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SITE PLAN FOR
WSU STADIUM WAY CROSSWALK IMPROVEMENTS
PULLMAN, WA

PROJECT TEAM

OWNER

**WASHINGTON STATE UNIVERSITY
FACILITY SERVICES**
2325 E GRIMES WAY
PULLMAN, WA 99164
P 509.335.9000
CONTACT:
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CARBOUR@WSU.EDU

CIVIL ENGINEER

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SURVEYOR

SYNTIER
405 SE BELSFORD DR, STE C
PULLMAN, WA 99163
P 509.339.6187
CONTACT:
JASON VON LINDEN
JASON@SYNTIERGR.COM

STRUCTURAL ENGINEER

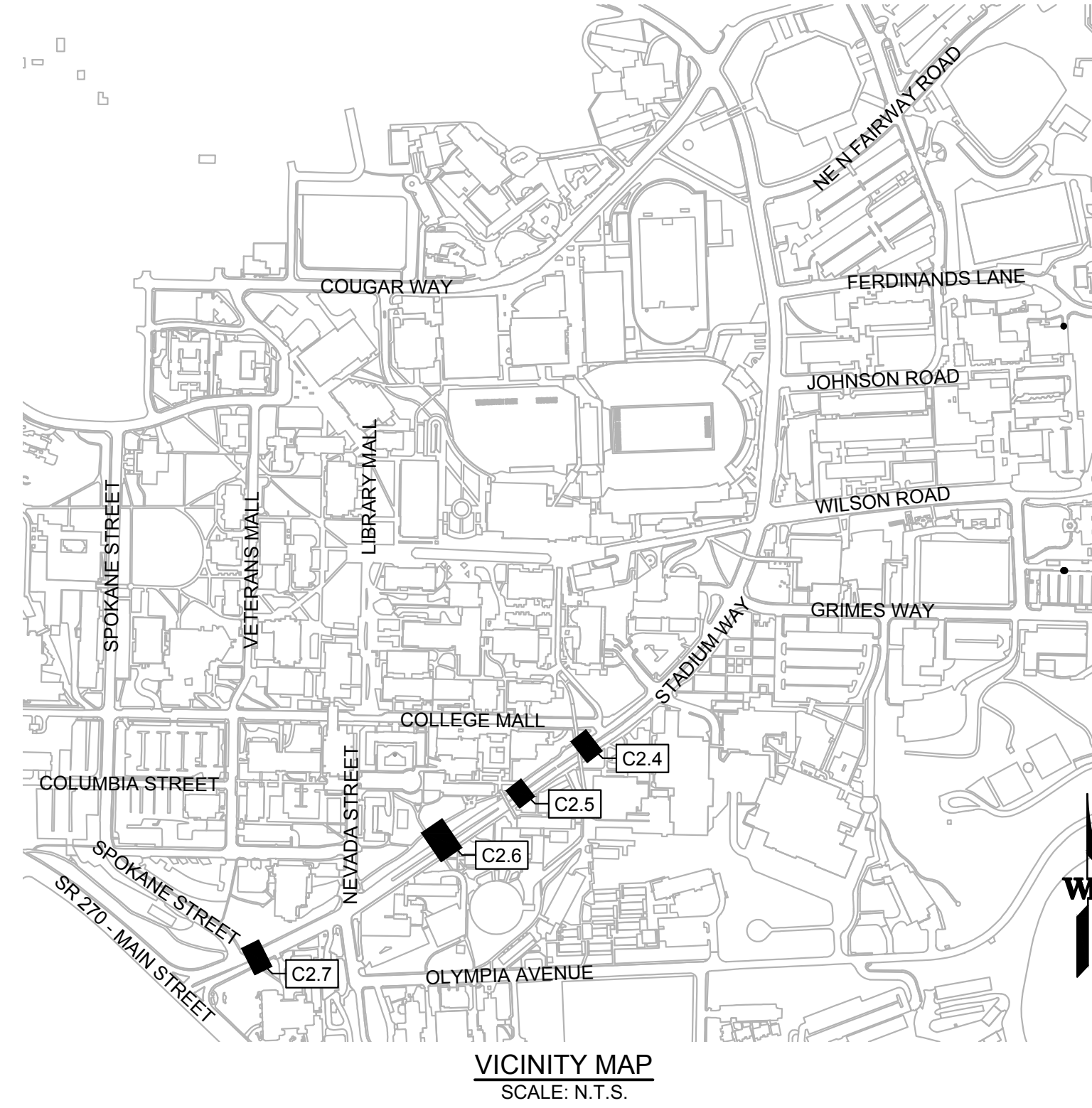
PCS STRUCTURAL SOLUTIONS
1250 PACIFIC AVE., STE 7 01
TACOMA, WA 98402
P 253.383.2797
CONTACT:
LUKE HEATH
LHEATH@PCS-STRUCTURAL.COM

LEGEND

DEFINITION	NEW	EXISTING
PROPERTY LINE	---	---
ADJACENT PROPERTY LINE	---	---
CENTERLINE	---	---
MONUMENT LINE	---	---
EASEMENT	---	---
BUILDING LINE	---	---
FOUND MONUMENT AS NOTED		
STREET LIGHT		
TRAFFIC SIGNAL POLE		
TRANSFORMER		
SANITARY SEWER MANHOLE		
STORM DRAIN MANHOLE		
CATCH BASIN		
CLEAN OUT		
FIRE HYDRANT		
WATER METER		
SIGN		
INDEX CONTOUR		
CURB		
CURB & GUTTER		
SAWCUT LIMITS		
FENCING		
SANITARY SEWER		
STORM DRAIN		
PERFORATED PIPE		
WATER		
CONCRETE AREA		
ASPHALT AREA		
MODIFIED TUNNEL LID		
BIDIRECTIONAL RRFB W/ PUSH BUTTON		
CROSSWALK		
DETAIL CALLOUT		

ABBREVIATIONS

AB	AGGREGATE BASE ROCK	IB	IRRIGATION BOX
AC	ASPHALTIC CONCRETE PAVING	ICB	IRRIGATION CONTROL BOX
CB	CATCH BASIN	INV	INVERT ELEVATION
CTV	CABLE TELEVISION	INT	INTERCONNECT BOX
DI	DROP INLET	LIP	LIP OF GUTTER
DIA	DIAMETER	LP	LOW POINT
DS	DOWNSPOUT	NTS	NOT FOR SCALE
DWG	DRAWING	MON	MONUMENT
EB	ELECTRIC BOX	PCC	PORTLAND CEMENT CONCRETE
EM	ELECTRIC METER	PED	PEDESTAL
ESMT	EASEMENT	PV	PAVEMENT
EV	ELECTRIC VAULT	PVC	POLYVINYL CHLORIDE
EW	EACH WAY	RW	RIGHT OF WAY
EX	EXISTING	SDMH	STORM DRAIN MANHOLE
FG	FINISH GRADE	STD	STANDARD
FL	FLOW LINE	SLB	STREET LIGHT BOX
FND	FOUND	SSMH	SANITARY SEWER MANHOLE
FOB	FIBER OPTIC BOX	TB	TELEPHONE BOX
FOMH	FIBER OPTIC MANHOLE	TESC	TEMPORARY EROSION AND SEDIMENTATION CONTROL
FS	FINISH SURFACE	TI	TRAFFIC INDEX
GV	GAS VALVE	TC	TOP OF CURB
HP	HIGH POINT	TSB	TRAFFIC SIGNAL BOX
		TYP	TYPICAL
		WA	WASHINGTON
		WSDOT	WASHINGTON STATE DEPARTMENT OF TRANSPORTATION



WSU GENERAL NOTES

- THE CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS PRIOR TO EXECUTING ANY WORK AND SHALL NOTIFY THE DEPARTMENT OF CAPITAL PLANNING AND DEVELOPMENT IN WRITING OF ANYTHING DIFFERING FROM THAT SHOWN ON THE DRAWINGS. FAILURE TO DO SO WILL CONSTITUTE THE CONTRACTOR'S ACCEPTANCE OF THE WORK AS SHOWN.
- ALL WORK SHALL COMPLY WITH ALL CODES, ORDINANCES AND REQUIREMENTS.
- DO NOT SCALE DRAWINGS; WRITTEN DIMENSIONS SHALL PREVAIL.
- THE CONTRACTOR SHALL OBTAIN ALL PERMITS REQUIRED PRIOR TO ANY PHASE OF CONSTRUCTION. FEES AND ANY RELATED COSTS ARE THE RESPONSIBILITY OF THE CONTRACTOR.
- EXISTING BUILDINGS, UTILITIES, ETC. OR PORTIONS THEREOF, WHICH ARE DAMAGED BY CONSTRUCTION OPERATIONS SHALL BE REPAIRED OR REPLACED TO THEIR ORIGINAL CONDITION, UNLESS OTHERWISE NOTED TO BE REMODELED PER THE CONTRACT DOCUMENTS.
- THE CONTRACTOR MUST CONTACT "CALL BEFORE YOU DIG," AT (800) 553-4344 AND/OR ALL APPROPRIATE UTILITY COMPANIES FOR BURIED PIPES OR CABLES, PRIOR TO ANY EXCAVATION.
- EXACT LOCATIONS OF EXISTING UTILITIES ARE TO BE VERIFIED BY THE CONTRACTOR.
- THE DUTIES OF THE OWNER/WASHINGTON STATE UNIVERSITY, ITS ENGINEER, AND ITS DESIGNATED CONSULTING ENGINEER DOES NOT INCLUDE DESIGN AND CONSTRUCTION REVIEW SERVICES RELATING TO THE CONTRACTOR'S SAFETY PRECAUTIONS OR TO THE MEANS, METHODS, TECHNIQUES, SEQUENCES OR PROCEDURES REQUIRED FOR THE CONTRACTOR TO PERFORM HIS WORK.
- FOLLOWING IS A LIST OF TELEPHONE NUMBERS THAT MAY NEED TO BE CONTACTED DURING THE CONSTRUCTION PHASE OF THE PROJECT:

[]	CYNTHIA ARBOUR PROJECT MANAGER	(509) 335-7010
[]	WSU DEPARTMENT OF FACILITIES SERVICES - OPERATIONS (UTILITY INFORMATION)	(509) 335-9000
[]	AVISTA UTILITIES (GAS & POWER)	(800) 553-4344
[]	CALL BEFORE YOU DIG	(800) 553-4344

SURVEY INFORMATION

SURVEY REFERENCE:
TOPOGRAPHIC AND UTILITY SURVEY COMPLETED BY SYNTIER ENGINEERING, INC. DATED SEPTEMBER 2023. CONTRACTOR SHALL VERIFY EXISTING CONDITIONS PRIOR TO START OF CONSTRUCTION.

HORIZONTAL DATUM
NAD 1983(211), WASHINGTON
STATE PLAN SOUTH ZONE
COORDINATE SYSTEM, U.S.
SURVEY FEET, BASED ON THE
WASHINGTON STATE
REFERENCE NETWORK (WSRN).

VERTICAL DATUM
NAVD88 BASED ON THE WASHINGTON
STATE REFERENCE NETWORK (WSRN).

UTILITY PROVIDERS

SEWER	WSU	509.335.9000
WATER	WSU	509.335.9000
STORM	WSU	509.335.9000
GAS	WSU AVISTA	509.335.9000 800.553.4344
POWER	WSU AVISTA	509.335.9000 800.553.4344

DESIGN FIRM:

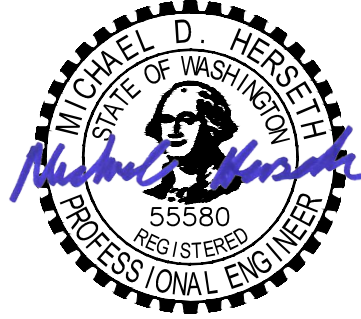
WARE MALCOMB

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waremalcomb.com

CONSULTANTS:

PROVISIONAL STAMP:



02/07/2024

**WASHINGTON STATE
UNIVERSITY**

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PH 509-335-5571
FAX 509-335-9304

STADIUM WAY
CROSSWALK
IMPROVEMENTS

2425 EAST GRIMES WAY
PULLMAN, WA 99164

MARK	DATE	DESCRIPTION
3	02/07/24	BID DOCUMENTS
2	11/28/23	90% BID DOCUMENTS
1	10/13/23	SCHEMATIC DESIGN

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SHEET

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SHEET 1 OF 13 SHEETS

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GENERAL CIVIL NOTES:

1. ALL WORK SHALL COMPLY WITH CITY OF PULLMAN AND WSU CODES, STANDARDS, ORDINANCES, AND REQUIREMENTS.
2. DO NOT SCALE DRAWINGS WHERE DIMENSIONS AND/OR HORIZONTAL/VERTICAL CONTROL ARE PROVIDED.
3. OBTAIN ALL PERMITS REQUIRED PRIOR TO ANY CONSTRUCTION PHASE.
4. COORDINATE CONSTRUCTION SEQUENCING AND IMPACTS TO CAMPUS OPERATIONS WITH THE WSU CONSTRUCTION MANAGER AT LEAST 14 DAYS PRIOR TO ANY PHASE OF CONSTRUCTION.
5. PROVIDE PROTECTION NECESSARY TO PREVENT DAMAGE TO EXISTING IMPROVEMENTS TO REMAIN. RESTORE ALL DAMAGED OR DISTURBED AREAS IN KIND, UNLESS DIRECTED OTHERWISE.
6. CONTACT "CALL BEFORE YOU DIG" AT 811 AND APPROPRIATE UTILITY COMPANIES FOR BURIED PIPES OR CABLES PRIOR TO ANY EXCAVATION.
7. LOCATIONS OF EXISTING UTILITIES ARE APPROXIMATE. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY THE CORRECT LOCATIONS TO AVOID DAMAGE OR DISTURBANCE TO THE EXISTING UTILITIES DURING CONSTRUCTION.
8. CONFIRM THE LOCATION AND ELEVATION OF EXISTING IMPROVEMENTS WITHIN THE AREA OF WORK PRIOR TO CONSTRUCTION OF NEW WORK. EXPLORATORY EXCAVATIONS REQUIRED TO LOCATE UNDERGROUND UTILITIES SHALL BE COMPLETED SUFFICIENTLY AHEAD OF CONSTRUCTION TO PERMIT REVISIONS TO PLANS REQUIRED BY DISCREPANCIES BETWEEN FIELD CONDITION AND THE PROJECT SURVEY. IMMEDIATELY NOTIFY THE ENGINEER OF ANY CONFLICTS.
9. THE DUTIES OF THE ENGINEER OF RECORD DO NOT INCLUDE DESIGN AND CONSTRUCTION REVIEW SERVICES RELATING TO THE CONTRACTORS SAFETY PRECAUTIONS OR TO THE MEANS, METHODS, TECHNIQUES, SEQUENCES, OR PROCEDURES REQUIRED FOR THE CONTRACTOR TO PERFORM HIS WORK.
10. SHORE TRENCHES AS REQUIRED BY REGULATORY AUTHORITIES AND AS NOTED ON PLANS. WHERE SHORING IS NOT IMPLEMENTED, CONTRACTOR'S MEANS AND METHODS SHALL DETERMINE THE WIDTH OF TRENCH.
11. ADJUST ALL EXISTING MANHOLE/CATCH BASIN RIMS, VALVE BOXES, AND UTILITY ACCESS STRUCTURES TO FINISH GRADE WITHIN AREA AFFECTED BY THE PROPOSED IMPROVEMENTS.
12. PROTECT AND/OR REMOVE AND REPLACE ALL EXISTING SIGNS DAMAGED OR DISTURBED BY CONSTRUCTION, UNLESS NOTED OTHERWISE.
13. COORDINATE ANY UTILITY AND BUILDING SHUT DOWNS AT LEAST 14-DAYS PRIOR TO CONSTRUCTION WITH THE WSU CONSTRUCTION MANAGER.
14. REPLACE DAMAGED EXISTING LANE STRIPING, SYMBOLS, AND/OR CROSSWALKS TO MATCH EXISTING, UNLESS NOTED OTHERWISE.
15. REPLACE AND/OR REPAIR UTILITY WARNING RIBBONS THAT ARE DAMAGED DURING CONSTRUCTION, UNLESS NOTED OTHERWISE.

ADA GENERAL NOTES:

THE FOLLOWING NOTES SHALL APPLY TO HARDSCAPE FACILITIES.

1. UNLESS OTHERWISE SPECIFIED ON THE PLANS CROSS SLOPES OF SIDEWALKS SHALL BE NOMINAL 1.5%. CROSS SLOPES SHALL NOT BE LESS THAN 1% NOR EXCEED 2%.
2. MAXIMUM SLOPES SHOWN ON THE PLANS REPRESENT THE MAXIMUM ALLOWABLE SLOPES PERMITTED BY CURRENT ADA REQUIREMENTS. THE CONTRACTOR SHALL TAKE INTO CONSIDERATION CONSTRUCTION TOLERANCES WHEN PLACING SIDEWALKS TO INSURE MAXIMUM SLOPES ARE NOT EXCEEDED.
3. COMPLETED SIDEWALKS OR OTHER HARDSCAPE ELEMENTS THAT EXCEED MAXIMUM SPECIFIED SLOPES OR ARE LESS THAN MINIMUM SPECIFIED SLOPES SHALL BE REMOVED AND REPLACED BY THE CONTRACTOR AT THE CONTRACTOR'S EXPENSE

TRAFFIC CONTROL NOTES:

1. ALL CONSTRUCTION SHALL COMPLY WITH CITY OF PULLMAN AND WSU CODES, STANDARDS, ORDINANCES, AND REQUIREMENTS.
2. PROVIDE A TRAFFIC CONTROL PLAN TO THE WSU PROJECT MANAGER FOR REVIEW AND APPROVAL A MINIMUM OF TWO WEEKS PRIOR TO THE START OF CONSTRUCTION.
3. TRAFFIC CONTROL PLAN SHALL CONFORM TO THE LATEST EDITION OF MUTCD GUIDELINES.
4. TRAFFIC CONTROL PLAN SHALL DESIGNATE THE HAUL ROUTE FOR CONSTRUCTION TRAFFIC.
5. CONSTRUCTION OPERATIONS SHALL BE PHASED IN SUCH A WAY THAT ONE LANE OF STADIUM WAY IN EACH DIRECTION WILL REMAIN OPEN AT ALL TIMES.
6. PROVIDE FLAGGERS/FLAGGING TO DIRECT TRAFFIC DURING ANY LANE CLOSURES.

DEMOLITION NOTES:

1. ALL WORK SHALL COMPLY WITH CITY OF PULLMAN AND WSU CODES, STANDARDS, ORDINANCES, AND REQUIREMENTS.
2. CONTRACTOR SHALL WALK THE SITE WITH THE OWNER OR OWNER'S REPRESENTATIVE PRIOR TO CONSTRUCTION TO VERIFY THE LIMIT OF WORK AND EXISTING FEATURES, UTILITIES, AND STRUCTURES TO REMAIN.
3. ANY EXISTING ITEMS INTENDED TO REMAIN THAT ARE DAMAGED DURING DEMOLITION OR CONSTRUCTION ACTIVITIES SHALL BE FULLY REPAIRED AT CONTRACTOR'S EXPENSE.
4. PROVIDE CONSTRUCTION FENCING, SIGNAGE, AND BARRIERS AS REQUIRED TO PREVENT UNAUTHORIZD ACCESS TO DEMOLITION AREAS. FIELD ADJUST AS REQUIRED.
5. PRIOR TO DEMOLITION ACTIVITIES, VERIFY THE DEPTH OF EXISTING UTILITIES TO REMAIN WITHIN THE LIMIT OF WORK.
6. UNDERGROUND PIPING AND STRUCTURES TO BE DEMOLISHED SHALL BE REMOVED COMPLETELY FROM THE GROUND UNLESS OTHERWISE APPROVED BY THE OWNER.
7. IMMEDIATELY REMOVE ALL DEMOLITION DEBRIS FALLING OUTSIDE THE LIMIT OF WORK. DISPOSE OF DEMOLITION MATERIAL OFF-SITE IN A SAFE AND LEGAL MANNER.
8. MAKE CLEAN SAW CUT BETWEEN PAVEMENT TO BE REMOVED/ REPLACED AND EXISTING PAVEMENT TO REMAIN.

SIGNAGE AND RRFB NOTES:

1. ALL WORK SHALL COMPLY WITH WSDOT STANDARD PLANS AND SPECIFICATIONS OR MUTCD, LATEST EDITION UNLESS OTHERWISE NOTED. SELECT WSDOT STANDARD PLANS ARE PROVIDED ON SHEET C3.1 FOR REFERENCE ONLY.
2. RECTANGULAR RAPID FLASHING BEACON SHALL BE SOLAR POWERED, DESIGNED WITH A MINIMUM ARRAY TO LOAD RATIO OF 1.2:1, AND CAPABLE OF AUTONOMOUS OPERATION FOR 5 DAYS MINIMUM. COORDINATE ORIENTATION OF SOLAR PANEL WITH WSU PROJECT MANAGER TO OBTAIN MAXIMUM SUN EXPOSURE.
3. RRFB AND ASSOCIATED EQUIPMENT SHALL BE INSTALLED PER MANUFACTURER'S RECOMMENDATIONS.
4. DEMOLISH EXISTING FLASHING BEACONS WHERE REPLACED WITH RRFB. WHERE EXISTING BEACONS ARE HARD WIRED, DISCONNECT AT NEAREST JUNCTION BOX. CAUTION! COORDINATE POWER DE-ENERGIZATION WITH WSU PRIOR TO PERFORMING ELECTRICAL DEMOLITION.

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CROSSWALK
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2425 EAST GRIMES WAY
PULLMAN, WA 99164

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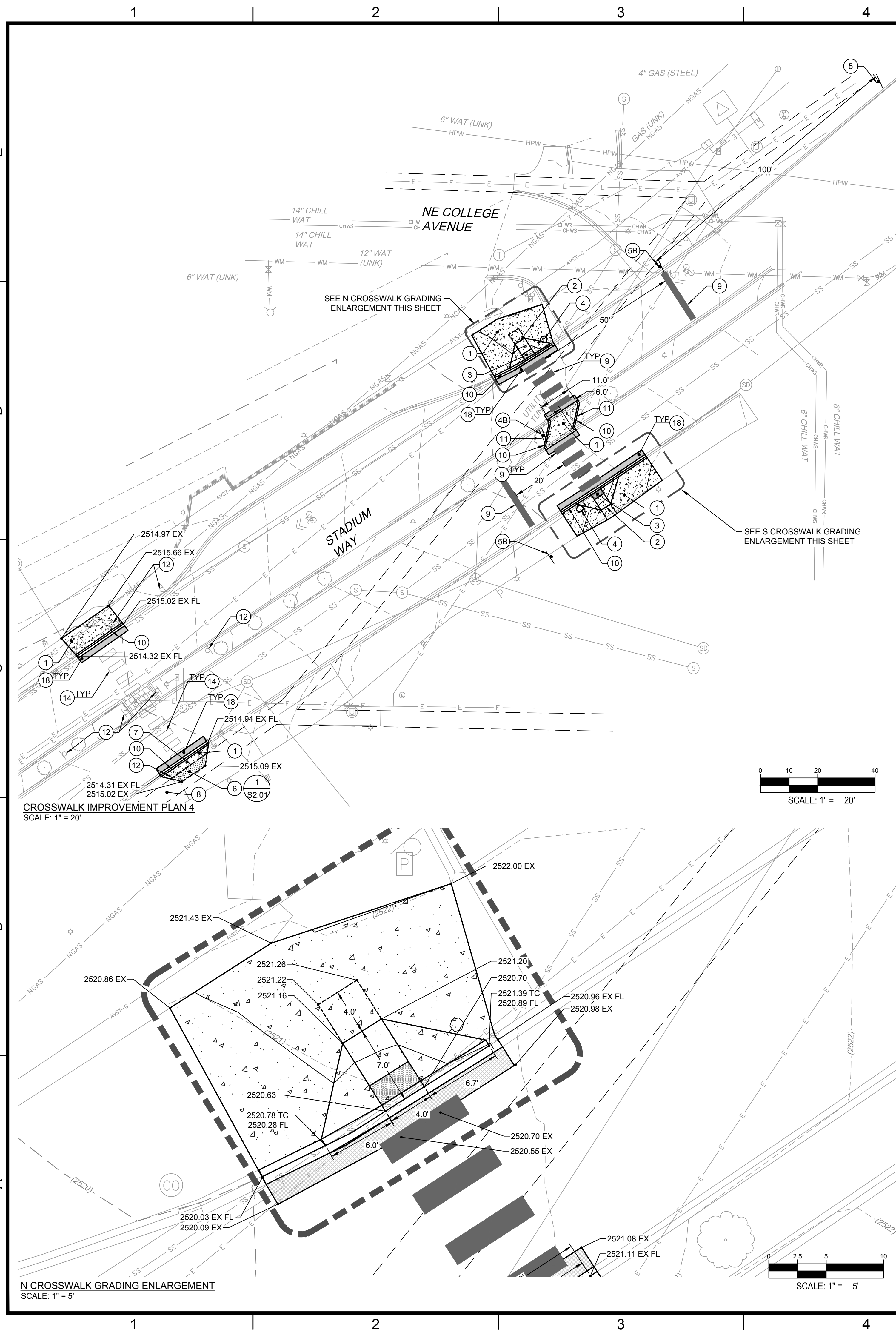
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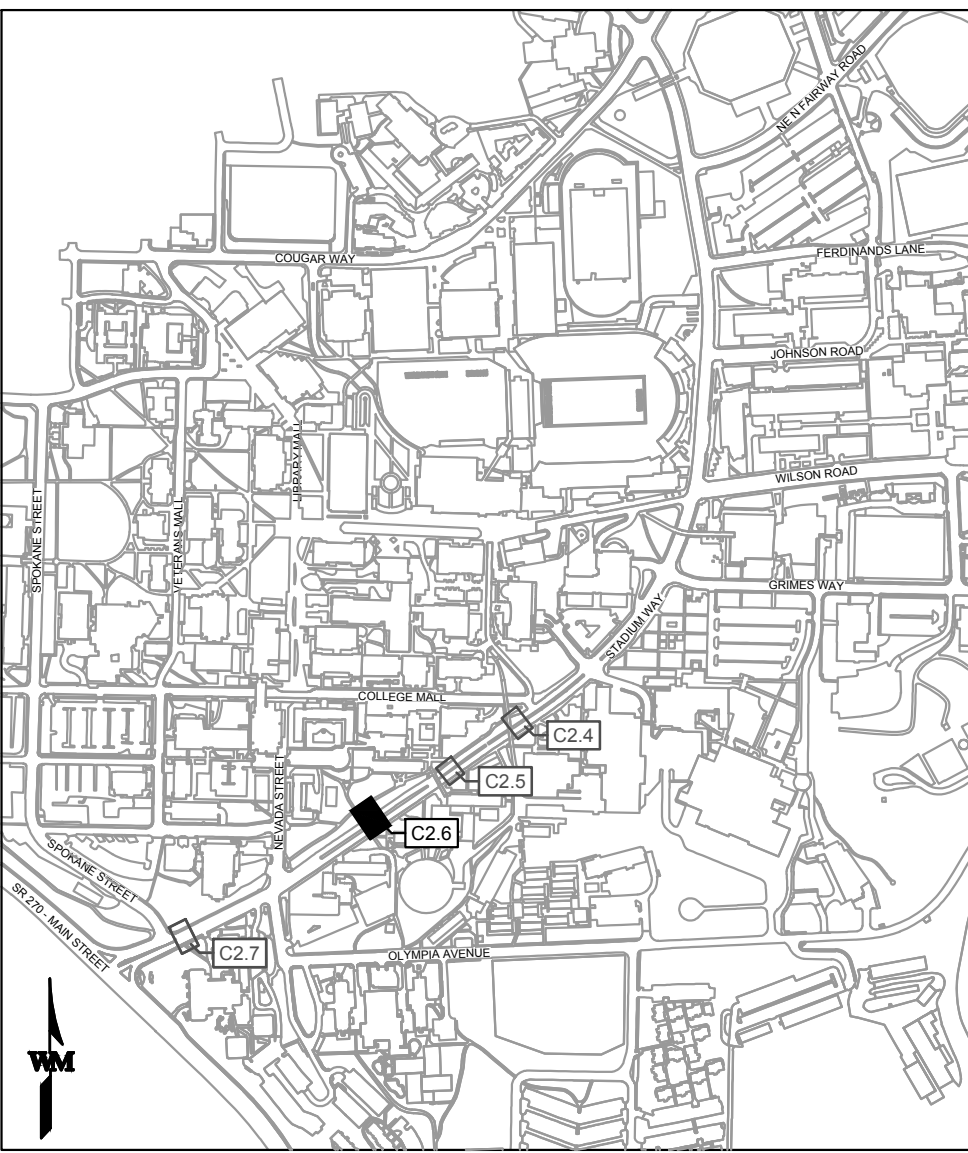
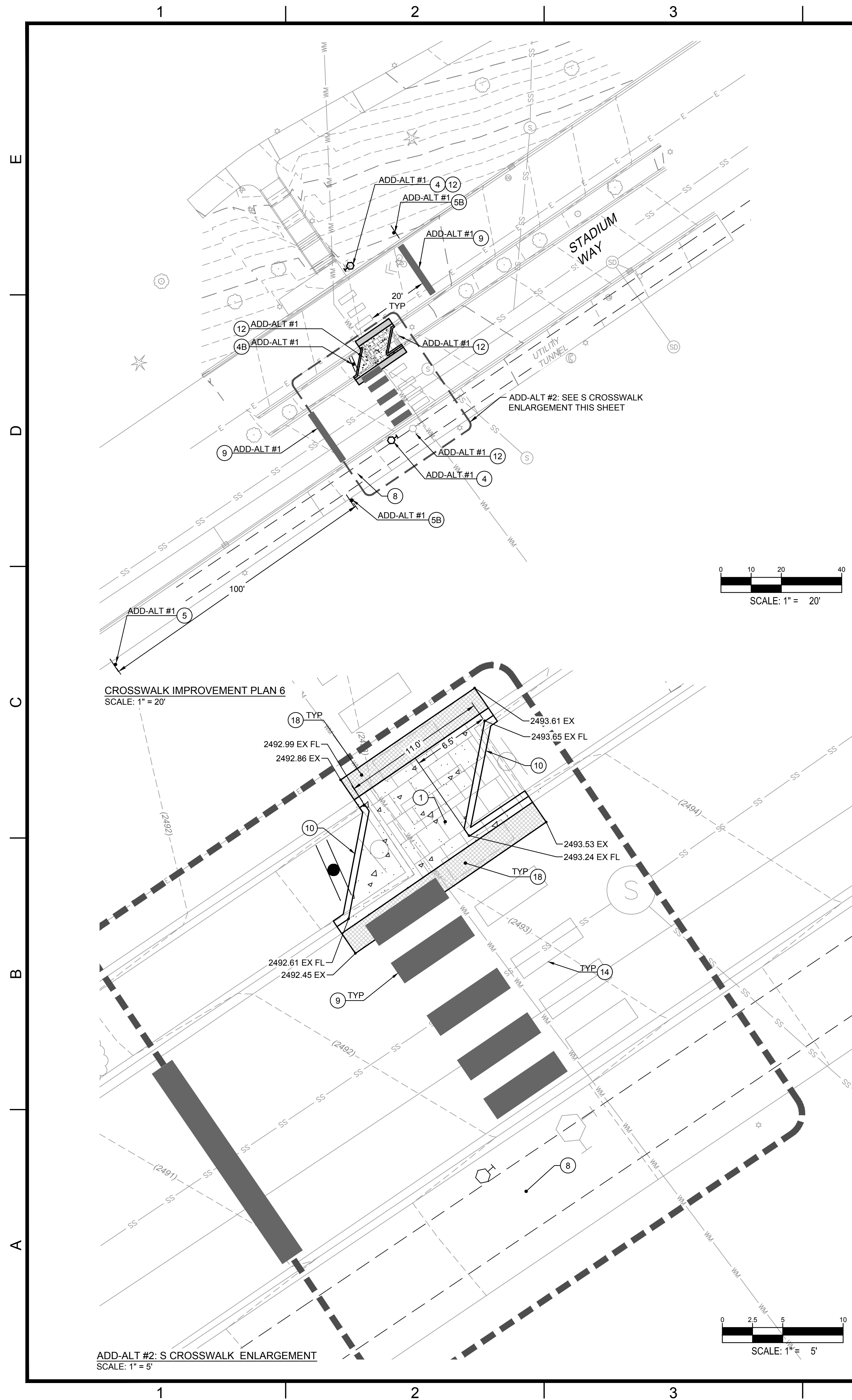
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GENERAL
NOTES

C1.1

SHEET 2 OF 13 SHEETS





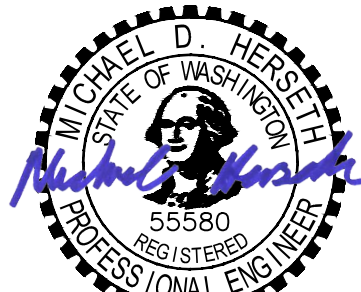
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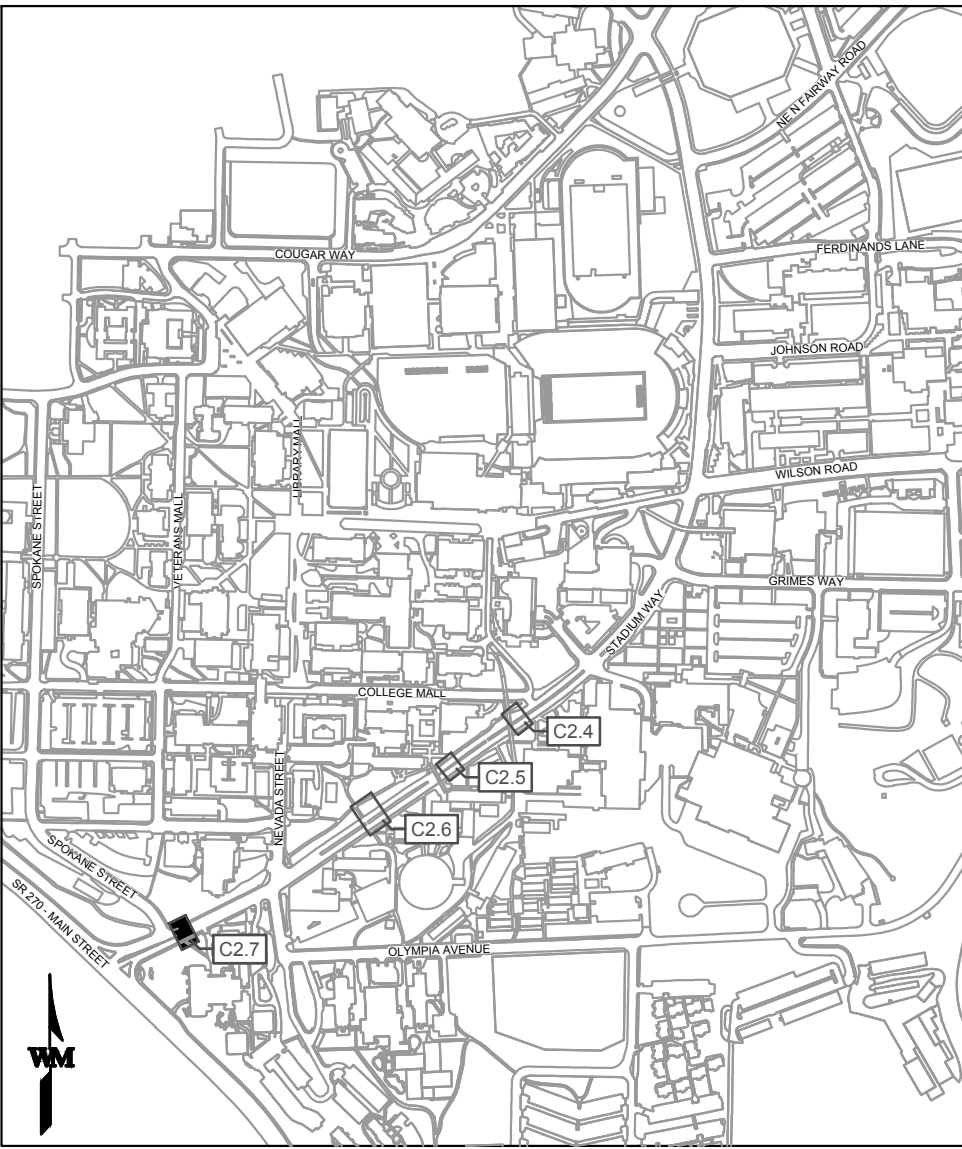
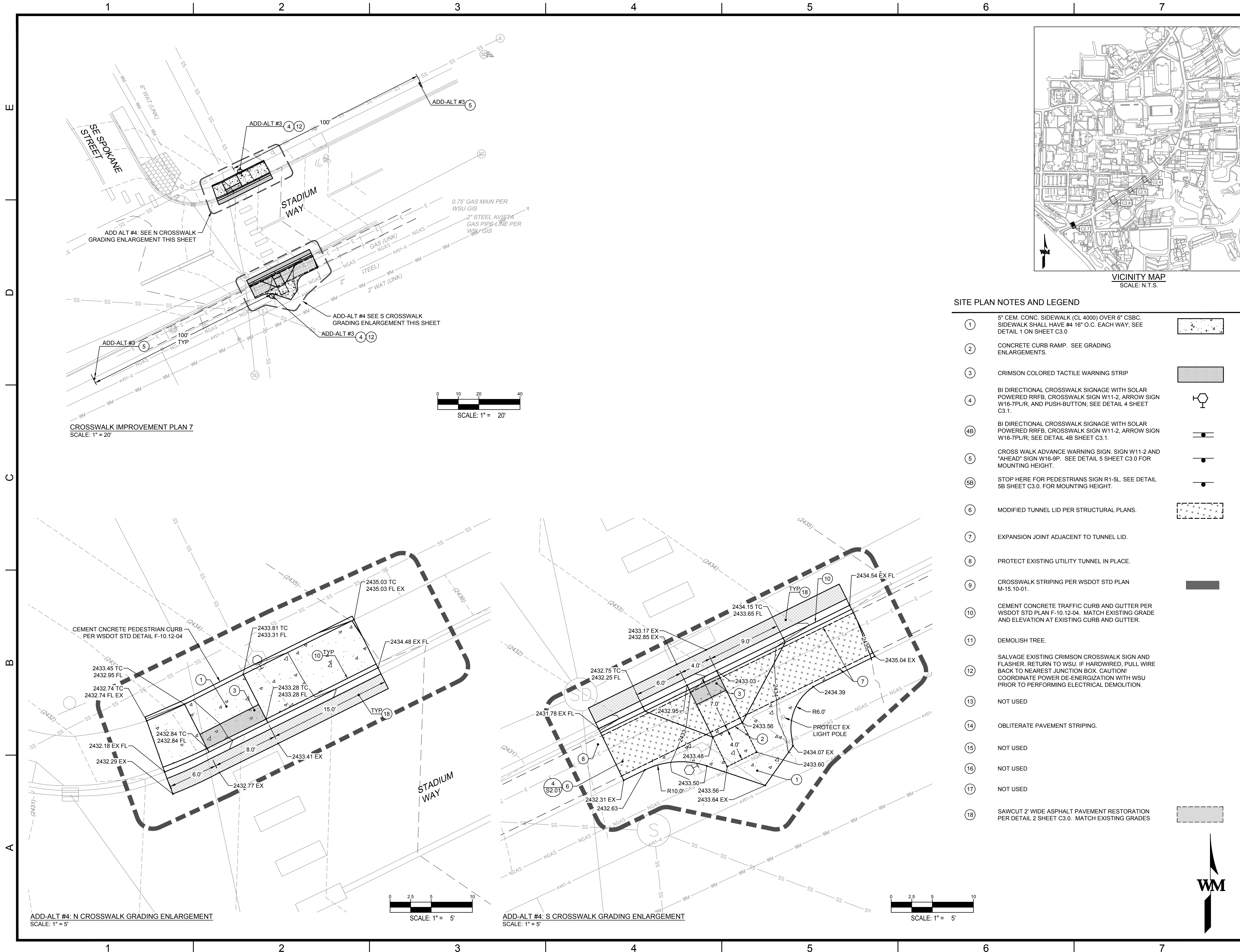
SITE PLAN

3

C2.6

SHEET 5 OF 13 SHEETS

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VICINITY MAP
SCALE: N.T.S.

SITE PLAN NOTES AND LEGEND

- 1 5" CEM. CONC. SIDEWALK (CL 4000) OVER 6" CSBC. SIDEWALK SHALL HAVE #4 16" O.C. EACH WAY; SEE DETAIL 1 ON SHEET C3.0
- 2 CONCRETE CURB RAMP. SEE GRADING ENLARGEMENTS.
- 3 CRIMSON COLORED TACTILE WARNING STRIP
- 4 BI DIRECTIONAL CROSSWALK SIGNAGE WITH SOLAR POWERED RRFB, CROSSWALK SIGN W11-2, ARROW SIGN W16-7PL/R, AND PUSH-BUTTON; SEE DETAIL 4 SHEET C3.1.
- 4B BI DIRECTIONAL CROSSWALK SIGNAGE WITH SOLAR POWERED RRFB, CROSSWALK SIGN W11-2, ARROW SIGN W16-7PL/R, SEE DETAIL 4B SHEET C3.1.
- 5 CROSS WALK ADVANCE WARNING SIGN. SIGN W11-2 AND "AHEAD" SIGN W16-9P. SEE DETAIL 5 SHEET C3.0 FOR MOUNTING HEIGHT.
- 5B STOP HERE FOR PEDESTRIANS SIGN R1-5L. SEE DETAIL 5B SHEET C3.0. FOR MOUNTING HEIGHT.
- 6 MODIFIED TUNNEL LID PER STRUCTURAL PLANS.
- 7 EXPANSION JOINT ADJACENT TO TUNNEL LID.
- 8 PROTECT EXISTING UTILITY TUNNEL IN PLACE.
- 9 CROSSWALK STRIPING PER WSDOT STD PLAN M-15.10-01.
- 10 CEMENT CONCRETE TRAFFIC CURB AND GUTTER PER WSDOT STD PLAN F-10.12-04. MATCH EXISTING GRADE AND ELEVATION AT EXISTING CURB AND GUTTER.
- 11 DEMOLISH TREE.
- 12 SALVAGE EXISTING CRIMSON CROSSWALK SIGN AND FLASHER. RETURN TO WSU. IF HARDWIRED, PULL WIRE BACK TO NEAREST JUNCTION BOX. CAUTION! COORDINATE POWER DE-ENERGIZATION WITH WSU PRIOR TO PERFORMING ELECTRICAL DEMOLITION.
- 13 NOT USED
- 14 OBLITERATE PAVEMENT STRIPING.
- 15 NOT USED
- 16 NOT USED
- 17 NOT USED
- 18 SAWCUT 2' WIDE ASPHALT PAVEMENT RESTORATION PER DETAIL 2 SHEET C3.0. MATCH EXISTING GRADES

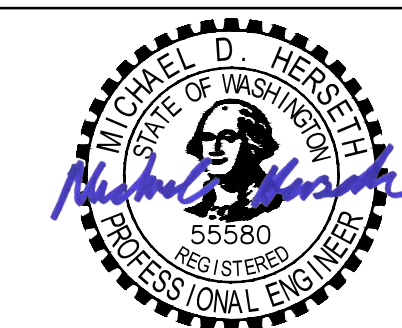
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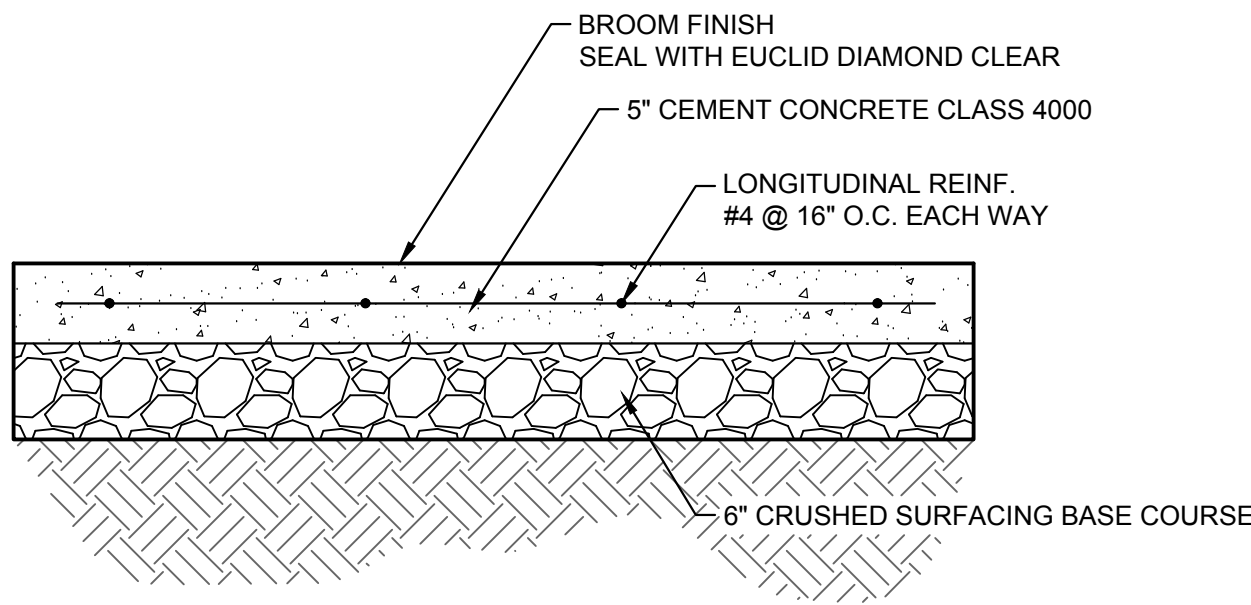
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SHEET TITLE
SITE PLAN
4

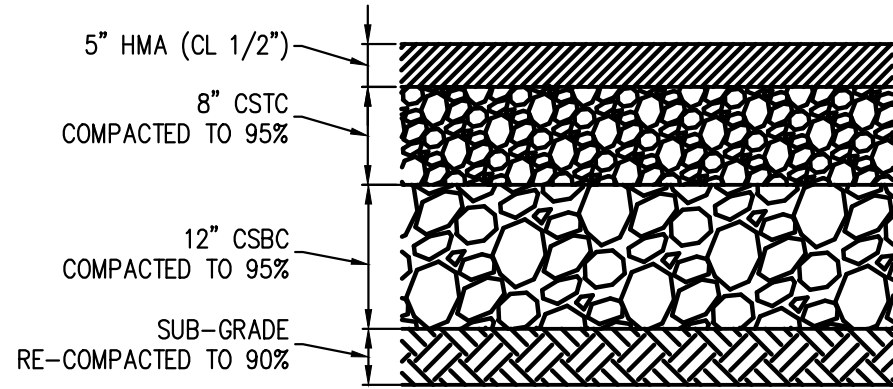
C2.7
SHEET 6 OF 13 SHEETS

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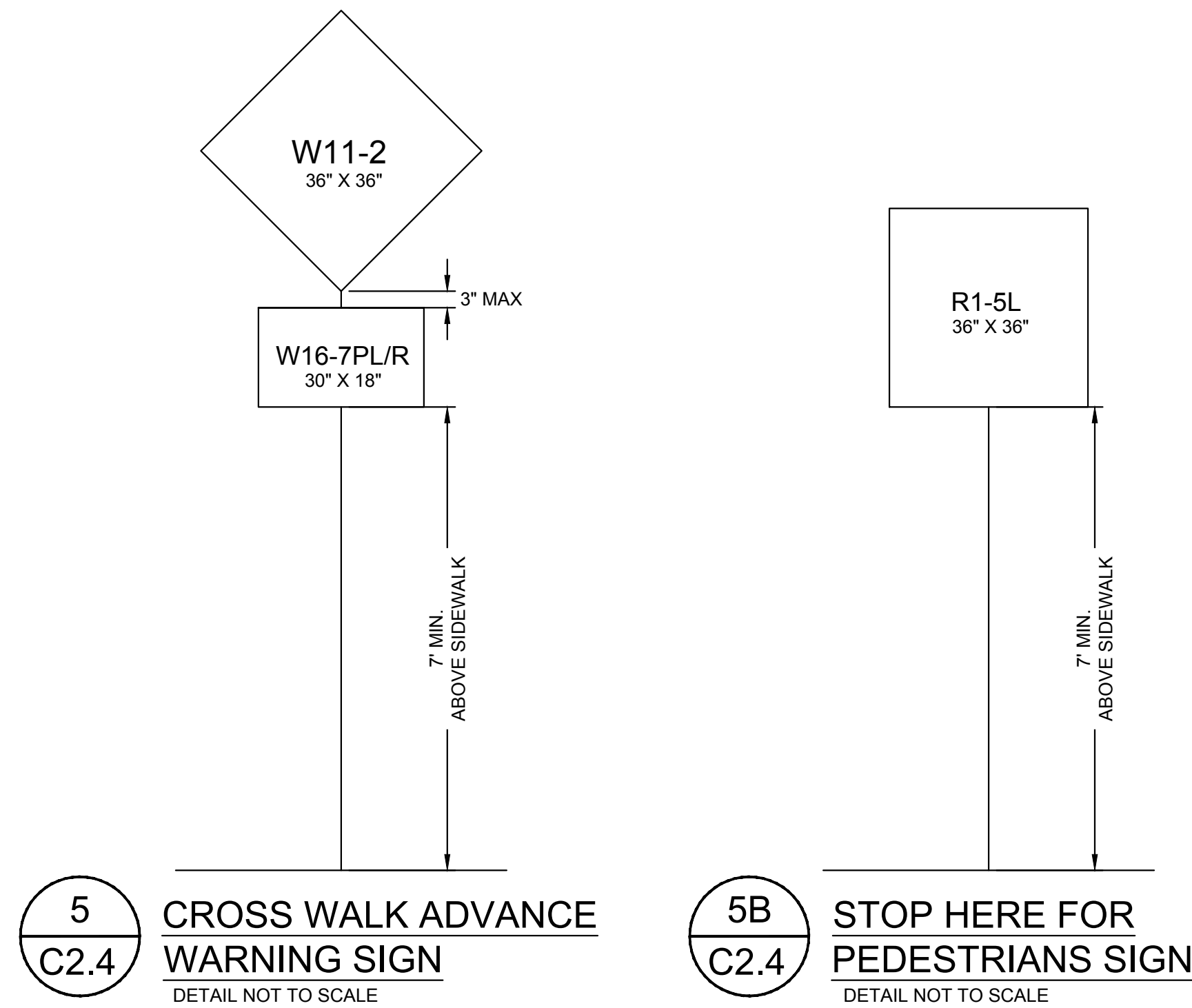
NOTES
1. NEW CONCRETE SIDEWALK SHALL BE CURED AND SEALED WITH EUCLID DIAMOND CLEAR. APPLY DIAMOND CLEAR PER MANUFACTURER'S RECOMMENDATIONS.

1
C2.4 5" REINFORCED CONCRETE SIDEWALK
DETAIL NOT TO SCALE



NOTES
1. MATCH EXISTING PAVEMENT SECTION IF GREATER

2
C2.4 ASPHALT PAVEMENT RESTORATION
DETAIL NOT TO SCALE



5
C2.4 CROSS WALK ADVANCE WARNING SIGN
DETAIL NOT TO SCALE

5B
C2.4 STOP HERE FOR PEDESTRIANS SIGN
DETAIL NOT TO SCALE

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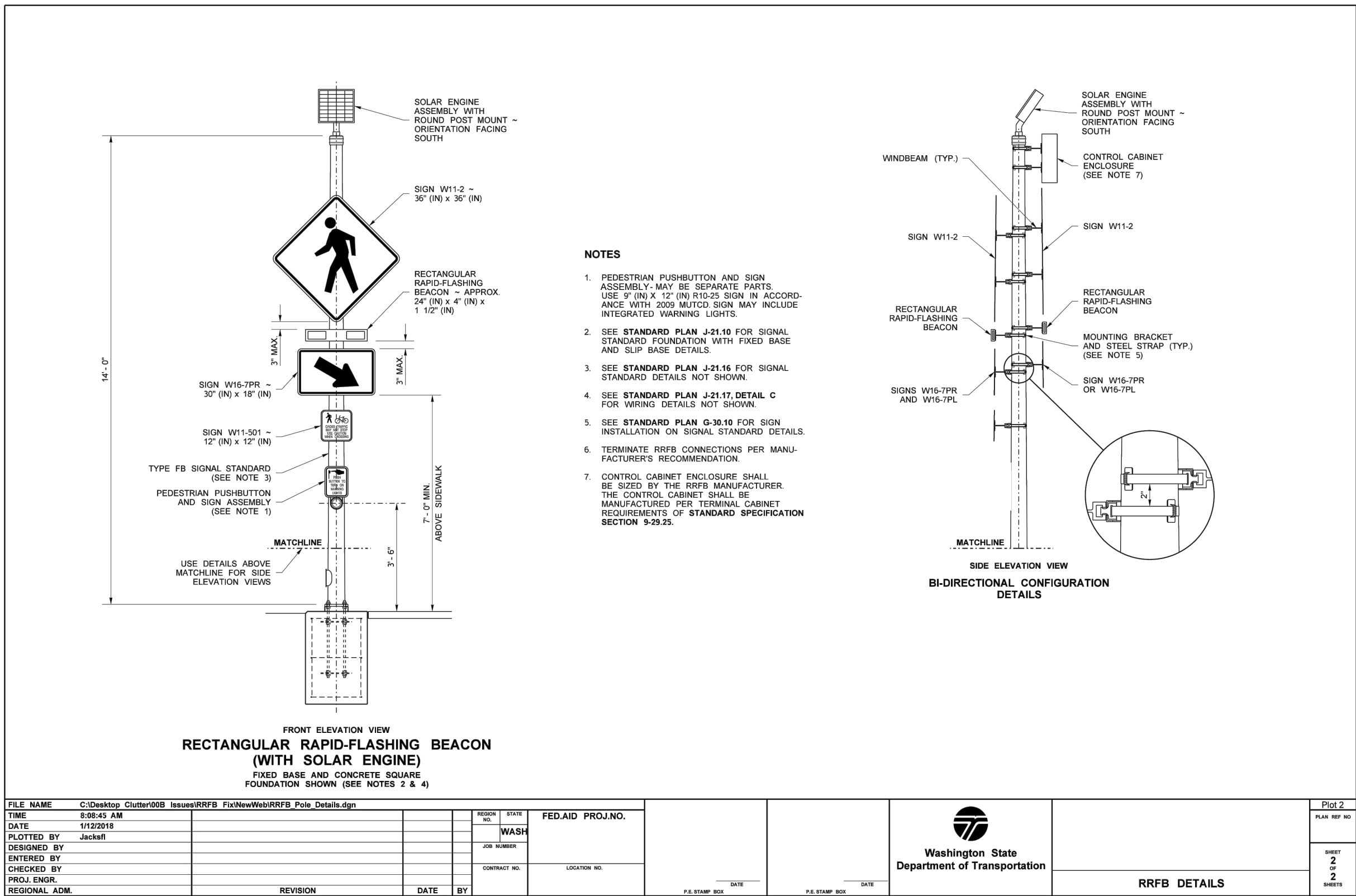
**SECTIONS
& DETAILS**

C3.0

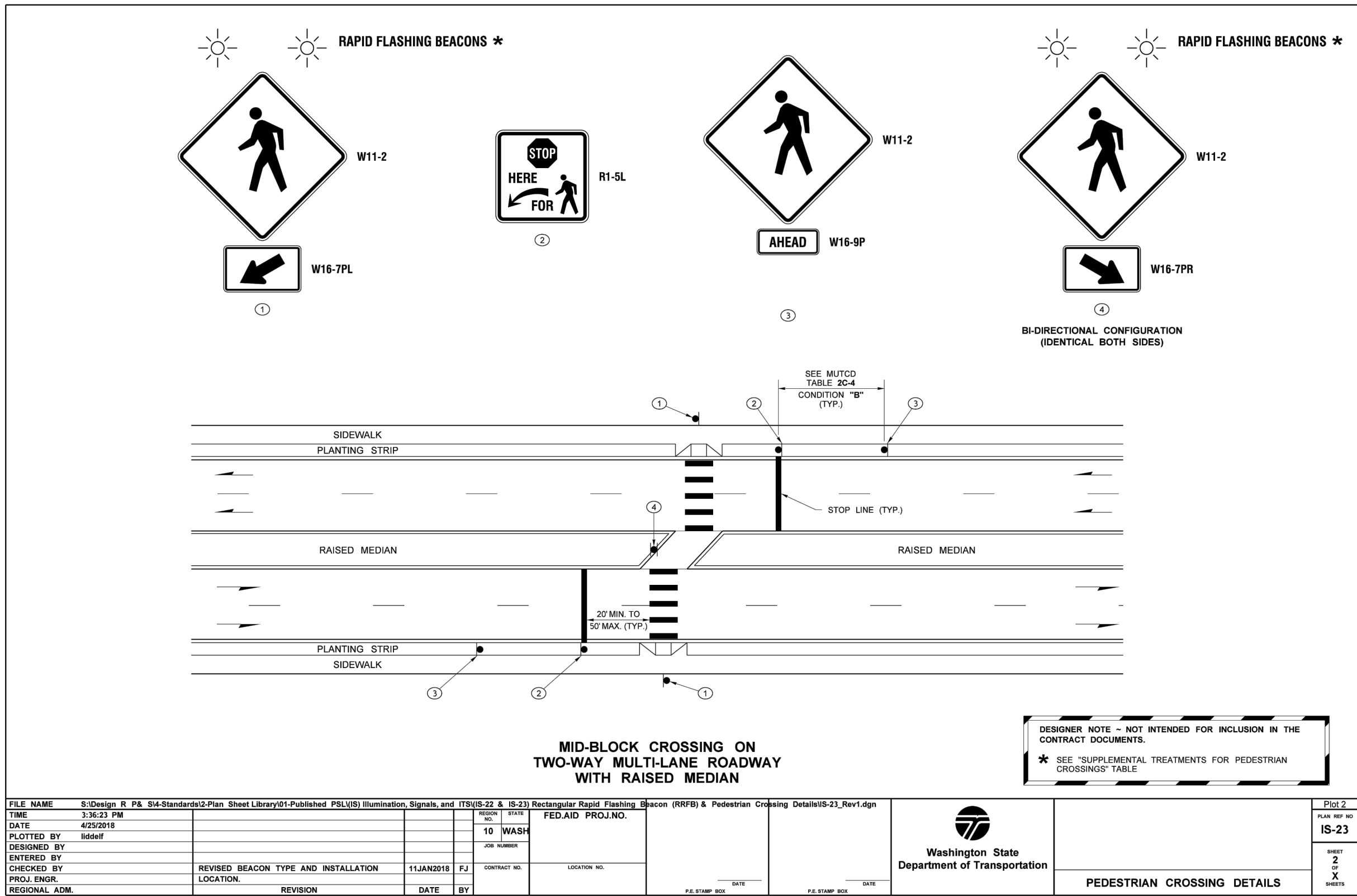
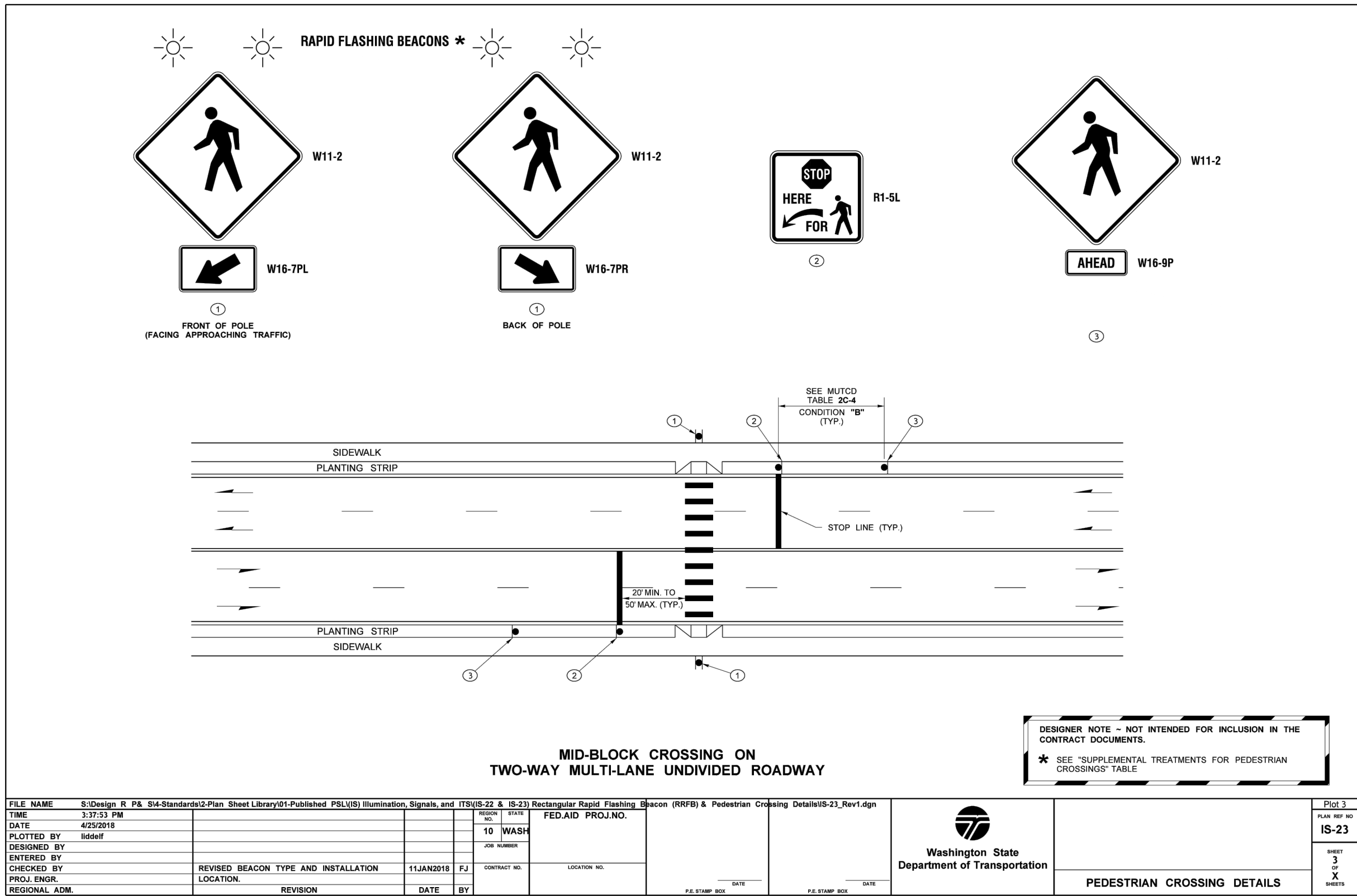
SHEET 7 OF 13 SHEETS

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E
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C
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A



4 4B RRFB - BI-DIRECTIONAL
C2.4 C2.4 DETAIL NOT TO SCALE



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02/07/2024

WASHINGTON STATE
UNIVERSITY

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Pullman, Wa. 99164-1150

STADIUM WAY
CROSSWALK
IMPROVEMENTS

2425 EAST GRIMES WAY
PULLMAN, WA 99164

MARK	DATE	DESCRIPTION
3	02/07/24	BID DOCUMENTS
2	11/28/23	90% BID DOCUMENTS
1	10/13/23	SCHEMATIC DESIGN

CAD DWG FILE: SEA23-4003

DESIGN BY: JG

DRAWN BY: JG

CHECKED BY: MH

PROJECT No. 2001-2023

FILE No. 734H-026

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SHEET TITLE

SECTIONS
& DETAILS

C3.1

SHEET 8 OF 13 SHEETS

FILE: G:\2023 jobs\23679 WSU Stadium Way Crosswalks\Drawings\23679 GN.dwg PLOT DATE: November 10, 2022, 1:42 PM ORIGINAL PAPER SIZE: 24" x 36"

GENERAL NOTES

THESE GENERAL NOTES ARE TO BE USED AS A SUPPLEMENT TO THE SPECIFICATIONS. ANY DISCREPANCIES FOUND AMONG THE DRAWINGS, THE SPECIFICATIONS, THESE GENERAL NOTES AND THE SITE CONDITIONS SHALL BE REPORTED TO THE ARCHITECT, WHO SHALL CORRECT SUCH DISCREPANCY IN WRITING. ANY WORK DONE BY THE GENERAL CONTRACTOR AFTER DISCOVERY OF SUCH DISCREPANCY SHALL BE DONE AT THE GENERAL CONTRACTOR'S RISK. THE GENERAL CONTRACTOR SHALL VERIFY AND COORDINATE DIMENSIONS AMONG ALL DRAWINGS PRIOR TO PROCEEDING WITH ANY WORK OR FABRICATION. THE STRUCTURE HAS BEEN DESIGNED TO RESIST CODE SPECIFIED VERTICAL AND LATERAL FORCES AFTER THE CONSTRUCTION OF ALL STRUCTURAL ELEMENTS HAS BEEN COMPLETED. STABILITY OF THE STRUCTURE PRIOR TO COMPLETION IS THE SOLE RESPONSIBILITY OF THE GENERAL CONTRACTOR. THIS RESPONSIBILITY INCLUDES BUT IS NOT LIMITED TO JOB SITE SAFETY; ERECTION MEANS, METHODS, AND SEQUENCES; TEMPORARY SHORING, FORMWORK, BRACING; USE OF EQUIPMENT AND CONSTRUCTION PROCEDURES. PROVIDE ADEQUATE RESISTANCE TO LOADS ON THE STRUCTURES DURING CONSTRUCTION PER SEI/ASCE STANDARD NO. 37-14 "DESIGN LOADS ON STRUCTURES DURING CONSTRUCTION."

CONSTRUCTION OBSERVATION BY THE STRUCTURAL ENGINEER IS FOR GENERAL CONFORMANCE WITH DESIGN ASPECTS ONLY AND IS NOT INTENDED IN ANY WAY TO REVIEW THE CONTRACTOR'S CONSTRUCTION PROCEDURES.

STANDARDS

ALL METHODS, MATERIALS AND WORKMANSHIP SHALL CONFORM TO THE 2018 INTERNATIONAL BUILDING CODE (IBC) AS AMENDED AND ADOPTED BY THE LOCAL BUILDING OFFICIAL OR APPLICABLE JURISDICTION.

CONTRACT DRAWINGS / DIMENSIONS

CIVIL DRAWINGS ARE THE PRIME CONTRACT DRAWINGS. CONSULTANT DRAWINGS BY OTHER DISCIPLINES ARE SUPPLEMENTARY TO ARCHITECTURAL DRAWINGS. REPORT DIMENSIONAL OMISSIONS OR DISCREPANCIES BETWEEN CIVIL DRAWINGS AND STRUCTURAL, MECHANICAL, ELECTRICAL OR ARCHITECTURAL DRAWINGS TO ARCHITECT PRIOR TO PROCEEDING WITH WORK.

STRUCTURAL DRAWINGS SHALL BE USED IN CONJUNCTION WITH CIVIL DRAWINGS. PRIMARY STRUCTURAL ELEMENTS ARE DIMENSIONED ON STRUCTURAL PLANS AND DETAILS AND OVERALL LAYOUT OF STRUCTURAL PORTION OF WORK. SOME SECONDARY ELEMENTS ARE NOT DIMENSIONED, SUCH AS WALL CONFIGURATIONS, INCLUDING EXACT DOOR AND WINDOW LOCATIONS, ALCOVES, SLAB SLOPES AND DEPRESSIONS, CURBS, ETC. VERTICAL DIMENSIONAL CONTROL IS DEFINED BY ARCHITECTURAL WALL SECTIONS AND BUILDING SECTIONS. STRUCTURAL DETAILS SHOW DIMENSIONAL RELATIONSHIPS TO CONTROL DIMENSIONS DEFINED BY ARCHITECTURAL DRAWINGS. DETAILING AND SHOP DRAWING PRODUCTION FOR STRUCTURAL ELEMENTS WILL REQUIRE DIMENSIONAL INFORMATION CONTAINED IN BOTH ARCHITECTURAL AND STRUCTURAL DRAWINGS.

DESIGN CRITERIA

VERTICAL LOADS

AREA	DESIGN DEAD LOAD	LIVE LOAD (2)	SNOW LOAD	CONCENTRATED LOADS
SIDE WALK	ACTUAL	250 PSF	30 PSF	HS-20 LOADING

FOUNDATION DESIGN CRITERIA:

SOIL BEARING PRESSURE: 5000 PSF (ASSUMED)*

ACTIVE PRESSURE - RESTRAINED: 50 PCF +14H SEISMIC SURCHARGE (ASSUMED)
ACTIVE PRESSURE - UNRESTRAINED: 35 PCF +6H SEISMIC SURCHARGE (ASSUMED)
PASSIVE RESISTANCE: 300 PCF (INCLUDES F.O.S. ≥ 1.5) (ASSUMED)
COEFFICIENT OF FRICTION: .35 (INCLUDES F.O.S. ≥ 1.5) (ASSUMED)
*1/3 INCREASE ALLOWED FOR SEISMIC OR WIND LOADING

ALL FOOTINGS SHALL BEAR ON FIRM, UNDISTURBED EARTH OR "STRUCTURAL BACKFILL". NATIVE EARTH BEARING SHALL BE SURFACE COMPACTED. AREAS OVER-EXCAVATED SHALL BE BACKFILLED WITH LEAN CONCRETE (F'c=2000 PSI) OR "STRUCTURAL BACKFILL". AREAS DESIGNATED "STRUCTURAL BACKFILL" SHALL BE FILLED WITH APPROVED WELL-GRADED BANKRUN MATERIAL. MAXIMUM SIZE OF ROCK 4". FROZEN SOIL, ORGANIC MATERIAL AND DELETERIOUS MATTER NOT ALLOWED. COMPACT TO AT LEAST 95% OF ITS MAXIMUM DENSITY AS DETERMINED BY ASTM D1557. CONTRACTOR SHALL EXERCISE EXTREME CARE DURING EXCAVATION TO AVOID DAMAGE TO BURIED LINES, TANKS, AND OTHER CONCEALED ITEMS. UPON DISCOVERY, DO NOT PROCEED WITH WORK UNTIL RECEIVING WRITTEN INSTRUCTIONS FROM ARCHITECT. A COMPETENT REPRESENTATIVE OF THE OWNER SHALL INSPECT ALL FOOTING EXCAVATIONS FOR SUITABILITY OF BEARING SURFACES PRIOR TO PLACEMENT OF REINFORCING STEEL. PROVIDE DRAINAGE AND DEWATERING AROUND ALL WORK TO AVOID WATER-SOFTENED FOOTINGS.

CONCRETE

CAST-IN-PLACE CONCRETE

MIX DESIGNS: THE CONTRACTOR SHALL DESIGN CONCRETE MIXES THAT MEET OR EXCEED THE REQUIREMENTS OF THE CONCRETE MIX TABLE. THE MIX DESIGNS SHALL FACILITATE ANTICIPATED PLACEMENT METHODS, WEATHER, REBAR CONGESTION, ARCHITECTURAL FINISHES, CONSTRUCTION SEQUENCING, STRUCTURAL DETAILS, AND ALL OTHER FACTORS REQUIRED TO PROVIDE A STRUCTURALLY SOUND, AESTHETICALLY ACCEPTABLE FINISHED PRODUCT. WATER REDUCING ADMIXTURES WILL LIKELY BE REQUIRED TO MEET THESE REQUIREMENTS. CONCRETE MIX DESIGNS SHALL CLEARLY INDICATE THE TARGET SLUMP. SLUMP TOLERANCE SHALL BE ± 1-1/2 INCHES.

AGGREGATE: COARSE AND FINE AGGREGATE SHALL CONFORM TO ASTM C33

CEMENT: CEMENT SHALL CONFORM TO ASTM C150, TYPE II PORTLAND CEMENT, UNLESS NOTED OTHERWISE.

FLYASH: SHALL CONFORM TO ASTM C618 CLASS C OR F, MAXIMUM LOSS OF IGNITION SHALL BE 1.0%.

SLAG: GROUND GRANULATED BLAST-FURNACE (GGBF) SLAG SHALL CONFORM TO ASTM C989 GRADE 100 OR 120.

ALTERNATE MIX DESIGNS: VARIATIONS TO THE MIX DESIGN PROPORTIONS MAY BE ACCEPTED IF SUBSTANTIATED IN ACCORDANCE WITH ACI 318, CHAPTER 19. PROVIDE SUBMITTALS A MINIMUM OF TWO WEEKS PRIOR TO BID FOR DETERMINATION OF ACCEPTABILITY.

ADMIXTURES: ADMIXTURES SHALL BE BY MASTER BUILDERS, W.R. GRACE, OR PRE-APPROVED EQUAL. ALL MANUFACTURERS RECOMMENDATIONS SHALL BE FOLLOWED.

WATER: SHALL BE CLEAN AND POTABLE.

MAXIMUM CHLORIDE CONTENT: THE MAXIMUM WATER SOLUBLE CHLORIDE CONTENT SHALL NOT EXCEED 0.15% BY WEIGHT OF CEMENTITIOUS MATERIAL UNLESS NOTED OTHERWISE.

CONCRETE EXPOSED TO WEATHER: PROVIDE 5.0% TOTAL AIR CONTENT FOR ALL CONCRETE EXPOSED TO WEATHER. TOTAL AIR CONTENT IS THE SUM OF ENTRAINED AIR PROVIDED BY ADMIXTURES AND NATURALLY OCCURRING ENTRAPPED AIR. AIR CONTENT SHALL BE TESTED PRIOR TO BEING PLACED IN THE PUMP HOPPER OR BUCKET; IT IS NOT REQUIRED TO BE TESTED AT THE DISCHARGE END OF THE PUMP HOSE. THE TOLERANCE ON ENTRAPPED AIR SHALL BE +2.0% AND -1.5% WITH THE AVERAGE OF ALL TESTS NOT LESS THAN THE SPECIFIED AMOUNT.

TOTAL CEMENTITIOUS MATERIAL: THE SUM OF ALL CEMENT PLUS FLYASH AND SLAG. AT THE CONTRACTORS OPTION FLYASH OR SLAG MAY BE SUBSTITUTED FOR CEMENT BUT SHALL NOT EXCEED 25% BY WEIGHT OF TOTAL CEMENTITIOUS MATERIAL. IN NO CASE SHALL THE AMOUNT OF FLYASH OR SLAG BE LESS THAN REQUIRED BY THE CONCRETE MIX DESIGN TABLE. FOOTING MIXES SHALL CONTAIN NOT LESS THAN 5 SACKS OF CEMENTITIOUS MATERIAL PER CUBIC YARD, ALL OTHER MIXES SHALL CONTAIN NOT LESS THAN 5-1/2 SACKS OF CEMENTITIOUS MATERIAL PER CUBIC YARD, UNLESS NOTED OTHERWISE.

ITEM	DESIGN f'c (PSI) (AT 28 DAYS U.N.O.)	MAX. W/C RATIO	MIN. FLYASH OR SLAG (PCY)	AGGREGATE GRADING ASTM AASHTO	NOTES
TUNNEL SLAB - EXPOSED TO WEATHER	5000	0.40	100	57 OR 67	1
ALL OTHER CONCRETE	5000	0.40	100	57 OR 67	

1. PROVIDE 3.0 GAL/CU YARD OF DCI S CORROSION INHIBITOR BY GCP APPLIED TECHNOLOGIES THAT SHALL MEET ASTM C1582 OR PRE-APPROVED EQUAL. PROVIDE HIGH-RANGE WATER REDUCERS AS REQUIRED PER MANUFACTURER'S RECOMMENDATIONS. PROVIDE ADDITIONAL AIR ENTRAINMENT AS REQUIRED.

CONCRETE PLACEMENT

PLACE CONCRETE FOLLOWING ALL APPLICABLE ACI RECOMMENDATIONS. CONCRETE SHALL BE PROPERLY CONSOLIDATED PER ACI 309 USING INTERIOR MECHANICAL VIBRATORS, DO NOT OVER-VIBRATE. CONCRETE SHALL BE POURED MONOLITHICALLY BETWEEN CONSTRUCTION OR EXPANSION JOINTS. IF CONCRETE IS PLACED BY THE PUMP METHOD, HORSES SHALL BE PROVIDED TO SUPPORT THE HOSE, THE HOSE SHALL NOT BE ALLOWED TO RIDE ON THE REINFORCING. WEATHER FORECASTS SHALL BE MONITORED AND ACI RECOMMENDATIONS FOR HOT AND COLD WEATHER CONCRETING SHALL BE FOLLOWED AS REQUIRED. CONCRETE SHALL NOT FREE FALL MORE THAN 5 FEET DURING PLACEMENT WITHOUT WRITTEN APPROVAL OF STRUCTURAL ENGINEER.

FLOATING & FINISHING OPERATIONS:

WATER SHALL NOT BE ADDED TO THE CONCRETE SURFACE DURING FLOATING & FINISHING OPERATIONS. PRE-APPROVED EVAPORATION RETARDER SPECIFICALLY DESIGNED FOR FLOATING & FINISHING OPERATIONS ARE ACCEPTABLE.

FORMED SURFACES:

FORMWORK CLASS OF SURFACE PER ACI 347 TABLE 3.1	
ITEM	CLASS OF FINISH
ALL SURFACES EXPOSED TO PUBLIC VIEW, U.N.O.	A
ALL SURFACES RECEIVING A COURSE TEXTURED COATING SUCH AS PLASTER OR STUCCO, UNLESS NOTED OTHERWISE	B
ALL OTHER SURFACES, UNLESS NOTED OTHERWISE	C

COLD WEATHER PLACEMENT

- COLD WEATHER IS DEFINED BY ACI 306 AS "A PERIOD WHEN FOR MORE THAN 3 SUCCESSIVE DAYS THE MEAN DAILY TEMPERATURE DROPS BELOW 40° F."
- NO CONCRETE SHALL BE PLACED ON FROZEN OR PARTIALLY FROZEN GROUND. THAWING THE GROUND WITH HEATERS IS PERMISSIBLE.
- CONCRETE MIX TEMPERATURES SHALL BE AS SHOWN BELOW. HEATING OF WATER AND/OR AGGREGATES MAY BE REQUIRED TO ATTAIN THESE TEMPERATURES.
- THE CONCRETE MAY REQUIRE PROTECTION FOR 4-7 DAYS AFTER POURING. IF TEMPERATURES REMAIN BELOW FREEZING, INSULATING BLANKET COVERAGE IS REQUIRED. IF TEMPERATURES ARE SLIGHTLY BELOW FREEZING (30° F MIN.) AT NIGHT AND ABOVE FREEZING DURING THE DAY, KRAFT PAPER WITH COMPLETE COVERAGE MAY BE USED IN LIEU OF INSULATED BLANKETS.
- NO ADDITIVES CONTAINING CHLORIDES SHALL BE USED. USE "POZZUTEC 20+" BY MASTER BUILDERS OR "POLARSET" BY W.R. GRACE OR PRE-APPROVED EQUAL.

CONDITION OF PLACEMENT AND CURING		WALLS & SLABS	FOOTINGS
MIN. TEMP. FRESH CONCRETE AS MIXED FOR WEATHER INDICATED. DEGREES F.	ABOVE 30° F.	60°	55°
	0 TO 30° F.	65°	60°
	BELOW 0° F.	70°	65°
MIN. TEMP. FRESH CONCRETE AS PLACED AND MAINTAINED, DEGREES F.		55°	50°
MAX. ALLOWABLE GRADUAL DROP IN TEMP. THROUGHOUT FIRST 24 HOURS AFTER END OF PROTECTION, DEGREES F.		50°	40°

HOT OR WINDY WEATHER PLACEMENT

HOT WEATHER IS DEFINED BY ACI 305 AS "ANY COMBINATION OF HIGH AIR TEMPERATURE, LOW RELATIVE HUMIDITY, AND WIND VELOCITY, TENDING TO IMPAIR THE QUALITY OF FRESH HARDENED CONCRETE.. ACI 305 FIGURE 2.1.5 SHALL BE USED BY THE CONTRACTOR TO ESTIMATE THE RATE OF EVAPORATION. WHEN THE ESTIMATED RATE OF EVAPORATION IS GREATER THAN 0.2 PSF/HOUR THE PLACEMENT SHALL BE CONSIDERED A HOT WEATHER PLACEMENT. PRECAUTIONS AGAINST PLASTIC SHRINKAGE CRACKING ARE NECESSARY. PRECAUTIONS TAKEN BY THE CONTRACTOR VARY DEPENDING UPON THE FACTORS ASSOCIATED WITH WATER EVAPORATION AND INCLUDE BUT ARE NOT LIMITED TO:

- LIMITING CONCRETE TEMPERATURE TO 100°F AT TIME OF PLACEMENT.
- APPLICATION OF AN EVAPORATION RETARDER.
- USE OF FOG SPRAY.
- REDUCTION OF POUR SIZE.
- PLACING CONCRETE AT NIGHT.

CONTROL AND CONSTRUCTION JOINTS

CONSTRUCTION JOINTS SHALL MEET THE REQUIREMENTS OF ACI 301 SECTIONS 2.2.2.5 AND 5.3.2.6. SPECIAL BONDING METHODS PER SECTION 5.3.2.6 SHALL BE SATISFIED BY ITEM 3 BELOW UNLESS OTHERWISE DETAILED ON THE STRUCTURAL DRAWINGS. WHERE CONSTRUCTION JOINTS ARE NOT SHOWN ON PLAN OR ADDITIONAL CONSTRUCTION JOINTS ARE REQUIRED SUBMIT PROPOSED JOINTING FOR STRUCTURAL ENGINEERS APPROVAL. PROVIDE CONSTRUCTION JOINTS AS INDICATED BELOW UNLESS NOTED OTHERWISE ON THE PLANS:

- SLABS ON GRADE. PROVIDE CONSTRUCTION AND/OR CONTROL JOINTS AT 16 FEET O.C. MAXIMUM FOR UNEXPOSED SLABS ON GRADE AND 12 FEET O.C. FOR EXPOSED SLABS ON GRADE. COORDINATE JOINTS WITH ARCHITECTURAL DRAWINGS.
- BONDING AGENT. WHERE BONDING AGENT IS SPECIFICALLY CALLED OUT ON THE STRUCTURAL DRAWINGS USE "WELD CRETE" BY LARSON PRODUCTS CORPORATION OR PRE-APPROVED EQUAL. FOLLOW ALL MANUFACTURERS RECOMMENDATIONS.
- ATTACHMENT OF NEW CONCRETE TO EXISTING: WHERE SHOWN, ROUGHEN CONCRETE TO A MINIMUM AMPLITUDE OF 1/4" USING IMPACT HAMMER. REMOVE ALL LOOSE OR DAMAGED CONCRETE, THOROUGHLY FLUSH ALL SURFACES WITH POTABLE WATER, AIR BLAST WITH OIL FREE COMPRESSED AIR TO REMOVE ALL WATER.

CONCRETE CURING AND SEALING

CURING PROCEDURES SHALL COMMENCE IMMEDIATELY AFTER FINISHING CONCRETE TO MAINTAIN CONCRETE IN A MOIST CONDITION. VERIFY CURING AND/OR SEALING PRODUCTS ARE COMPATIBLE WITH FLOOR COVERINGS SHOWN ON THE ARCHITECTURAL DRAWINGS. FOLLOW ALL MANUFACTURER'S RECOMMENDATIONS. SLABS ARE DEFINED AS SLABS ON GRADE, CONCRETE ON METAL DECK, ELEVATED POST-TENSIONED OR MILD REINFORCED DECKS, AND TOPPING SLABS

ITEM	CONCRETE CURING NOTES
SLABS EXPOSED TO EARTH OR WEATHER OR VEHICLE OR FORKLIFT TRAFFIC INCLUDING LOADING DOCKS	1, (3 OR 4 OR 5), 6
ALL OTHER SLABS	1, (3 OR 4 OR 5)
FORMED SURFACES EXCLUDING FOUNDATIONS	2
SHOTCRETE WALLS	4
ALL OTHER CONCRETE	NONE

CONCRETE CURING NOTES:

- WHEN THE ESTIMATED EVAPORATION RATE IS GREATER THAN 0.2 PSF/HOUR, PROVIDE A SPRAY APPLIED EVAPORATION RETARDER IMMEDIATELY AFTER CONCRETE PLACEMENT. THE EVAPORATION RATE MAY BE CALCULATED PER ACI 305 FIGURE 2.1.5.
- APPLY A LIQUID MEMBRANE FORMING CURING COMPOUND, CONFORMING TO ASTM C309 TYPE 1 CLASS B SPECIFICATIONS, PER MANUFACTURERS RECOMMENDATIONS TO ALL FORMED SURFACES IMMEDIATELY AFTER FORM REMOVAL. NOT REQUIRED IF FORMWORK REMAINS IN PLACE FOR MORE THAN 7 DAYS.
- PROVIDE PRE-APPROVED CONTINUOUS WET CURE METHOD FOR A MINIMUM OF 14 DAYS.
- APPLY A LIQUID MEMBRANE FORMING CURING COMPOUND, CONFORMING TO ASTM C309 TYPE 1 CLASS B SPECIFICATIONS OR ASTM C1315 TYPE 1 CLASS A SPECIFICATIONS, PER MANUFACTURERS RECOMMENDATIONS IMMEDIATELY AFTER FINAL FINISHING. CURING COMPOUND SHALL BE COMPATIBLE WITH ARCHITECTURAL FLOOR COVERINGS AND SEALERS.
- PROVIDE 'ULTRACURE MAX' MOISTURE RETAINING COVER BY MCTECH GROUP, OR APPROVED EQUAL, FOR A MINIMUM OF 14 DAYS.
- APPLY A SILANE SEALER WITH MINIMUM SOLIDS CONTENT OF 40% PER MANUFACTURERS RECOMMENDATIONS.

GROUT

NON-SHRINK GROUT: MASTER BUILDERS "MASTERFLOW 928" OR PRE-APPROVED EQUAL. GROUT SHALL CONFORM TO CRD-C621 AND ASTM C1107 WHEN TESTED AT A FLUID CONSISTENCY PER CRD-C611-85 FOR 30 MINUTES. GROUT MAY BE PLACED FROM A 25 SECOND FLOW TO A STIFF PACKING CONSISTENCY. FILL OR PACK ENTIRE SPACE UNDER PLATES OR SHAPES. FOLLOW MANUFACTURER'S RECOMMENDATIONS FOR PREPARATION, INSTALLATION, AND CURING.

DESIGN FIRM:

WARE MALCOMB

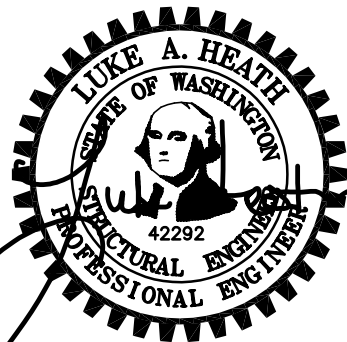
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SHEET TITLE

GENERAL
NOTES

S1.01

SHEET 9 OF 13 SHEETS

FILE: G:\2023 jobs\23679 WSU Stadium Way Crosswalks\Drawings\23679 GN.dwg PLOT DATE: November 10, 2022, 1:42 PM ORIGINAL PAPER SIZE: 24" x 36"

REINFORCING STEEL

REINFORCING STEEL SHALL CONFORM TO:

ASTM A615, GRADE 60 TYPICAL UNLESS NOTED OTHERWISE.

DETAIL FABRICATE AND PLACE PER ACI 315 AND ACI 318.

ALL REINFORCEMENT SHALL BE EPOXY COATED BARS & SHALL CONFORM TO ASTM A775. BARS SHOULD BE HANDLED CAREFULLY, AVOIDING DAMAGE TO THE COATING. IN THE EVENT THAT THE COATING INCURS MINOR CHIPS OR CRACKS, FIELD REPAIRS MAY BE DONE WITH A TWO PART EPOXY.

REINFORCING SPLICE AND DEVELOPMENT LENGTH SCHEDULE, Fy=60 KSI (UNLESS NOTED OTHERWISE)					
BAR SIZE	MINIMUM LAP SPLICE LENGTHS ("Ls")		MINIMUM DEVELOPMENT LENGTHS ("Ld")		MINIMUM EMBEDMENT LENGTH FOR STANDARD END HOOKS ("Ldh")
	TOP BARS (1)	OTHER BARS	TOP BARS (1)	OTHER BARS	
#3	2'-0"	1'-6"	1'-6"	1'-3"	0'-7"
#4	2'-8"	2'-0"	2'-0"	1'-7"	0'-9"
#5	3'-4"	2'-7"	2'-7"	2'-0"	1'-0"
#6	4'-0"	3'-1"	3'-1"	2'-4"	1'-2"

SPLICE TABLE NOTE:

1. "TOP BARS" ARE HORIZONTAL BARS WITH MORE THAN 12" DEPTH OF CONCRETE CAST BELOW THEM.

REINFORCING STEEL COVER

PROVIDE CONCRETE COVER OVER REINFORCEMENT AS FOLLOWS, UNLESS NOTED OTHERWISE.

CONCRETE CAST AGAINST EARTH ----- 3"
EXPOSED TO WEATHER OR EARTH ----- 2"

POST-INSTALLED ANCHORS

POST-INSTALLED ANCHORS: SHALL ONLY BE USED WHERE SPECIFIED ON THE CONSTRUCTION DOCUMENTS. THE CONTRACTOR SHALL OBTAIN APPROVAL FROM THE STRUCTURAL ENGINEER PRIOR TO INSTALLING POST-INSTALLED ANCHORS IN PLACE OF MISSING OR MISPLACED CAST-IN-PLACE ANCHORS. CARE SHALL BE TAKEN IN PLACING POST-INSTALLED ANCHORS TO AVOID CONFLICTS WITH REBAR. INSTALL IN ACCORDANCE WITH THE MANUFACTURER'S PUBLISHED INSTALLATION INSTRUCTIONS. INSTALLER SHALL BE QUALIFIED AND TRAINED BY THE MANUFACTURER. HOLE SHALL BE HAMMER DRILLED ONLY (ROTARY DRILLED ONLY AT UNREINFORCED MASONRY – NO HAMMER TOOLS).

SUBSTITUTION REQUESTS, FOR PRODUCTS OTHER THAN THOSE SPECIFIED BELOW, SHALL BE SUBMITTED FOR APPROVAL A MINIMUM OF 2 WEEKS PRIOR TO BID, ALONG WITH CALCULATIONS THAT ARE PREPARED AND SEALED BY A REGISTERED PROFESSIONAL ENGINEER (LICENSED IN THE STATE IN WHICH THE PROJECT OCCURS) DEMONSTRATING THAT THE SUBSTITUTED PRODUCT IS CAPABLE OF ACHIEVING EQUIVALENT PERFORMANCE VALUES (MINIMUM) OF THE SPECIFIED PRODUCT USING THE APPROPRIATE DESIGN PROCEDURE AND/OR STANDARD(S) AS REQUIRED BY THE BUILDING CODE.

CONCRETE ANCHORS:

ADHESIVE ANCHORS: HILTI HIT-HY 200 (ICC-ESR-3187)

* CONCRETE SHALL BE A MINIMUM OF 21 DAYS OLD AT TIME OF INSTALLATION.

* CONCRETE SHALL BE IN THE TEMPERATURE RANGE AS REQUIRED BY THE CONCRETE MANUFACTURER.

* HOLE SHALL BY HAMMER-DRILLED ONLY.

* DO NOT INSTALL IN WATER-FILLED HOLES.

* INSTALLER OF HORIZONTAL OR UPWARDLY INCLINED (ANY POSITION EXCEPT DIRECTLY DOWNWARD) ANCHORS SHALL ALSO BE CERTIFIED BY THE ACI/CRSI ADHESIVE ANCHOR INSTALLER CERTIFICATION PROGRAM.

EXPANSION ANCHORS: KWIKBOLT TZ (ICC ESR-1917) BY HILTI, INC. OR PRE-APPROVED EQUAL.

SCREW ANCHORS: KWIK HUS-EZ (ICC ESR-3027) BY HILTI, INC. OR PRE-APPROVED EQUAL.

STRUCTURAL STEEL

DETAILING, FABRICATION AND ERECTION

ALL WORKMANSHIP SHALL CONFORM TO THE AISC MANUAL OF STEEL CONSTRUCTION, 15TH EDITION, THE AISC SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS, JULY 7, 2016, THE AISC CODE OF STANDARD PRACTICE, JUNE 15, 2016 AND THE AISC SEISMIC PROVISIONS FOR STRUCTURAL STEEL BUILDINGS JULY 12, 2016.

STEEL MEMBERS ARE EQUALLY SPACED BETWEEN COLUMNS AND/OR DIMENSION POINTS UNLESS NOTED OTHERWISE.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL ERECTION AIDS AND JOINT PREPARATIONS THAT INCLUDE BUT ARE NOT LIMITED TO, ERECTION ANGLES, LIFT HOLES, AND OTHER AIDS, WELDING PROCEDURES, REQUIRED ROOT OPENINGS, ROOT FACE DIMENSIONS, GROOVE ANGLES, BACKING BARS. WELD EXTENSION TABS, COPES, SURFACE ROUGHNESS VALUES AND TAPERS OF UNEQUAL PARTS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE COMPLIANCE WITH ALL CURRENT OSHA REQUIREMENTS.

HOLES, COPES OR OTHER CUTS OR MODIFICATIONS OF THE STRUCTURAL STEEL MEMBERS SHALL NOT BE MADE IN THE FIELD WITHOUT WRITTEN APPROVAL FROM THE STRUCTURAL ENGINEER.

MATERIAL PROPERTIES

WIDE FLANGE SECTIONS: ASTM A992 (Fy = 50 KSI)

OTHER SHAPES AND PLATES: ASTM A36 (Fy = 36 KSI) TYP. U.N.O

HOLLOW STRUCTURAL SECTIONS: RECTANGULAR & SQUARE – ASTM A500 GRADE C (Fy = 50 KSI)

MACHINE BOLTS (M.B.): ASTM A307, GRADE A

HIGH-STRENGTH BOLTS: A325-ASTM F1852

WELDING

STRUCTURAL STEEL: WELD IN ACCORDANCE WITH "STRUCTURAL WELDING CODE" AWS D1.1.

CERTIFICATION: ALL WELDING SHALL BE PERFORMED BY WABO/AWS CERTIFIED WELDERS. WELDERS SHALL BE PREQUALIFIED FOR EACH POSITION AND WELD TYPE WHICH THE WELDER WILL BE PERFORMING.

WELD TABS (ALSO KNOWN AS WELD "EXTENSION" TABS OR "RUN OFF" TABS) SHALL BE USED. AFTER THE WELD HAS BEEN COMPLETED THE WELD TABS SHALL BE REMOVED AND THE WELD END GROUND TO A SMOOTH CONTOUR. WELD "DAMS" OR "END DAMS" SHALL NOT BE USED.

THE PROCESS CONSUMABLES FOR ALL WELD FILLER METAL INCLUDING TACK WELDS, ROOT PASS AND SUBSEQUENT PASSES DEPOSITED IN A JOINT SHALL BE COMPATIBLE.

ALL WELD FILLER METAL AND WELD PROCESS SHALL PROVIDE THE TENSILE STRENGTH CHARPY V-NOTCH RATINGS AS FOLLOWS:

GRAVITY FRAME

WELD TYPE	FILLER METAL TENSILE STRENGTH	CHARPY V-NOTCH (CVN) RATING
FILLET	70 KSI	-----
PARTIAL PENETRATION	70 KSI	-----
COMPLETE PENETRATION	70 KSI	20 FT-LBS @ -20 DEG F

WELDED CONNECTIONS INSPECTION:

1. ALL WELDING SHALL BE CHECKED BY VISUAL MEANS AND BY OTHER METHODS DEEMED NECESSARY BY THE WELDING INSPECTOR.

THE STANDARDS OF ACCEPTANCE FOR WELDS TESTED BY ULTRASONIC METHODS SHALL CONFORM TO AWS D1.1.

ALL WELDS FOUND TO BE DEFECTIVE SHALL BE REPAIRED AND REINSPECTED BY THE SAME METHODS ORIGINALLY USED, AND THIS REPAIR AND REINSPECTION SHALL BE PAID FOR BY THE CONTRACTOR.

GENERAL REQUIREMENTS

BOLTED CONNECTIONS INSPECTION: CONNECTIONS MADE WITH BEARING TYPE BOLTS SHALL BE INSPECTED PER SECTION 9.1 AND CONNECTIONS MADE WITH SLIP-CRITICAL TYPE BOLTS (A325SC OR A490SC) SHALL BE INSPECTED PER SECTION 9.3 OF RCSC SPECIFICATION.

ADHESIVE ANCHOR RODS: ASTM F1554, GRADE 36 UNLESS NOTED OTHERWISE.

HEADED STUDS: SHALL BE "H4L HEADED CONCRETE ANCHORS" FOR STUDS 5/8" DIAMETER AND SMALLER AND "S3L SHEAR CONNECTORS" FOR STUDS 3/4" DIAMETER AND LARGER AS MANUFACTURED BY NELSON STUD WELDING, INC. OR PRE-APPROVED EQUAL AND SHALL CONFORM TO AWS D1.1. ALL HEADED STUDS SHALL BE INSTALLED PER MANUFACTURER'S RECOMMENDATIONS USING A NELSON WELD GUN, UNLESS NOTED OTHERWISE ON DETAILS. ALL WELDS SHALL BE MADE AND INSPECTED IN ACCORDANCE WITH AWS D1.1.

FINISH: STRUCTURAL STEEL SHALL BE UNPAINTED, UNLESS NOTED OTHERWISE, AND SHALL BE CLEAN OF LOOSE RUST, LOOSE MILL SCALE, OIL, GREASE AND OTHER FOREIGN SUBSTANCES AND SHALL MEET THE REQUIREMENTS OF SSPC-SP1. WHERE STRUCTURAL STEEL IS NOTED TO BE PAINTED, ALL AREAS COMPRISING THE FAYING SURFACES OF BOLTED CONNECTIONS MADE WITH SLIP-CRITICAL TYPE BOLTS (A325SC OR A490SC) SHALL COMPLY WITH THE REQUIREMENTS OF THE RCSC SPECIFICATION. WHERE STRUCTURAL STEEL IS NOTED TO BE GALVANIZED, IT SHALL BE HOT-DIP GALVANIZED IN ACCORDANCE WITH ASTM A123, A384, AND A385. ALL SURFACES WITHIN TWO INCHES OF ANY FIELD WELD LOCATION SHALL BE FREE OF MATERIALS THAT WOULD PREVENT PROPER WELDING OR PRODUCE OBJECTIONABLE FUMES. FIELD TOUCH-UP OF PRIMED, PAINTED, AND GALVANIZED SURFACES SHALL BE PERFORMED TO REPAIR COATING ABRASIONS, AS WELL AS TO PROTECT ALL AREAS AT CONNECTIONS.

PREFABRICATED METAL STAIRS AND LANDINGS: SHALL BE DESIGNED PER AISC AND IBC REQUIREMENTS. STRINGERS AND LANDINGS SHALL BE DESIGNED FOR A MINIMUM OF 100 PSF LIVE LOAD. INDIVIDUAL TREADS SHALL BE DESIGNED FOR 300 POUND CONCENTRATED LOAD. THE STAIR DESIGN CALCULATIONS AND SHOP DRAWINGS SHALL BE SUBMITTED TO THE STRUCTURAL ENGINEER SHOWING THE COMPLETE ASSEMBLY AND ATTACHMENTS TO THE SURROUNDING STRUCTURE. THE ATTACHMENTS SHALL BE DETAILED SUCH THAT NO TORQUE IS APPLIED TO THE SURROUNDING STRUCTURAL MEMBERS. THE CALCULATIONS AND SHOP DRAWINGS SHALL BEAR THE SEAL AND SIGNATURE OF A REGISTERED STRUCTURAL ENGINEER LICENSED IN THE STATE OF WASHINGTON.

MISCELLANEOUS:

PRE-APPROVED SUBSTITUTIONS

SUBSTITUTIONS MAY BE ALLOWED ONLY IF THEY MEET THE REQUIREMENTS OF THESE GENERAL NOTES AND THE SPECIFICATIONS, AND IF COMPLETE WRITTEN ENGINEERING DATA FOR EACH CONDITION REQUIRED FOR THIS PROJECT IS PROVIDED TO THE STRUCTURAL ENGINEER TWO WEEKS PRIOR TO BID DATE AND APPROVED IN WRITTEN ADDENDA BY THE ARCHITECT. DATA IS TO INDICATE CODE BASIS BY YEAR, AUTHORITY FOR STRESSES AND STRESS INCREASES, IF ANY, AND AMOUNT OF EXPECTED DEFLECTION FOR FLEXURAL MEMBERS UNDER (1) TOTAL LOAD AND (2) LIVE LOAD ONLY. ALL INCREASED COSTS IN MECHANICAL, SPRINKLER, ELECTRICAL OR GENERAL INSTALLATION AND ANY ARCHITECTURAL OR STRUCTURAL REDESIGN RESULTING FROM SUBSTITUTION SHALL BE BORNE BY THE GENERAL CONTRACTOR.

SHOP DRAWINGS/SUBMITTALS

THE FOLLOWING SHOP DRAWINGS/SUBMITTALS SHALL BE PROVIDED FOR REVIEW AND APPROVAL BY THE STRUCTURAL ENGINEER PRIOR TO FABRICATION OR DELIVERY.

	STRUCTURAL ENGR.	BLDG. DEPT.
1. CONCRETE MIX DESIGNS	X	X
2. REINFORCING STEEL SHOP DRAWINGS	X	
3. STRUCTURAL STEEL	X	X
4. SHORING OF CONCRETE SLAB	X	X
5. CONTRACTOR'S STATEMENT OF RESPONSIBILITY	X	X

SHORING OF CONCRETE SLAB

THE GENERAL CONTRACTOR SHALL PROVIDE AN ENGINEERED SHORING PLAN OF THE TUNNEL LID STAMPED BY A PROFESSIONAL ENGINEER IN THE STATE OF WASHINGTON.

SPECIAL INSPECTION: SPECIAL INSPECTION SHALL BE PROVIDED BY AN INDEPENDENT TESTING LABORATORY PER THE REQUIREMENTS OF IBC CHAPTER 17 AND THE LOCAL BUILDING OFFICIAL OR APPLICABLE JURISDICTION AND THE CONTRACT DOCUMENTS. THE SPECIAL INSPECTOR SHALL SUBMIT INSPECTION REPORTS AND A FINAL SIGNED REPORT TO THE BUILDING OFFICIAL FOR THE ITEMS LISTED IN THE QUALITY ASSURANCE/SPECIAL INSPECTION SECTION:

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3	02/07/24	BID DOCUMENTS
2	11/28/23	90% BID DOCUMENTS
1	10/13/23	SCHEMATIC DESIGN
MARK	DATE	DESCRIPTION

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S1.02

SHEET 10 OF 13 SHEETS

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U
D
C
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A

STATEMENT OF SPECIAL INSPECTIONS:

SPECIAL INSPECTION: SPECIAL INSPECTION SHALL BE PROVIDED PER THE REQUIREMENTS OF IBC SECTION 1704 AND 1705 AND AS NOTED HEREIN.

STRUCTURAL SYSTEM	VERIFICATION AND INSPECTION	CONTINUOUS	PERIODIC	COMMENTS	REFERENCES
STRUCTURAL STEEL	MATERIAL VERIFICATION OF HIGH-STRENGTH BOLTS, NUTS AND WASHERS		X		AISC 360 CHAPTER N5
	HIGH-STRENGTH BOLTING A. SNUG-TIGHT JOINTS		X		AISC 360 CHAPTER N5
	MATERIAL VERIFICATION OF STRUCTURAL STEEL A. FOR STRUCTURAL STEEL, IDENTIFICATION MARKINGS TO CONFORM TO AISC 360 B. MANUFACTURER'S CERTIFIED MILL TEST REPORTS		X X	MANUFACTURER TO PROVIDE CERTIFIED MILL TEST REPORTS	AISC 360 CHAPTER N5 AISC 341 CHAPTER J6
	MATERIAL VERIFICATION OF WELD FILLER MATERIALS A. IDENTIFICATION MARKINGS TO CONFORM TO AWS SPECIFICATIONS LISTED IN GENERAL NOTES B. MANUFACTURER'S CERTIFICATE OF COMPLIANCE		X X	MANUFACTURER TO PROVIDE CERTIFICATE OF COMPLIANCE	AISC 360 CHAPTER N5
	INSPECTION OF WELDING A. COMPLETE AND PARTIAL JOINT PENETRATION GROOVE WELDS B. MULTI-PASS FILLET WELDS C. SINGLE-PASS FILLET WELDS > 5/16" D. PLUG AND SLOT WELDS E. SINGLE-PASS FILLET WELDS ≤ 5/16" F. FIELD-INSTALLED WELDED STUDS G. WELDING OF STAIRS AND RAILING SYSTEMS	X X X	X X X	SPECIAL INSPECTIONS IN THIS SECTION ARE WAIVED WHERE FABRICATION IS PERFORMED ON THE PREMISES OF A FABRICATOR REGISTERED AND APPROVED IN ACCORDANCE WITH IBC SECTION 1704.2.5	AISC 360 CHAPTER N5 AISC 341 CHAPTER J6 AWS D1.1
	CONCRETE INSPECT REINFORCEMENT, AND VERIFY PLACEMENT		X		ACI 318: CH 20, 25.2, 25.3, 26.6.1-26.6.3 IBC 1908.4
	ANCHORS CAST IN CONCRETE-PRIOR TO AND DURING PLACEMENT OF CONCRETE		X		ACI 318: 17.8.2 AISC 360 SECTION N7
	ANCHORS POST-INSTALLED IN HARDENED CONCRETE		X		ACI 318: 3.8.6, 8.1.3, 21.2.8 IBC 1909.1
	VERIFY USE OF REQUIRED DESIGN MIX		X		ACI 318: CH 19
	PRIOR TO CONCRETE PLACEMENT, FABRICATE SPECIMENS FOR STRENGTH TESTS, PERFORM SLUMP AND AIR CONTENT TESTS, AND DETERMINE THE TEMPERATURE OF THE CONCRETE	X			ASTM C172, C31 ACI 318: 26.4, 26.12 IBC 1908.10
	MAINTENANCE OF SPECIFIED CURING TEMPERATURE AND TECHNIQUES		X		ACI 318: 26.5.3-26.5.5 IBC 1908.9
	TESTING OF MATERIALS		X		IBC 1705.3.2

TESTING AND SPECIAL INSPECTION REPORTS SHALL BE PREPARED FOR EACH INSPECTION ITEM ON A DAILY BASIS WHENEVER WORK IS PERFORMED ON THAT ITEM. REPORTS SHALL BE DISTRIBUTED TO OWNER, CONTRACTOR, BUILDING OFFICIAL, ARCHITECT AND STRUCTURAL ENGINEER OF RECORD.

STRUCTURAL OBSERVATIONS SHALL BE PERFORMED BY THE STRUCTURAL ENGINEER OF RECORD OR DESIGNATED REPRESENTATIVE IN ACCORDANCE WITH IBC 1704.6. STRUCTURAL OBSERVATION SHALL BE PERFORMED AS FOLLOWS:

- PERIODIC VISUAL OBSERVATION OF STRUCTURAL SYSTEMS FOR GENERAL CONFORMANCE TO CONSTRUCTION DOCUMENTS AT SIGNIFICANT CONSTRUCTION STAGES.
- REVIEW OF TESTING AND INSPECTION REPORTS.
- REPORTS SHALL BE PREPARED FOR EACH SITE VISIT AND SHALL BE DISTRIBUTED TO ARCHITECT.

GENERAL CONTRACTOR SHALL SUBMIT A WRITTEN CONTRACTOR'S STATEMENT OF RESPONSIBILITY TO THE BUILDING OFFICIAL AND OWNER PRIOR TO COMMENCEMENT OF WORK. THE CONTRACTOR'S STATEMENT OF RESPONSIBILITY SHALL INCLUDE ACKNOWLEDGMENT OF AWARENESS OF THE SPECIAL INSPECTION REQUIREMENTS CONTAINED IN THE STATEMENT OF SPECIAL INSPECTION.

ABBREVIATION LIST

Ⓐ	AT	EL.	ELEVATION	MISC.	MISCELLANEOUS
A.B.	ANCHOR BOLT	ELEV.	ELEVATOR	MTL	METAL
ADD'L	ADDITIONAL	ENGR	ENGINEER	N.F.	NEAR FACE
A.F.F.	ABOVE FINISH FLOOR	EQ.	EQUAL	N.S.	NEAR SIDE
ALT.	ALTERNATE	E.W.	EACH WAY	NTS	NOT TO SCALE
ARCH.	ARCHITECTURAL	EXP.	EXPANSION	O.C.	ON CENTER
BLD'G	BUILDING	EXT.	EXTERIOR	OPN'G	OPENING
BLK'G	BLOCKING	FDN	FOUNDATION	OPP.	OPPOSITE
BM	BEAM	F.F.	FAR FACE	P.A.F.	POWDER ACTUATED FASTENER
B.O.F.	BOTTOM OF FOOTING	FLR	FLOOR	PERP.	PERPENDICULAR
B.O.T.	BOTTOM	F.O.M.	FACE OF MASONRY	PL	PLATE
BRG	BEARING	F.O.S.	FACE OF STUD	P.P.	PARTIAL PENETRATION
BTWN	BETWEEN	FRM'G	FRAMING	P.P.T.	PRESERVATIVE PRESSURE TREATED
B.U.	BUILT UP	F.R.T.	FIRE RETARDANT TREATED	P.S.F.	POUNDS PER SQUARE FOOT
(C=)	CAMBER	F.S.	FAR SIDE	PSL	PARALLAM
CANT.	CANTILEVER	FTG	FOOTING	P.T.	POST TENSION
CFS	COLD-FORMED STEEL	GA.	GAGE/GAUGE	PWL	PLYWOOD
C.J.	CONTROL/CONSTRUCTION JOINT	GALV.	GALVANIZED	REINF.	REINFORCEMENT
Ⓢ	CENTERLINE	GL.	GLULAM	REQ'D	REQUIRED
CLR.	CLEARANCE	GR.	GRADE	SCHED.	SCHEDULE
CMU	CONCRETE MASONRY UNIT	GWB	GYPSON WALL BOARD	SCL	STRUCTURAL COMPOSITE LUMBER
COL.	COLUMN	HDR	HEADER	SHT'G	SHEATHING
CONC.	CONCRETE	HGR	HANGER	SIM.	SIMILAR
CONN.	CONNECTION	HORIZ.	HORIZONTAL	S.O.G.	SLAB ON GRADE
CONST.	CONSTRUCTION	HSS	HOLLOW STRUCTURAL SECTION	SQ.	SQUARE
CONT.	CONTINUOUS	HT	HEIGHT	STD	STANDARD
CONTR.	CONTRACTOR	INT.	INTERIOR	STIFF.	STIFFENER
COORD.	COORDINATE	JST	JOIST	STL	STEEL
C.P.	COMPLETE PENETRATION	JT	JOINT	STRUCT.	STRUCTURAL
CTR'D	CENTERED	L	ANGLE	T&B	TOP & BOTTOM
C.Y.	CUBIC YARD	L.L.	LIVE LOAD	T&G	TONGUE AND GROOVE
DBL.	DOUBLE	LLH	LONG LEG HORIZONTAL	THR'D	THREADED
D.F.	DOUGLAS FIR	LLV	LONG LEG VERTICAL	T.O.F.	TOP OF FOOTING
DIA. OR ⌀	DIAMETER	LOC.	LOCATION	T.O.S.	TOP OF STEEL
DIAG.	DIAGONAL	LSL	LAMINATED STRAND LUMBER	TRT'D	TREATED
DIM.	DIMENSION	LVL	LAMINATED VENEER LUMBER	TYP.	TYPICAL
D.L.	DEAD LOAD	MAX.	MAXIMUM	U.N.O.	UNLESS NOTED OTHERWISE
DWG	DRAWING	M.B.	MACHINE BOLT	U.T.	ULTRASONIC TESTED
DWL	DOWEL	MECH.	MECHANICAL	VERT.	VERTICAL
(E)	EXISTING	MEZZ.	MEZZANINE	W	WITH
EA.	EACH	MFR	MANUFACTURER	W.P.	WORK POINT
E.F.	EACH FACE	MIN.	MINIMUM	WT	WEIGHT
				WWR.	WELDED WIRE REINFORCING

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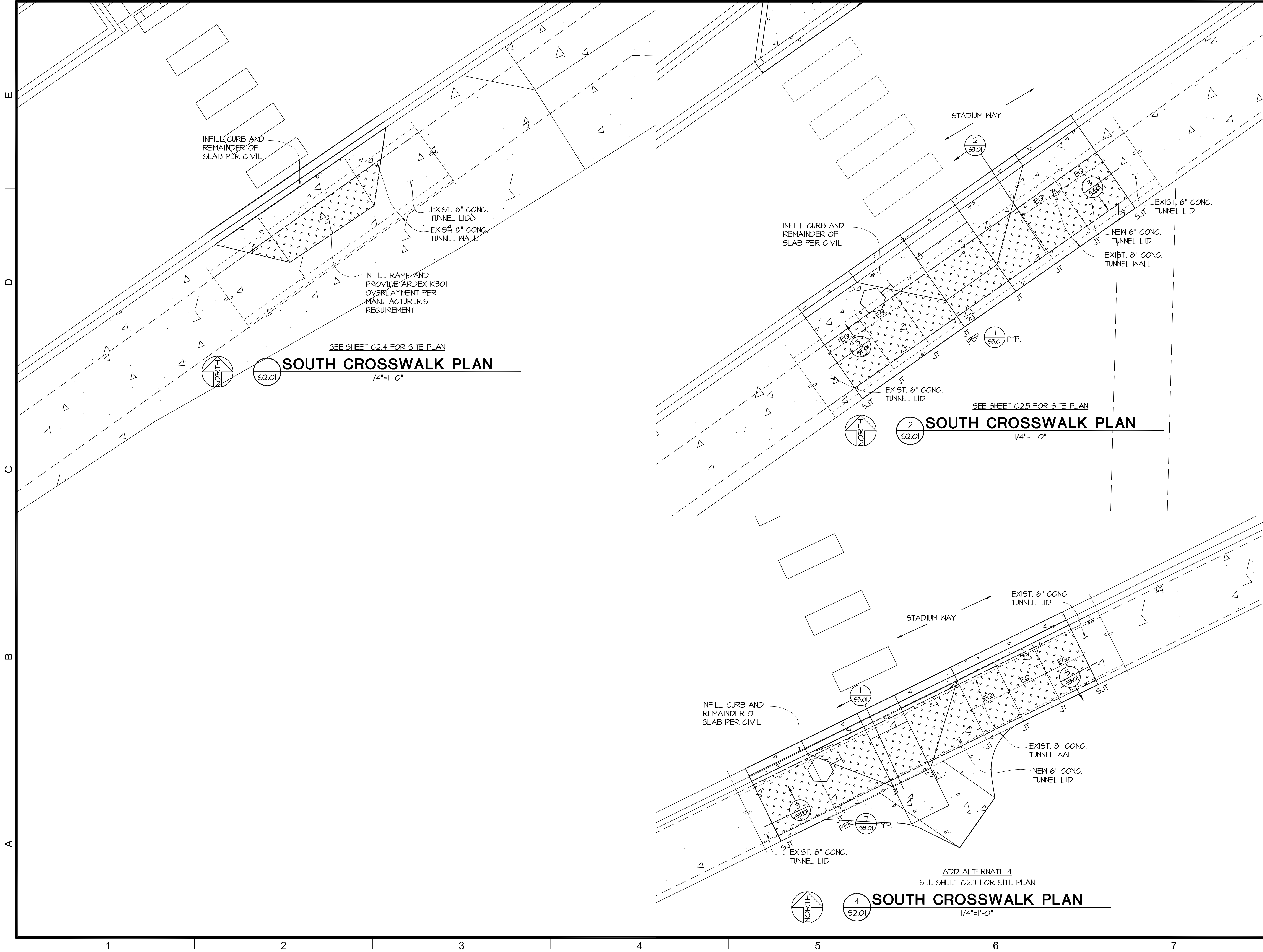
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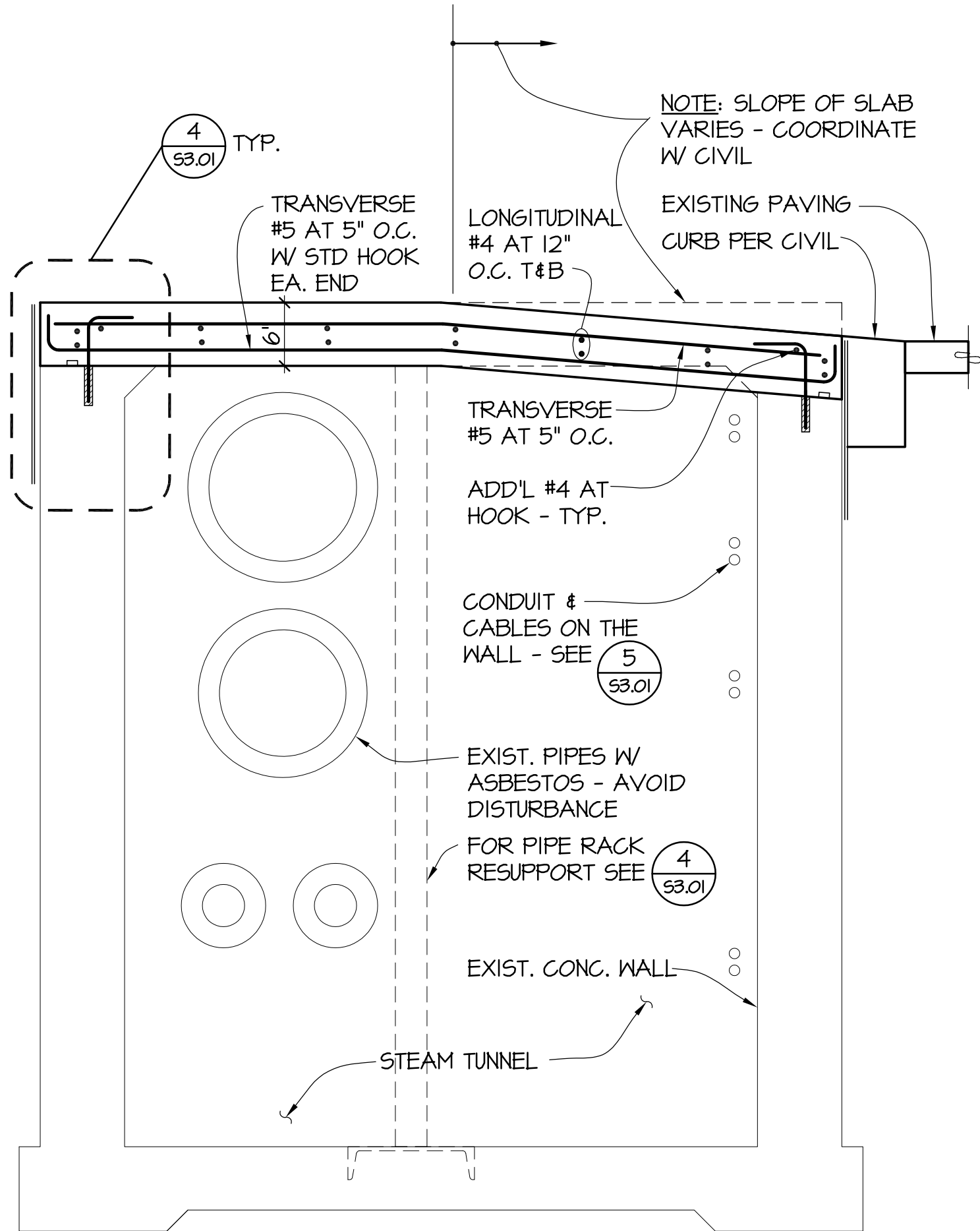
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PLANS

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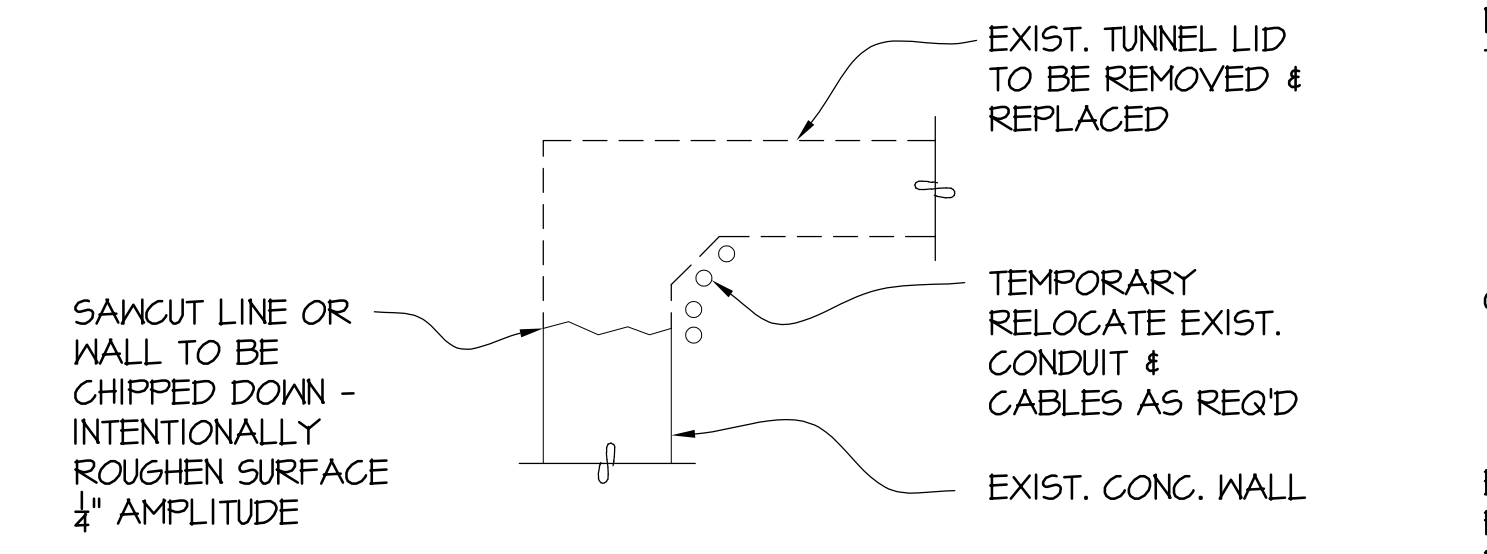
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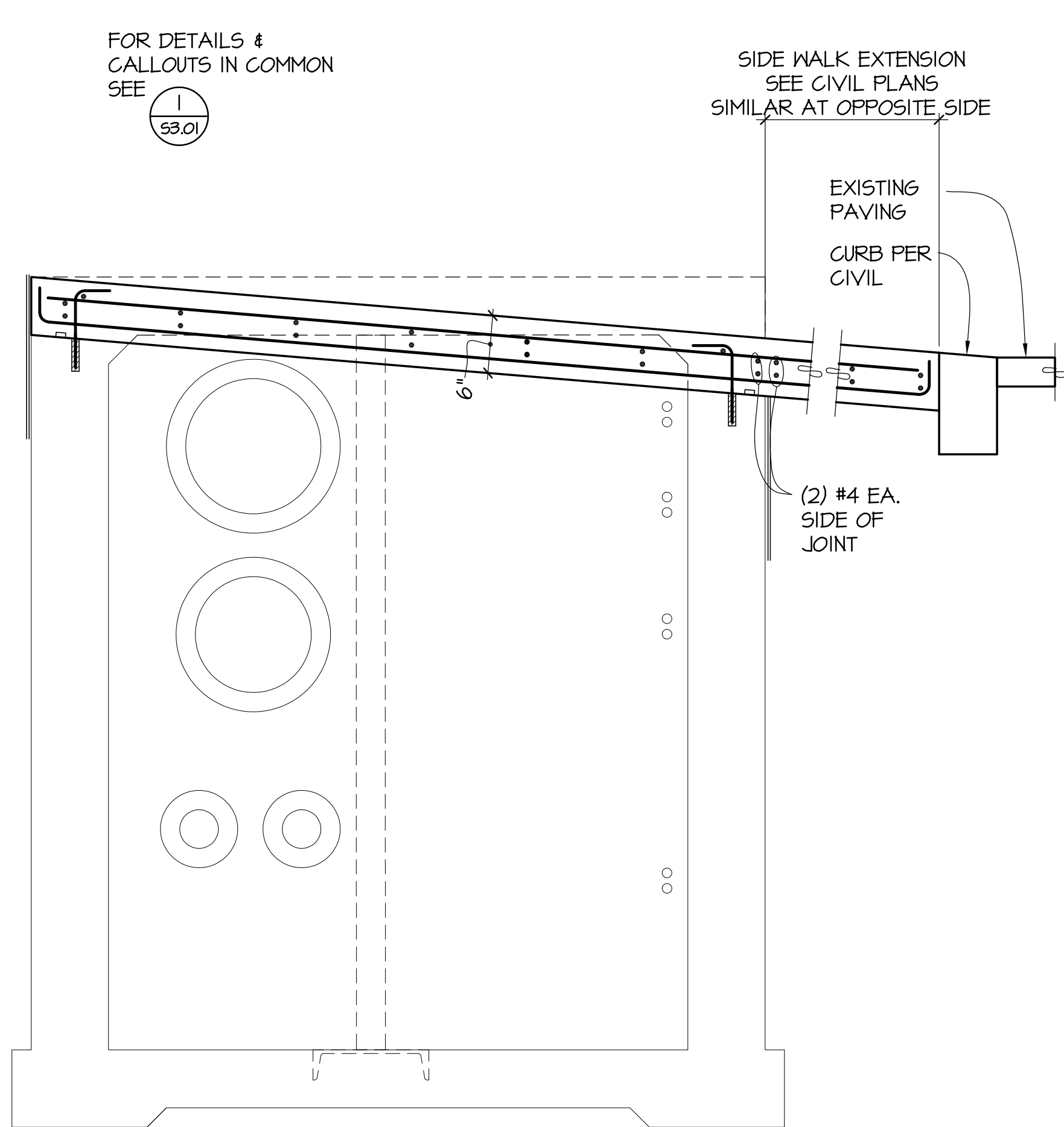


NOTES:
1. PROTECT EXISTING PIPES, PIPE SUPPORTS, PIPE INSULATION AND ELECTRICAL SECTIONS DURING CONSTRUCTION.
2. SEE DETAIL 5/53.01 FOR CONDITION AT EXISTING CONDUIT AT LID ELEVATION WHERE OCCURS
3. SHORING OF THE EXISTING PIPE RACKS AND THE EXISTING CONCRETE WALLS IS PER THE GENERAL CONTRACTOR AND IS CONSIDERED MEANS AND METHODS.
4. SHORING OF THE CONCRETE LID SHALL BE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR AND IS CONSIDERED MEANS AND METHODS. NOTE SHOULD BE MADE OF TIGHT CLEARANCES BETWEEN PIPES AND THE CONCRETE LID AND SHORING SHALL BE DESIGNED TO MINIMIZE DISTURBANCE TO THE PIPES.
5. SEE CIVIL PLANS FOR APRON AND SLOPE REQUIREMENTS. FIELD BEND REINFORCEMENT AS REQUIRED AND MAINTAIN THICKNESS OF SLAB AS REQUIRED.

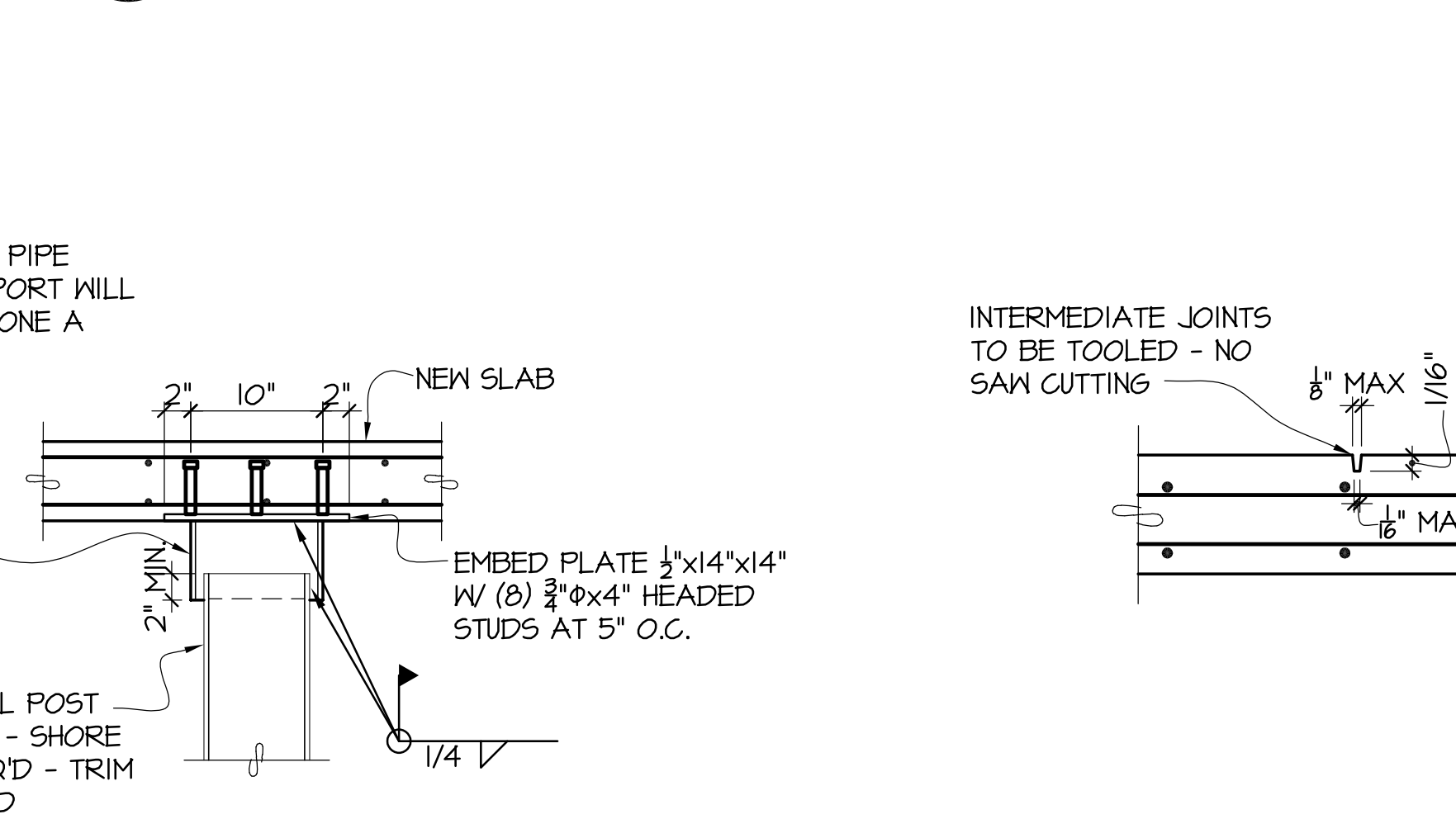
TUNNEL LID REPLACEMENT
SECTION
1
53.01
1"=1'-0"



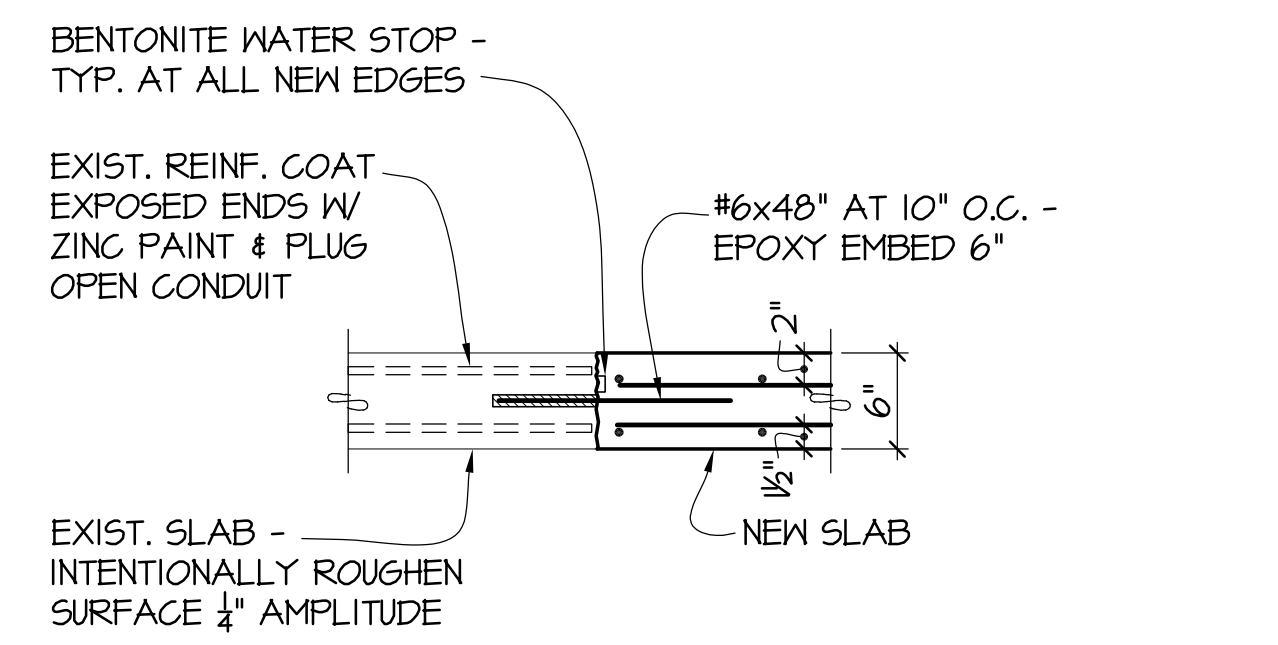
LID REPLACEMENT
SECTION
5
53.01
1"=1'-0"



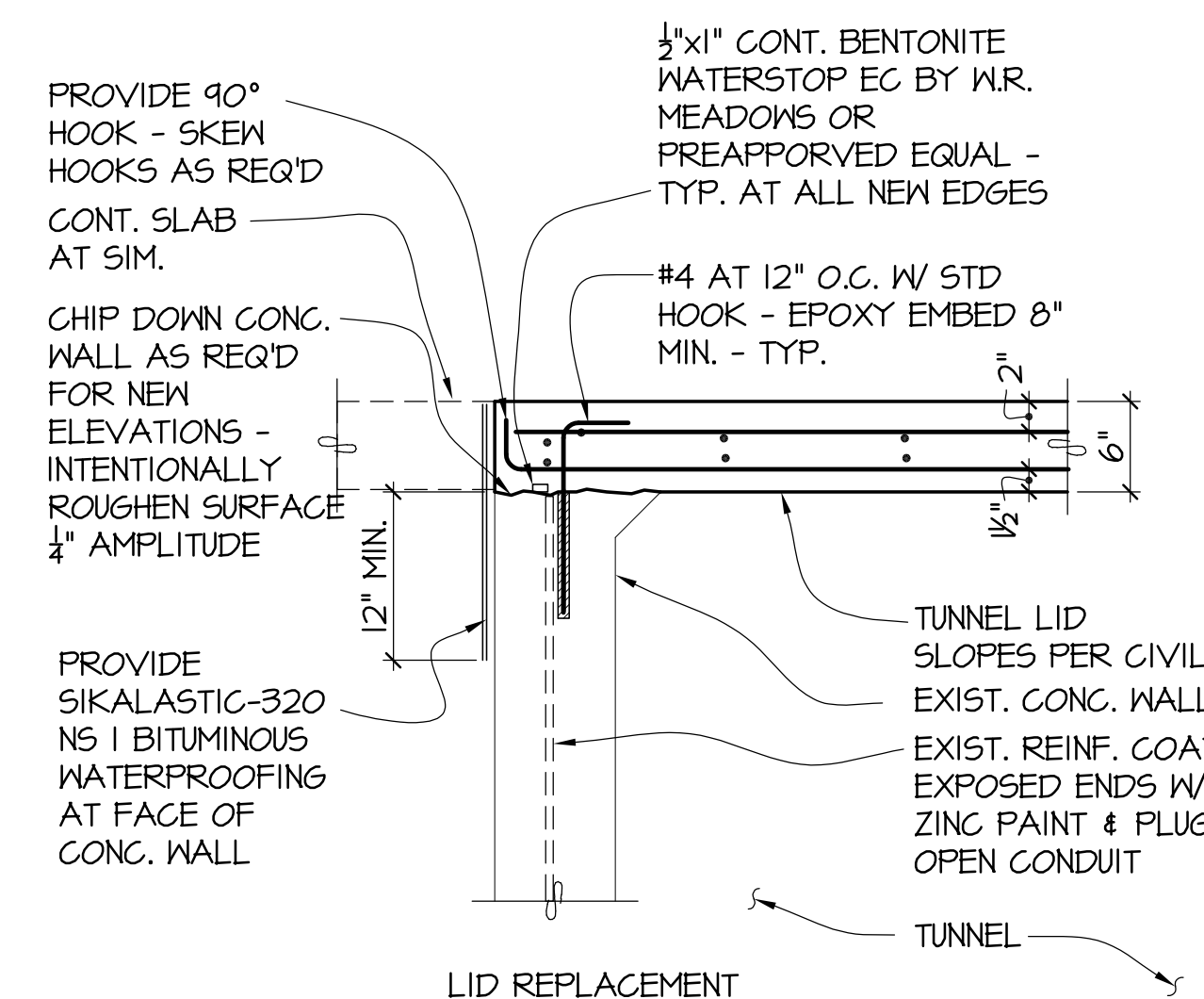
TUNNEL LID REPLACEMENT AT SIDE WALK EXTENSION
SECTION
2
53.01
1"=1'-0"



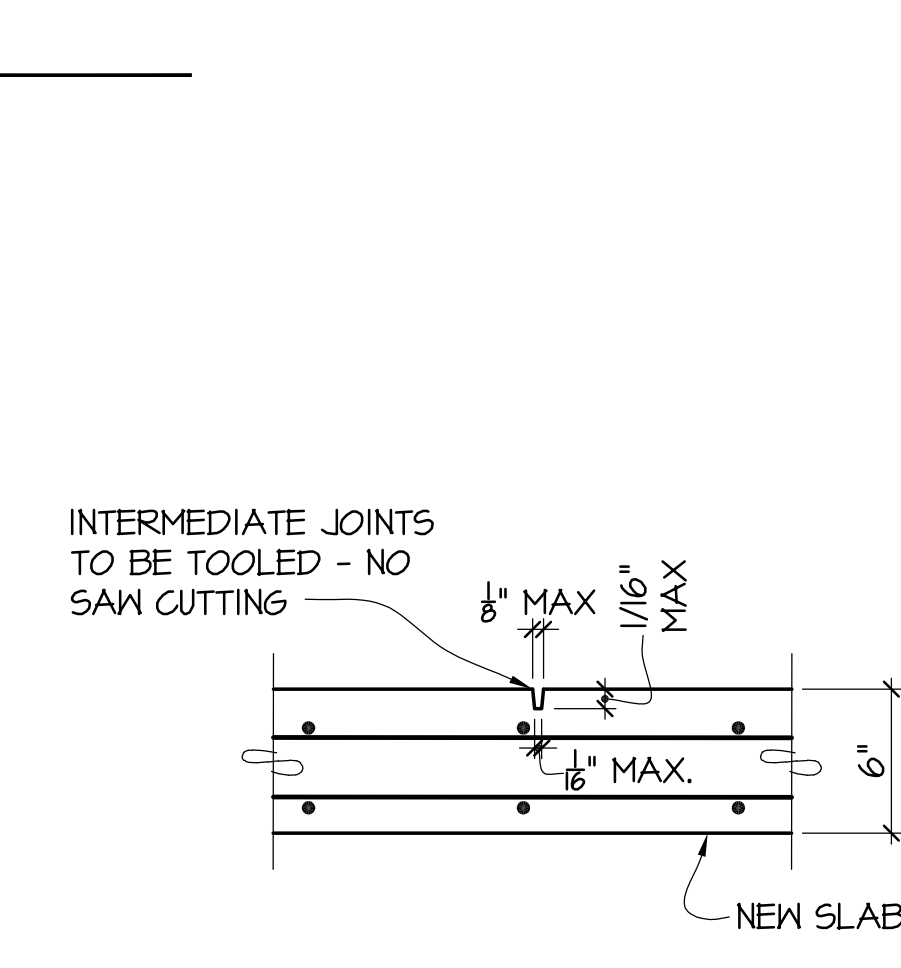
PIPE RACK RE-SUPPORT DETAIL
SECTION
6
53.01
1"=1'-0"



SLAB CONSTRUCTION JOINT "SJ" FROM NEW SLAB TO EXISTING SLAB
SECTION
3
53.01
1"=1'-0"



LID REPLACEMENT
SECTION
4
53.01
1"=1'-0"



SLAB TOOLED JOINT "JT" AT NEW SLAB
SECTION
7
53.01
NO SCALE

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