Project Manual

25-27 Roof Renewal on Various Campuses
Washington State University

Program No. 1T01529
Issued 05/23/2025
Washington State University
Facility Services, Capital

CONDITIONS OF THE CONTRACT

00 50 00 Agreement between Owner and Design-Builder
Completion Deliverables Exhibit
00 72 00 General Conditions for Washington State Facilities Construction with Washington State University Amendments
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Attachment B: Tri-Cities BSEL Asbestos Free Certification
Attachment C: Washington Building Good Faith Hazardous Material Survey
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25-27 Roof Renewal on Various Campuses

Agreement between Owner and Design-Builder

(Cost-Plus Fee with a Guaranteed Maximum Price)

This AGREEMENT is made by and between the following parties, for design and construction services, in connection with the Project identified below.

OWNER: Washington State University
c/o Facilities Services, Capital
P.O. Box 641150
Pullman, WA 99164-1150

DESIGN-BUILDER: [To be determined]

PROJECT: 25-27 Roof Renewal on Various Campuses
Multiple Addresses Across All Campuses

In consideration of the mutual covenants and obligations contained herein, Owner and Design-Builder agree as set forth herein.

Article 1
The Work of the Design-Build Contract

1.1 Design-Builder to fully execute the Work. Design-Builder will fully execute the entire Work, including design and construction services, in strict accordance with the Contract Documents, and will provide all material, equipment, tools, labor, and design services necessary to timely complete the Work described in and reasonably inferable from the Contract Documents, except to the extent specifically indicated to be the responsibility of others.

1.2 Design-Builder to further Owner's interests. Design-Builder accepts the relationship of trust and confidence established by the Design-Build Contract and covenants with Owner to cooperate with Owner and others involved with the Project and to exercise Design-Builder's best skill and judgment; to furnish efficient, professional and competent design services and construction administration, management and supervision with sufficient quantities of fully qualified, competent and experienced personnel; and to perform the Work in an expeditious and economical manner consistent with Owner's interests. The parties will endeavor to promote harmony, cooperation and mutual respect among Project participants to the fullest extent possible in order to further the success of the Project and to effect prompt and successful completion of the Project within the requirements of the Contract Documents, the Contract Time and the Guaranteed Maximum Price (or "GMP").

Article 2
Contract Documents

2.1 The Contract Documents. The "Contract Documents" form the "Design-Build

Contract." The Contract Documents consist of this Agreement (Agreement between Owner and Design-Builder or the "Agreement"); any attached Exhibits and other documents listed in the Contract Documents; the General Conditions; other documents listed in Article 13 of this Agreement; and written modifications, amendments and Change Orders to the Design-Build Contract issued after execution of this Agreement. If authorized representatives of both parties execute the Agreement, the Design-Build Contract is effective as of the date of first signature.

2.2. The Design-Build Contract is a complete and integrated agreement. The Design-Build Contract represents the entire, complete, and integrated agreement between the parties and supersedes prior negotiations, representations or agreements, either written or oral. No oral representations or other agreements have been made by the parties except as specifically established in the Design-Build Contract.

2.3 The Design-Build Contract is between only Owner and Design-Builder. The Design-Build Contract will not be construed to create a contractual relationship of any kind between any Persons other than Owner and Design-Builder.

2.4 General Conditions modified. The General Conditions and Division 01 define the term "A/E" and identify certain responsibilities of the A/E. In the Design-Build Contract, however, Design-Builder retains the A/E and is responsible for both design and construction of the Work. The following provisions of the General Conditions are hereby modified:

1.01B	A/E does not represent Owner.
1.01K	The Contract Time is defined in Section 4.2
1.02.1	Signed Agreement includes Design-Builder's final Proposal and presentation materials.
2.06A	The builder's risk insurance will cover the interests of Design-Builder's A/E.
2.06B	A/E's services and expenses may not be covered. Refer to policy.
3.04B	Replace "A/E" with "Owner's consultants."
4.01C	Design-Builder to report discrepancies to Owner.
4.01F	Questions to be referred to Owner.
4.02C	Final Project Record to be submitted to Owner.
4.03	Submittals will be submitted to and reviewed by Owner, not A/E. Replace "A/E" with "Owner" throughout.
4.03E	Design-Builder and Owner may agree on the number of copies of Submittals to be submitted to Owner. If no such agreement is reached, Design-Builder will submit five (5) copies.
4.05	See Article 11 of this Agreement related to the instruments of service. Article 11 of this Agreement will apply in the event of any inconsistency with Section 4.05 of the General Conditions.
5.07A	Replace "A/E" with "Owner's consultants."
5.07H	Replace "A/E" with "Owner's consultants."
5.13A	Owner must approve substitutions. Replace "A/E" with "Owner."
5.22	Design-Builder has no obligation under this Agreement to defend, indemnify, or hold harmless Design-Builder's A/E.
6.06A	Completion of the Contract Work for purposes of RCW Chapters 39.08 and 60.28 will occur upon Final Acceptance.

10.04 Strike “or A/E.”
10.08 Strike “A/E and Contractor.”

Article 3
Definitions

3.1 Terms, words and phrases to have ordinary meanings. Terms, words and phrases used in the Contract Documents will have the meanings given them in this Agreement and in the General Conditions or, if not defined, in a manner consistent with construction and design industry standards. In the event of any inconsistency in such definitions, the definitions in this Agreement will control.

3.2 Confirmation of GMP Funding. Not Used

3.3 Design-Builder. “Design-Builder” is the Person identified as such in the Agreement and identified as “Contractor” in the General Conditions. The terms “Design-Builder” and “Contractor” are used interchangeably to identify the Person that is a party to this Agreement. Design-Builder must be licensed, bonded, and insured as a contractor, and legally permitted to do business, in the State of Washington. Design-Builder’s authorized representative, including its Designated Representative, will be authorized to act on Design-Builder’s behalf with respect to the Project.

3.4 Design-Builder’s A/E. “Design-Builder’s A/E” or “A/E” is a Person lawfully licensed to practice architecture or engineering in the State of Washington that has a direct contract or employment relationship with Design-Builder to perform design, architecture and/or engineering services for all or a portion of the Work. Although Design-Builder’s A/E is referred throughout the Contract Documents as if singular in number, Design-Builder’s A/E may be multiple Persons. The “Design-Builder’s A/E” means Design-Builder’s A/E or Design-Builder’s A/E’s authorized representative, and includes any architect or engineer contracted or employed by Design-Builder to perform design Work for the Project.

3.5 Transition to Sustainable Occupancy Program Payment (TSO Program Payment). Not Used

3.6 Transition to Sustainable Occupancy Reviews (TSO Reviews). Not Used

3.7 Post-Completion Performance Period. Not Used

3.8 Project Execution Plan. The Project approach proposed by Design-Builder in response to Owner’s Request for Proposals. Following execution of this Agreement, the Project Execution Plan may be adjusted by mutual agreement.

3.9 The Project Criteria. The Project Criteria may consist of preliminary engineering and architectural drawings and other information intended to convey Owner’s initial concepts for the facility, the expected programmatic, functional and operational elements of the facility, and the expected net and gross areas of the buildings. Any drawings and other information included with the Project Criteria are not for construction but will be considered and used by Design-Builder to complete the design and prepare Construction Documents for the Project. Design-Builder or its A/E will be the designer of record for the Project, will take full responsibility for the

design, and will produce Construction Documents for permit submission, Owner acceptance, Subcontractor procurement, and construction.

3.10 Design Review Packages. The Project will have regular in-progress design reviews and Design-Builder will submit Design Review Packages to Owner at the (1) Project Confirmation, (2) Detailed Design Documents, and (3) Construction Documents milestones as agreed in the Project Execution Plan developed during project confirmation to convey Design-Builder's plan and design for the Work, consistent with the Contract Documents, including the Project Criteria. When accepted by Owner, these Design Review Packages will establish Project baselines from which future submissions will be evaluated.

Each Design Review Package will be complete upon the earlier of (1) Owner's written acceptance of the package or (2) termination of the Design-Build Contract. Owner is obligated to pay no more than the amount authorized through each Design Review Package milestone and has no obligation to authorize Design-Builder to proceed further with design or construction under the Agreement if it does not accept any of Design-Builder's Design Review Packages.

3.10.1 Project Confirmation. The point in time where the intent of the Project, concept, program, goals, priorities, GMP, and schedule have been established. The GMP identified in this Agreement will be reaffirmed by Owner and Design-Builder through the Project Confirmation submittal accepted by Owner. Design-Builder's submittal will identify any changes to the Project Execution Plan since execution of this Agreement.

3.10.2 Detailed Design Documents. The point in time where the design has been sufficiently completed, to the satisfaction of Owner, to identify Design-Builder expected scope of Work, appropriate trade partners are engaged, and cost, scope, deviation log and schedule have been defined. The GMP identified in the accepted Project Confirmation submittal will be reaffirmed by Owner and Design-Builder through the Detailed Design Documents submittal accepted by Owner. Design-Builder's submittal will also identify any changes to the Project Confirmation since acceptance of that submittal.

3.10.3 Construction Documents. "Construction Documents" are prepared by Design-Builder and accepted by Owner to convey Design-Builder's final design for the Work, consistent with the Contract Documents and permit requirements. The Construction Documents are identified in the General Conditions and other Contract Documents as Drawings and Specifications but do not include shop drawings or other Submittals. When complete, Owner will accept Design-Builder's Construction Documents Design Review Package, which will identify the final design for the Work. The Construction Documents Design Review Package may be accepted by Owner in phases. The GMP identified in the accepted Detailed Design Documents submittal will be reaffirmed by Owner and Design-Builder through the Construction Documents submittal accepted by Owner. Design-Builder's submittal will also identify any changes to the Detailed Design Documents since acceptance of that submittal.

Article 4
Notice to Proceed and Substantial Completion

4.1 Notice to Proceed. Notices to Proceed will be issued by Owner. Owner may issue separate Notices to Proceed for Design-Builder's design phase services and for construction.

4.2 Contract Time. The Contract Time will be measured from the effective date of the Agreement date to the contractual date of Substantial Completion established in Section 4.3, subject to adjustments as provided in the Contract Documents. Time is of the essence in completion of the Work.

4.3 Substantial Completion and Final Completion. Subject to adjustment and confirmation at Project Confirmation, Design-Builder will achieve Substantial Completion of the Contract by May 30, 2027 subject to adjustments as provided in the Contract Documents and will achieve Final Completion not later than 60 Days thereafter. Design-Builder represents to Owner that the Contract Time is adequate for full performance of the Work. Design-Builder will also achieve any interim milestones and phasing requirements set forth in the Contract Documents.

4.3.1 Design-Build and Owner shall agree to subproject milestone substantial completion(s) at Project Confirmation, which will begin warranties for the Work of the subproject. Such subproject milestone substantial completion(s) shall not be subject to Liquidated Damages unless specifically set forth in this Agreement.

4.4 Post-Completion Performance Period. Not Used

4.5 Liquidated damages. Owner will assess, and Design-Builder will be responsible for, liquidated damages in the amount of four-hundred fifty dollars and twenty-eight cents ($450.28) per Day for each Day beyond the contractual date for Substantial Completion that Substantial Completion is not timely achieved, and an additional four-hundred fifty dollars and twenty-eight cents ($450.28) per Day for each Day beyond the time period established in Section 4.3 that Final Completion of the entire Work is not achieved. Design-Builder and Owner agree that any liquidated damages established by this Agreement are not penalties and are a reasonable estimation of actual damages to Owner, as of this date of Agreement, based on the inherent uncertainty and difficulty in calculating and quantifying damages caused by delays in the construction of university facilities.

Article 5
Design-Builder's Design and Preconstruction Services

During the design and preconstruction phase, Design-Builder will perform services as provided in this Agreement and the Contract Documents.

5.1 Design Review Package Obligations.

5.1.1 Design-Builder is not authorized to proceed with, and Owner is not required to pay for, design or construction beyond each Design Review Package milestone until Owner provides written acceptance of Design-Builder's submittal.

5.2.2 If Owner and Design-Builder are unable to finalize any Design Review Package, Owner may terminate the Design-Build Contract as provided in the Contract Documents. If Design-Builder does not provide a Design Review Package submittal acceptable to Owner or otherwise declines or is unable proceed, Design-Builder will receive no payment beyond amounts already paid. In addition, Owner will have the right to seek damages from Design-Builder in accordance with the dispute resolution procedures set forth in the Contract Documents.

5.3 Design Obligations.

5.3.1 During the design and preconstruction phase, Design-Builder will advise and work with Owner and its representatives to make recommendations for alternate or substitute technologies, construction techniques, methods and practices based on maintainability and durability as well as cost savings, time saving and/or other related efficiencies.

5.3.2 The agreements between Design-Builder and Design-Builder's A/E, other design professionals retained by Design-Builder, and Subcontractors will be in writing. These agreements, including services with respect to this Project, will be promptly and fully disclosed to Owner upon Owner's written request after the effective date of the Design-Build Contract.

5.3.3 Design-Builder will be responsible for ensuring that the Construction Documents are in accordance with applicable laws, statutes, ordinances, building codes, rules and regulations, and lawful orders of public authorities, including, but not limited to, the latest adopted versions of:

.1 International Building Code with State of Washington Administrative Code Amendments

.2 International Mechanical Code with State of Washington Administrative Code Amendments

.3 Uniform Plumbing Code with State of Washington Administrative Code Amendments

.4 International Energy Conservation Code-Commercial with State of Washington Administrative Code Amendments

.5 International Fire Code with State of Washington Administrative Code Amendments

.6 National Electric Code with Washington State Administrative Code Amendments – Regulated by State of Washington Department of Labor and Industries

.7 ADA Title II for Public Buildings in conjunction with the IBC and ICC A-117.1

.8 ASME A17.1 with State of Washington Administrative Code Amendments for elevators – Regulated by State of Washington Department of Labor and Industries

.9 State of Washington Safety Codes for workers per Washington Administrative Code

.10 Asbestos regulations per Washington Administrative Code

5.3.4 Owner and Design-Builder will mutually agree on a schedule for in-progress design meetings. The design meetings will address the requirements for construction of the Project, including but not limited to draft drawings and other details that establish the quality levels of materials and systems proposed, and will identify any deviations from the Project Criteria, Proposal including the Project Execution Plan, or design documents included in a previously approved Design Review Package. During the design process, Design-Builder will document for Owner's benefit all decisions made. Design Review Packages will be authorized by written acceptance by Owner.

5.3.5 Not Used

5.3.6 Upon Owner's written authorization, Design-Builder, with the assistance of Owner, will prepare and file design documents, including Construction Documents, required to obtain necessary approvals of governmental authorities having jurisdiction over the Project.

5.3.7 Design-Builder will obtain from each of its design professionals, including Design-Builder's A/E, and will provide Owner with certifications with respect to the documents and services provided by these professionals (a) that, to the best of their knowledge, information and belief, the documents or services to which such certifications relate (i) are consistent with the Project Criteria and Proposal (unless specifically modified through an approved Design Review Package) and (ii) comply with applicable laws, ordinances, codes, rules and regulations governing the design of the Project; and (b) that Owner and its consultants will be entitled to rely upon the accuracy of the representations and statements contained in such certifications.

5.3.8 Design-Builder's design services will result in a Project design in accordance with the Contract Documents, including the Project Criteria, and suitable for its intended purpose. At the time of performance, Design-Builder's design professionals will be properly licensed in the State of Washington, equipped, organized and financed to perform the services. Each Person who performs the services will be experienced and qualified to perform the services he or she performs, and Owner will be entitled to rely upon any assistance, guidance, direction, advice or other services provided by any such Person.

5.3.9 Design-Builder will, at no cost to Owner, promptly and satisfactorily correct any of Design-Builder's design services that are defective or not in conformity with the requirements of the Design-Build Contract. The obligations of Design-Builder to correct defective or non-conforming design services will not in any way limit any other obligations of Design-Builder or other rights and remedies available to Owner under the Design-Build Contract or otherwise by law.

5.3.10 When the Contract Documents require or Design-Builder causes a Subcontractor of any tier to provide professional design services or certifications related to systems, materials or equipment, Design-Builder will cause design services or certifications to be provided by properly licensed design professionals and will ensure that all documents bear such design professional's written approval. Owner will be entitled to rely upon the adequacy, accuracy and completeness of the services, certifications or approvals performed by such design professionals.

5.4 Supplemental Preconstruction Obligations.

5.4.1 Design-Builder will include in the in-progress meetings with Owner such matters as procedures, progress, coordination, and scheduling of the Work. Design-Builder will actively and cooperatively advise Owner on proposed site use and improvements, selection of materials, and building systems and equipment. Design-Builder will also actively and collaboratively provide recommendations consistent with the Project requirements to Owner regarding constructability; availability of materials and labor; time requirements for procurement, installation and construction; phasing and site work planning; sequencing and scheduling for procurement, installation and construction; traffic planning; factors related to construction quality, maintainability and durability; and factors related to construction cost including, but not limited to, costs of alternative designs and materials, preliminary budgets, life-cycle data, and possible cost reductions.

5.4.2 Design-Builder will work with Owner to prepare a constructability plan for the Project to reduce cost, save time, improve quality, reduce risk and improve the overall process of Project delivery. Key objectives of the constructability program will include creation and maintenance of a well-planned, safe, effective, cooperative and mutually beneficial work environment for all participants. A primary objective of these efforts will be to ensure that the final Cost of the Work does not exceed the GMP and the Project is completed on time. Design-Builder will minimize adverse effects of labor or material shortages or delays; time requirements for procurement, installation and construction; and construction cost.

5.4.3 Design-Builder will perform site investigations, including but not limited to utility locates, to assist in development of the design and construction planning. Any investigations of hidden or subsurface conditions have been made only for purposes of developing the Project Criteria. The results of these investigations are available for the convenience of Design-Builder but they are not Contract Documents. There is no guarantee, express or implied, that the conditions indicated are representative of those existing throughout the site or that unforeseen developments may not occur. Design-Builder is solely responsible for interpreting the information and extrapolating beyond the testing location, including each individual boring, test pit or other location. Design-Builder will undertake any further investigation that Design-Builder believes necessary for design or construction.

5.4.4 Design-Builder will provide recommendations with regard to accelerated or fast-track scheduling, procurement, or phased construction. Design-Builder will take into consideration occupancy needs, cost reductions, cost information, constructability, provisions for temporary facilities and procurement and construction scheduling issues.

5.4.5 Design-Builder will maintain, for Owner's review and acceptance, and update at least monthly, a procurement schedule for long lead items. Design-Builder will expedite and coordinate the ordering and delivery of long lead materials. If Owner agrees to procure any items prior to the establishment of the GMP, such items will be identified in the Contract Documents and Owner will assign contracts for these items to Design-Builder. Thereafter, Design-Builder will accept responsibility for them.

5.4.6 Design-Builder will prepare an estimate of the Cost of the Work or the cost of program requirements using area, volume or similar conceptual estimating techniques for Owner's review and approval. Thereafter, Design-Builder will collaborate with Owner on cost estimates throughout the preconstruction phase as the design is completed, and will prepare detailed cost estimates with its Detailed Design Documents and Construction Documents Design Review Packages. Estimates will include increasing detail and refinement and allow for the further development of the design. Design-Builder will inform Owner when estimates of the Cost of the Work exceed the latest approved Project budget and make recommendations for corrective action. Design-Builder will also prepare other necessary cost studies, comparative estimates, and comparative schedules to evaluate alternatives and options.

5.4.7 Owner, Design-Builder, and their consultants may participate in value engineering prior to completion of the design. Changes may be proposed to the drawings as a result of these processes. Design-Builder will make changes requested by Owner after consultation with Design-Builder's A/E. At the completion of its review(s), Design-Builder will provide Owner with a formal record of its findings and recommendations. Value engineering will include selecting building systems, with final selection of systems to occur prior to completion of Construction Documents.

5.4.8 Design-Builder will prepare promptly following execution of this Agreement (and prior to submitting any Application for Payment) and periodically update an overall Project schedule consistent with the requirements of the Contract Documents. This schedule will identify all major Project milestones and coordinate and integrate Design-Builder's services with Owner's responsibilities. The Progress Schedule will include all major components of the Work; expected commencement and completion dates for the Work and for each Subcontractor; major milestones; dates for ordering and the delivery of major products, including those that are long lead; expected Submittal submission dates; occupancy requirements of Owner; and all other information required by the General Conditions and other Contract Documents. Design-Builder will be responsible for updating the Progress Schedule during construction as set forth in the General Conditions and other Contract Documents.

5.4.9 Design-Builder will prepare and submit a subcontracting plan to Owner that identifies Design-Builder's intended scopes of work, the timing of solicitation of Subcontractor bids and proposals, major coordination issues, and means to enhance the opportunity for local businesses to participate in performing the Work. Design-Builder will use its best efforts to develop Subcontractor interest in the Project and competition for each scope of work. Unless otherwise approved by Owner, Design-Builder will solicit at least three (3) bids or proposals for each component of the Work. Design-Builder will only self-perform Work when such Work is competitively bid by Design-Builder and Design-Builder can perform the Work at the lowest net cost to Owner.

Article 6
Design-Builder's Obligations During Construction

During the construction phase, Design-Builder will perform services as provided in this Agreement and the other Contract Documents, including Section 01 11 00, Summary of Work, and the General Conditions.

6.1 Owner to review and accept Construction Documents. Design-Builder will perform no construction Work prior to Owner's review and acceptance of Design-Builder's Construction Documents via one or more Construction Documents Design Review Submittal. Review and acceptance of Construction Documents by Owner is subject to the limitations of the Contract Documents and will not constitute an approval of Design-Builder's means and methods or a waiver or modification of any requirement of the Contract Documents.

6.2 Design-Builder to provide Submittals. Owner and Design-Builder will mutually agree on a schedule for Design-Builder to deliver Submittals for Owner review and comment. Owner will have at least fourteen (14) Days to review Submittals unless otherwise agreed. Design-Builder will perform no portion of the construction Work for which the Contract Documents require Submittals until Owner has accepted and taken action on each required Submittal in accordance with the procedure set forth in the Contract Documents. However, Submittals are not Contract Documents. Their purpose is to demonstrate for those portions of the Work for which Submittals are required the way that Design-Builder proposes to conform to the Contract Documents. Review and acceptance of Submittals by Owner is subject to the limitations of the Contract Documents and will not constitute an approval of Design-Builder's means and methods or a waiver or modification of any requirement of the Contract Documents. Design-Builder will resolve all Owner Submittal review comments prior to commencement of the Work.

6.3 Design-Builder to provide Project staff. Design-Builder will provide experienced staff through Final Completion consistent with or in excess of that specified in the Proposal. Design-Builder's Project staff will not be changed without the written permission of Owner. The staff will include necessary and appropriate design, construction management personnel and administrative staff, including, at a minimum, a qualified Project Manager, a full-time Superintendent, a full-time Project Engineer, a Contractor Quality Control ("CQC") Manager, a scheduler, and an estimator. Design-Builder's staff will be sufficient to ensure that:

.1 Responses to all correspondence are provided within seven (7) Days of receipt;

.2 Submittals are reviewed for completeness and forwarded to Owner within three (3) Days of receipt;

.3 Design-Builder's Project staff remains dedicated to the Project through Final Completion at no additional cost to Owner; and

.4 Responses, Notices, substantiation, Rejections, and Claims as required by Parts 7 and 8 of the General Conditions are provided to Owner within the time periods required by the Contract Documents.

6.4 Design-Builder to conduct meetings. Unless otherwise determined by Owner, Design-Builder will schedule and conduct weekly Project review meetings to discuss such matters as procedures, progress, coordination, scheduling, and status of the Work, and will prepare and promptly distribute written minutes from the meetings.

6.5 Design-Builder to actively manage and supervise Subcontractors. Design-Builder will coordinate and review and inspect the Work of Subcontractors. Design-Builder

will provide notification at regularly scheduled meetings of any major defects or deficiencies and recommend remedial action. Design-Builder will take the lead role in negotiating and resolving any disputes with Subcontractors and obtain Owner's concurrence or approval of all settlements before executing change orders with Subcontractors.

6.6 Progress reports. Design-Builder will record the progress of the Project. On a monthly basis, or otherwise as agreed by Owner, Design-Builder will submit with its Application for Payment written progress reports to Owner, showing percentages of completion and other information required by Owner. The reports will:

.1 Include information about Subcontractor buyout, as applicable.

.2 Identify variances between scheduled and probable completion dates for major components of the Work. Recommend action required to meet scheduled completion dates.

.3 Provide summary reports of each Progress Schedule update to document all significant changes and the reasons for them.

.4 Record in writing and by photographs the progress of the Project.

.5 Maintain and report a QC log.

.6 Document any outstanding questions and risks associated with delayed responses.

.7 List outstanding Submittals and risks associated with delayed responses.

.8 Describe the status of outstanding Contract Change Proposals and Change Proposal Requests, and any risks associated with delayed responses.

.9 List all unresolved issues and Claims.

.10 Identify the status of permits that Design-Builder is required to obtain or assist in obtaining.

Design-Builder will also keep, and make available to Owner with its monthly Application for Payment or more often as requested by Owner, a daily log containing a record for each Day of weather, Subcontractors working on the site, deliveries, Work accomplished, portions of the Work in progress, number of workers on site, identification of equipment on site, problems that might affect progress of the Work, accidents, injuries, and other information required by Owner. The information on the log does not constitute Notice of a potential or actual Claim to Owner.

Design-Builder will maintain, in good order and on a current basis, a record copy of all subcontracts, purchase orders, Addenda, Unilateral and Bilateral Change Orders, Submittals, inspection reports, maintenance and operating manuals and instructions, and Project Record. These records will be available to Owner, and, at completion of the Project, delivered to Owner.

6.7 Financial reporting and forecasting: Design-Builder will develop and maintain a system of cost control and accurate financial reporting capabilities during the Project, keep full and detailed records and accounts, and exercise such controls as necessary for proper financial management under this Agreement and to substantiate all costs incurred. At least monthly and as otherwise requested,

Design-Builder will report to Owner any variances between actual and estimated costs. Design-Builder's financial reporting will include but not necessarily be limited to:

.1 Subcontractor and supplier buyout status;

.2 Expenditures to date and forecasted costs to complete the Work (including projected savings or overruns) allocated by Schedule of Values line item with variances explained;

.3 Projected cash flow;

.4 Contingency use log;

.5 Change Order log (pending and/or approved Unilateral and Bilateral Change Orders); and

.6 Risk and issues log identifying estimated costs for each identified risk and issue.

6.8 Quality control and assurance and Owner's right to inspect the Work: Design-Builder will develop and submit an overall Quality Control and Assurance Plan administered by Design-Builder's CQC Manager to ensure that the Work is inspected by qualified members of Design-Builder's staff or third parties. The Quality Control and Assurance Plan must be acceptable to Owner. Owner expressly reserves the right to inspect any and all portions of the Work at any time during the Project. Design-Builder will provide access to the Work as needed by Owner or its representatives, including the use of scaffolding, platforms, or lifts. All corrections or observations noted by Owner will be logged by Design-Builder on a QC log for correction, tracking and documentation to the satisfaction of Owner. Neither Design-Builder nor its Subcontractors will intentionally install Work that does not meet applicable requirements.

6.9 Survey and layout obligations. Owner may provide survey benchmarks within or near the construction limits for the Project. Once benchmarks are established by Owner, it will be Design-Builder's responsibility to re-establish them if they are disturbed. Design-Builder will be responsible to Owner for general building layout from established benchmarks, for the detailed layout of individual Work, and for the coordination of Work between Subcontractors to ensure that no conflicts exist.

6.10 Special inspection and testing. Certain special inspection and testing may be provided by Owner per Section 01 45 23, Testing Laboratory Services. Design-Builder will provide inspectors and testers furnished by Owner adequate advance notice and timely and appropriate access to the Work.

Article 7
Design-Builder Obligations During the Post-Completion Performance Period

Not Used

Article 8
Contract Sum and Guaranteed Maximum Price

8.1 Contract Sum. Following execution of the Agreement, and to the extent funding has been approved, Owner will pay the Contract Sum to Design-Builder for Design-

Builder's performance of the Design-Build Contract. The Contract Sum is the sum of the Cost of the Work and Design-Builder's Fee; the Contract Sum will not exceed the GMP. The Contract Sum does not include Washington State sales tax due on progress payments on account of the Contract Sum.

8.2 Design-Builder's Fee. Design-Builder's Fee shall be a lump sum amount of to be determined ($TBD), which is calculated and fixed based upon the established GMP by multiplying to be determined percent (TBD%) times the estimated sum of the Cost of the Work. The Design-Builder's Fee covers all of Design-Builder's profit and home office overhead as well as all other costs not reimbursable under this Agreement, including but not limited to costs of principal participation, home office administrative support, taxes, financing costs, and profit. The insurance rates and bond premium used to calculate the GMP will not increase during the term of this Agreement. The fee for changed Work for Design-Builder and Subcontractors shall be as specified in the General Conditions. Design-Builder shall not separately mark-up such fee by the Design-Builder's Fee above.

8.3 Guaranteed Maximum Price. The sum of the Cost of the Work and Design-Builder's Fee for the Project, for all design and construction services required by the Contract Documents, is guaranteed by Design-Builder not to exceed the guaranteed maximum price of three-million and two-hundred seventy thousand dollars and zero cents ($3,270,000.00), subject to additions and deductions for changes in the Work as provided in the Contract Documents. The GMP may be adjusted by mutual agreement during the Project and is expected to be confirmed in writing by Owner and Design-Builder through Owner's written acceptance of each Design Review Package. Owner must approve explicitly in writing any changes to the GMP. The GMP includes by way of example and not limitation all design and construction Costs of the Work; all taxes except Washington State sales tax due on the Contract Sum; Design-Builder's contingency; any approved Allowances; all insurance, including liability and E&O coverage; overhead; and Design-Builder's Fee. Costs that would cause the GMP to be exceeded will be paid by Design-Builder without reimbursement by Owner.

8.3.1 Confirmation of GMP Funding. Not Used

8.3.2 TSO Program Payment. Not Used

8.3.3 Apprenticeship Utilization Requirements. Not Used

8.4 Contingency. The GMP includes all Design-Builder contingencies. The contingency is a sum established for Design-Builder's use to cover costs that are properly reimbursable as Cost of the Work but not the basis for a Change Order, such as, for example, design omissions, buyout error, scope gaps, failure of a Subcontractor of any tier, or expediting costs for critical materials. Design-Builder will use the contingency only with Owner's consent. Unused contingency will revert to Owner at Final Completion of the Project. For contingency within the GMP, Design-Builder will apply no additional fee for use of contingency.

8.5 Unit Prices. Any Unit Prices are as follows:

Description	Units	Price ($0.00)
None		

Unit Prices as set forth in the Contract Documents are "all in." They include all material, equipment, labor, delivery, installation, and Subcontractor costs, any overhead and profit not included in Design-Builder's Fee, and any other costs or expenses in connection with, or incidental to, the performance of that portion of the Work to which such Unit Prices apply.

8.6 Allowances. Allowances included in the GMP are as follows:

Allowance	Amount	Included Items
None		

A limited number of Allowances may be included in the GMP due to uncertainty in scope, price and/or quantity at the time this Agreement is executed. Whenever actual costs are more or less than an Allowance, the GMP will be appropriately adjusted. Design-Builder must provide Owner with written Notice of its intent to expend an Allowance amount (providing Owner with the opportunity to approve or reject the cost) before expending an Allowance amount.

8.7 Assumptions. Assumptions or qualifications, if any, on which the GMP is based, are:

Completion Deliverables Exhibit dated 5/23/2025
Project Execution Plan Exhibit dated TBD

8.8 Changes in the Work.

8.8.1 Owner may, without invalidating the Design-Build Contract, order changes in the Work consisting of additions, deletions or other revisions. Owner will issue such changes in writing.

8.8.2 Adjustments of the GMP on account of changes in the Work will be determined by the methods specified in the General Conditions.

8.8.3 In the event a Change Order is issued for a Change in the Work, Design-Builder and Subcontractors of any tier may only apply fee for changed Work, including overhead and profit, as specified in this Agreement.

8.8.4 It is the intent of the parties that when the GMP is set, the GMP will include all elements necessary to design, construct, and complete the Project in accordance with the Contract Documents, and that Change Orders adjusting the GMP will therefore not be necessary except in limited circumstances. Accordingly, the GMP will be adjusted only for the following events:

.1 Scope changes.

.2 Concealed or unknown conditions.

.3 Regulatory agency changes.

.4 Changes required by an inspector beyond those contained in regulations.

.5 Allowance adjustments.

8.8.5 Events for which the GMP will not be adjusted include but are not limited to:

.1 Gaps in coverage between Subcontractors, including self-performed Work by Design-Builder, that occur after the GMP is negotiated.

.2 An item indicated in the Contract Documents that was not picked up in the GMP.

.3 Errors, omissions, or ambiguities in the design documents, including Construction Documents, prepared by Design-Builder.

.4 Coordination inconsistencies between design disciplines that Design-Builder knew of, caused, or reasonably should have known of.

.5 Failure or bankruptcy of a Subcontractor.

.6 Escalation of materials, equipment or labor prices.

.7 Estimating errors.

.8 Expediting costs for critical materials.

.9 Costs related to Subcontractor charges that result from mistakes or omissions in Subcontractor buyout, or coordination issues between Subcontractors, or interference between Subcontractor and Design-Builder or among Subcontractors.

Article 9
Cost of the Work

9.1 Costs to be Reimbursed.

9.1.1 Definition. The term Cost of the Work will mean the actual costs reasonably and necessarily incurred by Design-Builder in the proper performance of the Work, without overhead, profit, mark-up or fee, and at rates not higher than the standard paid at the place of the Project except with prior consent of Owner. The Cost of the Work will include only items reimbursable as set forth in this Article 9. If any cost is subject to Owner's prior approval, Design-Builder will obtain this approval in writing prior to incurring the cost. Whenever the Contract Documents state that Design-Builder will perform any Work or incur any expense, it will be understood to mean, in the absence of language to the contrary, that the cost will be a Cost of the Work payable by Owner, not to exceed the GMP.

The following Sections identify the categories of costs to be reimbursed as Costs of the Work.

9.1.2 Construction and Supervision Labor Costs.

9.1.2.1 Wages of construction workers, including working foremen, directly employed by Design-Builder to perform the construction of the Work at the site or, with Owner's approval, at off-site locations in the performance of the Work. Wages of construction workers will not be less than the prevailing rate of wage required by RCW 39.12, "Prevailing Wages on Public Works."

9.1.2.2 Wages or salaries of Design-Builder's supervisory and administrative personnel pre-approved in writing by Owner when stationed at or away from the site, in expediting the production or transportation of materials or equipment required for the Work, but only for that portion of time required for the Work and directly involving the Project. The project superintendent, project manager, and estimator are included under this Section, regardless of whether they are or are not working from the field office, for that portion of their time spent working on the Project. Design-Builder will not bill Owner for wages or salaries of these supervisory and administrative personnel in excess of eight (8) hours per day and forty (40) hours per week.

9.1.2.3 Costs paid or incurred by Design-Builder for taxes, insurance, contributions, assessments and benefits required by law or collective bargaining agreements and, for personnel not covered by such agreements, customary annualized benefits such as sick leave, medical and health benefits, vacation, holidays and pensions, provided such costs are based on wages and salaries included in the Cost of the Work under Sections 9.1.2.1 through 9.1.2.3. Costs paid or incurred by Design-Builder for bonuses, stock options, deferred compensation, or discretionary payments to employees are not reimbursable Costs of the Work unless included in agreed burden rates. Owner and Design-Builder reserve the right to establish potential performance bonuses that can benefit Owner by reducing the overall cost of the Project.

9.1.2.4 The parties may establish fully burdened wage rates when establishing the GMP. Any agreed wage and burden rates are subject to Owner's audit and may be adjusted to reflect actual charges.

9.1.3 Subcontract Costs.

9.1.3.1 Payments made by Design-Builder to Subcontractors will be in accordance with the requirements of their subcontracts. The costs in any cost-plus subcontracts must conform to the requirements of this Article 9. Design-Builder will maintain a procedure for the review, processing and payment of Subcontractor payment applications. Design-Builder will verify the completeness of all Subcontractor payment applications and assemble and check all supporting documentation required by the Contract Documents or by the subcontracts, including receipt of all lien waivers and releases.

9.1.3.2 Payments made to subsidiaries or affiliates of Design-Builder must be approved by Owner. Owner expressly reserves the right to require Design-Builder to utilize independent Subcontractors rather than Design-Builder's subsidiaries or affiliates. Any Work subcontracted to a Design-Builder subsidiary or affiliate will be executed on a lump sum or cost-reimbursable basis as pre-approved by Owner.

9.1.4 Costs of Materials and Equipment Incorporated in the Completed Construction.

9.1.4.1 Costs, including transportation and storage, of materials and equipment incorporated or to be incorporated in the completed construction.

9.1.4.2 Costs of materials described in Section 9.1.4.1 in excess of those actually installed to allow for reasonable waste and spoilage. Unused excess materials, if any, will become Owner's property at the completion of the Work or, at Owner's option, will be sold or returned to the supplier by Design-Builder. Any amounts realized from such

sales or returns will be credited to Owner as a deduction from the Cost of the Work.

9.1.5 Costs of Other Materials and Equipment, Temporary Facilities and Related Items.

9.1.5.1 Costs of consumables, including transportation, storage, installation, maintenance, dismantling and removal, of materials, supplies, temporary facilities, machinery, and equipment, that are provided by Design-Builder at the site and fully consumed in the performance of the Work.

9.1.5.2 Rental charges (not to exceed the local fair market rental costs) actually paid to unrelated third parties for temporary facilities, machinery, equipment, and hand tools not customarily owned by construction workers that are provided by Design-Builder at the site, and the costs of transportation, installation, minor repairs and replacements, dismantling and removal.

.1 Rates and quantities of equipment rented will be an itemization of the actual length of time that construction equipment necessary and appropriate for the Work is used at the site times the applicable rental cost. Rentals from Design-Builder or any entity in which Design-Builder or one or more of its owners has a direct or indirect ownership interest ("CM Equipment") will be pre-approved by Owner and separately accounted for. The rental cost for CM Equipment, as well as all other rental charges, will not exceed rates listed in the Rental Rate Blue Book by Data Quest, San Jose, California, or fair market rental costs, whichever are lower. If more than one rate is applicable, the best available rate will be utilized. The rates in effect at the time of the performance of the Work are the maximum rates allowable for equipment of modern design and in good working condition and include full compensation for furnishing all fuel, oil, lubrication, repairs, maintenance, and insurance. No gas surcharges will be charged. Equipment not of modern design and/or not in good working condition will have lower rates. Hourly, weekly, and/or monthly rates, as appropriate, will be applied to yield the lowest total cost. The total cost of rental allowed will not exceed the cost of purchasing the equipment outright. Owner, at its option, may direct Design-Builder to purchase tools and equipment specifically for the Project, which will become Owner's possession upon completion of the Work. If equipment is required for which a rental rate is not established by the Rental Rate Blue Book, an agreed rental rate will be established for the equipment, which rate and use must be approved by Owner prior to performing the Work. Design-Builder will separately account for rentals from itself or any Person in which Design-Builder or one or more of its owners has a direct or indirect ownership interest.

9.1.5.3 Costs of street cleaning, if any, and for removal and disposal of debris and rubbish from the site.

9.1.5.4 Cost of document reproductions, telephone service including long-distance telephone calls, Internet service, postage and parcel delivery charges, and other technology-related costs incurred by Design-Builder related to the Project and approved by Owner, including the cost of computers, other hardware, and software, as well as reasonable petty cash expenses of the Project.

9.1.5.5 the reasonable travel expenses, based upon most current Washington State travel per diem guideline rates, of Design-Builder's personnel incurred while traveling in connection with the Work with Owner's prior written approval and vehicle expenses which are not related to travel expenses but are assignable to the worksite for Design-Builder's personnel (Superintendent, Project Manager, Project Engineer and Quality Control Staff). Commuting-related travel is not reimbursable.

9.1.5.6 Costs of materials and equipment suitably stored off the site at a mutually acceptable location, if approved in advance by Owner and meeting the other requirements for payment of off-site materials and equipment.

9.1.6 Design and Other Consulting Services.

9.1.6.1 Compensation, including fees and reimbursable expenses, paid by Design-Builder for design and design-related consulting services required by the Contract Documents, including but not limited to services to produce Construction Documents and Submittals needed for permitting, final Owner approval, Subcontractor bidding purposes, and construction.

9.1.7 Miscellaneous Costs.

9.1.7.1 That portion of insurance and bond premiums that are directly attributed to the Design-Build Contract. Costs for self-insurance are not reimbursable without Owner's prior written approval.

9.1.7.2 Use or similar taxes (but not income or B&O taxes) imposed by a governmental authority that are related to the Work and for which Design-Builder is liable. Sales tax due on the Contract Sum will be paid by Owner with each progress payment.

9.1.7.3 Project-specific fees and assessments for permits, license fees, inspections that Design-Builder is required by the Contract Documents to pay, but not for the cost of any re-inspection fees or penalties.

9.1.7.4 Fees of laboratories for tests required of Design-Builder by the Contract Documents and not paid for by Owner, except those related to defective or non-conforming Work for which reimbursement is excluded by the Contract Documents.

9.1.7.5 Royalties and license fees paid for the use of a particular design, process or product explicitly required by the Contract Documents. The Cost of the Work will not include, and Design-Builder will be responsible for, any costs of defending suits or claims for infringement of patent rights, or payments made resulting from such suits or claims, resulting from any design or other Work provided by Design-Builder or its A/E, consultants, or Subcontractors of any tier.

9.1.7.6 The cost of warehousing pre-approved in writing by Owner for stored materials or equipment subsequently incorporated into the Work.

9.1.7.7 Costs incurred by Design-Builder in preparing and maintaining the Progress Schedule, scheduling plots, correspondence, and reports, so long as such costs are specific to this Project and were not incurred to prepare for, submit or prove a Claim.

9.1.7.8 Premium costs to provide a retainage bond for the project.

9.1.8 Other Costs and Emergencies.

9.1.8.1 Other costs reasonably incurred in the performance of the Work if and to the extent approved in advance and in writing by Owner.

9.1.8.2 Costs incurred in taking action to prevent threatened damage, injury or loss in case of an emergency affecting the safety of persons and property, as provided in the Contract Documents.

9.1.8.3 Cost of repairing or correcting, prior to Final Completion, damaged Work executed by Design-Builder, Subcontractors or suppliers, provided that such damaged Work was not caused by Design-Builder's negligence or failure to fulfill a specific responsibility of the Design-Build Contract, and only to the extent that the cost of repair or correction is not recoverable by Design-Builder from insurance, sureties, Subcontractors of any tier or suppliers. Design-Builder will take reasonable action to recover and, to the extent it has failed to recover, will assign its rights to pursue and collect to Owner upon request.

9.2 Costs Not to Be Reimbursed.

The Cost of the Work will not include:

9.2.1 Salaries and other compensation of Design-Builder's personnel stationed at Design-Builder's principal office or offices other than the site office, including all administrative and accounting personnel, except as specifically provided in Sections 9.1.2.

9.2.2 Expenses of Design-Builder's principal office and offices other than the site office.

9.2.3 Overhead and general expenses, except as may be expressly included in Section 9.1.

9.2.4 Design-Builder's capital expenses, including interest on Design-Builder's capital employed for the Work.

9.2.5 Rental costs of machinery and equipment, except as specifically provided in Section 9.1.5, or costs or losses resulting from lost, damaged or stolen machinery or equipment or negligent or improper use of machinery or equipment.

9.2.6 Costs due to the negligence or failure of Design-Builder, Subcontractors and/or suppliers or anyone directly or indirectly employed by any of them, or for whose acts any of them may be liable, to fulfill a specific responsibility of the Contract Documents.

9.2.7 Costs, other than costs included in Change Orders approved by Owner that would cause the GMP to be exceeded.

9.2.8 Penalties, extensions, fines, and re-inspection fees imposed by governmental entities to the extent caused by Design-Builder or a Subcontractor of any tier.

9.2.9 Safety costs expressed as a percentage or as any other calculated expression.

9.2.10 Legal, consultant, or claims-related expenses, except as specifically provided in Section 9.1.7.8.

9.2.11 Accounting in Design-Builder's main or home office.

9.2.12 Warehousing in Design-Builder's facility, except as approved under Section 9.1.7.6.

9.2.13 Daily commuting to the jobsite.

9.2.14 Business license(s).

9.2.15 Testing and inspection of rejected Work.

9.2.16 Home office data processing, software, hardware or computer-related costs.

9.2.17 Insurance or bonding costs except as specifically required and reimbursable under the Contract Documents.

9.2.18 Overtime wages unless pre-approved by Owner.

9.2.19 Any cost not specifically and expressly described in Section 9.1.

9.3 Discounts, Rebates and Refunds.

9.3.1 Trade discounts, rebates, refunds and amounts received from sales of surplus materials and equipment will accrue to Owner and Design-Builder will make provisions so that they can be obtained. If Design-Builder is offered discounts and/or rebates based upon prompt payment, Design-Builder will offer Owner the opportunity to take advantage of such discount and/or rebate, and if Owner makes prompt payment then Owner will only be charged the price as reduced by the discount and/or rebate. If Owner declines the opportunity, Design-Builder may keep any such discounts and/or rebates it achieves through its own prompt payment. If Design-Builder does not provide Owner the opportunity to participate then Design-Builder may only charge the net costs after consideration of discounts and rebates. Design-Builder will notify Owner in a timely manner of the availability of such cash discounts, rebates, or refunds.

9.3.2 Amounts that accrue to Owner in accordance with the provisions of Section 9.3.1 will be credited to Owner as a deduction from the Cost of Work.

9.4 Related Party Transactions.

9.4.1 For purposes of Section 9.4, the term "related party" will mean a parent, subsidiary, affiliate or other entity having common ownership or management with Design-Builder; any entity in which any stockholder in, or management employee of, Design-Builder owns any interest in excess of ten percent in the aggregate; or any Person or entity which has the right to control the business or affairs of Design-Builder. The term "related party" includes any member of the immediate family of any Person identified above.

9.4.2 If any of the costs to be reimbursed arise from a transaction between Design-Builder and a related party, Design-Builder will notify Owner of the specific nature of the contemplated transaction, including the identity of the related party and the anticipated cost to be incurred, before any such transaction is consummated or cost incurred. If Owner, after such notification, authorizes the proposed transaction, then the cost incurred will be included as a cost to be reimbursed, and Design-Builder will procure the Work, equipment, goods or service from the related party. If Owner fails to authorize the transaction, Design-Builder will procure the Work, equipment, goods or service from some Person or entity other than a related party according to the terms of the Contract Documents.

9.5 Accounting Records. Design-Builder and its Subcontractors will keep full and detailed records and accounts related to the Cost of the Work and exercise such controls as may be necessary for proper financial management under the Design-Build Contract and to substantiate all costs incurred. The accounting and control systems will be satisfactory to Owner. Owner will usually conduct, at a minimum, a pre-construction audit conference, an interim audit and a final audit of the Project, however Owner reserves the right to conduct an audit at any time. Owner and Owner's auditors will, during regular business hours and upon reasonable notice, be afforded access to, and will be permitted to audit and copy (including electronically), Design-Builder's and Subcontractors' original records and accounts, including complete documentation supporting accounting entries, books, ledgers, computerized records, daily reports, correspondence, instructions, drawings, receipts, subcontracts, Subcontractor's proposals, purchase orders, vouchers, invoices of Subcontractors of any tier, memoranda and other data relating to this Project or any Claim. Design-Builder and its Subcontractors will preserve these records for a period of six (6) years after Final Completion, or for such longer period as may be required by law.

Article 10
Payments

10.1 Applications for Payment.

10.1.1 The Contract Documents detail the requirements for Applications for Payment. Based upon Applications for Payment that Design-Builder submits to Owner, Owner will make progress payments to Design-Builder on account of the Contract Sum.

10.2 Progress Payments.

10.2.1 Subject to other provisions of the Contract Documents, the amount of each progress payment will be computed as follows and in accordance with Section 01 29 00, Applications for Payment:

.1 Take that portion of the GMP properly allocable to completed Work as determined by multiplying the percentage of completion of each portion of the Work by the share of the GMP allocated to that portion in the Schedule of Values. Pending final determination of the cost to Owner of changes in the Work, amounts not in dispute may be included as provided in the General Conditions unless Owner requires that actual cost records be provided;

.2 Add that portion of the GMP properly allocable to materials and equipment delivered and suitably stored at the site for subsequent incorporation in the completed construction (or, if approved in advance by Owner, suitably stored and insured off the site at a location agreed upon in writing);

.3 Add Design-Builder's Fee. Design-Builder's Fee will be prorated to equal the percentage of the Cost of the Work described in .1 and .2 as compared to the GMP;

.4 Subtract the aggregate sum of previous payments made by Owner;

.5 Subtract amounts, if any, for which Owner has withheld payment; and

.6 Subtract the statutory retainage of five percent (5%) of the above amount as a fund for the protection and payment of the claims of any Person arising out of the Work and the State of Washington with respect to taxes.

10.3 Final Accounting.

10.3.1 Following Substantial Completion and Final Completion, and when Design-Builder believes that all Work required by the Contract Documents has been fully performed, Design-Builder will deliver to Owner a final accounting of the Cost of the Work with its final Application for Payment.

10.3.2 Owner will review and report in writing on Design-Builder's final accounting within thirty (30) Days after delivery, provided that Owner is given prompt access to Design-Builder's records. Design-Builder will promptly make available at its office all accounting documents related to the Project. Based upon such Cost of the Work as Owner reports to be substantiated by Design-Builder's final accounting, and provided the other conditions of the Contract Documents have been met, Owner will notify Design-Builder in writing of Owner's intention to make final payment or to withhold payment. Owner's final accounting will not preclude or in any way limit Owner from exercising its rights of audit under other provisions of the Design-Build Contract.

10.3.3 If Owner reports that the Cost of the Work as substantiated by Design-Builder's final accounting to be less than claimed by Design-Builder, Design-Builder will be entitled to invoke the dispute resolution procedure of the Design-Build Contract with respect to the disputed amount. If Design-Builder fails to so initiate resolution of the dispute within the time specified in Article 8 of the General Conditions following Owner's delivery of the accounting to Design-Builder, the substantiated amount reported by Owner will become final and binding. Pending a final resolution pursuant to the Contract Documents, Owner will pay Design-Builder any undisputed amount determined by Owner to be due Design-Builder, not to exceed the GMP, in response to Design-Builder's final Application for Payment.

10.3.4 If, subsequent to final payment and at Owner's request, Design-Builder incurs costs in connection with the correction or completion of Work as described as reimbursable in Article 9, Owner will reimburse Design-Builder such costs and Design-Builder's Fee applicable thereto on the same basis as if such costs had been incurred prior to final payment, not to exceed the GMP.

10.4 Final Payment.

10.4.1 Final payment, constituting the entire unpaid balance of the Contract Sum, less retainage, will be made by Owner to Design-Builder no later than thirty (30) Days after Design-Builder has fully performed the Design-Build Contract and Final Completion has occurred (except for Design-Builder's responsibility to correct non-conforming Work discovered after final payment or to satisfy other requirements, if any, that extend beyond final payment), Design-Builder has submitted a final Application for Payment, and Owner has substantiated Design-Builder's final accounting.

10.4.2 Owner will release retainage to Design-Builder in accordance with RCW Chapter 60.28 and the Contract Documents.

10.5 Subcontractor Payment Reporting.

10.5.1 All contract payments are subject to compliance tracking using the Washington State Office of Minority & Women's Business Enterprise's business diversity management system, Access Equity (B2Gnow). Contractor and all subcontractors (regardless of certification) will register and report all progress payments made utilizing the system. The Owner reserves the right to withhold payments from the Contractor for non-compliance with this requirement.

Article 11
Instruments of Service

11.1 Instruments of service. The Drawings (including original Construction Documents), Specifications, materials, models, sketches, renderings, surveys, reports, and other documents, including those prepared as 3D electronic models, using CAD, and existing in other electronic formats, prepared or provided by Design-Builder's A/E and/or Design-Builder are instruments of service intended for use solely with respect to the Project. Owner will own any instruments of service prepared during the design, and will be permitted to retain copies, including reproducible and originally stamped copies, of all other instruments of service. For all instruments of service, including those prepared during the design, Owner is granted an unlimited and royalty free license to utilize the instruments of service to communicate about the Project, complete or expand the Project, correct any deficiencies, make any renovations or repairs to the Project, or for future projects other than the construction of another building.

Owner agrees to indemnify and hold Design-Builder harmless from any subsequent modification of the instruments of service by Owner and from Owner's use of the instruments of service on other projects not involving Design-Builder.

11.2 Design-Builder to convey instruments of service to Owner. Upon Owner's request if made during the Project or within five (5) years of Substantial Completion, each of Design-Builder's design professionals, including Design-Builder's A/E, will be contractually required to convey to Owner in whatever format Owner may designate that design professional's instruments of service for the completion, use, updating, modernizing, and maintenance of the Project, conditioned upon Owner's agreement

to indemnify and hold harmless the design professional as set forth above. Design-Builder's design professionals, including Design-Builder's A/E, will be permitted to remove all indications of their ownership and/or involvement from instruments of service provided in electronic format. Design-Builder will incorporate the requirements of this Section in all agreements with design professionals.

11.3 Submission of instruments of service does not waive rights. Submission or distribution of Design-Builder's instruments of service to meet official regulatory requirements or for similar purposes in connection with the Project will not be construed as publication in derogation of any rights reserved in this Section.

Article 12
Miscellaneous Provisions

12.1 Design-Builder's A/E. Design-Builder's A/E and other design professionals and consultants engaged by Design-Builder are listed below:

Name and Address	License Number	Relationship to Design-Builder	Other Information
To Be Determined			

12.2 Owner's Consultants. Consultants, if any, engaged directly by Owner, as well as their professions and responsibilities, are listed below:

Name and Address	Responsibilities to Owner	Other Information
None		Owner consultants identified in this table are not eligible to contract with or provide services to Design-Builder.

12.3 Separate Contractors. Separate contractors, if any, engaged directly by Owner and known by Owner as of the date of this Agreement, as well as their trades and responsibilities, are listed below:

Name and Address	Responsibilities to Owner	Other Information
None		

12.4 Designated Representatives.

12.4.1 Owner's Designated Representative, designated below, will be authorized to act on Owner's behalf with respect to the Project:

Kevin Poitra
Project Manager
Facilities Services, Capital

12.4.2 Design-Builder's Designated Representative, identified below, will be authorized to act on Design-Builder's behalf with respect to the Project:

_____
_____
_____

12.4.3 Neither Owner's nor Design-Builder's Designated Representatives will be changed without ten (10) Days' written Notice to the other party.

12.5 Interest. Payments due and unpaid under the Contract Documents will bear interest as specified by RCW 39.76, not to exceed the Bank of America prime plus two percent (2%) per annum.

12.6 Information to CPARB. Design-Builder and all Subcontractors will submit Project information required by the state Capital Projects Advisory Review Board (CPARB).

12.6.1 Design-Builder will submit to Owner the complete project specific diverse business inclusion plan summarized in Design-Builder's Proposal. At a minimum, the plan must address inclusion of underutilized firms as Subcontractors and suppliers including, but not limited to, the office of minority and women's business enterprises certified businesses, veteran certified businesses, and small business. Design-Builder will track and report to the public body and to the office of minority and women's business enterprises its utilization of the office of minority and women's business enterprises certified businesses and veteran certified businesses.

12.7 Insurance.

12.7.1 In addition to the insurance requirements imposed in the General Conditions and other Contract Documents, Design-Builder and Design-Builder's A/E, other design consultants, and any design-build Subcontractors of any tier will purchase and maintain for at least six (6) years after Substantial Completion Professional Liability/Errors and Omissions Liability insurance in an amount of not less than two million dollars ($2,000,000) per claim and annual aggregate (deductible of up to fifty thousand dollars ($50,000) permitted). If design consultants or design-build Subcontractors of any tier have a contract value of less than two million dollars ($2,000,000), they may purchase and maintain for at least six (6) years after Substantial Completion Professional Liability/Errors and Omissions Liability insurance in an amount of not less than one million dollars ($1,000,000) per claim and annual aggregate (deductible of up to fifty thousand dollars ($50,000) permitted) in lieu of the requirements above. Design consultants or design-build Subcontractors of any tier whose contract value is greater than two million dollars ($2,000,000.00) but would like the reduced Professional Liability/Errors and Omissions Liability insurance requirements must receive Owner's written approval. Design-Builder, Design-Builder's A/E, other design consultants, and any design-build Subcontractors of any tier will promptly notify Owner of any material changes to, interruption of, or termination of this insurance, and will immediately procure replacement coverage. Design-Builder, Design-Builder's A/E, other design consultants, and any design-build Subcontractor of any tier will either maintain active policy coverage or secure an extended reporting period, providing coverage for claims first made and reported to the insurance company within six (6) years of Substantial Completion or termination

of the Work under the Contract Documents, whichever occurs first.

12.8 Payment and performance bonds. Payment and performance bonds will be provided by Design-Builder. The amounts of such payment and performance bonds will equal or exceed the GMP plus Washington State sales tax.

Article 13
Enumeration of the Contract Documents

13.1 The Contract Documents. The Contract Documents, except for modifications issued after execution of this Agreement, are enumerated as follows:

13.1.1 This executed Agreement, any attached Exhibits and other documents listed in this Agreement.

13.1.2 The General Conditions and any Supplementary Conditions of the Design-Build Contract.

13.1.3 Owner's Project Criteria.

13.1.4 The Addenda, if any, are as follows:

Number	Date	Pages

13.1.7 Design-Builder's Proposal including the Project Execution Plan dated TBD, and Statement of Qualifications dated TBD (together, the "Proposal"), to the extent consistent with or which represent enhancements to Owner's Project Criteria. Design-Builder's submission and identification of proposed design features to Owner are to be provided by Design-Builder within the GMP. Proposal and Construction Documents prepared by Design-Builder and accepted by Owner in accordance with the Contract Documents. Acceptance by Owner of each of the following Design Review Packages will establish baseline Construction Documents from which future submissions will be evaluated:

.1 Project Confirmation Submittal

.2 Detailed Design Documents Submittal

.3 Construction Documents Submittal

All Submittals will include updated deviation log(s) noting variances from previous Submittals, proposal criteria and standards for review and approval.

13.1.8 Other documents ("Exhibits"), if any, forming part of the Contract Documents are as follows:

Project Manual dated May 23, 2025
WSU Request for Qualifications dated May 23, 2025
WSU Request for Proposals dated July 2, 2025
Department of Labor and Industries Prevailing Wage Rates.

OWNER:	**DESIGN-BUILDER:**
WASHINGTON STATE UNIVERSITY	**FIRM NAME**
	WA CONTRACTOR LICENSE NUMBER
(Signature) (Date)	(Signature) (Date)
(Printed Name) Associate Vice President Facilities Services	(Printed Name) (Title)

END OF SECTION 00 50 00

COMPLETION DELIVERABLES EXHIBIT
25-27 Roof Renewal on Various Campuses

This Attachment lists the deliverables specific to Design-Build required in addition to (or specifically altering) the established deliverables of the completion milestones of the Contract Documents.

Substantial Completion	
	Provide a Substantial Completion Submittal inclusive of all documentation required to achieve Substantial Completion as described in the Agreement, the General Conditions and Section 01 70 00. In additional, Design-Builder shall also provide:
	1. Record of Design-Builder's A/E Certification of review of the draft O&M Manual.
	2. Scheduled prior and submitted upon Substantial Completion provide Owner with the A/E developed punch list inspection report. Architect of record and Engineer of record must conduct the punchlist inspection accompanied by Owner's Repesentative.
Final Completion	
	Provide a Final Completion Submittal inclusive of all documentation required to Achieve Final Completion as described in the Agreement, the General Conditions and Section 01 70 00. In addition, Design-Builder shall also provide:
	1. In lieu of the Project Record as described in 00 72 00, Article 4.02, Design-Builder shall maintain the Project Record electronically in Bluebeam or approved equivalent. Design-Builder shall upon Final Completion provide a hyperlinked PDF that includes tracked changes showing all changes to the Project Documents throughout the project, and is bookmarked for all divisions.
	2. Design-Builder shall compile a final Conformed Record Drawing with revision date in native format, as a converted CAD sheet set in DWG format, as a text searchable PDF format, one no larger than 30" X 42" paper set drawing, and one set of 4-mil single sided Mylar Drawings no larger than 30" X 42". For the CAD drawings: Adhere to the National CAD Standars. Do not provide multiple tab layout in a a single file. Bind all .xrefs prior to submitting. Purge all files prior to submission. Must be viewable in native format without any add-ons.
	3. Provide an Excel or CSV drawing index.
	4. Provide any additional surveys or geotechnical reports obtained by Design-Builder.
	5. Provide a minimum of 2 Final O&M Manuals per the requirements of Section 01 78 39, as well as a text searchable PDF.
Final Acceptance	
	Provide a Final Acceptance Submittal inclusive of all documentation required to Achieve Final Acceptance as described in the Agreement, the General Conditions and Section 01 70 00.
Retention Release	
	No deliverables required.

End of Attachment Completion Deliverables Exhibit

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WSU amendments to the Washington State Facility Construction
General Conditions are identified by a bar on the right hand side of modified paragraphs

PART 1 - GENERAL PROVISIONS

1.01 DEFINITIONS

A. "Application for Payment" means a written request submitted by Contractor to Owner for payment of Work completed in accordance with the Contract Documents and approved Schedule of Values, supported by such substantiating data as Owner may require.

B. "Architect," "Engineer," or "A/E" means a person or entity lawfully entitled to practice architecture or engineering, representing Owner within the limits of its delegated authority.

C. An "Allowance" is an amount included in the Contract Sum for a stated part of the Work that is not fully defined and/or quantified at the time the Contract Sum is established. When that part of the Work is adequately defined and/or quantified, the Contract Sum will be adjusted to account for the difference between the Allowance and the actual cost of the item. Following the adjustment, that part of the Work will no longer be an Allowance item. Although not capitalized in Section 5.02B, "allowance" shall mean "Allowance."

D. "Change Order" means a written instrument signed by Owner and Contractor stating their agreement upon all of the following: (1) a change in the Work; (2) the amount of the adjustment in the Contract Sum, if any, and (3) the extent of the adjustment in the Contract Time, if any.

E. "Claim" means Contractor's exclusive remedy for resolving disputes with Owner arising out of or relating to the Contract Documents or the breach thereof or requesting an adjustment in the Contract Sum or Contract Time, as more fully set forth in Part 8. As used in the Contract Documents, the exclusive meaning of "equitable adjustment" is the ability of Contractor to follow the contractual dispute resolution process in Part 8, including the requirement for submitting a timely Notice, substantiation, and Claim.

F. The "Contract" is the agreement between Owner and Contractor and is formed by the Contract Documents. The Contract represents the entire and integrated agreement between Owner and Contractor and supersedes prior negotiations, representations or agreements, either written or oral.

G. "Contract Award Amount" is the sum of the Base Bid and any accepted Alternates, if any, for Design-Bid-Build projects and is the accepted initial Guaranteed Maximum Price for Design-Build and GC/CM projects.

H. "Contract Documents" means the General Conditions, modifications to the General Conditions, Supplemental Conditions, Agreement, Drawings and Specifications, and all addenda and modifications thereof.

I. "Contract Sum" is the total amount payable by Owner to Contractor for performance of the Work in accordance with the Contract Documents, including all taxes imposed by law and properly chargeable to the Work, except Washington State sales tax.

J. "Contract Time" is the number of Days or other time period allotted in the Contract Documents from the Notice to Proceed for achieving Substantial Completion of the Work.

K. "Contractor" means the person or entity who has agreed with Owner to perform the Work in accordance with the Contract Documents.

L. "Day(s)" means calendar day(s) unless otherwise specified.

M. "Drawings" are the graphic and pictorial portions of the Contract Documents showing the design, location, and dimensions of the Work, and may include plans, elevations, sections, details, schedules, and diagrams.

N. "Final Acceptance" means the written acceptance of the Work by Owner, as more fully set forth in Section 6.08B.

O. "Final Completion" means that the Work is fully and finally complete in accordance with the Contract Documents and Contractor has submitted its final Application for Payment, as more fully set forth in Section 6.09A.

P. "Force Majeure" means those acts entitling Contractor to request an equitable adjustment in the Contract Time, as more fully set forth in paragraph 3.05A.

Q. "Notice" means a written notice which has been delivered in person to the individual or a member of the firm or entity or to an officer of the corporation for which it was intended or, if delivered or sent by registered or certified mail, to the last business address known to the party giving notice. Although not capitalized in the following provisions, "notice" shall mean "Notice" in Sections 3.03B, 3.03C, 3.06A, 5.01D, 5.02C, 5.03, 5.09A, 5.10A, 5.15A, 5.16F, 5.17, 9.01A, 9.02A, and 9.02B.

R. "Notice to Proceed" means a written Notice from Owner to Contractor that permits pre-construction and construction activities to commence upon specified terms and defines the date on which the Contract Time begins to run.

S. "Owner" means the Washington State University Board of Regents, which has the authority to enter into, administer, and/or terminate the Work in accordance with the Contract Documents. Owner shall designate in writing a Representative who shall have authority to bind Owner with respect to all matters requiring Owner's approval or authorization. A/E does not have such authority.

T. "Person" means a corporation, partnership, business association of any kind, trust, company, or individual.

U. "Prior Occupancy" means Owner's use of all or parts of the Project before Substantial Completion, as more fully set forth in Section 6.08A.

V. "Progress Schedule" means a schedule of the Work, in a form satisfactory to Owner, as further set forth in Section 3.02.

W. "Project" means the total construction of which the Work performed in accordance with the Contract Documents may be the whole or a part and which may include construction by Owner or by separate contractors.

X. "Project Record" means the separate set of Drawings and Specifications as further set forth in paragraph 4.02A.

Y. "Schedule of Values" means a written breakdown allocating the total Contract Sum to each principal category of Work, in such detail and format as requested by Owner.

Z. "Specifications" are that portion of the Contract Documents consisting of the written requirements for materials, equipment, construction systems, standards and workmanship for the Work, and performance of related services.

AA. "Subcontract" means a contract between Contractor and a Subcontractor for the purpose of obtaining supplies, materials, equipment, work or services of any kind for or in connection with the Work. Although not capitalized in the following provisions, "subcontract" shall mean "Subcontract" in Sections 5.10A, 5.20E, 9.01B, and 9.02B.

BB. "Subcontractor" means any Person of any tier, other than Contractor, who agrees to furnish or furnishes by contract with, or through Contractor, any supplies, materials, equipment, or services of any kind in connection with the Work. The term "Subcontractor" does not include a separate contractor or subcontractors of a separate contractor. Although not capitalized in the following provisions, "subcontractor" shall mean "Subcontractor" in Sections 5.04B, 5.04C, 5.04G, 5.20A, and 5.21B.

CC. "Substantial Completion" means that stage in the progress of the Work (or portion of the Work designated and approved by Owner) when the construction is sufficiently complete, in accordance with the Contract Documents, so that Owner can fully occupy or utilize the Work (or portion designated by Owner) for its intended use, as more fully set forth in Section 6.07. There may be separate dates of Substantial Completion specified in the Contract Documents for various phases or portions of the Work.

DD. "Work" means the construction and services required by the Contract Documents, and includes, but is not limited to, labor, materials, supplies, equipment, services, permits, and the manufacture and fabrication of components, performed, furnished, or provided in accordance with the Contract Documents. Although not capitalized in the following provisions, "work" shall mean "Work" in Sections 3.02D, 5.04B, 5.04C, 5.07D, 5.12A, 6.02 and 7.02A.

EE. A "Work Directive" ("WD") is a binding written order prepared by Owner that directs Work prior to total agreement on adjustment, if any, in the Contract Sum or Contract Time, or both.

FF. "Work Site" means the space identified and circumscribed on construction documents. The work site is controlled by the Contractor and the Contractor is responsible for compliance to regulatory requirements within the circumscribed area. Changes to the work site shall be submitted by Contractor and approved by Owner.

1.02 ORDER OF PRECEDENCE

Any conflict or inconsistency in the Contract Documents shall be resolved by giving the documents precedence in the following order, with a revision to a Contract Document having precedence over the original document and a later document having precedence over an earlier document:

1. Signed Agreement, with any Change Orders having precedence.

2. Supplemental Conditions.

3. Modifications to the General Conditions.

4. General Conditions.

5. Specifications and Drawings. The Specifications and Drawings are complementary and shall have equal precedence. Thus, anything mentioned in the Specifications but not shown on the Drawings, or shown on the Drawings but not mentioned in the Specifications, shall be of like effect as if shown or mentioned in both. If there is any inconsistency between the Specifications and Drawings, Contractor will make an inquiry to Owner to determine how to proceed. Unless otherwise directed, Contractor will provide the better quality or greater quantity of any Work or materials, as reasonably interpreted by Owner, at no change in the Contract Sum or Contract

Time. In case of conflict within the Specifications, provisions in Division 1 shall take precedence over provisions of any other Division. In case of conflict within the Drawings, large scale Drawings shall take precedence over small scale Drawings.

1.03 EXECUTION AND INTENT

Contractor Representations: Contractor makes the following representations to Owner:

1. Contract Sum and Contract Time reasonable: The Contract Sum is reasonable compensation for the Work and the Contract Time is adequate for the performance of the Work, as represented by the Contract Documents;

2. Contractor familiar with project: Contractor has carefully reviewed the Contract Documents, visited and examined the Project site, become familiar with the local conditions in which the Work is to be performed, and satisfied itself as to the nature, location, character, quality and quantity of the Work, the labor, materials, equipment, goods, supplies, work, services and other items to be furnished and all other requirements of the Contract Documents, as well as the surface and subsurface conditions and other matters that may be encountered at the Project site or affect performance of the Work or the cost or difficulty thereof;

3. Contractor financially capable: Contractor is financially solvent, able to pay its debts as they mature, and possesses sufficient working capital to complete the Work and perform Contractor's obligations required by the Contract Documents; and

4. Contractor can complete Work: Contractor is able to furnish the plant, tools, materials, supplies, equipment and labor required to complete the Work and perform the obligations required by the Contract Documents and has sufficient experience and competence to do so.

PART 2 - INSURANCE AND BONDS

2.01 CONTRACTOR'S LIABILITY INSURANCE

General insurance requirements: Prior to commencement of the Work, Contractor shall obtain all the insurance required by the Contract Documents and provide evidence satisfactory to Owner that such insurance has been procured, including but not limited to (1) Certificates of Insurance on ACORD Form 25, and/or ACORD Form 27 or their equivalents, and which shall list any applicable self-insured retentions, (2) the actual costs (expressed as a percentage) of Contractor's liability insurance under Section 2.01A.1 below, (3) applicable endorsements evidencing proof of compliance with the requirements listed below, (4) evidence of State Workers' Compensation coverage, and (5) a copy of any builder's risk policy required by the Contract Documents. All policies, endorsements and certificates must be signed copies and shall contain a provision that policies will not be cancelled without first giving thirty (30) days (or in the event of non-payment of premium, ten (10) days) prior written Notice to Owner. Contractor shall furnish to Owner copies of any subsequently issued endorsements amending, modifying, altering or restricting coverage terms or limits. Review of Contractor's insurance by Owner shall not relieve or decrease the liability of Contractor. Companies writing the insurance to be obtained by Part 2 shall be licensed to do business under Chapter 48 RCW or comply with the Surplus Lines Law of the State of Washington. Contractor shall include in the Contract Sum the cost of all insurance and bond costs required for the Work. Insurance carriers providing insurance shall be acceptable to Owner, and its A. M. Best rating shall be indicated on the insurance certificates.

A. Term of insurance coverage: Contractor shall maintain the following insurance coverage during the Work and for one year after Substantial Completion. Contractor shall also maintain the following insurance coverage during the performance of any corrective Work required by Section 5.16.

1. General Liability Insurance: Commercial General Liability (CGL) on an occurrence-based ISO Form CG 00 01 or broader, including products and completed operations, personal and advertising injury, bodily injury and property damage liability arising from Contractor's operations or Work, including operations or Work Contractor may subcontract or sublet to others.

   The policy shall be purchased from a company or companies lawfully authorized to do business in the State of Washington possessing an A.M. Best's policyholder's rating of A or better and a financial rating of no less than XI.

   Contractor's policy shall be designated primary and non-contributory to Owner's policies, and shall include a waiver of subrogation against Owner. Any self-insured retentions or deductibles must be disclosed and approved by Owner, and Contractor agrees to be responsible for payment of any and all self-insured retentions or deductibles.

2. Automobile Liability Insurance: Automobile liability on ISO Form CA 00 01 covering Code 1 (any auto).

3. Stop Gap Liability Insurance for damages because of bodily injuries to Contractor's employees.

B. Industrial Insurance compliance: Contractor shall comply with the Washington State Industrial Insurance Act and, if applicable, the Federal Longshoremen's and Harbor Workers' Act and the Jones Act.

C. Insurance to protect for the following: All insurance coverages shall protect against claims for damages for personal and bodily injury or death, as well as claims for property damage, which may arise from operations in connection with the Work whether such operations are by Contractor or any Subcontractor.

D. Owner as Additional Insured: All insurance coverages shall be endorsed to include Owner, its officers, and employees, and any required governmental agencies as additional named insureds with coverage at least as broad as ISO Forms CG 20 10, CG 20 37, and CA 20 48, with no self-insured retentions applicable to the additional insureds.

E. Subcontractor Coverage: Contractor shall ensure and require that Subcontractors have insurance coverage to cover bodily injury and property damage on all operations and all vehicles owned or operated by Subcontractors. Subcontractors shall name Contractor and Owner, any required governmental agencies, and others designated in the Contract Documents as well as their officers and employees, as additional insureds and give at least thirty (30) Days' Notice of cancellation.

2.02 COVERAGE LIMITS

Insurance amounts: The coverage limits shall be not less than the amounts specified in the Agreement; if limits are not specified in the Agreement, coverage limits shall be not less than as follows:

A. $1,000,000 per occurrence for bodily injury, property damage, personal and advertising injury.

B. $2,000,000 general aggregate to apply separately to each project or location.

C. $2,000,000 annual aggregate for products and completed operations.

D. $1,000,000 combined single limit each automobile accident or loss.

E. $1,000,000 per accident for bodily injury or occupational disease of Contractor's employees

Coverages and Minimums: Owner's review, specification or approval of the insurance in this Contract or of its coverage or amount shall not relieve or decrease the liability of Contractor under the Contract Documents or otherwise. Coverages are the minimum to be provided and are not limitations of liability under the Contract, indemnification, or applicable law provisions. Contractor may, at its expense, purchase larger coverage amounts.

2.03 PROOF OF INSURANCE COVERAGE

A. Certificate & endorsements required: Prior to commencement of the Work, Contractor shall furnish to Owner completed certificates of insurance coverage and endorsements evidencing compliance with the additional insured, cancellation, and waiver of subrogation requirements..

B. List Project info: All insurance certificates shall name Owner's Project number and Project title.

C. Policy: In the event of a claim or loss, Contractor shall promptly provide Owner with a complete copy of all applicable policies.

2.04 PAYMENT AND PERFORMANCE BONDS

Conditions for bonds: Payment and performance bonds for 100% of the Contract Award Amount, plus Washington State sales tax, shall be furnished for the Work, using the current version of the Payment Bond and Performance Bond form published by and available from the American Institute of Architects (AIA) – form A312. No payment or performance bond is required if the Contract Sum is $150,000 or less and Contractor requests and the Owner agrees that Owner may, in lieu of the bond, retain 10% of the Contract Sum for the period specified in RCW 39.08.010.

2.05 ALTERNATIVE SURETY

When alternative surety required: Contractor shall promptly furnish payment and performance bonds from an alternative surety if:

A. Owner has a reasonable objection to the surety; or

B. Any surety fails to furnish reports on its financial condition if required by Owner.

2.06 BUILDER'S RISK

A. Owner to buy builder's risk insurance: Owner shall purchase and maintain builder's risk insurance in the amount of the Contract Sum, including all Change Orders, for the Work on a replacement cost basis until Substantial Completion. For projects not involving new building construction, an "Installation Floater" is an acceptable substitute for the builder's risk insurance. The insurance shall cover the interests of Owner, Contractor, and any Subcontractors, as their interests may appear.

B. Losses covered: Builder's risk insurance shall be placed on an "all risk" basis or equivalent policy form and insure against the perils of fire and extended coverage and physical loss or damage including theft, vandalism, malicious mischief, collapse, false work, temporary buildings, debris removal including demolition, wind, and at Owner's option may include flood and/or earthquake. The policy shall cover reasonable compensation for A/E's services and expenses required as a result of an insured loss. Losses up to the deductible amount shall be the responsibility of Contractor.

C. Waiver of subrogation rights: Owner and Contractor waive all subrogation rights against each other, any Subcontractors, A/E, A/E's subconsultants, separate contractors described in Section 5.19, if any, and any of their subcontractors, for damages caused by fire or other perils to the extent covered by property insurance obtained pursuant to this Section 2.06 or other property insurance applicable to the Work, except such rights as they have to proceeds of such insurance held by Owner as fiduciary. The policies shall provide such waivers of subrogation by endorsement or otherwise. A waiver of subrogation shall be effective to a Person or entity even though that Person or entity would otherwise have a duty of indemnification, contractual or otherwise, did not pay the insurance premium directly or indirectly, and whether or not the Person or entity had an insurable interest in the property damaged.

PART 3 - TIME AND SCHEDULE

3.01 PROGRESS AND COMPLETION

Contractor to meet schedule: Contractor shall diligently prosecute the Work, with adequate forces, achieve Substantial Completion within the Contract Time, and achieve Final Completion within the time period specified in the Contract Documents. If Contractor fails to perform in a timely manner in accordance with the Contract Documents and, through the fault of Contractor or Subcontractor(s), fails to meet the Progress Schedule, Contractor shall be in default and shall take such steps as may be necessary to immediately improve its progress without change in the Contract Sum or Contract Time.

3.02 CONSTRUCTION SCHEDULE

A. Preliminary Progress Schedule: Unless otherwise provided in Division 1, Contractor shall, within 14 Days after issuance of the Notice to Proceed, submit a preliminary Progress Schedule consistent with the requirements of the Contract Documents. The Progress Schedule shall not exceed time limits specified by the Contract Documents, shall be revised at appropriate intervals as required by the conditions of the Work, and shall show the sequence in which Contractor proposes to perform the Work, and the dates on which Contractor plans to start and finish major portions of the Work, including dates for submission of Submittals per Section 4.03, which shall be coordinated with the Progress Schedule and identify dates for Owner review, and for acquiring materials and equipment.

B. Form of Progress Schedule: Unless otherwise provided in Division 1, the Progress Schedule shall be in the form of a bar chart, or a critical path method analysis, as specified by Owner. The preliminary Progress Schedule may be general, showing the major portions of the Work, with a more detailed Progress Schedule submitted as directed by Owner.

C. Owner comments on Progress Schedule: Owner shall return comments on the preliminary Progress Schedule to Contractor within 14 Days of receipt. Review by Owner of Contractor's schedule does not constitute an approval or acceptance of Contractor's construction means, methods, logic or sequencing, or its ability to complete the Work within the Contract Time. Contractor shall revise and resubmit its schedule, as necessary. Owner may withhold a portion of progress payments until a Progress Schedule has been submitted that meets the requirements of this Section 3.02.

D. Monthly updates and compliance with Progress Schedule: Contractor shall utilize and comply with the Progress Schedule. On a monthly basis, or as otherwise directed by Owner, Contractor shall submit an updated Progress Schedule at its own expense to Owner indicating actual progress. If, in the opinion of Owner, Contractor is not in conformance with the Progress Schedule for reasons other than acts of Force Majeure as identified in Section 3.05, Contractor shall take such steps as are necessary to bring the actual completion dates of its work activities into conformance with the Progress Schedule, and if directed by Owner, Contractor shall submit a

corrective action plan or revise the Progress Schedule to reconcile with the actual progress of the Work.

E. Contractor to notify Owner of delays: Contractor shall perform the Work in accordance with the most recent Progress Schedule submitted to Owner. Contractor shall promptly notify Owner in writing of any actual or anticipated event that is delaying or could delay achievement of any milestone or performance of any critical path activity of the Work. Contractor shall indicate the expected duration of the delay, the anticipated effect of the delay on the Progress Schedule, and the action being or to be taken to correct the problem. Provision of such Notice does not relieve Contractor of its obligation to complete the Work within the Contract Time.

3.03 OWNER'S RIGHT TO SUSPEND THE WORK FOR CONVENIENCE

A. Owner may suspend Work: Owner may, at its sole discretion, order Contractor, in writing, to suspend all or any part of the Work for up to 90 Days, or for such longer period as mutually agreed.

B. Compliance with suspension; Owner's options: Upon receipt of a written notice suspending the Work, Contractor shall immediately comply with its terms and take all reasonable steps to minimize the incurrence of cost of performance directly attributable to such suspension. Within a period up to 90 Days after the notice is delivered to Contractor, or within any extension of that period to which the parties shall have agreed, Owner shall either:

1. Cancel the written notice suspending the Work; or

2. Terminate the Work covered by the notice as provided in the termination provisions of Part 9.

C. Resumption of Work: If a written notice suspending the Work is cancelled or the period of the notice or any extension thereof expires, Contractor shall resume Work.

D. Equitable Adjustment for suspensions: Contractor shall be entitled to an equitable adjustment in the Contract Time, or Contract Sum, or both, for increases in the time or cost of performance directly attributable to such suspension, provided Contractor complies with all requirements set forth in Part 7.

3.04 OWNER'S RIGHT TO STOP AND/OR CARRY OUT THE WORK FOR CAUSE

A. Owner may stop Work for Contractor's failure to perform: If Contractor fails or refuses to perform its obligations in accordance with the Contract Documents, Owner may order Contractor, in writing, to stop the Work, or any portion thereof, until Owner has accepted satisfactory corrective action.

B. Owner may carry out the Work after Contractor's failure to perform: If Contractor defaults or neglects to carry out the Work in accordance with the Contract Documents and fails within a 14-Day period after receipt of written Notice from Owner to commence and continue to make reasonable progress toward the correction of such default or neglect with diligence and promptness, Owner may, without prejudice to other remedies Owner may have, correct such deficiencies, and an appropriate Change Order shall be issued deducting from payments then or thereafter due Contractor the reasonable cost of correcting the deficiencies, including Owner's expenses and compensation for A/E's additional services made necessary by the default, neglect or failure. If payments then or thereafter due Contractor are not sufficient to cover such amounts, Contractor shall pay the difference to Owner.

C. No equitable adjustment for Contractor's failure to perform: Contractor shall not be entitled to an equitable adjustment in the Contract Time or Contract Sum for any increased cost or time of performance attributable to Contractor's failure or refusal to perform or from any reasonable remedial action taken by Owner based upon such failure.

3.05 DELAY

A. Force Majeure actions not a default; Force Majeure defined: Any delay in or failure of performance by Owner or Contractor shall not constitute a default if and to the extent the cause for such delay or failure of performance was unforeseeable and beyond the control of the party. Acts of Force Majeure include, but are not limited to:

1. Acts of God or the public enemy;

2. Acts or omissions of any government entity not the fault of Owner or Contractor;

3. Fire or other casualty for which Contractor is not responsible;

4. Quarantine or epidemic;

5. Industry-wide strike or defensive lockout;

6. Unusually severe weather conditions which could not have been reasonably anticipated; and

7. Unusual delay in receipt of supplies or products which were ordered and expedited and for which no substitute reasonably acceptable to Owner was available.

    a. "Unusually severe weather" shall mean weather conditions that are abnormal for the period of time for which Force Majeure is claimed, that could not reasonably have been anticipated or avoided, and that had an adverse effect on the Progress Schedule. Neither the Contract Time nor the Contract Sum will be adjusted for normal inclement weather or if the Work was behind schedule (unless behind schedule for a reason not the responsibility of the Contractor) at the time the unusually severe weather occurred. The Contractor shall be entitled to a change in the Contract Time only (but not a change in the Contract Sum) if the Contractor can substantiate to the reasonable satisfaction of the Owner that there was unusually severe weather as compared to normal using a ten (10) year average of accumulated record mean values from climatological data compiled by the U.S. Department of Commerce National Oceanic and Atmospheric Administration for the locale closest to the Project, and that the abnormal inclement weather actually impacted and extended the critical path of the Work. Unusual is defined as a 10-year weather event of either or both precipitation or temperature extremes that fall outside the upper and lower ranges within a 10-year periodicity

B. Contract Time adjustment for Force Majeure: Contractor shall be entitled to an equitable adjustment in the Contract Time for changes in the time of performance directly attributable to an act of Force Majeure, provided it makes a request for equitable adjustment. Contractor shall not be entitled to an adjustment in the Contract Sum resulting from an act of Force Majeure.

C. Contract Time or Contract Sum adjustment if Owner at fault: Contractor shall be entitled to an equitable adjustment in Contract Time, and may be entitled to an equitable adjustment in

Contract Sum, if the cost or time of Contractor's performance is changed due to the fault or negligence of Owner, provided the Contractor makes a request for equitable adjustment.

D. No Contract Time or Contract Sum adjustment if Contractor at fault: Contractor shall not be entitled to an adjustment in Contract Time or in the Contract Sum for any delay or failure of performance to the extent such delay or failure was caused by Contractor or anyone for whose acts Contractor is responsible.

E. Contract Time adjustment only for concurrent fault: To the extent any delay or failure of performance was concurrently caused by the Owner and Contractor, Contractor shall be entitled to an adjustment in the Contract Time for that portion of the delay or failure of performance that was concurrently caused, provided it makes a request for equitable adjustment, but shall not be entitled to an adjustment in Contract Sum.

F. Contractor to mitigate delay impacts: Contractor shall make all reasonable efforts to prevent and mitigate the effects of any delay, whether occasioned by an act of Force Majeure or otherwise. Contractor shall not recover damages, an equitable adjustment or an increase in the Contract Sum or Contract Time from Owner where Contractor could have reasonably avoided the delay by the exercise of due diligence.

G. Types of damages permitted: If Contractor and its Subcontractors are entitled to a change in the Contract Sum, the amount of the change shall be the actual costs incurred by the Contractor and Subcontractors directly related to the change calculated in accordance with Section 7.02. Contractor and its Subcontractors shall not otherwise (not reflected by the actual costs incurred as calculated in accordance with Section 7.02) be entitled to damages arising out of actual or alleged loss of efficiency; morale, fatigue, attitude, or labor rhythm; constructive acceleration; home office overhead; expectant underrun; trade stacking; reassignment of workers; rescheduling of Work, concurrent operations; dilution of supervision; learning curve; beneficial or joint occupancy; logistics; ripple; season change; extended overhead; profit upon damages for delay; impact damages including cumulative impacts; or similar damages. Any effect that such alleged events may have on Contractor or its Subcontractors, to the extent not otherwise paid, is subsumed in and fully compensated through the percentage Fee on Change Orders paid through Section 7.02A.3.e and any liquidated damages paid hereunder.

3.06 NOTICE TO OWNER OF LABOR DISPUTES

A. Contractor to notify Owner of labor disputes: If Contractor has knowledge that any actual or potential labor dispute is delaying or threatens to delay timely performance in accordance with the Contract Documents, Contractor shall immediately give notice, including all relevant information, to Owner.

B. Pass through notification provisions to Subcontractors: Contractor agrees to insert a provision in its Subcontracts and to require insertion in all sub-subcontracts, that in the event timely performance of any such contract is delayed or threatened by delay by any actual or potential labor dispute, the Subcontractor or Sub-subcontractor shall immediately notify the next higher tier Subcontractor or Contractor, as the case may be, of all relevant information concerning the dispute.

3.07 DAMAGES FOR FAILURE TO ACHIEVE TIMELY COMPLETION

A. Liquidated Damages:

1. Reason for Liquidated Damages: Timely performance and completion of the Work is essential to Owner and time limits stated in the Contract Documents are of the essence.

Owner will incur serious and substantial damages if Substantial Completion of the Work does not occur within the Contract Time. However, it would be difficult if not impossible to determine the exact amount of such damages. Consequently, provisions for liquidated damages are included in the Contract Documents.

2. Calculation of Liquidated Damages amount: The liquidated damage amounts set forth in the Contract Documents will be assessed not as a penalty, but as liquidated damages for breach of the Contract Documents. This amount is fixed and agreed upon by and between the Contractor and Owner because of the impracticability and extreme difficulty of fixing and ascertaining the actual damages the Owner would in such event sustain. This amount shall be construed as the actual amount of damages sustained by the Owner, and may be retained by the Owner and deducted from periodic payments to the Contractor.

3. Contractor responsible even if Liquidated Damages assessed: Assessment of liquidated damages shall not release Contractor from any obligations or liabilities pursuant to the Contract Documents. If Contractor substantially fails to perform in a timely manner in accordance with the Contract Documents and, through the fault of Contractor or Subcontractor(s), fails to achieve Substantial Completion within the Contract Time, Contractor shall be in default.

B. Actual Damages: If no liquidated damages are established, actual damages may be assessed for failure to achieve both Substantial Completion and Final Completion within the time provided. Actual damages will be calculated on the basis of direct architectural, administrative, and other related costs attributable to the Project from the date when Substantial and/or Final Completion should have been achieved, as applicable. Owner may offset these costs against any payment due Contractor.

PART 4 - SPECIFICATIONS, DRAWINGS, AND OTHER DOCUMENTS

4.01 DISCREPANCIES AND CONTRACT DOCUMENT REVIEW

A. Specifications and Drawings are basis of the Work: The intent of the Specifications and Drawings is to describe a complete Project to be constructed in accordance with the Contract Documents. Contractor shall furnish all labor, materials, equipment, tools, transportation, permits, and supplies, and perform the Work required in accordance with the Drawings, Specifications, and other provisions of the Contract Documents.

B. Parts of the Contract Documents are complementary: The Contract Documents are complementary. What is required by one part of the Contract Documents shall be binding as if required by all. Anything mentioned in the Specifications and not shown on the Drawings, or shown on the Drawings and not mentioned in the Specifications, shall be of like effect as if shown or mentioned in both.

C. Contractor to report discrepancies in Contract Documents: Contractor shall carefully study and compare the Contract Documents with each other and with information furnished by Owner. If, during the performance of the Work, Contractor finds a conflict, error, inconsistency, or omission in the Contract Documents, it shall promptly and before proceeding with the Work affected thereby, report such conflict, error, inconsistency, or omission to A/E in writing.

D. Contractor knowledge of discrepancy in documents – responsibility: Contractor shall do no Work without applicable Drawings, Specifications, and, where required, accepted shop drawings and other Submittals, unless instructed to do so in writing by Owner. If Contractor performs any construction activity, and it knows or reasonably should have known that any of the Contract

Documents contain a conflict, error, inconsistency, or omission, Contractor shall be responsible for the performance and shall bear the cost for its correction.

E. Contractor to perform Work implied by Contract Documents: Contractor shall provide any work or materials the provision of which is clearly implied and is within the scope of the Contract Documents even if the Contract Documents do not mention them specifically.

F. Interpretation questions referred to A/E: Questions regarding interpretation of the requirements of the Contract Documents shall be referred to the A/E.

4.02 PROJECT RECORD

A. Contractor to maintain Project Record Drawings and Specifications: Contractor shall legibly mark in ink on a separate set of the Drawings and Specifications all actual construction, including depths of foundations, horizontal and vertical locations of internal and underground utilities and appurtenances referenced to permanent visible and accessible surface improvements, field changes of dimensions and details, actual suppliers, manufacturers and trade names, models of installed equipment, changes made to the building enclosure, and Change Order Proposals. This separate set of Drawings and Specifications shall be the "Project Record." The Project Record shall include all Architectural, Mechanical, Electrical, Structural and Civil as-built drawings, whether or not any changes occur and shall also include Addenda, Change Orders, WDs and other modifications to the Contract, in good order and marked currently to indicate field changes and selections made during construction, as well as one copy of accepted shop drawings, product data, samples and other required Submittals.

B. Update Project Record weekly and keep on site: The Project Record shall be maintained on the Project site throughout the construction and shall be clearly labeled "PROJECT RECORD." The Project Record shall be available to A/E and Owner at all times. The Project Record shall be updated at least weekly noting all changes and shall be available to Owner at all times.

C. Final Project Record to A/E before Final Acceptance: Contractor shall submit the completed and finalized Project Record to A/E prior to Final Acceptance.

4.03 SUBMITTALS

A. Definition of Submittals: "Submittals" means documents and other information required to be submitted to A/E by Contractor pursuant to the Contract Documents, showing in detail: the proposed fabrication and assembly of structural elements; and the installation (i.e. form, fit, and attachment details) of materials and equipment. Submittals can include, but are not limited to, drawings, diagrams, layouts, schematics, descriptive literature, illustrations, schedules, performance and test data, samples, and similar materials furnished by Contractor to explain in detail specific portions of the Work required by the Contract Documents. For materials and equipment to be incorporated into the Work, Contractor submittal shall include the name of the manufacturer, the model number, and other information concerning the performance, capacity, nature, and rating of the item. When directed, Contractor shall submit all samples at its own expense. Owner may duplicate, use, and disclose Submittals provided in accordance with the Contract Documents.

B. Approval of Submittals by Contractor and A/E: Contractor shall coordinate all Submittals with the Progress Schedule per Section 3.02A, shall review them for accuracy, completeness, and compliance with the Contract Documents, and shall indicate its approval thereon as evidence of such coordination and review. Where required by law, Submittals shall be stamped by an appropriate professional licensed by the state of Washington. Submittals submitted to A/E without evidence of Contractor's approval shall be returned for resubmission. Contractor shall

review, approve, and submit Submittals with reasonable promptness and in such sequence as to cause no delay in the Work or in the activities of Owner or separate contractors. Contractor's submittal schedule shall allow a reasonable time for A/E review. A/E will review, approve, or take other appropriate action on the Submittals. Contractor shall perform no portion of the Work requiring submittal and review of Submittals until the respective submittal has been reviewed and the A/E has approved or taken other appropriate action. Owner and A/E shall respond to Submittal with reasonable promptness. Any Work by Contractor shall be in accordance with reviewed Submittals. Submittals made by Contractor which are not required by the Contract Documents may be returned without action.

C. Contractor not relieved of responsibility when Submittals approved: Approval, or other appropriate action with regard to Submittals, by Owner or A/E shall not relieve Contractor of responsibility for any errors or omissions in such Submittals, nor from responsibility for compliance with the requirements of the Contract Documents. Unless specified in the Contract Documents, review by Owner or A/E shall not constitute an approval of the safety precautions employed by Contractor during construction, or constitute an approval of Contractor's means or methods of construction. If Contractor fails to obtain approval before installation and the item or work is subsequently rejected, Contractor shall be responsible for all costs of correction.

D. Variations between Submittals and Contract Documents: Submittals, including product data, samples and similar submissions, are not Contract Documents. If Submittals vary from the requirements of the Contract Documents, Contractor shall describe such variations in writing, separate from the Submittals, at the time it submits the Submittals containing such variations. If Owner approves any such variation, an appropriate Change Order will be issued. If the variation is minor and does not involve an adjustment in the Contract Sum or Contract Time, a Change Order need not be issued; however, the modification shall be approved by Owner in writing and recorded upon the Project Record. Approval for substitutions shall not be sought and shall not be approved through the submission of Submittals.

E. Contractor to submit 5 copies of Submittals: Unless otherwise provided in Division 1, Contractor shall submit to A/E for approval 5 copies of all Submittals. Unless otherwise indicated, 3 sets of all Submittals shall be retained by A/E and 2 sets shall be returned to Contractor.

4.04 ORGANIZATION OF SPECIFICATIONS

Specification organization by trade: Specifications are prepared in sections which conform generally with trade practices. These sections are for Owner and Contractor convenience and shall not control Contractor in dividing the Work among the Subcontractors or in establishing the extent of the Work to be performed by any trade.

4.05 OWNERSHIP AND USE OF DRAWINGS, SPECIFICATIONS, AND OTHER DOCUMENTS

A. A/E, not Contractor, owns Copyright of Drawings and Specifications: The Drawings, Specifications, and other documents prepared by A/E are instruments of A/E's service through which the Work to be executed by Contractor is described. Neither Contractor nor any Subcontractor shall own or claim a copyright in the Drawings, Specifications, and other documents prepared by A/E, and A/E shall be deemed the author of them and will, along with any rights of Owner, retain all common law, statutory, and other reserved rights, in addition to the copyright. All copies of these documents, except Contractor's set, shall be returned or suitably accounted for to A/E, on request, upon completion of the Work.

B. Drawings and Specifications to be used only for this Project: The Drawings, Specifications, and other documents prepared by the A/E, and copies thereof furnished to Contractor, are for use solely with respect to this Project. They are not to be used by Contractor or any Subcontractor on

other projects or for additions to this Project outside the scope of the Work without the specific written consent of Owner and A/E. Contractor and Subcontractors are granted a limited license to use and reproduce applicable portions of the Drawings, Specifications, and other documents prepared by A/E appropriate to and for use in the execution of their Work.

C. License granted to Owner: Contractor and all Subcontractors grant a non-exclusive license to Owner, without additional cost or royalty, to use for its own purposes (including reproduction) all Submittals, together with the information and diagrams contained therein, prepared by Contractor or any Subcontractor. In providing Submittals, Contractor and all Subcontractors warrant that they have authority to grant to Owner a license to use the Submittals, and that such license is not in violation of any copyright or other intellectual property right. Contractor agrees to defend and indemnify Owner pursuant to the indemnity provisions in Section 5.03 and 5.22 from any violations of copyright or other intellectual property rights arising out of Owner's use of the Submittals hereunder, or to secure for Owner, at Contractor's own cost, licenses in conformity with this section.

D. Submittals to be used only for this Project: Submittals prepared by Contractor, Subcontractors of any tier, or its or their equipment or material suppliers, and copies thereof furnished to Contractor, are for use solely with respect to this Project. They are not to be used by Contractor or any Subcontractor of any tier, or material or equipment supplier, on other projects or for additions to this Project outside the scope of the Work without the specific written consent of Owner. The Contractor, Subcontractors of any tier, and material or equipment suppliers are granted a limited license to use and reproduce applicable portions of the Submittals appropriate to and for use in the execution of their Work under the Contract Documents.

E. Electronic Files: If the parties intend to transmit the instruments of service or any other information or documentation in digital form (other than PDF), they shall endeavor to establish necessary protocols governing such transmissions, unless otherwise already provided in the Contract Documents.

PART 5 - PERFORMANCE

5.01 CONTRACTOR CONTROL AND SUPERVISION

A. Contractor responsible for Means and Methods of construction: Contractor shall supervise and direct the Work, using its best skill and attention, and shall perform the Work in a skillful manner. Contractor shall be solely responsible for and have control over construction means, methods, techniques, sequences, and procedures and for coordinating all portions of the Work, unless the Contract Documents give other specific instructions concerning these matters. Contractor shall disclose its means and methods of construction when requested by Owner.

B. Competent superintendent required: Contractor, as soon as practicable after award of the Contract, shall furnish in writing to Owner the name and qualifications of its proposed superintendent. Owner may reply within 14 Days to Contractor in writing stating (1) whether Owner has reasonable objection to the proposed superintendent or (2) that Owner requires additional time to review. Failure of Owner to reply within the 14-Day period shall constitute Notice of no reasonable objection. The superintendent shall not be employed on any other project during the course of the Work. Unless approved by the Owner's representative and only when overseeing projects on the same campus or location where oversite and supervision will not be degraded. Performance of the Work shall be directly supervised by a competent superintendent who shall be in attendance at the Project site during performance of the Work and who has authority to act on behalf of Contractor. Communications given to the superintendent shall be as binding as if given to Contractor. The superintendent must be satisfactory to Owner and shall not be changed without the prior written consent of Owner. Owner may require

Contractor to remove the superintendent from the Work or Project site, if Owner reasonably deems the superintendent incompetent, careless, or otherwise objectionable, provided Owner has first notified Contractor in writing and allowed a reasonable period for transition.

C. Contractor responsible for acts and omissions of self and agents: Contractor shall be responsible to Owner for acts and omissions of Contractor, Subcontractors, and their employees and agents.

D. Contractor to employ competent and disciplined workforce: Contractor shall enforce strict discipline and good order among all of the Contractor's employees and other persons performing the Work. Contractor shall not permit employment of persons not skilled in tasks assigned to them. Contractor's employees shall at all times conduct business in a manner which assures fair, equal, and nondiscriminatory treatment of all persons. Owner may, by written notice, request Contractor to remove from the Work or Project site any employee Owner reasonably deems incompetent, careless, or otherwise objectionable.

E. Contractor to keep project documents on site: Contractor shall keep on the Project site a copy of the Drawings, Specifications, addenda, reviewed Submittals, and permits and permit drawings.

F. Contractor to comply with ethical standards: Contractor shall ensure that its owner(s) and employees, and those of its Subcontractors, comply with the Ethics in Public Service Act RCW 42.52, which, among other things, prohibits state employees from having an economic interest in any public works contract that was made by, or supervised by, that employee. Contractor shall remove, at its sole cost and expense, any of its, or its Subcontractors' employees, if they are in violation of this act.

5.02 PERMITS, FEES, AND NOTICES

A. Contractor to obtain and pay for permits: Unless otherwise provided in the Contract Documents, Contractor shall secure and pay for the building, any land use permits and all other permits, licenses, and inspections necessary for proper execution and completion of the Work. Prior to Final Acceptance, the approved, signed permits shall be delivered to Owner.

B. Allowances for permit fees: If allowances for permits or utility fees are called for in the Contract Documents and set forth in Contractor's bid, and the actual costs of those permits or fees differ from the allowances in the Contract Documents, the difference shall be adjusted by Change Order.

C. Contractor to comply with all applicable laws: Contractor shall comply with and give notices required by all federal, state, and local laws, ordinances, rules, regulations, and lawful orders of public authorities applicable to performance of the Work.

D. Taxes: Contractor shall pay sales, consumer, use, business and occupation, income and similar taxes for the Work that are legally enacted when the initial Contract Sum is agreed.

5.03 PATENTS AND ROYALTIES

Payment, indemnification, and notice: Contractor is responsible for, and shall pay, all royalties and license fees. Contractor shall defend, indemnify, and hold Owner harmless from any costs, expenses, and liabilities arising out of the infringement by Contractor of any patent, copyright, or other intellectual property right used in the Work; however, provided that Contractor gives prompt notice, Contractor shall not be responsible for such defense or indemnity when a particular design, process, or product of a particular manufacturer or manufacturers is required by the Contract Documents. If Contractor has reason to believe that use of the required design, process, or product constitutes an infringement of a patent or copyright, it shall promptly notify Owner of such potential infringement.

5.04 PREVAILING WAGES

A. Contractor to pay Prevailing Wages: Contractor shall pay the prevailing rate of wages to all workers, laborers, or mechanics employed in the performance of any part of the Work in accordance with RCW 39.12 and the rules and regulations of the Department of Labor and Industries. The schedule of prevailing wage rates for the locality or localities of the Work, is determined by the Industrial Statistician of the Department of Labor and Industries. It is the Contractor's responsibility to verify the applicable prevailing wage rate.

B. Statement of Intent to Pay Prevailing Wages: Before payment is made by the Owner to the Contractor for any work performed by the Contractor and subcontractors whose work is included in the application for payment, the Contractor shall submit, or shall have previously submitted to the Owner for the Project, a Statement of Intent to Pay Prevailing Wages, approved by the Department of Labor and Industries, certifying the rate of hourly wage paid and to be paid each classification of laborers, workers, or mechanics employed upon the Work by Contractor and Subcontractors. Such rates of hourly wage shall not be less than the prevailing wage rate.

C. Affidavit of Wages Paid: Prior to release of retainage, the Contractor shall submit to the Owner an Affidavit of Wages Paid, approved by the Department of Labor and Industries, for the Contractor and every subcontractor that performed work on the Project.

D. Disputes: Disputes regarding prevailing wage rates shall be referred for arbitration to the Director of the Department of Labor and Industries. The arbitration decision shall be final and conclusive and binding on all parties involved in the dispute as provided for by RCW 39.12.060.

E. Statement with pay application; Post Statements of Intent at job site: Each Application for Payment submitted by Contractor shall state that prevailing wages have been paid in accordance with the prefiled statement(s) of intent, as approved. Copies of the approved intent statement(s) shall be posted on the job site with the address and telephone number of the Industrial Statistician of the Department of Labor and Industries where a complaint or inquiry concerning prevailing wages may be made.

F. Contractor to pay for Statements of Intent and Affidavits: In compliance with chapter 296-127 WAC, Contractor shall pay to the Department of Labor and Industries the currently established fee(s) for each statement of intent and/or affidavit of wages paid submitted to the Department of Labor and Industries for certification.

G. Certified Payrolls: Consistent with WAC 296-127-320, the Contractor and any subcontractor shall submit a certified copy of payroll records if requested.

5.05 HOURS OF LABOR

A. Overtime: Contractor shall comply with all applicable provisions of RCW 49.28 and they are incorporated herein by reference.

5.06 NONDISCRIMINATION

A. Discrimination prohibited by applicable laws: Discrimination in all phases of employment is prohibited by, among other laws and regulations, Title VII of the Civil Rights Act of 1964, the Vietnam Era Veterans Readjustment Act of 1974, Sections 503 and 504 of the Vocational Rehabilitation Act of 1973, the Equal Employment Act of 1972, the Age Discrimination Act of 1967, the Americans with Disabilities Act of 1990, the Civil Rights Act of 1991, Presidential Executive Order 11246, Executive Order 11375, the Washington State Law Against Discrimination, RCW 49.60, and Gubernatorial Executive Order 85-09. These laws and

regulations establish minimum requirements for affirmative action and fair employment practices which Contractor must meet.

B. During performance of the Work:

1. Protected Classes: Contractor shall not discriminate against any employee or applicant for employment because of race, creed, color, national origin, citizenship or immigration status, sex, sexual orientation, gender identity, religion, immigration/citizenship status, genetic information, age, marital status, or the presence of any physical, sensory, or mental disability, Vietnam era veteran status, or disabled veteran status, honorably discharged veteran or military status, or the use of a trained dog guide or service animal by a person with a disability, nor commit any other unfair practices as defined in RCW 49.60 and other state and federal antidiscrimination laws and regulations.

2. Advertisements to state nondiscrimination: Contractor shall, in all solicitations or advertisements for employees placed by or for it, state that all qualified applicants will be considered for employment, without regard to race, creed, color, national origin, citizenship or immigration status, sex, sexual orientation, gender identity, age, marital status, or the presence of any physical, sensory, or mental disability, honorably discharged veteran or military status, or the use of a trained dog guide or service animal by a person with a disability.

3. Contractor to notify unions and others of nondiscrimination: Contractor shall send to each labor union, employment agency, or representative of workers with which it has a collective bargaining agreement or other contract or understanding, a notice advising the labor union, employment agency, or workers' representative of Contractor's obligations according to the Contract Documents and RCW 49.60.

4. Owner and State access to Contractor records: Contractor shall permit access to its books, records, and accounts, and to its premises by Owner, and by the Washington State Human Rights Commission, for the purpose of investigation to ascertain compliance with this section of the Contract Documents.

5. Pass through provisions to Subcontractors: Contractor shall include the provisions of this section in every Subcontract.

5.07 SAFETY PRECAUTIONS

A. Contractor responsible for safety: Contractor shall be responsible for initiating, maintaining, and supervising all safety precautions and programs in connection with the performance of the Work. Contractor shall be solely and completely responsible for conditions of the Project site, including safety of all persons and property, during performance of the Work. Contractor shall maintain the Project site and perform the Work in a manner that meets statutory and common-law requirements for the provision of a safe place to work. This requirement shall apply continuously and not be limited to working hours. Any review by Owner or A/E of Contractor's performance shall not be construed to include a review of the adequacy of Contractor's safety measures in, on or near the site of the Work.

B. Contractor safety responsibilities: In carrying out its responsibilities according to the Contract Documents, Contractor shall protect the lives and health of employees performing the Work and other persons who may be affected by the Work; prevent damage to materials, supplies, and equipment whether on site or stored off-site; and prevent damage to other property at the site or adjacent thereto. Contractor shall comply with all applicable laws, ordinances, rules, regulations, and orders of any public body having jurisdiction for the safety of persons or property or to protect

them from damage, injury, or loss; shall erect and maintain all necessary safeguards for such safety and protection; and shall notify owners of adjacent property and utilities when prosecution of the Work may affect them.

C. Contractor to maintain safety records: Contractor shall maintain an accurate record of exposure data on all incidents relating to the Work resulting in death, traumatic injury, occupational disease, or damage to property, materials, supplies, or equipment. Contractor shall immediately report any such incident to Owner. Owner shall, at all times, have a right of access to all records of exposure.

D. Contractor to provide HazMat training: Contractor shall provide all persons working on the Project site with information and training on hazardous chemicals in their work at the time of their initial assignment, and whenever a new hazard is introduced into their work area.

1. Information. At a minimum, Contractor shall inform persons working on the Project site of:

a. WAC: The requirements of chapter 296-62 WAC, General Occupational Health Standards;

b. Presence of hazardous chemicals: Any operations in their work area where hazardous chemicals are present; and

c. Hazard communications program: The location and availability of written hazard communication programs, including the required list(s) of hazardous chemicals and material safety data sheets required by chapter 296-62 WAC.

2. Training. At a minimum, Contractor shall provide training for persons working on the Project site which includes:

a. Detecting hazardous chemicals: Methods and observations that may be used to detect the presence or release of a hazardous chemical in the work area (such as monitoring conducted by the employer, continuous monitoring devices, visual appearance or odor of hazardous chemicals when being released, etc.);

b. Hazards of chemicals: The physical and health hazards of the chemicals in the work area;

c. Protection from hazards: The measures such persons can take to protect themselves from these hazards, including specific procedures Contractor, or its Subcontractors, or others have implemented to protect those on the Project site from exposure to hazardous chemicals, such as appropriate work practices, emergency procedures, and personal protective equipment to be used; and

d. Hazard communications program: The details of the hazard communications program developed by Contractor, or its Subcontractors, including an explanation of the labeling system and the material safety data sheet, and how employees can obtain and use the appropriate hazard information.

E. Hazardous, toxic or harmful substances: Contractor's responsibility for hazardous, toxic, or harmful substances shall include the following duties:

1. Illegal use of dangerous substances: Contractor shall not keep, use, dispose, transport, generate, or sell on or about the Project site, any substances now or hereafter

designated as, or which are subject to regulation as, hazardous, toxic, dangerous, or harmful by any federal, state or local law, regulation, statute or ordinance (hereinafter collectively referred to as "hazardous substances"), in violation of any such law, regulation, statute, or ordinance, but in no case shall any such hazardous substance be stored more than 90 Days on the Project site.

2. Contractor notifications of spills, failures, inspections, and fines: Contractor shall promptly notify Owner of all spills or releases of any hazardous substances which are otherwise required to be reported to any regulatory agency and pay the cost of cleanup. Contractor shall promptly notify Owner of all failures to comply with any federal, state, or local law, regulation, or ordinance; all inspections of the Project site by any regulatory entity concerning the same; all regulatory orders or fines; and all responses or interim cleanup actions taken by or proposed to be taken by any government entity or private party on the Project site.

F. Public safety and traffic: All Work shall be performed with due regard for the safety of the public. Contractor shall perform the Work so as to cause a minimum of interruption of vehicular traffic or inconvenience to pedestrians. All arrangements to care for such traffic shall be Contractor's responsibilities. All expenses involved in the maintenance of traffic by way of detours shall be borne by Contractor.

G. Contractor to act in an emergency: In an emergency affecting the safety of life or the Work or of adjoining property, Contractor is permitted to act, at its discretion, to prevent such threatened loss or injury, and Contractor shall so act if so authorized or instructed.

H. No duty of safety by Owner or A/E: Nothing provided in this Section 5.07 shall relieve Contractor of sole and complete responsibility for safety at the Project site, for sole and complete responsibility for any violation of safety or property protection requirements or the correction thereof, or impose any duty upon Owner or A/E with regard to, or as constituting any express or implied assumption of control or responsibility over, any other safety conditions relating to employees or agents of Contractor or any of its Subcontractors, or the public. Any Notice Owner or A/E gives to Contractor of a safety or property protection violation will not: (1) relieve Contractor of sole and complete responsibility for the violation and the correction thereof, or for sole liability for the consequences of said violation; (2) impose any obligation upon Owner or A/E to inspect or review Contractor's safety program or precautions or to enforce Contractor's compliance with the requirements of this Section 5.07; or (3) impose any continuing obligation upon Owner or A/E to provide such Notice to Contractor or any other persons or entity.

5.08 OPERATIONS, MATERIAL HANDLING, AND STORAGE AREAS

A. Limited storage areas: Contractor shall confine all operations, including storage of materials, to Owner-approved areas.

B. Temporary buildings and utilities at Contractor expense: Temporary buildings (e.g., storage sheds, shops, offices) and utilities may be provided by Contractor only with the consent of Owner and without expense to Owner. The temporary buildings and utilities shall be removed by Contractor at its expense upon completion of the Work.

C. Roads and vehicle loads: Contractor shall use only established roadways or temporary roadways authorized by Owner. When materials are transported in prosecuting the Work, vehicles shall not be loaded beyond the loading capacity recommended by the manufacturer of the vehicle or prescribed by federal, state, or local law or regulation.

D. Ownership and reporting by Contractor of demolished materials: Ownership and control of all materials or facility components to be demolished or removed from the Project site by Contractor shall immediately vest in Contractor upon severance of the component from the facility or severance of the material from the Project site. Contractor shall be responsible for compliance with all laws governing the storage and ultimate disposal. Contractor shall provide Owner with a copy of all manifests and receipts evidencing proper disposal when required by Owner or applicable law.

E. Contractor responsible for care of materials and equipment on-site: Contractor shall be responsible for the proper care and protection of its materials and equipment delivered to the Project site. Materials and equipment may be stored on the premises subject to approval of Owner. When Contractor uses any portion of the Project site as a shop, Contractor shall be responsible for any repairs, patching, or cleaning arising from such use.

F. Contractor responsible for loss of materials and equipment: Contractor shall protect and be responsible for any damage or loss to the Work, or to the materials or equipment until the date of Substantial Completion, and shall repair or replace without cost to Owner any damage or loss that may occur, except damages or loss caused by the acts or omissions of Owner. Contractor shall also protect and be responsible for any damage or loss to the Work, or to the materials or equipment, after the date of Substantial Completion, and shall repair or replace without cost to Owner any such damage or loss that might occur, to the extent such damages or loss are caused by the acts or omissions of Contractor, or any Subcontractor.

5.09 PRIOR NOTICE OF EXCAVATION

A. Excavation defined; Use of locator services: "Excavation" means an operation in which earth, rock, or other material on or below the ground is moved or otherwise displaced by any means, except the tilling of soil less than 12 inches in depth for agricultural purposes, or road ditch maintenance that does not change the original road grade or ditch flow line. Before commencing any excavation, Contractor shall provide notice of the scheduled commencement of excavation to all owners of underground facilities or utilities, through locator services.

5.10 UNFORESEEN PHYSICAL CONDITIONS

A. Notice requirement for concealed or unknown conditions: If Contractor encounters conditions at the site which are subsurface or otherwise concealed physical conditions which differ materially from those indicated in the Contract Documents, or unknown physical conditions of an unusual nature which differ materially from those ordinarily found to exist and generally recognized as inherent in construction activities of the character provided for in the Contract Documents, then Contractor shall give written notice to Owner promptly and in no event later than 7 Days after the first observance of the conditions. Conditions shall not be disturbed prior to such notice.

B. Adjustment in Contract Time and Contract Sum: If such conditions differ materially and cause a change in Contractor's cost of, or time required for, performance of any part of the Work, the Contractor may be entitled to an equitable adjustment in the Contract Time or Contract Sum, or both, provided it makes a request therefore as provided in Part 7.

5.11 PROTECTION OF EXISTING STRUCTURES, EQUIPMENT, VEGETATION, UTILITIES AND IMPROVEMENTS

A. Contractor to protect and repair property: At all times until Owner's occupancy of the Work or a designated portion of the Work, Contractor shall protect the Work from damage, weather, deterioration, theft, vandalism and malicious mischief and shall bear the risk of any uninsured loss or destruction of, or injury or damage to, all materials, equipment, tools, and other items

incorporated or to be incorporated in the Work or designated portion, or consumed or used in the performance of the Work or designated portion, including all Work in process and completed Work. Contractor shall protect from damage all existing structures, equipment, improvements, utilities, streets, curbs, walks and vegetation at or near the Project site or on adjacent property of a third party, the locations of which are made known to or should be known by Contractor. Contractor shall repair any damage, including that to the property of a third party, resulting from failure to comply with the requirements of the Contract Documents or failure to exercise reasonable care in performing the Work. If Contractor fails or refuses to repair the damage promptly, Owner may have the necessary work performed and charge the cost to Contractor. If a governmental authority having jurisdiction requires that the repairing and patching be done with its own labor and/or materials, Contractor shall abide by such regulations, and it shall pay for this work at no additional cost to Owner.

B. Tree and vegetation protection: Contractor shall only remove trees when specifically authorized to do so, and shall protect vegetation that will remain in place.

C. Special site conditions: If, in the course of the Work, Contractor encounters human remains or recognizes the existence of burial markers, archaeological sites or wetlands not indicated in the Contract Documents, Contractor shall immediately suspend any operations that would affect them and shall notify Owner and A/E. Upon receipt of such Notice, Owner shall promptly take any action necessary to obtain governmental authorization required to resume the operations. Contractor shall continue to suspend these operations until otherwise instructed by Owner but shall continue with all other operations that do not affect those remains or features. Requests for adjustments in the Contract Sum and Contract Time arising from the existence of such remains or features may be made as provided in Part 8.

5.12 LAYOUT OF WORK

A. Advanced planning of the Work: Contractor shall plan and lay out the Work in advance of operations so as to coordinate all work without delay or revision.

B. Layout responsibilities: Contractor shall lay out the Work from Owner-established baselines and bench marks indicated on the Drawings, and shall be responsible for all field measurements in connection with the layout. Contractor shall furnish, at its own expense, all stakes, templates, platforms, equipment, tools, materials, and labor required to lay out any part of the Work. Contractor shall be responsible for executing the Work to the lines and grades that may be established. Contractor shall be responsible for maintaining or restoring all stakes and other marks established.

5.13 MATERIAL AND EQUIPMENT

A. Contractor to provide new and equivalent equipment and materials: All equipment, material, and articles incorporated into the Work shall be new and of the most suitable grade for the purpose intended, unless otherwise specifically provided in the Contract Documents. References in the Specifications to equipment, material, articles, or patented processes by trade name, make, or catalog number, shall be regarded as establishing a standard quality and shall not be construed as limiting competition. Contractor may, at its option, use any equipment, material, article, or process that, in the judgment of A/E and after submittal and approval of a substitute request, is equal to that named in the Specifications, unless otherwise specifically provided in the Contract Documents.

B. Contractor responsible for fitting parts together: Contractor shall do all cutting, fitting, or patching that may be required to complete the Work or to make its several parts fit together properly, or receive or be received by work of others set forth in, or reasonably implied by, the Contract

Documents. Contractor shall not damage or endanger any work of Owner or separate contractors by cutting, excavating, or otherwise altering the Work and shall not cut or alter the work of any other contractor unless approved in advance by Owner. Contractor shall restore all areas requiring cutting, fitting and patching to the condition existing prior to the cutting, fitting and patching, unless otherwise required by the Contract Documents.

C. Owner may reject defective Work: Should any of the Work be found defective, or in any way not in accordance with the Contract Documents, this Work, in whatever stage of completion, may be rejected by Owner. However, neither this authority of Owner nor a decision made either to exercise or not to exercise such authority shall give rise to a duty or responsibility of Owner or its representatives to Contractor, Subcontractors, their agents or employees, or other persons or entities performing portions of the Work.

5.14 AVAILABILITY AND USE OF UTILITY SERVICES

A. Owner to provide and charge for utilities: Owner shall make all reasonable utilities available to Contractor from existing outlets and supplies, as specified in the Contract Documents. Unless otherwise provided in the Contract Documents, the utility service consumed shall be charged to or paid for by Contractor at prevailing rates charged to Owner or, where the utility is produced by Owner, at reasonable rates determined by Owner. Contractor will carefully conserve any utilities furnished.

B. Contractor to install temporary connections and meters: Contractor shall, at its expense and in a skillful manner satisfactory to Owner, install and maintain all necessary temporary connections and distribution lines, together with appropriate protective devices, and all meters required to measure the amount of each utility used for the purpose of determining charges. Prior to the date of Final Acceptance, Contractor shall remove all temporary connections, distribution lines, meters, and associated equipment and materials.

5.15 TESTS AND INSPECTION

A. Contractor to provide for all testing and inspection of Work: Contractor shall maintain an adequate testing and inspection program and perform such tests and inspections as are necessary or required to ensure that the Work conforms to the requirements of the Contract Documents. Contractor shall be responsible for inspection and quality surveillance of all its Work and all Work performed by any Subcontractor. Unless otherwise provided, Contractor shall make arrangements for such tests, inspections, and approvals with an independent testing laboratory or entity acceptable to Owner, or with the appropriate public authority, and shall bear all related costs of tests, inspections, and approvals. Contractor shall give Owner timely notice of when and where tests and inspections are to be made. Contractor shall maintain complete inspection records and make them available to Owner.

B. Owner may conduct tests and inspections: Owner may, at any reasonable time, conduct such inspections and tests as it deems necessary to ensure that the Work is in accordance with the Contract Documents. Owner shall promptly notify Contractor if an inspection or test reveals that the Work is not in accordance with the Contract Documents. Unless the subject items are expressly accepted by Owner, such Owner inspection and tests are for the sole benefit of Owner and do not:

1. Constitute or imply acceptance;

2. Relieve Contractor of responsibility for providing adequate quality control measures;

3. Relieve Contractor of responsibility for risk of loss or damage to the Work, materials, or equipment;

4. Relieve Contractor of its responsibility to comply with the requirements of the Contract Documents; or

5. Impair Owner's right to reject defective or nonconforming items, or to avail itself of any other remedy to which it may be entitled.

C. Inspections or inspectors do not modify Contract Documents: Neither observations by an inspector retained by Owner, the presence or absence of such inspector on the site, nor inspections, tests, or approvals by others, shall relieve Contractor from any requirement of the Contract Documents, nor is any such inspector authorized to change any term or condition of the Contract Documents.

D. Contractor responsibilities on inspections: Contractor shall promptly furnish, without additional charge, all facilities, labor, material and equipment reasonably needed for performing such safe and convenient inspections and tests as may be required by Owner. Owner may charge Contractor any additional cost of inspection or testing when Work is not ready at the time specified by Contractor for inspection or testing, or when prior rejection makes reinspection or retest necessary. Owner shall perform its inspections and tests in a manner that will cause no undue delay in the Work.

5.16 CORRECTION OF NONCONFORMING WORK

A. Work covered by Contractor without inspection: If a portion of the Work is covered contrary to the request of Owner or the requirements in the Contract Documents or a governmental authority having jurisdiction, it must, if required in writing by Owner, be uncovered for Owner's observation and be replaced at Contractor's expense and without change in the Contract Sum or Contract Time.

B. Payment provisions for uncovering covered Work: If, at any time prior to Final Completion, Owner desires to examine the Work, or any portion of it, which has been covered, Owner may request to see such Work and it shall be uncovered by Contractor. If such Work is in accordance with the Contract Documents, the Contractor shall be entitled to an adjustment in the Contract Sum for the costs of uncovering and replacement, and, if completion of the Work is thereby delayed, an adjustment in the Contract Time, provided it makes such a request as provided in Part 7. If such Work is not in accordance with the Contract Documents, the Contractor shall pay the costs of examination and reconstruction.

C. Contractor to correct and pay for non-conforming Work: Contractor shall promptly correct Work found by Owner not to conform to the requirements of the Contract Documents, whether observed before or after Substantial Completion and whether or not fabricated, installed, or completed. Contractor shall bear all costs of correcting such nonconforming Work, including additional testing and inspections.

D. Contractor's compliance with correction and warranty provisions: If, within one year after the date of Substantial Completion of the Work or designated portion thereof, or within one year after the date for commencement of any system warranties established under Section 6.08, or within the terms of any applicable special warranty required by the Contract Documents, any of the Work is found to be not in accordance with the requirements of the Contract Documents, Contractor shall correct it promptly after receipt of written Notice from Owner to do so. Owner shall give such Notice promptly after discovery of the condition. This period of one year shall be extended, with respect to portions of Work first performed after Substantial Completion, by the period of time

between Substantial Completion and the actual performance of the Work. Contractor's duty to correct with respect to Work repaired or replaced shall run for one year from the date of repair or replacement. Obligations under this Section 5.16D shall survive Final Acceptance and are in addition to other warranties provided by contract or law.

E. Contractor to remove non-conforming Work: Contractor shall remove from the Project site portions of the Work which are not in accordance with the requirements of the Contract Documents and are neither corrected by Contractor nor accepted by Owner.

F. Owner may charge Contractor for non-conforming Work: If Contractor fails to correct nonconforming Work within a reasonable time after written notice to do so, Owner may replace, correct, or remove the nonconforming Work and charge the cost thereof to the Contractor.

G. Contractor to pay for damaged Work during correction: Contractor shall bear the cost of correcting destroyed or damaged Work, whether completed or partially completed, caused by Contractor's correction or removal of Work which is not in accordance with the requirements of the Contract Documents.

H. No Period of limitation on other requirements: Nothing contained in this section shall be construed to establish a period of limitation with respect to other obligations which Contractor might have according to the Contract Documents. Establishment of the time period of one year as described in Section 5.16D relates only to the specific obligation of Contractor to correct the Work, and has no relationship to the time within which the Contractor's obligation to comply with the Contract Documents may be sought to be enforced, including the time within which such proceedings may be commenced.

I. Owner may accept non-conforming Work and charge Contractor: If Owner prefers to accept Work which is not in accordance with the requirements of the Contract Documents, Owner may do so instead of requiring its removal and correction, in which case the Contract Sum may be reduced as appropriate and equitable.

5.17 CLEAN UP

Contractor to keep site clean and leave it clean: Contractor shall at all times keep the Project site, including hauling routes, infrastructures, utilities, and storage areas, free from accumulations of waste materials. Before completing the Work, Contractor shall remove from the premises its rubbish, tools, scaffolding, equipment, and materials. Upon completing the Work, Contractor shall leave the Project site in a clean, neat, and orderly condition satisfactory to Owner. If Contractor fails to clean up as provided herein, and after reasonable notice from Owner, Owner may do so and the cost thereof shall be charged to Contractor.

5.18 ACCESS TO WORK

Owner and A/E access to Work site: Contractor shall provide Owner and A/E access to the Work in progress wherever located.

5.19 OTHER CONTRACTS

Owner may award other contracts; Contractor to cooperate: Owner may undertake or award other contracts for additional work at or near the Project site. Owner shall help coordinate the activities of Owner's own forces and of each separate contractor engaged by Owner with the Work of Contractor, who shall reasonably cooperate with the other contractors and with Owner's employees and shall carefully adapt scheduling and perform the Work in accordance with these Contract Documents to reasonably accommodate the other work.

5.20 SUBCONTRACTORS AND SUPPLIERS

A. Subcontractor Responsibility: The Contractor shall include the language of this paragraph in each of its first tier subcontracts, and shall require each of its subcontractors to include the same language of this section in each of their subcontracts, adjusting only as necessary the terms used for the contracting parties. Upon request of the Owner, the Contractor shall promptly provide documentation to the Owner demonstrating that the subcontractor meets the subcontractor responsibility criteria below. The requirements of this paragraph apply to all subcontractors regardless of tier. At the time of subcontract execution, the Contractor shall verify that each of its first tier subcontractors meets the following bidder responsibility criteria:

1. Have a current certificate of registration as a contractor in compliance with chapter 18.27 RCW, which must have been in effect at the time of subcontract bid submittal;

2. Have a current Washington Unified Business Identifier (UBI) number;

3. If applicable, have:

   a. Industrial Insurance (workers' compensation) coverage for the subcontractor's employees working in Washington, as required in Title 51 RCW;

   b. A Washington Employment Security Department number, as required in Title 50 RCW;

   c. A Washington Department of Revenue state excise tax registration number, as required in Title 82 RCW;

   d. An electrical contractor license, if required by Chapter 19.28 RCW;

   e. An elevator contractor license, if required by Chapter 70.87 RCW.

4. Not be disqualified from bidding on any public works contract under RCW 39.06.010 or 39.12.065 (3).

5. On a project subject to the apprenticeship utilization requirements in RCW 39.04.320, not have been found out of compliance by the Washington state apprenticeship and training council for working apprentices out of ratio, without appropriate supervision, or outside their approved work processes as outlined in their standards of apprenticeship under chapter 49.04 RCW for the one-year period immediately preceding the date of the Owner's first advertisement of the project.

6. Meet all supplemental responsibility criteria set forth in the Contract Documents.

B. Provide names of Subcontractors and use qualified firms: Before submitting the first Application for Payment, Contractor shall furnish in writing to Owner the names, addresses, and telephone numbers of all Subcontractors, as well as suppliers providing materials in excess of $2,500. Contractor shall utilize Subcontractors and suppliers which are experienced and qualified, and meet the requirements of the Contract Documents, if any. Contractor shall not utilize any Subcontractor or supplier to whom Owner has a "reasonable objection," and shall obtain Owner's written consent before making any substitutions or additions. A "reasonable objection" shall include without limitation:

.1 a proposed Subcontractor differing from the entity listed with a proposal or bid,

.2 lack of "responsibility" of the proposed Subcontractor, as defined in RCW 39.04.350 or otherwise in the Contract Documents, or

.3 lack of qualification, including technical qualification, as required by the Specifications.

C. Subcontracts in writing and pass through provision: All Subcontracts must be in writing. By appropriate written agreement, Contractor shall require each Subcontractor, so far as applicable to the Work to be performed by the Subcontractor, to be bound to Contractor by terms of the Contract Documents, and to assume toward Contractor all the obligations and responsibilities which Contractor assumes toward Owner in accordance with the Contract Documents. Each Subcontract shall preserve and protect the rights of Owner in accordance with the Contract Documents with respect to the Work to be performed by the Subcontractor so that subcontracting thereof will not prejudice such rights. Where appropriate, Contractor shall require each Subcontractor to enter into similar agreements with Sub-subcontractors. However, nothing in this paragraph shall be construed to alter the contractual relations between Contractor and its Subcontractors with respect to insurance or bonds.

D. Coordination of Subcontractors; Contractor responsible for Work: Contractor shall schedule, supervise, and coordinate the operations of all Subcontractors. No Subcontracting of any of the Work shall relieve Contractor from its responsibility for the performance of the Work in accordance with the Contract Documents or any other obligations of the Contract Documents.

E. Automatic assignment of subcontracts: Each subcontract agreement for a portion of the Work is hereby assigned by Contractor to Owner provided that:

1. Effective only after termination and Owner approval: The assignment is effective only after termination by Owner for cause pursuant to Section 9.01 and only for those Subcontracts which Owner accepts by notifying the Subcontractor in writing; and

2. Owner assumes Contractor's responsibilities: After the assignment is effective, Owner will assume all future duties and obligations toward the Subcontractor which Contractor assumed in the Subcontract.

3. Impact of bond: The assignment is subject to the prior rights of the surety, if any, obligated under any bond provided in accordance with the Contract Documents.

5.21 WARRANTY OF CONSTRUCTION

A. Contractor warranty of Work: In addition to any special warranties provided elsewhere in the Contract Documents, Contractor warrants that all Work conforms to the requirements of the Contract Documents and is free of any defect in equipment, material, or design furnished, or workmanship performed by Contractor.

B. Contractor responsibilities: With respect to all warranties, express or implied, for Work performed or materials furnished according to the Contract Documents, Contractor shall:

1. Obtain warranties: Obtain, assign if requested, and furnish directly to Owner, all warranties that would be given in normal commercial practice or that are required by the Contract Documents, first executed by the applicable Subcontractor and those suppliers and manufacturers furnishing materials for the Work, and subsequently countersigned by Contractor, which shall extend to Owner all rights, claims, benefits and interests that Contractor may have under express or implied warranties or guarantees against the Subcontractor, supplier or manufacturer for defective or non-conforming Work;

2. Warranties for benefit of Owner: Require all warranties to be executed, in writing, for the benefit of Owner;

3. Enforcement of warranties: Enforce all warranties for the benefit of Owner, if directed by Owner; and

4. Contractor responsibility for subcontractor warranties: Be responsible to enforce any subcontractor's, manufacturer's, or supplier's warranties should they extend beyond the period specified in the Contract Documents.

C. Warranties beyond Final Acceptance: The obligations under this section shall survive Final Acceptance.

5.22 INDEMNIFICATION

A. Contractor to indemnify Owner: To the fullest extent permitted by law, Contractor shall defend, indemnify, and hold Owner and A/E, their consultants, and agents and employees, directors, officers, lenders, successors and assigns of any of them (collectively, the "Indemnified Parties"), harmless from and against all third-party claims, demands, losses, damages, or costs, including but not limited to damages arising out of bodily injury or death to persons and damage to property, direct and indirect, or consequential (including but not limited to costs and attorneys' fees incurred on such claims or in proving the right to indemnification), arising out of, caused by or resulting from:

1. Sole negligence of Contractor: The sole negligence or willful misconduct of Contractor or any of its Subcontractors, their agents and anyone directly or indirectly employed by them or anyone for whose acts they may be liable ("Indemnitor");

2. Concurrent negligence: The concurrent negligence of Indemnitor, but only to the extent of the negligence of Indemnitor; and

3. Patent infringement: The use of any design, process, or equipment that constitutes an infringement of any United States patent presently issued, or violates any other proprietary interest, including copyright, trademark, and trade secret, unless specifically directed to use such design, process, or equipment by Owner.

The obligations of Contractor under this Section 5.22 shall not be construed to negate, abridge, or otherwise reduce any other right or obligations of indemnity that would otherwise exist as to any party or person described in this Section. To the extent the wording of this Section 5.22 would reduce or eliminate the insurance coverage of Owner or Contractor, this Section 5.22 shall be considered modified to the extent that such insurance coverage is not affected. To the extent that any portion of this Section 5.22 is stricken by a court or arbitrator for any reason, all remaining provisions shall retain their vitality and effect. The provisions of this Section 5.22 shall survive completion, acceptance, final payment and termination of the Contract.

B. Employee action and RCW Title 51: In any action against Owner and any other entity indemnified in accordance with this section, by any employee of Contractor, its Subcontractors, Sub-subcontractors, agents, or anyone directly or indirectly employed by any of them, the indemnification obligation of this section shall not be limited by a limit on the amount or type of damages, compensation, or benefits payable by or for Contractor or any Subcontractor under RCW Title 51, the Industrial Insurance Act, or any other employee benefit acts. In addition, Contractor waives immunity as to Owner and A/E only, in accordance with RCW Title 51.

PART 6 - PAYMENTS AND COMPLETION

6.01 CONTRACT SUM

Owner shall pay Contract Sum: Owner shall pay Contractor the Contract Sum plus Washington State sales tax for performance of the Work, in accordance with the Contract Documents.

6.02 SCHEDULE OF VALUES

Contractor to submit Schedule of Values: Before submitting its first Application for Payment, Contractor shall submit to Owner for approval a breakdown allocating the total Contract Sum to each principal category of work, in such detail as requested by Owner ("Schedule of Values"). The approved Schedule of Values shall allocate at least the percentage of the original Contract Sum so designated in the Contract Documents to that portion of the Work between Substantial Completion and Final Completion to recognize not-yet-earned costs for demobilization, Project Record, O&M manuals, and any other requirements for Project closeout and in advancing the Work from Substantial Completion to Final Completion. The approved Schedule of Values shall be used by Owner as a basis for reviewing progress payments. Payment for Work shall be made only for and in accordance with those items included in the Schedule of Values.

6.03 APPLICATION FOR PAYMENT

A. Monthly Application for Payment with substantiation: At monthly intervals, unless determined otherwise by Owner, Contractor shall submit to Owner an itemized Application for Payment for Work (using Owner's form) completed in accordance with the Contract Documents and the approved Schedule of Values. Each application shall be supported by such substantiating data as Owner may require.

B. Contractor certifies Subcontractors paid: By submitting an Application for Payment, Contractor is certifying that all Subcontractors have been paid, less earned retainage in accordance with RCW 60.28.011, as their interests appeared in the last preceding Application for Payment. By submitting an Application for Payment, Contractor is recertifying that the representations set forth in Section 1.03 are true and correct, to the best of Contractor's knowledge, as of the date of the Application for Payment. Owner has the right to request written evidence from Contractor that Contractor has properly paid Subcontractors and material and equipment suppliers amounts paid by Owner to Contractor for subcontracted Work. Owner shall have the right to contact Subcontractors to ascertain whether they have been properly paid. Owner shall not have an obligation to pay or to see to the payment of money to a Subcontractor, except as may otherwise be required by law.

C. Reconciliation of Work with Progress Schedule: At the time it submits an Application for Payment, Contractor shall analyze and reconcile, to the satisfaction of Owner, the actual progress of the Work with the Progress Schedule. The submission of an Application for Payment constitutes a certification that the Work is current on the Progress Schedule.

D. Payment for material delivered to site or stored off-site: If authorized by Owner, the Application for Payment may include request for payment for material delivered to the Project site and suitably stored, or for completed preparatory work. Payment may similarly be requested for material stored off the Project site, provided Contractor complies with or furnishes satisfactory evidence of the following:

1. Suitable facility or location: The material will be placed in a facility or location that is structurally sound, dry, lighted and suitable for the materials to be stored or otherwise approved by Owner;

2. Facility or location within 10 miles of Project: The facility or location is located within a 10-mile radius of the Project. Other locations may be utilized, if approved in writing, by Owner;

3. Facility or location exclusive to Project's materials: Only materials for the Project are stored within the facility or location (or a secure portion of a facility or location set aside for the Project);

4. Insurance provided on materials in facility or location: Contractor furnishes Owner a certificate of insurance extending Contractor's insurance coverage for damage, fire, and theft to cover the full value of all materials stored, or in transit;

5. Facility or location locked and secure: The facility or location (or secure portion thereof) is continuously under lock and key, and only Contractor's authorized personnel shall have access;

6. Owner right of access to facility or location: Owner shall at all times have the right of access in company of Contractor;

7. Contractor assumes total responsibility for stored materials: Contractor and its surety assume total responsibility for the stored materials; and

8. Contractor provides documentation and Notice when materials moved to site: Contractor furnishes to Owner certified lists of materials stored, bills of lading, invoices, and other information as may be required, and shall also furnish Notice to Owner when materials are moved from storage to the Project site.

6.04 PROGRESS PAYMENTS

A. Owner to pay within 30 Days: Owner shall make progress payments, in such amounts as Owner determines are properly due, within 30 Days after receipt of a properly executed Application for Payment. Owner shall notify Contractor in accordance with chapter 39.76 RCW if the Application for Payment does not comply with the requirements of the Contract Documents.

B. Withholding retainage; Options for retainage: Owner shall retain 5% of the amount of each progress payment until 45 Days after Final Acceptance and receipt of all documents required by law or the Contract Documents, including, at Owner's request, consent of surety to release of the retainage. In accordance with chapter 60.28 RCW, Contractor may request that monies reserved be retained in a fund by Owner, deposited by Owner in a bank or savings and loan, or placed in escrow with a bank or trust company to be converted into bonds and securities to be held in escrow with interest to be paid to Contractor. Owner may permit Contractor to provide an appropriate bond in lieu of the retained funds.

C. Title passes to Owner upon payment: Title to all Work and materials covered by a progress payment shall pass to Owner at the time of such payment free and clear of all liens, claims, security interests, and encumbrances. Passage of title shall not, however, relieve Contractor from any of its duties and responsibilities for the Work or materials, or waive any rights of Owner to insist on full compliance by Contractor with the Contract Documents. A progress payment, or partial or entire use or occupancy of the Project by Owner, shall not constitute acceptance of Work.

D. Interest on unpaid balances: Payments due and unpaid in accordance with the Contract Documents shall bear interest as specified in chapter 39.76 RCW.

6.05 PAYMENTS WITHHELD

A. Owner's right to withhold payment: Owner may withhold or, on account of subsequently discovered evidence, nullify the whole or part of any payment to such extent as may be necessary to protect Owner from loss or damage for reasons including but not limited to:

1. Non-compliant Work: Work not in accordance with the Contract Documents;

2. Remaining Work to cost more than unpaid balance: Reasonable evidence that the Work required by the Contract Documents cannot be completed for the unpaid balance of the Contract Sum;

3. Owner correction or completion of Work: Work by Owner to correct defective Work or complete the Work in accordance with Section 5.16;

4. Third party claims for which Contractor may be responsible: Claims (except where an insurer has unconditionally accepted coverage without prior payment of any deductibles or self-insured retentions) filed or reasonable evidence indicating probable filing of such claims unless Contractor provides security acceptable to Owner;

5. Failure to pay Subcontractor: The failure of Contractor to make payments to Subcontractors for labor, materials or equipment;

6. Damages: Damage to Owner or a separate contractor (except where an insurer has unconditionally accepted coverage);

7. Affidavits of Wages Paid: Failure to submit affidavits pertaining to wages paid as requested or otherwise required by statute;

8. Progress Schedule: Failure to submit a properly updated Progress Schedule;

9. Maintenance of Project Record: Failure to properly maintain as the Project Record;

10. Other construction records: Failure to properly submit any other required construction reports or records;

11. Certified payrolls: Failure to properly submit certified payrolls when requested;

12. Contractor's failure to perform: Contractor's failure otherwise to perform in accordance with the Contract Documents; or

13. Contractor's negligent acts or omissions: Cost or liability that may occur to Owner as the result of Contractor's fault or negligent acts or omissions.

B. Owner to notify Contractor of withholding for unsatisfactory performance: In any case where part or all of a payment is going to be withheld for unsatisfactory performance, Owner shall notify Contractor in accordance with chapter 39.76 RCW.

6.06 RETAINAGE, BOND CLAIM RIGHTS, AND LIENS

A. Chapters 39.08 RCW and 60.28 RCW incorporated by reference: Chapters 39.08 RCW and 60.28 RCW, concerning the rights and responsibilities of Contractor and Owner with regard to the performance and payment bonds and retainage, are made a part of the Contract Documents by reference as though fully set forth herein.

B. Liens: Contractor shall promptly pay (and secure the discharge of any liens asserted by) all persons properly furnishing labor, equipment, materials or other items in connection with the performance of the Work (including, but not limited to, any Subcontractors) to the extent that Owner has paid Contractor for this Work. Owner may, at its option, withhold payment, in whole or in part, to Contractor until lien and claim releases are furnished. Contractor may provide other security acceptable to Owner, such as a bond, in lieu of paying disputed liens or claims. Contractor shall defend, indemnify, and hold harmless Owner from any liens, including all expenses and attorneys' fees, except to the extent a lien has been recorded because of a failure of payment by Owner for the Work implicated in any such lien.

6.07 SUBSTANTIAL COMPLETION

A. Substantial Completion defined: Substantial Completion is the stage in the progress of the Work (or portion thereof designated and approved by Owner) when the construction is sufficiently complete, in accordance with the Contract Documents, so Owner has full and unrestricted use and benefit of the facilities (or portion thereof designated and approved by Owner) for the use for which it is intended, the Project has been constructed in substantial accordance with the Contract Documents, and at a minimum the following elements have been accomplished (see also, Section 01 70 00 Project Completion):

1. A written punch list has been prepared;

2. The Authority Having Jurisdiction has granted a certificate of occupancy; and

3. The first final draft of the Operation and Maintenance manuals has been submitted to Owner.

All Work other than incidental corrective or punch list work shall be completed. Substantial Completion shall not have been achieved if the Work cannot achieve Final Completion within the time specified in the Agreement. The date Substantial Completion is achieved shall be established in writing by Owner. Contractor may request an early date of Substantial Completion which must be approved by Change Order. Owner's occupancy of the Work or designated portion thereof does not necessarily indicate that Substantial Completion has been achieved.

B. Contractor to provide weekly reports before Substantial Completion: Beginning at least 30 Days before the scheduled date of Substantial Completion, Contractor shall prepare reports weekly, identifying items to be completed in order to obtain necessary occupancy certificates and permits, and make recommendations to Owner for effectuating the earliest possible completion. When Contractor considers that the Work, or a portion thereof that Owner agrees to accept separately, has achieved Substantial Completion, Contractor shall prepare and submit to Owner a comprehensive list of items to be completed or corrected prior to final payment. Contractor shall proceed promptly to complete and correct items on the list. Failure to include an item on the list does not alter the responsibility of Contractor to complete all Work in accordance with the Contract Documents.

C. Owner to determine if Work is complete: Upon receipt of Contractor's list, Owner will make an inspection to determine whether the Work or designated portion thereof has achieved Substantial Completion. If Owner's inspection discloses any item, whether or not included on Contractor's list, that is not sufficiently complete in accordance with the Contract Documents so that Owner can occupy or utilize the Work or designated portion thereof for its intended use, Contractor shall, before the occurrence of Substantial Completion, complete or correct the item upon notification by Owner, and Contractor shall then submit a request for another inspection by Owner to determine Substantial Completion. If Owner determines that the Work or designated portion has not achieved Substantial Completion, Contractor shall expeditiously complete the Work or

designated portion, again request an inspection, and pay the costs associated with the re-inspection.

D. Owner may take over punch list: If, at 30 Days after the date of Substantial Completion, Owner considers that the remaining items on its list ("punch list") are unlikely to be completed within the time period specified in the Contract Documents for Final Completion, Owner may, upon seven Days' written Notice to Contractor, take over and perform some or all of the punch list items. If Contractor fails to correct the deficiencies within the time period specified, Owner may deduct the actual cost of performing this punch list work, including any design costs, plus ten 10% to account for Owner's transaction costs, from the Contract Sum.

E. Owner to establish date of Substantial Completion: When the Work or designated portion thereof has achieved Substantial Completion, Owner shall establish the date of Substantial Completion in writing, establish responsibilities of Contractor for security, maintenance, heat, utilities, damage to the Work and insurance, and fix the time within which Contractor shall finish all items on the list accompanying the document. The writing establishing Substantial Completion shall be submitted to Contractor for its written acceptance of the responsibilities assigned to it. Any items not included in the document but required or necessary for Final Completion of the Work shall be supplied and installed by Contractor as a part of the Contract Sum, notwithstanding their not being included in the punch list. Upon written acceptance of the writing establishing Substantial Completion by Contractor and Owner, and upon Contractor's Application for Payment, Owner shall make payment as provided in the Contract Documents. Such payment shall be adjusted for Work that is incomplete or not in accordance with the requirements of the Contract Documents. No further payment will be due or owing until the payment following Final Completion.

F. Contractor to complete punch list in timely manner: Contractor shall prepare, continue to monitor, and cause to be completed, all punch lists with respect to the activity of each Subcontractor and report weekly to Owner on outstanding punch list items.

6.08 PRIOR OCCUPANCY

A. Prior Occupancy defined; Restrictions: Owner may, when legally permissible to do so and upon written Notice to Contractor, take possession of or use any completed or partially completed portion of the Work ("Prior Occupancy") at any time prior to Substantial Completion, and Contractor shall cooperate with such occupancy and use and the establishment of a punch list. Unless otherwise agreed in writing, Prior Occupancy shall not: be deemed an acceptance of any portion of the Work; accelerate the time for any payment to Contractor; prejudice any rights of Owner provided by any insurance, bond, guaranty, or the Contract Documents; relieve Contractor of the risk of loss or any of the obligations established by the Contract Documents; establish a date of Substantial or Final Completion; establish a date for termination or partial termination of the assessment of liquidated damages; or constitute a waiver of claims.

B. Damage; Duty to repair and warranties: Notwithstanding anything in the preceding paragraph, Owner shall be responsible for loss of or damage to the Work resulting from Prior Occupancy. Contractor's one year duty to repair any system warranties shall begin on building systems activated and used by Owner as agreed in writing by Owner and Contractor.

6.09 FINAL COMPLETION, ACCEPTANCE, AND PAYMENT

A. Final Completion defined: Final Completion shall be achieved when the Work is fully and finally complete in accordance with the Contract Documents. The date Final Completion is achieved shall be established by Owner in writing, but in no case shall it constitute Final Acceptance, which is a subsequent, separate, and distinct action (see also, Section 01 70 00 Project Completion).

B. Final Acceptance defined: Unless otherwise determined by Owner, Final Acceptance shall be achieved after Contractor has completed all the requirements of the Contract Documents. The date Final Acceptance is achieved shall be established by Owner in writing. Pursuant to RCW 60.28, "Lien for Labor, Materials, Taxes on Public Works," completion of the Contract Work shall occur upon Final Acceptance. Neither Final Acceptance nor final payment shall release Contractor or its sureties from any obligations of these Contract Documents or the payment and performance bonds, or constitute a waiver of any claims by Owner arising from Contractor's failure to perform the Work in accordance with the Contract Documents (see also, Section 01 70 00 Project Completion).

C. Final payment waives Claim rights: Acceptance of final payment by Contractor or any Subcontractor shall constitute a waiver and release to Owner of all claims by Contractor or any such Subcontractor for an increase in the Contract Sum or the Contract Time, and for every act or omission of Owner relating to or arising out of the Work, except for those Claims made in accordance with the procedures, including the time limits, set forth in Part 8.

PART 7 - CHANGES

7.01 CHANGE IN THE WORK

A. Changes in the Work: Changes in the Work may be accomplished after execution of the Contract without invalidating the Contract. Changes in the Work that adjust the Contract Sum and/or Contract Time are incorporated into the Contract solely by Change Order and are subject to the limitations stated in this Part 7 and elsewhere in the Contract Documents. A Change Order may be bilateral or unilateral, as described below. Change Orders may be initiated by mutual agreement or through a Contract Change Proposal ("CCP") or Work Directive ("WD").

B. Change Orders:

1. A Bilateral Change Order is signed by Owner and Contractor to record their agreement on the terms of a change in the Work. A Bilateral Change Order may reflect the agreement of Owner and Contractor on a standalone issue, or it may incorporate one or more mutually agreed upon CCPs or WDs. A Bilateral Change Order shall constitute full payment and final settlement of all claims for time and cost, including direct, indirect, impact and consequential costs, related to the Change Order and Work covered by, affected by and related to the events giving rise to the Change Order.

2. A Unilateral Change Order is initially signed only by Owner to set forth, subject to the Contract, the terms of a change in the Work based upon one or more CCPs and/or WDs to which the parties have not yet fully agreed. Within 7 Days of its receipt of a Unilateral Change Order, Contractor shall notify Owner in writing either (a) of its acceptance of its terms, in which case the Unilateral Change Order will automatically become a Bilateral Change Order, or (b) of Contractor's rejection, in which case Contractor must submit a written rejection within 14 Days after Contractor delivered written Notice of rejection to Owner as noted above. The written rejection must fully explain the reasons for rejecting the Unilateral Change Order and include all necessary supporting documentation. The rejection will then be considered in accordance with Section 8.02 (Informal Resolution of Disputes). Failure to submit a written Notice of rejection within 7 Days of Contractor's receipt of a Unilateral Change Order or a written rejection with 14 Days shall constitute Contractor's acceptance of the terms of the Unilateral Change Order.

C. Change Orders via Contract Change Proposal:

1. Contractor shall be responsible for maintaining an Issues Log. If Contractor at any time believes that a change in the Work has or may have occurred, Contractor shall add such item to the Issues Log. At a minimum, the Issues Log shall identify:

   a. Detailed scope of the change in the Work;

   b. Contract Time impact noting specifically how it impacted the critical path of the project, if any;

   c. The amount of any anticipated, proposed, or approved change in the Contract Sum;

   d. Date first included on the Issues Log;

   e. Owner-initiated or Contractor-initiated; and

   f. Action status.

2. If the Contractor believes an item on the Issues Log warrants a CCP, Contractor shall provide written Notice to Owner in accordance with Section 8.02, and shall submit a written CCP in accordance with this Section. All CCPs shall be substantiated and submitted within 7 Days of being added to the Issues Log along with a revised progress schedule identifying the time impact affecting the critical path, if any. The CCP shall identify the proposed full compensation for implementing the proposed change in the Work, including any adjustment in the Contract Sum or Contract Time. Upon receipt of the CCP, Owner may accept the proposal and incorporate it into a Bilateral Change Order, reject the proposal and either issue a WD or elect not to proceed with the proposal, request further documentation, or negotiate acceptable terms with Contractor.

D. Work Directives:

1. A WD is a written order prepared by Owner that directs Contractor to perform Work prior to total agreement on an adjustment, if any, in the Contract Sum and/or Contract Time. Owner may direct Contractor, at any time and without invalidating the Contract, through a WD to proceed with a change in the Work or to perform Work that Contractor contends to be a change in the Work, with or without the agreement of Contractor and prior to agreement of the basis for adjustment, if any, to the Contract. Owner's use of a WD does not constitute agreement that the directive constitutes a change in the Work, the Contract Sum or the Contract Time.

2. A WD normally includes:

   a. The scope of the directed Work,

   b. Any proposed adjustment to the Contract Sum or not-to-exceed amount,

   c. Any proposed change to the Contract Time,

   d. The proposed method of determining any change in the Contract Sum and/or Contract Time, and

e. The supporting data that Contractor must submit in accordance with the requirements of Part 7 of the General Conditions.

3. Upon receipt of a WD, Contractor shall promptly commence and proceed diligently with performance of the directed Work. Within 7 Days of its receipt of a WD, Contractor shall notify Owner in writing either (a) of its acceptance of its terms, in which case the terms will become effective, and the WD will be incorporated into a Bilateral Change Order, or (b) of Contractor's rejection of the terms, in which case Contractor must submit a written rejection within 14 Days after Contractor delivered written Notice to Owner as noted above. The written rejection must fully explain the reasons for rejecting the WD and include all necessary supporting documentation. The rejection will then be considered in accordance with Section 8.02. Contractor's rejection of a WD shall not relieve Contractor of its obligation to comply promptly with the WD.

E. Contractor fault or negligence alleged as basis for change in Contract Sum: No change in the Contract Sum shall be allowed to the extent Contractor's changed cost of performance is due to the fault or negligence of Contractor or anyone for whose acts Contractor is responsible; or to the extent Contractor is responsible for change concurrently caused by Contractor and Owner; or to the extent the change is caused by an act of Force Majeure as defined in Section 3.05.

7.02 CHANGE IN THE CONTRACT SUM

A. General Application

1. Contract Sum changes only by Change Order: The Contract Sum shall only be changed by a Change Order.

2. Allowances: Any Allowances stated in the Contract Documents shall be included in the Contract Sum. Items covered by Allowances shall be supplied for such amounts and by such persons or entities as Owner may direct, but Contractor shall not be required to employ persons or entities to whom Contractor has made reasonable and timely objection. Owner shall select materials and equipment under an Allowance with reasonable promptness. Allowances shall cover the net cost to Contractor of materials and equipment delivered and/or installed at the site, as identified in the Allowance, and all required taxes, less applicable trade discounts. Whenever actual costs are more than or less than Allowances, the Contract Sum shall be adjusted accordingly by Change Order. The amount of the Change Order shall reflect the difference between actual, reasonable costs and the Allowances.

3. Pricing Components: Contractor shall maintain and submit a complete itemization of the costs incurred as a result of any change in the Work, including labor, material, Subcontractor costs, and fee. The total cost of any change in the Work or of any other increase or decrease in the Contract Sum, including a Claim, shall be limited to the actual, reasonable amounts for the following components, itemized in the manner set forth below and submitted on breakdown sheets in a form approved by Owner. If the total cost of the change in the Work does not exceed $5,000.00, Contractor shall not be required to submit a breakdown if the description of the change in the Work is sufficiently definitive for Owner to determine fair value.

   a. Labor costs: The labor cost component is determined by multiplying the estimated or actual additional number of hours needed to perform the change in the Work by the fully burdened hourly labor costs. The fully burdened hourly costs shall include the following:

(1) Basic wages and benefits: Hourly rates and benefits as stated on the Department of Labor and Industries approved "Statement of Intent to Pay Prevailing Wages" shall be applicable unless a high, documented amount is actually paid by a contractor for the laborers, apprentices, journeymen, foremen, and other staff performing and/or directly supervising the change in the Work at the site. Any amount in excess of approved "Statement of Intent to Pay Prevailing Wages" shall be substantiated and subject to audit.

(2) Worker's insurance: Direct contributions to the State of Washington for industrial insurance; medical aid; and supplemental pension, by the class and rates established by the Department of Labor and Industries.

(3) Federal insurance: Direct contributions required by the Federal Insurance Compensation Act; Federal Unemployment Tax Act; and the State Unemployment Compensation Act.

(4) Supervision: The labor cost component may include the actual, demonstrated additional supervision hours (not already compensated by Owner) directly related to a change in the Work.

(5) Travel and Per Diem allowance: Travel allowance and/or subsistence, if applicable, required by regional labor union agreements, which are itemized and identified separately.

b. Material costs: The material cost component must be itemized and include material invoices or reasonable lump-sum estimates of the quantity and cost of additional materials needed to perform the change in the Work. Material costs shall be developed first from actual known costs; second from supplier quotations; and, if neither of these is available, then from standard industry pricing guides acceptable to Owner. Material costs shall consider all available discounts. Freight costs, express charges, or special delivery charges shall be itemized.

c. Equipment costs: The equipment cost component must be itemized by the type of equipment and include the estimated or actual length of time the construction equipment appropriate for the Work is or will be used on the change in the Work on site. Costs will be allowed for construction equipment only to the extent used solely for the changed Work, or for additional rental costs actually incurred by Contractor solely for the changed Work. Equipment charges shall be computed on the basis of actual invoice costs or, if owned, from the current edition of the Associated General Contractors Washington State Department of Transportation (AGC WSDOT) Equipment Rental Agreement current edition as of the Contract execution date. The EquipmentWatch Rental Rate Blue Book shall be used as a basis for establishing rental rates of equipment not listed in the above source. The maximum rate for standby equipment shall not exceed that shown in the AGC WSDOT Equipment Rental Agreement. The rate for Contractor-owned equipment necessarily standing by for future use on the changed Work shall be no more than 50% of the rate established above unless otherwise approved by Owner. The total rental cost shall not exceed the cost of purchasing the equipment outright.

d. Subcontractor costs: The Subcontractor cost component consists of payments Contractor makes to Subcontractors for the cost of changed Work performed by

Subcontractors. Subcontractors' costs shall be calculated and itemized in the same manner as prescribed herein for Contractor.

e. Fee: The Fee component is compensation for all items and costs not listed in subparagraphs a through d above, and is added to the total cost to Owner of the sum of these items. The Fee shall compensate Contractor, Subcontractor and suppliers for, among other things, combined overhead, profit and other costs, including all office, home office and site overhead, employee per diem, subsistence and travel costs not separately reimbursable under subparagraph a above, warranty, safety costs, printing and copying, quality control/assurance, purchasing, small or hand tool (a tool that costs $250 or less and is normally furnished by the performing contractor) or expendable charges, temporary construction facilities, field engineering, schedule updating, Project Record, home office cost, taxes (including all taxes except B&O tax and Washington State sales tax payable based on the amount of the approved Application for Payment), office engineering, estimating costs, additional overhead because of extended time, Claim and change preparation, direct and indirect delay, acceleration or impact, and any other cost incidental to the change in the Work. The Fee shall be strictly limited in all cases to the rates below.

(1). Contractor markup on Contractor Work: Contractor is allowed a Fee for any Work actually performed by Contractor's own forces of 16% of the first $50,000 of the cost of such Work and 4% of the remaining cost, if any.

(2). Subcontractor markup for Subcontractor Work: Each Subcontractor (including lower-tier Subcontractors) is allowed a Fee for any Work actually performed by its own forces of 16% of the first $50,000 of the cost of such Work and 4% of the remaining cost, if any.

(3). Contractor markup for Subcontractor Work: Contractor is allowed a Fee for any Work performed by its Subcontractor(s) of 6% of the first $50,000 of the amount due each Subcontractor for such Work and 4% of the remaining amount, if any.

(4). Subcontractor markup for lower-tier Subcontractor Work: Each Subcontractor is allowed a Fee for any Work performed by its Subcontractor(s) of any lower-tier of 4% of the first $50,000 of the amount due the lower-tier Subcontractor for such Work and 2% of the remaining amount, if any.

(5). Basis of cost applicable for markup: The cost of the Work to which the Fee is to be applied shall be based on the cost components in subparagraphs 7.02.A 3.a – d.

(6). Application of Fee: The Fee shall not be included on deductive changes in the Work. Where a change in the Work involves additive and deductive work by Contractor or the same Subcontractor, the Fee as well as bond and insurance markups will apply to the net difference.

f. Insurance and bond premiums: The cost of any change in insurance or bond premium is added to the sum of the cost components in subparagraphs 7.02.A 3.a – e and is limited to the following:

(1) Contractor's liability insurance: The cost of any changes in Contractor's contractually required liability insurance arising directly from the Change Order; and

(2) Payment and Performance Bond: The cost of any additional premium for Contractor's contractually required bond arising directly from the Change Order.

g Tax: Washington State sales tax and B&O tax arising directly from the Change Order shall be added to the cost of the Change Order.

h. Unit Prices: If Unit Prices, including pre-agreed rates for material quantities, are applicable to a change in the Work, the Unit Prices shall be applied to the quantities of the items involved as determined in Section 7.02A. Quantities must be supported by field measurement statements signed by Owner. Owner shall be afforded access and be permitted to measure quantities. Contractor shall not exceed any cost limit(s) without Owner's prior written approval. Unit Prices shall include reimbursement for all direct and indirect costs of the Work, but exclude Fee (7.02 A.e), bond, and insurance costs (7.02 A.f.).s.

7.03 CHANGE IN THE CONTRACT TIME

A. Changes in Contract Time: The Contract Time shall only be changed by a Change Order.

B. Time extension permitted only if delay is not Contractor's fault: If Contractor is delayed at any time in the commencement or progress of the Work (1) by an act or neglect of Owner or anyone for whose acts Owner is responsible; or (2) by changes ordered by Owner in the Work; or (3) by Force Majeure; or (4) by delay authorized by Owner pending dispute resolution; or (5) by other causes that Owner determines may justify delay, then Contractor shall reasonably attempt to mitigate the delay, and the Contract Time shall be extended by Change Order for such reasonable time as Owner may reasonably determine consistent with the provisions of the Contract Documents. No adjustment in the Contract Time shall be allowed to the extent Contractor's changed time of performance is due to the fault or negligence of Contractor or anyone for whose acts Contractor is responsible.

C. Contractor must demonstrate impact on critical path of schedule: Any change in the Contract Time covered by a Change Order or Claim shall be limited to the change in the critical path of the Work attributable to the change or event(s) giving rise to the Change Order or Claim. Contractor shall be responsible for showing clearly on the Progress Schedule that the change or event had a specific impact on the critical path and, except in case of concurrent delay, was the sole cause of such impact, and could not have been avoided by resequencing of the Work or other reasonable alternatives in accordance with Section 01 32 13 Project Schedule.

D. Cost arising from change in Contract Time: Contractor is entitled to compensation for the cost of a change in Contract Time only if all the following conditions are met:

1. Must be solely fault of Owner: The change in Contract Time must solely be caused by the fault or negligence of Owner or others for whom Owner is responsible;

2. Procedures: Contractor must follow the procedure set forth in Section 7.03B and Section 8.02;

3. Demonstrate impact on critical path: Contractor must establish the extent of the change in Contract Time in accordance with Section 7.03C and Section 01 32 13 Project

Schedule. Owner is not obligated directly or indirectly for damages or an increase in the Contract Sum for any delay suffered by a Subcontractor that does not increase the Contract Time; and

4. Cost measured exclusively by the pricing components of Section 7.02A.3: If Contractor or a Subcontractor of any tier is entitled to compensation arising from or related to a change in Contract Time, the pricing components of Section 7.02A.3 shall exclusively be used to measure the actual costs incurred as a result of the change in Contract Time. Neither Contractor nor a Subcontractor of any tier is entitled to payment for costs arising out of actual or alleged loss of efficiency; morale, fatigue, attitude, or labor rhythm; home office overhead; expectant underrun; trade stacking; reassignment of workers; rescheduling of work; concurrent operations; dilution of supervision; learning curve; beneficial or joint occupancy; logistics; ripple; season change; extended overhead; profit upon damages for delay; impact damages, including cumulative impact; or similar damages.

PART 8 - CLAIMS AND DISPUTE RESOLUTION

8.01 CLAIMS

A. Definition: A Claim is a demand or assertion by one of the parties seeking, as a matter of right, adjustment or interpretation of the Contract terms, payment of money, extension of time or other relief with respect to the terms of the Contract Documents. The term “Claim” also includes other disputes and matters in question between Owner and Contractor arising out of or relating to the Contract Documents. Claims must be initiated in writing and be made in accordance with the Contract Documents. Neither a CCP, a Request for Information, a Bilateral or Unilateral Change Order, a reservation of rights, minutes of a meeting, a daily report, or a log entry shall constitute a Claim or Notice of a Claim. However, Owner and Contractor may agree in a signed writing to supplement how Contractor can provide a Notice of Claim as specified in this Part 8.

B. Continuing Contract performance: Pending final resolution of a Claim, including the dispute resolution process in Part 8, and except as otherwise agreed in writing or in the Contract Documents, Contractor shall proceed diligently with performance of the Work and maintain the Progress Schedule, and Owner shall continue to make payments of undisputed amounts in accordance with the Contract Documents.

C. Claims for additional cost: If Contractor wishes to make a Claim for an increase in the Contract Sum, written Notice as provided herein shall be given before proceeding to execute the Work, and written Notice and a written Claim must be made in accordance with this Part 8, or it will be waived.

D. Claims for additional time: If Contractor wishes to make a Claim for an increase in the Contract Time, written Notice as provided herein shall be given, and a written Claim must be made in accordance with this Part 8, or it will be waived.

E. Claims for consequential damages: Contractor and Owner waive certain Claims against each other for consequential damages arising out of or relating to this Contract. This mutual waiver includes damages incurred by Owner for profit, financing, business and reputation, and for loss of management or employee productivity or of the services of such persons; and damages incurred by Contractor for principal and home office overhead and expenses including but not limited to the compensation of personnel stationed there, for loss of financing, business and/or reputation, for losses on other projects, for loss of profit, and for interest or financing costs. This mutual waiver is applicable, without limitation, to all consequential damages due to either party’s termination. Nothing contained in this subparagraph E, however, shall be deemed to preclude an

award of liquidated or other delay damages, when applicable, in accordance with the Contract Documents, or to preclude or limit Contractor's obligation to procure and maintain the insurance policies required by this Contract or indemnify Owner for damages, including direct, indirect or consequential damages, alleged by a third party.

8.02 INFORMAL RESOLUTION OF DISPUTES

A. Procedure to reduce disputes: In an effort to reduce the incidence and cost to all parties of extended disputes, all disputes, direct or indirect, arising out of or relating to the Contract Documents or the breach thereof, except those that have been waived under the terms of the Contract Documents, shall be decided exclusively by the dispute resolution procedure of Part 8 unless the parties mutually agree in writing otherwise. To the extent that Owner and Contractor agree to a partnering or dispute review process to help address disputes, these processes shall be in addition to, and not in place of, the mandatory contractual dispute resolution procedures.

B. Notice: Except for disputes requiring Notice before proceeding with the affected Work as otherwise described in the Contract Documents, Contractor shall submit a written Notice of any Claim to Owner's Project Manager, consistent with the requirements of the Contract Documents, within 7 Days of the occurrence of the event giving rise to a dispute. If Contractor did not have actual knowledge of such an event, the written Notice shall be submitted within 7 Days of the date that Contractor reasonably should have been aware of the event. The Notice shall set forth, at a minimum, a description of the event(s) leading to or causing the dispute, the nature of the impacts to Contractor and its Subcontractors, if any, and an estimate of any claimed adjustments in the Contract Sum and/or Contract Time. Without waiving any rights, Owner and Contractor may discuss and attempt to resolve a dispute identified in a Notice of Claim directly with each other or with a third-party neutral or dispute review board if utilized on a Project.

C. Substantiation: If an issue remains unresolved, Contractor shall submit timely written substantiation to support Contractor's position relating to the Notice of Claim. Such substantiation, which shall include an explanation of Contractor's position and any supporting documentation, shall be provided within 30 Days of submitting a Notice. Contractor may delay submitting data by an additional 14 Days if it notifies Owner that substantial data must be assembled.

D. Owner's Project Manager to make initial decision on all disputes: After Contractor has submitted written substantiation to Owner that complies with all applicable provisions of Parts 7 and 8, as well as Section 01 32 13, Project Schedule, Owner's Project Manager will endeavor to respond, in writing, to Contractor within 7 Days of the date substantiation is received, or with Notice to Contractor of the date by which Owner's Project Manager expects to render a decision. If necessary to fully and fairly evaluate an issue, the Project Manager may request additional information or extend the time in which to respond. If the issue is not resolved, or if Project Manager does not respond within the later of 7 Days of the date written substantiation is received or the date specified for rendering a decision, the dispute may be escalated by Contractor to Owner's Assistant Vice President, Facilities Services, Capital as set forth in Section 8.02E below.

E. Contractor may respond to initial decision: The initial decision of the Project Manager will be final and conclusive unless, within 7 Days of the date Contractor receives the initial decision or the date specified for rendering a decision, Contractor notifies Owner's Project Manager in writing of Contractor's disagreement with the initial decision, in which case Contractor must then submit a written rejection to Owner's Assistant Vice President, Facilities Services, Capital within 14 Days. The written rejection must attach the submitted Notice and substantiation and fully explain the reasons for Contractor's disagreement with the initial decision. It must also include all applicable supporting documentation. Failure to submit a written rejection to Owner's Assistant Vice

President, Facilities Services, Capital within 14 Days shall constitute Contractor's acceptance of the initial decision.

F. Assistant Vice President, Facilities Services, Capital decision: Following Contractor's full compliance with the procedure above, Owner's Assistant Vice President, Facilities Services, Capital will endeavor to respond in writing to Contractor with a decision within 7 Days of delivery of the Contractor's rejection or with Notice to Contractor of the date by which Owner's Assistant Vice President, Facilities Services, Capital expects to render a decision. If Owner's Assistant Vice President, Facilities Services, Capital does not respond within the later of 7 Days after delivery of the rejection or the date specified to render a decision, the dispute will be deemed denied and Contractor may further escalate the dispute as set forth in Section 8.02G below.

G. Claim: If Contractor disagrees with the decision of the Assistant Vice President, Facilities Services, Capital, or if no decision is timely received, Contractor shall timely submit a Claim if it wishes to pursue formal dispute resolution or seek additional relief against Owner of any kind. A Claim must be consistent with the Notice, substantiation and rejection previously provided, be submitted to Owner in writing within 14 Days of the date the decision of the Assistant Vice President, Facilities Services, Capital is received by Contractor or due, and comply with Section 8.04. Any claim of a Subcontractor of any tier may be brought only through, and after review by, Contractor. Contractor acknowledges and agrees that no additional documentation from what was submitted to Owner's Assistant Vice President, Facilities Services, Capital (per part 'F' of this section) may be submitted and considered in any subsequent dispute resolution proceeding. Contractor's failure to provide timely information for Owner's consideration during the dispute resolution procedure of Part 8 has a substantial impact upon and prejudices Owner, including but not limited to its inability to fully investigate or verify a Claim, mitigate damages, choose alternative options, adjust the budget, delete or modify the impacted Work, and/or monitor time, cost and quantities.

8.03 FORMAL RESOLUTION OF CLAIMS

A. Option for direct discussions: At any time following Contractor's initiation of formal dispute resolution, Owner may require that an officer of Contractor and Owner's Assistant Vice President, Facilities Services, Capital (all with authority to settle) meet, confer, and attempt to resolve the Claim. If the Claim is not resolved during such meeting, or if no such meeting is requested, Contractor may bring no litigation against Owner unless Contractor complies with the procedures described in Sections 8.03B and C. This requirement cannot be waived except by an explicit written waiver signed by Owner and Contractor.

B. Mediation:

1. Mediation required: Claims, disputes, or other matters in controversy arising out of or related to the Contract shall be subject to mediation as a condition precedent to the initiation of binding dispute resolution. This requirement cannot be waived except by an explicit written waiver signed by both Owner and Contractor. Unless Owner and Contractor mutually agree in writing otherwise, all unresolved Claims shall be considered at a single mediation session that shall occur after Substantial Completion and prior to Final Acceptance by Owner.

2. Mediation procedure: The parties shall endeavor to resolve Claims by mediation. A request for mediation shall be delivered in writing to the other party to the Contract, and the parties shall promptly attempt to mutually agree on a mediator. If the parties do not agree on a mediator within 30 Days of a party's demand, the mediation, unless the parties mutually agree otherwise, shall be administered by the American Arbitration Association in accordance with its Construction Industry Mediation Procedures in effect

on the date of the Agreement. Mediation shall proceed in advance of binding dispute resolution proceedings.

3. Mediation fee to be shared: The parties to the mediation shall share the mediator's fee and any filing fees equally. The mediation shall be held in the place where the Project is located, unless another location is mutually agreed upon. Agreements reached in mediation shall be enforceable as settlement agreements in any court having jurisdiction.

4. Representatives with authority must attend mediation: Representatives of Contractor and Owner must attend the mediation session in person with authority to settle the Claim. To the extent there are other parties in interest, such as A/E, insurers or Subcontractors, their representatives, also with authority to settle the Claim, shall also attend the mediation session in person.

C. Litigation: Contractor may bring no litigation on a Claim unless the Claim has been raised and considered in accordance with the procedures of this Part 8, including mandatory mediation. Contractor shall have the burden to demonstrate in any litigation that it has complied with all requirements of this Part 8. All unresolved Claims of Contractor shall be waived and released unless Contractor has complied with the time limits of the Contract Documents, and litigation is served and filed within 180 Days after the Date of Substantial Completion approved in writing by Owner. This requirement cannot be waived except by an explicit, written waiver signed by Owner and Contractor. The pendency of a mediation, which shall mean the time period between a party's receipt of a written mediation demand and the date of the initial mediation session, shall stay this deadline for serving and filing a lawsuit. The deadline may also be stayed for an additional period by agreement of the parties or court order. Neither Contractor nor a Subcontractor, whether claiming under a bond or lien statute or otherwise, shall be entitled to attorneys' fees directly or indirectly from Owner (but may recover attorneys' fees from the bond or statutory retainage fund itself to the extent allowable under law).

8.04 CLAIMS PROCESS

A. Notice and Claims: Any Notice and any Claim of Contractor, whether under the Contract or otherwise, must be made pursuant to and in strict accordance with the applicable provisions of the Contract Documents. No act, omission, or knowledge, actual or constructive, of Owner or anyone for whose acts Owner is responsible shall in any way be deemed to be a waiver of the requirement for timely written Notice and a timely written Claim unless Owner and Contractor sign an explicit, unequivocal written waiver. The fact that Owner and Contractor may consider, discuss, or negotiate a Claim that has or may have been procedurally or substantively defective or untimely under the Contract shall not constitute a waiver of the provisions of the Contract Documents unless Owner and Contractor sign an explicit, unequivocal written waiver. Contractor acknowledges and agrees that Contractor's failure to timely submit required Notices and/or timely submit Claims has a substantial impact upon and prejudices Owner, including but not limited to its inability to fully investigate or verify the Claim, mitigate damages, choose alternative options, adjust the budget, delete or modify the impacted Work, and/or monitor time, cost and quantities.

B. Claim must cover all costs and be documented: A Claim shall be deemed to cover all changes in cost and time (including direct, indirect, impact, and consequential) to which Contractor (and Subcontractors) may be entitled and may not contain reservations of rights without Owner's written approval; any such unapproved reservations of rights shall be without effect. Any requests by Contractor for an adjustment in both the Contract Sum and Contract Time that arise out of the same event(s) shall be submitted together. A Claim must be fully substantiated and documented. At a minimum, a Claim shall contain the following information:

1. Factual statement of Claim: A detailed factual statement of the Claim for additional compensation and/or time, if any, providing all necessary dates, locations, and items of Work affected by the Claim, that confirms not only that Contractor suffered the damages claimed, but that the damages claimed were actually a result of the act, event, or condition complained of;

2. Dates: The date on which event(s) arose which gave rise to the Claim;

3. Owner and A/E employee's knowledgeable about Claim: The name of each employee of Owner and/or A/E believed to be knowledgeable about the Claim;

4. Support from Contract Documents: The specific provisions of the Contract Documents that support the Claim;

5. Identification of other supporting information: The identification of any documents and the substance of any oral communications that support the Claim;

6. Copies of supporting documentation: Data and copies of any identified documents, other than the Contract Documents, that support the Claim, including without limitation a complete explanation as to why the relief sought is not within the scope of the Contract Documents;

7. Details on Claim for Contract Time: If an adjustment in the Contract Time is sought, the specific days and dates for which it is sought; the specific reasons Contractor believes an extension in the Contract Time should be granted, and Contractor's analysis of its Progress Schedule to demonstrate the reason for the extension in Contract Time showing cause and analysis of the resultant delay to the critical path and other information required by the Contract Documents and Section 01 32 13, Project Schedule;

8. Details on Claim for adjustment of Contract Sum: If an adjustment in the Contract Sum is sought, the exact amount sought and a breakdown of that amount into the categories and with the detail required by Section 7.02; and

9. Statement certifying Claim: A statement certifying, under penalty of perjury, that the Claim is made in good faith, that the supporting cost and pricing data are true and accurate to the best of Contractor's knowledge and belief, that the Claim is fully supported by the accompanying data, and that the amount requested accurately reflects the adjustment in the Contract Sum or Contract Time for which Contractor believes Owner is responsible.

C. False Claims: Contractor shall not make any negligent or fraudulent misrepresentations, concealments, errors, omissions, or inducements to Owner in the formation or performance of this Contract. If Contractor or a Subcontractor submits false or frivolous substantiation or a Claim to Owner, which for purposes of this Section 8.01C is defined as substantiation or a Claim based in whole or in part upon a materially incorrect fact, statement, representation, assertion, or record, Owner shall be entitled to collect from Contractor by offset or otherwise (without prejudice to any right or remedy of Owner) any and all costs and expenses, including investigation and consultant costs, incurred by Owner in investigating, responding to, and defending against such false or frivolous substantiation or Claim.

D. Notification of surety: Owner may, but is not obligated to, notify Contractor's surety, if any, of the nature and amount of any claim it may assert against Contractor. If the claim relates to a possibility of Contractor's default, Owner may, but is not obligated to, notify the surety and request the surety's assistance in resolving the controversy.

E. Liens: If a Claim relates to or is the subject of a lien, the party asserting such Claim may proceed in accordance with applicable law to comply with the lien notice and filing deadlines.

F. All Claims must be submitted for final resolution within the time period specified by applicable law: Owner and Contractor shall commence all Claims and causes of action, whether in contract, tort, breach of warranty or otherwise, against the other arising out of or related to the Contract in accordance with the requirements of this Part 8 and within the time period specified by applicable law.

G. Waiver of rights: Any Claim of Contractor against Owner shall be conclusively deemed to have been waived by Contractor unless made in accordance with the requirements of Part 8.

H. Owner may investigate: To assist in the review of a Claim, Owner may at any time visit the Project site, communicate directly with Subcontractors, or request additional information (including requesting an audit as authorized below) in order to fully evaluate the issues raised by the Claim.

I. Owner may audit Claims: All Claims filed against Owner shall be subject to audit at any time following the filing of the Claim. Failure of Contractor or Subcontractors of any tier to permit Owner access to the books and records of Contractor or Subcontractors of any tier, or to maintain and retain sufficient records to allow Owner to verify all or a portion of the Claim, shall constitute a waiver of the Claim and shall bar any recovery.

J. Contractor to make documents promptly available: In support of Owner's audit of any Claim, Contractor and any Subcontractor shall, upon request, promptly make available to Owner within seven Days of Owner's request, at the office of Contractor or any requested Subcontractor during normal business hours, at least the following documents and other documents requested by Owner; failure to fully comply with this requirement shall constitute a material breach of contract and waiver of any Claim:

1. Daily time sheets and supervisor's daily reports;
2. Collective bargaining agreements;
3. Insurance, welfare, and benefits records;
4. Payroll registers;
5. Earnings records;
6. Payroll tax forms;
7. Material invoices, requisitions, and delivery confirmations;
8. Material cost distribution worksheet;
9. Equipment records (list of company equipment, rates, etc.);
10. Vendors', rental agencies', Subcontractors', and agents' invoices;
11. Contracts between Contractor and each of its Subcontractors, and all lower-tier Subcontractor contracts and supplier contracts;
12. Subcontractors' and agents' payment certificates;

13. Cancelled checks (payroll and vendors);

14. Job cost reports, including job cost summary and job cost detail reports, related labor and equipment reports, and monthly totals;

15. Job payroll ledger;

16. Planned resource loading schedules and summaries;

17. General ledger;

18. Cash disbursements journal;

19. Financial statements for all years during performance of the Work. In addition, Owner may require, if it deems it appropriate, additional financial statements for 3 years preceding execution of the Work;

20. Depreciation records on all company equipment whether these records are maintained by the company involved, its accountant, or others;

21. If a source other than depreciation records is used to develop costs for Contractor's internal purposes in establishing the actual cost of owning and operating equipment, all such other source documents;

22. All non-privileged documents which relate to each and every Claim together with all documents which support the amount of any adjustment in the Contract Sum or Contract Time sought by each Claim;

23. Work sheets or software used to prepare and establish the cost components for items of the Claim, including but not limited to labor, benefits and insurance, materials, equipment, Subcontractors, all documents that establish the time periods, individuals involved, the hours for the individuals, and the rates for the individuals;

24. Work sheets, software, and all other documents used by Contractor to prepare its bid;

25. The above items for its Subcontractors; and

26. Any other information in any form or media not expressly protected from discovery by applicable law.

K. Contractor to cooperate and provide facilities for audit: The audit may be performed by employees or representatives of Owner. Contractor and its Subcontractors shall provide adequate facilities acceptable to Owner for the audit during normal business hours. Contractor and all Subcontractors shall make a good faith effort to cooperate with Owner's auditors.

L. Reciprocal RCW 42.56 rights: Contractor agrees, on behalf of itself and Subcontractors, that any invocation of RCW 42.56 at any time by Contractor or a Subcontractor, or their respective representatives, shall initiate an equivalent right to disclosures from Contractor and Subcontractors for the benefit of Owner. Failure to fully comply with these requirements shall constitute a material breach of the Contract and shall constitute a waiver of all Claims by Contractor and any Subcontractor that does not fully comply.

PART 9 - TERMINATION OF THE WORK

9.01 TERMINATION BY OWNER FOR CAUSE

A. 7 Day Notice to Terminate for Cause: Owner may, upon 7 Days written notice to Contractor and to its surety, terminate (without prejudice to any right or remedy of Owner) the Work, or any part of it, for cause upon the occurrence of any one or more of the following events:

1. Contractor fails to prosecute Work: Contractor fails to prosecute the Work or any portion thereof with sufficient diligence to ensure Substantial Completion of the Work within the Contract Time;

2. Contractor bankrupt: Contractor is adjudged bankrupt, makes a general assignment for the benefit of its creditors, or a receiver is appointed on account of its insolvency;

3. Contractor fails to correct Work: Contractor fails in a material way to replace or correct Work not in conformance with the Contract Documents;

4. Contractor fails to supply workers or materials: Contractor repeatedly fails to supply skilled workers or proper materials or equipment;

5. Contractor failure to pay Subcontractors or labor: Contractor repeatedly fails to make prompt payment due to Subcontractors or for labor;

6. Contractor violates laws: Contractor materially disregards or fails to comply with laws, ordinances, rules, regulations, or orders of any public authority having jurisdiction; or

7. Contractor in material breach of Contract: Contractor is otherwise in material breach of any provision of the Contract Documents.

B. Owner's actions upon termination: Upon termination, Owner may at its option:

1. Take possession of Project site: Take possession of the Project site and take possession of or use all materials, equipment, tools, and construction equipment and machinery thereon owned by Contractor to maintain the orderly progress of, and to finish, the Work;

2. Accept assignment of Subcontracts: Accept assignment of subcontracts pursuant to Section 5.20; and

3. Finish the Work: Finish the Work by whatever other reasonable method it deems expedient.

C. Surety's role: Owner's rights and duties upon termination are subject to the prior rights and duties of the surety, if any, obligated under any bond provided in accordance with the Contract Documents.

D. Contractor's required actions: When Owner terminates the Work in accordance with this section, Contractor shall take the actions set forth in paragraph 9.02B, and shall not be entitled to receive further payment until the Work is accepted.

E. Contractor to pay for unfinished Work: Contractor shall not be entitled to receive further payment until the Work is finished. If the unpaid balance of the Contract Sum exceeds the cost of finishing the Work, including compensation for A/E's services and expenses made necessary thereby and any other extra costs or damages incurred by Owner in completing the Work, or as a result of

Contractor's actions, such excess shall be paid to Contractor. If such costs exceed the unpaid balance, Contractor shall pay the difference to Owner. These obligations for payment shall survive termination.

F. Contractor and Surety still responsible for Work performed: Termination of the Work in accordance with this section shall not relieve Contractor or its surety of any responsibilities for Work performed.

G. Conversion of "Termination for Cause" to "Termination for Convenience": If Owner terminates Contractor for cause and it is later determined that none of the circumstances set forth in paragraph 9.01A exist, then such termination shall be deemed a termination for convenience pursuant to Section 9.02.

9.02 TERMINATION BY OWNER FOR CONVENIENCE

A. Owner Notice of Termination for Convenience: Owner may, upon written notice, terminate (without prejudice to any right or remedy of Owner) the Work, or any part of it, for the convenience of Owner.

B. Contractor response to termination Notice: Unless Owner directs otherwise, after receipt of a written notice of termination for either cause or convenience, Contractor shall promptly:

1. Cease Work: Stop performing Work on the date and as specified in the notice of termination;

2. No further orders or Subcontracts: Place no further orders or subcontracts for materials, equipment, services or facilities, except as may be necessary for completion of such portion of the Work as is not terminated;

3. Cancel orders and Subcontracts: Cancel all orders and subcontracts, upon terms acceptable to Owner, to the extent that they relate to the performance of Work terminated;

4. Assign orders and Subcontracts to Owner: Assign to Owner all of the right, title, and interest of Contractor in all orders and subcontracts;

5. Take action to protect the Work: Take such action as may be necessary or as directed by Owner to preserve and protect the Work, Project site, and any other property related to this Project in the possession of Contractor in which Owner has an interest; and

6. Continue performance not terminated: Continue performance only to the extent not terminated.

C. Terms of adjustment in Contract Sum if Contract terminated: If Owner terminates the Work or any portion thereof for convenience, Contractor shall be entitled to make a request for an equitable adjustment for its reasonable direct costs incurred prior to the effective date of the termination, plus reasonable allowance for overhead and profit on Work performed prior to termination, plus the reasonable administrative costs of the termination, but shall not be entitled to any other costs or damages, whatsoever, provided however, the total sum payable upon termination shall not exceed the Contract Sum reduced by prior payments. Contractor shall be required to make its request in accordance with the provisions of Part 7.

D. Owner to determine whether to adjust Contract Time: If Owner terminates the Work or any portion thereof for convenience, the Contract Time shall be adjusted as determined by Owner.

9.03 TERMINATION BY CONTRACTOR FOR CAUSE

A. Contractor termination: Except as provided by RCW 60.28.080, Contractor may terminate the Contract for any of the following reasons:

1. Issuance of an order of a court or other public authority having jurisdiction that requires all Work to be stopped permanently;

2. An act of government, such as a declaration of national emergency, that requires all Work to be stopped permanently;

3. Because Owner has improperly not made payment of undisputed amounts within the time stated in the Contract Documents; or

4. The Work is stopped for a period of 60 consecutive Days through no act or fault of Contractor, a Subcontractor, or their agents or employees or any other persons or entities performing portions of the Work under direct or indirect contract with Contractor,

B. Contractor termination procedure: If one of these reasons exists, Contractor may, upon seven Days' written Notice to Owner (during which period Owner has the opportunity to cure), terminate the Contract and recover from Owner payment for Work executed in accordance with the Contract Documents, including reasonable overhead and profit on Work executed and costs incurred by reason of such termination. The total recovery of Contractor shall not exceed the unpaid balance of the Contract Sum.

PART 10 - MISCELLANEOUS PROVISIONS

10.01 GOVERNING LAW

Applicable law and venue: The Contract Documents and the rights of the parties herein shall be governed by the internal laws of the state of Washington, without regard to its choice-of-law provisions. Venue shall be in the county in which the Project is located, unless otherwise specified.

10.02 SUCCESSORS AND ASSIGNS

Bound to successors; Assignment of Contract: Owner and Contractor respectively bind themselves, their partners, successors, assigns, and legal representatives to the other party hereto and to the partners, successors, assigns, and legal representatives of such other party in respect to covenants, agreements, and obligations contained in the Contract Documents. Neither party shall assign the Contract without written consent of the other, except that Contractor may assign the Work for security purposes to a bank or lending institution authorized to do business in the state of Washington. If either party attempts to make an assignment without such consent, that party shall nevertheless remain legally responsible for all obligations set forth in the Contract Documents. If a majority of the ownership or the control of Contractor is acquired by a third party, and such acquisition reasonably imperils performance or creates a conflict of interest that Owner, in its sole discretion, cannot reasonably reconcile, then Owner may terminate this Contract at any time for cause under Section 9.01.

10.03 MEANING OF WORDS

Meaning of words used in Contract Documents: Unless otherwise stated in the Contract Documents, words that have well-known technical or construction industry meanings are used in the Contract Documents in accordance with such recognized meanings. Reference to standard Specifications, manuals, or codes of any technical society, organization, or association, or to the code of any governmental authority, whether such reference is specific or by implication, shall be to the latest

standard specification, manual, or code in effect on the date for submission of bids, except as may be otherwise specifically stated. Wherever in the Drawings and Specifications an article, device, or piece of equipment is referred to in the singular manner, such reference shall apply to as many such items as are shown on the Drawings, or required to complete the installation.

10.04 RIGHTS AND REMEDIES

A. No waiver of rights: Waiver of any provisions of the Contract Documents must be in writing and authorized by Owner. No other waiver is valid on behalf of Owner. No action, delay in acting, or failure to act by Owner or A/E shall constitute a waiver of a right or duty afforded under the Contract Documents, nor shall action, delay in acting, or failure to act constitute approval or an acquiescence in a breach therein, or otherwise prejudice the right of Owner to enforce a right or remedy at any subsequent time, except as may be specifically agreed in writing.

B. Rights under Contract do not limit other rights: Duties and obligations imposed by the Contract Documents and rights and remedies available thereunder shall be in addition to and not a limitation of duties, obligations, rights and remedies otherwise imposed or available by law.

C. If portion of Contract is void, remainder is enforceable: If any portion of this Contract is held to be void or unenforceable, the remainder of the Contract shall be enforceable without such portion.

10.05 CONTRACTOR REGISTRATION AND COMPLIANCE

A. Contractor must be registered and licensed: Pursuant to RCW 39.06, Contractor shall be registered and licensed as required by the laws of the State of Washington, including but not limited to RCW 18.27. Contractor shall also have a current state unified business identifier number; have industrial insurance coverage for Contractor's employees working in Washington as required in Title 51 RCW; have an employment security department number as required in Title 50 RCW; have a state excise tax registration number as required in Title 82 RCW; and not be disqualified from bidding on any public works contract under RCW 39.06.010 (unregistered or unlicensed contractors) or RCW 39.12.065(3) (prevailing wage violations).

B. Employer contributions: Pursuant to RCW 50.24, "Contributions by Employers," in general and RCW 50.24.130 in particular, Contractor shall pay contributions for wages for personal services performed under this Contract or arrange for a bond acceptable to the Commissioner.

C. Apprenticeship requirements: If the Contract Sum for the Project exceeds one million dollars, Contractor shall comply with all applicable apprenticeship requirements.

10.06 TIME COMPUTATIONS

Computing time: When computing any period of time, the day of the event from which the period of time begins shall not be counted. The last day is counted unless it falls on a weekend or legal holiday, in which event the period runs until the end of the next day that is not a weekend or holiday. When the period of time allowed is less than 7 days, intermediate Saturdays, Sundays, and legal holidays are excluded from the computation.

10.07 RECORDS RETENTION

Six year records retention period: The wage, payroll, and cost records of Contractor, and its Subcontractors, and all records subject to audit in accordance with Section 8.03, shall be retained for a period of not less than 6 years after the date of Final Acceptance.

10.08 THIRD-PARTY AGREEMENTS

No third party relationships created: The Contract Documents shall not be construed to create a contractual relationship of any kind between: A/E and Contractor; Owner and any Subcontractor; or any persons other than Owner and Contractor.

10.09 ANTITRUST ASSIGNMENT

Contractor assigns overcharge amounts to Owner: Owner and Contractor recognize that in actual economic practice, overcharges resulting from antitrust violations are in fact usually borne by the purchaser. Therefore, Contractor hereby assigns to Owner any and all claims for such overcharges as to goods, materials, and equipment purchased in connection with the Work performed in accordance with the Contract Documents, except as to overcharges which result from antitrust violations commencing after the Contract Sum is established and which are not passed on to Owner under a Change Order. Contractor shall put a similar clause in its Subcontracts, and require a similar clause in its sub-Subcontracts, such that all claims for such overcharges on the Work are passed to Owner by Contractor.

10.10 HEADINGS AND CAPTIONS

Headings for convenience only: All headings and captions used in these General Conditions are only for convenience of reference, and shall not be used in any way in connection with the meaning, effect, interpretation, construction, or enforcement of the General Conditions, and do not define the limit or describe the scope or intent of any provision of these General Conditions.

10.11 INDEPENDENT CONTRACTOR

Contractor is independent contractor: Contractor shall be and operate as an independent contractor in the performance of the Work and shall have complete control over and responsibility for all personnel performing the Work. Contractor is not authorized to enter into any agreements or undertakings for or on behalf of Owner or to act as or be an agent or employee of Owner.

10.12 OWNER'S ROLE

Owner's role is limited. Owner will not have control over, charge of, or responsibility for, the construction means, methods, techniques, sequences or procedures, or for the safety precautions and programs in connection with the Work, since these are solely Contractor's responsibility under the Contract Documents. The presence of Owner at the Project site shall not in any manner be construed as assurance that the Work is being completed in compliance with the Contract Documents, nor as evidence that any requirement of the Contract Documents of any kind, including Notice, has been met or waived. Owner will not be responsible for Contractor's failure to perform the Work in accordance with the requirements of the Contract Documents. Owner will not have control over or charge of and will not be responsible for acts or omissions of Contractor, Subcontractors, or their agents or employees, or any other persons or entities performing portions of the Work.

END OF SECTION 00 72 00

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CAPITAL PLANNING & DEVELOPMENT
WSU PULLMAN

GRAHAM

RECEIVED
JAN 20 2009
Capital Planning & Development - Spokane

January 12, 2009

Mr. Bruce Thompson
Washington State University
665 N. Riverpoint Blvd.
Spokane, WA 99202

Reference: Health Sciences Building
Washington State University
310 N. Riverpoint Blvd
Spokane, WA 99202

Dear Bruce,

Graham Construction & Management, Inc. hereby certifies that no asbestos or asbestos containing materials were used during the construction of the Health Sciences Building. All materials used were reviewed by the Project Team for conformance to the Project Specifications.

Sincerely,

GRAHAM CONSTRUCTION & MANAGEMENT, INC

Robert Askins
Vice President

Environmental
Health & Safety
JUL 08 2009

RECEIVED

331 NORTH FANCHER ROAD, SPOKANE WA 99212 | OFFICE 509.534.1030 | WA REG# GRAHACM954CG | WEB WWW.GRAHAMUS.COM
P.O. BOX 11954, SPOKANE WA 99211 | FAX 509.534.9735 | EQUAL OPPORTUNITY EMPLOYER

Graham Construction & Management, Inc.
331 N. Fancher Road
Spokane, WA 99212
Phone: (509) 534-1030
Fax: (509) 534-9735

July 10, 2009

Washington State University
665 N. Riverpoint Blvd
Spokane, WA 99202

Attention: **Bruce Thompson**

Dear Bruce,

Reference: **Research Laboratory Renovation / Health Sciences Building Rooms 310G & 310N**
Interdisciplinary Health Sciences Biochemistry Laboratory Renovation / Health Sciences Building Rooms 315A, 315AA, 332, 334, & 336
Washington State University
310 N. Riverpoint Blvd
Spokane, WA 99202

Graham Construction & Management, Inc. hereby certifies that no asbestos or asbestos containing materials were used during the construction of the above mentioned projects. All materials used were reviewed by the Project Team for conformance to the Project Specifications

Yours truly,

GRAHAM CONTRACTION & MANAGEMENT, INC.

David Loomis, Project Manager

BOUTEN
CONSTRUCTION COMPANY

Building Excellence
Since 1944

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CAPITAL PLANNING & DEVELOPMEN
WSU PULLMAN

August 18, 2008

Mr. Larry Harris, Project Officer
WASHINGTON STATE UNIVERSITY
Dept. of Capital Planning & Development
P.O. Box 643611
Pullman, WA 99164

RE: BSEL
Washington State University
Richland, Washington
Project No: H-200

Dear Larry:

Bouten Construction hereby certifies that no asbestos or asbestos containing materials were used during the construction of the Bioproducts, Science, and Engineering Laboratory. All materials used were reviewed by the Project Team for conformance to the Project Specifications.

Sincerely,

BOUTEN CONSTRUCTION COMPANY

Scott McGlocklin, Project Manager

SGM.clm
S:\H-200 (WSU-BSEL)\Letters\L49 Asbestos Certification (8-18-08).doc

cc:

11/05/2008 10:44 FAX 15093356875 WSU CAPITAL PLNG & DEV 002

WASHINGTON STATE UNIVERSITY

Environmental Health and Safety

Good Faith Survey Update
Washington Building (#0015)
Washington State University
Pullman, Washington

June 25, 2021



Prepared by:

Stephan Gilley
WSU Environmental Health and Safety
AHERA Building Inspector # BIR 181389 (exp. April 21, 2022)

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1 INTRODUCTION

Washington State University (WSU) Environmental Health and Safety (EH&S) conducted a "Good Faith" asbestos and limited lead in painted coatings survey of the Washington building in May 2021. The Washington building is located at 1125 Southeast Washington Street at the west end of WSU's campus in Pullman, Washington. The facility was originally constructed in 1928 and houses WSU's University Health and Counseling Services with faculty and executive offices. This survey was conducted to meet Washington Administrative Code (WAC) 296-62-07721 Good Faith survey requirements for construction, renovation, demolition, and maintenance projects at the Washington Building with the following limitations.

1.1 Limitations of the Assessment

The conclusions herein are professional opinions based solely upon visual site observations and interpretations of analytical data as described in this report. The survey excluded areas of the building which were inaccessible or would have caused damage to the building if sampled. Locations where inspectors would have been exposed to hazards were not evaluated (e.g., operating HVAC or building mechanical systems). Typical construction techniques can render building portions inaccessible. As a result, additional asbestos-containing materials (ACM) may be present in inaccessible areas (e.g., wall cavities, within energized systems). Suspect regulated materials within inaccessible areas should be presumed to contain asbestos until characterized. The following specific area was excluded from this survey: Locked rooms G1 Suite, G12, G50AT, G70T; 117, 171T, 199; 262, 270T; 370T; 470.

The opinions presented herein apply to the site conditions existing at the time of the investigation and interpretation of current regulations pertaining to asbestos and lead. Opinions and recommendations provided herein may not apply to future site conditions. Regulatory requirements in effect at the time of the work should be verified prior to any work impacting regulated materials. This report represents the findings of this survey only, and is not intended to establish scope or contractual terms supporting regulated material disturbance, abatement or disposal.

2 METHODOLOGY

This good faith survey was conducted by Stephan Gilley with WSU EH&S, AHERA Building Inspector #BIR181389 (exp. April 21, 2022) in May 2021. The asbestos survey was performed referencing the "Good Faith" survey requirements outlined in WAC 296-62-07721.

To identify suspect ACM, EH&S walked through accessible locations in the building noting building materials and construction. Not all concealed areas or sub-surface suspect materials may have been surveyed (see Limiting Conditions in Section 1.1). Approximate suspect material quantities were estimated based upon field observations, measurements, and scaled building drawings provided by WSU Facilities Services. Quantities given are intended for order of magnitude information only and must be field verified to support project bidding or estimates.

2.1 Asbestos Bulk Sampling

Suspect ACM was grouped into homogeneous sampling areas (HSA) and categorized referencing 40 CFR 763, as thermal systems insulation (TSI), surfacing material, or miscellaneous material. The sampling plan included, at a minimum, the collection and analysis of samples as follows:

Thermal System Insulation

- In a distributive manner, a minimum of three samples of each HSA that was not presumed to contain asbestos.
- At least one bulk sample from each homogeneous area of patched TSI if the patch was less than 6 square feet.
- In a manner sufficient to determine whether the material is ACM, samples were collected from plaster/mudded pipe fitting insulation.

Surfacing Material

- In a distributive manner, a minimum of three samples collected from each homogeneous area that was 1,000 square feet or less.
- A minimum of five samples collected from each homogeneous area that was greater than 1,000 square feet but less than or equal to 5,000 square feet.
- A minimum of seven samples collected from each homogeneous area that was greater than 5,000 square feet.

Miscellaneous Material

- In a distributive manner as deemed sufficient by the Inspector.
- At least one sample was collected of each suspect miscellaneous material not presumed to contain asbestos.

Non-Suspect Materials

Fiberglass, wood, metal, structural concrete or other generally recognized non-ACM were not sampled.

Asbestos bulk samples and chain-of-custody forms were delivered to NVL Laboratories (NVL) in Seattle, Washington for analysis. In addition, three control samples were delivered to Environmental Hazard Services, LLC (EHS) in Richmond, Virginia. Each sample was analyzed by Polarized Light Microscopy (PLM) with dispersion staining referencing EPA Method 600/R-93/116. The detection limit for this type of analysis is approximately one percent (by visual estimate). Materials containing more than one percent asbestos are considered ACM.

2.2 Limited Lead Paint/Coatings Sampling

This lead survey was performed to assist employers' efforts to comply with the Washington Labor and Industries (LNI) lead standard for the construction industry (WAC 296-155-176) during renovation/demolition activities. Paint evaluation was limited to large homogeneous surfaces. Paint chip samples were collected from surfaces throughout the building and analyzed by flame atomic absorption spectrophotometry (FAAS) referencing EPA Method SW846 7000B. Paint chip results are reported by milligrams per kilogram of lead by weight. Any detection of lead in paint is reported as a lead-containing paint.

3 RESULTS

The following section details WSU EHS' asbestos sampling and lead in painted coatings sampling results. Asbestos and lead sample locations are identified on Figures 1 through 9.

3.1 Visual Inspection

Washington Building is a six-story rectangular shaped structure originally constructed in 1928 with exterior concrete and brick finishes and flat roof sections. The building houses WSU's Health and Wellness Medical Clinic, Student Access Center, Violence Prevention Center, a pharmacy, WSU Eye Clinic, Counseling Psychological Services and Physical Therapy suites.

The building was constructed during three separate periods: 1928, 1950, and 1979. The initial construction included a rectangular structure, Finch Memorial Hospital. In 1950, a hospital addition was added south of the original structure and included a basement and ground floor. Stadium Way was located just south of the new addition. The 1979 construction included a Student Health Center and a four-story addition at the north end of the property adjacent Washington Avenue. An asphalt parking lot was constructed east of the north addition. The first, second, and third floors of the current structure have been renovated from approximately 2005-2015 to include a new pharmacy area, office expansions, and new department areas on the third floor.

The basement and a central piece of the ground floor have some original building finishes including brick, plaster, concrete walls, and concrete floors. A concrete wall in room G10 and an expansion joint near the center of G100 hallway show the north and south ends of the original construction. The basement finishes also include: gypsum wallboard, plaster, sheet vinyl, suspended ceiling tiles, and vinyl floor tile. The basement is occupied by a classroom, storage room, mechanical rooms, and two bathrooms.

The ground floor is generally finished with gypsum wallboard, plaster, textured plaster ceiling, concrete walls and floors, CMU, vinyl floor tile, sheet vinyl, carpet, and a concrete deck above the ceiling space. Some additional finishes including 12-inch ceiling tile and wood wall panels have remained after renovation work on the floor. The ground floor is occupied by mechanical rooms, two IT suites, Navy ROTC, WSU Eye Clinic, bathrooms, and storage rooms. Passenger elevators are located at the north and southeast ends of the floor. A loading dock at the southeast corner leads to an asphalt parking lot.

The first floor is generally finished with gypsum wallboard, various cove bases, vinyl floor tile, sheet vinyl, suspended ceiling tiles, and carpet. The first floor is occupied by medical patient rooms, offices, administrative suites, bathrooms, and a pharmacy near the northwest entrance. There are four stairwells on the floor providing access to the second, third, and penthouse floors. Passenger elevators are located at the northwest corner and near the center of the north half. The pharmacy (Suite 101), Suites 120, 122, 133, and 169 have been renovated extensively over several phases with updates to the mechanical systems, HVAC system, sinks, ceiling spaces utilities, wall systems, flooring, and ceiling tiles.

The second floor is occupied by WSU Access Center, physical therapy rooms, administrative and faculty offices, storage rooms, and bathrooms. The second floor has two passenger elevators and four stairwells. The floor is generally finished with gypsum wallboard, various cove bases, suspended ceiling tiles, vinyl floor tile, sheet vinyl, and carpet.

The third floor is generally finished with gypsum wallboard, tan tile wall sections, suspended ceiling tiles, brown cove base, and carpet. A renovation occurred after a May 2014 survey replacing wall systems, ceiling tiles and ceiling space utilities, and flooring. The third floor is occupied by WSU Psychology and Counseling Department with administrative and faculty offices.

The mechanical penthouse on the fourth floor contains the buildings HVAC and main mechanical systems. Access to the north roof section is located at the west door of 401 and the south roof section is accessed using the south door of 401. A second floor roof section is located at the southwest corner of the building. Two first floor roof sections are located on the east end of the building. A new rubber membrane roof was installed at the east roof sections adjacent the loading dock and parking lot.

3.2 Asbestos

Table 1 summarizes confirmed ACMs and assumed ACMs identified (**bold font**) during the survey. Photographs referenced in the tables are provided in Appendix A. Quantities are estimated for order of magnitude information only and not intended for bidding purposes or fee estimates for construction or renovation projects.

Table 1 – ACMs and Assumed ACMs

Material	Location(s) of ACM	Photo #	Approximate Quantity
Class I – Thermal System Insulation			
Pipe insulation (mudded/plaster elbows and mag-type insulation runs).	Domestic water and heating lines with elbows on blue painted and white pipes in basement and ground floor (3-inch to 6-inch). Vertical pipe section: 480SN stairs	1	1,500LF/ 200 EA 3 LF
Class I – Surfacing Materials			
White-gray thick plaster skim coat and gray scratch coat (ceiling)	G100 hallway	2	600 SF
Class II – Miscellaneous Materials			
12-inch yellow and white vinyl floor tile <u>and</u> associated black mastic with brown mastic and leveling compound (under carpet)	1st floor: 118D, 122D, 126, 130, 130A, 133, 133A, 134, 135, 143, 145, 151, 153, 165, 175, 177, 185, 187 2nd floor: Access center 216-241 offices and hallway; 200V, 200S, 201, 201A, 205, 207, 211, 211A, 245, 247, 247A, 249, 254, 254A, 257	3	8,000 SF
12-inch tan with brown streaks vinyl floor tile <u>and</u> associated black mastic	100C, 100SE, 100SA/SB/SC/SD, 141, 142, 146, 147, 149, 150, 155, 157, 160, 161, 163, 169A, 169B, 173, 179, 183, 189, 251, 261, 267, 280SN stairwell	4	3,500 SF
9-inch olive with white and black streak vinyl floor tile with black mastic	G100 hallway	5	1,500 SF
12-inch yellow with white and brown streaks vinyl floor tile <u>and</u> associated black mastic	118AA and 118C	6	400 SF
12-inch cream with brown and gray streaks vinyl floor tile <u>and</u> associated tan and black mastic	G100: south hallway and south elevator	7	250 SF
Tan-Beige square pattern sheet vinyl floor tile with yellow mastic and **gray backing**	138 and 180	8	250 SF
Beige-brown-tan pebble pattern sheet vinyl floor tile **with gray backing**	265 and 269	9	150 SF

Material	Location(s) of ACM	Photo #	Approximate Quantity
Brown-Gray-White pebble pattern sheet vinyl floor tile with yellow mastic and **gray backing**	118B and 118F	10	100 SF
Tan-brown-white square pattern sheet vinyl floor tile with yellow mastic and **gray backing**	137A	11	25 SF
Brown-white-gray sheet vinyl floor tile with yellow mastic**, black mastic**, and gray backing	164	12	25 SF
Tan-beige pebble pattern sheet vinyl floor tile with yellow mastic, **black mastic, and gray backing**	169C	13	25 SF
Tan-brown-white small pebble pattern sheet vinyl floor tile with **white-gray backing**, brown mastic, and concrete debris	243 and 253	14	100 SF
Tan-cream pebble pattern sheet vinyl floor tile with tan mastic (top layer) Sheet vinyl with **gray backing** (bottom layer)	G25	15	25 SF
White 12-inch dot ceiling tile and associated **brown puck mastic**	G100 north end, Central stairwells: 1st/ 2nd /3rd floors	16	500 SF
White 12-inch large etch-dot ceiling tile and associated **brown puck mastic**	G100: North and south ends	17	150 SF
Tan soft duct mastic	3rd floor HVAC heat exchanger	18	250 SF
White cement asbestos board and associated black mastic	480SN stairs and 401 south end	19	75 LF
Silver paint with **black asphaltic sealant** at base of HVAC units	Penthouse roof: North section Applied to tin flashing at HVAC roofing curb locations and possibly present under EPDM roofing overlay	20	250 LF
Dark brown mastic under wood wall paneling	G27, G29, G30, and G32	21	600 SF
Fire rated doors (assumed)	Metal entrance doors, office doors, stairwell doors, and mechanical room doors labeled with fire rating	22	125 EA

Note: **Bold** indicates material that contains asbestos within description

Table 2 – Materials That Contain <1% Asbestos

Material	Location(s) of ACM	Photo #	Approximate Quantity
Plaster	G80 stairs, G80SS, G100SS	-	900 SF

Appendix B details asbestos survey sample numbers, material descriptions, sample locations and laboratory analytical results. Specific observations concerning ACMs are discussed below.

Plaster
A plaster system with a sandy top layer and thick gray scratch coat over wire mesh contains <1% asbestos was applied to the walls of the stairs leading to the basement G80 stairs, G80SS, and G100SS. The north stairwell system at G80SN, 180SN plaster system does not contain any asbestos. A plaster ceiling with a white skim coat and thick gray scratch coat in the hallway G100 contains 17%-18% asbestos.

Thermal System Insulation/ Surfacing
Domestic water and heating lines on blue painted and white pipes in the basement and ground floors (3-inch to 6-inch diameter) contains asbestos-containing magnesia-block type pipe insulation on straight runs and elbows. The pipe insulation is visible in rooms B6, B6A, and the ground floor stairwell G100SS. An approximately 3 ft. vertical pipe section painted black remains in the stairwell at 480 SN. There was no observed suspect pipe insulation in the ceiling spaces of the first, second, and third floors.

Floor tile
12-inch vinyl floor tile under carpeted offices and hallways was observed throughout the first and second floors. The vinyl tile was observed to be yellow and white (with residual yellow carpet mastic) with yellow, clear, and black mastic with leveling compound. The vinyl tile and black mastic contains asbestos in the samples collected from the first and second floors.

Sheet Vinyl Flooring
Various patterned sheet vinyl flooring areas were found with black mastic and white-gray backing containing asbestos. A bottom layer of sheet vinyl in Room G25 contains gray backing with asbestos with a non-asbestos sheet vinyl layer on top. Sheet vinyl locations containing asbestos white-gray backing (bottom layer of sample) were found in bathrooms and storage rooms on the first and second floors.

Roofing
Previous samples collected by E3RA in their *WSU Health Care Facility Hazardous Material Sampling and Testing* dated February 3, 2005 concluded the black asphaltic sealant under the silver paint at the penthouse roof contains asbestos. Asbestos was detected at the HVAC curb locations at the north roof section. Reference the E3RA report attached in Appendix H. Roof cores at the north and south penthouse level and southwest end of the second floor did not contain asbestos materials. First floor roof sections at the east end of the building have been abated within the last 10 years and do not contain asbestos.

3.3 Lead Paints and Coatings

Appendix C details lead paint/coatings sample numbers, descriptions, sample locations, and lead paint chip results collected during the survey. A sample from a representative area of white concrete ceiling (sample collected at loading dock) contains a detectable quantity of lead. The lead based paint is found at the loading dock ceiling areas at the east end of the building.

4 CONCLUSIONS

A copy of this report must be provided to any entity bidding on work at the Washington building. A copy of this report must also be on site during any demolition, renovation and/or construction activities.

4.1 Asbestos-containing Materials

Regulated ACMs are identified in Table 1. Construction, renovation and maintenance activities involving the disturbance or removal of ACM must be conducted in accordance with WAC 296-62-077. Asbestos abatement must be performed by a Washington State licensed asbestos abatement contractor.

Materials that contain <1% asbestos

Although not regulated under the asbestos rule as an asbestos project, disturbing materials with <1% asbestos require the use of basic asbestos work practices outlined in WAC 296-62-017712(2); asbestos awareness training for workers outlined in WAC 296-62-07722(5); and use of respiratory protection in the absence of a negative exposure assessment to comply with the permissible exposure limit (PEL). A competent person must also be assigned and trained under the requirements of WAC 296-62-07728. For wallboard/joint compound systems, reference WISHA Regional Directive 23.30 – Asbestos-Containing Joint Compound in Wallboard Systems.

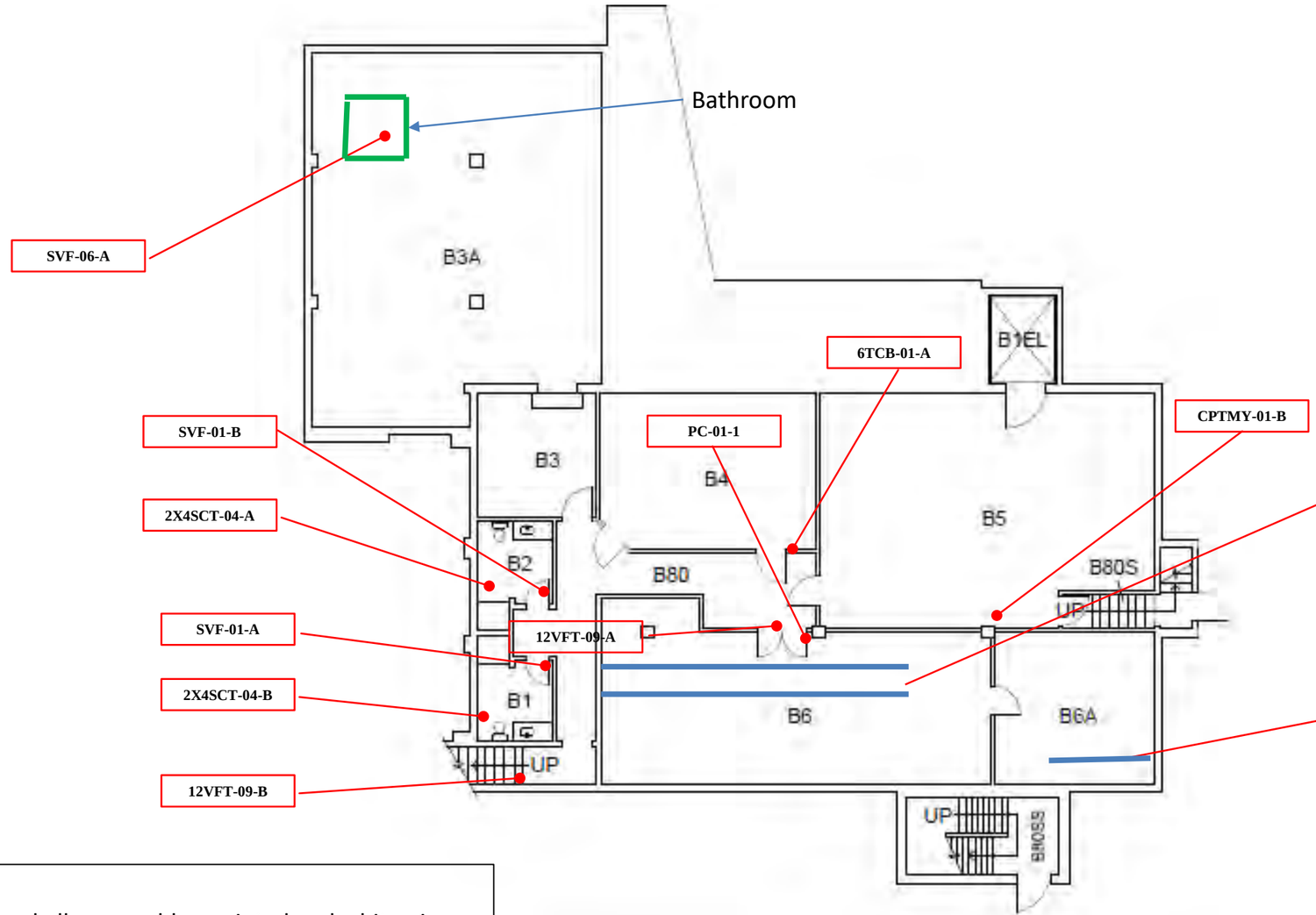
Contractors should use caution during construction even after asbestos abatement activities, as concealed ACM that has not previously been evaluated for asbestos may be encountered. Inaccessible concealed spaces (e.g., wall and ceiling spaces enclosed by wallboard, internal components of energized systems etc. that have not been surveyed for ACM, and should be presumed to contain asbestos until destructive sampling is performed in those areas.

4.2 Lead-containing Paints/Coatings

Materials that have been shown to contain detectable levels of lead are regulated due to the potential for occupational exposure to lead if these materials are disturbed. Projects that may disturb lead require employers to evaluate worker/project personnel exposure to lead and prevent exposure above the permissible exposure limit (PEL).

FIGURES

Figure 1
Basement Floor – Sample and ACM Locations





N

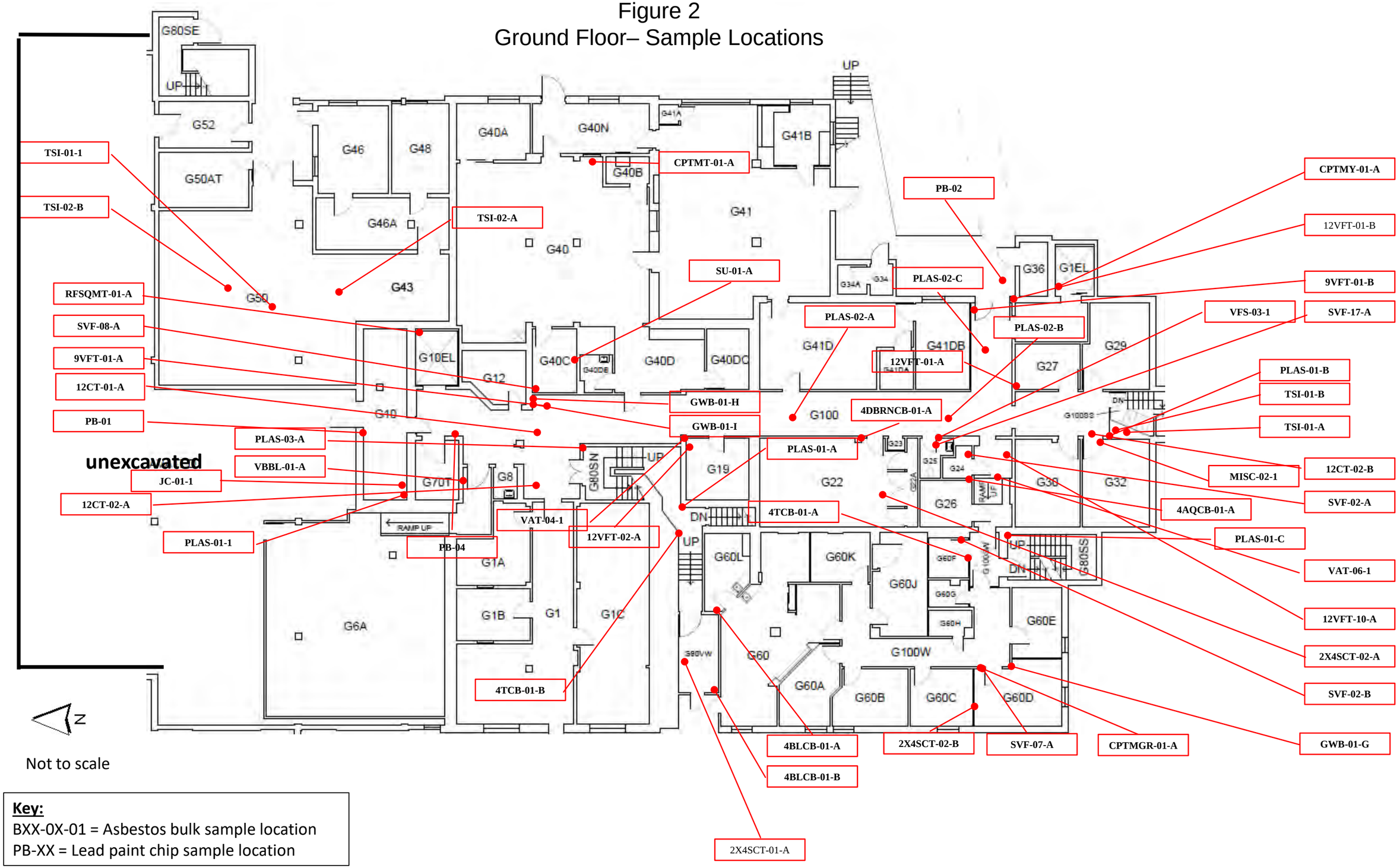
Not to scale

ACM Key
Domestic water lines and elbows on blue painted and white pipes in basement and ground floor (3-inch to 6-inch). Magnesia pipe runs and elbows observed in B6 and B6A (see photos).

Key:
BXX-0X-01 = Asbestos bulk sample location
PB-XX = Lead paint chip sample location

ACMs not illustrated:
Metal and wood fire rated doors.

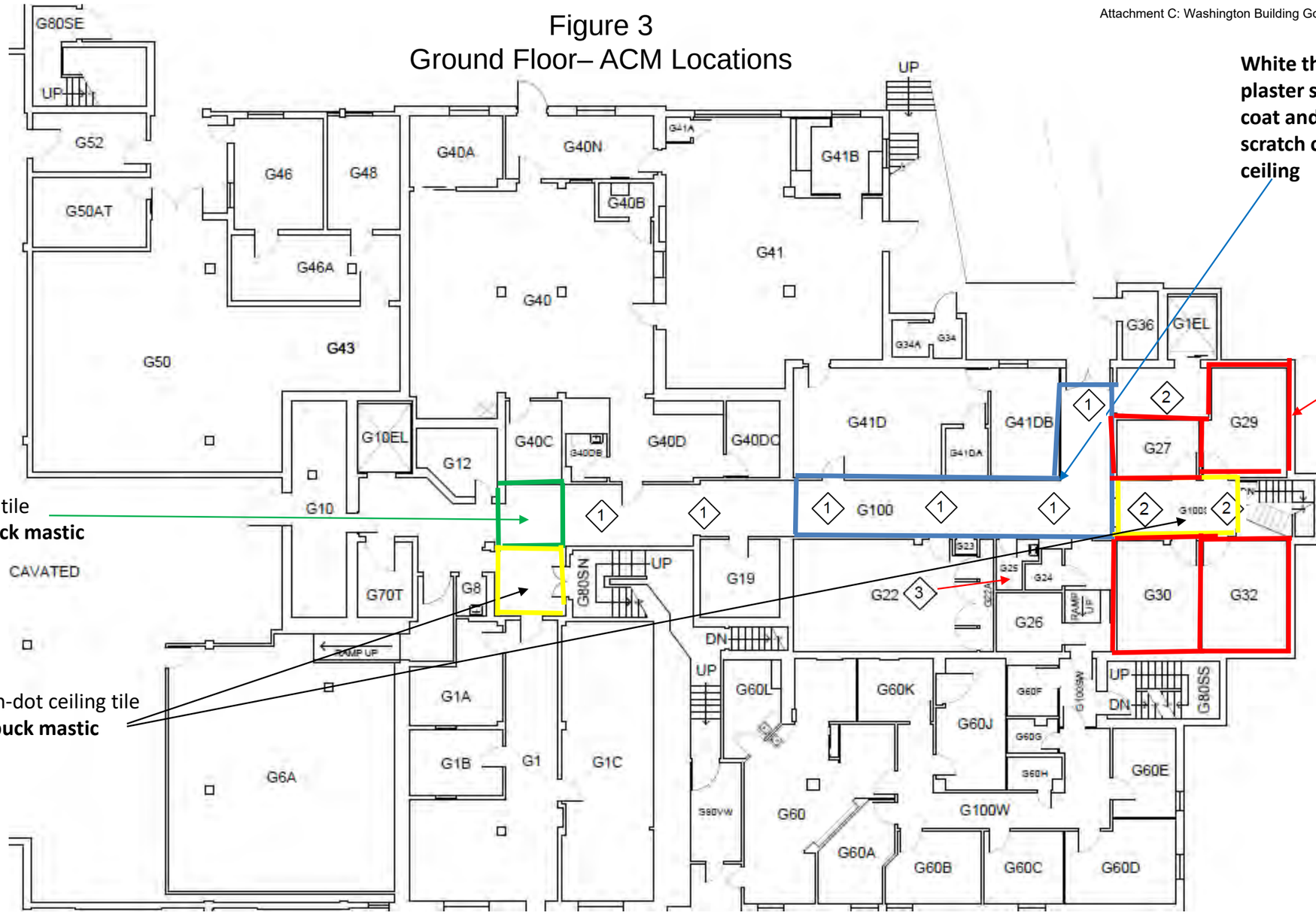
Figure 2
Ground Floor– Sample Locations



Not to scale

Key:
BXX-0X-01 = Asbestos bulk sample location
PB-XX = Lead paint chip sample location

Figure 3
Ground Floor– ACM Locations



White thick plaster skim coat and gray scratch coat on ceiling

Dark brown mastic under wood wall paneling

White 12-inch dot ceiling tile and **associated brown puck mastic**

White 12-inch large etch-dot ceiling tile and **associated brown puck mastic**

N

Not to scale

ACMs not illustrated:

1. Domestic water and heating lines and elbows in ground floor (3-inch to 6-inch magnesia type).
2. Metal and wood fire rated doors.

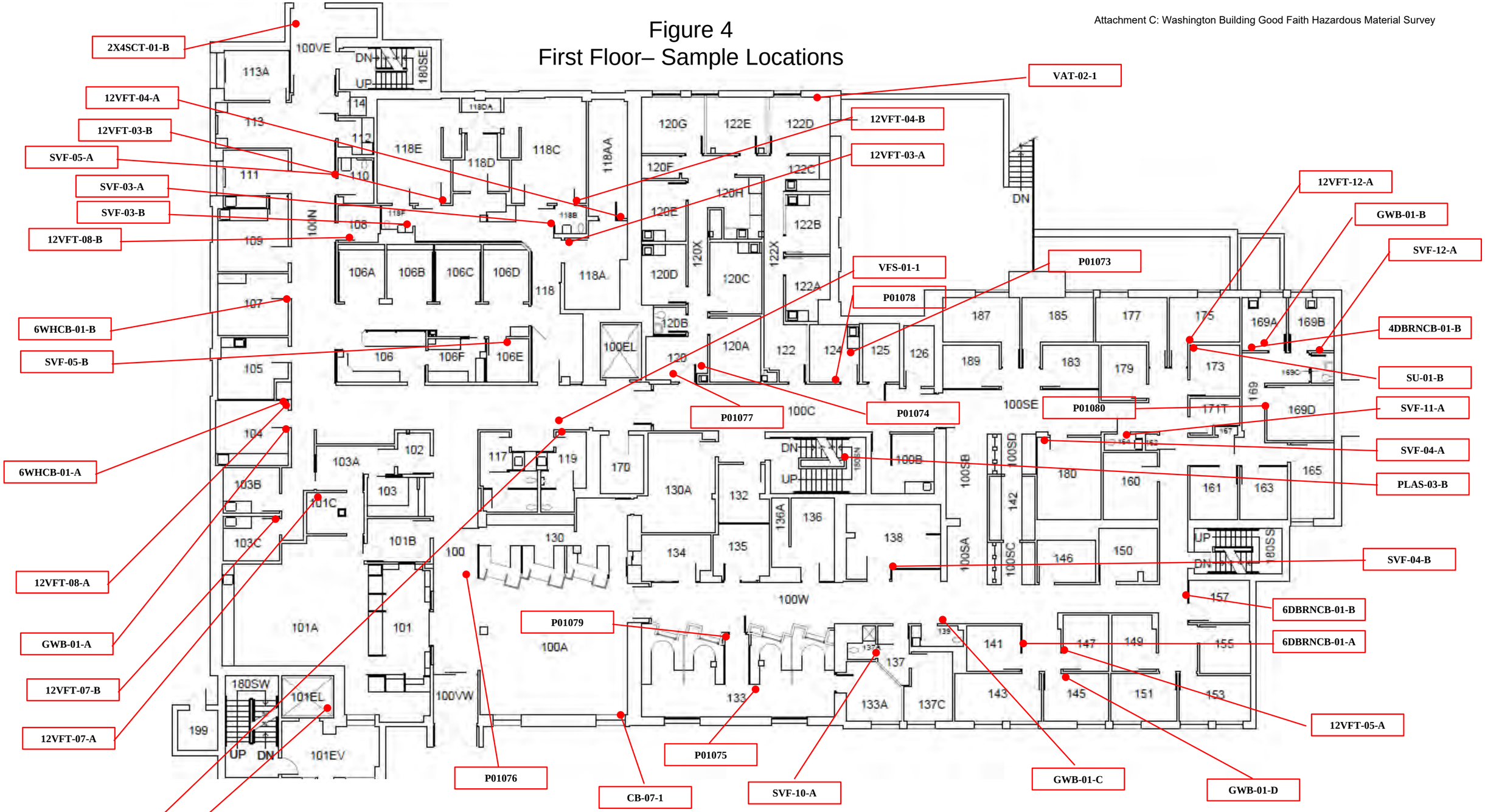
ACM Key

1 **9-inch olive with white and black streak vinyl floor tile** with black mastic

2 **12-inch cream with brown and gray streaks vinyl floor tile and associated tan and black mastic**

3 Tan-cream pebble pattern sheet vinyl floor tile with tan mastic (top layer). Sheet vinyl with **gray backing** (bottom layer).

Figure 4
First Floor– Sample Locations



Not to scale

Key:
BXX-0X-01 = Asbestos bulk sample location
PB-XX = Lead paint chip sample location

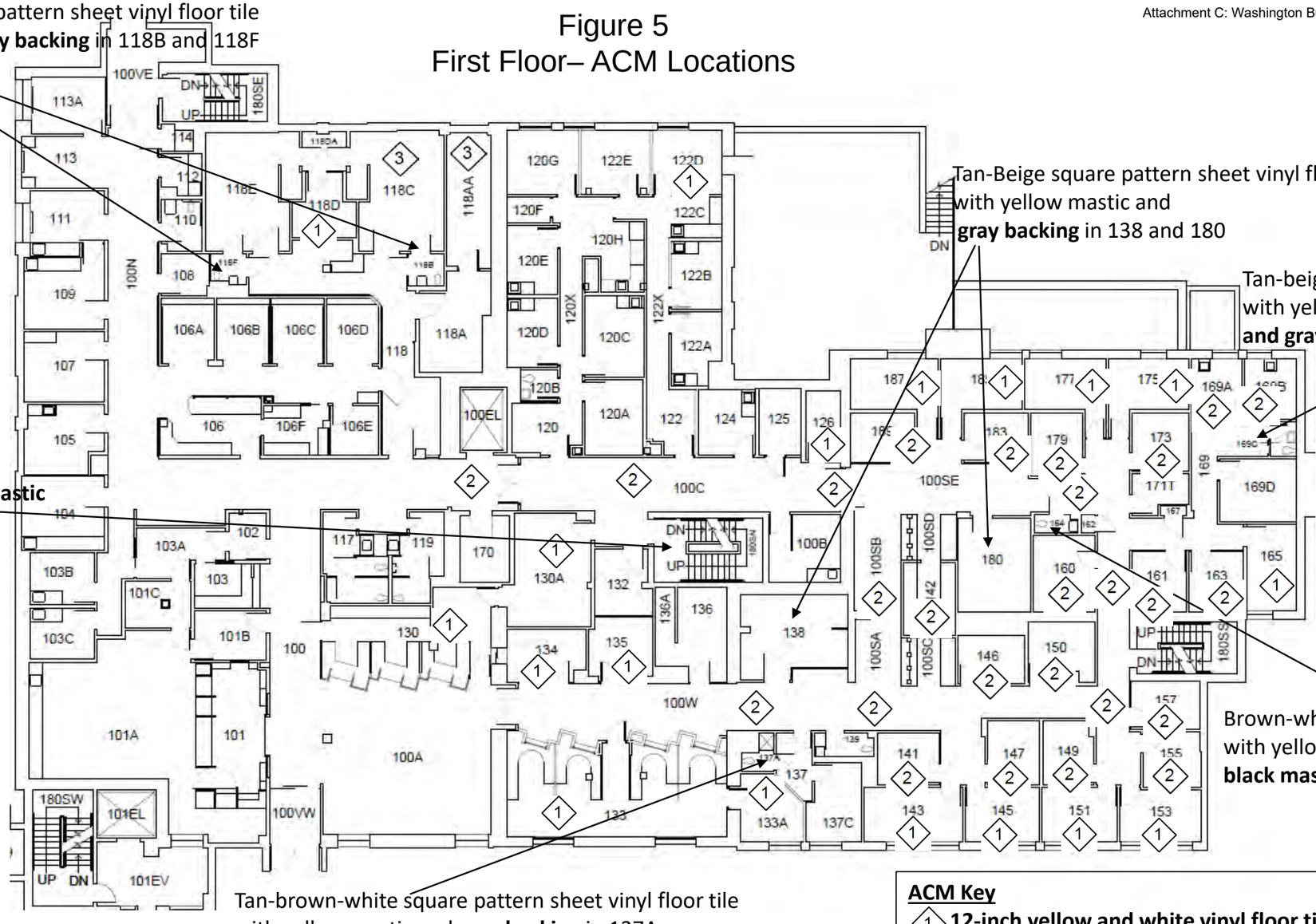
Figure 5
First Floor– ACM Locations

Brown-Gray-White pebble pattern sheet vinyl floor tile with yellow mastic and **gray backing** in 118B and 118F

Tan-Beige square pattern sheet vinyl floor tile with yellow mastic and **gray backing** in 138 and 180

Tan-beige pebble pattern sheet vinyl floor tile with yellow mastic, **black mastic, and gray backing** in 169C

White 12-inch dot ceiling tile and associated **brown puck mastic** in 180SN



Brown-white-gray sheet vinyl floor tile with yellow mastic**,** **black mastic**, and gray backing in 164

Tan-brown-white square pattern sheet vinyl floor tile with yellow mastic and **gray backing** in 137A

N

Not to scale

ACM Key

1 **12-inch yellow and white vinyl floor tile and associated black mastic** with brown mastic and leveling compound (under carpet).

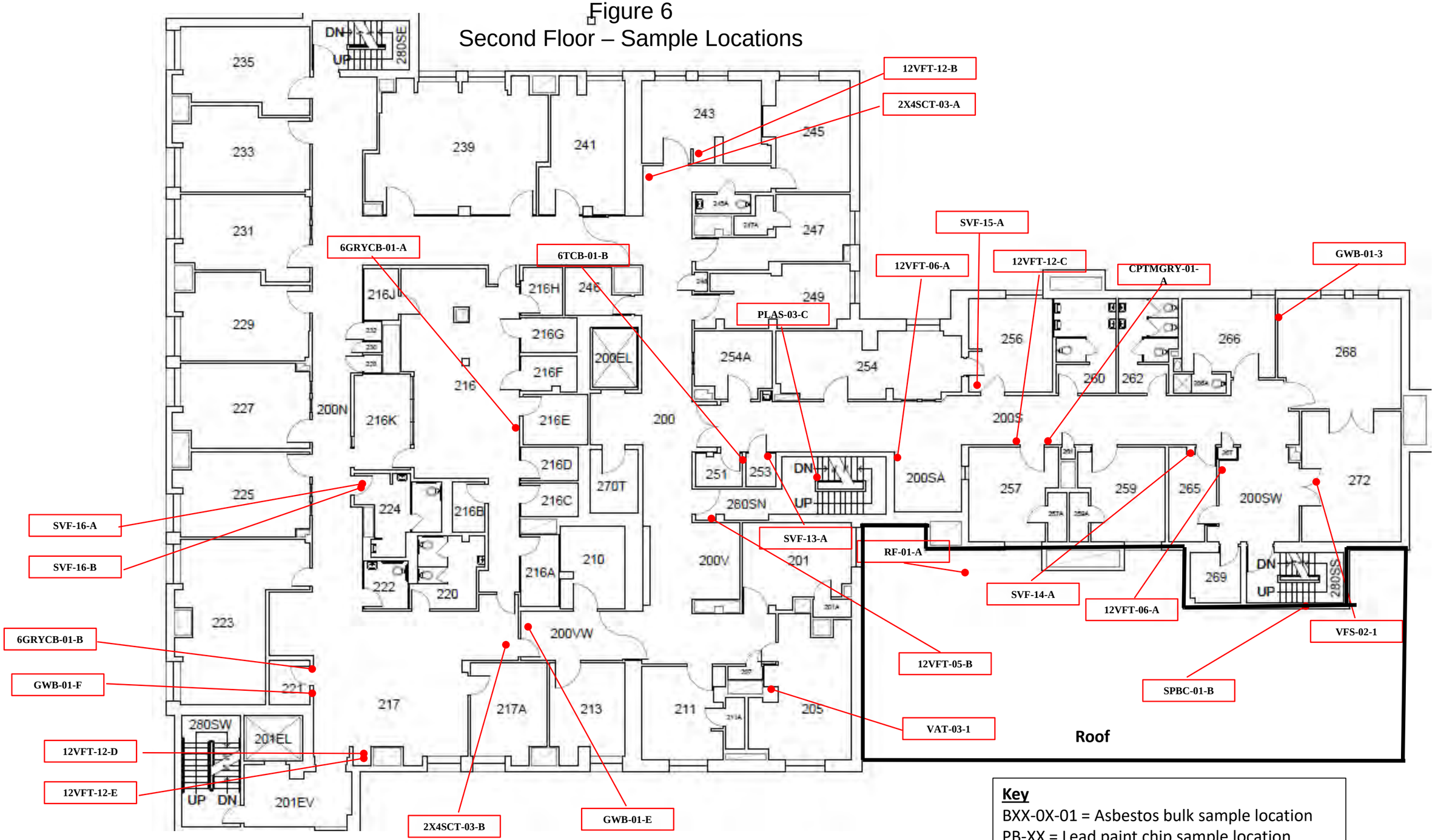
2 **12-inch tan with brown streaks vinyl floor tile and associated black mastic**.

3 **12-inch yellow with white and brown streaks vinyl floor tile and associated black mastic.**

ACMs not illustrated:

Metal and wood fire rated doors.

Figure 6
Second Floor – Sample Locations

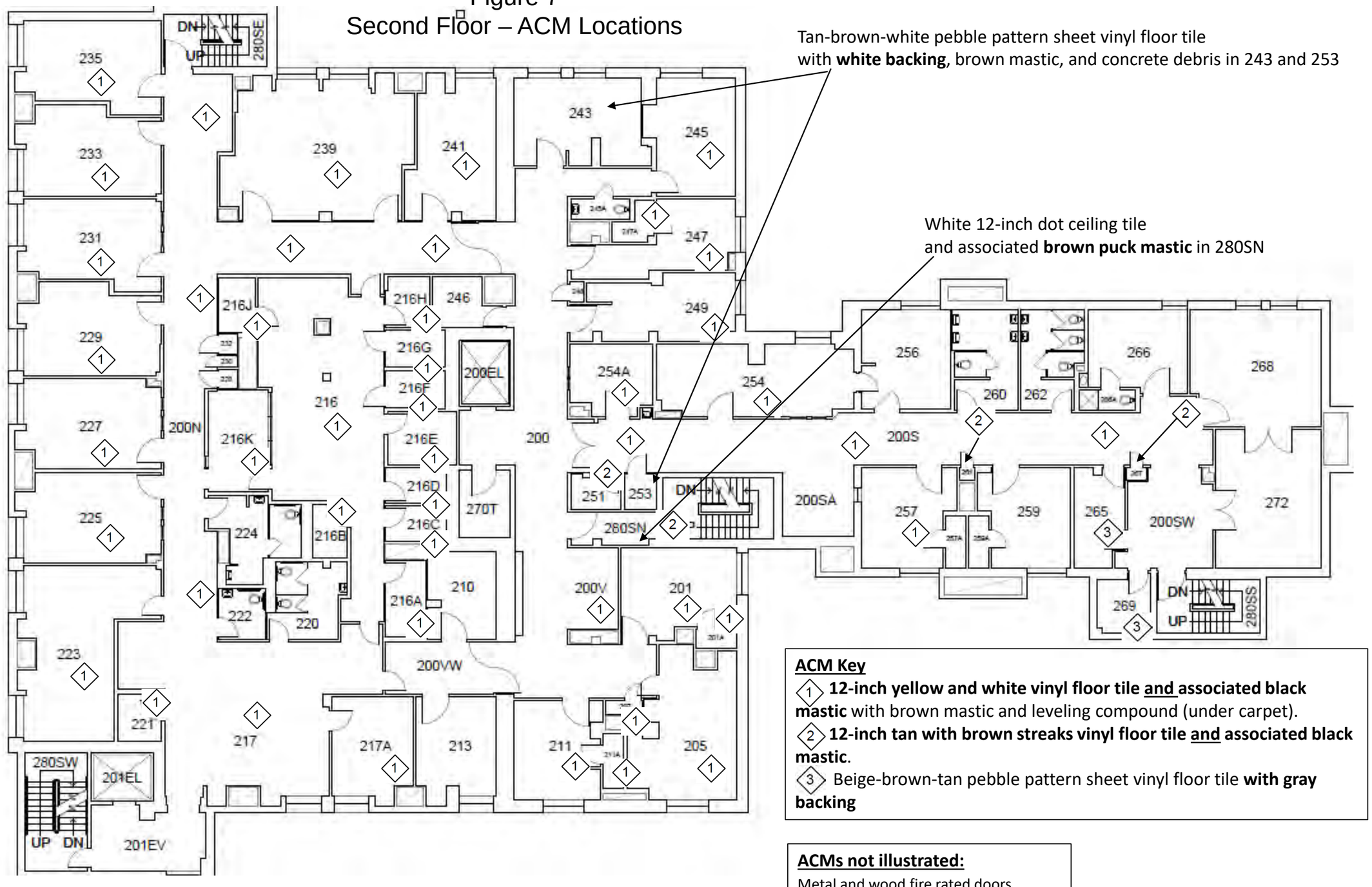


Key
BXX-0X-01 = Asbestos bulk sample location
PB-XX = Lead paint chip sample location

N

Not to scale

Figure 7
Second Floor – ACM Locations



Tan-brown-white pebble pattern sheet vinyl floor tile with **white backing**, brown mastic, and concrete debris in 243 and 253

White 12-inch dot ceiling tile and associated **brown puck mastic** in 280SN

ACM Key

1 **12-inch yellow and white vinyl floor tile and associated black mastic** with brown mastic and leveling compound (under carpet).

2 **12-inch tan with brown streaks vinyl floor tile and associated black mastic**.

3 Beige-brown-tan pebble pattern sheet vinyl floor tile **with gray backing**

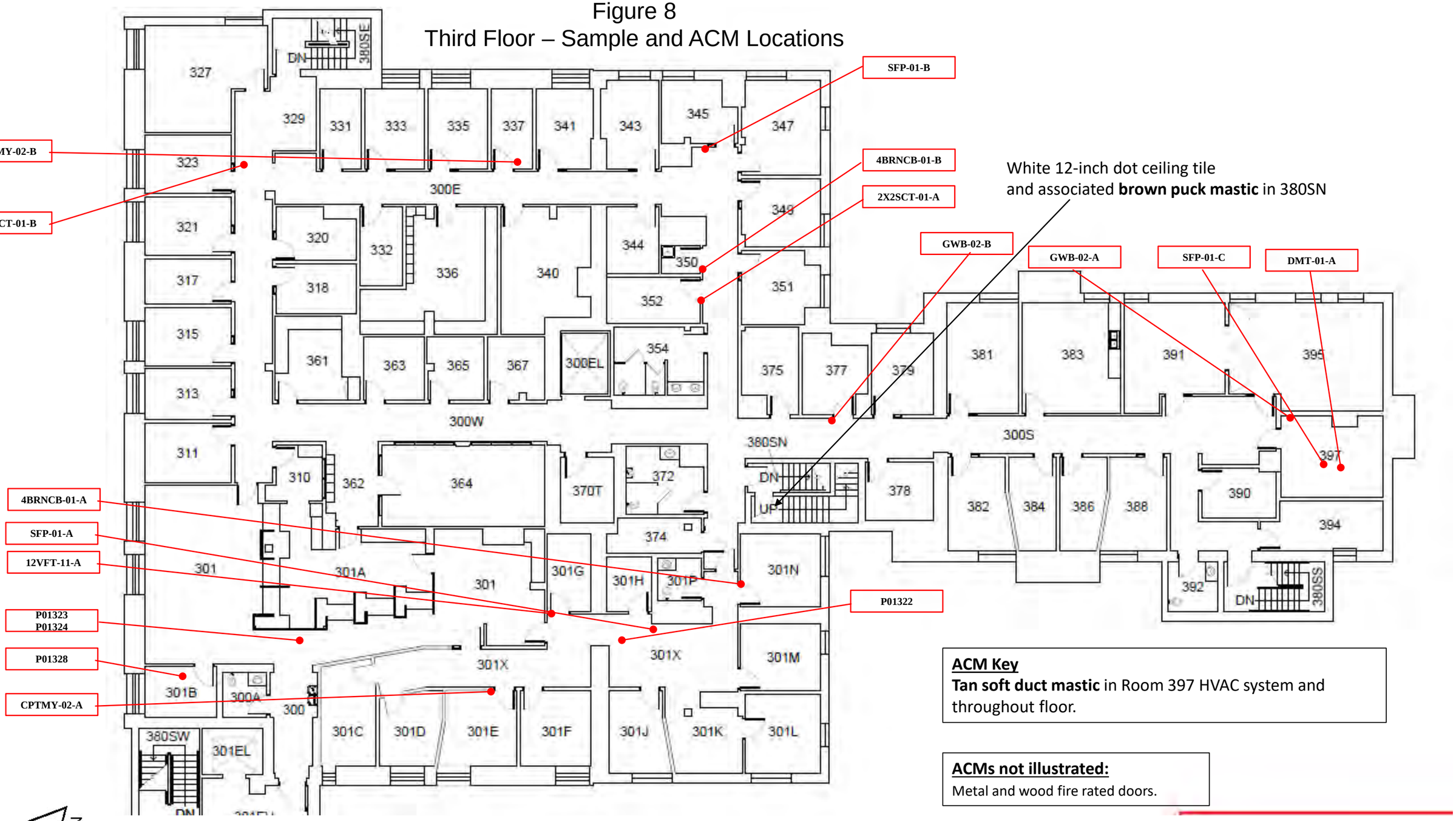
ACMs not illustrated:

Metal and wood fire rated doors.

N

Not to scale

Figure 8
Third Floor – Sample and ACM Locations



White 12-inch dot ceiling tile
and associated **brown puck mastic** in 380SN

ACM Key
Tan soft duct mastic in Room 397 HVAC system and throughout floor.

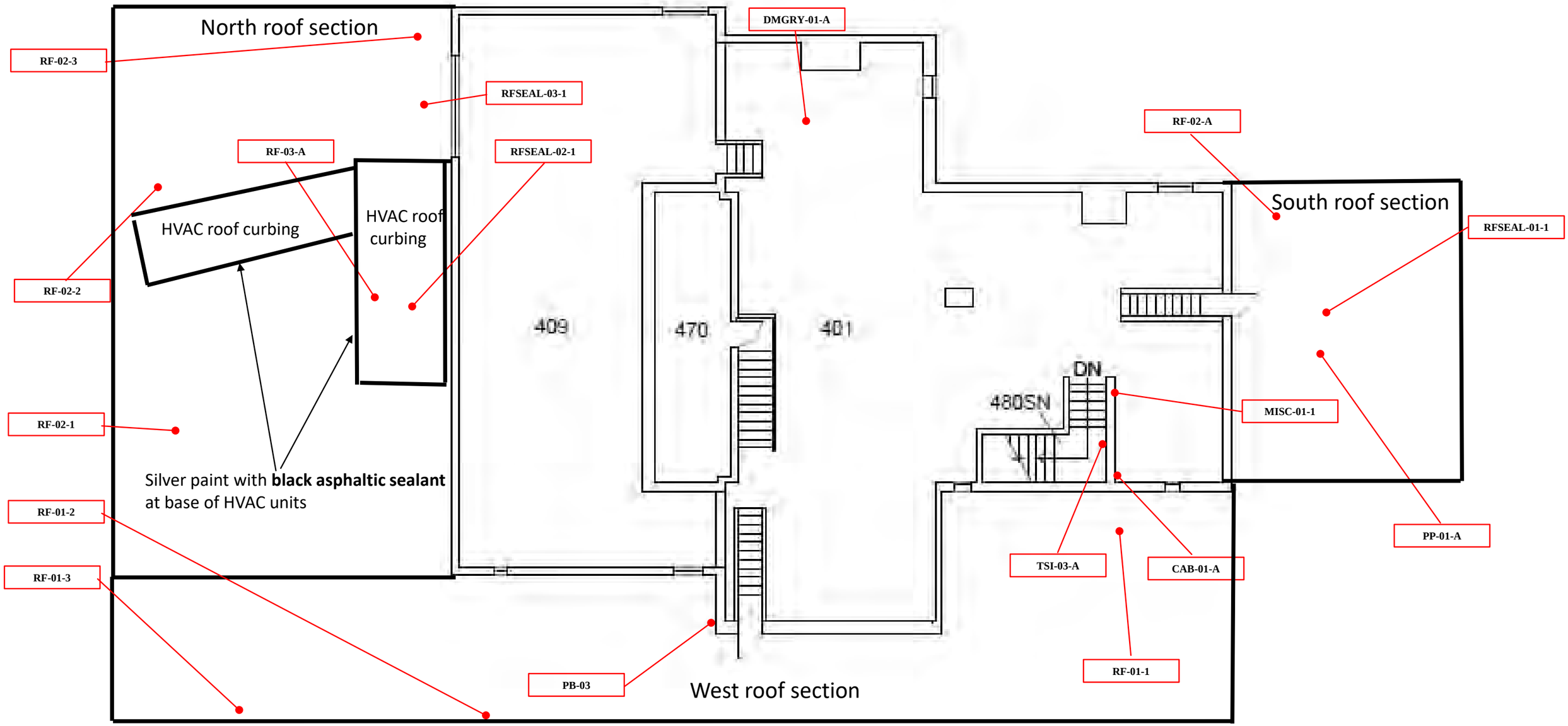
ACMs not illustrated:
Metal and wood fire rated doors.

Key
BXX-0X-01 = Asbestos bulk sample location
PB-XX = Lead paint chip sample location

N

Not to scale

Figure 9
Mechanical Penthouse and Roof – Sample and ACM Locations



ACM Key

1. Asbestos-containing **vertical pipe insulation** painted black at stair landing 480SN.
2. **White cement asbestos board and associated black mastic** at 480 SN and south end of 401.

Key

BXX-0X-01 = Asbestos bulk sample location
PB-XX = Lead paint chip sample location

ACMs not illustrated:

Metal and wood fire rated doors.

N

Not to scale

APPENDIX A
Photographic Log

Washington State University Environmental Health and Safety	PHOTOGRAPHIC LOG

Good Faith Survey	WASHINGTON BUILDING	**Date:** June 2021

Photo No.
1

Location: Basement B6

Description:
View of **magnesia/air-cell** domestic water and heating **pipe insulation runs and elbows**.



Photo No.
2

Location: G100 Hallway

Description:
View of **white-gray thick plaster skim coat and gray scratch** coat on ceiling.



Washington State University Environmental Health and Safety	PHOTOGRAPHIC LOG

Good Faith Survey	WASHINGTON BUILDING	**Date:** June 2021

Photo No. **3**

Location Room 243

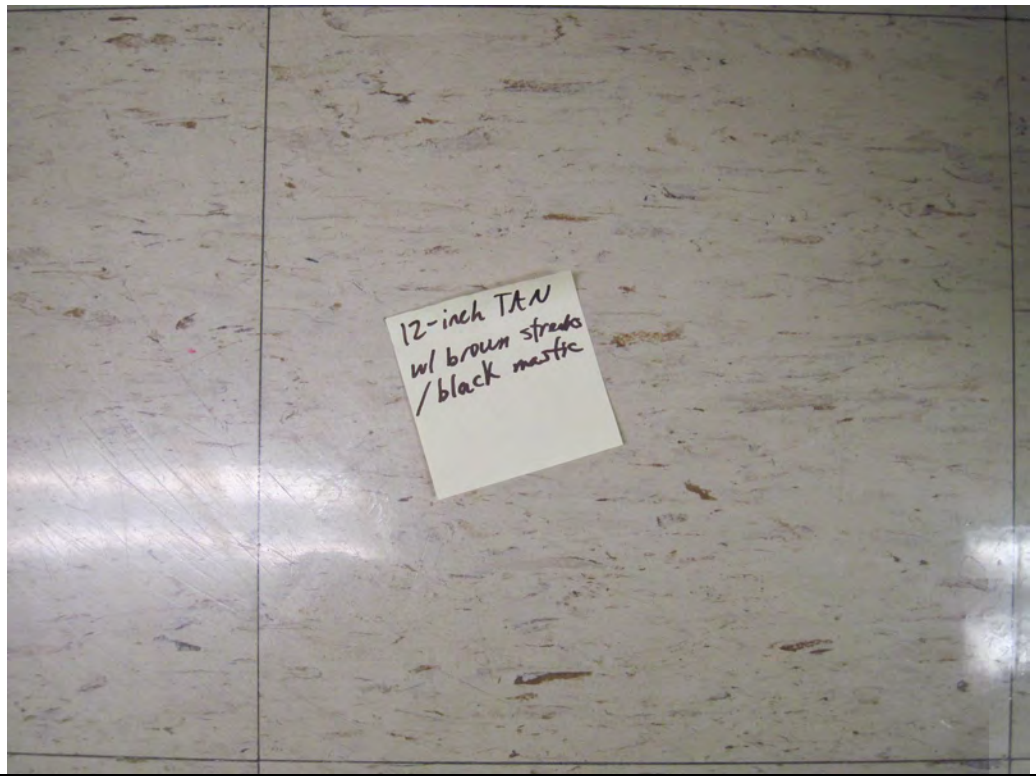
Description:
View of **12-inch yellow and white vinyl floor tile and associated black mastic** with brown mastic and leveling compound under carpeted offices, hallways, and storage areas.



Photo No. **4**

Location: Room 147

Description:
View of **12-inch tan with brown streak vinyl floor tile and associated black mastic.**



Washington State University Environmental Health and Safety	PHOTOGRAPHIC LOG

Good Faith Survey	WASHINGTON BUILDING	**Date:** June 2021

Photo No.
5

Location: G100 Hallway

Description: View of **9-inch olive with white and black streaks vinyl floor tile** and black mastic.

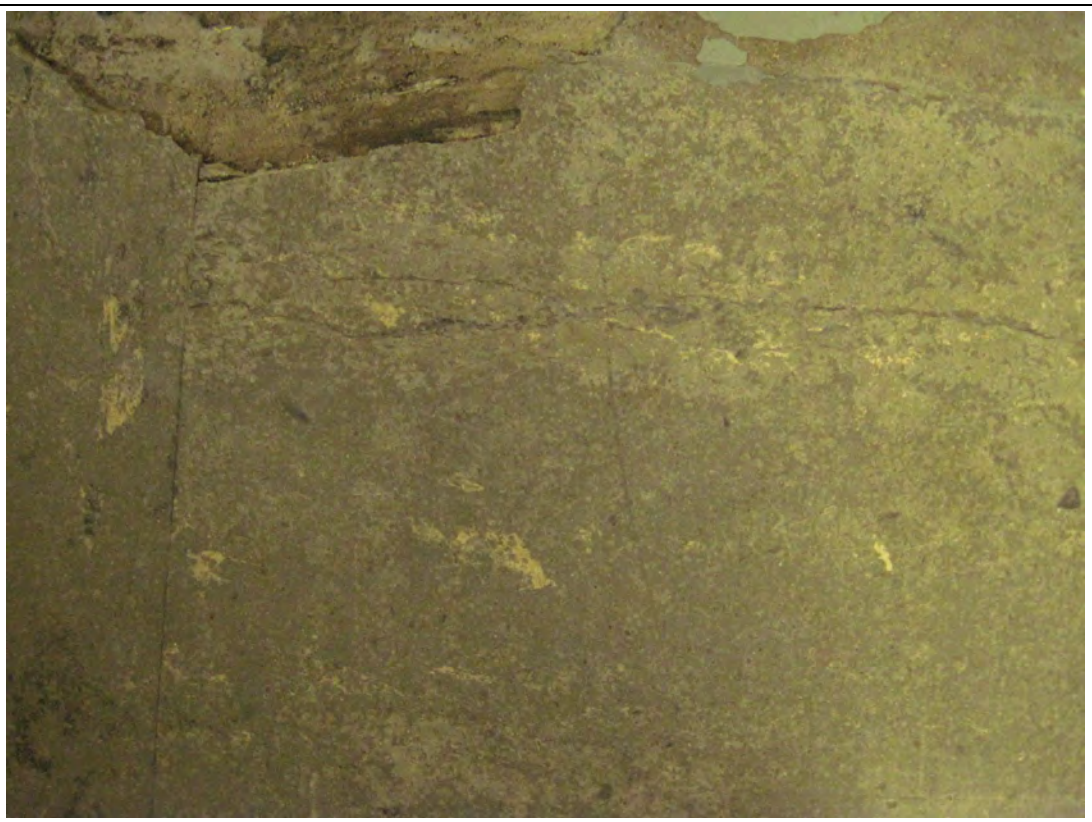
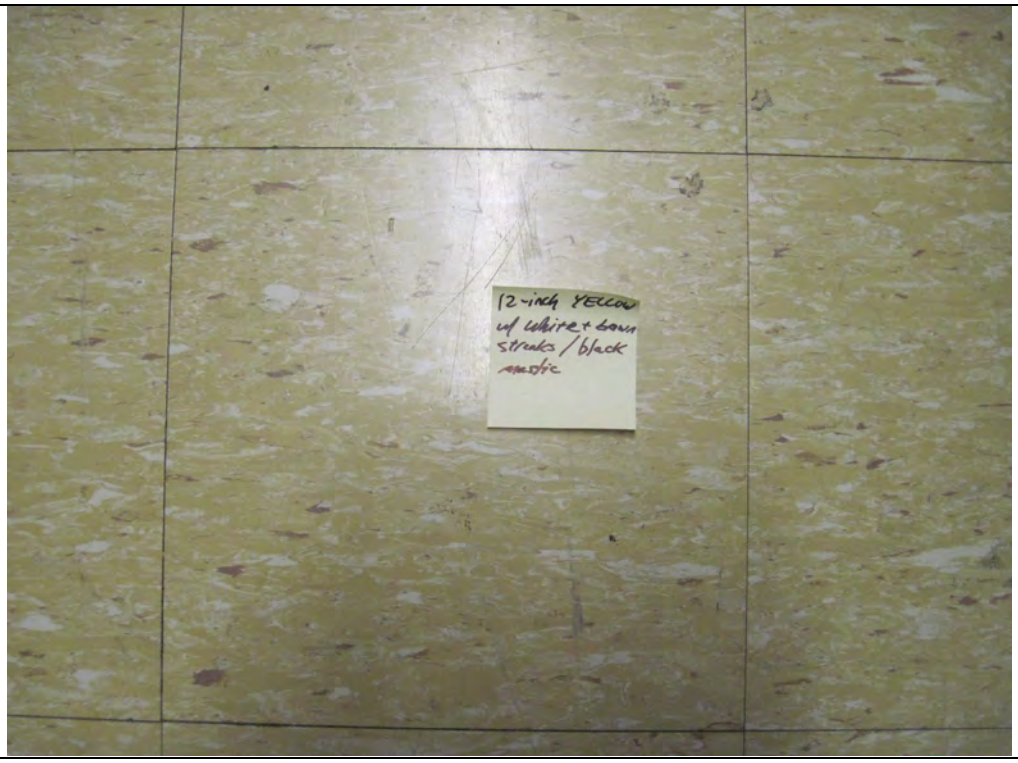


Photo No.
6

Location: Room 118AA

Description: View of **12-inch yellow with white and brown streak vinyl floor tile <u>and</u> associated black mastic**.



Washington State University Environmental Health and Safety	PHOTOGRAPHIC LOG

Good Faith Survey	WASHINGTON BUILDING	**Date:** June 2021

Photo No. **7**

Location: G100 Hallway south elevator

Description: View of **12-inch cream with brown and gray streaks vinyl floor tile <u>and</u> associated tan and black mastic.**



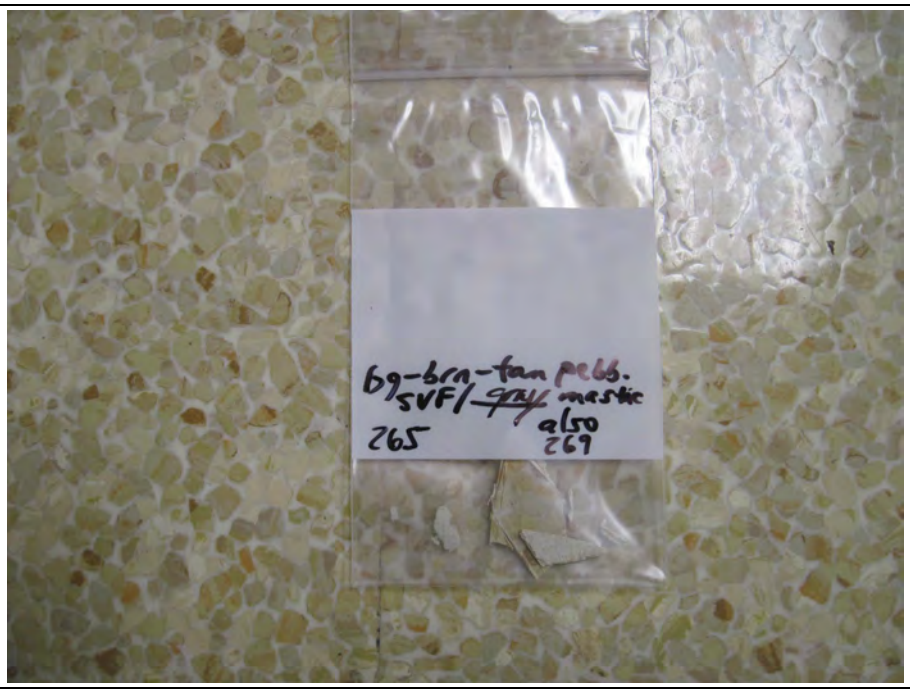
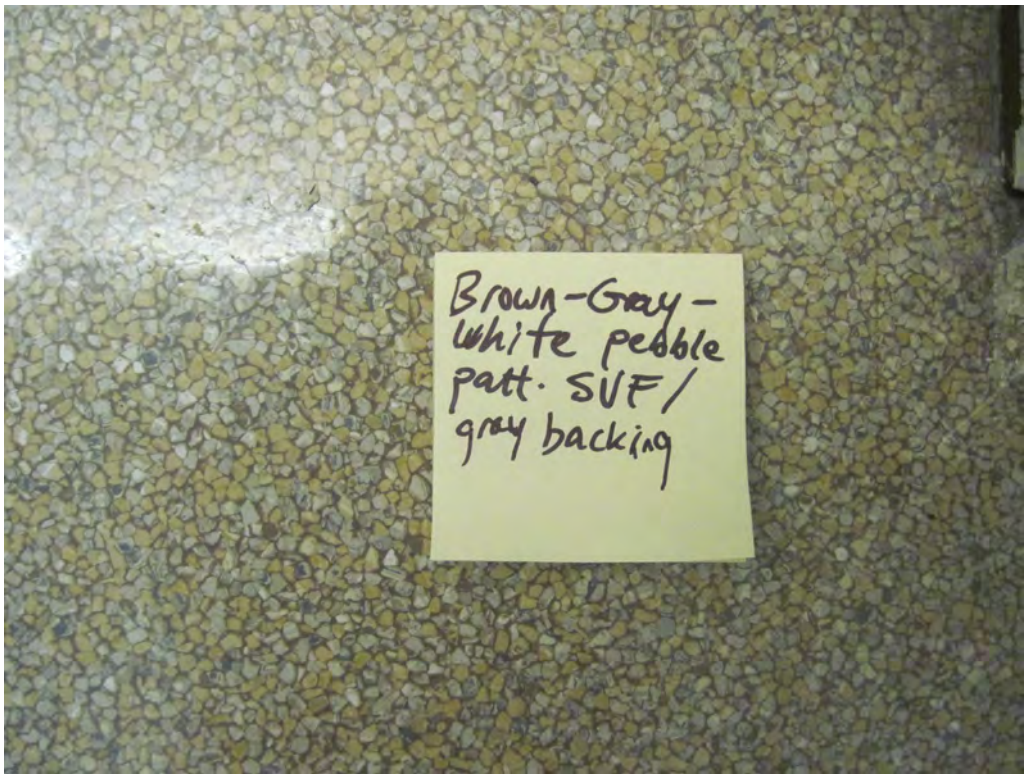
Photo No. **8**

Location: Room 138

Description: View of tan-beige square pattern sheet vinyl floor tile with yellow mastic and **gray backing**.



Washington State University Environmental Health and Safety		PHOTOGRAPHIC LOG
Good Faith Survey	WASHINGTON BUILDING	**Date:** June 2021

Photo No. **9**	
Location: Room 265	
Description: View of beige-brown-tan pebble pattern sheet vinyl floor tile with **gray backing**	
Photo No. **10**	
Location: Room 118B	
Description: View of brown-gray-white pebble pattern sheet vinyl floor tile with yellow mastic and **gray backing**	

Washington State University Environmental Health and Safety	PHOTOGRAPHIC LOG

Good Faith Survey	WASHINGTON BUILDING	**Date:** June 2021

Photo No. **11**

Location: Room 137A

Description: View of tan-brown-white square pattern sheet vinyl floor tile with yellow mastic and **gray backing**

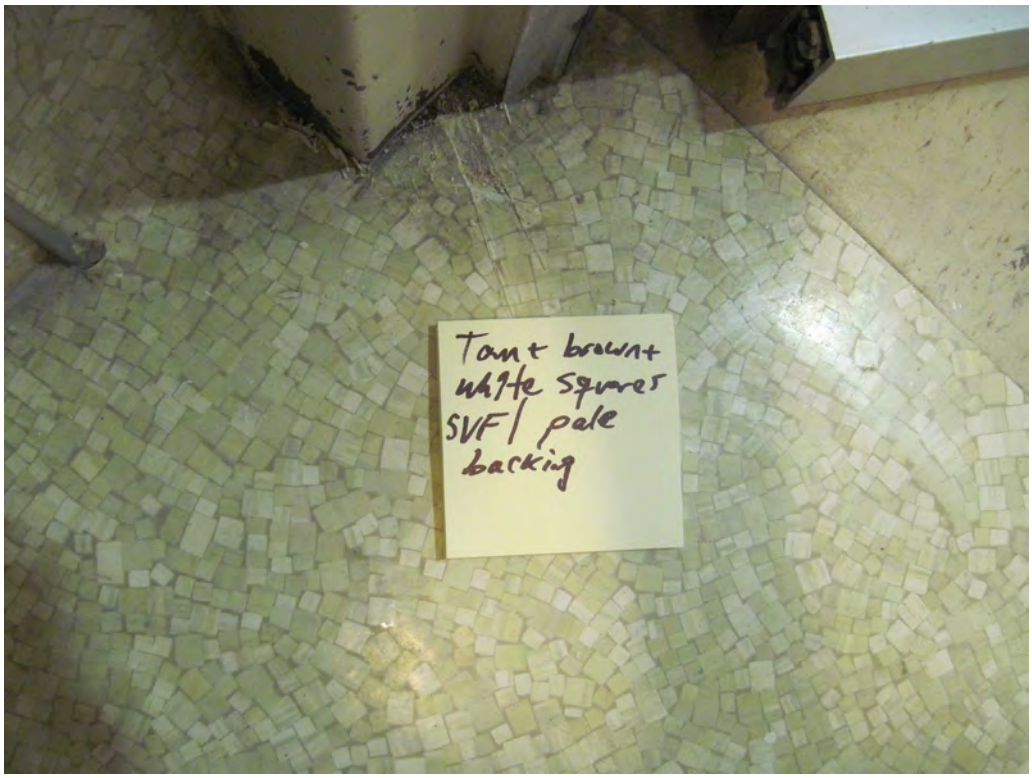


Photo No.

Location:

Description:

Washington State University Environmental Health and Safety	PHOTOGRAPHIC LOG	
Good Faith Survey	WASHINGTON BUILDING	**Date:** June 2021

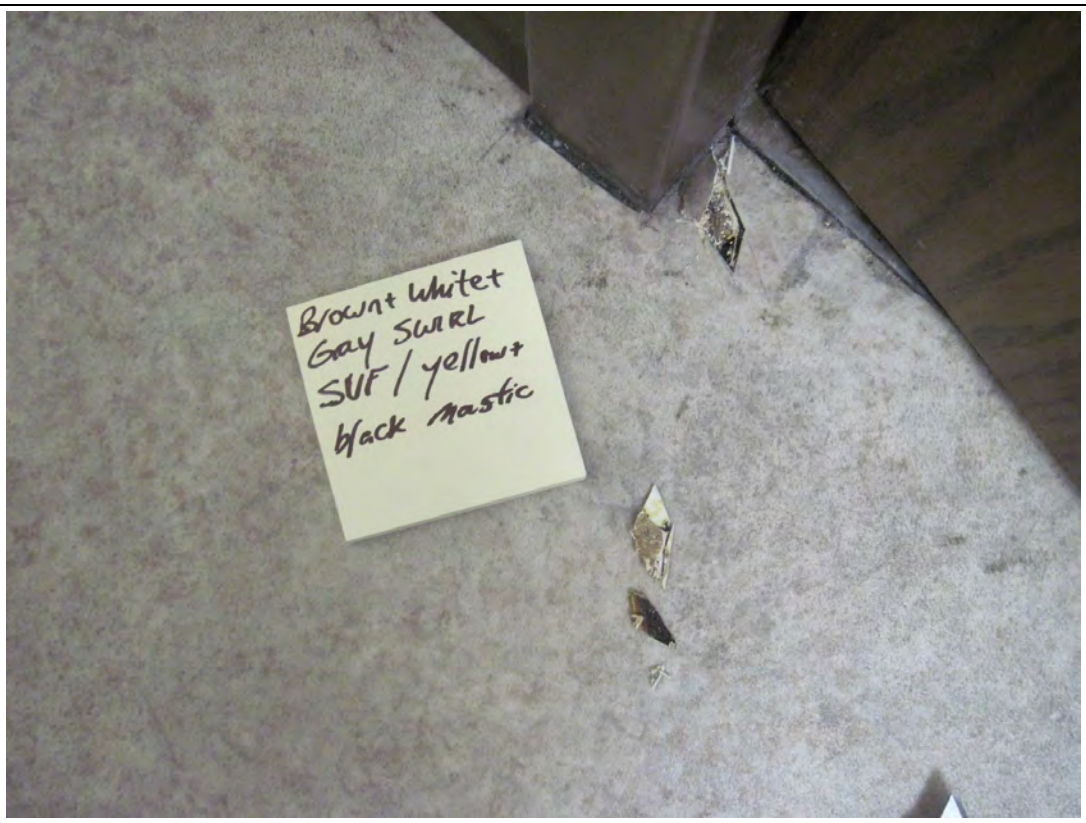
Photo No. **12**	
Location: Room 164	
Description: View of brown-white-gray sheet vinyl floor tile with yellow mastic, **black mastic**, and gray backing.	

Photo No. **13**	
Location: Room 169C	
Description: View of tan-beige pebble pattern sheet vinyl floor tile with yellow mastic, **black mastic, and gray backing.**	

Washington State University Environmental Health and Safety	PHOTOGRAPHIC LOG

Good Faith Survey	WASHINGTON BUILDING	**Date:** June 2021

Photo No.
14

Location: Room 243

Description:
View of tan-brown-white small pebble pattern sheet vinyl floor tile with **white-gray backing**, brown mastic, and concrete debris.



Photo No.
15

Location: Room G25

Description:
View of tan-cream pebble pattern sheet vinyl floor tile with tan mastic (top) and sheet vinyl with **gray backing (bottom).**



Washington State University Environmental Health and Safety	PHOTOGRAPHIC LOG

Good Faith Survey	WASHINGTON BUILDING	**Date:** June 2021

Photo No.
16

Location: G100 Hallway north

Description: View of white 12-inch dot ceiling tile and associated **brown puck mastic.**

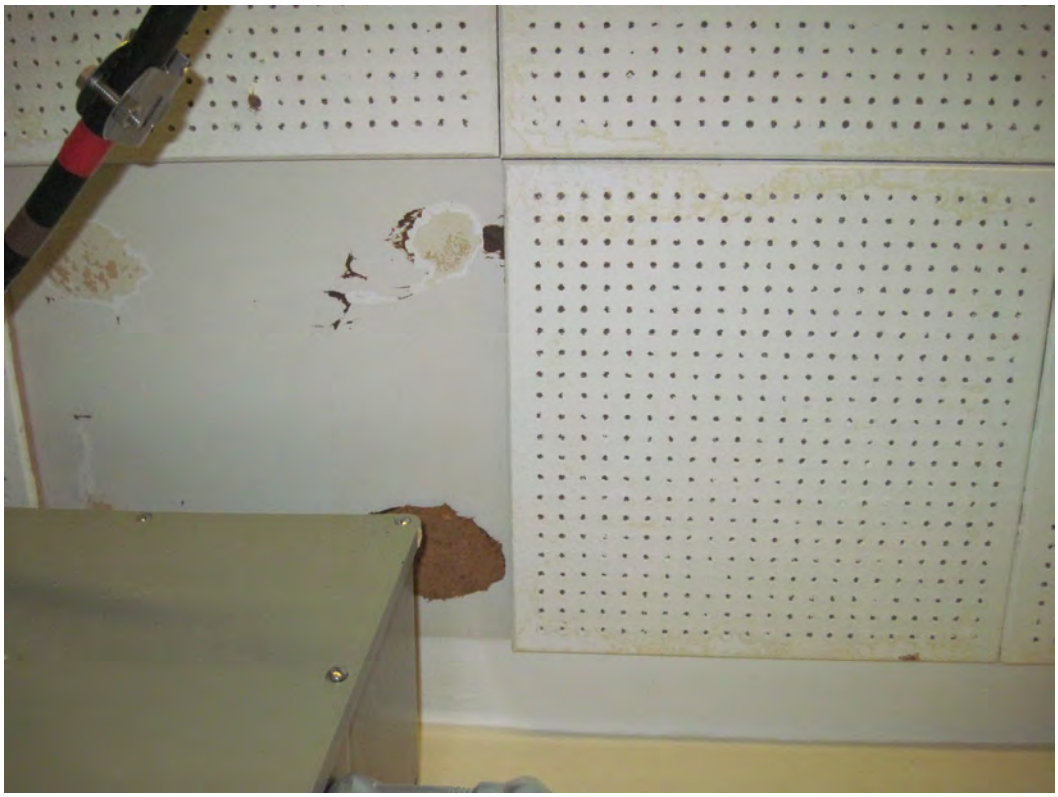


Photo No.
17

Location: G100 at G32

Description: View of white 12-inch large etch-dot ceiling tile and associated **brown puck mastic.**



Washington State University Environmental Health and Safety	PHOTOGRAPHIC LOG

Good Faith Survey	WASHINGTON BUILDING	**Date:** June 2021

Photo No. **18**

Location: Room 397

Description: View of **tan soft duct mastic** on HVAC chiller unit**.**



Photo No. **19**

Location: Room 480SN and 401 perimeter

Description: View of **white cement asbestos board and associated black mastic** on concrete.



Washington State University Environmental Health and Safety	PHOTOGRAPHIC LOG

Good Faith Survey	WASHINGTON BUILDING	**Date:** June 2021

Photo No.
20

Location: Penthouse roof: North end at HVAC base curb locations

Description: View of silver paint with **black asphaltic sealant** at base of HVAC units.



Photo No.
21

Location: Room G32

Description: View of **dark brown mastic** under wood wall paneling.



Washington State University Environmental Health and Safety	PHOTOGRAPHIC LOG

Good Faith Survey	WASHINGTON BUILDING	**Date:** June 2021

Photo No. **22**

Location: Stairwell door at 280SN



Description: View of door labeled with fire rating.

Photo No.

Location:

Description:

APPENDIX B

Table Summary of Asbestos Sampling and Analytical Results

TABLE SUMMARY OF ASBESTOS SAMPLING AND ANALYTICAL RESULTS
WASHINGTON BUILDING

Sample #	Building Name	Building #	Sample Location	Material	Material Description/color	Type	Quantity	Quantity Descriptor	Comments	Sample Results	ACM ?	Homogenous Material Location
CEILING FINISHES												
12CT-01-A	**Washington**	**0015**	**G100 North**	**Ceiling tile**	Layer 1: White 12-inch dot ceiling tile **Layer 2: Brown puck mastic** Layer 3: White brittle paint	**Misc.**	**500**	**SF**	**-**	Layer 1: ND **Layer 2: 3% CHR** Layer 3: ND	**Yes**	**G100 north end, Central stairwell: 1st and 2nd floors**
12CT-01-B	**Washington**	**0015**	**280 SN stairwell**	**Ceiling tile**	Layer 1: White 12-inch dot ceiling tile **Layer 2: Brown puck mastic** Layer 3: White brittle paint	**Misc.**	**500**	**SF**	**-**	Layer 1: ND **Layer 2: 3% CHR** Layer 3: ND	**Yes**	**G100 north end, Central stairwell: 1st and 2nd floors**
12CT-02-A	**Washington**	**0015**	**G100 North**	**Ceiling tile**	Layer 1: White 12-inch large etch-dot ceiling tile **Layer 2: Brown puck mastic**	**Misc.**	**150**	**SF**	**-**	Layer 1: ND **Layer 2: 4% CHR**	**Yes**	**G100: north and south ends**
12CT-02-B	**Washington**	**0015**	**G100 @ G32**	**Ceiling tile**	Layer 1: White 12-inch large etch-dot ceiling tile **Layer 2: Brown puck mastic**	**Misc.**	**150**	**SF**	**-**	Layer 1: ND **Layer 2: 4% CHR**	**Yes**	**G100: north and south ends**
2X4SCT-01-A	Washington	0015	G80VW	Ceiling tile	White 2 ft. by 4 ft. multi-small dot suspended ceiling tile	Misc.	-	SF	-	ND	No	G80VW, 100VE
2X4SCT-01-B	Washington	0015	100VE	Ceiling tile	White 2 ft. by 4 ft. multi-small dot suspended ceiling tile	Misc.	-	SF	-	ND	No	G80VW, 100VE
2X4SCT-02-A	Washington	0015	G22	Ceiling tile	White 2 ft. by 4 ft. etch-pinhole suspended ceiling tile	Misc.	-	SF	-	ND	No	G22, G60 Suite
2X4SCT-02-B	Washington	0015	G60D	Ceiling tile	White 2 ft. by 4 ft. etch-pinhole suspended ceiling tile	Misc.	-	SF	-	ND	No	G22, G60 Suite
2X4SCT-03-A	Washington	0015	@ 243	Ceiling tile	White 2 ft. by 4 ft. small hole suspended ceiling tile	Misc.	-	SF	-	ND	No	2nd floor
2X4SCT-03-B	Washington	0015	217	Ceiling tile	White 2 ft. by 4 ft. small hole suspended ceiling tile	Misc.	-	SF	-	ND	No	2nd floor
2X4SCT-04-A	Washington	0015	B2	Ceiling tile	Layer 1: White 2 ft. by 4 ft. hole cellulose Layer 2: Yellow foam	Misc.	-	SF	-	ND	No	Basement floor
2X4SCT-04-B	Washington	0015	B1	Ceiling tile	Layer 1: White 2 ft. by 4 ft. hole cellulose Layer 2: Yellow foam	Misc.	-	SF	-	ND	No	Basement floor
2X2SCT-01-A	Washington	0015	@ 352	Ceiling tile	2 ft. by 2 ft. rough texture suspended ceiling tile	Misc.	-	SF	-	ND	No	3rd floor
2X2SCT-01-B	Washington	0015	@ 323	Ceiling tile	2 ft. by 2 ft. rough texture suspended ceiling tile	Misc.	-	SF	-	ND	No	3rd floor
FLOORING FINISHES												
9VFT-01-A	**Washington**	**0015**	**G100 North end**	**Floor tile**	**Layer 1: 9-inch olive with white and black streak vinyl floor tile** Layer 2: Black mastic	**Misc.**	**1,500**	**SF**	**-**	**Layer 1: 12% CHR** Layer 2: ND	**Yes**	**G100 hallway**

Sample #	Building Name	Building #	Sample Location	Material	Material Description/color	Type	Quantity	Quantity Descriptor	Comments	Sample Results	ACM ?	Homogenous Material Location
9VFT-01-B	**Washington**	**0015**	**G100 @ double doors to load. dock**	**Floor tile**	**Layer 1: 9-inch olive with white and black streak vinyl floor tile** Layer 2: Black mastic	**Misc.**	**1,500**	**SF**	**-**	**Layer 1: 13% CHR** Layer 2: ND	**Yes**	**G100 hallway**
12VFT-01-A	**Washington**	**0015**	**G100 south end hallway**	**Floor tile**	**Layer 1: 12-inch cream with brown and gray streaks vinyl floor tile** **Layer 2: Tan and black mastic**	**Misc.**	**250**	**SF**	**-**	**Layer 1: 5% CHR** **Layer 2: 7% CHR**	**Yes**	**G100: south hallway and south elevator**
12VFT-01-B	**Washington**	**0015**	**G100 south elev.**	**Floor tile**	**Layer 1: 12-inch cream with brown and gray streaks vinyl floor tile** **Layer 2: Tan and black mastic**	**Misc.**	**250**	**SF**	**-**	**Layer 1: 4% CHR** **Layer 2: 7% CHR**	**Yes**	**G100: south hallway and south elevator**
12VFT-02-A	Washington	0015	G19	Floor tile	Layer 1: 12-inch orange with burgundy and white streaks vinyl floor tile Layer 2: Tan mastic Layer 3: Leveling compound	Misc.	-	SF	-	Layer 1: ND Layer 2: ND Layer 3: ND	No	G19
12VFT-03-A	Washington	0015	118A	Floor tile	12-inch white and light gray with gray streaks vinyl floor tile with clear mastic	Misc.	-	SF	-	ND	No	118A and 118E
12VFT-03-B	Washington	0015	118E	Floor tile	12-inch white and light gray with gray streaks vinyl floor tile with clear mastic	Misc.	-	SF	-	ND	No	118A and 118E
12VFT-04-A	**Washington**	**0015**	**118AA**	**Floor tile**	**Layer 1: 12-inch yellow with white and brown streaks vinyl floor tile** **Layer 2: Black mastic** Layer 3: Leveling compound	**Misc.**	**400**	**SF**	**-**	**Layer 1: 5% CHR** **Layer 2: 8% CHR** Layer 3: ND	**Yes**	**118AA and 118C**
12VFT-04-B	**Washington**	**0015**	**118C**	**Floor tile**	**Layer 1: 12-inch yellow with white and brown streaks vinyl floor tile** **Layer 2: Black mastic**	**Misc.**	**400**	**SF**	**-**	**Layer 1: 5% CHR** **Layer 2: 7% CHR**	**Yes**	**118AA and 118C**
12VFT-05-A	**Washington**	**0015**	**147**	**Floor tile**	**Layer 1:12-inch tan with brown streaks vinyl floor tile** **Layer 2: Black mastic**	**Misc.**	**3,500**	**SF**	**-**	**Layer 1: 7% CHR** **Layer 2: 9% CHR**	**Yes**	**100C, 100SE, 100SA/SB, 147, 251, 261, 267, 280SN stairwell**
12VFT-05-B	**Washington**	**0015**	**280SN stairwell**	**Floor tile**	**Layer 1: 12-inch tan with brown streaks vinyl floor tile** **Layer 2: Black mastic** Layer 3: Leveling compound	**Misc.**	**3,500**	**SF**	**-**	**Layer 1: 7% CHR** **Layer 2: 9% CHR** Layer 3: ND	**Yes**	**100C, 100SE, 100SA/SB, 147, 251, 261, 267, 280SN stairwell**
12VFT-06-A	Washington	0015	200 SW. corridor	Floor tile	Layer 1: 12-inch light pink with brown and white streaks vinyl floor tile Layer 2: Yellow mastic Layer 3: Leveling compound	Misc.	-	SF	-	Layer 1: ND Layer 2: ND Layer 3: ND	No	200SW corridor, 200SA
12VFT-06-B	Washington	0015	200SA	Floor tile	Layer 1: 12-inch light pink with brown and white streaks vinyl floor tile Layer 2: Yellow mastic	Misc.	-	SF	-	Layer 1: ND Layer 2: ND	No	200SW corridor, 200SA
12VFT-07-A	Washington	0015	103A	Floor tile	Layer 1: 12-inch light brown with tan and brown specks vinyl floor tile Layer 2: Yellow mastic	Misc.	-	SF	-	Layer 1: ND Layer 2: ND	No	103A, 103B, 103C
12VFT-07-B	Washington	0015	103C	Floor tile	Layer 1: 12-inch light brown with tan and brown specks vinyl floor tile Layer 2: Yellow mastic	Misc.	-	SF	-	Layer 1: ND Layer 2: ND	No	103A, 103B, 103C
12VFT-08-A	Washington	0015	104	Floor tile	Layer 1: 12-inch light pink with white and orange streaks vinyl floor tile Layer 2: Yellow mastic	Misc.	-	SF	-	Layer 1: ND Layer 2: ND	No	100N hallway, 104, 105, 107-109, 111

Sample #	Building Name	Building #	Sample Location	Material	Material Description/color	Type	Quantity	Quantity Descriptor	Comments	Sample Results	ACM ?	Homogenous Material Location
12VFT-08-B	Washington	0015	108	Floor tile	Layer 1: 12-inch light pink with white and orange streaks vinyl floor tile Layer 2: Yellow mastic	Misc.	-	SF	-	Layer 1: ND Layer 2: ND	No	100N hallway, 104, 105, 107-109, 111
12VFT-09-A	Washington	0015	@ B6	Floor tile	Layer 1: 12-inch white with black streaks vinyl floor tile Layer 2: Yellow mastic Layer 3: Leveling compound	Misc.	-	SF	-	Layer 1: ND Layer 2: ND Layer 3: ND	No	B4, B80 hallway
12VFT-09-B	Washington	0015	B80 @ stairs	Floor tile	Layer 1: 12-inch white with black streaks vinyl floor tile Layer 2: Yellow mastic	Misc.	-	SF	-	Layer 1: ND Layer 2: ND	No	B4, B80 hallway
12VFT-10-A	Washington	0015	G100 ramp	Floor tile	Layer 1: 12-inch light gray with dark gray and white streaks vinyl floor tile Layer 2: Black mastic Layer 3: Tan mastic Layer 4: Leveling compound	Misc.	-	SF	-	Layer 1: ND Layer 2: ND Layer 3: ND Layer 4: ND	No	G100 ramp
12VFT-11-A	Washington	0015	301G	Floor tile	Layer 1: 12-inch beige and tan with light brown specks vinyl floor tile Layer 2: Yellow mastic	Misc.	-	SF	-	Layer 1: ND Layer 2: ND	No	301G, 361
12VFT-12-A	**Washington**	**0015**	**175**	**Floor tile**	**Layer 1: 12-inch yellow and white vinyl floor tile** **Layer 2: Black mastic** Layer 3: Clear mastic	**Misc.**	**8,000**	**SF**	**Under carpet**	**Layer 1: 5% CHR** **Layer 2: 7% CHR** Layer 3: ND	**Yes**	**1st floor: 118D, 122D, 126, 130, 130A, 133, 133A, 134, 135, 143, 145, 151, 153, 165, 175, 177, 185, 187** **2nd floor: Access center 216-241 offices and hallway, 200V, 200S, 200SW, 201, 201A, 205, 207, 211, 211A, 245, 247, 247A, 249, 254, 254A, 257**
12VFT-12-B	**Washington**	**0015**	**243**	**Floor tile**	**Layer 1: 12-inch yellow and white vinyl floor tile** **Layer 2: Black mastic** Layer 3: Brown mastic Layer 4: Leveling compound	**Misc.**	**8,000**	**SF**	**Under sheet vinyl**	**Layer 1: 5% CHR** **Layer 2: 7% CHR** Layer 3: ND Layer 4: ND	**Yes**	**1st floor: 118D, 122D, 126, 130, 130A, 133, 133A, 134, 135, 143, 145, 151, 153, 165, 175, 177, 185, 187** **2nd floor: Access center 216-241 offices and hallway, 200V, 200S, 201, 201A, 205, 207, 211, 211A, 245, 247, 247A, 249, 254, 254A, 257**
12VFT-12-C	**Washington**	**0015**	**@ 257**	**Floor tile**	**Layer 1: 12-inch yellow and white vinyl floor tile** **Layer 2: Black mastic** Layer 3: Brown mastic Layer 4: Leveling compound	**Misc.**	**8,000**	**SF**	**Under carpet**	**Layer 1: 6% CHR** **Layer 2: 6% CHR** Layer 3: ND Layer 4: ND	**Yes**	**1st floor: 118D, 122D, 126, 130, 130A, 133, 133A, 134, 135, 143, 145, 151, 153, 165, 175, 177, 185, 187** **2nd floor: Access center 216-241 offices and hallway, 200V, 200S, 201, 201A, 205, 207, 211, 211A, 245, 247, 247A, 249, 254, 254A, 257**

Sample #	Building Name	Building #	Sample Location	Material	Material Description/color	Type	Quantity	Quantity Descriptor	Comments	Sample Results	ACM ?	Homogenous Material Location
12VFT-12-D	**Washington**	**0015**	**217 lobby**	**Floor tile**	**Layer 1: 12-inch yellow and white vinyl floor tile** **Layer 2: Black mastic** Layer 3: Clear mastic	**Misc.**	**8,000**	**SF**	**Under carpet**	**Layer 1: 6% CHR** **Layer 2: 7% CHR** Layer 3: ND	**Yes**	**1st floor: 118D, 122D, 126, 130, 130A, 133, 133A, 134, 135, 143, 145, 151, 153, 165, 175, 177, 185, 187** **2nd floor: Access center 216-241 offices and hallway, 200V, 200S, 201, 201A, 205, 207, 211, 211A, 245, 247, 247A, 249, 254, 254A, 257**
12VFT-12-E	**Washington**	**0015**	**217 lobby**	**Floor tile**	**Layer 1: 12-inch yellow and white vinyl floor tile** Layer 2: Yellow mastic **Layer 3: Black mastic** Layer 4: Gray backing	**Misc.**	**8,000**	**SF**	**Under carpet**	**Layer 1: 2% CHR** Layer 2: ND **Layer 3: 3% CHR** Layer 4: <1% CHR	**Yes**	**1st floor: 118D, 122D, 126, 130, 130A, 133, 133A, 134, 135, 143, 145, 151, 153, 165, 175, 177, 185, 187** **2nd floor: Access center 216-241 offices and hallway, 200V, 200S, 201, 201A, 205, 207, 211, 211A, 245, 247, 247A, 249, 254, 254A, 257**
SVF-01-A	Washington	0015	B1	Sheet vinyl	Layer 1: Light pink pebble pattern sheet vinyl floor tile Layer 2: Tan-brown mastic Layer 3: Gray backing	Misc.	-	SF	-	Layer 1: ND Layer 2: ND Layer 3: ND	No	B1, B2
SVF-01-B	Washington	0015	B2	Sheet vinyl	Layer 1: Light pink pebble pattern sheet vinyl floor tile Layer 2: Tan-brown mastic Layer 3: Gray backing	Misc.	-	SF	-	Layer 1: ND Layer 2: ND Layer 3: ND	No	B1, B2
SVF-02-A	Washington	0015	G24	Sheet vinyl	Layer 1: Light pink with brown and tan specks sheet vinyl floor tile Layer 2: Tan mastic Layer 3: Gray backing	Misc.	-	SF	-	Layer 1: ND Layer 2: ND Layer 3: ND	No	G24, G60F
SVF-02-B	Washington	0015	G60F	Sheet vinyl	Layer 1: Light pink pebble pattern sheet vinyl floor tile Layer 2: Yellow mastic-backing	Misc.	-	SF	-	Layer 1: ND Layer 2: ND	No	G24, G60F
SVF-03-A	**Washington**	**0015**	**118B**	**Sheet vinyl**	Layer 1: Brown-Gray-White pebble pattern sheet vinyl floor tile Layer 2: Yellow mastic **Layer 3: Gray backing**	**Misc.**	**100**	**SF**	**-**	Layer 1: ND Layer 2: ND **Layer 3: 45% CHR**	**Yes**	**118B, 118F**
SVF-03-B	**Washington**	**0015**	**118F**	**Sheet vinyl**	Layer 1: Brown-Gray-White pebble pattern sheet vinyl floor tile Layer 2: Yellow mastic **Layer 3: Gray backing**	**Misc.**	**100**	**SF**	**-**	Layer 1: ND Layer 2: ND **Layer 3: 47% CHR**	**Yes**	**118B, 118F**
SVF-04-A	**Washington**	**0015**	**180**	**Sheet vinyl**	Layer 1: Tan-Beige square pattern sheet vinyl floor tile Layer 2: Yellow mastic **Layer 3: Gray backing**	**Misc.**	**250**	**SF**	**-**	Layer 1: ND Layer 2: ND **Layer 3: 45% CHR**	**Yes**	**138, 180**
SVF-04-B	**Washington**	**0015**	**138**	**Sheet vinyl**	Layer 1: Tan-Beige square pattern sheet vinyl floor tile Layer 2: Yellow mastic **Layer 3: Gray backing**	**Misc.**	**250**	**SF**	**-**	Layer 1: ND Layer 2: ND **Layer 3: 47% CHR**	**Yes**	**138, 180**

Sample #	Building Name	Building #	Sample Location	Material	Material Description/color	Type	Quantity	Quantity Descriptor	Comments	Sample Results	ACM ?	Homogenous Material Location
SVF-05-A	Washington	0015	110	Sheet vinyl	Layer 1: Cream with white and brown specks sheet vinyl floor tile Layer 2: Brown mastic-backing	Misc.	-	SF	-	Layer 1: ND Layer 2: ND	No	106E, 110
SVF-05-B	Washington	0015	106E	Sheet vinyl	Layer 1: Cream with white and brown specks sheet vinyl floor tile Layer 2: Brown mastic Layer 3: Gray backing	Misc.	-	SF	-	Layer 1: ND Layer 2: ND Layer 3: ND	No	106E, 110
SVF-06-A	Washington	0015	B3A	Sheet vinyl	Layer 1: Tan square pattern sheet vinyl floor tile Layer 2: Brown mastic Layer 3: Gray backing	Misc.	-	SF	-	Layer 1: ND Layer 2: ND Layer 3: ND	No	B3A
SVF-07-A	Washington	0015	G60D	Sheet vinyl	Layer 1: Gray-Dark brown-white small pebble pattern sheet vinyl floor tile Layer 2: Yellow mastic	Misc.	-	SF	-	Layer 1: ND Layer 2: ND	No	G60D
SVF-08-A	Washington	0015	G40C	Sheet vinyl	Layer 1: Gray-white-tan sheet vinyl floor tile Layer 2: Brown mastic Layer 3: Gray backing Layer 4: White concrete	Misc.	-	SF	-	Layer 1: ND Layer 2: ND Layer 3: ND Layer 4: ND	No	G40C
SVF-09-A	Washington	0015	119	Sheet vinyl	Layer 1: Gray with white-brown-dark gray pebble pattern sheet vinyl floor tile Layer 2: Tan mastic Layer 3: Gray backing Layer 4: White concrete	Misc.	-	SF	-	Layer 1: ND Layer 2: ND Layer 3: ND Layer 4: ND	No	117, 119
SVF-10-A	**Washington**	**0015**	**137A**	**Sheet vinyl**	Layer 1: Tan-brown-white square pattern sheet vinyl floor tile Layer 2: Yellow mastic **Layer 3: Gray backing**	**Misc.**	**25**	**SF**	**-**	Layer 1: Layer 2: **Layer 3: 48% CHR**	**Yes**	**137A**
SVF-11-A	**Washington**	**0015**	**164**	**Sheet vinyl**	Layer 1: Brown-white-gray sheet vinyl floor tile Layer 2: Yellow mastic **Layer 3: Black mastic** Layer 4: Gray backing	**Misc.**	**25**	**SF**	**-**	Layer 1: Layer 2: **Layer 3: 5% CHR** Layer 4:	**Yes**	**164**
SVF-12-A	**Washington**	**0015**	**169C**	**Sheet vinyl**	Layer 1: Tan-beige pebble pattern sheet vinyl floor tile Layer 2: Yellow mastic **Layer 3: Black mastic** **Layer 4: Gray backing**	**Misc.**	**25**	**SF**	**-**	Layer 1: Layer 2: **Layer 3: 8% CHR** **Layer 4: 46% CHR**	**Yes**	**169C**
SVF-13-A	**Washington**	**0015**	**253**	**Sheet vinyl**	Layer 1: Tan-brown-white pebble pattern sheet vinyl floor tile **Layer 2: White backing** Layer 3: Brown mastic Layer 4: White concrete	**Misc.**	**100**	**SF**	**-**	Layer 1: ND **Layer 2: 45% CHR** Layer 3: ND Layer 4: ND	**Yes**	**243 and 253**
SVF-14-A	**Washington**	**0015**	**265**	**Sheet vinyl**	Layer 1: Beige-brown-tan pebble pattern sheet vinyl floor tile **Layer 2: Gray backing** Layer 3: Brown mastic	**Misc.**	**150**	**SF**	**-**	Layer 1: ND **Layer 2: 46% CHR** Layer 3: ND	**Yes**	**265, 269**
SVF-15-A	Washington	0015	256	Sheet vinyl	Layer 1: White-tan small pebble pattern sheet vinyl floor tile Layer 2: Gray backing Layer 3: Clear mastic Layer 4: White concrete	Misc.	-	SF	Under carpet	Layer 1: ND Layer 2: ND Layer 3: ND Layer 4: ND	No	256

Sample #	Building Name	Building #	Sample Location	Material	Material Description/color	Type	Quantity	Quantity Descriptor	Comments	Sample Results	ACM ?	Homogenous Material Location
SVF-16-A	Washington	0015	224	Sheet vinyl	Layer 1: Brown-tan-white small pebble sheet vinyl floor tile Layer 2: Gray backing Layer 3: White mastic	Misc.	-	SF	-	Layer 1: ND Layer 2: ND Layer 3: ND	No	220, 224
SVF-16-B	Washington	0015	224	Sheet vinyl	Layer 1: Brown-tan-white small pebble sheet vinyl floor tile Layer 2: Tan mastic Layer 3: Gray backing	Misc.	-	SF	-	Layer 1: ND Layer 2: ND Layer 3: ND	No	220, 224
SVF-17-A	**Washington**	**0015**	**G25**	**Sheet vinyl**	Layer 1: Tan-cream pebble pattern sheet vinyl floor tile (top) Layer 2: Tan mastic (top) Layer 3: Sheet vinyl (bottom) **Layer 4: Gray backing (bottom)**	**Misc.**	**25**	**SF**	**-**	Layer 1: ND Layer 2: ND Layer 3: ND **Layer 4: 43% CHR**	**Yes**	**G25**
CPTMY-01-A	Washington	0015	G1 elevator	Carpet mastic	Blue carpet with yellow mastic	Misc.	-	SF	-	ND	No	B5, Ground, 1st floor, 2nd floor
CPTMY-01-B	Washington	0015	B5	Carpet mastic	Multi-color carpet with yellow mastic	Misc.	-	SF	-	ND	No	B5, Ground, 1st floor, 2nd floor
CPTMY-02-A	Washington	0015	301E	Carpet mastic	Yellow soft carpet mastic	Misc.	-	SF	-	ND	No	3rd floor: offices, hallways, and under carpet
CPTMY-02-B	Washington	0015	337	Carpet mastic	Yellow soft carpet mastic	Misc.	-	SF	-	ND	No	3rd floor: offices, hallways, and under carpet
CPTMGR-01-A	Washington	0015	G100W hallway	Carpet mastic	Multi-color carpet with green carpet mastic	Misc.	-	SF	-	ND	No	G60 Eye Clinic
CPTMT-01-A	Washington	0015	G40	Carpet mastic	Tan carpet mastic	Misc.	-	SF	-	ND	No	G40 IT Suite
CPTMGRY-01-A	Washington	0015	@257	Carpet mastic	Gray soft carpet mastic	Misc.	-	SF	-	ND	No	200S hallway
RFSQMT-01-A	Washington	0015	G10 elevator	Floor square mastic	Tan soft mastic	Misc.	-	SF	Under floor squares	ND	No	G10 Elevator
FLGRY-01-A	Washington	0015	101 Elevator	Flooring mastic	Layer 1: Gray vinyl Layer 2: Black adhesive	Misc.	-	SF	-	Layer 1: ND Layer 2: ND	No	101 Elevator: NW. corner
THERMAL SYSTEMS INSULATION												
TSI-01-A	**Washington**	**0015**	**G100SS**	**Pipe insulation**	**Gray fibrous insulation with fabric**	**TSI**	**1,500/200**	**LF/EA**	**4-inch line**	**13% CHR/ 7% AMO**	**Yes**	**Domestic water lines: 4-inch runs and mudded/plaster elbows**
TSI-01-B	**Washington**	**0015**	**G100SS**	**Pipe insulation**	**Gray fibrous insulation with fabric**	**TSI**	**1,500/200**	**LF/EA**	**4-inch line**	**12% CHR/ 9% CHR**	**Yes**	**Domestic water lines: 4-inch runs and mudded/plaster elbows**
TSI-02-A	Washington	0015	G50	Pipe insulation	Gray chalky insulation	TSI	25	SF	South vessel	ND	No	Water pressure vessels: G50
TSI-02-B	Washington	0015	G50	Pipe insulation	Gray chalky insulation	TSI	25	SF	North vessel	ND	No	Water pressure vessels: G50

Sample #	Building Name	Building #	Sample Location	Material	Material Description/color	Type	Quantity	Quantity Descriptor	Comments	Sample Results	ACM ?	Homogenous Material Location
TSI-03-A	**Washington**	**0015**	**480SN**	**Pipe insulation**	**White chalky soft insulation**	**TSI**	**3**	**LF**	**Vertical line @ landing on stairs**	**34% CHR**	**Yes**	**480SN: stairs**
SFP-01-A	Washington	0015	301J across	Pipe insulation	Light gray insulation	TSI/Surf.	-	SF	Steel beams above ceiling	ND	No	3rd floor ceiling space
SFP01-B	Washington	0015	@ 345	Pipe insulation	Light gray insulation	TSI/Surf.	-	SF	Steel beams above ceiling	ND	No	3rd floor ceiling space
SFP-01-C	Washington	0015	397	Pipe insulation	Light gray insulation	TSI/Surf.	-	SF	Steel beams above ceiling	ND	No	3rd floor ceiling space
WALL FINISHES												
GWB-01-A	Washington	0015	104	Wallboard system	Layer 1: White joint compound Layer 2: White gypsum wallboard	Misc.	-	SF	-	Layer 1: ND Layer 2: ND	No	Dominant wall system throughout building
GWB-01-B	Washington	0015	@169A	Wallboard system	Layer 1: White joint compound Layer 2: White gypsum wallboard Layer 3: Brown mastic	Misc.	-	SF	-	Layer 1: ND Layer 2: ND Layer 3: ND	No	Dominant wall system throughout building
GWB-01-C	Washington	0015	100W@139	Wallboard system	Layer 1: White joint compound Layer 2: White gypsum wallboard	Misc.	-	SF	-	Layer 1: ND Layer 2: ND	No	Dominant wall system throughout building
GWB-01-D	Washington	0015	145	Wallboard system	Layer 1: White joint compound Layer 2: White gypsum wallboard	Misc.	-	SF	-	Layer 1: ND Layer 2: ND	No	Dominant wall system throughout building
GWB-01-E	Washington	0015	200VW corridor	Wallboard system	Layer 1: White joint compound Layer 2: White gypsum wallboard	Misc.	-	SF	-	Layer 1: ND Layer 2: ND	No	Dominant wall system throughout building
GWB-01-F	Washington	0015	@221	Wallboard system	Layer 1: White joint compound Layer 2: White gypsum wallboard	Misc.	-	SF	-	Layer 1: ND Layer 2: ND	No	Dominant wall system throughout building
GWB-01-G	Washington	0015	G60D	Wallboard system	Layer 1: White joint compound Layer 2: White gypsum wallboard Layer 3: White paint	Misc.	-	SF	-	Layer 1: ND Layer 2: ND Layer 3: ND	No	Dominant wall system throughout building
GWB-01-H	Washington	0015	@G12	Wallboard system	Layer 1: White joint compound Layer 2: White gypsum wallboard	Misc.	-	SF	-	Layer 1: ND Layer 2: ND	No	Dominant wall system throughout building
GWB-01-I	Washington	0015	@G12	Wallboard system	Layer 1: White joint compound Layer 2: White gypsum wallboard	Misc.	-	SF	-	Layer 1: ND Layer 2: ND	No	Dominant wall system throughout building
GWB-02-A	Washington	0015	397	Wallboard system	Layer 1: White joint compound Layer 2: White gypsum wallboard	Misc.	-	SF	-	Layer 1: ND Layer 2: ND	No	3rd floor
GWB-02-B	Washington	0015	300S hallway	Wallboard system	Layer 1: White joint compound Layer 2: White gypsum wallboard Layer 3: White paint	Misc.	-	SF	-	Layer 1: ND Layer 2: ND Layer 3: ND	No	3rd floor
PLAS-01-A	Washington	0015	G80 stairs	Plaster system	Layer 1: White plaster skim coat Layer 2: Gray scratch coat	Surf.	900	SF	-	Layer 1: ND Layer 2: ND	No	G80 stairs, G100SS, G80SS
PLAS-01-B	Washington	0015	G100SS stairs	Plaster system	Layer 1: White plaster skim coat Layer 2: Gray scratch coat Layer 3: Beige paint	Surf.	900	SF	Wire mesh base	Layer 1: ND Layer 2: ND Layer 3: ND	No	G80 stairs, G100SS, G80SS

Sample #	Building Name	Building #	Sample Location	Material	Material Description/color	Type	Quantity	Quantity Descriptor	Comments	Sample Results	ACM ?	Homogenous Material Location
PLAS-01-C	Washington	0015	G80SS stairs	Plaster system	Layer 1: White plaster skim coat Layer 2: Gray scratch coat	Surf.	900	SF	-	Layer 1: ND Layer 2: <1% ACT	No	G80 stairs, G100SS, G80SS
PLAS-02-A	**Washington**	**0015**	**G100 @G41D door**	**Plaster system**	**White plaster skim coat and gray scratch coat**	**Surf.**	**600**	**SF**	**Ceiling**	**17% CHR**	**Yes**	**G100 hallway ceiling**
PLAS-02-B	**Washington**	**0015**	**G100 @G24**	**Plaster system**	**White plaster skim coat and gray scratch coat**	**Surf.**	**600**	**SF**	**Ceiling**	**18% CHR**	**Yes**	**G100 hallway ceiling**
PLAS-02-C	Washington	0015	G100@doors to load dock	Plaster system	White plaster skim coat and gray scratch coat	Surf.	600	SF	**Samples PLAS-02-A, PLAS-02-B contain 17%-18% CHR**	ND	**Yes**	G100 hallway ceiling
PLAS-03-A	Washington	0015	G80SN	Plaster system	White plaster skim coat and gray scratch coat	Surf.	900	SF	-	ND	No	G80SN, 180SN, 280SN
PLAS-03-B	Washington	0015	180SN	Plaster system	White plaster skim coat and gray scratch coat	Surf.	900	SF	-	ND	No	G80SN, 180SN, 280SN
PLAS-03-C	Washington	0015	280SN	Plaster system	White plaster skim coat and gray scratch coat	Surf.	900	SF	-	ND	No	G80SN, 180SN, 280SN
4BRNCB-01-A	Washington	0015	301N	Cove base	Layer 1: 4-inch brown cove base Layer 2: Tan soft mastic Layer 3: White GWB with paint	Misc.	-	SF	-	Layer 1: ND Layer 2: ND Layer 3: ND	No	3rd floor
4BRNCB-01-B	Washington	0015	@350	Cove base	Layer 1: 4-inch brown cove base Layer 2: Tan soft mastic	Misc.	-	SF	-	Layer 1: ND Layer 2: ND	No	3rd floor
4TCB-01-A	Washington	0015	G100SW	Cove base	Layer 1: 4-inch tan cove base Layer 2: Brown-tan brittle mastic	Misc.	-	SF	-	Layer 1: ND Layer 2: ND	No	G80 stairs, G100 SW
4TCB-01-B	Washington	0015	G80 stairs	Cove base	Layer 1: 4-inch tan cove base Layer 2: Tan soft mastic	Misc.	-	SF	-	Layer 1: ND Layer 2: ND	No	G80 stairs, G100 SW
4BLCB-01-A	Washington	0015	G80VW	Cove base	Layer 1: 4-inch black cove base Layer 2: Tan mastic	Misc.	-	SF	-	Layer 1: ND Layer 2: ND	No	G80VW
4BLCB-01-B	Washington	0015	G80VW	Cove base	Layer 1: 4-inch black cove base Layer 2: Tan mastic	Misc.	-	SF	-	Layer 1: ND Layer 2: ND	No	G80VW
4DBRNCB-01-A	Washington	0015	G22	Cove base	Layer 1: 4-inch dark brown cove base Layer 2: Brown-tan brittle mastic	Misc.	-	SF	-	Layer 1: ND Layer 2: ND	No	G22, @169 Suite
4DBRNCB-01-B	Washington	0015	@169A	Cove base	Layer 1: 4-inch dark brown cove base Layer 2: Brown brittle mastic Layer 3: Tan soft mastic Layer 4: White GWB with paint	Misc.	-	SF	-	Layer 1: ND Layer 2: ND Layer 3: ND Layer 4: ND	No	G22, @169 Suite
4AQCB-01-A	Washington	0015	G100 ramp	Cove base	Layer 1: 4-inch aqua cove base Layer 2: Brown brittle mastic Layer 3: Tan soft mastic Layer 4: Clear mastic	Misc.	-	SF	-	Layer 1: ND Layer 2: ND Layer 3: ND Layer 4: ND	No	G100 ramp

Sample #	Building Name	Building #	Sample Location	Material	Material Description/color	Type	Quantity	Quantity Descriptor	Comments	Sample Results	ACM ?	Homogenous Material Location
6DBRNCB-01-A	Washington	0015	@141	Cove base	Layer 1: 6-inch dark brown cove base Layer 2: Brown mastic	Misc.	-	SF	-	Layer 1: ND Layer 2: ND	No	1st floor: SW. area
6DBRNCB-01-B	Washington	0015	@157	Cove base	Layer 1: 6-inch dark brown cove base Layer 2: Brown mastic	Misc.	-	SF	-	Layer 1: ND Layer 2: ND	No	1st floor: SW. area
6GRYCB-01-A	Washington	0015	@216E	Cove base	Layer 1: 6-inch gray cove base Layer 2: Tan mastic Layer 3: White GWB with paint	Misc.	-	SF	-	Layer 1: ND Layer 2: ND Layer 3: ND	No	2nd floor: north half (access center)
6GRYCB-01-B	Washington	0015	@221	Cove base	Layer 1: 6-inch gray cove base Layer 2: Brown brittle mastic	Misc.	-	SF	-	Layer 1: ND Layer 2: ND	No	2nd floor: north half (access center)
6WHCB-01-A	Washington	0015	104	Cove base	Layer 1: 6-inch white cove base Layer 2: Tan mastic Layer 3: White GWB with paint	Misc.	-	SF	-	Layer 1: ND Layer 2: ND Layer 3: ND	No	100N hallway and offices
6WHCB-01-B	Washington	0015	107	Cove base	Layer 1: 6-inch white cove base Layer 2: Tan mastic	Misc.	-	SF	-	Layer 1: ND Layer 2: ND	No	100N hallway and offices
6TCB-01-A	Washington	0015	B4	Cove base	Layer 1: 6-inch tan cove base Layer 2: Yellow mastic Layer 3: White GWB with paint	Misc.	-	SF	-	Layer 1: ND Layer 2: ND Layer 3: ND	No	Basement, 2nd floor (south hallway)
6TCB-01-B	Washington	0015	@253	Cove base	Layer 1: 6-inch tan cove base Layer 2: Brown mastic Layer 3: White mastic	Misc.	-	SF	-	Layer 1: ND Layer 2: ND Layer 3: ND	No	Basement, 2nd floor (south hallway)
MISCELLANEOUS FINISHES												
CAB-01-A	**Washington**	**0015**	**480SN**	**Cement Asbestos Board**	**Layer 1: Gray cement Layer 2: Black mastic**	**Misc.**	**75**	**LF**	**At edges of stairwell**	**Layer 1: 29% CHR Layer 2: 4% CHR**	**Yes**	**480SN stairwell, 401 south end**
VBBL-01-A	Washington	0015	G6A entrance	Vapor barrier	Layer 1: Gray concrete Layer 2: Black asphaltic coating	Misc.	-	SF	Upper wall before ramp	Layer 1: ND Layer 2: ND	No	G6A
DMGRY-01-A	Washington	0015	401 east end	Duct mastic	Gray rubbery mastic	Misc.	-	SF	Square ducting	ND	No	401 mechanical room
DMT-01-A	**Washington**	**0015**	**397**	**Duct mastic**	**Tan soft mastic**	**Misc.**	**250**	**SF**	**HVAC heat exchanger**	**3% CHR**	**Yes**	**3rd floor HVAC system**
SU-01-A	Washington	0015	G40C	Sink undercoat	Gray sink undercoat	Misc.	-	EA	-	ND	No	Ground, 1st, 2nd floors
SU-01-B	Washington	0015	173	Sink undercoat	Black sink undercoat	Misc.	-	EA	-	ND	No	Ground, 1st, 2nd floors
RF-01-A	Washington	0015	Roof: 2nd floor	Roofing	Layer 1: EPDM layer Layer 2: Silver paint Layer 3: Black asphaltic coating Layer 4: Brown perlite board Layer 5 Black asphaltic coating Layer 6: Yellow foam insulation Layer 7: Brown perlite board	Misc.	-	SF	Black vapor barrier below Layer 6	Layer 1: ND Layer 2: ND Layer 3: ND Layer 4: ND Layer 5: ND Layer 6: ND Layer 7: ND	No	Roof: 2nd floor SW

Sample #	Building Name	Building #	Sample Location	Material	Material Description/color	Type	Quantity	Quantity Descriptor	Comments	Sample Results	ACM ?	Homogenous Material Location
RF-02-A	Washington	0015	Roof: Penthouse south end	Roofing	Layer 1: EPDM layer Layer 2: Silver paint Layer 3: Black asphaltic coating Layer 4: Yellow foam insulation Layer 5: Black asphaltic coating Layer 6: Yellow foam insulation Layer 7: Black asphaltic coating Layer 8: Brown perlite board	Misc.	-	SF	Black vapor barrier below Layer 7	Layer 1: ND Layer 2: ND Layer 3: ND Layer 4: ND Layer 5: ND Layer 6: ND Layer 7: ND Layer 8: ND	No	Roof: Penthouse south end
RF-03-A	Washington	0015	Roof: Penthouse north end	Roofing	Layer 1: Silver paint Layer 2: Black asphaltic coating Layer 3: Brown loose fiber Layer 4: Brown perlite board Layer 5: Black asphaltic coating Layer 6: Yellow foam insulation Layer 7: Brown perlite board	Misc.	-	SF	Black vapor barrier below Layer 7	Layer 1: ND Layer 2: ND Layer 3: ND Layer 4: ND Layer 5: ND Layer 6: ND Layer 7: ND	No	Roof: Penthouse north end
PP-01-A	Washington	0015	Roof: Penthouse south end	Pipe penetration	Layer 1: Silver flexible coating Layer 2: Paint Layer 3: Metal	Misc.	-	EA	-	Layer 1: ND Layer 2: ND Layer 3: ND	No	Roof: Penthouse and 2nd level
PREVIOUS SAMPLING: E3RA, Inc. WSU HEALTH CARE FACILITY – February 3, 2005												
FD-01-1	Washington	0015	362	Fire door insulation	White chalky insulation	Misc.	-	EA	-	ND	No	Throughout building
Mag-01-1	Washington	0015	362	Block insulation	White hard block insulation	TSI	-	SF	2-inch pipe insulation	ND	No	362
Mag-01-2	Washington	0015	362	Block insulation	White hard block insulation	TSI	-	SF	2-inch pipe insulation	ND	No	362
Mag-01-3	Washington	0015	362	Block insulation	White hard block insulation	TSI	-	SF	2-inch pipe insulation	ND	No	362
AS-01-1	Washington	0015	360	Ceiling sheeting	Brown fibrous sheeting	Misc.	-	SF	-	ND	No	Throughout building
CB-01-1	Washington	0015	360	Cove base	Layer 1: 4-inch tan cove base Layer 2: Dark brown mastic	Misc.	-	SF	-	Layer 1: ND Layer 2: ND	No	Throughout building
CB-02-1	Washington	0015	360A	Cove base	Layer 1: 6-inch tan cove base Layer 2: Brown and tan mastic	Misc.	-	SF	-	Layer 1: ND Layer 2: ND	No	Throughout building
CB-03-1	Washington	0015	358	Cove base	Layer 1: 6-inch gray cove base Layer 2: Tan mastic	Misc.	-	SF	-	Layer 1: ND Layer 2: ND	No	Throughout building
CB-04-1	Washington	0015	357	Cove base	Layer 1: 4-inch gray cove base Layer 2: Tan and brown mastic	Misc.	-	SF	-	Layer 1: ND Layer 2: ND	No	Throughout building
CB-05-1	Washington	0015	340	Cove base	Layer 1: 6-inch dark brown cove base Layer 2: Dark tan mastic	Misc.	-	SF	-	Layer 1: ND Layer 2: ND	No	Throughout building
CFT-05-1	Washington	0015	314A	Ceramic tile	Layer 1: 4x4 tan speckled ceramic tile Layer 2: Gray grout	Misc.	-	SF	-	Layer 1: ND Layer 2: ND	No	Throughout building
CFT-06-1	Washington	0015	314A	Ceramic tile	Layer 1: 1x1 aqua blue ceramic tile Layer 2: Gray grout	Misc.	-	SF	-	Layer 1: ND Layer 2: ND	No	Throughout building

Sample #	Building Name	Building #	Sample Location	Material	Material Description/color	Type	Quantity	Quantity Descriptor	Comments	Sample Results	ACM ?	Homogenous Material Location
RF-01-1	Washington	0015	Pent. Level South: west edge	Roofing	Black asphaltic built-up roofing	Misc.	-	SF	-	ND	No	Penthouse level: South section
RF-01-2	Washington	0015	Pent. Level North: west edge	Roofing	Black asphaltic built-up roofing	Misc.	-	SF	-	ND	No	Penthouse level: North section
RF-01-3	Washington	0015	Pent. Level North: west edge	Roofing	Black asphaltic built-up roofing	Misc.	-	SF	-	ND	No	Penthouse level: North section
RF-02-1	Washington	0015	Pent. Level North: north edge	Roofing	Rolled asphaltic roofing with built-up roofing	Misc.	-	SF	-	ND	No	Penthouse level: North section
RF-02-2	Washington	0015	Pent. Level North: north edge	Roofing	Rolled asphaltic roofing with built-up roofing	Misc.	-	SF	-	ND	No	Penthouse level: North section
RF-02-3	Washington	0015	Pent. Level North: southeast corner	Roofing	Rolled asphaltic roofing with built-up roofing	Misc.	-	SF	-	ND	No	Penthouse level: North section
RFSeal-01-1	Washington	0015	Pent. Level South: center	Roofing	Gray roofing sealant on black asphaltic roofing	Misc.	-	SF	-	ND	No	Penthouse level: south section
RFSeal-02-1	**Washington**	**0015**	**Pent. Level north: south end**	**Roofing**	Layer 1: Silver paint **Layer 2: Black asphaltic sealant**	**Misc.**	**250**	**LF**	**HVAC unit sealant at base**	Layer 1: ND **Layer 2: 5% CHR**	**Yes**	**Penthouse level: north section**
RFSeal-03-1	Washington	0015	Pent. Level north: SE. corner	Roofing	Black roofing sealant on black asphaltic roofing	Misc.	-	SF	-	ND	No	Penthouse level: north section
Misc-01-1	**Washington**	**0015**	**480SN**	**Cement board**	**Layer 1: Gray cementitious board** **Layer 2: Black asphaltic mastic**	**Misc.**	**75**	**LF**	**-**	**Layer 1: 25% CHR** **Layer 2: 3% CHR**	**Yes**	**Penthouse stairs**
TSI-01-1	Washington	0015	G50	TSI	White hard mudded joint debris	TSI	-	SF	-	ND	No	G50 mechanical room
SI-01-1	Washington	0015	Ground: unexcav: Area NE.	Spray insulation	White-gray spray cellulose insulation	Surf.	-	SF	-	ND	No	Ground floor: unexcavated area
SI-01-2	Washington	0015	Ground: unexcav: Area NE.	Spray insulation	White-gray spray cellulose insulation	Surf.	-	SF	-	ND	No	Ground floor: unexcavated area
SI-01-3	Washington	0015	Ground: unexcav: Area N.	Spray insulation	White-gray spray cellulose insulation	Surf.	-	SF	-	ND	No	Ground floor: unexcavated area
PLAS-01-1	Washington	0015	G10A	Plaster system	Gray plaster with aggregate	Surf.	-	SF	-	ND	No	G10A
CB-06-1	Washington	0015	Unknown	Cove base	Layer 1: 4-inch dark brown cove base Layer 2: Brown mastic	Misc.	-	SF	-	Layer 1: ND Layer 2: ND	No	Throughout building
SU-01-1*	**Washington**	**0015**	**339**	**Sink undercoat**	**Black sink undercoat**	**Misc.**	**7**	**EA**	**Double sink**	**2% CHR**	**Yes**	**3rd floor**

Sample #	Building Name	Building #	Sample Location	Material	Material Description/color	Type	Quantity	Quantity Descriptor	Comments	Sample Results	ACM ?	Homogenous Material Location
SU-02-1	Washington	0015	340	Sink undercoat	Black sink undercoat	Misc.	-	EA	Single sink	ND	No	3rd floor
VAT-01-1	Washington	0015	118E	Floor tile	Layer 1: 12-inch white with tan speck Layer 2: Black mastic	Misc.	-	SF	-	Layer 1: ND Layer 2: ND	No	106, 118E
VFS-01-1	Washington	0015	100 hallway	Sheet vinyl	Layer 1: Gray-white-tan speck sheet vinyl Layer 2: Gray mastic	Misc.	-	SF	-	Layer 1: ND Layer 2: ND	No	117, 119
VAT-02-1*	**Washington**	**0015**	**120**	**Floor tile**	**Layer 1: 12-inch gray with white-gray streak Layer 2: Black mastic**	**Misc.**	**50**	**SF**	**-**	**Layer 1: ND Layer 2: 5% CHR**	**Yes**	**120**
CB-07-1	Washington	0015	100A	Cove base	Layer 1: 6-inch crimson cove base Layer 2: Dark brown mastic	Misc.	-	SF	-	Layer 1: ND Layer 2: ND	No	Throughout building
CFT-01-1	Washington	0015	356A	Ceramic tile	Layer 1: 1x1 tan-cream-off white ceramic tile Layer 2: Gray grout	Misc.	-	SF	-	Layer 1: ND Layer 2: ND	No	Throughout building
CFT-02-1	Washington	0015	356A	Ceramic tile	Layer 1: 4x4 tan speck ceramic tile Layer 2: White grout Layer 3: Gray mortar	Misc.	-	SF	-	Layer 1: ND Layer 2: ND Layer 3: ND	No	Throughout building
CFT-03-1	Washington	0015	Unknown	Ceramic tile	Layer 1: 1x1 tan-brown ceramic tile Layer 2: Gray grout	Misc.	-	SF	-	Layer 1: ND Layer 2: ND	No	Throughout building
CFT-04-1	Washington	0015	Unknown	Ceramic tile	Layer 1: 4x4 cream ceramic tile Layer 2: Tan mastic	Misc.	-	SF	-	Layer 1: ND Layer 2: ND	No	Throughout building
JC-01-1	Washington	0015	G10A	Joint compound	White joint compound	Misc.	-	SF	-	ND	No	Throughout building
PLAS-02-1*	Washington	0015	G1BA	Plaster system	Layer 1: White skim coat Layer 2: Gray scratch coat	Surf.	-	SF	-	Layer 1: ND Layer 2: ND	No	G1, G113
PLAS-02-2*	Washington	0015	G1	Plaster system	Layer 1: White skim coat Layer 2: Gray scratch coat	Surf.	-	SF	-	Layer 1: ND Layer 2: ND	No	G1, G113
PLAS-02-3*	Washington	0015	G9	Plaster system	Layer 1: White skim coat Layer 2: Gray scratch coat	Surf.	-	SF	-	Layer 1: ND Layer 2: < 1% TREM	No	G1, G113
PLAS-02-4*	Washington	0015	G23A	Plaster system	Layer 1: White skim coat Layer 2: Gray scratch coat	Surf.	-	SF	-	Layer 1: ND Layer 2: < 1% TREM	No	G1, G113
SP-01-1	Washington	0015	G9AE	Paint	Silver paint	Misc.	-	SF	-	ND	No	G9, G34
FB-01-1	Washington	0015	G9A	Fiberboard	Layer 1: Fiberboard Layer 2: Black mastic	Misc.	-	SF	-	Layer 1: ND Layer 2: ND	No	G9A
CFT-07-1	Washington	0015	G9A	Ceramic tile	Layer 1: 4x4 sea foam green ceramic tile Layer 2: White grout	Misc.	-	SF	-	Layer 1: ND Layer 2: ND	No	Throughout building
Misc-02-1	**Washington**	**0015**	**G32**	**Mastic**	**Dark brown mastic**	**Misc.**	**600**	**SF**	**Under wood panels**	**G27, G29, G30, G32**	**Yes**	**3% CHR**
PC-01-1	Washington	0015	B6	Wall compound	White penetration compound	Misc.	-	SF	-	ND	No	Throughout building

Sample #	Building Name	Building #	Sample Location	Material	Material Description/color	Type	Quantity	Quantity Descriptor	Comments	Sample Results	ACM ?	Homogenous Material Location
CFT-08-1	Washington	0015	268A	Ceramic tile	Layer 1: 1x1 white ceramic tile Layer 2: Gray grout	Misc.	-	SF	-	Layer 1: ND Layer 2: ND	No	268A
CFT-09-1	Washington	0015	268A	Ceramic tile	Layer 1: 4x4 gray and white ceramic tile Layer 2: White grout	Misc.	-	SF	-	Layer 1: ND Layer 2: ND	No	268A
VAT-03-1	Washington	0015	205	Floor tile	Layer 1: 12-inch white with black streak Layer 2: Black mastic	Misc.	-	SF	-	Layer 1: ND Layer 2: ND	No	205
GWB-01-1	Washington	0015	358	Wallboard system	Layer 1: White gypsum wallboard Layer 2: White joint compound	Misc.	-	SF	-	Layer 1: ND Layer 2: ND	No	Throughout building
GWB-01-2	Washington	0015	314	Wallboard system	Layer 1: White gypsum wallboard Layer 2: White joint compound	Misc.	-	SF	-	Layer 1: ND Layer 2: ND	No	Throughout building
GWB-01-3	Washington	0015	268	Wallboard system	Layer 1: White gypsum wallboard Layer 2: White joint compound	Misc.	-	SF	-	Layer 1: ND Layer 2: ND	No	Throughout building
GWB-01-4	Washington	0015	226A	Wallboard system	Layer 1: White gypsum wallboard Layer 2: White joint compound	Misc.	-	SF	-	Layer 1: ND Layer 2: ND	No	Throughout building
VFS-02-1	Washington	0015	272	Sheet vinyl	Layer 1: Tan with off-white speck sheet vinyl Layer 2: Beige mastic	Misc.	-	SF	-	Layer 1: ND Layer 2: ND	No	272
LC-01-1	Washington	0015	325	Concrete	White lightweight concrete	Misc.	-	SF	-	ND	No	319, 321, 325
VAT-04-1	Washington	0015	G19	Floor tile	Layer 1: 12-inch orange-maroon-white streak Layer 2: Tan mastic	Misc.	-	SF	-	Layer 1: ND Layer 2: ND	No	G19
VAT-05-1	Washington	0015	G21	Floor tile	Layer 1: 12-inch cream with brown and gray streak Layer 2: Tan and black mastic	Misc.	-	SF	-	Layer 1: ND Layer 2: ND	No	G21
VFS-03-1	**Washington**	**0015**	**G25**	**Sheet vinyl**	Layer 1: Tan and cream sheet vinyl Layer 2: Tan mastic Layer 3: Pebble pattern sheet vinyl **Layer 4: Tan mastic-backing**	**Misc.**	**25**	**SF**	**-**	Layer 1: ND Layer 2: ND Layer 3: ND **Layer 4: 45% CHR**	**Yes**	**G25**
VAT-06-1	Washington	0015	G100S	Floor tile	Layer 1: 12-inch light gray with gray and white Layer 2: Black mastic	Misc.	-	SF	-	Layer 1: ND Layer 2: ND	No	G100S, G28,G60H, G60L
PREVIOUS SAMPLING: Strata WSU Washington Building Pharmacy Relocation – November 21, 2011												
M11135A-GWB-1	Washington	0015	W. Office	GWB/JC	Layer 1: White gypsum wallboard Layer 2: White joint compound	Misc.	5,600	SF	-	Layer 1: ND Layer 2: ND	No	Throughout building
M11135A-GWB-2	Washington	0015	Central office	GWB/JC	Layer 1: White gypsum wallboard Layer 2: White joint compound	Misc.	5,600	SF	-	Layer 1: ND Layer 2: ND	No	Throughout building
M11135A-GWB-3	Washington	0015	Waiting area	GWB/JC	Layer 1: White gypsum wallboard Layer 2: White joint compound	Misc.	5,600	SF	-	Layer 1: ND Layer 2: ND	No	Throughout building
M11135A-CT-1	Washington	0015	W. Office	Ceiling tile	White suspended ceiling tile	Misc.	3,750	SF	-	ND	No	1st floor
M11135A-CT-2	Washington	0015	Central office	Ceiling tile	White suspended ceiling tile	Misc.	3,750	SF	-	ND	No	1st floor

Sample #	Building Name	Building #	Sample Location	Material	Material Description/color	Type	Quantity	Quantity Descriptor	Comments	Sample Results	ACM ?	Homogenous Material Location
M11135A-CT-3	Washington	0015	Waiting area	Ceiling tile	White suspended ceiling tile	Misc.	3,750	SF	-	ND	No	1st floor
M11135A-CT-4	Washington	0015	Central reception	Ceiling tile	White suspended ceiling tile	Misc.	3,750	SF	-	ND	No	1st floor
M11135A-CT-5	Washington	0015	Northern exam room	Ceiling tile	White suspended ceiling tile	Misc.	3,750	SF	-	ND	No	1st floor
M11135A-SV-1*	**Washington**	**0015**	**Western entrance**	**Sheet vinyl**	Layer 1: Tan terrazzo pattern sheet vinyl **Layer 2: Gray backing** Layer 3: White chalk	**Misc.**	**80**	**SF**	**-**	Layer 1: ND **Layer 2: 65% CHR** Layer 3: ND	**Yes**	**Western entrance**
M11135A-SV-2*	Washington	0015	Western entrance	**Sheet vinyl**	Layer 1: Tan terrazzo pattern sheet vinyl **Layer 2: Gray backing**	**Misc.**	**80**	**SF**	**-**	Layer 1: ND **Layer 2: 67% CHR**	**Yes**	**Western entrance**
M11135A-SV-3*	Washington	0015	Western entrance	**Sheet vinyl**	Layer 1: Tan terrazzo pattern sheet vinyl **Layer 2: Gray backing**	**Misc.**	**80**	**SF**	**-**	Layer 1: ND **Layer 2: 62% CHR**	**Yes**	**Western entrance**
M11135A-SV-B-1	Washington	0015	NW exam/MRI	Sheet vinyl	Layer 1: Tan mastic Layer 2: Gray terrazzo pattern sheet vinyl Layer 3: Gray backing	Misc.	400	SF	-	Layer 1: ND Layer 2: ND Layer 3: ND	No	NW exam/MRI
M11135A-SV-B-2	Washington	0015	NW exam/MRI	Sheet vinyl	Layer 1: Tan mastic Layer 2: Gray terrazzo pattern sheet vinyl Layer 3: Gray backing	Misc.	400	SF	-	Layer 1: ND Layer 2: ND Layer 3: ND	No	NW exam/MRI
M11135A-SV-B-3	Washington	0015	NW exam/MRI	Sheet vinyl	Layer 1: Tan mastic Layer 2: Gray terrazzo pattern sheet vinyl Layer 3: Gray backing Layer 4: Black mastic	Misc.	400	SF	-	Layer 1: ND Layer 2: ND Layer 3: ND Layer 4: ND	No	NW exam/MRI
M11135A-PP-1	Washington	0015	Western office	Pipe penetration putty	Off-white putty	Misc.	20	EA	-	ND	No	Western office
M11135A-SV-C-1	Washington	0015	North bathroom	Sheet vinyl	Layer 1: Gray speckled pattern sheet vinyl Layer 2: Gray backing	Misc.	400	SF	-	Layer 1: ND Layer 2: ND	No	North bathroom, north exam room
M11135A-SV-C-2	Washington	0015	North bathroom	Sheet vinyl	Layer 1: Gray speckled pattern sheet vinyl Layer 2: Gray backing	Misc.	400	SF	-	Layer 1: ND Layer 2: ND	No	North bathroom, north exam room
M11135A-SV-C-3	Washington	0015	North exam room	Sheet vinyl	Layer 1: Gray speckled pattern sheet vinyl Layer 2: Gray backing Layer 3: White chalk	Misc.	400	SF	-	Layer 1: ND Layer 2: ND	No	North bathroom, north exam room
M11135A-VCT-1*	**Washington**	**0015**	**Western office**	**Floor tile**	Layer 1: Beige vinyl floor tile Layer 2: Yellow mastic **Layer 3: Black mastic**	**Misc.**	**1,300**	**SF**	**-**	Layer 1: ND Layer 2: ND **Layer 3: 5% CHR**	**Yes**	**Western office, central office, central reception area**
M11135A-VCT-2*	**Washington**	**0015**	**Central office**	**Floor tile**	Layer 1: Beige vinyl floor tile Layer 2: Yellow mastic **Layer 3: Black mastic**	**Misc.**	**1,300**	**SF**	**-**	Layer 1: ND Layer 2: ND **Layer 3: 5% CHR**	**Yes**	**Western office, central office, central reception area**
M11135A-VCT-3*	**Washington**	**0015**	**Central reception area**	**Floor tile**	Layer 1: Beige vinyl floor tile Layer 2: Yellow mastic **Layer 3: Black mastic**	**Misc.**	**1,300**	**SF**	**-**	Layer 1: ND Layer 2: ND **Layer 3: 4% CHR**	**Yes**	**Western office, central office, central reception area**
M11135A-VCT-B-1	Washington	0015	Waiting area	Floor tile	Layer 1: Gray vinyl floor tile Layer 2: Yellow mastic	Misc.	330	SF	-	Layer 1: ND Layer 2: ND	No	Waiting area
M11135A-VCT-B-2	Washington	0015	Waiting area	Floor tile	Layer 1: Gray vinyl floor tile Layer 2: Yellow mastic	Misc.	330	SF	-	Layer 1: ND Layer 2: ND	No	Waiting area

Sample #	Building Name	Building #	Sample Location	Material	Material Description/color	Type	Quantity	Quantity Descriptor	Comments	Sample Results	ACM ?	Homogenous Material Location
M11135A-VCT-B-3	Washington	0015	Waiting area	Floor tile	Layer 1: Gray vinyl floor tile Layer 2: Yellow mastic	Misc.	330	SF	-	Layer 1: ND Layer 2: ND	No	Waiting area
M11135A-VCT-C-1	Washington	0015	Waiting area	Floor tile	Layer 1: Crimson vinyl floor tile Layer 2: Yellow mastic	Misc.	330	SF	-	Layer 1: ND Layer 2: ND	No	Waiting area
M11135A-VCT-C-2	Washington	0015	Waiting area	Floor tile	Layer 1: Crimson vinyl floor tile Layer 2: Yellow mastic	Misc.	330	SF	-	Layer 1: ND Layer 2: ND	No	Waiting area
M11135A-VCT-C-3	Washington	0015	Waiting area	Floor tile	Layer 1: Crimson vinyl floor tile Layer 2: Yellow mastic	Misc.	330	SF	-	Layer 1: ND Layer 2: ND	No	Waiting area
M11135A-VCT-D-1	Washington	0015	Eastern corridor	Floor tile	Layer 1: Crimson vinyl floor tile Layer 2: Yellow mastic	Misc.	270	SF	-	Layer 1: ND Layer 2: ND	No	Waiting area
M11135A-VCT-D-2	Washington	0015	Eastern corridor	Floor tile	Layer 1: Crimson vinyl floor tile Layer 2: Yellow mastic	Misc.	270	SF	-	Layer 1: ND Layer 2: ND	No	Waiting area
M11135A-VCT-D-3	Washington	0015	Eastern corridor	Floor tile	Layer 1: Crimson vinyl floor tile Layer 2: Yellow mastic	Misc.	270	SF	-	Layer 1: ND Layer 2: ND	No	Waiting area
M11135A-SC-1*	**Washington**	**0015**	**Exam rm. corridor**	**Leveling compound**	Layer 1: Tan mastic **Layer 2: Black mastic** Layer 3: Gray brittle concrete	**Misc.**	**50**	**SF**	**-**	Layer 1: ND **Layer 2: 4% CHR** Layer 3: ND	**Yes**	**Exam rm. corridor**
M11135A-SC-2*	**Washington**	**0015**	**Exam rm. corridor**	**Leveling compound**	Layer 1: Tan mastic **Layer 2: Black mastic** Layer 3: Gray brittle concrete	**Misc.**	**50**	**SF**	**-**	Layer 1: ND **Layer 2: 5% CHR** Layer 3: ND	**Yes**	**Exam rm. corridor**
M11135A-SC-3*	**Washington**	**0015**	**Exam rm. corridor**	**Leveling compound**	Layer 1: Tan mastic **Layer 2: Black mastic** Layer 3: Gray brittle concrete	**Misc.**	**50**	**SF**	**-**	Layer 1: ND **Layer 2: 5% CHR** Layer 3: ND	**Yes**	**Exam rm. corridor**
M11135A-CB-1	Washington	0015	Western office	Cove base system	Layer 1: 4-inch beige cove base Layer 2: Off-white mastic	Misc.	175	LF	-	Layer 1: ND Layer 2: ND	No	Western and central office, central reception
M11135A-CB-2	Washington	0015	Central office	Cove base system	Layer 1: 4-inch beige cove base Layer 2: Off-white mastic	Misc.	175	LF	-	Layer 1: ND Layer 2: ND	No	Western and central office, central reception
M11135A-CB-3	Washington	0015	Central reception	Cove base system	Layer 1: 4-inch beige cove base Layer 2: Off-white mastic	Misc.	175	LF	-	Layer 1: ND Layer 2: ND	No	Western and central office, central reception
M11135A-CB-B-1	Washington	0015	Eastern corridor	Cove base system	6-inch tan cove base with off-white mastic	Misc.	90	LF	-	ND	No	Eastern corridor
M11135A-CB-B-2	Washington	0015	Eastern corridor	Cove base system	Layer 1: 6-inch tan cove base Layer 2: Off-white mastic with paint	Misc.	90	LF	-	Layer 1: ND Layer 2: ND	No	Eastern corridor
M11135A-CB-B-3	Washington	0015	Eastern corridor	Cove base system	6-inch tan cove base with off-white mastic	Misc.	90	LF	-	ND	No	Eastern corridor
M11135A-CB-C-1	Washington	0015	Waiting area	Cove base system	Layer 1: 6-inch crimson cove base Layer 2: Off-white mastic Layer 3: Brown mastic Layer 4: Trace joint compound	Misc.	100	LF	-	Layer 1: ND Layer 2: ND Layer 3: ND Layer 4: ND	No	Waiting area
M11135A-CB-C-2	Washington	0015	Waiting area	Cove base system	Layer 1: 6-inch crimson cove base Layer 2: Off-white mastic Layer 3: Brown mastic Layer 4: Trace joint compound	Misc.	100	LF	-	Layer 1: ND Layer 2: ND Layer 3: ND Layer 4: ND	No	Waiting area

Sample #	Building Name	Building #	Sample Location	Material	Material Description/color	Type	Quantity	Quantity Descriptor	Comments	Sample Results	ACM ?	Homogenous Material Location
M11135A-CB-C-3	Washington	0015	Waiting area	Cove base system	Layer 1: 6-inch crimson cove base Layer 2: Off-white mastic Layer 3: Trace joint compound	Misc.	100	LF	-	Layer 1: ND Layer 2: ND Layer 3: ND	No	Waiting area
PREVIOUS SAMPLING: WSU EH&S Washington Building Remodel First Floor Suites March 7, 2014												
P01073	Washington	0015	124	Fireproofing	Tan spray-on fireproofing	Surf.	2,500	SF	-	ND	No	Throughout 1st floor
P01074	Washington	0015	120	Fireproofing	Tan spray-on fireproofing	Surf.	2,500	SF	-	ND	No	Throughout 1st floor
P01075	Washington	0015	133	Fireproofing	Tan spray-on fireproofing	Surf.	2,500	SF	-	ND	No	Throughout 1st floor
P01076	Washington	0015	100	Fireproofing	Tan spray-on fireproofing	Surf.	2,500	SF	-	ND	No	Throughout 1st floor
P01077*	**Washington**	**0015**	**120**	**Duct mastic**	**Tan duct mastic**	**Misc.**	**60**	**LF**	**Round ducts in ceiling**	**3% CHR**	**Yes**	**Throughout 1st floor**
P01078	Washington	0015	124	Wallboard system	Layer 1: White gypsum wallboard Layer 2: White joint compound	Misc.	1,500	SF	-	Layer 1: ND Layer 2: ND	No	Throughout building
P01079	Washington	0015	133	Wallboard system	Layer 1: White gypsum wallboard Layer 2: White joint compound	Misc.	1,500	SF	-	Layer 1: ND Layer 2: ND	No	Throughout building
P01080	Washington	0015	169	Wallboard system	Layer 1: White gypsum wallboard Layer 2: White joint compound	Misc.	1,500	SF	-	Layer 1: ND Layer 2: ND	No	Throughout building
PREVIOUS SAMPLING: WSU EH&S Washington Building Remodel Third Floor Suites May 30, 2014												
P01322	Washington	0015	300W	Sheet vinyl	Tan square dash pattern sheet vinyl	Misc.	900	SF	**Top layer of sheet vinyl**	ND	**Yes**	300W
P01323	Washington	0015	300W	Sheet vinyl	Layer 1: White-gray speckled sheet vinyl Layer 2: Yellow mastic	Misc.	1,500	SF	**Top layer of sheet vinyl**	Layer 1: ND Layer 2: ND	**Yes**	300W
P01324*	**Washington**	**0015**	**300W**	**Sheet vinyl**	**Layer 1: White-gray pebble pattern and backing** **Layer 2: Yellow mastic**	**Misc.**	**5,300**	**SF**	**Bottom layer of sheet vinyl**	**Layer 1: 17% CHR** **Layer 2: 2% CHR**	**Yes**	**300W**
P01325	Washington	0015	325A	Sink undercoat	Black sink undercoat	Misc.	1	EA	-	ND	No	3rd floor
P01326*	**Washington**	**0015**	**325**	**Sheet vinyl**	**Layer 1: Gray stone pattern sheet vinyl** **Layer 2: Yellow mastic and gray backing**	**Misc.**	**5,300**	**SF**	**Bottom layer of sheet vinyl**	**Layer 1: 18% CHR** **Layer 2: 2% CHR**	**Yes**	**325**
P01327	Washington	0015	325	Sheet vinyl	Layer 1: White-gray speckle sheet vinyl Layer 2: Off-white mastic	Misc.	5,300	SF	**Top layer of sheet vinyl**	Layer 1: ND Layer 2: ND	**Yes**	325
P01328*	**Washington**	**0015**	**319**	**Sheet vinyl**	Layer 1: Gray blotched sheet vinyl Layer 2: Off-white mastic Layer 3: Gray backing **Layer 4: Yellow mastic** **Layer 5: Leveling compound**	**Misc.**	**5,300**	**SF**	**-**	Layer 1: ND Layer 2: ND Layer 3: ND **Layer 4: 65% CHR** **Layer 5: 2% CHR**	**Yes**	**319**

Sample #	Building Name	Building #	Sample Location	Material	Material Description/color	Type	Quantity	Quantity Descriptor	Comments	Sample Results	ACM ?	Homogenous Material Location
P01329	Washington	0015	300W	Vapor barrier coating	Black asphaltic coating on concrete	Misc.	1,500	SF	-	ND	No	300W
P01330	Washington	0015	300W	Wallboard system	Layer 1: White gypsum wallboard Layer 2: White joint compound	Misc.	10,000	SF	-	Layer 1: ND Layer 2: ND	No	Throughout building
P01331	Washington	0015	300W	Wallboard system	Layer 1: White gypsum wallboard Layer 2: White joint compound	Misc.	10,000	SF	-	Layer 1: ND Layer 2: ND	No	Throughout building
P01332	Washington	0015	315A	Ceramic tile	Layer 1: White 4-inch ceramic tile Layer 2: Gray grout Layer 3: Yellow mastic	Misc.	50	SF	-	Layer 1: ND Layer 2: ND Layer 3: ND	No	315A
P01333	Washington	0015	345	Ceramic tile	Layer 1: Tan 3/4-inch ceramic tile Layer 2: Gray grout Layer 3: Yellow mastic	Misc.	30	SF	-	Layer 1: ND Layer 2: ND Layer 3: ND	No	345

Notes:
CHR = Chrysotile asbestos
AMO = Amosite asbestos
ACT = Actinolite asbestos
TREM = Tremolite
ND = Asbestos was not detected in sample
SF = Square feet
EA = Each
LF = Linear feet
Misc. = Miscellaneous material
Surf. = Surfacing material
TSI = Thermal systems insulation
ACM = Asbestos-containing material
Bold = Sample contains asbestos
***** **=** Asbestos-containing material was abated after renovations

APPENDIX C

Table Summary of Lead Paint Sampling

TABLE SUMMARY OF LEAD PAINT SAMPLING
WASHINGTON BUILDING

Sample #	Building Name	Building #	Sample Location (Room #)	Paint Color	Substrate	Component	Results(mg/kg)	Reporting limit (mg/kg)	Lead-containing
PB-01	Washington	0015	G10	White	Concrete	Wall	< 83	83	No
PB-02	**Washington**	**0015**	**East loading dock**	**White**	**Concrete**	**Canopy ceiling**	**200**	**47**	**Yes**
PB-03	Washington	0015	Exterior 401	White	Plaster	Wall	< 55	55	No
PB-04	Washington	0015	@ G70T	White	CMU	Wall	< 95	95	No

Results by EPA Method SW 846-3051 analysis are reported in mg/kg lead

APPENDIX D

Asbestos and Lead Chain-of-Custody Forms and Laboratory Analytical Results

June 4, 2021

Matt McKibbin
Washington State University EH&S
PO Box 641172
Pullman, WA 99164-1172

RE: Bulk Asbestos Fiber Analysis; NVL Batch # 2109580.00

Client Project: 2021-023138
Location: WASHINGTON BUILDING

Dear Mr. McKibbin,

Enclosed please find test results for the 45 sample(s) submitted to our laboratory for analysis on 5/27/2021.

Examination of these samples was conducted for the presence of identifiable asbestos fibers using polarized light microscopy (PLM) with dispersion staining in accordance with **U. S. EPA 40 CFR Appendix E to Subpart E of Part 763**, Interim Method for the Determination of Asbestos in Bulk Insulation Samples and **EPA 600/R-93/116**, Method for the Determination of Asbestos in Bulk Building Materials.

For samples containing more than one separable layer of materials, the report will include findings for each layer (labeled Layer 1 and Layer 2, etc. for each individual layer). The asbestos concentration in the sample is determined by calibrated visual estimation.

For those samples with asbestos concentrations between 1 and 10 percent based on visual estimation, the EPA recommends a procedure known as point counting (NESHAPS, 40 CFR Part 61). Point counting is a statistically more accurate means of quantification for samples with low concentrations of asbestos.

The detection limit for the calibrated visual estimation is <1%, 400 point counts is 0.25% and 1000 point counts is 0.1%

Samples are archived for two weeks following analysis. Samples that are not retrieved by the client are discarded after two weeks.

Thank you for using our laboratory services. Please do not hesitate to call if there is anything further we can assist you with.

Sincerely,

Nick Ly, Technical Director

Lab Code: 102063-0

Enc.: Sample Results

Phone: 206 547.0100 | Fax: 206 634.1936 | Toll Free: 1.888.NVL.LABS (685.5227)
4708 Aurora Avenue North | Seattle, WA 98103-6516

Bulk Asbestos Fibers Analysis

By Polarized Light Microscopy

Client: Washington State University EH&S
Address: PO Box 641172
Pullman, WA 99164-1172

Attention: Mr. Matt McKibbin
Project Location: WASHINGTON BUILDING

Batch #: 2109580.00
Client Project #: 2021-023138
Date Received: 5/27/2021
Samples Received: 45
Samples Analyzed: 45
Method: EPA/600/R-93/116

Lab ID: 21064219 **Client Sample #: 12VFT-01-A**
Location: WASHINGTON BUILDING

Layer 1 of 2	**Description:** Tan brittle vinyl			
	Non-Fibrous Materials:	Other Fibrous Materials:	%	**Asbestos Type: %**
	Vinyl/Binder, Fine grains, Fine particles	None Detected	ND	**Chrysotile 5%**
Layer 2 of 2	**Description:** Black asphaltic mastic with debris			
	Non-Fibrous Materials:	Other Fibrous Materials:	%	**Asbestos Type: %**
	Asphalt/Binder, Debris, Fine particles	Cellulose	3%	**Chrysotile 7%**

Lab ID: 21064220 **Client Sample #: 12VFT-01-B**
Location: WASHINGTON BUILDING

Layer 1 of 2	**Description:** Tan brittle vinyl			
	Non-Fibrous Materials:	Other Fibrous Materials:	%	**Asbestos Type: %**
	Vinyl/Binder, Fine grains, Fine particles	None Detected	ND	**Chrysotile 4%**
Layer 2 of 2	**Description:** Black asphaltic mastic with debris			
	Non-Fibrous Materials:	Other Fibrous Materials:	%	**Asbestos Type: %**
	Asphalt/Binder, Debris, Fine particles	Cellulose	4%	**Chrysotile 7%**

Lab ID: 21064221 **Client Sample #: 12VFT-02-A**
Location: WASHINGTON BUILDING

Layer 1 of 3	**Description:** Brown crumbly vinyl			
	Non-Fibrous Materials:	Other Fibrous Materials:	%	**Asbestos Type: %**
	Vinyl/Binder, Fine grains, Fine particles	Synthetic fibers	8%	**None Detected ND**
Layer 2 of 3	**Description:** Light brown soft mastic			
	Non-Fibrous Materials:	Other Fibrous Materials:	%	**Asbestos Type: %**
	Mastic/Binder, Fine particles	None Detected	ND	**None Detected ND**

Sampled by: Client
Analyzed by: Michael Jenkins **Date:** 06/03/2021
Reviewed by: Nick Ly **Date:** 06/04/2021



Nick Ly, Technical Director

Note: If samples are not homogeneous, then subsamples of the components were analyzed separately. All bulk samples are analyzed using both EPA 600/R-93/116 and 600/M4-82-020 Methods with the following measurement uncertainties for the reported % Asbestos (1%=0-3%, 5%=1-9%, 10%=5-15%, 20%=10-30%, 50%=40-60%). This report relates only to the items tested. If sample was not collected by NVL personnel, then the accuracy of the results is limited by the methodology and acuity of the sample collector. This report shall not be reproduced except in full, without written approval of NVL Laboratories, Inc. It shall not be used to claim product endorsement by NVLAP or any other agency of the US Government

Bulk Asbestos Fibers Analysis

By Polarized Light Microscopy

Client: Washington State University EH&S
Address: PO Box 641172
Pullman, WA 99164-1172

Attention: Mr. Matt McKibbin
Project Location: WASHINGTON BUILDING

Batch #: 2109580.00
Client Project #: 2021-023138
Date Received: 5/27/2021
Samples Received: 45
Samples Analyzed: 45
Method: EPA/600/R-93/116

Layer 3 of 3 **Description:** Gray crumbly material

Non-Fibrous Materials:	Other Fibrous Materials:%	**Asbestos Type: %**
Binder/Filler, Fine grains, Fine particles	Cellulose 4%	**None Detected ND**

Lab ID: 21064222 **Client Sample #: 12VFT-03-A**

Location: WASHINGTON BUILDING

Comments: No mastic present.

Layer 1 of 1 **Description:** Off-white brittle vinyl with debris

Non-Fibrous Materials:	Other Fibrous Materials:%	**Asbestos Type: %**
Vinyl/Binder, Fine grains, Debris Fine particles	None Detected ND	**None Detected ND**

Lab ID: 21064223 **Client Sample #: 12VFT-03-B**

Location: WASHINGTON BUILDING

Comments: No mastic present.

Layer 1 of 1 **Description:** Off-white brittle vinyl with debris

Non-Fibrous Materials:	Other Fibrous Materials:%	**Asbestos Type: %**
Vinyl/Binder, Fine grains, Debris Fine particles	None Detected ND	**None Detected ND**

Lab ID: 21064224 **Client Sample #: 12VFT-04-A**

Location: WASHINGTON BUILDING

Layer 1 of 3 **Description:** Light yellow crumbly vinyl

Non-Fibrous Materials:	Other Fibrous Materials:%	**Asbestos Type: %**
Vinyl/Binder, Fine grains, Fine particles	None Detected ND	**Chrysotile 5%**

Layer 2 of 3 **Description:** Black asphaltic mastic

Non-Fibrous Materials:	Other Fibrous Materials:%	**Asbestos Type: %**
Asphalt/Binder, Fine particles	Cellulose 4%	**Chrysotile 8%**

Sampled by: Client
Analyzed by: Michael Jenkins **Date:** 06/03/2021
Reviewed by: Nick Ly **Date:** 06/04/2021

Nick Ly, Technical Director

Note: If samples are not homogeneous, then subsamples of the components were analyzed separately. All bulk samples are analyzed using both EPA 600/R-93/116 and 600/M4-82-020 Methods with the following measurement uncertainties for the reported % Asbestos (1%=0-3%, 5%=1-9%, 10%=5-15%, 20%=10-30%, 50%=40-60%). This report relates only to the items tested. If sample was not collected by NVL personnel, then the accuracy of the results is limited by the methodology and acuity of the sample collector. This report shall not be reproduced except in full, without written approval of NVL Laboratories, Inc. It shall not be used to claim product endorsement by NVLAP or any other agency of the US Government

Bulk Asbestos Fibers Analysis

By Polarized Light Microscopy

Client: Washington State University EH&S
Address: PO Box 641172
Pullman, WA 99164-1172

Attention: Mr. Matt McKibbin
Project Location: WASHINGTON BUILDING

Batch #: 2109580.00
Client Project #: 2021-023138
Date Received: 5/27/2021
Samples Received: 45
Samples Analyzed: 45
Method: EPA/600/R-93/116

Layer 3 of 3	**Description:** Gray crumbly sandy material			
	Non-Fibrous Materials:	Other Fibrous Materials:%		**Asbestos Type: %**
	Binder/Filler, Sand, Fine grains	Cellulose	3%	**None Detected ND**
	Fine particles			

Lab ID: 21064225 **Client Sample #: 12VFT-04-B**
Location: WASHINGTON BUILDING

Layer 1 of 2	**Description:** Light yellow crumbly vinyl			
	Non-Fibrous Materials:	Other Fibrous Materials:%		**Asbestos Type: %**
	Vinyl/Binder, Fine grains, Fine particles	None Detected	ND	**Chrysotile 5%**
Layer 2 of 2	**Description:** Black asphaltic mastic			
	Non-Fibrous Materials:	Other Fibrous Materials:%		**Asbestos Type: %**
	Asphalt/Binder, Fine particles	Cellulose	4%	**Chrysotile 7%**

Lab ID: 21064226 **Client Sample #: 12VFT-05-A**
Location: WASHINGTON BUILDING

Layer 1 of 2	**Description:** Tan crumbly vinyl			
	Non-Fibrous Materials:	Other Fibrous Materials:%		**Asbestos Type: %**
	Vinyl/Binder, Fine grains, Fine particles	None Detected	ND	**Chrysotile 7%**
Layer 2 of 2	**Description:** Black asphaltic mastic			
	Non-Fibrous Materials:	Other Fibrous Materials:%		**Asbestos Type: %**
	Asphalt/Binder, Fine particles	Cellulose	3%	**Chrysotile 9%**

Lab ID: 21064227 **Client Sample #: 12VFT-05-B**
Location: WASHINGTON BUILDING

Layer 1 of 3	**Description:** Tan crumbly vinyl			
	Non-Fibrous Materials:	Other Fibrous Materials:%		**Asbestos Type: %**
	Vinyl/Binder, Fine grains, Fine particles	None Detected	ND	**Chrysotile 7%**

Sampled by: Client
Analyzed by: Michael Jenkins **Date:** 06/03/2021
Reviewed by: Nick Ly **Date:** 06/04/2021

Nick Ly, Technical Director

Note: If samples are not homogeneous, then subsamples of the components were analyzed separately. All bulk samples are analyzed using both EPA 600/R-93/116 and 600/M4-82-020 Methods with the following measurement uncertainties for the reported % Asbestos (1%=0-3%, 5%=1-9%, 10%=5-15%, 20%=10-30%, 50%=40-60%). This report relates only to the items tested. If sample was not collected by NVL personnel, then the accuracy of the results is limited by the methodology and acuity of the sample collector. This report shall not be reproduced except in full, without written approval of NVL Laboratories, Inc. It shall not be used to claim product endorsement by NVLAP or any other agency of the US Government

Bulk Asbestos Fibers Analysis

By Polarized Light Microscopy

Client: Washington State University EH&S
Address: PO Box 641172
Pullman, WA 99164-1172

Attention: Mr. Matt McKibbin
Project Location: WASHINGTON BUILDING

Batch #: 2109580.00
Client Project #: 2021-023138
Date Received: 5/27/2021
Samples Received: 45
Samples Analyzed: 45
Method: EPA/600/R-93/116

Layer 2 of 3	**Description:** Black asphaltic mastic		
	Non-Fibrous Materials:	Other Fibrous Materials:%	**Asbestos Type: %**
	Asphalt/Binder, Fine particles	Cellulose 3%	**Chrysotile 9%**
Layer 3 of 3	**Description:** Light gray crumbly material		
	Non-Fibrous Materials:	Other Fibrous Materials:%	**Asbestos Type: %**
	Binder/Filler, Sand, Fine grains	Cellulose 2%	**None Detected ND**
	Fine particles		

Lab ID: 21064228 **Client Sample #: 12VFT-06-A**
Location: WASHINGTON BUILDING
Comments: Unsure of correct layer sequence.

Layer 1 of 3	**Description:** Light brown crumbly vinyl		
	Non-Fibrous Materials:	Other Fibrous Materials:%	**Asbestos Type: %**
	Vinyl/Binder, Fine grains, Fine particles	None Detected ND	**None Detected ND**
Layer 2 of 3	**Description:** Yellow soft mastic with debris		
	Non-Fibrous Materials:	Other Fibrous Materials:%	**Asbestos Type: %**
	Mastic/Binder, Debris, Fine particles	Synthetic fibers 3%	**None Detected ND**
		Cellulose 2%	
Layer 3 of 3	**Description:** Gray crumbly sandy material		
	Non-Fibrous Materials:	Other Fibrous Materials:%	**Asbestos Type: %**
	Binder/Filler, Sand, Fine particles	Cellulose 15%	**None Detected ND**
	Fine grains		

Lab ID: 21064229 **Client Sample #: 12VFT-06-B**
Location: WASHINGTON BUILDING

Sampled by: Client
Analyzed by: Michael Jenkins **Date:** 06/03/2021
Reviewed by: Nick Ly **Date:** 06/04/2021

Nick Ly, Technical Director

Note: If samples are not homogeneous, then subsamples of the components were analyzed separately. All bulk samples are analyzed using both EPA 600/R-93/116 and 600/M4-82-020 Methods with the following measurement uncertainties for the reported % Asbestos (1%=0-3%, 5%=1-9%, 10%=5-15%, 20%=10-30%, 50%=40-60%). This report relates only to the items tested. If sample was not collected by NVL personnel, then the accuracy of the results is limited by the methodology and acuity of the sample collector. This report shall not be reproduced except in full, without written approval of NVL Laboratories, Inc. It shall not be used to claim product endorsement by NVLAP or any other agency of the US Government

Bulk Asbestos Fibers Analysis

By Polarized Light Microscopy

Client: Washington State University EH&S
Address: PO Box 641172
Pullman, WA 99164-1172

Attention: Mr. Matt McKibbin
Project Location: WASHINGTON BUILDING

Batch #: 2109580.00
Client Project #: 2021-023138
Date Received: 5/27/2021
Samples Received: 45
Samples Analyzed: 45
Method: EPA/600/R-93/116

Layer 1 of 2	**Description:** Light brown crumbly vinyl		
	Non-Fibrous Materials:	Other Fibrous Materials:%	**Asbestos Type: %**
	Vinyl/Binder, Fine grains, Fine particles	Synthetic fibers 3%	**None Detected ND**
	Debris		
Layer 2 of 2	**Description:** Yellow brittle mastic		
	Non-Fibrous Materials:	Other Fibrous Materials:%	**Asbestos Type: %**
	Mastic/Binder, Fine particles	None Detected ND	**None Detected ND**

Lab ID: 21064230 **Client Sample #: 12VFT-07-A**
Location: WASHINGTON BUILDING

Layer 1 of 2	**Description:** Light brown crumbly vinyl		
	Non-Fibrous Materials:	Other Fibrous Materials:%	**Asbestos Type: %**
	Vinyl/Binder, Fine grains, Fine particles	None Detected ND	**None Detected ND**
Layer 2 of 2	**Description:** Yellow soft mastic		
	Non-Fibrous Materials:	Other Fibrous Materials:%	**Asbestos Type: %**
	Mastic/Binder, Fine particles, Debris	None Detected ND	**None Detected ND**

Lab ID: 21064231 **Client Sample #: 12VFT-07-B**
Location: WASHINGTON BUILDING

Layer 1 of 2	**Description:** Light brown crumbly vinyl		
	Non-Fibrous Materials:	Other Fibrous Materials:%	**Asbestos Type: %**
	Vinyl/Binder, Fine grains, Fine particles	None Detected ND	**None Detected ND**
Layer 2 of 2	**Description:** Yellow soft mastic		
	Non-Fibrous Materials:	Other Fibrous Materials:%	**Asbestos Type: %**
	Mastic/Binder, Fine particles, Debris	None Detected ND	**None Detected ND**

Lab ID: 21064232 **Client Sample #: 12VFT-08-A**
Location: WASHINGTON BUILDING

Sampled by: Client
Analyzed by: Michael Jenkins **Date:** 06/03/2021
Reviewed by: Nick Ly **Date:** 06/04/2021

Nick Ly, Technical Director

Note: If samples are not homogeneous, then subsamples of the components were analyzed separately. All bulk samples are analyzed using both EPA 600/R-93/116 and 600/M4-82-020 Methods with the following measurement uncertainties for the reported % Asbestos (1%=0-3%, 5%=1-9%, 10%=5-15%, 20%=10-30%, 50%=40-60%). This report relates only to the items tested. If sample was not collected by NVL personnel, then the accuracy of the results is limited by the methodology and acuity of the sample collector. This report shall not be reproduced except in full, without written approval of NVL Laboratories, Inc. It shall not be used to claim product endorsement by NVLAP or any other agency of the US Government

Bulk Asbestos Fibers Analysis

By Polarized Light Microscopy

Client: Washington State University EH&S
Address: PO Box 641172
Pullman, WA 99164-1172

Attention: Mr. Matt McKibbin
Project Location: WASHINGTON BUILDING

Batch #: 2109580.00
Client Project #: 2021-023138
Date Received: 5/27/2021
Samples Received: 45
Samples Analyzed: 45
Method: EPA/600/R-93/116

Layer 1 of 2	**Description:** Light brown crumbly vinyl			
	Non-Fibrous Materials:	Other Fibrous Materials:	%	**Asbestos Type: %**
	Vinyl/Binder, Fine grains, Fine particles	None Detected	ND	**None Detected ND**
Layer 2 of 2	**Description:** Yellow soft mastic			
	Non-Fibrous Materials:	Other Fibrous Materials:	%	**Asbestos Type: %**
	Mastic/Binder, Fine particles	None Detected	ND	**None Detected ND**

Lab ID: 21064233 **Client Sample #: 12VFT-08-B**
Location: WASHINGTON BUILDING

Layer 1 of 2	**Description:** Light brown crumbly vinyl			
	Non-Fibrous Materials:	Other Fibrous Materials:	%	**Asbestos Type: %**
	Vinyl/Binder, Fine grains, Fine particles	None Detected	ND	**None Detected ND**
Layer 2 of 2	**Description:** Yellow soft mastic			
	Non-Fibrous Materials:	Other Fibrous Materials:	%	**Asbestos Type: %**
	Mastic/Binder, Fine particles	None Detected	ND	**None Detected ND**

Lab ID: 21064234 **Client Sample #: 12VFT-09-A**
Location: WASHINGTON BUILDING

Layer 1 of 3	**Description:** Light gray crumbly vinyl			
	Non-Fibrous Materials:	Other Fibrous Materials:	%	**Asbestos Type: %**
	Vinyl/Binder, Fine grains, Fine particles	None Detected	ND	**None Detected ND**
	Debris			
Layer 2 of 3	**Description:** Light brown brittle mastic			
	Non-Fibrous Materials:	Other Fibrous Materials:	%	**Asbestos Type: %**
	Mastic/Binder, Fine particles	None Detected	ND	**None Detected ND**

Sampled by: Client
Analyzed by: Michael Jenkins **Date:** 06/03/2021
Reviewed by: Nick Ly **Date:** 06/04/2021

Nick Ly, Technical Director

Note: If samples are not homogeneous, then subsamples of the components were analyzed separately. All bulk samples are analyzed using both EPA 600/R-93/116 and 600/M4-82-020 Methods with the following measurement uncertainties for the reported % Asbestos (1%=0-3%, 5%=1-9%, 10%=5-15%, 20%=10-30%, 50%=40-60%). This report relates only to the items tested. If sample was not collected by NVL personnel, then the accuracy of the results is limited by the methodology and acuity of the sample collector. This report shall not be reproduced except in full, without written approval of NVL Laboratories, Inc. It shall not be used to claim product endorsement by NVLAP or any other agency of the US Government

Bulk Asbestos Fibers Analysis

By Polarized Light Microscopy

Client: Washington State University EH&S
Address: PO Box 641172
Pullman, WA 99164-1172

Attention: Mr. Matt McKibbin
Project Location: WASHINGTON BUILDING

Batch #: 2109580.00
Client Project #: 2021-023138
Date Received: 5/27/2021
Samples Received: 45
Samples Analyzed: 45
Method: EPA/600/R-93/116

Layer 3 of 3	**Description:** White brittle powdery material		
	Non-Fibrous Materials:	Other Fibrous Materials:%	**Asbestos Type: %**
	Binder/Filler, Gypsum particles, Fine particles	Cellulose 4%	**None Detected ND**

Lab ID: 21064235 **Client Sample #: 12VFT-09-B**

Location: WASHINGTON BUILDING

Layer 1 of 2	**Description:** Light gray crumbly vinyl with paint		
	Non-Fibrous Materials:	Other Fibrous Materials:%	**Asbestos Type: %**
	Vinyl/Binder, Fine grains, Fine particles	Synthetic fibers 2%	**None Detected ND**
	Debris, Paint		
Layer 2 of 2	**Description:** Light brown brittle mastic		
	Non-Fibrous Materials:	Other Fibrous Materials:%	**Asbestos Type: %**
	Mastic/Binder, Fine particles	None Detected ND	**None Detected ND**

Lab ID: 21064236 **Client Sample #: 12VFT-10-A**

Location: WASHINGTON BUILDING

Comments: Unsure of correct layer sequence.

Layer 1 of 4	**Description:** Orange brittle mastic		
	Non-Fibrous Materials:	Other Fibrous Materials:%	**Asbestos Type: %**
	Mastic/Binder, Fine particles	None Detected ND	**None Detected ND**
Layer 2 of 4	**Description:** Light gray brittle vinyl		
	Non-Fibrous Materials:	Other Fibrous Materials:%	**Asbestos Type: %**
	Vinyl/Binder, Fine grains, Fine particles	None Detected ND	**None Detected ND**
Layer 3 of 4	**Description:** Black asphaltic mastic		
	Non-Fibrous Materials:	Other Fibrous Materials:%	**Asbestos Type: %**
	Asphalt/Binder, Debris, Fine particles	Cellulose 10%	**None Detected ND**

Sampled by: Client
Analyzed by: Michael Jenkins **Date:** 06/03/2021
Reviewed by: Nick Ly **Date:** 06/04/2021

Nick Ly, Technical Director

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Attention: Mr. Matt McKibbin
Project Location: WASHINGTON BUILDING

Batch #: 2109580.00
Client Project #: 2021-023138
Date Received: 5/27/2021
Samples Received: 45
Samples Analyzed: 45
Method: EPA/600/R-93/116

Layer 4 of 4	**Description:** Brown crumbly material		
	Non-Fibrous Materials:	Other Fibrous Materials:%	**Asbestos Type: %**
	Binder/Filler, Sand, Fine grains	Cellulose 10%	**None Detected ND**

Lab ID: 21064237 **Client Sample #: 12VFT-11-A**
Location: WASHINGTON BUILDING

Layer 1 of 2	**Description:** Light gray crumbly vinyl with debris		
	Non-Fibrous Materials:	Other Fibrous Materials:%	**Asbestos Type: %**
	Vinyl/Binder, Fine grains, Fine particles	None Detected ND	**None Detected ND**
	Debris		
Layer 2 of 2	**Description:** Off-white soft mastic with debris		
	Non-Fibrous Materials:	Other Fibrous Materials:%	**Asbestos Type: %**
	Mastic/Binder, Debris, Fine particles	Synthetic fibers 4%	**None Detected ND**

Lab ID: 21064238 **Client Sample #: 12VFT-12-A**
Location: WASHINGTON BUILDING

Layer 1 of 3	**Description:** Clear soft adhesive with debris		
	Non-Fibrous Materials:	Other Fibrous Materials:%	**Asbestos Type: %**
	Adhesive/Binder, Debris, Fine particles	Synthetic fibers 4%	**None Detected ND**
Layer 2 of 3	**Description:** Light gray brittle vinyl		
	Non-Fibrous Materials:	Other Fibrous Materials:%	**Asbestos Type: %**
	Vinyl/Binder, Fine grains, Fine particles	None Detected ND	**Chrysotile 5%**
Layer 3 of 3	**Description:** Black asphaltic mastic		
	Non-Fibrous Materials:	Other Fibrous Materials:%	**Asbestos Type: %**
	Asphalt/Binder, Debris, Fine particles	Cellulose 7%	**Chrysotile 7%**

Lab ID: 21064239 **Client Sample #: 12VFT-12-B**
Location: WASHINGTON BUILDING

Sampled by: Client
Analyzed by: Michael Jenkins **Date:** 06/03/2021
Reviewed by: Nick Ly **Date:** 06/04/2021

Nick Ly, Technical Director

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Attention: Mr. Matt McKibbin
Project Location: WASHINGTON BUILDING

Batch #: 2109580.00
Client Project #: 2021-023138
Date Received: 5/27/2021
Samples Received: 45
Samples Analyzed: 45
Method: EPA/600/R-93/116

Layer 1 of 4	**Description:** Gray crumbly sandy material		
	Non-Fibrous Materials:	Other Fibrous Materials:%	**Asbestos Type: %**
	Binder/Filler, Sand, Fine particles	Cellulose 15%	**None Detected ND**
Layer 2 of 4	**Description:** Light brown soft mastic		
	Non-Fibrous Materials:	Other Fibrous Materials:%	**Asbestos Type: %**
	Mastic/Binder, Fine particles	None Detected ND	**None Detected ND**
Layer 3 of 4	**Description:** Light gray brittle vinyl		
	Non-Fibrous Materials:	Other Fibrous Materials:%	**Asbestos Type: %**
	Vinyl/Binder, Fine grains, Fine particles	None Detected ND	**Chrysotile 5%**
Layer 4 of 4	**Description:** Black asphaltic mastic		
	Non-Fibrous Materials:	Other Fibrous Materials:%	**Asbestos Type: %**
	Asphalt/Binder, Debris, Fine particles	Cellulose 4%	**Chrysotile 7%**

Lab ID: 21064240 **Client Sample #: 12VFT-12-C**
Location: WASHINGTON BUILDING

Layer 1 of 4	**Description:** Gray crumbly sandy material		
	Non-Fibrous Materials:	Other Fibrous Materials:%	**Asbestos Type: %**
	Binder/Filler, Sand, Fine particles	Cellulose 17%	**None Detected ND**
Layer 2 of 4	**Description:** Light brown soft mastic		
	Non-Fibrous Materials:	Other Fibrous Materials:%	**Asbestos Type: %**
	Mastic/Binder, Fine particles	None Detected ND	**None Detected ND**
Layer 3 of 4	**Description:** Light gray brittle vinyl		
	Non-Fibrous Materials:	Other Fibrous Materials:%	**Asbestos Type: %**
	Vinyl/Binder, Fine grains, Fine particles	None Detected ND	**Chrysotile 6%**

Sampled by: Client
Analyzed by: Michael Jenkins **Date:** 06/03/2021
Reviewed by: Nick Ly **Date:** 06/04/2021

Nick Ly, Technical Director

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Bulk Asbestos Fibers Analysis

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Attention: Mr. Matt McKibbin
Project Location: WASHINGTON BUILDING

Batch #: 2109580.00
Client Project #: 2021-023138
Date Received: 5/27/2021
Samples Received: 45
Samples Analyzed: 45
Method: EPA/600/R-93/116

Layer 4 of 4	**Description:** Black asphaltic mastic			
	Non-Fibrous Materials:	Other Fibrous Materials:%		**Asbestos Type: %**
	Asphalt/Binder, Debris, Fine particles	Cellulose	4%	**Chrysotile 6%**

Lab ID: 21064241 **Client Sample #: 12VFT-12-D**
Location: WASHINGTON BUILDING

Layer 1 of 3	**Description:** Clear soft adhesive with debris			
	Non-Fibrous Materials:	Other Fibrous Materials:%		**Asbestos Type: %**
	Adhesive/Binder, Fine particles, Debris	Cellulose	3%	**None Detected ND**
Layer 2 of 3	**Description:** Light gray brittle vinyl			
	Non-Fibrous Materials:	Other Fibrous Materials:%		**Asbestos Type: %**
	Vinyl/Binder, Fine grains, Fine particles	None Detected	ND	**Chrysotile 6%**
Layer 3 of 3	**Description:** Black asphaltic mastic			
	Non-Fibrous Materials:	Other Fibrous Materials:%		**Asbestos Type: %**
	Asphalt/Binder, Debris, Fine particles	Cellulose	5%	**Chrysotile 7%**

Lab ID: 21064242 **Client Sample #: 9VFT-01-A**
Location: WASHINGTON BUILDING

Layer 1 of 2	**Description:** Gray brittle vinyl			
	Non-Fibrous Materials:	Other Fibrous Materials:%		**Asbestos Type: %**
	Vinyl/Binder, Fine grains, Fine particles	Wollastonite	5%	**Chrysotile 12%**
Layer 2 of 2	**Description:** Black asphaltic mastic with debris			
	Non-Fibrous Materials:	Other Fibrous Materials:%		**Asbestos Type: %**
	Asphalt/Binder, Debris, Fine particles	Cellulose	5%	**None Detected ND**

Lab ID: 21064243 **Client Sample #: 9VFT-01-B**
Location: WASHINGTON BUILDING

Sampled by: Client
Analyzed by: Michael Jenkins **Date:** 06/03/2021
Reviewed by: Nick Ly **Date:** 06/04/2021

Nick Ly, Technical Director

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Bulk Asbestos Fibers Analysis

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Project Location: WASHINGTON BUILDING

Batch #: 2109580.00
Client Project #: 2021-023138
Date Received: 5/27/2021
Samples Received: 45
Samples Analyzed: 45
Method: EPA/600/R-93/116

Layer 1 of 2	**Description:** Gray brittle vinyl			
	Non-Fibrous Materials:	Other Fibrous Materials:	%	**Asbestos Type: %**
	Vinyl/Binder, Fine grains, Fine particles	Wollastonite	5%	**Chrysotile 13%**
Layer 2 of 2	**Description:** Black asphaltic mastic with debris			
	Non-Fibrous Materials:	Other Fibrous Materials:	%	**Asbestos Type: %**
	Asphalt/Binder, Debris, Fine particles	Cellulose	10%	**None Detected ND**

Lab ID: 21064244 **Client Sample #: SVF-01-A**
Location: WASHINGTON BUILDING

Layer 1 of 3	**Description:** Light brown soft vinyl			
	Non-Fibrous Materials:	Other Fibrous Materials:	%	**Asbestos Type: %**
	Vinyl/Binder, Fine particles	None Detected	ND	**None Detected ND**
Layer 2 of 3	**Description:** Gray fibrous backing			
	Non-Fibrous Materials:	Other Fibrous Materials:	%	**Asbestos Type: %**
	Binder/Filler, Fine particles	Cellulose	30%	**None Detected ND**
		Glass fibers	10%	
		Wollastonite	8%	
		Synthetic fibers	12%	
Layer 3 of 3	**Description:** Light brown soft mastic			
	Non-Fibrous Materials:	Other Fibrous Materials:	%	**Asbestos Type: %**
	Mastic/Binder, Fine particles	None Detected	ND	**None Detected ND**

Lab ID: 21064245 **Client Sample #: SVF-01-B**
Location: WASHINGTON BUILDING

Sampled by: Client
Analyzed by: Michael Jenkins **Date:** 06/03/2021
Reviewed by: Nick Ly **Date:** 06/04/2021



Nick Ly, Technical Director

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Batch #: 2109580.00
Client Project #: 2021-023138
Date Received: 5/27/2021
Samples Received: 45
Samples Analyzed: 45
Method: EPA/600/R-93/116

Layer 1 of 3	**Description:** Light brown soft vinyl			
	Non-Fibrous Materials:	Other Fibrous Materials:%		**Asbestos Type: %**
	Vinyl/Binder, Fine particles	None Detected	ND	**None Detected ND**
Layer 2 of 3	**Description:** Gray fibrous backing			
	Non-Fibrous Materials:	Other Fibrous Materials:%		**Asbestos Type: %**
	Binder/Filler, Fine particles	Cellulose	30%	**None Detected ND**
		Glass fibers	10%	
		Wollastonite	9%	
		Synthetic fibers	9%	
Layer 3 of 3	**Description:** Light brown soft mastic			
	Non-Fibrous Materials:	Other Fibrous Materials:%		**Asbestos Type: %**
	Mastic/Binder, Fine particles	None Detected	ND	**None Detected ND**

Lab ID: 21064246 **Client Sample #: SVF-02-A**
Location: WASHINGTON BUILDING

Layer 1 of 3	**Description:** Brown patterned sheet vinyl			
	Non-Fibrous Materials:	Other Fibrous Materials:%		**Asbestos Type: %**
	Vinyl/Binder, Synthetic foam	None Detected	ND	**None Detected ND**
Layer 2 of 3	**Description:** Gray fibrous backing with mastic			
	Non-Fibrous Materials:	Other Fibrous Materials:%		**Asbestos Type: %**
	Binder/Filler, Mastic/Binder, Fine particles	Cellulose	38%	**None Detected ND**
		Glass fibers	12%	
Layer 3 of 3	**Description:** Black asphaltic mastic			
	Non-Fibrous Materials:	Other Fibrous Materials:%		**Asbestos Type: %**
	Asphalt/Binder, Debris, Fine particles	Cellulose	5%	**None Detected ND**

Sampled by: Client
Analyzed by: Michael Jenkins **Date:** 06/03/2021
Reviewed by: Nick Ly **Date:** 06/04/2021

Nick Ly, Technical Director

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Attention: Mr. Matt McKibbin
Project Location: WASHINGTON BUILDING

Batch #: 2109580.00
Client Project #: 2021-023138
Date Received: 5/27/2021
Samples Received: 45
Samples Analyzed: 45
Method: EPA/600/R-93/116

Lab ID: 21064247 **Client Sample #: SVF-02-B**
Location: WASHINGTON BUILDING

Layer 1 of 2	**Description:** Brown patterned sheet vinyl		
	Non-Fibrous Materials:	Other Fibrous Materials:%	**Asbestos Type: %**
	Vinyl/Binder, Synthetic foam	None Detected ND	**None Detected ND**
Layer 2 of 2	**Description:** Gray fibrous backing with mastic and paint		
	Non-Fibrous Materials:	Other Fibrous Materials:%	**Asbestos Type: %**
	Binder/Filler, Mastic/Binder, Fine particles	Cellulose 42%	**None Detected ND**
	Paint	Glass fibers 12%	

Lab ID: 21064248 **Client Sample #: SVF-03-A**
Location: WASHINGTON BUILDING

Layer 1 of 3	**Description:** Gray patterned soft vinyl		
	Non-Fibrous Materials:	Other Fibrous Materials:%	**Asbestos Type: %**
	Vinyl/Binder, Fine particles, Debris	None Detected ND	**None Detected ND**
Layer 2 of 3	**Description:** Gray fibrous backing		
	Non-Fibrous Materials:	Other Fibrous Materials:%	**Asbestos Type: %**
	Binder/Filler, Fine particles	Cellulose 10%	**Chrysotile 45%**
Layer 3 of 3	**Description:** Light brown brittle mastic		
	Non-Fibrous Materials:	Other Fibrous Materials:%	**Asbestos Type: %**
	Mastic/Binder, Fine particles	None Detected ND	**None Detected ND**

Lab ID: 21064249 **Client Sample #: SVF-03-B**
Location: WASHINGTON BUILDING

Layer 1 of 3	**Description:** Gray patterned soft vinyl		
	Non-Fibrous Materials:	Other Fibrous Materials:%	**Asbestos Type: %**
	Vinyl/Binder, Fine particles, Debris	None Detected ND	**None Detected ND**

Sampled by: Client
Analyzed by: Michael Jenkins **Date:** 06/03/2021
Reviewed by: Nick Ly **Date:** 06/04/2021

Nick Ly, Technical Director

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Client Project #: 2021-023138
Date Received: 5/27/2021
Samples Received: 45
Samples Analyzed: 45
Method: EPA/600/R-93/116

Layer 2 of 3	**Description:** Gray fibrous backing			
	Non-Fibrous Materials:	Other Fibrous Materials:%		**Asbestos Type: %**
	Binder/Filler, Fine particles	Cellulose	12%	**Chrysotile 47%**
Layer 3 of 3	**Description:** Light brown brittle mastic			
	Non-Fibrous Materials:	Other Fibrous Materials:%		**Asbestos Type: %**
	Mastic/Binder, Fine particles	None Detected	ND	**None Detected ND**

Lab ID: 21064250 **Client Sample #: SVF-04-A**
Location: WASHINGTON BUILDING

Layer 1 of 3	**Description:** Light gray patterned soft vinyl			
	Non-Fibrous Materials:	Other Fibrous Materials:%		**Asbestos Type: %**
	Vinyl/Binder, Fine particles, Debris	None Detected	ND	**None Detected ND**
Layer 2 of 3	**Description:** Gray fibrous backing			
	Non-Fibrous Materials:	Other Fibrous Materials:%		**Asbestos Type: %**
	Binder/Filler, Fine particles	Cellulose	13%	**Chrysotile 45%**
Layer 3 of 3	**Description:** Light brown brittle mastic			
	Non-Fibrous Materials:	Other Fibrous Materials:%		**Asbestos Type: %**
	Mastic/Binder, Fine particles	None Detected	ND	**None Detected ND**

Lab ID: 21064251 **Client Sample #: SVF-04-B**
Location: WASHINGTON BUILDING

Layer 1 of 3	**Description:** Light gray patterned soft vinyl			
	Non-Fibrous Materials:	Other Fibrous Materials:%		**Asbestos Type: %**
	Vinyl/Binder, Fine particles, Debris	None Detected	ND	**None Detected ND**
Layer 2 of 3	**Description:** Gray fibrous backing			
	Non-Fibrous Materials:	Other Fibrous Materials:%		**Asbestos Type: %**
	Binder/Filler, Fine particles	Cellulose	11%	**Chrysotile 47%**

Sampled by: Client
Analyzed by: Michael Jenkins **Date:** 06/03/2021
Reviewed by: Nick Ly **Date:** 06/04/2021

Nick Ly, Technical Director

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Project Location: WASHINGTON BUILDING

Batch #: 2109580.00
Client Project #: 2021-023138
Date Received: 5/27/2021
Samples Received: 45
Samples Analyzed: 45
Method: EPA/600/R-93/116

Layer 3 of 3	**Description:** Light brown brittle mastic			
	Non-Fibrous Materials:	Other Fibrous Materials:%		**Asbestos Type: %**
	Mastic/Binder, Fine particles	None Detected	ND	**None Detected ND**

Lab ID: 21064252 **Client Sample #: SVF-05-A**
Location: WASHINGTON BUILDING

Layer 1 of 2	**Description:** Beige soft vinyl			
	Non-Fibrous Materials:	Other Fibrous Materials:%		**Asbestos Type: %**
	Vinyl/Binder, Fine particles	None Detected	ND	**None Detected ND**
Layer 2 of 2	**Description:** Light brown soft mastic with debris			
	Non-Fibrous Materials:	Other Fibrous Materials:%		**Asbestos Type: %**
	Mastic/Binder, Debris, Sand Fine particles, Paint	Cellulose	5%	**None Detected ND**

Lab ID: 21064253 **Client Sample #: SVF-05-B**
Location: WASHINGTON BUILDING

Layer 1 of 3	**Description:** Beige soft vinyl			
	Non-Fibrous Materials:	Other Fibrous Materials:%		**Asbestos Type: %**
	Vinyl/Binder, Fine particles	None Detected	ND	**None Detected ND**
Layer 2 of 3	**Description:** Light brown soft mastic			
	Non-Fibrous Materials:	Other Fibrous Materials:%		**Asbestos Type: %**
	Mastic/Binder, Fine particles	None Detected	ND	**None Detected ND**
Layer 3 of 3	**Description:** Gray crumbly sandy material			
	Non-Fibrous Materials:	Other Fibrous Materials:%		**Asbestos Type: %**
	Binder/Filler, Sand, Fine particles	Cellulose	15%	**None Detected ND**

Lab ID: 21064254 **Client Sample #: SVF-06-A**
Location: WASHINGTON BUILDING

Sampled by: Client
Analyzed by: Michael Jenkins **Date:** 06/03/2021
Reviewed by: Nick Ly **Date:** 06/04/2021

Nick Ly, Technical Director

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Project Location: WASHINGTON BUILDING

Batch #: 2109580.00
Client Project #: 2021-023138
Date Received: 5/27/2021
Samples Received: 45
Samples Analyzed: 45
Method: EPA/600/R-93/116

Layer 1 of 3	**Description:** Gray patterned soft vinyl			
	Non-Fibrous Materials:	Other Fibrous Materials:%		**Asbestos Type: %**
	Vinyl/Binder, Fine particles	None Detected	ND	**None Detected ND**
Layer 2 of 3	**Description:** Light brown fibrous backing			
	Non-Fibrous Materials:	Other Fibrous Materials:%		**Asbestos Type: %**
	Binder/Filler, Fine particles	Cellulose	36%	**None Detected ND**
		Synthetic fibers	12%	
		Glass fibers	5%	
		Wollastonite	6%	
Layer 3 of 3	**Description:** Light brown soft mastic			
	Non-Fibrous Materials:	Other Fibrous Materials:%		**Asbestos Type: %**
	Mastic/Binder, Debris, Fine particles	Cellulose	2%	**None Detected ND**

Lab ID: 21064255 **Client Sample #: SVF-07-A**
Location: WASHINGTON BUILDING

Layer 1 of 2	**Description:** Gray and brown patterned sheet vinyl			
	Non-Fibrous Materials:	Other Fibrous Materials:%		**Asbestos Type: %**
	Vinyl/Binder, Synthetic foam, Fine particles	Glass fibers	15%	**None Detected ND**
Layer 2 of 2	**Description:** White fibrous backing with mastic			
	Non-Fibrous Materials:	Other Fibrous Materials:%		**Asbestos Type: %**
	Binder/Filler, Mastic/Binder, Fine particles	Synthetic fibers	44%	**None Detected ND**

Lab ID: 21064256 **Client Sample #: SVF-08-A**
Location: WASHINGTON BUILDING

Sampled by: Client
Analyzed by: Michael Jenkins **Date:** 06/03/2021
Reviewed by: Nick Ly **Date:** 06/04/2021

Nick Ly, Technical Director

Note: If samples are not homogeneous, then subsamples of the components were analyzed separately. All bulk samples are analyzed using both EPA 600/R-93/116 and 600/M4-82-020 Methods with the following measurement uncertainties for the reported % Asbestos (1%=0-3%, 5%=1-9%, 10%=5-15%, 20%=10-30%, 50%=40-60%). This report relates only to the items tested. If sample was not collected by NVL personnel, then the accuracy of the results is limited by the methodology and acuity of the sample collector. This report shall not be reproduced except in full, without written approval of NVL Laboratories, Inc. It shall not be used to claim product endorsement by NVLAP or any other agency of the US Government

Bulk Asbestos Fibers Analysis

By Polarized Light Microscopy

Client: Washington State University EH&S
Address: PO Box 641172
Pullman, WA 99164-1172

Attention: Mr. Matt McKibbin
Project Location: WASHINGTON BUILDING

Batch #: 2109580.00
Client Project #: 2021-023138
Date Received: 5/27/2021
Samples Received: 45
Samples Analyzed: 45
Method: EPA/600/R-93/116

Layer 1 of 4	**Description:** Gray patterned soft vinyl		
	Non-Fibrous Materials:	Other Fibrous Materials:%	**Asbestos Type: %**
	Vinyl/Binder, Fine particles	None Detected ND	**None Detected ND**
Layer 2 of 4	**Description:** Light gray soft adhesive		
	Non-Fibrous Materials:	Other Fibrous Materials:%	**Asbestos Type: %**
	Adhesive/Binder, Fine particles	None Detected ND	**None Detected ND**
Layer 3 of 4	**Description:** Gray crumbly sandy material		
	Non-Fibrous Materials:	Other Fibrous Materials:%	**Asbestos Type: %**
	Binder/Filler, Sand, Fine particles	Cellulose 16%	**None Detected ND**
	Fine grains, Adhesive/Binder, Debris		
Layer 4 of 4	**Description:** White compacted powdery material		
	Non-Fibrous Materials:	Other Fibrous Materials:%	**Asbestos Type: %**
	Calcareous binder, Calcareous particles	None Detected ND	**None Detected ND**

Lab ID: 21064257 **Client Sample #: SVF-09-A**

Location: WASHINGTON BUILDING

Layer 1 of 4	**Description:** Gray patterned soft vinyl		
	Non-Fibrous Materials:	Other Fibrous Materials:%	**Asbestos Type: %**
	Vinyl/Binder, Fine particles	None Detected ND	**None Detected ND**
Layer 2 of 4	**Description:** Gray fibrous backing		
	Non-Fibrous Materials:	Other Fibrous Materials:%	**Asbestos Type: %**
	Binder/Filler, Fine particles	Cellulose 46%	**None Detected ND**
		Glass fibers 14%	
Layer 3 of 4	**Description:** Clear soft mastic		
	Non-Fibrous Materials:	Other Fibrous Materials:%	**Asbestos Type: %**
	Mastic/Binder, Fine particles	None Detected ND	**None Detected ND**

Sampled by: Client
Analyzed by: Michael Jenkins **Date:** 06/03/2021
Reviewed by: Nick Ly **Date:** 06/04/2021

Nick Ly, Technical Director

Note: If samples are not homogeneous, then subsamples of the components were analyzed separately. All bulk samples are analyzed using both EPA 600/R-93/116 and 600/M4-82-020 Methods with the following measurement uncertainties for the reported % Asbestos (1%=0-3%, 5%=1-9%, 10%=5-15%, 20%=10-30%, 50%=40-60%). This report relates only to the items tested. If sample was not collected by NVL personnel, then the accuracy of the results is limited by the methodology and acuity of the sample collector. This report shall not be reproduced except in full, without written approval of NVL Laboratories, Inc. It shall not be used to claim product endorsement by NVLAP or any other agency of the US Government

Bulk Asbestos Fibers Analysis

By Polarized Light Microscopy

Client: Washington State University EH&S
Address: PO Box 641172
Pullman, WA 99164-1172

Attention: Mr. Matt McKibbin
Project Location: WASHINGTON BUILDING

Batch #: 2109580.00
Client Project #: 2021-023138
Date Received: 5/27/2021
Samples Received: 45
Samples Analyzed: 45
Method: EPA/600/R-93/116

Layer 4 of 4	**Description:** Gray crumbly sandy material		
	Non-Fibrous Materials:	Other Fibrous Materials:%	**Asbestos Type: %**
	Binder/Filler, Sand, Fine grains	Cellulose 16%	**None Detected ND**
	Fine particles		

Lab ID: 21064258 **Client Sample #: SVF-10-A**
Location: WASHINGTON BUILDING

Layer 1 of 3	**Description:** Tan soft vinyl		
	Non-Fibrous Materials:	Other Fibrous Materials:%	**Asbestos Type: %**
	Vinyl/Binder, Fine particles	None Detected ND	**None Detected ND**
Layer 2 of 3	**Description:** Gray fibrous backing		
	Non-Fibrous Materials:	Other Fibrous Materials:%	**Asbestos Type: %**
	Binder/Filler, Fine particles	Cellulose 15%	**Chrysotile 48%**
Layer 3 of 3	**Description:** Light brown soft mastic		
	Non-Fibrous Materials:	Other Fibrous Materials:%	**Asbestos Type: %**
	Mastic/Binder, Fine particles, Debris	None Detected ND	**None Detected ND**

Lab ID: 21064259 **Client Sample #: SVF-11-A**
Location: WASHINGTON BUILDING

Layer 1 of 4	**Description:** Gray sheet vinyl		
	Non-Fibrous Materials:	Other Fibrous Materials:%	**Asbestos Type: %**
	Vinyl/Binder, Synthetic foam	Glass fibers 18%	**None Detected ND**
Layer 2 of 4	**Description:** Light brown soft adhesive		
	Non-Fibrous Materials:	Other Fibrous Materials:%	**Asbestos Type: %**
	Adhesive/Binder, Fine particles	None Detected ND	**None Detected ND**

Sampled by: Client
Analyzed by: Michael Jenkins **Date:** 06/03/2021
Reviewed by: Nick Ly **Date:** 06/04/2021

Nick Ly, Technical Director

Note: If samples are not homogeneous, then subsamples of the components were analyzed separately. All bulk samples are analyzed using both EPA 600/R-93/116 and 600/M4-82-020 Methods with the following measurement uncertainties for the reported % Asbestos (1%=0-3%, 5%=1-9%, 10%=5-15%, 20%=10-30%, 50%=40-60%). This report relates only to the items tested. If sample was not collected by NVL personnel, then the accuracy of the results is limited by the methodology and acuity of the sample collector. This report shall not be reproduced except in full, without written approval of NVL Laboratories, Inc. It shall not be used to claim product endorsement by NVLAP or any other agency of the US Government

Bulk Asbestos Fibers Analysis

By Polarized Light Microscopy

Client: Washington State University EH&S
Address: PO Box 641172
Pullman, WA 99164-1172

Attention: Mr. Matt McKibbin
Project Location: WASHINGTON BUILDING

Batch #: 2109580.00
Client Project #: 2021-023138
Date Received: 5/27/2021
Samples Received: 45
Samples Analyzed: 45
Method: EPA/600/R-93/116

Layer 3 of 4	**Description:** Black asphaltic mastic			
	Non-Fibrous Materials:	Other Fibrous Materials:%		**Asbestos Type: %**
	Asphalt/Binder, Fine particles	Cellulose	3%	**Chrysotile 5%**
Layer 4 of 4	**Description:** White brittle powdery material with debris			
	Non-Fibrous Materials:	Other Fibrous Materials:%		**Asbestos Type: %**
	Binder/Filler, Gypsum particles, Debris	Cellulose	10%	**None Detected ND**
	Fine particles	Glass fibers	3%	

Lab ID: 21064260 **Client Sample #: SVF-12-A**
Location: WASHINGTON BUILDING

Layer 1 of 4	**Description:** Tan soft vinyl			
	Non-Fibrous Materials:	Other Fibrous Materials:%		**Asbestos Type: %**
	Vinyl/Binder, Fine particles	None Detected	ND	**None Detected ND**
Layer 2 of 4	**Description:** Gray fibrous backing			
	Non-Fibrous Materials:	Other Fibrous Materials:%		**Asbestos Type: %**
	Binder/Filler, Fine particles	Cellulose	14%	**Chrysotile 46%**
Layer 3 of 4	**Description:** Light brown soft mastic			
	Non-Fibrous Materials:	Other Fibrous Materials:%		**Asbestos Type: %**
	Mastic/Binder, Fine particles	None Detected	ND	**None Detected ND**
Layer 4 of 4	**Description:** Black asphaltic mastic			
	Non-Fibrous Materials:	Other Fibrous Materials:%		**Asbestos Type: %**
	Asphalt/Binder, Fine particles	Cellulose	4%	**Chrysotile 8%**

Lab ID: 21064261 **Client Sample #: SVF-13-A**
Location: WASHINGTON BUILDING

Sampled by: Client
Analyzed by: Michael Jenkins **Date:** 06/03/2021
Reviewed by: Nick Ly **Date:** 06/04/2021

Nick Ly, Technical Director

Note: If samples are not homogeneous, then subsamples of the components were analyzed separately. All bulk samples are analyzed using both EPA 600/R-93/116 and 600/M4-82-020 Methods with the following measurement uncertainties for the reported % Asbestos (1%=0-3%, 5%=1-9%, 10%=5-15%, 20%=10-30%, 50%=40-60%). This report relates only to the items tested. If sample was not collected by NVL personnel, then the accuracy of the results is limited by the methodology and acuity of the sample collector. This report shall not be reproduced except in full, without written approval of NVL Laboratories, Inc. It shall not be used to claim product endorsement by NVLAP or any other agency of the US Government

Bulk Asbestos Fibers Analysis

By Polarized Light Microscopy

Client: Washington State University EH&S
Address: PO Box 641172
Pullman, WA 99164-1172

Attention: Mr. Matt McKibbin
Project Location: WASHINGTON BUILDING

Batch #: 2109580.00
Client Project #: 2021-023138
Date Received: 5/27/2021
Samples Received: 45
Samples Analyzed: 45
Method: EPA/600/R-93/116

Layer 1 of 4	**Description:** Tan soft vinyl			
	Non-Fibrous Materials:	Other Fibrous Materials:%		**Asbestos Type: %**
	Vinyl/Binder, Fine particles	None Detected	ND	**None Detected ND**
Layer 2 of 4	**Description:** Gray fibrous backing			
	Non-Fibrous Materials:	Other Fibrous Materials:%		**Asbestos Type: %**
	Binder/Filler, Fine particles	Cellulose	12%	**Chrysotile 45%**
Layer 3 of 4	**Description:** Light brown brittle mastic			
	Non-Fibrous Materials:	Other Fibrous Materials:%		**Asbestos Type: %**
	Mastic/Binder, Fine particles	None Detected	ND	**None Detected ND**
Layer 4 of 4	**Description:** White brittle powdery material			
	Non-Fibrous Materials:	Other Fibrous Materials:%		**Asbestos Type: %**
	Binder/Filler, Fine particles, Debris	Cellulose	4%	**None Detected ND**

Lab ID: 21064262 **Client Sample #: SVF-14-A**
Location: WASHINGTON BUILDING

Layer 1 of 3	**Description:** Tan soft vinyl			
	Non-Fibrous Materials:	Other Fibrous Materials:%		**Asbestos Type: %**
	Vinyl/Binder, Fine particles	None Detected	ND	**None Detected ND**
Layer 2 of 3	**Description:** Gray fibrous backing			
	Non-Fibrous Materials:	Other Fibrous Materials:%		**Asbestos Type: %**
	Binder/Filler, Fine particles	Cellulose	14%	**Chrysotile 46%**
Layer 3 of 3	**Description:** Light brown brittle mastic			
	Non-Fibrous Materials:	Other Fibrous Materials:%		**Asbestos Type: %**
	Mastic/Binder, Fine particles	None Detected	ND	**None Detected ND**

Lab ID: 21064263 **Client Sample #: SVF-15-A**
Location: WASHINGTON BUILDING

Sampled by: Client
Analyzed by: Michael Jenkins **Date:** 06/03/2021
Reviewed by: Nick Ly **Date:** 06/04/2021

Nick Ly, Technical Director

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Bulk Asbestos Fibers Analysis

By Polarized Light Microscopy

Client: Washington State University EH&S
Address: PO Box 641172
Pullman, WA 99164-1172

Attention: Mr. Matt McKibbin
Project Location: WASHINGTON BUILDING

Batch #: 2109580.00
Client Project #: 2021-023138
Date Received: 5/27/2021
Samples Received: 45
Samples Analyzed: 45
Method: EPA/600/R-93/116

Layer 1 of 4	**Description:** Clear soft adhesive			
	Non-Fibrous Materials:	Other Fibrous Materials:	%	**Asbestos Type: %**
	Adhesive/Binder, Fine particles, Debris	None Detected	ND	**None Detected ND**
Layer 2 of 4	**Description:** White and tan patterned soft vinyl			
	Non-Fibrous Materials:	Other Fibrous Materials:	%	**Asbestos Type: %**
	Vinyl/Binder, Fine particles	None Detected	ND	**None Detected ND**
Layer 3 of 4	**Description:** Gray fibrous backing			
	Non-Fibrous Materials:	Other Fibrous Materials:	%	**Asbestos Type: %**
	Binder/Filler, Fine particles	Cellulose	32%	**None Detected ND**
		Wollastonite	6%	
		Synthetic fibers	7%	
		Glass fibers	5%	
Layer 4 of 4	**Description:** White soft material			
	Non-Fibrous Materials:	Other Fibrous Materials:	%	**Asbestos Type: %**
	Mastic/Binder, Fine particles	None Detected	ND	**None Detected ND**

Sampled by: Client
Analyzed by: Michael Jenkins **Date:** 06/03/2021
Reviewed by: Nick Ly **Date:** 06/04/2021

Nick Ly, Technical Director

Note: If samples are not homogeneous, then subsamples of the components were analyzed separately. All bulk samples are analyzed using both EPA 600/R-93/116 and 600/M4-82-020 Methods with the following measurement uncertainties for the reported % Asbestos (1%=0-3%, 5%=1-9%, 10%=5-15%, 20%=10-30%, 50%=40-60%). This report relates only to the items tested. If sample was not collected by NVL personnel, then the accuracy of the results is limited by the methodology and acuity of the sample collector. This report shall not be reproduced except in full, without written approval of NVL Laboratories, Inc. It shall not be used to claim product endorsement by NVLAP or any other agency of the US Government

ASBESTOS LABORATORY SERVICES



Company Washington State University EH&S
Address PO Box 641172
Pullman, WA 99164-1172
Project Manager Mr. Matt McKibbin
Phone (509) 335-3041
Direct (509) 335-5311

NVL Batch Number **2109580.00**
TAT 5 Days **AH** No
Rush TAT
Due Date 6/4/2021 **Time** 9:45 AM
Email mrmckibbin@wsu.edu
Fax (509) 730-5548

Project Name/Number: 2021-023138 **Project Location:** WASHINGTON BUILDING

Subcategory PLM Bulk
Item Code ASB-02 EPA 600/R-93-116 Asbestos by PLM <bulk>

Total Number of Samples 45 Rush Samples

	Lab ID	Sample ID	Description	A/R
1	21064219	12VFT-01-A		A
2	21064220	12VFT-01-B		A
3	21064221	12VFT-02-A		A
4	21064222	12VFT-03-A		A
5	21064223	12VFT-03-B		A
6	21064224	12VFT-04-A		A
7	21064225	12VFT-04-B		A
8	21064226	12VFT-05-A		A
9	21064227	12VFT-05-B		A
10	21064228	12VFT-06-A		A
11	21064229	12VFT-06-B		A
12	21064230	12VFT-07-A		A
13	21064231	12VFT-07-B		A
14	21064232	12VFT-08-A		A
15	21064233	12VFT-08-B		A
16	21064234	12VFT-09-A		A
17	21064235	12VFT-09-B		A
18	21064236	12VFT-10-A		A

	Print Name	Signature	Company	Date	Time
Sampled by	Client				
Relinquished by	Federal Express				

Office Use Only	Print Name	Signature	Company	Date	Time
Received by	Kelly AuVu		NVL	5/27/21	945
Analyzed by	Michael Jenkins		NVL	6/3/21	
Results Called by					
☐ **Faxed** ☐ **Emailed**					

Special Instructions:

Date: 5/27/2021
Time: 11:53 AM
Entered By: Kelly AuVu



Company Washington State University EH&S
Address PO Box 641172
Pullman, WA 99164-1172
Project Manager Mr. Matt McKibbin
Phone (509) 335-3041
Direct (509) 335-5311

NVL Batch Number **2109580.00**
TAT 5 Days **AH** No
Rush TAT
Due Date 6/4/2021 **Time** 9:45 AM
Email mrmckibbin@wsu.edu
Fax (509) 730-5548

Project Name/Number: 2021-023138 **Project Location:** WASHINGTON BUILDING

Subcategory PLM Bulk
Item Code ASB-02 EPA 600/R-93-116 Asbestos by PLM <bulk>

Total Number of Samples 45 Rush Samples

	Lab ID	Sample ID	Description	A/R
19	21064237	12VFT-11-A		A
20	21064238	12VFT-12-A		A
21	21064239	12VFT-12-B		A
22	21064240	12VFT-12-C		A
23	21064241	12VFT-12-D		A
24	21064242	9VFT-01-A		A
25	21064243	9VFT-01-B		A
26	21064244	SVF-01-A		A
27	21064245	SVF-01-B		A
28	21064246	SVF-02-A		A
29	21064247	SVF-02-B		A
30	21064248	SVF-03-A		A
31	21064249	SVF-03-B		A
32	21064250	SVF-04-A		A
33	21064251	SVF-04-B		A
34	21064252	SVF-05-A		A
35	21064253	SVF-05-B		A
36	21064254	SVF-06-A		A

	Print Name	Signature	Company	Date	Time
Sampled by	Client				
Relinquished by	Federal Express				

Office Use Only	Print Name	Signature	Company	Date	Time
Received by	Kelly AuVu		NVL	5/27/21	945
Analyzed by	Michael Jenkins		NVL	6/3/21	
Results Called by					
☐ **Faxed** ☐ **Emailed**					

Special Instructions:

Date: 5/27/2021
Time: 11:53 AM
Entered By: Kelly AuVu

ASBESTOS LABORATORY SERVICES



Company	Washington State University EH&S	**NVL Batch Number**	**2109580.00**
Address	PO Box 641172	**TAT**	5 Days **AH** No
	Pullman, WA 99164-1172	**Rush TAT**	
Project Manager	Mr. Matt McKibbin	**Due Date**	6/4/2021 **Time** 9:45 AM
Phone	(509) 335-3041	**Email**	mrmckibbin@wsu.edu
Direct	(509) 335-5311	**Fax**	(509) 730-5548

Project Name/Number: 2021-023138 **Project Location:** WASHINGTON BUILDING

Subcategory PLM Bulk

Item Code ASB-02 EPA 600/R-93-116 Asbestos by PLM <bulk>

Total Number of Samples 45 Rush Samples

	Lab ID	Sample ID	Description	A/R
37	21064255	SVF-07-A		A
38	21064256	SVF-08-A		A
39	21064257	SVF-09-A		A
40	21064258	SVF-10-A		A
41	21064259	SVF-11-A		A
42	21064260	SVF-12-A		A
43	21064261	SVF-13-A		A
44	21064262	SVF-14-A		A
45	21064263	SVF-15-A		A

	Print Name	Signature	Company	Date	Time
Sampled by	Client				
Relinquished by	Federal Express				

Office Use Only	Print Name	Signature	Company	Date	Time
Received by	Kelly AuVu		NVL	5/27/21	945
Analyzed by	Michael Jenkins		NVL	6/3/21	
Results Called by					
☐ **Faxed** ☐ **Emailed**					

Special Instructions:

Date: 5/27/2021
Time: 11:53 AM
Entered By: Kelly AuVu

2109580

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ASBESTOS CHAIN OF CUSTODY

Turn Around Time
- ☐ 1 Hour
- ☐ 2 Hours
- ☐ 4 Hours
- ☐ 24 Hours
- ☐ 2 Days
- ☐ 3 Days
- ☐ 4 Days
- ☑ 5 Days
- ☐ 10 Days

Please call for TAT less than 24 Hours

Company: Washington St. University EH&S
Address: PO Box 641172
Pullman, WA 99164
Phone: 509-335-5604

Project Manager: Matt McKibbin
Cell: (509) 730 - 5548
Email: mrmckibbin@wsu.edu stephan.gilley@wsu.edu
Fax: ( ) -

Project Name/Number: 2021-023138
Project Location: WASHINGTON BUILDING

- ☐ PCM Air (NIOSH 7400)
- ☑ PLM (EPA 600/R-93-116)
- ☐ PLM Gravimetry (600/R-93-116)
- ☐ Asbestos Friable/Non-Friable (EPA 600/R-93/116)
- ☐ TEM (NIOSH 7402)
- ☐ EPA 400 Points (600/R-93-116)
- ☐ Asbestos in Vermiculite (EPA 600/R-04/004)
- ☐ TEM (AHERA)
- ☐ Other
- ☐ TEM (EPA Level II Modified)
- ☐ EPA 1000Points (600/R-93-116)
- ☐ Asbestos in Sediment (EPA 1900 Points)

Reporting Instructions: email
☐ Call ( ) -
☐ Fax ( ) -
☐ Email mrmckibbin@wsu.edu stephan.gilley@wsu.edu

Total Number of Samples 24

	Sample ID	Description	A/R
1	12VFT-01-A	12-inch CREAM w/ BRN,GRY STR./ tan+blk mastic	
2	12VFT-01-B	12-inch CREAM w/ BRN,GRY STR./ tan+blk mastic	
3	12VFT-02-A	12-inch ORANGE w/ BURG,WH STR./ tan mastic	
4	12VFT-03-A	12-inch WH+LGRY w/ GRY STR/ clear mastic	
5	12VFT-03-B	12-inch WH+LGRY w/ GRY STR/ clear mastic	
6	12VFT-04-A	12-inch YELL. w/ WH+BRN STR/ black mastic	
7	12VFT-04-B	12-inch YELL. w/ WH+BRN STR/ black mastic	
8	12VFT-05-A	12-inch TAN w/ BRN STR/ black mastic	
9	12VFT-05-B	12-inch TAN w/ BRN STR/ black mastic	
10	12VFT-06-A	12-inch LPINK w/ BRN+WH STR/ yellow mastic	
11	12VFT-06-B	12-inch LPINK w/ BRN+WH STR/ yellow mastic	
12	12VFT-07-A	12-inch LBRN w/ TAN+BRN SPK/ yellow mastic	
13	12VFT-07-B	12-inch LBRN w/ TAN+BRN SPK/ yellow mastic	
14	12VFT-08-A	12-inch LPINK w/ WH+ORANGE STR/ yellow mastic	
15	12VFT-08-B	12-inch LPINK w/ WH+ORANGE STR/ yellow mastic	

	Print Name	Signature	Company	Date	Time
Sampled by	Stephan Gilley		WSU EH&S	5-19-2021	15:30
Relinquish by	Stephan Gilley		WSU EH&S	5-26-2021	11:30

Office Use Only

	Print Name	Signature	Company	Date	Time
Received by	[illegible]	[illegible]	NVL	5/27/2021	945 Fax
Analyzed by					
Called by					
Faxed/Email by					

2109580

INVL LABS
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ASBESTOS CHAIN OF CUSTODY

Turn Around Time
- ☐ 1 Hour
- ☐ 2 Hours
- ☐ 4 Hours
- ☐ 24 Hours
- ☐ 2 Days
- ☐ 3 Days
- ☐ 4 Days
- ☑ 5 Days
- ☐ 10 Days

Please call for TAT less than 24 Hours

Company: Washington St. University EH&S
Address: PO Box 641172
Pullman, WA 99164
Phone: 509-335-5604

Project Manager: Matt McKibbin
Cell: (509) 730 - 5548
Email: mrmckibbin@wsu.edu, stephan.gilley@wsu.edu
Fax: ( ) -

Project Name/Number: 2021-023138
Project Location: WASHINGTON BUILDING

- ☐ PCM Air (NIOSH 7400)
- ☑ PLM (EPA 600/R-93-116)
- ☐ PLM Gravimetry (600/R-93-116)
- ☐ Asbestos Friable/Non-Friable (EPA 600/R-93/116)
- ☐ TEM (NIOSH 7402)
- ☐ EPA 400 Points (600/R-93-116)
- ☐ Asbestos in Vermiculite (EPA 600/R-04/004)
- ☐ TEM (AHERA)
- ☐ Other
- ☐ TEM (EPA Level II Modified)
- ☐ EPA 1000Points (600/R-93-116)
- ☐ Asbestos in Sediment (EPA 1900 Points)

Reporting Instructions: email
☐ Call ( ) - ☐ Fax ( ) - ☐ Email: mrmckibbin@wsu.edu stephan.gilley@wsu.edu

Total Number of Samples 124

	Sample ID	Description	A/R
1	12VFT-09-A	12-inch WHITE w/ BLACK STR./ yellow mastic	
2	12VFT-09-B	12-inch WHITE w/ BLACK STR./ yellow mastic	
3	12VFT-10-A	12-inch LGRY w/ DGRY+WH STR./ black mastic	
4	12VFT-11-A	12-inch BEIGE+TAN w/ LBRN FLECK/ yellow mastic	
5	12VFT-12-A	12-inch YELLOW+WH w/ black mastic	
6	12VFT-12-B	12-inch YELLOW+WH w/ black mastic	
7	12VFT-12-C	12-inch YELLOW+WH w/ black mastic	
8	12VFT-12-D	12-inch YELLOW+WH w/ black mastic	
9	9VFT-01-A	9-inch OLIVE w/ WH+BLACK STR/ black mastic	
10	9VFT-01-B	9-inch OLIVE w/ WH+BLACK STR/ black mastic	
11	SVF-01-A	LPINK PEBB PATTw/ tan mastic/ paper	
12	SVF-01-B	LPINK PEBB PATT w/ tan+brown mastic/ paper	
13	SVF-02-A	LPINK w/ tan+brn SPK/ tan mastic/ paper	
14	SVF-02-B	LPINK w/ tan+brn SPK/ yellow mastic/ paper	
15	SVF-03-A	BRN+GRY+WH PEBB PATT/ yellow mastic/ gray paper	

	Print Name	Signature	Company	Date	Time
Sampled by	Stephan Gilley		WSU EH&S	5-19-2021	15:30
Relinquish by	Stephan Gilley		WSU EH&S	5-26-2021	11:30

Office Use Only

	Print Name	Signature	Company	Date	Time
Received by	Kellyfelly	e	NVL	5/27/2021	945 FedEx
Analyzed by					
Called by					
Faxed/Email by					

2109580

NVL LABS
INDUSTRIAL HYGIENE SERVICES
Laboratory | Management | Training

ASBESTOS CHAIN OF CUSTODY

Turn Around Time
- ☐ 1 Hour
- ☐ 2 Hours
- ☐ 4 Hours
- ☐ 24 Hours
- ☐ 2 Days
- ☐ 3 Days
- ☐ 4 Days
- ☑ 5 Days
- ☐ 10 Days

Please call for TAT less than 24 Hours

Company: Washington St. University EH&S
Address: PO Box 641172
Pullman, WA 99164
Phone: 509-335-5604

Project Manager: Matt McKibbin
Cell: (509) 730 - 5548
Email: mrmckibbin@wsu.edu, stephan.gilley@wsu.edu
Fax: ( ) -

Project Name/Number: 2021-023138
Project Location: WASHINGTON BUILDING

- ☐ PCM Air (NIOSH 7400)
- ☑ PLM (EPA 600/R-93-116)
- ☐ PLM Gravimetry (600/R-93-116)
- ☐ Asbestos Friable/Non-Friable (EPA 600/R-93/116)
- ☐ TEM (NIOSH 7402)
- ☐ EPA 400 Points (600/R-93-116)
- ☐ Asbestos in Vermiculite (EPA 600/R-04/004)
- ☐ TEM (AHERA)
- ☐ Other
- ☐ TEM (EPA Level II Modified)
- ☐ EPA 1000Points (600/R-93-116)
- ☐ Asbestos in Sediment (EPA 1900 Points)

Reporting Instructions: email
☐ Call ( ) -
☐ Fax ( ) -
☐ Email: mrmckibbin@wsu.edu stephan.gilley@wsu.edu

Total Number of Samples 24

	Sample ID	Description	A/R
1	SVF-03-B	BRN+GRY+WH PEBB PATT/ yellow mastic	
2	SVF-04-A	TAN+BEIGE SQU PATT/ yellow mastic/ paper	
3	SVF-04-B	TAN+BEIGE SQU PATT/ yellow mastic/ paper	
4	SVF-05-A	CREAM w/ WH+BRN SPK/ brown mastic/ paper	
5	SVF-05-B	CREAM w/ WH+BRN SPK/ brown mastic/ paper	
6	SVF-06-A	TAN SQU PATT/ brown mastic/ paper	
7	SVF-07-A	GRY+DBRN+WH SM PEBB PATT/ yellow mastic	
8	SVF-08-A	GRY+WH+TAN/ brown mastic/ paper	
9	SVF-09-A	GRY w/ WH+BRN+DGRY PEBB PATT/ tan mastic/ gray backing	
10	SVF-10-A	TAN+BRN+WH SQU PATT/ yellow mastic/ paper	
11	SVF-11-A	BRN+WH+GRY/ yellow+black mastic/ paper	
12	SVF-12-A	TAN+BEIGE PEBB PATT/ yellow+black mastic/ paper	
13	SVF-13A	TAN+BRN+WH PEBB PATT/ white backing/ paper	
14	SVF-14-A	BEIGE+BRN+TAN PEBB PATT/ gray backing	
15	SVF-15-A	WH+TAN SM PEBB PATT/ gray backing	

	Print Name	Signature	Company	Date	Time
Sampled by	Stephan Gilley		WSU EH&S	5-19-2021	15:30
Relinquish by	Stephan Gilley		WSU EH&S	5-26-2021	11:30

Office Use Only

	Print Name	Signature	Company	Date	Time
Received by	Kellyfuller		NVL	5/27/2021	9:45 leg
Analyzed by					
Called by					
Faxed/Email by					

WSU EH&S **Asbestos Sampling Data Sheet**

Building: WASHINGTON BUILD Inspector S. GILLEY Date MAY 2021

HSA	Material	Type (TSI, Surfacing, Misc.)	Estimated Quantity
12VFT-01	12-inch CREAM w/ brown + gray streaks w/ tan + Black mastic	MISC.	250 SF

Sample No.	Layering	Sample Location	Friable	Notes
A	Layer 1: 12 inch vinyl floor tile Layer 2: Tan + black mastic Layer 3:	G100 – South end	YES (NO)	
B	Layer 1: Layer 2: Layer 3:	G100 – South elev.	YES (NO)	
	Layer 1: Layer 2: Layer 3:		YES NO	
	Layer 1: Layer 2: Layer 3:		YES NO	
	Layer 1: Layer 2: Layer 3:		YES NO	
	Layer 1: Layer 2: Layer 3:		YES NO	
	Layer 1: Layer 2: Layer 3:		YES NO	

Locations G100 – South hallway + South elevator

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WSU EH&S **Asbestos Sampling Data Sheet**

Building: WASHINGTON BUILD Inspector S. GILLEY Date MAY 2021

HSA	Material	Type (TSI, Surfacing, Misc.)	Estimated Quantity
12VFT-02	12-inch ORANGE w/ burgundy + white streaks w/ tan mastic	MISC.	100 SF

Sample No.	Layering	Sample Location	Friable	Notes
A	Layer 1: 12-inch vinyl floor tile Layer 2: Tan mastic Layer 3:	G19	YES (NO)	
	Layer 1: Layer 2: Layer 3:		YES NO	
	Layer 1: Layer 2: Layer 3:		YES NO	
	Layer 1: Layer 2: Layer 3:		YES NO	
	Layer 1: Layer 2: Layer 3:		YES NO	
	Layer 1: Layer 2: Layer 3:		YES NO	
	Layer 1: Layer 2: Layer 3:		YES NO	

Locations G19

Attachment C: Washington Building Good Faith Hazardous Material Survey

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WSU EH&S **Asbestos Sampling Data Sheet**

Building: WASHINGTON BUILD Inspector S. GILLEY Date MAY 2021

HSA	Material	Type (TSI, Surfacing, Misc.)	Estimated Quantity
12VFT-03	12-inch WHITE + LIGHT GRAY w/ gray streak clear mastic	MISC.	400 SF

Sample No.	Layering	Sample Location	Friable	Notes
A	Layer 1: 12-inch vinyl floor tile Layer 2: clear mastic Layer 3:	118A	YES (NO)	
B	Layer 1: Layer 2: Layer 3:	118E	YES (NO)	
	Layer 1: Layer 2: Layer 3:		YES NO	
	Layer 1: Layer 2: Layer 3:		YES NO	
	Layer 1: Layer 2: Layer 3:		YES NO	
	Layer 1: Layer 2: Layer 3:		YES NO	
	Layer 1: Layer 2: Layer 3:		YES NO	

Locations 118A, 118E

Attachment C: Washington Building Good Faith Hazardous Material Survey

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WSU EH&S **Asbestos Sampling Data Sheet**

Building: WASHINGTON BUILD Inspector S. GILLEY Date MAY 2021

HSA	Material	Type (TSI, Surfacing, Misc.)	Estimated Quantity
12VFT-04	12 inch YELLOW w/ white + brown streaks black mastic	MISC.	4005F

Sample No.	Layering	Sample Location	Friable	Notes
A	Layer 1: 12 inch vinyl floor tile Layer 2: Black mastic Layer 3:	118 AA	YES NO	
B	Layer 1: Layer 2: Layer 3:	118 C	YES NO	
	Layer 1: Layer 2: Layer 3:		YES NO	
	Layer 1: Layer 2: Layer 3:		YES NO	
	Layer 1: Layer 2: Layer 3:		YES NO	
	Layer 1: Layer 2: Layer 3:		YES NO	
	Layer 1: Layer 2: Layer 3:		YES NO	

Locations 118 AA, 118 C

Attachment C: Washington Building Good Faith Hazardous Material Survey

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WSU EH&S **Asbestos Sampling Data Sheet**

Building: WASHINGTON BUILD Inspector S. GILLEY Date MAY 2021

HSA	Material	Type (TSI, Surfacing, Misc.)	Estimated Quantity
12VFT-05	12-inch TAN w/ brown streaks black mastic	MISC.	5,000 SF

Sample No.	Layering	Sample Location	Friable	Notes
A	Layer 1: 12-inch vinyl floor tile Layer 2: Black mastic Layer 3:	147	YES (NO)	
B	Layer 1: Layer 2: Layer 3:	280SN stair.	YES (NO)	
	Layer 1: Layer 2: Layer 3:		YES NO	
	Layer 1: Layer 2: Layer 3:		YES NO	
	Layer 1: Layer 2: Layer 3:		YES NO	
	Layer 1: Layer 2: Layer 3:		YES NO	
	Layer 1: Layer 2: Layer 3:		YES NO	

Locations 147, 100C, 100SE, 100SA/SB, 251, 261, 267, 280SN stair.

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WSU EH&S **Asbestos Sampling Data Sheet**

Building: WASHINGTON BUILD Inspector S. GILLEY Date MAY 2021

HSA	Material	Type (TSI, Surfacing, Misc.)	Estimated Quantity
12VFT-06	12-inch Light pink w brown + white streaks yellow mastic	misc	500 SF

Sample No.	Layering	Sample Location	Friable	Notes
A	Layer 1: 12-inch vinyl floor tile Layer 2: yellow mastic Layer 3:	200 SW. corridor	YES (NO)	
B	Layer 1: Layer 2: Layer 3:	200 SA	YES (NO)	
	Layer 1: Layer 2: Layer 3:		YES NO	
	Layer 1: Layer 2: Layer 3:		YES NO	
	Layer 1: Layer 2: Layer 3:		YES NO	
	Layer 1: Layer 2: Layer 3:		YES NO	
	Layer 1: Layer 2: Layer 3:		YES NO	

Locations 200 SW - corridor, 200 SA

Attachment C: Washington Building Good Faith Hazardous Material Survey

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WSU EH&S **Asbestos Sampling Data Sheet**

Building: WASHINGTON BUILD Inspector S. GILLEY Date MAY 2021

HSA	Material	Type (TSI, Surfacing, Misc.)	Estimated Quantity
12VFT-07	12-inch LIGHT BROWN w/ tan + brown specks yellow mastic	M15C	400SF

Sample No.	Layering	Sample Location	Friable	Notes
A	Layer 1: 12-inch vinyl floor tile Layer 2: yellow mastic Layer 3:	103A	YES (NO)	
B	Layer 1: Layer 2: Layer 3:	103 C	YES (NO)	
	Layer 1: Layer 2: Layer 3:		YES NO	
	Layer 1: Layer 2: Layer 3:		YES NO	
	Layer 1: Layer 2: Layer 3:		YES NO	
	Layer 1: Layer 2: Layer 3:		YES NO	
	Layer 1: Layer 2: Layer 3:		YES NO	

Locations 103A, 103B, 103C

Attachment C: Washington Building Good Faith Hazardous Material Survey

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WSU EH&S **Asbestos Sampling Data Sheet**

Building: WASHINGTON BUILD Inspector S. GILLEY Date MAY 2021

HSA	Material	Type (TSI, Surfacing, Misc.)	Estimated Quantity
12VFT-08	12-inch LIGHT PINK w/ white + orange streak yellow mastic	MISC	2,500 SF

Sample No.	Layering	Sample Location	Friable	Notes
A	Layer 1: 12-inch vinyl floor tile Layer 2: yellow mastic Layer 3:	104	YES (NO)	
B	Layer 1: Layer 2: Layer 3:	108	YES (NO)	
	Layer 1: Layer 2: Layer 3:		YES NO	
	Layer 1: Layer 2: Layer 3:		YES NO	
	Layer 1: Layer 2: Layer 3:		YES NO	
	Layer 1: Layer 2: Layer 3:		YES NO	
	Layer 1: Layer 2: Layer 3:		YES NO	

Locations 104, 105, 107-109, 111, 100N-hall.

Attachment C: Washington Building Good Faith Hazardous Material Survey

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WSU EH&S **Asbestos Sampling Data Sheet**

Building: WASHINGTON BUILD Inspector S. GILLEY Date MAY 2021

HSA	Material	Type (TSI, Surfacing, Misc.)	Estimated Quantity
FLVFT-09	12 inch White and black streak yellow mastic	MISC.	1000 SF

Sample No.	Layering	Sample Location	Friable	Notes
A	Layer 1: 12-inch vinyl floor tile Layer 2: yellow mastic Layer 3:	@ B6	YES (NO)	
B	Layer 1: Layer 2: Layer 3:	B80 @ stairs	YES (NO)	
	Layer 1: Layer 2: Layer 3:		YES NO	
	Layer 1: Layer 2: Layer 3:		YES NO	
	Layer 1: Layer 2: Layer 3:		YES NO	
	Layer 1: Layer 2: Layer 3:		YES NO	
	Layer 1: Layer 2: Layer 3:		YES NO	

Locations B80, B4

Attachment C: Washington Building Good Faith Hazardous Material Survey

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WSU EH&S **Asbestos Sampling Data Sheet**

Building: WASHINGTON BUILD Inspector S. GILLEY Date MAY 2021

HSA	Material	Type (TSI, Surfacing, Misc.)	Estimated Quantity
12VFT-10	12-inch LIGHT GRAY W/ dark gray + white streaks Black mastic	MISC.	75 SF

Sample No.	Layering	Sample Location	Friable	Notes
A	Layer 1: 12-inch vinyl floor tile Layer 2: Black mastic Layer 3:	G100 ramp	YES (NO)	
	Layer 1: Layer 2: Layer 3:		YES NO	
	Layer 1: Layer 2: Layer 3:		YES NO	
	Layer 1: Layer 2: Layer 3:		YES NO	
	Layer 1: Layer 2: Layer 3:		YES NO	
	Layer 1: Layer 2: Layer 3:		YES NO	
	Layer 1: Layer 2: Layer 3:		YES NO	

Locations G100 ramp

Attachment C: Washington Building Good Faith Hazardous Material Survey

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WSU EH&S **Asbestos Sampling Data Sheet**

Building: WASHINGTON BUILD Inspector S. GILLEY Date MAY 2021

HSA	Material	Type (TSI, Surfacing, Misc.)	Estimated Quantity
12VFT-11	12-inch BEIGE + TAN w light brown fleck yellow mastic	MISC.	500 SF

Sample No.	Layering	Sample Location	Friable	Notes
A	Layer 1: 12 inch vinyl floor tile Layer 2: yellow mastic Layer 3:	301 G	YES (NO)	
	Layer 1: Layer 2: Layer 3:		YES NO	
	Layer 1: Layer 2: Layer 3:		YES NO	
	Layer 1: Layer 2: Layer 3:		YES NO	
	Layer 1: Layer 2: Layer 3:		YES NO	
	Layer 1: Layer 2: Layer 3:		YES NO	
	Layer 1: Layer 2: Layer 3:		YES NO	

Locations 301 G, 361

Attachment C: Washington Building Good Faith Hazardous Material Survey

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WSU EH&S **Asbestos Sampling Data Sheet**

Building: WASHINGTON BUILD Inspector S. GILLEY Date MAY 2021

HSA	Material	Type (TSI, Surfacing, Misc.)	Estimated Quantity
12VFT-12	12-inch yellow-white VFT black mastic under carpet, SVF	MISC.	10,000 SF

Sample No.	Layering	Sample Location	Friable	Notes
A	Layer 1: 12-inch vinyl floor tile Layer 2: Black mastic Layer 3:	175	YES (NO)	under carpet
B	Layer 1: Layer 2: Layer 3:	243	YES (NO)	under SVF
C	Layer 1: Layer 2: Layer 3:	@ 257	YES (NO)	under carpet
D	Layer 1: Layer 2: Layer 3:	217	YES (NO)	under carpet
	Layer 1: Layer 2: Layer 3:		YES NO	
	Layer 1: Layer 2: Layer 3:		YES NO	
	Layer 1: Layer 2: Layer 3:		YES NO	

Locations 1st floor: offices, 2nd floor: North half

Attachment C: Washington Building Good Faith Hazardous Material Survey

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WSU EH&S **Asbestos Sampling Data Sheet**

Building: WASHINGTON BUILD Inspector S. GILLEY Date MAY 2021

HSA	Material	Type (TSI, Surfacing, Misc.)	Estimated Quantity
9VFT-01	9-inch OLIVE w/ white + black streak black mastic	MISC.	1,500 SF

Sample No.	Layering	Sample Location	Friable	Notes
A	Layer 1: 9-inch vinyl floor tile Layer 2: Black mastic Layer 3:	G100-N. end	YES (NO)	
B	Layer 1: Layer 2: Layer 3:	G100 e double doors to load. dock	YES (NO)	
	Layer 1: Layer 2: Layer 3:		YES NO	
	Layer 1: Layer 2: Layer 3:		YES NO	
	Layer 1: Layer 2: Layer 3:		YES NO	
	Layer 1: Layer 2: Layer 3:		YES NO	
	Layer 1: Layer 2: Layer 3:		YES NO	

Locations G100 Hallway

Attachment C: Washington Building Good Faith Hazardous Material Survey

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WSU EH&S

Asbestos Sampling Data Sheet

Building: WASHINGTON BUILD Inspector S. GILLEY Date MAY 2021

HSA	Material	Type (TSI, Surfacing, Misc.)	Estimated Quantity
SVF-01	Light Pink Pebble Pattern sheet vinyl flooring tan mastic / brn. mastic	MISC.	200 SF

Sample No.	Layering	Sample Location	Friable	Notes
A	Layer 1: Sheet vinyl Layer 2: Tan mastic Layer 3: paper	B1	(YES) NO	BT
B	Layer 1: Sheet vinyl Layer 2: Tan mastic Layer 3: Brown mastic	B2	(YES) NO	BT
	Layer 1: paper Layer 2: Layer 3:		YES NO	
	Layer 1: Layer 2: Layer 3:		YES NO	
	Layer 1: Layer 2: Layer 3:		YES NO	
	Layer 1: Layer 2: Layer 3:		YES NO	
	Layer 1: Layer 2: Layer 3:		YES NO	

Locations B1, B2

Attachment C: Washington Building Good Faith Hazardous Material Survey

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WSU EH&S

Asbestos Sampling Data Sheet

Building: WASHINGTON BUILD Inspector S. GILLEY Date MAY 2021

HSA	Material	Type (TSI, Surfacing, Misc.)	Estimated Quantity
SVF-02	Light Pink w/ brown + tan specks tan/ yellow mastic	MISC.	200 SF

Sample No.	Layering	Sample Location	Friable	Notes
A	Layer 1: sheet vinyl Layer 2: Tan mastic Layer 3: paper	G24	(YES) NO	BT
B	Layer 1: Sheet vinyl Layer 2: yellow mastic Layer 3: paper	G60F	(YES) NO	BT
	Layer 1: Layer 2: Layer 3:		YES NO	
	Layer 1: Layer 2: Layer 3:		YES NO	
	Layer 1: Layer 2: Layer 3:		YES NO	
	Layer 1: Layer 2: Layer 3:		YES NO	
	Layer 1: Layer 2: Layer 3:		YES NO	

Locations G24, G60F

Attachment C: Washington Building Good Faith Hazardous Material Survey

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WSU EH&S **Asbestos Sampling Data Sheet**

Building: WASHINGTON BUILD Inspector S. GILLEY Date MAY 2021

HSA	Material	Type (TSI, Surfacing, Misc.)	Estimated Quantity
SVF-03	Brown + Gray + White pebble pattern sheet vinyl flooring yellow mastic	MISC.	100 SF

Sample No.	Layering	Sample Location	Friable	Notes
A	Layer 1: sheet vinyl Layer 2: yellow mastic Layer 3: gray paper	118 B	(YES) NO	BT
B	Layer 1: Layer 2: Layer 3:	118 F	(YES) NO	BT
	Layer 1: Layer 2: Layer 3:		YES NO	
	Layer 1: Layer 2: Layer 3:		YES NO	
	Layer 1: Layer 2: Layer 3:		YES NO	
	Layer 1: Layer 2: Layer 3:		YES NO	
	Layer 1: Layer 2: Layer 3:		YES NO	

Locations 118 B, 118 F

Attachment C: Washington Building Good Faith Hazardous Material Survey

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WSU EH&S **Asbestos Sampling Data Sheet**

Building: WASHINGTON BUILD Inspector S. GILLEY Date MAY 2021

HSA	Material	Type (TSI, Surfacing, Misc.)	Estimated Quantity
SUF-04	Tan + Beige square pattern sheet vinyl flooring yellow mastic	MISC.	250 SF

Sample No.	Layering	Sample Location	Friable	Notes
A	Layer 1: sheet vinyl Layer 2: yellow mastic Layer 3: paper	180	(YES) NO	medical rm.
B	Layer 1: Layer 2: Layer 3:	138	(YES) NO	medical rm.
	Layer 1: Layer 2: Layer 3:		YES NO	
	Layer 1: Layer 2: Layer 3:		YES NO	
	Layer 1: Layer 2: Layer 3:		YES NO	
	Layer 1: Layer 2: Layer 3:		YES NO	
	Layer 1: Layer 2: Layer 3:		YES NO	

Locations 180, 138

Attachment C: Washington Building Good Faith Hazardous Material Survey

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WSU EH&S **Asbestos Sampling Data Sheet**

Building: WASHINGTON BUILD Inspector S. GILLEY Date MAY 2021

HSA	Material	Type (TSI, Surfacing, Misc.)	Estimated Quantity
SVF-05	Cream w/ white + brown specks brown mastic	MISC.	100 SF

Sample No.	Layering	Sample Location	Friable	Notes
A	Layer 1: Sheet Vinyl Layer 2: Brown mastic Layer 3: paper	110	(YES) NO	BT
B	Layer 1: Layer 2: Layer 3:	106 E	(YES) NO	BT
	Layer 1: Layer 2: Layer 3:		YES NO	
	Layer 1: Layer 2: Layer 3:		YES NO	
	Layer 1: Layer 2: Layer 3:		YES NO	
	Layer 1: Layer 2: Layer 3:		YES NO	
	Layer 1: Layer 2: Layer 3:		YES NO	

Locations 110, 106 E

Attachment C: Washington Building Good Faith Hazardous Material Survey

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WSU EH&S **Asbestos Sampling Data Sheet**

Building: WASHINGTON BUILD Inspector S. GILLEY Date MAY 2021

HSA	Material	Type (TSI, Surfacing, Misc.)	Estimated Quantity
SVF-06	Tan square pattern sheet vinyl flooring brown mastic	MISC.	50 SF

Sample No.	Layering	Sample Location	Friable	Notes
A	Layer 1: sheet vinyl Layer 2: brown mastic Layer 3: paper	B3A	(YES) NO	BT
	Layer 1: Layer 2: Layer 3:		YES NO	
	Layer 1: Layer 2: Layer 3:		YES NO	
	Layer 1: Layer 2: Layer 3:		YES NO	
	Layer 1: Layer 2: Layer 3:		YES NO	
	Layer 1: Layer 2: Layer 3:		YES NO	
	Layer 1: Layer 2: Layer 3:		YES NO	

Locations B3A

Attachment C: Washington Building Good Faith Hazardous Material Survey

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WSU EH&S **Asbestos Sampling Data Sheet**

Building: WASHINGTON BUILD Inspector S. GILLEY Date MAY 2021

HSA	Material	Type (TSI, Surfacing, Misc.)	Estimated Quantity
SUF-07	Gray + Dark Brown + White small pebble pattern sheet vinyl yellow mastic	MISC	125 SF

Sample No.	Layering	Sample Location	Friable	Notes
A	Layer 1: sheet vinyl Layer 2: yellow mastic Layer 3:	G60D	(YES) NO	office
	Layer 1: Layer 2: Layer 3:		YES NO	
	Layer 1: Layer 2: Layer 3:		YES NO	
	Layer 1: Layer 2: Layer 3:		YES NO	
	Layer 1: Layer 2: Layer 3:		YES NO	
	Layer 1: Layer 2: Layer 3:		YES NO	
	Layer 1: Layer 2: Layer 3:		YES NO	

Locations G60D

Attachment C: Washington Building Good Faith Hazardous Material Survey

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WSU EH&S

Asbestos Sampling Data Sheet

Building: WASHINGTON BUILD Inspector S. GILLEY Date MAY 2021

HSA	Material	Type (TSI, Surfacing, Misc.)	Estimated Quantity
SVF-08	Gray + white + Tan sheet vinyl brown mastic	MISC.	100 SF

Sample No.	Layering	Sample Location	Friable	Notes
A	Layer 1: sheet vinyl Layer 2: brown mastic Layer 3: paper	G40C	(YES) NO	KT
	Layer 1: Layer 2: Layer 3:		YES NO	
	Layer 1: Layer 2: Layer 3:		YES NO	
	Layer 1: Layer 2: Layer 3:		YES NO	
	Layer 1: Layer 2: Layer 3:		YES NO	
	Layer 1: Layer 2: Layer 3:		YES NO	
	Layer 1: Layer 2: Layer 3:		YES NO	

Locations G40C

Attachment C: Washington Building Good Faith Hazardous Material Survey

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WSU EH&S **Asbestos Sampling Data Sheet**

Building: WASHINGTON BUILD Inspector S. GILLEY Date MAY 2021

HSA	Material	Type (TSI, Surfacing, Misc.)	Estimated Quantity
SVF-09	Gray w/ white & brown & dark gray pebble pattern sheet vinyl tan mastic	MISC.	250 SF

Sample No.	Layering	Sample Location	Friable	Notes
A	Layer 1: sheet vinyl Layer 2: tan mastic Layer 3: gray backing	119	(YES) NO	MBT
	Layer 1: Layer 2: Layer 3:		YES NO	
	Layer 1: Layer 2: Layer 3:		YES NO	
	Layer 1: Layer 2: Layer 3:		YES NO	
	Layer 1: Layer 2: Layer 3:		YES NO	
	Layer 1: Layer 2: Layer 3:		YES NO	
	Layer 1: Layer 2: Layer 3:		YES NO	

Locations 117, 119

Attachment C: Washington Building Good Faith Hazardous Material Survey

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WSU EH&S **Asbestos Sampling Data Sheet**

Building: WASHINGTON BUILD Inspector S. GILLEY Date MAY 2021

HSA	Material	Type (TSI, Surfacing, Misc.)	Estimated Quantity
SVF-10	Tan + Brown + White Square pattern sheet vinyl yellow mastic	MISC.	25 SF

Sample No.	Layering	Sample Location	Friable	Notes
A	Layer 1: Sheet vinyl Layer 2: yellow mastic Layer 3: paper	137A	(YES) NO	BT
	Layer 1: Layer 2: Layer 3:		YES NO	
	Layer 1: Layer 2: Layer 3:		YES NO	
	Layer 1: Layer 2: Layer 3:		YES NO	
	Layer 1: Layer 2: Layer 3:		YES NO	
	Layer 1: Layer 2: Layer 3:		YES NO	
	Layer 1: Layer 2: Layer 3:		YES NO	

Locations 137A

Attachment C: Washington Building Good Faith Hazardous Material Survey

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WSU EH&S **Asbestos Sampling Data Sheet**

Building: WASHINGTON BUILD Inspector S. GILLEY Date MAY 2021

HSA	Material	Type (TSI, Surfacing, Misc.)	Estimated Quantity
SVF-11	Brown + white + Gray sheet vinyl w/ yellow + black mastic	MISC.	25 SF

Sample No.	Layering	Sample Location	Friable	Notes
A	Layer 1: sheet vinyl Layer 2: yellow mastic Layer 3: black mastic	164	(YES) NO	BT
	Layer 1: paper Layer 2: Layer 3:		YES NO	
	Layer 1: Layer 2: Layer 3:		YES NO	
	Layer 1: Layer 2: Layer 3:		YES NO	
	Layer 1: Layer 2: Layer 3:		YES NO	
	Layer 1: Layer 2: Layer 3:		YES NO	
	Layer 1: Layer 2: Layer 3:		YES NO	

Locations 164

Attachment C: Washington Building Good Faith Hazardous Material Survey

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WSU EH&S **Asbestos Sampling Data Sheet**

Building: WASHINGTON BUILD Inspector S. GILLEY Date MAY 2021

HSA	Material	Type (TSI, Surfacing, Misc.)	Estimated Quantity
SVF-12	Tan + Beige pebble pattern sheet vinyl w/ yellow + black mastic	MISC.	25 SF

Sample No.	Layering	Sample Location	Friable	Notes
A	Layer 1: sheet vinyl Layer 2: yellow mastic Layer 3: black mastic	169C	(YES) NO	BT
	Layer 1: ~~paper~~ Layer 2: Layer 3:		YES NO	
	Layer 1: Layer 2: Layer 3:		YES NO	
	Layer 1: Layer 2: Layer 3:		YES NO	
	Layer 1: Layer 2: Layer 3:		YES NO	
	Layer 1: Layer 2: Layer 3:		YES NO	
	Layer 1: Layer 2: Layer 3:		YES NO	

Locations 169C

Attachment C: Washington Building Good Faith Hazardous Material Survey

2109580

WSU EH&S **Asbestos Sampling Data Sheet**

Building: WASHINGTON BUILD Inspector S. GILLEY Date MAY 2021

HSA	Material	Type (TSI, Surfacing, Misc.)	Estimated Quantity
SVF-13	Tan + Brown + White pebble pattern sheet vinyl w/ white backing/paper	MISC.	25 SF

Sample No.	Layering	Sample Location	Friable	Notes
A	Layer 1: sheet vinyl Layer 2: white backing Layer 3:	253	(YES) NO	
	Layer 1: Layer 2: Layer 3:		YES NO	
	Layer 1: Layer 2: Layer 3:		YES NO	
	Layer 1: Layer 2: Layer 3:		YES NO	
	Layer 1: Layer 2: Layer 3:		YES NO	
	Layer 1: Layer 2: Layer 3:		YES NO	
	Layer 1: Layer 2: Layer 3:		YES NO	

Locations 253

Attachment C: Washington Building Good Faith Hazardous Material Survey

2109580

WSU EH&S **Asbestos Sampling Data Sheet**

Building: WASHINGTON BUILD Inspector S. GILLEY Date MAY 2021

HSA	Material	Type (TSI, Surfacing, Misc.)	Estimated Quantity
SVF-14	Beige + Brown + Tan pebble pattern sheet vinyl w/ gray backing	MISC.	150 SF

Sample No.	Layering	Sample Location	Friable	Notes
A	Layer 1: sheet vinyl Layer 2: gray backing Layer 3:	265	(YES) NO	storage
	Layer 1: Layer 2: Layer 3:		YES NO	
	Layer 1: Layer 2: Layer 3:		YES NO	
	Layer 1: Layer 2: Layer 3:		YES NO	
	Layer 1: Layer 2: Layer 3:		YES NO	
	Layer 1: Layer 2: Layer 3:		YES NO	
	Layer 1: Layer 2: Layer 3:		YES NO	

Locations 265, 269

Attachment C: Washington Building Good Faith Hazardous Material Survey

2109580

WSU EH&S **Asbestos Sampling Data Sheet**

Building: WASHINGTON BUILD Inspector S. GILLEY Date MAY 2021

HSA	Material	Type (TSI, Surfacing, Misc.)	Estimated Quantity
SVF-15	White + tan small pebble pattern sheet vinyl w/ gray backing	MISC	100 SF

Sample No.	Layering	Sample Location	Friable	Notes
A	Layer 1: Sheet vinyl Layer 2: gray backing Layer 3:	256	(YES) NO	office under carpet
	Layer 1: Layer 2: Layer 3:		YES NO	
	Layer 1: Layer 2: Layer 3:		YES NO	
	Layer 1: Layer 2: Layer 3:		YES NO	
	Layer 1: Layer 2: Layer 3:		YES NO	
	Layer 1: Layer 2: Layer 3:		YES NO	
	Layer 1: Layer 2: Layer 3:		YES NO	

Locations 256

Attachment C: Washington Building Good Faith Hazardous Material Survey

2109580

June 4, 2021

Matt McKibbin
Washington State University EH&S
PO Box 641172
Pullman, WA 99164-1172

RE: Bulk Asbestos Fiber Analysis; NVL Batch # 2109582.00

Client Project: 2021-023138
Location: WASHINGTON BUILDING

Dear Mr. McKibbin,

Enclosed please find test results for the 44 sample(s) submitted to our laboratory for analysis on 5/27/2021.

Examination of these samples was conducted for the presence of identifiable asbestos fibers using polarized light microscopy (PLM) with dispersion staining in accordance with **U. S. EPA 40 CFR Appendix E to Subpart E of Part 763**, Interim Method for the Determination of Asbestos in Bulk Insulation Samples and **EPA 600/R-93/116**, Method for the Determination of Asbestos in Bulk Building Materials.

For samples containing more than one separable layer of materials, the report will include findings for each layer (labeled Layer 1 and Layer 2, etc. for each individual layer). The asbestos concentration in the sample is determined by calibrated visual estimation.

For those samples with asbestos concentrations between 1 and 10 percent based on visual estimation, the EPA recommends a procedure known as point counting (NESHAPS, 40 CFR Part 61). Point counting is a statistically more accurate means of quantification for samples with low concentrations of asbestos.

The detection limit for the calibrated visual estimation is <1%, 400 point counts is 0.25% and 1000 point counts is 0.1%

Samples are archived for two weeks following analysis. Samples that are not retrieved by the client are discarded after two weeks.

Thank you for using our laboratory services. Please do not hesitate to call if there is anything further we can assist you with.

Sincerely,

Munaf Khan, Laboratory Director

Lab Code: 102063-0

Enc.: Sample Results

Phone: 206 547.0100 | Fax: 206 634.1936 | Toll Free: 1.888.NVL.LABS (685.5227)
4708 Aurora Avenue North | Seattle, WA 98103-6516

Bulk Asbestos Fibers Analysis

By Polarized Light Microscopy

Client: Washington State University EH&S
Address: PO Box 641172
Pullman, WA 99164-1172

Attention: Mr. Matt McKibbin
Project Location: WASHINGTON BUILDING

Batch #: 2109582.00
Client Project #: 2021-023138
Date Received: 5/27/2021
Samples Received: 44
Samples Analyzed: 44
Method: EPA/600/R-93/116

Lab ID: 21064276 **Client Sample #: SVF-16-A**
Location: WASHINGTON BUILDING

Layer 1 of 3	**Description:** Beige vinyl			
	Non-Fibrous Materials:	Other Fibrous Materials:	%	**Asbestos Type: %**
	Vinyl/Binder, Fine particles	None Detected	ND	**None Detected ND**
Layer 2 of 3	**Description:** White soft mastic			
	Non-Fibrous Materials:	Other Fibrous Materials:	%	**Asbestos Type: %**
	Mastic/Binder, Fine grains, Fine particles	None Detected	ND	**None Detected ND**
Layer 3 of 3	**Description:** Gray crumbly material			
	Non-Fibrous Materials:	Other Fibrous Materials:	%	**Asbestos Type: %**
	Binder/Filler, Fine grains, Fine particles	Cellulose	6%	**None Detected ND**

Lab ID: 21064277 **Client Sample #: SVF-17-A**
Location: WASHINGTON BUILDING

Layer 1 of 4	**Description:** White vinyl			
	Non-Fibrous Materials:	Other Fibrous Materials:	%	**Asbestos Type: %**
	Vinyl/Binder, Fine grains, Fine particles	None Detected	ND	**None Detected ND**
Layer 2 of 4	**Description:** Off-white fibrous material with beige mastic			
	Non-Fibrous Materials:	Other Fibrous Materials:	%	**Asbestos Type: %**
	Mastic/Binder, Fine grains, Fine particles	Cellulose	42%	**None Detected ND**
		Glass fibers	11%	
Layer 3 of 4	**Description:** Beige vinyl			
	Non-Fibrous Materials:	Other Fibrous Materials:	%	**Asbestos Type: %**
	Vinyl/Binder, Fine particles	None Detected	ND	**None Detected ND**

Sampled by: Client
Analyzed by: Akane Yoshikawa **Date:** 06/03/2021
Reviewed by: Munaf Khan **Date:** 06/04/2021

Munaf Khan, Laboratory Director

Note: If samples are not homogeneous, then subsamples of the components were analyzed separately. All bulk samples are analyzed using both EPA 600/R-93/116 and 600/M4-82-020 Methods with the following measurement uncertainties for the reported % Asbestos (1%=0-3%, 5%=1-9%, 10%=5-15%, 20%=10-30%, 50%=40-60%). This report relates only to the items tested. If sample was not collected by NVL personnel, then the accuracy of the results is limited by the methodology and acuity of the sample collector. This report shall not be reproduced except in full, without written approval of NVL Laboratories, Inc. It shall not be used to claim product endorsement by NVLAP or any other agency of the US Government

Bulk Asbestos Fibers Analysis

By Polarized Light Microscopy

Client: Washington State University EH&S
Address: PO Box 641172
Pullman, WA 99164-1172

Attention: Mr. Matt McKibbin
Project Location: WASHINGTON BUILDING

Batch #: 2109582.00
Client Project #: 2021-023138
Date Received: 5/27/2021
Samples Received: 44
Samples Analyzed: 44
Method: EPA/600/R-93/116

Layer 4 of 4	**Description:** Off-white fibrous material		
	Non-Fibrous Materials:	Other Fibrous Materials:%	**Asbestos Type: %**
	Binder/Filler, Fine particles	Cellulose 8%	**Chrysotile 43%**

Lab ID: 21064278 **Client Sample #: 12CT-01-A**
Location: WASHINGTON BUILDING

Layer 1 of 3	**Description:** Tan fibrous material with paint		
	Non-Fibrous Materials:	Other Fibrous Materials:%	**Asbestos Type: %**
	Binder/Filler, Wood flakes, Paint	Cellulose 96%	**None Detected ND**
Layer 2 of 3	**Description:** Brown brittle mastic		
	Non-Fibrous Materials:	Other Fibrous Materials:%	**Asbestos Type: %**
	Mastic/Binder, Fine particles	Cellulose 2%	**Chrysotile 3%**
Layer 3 of 3	**Description:** White brittle mastic with paint		
	Non-Fibrous Materials:	Other Fibrous Materials:%	**Asbestos Type: %**
	Mastic/Binder, Fine particles, Paint	None Detected ND	**None Detected ND**

Lab ID: 21064279 **Client Sample #: 12CT-01-B**
Location: WASHINGTON BUILDING

Layer 1 of 3	**Description:** Tan fibrous material with paint		
	Non-Fibrous Materials:	Other Fibrous Materials:%	**Asbestos Type: %**
	Binder/Filler, Wood flakes, Paint	Cellulose 98%	**None Detected ND**
Layer 2 of 3	**Description:** Brown brittle mastic		
	Non-Fibrous Materials:	Other Fibrous Materials:%	**Asbestos Type: %**
	Mastic/Binder, Fine particles	None Detected ND	**Chrysotile 3%**
Layer 3 of 3	**Description:** White brittle mastic with paint		
	Non-Fibrous Materials:	Other Fibrous Materials:%	**Asbestos Type: %**
	Mastic/Binder, Fine particles, Paint	None Detected ND	**None Detected ND**

Sampled by: Client
Analyzed by: Akane Yoshikawa **Date:** 06/03/2021
Reviewed by: Munaf Khan **Date:** 06/04/2021

Munaf Khan, Laboratory Director

Note: If samples are not homogeneous, then subsamples of the components were analyzed separately. All bulk samples are analyzed using both EPA 600/R-93/116 and 600/M4-82-020 Methods with the following measurement uncertainties for the reported % Asbestos (1%=0-3%, 5%=1-9%, 10%=5-15%, 20%=10-30%, 50%=40-60%). This report relates only to the items tested. If sample was not collected by NVL personnel, then the accuracy of the results is limited by the methodology and acuity of the sample collector. This report shall not be reproduced except in full, without written approval of NVL Laboratories, Inc. It shall not be used to claim product endorsement by NVLAP or any other agency of the US Government

Bulk Asbestos Fibers Analysis

By Polarized Light Microscopy

Client: Washington State University EH&S
Address: PO Box 641172
Pullman, WA 99164-1172

Attention: Mr. Matt McKibbin
Project Location: WASHINGTON BUILDING

Batch #: 2109582.00
Client Project #: 2021-023138
Date Received: 5/27/2021
Samples Received: 44
Samples Analyzed: 44
Method: EPA/600/R-93/116

Lab ID: 21064280 **Client Sample #: 12CT-02-A**
Location: WASHINGTON BUILDING

Layer 1 of 2	**Description:** Yellow fibrous material with paint			
	Non-Fibrous Materials:	Other Fibrous Materials:%		**Asbestos Type: %**
	Binder/Filler, Paint	Glass fibers	98%	**None Detected ND**
Layer 2 of 2	**Description:** Brown brittle mastic			
	Non-Fibrous Materials:	Other Fibrous Materials:%		**Asbestos Type: %**
	Mastic/Binder, Fine grains, Fine particles	Glass fibers	2%	**Chrysotile 4%**

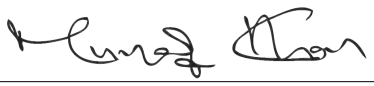
Lab ID: 21064281 **Client Sample #: 12CT-02-B**
Location: WASHINGTON BUILDING

Layer 1 of 2	**Description:** Yellow fibrous material with paint			
	Non-Fibrous Materials:	Other Fibrous Materials:%		**Asbestos Type: %**
	Binder/Filler, Paint	Glass fibers	98%	**None Detected ND**
Layer 2 of 2	**Description:** Brown brittle mastic			
	Non-Fibrous Materials:	Other Fibrous Materials:%		**Asbestos Type: %**
	Mastic/Binder, Fine grains, Fine particles	Glass fibers	4%	**None Detected ND**
		Talc fibers	2%	

Lab ID: 21064282 **Client Sample #: 2X4SCT-01-A**
Location: WASHINGTON BUILDING

Layer 1 of 1	**Description:** Gray fibrous material with paint			
	Non-Fibrous Materials:	Other Fibrous Materials:%		**Asbestos Type: %**
	Binder/Filler, Plastic, Glass beads	Cellulose	37%	**None Detected ND**
	Fine particles, Paint	Glass fibers	29%	

Sampled by: Client
Analyzed by: Akane Yoshikawa **Date:** 06/03/2021
Reviewed by: Munaf Khan **Date:** 06/04/2021



Munaf Khan, Laboratory Director

Note: If samples are not homogeneous, then subsamples of the components were analyzed separately. All bulk samples are analyzed using both EPA 600/R-93/116 and 600/M4-82-020 Methods with the following measurement uncertainties for the reported % Asbestos (1%=0-3%, 5%=1-9%, 10%=5-15%, 20%=10-30%, 50%=40-60%). This report relates only to the items tested. If sample was not collected by NVL personnel, then the accuracy of the results is limited by the methodology and acuity of the sample collector. This report shall not be reproduced except in full, without written approval of NVL Laboratories, Inc. It shall not be used to claim product endorsement by NVLAP or any other agency of the US Government

Bulk Asbestos Fibers Analysis

By Polarized Light Microscopy

Client: Washington State University EH&S
Address: PO Box 641172
Pullman, WA 99164-1172

Attention: Mr. Matt McKibbin
Project Location: WASHINGTON BUILDING

Batch #: 2109582.00
Client Project #: 2021-023138
Date Received: 5/27/2021
Samples Received: 44
Samples Analyzed: 44
Method: EPA/600/R-93/116

Lab ID: 21064283 **Client Sample #: 2X4SCT-01-B**
Location: WASHINGTON BUILDING

Layer 1 of 1 **Description:** Gray fibrous material with paint

Non-Fibrous Materials:	Other Fibrous Materials:%	**Asbestos Type: %**
Binder/Filler, Plastic, Glass beads	Cellulose 34%	**None Detected ND**
Fine particles, Paint	Glass fibers 27%	

Lab ID: 21064284 **Client Sample #: 2X4SCT-02-A**
Location: WASHINGTON BUILDING

Layer 1 of 1 **Description:** Gray fibrous material with paint

Non-Fibrous Materials:	Other Fibrous Materials:%	**Asbestos Type: %**
Binder/Filler, Plastic, Glass beads	Cellulose 33%	**None Detected ND**
Fine particles, Paint	Glass fibers 31%	

Lab ID: 21064285 **Client Sample #: 2X4SCT-02-B**
Location: WASHINGTON BUILDING

Layer 1 of 1 **Description:** Gray fibrous material with paint

Non-Fibrous Materials:	Other Fibrous Materials:%	**Asbestos Type: %**
Binder/Filler, Plastic, Glass beads	Cellulose 34%	**None Detected ND**
Fine particles, Paint	Glass fibers 26%	

Lab ID: 21064286 **Client Sample #: 2X4SCT-03-A**
Location: WASHINGTON BUILDING

Layer 1 of 1 **Description:** Off-white fibrous material with paint

Non-Fibrous Materials:	Other Fibrous Materials:%	**Asbestos Type: %**
Binder/Filler, Mineral grains, Perlite	Cellulose 36%	**None Detected ND**
Fine particles, Paint	Glass fibers 23%	

Sampled by: Client
Analyzed by: Akane Yoshikawa **Date:** 06/03/2021
Reviewed by: Munaf Khan **Date:** 06/04/2021

Munaf Khan, Laboratory Director

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Bulk Asbestos Fibers Analysis

By Polarized Light Microscopy

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Address: PO Box 641172
Pullman, WA 99164-1172

Attention: Mr. Matt McKibbin
Project Location: WASHINGTON BUILDING

Batch #: 2109582.00
Client Project #: 2021-023138
Date Received: 5/27/2021
Samples Received: 44
Samples Analyzed: 44
Method: EPA/600/R-93/116

Lab ID: 21064287 **Client Sample #: 2X4SCT-03-B**
Location: WASHINGTON BUILDING

Layer 1 of 1 **Description:** Off-white fibrous material with paint

Non-Fibrous Materials:	Other Fibrous Materials:%	**Asbestos Type: %**
Binder/Filler, Mineral grains, Perlite	Cellulose 33%	**None Detected ND**
Fine particles, Paint	Glass fibers 27%	

Lab ID: 21064288 **Client Sample #: 2X4SCT-04-A**
Location: WASHINGTON BUILDING

Layer 1 of 2 **Description:** Clear soft adhesive with thin white coating material

Non-Fibrous Materials:	Other Fibrous Materials:%	**Asbestos Type: %**
Adhesive/Binder, Fine particles, Plastic	Glass fibers 3%	**None Detected ND**

Layer 2 of 2 **Description:** Yellow fibrous material

Non-Fibrous Materials:	Other Fibrous Materials:%	**Asbestos Type: %**
Binder/Filler	Glass fibers 98%	**None Detected ND**

Lab ID: 21064289 **Client Sample #: 2X4SCT-04-B**
Location: WASHINGTON BUILDING

Layer 1 of 2 **Description:** Clear soft adhesive with thin white coating material

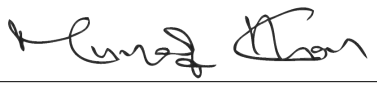
Non-Fibrous Materials:	Other Fibrous Materials:%	**Asbestos Type: %**
Adhesive/Binder, Fine particles, Plastic	Glass fibers 6%	**None Detected ND**

Layer 2 of 2 **Description:** Yellow fibrous material

Non-Fibrous Materials:	Other Fibrous Materials:%	**Asbestos Type: %**
Binder/Filler	Glass fibers 98%	**None Detected ND**

Lab ID: 21064290 **Client Sample #: 2X2SCT-01-A**
Location: WASHINGTON BUILDING

Sampled by: Client
Analyzed by: Akane Yoshikawa **Date:** 06/03/2021
Reviewed by: Munaf Khan **Date:** 06/04/2021



Munaf Khan, Laboratory Director

Note: If samples are not homogeneous, then subsamples of the components were analyzed separately. All bulk samples are analyzed using both EPA 600/R-93/116 and 600/M4-82-020 Methods with the following measurement uncertainties for the reported % Asbestos (1%=0-3%, 5%=1-9%, 10%=5-15%, 20%=10-30%, 50%=40-60%). This report relates only to the items tested. If sample was not collected by NVL personnel, then the accuracy of the results is limited by the methodology and acuity of the sample collector. This report shall not be reproduced except in full, without written approval of NVL Laboratories, Inc. It shall not be used to claim product endorsement by NVLAP or any other agency of the US Government

Bulk Asbestos Fibers Analysis

By Polarized Light Microscopy

Client: Washington State University EH&S
Address: PO Box 641172
Pullman, WA 99164-1172

Attention: Mr. Matt McKibbin
Project Location: WASHINGTON BUILDING

Batch #: 2109582.00
Client Project #: 2021-023138
Date Received: 5/27/2021
Samples Received: 44
Samples Analyzed: 44
Method: EPA/600/R-93/116

Layer 1 of 1	**Description:** Gray fibrous material with paint			
	Non-Fibrous Materials:	Other Fibrous Materials:	%	**Asbestos Type: %**
	Binder/Filler, Perlite, Glass beads	Glass fibers	38%	**None Detected ND**
	Fine particles, Paint	Cellulose	31%	

Lab ID: 21064291 **Client Sample #: 2X2SCT-01-B**
Location: WASHINGTON BUILDING

Layer 1 of 1	**Description:** Gray fibrous material with paint			
	Non-Fibrous Materials:	Other Fibrous Materials:	%	**Asbestos Type: %**
	Binder/Filler, Perlite, Glass beads	Glass fibers	39%	**None Detected ND**
	Fine particles, Paint	Cellulose	28%	

Lab ID: 21064292 **Client Sample #: 4BRNCB-01A**
Location: WASHINGTON BUILDING

Layer 1 of 3	**Description:** Brown rubbery material			
	Non-Fibrous Materials:	Other Fibrous Materials:	%	**Asbestos Type: %**
	Vinyl/Binder, Fine particles	None Detected	ND	**None Detected ND**
Layer 2 of 3	**Description:** Yellow soft mastic			
	Non-Fibrous Materials:	Other Fibrous Materials:	%	**Asbestos Type: %**
	Mastic/Binder, Fine particles	None Detected	ND	**None Detected ND**
Layer 3 of 3	**Description:** White compacted powdery material with paper & paint			
	Non-Fibrous Materials:	Other Fibrous Materials:	%	**Asbestos Type: %**
	Binder/Filler, Fine grains, Fine particles	Cellulose	9%	**None Detected ND**
	Paint			

Lab ID: 21064293 **Client Sample #: 4BRNCB-01-B**
Location: WASHINGTON BUILDING

Sampled by: Client
Analyzed by: Akane Yoshikawa **Date:** 06/03/2021
Reviewed by: Munaf Khan **Date:** 06/04/2021

Munaf Khan, Laboratory Director

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Bulk Asbestos Fibers Analysis

By Polarized Light Microscopy

Client: Washington State University EH&S
Address: PO Box 641172
Pullman, WA 99164-1172

Attention: Mr. Matt McKibbin
Project Location: WASHINGTON BUILDING

Batch #: 2109582.00
Client Project #: 2021-023138
Date Received: 5/27/2021
Samples Received: 44
Samples Analyzed: 44
Method: EPA/600/R-93/116

Layer 1 of 2	**Description:** Brown rubbery material		
	Non-Fibrous Materials:	Other Fibrous Materials:%	**Asbestos Type: %**
	Vinyl/Binder, Fine particles	None Detected ND	**None Detected ND**
Layer 2 of 2	**Description:** Yellow soft mastic with paint		
	Non-Fibrous Materials:	Other Fibrous Materials:%	**Asbestos Type: %**
	Mastic/Binder, Fine particles, Paint	Cellulose 2%	**None Detected ND**

Lab ID: 21064294 **Client Sample #: 4TCB-01-A**
Location: WASHINGTON BUILDING

Layer 1 of 2	**Description:** Gray rubbery material		
	Non-Fibrous Materials:	Other Fibrous Materials:%	**Asbestos Type: %**
	Vinyl/Binder, Fine particles	None Detected ND	**None Detected ND**
Layer 2 of 2	**Description:** Yellow/white soft mastic with paper and paint		
	Non-Fibrous Materials:	Other Fibrous Materials:%	**Asbestos Type: %**
	Mastic/Binder, Fine grains, Fine particles	Cellulose 11%	**None Detected ND**
	Paint, Debris		

Lab ID: 21064295 **Client Sample #: 4TCB-01-B**
Location: WASHINGTON BUILDING

Layer 1 of 2	**Description:** Gray rubbery material		
	Non-Fibrous Materials:	Other Fibrous Materials:%	**Asbestos Type: %**
	Vinyl/Binder, Fine particles	None Detected ND	**None Detected ND**
Layer 2 of 2	**Description:** Yellow soft mastic		
	Non-Fibrous Materials:	Other Fibrous Materials:%	**Asbestos Type: %**
	Mastic/Binder, Fine particles	Cellulose <1%	**None Detected ND**

Sampled by: Client
Analyzed by: Akane Yoshikawa **Date:** 06/03/2021
Reviewed by: Munaf Khan **Date:** 06/04/2021

Munaf Khan, Laboratory Director

Note: If samples are not homogeneous, then subsamples of the components were analyzed separately. All bulk samples are analyzed using both EPA 600/R-93/116 and 600/M4-82-020 Methods with the following measurement uncertainties for the reported % Asbestos (1%=0-3%, 5%=1-9%, 10%=5-15%, 20%=10-30%, 50%=40-60%). This report relates only to the items tested. If sample was not collected by NVL personnel, then the accuracy of the results is limited by the methodology and acuity of the sample collector. This report shall not be reproduced except in full, without written approval of NVL Laboratories, Inc. It shall not be used to claim product endorsement by NVLAP or any other agency of the US Government

Bulk Asbestos Fibers Analysis

By Polarized Light Microscopy

Client: Washington State University EH&S
Address: PO Box 641172
Pullman, WA 99164-1172

Attention: Mr. Matt McKibbin
Project Location: WASHINGTON BUILDING

Batch #: 2109582.00
Client Project #: 2021-023138
Date Received: 5/27/2021
Samples Received: 44
Samples Analyzed: 44
Method: EPA/600/R-93/116

Lab ID: 21064296 **Client Sample #: 4BLCB-01-A**
Location: WASHINGTON BUILDING
Comments: Small sample size (Layer 2).

Layer 1 of 2	**Description:** Black rubbery material			
	Non-Fibrous Materials:	Other Fibrous Materials:%		**Asbestos Type: %**
	Vinyl/Binder, Fine particles	None Detected	ND	**None Detected ND**
Layer 2 of 2	**Description:** Yellow brittle mastic with paper and paint			
	Non-Fibrous Materials:	Other Fibrous Materials:%		**Asbestos Type: %**
	Mastic/Binder, Fine particles, Paint	Cellulose	9%	**None Detected ND**

Lab ID: 21064297 **Client Sample #: 4BLCB-01-B**
Location: WASHINGTON BUILDING
Comments: Small sample size (Layer 2).

Layer 1 of 2	**Description:** Black rubbery material			
	Non-Fibrous Materials:	Other Fibrous Materials:%		**Asbestos Type: %**
	Vinyl/Binder, Fine particles	None Detected	ND	**None Detected ND**
Layer 2 of 2	**Description:** Beige brittle mastic with paint			
	Non-Fibrous Materials:	Other Fibrous Materials:%		**Asbestos Type: %**
	Mastic/Binder, Fine grains, Fine particles	None Detected	ND	**None Detected ND**
	Paint			

Lab ID: 21064298 **Client Sample #: 4DBRNCB-01-A**
Location: WASHINGTON BUILDING
Comments: Small sample size (Layer 2).

Layer 1 of 2	**Description:** Dark brown rubbery material			
	Non-Fibrous Materials:	Other Fibrous Materials:%		**Asbestos Type: %**
	Vinyl/Binder, Fine particles	None Detected	ND	**None Detected ND**

Sampled by: Client
Analyzed by: Akane Yoshikawa **Date:** 06/03/2021
Reviewed by: Munaf Khan **Date:** 06/04/2021

Munaf Khan, Laboratory Director

Note: If samples are not homogeneous, then subsamples of the components were analyzed separately. All bulk samples are analyzed using both EPA 600/R-93/116 and 600/M4-82-020 Methods with the following measurement uncertainties for the reported % Asbestos (1%=0-3%, 5%=1-9%, 10%=5-15%, 20%=10-30%, 50%=40-60%). This report relates only to the items tested. If sample was not collected by NVL personnel, then the accuracy of the results is limited by the methodology and acuity of the sample collector. This report shall not be reproduced except in full, without written approval of NVL Laboratories, Inc. It shall not be used to claim product endorsement by NVLAP or any other agency of the US Government

Bulk Asbestos Fibers Analysis

By Polarized Light Microscopy

Client: Washington State University EH&S
Address: PO Box 641172
Pullman, WA 99164-1172

Attention: Mr. Matt McKibbin
Project Location: WASHINGTON BUILDING

Batch #: 2109582.00
Client Project #: 2021-023138
Date Received: 5/27/2021
Samples Received: 44
Samples Analyzed: 44
Method: EPA/600/R-93/116

Layer 2 of 2 **Description:** Beige brittle mastic with paint

Non-Fibrous Materials:	Other Fibrous Materials:%	**Asbestos Type: %**
Mastic/Binder, Fine grains, Fine particles	Cellulose <1%	**None Detected ND**
Paint		

Lab ID: 21064299 **Client Sample #: 4DBRNCB-01-B**

Location: WASHINGTON BUILDING

Layer 1 of 4 **Description:** Black rubbery material

Non-Fibrous Materials:	Other Fibrous Materials:%	**Asbestos Type: %**
Vinyl/Binder, Fine particles	None Detected ND	**None Detected ND**

Layer 2 of 4 **Description:** Brown brittle mastic with paper

Non-Fibrous Materials:	Other Fibrous Materials:%	**Asbestos Type: %**
Mastic/Binder, Fine grains, Fine particles	None Detected ND	**None Detected ND**

Layer 3 of 4 **Description:** Yellow soft mastic

Non-Fibrous Materials:	Other Fibrous Materials:%	**Asbestos Type: %**
Mastic/Binder, Fine particles	None Detected ND	**None Detected ND**

Layer 4 of 4 **Description:** White compacted powdery material with paint

Non-Fibrous Materials:	Other Fibrous Materials:%	**Asbestos Type: %**
Binder/Filler, Fine grains, Fine particles	None Detected ND	**None Detected ND**
Paint		

Lab ID: 21064300 **Client Sample #: 4AQCB-01-A**

Location: WASHINGTON BUILDING

Layer 1 of 4 **Description:** Clear soft elastic material

Non-Fibrous Materials:	Other Fibrous Materials:%	**Asbestos Type: %**
Binder/Filler, Fine particles	None Detected ND	**None Detected ND**

Sampled by: Client
Analyzed by: Akane Yoshikawa **Date:** 06/03/2021
Reviewed by: Munaf Khan **Date:** 06/04/2021

Munaf Khan, Laboratory Director

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Bulk Asbestos Fibers Analysis

By Polarized Light Microscopy

Client: Washington State University EH&S
Address: PO Box 641172
Pullman, WA 99164-1172

Attention: Mr. Matt McKibbin
Project Location: WASHINGTON BUILDING

Batch #: 2109582.00
Client Project #: 2021-023138
Date Received: 5/27/2021
Samples Received: 44
Samples Analyzed: 44
Method: EPA/600/R-93/116

Layer 2 of 4	**Description:** Blue rubbery material			
	Non-Fibrous Materials:	Other Fibrous Materials:%		**Asbestos Type: %**
	Vinyl/Binder, Fine particles	None Detected	ND	**None Detected ND**
Layer 3 of 4	**Description:** Off-white soft mastic			
	Non-Fibrous Materials:	Other Fibrous Materials:%		**Asbestos Type: %**
	Mastic/Binder, Fine particles	None Detected	ND	**None Detected ND**
Layer 4 of 4	**Description:** Brown brittle mastic with paint			
	Non-Fibrous Materials:	Other Fibrous Materials:%		**Asbestos Type: %**
	Mastic/Binder, Fine particles, Paint	Wollastonite	2%	**None Detected ND**

Lab ID: 21064301 **Client Sample #: 6DBRNCB-01-A**
Location: WASHINGTON BUILDING

Layer 1 of 2	**Description:** Brown rubbery material			
	Non-Fibrous Materials:	Other Fibrous Materials:%		**Asbestos Type: %**
	Vinyl/Binder, Fine particles	None Detected	ND	**None Detected ND**
Layer 2 of 2	**Description:** Brown brittle mastic			
	Non-Fibrous Materials:	Other Fibrous Materials:%		**Asbestos Type: %**
	Mastic/Binder, Fine particles	Wollastonite	2%	**None Detected ND**

Lab ID: 21064302 **Client Sample #: 6DBRNCB-01-B**
Location: WASHINGTON BUILDING

Layer 1 of 2	**Description:** Brown rubbery material			
	Non-Fibrous Materials:	Other Fibrous Materials:%		**Asbestos Type: %**
	Vinyl/Binder, Fine particles	None Detected	ND	**None Detected ND**
Layer 2 of 2	**Description:** Brown brittle mastic			
	Non-Fibrous Materials:	Other Fibrous Materials:%		**Asbestos Type: %**
	Mastic/Binder, Fine particles	Wollastonite	3%	**None Detected ND**

Sampled by: Client
Analyzed by: Akane Yoshikawa **Date:** 06/03/2021
Reviewed by: Munaf Khan **Date:** 06/04/2021

Munaf Khan, Laboratory Director

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Bulk Asbestos Fibers Analysis

By Polarized Light Microscopy

Client: Washington State University EH&S
Address: PO Box 641172
Pullman, WA 99164-1172

Attention: Mr. Matt McKibbin
Project Location: WASHINGTON BUILDING

Batch #: 2109582.00
Client Project #: 2021-023138
Date Received: 5/27/2021
Samples Received: 44
Samples Analyzed: 44
Method: EPA/600/R-93/116

Lab ID: 21064303 **Client Sample #: 6GRYCB-01-A**
Location: WASHINGTON BUILDING

Layer 1 of 3	**Description:** Gray rubbery material		
	Non-Fibrous Materials:	Other Fibrous Materials:%	**Asbestos Type: %**
	Vinyl/Binder, Fine particles	None Detected ND	**None Detected ND**
Layer 2 of 3	**Description:** Off-white soft mastic		
	Non-Fibrous Materials:	Other Fibrous Materials:%	**Asbestos Type: %**
	Mastic/Binder, Fine particles	None Detected ND	**None Detected ND**
Layer 3 of 3	**Description:** White chalky material with paper		
	Non-Fibrous Materials:	Other Fibrous Materials:%	**Asbestos Type: %**
	Gypsum/Binder, Fine grains, Calcareous particles	Cellulose 14%	**None Detected ND**
		Glass fibers 2%	

Lab ID: 21064304 **Client Sample #: 6GRYCB-01-B**
Location: WASHINGTON BUILDING

Layer 1 of 2	**Description:** Gray rubbery material		
	Non-Fibrous Materials:	Other Fibrous Materials:%	**Asbestos Type: %**
	Vinyl/Binder, Fine particles	None Detected ND	**None Detected ND**
Layer 2 of 2	**Description:** Beige soft adhesive with paper and paint		
	Non-Fibrous Materials:	Other Fibrous Materials:%	**Asbestos Type: %**
	Adhesive/Binder, Fine particles, Paint	Cellulose 12%	**None Detected ND**

Lab ID: 21064305 **Client Sample #: 6WHCB-01-A**
Location: WASHINGTON BUILDING

Layer 1 of 3	**Description:** White rubbery material		
	Non-Fibrous Materials:	Other Fibrous Materials:%	**Asbestos Type: %**
	Vinyl/Binder, Fine particles	None Detected ND	**None Detected ND**

Sampled by: Client
Analyzed by: Akane Yoshikawa **Date:** 06/03/2021
Reviewed by: Munaf Khan **Date:** 06/04/2021

Munaf Khan, Laboratory Director

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Bulk Asbestos Fibers Analysis

By Polarized Light Microscopy

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Address: PO Box 641172
Pullman, WA 99164-1172

Attention: Mr. Matt McKibbin
Project Location: WASHINGTON BUILDING

Batch #: 2109582.00
Client Project #: 2021-023138
Date Received: 5/27/2021
Samples Received: 44
Samples Analyzed: 44
Method: EPA/600/R-93/116

Layer 2 of 3	**Description:** White soft mastic			
	Non-Fibrous Materials:	Other Fibrous Materials:%		**Asbestos Type: %**
	Mastic/Binder, Fine particles	None Detected	ND	**None Detected ND**
Layer 3 of 3	**Description:** White compacted powdery material with paint			
	Non-Fibrous Materials:	Other Fibrous Materials:%		**Asbestos Type: %**
	Binder/Filler, Fine grains, Fine particles	None Detected	ND	**None Detected ND**
	Paint			

Lab ID: 21064306 **Client Sample #: 6WHCB-01-B**
Location: WASHINGTON BUILDING

Layer 1 of 2	**Description:** White rubbery material			
	Non-Fibrous Materials:	Other Fibrous Materials:%		**Asbestos Type: %**
	Vinyl/Binder, Fine particles	None Detected	ND	**None Detected ND**
Layer 2 of 2	**Description:** White soft mastic with paper and paint			
	Non-Fibrous Materials:	Other Fibrous Materials:%		**Asbestos Type: %**
	Mastic/Binder, Fine particles, Paint	Cellulose	8%	**None Detected ND**

Lab ID: 21064307 **Client Sample #: 6TCB-01-A**
Location: WASHINGTON BUILDING

Layer 1 of 3	**Description:** Gray rubbery material			
	Non-Fibrous Materials:	Other Fibrous Materials:%		**Asbestos Type: %**
	Vinyl/Binder, Fine particles	None Detected	ND	**None Detected ND**
Layer 2 of 3	**Description:** Yellow brittle mastic			
	Non-Fibrous Materials:	Other Fibrous Materials:%		**Asbestos Type: %**
	Mastic/Binder, Fine grains, Fine particles	None Detected	ND	**None Detected ND**

Sampled by: Client
Analyzed by: Akane Yoshikawa **Date:** 06/03/2021
Reviewed by: Munaf Khan **Date:** 06/04/2021

Munaf Khan, Laboratory Director

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Bulk Asbestos Fibers Analysis

By Polarized Light Microscopy

Client: Washington State University EH&S
Address: PO Box 641172
Pullman, WA 99164-1172

Attention: Mr. Matt McKibbin
Project Location: WASHINGTON BUILDING

Batch #: 2109582.00
Client Project #: 2021-023138
Date Received: 5/27/2021
Samples Received: 44
Samples Analyzed: 44
Method: EPA/600/R-93/116

Layer 3 of 3	**Description:** White compacted powdery material			
	Non-Fibrous Materials:	Other Fibrous Materials:%		**Asbestos Type: %**
	Binder/Filler, Fine grains, Fine particles	None Detected	ND	**None Detected ND**

Lab ID: 21064308 **Client Sample #: 6TCB-01-B**
Location: WASHINGTON BUILDING

Layer 1 of 3	**Description:** Beige rubbery material			
	Non-Fibrous Materials:	Other Fibrous Materials:%		**Asbestos Type: %**
	Vinyl/Binder, Fine particles	None Detected	ND	**None Detected ND**
Layer 2 of 3	**Description:** White soft mastic			
	Non-Fibrous Materials:	Other Fibrous Materials:%		**Asbestos Type: %**
	Mastic/Binder, Fine particles	None Detected	ND	**None Detected ND**
Layer 3 of 3	**Description:** Brown brittle mastic with paper			
	Non-Fibrous Materials:	Other Fibrous Materials:%		**Asbestos Type: %**
	Mastic/Binder, Fine grains, Fine particles	Cellulose	12%	**None Detected ND**

Lab ID: 21064309 **Client Sample #: RFSQMT-01-A**
Location: WASHINGTON BUILDING

Layer 1 of 1	**Description:** Off-white soft mastic with debris			
	Non-Fibrous Materials:	Other Fibrous Materials:%		**Asbestos Type: %**
	Mastic/Binder, Fine particles	Cellulose	4%	**None Detected ND**

Lab ID: 21064310 **Client Sample #: FLGRY-01-A**
Location: WASHINGTON BUILDING

Layer 1 of 2	**Description:** Gray vinyl with white fibrous mesh			
	Non-Fibrous Materials:	Other Fibrous Materials:%		**Asbestos Type: %**
	Vinyl/Binder, Fine grains, Fine particles	Glass fibers	14%	**None Detected ND**
		Synthetic fibers	9%	

Sampled by: Client
Analyzed by: Akane Yoshikawa **Date:** 06/03/2021
Reviewed by: Munaf Khan **Date:** 06/04/2021

Munaf Khan, Laboratory Director

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Project Location: WASHINGTON BUILDING

Batch #: 2109582.00
Client Project #: 2021-023138
Date Received: 5/27/2021
Samples Received: 44
Samples Analyzed: 44
Method: EPA/600/R-93/116

Layer 2 of 2 **Description:** Clear soft adhesive with tape

Non-Fibrous Materials:	Other Fibrous Materials:	%	**Asbestos Type: %**
Adhesive/Binder, Fine particles, Plastic	Cellulose	4%	**None Detected ND**
	Synthetic fibers	3%	

Lab ID: 21064311 **Client Sample #: CAB-01-A**

Location: WASHINGTON BUILDING

Layer 1 of 2 **Description:** Gray cementitious material

Non-Fibrous Materials:	Other Fibrous Materials:	%	**Asbestos Type: %**
Cement/Binder, Fine grains, Calcareous particles	None Detected	ND	**Chrysotile 29%**

Layer 2 of 2 **Description:** Black asphaltic mastic

Non-Fibrous Materials:	Other Fibrous Materials:	%	**Asbestos Type: %**
Asphalt/Binder, Fine particles	None Detected	ND	**Chrysotile 4%**

Lab ID: 21064312 **Client Sample #: TSI-01-A**

Location: WASHINGTON BUILDING

Layer 1 of 1 **Description:** White foamy material with white fibrous mesh

Non-Fibrous Materials:	Other Fibrous Materials:	%	**Asbestos Type: %**
Binder/Filler, Fine particles	Cellulose	18%	**Chrysotile 13%**
			Amosite 7%

Lab ID: 21064313 **Client Sample #: TSI-01-B**

Location: WASHINGTON BUILDING

Layer 1 of 1 **Description:** White foamy material with white fibrous mesh and paper

Non-Fibrous Materials:	Other Fibrous Materials:	%	**Asbestos Type: %**
Binder/Filler, Fine particles	Cellulose	27%	**Chrysotile 12%**
			Amosite 9%

Sampled by: Client
Analyzed by: Akane Yoshikawa **Date:** 06/03/2021
Reviewed by: Munaf Khan **Date:** 06/04/2021

Munaf Khan, Laboratory Director

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Bulk Asbestos Fibers Analysis

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Pullman, WA 99164-1172

Attention: Mr. Matt McKibbin
Project Location: WASHINGTON BUILDING

Batch #: 2109582.00
Client Project #: 2021-023138
Date Received: 5/27/2021
Samples Received: 44
Samples Analyzed: 44
Method: EPA/600/R-93/116

Lab ID: 21064314 **Client Sample #: TSI-02-A**
Location: WASHINGTON BUILDING

Layer 1 of 1 **Description:** Gray crumbly material with paint

Non-Fibrous Materials:	Other Fibrous Materials:%	**Asbestos Type: %**
Binder/Filler, Fine particles, Glass beads	Glass fibers 36%	**None Detected ND**
Paint		

Lab ID: 21064315 **Client Sample #: TSI-02-B**
Location: WASHINGTON BUILDING

Layer 1 of 1 **Description:** Gray crumbly material with paint

Non-Fibrous Materials:	Other Fibrous Materials:%	**Asbestos Type: %**
Binder/Filler, Fine particles, Glass beads	Glass fibers 38%	**None Detected ND**
Paint		

Lab ID: 21064316 **Client Sample #: TSI-03-A**
Location: WASHINGTON BUILDING

Layer 1 of 1 **Description:** White flaky material

Non-Fibrous Materials:	Other Fibrous Materials:%	**Asbestos Type: %**
Binder/Filler, Fine particles	None Detected ND	**Chrysotile 34%**

Lab ID: 21064317 **Client Sample #: VBBL-01-A**
Location: WASHINGTON BUILDING

Layer 1 of 2 **Description:** Gray brittle material

Non-Fibrous Materials:	Other Fibrous Materials:%	**Asbestos Type: %**
Cement/Binder, Gravel, Fine grains	None Detected ND	**None Detected ND**
Cementitious particles		

Sampled by: Client
Analyzed by: Akane Yoshikawa **Date:** 06/03/2021
Reviewed by: Munaf Khan **Date:** 06/04/2021

Munaf Khan, Laboratory Director

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Bulk Asbestos Fibers Analysis

By Polarized Light Microscopy

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Address: PO Box 641172
Pullman, WA 99164-1172

Attention: Mr. Matt McKibbin
Project Location: WASHINGTON BUILDING

Batch #: 2109582.00
Client Project #: 2021-023138
Date Received: 5/27/2021
Samples Received: 44
Samples Analyzed: 44
Method: EPA/600/R-93/116

Layer 2 of 2	**Description:** Black asphaltic mastic			
	Non-Fibrous Materials:	Other Fibrous Materials:%		**Asbestos Type: %**
	Asphalt/Binder, Fine particles	None Detected	ND	**None Detected ND**

Lab ID: 21064318 **Client Sample #: DMGRY-01-A**
Location: WASHINGTON BUILDING

Layer 1 of 1	**Description:** Gray soft mastic			
	Non-Fibrous Materials:	Other Fibrous Materials:%		**Asbestos Type: %**
	Mastic/Binder, Fine particles, Metallic flakes	None Detected	ND	**None Detected ND**

Lab ID: 21064319 **Client Sample #: GWB-01-A**
Location: WASHINGTON BUILDING

Layer 1 of 2	**Description:** White compacted powdery material			
	Non-Fibrous Materials:	Other Fibrous Materials:%		**Asbestos Type: %**
	Binder/Filler, Fine grains, Fine particles	Cellulose	2%	**None Detected ND**
Layer 2 of 2	**Description:** White chalky material with paper			
	Non-Fibrous Materials:	Other Fibrous Materials:%		**Asbestos Type: %**
	Gypsum/Binder, Fine grains, Calcareous particles	Cellulose	15%	**None Detected ND**
		Glass fibers	3%	

Sampled by: Client
Analyzed by: Akane Yoshikawa **Date:** 06/03/2021
Reviewed by: Munaf Khan **Date:** 06/04/2021

Munaf Khan, Laboratory Director

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Company Washington State University EH&S
Address PO Box 641172
Pullman, WA 99164-1172
Project Manager Mr. Matt McKibbin
Phone (509) 335-3041
Direct (509) 335-5311

NVL Batch Number **2109582.00**
TAT 5 Days **AH** No
Rush TAT
Due Date 6/4/2021 **Time** 9:45 AM
Email mrmckibbin@wsu.edu
Fax (509) 730-5548

Project Name/Number: 2021-023138 **Project Location:** WASHINGTON BUILDING

Subcategory PLM Bulk
Item Code ASB-02 EPA 600/R-93-116 Asbestos by PLM <bulk>

Total Number of Samples 44 Rush Samples

	Lab ID	Sample ID	Description	A/R
1	21064276	SVF-16-A		A
2	21064277	SVF-17-A		A
3	21064278	12CT-01-A		A
4	21064279	12CT-01-B		A
5	21064280	12CT-02-A		A
6	21064281	12CT-02-B		A
7	21064282	2X4SCT-01-A		A
8	21064283	2X4SCT-01-B		A
9	21064284	2X4SCT-02-A		A
10	21064285	2X4SCT-02-B		A
11	21064286	2X4SCT-03-A		A
12	21064287	2X4SCT-03-B		A
13	21064288	2X4SCT-04-A		A
14	21064289	2X4SCT-04-B		A
15	21064290	2X2SCT-01-A		A
16	21064291	2X2SCT-01-B		A
17	21064292	4BRNCB-01A		A
18	21064293	4BRNCB-01-B		A

	Print Name	Signature	Company	Date	Time
Sampled by	Client				
Relinquished by	Federal Express				

Office Use Only	Print Name	Signature	Company	Date	Time
Received by	Kelly AuVu		NVL	5/27/21	945
Analyzed by	Akane Yoshikawa		NVL	6/3/21	
Results Called by					
☐ **Faxed** ☐ **Emailed**					

Special Instructions:

Date: 5/27/2021
Time: 12:07 PM
Entered By: Kelly AuVu



Company Washington State University EH&S
Address PO Box 641172
Pullman, WA 99164-1172
Project Manager Mr. Matt McKibbin
Phone (509) 335-3041
Direct (509) 335-5311

NVL Batch Number **2109582.00**
TAT 5 Days **AH** No
Rush TAT
Due Date 6/4/2021 **Time** 9:45 AM
Email mrmckibbin@wsu.edu
Fax (509) 730-5548

Project Name/Number: 2021-023138 **Project Location:** WASHINGTON BUILDING

Subcategory PLM Bulk
Item Code ASB-02 EPA 600/R-93-116 Asbestos by PLM <bulk>

Total Number of Samples 44 Rush Samples

	Lab ID	Sample ID	Description	A/R
19	21064294	4TCB-01-A		A
20	21064295	4TCB-01-B		A
21	21064296	4BLCB-01-A		A
22	21064297	4BLCB-01-B		A
23	21064298	4DBRNCB-01-A		A
24	21064299	4DBRNCB-01-B		A
25	21064300	4AQCB-01-A		A
26	21064301	6DBRNCB-01-A		A
27	21064302	6DBRNCB-01-B		A
28	21064303	6GRYCB-01-A		A
29	21064304	6GRYCB-01-B		A
30	21064305	6WHCB-01-A		A
31	21064306	6WHCB-01-B		A
32	21064307	6TCB-01-A		A
33	21064308	6TCB-01-B		A
34	21064309	RFSQMT-01-A		A
35	21064310	FLGRY-01-A		A
36	21064311	CAB-01-A		A

	Print Name	Signature	Company	Date	Time
Sampled by	Client				
Relinquished by	Federal Express				

Office Use Only	Print Name	Signature	Company	Date	Time
Received by	Kelly AuVu		NVL	5/27/21	945
Analyzed by	Akane Yoshikawa		NVL	6/3/21	
Results Called by					
☐ **Faxed** ☐ **Emailed**					

Special Instructions:

Date: 5/27/2021
Time: 12:07 PM
Entered By: Kelly AuVu

ASBESTOS LABORATORY SERVICES



Company	Washington State University EH&S	**NVL Batch Number**	**2109582.00**
Address	PO Box 641172	**TAT**	5 Days **AH** No
	Pullman, WA 99164-1172	**Rush TAT**	
Project Manager	Mr. Matt McKibbin	**Due Date**	6/4/2021 **Time** 9:45 AM
Phone	(509) 335-3041	**Email**	mrmckibbin@wsu.edu
Direct	(509) 335-5311	**Fax**	(509) 730-5548

Project Name/Number: 2021-023138 **Project Location:** WASHINGTON BUILDING

Subcategory PLM Bulk

Item Code ASB-02 EPA 600/R-93-116 Asbestos by PLM <bulk>

Total Number of Samples 44 Rush Samples

	Lab ID	Sample ID	Description	A/R
37	21064312	TSI-01-A		A
38	21064313	TSI-01-B		A
39	21064314	TSI-02-A		A
40	21064315	TSI-02-B		A
41	21064316	TSI-03-A		A
42	21064317	VBBL-01-A		A
43	21064318	DMGRY-01-A		A
44	21064319	GWB-01-A		A

	Print Name	Signature	Company	Date	Time
Sampled by	Client				
Relinquished by	Federal Express				

Office Use Only	Print Name	Signature	Company	Date	Time
Received by	Kelly AuVu		NVL	5/27/21	945
Analyzed by	Akane Yoshikawa		NVL	6/3/21	
Results Called by					
☐ **Faxed** ☐ **Emailed**					

Special Instructions:

Date: 5/27/2021
Time: 12:07 PM
Entered By: Kelly AuVu

NVL LABS
INDUSTRIAL HYGIENE SERVICES
Laboratory | Management | Training

ASBESTOS CHAIN OF CUSTODY

Turn Around Time
- ☐ 1 Hour
- ☐ 2 Hours
- ☐ 4 Hours
- ☐ 24 Hours
- ☐ 2 Days
- ☐ 3 Days
- ☐ 4 Days
- ☑ 5 Days
- ☐ 10 Days

Please call for TAT less than 24 Hours

Company: Washington St. University EH&S
Address: PO Box 641172
Pullman, WA 99164
Phone: 509-335-5604

Project Manager: Matt McKibbin
Cell: (509) 730 - 5548
Email: mrmckibbin@wsu.edu, stephan.gilley@wsu.edu
Fax: ( ) -

Project Name/Number: 2021-023138
Project Location: WASHINGTON BUILDING

- ☐ PCM Air (NIOSH 7400)
- ☑ PLM (EPA 600/R-93-116)
- ☐ PLM Gravimetry (600/R-93-116)
- ☐ Asbestos Friable/Non-Friable (EPA 600/R-93/116)
- ☐ TEM (NIOSH 7402)
- ☐ EPA 400 Points (600/R-93-116)
- ☐ Asbestos in Vermiculite (EPA 600/R-04/004)
- ☐ TEM (AHERA)
- ☐ Other
- ☐ TEM (EPA Level II Modified)
- ☐ EPA 1000Points (600/R-93-116)
- ☐ Asbestos in Sediment (EPA 1900 Points)

Reporting Instructions: email
☐ Call ( ) -
☐ Fax ( ) -
☐ Email: mrmckibbin@wsu.edu stephan.gilley@wsu.edu

Total Number of Samples 124

	Sample ID	Description	A/R
1	SVF-16-A	BRN+TAN+WH SM PEBB PATT/ gray backing	
2	SVF-17-A	TOP LAYER: TAN+CR PEBB PATT/ tan+brn mastic/paper	
3		BOTTOM LAYER: TAN tile/ white mastic/paper	
4	12CT-01-A	12-inch DOT ceil tile/ brown puck mastic	
5	12CT-01-B	12-inch DOT ceil tile/ brown puck mastic/ tan mastic	
6	12CT-02-A	12-inch LARGE ETCH-DOT ceil tile/ brown puck mastic	
7	12CT-02-B	12-inch LARGE ETCH-DOT ceil tile/ brown puck mastic	
8	2X4SCT-01-A	2 ft. by 4 ft. WH MULTI SM DOT susp ceil tile	
9	2X4SCT-01-B	2 ft. by 4 ft. WH MULTI SM DOT susp ceil tile	
10	2X4SCT-02-A	2 ft. by 4 ft. ETCH-PH susp ceil tile	
11	2X4SCT-02-B	2 ft. by 4 ft. ETCH-PH susp ceil tile	
12	2X4SCT-03-A	2 ft. by 4 ft. WH SM HOLE susp ceil tile	
13	2X4SCT-03-B	2 ft. by 4 ft. WH SM HOLE susp ceil tile	
14	2X4SCT-04-A	2 ft. by 4 ft. WH HOLE cell susp ceil tile	
15	2X4SCT-04-B	2 ft. by 4 ft. WH HOLE cell susp ceil tile	

	Print Name	Signature	Company	Date	Time
Sampled by	Stephan Gilley		WSU EH&S	5-19-2021	15:30
Relinquish by	Stephan Gilley		WSU EH&S	5-26-2021	11:30

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	Print Name	Signature	Company	Date	Time
Received by	[illegible]	[illegible]	NVL	5/27/2021	945
Analyzed by					
Called by					
Faxed/Email by					

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- ☐ 10 Days

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Company: Washington St. University EH&S
Address: PO Box 641172, Pullman, WA 99164
Phone: 509-335-5604

Project Manager: Matt McKibbin
Cell: (509) 730 - 5548
Email: mrmckibbin@wsu.edu, stephan.gilley@wsu.edu
Fax: ( ) -

Project Name/Number: 2021-023138
Project Location: WASHINGTON BUILDING

- ☐ PCM Air (NIOSH 7400)
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- ☐ EPA 400 Points (600/R-93-116)
- ☐ Asbestos in Vermiculite (EPA 600/R-04/004)
- ☐ TEM (AHERA)
- ☐ Other
- ☐ TEM (EPA Level II Modified)
- ☐ EPA 1000Points (600/R-93-116)
- ☐ Asbestos in Sediment (EPA 1900 Points)

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☐ Call ( ) -
☐ Fax ( ) -
☐ Email: mrmckibbin@wsu.edu, stephan.gilley@wsu.edu

Total Number of Samples 124

	Sample ID	Description	A/R
1	2X2SCT-01-A	2 ft. by 2 ft. RGH TEXT susp ceil tile	
2	2X2SCT-01-B	2 ft. by 2 ft. RGH TEXT susp ceil tile	
3	4BRNCB-01-A	4-inch BRN cove base/ tan soft mastic	
4	4BRNCB-01-B	4-inch BRN cove base/ tan soft mastic	
5	4TCB-01-A	4-inch TAN cove base/ brown mastic/ tan mastic	
6	4TCB-01-B	4-inch TAN cove base/ brown mastic/ tan mastic	
7	4BLCB-01-A	4-inch BLACK cove base/ tan mastic	
8	4BLCB-01-B	4-inch BLACK cove base/ tan mastic	
9	4DBRNCB-01-A	4-inch DBRN cove base/ brown mastic/ tan mastic	
10	4DBRNCB-01-B	4-inch DBRN cove base/ brown mastic/ tan mastic	
11	4AQCB-01-A	4-inch AQUA cove base/ brown mastic/ tan mastic	
12	6DBRNCB-01-A	6-inch DBRN cove base/ brown mastic	
13	6DBRNCB-01-B	6-inch DBRN cove base/ brown mastic	
14	6GRYCB-01-A	6-inch GRY cove base/ tan mastic	
15	6GRYCB-01-B	6-inch GRY cove base/ brown mastic/ tan mastic	

	Print Name	Signature	Company	Date	Time
Sampled by	Stephan Gilley		WSU EH&S	5-19-2021	15:30
Relinquish by	Stephan Gilley		WSU EH&S	5-26-2021	11:30

Office Use Only

	Print Name	Signature	Company	Date	Time
Received by	Kelly Felix		NVL	5/27/21	9:45
Analyzed by					
Called by					
Faxed/Email by					

NVL LABS
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Project Name/Number: 2021-023138
Project Location: WASHINGTON BUILDING

- ❑ PCM Air (NIOSH 7400)
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- ❑ TEM (AHERA)
- ❑ Other
- ❑ TEM (EPA Level II Modified)
- ❑ EPA 1000Points (600/R-93-116)
- ❑ Asbestos in Sediment (EPA 1900 Points)

Reporting Instructions: email
❑ Call ( ) -
❑ Fax ( ) -
❑ Email: mrmckibbin@wsu.edu stephan.gilley@wsu.edu

Total Number of Samples 124

	Sample ID	Description	A/R
1	6WHCB-01-A	6-inch WH cove base/ tan mastic	
2	6WHCB-01-B	6-inch WH cove base/ tan mastic	
3	6TCB-01-A	6-inch TAN cove base/ yellow mastic	
4	6TCB-01-B	6-inch TAN cove base/ brown mastic	
5	RFSQMT-01-A	Tan mastic (under floor square)	
6	FLGRY-01-A	GRY vinyl flooring/ black adhesive	
7	CAB-01-A	GRY cementiuos board/ black mastic	
8	TSI-01-A	GRY insulation/ white fabric	
9	TSI-01-B	WH insulation/ tan fabric	
10	TSI-02-A	GRY chalky insulation	
11	TSI-02-B	GRY chalky insulation	
12	TSI-03-A	WH chalky soft insulation	
13	VBBL-01-A	BLK brittle vapor barrier	
14	DMGRY-01-A	GRY duct mastic	
15	GWB-01-A	Gypsum wallboard/ joint compound	

	Print Name	Signature	Company	Date	Time
Sampled by	Stephan Gilley		WSU EH&S	5-19-2021	15:30
Relinquish by	Stephan Gilley		WSU EH&S	5-26-2021	11:30

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	Print Name	Signature	Company	Date	Time
Received by	Kellie Fuller		NVL	5/27/2021	945
Analyzed by					
Called by					
Faxed/Email by					

WSU EH&S **Asbestos Sampling Data Sheet**

Building: WASHINGTON BUILD Inspector S. GILLEY Date MAY 2021

HSA	Material	Type (TSI, Surfacing, Misc.)	Estimated Quantity
SUF-16	Brown + light white small pebble pattern sheet vinyl w/ gray backing	MISC.	300 SF

Sample No.	Layering	Sample Location	Friable	Notes
A	Layer 1: sheet vinyl Layer 2: gray backing Layer 3:	224	(YES) NO	BT
	Layer 1: Layer 2: Layer 3:		YES NO	
	Layer 1: Layer 2: Layer 3:		YES NO	
	Layer 1: Layer 2: Layer 3:		YES NO	
	Layer 1: Layer 2: Layer 3:		YES NO	
	Layer 1: Layer 2: Layer 3:		YES NO	
	Layer 1: Layer 2: Layer 3:		YES NO	

Locations 224, 220

Attachment C: Washington Building Good Faith Hazardous Material Survey

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WSU EH&S **Asbestos Sampling Data Sheet**

Building: WASHINGTON BUILD Inspector S. GILLEY Date MAY 2021

HSA	Material	Type (TSI, Surfacing, Misc.)	Estimated Quantity
SVF-17	Tan + Cream pebble pattern sheet vinyl w/ tan + brown mastic (top) Tan tile w/ white mastic (bottom)	MISC.	25 SF

Sample No.	Layering	Sample Location	Friable	Notes
A	Layer 1: sheet vinyl Layer 2: Tan mastic Layer 3: Brown mastic	G25 TOP	YES NO	BT TOP LAYER TAPED
	Layer 1: paper Layer 2: Layer 3:		YES NO	
	Layer 1: sheet vinyl Layer 2: white mastic Layer 3: paper	G25 BOTTOM	YES NO	BT Bottom Layer
	Layer 1: Layer 2: Layer 3:		YES NO	
	Layer 1: Layer 2: Layer 3:		YES NO	
	Layer 1: Layer 2: Layer 3:		YES NO	
	Layer 1: Layer 2: Layer 3:		YES NO	

Locations G 25

Attachment C: Washington Building Good Faith Hazardous Material Survey

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WSU EH&S **Asbestos Sampling Data Sheet**

Building: WASHINGTON BUILD Inspector S. GILLEY Date MAY 2021

HSA	Material	Type (TSI, Surfacing, Misc.)	Estimated Quantity
12CT-01	12-inch DOT ceiling tile w/ brown puck mastic	MISC.	500 SF

Sample No.	Layering	Sample Location	Friable	Notes
A	Layer 1: White ceiling tile Layer 2: Brown puck mastic Layer 3:	G100 north	(YES) / NO	
B	Layer 1: " Layer 2: " Layer 3: Tan mastic	280 SN stairwell	(YES) / NO	
	Layer 1: Layer 2: Layer 3:		YES / NO	
	Layer 1: Layer 2: Layer 3:		YES / NO	
	Layer 1: Layer 2: Layer 3:		YES / NO	
	Layer 1: Layer 2: Layer 3:		YES / NO	
	Layer 1: Layer 2: Layer 3:		YES / NO	

Locations G100 (north end), central stairwell: 1st, 2nd

Attachment C: Washington Building Good Faith Hazardous Material Survey

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WSU EH&S **Asbestos Sampling Data Sheet**

Building: WASHINGTON BUILD Inspector S. GILLEY Date MAY 2021

HSA	Material	Type (TSI, Surfacing, Misc.)	Estimated Quantity
12CT-02	12-inch LARGE ETCH - 2DOT ceiling tile w/ brown puck mastic	MISC	150 SF

Sample No.	Layering	Sample Location	Friable	Notes
A	Layer 1: white ceiling tile Layer 2: Brown puck mastic Layer 3:	G100 north	(YES) NO	
B	Layer 1: Layer 2: Layer 3:	G100 @ G32	(YES) NO	
	Layer 1: Layer 2: Layer 3:		YES NO	
	Layer 1: Layer 2: Layer 3:		YES NO	
	Layer 1: Layer 2: Layer 3:		YES NO	
	Layer 1: Layer 2: Layer 3:		YES NO	
	Layer 1: Layer 2: Layer 3:		YES NO	

Locations G100 north + south ends

Attachment C: Washington Building Good Faith Hazardous Material Survey

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WSU EH&S **Asbestos Sampling Data Sheet**

Building: WASHINGTON BUILD Inspector S. GILLEY Date MAY 2021

HSA	Material	Type (TSI, Surfacing, Misc.)	Estimated Quantity
2x4 SCT-01	2ft. by 4ft. White MULTI-SMALL DOT suspended ceiling tile	Misc.	200 SF

Sample No.	Layering	Sample Location	Friable	Notes
A	Layer 1: White ceiling tile Layer 2: Layer 3:	G 80VW	(YES) NO	
B	Layer 1: Layer 2: Layer 3:	100VE	(YES) NO	
	Layer 1: Layer 2: Layer 3:		YES NO	
	Layer 1: Layer 2: Layer 3:		YES NO	
	Layer 1: Layer 2: Layer 3:		YES NO	
	Layer 1: Layer 2: Layer 3:		YES NO	
	Layer 1: Layer 2: Layer 3:		YES NO	

Locations G 80VW, 100VE

Attachment C: Washington Building Good Faith Hazardous Material Survey

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WSU EH&S **Asbestos Sampling Data Sheet**

Building: WASHINGTON BUILD Inspector S. GILLEY Date MAY 2021

HSA	Material	Type (TSI, Surfacing, Misc.)	Estimated Quantity
2x45CT-02	2 ft. by 4 ft. ETCH-PINHOLE suspended ceiling tile	MISC.	250 SF

Sample No.	Layering	Sample Location	Friable	Notes
A	Layer 1: white ceiling tile Layer 2: Layer 3:	G22	(YES) NO	replacement tile
B	Layer 1: Layer 2: Layer 3:	G60D	(YES) NO	
	Layer 1: Layer 2: Layer 3:		YES NO	
	Layer 1: Layer 2: Layer 3:		YES NO	
	Layer 1: Layer 2: Layer 3:		YES NO	
	Layer 1: Layer 2: Layer 3:		YES NO	
	Layer 1: Layer 2: Layer 3:		YES NO	

Locations G22, G60 suite

Attachment C: Washington Building Good Faith Hazardous Material Survey

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WSU EH&S **Asbestos Sampling Data Sheet**

Building: WASHINGTON BUILD Inspector S. GILLEY Date MAY 2021

HSA	Material	Type (TSI, Surfacing, Misc.)	Estimated Quantity
2x4SCT-03	2ft. by 4ft. white SMALL HOLE suspended ceiling tile	MISC.	2,500 SF

Sample No.	Layering	Sample Location	Friable	Notes
A	Layer 1: white ceiling tile Layer 2: Layer 3:	@ 243	(YES) NO	
B	Layer 1: Layer 2: Layer 3:	217	(YES) NO	
	Layer 1: Layer 2: Layer 3:		YES NO	
	Layer 1: Layer 2: Layer 3:		YES NO	
	Layer 1: Layer 2: Layer 3:		YES NO	
	Layer 1: Layer 2: Layer 3:		YES NO	
	Layer 1: Layer 2: Layer 3:		YES NO	

Locations 2nd floor:

Attachment C: Washington Building Good Faith Hazardous Material Survey

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WSU EH&S **Asbestos Sampling Data Sheet**

Building: WASHINGTON BUILD Inspector S. GILLEY Date MAY 2021

HSA	Material	Type (TSI, Surfacing, Misc.)	Estimated Quantity
2x4/SCT-04	2ft. by 4 ft. white HOLE - CELLULOSE suspended ceiling tile	MISC.	500 SF

Sample No.	Layering	Sample Location	Friable	Notes
A	Layer 1: white ceiling tile Layer 2: yellow insulation Layer 3:	B2	(YES) NO	BT
B	Layer 1: Layer 2: Layer 3:	B1	(YES) NO	BT
	Layer 1: Layer 2: Layer 3:		YES NO	
	Layer 1: Layer 2: Layer 3:		YES NO	
	Layer 1: Layer 2: Layer 3:		YES NO	
	Layer 1: Layer 2: Layer 3:		YES NO	
	Layer 1: Layer 2: Layer 3:		YES NO	

Locations Basement

Attachment C: Washington Building Good Faith Hazardous Material Survey

2109582

WSU EH&S

Asbestos Sampling Data Sheet

Building: WASHINGTON BUILD Inspector S. GILLEY Date MAY 2021

HSA	Material	Type (TSI, Surfacing, Misc.)	Estimated Quantity
2x2SCT-01	2ft. by 2ft. ROUGH TEXTURE suspended ceiling tile	MISC.	17000 SF

Sample No.	Layering	Sample Location	Friable	Notes
A	Layer 1: White rough text. ceil. tile Layer 2: Layer 3:	@ 352	(YES) NO	
B	Layer 1: Layer 2: Layer 3:	@ 323	(YES) NO	
	Layer 1: Layer 2: Layer 3:		YES NO	
	Layer 1: Layer 2: Layer 3:		YES NO	
	Layer 1: Layer 2: Layer 3:		YES NO	
	Layer 1: Layer 2: Layer 3:		YES NO	
	Layer 1: Layer 2: Layer 3:		YES NO	

Locations 3rd floor: ceilings, dominant CT

Attachment C: Washington Building Good Faith Hazardous Material Survey

2109582

WSU EH&S

Asbestos Sampling Data Sheet

Building: WASHINGTON BUILD Inspector S. GILLEY Date MAY 2021

HSA	Material	Type (TSI, Surfacing, Misc.)	Estimated Quantity
4BRNCB-01	4 inch BROWN cove base w/ tan mastic	MISC.	15,000 SF

Sample No.	Layering	Sample Location	Friable	Notes
A	Layer 1: 4-inch BROWN cove base Layer 2: Tan soft mastic Layer 3:	301N	YES (NO)	
B	Layer 1: Layer 2: Layer 3:	@ 350	YES (NO)	
	Layer 1: Layer 2: Layer 3:		YES NO	
	Layer 1: Layer 2: Layer 3:		YES NO	
	Layer 1: Layer 2: Layer 3:		YES NO	
	Layer 1: Layer 2: Layer 3:		YES NO	
	Layer 1: Layer 2: Layer 3:		YES NO	

Locations 3rd Floor: dominant cove base

2109582

WSU EH&S **Asbestos Sampling Data Sheet**

Building: WASHINGTON BUILD Inspector S. GILLEY Date MAY 2021

HSA	Material	Type (TSI, Surfacing, Misc.)	Estimated Quantity
4TCB-01	4-inch TAN cove base w brown + tan mastic	MISC.	200 SF

Sample No.	Layering	Sample Location	Friable	Notes
A	Layer 1: Tan cove base Layer 2: Brown brittle mastic Layer 3: Tan soft mastic	G100SW	YES (NO)	
B	Layer 1: Tan cove base Layer 2: Tan soft mastic Layer 3:	G80 stairs	YES (NO)	
	Layer 1: Layer 2: Layer 3:		YES NO	
	Layer 1: Layer 2: Layer 3:		YES NO	
	Layer 1: Layer 2: Layer 3:		YES NO	
	Layer 1: Layer 2: Layer 3:		YES NO	
	Layer 1: Layer 2: Layer 3:		YES NO	

Locations G80 stairs / G100 SW

Attachment C: Washington Building Good Faith Hazardous Material Survey

2109582

WSU EH&S **Asbestos Sampling Data Sheet**

Building: WASHINGTON BUILD Inspector S. GILLEY Date MAY 2021

HSA	Material	Type (TSI, Surfacing, Misc.)	Estimated Quantity
4BLCB-01	4-inch BLACK cove base w/ tan mastic	MISC.	75 SF

Sample No.	Layering	Sample Location	Friable	Notes
A	Layer 1: Black cove base Layer 2: tan mastic Layer 3:	G80 VW	YES (NO)	
B	Layer 1: Layer 2: Layer 3:	G80VW	YES (NO)	
	Layer 1: Layer 2: Layer 3:		YES NO	
	Layer 1: Layer 2: Layer 3:		YES NO	
	Layer 1: Layer 2: Layer 3:		YES NO	
	Layer 1: Layer 2: Layer 3:		YES NO	
	Layer 1: Layer 2: Layer 3:		YES NO	

Locations G80 VW

Attachment C: Washington Building Good Faith Hazardous Material Survey

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WSU EH&S **Asbestos Sampling Data Sheet**

Building: WASHINGTON BUILD Inspector S. GILLEY Date MAY 2021

HSA	Material	Type (TSI, Surfacing, Misc.)	Estimated Quantity
4DBRNKB-01	4-inch DARK BROWN cove base w/ tan+ brown mastic	MISC.	300 SF

Sample No.	Layering	Sample Location	Friable	Notes
A	Layer 1: Dark brown cove base Layer 2: Brown brittle mastic Layer 3: Tan soft mastic	G22	YES (NO)	
B	Layer 1: Layer 2: Layer 3:	@169A	YES (NO)	169 suite
	Layer 1: Layer 2: Layer 3:		YES NO	
	Layer 1: Layer 2: Layer 3:		YES NO	
	Layer 1: Layer 2: Layer 3:		YES NO	
	Layer 1: Layer 2: Layer 3:		YES NO	
	Layer 1: Layer 2: Layer 3:		YES NO	

Locations G22, @169 suite

Attachment C: Washington Building Good Faith Hazardous Material Survey

WSU EH&S **Asbestos Sampling Data Sheet**

Building: WASHINGTON BUILD Inspector S. GILLEY Date MAY 2021

HSA	Material	Type (TSI, Surfacing, Misc.)	Estimated Quantity
4AQCB-01	4-inch AQUA cove base w/ tan + brown mastic	MISC.	50 SF

Sample No.	Layering	Sample Location	Friable	Notes
A	Layer 1: Aqua cove base Layer 2: Brown brittle mastic Layer 3: Tan soft mastic	G100 ramp	YES (NO)	
	Layer 1: Layer 2: Layer 3:		YES NO	
	Layer 1: Layer 2: Layer 3:		YES NO	
	Layer 1: Layer 2: Layer 3:		YES NO	
	Layer 1: Layer 2: Layer 3:		YES NO	
	Layer 1: Layer 2: Layer 3:		YES NO	
	Layer 1: Layer 2: Layer 3:		YES NO	

Locations G100 ramp

Attachment C: Washington Building Good Faith Hazardous Material Survey

2109582

WSU EH&S **Asbestos Sampling Data Sheet**

Building: WASHINGTON BUILD Inspector S. GILLEY Date MAY 2021

HSA	Material	Type (TSI, Surfacing, Misc.)	Estimated Quantity
GDBRNCB-01	6-inch DARK BROWN cove base w/ brown mastic	MISC.	750 sf

Sample No.	Layering	Sample Location	Friable	Notes
A	Layer 1: Dark brown cove base Layer 2: Brown mastic Layer 3:	@ 141	YES (NO)	
B	Layer 1: Layer 2: Layer 3:	@ 157	YES (NO)	
	Layer 1: Layer 2: Layer 3:		YES NO	
	Layer 1: Layer 2: Layer 3:		YES NO	
	Layer 1: Layer 2: Layer 3:		YES NO	
	Layer 1: Layer 2: Layer 3:		YES NO	
	Layer 1: Layer 2: Layer 3:		YES NO	

Locations SW area of 1st floor

Attachment C: Washington Building Good Faith Hazardous Material Survey

2109582

WSU EH&S **Asbestos Sampling Data Sheet**

Building: WASHINGTON BUILD Inspector S. GILLEY Date MAY 2021

HSA	Material	Type (TSI, Surfacing, Misc.)	Estimated Quantity
6GRYCB-01	6-inch GRAY cove base w/ brown + tan mastic	MISC	4,000 SF

Sample No.	Layering	Sample Location	Friable	Notes
A	Layer 1: Gray cove base Layer 2: Tan mastic Layer 3:	@ 216 E	YES (NO)	
B	Layer 1: Gray cove base Layer 2: Brown brittle mastic Layer 3: Tan soft mastic	@ 221	YES (NO)	
	Layer 1: Layer 2: Layer 3:		YES NO	
	Layer 1: Layer 2: Layer 3:		YES NO	
	Layer 1: Layer 2: Layer 3:		YES NO	
	Layer 1: Layer 2: Layer 3:		YES NO	
	Layer 1: Layer 2: Layer 3:		YES NO	

Locations Access center, north half 2nd floor

Attachment C: Washington Building Good Faith Hazardous Material Survey

2109582

WSU EH&S **Asbestos Sampling Data Sheet**

Building: WASHINGTON BUILD Inspector S. GILLEY Date MAY 2021

HSA	Material	Type (TSI, Surfacing, Misc.)	Estimated Quantity
GWHCB-01	6-inch WHITE cove base w/ tan mastic		1,500 SF

Sample No.	Layering	Sample Location	Friable	Notes
A	Layer 1: White cove base Layer 2: Tan mastic Layer 3:	104	YES (NO)	
B	Layer 1: Layer 2: Layer 3:	107	YES (NO)	
	Layer 1: Layer 2: Layer 3:		YES NO	
	Layer 1: Layer 2: Layer 3:		YES NO	
	Layer 1: Layer 2: Layer 3:		YES NO	
	Layer 1: Layer 2: Layer 3:		YES NO	
	Layer 1: Layer 2: Layer 3:		YES NO	

Locations 100 hallway + offices in area

2109582

WSU EH&S **Asbestos Sampling Data Sheet**

Building: WASHINGTON BUILD Inspector S. GILLEY Date MAY 2021

HSA	Material	Type (TSI, Surfacing, Misc.)	Estimated Quantity
6TCB-01	6-inch TAN cove base w/ yellow + brown mastic	MISC.	1,000 SF

Sample No.	Layering	Sample Location	Friable	Notes
A	Layer 1: Tan cove base Layer 2: Yellow mastic Layer 3:	B4	YES (NO)	
B	Layer 1: Tan cove base Layer 2: Brown mastic Layer 3:	C253	YES (NO)	
	Layer 1: Layer 2: Layer 3:		YES NO	
	Layer 1: Layer 2: Layer 3:		YES NO	
	Layer 1: Layer 2: Layer 3:		YES NO	
	Layer 1: Layer 2: Layer 3:		YES NO	
	Layer 1: Layer 2: Layer 3:		YES NO	

Locations Basement + 2nd floor, south hallway

Attachment C: Washington Building Good Faith Hazardous Material Survey

2109582

WSU EH&S

Asbestos Sampling Data Sheet

Building: WASHINGTON BUILD Inspector S. GILLEY Date MAY 2021

HSA	Material	Type (TSI, Surfacing, Misc.)	Estimated Quantity
RFSQMT-01	TAN mastic under rubber floor squares	MISC.	25 SF

Sample No.	Layering	Sample Location	Friable	Notes
A	Layer 1: Tan mastic Layer 2: Layer 3:	G10-elevator	YES (NO)	under floor squares
	Layer 1: Layer 2: Layer 3:		YES NO	
	Layer 1: Layer 2: Layer 3:		YES NO	
	Layer 1: Layer 2: Layer 3:		YES NO	
	Layer 1: Layer 2: Layer 3:		YES NO	
	Layer 1: Layer 2: Layer 3:		YES NO	
	Layer 1: Layer 2: Layer 3:		YES NO	

Locations G10-elevator floor

Attachment C: Washington Building Good Faith Hazardous Material Survey

2109582

WSU EH&S

Asbestos Sampling Data Sheet

Building: WASHINGTON BUILD Inspector S. GILLEY Date MAY 2021

HSA	Material	Type (TSI, Surfacing, Misc.)	Estimated Quantity
FLGRY-01	Gray vinyl flooring w/ black adhesive	Misc.	25 SF

Sample No.	Layering	Sample Location	Friable	Notes
A	Layer 1: Gray vinyl Layer 2: Black adhesive Layer 3: -	101-elevator NW corner	YES (NO)	
	Layer 1: Layer 2: Layer 3:		YES NO	
	Layer 1: Layer 2: Layer 3:		YES NO	
	Layer 1: Layer 2: Layer 3:		YES NO	
	Layer 1: Layer 2: Layer 3:		YES NO	
	Layer 1: Layer 2: Layer 3:		YES NO	
	Layer 1: Layer 2: Layer 3:		YES NO	

Locations NW. corner elevator – 101 elev.

Attachment C: Washington Building Good Faith Hazardous Material Survey

2109582

WSU EH&S

Asbestos Sampling Data Sheet

Building: WASHINGTON BUILD Inspector S. GILLEY Date MAY 2021

HSA	Material	Type (TSI, Surfacing, Misc.)	Estimated Quantity
CAB-01	Gray cementious material w/ black mastic	MISC.	250 SF

Sample No.	Layering	Sample Location	Friable	Notes
A	Layer 1: Gray cement Layer 2: Black mastic Layer 3:	480SN	YES / NO	at edge of stairwell and room
	Layer 1: Layer 2: Layer 3:		YES / NO	
	Layer 1: Layer 2: Layer 3:		YES / NO	
	Layer 1: Layer 2: Layer 3:		YES / NO	
	Layer 1: Layer 2: Layer 3:		YES / NO	
	Layer 1: Layer 2: Layer 3:		YES / NO	
	Layer 1: Layer 2: Layer 3:		YES / NO	

Locations 480SN – stairwell, edge of 401

Attachment C: Washington Building Good Faith Hazardous Material Survey

2109582

WSU EH&S

Asbestos Sampling Data Sheet

Building: WASHINGTON BUILD Inspector S. GILLEY Date MAY 2021

HSA	Material	Type (TSI, Surfacing, Misc.)	Estimated Quantity
TSI-01	4-inch line w/ vertical pipe - water	TSI	1,000 LF 100 EA

Sample No.	Layering	Sample Location	Friable	Notes
A	Layer 1: Gray insulation Layer 2: White fabric Layer 3:	G100SS	(YES) NO	4-inch line
B	Layer 1: White insulation Layer 2: Tan fabric Layer 3:	G100SS	YES NO	vertical pipe
	Layer 1: Layer 2: Layer 3:		YES NO	
	Layer 1: Layer 2: Layer 3:		YES NO	
	Layer 1: Layer 2: Layer 3:		YES NO	
	Layer 1: Layer 2: Layer 3:		YES NO	
	Layer 1: Layer 2: Layer 3:		YES NO	

Locations G100SS - stairwell, Ground floor; Basement - B6A

Attachment C: Washington Building Good Faith Hazardous Material Survey

2109582

WSU EH&S **Asbestos Sampling Data Sheet**

Building: WASHINGTON BUILD Inspector S. GILLEY Date MAY 2021

HSA	Material	Type (TSI, Surfacing, Misc.)	Estimated Quantity
TSI-02	Water pressure Vessels vertical tanks - Gray insulation	TSI	25 SF (EA)

Sample No.	Layering	Sample Location	Friable	Notes
A	Layer 1: Gray chalky insulation Layer 2: Layer 3:	G50 mech rm.	(YES) NO	South vessel
B	Layer 1: Layer 2: Layer 3:	G50 mech. rm.	(YES) NO	North vessel
	Layer 1: Layer 2: Layer 3:		YES NO	
	Layer 1: Layer 2: Layer 3:		YES NO	
	Layer 1: Layer 2: Layer 3:		YES NO	
	Layer 1: Layer 2: Layer 3:		YES NO	
	Layer 1: Layer 2: Layer 3:		YES NO	

Locations G50 - mechanical room

Attachment C: Washington Building Good Faith Hazardous Material Survey

2109582

WSU EH&S

Asbestos Sampling Data Sheet

Building: WASHINGTON BUILD Inspector S. GILLEY Date MAY 2021

HSA	Material	Type (TSI, Surfacing, Misc.)	Estimated Quantity
TSI-03	Black canvas-wrap pipe w/ white insulation	TSI	~3 LF

Sample No.	Layering	Sample Location	Friable	Notes
A	Layer 1: white chalky soft insulation Layer 2: Layer 3:	480SN	(YES) NO	@ landing on stairs vertical pipe
	Layer 1: Layer 2: Layer 3:		YES NO	
	Layer 1: Layer 2: Layer 3:		YES NO	
	Layer 1: Layer 2: Layer 3:		YES NO	
	Layer 1: Layer 2: Layer 3:		YES NO	
	Layer 1: Layer 2: Layer 3:		YES NO	
	Layer 1: Layer 2: Layer 3:		YES NO	

Locations 480SN – mechanical penthouse

2109582

WSU EH&S

Asbestos Sampling Data Sheet

Building: WASHINGTON BUILD Inspector S. GILLEY Date MAY 2021

HSA	Material	Type (TSI, Surfacing, Misc.)	Estimated Quantity
NBBL-01	Black brittle vapor barrier on concrete wall	MISC.	100 SF

Sample No.	Layering	Sample Location	Friable	Notes
A	Layer 1: Black asphaltic coating Layer 2: Layer 3:	G6A - entrance	YES (NO)	upper wall before ramp
	Layer 1: Layer 2: Layer 3:		YES NO	
	Layer 1: Layer 2: Layer 3:		YES NO	
	Layer 1: Layer 2: Layer 3:		YES NO	
	Layer 1: Layer 2: Layer 3:		YES NO	
	Layer 1: Layer 2: Layer 3:		YES NO	
	Layer 1: Layer 2: Layer 3:		YES NO	

Locations G 6A

Attachment C: Washington Building Good Faith Hazardous Material Survey

2109582

WSU EH&S

Asbestos Sampling Data Sheet

Building: WASHINGTON BUILD Inspector S. GILLEY Date MAY 2021

HSA	Material	Type (TSI, Surfacing, Misc.)	Estimated Quantity
DMGRY-01	Gray rubbery duct mastic	MISC.	100 SF

Sample No.	Layering	Sample Location	Friable	Notes
A	Layer 1: Gray rubbery mastic Layer 2: Layer 3:	401 east end	YES (NO)	square ducting
	Layer 1: Layer 2: Layer 3:		YES NO	
	Layer 1: Layer 2: Layer 3:		YES NO	
	Layer 1: Layer 2: Layer 3:		YES NO	
	Layer 1: Layer 2: Layer 3:		YES NO	
	Layer 1: Layer 2: Layer 3:		YES NO	
	Layer 1: Layer 2: Layer 3:		YES NO	

Locations 401 - Mechanical room

Attachment C: Washington Building Good Faith Hazardous Material Survey

2109582

WSU EH&S **Asbestos Sampling Data Sheet**

Building: WASHINGTON BUILD Inspector S. GILLEY Date MAY 2021

HSA	Material	Type (TSI, Surfacing, Misc.)	Estimated Quantity
GWB-01	Gypsum wallboard / joint compound	Misc.	40,000 sf

Sample No.	Layering	Sample Location	Friable	Notes
A	Layer 1: white GWB Layer 2: white joint compound Layer 3:	104	YES (NO)	
B	Layer 1: " Layer 2: " Layer 3: brown mastic	@ 169A	YES (NO)	
C	Layer 1: Layer 2: Layer 3:	100WR 139	YES (NO)	
D	Layer 1: Layer 2: Layer 3:	145	YES (NO)	
E	Layer 1: Layer 2: Layer 3:	200VW corr.	YES (NO)	
F	Layer 1: Layer 2: Layer 3:	@ 221	YES (NO)	
G	Layer 1: Layer 2: Layer 3:	G 60D	YES (NO)	

Locations Ground floor, 1st floor, 2nd floor

Attachment C: Washington Building Good Faith Hazardous Material Survey

2109582

June 3, 2021

Matt McKibbin
Washington State University EH&S
PO Box 641172
Pullman, WA 99164-1172

RE: Bulk Asbestos Fiber Analysis; NVL Batch # 2109585.00

Client Project: 2021-023138
Location: WASHINGTON BUILDING

Dear Mr. McKibbin,

Enclosed please find test results for the 35 sample(s) submitted to our laboratory for analysis on 5/27/2021.

Examination of these samples was conducted for the presence of identifiable asbestos fibers using polarized light microscopy (PLM) with dispersion staining in accordance with **U. S. EPA 40 CFR Appendix E to Subpart E of Part 763**, Interim Method for the Determination of Asbestos in Bulk Insulation Samples and **EPA 600/R-93/116**, Method for the Determination of Asbestos in Bulk Building Materials.

For samples containing more than one separable layer of materials, the report will include findings for each layer (labeled Layer 1 and Layer 2, etc. for each individual layer). The asbestos concentration in the sample is determined by calibrated visual estimation.

For those samples with asbestos concentrations between 1 and 10 percent based on visual estimation, the EPA recommends a procedure known as point counting (NESHAPS, 40 CFR Part 61). Point counting is a statistically more accurate means of quantification for samples with low concentrations of asbestos.

The detection limit for the calibrated visual estimation is <1%, 400 point counts is 0.25% and 1000 point counts is 0.1%

Samples are archived for two weeks following analysis. Samples that are not retrieved by the client are discarded after two weeks.

Thank you for using our laboratory services. Please do not hesitate to call if there is anything further we can assist you with.

Sincerely,

Nick Ly, Technical Director

Lab Code: 102063-0

Enc.: Sample Results

Phone: 206 547.0100 | Fax: 206 634.1936 | Toll Free: 1.888.NVL.LABS (685.5227)
4708 Aurora Avenue North | Seattle, WA 98103-6516

Bulk Asbestos Fibers Analysis

By Polarized Light Microscopy

Client: Washington State University EH&S
Address: PO Box 641172
Pullman, WA 99164-1172

Attention: Mr. Matt McKibbin
Project Location: WASHINGTON BUILDING

Batch #: 2109585.00
Client Project #: 2021-023138
Date Received: 5/27/2021
Samples Received: 35
Samples Analyzed: 35
Method: EPA/600/R-93/116

Lab ID: 21064326 **Client Sample #: GWB-01-B**

Location: WASHINGTON BUILDING

Comments: Unsure of correct layer sequence.

Layer 1 of 3 **Description:** White compacted powdery material

Non-Fibrous Materials:	Other Fibrous Materials:%	**Asbestos Type: %**
Calcareous binder, Calcareous particles	None Detected ND	**None Detected ND**

Layer 2 of 3 **Description:** Brown brittle mastic

Non-Fibrous Materials:	Other Fibrous Materials:%	**Asbestos Type: %**
Mastic/Binder, Fine particles	Wollastonite 3%	**None Detected ND**

Layer 3 of 3 **Description:** White chalky material with paper and paint

Non-Fibrous Materials:	Other Fibrous Materials:%	**Asbestos Type: %**
Gypsum/Binder, Fine grains, Fine particles	Cellulose 23%	**None Detected ND**
Paint	Glass fibers 3%	

Lab ID: 21064327 **Client Sample #: GWB-01-C**

Location: WASHINGTON BUILDING

Comments: No mastic present.

Layer 1 of 2 **Description:** White compacted powdery material

Non-Fibrous Materials:	Other Fibrous Materials:%	**Asbestos Type: %**
Calcareous binder, Calcareous particles	Cellulose <1%	**None Detected ND**

Layer 2 of 2 **Description:** White chalky material with paper

Non-Fibrous Materials:	Other Fibrous Materials:%	**Asbestos Type: %**
Gypsum/Binder, Fine grains, Fine particles	Cellulose 25%	**None Detected ND**
	Glass fibers 3%	

Sampled by: Client
Analyzed by: Hilary Crumley **Date:** 06/03/2021
Reviewed by: Nick Ly **Date:** 06/03/2021



Nick Ly, Technical Director

Note: If samples are not homogeneous, then subsamples of the components were analyzed separately. All bulk samples are analyzed using both EPA 600/R-93/116 and 600/M4-82-020 Methods with the following measurement uncertainties for the reported % Asbestos (1%=0-3%, 5%=1-9%, 10%=5-15%, 20%=10-30%, 50%=40-60%). This report relates only to the items tested. If sample was not collected by NVL personnel, then the accuracy of the results is limited by the methodology and acuity of the sample collector. This report shall not be reproduced except in full, without written approval of NVL Laboratories, Inc. It shall not be used to claim product endorsement by NVLAP or any other agency of the US Government

Bulk Asbestos Fibers Analysis

By Polarized Light Microscopy

Client: Washington State University EH&S
Address: PO Box 641172
Pullman, WA 99164-1172

Attention: Mr. Matt McKibbin
Project Location: WASHINGTON BUILDING

Batch #: 2109585.00
Client Project #: 2021-023138
Date Received: 5/27/2021
Samples Received: 35
Samples Analyzed: 35
Method: EPA/600/R-93/116

Lab ID: 21064328 **Client Sample #: GWB-01-D**

Location: WASHINGTON BUILDING
Comments: No mastic present.

Layer 1 of 2 **Description:** White compacted powdery material

Non-Fibrous Materials:	Other Fibrous Materials:%	**Asbestos Type: %**
Calcareous binder, Calcareous particles	Cellulose <1%	**None Detected ND**

Layer 2 of 2 **Description:** White chalky material with paper

Non-Fibrous Materials:	Other Fibrous Materials:%	**Asbestos Type: %**
Gypsum/Binder, Fine grains, Fine particles	Cellulose 24%	**None Detected ND**
	Glass fibers 4%	

Lab ID: 21064329 **Client Sample #: GWB-01-E**

Location: WASHINGTON BUILDING
Comments: No mastic present.

Layer 1 of 2 **Description:** White compacted powdery material with paint

Non-Fibrous Materials:	Other Fibrous Materials:%	**Asbestos Type: %**
Calcareous binder, Calcareous particles, Paint	None Detected ND	**None Detected ND**

Layer 2 of 2 **Description:** Off-white chalky material with paper

Non-Fibrous Materials:	Other Fibrous Materials:%	**Asbestos Type: %**
Gypsum/Binder, Fine grains, Fine particles	Cellulose 25%	**None Detected ND**
	Glass fibers 3%	

Lab ID: 21064330 **Client Sample #: GWB-01-F**

Location: WASHINGTON BUILDING
Comments: No mastic present.

Sampled by: Client
Analyzed by: Hilary Crumley **Date:** 06/03/2021
Reviewed by: Nick Ly **Date:** 06/03/2021



Nick Ly, Technical Director

Note: If samples are not homogeneous, then subsamples of the components were analyzed separately. All bulk samples are analyzed using both EPA 600/R-93/116 and 600/M4-82-020 Methods with the following measurement uncertainties for the reported % Asbestos (1%=0-3%, 5%=1-9%, 10%=5-15%, 20%=10-30%, 50%=40-60%). This report relates only to the items tested. If sample was not collected by NVL personnel, then the accuracy of the results is limited by the methodology and acuity of the sample collector. This report shall not be reproduced except in full, without written approval of NVL Laboratories, Inc. It shall not be used to claim product endorsement by NVLAP or any other agency of the US Government

Bulk Asbestos Fibers Analysis

By Polarized Light Microscopy

Client: Washington State University EH&S
Address: PO Box 641172
Pullman, WA 99164-1172

Attention: Mr. Matt McKibbin
Project Location: WASHINGTON BUILDING

Batch #: 2109585.00
Client Project #: 2021-023138
Date Received: 5/27/2021
Samples Received: 35
Samples Analyzed: 35
Method: EPA/600/R-93/116

Layer 1 of 2	**Description:** White compacted powdery material with paint			
	Non-Fibrous Materials:	Other Fibrous Materials:%		**Asbestos Type: %**
	Calcareous binder, Calcareous particles, Paint	Cellulose	<1%	**None Detected ND**
Layer 2 of 2	**Description:** Thin off-white chalky material with paper			
	Non-Fibrous Materials:	Other Fibrous Materials:%		**Asbestos Type: %**
	Gypsum/Binder, Fine grains, Fine particles	Cellulose	26%	**None Detected ND**
		Glass fibers	3%	

Lab ID: 21064331 **Client Sample #: GWB-01-G**

Location: WASHINGTON BUILDING

Comments: No mastic present.

Layer 1 of 3	**Description:** Thin white compacted powdery material with paint			
	Non-Fibrous Materials:	Other Fibrous Materials:%		**Asbestos Type: %**
	Calcareous binder, Calcareous particles, Paint	None Detected	ND	**None Detected ND**
Layer 2 of 3	**Description:** Thin white compacted powdery material with paper			
	Non-Fibrous Materials:	Other Fibrous Materials:%		**Asbestos Type: %**
	Calcareous binder, Calcareous particles	Cellulose	46%	**None Detected ND**
Layer 3 of 3	**Description:** Thin off-white chalky material with paper			
	Non-Fibrous Materials:	Other Fibrous Materials:%		**Asbestos Type: %**
	Gypsum/Binder, Fine grains, Fine particles	Cellulose	25%	**None Detected ND**
		Glass fibers	3%	

Lab ID: 21064332 **Client Sample #: GWB-01-H**

Location: WASHINGTON BUILDING

Layer 1 of 2	**Description:** Trace white compacted powdery material			
	Non-Fibrous Materials:	Other Fibrous Materials:%		**Asbestos Type: %**
	Calcareous binder, Calcareous particles	Cellulose	<1%	**None Detected ND**

Sampled by: Client
Analyzed by: Hilary Crumley **Date:** 06/03/2021
Reviewed by: Nick Ly **Date:** 06/03/2021



Nick Ly, Technical Director

Note: If samples are not homogeneous, then subsamples of the components were analyzed separately. All bulk samples are analyzed using both EPA 600/R-93/116 and 600/M4-82-020 Methods with the following measurement uncertainties for the reported % Asbestos (1%=0-3%, 5%=1-9%, 10%=5-15%, 20%=10-30%, 50%=40-60%). This report relates only to the items tested. If sample was not collected by NVL personnel, then the accuracy of the results is limited by the methodology and acuity of the sample collector. This report shall not be reproduced except in full, without written approval of NVL Laboratories, Inc. It shall not be used to claim product endorsement by NVLAP or any other agency of the US Government

Bulk Asbestos Fibers Analysis

By Polarized Light Microscopy

Client: Washington State University EH&S
Address: PO Box 641172
Pullman, WA 99164-1172

Attention: Mr. Matt McKibbin
Project Location: WASHINGTON BUILDING

Batch #: 2109585.00
Client Project #: 2021-023138
Date Received: 5/27/2021
Samples Received: 35
Samples Analyzed: 35
Method: EPA/600/R-93/116

Layer 2 of 2	**Description:** Off-white chalky material with paper			
	Non-Fibrous Materials:	Other Fibrous Materials:%		**Asbestos Type: %**
	Gypsum/Binder, Fine grains, Fine particles	Cellulose	22%	**None Detected ND**
		Glass fibers	4%	

Lab ID: 21064333 **Client Sample #: GWB-02-A**

Location: WASHINGTON BUILDING

Layer 1 of 2	**Description:** White compacted powdery material with paper			
	Non-Fibrous Materials:	Other Fibrous Materials:%		**Asbestos Type: %**
	Calcareous binder, Calcareous particles	Cellulose	43%	**None Detected ND**
Layer 2 of 2	**Description:** White chalky material with paper			
	Non-Fibrous Materials:	Other Fibrous Materials:%		**Asbestos Type: %**
	Gypsum/Binder, Fine grains, Fine particles	Cellulose	24%	**None Detected ND**
		Glass fibers	3%	

Lab ID: 21064334 **Client Sample #: GWB-02-B**

Location: WASHINGTON BUILDING

Layer 1 of 3	**Description:** White compacted powdery material			
	Non-Fibrous Materials:	Other Fibrous Materials:%		**Asbestos Type: %**
	Calcareous binder, Calcareous particles	None Detected	ND	**None Detected ND**
Layer 2 of 3	**Description:** White compacted powdery material with paper			
	Non-Fibrous Materials:	Other Fibrous Materials:%		**Asbestos Type: %**
	Calcareous binder, Calcareous particles	Cellulose	45%	**None Detected ND**
Layer 3 of 3	**Description:** Thin white chalky material with paper			
	Non-Fibrous Materials:	Other Fibrous Materials:%		**Asbestos Type: %**
	Gypsum/Binder, Fine grains, Fine particles	Cellulose	26%	**None Detected ND**

Sampled by: Client
Analyzed by: Hilary Crumley **Date:** 06/03/2021
Reviewed by: Nick Ly **Date:** 06/03/2021



Nick Ly, Technical Director

Note: If samples are not homogeneous, then subsamples of the components were analyzed separately. All bulk samples are analyzed using both EPA 600/R-93/116 and 600/M4-82-020 Methods with the following measurement uncertainties for the reported % Asbestos (1%=0-3%, 5%=1-9%, 10%=5-15%, 20%=10-30%, 50%=40-60%). This report relates only to the items tested. If sample was not collected by NVL personnel, then the accuracy of the results is limited by the methodology and acuity of the sample collector. This report shall not be reproduced except in full, without written approval of NVL Laboratories, Inc. It shall not be used to claim product endorsement by NVLAP or any other agency of the US Government

Bulk Asbestos Fibers Analysis

By Polarized Light Microscopy

Client: Washington State University EH&S
Address: PO Box 641172
Pullman, WA 99164-1172

Attention: Mr. Matt McKibbin
Project Location: WASHINGTON BUILDING

Batch #: 2109585.00
Client Project #: 2021-023138
Date Received: 5/27/2021
Samples Received: 35
Samples Analyzed: 35
Method: EPA/600/R-93/116

		Glass fibers	2%	

Lab ID: 21064335 **Client Sample #: PLAS-01-A**
Location: WASHINGTON BUILDING

Layer 1 of 2 **Description:** Thin off-white compacted powdery material with layered paint

Non-Fibrous Materials:	Other Fibrous Materials:	%	**Asbestos Type: %**
Calcareous binder, Calcareous particles, Paint	None Detected	ND	**None Detected ND**

Layer 2 of 2 **Description:** Trace white compacted powdery material with layered paint

Non-Fibrous Materials:	Other Fibrous Materials:	%	**Asbestos Type: %**
Calcareous binder, Calcareous particles, Paint	None Detected	ND	**None Detected ND**

Lab ID: 21064336 **Client Sample #: PLAS-01-B**
Location: WASHINGTON BUILDING

Layer 1 of 3 **Description:** Thin white crumbly material with layered paint

Non-Fibrous Materials:	Other Fibrous Materials:	%	**Asbestos Type: %**
Binder/Filler, Fine particles, Paint	None Detected	ND	**None Detected ND**

Layer 2 of 3 **Description:** White crumbly material with paint

Non-Fibrous Materials:	Other Fibrous Materials:	%	**Asbestos Type: %**
Binder/Filler, Fine particles, Paint	None Detected	ND	**None Detected ND**

Layer 3 of 3 **Description:** Beige crumbly material with debris

Non-Fibrous Materials:	Other Fibrous Materials:	%	**Asbestos Type: %**
Binder/Filler, Fine particles, Mica	Cellulose	3%	**None Detected ND**
Fine grains, Foamed glass, Rust			

Lab ID: 21064337 **Client Sample #: PLAS-01-C**
Location: WASHINGTON BUILDING

Sampled by: Client
Analyzed by: Hilary Crumley **Date:** 06/03/2021
Reviewed by: Nick Ly **Date:** 06/03/2021

Nick Ly, Technical Director

Note: If samples are not homogeneous, then subsamples of the components were analyzed separately. All bulk samples are analyzed using both EPA 600/R-93/116 and 600/M4-82-020 Methods with the following measurement uncertainties for the reported % Asbestos (1%=0-3%, 5%=1-9%, 10%=5-15%, 20%=10-30%, 50%=40-60%). This report relates only to the items tested. If sample was not collected by NVL personnel, then the accuracy of the results is limited by the methodology and acuity of the sample collector. This report shall not be reproduced except in full, without written approval of NVL Laboratories, Inc. It shall not be used to claim product endorsement by NVLAP or any other agency of the US Government

Bulk Asbestos Fibers Analysis

By Polarized Light Microscopy

Client: Washington State University EH&S
Address: PO Box 641172
Pullman, WA 99164-1172

Attention: Mr. Matt McKibbin
Project Location: WASHINGTON BUILDING

Batch #: 2109585.00
Client Project #: 2021-023138
Date Received: 5/27/2021
Samples Received: 35
Samples Analyzed: 35
Method: EPA/600/R-93/116

Layer 1 of 2	**Description:** White crumbly material with layered paint			
	Non-Fibrous Materials:	Other Fibrous Materials:	%	**Asbestos Type: %**
	Binder/Filler, Fine particles, Paint	None Detected	ND	**None Detected ND**
Layer 2 of 2	**Description:** Beige crumbly material			
	Non-Fibrous Materials:	Other Fibrous Materials:	%	**Asbestos Type: %**
	Binder/Filler, Fine particles, Mica	Cellulose	2%	**Actinolite <1%**
	Fine grains, Foamed glass			

Lab ID: 21064338 **Client Sample #: PLAS-02-A**
Location: WASHINGTON BUILDING

Layer 1 of 1	**Description:** Beige lumpy material with paint			
	Non-Fibrous Materials:	Other Fibrous Materials:	%	**Asbestos Type: %**
	Binder/Filler, Mica, Paint	None Detected	ND	**Chrysotile 17%**

Lab ID: 21064339 **Client Sample #: PLAS-02-B**
Location: WASHINGTON BUILDING

Layer 1 of 1	**Description:** Beige lumpy material with paint			
	Non-Fibrous Materials:	Other Fibrous Materials:	%	**Asbestos Type: %**
	Binder/Filler, Mica, Paint	None Detected	ND	**Chrysotile 18%**

Lab ID: 21064340 **Client Sample #: PLAS-02-C**
Location: WASHINGTON BUILDING

Layer 1 of 1	**Description:** White crumbly material with paint			
	Non-Fibrous Materials:	Other Fibrous Materials:	%	**Asbestos Type: %**
	Binder/Filler, Fine particles, Perlite	None Detected	ND	**None Detected ND**
	Paint			

Sampled by: Client
Analyzed by: Hilary Crumley **Date:** 06/03/2021
Reviewed by: Nick Ly **Date:** 06/03/2021

Nick Ly, Technical Director

Note: If samples are not homogeneous, then subsamples of the components were analyzed separately. All bulk samples are analyzed using both EPA 600/R-93/116 and 600/M4-82-020 Methods with the following measurement uncertainties for the reported % Asbestos (1%=0-3%, 5%=1-9%, 10%=5-15%, 20%=10-30%, 50%=40-60%). This report relates only to the items tested. If sample was not collected by NVL personnel, then the accuracy of the results is limited by the methodology and acuity of the sample collector. This report shall not be reproduced except in full, without written approval of NVL Laboratories, Inc. It shall not be used to claim product endorsement by NVLAP or any other agency of the US Government

Bulk Asbestos Fibers Analysis

By Polarized Light Microscopy

Client: Washington State University EH&S
Address: PO Box 641172
Pullman, WA 99164-1172

Attention: Mr. Matt McKibbin
Project Location: WASHINGTON BUILDING

Batch #: 2109585.00
Client Project #: 2021-023138
Date Received: 5/27/2021
Samples Received: 35
Samples Analyzed: 35
Method: EPA/600/R-93/116

Lab ID: 21064341 **Client Sample #: PLAS-03-A**
Location: WASHINGTON BUILDING

Layer 1 of 1 **Description:** White crumbly material with layered paint and debris

Non-Fibrous Materials:	Other Fibrous Materials:%	**Asbestos Type: %**
Binder/Filler, Fine particles, Paint	Cellulose <1%	**None Detected ND**
Mineral grains, Debris		

Lab ID: 21064342 **Client Sample #: PLAS-03-B**
Location: WASHINGTON BUILDING

Layer 1 of 1 **Description:** Loose white crumbly material with paint and debris

Non-Fibrous Materials:	Other Fibrous Materials:%	**Asbestos Type: %**
Binder/Filler, Fine particles, Paint	Hair <1%	**None Detected ND**
Mineral grains, Debris		

Lab ID: 21064343 **Client Sample #: PLAS-03-C**
Location: WASHINGTON BUILDING

Layer 1 of 1 **Description:** Loose white crumbly material with layered paint

Non-Fibrous Materials:	Other Fibrous Materials:%	**Asbestos Type: %**
Binder/Filler, Fine particles, Paint	None Detected ND	**None Detected ND**
Mineral grains		

Lab ID: 21064344 **Client Sample #: DMT-01-A**
Location: WASHINGTON BUILDING

Layer 1 of 1 **Description:** Tan soft mastic with debris

Non-Fibrous Materials:	Other Fibrous Materials:%	**Asbestos Type: %**
Mastic/Binder, Fine particles, Debris	Cellulose <1%	**Chrysotile 3%**

Sampled by: Client
Analyzed by: Hilary Crumley **Date:** 06/03/2021
Reviewed by: Nick Ly **Date:** 06/03/2021

Nick Ly, Technical Director

Note: If samples are not homogeneous, then subsamples of the components were analyzed separately. All bulk samples are analyzed using both EPA 600/R-93/116 and 600/M4-82-020 Methods with the following measurement uncertainties for the reported % Asbestos (1%=0-3%, 5%=1-9%, 10%=5-15%, 20%=10-30%, 50%=40-60%). This report relates only to the items tested. If sample was not collected by NVL personnel, then the accuracy of the results is limited by the methodology and acuity of the sample collector. This report shall not be reproduced except in full, without written approval of NVL Laboratories, Inc. It shall not be used to claim product endorsement by NVLAP or any other agency of the US Government

Bulk Asbestos Fibers Analysis

By Polarized Light Microscopy

Client: Washington State University EH&S
Address: PO Box 641172
Pullman, WA 99164-1172

Attention: Mr. Matt McKibbin
Project Location: WASHINGTON BUILDING

Batch #: 2109585.00
Client Project #: 2021-023138
Date Received: 5/27/2021
Samples Received: 35
Samples Analyzed: 35
Method: EPA/600/R-93/116

Lab ID: 21064345 **Client Sample #: SU-01-A**
Location: WASHINGTON BUILDING
Layer 1 of 1 **Description:** Gray crumbly material

Non-Fibrous Materials:	Other Fibrous Materials:%	**Asbestos Type: %**
Binder/Filler, Fine particles	Cellulose 6%	**None Detected ND**

Lab ID: 21064346 **Client Sample #: SU-01-B**
Location: WASHINGTON BUILDING
Layer 1 of 1 **Description:** Black soft asphaltic material

Non-Fibrous Materials:	Other Fibrous Materials:%	**Asbestos Type: %**
Asphalt/Binder, Fine particles	Cellulose <1%	**None Detected ND**

Lab ID: 21064347 **Client Sample #: CPTMY-01-A**
Location: WASHINGTON BUILDING
Comments: Small sample size.
Layer 1 of 1 **Description:** Multicolored woven fibrous material with yellow mastic

Non-Fibrous Materials:	Other Fibrous Materials:%	**Asbestos Type: %**
Mastic/Binder, Fine particles	Synthetic fibers 63%	**None Detected ND**

Lab ID: 21064348 **Client Sample #: CPTMY-01-B**
Location: WASHINGTON BUILDING
Layer 1 of 1 **Description:** Multicolored woven fibrous material with yellow mastic

Non-Fibrous Materials:	Other Fibrous Materials:%	**Asbestos Type: %**
Mastic/Binder, Fine particles	Synthetic fibers 71%	**None Detected ND**

Lab ID: 21064349 **Client Sample #: CPTMY-02-A**
Location: WASHINGTON BUILDING

Sampled by: Client
Analyzed by: Hilary Crumley **Date:** 06/03/2021
Reviewed by: Nick Ly **Date:** 06/03/2021



Nick Ly, Technical Director

Note: If samples are not homogeneous, then subsamples of the components were analyzed separately. All bulk samples are analyzed using both EPA 600/R-93/116 and 600/M4-82-020 Methods with the following measurement uncertainties for the reported % Asbestos (1%=0-3%, 5%=1-9%, 10%=5-15%, 20%=10-30%, 50%=40-60%). This report relates only to the items tested. If sample was not collected by NVL personnel, then the accuracy of the results is limited by the methodology and acuity of the sample collector. This report shall not be reproduced except in full, without written approval of NVL Laboratories, Inc. It shall not be used to claim product endorsement by NVLAP or any other agency of the US Government

Bulk Asbestos Fibers Analysis

By Polarized Light Microscopy

Client: Washington State University EH&S
Address: PO Box 641172
Pullman, WA 99164-1172

Attention: Mr. Matt McKibbin
Project Location: WASHINGTON BUILDING

Batch #: 2109585.00
Client Project #: 2021-023138
Date Received: 5/27/2021
Samples Received: 35
Samples Analyzed: 35
Method: EPA/600/R-93/116

Layer 1 of 1 **Description:** Yellow soft adhesive with debris

Non-Fibrous Materials:	Other Fibrous Materials:%	**Asbestos Type: %**
Adhesive/Binder, Fine particles, Debris	Cellulose <1%	**None Detected ND**

Lab ID: 21064350 **Client Sample #: CPTMY-02-B**
Location: WASHINGTON BUILDING

Layer 1 of 1 **Description:** Yellow soft adhesive with debris

Non-Fibrous Materials:	Other Fibrous Materials:%	**Asbestos Type: %**
Adhesive/Binder, Fine particles, Debris	Cellulose 1%	**None Detected ND**

Lab ID: 21064351 **Client Sample #: CPTMGR-01-A**
Location: WASHINGTON BUILDING

Layer 1 of 1 **Description:** Green soft adhesive with thin yellow mastic with debris

Non-Fibrous Materials:	Other Fibrous Materials:%	**Asbestos Type: %**
Adhesive/Binder, Fine particles, Mastic/Binder Debris	Cellulose <1%	**None Detected ND**

Lab ID: 21064352 **Client Sample #: CPTMT-01-A**
Location: WASHINGTON BUILDING

Layer 1 of 1 **Description:** Tan soft mastic with debris

Non-Fibrous Materials:	Other Fibrous Materials:%	**Asbestos Type: %**
Mastic/Binder, Fine particles, Debris	Synthetic fibers 4%	**None Detected ND**
	Cellulose 1%	

Lab ID: 21064353 **Client Sample #: CPTMGRY-01-A**
Location: WASHINGTON BUILDING
Comments: Unable to separate materials for analysis.

Sampled by: Client
Analyzed by: Hilary Crumley **Date:** 06/03/2021
Reviewed by: Nick Ly **Date:** 06/03/2021



Nick Ly, Technical Director

Note: If samples are not homogeneous, then subsamples of the components were analyzed separately. All bulk samples are analyzed using both EPA 600/R-93/116 and 600/M4-82-020 Methods with the following measurement uncertainties for the reported % Asbestos (1%=0-3%, 5%=1-9%, 10%=5-15%, 20%=10-30%, 50%=40-60%). This report relates only to the items tested. If sample was not collected by NVL personnel, then the accuracy of the results is limited by the methodology and acuity of the sample collector. This report shall not be reproduced except in full, without written approval of NVL Laboratories, Inc. It shall not be used to claim product endorsement by NVLAP or any other agency of the US Government

Bulk Asbestos Fibers Analysis

By Polarized Light Microscopy

Client: Washington State University EH&S
Address: PO Box 641172
Pullman, WA 99164-1172

Attention: Mr. Matt McKibbin
Project Location: WASHINGTON BUILDING

Batch #: 2109585.00
Client Project #: 2021-023138
Date Received: 5/27/2021
Samples Received: 35
Samples Analyzed: 35
Method: EPA/600/R-93/116

Layer 1 of 1 **Description:** Gray crumbly material with clear adhesive and trace yellow mastic

Non-Fibrous Materials:	Other Fibrous Materials:%	**Asbestos Type: %**
Binder/Filler, Adhesive/Binder, Mastic/Binder	Cellulose 4%	**None Detected ND**
Fine particles		

Lab ID: 21064354 **Client Sample #: SFP-01-A**

Location: WASHINGTON BUILDING

Layer 1 of 1 **Description:** Beige crumbly material with paint

Non-Fibrous Materials:	Other Fibrous Materials:%	**Asbestos Type: %**
Binder/Filler, Fine particles, Mica	Cellulose 36%	**None Detected ND**
Paint, Calcareous particles	Glass fibers 10%	

Lab ID: 21064355 **Client Sample #: SFP-01-B**

Location: WASHINGTON BUILDING

Layer 1 of 1 **Description:** Beige crumbly material with paint

Non-Fibrous Materials:	Other Fibrous Materials:%	**Asbestos Type: %**
Binder/Filler, Fine particles, Mica	Cellulose 23%	**None Detected ND**
Paint	Glass fibers 7%	

Lab ID: 21064356 **Client Sample #: SFP-01-C**

Location: WASHINGTON BUILDING

Layer 1 of 1 **Description:** Beige crumbly material

Non-Fibrous Materials:	Other Fibrous Materials:%	**Asbestos Type: %**
Binder/Filler, Fine particles, Mica	Cellulose 35%	**None Detected ND**
Paint	Glass fibers 9%	

Sampled by: Client
Analyzed by: Hilary Crumley **Date:** 06/03/2021
Reviewed by: Nick Ly **Date:** 06/03/2021



Nick Ly, Technical Director

Note: If samples are not homogeneous, then subsamples of the components were analyzed separately. All bulk samples are analyzed using both EPA 600/R-93/116 and 600/M4-82-020 Methods with the following measurement uncertainties for the reported % Asbestos (1%=0-3%, 5%=1-9%, 10%=5-15%, 20%=10-30%, 50%=40-60%). This report relates only to the items tested. If sample was not collected by NVL personnel, then the accuracy of the results is limited by the methodology and acuity of the sample collector. This report shall not be reproduced except in full, without written approval of NVL Laboratories, Inc. It shall not be used to claim product endorsement by NVLAP or any other agency of the US Government

Bulk Asbestos Fibers Analysis

By Polarized Light Microscopy

Client: Washington State University EH&S
Address: PO Box 641172
Pullman, WA 99164-1172

Attention: Mr. Matt McKibbin
Project Location: WASHINGTON BUILDING

Batch #: 2109585.00
Client Project #: 2021-023138
Date Received: 5/27/2021
Samples Received: 35
Samples Analyzed: 35
Method: EPA/600/R-93/116

Lab ID: 21064357 **Client Sample #: RF-01-A**

Location: WASHINGTON BUILDING

Comments: Unsure of correct layer sequence.

Layer 1 of 7	**Description:** White soft rubbery material with paint			
	Non-Fibrous Materials:	Other Fibrous Materials:	%	**Asbestos Type: %**
	Binder/Filler, Fine particles, Paint	None Detected	ND	**None Detected ND**
Layer 2 of 7	**Description:** Thin silver paint			
	Non-Fibrous Materials:	Other Fibrous Materials:	%	**Asbestos Type: %**
	Paint/Binder, Metallic paint	Polyethylene fibers	1%	**None Detected ND**
		Cellulose	<1%	
Layer 3 of 7	**Description:** Black asphaltic layered material with black asphalt mastic			
	Non-Fibrous Materials:	Other Fibrous Materials:	%	**Asbestos Type: %**
	Asphalt/Binder, Fine grains, Fine particles	Synthetic fibers	18%	**None Detected ND**
		Glass fibers	10%	
Layer 4 of 7	**Description:** Brown crumbly fibrous material			
	Non-Fibrous Materials:	Other Fibrous Materials:	%	**Asbestos Type: %**
	Binder/Filler, Fine particles, Perlite	Cellulose	83%	**None Detected ND**
Layer 5 of 7	**Description:** Black asphaltic crumbly material			
	Non-Fibrous Materials:	Other Fibrous Materials:	%	**Asbestos Type: %**
	Asphalt/Binder, Fine particles	Cellulose	12%	**None Detected ND**
Layer 6 of 7	**Description:** Yellow foamy mateiral			
	Non-Fibrous Materials:	Other Fibrous Materials:	%	**Asbestos Type: %**
	Binder/Filler, Synthetic foam	None Detected	ND	**None Detected ND**

Sampled by: Client
Analyzed by: Hilary Crumley **Date:** 06/03/2021
Reviewed by: Nick Ly **Date:** 06/03/2021

Nick Ly, Technical Director

Note: If samples are not homogeneous, then subsamples of the components were analyzed separately. All bulk samples are analyzed using both EPA 600/R-93/116 and 600/M4-82-020 Methods with the following measurement uncertainties for the reported % Asbestos (1%=0-3%, 5%=1-9%, 10%=5-15%, 20%=10-30%, 50%=40-60%). This report relates only to the items tested. If sample was not collected by NVL personnel, then the accuracy of the results is limited by the methodology and acuity of the sample collector. This report shall not be reproduced except in full, without written approval of NVL Laboratories, Inc. It shall not be used to claim product endorsement by NVLAP or any other agency of the US Government

Bulk Asbestos Fibers Analysis

By Polarized Light Microscopy

Client: Washington State University EH&S
Address: PO Box 641172
Pullman, WA 99164-1172

Attention: Mr. Matt McKibbin
Project Location: WASHINGTON BUILDING

Batch #: 2109585.00
Client Project #: 2021-023138
Date Received: 5/27/2021
Samples Received: 35
Samples Analyzed: 35
Method: EPA/600/R-93/116

Layer 7 of 7	**Description:** Brown crumbly fibrous material			
	Non-Fibrous Materials:	Other Fibrous Materials:%		**Asbestos Type: %**
	Binder/Filler, Fine particles, Perlite	Cellulose	86%	**None Detected ND**

Lab ID: 21064358 **Client Sample #: RF-02-A**

Location: WASHINGTON BUILDING

Comments: Unsure of correct layer sequence.

Layer 1 of 8	**Description:** White soft rubbery material with paint			
	Non-Fibrous Materials:	Other Fibrous Materials:%		**Asbestos Type: %**
	Binder/Filler, Fine particles, Paint	None Detected	ND	**None Detected ND**
Layer 2 of 8	**Description:** Silver paint			
	Non-Fibrous Materials:	Other Fibrous Materials:%		**Asbestos Type: %**
	Paint/Binder, Metallic paint	Polyethylene fibers	3%	**None Detected ND**
Layer 3 of 8	**Description:** Black asphaltic layered material with black asphalt mastic			
	Non-Fibrous Materials:	Other Fibrous Materials:%		**Asbestos Type: %**
	Asphalt/Binder, Fine grains, Fine particles	Glass fibers	20%	**None Detected ND**
Layer 4 of 8	**Description:** Brown crumbly fibrous material			
	Non-Fibrous Materials:	Other Fibrous Materials:%		**Asbestos Type: %**
	Binder/Filler, Fine particles, Perlite	Cellulose	80%	**None Detected ND**
Layer 5 of 8	**Description:** Yellow foamy mateiral			
	Non-Fibrous Materials:	Other Fibrous Materials:%		**Asbestos Type: %**
	Binder/Filler, Synthetic foam	None Detected	ND	**None Detected ND**
Layer 6 of 8	**Description:** Black layered asphaltic fibrous material with black asphaltic mastic			
	Non-Fibrous Materials:	Other Fibrous Materials:%		**Asbestos Type: %**
	Asphalt/Binder, Fine particles	Cellulose	53%	**None Detected ND**

Sampled by: Client
Analyzed by: Hilary Crumley **Date:** 06/03/2021
Reviewed by: Nick Ly **Date:** 06/03/2021

Nick Ly, Technical Director

Note: If samples are not homogeneous, then subsamples of the components were analyzed separately. All bulk samples are analyzed using both EPA 600/R-93/116 and 600/M4-82-020 Methods with the following measurement uncertainties for the reported % Asbestos (1%=0-3%, 5%=1-9%, 10%=5-15%, 20%=10-30%, 50%=40-60%). This report relates only to the items tested. If sample was not collected by NVL personnel, then the accuracy of the results is limited by the methodology and acuity of the sample collector. This report shall not be reproduced except in full, without written approval of NVL Laboratories, Inc. It shall not be used to claim product endorsement by NVLAP or any other agency of the US Government

Bulk Asbestos Fibers Analysis

By Polarized Light Microscopy

Client: Washington State University EH&S
Address: PO Box 641172
Pullman, WA 99164-1172

Attention: Mr. Matt McKibbin
Project Location: WASHINGTON BUILDING

Batch #: 2109585.00
Client Project #: 2021-023138
Date Received: 5/27/2021
Samples Received: 35
Samples Analyzed: 35
Method: EPA/600/R-93/116

Layer 7 of 8	**Description:** Yellow foamy mateiral			
	Non-Fibrous Materials:	Other Fibrous Materials:%		**Asbestos Type: %**
	Binder/Filler, Synthetic foam	None Detected	ND	**None Detected ND**
Layer 8 of 8	**Description:** Brown crumbly fibrous material			
	Non-Fibrous Materials:	Other Fibrous Materials:%		**Asbestos Type: %**
	Binder/Filler, Fine particles, Perlite	Cellulose	83%	**None Detected ND**

Lab ID: 21064359 **Client Sample #: RF-03-A**

Location: WASHINGTON BUILDING

Comments: Unsure of correct layer sequence. No silver paint present.

Layer 1 of 7	**Description:** White soft rubbery material with paint			
	Non-Fibrous Materials:	Other Fibrous Materials:%		**Asbestos Type: %**
	Binder/Filler, Fine particles, Paint	None Detected	ND	**None Detected ND**
Layer 2 of 7	**Description:** Black asphaltic built-up material with granules			
	Non-Fibrous Materials:	Other Fibrous Materials:%		**Asbestos Type: %**
	Asphalt/Binder, Fine grains, Fine particles	Glass fibers	19%	**None Detected ND**
	Granules	Synthetic fibers	13%	
		Cellulose	<1%	
Layer 3 of 7	**Description:** Tan fibrous material			
	Non-Fibrous Materials:	Other Fibrous Materials:%		**Asbestos Type: %**
	Binder/Filler, Fine particles	Cellulose	87%	**None Detected ND**
Layer 4 of 7	**Description:** Brown crumbly fibrous material			
	Non-Fibrous Materials:	Other Fibrous Materials:%		**Asbestos Type: %**
	Binder/Filler, Fine particles, Perlite	Cellulose	82%	**None Detected ND**

Sampled by: Client
Analyzed by: Hilary Crumley **Date:** 06/03/2021
Reviewed by: Nick Ly **Date:** 06/03/2021

Nick Ly, Technical Director

Note: If samples are not homogeneous, then subsamples of the components were analyzed separately. All bulk samples are analyzed using both EPA 600/R-93/116 and 600/M4-82-020 Methods with the following measurement uncertainties for the reported % Asbestos (1%=0-3%, 5%=1-9%, 10%=5-15%, 20%=10-30%, 50%=40-60%). This report relates only to the items tested. If sample was not collected by NVL personnel, then the accuracy of the results is limited by the methodology and acuity of the sample collector. This report shall not be reproduced except in full, without written approval of NVL Laboratories, Inc. It shall not be used to claim product endorsement by NVLAP or any other agency of the US Government

Bulk Asbestos Fibers Analysis

By Polarized Light Microscopy

Client: Washington State University EH&S
Address: PO Box 641172
Pullman, WA 99164-1172

Attention: Mr. Matt McKibbin
Project Location: WASHINGTON BUILDING

Batch #: 2109585.00
Client Project #: 2021-023138
Date Received: 5/27/2021
Samples Received: 35
Samples Analyzed: 35
Method: EPA/600/R-93/116

Layer 5 of 7	**Description:** Black asphaltic fibrous material with black asphaltic mastic			
	Non-Fibrous Materials:	Other Fibrous Materials:%		**Asbestos Type: %**
	Asphalt/Binder, Fine particles	Cellulose	51%	**None Detected ND**
Layer 6 of 7	**Description:** Yellow foamy material			
	Non-Fibrous Materials:	Other Fibrous Materials:%		**Asbestos Type: %**
	Binder/Filler, Synthetic foam	None Detected	ND	**None Detected ND**
Layer 7 of 7	**Description:** Brown crumbly fibrous material			
	Non-Fibrous Materials:	Other Fibrous Materials:%		**Asbestos Type: %**
	Binder/Filler, Fine particles, Perlite	Cellulose	82%	**None Detected ND**

Lab ID: 21064360 **Client Sample #: PP-01-A**

Location: WASHINGTON BUILDING

Layer 1 of 3	**Description:** White soft rubbery material with paint			
	Non-Fibrous Materials:	Other Fibrous Materials:%		**Asbestos Type: %**
	Binder/Filler, Fine particles, Paint	None Detected	ND	**None Detected ND**
Layer 2 of 3	**Description:** Thin silver paint			
	Non-Fibrous Materials:	Other Fibrous Materials:%		**Asbestos Type: %**
	Paint/Binder, Fine particles, Metallic paint	Polyethylene fibers	4%	**None Detected ND**
Layer 3 of 3	**Description:** Metal with debris			
	Non-Fibrous Materials:	Other Fibrous Materials:%		**Asbestos Type: %**
	Metal, Fine particles, Debris	None Detected	ND	**None Detected ND**

Sampled by: Client
Analyzed by: Hilary Crumley **Date:** 06/03/2021
Reviewed by: Nick Ly **Date:** 06/03/2021

Nick Ly, Technical Director

Note: If samples are not homogeneous, then subsamples of the components were analyzed separately. All bulk samples are analyzed using both EPA 600/R-93/116 and 600/M4-82-020 Methods with the following measurement uncertainties for the reported % Asbestos (1%=0-3%, 5%=1-9%, 10%=5-15%, 20%=10-30%, 50%=40-60%). This report relates only to the items tested. If sample was not collected by NVL personnel, then the accuracy of the results is limited by the methodology and acuity of the sample collector. This report shall not be reproduced except in full, without written approval of NVL Laboratories, Inc. It shall not be used to claim product endorsement by NVLAP or any other agency of the US Government



Company Washington State University EH&S
Address PO Box 641172
Pullman, WA 99164-1172
Project Manager Mr. Matt McKibbin
Phone (509) 335-3041
Direct (509) 335-5311

NVL Batch Number **2109585.00**
TAT 5 Days **AH** No
Rush TAT
Due Date 6/4/2021 **Time** 9:45 AM
Email mrmckibbin@wsu.edu
Fax (509) 730-5548

Project Name/Number: 2021-023138 **Project Location:** WASHINGTON BUILDING

Subcategory PLM Bulk
Item Code ASB-02 EPA 600/R-93-116 Asbestos by PLM <bulk>

Total Number of Samples 35 Rush Samples

	Lab ID	Sample ID	Description	A/R
1	21064326	GWB-01-B		A
2	21064327	GWB-01-C		A
3	21064328	GWB-01-D		A
4	21064329	GWB-01-E		A
5	21064330	GWB-01-F		A
6	21064331	GWB-01-G		A
7	21064332	GWB-01-H		A
8	21064333	GWB-02-A		A
9	21064334	GWB-02-B		A
10	21064335	PLAS-01-A		A
11	21064336	PLAS-01-B		A
12	21064337	PLAS-01-C		A
13	21064338	PLAS-02-A		A
14	21064339	PLAS-02-B		A
15	21064340	PLAS-02-C		A
16	21064341	PLAS-03-A		A
17	21064342	PLAS-03-B		A
18	21064343	PLAS-03-C		A

	Print Name	Signature	Company	Date	Time
Sampled by	Client				
Relinquished by	Federal Express				

Office Use Only	Print Name	Signature	Company	Date	Time
Received by	Kelly AuVu		NVL	5/27/21	945
Analyzed by	Hilary Crumley		NVL	6/3/21	
Results Called by					
☐ **Faxed** ☐ **Emailed**					

Special Instructions:

Date: 5/27/2021
Time: 12:21 PM
Entered By: Kelly AuVu

NVL

Company Washington State University EH&S
Address PO Box 641172
Pullman, WA 99164-1172
Project Manager Mr. Matt McKibbin
Phone (509) 335-3041
Direct (509) 335-5311

NVL Batch Number **2109585.00**
TAT 5 Days **AH** No
Rush TAT
Due Date 6/4/2021 **Time** 9:45 AM
Email mrmckibbin@wsu.edu
Fax (509) 730-5548

Project Name/Number: 2021-023138 **Project Location:** WASHINGTON BUILDING

Subcategory PLM Bulk
Item Code ASB-02 EPA 600/R-93-116 Asbestos by PLM <bulk>

Total Number of Samples 35 Rush Samples

	Lab ID	Sample ID	Description	A/R
19	21064344	DMT-01-A		A
20	21064345	SU-01-A		A
21	21064346	SU-01-B		A
22	21064347	CPTMY-01-A		A
23	21064348	CPTMY-01-B		A
24	21064349	CPTMY-02-A		A
25	21064350	CPTMY-02-B		A
26	21064351	CPTMGR-01-A		A
27	21064352	CPTMT-01-A		A
28	21064353	CPTMGRY-01-A		A
29	21064354	SFP-01-A		A
30	21064355	SFP-01-B		A
31	21064356	SFP-01-C		A
32	21064357	RF-01-A		A
33	21064358	RF-02-A		A
34	21064359	RF-03-A		A
35	21064360	PP-01-A		A

	Print Name	Signature	Company	Date	Time
Sampled by	Client				
Relinquished by	Federal Express				

Office Use Only	Print Name	Signature	Company	Date	Time
Received by	Kelly AuVu		NVL	5/27/21	945
Analyzed by	Hilary Crumley		NVL	6/3/21	
Results Called by					
☐ **Faxed** ☐ **Emailed**					

Special Instructions:

Date: 5/27/2021
Time: 12:21 PM
Entered By: Kelly AuVu

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Turn Around Time
- ☐ 1 Hour
- ☐ 2 Hours
- ☐ 4 Hours
- ☐ 24 Hours
- ☐ 2 Days
- ☐ 3 Days
- ☐ 4 Days
- ☑ 5 Days
- ☐ 10 Days

Please call for TAT less than 24 Hours

Company: Washington St. University EH&S
Address: PO Box 641172
Pullman, WA 99164
Phone: 509-335-5604

Project Manager: Matt McKibbin
Cell: (509) 730 - 5548
Email: mrmckibbin@wsu.edu, stephan.gilley@wsu.edu
Fax: ( ) -

Project Name/Number: 2021-023138
Project Location: WASHINGTON BUILDING

- ☐ PCM Air (NIOSH 7400)
- ☑ PLM (EPA 600/R-93-116)
- ☐ PLM Gravimetry (600/R-93-116)
- ☐ Asbestos Friable/Non-Friable (EPA 600/R-93/116)
- ☐ TEM (NIOSH 7402)
- ☐ EPA 400 Points (600/R-93-116)
- ☐ Asbestos in Vermiculite (EPA 600/R-04/004)
- ☐ TEM (AHERA)
- ☐ Other
- ☐ TEM (EPA Level II Modified)
- ☐ EPA 1000Points (600/R-93-116)
- ☐ Asbestos in Sediment (EPA 1900 Points)

Reporting Instructions: email
☐ Call ( ) -
☐ Fax ( ) -
☐ Email: mrmckibbin@wsu.edu stephan.gilley@wsu.edu

Total Number of Samples 25

	Sample ID	Description	A/R
1	GWB-01-B	Gypsum wallboard/ joint compound/brown mastic	
2	GWB-01-C	Gypsum wallboard/ joint compound	
3	GWB-01-D	Gypsum wallboard/ joint compound	
4	GWB-01-E	Gypsum wallboard/ joint compound	
5	GWB-01-F	Gypsum wallboard/ joint compound	
6	GWB-01-G	Gypsum wallboard/ joint compound	
7	GWB-01-H	Gypsum wallboard/ joint compound	
8	GWB-02-A	Gypsum wallboard/ joint compound	
9	GWB-02-B	Gypsum wallboard/ joint compound	
10	PLAS-01-A	White skim coat/ Gray scratch coat	
11	PLAS-01-B	White skim coat/ Gray scratch coat	
12	PLAS-01-C	White skim coat/ Gray scratch coat	
13	PLAS-02-A	White textured coat/ Gray scratch coat	
14	PLAS-02-B	White textured coat/ Gray scratch coat	
15	PLAS-02-C	White textured coat/ Gray scratch coat	

	Print Name	Signature	Company	Date	Time
Sampled by	Stephan Gilley		WSU EH&S	5-19-2021	15:30
Relinquish by	Stephan Gilley		WSU EH&S	5-26-2021	11:30

Office Use Only

	Print Name	Signature	Company	Date	Time
Received by	Kelly Allen		NVL	5/27/2021	9:45
Analyzed by					
Called by					
Faxed/Email by					

2109585

NVL LABS
INDUSTRIAL HYGIENE SERVICES
Laboratory | Management | Training

ASBESTOS CHAIN OF CUSTODY

Turn Around Time
- ☐ 1 Hour
- ☐ 2 Hours
- ☐ 4 Hours
- ☐ 24 Hours
- ☐ 2 Days
- ☐ 3 Days
- ☐ 4 Days
- ☑ 5 Days
- ☐ 10 Days

Please call for TAT less than 24 Hours

Company: Washington St. University EH&S
Address: PO Box 641172
Pullman, WA 99164
Phone: 509-335-5604

Project Manager: Matt McKibbin
Cell: (509) 730 - 5548
Email: mrmckibbin@wsu.edu, stephan.gilley@wsu.edu
Fax: ( ) -

Project Name/Number: 2021-023138
Project Location: WASHINGTON BUILDING

- ☐ PCM Air (NIOSH 7400)
- ☑ PLM (EPA 600/R-93-116)
- ☐ PLM Gravimetry (600/R-93-116)
- ☐ Asbestos Friable/Non-Friable (EPA 600/R-93/116)
- ☐ TEM (NIOSH 7402)
- ☐ EPA 400 Points (600/R-93-116)
- ☐ Asbestos in Vermiculite (EPA 600/R-04/004)
- ☐ TEM (AHERA)
- ☐ Other
- ☐ TEM (EPA Level II Modified)
- ☐ EPA 1000Points (600/R-93-116)
- ☐ Asbestos in Sediment (EPA 1900 Points)

Reporting Instructions: email
☐ Call ( ) -
☐ Fax ( ) -
☐ Email: mrmckibbin@wsu.edu stephan.gilley@wsu.edu

Total Number of Samples 25

	Sample ID	Description	A/R
1	PLAS-03-A	White skim coat/ Gray scratch coat	
2	PLAS-03-B	White skim coat/ Gray scratch coat	
3	PLAS-03-C	White skim coat/ Gray scratch coat	
4	DMT-01-A	Tan duct mastic	
5	SU-01-A	Gray sink undercoat	
6	SU-01-B	Black sink undercoat	
7	CPTMY-01-A	Blue carpet/ yellow mastic	
8	CPTMY-01-B	Multi-color carpet/ yellow mastic	
9	CPTMY-02-A	Yellow soft carpet mastic	
10	CPTMY-02-B	Yellow soft carpet mastic	
11	CPTMGR-01-A	Multi-color carpet/ Green carpet mastic	
12	CPTMT-01-A	Tan carpet mastic	
13	CPTMGRY-01-A	Gray soft carpet mastic	
14	SFP-01-A	Light gray spray-on insulation	
15	SFP-01-B	Light gray spray-on insulation	

	Print Name	Signature	Company	Date	Time
Sampled by	Stephan Gilley		WSU EH&S	5-19-2021	15:30
Relinquish by	Stephan Gilley		WSU EH&S	5-26-2021	11:30

Office Use Only

	Print Name	Signature	Company	Date	Time
Received by	[illegible]	[illegible]	NVL	5/27/2021	9:45
Analyzed by					
Called by					
Faxed/Email by					

NVL LABS
INDUSTRIAL HYGIENE SERVICES
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ASBESTOS CHAIN OF CUSTODY

Turn Around Time
- ☐ 1 Hour
- ☐ 2 Hours
- ☐ 4 Hours
- ☐ 24 Hours
- ☐ 2 Days
- ☐ 3 Days
- ☐ 4 Days
- ☑ 5 Days
- ☐ 10 Days

Please call for TAT less than 24 Hours

Company: Washington St. University EH&S
Address: PO Box 641172
Pullman, WA 99164
Phone: 509-335-5604

Project Manager: Matt McKibbin
Cell: (509) 730 - 5548
Email: mrmckibbin@wsu.edu, stephan.gilley@wsu.edu
Fax: ( ) -

Project Name/Number: 2021-023138
Project Location: WASHINGTON BUILDING

- ☐ PCM Air (NIOSH 7400)
- ☑ PLM (EPA 600/R-93-116)
- ☐ PLM Gravimetry (600/R-93-116)
- ☐ Asbestos Friable/Non-Friable (EPA 600/R-93/116)
- ☐ TEM (NIOSH 7402)
- ☐ EPA 400 Points (600/R-93-116)
- ☐ Asbestos in Vermiculite (EPA 600/R-04/004)
- ☐ TEM (AHERA)
- ☐ Other
- ☐ TEM (EPA Level II Modified)
- ☐ EPA 1000Points (600/R-93-116)
- ☐ Asbestos in Sediment (EPA 1900 Points)

Reporting Instructions: email
☐ Call ( ) -
☐ Fax ( ) -
☐ Email: mrmckibbin@wsu.edu stephan.gilley@wsu.edu

Total Number of Samples 124

	Sample ID	Description	A/R
1	SFP-01-C	Light gray spray-on insulation	
2	RF-01-A	Roof core: paint/asphaltic/ perlite/asphaltic/insulation/perlite	
3	RF-02-A	Roof core: paint/asphaltic/insulation/asphaltic/insulation/asphaltic/perl.	
4	RF-03-A	Roof core: paint/asphaltic/loose fiber/perlite/asphaltic/insulation/perl.	
5	PP-01-A	Pipe penetration: Silver flexible coating	
6			
7			
8			
9			
10			
11			
12			
13			
14			
15			

	Print Name	Signature	Company	Date	Time
Sampled by	Stephan Gilley		WSU EH&S	5-19-2021	15:30
Relinquish by	Stephan Gilley		WSU EH&S	5-26-2021	11:30

Office Use Only

	Print Name	Signature	Company	Date	Time
Received by	[illegible]	[illegible]	NVL	5/27/2021	945 fap
Analyzed by					
Called by					
Faxed/Email by					

WSU EH&S **Asbestos Sampling Data Sheet**

Building: WASHINGTON BUILD Inspector S. GILLEY Date MAY 2021

HSA	Material	Type (TSI, Surfacing, Misc.)	Estimated Quantity
GWB-01	Gypsum wallboard / joint compound	MISC.	40,000 SF

Sample No.	Layering	Sample Location	Friable	Notes
A	Layer 1: white GWB Layer 2: white joint compound Layer 3:	104	YES (NO)	
B	Layer 1: " Layer 2: " Layer 3: brown mastic	@ 169A	YES (NO)	
C	Layer 1: Layer 2: Layer 3:	100W @ 139	YES (NO)	
D	Layer 1: Layer 2: Layer 3:	145	YES (NO)	
E	Layer 1: Layer 2: Layer 3:	200W corr.	YES (NO)	
F	Layer 1: Layer 2: Layer 3:	@ 221	YES (NO)	
G	Layer 1: Layer 2: Layer 3:	G 60D	YES (NO)	

Locations Ground floor, 1st floor, 2nd floor

Attachment C: Washington Building Good Faith Hazardous Material Survey

2109585

WSU EH&S **Asbestos Sampling Data Sheet**

Building: WASHINGTON BUILD Inspector S. GILLEY Date MAY 2021

HSA	Material	Type (TSI, Surfacing, Misc.)	Estimated Quantity
GWB-01	Gypsum wallboard / joint compound	MISC.	40,000 SF

Sample No.	Layering	Sample Location	Friable	Notes
H	Layer 1: White GWB Layer 2: White joint compound Layer 3:	@ G12	YES (NO)	
	Layer 1: Layer 2: Layer 3:		YES NO	
	Layer 1: Layer 2: Layer 3:		YES NO	
	Layer 1: Layer 2: Layer 3:		YES NO	
	Layer 1: Layer 2: Layer 3:		YES NO	
	Layer 1: Layer 2: Layer 3:		YES NO	
	Layer 1: Layer 2: Layer 3:		YES NO	

Locations Grand floor, 1st floor, 2nd floor

2109585

WSU EH&S

Asbestos Sampling Data Sheet

Building: WASHINGTON BUILD Inspector S. GILLEY Date MAY 2021

HSA	Material	Type (TSI, Surfacing, Misc.)	Estimated Quantity
GWB-02	Gypsum wallboard / joint compound	MISC.	25,000 SF

Sample No.	Layering	Sample Location	Friable	Notes
A	Layer 1: White GWB Layer 2: White joint compound Layer 3: -	397	YES (NO)	
B	Layer 1: Layer 2: Layer 3:	300 S. hall-way	YES (NO)	
	Layer 1: Layer 2: Layer 3:		YES NO	
	Layer 1: Layer 2: Layer 3:		YES NO	
	Layer 1: Layer 2: Layer 3:		YES NO	
	Layer 1: Layer 2: Layer 3:		YES NO	
	Layer 1: Layer 2: Layer 3:		YES NO	

Locations 3rd floor: dominant wall system

Attachment C: Washington Building Good Faith Hazardous Material Survey

2109585

WSU EH&S **Asbestos Sampling Data Sheet**

Building: WASHINGTON BUILD Inspector S. GILLEY Date MAY 2021

HSA	Material	Type (TSI, Surfacing, Misc.)	Estimated Quantity
PLAS-01	White plaster skim coat Gray scratch coat	Surf.	900 SF

Sample No.	Layering	Sample Location	Friable	Notes
A	Layer 1: White skim coat Layer 2: Gray scratch coat Layer 3:	G 80 stairs	YES (NO)	
B	Layer 1: Layer 2: Layer 3:	G100 55 stairs	YES (NO)	wire mesh base
C	Layer 1: Layer 2: Layer 3:	G 80 55 stairs	YES (NO)	
	Layer 1: Layer 2: Layer 3:		YES NO	
	Layer 1: Layer 2: Layer 3:		YES NO	
	Layer 1: Layer 2: Layer 3:		YES NO	
	Layer 1: Layer 2: Layer 3:		YES NO	

Locations G 80, G100 55, G 80 55

Attachment C: Washington Building Good Faith Hazardous Material Survey

2109585

WSU EH&S **Asbestos Sampling Data Sheet**

Building: WASHINGTON BUILD Inspector S. GILLEY Date MAY 2021

HSA	Material	Type (TSI, Surfacing, Misc.)	Estimated Quantity
PLAS-02	white thick rough texture/ gray scratch coat	surf.	600 SF

Sample No.	Layering	Sample Location	Friable	Notes
A	Layer 1: White textured coat Layer 2: Gray scratch coat Layer 3:	G100- @ G41D door	YES (NO)	ceiling
B	Layer 1: Layer 2: Layer 3:	G100 - @ G24	YES (NO)	
C	Layer 1: Layer 2: Layer 3:	G100 - @ doors to load. dock	YES (NO)	
	Layer 1: Layer 2: Layer 3:		YES NO	
	Layer 1: Layer 2: Layer 3:		YES NO	
	Layer 1: Layer 2: Layer 3:		YES NO	
	Layer 1: Layer 2: Layer 3:		YES NO	

Locations G100 hallway ceiling

Attachment C: Washington Building Good Faith Hazardous Material Survey

2109585

WSU EH&S **Asbestos Sampling Data Sheet**

Building: WASHINGTON BUILD Inspector S. GILLEY Date MAY 2021

HSA	Material	Type (TSI, Surfacing, Misc.)	Estimated Quantity
PLAS-03	Plaster walls: white skim coat / gray scratch coat	Surf.	900 SF

Sample No.	Layering	Sample Location	Friable	Notes
A	Layer 1: White skim coat Layer 2: Gray scratch coat Layer 3:	G 80 SW	YES (NO)	
B	Layer 1: Layer 2: Layer 3:	180 SW	YES (NO)	
C	Layer 1: Layer 2: Layer 3:	280 SW	YES (NO)	
	Layer 1: Layer 2: Layer 3:		YES NO	
	Layer 1: Layer 2: Layer 3:		YES NO	
	Layer 1: Layer 2: Layer 3:		YES NO	
	Layer 1: Layer 2: Layer 3:		YES NO	

Locations G 80 SW, 180 SW, 280 SW

Attachment C: Washington Building Good Faith Hazardous Material Survey

2109585

WSU EH&S

Asbestos Sampling Data Sheet

Building: WASHINGTON BUILD Inspector S. GILLEY Date MAY 2021

HSA	Material	Type (TSI, Surfacing, Misc.)	Estimated Quantity
DMT-01	TAN duct mastic	MISC.	75 SF

Sample No.	Layering	Sample Location	Friable	Notes
A	Layer 1: Tan duct mastic Layer 2: Layer 3:	397 mechanical room	YES (NO)	HVAC system
	Layer 1: Layer 2: Layer 3:		YES NO	
	Layer 1: Layer 2: Layer 3:		YES NO	
	Layer 1: Layer 2: Layer 3:		YES NO	
	Layer 1: Layer 2: Layer 3:		YES NO	
	Layer 1: Layer 2: Layer 3:		YES NO	
	Layer 1: Layer 2: Layer 3:		YES NO	

Locations 397 - mechanical room

Attachment C: Washington Building Good Faith Hazardous Material Survey

2109585

WSU EH&S **Asbestos Sampling Data Sheet**

Building: WASHINGTON BUILD Inspector S. GILLEY Date MAY 2021

HSA	Material	Type (TSI, Surfacing, Misc.)	Estimated Quantity
SU-01	Sink undercoating	MISC.	40 EA

Sample No.	Layering	Sample Location	Friable	Notes
A	Layer 1: Gray Sink undercoat Layer 2: Layer 3:	G 40 C	YES (NO)	
B	Layer 1: Black Sink undercoat Layer 2: Layer 3:	173	YES (NO)	
	Layer 1: Layer 2: Layer 3:		YES NO	
	Layer 1: Layer 2: Layer 3:		YES NO	
	Layer 1: Layer 2: Layer 3:		YES NO	
	Layer 1: Layer 2: Layer 3:		YES NO	
	Layer 1: Layer 2: Layer 3:		YES NO	

Locations Ground, 1st, 2nd floors

Attachment C: Washington Building Good Faith Hazardous Material Survey

2109585

WSU EH&S **Asbestos Sampling Data Sheet**

Building: WASHINGTON BUILD Inspector S. GILLEY Date MAY 2021

HSA	Material	Type (TSI, Surfacing, Misc.)	Estimated Quantity
CPTMY-01	YELLOW carpet mastic	MISC.	50,000 SF

Sample No.	Layering	Sample Location	Friable	Notes
A	Layer 1: Blue carpet Layer 2: yellow mastic Layer 3:	G elevator southeast	YES (NO)	
B	Layer 1: multi-color carpet Layer 2: yellow mastic Layer 3:	B5	YES (NO)	
	Layer 1: Layer 2: Layer 3:		YES NO	
	Layer 1: Layer 2: Layer 3:		YES NO	
	Layer 1: Layer 2: Layer 3:		YES NO	
	Layer 1: Layer 2: Layer 3:		YES NO	
	Layer 1: Layer 2: Layer 3:		YES NO	

Locations B5, Ground, 1st, 2nd

Attachment C: Washington Building Good Faith Hazardous Material Survey

2109585

WSU EH&S

Asbestos Sampling Data Sheet

Building: WASHINGTON BUILD Inspector S. GILLEY Date MAY 2021

HSA	Material	Type (TSI, Surfacing, Misc.)	Estimated Quantity
CPTMY-02	YELLOW SOFT carpet mastic,	MISC.	15,000 SF

Sample No.	Layering	Sample Location	Friable	Notes
A	Layer 1: Yellow soft carpet mastic Layer 2: Layer 3:	301 E	YES (NO)	
B	Layer 1: Layer 2: Layer 3:	337	YES (NO)	
	Layer 1: Layer 2: Layer 3:		YES NO	
	Layer 1: Layer 2: Layer 3:		YES NO	
	Layer 1: Layer 2: Layer 3:		YES NO	
	Layer 1: Layer 2: Layer 3:		YES NO	
	Layer 1: Layer 2: Layer 3:		YES NO	

Locations 3rd floor: under carpet, offices, hallways

Attachment C: Washington Building Good Faith Hazardous Material Survey

2109585

WSU EH&S **Asbestos Sampling Data Sheet**

Building: WASHINGTON BUILD Inspector S. GILLEY Date MAY 2021

HSA	Material	Type (TSI, Surfacing, Misc.)	Estimated Quantity
CPTMGR-01	GREEN carpet mastic	MISC.	2,500 SF

Sample No.	Layering	Sample Location	Friable	Notes
A	Layer 1: Multi-color carpet Layer 2: Green carpet mastic Layer 3:	G 100 W Hallway	YES (NO)	
	Layer 1: Layer 2: Layer 3:		YES NO	
	Layer 1: Layer 2: Layer 3:		YES NO	
	Layer 1: Layer 2: Layer 3:		YES NO	
	Layer 1: Layer 2: Layer 3:		YES NO	
	Layer 1: Layer 2: Layer 3:		YES NO	
	Layer 1: Layer 2: Layer 3:		YES NO	

Locations Eye Clinic: G60

Attachment C: Washington Building Good Faith Hazardous Material Survey

2109585

WSU EH&S **Asbestos Sampling Data Sheet**

Building: WASHINGTON BUILD Inspector S. GILLEY Date MAY 2021

HSA	Material	Type (TSI, Surfacing, Misc.)	Estimated Quantity
CPTMT-01	TAN carpet mastic	MISC.	1,000 SF

Sample No.	Layering	Sample Location	Friable	Notes
A	Layer 1: Tan carpet mastic Layer 2: Layer 3:	G40	YES (NO)	IT main room
	Layer 1: Layer 2: Layer 3:		YES NO	
	Layer 1: Layer 2: Layer 3:		YES NO	
	Layer 1: Layer 2: Layer 3:		YES NO	
	Layer 1: Layer 2: Layer 3:		YES NO	
	Layer 1: Layer 2: Layer 3:		YES NO	
	Layer 1: Layer 2: Layer 3:		YES NO	

Locations G40: IT suite

Attachment C: Washington Building Good Faith Hazardous Material Survey

2109585

WSU EH&S **Asbestos Sampling Data Sheet**

Building: WASHINGTON BUILD Inspector S. GILLEY Date MAY 2021

HSA	Material	Type (TSI, Surfacing, Misc.)	Estimated Quantity
CPTMGRY-01	GRAY soft carpet mastic	MISC.	6,500 SF

Sample No.	Layering	Sample Location	Friable	Notes
A	Layer 1: Gray mastic Layer 2: Layer 3:	@ 257	YES (NO)	Hallway
	Layer 1: Layer 2: Layer 3:		YES NO	
	Layer 1: Layer 2: Layer 3:		YES NO	
	Layer 1: Layer 2: Layer 3:		YES NO	
	Layer 1: Layer 2: Layer 3:		YES NO	
	Layer 1: Layer 2: Layer 3:		YES NO	
	Layer 1: Layer 2: Layer 3:		YES NO	

Locations 200S hallway

Attachment C: Washington Building Good Faith Hazardous Material Survey

2109585

WSU EH&S **Asbestos Sampling Data Sheet**

Building: WASHINGTON BUILD Inspector S. GILLEY Date MAY 2021

HSA	Material	Type (TSI, Surfacing, Misc.)	Estimated Quantity
SFP-01	Light gray soft spray-on insulation	Surf.	10,000 SF

Sample No.	Layering	Sample Location	Friable	Notes
A	Layer 1: Light gray insulation Layer 2: Layer 3:	across from 301 J	(YES) NO	steel beams above SCT
B	Layer 1: Layer 2: Layer 3:	@ 345	(YES) NO	
C	Layer 1: Layer 2: Layer 3:	397	(YES) NO	
	Layer 1: Layer 2: Layer 3:		YES NO	
	Layer 1: Layer 2: Layer 3:		YES NO	
	Layer 1: Layer 2: Layer 3:		YES NO	
	Layer 1: Layer 2: Layer 3:		YES NO	

Locations 3rd floor: spray-on, steel beams

Attachment C: Washington Building Good Faith Hazardous Material Survey

2109585

WSU EH&S

Asbestos Sampling Data Sheet

Building: WASHINGTON BUILD Inspector S. GILLEY Date MAY 2021

HSA	Material	Type (TSI, Surfacing, Misc.)	Estimated Quantity
RF-01	Roof core: top coat/ asph./ insulation	MISC.	2,000 SF

Sample No.	Layering	Sample Location	Friable	Notes
A	Layer 1: Silver paint Layer 2: Black asphaltic Layer 3: Brown perlite	2nd floor – southwest section	YES (NO)	@ access rm. 201
	Layer 1: (4) Black asphaltic Layer 2: (5) Yellow insulation Layer 3: Brown perlite		YES NO	Black vapor barrier below layer (6)
	Layer 1: Layer 2: Layer 3:		YES NO	
	Layer 1: Layer 2: Layer 3:		YES NO	
	Layer 1: Layer 2: Layer 3:		YES NO	
	Layer 1: Layer 2: Layer 3:		YES NO	
	Layer 1: Layer 2: Layer 3:		YES NO	

Locations 2nd floor: southwest roof section

Attachment C: Washington Building Good Faith Hazardous Material Survey

2109585

WSU EH&S

Asbestos Sampling Data Sheet

Building: WASHINGTON BUILD Inspector S. GILLEY Date MAY 2021

HSA	Material	Type (TSI, Surfacing, Misc.)	Estimated Quantity
RF-02	Roof core: top coat / blk. asph. / insulation	MISC.	3,000 SF

Sample No.	Layering	Sample Location	Friable	Notes
A	Layer 1: Silver coat Layer 2: Black asphaltic Layer 3: Yellow insulation	Penthouse roof: South half	YES (NO)	
	Layer 1: (1) Black asphaltic Layer 2: (2) Yellow insulation Layer 3: (3) Black asphaltic		YES NO	
	Layer 1: (7) Brown perlite. Layer 2: Layer 3:		YES NO	Black vapor barrier below layer 7
	Layer 1: Layer 2: Layer 3:		YES NO	
	Layer 1: Layer 2: Layer 3:		YES NO	
	Layer 1: Layer 2: Layer 3:		YES NO	
	Layer 1: Layer 2: Layer 3:		YES NO	

Locations Penthouse roof - south half

Attachment C: Washington Building Good Faith Hazardous Material Survey

2109585

WSU EH&S **Asbestos Sampling Data Sheet**

Building: WASHINGTON BUILD Inspector S. GILLEY Date MAY 2021

HSA	Material	Type (TSI, Surfacing, Misc.)	Estimated Quantity
RF-03	Roof core: top coat/ asph./ insulation	MISC.	3,000 sf

Sample No.	Layering	Sample Location	Friable	Notes
A	Layer 1: Silver coat Layer 2: Black asphaltic Layer 3: Brown fiber (loose)	Penthouse roof: north half	YES (NO)	
	Layer 1: Brown perlite Layer 2: Black asphaltic Layer 3: Yellow insulation		YES NO	
	Layer 1: Brown perlite Layer 2: Layer 3:		YES NO	Black vapor barrier below layer 1
	Layer 1: Layer 2: Layer 3:		YES NO	
	Layer 1: Layer 2: Layer 3:		YES NO	
	Layer 1: Layer 2: Layer 3:		YES NO	
	Layer 1: Layer 2: Layer 3:		YES NO	

Locations

Attachment C: Washington Building Good Faith Hazardous Material Survey

2109585

WSU EH&S **Asbestos Sampling Data Sheet**

Building: WASHINGTON BUILD Inspector S. GILLEY Date MAY 2021

HSA	Material	Type (TSI, Surfacing, Misc.)	Estimated Quantity
PP-01	Vertical pipe penetration	MISC.	25 EA

Sample No.	Layering	Sample Location	Friable	Notes
A	Layer 1: Silver flexible coating Layer 2: Layer 3:	Penthouse roof: South half	YES (NO)	
	Layer 1: Layer 2: Layer 3:		YES NO	
	Layer 1: Layer 2: Layer 3:		YES NO	
	Layer 1: Layer 2: Layer 3:		YES NO	
	Layer 1: Layer 2: Layer 3:		YES NO	
	Layer 1: Layer 2: Layer 3:		YES NO	
	Layer 1: Layer 2: Layer 3:		YES NO	

Locations Penthouse roof: North, South
2nd floor: roof

Attachment C: Washington Building Good Faith Hazardous Material Survey

2109585

May 28, 2021

Matt McKibbin
Washington State University EH&S
PO Box 641172
Pullman, WA 99164-1172

NVL Batch # 2109579.00

RE: Total Metal Analysis
Method: EPA 7000B Lead by FAA <paint>
Item Code: FAA-02

Client Project: 2021-023138
Location: WASHINGTON BUILDING

Dear Mr. McKibbin,

NVL Labs received 4 sample(s) for the said project on 5/27/2021. Preparation of these samples was conducted following protocol outlined in EPA 3051/7000B , unless stated otherwise. Analysis of these samples was performed using analytical instruments in accordance with EPA 7000B Lead by FAA <paint>. The results are usually expressed in mg/Kg and percentage (%). Test results are not blank corrected.

For recent regulation updates pertaining to current regulatory levels or permissible exposure levels, please call your local regulatory agencies for more detail.

At NVL Labs all analyses are performed under strict guidelines of the Quality Assurance Program. This report is considered highly confidential and will not be released without your approval. Samples are archived after two weeks from the analysis date. Please feel free to contact us at 206-547-0100, in case you have any questions or concerns.

Sincerely,

Shalini Patel, Lab Supervisor

Enc.: Sample results

Phone: 206 547.0100 | Fax: 206 634.1936 | Toll Free: 1.888.NVL.LABS (685.5227)
4708 Aurora Avenue North | Seattle, WA 98103-6516

Analysis Report

Total Lead (Pb)

Client: Washington State University EH&S
Address: PO Box 641172
Pullman, WA 99164-1172

Attention: **Mr. Matt McKibbin**
Project Location: WASHINGTON BUILDING

Batch #: 2109579.00
Matrix: Paint
Method: EPA 3051/7000B
Client Project #: 2021-023138
Date Received: 5/27/2021
Samples Received: 4
Samples Analyzed: 4

Lab ID	Client Sample #	Sample Weight (g)	RL in mg/Kg	Results in mg/Kg	Results in percent
21064215	PB-01	0.1211	83	< 83	<0.0083
21064216	PB-02	0.2134	47	200	0.020
21064217	PB-03	0.1807	55	< 55	<0.0055
21064218	PB-04	0.1058	95	< 95	<0.0095

Sampled by: Client
Analyzed by: Yasuyuki Hida
Reviewed by: Shalini Patel

Date Analyzed: 05/27/2021
Date Issued: 05/28/2021

Shalini Patel, Lab Supervisor

mg/ Kg =Milligrams per kilogram
Percent = Milligrams per kilogram / 10000
Note : Method QC results are acceptable unless stated otherwise.
Unless otherwise indicated, the condition of all samples was acceptable at time of receipt.

RL = Reporting Limit
'<' = Below the reporting Limit

Bench Run No: 2021-0527-7
FAA-02



Company	Washington State University EH&S	**NVL Batch Number**	**2109579.00**
Address	PO Box 641172	**TAT**	5 Days **AH** No
	Pullman, WA 99164-1172	**Rush TAT**	
Project Manager	Mr. Matt McKibbin	**Due Date**	6/4/2021 **Time** 9:45 AM
Phone	(509) 335-3041	**Email**	mrmckibbin@wsu.edu
Direct	(509) 335-5311	**Fax**	(509) 730-5548

Project Name/Number: 2021-023138 **Project Location:** WASHINGTON BUILDING

Subcategory Flame AA (FAA)

Item Code FAA-02 EPA 7000B Lead by FAA <paint>

Total Number of Samples 4 Rush Samples

	Lab ID	Sample ID	Description	A/R
1	21064215	PB-01		A
2	21064216	PB-02		A
3	21064217	PB-03		A
4	21064218	PB-04		A

	Print Name	Signature	Company	Date	Time
Sampled by	Client				
Relinquished by	Federal Express				

Office Use Only	Print Name	Signature	Company	Date	Time
Received by	Kelly AuVu		NVL	5/27/21	945
Analyzed by	Yasuyuki Hida		NVL	5/27/21	
Results Called by					
☐ **Faxed** ☐ **Emailed**					

Special Instructions:

Date: 5/27/2021
Time: 11:48 AM
Entered By: Kelly AuVu

NVL LABS
INDUSTRIAL HYGIENE SERVICES
Laboratory | Management | Training

METALS CHAIN OF CUSTODY

Turn Around Time
- ☐ 2 Hour
- ☐ 4 Hours
- ☐ 24 Hours
- ☐ 2 Days
- ☐ 3 Days
- ☐ 4 Days
- ☑ 5 Days
- ☐ 6-10 Days

Please call for TAT less than 24 Hours

Company: Washington State University EH&S
Address: P.O. Box 641172
Pullman, WA 99164
Phone: 509-335-3401

Project Manager: Matt McKibbin
Cell: (509) 730 - 5548
Email: mrmckibbin@wsu.edu, stephan.gilley@wsu.edu
Fax: ( ) -

Project Name/Number: 2021-023138
Project Location: WASHINGTON BUILDING

- ☑ Total Metals
- ☐ TCLP
- ☑ FAA (ppm
- ☐ ICP (PPM
- ☐ GFAA (ppb)
- ☐ CVAA (ppb)
- ☐ Air Filter
- ☐ Paint Chips (cm)
- ☑ Paint Chips (%)
- ☐ Dust Wipes
- ☐ Drinking Water
- ☐ Waste Water
- ☐ Soil
- ☐ Other

RCRA 8
- ☐ Barium
- ☐ Chromium
- ☐ Silver
- ☐ Arsenic
- ☐ Mercury
- ☑ Lead
- ☐ Selenium
- ☐ Cadmium

RCRA 11
- ☐ Copper
- ☐ Zinc
- ☐ Other

Reporting Instructions: email
☐ Call ( ) - ☐ Fax ( ) - ☐ Email mrmckibbin@wsu.edu, stephan.gilley@wsu.edu

Total Number of Samples 4

	Sample ID	Description	A/R
1	PB-01	G10/ White/Concrete/Wall	
2	PB-02	East loading dock/White/Concrete/Canopy ceiling	
3	PB-03	Exterior 401 Penthouse mech rm/White/ Plaster/ Wall	
4	PB-04	@ G70T/ White/ CMU/ Wall	
5			
6			
7			
8			
9			
10			
11			
12			
13			
14			
15			

	Print Name	Signature	Company	Date	Time
Sampled by	Stephan Gilley		WSU EH&S	5-19-2021	15:30
Relinquish by	Stephan Gilley		WSU EH&S	5-26-2021	11:30

Office Use Only

	Print Name	Signature	Company	Date	Time
Received by				5/27/2021	945
Analyzed by					
Called by					
Faxed/Email by					

APPENDIX E

Good Faith Asbestos Inspection and Lead Paint Testing – Strata – November 21, 2011

STRATA
A Professional Services Corporation
Integrity from the Ground Up

November 21, 2011
File: WASUNI M11135A

Mr. Lawrence Harris
Project Manager
Capital Planning and Development
Commons Building 209d
Washington State University
Pullman, WA 99164-1152
509-335-8599
lawrence_harris@wsu.edu

RE: **Good Faith Asbestos Inspection and Lead Paint Testing**
Washington Building Pharmacy Relocation
Washington State University
Pullman, Washington

Dear Mr. Harris:

Strata, A Professional Services Corporation, (STRATA) presents these results from our authorized good faith asbestos inspection and lead paint sampling supporting relocating the Washington Building pharmacy located on the Washington State University (WSU) campus in Pullman, Washington. Services were performed referencing our proposal dated November 11, 2011. The scope of services for the limited good faith asbestos inspection and lead paint sampling included sampling suspect asbestos containing materials (ACMs) and paints that are likely to be impacted by the proposed renovation and referenced Washington Administrative Code (WAC) 296-62-077 (asbestos) and WAC 296-155-176 (lead in construction). This report summarizes STRATA's sampling activities and presents analytical test results.

ASBESTOS INSPECTION

The asbestos inspection was performed on November 14th, 2011 by Mr. Shawn Ringo, a United States Environmental Protection Agency (EPA)/Asbestos Hazard Emergency Response Act (AHERA) Certified Building Inspector with STRATA. Material bulk samples were delivered to NVL Laboratories in Seattle, Washington for analysis by polarized light microscopy (PLM). NVL is accredited under the National Voluntary Laboratory Accreditation Program (NVLAP) for bulk asbestos fiber analysis, NVLAP Lab Code 102063-0, and the American Industrial Hygiene Association (AIHA) Laboratory Quality Assurance Program (LQAP), Laboratory ID 101861. Copies of personnel and laboratory accreditation are included in Appendix A. The accreditation included is for the current calendar time period only.

Description of Construction and Scope

STRATA was not provided with original construction documents for the Washington Building at the time of the asbestos inspection. STRATA understands the pharmacy will be relocated from its present location to occupy the northwestern first floor of the building. Relocating the pharmacy will require demolishing existing gypsum wallboard walls, floor coverings, removing the existing ceiling

grid and casework. STRATA understands carpet will be applied over the existing pharmacy vinyl composite tile floors.

The Washington building is constructed with structural concrete walls, floors and ceilings. The first floor structural concrete ceiling was observed above the existing suspended ceiling grid. Fiberglass insulated HVAC piping, fire sprinkler system piping and electrical conduit were also observed above the ceiling grid. We observed 2 suspended ceiling tile construction materials including cellulose composite and fiberglass tiles.

Carpet was glued with yellow mastic over beige vinyl composite tiles, glued to the structural concrete floor with black mastic in project offices, storage and reception areas. Crimson and gray tiles glued with yellow mastic to the concrete floor were observed in the seating/waiting area located south of the western first floor entrance. Tan floor tiles apparently replaced the beige tile in eastern project area corridors. Tan terrazzo patterned sheet vinyl was observed between the automatic doors in the western building entryway. Gray terrazzo patterned sheet vinyl was observed beneath carpet in a northern project area exam room while gray speckled sheet vinyl had been applied to northeastern exam room and restroom floors. Carpet tile was observed on floors in a short corridor located south of the northern exam rooms over leveling compound to which black mastic adhered from previous floor applications.

Visual Inspection

Our field activities began by visually observing the project area to locate and identify suspect ACM homogenous areas. A homogenous area is defined as an area in which the suspect material appears to be uniform in texture, color, wear and is believed to have been applied during the same general time period. Materials excluding wood, glass, concrete and metal were considered suspect.

Physical Assessment

Each suspect homogenous area was physically assessed to determine what, if any, damage the area has sustained and to evaluate whether the material should be classified as either intact or not intact. None of the suspect ACMs were assessed to be not intact. *Intact* means that the ACM has not crumbled, been pulverized, or otherwise deteriorated so that the asbestos is no longer likely to be bound within its matrix. Friable ACM that is disturbed is considered to be no longer intact.

Sample Collection

Based upon our visual observations, sampling strategies were established to meet the WAC 296-62-07721 (1), (c), (ii) "good faith" requirements and suspect material bulk sampling was performed by an AHERA accredited inspector. Random sampling, modified by physical access, was performed on each identified homogenous suspect ACM area. STRATA personnel performing sampling activities utilized appropriate personal protection. Additionally, sampling procedures included using engineering controls to reduce the risk of airborne fibers released during sample collection. A total of 42 material bulk samples were collected from 14 suspect homogenous areas in the project area. The following summarizes the homogenous areas sampled in the project area.

- Gypsum wallboard and joint compound
- Ceiling Tiles
- Tan Terrazzo Pattern Sheet Vinyl
- Gray Terrazzo Pattern Sheet Vinyl
- Gray Speckled Sheet Vinyl
- Leveling Compound
- Pipe Penetration Putty
- Beige Vinyl Composite Tile and Mastic
- Gray Vinyl Composite Tile and Mastic
- Crimson Vinyl Composite Tile and Mastic
- Beige Vinyl Composite Tile and Mastic
- Beige 4" Covebase
- Beige 6" Covebase
- Crimson 6" Covebase

Material Sample Analysis

Upon completing the on-site work portion, material bulk samples, accompanied by chain-of-custody forms, were sent to NVL Laboratories for analysis. Samples were analyzed using PLM coupled with dispersion staining as detailed in EPA's "*Test Method for the Determination of Asbestos in Bulk Building Materials*" (EPA 600/R-93/116). PLM is the EPA-recommended method for bulk sample analysis and utilizes the unique optical and crystallographic properties of the various constituents of the sample for material identification purposes. These properties, refractive indices, birefringence, sign of elongation and extinction angle, are characteristically unique to each asbestos-form and were used to identify asbestos types present in the samples.

A suspect ACM samples and analytical summary table, laboratory sample analysis sheets and copies of the chain-of-custody forms are included in Appendix B. Sample locations are illustrated on Plate 1, *Sample Location Plan*. Photographic documentation of the project area is included in Appendix C. The laboratory records denote layer identification and material composition by sample percentage.

Summary of Asbestos Analytical Results

Analytical testing identified 9 of the 42 samples as containing greater than 1 percent asbestos by weight. Therefore the tan terrazzo patterned sheet vinyl located between automatic doors in the western entry area and the black mastic associated with the beige vinyl composite tiles located underneath carpet are regulated as ACMs. The projected extent of the ACM black mastic, based upon field observations is shaded yellow on Plate 1, *Sample Location Plan*. A more detailed discussion of the identified and assumed ACMs follows the regulatory discussion in the *Identified ACMs* section of this letter.

Regulatory Discussion

Under current EPA, *United States Occupational Safety and Health Administration* (OSHA) and *Washington Industrial Safety and Health Act* (WISHA) regulations, material containing greater than 1 percent of an asbesti-form mineral is considered an ACM. Materials that have historically contained greater than 1 percent of an asbesti-form mineral in their composition may either be classified as an assumed ACM, or be sampled and analyzed to determine the actual percentages of asbesti-form minerals contained in their composition and subsequently be classified as an ACM or non-ACM. However, removing and disturbing building materials containing asbestos in concentrations less than 1 percent are regulated for worker protection.

NESHAP Classification: EPA National Emissions Standards for Hazardous Air Pollutants (NESHAP) regulations require identification and classification and strict consideration of existing building materials prior to beginning any renovation or demolition activity. NESHAP regulations are concerned with regulated ACM (RACM) including: all friable ACM; Category I nonfriable ACM that will be or has been subject to sanding, grinding, cutting, or abrading; Category II nonfriable ACM that has become friable; and Category II nonfriable ACM that has a high probability of becoming, or has become crumbled, pulverized, or reduced to a powder by forces expected to act on the material in the course of demolition or renovation activities. Category I nonfriable ACMs include asbestos-containing packings, gaskets, resilient floor covering, asphalt roofing products, and pliable asbestos containing sealants and mastics. Category II nonfriable ACMs include any material, excluding Category I nonfriable ACM, containing more than 1 percent asbestos that, when dry, cannot be crumbled, pulverized or reduced to powder by hand pressure (e.g. asbestos cement products).

WAC 296-62-07703 Definitions:

Class I asbestos work means activities involving the removal of thermal system insulation (TSI) or surfacing ACM/potential ACM (PACM).

Class II asbestos work means activities involving the removal of ACM which is not thermal system insulation or surfacing material. This includes, but is not limited to, the removal of asbestos-containing wallboard, floor tile and sheeting, roofing and siding and shingles, and construction mastics.

Class III asbestos work means repair and maintenance operations where ACM, including TSI and surfacing ACM/PACM, may be disturbed.

Class IV asbestos work means maintenance and custodial activities during which employees contact but do not disturb ACM or PACM and activities to clean up dust, waste and debris resulting from Class I, II and III activities.

Identified ACMs

The tan terrazzo patterned sheet vinyl was identified as an ACM and will require abatement prior to renovation by Washington Department of Labor and Industries (L&I) accredited personnel. Approximately 80 square feet of this material was observed on the western entry way floor. The sheet vinyl is not a surfacing material or TSI and therefore its abatement is considered Class II asbestos work. However, it is very difficult to remove the sheet vinyl from the concrete floors without tearing the asbestos containing paper backing and potentially releasing airborne asbestos fibers; therefore, STRATA recommends the sheet vinyl abatement be performed using Class I controls.

The black mastic associated with the beige vinyl composite tiles located beneath carpet is an ACM and will require abatement prior to renovation by L&I accredited personnel. Approximately 1,300 square feet of this material is anticipated to be impacted by the project, based upon our observations. The projected extent of the black mastic is provided in Plate 1, *Sample Location Plan.* The black mastic is not a surfacing material or TSI and therefore its abatement is considered Class II asbestos work. However, should the selected abatement contractor utilize a bead blaster for mastic removal, Class I controls will be required. STRATA recommends obtaining a unit, per square foot mastic abatement bid from abatement contractors because the actual extent of the black mastic was not wholly observable during our inspection.

LEAD PAINT TESTING

Lead paint sampling was performed on November 14, 2011 by Mr. Shawn Ringo with STRATA. Paint samples were delivered to NVL Laboratories in Seattle, Washington for analysis by flame atomic absorption (FAA) using EPA Method Number 7000B. NVL is accredited under the American Industrial Hygiene Association (AIHA) Laboratory Quality Assurance Program (LQAP), Laboratory ID 101861. A copy of the laboratory accreditation has been included within Appendix A. This accreditation included is for the current calendar time period only.

STRATA collected 3 paint samples from the beige paint applied to project area walls. Lead was not detected in the beige paint above laboratory detection limits. Copies of paint analytical test results are included in Appendix D.

EVALUATION LIMITATIONS

Materials with 1 or more positive asbestos or lead result(s) should be assumed positive throughout the project area. Quantity estimates are intended to provide order of magnitude information only.

This report is limited to the materials and activities described in this letter to aid in identifying asbestos and lead containing materials within the project area. Electrical and energized systems were not evaluated.

Destructive sampling beyond sampling activities described in this letter was not performed. Asbestos or lead containing materials may exist in inaccessible areas including but not limited to: energized systems, interstitial areas between walls, ceilings and floors, areas inaccessible without destructive sampling and areas restricted by activity and use limitations.

Our services consist of professional opinions made in accordance with generally accepted asbestos and painted coatings consulting and sampling principles and practices, as they exist at the time of this report and in eastern Washington. This acknowledgment is in lieu of all express or implied warranties. This letter has been prepared exclusively for the use of WSU; we cannot be responsible for any other use of this information. This letter should be read and implemented in its entirety. Individual sections of this letter cannot be relied upon outside the context of the letter. The information is relevant to the dates of our site work, and should not be relied on to represent conditions at a substantially later date.

The scope of services for this project were limited to visual observation of suspect ACMs and painted coatings, collection of bulk material samples, and reporting analytical test results as part of the good faith inspection. We understand that WSU has qualified professionals that will interpret the analytical test results and develop an appropriate project approach with respect to ACMs and lead containing paint. As such, this letter does not contain recommendations addressing the identified lead containing paints since this is outside STRATA's scope of services on this project. WSU is responsible for identifying all appropriate federal, state and local regulations and ensuring that they are in compliance with said regulations.

We appreciate the opportunity to assist you on this project. If you have any questions, please contact us.

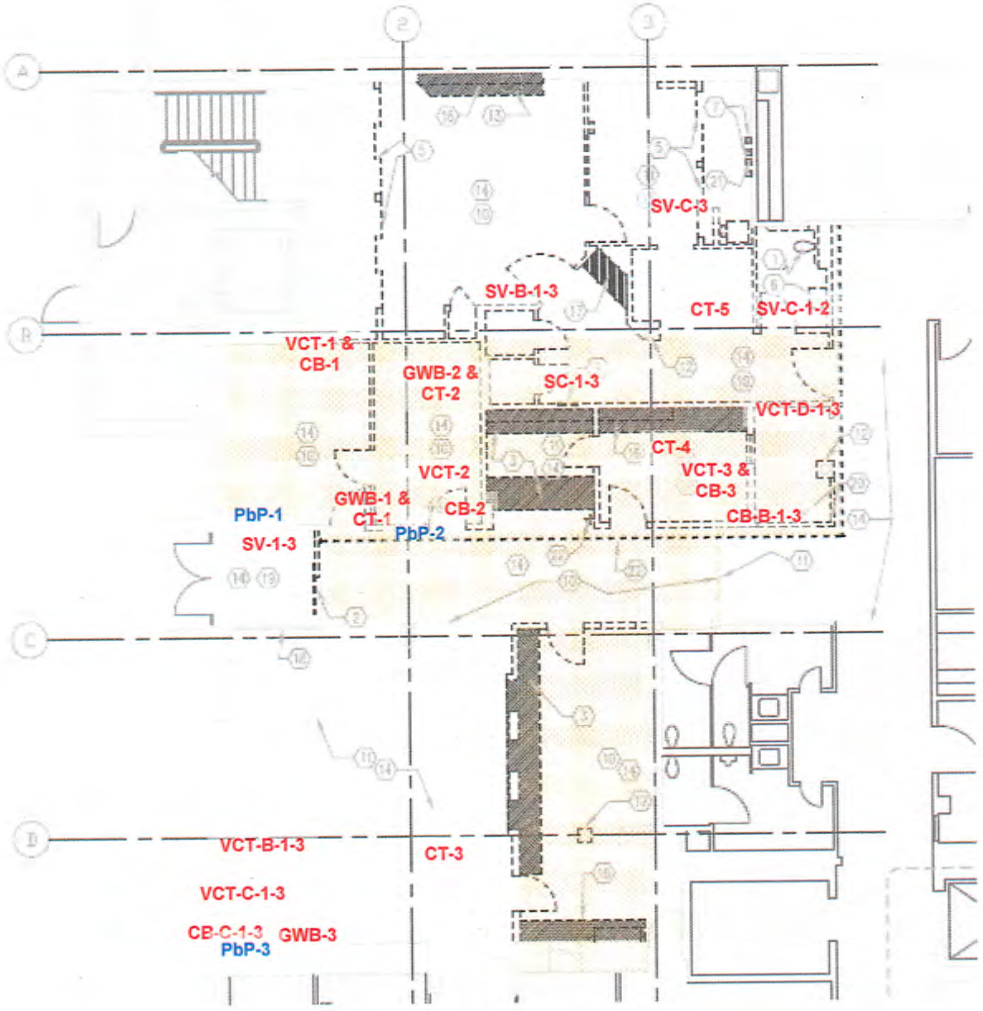
Sincerely,
STRATA, Inc.



Shawn Ringo
Project Manager

Enclosures:

Figure 1:	Sample Location Plan
Appendix A:	Laboratory Accreditation and Asbestos Inspector Certification Information
Appendix B:	Asbestos Analytical Laboratory Test Results and Chain of Custody Forms
Appendix C:	Photographic Documentation
Appendix D:	Lead Analytical Laboratory Test Results and Chain of Custody Forms



N

0 10 feet

GWB-1 Asbestos Sample Locations
PbP-1 Lead Paint Sample Locations
Projected Extent of ACM Black Mastic

VICINITY MAP
NOT TO SCALE



Washington Building Pharmacy Relocation Sample Location Plan

STRATA
A Professional Services Corporation
Integrity From the Ground Up

WASUNI W11135A	Plate 1

Note: Sample locations are approximate. Reference: Base drawing provided by WSU Capital Planning and Development.

APPENDIX A

Laboratory Accreditation and Asbestos Inspector Certification Information

Attachment C: Washington Building Good Faith Hazardous Material Survey

Certificate of Completion

This is to certify that

Shawn P. Ringo

has satisfactorily completed
4 hours of refresher training as an

Asbestos Building Inspector

to comply with the training requirements of
TSCA Title II / 40 CFR 763 (AHERA)

Instructor

EPA Provider Cert. Number: 1085

113337
Certificate Number

ARGUS PACIFIC
TRAINING • CONSULTING

Aug 24, 2011
Date(s) of Training

Exam Score: NA

Expiration Date: Aug 23, 2012

Argus Pacific, Inc. • 1900 W. Nickerson, Suite 315 • Seattle, Washington • 98119 • 206.285.3373 • fax 206.285.3927

Attachment C: Washington Building Good Faith Hazardous Material Survey

ilac-MRA

AIHA
Laboratory Accreditation Programs, LLC

AIHA Laboratory Accreditation Programs, LLC

acknowledges that

NVL Laboratories, Inc.

4708 Aurora Avenue North, Seattle, WA 98103

Laboratory ID: 101861

along with all premises from which key activities are performed, as listed above, has fulfilled the requirements of the AIHA Laboratory Accreditation Programs (AIHA-LAP), LLC accreditation to the ISO/IEC 17025:2005 international standard, *General Requirements for the Competence of Testing and Calibration Laboratories in t*he following:

LABORATORY ACCREDITATION PROGRAMS

✓	**INDUSTRIAL HYGIENE**	Accreditation Expires: 05/01/2013
✓	**ENVIRONMENTAL LEAD**	Accreditation Expires: 05/01/2013
✓	**ENVIRONMENTAL MICROBIOLOGY**	Accreditation Expires: 05/01/2013
☐	**FOOD**	Accreditation Expires:

Specific Field(s) of Testing (FoT)/Method(s) within each Accreditation Program for which the above named laboratory maintains accreditation is outlined on the attached **Scope of Accreditation**. Continued accreditation is contingent upon successful on-going compliance with ISO/IEC 17025:2005 and AIHA-LAP, LLC requirements. This certificate is not valid without the attached **Scope of Accreditation**. Please review the AIHA-LAP, LLC website (www.aihaaccreditedlabs.org) for the most current Scope.

Christine Powell

Christine Powell

Chairperson, Analytical Accreditation Board

Cheryl O. Morton

Cheryl O. Morton

Director, AIHA Laboratory Accreditation Programs, LLC

Revision 10: 01/13/2011

Date Issued: 05/01/2011

AIHA
Laboratory Accreditation Programs, LLC

AIHA Laboratory Accreditation Programs, LLC
SCOPE OF ACCREDITATION

NVL Laboratories, Inc.
4708 Aurora Avenue North, Seattle, WA 98103

Laboratory ID: **101861**
Issue Date: 05/01/2011

The laboratory is approved for those specific field(s) of testing/methods listed in the table below. Clients are urged to verify the laboratory's current accreditation status for the particular field(s) of testing/Methods, since these can change due to proficiency status, suspension and/or revocation. A complete listing of currently accredited Industrial Hygiene laboratories is available on the AIHA-LAP, LLC website at: http://www.aihaaccreditedlabs.org

Industrial Hygiene Laboratory Accreditation Program (IHLAP)

Initial Accreditation Date: 04/01/1997

IHLAP Scope Category	Field of Testing (FoT)	Technology sub-type/ Detector	Published Reference Method/Title of In-house Method	Method Description or Analyte *(for internal methods only)*
Spectrometry Core	Atomic Absorption	FAA	NIOSH 7024	
			NIOSH 7030	
			NIOSH 7048	
			NIOSH 7082	
	Inductively-Coupled Plasma	ICP/AES	EPA SW-846 3051	
			NIOSH 7300	
Asbestos/Fiber Microscopy Core	Phase Contrast Microscopy (PCM)		NIOSH 7400	
Miscellaneous Core	Gravimetric		NIOSH 0500	
			NIOSH 0600	

AIHA

Laboratory Accreditation Programs, LLC

The laboratory participates in the following AIHA-LAP, LLC-approved proficiency testing programs:

- √ AIHA-PAT Programs, LLC IHPAT Metals
- ☐ AIHA-PAT Programs, LLC IHPAT Organic Solvents
- √ AIHA-PAT Programs, LLC IHPAT Silica
- ☐ AIHA-PAT Programs, LLC IHPAT Diffusive Sampler (3M)
- ☐ AIHA-PAT Programs, LLC IHPAT Diffusive Sampler (SKC)
- ☐ AIHA-PAT Programs, LLC IHPAT Diffusive Sampler (AT)
- √ AIHA-PAT Programs, LLC IHPAT Asbestos
- ☐ AIHA-PAT Programs, LLC Bulk Asbestos (BAPAT)
- ☐ AIHA-PAT Programs, LLC Beryllium (BePAT)
- ☐ HSE Workplace Analytical Scheme for Proficiency (WASP) (Formaldehyde)
- ☐ HSE Workplace Analytical Scheme for Proficiency (WASP) (Thermal Desorption Tubes)
- ☐ Pharmaceutical Round Robin
- ☐ Compressed/Breathing Air Round Robin
- ☐ National Voluntary Laboratory Accreditation Program (NVLAP - determined at the time of site assessment)
- ☐ New York State Department of Health (NYS DOH – PCM and TEM)
- ☐ ERA Air and Emissions standards for indoor air quality
- ☐ Institut für Arbeitsschutz der Deutschen Gesetzlichen Unfallversicherung (IFA, formerly BGIA)
- ☐ Institut de Recherche Robert-Sauvé en Santé et en Sécurité du Travail (IRSST)

AIHA

Laboratory Accreditation Programs, LLC

AIHA Laboratory Accreditation Programs, LLC
SCOPE OF ACCREDITATION

NVL Laboratories, Inc.
4708 Aurora Avenue N., Seattle, WA 98103

Laboratory ID: **101861**
Issue Date: 05/24/2011

The laboratory is approved for those specific field(s) of testing/methods listed in the table below. Clients are urged to verify the laboratory's current accreditation status for the particular field(s) of testing/Methods, since these can change due to proficiency status, suspension and/or revocation. A complete listing of currently accredited Environmental Lead laboratories is available on the AIHA-LAP, LLC website at: http://www.aihaaccreditedlabs.org

The EPA recognizes the AIHA-LAP, LLC ELLAP program as meeting the requirements of the National Lead Laboratory Accreditation Program (NLLAP) established under Title X of the Residential Lead-Based Paint Hazard Reduction Act of 1992 and includes paint, soil and dust wipe analysis. Air analysis is not included as part of the NLLAP.

Environmental Lead Laboratory Accreditation Program (ELLAP)

Initial Accreditation Date: 02/07/1997

Field of Testing (FoT)	Method	Method Description *(for internal methods only)*
Paint	16 CFR Part 1303 (CPSC-CH-E1003-09)	
	EPA SW-846 3051	
	EPA SW-846 7000B	
Soil	EPA SW-846 3051	
	EPA SW-846 7000B	
Settled Dust by Wipe	EPA SW-846 3051	
	EPA SW-846 7000B	
Airborne Dust	EPA SW-846 3051	
	NIOSH 7082	

The laboratory participates in the following AIHA-LAP, LLC-approved proficiency testing programs:

- ✓ Paint
- ✓ Soil
- ✓ Settled Dust by Wipe
- ✓ Airborne Dust

AIHA
Laboratory Accreditation Programs, LLC

AIHA Laboratory Accreditation Programs, LLC
SCOPE OF ACCREDITATION

NVL Laboratories, Inc.
4708 Aurora Avenue North, Seattle, WA 98103

Laboratory ID: **101861**
Issue Date: 05/01/2011

The laboratory is approved for those specific field(s) of testing/methods listed in the table below. Clients are urged to verify the laboratory's current accreditation status for the particular field(s) of testing/Methods, since these can change due to proficiency status, suspension and/or revocation. A complete listing of currently accredited Environmental Microbiology laboratories is available on the AIHA-LAP, LLC website at: http://www.aihaaccreditedlabs.org

Environmental Microbiology Laboratory Accreditation Program (EMLAP)

Initial Accreditation Date: 02/01/2007

EMLAP Category	Field of Testing (FoT)	Method	Method Description *(for internal methods only)*
Fungal	**Bulk - Direct Examination**	SOP 12.130	In-House: Analysis of Bulk and Surface for Fungi
	Surface - Direct Examination	SOP 12.130	In-House: Analysis of Bulk and Surface for Fungi

The laboratory participates in the following AIHA-LAP, LLC-approved proficiency testing programs:

- √ Fungal Culturable
- ☐ Bacterial Culturable
- ☐ Fungal Direct Examination

Attachment C: Washington Building Good Faith Hazardous Material Survey

United States Department of Commerce
National Institute of Standards and Technology

NVLAP®

Certificate of Accreditation to ISO/IEC 17025:2005

NVLAP LAB CODE: 102063-0

NVL Laboratories, Inc.

Seattle, WA

is accredited by the National Voluntary Laboratory Accreditation Program for specific services, listed on the Scope of Accreditation, for:

BULK ASBESTOS FIBER ANALYSIS

This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2005. This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory quality management system (refer to joint ISO-ILAC-IAF Communique dated January 2009).

2011-10-01 through 2012-09-30

Effective dates

DEPARTMENT OF COMMERCE * UNITED STATES OF AMERICA *

Sally S. Bruce

For the National Institute of Standards and Technology

NVLAP-01C (REV. 2009-01-28)

NVLAP® National Voluntary Laboratory Accreditation Program

SCOPE OF ACCREDITATION TO ISO/IEC 17025:2005

NVL Laboratories, Inc.
4708 Aurora Avenue N.
Seattle, WA 98103
Mr. Nghiep Vi Ly
Phone: 206-547-0100 Fax: 206-634-1936
E-Mail: nick.l@nvllabs.com
URL: http://www.nvllabs.com

BULK ASBESTOS FIBER ANALYSIS (PLM) **NVLAP LAB CODE 102063-0**

NVLAP Code	*Designation / Description*
18/A01	EPA-600/M4-82-020: Interim Method for the Determination of Asbestos in Bulk Insulation Samples

2011-10-01 through 2012-09-30
Effective dates

Sally S. Bruce
For the National Institute of Standards and Technology

APPENDIX B

Asbestos Analytical Laboratory Test Results and Chain of Custody Forms

Asbestos Summary Table

Sample #	Building Name	Sample Location	Material	Type	Color	Location Quantity	Quant descriptor	Comments	Sample results	ACM?
M11135A-GWB-1	Washington Building	Western Office	Gypsum Wallboard and Joint Compound	M	Painted Beige	5,600	SF	Sample 1 of 3	No Asbestos Detected	N
M11135A-GWB-2	Washington Building	Central Office	Gypsum Wallboard and Joint Compound	M	Painted Beige	5,600	SF	Sample 2 of 3	No Asbestos Detected	N
M11135A-GWB-3	Washington Building	Waiting Area	Gypsum Wallboard and Joint Compound	M	Painted Beige	5,600	SF	Sample 3 of 3	No Asbestos Detected	N
M11135A-CT-1	Washington Building	Western Office	Suspended Ceiling Tile	M	White	3,750	SF	Sample 1 of 5	No Asbestos Detected	N
M11135A-CT-2	Washington Building	Central Office	Suspended Ceiling Tile	M	White	3,750	SF	Sample 2 of 5	No Asbestos Detected	N
M11135A-CT-3	Washington Building	Waiting Area	Suspended Ceiling Tile	M	White	3,750	SF	Sample 3 of 5	No Asbestos Detected	N
M11135A-CT-4	Washington Building	Central Reception Area	Suspended Ceiling Tile	M	White	3,750	SF	Sample 4 of 5	No Asbestos Detected	N
M11135A-CT-5	Washington Building	Northern Exam Rooms	Suspended Ceiling Tile	M	White	3,750	SF	Sample 5 of 5	No Asbestos Detected	N

Asbestos Summary Table

Sample #	Building Name	Sample Location	Material	Type	Color	Location Quantity	Quant descriptor	Comments	Sample results	ACM?
M11135A-SV-1	**Washington Building**	**Western Entrance**	**Sheet Vinyl**	**M**	**Tan Terrazzo Pattern**	**80**	**SF**	**Sample 1 of 3**	**65% Chrysotile**	**Y**
M11135A-SV-2	**Washington Building**	**Western Entrance**	**Sheet Vinyl**	**M**	**Tan Terrazzo Pattern**	**80**	**SF**	**Sample 2 of 3**	**67% Chrysotile**	**Y**
M11135A-SV-3	**Washington Building**	**Western Entrance**	**Sheet Vinyl**	**M**	**Tan Terrazzo Pattern**	**80**	**SF**	**Sample 3 of 3**	**62% Chrysotile**	**Y**
M11135A-SV-B-1	Washington Building	Northwest Exam/MRI Room	Sheet Vinyl	M	Gray Terrazzo Pattern	400	SF	Sample 1 of 3	No Asbestos Detected	N
M11135A-SV-B-2	Washington Building	Northwest Exam/MRI Room	Sheet Vinyl	M	Gray Terrazzo Pattern	400	SF	Sample 2 of 3	No Asbestos Detected	N
M11135A-SV-B-3	Washington Building	Northwest Exam/MRI Room	Sheet Vinyl	M	Gray Terrazzo Pattern	400	SF	Sample 3 of 3	No Asbestos Detected	N
M11135A-PP-1	Washington Building	Western Office	Pipe Penetration Putty	M	Off-White	20	EA	Sample 1 of 1	No Asbestos Detected	N
M11135A-SV-C-1	Washington Building	North Restroom	Sheet Vinyl	M	Gray Speckled Pattern	400	SF	Sample 1 of 3	No Asbestos Detected	N

Asbestos Summary Table

Sample #	Building Name	Sample Location	Material	Type	Color	Location Quantity	Quant descriptor	Comments	Sample results	ACM?
M11135A-SV-C-2	Washington Building	North Restroom	Sheet Vinyl	M	Gray Speckled Pattern	400	SF	Sample 2 of 3	No Asbestos Detected	N
M11135A-SV-C-3	Washington Building	North Exam Room	Sheet Vinyl	M	Gray Speckled Pattern	400	SF	Sample 3 of 3	No Asbestos Detected	N
M11135A-VCT-1	**Washington Building**	**Western Office**	**Vinyl Composite Tile and Mastic**	**M**	**Beige**	**1,300**	**SF**	**Sample 1 of 3**	No Asbestos Detected Tile, **5% Chrysotile Mastic**	**Y**
M11135A-VCT-2	**Washington Building**	**Central Office**	**Vinyl Composite Tile and Mastic**	**M**	**Beige**	**1,300**	**SF**	**Sample 2 of 3**	No Asbestos Detected Tile, **5% Chrysotile Mastic**	**Y**
M11135A-VCT-3	**Washington Building**	**Central Reception Area**	**Vinyl Composite Tile and Mastic**	**M**	**Beige**	**1,300**	**SF**	**Sample 3 of 3**	No Asbestos Detected Tile, **4% Chrysotile Mastic**	**Y**
M11135A-VCT-B-1	Washington Building	Waiting Area	Vinyl Composite Tile and Mastic	M	Gray	330	SF	Sample 1 of 3	No Asbestos Detected	N
M11135A-VCT-B-2	Washington Building	Waiting Area	Vinyl Composite Tile and Mastic	M	Gray	330	SF	Sample 2 of 3	No Asbestos Detected	N
M11135A-VCT-B-3	Washington Building	Waiting Area	Vinyl Composite Tile and Mastic	M	Gray	330	SF	Sample 3 of 3	No Asbestos Detected	N

Asbestos Summary Table

Sample #	Building Name	Sample Location	Material	Type	Color	Location Quantity	Quant descriptor	Comments	Sample results	ACM?
M11135A-VCT-C-1	Washington Building	Waiting Area	Vinyl Composite Tile and Mastic	M	Crimson	330	SF	Sample 1 of 3	No Asbestos Detected	N
M11135A-VCT-C-2	Washington Building	Waiting Area	Vinyl Composite Tile and Mastic	M	Crimson	330	SF	Sample 2 of 3	No Asbestos Detected	N
M11135A-VCT-C-3	Washington Building	Waiting Area	Vinyl Composite Tile and Mastic	M	Crimson	330	SF	Sample 3 of 3	No Asbestos Detected	N
M11135A-VCT-D-1	Washington Building	Eastern Corridor	Vinyl Composite Tile and Mastic	M	Crimson	270	SF	Sample 1 of 3	No Asbestos Detected	N
M11135A-VCT-D-2	Washington Building	Eastern Corridor	Vinyl Composite Tile and Mastic	M	Crimson	270	SF	Sample 2 of 3	No Asbestos Detected	N
M11135A-VCT-D-3	Washington Building	Eastern Corridor	Vinyl Composite Tile and Mastic	M	Crimson	270	SF	Sample 3 of 3	No Asbestos Detected	N
M11135A-SC-1	**Washington Building**	**Exam Room Corridor**	**Leveling Compound**	**S**	**Off-White**	**50**	**SF**	**Sample 1 of 3**	No Asbestos Detected Compound, **4% Chrysotile Mastic**	**Y**
M11135A-SC-2	**Washington Building**	**Exam Room Corridor**	**Leveling Compound**	**S**	**Off-White**	**50**	**SF**	**Sample 2 of 3**	No Asbestos Detected Compound, **5% Chrysotile Mastic**	**Y**

Asbestos Summary Table										
Sample #	Building Name	Sample Location	Material	Type	Color	Location Quantity	Quant descriptor	Comments	Sample results	ACM?
M11135A-SC-3	**Washington Building**	**Exam Room Corridor**	**Leveling Compound**	**S**	**Off-White**	**50**	**SF**	**Sample 3 of 3**	No Asbestos Detected Compound, **5% Chrysotile Mastic**	**Y**
M11135A-CB-1	Washington Building	Western Office	Covebase and Mastic	M	Beige 4"	175	LF	Sample 1 of 3	No Asbestos Detected	N
M11135A-CB-2	Washington Building	Central Office	Covebase and Mastic	M	Beige 4"	175	LF	Sample 2 of 3	No Asbestos Detected	N
M11135A-CB-3	Washington Building	Central Reception Area	Covebase and Mastic	M	Beige 4"	175	LF	Sample 3 of 3	No Asbestos Detected	N
M11135A-CB-B-1	Washington Building	Eastern Corridor	Covebase and Mastic	M	Tan 6"	90	LF	Sample 1 of 3	No Asbestos Detected	N
M11135A-CB-B-2	Washington Building	Eastern Corridor	Covebase and Mastic	M	Tan 6"	90	LF	Sample 2 of 3	No Asbestos Detected	N
M11135A-CB-B-3	Washington Building	Eastern Corridor	Covebase and Mastic	M	Tan 6"	90	LF	Sample 3 of 3	No Asbestos Detected	N
M11135A-CB-C-1	Washington Building	Waiting Area	Covebase and Mastic	M	Crimson 6"	100	LF	Sample 1 of 3	No Asbestos Detected	N

Asbestos Summary Table

Sample #	Building Name	Sample Location	Material	Type	Color	Location Quantity	Quant descriptor	Comments	Sample results	ACM?
M11135A-CB-C-2	Washington Building	Waiting Area	Covebase and Mastic	M	Crimson 6"	100	LF	Sample 2 of 3	No Asbestos Detected	N
M11135A-CB-C-3	Washington Building	Waiting Area	Covebase and Mastic	M	Crimson 6"	100	LF	Sample 3 of 3	No Asbestos Detected	N

HAZARDOUS MATERIALS
MANAGEMENT • TRAINING • LAB SERVICES

November 17, 2011

NVL™
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Shawn Ringo
Strata
1428 S Main St.
Moscow, ID 83843

RE: Bulk Asbestos Fiber Analysis, NVL Batch # 3115987.00

Dear Mr. Ringo,

Enclosed please find test results for the bulk samples submitted to our laboratory for analysis. Examination of these samples was conducted for the presence of identifiable asbestos fibers using polarized light microscopy (PLM) with dispersion staining in accordance with U.S. EPA/600/R-93/116 Test Method.

For samples containing more than one separable layer of materials, the report will include findings for each layer (labeled Layer 1 and Layer 2, etc. for each individual layer). The asbestos concentration in the sample is determined by visual estimation.

For those samples with asbestos concentrations between 1 and 10 percent based on visual estimation, the EPA recommends a procedure known as point counting (NESHAPS, 40 CFR Part 61). Point counting is a statistically more accurate means of quantification for samples with low concentrations of asbestos. If you would like us to further refine the concentration estimates of asbestos in these samples using point counting, please let me know.

This report is considered highly confidential and will not be released without your approval. Samples are archived for two weeks following analysis. Samples that are not retrieved by the client are discarded after two weeks.

Thank you for using our laboratory services. Please do not hesitate to call if there is anything further we can assist you with.

Sincerely,

Nick Ly, Technical Director

NVLAP Lab Code 102063-0

Enc.: Sample Results

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nvllabs@nvllabs.com

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1.888.NVL.LABS (685.5227)

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NVLAP
For the scope of accreditation under NVLAP Lab Code 102063-0

Bulk Asbestos Fibers Analysis

By Polarized Light Microscopy

Client: Strata
Address: 1428 S Main St.
Moscow, ID 83843

Attention: Mr. Shawn Ringo
Project Location: Washington Building

Batch #: 3115987.00
Client Project #: WASUNI
Date Received: 11/16/2011
Samples Received: 15
Samples Analyzed: 15
Method: EPA/600R-93/116

Lab ID: 31084553 **Client Sample #: GWB-1**
Location: Washington Building

Layer 1 of 2	**Description:** Off-white compacted powdery material		
	Non-Fibrous Materials:	Other Fibrous Materials: %	**Asbestos Type: %**
	Calcareous particles, Binder/Filler	None Detected ND	**None Detected ND**
Layer 2 of 2	**Description:** Off-white chalky material with paper		
	Non-Fibrous Materials:	Other Fibrous Materials: %	**Asbestos Type: %**
	Fine particles, Gypsum/Binder	Cellulose 18%	**None Detected ND**
		Glass fibers 2%	

Lab ID: 31084554 **Client Sample #: GWB-2**
Location: Washington Building

Layer 1 of 2	**Description:** Off-white compacted powdery material		
	Non-Fibrous Materials:	Other Fibrous Materials: %	**Asbestos Type: %**
	Calcareous particles, Binder/Filler	None Detected ND	**None Detected ND**
Layer 2 of 2	**Description:** Off-white chalky material with paper		
	Non-Fibrous Materials:	Other Fibrous Materials: %	**Asbestos Type: %**
	Fine particles, Gypsum/Binder	Cellulose 15%	**None Detected ND**
		Glass fibers 2%	

Lab ID: 31084555 **Client Sample #: GWB-3**
Location: Washington Building

Layer 1 of 2	**Description:** Off-white compacted powdery material		
	Non-Fibrous Materials:	Other Fibrous Materials: %	**Asbestos Type: %**
	Calcareous particles, Binder/Filler	None Detected ND	**None Detected ND**
Layer 2 of 2	**Description:** Off-white chalky material with paper		
	Non-Fibrous Materials:	Other Fibrous Materials: %	**Asbestos Type: %**
	Fine particles, Gypsum/Binder	Cellulose 19%	**None Detected ND**

Sampled by: Client
Analyzed by: Nadezhda Prysyazhnyuk **Date:** 11/17/2011
Reviewed by: Nick Ly **Date:** 11/17/2011

Nick Ly, Technical Director

Note: If samples are not homogeneous, then subsamples of the components were analyzed separately. All bulk samples are analyzed using EPA 600/R-93/116 Method with the following measurement uncertainties for the reported % Asbestos (1%=0-3%, 5%=1-9%, 10%=5-15%, 20%=10-30%, 50%=40-60%). This report relates only to the items tested. If sample was not collected by NVL personnel, then the accuracy of the results is limited by the methodology and acuity of the sample collector. This report shall not be reproduced except in full, without written approval of NVL Laboratories, Inc. It shall not be used to claim product endorsement by NVLAP or any other agency of the US Government.

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NVLAP
For the scope of accreditation under NVLAP Lab Code 102063-0

Bulk Asbestos Fibers Analysis

By Polarized Light Microscopy

Client: Strata
Address: 1428 S Main St.
Moscow, ID 83843

Attention: Mr. Shawn Ringo
Project Location: Washington Building

Batch #: 3115987.00
Client Project #: WASUNI
Date Received: 11/16/2011
Samples Received: 15
Samples Analyzed: 15
Method: EPA/600R-93/116

		Glass fibers 1%	

Lab ID: 31084556 **Client Sample #: CT-1**
Location: Washington Building
Layer 1 of 1 **Description:** Light gray compressed fibrous material with paint

Non-Fibrous Materials:	Other Fibrous Materials:%	**Asbestos Type: %**
Fine particles, Perlite, Glass beads	Cellulose 45%	**None Detected ND**
Paint	Glass fibers 30%	

Lab ID: 31084557 **Client Sample #: CT-2**
Location: Washington Building
Layer 1 of 1 **Description:** Light gray compressed fibrous material with trace paint

Non-Fibrous Materials:	Other Fibrous Materials:%	**Asbestos Type: %**
Fine particles, Perlite, Glass beads	Cellulose 48%	**None Detected ND**
Paint	Glass fibers 27%	

Lab ID: 31084558 **Client Sample #: CT-3**
Location: Washington Building
Layer 1 of 1 **Description:** Light gray compressed fibrous material with trace paint

Non-Fibrous Materials:	Other Fibrous Materials:%	**Asbestos Type: %**
Fine particles, Perlite, Glass beads	Cellulose 44%	**None Detected ND**
Paint	Glass fibers 32%	

Lab ID: 31084559 **Client Sample #: CT-4**
Location: Washington Building
Layer 1 of 1 **Description:** Light gray compressed fibrous material with paint

Non-Fibrous Materials:	Other Fibrous Materials:%	**Asbestos Type: %**
Fine particles, Perlite, Glass beads	Cellulose 40%	**None Detected ND**
Paint	Glass fibers 35%	

Sampled by: Client
Analyzed by: Nadezhda Prysyazhnyuk **Date:** 11/17/2011
Reviewed by: Nick Ly **Date:** 11/17/2011

Nick Ly, Technical Director

Note: If samples are not homogeneous, then subsamples of the components were analyzed separately. All bulk samples are analyzed using EPA 600/R-93/116 Method with the following measurement uncertainties for the reported % Asbestos (1%=0-3%, 5%=1-9%, 10%=5-15%, 20%=10-30%, 50%=40-60%). This report relates only to the items tested. If sample was not collected by NVL personnel, then the accuracy of the results is limited by the methodology and acuity of the sample collector. This report shall not be reproduced except in full, without written approval of NVL Laboratories, Inc. It shall not be used to claim product endorsement by NVLAP or any other agency of the US Government.

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Bulk Asbestos Fibers Analysis

By Polarized Light Microscopy

Client: Strata
Address: 1428 S Main St.
Moscow, ID 83843

Attention: Mr. Shawn Ringo
Project Location: Washington Building

Batch #: 3115987.00
Client Project #: WASUNI
Date Received: 11/16/2011
Samples Received: 15
Samples Analyzed: 15
Method: EPA/600R-93/116

Lab ID: 31084560 **Client Sample #: CT-5**
Location: Washington Building

Layer 1 of 1	**Description:** Light gray compressed fibrous material with paint		
	Non-Fibrous Materials:	Other Fibrous Materials: %	**Asbestos Type: %**
	Fine particles, Perlite, Glass beads	Cellulose 42%	**None Detected ND**
	Paint	Glass fibers 30%	

Lab ID: 31084561 **Client Sample #: SV-1**
Location: Washington Building

Layer 1 of 3	**Description:** Beige patterned sheet vinyl		
	Non-Fibrous Materials:	Other Fibrous Materials: %	**Asbestos Type: %**
	Calcareous particles, Vinyl/Binder	None Detected ND	**None Detected ND**
Layer 2 of 3	**Description:** Light gray fibrous backing with mastic		
	Non-Fibrous Materials:	Other Fibrous Materials: %	**Asbestos Type: %**
	Fine particles, Binder/Filler, Mastic/Binder	None Detected ND	**Chrysotile 65%**
Layer 3 of 3	**Description:** Off-white chalky material		
	Non-Fibrous Materials:	Other Fibrous Materials: %	**Asbestos Type: %**
	Gypsum/Binder	Cellulose 3%	**None Detected ND**

Lab ID: 31084562 **Client Sample #: SV-2**
Location: Washington Building

Layer 1 of 2	**Description:** Beige patterned sheet vinyl		
	Non-Fibrous Materials:	Other Fibrous Materials: %	**Asbestos Type: %**
	Calcareous particles, Vinyl/Binder	None Detected ND	**None Detected ND**
Layer 2 of 2	**Description:** Light gray fibrous backing		
	Non-Fibrous Materials:	Other Fibrous Materials: %	**Asbestos Type: %**
	Fine particles, Binder/Filler	None Detected ND	**Chrysotile 67%**

Sampled by: Client
Analyzed by: Nadezhda Prysyazhnyuk **Date:** 11/17/2011
Reviewed by: Nick Ly **Date:** 11/17/2011

Nick Ly, Technical Director

Note: If samples are not homogeneous, then subsamples of the components were analyzed separately. All bulk samples are analyzed using EPA 600/R-93/116 Method with the following measurement uncertainties for the reported % Asbestos (1%=0-3%, 5%=1-9%, 10%=5-15%, 20%=10-30%, 50%=40-60%). This report relates only to the items tested. If sample was not collected by NVL personnel, then the accuracy of the results is limited by the methodology and acuity of the sample collector. This report shall not be reproduced except in full, without written approval of NVL Laboratories, Inc. It shall not be used to claim product endorsement by NVLAP or any other agency of the US Government.

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Bulk Asbestos Fibers Analysis

By Polarized Light Microscopy

Client: Strata
Address: 1428 S Main St.
Moscow, ID 83843

Attention: Mr. Shawn Ringo
Project Location: Washington Building

Batch #: 3115987.00
Client Project #: WASUNI
Date Received: 11/16/2011
Samples Received: 15
Samples Analyzed: 15
Method: EPA/600R-93/116

Lab ID: 31084563 **Client Sample #: SV-3**
Location: Washington Building

Layer 1 of 2	**Description:** Beige patterned sheet vinyl			
	Non-Fibrous Materials:	Other Fibrous Materials:	%	**Asbestos Type: %**
	Calcareous particles, Vinyl/Binder	None Detected	ND	**None Detected ND**
Layer 2 of 2	**Description:** Light gray fibrous backing			
	Non-Fibrous Materials:	Other Fibrous Materials:	%	**Asbestos Type: %**
	Fine particles, Binder/Filler	Cellulose	3%	**Chrysotile 62%**

Lab ID: 31084564 **Client Sample #: SV-B-1**
Location: Washington Building

Layer 1 of 3	**Description:** Tan soft mastic			
	Non-Fibrous Materials:	Other Fibrous Materials:	%	**Asbestos Type: %**
	Mastic/Binder	None Detected	ND	**None Detected ND**
Layer 2 of 3	**Description:** Off-white/gray patterned sheet vinyl			
	Non-Fibrous Materials:	Other Fibrous Materials:	%	**Asbestos Type: %**
	Calcareous particles, Vinyl/Binder	None Detected	ND	**None Detected ND**
Layer 3 of 3	**Description:** Light gray fibrous backing with mastic			
	Non-Fibrous Materials:	Other Fibrous Materials:	%	**Asbestos Type: %**
	Fine particles, Binder/Filler, Mastic/Binder	Cellulose	30%	**None Detected ND**
		Synthetic fibers	8%	
		Glass fibers	3%	

Lab ID: 31084565 **Client Sample #: SV-B-2**
Location: Washington Building

Layer 1 of 3	**Description:** Tan soft mastic			
	Non-Fibrous Materials:	Other Fibrous Materials:	%	**Asbestos Type: %**
	Mastic/Binder	None Detected	ND	**None Detected ND**

Sampled by: Client
Analyzed by: Nadezhda Prysyazhnyuk **Date:** 11/17/2011
Reviewed by: Nick Ly **Date:** 11/17/2011

Nick Ly, Technical Director

Note: If samples are not homogeneous, then subsamples of the components were analyzed separately. All bulk samples are analyzed using EPA 600/R-93/116 Method with the following measurement uncertainties for the reported % Asbestos (1%=0-3%, 5%=1-9%, 10%=5-15%, 20%=10-30%, 50%=40-60%). This report relates only to the items tested. If sample was not collected by NVL personnel, then the accuracy of the results is limited by the methodology and acuity of the sample collector. This report shall not be reproduced except in full, without written approval of NVL Laboratories, Inc. It shall not be used to claim product endorsement by NVLAP or any other agency of the US Government.

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For the scope of accreditation under NVLAP Lab Code 102063-0

Bulk Asbestos Fibers Analysis

By Polarized Light Microscopy

Client: Strata
Address: 1428 S Main St.
Moscow, ID 83843

Attention: Mr. Shawn Ringo
Project Location: Washington Building

Batch #: 3115987.00
Client Project #: WASUNI
Date Received: 11/16/2011
Samples Received: 15
Samples Analyzed: 15
Method: EPA/600R-93/116

Layer 2 of 3	**Description:** Off-white/gray patterned sheet vinyl			
	Non-Fibrous Materials:	Other Fibrous Materials:	%	**Asbestos Type: %**
	Calcareous particles, Vinyl/Binder	None Detected	ND	**None Detected ND**
Layer 3 of 3	**Description:** Light gray fibrous backing with mastic			
	Non-Fibrous Materials:	Other Fibrous Materials:	%	**Asbestos Type: %**
	Fine particles, Binder/Filler, Mastic/Binder	Cellulose	35%	**None Detected ND**
		Synthetic fibers	6%	
		Glass fibers	3%	

Lab ID: 31084566 **Client Sample #: SV-B-3**
Location: Washington Building

Layer 1 of 4	**Description:** Tan soft mastic			
	Non-Fibrous Materials:	Other Fibrous Materials:	%	**Asbestos Type: %**
	Mastic/Binder	None Detected	ND	**None Detected ND**
Layer 2 of 4	**Description:** Off-white/gray patterned sheet vinyl			
	Non-Fibrous Materials:	Other Fibrous Materials:	%	**Asbestos Type: %**
	Calcareous particles, Vinyl/Binder	None Detected	ND	**None Detected ND**
Layer 3 of 4	**Description:** Light gray fibrous backing with mastic			
	Non-Fibrous Materials:	Other Fibrous Materials:	%	**Asbestos Type: %**
	Fine particles, Binder/Filler, Mastic/Binder	Cellulose	30%	**None Detected ND**
		Synthetic fibers	8%	
		Glass fibers	3%	
Layer 4 of 4	**Description:** Black thin asphaltic mastic			
	Non-Fibrous Materials:	Other Fibrous Materials:	%	**Asbestos Type: %**
	Asphalt/Binder, Mastic/Binder	Cellulose	3%	**Chrysotile 2%**

Lab ID: 31084567 **Client Sample #: PP-1**
Location: Washington Building

Sampled by: Client
Analyzed by: Nadezhda Prysyazhnyuk **Date:** 11/17/2011
Reviewed by: Nick Ly **Date:** 11/17/2011

Nick Ly, Technical Director

Note: If samples are not homogeneous, then subsamples of the components were analyzed separately. All bulk samples are analyzed using EPA 600/R-93/116 Method with the following measurement uncertainties for the reported % Asbestos (1%=0-3%, 5%=1-9%, 10%=5-15%, 20%=10-30%, 50%=40-60%). This report relates only to the items tested. If sample was not collected by NVL personnel, then the accuracy of the results is limited by the methodology and acuity of the sample collector. This report shall not be reproduced except in full, without written approval of NVL Laboratories, Inc. It shall not be used to claim product endorsement by NVLAP or any other agency of the US Government.

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For the scope of accreditation under NVLAP Lab Code 102063-0

Bulk Asbestos Fibers Analysis

By Polarized Light Microscopy

Client: Strata
Address: 1428 S Main St.
Moscow, ID 83843

Attention: **Mr. Shawn Ringo**
Project Location: Washington Building

Batch #: 3115987.00
Client Project #: WASUNI
Date Received: 11/16/2011
Samples Received: 15
Samples Analyzed: 15
Method: EPA/600R-93/116

Layer 1 of 1 **Description:** White brittle material

Non-Fibrous Materials:	Other Fibrous Materials: %	**Asbestos Type: %**
Fine particles/Binder, Perlite	None Detected ND	**None Detected ND**

Sampled by: Client
Analyzed by: Nadezhda Prysyazhnyuk **Date:** 11/17/2011
Reviewed by: Nick Ly **Date:** 11/17/2011

Nick Ly, Technical Director

Note: If samples are not homogeneous, then subsamples of the components were analyzed separately. All bulk samples are analyzed using EPA 600/R-93/116 Method with the following measurement uncertainties for the reported % Asbestos (1%=0-3%, 5%=1-9%, 10%=5-15%, 20%=10-30%, 50%=40-60%). This report relates only to the items tested. If sample was not collected by NVL personnel, then the accuracy of the results is limited by the methodology and acuity of the sample collector. This report shall not be reproduced except in full, without written approval of NVL Laboratories, Inc. It shall not be used to claim product endorsement by NVLAP or any other agency of the US Government.

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Fax: 206.634.1936 1.888.NVL.LABS (685.5227)

CHAIN of CUSTODY SAMPLE LOG

BATCH ID
3115987.00

Client STRATA
Street 1428 South Main Street
Moscow, ID 83843

Project Manager Shawn Ringo
Project Location Washington Building

NVL Batch Number
Client Job Number WASUNI
Total Samples ~~15~~ 15*
Turn Around Time ☐ 1-Hr ☐ 24-Hrs ☐ 4 Days
☐ 2-Hrs ☒ 2 Days ☐ 5 Days
☐ 4-Hrs ☐ 3 Days ☐ 6 to 10 Days
Please call for TAT less than 24 Hrs

Email address sringo@stratageotech.com

Phone: 208-874-3445 Fax:

☐ Asbestos Air ☐ PCM (NIOSH 7400) ☐ TEM (NIOSH 7402) ☐ TEM (AHERA) ☐ TEM (EPA Level II) ☐ Other
☒ Asbestos Bulk ☒ PLM (EPA/600/R-93/116) ☐ PLM (EPA Point Count) ☐ PLM (EPA Gravimetry) ☐ TEM Bulk
☐ Mold/Fungus ☐ Mold Air ☐ Mold Bulk ☐ Rotometer Calibration

METALS	Inst./Det Limit	Matrix	RCRA Metals ☐ All 8	Other Metals
☐ Total Metals ☐ TCLP	☐ FAA (ppm) ☐ ICP (ppm) ☐ GFAA (ppb)	☐ Air Filter ☐ Paint Chips in cm ☐ Drinking water ☐ Waste Water ☐ Dust/wipe (Area) ☐ Other ☐ Soil ☐ Paint Chips in %	☐ Arsenic (As) ☐ Mercury (Hg) ☐ Barium (Ba) ☐ Selenium (Se) ☐ Cadmium (Cd) ☐ Silver (Ag) ☐ Chromium (Cr) ☐ Lead (Pb)	☐ All 3 ☐ Copper (Cu) ☐ Nickel (Ni) ☐ Zinc (Zn)

☐ Other Types of Analysis ☐ Fiberglass ☐ Nuisance Dust ☐ Other (Specify) _____
☐ Silica ☐ Respirable Dust

Condition of Package: ☐ Good ☐ Damaged (no spillage) ☐ Severe damage (spillage)

Seq. #	Lab ID	Client Sample Number	Comments (e.g Sample area, Sample Volume, etc)	A/R
1		GWB 1		
2		GWB 2		
3		GWB 3		
4		CT 1		
5		CT 2		
6		CT 3		
7		CT 4		
8		CT 5		
9		SV 1		
10		SV 2		
11		SV 3		
12		SV B 1		
13		SV B 2		
14		SV B 3		
15		~~PP 1~~ PP-1	7in penetration	

	Print Below	Sign Below	Company	Date	Time
Sampled by	Shawn Ringo		STRATA	11 14 11	1 wp
Relinquished by	Shawn Ringo		STRATA	11 15 11	3:00
Received by	Midori Ike	for	NVL	11-16-11	9:00 Fedex
Analyzed by	Nadia		NVL	11-17-11	9:55AM
Results Called by					
Results ~~Faxed~~ by	Eric Rodriguez		NVL	11/17/11	1730

Email

Special Instructions: Unless requested in writing, all samples will be disposed of two (2) weeks after analysis.

HAZARDOUS MATERIALS
MANAGEMENT • TRAINING • LAB SERVICES

November 16, 2011

Shawn Ringo
Strata
1428 S Main St.
Moscow, ID 83843

NVL LABS
HAZARDOUS MATERIALS SERVICES

RE: Bulk Asbestos Fiber Analysis, NVL Batch # 3115973.00

Dear Mr. Ringo,

Enclosed please find test results for the bulk samples submitted to our laboratory for analysis. Examination of these samples was conducted for the presence of identifiable asbestos fibers using polarized light microscopy (PLM) with dispersion staining in accordance with U.S. EPA/600/R-93/116 Test Method.

For samples containing more than one separable layer of materials, the report will include findings for each layer (labeled Layer 1 and Layer 2, etc. for each individual layer). The asbestos concentration in the sample is determined by visual estimation.

For those samples with asbestos concentrations between 1 and 10 percent based on visual estimation, the EPA recommends a procedure known as point counting (NESHAPS, 40 CFR Part 61). Point counting is a statistically more accurate means of quantification for samples with low concentrations of asbestos. If you would like us to further refine the concentration estimates of asbestos in these samples using point counting, please let me know.

This report is considered highly confidential and will not be released without your approval. Samples are archived for two weeks following analysis. Samples that are not retrieved by the client are discarded after two weeks.

Thank you for using our laboratory services. Please do not hesitate to call if there is anything further we can assist you with.

Sincerely,

Nick Ly, Technical Director

NVL LABORATORIES, INC
4708 AURORA AVE N
SEATTLE, WA 98103.6515
TEL 206.547.0100
FAX 206.634.1936
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NVLAP Lab Code 102063-0

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1.888.NVL.LABS (685 5227)

Enc.: Sample Results

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For the scope of accreditation under NVLAP Lab Code 102063-0

Bulk Asbestos Fibers Analysis

By Polarized Light Microscopy

Client: Strata
Address: 1428 S Main St.
Moscow, ID 83843

Attention: Mr. Shawn Ringo
Project Location: Washington Building

Batch #: 3115973.00
Client Project #: WASUNI
Date Received: 11/16/2011
Samples Received: 15
Samples Analyzed: 15
Method: EPA/600R-93/116

Lab ID: 31084467 Client Sample #: SV-C-1
Location: Washington Building

Layer 1 of 2	**Description:** White/gray patterned sheet vinyl		
	Non-Fibrous Materials:	Other Fibrous Materials:%	**Asbestos Type: %**
	Calcareous particles, Vinyl/Binder	None Detected ND	**None Detected ND**
Layer 2 of 2	**Description:** Gray fibrous backing with mastic		
	Non-Fibrous Materials:	Other Fibrous Materials:%	**Asbestos Type: %**
	Fine particles, Binder/Filler, Mastic/Binder	Cellulose 45%	**None Detected ND**
		Synthetic fibers 10%	

Lab ID: 31084468 Client Sample #: SV-C-2
Location: Washington Building

Layer 1 of 2	**Description:** White/gray patterned sheet vinyl		
	Non-Fibrous Materials:	Other Fibrous Materials:%	**Asbestos Type: %**
	Calcareous particles, Vinyl/Binder	None Detected ND	**None Detected ND**
Layer 2 of 2	**Description:** Gray fibrous backing with mastic		
	Non-Fibrous Materials:	Other Fibrous Materials:%	**Asbestos Type: %**
	Fine particles, Binder/Filler, Mastic/Binder	Cellulose 25%	**None Detected ND**
		Synthetic fibers 15%	

Lab ID: 31084469 Client Sample #: SV-C-3
Location: Washington Building

Layer 1 of 3	**Description:** White/gray patterned sheet vinyl		
	Non-Fibrous Materials:	Other Fibrous Materials:%	**Asbestos Type: %**
	Calcareous particles, Vinyl/Binder	None Detected ND	**None Detected ND**
Layer 2 of 3	**Description:** Gray fibrous backing with mastic		
	Non-Fibrous Materials:	Other Fibrous Materials:%	**Asbestos Type: %**
	Fine particles, Binder/Filler, Mastic/Binder	Cellulose 37%	**None Detected ND**

Sampled by: Client
Analyzed by: Nadezhda Prysyazhnyuk **Date:** 11/16/2011
Reviewed by: Nick Ly **Date:** 11/16/2011

Nick Ly, Technical Director

Note: If samples are not homogeneous, then subsamples of the components were analyzed separately. All bulk samples are analyzed using EPA 600/R-93/116 Method with the following measurement uncertainties for the reported % Asbestos (1%=0-3%, 5%=1-9%, 10%=5-15%, 20%=10-30%, 50%=40-60%). This report relates only to the items tested. If sample was not collected by NVL personnel, then the accuracy of the results is limited by the methodology and acuity of the sample collector. This report shall not be reproduced except in full, without written approval of NVL Laboratories, Inc. It shall not be used to claim product endorsement by NVLAP or any other agency of the US Government.

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Bulk Asbestos Fibers Analysis

By Polarized Light Microscopy

Client: Strata
Address: 1428 S Main St.
Moscow, ID 83843

Attention: Mr. Shawn Ringo
Project Location: Washington Building

Batch #: 3115973.00
Client Project #: WASUNI
Date Received: 11/16/2011
Samples Received: 15
Samples Analyzed: 15
Method: EPA/600R-93/116

		Synthetic fibers 10%	
Layer 3 of 3	**Description:** Trace off-white chalky material		
	Non-Fibrous Materials:	Other Fibrous Materials:%	**Asbestos Type: %**
	Fine particles, Gypsum/Binder	Cellulose 3%	**None Detected ND**

Lab ID: 31084470 **Client Sample #: VCT-1**
Location: Washington Building

Layer 1 of 3	**Description:** Yellow soft mastic		
	Non-Fibrous Materials:	Other Fibrous Materials:%	**Asbestos Type: %**
	Mastic/Binder	None Detected ND	**None Detected ND**
Layer 2 of 3	**Description:** Light beige tile		
	Non-Fibrous Materials:	Other Fibrous Materials:%	**Asbestos Type: %**
	Calcareous particles, Vinyl/Binder	None Detected ND	**None Detected ND**
Layer 3 of 3	**Description:** Black asphaltic mastic		
	Non-Fibrous Materials:	Other Fibrous Materials:%	**Asbestos Type: %**
	Asphalt/Binder, Mastic/Binder	None Detected ND	**Chrysotile 5%**

Lab ID: 31084471 **Client Sample #: VCT-2**
Location: Washington Building

Layer 1 of 3	**Description:** Yellow soft mastic		
	Non-Fibrous Materials:	Other Fibrous Materials:%	**Asbestos Type: %**
	Mastic/Binder	None Detected ND	**None Detected ND**
Layer 2 of 3	**Description:** Light beige tile		
	Non-Fibrous Materials:	Other Fibrous Materials:%	**Asbestos Type: %**
	Calcareous particles, Vinyl/Binder	None Detected ND	**None Detected ND**
Layer 3 of 3	**Description:** Black asphaltic mastic		
	Non-Fibrous Materials:	Other Fibrous Materials:%	**Asbestos Type: %**
	Asphalt/Binder, Mastic/Binder	Cellulose 1%	**Chrysotile 5%**

Sampled by: Client
Analyzed by: Nadezhda Prysyazhnyuk **Date:** 11/16/2011
Reviewed by: Nick Ly **Date:** 11/16/2011

Nick Ly, Technical Director

Note: If samples are not homogeneous, then subsamples of the components were analyzed separately. All bulk samples are analyzed using EPA 600/R-93/116 Method with the following measurement uncertainties for the reported % Asbestos (1%=0-3%, 5%=1-9%, 10%=5-15%, 20%=10-30%, 50%=40-60%). This report relates only to the items tested. If sample was not collected by NVL personnel, then the accuracy of the results is limited by the methodology and acuity of the sample collector. This report shall not be reproduced except in full, without written approval of NVL Laboratories, Inc. It shall not be used to claim product endorsement by NVLAP or any other agency of the US Government.

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Bulk Asbestos Fibers Analysis

By Polarized Light Microscopy

Client: Strata
Address: 1428 S Main St.
Moscow, ID 83843

Attention: **Mr. Shawn Ringo**
Project Location: Washington Building

Batch #: 3115973.00
Client Project #: WASUNI
Date Received: 11/16/2011
Samples Received: 15
Samples Analyzed: 15
Method: EPA/600R-93/116

Lab ID: 31084472 **Client Sample #: VCT-3**
Location: Washington Building

Layer 1 of 3	**Description:** Yellow soft mastic		
	Non-Fibrous Materials:	Other Fibrous Materials:%	**Asbestos Type: %**
	Mastic/Binder	None Detected ND	**None Detected ND**
Layer 2 of 3	**Description:** Light beige tile		
	Non-Fibrous Materials:	Other Fibrous Materials:%	**Asbestos Type: %**
	Calcareous particles, Vinyl/Binder	None Detected ND	**None Detected ND**
Layer 3 of 3	**Description:** Black asphaltic mastic		
	Non-Fibrous Materials:	Other Fibrous Materials:%	**Asbestos Type: %**
	Asphalt/Binder, Mastic/Binder	None Detected ND	**Chrysotile 4%**

Lab ID: 31084473 **Client Sample #: VCT-B-1**
Location: Washington Building

Layer 1 of 2	**Description:** Gray tile		
	Non-Fibrous Materials:	Other Fibrous Materials:%	**Asbestos Type: %**
	Calcareous particles, Vinyl/Binder	None Detected ND	**None Detected ND**
Layer 2 of 2	**Description:** Yellow soft mastic		
	Non-Fibrous Materials:	Other Fibrous Materials:%	**Asbestos Type: %**
	Mastic/Binder	None Detected ND	**None Detected ND**

Lab ID: 31084474 **Client Sample #: VCT-B-2**
Location: Washington Building

Layer 1 of 2	**Description:** Gray tile		
	Non-Fibrous Materials:	Other Fibrous Materials:%	**Asbestos Type: %**
	Calcareous particles, Vinyl/Binder	None Detected ND	**None Detected ND**

Sampled by: Client
Analyzed by: Nadezhda Prysyazhnyuk **Date:** 11/16/2011
Reviewed by: Nick Ly **Date:** 11/16/2011

Nick Ly, Technical Director

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Bulk Asbestos Fibers Analysis

By Polarized Light Microscopy

Client: Strata
Address: 1428 S Main St.
Moscow, ID 83843

Attention: Mr. Shawn Ringo
Project Location: Washington Building

Batch #: 3115973.00
Client Project #: WASUNI
Date Received: 11/16/2011
Samples Received: 15
Samples Analyzed: 15
Method: EPA/600R-93/116

Layer 2 of 2	**Description:** Yellow soft mastic		
	Non-Fibrous Materials:	Other Fibrous Materials: %	**Asbestos Type: %**
	Mastic/Binder	None Detected ND	**None Detected ND**

Lab ID: 31084475 **Client Sample #: VCT-B-3**
Location: Washington Building

Layer 1 of 2	**Description:** Gray tile		
	Non-Fibrous Materials:	Other Fibrous Materials: %	**Asbestos Type: %**
	Calcareous particles, Vinyl/Binder	None Detected ND	**None Detected ND**
Layer 2 of 2	**Description:** Yellow soft mastic		
	Non-Fibrous Materials:	Other Fibrous Materials: %	**Asbestos Type: %**
	Mastic/Binder	None Detected ND	**None Detected ND**

Lab ID: 31084476 **Client Sample #: VCT-C-1**
Location: Washington Building

Layer 1 of 2	**Description:** Dark pink tile		
	Non-Fibrous Materials:	Other Fibrous Materials: %	**Asbestos Type: %**
	Calcareous particles, Vinyl/Binder	None Detected ND	**None Detected ND**
Layer 2 of 2	**Description:** Yellow soft adhesive		
	Non-Fibrous Materials:	Other Fibrous Materials: %	**Asbestos Type: %**
	Adhesive/Binder	None Detected ND	**None Detected ND**

Lab ID: 31084477 **Client Sample #: VCT-C-2**
Location: Washington Building

Layer 1 of 2	**Description:** Dark pink tile		
	Non-Fibrous Materials:	Other Fibrous Materials: %	**Asbestos Type: %**
	Calcareous particles, Vinyl/Binder	None Detected ND	**None Detected ND**

Sampled by: Client
Analyzed by: Nadezhda Prysyazhnyuk **Date:** 11/16/2011
Reviewed by: Nick Ly **Date:** 11/16/2011

Nick Ly, Technical Director

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Bulk Asbestos Fibers Analysis

By Polarized Light Microscopy

Client: Strata
Address: 1428 S Main St.
Moscow, ID 83843

Attention: Mr. Shawn Ringo
Project Location: Washington Building

Batch #: 3115973.00
Client Project #: WASUNI
Date Received: 11/16/2011
Samples Received: 15
Samples Analyzed: 15
Method: EPA/600R-93/116

Layer 2 of 2	**Description:** Yellow soft adhesive		
	Non-Fibrous Materials:	Other Fibrous Materials:%	**Asbestos Type: %**
	Adhesive/Binder	None Detected ND	**None Detected ND**

Lab ID: 31084478 **Client Sample #: VCT-C-3**
Location: Washington Building

Layer 1 of 2	**Description:** Dark pink tile		
	Non-Fibrous Materials:	Other Fibrous Materials:%	**Asbestos Type: %**
	Calcareous particles, Vinyl/Binder	None Detected ND	**None Detected ND**
Layer 2 of 2	**Description:** Yellow soft adhesive		
	Non-Fibrous Materials:	Other Fibrous Materials:%	**Asbestos Type: %**
	Adhesive/Binder	None Detected ND	**None Detected ND**

Lab ID: 31084479 **Client Sample #: VCT-D-1**
Location: Washington Building

Layer 1 of 2	**Description:** Light tan tile		
	Non-Fibrous Materials:	Other Fibrous Materials:%	**Asbestos Type: %**
	Calcareous particles, Vinyl/Binder	None Detected ND	**None Detected ND**
Layer 2 of 2	**Description:** Yellow soft mastic		
	Non-Fibrous Materials:	Other Fibrous Materials:%	**Asbestos Type: %**
	Mastic/Binder	None Detected ND	**None Detected ND**

Lab ID: 31084480 **Client Sample #: VCT-D-2**
Location: Washington Building

Layer 1 of 2	**Description:** Light tan tile		
	Non-Fibrous Materials:	Other Fibrous Materials:%	**Asbestos Type: %**
	Calcareous particles, Vinyl/Binder	None Detected ND	**None Detected ND**

Sampled by: Client
Analyzed by: Nadezhda Prysyazhnyuk **Date:** 11/16/2011
Reviewed by: Nick Ly **Date:** 11/16/2011

Nick Ly, Technical Director

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Bulk Asbestos Fibers Analysis

By Polarized Light Microscopy

Client: Strata
Address: 1428 S Main St.
Moscow, ID 83843

Attention: Mr. Shawn Ringo
Project Location: Washington Building

Batch #: 3115973.00
Client Project #: WASUNI
Date Received: 11/16/2011
Samples Received: 15
Samples Analyzed: 15
Method: EPA/600R-93/116

Layer 2 of 2	**Description:** Yellow soft mastic		
	Non-Fibrous Materials:	Other Fibrous Materials:%	**Asbestos Type: %**
	Mastic/Binder	None Detected ND	**None Detected ND**

Lab ID: 31084481 **Client Sample #: VCT-D-3**
Location: Washington Building

Layer 1 of 2	**Description:** Light tan tile		
	Non-Fibrous Materials:	Other Fibrous Materials:%	**Asbestos Type: %**
	Calcareous particles, Vinyl/Binder	None Detected ND	**None Detected ND**
Layer 2 of 2	**Description:** Yellow soft mastic		
	Non-Fibrous Materials:	Other Fibrous Materials:%	**Asbestos Type: %**
	Mastic/Binder	None Detected ND	**None Detected ND**

Sampled by: Client
Analyzed by: Nadezhda Prysyazhnyuk **Date:** 11/16/2011
Reviewed by: Nick Ly **Date:** 11/16/2011

Nick Ly, Technical Director

Note: If samples are not homogeneous, then subsamples of the components were analyzed separately. All bulk samples are analyzed using EPA 600/R-93/116 Method with the following measurement uncertainties for the reported % Asbestos (1%=0-3%, 5%=1-9%, 10%=5-15%, 20%=10-30%, 50%=40-60%). This report relates only to the items tested. If sample was not collected by NVL personnel, then the accuracy of the results is limited by the methodology and acuity of the sample collector. This report shall not be reproduced except in full, without written approval of NVL Laboratories, Inc. It shall not be used to claim product endorsement by NVLAP or any other agency of the US Government.

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CHAIN of CUSTODY SAMPLE LOG

BATCH ID
3115973.00

Client STRATA
Street 1428 South Main Street
Moscow, ID 83843

Project Manager Shawn Ringo
Project Location Washington Building

NVL Batch Number
Client Job Number WASUNI
Total Samples 15
Turn Around Time ☐ 1-Hr ☐ 24-Hrs ☐ 4 Days ☐ 2-Hrs ☒ 2 Days ☐ 5 Days ☐ 4-Hrs ☐ 3 Days ☐ 6 to 10 Days
Please call for TAT less than 24 Hrs

Phone: 208-874-3445 Fax:
Email address sringo@stratageotech.com

☐ Asbestos Air ☐ PCM (NIOSH 7400) ☐ TEM (NIOSH 7402) ☐ TEM (AHERA) ☐ TEM (EPA Level II) ☐ Other
☒ Asbestos Bulk ☒ PLM (EPA/600/R-93/116) ☐ PLM (EPA Point Count) ☐ PLM (EPA Gravimetry) ☐ TEM Bulk
☐ Mold/Fungus ☐ Mold Air ☐ Mold Bulk ☐ Rotometer Calibration

METALS	Inst./Det Limit	Matrix	RCRA Metals		Other Metals
☐ Total Metals	☐ FAA (ppm)	☐ Air Filter	☐ Arsenic (As)	☐ All 8	☐ All 3
☐ TCLP	☐ ICP (ppm)	☐ Drinking water	☐ Barium (Ba)	☐ Mercury (Hg)	☐ Copper (Cu)
	☐ GFAA (ppb)	☐ Dust/wipe (Area)	☐ Cadmium (Cd)	☐ Selenium (Se)	☐ Nickel (Ni)
		☐ Soil	☐ Chromium (Cr)	☐ Silver (Ag)	☐ Zinc (Zn)
		☐ Paint Chips in %	☐ Lead (Pb)		
		☐ Paint Chips in cm			
		☐ Waste Water			
		☐ Other			

☐ Other Types of Analysis ☐ Fiberglass ☐ Silica ☐ Nuisance Dust ☐ Respirable Dust ☐ Other (Specify)

Condition of Package: ☐ Good ☐ Damaged (no spillage) ☐ Severe damage (spillage)

Seq. #	Lab ID	Client Sample Number	Comments (e.g Sample area, Sample Volume, etc)	A/R
1		SV C-1		
2		SV C 2		
3		SV C-3		
4		VCT 1		
5		VCT-2		
6		VCT-3		
7		VCT-B-1	gray	
8		VCT-B-2		
9		VCT-B-3		
10		VCT-C-1	chimsun	
11		VCT-C-2		
12		VCT-C-3		
13		VCT-D-1	Tan	
14		VCT-D-2		
15		VCT-D-3		

	Print Below	Sign Below	Company	Date	Time
Sampled by	Shawn Ringo		STRATA	11-14-11	1 pm
Relinquished by	Shawn Ringo		STRATA	11-15-11	3 pm
Received by	Midori Kake		NVL	11/16/11	9:00 Fedex
Analyzed by	Various		NVL	11/16/11	3:55 PM
Results Called by					
Results ~~Faxed~~ by	Eyas Fakhidi		NVL	11/17/11	1730

Email

Special Instructions: Unless requested in writing, all samples will be disposed of two (2) weeks after analysis.

HAZARDOUS MATERIALS
MANAGEMENT • TRAINING • LAB SERVICES

November 16, 2011

Shawn Ringo
Strata
1428 S Main St.
Moscow, ID 83843

NVL™ LABS
HAZARDOUS MATERIALS SERVICES

RE: Bulk Asbestos Fiber Analysis, NVL Batch # 3115986.00

Dear Mr. Ringo,

Enclosed please find test results for the bulk samples submitted to our laboratory for analysis. Examination of these samples was conducted for the presence of identifiable asbestos fibers using polarized light microscopy (PLM) with dispersion staining in accordance with U.S. EPA/600/R-93/116 Test Method.

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This report is considered highly confidential and will not be released without your approval. Samples are archived for two weeks following analysis. Samples that are not retrieved by the client are discarded after two weeks.

Thank you for using our laboratory services. Please do not hesitate to call if there is anything further we can assist you with.

Sincerely,

Nick Ly, Technical Director

NVLAP Lab Code 102063-0

Enc.: Sample Results

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For the scope of accreditation under NVLAP Lab Code 102063-0

Bulk Asbestos Fibers Analysis

By Polarized Light Microscopy

Client: Strata
Address: 1428 S Main St.
Moscow, ID 83843

Attention: Mr. Shawn Ringo
Project Location: Washington Building

Batch #: 3115986.00
Client Project #: WASUNI
Date Received: 11/16/2011
Samples Received: 12
Samples Analyzed: 12
Method: EPA/600R-93/116

Lab ID: 31084541 **Client Sample #: SC-1**
Location: Washington Building

Layer 1 of 3	**Description:** Tan soft mastic		
	Non-Fibrous Materials:	Other Fibrous Materials:%	**Asbestos Type: %**
	Mastic/Binder	None Detected ND	**None Detected ND**
Layer 2 of 3	**Description:** Black asphaltic mastic		
	Non-Fibrous Materials:	Other Fibrous Materials:%	**Asbestos Type: %**
	Asphalt/Binder, Mastic/Binder	None Detected ND	**Chrysotile 4%**
Layer 3 of 3	**Description:** Gray brittle material		
	Non-Fibrous Materials:	Other Fibrous Materials:%	**Asbestos Type: %**
	Fine particles, Binder/Filler, Mineral grains	None Detected ND	**None Detected ND**

Lab ID: 31084542 **Client Sample #: SC-2**
Location: Washington Building

Layer 1 of 3	**Description:** Tan soft mastic		
	Non-Fibrous Materials:	Other Fibrous Materials:%	**Asbestos Type: %**
	Mastic/Binder	None Detected ND	**None Detected ND**
Layer 2 of 3	**Description:** Black asphaltic mastic		
	Non-Fibrous Materials:	Other Fibrous Materials:%	**Asbestos Type: %**
	Asphalt/Binder, Mastic/Binder	None Detected ND	**Chrysotile 5%**
Layer 3 of 3	**Description:** Gray brittle material		
	Non-Fibrous Materials:	Other Fibrous Materials:%	**Asbestos Type: %**
	Fine particles, Binder/Filler, Mineral grains	None Detected ND	**None Detected ND**

Lab ID: 31084543 **Client Sample #: SC-3**
Location: Washington Building

Sampled by: Client
Analyzed by: Nadezhda Prysyazhnyuk **Date:** 11/16/2011
Reviewed by: Nick Ly **Date:** 11/16/2011

Nick Ly, Technical Director

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Bulk Asbestos Fibers Analysis

By Polarized Light Microscopy

Client: Strata
Address: 1428 S Main St.
Moscow, ID 83843

Attention: Mr. Shawn Ringo
Project Location: Washington Building

Batch #: 3115986.00
Client Project #: WASUNI
Date Received: 11/16/2011
Samples Received: 12
Samples Analyzed: 12
Method: EPA/600R-93/116

Layer 1 of 3	**Description:** Tan soft mastic		
	Non-Fibrous Materials:	Other Fibrous Materials:%	**Asbestos Type: %**
	Mastic/Binder	None Detected ND	**None Detected ND**
Layer 2 of 3	**Description:** Black asphaltic mastic		
	Non-Fibrous Materials:	Other Fibrous Materials:%	**Asbestos Type: %**
	Asphalt/Binder, Mastic/Binder	None Detected ND	**Chrysotile 5%**
Layer 3 of 3	**Description:** Gray brittle material		
	Non-Fibrous Materials:	Other Fibrous Materials:%	**Asbestos Type: %**
	Fine particles, Binder/Filler, Mineral grains	None Detected ND	**None Detected ND**

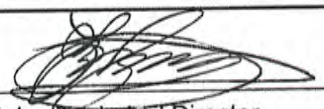
Lab ID: 31084544 **Client Sample #: CB-1**
Location: Washington Building

Layer 1 of 2	**Description:** Gray rubbery material		
	Non-Fibrous Materials:	Other Fibrous Materials:%	**Asbestos Type: %**
	Rubber/Binder	None Detected ND	**None Detected ND**
Layer 2 of 2	**Description:** Off-white soft mastic		
	Non-Fibrous Materials:	Other Fibrous Materials:%	**Asbestos Type: %**
	Mastic/Binder	None Detected ND	**None Detected ND**

Lab ID: 31084545 **Client Sample #: CB-2**
Location: Washington Building

Layer 1 of 2	**Description:** Gray rubbery material		
	Non-Fibrous Materials:	Other Fibrous Materials:%	**Asbestos Type: %**
	Rubber/Binder	None Detected ND	**None Detected ND**
Layer 2 of 2	**Description:** Off-white soft mastic		
	Non-Fibrous Materials:	Other Fibrous Materials:%	**Asbestos Type: %**
	Mastic/Binder	None Detected ND	**None Detected ND**

Sampled by: Client
Analyzed by: Nadezhda Prysyazhnyuk **Date:** 11/16/2011
Reviewed by: Nick Ly **Date:** 11/16/2011



Nick Ly, Technical Director

Note: If samples are not homogeneous, then subsamples of the components were analyzed separately. All bulk samples are analyzed using EPA 600/R-93/116 Method with the following measurement uncertainties for the reported % Asbestos (1%=0-3%, 5%=1-9%, 10%=5-15%, 20%=10-30%, 50%=40-60%). This report relates only to the items tested. If sample was not collected by NVL personnel, then the accuracy of the results is limited by the methodology and acuity of the sample collector. This report shall not be reproduced except in full, without written approval of NVL Laboratories, Inc. It shall not be used to claim product endorsement by NVLAP or any other agency of the US Government.

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NVLAP
For the scope of accreditation under NVLAP Lab Code 102063-0

Bulk Asbestos Fibers Analysis

By Polarized Light Microscopy

Client: Strata
Address: 1428 S Main St.
Moscow, ID 83843

Attention: Mr. Shawn Ringo
Project Location: Washington Building

Batch #: 3115986.00
Client Project #: WASUNI
Date Received: 11/16/2011
Samples Received: 12
Samples Analyzed: 12
Method: EPA/600R-93/116

Lab ID: 31084546 **Client Sample #: CB-3**
Location: Washington Building

Layer 1 of 2	**Description:** Gray rubbery material			
	Non-Fibrous Materials:	Other Fibrous Materials:	%	**Asbestos Type: %**
	Rubber/Binder	None Detected	ND	**None Detected ND**
Layer 2 of 2	**Description:** Off-white soft mastic			
	Non-Fibrous Materials:	Other Fibrous Materials:	%	**Asbestos Type: %**
	Mastic/Binder	None Detected	ND	**None Detected ND**

Lab ID: 31084547 **Client Sample #: CB-B-1**
Location: Washington Building

Layer 1 of 1	**Description:** Light tan rubbery material with trace adhesive and paint			
	Non-Fibrous Materials:	Other Fibrous Materials:	%	**Asbestos Type: %**
	Rubber/Binder, Adhesive/Binder, Paint	None Detected	ND	**None Detected ND**

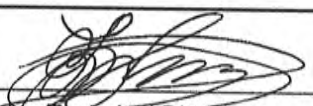
Lab ID: 31084548 **Client Sample #: CB-B-2**
Location: Washington Building

Layer 1 of 2	**Description:** Light tan rubbery material with thin adhesive			
	Non-Fibrous Materials:	Other Fibrous Materials:	%	**Asbestos Type: %**
	Rubber/Binder, Adhesive/Binder	None Detected	ND	**None Detected ND**
Layer 2 of 2	**Description:** Trace off-white compacted powdery material with paint			
	Non-Fibrous Materials:	Other Fibrous Materials:	%	**Asbestos Type: %**
	Fine particles, Binder/Filler, Paint	None Detected	ND	**None Detected ND**

Lab ID: 31084549 **Client Sample #: CB-B-3**
Location: Washington Building

Layer 1 of 1	**Description:** Light tan rubbery material with thin adhesive and trace paint			
	Non-Fibrous Materials:	Other Fibrous Materials:	%	**Asbestos Type: %**
	Rubber/Binder, Adhesive/Binder, Paint	None Detected	ND	**None Detected ND**

Sampled by: Client
Analyzed by: Nadezhda Prysyazhnyuk **Date:** 11/16/2011
Reviewed by: Nick Ly **Date:** 11/16/2011



Nick Ly, Technical Director

Note: If samples are not homogeneous, then subsamples of the components were analyzed separately. All bulk samples are analyzed using EPA 600/R-93/116 Method with the following measurement uncertainties for the reported % Asbestos (1%=0-3%, 5%=1-9%, 10%=5-15%, 20%=10-30%, 50%=40-60%). This report relates only to the items tested. If sample was not collected by NVL personnel, then the accuracy of the results is limited by the methodology and acuity of the sample collector. This report shall not be reproduced except in full, without written approval of NVL Laboratories, Inc. It shall not be used to claim product endorsement by NVLAP or any other agency of the US Government.

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For the scope of accreditation under NVLAP Lab Code 102063-0

Bulk Asbestos Fibers Analysis

By Polarized Light Microscopy

Client: Strata
Address: 1428 S Main St.
Moscow, ID 83843

Attention: Mr. Shawn Ringo
Project Location: Washington Building

Batch #: 3115986.00
Client Project #: WASUNI
Date Received: 11/16/2011
Samples Received: 12
Samples Analyzed: 12
Method: EPA/600R-93/116

Lab ID: 31084550 **Client Sample #: CB-C-1**
Location: Washington Building

Layer 1 of 4	**Description:** Dark pink rubbery material		
	Non-Fibrous Materials:	Other Fibrous Materials:%	**Asbestos Type: %**
	Rubber/Binder	None Detected ND	**None Detected ND**
Layer 2 of 4	**Description:** Off-white soft mastic		
	Non-Fibrous Materials:	Other Fibrous Materials:%	**Asbestos Type: %**
	Mastic/Binder	None Detected ND	**None Detected ND**
Layer 3 of 4	**Description:** Brown brittle mastic		
	Non-Fibrous Materials:	Other Fibrous Materials:%	**Asbestos Type: %**
	Mastic/Binder	None Detected ND	**None Detected ND**
Layer 4 of 4	**Description:** Trace off-white compacted powdery material with paint		
	Non-Fibrous Materials:	Other Fibrous Materials:%	**Asbestos Type: %**
	Calcareous particles, Binder/Filler, Paint	None Detected ND	**None Detected ND**

Lab ID: 31084551 **Client Sample #: CB-C-2**
Location: Washington Building

Layer 1 of 4	**Description:** Dark pink rubbery material		
	Non-Fibrous Materials:	Other Fibrous Materials:%	**Asbestos Type: %**
	Rubber/Binder	None Detected ND	**None Detected ND**
Layer 2 of 4	**Description:** Off-white soft mastic		
	Non-Fibrous Materials:	Other Fibrous Materials:%	**Asbestos Type: %**
	Mastic/Binder	None Detected ND	**None Detected ND**
Layer 3 of 4	**Description:** Brown brittle mastic		
	Non-Fibrous Materials:	Other Fibrous Materials:%	**Asbestos Type: %**
	Mastic/Binder	None Detected ND	**None Detected ND**

Sampled by: Client
Analyzed by: Nadezhda Prysyazhnyuk **Date:** 11/16/2011
Reviewed by: Nick Ly **Date:** 11/16/2011

Nick Ly, Technical Director

Note: If samples are not homogeneous, then subsamples of the components were analyzed separately. All bulk samples are analyzed using EPA 600/R-93/116 Method with the following measurement uncertainties for the reported % Asbestos (1%=0-3%, 5%=1-9%, 10%=5-15%, 20%=10-30%, 50%=40-60%). This report relates only to the items tested. If sample was not collected by NVL personnel, then the accuracy of the results is limited by the methodology and acuity of the sample collector. This report shall not be reproduced except in full, without written approval of NVL Laboratories, Inc. It shall not be used to claim product endorsement by NVLAP or any other agency of the US Government.

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NVLAP
For the scope of accreditation under NVLAP Lab Code 102063-0

Bulk Asbestos Fibers Analysis

By Polarized Light Microscopy

Client: Strata
Address: 1428 S Main St.
Moscow, ID 83843

Attention: Mr. Shawn Ringo
Project Location: Washington Building

Batch #: 3115986.00
Client Project #: WASUNI
Date Received: 11/16/2011
Samples Received: 12
Samples Analyzed: 12
Method: EPA/600R-93/116

Layer 4 of 4	**Description:** Off-white compacted powdery material with paint		
	Non-Fibrous Materials:	Other Fibrous Materials:%	**Asbestos Type: %**
	Calcareous particles, Binder/Filler, Paint	None Detected ND	**None Detected ND**

Lab ID: 31084552 **Client Sample #: CB-C-3**
Location: Washington Building

Layer 1 of 3	**Description:** Dark pink rubbery material		
	Non-Fibrous Materials:	Other Fibrous Materials:%	**Asbestos Type: %**
	Rubber/Binder	None Detected ND	**None Detected ND**
Layer 2 of 3	**Description:** Off-white soft mastic		
	Non-Fibrous Materials:	Other Fibrous Materials:%	**Asbestos Type: %**
	Mastic/Binder	None Detected ND	**None Detected ND**
Layer 3 of 3	**Description:** Off-white compacted powdery material with paint		
	Non-Fibrous Materials:	Other Fibrous Materials:%	**Asbestos Type: %**
	Calcareous particles, Binder/Filler, Paint	None Detected ND	**None Detected ND**

Sampled by: Client
Analyzed by: Nadezhda Prysyazhnyuk **Date:** 11/16/2011
Reviewed by: Nick Ly **Date:** 11/16/2011

Nick Ly, Technical Director

Note: If samples are not homogeneous, then subsamples of the components were analyzed separately. All bulk samples are analyzed using EPA 600/R-93/116 Method with the following measurement uncertainties for the reported % Asbestos (1%=0-3%, 5%=1-9%, 10%=5-15%, 20%=10-30%, 50%=40-60%). This report relates only to the items tested. If sample was not collected by NVL personnel, then the accuracy of the results is limited by the methodology and acuity of the sample collector. This report shall not be reproduced except in full, without written approval of NVL Laboratories, Inc. It shall not be used to claim product endorsement by NVLAP or any other agency of the US Government.

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Fax: 206.634.1936 1.888.NVL.LABS (685.5227)

CHAIN of CUSTODY SAMPLE LOG

BATCH ID
3115986.00

Client: STRATA
Street: 1428 South Main Street
Moscow, ID 83843

Project Manager: Shawn Ringo
Project Location: Washington Building

NVL Batch Number:
Client Job Number: WASUNI
Total Samples: 12
Turn Around Time: ☐ 1-Hr ☐ 24-Hrs ☐ 4 Days ☐ 2-Hrs ☒ 2 Days ☐ 5 Days ☐ 4-Hrs ☐ 3 Days ☐ 6 to 10 Days
Please call for TAT less than 24 Hrs
Email address: sringo@stratageotech.com

Phone: 208-874-3445 Fax:

☐ Asbestos Air ☐ PCM (NIOSH 7400) ☐ TEM (NIOSH 7402) ☐ TEM (AHERA) ☐ TEM (EPA Level II) ☐ Other _____
☒ Asbestos Bulk ☒ PLM (EPA/600/R-93/116) ☐ PLM (EPA Point Count) ☐ PLM (EPA Gravimetry) ☐ TEM Bulk
☐ Mold/Fungus ☐ Mold Air ☐ Mold Bulk ☐ Rotometer Calibration

METALS	Inst./Det Limit	Matrix	RCRA Metals ☐ All 8	Other Metals
☐ Total Metals ☐ TCLP	☐ FAA (ppm) ☐ ICP (ppm) ☐ GFAA (ppb)	☐ Air Filter ☐ Paint Chips in cm ☐ Drinking water ☐ Waste Water ☐ Dust/wipe (Area) ☐ Other ☐ Soil ☐ Paint Chips in %	☐ Arsenic (As) ☐ Mercury (Hg) ☐ Barium (Ba) ☐ Selenium (Se) ☐ Cadmium (Cd) ☐ Silver (Ag) ☐ Chromium (Cr) ☐ Lead (Pb)	☐ All 3 ☐ Copper (Cu) ☐ Nickel (Ni) ☐ Zinc (Zn)

☐ Other Types of Analysis ☐ Fiberglass ☐ Nuisance Dust ☐ Other (Specify) _____
☐ Silica ☐ Respirable Dust

Condition of Package: ☐ Good ☐ Damaged (no spillage) ☐ Severe damage (spillage)

Seq. #	Lab ID	Client Sample Number	Comments (e.g Sample area, Sample Volume, etc)	A/R
1		SK-1	skim	
2		SK 2		
3		SK 3		
4		CB-1	grey	
5		CB-2		
6		CB 3		
7		CB-B-1	tan	
8		CB B-2		
9		CB B-3		
10		CB-C-1	crimson	
11		CB-C 2		
12		CB C-3		
13		X		
14				
15				

	Print Below	Sign Below	Company	Date	Time
Sampled by	Shawn Ringo		STRATA	11-14-11	1:00p
Relinquished by	Shawn Ringo		STRATA	11 15 11	3:00p
Received by	MidoriKaye		NVL	11-16-11	9:00 Redeliver
Analyzed by	Nadia		NVL	11-16-11	4:40PM
Results Called by					
Emailed Results Faxed by	Eugene Rashid		NVL	11/17/11	1730

Special Instructions: Unless requested in writing, all samples will be disposed of two (2) weeks after analysis.

STRATA
A Professional Services Corporation
Integrity from the Ground Up

Photographic Documentation
File: WASUNI W11135A



Photograph 1: Fiberglass insulated HVAC piping above syspended ceiling.



Photograph 2: Structural concrete and utilities above suspended ceiling.



Photograph 3: ACM sheet vinyl at entry (red arrow).



Photograph 4: Non-ACM tile and mastic.



Photograph 5: New tile without ACM mastic and old tile with ACM mastic.



Photograph 6: Non-ACM sheet vinyl.

HAZARDOUS MATERIALS
MANAGEMENT • TRAINING • LAB SERVICES

November 17, 2011

Shawn Ringo
Strata
1428 S Main St.
Moscow, ID 83843

NVL LABS
HAZARDOUS MATERIALS SERVICES

RE: Metals Analysis; NVL Batch # 3115988.00

Dear Mr. Ringo,

Enclosed please find the test results for samples submitted to our laboratory for analysis. Preparation of these samples was conducted following protocol outlined in EPA Method SW 846-3051 unless stated otherwise. Analysis of these samples was performed using analytical instruments in accordance with U.S. EPA, NIOSH, OSHA and other ASTM methods.

NVLAP # 102063

AIHA Environmental Lead and Industrial Hygiene ACCREDITED LABORATORY
AIHA - IH #101861

For matrix materials submitted as paint, dust wipe, soil or TCLP samples, analysis for the presence of total metals is conducted using published U.S. EPA Methods. Paint and soil results are usually expressed in mg/Kg which is equivalent to parts per million (ppm). Lead (Pb) in paint is usually expressed in mg/Kg (ppm) , Percent (%) or mg/cm^2 by area. Dust wipe sample results are usually expressed in ug/wipe and ug/ft^2. TCLP samples are reported in mg/L (ppm). For air filter samples, analyses are conducted using NIOSH and OSHA Methods. Results are expressed in ug/filter and ug/m^3. Other matrix materials are analyzed accordingly using published methods or specified by client. The reported test results pertain only to items tested. Lead test results are not blank corrected.

For recent regulation updates pertaining to current regulatory levels or permissible exposure levels, please call your local regulatory agencies for more details.

This report is considered highly confidential and will not be released without your approval. Samples are archived for two weeks following analysis. Samples that are not retrieved by the client are discarded after two weeks.

Thank you for using our laboratory services. if you need further assistance please feel free to call us at 206-547-0100 or 1-888-NVLLABS.

Sincerely,

Nick Ly, Technical Director

Enclosure:

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www.nvllabs.com

Analysis Report

AIHA - IH # 101861
WA - DOE # C1765

AIHA Environmental Lead and Industrial Hygiene ACCREDITED LABORATORY

Total Lead (Pb)

Client: Strata
Address: 1428 S Main St.
Moscow, ID 83843

Attention: Mr. Shawn Ringo
Project Location: Washington Building

Batch #: 3115988.00
Matrix: Paint Chips
Method: EPA 7000B
Client Project #: WASUNI
Date Received: 11/16/2011
Samples Received: 3
Samples Analyzed: 3

Lab ID	Client Sample #	Sample Weight (g)	RL in mg/Kg	Results in mg/Kg	Results in percent
31084568	PbP-1	0.1966	47.0	< 47.0	< 0.0047
31084569	PbP-2	0.2064	45.0	< 45.0	< 0.0045
31084570	PbP-3	0.1923	48.0	< 48.0	< 0.0048

Sampled by: Client
Analyzed by: Aaron Brown Date Analyzed: 11/17/2011
Reviewed by: Nick Ly Date Issued: 11/17/2011

Nick Ly, Technical Director

mg/ Kg =Milligrams per kilogram
Percent = Milligrams per kilogram / 10000
Note : Method QC results are acceptable unless stated otherwise.
Unless otherwise indicated, the condition of all samples was acceptable at time of receipt.

RL = Reporting Limit
'<' = Below the reporting Limit

Bench Run No: 31-1117-01

NVL Laboratories, Inc.
4708 Aurora Ave N, Seattle, WA 98103
Tel: 206.547.0100 Emerg.Pager: 206.344.1878
Fax: 206.634.1936 1.888.NVL.LABS (685.5227)

CHAIN of CUSTODY SAMPLE LOG

BATCH ID
3115988.00

Client STRATA
Street 1428 South Main Street
Moscow, ID 83843

Project Manager Shawn Ringo
Project Location Washington Building

NVL Batch Number
Client Job Number WASUNI
Total Samples
Turn Around Time ☐ 1-Hr ☐ 24-Hrs ☐ 4 Days ☐ 2-Hrs ☒ 2 Days ☐ 5 Days ☐ 4-Hrs ☐ 3 Days ☐ 6 to 10 Days
Please call for TAT less than 24 Hrs
Email address sringo@stratageotech.com

Phone: 208-874-3445 Fax:

☐ Asbestos Air	☐ PCM (NIOSH 7400)	☐ TEM (NIOSH 7402)	☐ TEM (AHERA)	☐ TEM (EPA Level II)	☐ Other	
☐ Asbestos Bulk	☐ PLM (EPA/600/R-93/116)	☐ PLM (EPA Point Count)	☐ PLM (EPA Gravimetry)	☐ TEM Bulk		
☐ Mold/Fungus	☐ Mold Air	☐ Mold Bulk	☐ Rotometer Calibration			

METALS	Inst./Det Limit	Matrix		RCRA Metals ☐ All 8		Other Metals
☒ Total Metals	☒ FAA (ppm)	☐ Air Filter	☐ Paint Chips in cm	☐ Arsenic (As)	☐ Mercury (Hg)	☐ All 3
☐ TCLP	☐ ICP (ppm)	☐ Drinking water	☐ Waste Water	☐ Barium (Ba)	☐ Selenium (Se)	☐ Copper (Cu)
	☐ GFAA (ppb)	☐ Dust/wipe (Area)	☐ Other	☐ Cadmium (Cd)	☐ Silver (Ag)	☐ Nickel (Ni)
		☐ Soil		☐ Chromium (Cr)		☐ Zinc (Zn)
		☒ Paint Chips in %		☒ Lead (Pb)		

☐ Other Types of Analysis ☐ Fiberglass ☐ Silica ☐ Nuisance Dust ☐ Respirable Dust ☐ Other (Specify)

Condition of Package: ☐ Good ☐ Damaged (no spillage) ☐ Severe damage (spillage)

Seq. #	Lab ID	Client Sample Number	Comments (e.g Sample area, Sample Volume, etc)	A/R
1		PbP 1		
2		PbP-2		
3		PbP-3		
4				
5				
6				
7				
8				
9				
10				
11				
12				
13				
14				
15				

	Print Below	Sign Below	Company	Date	Time
Sampled by	Shawn Ringo		STRATA	11-14-11	1:00
Relinquished by	Shawn Ringo		STRATA	11-15-11	3:00
Received by	Midori Kake		NVL	11/16/11	900 Fedex
Analyzed by	Aaron Brown		NVL	11/17/11	18:05
Results Called by					
Results Emailed by	Midori Kake		NVL	11/18/11	820

Special Instructions: Unless requested in writing, all samples will be disposed of two (2) weeks after analysis.

APPENDIX F

Limited Supplemental Good Faith Survey – Remodel 1st Floor Suites – March 7, 2014

WASHINGTON STATE UNIVERSITY
Environmental Health and Safety

March 7, 2014

Attention: Kevin Poitra

Subject: Limited Supplemental Good Faith Survey
Remodel 1st Floor Suites
Washington Building (#0015)
Washington State University, Pullman, Washington
Job No.: 6805-2013

From: Matthew McKibbin
Industrial Hygienist III
WSU Environmental Health and Safety
AHERA Building Inspector #141107 (exp. March 27, 2014)

Suites 120 (series), 124,133 (series) and 169 (series) at the Washington Building (the Project Area) are scheduled for renovation. New offices will be arranged in the suites. Select wall, floor and ceiling demolition will take place to accommodate the new office spaces. Existing electrical, plumbing and HVAC systems are anticipated to be impacted. An existing Asbestos and Lead Survey for the Washington building was competed by E3RA, Inc. in a report dated February 3, 2005. Supplemental sampling was conducted by Washington State University (WSU) Environmental Health and Safety (EH&S) to meet good faith survey requirements in support of the project.

SCOPE OF WORK

The survey scope of work is limited to the areas indicated by 50% project drawings provided by Design West Architects dated January 31, 2014.

The scope of services for the supplemental Good Faith survey was limited to the following tasks:

- Perform a supplemental "Good Faith" asbestos survey of the Project Area using the prior Hazardous Material Sampling and Testing Report for the WSU Health Care Facility by E3RA, Inc. in a report dated February 3, 2005 to identify the presence, location, and quantity of asbestos-containing materials (ACM) and presumed asbestos-containing material (PACM) that may be impacted by the proposed project.
- Perform the asbestos survey in accordance with the "Good Faith" asbestos survey requirements in the Washington Administrative Code (WAC) 296-62-07721, and in accordance with the requirements of USEPA AHERA/ASHARA 40 CFR 763.
- Analyze samples by a National Voluntary Laboratory Accreditation Program (NVLAP) accredited laboratory for the presence and quantity of asbestos. Samples are analyzed using polarized light microscopy (PLM) Environmental Protections Agency (EPA) Method 600/R-93/116.
- Perform sampling of representative paints for lead using an x-ray fluorescence (XRF) device.

LIMITATIONS OF THE ASSESSMENT

The conclusions within this report are professional opinions based solely upon visual site observations and interpretations of analytical data as described in this report. The survey excluded areas of the building which were inaccessible and would have caused damage to the building if sampled. Locations where inspectors would have been exposed to chemical or physical hazards were not tested (inside fume hoods with active experiments, HVAC systems in operations, etc). Typical construction techniques can render portions of the structure inaccessible. As a result, additional asbestos-containing materials (ACM) may be present in inaccessible areas (e.g., under metal flashing). Suspect regulated materials within inaccessible areas should be presumed to contain asbestos until characterized. If suspect ACM not identified in this

report are found during demolition/renovation and/or construction stop work that may impact these materials and contact a project officer.

The opinions presented herein apply to the site conditions existing at the time of the investigation, and interpretation of current regulations pertaining to asbestos. Opinions and recommendations provided herein may not apply to future conditions that may exist at the site. Regulatory requirements in effect at the time of the work should be verified prior to any work that impacts regulated materials. This report represents the findings of this survey only, and is not intended to establish scope or contractual terms to regulated material abatement.

ASBESTOS SURVEY METHODOLOGY

Suspect ACM was grouped into homogeneous sampling areas (HSA) and categorized according to 40 CFR 763, as thermal systems insulation (TSI), surfacing material, or miscellaneous material. The sampling plan included, at a minimum, the collection and analysis of samples as follows:

Thermal System Insulation

- In a distributive manner, a minimum of three samples of each HSA that was not presumed to contain asbestos.
- At least one bulk sample from each homogeneous area of patched TSI if the patch was less than 6 square feet.

Surfacing Material

- In a distributive manner, a minimum of three samples collected from each homogeneous area that was 1,000 square feet or less.
- A minimum of five samples collected from each homogeneous area that was greater than 1,000 square feet but less than or equal to 5,000 square feet.
- A minimum of seven samples collected from each homogeneous area that was greater than 5,000 square feet.

Miscellaneous Material

- In a distributive manner as dWashington Buildingd sufficient by the Inspector. At least one sample was collected of each suspect miscellaneous material not presumed to contain asbestos.

Non-Suspect Materials

- Fiberglass, wood, metal, or other generally recognized non-ACM were not sampled.

Asbestos bulk samples and chain-of-custody forms were delivered to Environmental Hazards Services, L.L.C (EHS) in Richmond, Virginia for analysis. Each sample was analyzed using PLM/dispersion staining in accordance with EPA Method 600/R-93/116. The detection limit for this type of analysis is approximately one percent (by volume). Materials containing more than one percent asbestos are considered to be ACM.

LEAD SURVEY METHODOLOGY

This lead survey was performed to assist employers in efforts to comply with the L&I lead standard for the construction industry (WAC 296-155-176) during renovation/demolition. Representative paints were analyzed by a Niton portable x-ray fluorescence (XRF) device. Calibration was conducted within manufacturer's guidelines. Results are reported in milligrams per cubic centimeter (mg/cm^2). Any detection of lead in paint is reported as a lead-containing paint.

RESULTS

Eight (8) bulk samples were collected as part of our survey. One (1) of the samples collected was identified through laboratory analysis as regulated asbestos-containing materials (ACM). Additional ACMs were identified in the Project Area in the prior survey by E3RA and included in the summary below.

The following ACMs were identified in the Project Area:

Material	Location(s) of ACM	Estimated Quantity
Dark brown mosaic pattern sheet vinyl flooring	Room 120A <u>Under carpet in rooms:</u> 120B, 120, 120C, 120D, 120E	1,000 SF
Gray/white sheet vinyl flooring	Room 169C	18 SF
Non asbestos-containing 12” white/gray vinyl floor tile with asbestos-containing black mastic	Room 124, 120V	475 SF
Non asbestos-containing 12” off-white/brown vinyl floor tile with asbestos-containing black mastic (dominate floor tile throughout building)	133A, 133B, 133C, 133D, 133E, 133F, 100WB, 100WA, 100, 169, 169A, 169B, 169D, 165	1,000 SF
Black sink undercoat (double-well metal sinks)	Rooms 120, 124, 133, 169, 169A, 169B and 169D	7 EA
Tan duct mastic (on round metal ducts)	Throughout Project Area	60 LF
Mudded pipe fitting insulation (2”-4” O.D.)	Ceiling spaces and wall cavities throughout Project Area	20 EA

Asbestos survey sample numbers, material descriptions, sample locations and analytical results are provided in Table 1. ACM and sample locations are provided on the figure below. Prior survey results are found in Appendix B.

The following lead-containing coatings were identified in the Project Area:

Paint Color	Component	Substrate	Location
Tan and brown	Door frame	Metal	All door frames throughout Project Area
White	Wall	Gypsum wallboard	Corridor walls throughout Project Area

Lead paint sample numbers, descriptions, locations and results are provided in Table 2. Sample locations are provided on the figure below.

CONCLUSIONS AND RECOMMENDATIONS

A copy of this report must be provided to any entity bidding on work. A copy of this report must also be on site during any construction activities at the site.

Several asbestos-containing materials were identified in previous sampling and this Limited Supplemental Good Faith Survey. Work involving asbestos-containing asphalt roof coatings, cements, and mastics are exempt from WAC 296-62-077 as stated in WAC 296-62-07701(2). The ACMs identified on site is regulated and may be impacted by demolition. These ACMs should be removed and disposed according to local, state and federal regulations.

TABLE 1
SUMMARY OF ASBESTOS SAMPLING
WASHINGTON BUILDING – REMODEL 1ST FLOOR SUITES

Sample #	Building Name	Building #	Sample Location	Material	Material Description	Type	Location Quantity	Quantity Descriptor	Sample Results	ACM?
P01073	Washington Building	0015	Room 124	Fireproofing	Tan spray-applied fireproofing	Surf.	2,500	SF	NAD	No
P01074	Washington Building	0015	Room 120	Fireproofing	Tan spray-applied fireproofing	Surf.	2,500	SF	NAD	No
P01075	Washington Building	0015	Room 133	Fireproofing	Tan spray-applied fireproofing	Surf.	2,500	SF	NAD	No
P01076	Washington Building	0015	Room 100	Fireproofing	Tan spray-applied fireproofing	Surf.	2,500	SF	NAD	No
P01077	Washington Building	**0015**	**Room 120**	**Duct mastic**	**Tan duct mastic on round metal ducts in ceiling space**	**Misc.**	**60**	**LF**	**3% CHR**	**Yes**
P01078	Washington Building	0015	Room 124	Wallboard system	Gypsum wallboard with joint compound	Misc.	1,500	SF	NAD	No
P01079	Washington Building	0015	Room 133	Wallboard system	Gypsum wallboard with joint compound	Misc.	1,500	SF	NAD	No
P01080	Washington Building	0015	Room 169	Wallboard system	Gypsum wallboard with joint compound	Misc.	1,500	SF	NAD	No
Previous Survey Information **WSU Health Care Facility Hazardous Material Sampling by E3RA dated February 3, 2005**										
GWB-01-1 to GWB-01-4	Washington Building	0015	N/A	Wallboard system	Gypsum wallboard with joint compound	Misc.	1,500	SF	NAD	No

Sample #	Building Name	Building #	Sample Location	Material	Material Description	Type	Location Quantity	Quantity Descriptor	Sample Results	ACM?
SU-01-1	**Washington Building**	**0015**	**339**	**Sink undercoating**	**Black sink undercoating**	**Misc.**	**7**	**EA**	**2% CHR**	**Yes**
FD-01-1	Washington Building	0015	362	Fire door	Brown composite fire door with white chalky insulation	Misc.	1	EA	NAD	No
CB-01-1	Washington Building	0015	360	Vinyl cove base	4” Tan cove base with light and dark brown mastic	Misc.	20	SF	NAD	No
CB-02-1	Washington Building	0015	360	Vinyl cove base	6” Tan cove base with brown and tan mastic	Misc.	20	SF	NAD	No
CB-05-1	Washington Building	0015	340	Vinyl cove base	6” Dark brown cove base with dark tan mastic	Misc.	150	SF	NAD	No
CB-06-1	Washington Building	0015	N/A	Vinyl cove base	4” Dark brown cove base with brown mastic	Misc.	100	SF	NAD	No
Previous Survey Information Good Faith Asbestos Survey for Pullman Memorial Hospital by Northwest Envirocon, Inc., dated March 3, 1999										
200-1 To 200-3	Washington Building	0015	N/A	Fireproofing	Tan spray-applied fireproofing	Surf	2,500	SF	NAD	No
400	**Washington Building**	**0015**	**N/A**	**Vinyl floor tile**	**12” Vinyl floor tile and mastic (off-white and brown)**	**Misc.**	**1,000**	**SF**	NAD (tile), **3% CHR (mastic)**	**Yes**
408	**Washington Building**	**0015**	**N/A**	**Sheet vinyl flooring**	**Floor vinyl (gray/white stone pattern)**	**Misc.**	**18**	**SF**	**20% CHR**	**Yes**

Sample #	Building Name	Building #	Sample Location	Material	Material Description	Type	Location Quantity	Quantity Descriptor	Sample Results	ACM?
409	**Washington Building**	**0015**	**N/A**	**Vinyl floor tile**	**12" Floor tile and mastic (gray and white)**	**Misc.**	**475**	**SF**	**3% CHR (mastic)**	**Yes**
410	**Washington Building**	**0015**	**N/A**	**Sheet vinyl flooring**	**Floor vinyl (brown/dark brown)**	**Misc.**	**1,000**	**SF**	**20% CHR**	**Yes**
500-1 to 500-3	Washington Building	0015	N/A	Wallboard system	Gypsum wallboard with joint compound	Misc.	1,500	SF	NAD	No
501-1 to 501-3	Washington Building	0015	N/A	Plaster	Plaster	Surf.	500	SF	NAD	No
502-1 to 502-3	Washington Building	0015	N/A	Vinyl cove base	4-6" Brown vinyl cove base and mastic	Misc.	250	SF	NAD	No
600-1 to 600-3	Washington Building	0015	N/A	Suspended ceiling tile	2'x4' White random pinhole pattern suspended ceiling tile	Misc.	2,500	SF	NAD	No

Notes:

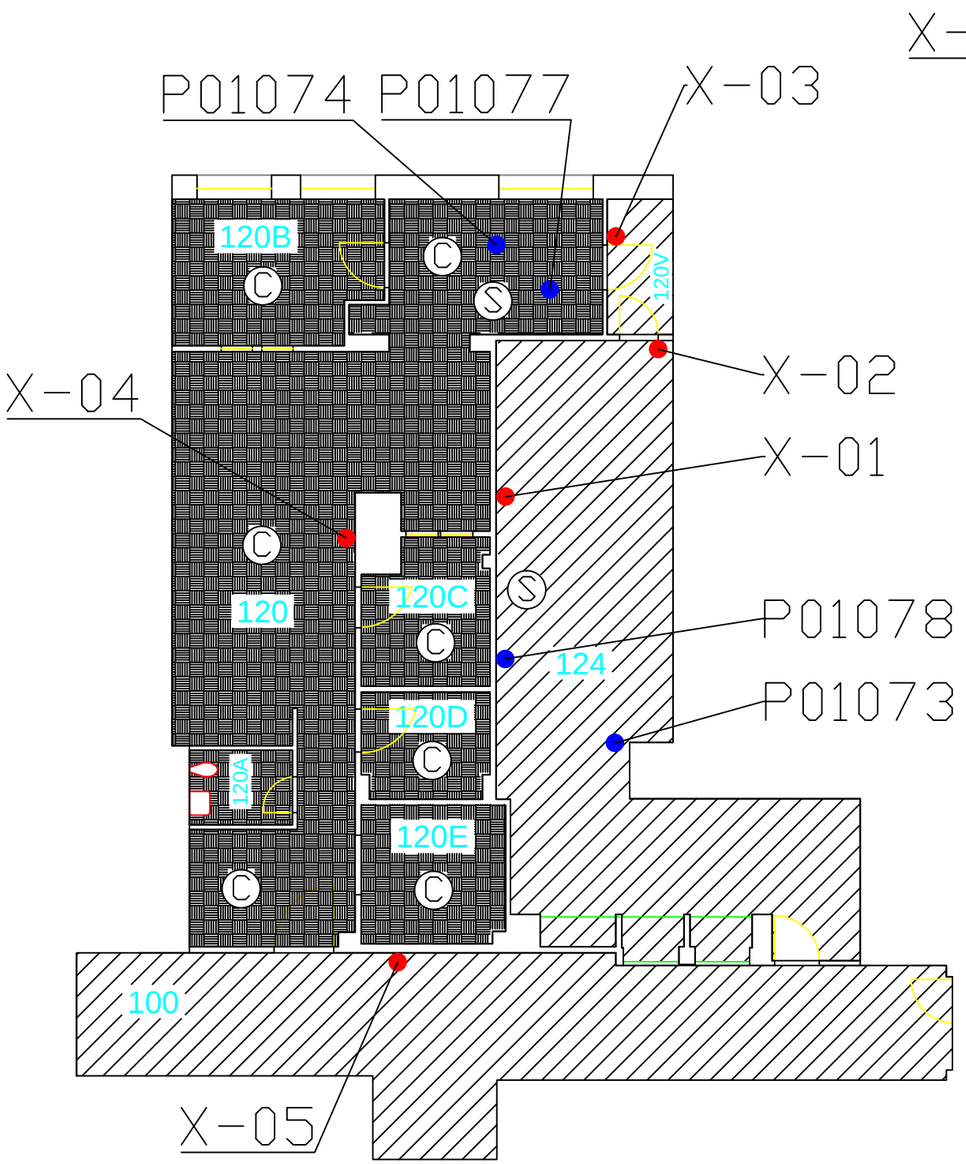
a) All asbestos analytical results are reported as percent asbestos per volume of bulk material sampled, as determined by U.S EPA Method 600/R-93/116.
b) SF = Square feet
c) LF = Linear feet
d) N/A = No information available
e) NAD = No asbestos detected
f) CHR = Chrysotile asbestos
g) Misc. = Miscellaneous material
h) Surf. = Surfacing material
i) **Bold** type indicates samples that contain asbestos

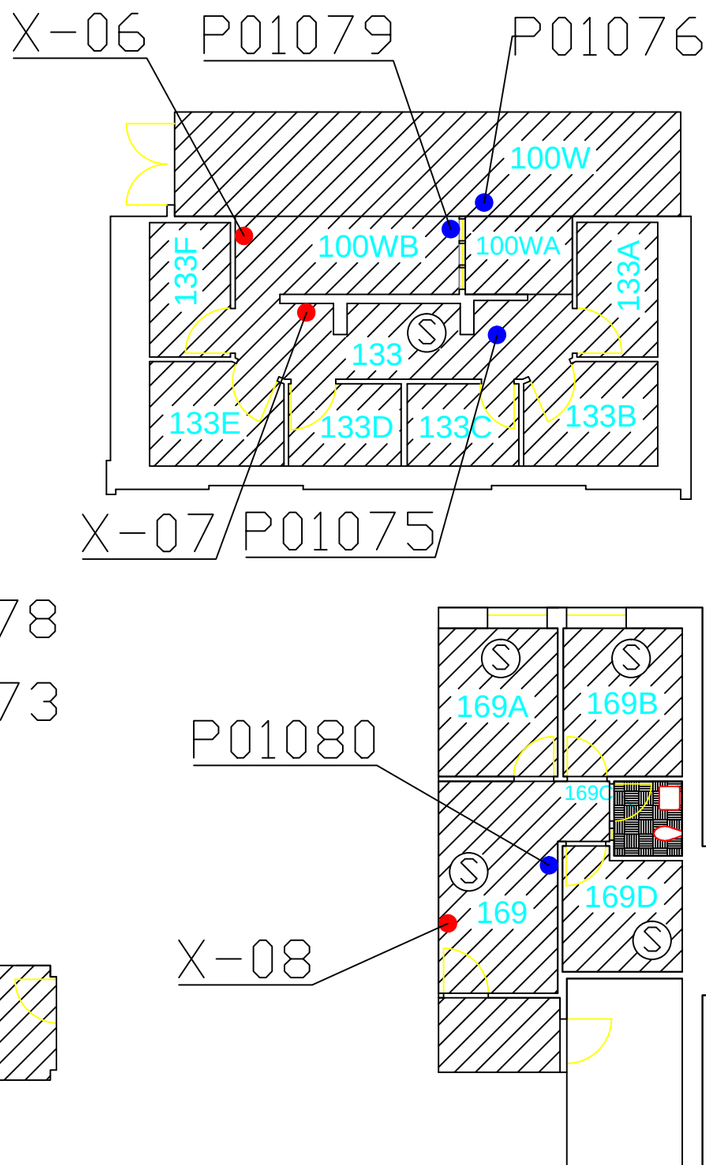
TABLE 2
SUMMARY OF PREVIOUS LEAD PAINT SAMPLING
WASHINGTON BUILDING – REMODEL 1ST FLOOR SUITES

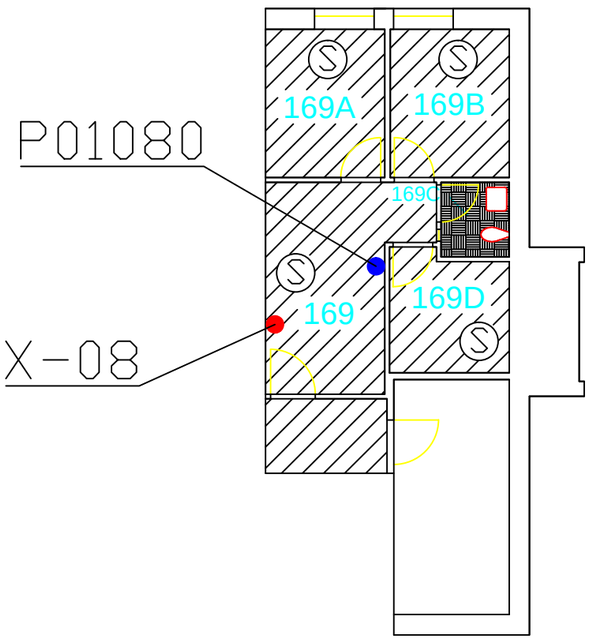
Sample #	Building Name	Building #	Sample Location (Room #)	Location Description	Paint Color	Substrate	Component	Result (mg/cm^2)	Error (mg/cm^2)	Lead-Containing
X-01	Washington Building	0015	124	North wall	White	Gypsum wallboard	Wall	0.00	0.02	No
X-02	**Washington Building**	**0015**	**124**	**East entry**	**Brown**	**Metal**	**Door frame**	**0.05**	**0.02**	**Yes**
X-03	Washington Building	0015	120V	East wall	White	Gypsum wallboard	Wall	0.00	0.02	No
X-04	Washington Building	0015	120	West wall	White	Gypsum wallboard	Wall	0.00	0.02	No
X-05	**Washington Building**	**0015**	**100**	**Outside room 120**	**White**	**Gypsum wallboard**	**Wall**	**0.03**	**0.02**	**Yes**
X-06	**Washington Building**	**0015**	**100**	**Outside room 133**	**Tan**	**Metal**	**Door frame**	**0.05**	**0.02**	**Yes**
X-07	**Washington Building**	**0015**	**133**	**Entry wall**	**White**	**Gypsum wallboard**	**Wall**	**0.03**	**0.02**	**Yes**
X-08	Washington Building	0015	169	North wall	White	Gypsum wallboard	Wall	0.00	0.02	No

Notes:
a) All results are reported in milligrams per cubic centimeter (mg/cm^2) by a x-ray fluorescence (XRF) analysis.
b) **Bold** indicates sample contains lead

FIGURES
SAMPLE AND ACM LOCATIONS







Legend

Asbestos Bulk Sample Location

P00###

Lead XRF Sample Locations

X-##

As□estos-containing materials

Sheet vinyl flooring

□□" □FT & mastic

□arpet **Sin□ unit**

C S

Notes:

1. Asbestos-containing tan duct mastic is located on metal ducting in the ceiling space throughout.
2. Asbestos-containing mudded pipe insulation may be located in wall-cavities and ceiling spaces throughout.

□st Floor □partial□

GROSS SQUARE FEET 19,947 BLDG. TOTAL: 80,180	**Washington State University Environmental Health & Safety**	**Washington □uilding** **Sample Locations & A□M Locations**	NORTH	BLDG. NO. □□□5 FIGURE NO. **Figure □**

CHAIN-OF-CUSTODY
AND
LABORATORY ANALYTICAL REPORTS

Environmental Hazards Services, L.L.C.
7469 Whitepine Rd
Richmond, VA 23237
Telephone: 800.347.4010

Asbestos Bulk Analysis Report

Report Number: 14-02-02071

Client: Washington State University - Pullman
P.O. BOX 641172
Pullman, WA 99164

Received Date: 02/21/2014
Analyzed Date: 02/21/2014
Reported Date: 02/24/2014

Project/Test Address: Washington Bldg.; Pullman, WA

Client Number: 49-3308

Fax Number: 509-335-4442

Laboratory Results

Lab Sample Number	Client Sample Number	Layer Type	Lab Gross Description	Asbestos	Other Materials
14-02-02071-001	P01073		Beige Fibrous; Homogeneous	NAD	25% Cellulose 5% Fibrous Glass 70% Non-Fibrous
14-02-02071-002	P01074		Beige Fibrous; Homogeneous	NAD	25% Cellulose 5% Fibrous Glass 70% Non-Fibrous
14-02-02071-003	P01075		Beige Fibrous; Homogeneous	NAD	25% Cellulose 5% Fibrous Glass 70% Non-Fibrous
14-02-02071-004	P01076		Beige Fibrous; Homogeneous	NAD	25% Cellulose 5% Fibrous Glass 70% Non-Fibrous
14-02-02071-005	P01077		Tan Adhesive; Homogeneous	3% Chrysotile	97% Non-Fibrous
			Total Asbestos:	3%	

Environmental Hazards Services, L.L.C

Client Number: 49-3308 Report Number: 14-02-02071

Project/Test Address: Washington Bldg.; Pullman, WA

Lab Sample Number	Client Sample Number	Layer Type	Lab Gross Description	Asbestos	Other Materials
14-02-02071-006	P01078		White Chalky; Brown Fibrous; Inhomogeneous	NAD	4% Cellulose 2% Fibrous Glass 94% Non-Fibrous
14-02-02071-007	P01079		White Chalky; White Paint-Like; Inhomogeneous	NAD	3% Fibrous Glass 97% Non-Fibrous
14-02-02071-008	P01080		White Chalky; Brown Fibrous; Inhomogeneous	NAD	5% Cellulose 3% Fibrous Glass 92% Non-Fibrous

Environmental Hazards Services, L.L.C

Client Number: 49-3308 Report Number: 14-02-02071

Project/Test Address: Washington Bldg.; Pullman, WA

Lab Sample Number	Client Sample Number	Layer Type	Lab Gross Description	Asbestos	Other Materials

QC Sample: 14-M11996-2

QC Blank: SRM 1866 Fiberglass

Reporting Limit: 1% Asbestos

Method: EPA Method 600/R-93/116, EPA Method 600/M4-82-020

Analyst: Kathy Sizemore Fletcher

Reviewed By Authorized Signatory: Tasha Eaddy

Tasha Eaddy
QA/QC Clerk

The condition of the samples analyzed was acceptable upon receipt per laboratory protocol unless otherwise noted on this report. Each distinct component in an inhomogeneous sample was analyzed separately and reported as a composite. Results represent the analysis of samples submitted by the client. Sample location, description, area, volume, etc., was provided by the client. This report cannot be used by the client to claim product endorsement by NVLAP or any agency of the U.S. Government. This report shall not be reproduced except in full, without the written consent of the Environmental Hazards Service, L.L.C. California Certification #2319 NY ELAP #11714 NVLAP #101882-0. All information concerning sampling location, date, and time can be found on Chain-of-Custody. Environmental Hazards Services, L.L.C. does not perform any sample collection.

Environmental Hazards Services, L.L.C. recommends reanalysis by point count (for more accurate quantification) or Transmission Electron Microscopy (TEM), (for enhanced detection capabilities) for materials regulated by EPA NESHAP (National Emission Standards for Hazardous Air Pollutants) and found to contain less than ten percent (<10%) asbestos by polarized light microscopy (PLM). Both services are available for an additional fee.

400 Point Count Analysis, where noted, performed per EPA Method 600/R-93/116 with a Reporting Limit of 0.25%.

* All California samples analyzed by Polarized Light Microscopy, EPA Method 600/M4-82-020, Dec. 1982.

LEGEND: NAD = no asbestos detected

8 PLM

EHS Laboratories™

Asbestos Chain-of-Custody

Environmental Hazards Services, LLC

www.leadlab.com
(800)347-4010
(804)275-4907 (fax)

7469 Whitepine Rd
Richmond, VA
23237

14-02-02071

Due Date:
02/24/2014
(Monday)
AE M

Company Name: Washington State University Health and Safety Address: P.O. Box 641172 City/State/Zip: Pullman, WA

Phone: (509) 335-5604 Fax: ( ) E-mail: WSU List Acct. Number: 49-3308 D

Project Name / Testing Address: Washington Bldg. City/State (Required): Pullman, WA

Collected by: Matthew McKibbin Purchase Order Number: 6805-2013

Turn Around Times : ***If no TAT is specified, sample(s) will be processed and charged as 3-day TAT.***

✓ 1 - Day _____ 2 - Day _____ 3 - Day _____ Same Day (Must Call Ahead) _____ Weekend (Must Call Ahead)

No.	Client Sample ID	Date Collected	ASBESTOS							AIR					COMMENTS
			PLM	PLM Point Count 400	PLM Point Count 1000	PLM NY Protocol	PCM	TEM Chatfield (Bulk)	TEM AHERA (Air)	Time On	Time Off	Flow Rate (L/min)	Total Time (minutes)	Volume (Total Liters)	
1	P01073	2/20/14	✓												See data sheet
2	P01074	↓	X												
3	P01075		X												
4	P01076		X												
5	P01077		X												
6	P01078		X												
7	P01079		X												
8	P01080		X												
9															
10															

Released by: Matt McKibbin Signature: Matt McK Date/Time: 2/20/14 1200

Received by: TStone Signature: TStone Date/Time: 2/21/14

Attachment C: Washington Building Good Faith Hazardous Material Survey

PREVIOUS REPORTS

WSU Health Care Facility Hazardous Material Sampling and Testing Report by E3RA, Inc. dated February 3, 2005

and

Good Faith Asbestos Survey for Pullman Memorial Hospital, dated: March 3, 1999

APPENDIX G

Limited Supplemental Good Faith Survey – Remodel 3rd Floor – May 30, 2014

WASHINGTON STATE UNIVERSITY
Environmental Health and Safety

May 30, 2014

Attention: Kevin Poitra

Subject: Limited Supplemental Good Faith Survey
3rd Floor Remodel
Washington Building (#0015)
Washington State University, Pullman, Washington
Job No.: 7176-2013

From: Matthew McKibbin
Industrial Hygienist III
WSU Environmental Health and Safety
AHERA Building Inspector #146780 (exp. May 1, 2015)

The entire 3rd floor at the Washington Building (the Project Area) is schedule for renovation to accommodate the WSU Counseling Services Department. Select wall, floor and ceiling demolition will take place to accommodate the new office and patient spaces. Existing electrical, plumbing and HVAC systems are anticipated to be impacted. An existing Asbestos and Lead Survey for the Washington building was competed by E3RA, Inc. in a report dated February 3, 2005. Supplemental sampling was conducted by Washington State University (WSU) Environmental Health and Safety (EH&S) to meet good faith survey requirements in support of the project. In addition quantities and locations of asbestos-containing materials were updated.

SCOPE OF WORK

The survey update scope of work was limited to the 3rd floor interior spaces.

The scope of services for the supplemental Good Faith survey was limited to the following tasks:

- Perform a supplemental "Good Faith" asbestos survey of the Project Area using the prior Hazardous Material Sampling and Testing Report for the WSU Health Care Facility by E3RA, Inc. in a report dated February 3, 2005 to identify the presence, location, and quantity of asbestos-containing materials (ACM) and presumed asbestos-containing material (PACM) that may be impacted by the proposed project.
- Perform the asbestos survey in accordance with the "Good Faith" asbestos survey requirements in the Washington Administrative Code (WAC) 296-62-07721, and in accordance with the requirements of USEPA AHERA/ASHARA 40 CFR 763.
- Analyze samples by a National Voluntary Laboratory Accreditation Program (NVLAP) accredited laboratory for the presence and quantity of asbestos. Samples are analyzed using polarized light microscopy (PLM) Environmental Protections Agency (EPA) Method 600/R-93/116.
- Perform sampling of representative paints for lead using an x-ray fluorescence (XRF) device.

LIMITATIONS OF THE ASSESSMENT

The conclusions within this report are professional opinions based solely upon visual site observations and interpretations of analytical data as described in this report. The survey excluded areas of the building which were inaccessible and would have caused damage to the building if sampled. Locations where inspectors would have been exposed to chemical or physical hazards were not tested (inside fume hoods with active experiments, HVAC systems in operations, etc). Typical construction techniques can render portions of the structure inaccessible. As a result, additional asbestos-containing materials (ACM) may be present in inaccessible areas (e.g., under metal flashing). Suspect regulated materials within inaccessible areas should be presumed to contain asbestos until characterized. If suspect ACM not identified in this

report are found during demolition/renovation and/or construction stop work that may impact these materials and contact a project officer.

The opinions presented herein apply to the site conditions existing at the time of the investigation, and interpretation of current regulations pertaining to asbestos. Opinions and recommendations provided herein may not apply to future conditions that may exist at the site. Regulatory requirements in effect at the time of the work should be verified prior to any work that impacts regulated materials. This report represents the findings of this survey only, and is not intended to establish scope or contractual terms to regulated material abatement.

ASBESTOS SURVEY METHODOLOGY

Suspect ACM was grouped into homogeneous sampling areas (HSA) and categorized according to 40 CFR 763, as thermal systems insulation (TSI), surfacing material, or miscellaneous material. The sampling plan included, at a minimum, the collection and analysis of samples as follows:

Thermal System Insulation

- In a distributive manner, a minimum of three samples of each HSA that was not presumed to contain asbestos.
- At least one bulk sample from each homogeneous area of patched TSI if the patch was less than 6 square feet.

Surfacing Material

- In a distributive manner, a minimum of three samples collected from each homogeneous area that was 1,000 square feet or less.
- A minimum of five samples collected from each homogeneous area that was greater than 1,000 square feet but less than or equal to 5,000 square feet.
- A minimum of seven samples collected from each homogeneous area that was greater than 5,000 square feet.

Miscellaneous Material

- In a distributive manner as sufficient by the Inspector. At least one sample was collected of each suspect miscellaneous material not presumed to contain asbestos.

Non-Suspect Materials

- Fiberglass, wood, metal, or other generally recognized non-ACM were not sampled.

Asbestos bulk samples and chain-of-custody forms were delivered to Environmental Hazards Services, L.L.C (EHS) in Richmond, Virginia for analysis. Each sample was analyzed using PLM/dispersion staining in accordance with EPA Method 600/R-93/116. The detection limit for this type of analysis is approximately one percent (by volume). Materials containing more than one percent asbestos are considered to be ACM.

LEAD SURVEY METHODOLOGY

This lead survey was performed to assist employers in efforts to comply with the L&I lead standard for the construction industry (WAC 296-155-176) during renovation/demolition. Representative paints were analyzed by a Niton portable x-ray fluorescence (XRF) device. Calibration was conducted within manufacturer's guidelines. Results are reported in milligrams per cubic centimeter (mg/cm^2). Any detection of lead in paint is reported as a lead-containing paint.

RESULTS

Twelve (12) bulk samples were collected as part of our supplemental survey. Three (3) of the samples collected was identified through laboratory analysis as regulated asbestos-containing materials (ACM). Additional ACMs were identified in the Project Area in the prior survey by E3RA and included in the summary below.

The following ACMs were identified in the Project Area:

Material	Location(s) of ACM	Estimated Quantity
Sheet vinyl flooring (various patterns) with paper backing	Rooms: 303A, 305A, 312AB, 314AB, 325A, 327, 326, 328, 333, 338, 339A, 340, 356A, 361 <u>Under carpet in Rooms:</u> 358, 359 <u>Under non-asbestos sheet vinyl flooring in Rooms:</u> 300N, 300W, 319, 325	5,300 SF
12” Vinyl floor tile and black mastic	Rooms: 300E, 300S, 307, 312, 312A, 313, 313AA, 314A, 317, 332, 334, 357, 360, 360A, 360B <u>Under carpet in Rooms:</u> 300, 347, 354, 370 <u>Under non-asbestos sheet vinyl flooring in Rooms:</u> 303, 305, 339, 341	7,200 SF
Black sink undercoat (double-well metal sinks)	Rooms 305, 313, 313AA, 326, 340 and 360	6 EA
Green duct mastic (associated with slot diffusers)	On slot diffuser boxes throughout Project Area	60 SF
Pipe insulation	Wall cavities in Project Area	25 LF

Note: Material quantities are estimated for order of magnitude only. Quantities must be verified in the field for bidding purposes.

Asbestos survey sample numbers, material descriptions, sample locations and analytical results are provided in Table 1. ACM and sample locations are provided on Figures 1 and 2 attached. Prior survey results are found in Appendix B.

The following lead-containing coatings were identified in the Project Area:

Color	Component	Substrate	Location
Tan and white	Ceramic wall tile	Gypsum wallboard	All 4” square ceramic wall tiles in the Project Area

Lead sample numbers, descriptions, locations and results are provided in Table 2. Sample locations are provided on the Figure 1 below.

CONCLUSIONS AND RECOMMENDATIONS

A copy of this report must be provided to any entity bidding on work. A copy of this report must also be on site during any construction activities at the site.

Asbestos-containing Materials

Laboratory analysis revealed that a number of building materials in the Project Area contain regulated quantities of asbestos (see Table 1). The ACMs identified in the Project Area may be impacted by renovation/demolition activities. These ACMs should be removed and disposed prior to disturbance in accordance with WAC 296-62-077. Asbestos abatement must be performed by a licensed asbestos abatement contractor. Specific conclusions are noted below:

Flooring: Friable asbestos-containing sheet vinyl flooring and non-friable vinyl floor tile and mastic were observed throughout most of the Project Area. Many locations were under non-asbestos flooring (i.e. carpet and sheet vinyl). Refer to Figures 1 and 2 for sample and ACM locations and observed conditions.

Pipe Insulation: Asbestos-containing hard pipe insulation was observed in the wall cavity of hallway room 300. This material may be present in wall cavities at other locations as well. Pipes were observed to be insulated with fiberglass throughout the accessible ceiling spaces observed.

Duct mastic: Asbestos-containing green duct mastic is present on the slot diffuser boxes throughout the Project Area. This material may be present under fiberglass duct insulation in other areas as well. Duct shall be observed for the presence of this material during demolition.

Lead-containing Materials

Materials that have been shown to contain detectable levels of lead are regulated by L&I due to the potential for occupational exposure to lead if these materials are disturbed. Renovation/demolition will disturb the lead-containing paints in the Project Area, and may result in worker exposure to lead. Therefore, necessary precautions must be taken to prevent or minimize worker exposure to lead.

PCBs – Light Ballasts

All light ballasts should be removed and inspected for “No PCBs” labeling prior to demolition. Ballasts without “No PCBs” labels should be considered to be PCB ballasts. Handling and disposal of light ballasts must be in accordance with the EPA Toxic Substance Control Act (TSCA) PCB Regulations (40 CFR 761) and Ecology’s Dangerous Waste Regulations (WAC 173-303).

Special precaution should be applied to prevent skin contact if leaking PCB ballasts are encountered during renovation. Leaky ballasts and the light fixtures affected by PCB oils must be handled in accordance with EPA’s PCB Regulations (40 CFR 761). Workers with 40-hour hazardous waste training are required for removal or handling of leaking PCB ballasts.

Mercury –Light Bulbs and Tubes

Fluorescent light tubes and other non-candescent lighting are typically considered Dangerous Waste (per WAC 173-303) due to their potential for containing mercury. Disposal of mercury-containing light tubes/bulbs must be coordinated by WSU EH&S for disposal. Handling, storage, transportation and disposal of these materials must be conducted per WAC 173-303.

TABLE 1
SUMMARY OF ASBESTOS SAMPLING
WASHINGTON BUILDING – REMODEL 3rd FLOOR

Sample #	Building Name	Building #	Sample Location	Material	Material Description	Type	Location Quantity	Quantity Descriptor	Sample Results	ACM?
P01322	**Washington Building**	**0015**	**300W (hallway)**	**Sheet vinyl flooring**	**Tan square dash pattern sheet vinyl (top layer)**	**Misc.**	**900**	**SF**	**NAD**	**Yes***
P01323	**Washington Building**	**0015**	**300W (hallway)**	**Sheet vinyl flooring**	**White/gray speckled pattern sheet vinyl (top layer)**	**Misc.**	**1,500**	**SF**	**NAD**	**Yes***
P01324	**Washington Building**	**0015**	**300W (hallway)**	**Sheet vinyl flooring**	**White/gray pebble pattern sheet viny flooring (bottom layer under P01323)**	**Misc.**	**5,300**	**SF**	**17% CHR**	**Yes**
P01325	Washington Building	0015	325A	Sink unit	Black sink undercoat on metal sink unit	Misc.	1	EA	NAD	No
P01326	**Washington Building**	**0015**	**325**	**Sheet vinyl flooring**	**Gray stone pattern sheet vinyl flooring (bottom layer over P01327)**	**Misc.**	**5,300**	**SF**	**18% CHR**	**Yes**
P01327	**Washington Building**	**0015**	**325**	**Sheet vinyl flooring**	**White/gray speckle pattern sheet vinyl flooring with white mastic (top layer over P01326)**	**Misc.**	**600**	**SF**	**NAD**	**Yes***
P01328	**Washington Building**	**0015**	**319**	**Sheet vinyl flooring**	**Gray blotched pattern sheet vinyl flooring with residual sheet vinyl backing on bottom layer**	**Misc.**	**500**	**SF**	**18% CHR**	**Yes**

Sample #	Building Name	Building #	Sample Location	Material	Material Description	Type	Location Quantity	Quantity Descriptor	Sample Results	ACM?
P01329	Washington Building	0015	300W	Vapor barrier coating	Black asphaltic vapor barrier on concrete wall	Misc.	1,500	SF	NAD	No
P01330	Washington Building	0015	300W	Wallboard system	Gypsum wallboard with joint compound	Misc.	10,000	SF	NAD	No
P01331	Washington Building	0015	300W	Wallboard system	Gypsum wallboard with joint compound	Misc.	10,000	SF	NAD	No
P01332	Washington Building	0015	315A	Ceramic tile	White 4" ceramic wall tile with gray grout and plaster bed	Misc.	50	SF	NAD	No
P01333	Washington Building	0015	345	Ceramic tile	Tan ¾" ceramic floor tile with gray grout and plaster bed	Misc.	30	SF	NAD	No
Previous Survey Information WSU Limited Supplemental Good Faith Survey – Remodel 1st Floor Suites dated March 27, 2014										
P01073	Washington Building	0015	Room 124	Fireproofing	Tan spray-applied fireproofing	Surf.	2,500	SF	NAD	No
P01074	Washington Building	0015	Room 120	Fireproofing	Tan spray-applied fireproofing	Surf.	2,500	SF	NAD	No
P01075	Washington Building	0015	Room 133	Fireproofing	Tan spray-applied fireproofing	Surf.	2,500	SF	NAD	No
P01076	Washington Building	0015	Room 100	Fireproofing	Tan spray-applied fireproofing	Surf.	2,500	SF	NAD	No
P01077	**Washington Building**	**0015**	**Room 120**	**Duct mastic**	**Tan duct mastic on round metal ducts in ceiling space**	**Misc.**	**60**	**LF**	**3% CHR**	**Yes**

Sample #	Building Name	Building #	Sample Location	Material	Material Description	Type	Location Quantity	Quantity Descriptor	Sample Results	ACM?
P01078	Washington Building	0015	Room 124	Wallboard system	Gypsum wallboard with joint compound	Misc.	1,500	SF	NAD	No
P01079	Washington Building	0015	Room 133	Wallboard system	Gypsum wallboard with joint compound	Misc.	1,500	SF	NAD	No
P01080	Washington Building	0015	Room 169	Wallboard system	Gypsum wallboard with joint compound	Misc.	1,500	SF	NAD	No
Previous Survey Information WSU Health Care Facility Hazardous Material Sampling by E3RA dated February 3, 2005										
GWB-01-1 to GWB-01-4	Washington Building	0015	N/A	Wallboard system	Gypsum wallboard with joint compound	Misc.	1,500	SF	NAD	No
SU-01-1	**Washington Building**	**0015**	**339**	**Sink undercoating**	**Black sink undercoating**	**Misc.**	**7**	**EA**	**2% CHR**	**Yes**
FD-01-1	Washington Building	0015	362	Fire door	Brown composite fire door with white chalky insulation	Misc.	1	EA	NAD	No
CB-01-1	Washington Building	0015	360	Vinyl cove base	4” Tan cove base with light and dark brown mastic	Misc.	20	SF	NAD	No
CB-02-1	Washington Building	0015	360	Vinyl cove base	6” Tan cove base with brown and tan mastic	Misc.	20	SF	NAD	No
CB-05-1	Washington Building	0015	340	Vinyl cove base	6” Dark brown cove base with dark tan mastic	Misc.	150	SF	NAD	No
CB-06-1	Washington Building	0015	N/A	Vinyl cove base	4” Dark brown cove base with brown mastic	Misc.	100	SF	NAD	No

Sample #	Building Name	Building #	Sample Location	Material	Material Description	Type	Location Quantity	Quantity Descriptor	Sample Results	ACM?
Previous Survey Information Good Faith Asbestos Survey for Pullman Memorial Hospital by Northwest Envirocon, Inc., dated March 3, 1999										
200-1 To 200-3	Washington Building	0015	N/A	Fireproofing	Tan spray-applied fireproofing	Surf	2,500	SF	NAD	No
400	**Washington Building**	**0015**	**N/A**	**Vinyl floor tile**	**12" Vinyl floor tile and mastic (off-white and brown)**	**Misc.**	**7,200**	**SF**	NAD (tile), **3% CHR (mastic)**	**Yes**
409	**Washington Building**	**0015**	**N/A**	**Vinyl floor tile**	**12" Floor tile and mastic (gray and white)**	**Misc.**	**7,200**	**SF**	**3% CHR (mastic)**	**Yes**
500-1 to 500-3	Washington Building	0015	N/A	Wallboard system	Gypsum wallboard with joint compound	Misc.	1,500	SF	NAD	No
501-1 to 501-3	Washington Building	0015	N/A	Plaster	Plaster	Surf.	500	SF	NAD	No
502-1 to 502-3	Washington Building	0015	N/A	Vinyl cove base	4-6" Brown vinyl cove base and mastic	Misc.	250	SF	NAD	No
600-1 to 600-3	Washington Building	0015	N/A	Suspended ceiling tile	2'x4' White random pinhole pattern suspended ceiling tile	Misc.	2,500	SF	NAD	No

Notes:

a) All asbestos analytical results are reported as percent asbestos per volume of bulk material sampled, as determined by U.S EPA Method 600/R-93/116.
b) * = Denotes asbestos-containing flooring observed in deeper layers at this location
c) SF = Square feet
d) LF = Linear feet
e) N/A = No information available
f) NAD = No asbestos detected
g) CHR = Chrysotile asbestos
h) Misc. = Miscellaneous material
i) Surf. = Surfacing material
j) **Bold** type indicates samples that contain asbestos

TABLE 2
SUMMARY OF LEAD PAINT SAMPLING
WASHINGTON BUILDING – REMODEL 3rd FLOOR

Sample #	Building Name	Building #	Sample Location (Room #)	Location Description	Paint Color	Substrate	Component	Result (mg/cm^2)	Error (mg/cm^2)	Lead-Containing
X-01	Washington Building	0015	300S	South hallway	Gray	Gypsum wallboard	Wall	0.00	0.02	No
X-02	Washington Building	0015	360	South wing	Gray	Gypsum wallboard	Wall	0.00	0.02	No
X-03	**Washington Building**	**0015**	**361**	**South wing restroom**	**Tan**	**4" Tan ceramic wall tiles**	**Wall**	**7.6**	**0.7**	**Yes**
X-04	Washington Building	0015	300	Hallway with tan wallpaper	Tan	Gypsum wallboard	Wall	0.00	0.02	No
X-05	Washington Building	0015	300	Hallway	Pink	Metal	Door frame	0.00	0.02	No
X-06	**Washington Building**	**0015**	**303A**	**Restroom**	**White**	**4" White ceramic wall tiles**	**Wall**	**8.0**	**0.5**	**Yes**
X-07	Washington Building	0015	300N	North hallway	White	Gypsum wallboard	Wall	0.00	0.02	No
X-08	Washington Building	0015	319	Surgery suite	Blue	Gypsum wallboard	Wall	0.00	0.02	No
X-09	Washington Building	0015	326	Partition wall	White	Gypsum wallboard	Wall	0.00	0.02	No

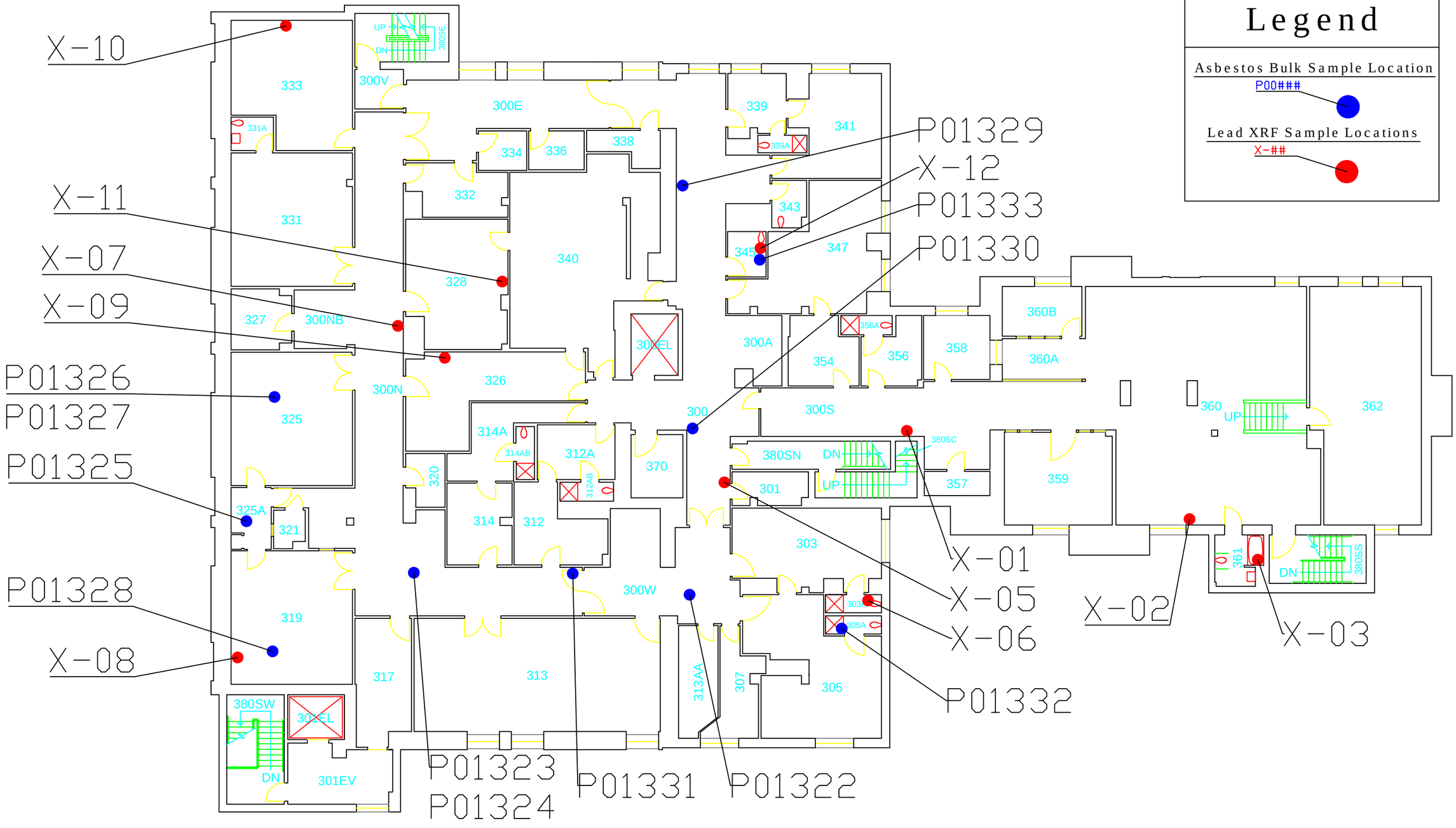
Sample #	Building Name	Building #	Sample Location (Room #)	Location Description	Paint Color	Substrate	Component	Result (mg/cm^2)	Error (mg/cm^2)	Lead-Containing
X-10	Washington Building	0015	333	Perimeter wall	White	Gypsum wallboard	Wall	0.00	0.02	No
X-11	**Washington Building**	**0015**	**328**	**Partition wall**	**White**	**4" White ceramic wall tiles**	**Wall**	**7.5**	**0.6**	**Yes**
X-12	**Washington Building**	**0015**	**345**	**Restroom**	**Tan**	**4" Tan ceramic wall tiles**	**Wall**	**9.4**	**0.8**	**Yes**

Notes:

a) All results are reported in milligrams per cubic centimeter (mg/cm^2) by a x-ray fluorescence (XRF) analysis.

b) **Bold** indicates sample contains lead

FIGURES
SAMPLE AND ACM LOCATIONS



Third Floor Plan

GROSS SQUARE FEET 17,366 BLDG. TOTAL: 80,180	**Washington State University** **Environmental Health & Safety**	**Washington □uilding** **Figure □- Sample Locations**	NORTH	BLDG. NO. □5 FIGURE NO. Figure □

Legend

Asbestos-Containing Materials (ACM)

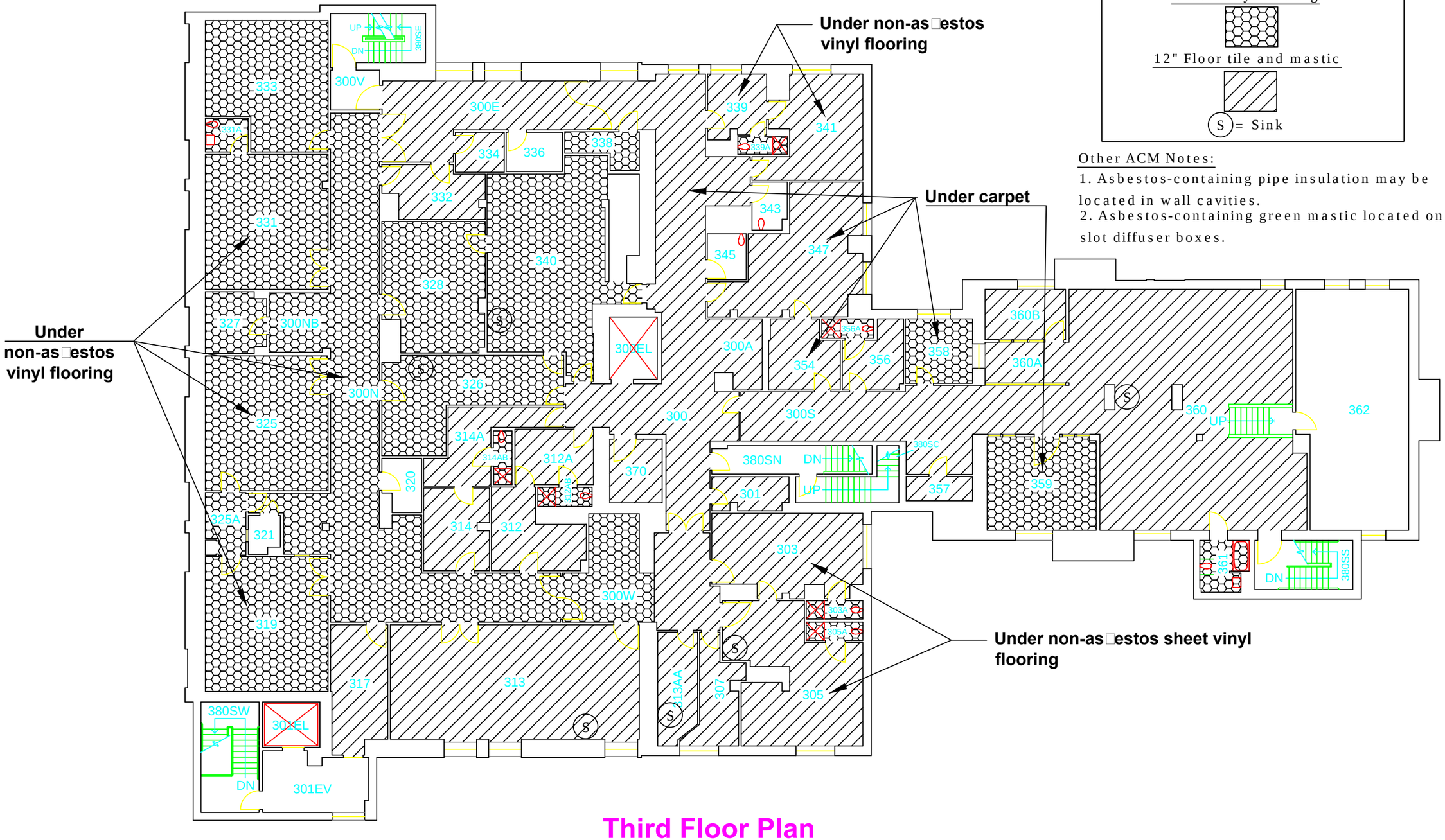
Sheet vinyl flooring

12" Floor tile and mastic

S = Sink

Other ACM Notes:

1. Asbestos-containing pipe insulation may be located in wall cavities.
2. Asbestos-containing green mastic located on slot diffuser boxes.



Third Floor Plan

GROSS SQUARE FEET 17,366 BLDG. TOTAL: 80,180	**Washington State University** **Environmental Health & Safety**	**Washington Building** **Figure - ACM Locations**	NORTH	BLDG. NO. 5 FIGURE NO. Figure

CHAIN-OF-CUSTODY
AND
LABORATORY ANALYTICAL REPORTS

Environmental Hazards Services, L.L.C.
7469 Whitepine Rd
Richmond, VA 23237
Telephone: 800.347.4010

Asbestos Bulk Analysis Report

Report Number: 14-05-02768

Client: Washington State University - Pullman
P.O. BOX 641172
Pullman, WA 99164

Received Date: 05/23/2014
Analyzed Date: 05/24/2014
Reported Date: 05/27/2014

Project/Test Address: WA Bldg; 3rd Floor; Pullman, WA

Client Number: 49-3308

Fax Number: 509-335-4442

Laboratory Results

Lab Sample Number	Client Sample Number	Layer Type	Lab Gross Description	Asbestos	Other Materials
14-05-02768-001	P01322		Pale Beige/Pale Gray/White Vinyl-Like; Pale Beige Fibrous; Inhomogeneous	NAD	17% Cellulose 8% Fibrous Glass 75% Non-Fibrous
Insufficient quantity of mastic on flooring sample for analysis of mastic.					
14-05-02768-002A	P01323	Flooring	Off-White/Pale Gray/White Vinyl-Like; Pale Beige Fibrous; Inhomogeneous	NAD	17% Cellulose 8% Fibrous Glass 75% Non-Fibrous
14-05-02768-002B	P01323	Mastic	Pale Yellow Adhesive; Homogeneous	NAD	5% Cellulose 2% Fibrous Glass 1% Synthetic 92% Non-Fibrous
14-05-02768-003A	P01324	Flooring	Off-White/White Vinyl-Like; Off-White Fibrous; Inhomogeneous	17% Chrysotile	5% Cellulose 78% Non-Fibrous
			Total Asbestos:	17%	

Chrysotile present in fibrous backing layer.

Environmental Hazards Services, L.L.C

Client Number: 49-3308 Report Number: 14-05-02768

Project/Test Address: WA Bldg; 3rd Floor; Pullman, WA

Lab Sample Number	Client Sample Number	Layer Type	Lab Gross Description	Asbestos	Other Materials
14-05-02768-003B	P01324	Mastic	Yellow Adhesive; Homogeneous	2% Chrysotile	4% Cellulose 1% Hair 93% Non-Fibrous
			Total Asbestos:	2%	
Chrysotile may be present as a contaminant from adjacent fibrous backing.					
14-05-02768-004	P01325		Black Pliable to Brittle; Homogeneous	NAD	2% Cellulose 1% Fibrous Glass 97% Non-Fibrous
14-05-02768-005A	P01326	Flooring	Off-White/Pale Tan-Gray Vinyl-Like; Off-White Fibrous; Inhomogeneous	18% Chrysotile	82% Non-Fibrous
			Total Asbestos:	18%	
Chrysotile present in fibrous backing layer.					
14-05-02768-005B	P01326	Other *	Yellow Adhesive; Gray Cementitious; Inhomogeneous	2% Chrysotile	5% Cellulose 93% Non-Fibrous
			Total Asbestos:	2%	
* Mastic/Embedded Cementitious Substrate; chrysotile may be present as a contaminant from adjacent fibrous backing.					
14-05-02768-006A	P01327	Flooring	White/Pale Gray Vinyl-Like; Homogeneous	NAD	100% Non-Fibrous
14-05-02768-006B	P01327	Mastic	Off-White Adhesive; Homogeneous	NAD	2% Cellulose 98% Non-Fibrous
14-05-02768-007A	P01328	Other *	Off-White/Gray Vinyl-Like; Homogeneous	NAD	100% Non-Fibrous
* Top Layer Flooring					
14-05-02768-007B	P01328	Other *	Off-White Adhesive; Homogeneous	NAD	2% Cellulose 1% Synthetic 97% Non-Fibrous
* Mastic Between Top Layer Flooring and Leveling Compound					

Environmental Hazards Services, L.L.C

Client Number: 49-3308 Report Number: 14-05-02768

Project/Test Address: WA Bldg; 3rd Floor; Pullman, WA

Lab Sample Number	Client Sample Number	Layer Type	Lab Gross Description	Asbestos	Other Materials
14-05-02768-007C	P01328	Other *	White Brittle; Homogeneous	NAD	4% Cellulose 96% Non-Fibrous
* Leveling Compound					
14-05-02768-007D	P01328	Other *	Off-White Fibrous; Homogeneous	65% Chrysotile	25% Cellulose 10% Non-Fibrous
				Total Asbestos: 65%	
* Bottom Layer Flooring Beneath Leveling Compound (Residual Sheet Flooring Backing)					
14-05-02768-007E	P01328	Other *	Pale Yellow Adhesive; Gray Cementitious; Inhomogeneous	2% Chrysotile	3% Cellulose 1% Hair 94% Non-Fibrous
				Total Asbestos: 2%	
* Mastic/Embedded Cementitious Substrate Beneath Bottom Layer Flooring; chrysotile may be present as a contaminant from adjacent fibrous backing.					
14-05-02768-008	P01329		Gray/Pale Tan Cementitious; Black Brittle; Inhomogeneous	NAD	100% Non-Fibrous
14-05-02768-009	P01330		Off-White/White Brittle; Tan Fibrous; Inhomogeneous	NAD	12% Cellulose 5% Fibrous Glass 83% Non-Fibrous
14-05-02768-010	P01331		Off-White/White/Pale Yellow Brittle; Tan Fibrous; Inhomogeneous	NAD	15% Cellulose 5% Fibrous Glass 80% Non-Fibrous
14-05-02768-011A	P01332	Ceramic Tile	White/Off-White Brittle; Inhomogeneous	NAD	100% Non-Fibrous

Environmental Hazards Services, L.L.C

Client Number: 49-3308 Report Number: 14-05-02768

Project/Test Address: WA Bldg; 3rd Floor; Pullman, WA

Lab Sample Number	Client Sample Number	Layer Type	Lab Gross Description	Asbestos	Other Materials
14-05-02768-011B	P01332	Grout	White Brittle; Homogeneous	NAD	100% Non-Fibrous
14-05-02768-011C	P01332	Other *	Yellow Adhesive; Tan/Pale Green Fibrous; Inhomogeneous	NAD	30% Cellulose 1% Synthetic 1% Hair 68% Non-Fibrous
* Mastic/Embedded Drywall Facing Paper					
14-05-02768-012A	P01333	Ceramic Tile	Pale Tan/Off-White Brittle; Homogeneous	NAD	100% Non-Fibrous
14-05-02768-012B	P01333	Grout	Gray Cementitious; Homogeneous	NAD	100% Non-Fibrous
14-05-02768-012C	P01333	Other *	Gray Cementitious; Tan Fibrous; Inhomogeneous	NAD	12% Cellulose 88% Non-Fibrous
* Mortar/Embedded Mosaic Webbing Paper					

Environmental Hazards Services, L.L.C

Client Number: 49-3308 Report Number: 14-05-02768

Project/Test Address: WA Bldg; 3rd Floor; Pullman, WA

Lab Sample Number	Client Sample Number	Layer Type	Lab Gross Description	Asbestos	Other Materials

QC Sample: 40-M2-1998-2

QC Blank: SRM 1866 Fiberglass

Reporting Limit: 1% Asbestos

Method: EPA Method 600/R-93/116, EPA Method 600/M4-82-020

Analyst: Mark Case

Reviewed By Authorized Signatory: Tasha Eaddy

Tasha Eaddy
QA/QC Clerk

The condition of the samples analyzed was acceptable upon receipt per laboratory protocol unless otherwise noted on this report. Each distinct component in an inhomogeneous sample was analyzed separately and reported as a composite. Results represent the analysis of samples submitted by the client. Sample location, description, area, volume, etc., was provided by the client. This report cannot be used by the client to claim product endorsement by NVLAP or any agency of the U.S. Government. This report shall not be reproduced except in full, without the written consent of the Environmental Hazards Service, L.L.C. California Certification #2319 NY ELAP #11714 NVLAP #101882-0. All information concerning sampling location, date, and time can be found on Chain-of-Custody. Environmental Hazards Services, L.L.C. does not perform any sample collection.

Environmental Hazards Services, L.L.C. recommends reanalysis by point count (for more accurate quantification) or Transmission Electron Microscopy (TEM), (for enhanced detection capabilities) for materials regulated by EPA NESHAP (National Emission Standards for Hazardous Air Pollutants) and found to contain less than ten percent (<10%) asbestos by polarized light microscopy (PLM). Both services are available for an additional fee.

400 Point Count Analysis, where noted, performed per EPA Method 600/R-93/116 with a Reporting Limit of 0.25%.

* All California samples analyzed by Polarized Light Microscopy, EPA Method 600/M4-82-020, Dec. 1982.

LEGEND: NAD = no asbestos detected

12 PLM

14-05-02768

Due Date:
~ 05/27/2014
(Tuesday)
AE M

NDK

Asbestos Chain-of-Custody

Attachment C: Washington Building Flood Fall Hazardous Material Survey

Environmental Hazards Services, LLC

www.leadlab.com
(800)347-4010
(804)275-4907 (fax)

7469 Whitepine Rd
Richmond, VA
23237

Company Name: Washington State University Health and Safety Address: P.O. Box 641172 City/State/Zip: Pullman, WA 99164

Phone: (509) 335-5604 Fax: ( ) E-mail: WSU List Acct. Number: 49-3308 D

Project Name / Testing Address: WA Bldg - 3rd Floor City/State (Required): Pullman, WA

Collected by: Matthew McKibbin Purchase Order Number: 7176-2013

Turn Around Times : *If no TAT is specified, sample(s) will be processed and charged as 3-day TAT.*

✓ 1 - Day _____ 2 - Day _____ 3 - Day _____ Same Day (Must Call Ahead) _____ Weekend (Must Call Ahead)

No.	Client Sample ID	Date Collected	ASBESTOS							AIR					COMMENTS
			PLM	PLM Point Count 400	PLM Point Count 1000	PLM NY Protocol	PCM	TEM Chatfield (Bulk)	TEM AHERA (Air)	Time On	Time Off	Flow Rate (L/min)	Total Time (minutes)	Volume (Total Liters)	
1	P01322	5/20/14	✓												See data sheet
2	P01323	"	X												12 Samples
3	P01324	"	X												
4	P01325	"	X												
5	P01326	"	X												
6	P01327	"	X												
7	P01328	"	X												
8	"	"	X												
9	"	"	X												
10	P01333	"	X												

Released by: Matthew McKibbin Signature: [signature] Date/Time: 5/21/14 / 1200

Received by: DSBritt Signature: DSBritt Date/Time: 5/23/14

APPENDIX H

WSU Health Care Facility Hazardous Material Sampling & Testing – E3RA, Inc – February 3, 2005

APPENDIX I

Laboratory Accreditations and Certificates

United States Department of Commerce
National Institute of Standards and Technology

Certificate of Accreditation to ISO/IEC 17025:2017

NVLAP LAB CODE: 102063-0

NVL Laboratories, Inc.

Seattle, WA

is accredited by the National Voluntary Laboratory Accreditation Program for specific services, listed on the Scope of Accreditation, for:

Asbestos Fiber Analysis

This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2017. This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory quality management system (refer to joint ISO-ILAC-IAF Communique dated January 2009).

2021-10-01 through 2022-09-30

Effective Dates

For the National Voluntary Laboratory Accreditation Program

National Voluntary Laboratory Accreditation Program

SCOPE OF ACCREDITATION TO ISO/IEC 17025:2017

NVL Laboratories, Inc.
4708 Aurora Avenue N.
Seattle, WA 98103
Mr. Nghiep Vi Ly
Phone: 206-547-0100 Fax: 206-634-1936
Email: nick.l@nvllabs.com
http://www.nvllabs.com

ASBESTOS FIBER ANALYSIS **NVLAP LAB CODE 102063-0**

Bulk Asbestos Analysis

Code	*Description*
18/A01	EPA -- 40 CFR Appendix E to Subpart E of Part 763, Interim Method of the Determination of Asbestos in Bulk Insulation Samples
18/A03	EPA 600/R-93/116: Method for the Determination of Asbestos in Bulk Building Materials

For the National Voluntary Laboratory Accreditation Program

APPENDIX J

Building Inspector Training Certificate

Attachment C: Washington Building Good Faith Hazardous Material Survey

Certificate of Completion

This is to certify that

Stephan Gilley

has satisfactorily completed
4 hours of online refresher training as an

AHERA Building Inspector

to comply with the training requirements of
TSCA Title II, 40 CFR 763 (AHERA)

EPA Provider # 1085

181389
Certificate Number

ARGUS PACIFIC
TRAINING • CONSULTING
A Terracon COMPANY

Apr 21, 2021 Expires in 1 year.
Date(s) of Training

Exam Score: N/A
(if applicable)

Susan N Maas

Instructor: Sue Maas

ARGUS PACIFIC, INC / 21905 64th AVE W, SUITE 100 / MOUNTLAKE TERRACE, WASHINGTON 98043 / 206.285.3373 / ARGUSPACIFIC.COM

WASHINGTON STATE UNIVERSITY

Environmental Health and Safety

Good Faith Survey
Todd Hall (0055)
Washington State University, Pullman, Washington

November 14, 2013



Prepared by:

Matthew McKibbin
Industrial Hygienist III
WSU Environmental Health and Safety
AHERA Building Inspector #141107 (exp. March 27, 2014)

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4 CONCLUSIONS AND RECOMMENDATIONS 3

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Figure 1 – Sub Basement/Basement - Sample Locations
Figure 2 – 1st Floor - Sample Locations
Figure 3 – 2nd Floor - Sample Locations
Figure 4 – 3rd Floor - Sample Locations
Figure 5 – 4th Floor - Sample Locations
Figure 6 – Penthouse/Roof/Exterior – Sample Locations

TABLES

Table 1 – Summary of Asbestos Sampling and Analytical Results
Table 2 – Summary of Lead Sampling and Analytical Results
Table 3 – Homogeneous Material Locations

APPENDICES

Appendix A –-Chain of Custody Forms and Laboratory Analytical Results
Appendix B – Laboratory Accreditations and Certificates
Appendix C – Building Inspector Training Certificate

1 INTRODUCTION

Washington State University (WSU) Environmental Health and Safety (EH&S) conducted a Good Faith Asbestos Survey of Todd Hall in October and November of 2013. Todd Hall is a four story reinforced concrete classroom building with basement and penthouse mechanical levels. Originally built in 1949, Todd Hall received extensive renovation in 1970 and during the Todd Hall Addition to the structure in 1990.

1.1 LIMITATIONS OF THE ASSESSMENT

The conclusions within this report are professional opinions based solely upon visual site observations and interpretations of analytical data as described in this report. The survey excluded areas of the building which were inaccessible and would have caused damage to the building if sampled. Locations where inspectors would have been exposed to chemical or physical hazards were not tested (inside fume hoods with active experiments, HVAC systems in operations, etc). Typical construction techniques can render portions of the structure inaccessible. As a result, additional asbestos-containing materials (ACM) may be present in inaccessible areas (e.g., wall cavities, within energized systems). Suspect regulated materials within inaccessible areas should be presumed to contain asbestos until characterized.

Specific areas which were not observed nor sampled include the 2nd and 3rd floor roofs, all technology closets (room numbers designated with a “T”), and basement rooms 16, 16A and 16B.

The opinions presented herein apply to the site conditions existing at the time of the investigation, and interpretation of current regulations pertaining to asbestos. Opinions and recommendations provided herein may not apply to future conditions that may exist at the site. Regulatory requirements in effect at the time of the work should be verified prior to any work that impacts regulated materials. This report represents the findings of this survey only, and is not intended to establish scope or contractual terms to regulated material abatement.

2 METHODOLOGY

This good faith survey was conducted by Matthew McKibbin of EH&S, AHERA Building Inspector #141107 (exp. March 27, 2014) in October and November of 2013. Our asbestos survey was performed in accordance with good faith survey requirements outlined in WAC 296-62-07721.

In order to identify suspect ACM, EH&S conducted a walk-through survey of accessible portions of Todd Hall. However, not all concealed areas or sub-surface suspect materials may have been surveyed (see Limiting Conditions in Section 1.1). Approximate quantities of suspect materials were estimated by field measurements. Quantities given are intended for order of magnitude only.

2.1 Asbestos Bulk Sampling

Suspect ACM was grouped into homogeneous sampling areas (HSA) and categorized according to 40 CFR 763, as thermal systems insulation (TSI), surfacing material, or miscellaneous material. Sampling previously conducted by PBS was used to supplement homogeneous areas identified in this survey. The sampling plan included, at a minimum, the collection and analysis of samples as follows:

<u>Thermal System Insulation</u>

- In a distributive manner, a minimum of three samples of each HSA that was not presumed to contain asbestos.
- At least one bulk sample from each homogeneous area of patched TSI if the patch was less than 6 square feet.

Surfacing Material

- In a distributive manner, a minimum of three samples collected from each homogeneous area that was 1,000 square feet or less.
- A minimum of five samples collected from each homogeneous area that was greater than 1,000 square feet but less than or equal to 5,000 square feet.
- A minimum of seven samples collected from each homogeneous area that was greater than 5,000 square feet.

Miscellaneous Material

- In a distributive manner as deemed sufficient by the Inspector. At least one sample was collected of each suspect miscellaneous material not presumed to contain asbestos.

Non-Suspect Materials

- Fiberglass, wood, metal, or other generally recognized non-ACM were not sampled.

Asbestos bulk samples and chain-of-custody forms were delivered to Environmental Hazards Services, L.L.C (EHS) in Richmond, Virginia for analysis. Each sample was analyzed using PLM/dispersion staining in accordance with EPA Method 600/R-93/116. The detection limit for this type of analysis is approximately one percent (by volume). Materials containing more than one percent asbestos are considered to be ACM.

2.2 Lead Paint/Coatings Sampling

This lead survey was performed to assist employers in efforts to comply with the L&I lead standard for the construction industry (WAC 296-155-176) during renovation/demolition. Representative paints were analyzed by a Niton portable x-ray fluorescence (XRF) device. Calibration was conducted within manufacturer's guidelines. Results are reported in milligrams per cubic centimeter (mg/cm^2). Any detection of lead in paint is reported as a lead-containing paint.

3 RESULTS

The following section details the results of asbestos sampling conducted by WSU EH&S. Sample locations are provided on Figures 1 through 6. Asbestos survey sample numbers, material descriptions, sample locations and analytical results are provided in Table 2. Copies of laboratory analysis reports and chain-of-custody documents are provided in Appendix B. Quantities are estimated for order of magnitude only.

3.1 ASBESTOS-CONTAINING MATERIALS

The following ACMs were identified:

Material	Location(s) of ACM	Approximate Quantity
Window putty (on exterior frame and panes)	Original windows in mechanical penthouse Rooms 501/502	3 EA (Windows) 54 LF (putty)
Capstone joint packing	Roof level capstones (under lead joint packing in areas)	250 LF
Pipe insulation (6"-24" O.D.)	Utility tunnel entrance – Basement rooms 10L and 10	20 LF

The following materials are assumed to contain asbestos:

Material	Location(s) of ACM	Approximate Quantity
Flange gaskets	Pipe gaskets throughout Todd Hall	200 EA
Fire doors	Lead-lined fire doors in the basement and wood fire doors throughout Todd Hall	150 EA

Asbestos survey sample numbers, material descriptions, sample locations and analytical results are provided in Table 1. Sample locations are provided on Figures 1 through 6.

3.2 Lead-containing Paints/Coatings

The following materials lead-containing paints/coatings were identified:

Color	Component	Substrate	Location
Gray	Stairs and doors	Concrete and metal	All basement level stairwells and doors
Red	Door frames	Metal	Basement level door frames
Red	Flooring	Ceramic tile	Throughout corridors of Todd Hall
Green	Wall	Plaster	Mechanical room 501

Lead paint/coatings sample numbers, descriptions, locations and results are provided in Table 2.

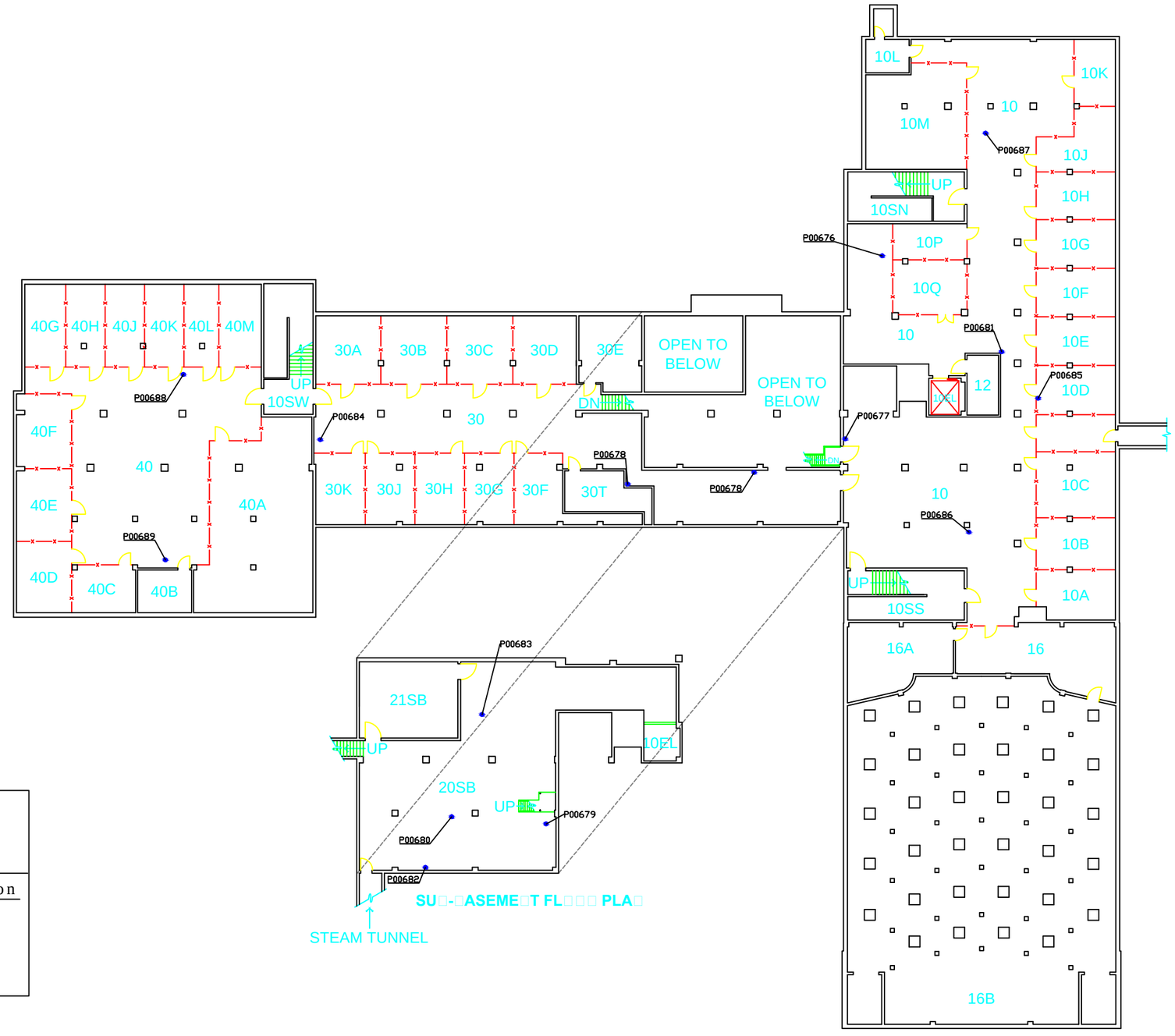
4 CONCLUSIONS AND RECOMMENDATIONS

Laboratory analysis revealed that window putty on original mechanical penthouse level windows and roof level capstone joint packing contain regulated quantities of asbestos (see Results Section 3.1 and Appendix A). Contractors should use caution during construction even after asbestos abatement activities, as concealed ACM that has not previously been analyzed for asbestos may be encountered. Inaccessible concealed spaces (e.g., wall and ceiling spaces enclosed by wallboard, internal components of energized systems etc. have not been surveyed for ACM, and should be presumed to contain asbestos until destructive sampling is performed in those areas.

Materials that have been shown to contain detectable levels of lead are regulated by L&I due to the potential for occupational exposure to lead if these materials are disturbed. Renovation/demolition may disturb the lead-containing coatings and building materials in the Project Area, and may result in worker exposure to lead. Therefore, necessary precautions must be taken to prevent or minimize worker exposure to lead.

A copy of this report must be provided to any entity bidding on work. A copy of this report must also be on site during any construction activities at the site. ACM identified should be removed and disposed prior to disturbance in accordance with WAC 296-62-077. Asbestos abatement must be performed by a licensed asbestos abatement contractor.

FIGURES



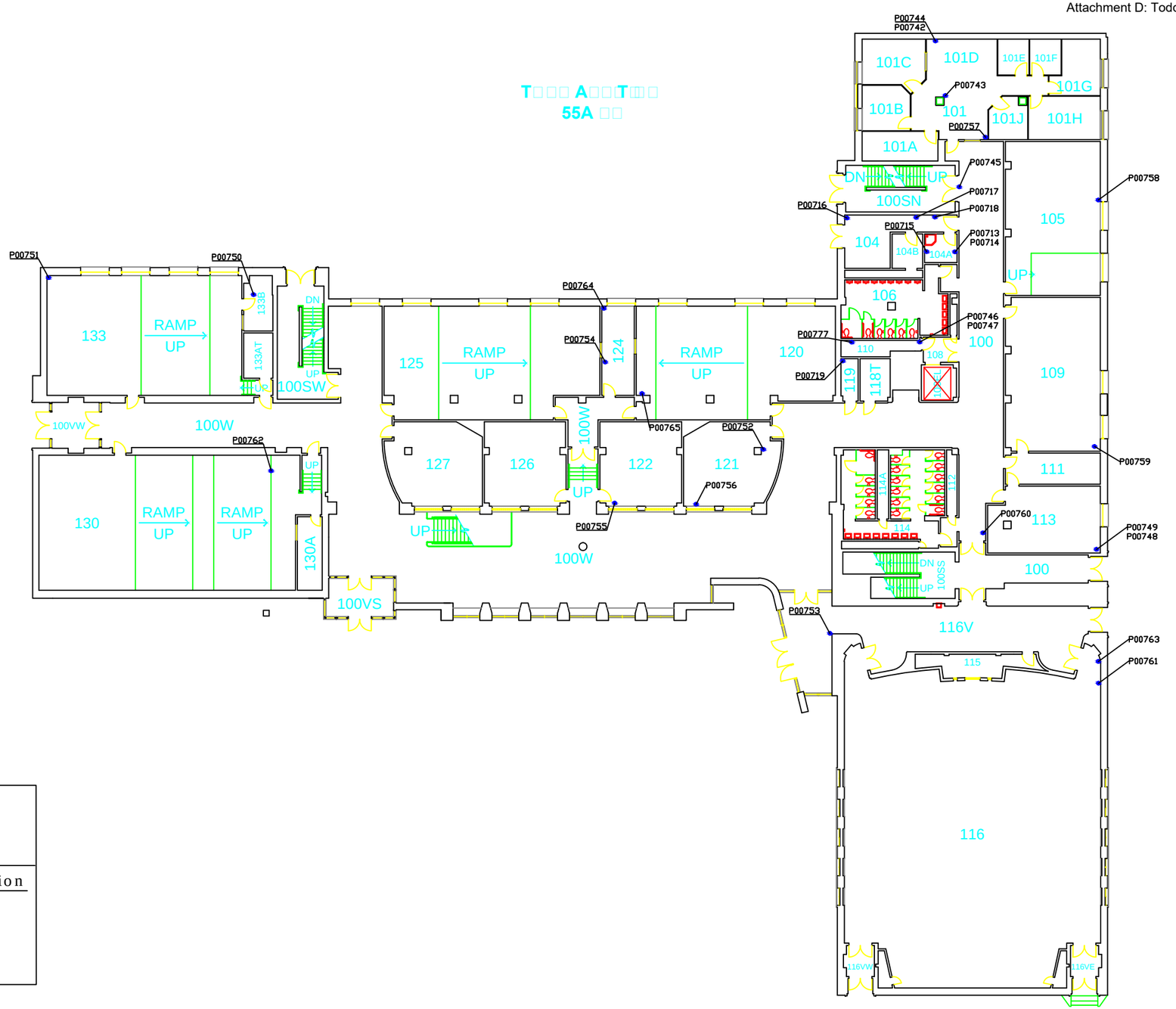
Legend

Asbestos Bulk Sample Location

P00###

Su□-□asement and □asement Floor Plan

GROSS SQUARE FEET 32,922 BLDG. TOTAL: 153,682	**Washington State University** **Environmental Health & Safety**	**Todd Hall** **Figure □- Sample Locations**	NORTH	WASHINGTON STATE UNIVERSITY	BLDG. NO. 55 FIGURE NO. Figure □



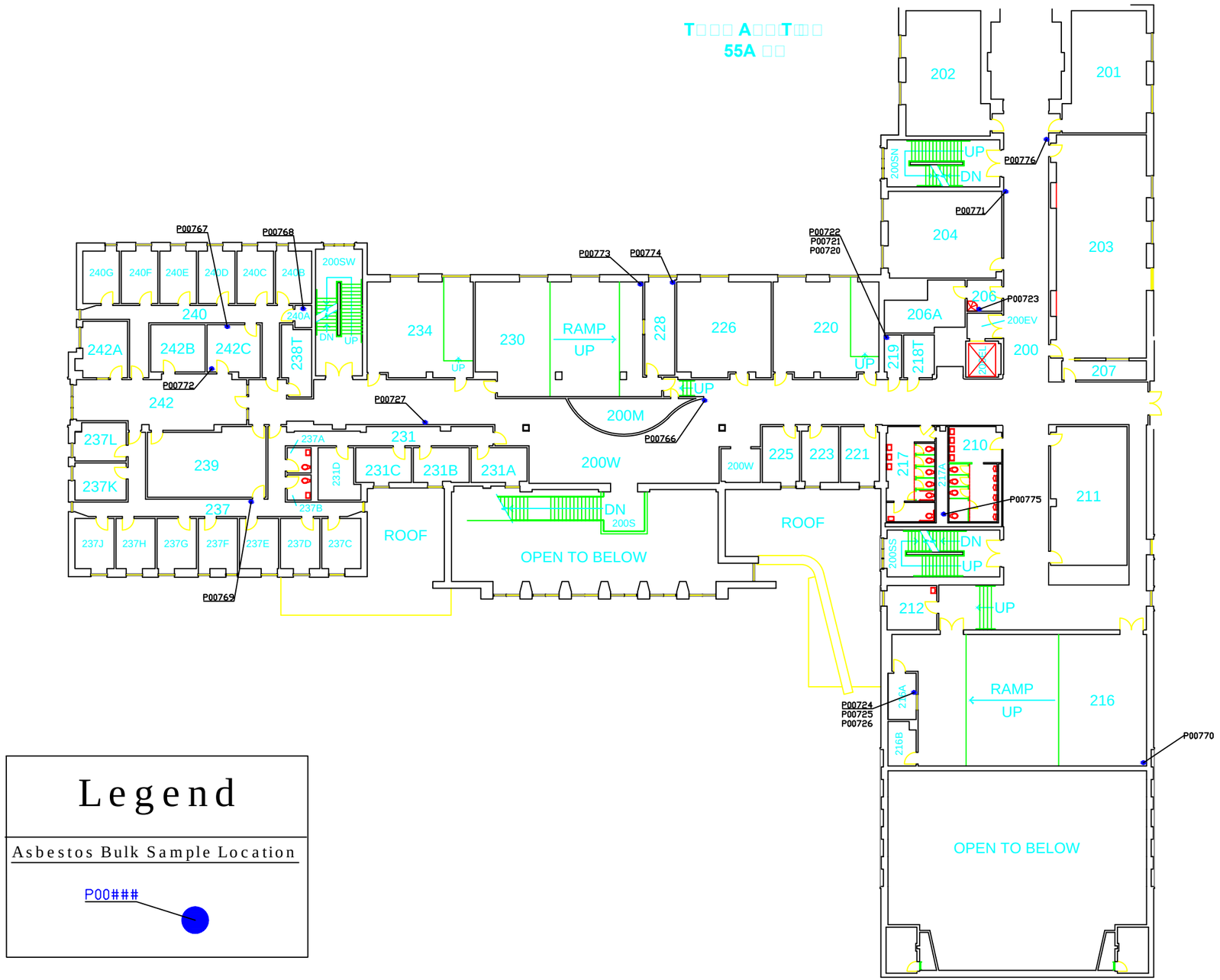
Legend

Asbestos Bulk Sample Location

P00###

First Floor Plan

GROSS SQUARE FEET					
35,318	Washington State University	Todd Hall	NORTH	WASHINGTON STATE UNIVERSITY	BLDG. NO. 55
BLDG. TOTAL: 153,682	Environmental Health & Safety	Figure □- Sample Locations			FIGURE NO. Figure □



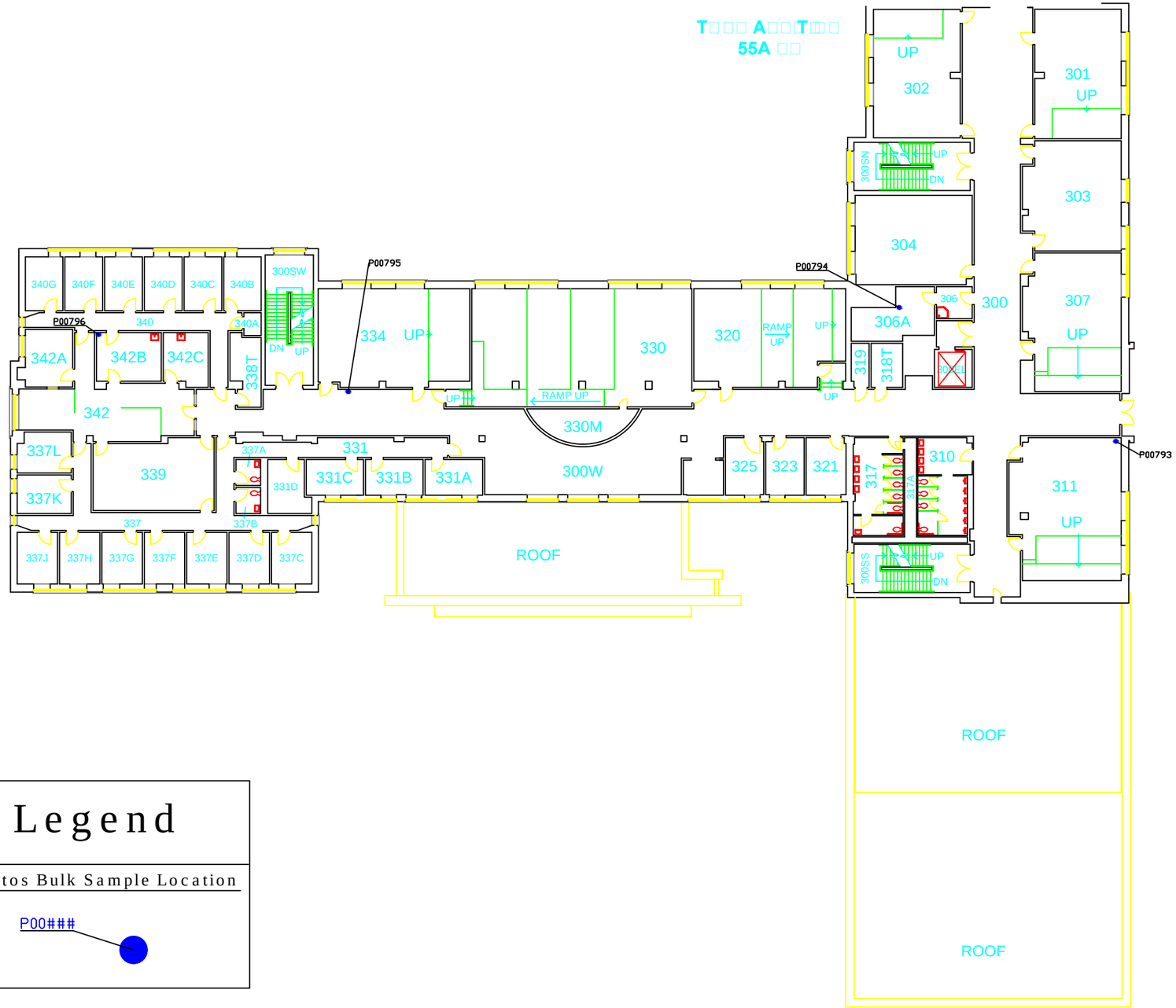
Legend

Asbestos Bulk Sample Location

P00###

Second Floor Plan

GROSS SQUARE FEET 28,358 BLDG. TOTAL: 153,682	**Washington State University** **Environmental Health & Safety**	**Todd Hall** **Figure □- Sample Locations**	NORTH	WASHINGTON STATE UNIVERSITY	BLDG. NO. 55 FIGURE NO. Figure □



Legend

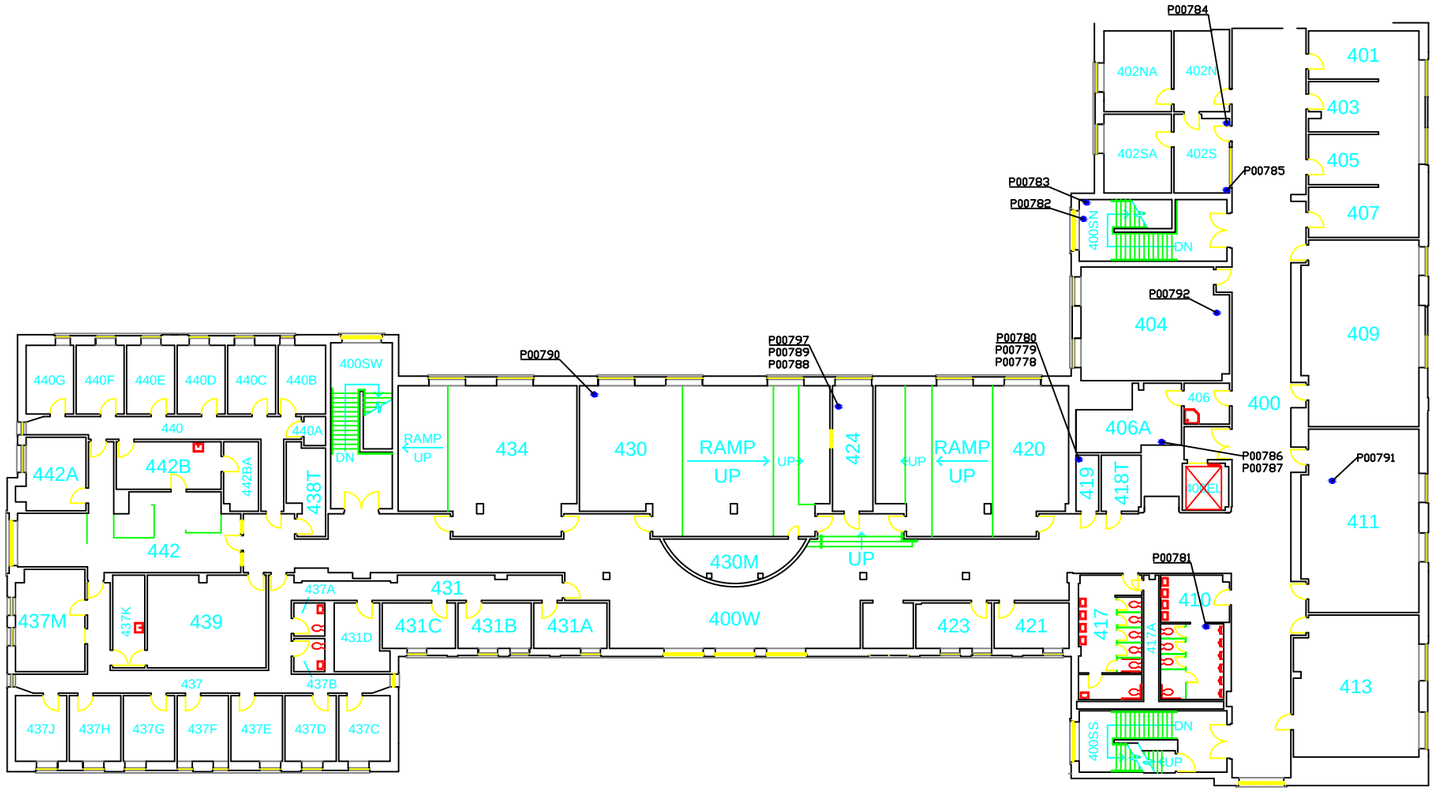
Asbestos Bulk Sample Location

P00###

Third Floor Plan

GROSS SQUARE FEET 24,524 BLDG. TOTAL: 153,682	Washington State University Environmental Health & Safety	Todd Hall Figure □- Sample Locations	NORTH	WASHINGTON STATE UNIVERSITY	BLDG. NO. 55 FIGURE NO. Figure □

T□□□ A□□□T□□□
55A □□



Legend

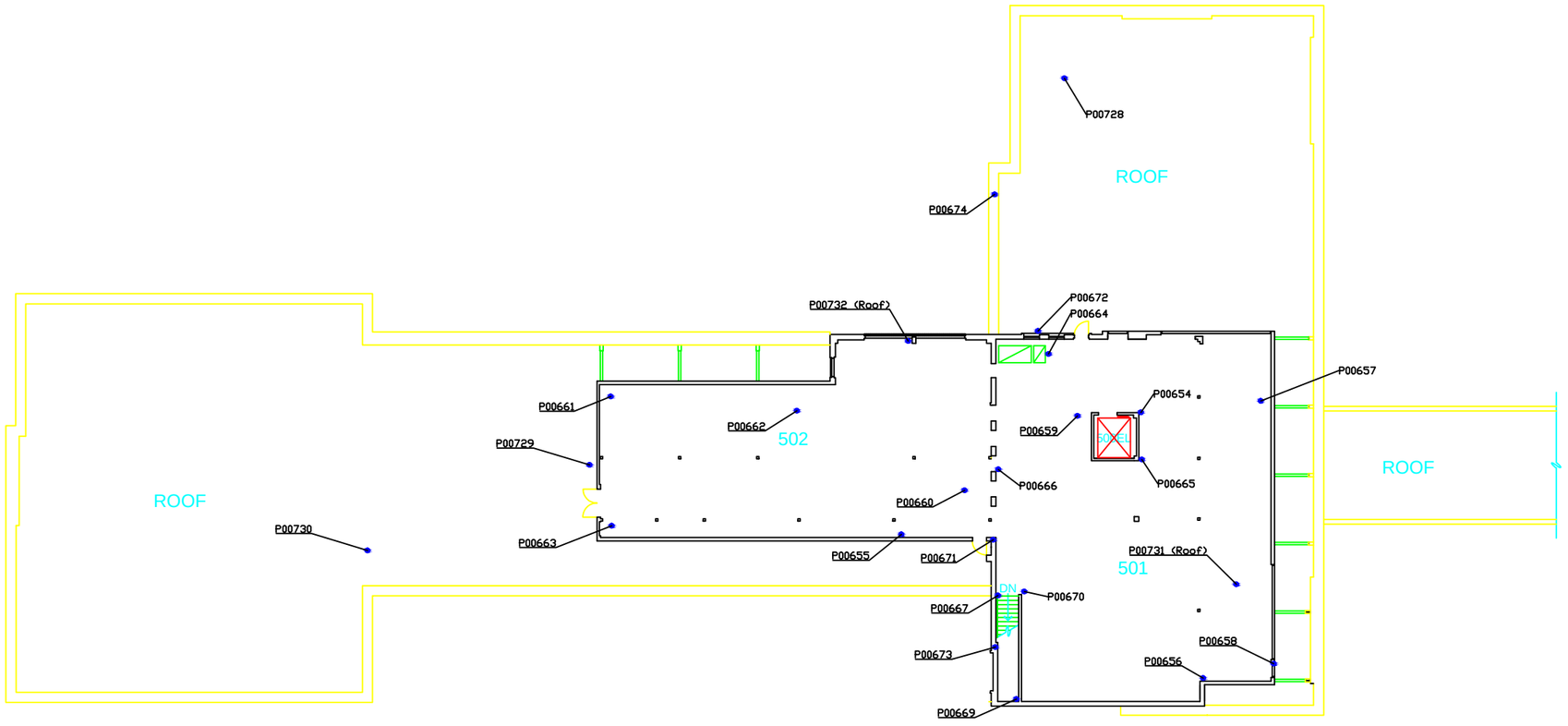
Asbestos Bulk Sample Location

P00###

Fourth Floor Plan

GROSS SQUARE FEET					
24,254	Washington State University Environmental Health & Safety	Todd Hall Figure 5- Sample Locations	NORTH	WASHINGTON STATE UNIVERSITY	BLDG. NO. 55 FIGURE NO. Figure 5
BLDG. TOTAL: 153,682					

T□□□ A□□□T□□□
55A □5



Mechanical Penthouse □oof Floor Plan

GROSS SQUARE FEET					
8,036	Washington State University Environmental Health & Safety	Todd Hall Figure 6- Sample Locations	NORTH	WASHINGTON STATE UNIVERSITY	BLDG. NO. 55
BLDG. TOTAL: 153,682					FIGURE NO. Figure 6

TABLES

TABLE 1
SUMMARY OF ASBESTOS SAMPLING AND ANALYTICAL RESULTS
TODD HALL

Sample #	Building Name	Building #	Sample Location	Material	Material Description/color	Type	Location Quantity	Quantity Descriptor	Comments	Sample Results	ACM?	Homogenous Material Location
P00654	Todd Hall	0055	501	Gypsum wallboard system	Gypsum wallboard/joint compound system	Misc	800	SF	Sample 1 of 3	NAD	No	Mechanical penthouse room 501 and 502
P00655	Todd Hall	0055	501	Gypsum wallboard system	Gypsum wallboard/joint compound system	Misc	800	SF	Sample 2 of 3	NAD	No	Mechanical penthouse room 501 and 502
P00656	Todd Hall	0055	501	Gypsum wallboard system	Gypsum wallboard/joint compound system	Misc	800	SF	Sample 3 of 3	NAD	No	Mechanical penthouse room 501 and 502
P00657	Todd Hall	0055	501	Spray-applied fireproofing	Gray spray-applied fireproofing	Surf	270,000	SF	Sample 1 of 23	NAD	No	Throughout Todd Hall
P00658	Todd Hall	0055	501	Spray-applied fireproofing	Gray spray-applied fireproofing	Surf	270,000	SF	Sample 2 of 23	NAD	No	Throughout Todd Hall
P00659	Todd Hall	0055	502	Spray-applied fireproofing	Gray spray-applied fireproofing	Surf	270,000	SF	Sample 3 of 23	NAD	No	Throughout Todd Hall
P00660	Todd Hall	0055	502	Spray-applied fireproofing	Gray spray-applied fireproofing	Surf	270,000	SF	Sample 4 of 23	NAD	No	Throughout Todd Hall
P00661	Todd Hall	0055	501	Spray-applied fireproofing	Gray spray-applied fireproofing	Surf	270,000	SF	Sample 5 of 23	NAD	No	Throughout Todd Hall
P00662	Todd Hall	0055	501	Spray-applied fireproofing	Gray spray-applied fireproofing	Surf	270,000	SF	Sample 6 of 23	NAD	No	Throughout Todd Hall
P00663	Todd Hall	0055	501	Spray-applied fireproofing	Gray spray-applied fireproofing	Surf	270,000	SF	Sample 7 of 23	NAD	No	Throughout Todd Hall
P00664	Todd Hall	0055	501	Duct seam sealant	Green duct seam mastic	Misc	80	LF	Sample 1 of 2	NAD	No	Mechanical penthouse room 501 and 502

Sample #	Building Name	Building #	Sample Location	Material	Material Description/color	Type	Location Quantity	Quantity Descriptor	Comments	Sample Results	ACM?	Homogenous Material Location
P00665	Todd Hall	0055	501	Duct seam sealant	Green duct seam mastic	Misc	80	LF	Sample 2 of 2	NAD	No	Mechanical penthouse room 501 and 502
P00666	Todd Hall	0055	501	Window putty	White window putty (interior side)	Misc	60	LF	Sample 1 of 1	NAD	No	Original windows in 501 and 502
P00667	Todd Hall	0055	501	Plaster wall	Plaster/skim coat	Surf	3,000	SF	Sample 1 of 7	NAD	No	Isolated remnants on concrete walls and columns throughout Todd Hall
P00668	Todd Hall	0055	501	Plaster wall	Plaster/skim coat	Surf	3,000	SF	Sample 2 of 7	NAD	No	Isolated remnants on concrete walls and columns throughout Todd Hall
P00669	Todd Hall	0055	501	Plaster wall	Plaster/skim coat	Surf	3,000	SF	Sample 3 of 7	NAD	No	Isolated remnants on concrete walls and columns throughout Todd Hall
P00670	Todd Hall	0055	501	Floor coating	Red poured floor coating	Misc	2,500	SF	Sample 1 of 1	NAD	No	Mechanical penthouse room 501 and 502
P00671	Todd Hall	0055	501	Brick wall	Red brick and mortar	Misc	30,000	SF	Sample 1 of 1	NAD	No	Throughout Todd Hall exterior
P00672	Todd Hall	0055	501	Window putty	Exterior white window putty	Misc	3	EA (windows)	Sample 1 of 1	3% CHR	Yes	Original windows in 501 and 502
P00673	Todd Hall	0055	501	Ceramic tile	Orange ceramic tile with gray grout	Misc	5	SF	Sample 1 of 1	NAD	No	Mechanical penthouse room 501
P00674	Todd Hall	0055	North roof	Capstone joint packing	Capstone mortar and joint packing	Misc	250	LF	Sample 1 of 1	3% CHR	Yes	Underneath lead joint packing on roof capstones
P00675	Todd Hall	0055	30	Terra cotta	Red terra cotta and mortar	Misc	400	SF	Sample 1 of 1	NAD	No	Basement room 30
P00676	Todd Hall	0055	10	Pipe insulation	18" O.D. Hard pipe insulation	TSI	120	LF	Sample 1 of 3	NAD	No	Basement rooms 10 and 30
P00677	Todd Hall	0055	10	Sound dampening board	Sound dampening fiberboard with asphaltic mastic	Misc	80	SF	Sample 1 of 1	NAD	No	Basement room 30
P00678	Todd Hall	0055	30T	Wallboard system	Gypsum wallboard and joint compound	Misc	600	SF	Sample 1 of 3	NAD	No	Unifinished wallboard system in basement
P00679	Todd Hall	0055	20SB	Pipe insulation	18" O.D. Hard pipe insulation	TSI	120	LF	Sample 2 of 3	NAD	No	Basement

Sample #	Building Name	Building #	Sample Location	Material	Material Description/color	Type	Location Quantity	Quantity Descriptor	Comments	Sample Results	ACM?	Homogenous Material Location
P00680	Todd Hall	0055	20SB	Wallboard system	Gypsum wallboard and joint compound	Misc	600	SF	Sample 2 of 3	NAD	No	Unifinished wallboard system in basement
P00681	Todd Hall	0055	12	Wallboard system	Gypsum wallboard and joint compound	Misc	600	SF	Sample 3 of 3	NAD	No	Unifinished wallboard system in basement
P00682	Todd Hall	0055	10	Pipe insulation	18" O.D. Hard pipe insulation	TSI	120	LF	Sample 3 of 3	NAD	No	Basement rooms 10 and 30
P00683	Todd Hall	0055	20SB	Spray-applied fireproofing	Gray spray-applied fireproofing	Surf	270,000	SF	Sample 8 of 23	NAD	No	Throughout Todd Hall
P00684	Todd Hall	0055	30	Spray-applied fireproofing	Gray spray-applied fireproofing	Surf	270,000	SF	Sample 9 of 23	NAD	No	Throughout Todd Hall
P00685	Todd Hall	0055	10D	Spray-applied fireproofing	Gray spray-applied fireproofing	Surf	270,000	SF	Sample 10 of 23	NAD	No	Throughout Todd Hall
P00686	Todd Hall	0055	10	Spray-applied fireproofing	Gray spray-applied fireproofing	Surf	270,000	SF	Sample 11 of 23	NAD	No	Throughout Todd Hall
P00687	Todd Hall	0055	10	Spray-applied fireproofing	Gray spray-applied fireproofing	Surf	270,000	SF	Sample 12 of 23	NAD	No	Throughout Todd Hall
P00688	Todd Hall	0055	40	Spray-applied fireproofing	Gray spray-applied fireproofing	Surf	270,000	SF	Sample 13 of 23	NAD	No	Throughout Todd Hall
P00689	Todd Hall	0055	40	Spray-applied fireproofing	Gray spray-applied fireproofing	Surf	270,000	SF	Sample 14 of 23	NAD	No	Throughout Todd Hall
P00713	Todd Hall	0055	104A	Gypsum wallboard system	Texture coat on gypsum wallboard system	Surf	250,000	SF	Sample 1 of 16	NAD	No	Throughout 1st through 4th floors of Todd Hall
P00714	Todd Hall	0055	104A	5" Vinyl cove base	Gray vinyl cove base with yellow mastic	Misc	700	SF	Sample 1 of 8	NAD	No	Throughout 1st through 4th floors of Todd Hall
P00715	Todd Hall	0055	104A	Fiberglass backsplash	Yellow mastic under white fiberglass backsplash	Misc	200	SF	Sample 1 of 1	NAD	No	Custodial closets throughout Todd Hall

Sample #	Building Name	Building #	Sample Location	Material	Material Description/color	Type	Location Quantity	Quantity Descriptor	Comments	Sample Results	ACM?	Homogenous Material Location
P00716	Todd Hall	0055	104	12" Vinyl floor tile	Gray and white mottled pattern vinyl floor tile with yellow mastic and leveling compound	Misc	37,000	EA	Sample 1 of 7	NAD	No	Offices and classrooms throughout Todd Hall
P00717	Todd Hall	0055	104	Plaster wall	Remnant plaster/skim coat on original wall system	Surf	3,000	SF	Sample 4 of 7	NAD	No	Isolated remnants on concrete walls and columns throughout Todd Hall
P00718	Todd Hall	0055	104	4" Ceramic wall tile	Green ceramic tile (painted white) with white grout	Misc	80	SF	Sample 1 of 1	NAD	No	Room 104
P00719	Todd Hall	0055	119	Terrazzo floor	Green terrazzo flooring	Misc	110,000	SF	Sample 1 of 3	NAD	No	Original flooring system throughout Todd Hall (under various newer flooring systems)
P00720	Todd Hall	0055	219	Plaster wall	Remnant plaster/skim coat on original wall system	Surf	3000	SF	Sample 5 of 7	NAD	No	Isolated remnants on concrete walls and columns throughout Todd Hall
P00721	Todd Hall	0055	219	12" Vinyl floor tile	Gray and white mottled pattern vinyl floor tile with yellow mastic and red fire stop	Misc	37,000	SF	Sample 2 of 7	NAD	No	Offices and classrooms throughout Todd Hall
P00722	Todd Hall	0055	219	Gypsum wallboard system	Gypsum wallboard and joint compound (unfinished portion)	Misc	250,000	SF	Sample 2 of 16	NAD	No	Throughout 1st through 4th floors of Todd Hall
P00723	Todd Hall	0055	206	Gypsum wallboard system	Texture coat on gypsum wallboard system	Surf	250,000	SF	Sample 3 of 16	NAD	No	Throughout 1st through 4th floors of Todd Hall

Sample #	Building Name	Building #	Sample Location	Material	Material Description/color	Type	Location Quantity	Quantity Descriptor	Comments	Sample Results	ACM?	Homogenous Material Location
P00724	Todd Hall	0055	216A	12" Vinyl floor tile	Gray and white mottled 12" vinyl floor tile with yellow mastic	Misc	37,000	SF	Sample 3 of 7	NAD	No	Offices and classrooms throughout Todd Hall
P00725	Todd Hall	0055	216A	Gypsum wallboard system	Texture coat on gypsum wallboard system	Surf	250,000	SF	Sample 4 of 16	NAD	No	Throughout 1st through 4th floors of Todd Hall
P00726	Todd Hall	0055	216A	2'x2' Suspended ceiling tile	White suspended ceiling tile with random pinholes	Misc	110,000	SF	Sample 1 of 5	NAD	No	Throughout 1st through 4th floors of Todd Hall
P00727	Todd Hall	0055	200W	Gypsum wallboard system	Texture coat on gypsum wallboard system	Surf	200,000	SF	Sample 5 of 16	NAD	No	Throughout 1st through 4th floors of Todd Hall
P00728	Todd Hall	0055	Roof	Roof core	Silver coating on rolled on roofing felts with tar over insulation board	Misc	32,000	SF	Sample 1 of 5	NAD	No	5th floor and mechanical penthouse level roofs
P00729	Todd Hall	0055	Roof	Roof flashing	Silver coating on rolled on roofing felts with tar over insulation board	Misc	32,000	SF	Sample 2 of 5	NAD	No	5th floor and mechanical penthouse level roofs
P00730	Todd Hall	0055	Roof	Roof core	Silver coating on rolled on roofing felts with tar over insulation board	Misc	32,000	SF	Sample 3 of 5	NAD	No	5th floor and mechanical penthouse level roofs
P00731	Todd Hall	0055	Roof	Roof core	Silver coating on rolled on roofing felts with tar over insulation board	Misc	32,000	SF	Sample 4 of 5	NAD	No	5th floor and mechanical penthouse level roofs
P00732	Todd Hall	0055	Roof	Roof flashing	Silver coating on rolled on roofing felts with tar over insulation board	Misc	32,000	SF	Sample 5 of 5	NAD	No	5th floor and mechanical penthouse level roofs
P00742	Todd Hall	0055	101	5" Vinyl cove base	Gray vinyl cove base with yellow mastic	Misc	700	SF	Sample 2 of 8	NAD	No	Throughout 1st through 4th floors of Todd Hall
P00743	Todd Hall	0055	101	Vinyl flooring	18" Tan vinyl flooring squares	Misc	600	SF	Sample 1 of 1	NAD	No	Room 101

Sample #	Building Name	Building #	Sample Location	Material	Material Description/color	Type	Location Quantity	Quantity Descriptor	Comments	Sample Results	ACM?	Homogenous Material Location
P00744	Todd Hall	0055	101	Gypsum wallboard system	Texture coat on gypsum wallboard system	Surf	250,000	SF	Sample 6 of 16	NAD	No	Throughout 1st through 4th floors of Todd Hall
P00745	Todd Hall	0055	100	Ceramic tile	Red 4" ceramic floor tile with gray thinset	Misc	8,000	SF	Sample 2 of 2	NAD	No	Corridors throughout 1st through 4th floors of Todd Hall
P00746	Todd Hall	0055	110	Gypsum wallboard system	Unfinished gypsum wallboard	Misc	1,400	SF	Sample 1 of 1	NAD	No	Restroom wet walls
P00747	Todd Hall	0055	110	Terrazzo floor	Pink terrazzo flooring	Misc	110,000	SF	Sample 2 of 3	NAD	No	Original flooring system throughout Todd Hall (under various newer flooring systems)
P00748	Todd Hall	0055	113	5" Vinyl cove base	Gray vinyl cove base with yellow mastic	Misc	700	SF	Sample 3 of 8	NAD	No	Throughout 1st through 4th floors of Todd Hall
P00749	Todd Hall	0055	113	12" Vinyl floor tile	Gray and white mottled 12" vinyl floor tile with yellow mastic	Misc	37,000	SF	Sample 4 of 7	NAD	No	Offices and classrooms throughout Todd Hall
P00750	Todd Hall	0055	133B	12" Vinyl floor tile	Gray and white mottled 12" vinyl floor tile with yellow mastic	Misc	37,000	SF	Sample 5 of 7	NAD	No	Offices and classrooms throughout Todd Hall
P00751	Todd Hall	0055	133	5" Vinyl cove base	Gray vinyl cove base with yellow mastic	Misc	700	SF	Sample 4 of 8	NAD	No	Throughout 1st through 4th floors of Todd Hall
P00752	Todd Hall	0055	121	Vinyl flooring	18" Orange vinyl flooring squares	Misc	600	SF	Sample 1 of 1	NAD	No	Room 121
P00753	Todd Hall	0055	116V	Carpet mastic	Blue and yellow carpet mastic	Misc	500	SF	Sample 1 of 1	NAD	No	Rooms 100VW, 116V and 122
P00754	Todd Hall	0055	124	Duct seam sealant	Gray duct sealant	Misc	4,000	LF	Sample 1 of 1	NAD	No	Isolated remnants on concrete walls and columns throughout Todd Hall
P00755	Todd Hall	0055	122	Ceramic tile	Gray mortar/thinset under 2" white ceramic tiles	Misc	300	SF	Sample 1 of 2	NAD	No	Stairwell window sills and rooms 121, 122, 126 and 127

Sample #	Building Name	Building #	Sample Location	Material	Material Description/color	Type	Location Quantity	Quantity Descriptor	Comments	Sample Results	ACM?	Homogenous Material Location
P00756	Todd Hall	0055	121	Gypsum wallboard system	Texture coat on gypsum wallboard system	Surf	250,000	SF	Sample 6 of 15	NAD	No	Throughout 1st through 4th floors of Todd Hall
P00757	Todd Hall	0055	101	Suspended ceiling tile	2'x2' White suspended ceiling tile with vinyl texture	Misc	1,000	SF	Sample 1 of 3	NAD	No	Rooms 101(series) and 105
P00758	Todd Hall	0055	105	Suspended ceiling tile	2'x2' White suspended ceiling tile with vinyl texture	Misc	1,000	SF	Sample 2 of 3	NAD	No	Rooms 101(series) and 105
P00759	Todd Hall	0055	109	Suspended ceiling tile	2'x2' White suspended ceiling tile with vinyl texture	Misc	1,000	SF	Sample 3 of 3	NAD	No	Rooms 101(series) and 105
P00760	Todd Hall	0055	100	Suspended ceiling tile	2'x2' White suspended ceiling tile with random pinhole pattern	Misc	110,000	SF	Sample 2 of 5	NAD	No	Throughout 1st through 4th floors of Todd Hall
P00761	Todd Hall	0055	116	Suspended ceiling tile	2'x2' White suspended ceiling tile with random pinhole pattern	Misc	110,000	SF	Sample 3 of 5	NAD	No	Throughout 1st through 4th floors of Todd Hall
P00762	Todd Hall	0055	130	Suspended ceiling tile	2'x2' White suspended ceiling tile with random pinhole pattern	Misc	110,000	SF	Sample 4 of 5	NAD	No	Throughout 1st through 4th floors of Todd Hall
P00763	Todd Hall	0055	116	Gypsum wallboard system	Texture coat on gypsum wallboard system	Surf	250,000	SF	Sample 8 of 16	NAD	No	Throughout 1st through 4th floors of Todd Hall
P00764	Todd Hall	0055	124	Gypsum wallboard system	Texture coat on gypsum wallboard system	Surf	250,000	SF	Sample 9 of 16	NAD	No	Throughout 1st through 4th floors of Todd Hall
P00765	Todd Hall	0055	120	Gypsum wallboard system	Texture coat on gypsum wallboard system	Surf	250,000	SF	Sample 10 of 16	NAD	No	Throughout 1st through 4th floors of Todd Hall

Sample #	Building Name	Building #	Sample Location	Material	Material Description/color	Type	Location Quantity	Quantity Descriptor	Comments	Sample Results	ACM?	Homogenous Material Location
P00766	Todd Hall	0055	200	Ceramic tile	Gray thinset/grout under 4" red ceramic floor tile	Misc	8,000	SF	Sample 2 of 2	NAD	No	Corridors throughout 1st through 4th floors of Todd Hall
P00767	Todd Hall	0055	242C	Sink undercoat	Gray sink undercoat	Misc	6	EA	Sample 1 of 1	NAD	No	Rooms 101J, 242C, 342B, 342C, 437K, 442B
P00768	Todd Hall	0055	240A	12" Vinyl floor tile	Gray and white mottled 12" vinyl floor tile with yellow mastic	Misc	37,000	SF	Sample 6 of 7	NAD	No	Offices and classrooms throughout Todd Hall
P00769	Todd Hall	0055	237	5" Vinyl cove base	Gray vinyl cove base with white mastic	Misc	700	SF	Sample 5 of 8	NAD	No	Throughout 1st through 4th floors of Todd Hall
P00770	Todd Hall	0055	216	5" Vinyl cove base	Gray vinyl cove base with white mastic	Misc	700	SF	Sample 6 of 8	NAD	No	Throughout 1st through 4th floors of Todd Hall
P00771	Todd Hall	0055	200	Suspended ceiling tile	2'x2' White suspended ceiling tile with random pinhole pattern	Misc	110,000	SF	Sample 5 of 5	NAD	No	Throughout 1st through 4th floors of Todd Hall
P00772	Todd Hall	0055	242C	Gypsum wallboard system	Texture coat on gypsum wallboard system	Surf	250,000	SF	Sample 11 of 16	NAD	No	Throughout 1st through 4th floors of Todd Hall
P00773	Todd Hall	0055	230	Gypsum wallboard system	Texture coat on gypsum wallboard system	Surf	250,000	SF	Sample 12 of 16	NAD	No	Throughout 1st through 4th floors of Todd Hall
P00774	Todd Hall	0055	228	Spray-applied fireproofing	Gray spray-applied fireproofing	Surf	270,000	SF	Sample 15 of 23	NAD	No	Throughout Todd Hall
P00775	Todd Hall	0055	217A	Spray-applied fireproofing	Gray spray-applied fireproofing	Surf	270,000	SF	Sample 16 of 23	NAD	No	Throughout Todd Hall
P00776	Todd Hall	0055	200	Spray-applied fireproofing	Gray spray-applied fireproofing	Surf	270,000	SF	Sample 17 of 23	NAD	No	Throughout Todd Hall
P00777	Todd Hall	0055	110	Spray-applied fireproofing	Gray spray-applied fireproofing	Surf	270,000	SF	Sample 18 of 23	NAD	No	Throughout Todd Hall

Sample #	Building Name	Building #	Sample Location	Material	Material Description/color	Type	Location Quantity	Quantity Descriptor	Comments	Sample Results	ACM?	Homogenous Material Location
P00778	Todd Hall	0055	419	Gypsum wallboard system	Texture coat on gypsum wallboard system	Surf	250,000	SF	Sample 13 of 16	NAD	No	Throughout 1st through 4th floors of Todd Hall
P00779	Todd Hall	0055	419	12" Vinyl floor tile	Gray and white mottled 12" vinyl floor tile with yellow mastic	Misc	37,000	SF	Sample 7 of 7	NAD	No	Offices and classrooms throughout Todd Hall
P00780	Todd Hall	0055	419	Plaster wall	Remnant plaster/skim coat on original wall system	Surf	3,000	SF	Sample 6 of 7	NAD	No	Isolated remnants on concrete walls and columns throughout Todd Hall
P00781	Todd Hall	0055	410	Ceramic tile	Orange grout under 3"x8" orange ceramic wall tiles	Misc	1,800	SF	Sample 1 of 1	NAD	No	Restrooms throughout Todd Hall
P00782	Todd Hall	0055	400SN	Ceramic tile	Gray grout under 2" white ceramic window sill tile	Misc	300	SF	Sample 2 of 2	NAD	No	Rooms 121, 122, 126, 127 and window sills throughout stairwells of Todd Hall
P00783	Todd Hall	0055	400SN	5" Vinyl cove base	Gray vinyl cove base with white mastic	Misc	700	SF	Sample 7 of 8	NAD	No	Throughout 1st through 4th floors of Todd Hall
P00784	Todd Hall	0055	402S	Carpet mastic	Green/yellow carpet mastic	Misc	1,200	SF	Sample 1 of 1	NAD	No	Rooms 402S, 402SA, 402N, 402NA
P00785	Todd Hall	0055	402S	5" Vinyl cove base	Gray vinyl cove base with white mastic	Misc	700	SF	Sample 8 of 8	NAD	No	Throughout 1st through 4th floors of Todd Hall
P00786	Todd Hall	0055	406A	Plaster wall	Remnant plaster/skim coat on original wall system	Surf	3,000	SF	Sample 7 of 7	NAD	No	Isolated remnants on concrete walls and columns throughout Todd Hall
P00787	Todd Hall	0055	406A	Terrazzo floor	Green terrazzo flooring	Misc	110,000	SF	Sample 3 of 3	NAD	No	Original flooring system throughout Todd Hall (under various newer flooring systems)
P00788	Todd Hall	0055	424	Duct tape	White duct tape on 8" round ducting	Misc	400	LF	Sample 1 of 1	NAD	No	Throughout round ducts in ceiling spaces
P00789	Todd Hall	0055	424	Duct seam sealant	Gray duct sealant	Misc	4,000	LF	Sample 2 of 2	NAD	No	Throughout ducts in ceiling spaces

Sample #	Building Name	Building #	Sample Location	Material	Material Description/color	Type	Location Quantity	Quantity Descriptor	Comments	Sample Results	ACM?	Homogenous Material Location
P00790	Todd Hall	0055	430	Spray-applied fireproofing	Gray spray-applied fireproofing	Surf	270,000	SF	Sample 19 of 23	NAD	No	Throughout Todd Hall
P00791	Todd Hall	0055	411	Spray-applied fireproofing	Gray spray-applied fireproofing	Surf	270,000	SF	Sample 20 of 23	NAD	No	Throughout Todd Hall
P00792	Todd Hall	0055	404	Spray-applied fireproofing	Gray spray-applied fireproofing	Surf	270,000	SF	Sample 21 of 23	NAD	No	Throughout Todd Hall
P00793	Todd Hall	0055	311	Spray-applied fireproofing	Gray spray-applied fireproofing	Surf	270,000	SF	Sample 22 of 23	NAD	No	Throughout Todd Hall
P00794	Todd Hall	0055	306A	Spray-applied fireproofing	Gray spray-applied fireproofing	Surf	270,000	SF	Sample 23 of 23	NAD	No	Throughout Todd Hall
P00795	Todd Hall	0055	300W	Gypsum wallboard system	Texture coat on gypsum wallboard system	Surf	250,000	SF	Sample 14 of 16	NAD	No	Throughout 1st through 4th floors of Todd Hall
P00796	Todd Hall	0055	342B	Gypsum wallboard system	Texture coat on gypsum wallboard system	Surf	250,000	SF	Sample 15 of 16	NAD	No	Throughout 1st through 4th floors of Todd Hall
P00797	Todd Hall	0055	424	Gypsum wallboard system	Texture coat on gypsum wallboard system	Surf	250,000	SF	Sample 16 of 16	NAD	No	Throughout 1st through 4th floors of Todd Hall

Notes:

CHR = Chrysotile Asbestos
NAD = No Asbestos Detected
SF = Square Foot
EA = Each
LF = Linear Feet
Surf. = Surfacing Material
TSI = Thermal Systems Insulation
Misc = Miscellaneous Material

TABLE 2
SUMMARY OF LEAD PAINT SAMPLING
TODD HALL

Reading #	Building Name	Building #	Sample Location (Room #)	Paint Color	Substrate	Component	Result (mg/cm^2)	Error (mg/cm^2)	Lead-Containing
01	Todd Hall	0055	12	Gray	GWB	Wall	< LOD	0.03	No
02	Todd Hall	0055	30T	Gray	GWB	Wall	< LOD	0.03	No
03	Todd Hall	0055	10SS	White	GWB	Wall	< LOD	0.03	No
04	**Todd Hall**	**0055**	**10SS**	**Gray**	**Concrete**	**Stair**	**0.13**	**0.02**	**Yes**
05	**Todd Hall**	**0055**	**10SS**	**Red**	**Metal**	**Door Frame**	**0.7**	**0.1**	**Yes**
06	Todd Hall	0055	104	White	GWB	Wall	< LOD	0.03	No
07	Todd Hall	0055	104	Gray	Metal	Door Frame	< LOD	0.03	No
08	Todd Hall	0055	100SN	Red	Metal	Door Frame	< LOD	0.05	No
09	**Todd Hall**	**0055**	**100**	**Red**	**Ceramic**	**Floor tile**	**0.05**	**0.02**	**Yes**
10	Todd Hall	0055	101	Red	GWB	Wall	< LOD	0.03	No
11	Todd Hall	0055	101	Beige	GWB	Wall	< LOD	0.03	No
12	Todd Hall	0055	101	Dark Gray	GWB	Wall	< LOD	0.03	No
13	Todd Hall	0055	108	Red	GWB	Wall	< LOD	0.03	No
14	Todd Hall	0055	121	Green	GWB	Wall	< LOD	0.03	No
15	Todd Hall	0055	116	White	GWB	Wall	< LOD	0.03	No
16	Todd Hall	0055	130	White	GWB	Wall	< LOD	0.03	No
17	Todd Hall	0055	216	White	GWB	Wall	< LOD	0.03	No
18	Todd Hall	0055	200SN	White	Ceramic	Window Sill	< LOD	0.03	No
19	Todd Hall	0055	200	Red	Metal	Door Frame	< LOD	0.03	No
20	Todd Hall	0055	220	White	GWB	Wall	< LOD	0.03	No
21	Todd Hall	0055	225	White	GWB	Wall	< LOD	0.03	No
22	Todd Hall	0055	228	White	GWB	Wall	< LOD	0.03	No
23	Todd Hall	0055	237	White	GWB	Wall	< LOD	0.03	No
24	Todd Hall	0055	310	Orange	Ceramic	Wall Tile	< LOD	0.03	No
25	Todd Hall	0055	339	White	GWB	Wall	< LOD	0.03	No
26	Todd Hall	0055	342	White	GWB	Wall	< LOD	0.03	No
27	Todd Hall	0055	330	White	GWB	Wall	< LOD	0.03	No
28	Todd Hall	0055	410	Orange	Ceramic	Wall Tile	< LOD	0.03	No
29	Todd Hall	0055	400	White	GWB	Wall	< LOD	0.03	No
30	Todd Hall	0055	411	White	GWB	Wall	< LOD	0.03	No

Reading #	Building Name	Building #	Sample Location (Room #)	Paint Color	Substrate	Component	Result (mg/cm^2)	Error (mg/cm^2)	Lead-Containing
31	Todd Hall	0055	437	White	GWB	Wall	< LOD	0.03	No
32	**Todd Hall**	**0055**	**501**	**Green**	**Plaster**	**Wall**	**0.05**	**0.02**	**Yes**
33	Todd Hall	0055	501	White	GWB	Wall	< LOD	0.03	No
34	Todd Hall	0055	Roof	Silver	Roofing	Roof	< LOD	0.03	No

Notes:

a) All results are reported in milligrams per cubic centimeter (mg/cm^2) by a x-ray fluorescence (XRF) analysis.
b) **Bold** type indicates samples that contain lead
c) GWB = Gypsum wallboard
d) < LOD = Below limit of detection of XRF method.

TABLE 3
SUMMARY OF HOMOGENEOUS AREAS

HSA	Sample #'s	Homogenous Material Description	Location(s)
1	P00654	Partially unfinished gypsum wallboard/joint compound system	Mechanical penthouse rooms 501 and 502
	P00655		
	P00656		
2	P00657	Gray spray-applied fireproofing on concrete decking, structural columns and beams	Throughout Todd Hall
	P00658		
	P00659		
	P00660		
	P00661		
	P00662		
	P00663		
	P00683		
	P00684		
	P00685		
	P00686		
	P00687		
	P00688		
	P00689		
	P00774		
	P00775		
	P00776		
	P00777		
	P00790		
	P00791		
	P00792		
	P00793		
	P00794		
3	P00664	Green duct seam mastic	Mechanical penthouse rooms 501 and 502
	P00665		
4	P00666	White window putty (interior side of window)	Original windows in mechanical penthouse rooms 501 and 502
5	P00667	Original plaster wall system with skim coat	Isolated remnants throughout Todd Hall
	P00668		
	P00669		
	P00717		
	P00720		
	P00780		
	P00786		
6	P00670	Red epoxy poured flooring	Mechanical rooms 501 and 502
7	P00671	Red brick and mortar	Throughout Todd Hall exterior
8	P00672	White window putty (exterior side of window)	Original windows in mechanical penthouse rooms 501 and 502
9	P00673	Orange ceramic tile with gray grout	Mechanical room 501 window sill
10	P00675	Red terra cotta and gray mortar	Basement room 30
11	P00676	18" O.D. Hard pipe insulation	Basement rooms 10 and 30
	P00679		
	P00682		

12	P00677	Sound dampening fiberboard with asphaltic mastic	Basement room 30
HSA	**Sample #'s**	**Homogenous Material Description**	**Location(s)**
13	P00678 P00680 P00681	Unfinished gypsum wallboard/joint compound system	Basement rooms 12, 30T and 30
14	P00713 P00722 P00723 P00725 P00727 P00744 P00756 P00763 P00764 P00765 P00772 P00773 P00778 P00795 P00796 P00797	Gypsum wallboard/joint compound system with texture coat (surfacing)	Throughout 1st through 4th floors of Todd Hall
15	P00714 P00742 P00748 P00751 P00769 P00770 P00783 P00785	5" Gray vinyl cove base with yellow and white mastic	Throughout 1st through 4th floors of Todd Hall
16	P00715	Yellow mastic under white fiberglass backsplash/mopboard	Custodial closets throughout Todd Hall
17	P00716 P00721 P00724 P00749 P00750 P00768 P00779	12" Gray and white mottled pattern vinyl floor tile with yellow mastic	Dominate floor tile throughout offices and classrooms of Todd Hall
18	P00718	Green ceramic tile (painted white) with white grout	Room 104
19	P00719 P00747 P00787	Terrazzo flooring (green and pink)	Original flooring system throughout Todd Hall (under various newer flooring systems)
20	P00726 P00760 P00761 P00762 P00771	White 2'x2' suspended ceiling tile with random pinholes	Dominate ceiling tile throughout Todd Hall

HSA	Sample #'s	Homogenous Material Description	Location(s)
21	P00729 P00730 P00731 P00732 P00733	Roofing field and flashing: Silver coating on rolled-on torch down roofing felts with tar over foam insulation board	4th floor roofing systems
22	P00743	18" Tan vinyl flooring squares with clear mastic	Room 101
23	P00745 P00766	Red 4" ceramic floor tile with gray thinset	Corridors throughout 1st through 4th floors of Todd Hall
24	P00746	Unfinished gypsum wallboard in wet-wall system	Wallboard surrounding restrooms throughout Todd Hall
25	P00752	18" Orange vinyl flooring squares	Room 121
26	P00753	Blue and yellow carpet mastic under multi-colored gray carpet	Rooms 100VW, 116V and 122
27	P00788	White duct tape on 8" round ducting	Throughout ceiling spaces of Todd Hall
28	P00754 P00789	Gray duct sealant	Throughout ceiling spaces of Todd Hall
29	P00755 P00782	Gray mortar/thinset under 2" white ceramic tiles	Rooms 121, 122, 126, 127 and window sills throughout stairwells of Todd Hall
30	P00757 P00758 P00759	White 2'x2' suspended ceiling tile with vinyl texture	Room 101
31	P00767	Gray sink undercoat	Rooms 101J, 242C, 342B, 342C, 437K, 442B
32	P00781	Orange 3"x8" ceramic tile grout	Restrooms throughout Todd Hall
33	P00784	Green/yellow carpet mastic	Rooms 402S, 402SA, 402N, 402NA

APPENDIX A

Chain-of-Custody Forms and Laboratory Analytical Results

EHS Laboratories

Environmental Hazards Services, L.L.C.
7469 Whitepine Rd
Richmond, VA 23237
Telephone: 800.347.4010

Asbestos Bulk Analysis Report

Report Number: 13-10-00435

Client: Washington State University - Pullman
P.O. BOX 641172
Pullman, WA 99164

Received Date: 10/03/2013
Analyzed Date: 10/06/2013
Reported Date: 10/07/2013

Project/Test Address: Todd Hall Full Building; Pullman, WA

Client Number: 49-3308

Fax Number: 509-335-4442

Laboratory Results

Lab Sample Number	Client Sample Number	Layer Type	Lab Gross Description	Asbestos	Other Materials
13-10-00435-001	P00654		White Granular; Powder; Tan Fibrous; White Paint-Like; Inhomogeneous	NAD	10% Cellulose 10% Fibrous Glass 80% Non-Fibrous
13-10-00435-002	P00655		White Granular; Powder; White/Tan Fibrous; White Paint-Like; Inhomogeneous	NAD	12% Cellulose 10% Fibrous Glass 78% Non-Fibrous
13-10-00435-003	P00656		White Granular; Powder; White/Tan Fibrous; White Paint-Like; Inhomogeneous	NAD	12% Cellulose 10% Fibrous Glass 78% Non-Fibrous
13-10-00435-004	P00657		Gray Powder; Fibrous; White Foam; Inhomogeneous	NAD	30% Cellulose 70% Non-Fibrous

Environmental Hazards Services, L.L.C

Client Number: 49-3308 Report Number: 13-10-00435

Project/Test Address: Todd Hall Full Building; Pullman, WA

Lab Sample Number	Client Sample Number	Layer Type	Lab Gross Description	Asbestos	Other Materials
13-10-00435-005	P00658		Gray Powder; Fibrous; White Foam; Inhomogeneous	NAD	30% Cellulose 70% Non-Fibrous
13-10-00435-006	P00659		Gray Powder; Fibrous; White Foam; Inhomogeneous	NAD	30% Cellulose 70% Non-Fibrous
13-10-00435-007	P00660		Gray Powder; Fibrous; White Foam; Inhomogeneous	NAD	30% Cellulose 70% Non-Fibrous
13-10-00435-008	P00661		Gray Powder; Fibrous; White Foam; Inhomogeneous	NAD	30% Cellulose 70% Non-Fibrous
13-10-00435-009	P00662		Gray Powder; Fibrous; White Foam; Inhomogeneous	NAD	30% Cellulose 70% Non-Fibrous
13-10-00435-010	P00663		Gray Powder; Fibrous; White Foam; Inhomogeneous	NAD	30% Cellulose 70% Non-Fibrous
13-10-00435-011	P00664		Gray Rubbery; Homogeneous	NAD	100% Non-Fibrous

Environmental Hazards Services, L.L.C

Client Number: 49-3308 Report Number: 13-10-00435

Project/Test Address: Todd Hall Full Building; Pullman, WA

Lab Sample Number	Client Sample Number	Layer Type	Lab Gross Description	Asbestos	Other Materials
13-10-00435-012	P00665		Gray Rubbery; Homogeneous	NAD	100% Non-Fibrous
13-10-00435-013	P00666		Gray Brittle; White Paint-Like; Inhomogeneous	NAD	100% Non-Fibrous
13-10-00435-014	P00667		White/Gray Granular; Green Paint-Like; Inhomogeneous	NAD	100% Non-Fibrous
13-10-00435-015	P00668		White/Gray Granular; Green Paint-Like; Inhomogeneous	NAD	1% Hair 99% Non-Fibrous
13-10-00435-016	P00669		White/Gray Granular; Green Paint-Like; Inhomogeneous	NAD	1% Hair 99% Non-Fibrous
13-10-00435-017	P00670		Dark Gray Granular; Red Paint-Like; Inhomogeneous	NAD	100% Non-Fibrous
13-10-00435-018A	P00671	Brick	Red Cementitious; Homogeneous	NAD	100% Non-Fibrous

Environmental Hazards Services, L.L.C

Client Number: 49-3308 Report Number: 13-10-00435

Project/Test Address: Todd Hall Full Building; Pullman, WA

Lab Sample Number	Client Sample Number	Layer Type	Lab Gross Description	Asbestos	Other Materials
13-10-00435-018B	P00671	Mortar	Gray Granular; Homogeneous	NAD	100% Non-Fibrous
13-10-00435-019	P00672		Off-White Brittle; Homogeneous	3% Chrysotile	97% Non-Fibrous
			Total Asbestos:	3%	
13-10-00435-020	P00673		Gray Granular; Homogeneous	NAD	100% Non-Fibrous
13-10-00435-021A	P00674	Mortar	Gray Cementitious; Homogeneous	NAD	100% Non-Fibrous
13-10-00435-021B	P00674	Putty	Off-White Brittle; Homogeneous	3% Chrysotile	97% Non-Fibrous
			Total Asbestos:	3%	
13-10-00435-022A	P00675	Mortar	Gray Granular; Homogeneous	NAD	100% Non-Fibrous
13-10-00435-022B	P00675	Brick	Red Cementitious; Homogeneous	NAD	100% Non-Fibrous
13-10-00435-023	P00676		Gray/Yellow Powder; Fibrous; Beige Rubbery; White Fibrous; Inhomogeneous	NAD	2% Cellulose 14% Fibrous Glass 6% Synthetic 78% Non-Fibrous

Environmental Hazards Services, L.L.C

Client Number: 49-3308 Report Number: 13-10-00435

Project/Test Address: Todd Hall Full Building; Pullman, WA

Lab Sample Number	Client Sample Number	Layer Type	Lab Gross Description	Asbestos	Other Materials
13-10-00435-024	P00677		Black Tar-Like; Tan Fibrous; Inhomogeneous	NAD	80% Cellulose 20% Non-Fibrous
13-10-00435-025	P00678		White Granular; Powder; Tan Fibrous; Gray Paint-Like; Inhomogeneous	NAD	14% Cellulose 8% Fibrous Glass 78% Non-Fibrous
13-10-00435-026	P00679		Gray/Yellow Powder; Fibrous; Beige Rubbery; White Fibrous; Inhomogeneous	NAD	1% Cellulose 22% Fibrous Glass 77% Non-Fibrous
13-10-00435-027	P00680		White Granular; Powder; Fibrous; Inhomogeneous	NAD	22% Cellulose 78% Non-Fibrous
13-10-00435-028	P00681		White Granular; Powder; White/Tan Fibrous; Gray Paint-Like; Inhomogeneous	NAD	23% Cellulose 77% Non-Fibrous
13-10-00435-029	P00682		Gray/Yellow Powder; Fibrous; Beige Rubbery; White Fibrous; Inhomogeneous	NAD	2% Cellulose 14% Fibrous Glass 9% Synthetic 75% Non-Fibrous
13-10-00435-030	P00683		Gray Powder; Fibrous; White Foam; Inhomogeneous	NAD	30% Cellulose 70% Non-Fibrous

Environmental Hazards Services, L.L.C

Client Number: 49-3308 Report Number: 13-10-00435

Project/Test Address: Todd Hall Full Building; Pullman, WA

Lab Sample Number	Client Sample Number	Layer Type	Lab Gross Description	Asbestos	Other Materials
13-10-00435-031	P00684		Gray Powder; Fibrous; White Foam; Inhomogeneous	NAD	30% Cellulose 70% Non-Fibrous
13-10-00435-032	P00685		Gray Powder; Fibrous; White Foam; Inhomogeneous	NAD	30% Cellulose 70% Non-Fibrous
13-10-00435-033	P00686		Gray Powder; Fibrous; White Foam; Inhomogeneous	NAD	30% Cellulose 70% Non-Fibrous
13-10-00435-034	P00687		Gray Powder; Fibrous; White Foam; Inhomogeneous	NAD	30% Cellulose 70% Non-Fibrous
13-10-00435-035	P00688		Gray Powder; Fibrous; White Foam; Inhomogeneous	NAD	30% Cellulose 70% Non-Fibrous
13-10-00435-036	P00689		Gray Powder; Fibrous; White Foam; Inhomogeneous	NAD	30% Cellulose 70% Non-Fibrous

Environmental Hazards Services, L.L.C

Client Number: 49-3308 Report Number: 13-10-00435

Project/Test Address: Todd Hall Full Building; Pullman, WA

Lab Sample Number	Client Sample Number	Layer Type	Lab Gross Description	Asbestos	Other Materials

QC Sample: 20-M11990-4

QC Blank: SRM 1866 Fiberglass

Reporting Limit: 1% Asbestos

Method: EPA Method 600/R-93/116, EPA Method 600/M4-82-020

Analyst: Vickie Holmes

Reviewed By Authorized Signatory: Howard D. Varner

Howard Varner
General Manager

The condition of the samples analyzed was acceptable upon receipt per laboratory protocol unless otherwise noted on this report. Each distinct component in an inhomogeneous sample was analyzed separately and reported as a composite. Results represent the analysis of samples submitted by the client. Sample location, description, area, volume, etc., was provided by the client. This report cannot be used by the client to claim product endorsement by NVLAP or any agency of the U.S. Government. This report shall not be reproduced except in full, without the written consent of the Environmental Hazards Service, L.L.C. California Certification #2319 NY ELAP #11714 NVLAP #101882-0. All information concerning sampling location, date, and time can be found on Chain-of-Custody. Environmental Hazards Services, L.L.C. does not perform any sample collection.

Environmental Hazards Services, L.L.C. recommends reanalysis by point count (for more accurate quantification) or Transmission Electron Microscopy (TEM), (for enhanced detection capabilities) for materials regulated by EPA NESHAP (National Emission Standards for Hazardous Air Pollutants) and found to contain less than ten percent (<10%) asbestos by polarized light microscopy (PLM). Both services are available for an additional fee.

400 Point Count Analysis, where noted, performed per EPA Method 600/R-93/116 with a Reporting Limit of 0.25%.

* All California samples analyzed by Polarized Light Microscopy, EPA Method 600/M4-82-020, Dec. 1982.

LEGEND: NAD = no asbestos detected

36 PLM

Attachment D: Todd Hall Good Faith Hazardous Material Survey

EHS Laboratories™

Asbestos Chain-of-Custody

13-10-00435

Due Date:
10/08/2013
(Tuesday)
AE M

V

Environmental Hazards Services, LLC

www.leadlab.com
(800)347-4010
(804)275-4907 (fax)

7469 Whitepine Rd
Richmond, VA
23237

Company Name: Washington State University Health and Safety Address: P.O. Box 641172 City/State/Zip: Pullman, WA 99164

Phone: (509) 335-5604 Fax: ( ) E-mail: WSU List Acct. Number: 49-3308 D

Project Name / Testing Address: Todd Hall Full Building **City/State (Required):** Pullman, WA

Collected by: Matthew McKibbin Purchase Order Number:

Turn Around Times : *If no TAT is specified, sample(s) will be processed and charged as 3-day TAT.*

_____ 1 - Day _____ 2 - Day __X__ 3 - Day _____ Same Day (Must Call Ahead) _____ Weekend (Must Call Ahead)

No.	Client Sample ID	Date Collected	ASBESTOS							AIR					COMMENTS
			PLM	PLM Point Count 400	PLM Point Count 1000	PLM NY Protocol	PCM	TEM Chatfield (Bulk)	TEM AHERA (Air)	Time On	Time Off	Flow Rate (L/min)	Total Time (minutes)	Volume (Total Liters)	
1	P00654	09/27/13	X												See Data Sheets
2	P00655		X												
3	P00656		X												
4	P00657		X												
5	P00658		X												
6	P00659		X												
7	P00660		X												
8	P00661		X												
9	P00662		X												
10	P00663		X												

Released by: Matt McKibbin Signature: Date/Time: 10/2/13 1200

Received by: THurnard Signature: Date/Time: 10/3/13

Attachment D: Todd Hall Good Faith Hazardous Material Survey

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(804)275-4907 (fax)

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Richmond, VA
23237

Asbestos Chain-of-Custody

435

~ For Lab Use Only ~

Company Name: Washington State University Health and Safety Address: P.O. Box 641172 City/State/Zip: Pullman, WA 99164

Phone: (509) 335-5604 Fax: ( ) E-mail: WSU List Acct. Number: 49-3308 D

Project Name / Testing Address: Todd Hall Full Building City/State (Required): Pullman, WA

Collected by: Matthew McKibbin Purchase Order Number:

Turn Around Times : *If no TAT is specified, sample(s) will be processed and charged as 3-day TAT.*

_____ 1 - Day _____ 2 - Day __X__ 3 - Day _____ Same Day (Must Call Ahead) _____ Weekend (Must Call Ahead)

No.	Client Sample ID	Date Collected	ASBESTOS							AIR					COMMENTS
			PLM	PLM Point Count 400	PLM Point Count 1000	PLM NY Protocol	PCM	TEM Chatfield (Bulk)	TEM AHERA (Air)	Time On	Time Off	Flow Rate (L/min)	Total Time (minutes)	Volume (Total Liters)	
1	P00664	09/27/13	X												
2	P00665		X												
3	P00666		X												
4	P00667		X												
5	P00668		X												
6	P00669		X												
7	P00670		X												
8	P00671		X												
9	P00672		X												
10	P00673		X												

Released by: Matt McKibbin Signature: Matt McKibbin Date/Time: 10/2/13 1200

Received by: Thurnell Signature: Thurnell Date/Time: 10/3/13

Attachment D: Todd Hall Good Faith Hazardous Material Survey

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Asbestos Chain-of-Custody

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Company Name: Washington State University Health and Safety Address: P.O. Box 641172 City/State/Zip: Pullman, WA 99164

Phone: (509) 335-5604 Fax: ( ) E-mail: WSU List Acct. Number: 49-3308 D

Project Name / Testing Address: Todd Hall Full Building City/State (Required): Pullman, WA

Collected by: Matthew McKibbin Purchase Order Number:

Turn Around Times : *If no TAT is specified, sample(s) will be processed and charged as 3-day TAT.*

____ 1 - Day ____ 2 - Day X 3 - Day ____ Same Day (Must Call Ahead) ____ Weekend (Must Call Ahead)

No.	Client Sample ID	Date Collected	ASBESTOS							AIR					COMMENTS
			PLM	PLM Point Count 400	PLM Point Count 1000	PLM NY Protocol	PCM	TEM Chatfield (Bulk)	TEM AHERA (Air)	Time On	Time Off	Flow Rate (L/min)	Total Time (minutes)	Volume (Total Liters)	
1	P00674	09/27/13	X												
2	P00675	"	X												
3	P00676	"	X												
4	P00677	"	X												
5	P00678	"	X												
6	P00679	"	X												
7	P00680	"	X												
8	P00681	"	X												
9	P00682	"	X												
10	P00683	"	X												

Released by: Matt McKibbin Signature: Date/Time: 10/2/13 1200

Received by: TH Signature: Date/Time: 10/3/13

Attachment D: Todd Hall Good Faith Hazardous Material Survey

EHS Laboratories™

Environmental Hazards Services, LLC

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(800)347-4010
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23237

Asbestos Chain-of-Custody

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Company Name: Washington State University Health and Safety Address: P.O. Box 641172 City/State/Zip: Pullman, WA 99164

Phone: (509) 335-5604 Fax: ( ) E-mail: WSU List Acct. Number: 49-3308 D

Project Name / Testing Address: Todd Hall Full Building City/State (Required): Pullman, WA

Collected by: Matthew McKibbin Purchase Order Number:

Turn Around Times : *If no TAT is specified, sample(s) will be processed and charged as 3-day TAT.*

_____ 1 - Day _____ 2 - Day _X_ 3 - Day _____ Same Day (Must Call Ahead) _____ Weekend (Must Call Ahead)

No.	Client Sample ID	Date Collected	ASBESTOS							AIR					COMMENTS
			PLM	PLM Point Count 400	PLM Point Count 1000	PLM NY Protocol	PCM	TEM Chatfield (Bulk)	TEM AHERA (Air)	Time On	Time Off	Flow Rate (L/min)	Total Time (minutes)	Volume (Total Liters)	
1	P00684	09/27/13	X												
2	P00685		X												
3	P00686		X												
4	P00687		X												
5	P00688		X												
6	P00689		X												
7															
8															
9															
10															

Released by: Matt McKibbin	Signature:	Date/Time: 10/2/13 1200
Received by:	Signature:	Date/Time: 10/3/13

Environmental Hazards Services, L.L.C.
7469 Whitepine Rd
Richmond, VA 23237
Telephone: 800.347.4010

Asbestos Bulk Analysis Report

Report Number: 13-10-01680

Client: Washington State University - Pullman
P.O. BOX 641172
Pullman, WA 99164

Received Date: 10/12/2013
Analyzed Date: 10/17/2013
Reported Date: 10/17/2013

Project/Test Address: Todd Hall Full Building; Pullman, WA

Client Number: 49-3308

Fax Number: 509-335-4442

Laboratory Results

Lab Sample Number	Client Sample Number	Layer Type	Lab Gross Description	Asbestos	Other Materials
13-10-01680-001	P00713		White Chalky; Granular; Brown Fibrous; Inhomogeneous	NAD	25% Cellulose 8% Fibrous Glass 67% Non-Fibrous
13-10-01680-002A	P00714	Cove Base	Gray Vinyl; Homogeneous	NAD	100% Non-Fibrous
13-10-01680-002B	P00714	Mastic	Yellow Adhesive; Homogeneous	NAD	100% Non-Fibrous
13-10-01680-003	P00715		Yellow Adhesive; Homogeneous	NAD	100% Non-Fibrous
13-10-01680-004A	P00716	Tile	Gray Vinyl; Homogeneous	NAD	100% Non-Fibrous

Environmental Hazards Services, L.L.C

Client Number: 49-3308 Report Number: 13-10-01680

Project/Test Address: Todd Hall Full Building; Pullman, WA

Lab Sample Number	Client Sample Number	Layer Type	Lab Gross Description	Asbestos	Other Materials
13-10-01680-004B	P00716	Mastic	Yellow Adhesive; Homogeneous	NAD	100% Non-Fibrous
13-10-01680-004C	P00716	Leveling Comp.	White Granular; Homogeneous	NAD	100% Non-Fibrous
13-10-01680-005	P00717		Tan Paint-Like; White/Gray Granular; Inhomogeneous	NAD	100% Non-Fibrous
13-10-01680-006A	P00718	Ceramic Tile	Green Cementitious; Homogeneous	NAD	100% Non-Fibrous
13-10-01680-006B	P00718	Paint	White Paint-Like; Homogeneous	NAD	100% Non-Fibrous
13-10-01680-006C	P00718	Grout	White Granular; Homogeneous	NAD	100% Non-Fibrous
13-10-01680-007	P00719		Red Paint-Like; White/Gray Cementitious; Inhomogeneous	NAD	100% Non-Fibrous
13-10-01680-008	P00720		White Granular; Homogeneous	NAD	1% Cellulose 99% Non-Fibrous

Environmental Hazards Services, L.L.C

Client Number: 49-3308 Report Number: 13-10-01680

Project/Test Address: Todd Hall Full Building; Pullman, WA

Lab Sample Number	Client Sample Number	Layer Type	Lab Gross Description	Asbestos	Other Materials
13-10-01680-009A	P00721	Tile	Gray Vinyl; Homogeneous	NAD	100% Non-Fibrous
13-10-01680-009B	P00721	Mastic	Yellow Adhesive; Homogeneous	NAD	100% Non-Fibrous
13-10-01680-010	P00722		White Chalky; Granular; Brown Fibrous; Inhomogeneous	NAD	20% Cellulose 80% Non-Fibrous
13-10-01680-011	P00723		White Chalky; Granular; Brown Fibrous; Inhomogeneous	NAD	25% Cellulose 75% Non-Fibrous
13-10-01680-012	P00724		Gray Vinyl; Homogeneous	NAD	100% Non-Fibrous
13-10-01680-013	P00725		White Chalky; Granular; Brown Fibrous; Inhomogeneous	NAD	20% Cellulose 2% Fibrous Glass 78% Non-Fibrous
13-10-01680-014	P00726		White Paint-Like; Gray Fibrous; Inhomogeneous	NAD	60% Cellulose 25% Fibrous Glass 15% Non-Fibrous
13-10-01680-015	P00727		White Paint-Like; Granular; Inhomogeneous	NAD	100% Non-Fibrous

Environmental Hazards Services, L.L.C

Client Number: 49-3308 Report Number: 13-10-01680

Project/Test Address: Todd Hall Full Building; Pullman, WA

Lab Sample Number	Client Sample Number	Layer Type	Lab Gross Description	Asbestos	Other Materials
13-10-01680-016A	P00728	Silver Paint	Silver Paint-Like; Homogeneous	NAD	100% Non-Fibrous
13-10-01680-016B	P00728	Felt	Black Tar-Like; Homogeneous	NAD	2% Cellulose 15% Synthetic 83% Non-Fibrous
13-10-01680-017A	P00729	Silver Paint	Silver Paint-Like; Homogeneous	NAD	100% Non-Fibrous
13-10-01680-017B	P00729	Felt	Black Tar-Like; Homogeneous	NAD	2% Cellulose 15% Fibrous Glass 83% Non-Fibrous
13-10-01680-018A	P00730	Silver Paint	Silver Paint-Like; Homogeneous	NAD	100% Non-Fibrous
13-10-01680-018B	P00730	Felt	Black Tar-Like; Homogeneous	NAD	15% Synthetic 85% Non-Fibrous
13-10-01680-018C	P00730	Insulation	Tan Fibrous; Homogeneous	NAD	65% Cellulose 5% Fibrous Glass 30% Non-Fibrous
13-10-01680-019A	P00731	Silver Paint	Silver Paint-Like; Homogeneous	NAD	100% Non-Fibrous

Environmental Hazards Services, L.L.C

Client Number: 49-3308 Report Number: 13-10-01680

Project/Test Address: Todd Hall Full Building; Pullman, WA

Lab Sample Number	Client Sample Number	Layer Type	Lab Gross Description	Asbestos	Other Materials
13-10-01680-019B	P00731	Felt	Black Tar-Like Homogeneous	NAD	2% Cellulose 15% Synthetic 83% Non-Fibrous
13-10-01680-020A	P00732	Silver Paint	Silver Paint-Like; Homogeneous	NAD	100% Non-Fibrous
13-10-01680-020B	P00732	Felt	Black Tar-Like; Homogeneous	NAD	15% Synthetic 85% Non-Fibrous

QC Sample: 57-M22004-3

QC Blank: SRM 1866 Fiberglass

Reporting Limit: 1% Asbestos

Method: EPA Method 600/R-93/116, EPA Method 600/M4-82-020

Analyst: Sami Hosn

Reviewed By Authorized Signatory: Tasha Eaddy

Tasha Eaddy
QA/QC Clerk

The condition of the samples analyzed was acceptable upon receipt per laboratory protocol unless otherwise noted on this report. Each distinct component in an inhomogeneous sample was analyzed separately and reported as a composite. Results represent the analysis of samples submitted by the client. Sample location, description, area, volume, etc., was provided by the client. This report cannot be used by the client to claim product endorsement by NVLAP or any agency of the U.S. Government. This report shall not be reproduced except in full, without the written consent of the Environmental Hazards Service, L.L.C. California Certification #2319 NY ELAP #11714 NVLAP #101882-0. All information concerning sampling location, date, and time can be found on Chain-of-Custody. Environmental Hazards Services, L.L.C. does not perform any sample collection.

Environmental Hazards Services, L.L.C. recommends reanalysis by point count (for more accurate quantification) or Transmission Electron Microscopy (TEM), (for enhanced detection capabilities) for materials regulated by EPA NESHAP (National Emission Standards for Hazardous Air Pollutants) and found to contain less than ten percent (<10%) asbestos by polarized light microscopy (PLM). Both services are available for an additional fee.

400 Point Count Analysis, where noted, performed per EPA Method 600/R-93/116 with a Reporting Limit of 0.25%.

* All California samples analyzed by Polarized Light Microscopy, EPA Method 600/M4-82-020, Dec. 1982.

LEGEND: NAD = no asbestos detected

20 PLM

Asbestos Chain-of-Custody

EHS Laboratories™

Environmental Hazards Services, LLC

www.leadlab.com
(800)347-4010
(804)275-4907 (fax)

7469 Whitepine Rd
Richmond, VA
23237

13-10-01680

Due Date:
10/17/2013
(Thursday)
AE M

S

Company Name: Washington State University Health and Safety Address: P.O. Box 641172 City/State/Zip: Pullman, WA 99164

Phone: (509) 335-5604 Fax: ( ) E-mail: WSU List Acct. Number: 49-3308 D

Project Name / Testing Address: Todd Hall Full Building City/State (Required): Pullman, WA

Collected by: Matthew McKibbin Purchase Order Number: 7406-2012

Turn Around Times : *If no TAT is specified, sample(s) will be processed and charged as 3-day TAT.*

_____ 1 - Day _____ 2 - Day X 3 - Day _____ Same Day (Must Call Ahead) _____ Weekend (Must Call Ahead)

No.	Client Sample ID	Date Collected	ASBESTOS							AIR					COMMENTS
			PLM	PLM Point Count 400	PLM Point Count 1000	PLM NY Protocol	PCM	TEM Chatfield (Bulk)	TEM AHERA (Air)	Time On	Time Off	Flow Rate (L/min)	Total Time (minutes)	Volume (Total Liters)	
1	P00713	10-4-13	X												
2	P00714		X												
3	P00715		X												
4	P00716		X												
5	P00717		X												
6	P00718		X												
7	P00719		X												
8	P00720		X												
9	P00721		X												
10	P00722		X												

Released by: Matt McKibbin Signature: Matt McKibbin Date/Time: 10-10-13 / 1600

Received by: Stone Signature: Stone Date/Time: 10/12/13

Attachment D: Todd Hall Good Faith Hazardous Material Survey

Attachment D: Todd Hall Good Faith Hazardous Material Survey

EHS Laboratories™

Environmental Hazards Services, LLC
www.leadlab.com
(800)347-4010
(804)275-4907 (fax)
7469 Whitepine Rd
Richmond, VA
23237

Asbestos Chain-of-Custody

1680
~ For Lab Use Only ~

Company Name: Washington State University Health and Safety Address: P.O. Box 641172 City/State/Zip: Pullman, WA 99164

Phone: (509) 335-5604 Fax: ( ) E-mail: WSU List Acct. Number: 49-3308 D

Project Name / Testing Address: Todd Hall Full Building City/State (Required): Pullman, WA

Collected by: Matthew McKibbin Purchase Order Number: 7406-202

Turn Around Times : *If no TAT is specified, sample(s) will be processed and charged as 3-day TAT.*

_____ 1 - Day _____ 2 - Day X 3 - Day _____ Same Day (Must Call Ahead) _____ Weekend (Must Call Ahead)

No.	Client Sample ID	Date Collected	ASBESTOS							AIR					COMMENTS
			PLM	PLM Point Count 400	PLM Point Count 1000	PLM NY Protocol	PCM	TEM Chatfield (Bulk)	TEM AHERA (Air)	Time On	Time Off	Flow Rate (L/min)	Total Time (minutes)	Volume (Total Liters)	
1	P00723	10-4-13	X												
2	P00724	"	X												
3	P00725	"	X												
4	P00726	"	X												
5	P00727	"	X												
6	P00728	"	X												
7	P00729	"	X												
8	P00730	"	X												
9	P00731	"	X												
10	P00732	"	X												

Released by: Matt McKibbin Signature: Matt McKibbin Date/Time: 10-10-13 1600

Received by: TStone Signature: TStone Date/Time: 10/12/13

EHS Laboratories

Environmental Hazards Services, L.L.C.
7469 Whitepine Rd
Richmond, VA 23237
Telephone: 800.347.4010

Asbestos Bulk Analysis Report

Report Number: 13-11-00056

Client: Washington State University - Pullman
P.O. BOX 641172
Pullman, WA 99164

Received Date: 11/01/2013
Analyzed Date: 11/05/2013
Reported Date: 11/06/2013

Project/Test Address: Todd Hall Full Building; Pullman, WA

Client Number: 49-3308

Fax Number: 509-335-4442

Laboratory Results

Lab Sample Number	Client Sample Number	Layer Type	Lab Gross Description	Asbestos	Other Materials
13-11-00056-001A	P00742	Cove Base	Beige Rubbery; Homogeneous	NAD	100% Non-Fibrous
13-11-00056-001B	P00742	Mastic	Yellow Adhesive; Homogeneous	NAD	2% Cellulose 98% Non-Fibrous
13-11-00056-002	P00743		Black/Beige Vinyl-Like; Inhomogeneous	NAD	100% Non-Fibrous
13-11-00056-003	P00744		White Chalky; Brown Fibrous; White Granular; Gray Paint-Like; Inhomogeneous	NAD	18% Cellulose 2% Fibrous Glass 80% Non-Fibrous
13-11-00056-004A	P00745	Ceramic Tile	Red Cementitious; Homogeneous	NAD	100% Non-Fibrous

Environmental Hazards Services, L.L.C

Client Number: 49-3308 Report Number: 13-11-00056

Project/Test Address: Todd Hall Full Building; Pullman, WA

Lab Sample Number	Client Sample Number	Layer Type	Lab Gross Description	Asbestos	Other Materials
13-11-00056-004B	P00745	Other *	Gray Granular; Homogeneous	NAD	100% Non-Fibrous
*Thin-Set					
13-11-00056-005	P00746		White Chalky; Gray Brittle; Inhomogeneous	NAD	15% Fibrous Glass 85% Non-Fibrous
13-11-00056-006	P00747		Beige Granular; Homogeneous	NAD	100% Non-Fibrous
13-11-00056-007	P00748		White Chalky; Brown Fibrous; White Granular; Beige Brittle; White Paint-Like; Inhomogeneous	NAD	25% Cellulose 2% Fibrous Glass 73% Non-Fibrous
13-11-00056-008A	P00749	Tile	Gray Granular; Homogeneous	NAD	100% Non-Fibrous
13-11-00056-008B	P00749	Mastic	Yellow Adhesive; Homogeneous	NAD	2% Cellulose 98% Non-Fibrous
13-11-00056-009A	P00750	Tile	Gray Granular; Homogeneous	NAD	100% Non-Fibrous
13-11-00056-009B	P00750	Mastic	Yellow Adhesive; Homogeneous	NAD	2% Cellulose 98% Non-Fibrous

Environmental Hazards Services, L.L.C

Client Number: 49-3308 Report Number: 13-11-00056

Project/Test Address: Todd Hall Full Building; Pullman, WA

Lab Sample Number	Client Sample Number	Layer Type	Lab Gross Description	Asbestos	Other Materials
13-11-00056-010A	P00751	Cove Base	Gray Rubbery; Homogeneous	NAD	100% Non-Fibrous
13-11-00056-010B	P00751	Mastic	Off-White Adhesive; Homogeneous	NAD	2% Cellulose 98% Non-Fibrous
13-11-00056-010C	P00751	Joint Comp.	White Granular; Homogeneous	NAD	100% Non-Fibrous
13-11-00056-011A	P00752	Flooring	Orange/Gray Vinyl-Like; Inhomogeneous	NAD	100% Non-Fibrous
13-11-00056-011B	P00752	Mastic	Clear Adhesive; Homogeneous	NAD	2% Cellulose 98% Non-Fibrous
13-11-00056-012	P00753		Blue Adhesive; Homogeneous	NAD	2% Cellulose 2% Synthetic 96% Non-Fibrous
13-11-00056-013	P00754		Gray Adhesive; Homogeneous	NAD	100% Non-Fibrous
13-11-00056-014	P00755		Gray Granular; Homogeneous	NAD	100% Non-Fibrous

Environmental Hazards Services, L.L.C

Client Number: 49-3308 Report Number: 13-11-00056

Project/Test Address: Todd Hall Full Building; Pullman, WA

Lab Sample Number	Client Sample Number	Layer Type	Lab Gross Description	Asbestos	Other Materials
13-11-00056-015	P00756		White Chalky; Brown Fibrous; White Paint-Like; Inhomogeneous	NAD	18% Cellulose 2% Fibrous Glass 80% Non-Fibrous
13-11-00056-016	P00757		Gray Fibrous; Homogeneous	NAD	50% Cellulose 35% Fibrous Glass 5% Synthetic 10% Non-Fibrous
13-11-00056-017	P00758		Gray Fibrous; Homogeneous	NAD	50% Cellulose 35% Fibrous Glass 5% Synthetic 10% Non-Fibrous
13-11-00056-018	P00759		White Chalky; White Vinyl-Like; Inhomogeneous	NAD	50% Cellulose 35% Fibrous Glass 5% Synthetic 10% Non-Fibrous
13-11-00056-019	P00760		Gray Fibrous; White Paint-Like; Inhomogeneous	NAD	50% Cellulose 35% Fibrous Glass 5% Synthetic 10% Non-Fibrous
13-11-00056-020	P00761		Gray Fibrous; White Paint-Like; Inhomogeneous	NAD	50% Cellulose 35% Fibrous Glass 5% Synthetic 10% Non-Fibrous

Environmental Hazards Services, L.L.C

Client Number: 49-3308 Report Number: 13-11-00056

Project/Test Address: Todd Hall Full Building; Pullman, WA

Lab Sample Number	Client Sample Number	Layer Type	Lab Gross Description	Asbestos	Other Materials
13-11-00056-021	P00762		Gray Fibrous; White Paint-Like; Inhomogeneous	NAD	50% Cellulose 35% Fibrous Glass 5% Synthetic 10% Non-Fibrous
13-11-00056-022	P00763		White Chalky; Brown Fibrous; White Textured; Inhomogeneous	NAD	18% Cellulose 2% Fibrous Glass 80% Non-Fibrous
13-11-00056-023	P00764		White Chalky; Brown Fibrous; White Textured; Inhomogeneous	NAD	18% Cellulose 2% Fibrous Glass 80% Non-Fibrous
13-11-00056-024	P00765		White Chalky; Brown Fibrous; White Textured; Inhomogeneous	NAD	18% Cellulose 2% Fibrous Glass 80% Non-Fibrous
13-11-00056-025	P00766		Gray Granular; Homogeneous	NAD	100% Non-Fibrous
13-11-00056-026	P00767		Gray Granular; Homogeneous	NAD	10% Cellulose 90% Non-Fibrous
13-11-00056-027A	P00768	Tile	Gray Granular; Homogeneous	NAD	100% Non-Fibrous

Environmental Hazards Services, L.L.C

Client Number: 49-3308 Report Number: 13-11-00056

Project/Test Address: Todd Hall Full Building; Pullman, WA

Lab Sample Number	Client Sample Number	Layer Type	Lab Gross Description	Asbestos	Other Materials
13-11-00056-027B	P00768	Mastic	Brown Adhesive; Homogeneous	NAD	2% Cellulose 98% Non-Fibrous
13-11-00056-028A	P00769	Cove Base	Gray Rubbery; Homogeneous	NAD	100% Non-Fibrous
13-11-00056-028B	P00769	Mastic	Beige Adhesive; Homogeneous	NAD	2% Cellulose 98% Non-Fibrous
13-11-00056-029A	P00770	Cove Base	Gray Rubbery; Homogeneous	NAD	100% Non-Fibrous
13-11-00056-029B	P00770	Mastic	Beige Adhesive; Homogeneous	NAD	2% Cellulose 98% Non-Fibrous
13-11-00056-030	P00771		Gray Fibrous; Homogeneous	NAD	50% Cellulose 35% Fibrous Glass 5% Synthetic 10% Non-Fibrous
13-11-00056-031	P00772		White Chalky; Brown Fibrous; White Textured; Inhomogeneous	NAD	18% Cellulose 2% Fibrous Glass 80% Non-Fibrous
13-11-00056-032	P00773		White Chalky; Brown Fibrous; White Textured; Inhomogeneous	NAD	18% Cellulose 2% Fibrous Glass 80% Non-Fibrous

Environmental Hazards Services, L.L.C

Client Number: 49-3308 Report Number: 13-11-00056

Project/Test Address: Todd Hall Full Building; Pullman, WA

Lab Sample Number	Client Sample Number	Layer Type	Lab Gross Description	Asbestos	Other Materials
13-11-00056-033	P00774		Gray Powder; Fibrous; Homogeneous	NAD	25% Cellulose 2% Fibrous Glass 73% Non-Fibrous
13-11-00056-034	P00775		Gray Fibrous; Homogeneous	NAD	25% Cellulose 2% Fibrous Glass 73% Non-Fibrous
13-11-00056-035	P00776		Gray Fibrous; Homogeneous	NAD	25% Cellulose 2% Fibrous Glass 73% Non-Fibrous
13-11-00056-036	P00777		Gray Powder; Fibrous; Inhomogeneous	NAD	25% Cellulose 2% Fibrous Glass 73% Non-Fibrous
13-11-00056-037	P00778		White Chalky; Brown Fibrous; White Paint-Like; Inhomogeneous	NAD	20% Cellulose 80% Non-Fibrous
13-11-00056-038A	P00779	Tile	Gray Granular; Homogeneous	NAD	100% Non-Fibrous
13-11-00056-038B	P00779	Mastic	Yellow Adhesive; Homogeneous	NAD	2% Cellulose 98% Non-Fibrous

Environmental Hazards Services, L.L.C

Client Number: 49-3308 Report Number: 13-11-00056

Project/Test Address: Todd Hall Full Building; Pullman, WA

Lab Sample Number	Client Sample Number	Layer Type	Lab Gross Description	Asbestos	Other Materials
13-11-00056-039	P00780		Gray Granular; Homogeneous	NAD	2% Cellulose 2% Hair 96% Non-Fibrous
13-11-00056-040	P00781		Red/Gray Granular; Inhomogeneous	NAD	100% Non-Fibrous
13-11-00056-041	P00782		Gray Granular; Homogeneous	NAD	100% Non-Fibrous
13-11-00056-042	P00783		White Adhesive; Homogeneous	NAD	100% Non-Fibrous
13-11-00056-043	P00784		Green Adhesive; Homogeneous	NAD	2% Cellulose 2% Fibrous Glass 2% Synthetic 94% Non-Fibrous
13-11-00056-044	P00785		Gray/White Granular; Beige Pliable; Inhomogeneous	NAD	100% Non-Fibrous
Could not cleanly separate materials.					
13-11-00056-045	P00786		Gray/White Granular; Inhomogeneous	NAD	2% Cellulose 98% Non-Fibrous
13-11-00056-046	P00787		Gray/White Cementitious; Homogeneous	NAD	100% Non-Fibrous

Environmental Hazards Services, L.L.C

Client Number: 49-3308 Report Number: 13-11-00056

Project/Test Address: Todd Hall Full Building; Pullman, WA

Lab Sample Number	Client Sample Number	Layer Type	Lab Gross Description	Asbestos	Other Materials
13-11-00056-047	P00788		Beige Adhesive; Fibrous; Inhomogeneous	NAD	25% Cellulose 75% Non-Fibrous
13-11-00056-048	P00789		Gray Granular; Homogeneous	NAD	2% Cellulose 98% Non-Fibrous
13-11-00056-049	P00790		Gray Powder; Fibrous; Homogeneous	NAD	25% Cellulose 2% Fibrous Glass 73% Non-Fibrous
13-11-00056-050	P00791		Gray Powder; Fibrous; Homogeneous	NAD	25% Cellulose 2% Fibrous Glass 73% Non-Fibrous
13-11-00056-051	P00792		Gray Powder; Fibrous; Homogeneous	NAD	25% Cellulose 2% Fibrous Glass 73% Non-Fibrous
13-11-00056-052	P00793		Gray Powder; Fibrous; Homogeneous	NAD	25% Cellulose 2% Fibrous Glass 73% Non-Fibrous
13-11-00056-053	P00794		Gray Powder; Fibrous; Homogeneous	NAD	25% Cellulose 2% Fibrous Glass 73% Non-Fibrous

Environmental Hazards Services, L.L.C

Client Number: 49-3308 Report Number: 13-11-00056

Project/Test Address: Todd Hall Full Building; Pullman, WA

Lab Sample Number	Client Sample Number	Layer Type	Lab Gross Description	Asbestos	Other Materials
13-11-00056-054	P00795		White Chalky; Brown Fibrous; White Granular; White Paint-Like; Inhomogeneous	NAD	25% Cellulose 75% Non-Fibrous
13-11-00056-055	P00796		White Chalky; Brown Fibrous; Beige Paint-Like; Inhomogeneous	NAD	25% Cellulose 75% Non-Fibrous
13-11-00056-056	P00797		White Chalky; Brown Fibrous; White Granular; White Paint-Like; Inhomogeneous	NAD	15% Cellulose 85% Non-Fibrous

Environmental Hazards Services, L.L.C

Client Number: 49-3308 Report Number: 13-11-00056

Project/Test Address: Todd Hall Full Building; Pullman, WA

Lab Sample Number	Client Sample Number	Layer Type	Lab Gross Description	Asbestos	Other Materials

QC Sample: 6-M1-1991-2

QC Blank: SRM 1866 Fiberglass

Reporting Limit: 1% Asbestos

Method: EPA Method 600/R-93/116, EPA Method 600/M4-82-020

Analyst: Timothy Harris

Reviewed By Authorized Signatory: Tasha Eaddy

Tasha Eaddy
QA/QC Clerk

The condition of the samples analyzed was acceptable upon receipt per laboratory protocol unless otherwise noted on this report. Each distinct component in an inhomogeneous sample was analyzed separately and reported as a composite. Results represent the analysis of samples submitted by the client. Sample location, description, area, volume, etc., was provided by the client. This report cannot be used by the client to claim product endorsement by NVLAP or any agency of the U.S. Government. This report shall not be reproduced except in full, without the written consent of the Environmental Hazards Service, L.L.C. California Certification #2319 NY ELAP #11714 NVLAP #101882-0. All information concerning sampling location, date, and time can be found on Chain-of-Custody. Environmental Hazards Services, L.L.C. does not perform any sample collection.

Environmental Hazards Services, L.L.C. recommends reanalysis by point count (for more accurate quantification) or Transmission Electron Microscopy (TEM), (for enhanced detection capabilities) for materials regulated by EPA NESHAP (National Emission Standards for Hazardous Air Pollutants) and found to contain less than ten percent (<10%) asbestos by polarized light microscopy (PLM). Both services are available for an additional fee.

400 Point Count Analysis, where noted, performed per EPA Method 600/R-93/116 with a Reporting Limit of 0.25%.

* All California samples analyzed by Polarized Light Microscopy, EPA Method 600/M4-82-020, Dec. 1982.

LEGEND: NAD = no asbestos detected

56 PLM

Asbestos Chain-of-Custody

13-11-00056

Due Date:
11/06/2013
(Wednesday)
AE M

Environmental Hazards Services, LLC

www.leadlab.com
(800)347-4010
(804)275-4907 (fax)

7469 Whitepine Rd
Richmond, VA
23237

Attachment D: Todd Hall Good Faith Hazardous Material Survey

Company Name: Washington State University Health and Safety Address: P.O. Box 641172 City/State/Zip: Pullman, WA 99164

Phone: (509) 335-5604 Fax: ( ) E-mail: WSU List Acct. Number: 49-3308 D

Project Name / Testing Address: Todd Hall Full Building City/State (Required): Pullman, WA

Collected by: Matthew McKibbin Purchase Order Number: ~~7406-2012~~ (2014-000103)

Turn Around Times : *If no TAT is specified, sample(s) will be processed and charged as 3-day TAT.*

_____ 1 - Day _____ 2 - Day X 3 - Day _____ Same Day (Must Call Ahead) _____ Weekend (Must Call Ahead)

No.	Client Sample ID	Date Collected	ASBESTOS							AIR					COMMENTS
			PLM	PLM Point Count 400	PLM Point Count 1000	PLM NY Protocol	PCM	TEM Chatfield (Bulk)	TEM AHERA (Air)	Time On	Time Off	Flow Rate (L/min)	Total Time (minutes)	Volume (Total Liters)	
1	P00742	10/22/13	X												56 Samples
2			X												See data sheet
3			X												
4			X												
5			X												
6			X												
7			X												
8			X												
9			X												
10	P00797		X												

Released by: Matt McKibbin Signature: [signature] Date/Time: 10/30/13 1200

Received by: J Howard Signature: [signature] Date/Time: 11/1/13

APPENDIX B

Laboratory Accreditations and Certificates

Attachment D: Todd Hall Good Faith Hazardous Material Survey

United States Department of Commerce
National Institute of Standards and Technology

NVLAP®

Certificate of Accreditation to ISO/IEC 17025:2005

NVLAP LAB CODE: 101882-0

Environmental Hazards Services, L.L.C.

Richmond, VA

is accredited by the National Voluntary Laboratory Accreditation Program for specific services, listed on the Scope of Accreditation, for:

BULK ASBESTOS FIBER ANALYSIS

This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2005. This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory quality management system (refer to joint ISO-ILAC-IAF Communique dated January 2009).

2013-01-01 through 2013-12-31

Effective dates

DEPARTMENT OF COMMERCE ★ UNITED STATES OF AMERICA ★

For the National Institute of Standards and Technology

NVLAP-01C (REV. 2009-01-28)

NVLAP® **National Voluntary Laboratory Accreditation Program**

SCOPE OF ACCREDITATION TO ISO/IEC 17025:2005

Environmental Hazards Services, L.L.C.
7469 White Pine Road
Richmond, VA 23237-2261
Ms. Julie Dickerson
Phone: 804-275-4788 Fax: 804-275-4907
E-Mail: jdickerson@leadlab.com
URL: http://www.leadlab.com

BULK ASBESTOS FIBER ANALYSIS (PLM) **NVLAP LAB CODE 101882-0**

NVLAP Code	*Designation / Description*
18/A01	EPA 600/M4-82-020: Interim Method for the Determination of Asbestos in Bulk Insulation Samples

2013-01-01 through 2013-12-31
Effective dates

For the National Institute of Standards and Technology

STATE OF WASHINGTON
DEPARTMENT OF ECOLOGY
PO Box 488 • Manchester, WA 98353-0488 • (360) 895-6144

June 17, 2013

Ms.Julie Dickerson
Environmental Hazards Services LLC
7469 Whitepine Rd
Richmond, VA 23237

Dear Ms. Dickerson:

Thank you for your application for renewal in the Environmental Laboratory Accreditation Program. Enclosed is a new Certificate of Accreditation covering the one-year period beginning June 30, 2013 and a current Scope of Accreditation.

Based on your laboratory's two most recent sets of PT Study results, full accreditation is warranted for all applicable parameters. As a reminder, continued participation in the Ecology Lab Accreditation Program requires the lab to:

- Submit a renewal application and fees annually
- Report significant changes in facility, personnel, analytical methods, equipment, the lab's quality assurance (QA) manual or QA procedures as they occur
- **Participate in proficiency testing studies semi-annually, with the following exception: For each parameter where all PT results were satisfactory, you are required to submit only one PT result over this next year, and in subsequent years, as long as the results are satisfactory.** (This new allowance went into effect on September 9, 2010.) **Note that annual PTs are now required for microbiology methods in Non-Potable water.**
- Submit copies of current third-party Scopes of Accreditation when they are available.

If you have any questions concerning the accreditation of your lab, please contact Dennis Julvezan at (360) 895-6147, fax (360) 895-6180, or by e-mail at djul461@ecy.wa.gov.

Sincerely,

Alan D. Rue
Lab Accreditation Unit Supervisor

AR:DJ:dj
Enclosures

The State of Washington Department of Ecology

Environmental Hazards Services LLC
Richmond, VA

has complied with provisions set forth in Chapter 173-50 WAC and is hereby recognized by the Department of Ecology as an ACCREDITED LABORATORY for the analytical parameters listed on the accompanying Scope of Accreditation. This certificate is effective June 30, 2013 and shall expire June 29, 2014.

Witnessed under my hand on June 17, 2013

Alan D. Rue
Lab Accreditation Unit Supervisor

Laboratory ID
C960

WASHINGTON STATE DEPARTMENT OF ECOLOGY

ENVIRONMENTAL LABORATORY ACCREDITATION PROGRAM

SCOPE OF ACCREDITATION

Environmental Hazards Services LLC

Richmond, VA

is accredited for the analytes listed below using the methods indicated. Full accreditation is granted unless stated otherwise in a note. Accreditation for U.S. Environmental Protection Agency (EPA) "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods" (SW-846) is for the latest version of the method. SM refers to EPA approved editions of “Standard Methods for the Examination of Water and Wastewater.” ASTM is the American Society for Testing and Materials. Other references are described in notes.

Matrix/Analyte	Method	Notes
Solid and Chemical Materials		
Aluminum	EPA 6010C_(2/07)	1
Antimony	EPA 6010C_(2/07)	1
Arsenic	EPA 6010C_(2/07)	1
Barium	EPA 6010C_(2/07)	1
Beryllium	EPA 6010C_(2/07)	1
Cadmium	EPA 6010C_(2/07)	1
Chromium	EPA 6010C_(2/07)	1
Cobalt	EPA 6010C_(2/07)	1
Copper	EPA 6010C_(2/07)	1
Iron	EPA 6010C_(2/07)	1
Lead	EPA 6010C_(2/07)	1
Magnesium	EPA 6010C_(2/07)	1
Manganese	EPA 6010C_(2/07)	1
Molybdenum	EPA 6010C_(2/07)	1
Selenium	EPA 6010C_(2/07)	1
Silver	EPA 6010C_(2/07)	1
Thallium	EPA 6010C_(2/07)	1
Titanium	EPA 6010C_(2/07)	1
Vanadium	EPA 6010C_(2/07)	1
Zinc	EPA 6010C_(2/07)	1
Lead	EPA 7000B (2007)	1
Mercury	EPA 7471B_(1/98)	1

Environmental Hazards Services LLC

Matrix/Analyte	Method	Notes
Asbestos	EPA 600/R-93-116	1

Accredited Parameter Note Detail

(1) Accreditation is based in part on recognition of New York NELAP accreditation.



06/17/2013

Authentication Signature
Alan D. Rue, Lab Accreditation Unit Supervisor

Date

Parameters Not Accredited

Environmental Hazards Services LLC

Richmond, VA

Analyte	Method	Notes	Matrix
Nickel	EPA 6010C_(2/07)	a	S

Denied Parameter Accreditation Footnotes

(a) Withdrawn at laboratory request.

Matrix Definitions - D = Drinking Water; N = Non-potable Water; S = Solid and Chemical Material; A = Air and Emissions.

APPENDIX C

Building Inspector Training Certificate

Certificate of Completion

This is to certify that

Matthew R. McKibbin

has satisfactorily completed
4 hours of refresher training as an

Asbestos Building Inspector

to comply with the training requirements of
TSCA Title II / 40 CFR 763 (AHERA)

141107
Certificate Number

Susan N. Mans
Instructor

EPA Provider Cert. Number: 1085

ARGUS PACIFIC
TRAINING • CONSULTING

Mar 27, 2013
Date(s) of Training

Exam Score: NA

Expiration Date: Mar 27, 2014

Argus Pacific, Inc. • 1900 W. Nickerson, Suite 315 • Seattle, Washington • 98119 • 206.285.3373 • fax 206.285.3927

WASHINGTON STATE UNIVERSITY

Environmental Health and Safety

Good Faith Survey
Todd Addition (0055A)
Washington State University, Pullman, Washington

December 22, 2013



Prepared by:

Matthew McKibbin
Industrial Hygienist III
WSU Environmental Health and Safety
AHERA Building Inspector #141107 (exp. March 27, 2014)

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1 INTRODUCTION

Washington State University (WSU) Environmental Health and Safety (EH&S) conducted a Good Faith Asbestos Survey of the Todd Hall Addition in November and December of 2013. Todd Hall Addition is a four story reinforced concrete classroom and office building. The Todd Hall Addition was built on the north side of the Todd Hall in 1990.

1.1 LIMITATIONS OF THE ASSESSMENT

The conclusions within this report are professional opinions based solely upon visual site observations and interpretations of analytical data as described in this report. The survey excluded areas of the building which were inaccessible and would have caused damage to the building if sampled. Locations where inspectors would have been exposed to chemical or physical hazards were not tested (inside fume hoods with active experiments, HVAC systems in operations, etc). Typical construction techniques can render portions of the structure inaccessible. As a result, additional asbestos-containing materials (ACM) may be present in inaccessible areas (e.g., wall cavities, within energized systems). Suspect regulated materials within inaccessible areas should be presumed to contain asbestos until characterized.

The opinions presented herein apply to the site conditions existing at the time of the investigation, and interpretation of current regulations pertaining to asbestos. Opinions and recommendations provided herein may not apply to future conditions that may exist at the site. Regulatory requirements in effect at the time of the work should be verified prior to any work that impacts regulated materials. This report represents the findings of this survey only, and is not intended to establish scope or contractual terms to regulated material abatement.

2 METHODOLOGY

This good faith survey was conducted by Matthew McKibbin of EH&S, AHERA Building Inspector #141107 (exp. March 27, 2014) in November and December of 2013. Our asbestos survey was performed in accordance with good faith survey requirements outlined in WAC 296-62-07721.

In order to identify suspect ACM, EH&S conducted a walk-through survey of accessible portions of Todd Hall. However, not all concealed areas or sub-surface suspect materials may have been surveyed (see Limiting Conditions in Section 1.1). Approximate quantities of suspect materials were estimated by field measurements. Quantities given are intended for order of magnitude only.

2.1 Asbestos Bulk Sampling

Suspect ACM was grouped into homogeneous sampling areas (HSA) and categorized according to 40 CFR 763, as thermal systems insulation (TSI), surfacing material, or miscellaneous material. Sampling previously conducted by PBS was used to supplement homogeneous areas identified in this survey. The sampling plan included, at a minimum, the collection and analysis of samples as follows:

<u>Thermal System Insulation</u>

- In a distributive manner, a minimum of three samples of each HSA that was not presumed to contain asbestos.
- At least one bulk sample from each homogeneous area of patched TSI if the patch was less than 6 square feet.

<u>Surfacing Material</u>

- In a distributive manner, a minimum of three samples collected from each homogeneous area that was 1,000 square feet or less.

- A minimum of five samples collected from each homogeneous area that was greater than 1,000 square feet but less than or equal to 5,000 square feet.
- A minimum of seven samples collected from each homogeneous area that was greater than 5,000 square feet.

Miscellaneous Material

- In a distributive manner as deemed sufficient by the Inspector. At least one sample was collected of each suspect miscellaneous material not presumed to contain asbestos.

Non-Suspect Materials

- Fiberglass, wood, metal, or other generally recognized non-ACM were not sampled.

Asbestos bulk samples and chain-of-custody forms were delivered to Environmental Hazards Services, L.L.C (EHS) in Richmond, Virginia for analysis. Each sample was analyzed using PLM/dispersion staining in accordance with EPA Method 600/R-93/116. The detection limit for this type of analysis is approximately one percent (by volume). Materials containing more than one percent asbestos are considered to be ACM.

2.2 Lead Paint/Coatings Sampling

This lead survey was performed to assist employers in efforts to comply with the L&I lead standard for the construction industry (WAC 296-155-176) during renovation/demolition. Representative paints were analyzed by a Niton portable x-ray fluorescence (XRF) device. Calibration was conducted within manufacturer's guidelines. Results are reported in milligrams per cubic centimeter (mg/cm^2). Any detection of lead in paint is reported as a lead-containing paint.

3 RESULTS

The following section details the results of asbestos and lead paint/coating sampling conducted by WSU EH&S. Sample locations are provided on Figures 1 through 6. Copies of laboratory analysis reports and chain-of-custody documents are provided in Appendix A. Quantities are estimated for order of magnitude only.

3.1 ASBESTOS-CONTAINING MATERIALS

The following ACMs were identified:

Material	Location(s) of ACM	Approximate Quantity
Black mastic on concrete wall (remnant)	Mechanical room 161, entrance to utility tunnel	25 SF
Black roofing patch cement	Roof	100 SF

The following materials are assumed to contain asbestos:

Material	Location(s) of ACM	Approximate Quantity
Flange gaskets	Pipe flange gaskets throughout Todd Hall (except non-ACM green marble pattern gaskets)	50 EA

Asbestos survey sample numbers, material descriptions, sample locations and analytical results are provided in Table 1. Sample locations are provided on Figures 1 through 6.

3.2 Lead-containing Paints/Coatings

The following materials lead-containing paints/coatings were identified:

Color	Component	Substrate	Location
Gray	Hand rails and stair supports	Metal	Southeast stairwell
Blue	Floor and walls	Ceramic tile	Restrooms throughout
Red	Flooring	Ceramic tile	Room 270 and adjacent kitchen area

Lead paint/coatings sample numbers, descriptions, locations and results are provided in Table 2.

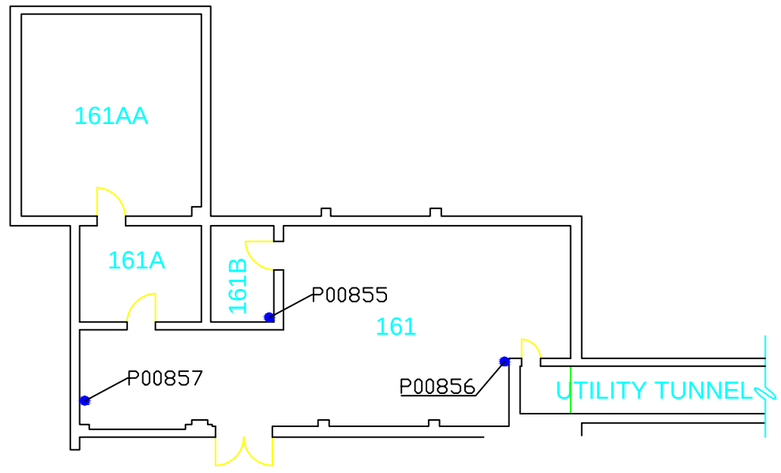
4 CONCLUSIONS AND RECOMMENDATIONS

Laboratory analysis revealed that several materials contain regulated quantities of asbestos (see Results Section 3.1 and Appendix A). Contractors should use caution during construction even after asbestos abatement activities, as concealed ACM that has not previously been analyzed for asbestos may be encountered. Inaccessible concealed spaces (e.g., wall and ceiling spaces enclosed by wallboard, internal components of energized systems etc. have not been surveyed for ACM, and should be presumed to contain asbestos until destructive sampling is performed in those areas.

Materials that have been shown to contain detectable levels of lead are regulated by L&I due to the potential for occupational exposure to lead if these materials are disturbed. Renovation/demolition may disturb the lead-containing coatings and building materials in the Project Area, and may result in worker exposure to lead. Therefore, necessary precautions must be taken to prevent or minimize worker exposure to lead.

A copy of this report must be provided to any entity bidding on work. A copy of this report must also be on site during any construction activities at the site. ACM identified should be removed and disposed prior to disturbance in accordance with WAC 296-62-077. Asbestos abatement must be performed by a licensed asbestos abatement contractor.

FIGURES



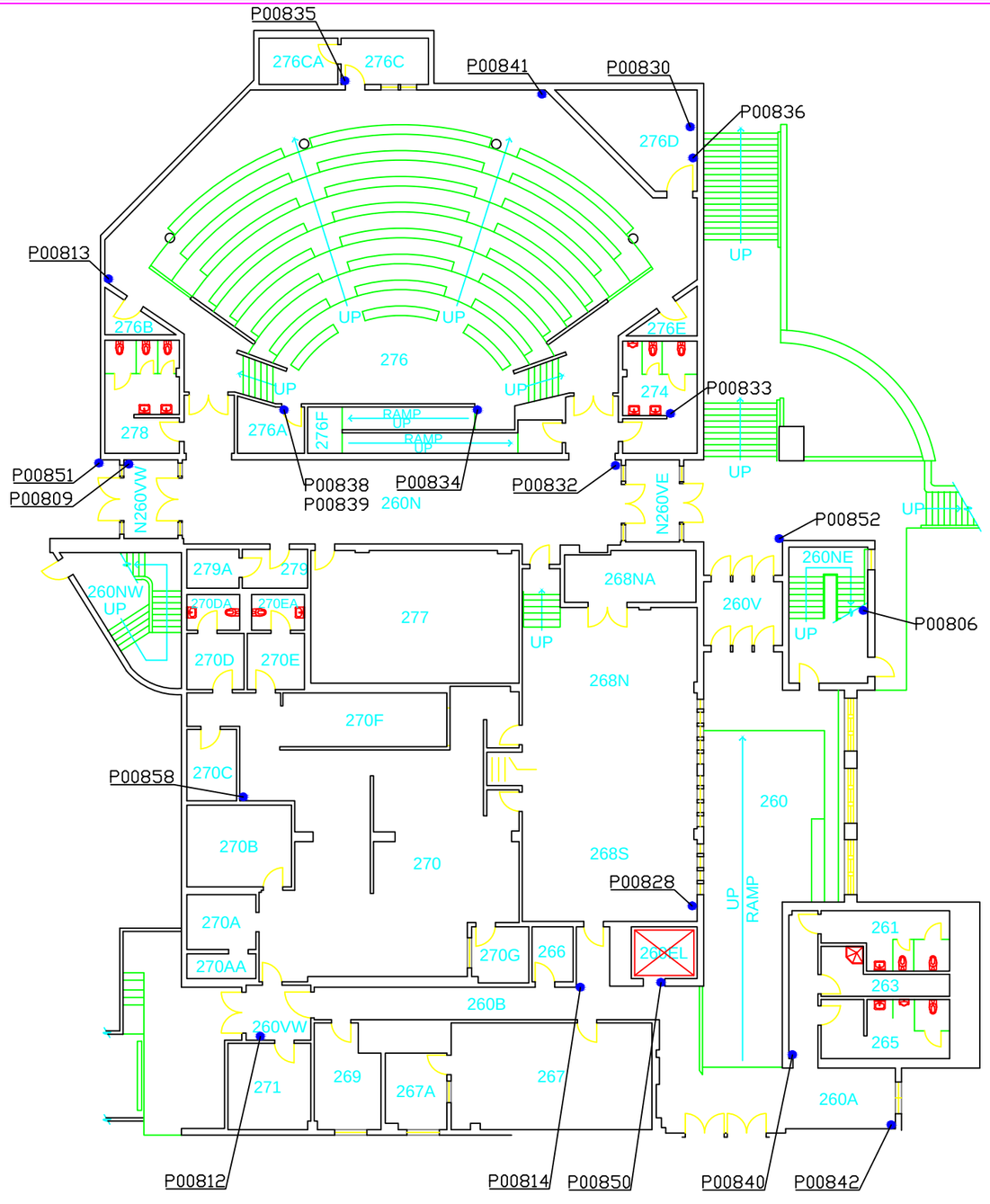
Legend

Asbestos Bulk Sample Location

P00###

First Floor Plan

GROSS SQUARE FEET 1,553 BLDG. TOTAL: 40,255	**Washington State University** **Environmental Health & Safety**	**Todd Hall Addition** **Figure □- Sample Locations**	NORTH	WASHINGTON STATE UNIVERSITY	BLDG. NO. **55A** FIGURE NO. **Figure □**



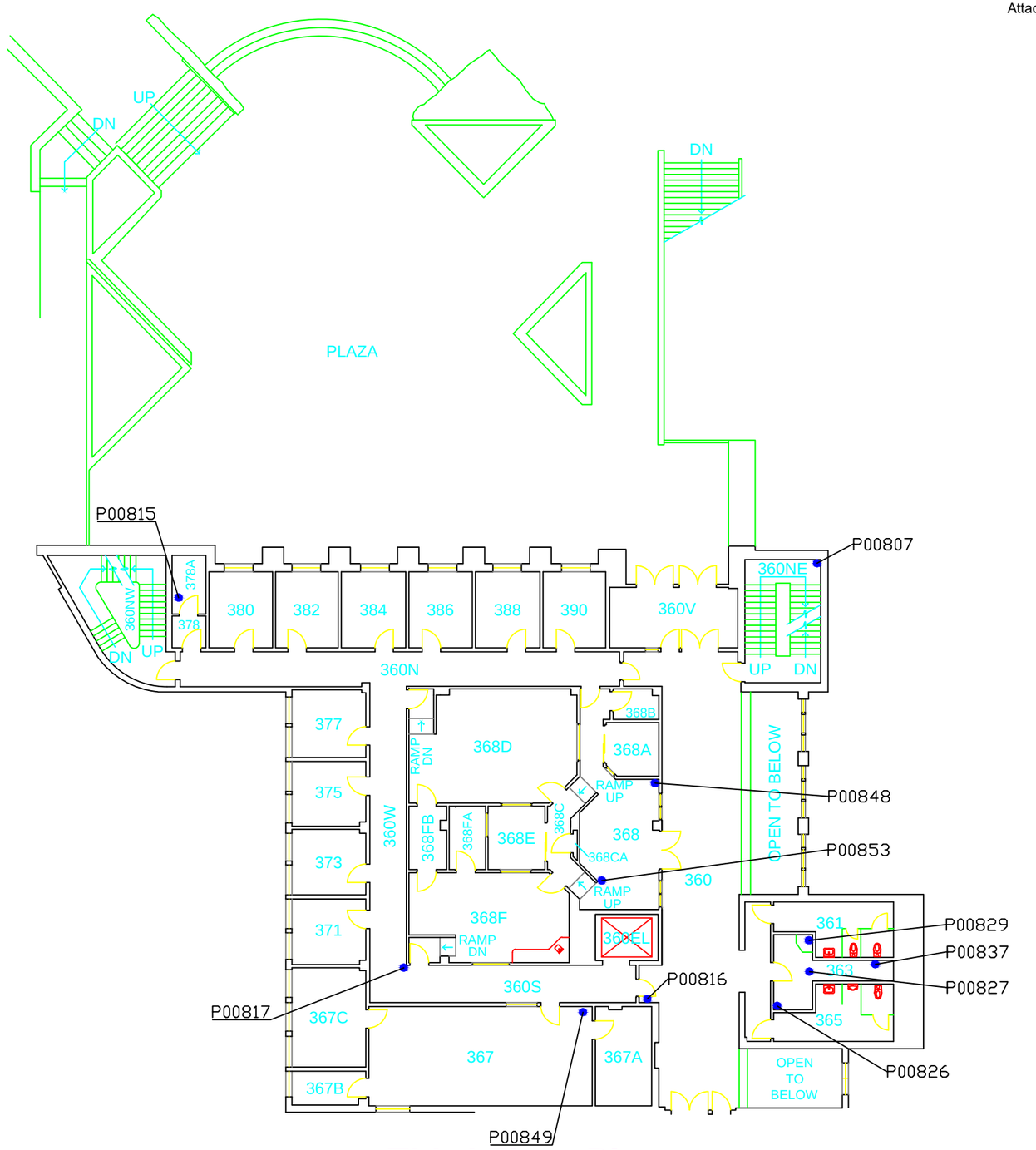
Legend

Asbestos Bulk Sample Location

P00###

Second Floor Plan

GROSS SQUARE FEET					
15,259	Washington State University Environmental Health & Safety	Todd Hall Addition Figure □- Sample Locations	NORTH	WASHINGTON STATE UNIVERSITY	BLDG. NO. 55A FIGURE NO. Figure □
BLDG. TOTAL: 40,255					



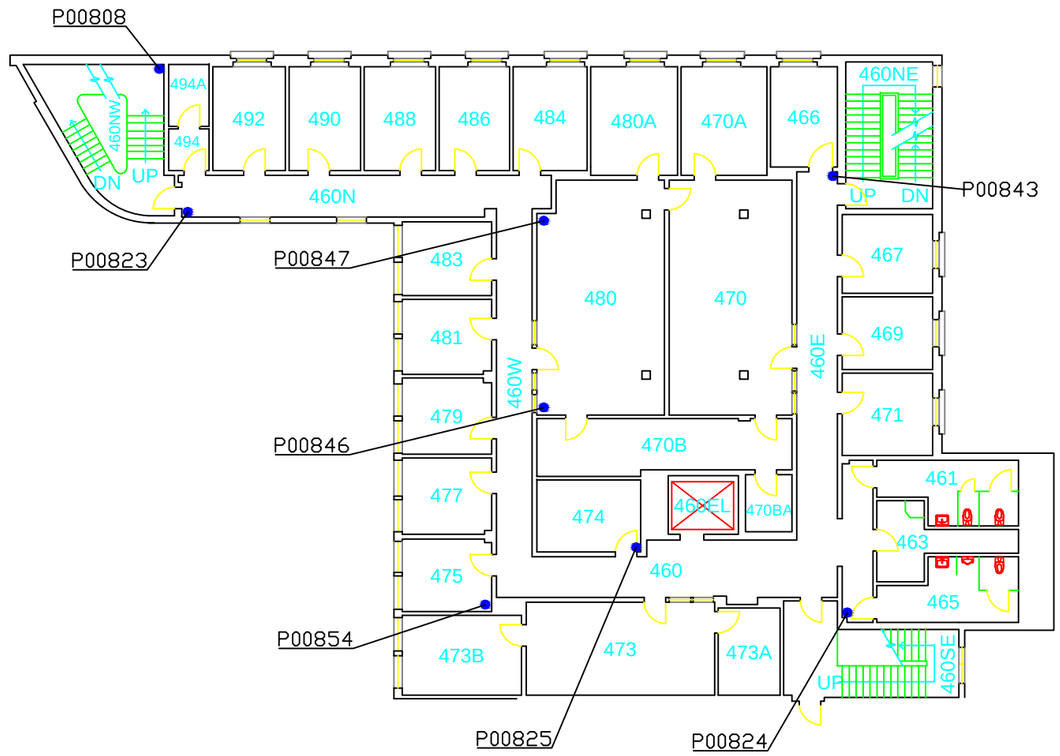
Legend

Asbestos Bulk Sample Location

P00###

Third Floor Plan

GROSS SQUARE FEET 7,599 BLDG. TOTAL: 40,255	**Washington State University** **Environmental Health & Safety**	**Todd Hall Addition** **Figure □- Sample Locations**	NORTH	BLDG. NO. **55A** FIGURE NO. **Figure □**



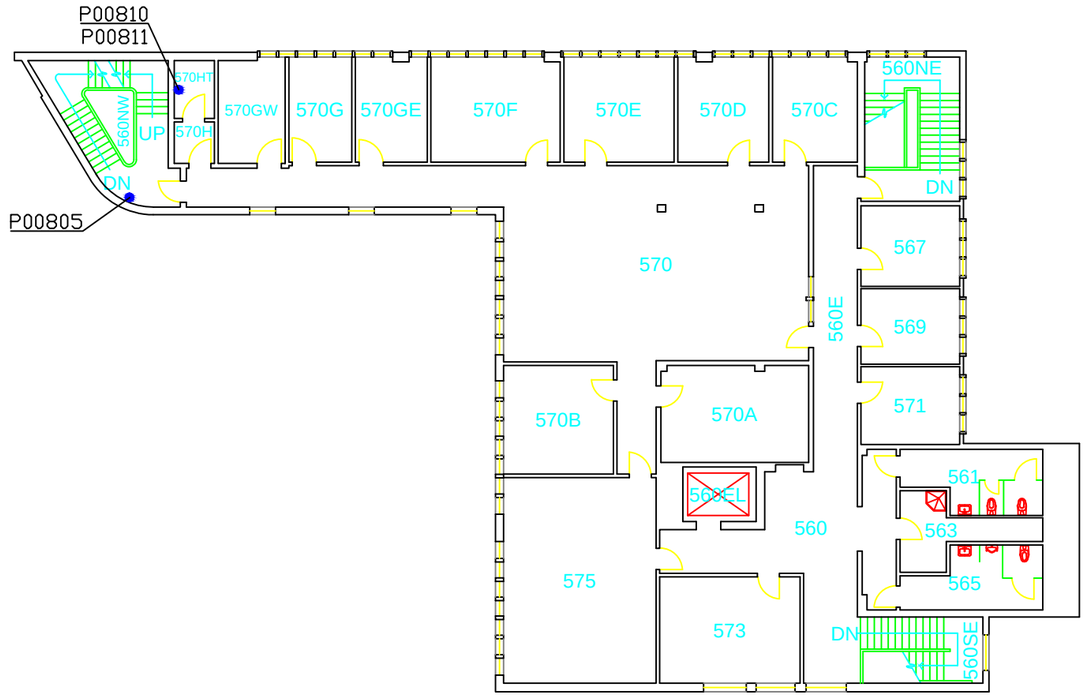
Legend

Asbestos Bulk Sample Location

P00###

Fourth Floor Plan

GROSS SQUARE FEET					
7,557	Washington State University	Todd Hall Addition	NORTH	WASHINGTON STATE UNIVERSITY	BLDG. NO.
BLDG. TOTAL: 40,255	Environmental Health & Safety	Figure □- Sample Locations			55A
					FIGURE NO. Figure □



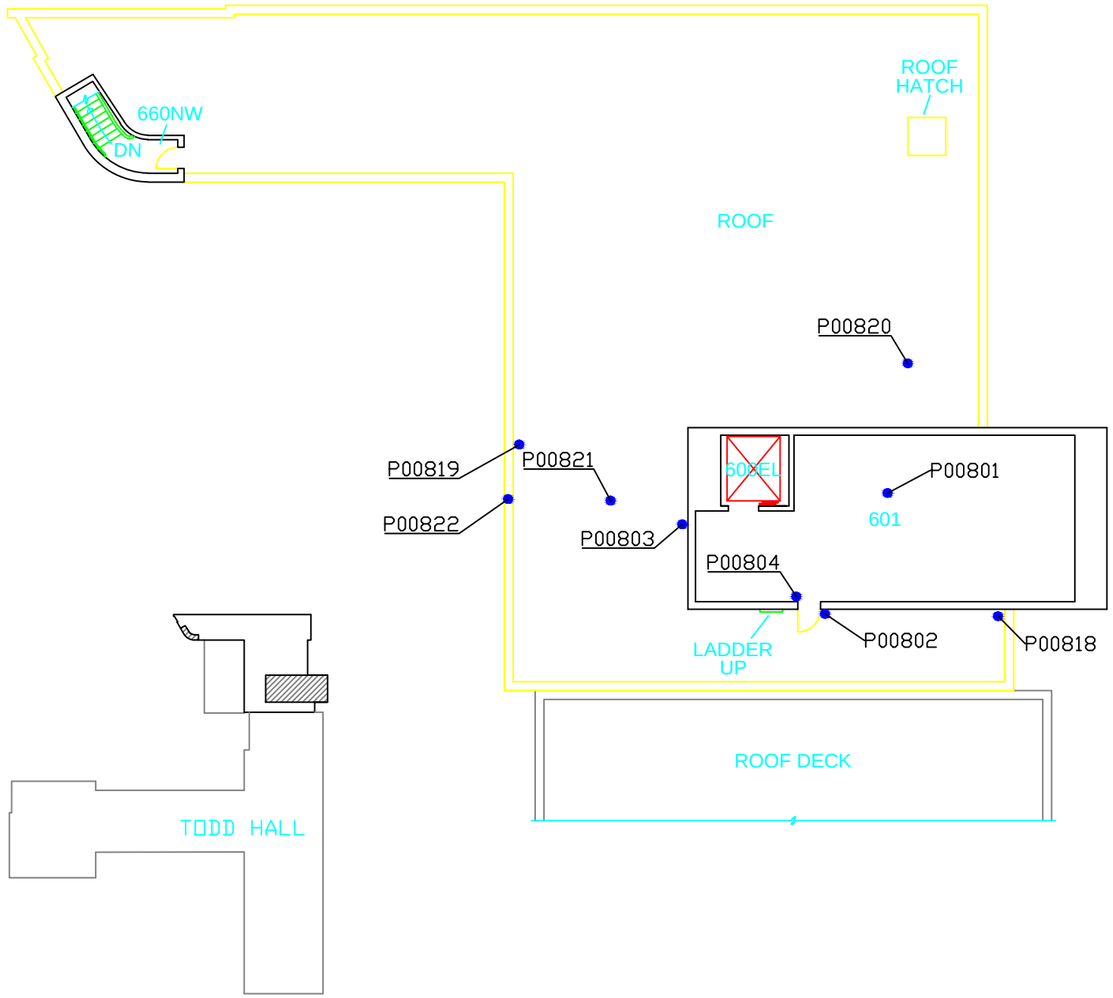
Legend

Asbestos Bulk Sample Location

P00###

Fifth Floor Plan

GROSS SQUARE FEET 6,827 BLDG. TOTAL: 40,255	**Washington State University Environmental Health & Safety**	**Todd Hall Addition** **Figure 5- Sample Locations**	NORTH	WASHINGTON STATE UNIVERSITY	BLDG. NO. **55A** FIGURE NO. **Figure 5**



Legend

Asbestos Bulk Sample Location

P00###

Mechanical Penthouse Floor Plan

GROSS SQUARE FEET 1,460 BLDG. TOTAL: 40,255	**Washington State University** **Environmental Health & Safety**	**Todd Hall Addition** **Figure 6- Sample Locations**	NORTH	WASHINGTON STATE UNIVERSITY	BLDG. NO. **55A** FIGURE NO. **Figure 6**

TABLES

TABLE 1
SUMMARY OF ASBESTOS SAMPLING AND ANALYTICAL RESULTS
TODD HALL

Sample #	Building Name	Building #	Sample Location	Material	Material Description/color	Type	Location Quantity	Quantity Descriptor	Comments	Sample Results	ACM?	Homogenous Material Location
P00801	Todd Hall Addition	0055A	601	Duct gasket putty	White duct gasket putty	Misc.	-	-	-	NAD	No	Room 601
P00802	Todd Hall Addition	0055A	601 Exterior	Door frame putty	White door frame putty	Misc.	-	-	-	NAD	No	Exterior door frames throughout
P00803	Todd Hall Addition	0055A	601 Exterior	Brick	Red brick and mortar	Misc.	-	-	-	NAD	No	Exterior façade
P00804	Todd Hall Addition	0055A	601	Gypsum wallboard system	White gypsum wallboard/joint compound system	Misc.	-	-	-	NAD	No	Wallboard system in 601
P00805	Todd Hall Addition	0055A	560NW	Plaster wall	Gray plaster wall	Surf.	-	-	Sample 1 of 7	NAD	No	Stairwells, 260N and adjacent vestibules to 260N
P00806	Todd Hall Addition	0055A	160NE	Plaster wall	Gray plaster wall	Surf.	-	-	Sample 2 of 7	NAD	No	Stairwells, 260N and adjacent vestibules to 260N
P00807	Todd Hall Addition	0055A	360NE	Plaster wall	Gray plaster wall	Surf.	-	-	Sample 3 of 7	NAD	No	Stairwells, 260N and adjacent vestibules to 260N
P00808	Todd Hall Addition	0055A	460NW	Plaster wall	Gray plaster wall	Surf.	-	-	Sample 4 of 7	NAD	No	Stairwells, 260N and adjacent vestibules to 260N
P00809	Todd Hall Addition	0055A	N260VW Entry	Plaster wall	Gray plaster wall	Surf.	-	-	Sample 5 of 7	NAD	No	Stairwells, 260N and adjacent vestibules to 260N
P00810	Todd Hall Addition	0055A	570HT	Gypsum wallboard system	White texture coat on gypsum wallboard system	Surf.	-	-	Sample 1 of 9	NAD	No	Textured wallboard system throughout

Sample #	Building Name	Building #	Sample Location	Material	Material Description/color	Type	Location Quantity	Quantity Descriptor	Comments	Sample Results	ACM?	Homogenous Material Location
P00811	Todd Hall Addition	0055A	570HT	4" Vinyl cove base	Black 4" vinyl cove base with white mastic	Misc.	-	-	-	NAD	No	Throughout Todd Addition
P00812	Todd Hall Addition	0055A	260VW	Carpet mastic	Yellow carpet mastic	Misc.	-	-	-	NAD	No	260VW
P00813	Todd Hall Addition	0055A	276	4" Vinyl cove base	Black 4" vinyl cove base with white mastic	Misc.	-	-	-	NAD	No	Throughout Todd Addition
P00814	Todd Hall Addition	0055A	260B	Gypsum wallboard system	White texture coat on gypsum wallboard system	Surf.	-	-	Sample 2 of 9	NAD	No	Textured wallboard system throughout
P00815	Todd Hall Addition	0055A	378A	Gypsum wallboard system	White texture coat on gypsum wallboard system	Surf.	-	-	Sample 3 of 9	NAD	No	Textured wallboard system throughout
P00816	Todd Hall Addition	0055A	360S	Gypsum wallboard system	White texture coat on gypsum wallboard system	Surf.	-	-	Sample 4 of 9	NAD	No	Textured wallboard system throughout
P00817	Todd Hall Addition	0055A	360W	4" Vinyl cove base	Black 4" vinyl cove base with white mastic	Misc.	-	-	-	NAD	No	Throughout Todd Addition
P00818	Todd Hall Addition	0055A	Roof	Roof flashing	Silver coating rolled on roofing felts with black tar	Misc.	-	-	Sample 1 of 3	NAD	No	Roofing throughout
P00819	Todd Hall Addition	0055A	Roof	Roof flashing	Silver coating rolled on roofing felts with black tar	Misc.	-	-	Sample 2 of 3	NAD	No	Roofing throughout
P00820	Todd Hall Addition	0055A	Roof	Roof core	Silver coating rolled on roofing felts with black tar	Misc.	-	-	Sample 3 of 3	NAD	No	Roofing throughout
P00821	**Todd Hall Addition**	**0055A**	**Roof**	**Roofing tar**	**Black roofing tar with silver coat (patch material)**	**Misc.**	**100**	**SF**	**-**	**<1% CHR**	**Yes**	**Roofing throughout**

Sample #	Building Name	Building #	Sample Location	Material	Material Description/color	Type	Location Quantity	Quantity Descriptor	Comments	Sample Results	ACM?	Homogenous Material Location
P00822	Todd Hall Addition	0055A	Roof	Capstone caulk	Pink capstone caulk	Misc.	-	-	-	NAD	No	Roof capstone joints
P00823	Todd Hall Addition	0055A	460N	12" Vinyl floor tile	Tan 12" speckled vinyl floor tile with yellow mastic	Misc.	-	-	-	NAD	No	Throughout Todd Addition
P00824	Todd Hall Addition	0055A	460E	4" Vinyl cove base	Black 4" vinyl cove base with white mastic	Misc.	-	-	-	NAD	No	Throughout Todd Addition
P00825	Todd Hall Addition	0055A	474	Gypsum wallboard system	White texture coat on gypsum wallboard system	Surf.	-	-	Sample 5 of 9	NAD	No	Throughout Todd Addition
P00826	Todd Hall Addition	0055A	363	Gypsum wallboard system	White texture coat on gypsum wallboard system	Surf.	-	-	Sample 6 of 9	NAD	No	Throughout Todd Addition
P00827	Todd Hall Addition	0055A	363	Duct mastic	Gray duct mastic	Misc.	-	-	-	NAD	No	Ducts throughout Todd Addition
P00828	Todd Hall Addition	0055A	268N	Carpet mastic	Yellow carpet mastic	Misc.	-	-	-	NAD	No	268N/S
P00829	Todd Hall Addition	0055A	363	Backsplash mastic	Green backsplash mastic	Misc.	-	-	-	NAD	No	Behind white fiberglass backsplash of custodial sinks throughout
P00830	Todd Hall Addition	0055A	276D	Duct mastic	Green/orange duct mastic	Misc.	-	-	-	NAD	No	Ducts throughout Todd Addition
P00831	Todd Hall Addition	0055A		12" Vinyl floor tile	Tan 12" vinyl floor tile with yellow mastic	Misc.	-	-	-	NAD	No	Throughout Todd Addition
P00832	Todd Hall Addition	0055A	260N	2'x2' Suspended ceiling tile	White suspended ceiling tile with random pinhole pattern	Misc.	-	-	Sample 1 of 3	NAD	No	Throughout Todd Addition

Sample #	Building Name	Building #	Sample Location	Material	Material Description/color	Type	Location Quantity	Quantity Descriptor	Comments	Sample Results	ACM?	Homogenous Material Location
P00833	Todd Hall Addition	0055A	274	3/4" ceramic tile	Gray 3/4" ceramic tile with gray grout and white mastic	Misc.	-	-	-	NAD	No	Restrooms throughout Todd Addition
P00834	Todd Hall Addition	0055A	276	Carpet mastic	Yellow carpet mastic with gray leveling compound	Misc.	-	-	-	NAD	No	276
P00835	Todd Hall Addition	0055A	276C	Tectum wall panel with mastic	Tectum wall panel with yellow mastic	Misc.	-	-	-	NAD	No	276 and 276D
P00836	Todd Hall Addition	0055A	276D	Tectum wall panel with mastic	Tectum wall panel with yellow mastic	Misc.	-	-	-	NAD	No	277 and 276D
P00837	Todd Hall Addition	0055A	363	Mastic	Black mastic on batt insulation	Misc.	-	-	Mastic holding batt insulation to wallboard	NAD	No	Wet wall cavities throughout
P00838	Todd Hall Addition	0055A	276A	Gypsum wallboard system	White texture coat on gypsum wallboard system	Surf.	-	-	Sample 7 of 9	NAD	No	Throughout Todd Addition
P00839	Todd Hall Addition	0055A	276A	4" Vinyl cove base	Black 4" vinyl cove base with white mastic	Misc.	-	-	-	NAD	No	Throughout Todd Addition
P00840	Todd Hall Addition	0055A	260A	Gypsum wallboard system	White texture coat on gypsum wallboard system	Surf.	-	-	Sample 8 of 9	NAD	No	Throughout Todd Addition
P00841	Todd Hall Addition	0055A	276	2'x2' Suspended ceiling tile	White suspended ceiling tile with random pinhole pattern	Misc.	-	-	Sample 2 of 3	NAD	No	Throughout Todd Addition
P00842	Todd Hall Addition	0055A	260A	12" Vinyl floor tile	Gray 12" speckled vinyl floor tile with yellow mastic	Misc.	-	-	-	NAD	No	Throughout Todd Addition
P00843	Todd Hall Addition	0055A	460E	2'x2' Suspended ceiling tile	White suspended ceiling tile with random pinhole pattern	Misc.	-	-	Sample 3 of 3	NAD	No	Throughout Todd Addition

Sample #	Building Name	Building #	Sample Location	Material	Material Description/color	Type	Location Quantity	Quantity Descriptor	Comments	Sample Results	ACM?	Homogenous Material Location
P00844	Todd Hall Addition	0055A	470	12" Vinyl floor tile	Purple 12" mottled vinyl floor tile with yellow/red mastic	Misc.	-	-	-	NAD	No	470
P00845	Todd Hall Addition	0055A	470	4" Vinyl cove base	Tan 4" vinyl cove base with white mastic	Misc.	-	-	-	NAD	No	470, 480
P00846	Todd Hall Addition	0055A	480	12" Vinyl floor tile	Blue 12" mottled vinyl floor tile with yellow mastic	Misc.	-	-	-	NAD	No	480, 470B
P00847	Todd Hall Addition	0055A	480	Carpet mastic	Yellow carpet mastic	Misc.	-	-	-	NAD	No	480
P00848	Todd Hall Addition	0055A	368	4" Vinyl cove base	Dark brown 4" vinyl cove base with white mastic	Misc.	-	-	-	NAD	No	368 series
P00849	Todd Hall Addition	0055A	367	12" Vinyl floor tile	Blue 12" mottled vinyl floor tile with yellow mastic	Misc.	-	-	-	NAD	No	367
P00850	Todd Hall Addition	0055A	260B	12" Vinyl floor tile	Black 12" vinyl floor tile with yellow mastic	Misc.	-	-	-	NAD	No	Elevator entry in 260B
P00851	Todd Hall Addition	0055A	N260NW	Plaster wall	Gray plaster wall	Surf.	-	-	Sample 6 of 7	NAD	No	Stairwells, 260N and adjacent vestibules to 260N
P00852	Todd Hall Addition	0055A	260V	Plaster wall	Gray plaster wall	Surf.	-	-	Sample 7 of 7	NAD	No	Stairwells, 260N and adjacent vestibules to 260N
P00853	Todd Hall Addition	0055A	360	Gypsum wallboard system	White texture coat on gypsum wallboard system	Surf.	-	-	Sample 9 of 9	NAD	No	Throughout Todd Addition
P00854	Todd Hall Addition	0055A	475	12" Vinyl floor tile	Gray/Tan 12" speckled vinyl floor tile with yellow mastic	Misc.	-	-	-	NAD	No	Gray/tan 1Throughout Todd Addition

Sample #	Building Name	Building #	Sample Location	Material	Material Description/color	Type	Location Quantity	Quantity Descriptor	Comments	Sample Results	ACM?	Homogenous Material Location
P00855	Todd Hall Addition	0055A	161	Gypsum wallboard system	White gypsum wallboard/joint compound system	Misc.	-	-	-	NAD	No	Unfinished wallboard system in 161
P00856	**Todd Hall Addition**	**0055A**	**161**	**Mastic**	**Black mastic on concrete wall**	**Misc.**	**25**	**SF**	**Remnant mastic on wall from previous system**	**5% CHR**	**Yes**	**Room 161 at entrance to utility tunnel**
P00857	Todd Hall Addition	0055A	161	6" O.D. Flange Gasket	Green marble pattern 6" O.D. flange gasket	Misc.	-	-	-	NAD	No	Flange gaskets throughout

Notes:

CHR = Chrysotile asbestos
NAD = No Asbestos Detected
SF = Square Feet
O.D. = Outside Diameter
Misc. = Miscellaneous material
Surf. = Surfacing material
TSI = Thermal Systems Insulation
ACM = Asbestos-Containing Material
Bold = Sample contains asbestos

TABLE 2
SUMMARY OF LEAD PAINT SAMPLING
TODD HALL ADDITION

Reading #	Building Name	Building #	Sample Location (Room #)	Paint Color	Substrate	Component	Result (mg/cm^2)	Error (mg/cm^2)	Lead-Containing
01	Todd Hall Addition	0055A	260N	Beige	Gypsum wallboard	Wall	0.00	0.02	No
02	**Todd Hall Addition**	**0055A**	**274**	**Blue**	**Ceramic tile**	**Floor**	**0.02**	**0.02**	**Yes**
03	Todd Hall Addition	0055A	274	Gray	Gypsum wallboard	Wall	0.00	0.02	No
04	Todd Hall Addition	0055A	274	Brown	Metal	Door frame	0.00	0.02	No
05	Todd Hall Addition	0055A	278	White	Ceramic tile	Floor	0.00	0.02	No
06	Todd Hall Addition	0055A	276	Red/brown	Gypsum wallboard	Wall	0.00	0.02	No
07	Todd Hall Addition	0055A	276	White	Tectum wall panel	Wall	0.00	0.02	No
08	Todd Hall Addition	0055A	260	Beige	Gypsum wallboard	Wall	0.00	0.02	No
09	Todd Hall Addition	0055A	260	White	Gypsum wallboard	Soffit	0.00	0.02	No
10	Todd Hall Addition	0055A	265	Beige	Metal	Door Frame	0.00	0.02	No
11	Todd Hall Addition	0055A	260NE	Gray	Metal	Door	0.00	0.02	No
12	Todd Hall Addition	0055A	260NE	Gray	Plaster	Wall	0.00	0.02	No
13	Todd Hall Addition	0055A	360	Brown	Gypsum wallboard	Wall	0.00	0.02	No
14	Todd Hall Addition	0055A	360	White	Gypsum wallboard	Wall	0.00	0.02	No
15	**Todd Hall Addition**	**0055A**	**460E**	**Gray/black**	**Metal**	**Hand rail**	**0.30**	**0.05**	**Yes**
16	Todd Hall Addition	0055A	460SE	White	Gypsum wallboard	Wall	0.00	0.02	No
17	**Todd Hall Addition**	**0055A**	**460SE**	**Gray**	**Metal**	**Wall/door frame**	**0.01**	**0.02**	**Yes**
18	Todd Hall Addition	0055A	570	Gray	Gypsum wallboard	Wall	0.00	0.02	No
19	Todd Hall Addition	0055A	560	White	Gypsum wallboard	Wall	0.00	0.02	No
20	Todd Hall Addition	0055A	560	Black	Metal	Elevator door frame	0.00	0.02	No
21	Todd Hall Addition	0055A	470	Brown	Gypsum wallboard	Wall	0.00	0.02	No
22	Todd Hall Addition	0055A	470B	White	Gypsum wallboard	Wall	0.00	0.02	No
23	Todd Hall Addition	0055A	466	White	Gypsum wallboard	Wall	0.00	0.02	No
24	Todd Hall Addition	0055A	567	White	Gypsum wallboard	Wall	0.00	0.02	No
25	Todd Hall Addition	0055A	570HT	White	Gypsum wallboard	Wall	0.00	0.02	No
26	Todd Hall Addition	0055A	467	White	Gypsum wallboard	Wall	0.00	0.02	No
27	Todd Hall Addition	0055A	470B	White	Gypsum wallboard	Wall	0.00	0.02	No
28	Todd Hall Addition	0055A	371	White	Gypsum wallboard	Wall	0.00	0.02	No
29	Todd Hall Addition	0055A	368	Brown	Gypsum wallboard	Wall	0.00	0.02	No
30	Todd Hall Addition	0055A	384	White	Gypsum wallboard	Wall	0.00	0.02	No

Reading #	Building Name	Building #	Sample Location (Room #)	Paint Color	Substrate	Component	Result (mg/cm^2)	Error (mg/cm^2)	Lead-Containing
31	Todd Hall Addition	0055A	270	White	Gypsum wallboard	Wall	0.00	0.02	No
32	**Todd Hall Addition**	**0055A**	**270**	**Red**	**Ceramic tile**	**Floor**	**0.05**	**0.02**	**Yes**

Notes:

a) All results are reported in milligrams per cubic centimeter (mg/cm^2) by a x-ray fluorescence (XRF) analysis.
b) **Bold** type indicates samples that contain lead
c) GWB = Gypsum wallboard
d) < LOD = Below limit of detection using XRF

TABLE 3
SUMMARY OF HOMOGENEOUS AREAS

HSA	Sample #'s	Homogenous Material Description	Location(s)
1	P00810	Gypsum wallboard/joint compound system with texture coat (surfacing)	Throughout Todd Hall Addition
	P00814		
	P00815		
	P00816		
	P00825		
	P00826		
	P00838		
	P00853		
2	P00811	Black 4" vinyl cove base with white mastic	Throughout Todd Hall Addition
	P00813		
	P00817		
	P00824		
	P00839		
3	P00812	Yellow carpet mastic (under entry carpet)	Room 260VW
4	P00805	Gray plaster wall	Stairwells, 260N and adjacent vestibules to 260N
	P00806		
	P00807		
	P00808		
	P00809		
	P00851		
	P00852		
5	P00837	Black mastic on fiberglass batt insulation	363 and wall cavities
6	P00841	2'x2' Suspended ceiling tile with random pinhole pattern	Throughout Todd Hall Addition
	P00832		
	P00843		
7	P00823	12" Tan speckled vinyl floor tile with yellow mastic	Dominate floor tile throughout Todd Hall Addition
	P00831		
	P00854		
8	P00818	Roofing system: Silver coating on rolled on roofing felts with black tar	Roofing throughout
	P00819		
	P00820		
9	P00821	Black roofing cement patch	Patching cement at repairs on roof
10	P00822	Pink capstone caulk	Roof capstones
11	P00834	Yellow carpet mastic with gray leveling compound	276
12	P00833	Gray ¾" ceramic tile with gray grout and gray mastic	Restrooms throughout Todd Hall Addition
13	P00827	Gray duct mastic	Ducts throughout Todd Hall Addition
14	P00835	Tectum wall panel with yellow mastic	276 and 276D
	P00836		
15	P00842	Gray 12" Speckled vinyl floor tile with yellow mastic	Dominate floor tile throughout Todd Hall Addition
16	P00804	Unfinished gypsum wallboard/joint compound system	Room 601
	P00855		

HSA	Sample #'s	Homogenous Material Description	Location(s)
17	P00803	Red brick and mortar	Throughout exterior cladding
18	P00802	White door frame putty	Exterior door frames throughout
19	P00801	White duct gasket putty	Room 601
20	P00828	Yellow carpet mastic	Room 268N
21	P00829	Green backsplash mastic	Room 363
22	P00830	Green/orange duct mastic	Room 276D
23	P00844	Purple 12" mottled pattern vinyl floor tile with yellow/red mastic	Room 470
24	P00845	Tan 4" vinyl cove base with white mastic	Room 470
25	P00846 P00849	Blue 12" mottled pattern vinyl floor tile with yellow mastic	Room 367 and 480
26	P00847	Yellow carpet mastic	Room 480
27	P00848	Dark brown 4" vinyl cove base with white mastic	Room 368
28	P00850	Black 12" solid color vinyl floor tile with yellow mastic	260B, elevator entrance
29	P00856	Black mastic on concrete wall (remnant)	Mechanical room 161
30	P00857	Green marble pattern 6" O.D. flange gasket	Mechanical room 161
	P00858	Red ceramic tile with gray grout/thinset and white mastic	Room 270

APPENDIX A

Chain-of-Custody Forms and Laboratory Analytical Results

Environmental Hazards Services, L.L.C.
7469 Whitepine Rd
Richmond, VA 23237
Telephone: 800.347.4010

Asbestos Bulk Analysis Report

Report Number: 13-11-00695

Client: Washington State University - Pullman
P.O. BOX 641172
Pullman, WA 99164

Received Date: 11/06/2013
Analyzed Date: 11/08/2013
Reported Date: 11/11/2013

Project/Test Address: Todd Addition Full Building; Pullman, WA

Client Number: 49-3308

Fax Number: 509-335-4442

Laboratory Results

Lab Sample Number	Client Sample Number	Layer Type	Lab Gross Description	Asbestos	Other Materials
13-11-00695-001	P00801		Gray Adhesive; Homogeneous	NAD	4% Cellulose 96% Non-Fibrous
13-11-00695-002	P00802		Tan Adhesive; Homogeneous	NAD	100% Non-Fibrous
13-11-00695-003	P00803		Brown Granular; Homogeneous	NAD	100% Non-Fibrous
13-11-00695-004	P00804		White Powder; Brown Fibrous; White Granular; Inhomogeneous	NAD	20% Cellulose 80% Non-Fibrous
13-11-00695-005	P00805		Gray Granular; Homogeneous	NAD	3% Cellulose 97% Non-Fibrous

Environmental Hazards Services, L.L.C

Client Number: 49-3308 Report Number: 13-11-00695

Project/Test Address: Todd Addition Full Building; Pullman, WA

Lab Sample Number	Client Sample Number	Layer Type	Lab Gross Description	Asbestos	Other Materials
13-11-00695-006	P00806		Gray Granular; Homogeneous	NAD	3% Cellulose 97% Non-Fibrous
13-11-00695-007	P00807		Gray Granular; Homogeneous	NAD	3% Cellulose 97% Non-Fibrous
13-11-00695-008	P00808		Gray Granular; Homogeneous	NAD	3% Cellulose 97% Non-Fibrous
13-11-00695-009	P00809		Gray Granular; Homogeneous	NAD	3% Cellulose 97% Non-Fibrous
13-11-00695-010	P00810		White Powder; Brown Fibrous; White Granular; Inhomogeneous	NAD	20% Cellulose 80% Non-Fibrous
13-11-00695-011A	P00811	Cove Base	Black Vinyl; Homogeneous	NAD	100% Non-Fibrous
13-11-00695-011B	P00811	Mastic	Tan Adhesive; Homogeneous	NAD	2% Cellulose 98% Non-Fibrous
13-11-00695-012	P00812		Yellow/Black Adhesive; Inhomogeneous	NAD	3% Cellulose 97% Non-Fibrous

Environmental Hazards Services, L.L.C

Client Number: 49-3308 Report Number: 13-11-00695

Project/Test Address: Todd Addition Full Building; Pullman, WA

Lab Sample Number	Client Sample Number	Layer Type	Lab Gross Description	Asbestos	Other Materials
13-11-00695-013	P00813		Tan Adhesive; Homogeneous	NAD	1% Cellulose 99% Non-Fibrous
13-11-00695-014	P00814		White Powder; Brown Fibrous; White Paint-Like; Inhomogeneous	NAD	20% Cellulose 80% Non-Fibrous
13-11-00695-015	P00815		White Powder; Brown Fibrous; White Paint-Like; Inhomogeneous	NAD	20% Cellulose 80% Non-Fibrous
13-11-00695-016	P00816		White Powder; Brown Fibrous; White Paint-Like; Inhomogeneous	NAD	20% Cellulose 1% Fibrous Glass 79% Non-Fibrous
13-11-00695-017	P00817		Tan Adhesive; Homogeneous	NAD	1% Cellulose 99% Non-Fibrous

Environmental Hazards Services, L.L.C

Client Number: 49-3308 Report Number: 13-11-00695

Project/Test Address: Todd Addition Full Building; Pullman, WA

Lab Sample Number	Client Sample Number	Layer Type	Lab Gross Description	Asbestos	Other Materials

QC Sample: 20-M11990-4

QC Blank: SRM 1866 Fiberglass

Reporting Limit: 1% Asbestos

Method: EPA Method 600/R-93/116, EPA Method 600/M4-82-020

Analyst: Christian H. Schaible

Reviewed By Authorized Signatory: Tasha Eaddy

Tasha Eaddy
QA/QC Clerk

The condition of the samples analyzed was acceptable upon receipt per laboratory protocol unless otherwise noted on this report. Each distinct component in an inhomogeneous sample was analyzed separately and reported as a composite. Results represent the analysis of samples submitted by the client. Sample location, description, area, volume, etc., was provided by the client. This report cannot be used by the client to claim product endorsement by NVLAP or any agency of the U.S. Government. This report shall not be reproduced except in full, without the written consent of the Environmental Hazards Service, L.L.C. California Certification #2319 NY ELAP #11714 NVLAP #101882-0. All information concerning sampling location, date, and time can be found on Chain-of-Custody. Environmental Hazards Services, L.L.C. does not perform any sample collection.

Environmental Hazards Services, L.L.C. recommends reanalysis by point count (for more accurate quantification) or Transmission Electron Microscopy (TEM), (for enhanced detection capabilities) for materials regulated by EPA NESHAP (National Emission Standards for Hazardous Air Pollutants) and found to contain less than ten percent (<10%) asbestos by polarized light microscopy (PLM). Both services are available for an additional fee.

400 Point Count Analysis, where noted, performed per EPA Method 600/R-93/116 with a Reporting Limit of 0.25%.

* All California samples analyzed by Polarized Light Microscopy, EPA Method 600/M4-82-020, Dec. 1982.

LEGEND: NAD = no asbestos detected

17 PLM

Attachment E: Todd Hall Addition Good Faith Hazardous Material Survey

EHS Laboratories™

Environmental Hazards Services, LLC

www.leadlab.com
(800)347-4010
(804)275-4907 (fax)

7469 Whitepine Rd
Richmond, VA
23237

Asbestos Chain-of-Custody

13-11-00695

Due Date:
11/11/2013
(Monday)
AE M

Company Name: Washington State University Health and Safety Address: P.O. Box 641172 City/State/Zip: Pullman, WA 99164

Phone: (509) 335-5604 Fax: ( ) E-mail: WSU List Acct. Number: 49-3308 D

Project Name / Testing Address: Todd Addition Full Building City/State (Required): Pullman, WA

Collected by: Matthew McKibbin Purchase Order Number: 7406-2012

Turn Around Times : *If no TAT is specified, sample(s) will be processed and charged as 3-day TAT.*

_____ 1 - Day _____ 2 - Day __X__ 3 - Day _____ Same Day (Must Call Ahead) _____ Weekend (Must Call Ahead)

No.	Client Sample ID	Date Collected	ASBESTOS							AIR					COMMENTS
			PLM	PLM Point Count 400	PLM Point Count 1000	PLM NY Protocol	PCM	TEM Chatfield (Bulk)	TEM AHERA (Air)	Time On	Time Off	Flow Rate (L/min)	Total Time (minutes)	Volume (Total Liters)	
1	P00801	11-1-13	✓												
2	P00802	"	✓												
3	P00803	"	✓												
4	P00804	"	✓												
5	P00805	"	✓												
6	P00806	"	✓												
7	P00807	"	✓												
8	P00808	"	✓												
9	P00809	"	✓												
10	P00810	"	✓												

Released by: Matt McKibbin Signature: [signature] Date/Time: 11/4/13 1800

Received by: T Hummel Signature: [signature] Date/Time: 11/6/13

Attachment E: Todd Hall Addition Good Faith Hazardous Material Survey

EHS Laboratories™

Asbestos Chain-of-Custody

~ For Lab Use Only ~

Environmental Hazards Services, LLC

www.leadlab.com
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7469 Whitepine Rd
Richmond, VA
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Company Name: Washington State University Health and Safety Address: P.O. Box 641172 City/State/Zip: Pullman, WA 99164

Phone: (509) 335-5604 Fax: ( ) E-mail: WSU List Acct. Number: 49-3308 D

Project Name / Testing Address: Todd Addition Full Building City/State (Required): Pullman, WA

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Turn Around Times : *If no TAT is specified, sample(s) will be processed and charged as 3-day TAT.*

_____ 1 - Day _____ 2 - Day _____ 3 - Day _____ Same Day (Must Call Ahead) _____ Weekend (Must Call Ahead)

No.	Client Sample ID	Date Collected	ASBESTOS							AIR					COMMENTS
			PLM	PLM Point Count 400	PLM Point Count 1000	PLM NY Protocol	PCM	TEM Chatfield (Bulk)	TEM AHERA (Air)	Time On	Time Off	Flow Rate (L/min)	Total Time (minutes)	Volume (Total Liters)	
1	P00811		✓												
2	P00812		✓												
3	P00813		✓												
4	P00814		✓												
5	P00815		✓												
6	P00816		✓												
7	P00817		✓												
8			✓												
9			✓												
10			✓												

Released by: Matt McKibbin Signature: Date/Time: 11/4/13 1800

Received by: T Hamrick Signature: Date/Time: 11/6/13

Environmental Hazards Services, L.L.C.
7469 Whitepine Rd
Richmond, VA 23237
Telephone: 800.347.4010

Asbestos Bulk Analysis Report

Report Number: 13-11-01682

Client: Washington State University - Pullman
P.O. BOX 641172
Pullman, WA 99164

Received Date: 11/14/2013
Analyzed Date: 11/19/2013
Reported Date: 11/19/2013

Project/Test Address: Todd Addition Full Building Survey; Pullman, WA

Client Number: 49-3308

Fax Number: 509-335-4442

Laboratory Results

Lab Sample Number	Client Sample Number	Layer Type	Lab Gross Description	Asbestos	Other Materials
13-11-01682-001A	P00818	Silver Paint	Silver Paint-Like; Homogeneous	NAD	100% Non-Fibrous
13-11-01682-001B	P00818	Tar	Black Tar-Like; Homogeneous	NAD	3% Synthetic 97% Non-Fibrous
13-11-01682-001C	P00818	Felt	Black Tar-Like; Homogeneous	NAD	2% Cellulose 10% Fibrous Glass 88% Non-Fibrous
13-11-01682-002A	P00819	Silver Paint	Silver Paint-Like; Homogeneous	NAD	100% Non-Fibrous
13-11-01682-002B	P00819	Tar	Black Tar-Like; Homogeneous	NAD	5% Synthetic 95% Non-Fibrous

Environmental Hazards Services, L.L.C

Client Number: 49-3308 Report Number: 13-11-01682

Project/Test Address: Todd Addition Full Building Survey; Pullman, WA

Lab Sample Number	Client Sample Number	Layer Type	Lab Gross Description	Asbestos	Other Materials
13-11-01682-003A	P00820	Silver Paint	Silver Paint-Like; Homogeneous	NAD	100% Non-Fibrous
13-11-01682-003B	P00820	Tar	Black Tar-Like; Homogeneous	NAD	10% Synthetic 90% Non-Fibrous
13-11-01682-003C	P00820	Insulation	Black Tar-Like; Tan Fibrous; Inhomogeneous	NAD	25% Cellulose 10% Fibrous Glass 65% Non-Fibrous
13-11-01682-004A	P00821	Silver Paint	Silver Paint-Like; Homogeneous	NAD	100% Non-Fibrous
13-11-01682-004B	P00821	Roofing	Black Tar-Like; Homogeneous	Trace <1% Chrysotile	15% Cellulose 85% Non-Fibrous
			Total Asbestos:	Trace <1%	
13-11-01682-005	P00822		Pink Rubbery; Homogeneous	NAD	100% Non-Fibrous
13-11-01682-006A	P00823	Tile	Tan Vinyl; Homogeneous	NAD	2% Cellulose 98% Non-Fibrous
13-11-01682-006B	P00823	Mastic	Yellow Adhesive; Homogeneous	NAD	100% Non-Fibrous

Environmental Hazards Services, L.L.C

Client Number: 49-3308 Report Number: 13-11-01682

Project/Test Address: Todd Addition Full Building Survey;
Pullman, WA

Lab Sample Number	Client Sample Number	Layer Type	Lab Gross Description	Asbestos	Other Materials
13-11-01682-007A	P00824	Cove Base	Black Vinyl; Homogeneous	NAD	100% Non-Fibrous
13-11-01682-007B	P00824	Mastic	White Adhesive; Homogeneous	NAD	100% Non-Fibrous
13-11-01682-007C	P00824	Joint Comp.	White Granular; Homogeneous	NAD	100% Non-Fibrous
13-11-01682-008	P00825		Tan Chalky; White Granular; Brown Fibrous; Inhomogeneous	NAD	30% Cellulose 3% Fibrous Glass 67% Non-Fibrous
13-11-01682-009	P00826		Tan Chalky; White Granular; Brown Fibrous; Inhomogeneous	NAD	30% Cellulose 3% Fibrous Glass 67% Non-Fibrous
13-11-01682-010	P00827		Gray Adhesive; Homogeneous	NAD	100% Non-Fibrous
13-11-01682-011	P00828		Yellow Adhesive; Homogeneous	NAD	100% Non-Fibrous
13-11-01682-012	P00829		Green Adhesive; Homogeneous	NAD	100% Non-Fibrous

Environmental Hazards Services, L.L.C

Client Number: 49-3308 Report Number: 13-11-01682

Project/Test Address: Todd Addition Full Building Survey; Pullman, WA

Lab Sample Number	Client Sample Number	Layer Type	Lab Gross Description	Asbestos	Other Materials
13-11-01682-013	P00830		Green/Orange Adhesive; Homogeneous	NAD	100% Non-Fibrous
13-11-01682-014A	P00831	Tile	Tan Vinyl; Homogeneous	NAD	2% Cellulose 98% Non-Fibrous
13-11-01682-014B	P00831	Mastic	Yellow Adhesive; Homogeneous	NAD	100% Non-Fibrous
13-11-01682-015	P00832		White Paint-Like; Gray Fibrous; Inhomogeneous	NAD	55% Cellulose 25% Fibrous Glass 20% Non-Fibrous
13-11-01682-016A	P00833	Ceramic Tile	Gray Hard; Homogeneous	NAD	100% Non-Fibrous
13-11-01682-016B	P00833	Grout	Gray Granular; Homogeneous	NAD	100% Non-Fibrous
13-11-01682-016C	P00833	Mastic	White Adhesive; Homogeneous	NAD	100% Non-Fibrous
13-11-01682-016D	P00833	Leveling Comp.	White Granular; Homogeneous	NAD	100% Non-Fibrous

Environmental Hazards Services, L.L.C

Client Number: 49-3308 Report Number: 13-11-01682

Project/Test Address: Todd Addition Full Building Survey;
Pullman, WA

Lab Sample Number	Client Sample Number	Layer Type	Lab Gross Description	Asbestos	Other Materials
13-11-01682-017A	P00834	Mastic	Yellow Adhesive; Homogeneous	NAD	100% Non-Fibrous
13-11-01682-017B	P00834	Leveling Comp.	Gray Granular; Homogeneous	NAD	5% Cellulose 95% Non-Fibrous
13-11-01682-018A	P00835	Texture	White Granular; Homogeneous	NAD	15% Cellulose 85% Non-Fibrous
13-11-01682-018B	P00835	Mastic	Yellow Adhesive; Homogeneous	NAD	100% Non-Fibrous
13-11-01682-019A	P00836	Texture	White Granular; Homogeneous	NAD	15% Cellulose 85% Non-Fibrous
13-11-01682-019B	P00836	Mastic	Yellow Adhesive; Homogeneous	NAD	100% Non-Fibrous
13-11-01682-020	P00837		Black Adhesive; Homogeneous	NAD	100% Non-Fibrous
13-11-01682-021	P00838		Tan Chalky; White Granular; Brown Fibrous; Inhomogeneous	NAD	25% Cellulose 3% Fibrous Glass 72% Non-Fibrous

Environmental Hazards Services, L.L.C

Client Number: 49-3308 Report Number: 13-11-01682

Project/Test Address: Todd Addition Full Building Survey;
Pullman, WA

Lab Sample Number	Client Sample Number	Layer Type	Lab Gross Description	Asbestos	Other Materials
13-11-01682-022A	P00839	Cove Base	Black Vinyl; Homogeneous	NAD	100% Non-Fibrous
13-11-01682-022B	P00839	Mastic	White Adhesive; Homogeneous	NAD	100% Non-Fibrous
13-11-01682-023	P00840		Tan Chalky; White Granular; Brown Fibrous; Inhomogeneous	NAD	30% Cellulose 3% Fibrous Glass 67% Non-Fibrous
13-11-01682-024	P00841		White Paint-Like; Gray Fibrous; Inhomogeneous	NAD	55% Cellulose 25% Fibrous Glass 20% Non-Fibrous
13-11-01682-025A	P00842	Tile	Gray Vinyl; Homogeneous	NAD	2% Cellulose 98% Non-Fibrous
13-11-01682-025B	P00842	Mastic	Yellow Adhesive; Homogeneous	NAD	100% Non-Fibrous
13-11-01682-026	P00843		White Paint-Like; Gray Fibrous; Inhomogeneous	NAD	55% Cellulose 25% Fibrous Glass 20% Non-Fibrous
13-11-01682-027A	P00844	Tile	Purple Vinyl; Homogeneous	NAD	100% Non-Fibrous

Environmental Hazards Services, L.L.C

Client Number: 49-3308 Report Number: 13-11-01682

Project/Test Address: Todd Addition Full Building Survey;
Pullman, WA

Lab Sample Number	Client Sample Number	Layer Type	Lab Gross Description	Asbestos	Other Materials
13-11-01682-027B	P00844	Mastic	Yellow Adhesive; Homogeneous	NAD	100% Non-Fibrous
13-11-01682-028	P00845		White Adhesive; Homogeneous	NAD	100% Non-Fibrous
13-11-01682-029	P00846		Gray Vinyl; Homogeneous	NAD	100% Non-Fibrous
No mastic present.					
13-11-01682-030	P00847		Yellow Adhesive; Homogeneous	NAD	100% Non-Fibrous
13-11-01682-031	P00848		White Adhesive; Homogeneous	NAD	100% Non-Fibrous
13-11-01682-032	P00849		Gray Vinyl; Homogeneous	NAD	100% Non-Fibrous
No mastic present.					
13-11-01682-033A	P00850	Tile	Black Vinyl; Homogeneous	NAD	2% Cellulose 98% Non-Fibrous
13-11-01682-033B	P00850	Mastic	Yellow Adhesive; Homogeneous	NAD	100% Non-Fibrous

Environmental Hazards Services, L.L.C

Client Number: 49-3308 Report Number: 13-11-01682

Project/Test Address: Todd Addition Full Building Survey; Pullman, WA

Lab Sample Number	Client Sample Number	Layer Type	Lab Gross Description	Asbestos	Other Materials
13-11-01682-033C	P00850	Leveling Comp.	White Chalky; Homogeneous	NAD	2% Cellulose 98% Non-Fibrous
13-11-01682-034	P00851		Gray Paint-Like; Granular; Inhomogeneous	NAD	1% Cellulose 99% Non-Fibrous
13-11-01682-035	P00852		Gray Paint-Like; Granular; Inhomogeneous	NAD	1% Cellulose 99% Non-Fibrous
13-11-01682-036	P00853		White Chalky; Brittle Brown Fibrous; Inhomogeneous	NAD	25% Cellulose 5% Fibrous Glass 70% Non-Fibrous
13-11-01682-037A	P00854	Tile	Gray Vinyl; Homogeneous	NAD	2% Cellulose 98% Non-Fibrous
13-11-01682-037B	P00854	Mastic	Yellow Adhesive; Homogeneous	NAD	100% Non-Fibrous
13-11-01682-038	P00855		White Chalky; Granular; Brown Fibrous; Inhomogeneous	NAD	30% Cellulose 5% Fibrous Glass 65% Non-Fibrous
13-11-01682-039A	P00856	Tar	Black Tar-Like; Homogeneous	5% Chrysotile	95% Non-Fibrous
			Total Asbestos:	5%	

Environmental Hazards Services, L.L.C

Client Number: 49-3308 Report Number: 13-11-01682

Project/Test Address: Todd Addition Full Building Survey;
Pullman, WA

Lab Sample Number	Client Sample Number	Layer Type	Lab Gross Description	Asbestos	Other Materials
13-11-01682-039B	P00856	Concrete	Tan Cementitious; Homogeneous	NAD	100% Non-Fibrous
13-11-01682-040	P00857		Green Fibrous; Homogeneous	NAD	55% Synthetic 45% Non-Fibrous
13-11-01682-041A	P00858	Ceramic Tile	Tan Cementitious; Homogeneous	NAD	100% Non-Fibrous
13-11-01682-041B	P00858	Grout	Gray Granular; Homogeneous	NAD	2% Cellulose 98% Non-Fibrous
13-11-01682-041C	P00858	Mastic	Yellow Adhesive; Homogeneous	NAD	100% Non-Fibrous

Environmental Hazards Services, L.L.C

Client Number: 49-3308 Report Number: 13-11-01682

Project/Test Address: Todd Addition Full Building Survey;
Pullman, WA

Lab Sample Number	Client Sample Number	Layer Type	Lab Gross Description	Asbestos	Other Materials

QC Sample: 7-M1-1991-3

QC Blank: SRM 1866 Fiberglass

Reporting Limit: 1% Asbestos

Method: EPA Method 600/R-93/116, EPA Method 600/M4-82-020

Analyst: Sami Hosn

Reviewed By Authorized Signatory: Tasha Eaddy

Tasha Eaddy
QA/QC Clerk

The condition of the samples analyzed was acceptable upon receipt per laboratory protocol unless otherwise noted on this report. Each distinct component in an inhomogeneous sample was analyzed separately and reported as a composite. Results represent the analysis of samples submitted by the client. Sample location, description, area, volume, etc., was provided by the client. This report cannot be used by the client to claim product endorsement by NVLAP or any agency of the U.S. Government. This report shall not be reproduced except in full, without the written consent of the Environmental Hazards Service, L.L.C. California Certification #2319 NY ELAP #11714 NVLAP #101882-0. All information concerning sampling location, date, and time can be found on Chain-of-Custody. Environmental Hazards Services, L.L.C. does not perform any sample collection.

Environmental Hazards Services, L.L.C. recommends reanalysis by point count (for more accurate quantification) or Transmission Electron Microscopy (TEM), (for enhanced detection capabilities) for materials regulated by EPA NESHAP (National Emission Standards for Hazardous Air Pollutants) and found to contain less than ten percent (<10%) asbestos by polarized light microscopy (PLM). Both services are available for an additional fee.

400 Point Count Analysis, where noted, performed per EPA Method 600/R-93/116 with a Reporting Limit of 0.25%.

* All California samples analyzed by Polarized Light Microscopy, EPA Method 600/M4-82-020, Dec. 1982.

LEGEND: NAD = no asbestos detected

40 PLM

Asbestos Chain-of-Custody

EHS Laboratories™

Environmental Hazards Services, LLC

www.leadlab.com
(800)347-4010
(804)275-4907 (fax)

7469 Whitepine Rd
Richmond, VA
23237

13-11-01682

Due Date:
11/19/2013
(Tuesday)
AE M

Company Name: Washington State University Health and Safety Address: P.O. Box 641172 City/State/Zip: Pullman, WA 99164

Phone: (509) 335-5604 Fax: ( ) E-mail: WSU List Acct. Number: 49-3308 D

Project Name / Testing Address: Todd Addition Full Building Survey **City/State (Required):** Pullman, WA

Collected by: Matthew McKibbin Purchase Order Number: 7406-2012

Attachment E: Todd Hall Addition Good Faith Hazardous Material Survey

Turn Around Times : *If no TAT is specified, sample(s) will be processed and charged as 3-day TAT.*

____ 1 - Day ____ 2 - Day ✓ 3 - Day ____ Same Day (Must Call Ahead) ____ Weekend (Must Call Ahead)

No.	Client Sample ID	Date Collected	ASBESTOS							AIR					COMMENTS
			PLM	PLM Point Count 400	PLM Point Count 1000	PLM NY Protocol	PCM	TEM Chatfield (Bulk)	TEM AHERA (Air)	Time On	Time Off	Flow Rate (L/min)	Total Time (minutes)	Volume (Total Liters)	
1	P00818	11/12/13	✓												41 Samples
2			✓												See Data Sheet
3			✓												
4			✓												
5			✓												
6			✓												
7			✓												
8			✓												
9			✓												
10	P00858		✓												

Released by: Matthew McKibbin Signature: [signature] Date/Time: 11/13/13 1200

Received by: J Thomas Signature: [signature] Date/Time: 11/14/13

APPENDIX B

Laboratory Accreditations and Certificates

Attachment E: Todd Hall Addition Good Faith Hazardous Material Survey

United States Department of Commerce
National Institute of Standards and Technology

Certificate of Accreditation to ISO/IEC 17025:2005

NVLAP LAB CODE: 101882-0

Environmental Hazards Services, L.L.C.

Richmond, VA

is accredited by the National Voluntary Laboratory Accreditation Program for specific services, listed on the Scope of Accreditation, for:

BULK ASBESTOS FIBER ANALYSIS

This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2005. This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory quality management system (refer to joint ISO-ILAC-IAF Communique dated January 2009).

2013-01-01 through 2013-12-31

Effective dates

DEPARTMENT OF COMMERCE ★ UNITED STATES OF AMERICA ★

For the National Institute of Standards and Technology

National Voluntary Laboratory Accreditation Program

SCOPE OF ACCREDITATION TO ISO/IEC 17025:2005

Environmental Hazards Services, L.L.C.
7469 White Pine Road
Richmond, VA 23237-2261
Ms. Julie Dickerson
Phone: 804-275-4788 Fax: 804-275-4907
E-Mail: jdickerson@leadlab.com
URL: http://www.leadlab.com

BULK ASBESTOS FIBER ANALYSIS (PLM) **NVLAP LAB CODE 101882-0**

NVLAP Code	*Designation / Description*
18/A01	EPA 600/M4-82-020: Interim Method for the Determination of Asbestos in Bulk Insulation Samples

2013-01-01 through 2013-12-31

Effective dates

For the National Institute of Standards and Technology

STATE OF WASHINGTON
DEPARTMENT OF ECOLOGY
PO Box 488 • Manchester, WA 98353-0488 • (360) 895-6144

June 17, 2013

Ms.Julie Dickerson
Environmental Hazards Services LLC
7469 Whitepine Rd
Richmond, VA 23237

Dear Ms. Dickerson:

Thank you for your application for renewal in the Environmental Laboratory Accreditation Program. Enclosed is a new Certificate of Accreditation covering the one-year period beginning June 30, 2013 and a current Scope of Accreditation.

Based on your laboratory's two most recent sets of PT Study results, full accreditation is warranted for all applicable parameters. As a reminder, continued participation in the Ecology Lab Accreditation Program requires the lab to:

- Submit a renewal application and fees annually
- Report significant changes in facility, personnel, analytical methods, equipment, the lab's quality assurance (QA) manual or QA procedures as they occur
- **Participate in proficiency testing studies semi-annually, with the following exception: For each parameter where all PT results were satisfactory, you are required to submit only one PT result over this next year, and in subsequent years, as long as the results are satisfactory.** (This new allowance went into effect on September 9, 2010.) **Note that annual PTs are now required for microbiology methods in Non-Potable water.**
- Submit copies of current third-party Scopes of Accreditation when they are available.

If you have any questions concerning the accreditation of your lab, please contact Dennis Julvezan at (360) 895-6147, fax (360) 895-6180, or by e-mail at djul461@ecy.wa.gov.

Sincerely,

Alan D. Rue
Lab Accreditation Unit Supervisor

AR:DJ:dj
Enclosures

The State of Washington Department of Ecology

Environmental Hazards Services LLC
Richmond, VA

has complied with provisions set forth in Chapter 173-50 WAC and is hereby recognized by the Department of Ecology as an ACCREDITED LABORATORY for the analytical parameters listed on the accompanying Scope of Accreditation. This certificate is effective June 30, 2013 and shall expire June 29, 2014.

Witnessed under my hand on June 17, 2013

Alan D. Rue
Lab Accreditation Unit Supervisor

Laboratory ID
C960

WASHINGTON STATE DEPARTMENT OF ECOLOGY

ENVIRONMENTAL LABORATORY ACCREDITATION PROGRAM

SCOPE OF ACCREDITATION

Environmental Hazards Services LLC

Richmond, VA

is accredited for the analytes listed below using the methods indicated. Full accreditation is granted unless stated otherwise in a note. Accreditation for U.S. Environmental Protection Agency (EPA) "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods" (SW-846) is for the latest version of the method. SM refers to EPA approved editions of “Standard Methods for the Examination of Water and Wastewater.” ASTM is the American Society for Testing and Materials. Other references are described in notes.

Matrix/Analyte	Method	Notes
Solid and Chemical Materials		
Aluminum	EPA 6010C_(2/07)	1
Antimony	EPA 6010C_(2/07)	1
Arsenic	EPA 6010C_(2/07)	1
Barium	EPA 6010C_(2/07)	1
Beryllium	EPA 6010C_(2/07)	1
Cadmium	EPA 6010C_(2/07)	1
Chromium	EPA 6010C_(2/07)	1
Cobalt	EPA 6010C_(2/07)	1
Copper	EPA 6010C_(2/07)	1
Iron	EPA 6010C_(2/07)	1
Lead	EPA 6010C_(2/07)	1
Magnesium	EPA 6010C_(2/07)	1
Manganese	EPA 6010C_(2/07)	1
Molybdenum	EPA 6010C_(2/07)	1
Selenium	EPA 6010C_(2/07)	1
Silver	EPA 6010C_(2/07)	1
Thallium	EPA 6010C_(2/07)	1
Titanium	EPA 6010C_(2/07)	1
Vanadium	EPA 6010C_(2/07)	1
Zinc	EPA 6010C_(2/07)	1
Lead	EPA 7000B (2007)	1
Mercury	EPA 7471B_(1/98)	1

Environmental Hazards Services LLC

Matrix/Analyte	Method	Notes
Asbestos	EPA 600/R-93-116	1

Accredited Parameter Note Detail

(1) Accreditation is based in part on recognition of New York NELAP accreditation.



06/17/2013

Authentication Signature
Alan D. Rue, Lab Accreditation Unit Supervisor

Date

Parameters Not Accredited

Environmental Hazards Services LLC

Richmond, VA

Analyte	Method	Notes	Matrix
Nickel	EPA 6010C_(2/07)	a	S

Denied Parameter Accreditation Footnotes

(a) Withdrawn at laboratory request.

Matrix Definitions - D = Drinking Water; N = Non-potable Water; S = Solid and Chemical Material; A = Air and Emissions.

APPENDIX C

Building Inspector Training Certificate

Certificate of Completion

This is to certify that

Matthew R. McKibbin

has satisfactorily completed
4 hours of refresher training as an

Asbestos Building Inspector

to comply with the training requirements of
TSCA Title II / 40 CFR 763 (AHERA)

141107
Certificate Number

Susan N. Mans
Instructor

EPA Provider Cert. Number: 1085

ARGUS PACIFIC
TRAINING • CONSULTING

Mar 27, 2013
Date(s) of Training

Exam Score: NA

Expiration Date: Mar 27, 2014

Argus Pacific, Inc. • 1900 W. Nickerson, Suite 315 • Seattle, Washington • 98119 • 206.285.3373 • fax 206.285.3927

PART 1 GENERAL

1.01 SUMMARY

A. Contractor shall perform the entire Work in accordance with the Contract Documents.

B. Without limiting the requirements of the Contract Documents, the Work of the Contract can be summarized as follows:

1. This project intends to repair or overlay the BUR roofs on Washington Building on the Pullman Campus; repair or overlay a portion of the Health Science Building roof on the Spokane Campus; repair the metal ridge cap and skylight on the Science and Engineering Metal Roof on the Vancouver Campus; and apply a cold process coating on the BSEL Facility Roof on the Tri-Cities Campus.

C. Expected Owner-supplied Contractor-installed Work: None.

D. Expected Work by Owner: None.

1.02 SCHEDULE OF ALTERNATES – NOT USED

1.03 SCHEDULE OF ALLOWANCES – NOT USED

1.04 SCHEDULE OF UNIT PRICES – NOT USED

1.05 GENERAL INFORMATION

A. Owner and Owner's Designated Representative:

1. Owner: Board of Regents
Washington State University
Pullman, WA 99164-1045

2. Owner's Designated Representative:

a. All Owner capital projects are administered by the Department of Facilities Services, Capital. Project specific designated representatives are listed within the Agreement.

1.06 SPECIAL CONDITIONS

A. Owner Occupancy: Buildings will be occupied.

END OF SECTION 01 11 00

PART 1 GENERAL

1.01 SUMMARY

A. This Section includes the administrative and procedural requirements for executing changes in the Work. This Section is subject to and governed by the Agreement and General Conditions. In the event of any conflict, the Agreement and General Conditions will have a higher precedence as established in the General Conditions.

1.02 SUBMITTALS

A. Contractor shall submit a breakdown if its actual design wage rates.

B. Contractor shall submit a breakdown of its actual wage rates prior to commencement of construction activities. The breakdown must show:

1. Basic wage rate (Based on L&I Intent to Pay Prevailing Wages);
2. Fringe Package (Based on L&I Intent to Pay Prevailing Wages);
3. FUI (Federal Unemployment Insurance);
4. FICA (Federal Insurance Compensation Act);
5. SUI (State Unemployment Compensation Act);
6. Medicare; and
7. WC (Workers Compensation).

C. Contractor shall submit detailed supporting documentation to verify the above rates, if requested by Owner. All such rates shall be subject to audit.

D. Contractor shall submit prior to commencement of construction activities a list of all equipment that it anticipates will be used on the Project and the actual operating cost of each piece of equipment. The General Conditions describe allowable equipment charges. All costs shall be subject to audit.

1.03 CONTRACT CHANGE PROPOSAL PROCEDURES

A. Contractor shall maintain an Issues Log/ CCP Log as described in the General Conditions:

1. The action status shall indicate which party is currently responsible and when it is appropriate to submit a CCP to Owner. Contractor shall submit a Contract Change Proposal (CCP) with Substantiating Documentation, as described in subsection C below, to Owner within 7 Days of this action status change.
2. Upon final agreement and authorization by Owner a CCP may be incorporated into the Contract via Change Order and shall be reflected on the Issues Log.

B. Direction to perform Work:

1. Owner may directly order Work by a written Work Directive (WD). WDs may be unilateral or bilateral as described in the General Conditions and may be issued on a fixed price or on a "cost-not-to-exceed" basis. The WD may include the following:

   a. A detailed description of the proposed change, products, and location of modification to the Work;

   b. Supplementary or revised Drawings and/or Specifications; and

   c. Projected time for making the change and a statement as to whether overtime work is, or is not, acceptable.

C. Substantiating Documentation required with all CCPs:

1. Contractor shall provide back-up documentation required to substantiate any proposed change in the following format:

   a. CCP narrative, including:

      1) Description of proposed change. In order to allow for efficient review of a change proposal Contractor shall provide enough narrative to the line item breakdown to allow Owner to properly assess that the change is fair and reasonable;

      2) Cause of or reason for making change with a statement of why proposed change is not covered by Contract Documents

      3) Both credited and additive elements relating to a change in Contract Sum and/or Contract Time;

      4) A specific period of time during which Contractor's pricing will be considered valid;

      5) Any schedule considerations that may trigger further impact to the Contract Time if acceptance of the proposed change if delayed beyond a specific date; and

      6) Date change Work is to be completed.

   b. Owner supplied Change Proposal Submittal Form.

   c. CCP Cost Estimate Detail Sheet(s), or other form acceptable to Owner, including:

      1) Line-item estimate detailing material, labor, equipment, Subcontractor, and supplier costs and quantities; and

      2) Subcontractor and supplier proposals with supporting line-item estimates.

   d. CCP Progress Schedule with Contemporaneous Period Analysis

detailing if any impact to the planned progress of the Work and critical path.

e. Other supporting documentation, as appropriate.

D. Correlation with Contractor's Submittals:

1. Application for Payment forms shall record each Unilateral and Bilateral Change Order as a separate item of Work.
2. The Progress Schedule shall be revised to reflect changes in the Contract Time.
3. Project Record shall incorporate all changed Work.

END OF SECTION 01 26 00

PART 1 GENERAL

1.01 SUMMARY

A. This Section includes procedures for preparation and submittal of Applications for Payment.

1.02 SUBMITTALS

A. Prior to submitting its first Application for Payment, Contractor shall:

1. Submit a preliminary Progress Schedule per Section 01 32 13 – Progress Schedule.
2. If requested, submit a projected monthly cash-flow analysis for the duration of the Project.
3. Submit an approved Intent to Pay Prevailing Wages form prior to commencing the Work. An approved Intent to Pay Prevailing Wages form must be on file with Owner for each classification of laborers, workers, or mechanics employed by Contractor or Subcontractors whose Work is included in an Application for Payment.
4. "Washington State Prevailing Wage Rates for Public Works Contracts/Benton County, Clark County, Spokane County, Whitman County" are made a part of the Contract Documents and are included at the end of this Section. It is Contractor's responsibility to verify with the Washington State Department of Labor and Industries the most current and applicable prevailing wage rates for this Project.
5. Submit and receive approval of the Schedule of Values per Section 01 29 73 – Schedule of Values, and the General Conditions. All Applications for Payment shall be in the same format.
6. Submit a list of all Subcontractors with points of contact and other contact information, including phone number, email address, and mailing address.
7. Submit a list of all major material suppliers with points of contact and other contact information, including phone number, email address, and mailing address.
8. Submit Retainage Option Form to Owner for the disposition of retainage funds.
    a. In accordance with Chapter 60.28 of the Revised Code of Washington (RCW), Owner shall reserve retainage not to exceed 5% of the monies earned by Contractor as a trust fund for the protection and payment of:
        1) The claims of any person and/or Owner arising out of or relating to Work performed on the Project; and
        2) The State with respect to taxes, fees, or penalties that may

be imposed and due from Contractor (see General Conditions).

b. Retainage will be released per Section 01 70 00 - Project Close-Out.

c. At the option of Contractor, the moneys reserved by Owner shall be:

1) Retained in a fund by Owner;

2) Bonded for all of the retainage using a bond form acceptable to Owner;

3) Placed in escrow with a bank or trust company by Owner.

a) Escrow: If the retained funds are to be placed in escrow, Contractor will select the escrow agent, subject to approval by Owner. The selected agent must be a bank or trust company in the State of Washington.

b) Escrow Agent: If Contractor elects the escrow option, an escrow agreement shall be executed by Contractor, Owner, and bank or trust company. Three copies of the agreement should be completed and executed by Contractor and returned to Owner for execution; Owner will forward copies to the bank or trust company for receipt, acceptance, and execution. The bank or trust company will retain one copy and return one copy each to Contractor and Owner. A completed and signed escrow agreement must be on file with Owner before Contractor's first Application for Payment is processed.

c) Escrow Investments: The bank or trust company may invest the retained funds in bonds and other securities selected by Contractor, except stocks, subject to the written approval of Owner.

d) The investments selected must mature on or prior to the date 45 Days following Final Acceptance of the Work. Interest on such investments may be paid to Contractor as it accrues.

e) Escrow Costs and Fees: All escrow costs and fees shall be paid by Contractor.

f) Release of Escrow Investments to Contractor: Retainage will be released per Section 01 70 00 - Project Close-Out. Once Contractor has fully complied with the Contract Documents and statute, Owner shall issue written instructions to the bank or trust company to release to Contractor the investment held in escrow.

B. Draft Application for Payment:

1. Contractor shall submit a draft, itemized Application for Payment within the last 7 Days of the month.

2. The draft application does not constitute a payment request and shall not be signed.

3. Contractor shall carefully check all extensions, totals, and required information for accuracy before submittal.

4. Contractor and Owner may meet to confer regarding the current progress of the Work and the amount of payment to which Contractor is entitled. Owner may request that Contractor provide supporting documentation substantiating its right to payment. Contractor is not entitled to make a final payment request, nor is any payment due Contractor, until such data is furnished. Contractor may include in its Application for Payment projected costs to the end of the month.

    a. Fill in the following information within Owner's Application for Payment form:

        1) Percentage of Work completed based upon the approved schedule of values.

        2) List Change Orders approved by Owner prior to submission date. Use Owner's designations. Do not bill for changed Work until a fully executed Change Order has been received.

        3) Certification of Participation WBE and MBEs, all certification types acceptable, supply this regardless of having firms to report upon.

        4) List all Subcontractors that have performed Work at the site during the pay period.

        5) If applicable, Apprentice/Journeyman Participation.

5. Contractor shall submit or make available for review the following prior to the draft Application for Payment:

    a. Project Record; (see Section 01 78 39 – Project Record)

    b. Updated Progress Schedule in native format (see section 01 32 13 – Progress Schedule);

    c. Contractor Quality Control Reports (see Section 01 45 00 - Quality Control); and

    d. Stored Materials: Requests for payment of stored materials may only be made for materials properly stored on or off-site and in full compliance with the General Conditions.

C. Application for Payment:

1. Contractor may not submit the approved Application for Payment (or payment will be withheld) until all requirements of the draft application for payment are met.

2. Upon approval of the Draft Application for Payment, contractor will be authorized to submit the agreed upon Application for Payment for processing and payment. This application for payment shall be signed by hand by a responsible officer of the Contractor and may be submitted in scanned format electronically.

3. Formal submittal must include all parts of the Application for Payment form.

4. Owner shall make progress payments in such amounts as it determines are properly due within 30 Days of receipt of a properly executed Application for Payment.

5. Owner shall notify Contractor in accordance with Chapter 39.76 RCW if the Application for Payment does not comply with the requirements of the Contract Documents.

D. Disputed Amounts: If Contractor believes it is entitled to payment for Work performed during the prior calendar month in addition to the agreed-upon amount, Contractor may, also within the same period, submit to Owner along with the approved Application for Payment a separate, written payment request specifying the exact additional amount claimed due, the category in the Schedule of Values in which the payment is claimed due, the specific Work for which the additional amount is due, and why the additional payment is due. Furthermore, for the submittal to be considered, Contractor and all Subcontractors shall file with Owner by the same date certified copies of all payroll records relating to the additional amount due, pursuant to WAC 296-127-320.

E. Payments to Subcontractors: Contractor shall pay each Subcontractor no later than 10 Days after receipt of payment from Owner the amount to which the Subcontractor is entitled. Contractor shall, by appropriate agreement with each Subcontractor, require each Subcontractor to make payments to lower-tier Subcontractors in a similar manner.

1. Applications for Payment shall not request payment for portions of the Work that Contractor does not intend to pay a Subcontractor, unless such Work has been performed by others whom Contractor intends to pay.

2. If, after making an Application for Payment but before paying a Subcontractor for its performance covered by the Application, Contractor discovers that part or all of the payment otherwise due to the Subcontractor is subject to withholding from the Subcontractor under the Subcontract (such as for unsatisfactory performance or non-payment of lower-tier Subcontractors), Contractor may withhold the amount as allowed under the Subcontract, but it shall:

a. Give the Subcontractor and Owner written notice of the withholding as soon as practicable once Contractor determines

the cause for the withholding but before the due date of the Subcontractor payment;

b. Include the reasons for the withholding and the actions the Subcontractor must take to release the payment; and

c. Once Subcontractor has taken the required remedial actions, pay Subcontractor within 8 Days.

3. Owner may, at its sole option, issue joint checks to Contractor and to any Subcontractor. If Owner makes payments by joint check, such value shall be reflected on the next Application for Payment.

F. Subcontractor Payment Reporting: Contractor and all tiers of subcontractors will utilize Access Equity accessed at the Office of Minority and Women's Business Enterprises (OMWBE) at https://omwbe.diversitycompliance.com/ to report subcontractor payment information. The Contractor shall:

1. Complete the OMWBE user training.

2. Register and enter all required Subcontractor information into Access Equity upon Owner creation of the contract record.

3. Monitor and report amount and date of all payments:

a. Received from Owner;

4. Made to Subcontractor(s);Resolve any discrepancies between reported and received payments.

5. Require each Subcontractor to:

a. Register in Access Equity and complete the user training.

b. Verify amounts and date of receipt of payments from Prime Contractor or higher tier Subcontractor.

c. Report any payments made to a lower tier Subcontractor.

d. Resolve any discrepancies between reported and received payments.

G. Application for Final Payment:

1. Application for Final Payment will be accepted for processing only after Contractor has completed the requirements of Final Completion as described in Section 01 70 00 – Project Close-Out.

H. Release of Retainage:

1. Retainage will be released per Section 01 70 00 - Project Close-Out.

END OF SECTION 01 29 00

State of Washington
Department of Labor & Industries
Prevailing Wage Section - Telephone 360-902-5335
PO Box 44540, Olympia, WA 98504-4540

Washington State Prevailing Wage

The PREVAILING WAGES listed here include both the hourly wage rate and the hourly rate of fringe benefits. On public works projects, worker's wage and benefit rates must add to not less than this total. A brief description of overtime calculation requirements are provided on the Benefit Code Key.

Journey Level Prevailing Wage Rates for the Effective Date: 7/24/2025

Benton County

Trade	Job Classification	Wage	Holiday	Overtime	Note	Risk Class
Asbestos Abatement Workers	Journey Level	$51.50	**7B**	**1M**	**8Z**	**View**
Boilermakers	Journey Level	$77.39	**5N**	**1C**		**View**
Brick Mason	Journey Level	$59.64	**5A**	**1M**		**View**
Building Service Employees	Janitor	$16.66		**1**		**View**
Building Service Employees	Shampooer	$16.66		**1**		**View**
Building Service Employees	Waxer	$16.66		**1**		**View**
Building Service Employees	Window Cleaner	$16.66		**1**		**View**
Cabinet Makers (In Shop)	Journey Level	$16.66		**1**		**View**
Carpenters	Acoustical Worker	$58.42	**15J**	**11U**	**9L**	**View**

Carpenters	Bridge, Dock & Wharf Carpenter	$62.42	**15J**	**11U**	**9L**	**View**
Carpenters	Floor Layer & Floor Finisher	$58.42	**15J**	**11U**	**9L**	**View**
Carpenters	Form Builder	$58.42	**15J**	**11U**	**9L**	**View**
Carpenters	General Carpenter	$58.42	**15J**	**11U**	**9L**	**View**
Carpenters	Heavy Construction Carpenter	$62.42	**15J**	**11U**	**9L**	**View**
Carpenters	Scaffold/Shoring Erecting & Dismantling	$62.42	**7E**	**4X**	**8N**	**View**
Cement Masons	Journey Level	$56.59	**7B**	**1N**		**View**
Divers & Tenders	Assistant Tender	$64.97	**15J**	**11U**	**9I**	**View**
Divers & Tenders	Bell/Vehicle or Submersible Operator Not Under Pressure	$69.29	**15J**	**11U**	**9I**	**View**
Divers & Tenders	Dive Master	$81.34	**15J**	**11U**	**9I**	**View**
Divers & Tenders	Dive Supervisor	$123.52	**15J**	**11U**	**9I**	**View**
Divers & Tenders	Diver (Diving)	$122.02	**15J**	**11U**	**9I**	**View**
Divers & Tenders	Diver Tender	$68.29	**15J**	**11U**	**9I**	**View**
Divers & Tenders	Manifold Operator	$68.29	**15J**	**11U**	**9I**	**View**
Divers & Tenders	Manifold Operator Mixed Gas	$72.29	**15J**	**11U**	**9I**	**View**
Divers & Tenders	ROV Operator	$68.29	**15J**	**11U**	**9I**	**View**

Divers & Tenders	ROV Tender/Technician	$64.97	**15J**	**11U**	**9I**	**View**
Divers & Tenders	Stand-By Diver	$69.29	**15J**	**11U**	**9I**	**View**
Dredge Workers	Assistant Engineer	$85.37	**5D**	**3F**		**View**
Dredge Workers	Assistant Mate (Deckhand)	$84.71	**5D**	**3F**		**View**
Dredge Workers	Boatmen	$85.37	**5D**	**3F**		**View**
Dredge Workers	Engineer Welder	$87.02	**5D**	**3F**		**View**
Dredge Workers	Leverman, Hydraulic	$88.77	**5D**	**3F**		**View**
Dredge Workers	Mates	$85.37	**5D**	**3F**		**View**
Dredge Workers	Oiler	$84.71	**5D**	**3F**		**View**
Drywall Applicator	Journey Level	$59.19	**15O**	**11S**		**View**
Drywall Tapers	Journey Level	$59.19	**15O**	**11S**		**View**
Electrical Fixture Maintenance Workers	Journey Level	$34.23		**1**		**View**
Electricians - Inside	Cable Splicer	$87.48	**5A**	**11F**		**View**
Electricians - Inside	Journey Level	$84.47	**5A**	**11F**		**View**
Electricians - Inside	Welder	$99.51	**5A**	**11F**		**View**
Electricians - Motor Shop	Craftsman	$16.66		**1**		**View**
Electricians - Motor Shop	Journey Level	$16.66		**1**		**View**
Electricians - Powerline Construction	Cable Splicer	$102.42	**5A**	**4D**		**View**

Electricians - Powerline Construction	Certified Line Welder	$93.99	**5A**	**4D**		**View**
Electricians - Powerline Construction	Groundperson	$59.30	**5A**	**4D**		**View**
Electricians - Powerline Construction	Heavy Line Equipment Operator	$93.99	**5A**	**4D**		**View**
Electricians - Powerline Construction	Journey Level Lineperson	$93.99	**5A**	**4D**		**View**
Electricians - Powerline Construction	Line Equipment Operator	$80.96	**5A**	**4D**		**View**
Electricians - Powerline Construction	Meter Installer	$59.30	**5A**	**4D**	**8W**	**View**
Electricians - Powerline Construction	Pole Sprayer	$93.99	**5A**	**4D**		**View**
Electricians - Powerline Construction	Powderperson	$69.84	**5A**	**4D**		**View**
Electronic Technicians	Journey Level	$53.13	**5I**	**1B**		**View**
Elevator Constructors	Mechanic	$115.14	**7D**	**4A**		**View**
Elevator Constructors	Mechanic In Charge	$124.53	**7D**	**4A**		**View**
Fabricated Precast Concrete Products	Journey Level	$16.66		**1**		**View**
Fabricated Precast Concrete Products	Journey Level - In-Factory Work Only	$16.66		**1**		**View**
Fence Erectors	Fence Erector	$51.50	**7B**	**1M**	**8Z**	**View**
Flaggers	Journey Level	$48.55	**7B**	**1M**	**8Z**	**View**

Glaziers	Journey Level	$46.70	**7L**	**4L**		**View**
Heat & Frost Insulators And Asbestos Workers	Journey Level	$65.80	**5K**	**1U**		**View**
Heating Equipment Mechanics	Journey Level	$75.05	**5A**	**1X**		**View**
Hod Carriers & Mason Tenders	Journey Level	$53.84	**7B**	**1M**	**8Z**	**View**
Industrial Power Vacuum Cleaner	Journey Level	$16.66		**1**		**View**
Inland Boatmen	Journey Level	$16.66		**1**		**View**
Inspection/Cleaning/Sealing Of Sewer & Water Systems By Remote Control	Cleaner Operator, Foamer Operator	$16.66		**1**		**View**
Inspection/Cleaning/Sealing Of Sewer & Water Systems By Remote Control	Grout Truck Operator	$16.66		**1**		**View**
Inspection/Cleaning/Sealing Of Sewer & Water Systems By Remote Control	Head Operator	$16.66		**1**		**View**
Inspection/Cleaning/Sealing Of Sewer & Water Systems By Remote Control	Technician	$16.66		**1**		**View**
Inspection/Cleaning/Sealing Of Sewer & Water Systems By Remote Control	Tv Truck Operator	$16.66		**1**		**View**
Insulation Applicators	Journey Level	$58.42	**15J**	**11U**	**9L**	**View**
Ironworkers	Journeyman	$74.44	**15K**	**11N**		**View**

Laborers	Air And Hydraulic Track Drill	$52.14	**7B**	**1M**	**8Z**	**View**
Laborers	Asphalt Raker	$52.14	**7B**	**1M**	**8Z**	**View**
Laborers	Asphalt Roller, Walking	$51.82	**7B**	**1M**	**8Z**	**View**
Laborers	Brick Pavers	$51.50	**7B**	**1M**	**8Z**	**View**
Laborers	Brush Hog Feeder	$51.50	**7B**	**1M**	**8Z**	**View**
Laborers	Brush Machine	$52.14	**7B**	**1M**	**8Z**	**View**
Laborers	Caisson Worker, Free AIr	$52.14	**7B**	**1M**	**8Z**	**View**
Laborers	Carpenter Tender	$51.50	**7B**	**1M**	**8Z**	**View**
Laborers	Cement Finisher Tender	$51.82	**7B**	**1M**	**8Z**	**View**
Laborers	Cement Handler	$51.50	**7B**	**1M**	**8Z**	**View**
Laborers	Chain Saw Operator & Faller	$52.14	**7B**	**1M**	**8Z**	**View**
Laborers	Clean-up Laborer	$51.50	**7B**	**1M**	**8Z**	**View**
Laborers	Compaction Equipment	$51.82	**7B**	**1M**	**8Z**	**View**
Laborers	Concrete Crewman	$51.50	**7B**	**1M**	**8Z**	**View**
Laborers	Concrete Saw, Walking	$51.82	**7B**	**1M**	**8Z**	**View**
Laborers	Concrete Signalman	$51.50	**7B**	**1M**	**8Z**	**View**

Laborers	Concrete Stack	$52.14	**7B**	**1M**	**8Z**	**View**
Laborers	Confined Space Attendant	$51.50	**7B**	**1M**	**8Z**	**View**
Laborers	Construction Specialist	$52.34	**7B**	**1M**	**8Z**	**View**
Laborers	Crusher Feeder	$51.50	**7B**	**1M**	**8Z**	**View**
Laborers	Demolition	$51.50	**7B**	**1M**	**8Z**	**View**
Laborers	Demolition Torch	$51.82	**7B**	**1M**	**8Z**	**View**
Laborers	Dope Pot Fireman, Non-mechanical	$51.82	**7B**	**1M**	**8Z**	**View**
Laborers	Driller Helper (when Required To Move & Position Machine)	$51.82	**7B**	**1M**	**8Z**	**View**
Laborers	Drills With Dual Masts	$52.46	**7B**	**1M**	**8Z**	**View**
Laborers	Dry Stack Walls	$51.50	**7B**	**1M**	**8Z**	**View**
Laborers	Dumpman	$51.50	**7B**	**1M**	**8Z**	**View**
Laborers	Erosion Control Laborer	$51.50	**7B**	**1M**	**8Z**	**View**
Laborers	Firewatch	$51.50	**7B**	**1M**	**8Z**	**View**
Laborers	Form Cleaning Machine Feeder, Stacker	$51.50	**7B**	**1M**	**8Z**	**View**
Laborers	Form Setter, Paving	$51.82	**7B**	**1M**	**8Z**	**View**
Laborers	General Laborer	$51.50	**7B**	**1M**	**8Z**	**View**

Laborers	Grade Checker	$54.43	7B	1M	8Z	View
Laborers	Grout Machine Header Tender	$51.50	7B	1M	8Z	View
Laborers	Guard Rail	$51.50	7B	1M	8Z	View
Laborers	Gunite	$52.14	7B	1M	8Z	View
Laborers	Hazardous Waste Worker (level A)	$52.46	7B	1M	8Z	View
Laborers	Hazardous Waste Worker (level B)	$52.14	7B	1M	8Z	View
Laborers	Hazardous Waste Worker (level C)	$51.82	7B	1M	8Z	View
Laborers	Hazardous Waste Worker (level D)	$51.50	7B	1M	8Z	View
Laborers	Hdpe Or Similar Liner Installer	$51.50	7B	1M	8Z	View
Laborers	High Scaler	$52.14	7B	1M	8Z	View
Laborers	Industrial Technician	$73.60	7B	1M	8Z	View
Laborers	Jackhammer Operator Miner, Class "b"	$51.82	7B	1M	8Z	View
Laborers	Laser Beam Operator	$52.14	7B	1M	8Z	View
Laborers	Miner, Class "a"	$51.50	7B	1M	8Z	View
Laborers	Miner, Class "c"	$52.14	7B	1M	8Z	View
Laborers	Miner, Class "d"	$52.46	7B	1M	8Z	View

Laborers	Monitor Operator, Air Track Or Similar Mounting	$52.14	**7B**	**1M**	**8Z**	**View**
Laborers	Mortar Mixer	$52.14	**7B**	**1M**	**8Z**	**View**
Laborers	Nipper	$51.50	**7B**	**1M**	**8Z**	**View**
Laborers	Nozzleman	$52.14	**7B**	**1M**	**8Z**	**View**
Laborers	Nozzleman, Water (to Include Fire Hose), Air Or Steam	$51.82	**7B**	**1M**	**8Z**	**View**
Laborers	Pavement Breaker, 90 Lbs. & Over	$52.14	**7B**	**1M**	**8Z**	**View**
Laborers	Pavement Breaker, Under 90 Lbs.	$51.82	**7B**	**1M**	**8Z**	**View**
Laborers	Pilot Car	$48.55	**7B**	**1M**	**8Z**	**View**
Laborers	Pipelayer	$52.14	**7B**	**1M**	**8Z**	**View**
Laborers	Pipelayer, Corrugated Metal Culvert And Multi-Plate	$52.14	**7B**	**1M**	**8Z**	**View**
Laborers	Pipewrapper	$52.14	**7B**	**1M**	**8Z**	**View**
Laborers	Plasterer Tenders	$52.14	**7B**	**1M**	**8Z**	**View**
Laborers	Pot Tender	$51.82	**7B**	**1M**	**8Z**	**View**
Laborers	Powderman	$54.05	**7B**	**1M**	**8Z**	**View**
Laborers	Powederman Helper	$51.82	**7B**	**1M**	**8Z**	**View**

Laborers	Power Buggy Operator	$51.82	**7B**	**1M**	**8Z**	**View**
Laborers	Power Tool Operator, Gas, Electric, Pneumatic	$51.82	**7B**	**1M**	**8Z**	**View**
Laborers	Rad-Con Technician	$73.60	**7B**	**1M**	**8Z**	**View**
Laborers	Railroad Equipment, Power Driven, Except Dual Mobile	$51.82	**7B**	**1M**	**8Z**	**View**
Laborers	Railroad Power Spiker Or Puller, Dual Mobile	$51.82	**7B**	**1M**	**8Z**	**View**
Laborers	Remote Equipment Operator	$52.46	**7B**	**1M**	**8Z**	**View**
Laborers	Remote Equipment Operator (i.e Compaction And Demolition)	$51.82	**7B**	**1M**	**8Z**	**View**
Laborers	Rigger/signal Person	$51.82	**7B**	**1M**	**8Z**	**View**
Laborers	Riprap Person	$51.50	**7B**	**1M**	**8Z**	**View**
Laborers	Rodder & Spreader	$51.82	**7B**	**1M**	**8Z**	**View**
Laborers	Sand Hogs Under Compressed Air Conditions	$304.86	**7B**	**1M**	**8Z**	**View**
Laborers	Sandblast Tailhoseman	$51.50	**7B**	**1M**	**8Z**	**View**
Laborers	Scaffold Erector, Wood Or Steel	$51.50	**7B**	**1M**	**8Z**	**View**

Laborers	Scaleman	$48.55	7B	1M	8Z	View
Laborers	Stake Jumper	$51.50	7B	1M	8Z	View
Laborers	Structural Mover	$51.50	7B	1M	8Z	View
Laborers	Tailhoseman (water Nozzle)	$51.50	7B	1M	8Z	View
Laborers	Timber Bucker & Faller (by Hand)	$51.50	7B	1M	8Z	View
Laborers	Track Laborer (rr)	$51.50	7B	1M	8Z	View
Laborers	Traffic Control Laborer	$48.55	7B	1M	8Z	View
Laborers	Traffic Control Supervisor	$51.50	7B	1M	8Z	View
Laborers	Trencher, Shawnee	$51.82	7B	1M	8Z	View
Laborers	Trenchless Technology Technician	$52.14	7B	1M	8Z	View
Laborers	Truck Loader	$51.50	7B	1M	8Z	View
Laborers	Truck Mounted Attenuator	$48.55	7B	1M	8Z	View
Laborers	Tugger Operator	$51.82	7B	1M	8Z	View
Laborers	Vibrators, All	$52.14	7B	1M	8Z	View
Laborers	Wagon Drills	$51.82	7B	1M	8Z	View
Laborers	Water Pipe Liner	$51.82	7B	1M	8Z	View

Laborers	Welder, Electrical, Manual Or Automatic (hdpe Or Similar Pipe And Liner)	$52.46	**7B**	**1M**	**8Z**	**View**
Laborers	Well-point Person	$51.50	**7B**	**1M**	**8Z**	**View**
Laborers	Wheelbarrow, Power Driven	$51.82	**7B**	**1M**	**8Z**	**View**
Laborers	Window Washer, Cleaner	$48.55	**7B**	**1M**	**8Z**	**View**
Laborers - Underground Sewer & Water	General Laborer & Topman	$52.14	**7B**	**1M**	**8Z**	**View**
Laborers - Underground Sewer & Water	Pipe Layer	$52.14	**7B**	**1M**	**8Z**	**View**
Landscape Construction	Landscape Laborer	$48.55	**7B**	**1M**	**8Z**	**View**
Landscape Construction	Landscape Operator	$59.63	**7Z**	**4S**	**9A**	**View**
Landscape Maintenance	Groundskeeper	$16.66		**1**		**View**
Lathers	Journey Level	$59.19	**15O**	**11S**		**View**
Marble Setters	Journey Level	$59.64	**5A**	**1M**		**View**
Metal Fabrication (In Shop)	Machine Operator	$16.66		**1**		**View**
Metal Fabrication (In Shop)	Painter	$16.66		**1**		**View**
Metal Fabrication (In Shop)	Welder	$16.70		**1**		**View**
Millwright	Journey Level	$79.33	**5A**	**1B**		**View**
Modular Buildings	Journey Level	$16.66		**1**		**View**

Painters	Commercial Painter	$47.26	6Z	1W		View
Painters	Industrial Painter	$54.58	6Z	1W	9D	View
Pile Driver	Journey Level	$64.02	15J	11U	9L	View
Plasterers	Journey Level	$56.27	7K	1N		View
Playground & Park Equipment Installers	Journey Level	$16.66		1		View
Plumbers & Pipefitters	Journey Level	$97.01	6Z	1Q		View
Power Equipment Operators	A-frame Truck (2 Or More Drums)	$59.44	7Z	4S	9A	View
Power Equipment Operators	A-frame Truck (single Drum)	$58.73	7Z	4S	9A	View
Power Equipment Operators	All Tower Cranes	$64.09	7Z	4S	9A	View
Power Equipment Operators	Asphalt Plant Operator	$60.14	7Z	4S	9A	View
Power Equipment Operators	Assistant Plant Operator, Fireman Or Pugmixer (asphalt)	$58.73	7Z	4S	9A	View
Power Equipment Operators	Assistant Refrigeration Plant & Chiller Operator (over 1000 Ton)	$59.44	7Z	4S	9A	View
Power Equipment Operators	Assistant Refrigeration Plant (under 1000 Ton)	$58.73	7Z	4S	9A	View
Power Equipment Operators	Automatic Subgrader (ditches & Trimmers)	$60.14	7Z	4S	9A	View

Power Equipment Operators	Backfillers (cleveland & Similar)	$59.44	7Z	4S	9A	View
Power Equipment Operators	Backhoe & Hoe Ram (under 3/4 Yd.)	$59.82	7Z	4S	9A	View
Power Equipment Operators	Backhoe (45,000 Gw & Under)	$59.82	7Z	4S	9A	View
Power Equipment Operators	Backhoe (45,000 Gw To 110,000 Gw)	$60.14	7Z	4S	9A	View
Power Equipment Operators	Backhoe (over 110,000 Gw)	$60.46	7Z	4S	9A	View
Power Equipment Operators	Backhoes & Hoe Ram (3 Yds & Over)	$60.46	7Z	4S	9A	View
Power Equipment Operators	Backhoes & Hoe Ram (3/4 Yd. To 3 Yd.)	$60.14	7Z	4S	9A	View
Power Equipment Operators	Bagley Or Stationary Scraper	$58.73	7Z	4S	9A	View
Power Equipment Operators	Batch & Wet Mix Operator (multiple Units, 2 & Incl. 4)	$60.14	7Z	4S	9A	View
Power Equipment Operators	Batch Plant & Wet Mix Operator, Single Unit (concrete)	$59.44	7Z	4S	9A	View
Power Equipment Operators	Batch Plant (over 4 Units)	$60.14	7Z	4S	9A	View
Power Equipment Operators	Belt Finishing Machine	$58.73	7Z	4S	9A	View
Power Equipment Operators	Belt Loader (kocal Or Similar)	$59.44	7Z	4S	9A	View

Power Equipment Operators	Belt-crete Conveyors With Power Pack Or Similar	$59.44	7Z	4S	9A	View
Power Equipment Operators	Bending Machine	$59.44	7Z	4S	9A	View
Power Equipment Operators	Bit Grinders	$58.36	7Z	4S	9A	View
Power Equipment Operators	Blade (finish & Bluetop), Automatic, Cmi, Abc, Finish Athey & Huber & Similar When Used As Automatic	$60.46	7Z	4S	9A	View
Power Equipment Operators	Blade Operator (motor Patrol & Attachments)	$60.14	7Z	4S	9A	View
Power Equipment Operators	Blower Operator (cement)	$58.73	7Z	4S	9A	View
Power Equipment Operators	Boat Operator	$58.36	7Z	4S	9A	View
Power Equipment Operators	Bob Cat (skid Steer)	$59.44	7Z	4S	9A	View
Power Equipment Operators	Bolt Threading Machine	$58.36	7Z	4S	9A	View
Power Equipment Operators	Boom Cats (side)	$60.14	7Z	4S	9A	View
Power Equipment Operators	Boring Machine (earth)	$59.44	7Z	4S	9A	View
Power Equipment Operators	Boring Machine (Rock Under 8 inch Bit - Quarry Master, Joy Or Similar)	$59.44	7Z	4S	9A	View

Power Equipment Operators	Bump Cutter (wayne, Saginau Or Similar)	$59.44	7Z	4S	9A	View
Power Equipment Operators	Cableway Controller (dispatcher)	$60.14	7Z	4S	9A	View
Power Equipment Operators	Cableway Operators	$60.46	7Z	4S	9A	View
Power Equipment Operators	Canal Lining Machine (concrete)	$59.44	7Z	4S	9A	View
Power Equipment Operators	Carrydeck & Boom Truck (under 25 Tons)	$59.82	7Z	4S	9A	View
Power Equipment Operators	Cement Hog	$58.73	7Z	4S	9A	View
Power Equipment Operators	Chipper (Without Crane)	$59.44	7Z	4S	9A	View
Power Equipment Operators	Clamshell, Dragline	$62.33	7Z	4S	9A	View
Power Equipment Operators	Cleaning & Doping Machine (Pipeline)	$59.44	7Z	4S	9A	View
Power Equipment Operators	Compactor (self-propelled With Blade)	$60.14	7Z	4S	9A	View
Power Equipment Operators	Compressor (2000 Cfm Or Over, 2 Or More, Gas Diesel Or Electric Power)	$58.73	7Z	4S	9A	View
Power Equipment Operators	Compressors (under 2000 Cfm, Gas, Diesel Or Electric Power)	$58.36	7Z	4S	9A	View
Power Equipment Operators	Concrete Cleaning / Decontamination Machine Operator	$60.46	7Z	4S	9A	View

Power Equipment Operators	Concrete Pump Boom Truck	$60.14	7Z	4S	9A	View
Power Equipment Operators	Concrete Pumps (squeeze-crete, Flow-crete, Whitman & Similar)	$59.63	7Z	4S	9A	View
Power Equipment Operators	Concrete Saw (multiple Cut)	$58.73	7Z	4S	9A	View
Power Equipment Operators	Concrete Slip Form Paver	$60.14	7Z	4S	9A	View
Power Equipment Operators	Conveyor Aggregate Delivery Systems (c.a.d.)	$60.14	7Z	4S	9A	View
Power Equipment Operators	Crane Oiler & Cable Tender, Mucking Machine	$58.36	7Z	4S	9A	View
Power Equipment Operators	Crane Oiler - Driver (cdl Required)	$58.73	7Z	4S	9A	View
Power Equipment Operators	Cranes (100 to 299 Tons) All Attachments	$63.26	7Z	4S	9A	View
Power Equipment Operators	Cranes (25 Tons & Under), All Attachments Incl. Clamshell, Dragline	$59.82	7Z	4S	9A	View
Power Equipment Operators	Cranes (25 Tons To And Including 44 Tons), All Attachments Incl. Clamshell, Dragline	$60.14	7Z	4S	9A	View

Power Equipment Operators	Cranes (300 Tons and Over) All Attachments	$64.09	7Z	4S	9A	View
Power Equipment Operators	Cranes (45 Tons To 55 Tons), All Attachments Incl. Clamshell And Dragline	$60.46	7Z	4S	9A	View
Power Equipment Operators	Cranes (56 to 99 tons) and overhead, rail and Quick Tower. All attachment incl. Clamshell, Dragline	$62.33	7Z	4S	9A	View
Power Equipment Operators	Crusher Feeder	$58.36	7Z	4S	9A	View
Power Equipment Operators	Crusher, Grizzle & Screening Plant Operator	$60.14	7Z	4S	9A	View
Power Equipment Operators	Curb Extruder (asphalt Or Concrete)	$59.63	7Z	4S	9A	View
Power Equipment Operators	Deck Engineer	$59.44	7Z	4S	9A	View
Power Equipment Operators	Deck Hand	$58.36	7Z	4S	9A	View
Power Equipment Operators	Derricks & Stifflegs (65 Tons & Over)	$60.46	7Z	4S	9A	View
Power Equipment Operators	Derricks & Stifflegs (under 65 Tons)	$59.82	7Z	4S	9A	View
Power Equipment Operators	Distributor Leverman	$58.73	7Z	4S	9A	View
Power Equipment Operators	Ditch Witch Or Similar	$58.73	7Z	4S	9A	View

Power Equipment Operators	Dope Pots (power Agitated	$58.73	7Z	4S	9A	View
Power Equipment Operators	Dozer / Tractor (up To D-5 Or Equivalent) And Traxcavator	$59.44	7Z	4S	9A	View
Power Equipment Operators	Dozer / Tractors (d-6 & Equivalent & Over)	$60.14	7Z	4S	9A	View
Power Equipment Operators	Dozer, 834 R/t & Similar	$60.14	7Z	4S	9A	View
Power Equipment Operators	Drill Doctor	$60.14	7Z	4S	9A	View
Power Equipment Operators	Driller Licensed	$62.33	7Z	4S	9A	View
Power Equipment Operators	Drillers Helper	$58.36	7Z	4S	9A	View
Power Equipment Operators	Drilling Equipment (8 inch Bit & Over - Robbins, Reverse Circulation & Similar)	$59.82	7Z	4S	9A	View
Power Equipment Operators	Drills (churn, Core, Calyx Or Diamond)	$59.63	7Z	4S	9A	View
Power Equipment Operators	Elevating Belt (holland Type)	$60.46	7Z	4S	9A	View
Power Equipment Operators	Elevating Belt-type Loader (euclid, Barber Green & Similar)	$59.44	7Z	4S	9A	View
Power Equipment Operators	Elevating Grader-type Loader (dumor, Adams Or Similar)	$59.44	7Z	4S	9A	View
Power Equipment Operators	Elevator Hoisting Materials	$58.73	7Z	4S	9A	View

Power Equipment Operators	Equipment Serviceman, Greaser & Oiler	$59.63	7Z	4S	9A	View
Power Equipment Operators	Fireman & Heater Tender	$58.36	7Z	4S	9A	View
Power Equipment Operators	Fork Lift Or Lumber Stacker, Hydra-life & Similar	$58.73	7Z	4S	9A	View
Power Equipment Operators	Generator Plant Engineers (diesel Or Electric)	$59.44	7Z	4S	9A	View
Power Equipment Operators	Gin Trucks (pipeline)	$58.73	7Z	4S	9A	View
Power Equipment Operators	Grade Checker	$59.82	7Z	4S	9A	View
Power Equipment Operators	Gunite Combination Mixer & Compressor	$59.44	7Z	4S	9A	View
Power Equipment Operators	H.d. Mechanic	$60.46	7Z	4S	9A	View
Power Equipment Operators	H.d. Welder	$60.46	7Z	4S	9A	View
Power Equipment Operators	Heavy Equipment Robotics Operator	$60.46	7Z	4S	9A	View
Power Equipment Operators	Helicopter Pilot	$62.33	7Z	4S	9A	View
Power Equipment Operators	Helper, Mechanic Or Welder, H.D	$58.36	7Z	4S	9A	View
Power Equipment Operators	Hoe Ram	$59.82	7Z	4S	9A	View
Power Equipment Operators	Hoist (2 Or More Drums Or Tower Hoist)	$59.63	7Z	4S	9A	View

Power Equipment Operators	Hoist, Single Drum	$58.73	7Z	4S	9A	View
Power Equipment Operators	Hydraulic Platform Trailers (goldhofer, Shaurerly And Similar)	$60.46	7Z	4S	9A	View
Power Equipment Operators	Hydro-seeder, Mulcher, Nozzleman	$58.36	7Z	4S	9A	View
Power Equipment Operators	Lime Batch Tank Operator (recycle Train)	$60.14	7Z	4S	9A	View
Power Equipment Operators	Lime Brain Operator (recycle Train)	$60.14	7Z	4S	9A	View
Power Equipment Operators	Loader (360 Degrees Revolving Koehring Scooper Or Similar)	$60.46	7Z	4S	9A	View
Power Equipment Operators	Loader Operator (front-end & Overhead, 4 Yds. Incl. 8 Yds.)	$60.14	7Z	4S	9A	View
Power Equipment Operators	Loaders (bucket Elevators And Conveyors)	$58.73	7Z	4S	9A	View
Power Equipment Operators	Loaders (overhead & Front-end, Over 8 Yds.)	$60.46	7Z	4S	9A	View
Power Equipment Operators	Loaders (overhead & Front-end, Under 4 Yds.. R/t)	$59.63	7Z	4S	9A	View
Power Equipment Operators	Loaders (overhead And Front-end, 10 Yds. & Over)	$62.33	7Z	4S	9A	View

Power Equipment Operators	Locomotive Engineer	$59.44	7Z	4S	9A	View
Power Equipment Operators	Longitudinal Float	$58.73	7Z	4S	9A	View
Power Equipment Operators	Master Environmental Maintenance Technician	$60.46	7Z	4S	9A	View
Power Equipment Operators	Mixer (portable - Concrete)	$58.73	7Z	4S	9A	View
Power Equipment Operators	Mixermobile	$59.44	7Z	4S	9A	View
Power Equipment Operators	Mobile Crusher Operator (recycle Train)	$60.14	7Z	4S	9A	View
Power Equipment Operators	Mucking Machine	$59.44	7Z	4S	9A	View
Power Equipment Operators	Multiple Dozer Units With Single Blade	$60.14	7Z	4S	9A	View
Power Equipment Operators	Pavement Breaker, Hydra-hammer & Similar	$58.73	7Z	4S	9A	View
Power Equipment Operators	Paving (dual Drum)	$59.82	7Z	4S	9A	View
Power Equipment Operators	Paving Machine (asphalt And Concrete)	$60.14	7Z	4S	9A	View
Power Equipment Operators	Piledriving Engineers	$59.82	7Z	4S	9A	View
Power Equipment Operators	Plant Oiler	$58.36	7Z	4S	9A	View
Power Equipment Operators	Posthole Auger Or Punch	$59.44	7Z	4S	9A	View

Power Equipment Operators	Power Broom	$58.73	7Z	4S	9A	View
Power Equipment Operators	Pump (grout Or Jet)	$59.44	7Z	4S	9A	View
Power Equipment Operators	Pumpman	$58.36	7Z	4S	9A	View
Power Equipment Operators	Quad-track Or Similar Equipment	$60.14	7Z	4S	9A	View
Power Equipment Operators	Railroad Ballast Regulation Operator (self-propelled)	$58.73	7Z	4S	9A	View
Power Equipment Operators	Railroad Power Tamper Operator (self-propelled)	$58.73	7Z	4S	9A	View
Power Equipment Operators	Railroad Tamper Jack Operator (self-propelled)	$58.73	7Z	4S	9A	View
Power Equipment Operators	Railroad Track Liner Operator (self-propelled)	$59.82	7Z	4S	9A	View
Power Equipment Operators	Refrigeration Plant Engineer (1000 Tons & Over)	$59.82	7Z	4S	9A	View
Power Equipment Operators	Refrigeration Plant Engineer (under 1000 Ton)	$59.63	7Z	4S	9A	View
Power Equipment Operators	Rollerman (finishing Asphalt Pavement)	$60.14	7Z	4S	9A	View
Power Equipment Operators	Rollers, All Types On Subgrade, Including Seal And Chip Coating (farm Type,	$58.36	7Z	4S	9A	View

	Case, John Deere And Similar,or Compacting Vibrator), Except When Pulled B					
Power Equipment Operators	Roto Mill (pavement Grinder)	$60.14	7Z	4S	9A	View
Power Equipment Operators	Rotomill Groundsman	$59.63	7Z	4S	9A	View
Power Equipment Operators	Rubber-tired Scrapers (multiple Engine With Three Or More Scrapers)	$60.46	7Z	4S	9A	View
Power Equipment Operators	Rubber-tired Skidders (r/t With Or Without Attachments)	$59.63	7Z	4S	9A	View
Power Equipment Operators	Scrapers, All, Rubber-tired	$60.14	7Z	4S	9A	View
Power Equipment Operators	Screed Operator	$60.14	7Z	4S	9A	View
Power Equipment Operators	Shovels (3 Yds. & Over)	$60.46	7Z	4S	9A	View
Power Equipment Operators	Shovels (under 3 Yds.)	$60.14	7Z	4S	9A	View
Power Equipment Operators	Signalman (whirleys, Highline, Hammerheads Or Similar)	$59.82	7Z	4S	9A	View
Power Equipment Operators	Soil Stabilizer (p & H Or Similar)	$59.44	7Z	4S	9A	View
Power Equipment Operators	Spray Curing Machine (concrete)	$58.73	7Z	4S	9A	View

Power Equipment Operators	Spreader Box (self-propelled)	$58.73	7Z	4S	9A	View
Power Equipment Operators	Spreader Machine	$59.44	7Z	4S	9A	View
Power Equipment Operators	Steam Cleaner	$58.36	7Z	4S	9A	View
Power Equipment Operators	Straddle Buggy (ross & Similar On Construction Job Only)	$58.73	7Z	4S	9A	View
Power Equipment Operators	Surface Heater & Planer Machine	$59.63	7Z	4S	9A	View
Power Equipment Operators	Tractor (farm Type R/t With Attachments, Except Backhoe)	$58.73	7Z	4S	9A	View
Power Equipment Operators	Traverse Finish Machine	$59.44	7Z	4S	9A	View
Power Equipment Operators	Trenching Machines (7 Ft. Depth & Over)	$60.14	7Z	4S	9A	View
Power Equipment Operators	Trenching Machines (under 7 Ft. Depth Capacity)	$59.63	7Z	4S	9A	View
Power Equipment Operators	Tug Boat Operator	$60.14	7Z	4S	9A	View
Power Equipment Operators	Tugger Operator	$58.73	7Z	4S	9A	View
Power Equipment Operators	Turnhead (with Re-screening)	$59.63	7Z	4S	9A	View
Power Equipment Operators	Turnhead Operator	$59.44	7Z	4S	9A	View
Power Equipment Operators	Ultra High Pressure Wateriet Cutting Tool	$60.46	7Z	4S	9A	View

	System Operator, (30,000 Psi)					
Power Equipment Operators	Vactor Guzzler, Super Sucker	$60.14	7Z	4S	9A	View
Power Equipment Operators	Vacuum Blasting Machine Operator	$60.46	7Z	4S	9A	View
Power Equipment Operators	Vacuum Drill (reverse Circulation Drill Under 8 Inch Bit)	$59.63	7Z	4S	9A	View
Power Equipment Operators	Welding Machine	$58.36	7Z	4S	9A	View
Power Equipment Operators	Whirleys & Hammerheads, All	$60.46	7Z	4S	9A	View
Power Equipment Operators-Underground Sewer & Water	A-frame Truck (2 Or More Drums)	$59.44	7Z	4S	9A	View
Power Equipment Operators-Underground Sewer & Water	A-frame Truck (single Drum)	$58.73	7Z	4S	9A	View
Power Equipment Operators-Underground Sewer & Water	All Tower Cranes	$64.09	7Z	4S	9A	View
Power Equipment Operators-Underground Sewer & Water	Asphalt Plant Operator	$60.14	7Z	4S	9A	View
Power Equipment Operators-Underground Sewer & Water	Assistant Plant Operator, Fireman Or Pugmixer (asphalt)	$58.73	7Z	4S	9A	View
Power Equipment Operators-Underground Sewer & Water	Assistant Refrigeration Plant & Chiller Operator (over 1000 Ton)	$59.44	7Z	4S	9A	View
Power Equipment Operators-Underground Sewer & Water	Assistant Refrigeration Plant	$58.73	7Z	4S	9A	View

	(under 1000 Ton)					
Power Equipment Operators-Underground Sewer & Water	Automatic Subgrader (ditches & Trimmers)	$60.14	7Z	4S	9A	View
Power Equipment Operators-Underground Sewer & Water	Backfillers (cleveland & Similar)	$59.44	7Z	4S	9A	View
Power Equipment Operators-Underground Sewer & Water	Backhoe & Hoe Ram (under 3/4 Yd.)	$59.82	7Z	4S	9A	View
Power Equipment Operators-Underground Sewer & Water	Backhoe (45,000 Gw & Under)	$59.82	7Z	4S	9A	View
Power Equipment Operators-Underground Sewer & Water	Backhoe (45,000 Gw To 110,000 Gw)	$60.14	7Z	4S	9A	View
Power Equipment Operators-Underground Sewer & Water	Backhoe (over 110,000 Gw)	$60.46	7Z	4S	9A	View
Power Equipment Operators-Underground Sewer & Water	Backhoes & Hoe Ram (3 Yds & Over)	$60.46	7Z	4S	9A	View
Power Equipment Operators-Underground Sewer & Water	Backhoes & Hoe Ram (3/4 Yd. To 3 Yd.)	$60.14	7Z	4S	9A	View
Power Equipment Operators-Underground Sewer & Water	Bagley Or Stationary Scraper	$58.73	7Z	4S	9A	View
Power Equipment Operators-Underground Sewer & Water	Batch & Wet Mix Operator (multiple Units, 2 & Incl. 4)	$60.14	7Z	4S	9A	View
Power Equipment Operators-Underground Sewer & Water	Batch Plant & Wet Mix Operator, Single Unit (concrete)	$59.44	7Z	4S	9A	View
Power Equipment Operators-Underground Sewer & Water	Batch Plant (over 4 Units)	$60.14	7Z	4S	9A	View
Power Equipment Operators-Underground Sewer & Water	Belt Finishing Machine	$58.73	7Z	4S	9A	View

Power Equipment Operators-Underground Sewer & Water	Belt Loader (kocal Or Similar)	$59.44	7Z	4S	9A	View
Power Equipment Operators-Underground Sewer & Water	Belt-crete Conveyors With Power Pack Or Similar	$59.44	7Z	4S	9A	View
Power Equipment Operators-Underground Sewer & Water	Bending Machine	$59.44	7Z	4S	9A	View
Power Equipment Operators-Underground Sewer & Water	Bit Grinders	$58.36	7Z	4S	9A	View
Power Equipment Operators-Underground Sewer & Water	Blade (finish & Bluetop), Automatic, Cmi, Abc, Finish Athey & Huber & Similar When Used As Automatic	$60.46	7Z	4S	9A	View
Power Equipment Operators-Underground Sewer & Water	Blade Operator (motor Patrol & Attachments)	$60.14	7Z	4S	9A	View
Power Equipment Operators-Underground Sewer & Water	Blower Operator (cement)	$58.73	7Z	4S	9A	View
Power Equipment Operators-Underground Sewer & Water	Boat Operator	$58.36	7Z	4S	9A	View
Power Equipment Operators-Underground Sewer & Water	Bob Cat (skid Steer)	$59.44	7Z	4S	9A	View
Power Equipment Operators-Underground Sewer & Water	Bolt Threading Machine	$58.36	7Z	4S	9A	View
Power Equipment Operators-Underground Sewer & Water	Boom Cats (side)	$60.14	7Z	4S	9A	View

Power Equipment Operators-Underground Sewer & Water	Boring Machine (earth)	$59.44	7Z	4S	9A	View
Power Equipment Operators-Underground Sewer & Water	Boring Machine (Rock Under 8 inch Bit - Quarry Master, Joy Or Similar)	$59.44	7Z	4S	9A	View
Power Equipment Operators-Underground Sewer & Water	Bump Cutter (wayne, Saginau Or Similar)	$59.44	7Z	4S	9A	View
Power Equipment Operators-Underground Sewer & Water	Cableway Controller (dispatcher)	$60.14	7Z	4S	9A	View
Power Equipment Operators-Underground Sewer & Water	Cableway Operators	$60.46	7Z	4S	9A	View
Power Equipment Operators-Underground Sewer & Water	Canal Lining Machine (concrete)	$59.44	7Z	4S	9A	View
Power Equipment Operators-Underground Sewer & Water	Carrydeck & Boom Truck (under 25 Tons)	$59.82	7Z	4S	9A	View
Power Equipment Operators-Underground Sewer & Water	Cement Hog	$58.73	7Z	4S	9A	View
Power Equipment Operators-Underground Sewer & Water	Chipper (Without Crane)	$59.44	7Z	4S	9A	View
Power Equipment Operators-Underground Sewer & Water	Clamshell, Dragline	$62.33	7Z	4S	9A	View
Power Equipment Operators-Underground Sewer & Water	Cleaning & Doping Machine (Pipeline)	$59.44	7Z	4S	9A	View
Power Equipment Operators-Underground Sewer & Water	Compactor (self-propelled With Blade)	$60.14	7Z	4S	9A	View
Power Equipment Operators-Underground Sewer & Water	Compressor (2000 Cfm Or Over, 2 Or	$58.73	7Z	4S	9A	View

	More, Gas Diesel Or Electric Power)					
Power Equipment Operators-Underground Sewer & Water	Compressors (under 2000 Cfm, Gas, Diesel Or Electric Power)	$58.36	7Z	4S	9A	View
Power Equipment Operators-Underground Sewer & Water	Concrete Cleaning / Decontamination Machine Operator	$60.46	7Z	4S	9A	View
Power Equipment Operators-Underground Sewer & Water	Concrete Pump Boom Truck	$60.14	7Z	4S	9A	View
Power Equipment Operators-Underground Sewer & Water	Concrete Pumps (squeeze-crete, Flow-crete, Whitman & Similar)	$59.63	7Z	4S	9A	View
Power Equipment Operators-Underground Sewer & Water	Concrete Saw (multiple Cut)	$58.73	7Z	4S	9A	View
Power Equipment Operators-Underground Sewer & Water	Concrete Slip Form Paver	$60.14	7Z	4S	9A	View
Power Equipment Operators-Underground Sewer & Water	Conveyor Aggregate Delivery Systems (c.a.d.)	$60.14	7Z	4S	9A	View
Power Equipment Operators-Underground Sewer & Water	Crane Oiler & Cable Tender, Mucking Machine	$58.36	7Z	4S	9A	View
Power Equipment Operators-Underground Sewer & Water	Crane Oiler - Driver (cdl Required)	$58.73	7Z	4S	9A	View
Power Equipment Operators-Underground Sewer & Water	Cranes (100 to 299 Tons) All Attachments	$63.26	7Z	4S	9A	View

Power Equipment Operators-Underground Sewer & Water	Cranes (25 Tons & Under), All Attachments Incl. Clamshell, Dragline	$59.82	7Z	4S	9A	View
Power Equipment Operators-Underground Sewer & Water	Cranes (25 Tons To And Including 44 Tons), All Attachments Incl. Clamshell, Dragline	$60.14	7Z	4S	9A	View
Power Equipment Operators-Underground Sewer & Water	Cranes (300 Tons and Over) All Attachments	$64.09	7Z	4S	9A	View
Power Equipment Operators-Underground Sewer & Water	Cranes (45 Tons To 55 Tons), All Attachments Incl. Clamshell And Dragline	$60.46	7Z	4S	9A	View
Power Equipment Operators-Underground Sewer & Water	Cranes (56 to 99 tons) and overhead, rail and Quick Tower. All attachment incl. Clamshell, Dragline	$62.33	7Z	4S	9A	View
Power Equipment Operators-Underground Sewer & Water	Crusher Feeder	$58.36	7Z	4S	9A	View
Power Equipment Operators-Underground Sewer & Water	Crusher, Grizzle & Screening Plant Operator	$60.14	7Z	4S	9A	View
Power Equipment Operators-Underground Sewer & Water	Curb Extruder (asphalt Or Concrete)	$59.63	7Z	4S	9A	View
Power Equipment Operators-Underground Sewer & Water	Deck Engineer	$59.44	7Z	4S	9A	View

Power Equipment Operators-Underground Sewer & Water	Deck Hand	$58.36	7Z	4S	9A	View
Power Equipment Operators-Underground Sewer & Water	Derricks & Stifflegs (65 Tons & Over)	$60.46	7Z	4S	9A	View
Power Equipment Operators-Underground Sewer & Water	Derricks & Stifflegs (under 65 Tons)	$59.82	7Z	4S	9A	View
Power Equipment Operators-Underground Sewer & Water	Distributor Leverman	$58.73	7Z	4S	9A	View
Power Equipment Operators-Underground Sewer & Water	Ditch Witch Or Similar	$58.73	7Z	4S	9A	View
Power Equipment Operators-Underground Sewer & Water	Dope Pots (power Agitated	$58.73	7Z	4S	9A	View
Power Equipment Operators-Underground Sewer & Water	Dozer / Tractor (up To D-5 Or Equivalent) And Traxcavator	$59.44	7Z	4S	9A	View
Power Equipment Operators-Underground Sewer & Water	Dozer / Tractors (d-6 & Equivalent & Over)	$60.14	7Z	4S	9A	View
Power Equipment Operators-Underground Sewer & Water	Dozer, 834 R/t & Similar	$60.14	7Z	4S	9A	View
Power Equipment Operators-Underground Sewer & Water	Drill Doctor	$60.14	7Z	4S	9A	View
Power Equipment Operators-Underground Sewer & Water	Driller Licensed	$62.33	7Z	4S	9A	View
Power Equipment Operators-Underground Sewer & Water	Drillers Helper	$58.36	7Z	4S	9A	View
Power Equipment Operators-Underground Sewer & Water	Drilling Equipment (8 inch Bit & Over - Robbins, Reverse Circulation & Similar)	$59.82	7Z	4S	9A	View

Power Equipment Operators-Underground Sewer & Water	Drills (churn, Core, Calyx Or Diamond)	$59.63	7Z	4S	9A	View
Power Equipment Operators-Underground Sewer & Water	Elevating Belt (holland Type)	$60.46	7Z	4S	9A	View
Power Equipment Operators-Underground Sewer & Water	Elevating Belt-type Loader (euclid, Barber Green & Similar)	$59.44	7Z	4S	9A	View
Power Equipment Operators-Underground Sewer & Water	Elevating Grader-type Loader (dumor, Adams Or Similar)	$59.44	7Z	4S	9A	View
Power Equipment Operators-Underground Sewer & Water	Elevator Hoisting Materials	$58.73	7Z	4S	9A	View
Power Equipment Operators-Underground Sewer & Water	Equipment Serviceman, Greaser & Oiler	$59.63	7Z	4S	9A	View
Power Equipment Operators-Underground Sewer & Water	Fireman & Heater Tender	$58.36	7Z	4S	9A	View
Power Equipment Operators-Underground Sewer & Water	Fork Lift Or Lumber Stacker, Hydra-life & Similar	$58.73	7Z	4S	9A	View
Power Equipment Operators-Underground Sewer & Water	Generator Plant Engineers (diesel Or Electric)	$59.44	7Z	4S	9A	View
Power Equipment Operators-Underground Sewer & Water	Gin Trucks (pipeline)	$58.73	7Z	4S	9A	View
Power Equipment Operators-Underground Sewer & Water	Grade Checker	$59.82	7Z	4S	9A	View
Power Equipment Operators-Underground Sewer & Water	Gunite Combination Mixer & Compressor	$59.44	7Z	4S	9A	View

Power Equipment Operators-Underground Sewer & Water	H.d. Mechanic	$60.46	7Z	4S	9A	View
Power Equipment Operators-Underground Sewer & Water	H.d. Welder	$60.46	7Z	4S	9A	View
Power Equipment Operators-Underground Sewer & Water	Heavy Equipment Robotics Operator	$60.46	7Z	4S	9A	View
Power Equipment Operators-Underground Sewer & Water	Helicopter Pilot	$62.33	7Z	4S	9A	View
Power Equipment Operators-Underground Sewer & Water	Helper, Mechanic Or Welder, H.D	$58.36	7Z	4S	9A	View
Power Equipment Operators-Underground Sewer & Water	Hoe Ram	$59.82	7Z	4S	9A	View
Power Equipment Operators-Underground Sewer & Water	Hoist (2 Or More Drums Or Tower Hoist)	$59.63	7Z	4S	9A	View
Power Equipment Operators-Underground Sewer & Water	Hoist, Single Drum	$58.73	7Z	4S	9A	View
Power Equipment Operators-Underground Sewer & Water	Hydraulic Platform Trailers (goldhofer, Shaurerly And Similar)	$60.46	7Z	4S	9A	View
Power Equipment Operators-Underground Sewer & Water	Hydro-seeder, Mulcher, Nozzleman	$58.36	7Z	4S	9A	View
Power Equipment Operators-Underground Sewer & Water	Lime Batch Tank Operator (recycle Train)	$60.14	7Z	4S	9A	View
Power Equipment Operators-Underground Sewer & Water	Lime Brain Operator (recycle Train)	$60.14	7Z	4S	9A	View
Power Equipment Operators-Underground Sewer & Water	Loader (360 Degrees Revolving Koehring	$60.46	7Z	4S	9A	View

	Scooper Or Similar)					
Power Equipment Operators-Underground Sewer & Water	Loader Operator (front-end & Overhead, 4 Yds. Incl. 8 Yds.)	$60.14	**7Z**	**4S**	**9A**	**View**
Power Equipment Operators-Underground Sewer & Water	Loaders (bucket Elevators And Conveyors)	$58.73	**7Z**	**4S**	**9A**	**View**
Power Equipment Operators-Underground Sewer & Water	Loaders (overhead & Front-end, Over 8 Yds.)	$60.46	**7Z**	**4S**	**9A**	**View**
Power Equipment Operators-Underground Sewer & Water	Loaders (overhead & Front-end, Under 4 Yds.. R/t)	$59.63	**7Z**	**4S**	**9A**	**View**
Power Equipment Operators-Underground Sewer & Water	Locomotive Engineer	$59.44	**7Z**	**4S**	**9A**	**View**
Power Equipment Operators-Underground Sewer & Water	Longitudinal Float	$58.73	**7Z**	**4S**	**9A**	**View**
Power Equipment Operators-Underground Sewer & Water	Master Environmental Maintenance Technician	$60.46	**7Z**	**4S**	**9A**	**View**
Power Equipment Operators-Underground Sewer & Water	Mixer (portable - Concrete)	$58.73	**7Z**	**4S**	**9A**	**View**
Power Equipment Operators-Underground Sewer & Water	Mixermobile	$59.44	**7Z**	**4S**	**9A**	**View**
Power Equipment Operators-Underground Sewer & Water	Mobile Crusher Operator (recycle Train)	$60.14	**7Z**	**4S**	**9A**	**View**
Power Equipment Operators-Underground Sewer & Water	Mucking Machine	$59.44	**7Z**	**4S**	**9A**	**View**

Power Equipment Operators-Underground Sewer & Water	Multiple Dozer Units With Single Blade	$60.14	7Z	4S	9A	View
Power Equipment Operators-Underground Sewer & Water	Pavement Breaker, Hydra-hammer & Similar	$58.73	7Z	4S	9A	View
Power Equipment Operators-Underground Sewer & Water	Paving (dual Drum)	$59.82	7Z	4S	9A	View
Power Equipment Operators-Underground Sewer & Water	Paving Machine (asphalt And Concrete)	$60.14	7Z	4S	9A	View
Power Equipment Operators-Underground Sewer & Water	Piledriving Engineers	$59.82	7Z	4S	9A	View
Power Equipment Operators-Underground Sewer & Water	Plant Oiler	$58.36	7Z	4S	9A	View
Power Equipment Operators-Underground Sewer & Water	Posthole Auger Or Punch	$59.44	7Z	4S	9A	View
Power Equipment Operators-Underground Sewer & Water	Power Broom	$58.73	7Z	4S	9A	View
Power Equipment Operators-Underground Sewer & Water	Pump (grout Or Jet)	$59.44	7Z	4S	9A	View
Power Equipment Operators-Underground Sewer & Water	Pumpman	$58.36	7Z	4S	9A	View
Power Equipment Operators-Underground Sewer & Water	Quad-track Or Similar Equipment	$60.14	7Z	4S	9A	View
Power Equipment Operators-Underground Sewer & Water	Railroad Ballast Regulation Operator (self-propelled)	$58.73	7Z	4S	9A	View
Power Equipment Operators-Underground Sewer & Water	Railroad Power Tamper Operator	$58.73	7Z	4S	9A	View

	(self-propelled)					
Power Equipment Operators-Underground Sewer & Water	Railroad Tamper Jack Operator (self-propelled)	$58.73	7Z	4S	9A	View
Power Equipment Operators-Underground Sewer & Water	Railroad Track Liner Operator (self-propelled)	$59.82	7Z	4S	9A	View
Power Equipment Operators-Underground Sewer & Water	Refrigeration Plant Engineer (1000 Tons & Over)	$59.82	7Z	4S	9A	View
Power Equipment Operators-Underground Sewer & Water	Refrigeration Plant Engineer (under 1000 Ton)	$59.63	7Z	4S	9A	View
Power Equipment Operators-Underground Sewer & Water	Rollerman (finishing Asphalt Pavement)	$60.14	7Z	4S	9A	View
Power Equipment Operators-Underground Sewer & Water	Rollers, All Types On Subgrade, Including Seal And Chip Coating (farm Type, Case, John Deere And Similar,or Compacting Vibrator), Except When Pulled B	$58.36	7Z	4S	9A	View
Power Equipment Operators-Underground Sewer & Water	Roto Mill (pavement Grinder)	$60.14	7Z	4S	9A	View
Power Equipment Operators-Underground Sewer & Water	Rotomill Groundsman	$59.63	7Z	4S	9A	View
Power Equipment Operators-Underground Sewer & Water	Rubber-tired Scrapers (multiple Engine With Three Or More Scrapers)	$60.46	7Z	4S	9A	View

Power Equipment Operators-Underground Sewer & Water	Rubber-tired Skidders (r/t With Or Without Attachments)	$59.63	7Z	4S	9A	View
Power Equipment Operators-Underground Sewer & Water	Scrapers, All, Rubber-tired	$60.14	7Z	4S	9A	View
Power Equipment Operators-Underground Sewer & Water	Screed Operator	$60.14	7Z	4S	9A	View
Power Equipment Operators-Underground Sewer & Water	Shovels (3 Yds. & Over)	$60.46	7Z	4S	9A	View
Power Equipment Operators-Underground Sewer & Water	Shovels (under 3 Yds.)	$60.14	7Z	4S	9A	View
Power Equipment Operators-Underground Sewer & Water	Signalman (whirleys, Highline, Hammerheads Or Similar)	$59.82	7Z	4S	9A	View
Power Equipment Operators-Underground Sewer & Water	Soil Stabilizer (p & H Or Similar)	$59.44	7Z	4S	9A	View
Power Equipment Operators-Underground Sewer & Water	Spray Curing Machine (concrete)	$58.73	7Z	4S	9A	View
Power Equipment Operators-Underground Sewer & Water	Spreader Box (self-propelled)	$58.73	7Z	4S	9A	View
Power Equipment Operators-Underground Sewer & Water	Spreader Machine	$59.44	7Z	4S	9A	View
Power Equipment Operators-Underground Sewer & Water	Steam Cleaner	$58.36	7Z	4S	9A	View
Power Equipment Operators-Underground Sewer & Water	Straddle Buggy (ross & Similar On Construction Job Only)	$58.73	7Z	4S	9A	View

Power Equipment Operators-Underground Sewer & Water	Surface Heater & Planer Machine	$59.63	7Z	4S	9A	View
Power Equipment Operators-Underground Sewer & Water	Tractor (farm Type R/t With Attachments, Except Backhoe)	$58.73	7Z	4S	9A	View
Power Equipment Operators-Underground Sewer & Water	Traverse Finish Machine	$59.44	7Z	4S	9A	View
Power Equipment Operators-Underground Sewer & Water	Trenching Machines (7 Ft. Depth & Over)	$60.14	7Z	4S	9A	View
Power Equipment Operators-Underground Sewer & Water	Trenching Machines (under 7 Ft. Depth Capacity)	$59.63	7Z	4S	9A	View
Power Equipment Operators-Underground Sewer & Water	Tug Boat Operator	$60.14	7Z	4S	9A	View
Power Equipment Operators-Underground Sewer & Water	Tugger Operator	$58.73	7Z	4S	9A	View
Power Equipment Operators-Underground Sewer & Water	Turnhead (with Re-screening)	$59.63	7Z	4S	9A	View
Power Equipment Operators-Underground Sewer & Water	Turnhead Operator	$59.44	7Z	4S	9A	View
Power Equipment Operators-Underground Sewer & Water	Ultra High Pressure Wateriet Cutting Tool System Operator, (30,000 Psi)	$60.46	7Z	4S	9A	View
Power Equipment Operators-Underground Sewer & Water	Vactor Guzzler, Super Sucker	$60.14	7Z	4S	9A	View
Power Equipment Operators-Underground Sewer & Water	Vacuum Blasting Machine Operator	$60.46	7Z	4S	9A	View

Power Equipment Operators-Underground Sewer & Water	Vacuum Drill (reverse Circulation Drill Under 8 Inch Bit)	$59.63	**7Z**	**4S**	**9A**	**View**
Power Equipment Operators-Underground Sewer & Water	Welding Machine	$58.36	**7Z**	**4S**	**9A**	**View**
Power Equipment Operators-Underground Sewer & Water	Whirleys & Hammerheads, All	$60.46	**7Z**	**4S**	**9A**	**View**
Power Line Clearance Tree Trimmers	Journey Level In Charge	$64.20	**5A**	**4A**		**View**
Power Line Clearance Tree Trimmers	Spray Person	$60.74	**5A**	**4A**		**View**
Power Line Clearance Tree Trimmers	Tree Equipment Operator	$64.20	**5A**	**4A**		**View**
Power Line Clearance Tree Trimmers	Tree Trimmer	$57.29	**5A**	**4A**		**View**
Power Line Clearance Tree Trimmers	Tree Trimmer Groundperson	$43.05	**5A**	**4A**		**View**
Refrigeration & Air Conditioning Mechanics	Journey Level	$97.01	**6Z**	**1Q**		**View**
Residential Brick Mason	Journey Level	$59.64	**5A**	**1M**		**View**
Residential Carpenters	Journey Level	$22.73		**1**		**View**
Residential Cement Masons	Journey Level	$56.59	**7B**	**1N**		**View**
Residential Drywall Applicators	Journey Level	$26.40		**1**		**View**
Residential Drywall Tapers	Journey Level	$42.98		**1**		**View**
Residential Electricians	Journey Level	$38.60	**5A**	**11F**		**View**

Residential Glaziers	Journey Level	$16.66		**1**	**View**
Residential Insulation Applicators	Journey Level	$20.50		**1**	**View**
Residential Laborers	Journey Level	$22.73		**1**	**View**
Residential Marble Setters	Journey Level	$59.64	**5A**	**1M**	**View**
Residential Painters	Journey Level	$19.86		**1**	**View**
Residential Plumbers & Pipefitters	Journey Level	$32.35		**1**	**View**
Residential Refrigeration & Air Conditioning Mechanics	Journey Level	$37.30	**5A**	**11R**	**View**
Residential Sheet Metal Workers	Journey Level (Field or Shop)	$54.13	**5A**	**1X**	**View**
Residential Soft Floor Layers	Journey Level	$23.11	**5A**	**1N**	**View**
Residential Sprinkler Fitters (Fire Protection)	Journey Level	$18.40		**1**	**View**
Residential Stone Masons	Journey Level	$59.64	**5A**	**1M**	**View**
Residential Terrazzo Workers	Journey Level	$16.66		**1**	**View**
Residential Terrazzo/Tile Finishers	Journey Level	$16.66		**1**	**View**
Residential Tile Setters	Journey Level	$19.41		**1**	**View**
Roofers	Irritable Bituminous Roofer	$51.03	**7G**	**4I**	**View**
Roofers	Journeyman Roofer, Waterproofer, Kettleman	$48.03	**7G**	**4I**	**View**

Sheet Metal Workers	Journey Level (Field or Shop)	$75.05	**5A**	**1X**	**View**
Sign Makers & Installers (Electrical)	Journey Level	$16.66		**1**	**View**
Sign Makers & Installers (Non-Electrical)	Journey Level	$16.66		**1**	**View**
Soft Floor Layers	Journey Level	$59.52	**7C**	**3J**	**View**
Solar Controls For Windows	Journey Level	$16.66		**1**	**View**
Sprinkler Fitters (Fire Protection)	Journey Level	$69.91	**7J**	**1R**	**View**
Stage Rigging Mechanics (Non Structural)	Journey Level	$16.66		**1**	**View**
Stone Masons	Journey Level	$59.64	**5A**	**1M**	**View**
Street And Parking Lot Sweeper Workers	Journey Level	$16.66		**1**	**View**
Surveyors	All Classifications	$24.27	**0**	**1**	**View**
Telecommunication Technicians	Journey Level	$53.13	**5I**	**1B**	**View**
Telephone Line Construction - Outside	Cable Splicer	$41.35	**5A**	**2B**	**View**
Telephone Line Construction - Outside	Hole Digger/Ground Person	$27.31	**5A**	**2B**	**View**
Telephone Line Construction - Outside	Telephone Equipment Operator (Light)	$34.53	**5A**	**2B**	**View**
Telephone Line Construction - Outside	Telephone Lineperson	$39.07	**5A**	**2B**	**View**

Terrazzo Workers	Journey Level	$43.81	**5A**	**1M**	**View**
Tile Setters	Journey Level	$43.81	**5A**	**1M**	**View**
Tile, Marble & Terrazzo Finishers	Journey Level	$35.93	**5A**	**1M**	**View**
Traffic Control Stripers	All cleanup required in connection with traffic control stripers work (Group 1)	$92.44	**15L**	**1K**	**View**
Traffic Control Stripers	Handling, painting and installing of all car stops, stop signs and any other type sign (Group 2)	$55.54	**15L**	**1K**	**View**
Traffic Control Stripers	Installation of guard rail and posts and similar protective devices (Group 2)	$55.54	**15L**	**1K**	**View**
Traffic Control Stripers	Installation of parking gates, ticket spitters and other mechanical and automatic control devices (Group 2)	$55.54	**15L**	**1K**	**View**
Traffic Control Stripers	Installation of plastic metal or composition button, or lines used instead of paint (Group 1)	$92.44	**15L**	**1K**	**View**

Traffic Control Stripers	Line removal; chemical sand and hydro-blast, paint and button (Group 1)	$92.44	**15L**	**1K**	**View**
Traffic Control Stripers	Manufacturing and installation of all car stops and control devices and similar traffic regulators (Group 2)	$55.54	**15L**	**1K**	**View**
Traffic Control Stripers	Manufacturing, painting, stenciling, servicing, repairing, placing and removal of traffic safety and control devices/barricades (Group 2)	$55.54	**15L**	**1K**	**View**
Traffic Control Stripers	Painting and installing lines, arrows, bumpers, curbs, etc., on parking lots, air fields, highways, game courts (Group 1)	$92.44	**15L**	**1K**	**View**
Traffic Control Stripers	Preparation and maintenance of all surfaces (Group 1)	$92.44	**15L**	**1K**	**View**
Traffic Control Stripers	Seal coating, slurry coating and other surface protection (Group 2)	$55.54	**15L**	**1K**	**View**

Truck Drivers	Asphalt Mix Over 20 Yards	$59.45	**5D**	**1V**	**8M**	**View**
Truck Drivers	Asphalt Mix To 20 Yards	$59.25	**5D**	**1V**	**8M**	**View**
Truck Drivers	Dump Truck	$59.25	**5D**	**1V**	**8M**	**View**
Truck Drivers	Dump Truck & Trailer	$59.45	**5D**	**1V**	**8M**	**View**
Truck Drivers	Other Trucks	$59.14	**5D**	**1V**	**8M**	**View**
Truck Drivers - Ready Mix	Transit Mixers 20 yards and under	$59.45	**5D**	**1V**	**8M**	**View**
Truck Drivers - Ready Mix	Transit Mixers over 20 yards	$59.79	**5D**	**1V**	**8M**	**View**
Well Drillers & Irrigation Pump Installers	Irrigation Pump Installer	$16.66		**1**		**View**
Well Drillers & Irrigation Pump Installers	Oiler	$16.66		**1**		**View**
Well Drillers & Irrigation Pump Installers	Well Driller	$18.00		**1**		**View**

Clark County

Trade^	Job Classification	Wage	Holiday	Overtime	Note	Risk Class
Asbestos Abatement Workers	Journey Level	$59.48	**6Z**	**1M**		**View**
Boilermakers	Journey Level	$77.39	**5N**	**1C**		**View**
Brick Mason	Brick Finisher	$48.08	**5A**	**1B**		**View**
Brick Mason	Caulker-Pointer-Cleaner	$74.09	**5A**	**1B**		**View**

Brick Mason	Journey Level	$74.09	**5A**	**1B**		**View**
Building Service Employees	Janitor	$24.14	**6G**	**1**		**View**
Building Service Employees	Shampooer	$24.14	**6G**	**1**		**View**
Building Service Employees	Waxer	$24.14	**6G**	**1**		**View**
Building Service Employees	Window Cleaner	$31.56	**6G**	**1**		**View**
Cabinet Makers (In Shop)	Journey Level	$16.66		**1**		**View**
Carpenters	Acoustical Worker	$67.80	**15J**	**11U**	**9L**	**View**
Carpenters	Bridge & Highway Carpenter	$69.08	**15J**	**11U**	**9L**	**View**
Carpenters	Floor Layer And Floor Finishers	$67.97	**15J**	**11U**	**9L**	**View**
Carpenters	General Carpenter	$67.80	**15J**	**11U**	**9L**	**View**
Carpenters	Scaffold/Shoring Erecting & Dismantling	$67.70	**15J**	**11U**	**9L**	**View**
Carpenters	Stationary Power Saw	$67.97	**15J**	**11U**	**9L**	**View**
Cement Masons	Journey Level	$65.18	**7E**	**1H**		**View**
Divers & Tenders	Assistant Tender	$75.35	**15J**	**11T**	**9I**	**View**
Divers & Tenders	Bell/Vehicle or Submersible Operator Not Under Pressure	$124.92	**15J**	**11T**	**9I**	**View**
Divers & Tenders	Dive Master	$94.29	**15J**	**11T**	**9I**	**View**
Divers & Tenders	Dive Supervisor	$94.29	**15J**	**11T**	**9I**	**View**

Divers & Tenders	Diver Diving	$124.92	**15J**	**11T**	**9I**	**View**
Divers & Tenders	Diver Tender	$80.92	**15J**	**11T**	**9I**	**View**
Divers & Tenders	Divers Including Stand-By Diver	$89.29	**15J**	**11T**	**9I**	**View**
Divers & Tenders	Manifold Operator	$85.92	**15J**	**11T**	**9I**	**View**
Divers & Tenders	Manifold Operator Mixed Gas	$90.92	**15J**	**11T**	**9I**	**View**
Divers & Tenders	ROV Operator	$80.92	**15J**	**11T**	**9I**	**View**
Divers & Tenders	ROV Tender/Technician	$75.35	**15J**	**11T**	**9I**	**View**
Dredge Workers	Assistant Engineer	$72.54	**5D**	**1N**	**8D**	**View**
Dredge Workers	Assistant Mate (deckhand)	$67.18	**5D**	**1N**	**8D**	**View**
Dredge Workers	Boatman (licensed)	$72.54	**5D**	**1N**	**8D**	**View**
Dredge Workers	Fill Equipment Operator	$69.88	**5D**	**1N**	**8D**	**View**
Dredge Workers	Fireman	$71.05	**5D**	**1N**	**8D**	**View**
Dredge Workers	Leverman (hydraulic & Clamshell)	$75.70	**5D**	**1N**	**8D**	**View**
Dredge Workers	Mate	$72.54	**5D**	**1N**	**8D**	**View**
Dredge Workers	Oiler	$67.18	**5D**	**1N**	**8D**	**View**
Dredge Workers	Tenderman (boatman Attending Dredge Plant)	$71.05	**5D**	**1N**	**8D**	**View**

Dredge Workers	Welder	$72.54	**5D**	**1N**	**8D**	**View**
Drywall Applicator	Journey Level	$67.80	**5A**	**1B**		**View**
Drywall Tapers	Journey Level	$66.95	**7E**	**1E**		**View**
Electrical Fixture Maintenance Workers	Journey Level	$26.96		**1**		**View**
Electricians - Inside	Journey Level	$95.68	**5A**	**1B**		**View**
Electricians - Inside	Journeyman, Welder	$102.22	**5A**	**1B**		**View**
Electricians - Motor Shop	Craftsman	$16.66		**1**		**View**
Electricians - Motor Shop	Journey Level	$16.66		**1**		**View**
Electricians - Powerline Construction	Cable Splicer	$102.42	**5A**	**4D**		**View**
Electricians - Powerline Construction	Certified Line Welder	$93.99	**5A**	**4D**		**View**
Electricians - Powerline Construction	Groundperson	$59.30	**5A**	**4D**		**View**
Electricians - Powerline Construction	Heavy Line Equipment Operator	$93.99	**5A**	**4D**		**View**
Electricians - Powerline Construction	Journey Level Lineperson	$93.99	**5A**	**4D**		**View**
Electricians - Powerline Construction	Line Equipment Operator	$80.96	**5A**	**4D**		**View**
Electricians - Powerline Construction	Meter Installer	$59.30	**5A**	**4D**	**8W**	**View**
Electricians - Powerline Construction	Pole Sprayer	$93.99	**5A**	**4D**		**View**

Electricians - Powerline Construction	Powderperson	$69.84	**5A**	**4D**		**View**
Electronic Technicians	Journey Level	$79.08	**5A**	**1B**		**View**
Elevator Constructors	Mechanic	$115.62	**5N**	**4A**		**View**
Elevator Constructors	Mechanic In Charge	$125.08	**5N**	**4A**		**View**
Fabricated Precast Concrete Products	Journey Level	$16.66		**1**		**View**
Fabricated Precast Concrete Products	Journey Level - In-Factory Work Only	$16.66		**1**		**View**
Fence Erectors	Fence Erector	$54.63	**6Z**	**1M**	**8S**	**View**
Fence Erectors	Fence Laborer	$54.63	**6Z**	**1M**	**8S**	**View**
Flaggers	Journey Level	$54.63	**6Z**	**1M**	**8S**	**View**
Glaziers	Journey Level	$76.47	**7I**	**11K**		**View**
Heat & Frost Insulators And Asbestos Workers	Mechanic	$85.39	**5N**	**1F**		**View**
Heating Equipment Mechanics	Mechanic	$83.90	**5A**	**1B**		**View**
Hod Carriers & Mason Tenders	Journey Level	$62.10	**5D**	**1B**		**View**
Industrial Power Vacuum Cleaner	Journey Level	$18.50		**1**		**View**
Inland Boatmen	Boat Operator	$71.28	**5B**	**1K**		**View**
Inland Boatmen	Cook	$69.70	**5B**	**1K**		**View**

Inland Boatmen	Deckhand	$70.00	**5B**	**1K**		**View**
Inland Boatmen	Deckhand Engineer	$69.55	**5B**	**1K**		**View**
Inland Boatmen	Launch Operator	$71.23	**5B**	**1K**		**View**
Inland Boatmen	Mate	$89.12	**5B**	**1K**		**View**
Inspection/Cleaning/Sealing Of Sewer & Water Systems By Remote Control	Cleaner Operator, Foamer Operator	$16.66		**1**		**View**
Inspection/Cleaning/Sealing Of Sewer & Water Systems By Remote Control	Grout Truck Operator	$16.66		**1**		**View**
Inspection/Cleaning/Sealing Of Sewer & Water Systems By Remote Control	Head Operator	$16.66		**1**		**View**
Inspection/Cleaning/Sealing Of Sewer & Water Systems By Remote Control	Technician	$17.39		**1**		**View**
Inspection/Cleaning/Sealing Of Sewer & Water Systems By Remote Control	Tv Truck Operator	$16.66		**1**		**View**
Insulation Applicators	Journey Level	$67.97	**15J**	**11U**	**9L**	**View**
Ironworkers	Journey Level	$81.13	**15K**	**11N**		**View**
Laborers	Anchor Machines	$59.48	**6Z**	**1M**		**View**
Laborers	Application (Including Pot Power Tender For Same), Applying Protective Material By Hand Or Nozzle On	$58.86	**6Z**	**1M**		**View**

	Utility Lines Or Storage Tanks On Project				
Laborers	Asbestos Removal	$59.48	6Z	1M	View
Laborers	Asphalt Plant Laborers	$58.04	6Z	1M	View
Laborers	Asphalt Raker	$60.00	6Z	1M	View
Laborers	Asphalt Spreaders	$58.04	6Z	1M	View
Laborers	Ballast Regulators	$59.48	6Z	1M	View
Laborers	Batch Weighman	$58.04	6Z	1M	View
Laborers	Bit Grinder	$59.48	6Z	1M	View
Laborers	Brick Pavers (Dry)	$58.04	6Z	1M	View
Laborers	Broomers	$58.04	6Z	1M	View
Laborers	Brush (Power Saw)	$58.86	6Z	1M	View
Laborers	Brush Burners And Cutters	$58.04	6Z	1M	View
Laborers	Burners	$58.86	6Z	1M	View
Laborers	Car And Truck Loaders	$58.04	6Z	1M	View
Laborers	Carpenter Tender	$58.04	6Z	1M	View
Laborers	Change-house Man Or Dry Shack Man	$58.04	6Z	1M	View
Laborers	Chipping Guns	$58.86	6Z	1M	View
Laborers	Choker Setters	$58.04	6Z	1M	View

Laborers	Choker Splicer	$58.86	6Z	1M		View
Laborers	Chuck Tender	$58.86	6Z	1M		View
Laborers	Clary Power Spreader And Similar Types	$58.86	6Z	1M		View
Laborers	Clean Up Laborers	$58.04	6Z	1M		View
Laborers	Clean-up Nozzleman-Green-Cutter (Concrete Rock, Etc.)	$58.86	6Z	1M		View
Laborers	Concrete Crew, Bull Gang	$58.86	6Z	1M		View
Laborers	Concrete Laborers	$58.86	6Z	1M		View
Laborers	Concrete Nozzlemen	$60.00	6Z	1M		View
Laborers	Concrete Power Buggyman	$58.86	6Z	1M		View
Laborers	Concrete Saw Operator	$59.48	6Z	1M		View
Laborers	Concrete Saw Operator (Walls)	$60.00	6Z	1M		View
Laborers	Confined Space / Hole Watch	$54.63	6Z	1M	8S	View
Laborers	Crusher Feeder	$58.86	6Z	1M		View
Laborers	Curing, Concrete	$58.04	6Z	1M		View
Laborers	Demolition And Wrecking Charred Materials	$58.86	6Z	1M		View

Laborers	Demolition, Wrecking And Moving Laborers	$58.04	6Z	1M		View
Laborers	Drill Doctor	$59.48	6Z	1M		View
Laborers	Drill Operators, Air Tracks, Cat Drills, Wagon Drills, Rubber-mounted Drills And Other Similar Types, Including At Crusher Plants	$60.00	6Z	1M		View
Laborers	Dry Pack Machine	$58.86	6Z	1M		View
Laborers	Dry Stack Walls	$58.04	6Z	1M		View
Laborers	Dumpers, Road Oiling Crew	$58.04	6Z	1M		View
Laborers	Dumpmen (for Grading Crew)	$58.04	6Z	1M		View
Laborers	Elevator Feeders	$58.04	6Z	1M		View
Laborers	Erosion Control Specialist	$58.04	6Z	1M		View
Laborers	Final Clean-up	$54.63	6Z	1M	8S	View
Laborers	Fine Graders	$58.04	6Z	1M		View
Laborers	Fire Watch	$54.63	6Z	1M	8S	View
Laborers	Form Strippers (Not Swinging Stages)	$58.04	6Z	1M		View
Laborers	General Laborer	$58.04	6Z	1M		View

Laborers	Grade Checker	$60.00	6Z	1M	View
Laborers	Guard Rail, Median Rail, Reference Post Guide Post, Right-of-way Marker	$58.04	6Z	1M	View
Laborers	Gunite Nozzleman	$60.00	6Z	1M	View
Laborers	Gunite Nozzleman Tender	$58.86	6Z	1M	View
Laborers	Gunite or Sand Blasting Pot Tender	$58.86	6Z	1M	View
Laborers	Hand Placed Sand Blasting (Wet)	$58.86	6Z	1M	View
Laborers	Handlers Or Mixers Of All Materials Of An Irritating Nature (Including Cement & Lime)	$58.86	6Z	1M	View
Laborers	Hazardous Waste Worker	$59.48	6Z	1M	View
Laborers	High Scalers, Strippers & Drillers (covers work in swinging stages, chairs or belts under extreme conditions unusual to normal drilling, blasting, barring down or slopping and stripping	$60.00	6Z	1M	View
Laborers	Laser Beam	$60.00	6Z	1M	View

Laborers	Laser Beam (Pipe Laying) - Applicable When Employee Assigned To Move, Set Up, Align	$60.00	6Z	1M	View
Laborers	Laser Beam (Tunnel) - Applicable When Employee Assigned To Move, Set Up, Align	$60.00	6Z	1M	View
Laborers	Lead Abatement	$59.48	6Z	1M	View
Laborers	Leverman Or Aggregate Spreaders (Flaherty And Similar Types)	$58.04	6Z	1M	View
Laborers	Loading Spotters	$58.04	6Z	1M	View
Laborers	Loop Installation	$60.00	6Z	1M	View
Laborers	Manhole Building	$59.48	6Z	1M	View
Laborers	Material Yard Man	$58.04	6Z	1M	View
Laborers	Miner - Tunnel	$60.00	6Z	1M	View
Laborers	Mold Remediation Or Removal	$59.48	6Z	1M	View
Laborers	Nippers And Timbermen	$59.48	6Z	1M	View
Laborers	Nuclear Plant Workers - Lead Shield, Power Saw Operators (Bucking & Falling)	$59.48	6Z	1M	View

Laborers	Pilot Car	$54.63	6Z	1M	8S	View
Laborers	Pipe Doping & Wrapping	$58.86	6Z	1M		View
Laborers	Pipe Layer All Types	$60.00	6Z	1M		View
Laborers	Pittsburgh Chipper Operator Or Similar Types	$58.04	6Z	1M		View
Laborers	Post Hold Digger, Air, Gas Or Electric	$58.86	6Z	1M		View
Laborers	Powderman - Tunnel	$60.00	6Z	1M		View
Laborers	Powderman Tender	$58.04	6Z	1M		View
Laborers	Power Jacks	$59.48	6Z	1M		View
Laborers	Pressure Washer	$58.86	6Z	1M		View
Laborers	Railroad Track Laborers	$58.04	6Z	1M		View
Laborers	Ribbon Setter, Head	$58.86	6Z	1M		View
Laborers	Ribbon Setters (Including Steel Forms)	$58.04	6Z	1M		View
Laborers	Rigger/Signalperson	$58.04	6Z	1M		View
Laborers	Rip Rap Man (Hand Packed)	$58.04	6Z	1M		View
Laborers	Rip Rap Man (Head)	$58.86	6Z	1M		View
Laborers	Road Pump Tender	$58.04	6Z	1M		View

Laborers	Sand Blasting (Dry)	$59.48	6Z	1M	View
Laborers	Scaffold Tender	$58.04	6Z	1M	View
Laborers	Sewer Labor	$58.04	6Z	1M	View
Laborers	Sewer Timbermen	$59.48	6Z	1M	View
Laborers	Signalman	$58.04	6Z	1M	View
Laborers	Skipman	$58.04	6Z	1M	View
Laborers	Slopers	$58.04	6Z	1M	View
Laborers	Spraymen	$58.04	6Z	1M	View
Laborers	Stake Chaser	$58.04	6Z	1M	View
Laborers	Stake-setter	$58.86	6Z	1M	View
Laborers	Stockpiler	$58.04	6Z	1M	View
Laborers	Tampers	$58.86	6Z	1M	View
Laborers	Tie Back Shoring	$58.86	6Z	1M	View
Laborers	Timber Faller And Bucker (Hand Labor)	$58.04	6Z	1M	View
Laborers	Tool Operators - Jackhammer	$58.86	6Z	1M	View
Laborers	Tool Operators - Paving Breakers	$58.86	6Z	1M	View
Laborers	Toolroom Man (At Job Site)	$58.04	6Z	1M	View
Laborers	Track Liners	$59.48	6Z	1M	View

Laborers	Traffic Control Laborer	$58.04	6Z	1M		View
Laborers	Traffic Control Supervisor	$58.86	6Z	1M		View
Laborers	Traffic Control Supervisor	$58.86	6Z	1M		View
Laborers	Tugger Operator	$59.48	6Z	1M		View
Laborers	Tunnel Bullgang (Above Ground)	$60.00	6Z	1M		View
Laborers	Tunnel Chuck Tenders	$60.00	6Z	1M		View
Laborers	Tunnel Motorman - Dinky Locomotive	$60.00	6Z	1M		View
Laborers	Tunnel Muckers, Brakemen	$60.00	6Z	1M		View
Laborers	Tunnel Shield Operator	$60.00	6Z	1M		View
Laborers	Vibrating Screed	$60.00	6Z	1M		View
Laborers	Vibrators (All Types)	$60.00	6Z	1M		View
Laborers	Water Blaster	$59.48	6Z	1M		View
Laborers	Weight-Man-Crusher (Aggregate When Used)	$58.04	6Z	1M		View
Laborers	Welder	$59.48	6Z	1M		View
Laborers - Underground Sewer & Water	General Laborer and Topman	$60.00	6Z	1M		View
Landscape Construction	Landscape Operator	$68.46	7B	4G	8U	View

Landscape Construction	Landscaping or Planting Laborer	$46.95	6Z	1M	8T	View
Landscape Maintenance	Groundskeeper	$16.66		1		View
Lathers	Journey Level	$67.80	5A	1B		View
Marble Setters	Journey Level	$75.09	5A	1B		View
Metal Fabrication (In Shop)	Fitter	$43.03	6H	1E		View
Metal Fabrication (In Shop)	Laborer	$31.76	6H	1E		View
Metal Fabrication (In Shop)	Layerout	$47.96	6H	1E		View
Metal Fabrication (In Shop)	Machine Operator	$43.43	6H	1E		View
Metal Fabrication (In Shop)	Painter	$40.73	6H	1E		View
Metal Fabrication (In Shop)	Welder	$43.03	6H	1E		View
Millwright	Journey Level	$80.28	5A	1B		View
Modular Buildings	Journey Level	$16.66		1		View
Painters	Bridge Painter	$60.44	7E	11L		View
Painters	Commercial Painter	$51.86	7E	11L		View
Painters	Industrial Painter	$53.93	7E	11L	9F	View
Pile Driver	Journey Level	$69.08	15J	11U	9L	View
Plasterers	Journey Level	$64.24	5H	1E		View
Playground & Park Equipment Installers	Journey Level	$16.66		1		View

Plumbers & Pipefitters	Journey Level	$99.52	**5Z**	**10**		**View**
Power Equipment Operators	Air Filtration Equipment(group 6)	$65.24	**7B**	**4G**	**8U**	**View**
Power Equipment Operators	Asphalt Plant (any Type) (assistant Engineer Required) (group 2)	$74.18	**7B**	**4G**	**8U**	**View**
Power Equipment Operators	Asphalt, Burner & Reconditioner (any Type), (asst To Engineer If Required) (group 5)	$68.46	**7B**	**4G**	**8U**	**View**
Power Equipment Operators	Asphalt, Extrusion Machine Operator(group 5)	$68.46	**7B**	**4G**	**8U**	**View**
Power Equipment Operators	Asphalt, Paver (screed Man Required)(group 4)	$69.70	**7B**	**4G**	**8U**	**View**
Power Equipment Operators	Asphalt, Pugmill (any Type)(group 6)	$65.24	**7B**	**4G**	**8U**	**View**
Power Equipment Operators	Asphalt, Raker(group 6)	$65.24	**7B**	**4G**	**8U**	**View**
Power Equipment Operators	Asphalt, Roller (any Asphalt Mix)(group 5)	$68.46	**7B**	**4G**	**8U**	**View**
Power Equipment Operators	Asphalt, Roto-mill, Pavement Profiler Under 8 Ft Lateral Cut(group 4)	$69.70	**7B**	**4G**	**8U**	**View**
Power Equipment Operators	Asphalt, Roto-mill, Pavement Profiler, 8 Ft	$74.18	**7B**	**4G**	**8U**	**View**

	Lateral Cut & Over(group 2)					
Power Equipment Operators	Asphalt, Roto-mill, Pavement Profiler, Groundman(group 5)	$68.46	**7B**	**4G**	**8U**	**View**
Power Equipment Operators	Asphalt, Screed(group 4)	$69.70	**7B**	**4G**	**8U**	**View**
Power Equipment Operators	Asphalt, Truck Mounted Spreader, With Screed(group 6)	$65.24	**7B**	**4G**	**8U**	**View**
Power Equipment Operators	Auger Oiler(group 6)	$65.24	**7B**	**4G**	**8U**	**View**
Power Equipment Operators	Auto Grader Or "trimmer" (grade Checker Required) (group 2)	$74.18	**7B**	**4G**	**8U**	**View**
Power Equipment Operators	Back Filling Machine (assistant To Engineer Required)(group 4)	$69.70	**7B**	**4G**	**8U**	**View**
Power Equipment Operators	Backhoe, Robotic, Track And Wheel Type Up To And Including 20,000 Lbs. With Any Attachments(group 4)	$69.70	**7B**	**4G**	**8U**	**View**
Power Equipment Operators	Band Wagons (in Conjuction With Whell Excavator)(group 2)	$74.18	**7B**	**4G**	**8U**	**View**
Power Equipment Operators	Bell Man (any Type Of Comunication)(group 6)	$65.24	**7B**	**4G**	**8U**	**View**

Power Equipment Operators	Blade Any Type(group 4)	$69.70	**7B**	**4G**	**8U**	**View**
Power Equipment Operators	Blade, Robotic(group 2)	$74.18	**7B**	**4G**	**8U**	**View**
Power Equipment Operators	Boatman(group 6)	$65.24	**7B**	**4G**	**8U**	**View**
Power Equipment Operators	Boatman, Licensed(group 4)	$69.70	**7B**	**4G**	**8U**	**View**
Power Equipment Operators	Bobcat, Skid Steer (< 1yd)(group 6)	$65.24	**7B**	**4G**	**8U**	**View**
Power Equipment Operators	Boom Type Lifting Device, 5 Ton Capacity Or Less(group 5)	$68.46	**7B**	**4G**	**8U**	**View**
Power Equipment Operators	Boring Machine (asst To Engineer Required) (group 4)	$69.70	**7B**	**4G**	**8U**	**View**
Power Equipment Operators	Broom Self-propelled, Construction Job Site(group 6)	$65.24	**7B**	**4G**	**8U**	**View**
Power Equipment Operators	Bulldozer Operator, 20,000 Lbs Or Less, Or 100 Horse Or Less(group 5)	$68.46	**7B**	**4G**	**8U**	**View**
Power Equipment Operators	Bulldozer Operator, Over 20,000 Lbs And More Than 100 Horse Up To 70,000 Lbs(group 4)	$69.70	**7B**	**4G**	**8U**	**View**
Power Equipment Operators	Bulldozer Over 70,000 Lbs Up To And	$73.03	**7B**	**4G**	**8U**	**View**

	Including 120,000 Lbs(group 3)					
Power Equipment Operators	Bulldozer Over 120,000 Lbs And Above(group 2)	$74.18	**7B**	**4G**	**8U**	**View**
Power Equipment Operators	Bulldozer Robotic Equipment(group 2)	$74.18	**7B**	**4G**	**8U**	**View**
Power Equipment Operators	Cable-plow (any Type) (group 4)	$69.70	**7B**	**4G**	**8U**	**View**
Power Equipment Operators	Cableway 25 Ton & Over(group 2)	$74.18	**7B**	**4G**	**8U**	**View**
Power Equipment Operators	Cableway Up To 25 Ton(group 4)	$69.70	**7B**	**4G**	**8U**	**View**
Power Equipment Operators	Canal Trimmer (grade Oiler Required)(group 2)	$74.18	**7B**	**4G**	**8U**	**View**
Power Equipment Operators	Cat Drill (john Henry) (group 4)	$69.70	**7B**	**4G**	**8U**	**View**
Power Equipment Operators	Cement Pump(group 5)	$68.46	**7B**	**4G**	**8U**	**View**
Power Equipment Operators	Challenger(group 4)	$69.70	**7B**	**4G**	**8U**	**View**
Power Equipment Operators	Chip Spreading Machine(group 5)	$68.46	**7B**	**4G**	**8U**	**View**
Power Equipment Operators	Chippers (asst To Engineer If Required) (group 4)	$69.70	**7B**	**4G**	**8U**	**View**
Power Equipment Operators	Churn Drill & Earth Boring Machine(group 5)	$68.46	**7B**	**4G**	**8U**	**View**

Power Equipment Operators	Combination Heavy Duty Mechanic-welder, When Required To Do Both(group 4)	$69.70	**7B**	**4G**	**8U**	**View**
Power Equipment Operators	Compactor Self Propelled Without Blade(group 5)	$68.46	**7B**	**4G**	**8U**	**View**
Power Equipment Operators	Compactor With Blade Self Propelled(group 4)	$69.70	**7B**	**4G**	**8U**	**View**
Power Equipment Operators	Compactor, Multi-engine(group 4)	$69.70	**7B**	**4G**	**8U**	**View**
Power Equipment Operators	Compactor, Robotic(group 4)	$69.70	**7B**	**4G**	**8U**	**View**
Power Equipment Operators	Compressor (any Power) 1,250 Cu Ft And Over Total Capacity(group 5)	$68.46	**7B**	**4G**	**8U**	**View**
Power Equipment Operators	Compressor Operator (any Power) Under 1,250 Cu Ft Total Capacity(group 6)	$65.24	**7B**	**4G**	**8U**	**View**
Power Equipment Operators	Concrete Batch Plant And/or Wet Mix (3 Units Or More) (group1)	$76.09	**7B**	**4G**	**8U**	**View**
Power Equipment Operators	Concrete Batch Plant And/or Wet Mix Operator (1 & 2 Drums) (group 2)	$74.18	**7B**	**4G**	**8U**	**View**
Power Equipment Operators	Concrete Batch Plant Quality Control(group 5)	$68.46	**7B**	**4G**	**8U**	**View**

Power Equipment Operators	Concrete Breaker (assistant To Engineer Required)(group 4)	$69.70	**7B**	**4G**	**8U**	**View**
Power Equipment Operators	Concrete Canal Line, Assistant To Engineer Required(group 2)	$74.18	**7B**	**4G**	**8U**	**View**
Power Equipment Operators	Concrete Curing Machine (riding Type) (group 6)	$65.24	**7B**	**4G**	**8U**	**View**
Power Equipment Operators	Concrete Diamond Head Profiler(group 2)	$74.18	**7B**	**4G**	**8U**	**View**
Power Equipment Operators	Concrete Paving Road Mixer(group 4)	$69.70	**7B**	**4G**	**8U**	**View**
Power Equipment Operators	Concrete Planer(group 5)	$68.46	**7B**	**4G**	**8U**	**View**
Power Equipment Operators	Concrete Saw(group 6)	$65.24	**7B**	**4G**	**8U**	**View**
Power Equipment Operators	Concrete, Automatic Slip Form Paver (asst To Engineer Required) (group 2)	$74.18	**7B**	**4G**	**8U**	**View**
Power Equipment Operators	Concrete, Combination Mixer & Compressor Operator, Gunite Work(group 5)	$68.46	**7B**	**4G**	**8U**	**View**
Power Equipment Operators	Concrete, Curb Machine Mechanical Berm, Curb And/or Curb And Gutter(group 5)	$68.46	**7B**	**4G**	**8U**	**View**

Power Equipment Operators	Concrete, Finishing Machine(group 5)	$68.46	**7B**	**4G**	**8U**	**View**
Power Equipment Operators	Concrete, Grout Plant(group 4)	$69.70	**7B**	**4G**	**8U**	**View**
Power Equipment Operators	Concrete, Grouting Machine(group 5)	$68.46	**7B**	**4G**	**8U**	**View**
Power Equipment Operators	Concrete, Joint Machine(group 5)	$68.46	**7B**	**4G**	**8U**	**View**
Power Equipment Operators	Concrete, Mixer Mobile(group 4)	$69.70	**7B**	**4G**	**8U**	**View**
Power Equipment Operators	Concrete, Mixer Single Drum Any Capacity(group 5)	$68.46	**7B**	**4G**	**8U**	**View**
Power Equipment Operators	Concrete, Paving Machine 8' And Less (asst To Engineer Required)(group 5)	$68.46	**7B**	**4G**	**8U**	**View**
Power Equipment Operators	Concrete, Placing Boom(group 5)	$68.46	**7B**	**4G**	**8U**	**View**
Power Equipment Operators	Concrete, Pump Truck(group 5)	$68.46	**7B**	**4G**	**8U**	**View**
Power Equipment Operators	Concrete, Pump(group 5)	$68.46	**7B**	**4G**	**8U**	**View**
Power Equipment Operators	Concrete, Pumpcrete Operator (any Type) (group 5)	$68.46	**7B**	**4G**	**8U**	**View**

Power Equipment Operators	Concrete, Reinforced Tank Banding Machine (asst To Engineer Required)(group 4)	$69.70	**7B**	**4G**	**8U**	**View**
Power Equipment Operators	Concrete, Slip Form Pumps, Power Driven Hydraulic Lifting Device For Concrete Forms(group 5)	$68.46	**7B**	**4G**	**8U**	**View**
Power Equipment Operators	Concrete, Spreader(group 5)	$68.46	**7B**	**4G**	**8U**	**View**
Power Equipment Operators	Concrete, Telebelt(group 5)	$68.46	**7B**	**4G**	**8U**	**View**
Power Equipment Operators	Concrete, Treated Base Roller Operator, Oiling(group 5)	$68.46	**7B**	**4G**	**8U**	**View**
Power Equipment Operators	Conveyor Operator Or Assistant(group 6)	$65.24	**7B**	**4G**	**8U**	**View**
Power Equipment Operators	Conveyored Material Hauler(group 5)	$68.46	**7B**	**4G**	**8U**	**View**
Power Equipment Operators	Crane, Bridge Locomotive, Gantry And Overhead(group 4)	$69.70	**7B**	**4G**	**8U**	**View**
Power Equipment Operators	Crane, Carry Deck(group 4)	$69.70	**7B**	**4G**	**8U**	**View**
Power Equipment Operators	Crane, Chicago Boom & Similar Types(group 4)	$69.70	**7B**	**4G**	**8U**	**View**

Power Equipment Operators	Crane, Floating (derrick Barge) 30 Ton But Less Than 150 Ton (asst To Engineer Required)(group 2)	$74.18	**7B**	**4G**	**8U**	**View**
Power Equipment Operators	Crane, Floating 150 Ton But Less Than 250 Ton (asst To Engineer Required) (group 1)	$76.09	**7B**	**4G**	**8U**	**View**
Power Equipment Operators	Crane, Floating 250 Ton And Over (asst To Engineer And Deckhand Required) (group 1)	$78.25	**7B**	**4G**	**8U**	**View**
Power Equipment Operators	Crane, Floating Clamshell 3 Cu. Yds. & Over (fireman Or Diesel Electric Engineer Required(group 2)	$74.18	**7B**	**4G**	**8U**	**View**
Power Equipment Operators	Crane, Floating Clamshell, Dragline Etc. Operator Under 3 Cu. Yds. Or Less Than 30 Ton (diesel-electric Engineer Required) (group 4)	$69.70	**7B**	**4G**	**8U**	**View**
Power Equipment Operators	Crane, Hydraulic 200 Ton Through 399 Ton (group 1)	$76.09	**7B**	**4G**	**8U**	**View**
Power Equipment Operators	Crane, Hydraulic 50 Ton Through 89 Ton	$74.18	**7B**	**4G**	**8U**	**View**

	With Luffing Or Tower Attachment(group 2)					
Power Equipment Operators	Crane, Hydraulic 50 Ton Through 89 Tons(group 3)	$73.03	**7B**	**4G**	**8U**	**View**
Power Equipment Operators	Crane, Hydraulic 90 Ton Through 199 Ton With Luffing Or Tower Attachment (group 1)	$76.09	**7B**	**4G**	**8U**	**View**
Power Equipment Operators	Crane, Hydraulic 90 Ton Through 199 Ton(group 2)	$74.18	**7B**	**4G**	**8U**	**View**
Power Equipment Operators	Crane, Hydraulic Crane 200 Ton Through 300 Ton With Luffing Or Tower Attachment(group 1)	$78.25	**7B**	**4G**	**8U**	**View**
Power Equipment Operators	Crane, Hydraulic Crane 400 Ton And Over(group 1)	$80.41	**7B**	**4G**	**8U**	**View**
Power Equipment Operators	Crane, Hydraulic Crane Over 300 Ton Through 399 Ton With Luffer Or Tower Attachment(group 1)	$80.41	**7B**	**4G**	**8U**	**View**
Power Equipment Operators	Crane, Hydraulic Under 50 Ton(group 4)	$69.70	**7B**	**4G**	**8U**	**View**
Power Equipment Operators	Crane, Lattice Boom 200 Ton Through 299 Ton, With Over 200' Boom(group 1)	$78.25	**7B**	**4G**	**8U**	**View**

Power Equipment Operators	Crane, Lattice Boom 300 Ton Through 399 Ton(group 1)	$78.25	**7B**	**4G**	**8U**	**View**
Power Equipment Operators	Crane, Lattice Boom 300 Ton Through 399 Ton, With Over 200' Boom(group 1)	$80.41	**7B**	**4G**	**8U**	**View**
Power Equipment Operators	Crane, Lattice Boom 50 Ton Through 89 Ton With 150' Boom Or Less(group 3)	$73.03	**7B**	**4G**	**8U**	**View**
Power Equipment Operators	Crane, Lattice Boom 50 Ton Through 89 Ton With Over 150' Boom	$74.18	**7B**	**4G**	**8U**	**View**
Power Equipment Operators	Crane, Lattice Boom 90 Ton Through 199 Ton With 150' - 200' Boom(group 2)	$74.18	**7B**	**4G**	**8U**	**View**
Power Equipment Operators	Crane, Lattice Boom Under 50 Ton(group 4)	$69.70	**7B**	**4G**	**8U**	**View**
Power Equipment Operators	Crane, Lattice Boom, 200 Ton Through 299 Ton With 200' Boom Or Less (group 1)	$76.09	**7B**	**4G**	**8U**	**View**
Power Equipment Operators	Crane, Lattice Boom, 90 Ton Through 199 Ton With Over 200' Boom (group 1)	$76.09	**7B**	**4G**	**8U**	**View**
Power Equipment Operators	Crane, Shovel, Dragline Or Clamshell 3 Cu. Yds.	$73.03	**7B**	**4G**	**8U**	**View**

	But Less Than 5 Cu. Yds. (asst To Engineer Required)(group 3)					
Power Equipment Operators	Crane, Tower Crane With 175' Tower Or Less And With Less Than 200' Jib(group 2)	$74.18	**7B**	**4G**	**8U**	**View**
Power Equipment Operators	Crane, Tower Crane With Over 175' Tower Or Over 200' Jib (group 1)	$76.09	**7B**	**4G**	**8U**	**View**
Power Equipment Operators	Crane, Tugger(group 6)	$65.24	**7B**	**4G**	**8U**	**View**
Power Equipment Operators	Crane, Whirley 90 Ton And Over (group 1)	$76.09	**7B**	**4G**	**8U**	**View**
Power Equipment Operators	Crane, Whirley Under 90 Ton(group 2)	$74.18	**7B**	**4G**	**8U**	**View**
Power Equipment Operators	Crusher Feederman(group 6)	$65.24	**7B**	**4G**	**8U**	**View**
Power Equipment Operators	Crusher Oiler(group 6)	$65.24	**7B**	**4G**	**8U**	**View**
Power Equipment Operators	Crusher Plant(group 2)	$74.18	**7B**	**4G**	**8U**	**View**
Power Equipment Operators	Deckhand(group 6)	$65.24	**7B**	**4G**	**8U**	**View**
Power Equipment Operators	Derrick Operator Under 100 Ton (two Operators Required When Swing Control Is Remote From Hoist) (group 4)	$69.70	**7B**	**4G**	**8U**	**View**
Power Equipment Operators	Diesel-electric Engineer (plant Or	$69.70	**7B**	**4G**	**8U**	**View**

	Floating)(group 4)					
Power Equipment Operators	Directional Drill Over 20,000 Lbs Pullback(group 4)	$69.70	**7B**	**4G**	**8U**	**View**
Power Equipment Operators	Drill Assistant(group 6)	$65.24	**7B**	**4G**	**8U**	**View**
Power Equipment Operators	Drill Cat Operator(group 4)	$69.70	**7B**	**4G**	**8U**	**View**
Power Equipment Operators	Drill Directional Type Less Than 20,ooo Lbs Pullback(group 5)	$68.46	**7B**	**4G**	**8U**	**View**
Power Equipment Operators	Drill Doctor And/or (bit Grinder)(group 4)	$69.70	**7B**	**4G**	**8U**	**View**
Power Equipment Operators	Drill Mud Mixer(group 5)	$68.46	**7B**	**4G**	**8U**	**View**
Power Equipment Operators	Drill Oscillator(group 4)	$69.70	**7B**	**4G**	**8U**	**View**
Power Equipment Operators	Drill, Directinal Locator(group 6)	$65.24	**7B**	**4G**	**8U**	**View**
Power Equipment Operators	Driller, Percussion, Diamond, Core, Cable, Rotary & Similar Type(group 4)	$69.70	**7B**	**4G**	**8U**	**View**
Power Equipment Operators	Elevating Grader Operator, Tractor Towed Requiring Operator Or Grader(group 5)	$68.46	**7B**	**4G**	**8U**	**View**
Power Equipment Operators	Elevating Loader Operator (any Type) (group 5)	$68.46	**7B**	**4G**	**8U**	**View**

Power Equipment Operators	Elevator To Move Personnel Or Materials(group 5)	$68.46	**7B**	**4G**	**8U**	**View**
Power Equipment Operators	Excavator Over 80,000 Lbs Through 130,000 Lbs(group 3)	$73.03	**7B**	**4G**	**8U**	**View**
Power Equipment Operators	Excavator Operator, Over 20,000 Lbs Through 80,000 Lbs(group 4)	$69.70	**7B**	**4G**	**8U**	**View**
Power Equipment Operators	Excavator Operator, Over 130,000 Lbs(group 2)	$74.18	**7B**	**4G**	**8U**	**View**
Power Equipment Operators	Fireman(group 6)	$65.24	**7B**	**4G**	**8U**	**View**
Power Equipment Operators	Floating, Crane 350 Ton And Over (asst To Engineer And Deckhand Required) (group 1)	$80.41	**7B**	**4G**	**8U**	**View**
Power Equipment Operators	Fork Lift(group 6)	$65.24	**7B**	**4G**	**8U**	**View**
Power Equipment Operators	Fork Lift, Over 10 Ton Or Robotic(group 5)	$68.46	**7B**	**4G**	**8U**	**View**
Power Equipment Operators	Generator Operator(group 4)	$69.70	**7B**	**4G**	**8U**	**View**
Power Equipment Operators	Grade Checker(group 6)	$65.24	**7B**	**4G**	**8U**	**View**
Power Equipment Operators	Grade Setter / Layout From Plans(group 4)	$69.70	**7B**	**4G**	**8U**	**View**

Power Equipment Operators	Grade-all(group 4)	$69.70	**7B**	**4G**	**8U**	**View**
Power Equipment Operators	Guardrail Machines, I.e. Punch, Auger, Etc. (group 4)	$69.70	**7B**	**4G**	**8U**	**View**
Power Equipment Operators	Guardrail Punch Oiler(group 6)	$65.24	**7B**	**4G**	**8U**	**View**
Power Equipment Operators	Hammer Operator (pile Driver)(group 4)	$69.70	**7B**	**4G**	**8U**	**View**
Power Equipment Operators	Heavy Duty Repairman Assistant(group 6)	$65.24	**7B**	**4G**	**8U**	**View**
Power Equipment Operators	Heavy Equipment Robotics Operator Or Mechanic(group 2)	$74.18	**7B**	**4G**	**8U**	**View**
Power Equipment Operators	Helicopter Hoist(group 5)	$68.46	**7B**	**4G**	**8U**	**View**
Power Equipment Operators	Helicopter Radioman (ground)(group 6)	$65.24	**7B**	**4G**	**8U**	**View**
Power Equipment Operators	Helicopter When Used In Erecting Workcrane(group 1)	$76.09	**7B**	**4G**	**8U**	**View**
Power Equipment Operators	Hoist Operator, Single Drum(group 5)	$68.46	**7B**	**4G**	**8U**	**View**
Power Equipment Operators	Hoist, 2 Drums Or More(group 4)	$69.70	**7B**	**4G**	**8U**	**View**
Power Equipment Operators	Hoist, Stiff Leg, Guy Derrick Or Similar Type, 50 Ton And Over(group 4)	$69.70	**7B**	**4G**	**8U**	**View**

Power Equipment Operators	Hydraulic Backhoe Track Type Up To And Including 20,000 Lbs(group 5)	$68.46	**7B**	**4G**	**8U**	**View**
Power Equipment Operators	Hydraulic Backhoe Wheel Type (any Make) (group 5)	$68.46	**7B**	**4G**	**8U**	**View**
Power Equipment Operators	Hydraulic Pipe Press(group 6)	$65.24	**7B**	**4G**	**8U**	**View**
Power Equipment Operators	Hydro Axe (loader Mounted Or Similar Type)(group 4)	$69.70	**7B**	**4G**	**8U**	**View**
Power Equipment Operators	Hydrographic Seeder Machine Straw, Pulp Or Seed(group 6)	$65.24	**7B**	**4G**	**8U**	**View**
Power Equipment Operators	Hydrostatic Pump Operator(group 6)	$65.24	**7B**	**4G**	**8U**	**View**
Power Equipment Operators	Internal Full Slab Vibrator Operator(group 5)	$68.46	**7B**	**4G**	**8U**	**View**
Power Equipment Operators	Jack Operator, Elevating Barges, Barge Operator, Self-unloading (asst To Engineer Required) (group 4)	$69.70	**7B**	**4G**	**8U**	**View**
Power Equipment Operators	Laser Screed(group 5)	$68.46	**7B**	**4G**	**8U**	**View**
Power Equipment Operators	Lattice Boom Crane 400 Ton And Over(group 1)	$80.41	**7B**	**4G**	**8U**	**View**

Power Equipment Operators	Lime Spreader, Construction Job Site(group 5)	$68.46	**7B**	**4G**	**8U**	**View**
Power Equipment Operators	Loaders Operator, Front End & Overhead, 25,000 Lbs And Less Than 60,000 Lbs(group 4)	$69.70	**7B**	**4G**	**8U**	**View**
Power Equipment Operators	Loaders, 120,000 Lbs And Above(group 2)	$74.18	**7B**	**4G**	**8U**	**View**
Power Equipment Operators	Loaders, 60,000 Lbs And Less Than 120,000 Lbs(group 3)	$73.03	**7B**	**4G**	**8U**	**View**
Power Equipment Operators	Loaders, Rubber-tire Type, Less Than 25,000 Lbs(group 5)	$68.46	**7B**	**4G**	**8U**	**View**
Power Equipment Operators	Log Skidders(group 4)	$69.70	**7B**	**4G**	**8U**	**View**
Power Equipment Operators	Master Environmental Maintenance Mechanic(group 2)	$74.18	**7B**	**4G**	**8U**	**View**
Power Equipment Operators	Material Handler(group 6)	$65.24	**7B**	**4G**	**8U**	**View**
Power Equipment Operators	Mechanic, Heavy Duty(group 4)	$69.70	**7B**	**4G**	**8U**	**View**
Power Equipment Operators	Mixer Box (c.t.b., Dry Batch, Etc.)(group 6)	$65.24	**7B**	**4G**	**8U**	**View**
Power Equipment Operators	Oiler(group 6)	$65.24	**7B**	**4G**	**8U**	**View**
Power Equipment Operators	Parts Man (tool Room) (group 6)	$65.24	**7B**	**4G**	**8U**	**View**

Power Equipment Operators	Pavement Grinder And Or Grooving Machine (riding Type)(group 5)	$68.46	**7B**	**4G**	**8U**	**View**
Power Equipment Operators	Pile Driver Operator (not Crane Type) (asst To Engineer Required) (group 4)	$69.70	**7B**	**4G**	**8U**	**View**
Power Equipment Operators	Pipe Bending, Cleaning, Doping And Wrapping Machines(group 4)	$69.70	**7B**	**4G**	**8U**	**View**
Power Equipment Operators	Pipe, Cast In Place Pipe Laying Machine(group 5)	$68.46	**7B**	**4G**	**8U**	**View**
Power Equipment Operators	Plant Oiler(group 6)	$65.24	**7B**	**4G**	**8U**	**View**
Power Equipment Operators	Pump (any Power) (group 6)	$65.24	**7B**	**4G**	**8U**	**View**
Power Equipment Operators	Pump Operator, More Than 5 Pumps (any Size)(group 5)	$68.46	**7B**	**4G**	**8U**	**View**
Power Equipment Operators	Rail, Ballast Compactor, Regulator Or Tamper Machines(group 5)	$68.46	**7B**	**4G**	**8U**	**View**
Power Equipment Operators	Rail, Ballast Tamper Multi-purpose(group 4)	$69.70	**7B**	**4G**	**8U**	**View**
Power Equipment Operators	Rail, Brakeman, Switchman, Motorman(group 6)	$65.24	**7B**	**4G**	**8U**	**View**

Power Equipment Operators	Rail, Car Mover(group 5)	$68.46	**7B**	**4G**	**8U**	**View**
Power Equipment Operators	Rail, Clip Applicator(group 5)	$68.46	**7B**	**4G**	**8U**	**View**
Power Equipment Operators	Rail, High Rail Self Loader Truck(group 5)	$68.46	**7B**	**4G**	**8U**	**View**
Power Equipment Operators	Rail, Lo-railer(group 5)	$68.46	**7B**	**4G**	**8U**	**View**
Power Equipment Operators	Rail, Locomotive, 40 Ton And Over (asst To Engineer Required) (group 5)	$68.46	**7B**	**4G**	**8U**	**View**
Power Equipment Operators	Rail, Shuttle Car Operator(group 5)	$68.46	**7B**	**4G**	**8U**	**View**
Power Equipment Operators	Rail, Speedswing(group 5)	$68.46	**7B**	**4G**	**8U**	**View**
Power Equipment Operators	Rail, Switchman(group 6)	$65.24	**7B**	**4G**	**8U**	**View**
Power Equipment Operators	Rail, Tamping Machine, Mechanical, Self-propelled(group 6)	$65.24	**7B**	**4G**	**8U**	**View**
Power Equipment Operators	Rail, Track Liner(group 5)	$68.46	**7B**	**4G**	**8U**	**View**
Power Equipment Operators	Remote Controlled Earth Moving Equipment(group 2)	$74.18	**7B**	**4G**	**8U**	**View**
Power Equipment Operators	Rigger(group 6)	$65.24	**7B**	**4G**	**8U**	**View**
Power Equipment Operators	Roller Grading (not Asphalt)(group 6)	$65.24	**7B**	**4G**	**8U**	**View**

Power Equipment Operators	Rubber-tired Dozers And Pushers(group 4)	$69.70	**7B**	**4G**	**8U**	**View**
Power Equipment Operators	Scraper All Types(group 4)	$69.70	**7B**	**4G**	**8U**	**View**
Power Equipment Operators	Service Oiler (greaser) (group 5)	$68.46	**7B**	**4G**	**8U**	**View**
Power Equipment Operators	Shovel, Dragline, Clamshell, 5 Yards And Over(group 2)	$74.18	**7B**	**4G**	**8U**	**View**
Power Equipment Operators	Side-boom(group 4)	$69.70	**7B**	**4G**	**8U**	**View**
Power Equipment Operators	Skip Loader, Drag Box(group 4)	$69.70	**7B**	**4G**	**8U**	**View**
Power Equipment Operators	Stump Grinder (loader Mounted Or Similar Type)(group 4)	$69.70	**7B**	**4G**	**8U**	**View**
Power Equipment Operators	Surface Heater And Planer(group 4)	$69.70	**7B**	**4G**	**8U**	**View**
Power Equipment Operators	Sweeper Self-propelled, Construction Job Site(group 5)	$68.46	**7B**	**4G**	**8U**	**View**
Power Equipment Operators	Tar Pot Fireman (power Agitated) Or Not(group 6)	$65.24	**7B**	**4G**	**8U**	**View**
Power Equipment Operators	Tractor Rubber-tired, 50 Hp Flywheel & Under(group 5)	$68.46	**7B**	**4G**	**8U**	**View**
Power Equipment Operators	Tractor, Rubber-tired Over 50 Hp	$69.70	**7B**	**4G**	**8U**	**View**

	Flywheel(group 4)					
Power Equipment Operators	Trenching Machine 3 Ft Depth And Deeper (asst To The Operator If Required)(group 4)	$69.70	**7B**	**4G**	**8U**	**View**
Power Equipment Operators	Trenching Machine Operator, Maximum Digging Capacity 3 Ft Depth(group 5)	$68.46	**7B**	**4G**	**8U**	**View**
Power Equipment Operators	Truck Crane Oiler-driver(group 6)	$65.24	**7B**	**4G**	**8U**	**View**
Power Equipment Operators	Truck, All Terrain Or Track Type(group 5)	$68.46	**7B**	**4G**	**8U**	**View**
Power Equipment Operators	Truck, Barrel Type(group 5)	$68.46	**7B**	**4G**	**8U**	**View**
Power Equipment Operators	Truck, Boom(group 5)	$68.46	**7B**	**4G**	**8U**	**View**
Power Equipment Operators	Truck, Off-road Trucks, Articulated And Non-articulated Trucks(group 5)	$68.46	**7B**	**4G**	**8U**	**View**
Power Equipment Operators	Truck, Offraod Trucks, Articulated And Non-articulated Trucks(group 5)	$68.46	**7B**	**4G**	**8U**	**View**
Power Equipment Operators	Truck, Vacuum(group 5)	$68.46	**7B**	**4G**	**8U**	**View**
Power Equipment Operators	Truck, Water(group 5)	$68.46	**7B**	**4G**	**8U**	**View**
Power Equipment Operators	Tub Grinder(group 4)	$69.70	**7B**	**4G**	**8U**	**View**

Power Equipment Operators	Tunnel Boring Machine Mechanic(group 4)	$69.70	**7B**	**4G**	**8U**	**View**
Power Equipment Operators	Tunnel Boring Machine(group 1)	$76.09	**7B**	**4G**	**8U**	**View**
Power Equipment Operators	Tunnel Segment Plant(group 4)	$69.70	**7B**	**4G**	**8U**	**View**
Power Equipment Operators	Tunnel Separation Plant(group 4)	$69.70	**7B**	**4G**	**8U**	**View**
Power Equipment Operators	Tunnel Shaef Loader(group 4)	$69.70	**7B**	**4G**	**8U**	**View**
Power Equipment Operators	Tunnel, Locomotive, Dinkey(group 5)	$68.46	**7B**	**4G**	**8U**	**View**
Power Equipment Operators	Tunnel, Micro Boring Tunnel Machine(group 1)	$76.09	**7B**	**4G**	**8U**	**View**
Power Equipment Operators	Tunnel, Mucking Machine(group 4)	$69.70	**7B**	**4G**	**8U**	**View**
Power Equipment Operators	Tunnel, Power Jumbo Setting Slip Forms, Etc. (group 5)	$68.46	**7B**	**4G**	**8U**	**View**
Power Equipment Operators	Tunnel, Shield Operator(group 4)	$69.70	**7B**	**4G**	**8U**	**View**
Power Equipment Operators	Ultra High Pressure Water Jet Cutting Tool System Operator(group 4)	$69.70	**7B**	**4G**	**8U**	**View**
Power Equipment Operators	Underwater Equipment, Remote Or Otherwise(group 2)	$74.18	**7B**	**4G**	**8U**	**View**

Power Equipment Operators	Vacuum Blasting Machine Operator(group 4)	$69.70	**7B**	**4G**	**8U**	**View**
Power Equipment Operators	Water Pulls, Water Wagon(group 4)	$69.70	**7B**	**4G**	**8U**	**View**
Power Equipment Operators	Welder's Assistant(group 6)	$65.24	**7B**	**4G**	**8U**	**View**
Power Equipment Operators	Welder; Heavy Duty, Certified Or Not(group 4)	$69.70	**7B**	**4G**	**8U**	**View**
Power Equipment Operators	Welding Machine(group 6)	$65.24	**7B**	**4G**	**8U**	**View**
Power Equipment Operators	Wheel Excavation Any Size (grade Oiler Required)(group 2)	$74.18	**7B**	**4G**	**8U**	**View**
Power Equipment Operators	Wire Mat Or Brooming Machine(group 6)	$65.24	**7B**	**4G**	**8U**	**View**
Power Equipment Operators- Underground Sewer & Water	Air Filtration Equipment(group 6)	$65.24	**7B**	**4G**	**8U**	**View**
Power Equipment Operators- Underground Sewer & Water	Asphalt Plant (any Type) (assistant Engineer Required) (group 2)	$74.18	**7B**	**4G**	**8U**	**View**
Power Equipment Operators- Underground Sewer & Water	Asphalt, Burner & Reconditioner (any Type), (asst To Engineer If Required) (group 5)	$68.46	**7B**	**4G**	**8U**	**View**

Power Equipment Operators- Underground Sewer & Water	Asphalt, Extrusion Machine Operator(group 5)	$68.46	**7B**	**4G**	**8U**	**View**
Power Equipment Operators- Underground Sewer & Water	Asphalt, Paver (screed Man Required)(group 4)	$69.70	**7B**	**4G**	**8U**	**View**
Power Equipment Operators- Underground Sewer & Water	Asphalt, Pugmill (any Type)(group 6)	$65.24	**7B**	**4G**	**8U**	**View**
Power Equipment Operators- Underground Sewer & Water	Asphalt, Raker(group 6)	$65.24	**7B**	**4G**	**8U**	**View**
Power Equipment Operators- Underground Sewer & Water	Asphalt, Roller (any Asphalt Mix)(group 5)	$68.46	**7B**	**4G**	**8U**	**View**
Power Equipment Operators- Underground Sewer & Water	Asphalt, Roto-mill, Pavement Profiler Under 8 Ft Lateral Cut(group 4)	$69.70	**7B**	**4G**	**8U**	**View**
Power Equipment Operators- Underground Sewer & Water	Asphalt, Roto-mill, Pavement Profiler, 8 Ft Lateral Cut & Over(group 2)	$74.18	**7B**	**4G**	**8U**	**View**
Power Equipment Operators- Underground Sewer & Water	Asphalt, Roto-mill, Pavement Profiler, Groundman(group 5)	$68.46	**7B**	**4G**	**8U**	**View**
Power Equipment Operators- Underground Sewer & Water	Asphalt, Screed(group 4)	$69.70	**7B**	**4G**	**8U**	**View**
Power Equipment Operators- Underground	Asphalt, Truck Mounted Spreader,	$65.24	**7B**	**4G**	**8U**	**View**

Sewer & Water	With Screed(group 6)					
Power Equipment Operators- Underground Sewer & Water	Auger Oiler(group 6)	$65.24	**7B**	**4G**	**8U**	**View**
Power Equipment Operators- Underground Sewer & Water	Auto Grader Or "trimmer" (grade Checker Required) (group 2)	$74.18	**7B**	**4G**	**8U**	**View**
Power Equipment Operators- Underground Sewer & Water	Back Filling Machine (assistant To Engineer Required)(group 4)	$69.70	**7B**	**4G**	**8U**	**View**
Power Equipment Operators- Underground Sewer & Water	Backhoe, Robotic, Track And Wheel Type Up To And Including 20,000 Lbs. With Any Attachments(group 4)	$69.70	**7B**	**4G**	**8U**	**View**
Power Equipment Operators- Underground Sewer & Water	Band Wagons (in Conjuction With Whell Excavator)(group 2)	$74.18	**7B**	**4G**	**8U**	**View**
Power Equipment Operators- Underground Sewer & Water	Bell Man (any Type Of Comunication)(group 6)	$65.24	**7B**	**4G**	**8U**	**View**
Power Equipment Operators- Underground Sewer & Water	Blade Any Type(group 4)	$69.70	**7B**	**4G**	**8U**	**View**
Power Equipment Operators- Underground Sewer & Water	Blade, Robotic(group 2)	$74.18	**7B**	**4G**	**8U**	**View**
Power Equipment Operators- Underground Sewer & Water	Boatman(group 6)	$65.24	**7B**	**4G**	**8U**	**View**

Power Equipment Operators- Underground Sewer & Water	Boatman, Licensed(group 4)	$69.70	**7B**	**4G**	**8U**	**View**
Power Equipment Operators- Underground Sewer & Water	Bobcat, Skid Steer (< 1yd)(group 6)	$65.24	**7B**	**4G**	**8U**	**View**
Power Equipment Operators- Underground Sewer & Water	Boom Type Lifting Device, 5 Ton Capacity Or Less(group 5)	$68.46	**7B**	**4G**	**8U**	**View**
Power Equipment Operators- Underground Sewer & Water	Boring Machine (asst To Engineer Required) (group 4)	$69.70	**7B**	**4G**	**8U**	**View**
Power Equipment Operators- Underground Sewer & Water	Broom Self-propelled, Construction Job Site(group 6)	$65.24	**7B**	**4G**	**8U**	**View**
Power Equipment Operators- Underground Sewer & Water	Bulldozer Operator, 20,000 Lbs Or Less, Or 100 Horse Or Less(group 5)	$68.46	**7B**	**4G**	**8U**	**View**
Power Equipment Operators- Underground Sewer & Water	Bulldozer Operator, Over 20,000 Lbs And More Than 100 Horse Up To 70,000 Lbs(group 4)	$69.70	**7B**	**4G**	**8U**	**View**
Power Equipment Operators- Underground Sewer & Water	Bulldozer Over 70,000 Lbs Up To And Including 120,000 Lbs(group 3)	$73.03	**7B**	**4G**	**8U**	**View**
Power Equipment Operators- Underground Sewer & Water	Bulldozer Over 120,000 Lbs And Above(group 2)	$74.18	**7B**	**4G**	**8U**	**View**

Power Equipment Operators- Underground Sewer & Water	Bulldozer Robotic Equipment(group 2)	$74.18	**7B**	**4G**	**8U**	**View**
Power Equipment Operators- Underground Sewer & Water	Cable-plow (any Type) (group 4)	$69.70	**7B**	**4G**	**8U**	**View**
Power Equipment Operators- Underground Sewer & Water	Cableway 25 Ton & Over(group 2)	$74.18	**7B**	**4G**	**8U**	**View**
Power Equipment Operators- Underground Sewer & Water	Cableway Up To 25 Ton(group 4)	$69.70	**7B**	**4G**	**8U**	**View**
Power Equipment Operators- Underground Sewer & Water	Canal Trimmer (grade Oiler Required)(group 2)	$74.18	**7B**	**4G**	**8U**	**View**
Power Equipment Operators- Underground Sewer & Water	Cat Drill (john Henry) (group 4)	$69.70	**7B**	**4G**	**8U**	**View**
Power Equipment Operators- Underground Sewer & Water	Cement Pump(group 5)	$68.46	**7B**	**4G**	**8U**	**View**
Power Equipment Operators- Underground Sewer & Water	Challenger(group 4)	$69.70	**7B**	**4G**	**8U**	**View**
Power Equipment Operators- Underground Sewer & Water	Chip Spreading Machine(group 5)	$68.46	**7B**	**4G**	**8U**	**View**
Power Equipment Operators- Underground Sewer & Water	Chippers (asst To Engineer If Required) (group 4)	$69.70	**7B**	**4G**	**8U**	**View**

Power Equipment Operators- Underground Sewer & Water	Churn Drill & Earth Boring Machine(group 5)	$68.46	**7B**	**4G**	**8U**	**View**
Power Equipment Operators- Underground Sewer & Water	Combination Heavy Duty Mechanic-welder, When Required To Do Both(group 4)	$69.70	**7B**	**4G**	**8U**	**View**
Power Equipment Operators- Underground Sewer & Water	Compactor Self Propelled Without Blade(group 5)	$68.46	**7B**	**4G**	**8U**	**View**
Power Equipment Operators- Underground Sewer & Water	Compactor With Blade Self Propelled(group 4)	$69.70	**7B**	**4G**	**8U**	**View**
Power Equipment Operators- Underground Sewer & Water	Compactor, Multi-engine(group 4)	$69.70	**7B**	**4G**	**8U**	**View**
Power Equipment Operators- Underground Sewer & Water	Compactor, Robotic(group 4)	$69.70	**7B**	**4G**	**8U**	**View**
Power Equipment Operators- Underground Sewer & Water	Compressor (any Power) 1,250 Cu Ft And Over Total Capacity(group 5)	$68.46	**7B**	**4G**	**8U**	**View**
Power Equipment Operators- Underground Sewer & Water	Compressor Operator (any Power) Under 1,250 Cu Ft Total Capacity(group 6)	$65.24	**7B**	**4G**	**8U**	**View**
Power Equipment Operators- Underground Sewer & Water	Concrete Batch Plant And/or Wet Mix (3 Units Or More) (group1)	$76.09	**7B**	**4G**	**8U**	**View**

Power Equipment Operators- Underground Sewer & Water	Concrete Batch Plant And/or Wet Mix Operator (1 & 2 Drums) (group 2)	$74.18	**7B**	**4G**	**8U**	**View**
Power Equipment Operators- Underground Sewer & Water	Concrete Batch Plant Quality Control(group 5)	$68.46	**7B**	**4G**	**8U**	**View**
Power Equipment Operators- Underground Sewer & Water	Concrete Breaker (assistant To Engineer Required)(group 4)	$69.70	**7B**	**4G**	**8U**	**View**
Power Equipment Operators- Underground Sewer & Water	Concrete Canal Line, Assistant To Engineer Required(group 2)	$74.18	**7B**	**4G**	**8U**	**View**
Power Equipment Operators- Underground Sewer & Water	Concrete Curing Machine (riding Type) (group 6)	$65.24	**7B**	**4G**	**8U**	**View**
Power Equipment Operators- Underground Sewer & Water	Concrete Diamond Head Profiler(group 2)	$74.18	**7B**	**4G**	**8U**	**View**
Power Equipment Operators- Underground Sewer & Water	Concrete Paving Road Mixer(group 4)	$69.70	**7B**	**4G**	**8U**	**View**
Power Equipment Operators- Underground Sewer & Water	Concrete Planer(group 5)	$68.46	**7B**	**4G**	**8U**	**View**
Power Equipment Operators- Underground Sewer & Water	Concrete Saw(group 6)	$65.24	**7B**	**4G**	**8U**	**View**
Power Equipment Operators- Underground Sewer & Water	Concrete, Automatic Slip Form Paver (asst	$74.18	**7B**	**4G**	**8U**	**View**

	To Engineer Required) (group 2)					
Power Equipment Operators- Underground Sewer & Water	Concrete, Combination Mixer & Compressor Operator, Gunite Work(group 5)	$68.46	**7B**	**4G**	**8U**	**View**
Power Equipment Operators- Underground Sewer & Water	Concrete, Curb Machine Mechanical Berm, Curb And/or Curb And Gutter(group 5)	$68.46	**7B**	**4G**	**8U**	**View**
Power Equipment Operators- Underground Sewer & Water	Concrete, Finishing Machine(group 5)	$68.46	**7B**	**4G**	**8U**	**View**
Power Equipment Operators- Underground Sewer & Water	Concrete, Grout Plant(group 4)	$69.70	**7B**	**4G**	**8U**	**View**
Power Equipment Operators- Underground Sewer & Water	Concrete, Grouting Machine(group 5)	$68.46	**7B**	**4G**	**8U**	**View**
Power Equipment Operators- Underground Sewer & Water	Concrete, Joint Machine(group 5)	$68.46	**7B**	**4G**	**8U**	**View**
Power Equipment Operators- Underground Sewer & Water	Concrete, Mixer Mobile(group 4)	$69.70	**7B**	**4G**	**8U**	**View**
Power Equipment Operators- Underground Sewer & Water	Concrete, Mixer Single Drum Any Capacity(group 5)	$68.46	**7B**	**4G**	**8U**	**View**
Power Equipment Operators- Underground	Concrete, Paving Machine 8' And Less	$68.46	**7B**	**4G**	**8U**	**View**

Sewer & Water	(asst To Engineer Required)(group 5)					
Power Equipment Operators- Underground Sewer & Water	Concrete, Placing Boom(group 5)	$68.46	**7B**	**4G**	**8U**	**View**
Power Equipment Operators- Underground Sewer & Water	Concrete, Pump Truck(group 5)	$68.46	**7B**	**4G**	**8U**	**View**
Power Equipment Operators- Underground Sewer & Water	Concrete, Pump(group 5)	$68.46	**7B**	**4G**	**8U**	**View**
Power Equipment Operators- Underground Sewer & Water	Concrete, Pumpcrete Operator (any Type) (group 5)	$68.46	**7B**	**4G**	**8U**	**View**
Power Equipment Operators- Underground Sewer & Water	Concrete, Reinforced Tank Banding Machine (asst To Engineer Required)(group 4)	$69.70	**7B**	**4G**	**8U**	**View**
Power Equipment Operators- Underground Sewer & Water	Concrete, Slip Form Pumps, Power Driven Hydraulic Lifting Device For Concrete Forms(group 5)	$68.46	**7B**	**4G**	**8U**	**View**
Power Equipment Operators- Underground Sewer & Water	Concrete, Spreader(group 5)	$68.46	**7B**	**4G**	**8U**	**View**
Power Equipment Operators- Underground Sewer & Water	Concrete, Telebelt(group 5)	$68.46	**7B**	**4G**	**8U**	**View**
Power Equipment Operators- Underground	Concrete, Treated Base Roller Operator,	$68.46	**7B**	**4G**	**8U**	**View**

Sewer & Water	Oiling(group 5)					
Power Equipment Operators- Underground Sewer & Water	Conveyor Operator Or Assistant(group 6)	$65.24	**7B**	**4G**	**8U**	**View**
Power Equipment Operators- Underground Sewer & Water	Conveyored Material Hauler(group 5)	$68.46	**7B**	**4G**	**8U**	**View**
Power Equipment Operators- Underground Sewer & Water	Crane, Bridge Locomotive, Gantry And Overhead(group 4)	$69.70	**7B**	**4G**	**8U**	**View**
Power Equipment Operators- Underground Sewer & Water	Crane, Carry Deck(group 4)	$69.70	**7B**	**4G**	**8U**	**View**
Power Equipment Operators- Underground Sewer & Water	Crane, Chicago Boom & Similar Types(group 4)	$69.70	**7B**	**4G**	**8U**	**View**
Power Equipment Operators- Underground Sewer & Water	Crane, Floating (derrick Barge) 30 Ton But Less Than 150 Ton (asst To Engineer Required)(group 2)	$74.18	**7B**	**4G**	**8U**	**View**
Power Equipment Operators- Underground Sewer & Water	Crane, Floating 150 Ton But Less Than 250 Ton (asst To Engineer Required) (group 1)	$76.09	**7B**	**4G**	**8U**	**View**
Power Equipment Operators- Underground Sewer & Water	Crane, Floating 250 Ton And Over (asst To Engineer And Deckhand Required) (group 1)	$78.25	**7B**	**4G**	**8U**	**View**

Power Equipment Operators- Underground Sewer & Water	Crane, Floating Clamshell 3 Cu. Yds. & Over (fireman Or Diesel Electric Engineer Required(group 2)	$74.18	**7B**	**4G**	**8U**	**View**
Power Equipment Operators- Underground Sewer & Water	Crane, Floating Clamshell, Dragline Etc. Operator Under 3 Cu. Yds. Or Less Than 30 Ton (diesel-electric Engineer Required) (group 4)	$69.70	**7B**	**4G**	**8U**	**View**
Power Equipment Operators- Underground Sewer & Water	Crane, Hydraulic 200 Ton Through 399 Ton (group 1)	$76.09	**7B**	**4G**	**8U**	**View**
Power Equipment Operators- Underground Sewer & Water	Crane, Hydraulic 50 Ton Through 89 Ton With Luffing Or Tower Attachment(group 2)	$74.18	**7B**	**4G**	**8U**	**View**
Power Equipment Operators- Underground Sewer & Water	Crane, Hydraulic 50 Ton Through 89 Tons(group 3)	$73.03	**7B**	**4G**	**8U**	**View**
Power Equipment Operators- Underground Sewer & Water	Crane, Hydraulic 90 Ton Through 199 Ton With Luffing Or Tower Attachment (group 1)	$76.09	**7B**	**4G**	**8U**	**View**
Power Equipment Operators- Underground Sewer & Water	Crane, Hydraulic 90 Ton Through 199 Ton(group 2)	$74.18	**7B**	**4G**	**8U**	**View**
Power Equipment Operators- Underground Sewer & Water	Crane, Hydraulic Crane 200 Ton Through 300 Ton With Luffing Or	$78.25	**7B**	**4G**	**8U**	**View**

	Tower Attachment(group 1)					
Power Equipment Operators- Underground Sewer & Water	Crane, Hydraulic Crane 400 Ton And Over(group 1)	$80.41	**7B**	**4G**	**8U**	**View**
Power Equipment Operators- Underground Sewer & Water	Crane, Hydraulic Crane Over 300 Ton Through 399 Ton With Luffer Or Tower Attachment(group 1)	$80.41	**7B**	**4G**	**8U**	**View**
Power Equipment Operators- Underground Sewer & Water	Crane, Hydraulic Under 50 Ton(group 4)	$69.70	**7B**	**4G**	**8U**	**View**
Power Equipment Operators- Underground Sewer & Water	Crane, Lattice Boom 200 Ton Through 299 Ton, With Over 200' Boom(group 1)	$78.25	**7B**	**4G**	**8U**	**View**
Power Equipment Operators- Underground Sewer & Water	Crane, Lattice Boom 300 Ton Through 399 Ton(group 1)	$78.25	**7B**	**4G**	**8U**	**View**
Power Equipment Operators- Underground Sewer & Water	Crane, Lattice Boom 300 Ton Through 399 Ton, With Over 200' Boom(group 1)	$80.41	**7B**	**4G**	**8U**	**View**
Power Equipment Operators- Underground Sewer & Water	Crane, Lattice Boom 50 Ton Through 89 Ton With 150' Boom Or Less(group 3)	$73.03	**7B**	**4G**	**8U**	**View**

Power Equipment Operators- Underground Sewer & Water	Crane, Lattice Boom 50 Ton Through 89 Ton With Over 150' Boom	$74.18	**7B**	**4G**	**8U**	**View**
Power Equipment Operators- Underground Sewer & Water	Crane, Lattice Boom 90 Ton Through 199 Ton With 150' - 200' Boom(group 2)	$74.18	**7B**	**4G**	**8U**	**View**
Power Equipment Operators- Underground Sewer & Water	Crane, Lattice Boom Under 50 Ton(group 4)	$69.70	**7B**	**4G**	**8U**	**View**
Power Equipment Operators- Underground Sewer & Water	Crane, Lattice Boom, 200 Ton Through 299 Ton With 200' Boom Or Less (group 1)	$76.09	**7B**	**4G**	**8U**	**View**
Power Equipment Operators- Underground Sewer & Water	Crane, Lattice Boom, 90 Ton Through 199 Ton With Over 200' Boom (group 1)	$76.09	**7B**	**4G**	**8U**	**View**
Power Equipment Operators- Underground Sewer & Water	Crane, Shovel, Dragline Or Clamshell 3 Cu. Yds. But Less Than 5 Cu. Yds. (asst To Engineer Required)(group 3)	$73.03	**7B**	**4G**	**8U**	**View**
Power Equipment Operators- Underground Sewer & Water	Crane, Tower Crane With 175' Tower Or Less And With Less Than 200' Jib(group 2)	$74.18	**7B**	**4G**	**8U**	**View**
Power Equipment Operators- Underground Sewer & Water	Crane, Tower Crane With Over 175' Tower Or Over 200' Jib (group 1)	$76.09	**7B**	**4G**	**8U**	**View**

Power Equipment Operators- Underground Sewer & Water	Crane, Tugger(group 6)	$65.24	**7B**	**4G**	**8U**	**View**
Power Equipment Operators- Underground Sewer & Water	Crane, Whirley 90 Ton And Over (group 1)	$76.09	**7B**	**4G**	**8U**	**View**
Power Equipment Operators- Underground Sewer & Water	Crane, Whirley Under 90 Ton(group 2)	$74.18	**7B**	**4G**	**8U**	**View**
Power Equipment Operators- Underground Sewer & Water	Crusher Feederman(group 6)	$65.24	**7B**	**4G**	**8U**	**View**
Power Equipment Operators- Underground Sewer & Water	Crusher Oiler(group 6)	$65.24	**7B**	**4G**	**8U**	**View**
Power Equipment Operators- Underground Sewer & Water	Crusher Plant(group 2)	$74.18	**7B**	**4G**	**8U**	**View**
Power Equipment Operators- Underground Sewer & Water	Deckhand(group 6)	$65.24	**7B**	**4G**	**8U**	**View**
Power Equipment Operators- Underground Sewer & Water	Derrick Operator Under 100 Ton (two Operators Required When Swing Control Is Remote From Hoist) (group 4)	$69.70	**7B**	**4G**	**8U**	**View**
Power Equipment Operators- Underground Sewer & Water	Diesel-electric Engineer (plant Or Floating)(group 4)	$69.70	**7B**	**4G**	**8U**	**View**

Power Equipment Operators- Underground Sewer & Water	Directional Drill Over 20,000 Lbs Pullback(group 4)	$69.70	**7B**	**4G**	**8U**	**View**
Power Equipment Operators- Underground Sewer & Water	Drill Assistant(group 6)	$65.24	**7B**	**4G**	**8U**	**View**
Power Equipment Operators- Underground Sewer & Water	Drill Cat Operator(group 4)	$69.70	**7B**	**4G**	**8U**	**View**
Power Equipment Operators- Underground Sewer & Water	Drill Directional Type Less Than 20,ooo Lbs Pullback(group 5)	$68.46	**7B**	**4G**	**8U**	**View**
Power Equipment Operators- Underground Sewer & Water	Drill Doctor And/or (bit Grinder)(group 4)	$69.70	**7B**	**4G**	**8U**	**View**
Power Equipment Operators- Underground Sewer & Water	Drill Mud Mixer(group 5)	$68.46	**7B**	**4G**	**8U**	**View**
Power Equipment Operators- Underground Sewer & Water	Drill Oscillator(group 4)	$69.70	**7B**	**4G**	**8U**	**View**
Power Equipment Operators- Underground Sewer & Water	Drill, Directinal Locator(group 6)	$65.24	**7B**	**4G**	**8U**	**View**
Power Equipment Operators- Underground Sewer & Water	Driller, Percussion, Diamond, Core, Cable, Rotary & Similar Type(group 4)	$69.70	**7B**	**4G**	**8U**	**View**
Power Equipment Operators- Underground Sewer & Water	Elevating Grader Operator, Tractor Towed Requiring	$68.46	**7B**	**4G**	**8U**	**View**

	Operator Or Grader(group 5)					
Power Equipment Operators- Underground Sewer & Water	Elevating Loader Operator (any Type) (group 5)	$68.46	**7B**	**4G**	**8U**	**View**
Power Equipment Operators- Underground Sewer & Water	Elevator To Move Personnel Or Materials(group 5)	$68.46	**7B**	**4G**	**8U**	**View**
Power Equipment Operators- Underground Sewer & Water	Excavator Over 80,000 Lbs Through 130,000 Lbs(group 3)	$73.03	**7B**	**4G**	**8U**	**View**
Power Equipment Operators- Underground Sewer & Water	Excavator Operator, Over 20,000 Lbs Through 80,000 Lbs(group 4)	$69.70	**7B**	**4G**	**8U**	**View**
Power Equipment Operators- Underground Sewer & Water	Excavator Operator, Over 130,000 Lbs(group 2)	$74.18	**7B**	**4G**	**8U**	**View**
Power Equipment Operators- Underground Sewer & Water	Fireman(group 6)	$65.24	**7B**	**4G**	**8U**	**View**
Power Equipment Operators- Underground Sewer & Water	Floating, Crane 350 Ton And Over (asst To Engineer And Deckhand Required) (group 1)	$80.41	**7B**	**4G**	**8U**	**View**
Power Equipment Operators- Underground Sewer & Water	Fork Lift(group 6)	$65.24	**7B**	**4G**	**8U**	**View**
Power Equipment Operators- Underground	Fork Lift, Over 10 Ton Or Robotic(group 5)	$68.46	**7B**	**4G**	**8U**	**View**

Sewer & Water						
Power Equipment Operators- Underground Sewer & Water	Generator Operator(group 4)	$69.70	**7B**	**4G**	**8U**	**View**
Power Equipment Operators- Underground Sewer & Water	Grade Checker(group 6)	$65.24	**7B**	**4G**	**8U**	**View**
Power Equipment Operators- Underground Sewer & Water	Grade Setter / Layout From Plans(group 4)	$69.70	**7B**	**4G**	**8U**	**View**
Power Equipment Operators- Underground Sewer & Water	Grade-all(group 4)	$69.70	**7B**	**4G**	**8U**	**View**
Power Equipment Operators- Underground Sewer & Water	Guardrail Machines, I.e. Punch, Auger, Etc. (group 4)	$69.70	**7B**	**4G**	**8U**	**View**
Power Equipment Operators- Underground Sewer & Water	Guardrail Punch Oiler(group 6)	$65.24	**7B**	**4G**	**8U**	**View**
Power Equipment Operators- Underground Sewer & Water	Hammer Operator (pile Driver)(group 4)	$69.70	**7B**	**4G**	**8U**	**View**
Power Equipment Operators- Underground Sewer & Water	Heavy Duty Repairman Assistant(group 6)	$65.24	**7B**	**4G**	**8U**	**View**
Power Equipment Operators- Underground Sewer & Water	Heavy Equipment Robotics Operator Or Mechanic(group 2)	$74.18	**7B**	**4G**	**8U**	**View**

Power Equipment Operators- Underground Sewer & Water	Helicopter Hoist(group 5)	$68.46	**7B**	**4G**	**8U**	**View**
Power Equipment Operators- Underground Sewer & Water	Helicopter Radioman (ground)(group 6)	$65.24	**7B**	**4G**	**8U**	**View**
Power Equipment Operators- Underground Sewer & Water	Helicopter When Used In Erecting Workcrane(group 1)	$76.09	**7B**	**4G**	**8U**	**View**
Power Equipment Operators- Underground Sewer & Water	Hoist Operator, Single Drum(group 5)	$68.46	**7B**	**4G**	**8U**	**View**
Power Equipment Operators- Underground Sewer & Water	Hoist, 2 Drums Or More(group 4)	$69.70	**7B**	**4G**	**8U**	**View**
Power Equipment Operators- Underground Sewer & Water	Hoist, Stiff Leg, Guy Derrick Or Similar Type, 50 Ton And Over(group 4)	$69.70	**7B**	**4G**	**8U**	**View**
Power Equipment Operators- Underground Sewer & Water	Hydraulic Backhoe Track Type Up To And Including 20,000 Lbs(group 5)	$68.46	**7B**	**4G**	**8U**	**View**
Power Equipment Operators- Underground Sewer & Water	Hydraulic Backhoe Wheel Type (any Make) (group 5)	$68.46	**7B**	**4G**	**8U**	**View**
Power Equipment Operators- Underground Sewer & Water	Hydraulic Pipe Press(group 6)	$65.24	**7B**	**4G**	**8U**	**View**
Power Equipment Operators- Underground	Hydro Axe (loader Mounted Or Similar	$69.70	**7B**	**4G**	**8U**	**View**

Sewer & Water	Type)(group 4)					
Power Equipment Operators- Underground Sewer & Water	Hydrographic Seeder Machine Straw, Pulp Or Seed(group 6)	$65.24	**7B**	**4G**	**8U**	**View**
Power Equipment Operators- Underground Sewer & Water	Hydrostatic Pump Operator(group 6)	$65.24	**7B**	**4G**	**8U**	**View**
Power Equipment Operators- Underground Sewer & Water	Internal Full Slab Vibrator Operator(group 5)	$68.46	**7B**	**4G**	**8U**	**View**
Power Equipment Operators- Underground Sewer & Water	Jack Operator, Elevating Barges, Barge Operator, Self-unloading (asst To Engineer Required) (group 4)	$69.70	**7B**	**4G**	**8U**	**View**
Power Equipment Operators- Underground Sewer & Water	Laser Screed(group 5)	$68.46	**7B**	**4G**	**8U**	**View**
Power Equipment Operators- Underground Sewer & Water	Lattice Boom Crane 400 Ton And Over(group 1)	$80.41	**7B**	**4G**	**8U**	**View**
Power Equipment Operators- Underground Sewer & Water	Lime Spreader, Construction Job Site(group 5)	$68.46	**7B**	**4G**	**8U**	**View**
Power Equipment Operators- Underground Sewer & Water	Loaders Operator, Front End & Overhead, 25,000 Lbs And Less Than 60,000 Lbs(group 4)	$69.70	**7B**	**4G**	**8U**	**View**

Power Equipment Operators- Underground Sewer & Water	Loaders, 120,000 Lbs And Above(group 2)	$74.18	**7B**	**4G**	**8U**	**View**
Power Equipment Operators- Underground Sewer & Water	Loaders, 60,000 Lbs And Less Than 120,000 Lbs(group 3)	$73.03	**7B**	**4G**	**8U**	**View**
Power Equipment Operators- Underground Sewer & Water	Loaders, Rubber-tire Type, Less Than 25,000 Lbs(group 5)	$68.46	**7B**	**4G**	**8U**	**View**
Power Equipment Operators- Underground Sewer & Water	Log Skidders(group 4)	$69.70	**7B**	**4G**	**8U**	**View**
Power Equipment Operators- Underground Sewer & Water	Master Environmental Maintenance Mechanic(group 2)	$74.18	**7B**	**4G**	**8U**	**View**
Power Equipment Operators- Underground Sewer & Water	Material Handler(group 6)	$65.24	**7B**	**4G**	**8U**	**View**
Power Equipment Operators- Underground Sewer & Water	Mechanic, Heavy Duty(group 4)	$69.70	**7B**	**4G**	**8U**	**View**
Power Equipment Operators- Underground Sewer & Water	Mixer Box (c.t.b., Dry Batch, Etc.)(group 6)	$65.24	**7B**	**4G**	**8U**	**View**
Power Equipment Operators- Underground Sewer & Water	Oiler(group 6)	$65.24	**7B**	**4G**	**8U**	**View**
Power Equipment Operators- Underground Sewer & Water	Parts Man (tool Room) (group 6)	$65.24	**7B**	**4G**	**8U**	**View**

Power Equipment Operators- Underground Sewer & Water	Pavement Grinder And Or Grooving Machine (riding Type)(group 5)	$68.46	**7B**	**4G**	**8U**	**View**
Power Equipment Operators- Underground Sewer & Water	Pile Driver Operator (not Crane Type) (asst To Engineer Required) (group 4)	$69.70	**7B**	**4G**	**8U**	**View**
Power Equipment Operators- Underground Sewer & Water	Pipe Bending, Cleaning, Doping And Wrapping Machines(group 4)	$69.70	**7B**	**4G**	**8U**	**View**
Power Equipment Operators- Underground Sewer & Water	Pipe, Cast In Place Pipe Laying Machine(group 5)	$68.46	**7B**	**4G**	**8U**	**View**
Power Equipment Operators- Underground Sewer & Water	Plant Oiler(group 6)	$65.24	**7B**	**4G**	**8U**	**View**
Power Equipment Operators- Underground Sewer & Water	Pump (any Power) (group 6)	$65.24	**7B**	**4G**	**8U**	**View**
Power Equipment Operators- Underground Sewer & Water	Pump Operator, More Than 5 Pumps (any Size)(group 5)	$68.46	**7B**	**4G**	**8U**	**View**
Power Equipment Operators- Underground Sewer & Water	Rail, Ballast Compactor, Regulator Or Tamper Machines(group 5)	$68.46	**7B**	**4G**	**8U**	**View**
Power Equipment Operators- Underground Sewer & Water	Rail, Ballast Tamper Multi-purpose(group 4)	$69.70	**7B**	**4G**	**8U**	**View**

Power Equipment Operators- Underground Sewer & Water	Rail, Brakeman, Switchman, Motorman(group 6)	$65.24	**7B**	**4G**	**8U**	**View**
Power Equipment Operators- Underground Sewer & Water	Rail, Car Mover(group 5)	$68.46	**7B**	**4G**	**8U**	**View**
Power Equipment Operators- Underground Sewer & Water	Rail, Clip Applicator(group 5)	$68.46	**7B**	**4G**	**8U**	**View**
Power Equipment Operators- Underground Sewer & Water	Rail, High Rail Self Loader Truck(group 5)	$68.46	**7B**	**4G**	**8U**	**View**
Power Equipment Operators- Underground Sewer & Water	Rail, Lo-railer(group 5)	$68.46	**7B**	**4G**	**8U**	**View**
Power Equipment Operators- Underground Sewer & Water	Rail, Locomotive, 40 Ton And Over (asst To Engineer Required) (group 5)	$68.46	**7B**	**4G**	**8U**	**View**
Power Equipment Operators- Underground Sewer & Water	Rail, Shuttle Car Operator(group 5)	$68.46	**7B**	**4G**	**8U**	**View**
Power Equipment Operators- Underground Sewer & Water	Rail, Speedswing(group 5)	$68.46	**7B**	**4G**	**8U**	**View**
Power Equipment Operators- Underground Sewer & Water	Rail, Switchman(group 6)	$65.24	**7B**	**4G**	**8U**	**View**
Power Equipment Operators- Underground Sewer & Water	Rail, Tamping Machine, Mechanical, Self-propelled(group 6)	$65.24	**7B**	**4G**	**8U**	**View**

Power Equipment Operators- Underground Sewer & Water	Rail, Track Liner(group 5)	$68.46	**7B**	**4G**	**8U**	**View**
Power Equipment Operators- Underground Sewer & Water	Remote Controlled Earth Moving Equipment(group 2)	$74.18	**7B**	**4G**	**8U**	**View**
Power Equipment Operators- Underground Sewer & Water	Rigger(group 6)	$65.24	**7B**	**4G**	**8U**	**View**
Power Equipment Operators- Underground Sewer & Water	Roller Grading (not Asphalt)(group 6)	$65.24	**7B**	**4G**	**8U**	**View**
Power Equipment Operators- Underground Sewer & Water	Rubber-tired Dozers And Pushers(group 4)	$69.70	**7B**	**4G**	**8U**	**View**
Power Equipment Operators- Underground Sewer & Water	Scraper All Types(group 4)	$69.70	**7B**	**4G**	**8U**	**View**
Power Equipment Operators- Underground Sewer & Water	Service Oiler (greaser) (group 5)	$68.46	**7B**	**4G**	**8U**	**View**
Power Equipment Operators- Underground Sewer & Water	Shovel, Dragline, Clamshell, 5 Yards And Over(group 2)	$74.18	**7B**	**4G**	**8U**	**View**
Power Equipment Operators- Underground Sewer & Water	Side-boom(group 4)	$69.70	**7B**	**4G**	**8U**	**View**
Power Equipment Operators- Underground Sewer & Water	Skip Loader, Drag Box(group 4)	$69.70	**7B**	**4G**	**8U**	**View**

Power Equipment Operators- Underground Sewer & Water	Stump Grinder (loader Mounted Or Similar Type)(group 4)	$69.70	**7B**	**4G**	**8U**	**View**
Power Equipment Operators- Underground Sewer & Water	Surface Heater And Planer(group 4)	$69.70	**7B**	**4G**	**8U**	**View**
Power Equipment Operators- Underground Sewer & Water	Sweeper Self-propelled, Construction Job Site(group 5)	$68.46	**7B**	**4G**	**8U**	**View**
Power Equipment Operators- Underground Sewer & Water	Tar Pot Fireman (power Agitated) Or Not(group 6)	$65.24	**7B**	**4G**	**8U**	**View**
Power Equipment Operators- Underground Sewer & Water	Tractor Rubber-tired, 50 Hp Flywheel & Under(group 5)	$68.46	**7B**	**4G**	**8U**	**View**
Power Equipment Operators- Underground Sewer & Water	Tractor, Rubber-tired Over 50 Hp Flywheel(group 4)	$69.70	**7B**	**4G**	**8U**	**View**
Power Equipment Operators- Underground Sewer & Water	Trenching Machine 3 Ft Depth And Deeper (asst To The Operator If Required)(group 4)	$69.70	**7B**	**4G**	**8U**	**View**
Power Equipment Operators- Underground Sewer & Water	Trenching Machine Operator, Maximum Digging Capacity 3 Ft Depth(group 5)	$68.46	**7B**	**4G**	**8U**	**View**
Power Equipment Operators- Underground Sewer & Water	Truck Crane Oiler-driver(group 6)	$65.24	**7B**	**4G**	**8U**	**View**

Power Equipment Operators- Underground Sewer & Water	Truck, All Terrain Or Track Type(group 5)	$68.46	**7B**	**4G**	**8U**	**View**
Power Equipment Operators- Underground Sewer & Water	Truck, Barrel Type(group 5)	$68.46	**7B**	**4G**	**8U**	**View**
Power Equipment Operators- Underground Sewer & Water	Truck, Boom(group 5)	$68.46	**7B**	**4G**	**8U**	**View**
Power Equipment Operators- Underground Sewer & Water	Truck, Off-road Trucks, Articulated And Non-articulated Trucks(group 5)	$68.46	**7B**	**4G**	**8U**	**View**
Power Equipment Operators- Underground Sewer & Water	Truck, Offraod Trucks, Articulated And Non-articulated Trucks(group 5)	$68.46	**7B**	**4G**	**8U**	**View**
Power Equipment Operators- Underground Sewer & Water	Truck, Vacuum(group 5)	$68.46	**7B**	**4G**	**8U**	**View**
Power Equipment Operators- Underground Sewer & Water	Truck, Water(group 5)	$68.46	**7B**	**4G**	**8U**	**View**
Power Equipment Operators- Underground Sewer & Water	Tub Grinder(group 4)	$69.70	**7B**	**4G**	**8U**	**View**
Power Equipment Operators- Underground Sewer & Water	Tunnel Boring Machine Mechanic(group 4)	$69.70	**7B**	**4G**	**8U**	**View**
Power Equipment Operators- Underground	Tunnel Boring Machine(group 1)	$76.09	**7B**	**4G**	**8U**	**View**

Sewer & Water						
Power Equipment Operators- Underground Sewer & Water	Tunnel Segment Plant(group 4)	$69.70	**7B**	**4G**	**8U**	**View**
Power Equipment Operators- Underground Sewer & Water	Tunnel Separation Plant(group 4)	$69.70	**7B**	**4G**	**8U**	**View**
Power Equipment Operators- Underground Sewer & Water	Tunnel Shaef Loader(group 4)	$69.70	**7B**	**4G**	**8U**	**View**
Power Equipment Operators- Underground Sewer & Water	Tunnel, Locomotive, Dinkey(group 5)	$68.46	**7B**	**4G**	**8U**	**View**
Power Equipment Operators- Underground Sewer & Water	Tunnel, Micro Boring Tunnel Machine(group 1)	$76.09	**7B**	**4G**	**8U**	**View**
Power Equipment Operators- Underground Sewer & Water	Tunnel, Mucking Machine(group 4)	$69.70	**7B**	**4G**	**8U**	**View**
Power Equipment Operators- Underground Sewer & Water	Tunnel, Power Jumbo Setting Slip Forms, Etc. (group 5)	$68.46	**7B**	**4G**	**8U**	**View**
Power Equipment Operators- Underground Sewer & Water	Tunnel, Shield Operator(group 4)	$69.70	**7B**	**4G**	**8U**	**View**
Power Equipment Operators- Underground Sewer & Water	Ultra High Pressure Water Jet Cutting Tool System Operator(group 4)	$69.70	**7B**	**4G**	**8U**	**View**
Power Equipment Operators- Underground	Underwater Equipment, Remote Or	$74.18	**7B**	**4G**	**8U**	**View**

Sewer & Water	Otherwise(group 2)					
Power Equipment Operators- Underground Sewer & Water	Vacuum Blasting Machine Operator(group 4)	$69.70	**7B**	**4G**	**8U**	**View**
Power Equipment Operators- Underground Sewer & Water	Water Pulls, Water Wagon(group 4)	$69.70	**7B**	**4G**	**8U**	**View**
Power Equipment Operators- Underground Sewer & Water	Welder's Assistant(group 6)	$65.24	**7B**	**4G**	**8U**	**View**
Power Equipment Operators- Underground Sewer & Water	Welder; Heavy Duty, Certified Or Not(group 4)	$69.70	**7B**	**4G**	**8U**	**View**
Power Equipment Operators- Underground Sewer & Water	Welding Machine(group 6)	$65.24	**7B**	**4G**	**8U**	**View**
Power Equipment Operators- Underground Sewer & Water	Wheel Excavation Any Size (grade Oiler Required)(group 2)	$74.18	**7B**	**4G**	**8U**	**View**
Power Equipment Operators- Underground Sewer & Water	Wire Mat Or Brooming Machine(group 6)	$65.24	**7B**	**4G**	**8U**	**View**
Power Line Clearance Tree Trimmers	Groundman	$33.83	**7E**	**4A**		**View**
Power Line Clearance Tree Trimmers	Journey Level in Charge	$57.79	**7E**	**4A**		**View**
Power Line Clearance Tree Trimmers	Spray Person	$51.98	**7E**	**4A**		**View**
Power Line Clearance Tree Trimmers	Tree Equipment Operator	$57.79	**7E**	**4A**		**View**

Power Line Clearance Tree Trimmers	Tree Trimmer	$51.98	**7E**	**4A**	**View**
Refrigeration & Air Conditioning Mechanics	Journey Level	$99.52	**5Z**	**10**	**View**
Residential Brick Mason	Journey Level	$29.27		**1**	**View**
Residential Carpenters	Journey Level	$23.00		**1**	**View**
Residential Cement Masons	Journey Level	$65.18	**7E**	**1H**	**View**
Residential Drywall Applicators	Journey Level	$24.97		**1**	**View**
Residential Drywall Tapers	Journey Level	$25.80		**1**	**View**
Residential Electricians	Journey Level	$38.76		**1**	**View**
Residential Glaziers	Journey Level	$42.76		**1**	**View**
Residential Insulation Applicators	Journey Level	$28.53		**1**	**View**
Residential Laborers	Journey Level	$38.63		**1**	**View**
Residential Marble Setters	Journey Level	$22.73		**1**	**View**
Residential Painters	Journey Level	$28.68		**1**	**View**
Residential Plumbers & Pipefitters	Journey Level	$41.84		**1**	**View**
Residential Refrigeration & Air Conditioning Mechanics	Journey Level	$27.13		**1**	**View**
Residential Sheet Metal Workers	Journey Level (Field or Shop)	$61.42	**5A**	**1B**	**View**

Residential Soft Floor Layers	Journey Level	$17.50		**1**	**View**
Residential Sprinkler Fitters (Fire Protection)	Journey Level	$55.64		**1**	**View**
Residential Stone Masons	Journey Level	$35.66		**1**	**View**
Residential Terrazzo Workers	Journey Level	$16.66		**1**	**View**
Residential Terrazzo/Tile Finishers	Journey Level	$16.66		**1**	**View**
Residential Tile Setters	Journey Level	$25.32		**1**	**View**
Roofers	Journey Level	$64.22	**5I**	**1V**	**View**
Roofers	Using Irritable Bituminous Materials	$68.45	**5I**	**1V**	**View**
Sheet Metal Workers	Journey Level (Field or Shop)	$83.90	**5A**	**1B**	**View**
Shipbuilding & Ship Repair	New Construction Boilermaker	$37.07	**7W**	**4I**	**View**
Shipbuilding & Ship Repair	New Construction Crane Operator	$34.78	**7W**	**4I**	**View**
Shipbuilding & Ship Repair	New Construction Electrician	$30.06	**7W**	**4I**	**View**
Shipbuilding & Ship Repair	New Construction Fitter	$37.07	**7W**	**4I**	**View**
Shipbuilding & Ship Repair	New Construction Heat & Frost Insulator	$85.39	**5N**	**1F**	**View**
Shipbuilding & Ship Repair	New Construction Laborer	$25.55	**7W**	**4I**	**View**

Shipbuilding & Ship Repair	New Construction Loader/Rigger	$32.37	**7W**	**4I**	**View**
Shipbuilding & Ship Repair	New Construction Machinist	$44.42	**7W**	**4I**	**View**
Shipbuilding & Ship Repair	New Construction Mechanic	$42.23	**7W**	**4I**	**View**
Shipbuilding & Ship Repair	New Construction Painter	$34.78	**7W**	**4I**	**View**
Shipbuilding & Ship Repair	New Construction Sheet Metal	$37.16	**7W**	**4I**	**View**
Shipbuilding & Ship Repair	New Construction Warehouse / Yard Person	$29.87	**7W**	**4I**	**View**
Shipbuilding & Ship Repair	New Construction Welder / Burner	$37.07	**7W**	**4I**	**View**
Shipbuilding & Ship Repair	Ship Repair Boilermaker	$49.76	**7V**	**1B**	**View**
Shipbuilding & Ship Repair	Ship Repair Carpenter	$49.76	**7V**	**1B**	**View**
Shipbuilding & Ship Repair	Ship Repair Crane Operator	$49.76	**7V**	**1B**	**View**
Shipbuilding & Ship Repair	Ship Repair Electrician	$49.76	**7V**	**1B**	**View**
Shipbuilding & Ship Repair	Ship Repair Heat & Frost Insulator	$85.39	**5N**	**1F**	**View**
Shipbuilding & Ship Repair	Ship Repair Laborer	$49.76	**7V**	**1B**	**View**
Shipbuilding & Ship Repair	Ship Repair Machinist	$49.76	**7V**	**1B**	**View**
Shipbuilding & Ship Repair	Ship Repair Operating Engineer	$49.76	**7V**	**1B**	**View**

Shipbuilding & Ship Repair	Ship Repair Painter	$49.76	**7V**	**1B**		**View**
Shipbuilding & Ship Repair	Ship Repair Pipefitter	$49.76	**7V**	**1B**		**View**
Shipbuilding & Ship Repair	Ship Repair Rigger	$49.76	**7V**	**1B**		**View**
Shipbuilding & Ship Repair	Ship Repair Sheet Metal	$49.76	**7V**	**1B**		**View**
Shipbuilding & Ship Repair	Ship Repair Shipwright	$49.76	**7V**	**1B**		**View**
Shipbuilding & Ship Repair	Ship Repair Warehouse/Teamster	$49.76	**7V**	**1B**		**View**
Sign Makers & Installers (Electrical)	Journey Level	$19.27		**1**		**View**
Sign Makers & Installers (Non-Electrical)	Journey Level	$22.40		**1**		**View**
Soft Floor Layers	Journey Level	$63.29	**15J**	**4C**		**View**
Solar Controls For Windows	Journey Level	$16.66		**1**		**View**
Sprinkler Fitters (Fire Protection)	Journey Level	$75.89	**7J**	**1R**		**View**
Stage Rigging Mechanics (Non Structural)	Journey Level	$16.66		**1**		**View**
Stone Masons	Journey Level	$74.09	**5A**	**1B**		**View**
Street And Parking Lot Sweeper Workers	Journey Level	$16.66		**1**		**View**
Surveyors	Chain Person	$65.24	**7B**	**1B**	**9H**	**View**
Surveyors	Instrument Person	$68.46	**7B**	**1B**	**9H**	**View**

Surveyors	Party Chief	$74.18	**7B**	**1B**	**9H**	**View**
Telecommunication Technicians	Journey Level	$79.08	**5A**	**1B**		**View**
Telephone Line Construction - Outside	Cable Splicer	$41.35	**5A**	**2B**		**View**
Telephone Line Construction - Outside	Hole Digger/Ground Person	$27.31	**5A**	**2B**		**View**
Telephone Line Construction - Outside	Telephone Equipment Operator (Light)	$34.53	**5A**	**2B**		**View**
Telephone Line Construction - Outside	Telephone Lineperson	$39.07	**5A**	**2B**		**View**
Terrazzo Workers	Journey Level	$64.27	**5A**	**1B**		**View**
Tile Setters	Journey Level	$64.27	**5A**	**1B**		**View**
Tile, Marble & Terrazzo Finishers	Finishers	$47.95	**5A**	**1B**		**View**
Traffic Control Stripers	Journey Level	$88.42	**15N**	**1K**		**View**
Truck Drivers	Asphalt Mix Over 10 Yards	$49.39	**5A**	**1B**		**View**
Truck Drivers	Asphalt Mix To 10 Yards	$49.24	**5A**	**1B**		**View**
Truck Drivers	Dump Truck	$49.24	**5A**	**1B**		**View**
Truck Drivers	Dump Truck And Trailer	$49.39	**5A**	**1B**		**View**
Truck Drivers	Other Trucks	$49.39	**5A**	**1B**		**View**

Truck Drivers - Ready Mix	Transit Mix 5 cubic yards and under	$49.24	**5A**	**1B**		**View**
Truck Drivers - Ready Mix	Transit Mix over 11 cubic yards up to 15 cubic yards	$49.85	**5A**	**1B**		**View**
Truck Drivers - Ready Mix	Transit Mix over 5 cubic yards up to 7 cubic yards	$49.39	**5A**	**1B**		**View**
Truck Drivers - Ready Mix	Transit Mix Over 7 cubic yards up to 11 cubic yards	$49.54	**5A**	**1B**		**View**
Well Drillers & Irrigation Pump Installers	Irrigation Pump Installer	$16.66		**1**		**View**
Well Drillers & Irrigation Pump Installers	Oiler	$16.66		**1**		**View**
Well Drillers & Irrigation Pump Installers	Well Driller	$16.66		**1**		**View**

Spokane County

Trade^	Job Classification	Wage	Holiday	Overtime	Note	Risk Class
Asbestos Abatement Workers	Journey Level	$51.50	**7B**	**1M**	**8Z**	**View**
Boilermakers	Journey Level	$77.39	**5N**	**1C**		**View**
Brick Mason	Journey Level	$59.64	**5A**	**1M**		**View**
Building Service Employees	Janitor	$20.16	**5Q**	**1**		**View**
Building Service Employees	Shampooer	$20.17	**5Q**	**1**		**View**

Building Service Employees	Waxer	$20.17	5Q	1		View
Building Service Employees	Window Cleaner	$20.25	5Q	1		View
Cabinet Makers (In Shop)	Journey Level	$16.66		1		View
Carpenters	Acoustical Worker	$58.42	15J	11U	9L	View
Carpenters	Bridge, Dock & Wharf Carpenter	$62.42	15J	11U	9L	View
Carpenters	Floor Layer & Floor Finisher	$58.42	15J	11U	9L	View
Carpenters	Form Builder	$58.42	15J	11U	9L	View
Carpenters	General Carpenter	$58.42	15J	11U	9L	View
Carpenters	Heavy Construction Carpenter	$62.42	15J	11U	9L	View
Carpenters	Scaffold/Shoring Erecting & Dismantling	$62.42	15J	11U	9L	View
Cement Masons	Journey Level	$56.59	7B	1N		View
Divers & Tenders	Assistant Tender	$64.97	15J	11U	9I	View
Divers & Tenders	Bell/Vehicle or Submersible Operator Not Under Pressure	$69.29	15J	11U	9I	View
Divers & Tenders	Dive Master	$81.34	15J	11U	9I	View
Divers & Tenders	Dive Supervisor	$123.52	15J	11U	9I	View
Divers & Tenders	Diver (Diving)	$122.02	15J	11U	9I	View

Divers & Tenders	Diver Tender	$68.29	**15J**	**11U**	**9I**	**View**
Divers & Tenders	Manifold Operator	$68.29	**15J**	**11U**	**9I**	**View**
Divers & Tenders	Manifold Operator Mixed Gas	$72.29	**15J**	**11U**	**9I**	**View**
Divers & Tenders	ROV Operator	$68.29	**15J**	**11U**	**9I**	**View**
Divers & Tenders	ROV Tender/Technician	$64.97	**15J**	**11U**	**9I**	**View**
Divers & Tenders	Stand-By Diver	$69.29	**15J**	**11U**	**9I**	**View**
Dredge Workers	Assistant Engineer	$85.37	**5D**	**3F**		**View**
Dredge Workers	Assistant Mate (Deckhand)	$84.71	**5D**	**3F**		**View**
Dredge Workers	Boatmen	$85.37	**5D**	**3F**		**View**
Dredge Workers	Engineer Welder	$87.02	**5D**	**3F**		**View**
Dredge Workers	Leverman, Hydraulic	$88.77	**5D**	**3F**		**View**
Dredge Workers	Mates	$85.37	**5D**	**3F**		**View**
Dredge Workers	Oiler	$84.71	**5D**	**3F**		**View**
Drywall Applicator	Journey Level	$59.19	**15O**	**11S**		**View**
Drywall Tapers	Journey Level	$59.19	**15O**	**11S**		**View**
Electrical Fixture Maintenance Workers	Journey Level	$30.89		**1**		**View**
Electricians - Inside	Journeyman	$66.10	**7G**	**1E**		**View**
Electricians - Motor Shop	Craftsman	$16.66		**1**		**View**

Electricians - Motor Shop	Journey Level	$16.66		1		View
Electricians - Powerline Construction	Cable Splicer	$102.42	5A	4D		View
Electricians - Powerline Construction	Certified Line Welder	$93.99	5A	4D		View
Electricians - Powerline Construction	Groundperson	$59.30	5A	4D		View
Electricians - Powerline Construction	Heavy Line Equipment Operator	$93.99	5A	4D		View
Electricians - Powerline Construction	Journey Level Lineperson	$93.99	5A	4D		View
Electricians - Powerline Construction	Line Equipment Operator	$80.96	5A	4D		View
Electricians - Powerline Construction	Meter Installer	$59.30	5A	4D	8W	View
Electricians - Powerline Construction	Pole Sprayer	$93.99	5A	4D		View
Electricians - Powerline Construction	Powderperson	$69.84	5A	4D		View
Electronic Technicians	Journey Level	$56.78	5I	1B		View
Elevator Constructors	Mechanic	$115.14	7D	4A		View
Elevator Constructors	Mechanic In Charge	$124.53	7D	4A		View
Fabricated Precast Concrete Products	Journey Level	$20.23		1		View
Fabricated Precast Concrete Products	Journey Level - In-Factory Work Only	$20.23		1		View

Fence Erectors	Fence Erector	$51.50	**7B**	**1M**	**8Z**	**View**
Flaggers	Journey Level	$48.55	**7B**	**1M**	**8Z**	**View**
Glaziers	Journey Level	$46.70	**7L**	**4L**		**View**
Heat & Frost Insulators And Asbestos Workers	Journey Level	$65.80	**5K**	**1U**		**View**
Heating Equipment Mechanics	Journey Level	$74.38	**6Z**	**1B**		**View**
Hod Carriers & Mason Tenders	Journey Level	$53.84	**7B**	**1M**	**8Z**	**View**
Industrial Power Vacuum Cleaner	Journey Level	$16.66		**1**		**View**
Inland Boatmen	Journey Level	$16.66		**1**		**View**
Inspection/Cleaning/Sealing Of Sewer & Water Systems By Remote Control	Cleaner Operator, Foamer Operator	$16.66		**1**		**View**
Inspection/Cleaning/Sealing Of Sewer & Water Systems By Remote Control	Grout Truck Operator	$16.66		**1**		**View**
Inspection/Cleaning/Sealing Of Sewer & Water Systems By Remote Control	Head Operator	$16.66		**1**		**View**
Inspection/Cleaning/Sealing Of Sewer & Water Systems By Remote Control	Technician	$16.66		**1**		**View**
Inspection/Cleaning/Sealing Of Sewer & Water Systems By Remote Control	Tv Truck Operator	$16.66		**1**		**View**

Insulation Applicators	Journey Level	$58.42	**15J**	**11U**	**9L**	**View**
Ironworkers	Journeyman	$74.44	**15K**	**11N**		**View**
Laborers	Air And Hydraulic Track Drill	$52.14	**7B**	**1M**	**8Z**	**View**
Laborers	Asphalt Raker	$52.14	**7B**	**1M**	**8Z**	**View**
Laborers	Asphalt Roller, Walking	$51.82	**7B**	**1M**	**8Z**	**View**
Laborers	Brick Pavers	$51.50	**7B**	**1M**	**8Z**	**View**
Laborers	Brush Hog Feeder	$51.50	**7B**	**1M**	**8Z**	**View**
Laborers	Brush Machine	$52.14	**7B**	**1M**	**8Z**	**View**
Laborers	Caisson Worker, Free AIr	$52.14	**7B**	**1M**	**8Z**	**View**
Laborers	Carpenter Tender	$51.50	**7B**	**1M**	**8Z**	**View**
Laborers	Cement Finisher Tender	$51.82	**7B**	**1M**	**8Z**	**View**
Laborers	Cement Handler	$51.50	**7B**	**1M**	**8Z**	**View**
Laborers	Chain Saw Operator & Faller	$52.14	**7B**	**1M**	**8Z**	**View**
Laborers	Clean-up Laborer	$51.50	**7B**	**1M**	**8Z**	**View**
Laborers	Compaction Equipment	$51.82	**7B**	**1M**	**8Z**	**View**
Laborers	Concrete Crewman	$51.50	**7B**	**1M**	**8Z**	**View**

Laborers	Concrete Saw, Walking	$51.82	**7B**	**1M**	**8Z**	**View**
Laborers	Concrete Signalman	$51.50	**7B**	**1M**	**8Z**	**View**
Laborers	Concrete Stack	$52.14	**7B**	**1M**	**8Z**	**View**
Laborers	Confined Space Attendant	$51.50	**7B**	**1M**	**8Z**	**View**
Laborers	Construction Specialist	$52.34	**7B**	**1M**	**8Z**	**View**
Laborers	Crusher Feeder	$51.50	**7B**	**1M**	**8Z**	**View**
Laborers	Demolition	$51.50	**7B**	**1M**	**8Z**	**View**
Laborers	Demolition Torch	$51.82	**7B**	**1M**	**8Z**	**View**
Laborers	Dope Pot Fireman, Non-mechanical	$51.82	**7B**	**1M**	**8Z**	**View**
Laborers	Driller Helper (when Required To Move & Position Machine)	$51.82	**7B**	**1M**	**8Z**	**View**
Laborers	Drills With Dual Masts	$52.46	**7B**	**1M**	**8Z**	**View**
Laborers	Dry Stack Walls	$51.50	**7B**	**1M**	**8Z**	**View**
Laborers	Dumpman	$51.50	**7B**	**1M**	**8Z**	**View**
Laborers	Erosion Control Laborer	$51.50	**7B**	**1M**	**8Z**	**View**
Laborers	Firewatch	$51.50	**7B**	**1M**	**8Z**	**View**

Laborers	Form Cleaning Machine Feeder, Stacker	$51.50	**7B**	**1M**	**8Z**	**View**
Laborers	Form Setter, Paving	$51.82	**7B**	**1M**	**8Z**	**View**
Laborers	General Laborer	$51.50	**7B**	**1M**	**8Z**	**View**
Laborers	Grade Checker	$54.43	**7B**	**1M**	**8Z**	**View**
Laborers	Grout Machine Header Tender	$51.50	**7B**	**1M**	**8Z**	**View**
Laborers	Guard Rail	$51.50	**7B**	**1M**	**8Z**	**View**
Laborers	Gunite	$52.14	**7B**	**1M**	**8Z**	**View**
Laborers	Hazardous Waste Worker (level A)	$52.46	**7B**	**1M**	**8Z**	**View**
Laborers	Hazardous Waste Worker (level B)	$52.14	**7B**	**1M**	**8Z**	**View**
Laborers	Hazardous Waste Worker (level C)	$51.82	**7B**	**1M**	**8Z**	**View**
Laborers	Hazardous Waste Worker (level D)	$51.50	**7B**	**1M**	**8Z**	**View**
Laborers	Hdpe Or Similar Liner Installer	$51.50	**7B**	**1M**	**8Z**	**View**
Laborers	High Scaler	$52.14	**7B**	**1M**	**8Z**	**View**
Laborers	Industrial Technician	$73.60	**7B**	**1M**	**8Z**	**View**
Laborers	Jackhammer Operator Miner, Class "b"	$51.82	**7B**	**1M**	**8Z**	**View**

Laborers	Laser Beam Operator	$52.14	7B	1M	8Z	View
Laborers	Miner, Class "a"	$51.50	7B	1M	8Z	View
Laborers	Miner, Class "c"	$52.14	7B	1M	8Z	View
Laborers	Miner, Class "d"	$52.46	7B	1M	8Z	View
Laborers	Monitor Operator, Air Track Or Similar Mounting	$52.14	7B	1M	8Z	View
Laborers	Mortar Mixer	$52.14	7B	1M	8Z	View
Laborers	Nipper	$51.50	7B	1M	8Z	View
Laborers	Nozzleman	$52.14	7B	1M	8Z	View
Laborers	Nozzleman, Water (to Include Fire Hose), Air Or Steam	$51.82	7B	1M	8Z	View
Laborers	Pavement Breaker, 90 Lbs. & Over	$52.14	7B	1M	8Z	View
Laborers	Pavement Breaker, Under 90 Lbs.	$51.82	7B	1M	8Z	View
Laborers	Pilot Car	$48.55	7B	1M	8Z	View
Laborers	Pipelayer	$52.14	7B	1M	8Z	View
Laborers	Pipelayer, Corrugated Metal Culvert And Multi-Plate	$52.14	7B	1M	8Z	View
Laborers	Pipewrapper	$52.14	7B	1M	8Z	View
Laborers	Plasterer Tenders	$52.14	7B	1M	8Z	View

Laborers	Pot Tender	$51.82	**7B**	**1M**	**8Z**	**View**
Laborers	Powderman	$54.05	**7B**	**1M**	**8Z**	**View**
Laborers	Powederman Helper	$51.82	**7B**	**1M**	**8Z**	**View**
Laborers	Power Buggy Operator	$51.82	**7B**	**1M**	**8Z**	**View**
Laborers	Power Tool Operator, Gas, Electric, Pneumatic	$51.82	**7B**	**1M**	**8Z**	**View**
Laborers	Rad-Con Technician	$73.60	**7B**	**1M**	**8Z**	**View**
Laborers	Railroad Equipment, Power Driven, Except Dual Mobile	$51.82	**7B**	**1M**	**8Z**	**View**
Laborers	Railroad Power Spiker Or Puller, Dual Mobile	$51.82	**7B**	**1M**	**8Z**	**View**
Laborers	Remote Equipment Operator	$52.46	**7B**	**1M**	**8Z**	**View**
Laborers	Remote Equipment Operator (i.e Compaction And Demolition)	$51.82	**7B**	**1M**	**8Z**	**View**
Laborers	Rigger/signal Person	$51.82	**7B**	**1M**	**8Z**	**View**
Laborers	Riprap Person	$51.50	**7B**	**1M**	**8Z**	**View**
Laborers	Rodder & Spreader	$51.82	**7B**	**1M**	**8Z**	**View**
Laborers	Sand Hogs Under Compressed Air Conditions	$304.86	**7B**	**1M**	**8Z**	**View**

Laborers	Sandblast Tailhoseman	$51.50	**7B**	**1M**	**8Z**	**View**
Laborers	Scaffold Erector, Wood Or Steel	$51.50	**7B**	**1M**	**8Z**	**View**
Laborers	Scaleman	$48.55	**7B**	**1M**	**8Z**	**View**
Laborers	Stake Jumper	$51.50	**7B**	**1M**	**8Z**	**View**
Laborers	Structural Mover	$51.50	**7B**	**1M**	**8Z**	**View**
Laborers	Tailhoseman (water Nozzle)	$51.50	**7B**	**1M**	**8Z**	**View**
Laborers	Timber Bucker & Faller (by Hand)	$51.50	**7B**	**1M**	**8Z**	**View**
Laborers	Track Laborer (rr)	$51.50	**7B**	**1M**	**8Z**	**View**
Laborers	Traffic Control Laborer	$48.55	**7B**	**1M**	**8Z**	**View**
Laborers	Traffic Control Supervisor	$51.50	**7B**	**1M**	**8Z**	**View**
Laborers	Trencher, Shawnee	$51.82	**7B**	**1M**	**8Z**	**View**
Laborers	Trenchless Technology Technician	$52.14	**7B**	**1M**	**8Z**	**View**
Laborers	Truck Loader	$51.50	**7B**	**1M**	**8Z**	**View**
Laborers	Truck Mounted Attenuator	$48.55	**7B**	**1M**	**8Z**	**View**
Laborers	Tugger Operator	$51.82	**7B**	**1M**	**8Z**	**View**
Laborers	Vibrators, All	$52.14	**7B**	**1M**	**8Z**	**View**

Laborers	Wagon Drills	$51.82	**7B**	**1M**	**8Z**	**View**
Laborers	Water Pipe Liner	$51.82	**7B**	**1M**	**8Z**	**View**
Laborers	Welder, Electrical, Manual Or Automatic (hdpe Or Similar Pipe And Liner)	$52.46	**7B**	**1M**	**8Z**	**View**
Laborers	Well-point Person	$51.50	**7B**	**1M**	**8Z**	**View**
Laborers	Wheelbarrow, Power Driven	$51.82	**7B**	**1M**	**8Z**	**View**
Laborers	Window Washer, Cleaner	$48.55	**7B**	**1M**	**8Z**	**View**
Laborers - Underground Sewer & Water	General Laborer & Topman	$52.14	**7B**	**1M**	**8Z**	**View**
Laborers - Underground Sewer & Water	Pipe Layer	$52.14	**7B**	**1M**	**8Z**	**View**
Landscape Construction	Landscape Laborer	$48.55	**7B**	**1M**	**8Z**	**View**
Landscape Construction	Landscape Operator	$59.63	**7Z**	**4S**	**9A**	**View**
Landscape Maintenance	Groundskeeper	$16.66		**1**		**View**
Lathers	Journey Level	$59.19	**15O**	**11S**		**View**
Marble Setters	Journey Level	$59.64	**5A**	**1M**		**View**
Metal Fabrication (In Shop)	Fitter	$16.66		**1**		**View**
Metal Fabrication (In Shop)	Laborer	$16.66		**1**		**View**
Metal Fabrication (In Shop)	Machine Operator	$16.66		**1**		**View**

Metal Fabrication (In Shop)	Painter	$16.66		1		View
Metal Fabrication (In Shop)	Welder	$16.66		1		View
Millwright	Journey Level	$79.33	5A	1B		View
Modular Buildings	Journey Level	$16.66		1		View
Painters	Commercial Painter	$47.26	6Z	1W		View
Painters	Industrial Painter	$54.58	6Z	1W	9D	View
Pile Driver	Journey Level	$64.02	15J	11U	9L	View
Plasterers	Journey Level	$56.27	7K	1N		View
Playground & Park Equipment Installers	Journey Level	$16.66		1		View
Plumbers & Pipefitters	Journey Level	$74.03	7E	1J		View
Power Equipment Operators	A-frame Truck (2 Or More Drums)	$59.44	7Z	4S	9A	View
Power Equipment Operators	A-frame Truck (single Drum)	$58.73	7Z	4S	9A	View
Power Equipment Operators	All Tower Cranes	$64.09	7Z	4S	9A	View
Power Equipment Operators	Asphalt Plant Operator	$60.14	7Z	4S	9A	View
Power Equipment Operators	Assistant Plant Operator, Fireman Or Pugmixer (asphalt)	$58.73	7Z	4S	9A	View
Power Equipment Operators	Assistant Refrigeration Plant &	$59.44	7Z	4S	9A	View

	Chiller Operator (over 1000 Ton)					
Power Equipment Operators	Assistant Refrigeration Plant (under 1000 Ton)	$58.73	7Z	4S	9A	View
Power Equipment Operators	Automatic Subgrader (ditches & Trimmers)	$60.14	7Z	4S	9A	View
Power Equipment Operators	Backfillers (cleveland & Similar)	$59.44	7Z	4S	9A	View
Power Equipment Operators	Backhoe & Hoe Ram (under 3/4 Yd.)	$59.82	7Z	4S	9A	View
Power Equipment Operators	Backhoe (45,000 Gw & Under)	$59.82	7Z	4S	9A	View
Power Equipment Operators	Backhoe (45,000 Gw To 110,000 Gw)	$60.14	7Z	4S	9A	View
Power Equipment Operators	Backhoe (over 110,000 Gw)	$60.46	7Z	4S	9A	View
Power Equipment Operators	Backhoes & Hoe Ram (3 Yds & Over)	$60.46	7Z	4S	9A	View
Power Equipment Operators	Backhoes & Hoe Ram (3/4 Yd. To 3 Yd.)	$60.14	7Z	4S	9A	View
Power Equipment Operators	Bagley Or Stationary Scraper	$58.73	7Z	4S	9A	View
Power Equipment Operators	Batch & Wet Mix Operator (multiple Units, 2 & Incl. 4)	$60.14	7Z	4S	9A	View
Power Equipment Operators	Batch Plant & Wet Mix Operator, Single Unit (concrete)	$59.44	7Z	4S	9A	View

Power Equipment Operators	Batch Plant (over 4 Units)	$60.14	7Z	4S	9A	View
Power Equipment Operators	Belt Finishing Machine	$58.73	7Z	4S	9A	View
Power Equipment Operators	Belt Loader (kocal Or Similar)	$59.44	7Z	4S	9A	View
Power Equipment Operators	Belt-crete Conveyors With Power Pack Or Similar	$59.44	7Z	4S	9A	View
Power Equipment Operators	Bending Machine	$59.44	7Z	4S	9A	View
Power Equipment Operators	Bit Grinders	$58.36	7Z	4S	9A	View
Power Equipment Operators	Blade (finish & Bluetop), Automatic, Cmi, Abc, Finish Athey & Huber & Similar When Used As Automatic	$60.46	7Z	4S	9A	View
Power Equipment Operators	Blade Operator (motor Patrol & Attachments)	$60.14	7Z	4S	9A	View
Power Equipment Operators	Blower Operator (cement)	$58.73	7Z	4S	9A	View
Power Equipment Operators	Boat Operator	$58.36	7Z	4S	9A	View
Power Equipment Operators	Bob Cat (skid Steer)	$59.44	7Z	4S	9A	View
Power Equipment Operators	Bolt Threading Machine	$58.36	7Z	4S	9A	View
Power Equipment Operators	Boom Cats (side)	$60.14	7Z	4S	9A	View

Power Equipment Operators	Boring Machine (earth)	$59.44	7Z	4S	9A	View
Power Equipment Operators	Boring Machine (Rock Under 8 inch Bit - Quarry Master, Joy Or Similar)	$59.44	7Z	4S	9A	View
Power Equipment Operators	Bump Cutter (wayne, Saginau Or Similar)	$59.44	7Z	4S	9A	View
Power Equipment Operators	Cableway Controller (dispatcher)	$60.14	7Z	4S	9A	View
Power Equipment Operators	Cableway Operators	$60.46	7Z	4S	9A	View
Power Equipment Operators	Canal Lining Machine (concrete)	$59.44	7Z	4S	9A	View
Power Equipment Operators	Carrydeck & Boom Truck (under 25 Tons)	$59.82	7Z	4S	9A	View
Power Equipment Operators	Cement Hog	$58.73	7Z	4S	9A	View
Power Equipment Operators	Chipper (Without Crane)	$59.44	7Z	4S	9A	View
Power Equipment Operators	Clamshell, Dragline	$62.33	7Z	4S	9A	View
Power Equipment Operators	Cleaning & Doping Machine (Pipeline)	$59.44	7Z	4S	9A	View
Power Equipment Operators	Compactor (self-propelled With Blade)	$60.14	7Z	4S	9A	View
Power Equipment Operators	Compressor (2000 Cfm Or Over, 2 Or More, Gas Diesel Or Electric Power)	$58.73	7Z	4S	9A	View

Power Equipment Operators	Compressors (under 2000 Cfm, Gas, Diesel Or Electric Power)	$58.36	7Z	4S	9A	View
Power Equipment Operators	Concrete Cleaning / Decontamination Machine Operator	$60.46	7Z	4S	9A	View
Power Equipment Operators	Concrete Pump Boom Truck	$60.14	7Z	4S	9A	View
Power Equipment Operators	Concrete Pumps (squeeze-crete, Flow-crete, Whitman & Similar)	$59.63	7Z	4S	9A	View
Power Equipment Operators	Concrete Saw (multiple Cut)	$58.73	7Z	4S	9A	View
Power Equipment Operators	Concrete Slip Form Paver	$60.14	7Z	4S	9A	View
Power Equipment Operators	Conveyor Aggregate Delivery Systems (c.a.d.)	$60.14	7Z	4S	9A	View
Power Equipment Operators	Crane Oiler & Cable Tender, Mucking Machine	$58.36	7Z	4S	9A	View
Power Equipment Operators	Crane Oiler - Driver (cdl Required)	$58.73	7Z	4S	9A	View
Power Equipment Operators	Cranes (100 to 299 Tons) All Attachments	$63.26	7Z	4S	9A	View
Power Equipment Operators	Cranes (25 Tons & Under), All	$59.82	7Z	4S	9A	View

	Attachments Incl. Clamshell, Dragline					
Power Equipment Operators	Cranes (25 Tons To And Including 44 Tons), All Attachments Incl. Clamshell, Dragline	$60.14	**7Z**	**4S**	**9A**	**View**
Power Equipment Operators	Cranes (300 Tons and Over) All Attachments	$64.09	**7Z**	**4S**	**9A**	**View**
Power Equipment Operators	Cranes (45 Tons To 55 Tons), All Attachments Incl. Clamshell And Dragline	$60.46	**7Z**	**4S**	**9A**	**View**
Power Equipment Operators	Cranes (56 to 99 tons) and overhead, rail and Quick Tower. All attachment incl. Clamshell, Dragline	$62.33	**7Z**	**4S**	**9A**	**View**
Power Equipment Operators	Crusher Feeder	$58.36	**7Z**	**4S**	**9A**	**View**
Power Equipment Operators	Crusher, Grizzle & Screening Plant Operator	$60.14	**7Z**	**4S**	**9A**	**View**
Power Equipment Operators	Curb Extruder (asphalt Or Concrete)	$59.63	**7Z**	**4S**	**9A**	**View**
Power Equipment Operators	Deck Engineer	$59.44	**7Z**	**4S**	**9A**	**View**
Power Equipment Operators	Deck Hand	$58.36	**7Z**	**4S**	**9A**	**View**
Power Equipment Operators	Derricks & Stifflegs (65 Tons & Over)	$60.46	**7Z**	**4S**	**9A**	**View**

Power Equipment Operators	Derricks & Stifflegs (under 65 Tons)	$59.82	7Z	4S	9A	View
Power Equipment Operators	Distributor Leverman	$58.73	7Z	4S	9A	View
Power Equipment Operators	Ditch Witch Or Similar	$58.73	7Z	4S	9A	View
Power Equipment Operators	Dope Pots (power Agitated	$58.73	7Z	4S	9A	View
Power Equipment Operators	Dozer / Tractor (up To D-5 Or Equivalent) And Traxcavator	$59.44	7Z	4S	9A	View
Power Equipment Operators	Dozer / Tractors (d-6 & Equivalent & Over)	$60.14	7Z	4S	9A	View
Power Equipment Operators	Dozer, 834 R/t & Similar	$60.14	7Z	4S	9A	View
Power Equipment Operators	Drill Doctor	$60.14	7Z	4S	9A	View
Power Equipment Operators	Driller Licensed	$62.33	7Z	4S	9A	View
Power Equipment Operators	Drillers Helper	$58.36	7Z	4S	9A	View
Power Equipment Operators	Drilling Equipment (8 inch Bit & Over - Robbins, Reverse Circulation & Similar)	$59.82	7Z	4S	9A	View
Power Equipment Operators	Drills (churn, Core, Calyx Or Diamond)	$59.63	7Z	4S	9A	View
Power Equipment Operators	Elevating Belt (holland Type)	$60.46	7Z	4S	9A	View
Power Equipment Operators	Elevating Belt-type Loader (euclid, Barber Green & Similar)	$59.44	7Z	4S	9A	View

Power Equipment Operators	Elevating Grader-type Loader (dumor, Adams Or Similar)	$59.44	7Z	4S	9A	View
Power Equipment Operators	Elevator Hoisting Materials	$58.73	7Z	4S	9A	View
Power Equipment Operators	Equipment Serviceman, Greaser & Oiler	$59.63	7Z	4S	9A	View
Power Equipment Operators	Fireman & Heater Tender	$58.36	7Z	4S	9A	View
Power Equipment Operators	Fork Lift Or Lumber Stacker, Hydra-life & Similar	$58.73	7Z	4S	9A	View
Power Equipment Operators	Generator Plant Engineers (diesel Or Electric)	$59.44	7Z	4S	9A	View
Power Equipment Operators	Gin Trucks (pipeline)	$58.73	7Z	4S	9A	View
Power Equipment Operators	Grade Checker	$59.82	7Z	4S	9A	View
Power Equipment Operators	Gunite Combination Mixer & Compressor	$59.44	7Z	4S	9A	View
Power Equipment Operators	H.d. Mechanic	$60.46	7Z	4S	9A	View
Power Equipment Operators	H.d. Welder	$60.46	7Z	4S	9A	View
Power Equipment Operators	Heavy Equipment Robotics Operator	$60.46	7Z	4S	9A	View
Power Equipment Operators	Helicopter Pilot	$62.33	7Z	4S	9A	View
Power Equipment Operators	Helper, Mechanic Or Welder, H.D	$58.36	7Z	4S	9A	View

Power Equipment Operators	Hoe Ram	$59.82	7Z	4S	9A	View
Power Equipment Operators	Hoist (2 Or More Drums Or Tower Hoist)	$59.63	7Z	4S	9A	View
Power Equipment Operators	Hoist, Single Drum	$58.73	7Z	4S	9A	View
Power Equipment Operators	Hydraulic Platform Trailers (goldhofer, Shaurerly And Similar)	$60.46	7Z	4S	9A	View
Power Equipment Operators	Hydro-seeder, Mulcher, Nozzleman	$58.36	7Z	4S	9A	View
Power Equipment Operators	Lime Batch Tank Operator (recycle Train)	$60.14	7Z	4S	9A	View
Power Equipment Operators	Lime Brain Operator (recycle Train)	$60.14	7Z	4S	9A	View
Power Equipment Operators	Loader (360 Degrees Revolving Koehring Scooper Or Similar)	$60.46	7Z	4S	9A	View
Power Equipment Operators	Loader Operator (front-end & Overhead, 4 Yds. Incl. 8 Yds.)	$60.14	7Z	4S	9A	View
Power Equipment Operators	Loaders (bucket Elevators And Conveyors)	$58.73	7Z	4S	9A	View
Power Equipment Operators	Loaders (overhead & Front-end, Over 8 Yds.)	$60.46	7Z	4S	9A	View

Power Equipment Operators	Loaders (overhead & Front-end, Under 4 Yds.. R/t)	$59.63	7Z	4S	9A	View
Power Equipment Operators	Loaders (overhead And Front-end, 10 Yds. & Over)	$62.33	7Z	4S	9A	View
Power Equipment Operators	Locomotive Engineer	$59.44	7Z	4S	9A	View
Power Equipment Operators	Longitudinal Float	$58.73	7Z	4S	9A	View
Power Equipment Operators	Master Environmental Maintenance Technician	$60.46	7Z	4S	9A	View
Power Equipment Operators	Mixer (portable - Concrete)	$58.73	7Z	4S	9A	View
Power Equipment Operators	Mixermobile	$59.44	7Z	4S	9A	View
Power Equipment Operators	Mobile Crusher Operator (recycle Train)	$60.14	7Z	4S	9A	View
Power Equipment Operators	Mucking Machine	$59.44	7Z	4S	9A	View
Power Equipment Operators	Multiple Dozer Units With Single Blade	$60.14	7Z	4S	9A	View
Power Equipment Operators	Pavement Breaker, Hydra-hammer & Similar	$58.73	7Z	4S	9A	View
Power Equipment Operators	Paving (dual Drum)	$59.82	7Z	4S	9A	View
Power Equipment Operators	Paving Machine (asphalt And Concrete)	$60.14	7Z	4S	9A	View

Power Equipment Operators	Piledriving Engineers	$59.82	7Z	4S	9A	View
Power Equipment Operators	Plant Oiler	$58.36	7Z	4S	9A	View
Power Equipment Operators	Posthole Auger Or Punch	$59.44	7Z	4S	9A	View
Power Equipment Operators	Power Broom	$58.73	7Z	4S	9A	View
Power Equipment Operators	Pump (grout Or Jet)	$59.44	7Z	4S	9A	View
Power Equipment Operators	Pumpman	$58.36	7Z	4S	9A	View
Power Equipment Operators	Quad-track Or Similar Equipment	$60.14	7Z	4S	9A	View
Power Equipment Operators	Railroad Ballast Regulation Operator (self-propelled)	$58.73	7Z	4S	9A	View
Power Equipment Operators	Railroad Power Tamper Operator (self-propelled)	$58.73	7Z	4S	9A	View
Power Equipment Operators	Railroad Tamper Jack Operator (self-propelled)	$58.73	7Z	4S	9A	View
Power Equipment Operators	Railroad Track Liner Operator (self-propelled)	$59.82	7Z	4S	9A	View
Power Equipment Operators	Refrigeration Plant Engineer (1000 Tons & Over)	$59.82	7Z	4S	9A	View
Power Equipment Operators	Refrigeration Plant Engineer (under 1000 Ton)	$59.63	7Z	4S	9A	View

Power Equipment Operators	Rollerman (finishing Asphalt Pavement)	$60.14	7Z	4S	9A	View
Power Equipment Operators	Rollers, All Types On Subgrade, Including Seal And Chip Coating (farm Type, Case, John Deere And Similar,or Compacting Vibrator), Except When Pulled B	$58.36	7Z	4S	9A	View
Power Equipment Operators	Roto Mill (pavement Grinder)	$60.14	7Z	4S	9A	View
Power Equipment Operators	Rotomill Groundsman	$59.63	7Z	4S	9A	View
Power Equipment Operators	Rubber-tired Scrapers (multiple Engine With Three Or More Scrapers)	$60.46	7Z	4S	9A	View
Power Equipment Operators	Rubber-tired Skidders (r/t With Or Without Attachments)	$59.63	7Z	4S	9A	View
Power Equipment Operators	Scrapers, All, Rubber-tired	$60.14	7Z	4S	9A	View
Power Equipment Operators	Screed Operator	$60.14	7Z	4S	9A	View
Power Equipment Operators	Shovels (3 Yds. & Over)	$60.46	7Z	4S	9A	View
Power Equipment Operators	Shovels (under 3 Yds.)	$60.14	7Z	4S	9A	View
Power Equipment Operators	Signalman (whirleys, Highline,	$59.82	7Z	4S	9A	View

	Hammerheads Or Similar)					
Power Equipment Operators	Soil Stabilizer (p & H Or Similar)	$59.44	7Z	4S	9A	View
Power Equipment Operators	Spray Curing Machine (concrete)	$58.73	7Z	4S	9A	View
Power Equipment Operators	Spreader Box (self-propelled)	$58.73	7Z	4S	9A	View
Power Equipment Operators	Spreader Machine	$59.44	7Z	4S	9A	View
Power Equipment Operators	Steam Cleaner	$58.36	7Z	4S	9A	View
Power Equipment Operators	Straddle Buggy (ross & Similar On Construction Job Only)	$58.73	7Z	4S	9A	View
Power Equipment Operators	Surface Heater & Planer Machine	$59.63	7Z	4S	9A	View
Power Equipment Operators	Tractor (farm Type R/t With Attachments, Except Backhoe)	$58.73	7Z	4S	9A	View
Power Equipment Operators	Traverse Finish Machine	$59.44	7Z	4S	9A	View
Power Equipment Operators	Trenching Machines (7 Ft. Depth & Over)	$60.14	7Z	4S	9A	View
Power Equipment Operators	Trenching Machines (under 7 Ft. Depth Capacity)	$59.63	7Z	4S	9A	View
Power Equipment Operators	Tug Boat Operator	$60.14	7Z	4S	9A	View

Power Equipment Operators	Tugger Operator	$58.73	7Z	4S	9A	View
Power Equipment Operators	Turnhead (with Re-screening)	$59.63	7Z	4S	9A	View
Power Equipment Operators	Turnhead Operator	$59.44	7Z	4S	9A	View
Power Equipment Operators	Ultra High Pressure Wateriet Cutting Tool System Operator, (30,000 Psi)	$60.46	7Z	4S	9A	View
Power Equipment Operators	Vactor Guzzler, Super Sucker	$60.14	7Z	4S	9A	View
Power Equipment Operators	Vacuum Blasting Machine Operator	$60.46	7Z	4S	9A	View
Power Equipment Operators	Vacuum Drill (reverse Circulation Drill Under 8 Inch Bit)	$59.63	7Z	4S	9A	View
Power Equipment Operators	Welding Machine	$58.36	7Z	4S	9A	View
Power Equipment Operators	Whirleys & Hammerheads, All	$60.46	7Z	4S	9A	View
Power Equipment Operators-Underground Sewer & Water	A-frame Truck (2 Or More Drums)	$59.44	7Z	4S	9A	View
Power Equipment Operators-Underground Sewer & Water	A-frame Truck (single Drum)	$58.73	7Z	4S	9A	View
Power Equipment Operators-Underground Sewer & Water	All Tower Cranes	$64.09	7Z	4S	9A	View
Power Equipment Operators-Underground Sewer & Water	Asphalt Plant Operator	$60.14	7Z	4S	9A	View

Power Equipment Operators-Underground Sewer & Water	Assistant Plant Operator, Fireman Or Pugmixer (asphalt)	$58.73	**7Z**	**4S**	**9A**	**View**
Power Equipment Operators-Underground Sewer & Water	Assistant Refrigeration Plant & Chiller Operator (over 1000 Ton)	$59.44	**7Z**	**4S**	**9A**	**View**
Power Equipment Operators-Underground Sewer & Water	Assistant Refrigeration Plant (under 1000 Ton)	$58.73	**7Z**	**4S**	**9A**	**View**
Power Equipment Operators-Underground Sewer & Water	Automatic Subgrader (ditches & Trimmers)	$60.14	**7Z**	**4S**	**9A**	**View**
Power Equipment Operators-Underground Sewer & Water	Backfillers (cleveland & Similar)	$59.44	**7Z**	**4S**	**9A**	**View**
Power Equipment Operators-Underground Sewer & Water	Backhoe & Hoe Ram (under 3/4 Yd.)	$59.82	**7Z**	**4S**	**9A**	**View**
Power Equipment Operators-Underground Sewer & Water	Backhoe (45,000 Gw & Under)	$59.82	**7Z**	**4S**	**9A**	**View**
Power Equipment Operators-Underground Sewer & Water	Backhoe (45,000 Gw To 110,000 Gw)	$60.14	**7Z**	**4S**	**9A**	**View**
Power Equipment Operators-Underground Sewer & Water	Backhoe (over 110,000 Gw)	$60.46	**7Z**	**4S**	**9A**	**View**
Power Equipment Operators-Underground Sewer & Water	Backhoes & Hoe Ram (3 Yds & Over)	$60.46	**7Z**	**4S**	**9A**	**View**
Power Equipment Operators-Underground Sewer & Water	Backhoes & Hoe Ram (3/4 Yd. To 3 Yd.)	$60.14	**7Z**	**4S**	**9A**	**View**
Power Equipment Operators-Underground Sewer & Water	Bagley Or Stationary Scraper	$58.73	**7Z**	**4S**	**9A**	**View**

Power Equipment Operators-Underground Sewer & Water	Batch & Wet Mix Operator (multiple Units, 2 & Incl. 4)	$60.14	7Z	4S	9A	View
Power Equipment Operators-Underground Sewer & Water	Batch Plant & Wet Mix Operator, Single Unit (concrete)	$59.44	7Z	4S	9A	View
Power Equipment Operators-Underground Sewer & Water	Batch Plant (over 4 Units)	$60.14	7Z	4S	9A	View
Power Equipment Operators-Underground Sewer & Water	Belt Finishing Machine	$58.73	7Z	4S	9A	View
Power Equipment Operators-Underground Sewer & Water	Belt Loader (kocal Or Similar)	$59.44	7Z	4S	9A	View
Power Equipment Operators-Underground Sewer & Water	Belt-crete Conveyors With Power Pack Or Similar	$59.44	7Z	4S	9A	View
Power Equipment Operators-Underground Sewer & Water	Bending Machine	$59.44	7Z	4S	9A	View
Power Equipment Operators-Underground Sewer & Water	Bit Grinders	$58.36	7Z	4S	9A	View
Power Equipment Operators-Underground Sewer & Water	Blade (finish & Bluetop), Automatic, Cmi, Abc, Finish Athey & Huber & Similar When Used As Automatic	$60.46	7Z	4S	9A	View
Power Equipment Operators-Underground Sewer & Water	Blade Operator (motor Patrol & Attachments)	$60.14	7Z	4S	9A	View
Power Equipment Operators-Underground Sewer & Water	Blower Operator (cement)	$58.73	7Z	4S	9A	View

Power Equipment Operators-Underground Sewer & Water	Boat Operator	$58.36	7Z	4S	9A	View
Power Equipment Operators-Underground Sewer & Water	Bob Cat (skid Steer)	$59.44	7Z	4S	9A	View
Power Equipment Operators-Underground Sewer & Water	Bolt Threading Machine	$58.36	7Z	4S	9A	View
Power Equipment Operators-Underground Sewer & Water	Boom Cats (side)	$60.14	7Z	4S	9A	View
Power Equipment Operators-Underground Sewer & Water	Boring Machine (earth)	$59.44	7Z	4S	9A	View
Power Equipment Operators-Underground Sewer & Water	Boring Machine (Rock Under 8 inch Bit - Quarry Master, Joy Or Similar)	$59.44	7Z	4S	9A	View
Power Equipment Operators-Underground Sewer & Water	Bump Cutter (wayne, Saginau Or Similar)	$59.44	7Z	4S	9A	View
Power Equipment Operators-Underground Sewer & Water	Cableway Controller (dispatcher)	$60.14	7Z	4S	9A	View
Power Equipment Operators-Underground Sewer & Water	Cableway Operators	$60.46	7Z	4S	9A	View
Power Equipment Operators-Underground Sewer & Water	Canal Lining Machine (concrete)	$59.44	7Z	4S	9A	View
Power Equipment Operators-Underground Sewer & Water	Carrydeck & Boom Truck (under 25 Tons)	$59.82	7Z	4S	9A	View
Power Equipment Operators-Underground Sewer & Water	Cement Hog	$58.73	7Z	4S	9A	View
Power Equipment Operators-Underground Sewer & Water	Chipper (Without Crane)	$59.44	7Z	4S	9A	View

Power Equipment Operators-Underground Sewer & Water	Clamshell, Dragline	$62.33	7Z	4S	9A	View
Power Equipment Operators-Underground Sewer & Water	Cleaning & Doping Machine (Pipeline)	$59.44	7Z	4S	9A	View
Power Equipment Operators-Underground Sewer & Water	Compactor (self-propelled With Blade)	$60.14	7Z	4S	9A	View
Power Equipment Operators-Underground Sewer & Water	Compressor (2000 Cfm Or Over, 2 Or More, Gas Diesel Or Electric Power)	$58.73	7Z	4S	9A	View
Power Equipment Operators-Underground Sewer & Water	Compressors (under 2000 Cfm, Gas, Diesel Or Electric Power)	$58.36	7Z	4S	9A	View
Power Equipment Operators-Underground Sewer & Water	Concrete Cleaning / Decontamination Machine Operator	$60.46	7Z	4S	9A	View
Power Equipment Operators-Underground Sewer & Water	Concrete Pump Boom Truck	$60.14	7Z	4S	9A	View
Power Equipment Operators-Underground Sewer & Water	Concrete Pumps (squeeze-crete, Flow-crete, Whitman & Similar)	$59.63	7Z	4S	9A	View
Power Equipment Operators-Underground Sewer & Water	Concrete Saw (multiple Cut)	$58.73	7Z	4S	9A	View
Power Equipment Operators-Underground Sewer & Water	Concrete Slip Form Paver	$60.14	7Z	4S	9A	View
Power Equipment Operators-Underground Sewer & Water	Conveyor Aggregate Delivery Systems (c.a.d.)	$60.14	7Z	4S	9A	View

Power Equipment Operators-Underground Sewer & Water	Crane Oiler & Cable Tender, Mucking Machine	$58.36	7Z	4S	9A	View
Power Equipment Operators-Underground Sewer & Water	Crane Oiler - Driver (cdl Required)	$58.73	7Z	4S	9A	View
Power Equipment Operators-Underground Sewer & Water	Cranes (100 to 299 Tons) All Attachments	$63.26	7Z	4S	9A	View
Power Equipment Operators-Underground Sewer & Water	Cranes (25 Tons & Under), All Attachments Incl. Clamshell, Dragline	$59.82	7Z	4S	9A	View
Power Equipment Operators-Underground Sewer & Water	Cranes (25 Tons To And Including 44 Tons), All Attachments Incl. Clamshell, Dragline	$60.14	7Z	4S	9A	View
Power Equipment Operators-Underground Sewer & Water	Cranes (300 Tons and Over) All Attachments	$64.09	7Z	4S	9A	View
Power Equipment Operators-Underground Sewer & Water	Cranes (45 Tons To 55 Tons), All Attachments Incl. Clamshell And Dragline	$60.46	7Z	4S	9A	View
Power Equipment Operators-Underground Sewer & Water	Cranes (56 to 99 tons) and overhead, rail and Quick Tower. All attachment incl. Clamshell, Dragline	$62.33	7Z	4S	9A	View
Power Equipment Operators-Underground Sewer & Water	Crusher Feeder	$58.36	7Z	4S	9A	View

Power Equipment Operators-Underground Sewer & Water	Crusher, Grizzle & Screening Plant Operator	$60.14	7Z	4S	9A	View
Power Equipment Operators-Underground Sewer & Water	Curb Extruder (asphalt Or Concrete)	$59.63	7Z	4S	9A	View
Power Equipment Operators-Underground Sewer & Water	Deck Engineer	$59.44	7Z	4S	9A	View
Power Equipment Operators-Underground Sewer & Water	Deck Hand	$58.36	7Z	4S	9A	View
Power Equipment Operators-Underground Sewer & Water	Derricks & Stifflegs (65 Tons & Over)	$60.46	7Z	4S	9A	View
Power Equipment Operators-Underground Sewer & Water	Derricks & Stifflegs (under 65 Tons)	$59.82	7Z	4S	9A	View
Power Equipment Operators-Underground Sewer & Water	Distributor Leverman	$58.73	7Z	4S	9A	View
Power Equipment Operators-Underground Sewer & Water	Ditch Witch Or Similar	$58.73	7Z	4S	9A	View
Power Equipment Operators-Underground Sewer & Water	Dope Pots (power Agitated	$58.73	7Z	4S	9A	View
Power Equipment Operators-Underground Sewer & Water	Dozer / Tractor (up To D-5 Or Equivalent) And Traxcavator	$59.44	7Z	4S	9A	View
Power Equipment Operators-Underground Sewer & Water	Dozer / Tractors (d-6 & Equivalent & Over)	$60.14	7Z	4S	9A	View
Power Equipment Operators-Underground Sewer & Water	Dozer, 834 R/t & Similar	$60.14	7Z	4S	9A	View
Power Equipment Operators-Underground Sewer & Water	Drill Doctor	$60.14	7Z	4S	9A	View

Power Equipment Operators-Underground Sewer & Water	Driller Licensed	$62.33	7Z	4S	9A	View
Power Equipment Operators-Underground Sewer & Water	Drillers Helper	$58.36	7Z	4S	9A	View
Power Equipment Operators-Underground Sewer & Water	Drilling Equipment (8 inch Bit & Over - Robbins, Reverse Circulation & Similar)	$59.82	7Z	4S	9A	View
Power Equipment Operators-Underground Sewer & Water	Drills (churn, Core, Calyx Or Diamond)	$59.63	7Z	4S	9A	View
Power Equipment Operators-Underground Sewer & Water	Elevating Belt (holland Type)	$60.46	7Z	4S	9A	View
Power Equipment Operators-Underground Sewer & Water	Elevating Belt-type Loader (euclid, Barber Green & Similar)	$59.44	7Z	4S	9A	View
Power Equipment Operators-Underground Sewer & Water	Elevating Grader-type Loader (dumor, Adams Or Similar)	$59.44	7Z	4S	9A	View
Power Equipment Operators-Underground Sewer & Water	Elevator Hoisting Materials	$58.73	7Z	4S	9A	View
Power Equipment Operators-Underground Sewer & Water	Equipment Serviceman, Greaser & Oiler	$59.63	7Z	4S	9A	View
Power Equipment Operators-Underground Sewer & Water	Fireman & Heater Tender	$58.36	7Z	4S	9A	View
Power Equipment Operators-Underground Sewer & Water	Fork Lift Or Lumber Stacker, Hydra-life & Similar	$58.73	7Z	4S	9A	View

Power Equipment Operators-Underground Sewer & Water	Generator Plant Engineers (diesel Or Electric)	$59.44	7Z	4S	9A	View
Power Equipment Operators-Underground Sewer & Water	Gin Trucks (pipeline)	$58.73	7Z	4S	9A	View
Power Equipment Operators-Underground Sewer & Water	Grade Checker	$59.82	7Z	4S	9A	View
Power Equipment Operators-Underground Sewer & Water	Gunite Combination Mixer & Compressor	$59.44	7Z	4S	9A	View
Power Equipment Operators-Underground Sewer & Water	H.d. Mechanic	$60.46	7Z	4S	9A	View
Power Equipment Operators-Underground Sewer & Water	H.d. Welder	$60.46	7Z	4S	9A	View
Power Equipment Operators-Underground Sewer & Water	Heavy Equipment Robotics Operator	$60.46	7Z	4S	9A	View
Power Equipment Operators-Underground Sewer & Water	Helicopter Pilot	$62.33	7Z	4S	9A	View
Power Equipment Operators-Underground Sewer & Water	Helper, Mechanic Or Welder, H.D	$58.36	7Z	4S	9A	View
Power Equipment Operators-Underground Sewer & Water	Hoe Ram	$59.82	7Z	4S	9A	View
Power Equipment Operators-Underground Sewer & Water	Hoist (2 Or More Drums Or Tower Hoist)	$59.63	7Z	4S	9A	View
Power Equipment Operators-Underground Sewer & Water	Hoist, Single Drum	$58.73	7Z	4S	9A	View
Power Equipment Operators-Underground Sewer & Water	Hydraulic Platform Trailers (goldhofer, Shaurerly And Similar)	$60.46	7Z	4S	9A	View

Power Equipment Operators-Underground Sewer & Water	Hydro-seeder, Mulcher, Nozzleman	$58.36	7Z	4S	9A	View
Power Equipment Operators-Underground Sewer & Water	Lime Batch Tank Operator (recycle Train)	$60.14	7Z	4S	9A	View
Power Equipment Operators-Underground Sewer & Water	Lime Brain Operator (recycle Train)	$60.14	7Z	4S	9A	View
Power Equipment Operators-Underground Sewer & Water	Loader (360 Degrees Revolving Koehring Scooper Or Similar)	$60.46	7Z	4S	9A	View
Power Equipment Operators-Underground Sewer & Water	Loader Operator (front-end & Overhead, 4 Yds. Incl. 8 Yds.)	$60.14	7Z	4S	9A	View
Power Equipment Operators-Underground Sewer & Water	Loaders (bucket Elevators And Conveyors)	$58.73	7Z	4S	9A	View
Power Equipment Operators-Underground Sewer & Water	Loaders (overhead & Front-end, Over 8 Yds.)	$60.46	7Z	4S	9A	View
Power Equipment Operators-Underground Sewer & Water	Loaders (overhead & Front-end, Under 4 Yds.. R/t)	$59.63	7Z	4S	9A	View
Power Equipment Operators-Underground Sewer & Water	Locomotive Engineer	$59.44	7Z	4S	9A	View
Power Equipment Operators-Underground Sewer & Water	Longitudinal Float	$58.73	7Z	4S	9A	View
Power Equipment Operators-Underground Sewer & Water	Master Environmental Maintenance Technician	$60.46	7Z	4S	9A	View

Power Equipment Operators-Underground Sewer & Water	Mixer (portable - Concrete)	$58.73	7Z	4S	9A	View
Power Equipment Operators-Underground Sewer & Water	Mixermobile	$59.44	7Z	4S	9A	View
Power Equipment Operators-Underground Sewer & Water	Mobile Crusher Operator (recycle Train)	$60.14	7Z	4S	9A	View
Power Equipment Operators-Underground Sewer & Water	Mucking Machine	$59.44	7Z	4S	9A	View
Power Equipment Operators-Underground Sewer & Water	Multiple Dozer Units With Single Blade	$60.14	7Z	4S	9A	View
Power Equipment Operators-Underground Sewer & Water	Pavement Breaker, Hydra-hammer & Similar	$58.73	7Z	4S	9A	View
Power Equipment Operators-Underground Sewer & Water	Paving (dual Drum)	$59.82	7Z	4S	9A	View
Power Equipment Operators-Underground Sewer & Water	Paving Machine (asphalt And Concrete)	$60.14	7Z	4S	9A	View
Power Equipment Operators-Underground Sewer & Water	Piledriving Engineers	$59.82	7Z	4S	9A	View
Power Equipment Operators-Underground Sewer & Water	Plant Oiler	$58.36	7Z	4S	9A	View
Power Equipment Operators-Underground Sewer & Water	Posthole Auger Or Punch	$59.44	7Z	4S	9A	View
Power Equipment Operators-Underground Sewer & Water	Power Broom	$58.73	7Z	4S	9A	View
Power Equipment Operators-Underground Sewer & Water	Pump (grout Or Jet)	$59.44	7Z	4S	9A	View

Power Equipment Operators-Underground Sewer & Water	Pumpman	$58.36	7Z	4S	9A	View
Power Equipment Operators-Underground Sewer & Water	Quad-track Or Similar Equipment	$60.14	7Z	4S	9A	View
Power Equipment Operators-Underground Sewer & Water	Railroad Ballast Regulation Operator (self-propelled)	$58.73	7Z	4S	9A	View
Power Equipment Operators-Underground Sewer & Water	Railroad Power Tamper Operator (self-propelled)	$58.73	7Z	4S	9A	View
Power Equipment Operators-Underground Sewer & Water	Railroad Tamper Jack Operator (self-propelled)	$58.73	7Z	4S	9A	View
Power Equipment Operators-Underground Sewer & Water	Railroad Track Liner Operator (self-propelled)	$59.82	7Z	4S	9A	View
Power Equipment Operators-Underground Sewer & Water	Refrigeration Plant Engineer (1000 Tons & Over)	$59.82	7Z	4S	9A	View
Power Equipment Operators-Underground Sewer & Water	Refrigeration Plant Engineer (under 1000 Ton)	$59.63	7Z	4S	9A	View
Power Equipment Operators-Underground Sewer & Water	Rollerman (finishing Asphalt Pavement)	$60.14	7Z	4S	9A	View
Power Equipment Operators-Underground Sewer & Water	Rollers, All Types On Subgrade, Including Seal And Chip Coating (farm Type, Case, John Deere And Similar,or Compacting	$58.36	7Z	4S	9A	View

	Vibrator), Except When Pulled B					
Power Equipment Operators-Underground Sewer & Water	Roto Mill (pavement Grinder)	$60.14	7Z	4S	9A	View
Power Equipment Operators-Underground Sewer & Water	Rotomill Groundsman	$59.63	7Z	4S	9A	View
Power Equipment Operators-Underground Sewer & Water	Rubber-tired Scrapers (multiple Engine With Three Or More Scrapers)	$60.46	7Z	4S	9A	View
Power Equipment Operators-Underground Sewer & Water	Rubber-tired Skidders (r/t With Or Without Attachments)	$59.63	7Z	4S	9A	View
Power Equipment Operators-Underground Sewer & Water	Scrapers, All, Rubber-tired	$60.14	7Z	4S	9A	View
Power Equipment Operators-Underground Sewer & Water	Screed Operator	$60.14	7Z	4S	9A	View
Power Equipment Operators-Underground Sewer & Water	Shovels (3 Yds. & Over)	$60.46	7Z	4S	9A	View
Power Equipment Operators-Underground Sewer & Water	Shovels (under 3 Yds.)	$60.14	7Z	4S	9A	View
Power Equipment Operators-Underground Sewer & Water	Signalman (whirleys, Highline, Hammerheads Or Similar)	$59.82	7Z	4S	9A	View
Power Equipment Operators-Underground Sewer & Water	Soil Stabilizer (p & H Or Similar)	$59.44	7Z	4S	9A	View
Power Equipment Operators-Underground Sewer & Water	Spray Curing Machine (concrete)	$58.73	7Z	4S	9A	View

Power Equipment Operators-Underground Sewer & Water	Spreader Box (self-propelled)	$58.73	7Z	4S	9A	View
Power Equipment Operators-Underground Sewer & Water	Spreader Machine	$59.44	7Z	4S	9A	View
Power Equipment Operators-Underground Sewer & Water	Steam Cleaner	$58.36	7Z	4S	9A	View
Power Equipment Operators-Underground Sewer & Water	Straddle Buggy (ross & Similar On Construction Job Only)	$58.73	7Z	4S	9A	View
Power Equipment Operators-Underground Sewer & Water	Surface Heater & Planer Machine	$59.63	7Z	4S	9A	View
Power Equipment Operators-Underground Sewer & Water	Tractor (farm Type R/t With Attachments, Except Backhoe)	$58.73	7Z	4S	9A	View
Power Equipment Operators-Underground Sewer & Water	Traverse Finish Machine	$59.44	7Z	4S	9A	View
Power Equipment Operators-Underground Sewer & Water	Trenching Machines (7 Ft. Depth & Over)	$60.14	7Z	4S	9A	View
Power Equipment Operators-Underground Sewer & Water	Trenching Machines (under 7 Ft. Depth Capacity)	$59.63	7Z	4S	9A	View
Power Equipment Operators-Underground Sewer & Water	Tug Boat Operator	$60.14	7Z	4S	9A	View
Power Equipment Operators-Underground Sewer & Water	Tugger Operator	$58.73	7Z	4S	9A	View
Power Equipment Operators-Underground Sewer & Water	Turnhead (with Re-screening)	$59.63	7Z	4S	9A	View

Power Equipment Operators-Underground Sewer & Water	Turnhead Operator	$59.44	**7Z**	**4S**	**9A**	**View**
Power Equipment Operators-Underground Sewer & Water	Ultra High Pressure Wateriet Cutting Tool System Operator, (30,000 Psi)	$60.46	**7Z**	**4S**	**9A**	**View**
Power Equipment Operators-Underground Sewer & Water	Vactor Guzzler, Super Sucker	$60.14	**7Z**	**4S**	**9A**	**View**
Power Equipment Operators-Underground Sewer & Water	Vacuum Blasting Machine Operator	$60.46	**7Z**	**4S**	**9A**	**View**
Power Equipment Operators-Underground Sewer & Water	Vacuum Drill (reverse Circulation Drill Under 8 Inch Bit)	$59.63	**7Z**	**4S**	**9A**	**View**
Power Equipment Operators-Underground Sewer & Water	Welding Machine	$58.36	**7Z**	**4S**	**9A**	**View**
Power Equipment Operators-Underground Sewer & Water	Whirleys & Hammerheads, All	$60.46	**7Z**	**4S**	**9A**	**View**
Power Line Clearance Tree Trimmers	Journey Level In Charge	$64.20	**5A**	**4A**		**View**
Power Line Clearance Tree Trimmers	Spray Person	$60.74	**5A**	**4A**		**View**
Power Line Clearance Tree Trimmers	Tree Equipment Operator	$64.20	**5A**	**4A**		**View**
Power Line Clearance Tree Trimmers	Tree Trimmer	$57.29	**5A**	**4A**		**View**
Power Line Clearance Tree Trimmers	Tree Trimmer Groundperson	$43.05	**5A**	**4A**		**View**
Refrigeration & Air Conditioning Mechanics	Journey Level	$72.57	**7E**	**1J**		**View**

Residential Brick Mason	Journey Level	$22.50		1	View
Residential Carpenters	Journey Level	$31.62		1	View
Residential Cement Masons	Journey Level	$30.58		1	View
Residential Drywall Applicators	Journey Level	$26.29		1	View
Residential Drywall Tapers	Journey Level	$53.68	7E	1P	View
Residential Electricians	Journey Level	$40.04	5I	1E	View
Residential Glaziers	Journey Level	$30.82		1	View
Residential Insulation Applicators	Journey Level	$32.31		1	View
Residential Laborers	Journey Level	$21.15		1	View
Residential Marble Setters	Journey Level	$59.64	5A	1M	View
Residential Painters	Journey Level	$30.66		1	View
Residential Plumbers & Pipefitters	Journey Level	$32.45		1	View
Residential Refrigeration & Air Conditioning Mechanics	Journey Level	$64.77		1	View
Residential Sheet Metal Workers	Journey Level (Field or Shop)	$71.88	5I	1B	View
Residential Soft Floor Layers	Journey Level	$17.05		1	View
Residential Sprinkler Fitters (Fire Protection)	Journey Level	$35.04		1	View
Residential Stone Masons	Journey Level	$59.64	5A	1M	View

Residential Terrazzo Workers	Journey Level	$20.61		1	View
Residential Terrazzo/Tile Finishers	Journey Level	$25.58		1	View
Residential Tile Setters	Journey Level	$20.61		1	View
Roofers	Journey Level	$48.54	5I	1R	View
Roofers	Using Irritable Bituminous Materials	$50.54	5I	1R	View
Sheet Metal Workers	Journey Level (Field or Shop)	$74.38	6Z	1B	View
Sign Makers & Installers (Electrical)	Journey Level	$16.66		1	View
Sign Makers & Installers (Non-Electrical)	Sign Installer	$19.12		1	View
Sign Makers & Installers (Non-Electrical)	Sign Maker	$16.66		1	View
Soft Floor Layers	Journey Level	$59.52	7C	3J	View
Solar Controls For Windows	Journey Level	$16.66		1	View
Sprinkler Fitters (Fire Protection)	Journey Level	$69.91	7J	1R	View
Stage Rigging Mechanics (Non Structural)	Journey Level	$16.66		1	View
Stone Masons	Journey Level	$59.64	5A	1M	View
Street And Parking Lot Sweeper Workers	Journey Level	$20.47		1	View
Surveyors	All Classifications	$19.84	0	1	View

Telecommunication Technicians	Journey Level	$56.78	**5I**	**1B**	**View**
Telephone Line Construction - Outside	Cable Splicer	$41.35	**5A**	**2B**	**View**
Telephone Line Construction - Outside	Hole Digger/Ground Person	$27.31	**5A**	**2B**	**View**
Telephone Line Construction - Outside	Telephone Equipment Operator (Light)	$34.53	**5A**	**2B**	**View**
Telephone Line Construction - Outside	Telephone Lineperson	$39.07	**5A**	**2B**	**View**
Terrazzo Workers	Journey Level	$43.81	**5A**	**1M**	**View**
Tile Setters	Journey Level	$43.81	**5A**	**1M**	**View**
Tile, Marble & Terrazzo Finishers	Journey Level	$35.93	**5A**	**1M**	**View**
Traffic Control Stripers	All cleanup required in connection with traffic control stripers work (Group 1)	$92.44	**15L**	**1K**	**View**
Traffic Control Stripers	Handling, painting and installing of all car stops, stop signs and any other type sign (Group 2)	$55.54	**15L**	**1K**	**View**
Traffic Control Stripers	Installation of guard rail and posts and similar protective devices (Group 2)	$55.54	**15L**	**1K**	**View**
Traffic Control Stripers	Installation of parking gates, ticket spitters	$55.54	**15L**	**1K**	**View**

	and other mechanical and automatic control devices (Group 2)				
Traffic Control Stripers	Installation of plastic metal or composition button, or lines used instead of paint (Group 1)	$92.44	**15L**	**1K**	**View**
Traffic Control Stripers	Line removal; chemical sand and hydro-blast, paint and button (Group 1)	$92.44	**15L**	**1K**	**View**
Traffic Control Stripers	Manufacturing and installation of all car stops and control devices and similar traffic regulators (Group 2)	$55.54	**15L**	**1K**	**View**
Traffic Control Stripers	Manufacturing, painting, stenciling, servicing, repairing, placing and removal of traffic safety and control devices/barricades (Group 2)	$55.54	**15L**	**1K**	**View**
Traffic Control Stripers	Painting and installing lines, arrows, bumpers, curbs, etc., on parking lots, air fields, highways, game courts (Group 1)	$92.44	**15L**	**1K**	**View**

Traffic Control Stripers	Preparation and maintenance of all surfaces (Group 1)	$92.44	**15L**	**1K**		**View**
Traffic Control Stripers	Seal coating, slurry coating and other surface protection (Group 2)	$55.54	**15L**	**1K**		**View**
Truck Drivers	Asphalt Mix Over 20 Yards	$59.45	**5D**	**1V**	**8M**	**View**
Truck Drivers	Asphalt Mix To 20 Yards	$59.25	**5D**	**1V**	**8M**	**View**
Truck Drivers	Dump Truck	$59.25	**5D**	**1V**	**8M**	**View**
Truck Drivers	Dump Truck & Trailer	$59.45	**5D**	**1V**	**8M**	**View**
Truck Drivers	Other Trucks	$59.14	**5D**	**1V**	**8M**	**View**
Truck Drivers - Ready Mix	Transit Mixers 20 yards and under	$59.45	**5D**	**1V**	**8M**	**View**
Truck Drivers - Ready Mix	Transit Mixers over 20 yards	$59.79	**5D**	**1V**	**8M**	**View**
Well Drillers & Irrigation Pump Installers	Irrigation Pump Installer	$21.00		**1**		**View**
Well Drillers & Irrigation Pump Installers	Oiler	$16.66		**1**		**View**
Well Drillers & Irrigation Pump Installers	Well Driller	$18.00		**1**		**View**

Whitman County

Trade^	Job Classification	Wage	Holiday	Overtime	Note	Risk Class

Asbestos Abatement Workers	Journey Level	$51.50	**7B**	**1M**	**8Z**	**View**
Boilermakers	Journey Level	$77.39	**5N**	**1C**		**View**
Brick Mason	Journey Level	$59.64	**5A**	**1M**		**View**
Building Service Employees	Janitor	$16.66		**1**		**View**
Building Service Employees	Shampooer	$16.66		**1**		**View**
Building Service Employees	Waxer	$16.66		**1**		**View**
Building Service Employees	Window Cleaner	$16.66		**1**		**View**
Cabinet Makers (In Shop)	Journey Level	$16.66		**1**		**View**
Carpenters	Acoustical Worker	$58.42	**15J**	**11U**	**9L**	**View**
Carpenters	Bridge, Dock & Wharf Carpenter	$62.42	**15J**	**11U**	**9L**	**View**
Carpenters	Floor Layer & Floor Finisher	$58.42	**15J**	**11U**	**9L**	**View**
Carpenters	Form Builder	$58.42	**15J**	**11U**	**9L**	**View**
Carpenters	General Carpenter	$58.42	**15J**	**11U**	**9L**	**View**
Carpenters	Heavy Construction Carpenter	$62.42	**15J**	**11U**	**9L**	**View**
Carpenters	Scaffold/Shoring Erecting & Dismantling	$62.42	**7E**	**4X**	**8N**	**View**
Cement Masons	Journey Level	$56.59	**7B**	**1N**		**View**
Divers & Tenders	Assistant Tender	$64.97	**15J**	**11U**	**9I**	**View**

Divers & Tenders	Bell/Vehicle or Submersible Operator Not Under Pressure	$69.29	**15J**	**11U**	**9I**	**View**
Divers & Tenders	Dive Master	$81.34	**15J**	**11U**	**9I**	**View**
Divers & Tenders	Dive Supervisor	$123.52	**15J**	**11U**	**9I**	**View**
Divers & Tenders	Diver (Diving)	$122.02	**15J**	**11U**	**9I**	**View**
Divers & Tenders	Diver Tender	$68.29	**15J**	**11U**	**9I**	**View**
Divers & Tenders	Manifold Operator	$68.29	**15J**	**11U**	**9I**	**View**
Divers & Tenders	Manifold Operator Mixed Gas	$72.29	**15J**	**11U**	**9I**	**View**
Divers & Tenders	ROV Operator	$68.29	**15J**	**11U**	**9I**	**View**
Divers & Tenders	ROV Tender/Technician	$64.97	**15J**	**11U**	**9I**	**View**
Divers & Tenders	Stand-By Diver	$69.29	**15J**	**11U**	**9I**	**View**
Dredge Workers	Assistant Engineer	$85.37	**5D**	**3F**		**View**
Dredge Workers	Assistant Mate (Deckhand)	$84.71	**5D**	**3F**		**View**
Dredge Workers	Boatmen	$85.37	**5D**	**3F**		**View**
Dredge Workers	Engineer Welder	$87.02	**5D**	**3F**		**View**
Dredge Workers	Leverman, Hydraulic	$88.77	**5D**	**3F**		**View**
Dredge Workers	Mates	$85.37	**5D**	**3F**		**View**
Dredge Workers	Oiler	$84.71	**5D**	**3F**		**View**

Drywall Applicator	Journey Level	$59.19	**150**	**11S**		**View**
Drywall Tapers	Journey Level	$59.19	**150**	**11S**		**View**
Electrical Fixture Maintenance Workers	Journey Level	$16.66		**1**		**View**
Electricians - Inside	Journeyman	$66.10	**7G**	**1E**		**View**
Electricians - Motor Shop	Craftsman	$16.66		**1**		**View**
Electricians - Motor Shop	Journey Level	$16.66		**1**		**View**
Electricians - Powerline Construction	Cable Splicer	$102.42	**5A**	**4D**		**View**
Electricians - Powerline Construction	Certified Line Welder	$93.99	**5A**	**4D**		**View**
Electricians - Powerline Construction	Groundperson	$59.30	**5A**	**4D**		**View**
Electricians - Powerline Construction	Heavy Line Equipment Operator	$93.99	**5A**	**4D**		**View**
Electricians - Powerline Construction	Journey Level Lineperson	$93.99	**5A**	**4D**		**View**
Electricians - Powerline Construction	Line Equipment Operator	$80.96	**5A**	**4D**		**View**
Electricians - Powerline Construction	Meter Installer	$59.30	**5A**	**4D**	**8W**	**View**
Electricians - Powerline Construction	Pole Sprayer	$93.99	**5A**	**4D**		**View**
Electricians - Powerline Construction	Powderperson	$69.84	**5A**	**4D**		**View**

Electronic Technicians	Journey Level	$56.78	**5I**	**1B**		**View**
Elevator Constructors	Mechanic	$115.14	**7D**	**4A**		**View**
Elevator Constructors	Mechanic In Charge	$124.53	**7D**	**4A**		**View**
Fabricated Precast Concrete Products	Journey Level	$16.66		**1**		**View**
Fabricated Precast Concrete Products	Journey Level - In-Factory Work Only	$16.66		**1**		**View**
Fence Erectors	Fence Erector	$51.50	**7B**	**1M**	**8Z**	**View**
Flaggers	Journey Level	$48.55	**7B**	**1M**	**8Z**	**View**
Glaziers	Journey Level	$46.70	**7L**	**4L**		**View**
Heat & Frost Insulators And Asbestos Workers	Journey Level	$65.80	**5K**	**1U**		**View**
Heating Equipment Mechanics	Journey Level	$74.38	**6Z**	**1B**		**View**
Hod Carriers & Mason Tenders	Journey Level	$53.84	**7B**	**1M**	**8Z**	**View**
Industrial Power Vacuum Cleaner	Journey Level	$16.66		**1**		**View**
Inland Boatmen	Journey Level	$16.66		**1**		**View**
Inspection/Cleaning/Sealing Of Sewer & Water Systems By Remote Control	Cleaner Operator, Foamer Operator	$16.66		**1**		**View**
Inspection/Cleaning/Sealing Of Sewer & Water Systems By Remote Control	Grout Truck Operator	$16.66		**1**		**View**

Inspection/Cleaning/Sealing Of Sewer & Water Systems By Remote Control	Head Operator	$16.66		1		View
Inspection/Cleaning/Sealing Of Sewer & Water Systems By Remote Control	Technician	$16.66		1		View
Inspection/Cleaning/Sealing Of Sewer & Water Systems By Remote Control	Tv Truck Operator	$16.66		1		View
Insulation Applicators	Journey Level	$58.42	15J	11U	9L	View
Ironworkers	Journeyman	$74.44	15K	11N		View
Laborers	Air And Hydraulic Track Drill	$52.14	7B	1M	8Z	View
Laborers	Asphalt Raker	$52.14	7B	1M	8Z	View
Laborers	Asphalt Roller, Walking	$51.82	7B	1M	8Z	View
Laborers	Brick Pavers	$51.50	7B	1M	8Z	View
Laborers	Brush Hog Feeder	$51.50	7B	1M	8Z	View
Laborers	Brush Machine	$52.14	7B	1M	8Z	View
Laborers	Caisson Worker, Free AIr	$52.14	7B	1M	8Z	View
Laborers	Carpenter Tender	$51.50	7B	1M	8Z	View
Laborers	Cement Finisher Tender	$51.82	7B	1M	8Z	View
Laborers	Cement Handler	$51.50	7B	1M	8Z	View

Laborers	Chain Saw Operator & Faller	$52.14	**7B**	**1M**	**8Z**	**View**
Laborers	Clean-up Laborer	$51.50	**7B**	**1M**	**8Z**	**View**
Laborers	Compaction Equipment	$51.82	**7B**	**1M**	**8Z**	**View**
Laborers	Concrete Crewman	$51.50	**7B**	**1M**	**8Z**	**View**
Laborers	Concrete Saw, Walking	$51.82	**7B**	**1M**	**8Z**	**View**
Laborers	Concrete Signalman	$51.50	**7B**	**1M**	**8Z**	**View**
Laborers	Concrete Stack	$52.14	**7B**	**1M**	**8Z**	**View**
Laborers	Confined Space Attendant	$51.50	**7B**	**1M**	**8Z**	**View**
Laborers	Construction Specialist	$52.34	**7B**	**1M**	**8Z**	**View**
Laborers	Crusher Feeder	$51.50	**7B**	**1M**	**8Z**	**View**
Laborers	Demolition	$51.50	**7B**	**1M**	**8Z**	**View**
Laborers	Demolition Torch	$51.82	**7B**	**1M**	**8Z**	**View**
Laborers	Dope Pot Fireman, Non-mechanical	$51.82	**7B**	**1M**	**8Z**	**View**
Laborers	Driller Helper (when Required To Move & Position Machine)	$51.82	**7B**	**1M**	**8Z**	**View**
Laborers	Drills With Dual Masts	$52.46	**7B**	**1M**	**8Z**	**View**
Laborers	Dry Stack Walls	$51.50	**7B**	**1M**	**8Z**	**View**

Laborers	Dumpman	$51.50	**7B**	**1M**	**8Z**	**View**
Laborers	Erosion Control Laborer	$51.50	**7B**	**1M**	**8Z**	**View**
Laborers	Firewatch	$51.50	**7B**	**1M**	**8Z**	**View**
Laborers	Form Cleaning Machine Feeder, Stacker	$51.50	**7B**	**1M**	**8Z**	**View**
Laborers	Form Setter, Paving	$51.82	**7B**	**1M**	**8Z**	**View**
Laborers	General Laborer	$51.50	**7B**	**1M**	**8Z**	**View**
Laborers	Grade Checker	$54.43	**7B**	**1M**	**8Z**	**View**
Laborers	Grout Machine Header Tender	$51.50	**7B**	**1M**	**8Z**	**View**
Laborers	Guard Rail	$51.50	**7B**	**1M**	**8Z**	**View**
Laborers	Gunite	$52.14	**7B**	**1M**	**8Z**	**View**
Laborers	Hazardous Waste Worker (level A)	$52.46	**7B**	**1M**	**8Z**	**View**
Laborers	Hazardous Waste Worker (level B)	$52.14	**7B**	**1M**	**8Z**	**View**
Laborers	Hazardous Waste Worker (level C)	$51.82	**7B**	**1M**	**8Z**	**View**
Laborers	Hazardous Waste Worker (level D)	$51.50	**7B**	**1M**	**8Z**	**View**
Laborers	Hdpe Or Similar Liner Installer	$51.50	**7B**	**1M**	**8Z**	**View**
Laborers	High Scaler	$52.14	**7B**	**1M**	**8Z**	**View**

Laborers	Industrial Technician	$73.60	**7B**	**1M**	**8Z**	**View**
Laborers	Jackhammer Operator Miner, Class "b"	$51.82	**7B**	**1M**	**8Z**	**View**
Laborers	Laser Beam Operator	$52.14	**7B**	**1M**	**8Z**	**View**
Laborers	Miner, Class "a"	$51.50	**7B**	**1M**	**8Z**	**View**
Laborers	Miner, Class "c"	$52.14	**7B**	**1M**	**8Z**	**View**
Laborers	Miner, Class "d"	$52.46	**7B**	**1M**	**8Z**	**View**
Laborers	Monitor Operator, Air Track Or Similar Mounting	$52.14	**7B**	**1M**	**8Z**	**View**
Laborers	Mortar Mixer	$52.14	**7B**	**1M**	**8Z**	**View**
Laborers	Nipper	$51.50	**7B**	**1M**	**8Z**	**View**
Laborers	Nozzleman	$52.14	**7B**	**1M**	**8Z**	**View**
Laborers	Nozzleman, Water (to Include Fire Hose), Air Or Steam	$51.82	**7B**	**1M**	**8Z**	**View**
Laborers	Pavement Breaker, 90 Lbs. & Over	$52.14	**7B**	**1M**	**8Z**	**View**
Laborers	Pavement Breaker, Under 90 Lbs.	$51.82	**7B**	**1M**	**8Z**	**View**
Laborers	Pilot Car	$48.55	**7B**	**1M**	**8Z**	**View**
Laborers	Pipelayer	$52.14	**7B**	**1M**	**8Z**	**View**

Laborers	Pipelayer, Corrugated Metal Culvert And Multi-Plate	$52.14	**7B**	**1M**	**8Z**	**View**
Laborers	Pipewrapper	$52.14	**7B**	**1M**	**8Z**	**View**
Laborers	Plasterer Tenders	$52.14	**7B**	**1M**	**8Z**	**View**
Laborers	Pot Tender	$51.82	**7B**	**1M**	**8Z**	**View**
Laborers	Powderman	$54.05	**7B**	**1M**	**8Z**	**View**
Laborers	Powederman Helper	$51.82	**7B**	**1M**	**8Z**	**View**
Laborers	Power Buggy Operator	$51.82	**7B**	**1M**	**8Z**	**View**
Laborers	Power Tool Operator, Gas, Electric, Pneumatic	$51.82	**7B**	**1M**	**8Z**	**View**
Laborers	Rad-Con Technician	$73.60	**7B**	**1M**	**8Z**	**View**
Laborers	Railroad Equipment, Power Driven, Except Dual Mobile	$51.82	**7B**	**1M**	**8Z**	**View**
Laborers	Railroad Power Spiker Or Puller, Dual Mobile	$51.82	**7B**	**1M**	**8Z**	**View**
Laborers	Remote Equipment Operator	$52.46	**7B**	**1M**	**8Z**	**View**
Laborers	Remote Equipment Operator (i.e Compaction And Demolition)	$51.82	**7B**	**1M**	**8Z**	**View**
Laborers	Rigger/signal Person	$51.82	**7B**	**1M**	**8Z**	**View**

Laborers	Riprap Person	$51.50	**7B**	**1M**	**8Z**	**View**
Laborers	Rodder & Spreader	$51.82	**7B**	**1M**	**8Z**	**View**
Laborers	Sand Hogs Under Compressed Air Conditions	$304.86	**7B**	**1M**	**8Z**	**View**
Laborers	Sandblast Tailhoseman	$51.50	**7B**	**1M**	**8Z**	**View**
Laborers	Scaffold Erector, Wood Or Steel	$51.50	**7B**	**1M**	**8Z**	**View**
Laborers	Scaleman	$48.55	**7B**	**1M**	**8Z**	**View**
Laborers	Stake Jumper	$51.50	**7B**	**1M**	**8Z**	**View**
Laborers	Structural Mover	$51.50	**7B**	**1M**	**8Z**	**View**
Laborers	Tailhoseman (water Nozzle)	$51.50	**7B**	**1M**	**8Z**	**View**
Laborers	Timber Bucker & Faller (by Hand)	$51.50	**7B**	**1M**	**8Z**	**View**
Laborers	Track Laborer (rr)	$51.50	**7B**	**1M**	**8Z**	**View**
Laborers	Traffic Control Laborer	$48.55	**7B**	**1M**	**8Z**	**View**
Laborers	Traffic Control Supervisor	$51.50	**7B**	**1M**	**8Z**	**View**
Laborers	Trencher, Shawnee	$51.82	**7B**	**1M**	**8Z**	**View**
Laborers	Trenchless Technology Technician	$52.14	**7B**	**1M**	**8Z**	**View**

Laborers	Truck Loader	$51.50	**7B**	**1M**	**8Z**	**View**
Laborers	Truck Mounted Attenuator	$48.55	**7B**	**1M**	**8Z**	**View**
Laborers	Tugger Operator	$51.82	**7B**	**1M**	**8Z**	**View**
Laborers	Vibrators, All	$52.14	**7B**	**1M**	**8Z**	**View**
Laborers	Wagon Drills	$51.82	**7B**	**1M**	**8Z**	**View**
Laborers	Water Pipe Liner	$51.82	**7B**	**1M**	**8Z**	**View**
Laborers	Welder, Electrical, Manual Or Automatic (hdpe Or Similar Pipe And Liner)	$52.46	**7B**	**1M**	**8Z**	**View**
Laborers	Well-point Person	$51.50	**7B**	**1M**	**8Z**	**View**
Laborers	Wheelbarrow, Power Driven	$51.82	**7B**	**1M**	**8Z**	**View**
Laborers	Window Washer, Cleaner	$48.55	**7B**	**1M**	**8Z**	**View**
Laborers - Underground Sewer & Water	General Laborer & Topman	$52.14	**7B**	**1M**	**8Z**	**View**
Laborers - Underground Sewer & Water	Pipe Layer	$52.14	**7B**	**1M**	**8Z**	**View**
Landscape Construction	Landscape Laborer	$48.55	**7B**	**1M**	**8Z**	**View**
Landscape Construction	Landscape Operator	$59.63	**7Z**	**4S**	**9A**	**View**
Landscape Maintenance	Groundskeeper	$16.66		**1**		**View**
Lathers	Journey Level	$59.19	**150**	**11S**		**View**

Marble Setters	Journey Level	$59.64	5A	1M		View
Metal Fabrication (In Shop)	Fitter	$16.66		1		View
Metal Fabrication (In Shop)	Laborer	$16.66		1		View
Metal Fabrication (In Shop)	Machine Operator	$16.66		1		View
Metal Fabrication (In Shop)	Painter	$16.66		1		View
Metal Fabrication (In Shop)	Welder	$16.66		1		View
Millwright	Journey Level	$79.33	5A	1B		View
Modular Buildings	Journey Level	$16.66		1		View
Painters	Commercial Painter	$47.26	6Z	1W		View
Painters	Industrial Painter	$54.58	6Z	1W	9D	View
Pile Driver	Journey Level	$64.02	15J	11U	9L	View
Plasterers	Journey Level	$56.27	7K	1N		View
Playground & Park Equipment Installers	Journey Level	$16.66		1		View
Plumbers & Pipefitters	Journey Level	$97.01	6Z	1Q		View
Power Equipment Operators	A-frame Truck (2 Or More Drums)	$59.44	7Z	4S	9A	View
Power Equipment Operators	A-frame Truck (single Drum)	$58.73	7Z	4S	9A	View
Power Equipment Operators	All Tower Cranes	$64.09	7Z	4S	9A	View
Power Equipment Operators	Asphalt Plant Operator	$60.14	7Z	4S	9A	View

Power Equipment Operators	Assistant Plant Operator, Fireman Or Pugmixer (asphalt)	$58.73	**7Z**	**4S**	**9A**	**View**
Power Equipment Operators	Assistant Refrigeration Plant & Chiller Operator (over 1000 Ton)	$59.44	**7Z**	**4S**	**9A**	**View**
Power Equipment Operators	Assistant Refrigeration Plant (under 1000 Ton)	$58.73	**7Z**	**4S**	**9A**	**View**
Power Equipment Operators	Automatic Subgrader (ditches & Trimmers)	$60.14	**7Z**	**4S**	**9A**	**View**
Power Equipment Operators	Backfillers (cleveland & Similar)	$59.44	**7Z**	**4S**	**9A**	**View**
Power Equipment Operators	Backhoe & Hoe Ram (under 3/4 Yd.)	$59.82	**7Z**	**4S**	**9A**	**View**
Power Equipment Operators	Backhoe (45,000 Gw & Under)	$59.82	**7Z**	**4S**	**9A**	**View**
Power Equipment Operators	Backhoe (45,000 Gw To 110,000 Gw)	$60.14	**7Z**	**4S**	**9A**	**View**
Power Equipment Operators	Backhoe (over 110,000 Gw)	$60.46	**7Z**	**4S**	**9A**	**View**
Power Equipment Operators	Backhoes & Hoe Ram (3 Yds & Over)	$60.46	**7Z**	**4S**	**9A**	**View**
Power Equipment Operators	Backhoes & Hoe Ram (3/4 Yd. To 3 Yd.)	$60.14	**7Z**	**4S**	**9A**	**View**
Power Equipment Operators	Bagley Or Stationary Scraper	$58.73	**7Z**	**4S**	**9A**	**View**

Power Equipment Operators	Batch & Wet Mix Operator (multiple Units, 2 & Incl. 4)	$60.14	7Z	4S	9A	View
Power Equipment Operators	Batch Plant & Wet Mix Operator, Single Unit (concrete)	$59.44	7Z	4S	9A	View
Power Equipment Operators	Batch Plant (over 4 Units)	$60.14	7Z	4S	9A	View
Power Equipment Operators	Belt Finishing Machine	$58.73	7Z	4S	9A	View
Power Equipment Operators	Belt Loader (kocal Or Similar)	$59.44	7Z	4S	9A	View
Power Equipment Operators	Belt-crete Conveyors With Power Pack Or Similar	$59.44	7Z	4S	9A	View
Power Equipment Operators	Bending Machine	$59.44	7Z	4S	9A	View
Power Equipment Operators	Bit Grinders	$58.36	7Z	4S	9A	View
Power Equipment Operators	Blade (finish & Bluetop), Automatic, Cmi, Abc, Finish Athey & Huber & Similar When Used As Automatic	$60.46	7Z	4S	9A	View
Power Equipment Operators	Blade Operator (motor Patrol & Attachments)	$60.14	7Z	4S	9A	View
Power Equipment Operators	Blower Operator (cement)	$58.73	7Z	4S	9A	View

Power Equipment Operators	Boat Operator	$58.36	7Z	4S	9A	View
Power Equipment Operators	Bob Cat (skid Steer)	$59.44	7Z	4S	9A	View
Power Equipment Operators	Bolt Threading Machine	$58.36	7Z	4S	9A	View
Power Equipment Operators	Boom Cats (side)	$60.14	7Z	4S	9A	View
Power Equipment Operators	Boring Machine (earth)	$59.44	7Z	4S	9A	View
Power Equipment Operators	Boring Machine (Rock Under 8 inch Bit - Quarry Master, Joy Or Similar)	$59.44	7Z	4S	9A	View
Power Equipment Operators	Bump Cutter (wayne, Saginau Or Similar)	$59.44	7Z	4S	9A	View
Power Equipment Operators	Cableway Controller (dispatcher)	$60.14	7Z	4S	9A	View
Power Equipment Operators	Cableway Operators	$60.46	7Z	4S	9A	View
Power Equipment Operators	Canal Lining Machine (concrete)	$59.44	7Z	4S	9A	View
Power Equipment Operators	Carrydeck & Boom Truck (under 25 Tons)	$59.82	7Z	4S	9A	View
Power Equipment Operators	Cement Hog	$58.73	7Z	4S	9A	View
Power Equipment Operators	Chipper (Without Crane)	$59.44	7Z	4S	9A	View
Power Equipment Operators	Clamshell, Dragline	$62.33	7Z	4S	9A	View
Power Equipment Operators	Cleaning & Doping Machine (Pipeline)	$59.44	7Z	4S	9A	View

Power Equipment Operators	Compactor (self-propelled With Blade)	$60.14	7Z	4S	9A	View
Power Equipment Operators	Compressor (2000 Cfm Or Over, 2 Or More, Gas Diesel Or Electric Power)	$58.73	7Z	4S	9A	View
Power Equipment Operators	Compressors (under 2000 Cfm, Gas, Diesel Or Electric Power)	$58.36	7Z	4S	9A	View
Power Equipment Operators	Concrete Cleaning / Decontamination Machine Operator	$60.46	7Z	4S	9A	View
Power Equipment Operators	Concrete Pump Boom Truck	$60.14	7Z	4S	9A	View
Power Equipment Operators	Concrete Pumps (squeeze-crete, Flow-crete, Whitman & Similar)	$59.63	7Z	4S	9A	View
Power Equipment Operators	Concrete Saw (multiple Cut)	$58.73	7Z	4S	9A	View
Power Equipment Operators	Concrete Slip Form Paver	$60.14	7Z	4S	9A	View
Power Equipment Operators	Conveyor Aggregate Delivery Systems (c.a.d.)	$60.14	7Z	4S	9A	View
Power Equipment Operators	Crane Oiler & Cable Tender, Mucking Machine	$58.36	7Z	4S	9A	View

Power Equipment Operators	Crane Oiler - Driver (cdl Required)	$58.73	**7Z**	**4S**	**9A**	**View**
Power Equipment Operators	Cranes (100 to 299 Tons) All Attachments	$63.26	**7Z**	**4S**	**9A**	**View**
Power Equipment Operators	Cranes (25 Tons & Under), All Attachments Incl. Clamshell, Dragline	$59.82	**7Z**	**4S**	**9A**	**View**
Power Equipment Operators	Cranes (25 Tons To And Including 44 Tons), All Attachments Incl. Clamshell, Dragline	$60.14	**7Z**	**4S**	**9A**	**View**
Power Equipment Operators	Cranes (300 Tons and Over) All Attachments	$64.09	**7Z**	**4S**	**9A**	**View**
Power Equipment Operators	Cranes (45 Tons To 55 Tons), All Attachments Incl. Clamshell And Dragline	$60.46	**7Z**	**4S**	**9A**	**View**
Power Equipment Operators	Cranes (56 to 99 tons) and overhead, rail and Quick Tower. All attachment incl. Clamshell, Dragline	$62.33	**7Z**	**4S**	**9A**	**View**
Power Equipment Operators	Crusher Feeder	$58.36	**7Z**	**4S**	**9A**	**View**
Power Equipment Operators	Crusher, Grizzle & Screening Plant Operator	$60.14	**7Z**	**4S**	**9A**	**View**

Power Equipment Operators	Curb Extruder (asphalt Or Concrete)	$59.63	7Z	4S	9A	View
Power Equipment Operators	Deck Engineer	$59.44	7Z	4S	9A	View
Power Equipment Operators	Deck Hand	$58.36	7Z	4S	9A	View
Power Equipment Operators	Derricks & Stifflegs (65 Tons & Over)	$60.46	7Z	4S	9A	View
Power Equipment Operators	Derricks & Stifflegs (under 65 Tons)	$59.82	7Z	4S	9A	View
Power Equipment Operators	Distributor Leverman	$58.73	7Z	4S	9A	View
Power Equipment Operators	Ditch Witch Or Similar	$58.73	7Z	4S	9A	View
Power Equipment Operators	Dope Pots (power Agitated	$58.73	7Z	4S	9A	View
Power Equipment Operators	Dozer / Tractor (up To D-5 Or Equivalent) And Traxcavator	$59.44	7Z	4S	9A	View
Power Equipment Operators	Dozer / Tractors (d-6 & Equivalent & Over)	$60.14	7Z	4S	9A	View
Power Equipment Operators	Dozer, 834 R/t & Similar	$60.14	7Z	4S	9A	View
Power Equipment Operators	Drill Doctor	$60.14	7Z	4S	9A	View
Power Equipment Operators	Driller Licensed	$62.33	7Z	4S	9A	View
Power Equipment Operators	Drillers Helper	$58.36	7Z	4S	9A	View
Power Equipment Operators	Drilling Equipment (8 inch Bit & Over - Robbins, Reverse Circulation & Similar)	$59.82	7Z	4S	9A	View

Power Equipment Operators	Drills (churn, Core, Calyx Or Diamond)	$59.63	7Z	4S	9A	View
Power Equipment Operators	Elevating Belt (holland Type)	$60.46	7Z	4S	9A	View
Power Equipment Operators	Elevating Belt-type Loader (euclid, Barber Green & Similar)	$59.44	7Z	4S	9A	View
Power Equipment Operators	Elevating Grader-type Loader (dumor, Adams Or Similar)	$59.44	7Z	4S	9A	View
Power Equipment Operators	Elevator Hoisting Materials	$58.73	7Z	4S	9A	View
Power Equipment Operators	Equipment Serviceman, Greaser & Oiler	$59.63	7Z	4S	9A	View
Power Equipment Operators	Fireman & Heater Tender	$58.36	7Z	4S	9A	View
Power Equipment Operators	Fork Lift Or Lumber Stacker, Hydra-life & Similar	$58.73	7Z	4S	9A	View
Power Equipment Operators	Generator Plant Engineers (diesel Or Electric)	$59.44	7Z	4S	9A	View
Power Equipment Operators	Gin Trucks (pipeline)	$58.73	7Z	4S	9A	View
Power Equipment Operators	Grade Checker	$59.82	7Z	4S	9A	View
Power Equipment Operators	Gunite Combination Mixer & Compressor	$59.44	7Z	4S	9A	View
Power Equipment Operators	H.d. Mechanic	$60.46	7Z	4S	9A	View

Power Equipment Operators	H.d. Welder	$60.46	7Z	4S	9A	View
Power Equipment Operators	Heavy Equipment Robotics Operator	$60.46	7Z	4S	9A	View
Power Equipment Operators	Helicopter Pilot	$62.33	7Z	4S	9A	View
Power Equipment Operators	Helper, Mechanic Or Welder, H.D	$58.36	7Z	4S	9A	View
Power Equipment Operators	Hoe Ram	$59.82	7Z	4S	9A	View
Power Equipment Operators	Hoist (2 Or More Drums Or Tower Hoist)	$59.63	7Z	4S	9A	View
Power Equipment Operators	Hoist, Single Drum	$58.73	7Z	4S	9A	View
Power Equipment Operators	Hydraulic Platform Trailers (goldhofer, Shaurerly And Similar)	$60.46	7Z	4S	9A	View
Power Equipment Operators	Hydro-seeder, Mulcher, Nozzleman	$58.36	7Z	4S	9A	View
Power Equipment Operators	Lime Batch Tank Operator (recycle Train)	$60.14	7Z	4S	9A	View
Power Equipment Operators	Lime Brain Operator (recycle Train)	$60.14	7Z	4S	9A	View
Power Equipment Operators	Loader (360 Degrees Revolving Koehring Scooper Or Similar)	$60.46	7Z	4S	9A	View
Power Equipment Operators	Loader Operator (front-end & Overhead, 4 Yds. Incl. 8 Yds.)	$60.14	7Z	4S	9A	View

Power Equipment Operators	Loaders (bucket Elevators And Conveyors)	$58.73	7Z	4S	9A	View
Power Equipment Operators	Loaders (overhead & Front-end, Over 8 Yds.)	$60.46	7Z	4S	9A	View
Power Equipment Operators	Loaders (overhead & Front-end, Under 4 Yds.. R/t)	$59.63	7Z	4S	9A	View
Power Equipment Operators	Loaders (overhead And Front-end, 10 Yds. & Over)	$62.33	7Z	4S	9A	View
Power Equipment Operators	Locomotive Engineer	$59.44	7Z	4S	9A	View
Power Equipment Operators	Longitudinal Float	$58.73	7Z	4S	9A	View
Power Equipment Operators	Master Environmental Maintenance Technician	$60.46	7Z	4S	9A	View
Power Equipment Operators	Mixer (portable - Concrete)	$58.73	7Z	4S	9A	View
Power Equipment Operators	Mixermobile	$59.44	7Z	4S	9A	View
Power Equipment Operators	Mobile Crusher Operator (recycle Train)	$60.14	7Z	4S	9A	View
Power Equipment Operators	Mucking Machine	$59.44	7Z	4S	9A	View
Power Equipment Operators	Multiple Dozer Units With Single Blade	$60.14	7Z	4S	9A	View
Power Equipment Operators	Pavement Breaker, Hydra-hammer &	$58.73	7Z	4S	9A	View

	Similar					
Power Equipment Operators	Paving (dual Drum)	$59.82	**7Z**	**4S**	**9A**	**View**
Power Equipment Operators	Paving Machine (asphalt And Concrete)	$60.14	**7Z**	**4S**	**9A**	**View**
Power Equipment Operators	Piledriving Engineers	$59.82	**7Z**	**4S**	**9A**	**View**
Power Equipment Operators	Plant Oiler	$58.36	**7Z**	**4S**	**9A**	**View**
Power Equipment Operators	Posthole Auger Or Punch	$59.44	**7Z**	**4S**	**9A**	**View**
Power Equipment Operators	Power Broom	$58.73	**7Z**	**4S**	**9A**	**View**
Power Equipment Operators	Pump (grout Or Jet)	$59.44	**7Z**	**4S**	**9A**	**View**
Power Equipment Operators	Pumpman	$58.36	**7Z**	**4S**	**9A**	**View**
Power Equipment Operators	Quad-track Or Similar Equipment	$60.14	**7Z**	**4S**	**9A**	**View**
Power Equipment Operators	Railroad Ballast Regulation Operator (self-propelled)	$58.73	**7Z**	**4S**	**9A**	**View**
Power Equipment Operators	Railroad Power Tamper Operator (self-propelled)	$58.73	**7Z**	**4S**	**9A**	**View**
Power Equipment Operators	Railroad Tamper Jack Operator (self-propelled)	$58.73	**7Z**	**4S**	**9A**	**View**
Power Equipment Operators	Railroad Track Liner Operator (self-propelled)	$59.82	**7Z**	**4S**	**9A**	**View**

Power Equipment Operators	Refrigeration Plant Engineer (1000 Tons & Over)	$59.82	**7Z**	**4S**	**9A**	**View**
Power Equipment Operators	Refrigeration Plant Engineer (under 1000 Ton)	$59.63	**7Z**	**4S**	**9A**	**View**
Power Equipment Operators	Rollerman (finishing Asphalt Pavement)	$60.14	**7Z**	**4S**	**9A**	**View**
Power Equipment Operators	Rollers, All Types On Subgrade, Including Seal And Chip Coating (farm Type, Case, John Deere And Similar,or Compacting Vibrator), Except When Pulled B	$58.36	**7Z**	**4S**	**9A**	**View**
Power Equipment Operators	Roto Mill (pavement Grinder)	$60.14	**7Z**	**4S**	**9A**	**View**
Power Equipment Operators	Rotomill Groundsman	$59.63	**7Z**	**4S**	**9A**	**View**
Power Equipment Operators	Rubber-tired Scrapers (multiple Engine With Three Or More Scrapers)	$60.46	**7Z**	**4S**	**9A**	**View**
Power Equipment Operators	Rubber-tired Skidders (r/t With Or Without Attachments)	$59.63	**7Z**	**4S**	**9A**	**View**
Power Equipment Operators	Scrapers, All, Rubber-tired	$60.14	**7Z**	**4S**	**9A**	**View**
Power Equipment Operators	Screed Operator	$60.14	**7Z**	**4S**	**9A**	**View**

Power Equipment Operators	Shovels (3 Yds. & Over)	$60.46	7Z	4S	9A	View
Power Equipment Operators	Shovels (under 3 Yds.)	$60.14	7Z	4S	9A	View
Power Equipment Operators	Signalman (whirleys, Highline, Hammerheads Or Similar)	$59.82	7Z	4S	9A	View
Power Equipment Operators	Soil Stabilizer (p & H Or Similar)	$59.44	7Z	4S	9A	View
Power Equipment Operators	Spray Curing Machine (concrete)	$58.73	7Z	4S	9A	View
Power Equipment Operators	Spreader Box (self-propelled)	$58.73	7Z	4S	9A	View
Power Equipment Operators	Spreader Machine	$59.44	7Z	4S	9A	View
Power Equipment Operators	Steam Cleaner	$58.36	7Z	4S	9A	View
Power Equipment Operators	Straddle Buggy (ross & Similar On Construction Job Only)	$58.73	7Z	4S	9A	View
Power Equipment Operators	Surface Heater & Planer Machine	$59.63	7Z	4S	9A	View
Power Equipment Operators	Tractor (farm Type R/t With Attachments, Except Backhoe)	$58.73	7Z	4S	9A	View
Power Equipment Operators	Traverse Finish Machine	$59.44	7Z	4S	9A	View
Power Equipment Operators	Trenching Machines (7 Ft. Depth & Over)	$60.14	7Z	4S	9A	View

Power Equipment Operators	Trenching Machines (under 7 Ft. Depth Capacity)	$59.63	7Z	4S	9A	View
Power Equipment Operators	Tug Boat Operator	$60.14	7Z	4S	9A	View
Power Equipment Operators	Tugger Operator	$58.73	7Z	4S	9A	View
Power Equipment Operators	Turnhead (with Re-screening)	$59.63	7Z	4S	9A	View
Power Equipment Operators	Turnhead Operator	$59.44	7Z	4S	9A	View
Power Equipment Operators	Ultra High Pressure Wateriet Cutting Tool System Operator, (30,000 Psi)	$60.46	7Z	4S	9A	View
Power Equipment Operators	Vactor Guzzler, Super Sucker	$60.14	7Z	4S	9A	View
Power Equipment Operators	Vacuum Blasting Machine Operator	$60.46	7Z	4S	9A	View
Power Equipment Operators	Vacuum Drill (reverse Circulation Drill Under 8 Inch Bit)	$59.63	7Z	4S	9A	View
Power Equipment Operators	Welding Machine	$58.36	7Z	4S	9A	View
Power Equipment Operators	Whirleys & Hammerheads, All	$60.46	7Z	4S	9A	View
Power Equipment Operators-Underground Sewer & Water	A-frame Truck (2 Or More Drums)	$59.44	7Z	4S	9A	View
Power Equipment Operators-Underground Sewer & Water	A-frame Truck (single Drum)	$58.73	7Z	4S	9A	View

Power Equipment Operators-Underground Sewer & Water	All Tower Cranes	$64.09	7Z	4S	9A	View
Power Equipment Operators-Underground Sewer & Water	Asphalt Plant Operator	$60.14	7Z	4S	9A	View
Power Equipment Operators-Underground Sewer & Water	Assistant Plant Operator, Fireman Or Pugmixer (asphalt)	$58.73	7Z	4S	9A	View
Power Equipment Operators-Underground Sewer & Water	Assistant Refrigeration Plant & Chiller Operator (over 1000 Ton)	$59.44	7Z	4S	9A	View
Power Equipment Operators-Underground Sewer & Water	Assistant Refrigeration Plant (under 1000 Ton)	$58.73	7Z	4S	9A	View
Power Equipment Operators-Underground Sewer & Water	Automatic Subgrader (ditches & Trimmers)	$60.14	7Z	4S	9A	View
Power Equipment Operators-Underground Sewer & Water	Backfillers (cleveland & Similar)	$59.44	7Z	4S	9A	View
Power Equipment Operators-Underground Sewer & Water	Backhoe & Hoe Ram (under 3/4 Yd.)	$59.82	7Z	4S	9A	View
Power Equipment Operators-Underground Sewer & Water	Backhoe (45,000 Gw & Under)	$59.82	7Z	4S	9A	View
Power Equipment Operators-Underground Sewer & Water	Backhoe (45,000 Gw To 110,000 Gw)	$60.14	7Z	4S	9A	View
Power Equipment Operators-Underground Sewer & Water	Backhoe (over 110,000 Gw)	$60.46	7Z	4S	9A	View
Power Equipment Operators-Underground Sewer & Water	Backhoes & Hoe Ram (3 Yds & Over)	$60.46	7Z	4S	9A	View

Power Equipment Operators-Underground Sewer & Water	Backhoes & Hoe Ram (3/4 Yd. To 3 Yd.)	$60.14	**7Z**	**4S**	**9A**	**View**
Power Equipment Operators-Underground Sewer & Water	Bagley Or Stationary Scraper	$58.73	**7Z**	**4S**	**9A**	**View**
Power Equipment Operators-Underground Sewer & Water	Batch & Wet Mix Operator (multiple Units, 2 & Incl. 4)	$60.14	**7Z**	**4S**	**9A**	**View**
Power Equipment Operators-Underground Sewer & Water	Batch Plant & Wet Mix Operator, Single Unit (concrete)	$59.44	**7Z**	**4S**	**9A**	**View**
Power Equipment Operators-Underground Sewer & Water	Batch Plant (over 4 Units)	$60.14	**7Z**	**4S**	**9A**	**View**
Power Equipment Operators-Underground Sewer & Water	Belt Finishing Machine	$58.73	**7Z**	**4S**	**9A**	**View**
Power Equipment Operators-Underground Sewer & Water	Belt Loader (kocal Or Similar)	$59.44	**7Z**	**4S**	**9A**	**View**
Power Equipment Operators-Underground Sewer & Water	Belt-crete Conveyors With Power Pack Or Similar	$59.44	**7Z**	**4S**	**9A**	**View**
Power Equipment Operators-Underground Sewer & Water	Bending Machine	$59.44	**7Z**	**4S**	**9A**	**View**
Power Equipment Operators-Underground Sewer & Water	Bit Grinders	$58.36	**7Z**	**4S**	**9A**	**View**
Power Equipment Operators-Underground Sewer & Water	Blade (finish & Bluetop), Automatic, Cmi, Abc, Finish Athey & Huber & Similar When Used As Automatic	$60.46	**7Z**	**4S**	**9A**	**View**

Power Equipment Operators-Underground Sewer & Water	Blade Operator (motor Patrol & Attachments)	$60.14	7Z	4S	9A	View
Power Equipment Operators-Underground Sewer & Water	Blower Operator (cement)	$58.73	7Z	4S	9A	View
Power Equipment Operators-Underground Sewer & Water	Boat Operator	$58.36	7Z	4S	9A	View
Power Equipment Operators-Underground Sewer & Water	Bob Cat (skid Steer)	$59.44	7Z	4S	9A	View
Power Equipment Operators-Underground Sewer & Water	Bolt Threading Machine	$58.36	7Z	4S	9A	View
Power Equipment Operators-Underground Sewer & Water	Boom Cats (side)	$60.14	7Z	4S	9A	View
Power Equipment Operators-Underground Sewer & Water	Boring Machine (earth)	$59.44	7Z	4S	9A	View
Power Equipment Operators-Underground Sewer & Water	Boring Machine (Rock Under 8 inch Bit - Quarry Master, Joy Or Similar)	$59.44	7Z	4S	9A	View
Power Equipment Operators-Underground Sewer & Water	Bump Cutter (wayne, Saginau Or Similar)	$59.44	7Z	4S	9A	View
Power Equipment Operators-Underground Sewer & Water	Cableway Controller (dispatcher)	$60.14	7Z	4S	9A	View
Power Equipment Operators-Underground Sewer & Water	Cableway Operators	$60.46	7Z	4S	9A	View
Power Equipment Operators-Underground Sewer & Water	Canal Lining Machine (concrete)	$59.44	7Z	4S	9A	View
Power Equipment Operators-Underground Sewer & Water	Carrydeck & Boom Truck (under 25 Tons)	$59.82	7Z	4S	9A	View

Power Equipment Operators-Underground Sewer & Water	Cement Hog	$58.73	7Z	4S	9A	View
Power Equipment Operators-Underground Sewer & Water	Chipper (Without Crane)	$59.44	7Z	4S	9A	View
Power Equipment Operators-Underground Sewer & Water	Clamshell, Dragline	$62.33	7Z	4S	9A	View
Power Equipment Operators-Underground Sewer & Water	Cleaning & Doping Machine (Pipeline)	$59.44	7Z	4S	9A	View
Power Equipment Operators-Underground Sewer & Water	Compactor (self-propelled With Blade)	$60.14	7Z	4S	9A	View
Power Equipment Operators-Underground Sewer & Water	Compressor (2000 Cfm Or Over, 2 Or More, Gas Diesel Or Electric Power)	$58.73	7Z	4S	9A	View
Power Equipment Operators-Underground Sewer & Water	Compressors (under 2000 Cfm, Gas, Diesel Or Electric Power)	$58.36	7Z	4S	9A	View
Power Equipment Operators-Underground Sewer & Water	Concrete Cleaning / Decontamination Machine Operator	$60.46	7Z	4S	9A	View
Power Equipment Operators-Underground Sewer & Water	Concrete Pump Boom Truck	$60.14	7Z	4S	9A	View
Power Equipment Operators-Underground Sewer & Water	Concrete Pumps (squeeze-crete, Flow-crete, Whitman & Similar)	$59.63	7Z	4S	9A	View
Power Equipment Operators-Underground Sewer & Water	Concrete Saw (multiple Cut)	$58.73	7Z	4S	9A	View

Power Equipment Operators-Underground Sewer & Water	Concrete Slip Form Paver	$60.14	7Z	4S	9A	View
Power Equipment Operators-Underground Sewer & Water	Conveyor Aggregate Delivery Systems (c.a.d.)	$60.14	7Z	4S	9A	View
Power Equipment Operators-Underground Sewer & Water	Crane Oiler & Cable Tender, Mucking Machine	$58.36	7Z	4S	9A	View
Power Equipment Operators-Underground Sewer & Water	Crane Oiler - Driver (cdl Required)	$58.73	7Z	4S	9A	View
Power Equipment Operators-Underground Sewer & Water	Cranes (100 to 299 Tons) All Attachments	$63.26	7Z	4S	9A	View
Power Equipment Operators-Underground Sewer & Water	Cranes (25 Tons & Under), All Attachments Incl. Clamshell, Dragline	$59.82	7Z	4S	9A	View
Power Equipment Operators-Underground Sewer & Water	Cranes (25 Tons To And Including 44 Tons), All Attachments Incl. Clamshell, Dragline	$60.14	7Z	4S	9A	View
Power Equipment Operators-Underground Sewer & Water	Cranes (300 Tons and Over) All Attachments	$64.09	7Z	4S	9A	View
Power Equipment Operators-Underground Sewer & Water	Cranes (45 Tons To 55 Tons), All Attachments Incl. Clamshell And Dragline	$60.46	7Z	4S	9A	View
Power Equipment Operators-Underground Sewer & Water	Cranes (56 to 99 tons) and overhead, rail and Quick Tower.	$62.33	7Z	4S	9A	View

	All attachment incl. Clamshell, Dragline					
Power Equipment Operators-Underground Sewer & Water	Crusher Feeder	$58.36	7Z	4S	9A	View
Power Equipment Operators-Underground Sewer & Water	Crusher, Grizzle & Screening Plant Operator	$60.14	7Z	4S	9A	View
Power Equipment Operators-Underground Sewer & Water	Curb Extruder (asphalt Or Concrete)	$59.63	7Z	4S	9A	View
Power Equipment Operators-Underground Sewer & Water	Deck Engineer	$59.44	7Z	4S	9A	View
Power Equipment Operators-Underground Sewer & Water	Deck Hand	$58.36	7Z	4S	9A	View
Power Equipment Operators-Underground Sewer & Water	Derricks & Stifflegs (65 Tons & Over)	$60.46	7Z	4S	9A	View
Power Equipment Operators-Underground Sewer & Water	Derricks & Stifflegs (under 65 Tons)	$59.82	7Z	4S	9A	View
Power Equipment Operators-Underground Sewer & Water	Distributor Leverman	$58.73	7Z	4S	9A	View
Power Equipment Operators-Underground Sewer & Water	Ditch Witch Or Similar	$58.73	7Z	4S	9A	View
Power Equipment Operators-Underground Sewer & Water	Dope Pots (power Agitated	$58.73	7Z	4S	9A	View
Power Equipment Operators-Underground Sewer & Water	Dozer / Tractor (up To D-5 Or Equivalent) And Traxcavator	$59.44	7Z	4S	9A	View
Power Equipment Operators-Underground Sewer & Water	Dozer / Tractors (d-6 & Equivalent & Over)	$60.14	7Z	4S	9A	View

Power Equipment Operators-Underground Sewer & Water	Dozer, 834 R/t & Similar	$60.14	7Z	4S	9A	View
Power Equipment Operators-Underground Sewer & Water	Drill Doctor	$60.14	7Z	4S	9A	View
Power Equipment Operators-Underground Sewer & Water	Driller Licensed	$62.33	7Z	4S	9A	View
Power Equipment Operators-Underground Sewer & Water	Drillers Helper	$58.36	7Z	4S	9A	View
Power Equipment Operators-Underground Sewer & Water	Drilling Equipment (8 inch Bit & Over - Robbins, Reverse Circulation & Similar)	$59.82	7Z	4S	9A	View
Power Equipment Operators-Underground Sewer & Water	Drills (churn, Core, Calyx Or Diamond)	$59.63	7Z	4S	9A	View
Power Equipment Operators-Underground Sewer & Water	Elevating Belt (holland Type)	$60.46	7Z	4S	9A	View
Power Equipment Operators-Underground Sewer & Water	Elevating Belt-type Loader (euclid, Barber Green & Similar)	$59.44	7Z	4S	9A	View
Power Equipment Operators-Underground Sewer & Water	Elevating Grader-type Loader (dumor, Adams Or Similar)	$59.44	7Z	4S	9A	View
Power Equipment Operators-Underground Sewer & Water	Elevator Hoisting Materials	$58.73	7Z	4S	9A	View
Power Equipment Operators-Underground Sewer & Water	Equipment Serviceman, Greaser & Oiler	$59.63	7Z	4S	9A	View
Power Equipment Operators-Underground Sewer & Water	Fireman & Heater Tender	$58.36	7Z	4S	9A	View

Power Equipment Operators-Underground Sewer & Water	Fork Lift Or Lumber Stacker, Hydra-life & Similar	$58.73	7Z	4S	9A	View
Power Equipment Operators-Underground Sewer & Water	Generator Plant Engineers (diesel Or Electric)	$59.44	7Z	4S	9A	View
Power Equipment Operators-Underground Sewer & Water	Gin Trucks (pipeline)	$58.73	7Z	4S	9A	View
Power Equipment Operators-Underground Sewer & Water	Grade Checker	$59.82	7Z	4S	9A	View
Power Equipment Operators-Underground Sewer & Water	Gunite Combination Mixer & Compressor	$59.44	7Z	4S	9A	View
Power Equipment Operators-Underground Sewer & Water	H.d. Mechanic	$60.46	7Z	4S	9A	View
Power Equipment Operators-Underground Sewer & Water	H.d. Welder	$60.46	7Z	4S	9A	View
Power Equipment Operators-Underground Sewer & Water	Heavy Equipment Robotics Operator	$60.46	7Z	4S	9A	View
Power Equipment Operators-Underground Sewer & Water	Helicopter Pilot	$62.33	7Z	4S	9A	View
Power Equipment Operators-Underground Sewer & Water	Helper, Mechanic Or Welder, H.D	$58.36	7Z	4S	9A	View
Power Equipment Operators-Underground Sewer & Water	Hoe Ram	$59.82	7Z	4S	9A	View
Power Equipment Operators-Underground Sewer & Water	Hoist (2 Or More Drums Or Tower Hoist)	$59.63	7Z	4S	9A	View
Power Equipment Operators-Underground Sewer & Water	Hoist, Single Drum	$58.73	7Z	4S	9A	View

Power Equipment Operators-Underground Sewer & Water	Hydraulic Platform Trailers (goldhofer, Shaurerly And Similar)	$60.46	7Z	4S	9A	View
Power Equipment Operators-Underground Sewer & Water	Hydro-seeder, Mulcher, Nozzleman	$58.36	7Z	4S	9A	View
Power Equipment Operators-Underground Sewer & Water	Lime Batch Tank Operator (recycle Train)	$60.14	7Z	4S	9A	View
Power Equipment Operators-Underground Sewer & Water	Lime Brain Operator (recycle Train)	$60.14	7Z	4S	9A	View
Power Equipment Operators-Underground Sewer & Water	Loader (360 Degrees Revolving Koehring Scooper Or Similar)	$60.46	7Z	4S	9A	View
Power Equipment Operators-Underground Sewer & Water	Loader Operator (front-end & Overhead, 4 Yds. Incl. 8 Yds.)	$60.14	7Z	4S	9A	View
Power Equipment Operators-Underground Sewer & Water	Loaders (bucket Elevators And Conveyors)	$58.73	7Z	4S	9A	View
Power Equipment Operators-Underground Sewer & Water	Loaders (overhead & Front-end, Over 8 Yds.)	$60.46	7Z	4S	9A	View
Power Equipment Operators-Underground Sewer & Water	Loaders (overhead & Front-end, Under 4 Yds.. R/t)	$59.63	7Z	4S	9A	View
Power Equipment Operators-Underground Sewer & Water	Locomotive Engineer	$59.44	7Z	4S	9A	View
Power Equipment Operators-Underground Sewer & Water	Longitudinal Float	$58.73	7Z	4S	9A	View

Power Equipment Operators-Underground Sewer & Water	Master Environmental Maintenance Technician	$60.46	7Z	4S	9A	View
Power Equipment Operators-Underground Sewer & Water	Mixer (portable - Concrete)	$58.73	7Z	4S	9A	View
Power Equipment Operators-Underground Sewer & Water	Mixermobile	$59.44	7Z	4S	9A	View
Power Equipment Operators-Underground Sewer & Water	Mobile Crusher Operator (recycle Train)	$60.14	7Z	4S	9A	View
Power Equipment Operators-Underground Sewer & Water	Mucking Machine	$59.44	7Z	4S	9A	View
Power Equipment Operators-Underground Sewer & Water	Multiple Dozer Units With Single Blade	$60.14	7Z	4S	9A	View
Power Equipment Operators-Underground Sewer & Water	Pavement Breaker, Hydra-hammer & Similar	$58.73	7Z	4S	9A	View
Power Equipment Operators-Underground Sewer & Water	Paving (dual Drum)	$59.82	7Z	4S	9A	View
Power Equipment Operators-Underground Sewer & Water	Paving Machine (asphalt And Concrete)	$60.14	7Z	4S	9A	View
Power Equipment Operators-Underground Sewer & Water	Piledriving Engineers	$59.82	7Z	4S	9A	View
Power Equipment Operators-Underground Sewer & Water	Plant Oiler	$58.36	7Z	4S	9A	View
Power Equipment Operators-Underground Sewer & Water	Posthole Auger Or Punch	$59.44	7Z	4S	9A	View

Power Equipment Operators-Underground Sewer & Water	Power Broom	$58.73	7Z	4S	9A	View
Power Equipment Operators-Underground Sewer & Water	Pump (grout Or Jet)	$59.44	7Z	4S	9A	View
Power Equipment Operators-Underground Sewer & Water	Pumpman	$58.36	7Z	4S	9A	View
Power Equipment Operators-Underground Sewer & Water	Quad-track Or Similar Equipment	$60.14	7Z	4S	9A	View
Power Equipment Operators-Underground Sewer & Water	Railroad Ballast Regulation Operator (self-propelled)	$58.73	7Z	4S	9A	View
Power Equipment Operators-Underground Sewer & Water	Railroad Power Tamper Operator (self-propelled)	$58.73	7Z	4S	9A	View
Power Equipment Operators-Underground Sewer & Water	Railroad Tamper Jack Operator (self-propelled)	$58.73	7Z	4S	9A	View
Power Equipment Operators-Underground Sewer & Water	Railroad Track Liner Operator (self-propelled)	$59.82	7Z	4S	9A	View
Power Equipment Operators-Underground Sewer & Water	Refrigeration Plant Engineer (1000 Tons & Over)	$59.82	7Z	4S	9A	View
Power Equipment Operators-Underground Sewer & Water	Refrigeration Plant Engineer (under 1000 Ton)	$59.63	7Z	4S	9A	View
Power Equipment Operators-Underground Sewer & Water	Rollerman (finishing Asphalt Pavement)	$60.14	7Z	4S	9A	View

Power Equipment Operators-Underground Sewer & Water	Rollers, All Types On Subgrade, Including Seal And Chip Coating (farm Type, Case, John Deere And Similar,or Compacting Vibrator), Except When Pulled B	$58.36	7Z	4S	9A	View
Power Equipment Operators-Underground Sewer & Water	Roto Mill (pavement Grinder)	$60.14	7Z	4S	9A	View
Power Equipment Operators-Underground Sewer & Water	Rotomill Groundsman	$59.63	7Z	4S	9A	View
Power Equipment Operators-Underground Sewer & Water	Rubber-tired Scrapers (multiple Engine With Three Or More Scrapers)	$60.46	7Z	4S	9A	View
Power Equipment Operators-Underground Sewer & Water	Rubber-tired Skidders (r/t With Or Without Attachments)	$59.63	7Z	4S	9A	View
Power Equipment Operators-Underground Sewer & Water	Scrapers, All, Rubber-tired	$60.14	7Z	4S	9A	View
Power Equipment Operators-Underground Sewer & Water	Screed Operator	$60.14	7Z	4S	9A	View
Power Equipment Operators-Underground Sewer & Water	Shovels (3 Yds. & Over)	$60.46	7Z	4S	9A	View
Power Equipment Operators-Underground Sewer & Water	Shovels (under 3 Yds.)	$60.14	7Z	4S	9A	View
Power Equipment Operators-Underground Sewer & Water	Signalman (whirleys, Highline, Hammerheads Or Similar)	$59.82	7Z	4S	9A	View

Power Equipment Operators-Underground Sewer & Water	Soil Stabilizer (p & H Or Similar)	$59.44	7Z	4S	9A	View
Power Equipment Operators-Underground Sewer & Water	Spray Curing Machine (concrete)	$58.73	7Z	4S	9A	View
Power Equipment Operators-Underground Sewer & Water	Spreader Box (self-propelled)	$58.73	7Z	4S	9A	View
Power Equipment Operators-Underground Sewer & Water	Spreader Machine	$59.44	7Z	4S	9A	View
Power Equipment Operators-Underground Sewer & Water	Steam Cleaner	$58.36	7Z	4S	9A	View
Power Equipment Operators-Underground Sewer & Water	Straddle Buggy (ross & Similar On Construction Job Only)	$58.73	7Z	4S	9A	View
Power Equipment Operators-Underground Sewer & Water	Surface Heater & Planer Machine	$59.63	7Z	4S	9A	View
Power Equipment Operators-Underground Sewer & Water	Tractor (farm Type R/t With Attachments, Except Backhoe)	$58.73	7Z	4S	9A	View
Power Equipment Operators-Underground Sewer & Water	Traverse Finish Machine	$59.44	7Z	4S	9A	View
Power Equipment Operators-Underground Sewer & Water	Trenching Machines (7 Ft. Depth & Over)	$60.14	7Z	4S	9A	View
Power Equipment Operators-Underground Sewer & Water	Trenching Machines (under 7 Ft. Depth Capacity)	$59.63	7Z	4S	9A	View
Power Equipment Operators-Underground Sewer & Water	Tug Boat Operator	$60.14	7Z	4S	9A	View

Power Equipment Operators-Underground Sewer & Water	Tugger Operator	$58.73	**7Z**	**4S**	**9A**	**View**
Power Equipment Operators-Underground Sewer & Water	Turnhead (with Re-screening)	$59.63	**7Z**	**4S**	**9A**	**View**
Power Equipment Operators-Underground Sewer & Water	Turnhead Operator	$59.44	**7Z**	**4S**	**9A**	**View**
Power Equipment Operators-Underground Sewer & Water	Ultra High Pressure Wateriet Cutting Tool System Operator, (30,000 Psi)	$60.46	**7Z**	**4S**	**9A**	**View**
Power Equipment Operators-Underground Sewer & Water	Vactor Guzzler, Super Sucker	$60.14	**7Z**	**4S**	**9A**	**View**
Power Equipment Operators-Underground Sewer & Water	Vacuum Blasting Machine Operator	$60.46	**7Z**	**4S**	**9A**	**View**
Power Equipment Operators-Underground Sewer & Water	Vacuum Drill (reverse Circulation Drill Under 8 Inch Bit)	$59.63	**7Z**	**4S**	**9A**	**View**
Power Equipment Operators-Underground Sewer & Water	Welding Machine	$58.36	**7Z**	**4S**	**9A**	**View**
Power Equipment Operators-Underground Sewer & Water	Whirleys & Hammerheads, All	$60.46	**7Z**	**4S**	**9A**	**View**
Power Line Clearance Tree Trimmers	Journey Level In Charge	$64.20	**5A**	**4A**		**View**
Power Line Clearance Tree Trimmers	Spray Person	$60.74	**5A**	**4A**		**View**
Power Line Clearance Tree Trimmers	Tree Equipment Operator	$64.20	**5A**	**4A**		**View**
Power Line Clearance Tree Trimmers	Tree Trimmer	$57.29	**5A**	**4A**		**View**

Power Line Clearance Tree Trimmers	Tree Trimmer Groundperson	$43.05	**5A**	**4A**	**View**
Refrigeration & Air Conditioning Mechanics	Journey Level	$97.01	**6Z**	**1Q**	**View**
Residential Brick Mason	Journey Level	$59.64	**5A**	**1M**	**View**
Residential Carpenters	Journey Level	$25.00		**1**	**View**
Residential Cement Masons	Journey Level	$16.66		**1**	**View**
Residential Drywall Applicators	Journey Level	$25.64		**1**	**View**
Residential Drywall Tapers	Journey Level	$53.68	**7E**	**1P**	**View**
Residential Electricians	Journey Level	$31.82		**1**	**View**
Residential Glaziers	Journey Level	$20.72		**1**	**View**
Residential Insulation Applicators	Journey Level	$16.66		**1**	**View**
Residential Laborers	Journey Level	$22.44		**1**	**View**
Residential Marble Setters	Journey Level	$59.64	**5A**	**1M**	**View**
Residential Painters	Journey Level	$25.08		**1**	**View**
Residential Plumbers & Pipefitters	Journey Level	$43.33		**1**	**View**
Residential Refrigeration & Air Conditioning Mechanics	Journey Level	$18.40		**1**	**View**
Residential Sheet Metal Workers	Journey Level (Field or Shop)	$71.88	**5I**	**1B**	**View**

Residential Soft Floor Layers	Journey Level	$17.62		**1**	**View**
Residential Sprinkler Fitters (Fire Protection)	Journey Level	$18.40		**1**	**View**
Residential Stone Masons	Journey Level	$59.64	**5A**	**1M**	**View**
Residential Terrazzo Workers	Journey Level	$20.61		**1**	**View**
Residential Terrazzo/Tile Finishers	Journey Level	$17.92		**1**	**View**
Residential Tile Setters	Journey Level	$20.61		**1**	**View**
Roofers	Journey Level	$48.54	**5I**	**1R**	**View**
Roofers	Using Irritable Bituminous Materials	$50.54	**5I**	**1R**	**View**
Sheet Metal Workers	Journey Level (Field or Shop)	$74.38	**6Z**	**1B**	**View**
Sign Makers & Installers (Electrical)	Journey Level	$16.66		**1**	**View**
Sign Makers & Installers (Non-Electrical)	Journey Level	$16.66		**1**	**View**
Soft Floor Layers	Journey Level	$59.52	**7C**	**3J**	**View**
Solar Controls For Windows	Journey Level	$16.66		**1**	**View**
Sprinkler Fitters (Fire Protection)	Journey Level	$69.91	**7J**	**1R**	**View**
Stage Rigging Mechanics (Non Structural)	Journey Level	$16.66		**1**	**View**
Stone Masons	Journey Level	$59.64	**5A**	**1M**	**View**

Street And Parking Lot Sweeper Workers	Journey Level	$16.66		1		View
Surveyors	Chain Person	$16.66	0	1	9H	View
Surveyors	Instrument Person	$16.66	0	1	9H	View
Surveyors	Party Chief	$16.66	0	1	9H	View
Telecommunication Technicians	Journey Level	$56.78	5I	1B		View
Telephone Line Construction - Outside	Cable Splicer	$41.35	5A	2B		View
Telephone Line Construction - Outside	Hole Digger/Ground Person	$27.31	5A	2B		View
Telephone Line Construction - Outside	Telephone Equipment Operator (Light)	$34.53	5A	2B		View
Telephone Line Construction - Outside	Telephone Lineperson	$39.07	5A	2B		View
Terrazzo Workers	Journey Level	$43.81	5A	1M		View
Tile Setters	Journey Level	$43.81	5A	1M		View
Tile, Marble & Terrazzo Finishers	Journey Level	$35.93	5A	1M		View
Traffic Control Stripers	All cleanup required in connection with traffic control stripers work (Group 1)	$92.44	15L	1K		View
Traffic Control Stripers	Handling, painting and installing of all car stops, stop signs and	$55.54	15L	1K		View

	any other type sign (Group 2)				
Traffic Control Stripers	Installation of guard rail and posts and similar protective devices (Group 2)	$55.54	**15L**	**1K**	**View**
Traffic Control Stripers	Installation of parking gates, ticket spitters and other mechanical and automatic control devices (Group 2)	$55.54	**15L**	**1K**	**View**
Traffic Control Stripers	Installation of plastic metal or composition button, or lines used instead of paint (Group 1)	$92.44	**15L**	**1K**	**View**
Traffic Control Stripers	Line removal; chemical sand and hydro-blast, paint and button (Group 1)	$92.44	**15L**	**1K**	**View**
Traffic Control Stripers	Manufacturing and installation of all car stops and control devices and similar traffic regulators (Group 2)	$55.54	**15L**	**1K**	**View**
Traffic Control Stripers	Manufacturing, painting, stenciling, servicing, repairing, placing and removal of traffic safety and control	$55.54	**15L**	**1K**	**View**

	devices/barricades (Group 2)					
Traffic Control Stripers	Painting and installing lines, arrows, bumpers, curbs, etc., on parking lots, air fields, highways, game courts (Group 1)	$92.44	**15L**	**1K**		**View**
Traffic Control Stripers	Preparation and maintenance of all surfaces (Group 1)	$92.44	**15L**	**1K**		**View**
Traffic Control Stripers	Seal coating, slurry coating and other surface protection (Group 2)	$55.54	**15L**	**1K**		**View**
Truck Drivers	Asphalt Mix Over 20 Yards	$59.45	**5D**	**1V**	**8M**	**View**
Truck Drivers	Asphalt Mix To 20 Yards	$59.25	**5D**	**1V**	**8M**	**View**
Truck Drivers	Dump Truck	$59.25	**5D**	**1V**	**8M**	**View**
Truck Drivers	Dump Truck & Trailer	$59.45	**5D**	**1V**	**8M**	**View**
Truck Drivers	Other Trucks	$59.14	**5D**	**1V**	**8M**	**View**
Truck Drivers - Ready Mix	Transit Mixers 20 yards and under	$59.45	**5D**	**1V**	**8M**	**View**
Truck Drivers - Ready Mix	Transit Mixers over 20 yards	$59.79	**5D**	**1V**	**8M**	**View**
Well Drillers & Irrigation Pump Installers	Irrigation Pump Installer	$16.66		**1**		**View**

Well Drillers & Irrigation Pump Installers	Oiler	$16.66	**1**	**View**
Well Drillers & Irrigation Pump Installers	Well Driller	$18.00	**1**	**View**

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Overtime Codes

Overtime calculations are based on the hourly rate actually paid to the worker. On public works projects, the hourly rate must be not less than the prevailing rate of wage minus the hourly rate of the cost of fringe benefits actually provided for the worker.

1. ALL HOURS WORKED IN EXCESS OF EIGHT (8) HOURS PER DAY OR FORTY (40) HOURS PER WEEK SHALL BE PAID AT ONE AND ONE-HALF TIMES THE HOURLY RATE OF WAGE.

B. All hours worked on Saturdays shall be paid at one and one-half times the hourly rate of wage. All hours worked on Sundays and holidays shall be paid at double the hourly rate of wage.

C. The first two (2) hours after eight (8) regular hours Monday through Friday and the first ten (10) hours on Saturday shall be paid at one and one-half times the hourly rate of wage. All other overtime hours and all hours worked on Sundays and holidays shall be paid at double the hourly rate of wage.

D. The first two (2) hours before or after a five-eight (8) hour workweek day or a four-ten (10) hour workweek day and the first eight (8) hours worked the next day after either workweek shall be paid at one and one-half times the hourly rate of wage. All additional hours worked and all worked on Sundays and holidays shall be paid at double the hourly rate of wage.

E. The first two (2) hours after eight (8) regular hours Monday through Friday and the first eight (8) hours on Saturday shall be paid at one and one-half times the hourly rate of wage. All other hours worked Monday through Saturday, and all hours worked on Sundays and holidays shall be paid at double the hourly rate of wage.

F. The first two (2) hours after eight (8) regular hours Monday through Friday and the first ten (10) hours on Saturday shall be paid at one and one-half times the hourly rate of wage. All other overtime hours worked, except Labor Day, shall be paid at double the hourly rate of wage. All hours worked on Labor Day shall be paid at three times the hourly rate of wage.

G. The first ten (10) hours worked on Saturdays and the first ten (10) hours worked on a fifth calendar weekday in a four-ten hour schedule, shall be paid at one and one-half times the hourly rate of wage. All hours worked in excess of ten (10) hours per day Monday through Saturday and all hours worked on Sundays and holidays shall be paid at double the hourly rate of wage.

H. All hours worked on Saturdays (except makeup days if work is lost due to inclement weather conditions or equipment breakdown) shall be paid at one and one-half times the hourly rate of wage. All hours worked Monday through Saturday over twelve (12) hours and all hours worked on Sundays and holidays shall be paid at double the hourly rate of wage.

I. All hours worked on Sundays and holidays shall also be paid at double the hourly rate of wage.

J. The first two (2) hours after eight (8) regular hours Monday through Friday and the first ten (10) hours on Saturday shall be paid at one and one-half times the hourly rate of wage. All hours worked over ten (10) hours Monday through Saturday, Sundays and holidays shall be paid at double the hourly rate of wage.

K. All hours worked on Saturdays and Sundays shall be paid at one and one-half times the hourly rate of wage. All hours worked on holidays shall be paid at double the hourly rate of wage.

M. All hours worked on Saturdays (except makeup days if work is lost due to inclement weather conditions) shall be paid at one and one-half times the hourly rate of wage. All hours worked on Sundays and holidays shall be paid at double the hourly rate of wage.

Overtime Codes Continued

1. N. All hours worked on Saturdays (except makeup days) shall be paid at one and one-half times the hourly rate of wage. All hours worked on Sundays and holidays shall be paid at double the hourly rate of wage.

O. The first ten (10) hours worked on Saturday shall be paid at one and one-half times the hourly rate of wage. All hours worked on Sundays, holidays and after twelve (12) hours, Monday through Friday and after ten (10) hours on Saturday shall be paid at double the hourly rate of wage.

P. All hours worked on Saturdays (except makeup days if circumstances warrant) and Sundays shall be paid at one and one-half times the hourly rate of wage. All hours worked on holidays shall be paid at double the hourly rate of wage.

Q. The first two (2) hours after eight (8) regular hours Monday through Friday and up to ten (10) hours worked on Saturdays shall be paid at one and one-half times the hourly rate of wage. All hours worked in excess of ten (10) hours per day Monday through Saturday and all hours worked on Sundays and holidays (except Christmas day) shall be paid at double the hourly rate of wage. All hours worked on Christmas day shall be paid at two and one-half times the hourly rate of wage.

R. All hours worked on Sundays and holidays shall be paid at two times the hourly rate of wage.

U. All hours worked on Saturdays shall be paid at one and one-half times the hourly rate of wage. All hours worked on Sundays and holidays (except Labor Day) shall be paid at two times the hourly rate of wage. All hours worked on Labor Day shall be paid at three times the hourly rate of wage.

V. All hours worked on Sundays and holidays (except Thanksgiving Day and Christmas day) shall be paid at one and one-half times the hourly rate of wage. All hours worked on Thanksgiving Day and Christmas day shall be paid at double the hourly rate of wage.

W. All hours worked on Saturdays and Sundays (except make-up days due to conditions beyond the control of the employer)) shall be paid at one and one-half times the hourly rate of wage. All hours worked on holidays shall be paid at double the hourly rate of wage.

X. The first four (4) hours after eight (8) regular hours Monday through Friday and the first twelve (12) hours on Saturday shall be paid at one and one-half times the hourly rate of wage. All hours worked over twelve (12) hours Monday through Saturday, Sundays and holidays shall be paid at double the hourly rate of wage. When holiday falls on Saturday or Sunday, the day before Saturday, Friday, and the day after Sunday, Monday, shall be considered the holiday and all work performed shall be paid at double the hourly rate of wage.

Y. All hours worked outside the hours of 5:00 am and 5:00 pm (or such other hours as may be agreed upon by any employer and the employee) and all hours worked in excess of eight (8) hours per day (10 hours per day for a 4 x 10 workweek) and on Saturdays and holidays (except labor day) shall be paid at one and one-half times the hourly rate of wage. (except for employees who are absent from work without prior approval on a scheduled workday during the workweek shall be paid at the straight-time rate until they have worked 8 hours in a day (10 in a 4 x 10 workweek) or 40 hours during that workweek.) All hours worked Monday through Saturday over twelve (12) hours and all hours worked on Sundays and Labor Day shall be paid at double the hourly rate of wage.

Z. All hours worked on Saturdays and Sundays shall be paid at one and one-half times the hourly rate of wage. All hours worked on holidays shall be paid the straight time rate of pay in addition to holiday pay.

Overtime Codes Continued

2. ALL HOURS WORKED IN EXCESS OF EIGHT (8) HOURS PER DAY OR FORTY (40) HOURS PER WEEK SHALL BE PAID AT ONE AND ONE-HALF TIMES THE HOURLY RATE OF WAGE.

   B. All hours worked on holidays shall be paid at one and one-half times the hourly rate of wage.

   F. The first eight (8) hours worked on holidays shall be paid at the straight hourly rate of wage in addition to the holiday pay. All hours worked in excess of eight (8) hours on holidays shall be paid at double the hourly rate of wage.

   M. This code appears to be missing. All hours worked on Saturdays, Sundays and holidays shall be paid at double the hourly rate of wage.

   R. All hours worked on Sundays and holidays and all hours worked over sixty (60) in one week shall be paid at double the hourly rate of wage.

   U. All hours worked on Saturdays shall be paid at one and one-half times the hourly rate of wage. All hours worked over 12 hours in a day or on Sundays and holidays shall be paid at double the hourly rate of wage.

3. ALL HOURS WORKED IN EXCESS OF EIGHT (8) HOURS PER DAY OR FORTY (40) HOURS PER WEEK SHALL BE PAID AT ONE AND ONE-HALF TIMES THE HOURLY RATE OF WAGE.

   F. All hours worked on Saturday shall be paid at one and one-half times the hourly rate of wage. All hours worked on Sunday shall be paid at two times the hourly rate of wage. All hours worked on paid holidays shall be paid at two and one-half times the hourly rate of wage including holiday pay.

   H. All work performed on Sundays between March 16th and October 14th and all Holidays shall be compensated for at two (2) times the regular rate of pay. Work performed on Sundays between October 15th and March 15th shall be compensated at one and one half (1-1/2) times the regular rate of pay.

   J. All hours worked between the hours of 10:00 pm and 5:00 am, Monday through Friday, and all hours worked on Saturdays shall be paid at a one and one-half times the hourly rate of wage. All hours worked on Sundays and holidays shall be paid at double the hourly rate of wage.

   K. Work performed in excess of eight (8) hours of straight time per day, or ten (10) hours of straight time per day when four ten (10) hour shifts are established, or forty (40) hours of straight time per week, Monday through Friday, or outside the normal 5 am to 6pm shift, and all work on Saturdays shall be paid at one and one-half times the hourly rate of wage. All work performed after 6:00 pm Saturday to 5:00 am Monday and Holidays, and all hours worked in excess of twelve (12) hours in a single shift shall be paid at double the hourly rate of wage.

   After an employee has worked eight (8) hours at an applicable overtime rate, all additional hours shall be at the applicable overtime rate until such time as the employee has had a break of eight (8) hours or more. When an employee returns to work without at least eight (8) hours time off since their previous shift, all such time shall be a continuation of shift and paid at the applicable overtime rate until he/she shall have the eight (8) hours rest period.

Overtime Codes Continued

4. ALL HOURS WORKED IN EXCESS OF EIGHT (8) HOURS PER DAY OR FORTY (40) HOURS PER WEEK SHALL BE PAID AT ONE AND ONE-HALF TIMES THE HOURLY RATE OF WAGE.

A. All hours worked in excess of eight (8) hours per day or forty (40) hours per week shall be paid at double the hourly rate of wage. All hours worked on Saturdays, Sundays and holidays shall be paid at double the hourly rate of wage

C. On Monday through Friday, the first four (4) hours of overtime after eight (8) hours of straight time work shall be paid at one and one half (1-1/2) times the straight time rate of pay, unless a four (4) day ten (10) hour workweek has been established. On a four (4) day ten (10) hour workweek scheduled Monday through Thursday, or Tuesday through Friday, the first two (2) hours of overtime after ten (10) hours of straight time work shall be paid at one and one half (1-1/2) times the straight time rate of pay. On Saturday, the first twelve (12) hours of work shall be paid at one and one half (1-1/2) times the straight time rate of pay, except that if the job is down on Monday through Friday due to weather conditions or other conditions outside the control of the employer, the first ten (10) hours on Saturday may be worked at the straight time rate of pay. All hours worked over twelve (12) hours in a day and all hours worked on Sunday and Holidays shall be paid at two (2) times the straight time rate of pay.

D. All hours worked in excess of eight (8) hours per day or forty (40) hours per week shall be paid at double the hourly rate of wage. All hours worked on Saturday, Sundays and holidays shall be paid at double the hourly rate of pay. Rates include all members of the assigned crew.

EXCEPTION:
On all multipole structures and steel transmission lines, switching stations, regulating, capacitor stations, generating plants, industrial plants, associated installations and substations, except those substations whose primary function is to feed a distribution system, will be paid overtime under the following rates:

The first two (2) hours after eight (8) regular hours Monday through Friday of overtime on a regular workday, shall be paid at one and one-half times the hourly rate of wage. All hours in excess of ten (10) hours will be at two (2) times the hourly rate of wage. The first eight (8) hours worked on Saturday will be paid at one and one-half (1-1/2) times the hourly rate of wage. All hours worked in excess of eight (8) hours on Saturday, and all hours worked on Sundays and holidays will be at the double the hourly rate of wage.

All overtime eligible hours performed on the above described work that is energized, shall be paid at the double the hourly rate of wage.

E. The first two (2) hours after eight (8) regular hours Monday through Friday and the first eight (8) hours on Saturday shall be paid at one and one-half times the hourly rate of wage. All other hours worked Monday through Saturday, and all hours worked on Sundays and holidays shall be paid at double the hourly rate of wage.

On a four-day, ten-hour weekly schedule, either Monday thru Thursday or Tuesday thru Friday schedule, all hours worked after ten shall be paid at double the hourly rate of wage. The Monday or Friday not utilized in the normal four-day, ten hour work week, and Saturday shall be paid at one and one half (1½) times the regular shift rate for the first eight (8) hours. All other hours worked Monday through Saturday, and all hours worked on Sundays and holidays shall be paid at double the hourly rate of wage.

G. All hours worked on Saturdays shall be paid at one and one-half times the hourly rate of wage. All hours worked Monday through Saturday over twelve (12) hours and all hours worked on Sundays and holidays shall be paid at double the hourly rate of wage.

I. The First eight (8) hours worked on Saturdays shall be paid at one and one-half times the hourly rate of wage. All hours worked in excess of eight (8) per day on Saturdays shall be paid at double the hourly rate of wage. All hours worked on Sundays and holidays shall be paid at double the hourly rate of wage.

Overtime Codes Continued

4. J. The first eight (8) hours worked on a Saturday shall be paid at one and one-half times the hourly rate of wage. All hours worked in excess of eight (8) hours on a Saturday shall be paid at double the hourly rate of wage. All hours worked over twelve (12) in a day, and all hours worked on Sundays and Holidays shall be paid at double the hourly rate of wage.

K. All hours worked on a Saturday shall be paid at one and one-half times the hourly rate of wage, so long as Saturday is the sixth consecutive day worked. All hours worked over twelve (12) in a day Monday through Saturday, and all hours worked on Sundays and Holidays shall be paid at double the hourly rate of wage.

L. The first twelve (12) hours worked on a Saturday shall be paid at one and one-half times the hourly rate of wage. All hours worked on a Saturday in excess of twelve (12) hours shall be paid at double the hourly rate of pay. All hours worked over twelve (12) in a day Monday through Friday, and all hours worked on Sundays shall be paid at double the hourly rate of wage. All hours worked on a holiday shall be paid at one and one-half times the hourly rate of wage, except that all hours worked on Labor Day shall be paid at double the hourly rate of pay.

S. On a four (4) day ten (10) hour workweek scheduled Monday through Thursday, or Tuesday through Friday, work performed in excess of (10) hours shall be paid at one and one half (1-1/2) times the hourly rate of pay. On Monday through Friday, work performed outside the normal work hours of 6:00 a.m. and 6:00 p.m. shall be paid at one and one-half (1-1/2) times the straight time rate, (except for special shifts or multiple shift operations).

All hours worked on Saturdays shall be paid at one and one-half times the hourly rate of wage. All work performed on Sundays and holidays shall be paid at double the hourly rate of wage. When an employee returns to work without at least eight (8) hours time off since their previous shift, all such time shall be a continuation of shift and paid at the applicable overtime rate until such time as the employee has had a break of eight (8) hours.

Multiple Shift Operations: When the first shift of a multiple shift (a two or three shift) operation is started at the basic straight time rate or at a specific overtime rate, all shifts of that day's operation shall be completed at that rate. Special Shifts: The Special Shift Premium is the basic hourly rate of pay plus $2.00 an hour. When due to conditions beyond the control of the employer or when an owner (not acting as the contractor), a government agency or the contract specifications require more than four (4) hours of a special shift can only be performed outside the normal 6am to 6pm shift then the special shift premium will be applied to the basic straight time for the entire shift. When an employee works on a special shift, they shall be paid the special shift premium for each hour worked unless they are in overtime or double-time status. (For example, the special shift premium does not waive the overtime requirements for work performed on Saturday or Sunday).

U. The first four (4) hours after eight (8) regular hours Monday through Friday and the first twelve (12) hours on Saturday shall be paid at one and one-half times the hourly rate of wage. (Except on makeup days if work is lost due to inclement weather, then the first eight (8) hours on Saturday may be paid the regular rate.) All hours worked over twelve (12) hours Monday through Saturday, and all hours worked on Sundays and holidays shall be paid at double the hourly rate of wage.

Overtime Codes Continued

4. X. All hours worked on Saturdays shall be paid at one and one-half times the hourly rate of wage. All hours worked on Sundays and holidays shall be paid at double the hourly rate of wage. Work performed outside the normal shift of 6 am to 6pm shall be paid at one and one-half the straight time rate, (except for special shifts or three shift operations). All work performed on Sundays and holidays shall be paid at double the hourly rate of wage. Shifts may be established when considered necessary by the Employer.

   The Employer may establish shifts consisting of eight (8) or ten (10) hours of work (subject to WAC 296-127-022), that shall constitute a normal forty (40) hour work week. The Employer can change from a 5-eight to a 4-ten hour schedule or back to the other. All hours of work on these shifts shall be paid for at the straight time hourly rate. Work performed in excess of eight hours (or ten hours per day (subject to WAC 296-127-022) shall be paid at one and one-half the straight time rate.

   When due to conditions beyond the control of the Employer, or when contract specifications require that work can only be performed outside the regular day shift, then by mutual agreement a special shift may be worked at the straight time rate, eight (8) hours work for eight (8) hours pay. The starting time shall be arranged to fit such conditions of work.

   When an employee returns to work without at a break of eight (8) hours since their previous shift, all such time shall be a continuation of shift and paid at the applicable overtime rate until such time as the employee has had a break of eight (8) hours.

Overtime Codes Continued

11. ALL HOURS WORKED IN EXCESS OF EIGHT (8) HOURS PER DAY OR FORTY (40) HOURS PER WEEK SHALL BE PAID AT ONE AND ONE-HALF TIMES THE HOURLY RATE OF WAGE.

   B After an employee has worked eight (8) hours, all additional hours worked shall be paid at the applicable overtime rate until such time as the employee has had a break of eight (8) hours or more.

   C The first two (2) hours after eight (8) regular hours Monday through Friday and the first eight (8) hours on Saturday shall be paid at one and one-half times the hourly rate of wage. All other overtime hours worked, except Labor Day, and all hours on Sunday shall be paid at double the hourly rate of wage. All hours worked on Labor Day shall be paid at three times the hourly rate of wage. All non-overtime and non-holiday hours worked between 4:00 pm and 5:00 am, Monday through Friday, shall be paid at a premium rate of 15% over the hourly rate of wage.

   D. All hours worked on Saturdays and holidays shall be paid at one and one-half times the hourly rate of wage. All hours worked on Sundays shall be paid at double the hourly rate of wage.

   After an employee has worked eight (8) hours, all additional hours worked shall be paid at the applicable overtime rate until such time as the employee has had a break of eight (8) hours or more.

   E. The first two (2) hours after eight (8) regular hours Monday through Friday, the first ten (10) hours on Saturday, and the first ten (10) hours worked on Holidays shall be paid at one and one-half times the hourly rate of wage. All hours worked over ten (10) hours Monday through Saturday, and Sundays shall be paid at double the hourly rate of wage.

   After an employee has worked eight (8) hours, all additional hours worked shall be paid at the applicable overtime rate until such time as the employee has had a break of eight (8) hours or more.

Overtime Codes Continued

11. F. The first two (2) hours after eight (8) regular hours Monday through Friday and the first eight (8) hours on Saturday shall be paid at one and one-half times the hourly rate of wage. All other hours worked Monday through Saturday, and all hours worked on Sundays and holidays shall be paid at double the hourly rate of wage.

On a four-day, ten-hour weekly schedule, either Monday thru Thursday or Tuesday thru Friday schedule, all hours worked after ten shall be paid at double the hourly rate of wage. The Monday or Friday not utilized in the normal four-day, ten hour work week, and Saturday shall be paid at one-half times the hourly rate of wage for the first eight (8) hours. All other hours worked Monday through Saturday, and all hours worked on Sundays and holidays shall be paid at double the hourly rate of wage.

G. Work performed in excess of eight (8) hours of straight time per day, or ten (10) hours of straight time per day when four ten (10) hour shifts are established, or forty (40) hours of straight time per week, Monday through Friday, or outside the normal 5 am to 6pm shift, and all work on Saturdays shall be paid at one and one-half times the hourly rate of wage.

All work performed after 6:00 pm Saturday to 5:00 am Monday and Holidays, and all hours worked in excess of twelve (12) hours in a single shift shall be paid at double the hourly rate of wage.

After an employee has worked eight (8) hours at an applicable overtime rate, all additional hours shall be at the applicable overtime rate until such time as the employee has had a break of nine (9) hours or more. When an employee returns to work without at least nine (9) hours time off since their previous shift, all such time shall be a continuation of shift and paid at the applicable overtime rate until he/she shall have the nine (9) hours rest period.

H. Work performed in excess of eight (8) hours of straight time per day, or ten (10) hours of straight time per day when four ten (10) hour shifts are established, or forty (40) hours of straight time per week, Monday through Friday, or outside the normal 5 am to 6pm shift, and all work on Saturdays shall be paid at one and one-half times the hourly rate of wage.

All work performed after 6:00 pm Saturday to 5:00 am Monday and Holidays, and all hours worked in excess of twelve (12) hours in a single shift shall be paid at double the hourly rate of wage.

After an employee has worked eight (8) hours at an applicable overtime rate, all additional hours shall be at the applicable overtime rate until such time as the employee has had a break of ten (10) hours or more. When an employee returns to work without at least ten (10) hours time off since their previous shift, all such time shall be a continuation of shift and paid at the applicable overtime rate until he/she shall have the ten (10) hours rest period.

J. All hours worked on holidays shall be paid at double the hourly rate of wage.

K. On Monday through Friday hours worked outside 4:00 am and 5:00 pm, and the first two (2) hours after eight (8) hours worked shall be paid at one and one-half times the hourly rate. All hours worked over 10 hours per day Monday through Friday, and all hours worked on Saturdays, Sundays, and Holidays worked shall be paid at double the hourly rate of wage.

L. An employee working outside 5:00 am and 5:00 pm shall receive an additional two dollar ($2.00) per hour for all hours worked that shift. All hours worked on holidays shall be paid at one and one-half times the hourly rate of wage. All hours worked on holidays shall be paid at one and one-half times the hourly rate of wage.

Overtime Codes Continued

11. M. On Monday through Friday, the first four (4) hours of overtime after eight (8) hours of straight time work shall be paid at one and one half (1-1/2) times the straight time rate of pay, unless a four (4) day ten (10) hour workweek has been established. On a four (4) day ten (10) hour workweek scheduled Monday through Thursday, or Tuesday through Friday, the first two (2) hours of overtime after ten (10) hours of straight time work shall be paid at one and one half (1-1/2) times the straight time rate of pay.

Work performed outside the normal work hours of 5:00 a.m. and 6:00 p.m. shall be paid at one and one-half (1-1/2) times the straight time rate, (except for special shifts or multiple shift operations). When the first shift of a multiple shift (a two or three shift) operation is started at the basic straight time rate or at a specific overtime rate, all shifts of that day's operation shall be completed at that rate. When due to conditions beyond the control of the Employer or when contract specifications require that work can only be performed outside the regular day shift of 5:00 am to 6:00 pm, then a special shift may be worked at the straight time rate, plus the shift pay premium when applicable. The starting time of work will be arranged to fit such conditions of work. Such shift shall consist of eight (8) hours work for eight (8) hours pay or ten (10) hours work for ten (10) hours pay for four ten shifts.

On Saturday, the first twelve (12) hours of work shall be paid at one and one half (1-1/2) times the straight time rate of pay. All work performed after 6:00 pm Saturday to 5:00 am Monday, all work performed over twelve (12) hours, and all work performed on holidays shall be paid at double the straight time rate of pay.

Shift Pay Premium: In an addition to any overtime already required, all hours worked between the hours of 6:00 pm and 5:00 am shall receive an additional two dollars ($2.00) per hour.

N. All work performed over twelve hours in a shift and all work performed on Sundays and Holidays shall be paid at double the straight time rate.

Any time worked over eight (8) hours on Saturday shall be paid double the straight time rate, except employees assigned to work six 10-hour shifts per week shall be paid double the straight time rate for any time worked on Saturday over 10 hours.

O. All work performed on Saturdays, Sundays, and Holidays shall be paid at one and one half (1-1/2) times the straight time rate of pay.

Overtime Codes Continued

11. P. Work performed in excess of ten (10) hours of straight time per day when four ten (10) hour shifts are established and all work on Saturdays, except for make-up days shall be paid at time and one-half (1 ½) the straight time rate.

Work performed outside the normal work hours of 5:00 a.m. and 6:00 p.m. shall be paid at one and one-half (1-1/2) times the straight time rate, (except for special shifts or multiple shift operations). When the first shift of multiple shift (a two or three shift) operation is started at the basic straight time rate or at a specific overtime rate, all shifts of that day's operation shall be completed at that rate. When due to conditions beyond the control of the Employer or when contract specifications require that work can only be performed outside the regular day shift of 5:00 a.m. to 6:00 p.m., then a special shift may be worked at the straight time rate, plus the shift pay premium when applicable. The starting time of work will be arranged to fit such conditions of work. Such shifts shall consist of eight (8) hours work for eight (8) hours pay or ten (10) hours work for ten (10) hours pay for four ten-hour shifts.

In the event the job is down due to weather conditions, then Saturday may, be worked as a voluntary make-up day at the straight time rate. However, Saturday shall not be utilized as a make-up day when a holiday falls on Friday. All work performed on Sundays and holidays and work in excess of twelve (12) hours per day shall be paid at double (2x) the straight time rate of pay.

After an employee has worked eight (8) hours at an applicable overtime rate, all additional hours shall be at the applicable overtime rate until such time as the employee has had a break of eight (8) hours.

When an employee returns to work without a break of eight (8) hours since their previous shift, all such time shall be a continuation of shift and paid at the applicable overtime rate until such time as the employee has had a break of eight (8) hours.

Q. All hours worked between the hours of 6:00 pm and 6:00 am, Monday through Saturday, shall be paid at a premium rate of 35% over the hourly rate of wage. Work performed on Sundays shall be paid at double time. All hours worked on holidays shall be paid at double the hourly rate of wage.

R On Monday through Saturday hours worked outside 6:00 am and 7:00 pm, and all hours after eight (8) hours worked shall be paid at one and one-half times the hourly rate. All hours worked on Sundays and Holidays shall be paid at double the hourly rate of wage.

When a holiday falls on a Saturday, the Friday before shall be the observed holiday. When a holiday falls on a Sunday, the following Monday shall be the observed holiday.

S. The first ten (10) hours worked on Saturdays shall be paid at one and one-half times the hourly rate of wage. In the event the job is down due to weather conditions, or other conditions beyond the control of the Employer, then Saturday may be worked at the straight time rate, for the first eight (8) hours, or the first ten (10) hours when a four day ten hour workweek has been established.

All hours worked Monday through Saturday over twelve (12) hours and all hours worked on Sundays and holidays shall be paid at double the hourly rate of wage.

When an employee returns to work without a break of eight (8) hours since their previous shift, all such time shall be a continuation of shift and paid at the applicable overtime rate until such time as the employee has had a break of eight (8) hours.

11. T. On Monday through Friday, the first four (4) hours of overtime after eight (8) hours of straight time work shall be paid at one and one half (1-1/2) times the straight time rate of pay, unless a four (4) day ten (10) hour workweek has been established. On a four (4) day ten (10) hour workweek scheduled Monday through Thursday, or Tuesday through Friday, the first two (2) hours of overtime after ten (10) hours of straight time work shall be paid at one and one half (1-1/2) times the straight time rate of pay.

On Saturday, the first twelve (12) hours of work shall be paid at one and one half (1-1/2) times the straight time rate of pay, except that if the job is down on Monday through Friday due to weather conditions or other conditions outside the control of the employer, the first ten (10) hours on Saturday may be worked at the straight time rate of pay.

All hours worked over twelve (12) hours in a day and all hours worked on Sunday and Holidays shall be paid at two (2) times the straight time rate of pay.

U. On Monday through Friday, the first four (4) hours of overtime after eight (8) hours of straight time work shall be paid at one and one half (1-1/2) times the straight time rate of pay, unless a four (4) day ten (10) hour workweek has been established. On a four (4) day ten (10) hour workweek scheduled Monday through Thursday, or Tuesday through Friday, the first two (2) hours of overtime after ten (10) hours of straight time work shall be paid at one and one half (1-1/2) times the straight time rate of pay.

On Saturday, the first twelve (12) hours of work shall be paid at one and one half (1-1/2) times the straight time rate of pay, except that if the job is down on Monday through Friday due to weather conditions or other conditions outside the control of the employer, the first ten (10) hours on Saturday may be worked at the straight time rate of pay.

All hours worked over twelve (12) hours in a day and all hours worked on Sunday and Holidays shall be paid at two (2) times the straight time rate of pay.

If, due to conditions beyond the control of the Employer or when contract specifications require that work can only be performed outside the regular day shift, then a Special Shift may be worked, Monday through Friday, at the straight-time rate. The starting time of work for the Special Shift will be arranged to fit such conditions of work. Such Special Shift shall consist of eight (8) hours of work for eight (8) hours of pay or ten (10) hours of work for ten(10) hours of pay on a four-ten workday schedule.

Holiday Codes

5. A. Holidays: New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, Friday after Thanksgiving Day, and Christmas Day (7).

B. Holidays: New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, Friday after Thanksgiving Day, the day before Christmas, and Christmas Day (8).

C. Holidays: New Year's Day, Presidents' Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, the Friday after Thanksgiving Day, And Christmas Day (8).

D. Holidays: New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, the Friday and Saturday after Thanksgiving Day, And Christmas Day (8).

H. Holidays: New Year's Day, Memorial Day, Independence Day, Thanksgiving Day, the Day after Thanksgiving Day, And Christmas (6).

Holiday Codes Continued

5. I. Holidays: New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, and Christmas Day (6).

K. Holidays: New Year's Day, Presidents' Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, Friday After Thanksgiving Day, The Day Before Christmas, And Christmas Day (9).

L. Holidays: New Year's Day, Martin Luther King Jr. Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, Friday after Thanksgiving Day, And Christmas Day (8).

N. Holidays: New Year's Day, Presidents' Day, Memorial Day, Independence Day, Labor Day, Veterans' Day, Thanksgiving Day, The Friday After Thanksgiving Day, And Christmas Day (9).

P. Holidays: New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, Friday And Saturday After Thanksgiving Day, The Day Before Christmas, And Christmas Day (9). If A Holiday Falls On Sunday, The Following Monday Shall Be Considered As A Holiday.

Q. Paid Holidays: New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, and Christmas Day (6).

R. Paid Holidays: New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, Day After Thanksgiving Day, One-Half Day Before Christmas Day, And Christmas Day. (7 1/2).

S. Paid Holidays: New Year's Day, Presidents' Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, And Christmas Day (7).

Z. Holidays: New Year's Day, Memorial Day, Independence Day, Labor Day, Veterans Day, Thanksgiving Day, the Friday after Thanksgiving Day, And Christmas Day (8).

Holiday Codes Continued

6. G. Paid Holidays: New Year's Day, Martin Luther King Jr. Day, Presidents' Day, Memorial Day, Independence Day, Labor Day, Veterans' Day, Thanksgiving Day, the Friday after Thanksgiving Day, Christmas Day, and Christmas Eve Day (11).

H. Paid Holidays: New Year's Day, New Year's Eve Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, Friday After Thanksgiving Day, Christmas Day, The Day After Christmas, And A Floating Holiday (10).

T. Paid Holidays: New Year's Day, Presidents' Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, The Friday After Thanksgiving Day, The Last Working Day Before Christmas Day, And Christmas Day (9).

Z. Holidays: New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, Friday after Thanksgiving Day, And Christmas Day (7). If a holiday falls on Saturday, the preceding Friday shall be considered as the holiday. If a holiday falls on Sunday, the following Monday shall be considered as the holiday.

Holiday Codes Continued

7. A. Holidays: New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, the Friday and Saturday after Thanksgiving Day, And Christmas Day (8). Any Holiday Which Falls On A Sunday Shall Be Observed As A Holiday On The Following Monday. If any of the listed holidays falls on a Saturday, the preceding Friday shall be a regular work day.

B. Holidays: New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, the Friday and Saturday after Thanksgiving Day, And Christmas Day (8). Any holiday which falls on a Sunday shall be observed as a holiday on the following Monday. Any holiday which falls on a Saturday shall be observed as a holiday on the preceding Friday.

C. Holidays: New Year's Day, Martin Luther King Jr. Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, the Friday after Thanksgiving Day, And Christmas Day (8). Any holiday which falls on a Sunday shall be observed as a holiday on the following Monday. Any holiday which falls on a Saturday shall be observed as a holiday on the preceding Friday.

D. Paid Holidays: New Year's Day, Memorial Day, Independence Day, Labor Day, Veteran's Day, Thanksgiving Day, the Friday after Thanksgiving Day, And Christmas Day (8). Unpaid Holidays: President's Day. Any paid holiday which falls on a Sunday shall be observed as a holiday on the following Monday. Any paid holiday which falls on a Saturday shall be observed as a holiday on the preceding Friday.

E. Holidays: New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, the Friday after Thanksgiving Day, And Christmas Day (7). Any holiday which falls on a Sunday shall be observed as a holiday on the following Monday. Any holiday which falls on a Saturday shall be observed as a holiday on the preceding Friday.

F. Holidays: New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, the Friday after Thanksgiving Day, the last working day before Christmas day and Christmas day (8). Any holiday which falls on a Sunday shall be observed as a holiday on the following Monday. Any holiday which falls on a Saturday shall be observed as a holiday on the preceding Friday.

Holiday Codes Continued

7. G. Holidays: New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, and Christmas Day (6). Any holiday which falls on a Sunday shall be observed as a holiday on the following Monday.

H. Holidays: New Year's Day, Martin Luther King Jr. Day, Independence Day, Memorial Day, Labor Day, Thanksgiving Day, the Friday after Thanksgiving Day, the Last Working Day before Christmas Day and Christmas Day (9). Any holiday which falls on a Sunday shall be observed as a holiday on the following Monday. Any holiday which falls on a Saturday shall be observed as a holiday on the preceding Friday.

I. Holidays: New Year's Day, President's Day, Independence Day, Memorial Day, Labor Day, Thanksgiving Day, The Friday After Thanksgiving Day, The Day Before Christmas Day And Christmas Day (9). Any holiday which falls on a Sunday shall be observed as a holiday on the following Monday. Any holiday which falls on a Saturday shall be observed as a holiday on the preceding Friday.

J. Holidays: New Year's Day, Independence Day, Memorial Day, Labor Day, Thanksgiving Day and Christmas Day (6). Any holiday which falls on a Sunday shall be observed as a holiday on the following Monday. Any holiday which falls on a Saturday shall be observed as a holiday on the preceding Friday.

Holiday Codes Continued

7. K. Holidays: New Year's Day, Memorial Day, Independence Day, Thanksgiving Day, the Friday and Saturday after Thanksgiving Day, And Christmas Day (8). Any holiday which falls on a Sunday shall be observed as a holiday on the following Monday. Any holiday which falls on a Saturday shall be observed as a holiday on the preceding Friday.

L. Holidays: New Year's Day, Memorial Day, Labor Day, Independence Day, Thanksgiving Day, the Last Work Day before Christmas Day, And Christmas Day (7). Any holiday which falls on a Sunday shall be observed as a holiday on the following Monday. Any holiday which falls on a Saturday shall be observed as a holiday on the preceding Friday.

N. Holidays: New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, the Friday after Thanksgiving Day, And Christmas Day (7). Any holiday which falls on a Sunday shall be observed as a holiday on the following Monday. When Christmas falls on a Saturday, the preceding Friday shall be observed as a holiday.

P. Holidays: New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, Friday after Thanksgiving Day, And Christmas Day (7). Any holiday which falls on a Sunday shall be observed as a holiday on the following Monday.

Q. Holidays: New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, the Friday after Thanksgiving Day, the Last Working Day before Christmas Day and Christmas Day (8). Any holiday which falls on a Sunday shall be observed as a holiday on the following Monday. If any of the listed holidays falls on a Saturday, the preceding Friday shall be a regular work day.

S. Paid Holidays: New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, Friday after Thanksgiving Day, Christmas Day, the Day after Christmas, and A Floating Holiday (9). If any of the listed holidays falls on a Sunday, the day observed by the Nation shall be considered a holiday and compensated accordingly.

V. Holidays: New Year's Day, President's Birthday, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, the Friday after Thanksgiving Day, Christmas Day, the day before or after Christmas, and the day before or after New Year's Day. If any of the above listed holidays falls on a Sunday, the day observed by the Nation shall be considered a holiday and compensated accordingly.

W. Holidays: New Year's Day, Day After New Year's, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, the Friday after Thanksgiving Day, Christmas Eve Day, Christmas Day, the day after Christmas, the day before New Year's Day, and a Floating Holiday.

X. Holidays: New Year's Day, Day before or after New Year's Day, Presidents' Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, the Friday after Thanksgiving Day, Christmas Day, and the day before or after Christmas day. If a holiday falls on a Saturday or on a Friday that is the normal day off, then the holiday will be taken on the last normal workday. If the holiday falls on a Monday that is the normal day off or on a Sunday, then the holiday will be taken on the next normal workday.

Y. Holidays: New Year's Day, Presidents' Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, the Friday after Thanksgiving Day, and Christmas Day. (8) If the holiday falls on a Sunday, then the day observed by the federal government shall be considered a holiday and compensated accordingly.

Z. Holidays: New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, the Friday and Saturday after Thanksgiving Day, Christmas Eve, and Christmas Day (9). Any holiday which falls on a Saturday shall be observed as a holiday on the preceding Friday. Any holiday which falls on a Sunday shall be observed as a holiday on the following Monday.

Holiday Codes Continued

15. G. New Year's Day, Washington's Birthday, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, The Friday After Thanksgiving Day, the last scheduled workday before Christmas, and Christmas Day (9). If any of the listed holidays falls on a Sunday, the day observed by the Nation shall be considered a holiday and compensated accordingly.

H. Holidays: New Year's Day, Martin Luther King Jr. Day, Independence Day, Memorial Day, Labor Day, Thanksgiving Day, the Friday after Thanksgiving Day, the Last Working Day before Christmas Day and Christmas Day (9). Any holiday which falls on a Sunday shall be observed as a holiday on the following Monday. Any holiday which falls on a Saturday shall be observed as a holiday on the preceding Friday.

I. Holidays: New Year's Day, President's Day, Independence Day, Memorial Day, Labor Day, Thanksgiving Day, The Friday After Thanksgiving Day, The Day Before Christmas Day And Christmas Day (9). Any holiday which falls on a Sunday shall be observed as a holiday on the following Monday. Any holiday which falls on a Saturday shall be observed as a holiday on the preceding Friday.

J. Holidays: New Year's Day, Martin Luther King Jr. Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, the Friday and Saturday after Thanksgiving Day, and Christmas Day (9). Any holiday which falls on a Sunday shall be observed as a holiday on the following Monday. If any of the listed holidays falls on a Saturday, the preceding Friday shall be a regular work day.

K. Holidays: New Year's Day, Memorial Day, Independence Day, Thanksgiving Day, the Friday and Saturday after Thanksgiving Day, And Christmas Day (8). Any holiday which falls on a Sunday shall be observed as a holiday on the following Monday. Any holiday which falls on a Saturday shall be observed as a holiday on the preceding Friday.

L. Holidays: New Year's Day, Memorial Day, Independence Day, Labor Day, Veteran's Day, Thanksgiving Day, the Friday after Thanksgiving Day, and Christmas Day (8). Any holiday which falls on a Sunday shall be observed as a holiday on the following Monday. If any of the listed holidays falls on a Saturday, the preceding Friday shall be a regular work day.

M. Holidays: New Year's Day, Martin Luther King Jr. Day, Independence Day, Memorial Day, Labor Day, Thanksgiving Day, the Friday after Thanksgiving Day, Christmas Eve Day and Christmas Day (9). Any holiday which falls on a Sunday shall be observed as a holiday on the following Monday. If any of the listed holidays falls on a Saturday, the preceding Friday shall be a regular work day.

N. Holidays: New Year's Day, Memorial Day, Independence Day, Labor Day, Veteran's Day, Thanksgiving Day, the Friday after Thanksgiving Day, and Christmas Day (8). Any holiday which falls on a Sunday shall be observed as a holiday on the following Monday.

O. Holidays: New Year's Day, Martin Luther King Jr. Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, the Friday and Saturday after Thanksgiving Day, the day before Christmas day, and Christmas Day (10). Any holiday which falls on a Sunday shall be observed as a holiday on the following Monday.

Note Codes

8. D. Workers working with supplied air on hazmat projects receive an additional $1.00 per hour.

L. Workers on hazmat projects receive additional hourly premiums as follows -Level A: $0.75, Level B: $0.50, And Level C: $0.25.

M. Workers on hazmat projects receive additional hourly premiums as follows: Levels A & B: $1.00, Levels C & D: $0.50.

N. Workers on hazmat projects receive additional hourly premiums as follows -Level A: $1.00, Level B: $0.75, Level C: $0.50, And Level D: $0.25.

S. Effective August 31, 2012 – A Traffic Control Supervisor shall be present on the project whenever flagging or spotting or other traffic control labor is being utilized. Flaggers and Spotters shall be posted where shown on approved Traffic Control Plans or where directed by the Engineer. All flaggers and spotters shall possess a current flagging card issued by the State of Washington, Oregon, Montana, or Idaho. This classification is only effective on or after August 31, 2012.

T. Effective August 31, 2012 – A Traffic Control Laborer performs the setup, maintenance and removal of all temporary traffic control devices and construction signs necessary to control vehicular, bicycle, and pedestrian traffic during construction operations. Flaggers and Spotters shall be posted where shown on approved Traffic Control Plans or where directed by the Engineer. All flaggers and spotters shall possess a current flagging card issued by the State of Washington, Oregon, Montana, or Idaho. This classification is only effective on or after August 31, 2012.

U. Workers on hazmat projects receive additional hourly premiums as follows – Class A Suit: $2.00, Class B Suit: $1.50, And Class C Suit: $1.00. Workers performing underground work receive an additional $0.40 per hour for any and all work performed underground, including operating, servicing and repairing of equipment. The premium for underground work shall be paid for the entire shift worked. Workers who work suspended by a rope or cable receive an additional $0.50 per hour. The premium for work suspended shall be paid for the entire shift worked. Workers who do “pioneer” work (break open a cut, build road, etc.) more than one hundred fifty (150) feet above grade elevation receive an additional $0.50 per hour.

8. V. In addition to the hourly wage and fringe benefits, the following depth and enclosure premiums shall be paid. The premiums are to be calculated for the maximum depth and distance into an enclosure that a diver reaches in a day. The premiums are to be paid one time for the day and are not used in calculating overtime pay.

Depth premiums apply to depths of fifty feet or more. Over 50' to 100' - $2.00 per foot for each foot over 50 feet. Over 101' to 150' - $3.00 per foot for each foot over 101 feet. Over 151' to 220' - $4.00 per foot for each foot over 220 feet. Over 221' - $5.00 per foot for each foot over 221 feet.

Enclosure premiums apply when divers enter enclosures (such as pipes or tunnels) where there is no vertical ascent and is measured by the distance travelled from the entrance. 25’ to 300’ - $1.00 per foot from entrance. 300’ to 600’ - $1.50 per foot beginning at 300’. Over 600’ - $2.00 per foot beginning at 600’.

W. Meter Installers work on single phase 120/240V self-contained residential meters. The Lineman/Groundmen rates would apply to meters not fitting this description.

Note Codes Continued

X. Workers on hazmat projects receive additional hourly premiums as follows - Class A Suit: $2.00, Class B Suit: $1.50, Class C Suit: $1.00, and Class D Suit: $0.50. Special Shift Premium: Basic hourly rate plus $2.00 per hour.

When due to conditions beyond the control of the Employer or when an owner (not acting as the contractor), a government agency or the contract specifications requires that work can only be performed outside the normal 5 am to 6pm shift, then the special shift premium will be applied to the basic hourly rate. When an employee works on a special shift, they shall be paid a special shift premium for each hour worked unless they are in OT or Double-time status. (For example, the special shift premium does not waive the overtime requirements for work performed on Saturday or Sunday.)

Y. Tide Work: When employees are called out between the hours of 6:00 p.m. and 6:00 a.m. to work on tide work (work located in the tide plane) all time worked shall be at one and one-half times the hourly rate of pay.

Swinging Stage/Boatswains Chair: Employees working on a swinging state or boatswains chair or under conditions that require them to be tied off to allow their hands to be free shall receive seventy-five cents ($0.75) per hour above the classification rate.

Z. Workers working with supplied air on hazmat projects receive an additional $1.00 per hour.

Special Shift Premium: Basic hourly rate plus $2.00 per hour. When due to conditions beyond the control of the Employer or when an owner (not acting as a contractor), a government agency or the contract specifications require that more than (4) hours of a special shift can only be performed outside the normal 6 am to 6pm shift, then the special shift premium will be applied to the basic straight time for the entire shift. When an employee works on a special shift, they will be paid a special shift premium for each hour worked unless they are in overtime or double-time status. (For example, the special shift premium does not waive the overtime requirements for work performed on Saturday or Sunday.)

Note Codes Continued

9. A. Workers working with supplied air on hazmat projects receive an additional $1.00 per hour.

Special Shift Premium: Basic hourly rate plus $2.00 per hour. When due to conditions beyond the control of the Employer or when an owner (not acting as the contractor), a government agency or the contract specifications require that more than four (4) hours of a special shift can only be performed outside the normal 6 am to 6pm shift, then the special shift premium will be applied to the basic straight time for the entire shift. When an employee works on a special shift, they shall be paid a special shift premium for each hour worked unless they are in overtime or double-time status. (For example, the special shift premium does not waive the overtime requirements for work performed on Saturday or Sunday.)

Certified Crane Operator Premium: Crane operators requiring certifications shall be paid $0.50 per hour above their classification rate.

Boom Pay Premium: All cranes including tower shall be paid as follows based on boom length:

(A) – 130’ to 199’ – $0.50 per hour over their classification rate.
(B) – 200’ to 299’ – $0.80 per hour over their classification rate.
(C) – 300’ and over – $1.00 per hour over their classification rate.

Note Codes Continued

9. B. The highest pressure registered on the gauge for an accumulated time of more than fifteen (15) minutes during the shift shall be used in determining the scale paid.

Tide Work: When employees are called out between the hours of 6:00 p.m. and 6:00 a.m. to work on tide work (work located in the tide plane) all time worked shall be at one and one-half times the hourly rate of pay. Swinging Stage/Boatswains Chair: Employees working on a swinging stage or boatswains chair or under conditions that require them to be tied off to allow their hands to be free shall receive seventy-five cents ($0.75) per hour above the classification rate.

C. Tide Work: When employees are called out between the hours of 6:00 p.m. and 6:00 a.m. to work on tide work (work located in the tide plane) all time worked shall be at one and one-half times the hourly rate of pay. Swinging Stage/Boatswains Chair: Employees working on a swinging stage or boatswains chair or under conditions that require them to be tied off to allow their hands to be free shall receive seventy-five cents ($0.75) per hour above the classification rate.

Effective August 31, 2012 – A Traffic Control Supervisor shall be present on the project whenever flagging or spotting or other traffic control labor is being utilized. A Traffic Control Laborer performs the setup, maintenance and removal of all temporary traffic control devices and construction signs necessary to control vehicular, bicycle, and pedestrian traffic during construction operations. Flaggers and Spotters shall be posted where shown on approved Traffic Control Plans or where directed by the Engineer. All flaggers and spotters shall possess a current flagging card issued by the State of Washington, Oregon, Montana, or Idaho. These classifications are only effective on or after August 31, 2012.

D. Industrial Painter wages are required for painting within industrial facilities such as treatment plants, pipelines, towers, dams, bridges, power generation facilities and manufacturing facilities such as chemical plants, etc., or anywhere abrasive blasting is necessary to prepare surfaces, or hazardous materials encapsulation is required.

E. Heavy Construction includes construction, repair, alteration or additions to the production, fabrication or manufacturing portions of industrial or manufacturing plants, hydroelectric or nuclear power plants and atomic reactor construction. Workers on hazmat projects receive additional hourly premiums as follows -Level A: $1.00, Level B: $0.75, Level C: $0.50, And Level D: $0.25.

F. Industrial Painter wages are required for painting within industrial facilities such as treatment plants, pipelines, towers, dams, power generation facilities and manufacturing facilities such as chemical plants, etc., or anywhere abrasive blasting is necessary to prepare surfaces, or hazardous materials encapsulation is required.

H. One (1) person crew shall consist of a Party Chief. (Total Station or similar one (1) person survey system). Two (2) person survey party shall consist of a least a Party Chief and a Chain Person. Three (3) person survey party shall consist of at least a Party Chief, an Instrument Person, and a Chain Person.

9. I. In addition to the hourly wage and fringe benefits, the following depth and enclosure premiums shall be paid. The premiums are to be calculated for the maximum depth and distance into an enclosure that a diver reaches in a day. The premiums are to be paid one time for the day and are not used in calculating overtime pay.

Depth premiums apply to depths of fifty feet or more. Over 50' to 100' - $2.00 per foot for each foot over 50 feet. Over 101' to 150' - $3.00 per foot for each foot over 101 feet. Over 151' to 220' - $4.00 per foot for each foot over 220 feet. Over 221' - $5.00 per foot for each foot over 221 feet.

Enclosure premiums apply when divers enter enclosures (such as pipes or tunnels) where there is no vertical ascent and is measured by the distance travelled from the entrance. 25’ to 300’ - $1.00 per foot from entrance. 300’ to 600’ - $1.50 per foot beginning at 300’. Over 600’ - $2.00 per foot beginning at 600’.

Employees may be required to perform any combination of work within the Diving team/crew, (with the exception of dive Supervisor) provided they are paid at the highest rate at which he/she has worked for the shift.

L. Workers on hazmat projects receive additional hourly premiums as follows -Level A: $0.75, Level B: $0.50, And Level C: $0.25.

Tide Work: When employees are called out between the hours of 6:00 p.m. and 6:00 a.m. to work on tide work (work located in the tide plane) all time worked shall be at one and one-half times the hourly rate of pay.

Swinging Stage/Boatswains Chair: Employees working on a swinging stage or boatswains chair or under conditions that require them to be tied off to allow their hands to be free shall receive seventy-five cents ($0.75) per hour above the classification rate.

PART 1 GENERAL

1.01 SUMMARY

A. Section Includes:

1. Procedures for preparation and submittal of the Schedule of Values.

1.02 SUBMITTALS

A. Contractor shall submit an initial Schedule of Values per the Pre-Construction Submittal Requirements of Section 01 33 00.

B. Contractor shall submit supporting documentation justifying the amounts in the Schedule of Values if requested by Owner.

1.03 SCHEDULE OF VALUES

A. Contractor shall submit a typed schedule on Owner's form. Once approved, Contractor shall not revise the Schedule of Values without prior approval by Owner.

B. Format:

1. Separate each category of Work into a separate line item.
2. List all major Work activities indicated on the Progress Schedule.
3. Separate floors, phases, and other easily recognized building divisions when appropriate.
4. Separate labor, materials and equipment for each item.
5. Identify site mobilization, demobilization, bonds, and insurance as individual line items.
6. Include a line item for close-out Work between Substantial Completion and Final Completion.
7. If applicable, include a line item for allowances. For unit cost allowances, give quantities measured from the Contract Documents multiplied by the unit cost.
8. When required by Owner, include separate line items for "separately funded Work."

END OF SECTION 01 29 73

PART 1 GENERAL

1.01 SUMMARY

A. Section Includes:

1. Preconstruction Meeting;
2. Progress Meetings; and
3. Other meetings, as requested by Owner.

1.02 PRECONSTRUCTION MEETING

A. Meeting Location: Owner will schedule a meeting prior to the start of construction. The purpose of this meeting is to review Contract administration requirements and mobilization procedures. Attendance is required for the following:

1. Architect/Engineer and design Subconsultants;
2. Contractor's Superintendent and Project Manager;
3. Representative of major Subcontractors, as appropriate;
4. Others, as appropriate.

B. Owner’s Designated Representative shall:

1. Preside over and conduct meeting.
2. Record, reproduce, and distribute copies of minutes within 7 Days of the meeting to all meeting participants.

C. Agenda for the meeting will include at a minimum:

1. The Work;
2. Progress Schedule, including Work sequence, phasing, and occupancy requirements;
3. Communications chain and persons authorized to direct changes;
4. Use of the Project site;
5. Special Project procedures;
6. Procedures and processing:
    a. Application for Payments and Schedule of Values;
    b. Contract Change Proposals (CCP), Work Directive (WD);
    c. Change Orders (CO);
    d. Requests for Information (RFI);

e. Submittals; and

f. Others as appropriate.

7. Project Record;
8. Construction facilities, controls, and construction aids;
9. Temporary utilities;
10. Security procedures;
11. Safety and first-aid procedures;
12. Environmental Health and Safety;
13. Housekeeping procedures;
14. AHJ representative(s) and inspection procedures;
15. Utility shutdowns;
16. Parking;
17. Existing conditions;
18. Subcontractor list;
19. Emergency phone and keys to site;
20. Progress meeting scheduling;
21. Shipment and deliveries; and
22. Other(s) as appropriate.

1.03 PROGRESS MEETINGS

A. Progress meetings will occur as required.

B. Meeting Location: Contractor's Project field office, unless otherwise agreed.

C. Attendance: Representatives attending meetings must be qualified and authorized to act on behalf of their firms. Attendance shall include:

1. Architect/Engineer and Subconsultants, as appropriate;
2. Owner’s Designated Representatives;
3. Contractor's Superintendent and Project Manager;
4. Subcontractors, as appropriate;
5. Suppliers, as appropriate; and
6. Others, as appropriate.

D. Owner’s Designated Representative shall:

1. Administer progress and other specially scheduled meetings;

2. Record, reproduce, and distribute copies of minutes within 6 Days of meeting to all meeting participants; and

E. Contractor shall, at each meeting, provide each meeting attendant with:

1. Short-interval (look-ahead) schedule coordinated with the Progress Schedule;
2. Updated Progress Schedule, if appropriate;
3. Updated submittal log and schedules;
4. Updated RFI log;
5. Issues Log;
6. Quality Control Log; and
7. Any applicable tracking mechanisms.

F. Agenda for these meetings will include at a minimum:

1. Project safety;
2. Review and approval of minutes from previous meeting;
3. Review Work progress since previous meeting;
4. Review plans for progress for subsequent Work period and short-interval (look-ahead) schedule;
5. Review Progress Schedule;
6. Present corrective measures and procedures to regain Progress Schedule, as applicable;
7. Present field observations, problems, and conflicts;
8. Discuss RFIs;
9. Review quality control;
10. Review submittal log and schedules and present methods to expedite as required;
11. Review off-site fabrication;
12. Review delivery schedules;
13. Review coordination issues;
14. Review proposed changes for:
    a. Effect on Progress Schedule and on completion date.
    b. Effect on any other contracts of the Project.
15. Review Issues Log;
16. Review draft Application for Payment (at end of month);
17. Review Project Record; and

18. Review any other issues.

1.04 OTHER MEETINGS

A. Owner may call additional Project meetings as appropriate.

B. Meetings as required by other sections.

C. Format and agenda of these meetings will follow that of Progress Meetings unless Owner determines otherwise.

END OF SECTION 01 31 19

PART 1 GENERAL

1.01 GENERAL COMMUNICATION

A. Subcontractors: Informal communication between Owner, Owner's consultants, and other Subcontractors is permitted. If written clarification or direction is required to resolve questions, transmit questions in writing using a Request for Information (RFI) through the Contractor to Owner.

B. In case of an EMERGENCY, dial 9-1-1 if appropriate; otherwise, contact Owner's Designated Representative. If he or she is not available contact Facilities Services, Capital at 509-335-9000.

1.02 CORRESPONDENCE

A. Address all correspondence to Owner's Designated Representative.

B. Contractor shall copy Architect/Engineer on all correspondence to and from Owner.

C. Include Project title and Owner Project number on all correspondence.

1.03 REQUEST FOR INFORMATION

A. When field conditions or Contract Document require clarification, a written Request for Information (RFI) must be submitted per the following:

1. Identify the nature and location of each clarification/verification using a RFI form and provide at least the following information:
    a. Project name and number;
    b. Date;
    c. Date response requested;
    d. RFI number;
    e. Subject;
    f. Initiator of the question;
    g. Indication of costs;
    h. Indication of schedule impact;
    i. Location on site;
    j. Contract Drawing reference;
    k. Contract Specification section and paragraph reference;
    l. Descriptive text;
    m. Recommended solution(s); and

n. Space for reply on same page as questions.

B. Each RFI must be limited to a single issue, but shall reference other related RFI's.

C. Route and copy RFIs in same manner as correspondence.

D. Allow a minimum of 14 Days for Owner response to RFI.

1.04 NONCONFORMANCE REPORT

A. Reference Document: Owner Nonconformance Report (NCR).

B. Procedure: If Contractor proceeds to install deficient Work or fails to correct Work that in the opinion of Owner fails to conform to the Contract Documents, an NCR may be issued. Upon receipt of a NCR, Contractor shall take immediate action to correct nonconforming Work. Correction of nonconforming Work will be reviewed at progress meetings.

1.05 COORDINATION

A. Special Coordination: Contractor shall:

1. Coordinate with the Building Coordinator for special department requirements.

2. Utilize a backflow preventer or cross connection control device certified by Owner to safeguard the WSU water supply.

3. Note that no ID badges for Pullman, Spokane, Vancouver or Tri-Cities. However, the Contractors have to check-in with the Spokane, Vancouver, and Tri-Cities Facilities Operations to get special passes to access the buildings.

4. Follow loading dock restrictions. Parking at loading docks is not allowed. Load/Unload only is acceptable.

5. Not use access routes within the building for material deliveries and debris removal.

6. Have access to elevators for Contractor's use. Coordinate with Building Coordinator for which elevator to use.

B. General Coordination: Contractor shall:

1. Coordinate with Work of other sections to ensure that all fixtures, devices, switches, outlets, ducts, pipes, and similar items can be installed as shown without modifications to framing. Provide all blockouts, raceways and similar framing, as required;

2. Coordinate the Work and not delegate responsibility for coordination to any Subcontractor. Contractor must make available to each Subcontractor, prior to the execution of each Subcontract, copies of the Contract Documents to which the Subcontractor will be bound. Subcontractor will similarly make copies of the Contract Documents available to their respective lower-tier Subcontractors. Contractor must provide Owner copies of the written agreements between Contractor and any Subcontractor upon request;
3. Anticipate interrelationship of all Subcontractors and their relationship with the total Work;
4. Resolve differences or disputes between Subcontractors and materials suppliers concerning coordination, interference, or extent of Work between sections;
5. Be in charge of and responsible for the Work and the Project site, including directing and scheduling all Work; and
6. Cooperate with Separate Contractors. Work by others may be occurring within the building or at locations adjacent or near to the Project site. Contractor must cooperate with all such work.

C. Mechanical and Electrical Coordination: Contractor shall:

1. Resolve all “tight”, restricted, or inaccessible areas involving Work of various disciplines in advance of installation.
2. If necessary, and before Work proceeds in these areas, prepare coordination drawings for review showing all Work in “tight”, restricted, or inaccessible areas.
3. Provide coordination drawings necessary to resolve “tight”, restricted, or inaccessible areas, at no increase in Contract Sum.

D. Job Site Field Measurements and Templates: Contractor shall:

1. Obtain field measurements required for accurate fabrication and installation of Work. Exact measurements are Contractor’s responsibility.
2. Furnish or obtain templates, patterns, and setting instructions as required for installation of all Work. Contractor shall verify in field, as needed.

END OF SECTION 01 31 23

PART 1 GENERAL

1.01 SUMMARY

A. This Section specifies the administrative and procedural requirements to comply with the requirements of the General Conditions regarding preparation of Contractor's Progress Schedules, monthly update to the Progress Schedules, and other schedules as specified herein. The purposes of these schedules and reports are to:

1. Ensure adequate planning and execution of the Work by Contractor;
2. Establish a standard against which progress of the Work can be tracked;
3. Assist in monitoring progress;
4. Evaluate the impact of any changes to the Contract; and
5. Support the basis for progress payments.

B. All schedule submittals including updated Progress Schedules will be reviewed by Owner for compliance with Contract terms and the needs of the University. Review of any schedule does not constitute approval or acceptance of Contractor's construction means, methods, or sequencing, or an assessment by Owner of Contractor's ability to complete the Work within the Contract Time.

1.02 WORK INCLUDED

A. Contractor shall submit a preliminary Progress Schedule, as required by the Pre-Construction Submittal Requirements of Section 01 33 00.

B. Contractor shall prepare and submit Progress Schedules and reports as required by this Section. NOTE: Processing and payment of the second Application for Payment is contingent upon receipt, review, and subsequent acceptance of the updated Progress Schedule.

C. Contractor shall participate in monthly scheduling meetings and provide updated Progress Schedules as require by this Section.

D. Contractor shall perform Contemporaneous Period Analysis (CPA) of any delays associated with the critical path schedule as required by this Section.

E. Contractor shall provide weekly Short-Interval (look-ahead) schedules as required by this Section.

F. Contractor shall submit a Submittal Schedule as required by this Section.

1.03 PRELIMINARY PROGRESS SCHEDULE

A. Contractor shall submit a preliminary Progress Schedule as part of the Pre-

Construction Submittal Requirements in Section 01 33 00 - Submittals. The schedule shall include activity description, activity start and end dates. The schedule shall emphasize milestone dates and date of Substantial Completion. Schedule shall clearly identify the critical path schedule elements.

B. Progress Schedule shall be in Bar Chart format.

C. Schedule activities longer than 14 days shall be sufficiently detailed.

D. Participate in schedule update meetings and provide updated Progress Schedules.

1.04 CONTRACTOR'S PROGRESS SCHEDULE

A. Within three calendar days of receiving WSU comments on the preliminary Progress (Bar Chart) Schedule, the Contractor shall prepare and submit a detailed Progress (Bar Chart) Schedule. This schedule shall be the Contractor's as-planned schedule and shall be used to plan, organize, and execute the Work, record and report actual performance and progress through updates, as well as show how the Contractor plans to complete all remaining Work. The accepted Contractor's Progress (Bar Chart) Schedule and subsequent updates shall be the basis for consideration and analysis of requests for time extensions.

B. Updates:

1. The Contractor is required to prepare and submit an updated Progress (Bar Chart) Schedule as agreed upon at the Pre-construction Meeting.

2. The Contractor and Owner’s Designated Representative will review the updated schedule and will discuss any differences or issues raised. Decisions made and agreed to by all parties are binding. However, no contracted completion dates will be modified except by an approved Contract Change Proposal and subsequent Change Order.

3. Timely submission of updates is of significant and crucial importance to the management of this Project. Lack of or late receipt of updates diminishes their value to the Project. Therefore, at the Owner’s Designated Representative discretion, partial payment may be withheld for a late update as may be determined by the Owner’s Designated Representative in consideration of the value of the update at the time of receipt, the circumstances of the late submittal, and the level of progress achieved on the Project.

C. The Contractor shall submit the Progress Schedule, consisting of the reports and diagrams as specified by this subsection, in the following formats quantities:

1. Electronic PDF file of all reports, schedules, etc.

2. Native electronic copy of the CPM Progress Schedule.

D. Float: Contractor is not entitled to any adjustment in the Contract Time or the Contract Sum, or to any additional payment or equitable adjustment of any sort,

by reason of the loss or the use of any float time, including time between Contractor's anticipated completion date and the end of the Contract Time, whether or not the float time is described as such on the Progress Schedule.

E. Qualifications: Contractor shall submit the resume(s) of the person(s) designated as responsible for schedules and reports (the Contractor's scheduler) Prior to commencing construction activities. Contractor's scheduler shall have demonstrable capability to plan, coordinate, execute, and monitor a CPM schedule as required for this Project. Owner's Designated Representative will approve or disapprove the Contractor's proposed scheduler. In the event of disapproval, a new scheduler shall be proposed within 7 Days and be subject to the same consideration criteria as noted above.

1.05 MONTHLY UPDATES

A. Contractor shall prepare and submit updated Progress Schedules and participate in schedule update meetings with the Owner each month. Participation in the meeting and submission of the monthly update is a condition precedent for payment of the line item value for scheduling Work.

1. Updated monthly schedule submittals:

a. A PDF electronic version of complete Project schedule showing the critical path accompanied by a narrative of any deviations from the previous month.

b. Electronic schedule file in native format.

c. Short-interval schedules or look-ahead schedules shall not be an acceptable submittal.

B. Contractor shall prepare an update of the current Progress Schedule each month to reflect Work progress achieved since the previous update. Progress updating shall be performed without changes to the schedule logic or the original duration of activities. Monthly progress updating is required and necessary prior to performing a Contemporaneous Period Analysis of any change to the calculated completion date from the prior update.

C. Contractor may, in a second report, incorporate any logic and duration changes that represent revised planning. All such changes must be clearly identified and submitted for acceptance.

D. The Progress Schedule must clearly identify the current Substantial and Final Completion dates.

E. Contractor shall account for all adverse weather days and similar excusable noncompensable delays. By whatever method Contractor chooses to account for such delays and events, a narrative description and CPA of the accounting shall be included with the narrative report.

F. Monthly schedule update meetings:

1. Monthly schedule update meetings shall be held at Contractor's Project field office one week prior to the due date of Contractor's monthly Application for Payment, unless otherwise agreed.
2. The Contractor shall provide updated Project schedule submittals.
3. The Contractor shall also provide a narrative report including:
   a. A description of the Work accomplished during the preceding period;
   b. A discussion of the Work that had been scheduled to be performed during the previous period but was not, and explain why it was not performed; and
   c. A discussion of the Work scheduled for the upcoming period noting any issues or events that could impact this Work. If Contractor intends to make logic or original activity duration changes, the report must specifically identify such changes.
4. Contractor, Owner, and Architect/Engineer will review these reports and will discuss any differences or issues raised. No contractual completion dates will be modified except by approved Change Order.

G. Timely submission of updates is of significant and crucial importance to the Project. Owner may withhold payment as per Section 01 29 00 Applications for Payment.

1.06 THE CONTEMPORANEOUS PERIOD ANALYSIS

A. It is Owner's intent to resolve all issues affecting the Contract completion date in a timely, efficient and effective manner. To achieve this goal, and in addition to contractor's obligation to follow the contractual dispute resolution procedure, Contractor shall analyze any delays to the critical path or completion date by application of the Contemporaneous Period Analysis method. A CPA shall normally coincide with the monthly schedule update meetings.

B. Assessment of impacts due to changes or other events, in accordance with the CPA method, must be based on the most recent accepted updated Progress Schedule. No logic or duration changes shall be made to updates until progress related data has been incorporated into the Progress Schedule and the Progress Schedule is updated to reflect actual progress for the period. All data shall be provided to Owner.

C. Submission of an accurate and properly updated Progress Schedule and completion of the Contemporaneous Period Analysis are conditions precedent to the review and approval of any request for an extension in the Contract Time. Owner may assess liquidated damages, if any, regardless of the status of any requests for time extensions pending, until any such requests are resolved.

D. The process for preparing and submitting a CPA is as follows:

1. Contractor will notify Owner in writing of event(s) or occurrence(s) which constitute a delay of the critical path or completion date affecting progress of the Work.
2. Contractor shall evaluate the event(s) or occurrence(s) and produce a narrative of the resulting delay describing the effect upon concurrent or logically connected subsequent activities.
3. Consistent with the narrative, Contractor shall produce a subnet to graphically describe the event(s) or occurrence(s) and the effect upon the Progress Schedule.
4. Contractor will recalculate the Progress Schedule and provide an updated PDF and Native Progress Schedule.

E. The CPA will be reviewed at the monthly schedule update meeting or at a special meeting scheduled with Owner. At the CPA review meeting, Contractor shall present the CPA and respond to questions.

F. Until and unless substantiated delay is accepted by Owner, the time effect shall not be incorporated into any monthly update. If accepted after a monthly update in which the event(s) or occurrence(s) took place, that monthly update may be recalculated, resubmitted and shall be included in an approved Change Order.

1.07 SHORT-INTERVAL SCHEDULE

A. Prepare a weekly Short-Interval (look-ahead) Schedule based upon the Contractor's Work plan and the updated Progress Schedule.

B. Format for the Short-Interval (look-ahead) Schedule shall be acceptable to Owner. The format shall include comment annotation as necessary.

C. Content of the Short-Interval (look-ahead) Schedule shall include the Work planned for the next 3-week period and the Work that was performed in the previous week.

D. Copies of the Short-Interval (look-ahead) Schedule shall be provided at the weekly progress meetings to be used as a basis for discussion of progress and of planned Work.

1.08 SUBMITTAL SCHEDULE

A. Provide a Submittal Schedule within 10 Days of Owner’s Acceptance of the Project Schedule per Section 01 33 00 - Submittals.

PART 2 PRODUCTS

2.01 SCHEDULING SOFTWARE

A. Contractor shall utilize Microsoft Project or Primavera P6 unless otherwise agreed to by Owner.

B. Contractor shall provide a licensed and royalty pre-paid copy of the mutually agreed upon scheduling software. The selected software must be capable of performing target-to-current schedule comparisons, cost and resource loading functions and have the option of executing calculations in retained logic. Activities must be able to process lead and lag time relationships, start-to-finish or finish-to-finish relationships, and be capable of being hammocked, if required. The software must be registered with Owner and be provided in a format compatible with Owner's systems.

END OF SECTION 01 32 13

PART 1 GENERAL

1.01 SECTION INCLUDES

A. Preconstruction photography.

B. Construction photography of Work-in-progress.

1.02 GENERAL

A. Contractor shall provide photographs taken from locations coordinated with Owner.

B. Photographer: Experienced in taking construction photography.

C. Equipment: All photos shall be in digital format.

D. Video images may be acceptable for certain operations. Confirm with Owner.

PART 2 PRODUCTS

2.01 PRECONSTRUCTION PHOTOGRAPHS

A. Contractor shall provide electronic files containing photographs of the existing conditions at the site, surroundings, and haul routes per the Pre-Construction Submittal Requirements of Section 01 33 00. Coordinate with Owner the extent of the preconstruction photographic record that is required.

2.02 CONSTRUCTION PHOTOGRAPHS

A. Contractor shall provide electronic files containing photographs of construction progress on a monthly basis.

2.03 PHOTOGRAPHIC SUBMITTALS

A. Photographs shall be submitted each month during the Contract Time, or as otherwise agreed upon by Owner. The number of photographs shall be sufficient to document the site to the satisfaction of the Owner and Contractor.

B. Photographs shall be representative of Project progress, showing all major Work and any critical concealed conditions.

C. The files in each monthly photograph submittal must each be labeled with the Project name, Project number, and submittal date. Additionally, each photograph shall be dated, labeled, and accompanied by a brief description identifying the location and direction the photo was taken. Date stamp using month/date/year format.

PART 3 EXECUTION

3.01 PRECONSTRUCTION PHOTOGRAPHS

A. Coordinate the scope of preconstruction photographic record survey with Owner.

B. Take preconstruction photographs to identify and establish a baseline record of existing conditions.

C. A preconstruction photographic record survey shall include, but not be limited to, all areas that may be impacted or damaged by construction phase activities.

D. The extent or nature of the existing site and adjacent surroundings shall be thoroughly documented.

3.02 CONSTRUCTION PHOTOGRAPHS

A. Contractor shall take construction photographs each month during construction of the Project.

B. Contractor shall document concealed conditions (once exposed) that differ from expectations.

1. It is critical that Contractor photographically document concealed conditions that may benefit Owner's future maintenance and operations activities. Take photographs (with a reference point) prior to cover or concealment. For example:

    a. Underground pipe arrangements/valves/structures.

    b. Under-slab utility rough-in.

    c. Wall cavity utility routing.

    d. Above-ceiling installation after ceiling support system installed, but prior to cover.

2. The photograph record described above shall be considered minimum and shall not be deemed to limit the quantity or quality of the photographic record.

END OF SECTION 01 32 33

PART 1 GENERAL

1.01 SUMMARY

A. This section includes administrative and procedural requirements for submittals required for performance of the Work, including:

1. Pre-Construction Submittal Requirements;
2. Shop Drawings;
3. Product data;
4. Samples; and
5. Mock-ups.

B. Design-Builder shall review all construction phase submittals for compliance with WSU's standards, the contract documents, and the ensuing construction documents prior to issuance to the Owner.

1.02 SUBMITTAL PROCEDURES

A. Provide submittal schedule as required by Section 01 32 13 – Progress Schedule. The Submittal Schedule shall meet all of the requirements below.

B. Design-Builder shall provide a comprehensive submittal register for all deliverables on the project, including design submittals, construction submittals, administrative submittals, and closeout submittals. The comprehensive submittal register will be jointly reviewed by WSU and the Contractor for the purpose of agreeing whether each submittal is to be treated as: "For WSU Action", "For Information Only", "For Concurrent Action" or "For Record".

1. Action submittals requiring review by the Owner:
    a. Submittals for products, systems and equipment that deviate from those indicated in the final, approved Design-Build documents.
    b. Administrative submittals as specified elsewhere in the contract documents (i.e. bonds, insurance, management plans, logistical / site management plans, etc.)
2. Information submittals include all construction phase submittals once they have been processed through to 'approved' by the architect or engineer of record and the Contractor.
3. Concurrent action submittals include those limited submittals identified jointly as needing concurrent 'for approval' review by the architect or engineer of record and the Owner. Examples of concurrent action submittals may include those portions of the Work where Owner Furnished activities must be coordinated simultaneously with the Work (e.g. building controls, access control and door hardware, alarms, etc.).
4. Record submittals may include items such as permits, O&M documents,

warranties, closeout documentation, etc.

C. Coordination: Review of the submittals by Owner is not for the purpose of determining their accuracy and/or completeness, or for substantiating instructions for installation or performance of equipment or systems, all of which remain the responsibility of Contractor as required by the Contract Documents.

1. Owner reserves the right to withhold action on a submittal requiring coordination with other submittals until all related submittals are provided.

2. Allow at least 14 Days for review of each submittal by Owner. Complex or interrelated submittals, or the submission of multiple submittals at or near the same time, will require additional time. Provide a "priority list" when submitting multiple submittals at or near the same time. Submittal sequencing should coincide with the submittal schedule (see Section 01 32 13 – Progress Schedule).

D. Submittal Preparation: Place a permanent label or title block on each submittal for identification.

1. Include the following information on the label or title block:

a. Project name, Project number, and date;

b. Name and address of Owner;

c. Name and address of Contractor and submitting Subcontractor, if applicable;

d. Name and address of supplier and manufacturer, if applicable;

e. Number and title of appropriate Specification section; and

f. Drawing number and detail references, as appropriate.

2. Provide adequate space for action stamps to record review.

E. Submittal Transmittal: Package submittals in manageable quantities and transmit to Owner and Architect/Engineer, if applicable, simultaneously. Submittals received from sources other than Contractor will be returned without action. By submitting submittals, Contractor represents to Owner that Contractor has (1) reviewed and approved them, (2) determined and verified materials, field measurements, and field construction criteria related thereto, or will do so, and (3) checked and coordinated the information contained within each submittal with the requirements of the Work and of the Contract Documents.

1. Address one topic or related set of topics in each transmittal based upon Specification sections (i.e., mechanical items should not be submitted under same transmittal with electrical items).

2. Clearly call out relevant information, deviations, and requests for data, including minor variations from the Contract Documents on both the transmittal and all copies of a submittal.

3. Shop drawings, product data, samples, and mock-ups shall be submitted to Owner's Designated Representative for review/approval. The minimum number of submittals to be provided are:
    a. Pre-Construction, Shop Drawings, Product Data: Electronic copies.
    b. Samples: As required by the technical Specification section.
    c. Mock-ups: As required by the technical Specification section.
    d. Demonstrations: As required to facilitate installation and inspection.
    e. Reference technical Specifications for additional submittal requirements.
4. Owner may modify the required submittal quantities.

F. Material and Color Submittal: Submit samples of actual colors and/or materials.

G. Number submittals by Specification section number and revision letter.

H. In the event of the need to "revise and resubmit" a submittal, resubmit same in acceptable form/content, clearly identifying deviations from the previous rejected submittal. Contractor shall also keep accurate records of the receipt, review, and delivery of all submittals and shall submit to Owner, as requested, status reports.

I. Provide a final electronic copy of all approved submittals.

1.03 PRE-CONSTRUCTION SUBMITTAL REQUIREMENTS

A. All Pre-Construction Submittals are required before onsite construction activities may commence. Contractor shall submit the following Pre-Construction Submittals within 14 days of Notice to Proceed. Submittal review for these items only shall be supplied within 14 days of receipt by Owner.

1. Indoor Air Quality Management Plan
2. Site Safety and Health Plan (for information only)
3. Quality Control / Quality Assurance Plan
4. Waste Management Plan
5. Progress Schedule
6. Schedule of Values
7. Pre-Construction Photographs
8. Emergency Points of Contact
9. List of Subs and Suppliers
10. SWPP (Storm Water Pollution Prevention Plan)

11. Demolition Plan
12. Asbestos Safety Plan
13. List of Long Lead Items

1.04 SHOP DRAWINGS

A. Submit Shop Drawings drawn to accurate scale. Do not reproduce Contract Documents or copy standard information for use as Shop Drawings. Standard information prepared without specific references to the Project will not be accepted as a Shop Drawing.

B. Shop Drawings Include: fabrication and installation drawings, setting diagrams, schedules, patterns, templates, and similar drawings. Include the following information:

1. Dimensions;
2. Products and materials;
3. Compliance with specified standards;
4. Coordination requirements;
5. Notation of dimensions established by field measurements;
6. Any deviation from Drawings or Specifications; and
7. Date when review is requested to maintain Progress Schedule.

C. Coordination Drawings: Not Used

1.05 PRODUCT DATA

A. Product data includes: Manufacturer's printed installation instructions, catalog cuts, standard color charts, rough-in diagrams and templates, standard wiring diagrams, and performance curves.

1. Where product data must be specially prepared because standard printed data is not suitable, the submittal must be provided as a Shop Drawing.

B. Requirements: Mark each copy to show applicable options. Include the following information:

1. Manufacturer's printed recommendations;
2. Compliance with recognized trade-association standards;
3. Compliance with recognized testing-agency standards;
4. Application of testing-agency labels and seals;

5. Notation of dimensions verified by field measurement;
6. Notation of coordination requirements;
7. Any deviation from Drawings or Specifications; and
8. Date when review requested to maintain Progress Schedule.

1.06 SAMPLES AND MOCK-UPS

A. Submit samples and mock-ups that are identical to the material or product proposed. Samples include partial sections of components, cuts or containers of materials, color range sets, and swatches showing color, texture and pattern.

1. Package samples to facilitate review. Include the following:

a. Generic description of the sample;
b. Source;
c. Product name or name of manufacturer;
d. Compliance with recognized standards;
e. Availability and delivery time; and
f. Specification section.

B. Requirements: Submit samples and mock-ups for review of kind, color, pattern, and texture for a comparison of these characteristics before actual installation.

1. Where variation in color, pattern, texture or other characteristics are inherent in the material, submit not less than four units to show limits of variation.

C. Submittals: Where samples are for selection of appearance from a range of standard choices, submit a full set of choices for the material or products.

D. Maintain sets of approved samples and mock-ups at the Project site for quality comparisons throughout the course of construction.

E. Demolish and remove all samples and mock-ups prior to Substantial Completion but not sooner than directed by Owner.

1.07 OWNER's ACTION

A. Review: Except for submittals for information or a similar purpose, Owner will review each submittal, mark to indicate action taken, and return promptly.

B. Owner approval of submittals does not supersede or alter Contract Document requirements.

END OF SECTION 01 33 00

PART 1 GENERAL

1.01 SUMMARY

A. This Section includes the administrative and procedural requirements for any general alterations to be performed during the Project, including but not limited to products, transition and adjustments, cutting, patching, and repair and cleaning.

1.02 SUBMITTALS

A. Contractor shall submit a written request in advance of cutting or alteration that impacts:

1. Structural integrity of any element of Project.
2. Integrity of weather-exposed or moisture-resistant elements.
3. Efficiency, maintenance, or safety of any operational elements.
4. Visual qualities of sight exposed elements.
5. Work of Owner or a separate contractor.

B. Contractor must include in its written request, when required:

1. Identification of Project.
2. Location and description of affected Work.
3. Necessity for cutting or alteration.
4. Description of proposed Work and products to be used.
5. Alternatives to cutting and patching.
6. Effect on Work of Owner or separate contractor.
7. Written permission of affected separate contractor.
8. Date and time Work will be executed.

1.03 QUALITY ASSURANCE

A. Limits of Work:

1. Contractor shall maintain existing building structure (including structural floor and roof decking) and envelope (exterior skin and framing, excluding window assemblies and nonstructural roofing material) not indicated to be removed; do not cut such existing conditions beyond indicated limits.
2. Contractor shall maintain existing interior nonstructural elements (interior walls, doors, floor coverings, and ceiling systems) not indicated to be removed; do not cut such existing conditions beyond indicated limits.
3. Contractor shall maintain existing nonshell, nonstructural components (walls, flooring, and ceilings) not indicated to be removed; do not cut such

existing conditions beyond indicated limits.

B. Structural Elements: Do not cut and patch structural elements in a manner that could change their load-carrying capacity or load-deflection ratio.

C. Operational Elements: Do not cut and patch operating elements and related components in a manner that results in reducing their capacity to perform as intended or that results in increased maintenance or decreased operational life or safety. Operating elements include the following:

1. Primary operational systems and equipment.
2. Air or smoke barriers.
3. Fire-suppression systems.
4. Mechanical systems piping and ducts.
5. Control systems.
6. Communication systems.
7. Conveying systems.
8. Electrical wiring systems.
9. All low voltage systems.
10. Operating systems of special construction in Division 13.
11. Other operating systems as appropriate.

D. Miscellaneous Elements: Do not cut and patch miscellaneous elements or related components in a manner that could change their load-carrying capacity, that results in reducing their capacity to perform as intended that result in increased maintenance or decreased operational life or void of warranty, or could adversely affect safety. Miscellaneous elements include the following:

1. Water, moisture, or vapor barriers.
2. Firestopping or fire barriers.
3. Membranes and flashings.
4. Exterior curtain-wall construction.
5. Equipment supports.
6. Piping, ductwork, vessels, and equipment.
7. Noise and vibration-control elements and systems.
8. Other miscellaneous systems as appropriate.

E. Visual Requirements: Do not cut and patch construction in a manner that results in visual evidence of cutting and patching. Do not cut and patch exterior conditions or in occupied spaces in a manner that would, in Owner's opinion, reduce the building's aesthetic qualities. Contractor shall remove and replace

conditions that have been cut and patched in a visually unsatisfactory manner.

PART 2 PRODUCTS

2.01 PRODUCTS FOR PATCHING AND EXTENDING WORK

A. New Materials: Match existing products and Work when patching and extending Work.

B. Type and Quality of Existing Products: Determine by inspection and testing products where necessary; refer to existing Work as a standard.

PART 3 EXECUTION

3.01 EXAMINATION

A. Contractor shall, before starting each portion of the Work, carefully study and compare the various Contract Documents related to that portion of the Work, as well as other information available to Contractor, take field measurements, and inspect any existing conditions, including elements subject to damage or movement during cutting and patching.

B. After uncovering existing Work, inspect conditions affecting performance of Work.

C. By beginning any cutting or patching, Contractor represents and warrants its acceptance of existing conditions.

D. Contractor shall verify that demolition is complete and areas are ready for installation of new Work.

3.02 PREPARATION

A. Contractor shall cut, move, or remove items as necessary for access to alterations and renovation Work. Replace and restore at completion.

B. Contractor shall remove unsuitable material not marked for salvage, such as rotted wood, corroded metals, deteriorated masonry, concrete, and disturbed subgrade material. Replace materials as specified for finished Work.

C. Contractor shall remove debris and abandoned items from area and from concealed spaces.

D. Contractor shall prepare surface and remove surface finishes to provide for proper installation of new Work and finishes.

E. Contractor shall close openings in exterior surfaces to protect existing Work. Contractor shall insulate ductwork and piping to prevent moisture and

condensation in exposed areas.

F. Contractor shall provide temporary supports to ensure structural integrity of the Work. Provide devices and methods to protect Work from damage.

3.03 PERFORMANCE

A. Contractor shall coordinate alterations and renovations to expedite completion of the Work.

B. Remove, cut, and patch Work in a manner to minimize damage. Provide a means of restoring products and finishes to their original or specified condition.

C. Refinish remaining existing surfaces in renovated rooms and spaces, to specified condition for each material, with a neat and clean transition to adjacent finishes.

D. In addition to specified replacement of equipment and fixtures, restore existing plumbing, heating, ventilation, air conditioning, and electrical systems to full original operational condition.

E. Install products as specified in individual sections.

F. Remove samples of installed Work for testing when requested.

G. Provide openings in the Work for penetration of mechanical and electrical Work.

H. Cut rigid materials using the appropriate equipment and tool. Pneumatic tools not allowed without prior approval.

1. Concrete Walls: Saw-cut walls using accurately located straight lines, unless directed otherwise. Minimize overcuts.
2. Masonry Walls: Saw-cut along mortar joints, cutting block uniformly in accurately located straight lines, unless otherwise directed. Remove all mortar adhering to edges. Overcuts not allowed.
3. Wood Framed Walls: Demolish plaster or gypsum wallboard, removing wall framing only as required. Cut wall finish materials in straight uniform lines.
4. Concrete Floors: Saw-cut floors and remove. Core drill as required.

I. Restore Work with new products in accordance with requirements of Contract Documents.

J. Fit Work to existing pipes, sleeves, ducts, conduit, and other penetrations through surfaces, while maintaining assemblies.

K. At penetrations of fire rated walls, partitions, ceilings, or floors, completely seal voids with firestopping material to full thickness of the penetrated element, while maintaining assemblies.

L. Cleaning: Clean areas and spaces where cutting and patching are performed. Completely remove paint, mortar, oils, putty, and similar materials.

END OF SECTION 01 35 16

PART 1 GENERAL

1.01 SECTION INCLUDES

A. Requirements pertaining to regulatory requirements.

B. List of regulatory requirements.

1.02 CONTRACTOR RESPONSIBILITY

A. Contractor is solely responsible for compliance with all codes, laws, or regulatory requirements.

B. Inspections performed or not performed by the Authority Having Jurisdiction, Labor and Industries, Owner, Owner Designated Representative, or others who are under contract to Owner do not waive or change Contractor's obligations, nor do such inspections constitute approval or acceptance of portions of the Work.

1.03 CONTRACTOR REQUIREMENTS

A. Contractor shall perform the Work in accordance with the requirements of governing agencies and applicable regulatory requirements, including those included in this Section and elsewhere in the Contract Documents. Contractor must comply with all applicable laws, building codes, regulations, and rules, including, when applicable, the Washington State University campus code.

B. Contractor shall schedule and coordinate inspections and gain approvals required by the Authority Having Jurisdiction and other governing agencies in a timely manner and as required for Owner occupancy of the Project within the Contract Time.

C. Contractor shall inform the Authority Having Jurisdiction Building and Fire Departments, Labor and Industries, and other governing agencies of changes in the Work affecting regulatory requirements in a timely manner.

D. Contractor shall promptly forward to Owner all inspection reports, orders, permits, and other directives and correspondence received from the Authority Having Jurisdiction inspectors or other governing agencies having jurisdiction over the Work.

E. Contractor shall promptly notify Owner when the Contract Documents appear to be in conflict with Regulatory Requirements.

F. Contractor shall, at all times, use its best efforts and exercise its judgment as an experienced contractor to adopt and implement policies and practices designed to avoid work stoppages, slowdowns, disputes, or strikes where reasonably possible and practical under the circumstances, and shall, at all times, maintain Project-wide labor harmony.

1.04 REGULATORY REQUIREMENTS

A. Authority Having Jurisdiction (AHJ) shall be the organization, office, or individual responsible for enforcing the requirements of the applicable code(s) or standard(s), and or for approving equipment, materials, installation(s), or procedure(s).

B. Regulatory authorities establish minimum requirement levels. Where provisions of the Contract Documents and regulatory requirements differ or conflict, the more stringent requirement governs.

C. Regulatory requirements added by other sections of the Contract Documents or otherwise applicable are binding upon the Work in accordance with the provisions of this Section. The regulatory-requirements list provided below is intended to assist Contractor in determining the regulatory requirements for the Project, but neither the inclusion nor omission of any item from the list shall be construed to relieve Contractor of obligations that otherwise exist under the law or the Contract.

1.05 LIST OF REGULATORY REQUIREMENTS

A. International Building Code (IBC), current adopted edition.

B. International Fire Code (IFC), current adopted edition.

C. National Fire Protection Association (NFPA) Codes.

D. American Society of Mechanical Engineers (ASME), ASME A17.1 Safety Code for Elevators and Escalators, current adopted edition.

E. Washington State Ventilation and Indoor Air Quality Code, WAC 51-13.

F. Washington State Energy Code, WAC 51-11C. Shortened

1.06 PERMITS REQUIRED

A. Contractor shall obtain and pay for all required building permits, including any renewals. Contractor shall identify costs for permits on the Schedule of Values for permits obtained.

B. All trade permits (e.g. electrical, pressure vessel, elevator, etc.) must be included in each Subcontractor bid.

1.07 APPRENTICESHIP REQUIREMENTS

A. Pursuant to RCW 39.04.320, if the Contact Sum exceeds one million dollars no less than fifteen percent of the Labor Hours must be performed by apprentices, unless a different amount is permitted or otherwise required by law.

B. Apprentice hours shall be performed by participants in training programs approved by the Washington State Apprenticeship Council.

C. "Labor hours" means the total hours of workers receiving an hourly wage who are directly employed on the site of the public works project. "Labor hours" includes hours performed by workers employed by Contractor and all Subcontractors working on the Project. "Labor hours" does not include hours worked by foremen, superintendents, owners, and workers who are not subject to prevailing wage requirements of RCW 39.12.

D. During the term of this Contract, the Owner may adjust the apprentice labor hour requirement upon its finding or determination that includes:

1. A demonstration of lack of availability of apprentices in the geographic area of the Project;

2. A disproportionately high ratio of material costs to labor hours that does not make feasible the required minimum levels of apprentice participation;

3. Demonstration by participating contractors of a good faith effort to comply with the requirements of RCW 39.04.300, RCW 39.04.310, and RCW 39.04.320;

4. Small contractors or subcontractors (e.g., small or emerging businesses) would be forced to displace regularly employed members of their workforce;

5. The reasonable and necessary requirements of the Contract render apprentice utilization infeasible at the required level (e.g., the number of skilled workers required and/or limitations on the time available to perform the Work preclude utilization of apprentices); or

6. Other criteria the Owner deems appropriate, which are subject to review by the office of the Governor.

E. Contractor shall report apprentice participation to the Owner monthly via the LnI Contractor's Portal. In addition, copies of certified payroll records may be requested to document the goal.

F. Contractors and subcontractors may not be required to exceed the apprenticeship utilization requirements of RCW 39.04.320.

END OF SECTION 01 41 00

PART 1 GENERAL

1.01 SUMMARY

A. Conduct portions of the Work requiring special procedures due to hazardous materials and conditions in accordance with regulatory standards and guidance provided in this Section.

1.02 SUBMITTALS

A. Contractor shall deliver a current copy of its site specific Health and Safety Plan to the Owner per the Pre-Construction Submittal Requirements of Section 01 33 00. The submittal must include each Subcontractor's site specific Health and Safety Plan. Submittal to Owner is for information only, not for review, acceptance, or approval of the Health and Safety Plan, nor for analysis of content or completeness.

1.03 QUALIFICATIONS OF HEALTH AND SAFETY PERSONNEL

A. Contractor shall employ a competent person for each hazardous construction task in accordance with the requirements of WAC 296-155.

B. Contractor shall submit to Owner the names of its employees performing duties as competent persons, as well as the names of Subcontractor employees performing duties as competent persons.

1.04 HAZARDOUS MATERIALS MANAGEMENT

A. Dangerous Waste Management:

1. Contractor agrees and acknowledges that:

   a. Contractor has direct and exclusive control over the Work and operations at the Project site and is responsible for any Contractor generated, created, or disturbed Washington State dangerous waste and its collection, labeling, accumulation, transportation, and disposal. Owner's EH&S department will provide assistance to Contractor upon request, and will coordinate transportation and disposal of Project-generated Washington State dangerous waste.

   b. Contractor must provide Owner immediate notification of any pre-existing unanticipated Washington State dangerous waste or site contamination.

2. Contractor is responsible for securing its own waste generator identification number, and Contractor shall sign all manifests associated with the Contractor-generated waste.

   a. Contractor shall obtain an EPA/State ID number in accordance with WAC 173-303-360 before conducting activities generating chemical waste designated as Washington State dangerous waste.

b. Contractor shall cancel the EPA/State ID number when:

1) All activities generating or managing waste have ceased;

2) All regulated wastes have been removed from the Project site under proper manifests, and all site contamination is remediated; and

3) All annual dangerous-waste reporting requirements are complete.

c. Contractor may call the Washington State Department of Ecology (DOE) to request a reporting package for early submittal.

d. Contractor shall furnish to Owner's EH&S Department, Pullman, WA, within 3 Days from submittal or receipt, copies of the following documents:

1) Form 2 Notification of Dangerous Waste Activities;

2) All signed Uniform Hazardous Waste Manifests (original copy when shipping wastes and copy returned from the treatment, storage, disposal, or recycling facility), Land Disposal Restriction Notification forms, Certificates of Recycling/Disposal/Destruction, and Exception Reports;

3) All Annual Reports; and

4) All correspondence from the DOE.

3. Owner remains responsible for Washington State dangerous waste and site contamination: (1) pre-existing Contractor's activities at the site, (2) not listed in the Contract Documents, and (3) not disturbed by Contractor through improper construction activities.

4. For waste identified in contract document and for unanticipated Washington State dangerous waste or site contamination discovered during the course of the Work on the site, Contractor shall:

a. Collect, containerize, and accumulate all Washington State dangerous waste or site contamination in accordance with applicable Federal, State, and local regulations.

b. Coordinate all transportation and disposal activities through Owner's EH&S department, who will utilize the Washington State Hazardous Waste Disposal Services contract or equivalent pre-approved contractor. Owner's disposal contractor shall complete all applicable dangerous waste shipping papers including all Uniform Hazardous Waste Manifests, Land Disposal Restriction Notification forms, profiles and barrel packing lists.

B. Hazardous Materials Spills and Releases:

1. Contractor and Subcontractor(s) shall immediately report all hazardous materials spills at the Project site to Owner. If a hazardous material spill occurs at a Project site in Whitman County, and if any individual may be affected by the spill, Contractor and/or Subcontractor(s) must immediately

report the spill to Whitcom (emergency dispatch). In other counties, Contractor and Subcontractor(s) must report spills to the appropriate emergency response agency in that area.

2. Contractor shall be responsible for spill containment, cleanup, decontamination, post-cleanup monitoring, disposal of any wastes generated from cleanup activities, and generation of any reports required by regulatory agencies and/or regulations including, but not limited to, WAC 173-303 and WAC 173-340.

C. Spill Prevention Control and Countermeasures:

1. Owner's EH&S department is responsible for Owner's SPCC Plan. Any of Contractor's on-site activities involving the handling and/or storage of materials meeting the definition of oil per 40 CFR 112 in containers and/or equipment with a capacity greater than 42 gallons must be included in the Owner's SPCC Plan. Contractor shall provide Owner's EH&S department with an inventory of this equipment or containers at least 14 Days prior to the equipment or containers being brought to the Project site.

2. Contractor shall provide and utilize secondary containment for containers and tanks of oil with a capacity greater than 42 gallons. Owner may waive this requirement in its sole discretion upon Contractor's request after Owner reviews Contractor's written explanation as to why secondary containment is unnecessary for a particular container or tank.

D. Asbestos:

1. All Contractor employees involved in excavation or demolition shall be asbestos awareness trained. Contractor shall submit to Owner the name of Contractor's competent trainer, the names of each of Contractor's trained personnel, and the date of each training. Contractor's submittal must also state that the training was conducted for asbestos awareness for the Work.

2. All asbestos abatement Work shall be performed by persons trained in Washington State-approved courses and certified by the State of Washington.

3. All asbestos abatement Work performed shall be overseen by a consultant hired by the Owner to ensure the Work meets regulatory standards and Owner requirements.

4. All asbestos cement pipe Work shall be performed by persons trained in an asbestos cement pipe procedures course whose content is reviewed and approved by the Washington State Department of Labor and Industries, per WAC 296-62-07722(3)(ii)(C).

5. If suspected asbestos-containing material is discovered during Contractor's execution of the Work, and abatement of the material is not a requirement of the Contract, Contractor shall suspend any Work that affects the material and immediately notify Owner. Contractor shall safeguard the area to prevent entry until certified personnel determine

whether the material is non-asbestos containing or the material is abated, at which time the Work in that area may resume.

E. Lead:

1. Owner shall inform Contractor of lead-containing coatings and materials that the Contractor may encounter while performing the Work. These materials or coatings may release lead into the air, soil, or water, or may be a source of contamination due to skin contact. Owner shall provide general data about the percentage of lead content of each suspected lead-containing material or coating and/or provide Contractor with data showing the amount of lead per surface area.
2. Contractor is responsible for protecting its employees from lead exposure, as required by Washington law.
3. Contractor shall manage all paint chips, building components, soil, and/or other material considered by Owner to be dangerous waste according to the Dangerous Waste Management paragraph.

F. Polychlorinated Biphenyls:

1. Owner may survey oil-filled equipment prior to commencement of construction. This equipment includes, but is not limited to, transformers, electrical switches, hydraulic elevators, emergency generators, capacitors and light ballasts. Owner's survey shall usually determine if the equipment is filled with oil containing polychlorinated biphenyl (PCB). Owner shall remove, or arrange for the removal of, any equipment that contains oil in concentrations qualifying the equipment as dangerous waste per WAC 173-303.
2. If oil-filled equipment is discovered during Contractor's execution of the Work, Contractor shall suspend any Work that may affect the equipment and immediately notify Owner. Owner shall test the equipment and determine the appropriate management method for the equipment and the oil it contains.

G. Mercury:

1. Owner may survey all equipment suspected of containing mercury prior to commencement of construction. This equipment includes, but is not limited to, switches and thermostats. Owner's survey shall determine if the equipment contains mercury. Owner shall remove, or arrange for the removal of, any such equipment.
2. If mercury-containing equipment is discovered during Contractor's execution of the Work, Contractor shall suspend any Work that may affect the equipment and immediately notify Owner. Owner shall test the equipment and determine the appropriate management method for the equipment and the mercury it contains.

H. Hazardous Materials or Equipment:

1. Fixed equipment such as fume hoods, safety cabinets, and vacuum systems, and related ductwork, fans, and appurtenances, may contain or be contaminated with hazardous materials. Owner may test this equipment to determine what, if any, hazards are present. If equipment contains a hazard, or if the equipment itself is a dangerous waste, Owner shall inform Contractor of the nature of the hazard including any information necessary for Contractor to protect its workers. If the equipment is a dangerous waste, Contractor shall dispose of, or make arrangements for the disposal of, the equipment per the above Dangerous Waste Management paragraph.

I. Underground Storage Tanks (USTs): Not Used

J. Department of Homeland Security (DHS) Chemicals of Interest (COI): Not Used

1.05 WATER AND STORMWATER POLLUTION PREVENTION: NOT USED

1.06 AIR POLLUTION

A. Contractor shall comply with all provisions of the Owner's Air Operating Permit, WAC 173-400 and WAC 173-401 requirements as applicable.

B. Contractor shall control pollutants, such as diesel emissions, chemical emissions, and dust generated by the Project, so that pollutants do not adversely impact the Project site or the surrounding-area air quality.

C. Contractor shall submit to Owner within 30 Days of the Notice to Proceed a list of any stationary air emission-generating equipment included in the Work, such as: fuel-powered electrical generators, internal combustion engines, boilers, paint booths, CFC-containing equipment, or other regulated emission sources. Contractor shall assist Owner in the preparation of necessary permit applications, and Owner shall obtain necessary permits. Contractor shall abide by any conditions or requirements of permits.

D. Per WAC 173-400, Contractor shall mitigate all fugitive emissions (such as dust, vehicle exhausts, and other emissions that do not pass through a stack, chimney, or vent) generated by the Work. Contractor shall mitigate dust at the Project site throughout the entire duration of the Work. Dust mitigation may include application of specific chemical compounds approved by Owner, or may be accomplished with intermittent watering and sprinkling at such a frequency as will satisfactorily settle dust (excluding paved surfaces). Paved surfaces shall be cleaned mechanically without the discharge of water or chemicals to storm drains and/or surface waters. Under no circumstances shall Contractor permit dust mitigation cause soil erosion or pollution of surface waters.

E. No materials shall be burned without required permits. If permitted burning is done, odors shall be minimized in accordance with the Owner's Air Operating Permit.

F. CFCs (chlorofluorocarbons) or HCFCs (hydrochlorofluorocarbons) are not permitted as refrigerants in new or renovation projects. New permanently installed refrigeration equipment, such as chillers, temperature controlled chambers, air conditioning equipment, compressors, etc., must contain HFC (hydrofluorocarbon) refrigerants only (i.e., R-134A, R-404A, or R-507). At the completion of the Project, Contractor must provide detailed documentation to Owner about the refrigeration equipment installed, including identifying markings, capacity, and type of refrigerant. Refrigerant must be installed only by persons certified to do so.

G. Indoor Air Quality:

1. Owner shall notify Contractor of the location of fresh air supply intakes for buildings in the immediate area of the Work, and of fresh air supply intakes for buildings that may be affected by emissions from Contractor operations.
2. Contractor shall notify Owner 3 Days prior to commencing Work in which Contractor must operate vehicles or equipment in areas where fresh air supply intakes are located.
3. Contractor shall notify Owner 3 Days prior to commencing Work in which Contractor will be using solvents or other volatile chemicals, or processes which emit fumes, smoke, or strong odors that may affect fresh air supply intakes, or may enter Owner's buildings through doorways or windows.
4. Contractor shall not allow its activities that emit vapors, fumes, smoke or strong odors to negatively affect fresh air supply intakes.
5. If air releases of hazardous chemicals must occur, Contractor shall submit no later than 30 Days after the Notice to Proceed a chemical release plan detailing how such incidents may adversely affect Owner. Such a plan shall also specify protection to be provided to the employees of Owner and Contractor actions required to minimize chemical overexposure.
6. During welding activity, Contractor shall confine fumes to the Project site, and the fumes must not adversely affect Owner's employees or students.

1.07 PUBLIC HEALTH

A. Solid Waste Disposal:

1. Contractor shall legally dispose of or recycle all solid waste at an off-site location. Contractor shall not burn, dump, or bury waste materials, debris, or rubbish on Owner property. Contractor shall clean the Project site at the end of each work shift. Contractor is liable for any and all

damage resulting from improper waste handling and disposal (see Section 07 74 19 - Construction Waste Management).

B. Environmental Noise:

1. Per WAC 173-60, and applicable local requirements, Contractor shall not exceed maximum permissible environmental noise levels for the duration of the Work.

C. General Sanitation:

1. Per WAC 246-203, Contractor shall supply adequate water for drinking and hand washing purposes. The use of common drinking cups or towels is prohibited. For hand washing purposes, Contractor shall supply hot running water, soap, disposable towels, and a waste receptacle.

D. Drinking Water Protection:

1. Per WAC 246-290 and 246-291, Contractor shall protect all public water supplies. No portion of a public water system containing potable water shall be put into service nor shall service be resumed until the facility has been effectively disinfected and a satisfactory bacteriological sample has been obtained from a DOE-certified laboratory. Results of sampling shall be sent to Owner. The procedure used for disinfection shall conform to current standards of the American Water Works Association.
2. A minimum sanitary control area around all wells shall be maintained at all times. The sanitary control area shall extend at least 100 feet from any well. No source of contamination may be constructed, stored, disposed or applied within the sanitary control area.
3. If wells are being constructed or abandoned, Owner shall procure the appropriate water rights and construction permits per WAC 173-160. Owner shall provide copies of these documents to Contractor. Wells shall be constructed/abandoned properly by a licensed well driller. Contractor shall submit a plan to Owner detailing how all disinfection shall be accomplished.
4. Backflow Prevention:
    a. Any connection made by Contractor to Owner's drinking water system, including connection to a fire hydrant, must be made through a backflow prevention assembly approved by a Washington State certified cross connection control specialist (CCS) engaged by Owner and inspected and tested by a Washington State certified backflow assembly tester (BAT).
    b. Contractor shall label all non-potable water outlets, in a manner acceptable to the Owner, "Non-potable Water / Do Not Drink".

E. Vector Control: Not Used

F. On-Site Sewage Disposal: Not Used

G. Water Recreation Facilities: Not Used

H. Food Service Facilities: Not Used

1.08 OCCUPATIONAL HAZARD MANAGEMENT

A. Chemical Hazard Communication:

1. If any hazardous chemicals will be used in the Work or present at the Project site, copies of applicable Material Safety Data Sheets (MSDS) shall be made immediately available to Owner prior to use by Contractor and during any use of the hazardous chemicals in the Work.

2. If the use or presence of hazardous chemicals at the Project site may affect the health of individuals outside the Project site, Contractor shall submit a written plan to Owner at least 30 Days prior to such use or presence detailing how Owner can avoid exposure to the products. Contractor shall submit MSDS / SDS to Owner for any hazardous chemical to which persons outside the project site may be exposed. The exposure avoidance plan shall also specify actions that should be taken if inadvertent exposure occurs. Owner shall provide Contractor with a written plan detailing how Contractor employees can avoid exposure to hazardous chemicals used by Owner that may impact the Project site, and shall specify actions which should be taken if inadvertent exposure occurs. Owner shall submit MSDS / SDS to Contractor for any hazardous chemical to which persons inside the project site may be exposed.

B. Lock-Out/Tag-Out:

1. When Owner and Contractor are to be engaged in coordinated activities requiring the control of hazardous energy, Owner and Contractor shall inform each other of their respective lock-out or tag-out procedures.

C. Confined Space:

1. When Contractor employees are to enter permit-required confined spaces, Owner shall:

a. Inform Contractor that the Project site contains permit required spaces and that permit-space entry is allowed only through compliance with a confined-space program meeting WAC 296-809.

b. Inform Contractor of hazards that have been identified.

c. Coordinate entry operations with Contractor when both Owner and Contractor personnel will be working in or near permit spaces.

d. Debrief Contractor at the conclusion of the entry operations regarding any hazards confronted or created in permit spaces during entry operations.

END OF SECTION 01 41 19

PART 1 GENERAL

1.01 SUMMARY

A. Contractor shall perform all Work in a skillful and workmanlike manner. Materials and equipment furnished by Contract and any Subcontractor(s) must be of good quality and new unless the Contract Documents require or permit otherwise. Materials shall conform to the manufacturer's standards in effect at the date of execution of the Contractor and shall be installed in accordance with the manufacturer's instructions, specifications, and directions. Contractor shall, if requested by Owner, furnish satisfactory evidence regarding the kind and quality of any materials identifying thereon the source, and warranting their quality and compliance with the Contract Documents.

B. Section includes:

1. Contractor's Quality Control Program;
2. Field samples;
3. Mock-ups;
4. Manufacturer's instructions;
5. Manufacturer's field services;
6. Testing laboratory services; and
7. Contractor tests and inspections.

1.02 QUALITY CONTROL PROGRAM SUBMITTALS

A. Contractor shall submit a written Quality Control Program for the Project per the Pre-Construction Submittal Requirements of Section 01 33 00. This submittal shall include but not be limited to the following:

1. An overview of Contractor's Quality Control Program.
2. Identification and resume of Contractor's on-site Quality Control Manager (QCM).
3. A description of the activities, record keeping, and correspondence that the QCM will perform and be accountable for throughout the duration of the Project.
4. A description of the quality control meetings to be conducted, sample inspection check lists (i.e., samples of actual inspection check list forms that will be submitted to Owner when scheduling inspections), and Subcontractors' quality control representatives. All forms that Contractor intends to use in its Quality Control Program shall be part of the submittal.
5. A description of the QCM activities when inspections fail to verify compliance with the Contract Documents.
    a. These activities are to include, as a minimum, follow-up with

applicable Subcontractors, correction and/or completion of Work required for re-inspection, and the re-inspection.

b. Contractor shall submit its weekly Non-Compliance Logs at least 2 Days prior to each Progress Meeting.

6. A description of the QCM activities to provide the required notifications for inspections.

7. A description of record keeping and information turn-over to Owner as a component of the Operating and Maintenance data (i.e. factory representative's start-up reports and permission to energize, verification of correct voltage and phasing to motors, etc.).

8. Contractor will submit a daily report within 3-business days for any day work is performed. The daily report should include the following information; the list may be adjusted or relaxed with Owners Representative approval depending on size and scope of the project requirements:

a. progress photo's,

b. list of contractor's and work-force #'s for each contractor,

c. RFI's or questions,

d. equipment quantities in use or idle,

e. weather (if work is being performed outside),

f. construction delays or likely delays,

g. 3rd part inspections or city visits,

h. safety issues,

i. meetings conducted,

j. substantive material deliveries, and

k. any other relevant facts occurring on the site.

1.03 CONTRACTOR'S QUALITY CONTROL PROGRAM

A. Contractor shall establish and maintain a written Quality Control Program which shall be issued by Contractor to Subcontractors performing Work on the Project and utilized to verify that the execution of the Work is consistent with the requirements of the Contract Documents.

B. The Quality Control Program shall include, but not be limited to the following:

1. Preparatory Phase:

a. Prior to beginning Work, after all required plans/documents/materials are approved/accepted, and after copies are at the work site. Contractor shall:

b. Review of each paragraph of applicable specifications, reference

codes, and standards. Make a copy of those sections of referenced codes and standards applicable to that portion of the work to be accomplished in the field at the preparatory inspection. Maintain these copies in the field, available for use by Owner's Designated Representative until final acceptance of the work.

c. Review the Drawings.

d. Check to assure that all materials and/or equipment have been tested, submitted, and approved.

e. Review provisions that have been made to provide required control inspection and testing.

f. Examine the work area to assure that all required preliminary work has been completed and is in compliance with the contract.

g. Perform a physical examination of required materials, equipment, and sample work to assure that they are on hand, conform to approved shop drawings or submitted data, and are properly stored.

h. Review appropriate accident safety procedures.

i. Discuss procedures for controlling quality of the work including repetitive deficiencies. Document construction tolerances and workmanship standards for that feature of work.

j. Check to ensure that the portion of the plan for the work to be performed has been accepted by the Owner's Designated Representative.

k. Schedule, manage and record the minutes of each preparatory meeting.

l. Review all RFIs associated with the Work.

2. Initial Phase:

a. At the beginning of the Work, Contractor shall:

b. Check work to ensure that it is in full compliance with contract requirements. Review minutes of the preparatory meeting.

c. Verify adequacy of controls to ensure full contract compliance. Verify required control inspection and testing. Resolve all differences and deficiencies.

d. Establish level of workmanship and verify that it meets minimum acceptable workmanship standards. Compare with required sample panels as appropriate.

e. Check safety to include compliance with and upgrading of the Safety Plan. Review with each worker. Particular attention should be given to high hazard work.

f. Prepare and attach to the daily CQC report separate minutes of this phase.

g. Repeat the initial phase any time acceptable specified quality

standards are not being met.

3. Follow Up Phase:

   a. Perform daily checks to assure control activities, including control testing, are providing continued compliance with contract requirements, until completion of the Work. The checks shall be made a matter of record in the QC documentation. Conduct final follow-up checks and correct deficiencies prior to the start of additional features of work which may be affected by the deficient work. Do not build upon nor conceal non-conforming work.

C. Contractor's Quality Control Program shall be independent of any inspections and testing performed by Owner or by any independent testing and inspection agencies hired by Owner.

D. Within the Quality Control Program, Contractor shall have available on the jobsite at all times a written report of quality control activities. At a minimum, the report shall note Project site quality control inspections, performance of scheduled tests and follow-up testing, other required inspections, deficiency log, and examinations of workmanship and quality.

E. Test results shall identify applicable Contract (including Specification) requirements, the test or analysis procedures used, and the actual test results. A statement shall be included that the item tested or analyzed conforms or fails to conform to the Contract Documents. Each report shall be conspicuously stamped on the cover sheet "CONFORMS" or "DOES NOT CONFORM" as the case may be. All test reports shall be signed by a testing laboratory representative authorized to sign certified test reports. Copies of all test reports shall be available on the jobsite at all times.

F. If the Quality Control Program is found to be defective and Contractor does not promptly correct the deficiency, Owner may:

   1. Withhold payment until satisfactory corrective action has been taken, or
   2. Issue a stop work order until satisfactory corrective action has been taken.

G. Pre-Inspections: Contractor shall pre-inspect Work that requires normal, special, and additional inspections as indicated in the Contract Documents.

1.04 FIELD SAMPLES

A. Field samples are defined as the partial installation of selected materials at the Project site for Owner's review and acceptance of visual features and workmanship. Generally, accepted field samples are incorporated into the Work.

B. Contractor shall provide field samples as required by the Contract Documents at location acceptable to Owner.

C. Perform Work in accordance with the Contract Documents.

D. Approved samples will serve as an acceptable standard of quality and workmanship.

E. Maintain samples until completion of relevant Work.

F. Upon completion of relevant Work or when directed by Owner, demolish and remove samples from Project site unless sample is accepted as part of completed Work.

1.05 MOCK-UPS

A. Contractor shall provide mock-ups as required by the Contract Documents. Provide additional mock-ups, as required by Owner, until approval is obtained.

B. Do not proceed with subsequent Work until approval of the mock-up is obtained.

C. The approved mock-up shall be the standard of workmanship and materials for the Work that is represented by the mock-up.

D. Maintain mock-up in approved condition, until directed otherwise by Owner.

E. Unless specified otherwise, remove mock-up at completion of the Work or when directed by Owner.

F. Unless specified or approved otherwise, mock-ups shall be completed and approved prior to the pre-installation meeting at which the Work represented by the mock-up will be discussed.

G. Notify Owner a minimum of 7 Days prior to requesting mock-up approval.

1.06 MANUFACTURERS' INSTRUCTIONS

A. Contractor shall comply with manufacturers' instructions in full detail, including each step in sequence. Do not omit preparatory steps or installation procedures unless specifically modified or exempted by Contract Documents.

B. Should instructions conflict with Contract Documents, Contractor shall request clarification before proceeding.

1.07 MANUFACTURERS' FIELD SERVICES

A. When specified, Contractor must require product manufacturer to furnish a qualified representative to observe field conditions and quality of workmanship, and to provide recommendations, certifications, and other specified services.

B. Representative shall submit written report to Owner listing observations and recommendations.

1.08 TESTING LABORATORY SERVICES – NOT USED

1.09 CONTRACTOR TESTS AND INSPECTIONS – NOT USED

END OF SECTION 01 45 00

PART 1 GENERAL

1.01 SUMMARY

A. Contractor shall be evaluated on performance throughout the course of the contract to provide past performance documentation for future projects.

B. Section includes:

1. Program Objectives;
2. Performance Categories and Assessment;
3. Evaluation Reports;
4. Notice, Review and Appeal.

1.02 PROGRAM OBJECTIVES

A. The Contract Performance Evaluation Program is intended to improve contractor selection given the following primary objectives:

1. Assist the Owner in evaluating the contractor's qualifications and proven ability to successfully perform future contracts when past performance has been previously documented;
2. Provide the University objective data relating to Contractor responsibility;
3. Provide contractors with a means of enhancing their qualifications and reputation by receiving recognition for exceptional performance;
4. Encourage better working relationships between the University and the Contractor and to provide feedback to the contractor during and after the contract period;

1.03 PERFORMANCE CATEGORIES AND ASSESSMENT

A. Contractor shall be evaluated based upon the following categories:

1. Schedule and Time Management;
2. Quality Management;
3. Communication Effectiveness;
4. Management Approach;
5. Code and Compliance; and
6. Cost.

B. Each of the above categories will be assessed by multiple key project

stakeholders and provided one of the following performance levels based upon objective and cumulative data:

1. Outstanding (5): Contractor has exceeded the majority of all of the significant contract criteria and has met or exceeded the Schedule, Quality, Communications, Management, Code Compliance and Cost requirements of the contract. The contractor was extremely or completely knowledgeable of the contract requirements and applicable laws and regulations. A very consistent high level of cooperation, project management, and job site control appreciably contributed to an unusually good result.
2. Very Good (4): Contractor has exceeded many of the significant contract criteria and has met or exceeded some of the Schedule, Quality, Communications, Management, Code Compliance, and Cost requirements of the contract. The contractor was knowledgeable of the contract requirements and applicable laws and regulations. Was generally cooperative and performed their work with minimal prompting. Their performance results were very good.
3. Satisfactory (3): Contractor has satisfactorily met the overall contract criteria and has met the overall Schedule, Quality, Communications, Code Compliance and Cost requirement of the contract. The contractor occasionally had to be prompted or reminded of the contract requirements, but overall the project was acceptable, producing an acceptable result.
4. Marginal (2): Contractor may have met many, but not all, of the contract criteria and failed to meet one or more of the Schedule, Quality, Communications, Code Compliance or Cost performance requirements of the contract. Even though the project may have been accepted, the contractor's performance, as evaluated, was marginal overall. The contractor frequently had to be prompted or reminded of the contract requirements; overall the project was less than satisfactory.
5. Unsatisfactory (1): Contractor failed to meet many or most of the contract criteria and failed to meet the overall Schedule, Quality, Communications, Code Compliance and Cost performance requirements of the contract. While the project may have been accepted by the owner, the effort expended in prompting the contractor to perform was excessive. The contractor's poor or uncooperative performance created serious unnecessary and avoidable difficulties in achieving contract completion.

1.04 EVALUATION REPORTS

A. At the midpoint of project completion, Owner shall provide contractor with a draft Contract Evaluation Report based upon the current performance during the contract. This shall provide the Contractor an opportunity improve performance levels during the contract, and provide an opportunity for Contractor-Owner communication and working relationship.

B. A final Contract Performance Evaluation Report will be completed upon contract

completion and shall become the official report of record.

1. A Summary Contract Performance Evaluation will be provided to the Contractor within 30 calendar days after Final Completion.
2. Final Contract Performance Evaluation Reports will remain on record for a minimum of 5 years from date issued.

C. Upon receipt of the Summary Contract Performance Evaluation, Contractor shall review the report and may request a debrief conference within 21 calendar days of receipt.

D. If after the debrief, Contractor would like to dispute the evaluation findings the Contractor shall submit in writing, the specific reasons for disagreement and include the basis for their appeal within 14 calendar days following the debrief.

1. Upon receipt of appeal, Owner shall convene a review with the Assistant Vice President, Facilities Services, Capital to consider the objectivity, accuracy, completeness and fairness of the Contract Performance Evaluation.
2. The Contractor shall be notified and issued a final determination within 30 calendar days of receipt of the appeal.

END OF SECTION 01 45 34

PART 1 GENERAL

1.01 TEMPORARY UTILITIES

A. Owner may furnish to Contractor temporary Owner-owned utilities when available and upon Owner written approval. Owner reserves the right to restrict the use of its utilities if, in its opinion, Contractor fails to adequately conserve utilities or to use utilities appropriately. When using Owner-owned utilities, Contractor is to make metered connections to the nearest available service and disconnect same when no longer needed.

B. If Owner-owned utilities are not available at the Project site, or if Owner restricts use of Owner-owned utilities, Contractor shall obtain required services from commercial sources or public utilities, and Contractor is responsible to pay for all utility costs.

C. Contractor shall field verify the availability of utility services provided by Owner and coordinate the Work accordingly.

D. In remodeling projects where portions of the building are to remain in service, Contractor shall be responsible for coordinating the Work to maintain utility services to the occupied portions of the building.

1.02 TEMPORARY ELECTRICAL SERVICE

A. Contractor shall provide all services required for construction operations and may connect to existing services when available upon Owner approval. .

B. Contractor shall provide lighting for construction operations.

C. Contractor may use existing lighting when available and adequate.

D. Contractor shall maintain site lighting throughout the duration of the Work.

1.03 HEAT AND VENTILATION

A. Contractor shall provide heat and ventilation as required to maintain specified conditions for construction operations and to protect materials and finishes from damage due to temperature or humidity.

B. After a building is substantially enclosed, the permanent heating system or a temporary hook-up of equipment from the permanent system may be used for temporary heat provided that the equipment is properly installed by the responsible electrical and mechanical Subcontractors and available for supplying temporary heat. Owner shall be the sole judge of the adequacy of the building enclosure for temporary heating or cooling purposes.

C. Contractor shall arrange with the electrical and mechanical Subcontractors installing said systems and equipment for the use, operation, and maintenance of

the systems. Contractor shall pay for all connections and attendants for temporary heating, including necessary accessories such as temporary (construction) air filters to protect the air distribution systems from contamination.

D. Contractor shall provide a dust free air distribution system and correct all damage to this system caused by the Work.

E. In existing facilities, Contractor shall coordinate use of the existing systems with Owner. Contractor shall extend and supplement with temporary units as required to maintain specified conditions for construction operations.

F. Use of electric resistance type heating systems for temporary heat is prohibited.

G. The warranty period for any permanent equipment used during construction will not commence until Contractor achieves Substantial Completion.

1.04 TEMPORARY WATER SERVICE

A. Unless available from an Owner-owned utility, Contractor shall provide service required for construction operations. At all times, Contractor shall utilize backflow/cross-connection devices, certified by Owner, to safeguard water supply.

B. For Work in existing facilities, Contractor shall connect to existing services when approved by Owner and extend branch piping with outlets so that water is available for use by all persons associated with the Work.

C. Provide drinking water from a safe source for all those associated with the Work.

1.05 SANITARY FACILITIES

A. Contractor shall provide temporary restroom facilities. Facilities shall not directly or indirectly drain or discharge onto Owner property or any waters of the State. Place where directed at the time Work begins; maintain in sanitary condition. Remove upon completion of the Work and disinfect the premises.

B. Use of permanent and/or existing Owner’s facilities is not allowed.

1.06 BARRIERS

A. Contractor shall provide barriers as required to prevent public entry to construction areas and to protect existing facilities and adjacent properties from damage from construction operations.

B. When temporary fencing is indicated by the Drawings, or if fencing is provided at Contractor's option, enclosures shall be constructed of 6 feet high commercial grade chain link with vehicular and personnel gates, as required.

1.07 ENCLOSURES

A. Contractor shall provide temporary weather-tight closures of openings to provide acceptable working conditions, protect materials, facilitate temporary heating, and prevent entry of unauthorized persons. Provide doors with self-closing hardware and locks.

B. Contractor shall provide temporary roofing when so indicated by the Drawings or when made necessary by the Project requirements.

C. Contractor shall provide temporary dust-proof partitions when required to confine dust and moisture to the immediate Work area.

D. Contractor shall provide temporary noise-proof partitions when required to confine noise to the immediate Work area.

1.08 PROTECTION OF EXISTING FACILITIES

A. Utility Tunnel Protection: Contractor shall provide adequate planking across any tunnels to distribute loads and prevent damage. If necessary, Contractor shall provide temporary shoring inside tunnel areas.

B. Low Overhead Clearance: Contractor shall be fully responsible for addressing all vehicular limitations caused by low overhead restrictions throughout campus. Route all traffic to avoid damage to overhead structures. Review proposed routing with Owner prior to commencement of construction.

C. Tree and Plant Protection: Contractor shall protect trees and other plants not scheduled for removal; maintain protection until Project completion.

1. In the event that a tree or plant is damaged as a result of the Work that, in the opinion of Owner, requires replacement, Contractor shall be responsible for such replacement.
2. If at any time Contractor judges that the protection of plant materials designated to be saved is incompatible with Work required, or if operations necessarily threaten the health of any plant material, Contractor shall immediately notify Owner and cease Work affecting the area until a written agreement is reached concerning acceptable procedure.

1.09 SECURITY

A. Contractor shall provide security to protect the Work, existing facilities, and Owner's operations from unauthorized entry, vandalism, and theft. Coordinate with Owner's security program.

B. During construction, all openings to Owner's utility tunnel system must be protected against unauthorized entry. Contractor shall provide closures, approved by Owner, including locked doors or hatches at any openings created

by the Work.

1.10 PROTECTION OF INSTALLED WORK

A. Contractor shall provide temporary protection for installed products. Control traffic in immediate area to minimize damage.

B. Contractor shall provide protective coverings for walls, projections elevator cabs, jambs, sills, and soffits of openings. Protect finished floors and stairs from traffic, movement of heavy objects, and storage.

C. Contractor shall prohibit traffic and storage on waterproofed and roofed surfaces and on lawns and landscaped areas.

1.11 CLEANING DURING CONSTRUCTION

A. Contractor shall clean the site each day during construction and shall prevent the accumulation of waste materials and rubbish.

B. Contractor shall clean interior areas prior to the start of finish Work and maintain areas free of dust and other contaminants during finishing operations.

1.12 OFF-SITE CLEAN UP

A. Contractor shall continuously keep sidewalks, lawns, parking areas, and streets clear of construction materials, debris, gravel, rock, and dirt related to the Project.

1.13 LIFTING DEVICES AND HOISTING FACILITIES

A. Contractor shall provide cranes, hoists, towers, and other lifting devices necessary for the proper and efficient movement of materials.

1.14 MECHANICAL AND ELECTRICAL SYSTEM SHUT-DOWNS

A. Any shut-down of mechanical or electrical systems affecting Owner's operations shall be scheduled by Contractor during off-hours. Contractor shall submit a written shut-down request providing at least 14 Days advance notice. Any shut-down must be coordinated with and approved by Owner.

1.15 CONSTRUCTION PARKING

A. Contractor's employees may park only in accordance with campus traffic and parking regulations and pay all required fees.

B. When working in Pullman's central campus, Contractor’s vehicular use will be limited to the following:

1. Delivery of materials to and from Project site;

2. Single vehicle for use by Project supervisor of each major Contractor

(four total vehicles maximum); and

3. Workers' vehicles shall not be allowed to park in the central mall.

1.16 NOISE CONTROL

A. Any construction related noise that interferes or is likely to interfere with normal use of adjacent space(s) shall be scheduled and approved by Owner.

B. Contractor shall restrict any construction related noise to the hours approved by Owner and in accordance with the state and local noise ordinance.

C. Owner may approve Contractor working extended hours. Request any extended hours of operation with Owner.

1.17 TRAFFIC OBSTRUCTIONS

A. Contractor shall submit a written traffic control plan for all traffic obstructions, either pedestrian or vehicular, for approval by Owner, per the Pre-Construction Submittal Requirements of Section 01 33 00.

B. In some cases, it may be necessary to develop special routes for large or unwieldy deliveries that could interfere with pedestrian movement, especially at peak times.

C. Contractor shall avoid deliveries or equipment operations that block street traffic during peak times.

D. Pedestrian Obstructions: Any equipment on sidewalks or other pedestrian ways shall be barricaded. Barricades shall include a horizontal member at a maximum of two feet above the walking surface.

1.18 REMOVAL OF TEMPORARY FACILITIES

A. Contractor shall remove temporary materials, equipment, services, and construction facilities prior to Substantial Completion inspection.

B. Contractor shall clean and repair damage caused by installation or use of temporary facilities.

C. Contractor shall restore existing facilities used during construction to specified or original condition.

END OF SECTION 01 50 00

PART 1 GENERAL

1.01 PRODUCTS

A. Products include material, equipment, and systems.

B. Comply with Specifications and referenced standards as minimum requirements.

C. Components required to be supplied in quantity within a specification section shall be the same, and shall be interchangeable.

D. All materials shall be new unless specifically noted otherwise.

1.02 TRANSPORTATION AND HANDLING

A. Transport products by methods to avoid product damage; deliver in undamaged condition in manufacturer's unopened containers or packaging, dry.

B. Provide equipment and personnel to handle products by methods to prevent soiling or damage.

C. Promptly inspect shipments to assure that products comply with requirements, quantities are correct, and products are undamaged.

1.03 STORAGE AND PROTECTION

A. Store products in accordance with manufacturer's instructions, with seals and labels intact and legible. Store sensitive products in weather-tight enclosures; maintain within temperature and humidity ranges required by manufacturer's instructions.

B. For exterior storage of fabricated products, place on sloped supports above ground. Cover products subject to deterioration with impervious sheet covering; provide ventilation to avoid condensation.

C. Store loose granular materials on solid surfaces in a well-drained area; prevent mixing with foreign matter.

D. Arrange storage to provide access for inspection. Periodically inspect to assure products are undamaged, and are maintained under required conditions.

1.04 VARIATION FROM SPECIFIED PRODUCTS

A. Subsequent to Bid Opening/Proposal - Approved Equivalents:

1. Requests for approved equivalents will only be considered when approved equivalent statements, used in reference to product

specifications, are specifically provided for within individual Specification sections.

2. The terms "or an approved equivalent", "approved equivalent", or similar statements, when used herein in connection with manufacturers' products, shall be understood to mean products that are equally effective and suitable for their intended use; based on the judgment of the Owner, whose decision shall be final.

3. Written requests for consideration by the Owner of approved equivalents may be submitted throughout the Project.

4. Time extensions and additional costs resulting from use of approved equivalent products will not be considered.

B. No Substitutions:

1. The terms "No Substitutions", "Alternative Products not Acceptable", or similar statements used in reference to product specifications, shall mean that only the specified product will meet the needs of the University and that no other products will be considered at any time before or during the Project.

C. Requirements and Procedures for Product Variations:

1. The Contract is based on the standards of quality established in the Contract Documents.

2. Substitution or approved equivalent revisions shall be made only with the prior written acceptance of the Owner.

3. All requests for substitutions or approved equivalents must be on the proposer's letterhead and shall be accompanied by complete specifications, samples, records of performance, certified copies of tests by impartial and recognized laboratories, and such other information as the Owner may request to prove the merit of the proposed revisions.

4. The Contractor assumes the responsibility for capacity, dimensions, clearance, etc., of the named manufacturer's particular item to assure that the revision meets the requirements.

5. The Contractor shall assume the cost of any redesign, in the form of changes to the Drawings, or for the Work of any other trades, or any other costs required to properly incorporate any revision associated with substitutions or use of approved equivalent products.

6. Final decisions as to the quality and suitability of proposed revisions will rest solely with the Owner and will be based on proof submitted.

7. When the Owner approves a substitution or approved equivalent proposed by the Contractor, it is with the understanding that the Contractor certifies that the article or material is equivalent to or better than that specified.

END OF SECTION 01 60 00

PART 1 GENERAL

1.01 PURPOSE

A. Provide for an orderly, timely, and efficient completion of the Work for Owner.

1.02 SUBSTANTIAL COMPLETION

A. Requirements for Substantial Completion: Contractor shall comply with all requirements for Substantial Completion identified in the General Conditions and other Contract Documents. Prior to Substantial Completion, Contractor must have constructed the Work in substantial accordance with the Contract Documents, and:

1. Certificate of Occupancy received from the AHJ.
2. All elements of the Work must be operational and in good working order and condition, except for incidental punchlist Work;
3. The fire and life safety systems, if any, must be tested and accepted;
4. Any elevators must be operational, functioning, and in good working order and condition, and be fully approved for use;
5. All mechanical, electrical, plumbing, telecommunications, security, and access control systems must operate and function in good working order and condition, including commissioning;
6. The finish portion of the Work must be complete including but not limited to paint, trim, doors, partitions, cabinetry, floor coverings, ceilings, wall finish, and other finish surfaces, except for incidental punchlist Work;
7. All roadway improvements, paving, sidewalks, parking areas, other street improvements, lighting, landscaping and irrigation must be complete;
8. Utilities must be complete, connected, and operating normally;
9. Contractor must have removed all construction facilities, temporary controls, and construction debris;
10. Contractor must have completed training Owner's personnel on all operating instructions and submitted training DVDs; and
11. Final cleaning.

B. Prior to Substantial Completion Contractor shall request in writing that Owner grant Substantial Completion. Accompanying the request Contractor submit the following:

1. A list of all items remaining to be completed or corrected;
2. Signed originals from authorities having jurisdiction of all certificates of compliance and final approval, as applicable;
3. All system software files required by the Contract Documents, including

but not limited to lighting and environmental controls;

4. Revised Draft Operation & Maintenance manuals; and

5. Draft Project Record.

C. Upon satisfactory completion of the requirements for Substantial Completion, Owner shall prepare and forward to Contractor a letter of Substantial Completion. The letter will identify the date of Substantial Completion and include a punch list identifying all remaining incomplete Work. Contract warranties shall begin as of the date of Substantial Completion.

1.03 FINAL COMPLETION

A. Requirements for Final Completion: Upon receipt of Contractor's written Notice that Contractor has inspected and completed punch list items and that the Work is ready for final inspection and acceptance, Owner will promptly make such inspection accompanied by Contractor. If Owner determines that some or all of the punch list items are not complete, Contractor shall be responsible to Owner for all costs, including re-inspection fees, for any subsequent inspection to determine completion of the punch list. When Owner finds all punch list items complete and the Work and Contract fully performed, Owner shall establish the date of Final Completion. Owner is not required to establish Final Completion until the following are complete:

1. Complete all requirements listed in the Contract Documents for Substantial Completion of the Work;

2. Complete all remaining punch list items and remaining Work, and obtain approval by Owner that all Work is complete;

3. Obtain permanent occupancy permits (if only a temporary occupancy permit was issued at Substantial Completion);

4. Submit Project Record, any final property survey, and final Operation and Maintenance manuals (if not previously submitted) required by the Contract Documents;

5. Deliver any required tools, spare parts, extra stock of material and similar physical items to Owner as required by the Contract Documents;

6. Complete cleaning after completion of punch list;

7. Submit executed warranties;

8. Complete any required sustainability documentation for which Contractor is responsible;

9. Submit a final comprehensive list of all Subcontractors of all tiers and suppliers for the Project; and

10. Submit certification that materials used in the Work are "asbestos-free" and that all requirements of governing jurisdictions related to the Project have been addressed.

11. Final Project Record.

B. Upon satisfactory completion of the requirements for Final Completion, Contractor shall submit a final Application for Payment.

1.04 FINAL ACCEPTANCE

A. Requirements for Final Acceptance: Final Acceptance shall be established by Owner in writing. Owner shall not be obligated to accept the Project as complete before Final Completion has occurred and Contractor has submitted the following:

1. An affidavit that all payrolls, bills for materials and equipment, and other indebtedness connected with the Work for which Owner or Owner's property might be responsible or encumbered (less amounts withheld by Owner) have been paid or otherwise satisfied, except for any claims that are specifically identified on the affidavit (Affidavit of Payment of Debts and Claims, AIA form G706 or equivalent).
2. A certificate or written statement evidencing that insurance required by the Contract Documents to remain in force after final payment is currently in effect and will not be canceled or allowed to expire until at least 30 Days' prior written Notice has been given to Owner.
3. Receipt of consent of surety, if any, to final payment (AIA form G707 or equivalent).
4. If required by Owner, other data establishing payment or satisfaction of obligations, such as receipts, releases and waivers of liens, claims, security interests or encumbrances arising out of the Contract, to the extent and in such form as may be designated by. If a Subcontractor refuses to furnish a release or waiver required by Owner, Contractor may furnish a bond satisfactory to Owner to indemnify Owner against such lien. If such lien remains unsatisfied after payments are made, Contractor shall refund to Owner all money that Owner may be compelled to pay in discharging such lien, including all costs and reasonable attorneys' fees.
5. Provide copy to Owner of all "Affidavits of Wages Paid". Pursuant to RCW 39.12.040, an "Affidavit of Wages Paid" from Contractor and from each Subcontractor certified by the Industrial Statistician of the Washington State Department of Labor and Industries, with the fees paid by Contractor or Subcontractor.

B. Contingent upon completion of all Affidavits of Wages Paid, the "Notice of Completion of Public Works Contract" form may be completed by Owner.

1.05 RETAINAGE

A. Retainage must be held at least 45 Days following Final Acceptance. If there are either unpaid taxes or fees, or unsatisfied claims of lien against the retained percentage, disbursement of retainage funds will be made in accordance with Washington law.

B. The retainage will be held and applied by Owner as a trust fund in the manner required by RCW 60.28. Release of the retainage will be processed in the ordinary course of business following Final Acceptance of the Work by Owner, provided no notice of lien has been given as provided in RCW 60.28, no claims have been brought to the attention of Owner, Owner has no claims under the Contract, and the requirements below have been met.

C. Owner shall not release retainage until the following requirements have been satisfied.

1. "Certificate of Payment of State Excise Taxes by Public Works Contractor": Following receipt of Owner's notice of completion and after determining that all taxes, increase and penalties due from Contractor have been paid, the Department of Revenue will issue this certificate to Owner.
2. "Certificate of Payment of Contributions, Penalties and Interest on Public work Contract": Upon receiving a copy of Owner's notice of completion and after determining that Contractor is in compliance with the provisions of the Employment Security Act, the Employment Security Department will issue this certificate to Owner.
3. "Certificate of Release": Upon receipt of Contractor's request for release and verification from its records that required premiums have been paid by Contractor and each Subcontractor, the Department of Labor and Industries will issue a statement to that effect.

END OF SECTION 01 70 00

PART 1 GENERAL

1.01 SUMMARY

A. This Section describes the waste management and recycle management criteria for debris and solid waste generated as part of the Work.

B. Contractor shall be responsible for sorting, segregating waste materials. Contractor shall be responsible for segregating and disposing all unacceptable and dangerous wastes as defined below.

C. Waste that is disposed of by Contractor shall be in accordance with all applicable local, state, and federal regulations, including WAC 173-350, Solid Waste Handling Standards, and WAC 173-303, Dangerous Waste Regulations.

1.02 DEFINITIONS

A. Construction Waste: Waste resulting from the Work.

B. Dangerous Waste: Solid waste designated in WAC 173-303 and/or 40 CFR. As used in this Section, the words “dangerous waste” will refer to the full universe of wastes regulated by WAC 173-303 and 40 CFR.

C. Demolition Waste: Largely inert waste, resulting from the selective demolition of buildings, roads and other man-made structures such as cured concrete, asphaltic compounds, brick and masonry, ceramic, glass, steel, and aluminum, and non-inert materials such as clean wood, composition roofing and roofing paper, and minor amounts of metal. Plaster (i.e., sheetrock or plaster board) or any other material, other than clean wood, that is likely to produce gases or leachate during its decomposition process and asbestos waste are not considered to be demolition waste.

D. Land Clearing Waste: Natural vegetation and clean soils from clearing and grubbing land for development such as stumps, brush, weeds, tree branches, tree bark, mud, dirt, sod and rocks.

E. Recycle/Recycling: The process of separating waste materials for remanufacturing or reprocessing into usable or marketable materials. Examples of recycling include separating wood off-cuts for recycling by a wood processor into paper pulp, or separating cardboard, plastic, beverage containers, or miscellaneous metals for recycling.

F. Reuse: To use a construction waste material again in roughly its same form. Materials can be reused on-site or on other projects off-site. Examples of reuse include removing a hardwood floor and reinstalling it in a new project, or using soil from one site as fill on another site.

G. Salvage: To remove a construction waste material or equipment from an existing building for reuse on-site or reuse on other projects off-site. Items to be salvaged

shall be designated by Owner for removal and delivery to Owner.

H. Unacceptable Waste: All waste not authorized for disposal by Owner. This includes any waste that is now or hereafter defined by federal law or by the governing jurisdiction as radioactive, dangerous, hazardous or extremely hazardous waste, unsanitary waste, and vehicle tires in excess or those permitted to be disposed of by the laws of the governing jurisdiction. It does not include any waste destined for salvage, recycling, or general demolition.

I. Waste: All solid waste generated within the limits of the Project, or extra material or material that has reached the end of its useful life in its intended use. Waste includes salvageable and recyclable materials, masonry, and concrete.

J. Waste Management Plan: A Project-specific plan for the salvage, collection, transportation, recycling, and disposal of the waste generated at the Project site. A waste management plan includes procedures for separating, storing, and transporting waste and includes methods to assure proper implementation of the plan.

1.03 WASTE MANAGEMENT PLAN

A. Draft Waste Management Plan: Per the Pre-Construction Submittal Requirements of Section 01 33 00, Contractor shall submit to Owner a Draft Waste Management Plan. The Draft Plan shall contain the following:

1. List of materials to be salvaged, materials to be recycled, and materials to be disposed of as solid waste, and dangerous waste.
2. General material handling methods, including segregation and sorting, and placing solid waste into designated containers, on-site storage, and any special procedures for removing and protecting materials.
3. Plan for communicating salvage and recycling requirements on the Project.
4. Dangerous waste identification, accumulation, and disposal management procedures.
5. Materials to be sorted, salvaged, and recycled:
    a. At a minimum, the following types of materials in reusable condition shall be salvaged and sorted. Contractor shall remove and deliver to the Owner at designated location on the Pullman campus.
    b. At a minimum, the following types of materials shall be sorted and included for recycling:
        1) All metals (from banding, stud trim, ductwork, piping, rebar, roofing, other trim, steel, iron, galvanized sheet steel, stainless steel, aluminum, copper, zinc, lead, brass, and bronze);
        2) Beverage containers;

3) Cardboard (from supplies and packaging);

4) Clean wood (all unpainted, untreated wood scrap including pallets and engineered wood);

5) Mixed office paper (including blue prints);

6) Film plastic (from shrink wrap and other packaging, and sheeting used as protection or erosion control); and

7) Plate glass.

c. With the exception of unacceptable waste, all materials not designated for salvage or recycle per Paragraph 1.03(A)(5) above, may be co-mingled and disposed of as waste.

B. Dangerous Waste Management:

1. Contractor is responsible for all dangerous waste generated during the Project shall be identified, accumulated and disposed in accordance with WAC 173-303. Contractor generated dangerous waste must be shipped for disposal within 90 Days of generation.

2. Contractor may accumulate dangerous waste in accordance with WAC 173-303 and Washington Department of Ecology Technical Information Memorandum 94-120, Satellite Accumulation. If Contractor accumulates dangerous waste in volume greater than 55 gallons or acutely hazardous waste in a volume greater than one quart, Contractor shall establish and operate a “90-Day” accumulation area in accordance with WAC 173-303.

3. Contractor shall dispose dangerous waste only through vendor(s) approved by Owner. Contractor shall arrange all dangerous waste shipments. Utilization of the vendor and facilities included in the State of Washington Hazardous Waste Disposal contract is authorized. Any other proposed vendor(s) and/or facilities are subject to audit by Owner, prior to utilization. Contractor shall pay for said audits. Contractor shall coordinate with Owner’s Environmental Health & Safety (EH&S) Department for transportation and disposal of all Project generated dangerous waste. EH&S will sign all Uniform Hazardous Waste Manifests.

C. Final Waste Management Plan: Once Owner has reviewed the draft Waste Management Plan and responded with comments or corrections, Contractor shall submit a final plan within 14 Days.

PART 2 PRODUCTS – NOT USED

PART 3 EXECUTION

3.01 WASTE CONTAINMENT

A. Contractor shall provide separate waste containers for and properly dispose of all unacceptable waste, including dangerous waste, in accordance with applicable law.

3.02 CONTAMINATION OF WASTE

A. Contractor shall take extraordinary care to ensure construction wastes are properly sorted, segregated, and placed within the correct containers.

B. Should any waste containers designated for salvage, recycle, or general disposal be cross-contaminated with dangerous or unacceptable waste, Contractor shall pay all costs of legally disposing the contaminated waste.

C. Project progress meetings shall include review of construction waste management as an agenda item.

END OF SECTION 01 74 19

PART 1 GENERAL

1.01 PURPOSE

A. Contractor shall submit advance/draft electronic of Operation & Maintenance manuals (O&Ms) at or immediately following the 80% Application for Payment. Subsequent Applications for Payment will not be processed until an advance/draft copy of the O&Ms has been submitted for review.

B. Contractor shall submit a final draft of O&Ms on or before Substantial Completion and provide training of Owner's staff in the operation and maintenance of the facility.

1.02 PROCEDURES

A. Together with a request for Substantial Completion, Contractor shall provide one revised draft electronic version of O&Ms.

B. To achieve Final Completion, Contractor shall submit :

1. Two final copies of O&Ms;
2. A text-searchable PDF electronic file of the O&Ms;
3. Separate Test & Balance Reports and Telecommunications Test Reports in an independent three ring binder;
4. A text-searchable PDF electronic file of the Test & Balance Reports and Telecommunications Test Reports.

PART 2 PRODUCTS

2.01 O&M MANUAL MATERIALS

A. O&M Manuals shall be bound into 3-ring binders (three sets) with the cover and spine to be composed and laid out per the cover page template on the last page of this Section. A separate O&M Manual will provided for each building location included in the project.

B. The maximum thickness for each manual shall be 3". Multiple manual sets shall be organized by:

1. General,
2. Vertical Transportation,
3. Mechanical,
4. Electrical, and
5. Other (Laboratory Equipment, Special Equipment, etc.).

C. Paper shall be 8 1/2" x 11", 20 lb. white paper. Divisions within volumes are to be accomplished and annotated with permanently imprinted tabs (insertable indexes are not permitted) which indicate Specification Section numbers only.

D. Copies must be legible. Facsimile transmission copies are not acceptable. Original equipment manufacturer (OEM) printed material is preferred.

PART 3 EXECUTION

3.01 PRODUCTION

A. O&Ms are to be as follows:

1. Table of Contents – a listing of the contents of all volumes. This table of contents shall be inserted at the beginning of each volume in the set.
    a. Identify Contractor, include name, address, phone and fax number, and provide a contact name.
2. Subcontractor List – a list or spreadsheet, organized by Specification Section, of all suppliers and Subcontractors of all tiers who performed Work on the Project. Include the name, address, phone and fax number of Subcontractor or supplier, the Specification Section, and the description of the Work. When Subcontractors perform Work of more than one Specification Section, provide a separate listing of each Specification Section. This listing shall be at the beginning of volume #1 only.
    a. Written certification from Contractor attesting that no asbestos containing products have been incorporated into the Work.
3. Warranty List – a list or spreadsheet containing Contractor's one-year correction period obligation and all extended (greater than one-year) warranties, organized by Specification Section that indicates:
    a. Item Description (include here special warranty numbers or codes),
    b. Length of warranty,
    c. Specification Section, and
    d. Contractor's contact information, followed by physical copies of the Contractor's one-year correction period obligation and all extended warranties. Note that 1-year warranties from Subcontractors are not to be bound into each volume of the O&Ms. This warranty list and attendant warranties shall be at the beginning of volume #1 only, immediately following the asbestos certification.
4. Provide data as outlined in each specification section.

B. Original equipment manufacturer (OEM) information is required to be a part of all equipment information within the O&Ms.

C. Shop Drawings and product data initially submitted for acceptance are generally not acceptable for O&M use (one notable exception is snow melting cable layout drawing – a manufacturer detailed item). Routine Project components such as asphalt, concrete, pipe, fittings, conduit, etc., are not to be included in O&Ms.

END OF SECTION 01 78 23
(O&M cover and spine data on next page)

Building Number, Building Name

Roof Replacement/Repair on Various WSU Campuses

2027

General
O&M Manual

Vol. X of Y

(Spine and Cover)

PART 1 GENERAL

1.01 DESCRIPTION

A. Owner has set the following indoor air quality requirements for site operations on the Project, within the limits of the Progress Schedule, Contract Sum, and available materials, equipment, products, and services. These include:

1. Protect workers on the site from air quality problems during construction.
2. Prevent indoor air quality problems in the completed facility.
3. Prevent indoor air quality problems in adjacent facilities.

B. To achieve these requirements, Contractor shall develop an “Indoor Air Quality (IAQ) Management Plan” for this Project.

C. Comply with current LEED Reference Guide.

1.02 IAQ MANAGEMENT PLAN MANAGER

A. Contractor shall identify an IAQ Management Plan Manager who will be responsible to monitor construction activities to ensure that the requirements of the IAQ Management Plan are met. The IAQ Manager may also be the Contractor’s Quality Control Manager. The IAQ Manager will be responsible for the following:

1. Draft and submit the IAQ Management Plan to Owner for acceptance.
2. Document IAQ Management Plan progress on a weekly basis.
3. Conduct meetings as required with all participants in the construction process to communicate the IAQ procedures and understand the importance of the requirements of the IAQ Management Plan. If necessary, post signs to ensure workers' safety.
4. Identify IAQ problems and institute remedial action as necessary.
5. Be present at regular Progress Meetings, as appropriate, and be responsible for providing a monthly written status report as it relates to IAQ for the Project and be prepared to discuss construction related IAQ procedures currently in effect.

1.03 IAQ MANAGEMENT PLAN

A. Draft IAQ Management Plan: Submit a Draft IAQ Management Plan within 14 Days after Notice to Proceed, which contains preliminary descriptions of the following procedures for which Contractor is responsible (initial installation, verification that element(s) are in place, daily inspection and upkeep, and removal):

1. List of indoor air quality protective measures to be instituted at Project site, including HVAC system protection during construction and any other control measure applicable to the Project;
2. A plan and schedule for inspection and maintenance of indoor air quality measures;
3. Installation sequencing for porous materials, including paint;
4. Measures to be employed to protect ducts and stored on-site or installed absorptive materials from moisture damage;
5. Type of filtration media used during construction
6. Cleanup of contaminated components after construction

B. The Draft IAQ Management Plan shall meet or exceed the minimum requirements of the current Sheet Metal and Air Conditioning National Contractors Association (SMACNA) IAQ Guidelines.

C. Final IAQ Management Plan: After review and comment on the "Draft IAQ Management Plan," Contractor shall submit a "Final IAQ Management Plan" that includes the finalized written procedures for above noted elements. This final plan shall address all review comments noted on the draft submittal and be submitted prior to the commencement of construction.

1.04 BUILDING FLUSH-OUT SCHEDULE – NOT USED

PART 2 PRODUCTS – NOT USED

PART 3 EXECUTION

3.01 IAQ MANAGEMENT PLAN IMPLEMENTATION

A. Contractor shall implement and maintain the approved IAQ Management Plan for the duration of the Project and update procedures at any time due to unanticipated building conditions. Contractor shall:

1. Use temporary filtration media during construction to protect HVAC at each return air grille; filtration media shall have a Minimum Efficiency Reporting Value (MERV) of 8 as determined by ASHRAE 52.2 - 1999. Isolate the return side of the HVAC system from the surrounding environment as much as possible. Return side shall have the heaviest Work areas dampered off and all return system openings sealed with plastic. Return side shall be shut down and sealed whenever possible.
2. Avoid the use of products, materials and operations that would cause IAQ problems or concerns.
3. Protect the ventilation system components (equipment and ductwork) from contamination, and provide cleaning of the ventilation components, including ductwork exposed to contamination during construction. Protect

during transit and installation.

4. Provide ventilation as may be necessary to protect workers' health and avoid the accumulation of volatile compounds, dust and other harmful airborne contamination.

5. Provide weekly reports and photographs of construction IAQ management measures such as protection of ducts and stored or installed absorptive materials. In each report, describe and illustrate IAQ measures (installation, effectiveness, upkeep, etc.) during construction along with a description of the SMACNA approach employed.

6. Provide data sheets of filtration media used during construction and installed prior to building occupancy.

7. During installation of carpet, resilient flooring, paints, furnishings, and other VOC emitting products, provide supplemental (spot) ventilation for at least 72 hours after Work is completed and describe these activities in the weekly reports.

B. Contractor shall conduct regular inspection and maintenance of indoor air quality measures, including ventilation system protection and ventilation rate.

C. Contractor shall use low-toxic cleaning supplies for surfaces and equipment.

D. When dry sanding for gypsum board assemblies, Contractor shall provide the following protection:

1. Isolate the space;

2. Provide plastic sheet separation during sanding;

3. Close and seal all air system devices and ductwork; and

4. Sequence the Work to avoid contamination of other spaces with gypsum dust.

3.02 VENTILATION OF CONSTRUCTION FUMES

A. When hazardous chemicals, mineral-spirit based paints, adhesives, or other similar materials are used, the Contractor shall exhaust toxic, noxious, or odor producing fumes from the building in a manner approved by Owner. Contractor's method of exhaust shall ensure the safety of building occupants and pedestrians in and around the Project site. All supply and return air ductwork within the construction area shall be capped air-tight to prevent distribution of fumes.

3.03 BUILDING FLUSH-OUT – NOT USED

3.04 COMPLETION PROCEDURES

A. Remove all IAQ measures as well as signs, framing, and supports at completion of Project.

END OF SECTION 01 81 19