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22" C

**B**

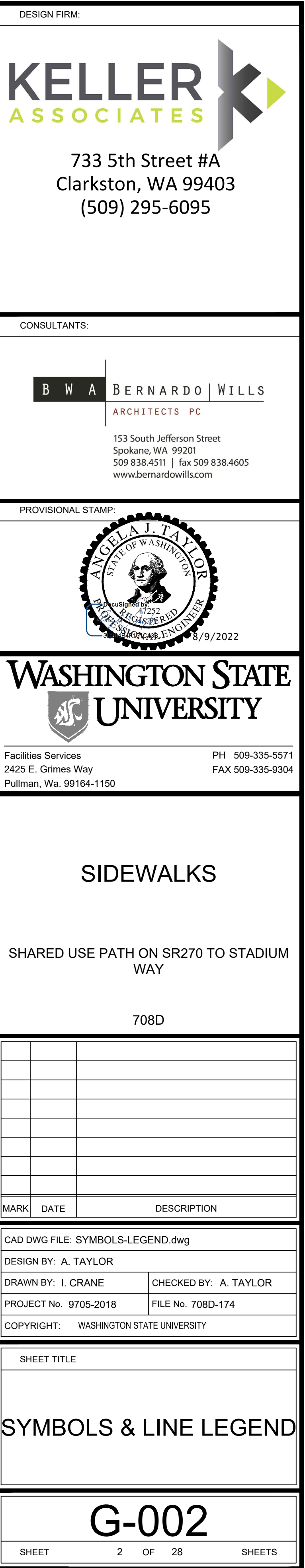


## D13\_

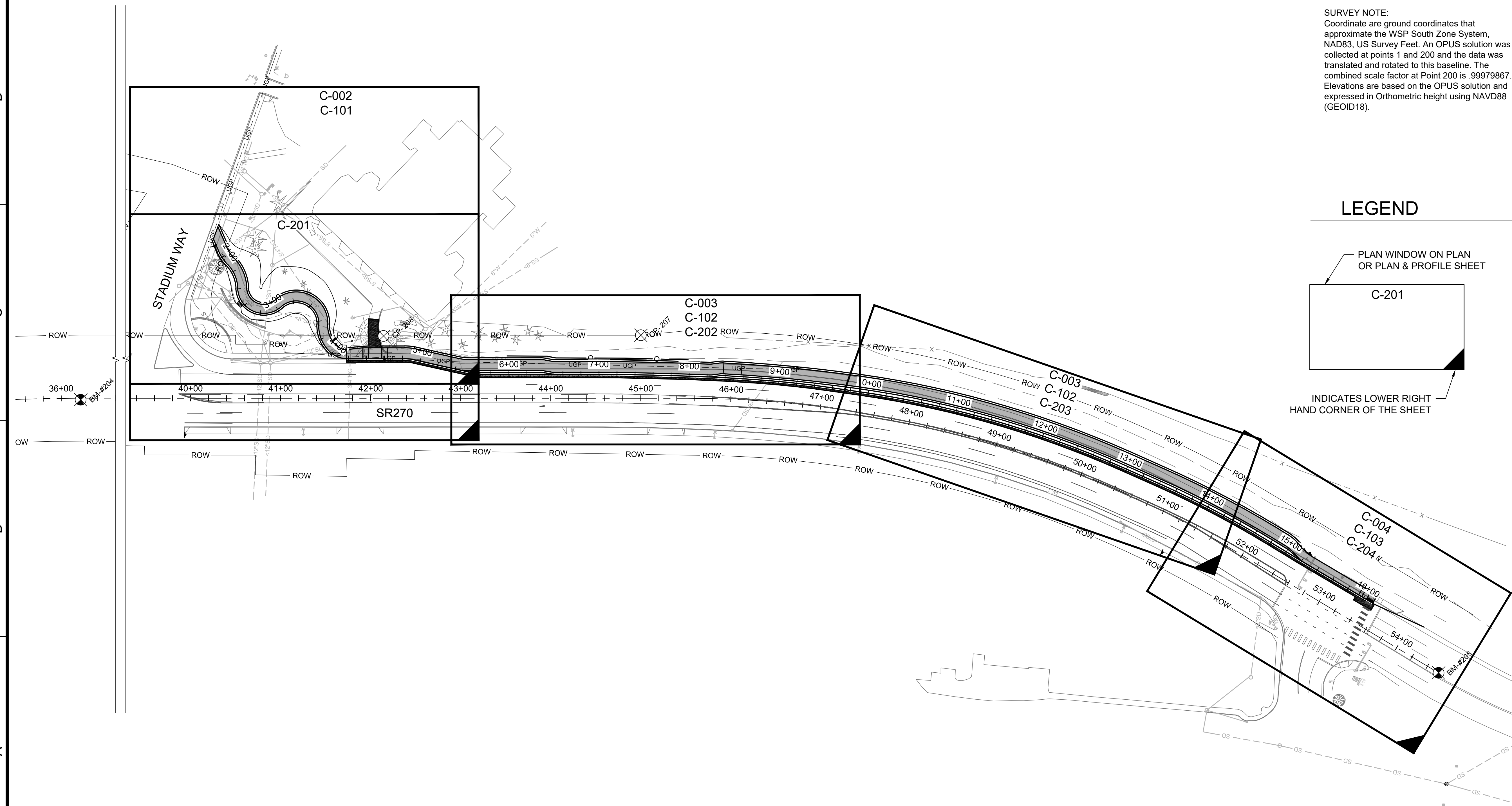


## 0.70









**SURVEY NOTE:**  
Coordinate are ground coordinates that approximate the WSP South Zone System, NAD83, US Survey Feet. An OPUS solution was collected at points 1 and 200 and the data was translated and rotated to this baseline. The combined scale factor at Point 200 is .99979867. Elevations are based on the OPUS solution and expressed in Orthometric height using NAVD88 (GEOID18).

## LEGEND

PLAN WINDOW ON PLAN  
OR PLAN & PROFILE SHEET

C-201

INDICATES LOWER RIGHT  
HAND CORNER OF THE SHEET

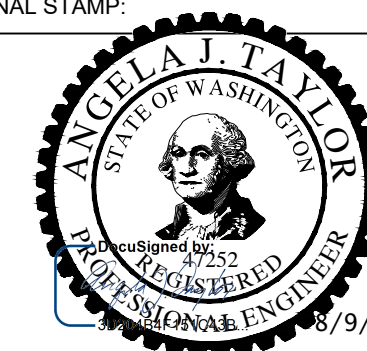
733 5th Street #A  
Clarkston, WA 99403  
(509) 295-6095

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ARCHITECTS PC

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PROVISIONAL STAMP:



WASHINGTON STATE  
UNIVERSITY

Facilities Services PH 509-335-5571  
2425 E. Grimes Way FAX 509-335-9304  
Pullman, Wa. 99164-1150

## SIDEWALKS

SHARED USE PATH ON SR270 TO STADIUM  
WAY

708D

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CAD DWG FILE: SHEET INDEX.dwg

DESIGN BY: A. TAYLOR

DRAWN BY: I. CRANE

|                       |
|-----------------------|
| CHECKED BY: A. TAYLOR |
|-----------------------|

|                       |                   |
|-----------------------|-------------------|
| PROJECT No. 9705-2018 | FILE No. 708D-174 |
|-----------------------|-------------------|

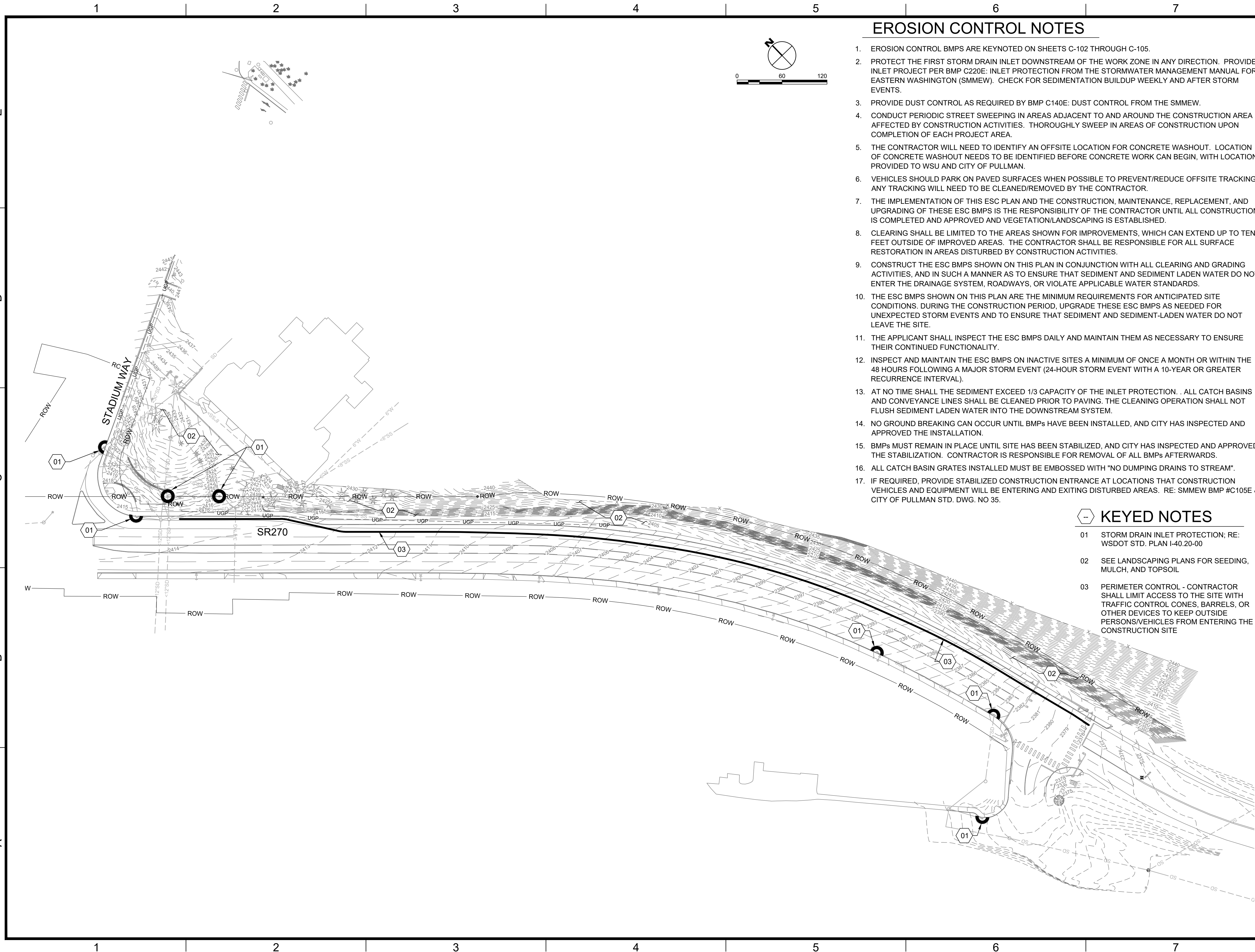
SHEET TITLE

## SURVEY CONTROL & SHEET INDEX

G-003

SHEET 3 OF 28 SHEET





3. EROSION CONTROL BMPs ARE KEYNOTED ON SHEETS C-102 THROUGH C-105.
2. PROTECT THE FIRST STORM DRAIN INLET DOWNSTREAM OF THE WORK ZONE IN ANY DIRECTION. PROVIDE INLET PROJECT PER BMP C220E: INLET PROTECTION FROM THE STORMWATER MANAGEMENT MANUAL FOR EASTERN WASHINGTON (SMMEW). CHECK FOR SEDIMENTATION BUILDUP WEEKLY AND AFTER STORM EVENTS.
3. PROVIDE DUST CONTROL AS REQUIRED BY BMP C140E: DUST CONTROL FROM THE SMMEW.
4. CONDUCT PERIODIC STREET SWEEPING IN AREAS ADJACENT TO AND AROUND THE CONSTRUCTION AREA AFFECTED BY CONSTRUCTION ACTIVITIES. THOROUGHLY SWEEP IN AREAS OF CONSTRUCTION UPON COMPLETION OF EACH PROJECT AREA.
5. THE CONTRACTOR WILL NEED TO IDENTIFY AN OFFSITE LOCATION FOR CONCRETE WASHOUT. LOCATION OF CONCRETE WASHOUT NEEDS TO BE IDENTIFIED BEFORE CONCRETE WORK CAN BEGIN, WITH LOCATION PROVIDED TO WSU AND CITY OF PULLMAN.
6. VEHICLES SHOULD PARK ON PAVED SURFACES WHEN POSSIBLE TO PREVENT/REDUCE OFFSITE TRACKING. ANY TRACKING WILL NEED TO BE CLEANED/REMOVED BY THE CONTRACTOR.
7. THE IMPLEMENTATION OF THIS ESC PLAN AND THE CONSTRUCTION, MAINTENANCE, REPLACEMENT, AND UPGRADING OF THESE ESC BMPs IS THE RESPONSIBILITY OF THE CONTRACTOR UNTIL ALL CONSTRUCTION IS COMPLETED AND APPROVED AND VEGETATION/LANDSCAPING IS ESTABLISHED.
8. CLEARING SHALL BE LIMITED TO THE AREAS SHOWN FOR IMPROVEMENTS, WHICH CAN EXTEND UP TO TEN FEET OUTSIDE OF IMPROVED AREAS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL SURFACE RESTORATION IN AREAS DISTURBED BY CONSTRUCTION ACTIVITIES.
9. CONSTRUCT THE ESC BMPs SHOWN ON THIS PLAN IN CONJUNCTION WITH ALL CLEARING AND GRADING ACTIVITIES, AND IN SUCH A MANNER AS TO ENSURE THAT SEDIMENT AND SEDIMENT LADEN WATER DO NOT ENTER THE DRAINAGE SYSTEM, ROADWAYS, OR VIOLATE APPLICABLE WATER STANDARDS.
10. THE ESC BMPs SHOWN ON THIS PLAN ARE THE MINIMUM REQUIREMENTS FOR ANTICIPATED SITE CONDITIONS. DURING THE CONSTRUCTION PERIOD, UPGRADE THESE ESC BMPs AS NEEDED FOR UNEXPECTED STORM EVENTS AND TO ENSURE THAT SEDIMENT AND SEDIMENT-LADEN WATER DO NOT LEAVE THE SITE.
11. THE APPLICANT SHALL INSPECT THE ESC BMPs DAILY AND MAINTAIN THEM AS NECESSARY TO ENSURE THEIR CONTINUED FUNCTIONALITY.
12. INSPECT AND MAINTAIN THE ESC BMPs ON INACTIVE SITES A MINIMUM OF ONCE A MONTH OR WITHIN THE 48 HOURS FOLLOWING A MAJOR STORM EVENT (24-HOUR STORM EVENT WITH A 10-YEAR OR GREATER RECURRENCE INTERVAL).
13. AT NO TIME SHALL THE SEDIMENT EXCEED 1/3 CAPACITY OF THE INLET PROTECTION. ALL CATCH BASINS AND CONVEYANCE LINES SHALL BE CLEANED PRIOR TO PAVING. THE CLEANING OPERATION SHALL NOT FLUSH SEDIMENT LADEN WATER INTO THE DOWNSTREAM SYSTEM.
14. NO GROUND BREAKING CAN OCCUR UNTIL BMPs HAVE BEEN INSTALLED, AND CITY HAS INSPECTED AND APPROVED THE INSTALLATION.
15. BMPs MUST REMAIN IN PLACE UNTIL SITE HAS BEEN STABILIZED, AND CITY HAS INSPECTED AND APPROVED THE STABILIZATION. CONTRACTOR IS RESPONSIBLE FOR REMOVAL OF ALL BMPs AFTERWARDS.
16. ALL CATCH BASIN GRATES INSTALLED MUST BE EMBOSSED WITH "NO DUMPING DRAINS TO STREAM".
17. IF REQUIRED, PROVIDE STABILIZED CONSTRUCTION ENTRANCE AT LOCATIONS THAT CONSTRUCTION VEHICLES AND EQUIPMENT WILL BE ENTERING AND EXITING DISTURBED AREAS. RE: SMMEW BMP #C105E & CITY OF PULLMAN STD. DWG. NO 35.



- |    |                                                                                                                                                                                                         |
|----|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 01 | STORM DRAIN INLET PROTECTION; RE:<br>WSDOT STD. PLAN I-40.20-00                                                                                                                                         |
| 02 | SEE LANDSCAPING PLANS FOR SEEDING,<br>MULCH, AND TOPSOIL                                                                                                                                                |
| 03 | PERIMETER CONTROL - CONTRACTOR<br>SHALL LIMIT ACCESS TO THE SITE WITH<br>TRAFFIC CONTROL CONES, BARRELS, OR<br>OTHER DEVICES TO KEEP OUTSIDE<br>PERSONS/VEHICLES FROM ENTERING THE<br>CONSTRUCTION SITE |

DESIGN FIRM:

The logo for Keller Associates, featuring the word "KELLER" in large, bold, dark blue capital letters, with "ASSOCIATES" in smaller, bold, green capital letters below it. To the right is a stylized graphic element consisting of a dark blue 'K' shape with a green triangle pointing to the right.

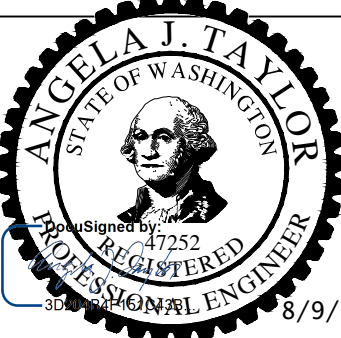
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(509) 295-6095

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UNIVERSITY

Facilities Services PH 509-335-5571  
2425 E. Grimes Way FAX 509-335-9304  
Pullman, Wa. 99164-1150

## SIDEWALKS

SHARED USE PATH ON SR270 TO STADIUM  
WAY

708D

[illegible]

CAD DWG FILE: ERSC PLAN.dwg

DESIGN BY: A. TAYLOR

DRAWN BY: I. CRANE

CHECKED BY: A. TAYLOR

PROJECT No. 9705-2018

WASHINGTON STATE UNIVERSITY

SHEET TITLE

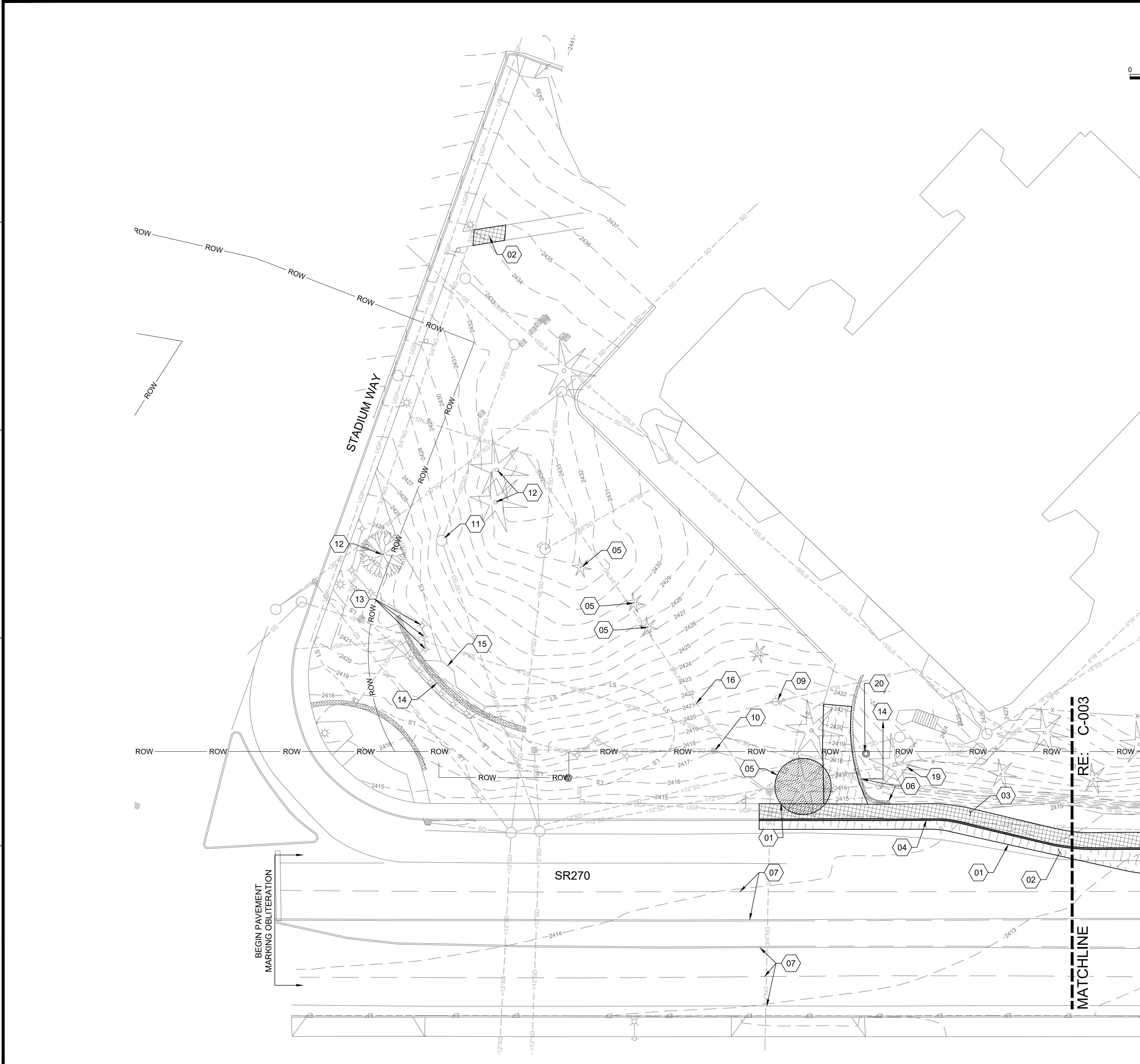
# EROSION & SEDIMENT CONTROL PLAN

C-001

SHEET 4 OF 28 SHEETS



FILE: J:\221162\WSU SR270 Pathway\c\_DESN\CAD3\_DESIGN\PLANS-1\DEMO PLAN.dwg PLOT DATE: September 9, 2021, 10:44 AM ORIGINAL PAPER SIZE: 22" x 34"



GENERAL NOTES

- A. ALL DEMOLITION AND CONSTRUCTION DEBRIS TO BE DISPOSED OF IN ACCORDANCE WITH SPECIFICATIONS.
- B. RETAIN & PROTECT ALL ABOVE GROUND AND BELOW GROUND UTILITIES. PRIOR TO CONSTRUCTION CONTRACTOR TO POT-HOLE, IN A NON-DESTRUCTIVE MANNER, EXISTING UTILITIES TO VERIFY LOCATION & DEPTH.
- C. RETAIN & PROTECT TREES & VEGETATION NOT SPECIFICALLY CALLED OUT FOR REMOVAL

KEYED NOTES

- 01 SAWCUT PAVEMENT, CONCRETE SIDEWALK, OR CURB & GUTTER - LEAVE A CLEAN VERTICAL LINE
- 02 DEMOLISH ASPHALT PAVEMENT
- 03 DEMOLISH CONCRETE SIDEWALK
- 04 DEMOLISH CONCRETE CURBING
- 05 REMOVE TREE AND STUMP OR VEGETATION
- 06 DEMOLISH RETAINING WALL
- 07 OBLITERATE PAVEMENT MARKINGS
- 09 RETAIN & PROTECT FIRE HYDRANT
- 10 ADJUST STORM DRAIN INLET TO GRADE
- 11 ADJUST STORM DRAIN MANHOLE TO GRADE
- 12 RETAIN & PROTECT TREE
- 13 RETAIN & PROTECT LIGHTS
- 14 RETAIN & PROTECT RETAINING WALL
- 15 RETAIN & PROTECT CONCRETE PAD
- 16 AVISTA LOWERING AND RELOCATING GAS LINE / MARKERS. CONTRACTOR SHALL COORDINATE WITH WSU / AVISTA FOR THIS WORK BY AVISTA
- 19 SHORTEN FENCE TO TOP OF NEW ROCK FACE EXTENTS
- 20 CONTRACTOR SHALL PROTECT SURVEY CONTROL (REBAR)

LEGEND

- DEMOLISH CURBING
- DEMOLISH ASPHALT PAVEMENT
- DEMOLISH CONCRETE SIDEWALK
- REMOVE TREE AND STUMP OR VEGETATION

DESIGN FIRM:



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PROVISIONAL STAMP:



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2425 E. Grimes Way FAX 509-335-9304  
Pullman, Wa. 99164-1150

SIDEWALKS

SHARED USE PATH ON SR270 TO STADIUM WAY

708D

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|----------------------------------------|-----------------------|
| CAD DWG FILE: DEMO PLAN.dwg            |                       |
| DESIGN BY: A. TAYLOR                   |                       |
| DRAWN BY: I. CRANE                     | CHECKED BY: A. TAYLOR |
| PROJECT No. 9705-2018                  | FILE No. 708D-174     |
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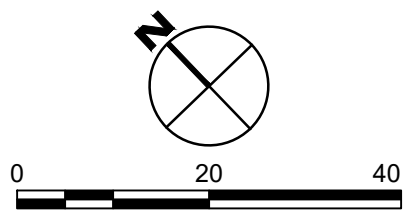
SHEET TITLE

DEMO PLAN  
STA. 1+00 TO 4+40

C-002

SHEET 5 OF 28 SHEETS





- A. ALL DEMOLITION AND CONSTRUCTION DEBRIS TO BE DISPOSED OF IN ACCORDANCE WITH SPECIFICATIONS.
- B. RETAIN & PROTECT ALL ABOVE GROUND AND BELOW GROUND UTILITIES. PRIOR TO CONSTRUCTION CONTRACTOR TO POT-HOLE, IN A NON-DESTRUCTIVE MANNER, EXISTING UTILITIES TO VERIFY LOCATION & DEPTH.
- C. RETAIN & PROTECT TREES & VEGETATION NOT SPECIFICALLY CALLED OUT FOR REMOVAL

|    |                                                                                          |
|----|------------------------------------------------------------------------------------------|
| 01 | SAWCUT PAVEMENT, CONCRETE<br>SIDEWALK, OR CURB & GUTTER - LEAVE<br>A CLEAN VERTICAL LINE |
| 02 | DEMOLISH ASPHALT PAVEMENT                                                                |
| 03 | DEMOLISH CONCRETE SIDEWALK                                                               |
| 04 | DEMOLISH CONCRETE CURBING                                                                |
| 07 | OBLITERATE PAVEMENT MARKINGS                                                             |
| 17 | PROTECT EXISTING 8" STORM DRAIN<br>OUTFALL TO DITCH                                      |

-  DEMOLISH CURBING
-  DEMOLISH ASPHALT PAVEMENT
-  DEMOLISH CONCRETE SIDEWALK
-  REMOVE TREE AND STUMP OR VEGETATION



**KELLER**  
ASSOCIATES

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2425 E. Grimes Way FAX 509-335-9304  
Pullman, Wa. 99164-1150

SHARED USE PATH ON SR270 TO STADIUM  
WAY

708D

[illegible]

DESIGN BY: A. TAYLOR

CHECKED BY: A. TAYLOR

FILE No. 708D-174

SHEET TITLE

C-003

SHEET 6 OF 28 SHEETS



FILE: J:\221162\WSU SR270 Pathway\c\_DESN\CAD\3\_DESIGN\PLANS-1\DEMO PLAN.dwg PLOT DATE: September 9, 2021, 10:44 AM ORIGINAL PAPER SIZE: 22" x 34"

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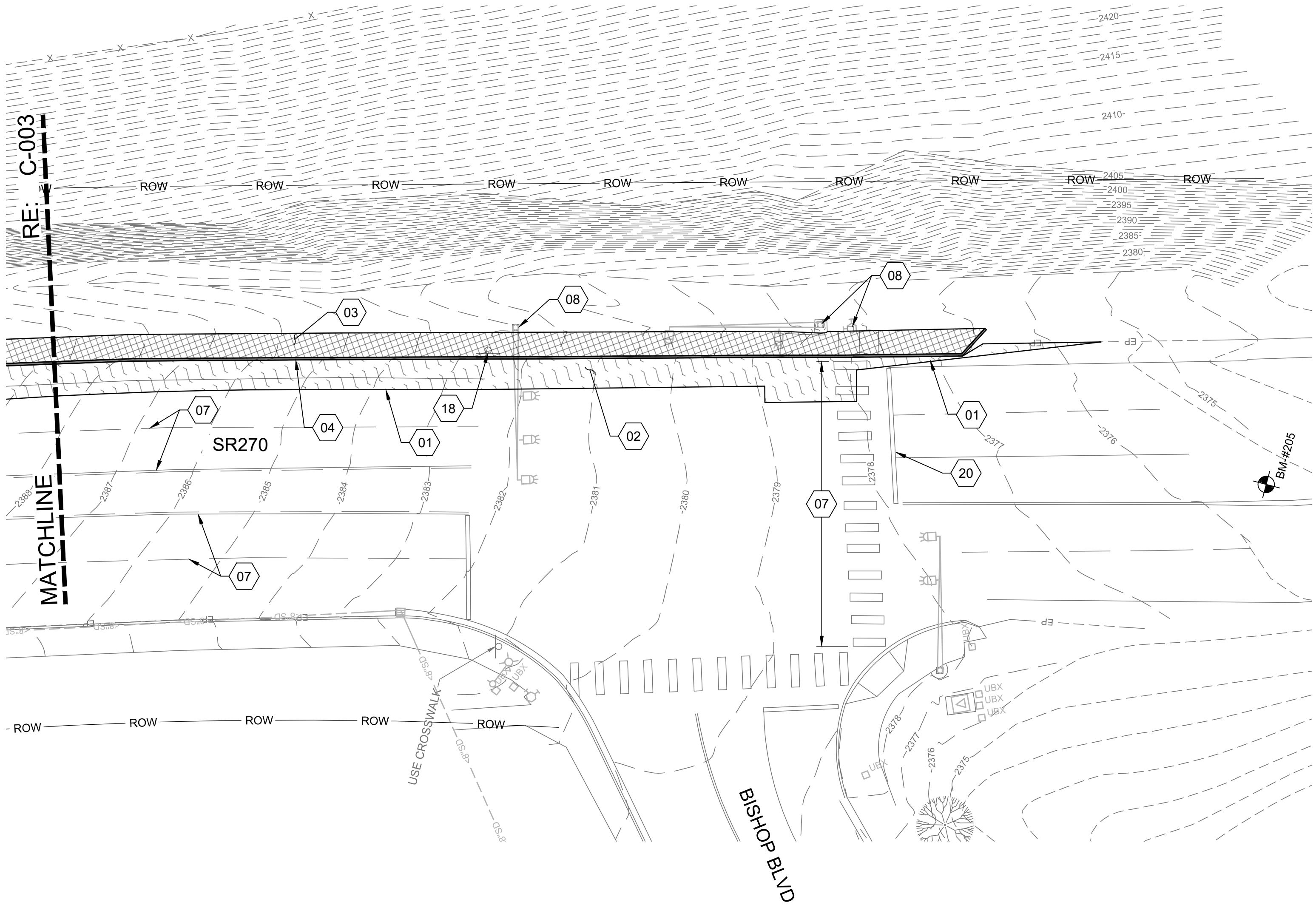
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GENERAL NOTES

- A. ALL DEMOLITION AND CONSTRUCTION DEBRIS TO BE DISPOSED OF IN ACCORDANCE WITH SPECIFICATIONS.
- B. RETAIN & PROTECT ALL ABOVE GROUND AND BELOW GROUND UTILITIES. PRIOR TO CONSTRUCTION CONTRACTOR TO POT-HOLE, IN A NON-DESTRUCTIVE MANNER, EXISTING UTILITIES TO VERIFY LOCATION & DEPTH.
- C. RETAIN & PROTECT TREES & VEGETATION NOT SPECIFICALLY CALLED OUT FOR REMOVAL

KEYED NOTES

- 01 SAWCUT PAVEMENT, CONCRETE SIDEWALK, OR CURB & GUTTER - LEAVE A CLEAN VERTICAL LINE
- 02 DEMOLISH ASPHALT PAVEMENT
- 03 DEMOLISH CONCRETE SIDEWALK
- 04 DEMOLISH CONCRETE CURBING
- 07 OBLITERATE PAVEMENT MARKINGS
- 08 RETAIN & PROTECT TRAFFIC AND PEDESTRIAN SIGNALS
- 18 REMOVE & RELOCATE TO BACK OF PATH "NO PED XING" SIGN ON BREAK AWAY POST
- 20 RETAIN & PROTECT STOP BAR

LEGEND

- DEMOLISH CURBING
- DEMOLISH ASPHALT PAVEMENT
- DEMOLISH CONCRETE SIDEWALK
- REMOVE TREE AND STUMP OR VEGETATION

DESIGN FIRM:

**KELLER ASSOCIATES**

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CONSULTANTS:

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Pullman, Wa. 99164-1150

SIDEWALKS

SHARED USE PATH ON SR270 TO STADIUM WAY

708D

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| CAD DWG FILE: DEMO PLAN.dwg            |                       |
| DESIGN BY: A. TAYLOR                   |                       |
| DRAWN BY: I. CRANE                     | CHECKED BY: A. TAYLOR |
| PROJECT No. 9705-2018                  | FILE No. 708D-174     |
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SHEET TITLE

DEMO PLAN  
STA. 14+20 TO END

C-004

SHEET 7 OF 28 SHEETS

1

2

3

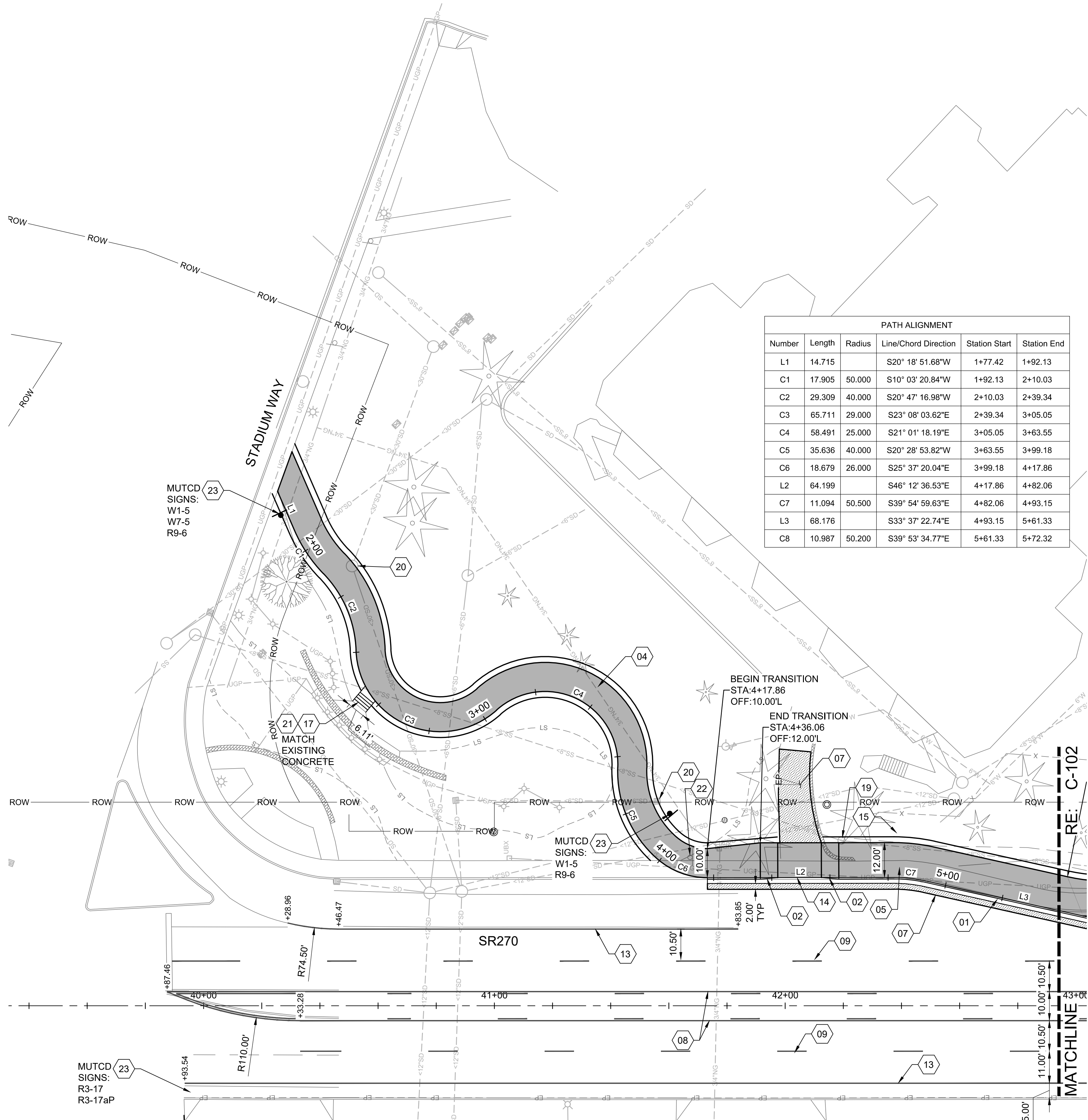
4

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7





| PATH ALIGNMENT |        |        |                      |               |             |
|----------------|--------|--------|----------------------|---------------|-------------|
| Number         | Length | Radius | Line/Chord Direction | Station Start | Station End |
| L1             | 14.715 |        | S20° 18' 51.68"W     | 1+77.42       | 1+92.13     |
| C1             | 17.905 | 50.000 | S10° 03' 20.84"W     | 1+92.13       | 2+10.03     |
| C2             | 29.309 | 40.000 | S20° 47' 16.98"W     | 2+10.03       | 2+39.34     |
| C3             | 65.711 | 29.000 | S23° 08' 03.62"E     | 2+39.34       | 3+05.05     |
| C4             | 58.491 | 25.000 | S21° 01' 18.19"E     | 3+05.05       | 3+63.55     |
| C5             | 35.636 | 40.000 | S20° 28' 53.82"W     | 3+63.55       | 3+99.18     |
| C6             | 18.679 | 26.000 | S25° 37' 20.04"E     | 3+99.18       | 4+17.86     |
| L2             | 64.199 |        | S46° 12' 36.53"E     | 4+17.86       | 4+82.06     |
| C7             | 11.094 | 50.500 | S39° 54' 59.63"E     | 4+82.06       | 4+93.15     |
| L3             | 68.176 |        | S33° 37' 22.74"E     | 4+93.15       | 5+61.33     |
| C8             | 10.987 | 50.200 | S39° 53' 34.77"E     | 5+61.33       | 5+72.32     |

GENERAL NOTES

- A. RETAIN & PROTECT EXISTING UTILITIES, PRIOR TO CONSTRUCTION CONTRACTOR TO POT-HOLE, IN A NON-DESTRUCTIVE MANNER, EXISTING UTILITIES TO VERIFY LOCATION & DEPTH.
- B. RETAIN & PROTECT EXISTING LANDSCAPING, TREES & ROOT SYSTEMS.
- C. FURNISH MATERIALS WHERE INSTALL, PLACE, OR CONSTRUCT IS REQUIRED, UNLESS NOTED OTHERWISE.
- D. REFER TO WSDOT STANDARD PLANS FOR MARKING STANDARDS. M-3.40-04, M-5.10-03, M-9.50-02, M-15.10-01, M-20.10-03.
- E. SAWCUT CURBS, PAVEMENT, & SIDEWALKS LEAVING A NEAT CLEAN LINE WHERE MATCHING INTO EXISTING.



KEYED NOTES

- 01 CONSTRUCT CURB & GUTTER; RE: CITY OF PULLMAN STD DWG 5/C-503
- 02 CONSTRUCT 5' CURB TRANSITION
- 04 CONSTRUCT CONCRETE PATHWAY SECTION 1; RE: B1/C-501
- 05 CONSTRUCT CONCRETE PATHWAY SECTION 2; RE: B3/C-501
- 07 CONSTRUCT ASPHALT SECTION; RE: C1/501
- 08 PLACE 4" YELLOW - NO PASS LINE & TWO-WAY LEFT-TURN CENTERLINE
- 09 PLACE 4" WHITE - CENTERLINE & LANE LINE (10' LINE WITH 30' GAP)
- 13 PLACE SOLID LANE LINE
- 14 CONSTRUCT ROLLED CURB & GUTTER; RE: CITY OF PULLMAN STD DWG 7/C-503
- 15 EXCAVATE CLEAN ROCK FACE IN EXISTING ROCK TO MATCH GRADING, SEE GRADING PLANS
- 17 CONSTRUCT CONCRETE STAIRS; RE: A3/C-502
- 19 ADJUST MANHOLE TO GRADE
- 20 ADJUST INLET TO GRADE
- 21 INSTALL HANDRAIL (EACH SIDE); RE: B3/C-502
- 22 RELOCATE BUS STOP SIGN TO BACK OF SHOULDER
- 23 INSTALL SIGN PER WSDOT STD. DWG. G-24.50-05

MUTCD SIGNAGE:



DESIGN FIRM:



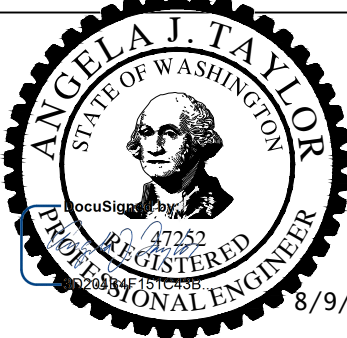
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SIDEWALKS

SHARED USE PATH ON SR270 TO STADIUM WAY

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|----------------------------------------|-----------------------|
| CAD DWG FILE: HZCNTRL PLAN.dwg         |                       |
| DESIGN BY: A. TAYLOR                   |                       |
| DRAWN BY: I. CRANE                     | CHECKED BY: A. TAYLOR |
| PROJECT No. 9705-2018                  | FILE No. 708D-174     |
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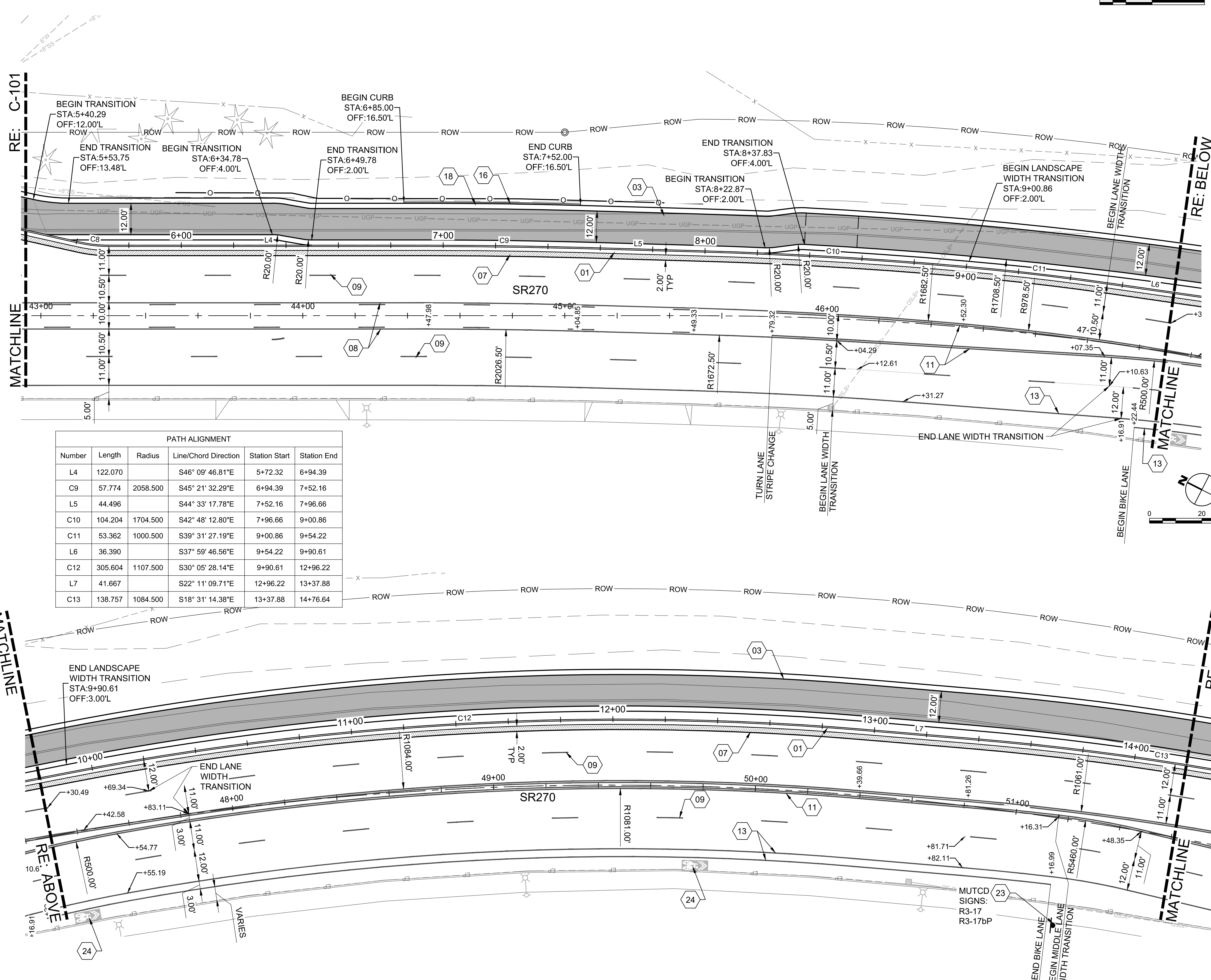
SHEET TITLE

HORIZONTAL  
CONTROL PLAN  
STA. 1+00 TO 5+40

C-101

SHEET 8 OF 28 SHEETS





| PATH ALIGNMENT |         |          |                      |               |             |
|----------------|---------|----------|----------------------|---------------|-------------|
| Number         | Length  | Radius   | Line/Chord Direction | Station Start | Station End |
| L4             | 122.070 |          | S46° 09' 46.81"E     | 5+72.32       | 6+94.39     |
| C9             | 57.774  | 2058.500 | S45° 21' 32.29"E     | 6+94.39       | 7+52.16     |
| L5             | 44.496  |          | S44° 33' 17.78"E     | 7+52.16       | 7+96.66     |
| C10            | 104.204 | 1704.500 | S42° 48' 12.80"E     | 7+96.66       | 9+00.86     |
| C11            | 53.362  | 1000.500 | S39° 31' 27.19"E     | 9+00.86       | 9+54.22     |
| L6             | 36.390  |          | S37° 59' 46.56"E     | 9+54.22       | 9+90.61     |
| C12            | 305.604 | 1107.500 | S30° 05' 28.14"E     | 9+90.61       | 12+96.22    |
| L7             | 41.667  |          | S22° 11' 09.71"E     | 12+96.22      | 13+37.88    |
| C13            | 138.757 | 1084.500 | S18° 31' 14.38"E     | 13+37.88      | 14+76.64    |

GENERAL NOTES

- A. RETAIN & PROTECT EXISTING UTILITIES. PRIOR TO CONSTRUCTION CONTRACTOR TO POT-HOLE, IN A NON-DESTRUCTIVE MANNER, EXISTING UTILITIES TO VERIFY LOCATION & DEPTH.
- B. RETAIN & PROTECT EXISTING LANDSCAPING, TREES & ROOT SYSTEMS.
- C. FURNISH MATERIALS WHERE INSTALL, PLACE, OR CONSTRUCT IS REQUIRED, UNLESS NOTED OTHERWISE.
- D. REFER TO WSDOT STANDARD PLANS FOR MARKING STANDARDS. M-3.40-04, M-5.10-03, M-9.50-02, M-15.10-01, M-20.10-03.
- E. SAWCUT CURBS, PAVEMENT, & SIDEWALKS LEAVING A NEAT CLEAN LINE WHERE MATCHING INTO EXISTING.

KEYED NOTES

- 01 CONSTRUCT CURB & GUTTER; RE: CITY OF PULLMAN STD DWG 5/C-503
- 03 CONSTRUCT TYPICAL CONCRETE PATHWAY SECTION; RE: A2/C-501
- 07 CONSTRUCT ASPHALT SECTION; RE: C1/501
- 08 PLACE 4" YELLOW - NO PASS LINE & TWO-WAY LEFT-TURN CENTERLINE
- 09 PLACE 4" WHITE - CENTERLINE & LANE LINE (10' LINE WITH 30' GAP)
- 11 PLACE DOUBLE CENTERLINE
- 13 PLACE SOLID LANE LINE
- 16 INSTALL 6" HIGH BLACK VINYL CHAINLINK FENCE, TYPE 3; RE: WSDOT STANDARD PLAN L-20.10-03 L=200'
- 18 CONSTRUCT STANDING CURB (AT BACK OF SHOULDER); RE: CITY OF PULLMAN STD DWG 6 C-503
- 23 INSTALL SIGN PER WSDOT STD. DWG. G-24.50-05
- 24 ADD BICYCLE SYMBOL PER WSDOT STANDARD PLAN M-9.50-02, TYP.

MUTCD SIGNAGE:



DESIGN FIRM:

**KELLER ASSOCIATES**

733 5th Street #A  
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(509) 295-6095

CONSULTANTS:

**B W A BERNARDO WILLS**  
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PROVISIONAL STAMP:

**ANGELA J. TAYLOR**  
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REGISTERED PROFESSIONAL ENGINEER  
47352  
8/12/2022

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2425 E. Grimes Way FAX 509-335-9304  
Pullman, Wa. 99164-1150

**SIDEWALKS**

SHARED USE PATH ON SR270 TO STADIUM WAY

708D

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CAD DWG FILE: HZCNTRL PLAN.dwg

DESIGN BY: A. TAYLOR

DRAWN BY: I. CRANE CHECKED BY: A. TAYLOR

PROJECT No. 9705-2018 FILE No. 708D-174

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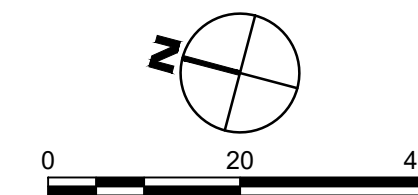
SHEET TITLE

**HORIZONTAL CONTROL PLAN**  
STA. 5+40 TO 14+20

**C-102**

SHEET 9 OF 28 SHEETS





| PATH ALIGNMENT |        |        |                      |               |             |
|----------------|--------|--------|----------------------|---------------|-------------|
| Number         | Length | Radius | Line/Chord Direction | Station Start | Station End |
| L8             | 41.723 |        | S14° 51' 19.04"E     | 14+76.64      | 15+18.37    |
| L9             | 95.653 |        | S15° 32' 10.08"E     | 15+18.37      | 16+14.02    |

- A. RETAIN & PROTECT EXISTING UTILITIES, PRIOR TO CONSTRUCTION CONTRACTOR TO POT-HOLE, IN A NON-DESTRUCTIVE MANNER, EXISTING UTILITIES TO VERIFY LOCATION & DEPTH.
- B. RETAIN & PROTECT EXISTING LANDSCAPING, TREES & ROOT SYSTEMS.
- C. FURNISH MATERIALS WHERE INSTALL, PLACE, OR CONSTRUCT IS REQUIRED, UNLESS NOTED OTHERWISE.
- D. REFER TO WSDOT STANDARD PLANS FOR MARKING STANDARDS. M-3.40-04, M-5.10-03, M-9.50-02, M-15.10-01, M-20.10-03.
- E. SAWCUT CURBS, PAVEMENT, & SIDEWALKS LEAVING A NEAT CLEAN LINE WHERE MATCHING INTO EXISTING

|    |                                                                    |
|----|--------------------------------------------------------------------|
| 01 | CONSTRUCT CURB & GUTTER; RE: CITY<br>OF PULLMAN STD DWG 5/C-503    |
| 03 | CONSTRUCT TYPICAL CONCRETE<br>PATHWAY SECTION; RE: A2/C-501        |
| 05 | CONSTRUCT CONCRETE PATHWAY<br>SECTION 2; RE: B3/C-501              |
| 06 | CONSTRUCT PEDESTRIAN CURB RAMP;<br>RE: A1/C-502                    |
| 07 | CONSTRUCT ASPHALT SECTION; RE:<br>C1/501                           |
| 09 | PLACE 4" WHITE - CENTERLINE & LANE<br>LINE (10' LINE WITH 30' GAP) |
| 10 | PLACE 24" x 8' SOLID WHITE LANE; RE:<br>WSDOT STD. PLAN M-15.10-01 |
| 11 | PLACE DOUBLE CENTERLINE                                            |
| 12 | PLACE DOTTED EXTENSION LINE (2' LINE<br>WITH 6' GAP)               |
| 13 | PLACE SOLID LANE LINE                                              |
| 23 | RELOCATE SIGN TO BACK OF SHOULDER                                  |
| 24 | CONSTRUCT ASPHALT RAMP TO TOP<br>BACK OF CURB                      |

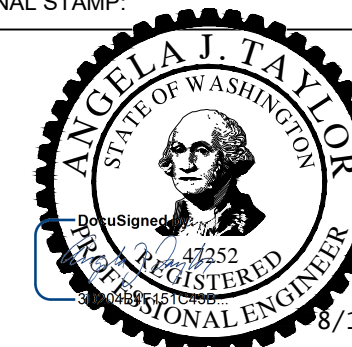


**KELLER**  
ASSOCIATES

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Pullman, Wa. 99164-1150

## SIDEWALKS

SHARED USE PATH ON SR270 TO STADIUM  
WAY

708D

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CAD DWG FILE: HZCNTRL PLAN.dwg

DESIGN BY: A. TAYLOR

DRAWN BY: I. CRANE

|                       |
|-----------------------|
| CHECKED BY: A. TAYLOR |
|-----------------------|

PROJECT No. 9705-2018

WASHINGTON STATE UNIVERSITY

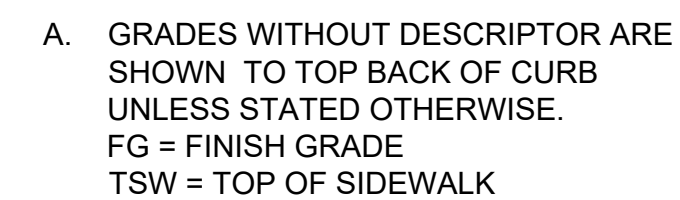
SHEET TITLE

HORIZONTAL  
CONTROL PLAN  
STA. 14+20 TO END

C-103

SHEET 10 OF 28 SHEET





06 CONTRACTOR SHALL GRADE BACK INTO  
RIPABLE ROCK FACE TO CONSTRUCT  
PATH.

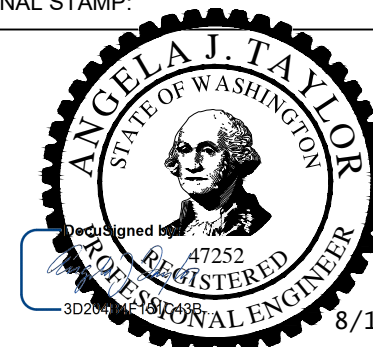


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Pullman, Wa. 99164-1150

SHARED USE PATH ON SR270 TO STADIUM  
WAY

708D

[illegible]

CAD DWG FILE: GRAD PLAN.dwg

DESIGN BY: A. TAYLOR

DRAWN BY: I. CRANE

|                       |
|-----------------------|
| CHECKED BY: A. TAYLOR |
|-----------------------|

PROJECT No. 9705-2018

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SHEET TITLE

# GRADING PLAN

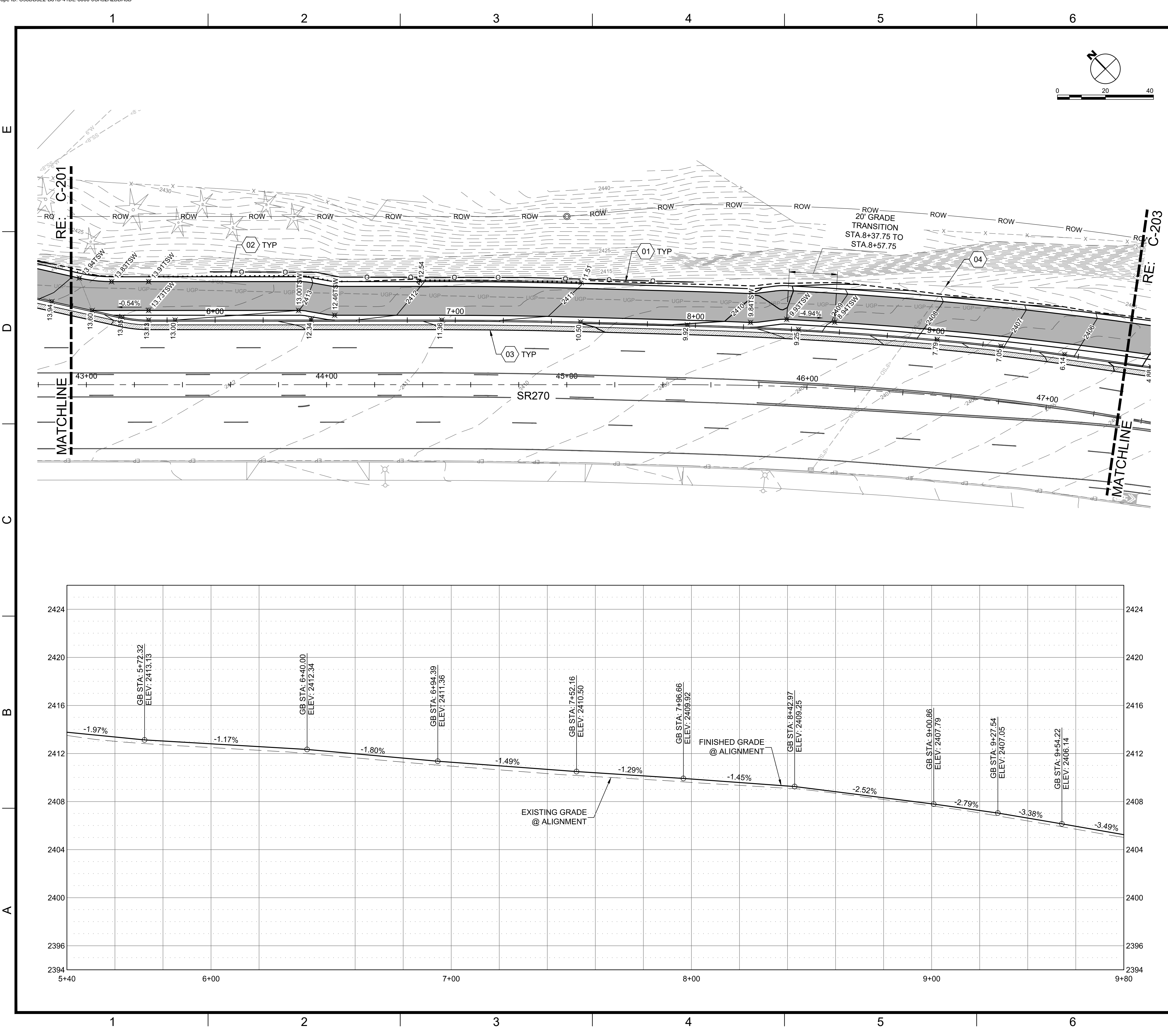
## STA. 1+00 TO 5+40

C-201

SHEET 11 OF 28 SHEET



FILE: \\J221162\WSU SR270 Pathway\c\_DESN\CAD\3\_DESIGN\PLANS-1\GRAD PLAN.dwg PLOT DATE: September 9, 2021, 10:44 AM ORIGINAL PAPER SIZE: 22" x 34"



### GENERAL NOTES

- A. GRADES WITHOUT DESCRIPTOR ARE SHOWN TO TOP BACK OF CURB UNLESS STATED OTHERWISE.  
FG = FINISH GRADE  
TSW = TOP OF SIDEWALK

### KEYED NOTES

- 01 DAYLIGHT CUT LINE  
02 DAYLIGHT FILL LINE  
03 MATCH EXISTING  
04 MAINTAIN OUTFALL OF 8" STORM DRAIN PIPE

DESIGN FIRM:

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**SIDEWALKS**

SHARED USE PATH ON SR270 TO STADIUM WAY

708D

| MARK | DATE | DESCRIPTION |
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CAD DWG FILE: GRAD PLAN.dwg  
DESIGN BY: A. TAYLOR  
DRAWN BY: I. CRANE  
PROJECT No. 9705-2018  
CHECKED BY: A. TAYLOR  
FILE No. 708D-174  
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SHEET TITLE

**GRADING PLAN  
STA. 5+40 TO 9+80**

**C-202**

SHEET 12 OF 28 SHEETS



FILE: \\J221162\WSU SR270 Pathway\c\_DESN\CAD\3\_DESIGN\PLANS-1\GRAD PLAN.dwg PLOT DATE: September 9, 2021, 10:44 AM ORIGINAL PAPER SIZE: 22" x 34"

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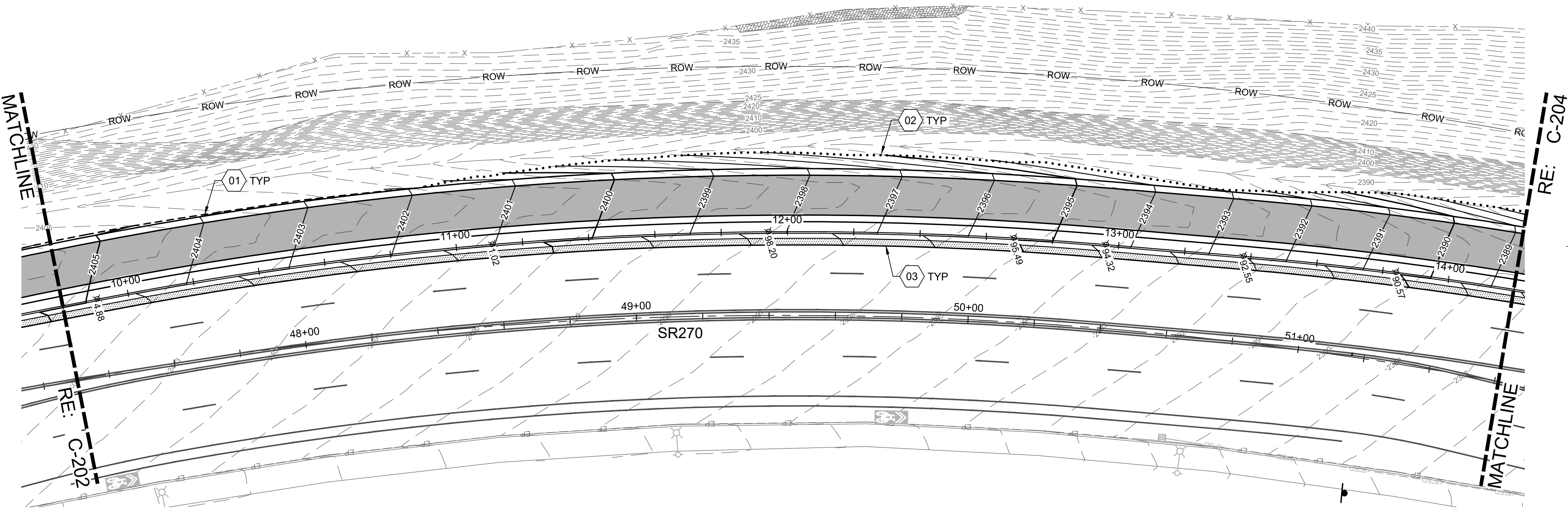
3

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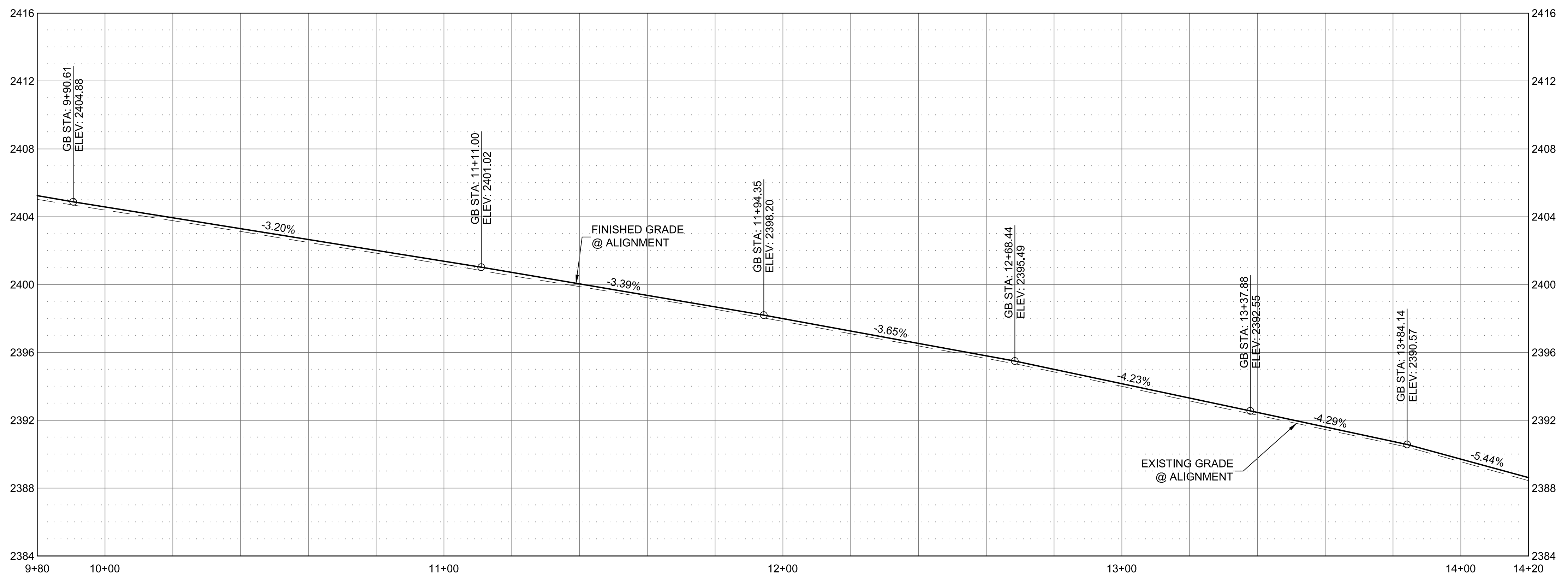


### GENERAL NOTES

- A. GRADES WITHOUT DESCRIPTOR ARE SHOWN TO TOP BACK OF CURB UNLESS STATED OTHERWISE.  
FG = FINISH GRADE  
TSW = TOP OF SIDEWALK

### KEYED NOTES

- 01 DAYLIGHT CUT LINE  
02 DAYLIGHT FILL LINE  
03 MATCH EXISTING



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DESIGN FIRM:

**KELLER ASSOCIATES**

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Clarkston, WA 99403  
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### SIDEWALKS

SHARED USE PATH ON SR270 TO STADIUM WAY

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| CAD DWG FILE: GRAD PLAN.dwg            |                       |
| DESIGN BY: A. TAYLOR                   |                       |
| DRAWN BY: I. CRANE                     | CHECKED BY: A. TAYLOR |
| PROJECT No. 9705-2018                  | FILE No. 708D-174     |
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SHEET TITLE

**GRADING PLAN**  
**STA. 9+20 TO 14+20**

**C-203**

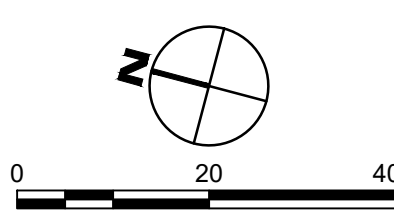
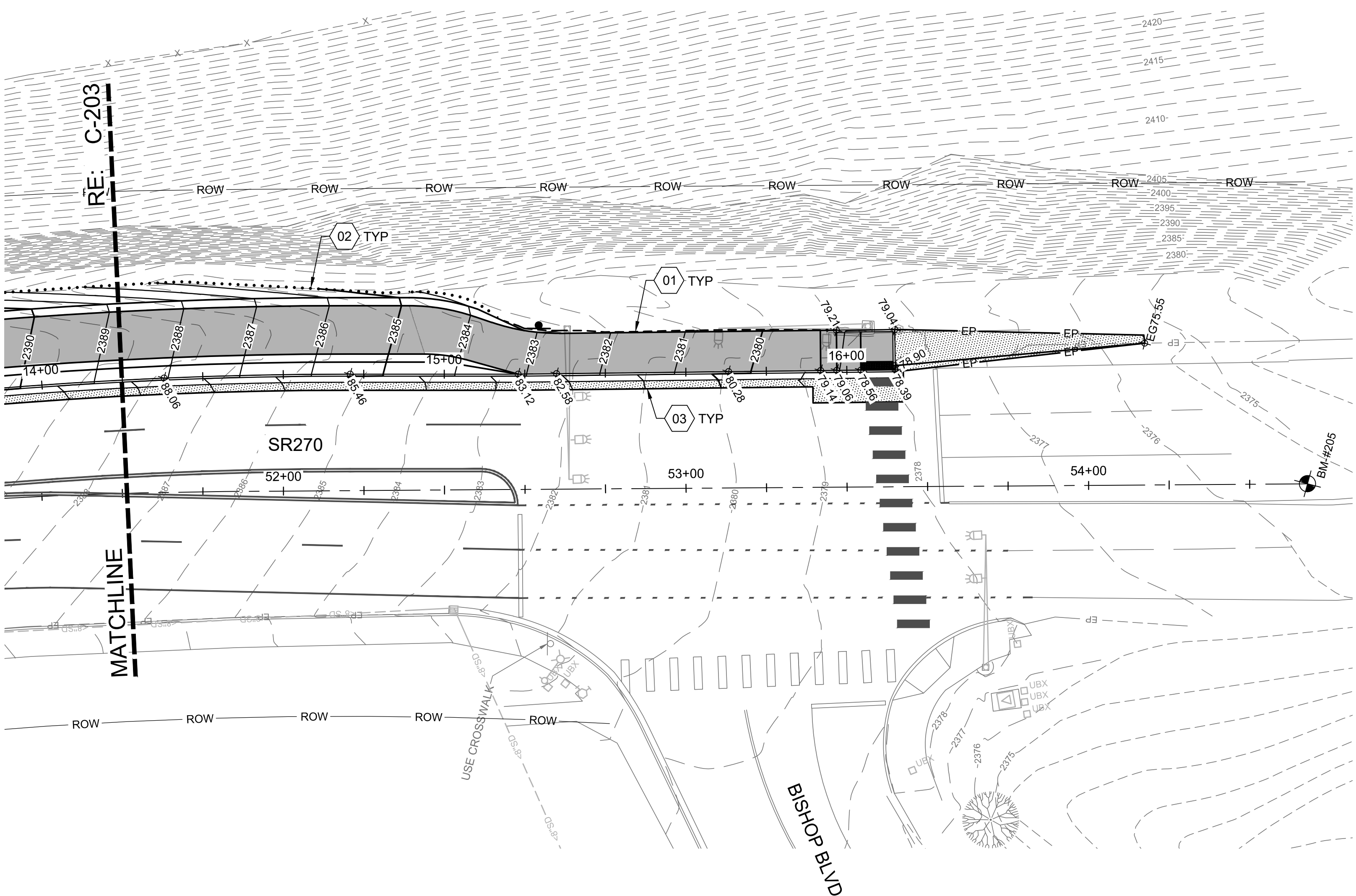
SHEET 13 OF 28 SHEETS



FILE: J:\221162\WSU SR270 Pathway\c\_DESN\CAD\3\_DESIGN\PLANS-1\GRAD PLAN.dwg PLOT DATE: September 9, 2021, 10:44 AM ORIGINAL PAPER SIZE: 22" x 34"

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1 2 3 4 5 6 7

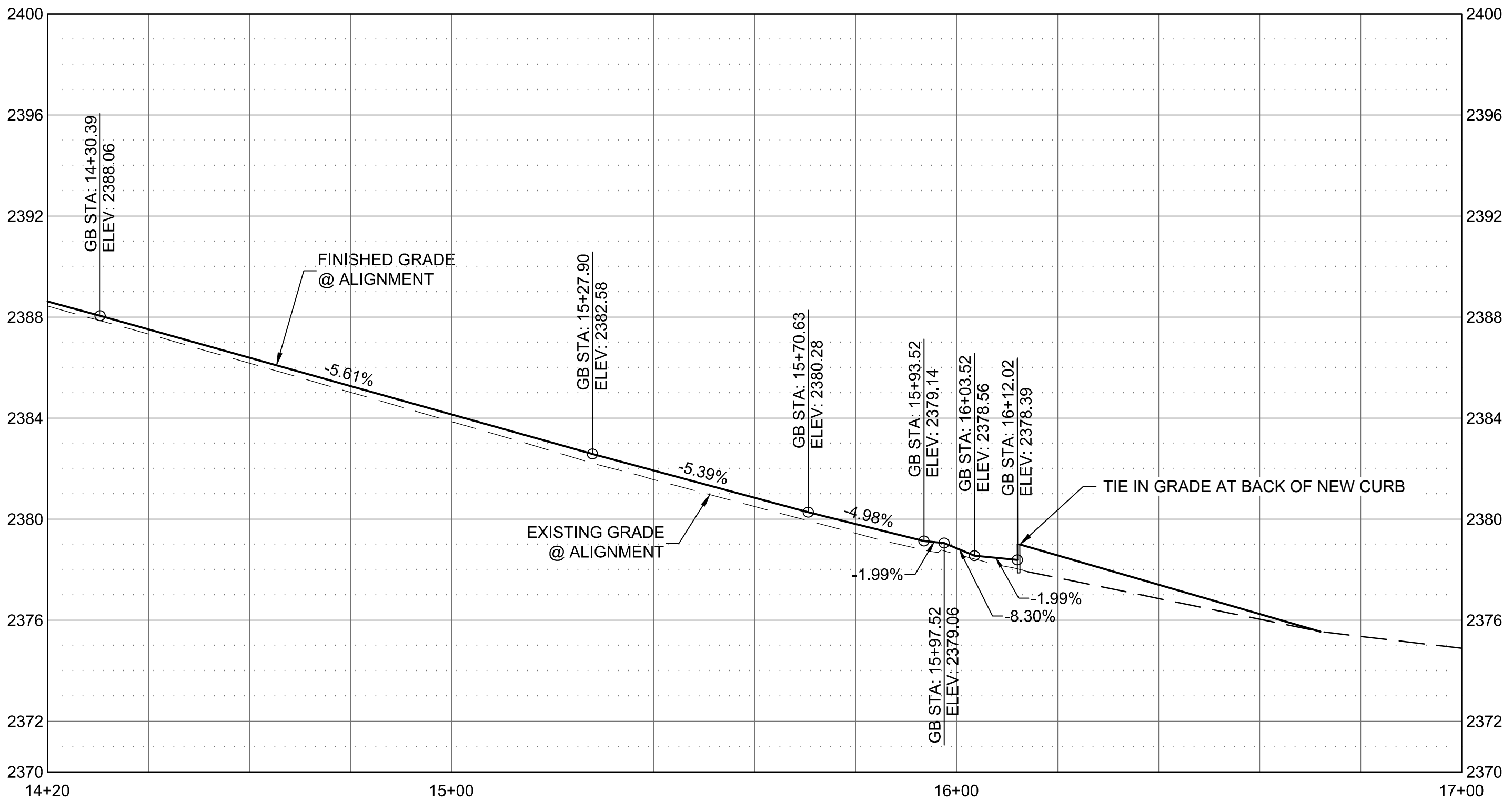


### GENERAL NOTES

- A. GRADES WITHOUT DESCRIPTOR ARE SHOWN TO TOP BACK OF CURB UNLESS STATED OTHERWISE.  
FG = FINISH GRADE  
TSW = TOP OF SIDEWALK

### KEYED NOTES

- 01 DAYLIGHT CUT LINE  
02 DAYLIGHT FILL LINE  
03 MATCH EXISTING



DESIGN FIRM:

**KELLER ASSOCIATES**

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8/12/2022

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Pullman, Wa. 99164-1150

**SIDEWALKS**

SHARED USE PATH ON SR270 TO STADIUM WAY

708D

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CAD DWG FILE: GRAD PLAN.dwg  
DESIGN BY: A. TAYLOR  
DRAWN BY: I. CRANE  
PROJECT No. 9705-2018  
CHECKED BY: A. TAYLOR  
FILE No. 708D-174  
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SHEET TITLE

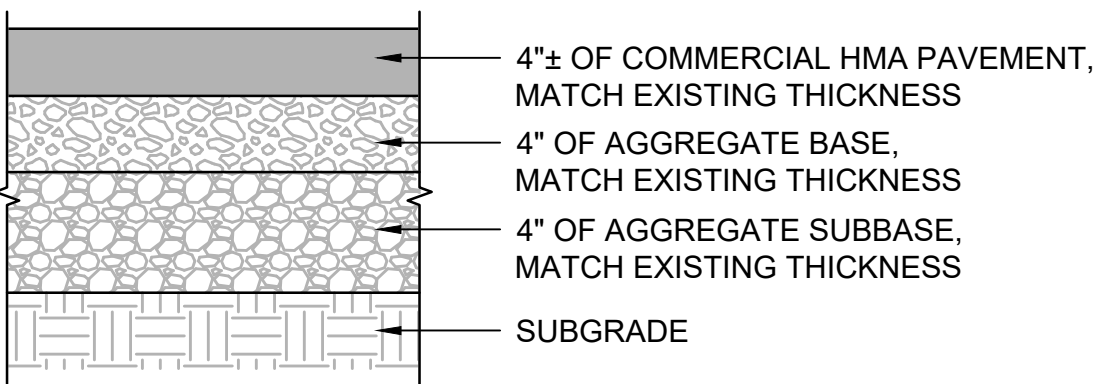
**GRADING PLAN  
STA. 14+20 TO END**

**C-204**

SHEET 14 OF 28 SHEETS

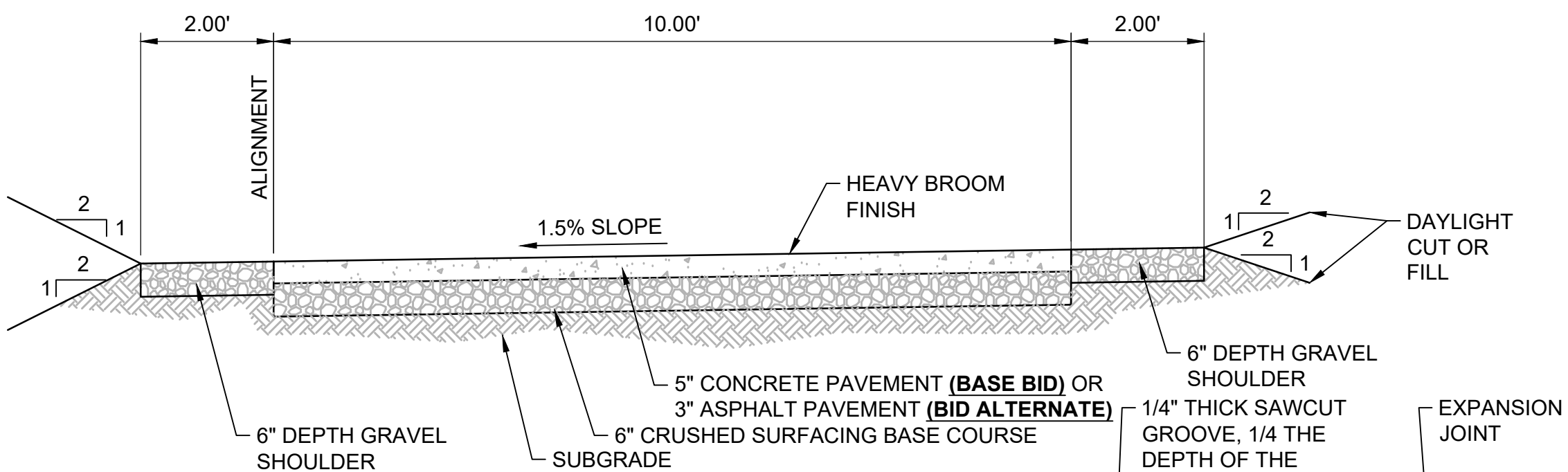


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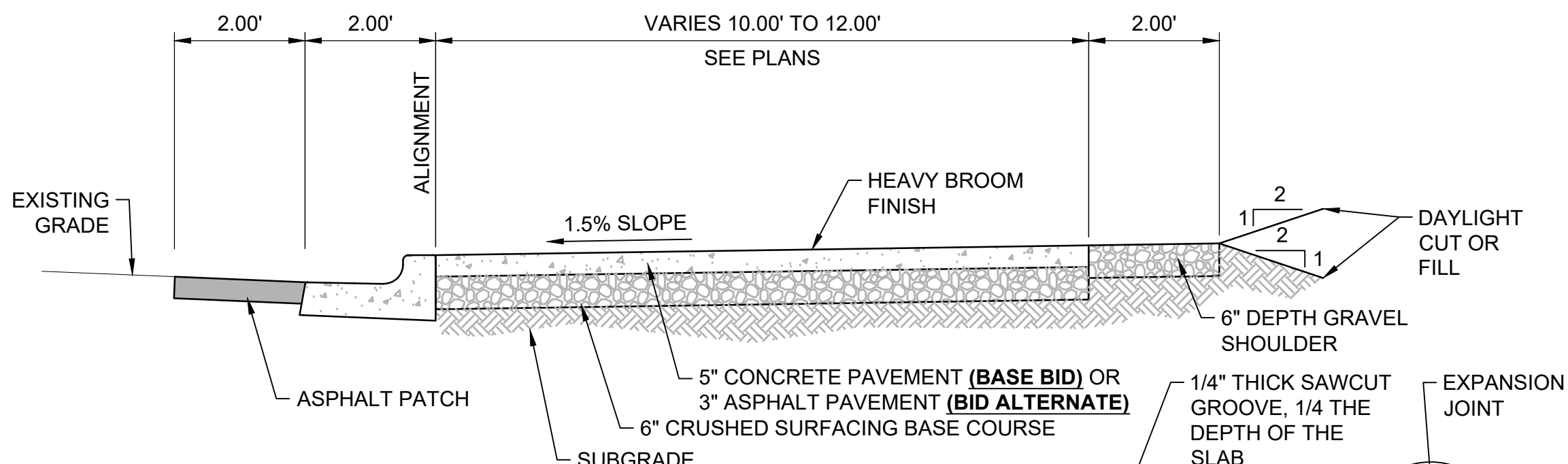
- NOTES:
- SEE SPECIFICATIONS FOR MATERIALS AND CONSTRUCTION REQUIREMENT. REFER TO 2022 WSDOT STANDARD SPECIFICATIONS FOR ROAD, BRIDGE, AND MUNICIPAL CONSTRUCTION, DIVISION 5-04.
  - ASPHALT SHALL BE COMMERCIAL HMA.
  - PREPARE SUBGRADE IN ACCORDANCE WITH SPECIFICATIONS.

**C1** ASPHALT SECTION  
N.T.S.



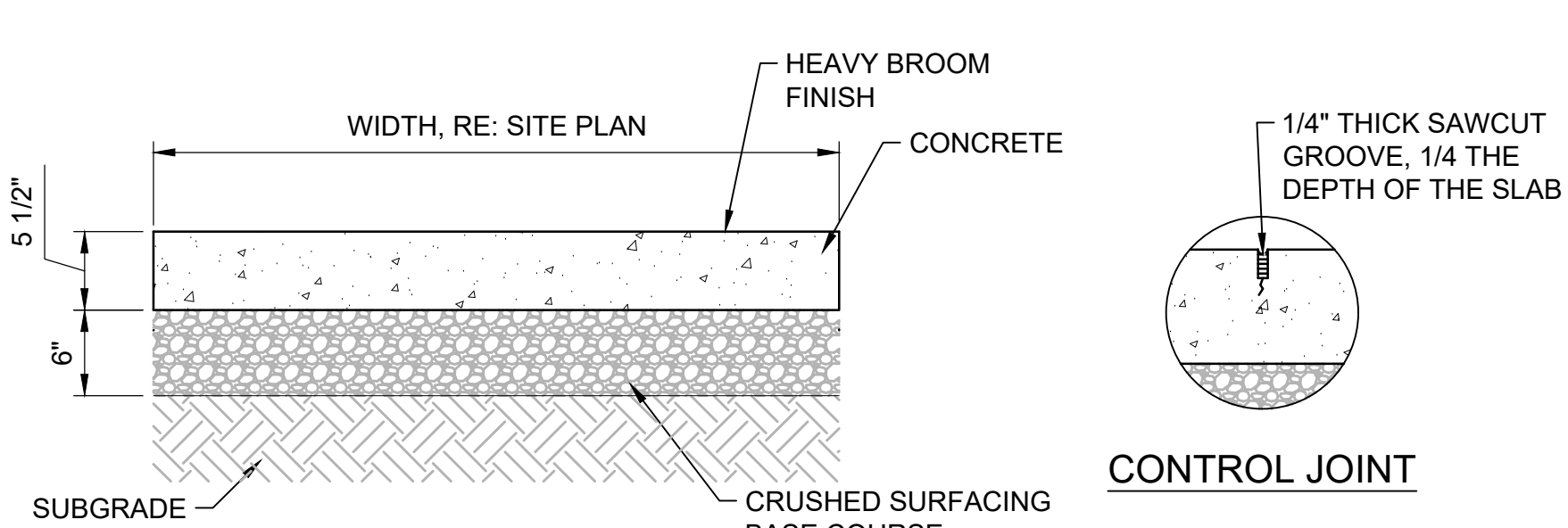
- NOTES:
- SEE SPECIFICATIONS FOR MATERIAL AND CONSTRUCTION REQUIREMENTS.
  - PREPARE SUBGRADE IN ACCORDANCE WITH SPECIFICATIONS.
  - PLACE EXPANSION JOINT MATERIAL ADJACENT TO STRUCTURES AND 60 FEET MAX. SPACING.
  - CONTINUOUS PLACEMENT PREFERRED, CONTROL JOINT INTERVALS AT 5 FEET MAX. SPACING.

**B1** TYPICAL PATHWAY SECTION 1  
N.T.S.



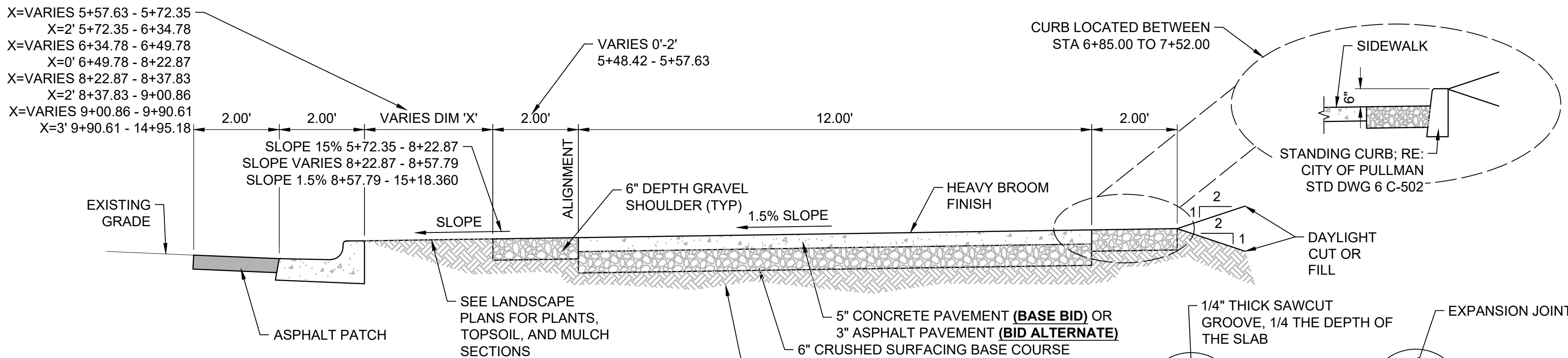
- NOTES:
- SEE SPECIFICATIONS FOR MATERIAL AND CONSTRUCTION REQUIREMENTS.
  - PREPARE SUBGRADE IN ACCORDANCE WITH SPECIFICATIONS.
  - PLACE EXPANSION JOINT MATERIAL ADJACENT TO STRUCTURES AND 60 FEET MAX. SPACING.
  - CONTINUOUS PLACEMENT PREFERRED, CONTROL JOINT INTERVALS AT 5 FEET MAX. SPACING.

**B3** TYPICAL PATHWAY SECTION 2  
N.T.S.



- NOTES:
- CONTINUOUS PLACEMENT PREFERRED, CONTROL JOINT INTERVALS AT 10 FEET MAX. SPACING.
  - SEE SPECIFICATIONS FOR MATERIALS, PLACEMENT & CONSTRUCTION REQUIREMENTS.
  - PREPARE SUBGRADE IN ACCORDANCE WITH SPECIFICATIONS.

**A1** CONCRETE DRIVEWAY SECTION  
N.T.S.



- NOTES:
- SEE SPECIFICATIONS FOR MATERIAL AND CONSTRUCTION REQUIREMENTS.
  - PREPARE SUBGRADE IN ACCORDANCE WITH SPECIFICATIONS.
  - PLACE EXPANSION JOINT MATERIAL ADJACENT TO STRUCTURES AND 60 FEET MAX. SPACING.
  - CONTINUOUS PLACEMENT PREFERRED, CONTROL JOINT INTERVALS AT 5 FEET MAX. SPACING.

**A2** TYPICAL CONCRETE PATHWAY SECTION (BASE BID)  
N.T.S.

DESIGN FIRM:



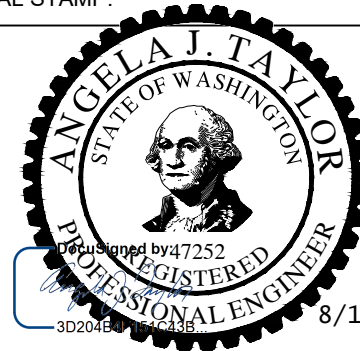
733 5th Street #A  
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Pullman, Wa. 99164-1150

**SIDEWALKS**

SHARED USE PATH ON SR270 TO STADIUM WAY

708D

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CAD DWG FILE: DETAILS.dwg

DESIGN BY: A. TAYLOR

DRAWN BY: I. CRANE

CHECKED BY: A. TAYLOR

PROJECT No. 9705-2018

FILE No. 708D-174

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SHEET TITLE

**DETAILS**

**C-501**

SHEET 15 OF 28 SHEETS

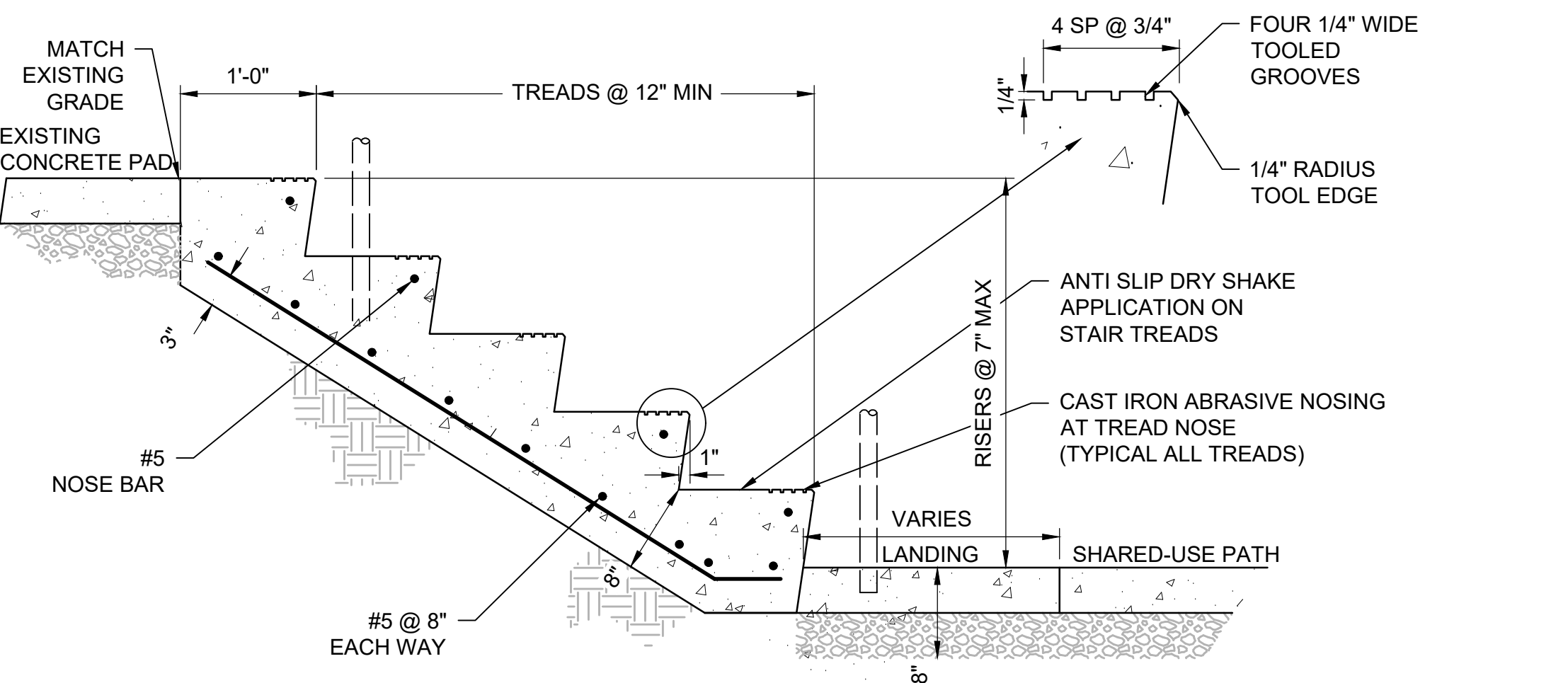




- 
- 1'-0"
- TOP STEP RISER
- 1 1/2" SCH 40 PIPE
- POWDER-COATED WSW  
TAVERN GREEN
- 3'-0"
- BOTTOM STEP NOSE
- 1'-0"
- 1 1/2" SCH 80 PIPE  
@ 6'-0" OC MAX

**B3** — HANDRAIL  
N.T.S.

- B1** PEDESTRIAN CURB RAMP - SECTIONS & NOTES  
N.T.S.



**A3** CONCRETE STAIRS  
1" = 1'-0"

---


$$1'' = 1'-0''$$

0      1/2'      1'      2'



**KELLER**  
ASSOCIATES

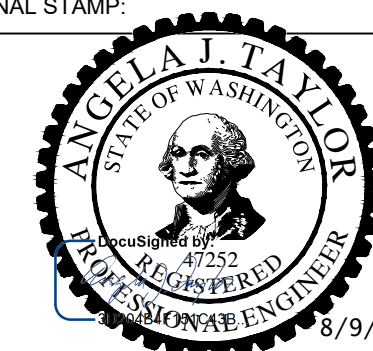
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## SIDEWALKS

SHARED USE PATH ON SR270 TO STADIUM  
WAY

708D

[illegible]

CAD DWG FILE: DETAILS2.dwg

DESIGN BY: A. TAYLOR

|                    |                       |
|--------------------|-----------------------|
| DRAWN BY: I. CRANE | CHECKED BY: A. TAYLOR |
|--------------------|-----------------------|

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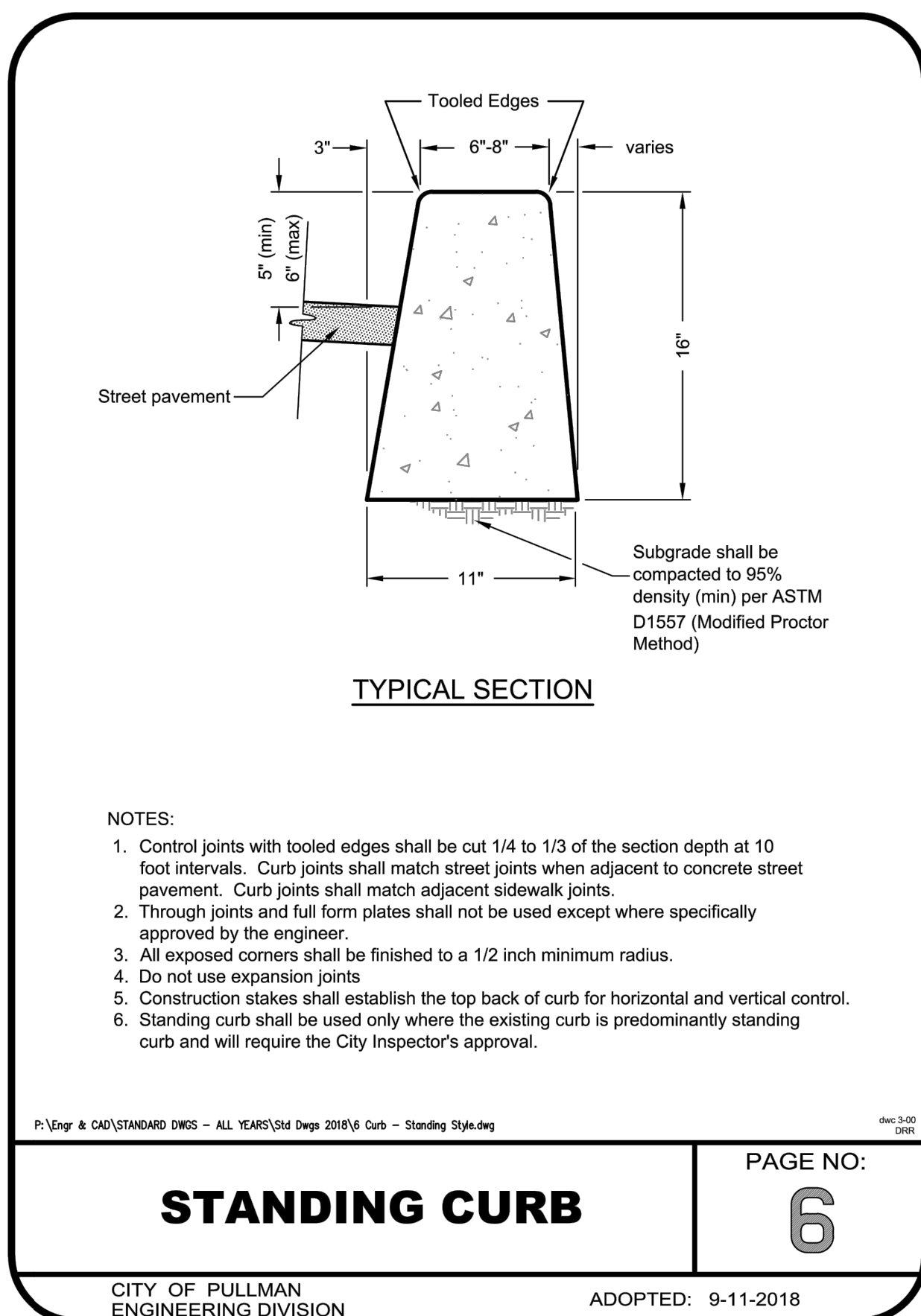
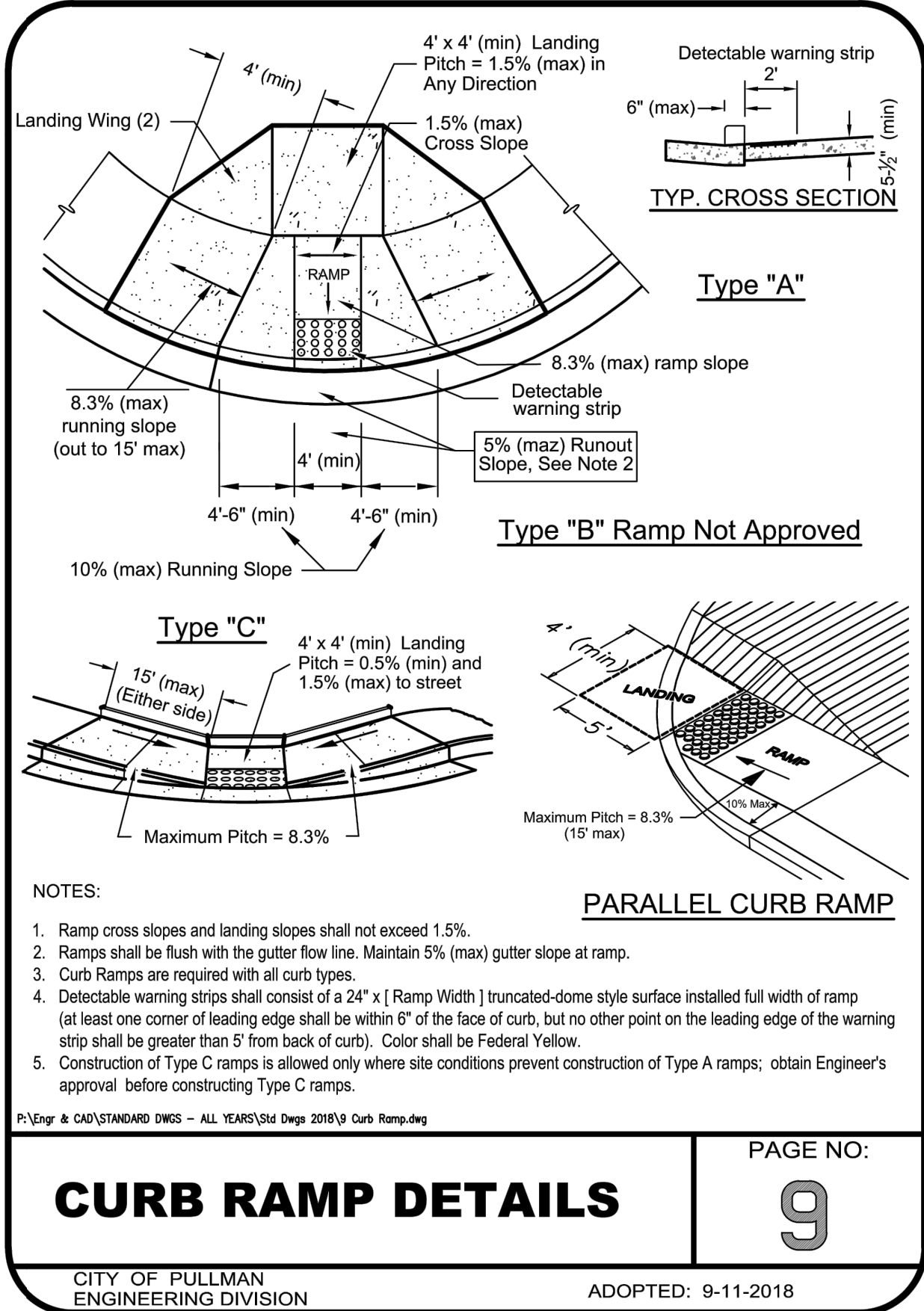
SHEET TITLE

## DETAILS

C-502

SHEET 16 OF 28 SHEET



[illegible]



GENERAL NOTES

- A. ALL UNDERGROUND UTILITIES ARE SHOWN IN APPROXIMATE LOCATIONS. VERIFY LOCATIONS PRIOR TO WORK IN THE AREA.
- B. SOME LIGHT POLES ARE IN THE VICINITY OF STORM DRAIN PIPING. VERIFY THAT POLE BASES ARE NOT INSTALLED ON TOP OF PIPING.
- C. RETAIN & PROTECT ALL EXISTING FEATURES, VEGETATION AND UTILITIES UNLESS NOTED OTHERWISE IN CIVIL PLANS.
- D. UTILITY TRENCH REQUIREMENT, RE: STANDARD UTILITY TRENCH & PIPE PLACEMENT, WSU DETAIL C 31 23 33.

KEYED NOTES

- 01 INSTALL WALKWAY LIGHT & POLE BASE  
  
LIGHT: LUMEC  
S55-35W32LED4K-T-GL-LE5-UNIV-  
SF0KSCZS311G46SM  
  
POLE:  
APR4F-12-B40-HB-IP-SCZS311G46SM
- 03 INSTALL 1" CONDUIT WITH (2) #8 CUT & (1) #8 GND (TYP)
- 04 ROUTE A 1" CONDUIT WITHIN TUNNEL TO MCCALISTER CONTROL PANEL; RE: A4/E-501

DESIGN FIRM:

**KELLER ASSOCIATES**

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www.bernardowills.com

PROVISIONAL STAMP:

**ADAM L. NEIWEIT**  
STATE OF WASHINGTON  
DocuSigned by:  
Adam Neiweit  
25064C04B25447  
1/3/2022

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Pullman, Wa. 99164-1150

SIDEWALKS

SHARED USE PATH ON SR270 TO STADIUM WAY

708D

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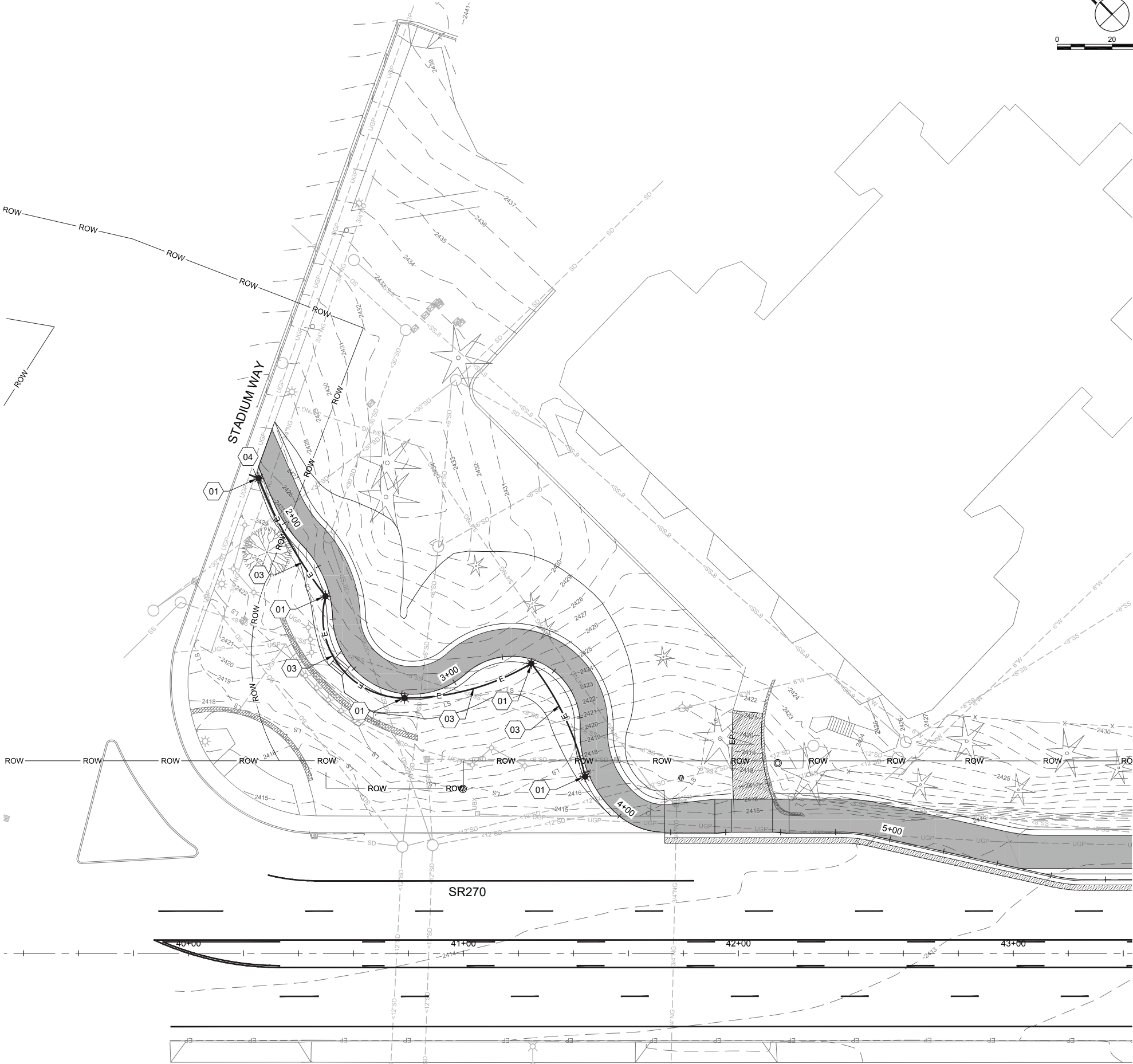
CAD DWG FILE: LIGHT PLAN.dwg  
DESIGN BY: A. TAYLOR  
DRAWN BY: I. CRANE  
PROJECT No. 9705-2018  
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SHEET TITLE

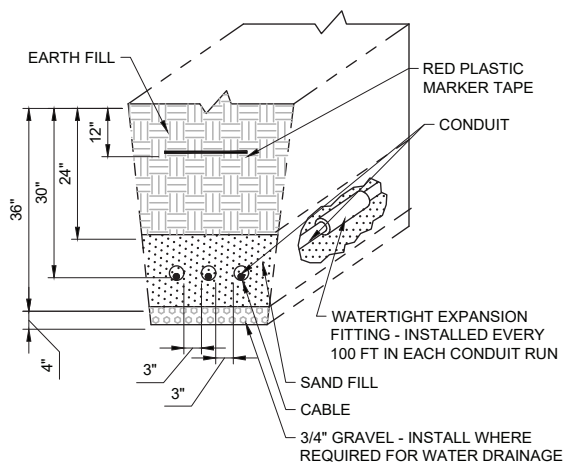
**LIGHTING PLAN**

**E-101**

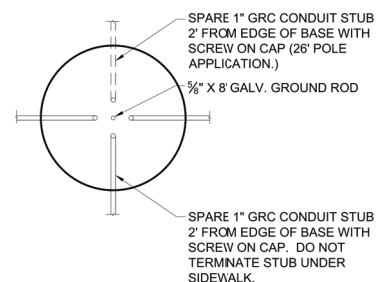
SHEET 18 OF 28 SHEETS





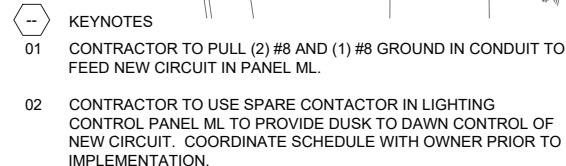


### C3 INSTALLATION OF UNDERGROUND CONDUITS



1. PRECAST CONCRETE POLE BASES ARE PREFERRED.
2. CONCRETE STRENGTH TO BE AT LEAST 4000 PSI.
3. CONCRETE FINISH F3 SMOOTH RUBBED ALL SURFACES ABOVE GRADE AND TO 6" BELOW GRADE.
4. PROVIDE 6" SPACE BETWEEN POLE BASE AND SIDEWALK.

|                   |                 |           |
|-------------------|-----------------|-----------|
| DETAIL NUMBER     |                 | TYPE      |
| <b>E 26 56 00</b> |                 | <b>02</b> |
| DATE: 04-25-2017  | REVISION NO.: 0 | 1 OF 1    |



**A4** SITE DETAIL - MCALLISTER HALL  
N.T.S.

708D

E-501

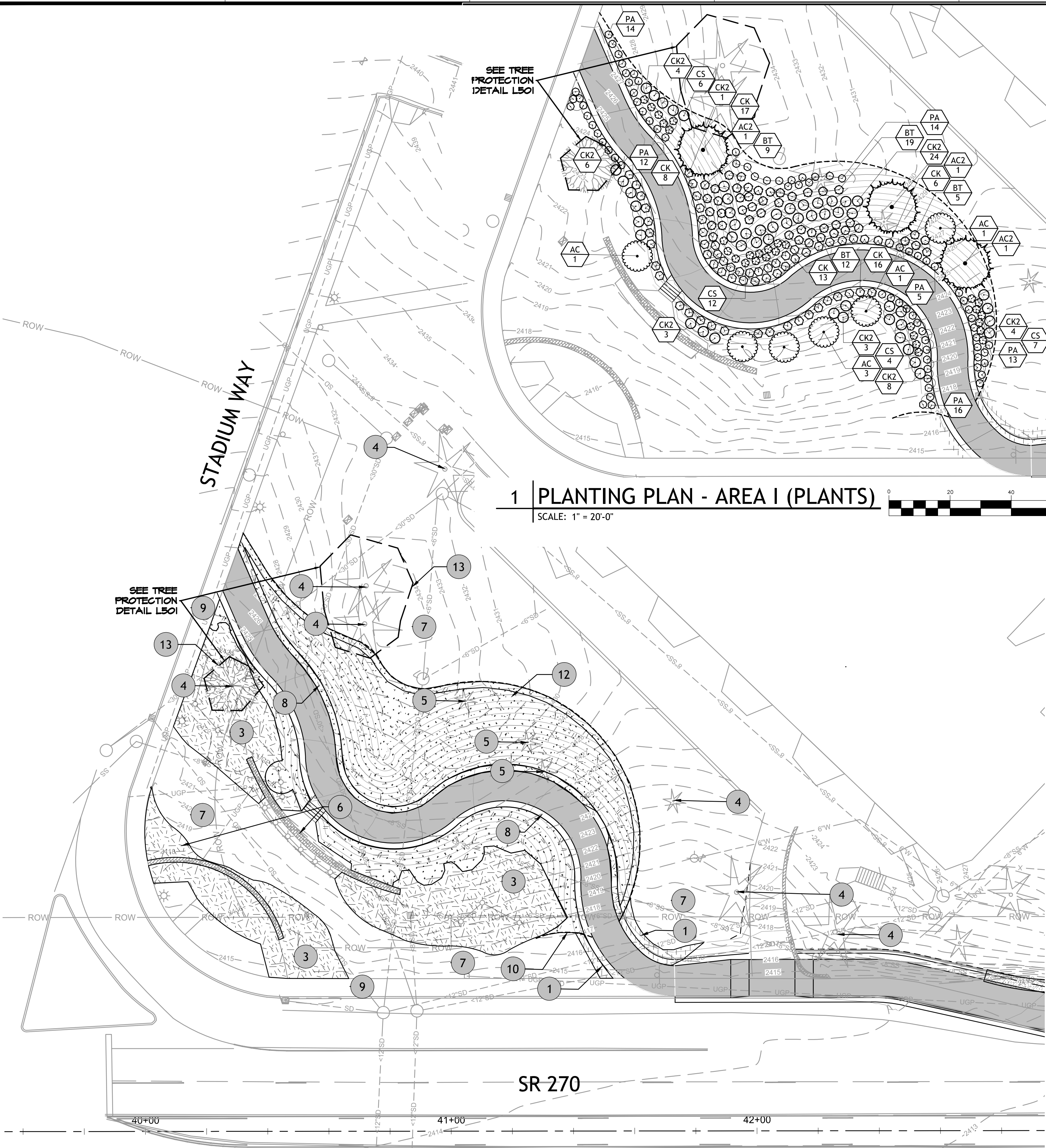
SHEET 19 OF 28 SHEETS



FILE: P:\2021\21-06-085 WSU SR270 Shared-Use\Drawings\21-06-085 PLANTING & IRRIGATION L-101-201.dwg PLOT DATE: April 15, 2016, 11:00 AM ORIGINAL PAPER SIZE: 22" x 34"

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1 2 3 4 5 6 7



RE: L-104 DETAIL 1  
MATCHLINE

### KEY NOTES

| SYMBOL | DESCRIPTION                                                                           |
|--------|---------------------------------------------------------------------------------------|
| 1      | SOD REPAIR. LAY SOD TO MATCH EXISTING SOD FLUSH AND FLUSH WITH GRAVEL TRAIL SHOULDER. |
| 2      | DRYLAND, EROSION CONTROL HYDROSEED.                                                   |
| 3      | EXISTING ORNAMENTAL LANDSCAPE AREA TO REMAIN. PRESERVE AND PROTECT.                   |
| 4      | EXISTING TREE TO REMAIN. PRESERVE AND PROTECT.                                        |
| 5      | EXISTING TREE TO BE REMOVED.                                                          |
| 6      | EXISTING SIGN. PRESERVE AND PROTECT.                                                  |
| 7      | EXISTING TURF TO REMAIN. PRESERVE AND PROTECT.                                        |
| 8      | TRAIL GRAVEL SHOULDER. SEE CIVIL DRAWINGS.                                            |
| 9      | EXISTING SIDEWALK TO REMAIN. PRESERVE AND PROTECT.                                    |
| 10     | EXTEND SHOVEL CUT LANDSCAPE EDGE TO TRAIL.                                            |
| 11     | DRIPLINE. SEE IRRIGATION LEGENED L-201.                                               |
| 12     | PROPOSED CONTOURS                                                                     |
| 13     | TREE PROTECTION FENCE                                                                 |

### GENERAL NOTES

- REFER TO SHEET L-201 FOR PLANTING & IRRIGATION GENERAL NOTES & LEGENDS.
- REFER TO SHEET L-501-502 FOR PLANTING & IRRIGATION DETAILS.

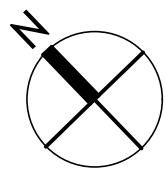
### PLANT LEGEND

| TREES | CODE | BOTANICAL / COMMON NAME                                                        | 2022-06-15 12:41<br>SIZE |
|-------|------|--------------------------------------------------------------------------------|--------------------------|
| AC2   | AC2  | ABIES CONCOLOR / WHITE FIR                                                     | 8' HT.                   |
| AC    | AC   | AMELANCHIER X GRANDIFLORA 'AUTUMN BRILLIANCE' / AUTUMN BRILLIANCE SERVICEBERRY | 10 GAL.                  |
| BT    | BT   | BERBERIS THUNBERGII 'CRIMSON PYGMY' / CRIMSON PYGMY JAPANESE BARBERRY          | 5 GAL.                   |
| CK2   | CK2  | CALAMAGROSTIS X ACUTIFLORA 'KARL FOERSTER' / KARL FOERSTER FEATHER REED GRASS  | 2 GAL.                   |
| CS    | CS   | COREOPSIS VERTICILLATA 'TNCORSR' TM / SUNSTAR ROSE TICKSEED                    | 1 GAL.                   |
| CK    | CK   | CORNUS SERICEA 'KELSEY' / KELSEY'S DWARF RED TWIG DOGWOOD                      | 2 GAL.                   |
| EB    | EB   | ELYMUS ARENARIUS BLUE DUNE / BLUE DUNE LYME GRASS                              | 2 GAL.                   |
| PA    | PA   | PENNISETUM ALOPECUROIDES / FOUNTAIN GRASS                                      | 2 GAL.                   |

| SHRUBS | CODE | BOTANICAL / COMMON NAME                                                       | SIZE   |
|--------|------|-------------------------------------------------------------------------------|--------|
| BT     | BT   | BERBERIS THUNBERGII 'CRIMSON PYGMY' / CRIMSON PYGMY JAPANESE BARBERRY         | 5 GAL. |
| CK2    | CK2  | CALAMAGROSTIS X ACUTIFLORA 'KARL FOERSTER' / KARL FOERSTER FEATHER REED GRASS | 2 GAL. |
| CS     | CS   | COREOPSIS VERTICILLATA 'TNCORSR' TM / SUNSTAR ROSE TICKSEED                   | 1 GAL. |
| CK     | CK   | CORNUS SERICEA 'KELSEY' / KELSEY'S DWARF RED TWIG DOGWOOD                     | 2 GAL. |
| EB     | EB   | ELYMUS ARENARIUS BLUE DUNE / BLUE DUNE LYME GRASS                             | 2 GAL. |
| PA     | PA   | PENNISETUM ALOPECUROIDES / FOUNTAIN GRASS                                     | 2 GAL. |

### 2 PLANTING PLAN - AREA I - MATERIAL LOCATION

SCALE: 1" = 20'-0"



DESIGN FIRM:



733 5th Street #A  
Clarkston, WA 99403  
(509) 295-6095

CONSULTANTS:

B W A BERNARDO WILLS  
ARCHITECTS PC

153 South Jefferson Street  
Spokane, WA 99201  
509 838.4511 | fax 509 838.4605  
www.bernardowills.com

PROVISIONAL STAMP:



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Facilities Services PH 509-335-5571  
2425 E. Grimes Way FAX 509-335-9304  
Pullman, Wa. 99164-1150

### 708D SIDEWALKS

SHARED USE PATH ON SR270 TO  
STADIUM WAY

X

MARK DATE DESCRIPTION

CAD DWG FILE: CAD

DESIGN BY:

DRAWN BY: JC

CHECKED BY: BLR

PROJECT No. 9705-2018

FILE No. 708D-174

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SHEET TITLE

PLANTING PLAN  
AREA I

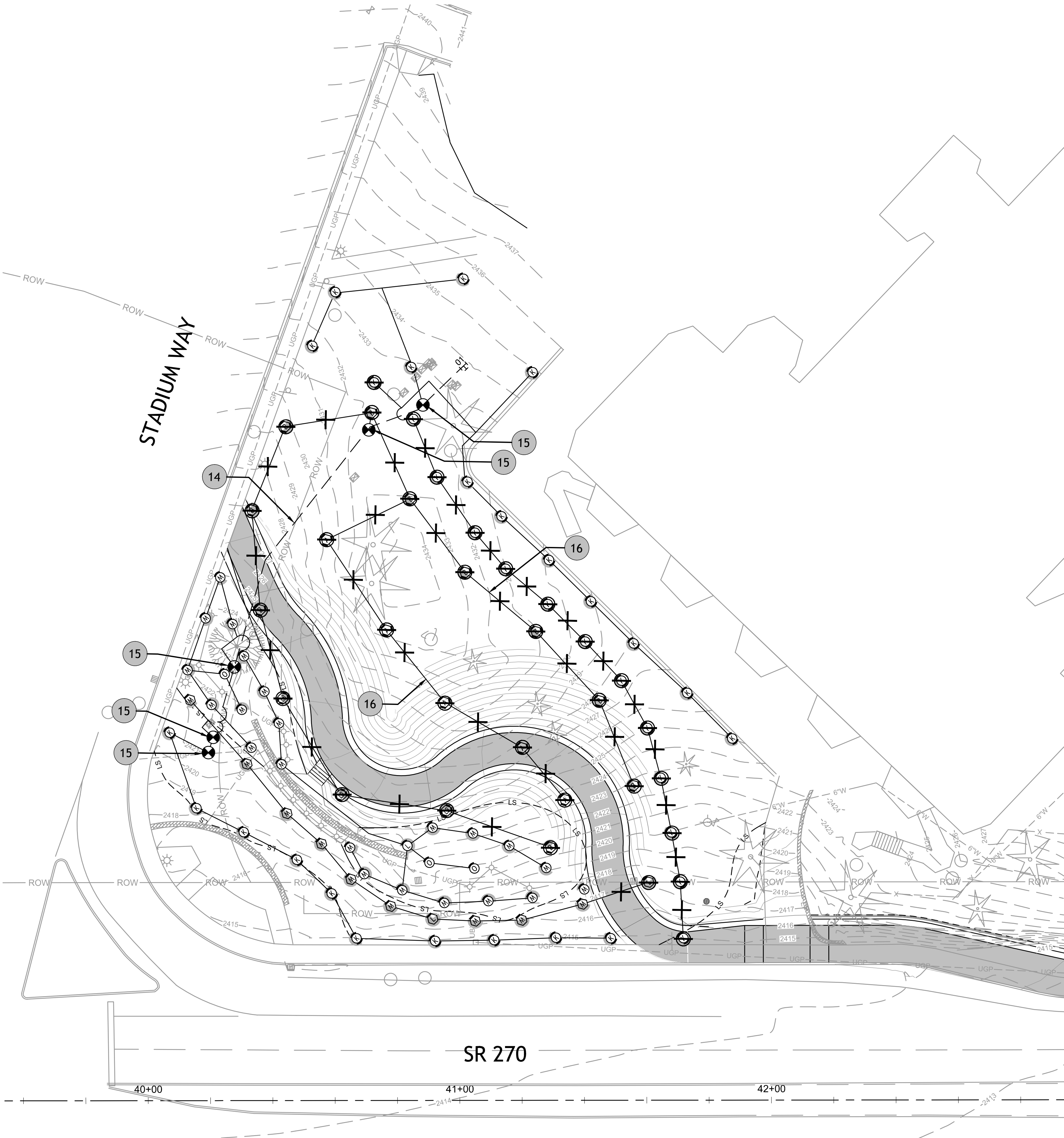
L-101

SHEET 20 OF 28 SHEETS



FILE: P:\2021\21-06-085 WSU SR270 Shared-Use\Drawings\21-06-085 IRRIGATION Demo.dwg PLOT DATE: April 15, 2016, 11:00 AM ORIGINAL PAPER SIZE: 22" x 34"

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KEY NOTES

- 14 IRRIGATION MAINLINE TO REMAIN.
- 15 EXISTING IRRIGATION VALVE TO REAMIN.
- 16 EXISTING IRRIGATION LATERAL LINE FOR DEMOLITION.

LEGEND

| SYMBOL | DESCRIPTION                                       |
|--------|---------------------------------------------------|
| X      | REMOVE OR ABANDON IN PLACE EXISTING LATERAL LINE. |
| ⊘      | REMOVE EXISTING SPRINKLER HEAD.                   |

GENERAL NOTES

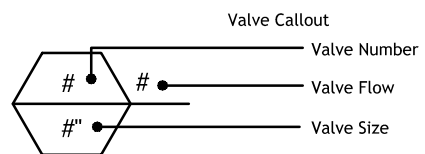
- IRRIGATION DEMOLITION IS BASED ON MOST AVAILABLE AS BUILT INFORMATION.
- IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY THE LOCATION OF ALL IRRIGATION EQUIPMENT AND PIPING PRIOR TO MODIFICATIONS.
- CONTRACTOR SHALL WALK EXISTING IRRIGATION SYSTEM WITH WSU MAINTENANCE STAFF PRIOR TO ANY MODIFICATIONS.

IRRIGATION LEGEND

| SYMBOL | MANUFACTURER/MODEL/DESCRIPTION                                                                                                                                                                                             | PSI |
|--------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|
| ⊘      | HUNTER MP1000 PROS-04-PRS40-CV TURF ROTATOR, 4" POP-UP WITH CHECK VALVE, PRESSURE REGULATED TO 40 PSI, MP ROTATOR NOZZLE ON PRS40 BODY. M=MAROON ADJ ARC 90 TO 210, L=LIGHT BLUE 210 TO 270 ARC, O=OLIVE 360 ARC.          | 40  |
| ⊘      | HUNTER MP3000 PROS-04-PRS40-CV TURF ROTATOR, 4" POP-UP WITH FACTORY INSTALLED CHECK VALVE, PRESSURE REGULATED TO 40 PSI, MP ROTATOR NOZZLE ON PRS40 BODY. B=BLUE ADJ ARC 90-210, Y=YELLOW ADJ ARC 210-270, A=GRAY 360 ARC. | 40  |
| ⊘      | HUNTER MP3500 PROS-04-PRS40-CV TURF ROTATOR, 4" POP-UP WITH FACTORY INSTALLED CHECK VALVE, PRESSURE REGULATED TO 40 PSI, MP ROTATOR NOZZLE ON PRS40 BODY. LB=LIGHT BROWN ADJUSTABLE ARC, 90-210.                           | 40  |
| ⊘      | HUNTER MP1000 PROS-00-PRS40 SHRUB ROTATOR, FIXED-RISER, PRESSURE REGULATED TO 40 PSI, MP ROTATOR NOZZLE M=MAROON ADJ ARC 90 TO 210, L=LIGHT BLUE 210 TO 270 ARC, O=OLIVE 360 ARC.                                          | 40  |
| ⊘      | UNKNOWN HEAD SIZE. EVALUATE IN THE FIELD FOR ADJUSTMENT OR REMOVAL.                                                                                                                                                        | 40  |

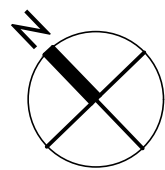
| SYMBOL | MANUFACTURER/MODEL/DESCRIPTION                                                                                                                                                                                                                                         |
|--------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ■      | RAIN BIRD XCZLF-100-PRF 1" LOW FLOW, 0.2-10 GPM, WITH 1" LOW FLOW VALVE VALVE AND 1" PRESSURE REGULATING RBY FILTER AND 40PSI PRESSURE REGULATOR.                                                                                                                      |
| SYMBOL | MANUFACTURER/MODEL/DESCRIPTION                                                                                                                                                                                                                                         |
| ●      | RAIN BIRD PESB-PRS-D 1" 1", 1-1/2", 2" PLASTIC INDUSTRIAL VALVES. LOW FLOW OPERATING CAPABILITY, GLOBE CONFIGURATION. WITH PRESSURE REGULATING MODULE, AND SCRUBBER TECHNOLOGY FOR RELIABLE PERFORMANCE IN DIRTY WATER IRRIGATION APPLICATIONS. POINT OF CONNECTION 3" |

- IRRIGATION LATERAL LINE: PVC SCHEDULE 40
- IRRIGATION LATERAL LINE: PVC SCHEDULE 40 1"
- IRRIGATION LATERAL LINE: PVC SCHEDULE 40 1 1/2"
- IRRIGATION MAINLINE: PVC SCHEDULE 40
- PIPE SLEEVE: PVC CLASS 200 SDR 21



1 IRRIGATION DEMOLITION - AREA I

SCALE: 1" = 20'-0"



UNDERGROUND SERVICE ALERT  
ONE-CALL NUMBER  
811 OR  
(800)342-1585  
CALL TWO BUSINESS DAYS BEFORE YOU DIG

DESIGN FIRM:



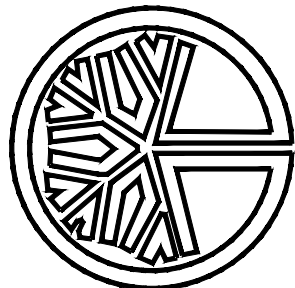
733 5th Street #A  
Clarkston, WA 99403  
(509) 295-6095

CONSULTANTS:

B W A BERNARDO WILLS  
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153 South Jefferson Street  
Spokane, WA 99201  
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LANDSCAPE ARCHITECT  
DELL R. MATCH  
CERTIFICATE NO. 162



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2425 E. Grimes Way  
Pullman, Wa. 99164-1150

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

708D SIDEWALKS

SHARED USE PATH ON SR270 TO  
STADIUM WAY

X

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CAD DWG FILE: CAD

DESIGN BY:

DRAWN BY: JC

PROJECT No. 9705-2018

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CHECKED BY: BLR

FILE No. 708D-174

SHEET TITLE

IRRIGATION PLAN  
AREA I  
(DEMO)

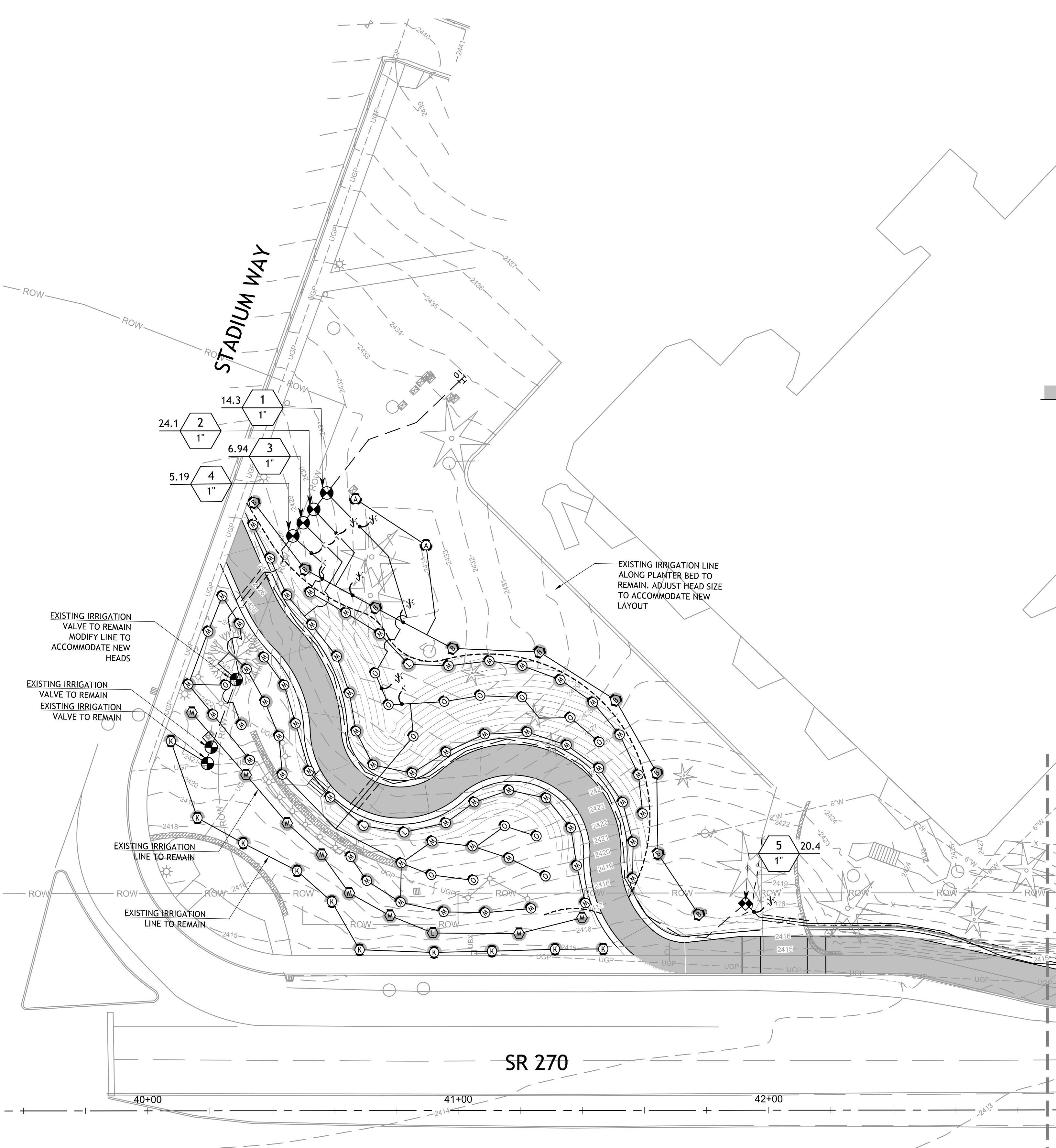
L-102

SHEET 21 OF 28 SHEETS



FILE: P:\2021\21-06-085 WSU SR270 Shared-Use\Drawings\21-06-085 PLANTING & IRRIGATION L-101-201.dwg PLOT DATE: April 15, 2016, 11:00 AM ORIGINAL PAPER SIZE: 22" x 34"

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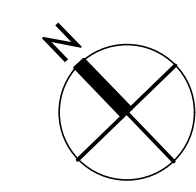
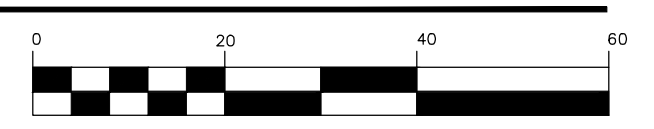


| KEY NOTES |                                                                                         |          |
|-----------|-----------------------------------------------------------------------------------------|----------|
| SYMBOL    | DESCRIPTION                                                                             | QTY      |
|           | 1 SOD REPAIR. LAY SOD TO MATCH EXISTING SOD FLUSH AND FLUSH WITH GRAVEL TRAIL SHOULDER. | 187 SF   |
|           | 2 DRYLAND, EROSION CONTROL HYDROSEED.                                                   | 4,414 SF |
|           | 3 EXISTING ORNAMENTAL LANDSCAPE AREA TO REMAIN. PRESERVE AND PROTECT.                   | 3,961 SF |
|           | 4 EXISTING TREE TO REMAIN. PRESERVE AND PROTECT.                                        |          |
|           | 5 EXISTING TREE TO BE REMOVED.                                                          |          |
|           | 6 EXISTING SIGN. PRESERVE AND PROTECT.                                                  |          |
|           | 7 EXISTING TURF TO REMAIN. PRESERVE AND PROTECT.                                        |          |
|           | 8 TRAIL GRAVEL SHOULDER. SEE CIVIL DRAWINGS.                                            |          |
|           | 9 EXISTING SIDEWALK TO REMAIN. PRESERVE AND PROTECT.                                    |          |
|           | 10 EXTEND SHOVEL CUT LANDSCAPE EDGE TO TRAIL.                                           |          |
|           | 11 DRIPLINE. SEE IRRIGATION LEGENED L-201.                                              |          |
|           | 12 PROPOSED CONTOURS                                                                    |          |
|           | 13 TREE PROTECTION FENCE                                                                |          |

| IRRIGATION LEGEND |                                                                                                                                                                                                                                                                                          |     |
|-------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|
| SYMBOL            | MANUFACTURER/MODEL/DESCRIPTION                                                                                                                                                                                                                                                           | PSI |
|                   | HUNTER MP3000 PROS-04-PRS40-CV TURF ROTATOR, 4" POP-UP WITH FACTORY INSTALLED CHECK VALVE, PRESSURE REGULATED TO 40 PSI, MP ROTATOR NOZZLE ON PRS40 BODY. B=BLUE ADJ ARC 90-210, Y=YELLOW ADJ ARC 210-270, A=GRAY 360 ARC.                                                               | 40  |
|                   | HUNTER MP1000 PROS-00-PRS40 SHRUB ROTATOR, FIXED-RISER, PRESSURE REGULATED TO 40 PSI, MP ROTATOR NOZZLE M=MAROON ADJ ARC 90 TO 210, L=LIGHT BLUE 210 TO 270 ARC, O=OLIVE 360 ARC.                                                                                                        | 40  |
| SYMBOL            | MANUFACTURER/MODEL/DESCRIPTION                                                                                                                                                                                                                                                           |     |
|                   | RAIN BIRD XCZLF-100-PRF 1" LOW FLOW, 0.2-10 GPM, WITH 1" LOW FLOW VALVE VALVE AND 1" PRESSURE REGULATING RBY FILTER AND 40PSI PRESSURE REGULATOR.                                                                                                                                        |     |
|                   | AREA TO RECEIVE DRIPLINE RAIN BIRD XFS-CV-06-18-NP XFS-CV NON POTABLE ON-SURFACE LANDSCAPE DRIPLINE WITH A HEAVY-DUTY 4.3 PSI CHECK VALVE. 0.6 GPH EMITTERS AT 18" O.C. DRIPLINE LATERALS SPACED AT 18" APART, W/ EMITTERS OFFSET FOR TRIANGULAR PATTERN. SPECIFY XF INSERT FITTINGS.    |     |
| SYMBOL            | MANUFACTURER/MODEL/DESCRIPTION                                                                                                                                                                                                                                                           |     |
|                   | RAIN BIRD PESB-PRS-D 1" 1", 1-1/2", 2" PLASTIC INDUSTRIAL VALVES. LOW FLOW OPERATING CAPABILITY, GLOBE CONFIGURATION. WITH PRESSURE REGULATING MODULE, AND SCRUBBER TECHNOLOGY FOR RELIABLE PERFORMANCE IN DIRTY WATER IRRIGATION APPLICATIONS. POINT OF CONNECTION 3". SEE CIVIL SHEET. |     |
|                   | IRRIGATION LATERAL LINE: PVC SCHEDULE 40                                                                                                                                                                                                                                                 |     |
|                   | IRRIGATION LATERAL LINE: PVC SCHEDULE 40 1"                                                                                                                                                                                                                                              |     |
|                   | IRRIGATION LATERAL LINE: PVC SCHEDULE 40 1 1/2"                                                                                                                                                                                                                                          |     |
|                   | IRRIGATION MAINLINE: PVC SCHEDULE 40                                                                                                                                                                                                                                                     |     |
|                   | PIPE SLEEVE: PVC CLASS 200 SDR 21                                                                                                                                                                                                                                                        |     |
|                   | Valve Callout<br>Valve Number<br>Valve Flow<br>Valve Size                                                                                                                                                                                                                                |     |

- GENERAL NOTES**
- REFER TO SHEET L-201 FOR PLANTING & IRRIGATION GENERAL NOTES & LEGENDS.
  - REFER TO SHEET L-501-502 FOR PLANTING & IRRIGATION DETAILS.
  - REFER TO SHEET L-102 FOR IRRIGATION DEMO

1 IRRIGATION PLAN - AREA I  
SCALE: 1" = 20'-0"



UNDERGROUND SERVICE ALERT  
ONE-CALL NUMBER  
811 OR  
(800)342-1585  
CALL TWO BUSINESS DAYS BEFORE YOU DIG

DESIGN FIRM:

**KELLER ASSOCIATES**

733 5th Street #A  
Clarkston, WA 99403  
(509) 295-6095

CONSULTANTS:

**B W A BERNARDO WILLS**  
ARCHITECTS PC

153 South Jefferson Street  
Spokane, WA 99201  
509 838.4511 | fax 509 838.4605  
www.bernardowills.com

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Facilities Services PH 509-335-5571  
2425 E. Grimes Way FAX 509-335-9304  
Pullman, Wa. 99164-1150

708D SIDEWALKS

SHARED USE PATH ON SR270 TO STADIUM WAY

X

| MARK | DATE | DESCRIPTION |
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CAD DWG FILE: CAD

DESIGN BY:

DRAWN BY: JC CHECKED BY: BLR

PROJECT No. 9705-2018 FILE No. 708D-174

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SHEET TITLE

**IRRIGATION PLAN AREA I**

**L-103**

SHEET 22 OF 28 SHEETS





## GENERAL NOTES

1. REFER TO SHEET L-201 FOR PLANTING & IRRIGATION GENERAL NOTES & LEGENDS.
2. REFER TO SHEET L-501-502 FOR PLANTING & IRRIGATION DETAILS.
3. REFER TO SHEET L-103 FOR IRRIGATION LEGEND

EXISTING TURF TO REMAIN. PRESERVE AND PROTECT.

TRAIL GRAVEL SHOULDER. SEE CIVIL DRAWINGS.

EXISTING SIDEWALK TO REMAIN. PRESERVE AND PROTECT.

EXTEND SHOVEL CUT LANDSCAPE EDGE TO TRAIL.

DRIPLINE. SEE IRRIGATION LEGENED L-201.

PROPOSED CONTOURS

TREE PROTECTION FENCE

DESIGN FIRM:



**KELLER**  
ASSOCIATES

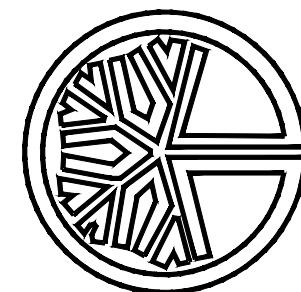
733 5th Street #A  
Clarkston, WA 99403  
(509) 295-6095

CONSULTANTS:

B W A BERNARDO | WILLS  
ARCHITECTS PC

153 South Jefferson Street  
Spokane, WA 99201  
509 838.4511 | fax 509 838.4605  
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PROVISIONAL STAMP:



STATE OF  
WASHINGTON  
REGISTERED  
LANDSCAPE ARCHITECT  
*[Signature]*  
DELL R. HATCH  
CERTIFICATE NO. 1162

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Facilities Services PH 509-335-5571  
2425 E. Grimes Way FAX 509-335-9304  
Pullman, Wa. 99164-1150

## 708D SIDEWALKS

SHARED USE PATH ON SR270 TO  
STADIUM WAY

x

| MARK | DATE | DESCRIPTION |
|------|------|-------------|

CAD DWG FILE: CAD

DESIGN BY:

DRAWN BY: JC

|                 |
|-----------------|
| CHECKED BY: BLR |
|-----------------|

PROJECT No. 9705-2018

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SHEET TITLE

## PLANTING & IRRIGATION PLAN AREA II

**L-104**

SHEET 23 OF 28 SHEETS

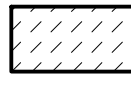
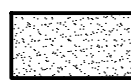




FILE: P:\2021\21-06-085 WSU SR270 Shared-Use\Drawings\21-06-085 PLANTING & IRRIGATION\L-101+201.dwg PLOT DATE: April 15, 2016, 11:00 AM ORIGINAL PAPER SIZE: 22" x 34"

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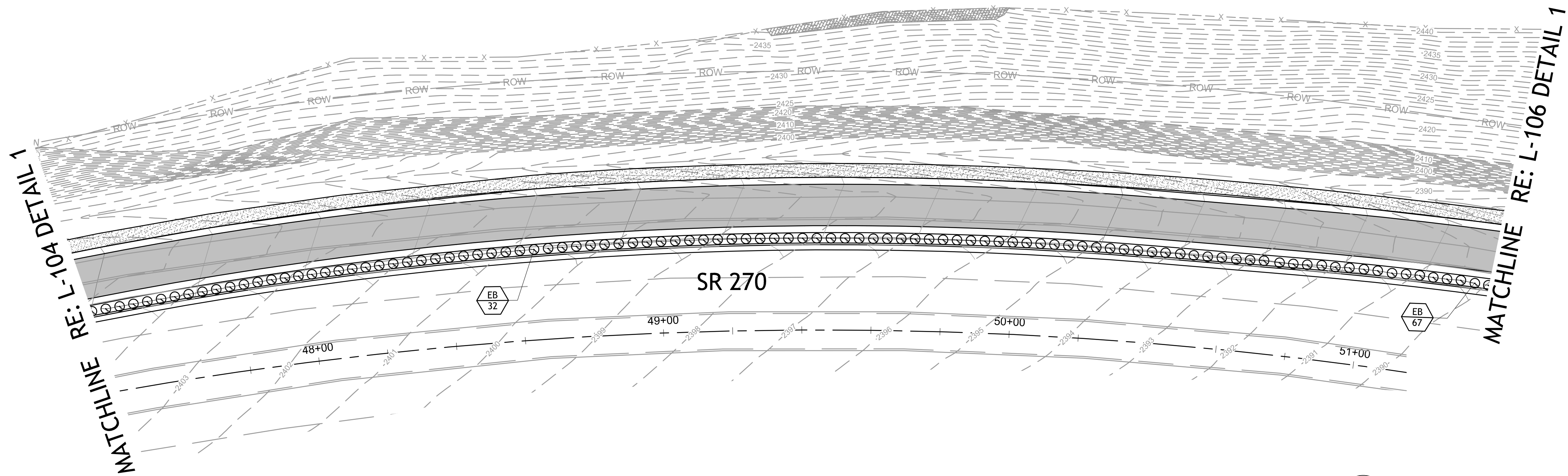
## KEY NOTES

| SYMBOL                                                                            | DESCRIPTION                                                                             |
|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------|
|  | 1 SOD REPAIR. LAY SOD TO MATCH EXISTING SOD FLUSH AND FLUSH WITH GRAVEL TRAIL SHOULDER. |
|  | 2 DRYLAND, EROSION CONTROL HYDROSEED.                                                   |
|  | 3 EXISTING ORNAMENTAL LANDSCAPE AREA TO REMAIN. PRESERVE AND PROTECT.                   |
|  | 4 EXISTING TREE TO REMAIN. PRESERVE AND PROTECT.                                        |
|  | 5 EXISTING TREE TO BE REMOVED.                                                          |
|  | 6 EXISTING SIGN. PRESERVE AND PROTECT.                                                  |

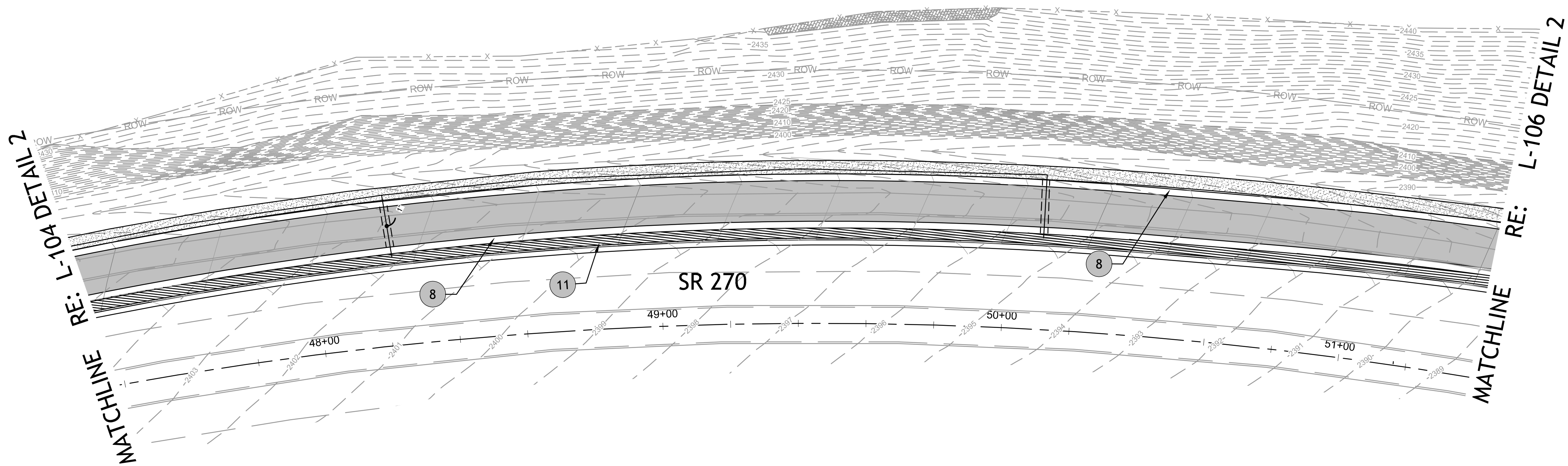
|    |                                                    |
|----|----------------------------------------------------|
| 7  | EXISTING TURF TO REMAIN. PRESERVE AND PROTECT.     |
| 8  | TRAIL GRAVEL SHOULDER. SEE CIVIL DRAWINGS.         |
| 9  | EXISTING SIDEWALK TO REMAIN. PRESERVE AND PROTECT. |
| 10 | EXTEND SHOVEL CUT LANDSCAPE EDGE TO TRAIL.         |
| 11 | DRIPLINE. SEE IRRIGATION LEGENED L-201.            |
| 12 | PROPOSED CONTOURS                                  |
| 13 | TREE PROTECTION FENCE                              |

## GENERAL NOTES

1. REFER TO SHEET L-201 FOR PLANTING & IRRIGATION GENERAL NOTES & LEGENDS.
2. REFER TO SHEET L-501-503 FOR PLANTING & IRRIGATION DETAILS.



1 PLANTING PLAN - AREA III  
SCALE: 1" = 20'-0"



2 IRRIGATION PLAN - AREA III  
SCALE: 1" = 20'-0"



DESIGN FIRM:



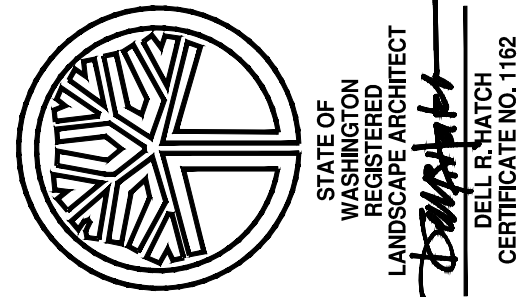
733 5th Street #A  
Clarkston, WA 99403  
(509) 295-6095

CONSULTANTS:

**B W A** BERNARDO | WILLS  
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2425 E. Grimes Way FAX 509-335-9304  
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## 708D SIDEWALKS

SHARED USE PATH ON SR270 TO  
STADIUM WAY

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| CAD DWG FILE: CAD                      |                   |
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SHEET TITLE

## PLANTING & IRRIGATION PLAN AREA III

## L-105

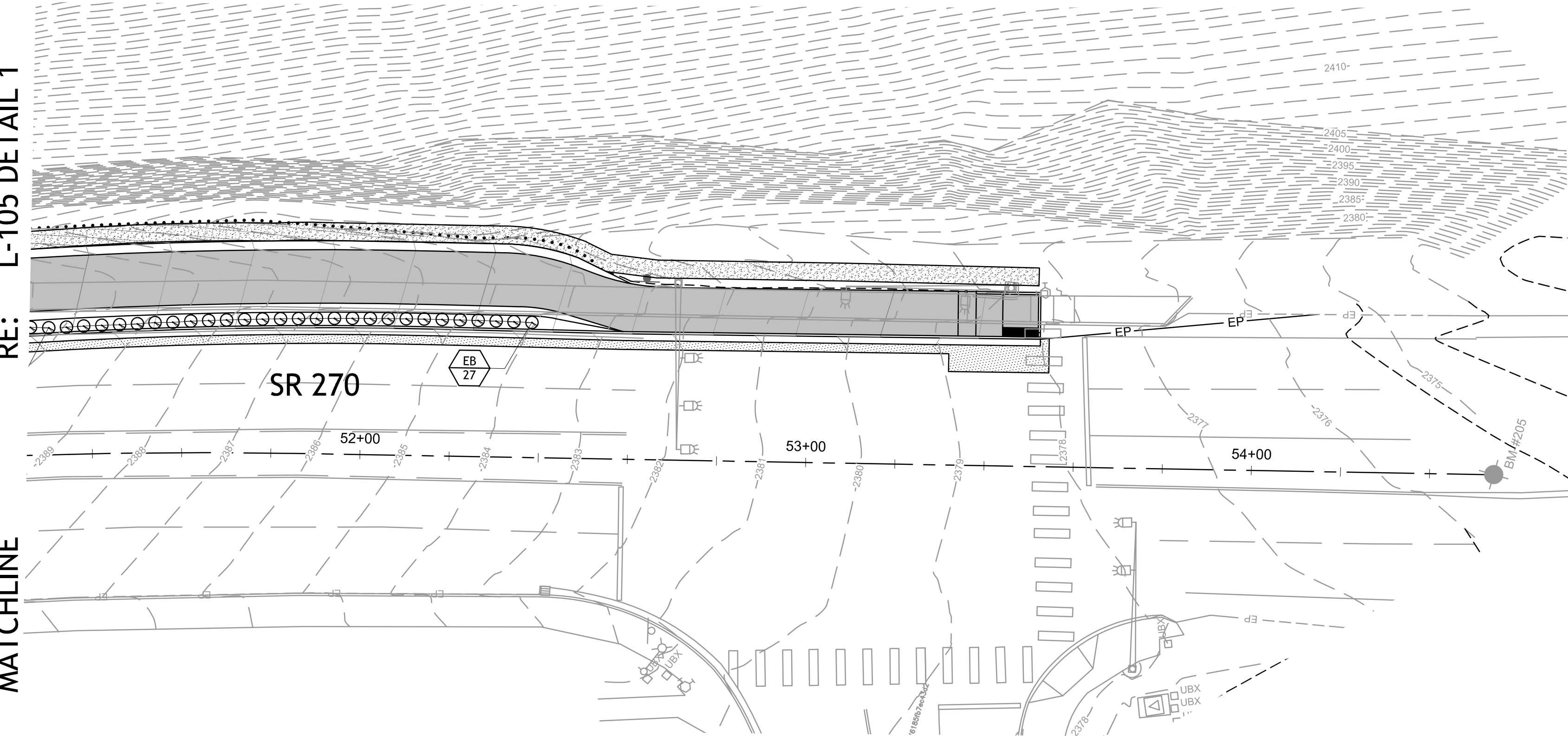
SHEET 24 OF 28 SHEETS



FILE: P:\2021\21-06-085 WSU SR270 Shared-Use\Drawings\21-06-085 PLANTING & IRRIGATION L-101+201.dwg PLOT DATE: April 15, 2016, 11:00 AM ORIGINAL PAPER SIZE: 22" x 34"

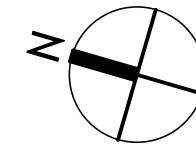
RE: L-105 DETAIL 1

MATCHLINE



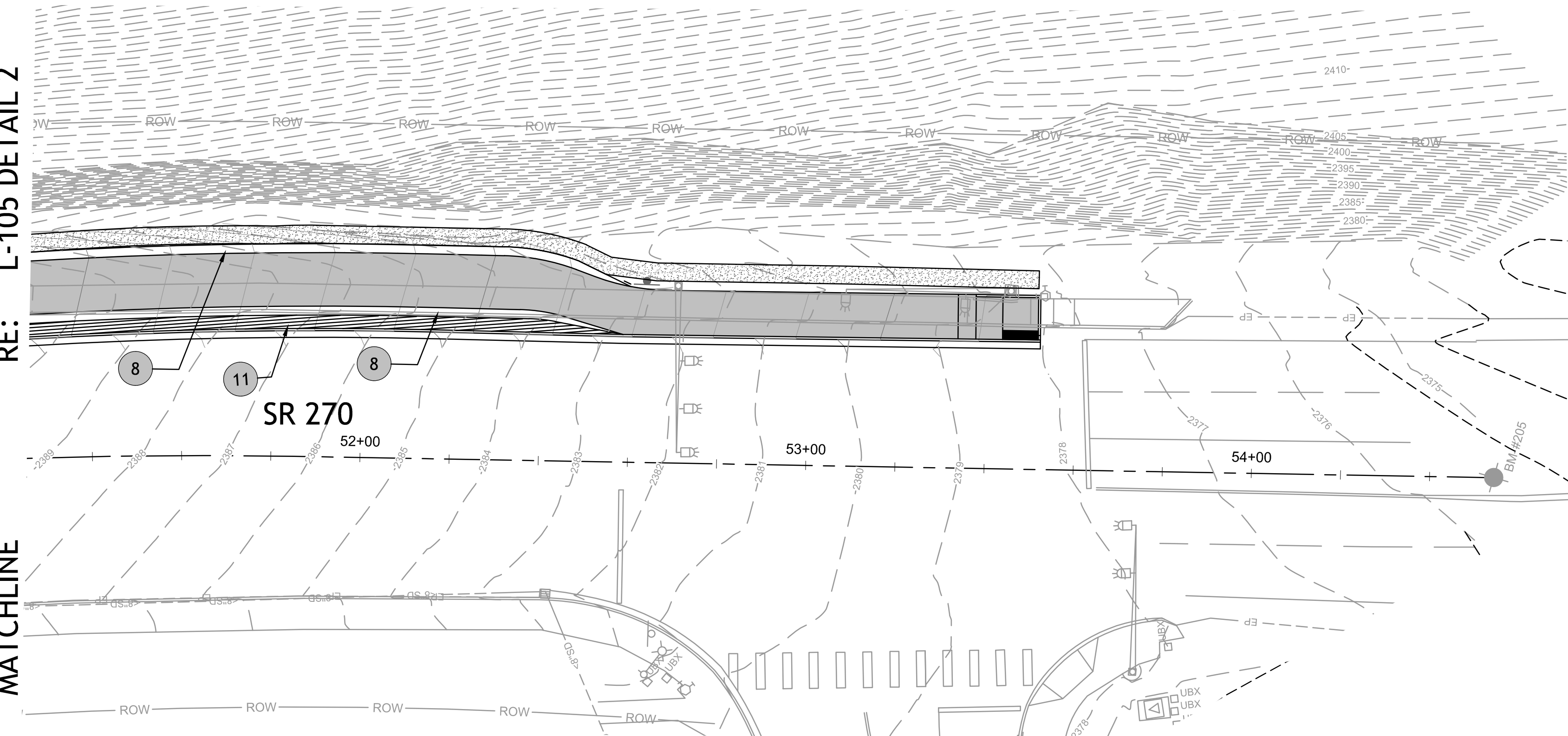
1 PLANTING PLAN - AREA IV

SCALE: 1" = 20'-0"



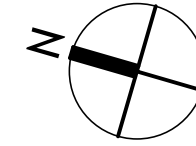
RE: L-105 DETAIL 2

MATCHLINE



1 IRRIGATION PLAN - AREA IV

SCALE: 1" = 20'-0"



KEY NOTES

| SYMBOL | DESCRIPTION                                                                             | QTY      |
|--------|-----------------------------------------------------------------------------------------|----------|
|        | 1 SOD REPAIR. LAY SOD TO MATCH EXISTING SOD FLUSH AND FLUSH WITH GRAVEL TRAIL SHOULDER. | 187 SF   |
|        | 2 DRYLAND, EROSION CONTROL HYDROSEED.                                                   | 4,414 SF |
|        | 3 EXISTING ORNAMENTAL LANDSCAPE AREA TO REMAIN. PRESERVE AND PROTECT.                   | 3,961 SF |
|        | 4 EXISTING TREE TO REMAIN. PRESERVE AND PROTECT.                                        |          |
|        | 5 EXISTING TREE TO BE REMOVED.                                                          |          |
|        | 6 EXISTING SIGN. PRESERVE AND PROTECT.                                                  |          |
|        | 7 EXISTING TURF TO REMAIN. PRESERVE AND PROTECT.                                        |          |
|        | 8 TRAIL GRAVEL SHOULDER. SEE CIVIL DRAWINGS.                                            |          |
|        | 9 EXISTING SIDEWALK TO REMAIN. PRESERVE AND PROTECT.                                    |          |
|        | 10 EXTEND SHOVEL CUT LANDSCAPE EDGE TO TRAIL.                                           |          |
|        | 11 DRIPLINE. SEE IRRIGATION LEGENED L-201.                                              |          |
|        | 12 PROPOSED CONTOURS                                                                    |          |
|        | 13 TREE PROTECTION FENCE                                                                |          |

GENERAL NOTES

- REFER TO SHEET L-201 FOR PLANTING & IRRIGATION GENERAL NOTES & LEGENDS.
- REFER TO SHEET L-501-503 FOR PLANTING & IRRIGATION DETAILS.

DESIGN FIRM:



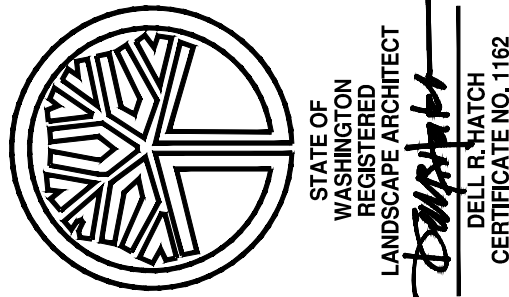
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708D SIDEWALKS

SHARED USE PATH ON SR270 TO  
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SHEET TITLE

PLANTING &  
IRRIGATION PLAN  
AREA IV

L-106

SHEET 25 OF 28 SHEETS





FILE: P:\2021\21-06-085 WSU SR270 Shared-Use\Drawings\21-06-085 PLANTING & IRRIGATION L-101-201.dwg PLOT DATE: April 15, 2016, 11:00 AM ORIGINAL PAPER SIZE: 22" x 34"

PLANTING GENERAL NOTES

- CONTRACTOR TO VERIFY LOCATION OF ALL UTILITIES PRIOR TO INITIATION OF ANY DEMOLITION OR CONSTRUCTION OPERATIONS. ANY DAMAGE TO EXISTING UTILITIES ON SITE OR ADJACENT PROPERTY SHALL BE CONTRACTOR'S RESPONSIBILITY.
- CONTRACTOR IS RESPONSIBLE FOR LOCATING PROPERTY LINE AND WORKING WITHIN THE PROPERTY BOUNDARY.
- ALL PLANT MATERIAL SHALL CONFORM TO THE AMERICAN ASSOCIATION OF NURSERYMAN'S; AMERICAN STANDARD FOR NURSERY STOCK, ANSI Z60.1-1990.
- ALL PLANT MATERIAL SHALL BE INSTALLED AS PER DETAILS AND CONSTRUCTION DOCUMENTS.
- CONTRACTOR SHALL COORDINATE PLANTING WITH IRRIGATION CONTRACTOR TO AVOID CONFLICTS BETWEEN HEAD PLACEMENT AND PLANTINGS.
- NO SUBSTITUTIONS WILL BE ALLOWED WITHOUT THE WRITTEN CONSENT OF THE OWNER/LANDSCAPE ARCHITECT.
- ALL TURF AREAS SHALL RECEIVE (4") OF TOPSOIL. ALL PLANTING BEDS SHALL RECEIVE (12") OF TOPSOIL. TOPSOIL SHALL CONSIST OF 75% EXISTING SOIL AND 25% OF BARR TECH COMPOST THAT HAS BEEN THOROUGHLY MIXED. IF NECESSARY CONTRACTOR TO IMPORT SANDY LOAM IN ALL LANDSCAPE AREAS WHERE THERE ISN'T SUFFICIENT TOPSOIL. ROCKS AND DEBRIS 3" AND LARGER SHALL BE REMOVED FROM TOPSOIL. ALL ROCKS AND DEBRIS ON THE SURFACE OF LANDSCAPE AREAS THAT ARE 1" AND LARGER SHALL BE REMOVED. CONTRACTOR IS RESPONSIBLE FOR DETERMINING IF THERE IS SUFFICIENT EXISTING TOPSOIL ON SITE.
- ALL TREES LOCATED WITHIN TURF AREAS TO RECEIVE 6" DIAMETER TOP DRESSING BARK RING, WITH SHOVEL CUT EDGE, 3" DEPTH, AS SPECIFIED. KEEP TOP DRESSING 3" AWAY FROM TREE TRUNK FLARE. TREAT TOPDRESSING WITH PRE EMERGENT. APPLY SURFLAN OR OTHER PRE-EMERGENT (APPROVED BY LANDSCAPE ARCHITECT) TO ALL SHRUB BEDS AS PER MANUFACTURER'S SPECIFICATIONS.
- ALL SHRUB BEDS SHALL HAVE A MIN. OF 3" DEPTH OF MEDIUM RED FIR BARK TOPDRESSING INSTALLED AT SURFACE. TREAT TOPDRESSING WITH PRE EMERGENT, SURFLAN PRO, PER DETAILS.
- SHRUB BED EDGING SHALL BE SHOVEL CUT EDGE. IT SHALL SEPARATE ALL TURF AREAS FROM PLANTING BED LOCATIONS. SEE PLANS FOR SPECIFIC LOCATIONS.
- FINISH GRADE OF SHRUB BEDS AFTER INSTALLATION OF TOP DRESSING SHALL BE WITHIN 1" OF TOP OF CURBS, SIDEWALKS AND SURROUNDING HARDSCAPE.
- ALL PLANTS AND PLANT STAKES SHALL BE SET PLUMB UNLESS OTHERWISE NOTED. ALL TREE STAKES AND TIES SHALL BE REMOVED AFTER ONE YEAR.
- ALL ROOT WRAPPING MATERIAL MADE OF SYNTHETICS SHALL BE REMOVED AT THE TIME OF PLANTING. REMOVE WIRE BASKETS AND OR BURLAP FROM ROOT BALL COMPLETELY.
- NO BARE ROOT STOCK SHALL BE USED UNLESS OTHERWISE NOTED IN CONTRACT DOCUMENTS.
- 'BIOSTIMULANT FERTILIZER' SHALL BE : 'ROOTS' TRANSPLANT 1-STEP DRY AS MANUFACTURED BY ROOTS, INC. (800) 223-0628. APPLY AT MANUFACTURER'S RECOMMENDED RATES.
- APPLY SCOTTS AGRIFORM 20-10-5 21 GRAM PLANTING TABLETS AT THE FOLLOWING RATES FOR ALL TREES AND SHRUBS/ORNAMENTAL GRASS: TREES - 4 TABS; SHRUBS/ORNAMENTALS - 1&2 GAL - 2 TABS, 5 GAL - 3 TABS. BACKFILL PLANTING HOLE HALFWAY THEN EQUALLY SPACE TABLETS AROUND ROOT BALL, APPROXIMATELY 1" AWAY FROM ROOTBALL. COMPLETE BACKFILL.
- TURF ESTABLISHMENT PERIOD SHALL CONSIST OF THE FOLLOWING:  
(1) AGRONOMIC SOILS TEST - TEST LOCATIONS SHALL BE OBTAINED FROM TOPSOIL IN APPROXIMATE LAWN LOCATIONS.  
(3) THREE FERTILIZER APPLICATIONS - FERTILIZER SHALL BE DEFINED BY THE RECOMMENDATIONS FROM THE SOILS TEST LAB. CONTACTOR SHALL SUBMIT TEST RESULT AND FERTILIZER CUTSHEETS FOR APPROVAL. APPLICATIONS SHALL OCCUR AT:  
INITIAL TIME OF PLANTING - RATE SHALL BE 10 LBS PER 1,000 SQ FT  
1 MONTH AFTER PLANTING - RATE SHALL BE 7.5 LBS PER 1,000 SQ FT  
2 MONTHS AFTER PLANTING - RATE SHALL BE 7.5 LBS PER 1,000 SQ FT
- CONTRACTOR SHALL MAINTAIN GRASS UNTIL A UNIFORM 3" STAND OF GRASS IS ACHIEVED. MAINTENANCE SHALL INCLUDE MOWING AND WEED CONTROL THROUGHOUT LAWN AND SHRUB BED AREAS. LANDSCAPE ARCHITECT AND OWNER SHALL APPROVE THE ESTABLISHMENT OF THE TURF AFTER ALL REQUIREMENTS ARE MET. CONTRACTOR SHALL THEN APPLY ONE FINAL BROADLEAF SPECIFIC HERBICIDE APPLICATION TO LAWN.
- ANY AND ALL AREAS DISTURBED BY ANY CONSTRUCTION ACTIVITIES THAT RESULT IN EXPOSED SOIL SHALL BE PREPARED AND HAVE TURF SOD INSTALLED FOLLOWING CONSTRUCTION ACTIVITIES. THIS INCLUDES ALL AREAS OF GRADING AND TRENCHING. SEE CIVIL DRAWINGS FOR GRADING AND TRENCHING AREAS.
- CONTRACTOR SHALL BE HELD RESPONSIBLE FOR ANY DAMAGE TO OR DEFACING OF NEW OR EXISTING CONCRETE FLATWORK, ASPHALT, TURF AREAS, OR ANY OTHER EXISTING OR NEW SITE ELEMENTS AS A RESULT OF CONSTRUCTION ACTIVITIES.
- CONTRACTOR SHALL VERIFY ALL QUANTITIES. IN THE CASE OF A DISCREPANCY BETWEEN THE PLANT SCHEDULE AND PLAN, THE PLAN LOCATIONS SHALL DICTATE COUNT.
- CONTRACTOR SHALL GUARANTEE ALL WORK, MATERIALS, AND PLANTS FOR A PERIOD OF ONE YEAR FROM THE DATE OF FINAL ACCEPTANCE.
- ALL PLANTING AREAS TO RECEIVE HEAD TO HEAD, WATER EFFICIENT IRRIGATION COVERAGE OR DRIP IRRIGATION. THE SYSTEM SHALL BE DESIGNED TO MEET, OR EXCEED, THE WASHINGTON STATE UNIVERSITY IRRIGATION STANDARDS.
- BEFORE TREE DEMOLITION INSIDE UTILITY EASEMENTS, CONTRACTOR TO COORDINATE WITH RESPECTIVE UTILITY COMPANY AND CIVIL ENGINEER.

PLANTING LEGEND

| TREES  | CODE | BOTANICAL / COMMON NAME                                                        | 2022-03-17 15:15<br>SIZE |
|--------|------|--------------------------------------------------------------------------------|--------------------------|
|        | AC2  | ABIES CONCOLOR / WHITE FIR                                                     | 8" HT.                   |
| SHRUBS | CODE | BOTANICAL / COMMON NAME                                                        | SIZE                     |
|        | AC   | AMELANCHIER X GRANDIFLORA 'AUTUMN BRILLIANCE' / AUTUMN BRILLIANCE SERVICEBERRY | 10 GAL.                  |
|        | BT   | BERBERIS THUNBERGII 'CRIMSON PYGMY' / CRIMSON PYGMY JAPANESE BARBERRY          | 5 GAL.                   |
|        | CK2  | CALAMAGROSTIS X ACUTIFLORA 'KARL FOERSTER' / KARL FOERSTER FEATHER REED GRASS  | 2 GAL.                   |
|        | CS   | COREOPSIS VERTICILLATA 'TNCORSR' TM / SUNSTAR ROSE TICKSEED                    | 1 GAL.                   |
|        | CK   | CORNUS SERICEA 'KELSEY' / KELSEY'S DWARF RED TWIG DOGWOOD                      | 2 GAL.                   |
|        | EB   | ELYMUS ARENARIUS BLUE DUNE / BLUE DUNE LYME GRASS                              | 2 GAL.                   |
|        | PA   | PENNISETUM ALOPECUROIDES / FOUNTAIN GRASS                                      | 2 GAL.                   |

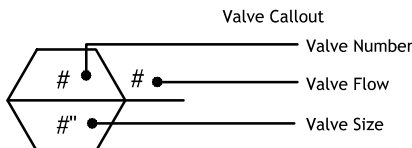
IRRIGATION GENERAL NOTES

- CONTRACTOR SHALL VERIFY ALL MUNICIPAL REQUIREMENTS ARE BEING MET AT POINT OF CONNECTION.
- CONTRACTOR TO CROSSCHECK ALL IRRIGATION INSTALLATION OPERATIONS WITH ASSOCIATED PROJECT DISCIPLINE SHEETS.
- CONTRACTOR SHALL COORDINATE AND VERIFY THE INSTALLATION OF SLEEVES, WITH RESPECTIVE CONTRACTORS, IN ALL NECESSARY LOCATIONS FOR THE PROPOSED IRRIGATION DESIGN, PRIOR TO HARDSCAPE BEING INSTALLED THAT WOULD PREVENT IRRIGATION ACCESS TO ADJACENT LANDSCAPE AREAS. FAILURE TO VERIFY ALL NECESSARY IRRIGATION IS INSTALLED TO LANDSCAPE AREAS PRIOR TO HARDSCAPE BEING INSTALLED SHALL RESULT IN THE CONTRACTOR BEING RESPONSIBLE FOR ALL COSTS ASSOCIATED WITH EXTENDING THE IRRIGATION AND ANY HARDSCAPE/SOFTSCAPE REMOVAL AND REPAIR/REPLACEMENT.
- ALL TRENCHING REQUIRED WITHIN PAVED AREAS SHALL BE BACKFILLED IN 4" LIFTS AND COMPACTED TO 95% RELATIVE COMPACTION PER ASTM-D1557. JETTING IS NOT ALLOWED. THE MOISTURE CONTENT SHALL RANGE FROM OPTIMUM TO 3% ABOVE OPTIMUM MOISTURE CONTENT AT TIME OF PLACEMENT. ALL COMPACTION SHALL BE COMPLETED WITH SPECIFIC EQUIPMENT THAT CAN COMPACT NARROW TRENCHES. THIS COMPACTION REQUIREMENT SHALL EXTEND INSIDE THE LANDSCAPED AREAS BEHIND BACK OF CURB.
- CONTRACTOR SHALL REMOVE AND DISPOSE OF ALL ROCK AND DEBRIS BROUGHT TO THE SURFACE AS A RESULT OF TRENCHING OPERATIONS.
- ALL EXISTING GRASS REMOVED FOR TRENCHING SHALL BE SAVED FOR REPLACEMENT. IF, AT THE DISCRETION OF THE OWNER'S REPRESENTATIVE, THE REMOVAL OF THE SAVED GRASS HAS REDUCED THE QUALITY OF ITS APPEARANCE OR VIABILITY, THEN NEW SOD SHALL BE INSTALLED IN ITS PLACE AT NO ADDITIONAL COST TO THE OWNER.
- ALL DISTURBED AREAS SHALL BE SODDED AND RECEIVE IRRIGATION THROUGHOUT THE WARRANTY PERIOD UNLESS OTHERWISE INDICATED.
- CONTRACTOR IS RESPONSIBLE FOR KEEPING EXISTING LAWN AND LANDSCAPE ALIVE AND THRIVING DURING ALL PHASES OF CONSTRUCTION. ANY LANDSCAPE AND TURF GRASS AREAS DAMAGED DURING CONSTRUCTION SHALL BE REPAIRED TO OWNER'S SATISFACTION AT NO ADDITIONAL COST.
- CONTRACTOR SHALL PATCH AND REPAIR EXISTING IRRIGATION SYSTEM AS REQUIRED FROM DAMAGE CAUSED BY CONSTRUCTION ACTIVITIES.
- THE PROPOSED IRRIGATION SYSTEM IS DESIGNED BASED ON THE ASSUMPTION OF THE AVAILABILITY OF 40 GPM. AND TO OPERATE AT STATED PSI FOR EACH IRRIGATION HEAD IN IRRIGATION LEGEND.
- CONTRACTOR SHALL VERIFY WORKING PSI AT MAXIMUM OPERATING FLOW PRIOR TO CONSTRUCTION OF SYSTEM AND NOTIFY OWNER'S REPRESENTATIVE OF ANY FINDINGS. (+/-) ## PSI REPORTED )
- LOCATIONS OF EQUIPMENT SHALL BE APPROVED IN THE FIELD WITH OWNER AND LANDSCAPE ARCHITECT PRIOR TO INSTALLATION.
- IRRIGATION HEAD LAYOUT SHALL BE PLACED AS DESIGNED. ALL CHANGES TO HEAD LAYOUT SHALL BE APPROVED BY LANDSCAPE ARCHITECT PRIOR TO INSTALLATION. IRRIGATION PIPING IS DIAGRAMMATIC ONLY. MAINLINES, LATERALS, SLEEVES AND WIRES ARE SHOWN BELOW PAVEMENT ADJACENT TO LANDSCAPE AREAS, THEY ARE TO BE LOCATED IN THE LANDSCAPE AREA UNLESS SHOWN WITH A SLEEVE SYMBOL WHENEVER POSSIBLE, UNLESS OTHERWISE NOTED.
- CONTRACTOR SHALL LOCATE CONTROL VALVES AND ISOLATION VALVES WITHIN 1' OF SIDEWALKS OR CURB EDGES IN A CLEAN ORDERLY MANNER WHENEVER POSSIBLE. ALL VALVE BOXES (VB) LOCATED ON A SLOPE SHALL BE PLACED SO THAT ALL 4 CORNERS OF THE VALVE BOX ARE FLUSH WITH THE SLOPE.
- USE KING BROTHERS (KBI) VALVE OR IN HEAD DRAIN CHECK VALVES TO PREVENT LOW HEAD DRAINAGE WHERE EVER IT OCCURS
- INSTALL THE PRESSURE REGULATOR ON CONTROL VALVES AND SET SO THAT ALL IRRIGATION HEADS ON CONTROL VALVE RECEIVE STATED PSI PER LEGEND.
- ALL PIPE LINES SHALL BE PLACED SO THAT DESCRIPTIONS FACE UP.
- THE MAINLINE PIPE CONNECTION TO THE CONTROL VALVE SHALL BE THE SAME SIZE PIPE AS EXITING THE CONTROL VALVE.
- ONE TEE OR ELBOW OFF OF MAINLINE PER REMOTE CONTROL VALVE. ONE REMOTE CONTROL VALVE PER VALVE BOX. NO MANIFOLD SYSTEMS.
- PLACE NON-POTABLE PURPLE LOCATOR RIBBON 3" ABOVE PROTECTIVE LAYER OF SOIL ON MAINLINE ONLY.
- IRRIGATION CONTROL WIRE SHALL BE 14 GAUGE SHIELD 2 WIRE PATH. MATCH WIRE COLOR W/ EXISTING SYSTEM. THE TWISTED TWO WIRE SHALL CONTAIN SINGLE CONDUCTOR WIRES SUITABLE FOR DIRECT BURIAL. CONTROL WIRES NOT FOLLOWING MAINLINE TRENCH SHALL BE IN SCH. 40 PVC CONDUIT. SIZE TO FIT.
- ALL WIRE SPLICES TO BE DONE WITH SPECIFIED DBR-6 WIRE SPLICE SNAP CONNECTOR AND SEALER OR APPROVED EQUAL.
- TERMINATION OF UNUSED CONTROL WIRE SHALL BE COVERED WITH A WIRE NUT AND PLACED WITHIN SPECIFIED DBR-6 WIRE SPLICE SNAP CONNECTOR AND SEALER, AND PLACED IN A CONTROL VALVE BOX.
- NO CONTROL WIRES TO BE PLACED IN THRUST BLOCKS. LOCATE WIRES ON OPPOSITE SIDE OF THRUST BLOCK.
- POWER SHALL BE SUPPLIED TO CONTROLLER LOCATION BY GENERAL CONTRACTOR. LANDSCAPE CONTRACTOR SHALL INFORM GENERAL OF THE NEED FOR 110V POWER AT THE REQUIRED LOCATION.
- RAIN SENSOR SHALL BE LOCATED IN THE BEST POSITION TO RECEIVE RAINFALL. SUBMIT LOCATION OF RAIN SENSOR FOR APPROVAL PRIOR TO INSTALLATION.
- LIGHTING ARRESTOR AND GROUNDING ROD TO BE INSTALLED PER MANUFACTURE'S INSTRUCTIONS. LIGHTING ARRESTOR TO BE LOCATED IN CONTROL VALVE BOX WITH CONTROL VALVE WHENEVER POSSIBLE. IF THERE IS NO NEARBY CONTROL VALVE BOX INSTALL IN A CARSON 9'10" ROUND VALVE BOX. GROUNDING ROD TO BE INSTALLED IN A SEPARATE CARSON 9'10" ROUND VALVE BOX.
- CONTRACTOR SHALL PERFORM WATER COVERAGE TEST PRIOR TO SEEDING/SODDING TURF. IF NECESSARY ADJUST IRRIGATION SO 100% COVERAGE IS MET.
- IRRIGATION SHALL BE ADJUSTED SO THAT NO OVERSPRAY HITS THE BUILDING, AND MINIMUM TO NO OVERSPRAY HITS SIGN WALLS, SIDEWALKS, AND PAVEMENT.
- CONTRACTOR SHALL BE RESPONSIBLE FOR INITIAL ANNUAL IRRIGATION SCHEDULE AND SHALL AFFIX THE SCHEDULE INSIDE THE CONTROLLER CABINET DOOR.
- CONTRACTOR SHALL REFER TO DETAILS AND SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
- IN THE EVENT OF A DISCREPANCY, IMMEDIATELY NOTIFY LANDSCAPE ARCHITECT.
- CONTRACTOR SHALL SUPPLY 'AS-BUILT' DRAWINGS TO THE OWNER PRIOR TO FINAL ACCEPTANCE. AS-BUILTS SHALL BE IN BOTH PAPER FORM AND AUTOCAD DRAWING FORMAT SUBMITTED IN AN ELECTRONIC FORMAT.
- CONTRACTOR SHALL COORDINATE WINTERIZATION OF THE SYSTEM WITH THE MAINTENANCE STAFF. THE CONTRACTOR SHALL INSPECT, ADJUST & MAKE ANY NECESSARY REPAIRS TO THE SYSTEM THE SPRING FOLLOWING INSTALLATION.

IRRIGATION LEGEND

IRRIGATION SCHEDULE

| SYMBOL | MANUFACTURER/MODEL/DESCRIPTION                                                                                                                                                                                                                                                           | PSI |
|--------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|
|        | HUNTER MP3000 PROS-04-PR540-CV TURF ROTATOR, 4" POP-UP WITH FACTORY INSTALLED CHECK VALVE, PRESSURE REGULATED TO 40 PSI, MP ROTATOR NOZZLE ON PR540 BODY. B=BLUE ADJ ARC 90-210, Y=YELLOW ADJ ARC 210-270, A=GRAY 360 ARC.                                                               | 40  |
|        | HUNTER MP1000 PROS-00-PR540 SHRUB ROTATOR, FIXED-RISER, PRESSURE REGULATED TO 40 PSI, MP ROTATOR NOZZLE M=MAROON ADJ ARC 90 TO 210, L=LIGHT BLUE 210 TO 270 ARC, O=OLIVE 360 ARC.                                                                                                        | 40  |
| SYMBOL | MANUFACTURER/MODEL/DESCRIPTION                                                                                                                                                                                                                                                           |     |
|        | RAIN BIRD XCZLF-100-PRF 1" LOW FLOW, 0.2-10 GPM, WITH 1" LOW FLOW VALVE VALVE AND 1" PRESSURE REGULATING RBY FILTER AND 40PSI PRESSURE REGULATOR.                                                                                                                                        |     |
|        | AREA TO RECEIVE DRIPLINE<br>RAIN BIRD XF5-CV-06-18-NP XF5-CV NON POTABLE ON-SURFACE LANDSCAPE DRIPLINE WITH A HEAVY-DUTY 4.3 PSI CHECK VALVE. 0.6 GPH EMITTERS AT 18" O.C. DRIPLINE LATERALS SPACED AT 18" APART, W/ EMITTERS OFFSET FOR TRIANGULAR PATTERN. SPECIFY XF INSERT FITTINGS. |     |
| SYMBOL | MANUFACTURER/MODEL/DESCRIPTION                                                                                                                                                                                                                                                           |     |
|        | RAIN BIRD PESB-PRS-D 1" 1", 1-1/2", 2" PLASTIC INDUSTRIAL VALVES. LOW FLOW OPERATING CAPABILITY, GLOBE CONFIGURATION. WITH PRESSURE REGULATING MODULE, AND SCRUBBER TECHNOLOGY FOR RELIABLE PERFORMANCE IN DIRTY WATER IRRIGATION APPLICATIONS.                                          |     |
|        | POINT OF CONNECTION 3". SEE CIVIL SHEET.                                                                                                                                                                                                                                                 |     |
|        | IRRIGATION LATERAL LINE: PVC SCHEDULE 40                                                                                                                                                                                                                                                 |     |
|        | IRRIGATION LATERAL LINE: PVC SCHEDULE 40 1"                                                                                                                                                                                                                                              |     |
|        | IRRIGATION LATERAL LINE: PVC SCHEDULE 40 1 1/2"                                                                                                                                                                                                                                          |     |
|        | IRRIGATION MAINLINE: PVC SCHEDULE 40                                                                                                                                                                                                                                                     |     |
|        | PIPE SLEEVE: PVC CLASS 200 SDR 21                                                                                                                                                                                                                                                        |     |



DESIGN FIRM:



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708D SIDEWALKS

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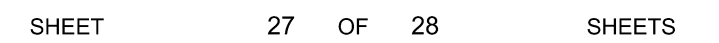
SHEET TITLE

PLANTING &  
IRRIGATION  
NOTES & LEGEND

L-201

SHEET 26 OF 28 SHEETS







FILE: P:\2022\121-06-085 WSU SR270 Shared-Use\Drawings\21-06-085 DETAILS L-501-503.dwg PLOT DATE: April 15, 2016, 11:00 AM ORIGINAL PAPER SIZE: 22" x 34"

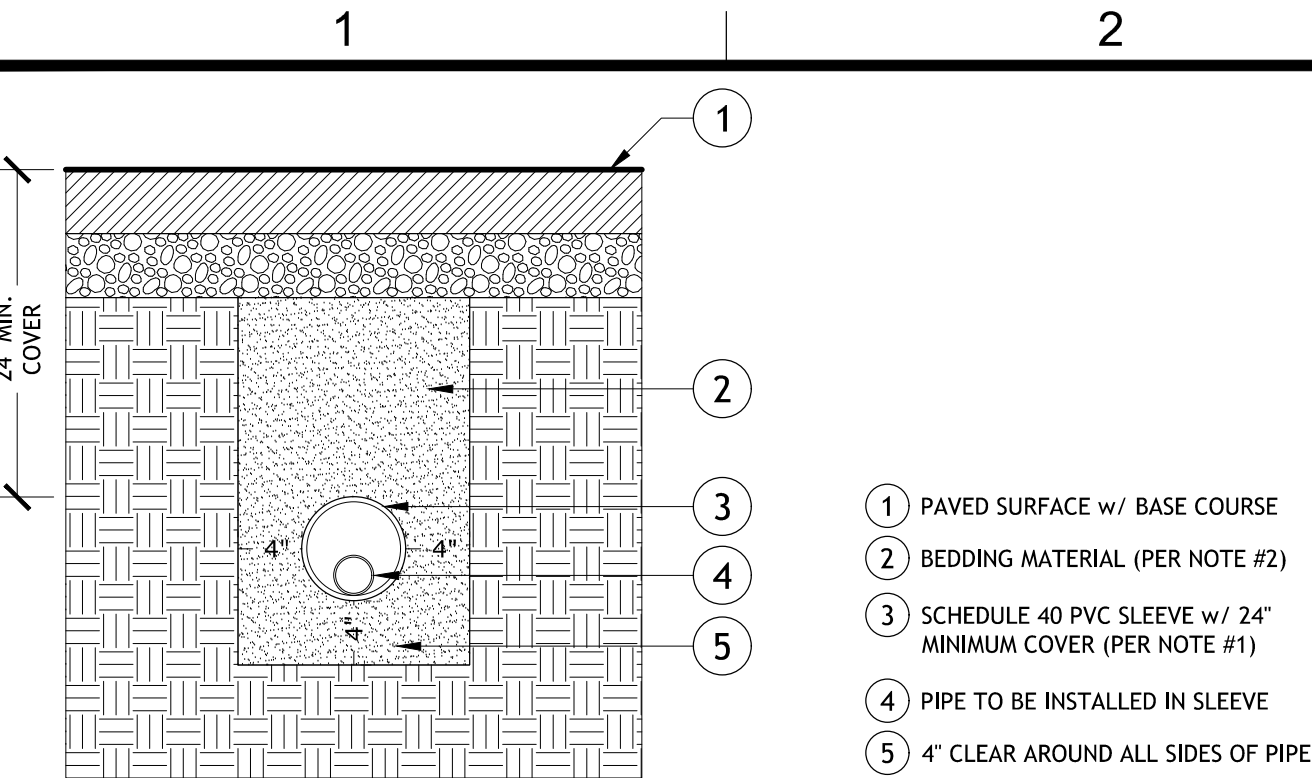
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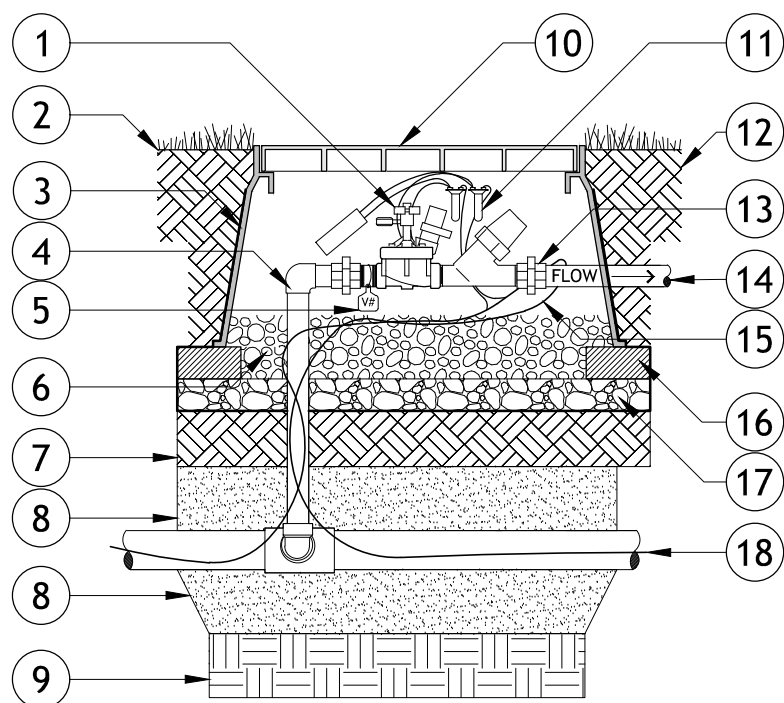
A



- NOTES:
- SLEEVE PIPE SIZE SHALL BE 2x TIMES THE SIZE OF THE PIPE INSTALLED THROUGH SLEEVE.
  - BEDDING MATERIAL SHALL BE CLEAN BEDDING SAND OR NATIVE SOIL CLEAR OF ROCKS AND DEBRIS GREATER THAN (1").
  - NO ROCKS SHALL BE PLACED AGAINST PIPE.
  - DO NOT INSTALL MULTIPLE SLEEVES DIRECTLY OVER EACH OTHER.

#### 01 IRRIGATION SLEEVE TRENCH (24" MIN. COVER)

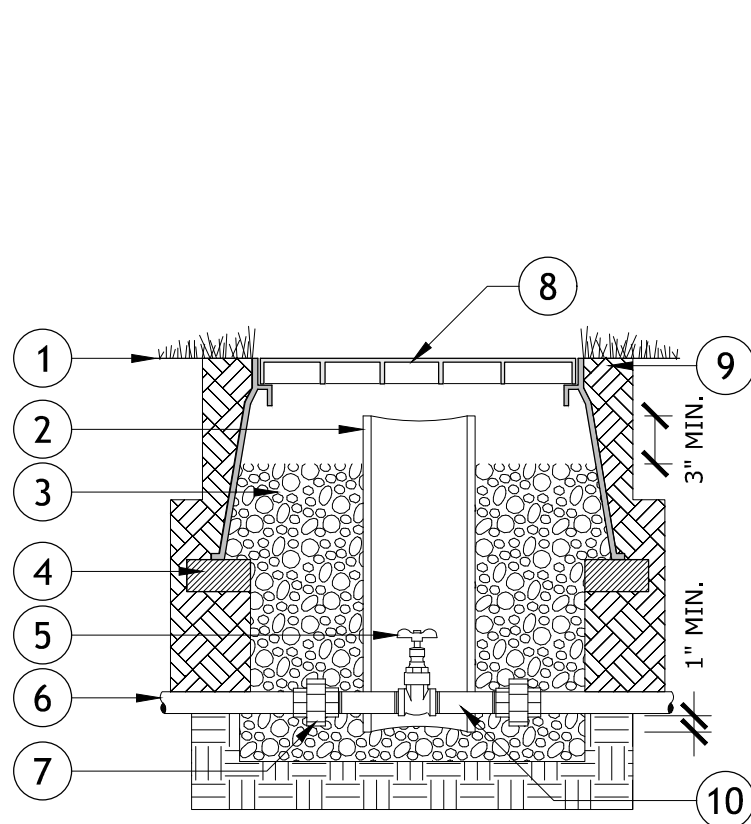
1" = 1'-0"



- NOTES:
- ONE REMOTE CONTROL VALVE PER VALVE BOX. NO MANIFOLD SYSTEMS.
  - ALL PIPE, UNIONS, NIPPLES, AND FITTINGS SHALL BE SCHEDULE 80 PVC INSIDE VALVE BOX UNLESS OTHERWISE NOTED.
  - ALL FITTINGS AND NIPPLES SHALL BE THE SAME DIAMETER OF REMOTE CONTROL VALVE.
  - BEDDING MATERIAL SHALL BE CLEAN BEDDING SAND OR NATIVE SOIL CLEAR OF ROCKS AND DEBRIS GREATER THAN (1").
  - NO ROCKS SHALL BE PLACED AGAINST PIPE.
  - ALL VALVES SHALL INCLUDE PRESSURE REGULATING DEVICES.
  - EACH VALVE SHALL BE CONNECTED TO A CALSENS 2-STATION, 2-WIRE DECODER MODEL #CS-2W-2ST (ONE DECODER/TWO VALVE SOLENOIDS). INSTALL PER MANUFACTURER'S SPECIFICATIONS.

#### 04 (2-WIRE) IRRIGATION REMOTE CONTROL DRIP VALVE

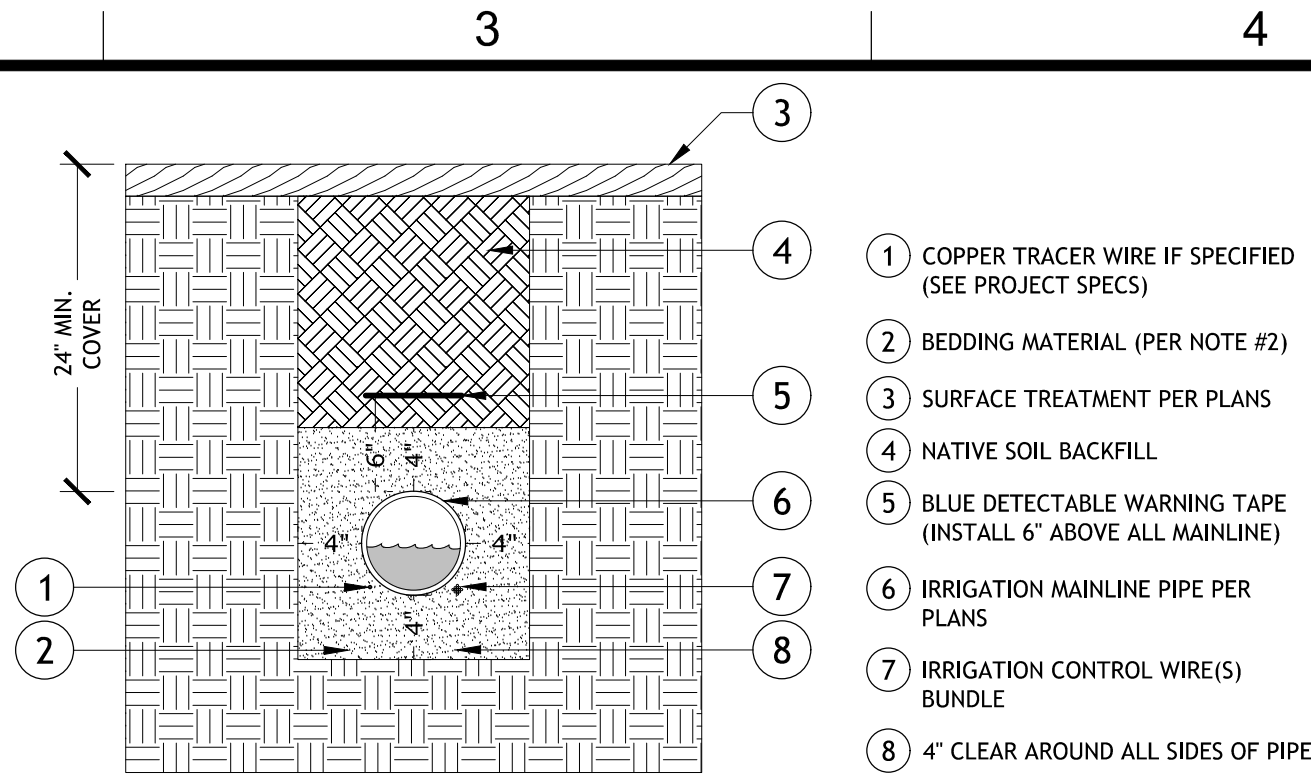
1" = 1'-0"



- NOTES:
- ALL UNIONS, NIPPLES, AND FITTINGS SHALL BE SCHEDULE 80 PVC INSIDE VALVE BOX UNLESS OTHERWISE NOTED.
  - ALL FITTINGS AND NIPPLES SHALL BE THE SAME DIAMETER OF ISOLATION VALVE.

#### 07 ISOLATION VALVE (GATE)

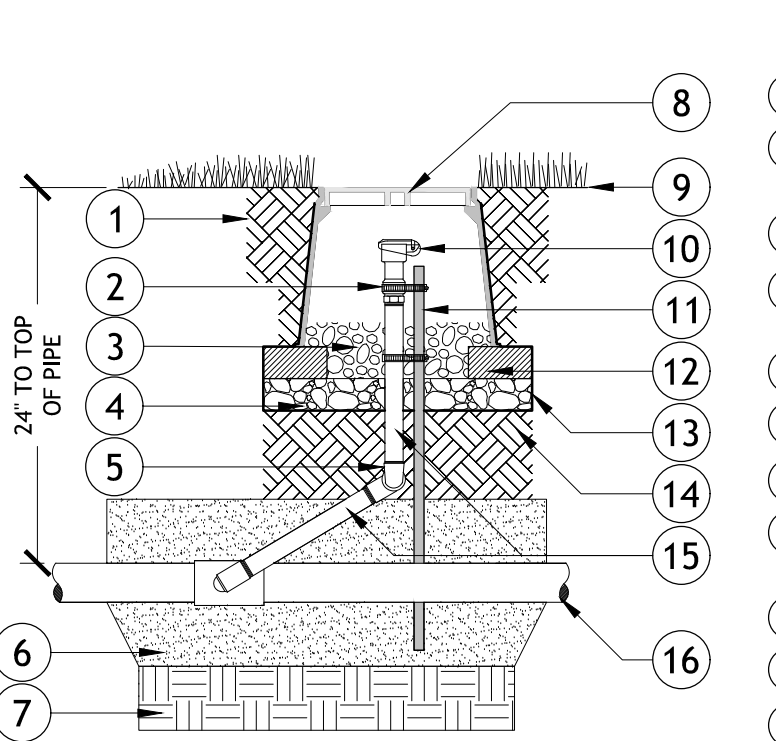
1" = 1'-0"



- NOTES:
- IRRIGATION MAINLINE PIPE SIZED PER PLANS.
  - BEDDING MATERIAL SHALL BE CLEAN BEDDING SAND OR NATIVE SOIL CLEAR OF ROCKS AND DEBRIS GREATER THAN (1").
  - NO ROCKS SHALL BE PLACED AGAINST PIPE.
  - DO NOT INSTALL MULTIPLE PIPES DIRECTLY OVER EACH OTHER.

#### 02 IRRIGATION MAINLINE TRENCH (24" MIN. COVER)

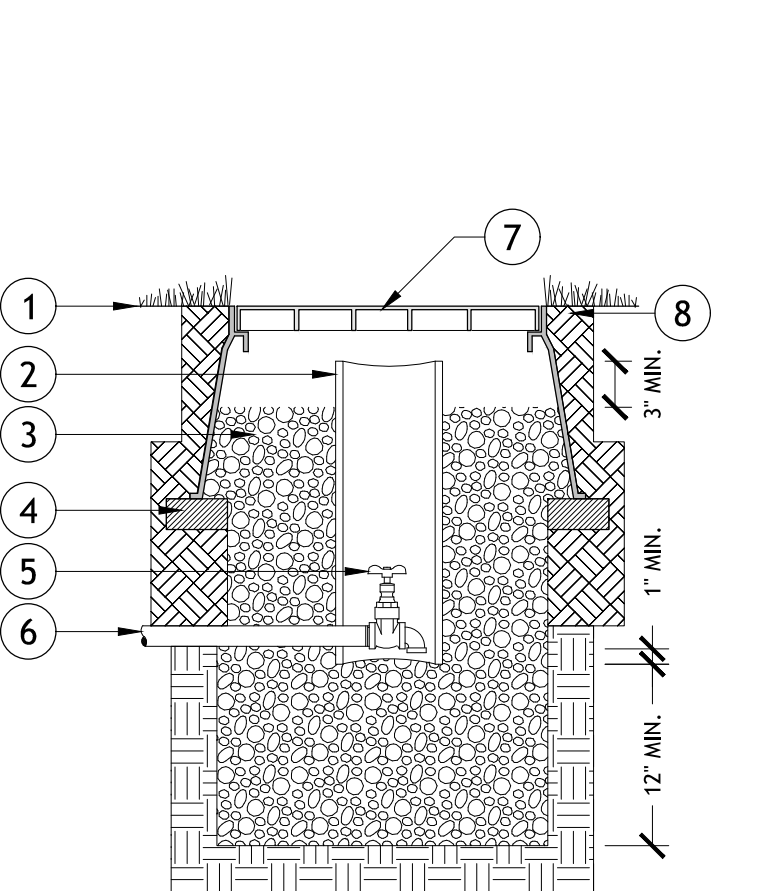
1" = 1'-0"



- NOTES:
- CONTRACTOR TO PROVIDE (2) QUICK COUPLER KEYS TO OWNER DURING FINAL PROJECT WALK-THROUGH.
  - ONE QUICK COUPLER PER (10") ROUND VALVE BOX.
  - ALL PIPE, NIPPLES, AND FITTINGS BETWEEN MAINLINE AND QUICK COUPLER SHALL BE SIZED TO MATCH QUICK COUPLER SIZE.
  - BEDDING MATERIAL SHALL BE CLEAN BEDDING SAND OR NATIVE SOIL CLEAR OF ROCKS AND DEBRIS GREATER THAN (1").
  - NO ROCKS SHALL BE PLACED AGAINST PIPE.
  - TOP OF QUICK COUPLER ASSEMBLY SHALL BE SET (3") BELOW LID OF VALVE BOX.

#### 05 IRRIGATION QUICK COUPLER

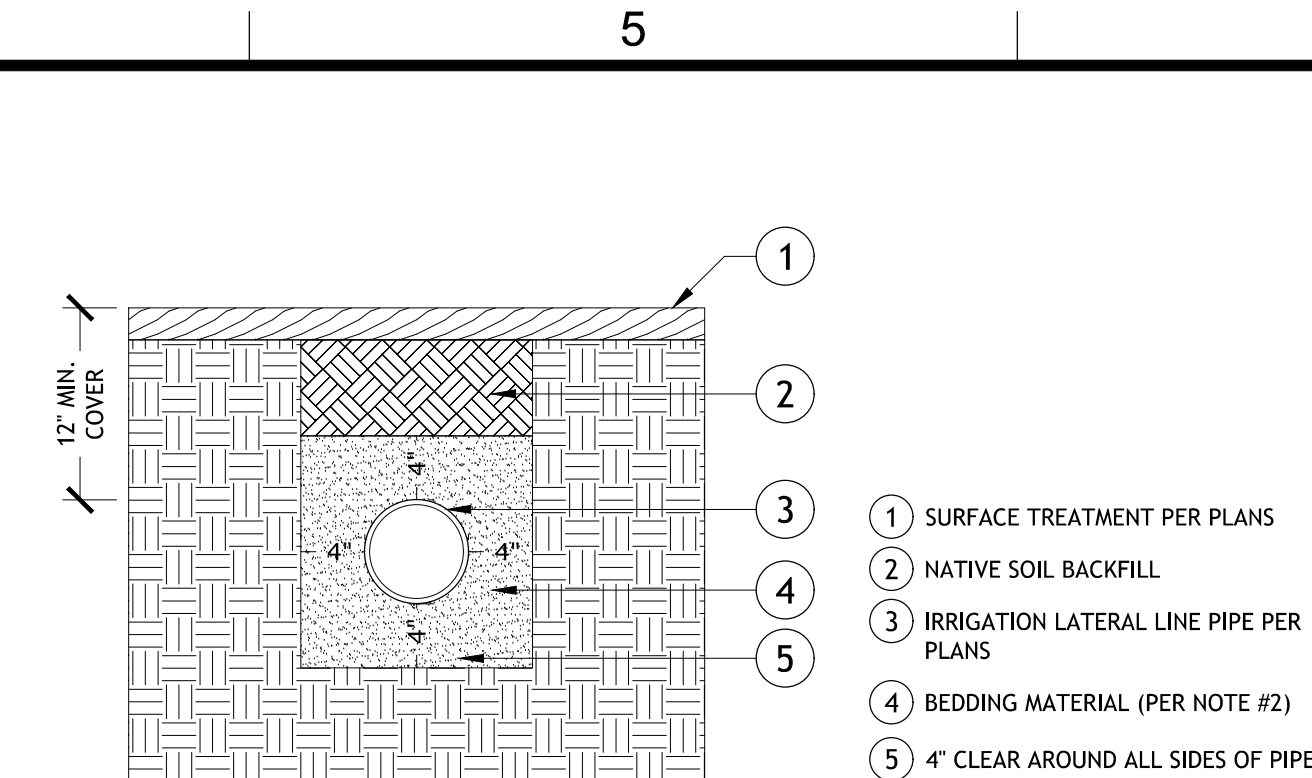
1" = 1'-0"



- NOTES:
- ALL UNIONS, NIPPLES, AND FITTINGS SHALL BE SCHEDULE 80 PVC INSIDE VALVE BOX UNLESS OTHERWISE NOTED.
  - ALL FITTINGS AND NIPPLES SHALL BE THE SAME DIAMETER OF DRAIN VALVE.

#### 08 MANUAL DRAIN VALVE

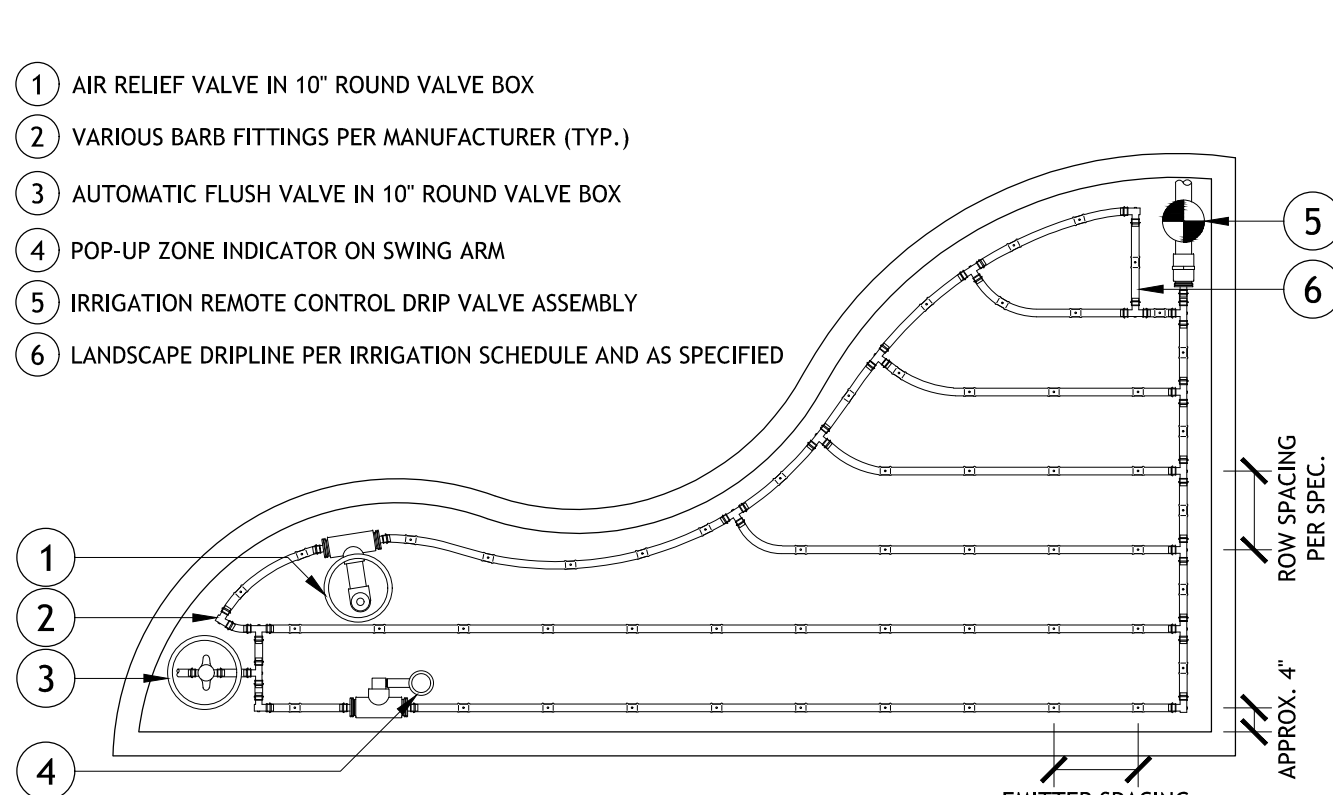
1" = 1'-0"



- NOTES:
- IRRIGATION LATERAL LINE PIPE SIZED PER PLANS.
  - BEDDING MATERIAL SHALL BE NATIVE SOIL CLEAR OF ROCKS AND DEBRIS GREATER THAN (1").
  - NO ROCKS SHALL BE PLACED AGAINST PIPE.
  - DO NOT INSTALL MULTIPLE PIPES DIRECTLY OVER EACH OTHER.

#### 03 IRRIGATION LATERAL TRENCH (12" MIN. COVER)

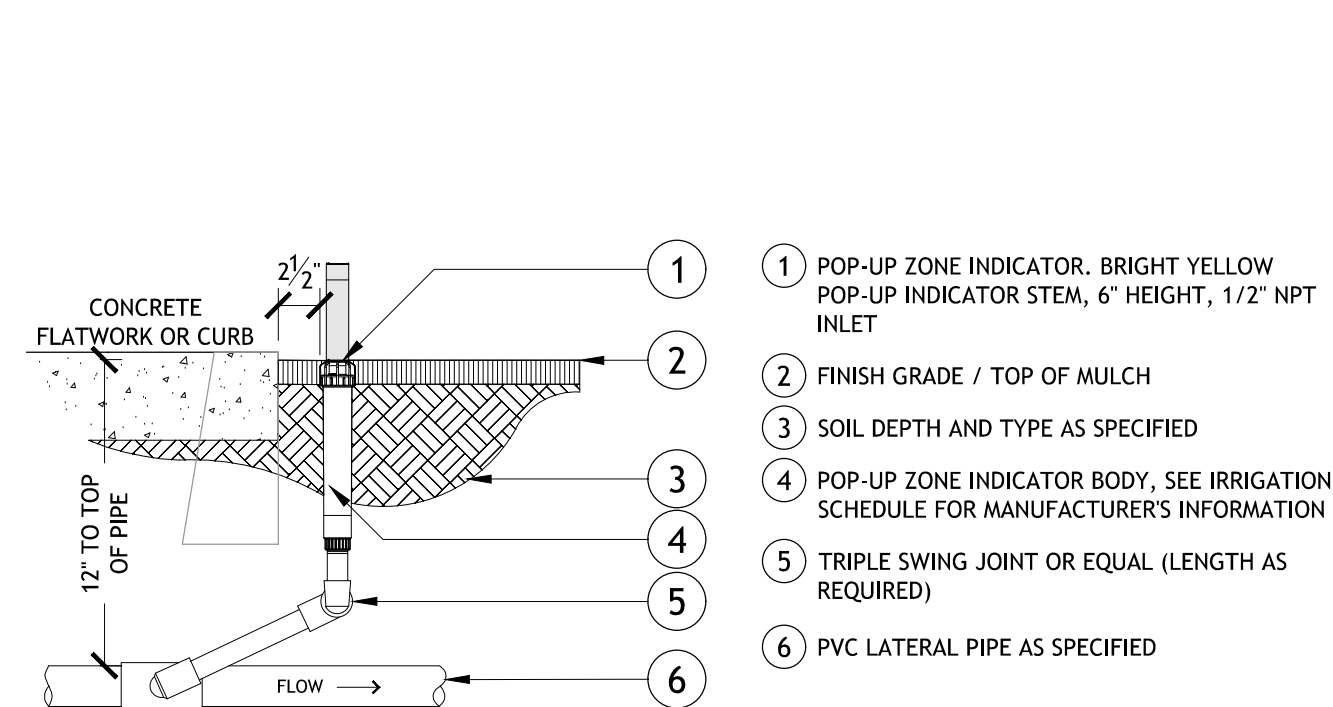
1" = 1'-0"



- NOTES:
- ALL DRIPLINE AND/OR HEADERS SHALL BE BURIED (4") FROM SURFACE. STAKE TUBING (16") O.C. MAX. w/ (6") GALVANIZED STEEL LANDSCAPE STAKES.
  - AIR RELIEF VALVE SHALL BE INSTALLED IN VALVE BOX AT OPTIMAL HIGHEST POINT FROM IRRIGATION REMOTE CONTROL DRIP VALVE ASSEMBLY. MULTIPLE AIR RELIEF VALVES MAY BE NEEDED TO ACCOMMODATE DIFFERENCES IN GRADE. INSTALL PER MANUFACTURER'S SPECIFICATIONS.
  - POP-UP ZONE OPERATING INDICATOR SHALL BE INSTALLED AT OPTIMAL FURTHEST POINT FROM IRRIGATION REMOTE CONTROL DRIP VALVE ASSEMBLY AND IN CLEAR VIEW WHEN POPPED UP. INSTALL PER MANUFACTURER'S SPECIFICATIONS.
  - AUTOMATIC FLUSH VALVE SHALL BE INSTALLED AT OPTIMAL FURTHEST POINT FROM IRRIGATION REMOTE CONTROL DRIP VALVE ASSEMBLY TO ALLOW FOR MAXIMUM DEBRIS FLUSH IN SYSTEM. INSTALL PER MANUFACTURER'S SPECIFICATIONS.

#### 06 IRRIGATION DRIPLINE DETAIL

3/8" = 1'-0"



- NOTES:
- REFER TO IRRIGATION SCHEDULE AND PROJECT SPECIFICATIONS FOR PRODUCT INFORMATION.
  - ALL HEADS SHALL BE PLACED (2.5") FROM ALL HARDSCAPE SURFACES.
  - ALL PIPE DEPTHS PER PLANS AND SPECIFICATIONS.

#### 09 DRIP IRRIGATION POP-UP ZONE INDICATOR

1" = 1'-0"

DESIGN FIRM:



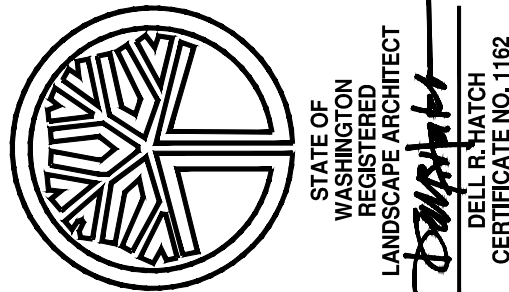
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### 708D SIDEWALKS

SHARED USE PATH ON SR270 TO  
STADIUM WAY

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| MARK | DATE | DESCRIPTION |
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| CAD DWG FILE: CAD                      |                   |
| DESIGN BY:                             |                   |
| DRAWN BY: JC                           | CHECKED BY: BLR   |
| PROJECT No. 9705-2018                  | FILE No. 708D-174 |
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SHEET TITLE

## IRRIGATION DETAILS

L-502

SHEET 28 OF 28 SHEETS