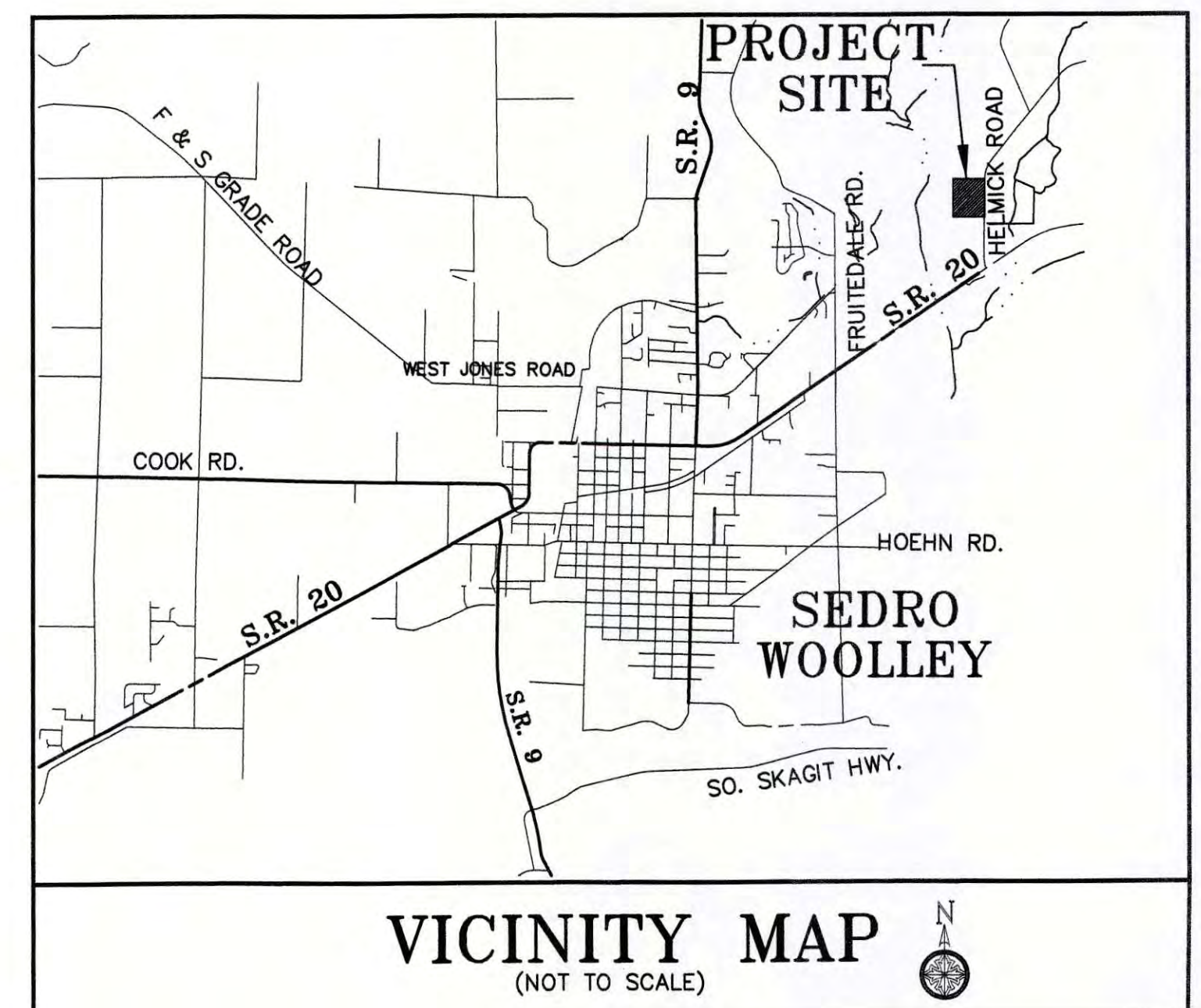
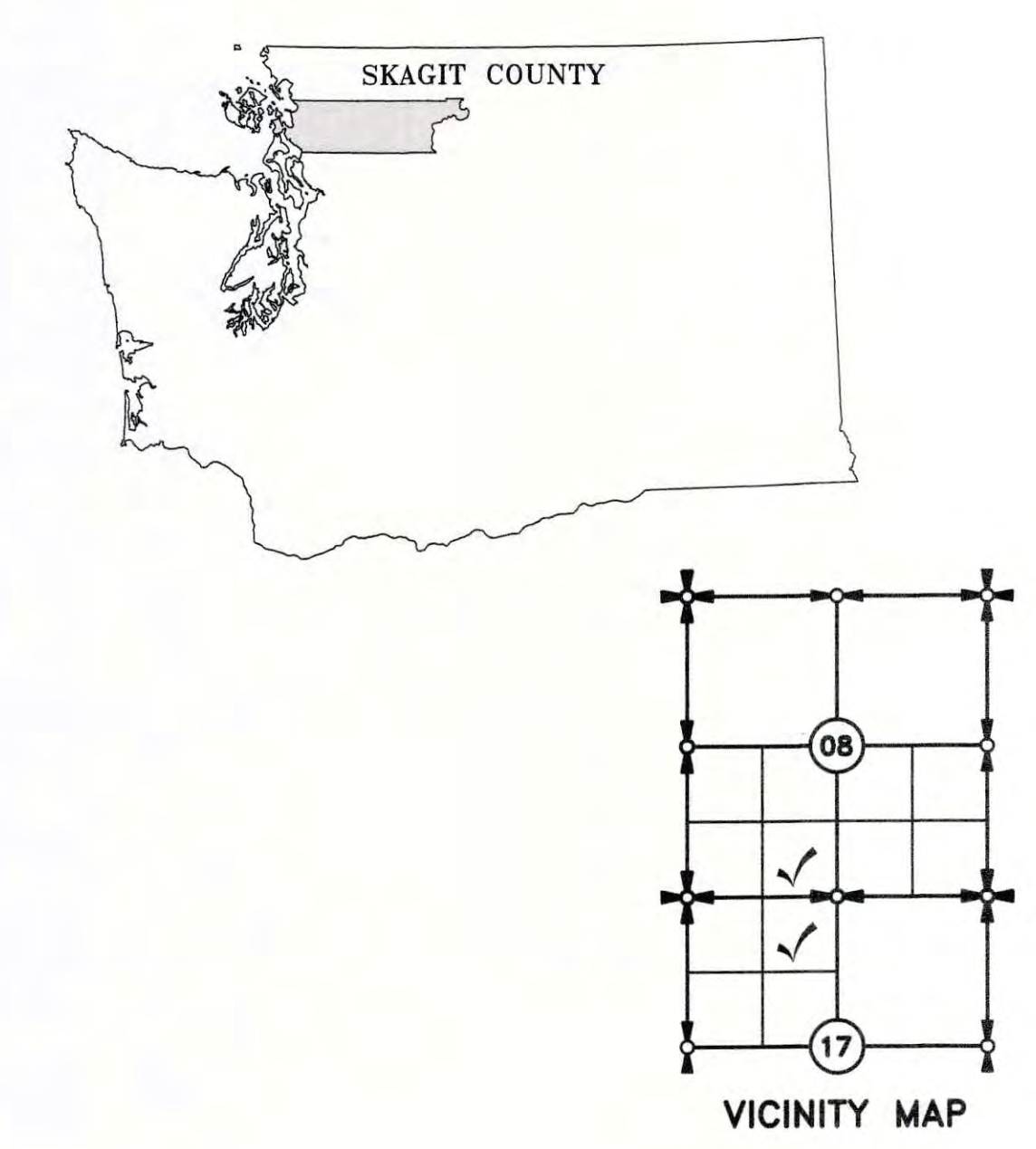


NOTES:
1. BASIS OF BEARING: WASHINGTON STATE PLANE COORDINATE NORTH ZONE NO. 4601, NAD 83/ 2008.
2. INSTRUMENTATION USED: DJI PHANTOM 4 PRO DRONE, LEICA VIVA 14 GPS/GNSS RECEIVERS.
3. DATUM: NAVD88
4. AERIAL SURVEY CONDUCTED ON THE 3RD OF MARCH, 2020 AT 4:15PM.
5. PILOT IN COMMAND: MATTHEW SEMRAU PID: 4013647



PROJECT DATA:
JURISDICTION: SKAGIT COUNTY
PROJECT ADDRESS: 25749 HELMICK ROAD
SEDRO-WOOLLEY, WA 98283
TAX PARCEL NOS. P38653, P39265

CONTACTS:
PUGET SOUND ENERGY
1660 PARK LANE
BURLINGTON, WA 98233
CONTACT: BRIAN SMITH
TEL: (360) 766-5496
FRONTIER
595 PEASE ROAD
BURLINGTON, WA 98233
CONTACT: BRIAN SMITH
TEL: (360) 707-0641
VERIZON
595 PEASE ROAD
BURLINGTON, WA 98233
CONTACT: MARK HEHN
TEL: (360) 707-0641
OWNER
SKAGIT COUNTY
PARKS AND RECREATION
1730 CONTINENTAL PLACE
MOUNT VERNON, WA 98273
CONTACT: BRIAN ADAMS, DIRECTOR
(360) 416-1350

LANDSCAPE ARCHITECT
ECCOS DESIGN
505 SOUTH 1ST STREET SUITE B
MOUNT VERNON, WA 98273
CONTACT: PATRIK DYLAN, PLA
(360) 419-7400

PLAN CONTENTS

SHEET NO.	DRAWING TITLE
C1	COVER SHEET & TOPOGRAPHIC SURVEY
C2	TESCP PLAN, NOTES & DETAILS
C2B	DEMO PLAN
C3	GRADING/SITE PLAN
C4	GRADING/SITE PLAN
C5	SWALE PLAN & SECTIONS
C6	NOTES & DETAILS
L1	SITE PLAN
L2	PLAZA LAYOUT
L3	WALL DETAILS
L4	SIGN AND SEAT DETAILS
L5	SIGN FRAME DETAILS
L6	CONCRETE AND SITE DETAILS
L7	TABLE DETAILS
L8	BENCH AND FLAG DETAILS
L9	RACKS, HITCH, FENCE AND BBQ
LP1	PLANTING PLAN
LP2	PLANTING DETAILS
IR1	IRRIGATION PLAN
IR2	IRRIGATION DETAILS
E-1	ELECTRICAL SITE PLAN
E-2	ELECTRICAL RISER DIAGRAM & SCHEDULES
E-3	ELECTRICAL SPECIFICATIONS

SKAGIT COUNTY
1800 CONTINENTAL PLACE
MT. VERNON, WA 98273
CONTACT: SHAWN CHRISTENSEN
TEL: (360) 416-1327
CASCADE NATURAL GAS
1520 SOUTH 2ND STREET
MOUNT VERNON, WA 98273
CONTACT: JAMES HOBBS, JR., PE
TEL: (360) 336-3876
SKAGIT PUD
1415 FREEWAY DRIVE
MT. VERNON, WA 98273
CONTACT: MICHAEL DEMERS
TEL: (360) 848-2157
ENGINEER/SURVEYOR
SEMRAU ENGINEERING & SURVEYING
2118 RIVERSIDE DRIVE SUITE 208
MOUNT VERNON, WA 98273
CONTACT: JOHN B. SEMRAU PE, PLS
BRYANT R. MOORE PE
TEL: (360) 424-9566
ELECTRICAL
K ENGINEERS, INC.
208 3RD STREET
LYNDEN, WA 98264
CONTACT: STEVE TEVELDE, P.E.
TEL: (360) 354-4757, EXT. 201

SEMRAU ENGINEERING & SURVEYING
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JOHN B. SEMRAU
STATE OF WASHINGTON
PROFESSIONAL LAND SURVEYOR
28626
REGISTRATION NO. 28626

NO.	DATE	REVISION	BY	REV.

COVER SHEET &
TOPOGRAPHIC SURVEY

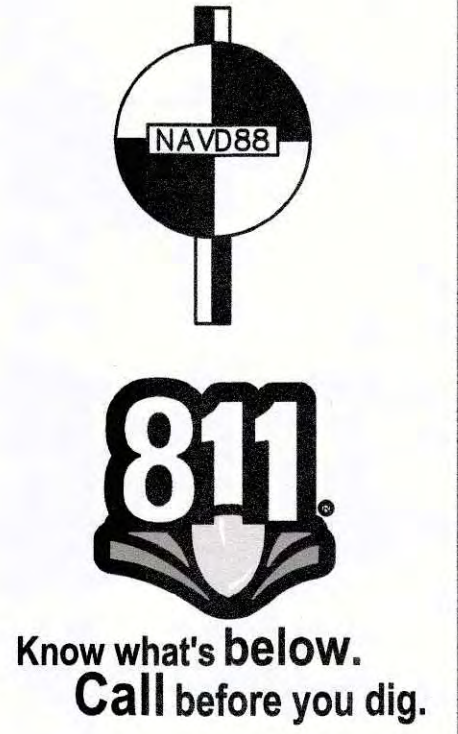
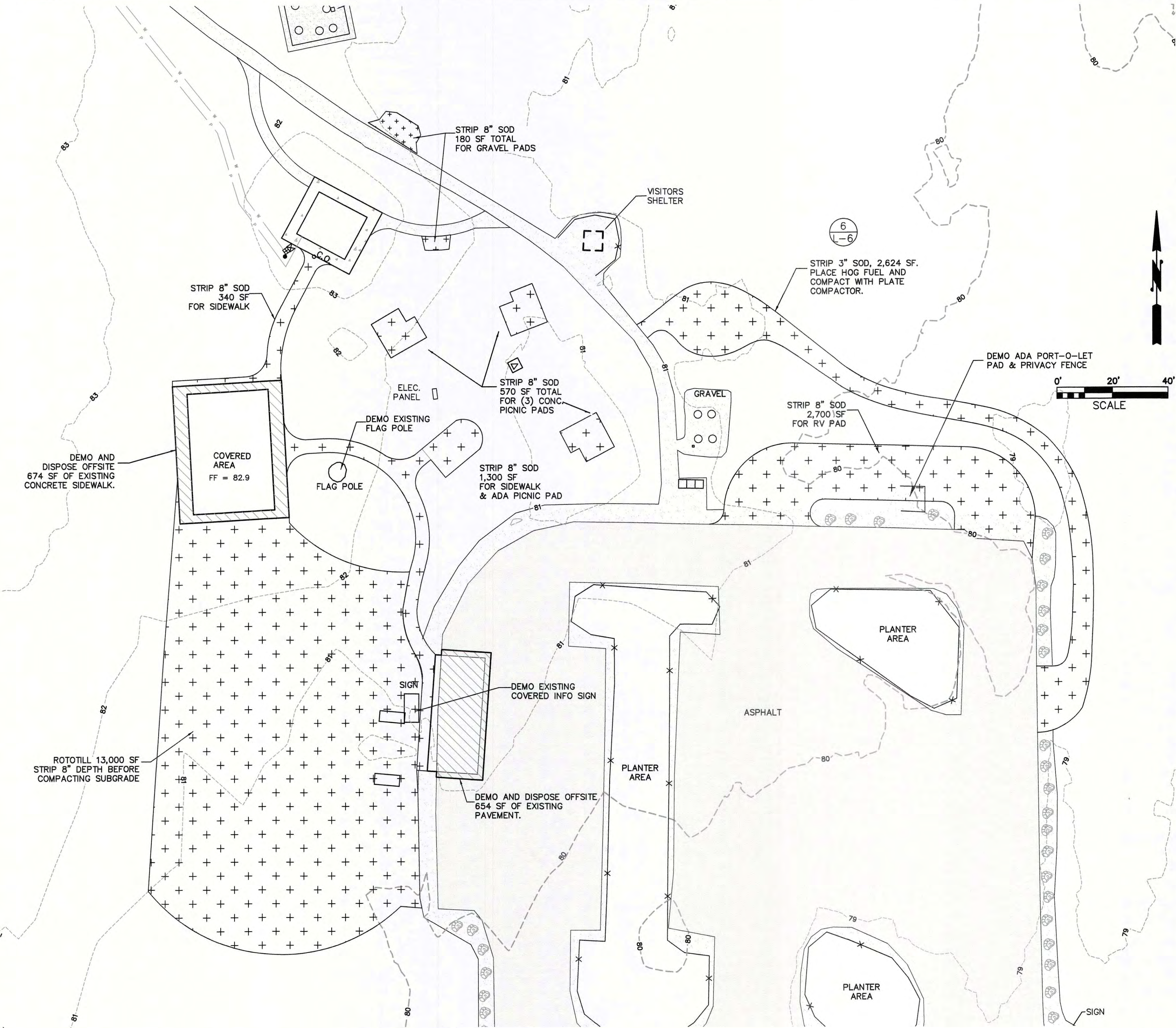
SCALES:
HORIZONTAL : 1" = 100'
VERTICAL : N/A
NOTE: IF THIS SHEET IS LESS
THAN 22"x 34" THEN SHEET
HAS BEEN REDUCED

VETERANS COMMUNITY PARK
& MEMORIAL WALL
SECTIONS 8 & 17, T. 34N., R. 5E., W.M.
JURISDICTION, WASHINGTON

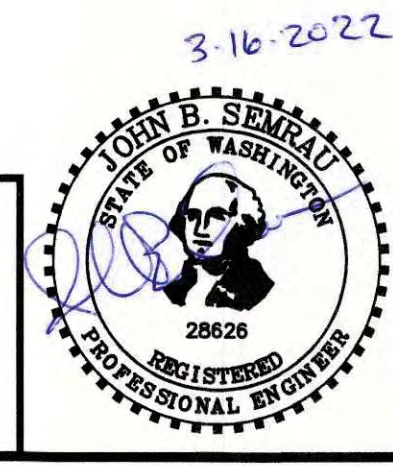
FIELD BK/PG: 324/6-9
DATE: 3/16/22
DRAWING: 5867CS.DWG
JOB NO.: 5867
SHEET: C1

DEMO AND STRIPPING NOTES

- 1. CONTRACTOR SHALL PREPARE TYPE B TOPSOIL ON-SITE. TYPE B TOPSOIL SHALL BE NATIVE SOD AND TOPSOIL THAT HAS BEEN ROTOTILLED PRIOR TO EXCAVATION OR STRIPPING. TOPSOIL SHALL BE FREE OF GRAVEL, CONCRETE, AND WOODY MATERIAL PER SPECIFICATION.
- 2. ALL NATIVE TOPSOIL AND SOD IS TO BE REUSED ON-SITE FOR FILL IN NON-STRUCTURAL AREAS. EXCESS NATIVE TOPSOIL SHALL BE PLACED IN THE ARE AROUND THE NORTHEAST GRAVEL PATH.
- 3. SUBGRADE OF NATIVE SOIL SHALL BE COMPACTED AFTER STRIPPING. PLATE COMPACTOR MAY BE USED UNDER THE SMALLER PICNIC TABLES AND LINEAR SIDEWALKS.



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DEMO PLAN

SCALES:
HORIZONTAL : 1" = 20'
VERTICAL : N/A
NOTE: IF THIS SHEET IS LESS THAN 22"x 34" THEN SHEET HAS BEEN REDUCED

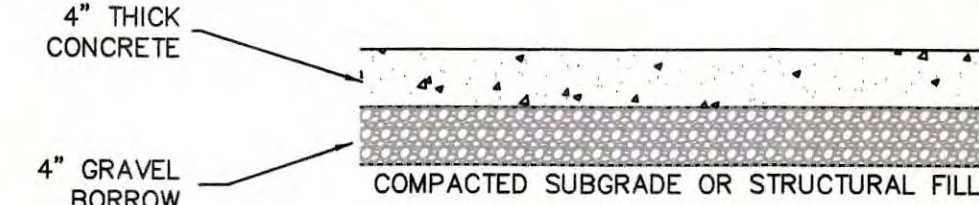
VETERANS COMMUNITY PARK & MEMORIAL WALL
SECTION 8 & 17, T. 35 N., R. 5 E., W.M.
SKAGIT COUNTY, WASHINGTON

FIELD BK/PG:	324/6-9
DATE:	3/16/22
DRAWING:	5867SP.DWG
JOB NO.:	5867
SHEET:	C2B

GENERAL/GRADING

- ALL CONSTRUCTION AND INSTALLATION WORK SHALL CONFORM TO APPLICABLE 2018 STANDARD SPECIFICATIONS AND STANDARD PLANS FOR ROAD, BRIDGE, AND MUNICIPAL CONSTRUCTION PREPARED BY THE WASHINGTON STATE DEPARTMENT OF TRANSPORTATION (WSDOT) AND ACCORDING TO THE RECOMMENDATIONS OF THE MANUFACTURERS OF THE MATERIAL OR EQUIPMENT USED AND IN COMPLIANCE WITH APPLICABLE, FEDERAL, STATE AND/OR COUNTY REGULATIONS, REQUIREMENTS AND STANDARDS, INCLUDING APPLICABLE LABOR LAWS, WASHINGTON INDUSTRIAL SAFETY AND HEALTH ACT, AND OCCUPATIONAL SAFETY AND HEALTH ACT OF 1970.
- CONTRACTOR IS REQUIRED TO PREPARE FOR AND ATTEND A PRE-CONSTRUCTION MEETING PRIOR TO BEGINNING WORK.
- CONTRACTOR SHALL PROVIDE TRAFFIC CONTROL AND SIGNING CONFORMING TO THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD), CURRENT EDITION AS MAY BE REQUIRED AT HELMICK ROAD.
- LOCATIONS OF EXISTING UTILITIES SHOWN HEREON ARE APPROXIMATE, AND ARE NOT NECESSARILY COMPLETE. THE CONTRACTOR SHALL INDEPENDENTLY VERIFY THE ACCURACY OF ALL UTILITY LOCATIONS SHOWN, AND SHALL FURTHER DISCOVER AND AVOID ANY OTHER UTILITIES NOT SHOWN HEREON WHICH MAY BE AFFECTED BY THE IMPLEMENTATION OF THIS PLAN. IF CONFLICTS WITH EXISTING UTILITIES ARISE DURING CONSTRUCTION, THE CONTRACTOR SHALL NOTIFY THE ENGINEER AND ANY CHANGES REQUIRED SHALL BE APPROVED BY THE DISTRICT PRIOR TO COMMENCEMENT OF RELATED CONSTRUCTION ON THE PROJECT. IF EXISTING UTILITIES ARE DAMAGED BY THE CONTRACTOR, SAID UTILITIES SHALL BE REPAIRED OR REPLACED AT NO ADDITIONAL COST TO THE OWNER OR ENGINEER.
- CONTRACTOR SHALL UTILIZE THE ONE CALL SYSTEM FOR UTILITY UNDERGROUND LOCATION AND ABIDE BY THE REQUIREMENTS THEREOF. CALL 1-800-424-5555.
- CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS AND APPROVALS AND SHALL ABIDE BY THE CONDITIONS AND REQUIREMENTS RELATED TO SAID PERMITS AND APPROVALS.
- OTHER UTILITIES MAY BE WORKING WITHIN THE LIMITS OF THE PROJECT, INCLUDING, BUT NOT LIMITED TO, PUGET SOUND ENERGY.
- ALL WORK SHALL BE STAKED BY THE ENGINEER'S SURVEYOR PRIOR TO STARTING CONSTRUCTION. THE CONTRACTOR SHALL PROTECT ALL STAKING AND SURVEY MARKERS DURING THE CONSTRUCTION PERIOD. THE CONTRACTOR SHALL NOTIFY THE ENGINEER A MINIMUM OF 2 WORKING DAYS IN ADVANCE OF ALL REQUESTS FOR CONSTRUCTION STAKING.
- AN APPROVED COPY OF THESE CONSTRUCTION DRAWINGS MUST BE ON THE JOB SITE WHENEVER CONSTRUCTION IS IN PROGRESS. THE CONTRACTOR SHALL PROVIDE A COMPLETE SET OF CERTIFIED AS-CONSTRUCTED DRAWINGS TO THE ENGINEER UPON COMPLETION OF THE CONSTRUCTION.
- CONSTRUCTION REVIEW SHALL BE PERFORMED BY THE ENGINEER AND THEIR APPOINTED REPRESENTATIVES. THE CONTRACTOR SHALL PROVIDE 24 HOURS NOTICE IN ADVANCE OF ANY CONSTRUCTION REVIEW OR SPECIAL INSPECTIONS TO BOTH THE ENGINEER AND THE INSPECTOR. THESE MAY BE SCHEDULED AT THE WEEKLY SITE MEETING.
- NO PART OF THE CONSTRUCTION SHALL BE COVERED, CONCEALED OR PUT INTO USE UNTIL IT HAS BEEN INSPECTED AND ACCEPTED BY THE DISTRICT AND THE ENGINEER.
- BACKFILL MATERIAL FOR TRENCHES LOCATED IN ROAD RIGHT-OF-WAYS SHALL CONFORM TO WSDOT SECTION 9-03.14(2) SELECT BORROW. BACKFILL MATERIAL SHALL BE PLACED IN LIFTS NOT TO EXCEED EIGHT (8) INCHES LOOSE THICKNESS AND COMPACTED TO 95% OF MAXIMUM DENSITY (ASTM 1557). EACH LIFT SHALL BE COMPACTED PRIOR TO PLACEMENT OF SUCCESSIVE LIFTS.
- BACKFILL MATERIAL FOR TRENCHES LOCATED OUTSIDE OF ROAD RIGHT-OF-WAYS MAY BE NATIVE MATERIAL WITH WRITTEN APPROVAL OF THE ENGINEER. BACKFILL MATERIAL SHALL BE PLACED IN LIFTS NOT TO EXCEED TWELVE (12) INCHES LOOSE THICKNESS AND COMPACTED TO 90% OF MAXIMUM DRY DENSITY. (ASTM 1557). EACH LIFT SHALL BE COMPACTED PRIOR TO PLACEMENT OF SUCCESSIVE LIFTS. (ALSO SEE OTHER NOTES).
- THE CONTRACTOR SHALL MAINTAIN THE SITE IN A NEAT AND ORDERLY CONDITION. ALL REFUSE, DEBRIS, AND OTHER OBJECTIONABLE MATERIAL SHALL BE REMOVED AT LEAST WEEKLY, OR MORE OFTEN IF DIRECTED BY THE ENGINEER. ROUTINE AND FINAL CLEANUP ARE TO BE AN INTEGRAL PART OF ALL BID ITEMS.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL CONTRACTOR FURNISHED MATERIAL. ALL SUCH MATERIAL WHICH IS DEFECTIVE BY MANUFACTURE OR HAS BEEN DAMAGED IN TRANSIT OR HAS BEEN DAMAGED AFTER DELIVERY SHALL BE REPLACED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE SAFE STORAGE OF ALL MATERIALS FURNISHED AND ACCEPTED UNTIL IT HAS BEEN INCORPORATED IN THE COMPLETED PROJECT.
- SUBSTANTIAL COMPLETION WILL BE DETERMINED BY THE ENGINEER AFTER THE WORK ON THE LEVEE IS COMPLETED AND THE TRAIL CAN BE OPENED AND REMAIN OPEN TO THE PUBLIC.
- DATUM - NAVD 88. SEE PROJECT BENCHMARK.

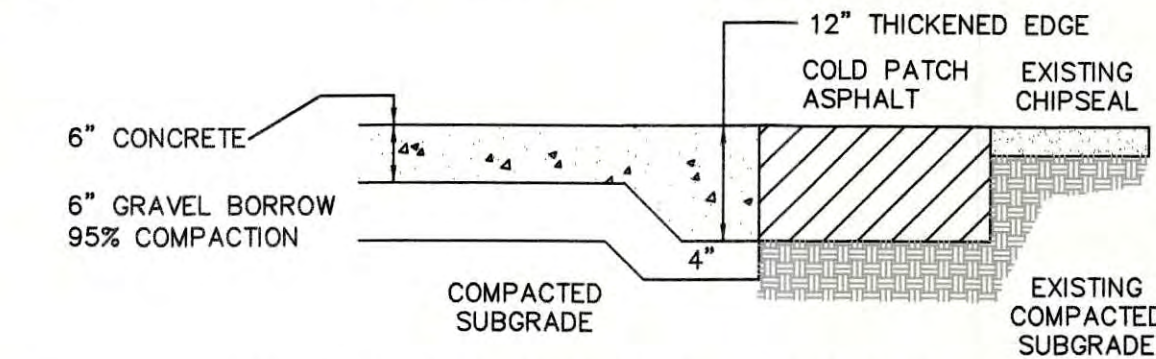
(ALSO SEE OTHER NOTES)



A
C3

CONCRETE SIDEWALK DETAIL

(NOT TO SCALE)



B
C3

ADA PARKING SLAB SECTION (TYP.)

(NOT TO SCALE)

- SEE ARCHITECT SPECIFICATIONS FOR ACCENT AND FINISH.
- SEE ARCHITECT PLANS FOR SCORING LOCATION AND JOINTS

1 2



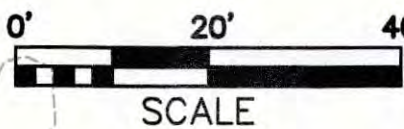
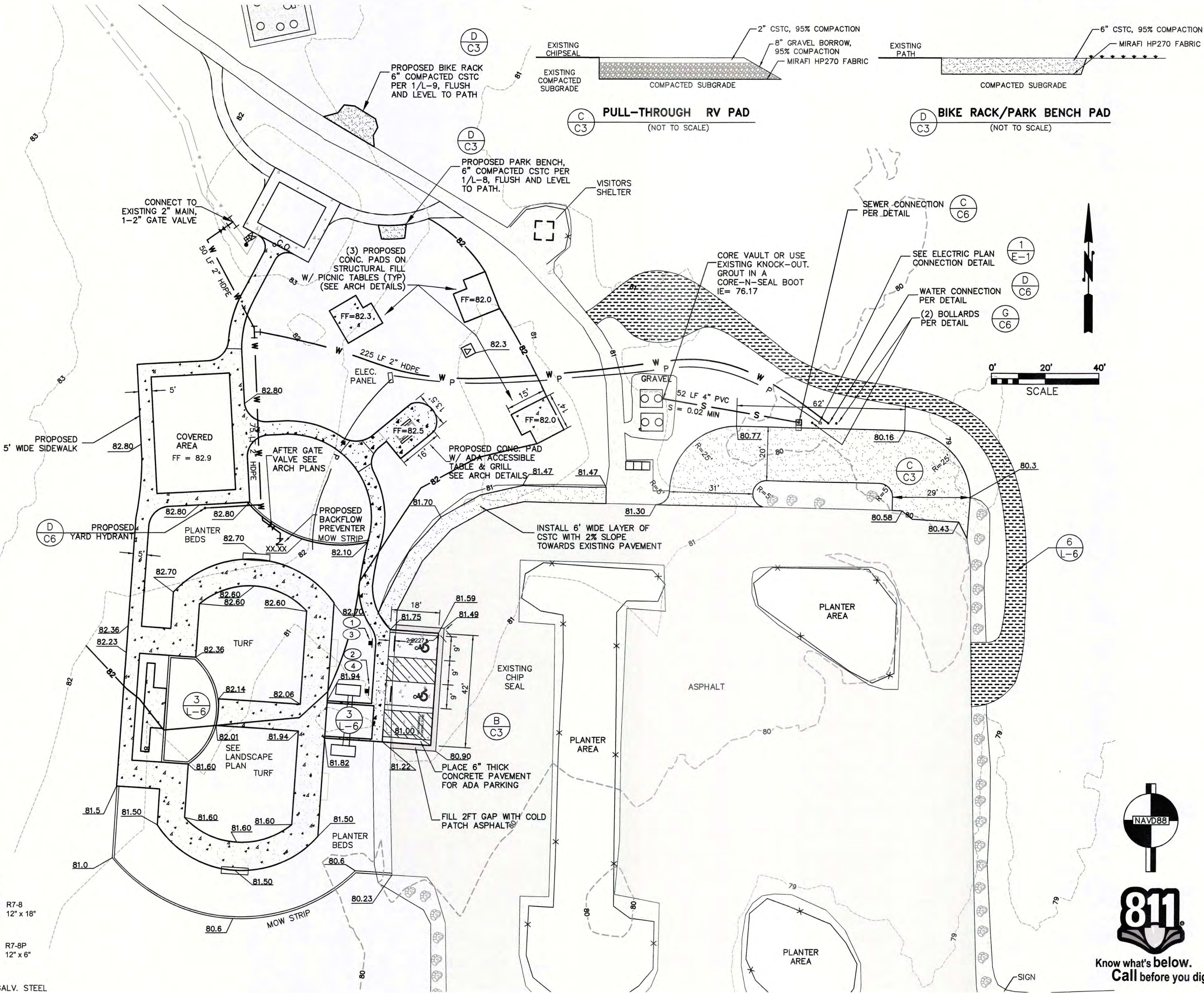
R7-8
12" x 18"

3 4



R7-8P
12" x 6"

- SIGNS MOUNTED TO GALV. STEEL POSTS.
- MIN. 60" FROM GRADE TO BOTTOM OF RESERVED PARKING SIGN



Know what's below.
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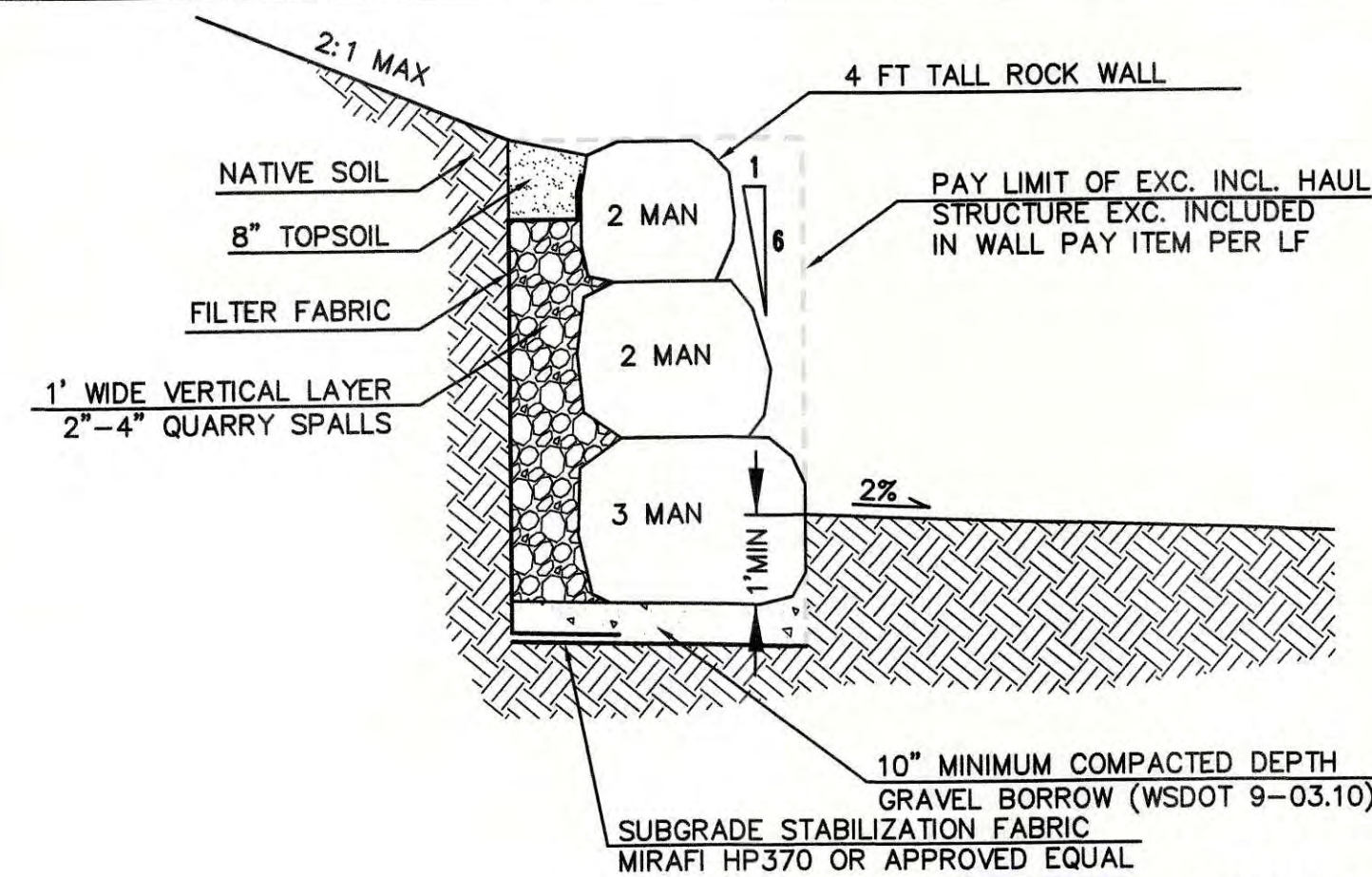
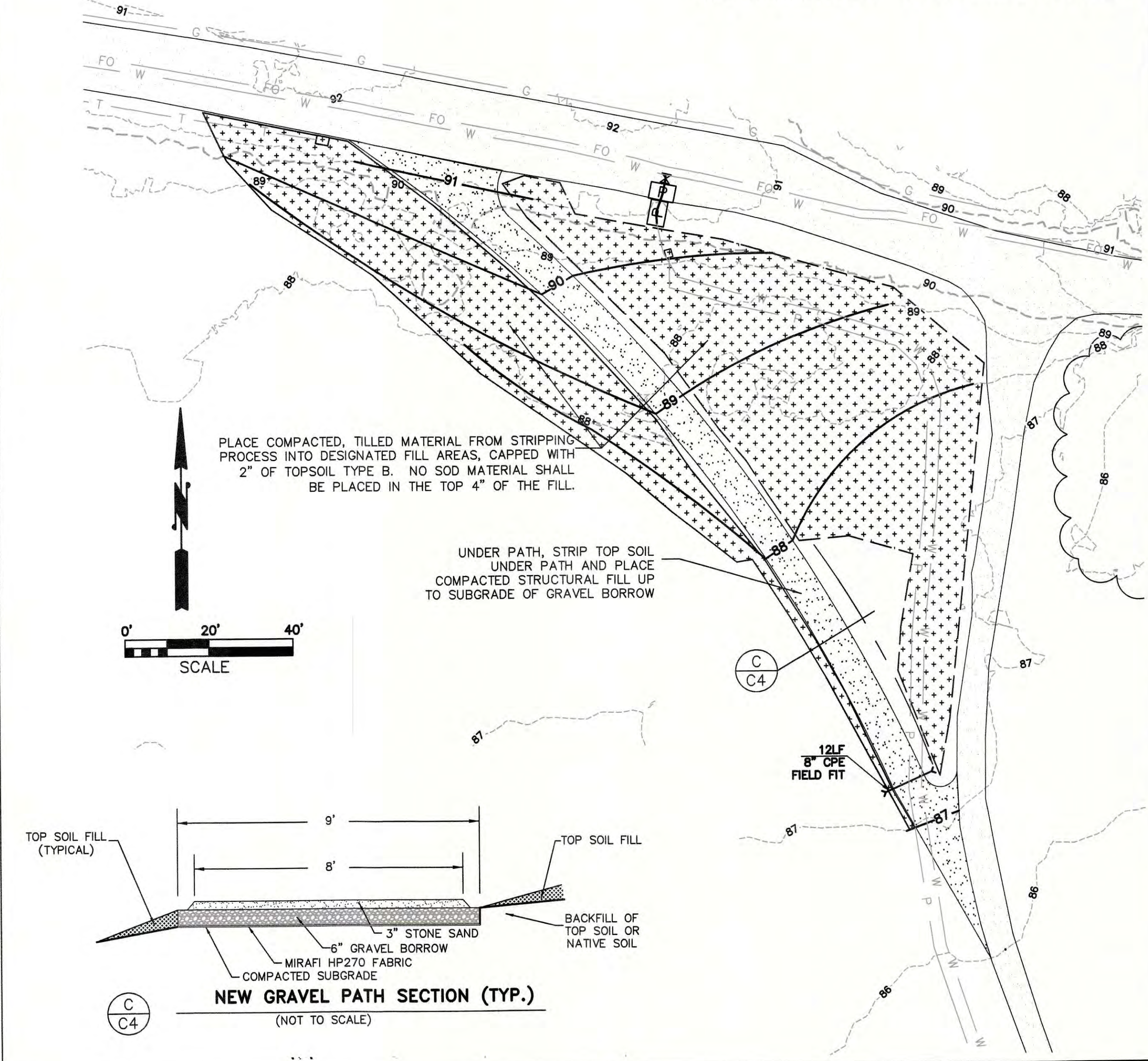
GRADING
PLAN

SCALES:
HORIZONTAL : 1" = 20'
VERTICAL : N/A
NOTE: IF THIS SHEET IS LESS THAN 22"x 34" THEN SHEET HAS BEEN REDUCED

VETERANS COMMUNITY PARK
& MEMORIAL WALL
SECTION 8 & 17, T. 35 N., R. 5 E., W.M.
SKAGIT COUNTY, WASHINGTON

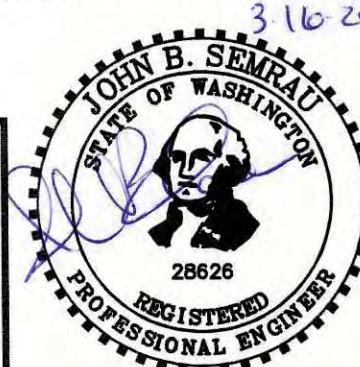
FIELD BK/PG:	324/6-9
DATE:	3/16/22
DRAWING:	5867SP.DWG
JOB NO.:	5867
SHEET:	C3

NORTHEAST GRAVEL PATH



ROCKERY WALL NOTES:

- ALL ROCKERIES ARE TO BE INSTALLED IN ACCORDANCE WITH USDOT/FHWA 2006 GENERAL ROCKERY CONSTRUCTION GUIDELINES.
- ROCKERY BACKFILL QUARRY SPALLS AND NATIVE SOIL INCLUDED IN WALL PAY ITEM PER LF.
- ROCK SHALL BE PLACED TO DECREASE IN SIZE WITH INCREASING WALL HEIGHT.
- THE LONG DIMENSION OF THE ROCK SHALL EXTEND PERPENDICULAR TO THE ROCK FACE TO PROVIDE MAXIMUM STABILITY.
- ROCKS SHALL BE PLACED TO AVOID CONTINUOUS JOINT PLANES IN VERTICAL OR LATERAL DIRECTIONS. EACH ROCK SHALL BEAR ON TWO OR MORE ROCKS BELOW IT, WITH GOOD FLAT TO FLAT CONTACT.
- 2"-4" QUARRY SPALLS SHALL BE FREE OF ORGANICS WITH LESS 5 PERCENT FINES PASSING 200 SIEVE.



NO.	DATE	REVISION	BY	REV.

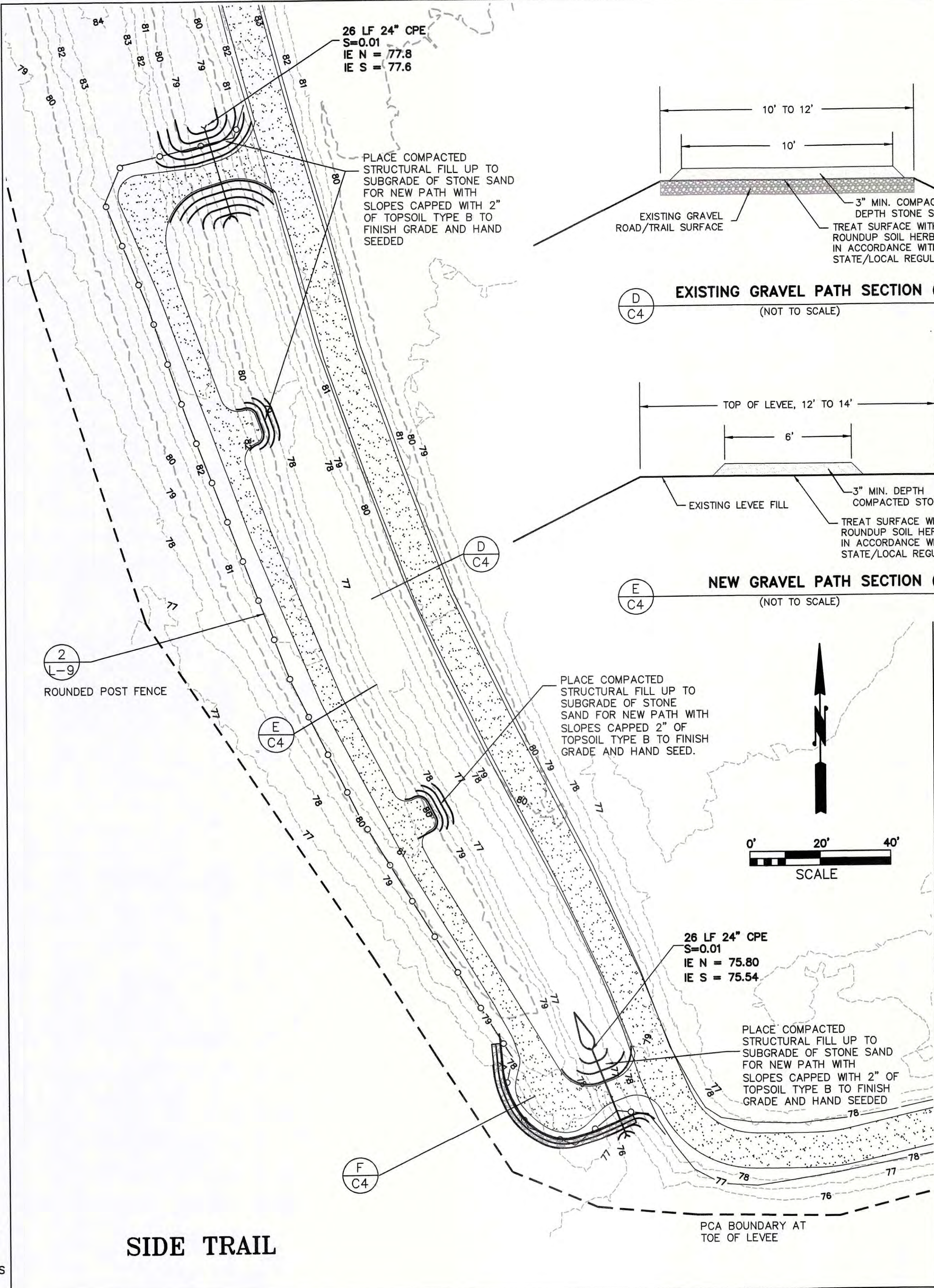
GRADING PLAN

SCALES:
HORIZONTAL : 1" = 20'
VERTICAL : N/A

NOTE: IF THIS SHEET IS LESS THAN 22"x 34" THEN SHEET HAS BEEN REDUCED

VETERANS COMMUNITY PARK
& MEMORIAL WALL
SECTION 8 & 17, T. 35 N., R. 5 E., W.M.
SKAGIT COUNTY, WASHINGTON

FIELD BK/PG:	324/6-9
DATE:	3/16/22
DRAWING:	5867SP.DWG
JOB NO.:	5867
SHEET:	C4

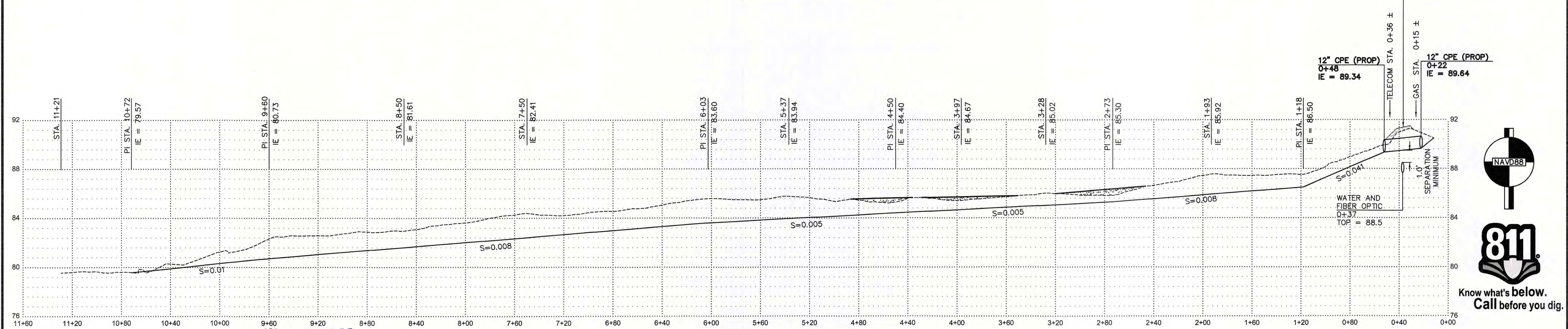
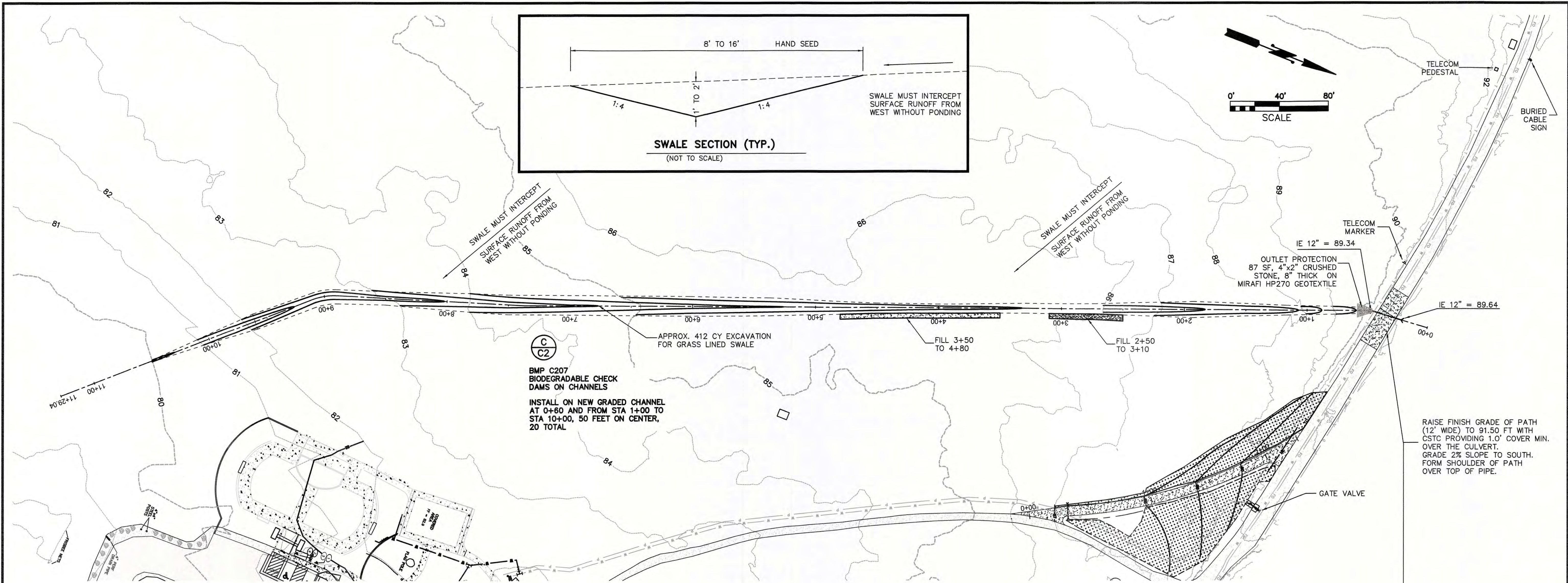


GRAVEL PATH NOTES

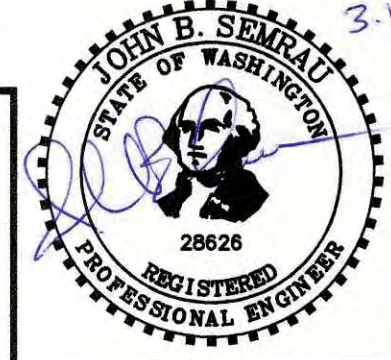
- CONTRACTOR SHALL NOT BEGIN GRAVEL PATH CONSTRUCTION UNTIL ALL THE CULVERT, ROCK WALL, AND FILL WORK COMPLETED ON THE SIDE TRAIL AREA.
- CONTRACTOR SHALL TREAT GRAVEL PATH AREAS WITH HERBICIDE IN ACCORDANCE WITH THE MANUFACTURER RECOMMENDATIONS PRIOR TO PLACEMENT OF STONE SAND SURFACING.
- CONTRACTOR SHALL USE A MINIMUM 5 TON VIBRATORY ROLLER (54" WIDTH) TO COMPACT THE STONE SAND TO 95%.



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GRADING PLAN

SCALES:
HORIZONTAL : 1" = 40'
VERTICAL : 1" = 4'

NOTE: IF THIS SHEET IS LESS THAN 22"x 34" THEN SHEET HAS BEEN REDUCED

VETERANS COMMUNITY PARK & MEMORIAL WALL
SECTION 8 & 17, T. 35 N., R. 5 E., W.M.
SKAGIT COUNTY, WASHINGTON

FIELD BK/PG:	324/6-9
DATE:	3/16/22
DRAWING:	5867SP.DWG
JOB NO.:	5867
SHEET:	C5



WATER LINE NOTES

1. ALL WORK SHALL CONFORM WITH THE 2018 STANDARD SPECIFICATIONS AND PLANS FOR ROAD, BRIDGE AND MUNICIPAL CONSTRUCTION, WASHINGTON STATE DEPARTMENT OF TRANSPORTATION, HEREINAFTER CALLED "WSDOT", AND ACCORDING TO THE RECOMMENDATIONS OF THE MANUFACTURERS OF THE MATERIAL OR EQUIPMENT USED AND IN COMPLIANCE WITH APPLICABLE FEDERAL, STATE AND/OR COUNTY REGULATIONS, REQUIREMENTS AND STANDARDS, INCLUDING STANDARDS AND LAWS, WASHINGTON INDUSTRIAL SAFETY AND HEALTH ACT, AND OCCUPATIONAL SAFETY AND HEALTH ACT OF 1970.
2. CONTRACTOR SHALL NOTIFY AND COORDINATE WITH SKAGIT COUNTY PARKS AND RECREATION (PARKS) PRIOR TO START OF CONSTRUCTION AND PRIOR TO ANY WATER SHUT-OFF OR TURN-ON AFFECTING THE WATER SYSTEM. CONTRACTOR SHALL NOT OPERATE ANY VALVES WITHOUT APPROVAL AND COOPERATION WITH PARKS.
3. ALL MATERIALS ARE TO BE APPROVED BY THE ENGINEER PRIOR TO CONSTRUCTION.
4. HDPE PIPE SHALL MEET THE REQUIREMENTS OF AWWA C-906. FITTINGS FOR HDPE PIPE SHALL MEET THE REQUIREMENT OF AWWA C-906.
5. ALL VALVES SHALL BE RESILIENT WEDGE GATE VALVES. ALL VALVES SHALL BE PROVIDED WITH CAST IRON VALVE BOXES.
6. ALL WATER INSTALLATIONS REQUIRE A 36" MINIMUM COVER AND A 48" MAXIMUM TRENCH DEPTH TO ANTICIPATED FINISH GRADE.
7. MINIMUM 1 FOOT VERTICAL AND 5 FOOT HORIZONTAL CLEARANCE BETWEEN WATER LINE AND ALL OTHER UTILITIES. HORIZONTAL SEPARATION BETWEEN WATER LINE AND SANITARY SEWER OR STORM DRAINS SHALL BE 10 FEET MINIMUM EXCEPT AS NOTED ON THE PLANS.
8. BEDDING MATERIAL FOR PVC PIPE SHALL BE APPROVED PIPE BEDDING PER WSDOT SPECIFICATIONS 9-03.16.
9. BACKFILL TRENCHES IN PAVEMENT AREAS WITH GRAVEL BORROW PER WSDOT SPECIFICATION 9-03.14 COMPACTED TO 95% OF MAXIMUM DENSITY PER ASTM 1557.
10. AFTER THE PIPE HAS BEEN LAID, ALL NEWLY LAID PIPE OR ANY VALVED SECTION THEREOF SHALL BE SUBJECTED TO A HYDROSTATIC PRESSURE TEST IN CONFORMANCE WITH ASTM F2164-21.
TEST DATE _____ TIME STOP _____ TEST PRESSURE _____ TIME START _____
MAKEUP WATER _____ PRESSURE DROP _____
11. DISINFECTION AND FLUSHING OF THE WATER LINES TO BE PER WSDOT SPECIFICATIONS. FLUSH AFTER LETTING SOAK A MINIMUM OF 24 HOURS AND AS PER WSDOT STANDARDS. USE DECHLORINATION EQUIPMENT WHEN FLUSHING OR FLUSH INTO SANITARY SEWER MANHOLE. DO NOT FLUSH INTO OR ALLOW TO DRAIN INTO ANY CREEK OR SURROUNDING CATCH BASINS.
12. COORDINATE ALL SHUTDOWN, FLUSHING AND HEALTH SAMPLES WITH SKAGIT PARKS.
13. A PRE-CONSTRUCTION CONFERENCE MUST BE SCHEDULED BY THE CONTRACTOR WITH SKAGIT PARKS PRIOR TO CONSTRUCTION.
14. CONTRACTOR SHALL MAKE ALL PAVEMENT REPAIR AND PERFORM ALL CLEANUP TO THE SATISFACTION OF SKAGIT PARKS.
15. ALL SALVAGED EXISTING MATERIALS ARE TO BE REMOVED BY THE CONTRACTOR.
16. WHEN INSTALLING WATER PIPELINE ACROSS EXISTING OR PROPOSED SANITARY SEWER, A FULL LENGTH OF PIPE SHALL BE INSTALLED WITH MID SPAN OR PIPE OVER THE SEWER.
17. THE EXISTING UNDERGROUND UTILITIES SHOW ARE BASED ON UTILITY-SUPPLIED CONSTRUCTION DRAWINGS. THE CONTRACTOR SHALL CONTRACT WITH AN INDEPENDENT COMPANY TO LOCATE THE EXISTING UNDERGROUND UTILITIES BEFORE BEGINNING INSTALLATION OF THE WATER PIPELINE. THE COST FOR LOCATING THE UNDERGROUND UTILITIES SHALL BE INCLUDED IN THE CONTRACTORS COST ESTIMATE TO SKAGIT PARKS.

EARTHWORK NOTES

1. CLEARING, GRUBBING AND CLEANUP SHALL CONFORM TO WSDOT 2-01, EXCEPT THAT GRUBBING LIMITS MAY NOT BE STAKED BY THE ENGINEER. CONTRACTOR SHALL CLEAR AND GRUB ALL AREAS WHICH MAY BE AFFECTED BY WALKWAYS OR GENERAL CONSTRUCTION. GRUBBED MATERIAL SHALL BE BROKEN DOWN BY ROTO TILLING INTO SMALL PIECES, PLACED INTO FILL AREAS, AND CAPPED WITH 2" OF TOPSOIL. NO SOD MATERIAL SHALL BE PLACED IN THE TOP 4" OF THE FILL.
2. THE CONTRACTOR SHALL COMPLETELY GRADE THE SITE AND MAKE CUTS AND FILLS REQUIRED TO COMPLETELY PREPARE THE SITE SUITABLE TO SERVE THE FINAL GRADES AND TYPICAL SECTIONS ESTABLISHED IN THE PLANS AND IN ACCORDANCE WITH ALL APPLICABLE SECTIONS OF WSDOT DIVISION 2.
3. SUBGRADE PREPARATION SHALL BE IN CONFORMANCE WITH WSDOT SECTION 2-06, EXCEPT THAT ASTM 1557 SHALL BE THE STANDARD FOR COMPACTION TESTS.
4. STRUCTURE EXCAVATION SHALL BE IN CONFORMANCE WITH WSDOT SECTION 2-09.
5. DITCH AND CHANNEL EXCAVATION SHALL BE IN CONFORMANCE WITH WSDOT SECTION 2-10.
6. TRIMMING AND CLEANUP SHALL BE IN CONFORMANCE WITH WSDOT SECTION 2-11.
7. WHEN SITE CONDITIONS REQUIRE STRUCTURAL FILL TO BE PLACED OVER COMPACTED EXISTING SUBGRADE TO REACH PLAN SUBGRADE ELEVATION, GRAVEL BORROW MEETING THE REQUIREMENTS OF SECTION 9-03.14(1) AND COMPACTED ACCORDING TO SECTIONS 2-03.3(14)c and 2-03.3(14)d SHALL BE USED AS STRUCTURAL FILL. THE CONDITIONS INCLUDE AREAS UNDER PICNIC TABLE PADS, SIDEWALKS, PARKING PAD, RV PAD, AND FILL AREAS OVER NEW CULVERTS.

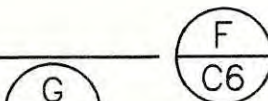
STANDARD PLANS & DETAILS

1. WHERE APPLICABLE PER THESE PLANS, UTILIZE WSDOT STANDARD DETAILS. THESE INCLUDE, BUT MAY NOT BE LIMITED TO:

PER PLAN AS NEEDED:

CEMENT CONCRETE SIDEWALK

F-30.10-04



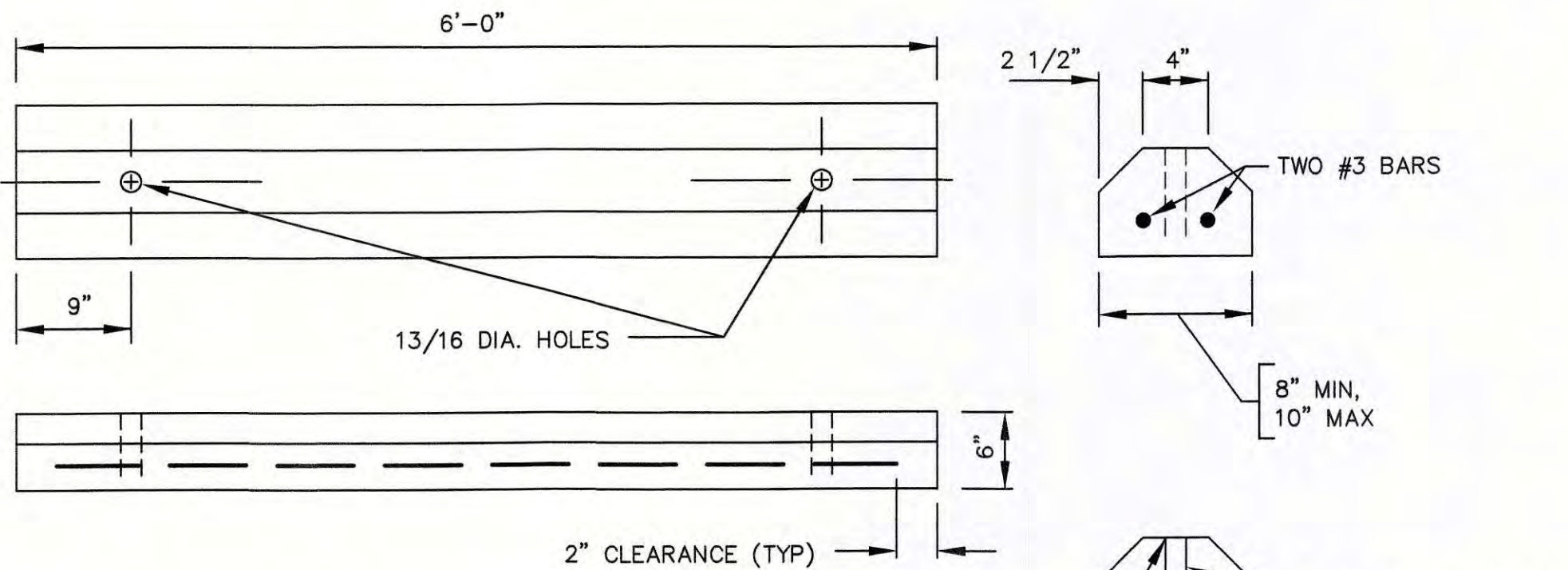
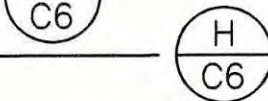
BOLLARD TYPE 2

H-60.20-01



PARKING PLACE LAYOUT

M-17.10-02

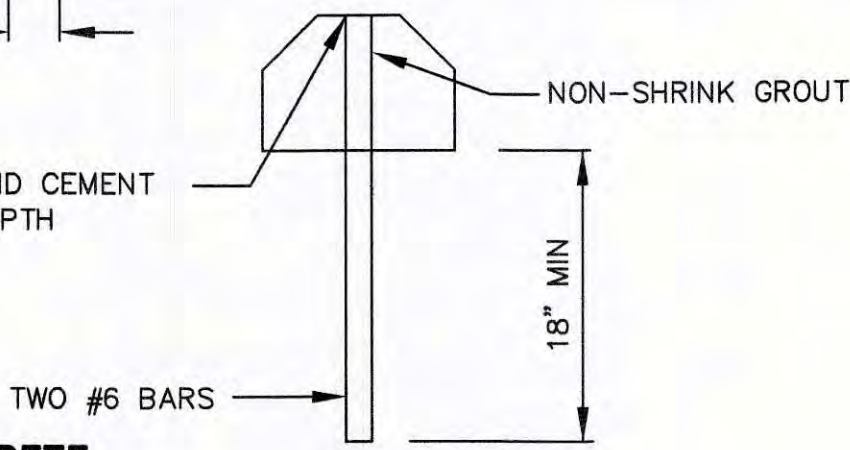


PRECAST CEMENT CONCRETE BUMPER CURB
WSDOT STANDARD PLAN m17.10-02_e

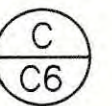
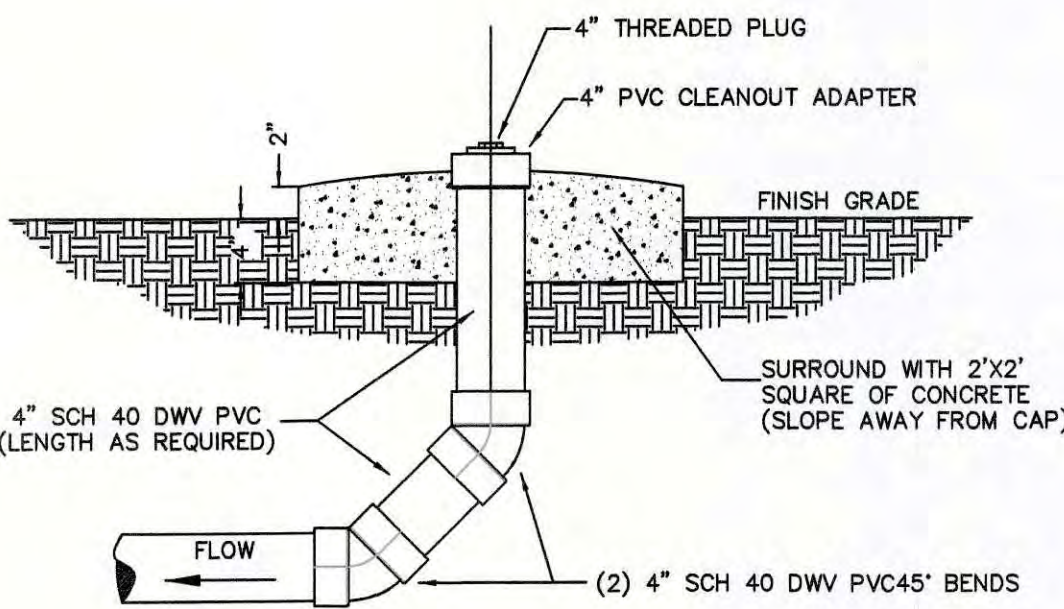


PRECAST CEMENT CONCRETE
BUMPER CURB
(NOT TO SCALE)

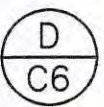
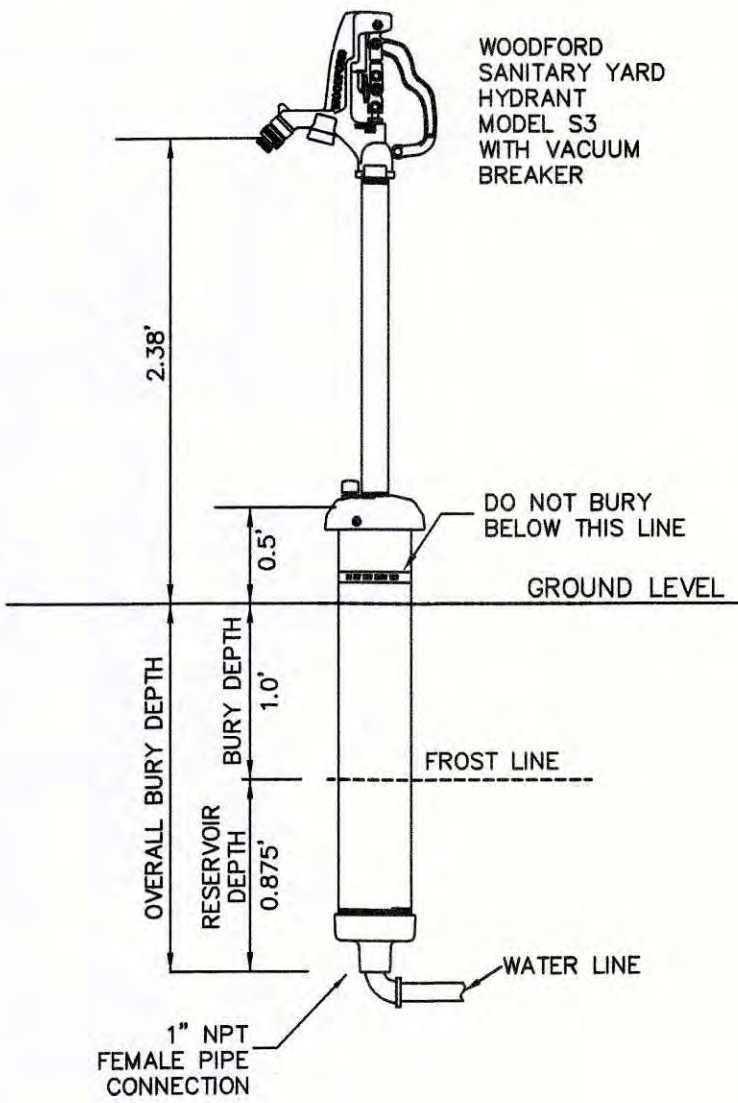
3:1 SAND AND CEMENT
GROUT 1" DEPTH



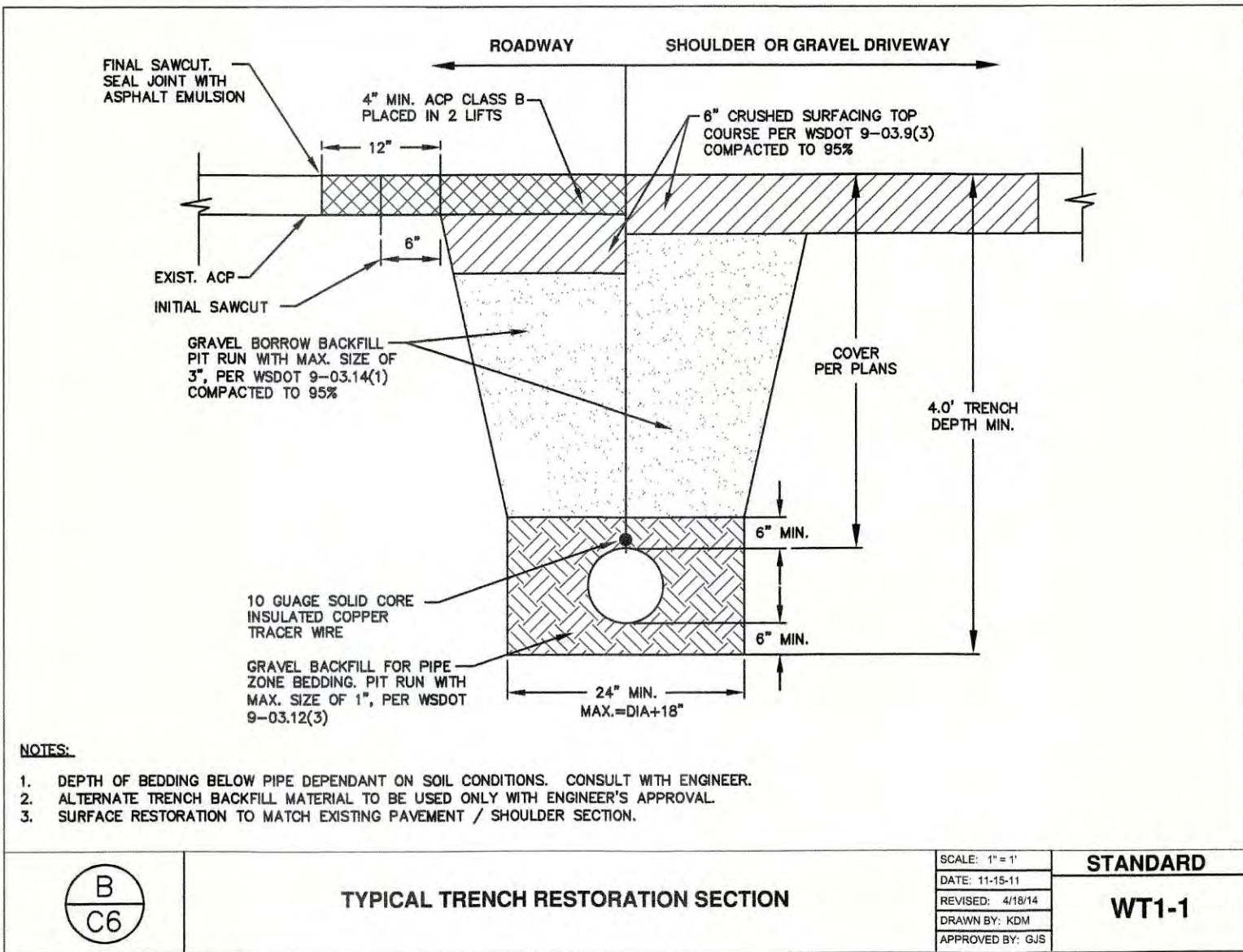
ATTACHMENT DETAIL



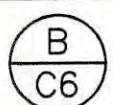
4" RV SEWER HOOK-UP
(NOT TO SCALE)



RV HYDRANT
(NOT TO SCALE)



- NOTES:
1. DEPTH OF BEDDING BELOW PIPE DEPENDANT ON SOIL CONDITIONS. CONSULT WITH ENGINEER.
 2. ALTERNATE TRENCH BACKFILL MATERIAL TO BE USED ONLY WITH ENGINEER'S APPROVAL.
 3. SURFACE RESTORATION TO MATCH EXISTING PAVEMENT / SHOULDER SECTION.



TYPICAL TRENCH RESTORATION SECTION

SCALE: 1" = 1'
DATE: 11/15/11
REVISED: 4/18/14
DRAWN BY: KDM
APPROVED BY: GJS

STANDARD
WT1-1



Know what's below.
Call before you dig.

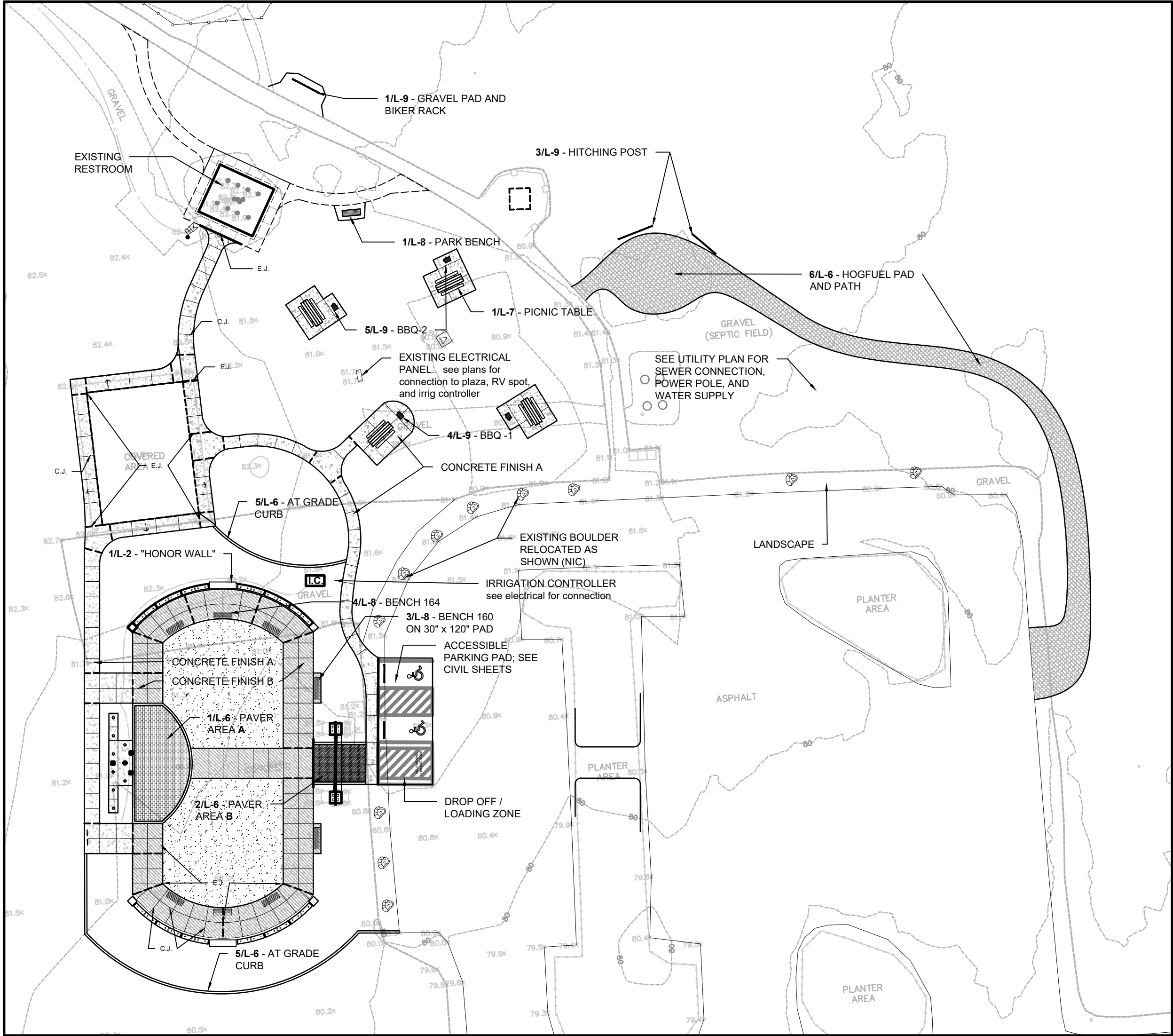
NO.	DATE	REVISION	BY	REV.

NOTES
& DETAILS

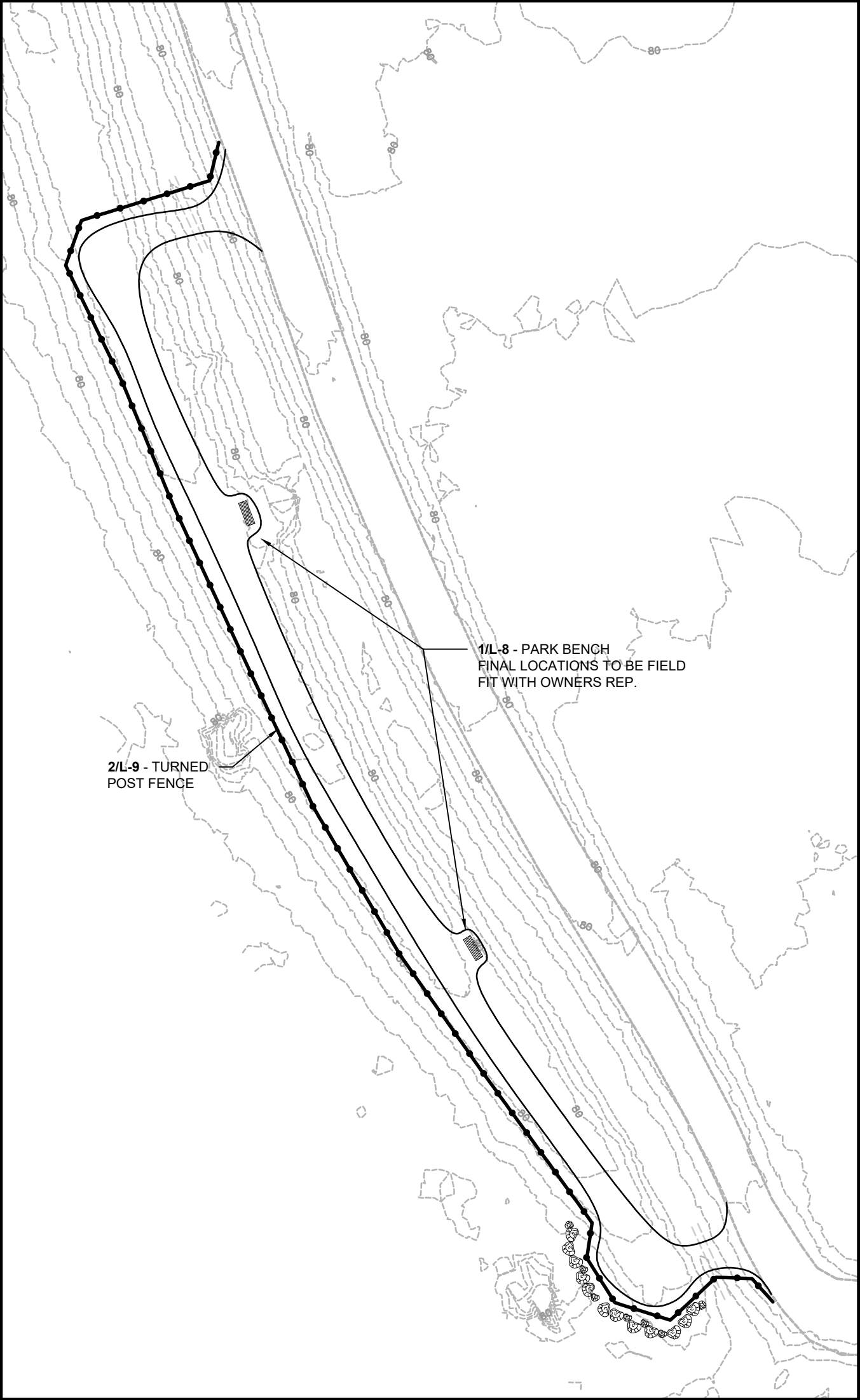
SCALES:
HORIZONTAL : 1" = 20'
VERTICAL : N/A
NOTE: IF THIS SHEET IS LESS
THAN 22"x 34" THEN SHEET
HAS BEEN REDUCED

VETERANS COMMUNITY PARK
& MEMORIAL WALL
SECTION 8 & 17, T. 35 N., R. 5 E., W.M.
SKAGIT COUNTY, WASHINGTON

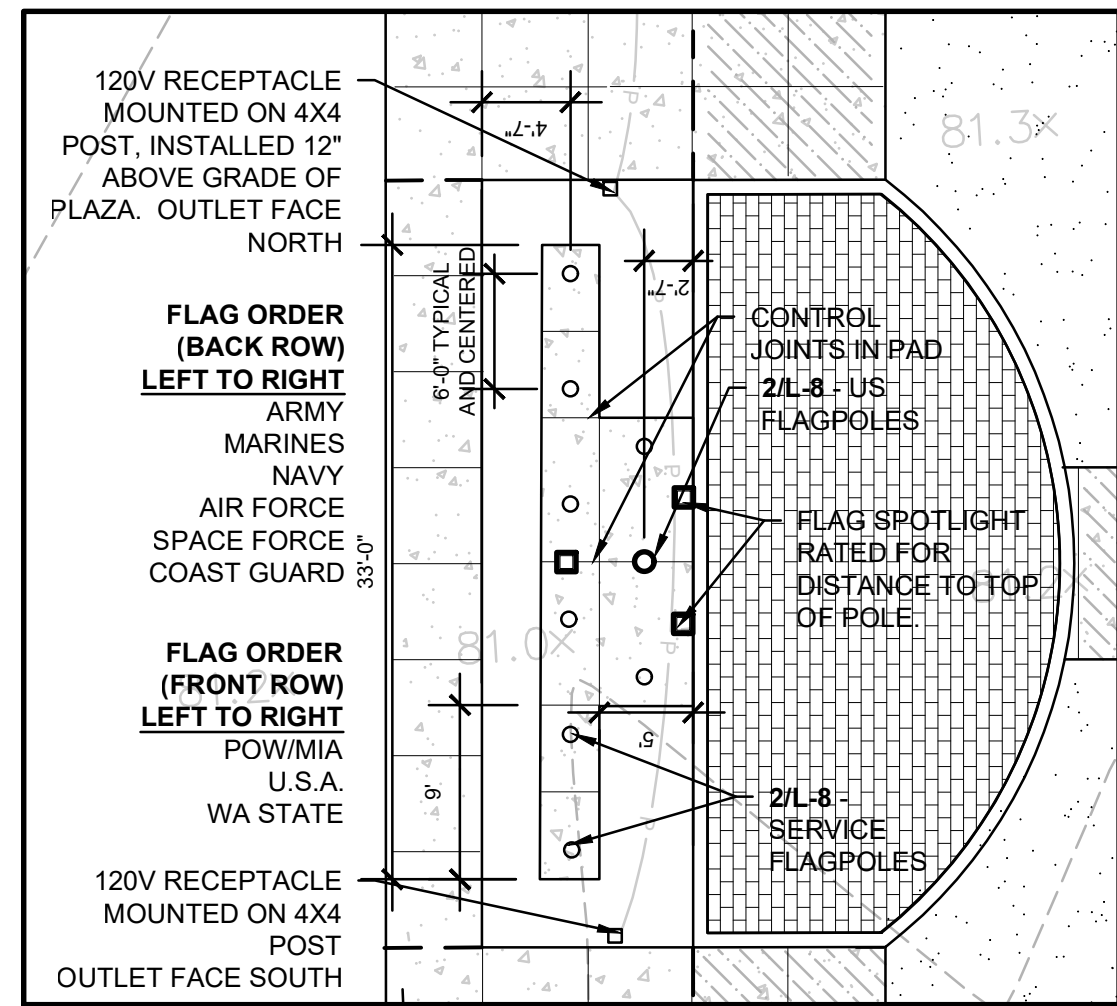
FIELD BK/PG: 324/6-9
DATE: 3/16/22
DRAWING: 5867SP.DWG
JOB NO.: 5867
SHEET: C6



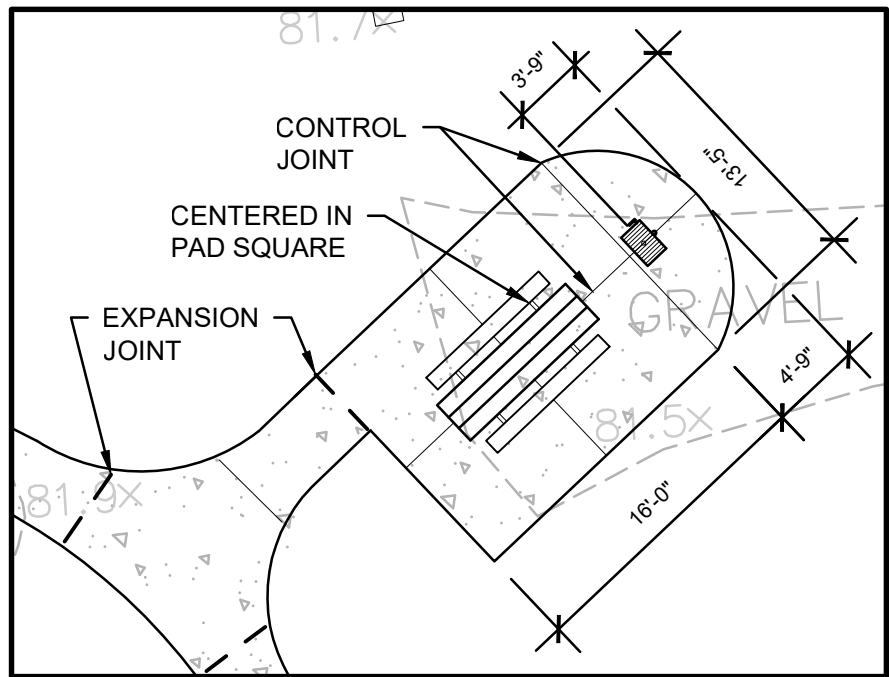
SITE PLAN AND FEATURES AT PLAZA
1" = 30'-0" (CHECK SCALE BAR FOR ACCURACY)



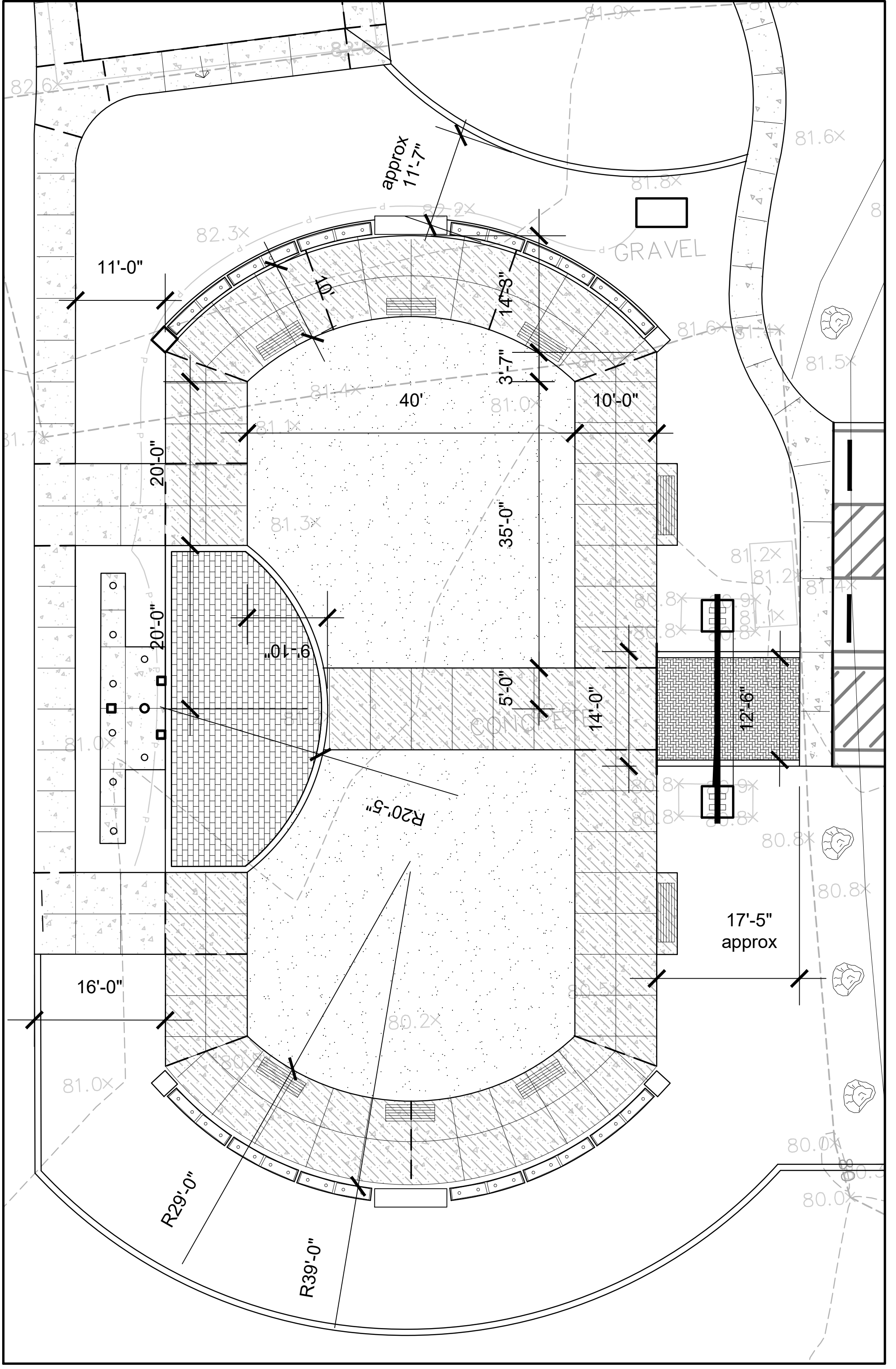
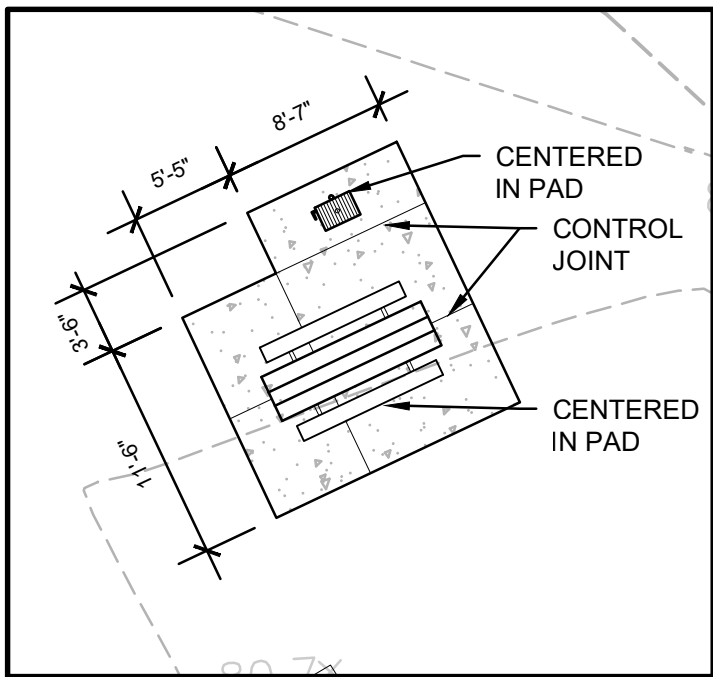
SITE PLAN AND FEATURES AT SIDE TRAIL
1" = 30'-0" (CHECK SCALE BAR FOR ACCURACY)



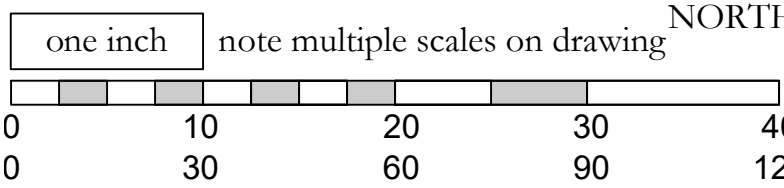
FLAG AND SPOTLIGHT LAYOUT
1" = 10'-0" (CHECK SCALE BAR FOR ACCURACY)



PICNIC TABLE PAD LAYOUT
1" = 10'-0" (CHECK SCALE BAR FOR ACCURACY)



PLAZA LAYOUT
1" = 10'-0" (CHECK SCALE BAR FOR ACCURACY)



NO.	DATE	REVISION	BY	REV.
1	8.16.21	permit set	pd	pd
2	3.16.22	bid set	pd	pd

prepared for:
Skagit County Parks and Recreation
Continental Way
Mount Vernon, WA 98083
contact: Brian Adams

prepared by:
eccosDesign
Landscape Architecture and Planning
Mount Vernon, WA 98273
p. 360.419.7400
www.eccosdesign.com

STATE OF WASHINGTON
REGISTERED
LANDSCAPE ARCHITECT
PATRICK DYLAN
CERTIFICATE NO. 793

Northern State Recreation Area

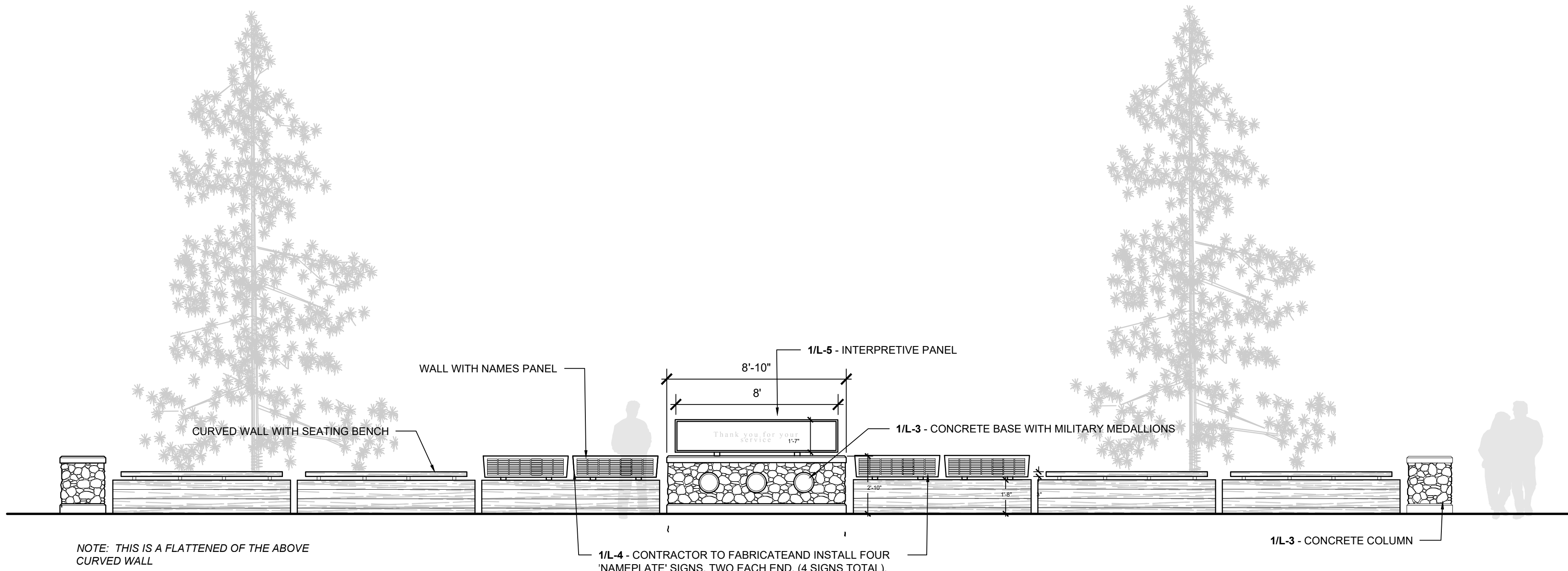
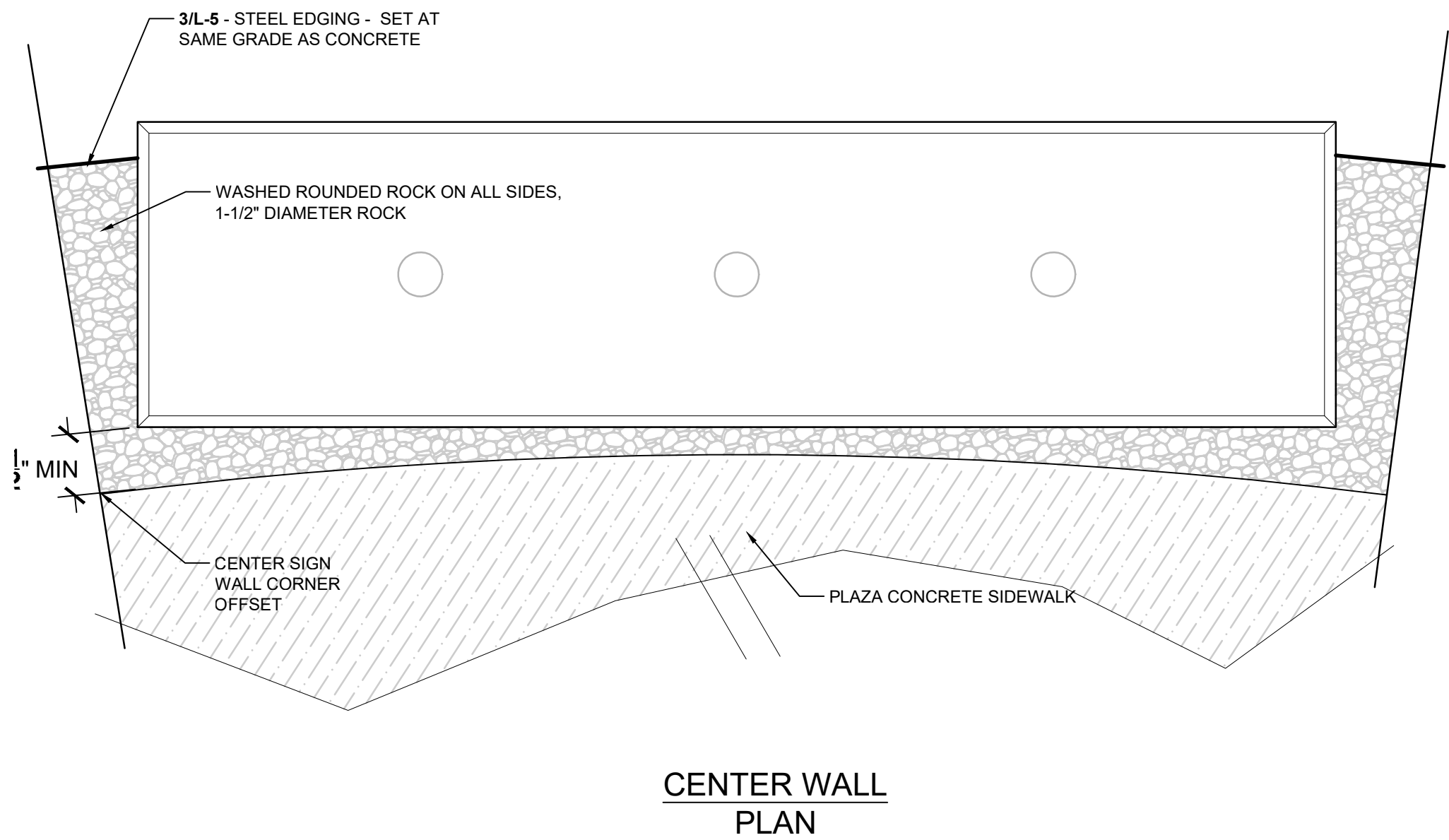
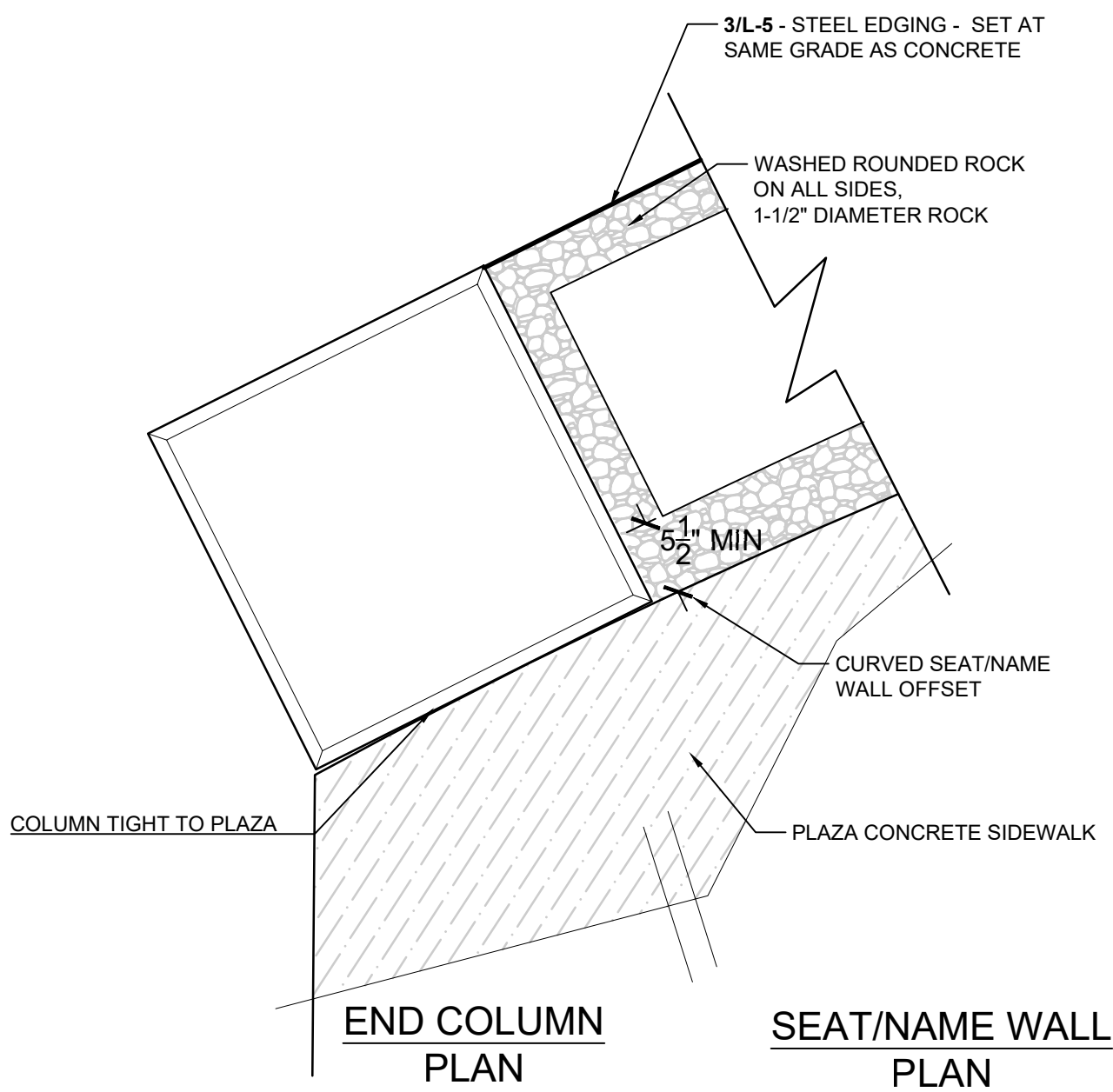
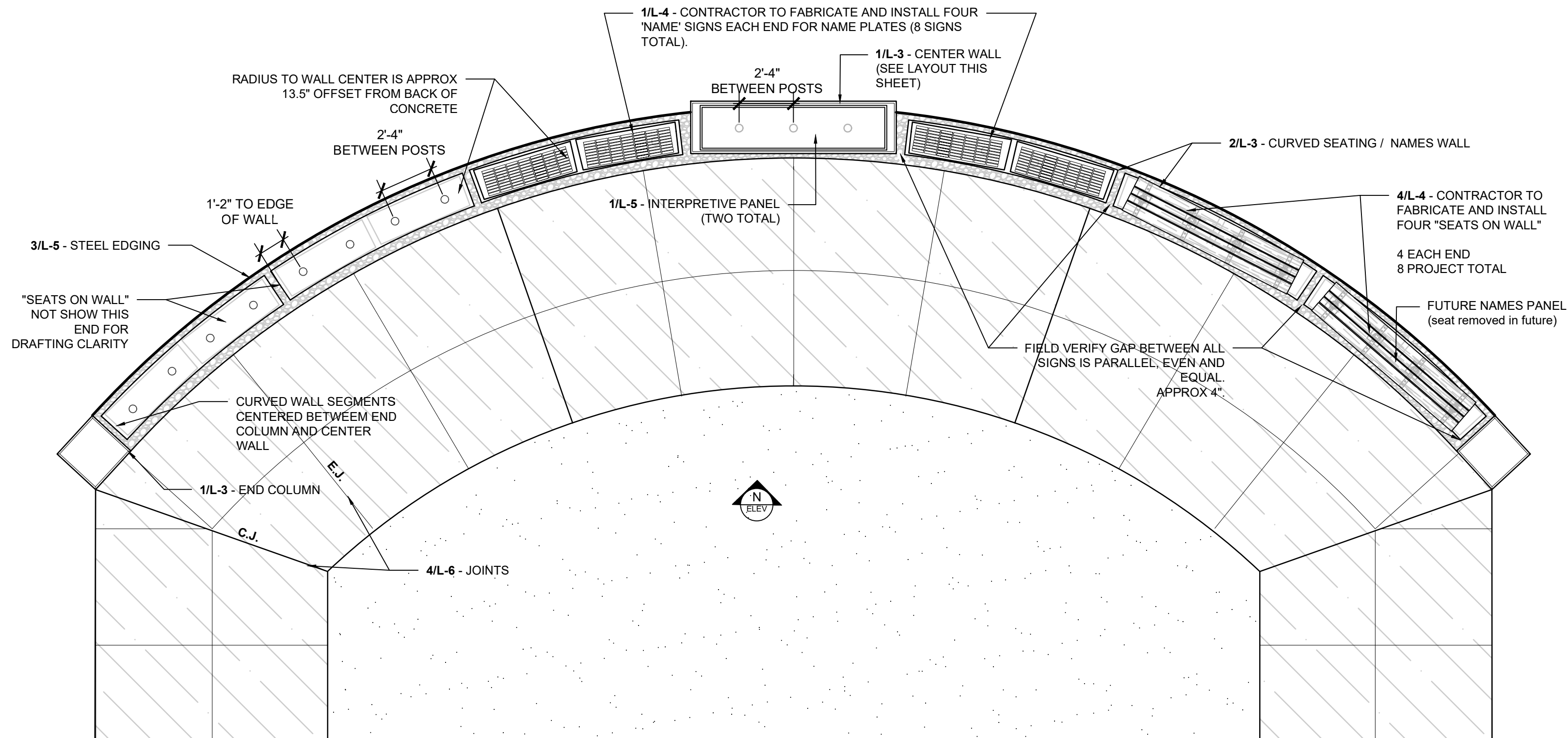
Sedro-Woolley, WA

SCALES:
HORIZONTAL : 1" = 10' / 30'
VERTICAL : N/A
DESIGNED: PD
DRAWN: PD
CHECKED: PD

SITE PLAN

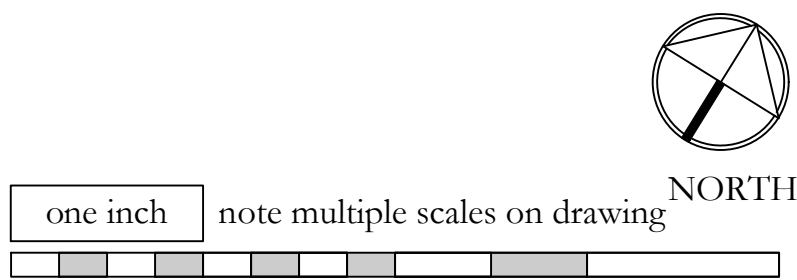
BID SET

ISSUE DATE: 3.16.22
DRAWING: 1301 SCVP
JOB NO.: 1301vp
SHEET: L-1



1 | HONOR WALL ENLARGEMENT
L-2 | 1/4" = 1'-0" (CHECK SCALE BAR FOR ACCURACY)

2 | COLUMN AND CENTER WALL TO PLAZA LAYOUT
L-2 | 1/4" = 1'-0" (CHECK SCALE BAR FOR ACCURACY)



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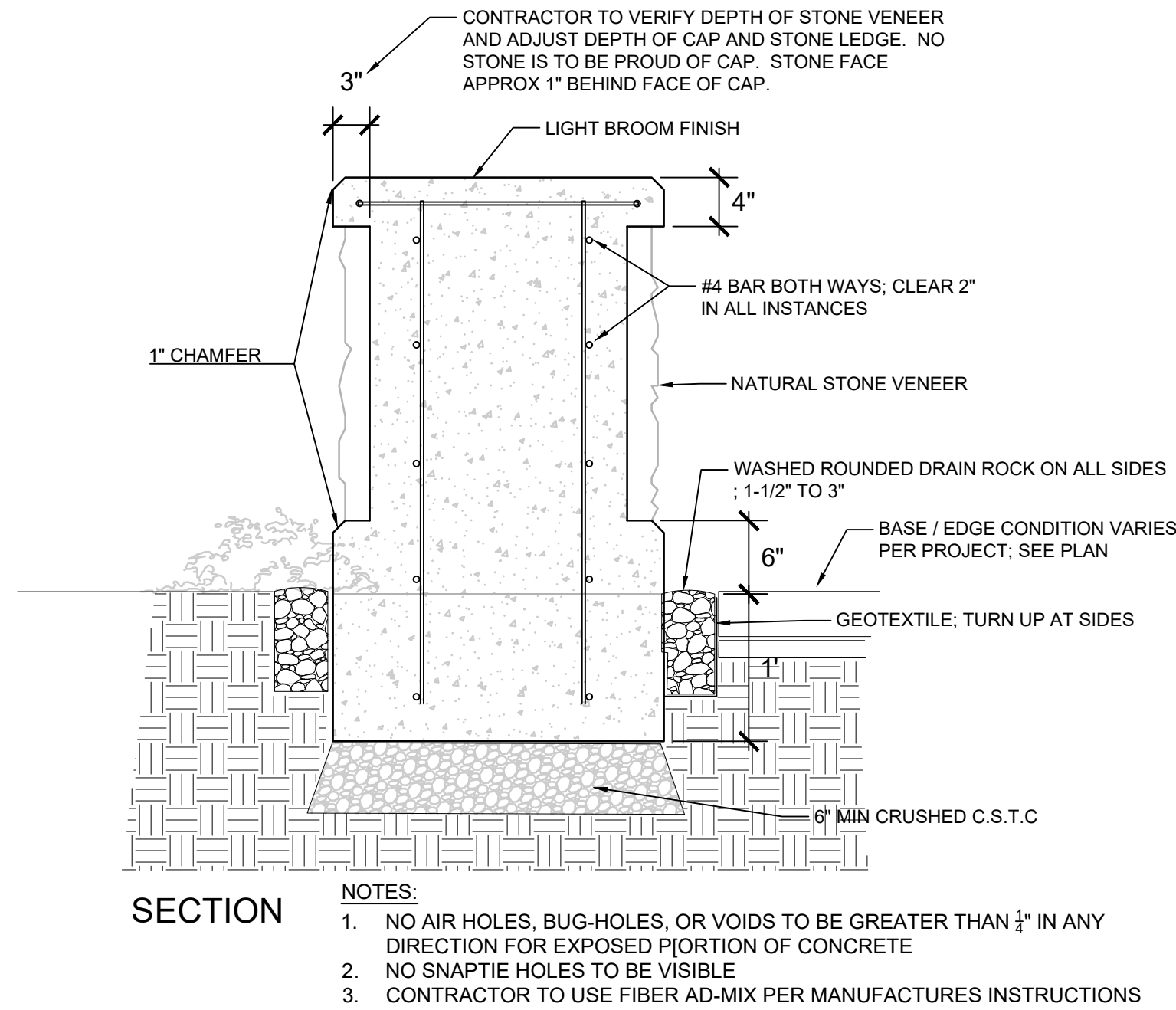
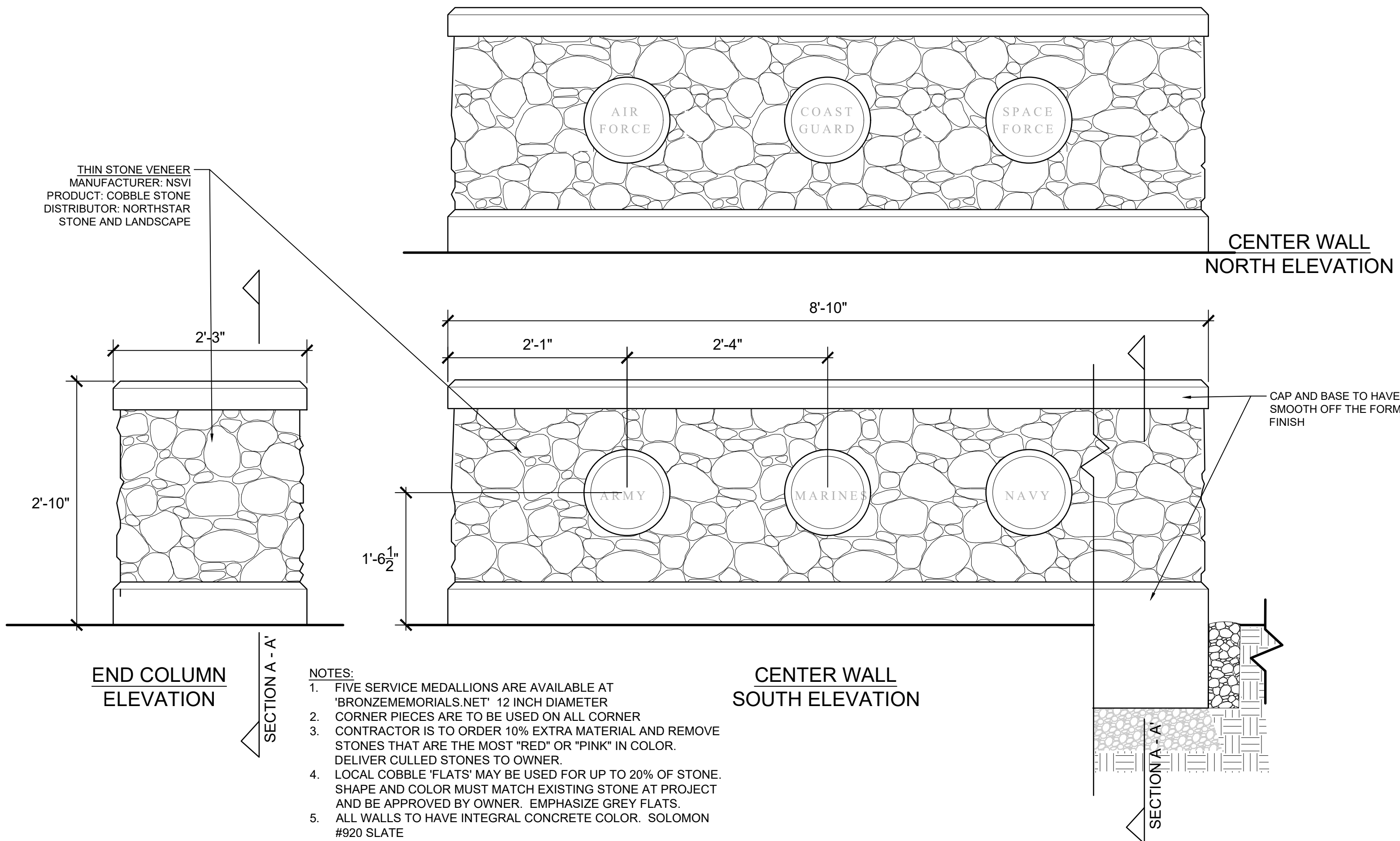
Northern State Recreation Area

Sedro-Woolley, WA

PLAZA LAYOUT

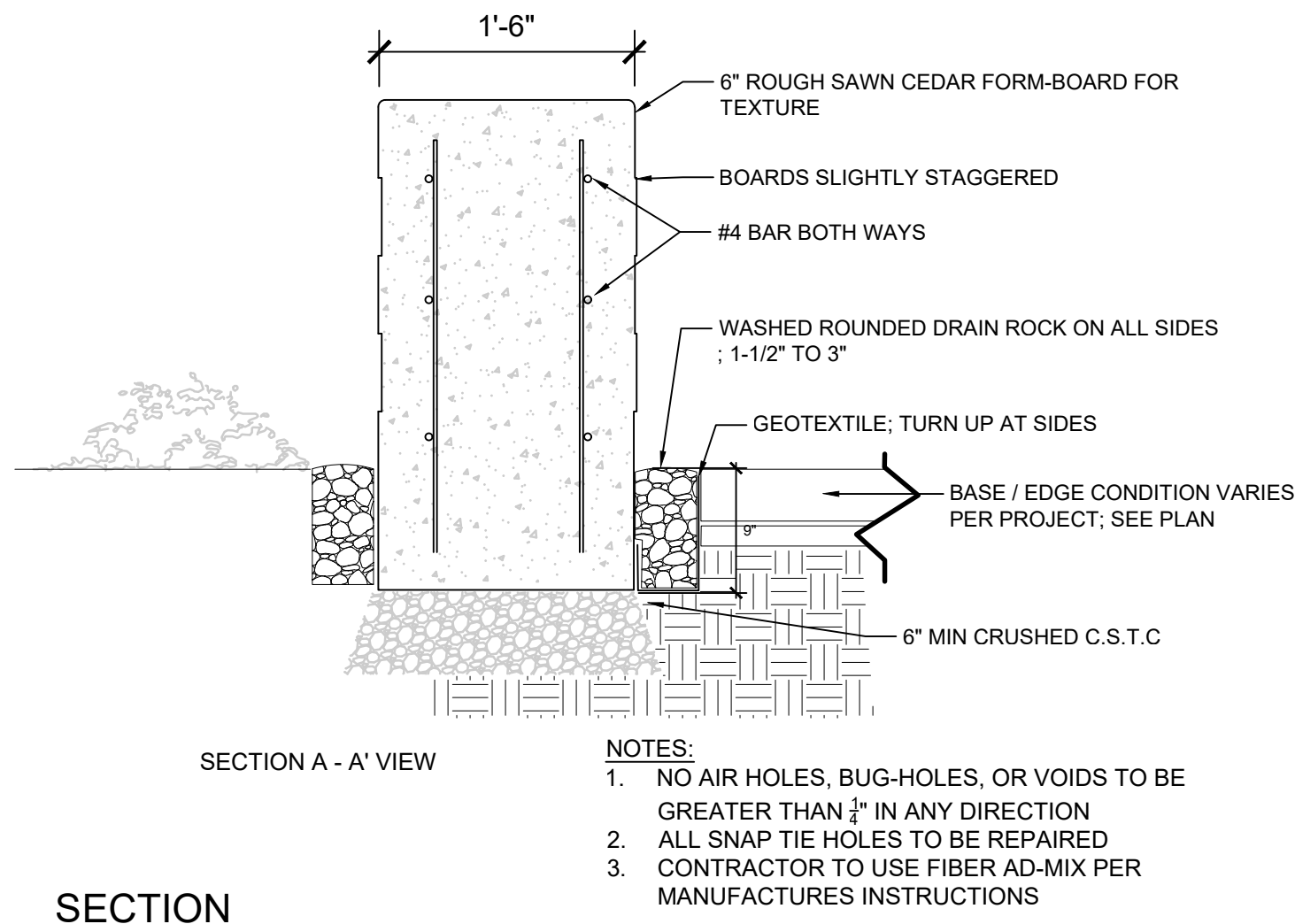
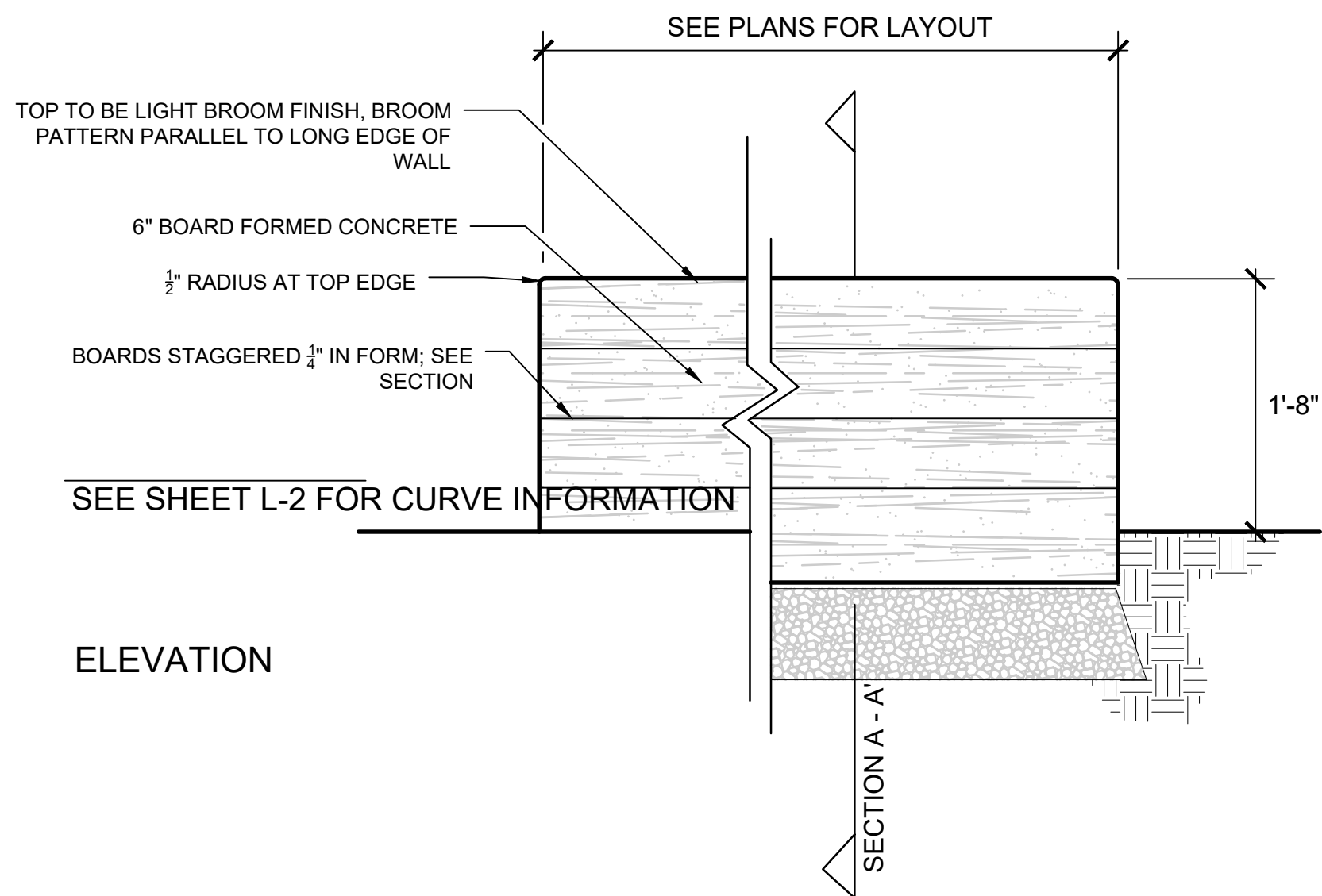
BID SET

ISSUE DATE: 3.16.22
DRAWING: 1301 SCVP
JOB NO.: 1301vp
SHEET: L-2

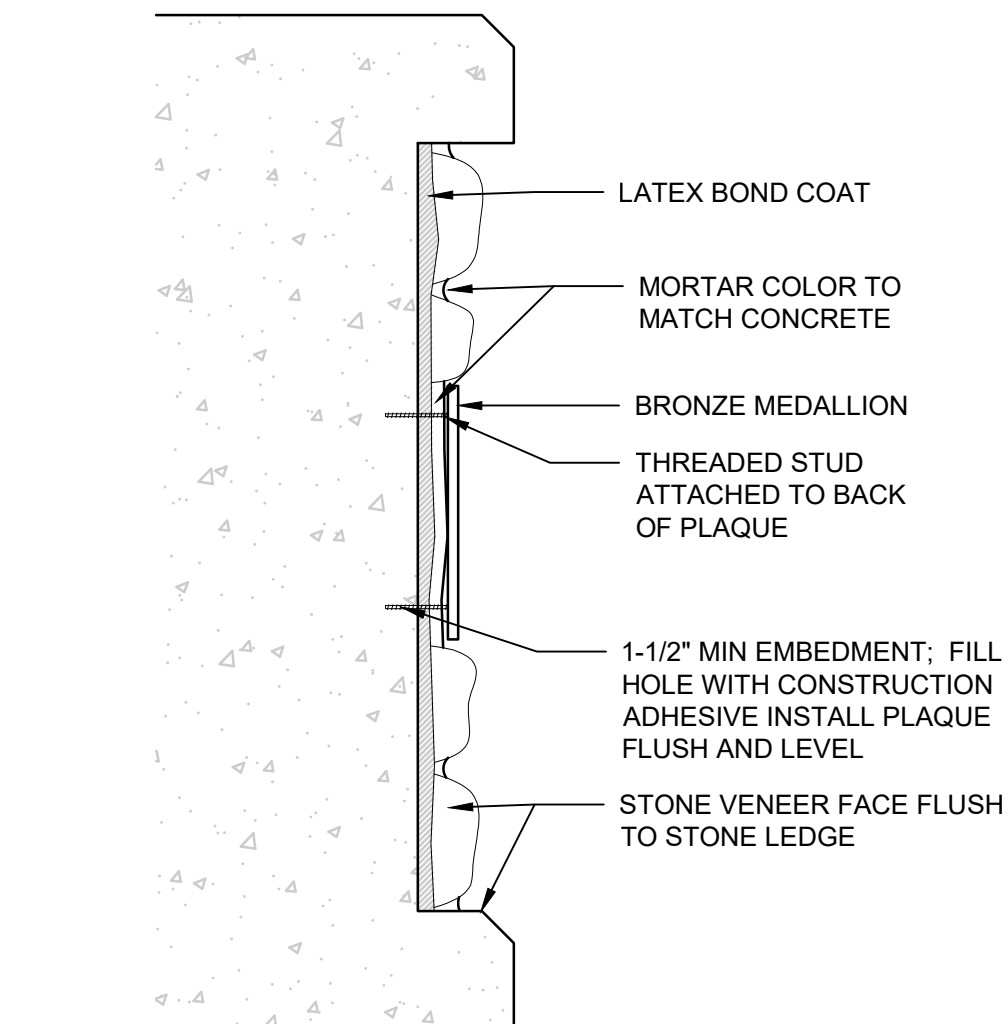


EXAMPLE OF EVEN JOINTING OF NATURAL COBBLESTONE VENEER

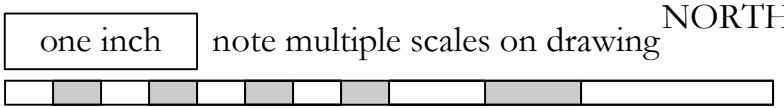
1| COLUMN AND CENTER WALL
L-3 | 1/4" = 1'-0" (CHECK SCALE BAR FOR ACCURACY)



2| CURVED SEATING/NAMES WALL
L-3 | 1/4" = 1'-0" (CHECK SCALE BAR FOR ACCURACY)



3| STONE AND MEDALLION ON CENTER WALL
L-3 | (NO SCALE)



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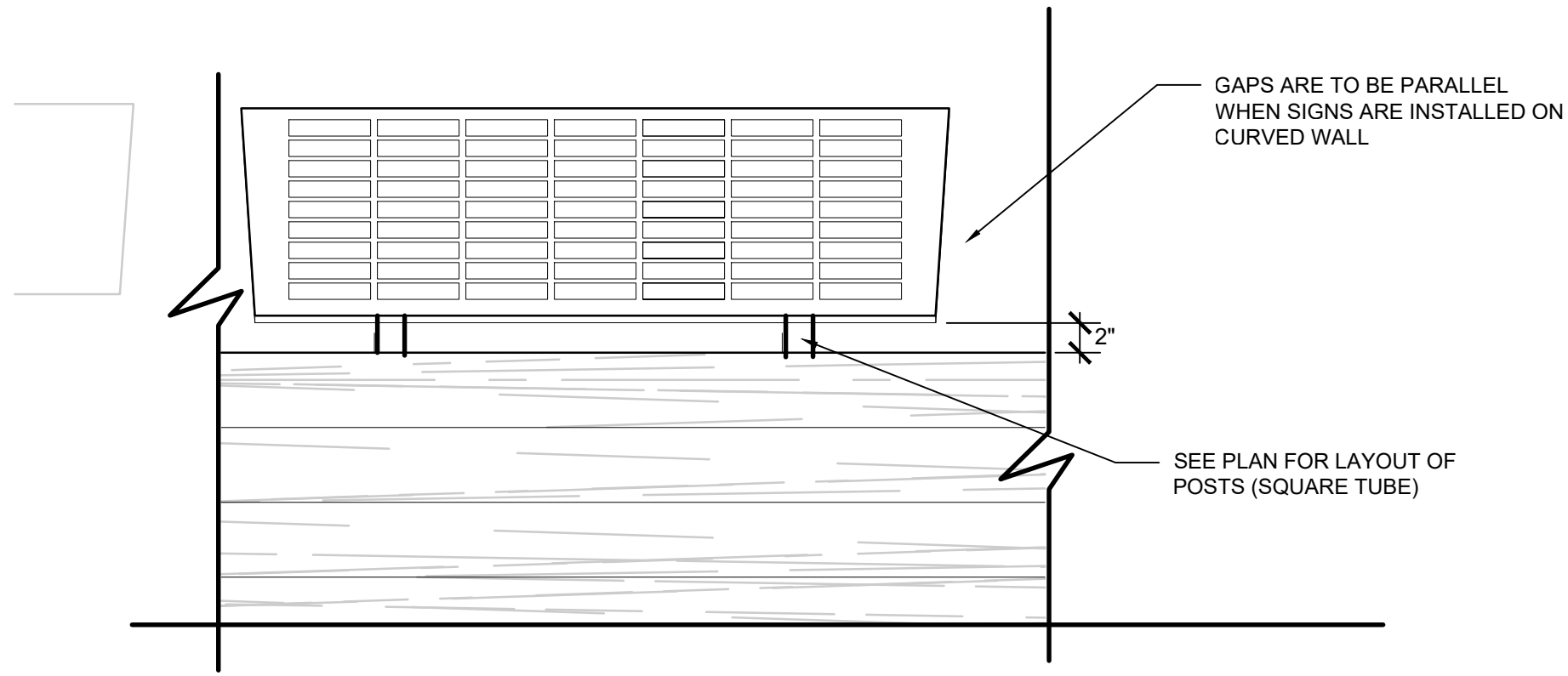
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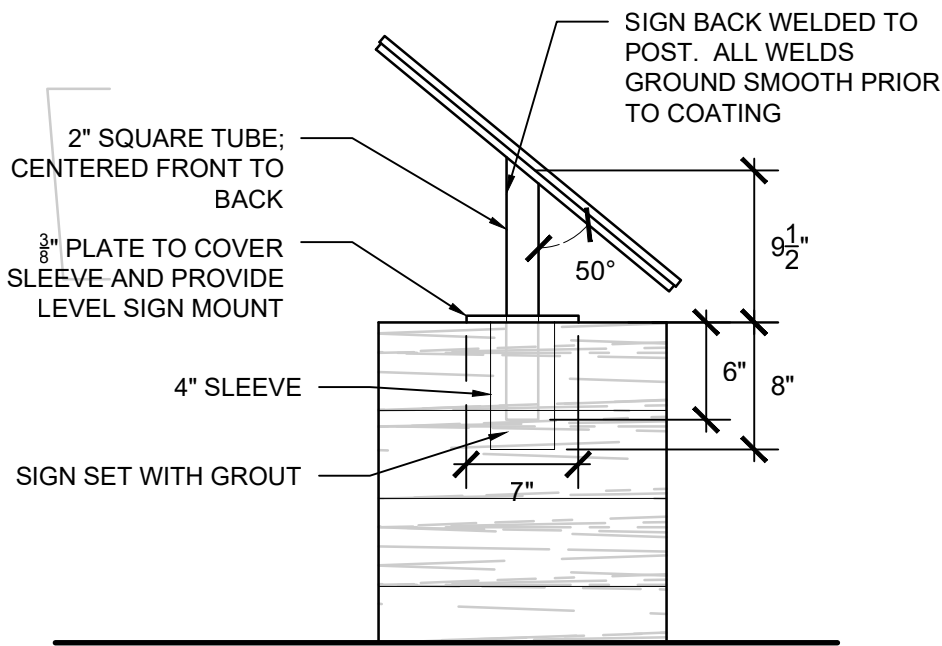
Northern State Recreation Area
Sedro-Woolley, WA
SCALES:
HORIZONTAL :
VERTICAL : N/A
DESIGNED: PD
DRAWN: PD
CHECKED: PD

WALL DETAILS
BID SET

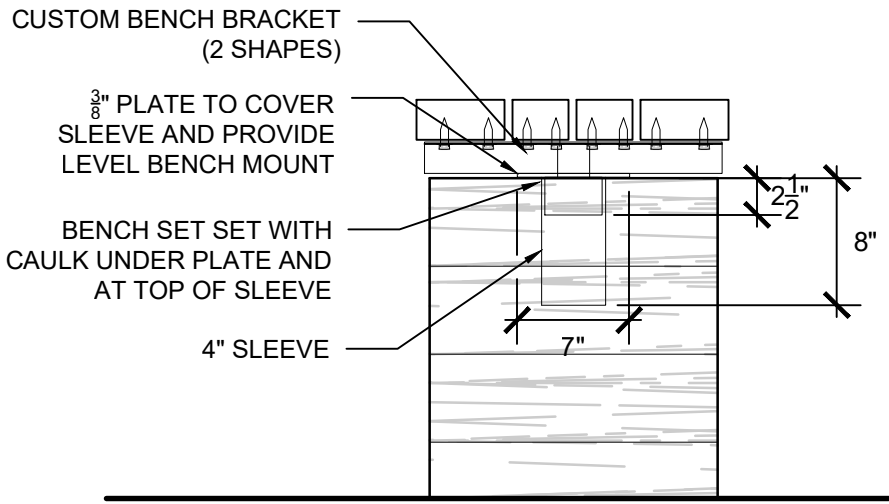
ISSUE DATE: 3.16.22
DRAWING: 1301 SCVP
JOB NO.: 1301vp
SHEET: L-3



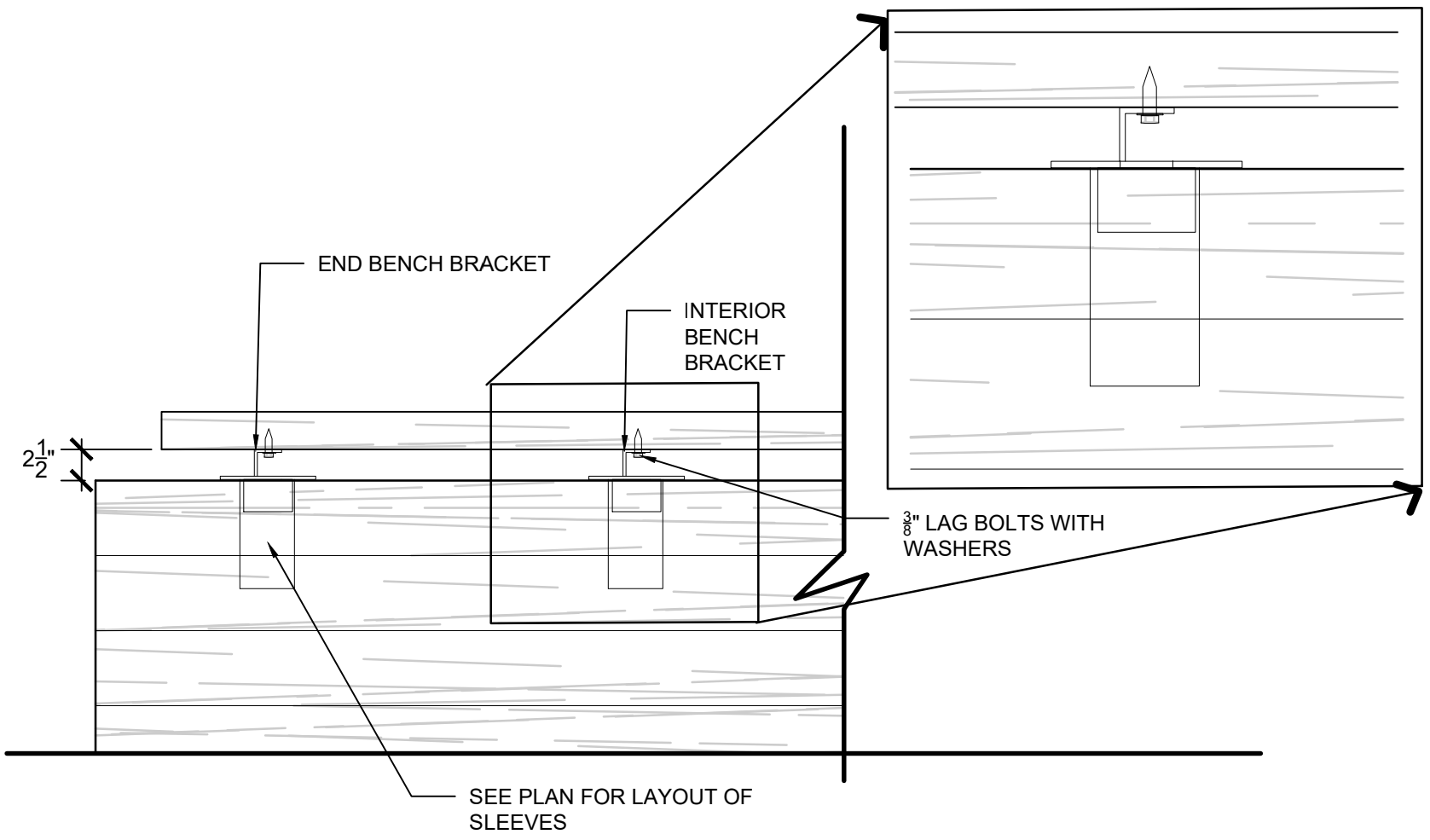
FLATTENED FRONT ELEVATION



END ELEVATION

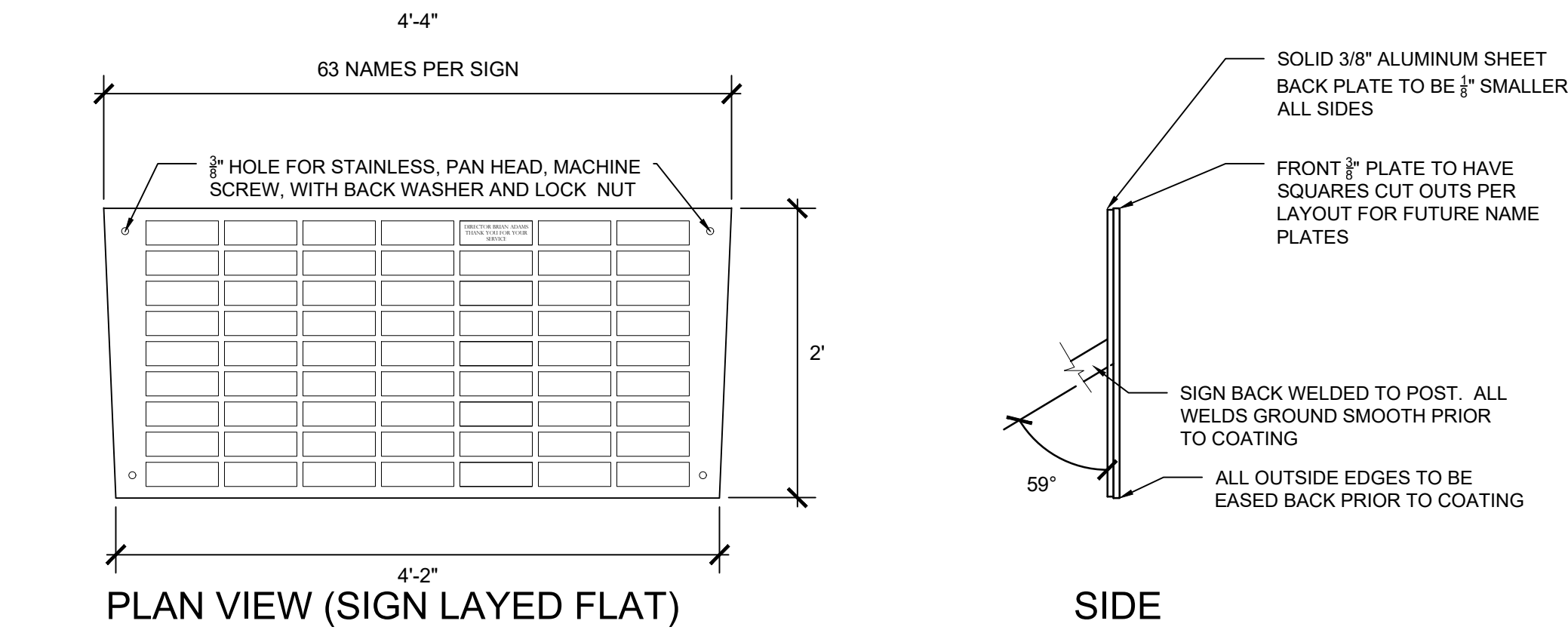


END ELEVATION

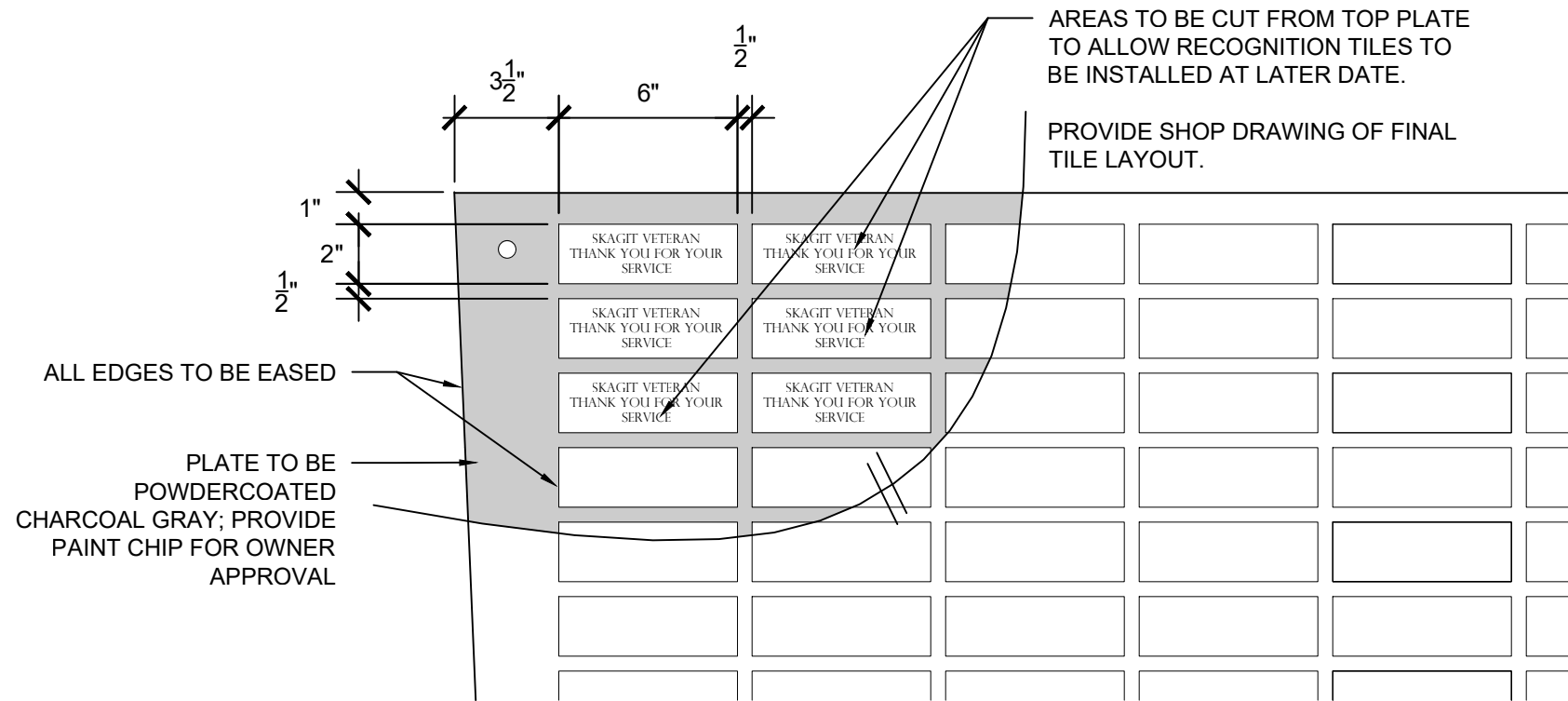


FLATTENED FRONT ELEVATION

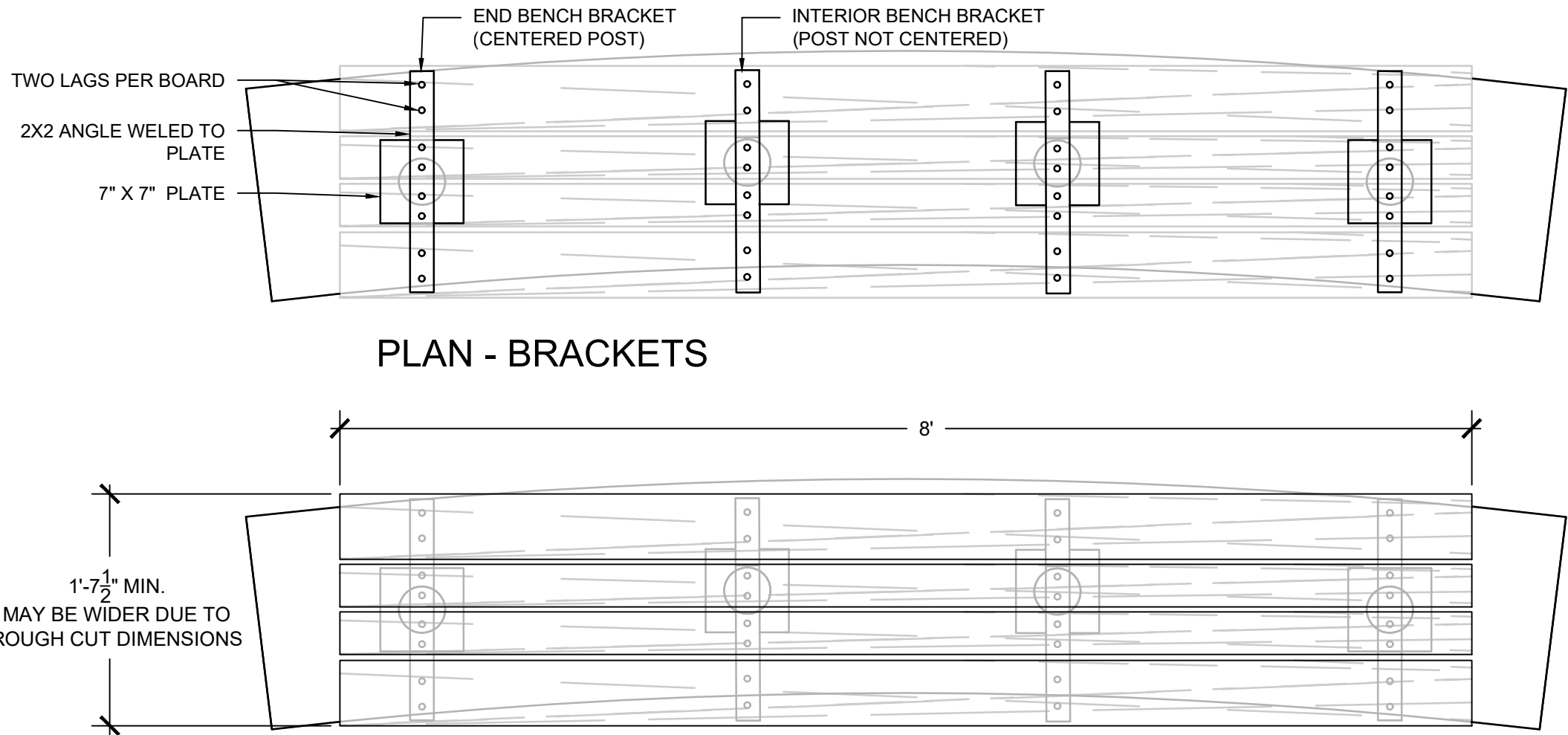
1 | SIGN PANEL ON WALL
L-4 | 1/4" = 1'-0" (CHECK SCALE BAR FOR ACCURACY)



2 | NAME PLATE
L-4 | NO SCALE

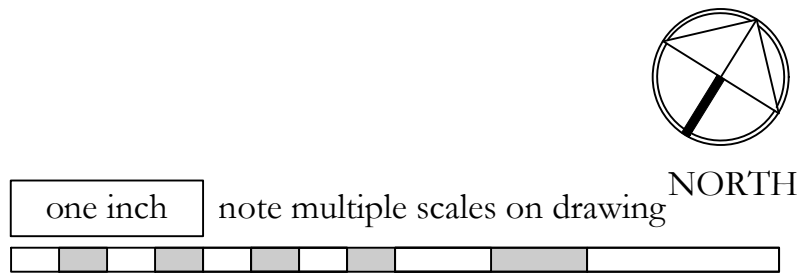


3 | NAME PLATE ENLARGEMENT
L-4 | NO SCALE



- NOTES:**
1. ALL WOOD TO BE YELLOW CEDAR, NO 1 CONSTRUCTION GRADE OR BETTER; FINISHED SMOOTH.
 2. BENCH SEAT MAY BE FABRICATED OF RECLAIMED BEAM WITH OWNER APPROVAL. DIMENSIONS MAY BE MODIFIED TO USE REMNANT / RECYCLED MATERIALS
 3. ALL FASTENERS TO BE GALVANIZED OR STAINLESS
 4. ALL METAL EDGES BRACKETS TO BE GALVANIZE OR POWERCOATED CHARCOAL GREY. CONTRACTOR TO PROVIDE COLOR SAMPLES PRIOR TO FABRICATION,
 5. DUE TO INCONSISTENT WOOD DIMENSIONS, IT IS SUGGESTED TO PROCURE WOOD BEFORE SUBMITTING SHOP DRAWING FOR CUSTOM BRACKET
 6. ALL WOOD TO BE STAINED WITH PENOFIN TSF MARINE GRADE, COLOR 'IPE'; TWO COATS MIN.

4 | SEAT ON WALL
L-4 | 1/4" = 1'-0" (CHECK SCALE BAR FOR ACCURACY)



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STATE OF WASHINGTON
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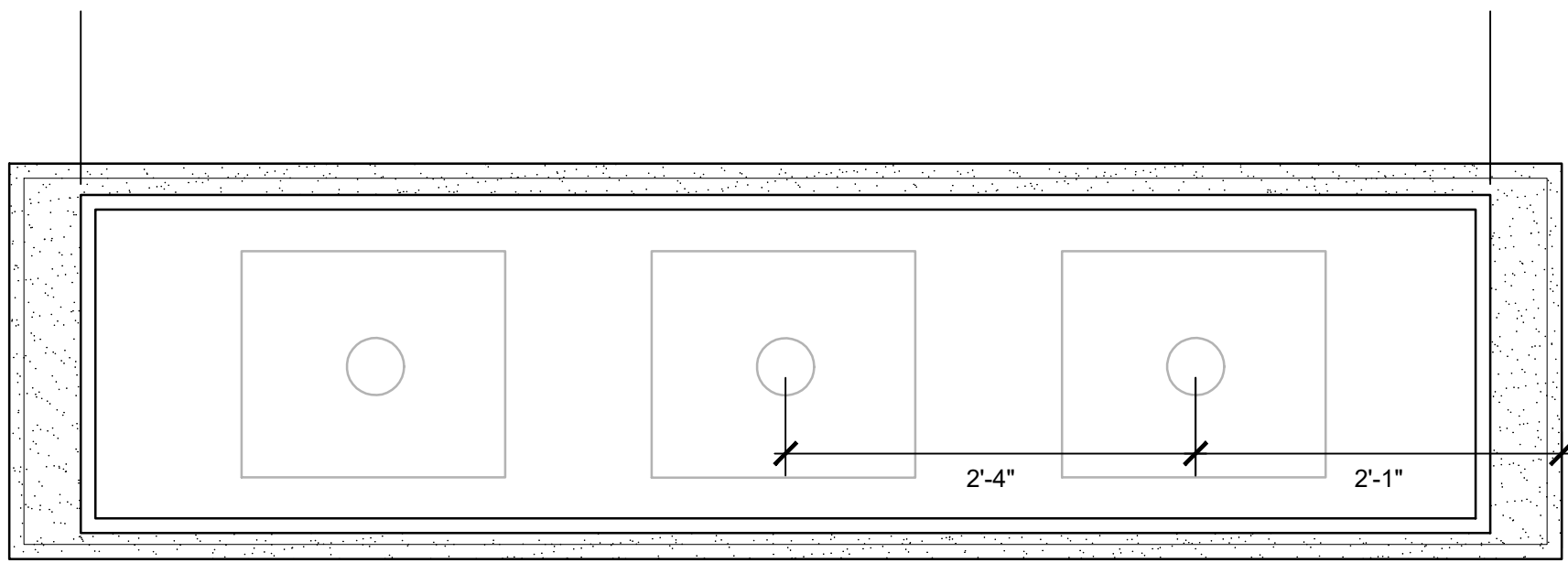
Sedro-Woolley, WA

SCALES:
HORIZONTAL :
VERTICAL : N/A
DESIGNED: PD
DRAWN: PD
CHECKED: PD

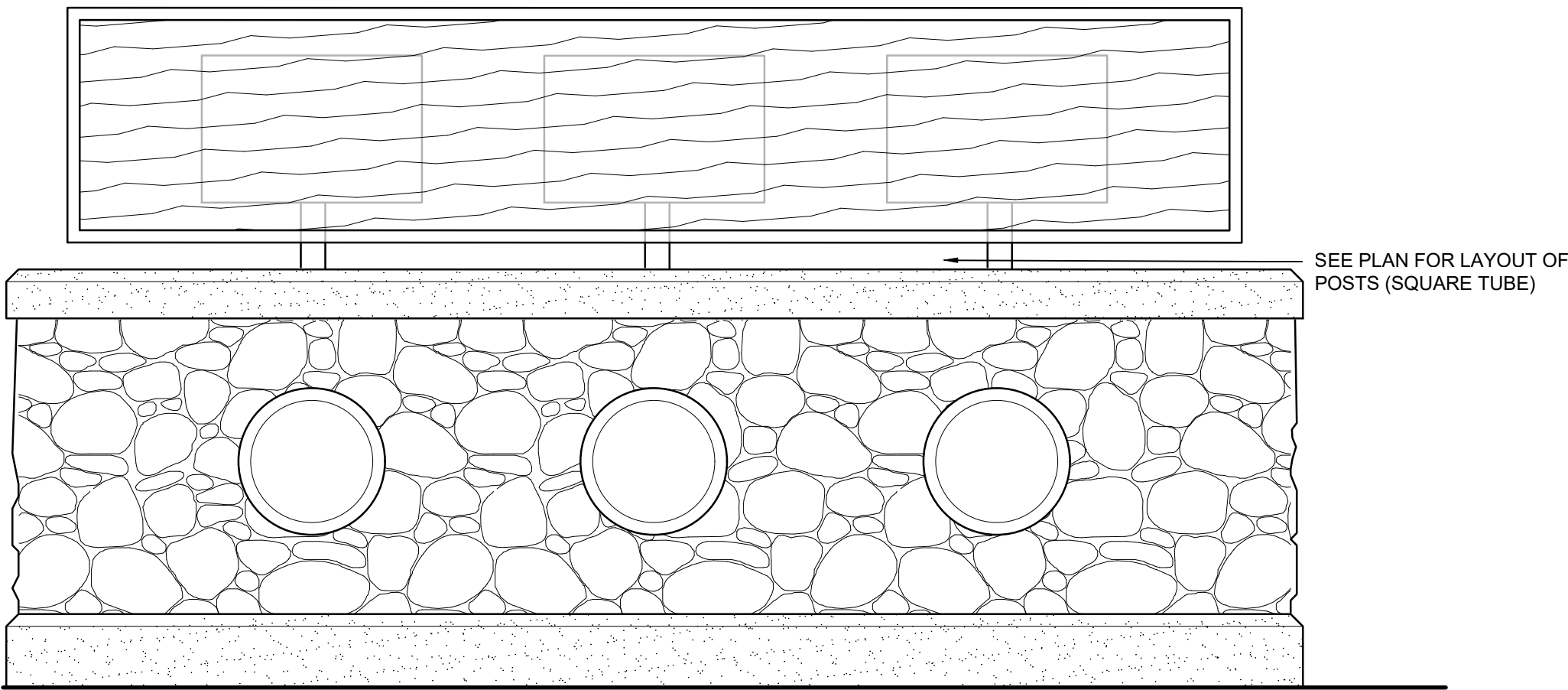
SIGN AND SEAT DETAILS

BID SET

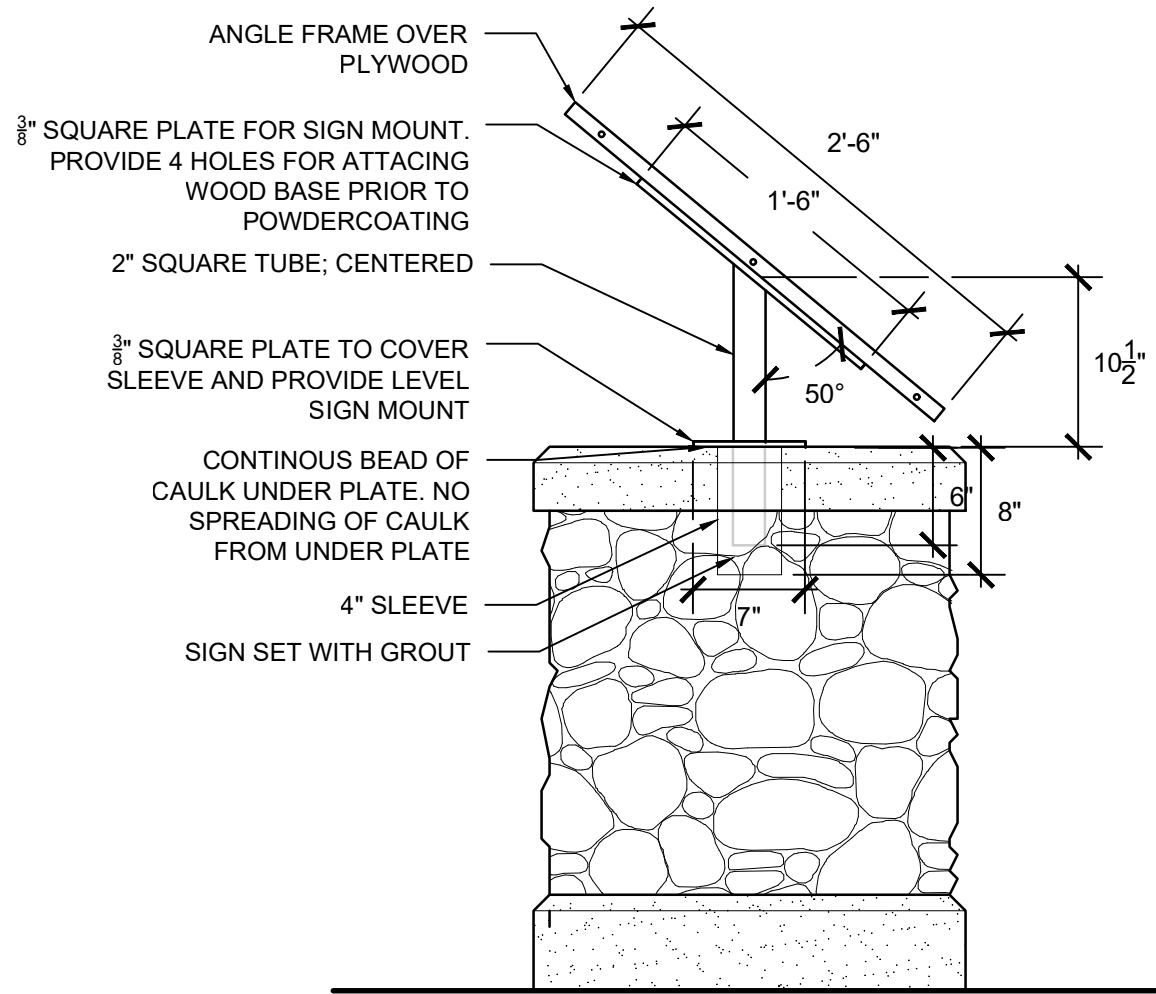
ISSUE DATE: 3.16.22
DRAWING: 1301 SCVP
JOB NO.: 1301vp
SHEET: **L-4**



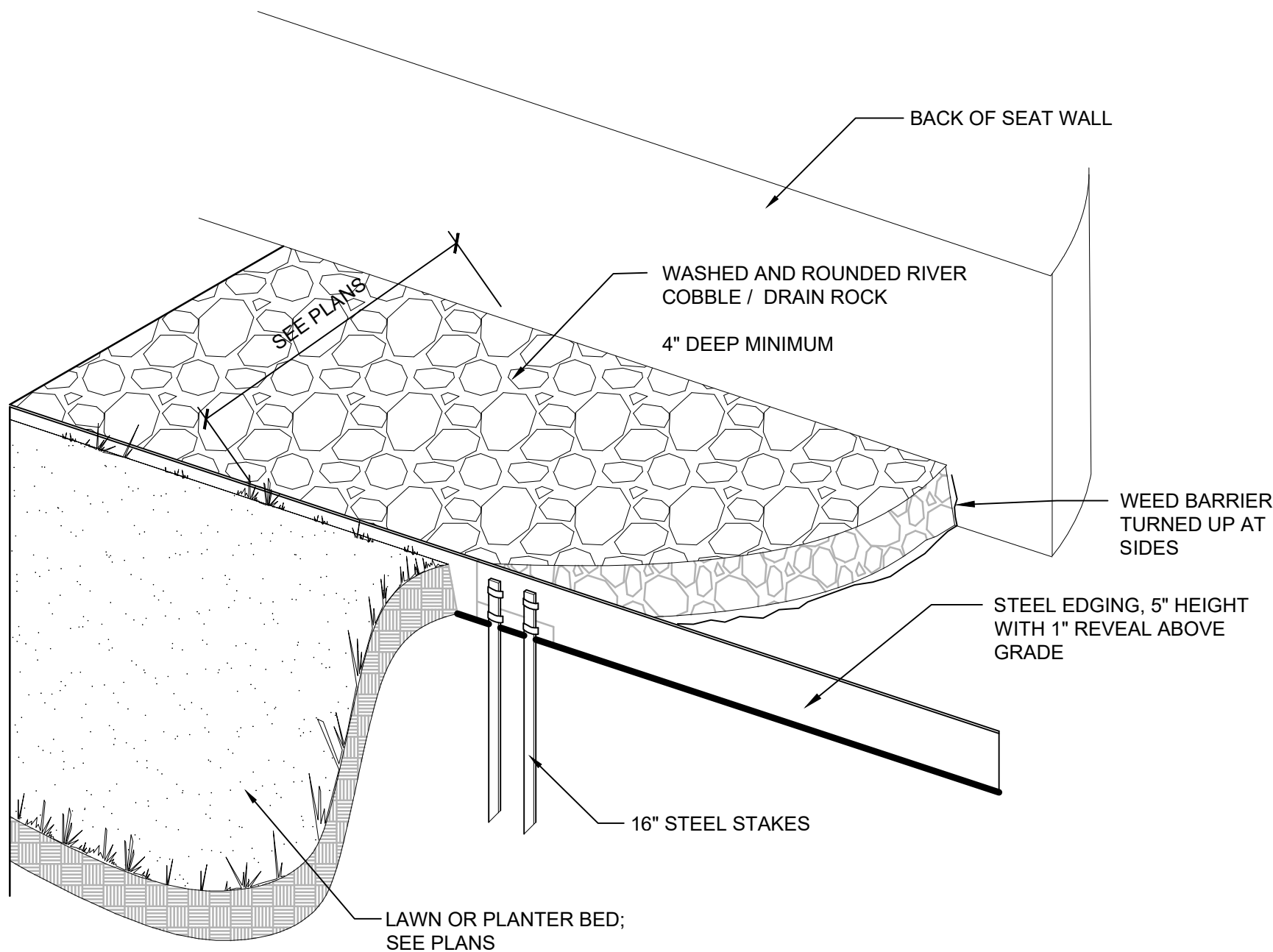
PLAN



ELEVATION - FRONT



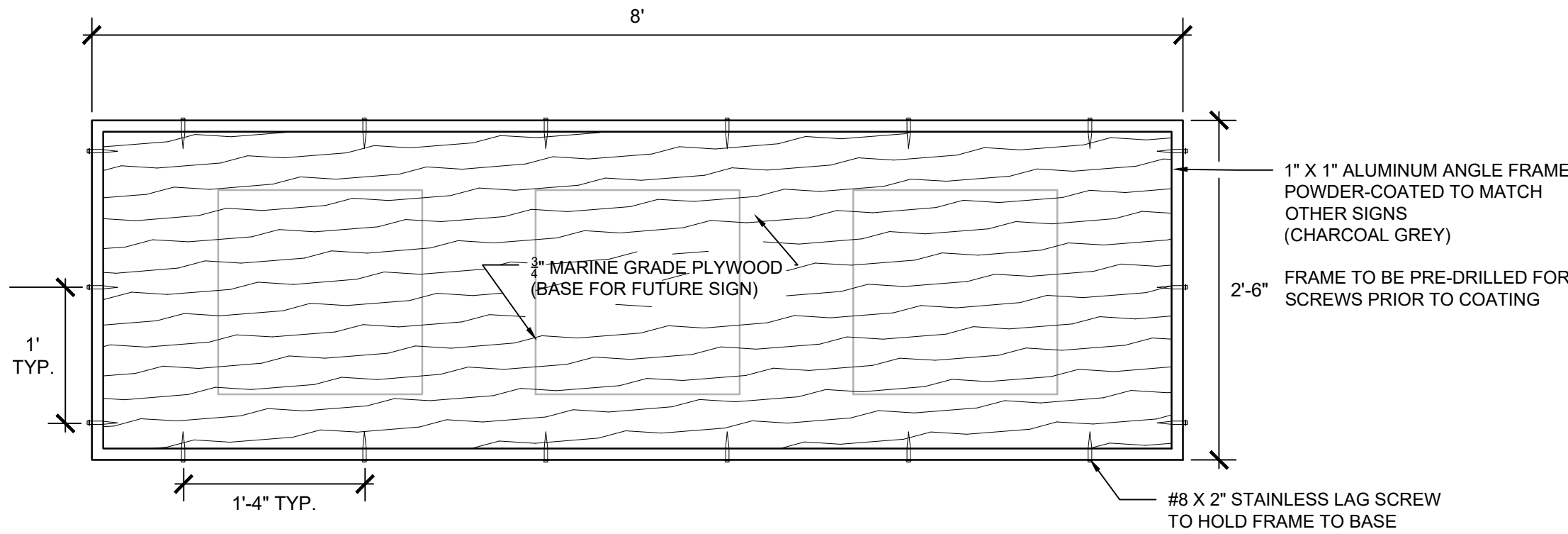
ELEVATION - SIDE



- NOTES:**
1. INSTALLED PER MANUFACTURES SPECIFICATIONS
 2. EDGING TO BE UNFINISHED NATURAL STEEL
 3. MINIMUM THICKNESS IS 12 GAUGE

1 | SIGN PANEL ON WALL
L-5 | 1/4" = 1'-0" (CHECK SCALE BAR FOR ACCURACY)

3 | STEEL EDGING AT CONCRETE SEATING WALL
L-5 | NO SCALE



SIGN LAYED FLAT

- NOTES:**
1. SIGN TO BE INSTALLED ON TOP OF PLYWOOD TO BE OWNER SUPPLIED

2 | SIGN PANEL
L-5 | 1/4" = 1'-0" (CHECK SCALE BAR FOR ACCURACY)



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Northern State Recreation Area

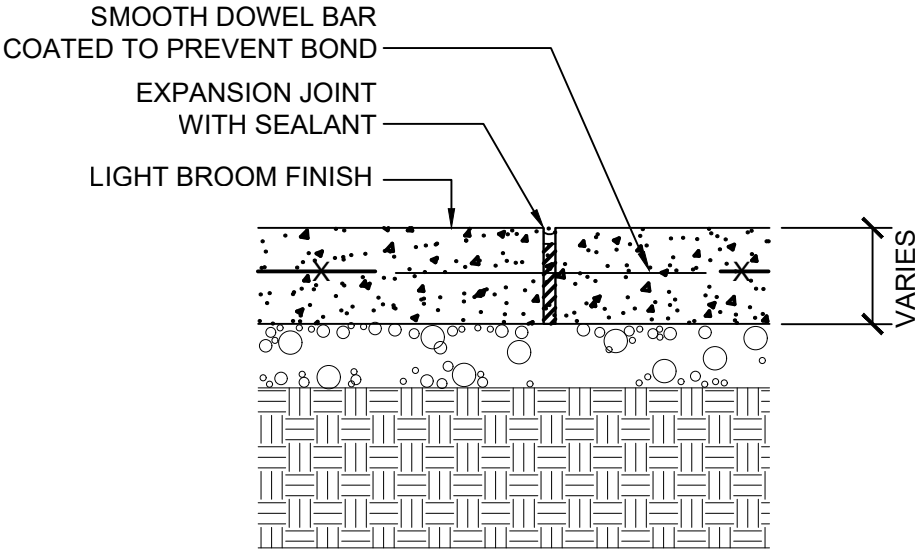
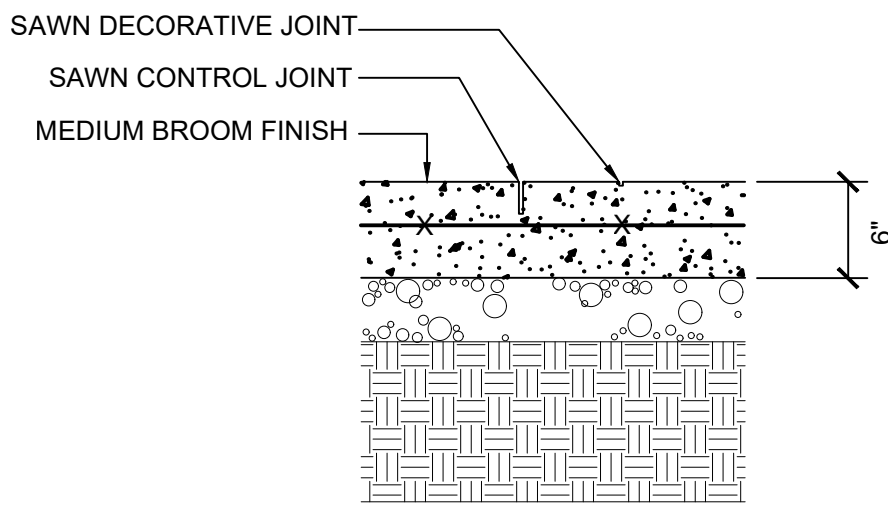
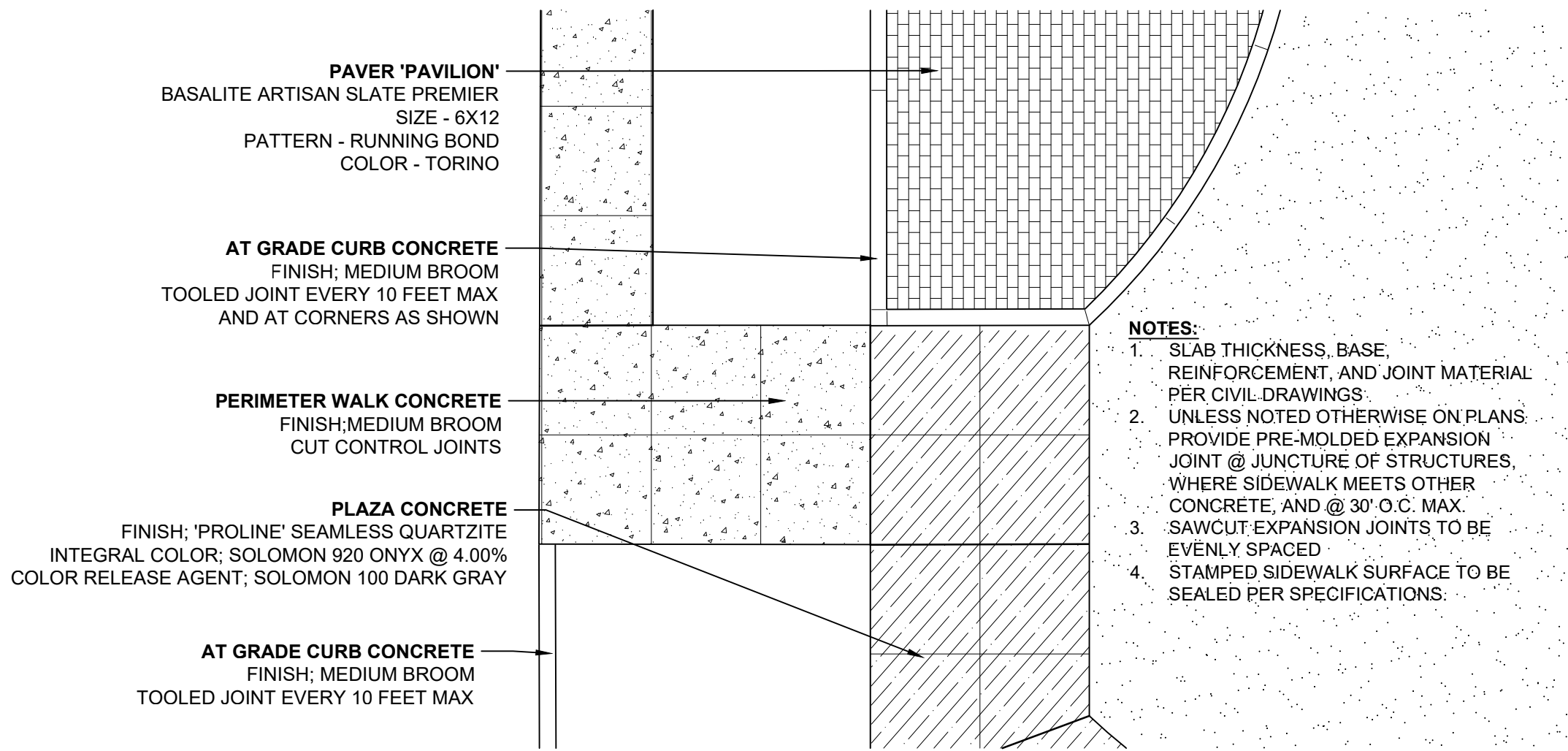
Sedro-Woolley, WA

SCALES:
HORIZONTAL :
VERTICAL : N/A
DESIGNED: PD
DRAWN: PD
CHECKED: PD

SIGN FRAME DETAILS

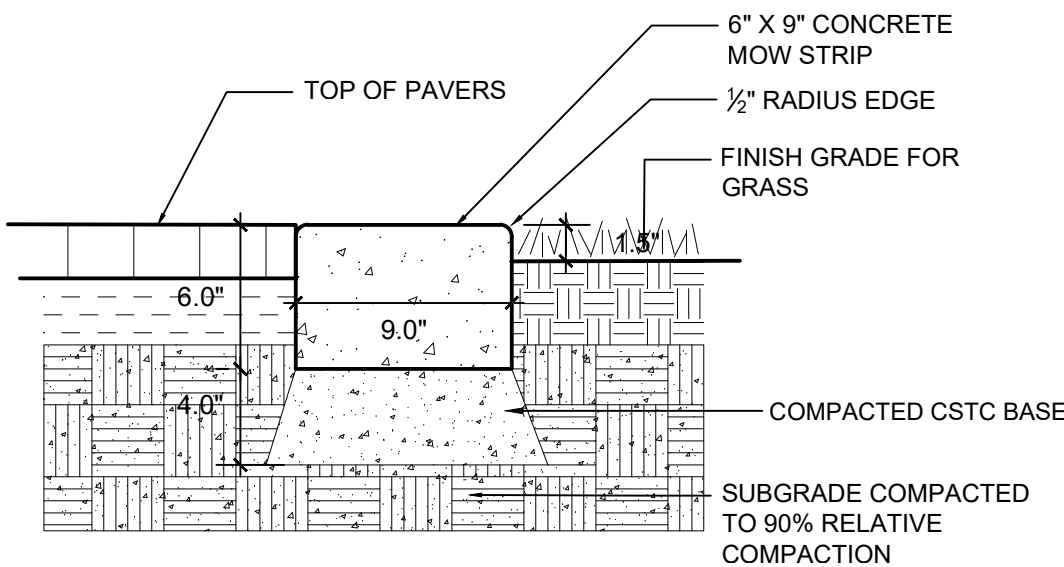
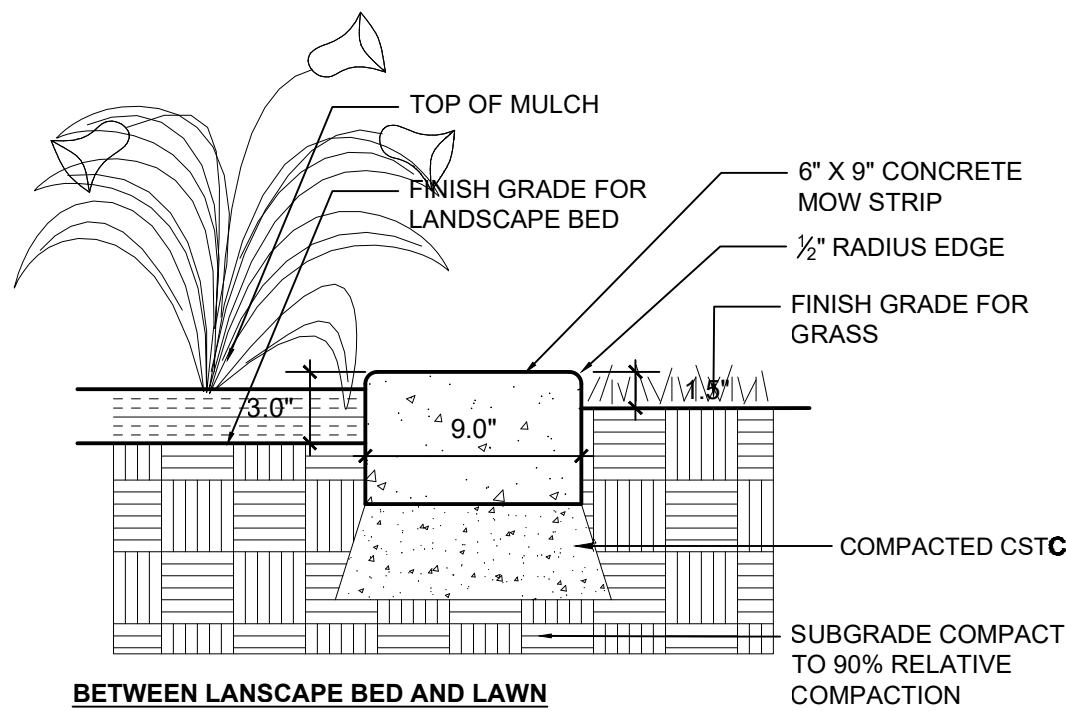
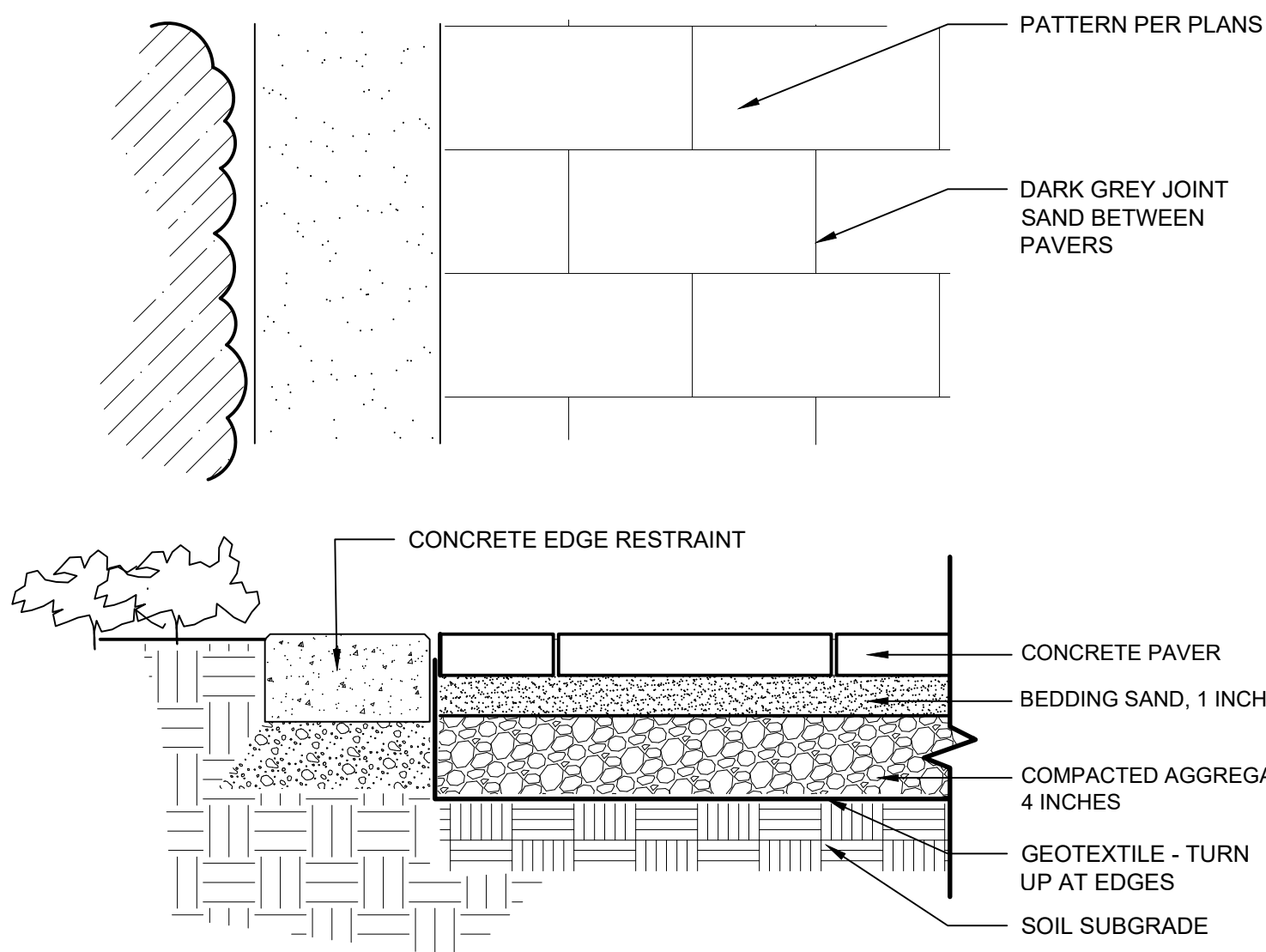
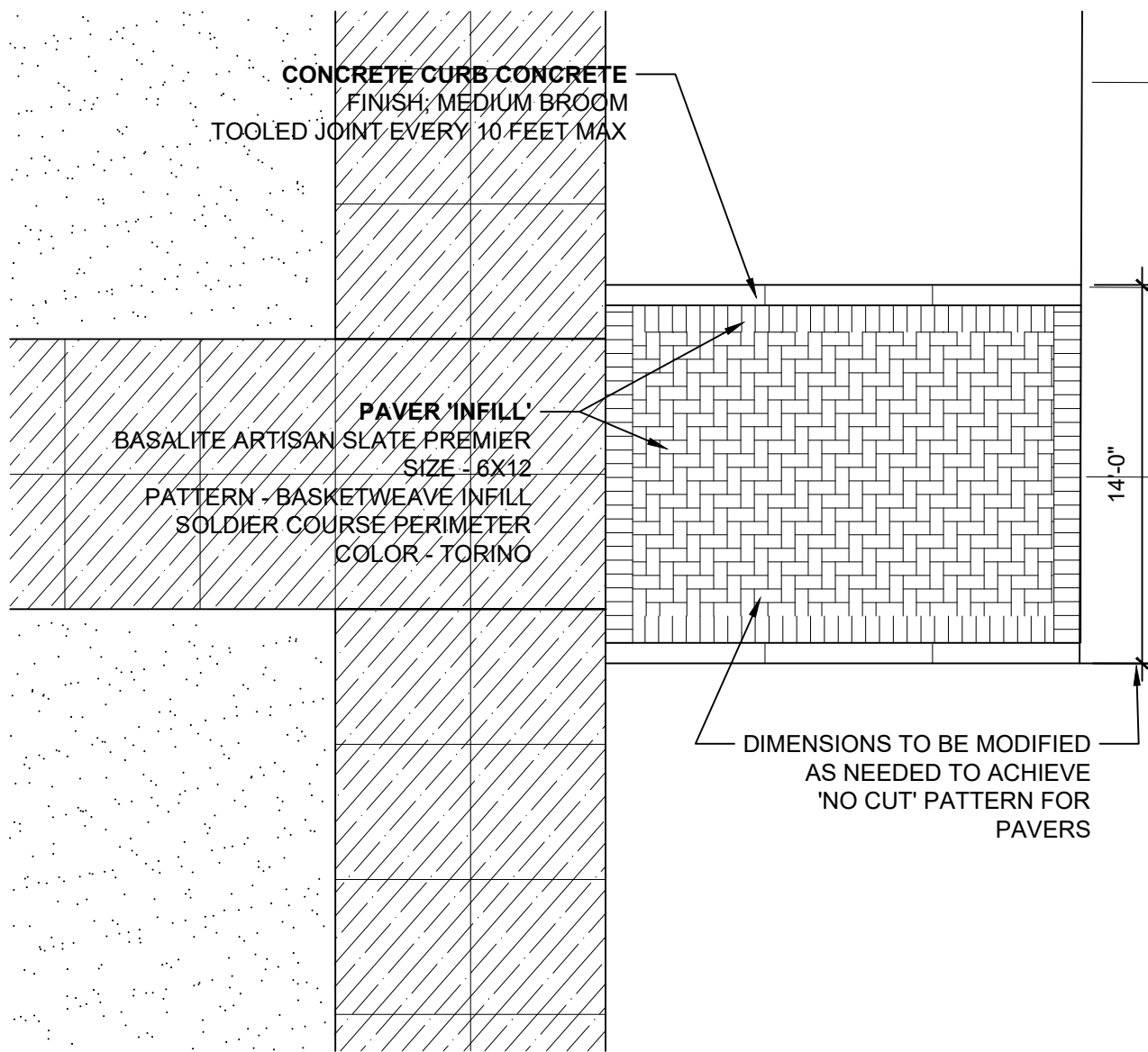
BID SET

ISSUE DATE: 3.16.22
DRAWING: 1301 SCVP
JOB NO.: 1301vp
SHEET: L-5



1|DECORATIVE PAVING AT PLAZA - A
L-6| 1/4" = 1'-0" (CHECK SCALE BAR FOR ACCURACY)

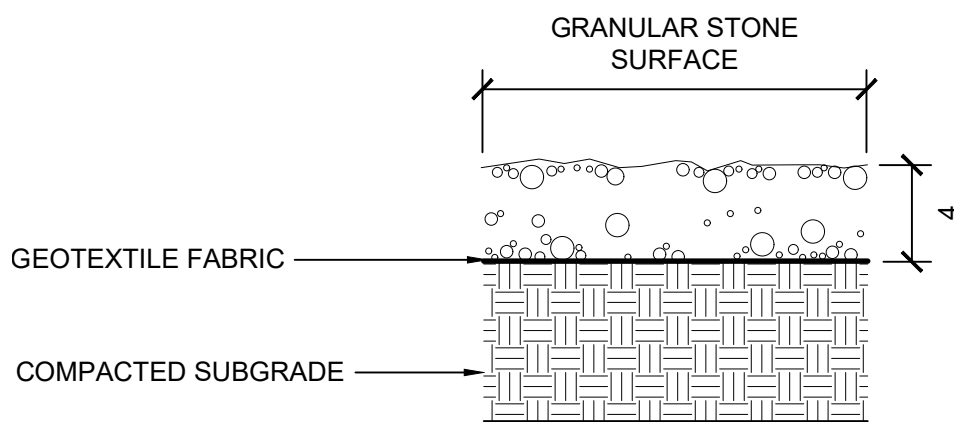
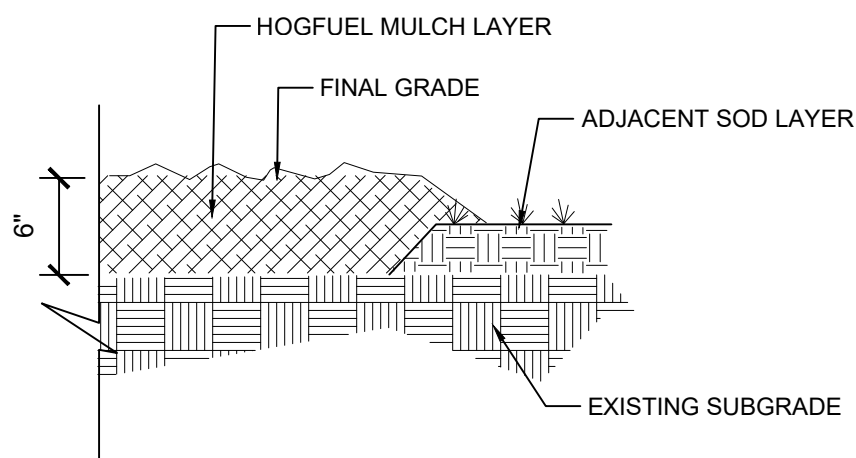
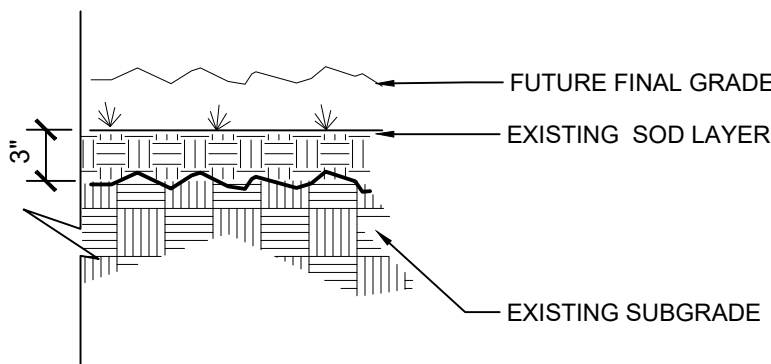
4|CONCRETE CONTROL AND EXPANSION JOINT
L-6| NO SCALE



2|DECORATIVE PAVING AT ENTRANCE - B
L-6| 1/4" = 1'-0" (CHECK SCALE BAR FOR ACCURACY)

3|SAND SET PAVERS
L-6| 1/8" = 1'-0" (CHECK SCALE BAR FOR ACCURACY)

5|MOWSTRIP EDGE
L-6| NO SCALE



EXISTING CONDITION

INSTALLED CONDITION

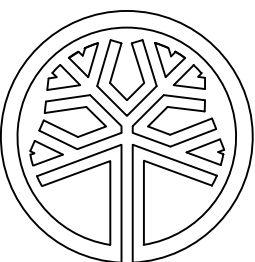
7|GRAVEL PAD
L-6| NO SCALE

6|HOGFUEL PAD AND PATH
L-6| NO SCALE

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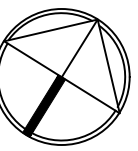
Sedro-Woolley, WA

SCALES:
HORIZONTAL :
VERTICAL : N/A
DESIGNED: PD
DRAWN: PD
CHECKED: PD

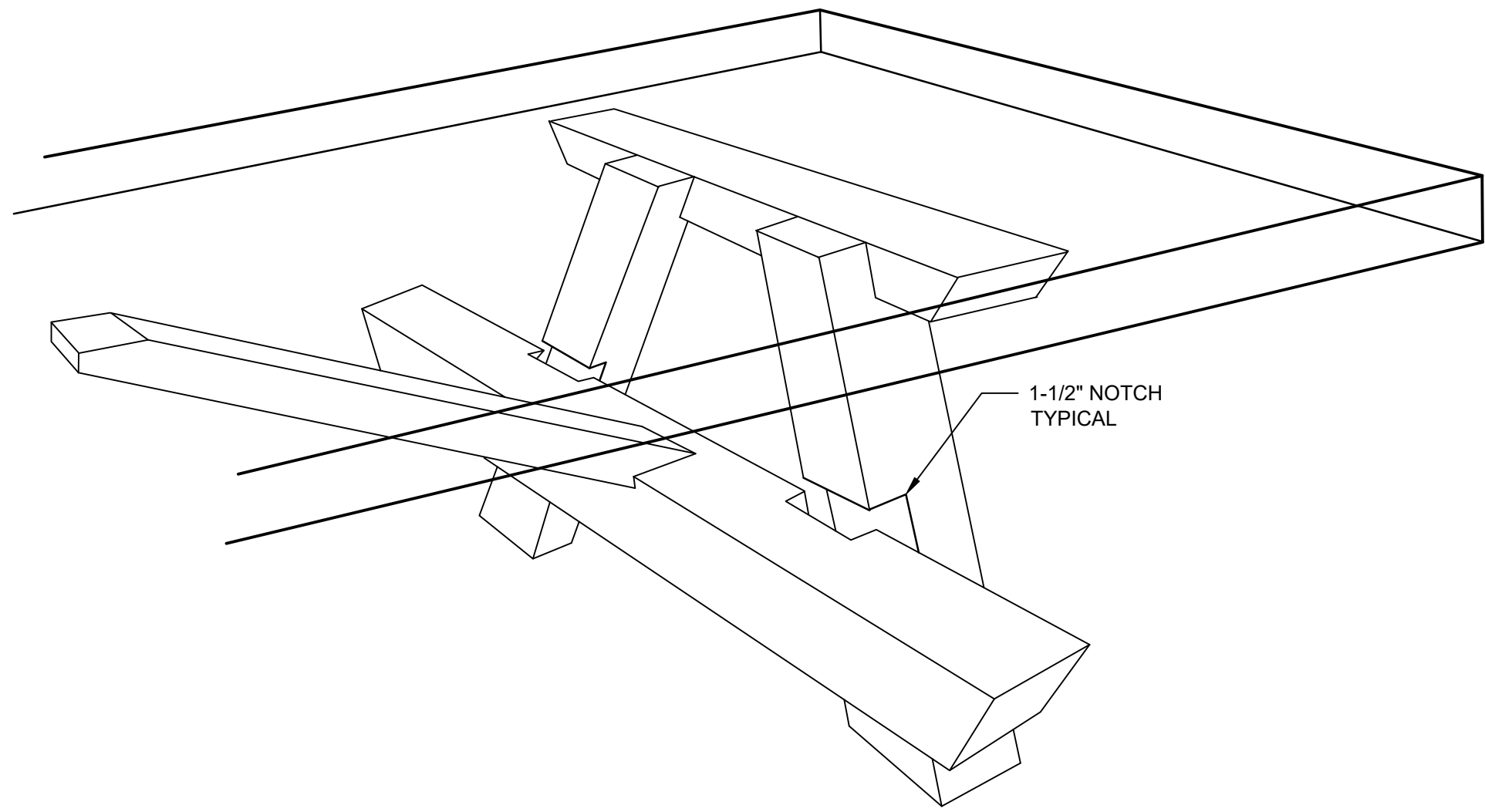
CONCRETE AND
SITE DETAILS

BID SET

ISSUE DATE: 3.16.22
DRAWING: 1301 SCVP
JOB NO.: 1301vp
SHEET: L-6

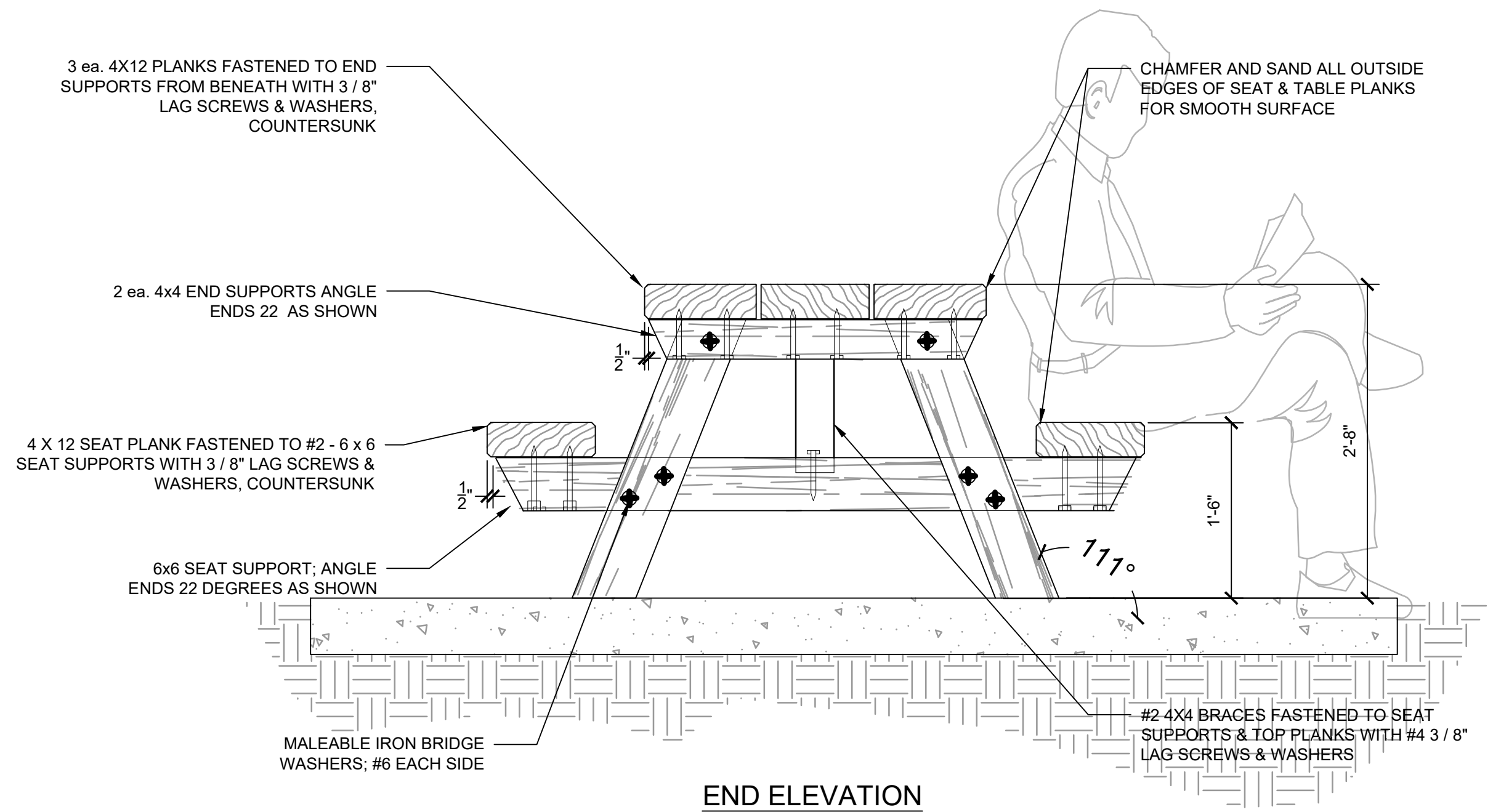


one inch note multiple scales on drawing

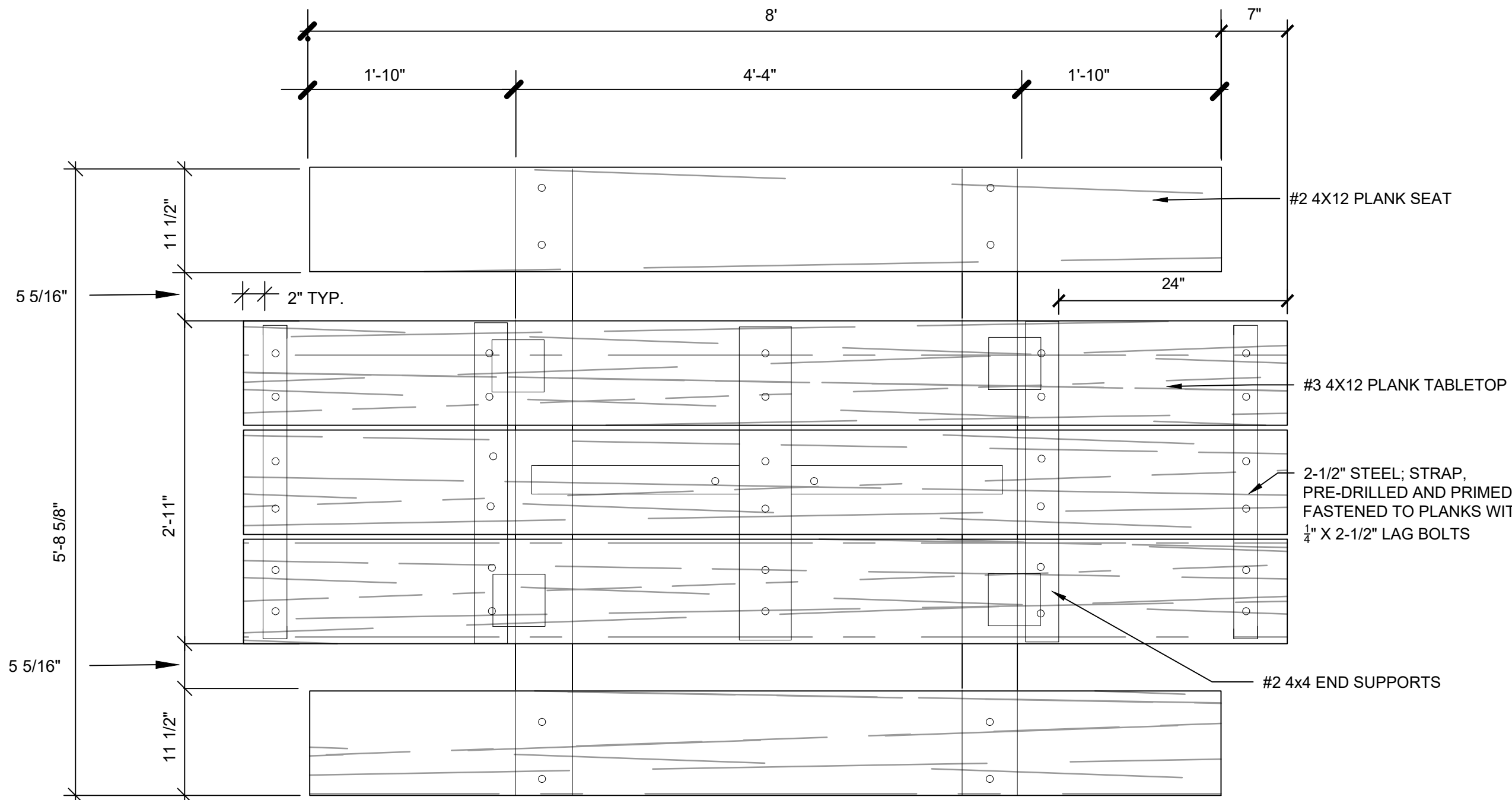


PARTIAL PERSPECTIVE

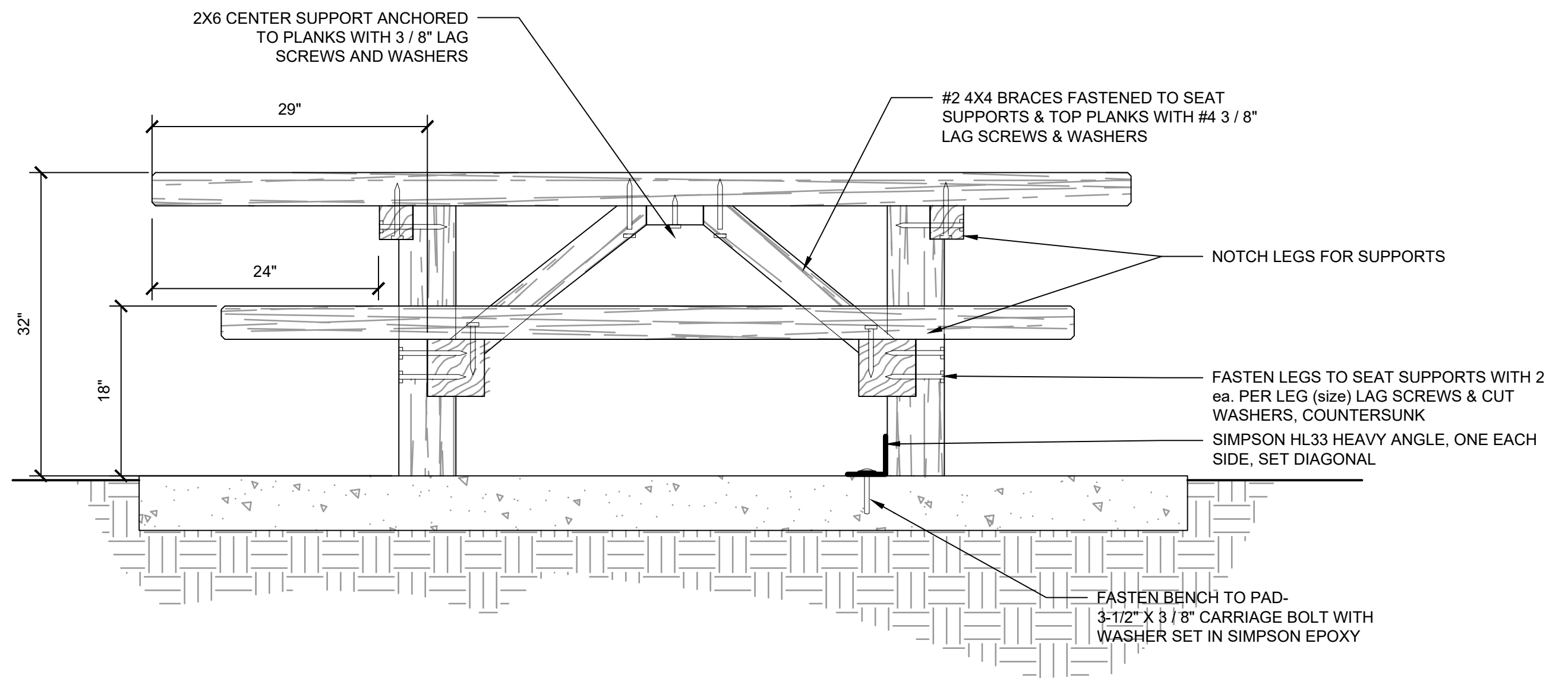
- NOTES:**
1. ALL LAG SCREWS TO PENETRATE 2" MINIMUM
 2. ALL FASTENERS FOR INSTALLATION ARE TO BE GALVANIZED OR STAINLESS STEEL
 3. ALL WOOD TO BE YELLOW ALASKA CEDAR; NO 1 CONSTRUCTION GRADE OR BETTER
 4. ALL EXPOSED FASTENERS TO HAVE MALLEABLE IRON WASHERS
 5. WOOD TO BE LIGHTLY SANDED FINISH SO THAT NO SPLINTERS
 6. ALL WOOD TO BE STAINED WITH PENOFIN TSF MARINE GRADE, COLOR '1PE'; TWO COATS MIN.



END ELEVATION

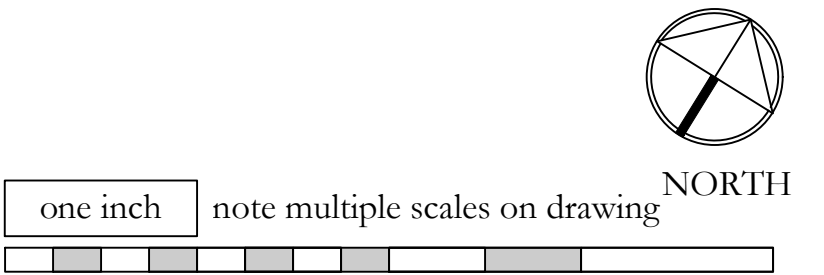


PLAN VIEW



SIDE ELEVATION

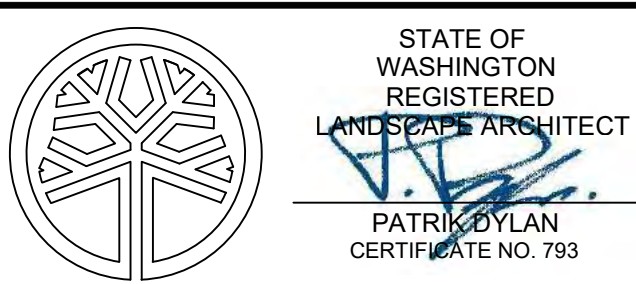
1|PICNIC TABLE
L-7|NO SCALE



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Northern State Recreation Area

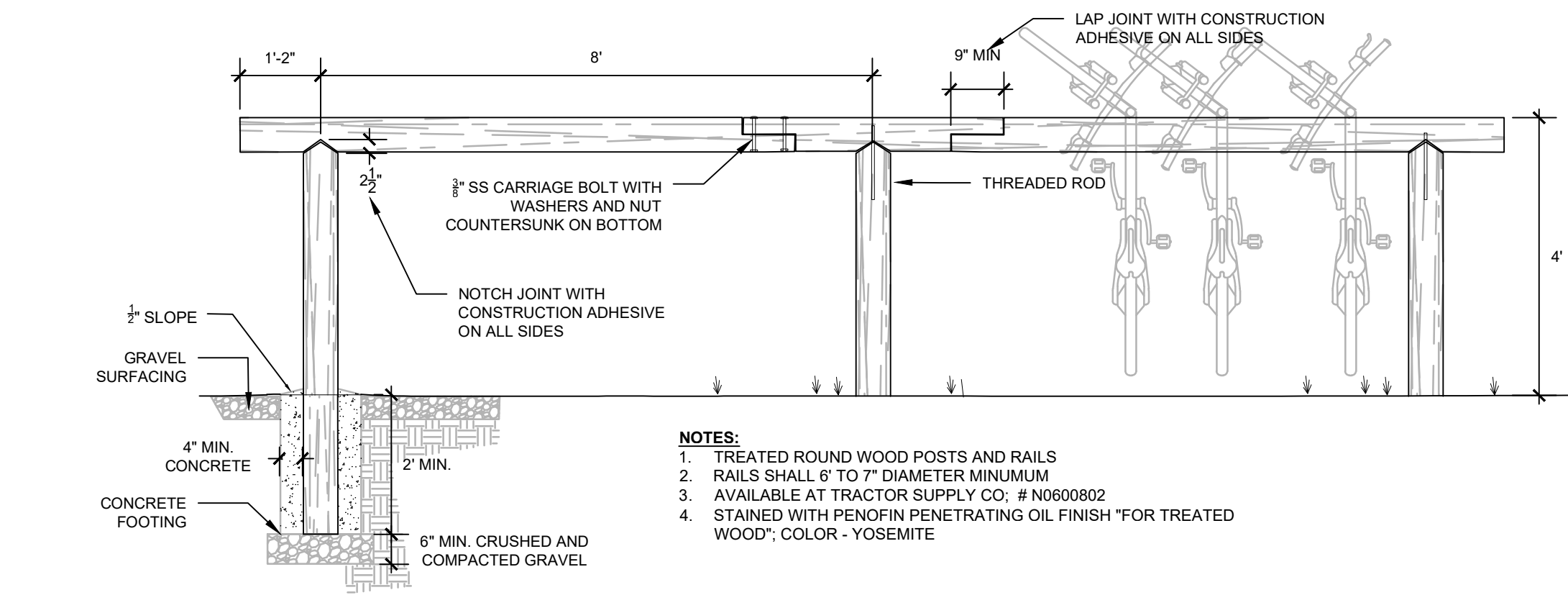
Sedro-Woolley, WA

SCALES:	
HORIZONTAL :	
VERTICAL :	N/A
DESIGNED:	PD
DRAWN:	PD
CHECKED:	PD

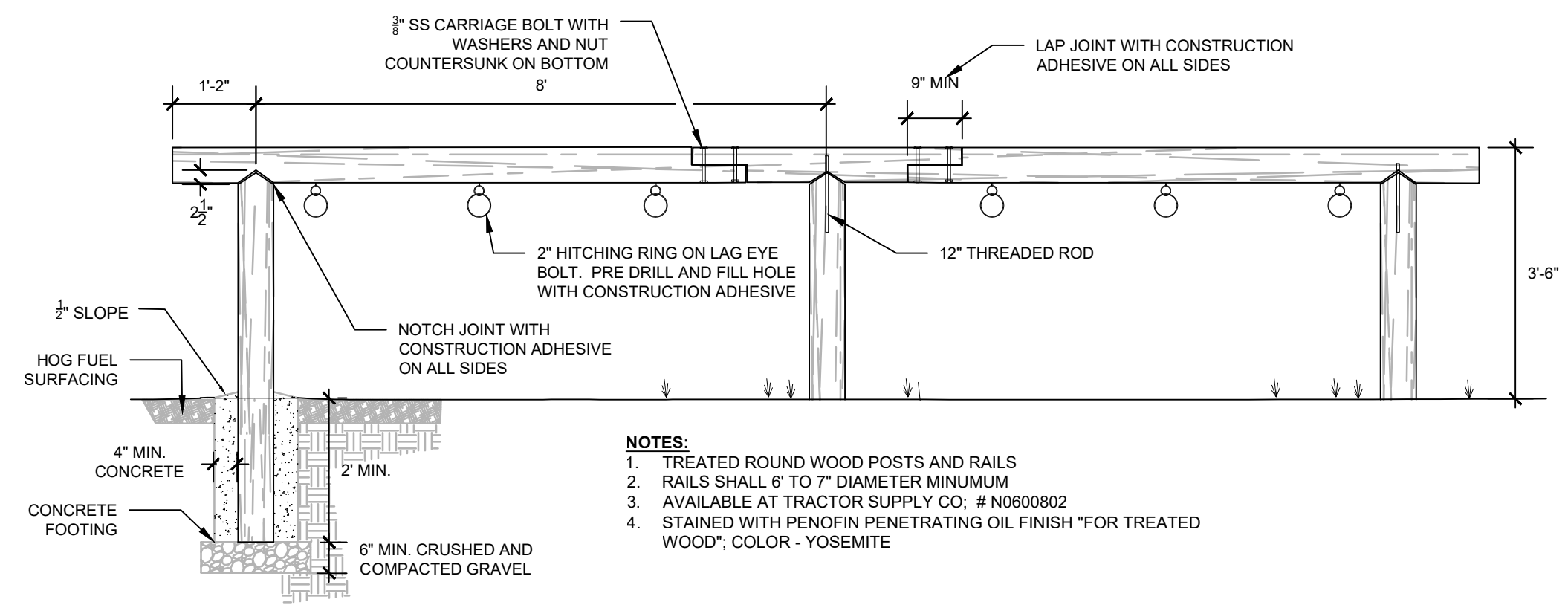
TABLE DETAILS

BID SET

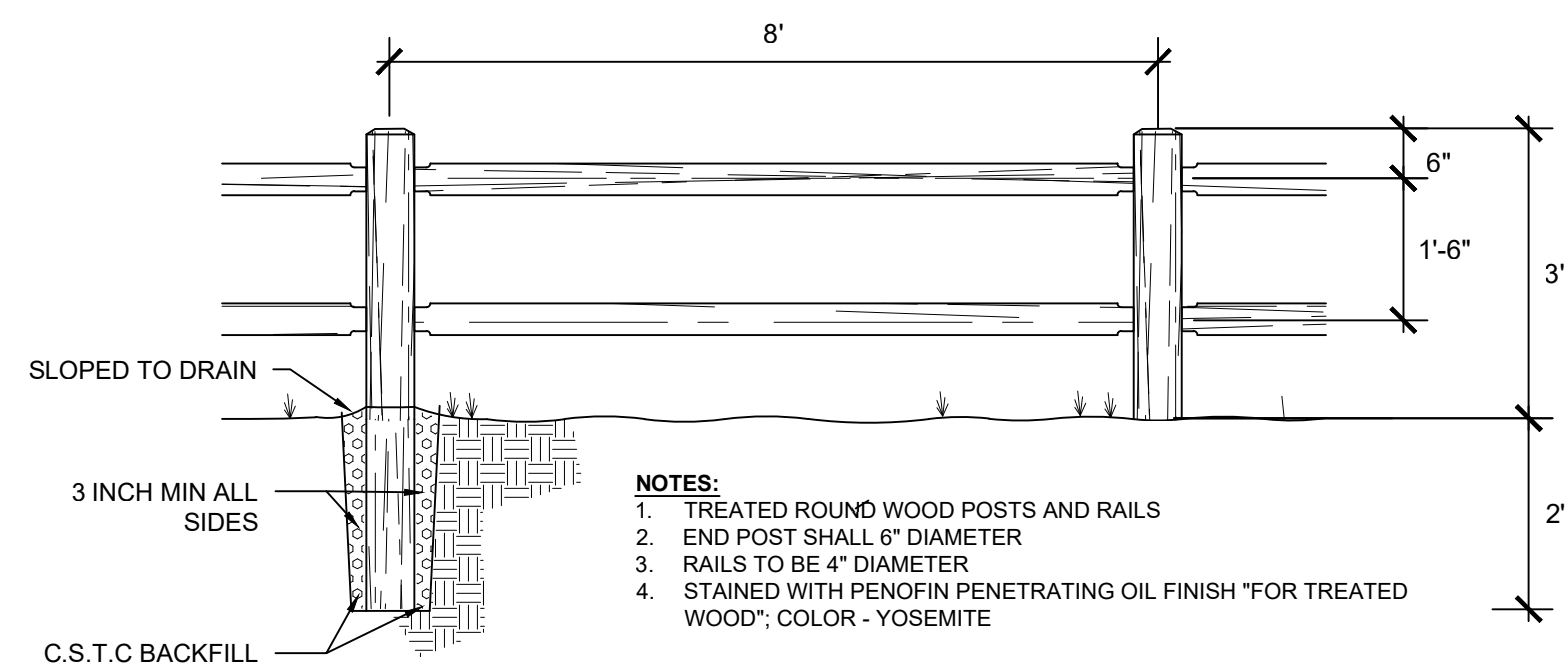
ISSUE DATE:	3.16.22
DRAWING:	1301 SCVP
JOB NO.:	1301vp
SHEET:	L-7



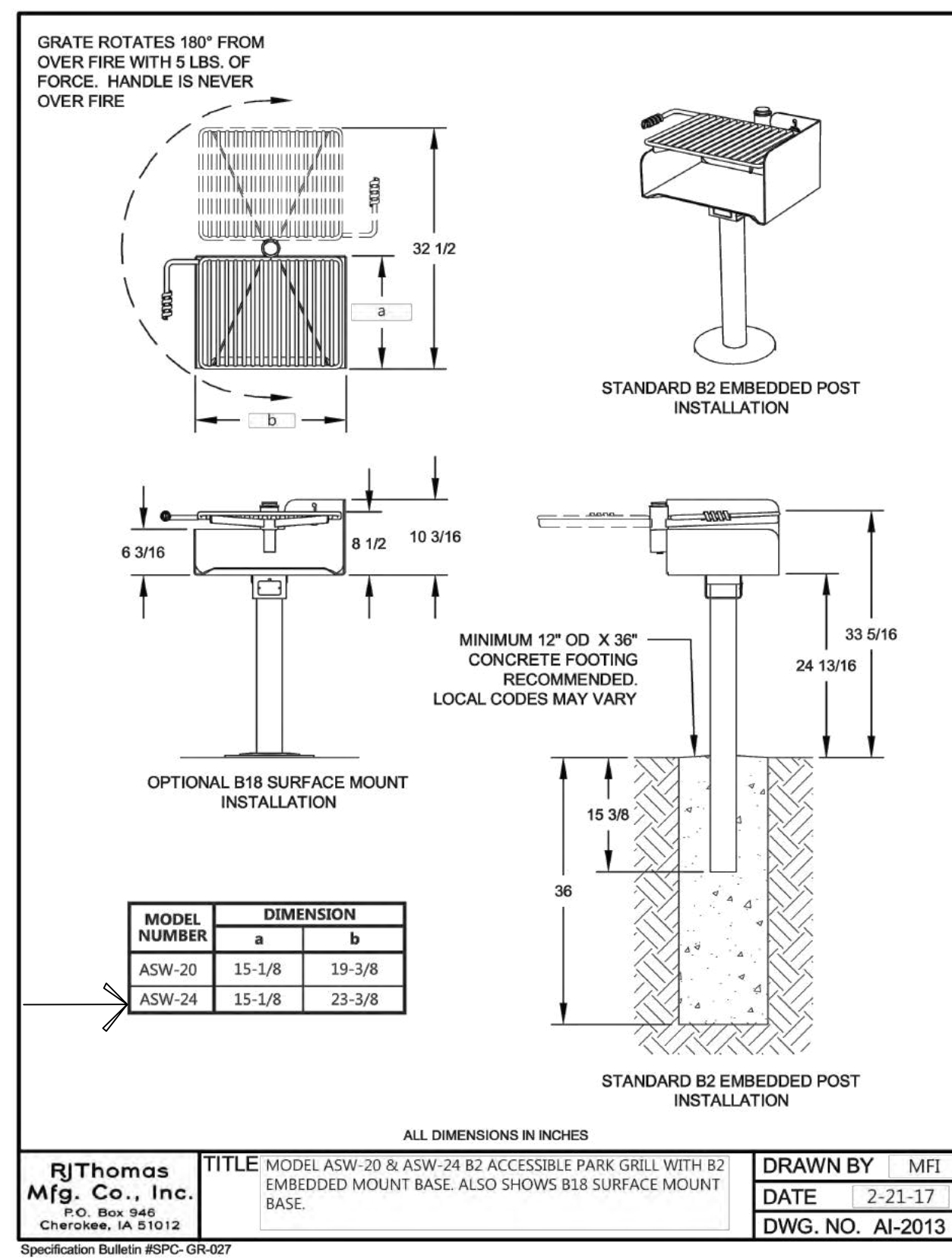
1|BIKE RACK
L-9|NO SCALE



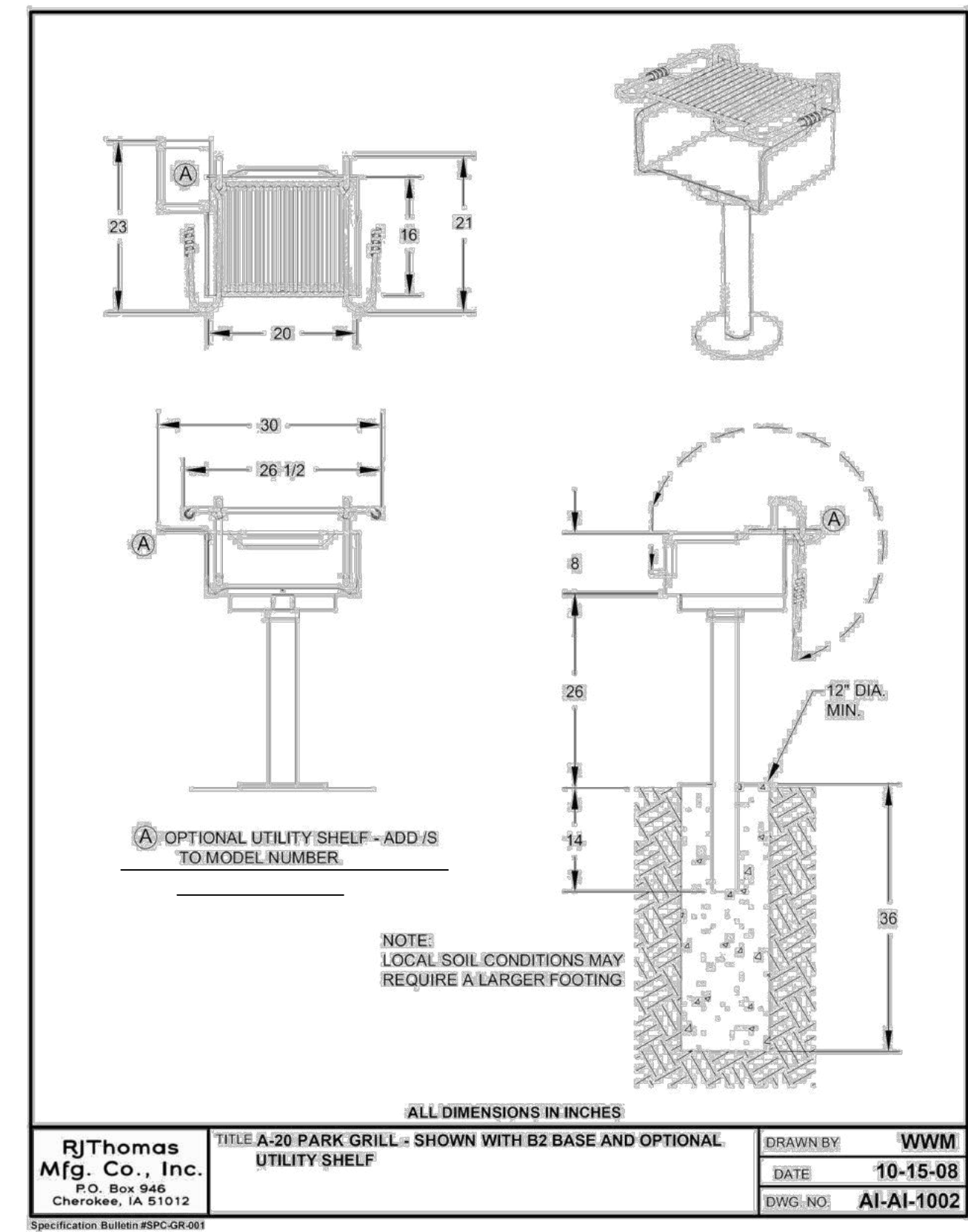
3|HITCHING POST
L-9|NO SCALE



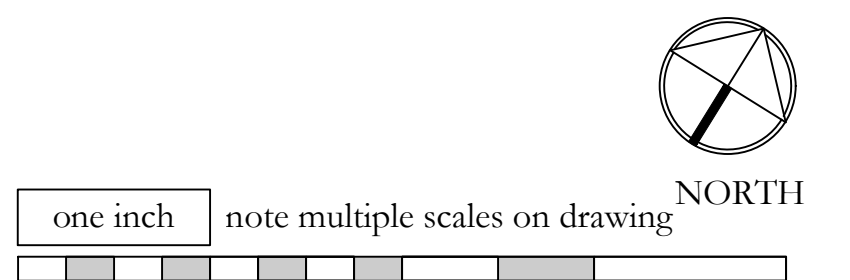
2|ROUNDED POST FENCE
L-9|NO SCALE



4|BBQ-1 (accessible)
L-9|NO SCALE



5|BBQ-2
L-9|NO SCALE



NO.	DATE	REVISION	BY	REV.
1	8.16.21	permit set	pd	pd
2	3.16.22	bid set	pd	pd

prepared for:
Skagit County Parks and Recreation
Continental Way
Mount Vernon, WA 98083
contact: Brian Adams

prepared by:
eccosDesign
Landscape Architecture and Planning
Mount Vernon, WA 98273
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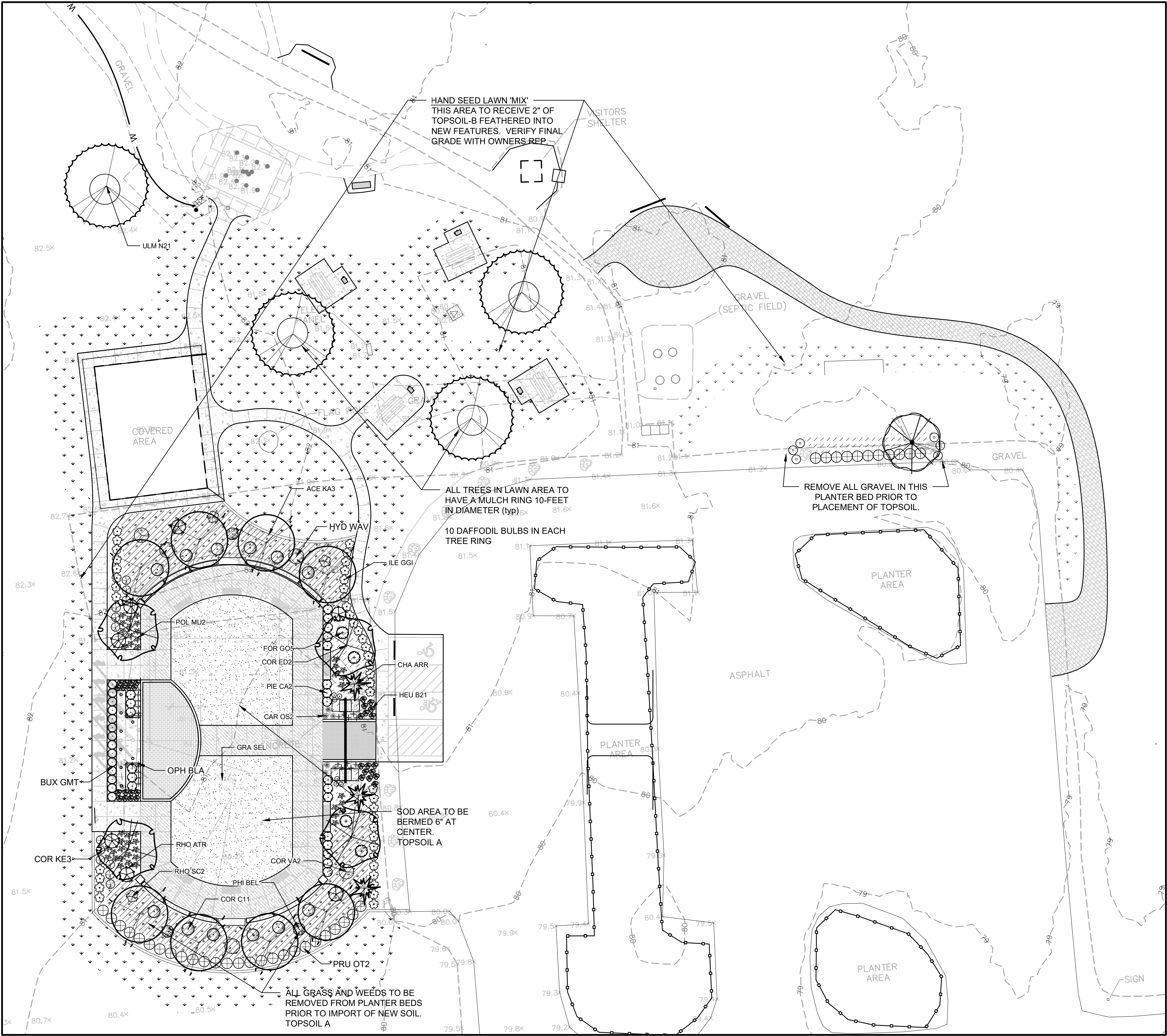
STATE OF WASHINGTON
REGISTERED
LANDSCAPE ARCHITECT
PATRIK DYLAN
CERTIFICATE NO. 793

Northern State Recreation Area
Sedro-Woolley, WA

SCALES:
HORIZONTAL :
VERTICAL : N/A
DESIGNED: PD
DRAWN: PD
CHECKED: PD

RACKS, HITCH, FENCE
AND BBQ
BID SET

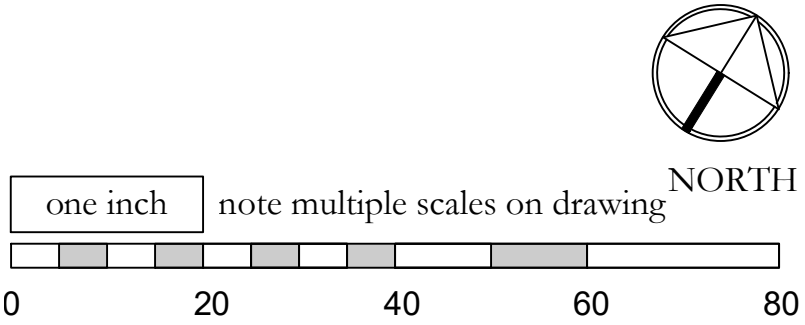
ISSUE DATE: 3.16.22
DRAWING: 1301 SCVP
JOB NO.: 1301vp
SHEET: L-9



PLANTING PLAN AT PLAZA
1" = 20'-0" (CHECK SCALE BAR FOR ACCURACY)

PLANT SCHEDULE

TREES	CODE	QTY	BOTANICAL NAME	COMMON NAME	SIZE
	ACE KA3	8	Acer rubrum 'Karpick'	Karpick Red Maple	2" Cal.
	CHA ARR	3	Chamaecyparis nootkatensis 'Green Arrow'	Green Arrow Nootka Cypress	7' Ht.
	COR ED2	4	Cornus nuttallii x florida 'Eddie's White Wonder'	Eddie's White Wonder Dogwood	2" Cal.
	FAG SYL	1	Fagus sylvatica	European Beech	2" Cal.
	ULM N21	4	Ulmus americana 'New Horizon'	New Horizon American Elm	2" Cal.
SHRUBS	CODE	QTY	BOTANICAL NAME	COMMON NAME	SIZE
	BUX GRV	7	Buxus x 'Green Velvet'	Green Velvet Boxwood	2 gal.
	COR C11	12	Cornus sanguinea 'Arctic Fire' TM	Arctic Fire Bloodtwig Dogwood	2 gal.
	COR VA2	2	Cornus stolonifera 'Elegantissima'	Variegated Redtwig Dogwood	2 gal.
	COR KE3	12	Cornus stolonifera 'Kelseyi'	Kelsey Dogwood	2 gal.
	FOR GO5	4	Forsythia x 'Goldilocks'	Goldilocks Forsythia	2 gal.
	HYD WAV	3	Hydrangea macrophylla 'Blue Wave'	Blue Wave Lacecap Hydrangea	2 gal.
	ILE GGI	43	Ilex glabra	'Gem Box' Inkberry Holly	2 gal.
	PHI BEL	3	Philadelphus x 'Belle Etoile'	Mock Orange	2 gal.
	PIE CA2	15	Pieris japonica 'Cavatine'	Lily of the Valley Bush	2 gal.
	PRU OT2	36	Prunus laurocerasus 'Otto Luyken'	Luykens Laurel	2 gal.
	RHO SC2	3	Rhododendron schlippenbachii	Royal Azalea	5 gal.
	RHO ATR	7	Rhododendron x 'Taurus'	Taurus Rhododendron	2 gal.
	SPI SP2	6	Spiraea japonica 'Little Princess'	Little Princess Japanese Spirea	2 gal.
PERENNIALS	CODE	QTY	BOTANICAL NAME	COMMON NAME	SIZE
	CAR OS2	6	Carex oshimensis 'Everoro'	Everoro Japanese Sedge	1 gal.
	HEM YH3	18	Hemerocallis x	Hybrid Daylily	1 gal.
	HEU B21	32	Heuchera x 'Black Beauty'	Coral Bells	1 gal.
	OPH BLA	24	Ophiopogon japonicus 'Black'	Black Mondo Grass	1 gal.
	POL MU2	40	Polystichum munitum	Western Sword Fern	1 gal.
GROUND COVERS	CODE	QTY	BOTANICAL NAME	COMMON NAME	SIZE
	ARC UVA	37	Arctostaphylos uva-ursi	Kinnikinnick	6"
	MAH RE3	289	Mahonia repens	Creeping Mahonia	6"
SOD/SEED	CODE	QTY	BOTANICAL NAME	COMMON NAME	SIZE
	GRA SEL	2,992 sf	Grass Sod Locally Proven	Turf	sod
	GRA ENM	23,562 sf	Low Grow Lawn Seed Mix - Locally Proven	Lawn Mix	seed



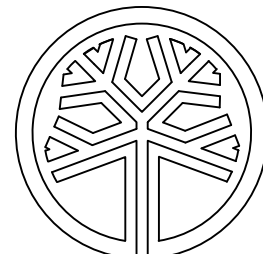
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Northern State Recreation Area

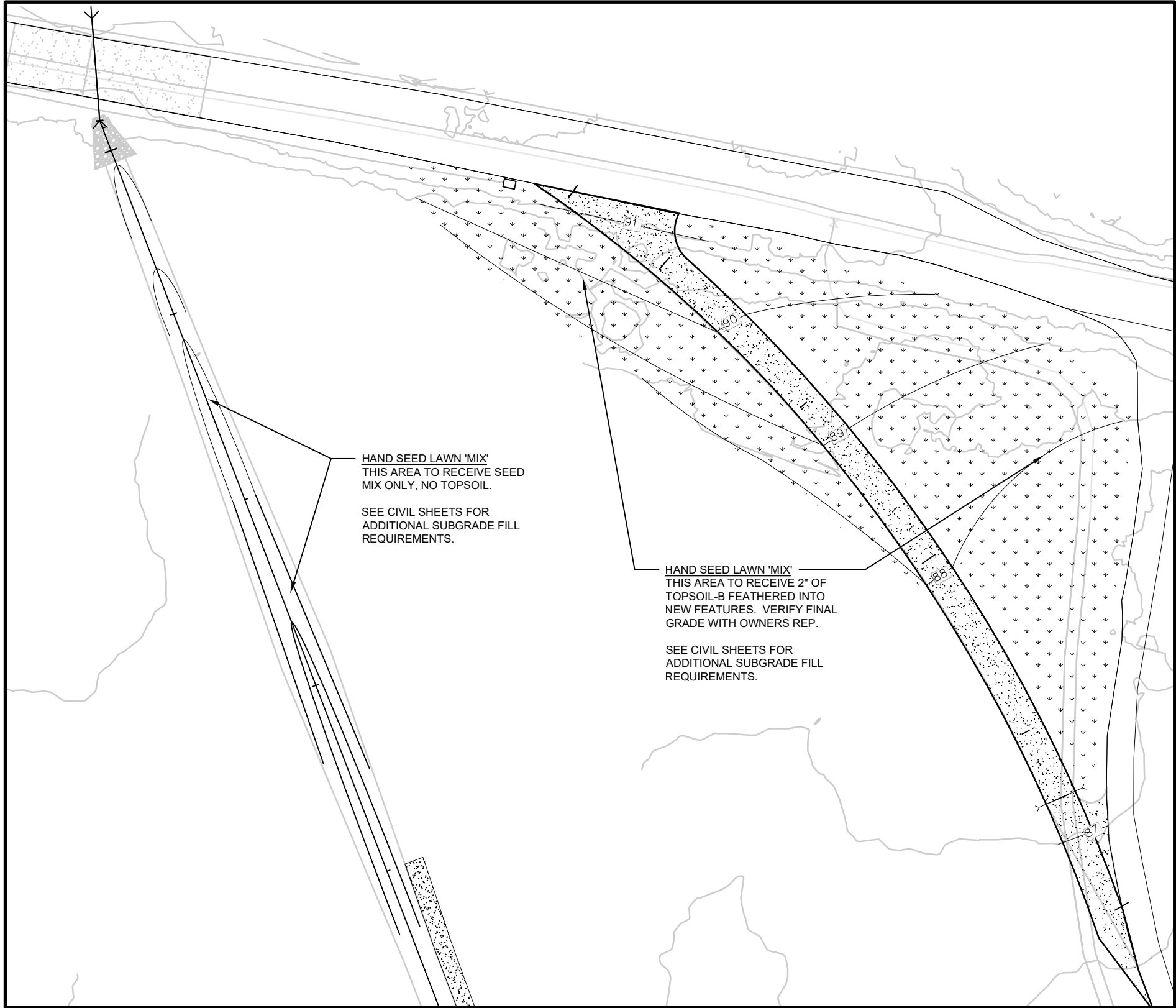
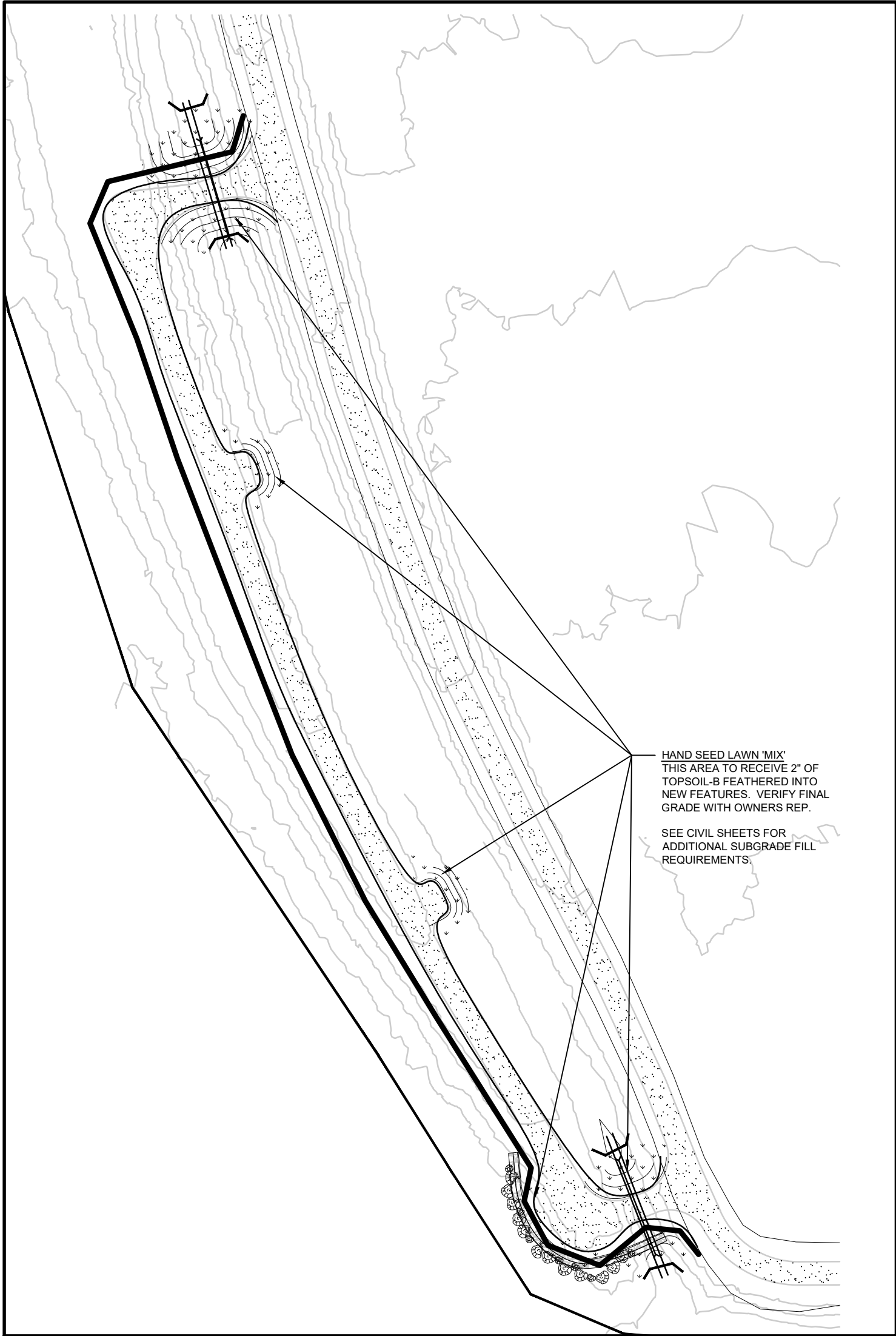
Sedro-Woolley, WA

SCALES:
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VERTICAL : N/A
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DRAWN: PD
CHECKED: PD

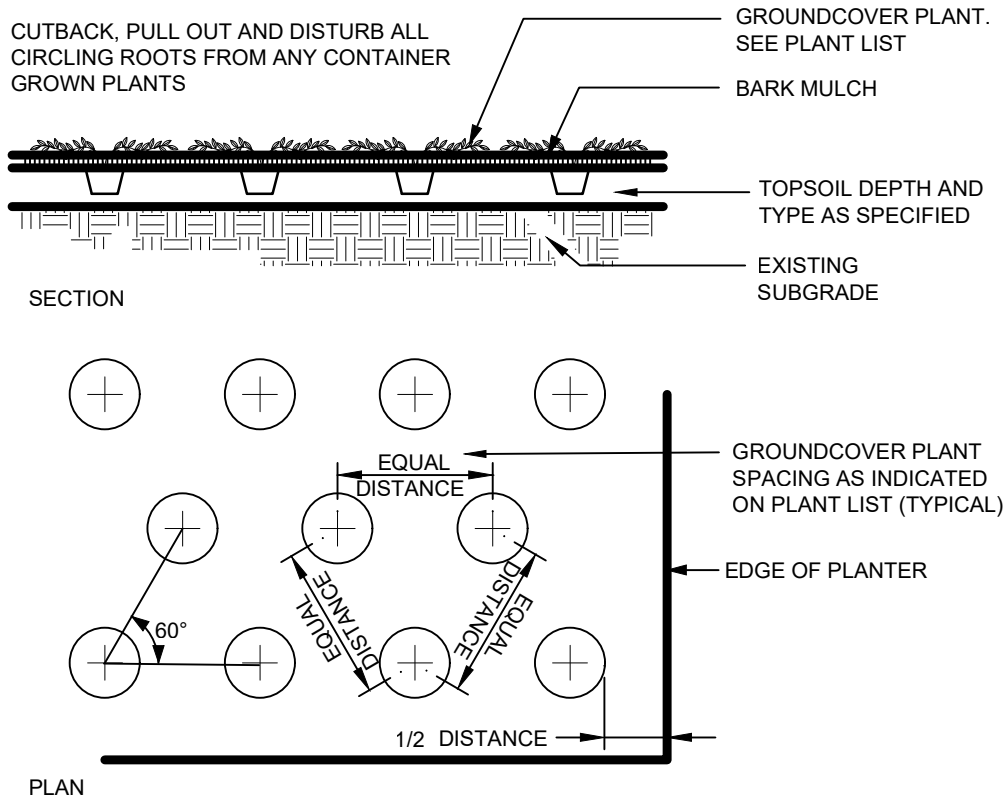
PLANTING PLAN

BID SET

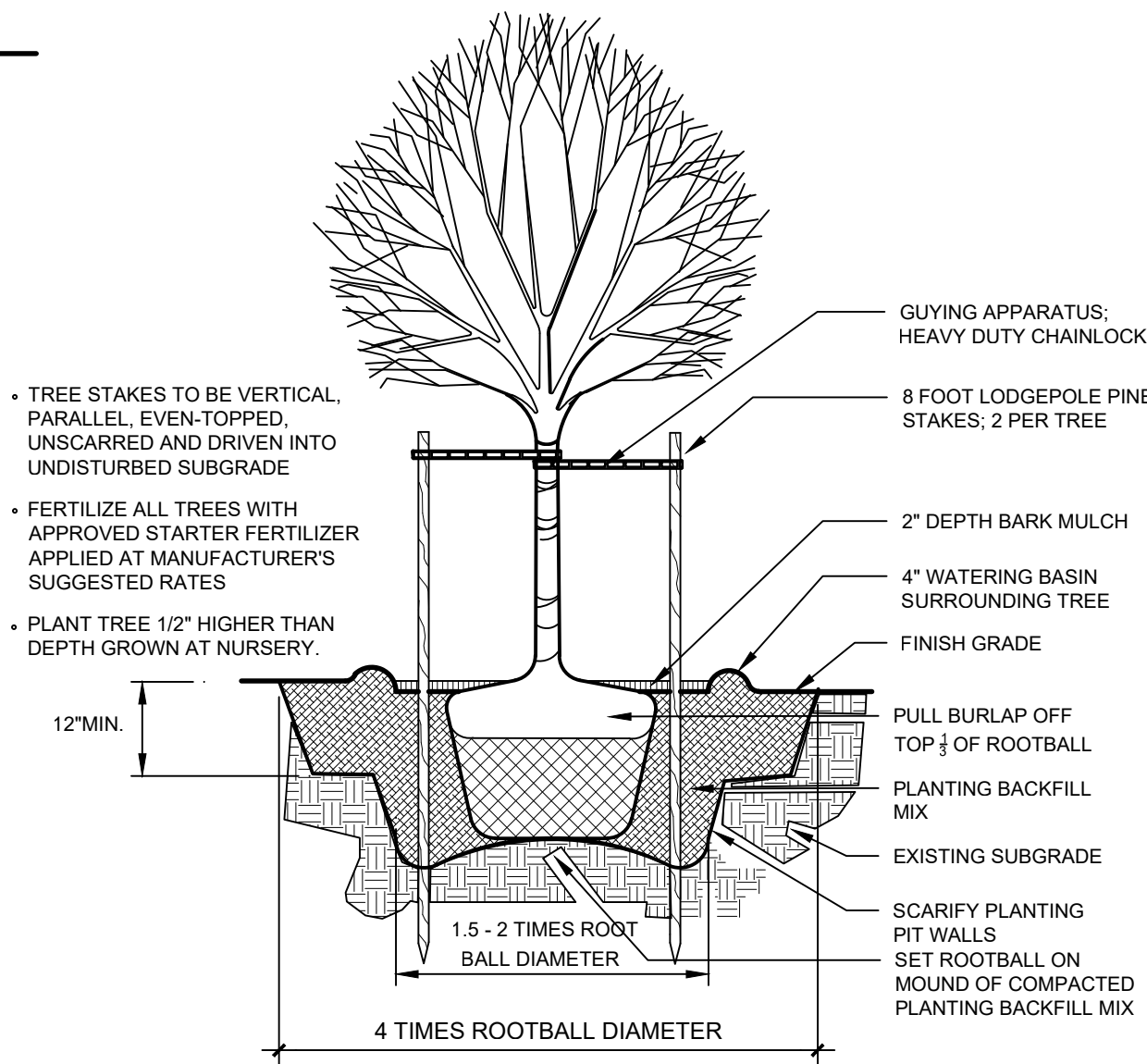
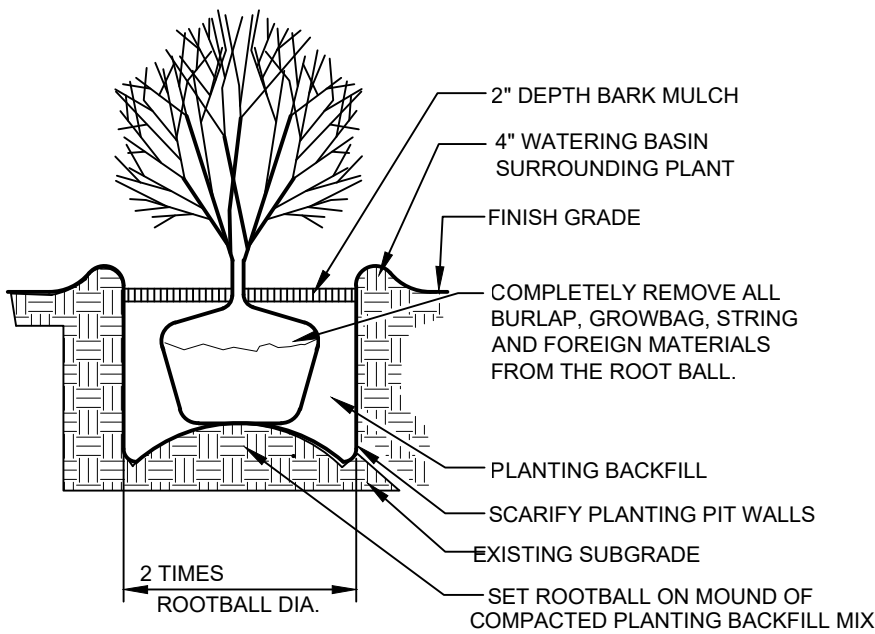
ISSUE DATE:	3.16.22
DRAWING:	1301 SCVP
JOB NO.:	1301vp
SHEET:	LP-1



PLANTING PLAN ATSIDE TRAIL AND TRAIL CONNECTION (SEEDING ONLY)
1" = 30'-0" (CHECK SCALE BAR FOR ACCURACY)



- PLANT SHRUB 1/2" HIGHER THAN DEPTH GROWN AT NURSERY
- FERTILIZE ALL PLANTS WITH APPROVED STARTER FERTILIZER APPLIED AT MANUFACTURER'S SUGGESTED RATES
- SCARIFY ROOTBALL OF CONTAINER-GROWN PLANTS. PRIOR TO BACKFILLING



1 | TYPICAL PLANTING DETAILS
L-2 | NO SCALE

GENERAL NOTES

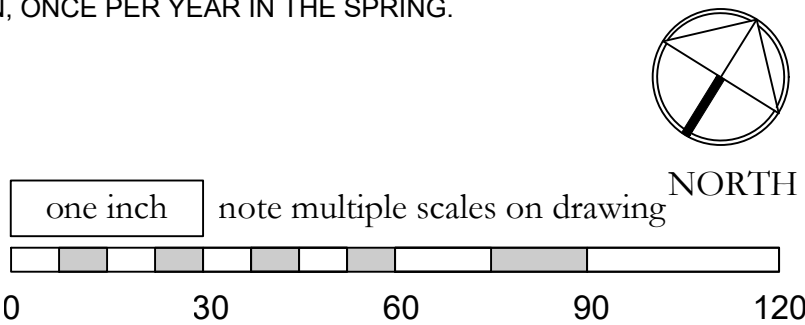
1. ALL WORK SHALL BE PERFORMED BY PERSONS FAMILIAR WITH THIS KIND OF WORK AND UNDER THE SUPERVISION OF A QUALIFIED FOREMAN.
2. ALL PLANT MATERIAL SIZES AND QUALITY TO CONFORM TO AMERICAN ASSOC. OF NURSERYMEN, AMERICAN STANDARD FOR NURSERY STOCK, MOST RECENT PUBLISHED.
3. PLANT LOCATIONS ON THE PLANS ARE DIAGRAMMATIC AND MAY BE SUBJECT TO ADJUSTMENT IN THE FIELD BY THE LANDSCAPE CONTRACTOR.
4. ALL PLANT MATERIAL SHALL BE OF NURSERY STOCK AND SHALL BE OF THE TYPE, SIZE AND CONDITION SPECIFIED. THE PLANT MATERIAL SHALL EXHIBIT NORMAL HABITS OF GROWTH FOR THE SPECIES, SHALL HAVE BUDS INTACT AND SHALL BE FREE OF DISEASE, INSECTS, SCARS, BRUISES, BREAKS, SEED AND WEED ROOTS.
5. SEE NOTES THIS SHEET FOR TOPSOIL DEPTH AND SPECIFICATION.
6. SEE SPEC THIS SHEET FOR BIORETENTION SOIL MIX. BIORETENTION SOIL MIX TO BE PLACED AT A MINIMUM DEPTH OF 12" IN THE BOTTOM OF THE BIORETENTION.
7. MEDIUM BARK MULCH IS TO BE INSTALLED AT ALL NEW PLANTING AREAS WITH A MINIMUM OF 2 INCHES.
8. ALL LANDSCAPE AREAS (**NOT-BIORETENTION**) SHALL HAVE PLANTING BACKFILL AMENDED WITH A TRANSPLANT AMENDMENT (SUPERTHRIVE OR EQUAL) AND WETTING AGENT (TERAWET OR EQUAL) APPLIED AT MANUFACTURES RECOMMENDED RATE.
9. LANDSCAPE CONTRACTOR SHALL VERIFY LOCATION OF ALL SITE UTILITIES PRIOR TO LANDSCAPE IMPLEMENTATION. PLANT LOCATIONS MAY BE ADJUSTED TO AVOID CONFLICT.
10. LANDSCAPE CONTRACTOR SHALL TAKE NECESSARY PRECAUTIONS TO PROTECT EXISTING SITE IMPROVEMENTS, PAVING, WALLS, AND UNDERGROUND UTILITIES. DAMAGE SHALL BE REPAIRED TO THE OWNER'S SATISFACTION AND AT NO ADDITIONAL COST.
11. PLANT COUNT IS FOR THE CONTRACTOR'S CONVENIENCE; IF THERE IS A DISCREPANCY, THE PLAN SHALL GOVERN. ACTUAL PLANT QUANTITIES TO BE DETERMINED BY REQUIRED PLANT SPACING.
12. ALL AREAS TO BE PLANTED WITH GROUNDCOVER ARE INDICATED ON THE PLAN WITH A HATCH PATTERN. SEE PLANT LIST FOR PLANT TYPE, SIZE, AND SPACING.
13. SUBSTITUTION OF PLANT VARIETIES DUE TO LACK OF AVAILABILITY SUBJECT TO APPROVAL BY THE OWNERS REPRESENTATIVE AND CITY.
14. ALL DIMENSIONS ARE ASSUMED TO BE PARALLEL OR PERPENDICULAR UNLESS OTHERWISE NOTED.
15. ALL SOIL GRADES TO BE A MINIMUM SIX INCHES BELOW ADJACENT FINISH FLOOR ELEVATIONS UNLESS NOTED OTHERWISE ALL GRADES ADJACENT TO A BUILDING SHALL HAVE A MAXIMUM SLOPE OF 5% 3' FROM FOUNDATION.
16. ALL GRADES, DIMENSIONS AND EXISTING CONDITIONS SHALL BE VERIFIED BY THE CONTRACTOR PRIOR TO CONSTRUCTION. ANY DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE LANDSCAPE ARCHITECT.
17. BASEMAP PROVIDED BY SEMRAU ENGINEERS, MOUNT VERNON, WA, 360-424-9566

SOIL NOTES

1. CONTRACTOR MAY STOCKPILE SITE TOPSOIL FOR POSSIBLE RE-USE IN LANDSCAPE BEDS. STOCKPILED TOPSOIL TO BE APPROVED BY OWNERS REPRESENTATIVE. ROAD BASE, GLACIAL TILL, GRAVEL OR CONTAMINATED SOILS ARE NOT ACCEPTABLE AND WILL BE REJECTED.
2. SITE TOPSOIL SHALL HAVE ALL ROCKS, GRASS CLODS AND DEBRIS LARGER THAN 1" WHENEVER VISIBLE ON THE SURFACE
3. EXISTING SITE TOPSOIL TO BE AMENDED WITH COMPOST AT A RATIO OF 3:1. 3 UNITS OF EXISTING SOIL TO ONE UNIT OF COMPOST. COMPOST TO BE WSDOT CERTIFIED.
4. IN LIEU OF AMENDING SITE TOPSOIL CONTRACTORS MAY CHOOSE TO USE IMPORTED 2-WAY TOPSOIL.
5. TOPSOIL DEPTHS
 - 5.1. TOPSOIL TO BE PLACED AT A MINIMUM OF 9" IN ALL LANDSCAPE BED AREAS AND INCORPORATED INTO EXISTING SUBGRADE. LIGHTLY TAMP 6" LAYERS OF SOIL BY HAND OR LIGHTLY WITH EXCAVATOR.
 - 5.2. TOPSOIL TO BE PLACE AT AT MINIMUM OF 12" IN ALL TREE-PIT AREAS. SEE DETAIL THIS PAGE.
 - 5.3. LAWN / GRASS AREA HAVE A MINIMUM 2" PROFILE OF TOPSOIL OR EXTENT OF SEEDED AREA.
6. TOPSOIL SHALL NOT BE MOVED, MIXED OR PLACE WHILE SATURATED.
7. IN ALL INSTANCES, PLACED TOPSOIL TO BE INCOPRORTED INTO EXISTING GRADE.

MAINTENANCE NOTES

1. UNDER NO CIRCUMSTANCE ARE STREET TREES TO BE TOPPED OR PRUNED WITHOUT PERMISSION OF THE CITY ARBORIST.
2. UNDER NO CIRCUMSTANCE ARE SHRUBS TO BE SHEARED OR SHAPED WITHOUT EXPLICIT PERMISSION FROM THE OWNER. SHRUBS ARE DESIGNED TO FILL AND GROW IN TO A PERMANENT MATURE SIZE.
3. GROUNDCOVER THAT GROWS 'OUT' OF BEDS AND INTO ADJACENT WALKS OR ROADS ARE TO BE CUT-BACK AS NEEDED.
4. PERENNIAL AND GRASSES WHICH ARE DECIDUOUS MAY BE CUT BACK AT OWNERS DISCRETION, ONCE PER YEAR, DURING THE MONTHS OF FEBRUARY, MARCH OR APRIL.
5. LAWN TO BE FERTILIZED ONCE PER YEAR MIN PER PRODUCT INSTRUCTIONS.
6. WEEDS TO BE REMOVED IN A TIMELY MANNER BY MECHANICAL OR CHEMICAL MEANS, IN COMPLIANCE WITH ALL LOCAL AND STATE GUIDELINES AND REQUIREMENTS.
7. BARK MULCH IN PLANTER BEDS TO BE TOPPED OFF WITH 1" LIFT MIN, ONCE PER YEAR IN THE SPRING.

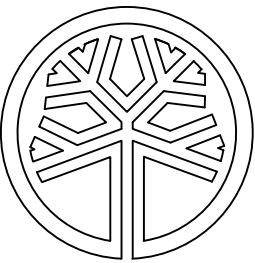


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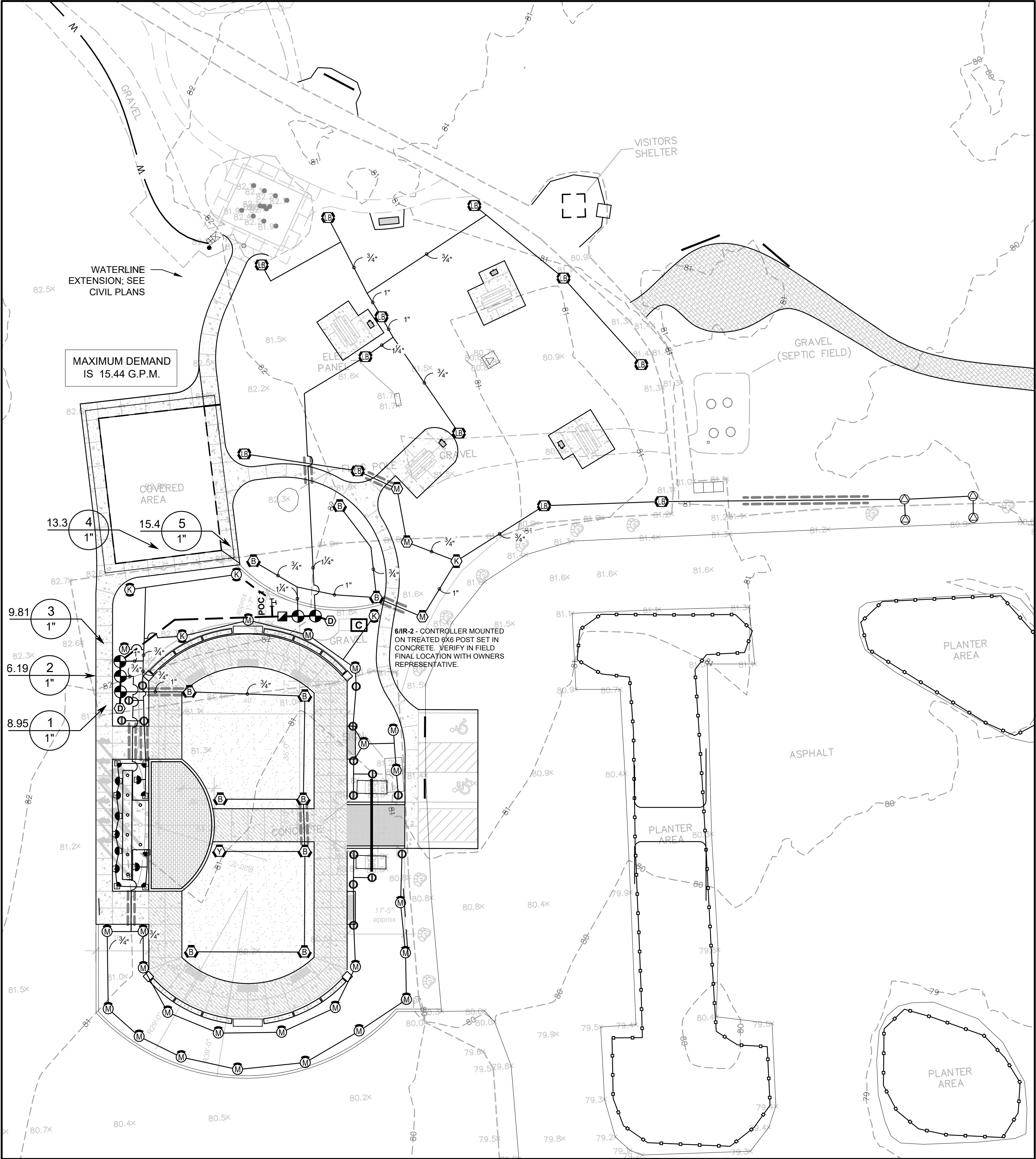
Sedro-Woolley, WA

SCALES:
HORIZONTAL : 1" = 30'
VERTICAL : N/A
DESIGNED: PD
DRAWN: PD
CHECKED: PD

PLANTING DETAILS

BID SET

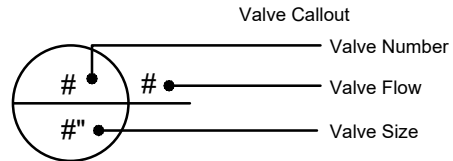
ISSUE DATE: 3.16.22
DRAWING: 1301 SCVP
JOB NO.: 1301vp
SHEET: **LP-2**



IRRIGATION PLAN
1" = 20'-0" (CHECK SCALE BAR FOR ACCURACY)

IRRIGATION SCHEDULE

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	QTY
	Hunter PROS-12-PRS30 short radius nozzles Shrub Spray, 30 psi regulated 12" Pop-Up. Co-molded wiper seal with UV Resistant Material.	6
	Hunter PROS-12-PRS30 5' radius Shrub Spray, 30 psi regulated 12" Pop-Up. Co-molded wiper seal with UV Resistant Material.	8
	Hunter MP1000 PROS-06-PRS40-CV Turf Rotator, 6" 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.	3
	Hunter MP2000 PROS-06-PRS40-CV Turf Rotator, 6" pop-up with factory installed check valve, pressure regulated to 40 psi, MP Rotator nozzle on PRS40 body. K=Black adj arc 90-210, G=Green adj arc 210-270, R=Red 360 arc.	1
	Hunter MP3000 PROS-06-PRS40-CV Turf Rotator, 6" 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.	11
	Hunter MP3500 PROS-06-PRS40-CV Turf Rotator, 6.0" 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.	12
	Hunter MP Strip PROS-12-PRS40-CV Shrub Rotator, 12" pop-up with factory installed check valve, pressure regulated to 40 psi, MP Rotator nozzle. LST=Ivory left strip, SST=Brown side strip, RST=Copper right strip, on PRS40 body.	4
	Hunter MP1000 PROS-12-PRS40-CV Shrub Rotator, 12" pop-up with check valve, 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 on PRS40 body.	24
	Hunter MP2000 PROS-12-PRS40-CV Shrub Rotator, 12" pop-up with check valve, pressure regulated to 40 psi, MP Rotator nozzle. K=Black adj arc 90-210, G=Green adj arc 210-270, R=Red 360 arc on PRS40 body.	4
	Hunter MP800SR PROS-12-PRS40-CV Shrub Rotator, 12.0" pop-up with check valve, pressure regulated to 40 psi, MP Rotator nozzle on PRS40 body. OR = Orange adj arc 90 to 210.	15
SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	QTY
	Hunter ICV-G 1" 1", 1-1/2", 2", and 3" Plastic Electric Remote Control Valves, Globe Configuration, with NPT Threaded Inlet/Outlet, for Commercial/Municipal Use.	5
	Hunter HQ-33DRC 3/4" Quick coupler valve, yellow rubber cover, red brass and stainless steel, with 3/4" NPT inlet, 2-piece body.	1
	Drain Valve	2
	Hunter PC-400 with (01) PCM-300 Light Commercial & Residential Controller, 7-station expanded module controller, 120 VAC, Outdoor model	1
	Point of Connection 1"	1
	Irrigation Lateral Line: PVC Schedule 40	16.8 l.f.
	Irrigation Lateral Line: PVC Schedule 40 3/4"	1,500 l.f.
	Irrigation Lateral Line: PVC Schedule 40 1"	102.1 l.f.
	Irrigation Lateral Line: PVC Schedule 40 1 1/4"	108.3 l.f.
	Irrigation Mainline: PVC Schedule 40	48.5 l.f.
	Irrigation Mainline: PVC Schedule 40 1 1/2"	43.0 l.f.
	Pipe Sleeve: PVC Schedule 80	114.0 l.f.



IRRIGATION NOTES:

- ALL WORK SHALL BE PERFORMED BY PERSONS FAMILIAR WITH THIS KIND OF WORK AND UNDER THE SUPERVISION OF A QUALIFIED FOREMAN.
- THE INFORMATION ON THE IRRIGATION PLANS IS DIAGRAMMATIC ONLY. CONFLICTS WITH EXISTING CONDITIONS AND INFORMATION PROVIDE ON CONTRACT DRAWING SHOULD BE BROUGHT TO THE ATTENTION OF THE OWNER OR OWNER 'S REPRESENTATIVE.
- QUANTITIES IN THE LEGEND ARE PROVIDED FOR CONTRACTORS CONVENIENCE AND DUE TO THE DIAGRAMMATIC NATURE OF THE DRAWING SHOULD ONLY BE USED AS ESTIMATES; IF THERE IS A DISCREPANCY, THE PLAN SHALL GOVERN. ACTUAL QUANTITIES DETERMINED BY IRRIGATION HEAD SPACING.
- LOCATE AND VERIFY ALL UTILITY LINES PRIOR TO EXCAVATION OR CONSTRUCTION.
- THE IRRIGATION SYSTEM SHALL BE MAINTAINED INCLUDING ADJUSTMENTS FOR BALANCED WATER DISTRIBUTION AND PRECIPITATION. FAILED OR MALFUNCTIONING EQUIPMENT SHALL BE REPLACED OR CORRECTED BY CONTRACTOR.
- OPERATION PRESSURE A SPRAY HEADS SHALL BE APPROXIMATELY 30 PSI. STATIC PRESSURE AT METER SHOULD BE A MINIMUM OF 50 PSI. SYSTEM SHALL OPERATE BETWEEN 50 AND 70 PSI. **CONTRACTOR TO VERIFY AVAILABLE PRESSURE.**
- PVC SLEEVES SHALL BE INSTALLED AT ALL CROSSING OF SIDEWALKS, WALLS, AND PAVEMENT AND SHALL BE TWICE THE DIAMETER OF THE PIPE OR PIPES PASSING THROUGH THE SLEEVES. SLEEVES ARE SHOWN ON THE IRRIGATION PLAN AT APPROXIMATE LOCATIONS.
- PIPING IS SIZED TO ENSURE WATER VELOCITIES OF LESS THAN 5 FEET PER SECOND AND TO ENSURE MINIMUM PRESSURE LOSS IN THE PIPING.
- LOCATION OF VALVES AND PIPING WILL VARY WHEN INSTALLED. PLACE PIPE IN COMMON TRENCHES AND VALVES AT EDGES OF LAWNS OR PLANTING BEDS. PIPE ROUTING SHALL FOLLOW CONTRACT DRAWINGS AS CLOSELY AS POSSIBLE.
- WHERE THE FIELD CONDITIONS REQUIRE ADJUSTMENTS, HEADS SHALL BE ADDED OR DELETED IN ACCORDANCE WITH THE IRRIGATION LEGEND OR MANUFACTURES SPECIFICATIONS. PIPE SIZING SHALL BE ADJUSTED ACCORDINGLY, AND THE WATER VELOCITY SHALL NOT EXCEED 5 FEET PER SECOND.
- INSTALL V.A.N. (VARIABLE ARC NOZZLES) AS REQUIRED ON ALL SPRAY SPRINKLERS.
- PROVIDE ONE SPARE WIRE TO RUN FROM CONTROLLER TO END VALVE ON EACH LEG OF THE MAINLINE. IDENTIFY EACH SPARE AT THE CONTROLLER. LOOP A 24" COIL OF SPARE WIRE INSIDE EACH VALVE BOX.
- VALVE BOXES SHALL BE AMTEX OR APPROVED EQUAL AND LOCATED ON PLANTING AREAS IF POSSIBLE (TWO VALVES PER BOX)
- SURVEY INFORMATION FOR BUILDING FOOTPRINTS AND ROADS PROVIDED BY ENGINEER. WALLS, SIDEWALKS, AND DRIVEWAYS ARE PROVIDED BASED ON PRE-CONSTRUCTION INFORMATION AND MAY VARY FROM PLAN. VERIFY IN FIELD.



one inch note multiple scales on drawing

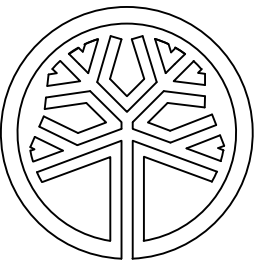
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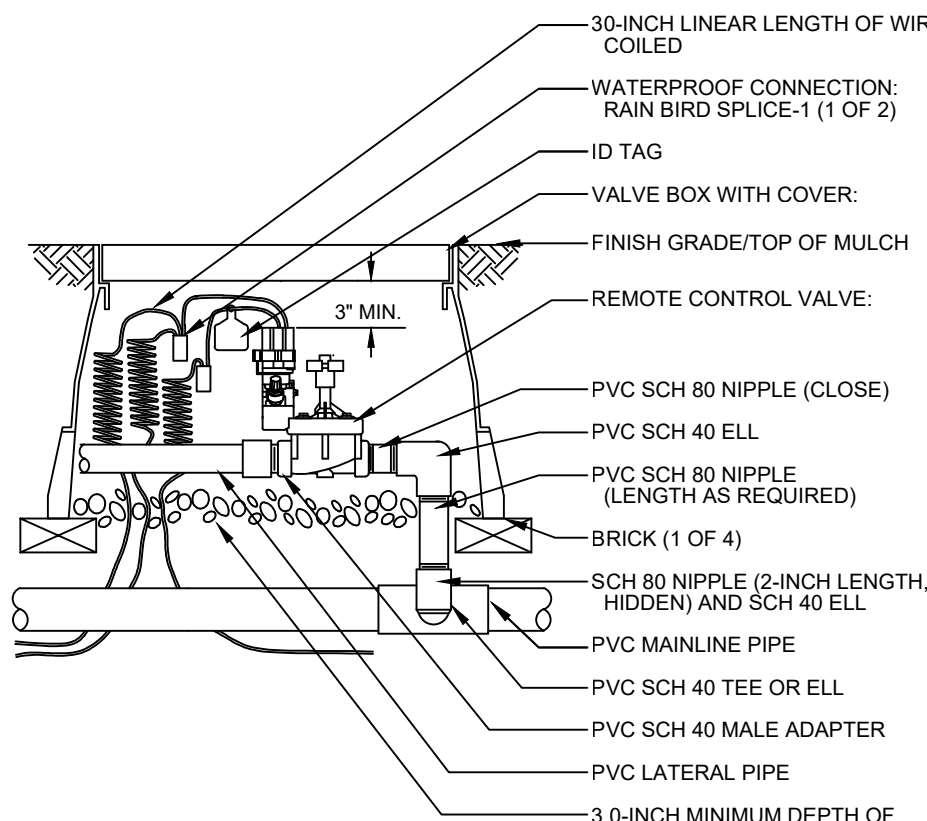
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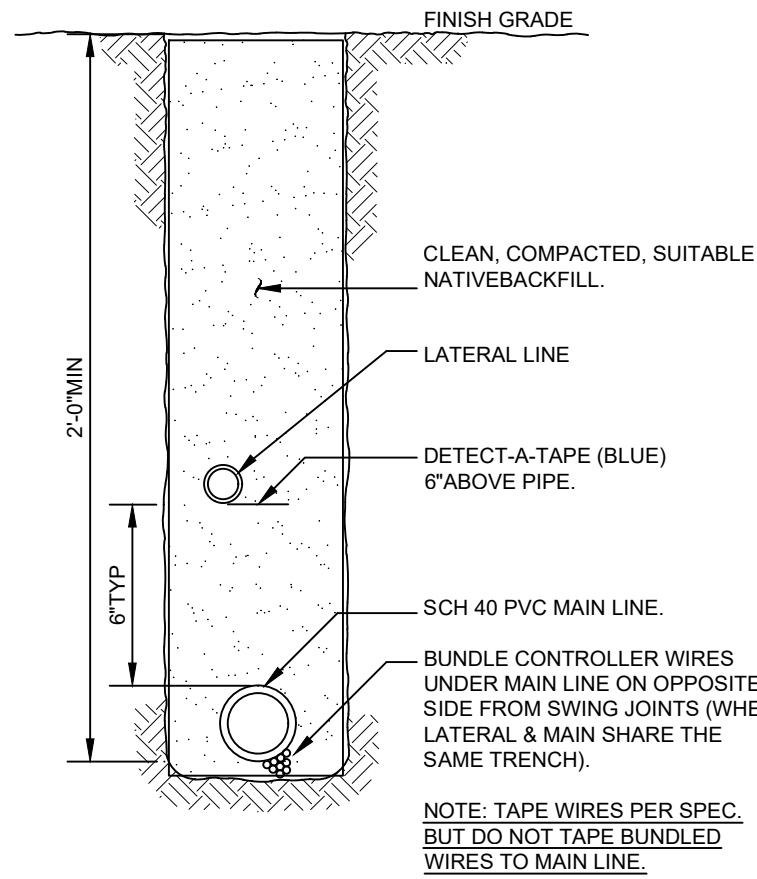
IRRIGATION PLAN

BID SET

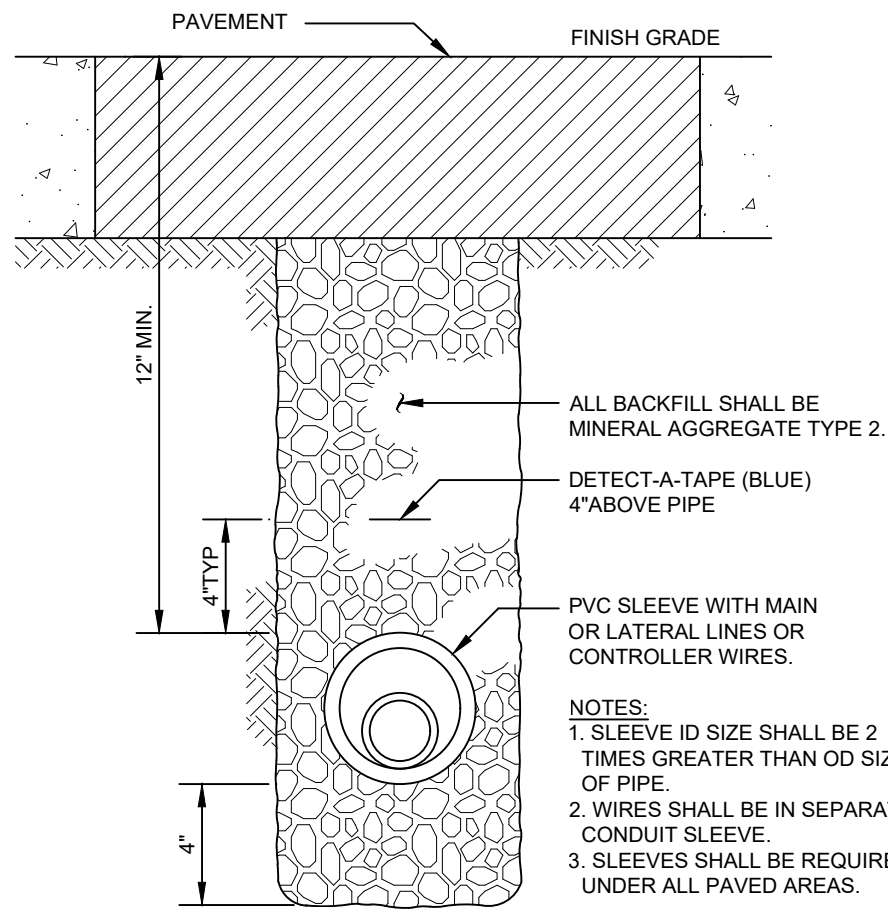
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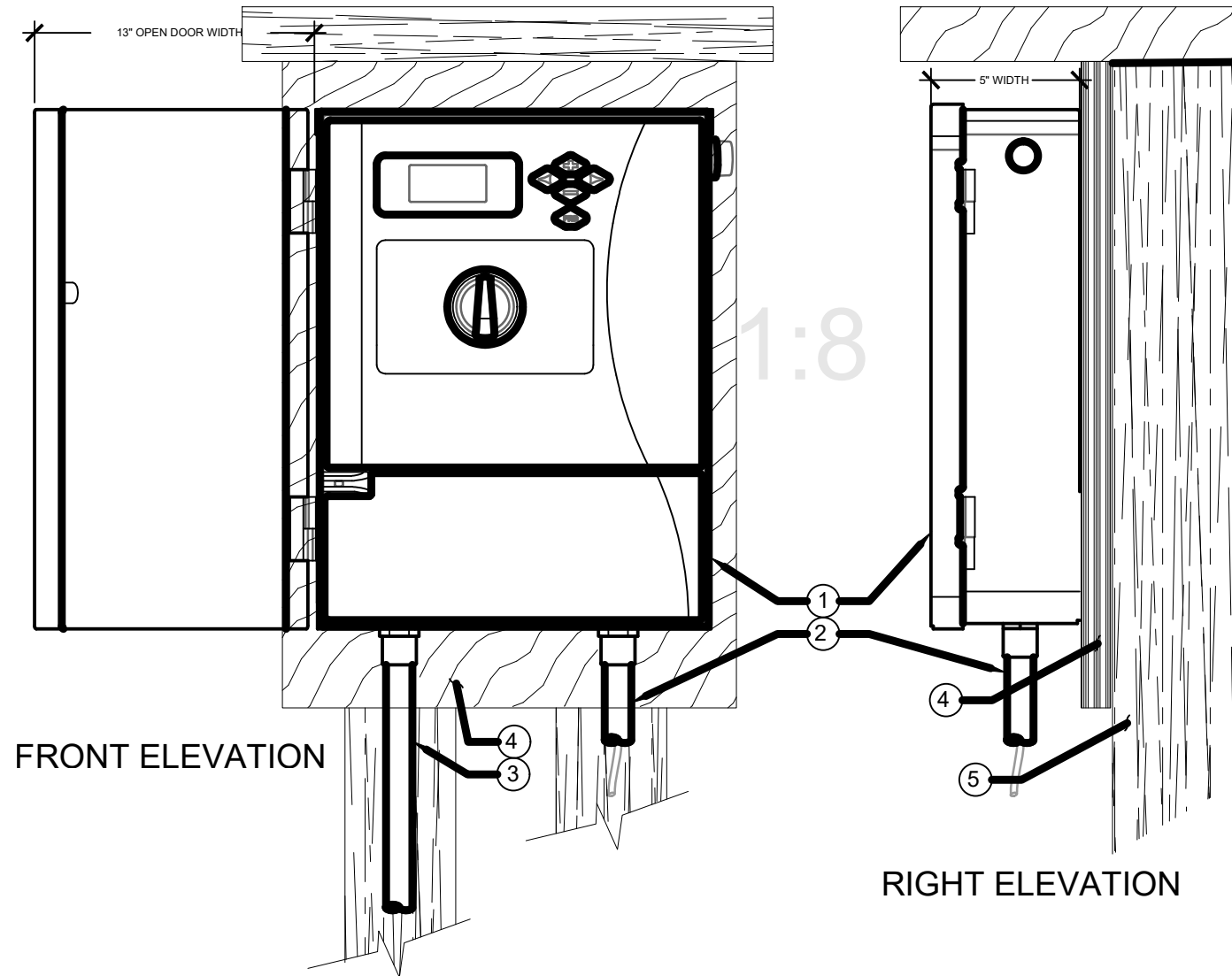
1 CONTROL VALVE ASSEMBLY
IR-2 NO SCALE



2 TYPICAL TRENCHING
IR-2 NO SCALE

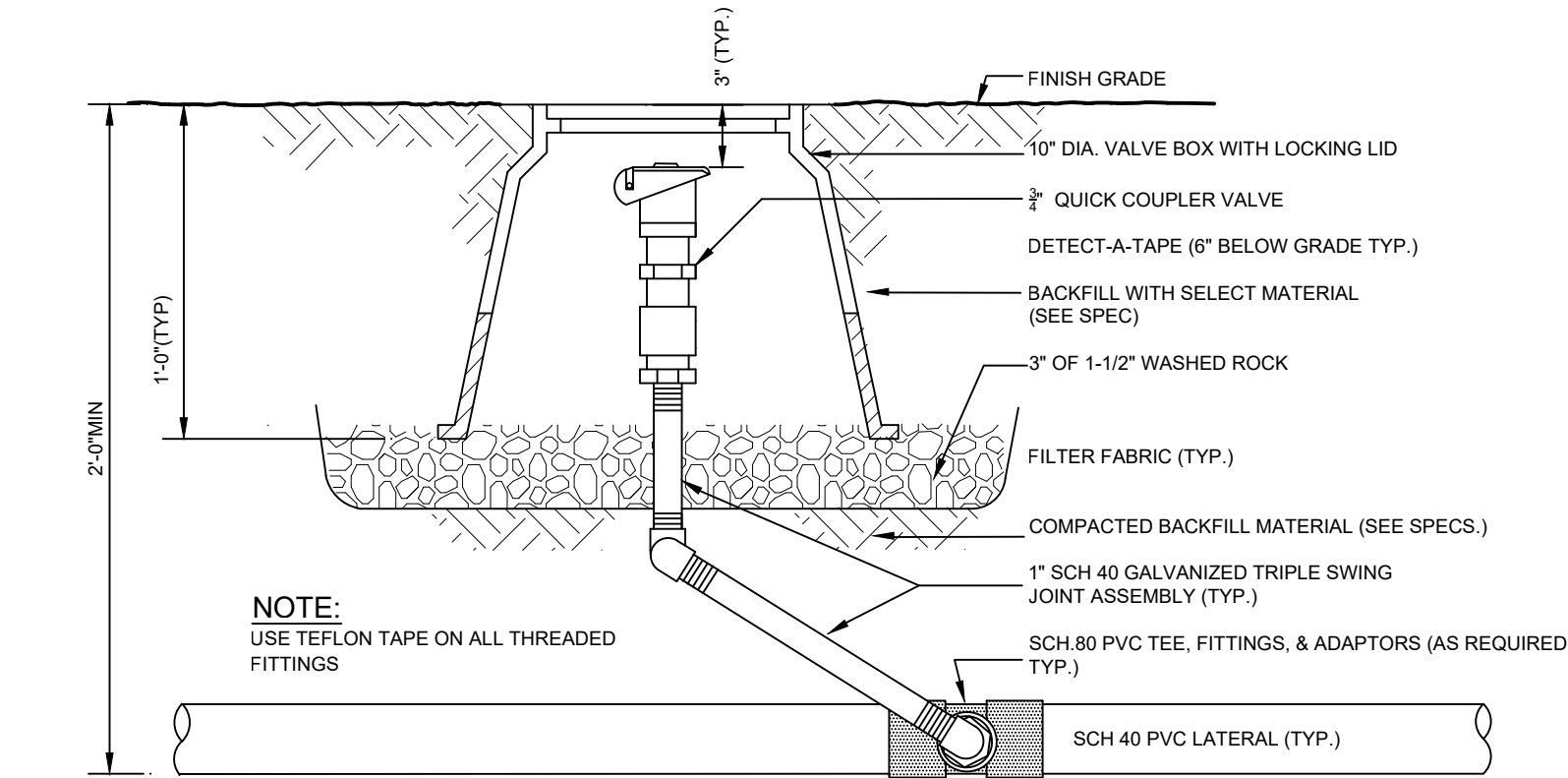


3 IRRIGATION SLEEVES
IR-2 NO SCALE

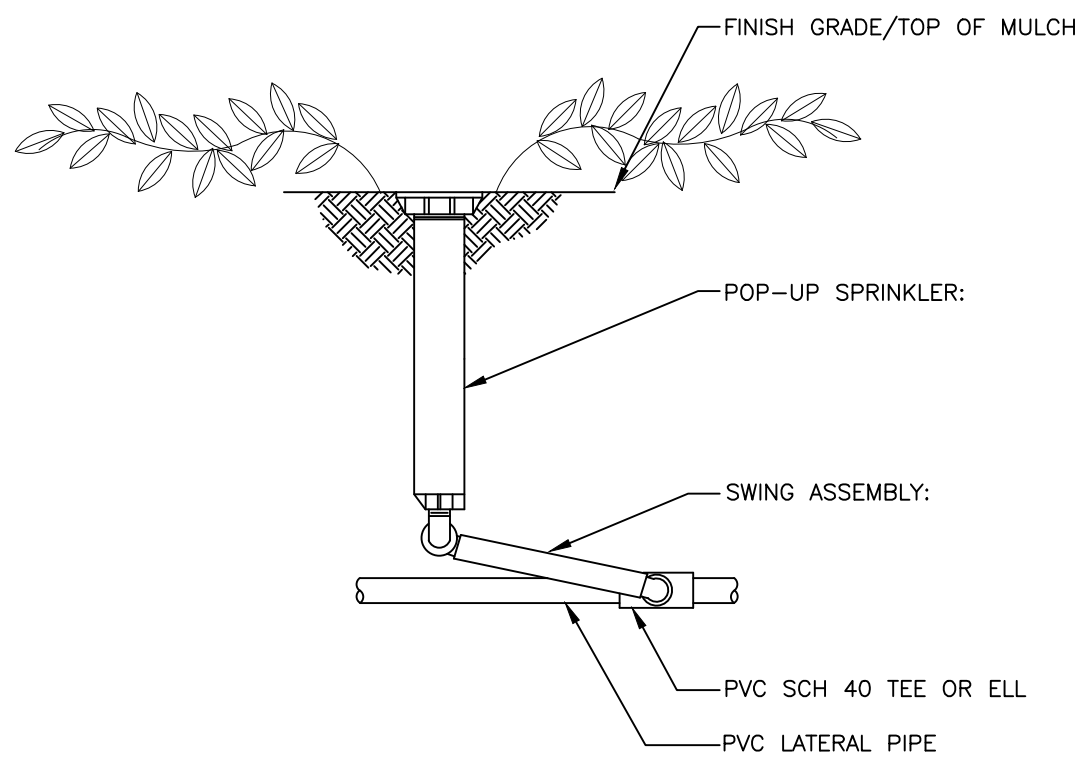


- LEGEND:
- ① IRRIGATION CONTROLLER (12C-800-SS) PER PLAN
 - ② IRRIGATION CONTROL WIRE IN CONDUIT SIZE AND TYPE PER LOCAL CODES
 - ③ ELECTRICAL SUPPLY CONDUIT CONNECT TO POWER SOURCE, J-BOX INSIDE CONTROLLER
 - ④ 3/4\"/>

NOTE:
MOUNT CONTROLLER LCD SCREEN AT EYE LEVEL. CONTROLLER SHALL BE HARD-WIRED TO GROUNDED 110 VAC POWER SOURCE

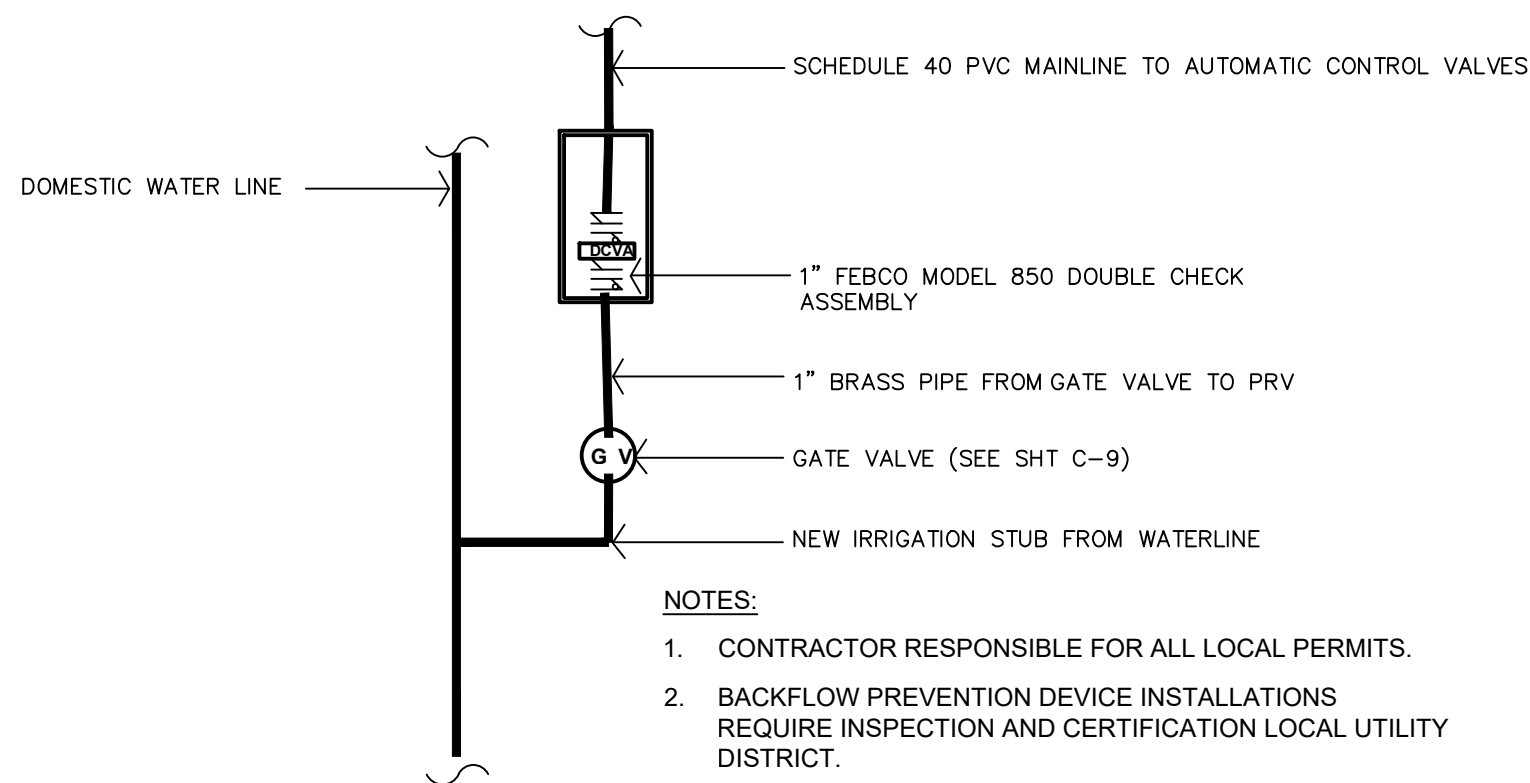


4 QUICK COUPLER
IR-2 NO SCALE

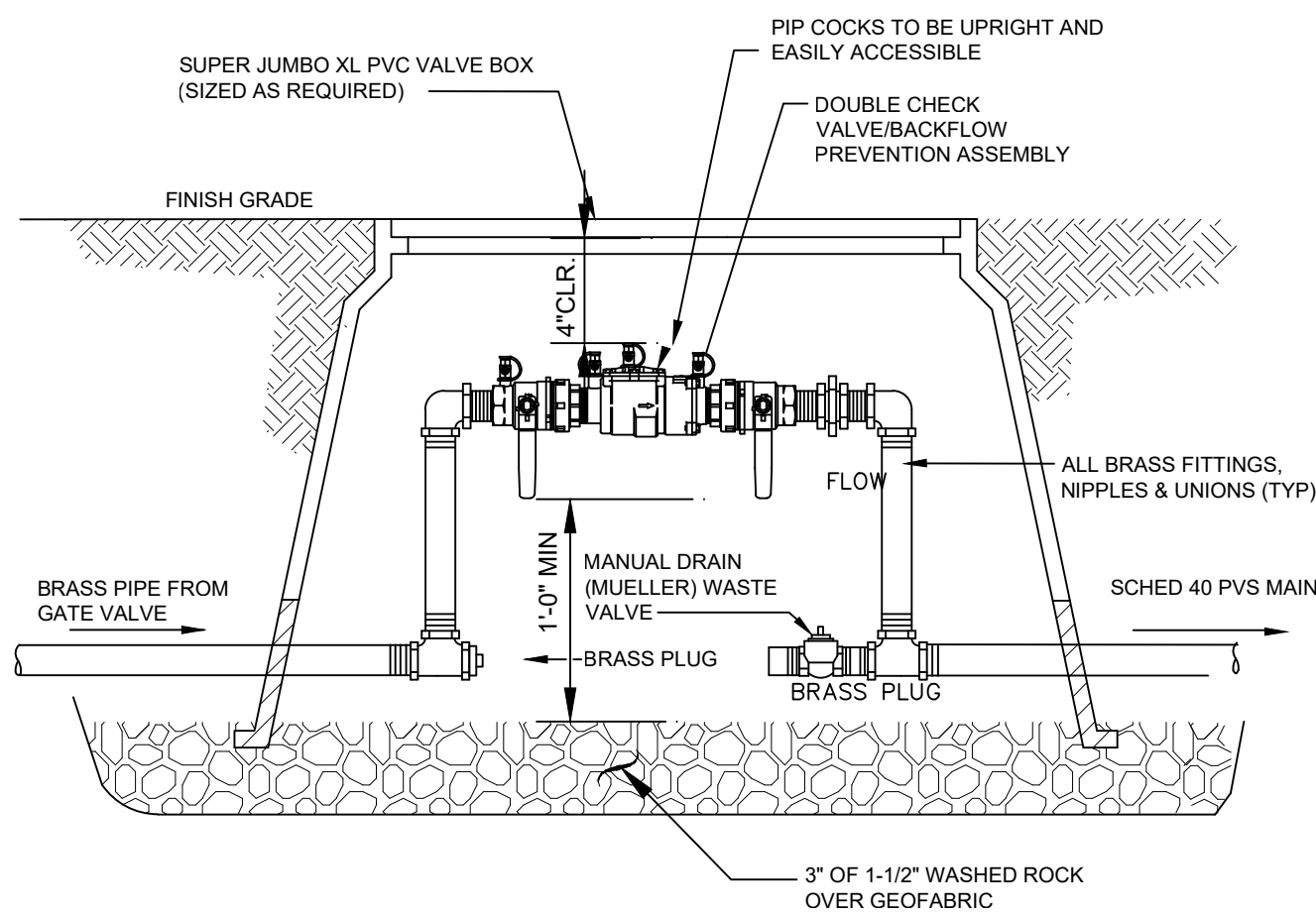


5 TYPICAL POPUP SPRINKLER
IR-2 NO SCALE

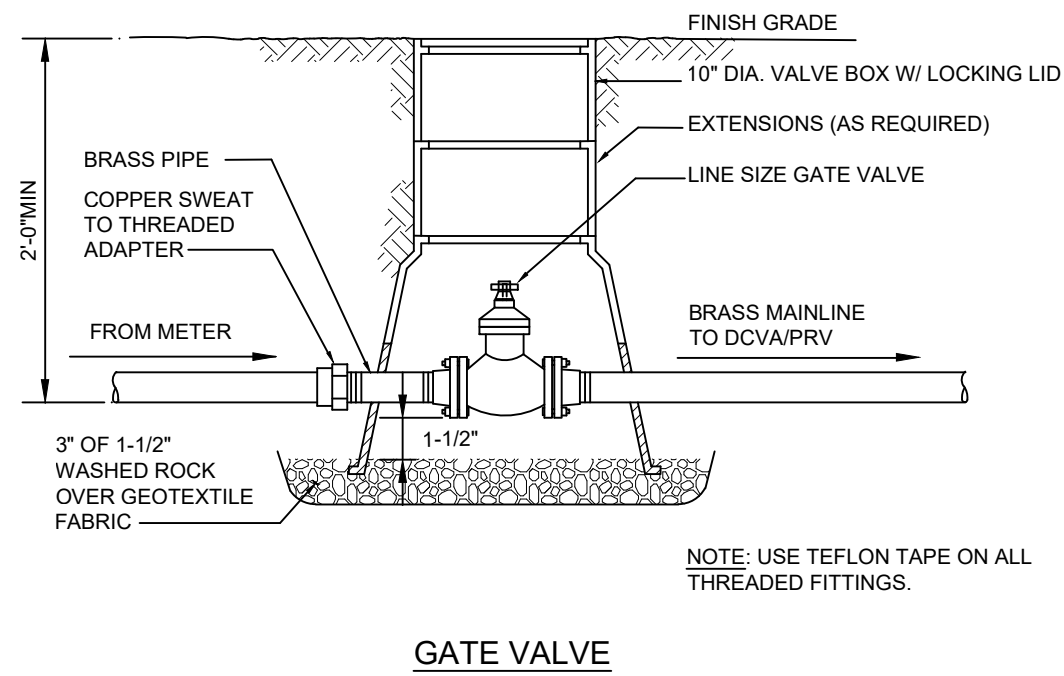
6 CONTROLLER - WALL MOUNT
IR-2 NO SCALE



7 TYPICAL POINT OF CONNECTION
IR-2 NO SCALE

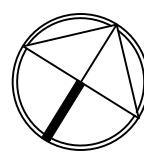


8 DOUBLE CHECK VALVE
IR-2 NO SCALE



9 GATE VALVE
IR-2 NO SCALE

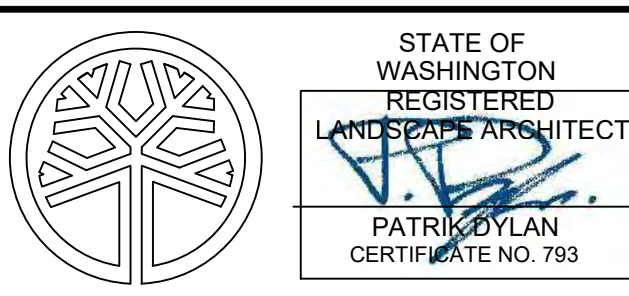
one inch note multiple scales on drawing



NO.	DATE	REVISION	BY	REV.
1	8.16.21	permit set	pd	pd
2	3.16.22	bid set	pd	pd

prepared for:
Skagit County Parks and Recreation
Continental Way
Mount Vernon, WA 98083
contact: Brian Adams

prepared by:
eccosDesign
Landscape Architecture and Planning
Mount Vernon, WA 98273
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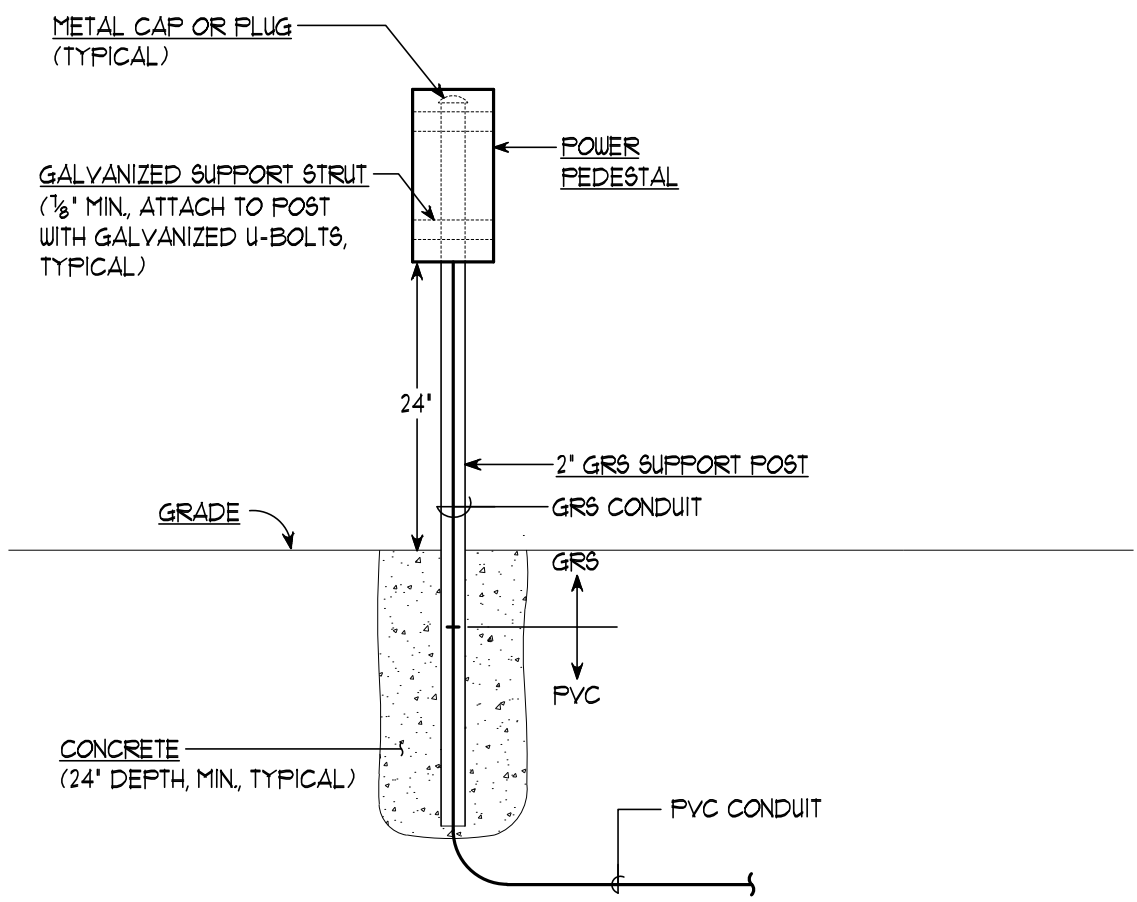


Northern State Recreation Area
Sedro-Woolley, WA

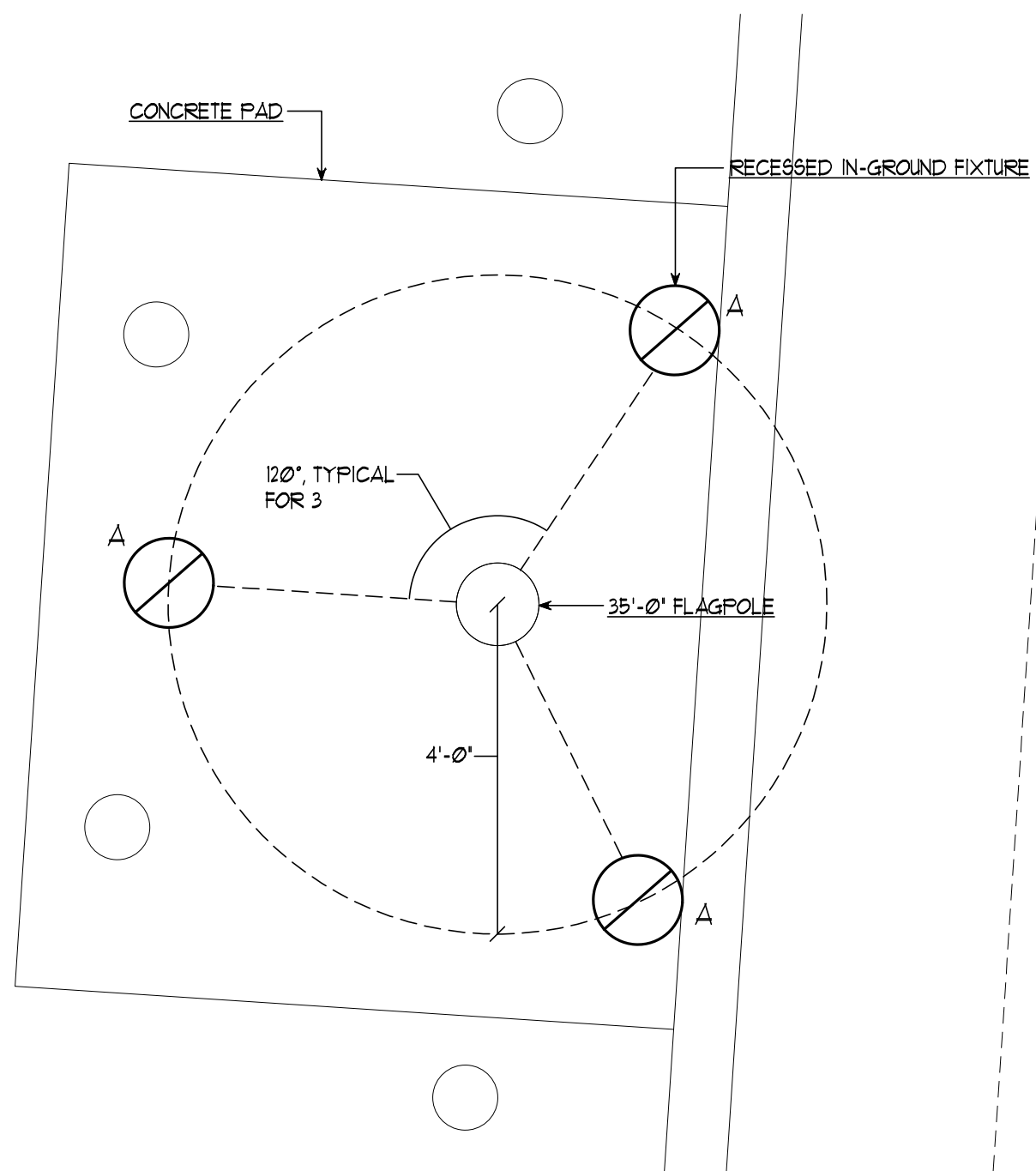
SCALES:
HORIZONTAL :
VERTICAL : N/A
DESIGNED: PD
DRAWN: PD
CHECKED: PD

IRRIGATION DETAILS
BID SET

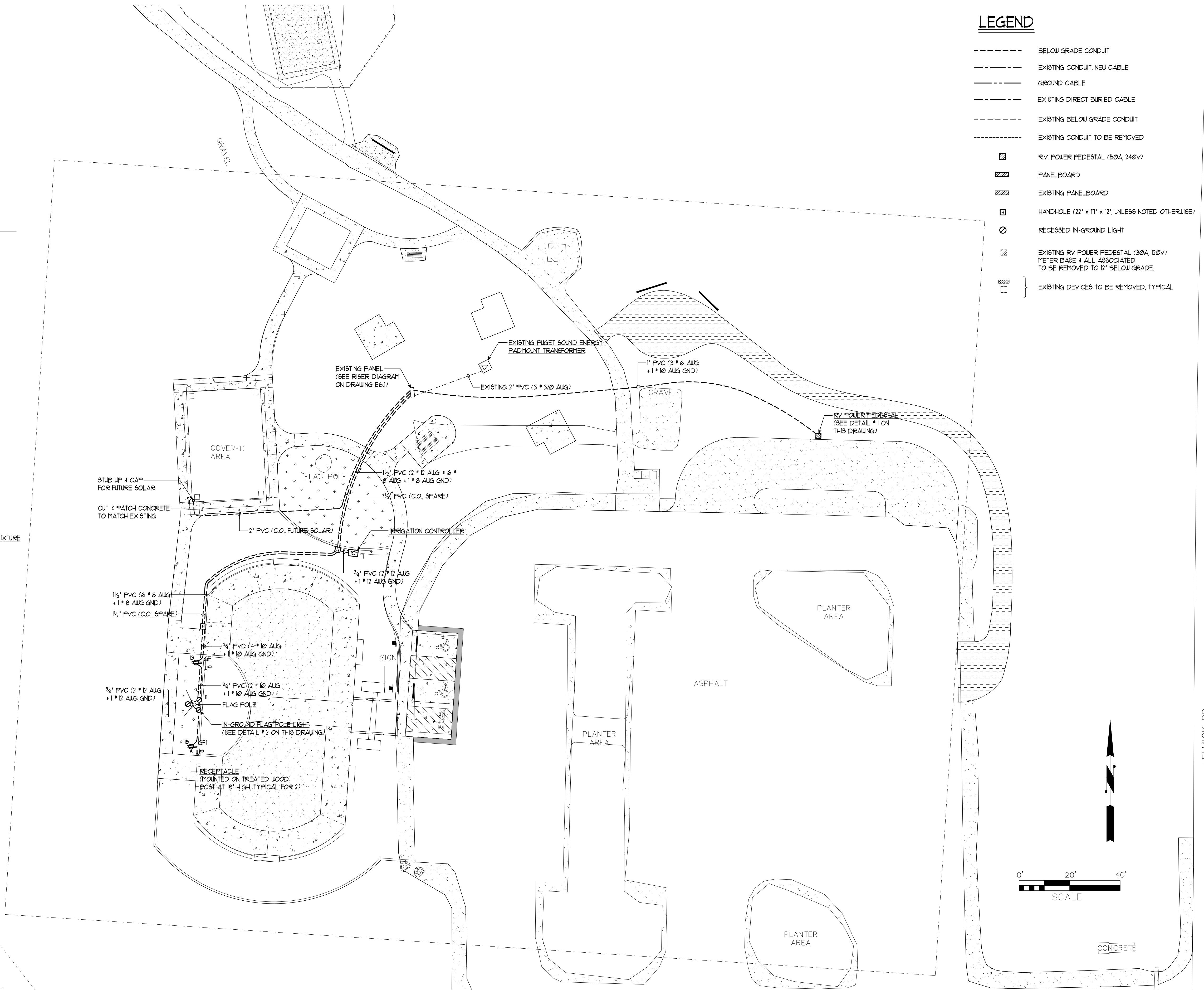
ISSUE DATE: 3.16.22
DRAWING: 1301 SCVP
JOB NO.: 1301vp
SHEET: IR-2



DETAIL #1 - RV POWER PEDESTAL
SCALE: 3/4\"/>



DETAIL #2 - FLAG POLE LIGHTING
SCALE: 1/2\"/>



LEGEND

- BELOW GRADE CONDUIT
- EXISTING CONDUIT, NEW CABLE
- GROUND CABLE
- EXISTING DIRECT BURIED CABLE
- EXISTING BELOW GRADE CONDUIT
- EXISTING CONDUIT TO BE REMOVED
- ▨ RV POWER PEDESTAL (50A, 240V)
- ▨ PANELBOARD
- ▨ EXISTING PANELBOARD
- ▣ HANDHOLE (22\"/>

REVISIONS	BY



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SKAGIT COUNTY PARKS & REC.
NORTHERN STATE REC. AREA
VETERAN MEMORIAL WALL

ELECTRICAL -
SITE PLAN

DATE: MARCH 16, 2022
SCALE: AS NOTED
DRAWN: KL
DESIGNED: STV
JOB NO: 2181
SHEET E-1
OF X SHEETS

REVISIONS	BY



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**SKAGIT COUNTY PARKS & REC.
NORTHERN STATE REC. AREA
VETERAN MEMORIAL WALL**

**ELECTRICAL -
RISER DIAGRAM &
SCHEDULES**

DATE: MARCH 16, 2022

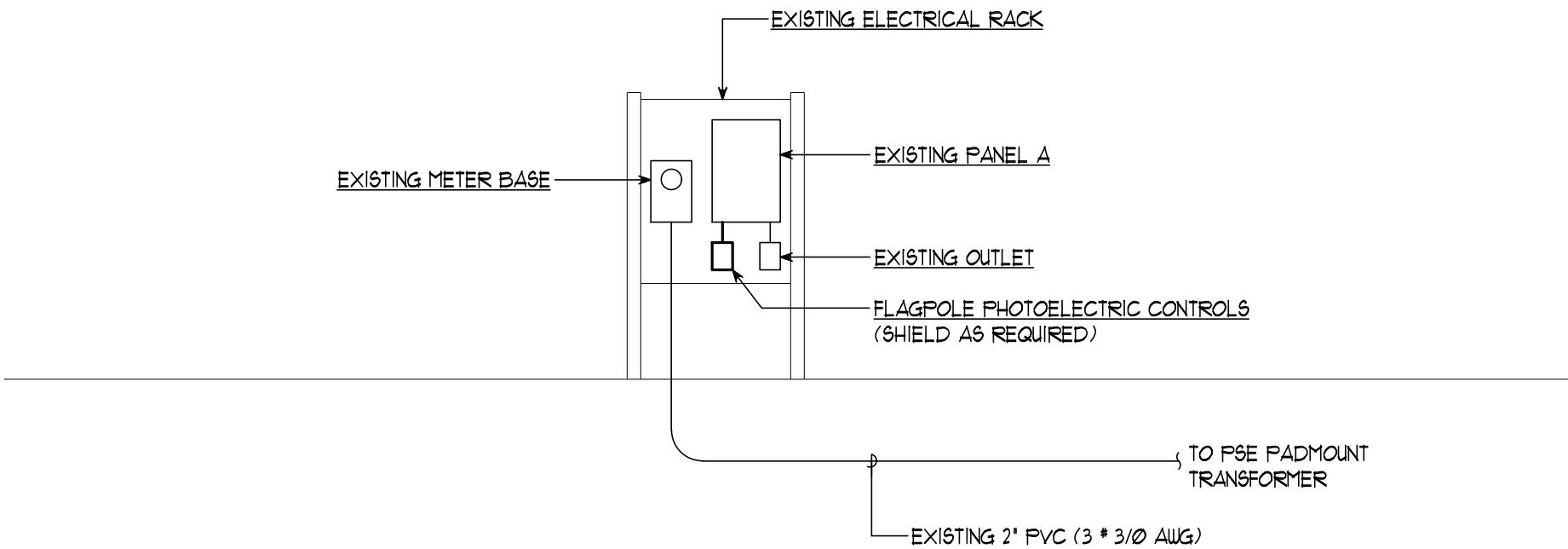
SCALE: NONE

DRAWN: KL

DESIGNED: STV

JOB NO: 2101

SHEET
E-2
OF X SHEETS



ELECTRICAL - POWER SYSTEM RISER DIAGRAM
SCALE: NONE

LIGHTING FIXTURE SCHEDULE					
TYPE	DESCRIPTION	VOLTS	MANUFACTURER & CAT. NO. (OR APPROVED EQUAL)	LAMP(S)	LOADS
					WATTS VA
A	LED FLOODLIGHT, EXTERIOR GROUND FLUSH MTD, 13" DIA x 10" DEEP, SEALED IP68 LED LIGHT ENGINE (MIN) 2911 LUMENS, SUITABLE FOR WET LOCATIONS, INTEGRAL ALUMINUM HEAT SINK, SLIP-RESISTANT LENS, 100,000+ HOURS, STAINLESS STEEL COVER, SEALED STAINLESS STEEL LED HOUSING, MOLDED ROUGH-IN SECTION, NARROW FLOOD OPTICS	120	KIM LTV81SS-NF-36L-3K-UV-SR	LED 3000K (INTEGRAL)	42 46
B					
C					

NOTES:
(1) CONTRACTOR & LIGHTING FIXTURE SUPPLIER SHALL VERIFY DESCRIPTION, MOUNTING REQUIREMENTS, CATALOG NUMBERS, ETC. MATCH, ADVISE ENGINEER OF ANY CONFLICTS OR DISCREPANCIES.

EXISTING METER BASE		EXTERIOR RACK					
VOLTAGE:	120/240V, 1 PH, 3 W	ELECTRICAL LOAD CALCULATION	CONN. LOAD (VA)			DEMAND	DEMAND
ENCLOSURE:	NEMA 3R		EXIST	NEW	TOTAL	FACTOR	LOAD (VA)
MOUNTING:	SURFACE	Lighting	484.0	438.0	922.0	1.25	1152.5
CONTINUOUS RATING:	200 A	Gen. Purpose Outlets (First 10 KVA)	360.0	1080.0	1440.0	1.00	1440.0
		Gen. Purpose Outlets (Remainder)	0.0	0.0	0.0	0.50	0.0
		Special Purpose Outlets	0.0	0.0	0.0	1.00	0.0
		Mechanical Equipment	8496.0	4500.0	12996.0	1.00	12996.0
		Kitchen Equipment & Appliances	0.0	0.0	0.0	1.00	0.0
		Miscellaneous	1740.0	12360.0	14100.0	1.00	14100.0
		25% Largest Motor					0.0
		TOTAL LOAD	11080.0	18378.0	29458.0		29688.5
		TOTAL AMPS	46.2	76.6	122.7		123.7

EXISTING PANEL A (MODIFY)										EXTERIOR RACK					
VOLTAGE: 120/240V, 1 PH, 3 W		FEEDER/BRANCH CIRCUIT DEVICES:				ELECTRICAL LOAD				CONN. LOAD (VA)			DEMAND		
TYPE: PANELBOARD		PLUG-ON CIRCUIT BREAKERS				CALCULATION				EXIST			NEW		
SQUARE D, LOADCENTER		FULL AIC RATING: 10,000 A				Lighting				484.0			438.0		
ENCLOSURE: NEMA 3R		SERIES AIC RATING: NONE				Gen. Purpose Outlets (First 10 KVA)				360.0			1080.0		
MOUNTING: SURFACE						Gen. Purpose Outlets (Remainder)				0.0			0.0		
		SPECIAL PROVISIONS:				Special Purpose Outlets				0.0			0.0		
						Mechanical Equipment				8496.0			4500.0		
		MASTER NAMEPLATE				Kitchen Equipment & Appliances				0.0			0.0		
						Miscellaneous				1740.0			12360.0		
		GROUND BAR				25% Largest Motor							14100.0		
													1.00		
													14100.0		
													0.0		
BUSSING: MANUFACTURER'S STANDARD															
CONTINUOUS RATING: 200 A															
FULL AIC RATING: 10,000 A															
SERIES AIC RATING: NONE															
MAIN: CIRCUIT BREAKER															
CONTINUOUS RATING: 200 A															
FULL AIC RATING: 10,000 A															
SERIES AIC RATING: NONE															
LOCATION: BOTTOM															

NOTES:
(1) PROVIDE NEW CIRCUIT & CIRCUIT BREAKER IN EXISTING SPACE

SPECIFICATIONS:

1.

THE GENERAL, SUPPLEMENTARY AND OTHER CONDITIONS OF THE CONTRACT, MODIFICATIONS TO THE GENERAL CONDITIONS, THE DRAWINGS, AND THE APPLICABLE PROVISIONS OF THE OTHER DIVISIONS ARE HEREBY MADE A PART OF THIS DIVISION AND ALL ITS SECTIONS.
2.

THE REQUIREMENTS OF THIS SECTION APPLY TO ALL ELECTRICAL WORK.
3.

COORDINATE ELECTRICAL WORK WITH RELATED WORK SHOWN AND SPECIFIED ELSEWHERE.
4.

WORK INCLUDED: THE CONTRACTOR SHALL PERFORM ALL THE WORK REQUIRED (INCLUDING THE FURNISHING OF ALL SUPERVISION, LABOR, SERVICES, TOOLS, MATERIALS AND EQUIPMENT AND THE PERFORMANCE OF ALL OPERATIONS AND INCIDENTALS NECESSARY) FOR A COMPLETE, SAFE AND RELIABLE ELECTRICAL INSTALLATION, ADJUSTED, TESTED AND READY FOR OPERATION. THE ELECTRICAL WORK (NEW AND MODIFICATION OF EXISTING) IS GENERALLY DESCRIBED AS FOLLOWS:

A.

POWER DISTRIBUTION SYSTEM INCLUDING RV PEDESTAL, FEEDERS, CIRCUIT BREAKERS, ETC.

B.

GROUNDING

C.

WIRING DEVICES AND SPECIAL PURPOSE RECEPTACLES.

D.

LIGHTING FIXTURES AND CONTROLS

E.

BRANCH CIRCUIT WIRING SYSTEM FOR LIGHTING, OUTLETS, EQUIPMENT, ETC.

F.

SUPPORTS.

G.

PULL STRINGS AND ROPES

H.

TRENCHING AND BACKFILLING FOR UNDERGROUND ELECTRICAL WORK.

I.

MOISTURE, FIRE AND DUST STOPPING AND SEALING

J.

TEMPORARY CONSTRUCTION POWER AND LIGHTING.

K.

TESTING AND COMPLETING

L.

OBTAINING AND PAYING FOR ALL REQUIRED LICENSES, PERMITS, INSPECTIONS AND FEES.
5.

EXISTING CONDITIONS: BEFORE SUBMITTING BID, EXAMINE EXISTING SITE AND EQUIPMENT CONDITIONS TO DETERMINE EFFECT ON EXECUTION OF THE ELECTRICAL WORK AND INCLUDE COSTS IN BID.
6.

THE CONTRACTOR SHALL COORDINATE THE WORK AND COOPERATE WITH THE OWNER, OTHER TRADES, AND SYSTEM CONTRACTORS TO HAVE THE WORK COMPLETED TO THE BEST ADVANTAGE, INSURE THERE ARE NO INTERFERENCES, PROVIDE REASONABLE OPPORTUNITY FOR THE OTHER TRADES AND CONTRACTORS TO COMPLETE THEIR WORK AND TO NOT DELAY THE WORK.
7.

WORK UNDER THIS PROJECT WILL BE UNDERTAKEN WITH THE FACILITY IN FULL OPERATION.
8.

CONTRACTOR SHALL COORDINATE WORK TO AVOID DISTURBANCE TO FACILITY OPERATIONS AND PERSONNEL, AND TO ALLOW ACCESS FOR BOTH PERSON TO AND WITHIN ALL PORTIONS OF THE FACILITY AND VEHICLES TO THE FACILITY. ACCESS TO PICNIC SHELTER, BATHROOMS, ETC. WILL NOT BE ALLOWED WHEN THEY ARE OCCUPIED ANY AND ALL COSTS INCURRED FOR NON-STANDARD HOURS, DOUBLE SHIFTS, OVERTIME, ETC. OR ANY OTHER COSTS ASSOCIATED WITH COMPLETING THE PROJECT WITHIN THE COMPLETION TIMES REQUIRED SHALL BE INCLUDED WITHOUT INCREASE IN CONTRACT SUM.
9.

THE COMPLETED INSTALLATION SHALL BE DONE IN A NEAT & WORKMANLIKE MANNER, SHALL BE SUITABLE FOR THE LOCATION, AND SHALL BE IN ACCORDANCE ALL LAWS, RULES & REGULATIONS IN EFFECT AT THE SITE (INCLUDING THE LATEST EDITIONS OF THE NATIONAL ELECTRICAL CODE (NEC), THE WASHINGTON STATE ELECTRICAL SAFETY STANDARDS, ADMINISTRATION AND INSTALLATION CODE (WAC 296-46B)
10.

ALL SYSTEMS, EQUIPMENT, DEVICES, RACEWAYS, CABLES, ETC. INDICATED ARE NEW UNLESS NOTED OTHERWISE.
11.

ALL ELECTRICAL MATERIALS SHALL BE "UL" (UNDERWRITER'S LABORATORIES, INC.) LISTED, LABELED AND APPROVED FOR THE SERVICE INTENDED WHERE UL STANDARDS HAVE BEEN ESTABLISHED.
12.

ALL OPERATIONS SHALL BE CONDUCTED IN A MANNER TO AVOID THE RISK OF HARM TO PERSONS OR DAMAGE TO PROPERTY. DAMAGE SHALL IMMEDIATELY BE REPAIRED. CONSTRUCTION EQUIPMENT & TOOLS SHALL BE IN GOOD OPERATING CONDITION, AND BE DESIGNED FOR THE WORK REQUIRED. VERIFY WITH STRUCTURAL ENGINEER ACCEPTABLE LOCATIONS FOR CORE DRILLING FLOORS, WALLS, ETC. FOR CONDUIT ROUTING.
13.

POWER INTERRUPTIONS (WHETHER TO THE ENTIRE SYSTEM OR TO INDIVIDUAL BUILDINGS, PANELS, EQUIPMENT, DEVICES, ETC.) SHALL BE KEPT TO AN ABSOLUTE MINIMUM, AND SHALL NOT BE DONE WITHOUT PRIOR APPROVAL, 2 WEEKS ADVANCED SCHEDULING & COORDINATION MEETING WITH THE OWNER. SECONDARY VERIFICATION THAT POWER INTERRUPTION WILL OCCUR IS ALSO REQUIRED 48 HOURS PRIOR TO THE DATE OF OCCURRENCE.
14.

CABLE, BOXES, ETC. SHALL BE STORED OFF THE GROUND, PROTECTED FROM THE WEATHER IN RACKS OR BINS, OR ON SHELVES. EQUIPMENT, WIRING DEVICES, CIRCUIT BREAKERS, ETC. SHALL BE STORED INDOORS IN A DRY, WARM AREA; FREE OF DUST & ONE IN WHICH CONDENSATION WILL NOT OCCUR.
15.

EQUIPMENT, BOXES, ETC. SHALL BE INSTALLED PLUMB & TRUE, AND BE FIRMLY SUPPORTED EITHER DIRECTLY OR INDIRECTLY BY A SOUND & SAFE STRUCTURAL MEMBER.
16.

ROUTING OF EXISTING CONDUITS INDICATED IS APPROXIMATE ONLY.
17.

VERIFY ALL EQUIPMENT, DEVICE, ETC. LOCATIONS WITH THE OWNER PRIOR TO ROUGH-IN.
18.

DEFINITIONS

A.

THE TERM "CONTRACTOR" USED THROUGHOUT THESE SPECIFICATIONS AND ON THE ELECTRICAL DRAWINGS SHALL BE UNDERSTOOD TO MEAN THE ELECTRICAL CONTRACTOR. ALL OTHER WORK SHALL BE CALLED OUT BY NAME.

B.

"FURNISH" MEANS TO SUPPLY AND DELIVER TO THE PROJECT, READY FOR INSTALLATION AND IN OPERABLE CONDITION.

C.

"INSTALL" MEANS TO INCORPORATE IN THE WORK FINAL POSITION, COMPLETE, ANCHORED, CONNECTED, AND IN OPERABLE CONDITION.

D.

"PROVIDE" MEANS FURNISH AND INSTALL

E.

F.O.I.C. - FURNISHED BY OTHERS, INSTALLED BY CONTRACTOR.
19.

SUBMITTALS

A.

PROVIDE SUBMITTALS TO THE ENGINEER, TOGETHER, AT ONE TIME, SEPARATED AND INDEXED FOR EACH SPECIFICATION SECTION. INDIVIDUAL OR INCOMPLETE SUBMITTALS ARE NOT ACCEPTABLE.

B.

THE ENGINEER WILL REVIEW EACH SUBMITTAL, INDICATE ACTION TO BE TAKEN, AND RETURN. THE CONTRACTOR SHALL ALLOW FOR 1 1/2 WEEKS FOR ENGINEER REVIEW MINIMUM. COMPLIANCE WITH SPECIFIED CHARACTERISTICS IS THE CONTRACTORS RESPONSIBILITY. APPROVAL OF SUBMITTALS DOES NOT RELEASE THE CONTRACTOR FROM A PROPER INSTALLATION, COMPLIANCE WITH THE DRAWINGS, SPECIFICATIONS, CODES, STANDARDS, SITE CONSTRAINTS, ETC. OR COORDINATION OF THE WORK.

C.

PROVIDE SUBMITTALS FOR THE FOLLOWING:

1.

RV PEDESTAL

2.

LIGHTING FIXTURES & LIGHTING CONTROLS
20.

WIRING METHODS

A.

SERVICE - PVC CONDUIT BELOW GRADE (WITH GRS CONDUIT RISERS AND ELBOWS) AND GRS CONDUIT ABOVE GRADE.

B.

FEEDERS - PVC CONDUIT BELOW GRADE (WITH GRS CONDUIT RISERS AND ELBOWS) AND EMT ABOVE GRADE.

C.

BRANCH CIRCUITS - PVC CONDUIT BELOW GRADE (WITH GRS CONDUIT RISERS AND ELBOWS) AND EMT ABOVE GRADE.
21.

EARTHWORK

A.

THE CONTRACTOR SHALL DO ALL TRENCHING, BACKFILLING, CUTTING, PATCHING, ETC. FOR THE BELOW GRADE ELECTRICAL WORK.

B.

THE CONTRACTOR IS RESPONSIBLE FOR CONTACTING THE OWNER AND ALL UTILITY COMPANIES AND FOR FIELD LOCATION OF ALL UTILITIES PIPES, CONDUITS, ETC. BEFORE DOING ANY TRENCHING. THE ONE-CALL NUMBER FOR UNDERGROUND UTILITIES, SERVICES IS 811. THE CONTRACTOR SHALL PROMPTLY NOTIFY THE ENGINEER OF ANY CONFLICTS BETWEEN THE CONTRACT DOCUMENTS AND FIELD LOCATION OF EXISTING UTILITIES. THE CONTRACTOR IS RESPONSIBLE FOR MAINTAINING THE INTEGRITY OF ALL EXISTING UTILITIES DURING CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIRING &/OR REPLACING (AS REQUIRED) ALL THAT HE DAMAGES.

C.

SHORE AND BRACE EXCAVATIONS WHERE NECESSARY TO PREVENT CAVE-INS AND IN ACCORDANCE WITH ALL SAFETY LAWS AND CODES.

D.

EXCAVATE TO DEPTHS NOTED. SHORE AND BRACE EXCAVATIONS WHERE NECESSARY TO PREVENT CAVE-INS AND IN ACCORDANCE WITH ALL SAFETY LAWS AND CODES.

E.

PROVIDE A SPOTTER AT ALL TIMES WHEN EXCAVATION OCCURS BY USE OF BACKHOE, EXCAVATOR OR OTHER MECHANICAL EQUIPMENT.

F.

DIRT SHALL NOT BE PERMITTED TO ACCUMULATE ON ROADS, ADJACENT PARCELS, RIGHT OF WAYS NOR TO BE WASHED INTO DRAINAGE DITCHES. ANY DAMAGE TO ADJACENT AREAS SHALL BE REPAIRED DIRECTLY TO THE BEST CONDITION OR BETTER. CONDITION TO THE APPROVAL OF THE OWNER AND ENGINEER. PROVIDE OFF SITE LOCATION FOR EXCAVATED MATERIALS AS REQUIRED.

G.

DURING EXCAVATIONS AND BACKFILLING, EXTREME CARE SHALL BE TAKEN TO KEEP ROCKS AND OTHER ROUGH MATERIAL AWAY FROM CONDUITS AND CABLES. PACK A MINIMUM OF 6 INCHES OF SOFT FILL MATERIAL (FREE FROM STONES, ROCKS AND OTHER ROUGH MATERIAL THAT MIGHT BE FORCED AGAINST THE CONDUITS AND CABLES DURING BACKFILLING, OR WHEN SETTLING OR FROST-HEAVING DISTURBS THE SURROUNDING EARTH) AROUND CONDUITS AND CABLES.

H.

BACKFILL SHALL BE GOOD COMPACTABLE MATERIAL WITHOUT LARGE ROCKS, CHUNKS OR STICKS. BACKFILL IN ALL EXCAVATIONS SHALL BE PROGRESSIVELY COMPACTED IN MAXIMUM 12 INCH LIFTS TO 95% OF MAXIMUM DENSITY, AND SHALL BE WITHOUT VOIDS. WHEN EXCAVATED MATERIAL IS NOT SUITABLE FOR BACKFILL, DISPOSE OF OFF SITE AND PROVIDE SUITABLE BACKFILL MATERIAL.

I.

THE CLEARANCE BETWEEN THE UNDERGROUND CONDUIT SYSTEMS AND OTHER UNDERGROUND ITEMS, SUCH AS WATER AND SEWER LINES SHALL BE AS LARGE AS NECESSARY TO PERMIT MAINTENANCE OF ANY OF THE SYSTEMS WITHOUT DAMAGE TO THE OTHER ITEMS.

J.

WARNING TAPE: YELLOW 3" WIDE POLYETHYLENE METALIZED WORKING TAPE SHALL BE DIRECTLY 12 INCHES ABOVE TOPMOST CONDUITS. TAPES SHALL EXTEND INTO VAULTS AND BE STUBBED UP WITH AND SECURED TO CONDUITS AS REQUIRED FOR ACCESS WHEN TESTING.

K.

CHANGES IN LOCATION UP TO 10' (E.G. EQUIPMENT AND DEVICES, TRENCH AND CONDUIT ROUTING, ETC.) MADE BEFORE INSTALLATION AND DEVIATIONS TO AVOID INTERFERENCES SHALL BE MADE WITHOUT INCREASE IN CONTRACT SUM.
22.

RACEWAYS

A.

RACEWAYS AND CABLES THROUGHOUT THE FACILITY SHALL BE RUN CONCEALED IN WHERE POSSIBLE. EXCEPT, WHEN IT IS NOT POSSIBLE TO ROUTE RACEWAYS & CABLES CONCEALED, RACEWAYS MAY BE RUN EXPOSED WHEN APPROVED BY OWNER. EXPOSED RACEWAYS SHALL BE RUN AS NEATLY & UNOBTUSIVELY AS POSSIBLE, SUPPORTED AS REQUIRED, PARALLEL OR AT RIGHT ANGLES TO CEILINGS, WALLS & STRUCTURAL MEMBERS.

B.

RACEWAYS SHALL BE AS FOLLOWS, UNLESS NOTED OTHERWISE:

1.

INTERIOR CONCEALED SPACES - ELECTRICAL METALLIC TUBING (EMT) WITH FLEXIBLE METAL CONDUIT (FLEX) FOR FINAL CONNECTIONS

4.

EXTERIOR ABOVE GRADE - GALVANIZED RIGID STEEL CONDUIT (GRS).

5.

EXTERIOR BELOW GRADE - POLYVINYL CHLORIDE CONDUIT (PVC), EXCEPT CONDUIT BENDS & RISERS SHALL BE GALVANIZED RIGID STEEL (GRS).

C.

RACEWAYS SHALL BE SIZED SO THAT THE CABLE FILL DOES NOT EXCEED 40%, EXCEPT, MINIMUM CONDUIT (& EQUIVALENT SURFACE METAL RACEWAY) SIZES SHALL BE AS FOLLOWS, UNLESS NOTED OTHERWISE:

1.

3/4" - BRANCH CIRCUITS, EXCEPT AS NOTED BELOW

2.

1" - BELOW GRADE CIRCUITS.

D.

BELOW GRADE CONDUIT SHALL BE SCHEDULE 40 PVC (EXCEPT RISERS & ELBOWS SHALL BE GRS), DIRECT BURIED MINIMUM OF 24" BELOW GRADE FOR CONDUITS CONTAINING 600V CABLES WITH MINIMUM 2" SPACING BETWEEN CONDUITS. CONDUIT FITTINGS, COUPLINGS, ETC. SHALL BE OF THE SAME TYPE AND MANUFACTURER AS THE CONDUIT. JOINTS IN UNDERGROUND CONDUIT SYSTEM SHALL BE SOLVENT WELDED TO PREVENT THE ENTRANCE OF MOISTURE.

E.

RIGID STEEL CONDUIT SHALL BE HOT-DIPPED GALVANIZED WITH THREADED COUPLINGS AND CONNECTORS.

F.

ELECTRICAL METALLIC TUBING SHALL BE ELECTRO-GALVANIZED STEEL.

G.

CONDUIT SHALL BE RUN CONCEALED UNLESS NOTED OR INDICATED OTHERWISE EXCEPT, FINAL RISERS AND DROPS TO EQUIPMENT, SURFACE MOUNTED PANELS, ETC. SHALL BE EXPOSED, AND CONDUIT WITHIN THE MECHANICAL & ELECTRICAL ROOMS, STORAGE AREAS, ETC. MAY BE RUN EXPOSED.

H.

NO CONDUIT SHALL BEND MORE THAN 360 DEGREES BEFORE THE END OF ITS RUN. BENDS IN CONDUITS SHALL BE MADE WITHOUT FLATFLEETING, KINKING OR REDUCING THE CROSS-SECTIONAL AREA OF THE CONDUIT. CONDUIT CUTS SHALL BE MADE SQUARE WITH A PROPER CUTTING TOOL. THE INSIDE AND OUTSIDE OF ALL CONDUIT ENDS SHALL BE REAMED TO ELIMINATE BURRS AND ROUGH EDGES, THEN WIPED CLEAN.

I.

SUITABLE BUSHINGS SHALL BE USED ON ALL CONDUIT TERMINATIONS.

J.

CONDUIT SYSTEMS SHALL BE COMPLETE, SNAKED AND CLEANED BEFORE PULLING ANY CABLE.
23.

RACEWAY FITTINGS

A.

CONNECTORS, COUPLINGS, ETC. FOR EMT SHALL BE STEEL SET-SCREW TYPE, EXCEPT, STEEL RAINTIGHT COMPRESSION TYPE IN POTENTIALLY WET OR DAMP LOCATIONS.
24.

BOXES

A.

BOXES SHALL ACCOMMODATE ANY DEVICE TO BE INSTALLED AND SHALL BE SIZED AS REQUIRED BY THE APPLICABLE CODES FOR NUMBER AND SIZE OF CONDUITS AND CABLES ENTERING AND LEAVING, EXCEPT MINIMUM AS NOTED BELOW.

B.

EXTERIOR OUTLET BOXES SHALL HAVE WEATHERPROOF WHILE-IN-USE COVERS, GASKETS, AND ALL NECESSARY MOUNTING ACCESSORIES.

C.

EXTERIOR AND/OR BOXES INSTALLED IN WET OR DAMP LOCATIONS SHALL BE THREADED RIGID BODY TYPE, CAST ALUMINUM OR GALVANIZED IRON.

D.

UNLESS NOTED OTHERWISE, LARGER SIZE PULL AND JUNCTION BOXES SHALL BE FABRICATED FROM CODE GAUGE GALVANIZED STEEL.

E.

SWITCH, OUTLET, DEVICE, ETC. BOXES SHALL BE SINGLE OR GANGED TO ACCOMMODATE THE REQUIRED NUMBER OF DEVICES, EXCEPT, FLUSH MOUNTED BOXES SHALL BE MINIMUM 4 INCHES SQUARE FOR CONDUITS 1 INCH OR LESS AND 4-11/16 INCHES SQUARE FOR LARGER CONDUITS. BOXES CONTAINING A SINGLE DEVICE SHALL BE MINIMUM 1-1/2 INCHES DEEP. BOXES CONTAINING MULTIPLE DEVICES SHALL BE MINIMUM 2-1/8 INCHES DEEP. FLUSH MOUNTED BOXES SHALL BE EQUIPPED WITH PLASTER RINGS AND SUITABLE WALLPLATES. SURFACE MOUNTED BOXES SHALL HAVE RAISED SURFACE TYPE COVERS.
25.

HANDHOLES

A.

HAND HOLES SHALL BE PRECAST CONCRETE, 17" WIDE x 22" LONG x 12" DEEP, OPEN BOTTOM, IN ACCORDANCE WITH THE WASHINGTON STATE DEPARTMENT OF TRANSPORTATION TYPE J-11A, TYPE 1. COVERS SHALL BE DIAMOND PLATED GALVANIZED STEEL WITH THE LETTERING "STREET LIGHTING" PERMANENTLY INSTALLED.
26.

WIRING

A.

ALL WIRING SHALL BE ENCLOSED WITHIN THE RACEWAY SYSTEM.

B.

WIRE AND CABLE SIZES INDICATED AND/OR SPECIFIED ARE MINIMUMS ONLY AND SHALL BE INCREASED AS REQUIRED DUE TO NEC, SYSTEM, LOAD, VOLTAGE DROP, ETC. REQUIREMENTS.

C.

FEEDER, BRANCH CIRCUIT & EQUIPMENT GROUND CABLES SHALL BE 1/2 COPPER, STRANDED, #12 AWG UNLESS NOTED OTHERWISE, WITH 600V TYPE XHHW INSULATION.

D.

BRANCH CIRCUIT & EQUIPMENT GROUND CABLES WITHIN A CONDUIT SYSTEM SHALL BE 1/2 COPPER STRANDED, #12 AWG (UNLESS NOTED OTHERWISE), WITH 600V TYPE XHHW INSULATION.

E.

BEFORE SPLICES AND CONNECTIONS ARE MADE, CONTACT SURFACES SHALL BE THOROUGHLY CLEANED. CONNECTIONS SHALL BE BOTH MECHANICALLY & ELECTRICALLY SECURE. TAKE CARE NOT TO NICK CONDUCTORS DURING INSULATION REMOVAL.

F.

WIRE AND CABLE SHALL NOT BE EXPOSED TO WEATHER OR MECHANICAL DAMAGE LONGER THAN NECESSARY. CUT ENDS OF CABLE SHALL IMMEDIATELY BE SEALED.

G.

CABLE SHALL BE UNROLLED FROM REELS, OR REMOVED FROM CARTONS, AND INSTALLED IN A MANNER WHICH WILL PREVENT KINKING, CRUSHING OR EXCESSIVE TENSION ON CONDUCTORS AND INSULATION. CABLE PULLING LUBRICANTS OF A TYPE HAVING NO DAMAGING EFFECT ON THE INSULATION, SHALL BE USED TO MINIMIZE PULLING STRESSES ON THE CABLE.

H.

CABLE SHALL BE INSTALLED OR DRAWN INTO THE CONDUIT SYSTEM ONLY AFTER ALL WORK OF ANY NATURE THAT COULD CAUSE INJURY TO THE CABLE IS COMPLETED. THE CONDUIT SYSTEM SHALL BE COMPLETE, SNAKED AND CLEANED BEFORE PULLING ANY CABLE.
27.

GROUNDING:

A.

ALL ELECTRICAL EQUIPMENT, BOXES, DEVICES, SHALL BE PROVIDED WITH A GROUND FAULT RETURN PATH BY MEANS OF THE INTEGRITY OF THE METALLIC CONDUIT SYSTEM (WHERE APPLICABLE) & AN INSULATED GROUNDING CONDUCTOR INSTALLED WITH THE CIRCUIT CONDUCTORS. CONDUIT SHALL BE CLOSELY & TIGHTLY FITTED IN COUPLINGS, CONNECTORS, ETC. AND BE PROPERLY BONDED TO PROVIDE AN ELECTRICALLY CONTINUOUS LOW RESISTANT GROUND PATH. CONTINUITY TESTS SHALL BE MADE TO VERIFY THE CONTINUITY OF THE GROUNDING SYSTEM & ALL GROUND FAULT RETURN PATHS.

B.

EQUIPMENT GROUND CABLES SHALL BE 1/2 COPPER, WITH 600V TYPE XHHW OR THHN/THWN INSULATION.

C.

GROUND CLAMPS, NUTS, WASHERS, ETC. SHALL BE CORROSION RESISTANT HIGH COPPER ALLOY OR SILICON BRONZE.
28.

CIRCUIT BREAKERS (FOR USE IN EXISTING SWITCHBOARDS AND PANELBOARDS)

A.

CIRCUIT BREAKERS SHALL BE MOLDED-CASE, THERMAL MAGNETIC, QUICK MAKE-QUICK BREAK TYPE WITH TRIP INDICATING HANDLES. BRANCH CIRCUIT BREAKERS FOR MOTOR LOADS SHALL BE HACR TYPE, CIRCUIT BREAKERS SHALL BE PROVIDED WITH HANDLE LOOKING DEVICES. MULTI-POLE BREAKERS SHALL BE SINGLE-HANDLE, COMMON TRIP. TANDEM BREAKERS (PIGGYBACK) SHALL NOT BE USED.

B.

CIRCUIT BREAKERS SHALL BE SERIES SHORT CIRCUIT RATED WITH UPSTREAM BREAKER OR FULLY RATED TO MATCH EXISTING SWITCHBOARD OR PANELBOARD.

C.

THE SWITCHBOARD OR PANELBOARD CIRCUIT BREAKER SHALL BE IDENTIFIED WITH LAMINATED PLASTIC NAMEPLATES, BLACK FACE, WHITE CORE, ENGRAVED WITH MINIMUM 1/4 INCH LETTERS, DESCRIBING ITS IDENTIFICATION AND FUNCTION.
29.

RV POWER PEDESTALS

A.

POWER PEDESTALS SHALL BE POST MOUNTED TYPE WITHOUT METER BASE, 120/240 VOLT, MINIMUM 60 AMP, FACTORY ASSEMBLED AND WIRED, INDIVIDUAL FEED, BOTTOM ENTRY. ENCLOSURES SHALL BE NEMA 3R, DEAD FRONT, PADLOCKABLE DOOR WITH ROLLED EDGES FOR CORB PROTECTION. GALVANIZED STEEL WITH ELECTROSTATIC POWDER COAT FINISH.

B.

CONTRACTOR SHALL PROVIDE GRS SUPPORT POST FOR PEDESTAL MOUNTING AS NOTED.
- C.

EACH PEDESTAL SHALL BE EQUIPPED WITH RECEPTACLES AND CIRCUIT BREAKERS AS FOLLOWS:

1.

1 AT 120/240 VOLT, 50 AMP, 3 POLE, 4 WIRE, GROUNDING TYPE STRAIGHT BLADE RECEPTACLE, 14-50R (PROTECTED BY A 50 AMP, 2 POLE CIRCUIT BREAKER);

2.

1 AT 120 VOLT, 20 AMP, 1 POLE, 3 WIRE, GFCI, GROUNDING TYPE STRAIGHT BLADE DUPLEX RECEPTACLE S-20R20GFCI (PROTECTED BY A 20 AMP, 1 POLE, CIRCUIT BREAKER)

3.

CIRCUIT BREAKERS SHALL BE MOLDED-CASE, THERMAL MAGNETIC, QUICK MAKE-QUICK BREAK TYPE WITH TRIP INDICATING HANDLES, RATED 10K AIC MINIMUM. MULTI-POLE BREAKERS SHALL BE SINGLE-HANDLE, COMMON TRIP. TANDEM (PIGGYBACK) BREAKERS SHALL NOT BE USED.

4.

FEEDER LUGS SHALL BE SUITABLE FOR COPPER OR ALUMINUM WIRE, #8 AWG THROUGH #2 AWG. GROUND AND NEUTRAL BARS SHALL BE PROVIDED WITH LUGS AS REQUIRED INCLUDING SPACES FOR FUTURE CIRCUITS), SUITABLE FOR COPPER OR ALUMINUM WIRE.

D.

POWER PEDESTALS SHALL BE MANUFACTURED BY MIDWEST ELECTRICAL PRODUCTS, INC. TYPE U0550033, OR APPROVED EQUAL.
30.

WIRING DEVICES

A.

WIRING DEVICES SHALL BE SPECIFICATION GRADE, WHITE COLOR.

B.

GROUND FAULT INTERRUPTER (GFI) TYPE RECEPTACLES SHALL BE DUPLEX, CLASS A, 15 AMP, 125 VOLT.

C.

WEATHER-PROOF DEVICES (RECEPTACLES, SWITCHES, ETC.) SHALL BE EQUIPPED WITH HIGH IMPACT METAL COVERS. COVERS SHALL MAINTAIN A WEATHERPROOF RATING WHETHER OR NOT AN ATTACHMENT PLUG IS INSERTED. INTERMATIC WP1010MC OR EQUAL.

D.

ALL OUTLETS SHALL BE LABELED WITH THE PANEL AND CIRCUIT NUMBER(S) FROM WHICH THE DEVICE IS FED. LABELS SHALL BE HEAVY DUTY ADHESIVE TYPE, CLEAR WITH BLACK LETTERS ON LIGHT COLORED DEVICES AND CLEAR WITH WHITE LETTERS ON DARK COLORED DEVICES. LETTERING SHALL BE 1/4" MINIMUM. SELF-ADHESIVE CIRCUIT NUMBERS, MASKING TAPE, PLASTIC PUNCH TYPE "DYMO" LABELS, ETC. ARE NOT ACCEPTABLE.
31.

LIGHTING

A.

THE LIGHTING SYSTEMS AND ALL CONTROLS SHALL BE IN ACCORDANCE WITH THE WASHINGTON STATE NON-RESIDENTIAL ENERGY CODE (NREC), ASHRAE 90.1 AS WELL AS APPLICABLE LEED CERTIFICATION REQUIREMENTS.

B.

LIGHT EMITTING DIODE (LED) LUMINAIRES SHALL HAVE A LUMINOUS EFFICIENCY OF AT LEAST 90 LUMENS/W, AN ESTIMATED LIFE OF AT LEAST 50,000 HOURS AT 70% LUMEN MAINTENANCE, AND SHALL INCLUDE A MINIMUM 5-YEAR WARRANTY ON THE ENTIRE LUMINAIRE INCLUDING THE DRIVER. THE LUMINAIRE AND LEDS SHALL HAVE BEEN TESTED IN ACCORDANCE WITH LM-79 AND LM-80.

C.

ANCHOR BOLTS SHALL BE L-TYPE, OF THE SIZE AS RECOMMENDED BY THE POLE MANUFACTURER. ANCHOR BOLTS SHALL BE HOT DIPPED GALVANIZED AFTER FABRICATION.

D.

FIXTURES, LUMINAIRES, POLES, ETC. SHALL INCLUDE ALL NECESSARY MOUNTING AND CONNECTING ACCESSORIES.

E.

CONTRACTOR & LIGHTING FIXTURE SUPPLIER SHALL VERIFY DESCRIPTION & CATALOG NUMBERS IN LIGHTING FIXTURE SCHEDULE ON THE DRAWINGS MATCH AND MOUNTING REQUIREMENTS ARE CORRECT. ADVISE ENGINEER OF ANY CONFLICTS OR DISCREPANCIES.
32.

LIGHTING CONTROLS

A.

PHOTO ELECTRIC CONTROLS SHALL BE MINIMUM 1500 WATT WITH ADJUSTABLE ON/OFF RANGE. LOCATE/SHIELD AS REQUIRED.

REVISIONS

BY

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SKAGIT COUNTY PARKS & REC.

NORTHERN STATE REC. AREA

VETERAN MEMORIAL WALL

ELECTRICAL -

SPECIFICATIONS

DATE: MARCH 16, 2022

SCALE: NONE

DRAWN: KL

DESIGNED: STV

JOB NO: 2181

SHEET

E-3

OF X SHEETS

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