



Oregon State University

OSU Cascades-Little Kits Sitework

ITB #2025-016054

ADDENDUM NO. 1

ISSUE DATE: August 12, 2024

CONTRACT ADMINISTRATOR:

Thomas James

Construction Contracts Administration

Email: ConstructionContracts@oregonstate.edu

This Addendum is hereby issued to inform you of the following revisions and or clarifications to the above-referenced ITB and/or the Contract Documents for the Project, to the extent they have been modified herein. Any conflict or inconsistency between this Addendum and the Solicitation Document or any previous addenda will be resolved in favor of this Addendum. Bids shall conform to this Addendum. Unless specifically changed by this Addendum, all other requirements, terms and conditions of the Solicitation Document and or Contract Documents, and any previous addenda, remain unchanged and can be modified only in writing by OSU. The following changes are hereby made:

REFERENCE/SUPPLEMENTAL MATERIALS:

Item 1

Attachment A to Addendum 1, attached to this addendum, is a revised version of Exhibit G originally included with this ITB. Note that the landscape plans are unchanged, while the site-improvement and infrastructure permits have been revised. Please use this version when planning your response to this ITB.

CAD Drawings are available here: <https://oregonstate.box.com/s/h0twrywkcoe2ofnnp9ulirwgj08yac>

CLARIFICATIONS:

Item 2

OSU-Cascades would like to provide additional information received from Pacific Corp as it pertains to Contractor procured materials and Pacific Corp equipment lead times. The Contractor will be responsible for procuring the conduit, trenching, the 3phase sectionalizer vault, single phase padmount vault and installation of those items after trench is inspected by Pacific Corp site agent. Pacific Corp's 3phase sectionalizer equipment is estimated at a minimum of 6 months out.

QUESTIONS:

Item 3

Q: Can you please provide CAD files for this project to be used during the bidding process?

A: See Item 1 above.

END OF ADDENDUM NO. 1



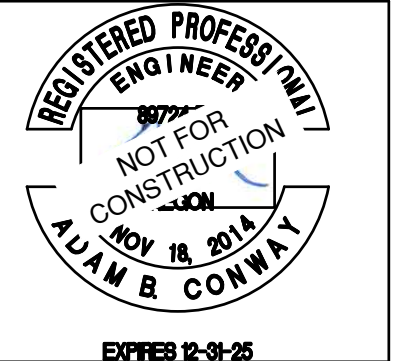
VICINITY MAP
SCALE: 1" = 800'

OSU CASCADES LITTLE KITS CHILD CARE FACILITY

AUGUST 2024
COB PROJECT NO. PLSPR20220845
CITY OF BEND, DESCHUTES COUNTY, OREGON

Attachment A

OWNER:
**OREGON STATE
UNIVERSITY-CASCADES**
1500 SW CHANDLER AVENUE
BEND, OREGON 97702

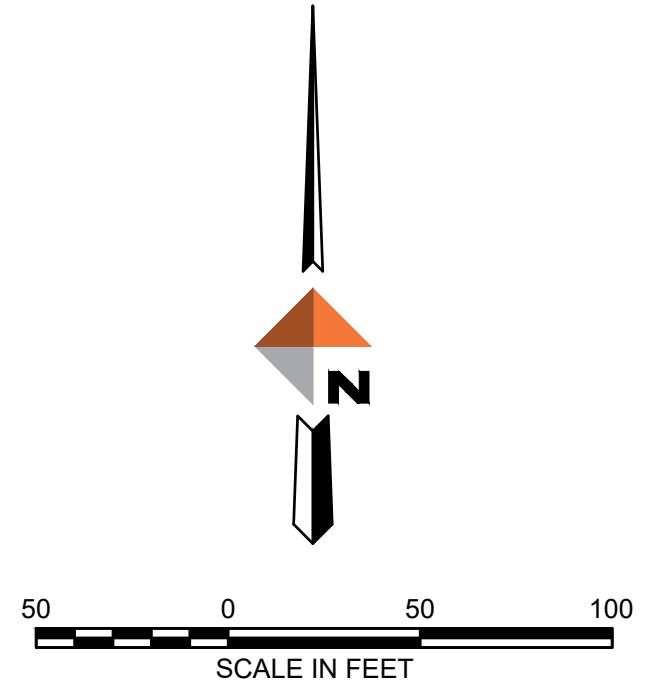


OSU CASCADES
LITTLE KITS
COVER SHEET
DESCHUTES COUNTY, OREGON

SHEET INDEX

G1.0	COVER SHEET
G2.0	NOTES, LEGEND, AND DETAILS
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EC1.0	EXISTING CONDITIONS & DEMO PLAN
SP1.0	SITE & UTILITY PLAN

SITE PLAN
SCALE: 1" = 50'



APPROVALS:

CITY OF BEND ENGINEER:
NOTE: SIGNATURE DOES NOT GRANT APPROVAL TO COMMENCE CONSTRUCTION.

BEND FIRE DEPARTMENT:

PACIFIC POWER:

TDS:

CASCADE NATURAL GAS:

LUMEN:

CONTROL POINT TABLE			
POINT #	COCS NORTHING	COCS EASTING	DESCRIPTION
44	379696.72	3285078.54	SCRIBE X
45	379443.97	3284882.91	SCRIBE X
46	379596.50	3284961.24	SCRIBE X
47	379420.19	3284854.95	PK IN CONCRETE
48	379609.45	3285044.36	PK AND WASHER IN AC
805	379344.34	3284934.50	PK IN AC

PROJECT DATA

APPLICANT/OWNER:
LANDSCAPE ARCHITECT:
CAMERON MCCARTHY
160 EAST BROADWAY
EUGENE, OREGON 97401
JAY BATTLESON - JBATTLESON@CAMERONMCCARTHY.COM

OWNER:
OREGON STATE UNIVERSITY-CASCADES
1500 SW CHANDLER AVENUE
BEND, OREGON 97702

PLANNER/ENGINEER:
DOWL
963 SW SIMPSON AVE, SUITE 200
BEND, OREGON 97702
ADAM CONWAY - ACONWAY@DOWL.COM

TRAFFIC ENGINEER:
TRANSIGHT CONSULTING
61271 SPLENDOR LANE
BEND, OR 97702
JOE BESSMAN - JOE@TRANSIGHTCONSULTING.COM



REVISIONS:

DOWL
WWW.DOWL.COM
963 SW SIMPSON AVE, SUITE 200
BEND, OREGON 97702
541-385-4772

DESIGNED BY: AC
DRAWN BY: RB
SCALE: VARIES
FILE: SA_CSC.CV.14880

DATE: 7/15/2024

VERIFY SCALES
0 1"
BAR EQUALS ONE INCH
ON ORIGINAL DRAWING

SHEET:
G1.0



OREGON UTILITY
NOTIFICATION CENTER
1-800-332-2344

LEGEND

EXISTING	PROPOSED	PROPOSED	EXISTING
		PROPERTY CORNER (FOUND)	
		BENCHMARK (FOUND)	
		BENCHMARK (SET)	
		CATCH BASIN	
		CLEANOUT	
		CONCRETE	
		CONIFEROUS TREE (JUNIPER)	
		CONIFEROUS TREE (PINE)	
		CONTROL MON	
		CULVERT	
		CURB INLET	
		DECIDUOUS TREE	
		CONCEPTUAL TREE LOCATION	
		CONCEPTUAL TREE LOCATION (PONDEROSA PINE)	
		DEMO EXISTING TREE	
		SEE DEMOLITION PLAN FOR TREE REMOVAL.	
		DITCH INLET	
		DRYWELL	
		GAS METER	
		GAS VALVE	
		GRAVEL	
		GUY WIRE	
		HANDICAP	
		MAILBOX	
		MONUMENT (FOUND)	
		MONUMENT (SET)	
		RAILROAD CROSSING ARM	
		EXISTING SANITARY MANHOLE	
		PROPOSED 48" SANITARY MANHOLE	
		PROPOSED 60" SANITARY MANHOLE	
		SIGN	
		STORM MANHOLE	
		TELEPHONE RISER	
		TELEPHONE MANHOLE	
		TRAFFIC SIGNAL CONTROL BOX	
		TRAFFIC SIGNAL W/ MAST ARM	
		UTILITY POLE	
		UTILITY POLE/LIGHT	
		UTILITY VAULT W/ MANHOLE	
		WATER AIR RELEASE VALVE	
		WATER BELL JOINT	
		WATER BLIND FLANGE	
		WATER BLOW OFF VALVE	
		WATER BUTTERFLY VALVE	
		WATER CHECK VALVE	
		WATER COMBINATION AIR RELEASE VALVE	
		WATER DOUBLE DETECTOR CHECK VALVE	
		WATER FIRE DEPT CONNECTION	
		WATER FIRE HYDRANT	
		WATER FLANGED GATE VALVE	
		WATER FLANGED BY MECHANICAL JOINT GATE VALVE	
		WATER GATE VALVE	
		WATER MECHANICAL JOINT	
		WATER METER	
		WATER PRESSURE REDUCING VALVE	
		WATER PRESSURE REGULATOR/SUSTAINING	
		WATER PRESSURE RELIEF VALVE	
		WATER RESTRAINED MECHANICAL JOINT	

FADED BACK FEATURES ARE EXISTING (EXCEPT FOR FOUND MONUMENTS)

ABBREVIATIONS

AC	ASPHALT CONCRETE
BL	BIKE LANE
COB	CITY OF BEND
CTL	CENTER TURN LANE
CY	CUBIC YARDS
DWG	DRAWING
EP	EDGE OF PAVEMENT
FC	FACE OF CURB (FLOWLINE)
FG	FINISHED GRADE
HMAC	HOT MIXED ASPHALT CONCRETE
ISD	INTERSECTION SIGHT DISTANCE
N/A	NOT APPLICABLE
OPT	OPTIONAL
PCC	PORTLAND CEMENT CONCRETE
PKG	PARKING
PS	PLANTER STRIP
RA	ROUNDBOUT
ROW	RIGHT OF WAY
STD	STANDARD
TC	TOP OF CURB (BACK)
TL	TRAVEL LANE
TP	TOP OF PAVEMENT
UGB	URBAN GROWTH BOUNDARY
VAR	VARIES

OWNER:
STATE OF OREGON
3015 SW WESTERN BLVD.
CORVALLIS, OREGON 97333

ENGINEER:
DOWL
963 SW SIMPSON AVE, SUITE 200
BEND, OREGON 97702
ADAM CONWAY - ACONWAY@DOWL.COM

PROPERTY DATA:
TAX LOT: 181206C002100
AREA: 1.07 ACRES, (APPROXIMATE PROJECT LIMITS)
ZONE: MU
WATER: CITY OF BEND
SEWER: CITY OF BEND
POWER: PACIFIC POWER
PHONE: LUMEN
NATURAL GAS: CASCADE NATURAL GAS
SCHOOL DISTRICT: BEND-LAPINE
FIRE: CITY OF BEND
TOPOGRAPHY: NATIVE VEGETATION AND ROCK

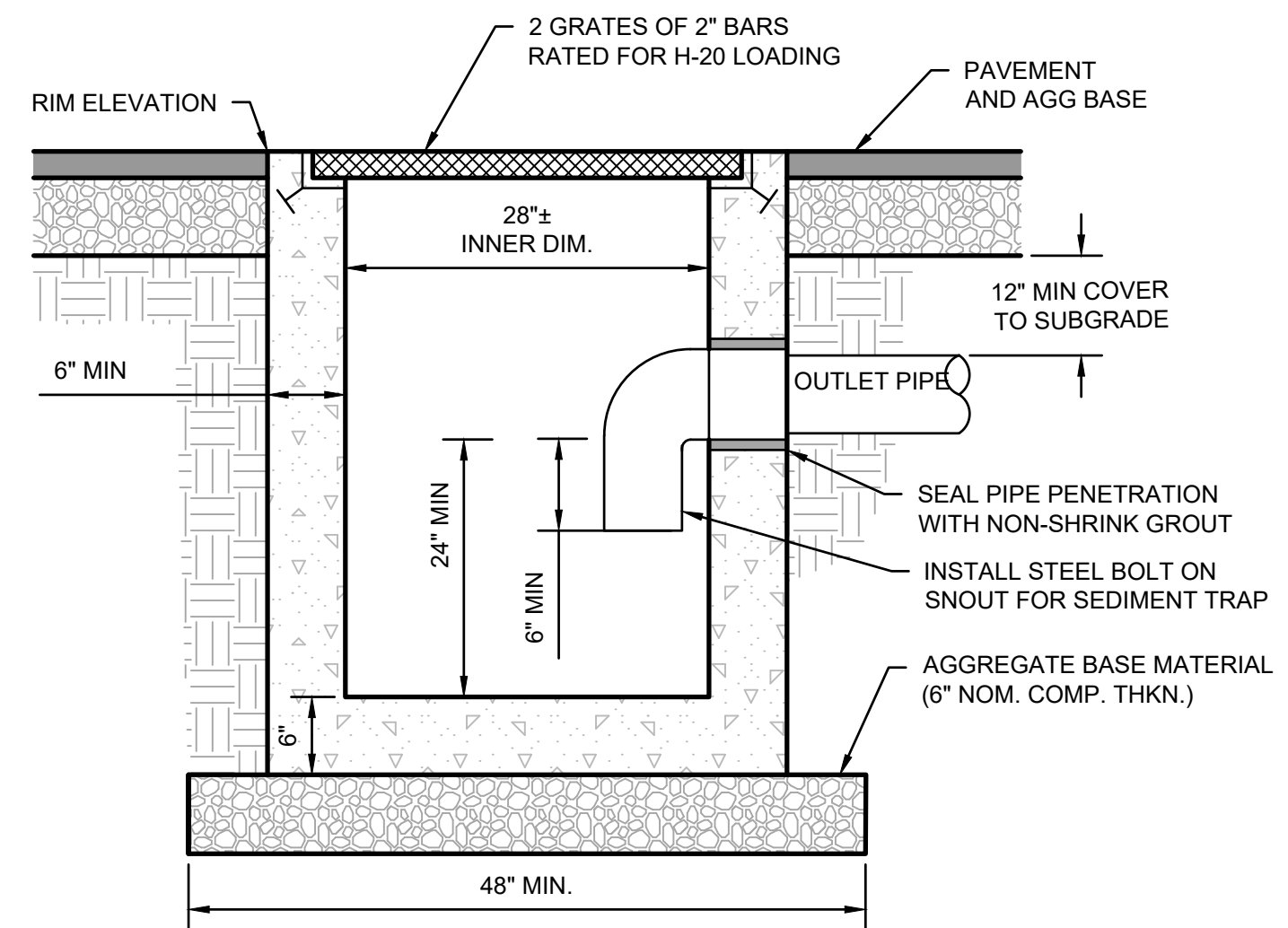
THERE ARE NO KNOWN, NATURAL HAZARDS OR LOCALLY OR FEDERALLY DESIGNATED HISTORIC AND CULTURAL RESOURCES.

TECHNICAL SPECIFICATIONS

- THE OREGON STANDARD SPECIFICATIONS FOR CONSTRUCTION (OSS), LATEST EDITION, FORM THE BASIS FOR THE TECHNICAL SPECIFICATIONS FOR THIS PROJECT.

NOTE:

- CATCH BASIN SHALL HAVE INTERIOR DIMENSIONS OF 28"x28"(±)



1 CATCH BASIN DETAIL
G2.0 N.T.S.



OSU CASCADES
LITTLE KITS
NOTES, LEGEND & DETAILS
DESCHUTES COUNTY, OREGON



REVISIONS:

NO.	DESCRIPTION

DOWL
WWW.DOWL.COM
963 SW Simpson Ave, #200
Bend, Oregon 97702
541-385-4772

DESIGNED BY: AC
DRAWN BY: RB
SCALE: VARIES
FILE: SA_CS_CV1-1889
DATE: 7/15/2024

VERIFY SCALES
0 1"
BAR EQUALS ONE INCH
ON ORIGINAL DRAWING

SHEET:
G2.0

OREGON UTILITY
NOTIFICATION CENTER
1-800-332-2344



GENERAL NOTES:

1. NO WORK IS PERMITTED WITHIN THE RIGHT-OF-WAY UNDER THIS PERMIT. ADDITIONAL PERMITS ARE REQUIRED FOR ANY IMPROVEMENTS OR GRADING WITHIN RIGHT-OF-WAY.
2. NO CONSTRUCTION SHALL BE STARTED WITHOUT A PERMIT ISSUED BY THE CITY BUILDING DEPARTMENT. THE CITY BUILDING DEPARTMENT AND THE DESIGN ENGINEER SHALL BE NOTIFIED AT LEAST 24 HOURS PRIOR TO THE START OF CONSTRUCTION. ANY CONSTRUCTION WORK DONE PRIOR TO NOTICE TO PROCEED BEING ISSUED OR WITHOUT INSPECTION WILL BE REJECTED.
3. CONTRACTOR SHALL VERIFY ALL CONDITIONS ON THE JOB SITE INCLUDING BUT NOT LIMITED TO, ALL DIMENSIONS, GRADES, ELEVATIONS, EXTENT AND COMPATIBILITY TO THE EXISTING SITE CONDITIONS, AND WITH THE WORK DESCRIBED ON THE ENGINEER'S DRAWINGS. ANY DISCREPANCIES OR UNEXPECTED CONDITIONS THAT AFFECT OR CHANGE THE WORK DESCRIBED IN THE CONTRACT DOCUMENTS SHALL BE BROUGHT TO THE ENGINEER'S ATTENTION IMMEDIATELY. CONTRACTOR SHALL NOT PROCEED WITH ANY OF THE WORK IN THE AREA OF DISCREPANCIES UNTIL ALL SUCH DISCREPANCIES ARE RESOLVED. IF THE CONTRACTOR CHOOSES TO DO SO, THEN IT IS UNDERSTOOD THAT THE CONTRACTOR IS CHOOING TO PROCEED AT THE CONTRACTOR'S OWN RISK AND SHALL INCUR ALL COSTS, IF ANY TO RESOLVE THE ISSUES TO THE SATISFACTION OF THE ENGINEER.
4. A CITY INSPECTOR ACTING ON BEHALF OF THE CITY MAY REQUIRE REVISIONS IN PLANS TO SOLVE UNFORESEEN PROBLEMS THAT MAY ARISE IN THE FIELD.
5. ALL CONSTRUCTION WORK AND INSTALLATIONS SHALL CONFORM TO THE CITY STANDARDS AND SPECIFICATIONS, AND ALL WORK SHALL BE SUBJECT TO THE APPROVAL OF THE CITY.
6. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO CONTACT "UNDERGROUND LOCATE SERVICE" AT 1-800-332-2344 AT LEAST 48 BUSINESS-DAY HOURS PRIOR TO THE START OF CONSTRUCTION FOR THE LOCATION OF POWER, GAS, CABLE TV AND TELEPHONE UNDERGROUND FACILITIES. THE CONTRACTOR WILL ALSO BE RESPONSIBLE FOR CONTACTING THE APPROPRIATE PUBLIC AGENCY FOR THE LOCATION OF UNDERGROUND FACILITIES.
7. ALL UTILITIES SHOWN ARE ACCURATE TO THE EXTENT OF AVAILABLE RECORDS AND KNOWLEDGE. NO POTHOLING TO VERIFY LOCATIONS AND ELEVATIONS WAS AUTHORIZED BY THE OWNER. THE CONTRACTOR HAS THE TOTAL RESPONSIBILITY TO VERIFY THE LOCATION OF EXISTING UNDERGROUND UTILITIES AND TO NOTIFY THE UTILITY COMPANIES WHEN WORKING IN THEIR PROXIMITY. CONTRACTOR TO VERIFY LOCATION OF EXISTING UTILITIES PRIOR TO CONSTRUCTION. OREGON LAW REQUIRES YOU TO FOLLOW RULES ADOPTED BY THE OREGON UTILITY NOTIFICATION CENTER. THOSE RULES ARE SET FORTH IN OAR 952-001-0010 THROUGH 952-001-0090. YOU MAY OBTAIN COPIES OF THE RULES BY CALLING THE CENTER. THE TELEPHONE NUMBER FOR THE OREGON UTILITY NOTIFICATION CENTER IS (503)232-2987.
8. ALL GRADING SHALL BE IN CONFORMANCE WITH THE CURRENT CITY STANDARDS AND SPECIFICATIONS AND CURRENT GRADING ORDINANCE. ALL SUBGRADE MATERIAL SHALL BE CONSIDERED CLASS A AND COMPACTED TO 95% OF OPTIMUM DENSITY. AS SPECIFIED IN THESE PLANS, ALL FILL MATERIAL SHALL BE COMPACTED TO 95% RELATIVE COMPACTION PER THE CITY TESTING REQUIREMENTS.
9. ALL UNSUITABLE SOILS MATERIALS, RUBBISH AND DEBRIS RESULTING FROM GRADING OPERATIONS SHALL BE REMOVED FROM THE JOB SITE AND DISPOSED OF PROPERLY.
10. THE CONTRACTOR SHALL EMPLOY ALL LABOR, EQUIPMENT, AND METHODS REQUIRED TO PREVENT DUST IN AMOUNTS DAMAGING TO PROPERTY, CULTIVATED VEGETATION AND DOMESTIC ANIMALS OR CAUSING A NUISANCE TO PERSONS OCCUPYING BUILDINGS IN THE VICINITY OF THE JOB SITE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE CAUSED BY DUST RESULTING FROM CONSTRUCTION.
11. THE CONTRACTOR SHALL FOLLOW ALL APPLICABLE INDUSTRIAL SAFETY REGULATIONS. THE CITY AND DESCHUTES COUNTY AND THEIR OFFICIALS, THE ENGINEER, AND THE OWNER SHALL NOT BE RESPONSIBLE FOR ENFORCING SAFETY REGULATIONS.
12. MATERIAL QUANTITIES USED, NOTED, OR PROVIDED IN A SEPARATE ITEMIZED QUANTITY TAKE-OFF ARE AN ENGINEER'S OPINION OF PROBABLE MATERIAL REQUIREMENTS, AND IS AN ESTIMATE ONLY. CONTRACTOR'S HAVE THE SOLE RESPONSIBILITY OF MAKING THEIR OWN QUANTITY TAKE-OFF AND COST ESTIMATE.
13. ALL WORK SHALL BE PERFORMED BY A CITY APPROVED CONTRACTOR (INCLUDING SUBCONTRACTORS).
14. CITY ENGINEER'S SIGNATURE DOES NOT CONSTITUTE APPROVAL OF FACILITIES PROPOSED ON PRIVATE PROPERTY. SEPARATE PERMITS ISSUED BY THE BUILDING DEPARTMENT ARE REQUIRED AND SHALL BE OBTAINED BY THE DEVELOPER FOR FACILITIES LOCATED OUTSIDE OF THE PUBLIC RIGHT-OF-WAY.
15. ALL WATER MAIN CONNECTIONS TO BE DESIGNED AND CONSTRUCTED WITH CROSS CONNECTION PROTECTION.
16. CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO PROTECT EXISTING UTILITIES, SURFACE FEATURES, LANDSCAPING, IRRIGATION SYSTEMS AND IMPROVEMENTS. ANY DAMAGE TO THESE EXISTING FACILITIES OR IMPROVEMENTS RESULTING FROM THE CONTRACTOR'S OPERATIONS SHALL BE REPAIRED OR REPLACED TO EXISTING OR BETTER CONDITIONS, AT THE CONTRACTOR'S EXPENSE.
17. ALL CONSTRUCTION SHALL CONFORM TO STATE AND FEDERAL STANDARDS REGARDING ACCESSIBILITY TO PEOPLE WITH DISABILITIES.

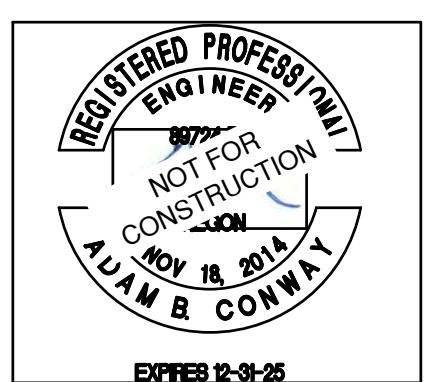
GRADING AND EROSION AND SEDIMENT CONTROL (ESC) NOTES

1. THE ENGINEER OF RECORD CAN PROVIDE ADDITIONAL BEST MANAGEMENT PRACTICES (BMP) FROM SECTION 9.4.3 IN THE CENTRAL OREGON STORMWATER MANUAL (COSM) THAT APPLY TO THE PROJECT.
2. HOLD A PRE-CONSTRUCTION MEETING THAT INCLUDES THE INSPECTOR TO DISCUSS EROSION AND SEDIMENT CONTROL MEASURES AND CONSTRUCTION LIMITS.
3. THE EROSION AND SEDIMENT CONTROL (ESC) PLAN MUST BE KEPT ONSITE AT ALL TIMES WHEN WORK IS OCCURRING.
4. THE ESC MEASURES SHOWN ON THIS PLAN ARE MINIMUM REQUIREMENTS FOR ANTICIPATED SITE CONDITIONS. DURING THE CONSTRUCTIONS PERIOD, THE MEASURES MUST BE UPGRADED AS NEEDED TO COMPLY WITH ALL APPLICABLE LOCAL, STATE, AND FEDERAL EROSION AND SEDIMENT CONTROL REGULATIONS.
5. THE FOLLOWING CONSTRUCTION SEQUENCE SHALL BE FOLLOWED IN ORDER TO BEST MINIMIZE THE POTENTIAL FOR EROSION AND SEDIMENTATION CONTROL PROBLEMS:
 - a. FENCE OR FLAG AREAS TO BE PROTECTED OR LEFT UNDISTURBED DURING CONSTRUCTION
 - b. INSTALL GRAVELED OR PAVED CONSTRUCTION ENTRANCES, EXITS, AND PARKING AREAS TO REDUCE THE TRACKING OF SEDIMENT ONTO PUBLIC AND PRIVATE ROADS
 - c. CLEAR AND GRUB SUFFICIENTLY FOR INSTALLATION OF TEMPORARY ESC BMPS
 - d. INSTALL TEMPORARY ESC BMPS, CONSTRUCTING SEDIMENT TRAPPING BMPS AS ONE OF THE FIRST STEPS PRIOR TO GRADING
 - e. CLEAR, GRUB AND GRADE INDIVIDUAL AND ROUGH GRADE FOR ROADS AND UTILITY LOCATIONS
 - f. CLEAR, GRUB AND GRADE INDIVIDUAL LOTS OR GROUPS OF LOTS
 - g. TEMPORARILY STABILIZE, THROUGH RE-VEGETATION OR OTHER APPROPRIATE BMPS, LOTS OR GROUPS OF LOTS IN SITUATIONS WHERE SUBSTANTIAL CUT OR FILL SLOPES RESULT FROM THE SITE GRADING
 - h. CONSTRUCT ROADS, BUILDINGS, PERMANENT STORMWATER FACILITIES (I.E. INLETS, PONDS, UIC FACILITIES, ETC.)
 - i. PROTECT ALL PERMANENT STORMWATER FACILITIES UTILIZING THE APPROPRIATE BMPS
 - j. REMOVE TEMPORARY ESC CONTROLS WHEN PERMANENT STORMWATER FACILITIES HAVE BEEN INSTALLED, ALL LAND-DISTURBING ACTIVITIES HAVE CEASED, AND VEGETATION HAS BEEN ESTABLISHED IN THE AREAS NOTED ON THE ACCEPTED ESC PLAN
6. RETAIN THE DUFF LAYER, NATIVE TOPSOIL, AND NATURAL VEGETATION IN AN UNDISTURBED STATE TO THE MAXIMUM EXTENT AND DURATION PRACTICAL.
7. INSPECT ALL ROADWAYS ADJACENT TO THE CONSTRUCTION ACCESS ROUTE AT THE END OF EACH DAY. SIGNIFICANT AMOUNTS OF SEDIMENT THAT LEAVES THE CONSTRUCTION SITE MUST BE CLEANED UP WITHIN 24 HOURS. VACUUMING OR DRY SWEEPING MUST BE USED TO CLEAN UP RELEASED SEDIMENT AND SEDIMENT MUST NOT BE INTENTIONALLY WASHED INTO STORM SEWERS, DRAINAGE WAYS, OR WATER BODIES.
8. COVER AND SECURE ALL DUMP TRUCK LOADS LEAVING THE CONSTRUCTION SITE TO MINIMIZE SPILLAGE ON ROADS.

9. RESTORE CONSTRUCTION ACCESS ROUTE EQUAL TO OR BETTER THAN THE PRE-CONSTRUCTION CONDITION. CONTROL FUGITIVE DUST FROM CONSTRUCTION ACTIVITY.
10. STABILIZE EXPOSED UNWORKED SOILS (INCLUDING STOCKPILES), WHETHER AT FINAL GRADE OR NOT, WITHIN 10 CALENDAR DAYS DURING THE REGIONAL DRY SEASON (JULY 1 THROUGH SEPTEMBER 30) AND WITHIN 5 CALENDAR DAYS DURING THE REGIONAL WET SEASON (OCTOBER 1 THROUGH JUNE 30).
11. PROTECT INLETS, DRYWELLS, CATCH BASINS AND OTHER STORMWATER MANAGEMENT FACILITIES FROM SEDIMENT, WHETHER OR NOT FACILITIES ARE OPERABLE.
12. KEEP ROADS ADJACENT TO INLETS CLEAN.
13. INSPECT INLETS WEEKLY AT A MINIMUM AND DAILY DURING STORM EVENTS. CLEAN OR REMOVE AND REPLACE INLET PROTECTION DEVICES BEFORE SIX INCHES OR SEDIMENT CAN ACCUMULATE.
14. INSTALL SEDIMENT CONTROLS ALONG THE SITE PERIMETER ON ALL DOWN GRADIENT SIDES OF THE CONSTRUCTION SITE BEFORE COMMENCING EARTH DISTURBING ACTIVITIES.
15. WHENEVER POSSIBLE, CONSTRUCT STORMWATER CONTROL FACILITIES (DETENTION/RETENTION STORAGE POND OR SWALES) BEFORE GRADING BEGINS. THESE FACILITIES SHOULD BE OPERATIONAL BEFORE THE CONSTRUCTION OR IMPERVIOUS SITE IMPROVEMENTS.
16. STOCKPILE MATERIALS (SUCH AS TOPSOIL) ONSITE, KEEPING OFF OF ROADWAY AND SIDEWALKS.
17. COVER, CONTAIN AND PROTECT ALL CHEMICALS, LIQUID PRODUCTS, PETROLEUM PRODUCT, AND NON-INERT WASTES PRESENTS ONSITE FROM VANDALISM. MAINTAIN A SUPPLY OF MATERIALS ON HAND TO ADDRESS AND CONTAIN SPILLS.
18. LOCATE DESIGNATED VEHICLE AND EQUIPMENT SERVICE AREAS, FUEL, AND MATERIALS AWAY FROM DRAINAGE INLETS, WATER COURSES, AND CANALS. PROPERLY CONTAIN AREAS USING BERMS, SAND BAGS, OR OTHER BARRIERS.
19. REGULARLY INSPECT AND MAINTAIN EQUIPMENT, ESPECIALLY FOR DAMAGED HOSES AND LEAKY GASKETS. CONDUCT MAINTENANCE AND REPAIR OF HEAVY EQUIPMENT AND VEHICLES (I.E. OIL CHANGES, FUEL TANK DRAIN DOWN, ETC) THAT MAY RESULT IN DISCHARGE OR SPILLAGE OF POLLUTANTS USING SPILL PREVENTION MEASURES, SUCH AS DRIP PANS. CLEAN ALL CONTAMINATED SURFACES IMMEDIATELY FOLLOWING ANY DISCHARGE OR SPILL INCIDENT, PERFORM REPAIRS ONSITE USING TEMPORARY PLASTIC OR OIL ABSORBING BLANKETS BENEATH THE VEHICLE.
20. DESIGNATE AN AREA FOR CLEANING PAINTING EQUIPMENT AND TOOLS. NEVER CLEAN BRUSHES OR RINSE CONTAINERS INTO THE STREET, GUTTER, DRAINAGE INLET, OR WATERWAY.
21. APPLY LANDSCAPING OR AGRICULTURAL CHEMICALS, INCLUDING FERTILIZERS AND PESTICIDES, IN SUCH A MANNER, AND AT APPLICATIONS RATES, THAT INHIBITS THE LOSS OF CHEMICALS INTO STORMWATER RUNOFF FACILITIES.
22. INSECT ON A REGULAR BASIS (AT A MINIMUM WEEKLY, AND DAILY DURING/AFTER A RUNOFF PRODUCING STORM EVENT) AND MAINTAIN ALL EROSION AND SEDIMENT CONTROL BMPS TO ENSURE SUCCESSFUL PERFORMANCE OF THE BMPS.
23. REMOVE TEMPORARY ESC BMPS WITHIN 30 DAYS AFTER THE TEMPORARY BMPS ARE NO LONGER NEEDED. PERMANENTLY STABILIZE AREAS THAT ARE DISTURBED DURING THE REMOVAL PROCESS.
24. KEEP SEDIMENT ON THE PROJECT SITE, TO THE MAXIMUM EXTENT PRACTICAL.
25. CONTROL FUGITIVE DUST FROM CONSTRUCTION ACTIVITY. DUST CONTROL MUST BE CONTINUOUS, PARTICULARLY DURING THE DRY SEASON.
26. DESIGNATE THE LOCATION OF A SLURRY PIT WHERE CONCRETE TRUCKS AND EQUIPMENT CAN BE WASHED OUT. SLURRY PITS ARE NOT TO BE LOCATED IN, OR UPSTREAM OF, A SWALE, DRAINAGE AREA, STORMWATER FACILITY, WATER BODY, OR IN AN AREA WHERE A STORMWATER FACILITY EXISTS OR IS PROPOSED.

GENERAL UTILITY NOTES:

1. ALL PRIVATE UTILITIES SHALL BE IN CONFORMANCE WITH THESE PLANS, PROJECT SPECIFICATIONS, AND 2017 OREGON PLUMBING SPECIALTY CODE (OPSC).
2. ALL SANITARY SEWER PIPING UNDER COVERED PORCHES, OR WITHIN 5' OF THE BUILDING SHALL BE OF MATERIALS IN CONFORMANCE WITH THE OPSC. ALL OTHER SEWER PIPING SHALL BE PVC ASTM D-3034.
3. ALL STORM SEWER PIPING IN COMMON TRENCHES WITH WATER, OR LOCATED UNDER PORCHES, OR WITHIN 5' OF THE BUILDING SHALL BE OF MATERIALS IN CONFORMANCE WITH OPSC. ALL OTHER STORM SEWER PIPING SHALL BE PVC ASTM-3034, UNLESS NOTED OTHERWISE.
4. PER 2017 OPSC 314.4, EXCAVATIONS SHALL BE COMPLETELY BACKFILLED AS SOON AFTER INSPECTION AS PRACTICABLE. PRECAUTION SHALL BE TAKEN TO ENSURE COMPACTNESS OF BACKFILL AROUND PIPING WITHOUT DAMAGE TO SUCH PIPING. TRENCHES SHALL BE BACKFILLED IN THIN LAYERS TO 12 INCHES ABOVE THE TOP OF THE PIPING WITH CLEAN EARTH, WHICH SHALL NOT CONTAIN STONES, BOULDERS, CINDER FILL, FROZEN EARTH, CONSTRUCTION DEBRIS, OR OTHER MATERIALS THAT WILL DAMAGE OR BREAK THE PIPING OR CAUSE CORROSIVE ACTION. FILL SHALL BE PROPERLY COMPACTED. PRECAUTIONS SHALL BE TAKEN TO ENSURE PERMANENT STABILITY FOR PIPE LAID IN FILL.
5. ALL STORM DRAIN PIPING AND FITTINGS SHALL MEET THE 2017 OPSC AND BE THE SAME AS SPECIFIED FOR SANITARY SEWERS IN SECTION 715.0 AND STORM DRAINAGE IN SECTION 1101.4 OF THE OPSC.
6. CATCH BASINS SHALL COMPLY WITH 2017 OPSC 1101.11
7. CLEANOUTS SHALL BE INSTALLED AT INTERVALS NOT TO EXCEED 100' IN STRAIGHT RUNS AND FOR EACH AGGREGATE HORIZONTAL CHANGE IN DIRECTION EXCEEDING 135 DEGREES PER 2017 OPSC 719.0 & 1101.13.
8. MANHOLES - THE INLET AND OUTLET CONNECTIONS SHALL BE MADE BY USE OF A FLEXIBLE COMPRESSION JOINT NOT LESS THAN 12 INCHES AND NOT EXCEEDING 3 FEET PER 2017 OPSC 719.6.
9. CONNECT BUILDING DOWNSPOUTS TO PROPOSED ROOF DRAINS, COORDINATE WITH BUILDING PLUMBING PLANS.
10. PER OPSC 718.1, BUILDING SEWERS SHALL BE RUN IN PRACTICAL ALIGNMENT AND AT A UNIFORM SLOPE OF NOT LESS THAN 1/4 INCH PER FOOT TOWARD THE POINT OF DISPOSAL. EXCEPTION: WHERE APPROVED BY THE BUILDING OFFICIAL AND WHERE IT IS IMPRACTICAL, DUE TO THE DEPTH OF THE STREET SEWER OR TO THE STRUCTURAL FEATURES OR TO THE ARRANGEMENT OF A BUILDING OR STRUCTURE, TO OBTAIN A SLOPE OF 1/4 INCH PER FOOT, SUCH PIPE OR PIPING 4 INCHES THROUGH 6 INCHES SHALL BE PERMITTED TO HAVE A SLOPE OF NOT LESS THAN 1/8 INCH PER FOOT AND SUCH PIPING 8 INCHES AND LARGER SHALL BE PERMITTED TO HAVE A SLOPE OF NOT LESS THAN 1/16 INCH PER FOOT PER 2017 OPSC 718.1.
11. SUBSOIL, FOUNDATION, AND ABSORPTION DRAINS THAT ARE SUBJECT TO REVERSE FLOW SHALL BE EQUIPPED WITH APPROVED, ACCESSIBLE BACKWATER VALVES AS REQUIRED BY THE BUILDING OFFICIAL PER OPSC 1101.6.2.(3). SEE STORM DRAIN KEY NOTES SHEET Cx.xx FOR FOUNDATION DRAIN CONNECTION POINTS (FOUNDATION DRAIN NOT SHOWN ON PLAN FOR CLARITY PURPOSES).
12. MECHANICAL (MECH.) JOINT RESTRAINTS ON FIRE SERVICE AND DOMESTIC SERVICE PIPING SHALL BE "MEGA LUG" FITTINGS AS MANUFACTURED BY EBAA IRON, INC. OR ENGINEER-APPROVED EQUAL COMPLYING WITH AWWA C-600 AND ASTM D-2774. SEE SHEET C2.0 FOR MECH. JOINT RESTRAINT TABLE.
13. ALL SEWER DIMENSIONS AND SLOPES SHOWN ARE TO CENTER OF MANHOLE OR ANGLE POINT.



**OSU CASCADES
LITTLE KITS
CONSTRUCTION NOTES**
 DESCHUTES COUNTY, OREGON



REVISIONS:

WWW.DOWL.COM
DOWL
 963 SW Simpson #200
 Bend, Oregon 97702
 541-385-4772

DESIGNED BY: AC
 DRAWN BY: RB
 SCALE: VARIES
 FILE: SA-CSE-CV-1889D
 DATE: 7/15/2024

VERIFY SCALES
 0 1"
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 ON ORIGINAL DRAWING

SHEET:
G2.1

OREGON UTILITY
 NOTIFICATION CENTER
 1-800-332-2344





DATE: 12-24-23

OSU CASCADES LITTLE KITS STANDARD DETAILS

DESCHUTES COUNTY, OREGON



REVISIONS:

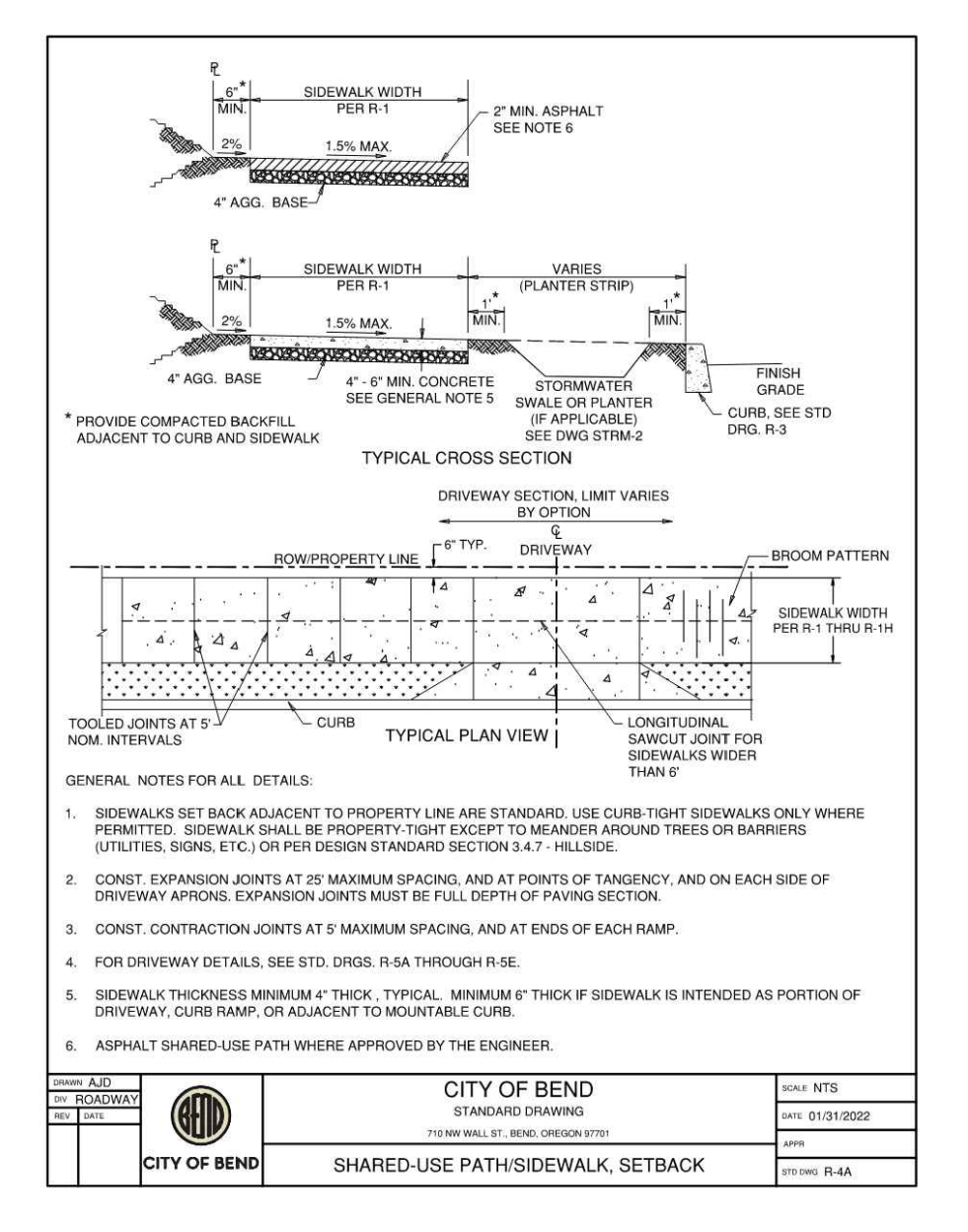
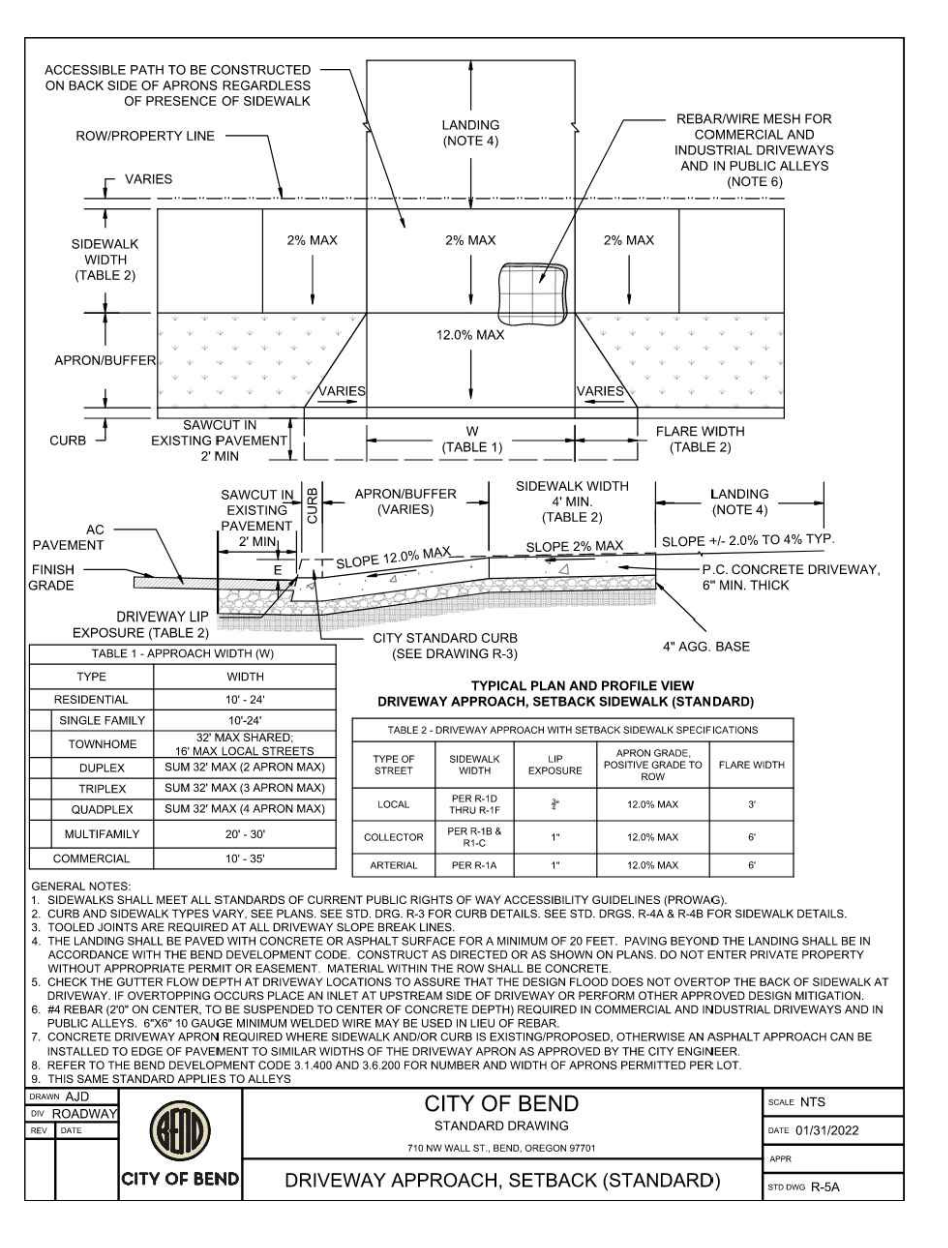
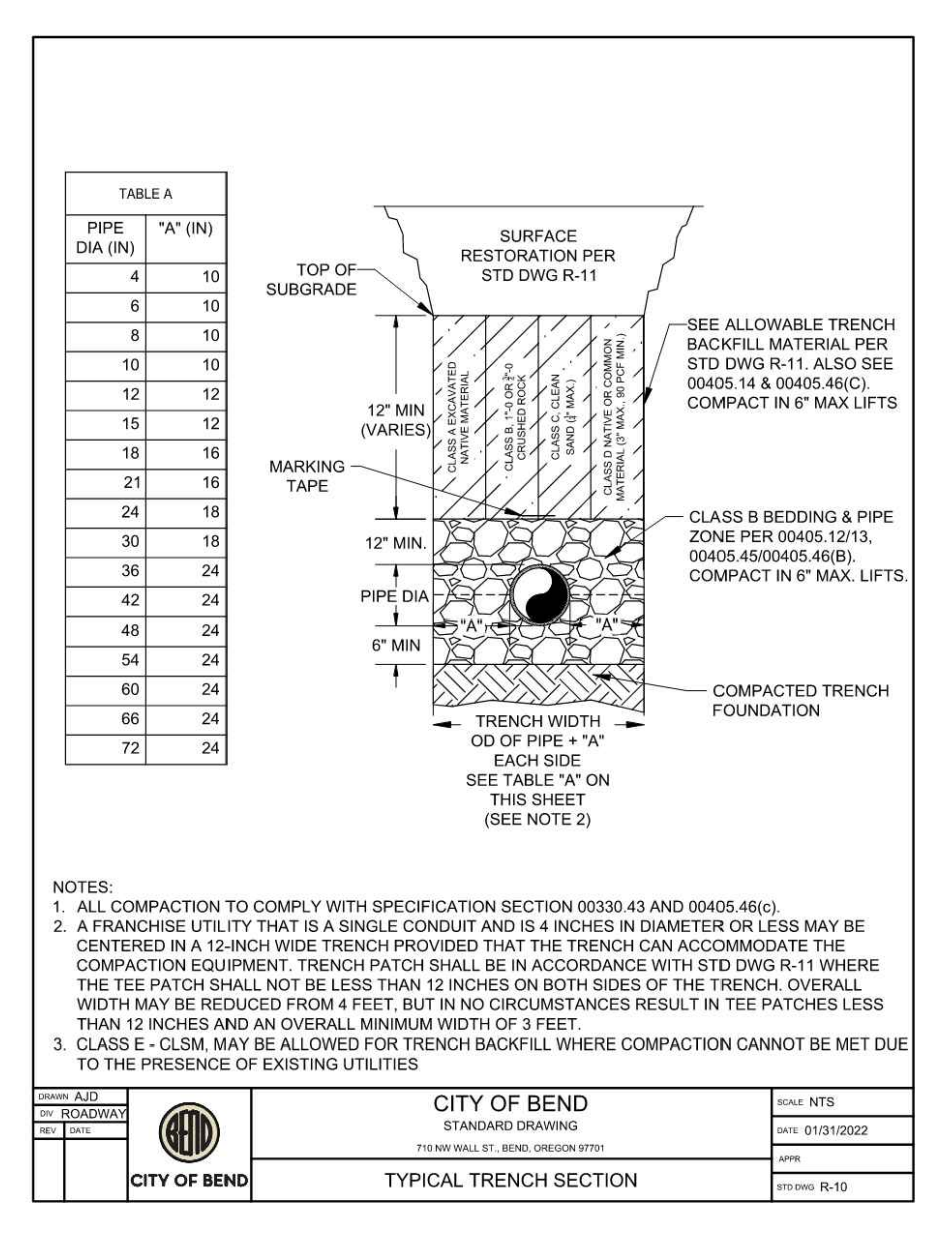
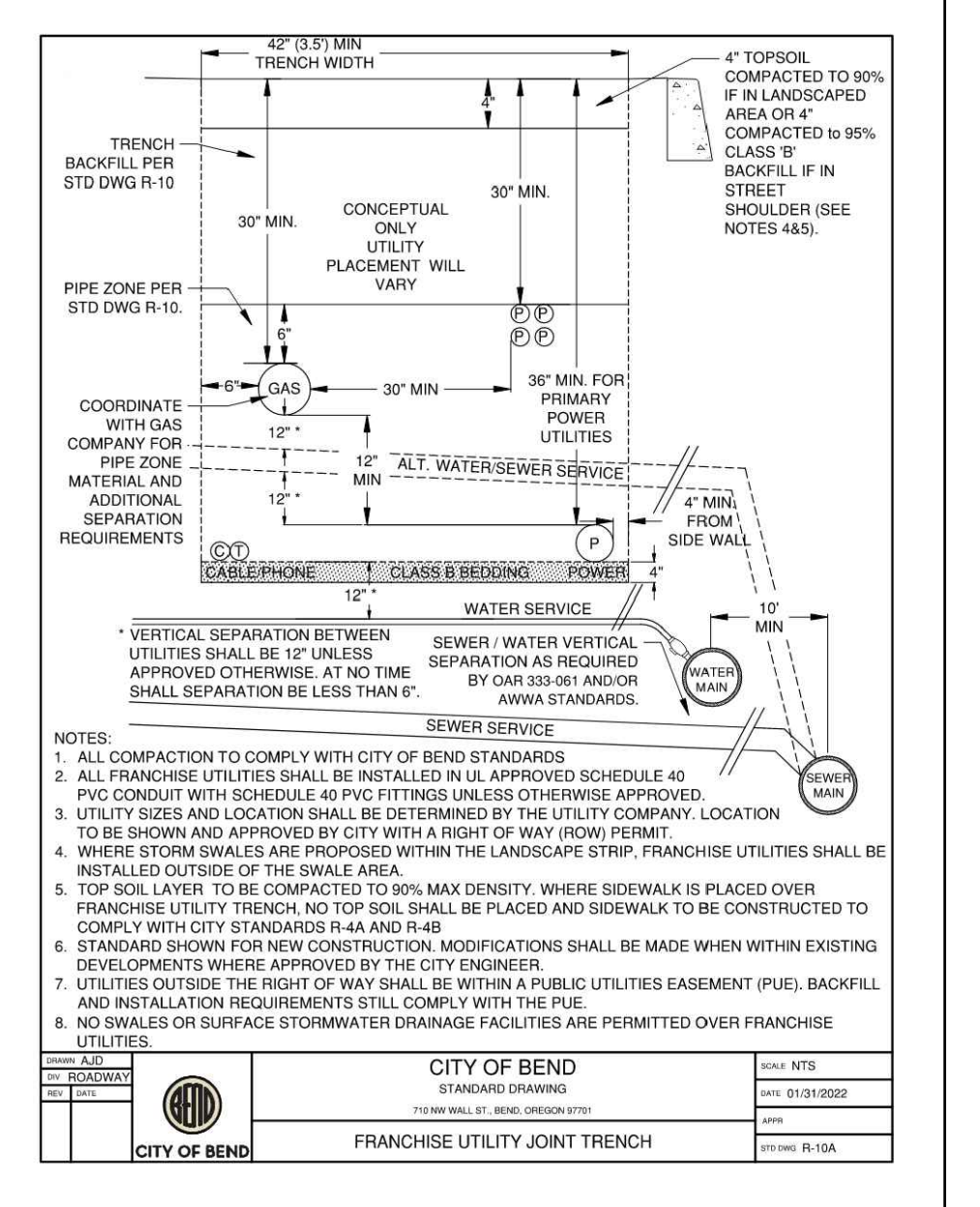
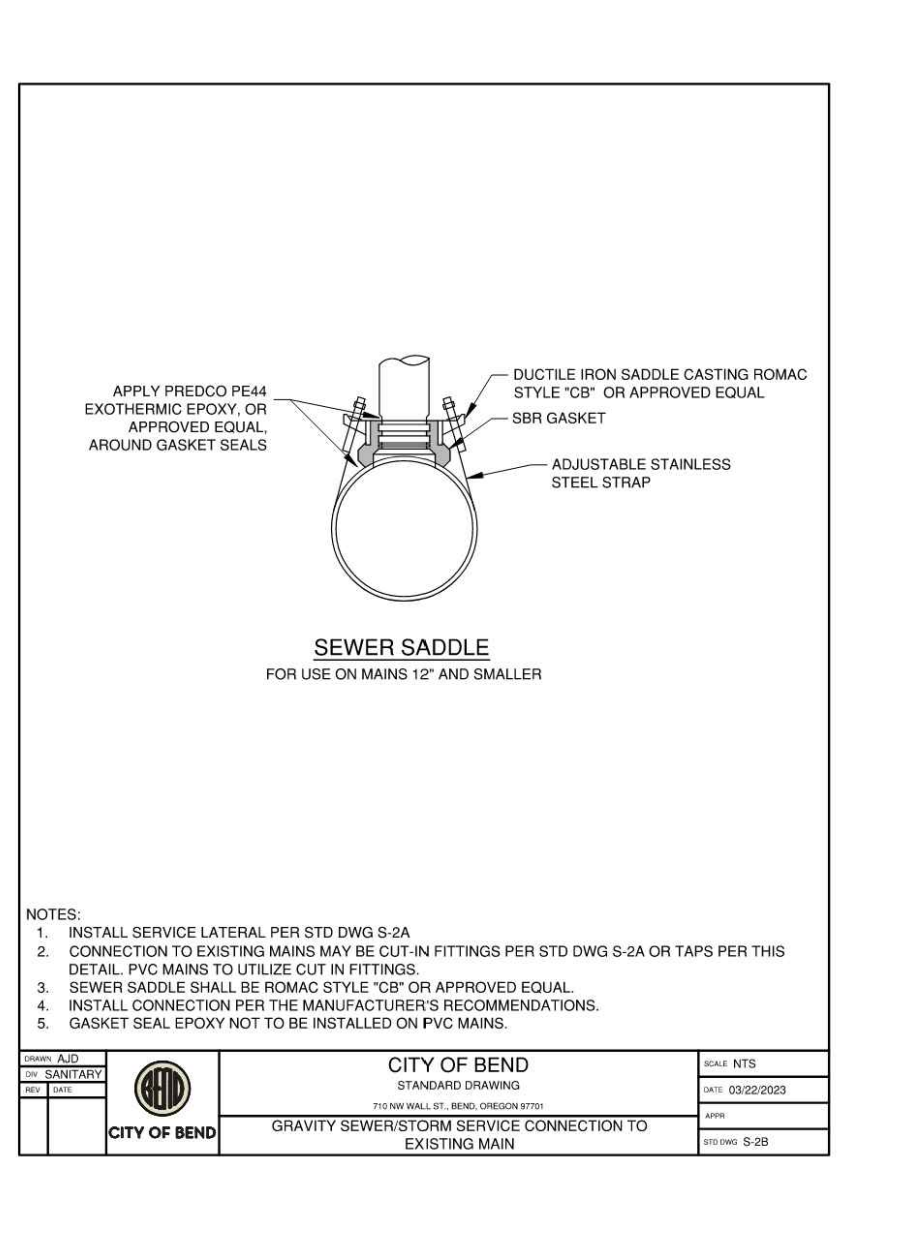
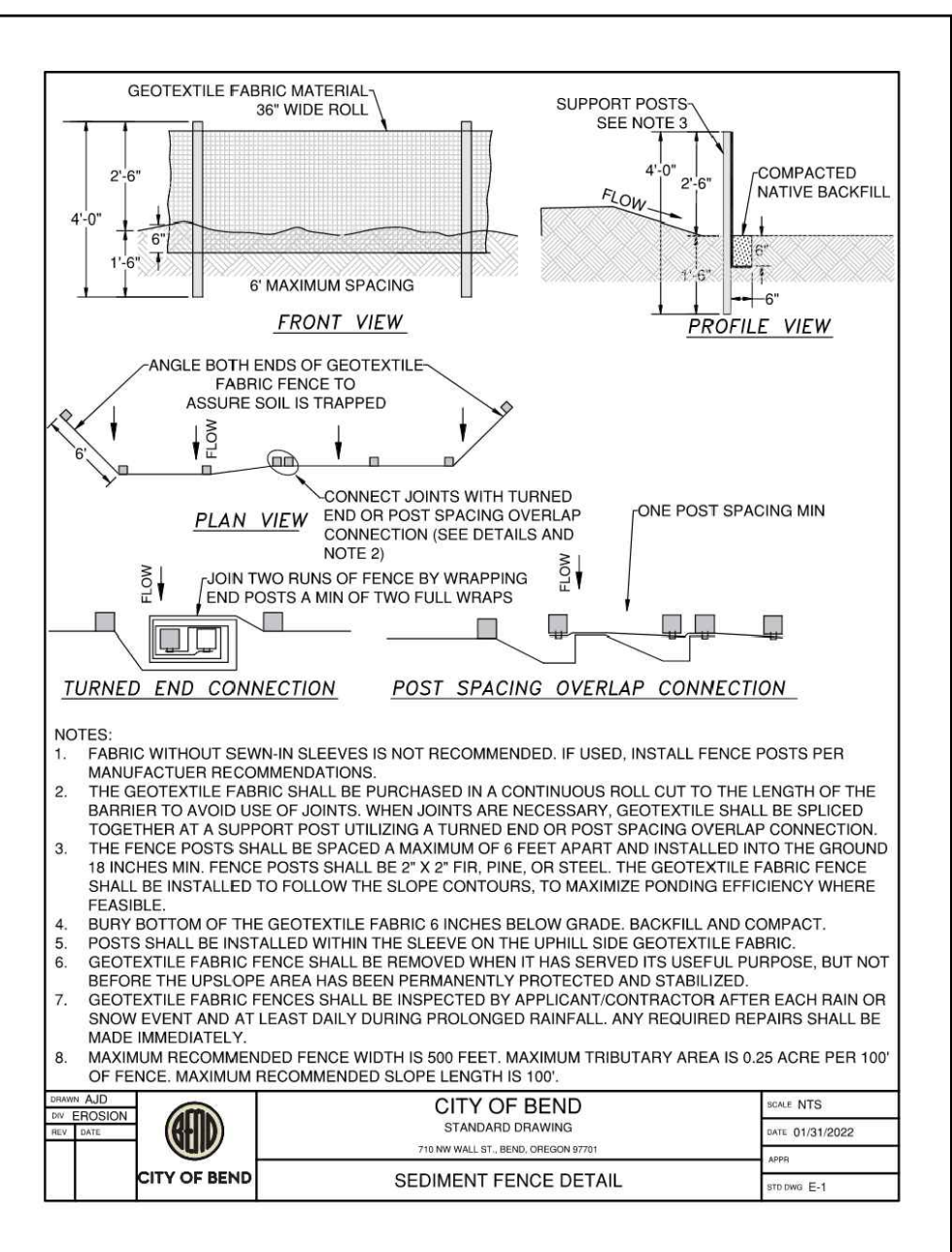
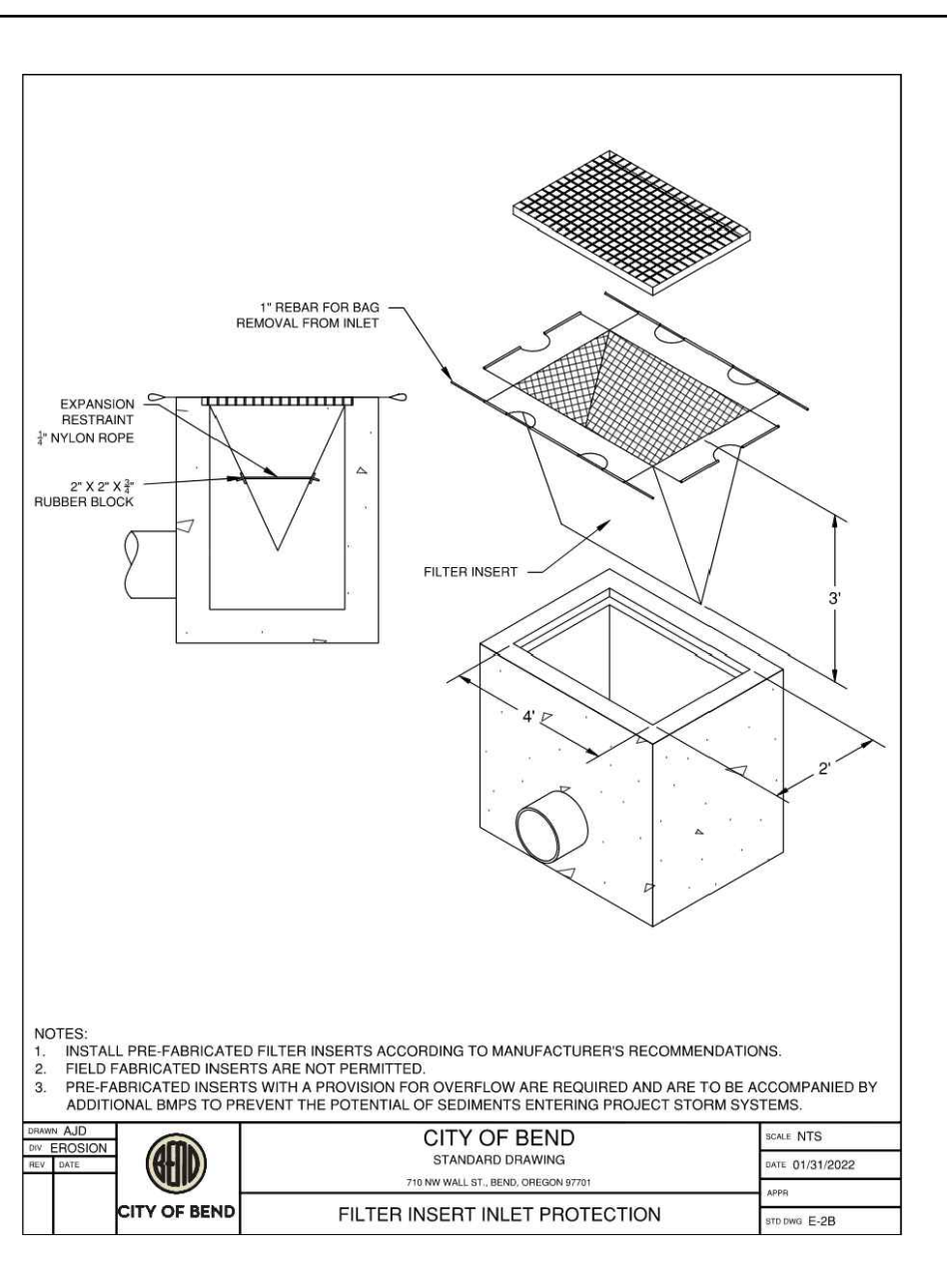
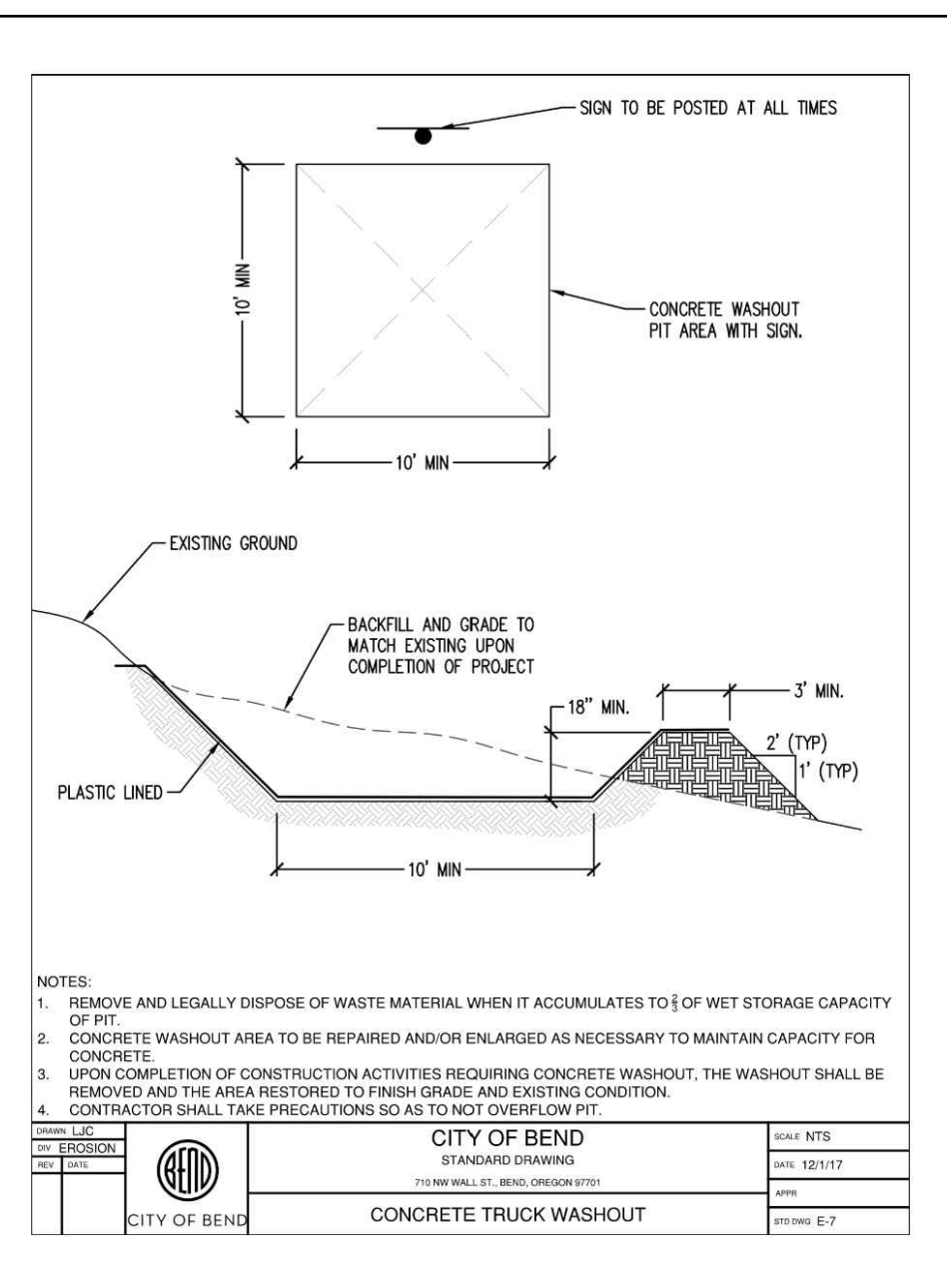
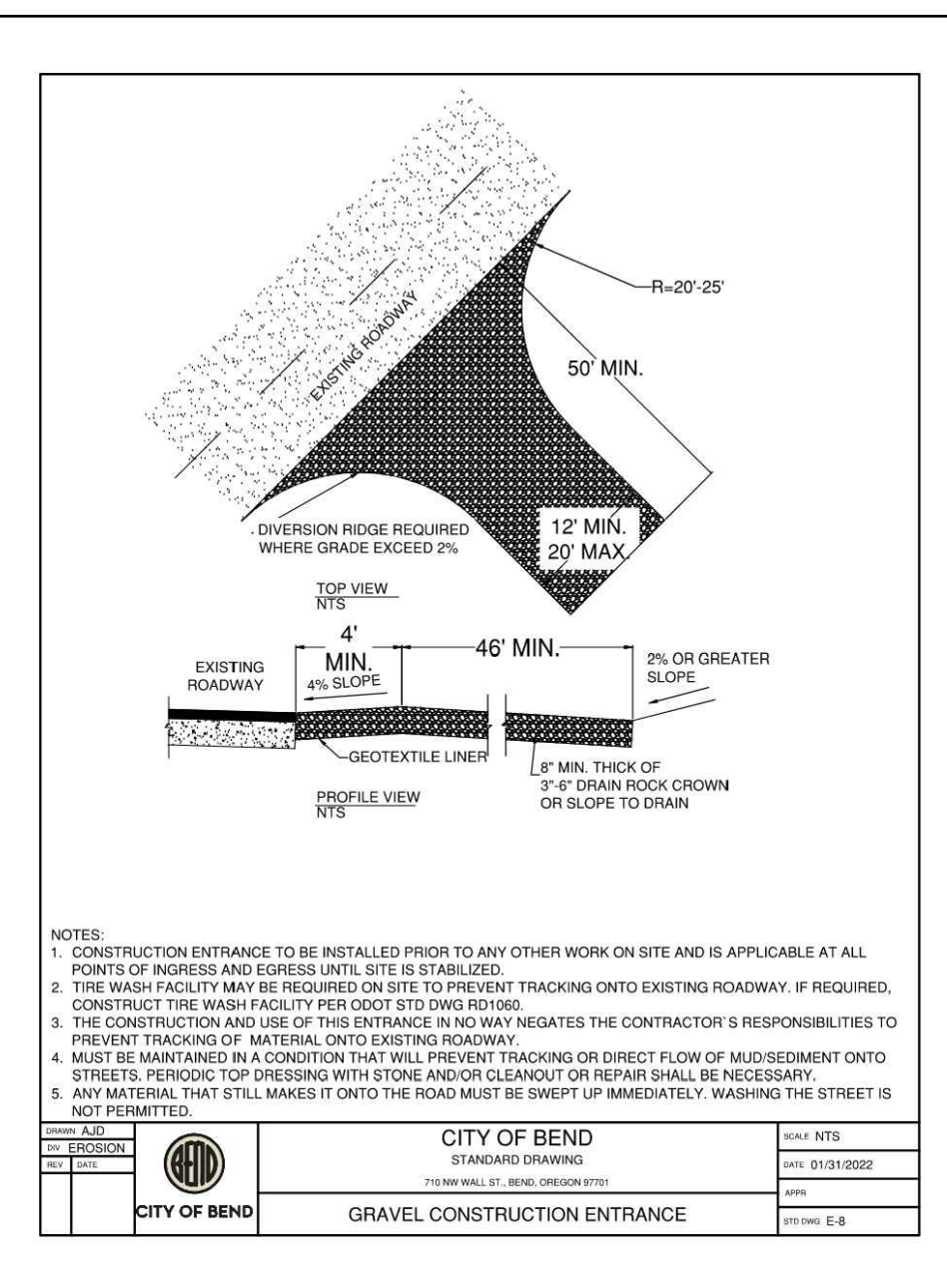
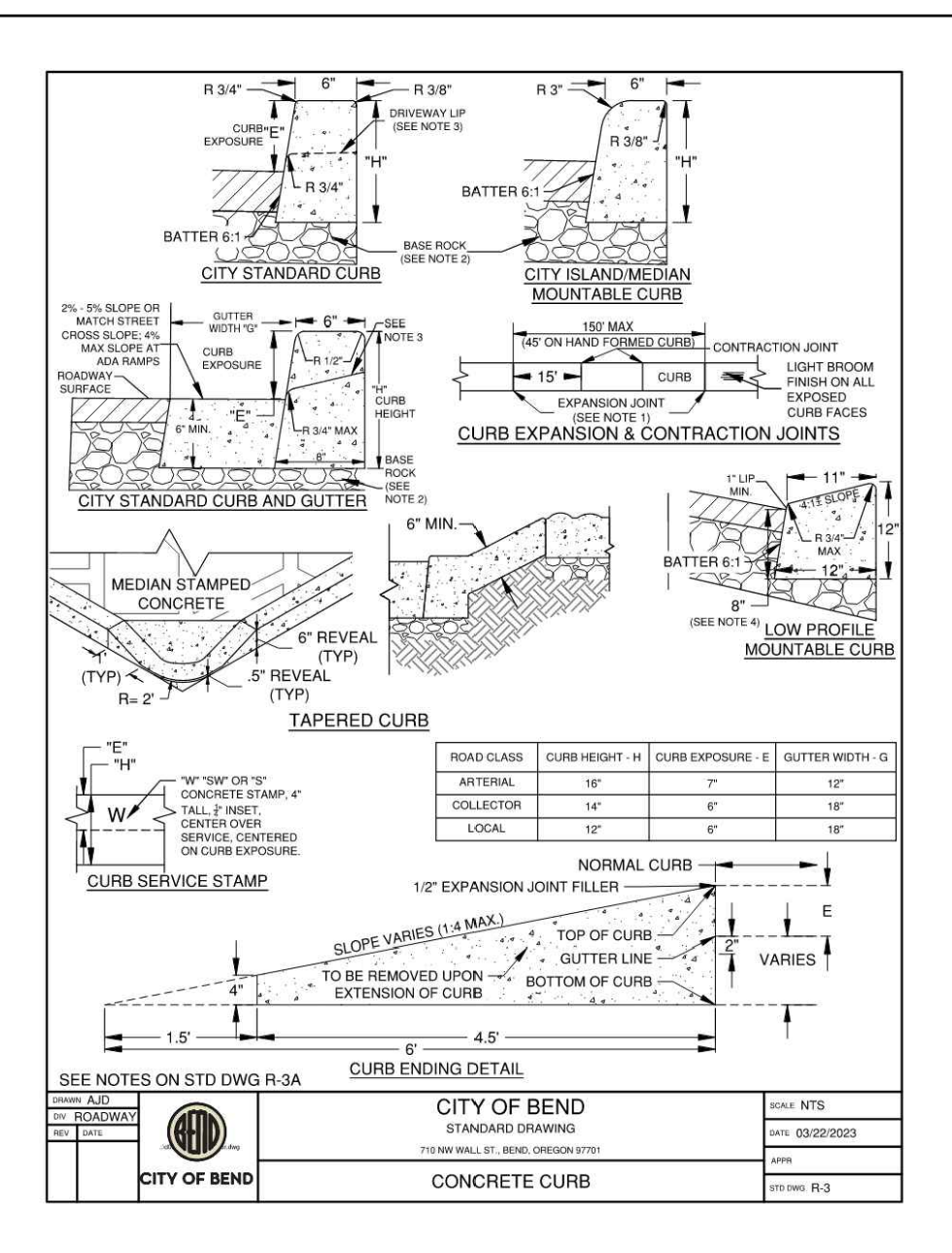
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SCALE: VARIES
FILE: SAC-SCV-1689D

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Bend, Oregon 97702
541-365-4772

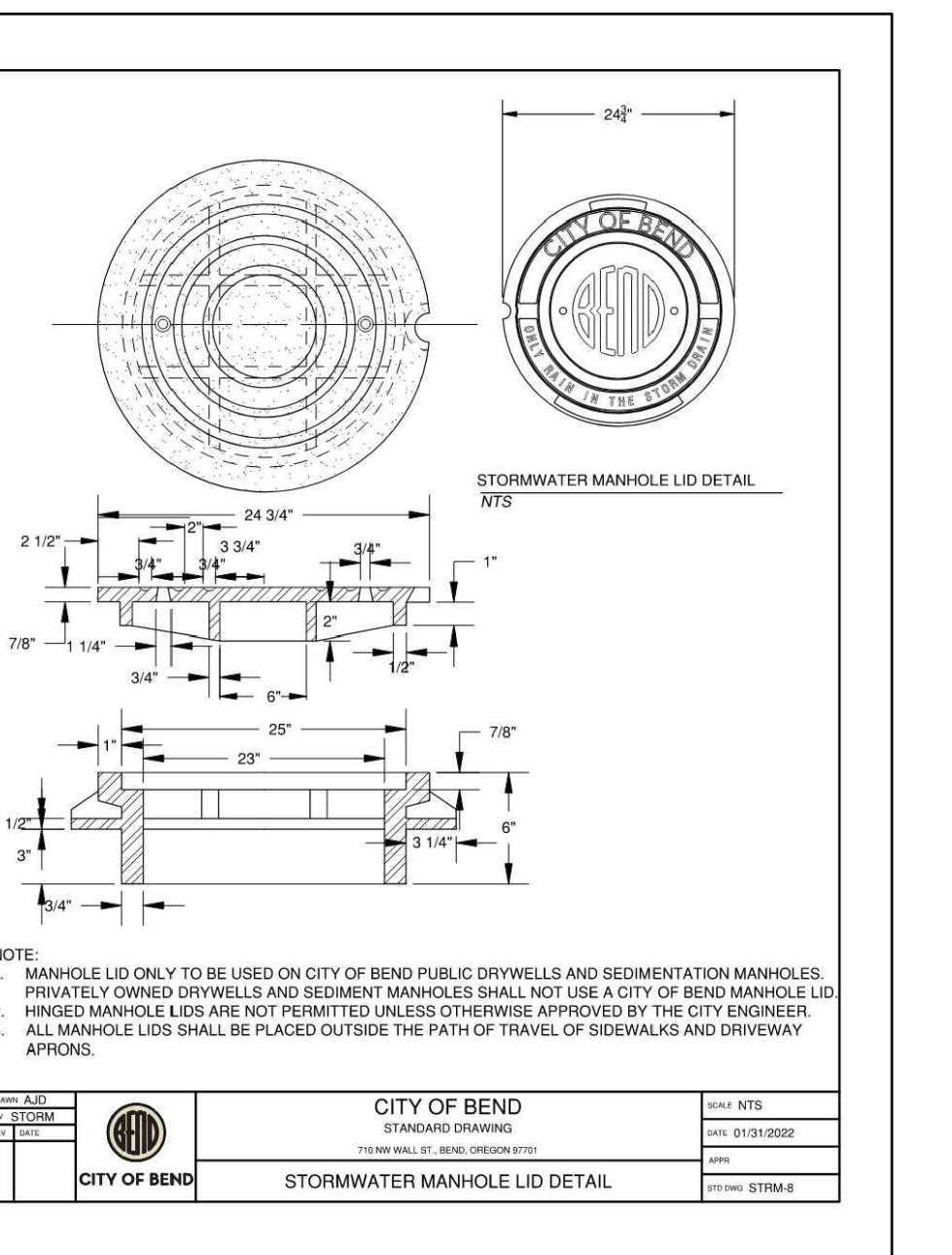
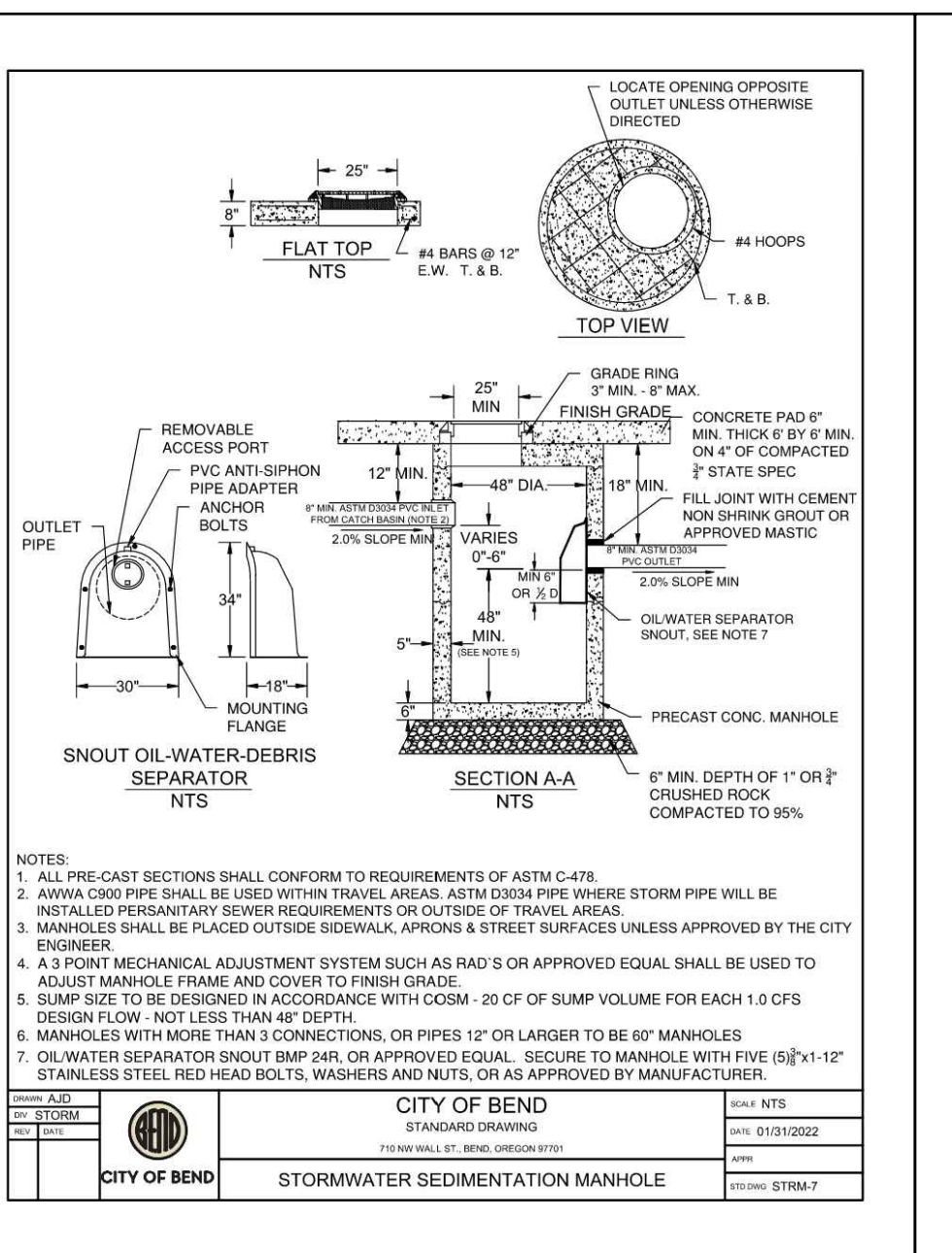
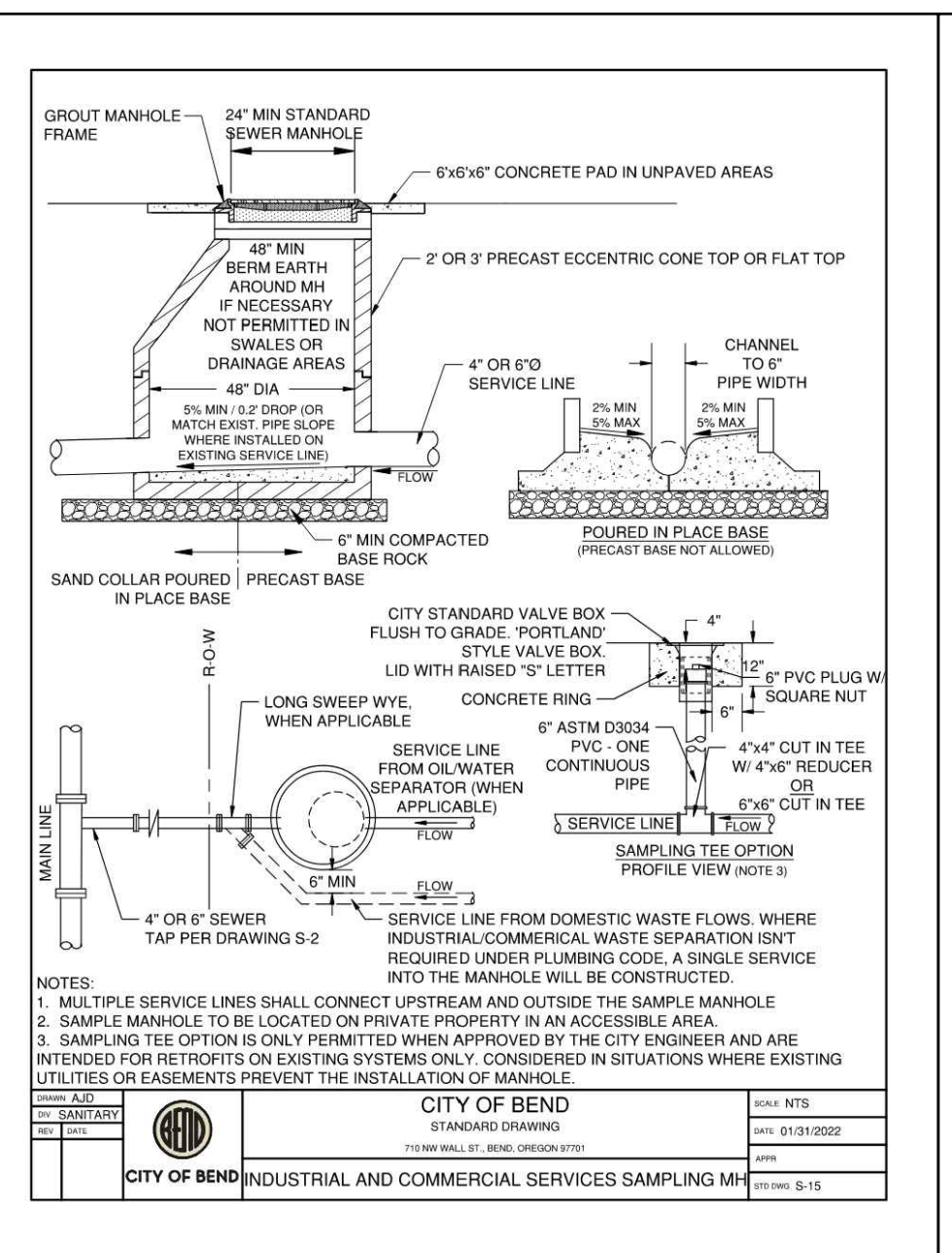
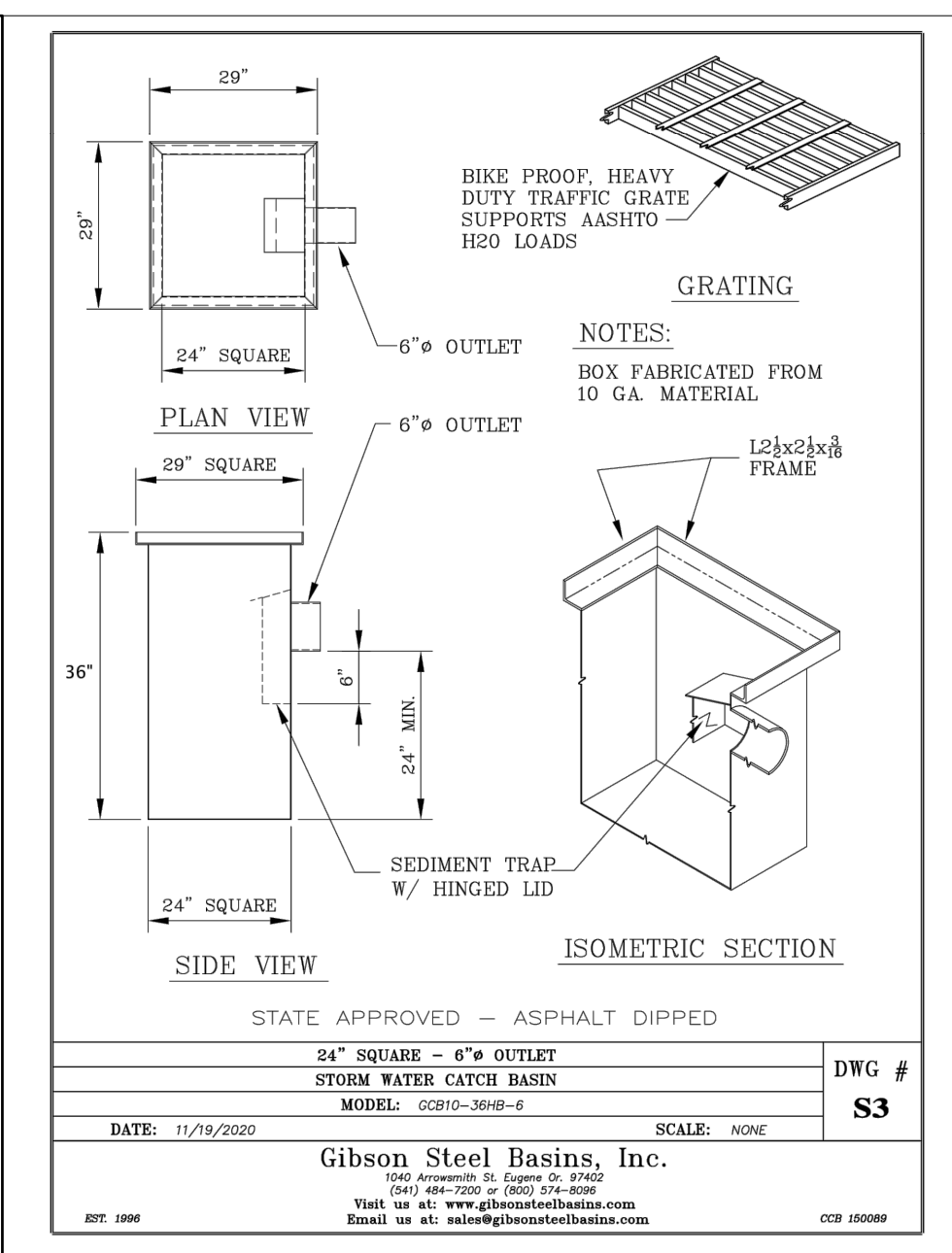
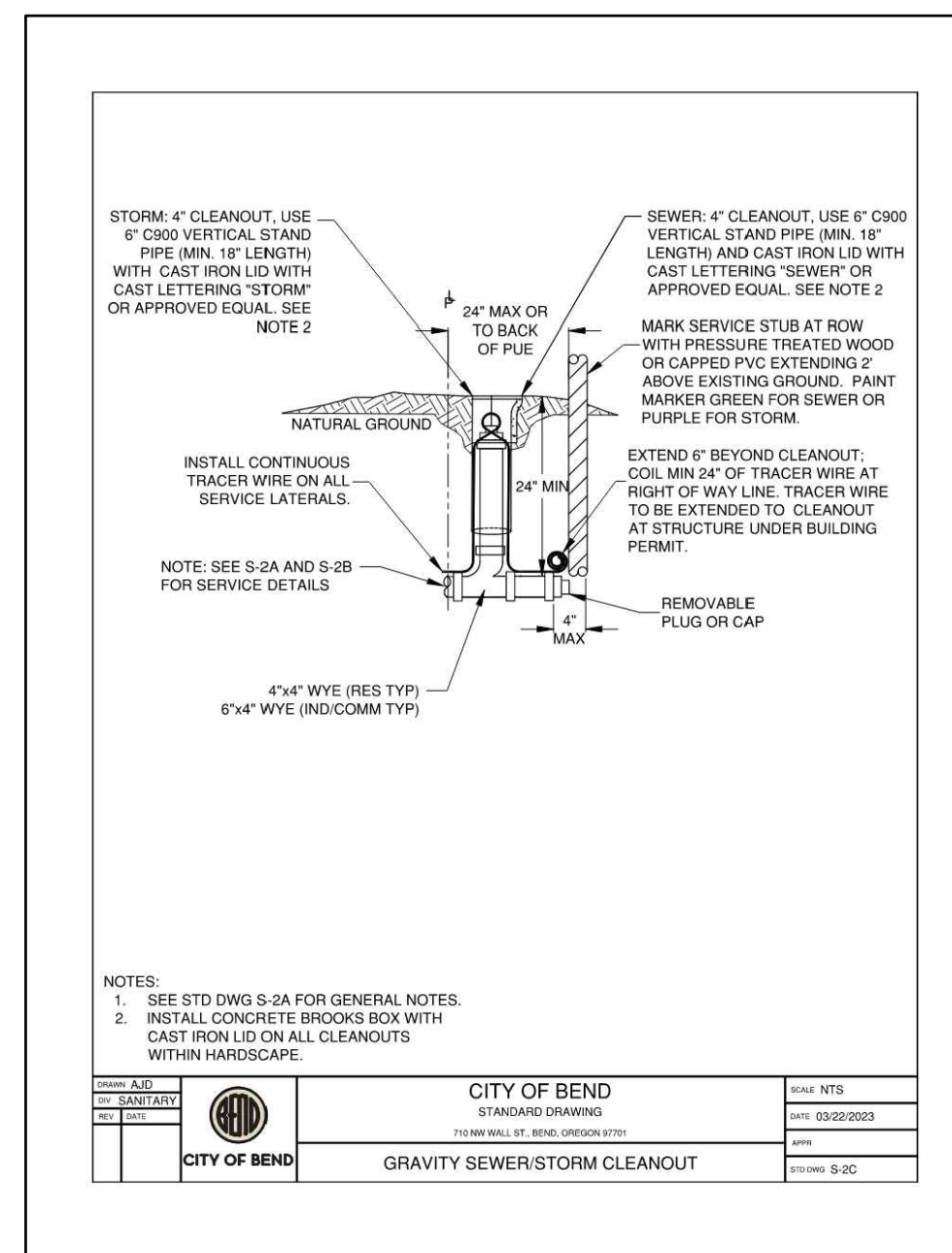
DATE: 7/15/2024

VERIFY SCALES
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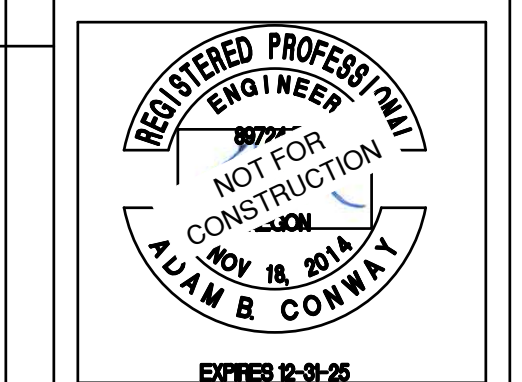
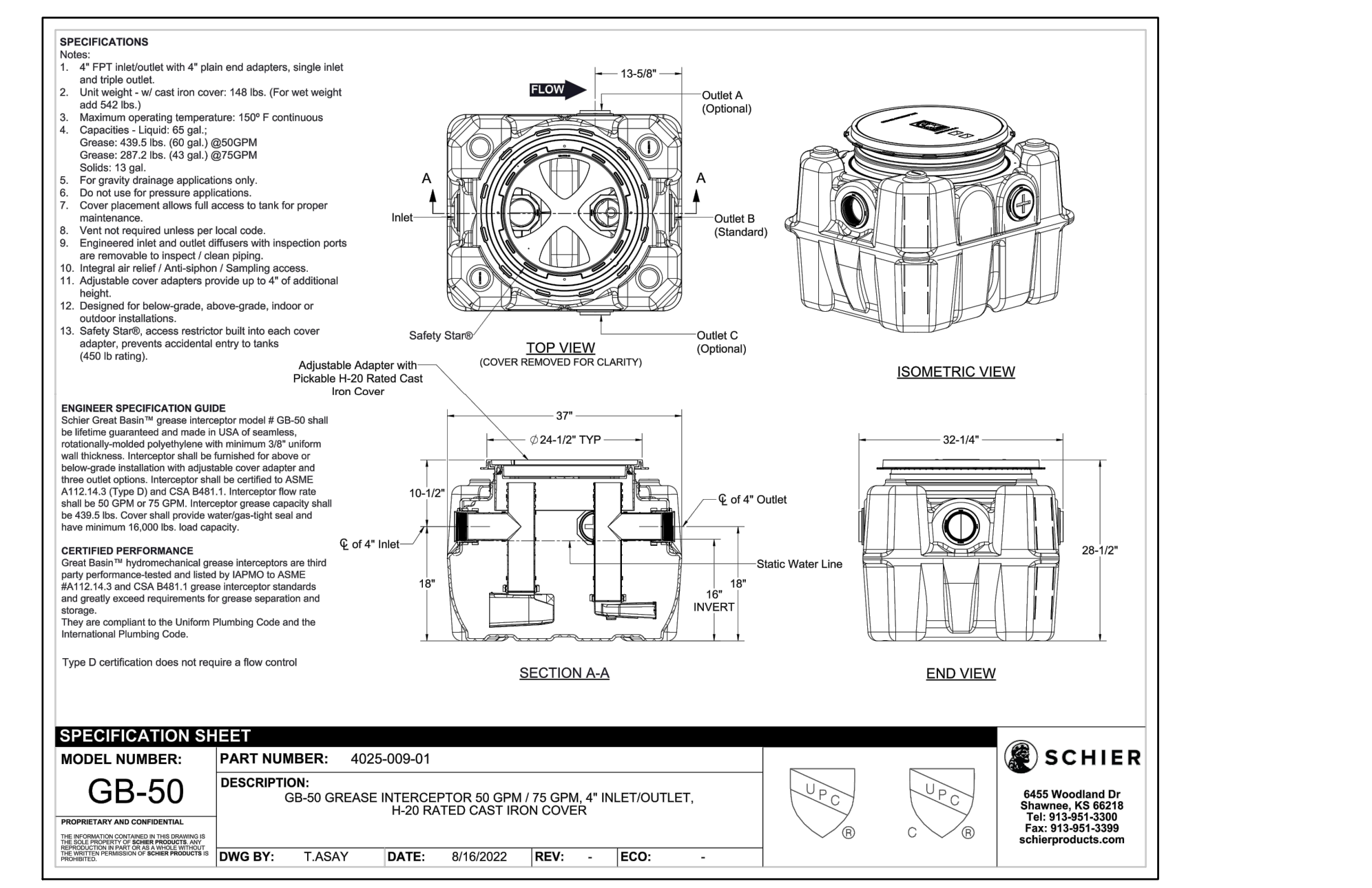
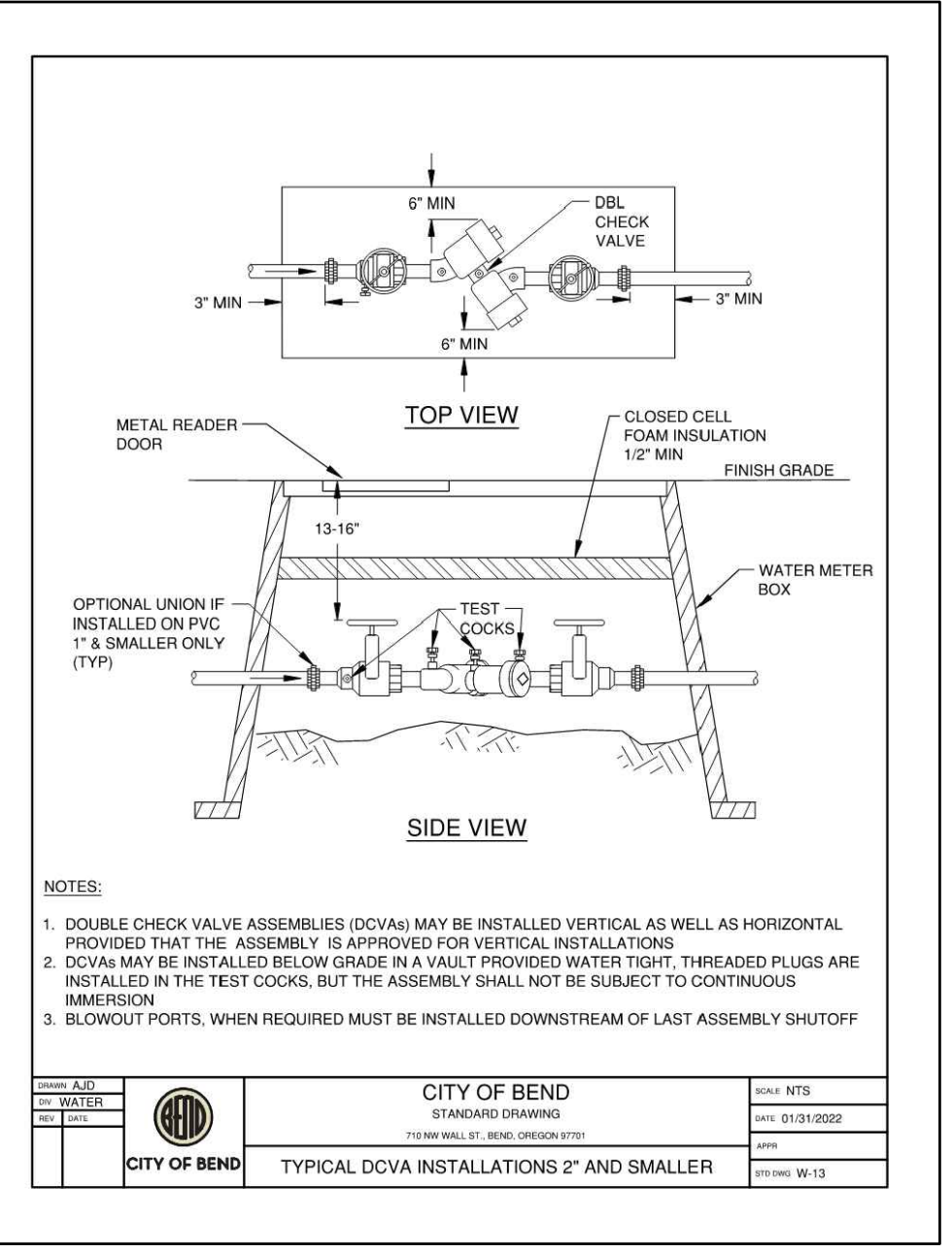
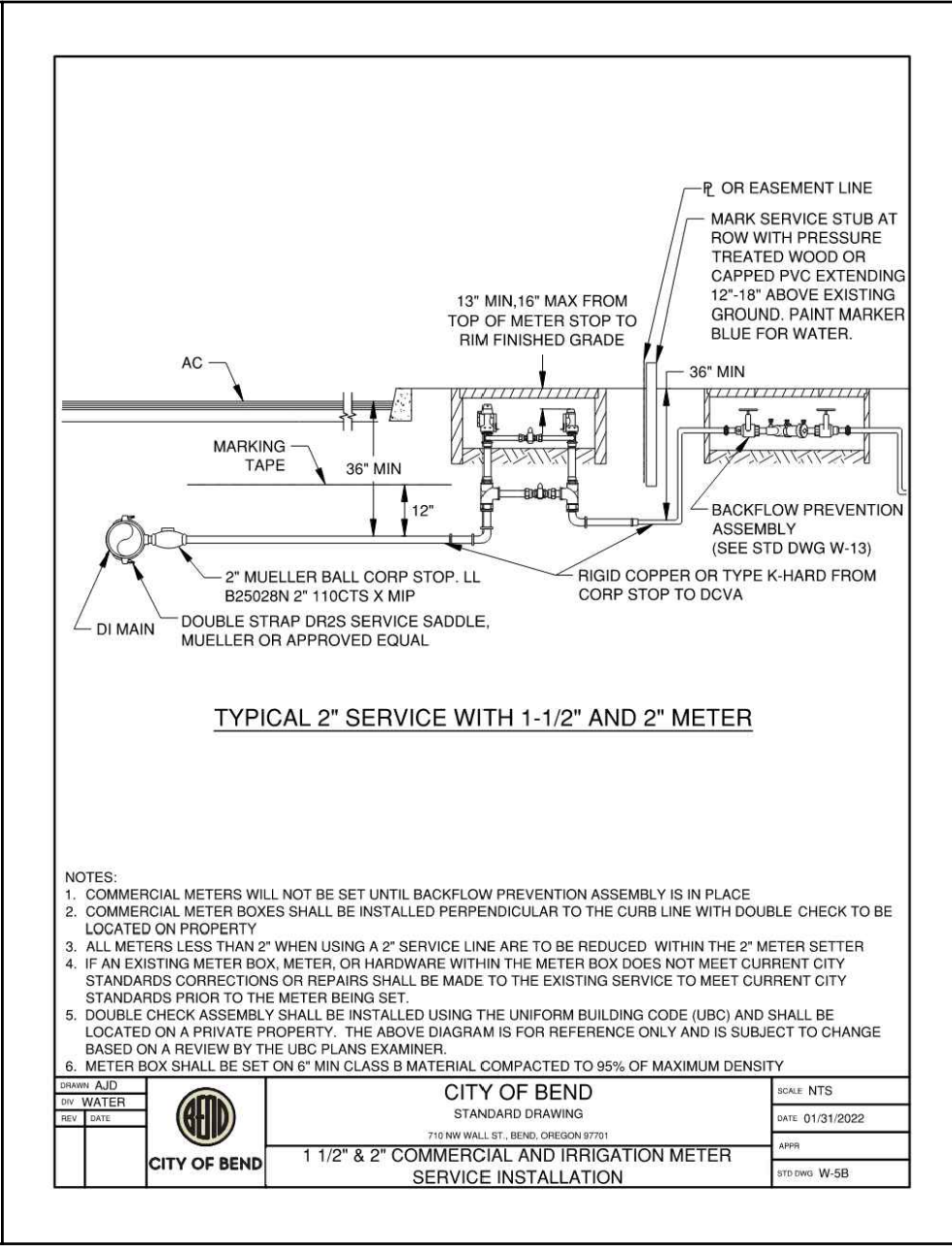
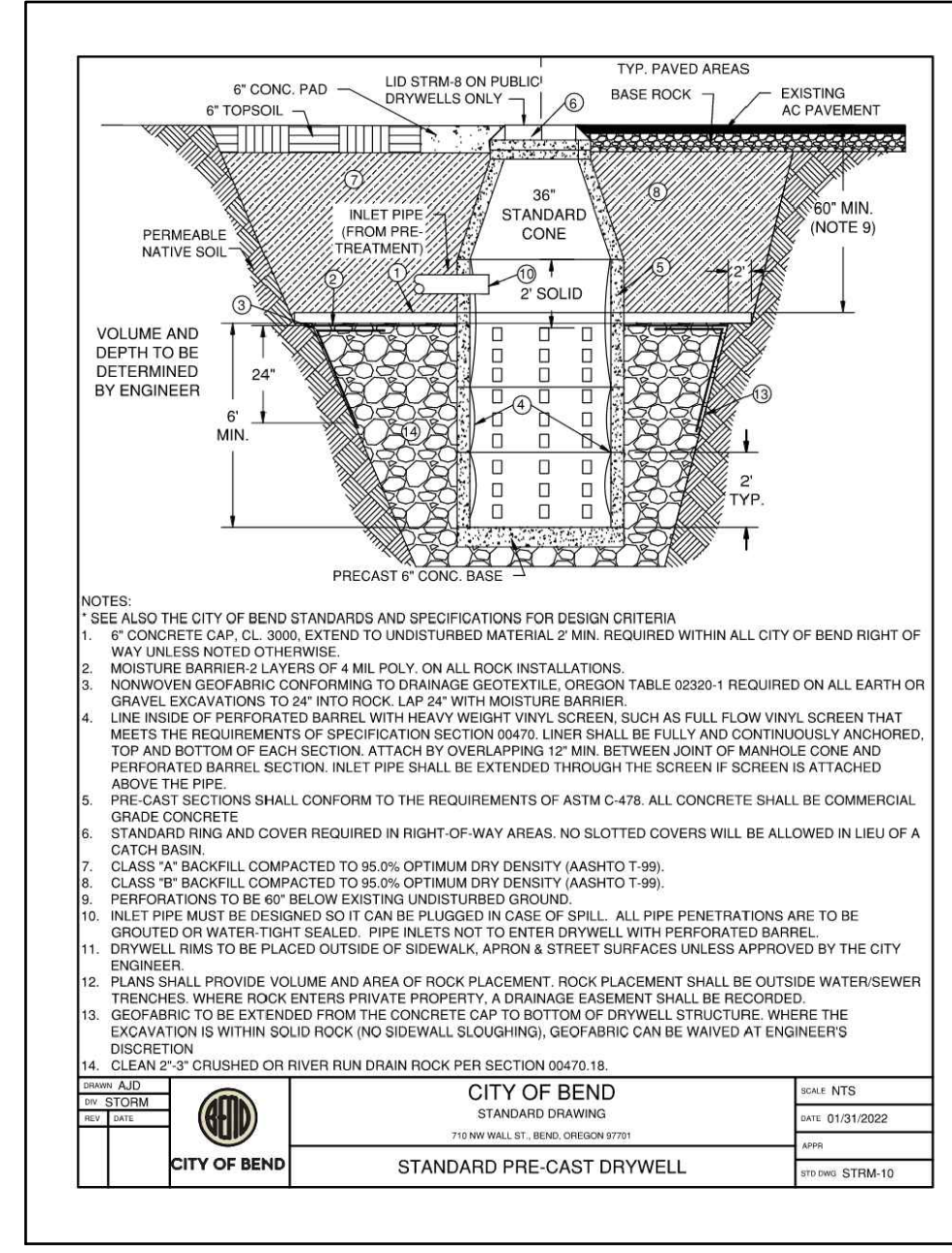
G3.0



A



B



**OSU CASCADES
LITTLE KITS
STANDARD DETAILS**

DESCHUTES COUNTY, OREGON



REVISIONS:

DOWL

963 SW Simpson #200
Bend, Oregon 97702
541-385-4772

WWW.DOWL.COM

DESIGNED BY: AC
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FILE: SACS.CV-1-1899

DATE: 7/15/2024

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SHEET: **G4.0**

C

D

DEMOLITION NOTES:

1. FULL WIDTH SAW CUT PER COB STD. DWG. R-10.
2. REMOVE EXISTING TREE.
3. EXISTING TREE CLUSTER TO BE REMOVED SEE GENERAL NOTE 1.
4. REMOVE EXISTING FENCE.
5. SAWCUT AND REMOVE EXISTING CONCRETE.
6. SAWCUT AND REMOVE EXISTING CURB AND ASPHALT.
7. PROTECT EXISTING UTILITIES IN PLACE.
8. UTILITY RISER PIPE. CONTRACTOR TO ADJUST TO FINISHED GRADE.

EROSION CONTROL NOTES

1. INSTALL INTLET PROTECTION PER COB STD DWG E-2B.
2. INSTALL GRAVEL CONSTRUCTION ENTRANCE PER COB STD DWG E-8. LENGTH 50'. LOCATION(S) TO BE DETERMINED BY CONTRACTOR.
3. INSTALL CONCRETE WASHOUT PER COB STD DWG E-7. LOCATION TO BE DETERMINED BY CONTRACTOR.
4. INSTALL SEDIMENT FENCE PER COB STD DWG E-1. SEDIMENT FENCE SHALL BE INSTALLED WHERE NECESSARY ALONG SITE PERIMETER ON DOWN GRADIENT SIDES OF DISTURBED AREAS TO MAINTAIN SEDIMENT ONSITE.
5. INSTALL TREE PROTECTION FENCING PER COB STD DWG E-1

GENERAL NOTES:

1. ALL EFFORTS SHALL BE PURSUED TO PRESERVE EXISTING SIGNIFICANT TREES WHERE PRACTICAL AND UPON EVALUATION OF TREE HEALTH PRIOR TO CONSTRUCTION, RISK TO GENERAL SAFETY OF THE PUBLIC, AND LASTLY IMPACT DUE TO CONSTRUCTION OF PROPOSED IMPROVEMENTS.

LEGEND

- EXISTING CURB
- EXISTING SIDEWALK
- EDGE OF PAVEMENT
- EASEMENT LINE
- EXISTING FENCE
- EXISTING GAS LINE
- EXISTING WATER LINE
- EXISTING STORM LINE
- EXISTING SEWER LINE
- EXISTING FIBER OPTIC LINE
- EXISTING ELECTRIC LINE
- EXISTING WATER VALVE
- EXISTING IRRIGATION BOX
- EXISTING WATER METER
- EXISTING HYDRANT
- EXISTING CLEANOUT
- EXISTING ELECTRIC BOX
- EXISTING COMM STUB
- EXISTING TELEPHONE PEDESTAL
- EXISTING CATCH BASIN
- EXISTING SIGN
- EXISTING SEWER MANHOLE
- EXISTING PINE - TO BE REMOVED



1 DEMOLITION PLAN
SCALE: H: 1"=20'



ATTENTION: OREGON LAW REQUIRES YOU TO FOLLOW RULES ADOPTED BY THE OREGON UTILITY NOTIFICATION CENTER. THOSE RULES ARE SET FORTH IN OAR 952-001-0010 THROUGH OAR 952-001-0090. YOU MAY OBTAIN COPIES OF THE RULES BY CALLING THE CENTER. (NOTE: THE TELEPHONE NUMBER FOR THE OREGON UTILITY NOTIFICATION CENTER IS 1-800-332-2344 or 811).

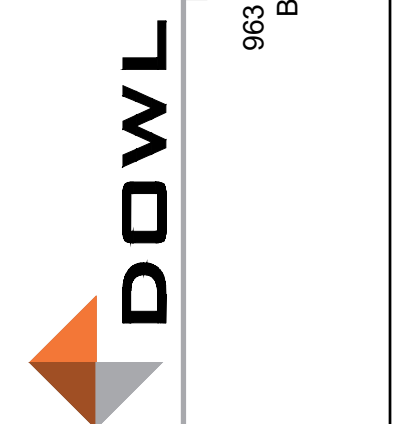


**OSU CASCADES
LITTLE KITS
EXISTING CONDITIONS, EROSION CONTROL,
& DEMOLITION PLAN**
DESCHUTES COUNTY, OREGON



REVISIONS:

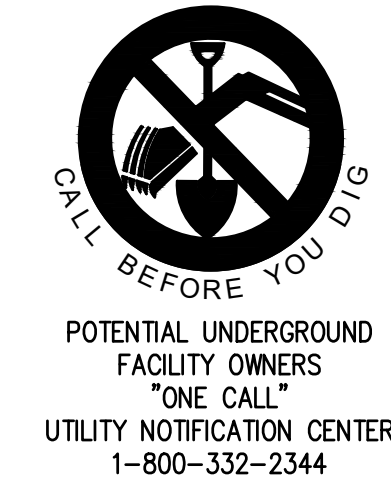
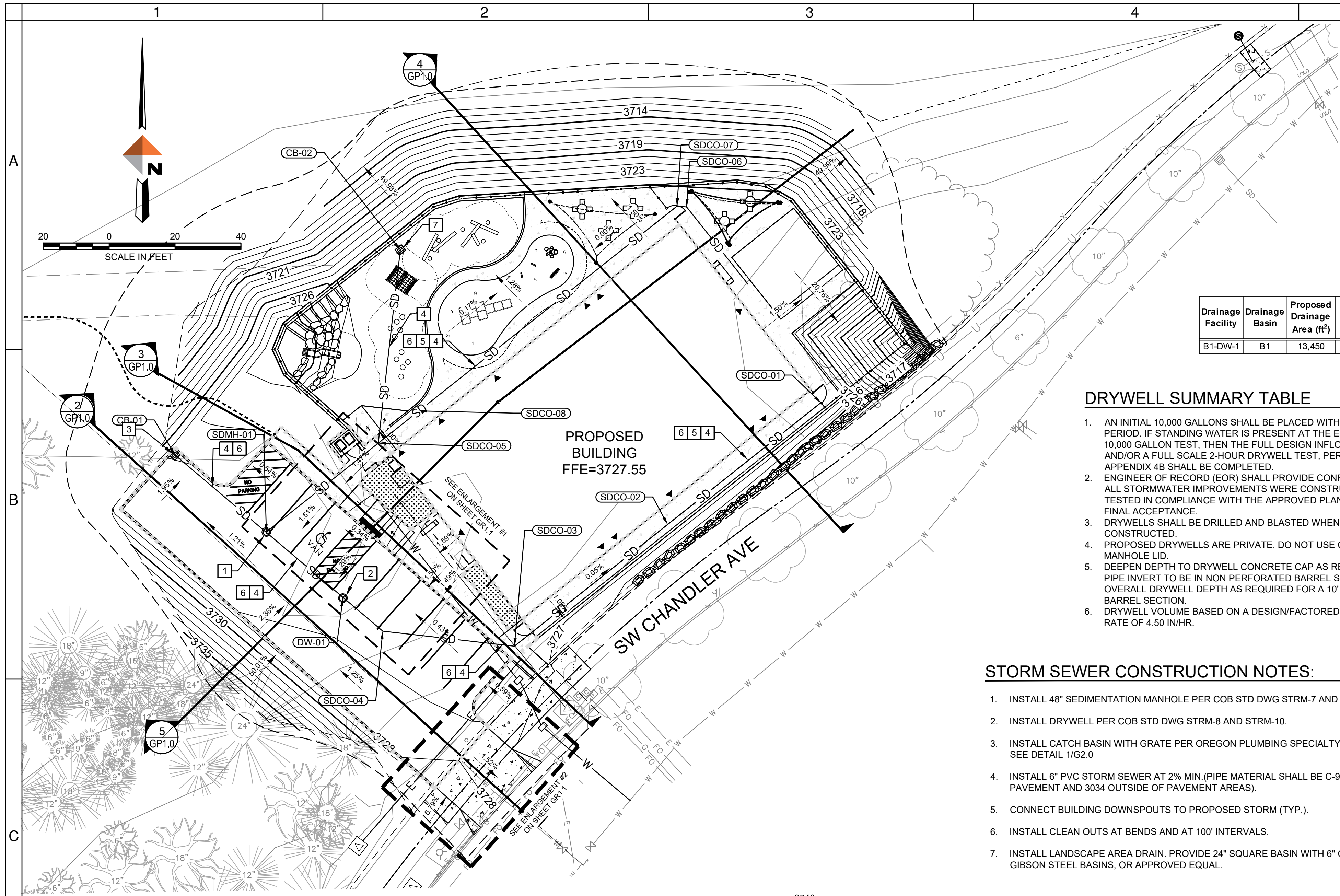
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FILE: SC-CS-EC-14880



DATE: 7/15/2024

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SHEET:
EC1.0



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POTENTIAL UNDERGROUND
FACILITY OWNERS
"ONE CALL"
UTILITY NOTIFICATION CENTER
1-800-332-2344

Drainage Facility	Drainage Basin	Proposed Drainage Area (ft ²)	25yr/24hr Vol. (ft ³)	100yr/24hr Vol. (ft ³)	2yr/24hr Q (cfs)	2yr/24hr Vol. (ft ³)	Test Vol. (gal) ¹	Drainrock Sizing (cy)
B1-DW-1	B1	13,450	2,545	3,103	0.33	1,435	10,000	80

DRYWELL SUMMARY TABLE

- AN INITIAL 10,000 GALLONS SHALL BE PLACED WITHIN 1-HOUR PERIOD. IF STANDING WATER IS PRESENT AT THE END OF THE 10,000 GALLON TEST, THEN THE FULL DESIGN INFLOW VOLUME AND/OR A FULL SCALE 2-HOUR DRYWELL TEST, PER COSM APPENDIX 4B SHALL BE COMPLETED.
- ENGINEER OF RECORD (EOR) SHALL PROVIDE CONFIRMATION THAT ALL STORMWATER IMPROVEMENTS WERE CONSTRUCTED AND TESTED IN COMPLIANCE WITH THE APPROVED PLANS PRIOR TO FINAL ACCEPTANCE.
- DRYWELLS SHALL BE DRILLED AND BLASTED WHEN BEING CONSTRUCTED.
- PROPOSED DRYWELLS ARE PRIVATE. DO NOT USE CITY OF BEND MANHOLE LID.
- DEEPEN DEPTH TO DRYWELL CONCRETE CAP AS REQUIRED FOR PIPE INVERT TO BE IN NON PERFORATED BARREL SECTION. DEEPEN OVERALL DRYWELL DEPTH AS REQUIRED FOR A 10" PERFORATED BARREL SECTION.
- DRYWELL VOLUME BASED ON A DESIGN/FACTORED INFILTRATION RATE OF 4.50 IN/HR.

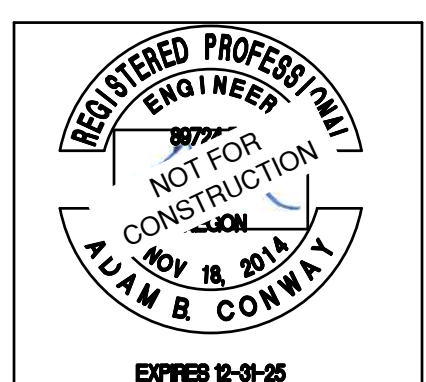
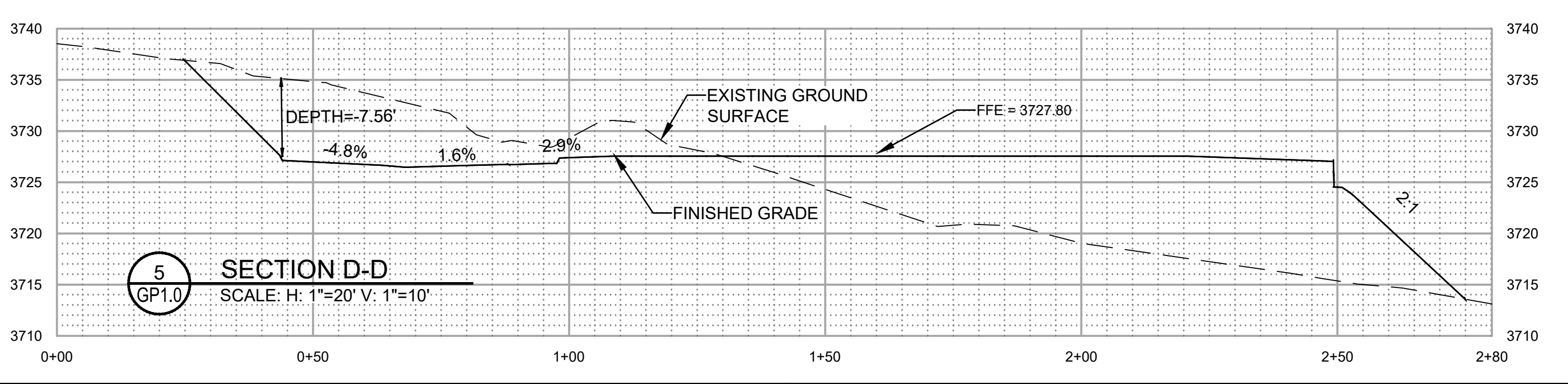
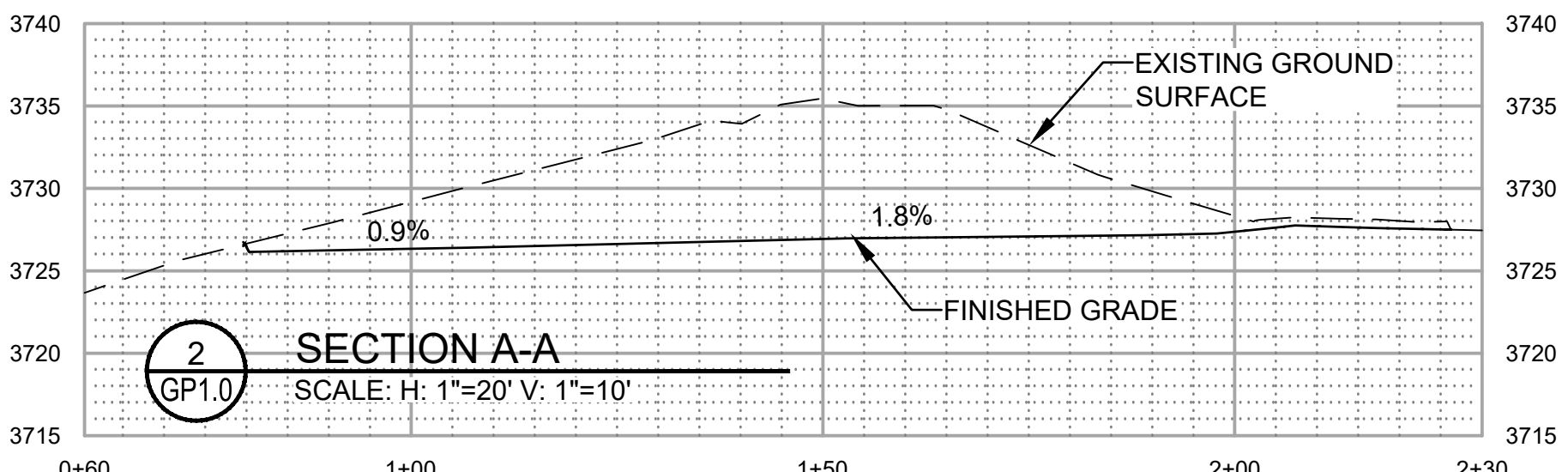
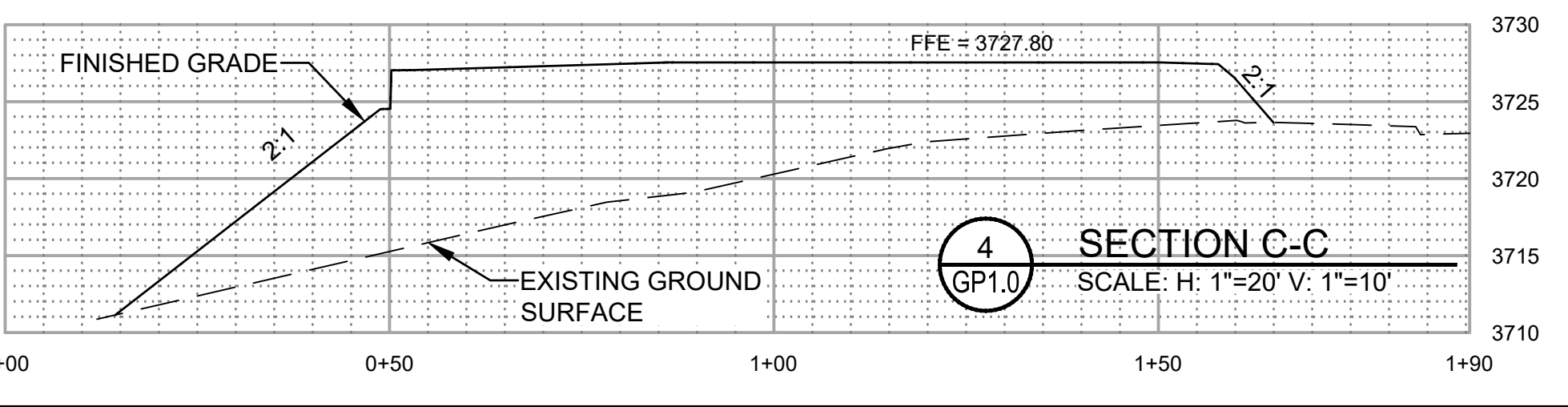
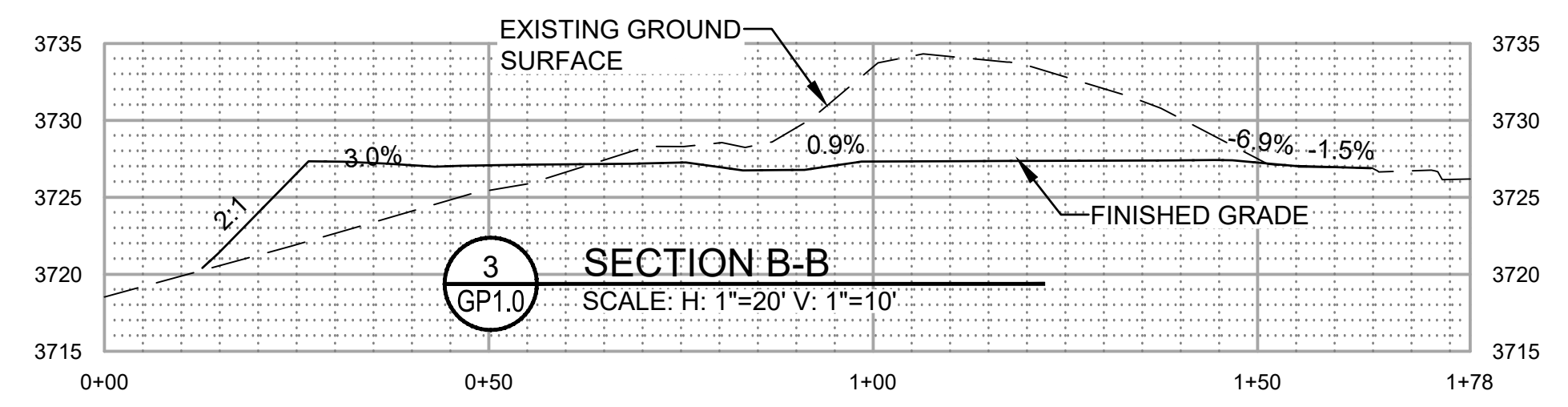
STORM SEWER CONSTRUCTION NOTES:

- INSTALL 48" SEDIMENTATION MANHOLE PER COB STD DWG STRM-7 AND STRM-8
- INSTALL DRYWELL PER COB STD DWG STRM-8 AND STRM-10.
- INSTALL CATCH BASIN WITH GRATE PER OREGON PLUMBING SPECIALTY CODE (OPSC). SEE DETAIL 1/G2.0
- INSTALL 6" PVC STORM SEWER AT 2% MIN. (PIPE MATERIAL SHALL BE C-900 WHEN UNDER PAVEMENT AND 3034 OUTSIDE OF PAVEMENT AREAS).
- CONNECT BUILDING DOWNSPOUTS TO PROPOSED STORM (TYP.).
- INSTALL CLEAN OUTS AT BENDS AND AT 100' INTERVALS.
- INSTALL LANDSCAPE AREA DRAIN. PROVIDE 24" SQUARE BASIN WITH 6" OUTLET BY GIBSON STEEL BASINS, OR APPROVED EQUAL.

STORM STRUCTURE TABLE

STRUCTURE NAME:	DETAILS:	PIPES:
CB-01 N: 379712.21 E: 3284893.09	INSTALL CATCH BASIN WITH GRATE PER OPSC SEE DETAIL. SEE DETAIL 1/G2.0 RIM = 3725.97 INV OUT (SE) = 3723.50	36 LF OF 6" PVC PIPE @ 2.00%
CB-02 N: 379774.43 E: 3284961.48	INSTALL CATCH BASIN WITH GRATE RIM = 3727.43 INV OUT (S) = 3724.50	59 LF OF 6" PVC PIPE @ 4.34%
DW-01 N: 379668.77 E: 3284944.07	INSTALL DRYWELL PER COB STD DWG STRM-8 AND STRM-10 RIM = 3726.52 INV IN (SE) = 3720.15 INV IN (NW) = 3718.98	
SDCO-01 N: 379728.06 E: 3285089.14	INSTALL CLEANOUT PER COB STD DWG S-2C RIM = 3727.48 INV OUT (SW) = 3723.63	59 LF OF 6" PVC PIPE @ 2.00%
SDCO-02 N: 379691.11 E: 3285042.63	CYLINDRICAL STRUCTURE SLAB TOP CIRCULAR FRAME RIM = 3727.48 INV IN (NE) = 3722.45 INV OUT (SW) = 3722.45	59 LF OF 6" PVC PIPE @ 2.00%
SDCO-03 N: 379654.16 E: 3284996.11	INSTALL 45° BEND AND CLEANOUT PER COB STD DWG S-2C RIM = 3727.43 INV IN (NE) = 3721.26 INV OUT (W) = 3721.26	40 LF OF 6" PVC PIPE @ 2.00%
SDCO-04 N: 379658.74 E: 3284956.17	INSTALL 22.5° & 11.25° BEND AND CLEANOUT PER COB STD DWG S-2C RIM = 3726.62 INV IN (E) = 3720.46 INV OUT (NW) = 3720.46	16 LF OF 6" PVC PIPE @ 2.00%
SDCO-05 N: 379715.79 E: 3284954.79	INSTALL WYE AND CLEANOUT PER COB STD DWG S-2C RIM = 3727.49 INV IN (NE) = 3722.03 INV IN (N) = 3722.03 INV OUT (SW) = 3722.03	43 LF OF 6" PVC PIPE @ 2.00%
SDCO-06 N: 379787.49 E: 3285048.39	INSTALL 45° BEND RIM = 3725.14 INV IN (W) = 3724.41 INV OUT (SE) = 3724.41	30 LF OF 6" PVC PIPE @ -2.00%
SDCO-07 N: 379787.73 E: 3285045.47	INSTALL 45° BEND AND CLEANOUT PER COB STD DWG S-2C RIM = 3724.89 INV OUT (E) = 3724.35 INV OUT (SW) = 3724.35	3 LF OF 6" PVC PIPE @ -2.00% 100 LF OF 6" PVC PIPE @ 2.00%
SDCO-08 N: 379725.58 E: 3284967.13	INSTALL CLEANOUT PER COB STD DWG S-2C RIM = 3724.99 INV IN (NE) = 3722.35 INV OUT (SW) = 3722.35	16 LF OF 6" PVC PIPE @ 2.00%
SDMH-01 N: 379688.84 E: 3284920.81	INSTALL SED MANHOLE PER COB STD DWG STRM-7 RIM = 3726.31 INV IN (NE) = 3721.16 INV IN (NW) = 3722.84 INV OUT (SE) = 3719.55	31 LF OF 8" PVC PIPE @ 2.00%

1 GRADING & DRAINAGE PLAN GP1.0 SCALE: 1"=20'



OSU CASCADES
LITTLE KITS
GRADING AND DRAINAGE PLAN
DESCHUTES COUNTY, OREGON



REVISIONS:

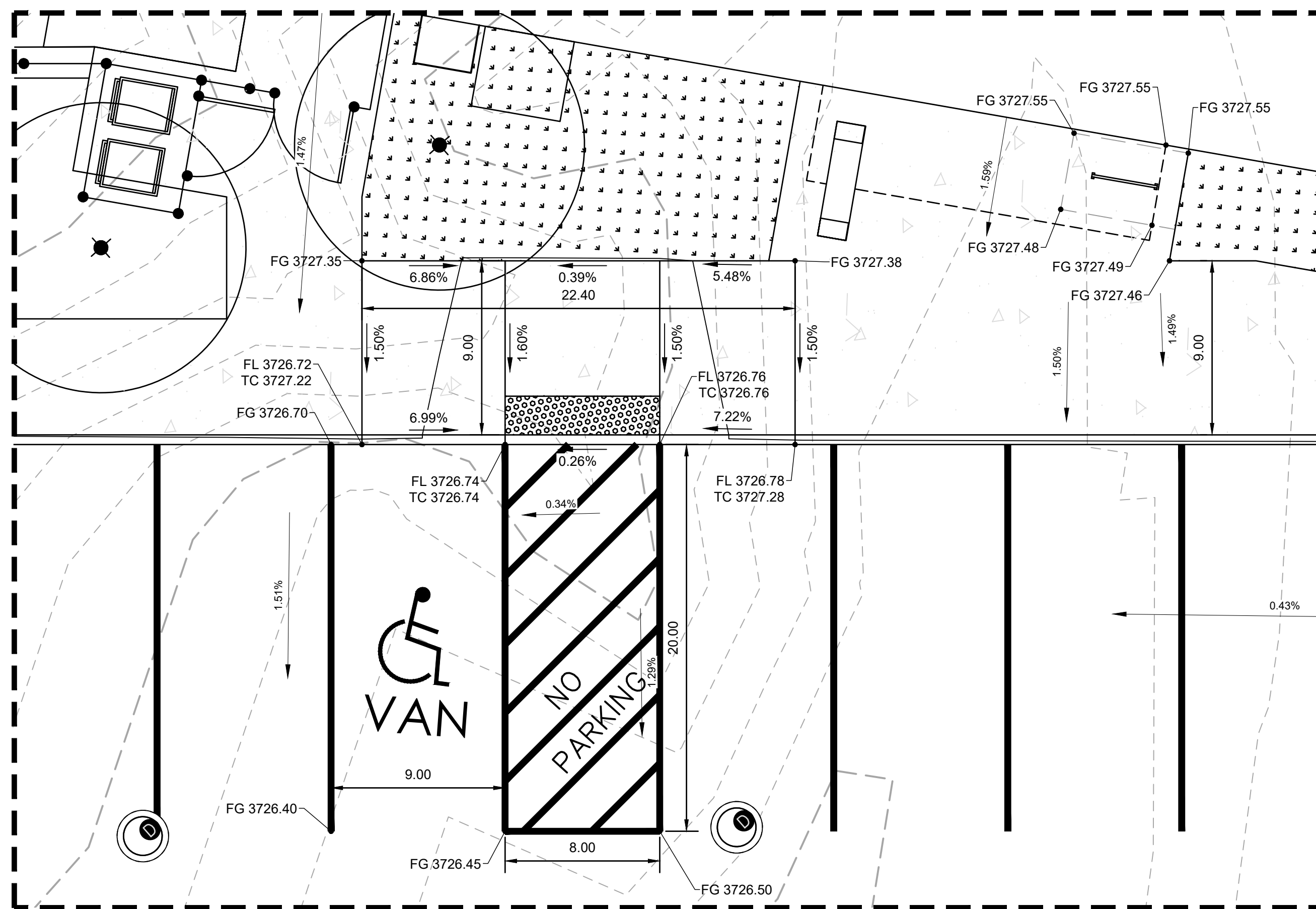
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Bend, Oregon 97702
Bend: 541-365-4772

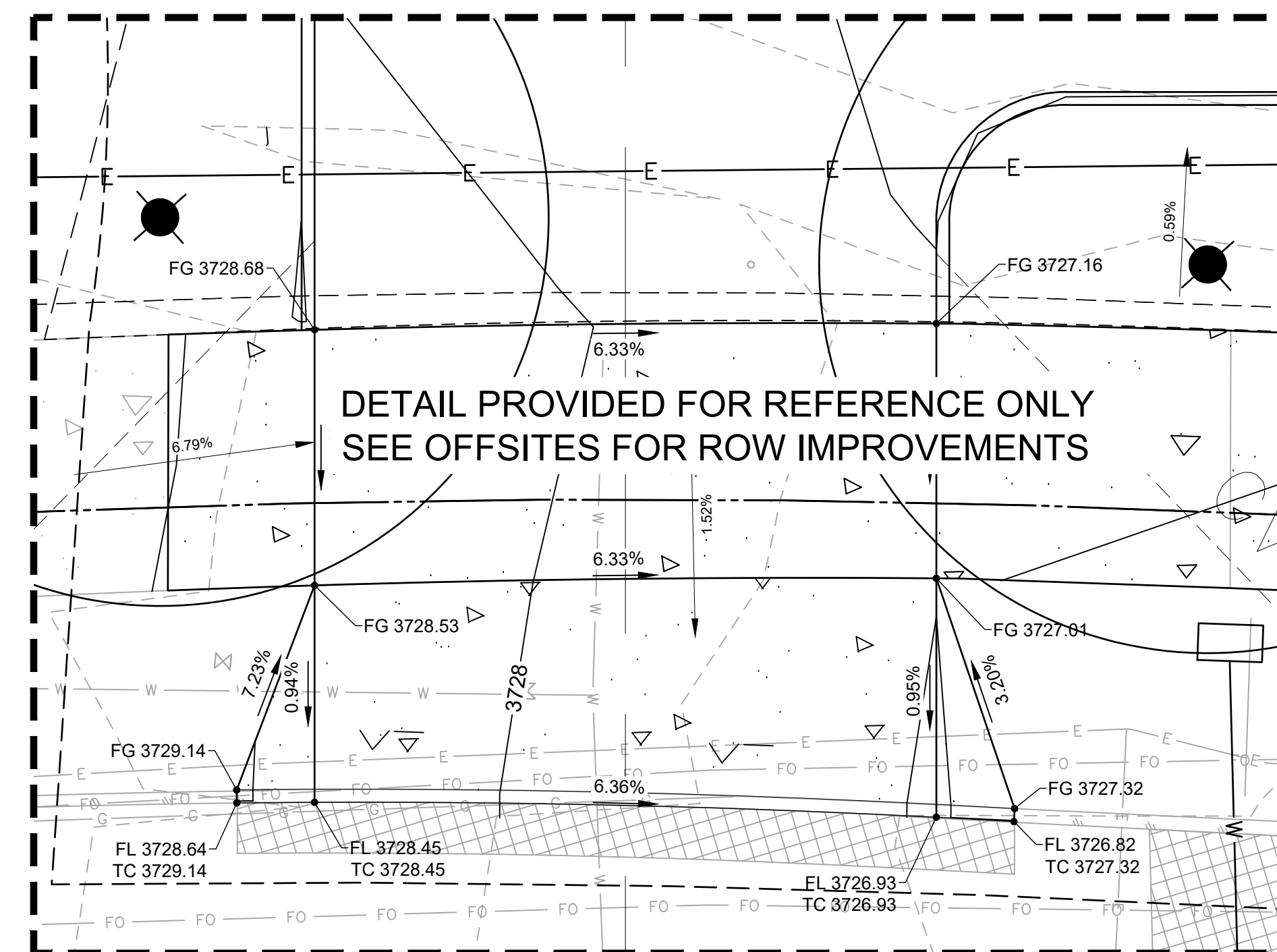
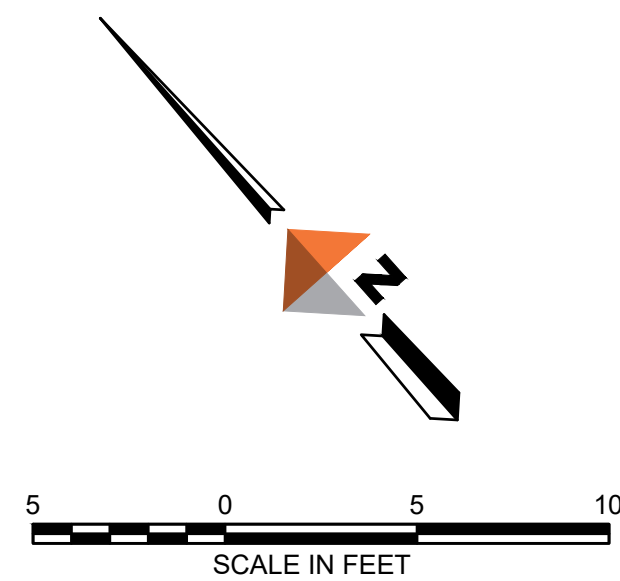
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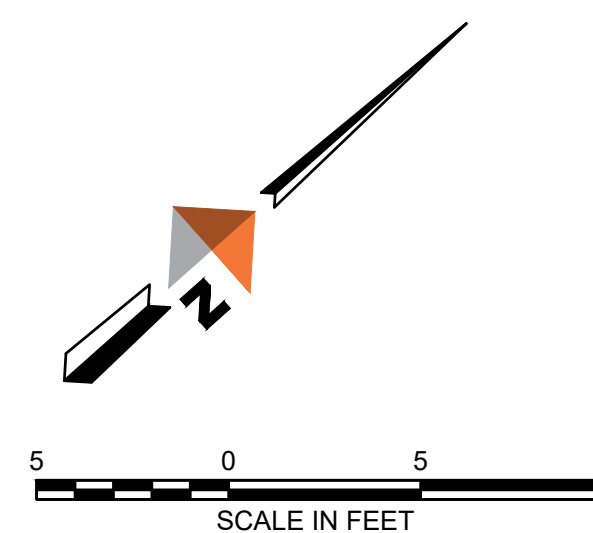


1 GRADING ENLARGEMENT
SCALE: 1"=5'



DETAIL PROVIDED FOR REFERENCE ONLY
SEE OFFSITES FOR ROW IMPROVEMENTS

2 GRADING ENLARGEMENT
SCALE: 1"=5'



OSU CASCADES
LITTLE KITS
GRADING DETAILS
DESCHUTES COUNTY, OREGON



REVISIONS:

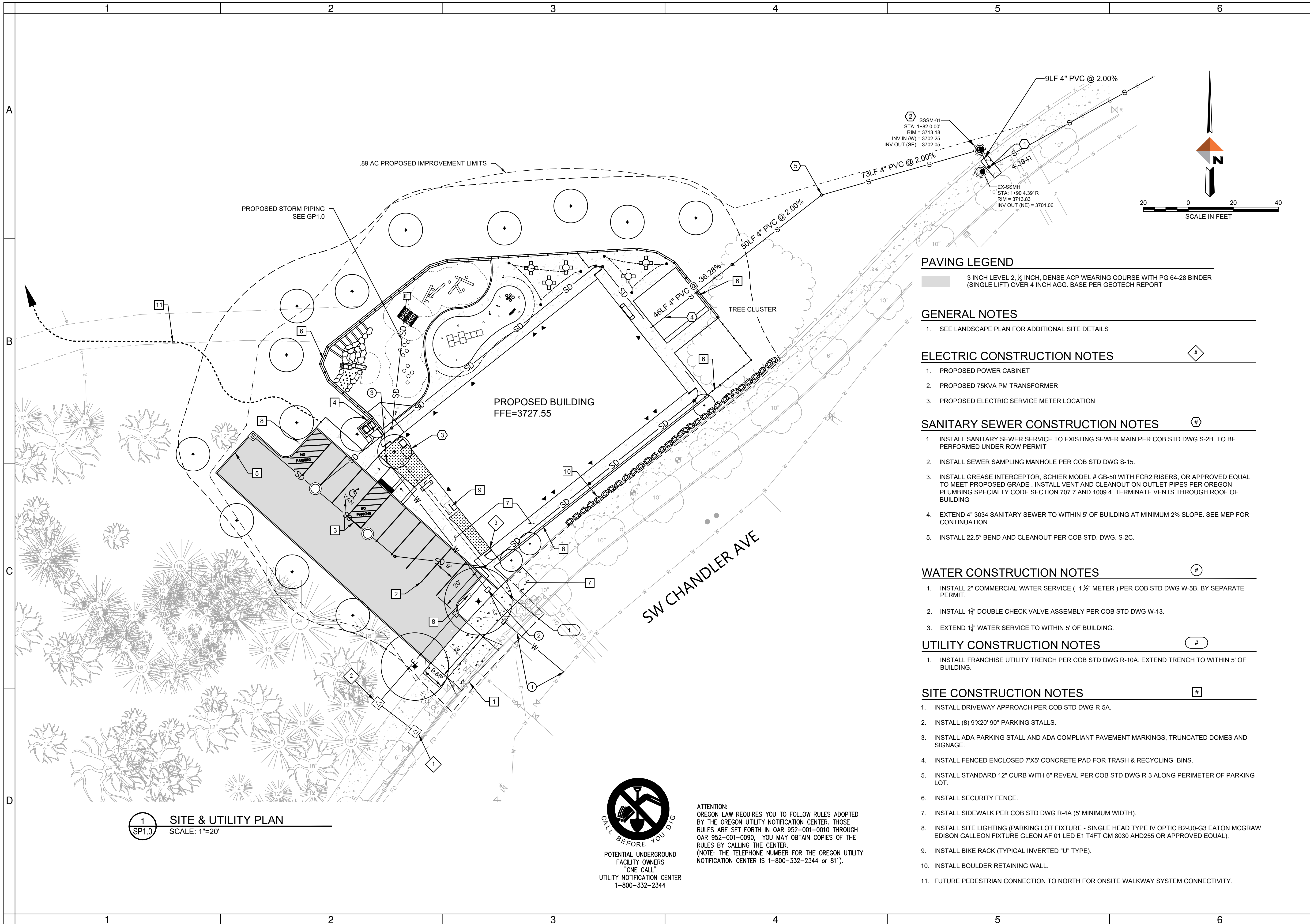
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DATE: 7/15/2024

963 SW Simpson, #200
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Bend, 541-385-4772

VERIFY SCALES
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SHEET:
GR1.1



1 SITE & UTILITY PLAN
SCALE: 1"=20'



POTENTIAL UNDERGROUND FACILITY OWNERS
"ONE CALL"
UTILITY NOTIFICATION CENTER
1-800-332-2344

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PAVING LEGEND

3 INCH LEVEL 2, 1/2 INCH, DENSE ACP WEARING COURSE WITH PG 64-28 BINDER (SINGLE LIFT) OVER 4 INCH AGG. BASE PER GEOTECH REPORT

GENERAL NOTES

- SEE LANDSCAPE PLAN FOR ADDITIONAL SITE DETAILS

ELECTRIC CONSTRUCTION NOTES

- PROPOSED POWER CABINET
- PROPOSED 75KVA PM TRANSFORMER
- PROPOSED ELECTRIC SERVICE METER LOCATION

SANITARY SEWER CONSTRUCTION NOTES

- INSTALL SANITARY SEWER SERVICE TO EXISTING SEWER MAIN PER COB STD DWG S-2B. TO BE PERFORMED UNDER ROW PERMIT
- INSTALL SEWER SAMPLING MANHOLE PER COB STD DWG S-15.
- INSTALL GREASE INTERCEPTOR, SCHIER MODEL # GB-50 WITH FCR2 RISERS, OR APPROVED EQUAL TO MEET PROPOSED GRADE. INSTALL VENT AND CLEANOUT ON OUTLET PIPES PER OREGON PLUMBING SPECIALTY CODE SECTION 707.7 AND 1009.4. TERMINATE VENTS THROUGH ROOF OF BUILDING
- EXTEND 4" 3034 SANITARY SEWER TO WITHIN 5' OF BUILDING AT MINIMUM 2% SLOPE. SEE MEP FOR CONTINUATION.
- INSTALL 22.5" BEND AND CLEANOUT PER COB STD. DWG. S-2C.

WATER CONSTRUCTION NOTES

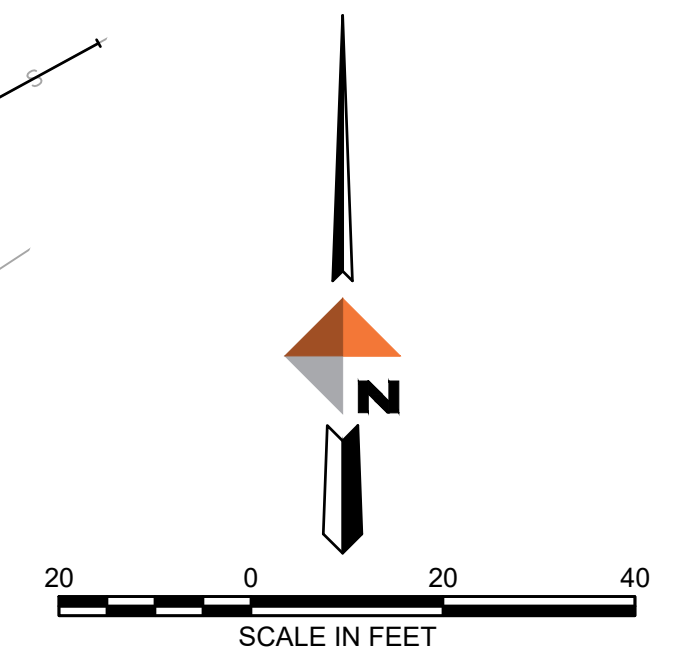
- INSTALL 2" COMMERCIAL WATER SERVICE (1 1/2" METER) PER COB STD DWG W-5B. BY SEPARATE PERMIT.
- INSTALL 1 1/2" DOUBLE CHECK VALVE ASSEMBLY PER COB STD DWG W-13.
- EXTEND 1 1/2" WATER SERVICE TO WITHIN 5' OF BUILDING.

UTILITY CONSTRUCTION NOTES

- INSTALL FRANCHISE UTILITY TRENCH PER COB STD DWG R-10A. EXTEND TRENCH TO WITHIN 5' OF BUILDING.

SITE CONSTRUCTION NOTES

- INSTALL DRIVEWAY APPROACH PER COB STD DWG R-5A.
- INSTALL (8) 9'X20' 90° PARKING STALLS.
- INSTALL ADA PARKING STALL AND ADA COMPLIANT PAVEMENT MARKINGS, TRUNCATED DOMES AND SIGNAGE.
- INSTALL FENCED ENCLOSED 7'X5' CONCRETE PAD FOR TRASH & RECYCLING BINS.
- INSTALL STANDARD 12" CURB WITH 6" REVEAL PER COB STD DWG R-3 ALONG PERIMETER OF PARKING LOT.
- INSTALL SECURITY FENCE.
- INSTALL SIDEWALK PER COB STD DWG R-4A (5' MINIMUM WIDTH).
- INSTALL SITE LIGHTING (PARKING LOT FIXTURE - SINGLE HEAD TYPE IV OPTIC B2-U0-G3 EATON MCGRAW EDISON GALLEON FIXTURE GLEON AF 01 LED E1 T4FT GM 8030 AHD255 OR APPROVED EQUAL).
- INSTALL BIKE RACK (TYPICAL INVERTED "U" TYPE).
- INSTALL BOULDER RETAINING WALL.
- FUTURE PEDESTRIAN CONNECTION TO NORTH FOR ONSITE WALKWAY SYSTEM CONNECTIVITY.



**OSU CASCADES
LITTLE KITS**
SITE & UTILITY PLAN
DESCHUTES COUNTY, OREGON



REVISIONS:

WWW.DOWL.COM
963 SW Simpson #200
Bend, Oregon 97702
Bend: 541-365-4772



DESIGNED BY: AC
DRAWN BY: RB
SCALE: VARIES
FILE: SC_CS_U114880
DATE: 7/15/2024

VERIFY SCALES
0 1"
BAR EQUALS ONE INCH
ON ORIGINAL DRAWING

SHEET:
SP1.0



VICINITY MAP
SCALE: 1" = 800'



OREGON UTILITY
NOTIFICATION CENTER
1-800-332-2344



OSU CASCADES LITTLE KITS CHILD CARE FACILITY

AUGUST 2024
COB PROJECT NO. PLSR20220845
CITY OF BEND, DESCHUTES COUNTY, OREGON

OWNER:
**OREGON STATE
UNIVERSITY-CASCADES**
1500 SW CHANDLER AVENUE
BEND, OREGON 97702

SCHEDULE OF IMPROVEMENTS:

CITY OF BEND:

102 SY	LOCAL STREET IMPROVEMENT
27 SY	PUBLIC ALLEY IMPROVEMENT
94 SF	CONCRETE SIDEWALK
116 SF	CONCRETE DRIVEWAY
19 LF	CITY STANDARD CURB, 12"
2 EA	6" GATE VALVE
18 LF	6" WATER FIRE SERVICE PIPING



**OSU CASCADES
LITTLE KITS
COVER SHEET**
DESCHUTES COUNTY, OREGON

SHEET INDEX

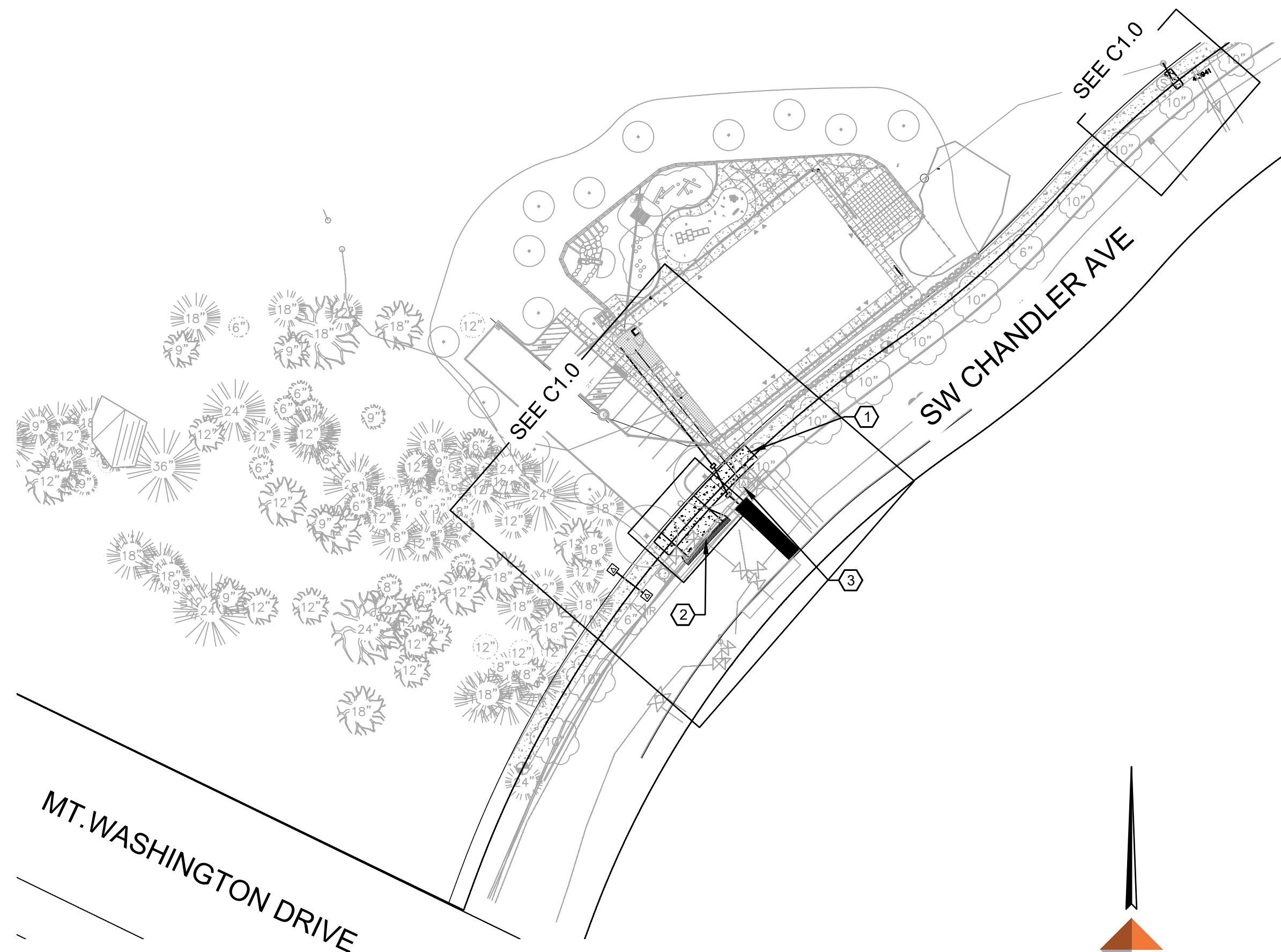
- G1.0 COVER SHEET
- G2.0 CONSTRUCTION NOTES
- G3.0 STANDARD DETAILS
- C1.0 SITE PLAN AND PROFILE
- C2.0 TRAFFIC CONTROL PLAN

DEMOLITION NOTES

1. SAWCUT, REMOVE AND DISPOSE OF EXISTING ±64 LF SIDEWALK.
2. SAWCUT, REMOVE AND DISPOSE OF EXISTING ±30.5 LF CURB.
3. PROTECT EXISTING ELECTRICAL EQUIPMENT IN PLACE.

EROSION CONTROL NOTES

1. EROSION CONTROL AND TREE PROTECTION SHALL BE IN ACCORDANCE WITH THE SITE IMPROVEMENT PERMIT ("SIMP": PRSIMP20240XXXX) TO BE CONSTRUCTED CONCURRENTLY WITH INFRASTRUCTURE. NO WORK SHALL BEGIN UNTIL PROVISIONS OF THE SIMP ARE IN PLACE AND SHALL BE MAINTAINED THROUGHOUT CONSTRUCTION.



1
G1.0 **SITE PLAN**
SCALE: 1"=50'



APPROVALS:

- CITY OF BEND ENGINEER:** _____
NOTE: SIGNATURE DOES NOT GRANT APPROVAL TO COMMENCE CONSTRUCTION.
- BEND FIRE DEPARTMENT:** _____
- PACIFIC POWER:** _____
- TDS:** _____
- CASCADE NATURAL GAS:** _____
- LUMEN:** _____

CONTROL POINT TABLE

POINT #	COCS NORTHING	COCS EASTING	DESCRIPTION
44	379696.72	3285078.54	SCRIBE X
45	379443.97	3284882.91	SCRIBE X
46	379596.50	3284961.24	SCRIBE X
47	379420.19	3284854.95	PK IN CONCRETE
48	379609.45	3285044.36	PK AND WASHER IN AC
805	379344.34	3284934.50	PK IN AC

PROJECT DATA

- APPLICANT/OWNER:**
LANDSCAPE ARCHITECT:
CAMERON MCCARTHY
160 EAST BROADWAY
EUGENE, OREGON 97401
JAY BATTLESON - JBATTLESON@CAMERONMCCARTHY.COM
- OWNER:**
OREGON STATE UNIVERSITY-CASCADES
1500 SW CHANDLER AVENUE
BEND, OREGON 97702
- PLANNER/ENGINEER:**
DOWL
963 SW SIMPSON AVE, SUITE 200
BEND, OREGON 97702
ADAM CONWAY - ACONWAY@DOWL.COM
- TRAFFIC ENGINEER:**
TRANSIGHT CONSULTING
61271 SPLENDOR LANE
BEND, OR 97702
JOE BESSMAN - JOE@TRANSIGHTCONSULTING.COM



REVISIONS:

DOWL
963 SW SIMPSON AVE, SUITE 200
BEND, OREGON 97702
541-385-4772

DESIGNED BY: AC
DRAWN BY: RB
SCALE: VARIES
FILE: SACS.CV.14889

DATE: 07/12/24

VERIFY SCALES
0 1"
BAR EQUALS ONE INCH
ON ORIGINAL DRAWING

SHEET:
G1.0



OREGON UTILITY
NOTIFICATION CENTER
1-800-332-2344

GENERAL NOTES:

- 1. NO CONSTRUCTION SHALL BE STARTED WITHOUT A NOTICE TO PROCEED BY THE CITY ENGINEERING DEPARTMENT...
2. CONTRACTOR SHALL VERIFY ALL CONDITIONS ON THE JOB SITE INCLUDING BUT NOT LIMITED TO, ALL DIMENSIONS, GRADES, ELEVATIONS, EXTENT AND COMPATIBILITY TO THE EXISTING SITE CONDITIONS...
3. A CITY INSPECTOR ACTING ON BEHALF OF THE CITY MAY REQUIRE REVISIONS IN PLANS TO SOLVE UNFORESEEN PROBLEMS THAT MAY ARISE IN THE FIELD.
4. ALL CONSTRUCTION WORK AND INSTALLATIONS SHALL CONFORM TO THE CITY STANDARDS AND SPECIFICATIONS, AND ALL WORK SHALL BE SUBJECT TO THE APPROVAL OF THE CITY.
5. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO CONTACT "UNDERGROUND LOCATE SERVICE" AT 1-800-332-2344 AT LEAST 48 BUSINESS-DAY HOURS PRIOR TO THE START OF CONSTRUCTION FOR THE LOCATION OF POWER, GAS, CABLE TV AND TELEPHONE UNDERGROUND FACILITIES.
6. ALL UTILITIES SHOWN ARE ACCURATE TO THE EXTENT OF AVAILABLE RECORDS AND KNOWLEDGE. NO POTHOLING TO VERIFY LOCATIONS AND ELEVATIONS WAS AUTHORIZED BY THE OWNER.
7. ALL GRADING SHALL BE IN CONFORMANCE WITH THE CURRENT CITY STANDARDS AND SPECIFICATIONS AND CURRENT GRADING ORDINANCE.
8. ALL FINAL CUT AND FILL SLOPES SHALL NOT EXCEED A GRADE OF 2 HORIZONTAL TO 1 VERTICAL UNLESS OTHERWISE APPROVED.
9. ALL UNSUITABLE SOILS MATERIALS, RUBBISH AND DEBRIS RESULTING FROM GRADING OPERATIONS SHALL BE REMOVED FROM THE JOB SITE AND DISPOSED OF PROPERLY.
10. THE CONTRACTOR SHALL EMPLOY ALL LABOR, EQUIPMENT, AND METHODS REQUIRED TO PREVENT DUST IN AMOUNTS DAMAGING TO PROPERTY, CULTIVATED VEGETATION AND DOMESTIC ANIMALS OR CAUSING A NUISANCE TO PERSONS OCCUPYING BUILDINGS IN THE VICINITY OF THE JOB SITE.
11. THE CONTRACTOR SHALL FOLLOW ALL APPLICABLE INDUSTRIAL SAFETY REGULATIONS.
12. MATERIAL QUANTITIES USED, NOTED, OR PROVIDED IN A SEPARATE ITEMIZED QUANTITY TAKE-OFF ARE AN ENGINEER'S OPINION OF PROBABLE MATERIAL REQUIREMENTS, AND IS AN ESTIMATE ONLY.
13. ALL WORK IN THE PUBLIC RIGHT OF WAY SHALL BE PERFORMED BY A CITY APPROVED CONTRACTOR.
14. UTILITIES SHALL HAVE THE RIGHT TO INSTALL, MAINTAIN, AND OPERATE THEIR EQUIPMENT ABOVE AND BELOW GROUND AND ALL OTHER RELATED FACILITIES WITHIN THE PUBLIC UTILITY EASEMENTS (PUE) IDENTIFIED ON THIS PLAN.
15. CITY ENGINEER'S SIGNATURE DOES NOT CONSTITUTE APPROVAL OF FACILITIES PROPOSED ON PRIVATE PROPERTY.
16. ANY WORK WITHIN EXISTING PUBLIC RIGHT-OF-WAY OR DEDICATED CITY EASEMENTS REQUIRES A SEPARATE RIGHT-OF-WAY EXCAVATION PERMIT OBTAINED FROM THE CITY ENGINEERING DIVISION.
17. ALL WATER MAIN CONNECTION TO BE DESIGNED AND CONSTRUCTED WITH CROSS CONNECTION PROTECTION.
18. CONTRACTOR SHALL OBTAIN HYDRANT METER PERMIT FOR USE OF TESTING WATER MAIN.
19. ALL RESTORATION TO BE COMPLETED AS SOON AS POSSIBLE UPON COMPLETION AND APPROVAL FROM THE INSPECTOR FOR ON-SITE WORK AND UNDERGROUND WORK.
20. ALL RESTORATION SHALL COMPLY WITH CITY OF BEND STANDARDS AND SPECIFICATIONS AND FOLLOW THE BMP PAVING GUIDELINES ESTABLISHED BY STREET DEPARTMENT.
21. PRIOR TO IMPLEMENTING ANY TRAFFIC CONTROL PLANS, NOTIFICATION AND APPROVAL IS REQUIRED BY THE CITY OF BEND PRIVATE DEVELOPMENT ENGINEERING DEPARTMENT.
22. THESE PLANS WILL EXPIRE ONE YEAR FROM THE "CITY OF BEND ENGINEER" SIGNATURE DATE ON THE COVER.
23. PRIVATE INSPECTIONS WILL BE REQUIRED PER PART V OF THE CITY OF BEND STANDARDS AND SPECIFICATIONS UNLESS SPECIFIED OTHERWISE.

TRAFFIC CONTROL NOTES:

- 1. THE CONTRACTOR IS RESPONSIBLE FOR IMPLEMENTING THE APPROVED TRAFFIC CONTROL PLAN (TCP) TO PROVIDE SAFE AND EFFICIENT VEHICULAR, BICYCLE AND PEDESTRIAN MOVEMENT IN AND AROUND THE WORK ZONES.
2. THE CONTRACTOR SHALL COMPLY WITH ALL PERMIT REQUIREMENTS INCLUDING THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) AND THE OREGON TEMPORARY TRAFFIC CONTROL HANDBOOK FOR OPERATIONS OF THREE DAYS OR LESS.
3. UNLESS APPROVED BY THE CITY ENGINEER, ARTERIAL ROADS SHALL HAVE NO LANE RESTRICTIONS FROM 6:30 TO 9:00 AM AND FROM 3:30 TO 6:30 PM.
4. TCP SHALL BE SUBMITTED TO THE CITY OF BEND A MINIMUM OF 14 DAYS PRIOR TO IMPLEMENTATION FOR REVIEW.

UTILITIES NOTES:

- 1. UTILITIES CROSSING SHALL BE PERPENDICULAR (90 DEGREES) TO THE CITY WATER, STORM, AND SEWER LINES.
2. UTILITY CROSSINGS SHALL MAINTAIN A MINIMUM VERTICAL SEPARATION OF 12 INCHES FROM ALL WATER AND SEWER MAIN LINES.
3. ANY UTILITY THAT IS LOCATED PARALLEL TO A CITY WATER OR SEWER MAIN LINE SHALL MAINTAIN A MINIMUM OF 10-FT OF HORIZONTAL SEPARATION.
4. THE CITY REQUIRES VISUAL INSPECTION (POT HOLING) OF ALL UTILITY CROSSINGS OF CITY WATER, STORM, AND SEWER LINES.
5. EXCAVATION AND DIRECTIONAL DRILLING REQUIRES POT HOLING PRIOR TO ANY WORK BEING CONDUCTED AND DURING DRILLING.
6. DIRECTIONAL DRILLING REQUIRES ADVANCED PROFILING OF THE CROSSING BEFORE WORK CAN BE PERMITTED.
7. NO EXCAVATION IS PERMITTED WITHIN 10 FT BEHIND A FORCE MAINS, PRESSURE MAINS, FIRE HYDRANT OR WATER MAINS THRUST BLOCK.
8. UTILITY CROSSINGS SHALL MAINTAIN 2 FT CLEARANCE HORIZONTALLY FROM CITY UTILITIES SUCH AS MANHOLES, VALVE CANS, INLETS, CATCH BASINS, ETC.
9. UTILITY LINES SHALL NOT BE PLACED IN THE ROOT AREAS OF TREES AND SHALL MAINTAIN 5 FT CLEARANCE FROM THE DRIPLINE OF TREES OR AS DIRECTED BY THE CITY ENGINEER.
10. COMPACTION IS REQUIRED AND TESTING PER SECTION 06405.46 (C) OR AT THE DISCRETION OF THE CITY ENGINEER.

STREET NOTES:

- 1. IF ANY WORK (NEW CONSTRUCTION OR RECONSTRUCTION) IMPACTS A CURB WHERE THERE IS A PEDESTRIAN WALKWAY (E.G. A SIDEWALK OR TRAIL/PATH) INTERSECTING A ROADWAY THEN A NEW RAMP OR REPLACEMENT OF AN EXISTING NON-COMPLIANT CURB RAMP MUST BE CONSTRUCTED.
2. IF ANY NEW WORK INCLUDES RESURFACING THROUGH A STREET LEVEL PEDESTRIAN WALKWAY (E.G. MARKED OR UNMARKED CROSSWALK), EVEN IF THE WORK IS NOT THE FULL WIDTH OF THE ROADWAY, CURB RAMPS MUST BE BUILT OR RECONSTRUCTED ON BOTH ENDS OF THE CROSSWALK.
3. IF ANY NEW SIDEWALK WORK CONNECTING TO AN EXISTING NON-COMPLIANT RAMP THAT REQUIRES ANY MODIFICATION TO ANY PORTION OF THE RAMP TO MEET CURRENT SIDEWALK DESIGN STANDARDS, THEN THE ENTIRE RAMP SHALL BE RECONSTRUCTED TO CURRENT STANDARDS.
4. IF ANY UTILITY TRENCH WORK IMPACTS A CURB AT A CROSS WALK, WITH OR WITHOUT A RAMP, THE REPLACEMENT OF AN EXISTING NON-COMPLIANT CURB RAMP MUST BE CONSTRUCTED.
5. IF UTILITY TRENCH WORK DOES NOT IMPACT A CURB RAMP BUT IS "LIMITED TO A PORTION OF THE PAVEMENT, INCLUDING A PORTION OF THE CROSS WALK" REPLACEMENT OF AN EXISTING NON-COMPLIANT CURB RAMP MAY NOT BE REQUIRED.
6. ANY WORK WITHIN THE PUBLIC RIGHT-OF-WAY THAT DISTURBS A PEDESTRIAN SIDEWALK OR TRAIL REQUIRES THE REPLACEMENT OF THAT FACILITY TO CURRENT CITY AND PROWAG STANDARDS.
7. IF ANY ADA RAMPS ARE IDENTIFIED TO BE CONSTRUCTED, THE CONTRACTOR SHALL CONSTRUCT PERPENDICULAR RAMPS PER CITY STANDARDS.
8. THE CITY PREFERS THAT VACTOR EXCAVATION AND ASPHALT CORE SAW BE USED TO POTHOLE UTILITIES.
9. ASPHALT RESTORATION LIMITS WILL BE DETERMINED AFTER PERMIT SCOPE IS COMPLETED.

LEGEND

Legend table listing symbols for Property Corner, Benchmark, Catch Basin, Cleanout, Concrete, Coniferous Tree (Juniper/Pine), Control Mon Culvert, Curb Inlet, Deciduous Tree, Conceptual Tree Location, Demo Existing Tree, Ditch Inlet, Drywell, Gas Meter, Gas Valve, Gravel, Guy Wire, Handicap, Mailbox, Monument, Railroad Crossing Arm, Existing Sanitary Manhole, Proposed 48" Sanitary Manhole, Proposed 60" Sanitary Manhole, Sign, Storm Manhole, Telephone Riser, Telephone Manhole, Traffic Signal Control Box, Traffic Signal W/ Mast Arm, Utility Pole, Utility Pole/Light, Utility Vault W/ Manhole, Bank (Bottom/Top), Cable TV, Canal, Centerline, Ditch (Center), Edge of Concrete, Edge of Gravel, Edge of Pavement, Easement, Fence (Other/Silt/Steel/Wood), Fiber Optics, Force Main, Gas, Grade Break, Guardrail, Irrigation, Jersey Barrier, Pavement Repair, Property Boundary, Property Setbacks, Power (Overhead), Railroad, River, Sanitary Sewer, Storm Drain, Telephone, Water.

CONSTRUCTION, INSPECTION, AND NOTIFICATION NOTES:

- 1. PERMITTEE SHALL REQUEST INSPECTIONS A MINIMUM OF 24 HOURS IN ADVANCE.
2. THE PERMITTEE SHALL REQUEST FINAL INSPECTION 48 HOURS AFTER THE WORK IS COMPLETE.
3. THE CITY CAN INSPECT ANY PORTION OF THE PROJECT AT ANY TIME. THE INSPECTION SHALL BE PERFORMED BY CITY INSPECTORS AND MAY REQUIRE INSPECTION BY THE ENGINEER OF RECORD (THIRD PARTY INSPECTORS).
4. CONTRACTOR SHALL PROVIDE THE CITY A MINIMUM OF 48 HRS NOTICE PRIOR TO ANY TRAFFIC CONTROL BEING IMPLEMENTED.
5. INSPECTIONS ARE REQUIRED FOR CITY UTILITY CROSSINGS AND FINAL STREET RESTORATION.
6. OUTSTANDING AND INCOMPLETE PERMITS MAY CONSTITUTE RESTRICTED PERMITTING TO THE APPLICANT AND CONTRACTORS.
7. THE PERMITTEE AND CONTRACTOR ARE RESPONSIBLE FOR ANY DAMAGE TO PUBLIC AND PRIVATE PROPERTY.

TECHNICAL SPECIFICATIONS

- 1. THE 2021 OREGON STANDARD SPECIFICATIONS FOR CONSTRUCTION (OSS), AS MODIFIED BY THE CITY OF BEND SPECIAL PROVISIONS TO THE OSS, FORM THE BASIS FOR THE TECHNICAL SPECIFICATIONS FOR THIS PROJECT.

ABBREVIATIONS

Table with 2 columns: Abbreviation and Full Name. Includes AC (Asphalt Concrete), BL (Bike Lane), COB (City of Bend), CTL (Center Turn Lane), CY (Cubic Yards), DWG (Drawing), EP (Edge of Pavement), FC (Face of Curb), FG (Finished Grade), HMA/C (Hot Mixed Asphalt Concrete), ISD (Intersection Sight Distance), N/A (Not Applicable), OPT (Optional), PCC (Portland Cement Concrete), PKG (Parking), PS (Planter Strip), RA (Roundabout), ROW (Right of Way), STD (Standard), TC (Top of Curb), TL (Travel Lane), TP (Top of Pavement), UGB (Urban Growth Boundary), VAR (Varies).

OWNER: STATE OF OREGON, 3015 SW WESTERN BLVD., CORVALLIS, OREGON 97333

ENGINEER: DOWL, 963 SW SIMPSON AVE, SUITE 200, BEND, OREGON 97702, ADAM CONWAY - ACONWAY@DOWL.COM

PROPERTY DATA: TAX LOT: 181206C002100, AREA: 1.07 ACRES, ZONE: MU, WATER: CITY OF BEND, SEWER: PACIFIC POWER LUMEN, PHONE: CASCADE NATURAL GAS, SCHOOL DISTRICT: BEND-LAPINE, FIRE: CITY OF BEND, TOPOGRAPHY: NATIVE VEGETATION AND ROCK

THERE ARE NO KNOWN, NATURAL HAZARDS OR LOCALLY OR FEDERALLY DESIGNATED HISTORIC AND CULTURAL RESOURCES.

GRADING AND ESC NOTES:

- 1. THE ENGINEER OF RECORD CAN PROVIDE ADDITIONAL BEST MANAGEMENT PRACTICES (BMP) FROM SECTION 9.4.3 IN THE CENTRAL OREGON STORMWATER MANUAL (COSM) THAT APPLY TO THE PROJECT.
2. HOLD A PRE-CONSTRUCTION MEETING THAT INCLUDES THE CITY OF BEND INSPECTOR, EOR AND CONTRACTOR TO DISCUSS EROSION AND SEDIMENT CONTROL MEASURES AND CONSTRUCTION LIMITS.
3. THE EROSION AND SEDIMENT CONTROL (ESC) PLAN MUST BE KEPT ONSITE AT ALL TIMES WHEN WORK IS OCCURRING.
4. THE ESC MEASURES SHOWN ON THIS PLAN ARE MINIMUM REQUIREMENTS FOR ANTICIPATED SITE CONDITIONS.
5. THE FOLLOWING CONSTRUCTION SEQUENCE SHALL BE FOLLOWED IN ORDER TO BEST MINIMIZE THE POTENTIAL FOR EROSION AND SEDIMENTATION CONTROL PROBLEMS:
a. FENCE OR FLAG AREAS TO BE PROTECTED OR LEFT UNDISTURBED DURING CONSTRUCTION
b. INSTALL GRAVELED OR PAVED CONSTRUCTION ENTRANCES, EXITS, AND PARKING AREAS TO REDUCE THE TRACKING OF SEDIMENT ONTO PUBLIC AND PRIVATE ROADS
c. CLEAR AND GRUB SUFFICIENTLY FOR INSTALLATION OF TEMPORARY ESC BMPS
d. INSTALL TEMPORARY ESC BMPS, CONSTRUCTING SEDIMENT TRAPPING BMPS AS ONE OF THE FIRST STEPS PRIOR TO GRADING
e. CLEAR, GRUB AND GRADE INDIVIDUAL AND ROUGH GRADE FOR ROADS AND UTILITY LOCATIONS
f. CLEAR, GRUB AND GRADE INDIVIDUAL LOTS OR GROUPS OF LOTS
g. TEMPORARILY STABILIZE A LOT OR GROUPS OF LOTS, THROUGH RE-VEGETATION OR OTHER APPROPRIATE BMPS, WHERE SUBSTANTIAL CUT OR FILL SLOPES ARE RESULT OF SITE GRADING
h. CONSTRUCT ROADS, BUILDINGS, PERMANENT STORMWATER FACILITIES (I.E. INLETS, PONDS, UIC FACILITIES, ETC.)
i. PROTECT ALL PERMANENT STORMWATER FACILITIES UTILIZING THE APPROPRIATE BMPS
j. REMOVE TEMPORARY ESC CONTROLS WHEN PERMANENT STORMWATER FACILITIES HAVE BEEN INSTALLED.
6. INSPECT ALL ROADWAYS ADJACENT TO THE CONSTRUCTION ACCESS ROUTE AT THE END OF EACH DAY.
7. COVER AND SECURE ALL DUMP TRUCK LOADS LEAVING THE CONSTRUCTION SITE TO MINIMIZE SPILLAGE ON ROADS.
8. RESTORE CONSTRUCTION ACCESS ROUTE EQUAL TO OR BETTER THAN THE PRE-CONSTRUCTION CONDITION.
9. STABILIZE EXPOSED UNWORKED SOILS (INCLUDING STOCKPILES), WHETHER AT FINAL GRADE OR NOT.
10. PROTECT INLETS, DRYWELLS, CATCH BASINS AND OTHER STORMWATER MANAGEMENT FACILITIES FROM SEDIMENT.
11. KEEP ROADS ADJACENT TO INLETS CLEAN.
12. INSPECT INLETS WEEKLY AT A MINIMUM AND DAILY DURING STORM EVENTS.
13. INSTALL SEDIMENT CONTROLS ALONG THE SITE PERIMETER ON ALL DOWN GRADIENT SIDES OF THE CONSTRUCTION SITE BEFORE COMMENCING EARTH DISTURBING ACTIVITIES.
14. WHENEVER POSSIBLE, CONSTRUCT STORMWATER CONTROL FACILITIES (DETENTION/RETENTION STORAGE POND OR SWALES) BEFORE GRADING BEGINS.
15. STOCKPILE MATERIALS (SUCH AS TOPSOIL) ONSITE MUST BE KEPT OFF OF ROADWAY AND SIDEWALKS.
16. COVER, CONTAIN AND PROTECT ALL CHEMICALS, LIQUID PRODUCTS, PETROLEUM PRODUCT, AND NON-INERT WASTES PRESENT ONSITE FROM VANDALISM.
17. LOCATE DESIGNATED VEHICLE AND EQUIPMENT SERVICE AREAS, FUEL, AND MATERIALS AWAY FROM DRAINAGE INLETS, WATER COURSES, AND CANALS.
18. REGULARLY INSPECT AND MAINTAIN EQUIPMENT, ESPECIALLY FOR DAMAGED HOSES AND LEAKY GASKETS.
19. APPLY LANDSCAPING OR AGRICULTURAL CHEMICALS, INCLUDING FERTILIZERS AND PESTICIDES, IN SUCH A MANNER, AND AT APPLICATIONS RATES, THAT INHIBITS THE LOSS OF CHEMICALS INTO STORMWATER RUNOFF FACILITIES.
20. INSPECT ON A REGULAR BASIS (AT A MINIMUM WEEKLY, AND DAILY DURING/AFTER A RUNOFF PRODUCING STORM EVENT) AND MAINTAIN ALL EROSION AND SEDIMENT CONTROL BMPS TO ENSURE SUCCESSFUL PERFORMANCE OF THE BMPS.
21. REMOVE TEMPORARY ESC BMPS WITHIN 30 DAYS AFTER THE TEMPORARY BMPS ARE NO LONGER NEEDED.
22. KEEP SEDIMENT ON THE PROJECT SITE, TO THE MAXIMUM EXTENT PRACTICAL.
23. CONTROL FUGITIVE DUST FROM CONSTRUCTION ACTIVITY.
24. DESIGNATE THE LOCATION OF A SLURRY PIT WHERE CONCRETE TRUCKS AND EQUIPMENT CAN BE WASHED OUT.

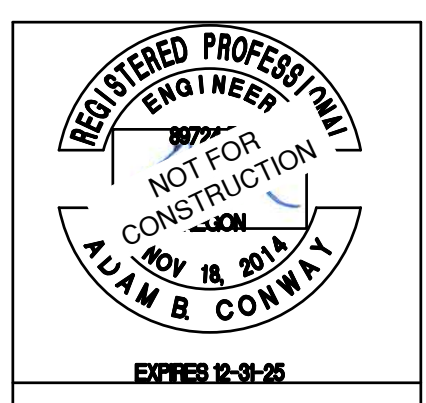
THRUST BLOCK BEARING AREA CALCULATION PER OREGON STD DWG RD250

A=THRUST BLOCK BEARING AREA, T=THRUST AT FITTING IN POUNDS, B=SOIL BEARING CAPACITY, Pp=DESIGN TEST PRESSURE (150 PSI), Pt=TABLE PRESSURE

A=(T/B)(Pp/Pt), A=(3035/3000)(150/250), A=6.07

THRUST BLOCK BEARING AREA CALCULATION

OSU CASCADES LITTLE KITS COVER SHEET, DESCHUTES COUNTY, OREGON, OREGON UTILITY NOTIFICATION CENTER 1-800-332-2344



OSU CASCADES LITTLE KITS COVER SHEET, DESCHUTES COUNTY, OREGON



Revisions table with columns for revision number and description.

DOWL logo and contact information: 963 SW Simpson, #200 Bend, Oregon 97702, 541-365-4772

DESIGNED BY: AC, DRAWN BY: RB, SCALE: VARIES, FILE: SA-CSC-CV-18890, DATE: 07/12/24

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DATE: 2-24-22

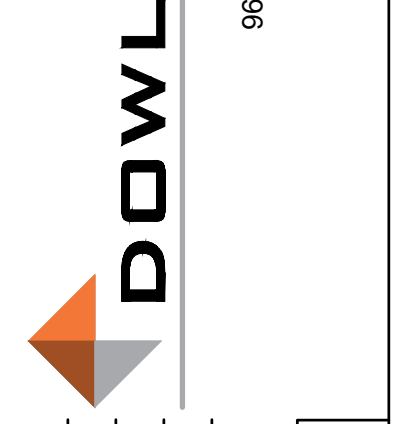
OSU CASCADES
LITTLE KITS
STANDARD DETAILS

DESCHUTES COUNTY, OREGON

REVISIONS:



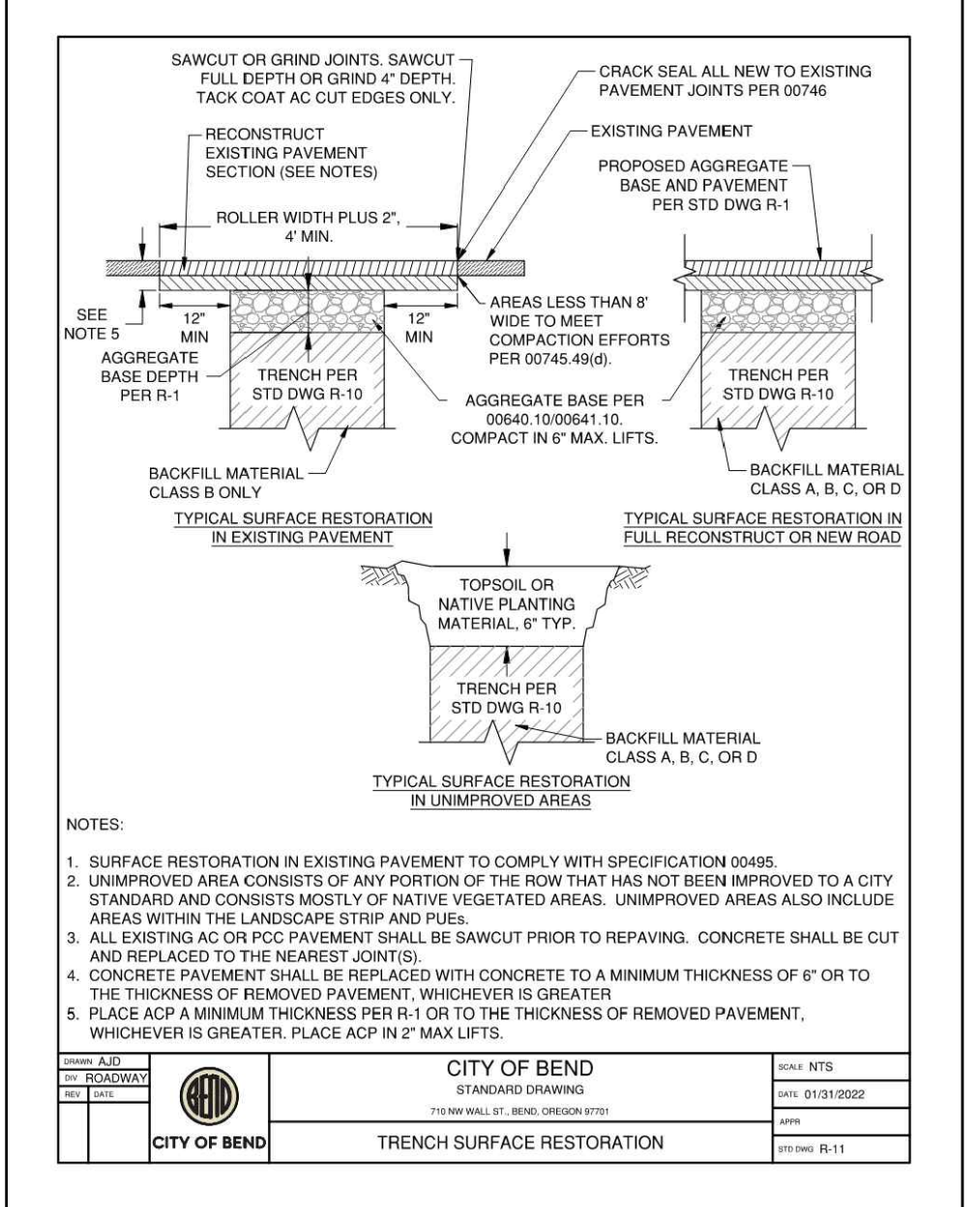
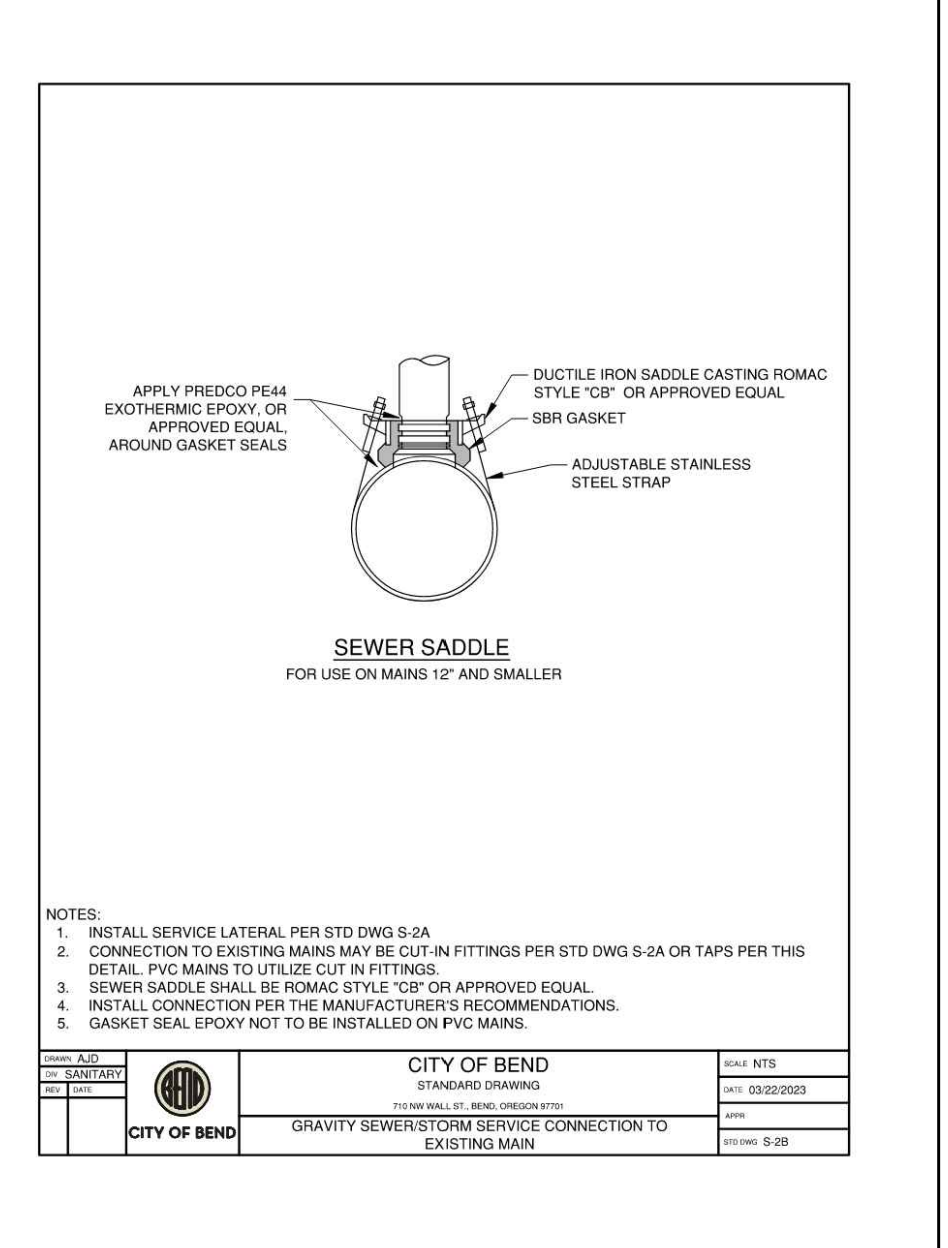
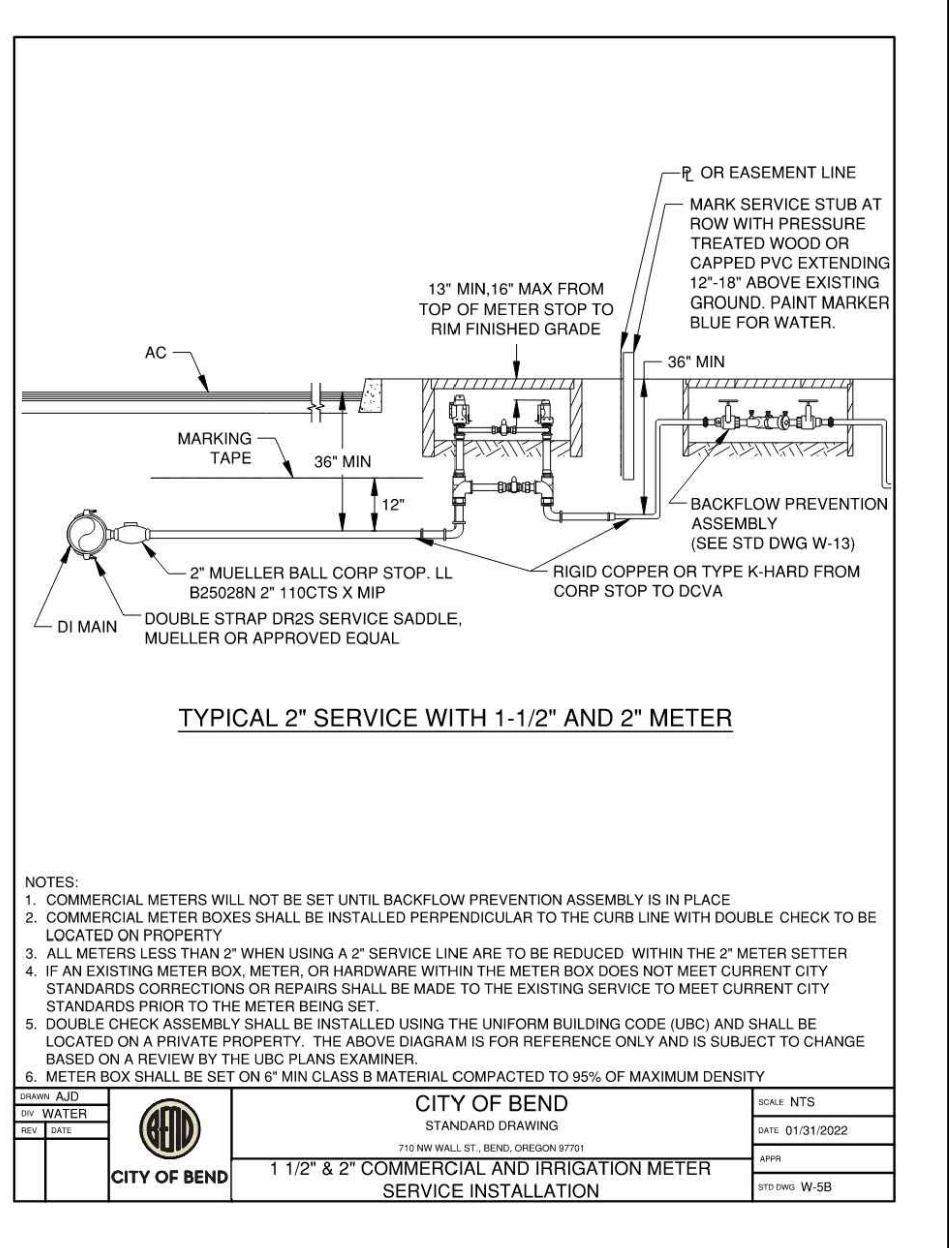
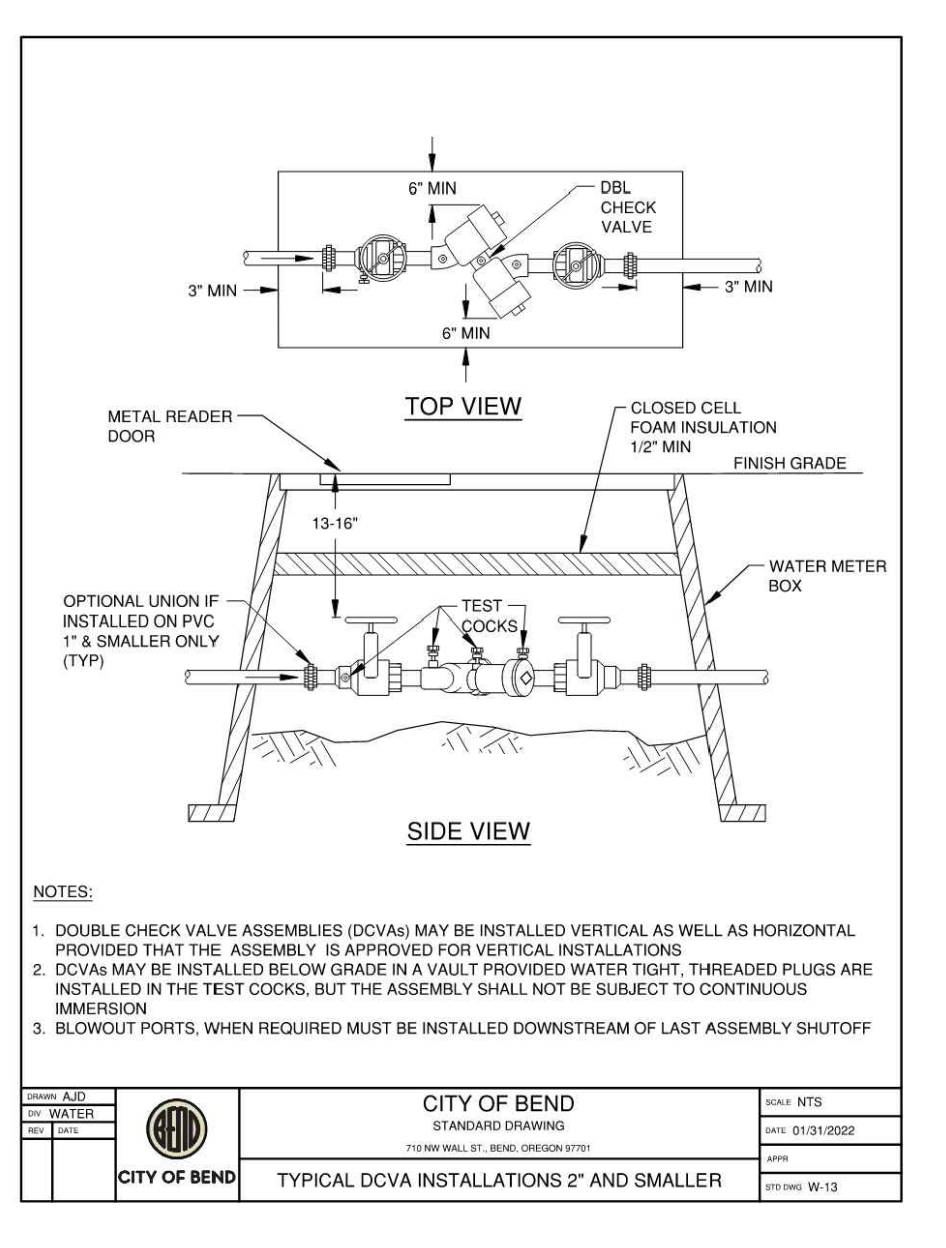
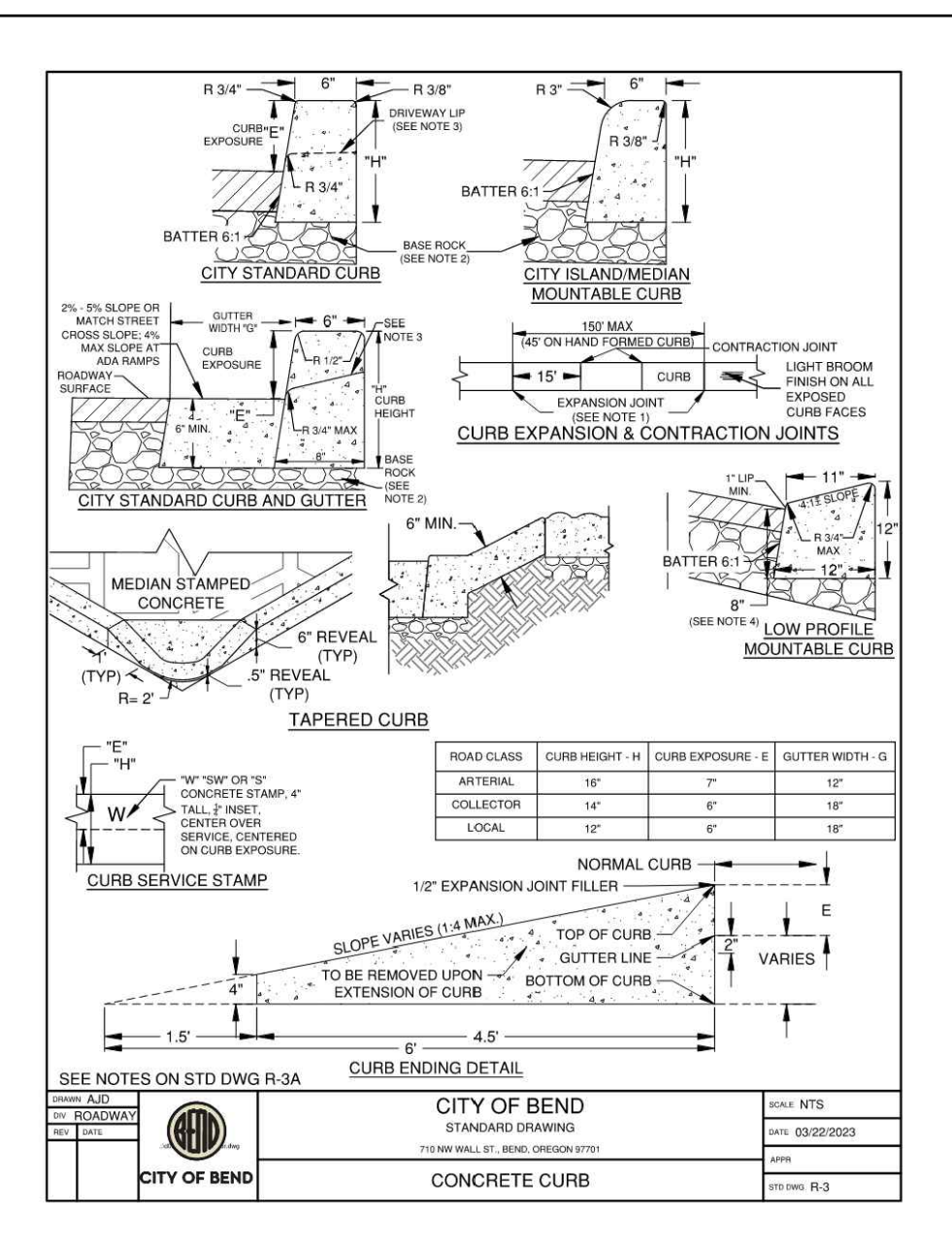
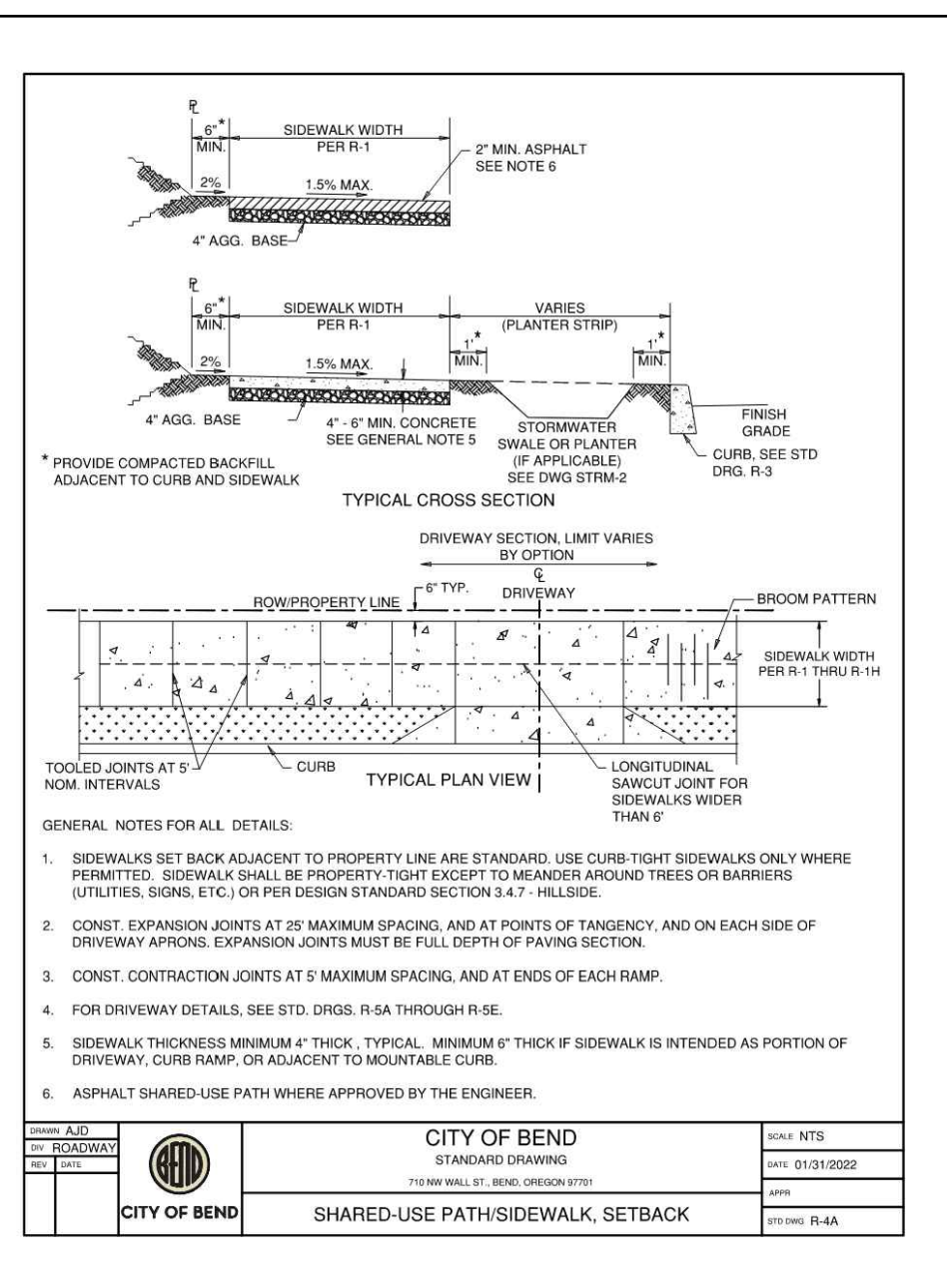
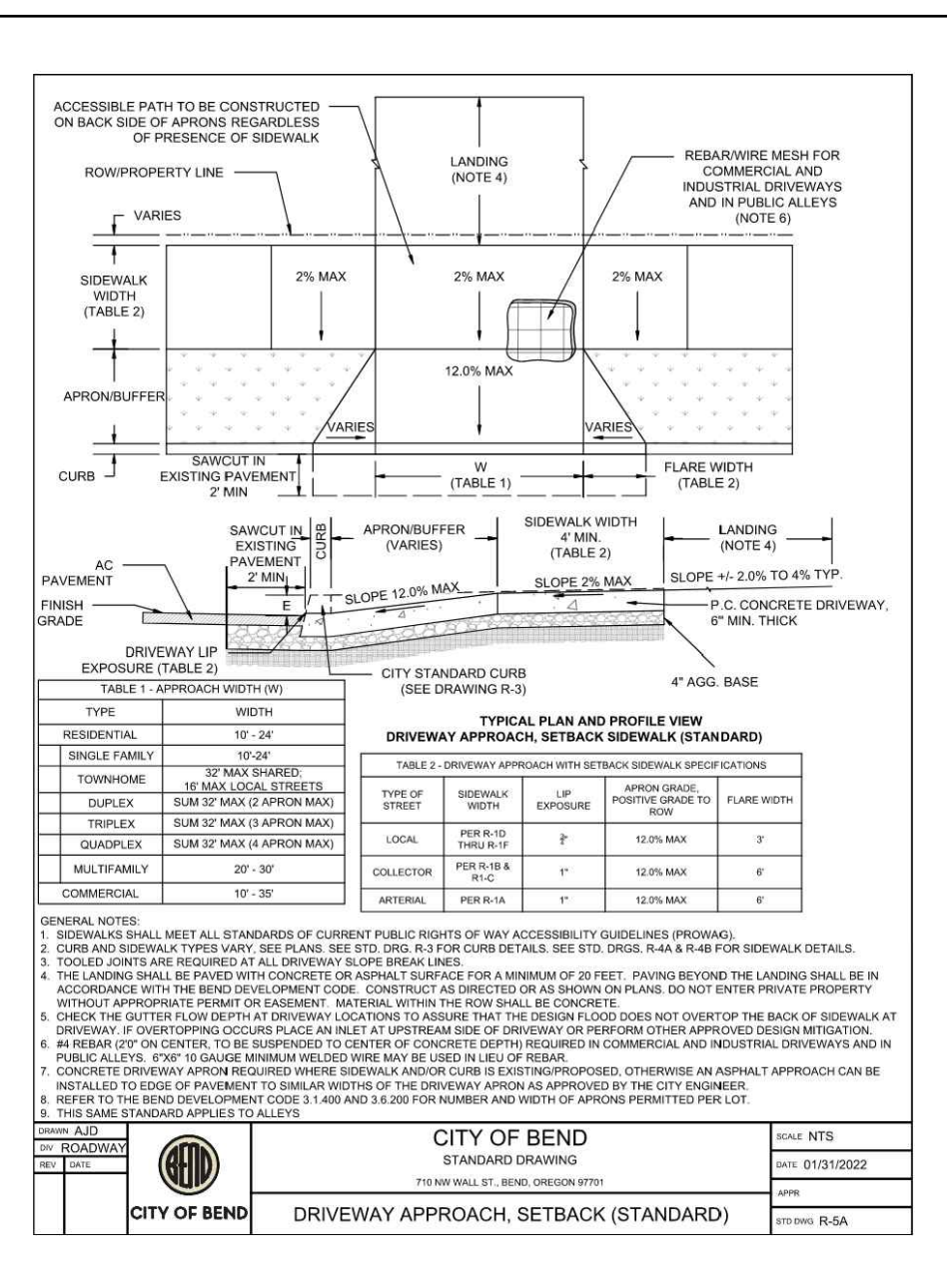
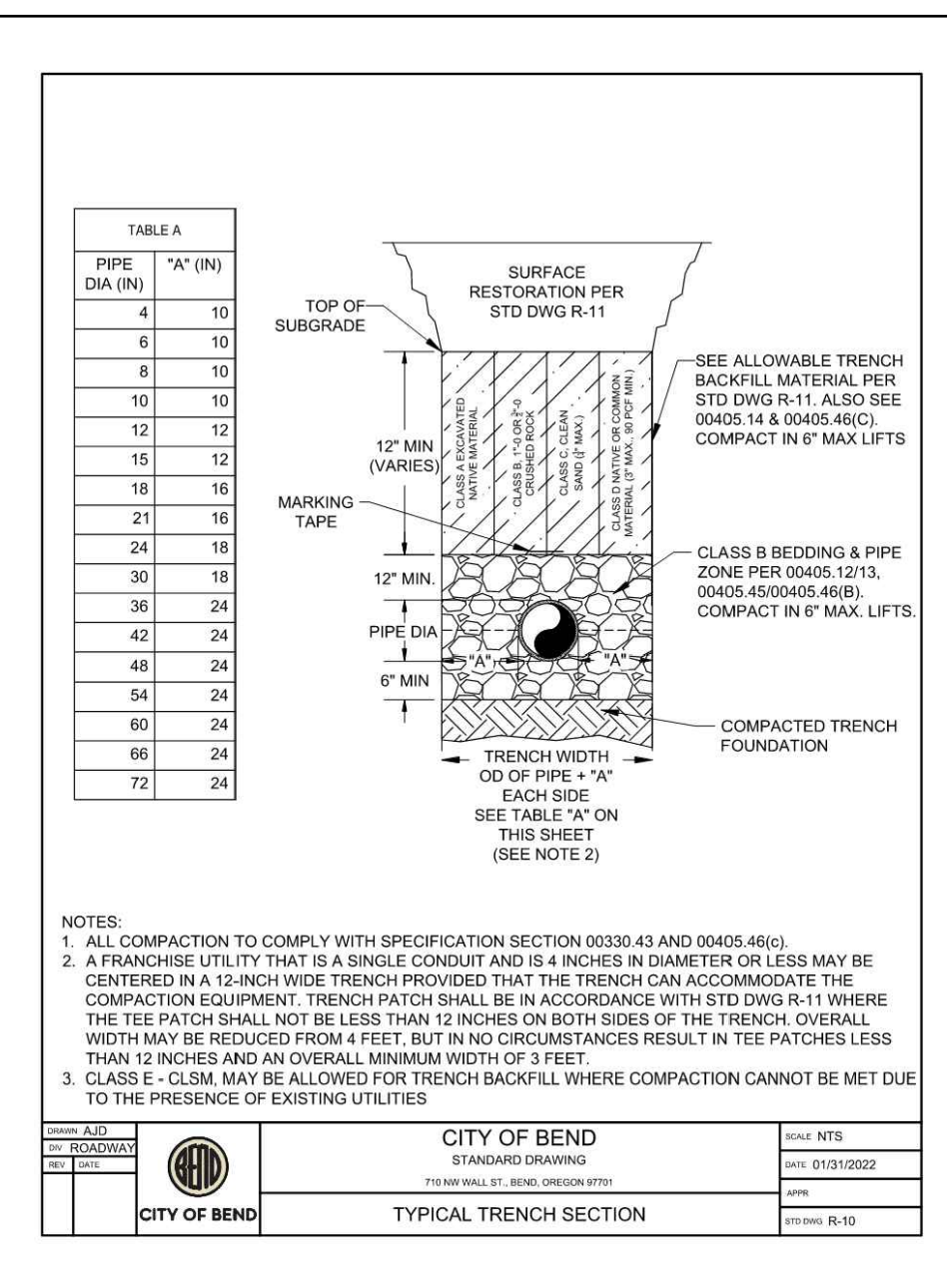
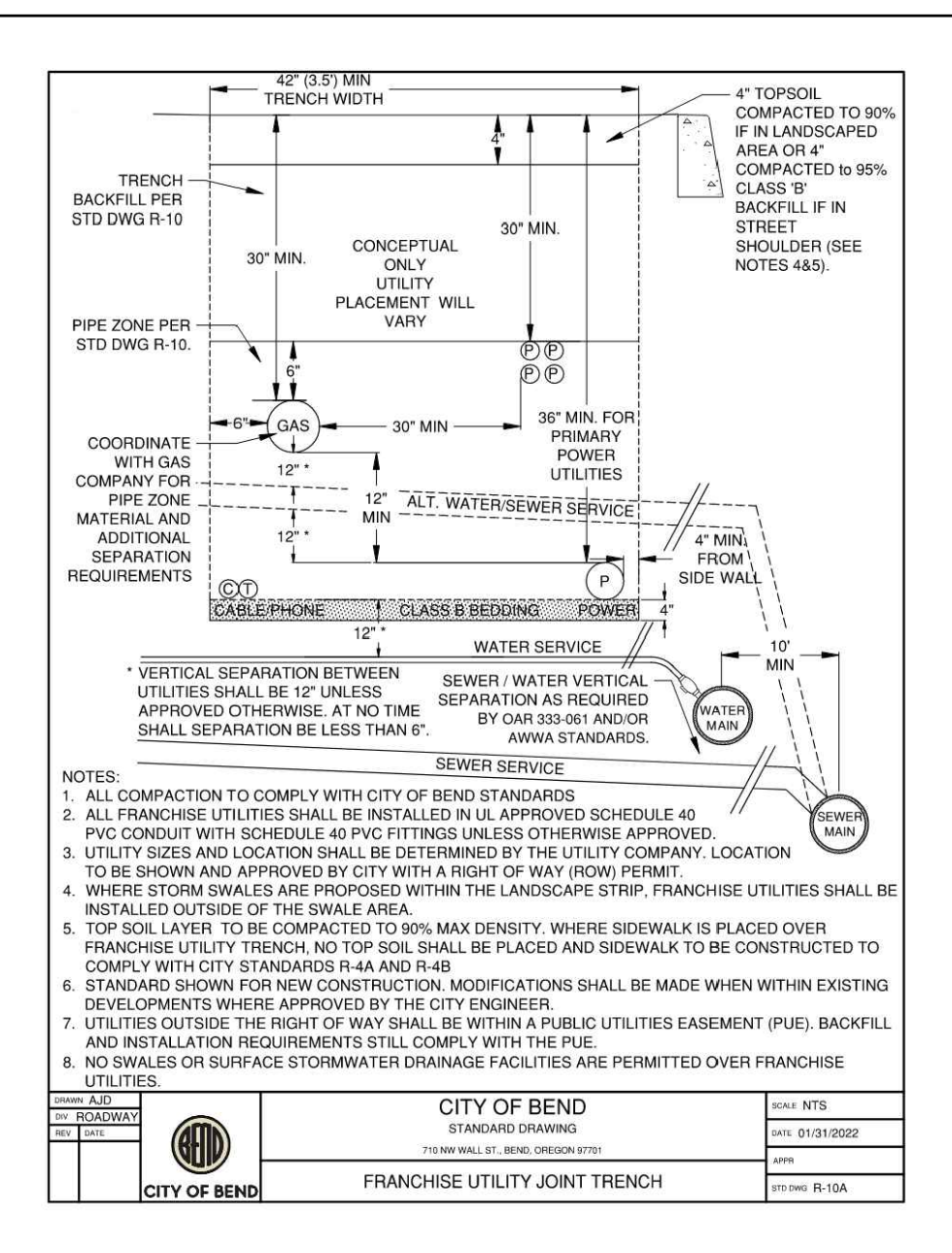
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541-385-4772

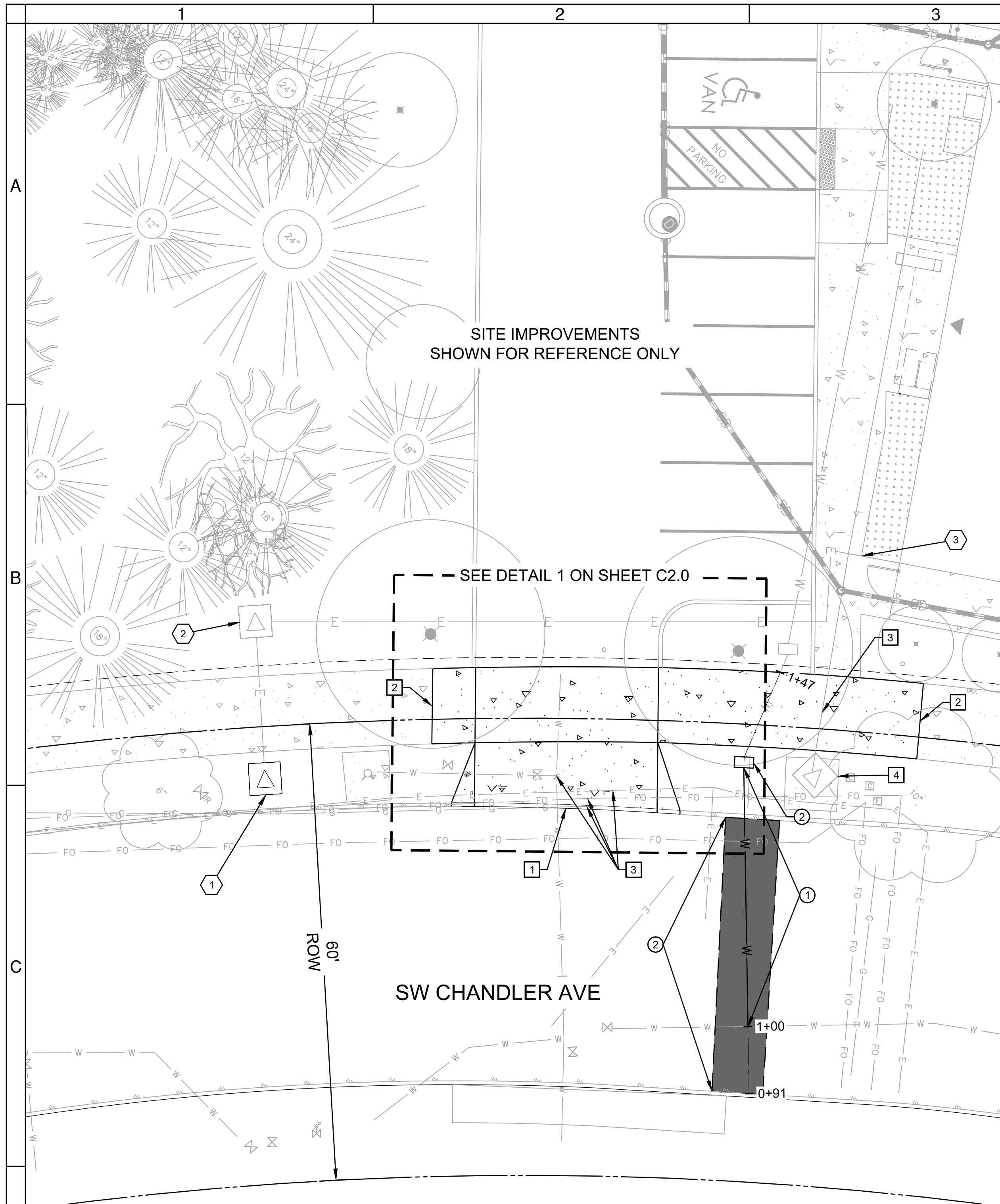


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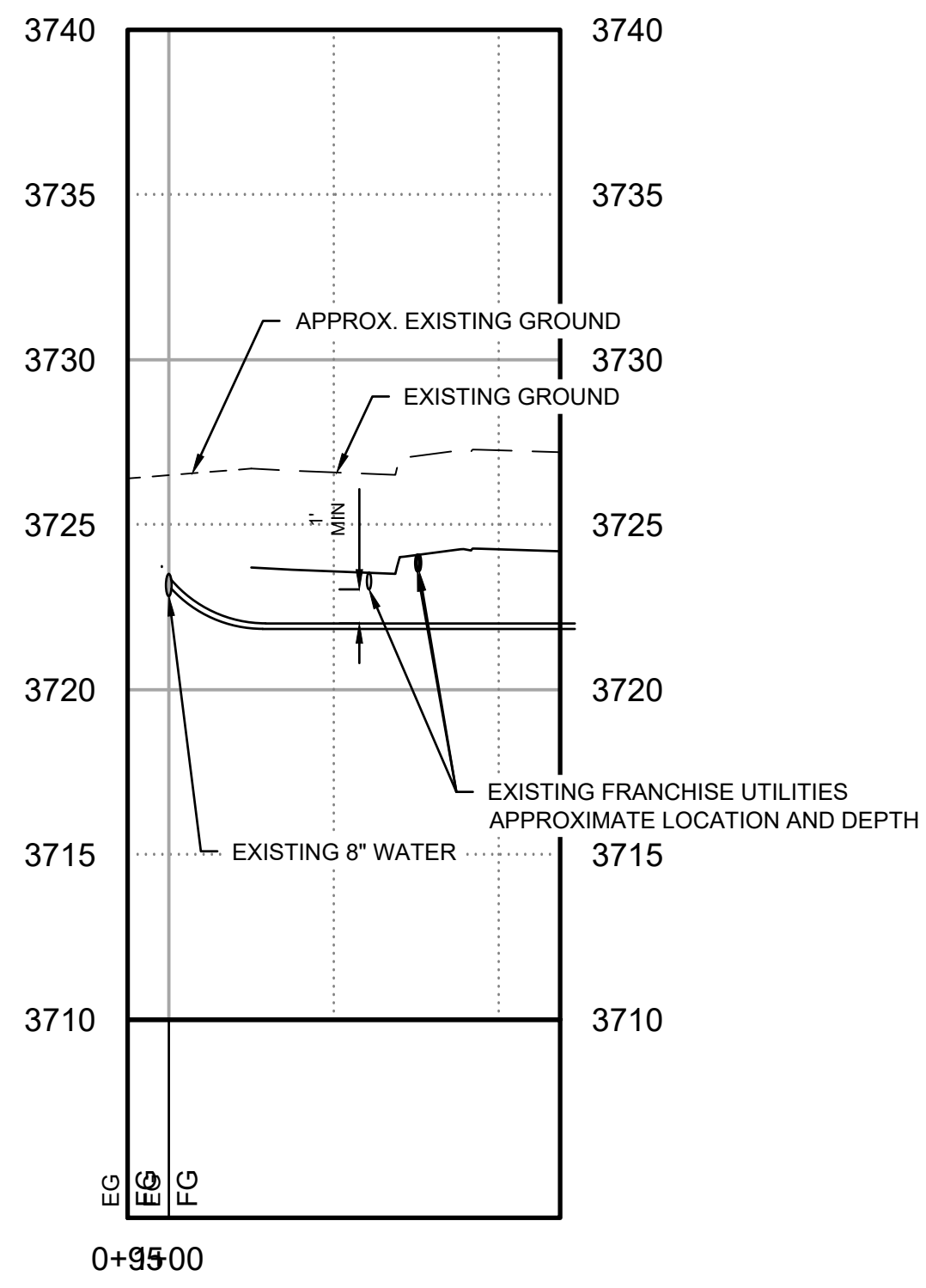
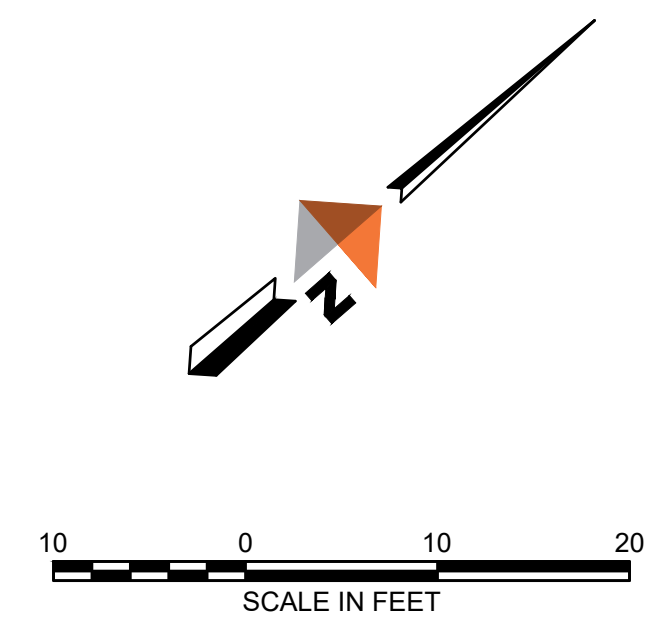
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BAR EQUALS ONE INCH
ON ORIGINAL DRAWING

SHEET: G3.0





1 SITE PLAN
C1.0 SCALE: 1"=10'



3 WATER SERVICE PROFILE
C1.0 SCALE: H:1"=10' V:1"=5'

GENERAL NOTES

- SEE LANDSCAPE PLAN FOR ADDITIONAL SITE DETAILS

ELECTRIC CONSTRUCTION NOTES

- PROPOSED POWER CABINET
- PROPOSED 75KVA PM TRANSFORMER
- PROPOSED ELECTRIC SERVICE METER LOCATION

WATER CONSTRUCTION NOTES

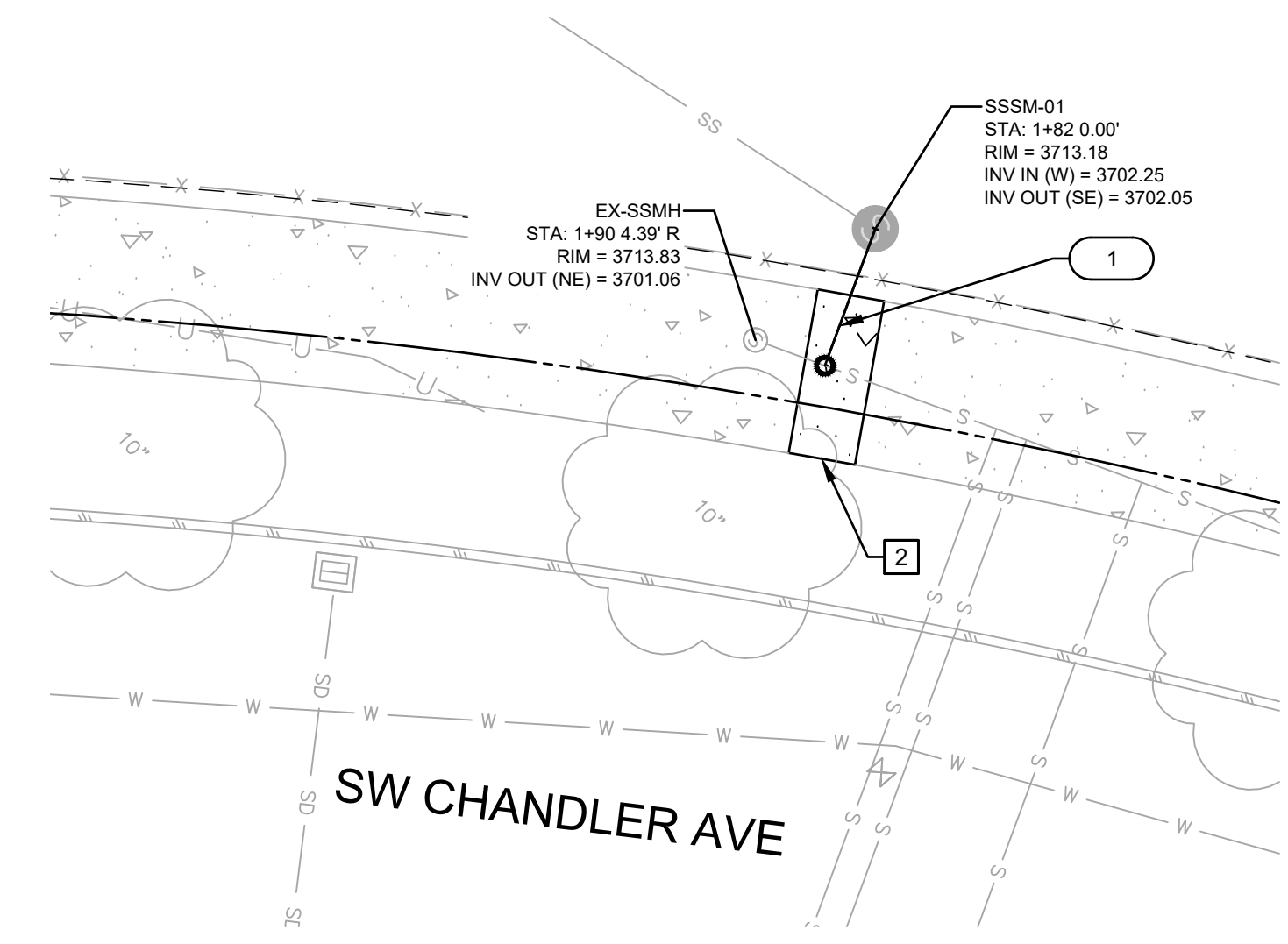
- CONNECT 2" COMMERCIAL WATER SERVICE (1 1/2" METER) TO EXISTING MAIN WITH TAPPING SLEEVE AND SADDLE PER COB STD DWG. W-5B. INSTALL THRUST BLOCK BEHIND TAP PER OREGON STD DWG R250 (SEE 2/G2.0)
- PROPOSED TRENCH SURFACE RESTORATION LIMITS PER COB STD DWG R-11.

SITE CONSTRUCTION NOTES

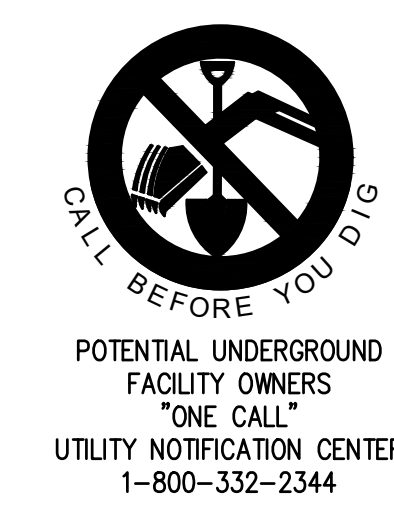
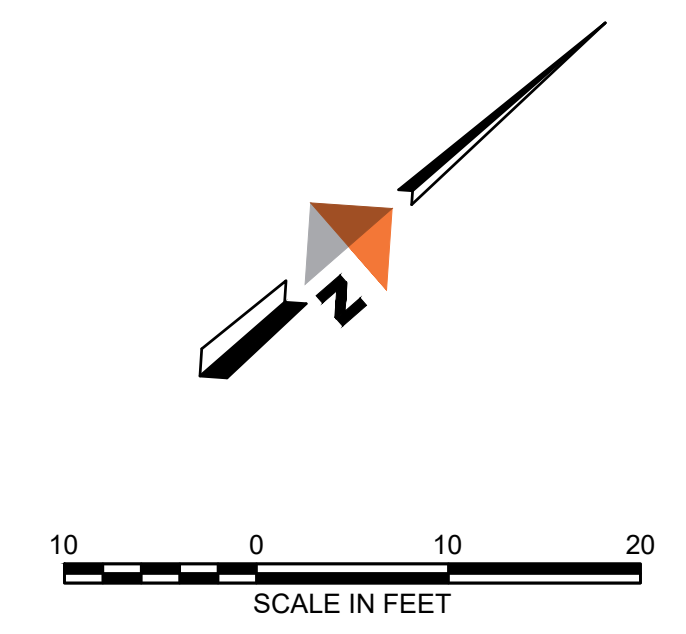
- INSTALL DRIVEWAY APPROACH PER COB STD DWG R-5A.
- INSTALL SIDEWALK PER COB STD DWG R-4A (5' MINIMUM WIDTH).
- PROTECT EXISTING UTILITIES. CONTRACTOR TO POTHOLE PRIOR TO CONSTRUCTION AND NOTIFY ENGINEER OF ANY CONFLICTS.
- PROTECT EXISTING ELECTRICAL EQUIPMENT.

SANITARY SEWER CONSTRUCTION NOTES

- INSTALL SANITARY SEWER SERVICE TO EXISTING SEWER MAIN PER COB STD DWG S-2B.



2 SITE PLAN
C1.0 SCALE: 1"=10'



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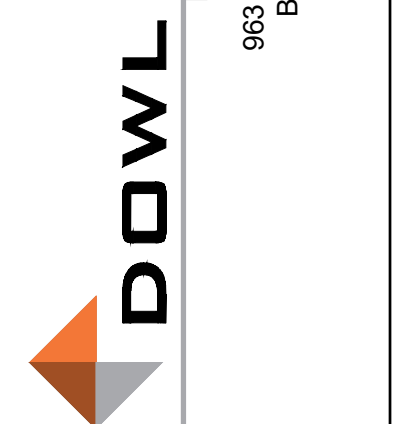
**OSU CASCADES
LITTLE KITS
SITE PLAN AND PROFILE**
DESCHUTES COUNTY, OREGON



REVISIONS:

DESIGNED BY: AC
DRAWN BY: RB
SCALE: VARIES
FILE: SC_CS_C1.1-H880

983 SW Simpson #200
Bend, Oregon 97702
541-385-4772



DATE: 7/15/2024

VERIFY SCALES
0 1"
BAR EQUALS ONE INCH ON ORIGINAL DRAWING

SHEET:
C1.0



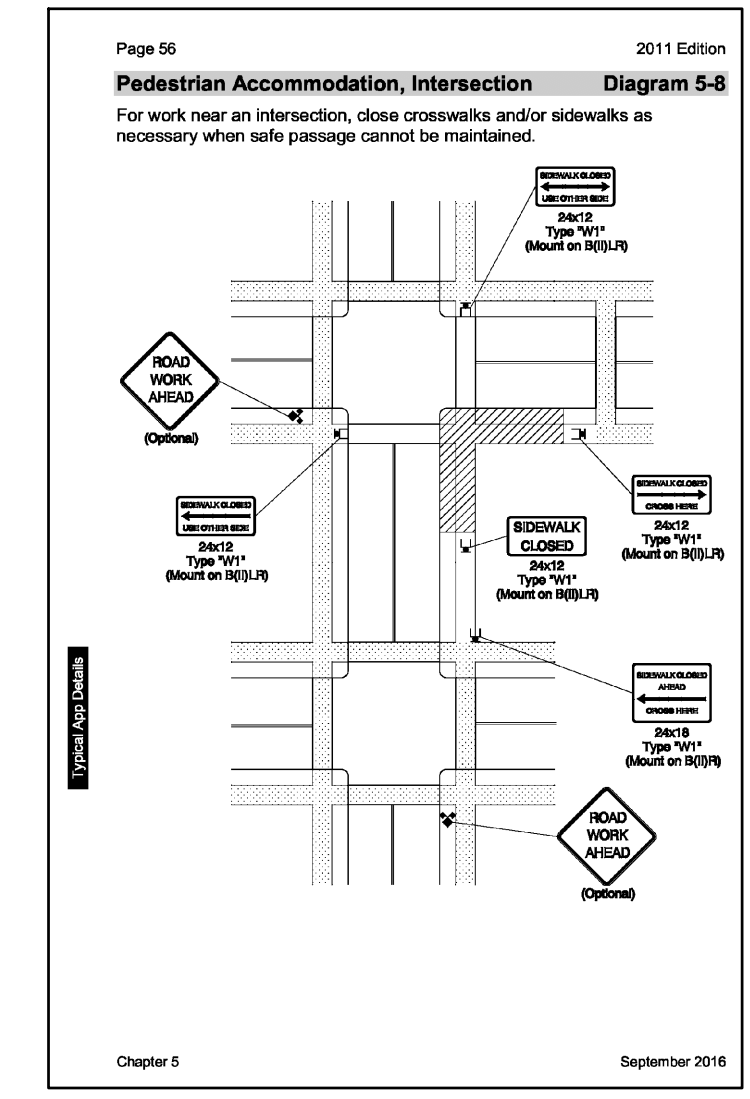
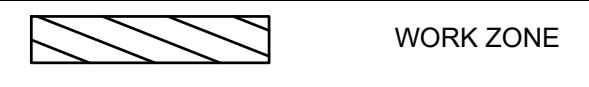
TRAFFIC CONTROL PLAN
N.T.S.



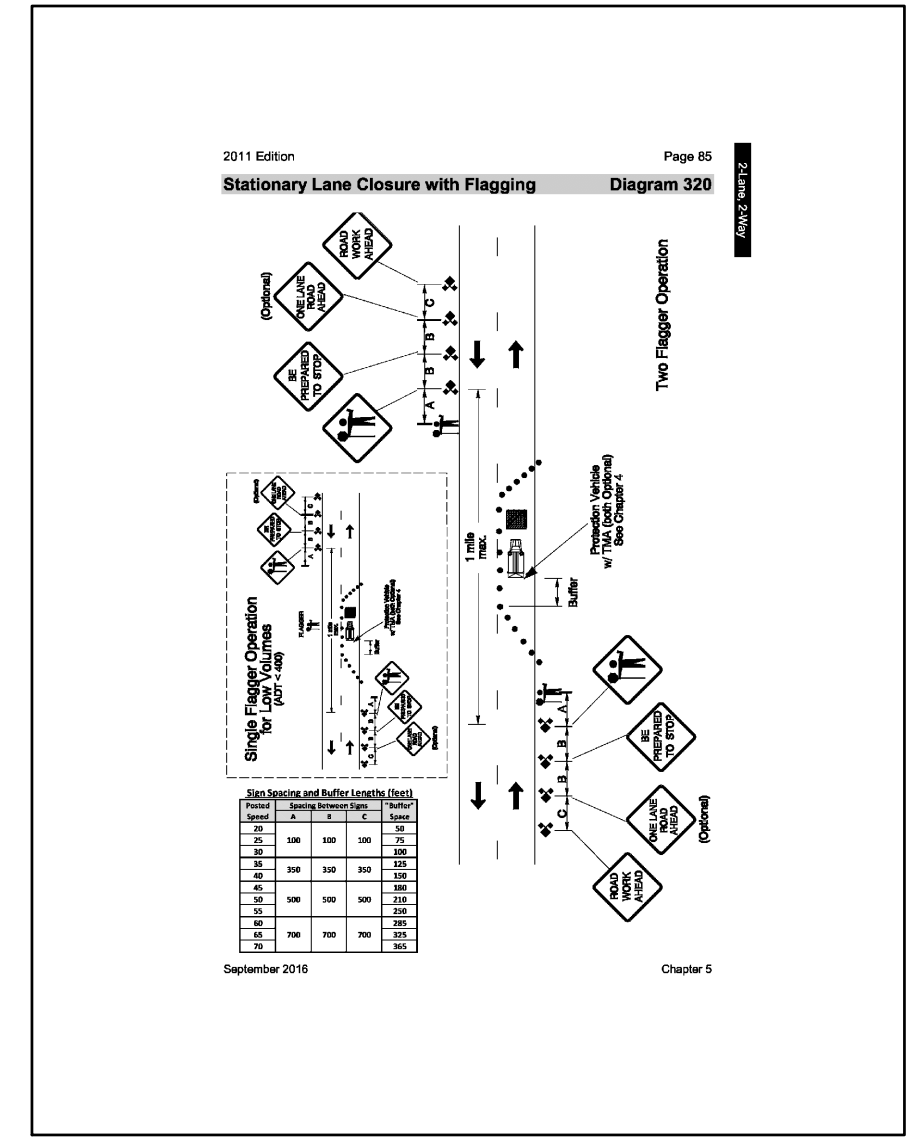
TRAFFIC CONTROL NOTES #

1. PROVIDE PEDESTRIAN ACCOMMODATION SIGNAGE IN ACCORDANCE WITH OREGON TEMPORARY TRAFFIC CONTROL HANDBOOK (OTTCH) DIAGRAM 5-8, SEE 1/C2.0.
2. PROVIDE SIGNAGE, FLAGGER OPERATIONS AND CHANNELING DEVICES IN ACCORDANCE WITH OTTCH DIAGRAM 320, SEE 2/C2.0.

LEGEND



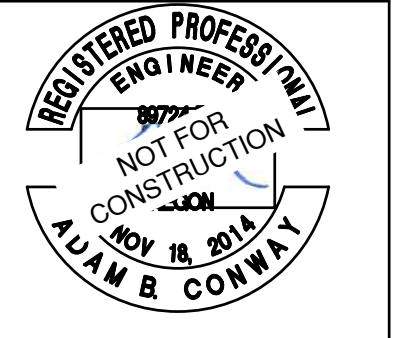
1
C2.0 OTTCH DIAGRAM 5-8
NTS



2
C2.0 OTTCH DIAGRAM 320
NTS



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**OSU CASCADES
LITTLE KITS**
TRAFFIC CONTROL PLAN
DESCHUTES COUNTY, OREGON



REVISIONS:

DESIGNED BY: AC
DRAWN BY: RB
SCALE: VARIES
FILE: SC_CS_C11-14860

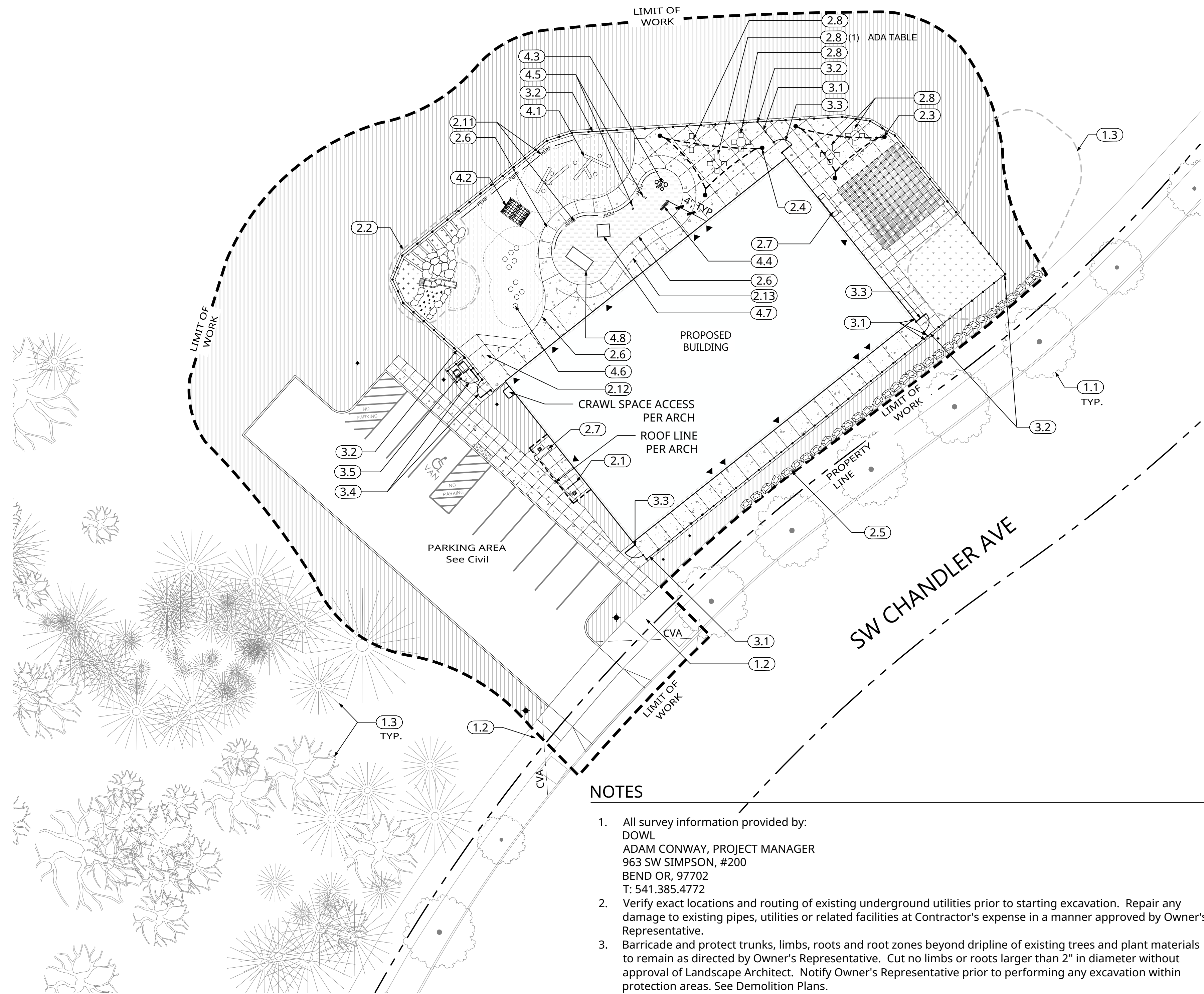
DOWL
www.dowl.com
963 SW Simpson, #200
Bend, Oregon 97702
Bend, 541-385-4772

DATE: 07/12/24

VERIFY SCALES
0 1"
BAR EQUALS ONE INCH ON ORIGINAL DRAWING

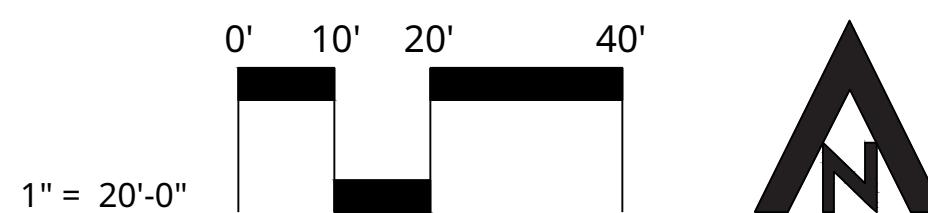
SHEET:
C2.0

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NOTES

- All survey information provided by:
DOWL
ADAM CONWAY, PROJECT MANAGER
963 SW SIMPSON, #200
BEND OR, 97702
T: 541.385.4772
- Verify exact locations and routing of existing underground utilities prior to starting excavation. Repair any damage to existing pipes, utilities or related facilities at Contractor's expense in a manner approved by Owner's Representative.
- Barricade and protect trunks, limbs, roots and root zones beyond dripline of existing trees and plant materials to remain as directed by Owner's Representative. Cut no limbs or roots larger than 2" in diameter without approval of Landscape Architect. Notify Owner's Representative prior to performing any excavation within protection areas. See Demolition Plans.
- All accessible components including, but not limited to signs, ramps, tactile warning, markings, etc. shall conform to all Oregon State Standards for parking and access for the disabled, and the City of Bend Development Code. Obtain Owner's Representative approval prior to installing any related work.
- Verify existing elevations where new work abuts existing to remain. Notify Owner's Representative of any discrepancies.
- See Irrigation Mainline Plan for irrigation sleeve locations.
- Match existing paving pattern to new concrete paving pattern at limit of work.



LEGEND

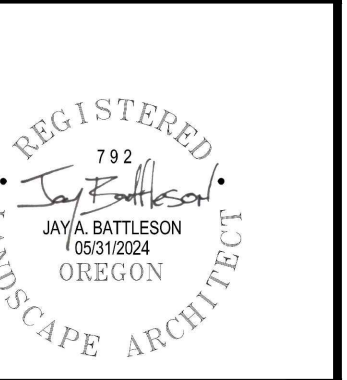
	PROPERTY LINE		CONCRETE PAVEMENT 2/L401, 2/L404
	APPROXIMATE WORK LIMITS PERFORATED DRAIN PIPE See Civil		ENGINEERED FIBER WOOD - TYPE 2 5/L405
	EXISTING TREES To Remain.		PLANT BED See Landscape Plan
	PROPOSED TREES		PLAY TILE SURFACING 2/L405
	ACCENT STONES WELDED TUFF		ENGINEERED FIBER WOOD - TYPE 1 5/L404
	BIKE PARKING		# 10 MINUS Placed in 2" lifts over compacted clean native subgrade
	DETECTABLE PAVING See Civil		
	NATURAL AREA 4 /L408		

KEY NOTES

1.0	EXISTING ELEMENTS	SEE CIVIL / DEMO PLAN	
1.1	EXISTING TREE TO REMAIN		
1.2	EXISTING CONCRETE PAVEMENT		
1.3	EXISTING CLUSTER OF TREES See Civil Plans for Trees to be Preserved		
2.0	SITE ELEMENTS	DETAIL/SHEET	BID ALTERNATE/ RESPONSIBLE PARTY
2.1	BIKE RACK	7 /L404	OFCI
2.2	EMBANKMENT SLIDE	1,2,3 /L407, 3 /L408	BASE BID
2.3	SHADE SAIL - TYPE 1	See Specifications	BID ALTERNATE #1
2.4	SHADE SAIL - TYPE 2	See Specifications	BID ALTERNATE #1
2.5	BOULDER WALL	4 /L404	BASE BID
2.6	CONTAINMENT CURB	6 /L404	BASE BID
2.7	6' BENCH	1 /L401	OFOI
2.8	TABLE	3,5 /L406	OFOI
2.9	HOPSCOTCH COURT STRIPING See Site Plan for Hopscotch location	1 /L408	BASE BID
2.10	COURT NUMBERS 1-9 See Site Plan for Court Number locations All lettering 1' ht., aerial font, Kelly Moore Traffic Paint, color white		BASE BID
2.11	PERFORATED PIPE	5 /L405, See Civil	BASE BID
2.12	ADA RAMP INTO PLAYGROUND	3 /L404	BASE BID
2.13	PAVEMENT STRIPING FOR BIKE COURSE Kelly Moore Traffic Paint, Color Beaver Orange		BASE BID
3.0	FENCE & GATES	DETAIL/SHEET	BID ALTERNATE/ RESPONSIBLE PARTY
3.1	FENCING - Type 1 (4' HEIGHT)	4 /L405	BASE BID
3.2	FENCING - Type 2 (6' HEIGHT)	4 /L405	BASE BID
3.3	PERSON GATE - Type 1 (4' HEIGHT, 4' WIDTH)	3 /L405	BASE BID
3.4	PERSON GATE - Type 2 (6' HEIGHT, 4' WIDTH)	3 /L405	BASE BID
3.5	SCREENED TRASH ENCLOSURE	3 /L405	BASE BID
4.0	OWNERS FURNISHED / OWNER INSTALLED ITEMS	DETAIL/SHEET	BID ALTERNATE/ RESPONSIBLE PARTY
4.1	LOG SCRAMBLE	1 /L404	BASE BID
4.2	TIMBERFORM 1 SECTION LINEAR TUNNEL CLIMBER	6 /L406	BID ALTERNATE #1
4.3	DRUM TREE	2 /L406	BID ALTERNATE #1
4.4	METALLOPHONE	2 /L408	BASE BID
4.5	1905 TALK TUBE, POWDER-COATED	4 /L406	BASE BID
4.6	LOG STEPPERS	4 /L401	BASE BID
4.7	4'x4' MINIFARMBOX RAISED GARDEN BED (minifarmbox.com)		OFOI
4.8	4'x8' MINIFARMBOX RAISED GARDEN BED (minifarmbox.com)		OFOI
5.0	NATURAL AREA IMPROVEMENTS	DETAIL/SHEET	BASE BID
5.1	NATURE AREA ENHANCEMENT	2/L408	BASE BID

ABBREVIATIONS:
OWNER FURNISHED AND OWNER INSTALLED = OFOI
OWNER FURNISHED AND CONTRACTOR INSTALLED = OFCI

REV	DATE	DESCRIPTION	BY



CAMERON MCCARTHY
Landscape Architecture & Planning
160 E Broadway, Eugene, OR 97401
220 NW 8th Avenue, Portland OR 97209
541-485-7385
www.cameronmccarthy.com

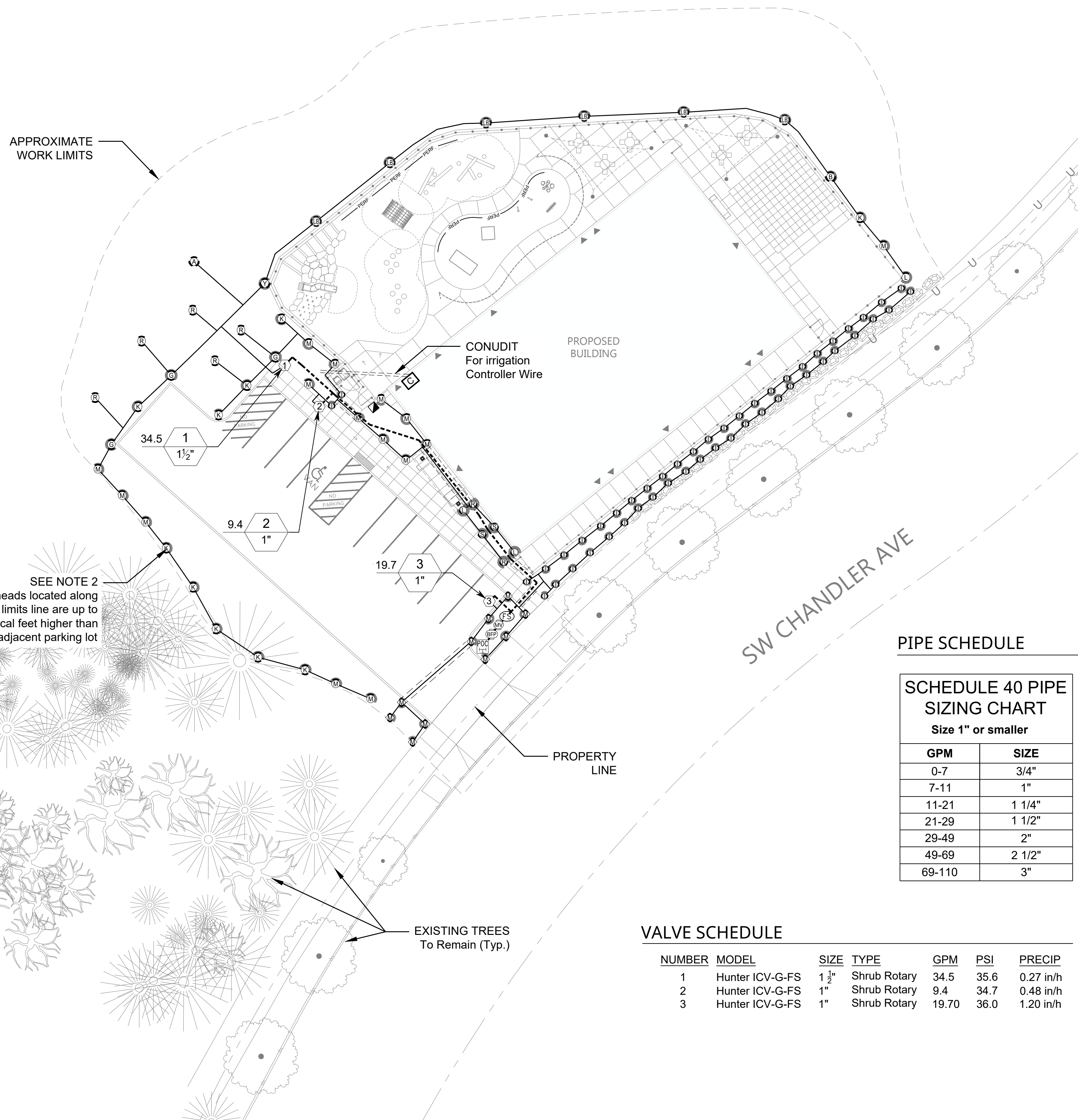
OSU CASCADES LITTLE KITS
BEND, OREGON
SITE PLAN

PROJECT 2122.14860.01
DATE 2/19/2024

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L100

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SEE NOTE 2
Irrigation heads located along work limits line are up to eight vertical feet higher than the adjacent parking lot

PIPE SCHEDULE

SCHEDULE 40 PIPE SIZING CHART
Size 1" or smaller

GPM	SIZE
0-7	3/4"
7-11	1"
11-21	1 1/4"
21-29	1 1/2"
29-49	2"
49-69	2 1/2"
69-110	3"

VALVE SCHEDULE

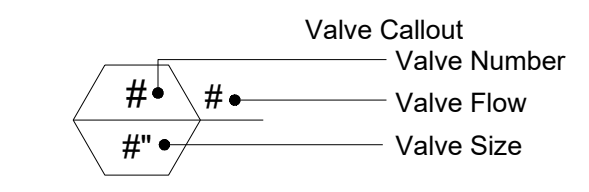
NUMBER	MODEL	SIZE	TYPE	GPM	PSI	PRECIP
1	Hunter ICV-G-FS	1 1/2"	Shrub Rotary	34.5	35.6	0.27 in/h
2	Hunter ICV-G-FS	1"	Shrub Rotary	9.4	34.7	0.48 in/h
3	Hunter ICV-G-FS	1"	Shrub Rotary	19.70	36.0	1.20 in/h

IRRIGATION SCHEDULE

SYMBOL	MANUFACTURER/MODEL	PSI
	Hunter MP Strip PROS-06-PRS30-CV	30
	Hunter MP1000 PROS-06-PRS30-CV	30
	Hunter MP2000 PROS-06-PRS30-CV	30
	Hunter MP3000 PROS-06-PRS30-CV	30
	Hunter MP3500 PROS-06-PRS30-CV	30
	Hunter MP800SR PROS-06-PRS30-CV	30
	Hunter MP815 PROS-06-PRS30-CV	30
	Hunter PROS-PRS30-06-CV-PCN	30

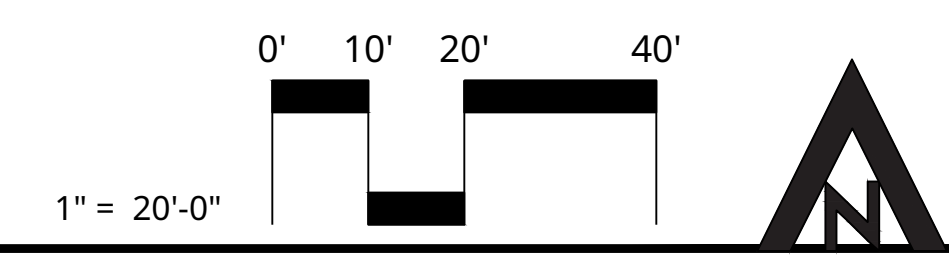
SYMBOL	MANUFACTURER/MODEL
	POINT OF CONNECTION 2" Bronze Gate Valve 2" Double Check Valve Assembly, Wilkens 350SXL 1" Quick Coupler Valve, Hunter HQ-5LRC
	BACK FLOW PREVENTOR See Civil
	MASTER VALVE
	FLOW SENSOR
	REMOTE CONTROL VALVE Hunter ICV-G-FS
	IRRIGATION CONTROLLER 12-Station Modular Irrigation Controller, Wall Mount Coordinate irrigation controller with all associated trades. Confirm controller location with owner prior to installation.
	QUICK COUPLER Hunter HQ-44LRC

	IRRIGATION LATERAL LINE PVC Schedule 40, Sized Per Pipe Chart
	IRRIGATION MAINLINE 2" PVC Schedule 40, 14 gauge Trace Wire
	PIPE SLEEVE PVC Schedule 40, Twice the Size of interior Pipe

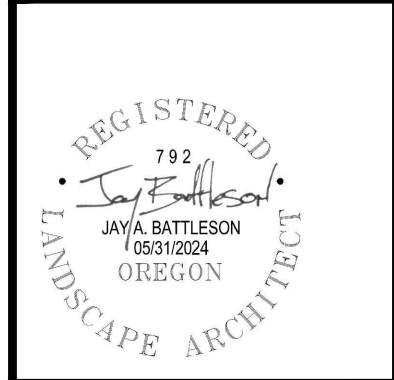


IRRIGATION PLAN NOTES

- Irrigation layout is schematic. It is intended that all irrigation lines will be routed through lawns and plant beds except where noted on drawing. Adjust routing of irrigation lines, heads and sleeves as necessary for any existing or proposed utilities.
- Contractor to verify existing water pressure will be adequate to supply the proposed irrigation system.
- Locate irrigation zone valve assemblies within plant beds where possible. Any irrigation zone valves diagrammatically located in pavement areas are to be installed in plant beds.
- Install spray heads 3" from adjacent pavement, walls, curbs, and planting edges; 6" from curbs in parking areas (3" if aligned with striping) unless directed otherwise by Owner's Representative.
- Adjust radius on spray heads as necessary to minimize overspray while achieving full and even coverage of planted areas.
- Verify static pressure of at least 55 psi at point of connection. Notify Owner's Representative prior to any construction if pressure is lower than 50 psi.
- Provide all necessary wiring required to make the irrigation system a fully serviceable and operational controlled installation at the completion of the project.
- Locate Irrigation mainline, lateral lines, and valve boxes to avoid conflict with tree plantings.



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CAMERON MCCARTHY
Landscape Architecture & Planning
160 E Broadway, Eugene, OR 97401
220 NW 8th Avenue, Portland OR 97209
541-485-7385
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OSU CASCADES LITTLE KITS
BEND, OREGON
IRRIGATION
PLAN

PROJECT 2122.14860.01
DATE 2/19/2024

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L200

PLANTING PLAN NOTES

1. Do not install any plant materials until Owner's Representative has reviewed and approved irrigation system installation, area coverage balancing, soil preparation and finish grading. Refine the shape and finish grade of plant beds as directed by Owner's Representative.
2. Protect all existing trees and plant materials to remain including limbs, trunks, roots and root zones.
3. Finish grade is top of topsoil. Mulch is in addition.
4. Prune all new plant materials as directed by Owner's Representative.
5. Make minor adjustments in tree spacing as necessary to accommodate the irrigation system as installed.
6. Where new lawn abuts existing, provide a smooth transition and make repairs as necessary to existing lawn.
7. Plant quantities shown are for Contractor's convenience only. Contractor is responsible to provide 100% coverage of entire area at spacing shown.
8. Triangle space all shrubs and groundcovers, unless otherwise noted.
9. All shown planting areas shall be hydroseeded with grass seed mix. The shown trees, shrubs, grasses, and perennials are inclusive of seeding.

LEGEND

- PROPERTY LINE
- - - APPROXIMATE WORK LIMITS
- PERFORATED DRAIN PIPE
See Civil
- EXISTING TREES
To Remain.

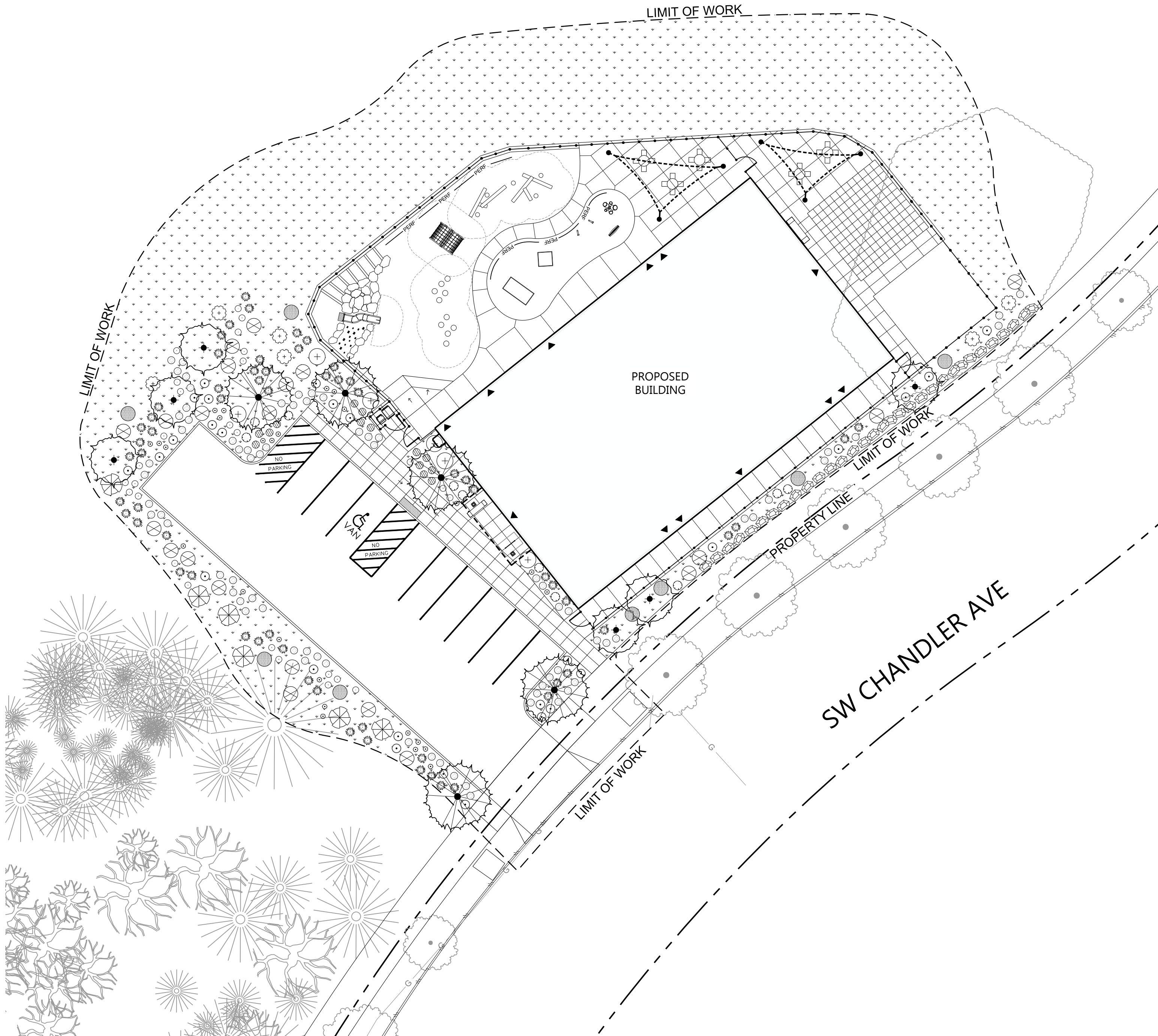
CONCEPT PLANT SCHEDULE

SEED MIX (TO BE FURNISHED AND INSTALLED BY CONTRACTOR)
 TYPE: GRASS SEED MIX
 AVAIL: WINTERCREEK NURSERY
 PH: 541.420.0083

Festuca idahoensis / Idaho Fescue	Seed	33.3%
Koeleria macrantha / Prairie Junegrass	Seed	33.3%
Pseudoroegneria spicata / Bluebunch Wheatgrass	Seed	33.3%

PLANT SCHEDULE

SYMBOL	QTY	BOTANICAL NAME	COMMON NAME	SIZE	CONDITION	SPACING
TREES (TO BE FURNISHED AND INSTALLED BY CONTRACTOR)						
	5	Pinus ponderosa	Ponderosa Pine	10'-12'	B&B or Cont	As Shown
	6	Pinus ponderosa	Ponderosa Pine	7'-9'	B&B or Cont	As Shown
SHRUBS (TO BE FURNISHED AND INSTALLED BY STAFF)						
	6	Artemisia tridentata	Big Sagebrush	#5		
	6	Chamaebatiaria millefolium	Fernbush	#5		
	8	Chrysothamnus viscidiflorus	Yellow Rabbitbrush	#5		
	21	Purshia tridentata	Antelope Bitterbrush	#5		
	6	Ribes cereum	Wax Currant	#5		
	10	Salvia dorrii	Desert Sage	#5		
GRASSES (TO BE FURNISHED AND INSTALLED BY STAFF)						
	73	Festuca idahoensis	Idaho Fescue	#1		
	14	Oryzopsis hymenoides	Indian Ricegrass	#1		
	62	Pseudoroegneria spicata	Bluebunch Wheatgrass	#1		
PERENNIALS (TO BE FURNISHED AND INSTALLED BY STAFF)						
	27	Eriogonum umbellatum	Sulfurflower Buckwheat	#1		
	26	Linum perenne lewisii	Blue Flax	#1		
	27	Penstemon humilis	Low Penstemon	#1		



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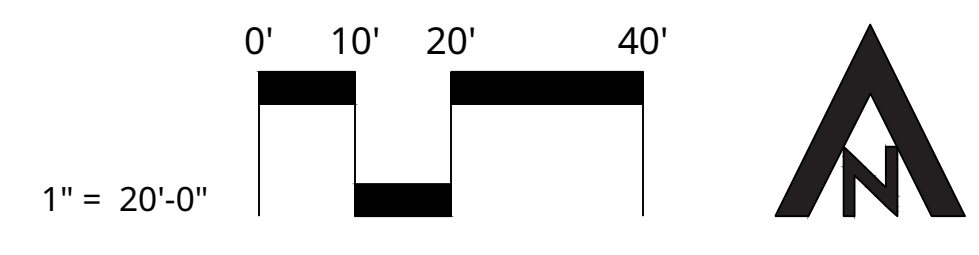
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 160 E Broadway, Eugene, OR 97401
 220 NW 8th Avenue, Portland OR 97209
 541-485-7385
 www.cameronmccarthy.com

OSU CASCADES LITTLE KITS
 BEND, OREGON
 LANDSCAPE PLAN

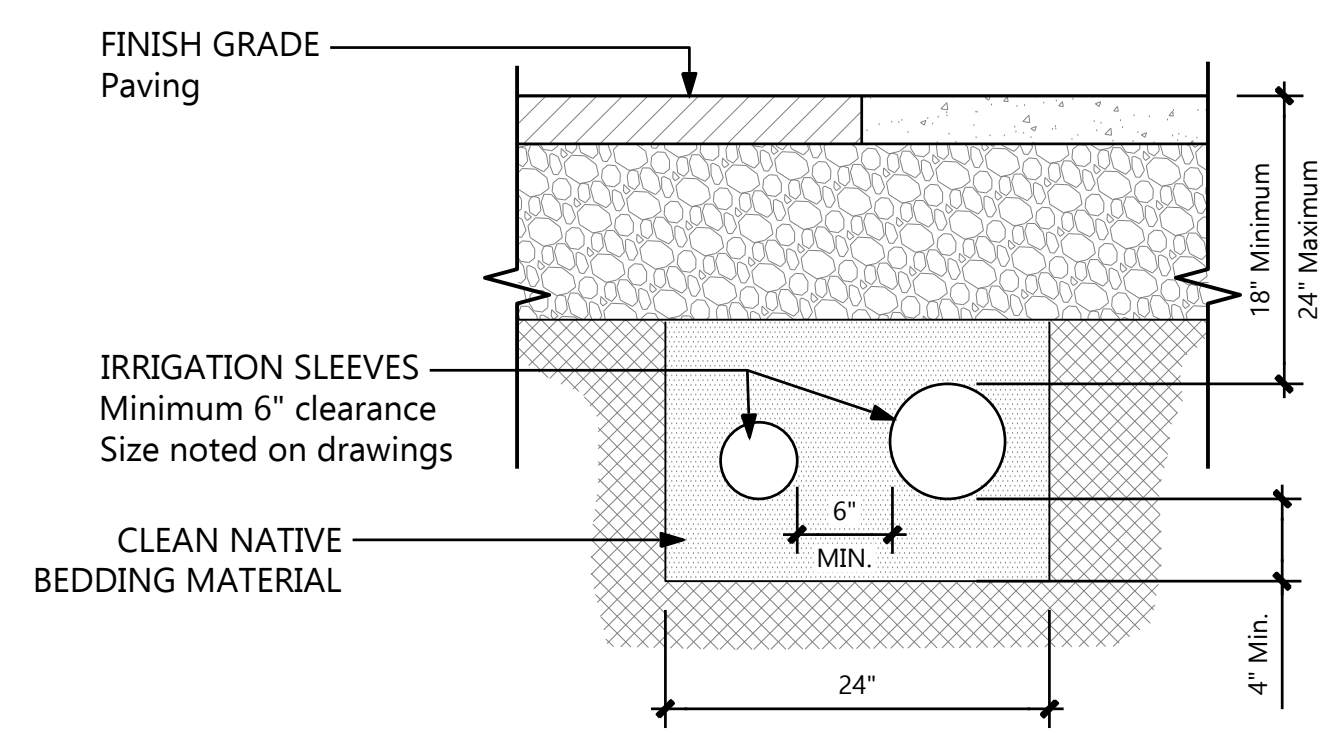
PROJECT 2122.14860.01
 DATE 2/19/2024

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L301

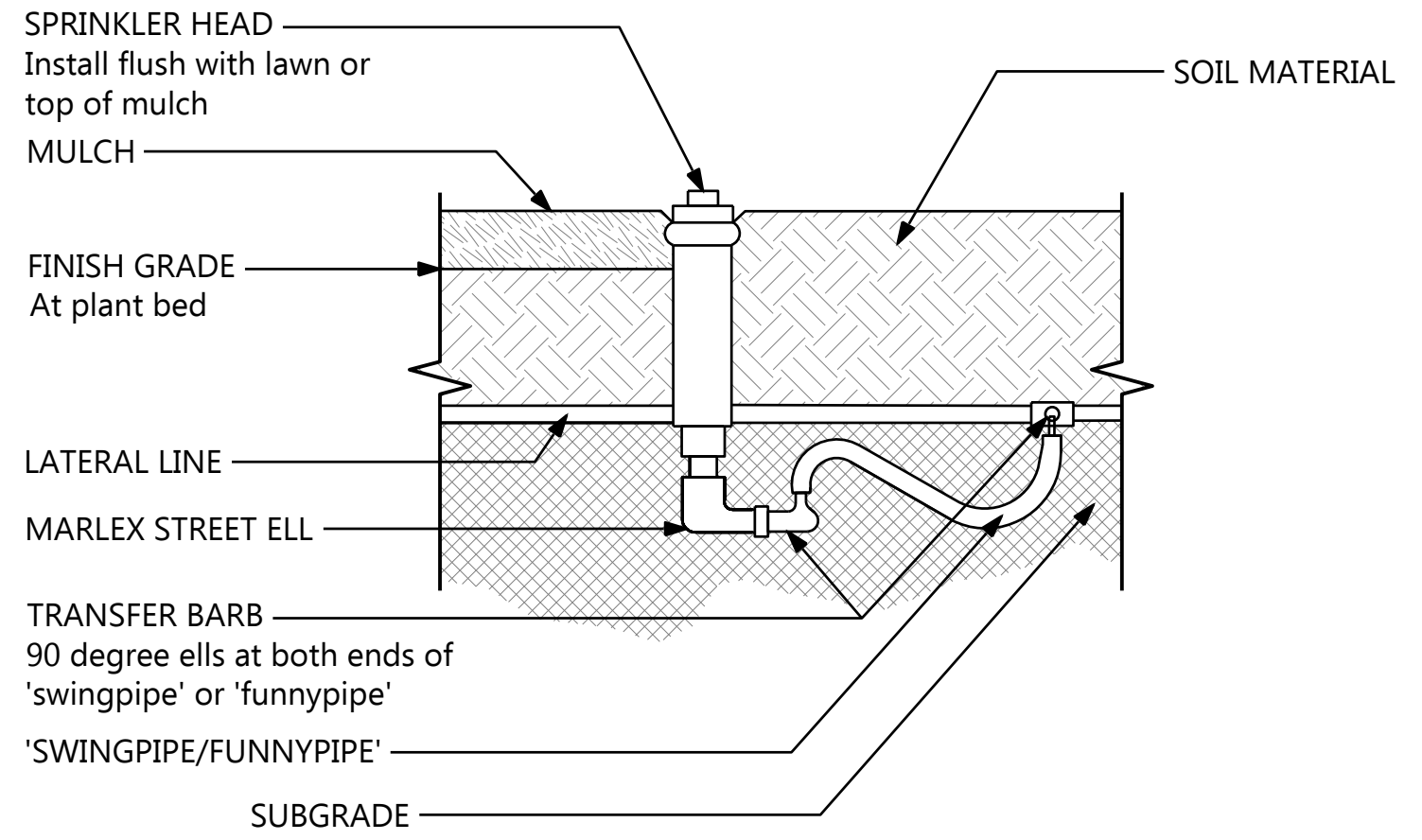


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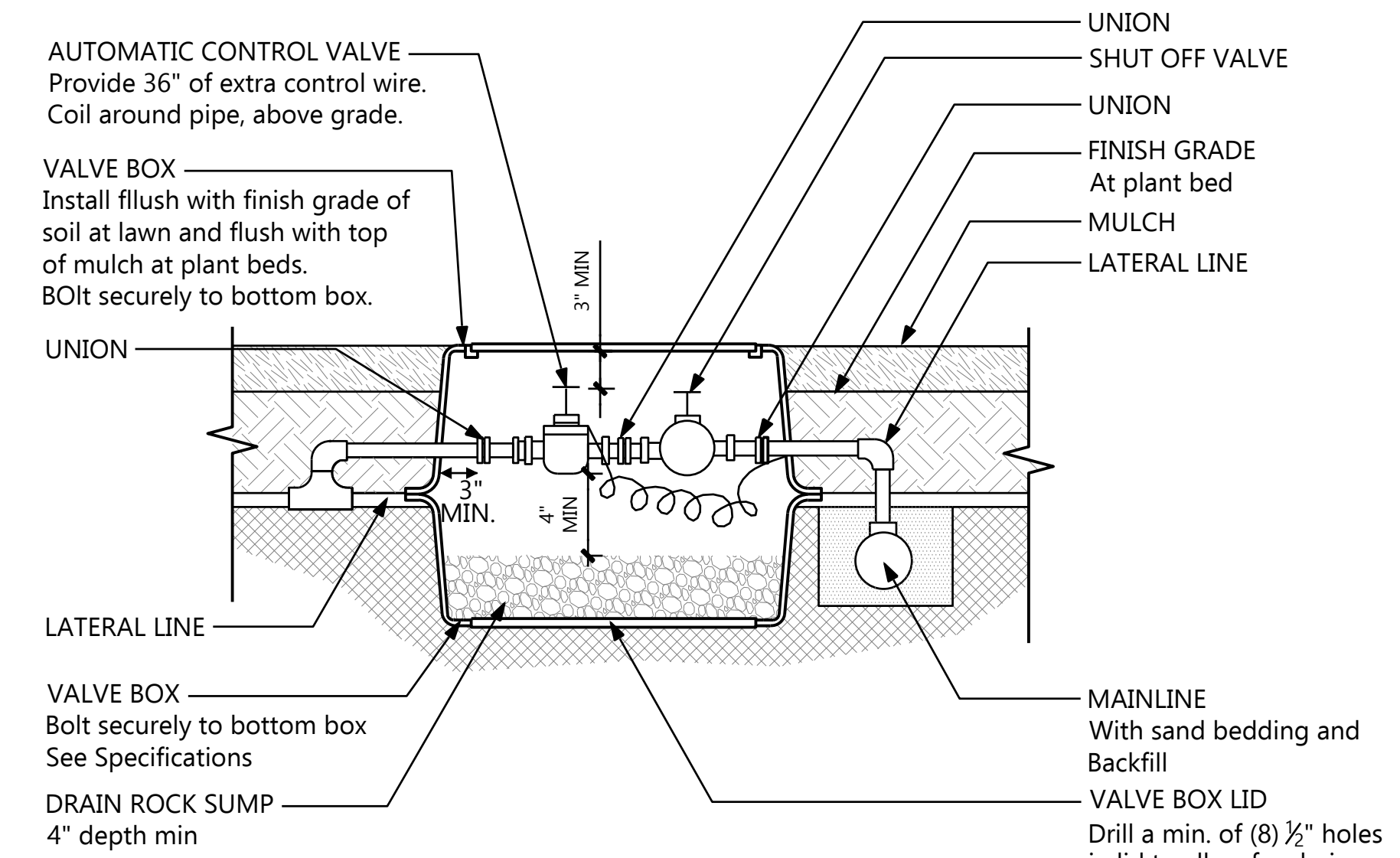
- NOTES**
1. Extend sleeves beyond pavement edge or back of curb as noted in specification. Cover open ends with duct tape
 2. Install 2 x 4 red-top, wood location stakes @ both ends of sleeves and leave 2" above top of curb or pavement.

IRRIGATION SLEEVES 5
NTS



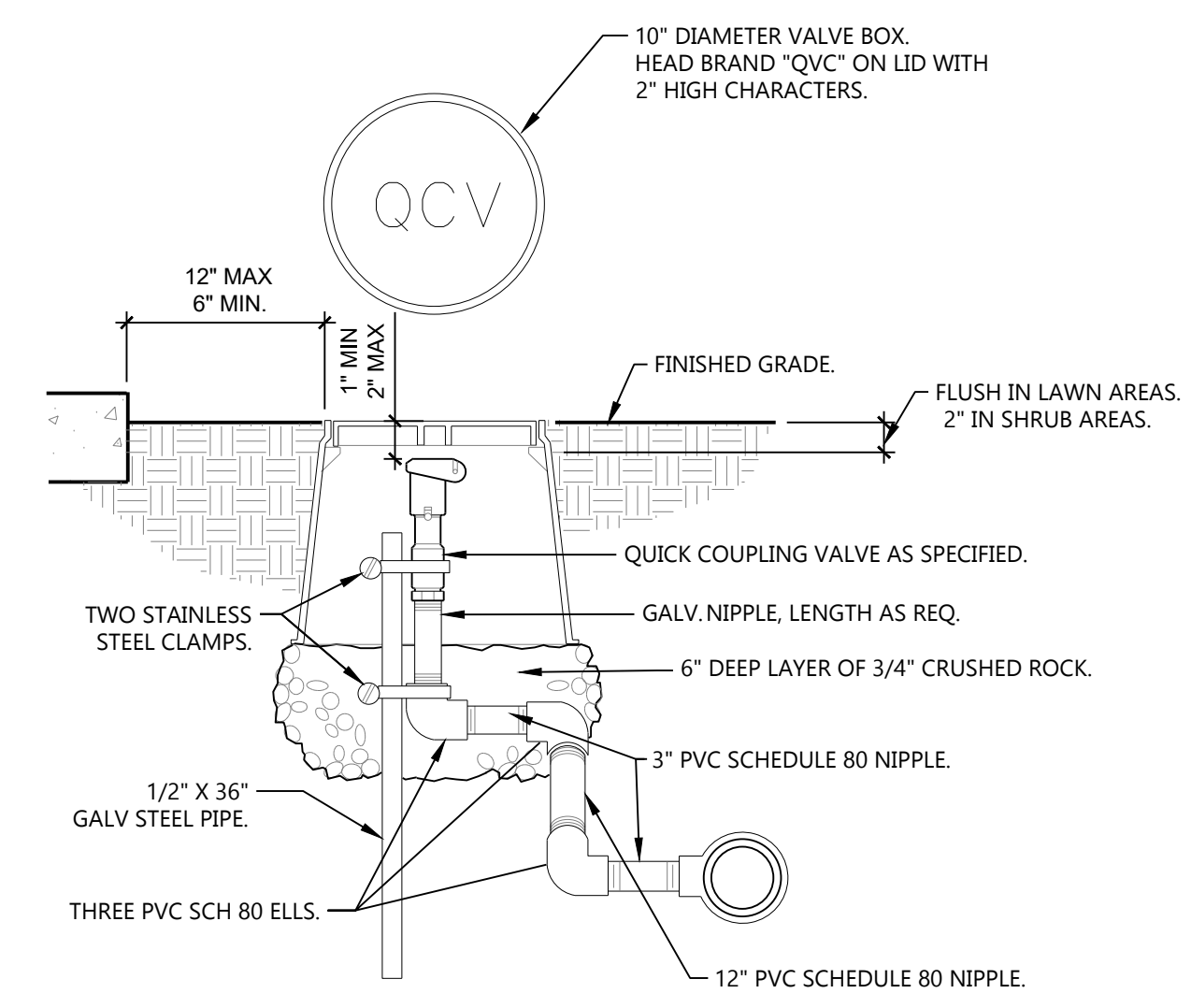
- NOTES**
1. Use teflon tape on all threaded pipe joints.
 2. Install sprinkler head 3 inches from pavement or curbs.

FLX RISER ASSEMBLY - NON-ROTOR TYPE HEADS 3
NTS

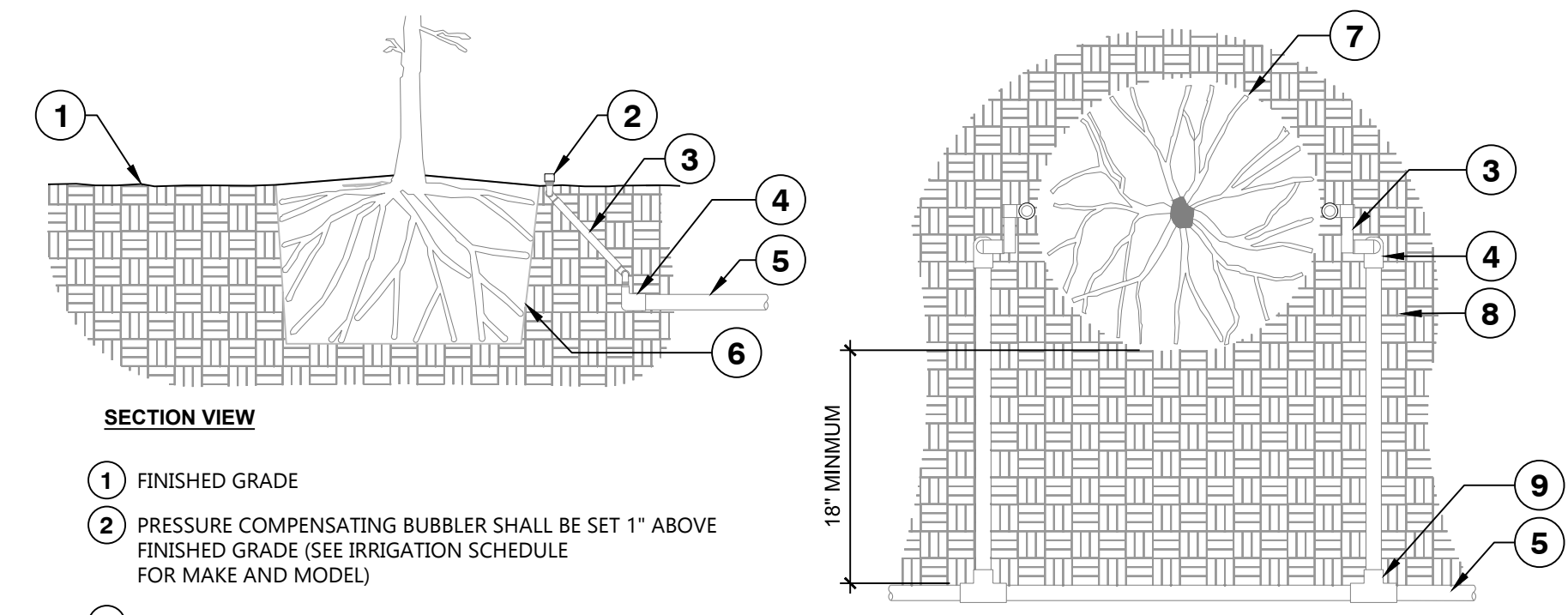


- NOTES**
1. Use teflon tape on all threaded joints.

ZONE VALVE ASSEMBLY 1
NTS



QUICK COUPLING VALVE IN BOX 4
P-IN-22.040-42 1 1/2" = 1'-0"



- SECTION VIEW**
- 1 FINISHED GRADE
 - 2 PRESSURE COMPENSATING BUBBLER SHALL BE SET 1" ABOVE FINISHED GRADE (SEE IRRIGATION SCHEDULE FOR MAKE AND MODEL)
 - 3 SWING JOINT, SEE DETAIL
 - 4 SCH. 40 PVC 90° ELBOW SLIP TO THREAD
 - 5 LATERAL LINE IRRIGATION (SEE IRRIGATION PLANS FOR SIZING)
 - 6 EDGE OF ROOT BALL. SETTLE BACKFILL SO IRRIGATION FLOWS THROUGH ROOT BALL
 - 7 EDGE OF ROOT BALL
 - 8 EXISTING OR MODIFIED SOIL (SEE SPECIFICATIONS FOR SOIL MODIFICATION)
 - 9 SCH. 40 PVC TEE OR 90° ELBOW
- PLAN VIEW**
- NOTES:**
1. ALL IRRIGATION FITTINGS SHALL BE SCH. 40 PVC UNLESS SPECIFIED OTHERWISE.
 2. ALL THREADED CONNECTIONS FROM SCH. 40 TO SCH. 80 PVC SHALL BE MADE USING TEFLON TAPE.
 3. CONTRACTOR SHALL SETTLE THE AREA AROUND THE BUBBLER AND EDGE OF THE ROOT BALL SO THAT ALL IRRIGATION FLOWS THROUGH THE ROOT BALL.

IRRIGATION BUBBLER (2) W/ LAYOUT 2
P-IN-22.040-88 3/4" = 1'-0"

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Landscape Architecture & Planning
160 E Broadway, Eugene, OR 97401
220 NW 8th Avenue, Portland OR 97209
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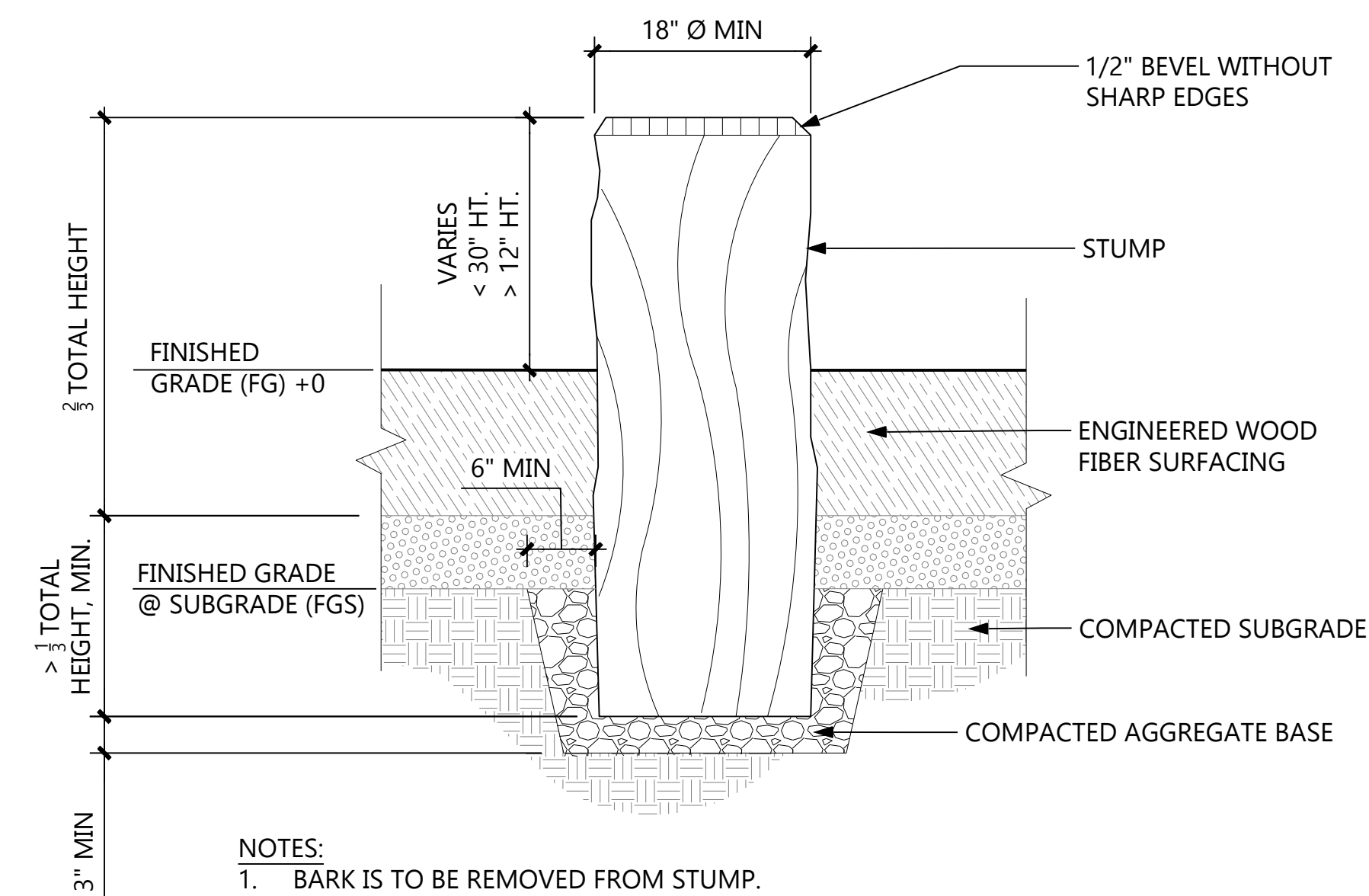
OSU CASCADES LITTLE KITS
BEND, OREGON
IRRIGATION
DETAILS

PROJECT 2122.14860.01
DATE 2/19/2024

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L400

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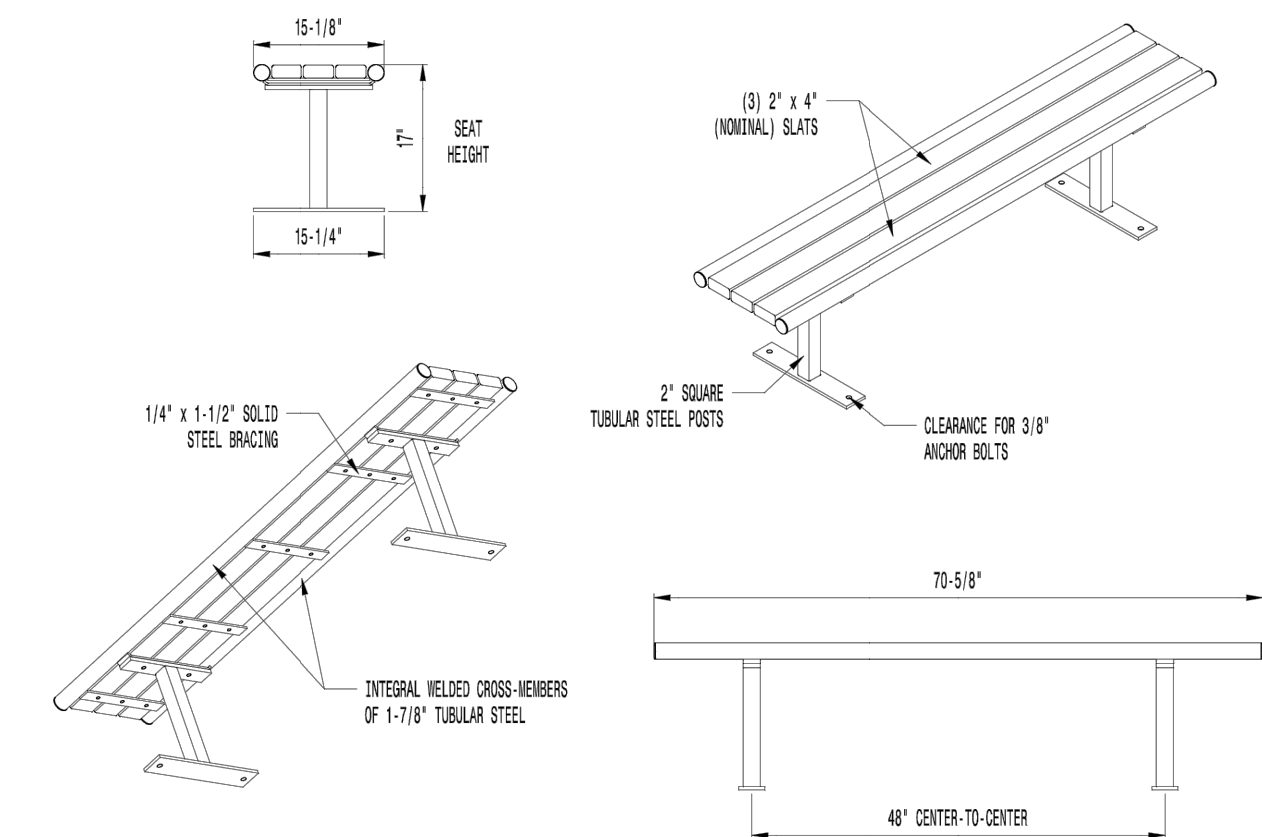


NOTES:

1. BARK IS TO BE REMOVED FROM STUMP.
2. STUMP SHALL BE TREATED WITH "TIMBER PRO UV WOOD STABILIZER" PER MANUFACTURE'S SPECIFICATIONS.
3. ALL CUT EDGES SHALL BE BEVELED OR ROUNDED SMOOTH.
4. STUMP TO BE PLACED IN AN ORIENTATION SO THAT WEIGHT AND CONFIGURATION WILL MINIMIZE THE POSSIBILITY OF MOVEMENT OR SHIFTING.
5. ALL STUMPS WILL BE FIELD FIT. LOCATIONS SHALL BE VERIFIED PRIOR TO FINAL INSTALLATION BY LANDSCAPE ARCHITECT.

LOG STEPPERS

NTS **4**



AVAILABLE OPTIONS:
 POWDER COATING
 10 STANDARD COLORS, 2 OPTIONAL METALLIC COLORS,
 CUSTOM COLORS (INCLUDING THE RAL RANGE)
 SLAT TYPES
 *WOOD: PHYLIPLINE BARKSHAW AND LPE
 SEE GREENSTES SERIES* FOR ALTERNATIVE SLAT OPTIONS

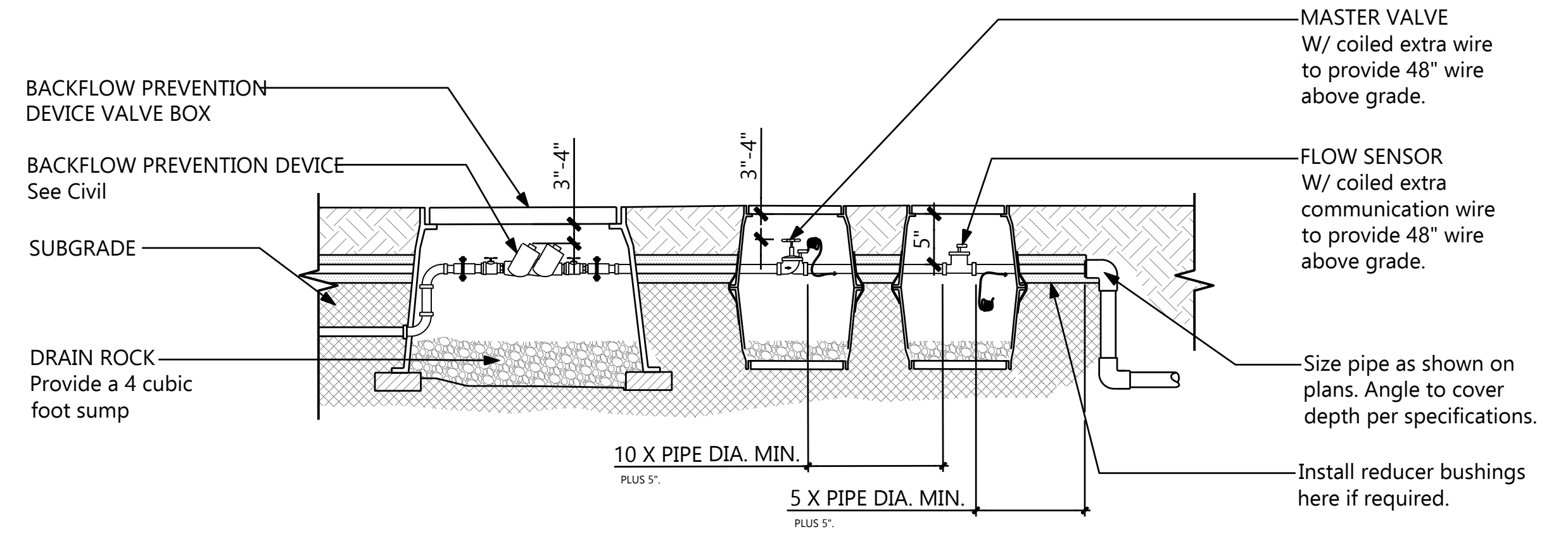
- NOTES:**
1. DRAWINGS NOT TO SCALE. DO NOT SCALE DRAWINGS.
 2. ALL FABRICATED METAL COMPONENTS ARE STEEL BRITBLASTED, ETCHED, PHOSPHATIZED, PREHEATED, AND ELECTROSTATICALLY POWDER-COATED WITH 1.6-1.8 MIL POLYESTER POWDER COATINGS. PRODUCTS ARE FULLY CLEANED AND PRETREATED, PREHEATED AND COATED WHILE HOT TO FILL CRACKS AND BULLY COATING FLOW. COATED PARTS ARE THOROUGHLY CURED TO MEET MANUFACTURER'S SPECIFICATIONS. THE THICKNESS OF THE RESULTING FINISH AVERAGES 8-10 MILS (200-250 MICRONS).
 3. IT IS NOT RECOMMENDED TO LOCATE ANCHOR BOLTS UNTIL BENCH IS IN PLACE. THIS VICTOR STANLEY, INC. PRODUCT MUST BE PERMANENTLY AFFIXED TO THE GROUND. CONSULT YOUR LOCAL CODES FOR REGULATIONS.
 4. ANCHOR BOLTS NOT PROVIDED BY VICTOR STANLEY, INC.
 5. FOR HIGH SALT ABUSIVE CLIMATES, HOT DIP GALVANIZING BEFORE POWDER COATING IS AVAILABLE. SEE WRITTEN SPECIFICATIONS FOR DETAILS.
 6. ALL SPECIFICATIONS ARE SUBJECT TO CHANGE. CONTACT MANUFACTURER FOR DETAILS.
 7. THIS PRODUCT IS SHIPPED PARTIALLY UNASSEMBLED.



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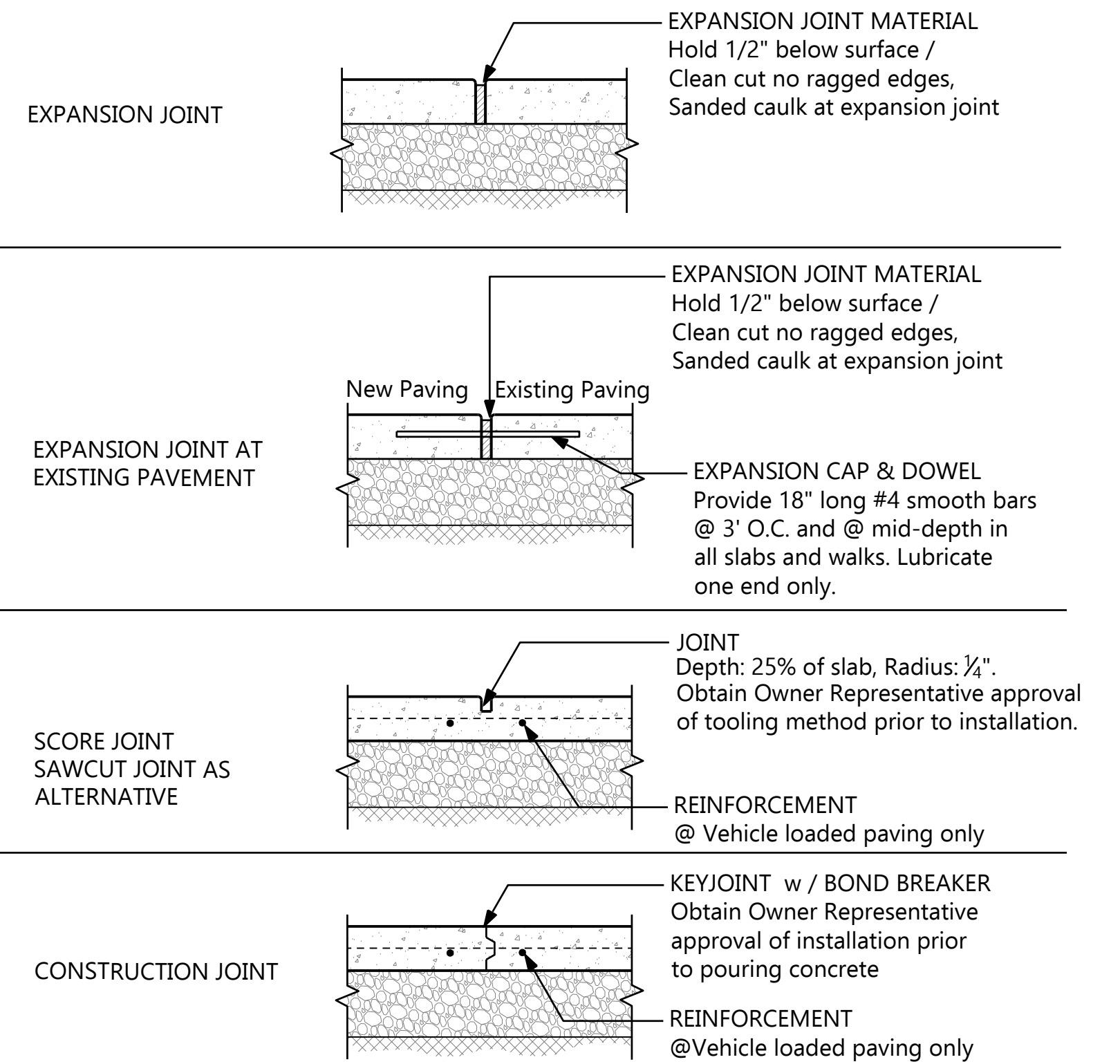
VICTOR STANLEY STANDARD WOOD SLAT BENCH

NTS **3**



BACKFLOW PREVENTER, MASTER VALVE, FLOW SENSOR

NTS **1**



NOTES

1. Locate joints where shown on Drawings and as Specified.
2. Provide sample of concrete joint finishing tools for approval of joint radius and depth.
3. Provide sanded caulk joint at all expansion joints. Coordinate color with Owner's Representative.

CONCRETE JOINTS

NTS **2**

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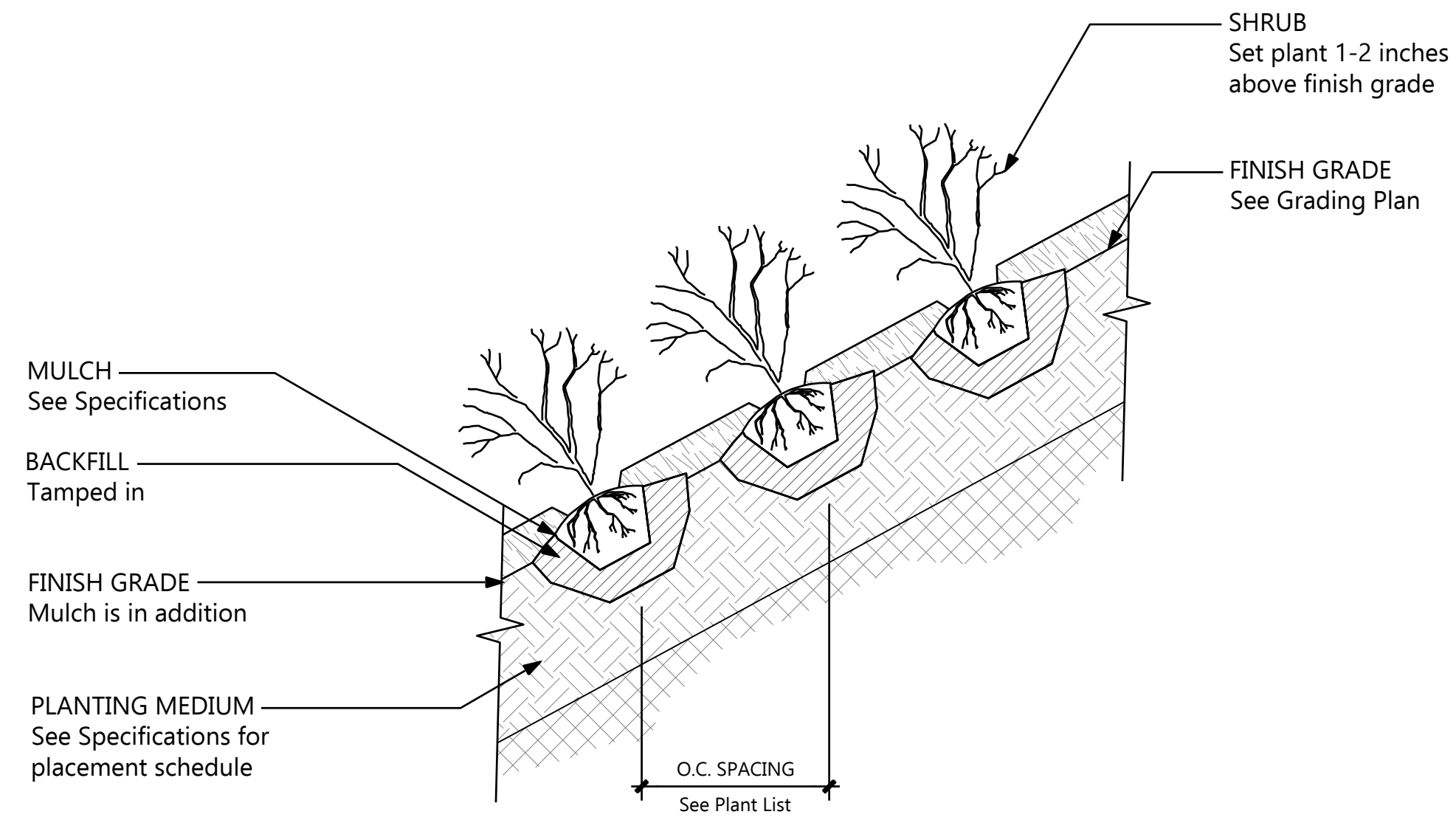
**OSU CASCADES LITTLE KITS
 BEND, OREGON
 IRRIGATION
 DETAILS**

PROJECT: 2122.14860.01
 DATE: 2/19/2024

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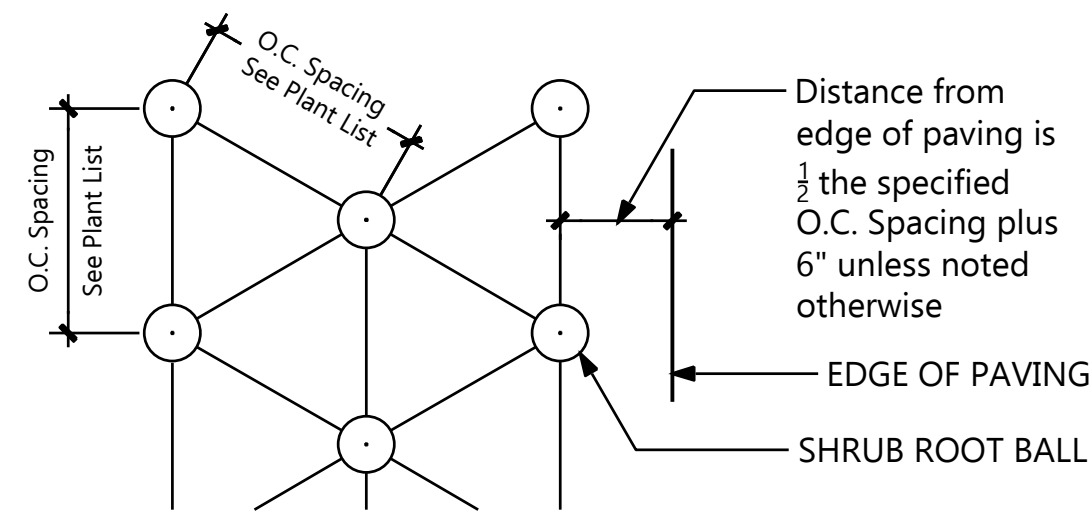
L401

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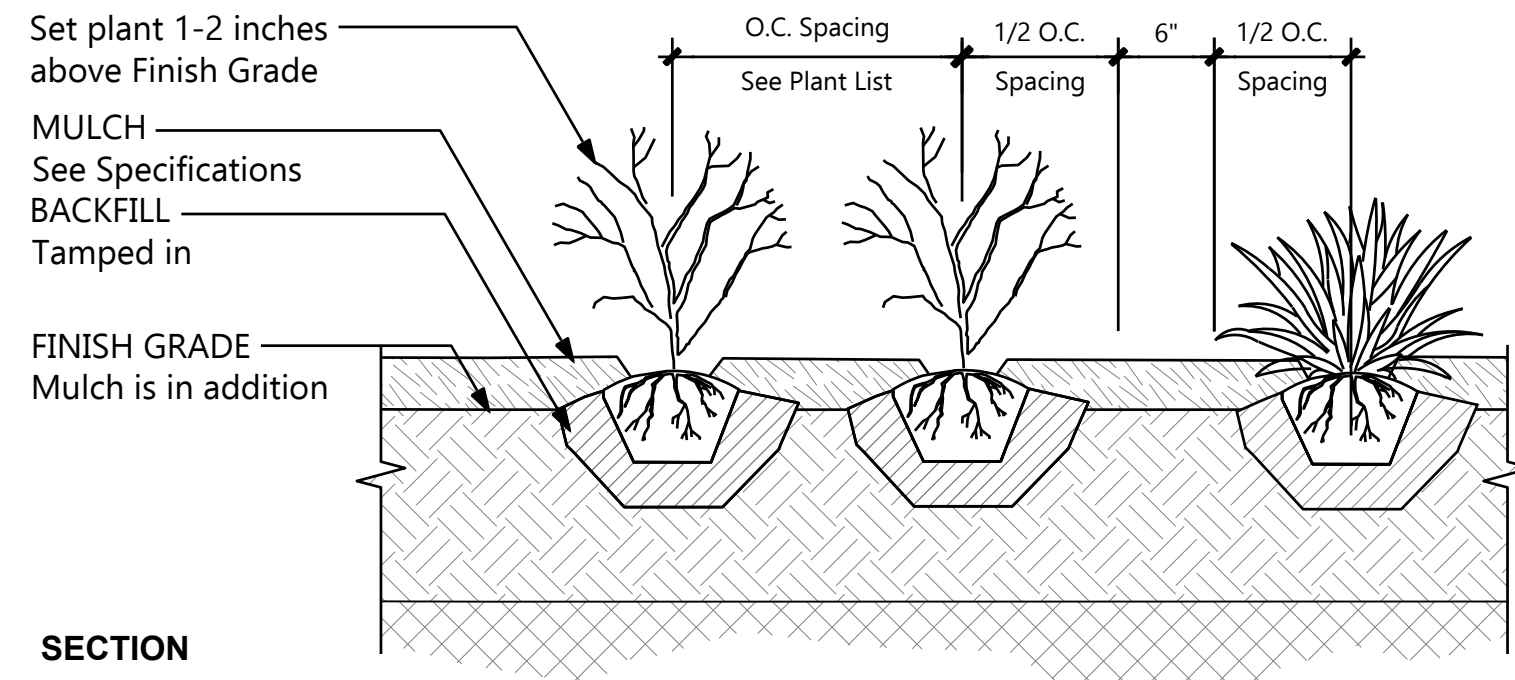


SHRUB PLANTING ON SLOPE

NTS 4



PLAN



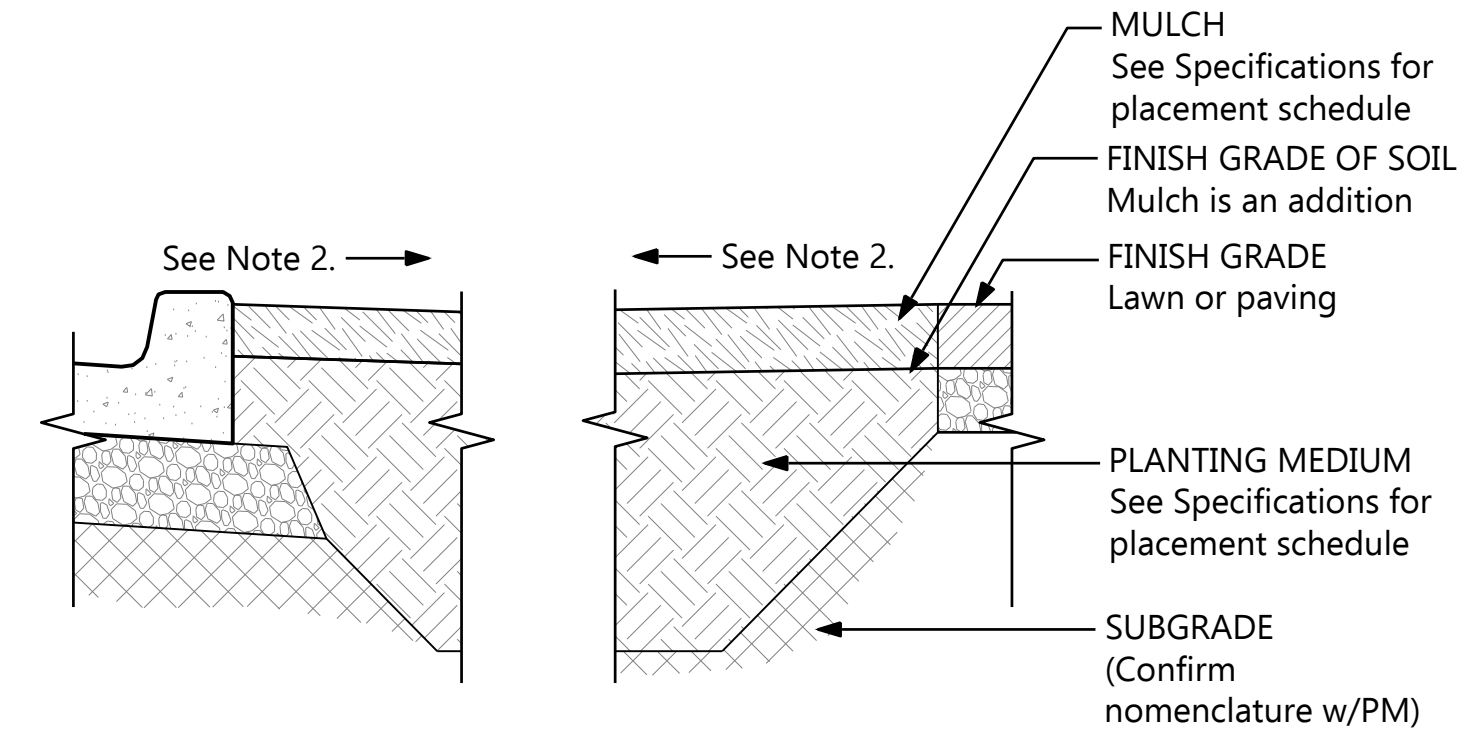
SECTION

NOTES

1. Allow additional spacing, minimum 6" + O.C. spacing, between plants of a different species. Cluster plants of same species while allowing extra space between plants of a different species. Coordinate with Owner's Representative prior to installation. See Specifications for mock-up requirements.

TRIANGULAR SHRUB SPACING DETAIL

NTS 5

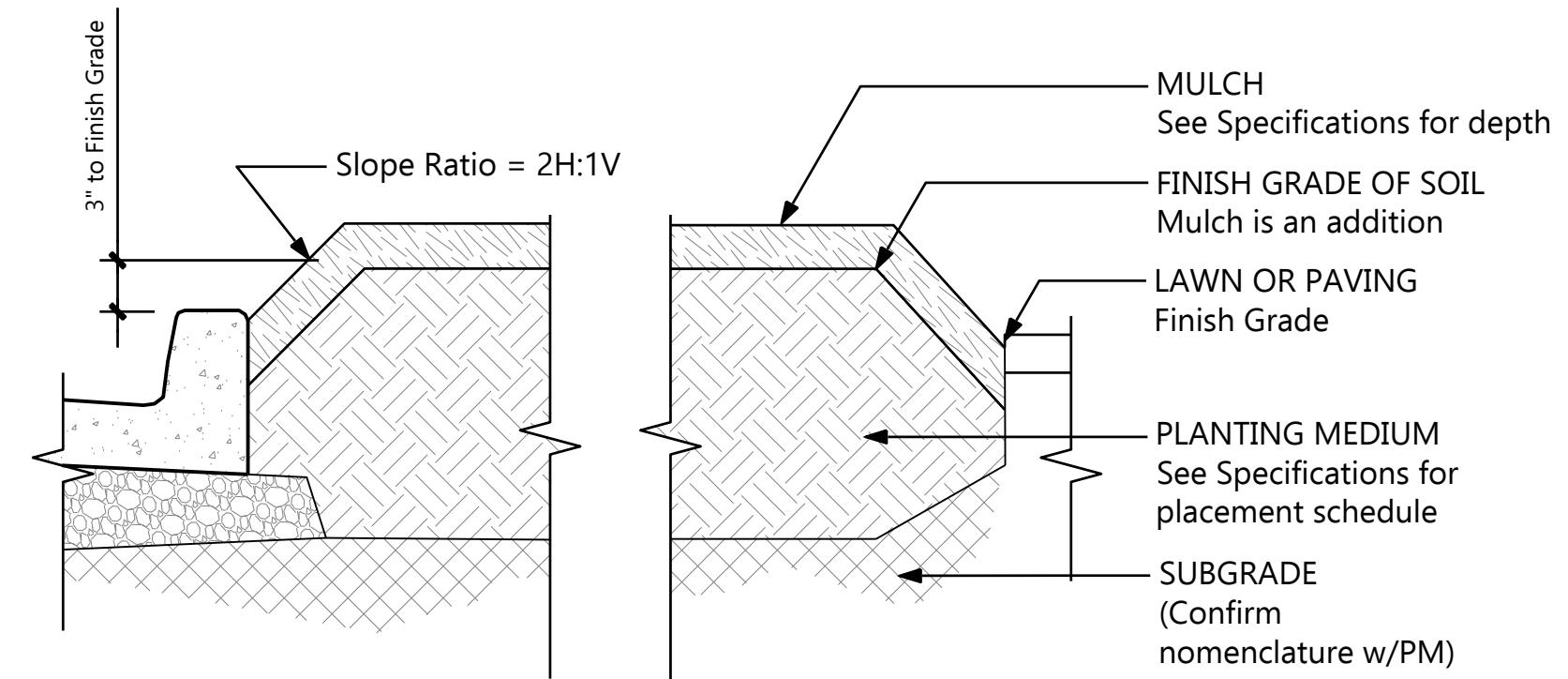


NOTES

1. Install soil/mulch to allow adjacent paved surface to drain into landscaped area.
2. Slope towards drainage structure or facility.

PLANT BED PROFILE BELOW GRADE

NTS 1

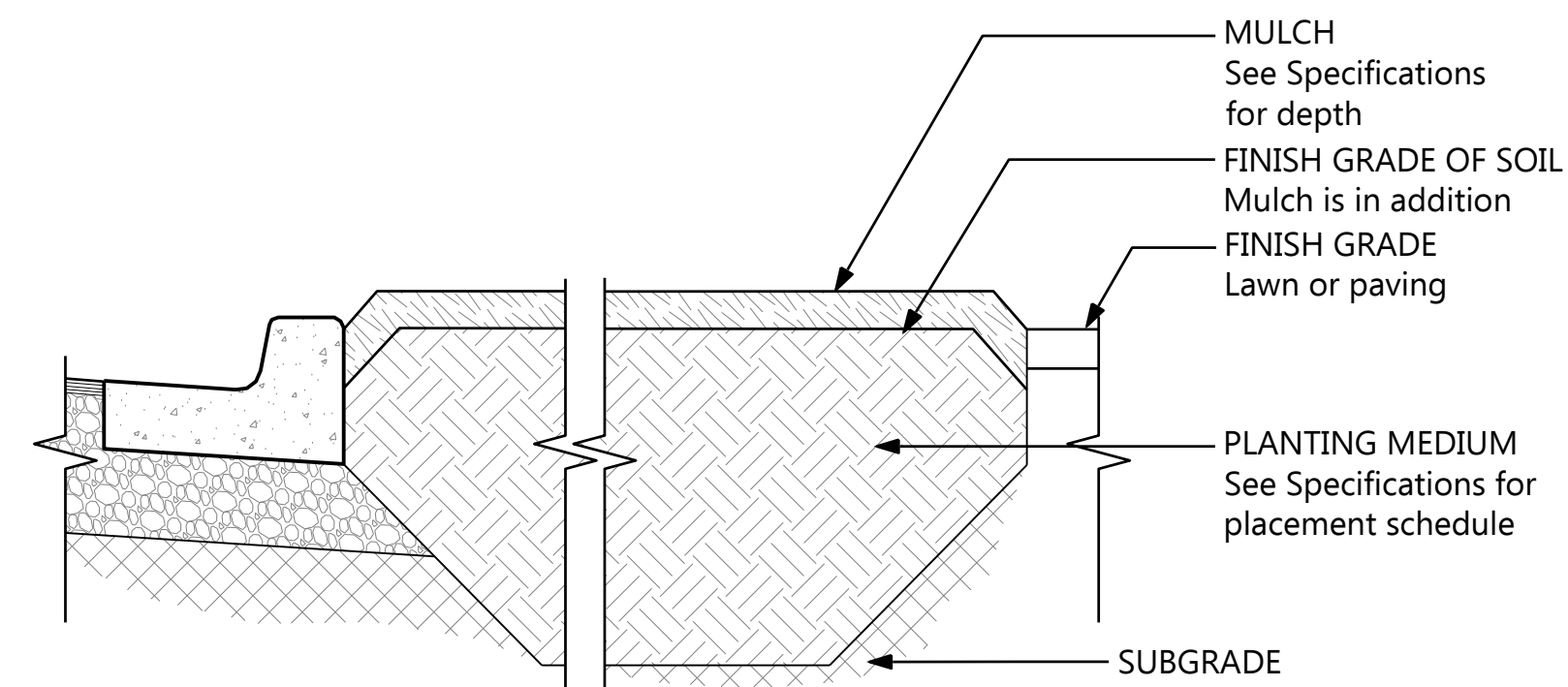


NOTES:

1. Finish grade, unless specifically identified otherwise, is comprised of a horizontal plane 3" above highest adjacent edge

PLANT BED PROFILE ABOVE GRADE

NTS 2



NOTES

1. Finish Grade of soil material to be flush with adjacent paving. Mulch is in addition.

PLANT BED PROFILE AT GRADE

NTS 3

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OSU CASCADES LITTLE KITS
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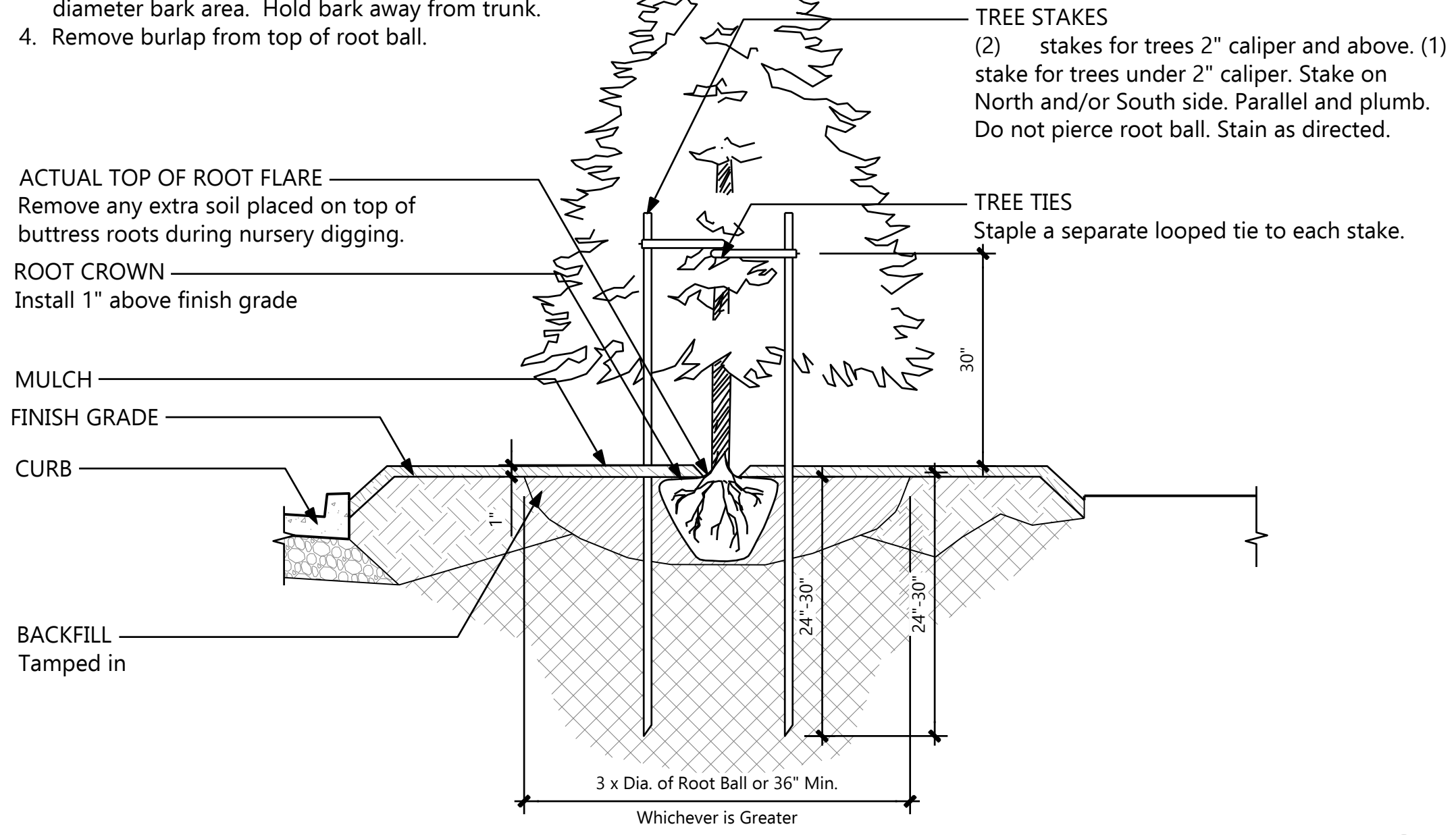
PROJECT	2122.14860.01
DATE	2/19/2024

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L402

NOTES

1. Trees planted too deeply will not be accepted.
2. Remove tree ties and stakes one year after planting unless directed otherwise.
3. Provide trees planted in lawn with minimum 5 foot diameter bark area. Hold bark away from trunk.
4. Remove burlap from top of root ball.

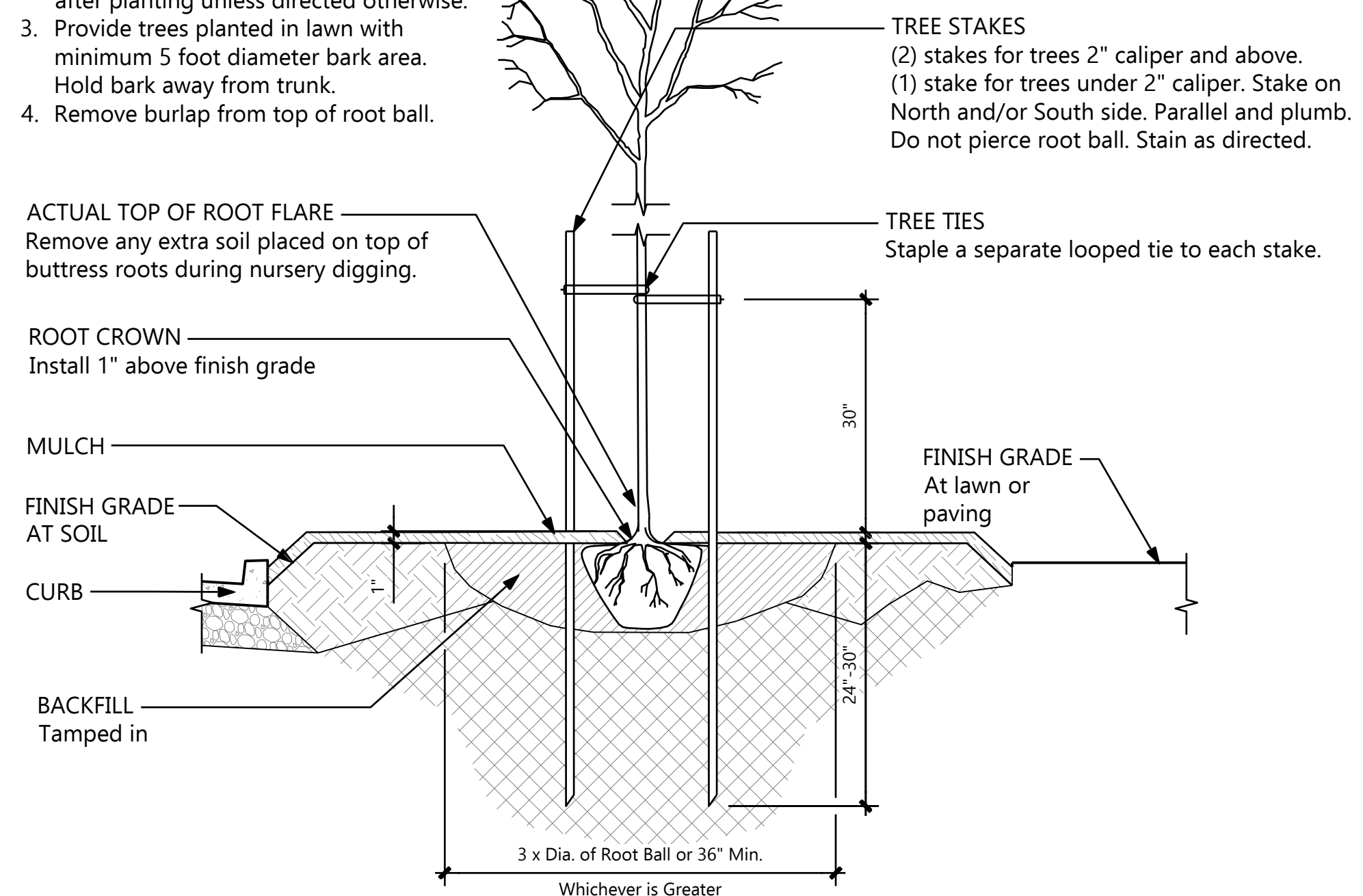


CONIFEROUS TREE PLANTING

NTS **3**

NOTES

1. Trees planted too deeply will not be accepted.
2. Remove tree ties and stakes one year after planting unless directed otherwise.
3. Provide trees planted in lawn with minimum 5 foot diameter bark area. Hold bark away from trunk.
4. Remove burlap from top of root ball.

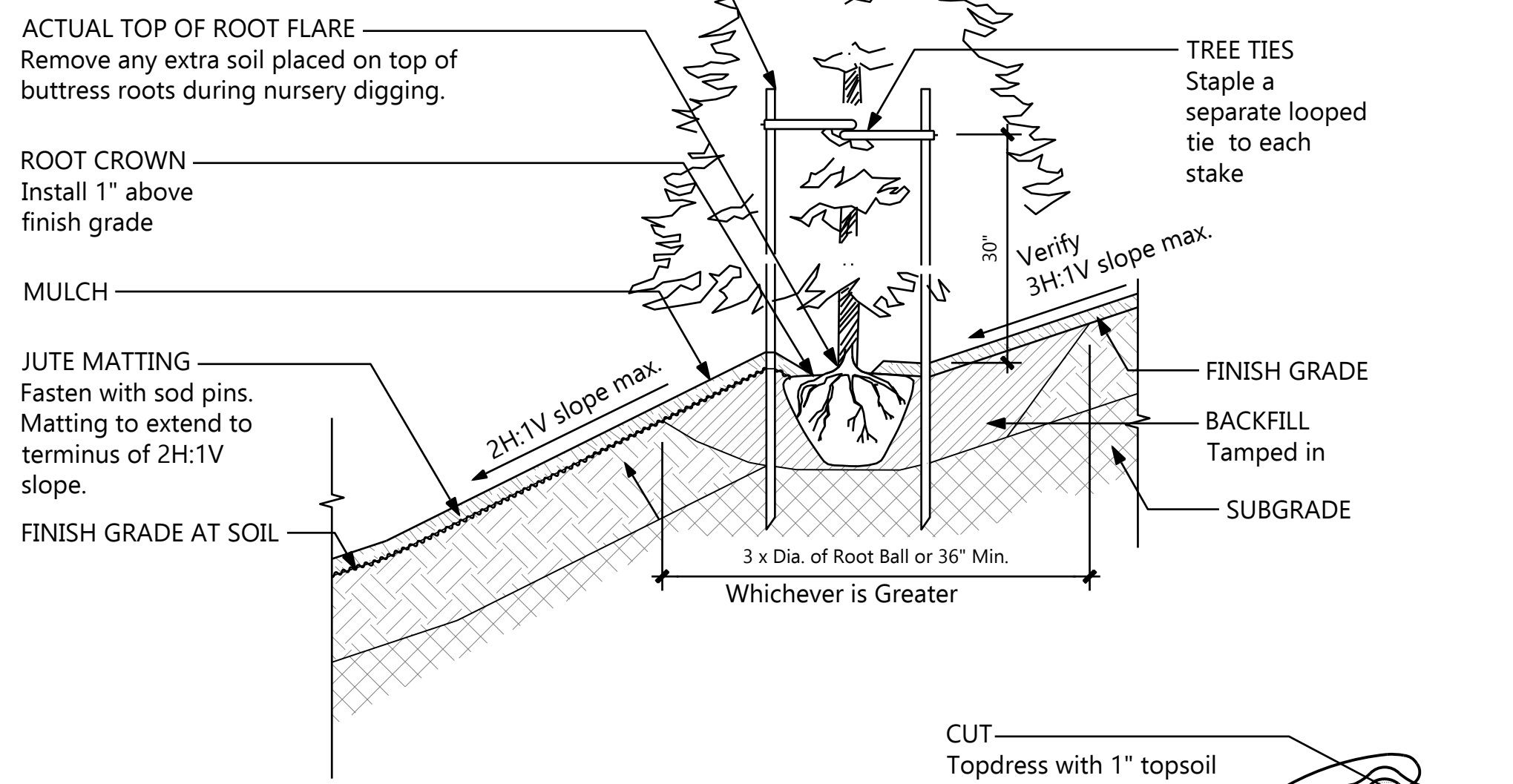


DECIDUOUS TREE PLANTING

NTS **1**

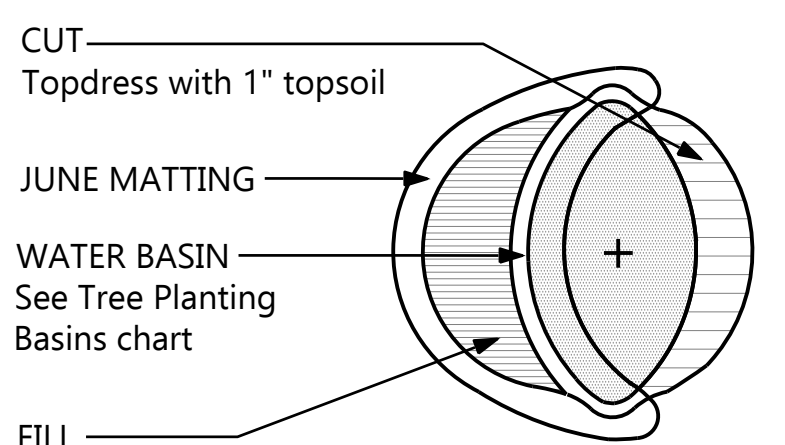
- TREE STAKES
 (2) stakes for trees 2" caliper and above.
 (1) stake for trees under 2" caliper. Stake on North and/or South side. Parallel and plumb. Do not pierce root ball. Stain as directed.

Tree Size	Width	Length
2"-2 1/2" cal.	3 feet	6 feet
1" cal.	2 feet	4 feet



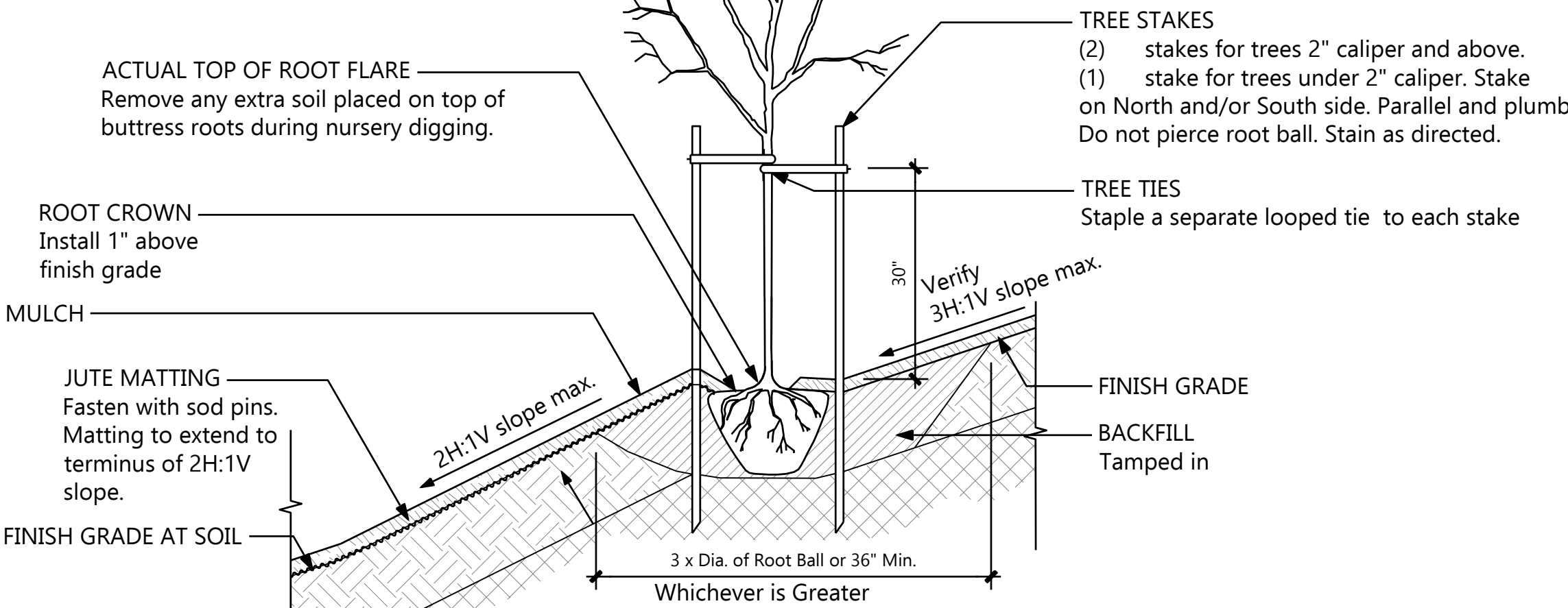
NOTES

1. Trees planted too deeply will not be accepted.
2. Remove tree ties and stakes one year after planting unless directed otherwise.
3. Provide trees planted in lawn with minimum 5 foot diameter bark area. Hold bark away from trunk.
4. Remove burlap from top of root ball.



CONIFEROUS TREE PLANTING ON SLOPE

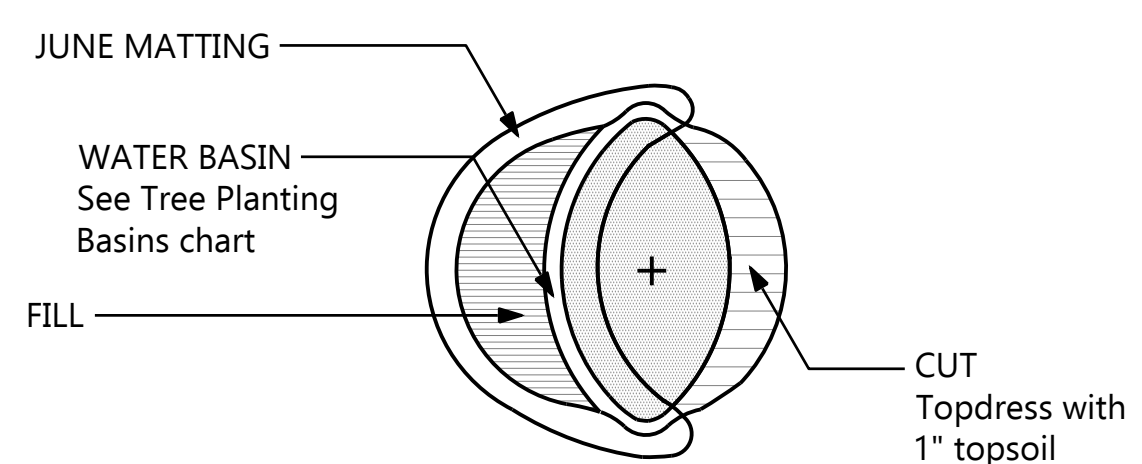
NTS **4**



Tree Size	Width	Length
2"-2 1/2" cal.	3 feet	6 feet
1" cal.	2 feet	4 feet

NOTES

1. Trees planted too deeply will not be accepted.
2. Remove tree ties and stakes one year after planting unless directed otherwise.
3. Provide trees planted in lawn with minimum 5 foot diameter bark area. Hold bark away from trunk.
4. Remove burlap from top of root ball.



TREE PLANTING ON SLOPE

NTS **2**

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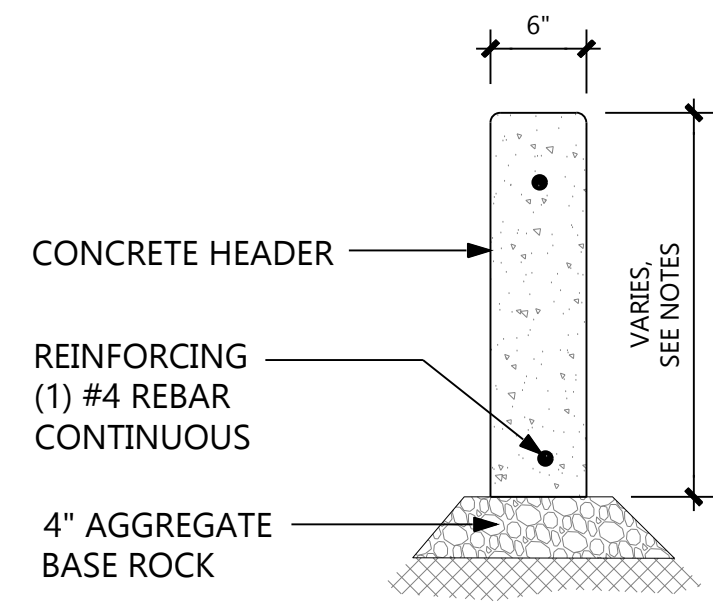
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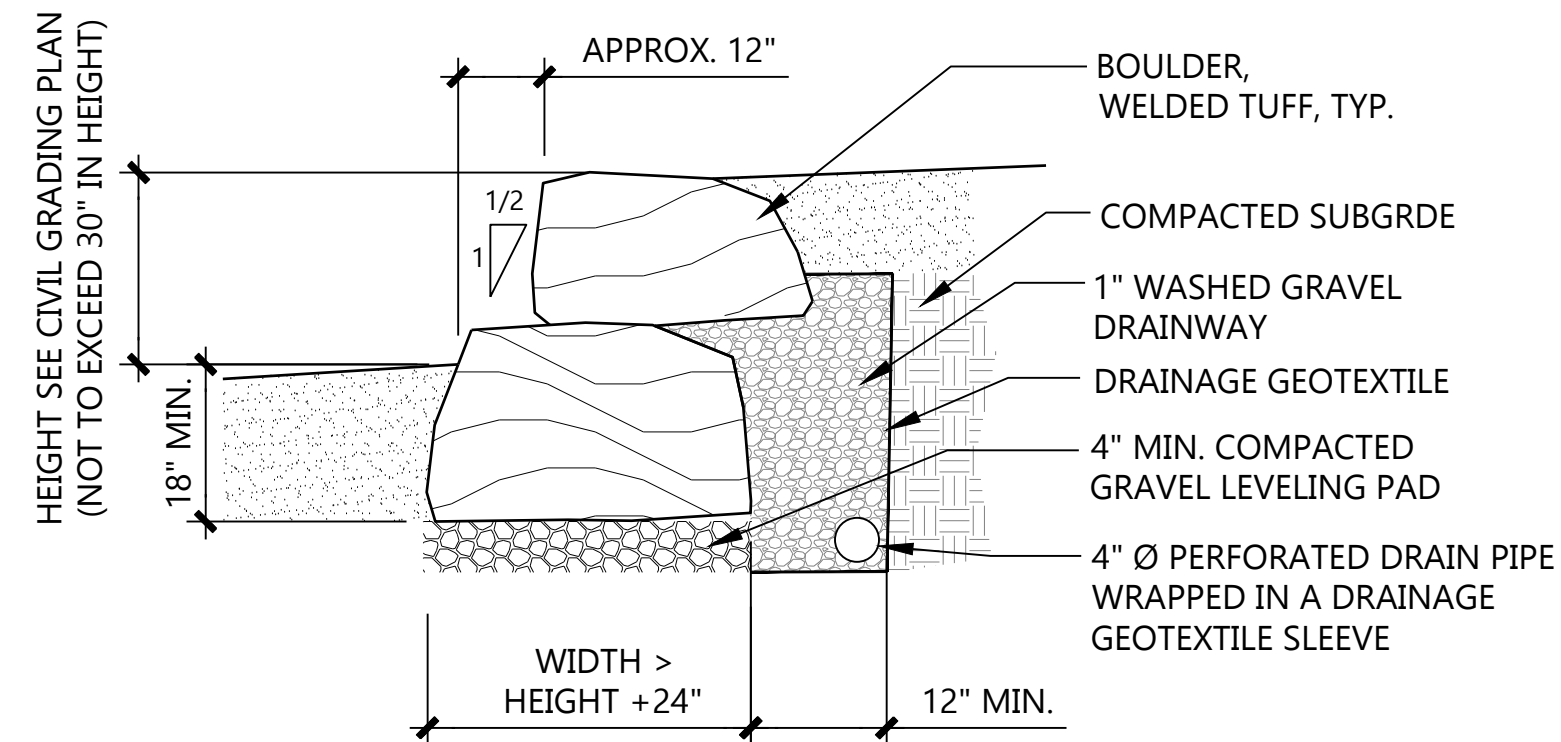
L403



- NOTES**
1. Provide expansion joints @ 100' o.c. max and @ all points of tangency.
 2. Sawcut green control joints @ 20' o.c.
 3. Construct 1/4 inch radius at edge of paving.
 4. Depth of containment curb to be coordinated with depth of any required fence posts footings. See 1/L405.

CONTAINMENT CURB

NTS **6**

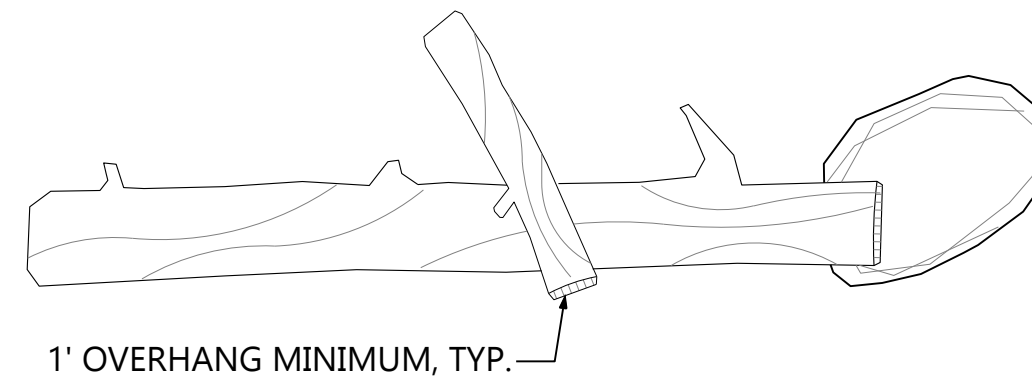


- NOTES:**
1. BOULDERS SHALL BE 30" DIAMETER MINIMUM.
 2. PLACE EACH ROCK INDIVIDUALLY BY EQUIPMENT SUITABLE FOR LIFTING, MANIPULATING, AND PLACING ROCKS OF THE SIZE AND SHAPE SPECIFIED. ENSURE THAT EACH ROCK IS FIRMLY SET AND SUPPORTED BY UNDERLYING MATERIALS AND ADJACENT ROCKS. REPOSITION OR REPLACE LOOSE ROCK.
 3. DAYLIGHT PERFORATED DRAIN PIPE AT WALL EXTENTS WITH A SLOTTED CAP.
 4. ALL FINISH GRADES ARE NOTED ON CIVIL'S GRADING PLAN.

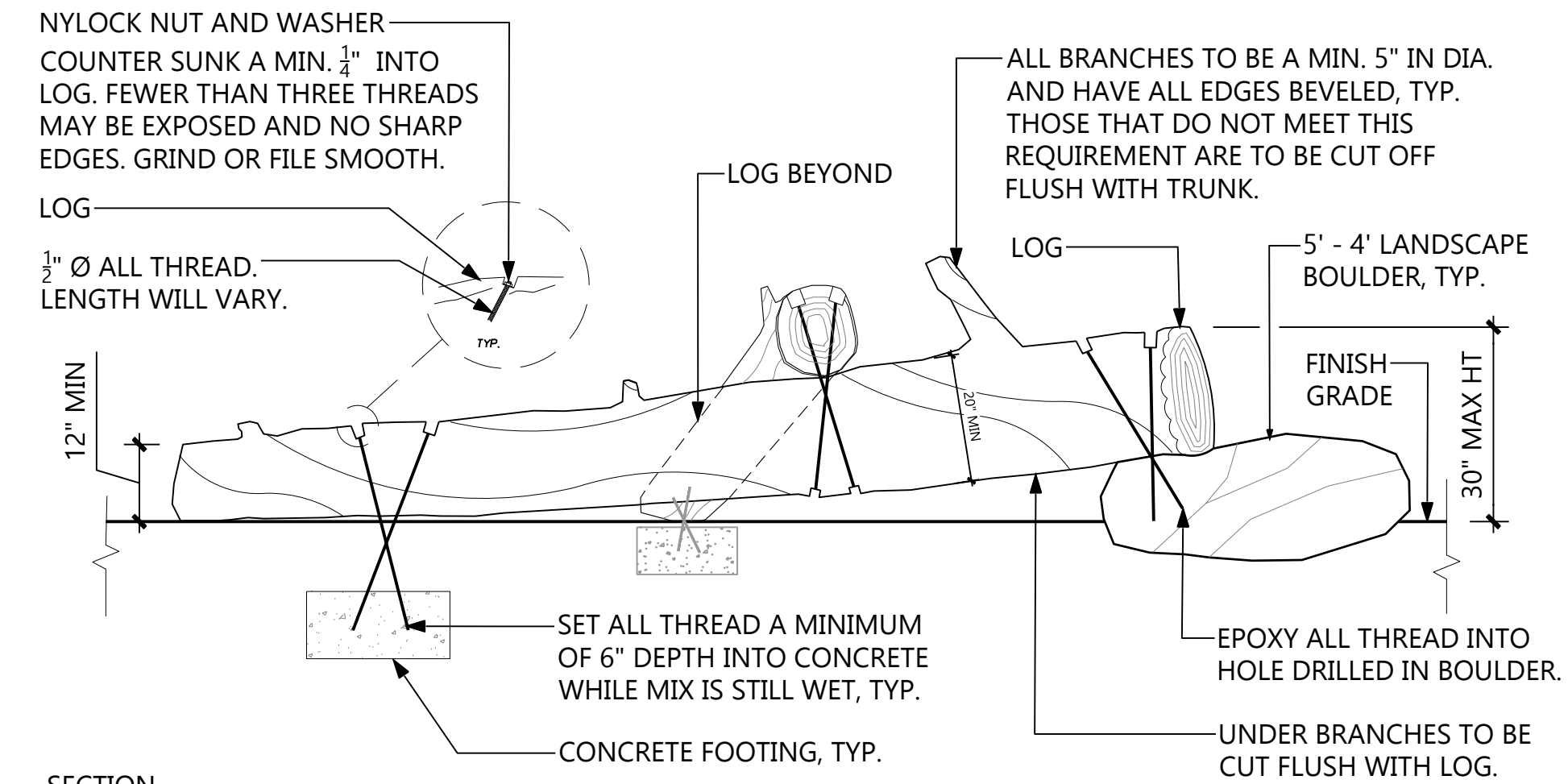
BOULDER GRAVITY WALL

NTS **4**

DETAIL SHOWN IS BASIS OF DESIGN



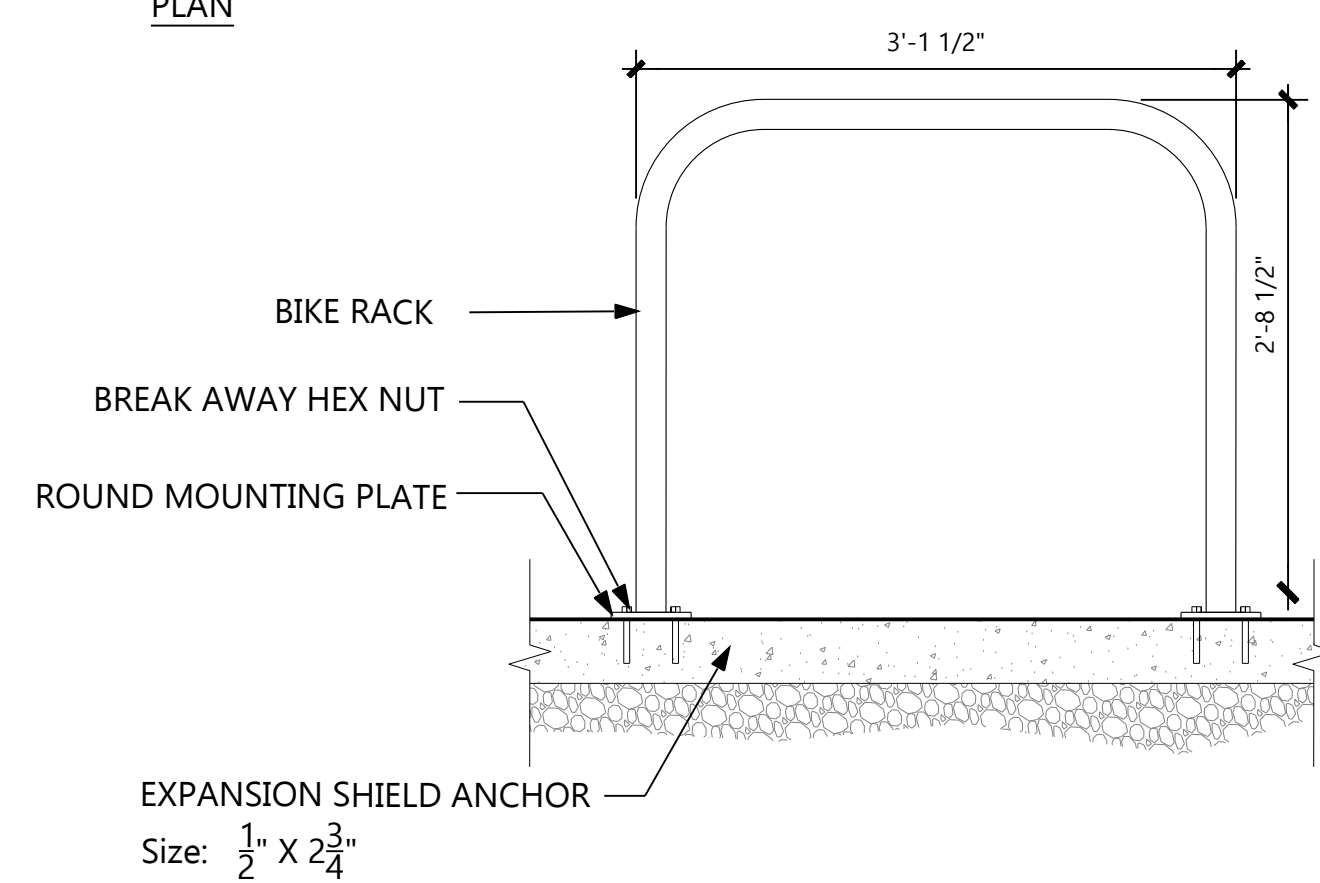
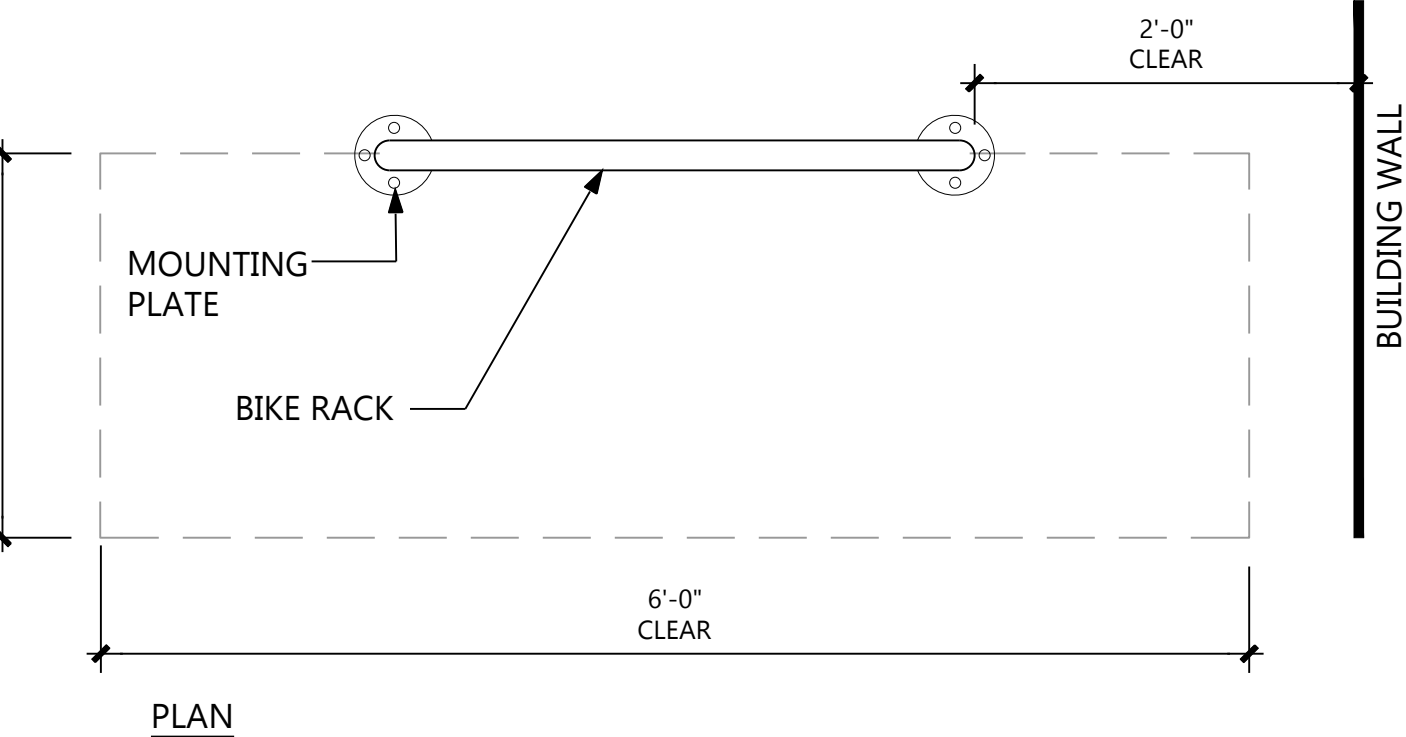
1' OVERHANG MINIMUM, TYP. PLAN CHARACTER IMAGE



SECTION

LOG SCRAMBLE

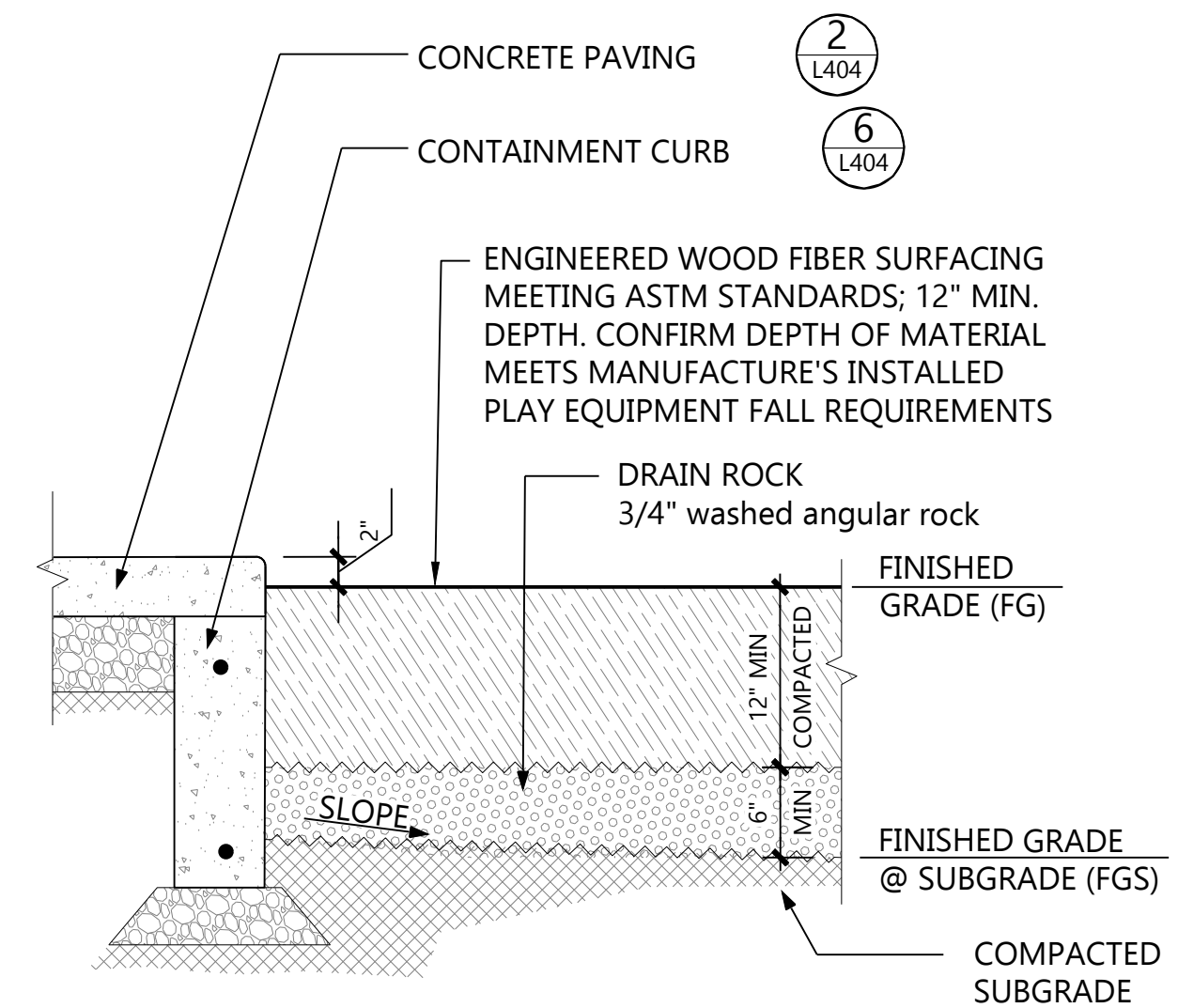
NTS **1**



- NOTES**
1. Bike Rack: To Be Supplied by Owner
 2. Refer to manufacturer's information for installation instructions.
 3. All racks to be installed with a 2'-0" clear space. All racks placed side by side shall be 4' O.C. All racks to have minimum 2'-0" clearspace between rack and building.
 4. Bike racks to field located and approved by landscape architect prior to installation.

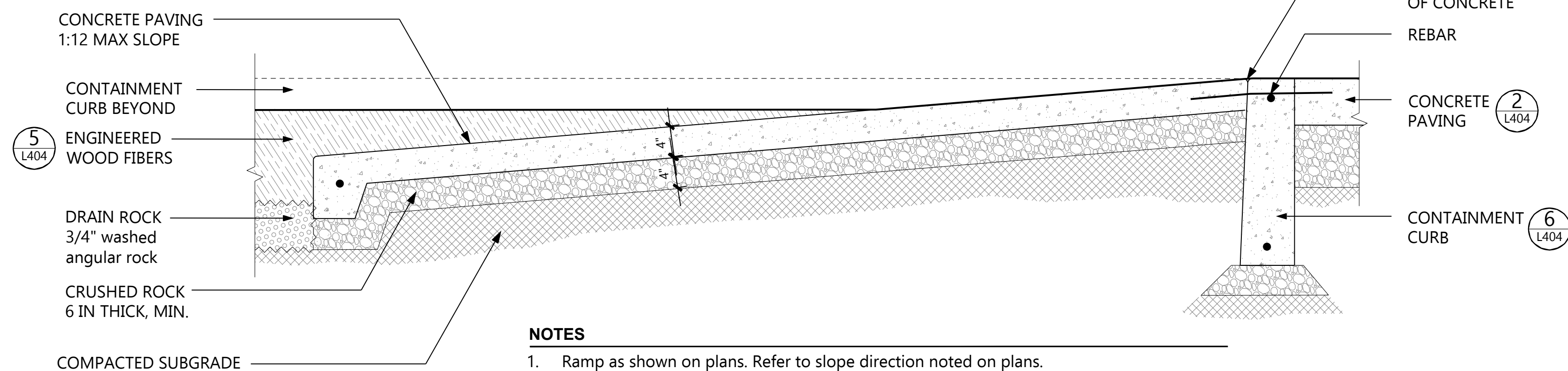
BIKE RACK

NTS **7**



WOOD CHIPS AT PLAY AREA - TYPE 1

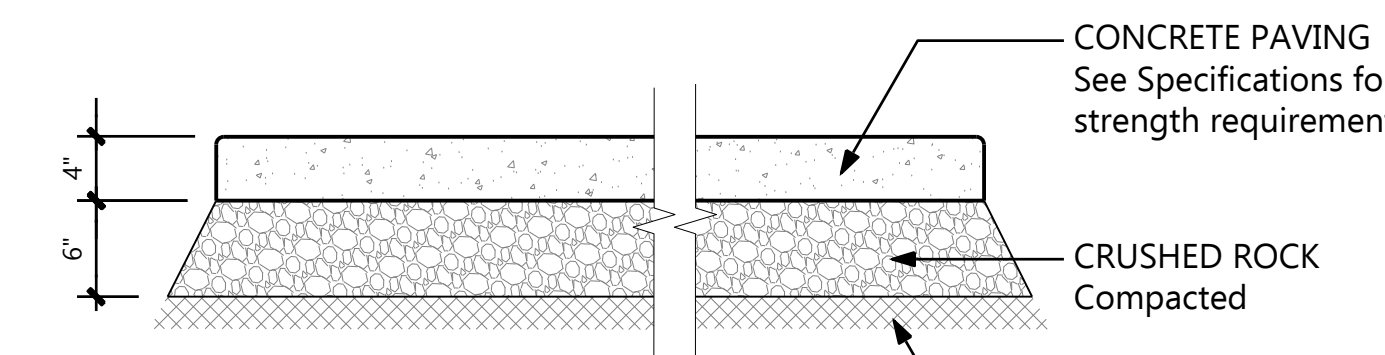
NTS **00**



- NOTES**
1. Ramp as shown on plans. Refer to slope direction noted on plans.

RAMP INTO PLAYGROUND

NTS **3**

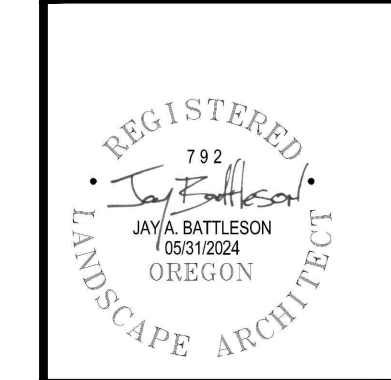


- NOTES**
1. See specifications for concrete finish.
 2. Construct 1/2 inch radius at edge of paving.

CONCRETE PAVING - STANDARD PROFILE

NTS **2**

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BEND, OREGON
SITE
DETAILS

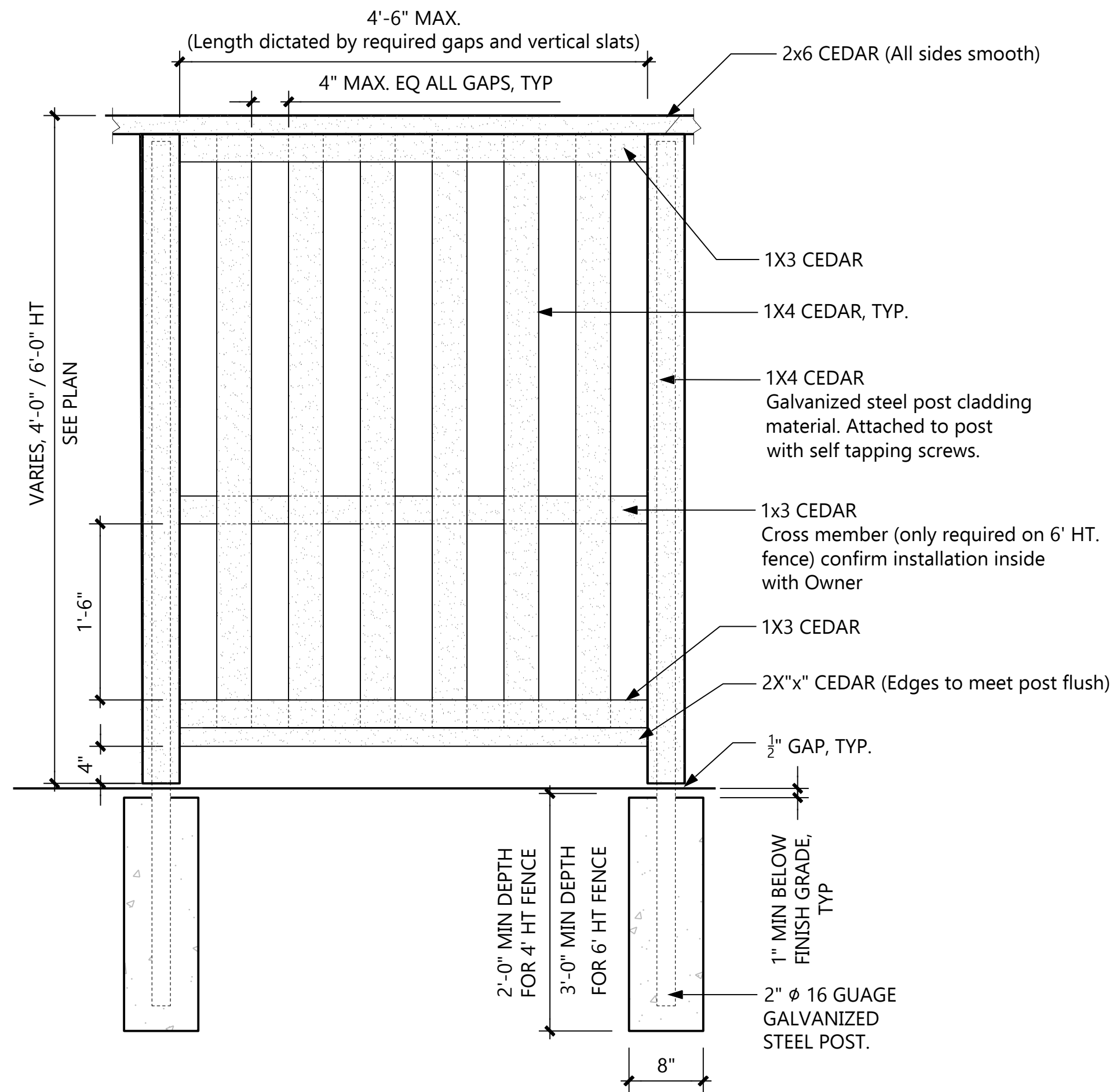
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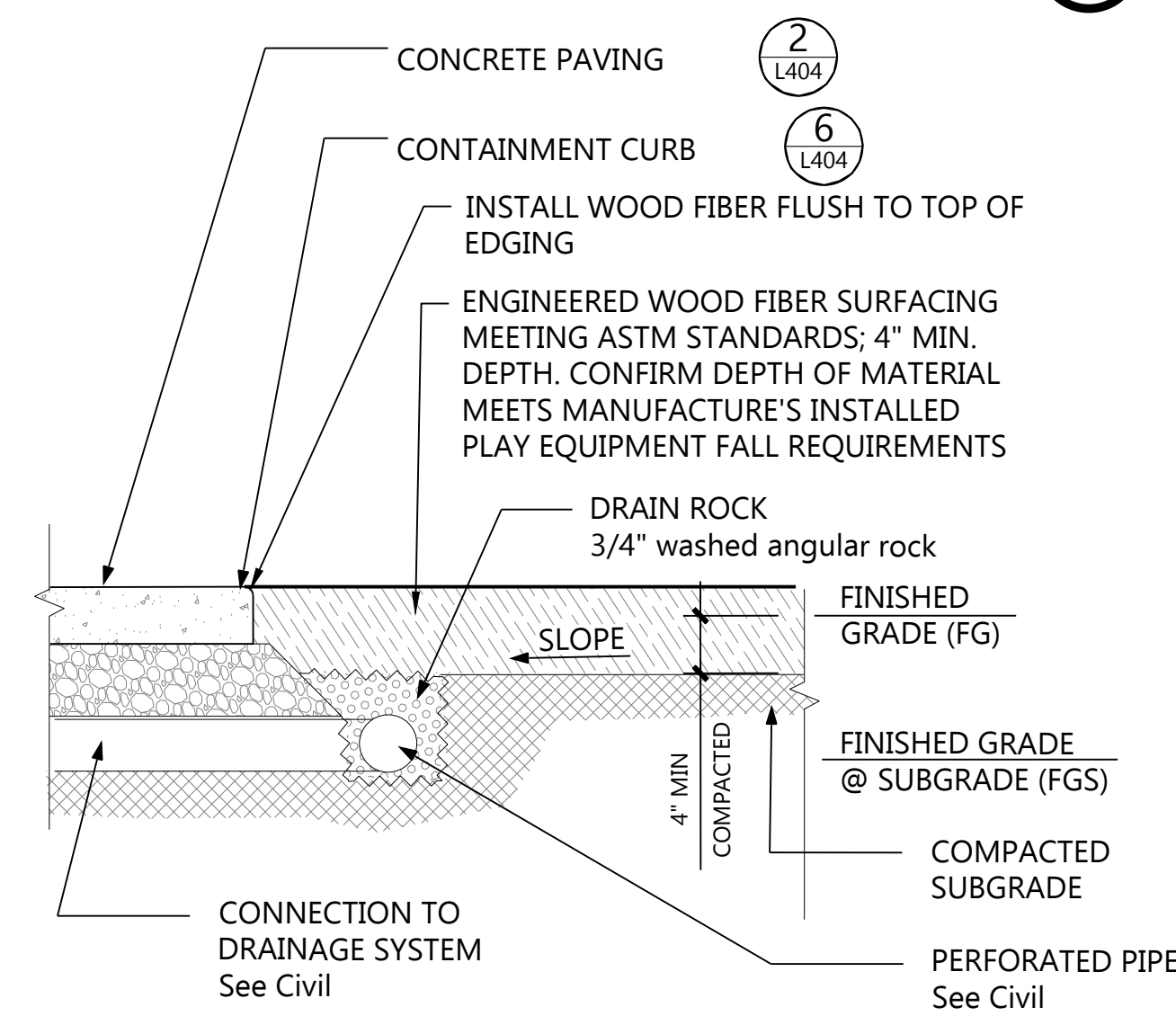
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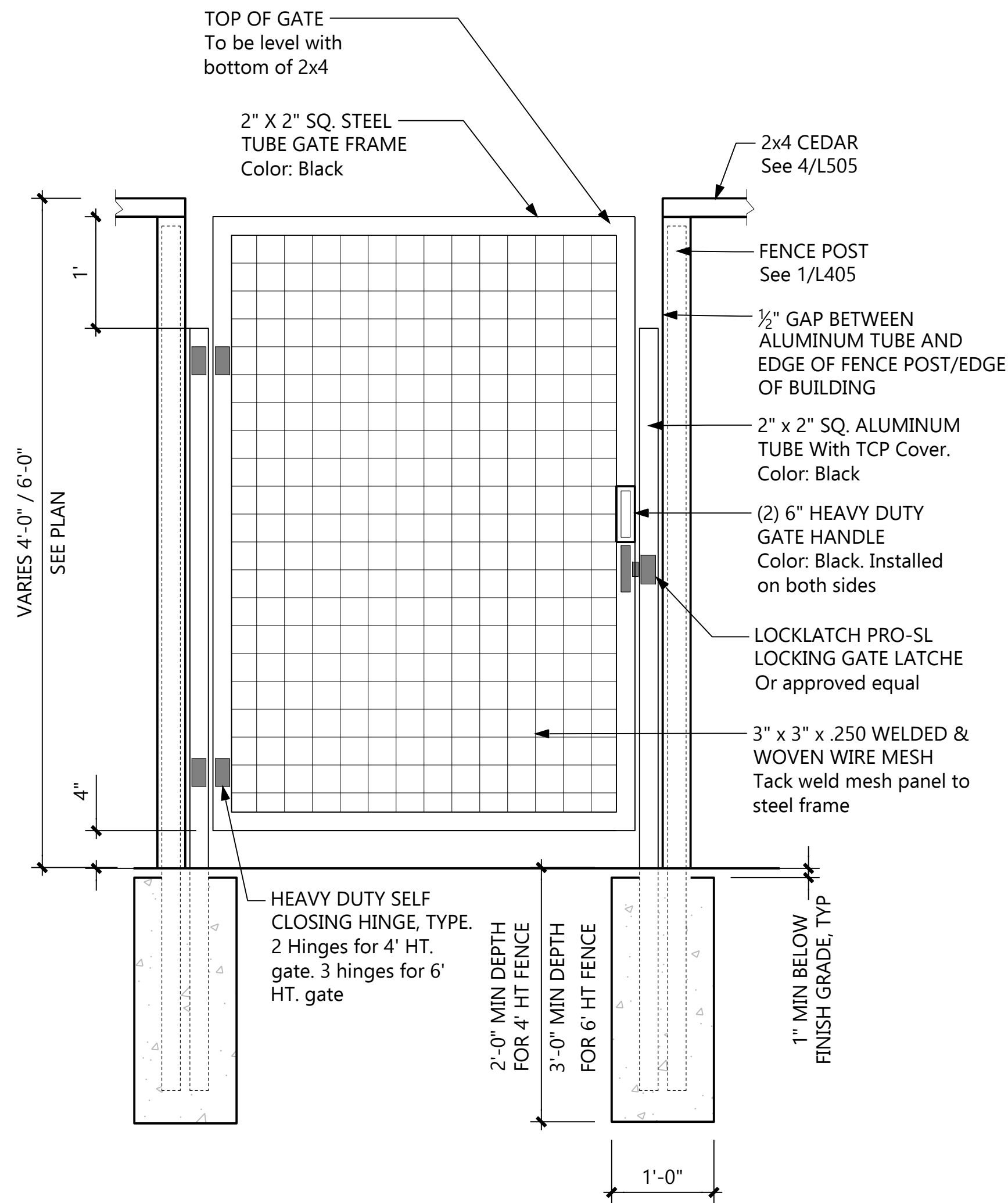
NOTE

1. The drawing is a basis of design. Shop drawings shall be approved by The landscape architect prior to purchase of any materials and installation.
2. Fence shall be stained with semi-transparent exterior wood stain and sealer.
3. All attachment screws, etc. shall match final color of treated wood.

WOOD PANEL FENCE



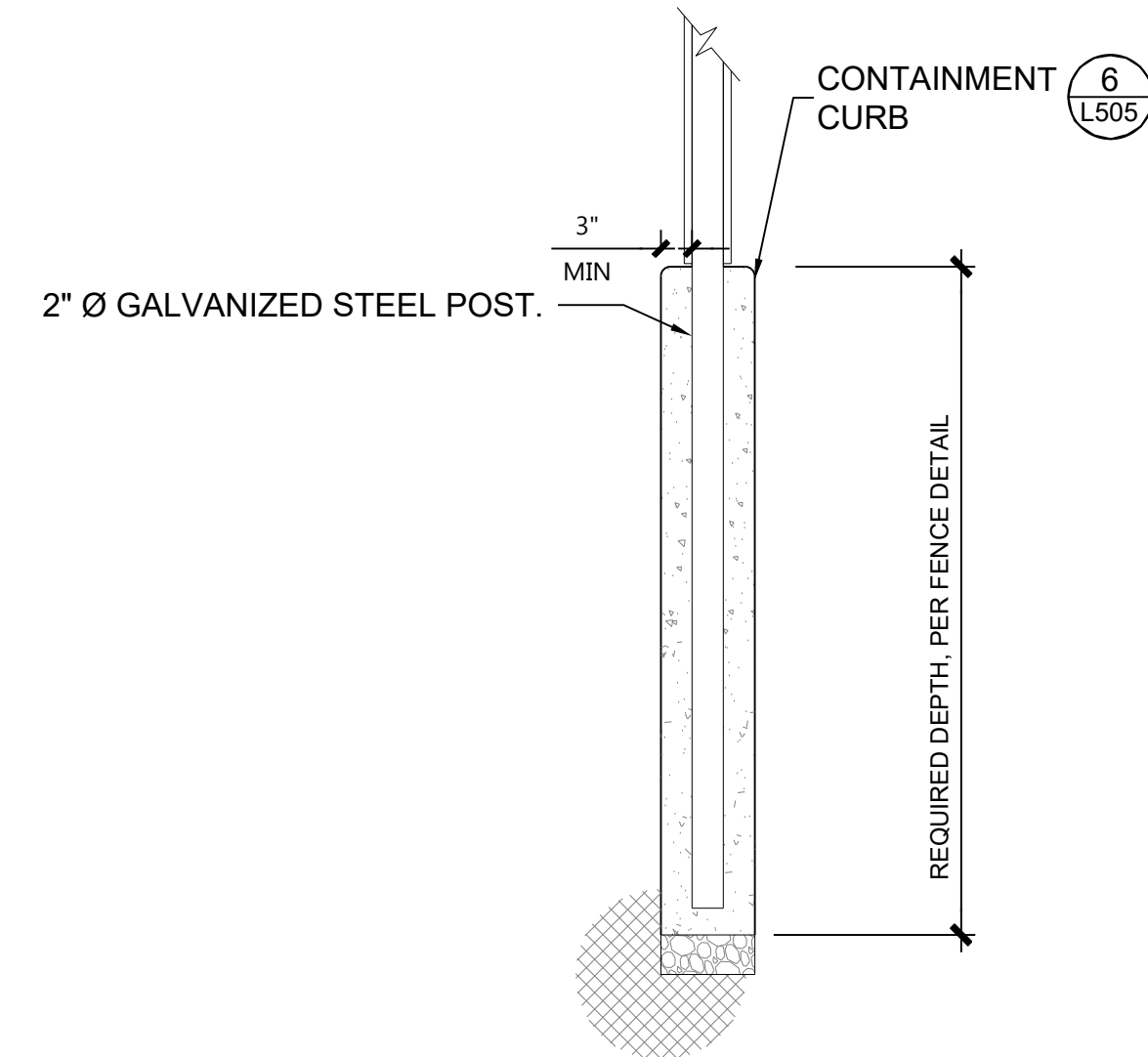
WOOD CHIPS AT PLAY AREA - TYPE 2



NOTE

1. The drawing is a basis of design. Shop drawings shall be approved by the landscape architect prior to purchase of any materials and installation.
2. All gate accessories shall be approved by The Client prior to installation.
3. All gate materials shall be black in color or painted black.
4. All gates shall open towards the interior of the facility.

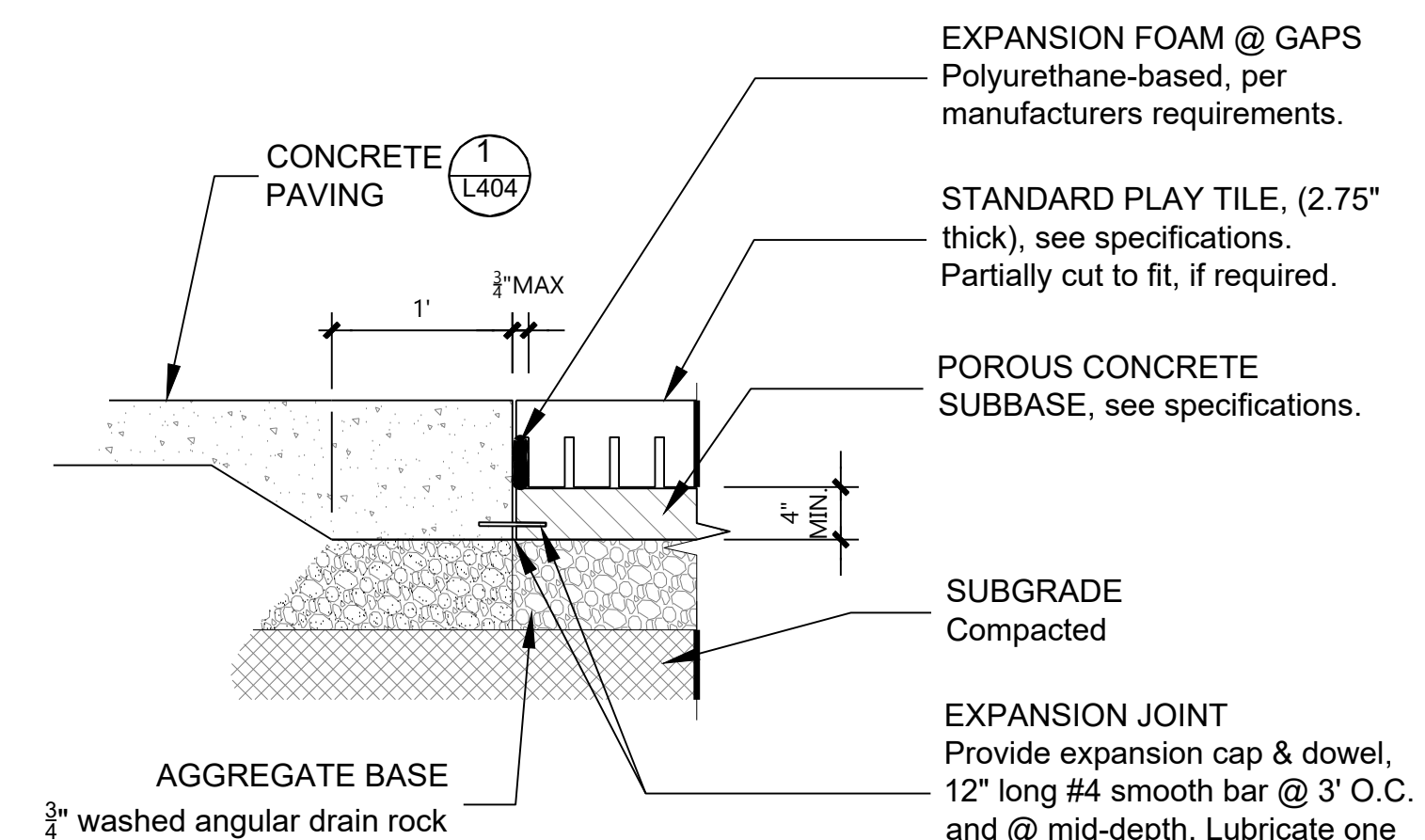
WELDED WOVEN STEEL GATE



NOTES

1. Ensure depth of containment curb is coordinated with the required depth of fence post. Where 4' ht. fence is installed on containment curb, curb will be min. 2' ht. where 6' ht. fence is installed on containment curb, curb depth will be min. 3' ht.

FENCE POST AT CONTAINMENT CURB

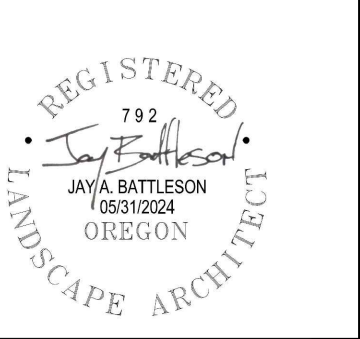


NOTES

1. Provide 1/4" radius @ exposed corners.
2. Install per Manufacturer's instructions.

PLAY TILE SURFACING

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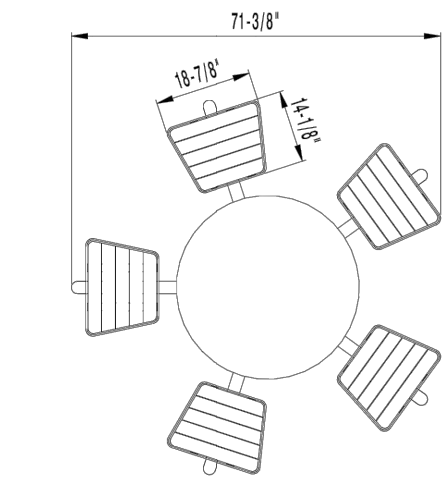
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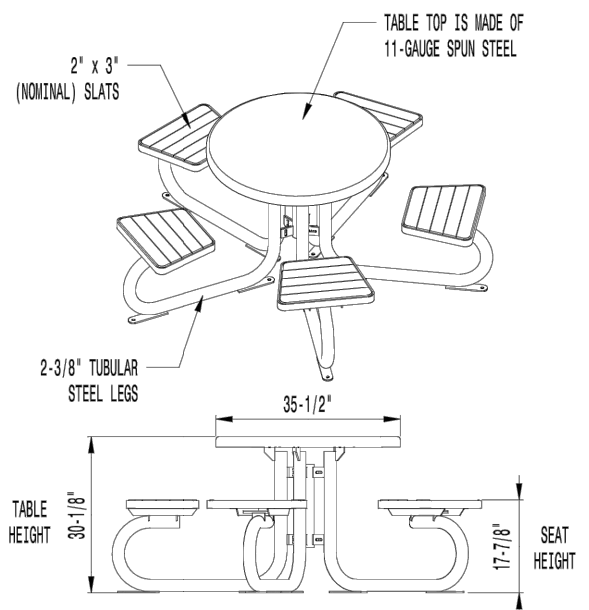
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CANADA REG. DES. 144082, 152916, 152927



* ALL DIMENSIONS ARE IN INCHES *



AVAILABLE OPTIONS:
POWDER COATING
10 STANDARD COLORS, 2 OPTIONAL METALLIC COLORS,
CUSTOM COLORS (INCLUDING THE RAL RANGE)
TABLE TOP
AVAILABLE WITH OPTIONAL PERFORATIONS - ROUND OR SLOT
AVAILABLE WITH OPTIONAL UMBRELLA HOLE

NOTES:

- DRAWINGS NOT TO SCALE. DO NOT SCALE DRAWINGS.
- ALL FABRICATED METAL COMPONENTS ARE STEEL SHOTBLASTED, ETCHED, PHOSPHATIZED, PREHEATED, AND ELECTROSTATICALLY POWDER-COATED WITH T.E.I.C. POLYESTER POWDER COATINGS. PRODUCTS ARE FULLY CLEANED AND PRETREATED, PREHEATED AND COATED WHILE HOT TO FILL CREVICES AND BUILD COATING FILLS. COATED PARTS ARE THEN FULLY CURED TO COATING MANUFACTURER'S SPECIFICATIONS. THE THICKNESS OF THE RESULTING FINISH VARIES 8-10 MILS (200-250 MICRONS).
- IT IS NOT RECOMMENDED TO LOCATE ANCHOR BOLTS UNTIL TABLE IS IN PLACE. THIS VICTOR STANLEY, INC. PRODUCT MUST BE PERMANENTLY AFFIXED TO THE GROUND. CONSULT YOUR LOCAL CODES FOR REGULATIONS.
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A-365
ANTHRO-SITES™ SERIES
ALL STEEL TABLE AND SEAT COMBINATION
SHOWN: OPTIONAL RECYCLED PLASTIC SLATS

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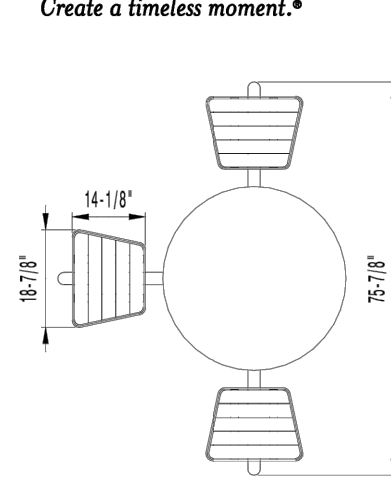
VICTOR STANLEY ALL STEEL TABLE AND SEAT COMBINATION

NTS **5**

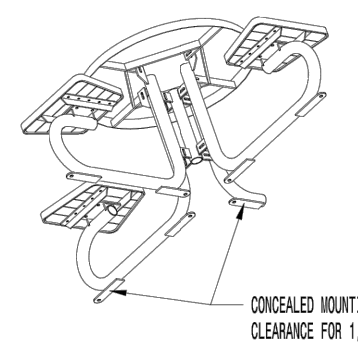
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CANADA REG. DES. 144082, 152916, 152927



* ALL DIMENSIONS ARE IN INCHES *



AVAILABLE OPTIONS:
POWDER COATING
10 STANDARD COLORS, 2 OPTIONAL METALLIC COLORS,
CUSTOM COLORS (INCLUDING THE RAL RANGE)
TABLE TOP
AVAILABLE WITH OPTIONAL PERFORATIONS - ROUND OR SLOT
AVAILABLE WITH OPTIONAL UMBRELLA HOLE

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A-H-363
ANTHRO-SITES™ SERIES
STEEL TABLE, BACKLESS SEATS WITH RECYCLED PLASTIC SLATS
SHOWN: STANDARD WHEELCHAIR ACCESSIBLE CONFIGURATION (ONE SEAT REMOVED)
STANDARD SURFACE MOUNT
OPTIONAL RECYCLED PLASTIC SLATS

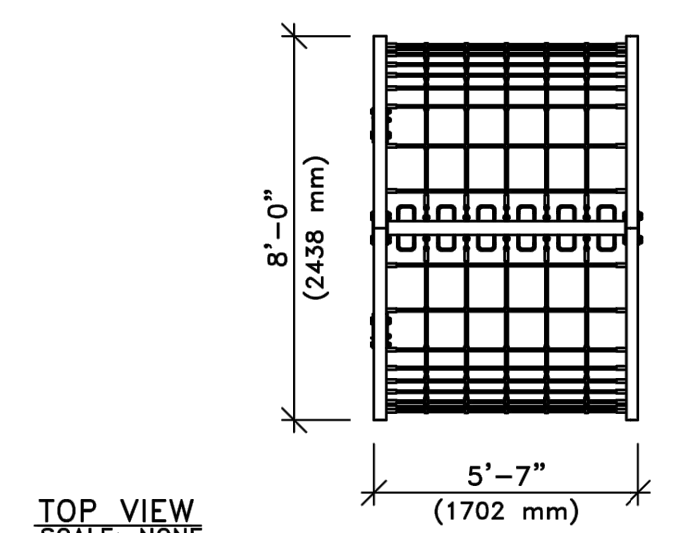
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VICTOR STANLEY TABLE, BACKLESS SEATS W/ RECYCLED PLASTIC SLATS

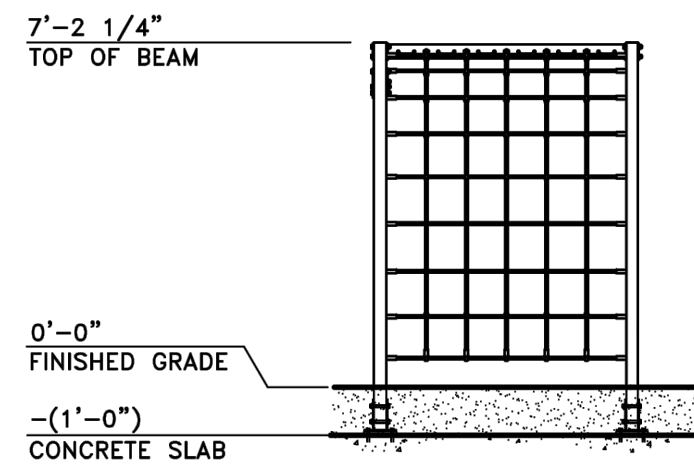
NTS **3**

NOT USED

NTS **1**

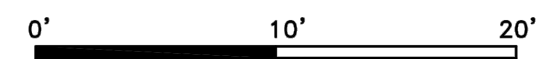


TOP VIEW
SCALE: NONE



FRONT VIEW
SCALE: NONE

NOTE:
CONCRETE SLAB AND ANCHOR DEVICES
(BY OTHERS) PER LOCAL CONDITIONS.
CONSULT PROJECT ENGINEER FOR EXACT
REQUIREMENTS.

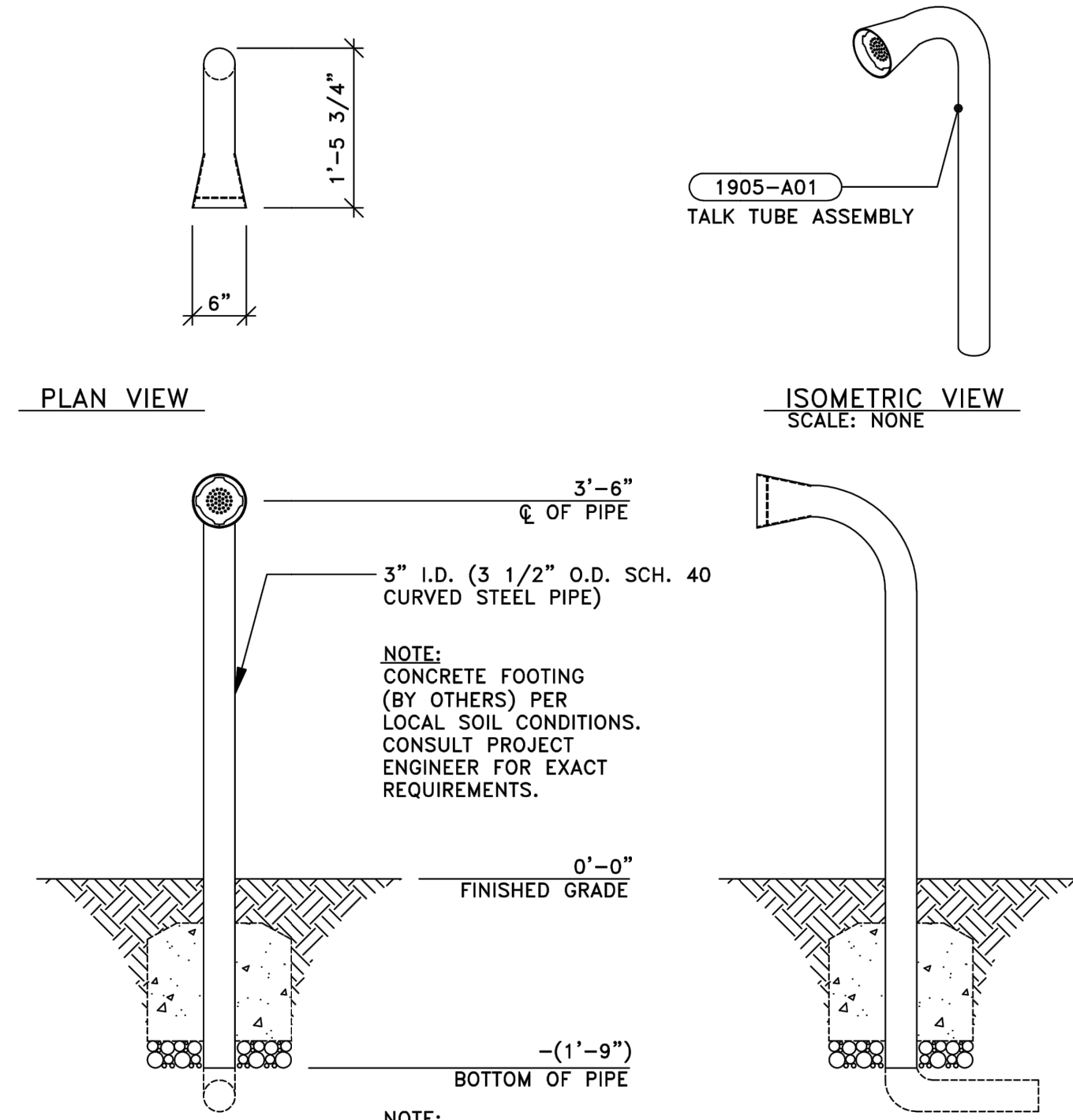


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Drawing No. **W-4500-601-TF** Sheet 1 of 1

TIMBERFORM 1 SECTION LINEAR TUNNEL CLIMBER

NTS **6**



FRONT ELEVATION

SIDE ELEVATION

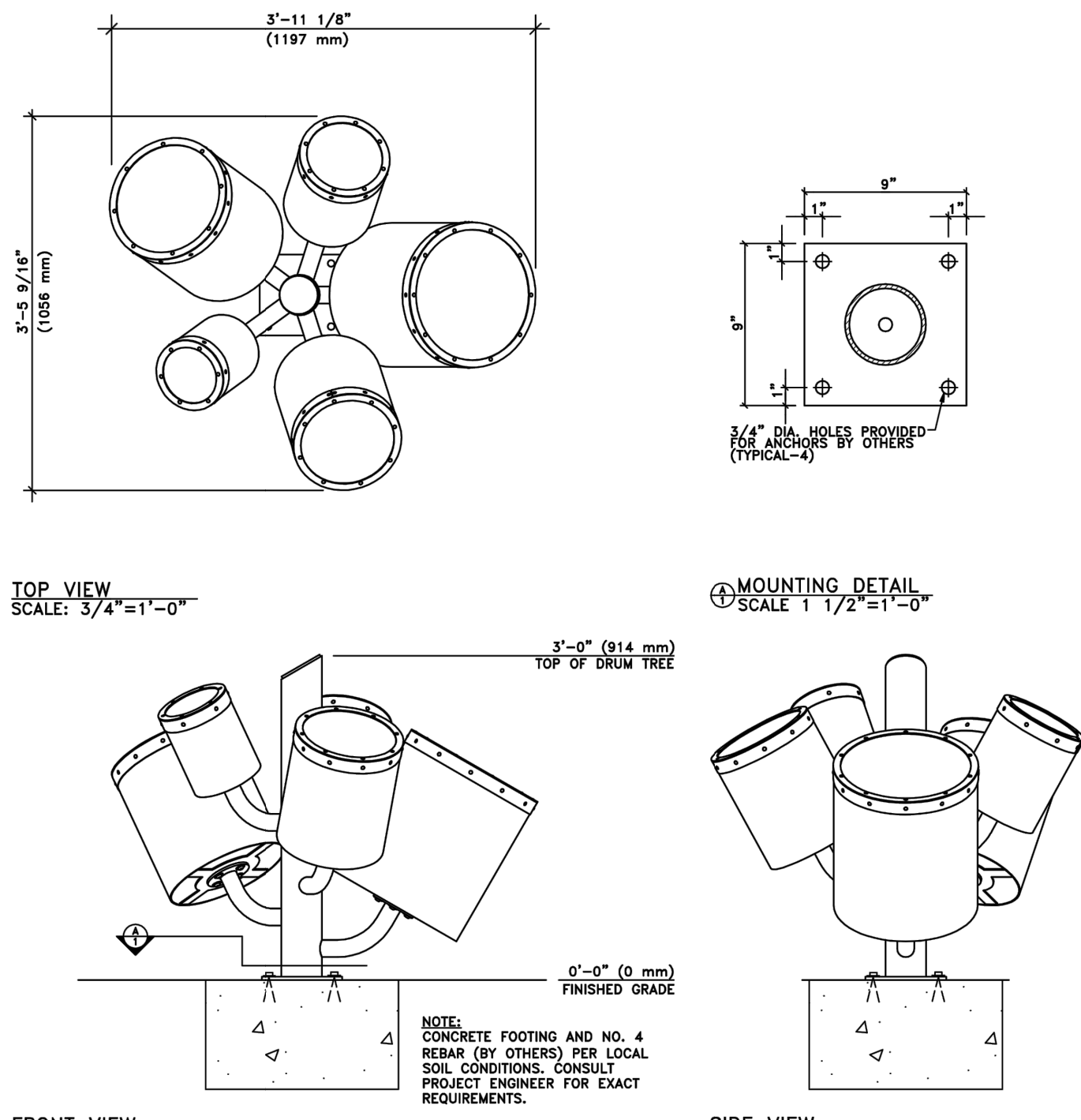
NOTE: SEE IMPORTANT MAINTENANCE INSTRUCTIONS ON DRAWING NO. E-2000-L03.

Date: Revision: By:
Scale: Drawn by: **BH** 03-28-19
Checked by: **SK** 03-28-19

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Drawing No. **W-1905** Sheet 1 of 1

TIMBERFORM TALK TUBE

NTS **4**



FRONT VIEW
SCALE: 3/4"=1'-0"

SIDE VIEW
SCALE: 3/4"=1'-0"

NOTE: SEE IMPORTANT MAINTENANCE INSTRUCTIONS ON DRAWING NO. E-2000-L03.

Date: Revision: By:
Scale: Drawn by: **GH** 10-21-10
Checked by: **BT** 10-21-10

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Drawing No. **W-2041-08-P** Sheet 1 of 1

TIMBERFORM DRUM TREE

NTS **2**

REV	DATE	DESCRIPTION	BY

REGISTERED
LANDSCAPE ARCHITECT
JAY A. BATTLESON
JAY A. BATTLESON
10610204
OREGON

CAMERON MCCARTHY
Landscape Architecture & Planning
160 E Broadway, Eugene, OR 97401
220 NW 8th Avenue, Portland OR 97209
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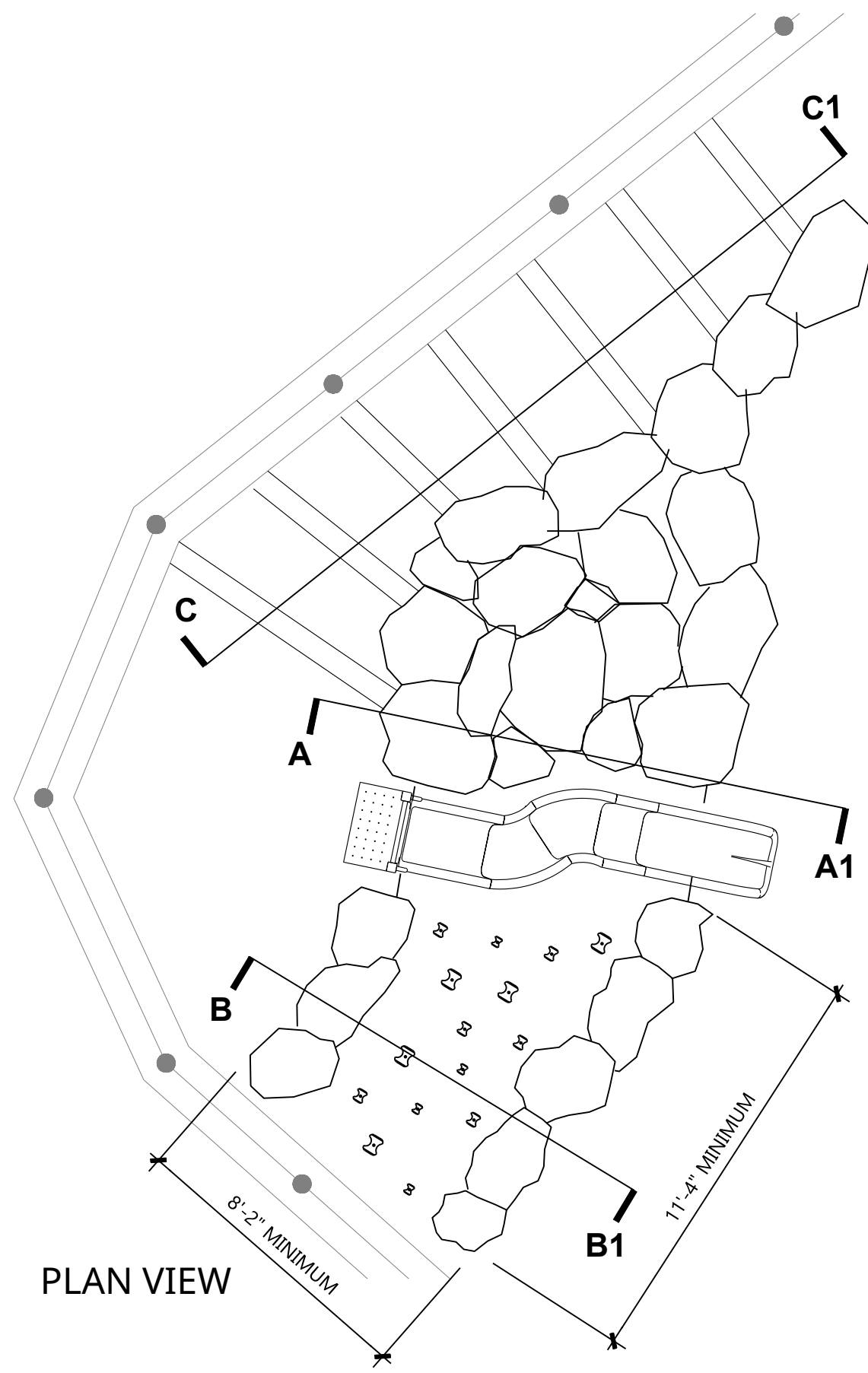
OSU CASCADES LITTLE KITS
BEND, OREGON
SITE
DETAILS

PROJECT: 2122.14860.01
DATE: 2/19/2024

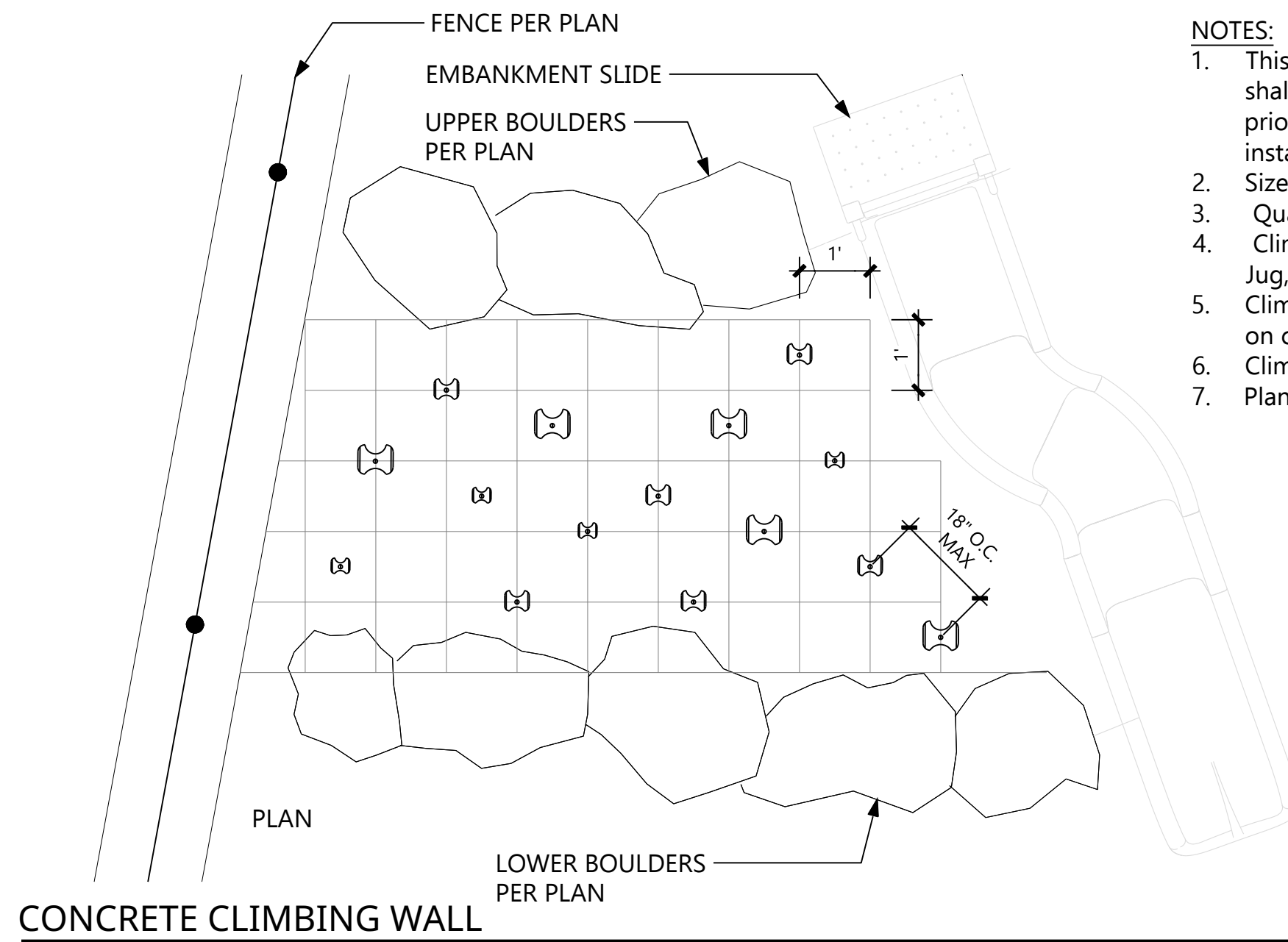
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L406

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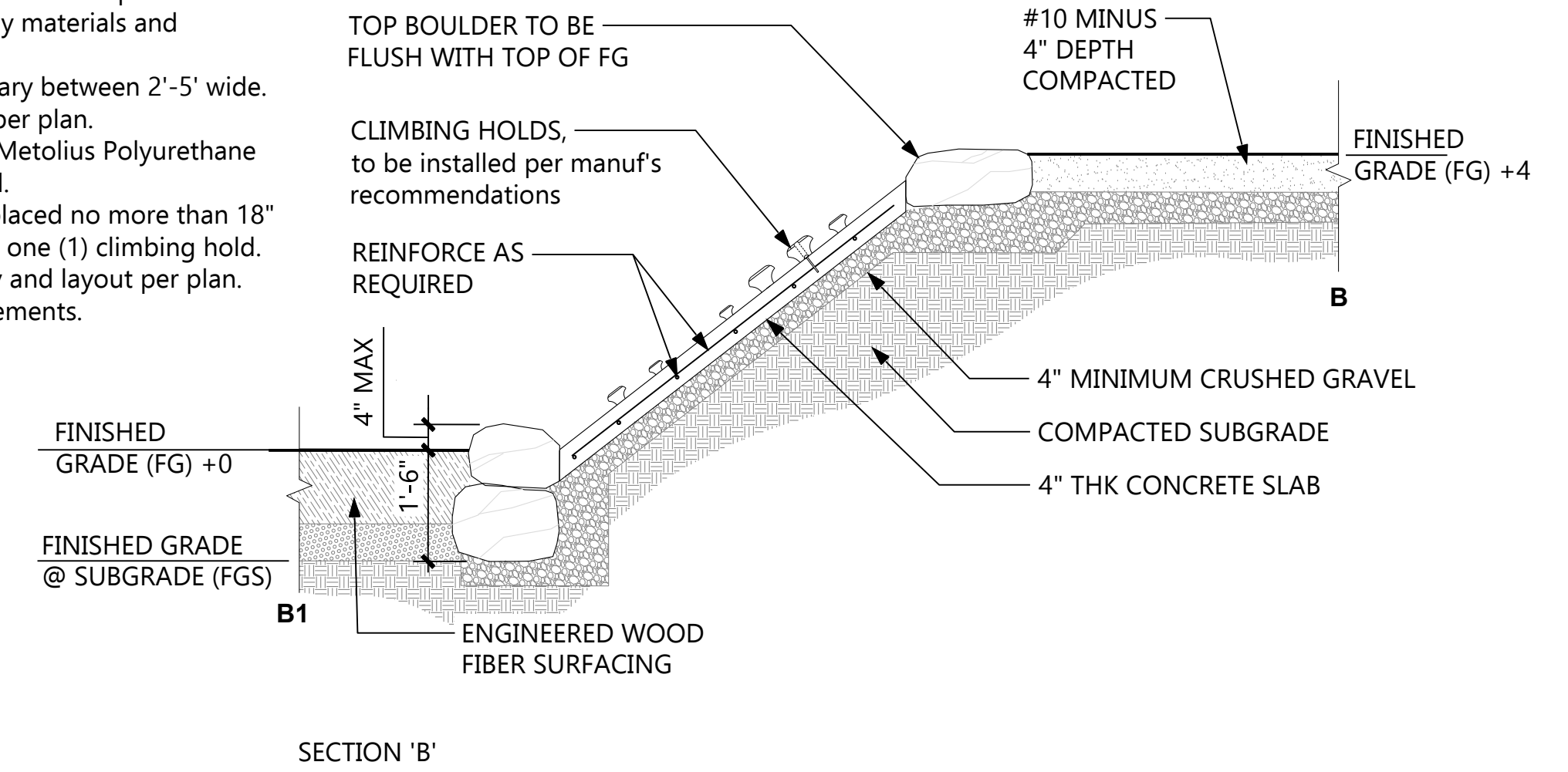


DETAIL SHOWN IS BASIS OF DESIGN

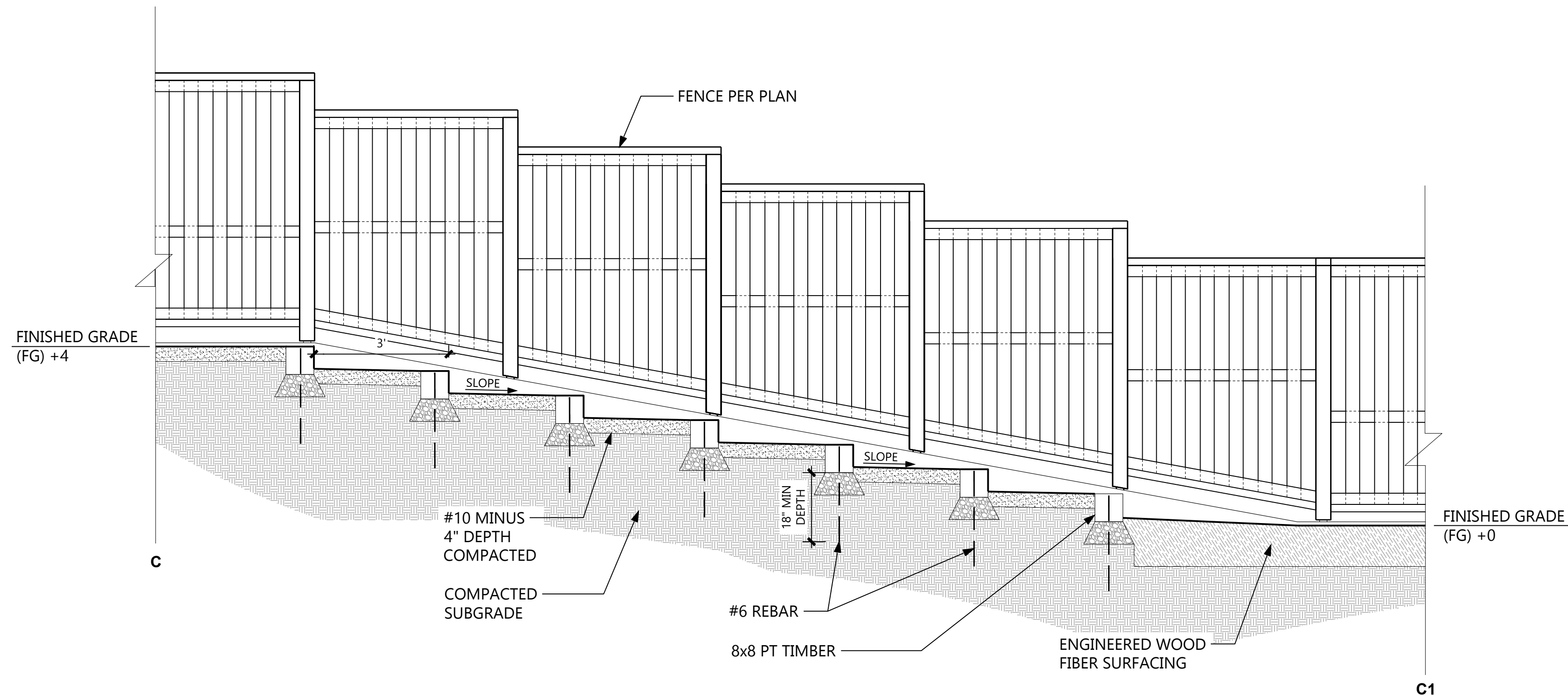


NOTES:

1. This drawing is basis of design. Shop drawings shall be approved by the landscape architect prior to purchase of any materials and installation.
2. Size of boulders may vary between 2'-5' wide.
3. Quantity of boulders per plan.
4. Climbing holds to be Metolius Polyurethane Jug, or approved equal.
5. Climbing holds to be placed no more than 18" on center from at least one (1) climbing hold.
6. Climbing hold quantity and layout per plan.
7. Plan grid are 1'x1' increments.



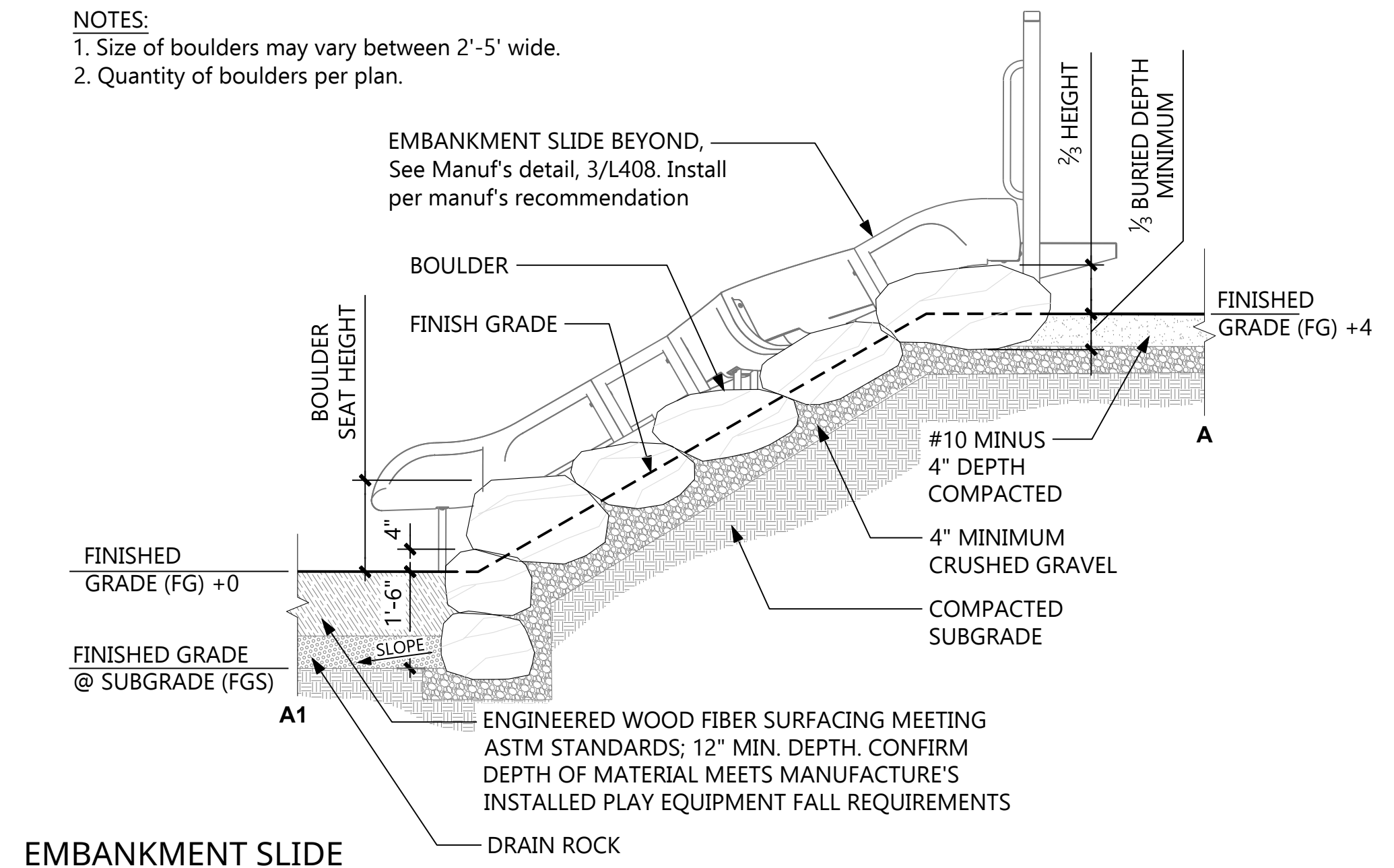
1
NTS



EMBANKMENT STEPS

NOTES:

1. Size of boulders may vary between 2'-5' wide.
2. Quantity of boulders per plan.

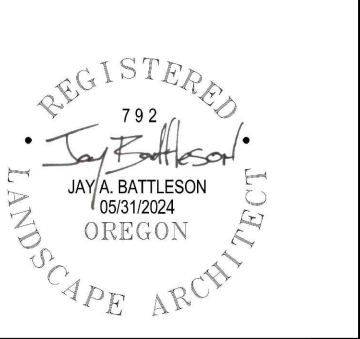


EMBANKMENT SLIDE

2
NTS

3
NTS

REV	DATE	DESCRIPTION



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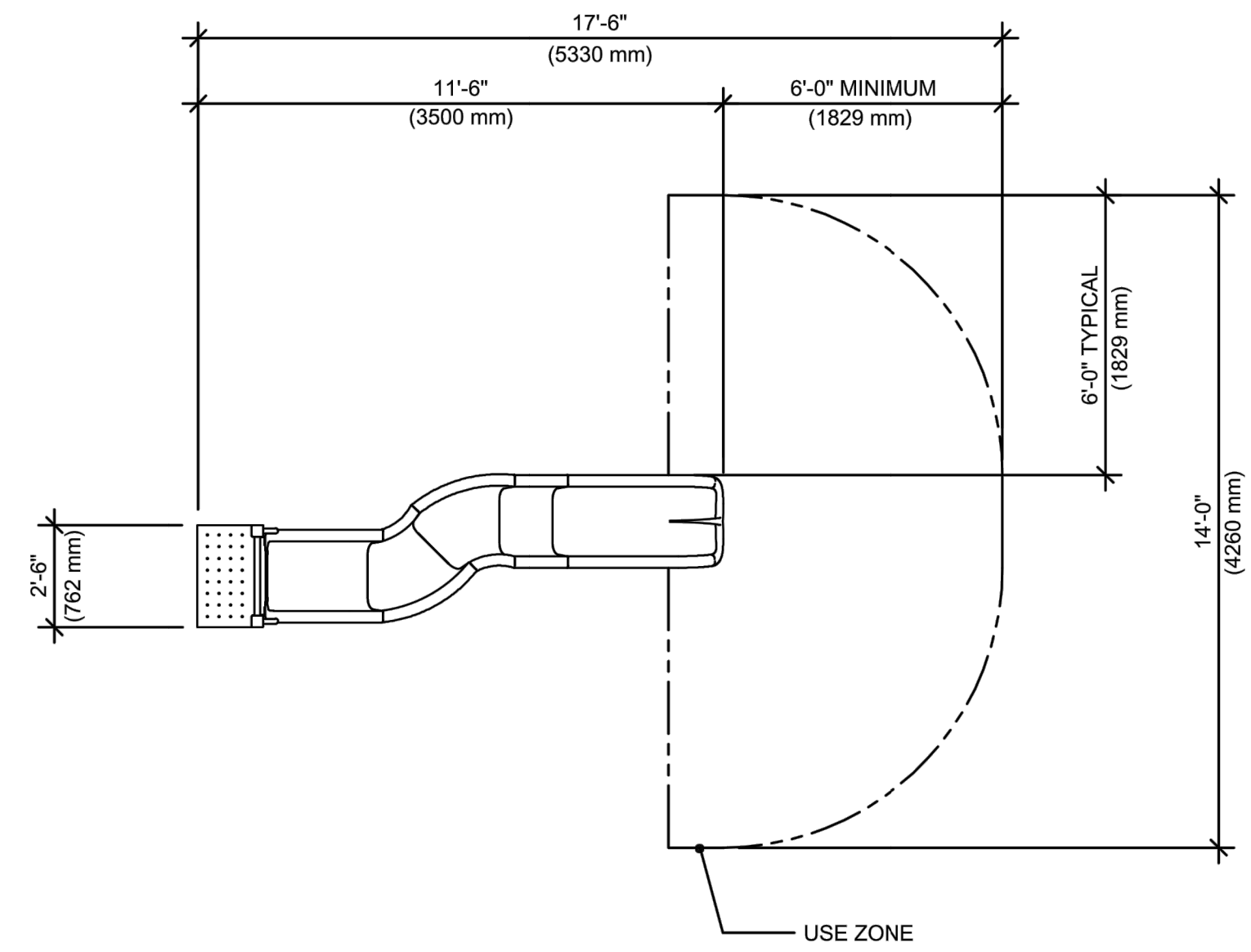
OSU CASCADES LITTLE KITS
BEND, OREGON
SITE
DETAILS

PROJECT 2122.14860.01
DATE 2/19/2024

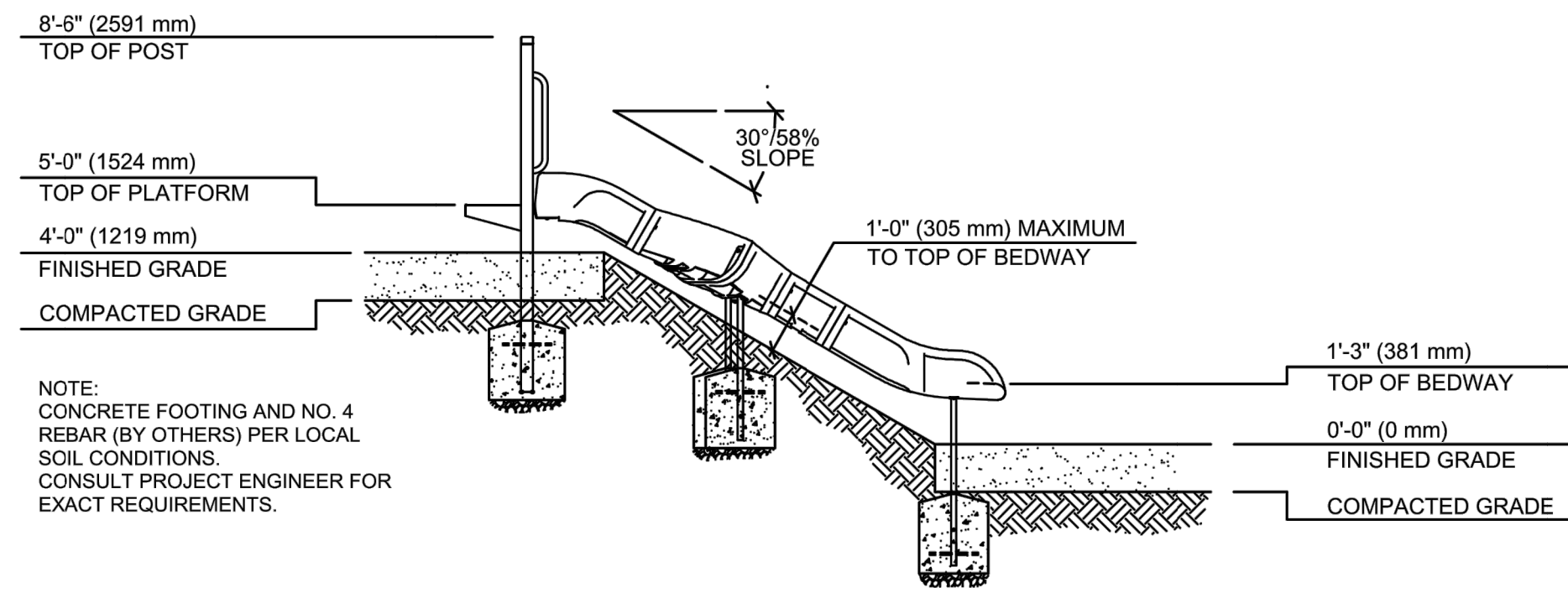
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PLAN VIEW



SIDE ELEVATION

NOTE:
CONCRETE FOOTING AND NO. 4 REBAR (BY OTHERS) PER LOCAL SOIL CONDITIONS. CONSULT PROJECT ENGINEER FOR EXACT REQUIREMENTS.

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01-19-18 USE ZONE ES/CL
Scale: 3/16" = 1'-0" Drawn by: AT 04-01-14 Ck'd by:

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Title: **TIMBERFORM MODEL NO. 1650-53-01-EMB EMBANKMENT CURVED SLIDE CHUTE**
Drawing No. **W-1650-53-01-EMB** Sheet **1 of 1**

TIMBERFORM EMBANKMENT CURVED SLIDE CHUTE

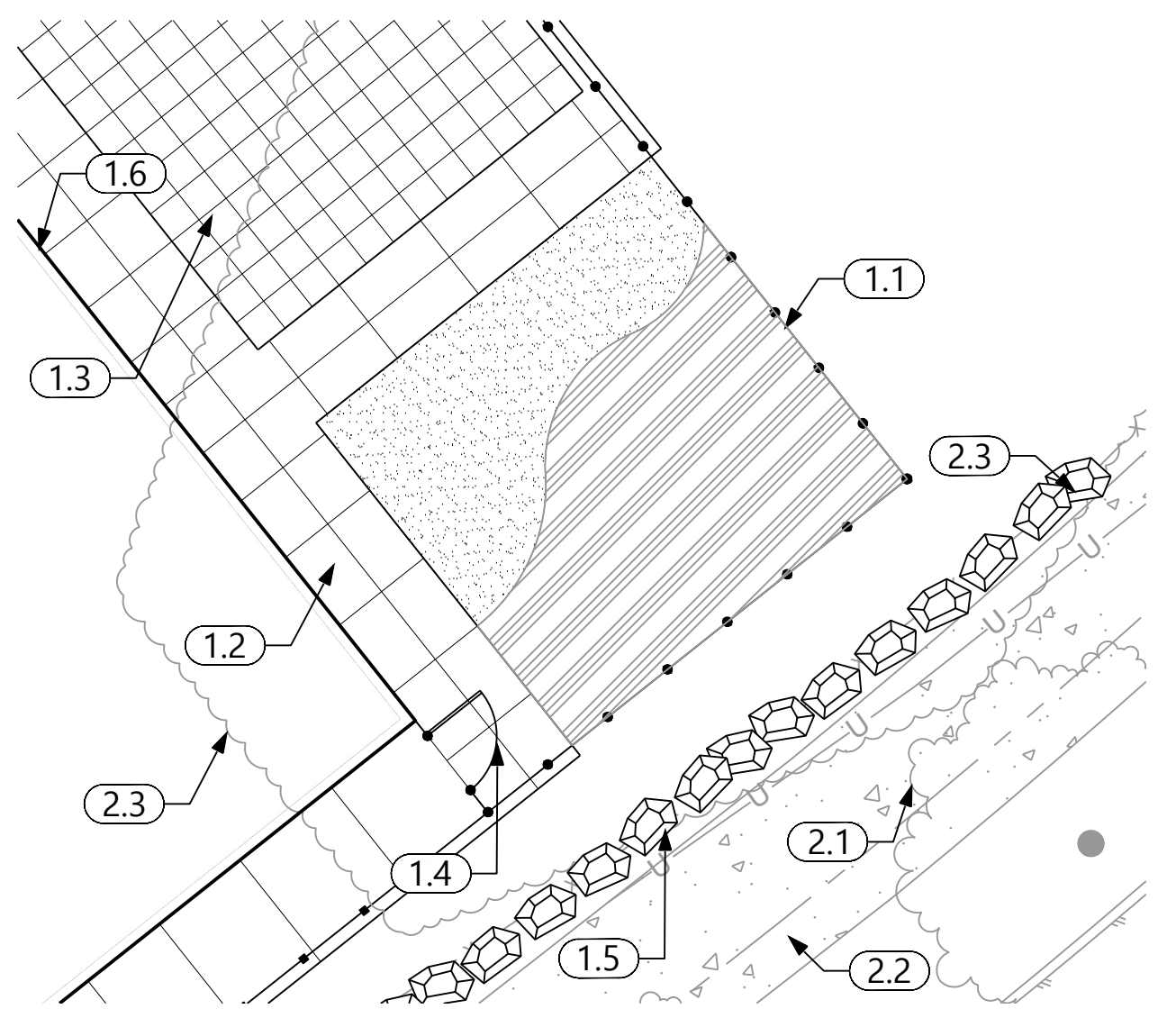
NTS **3**

KEY NOTES

- | | |
|----------------------------|--------------------------------|
| (1.0) SITE ELEMENTS | (2.0) EXISTING ELEMENTS |
| 1.1 WOOD FENCE | 2.1 DECIDUOUS TREE |
| 1.2 CONCRETE PAVING | 2.2 CONCRETE PAVING |
| 1.3 SOFTFALL TILES | 2.3 CHAIN LINK FENCE |
| 1.4 GATE | 2.4 EXTENTS OF CLUSTERED TREES |
| 1.5 BOULDER | |
| 1.6 PROPOSED BUILDING | |

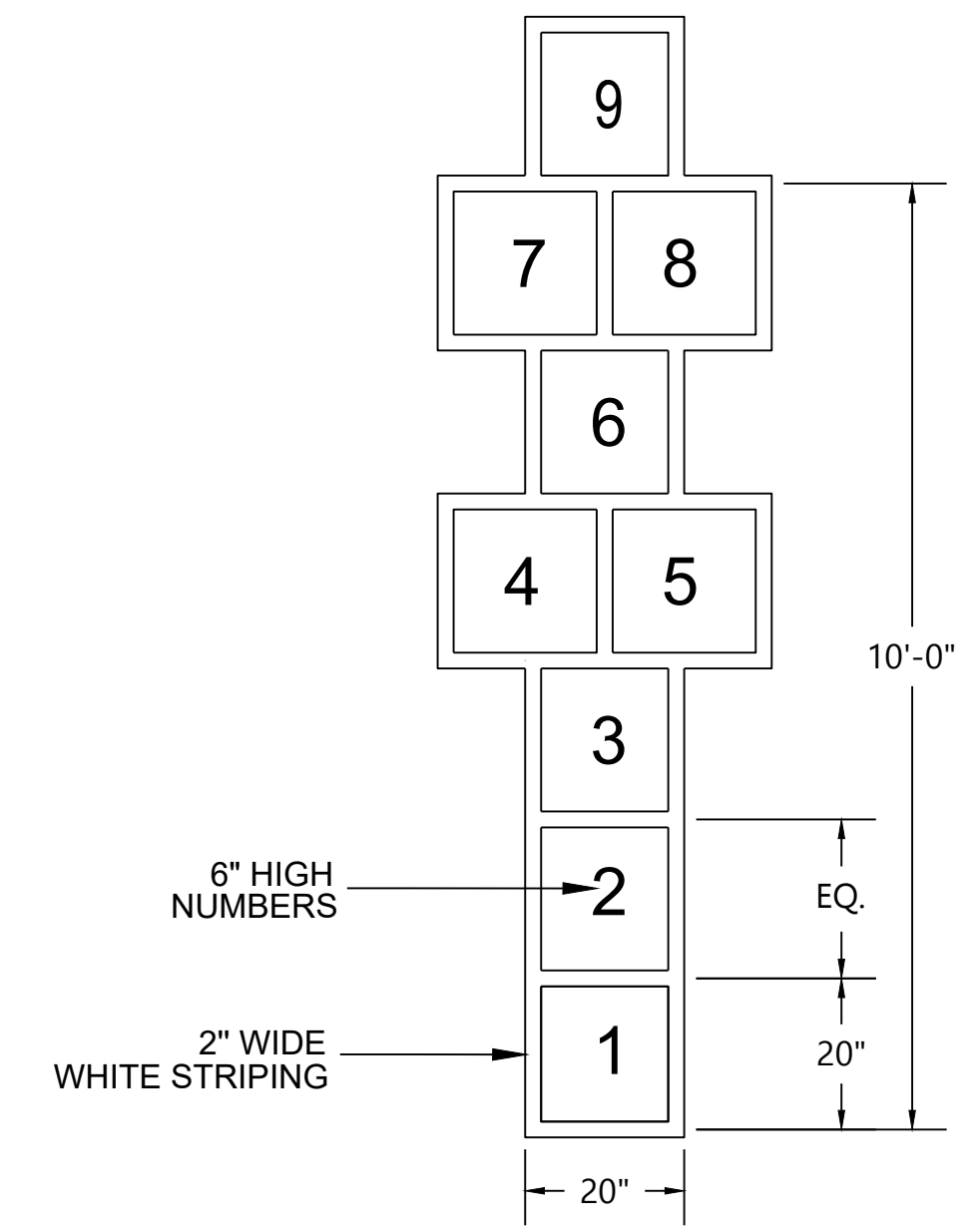
GRUBBING NOTES
Approximately 360 sq. ft. of area to be grubbed. Grubbing includes the removal of all weeds, inorganic debris, and all trees less than 6" DBH. All pine needle duff / mulch to remain. All trees >6" DBH., Rabbit Brush and Fescue plant material to remain.
* 360 sq. ft. does **NOT** include the area shown for the installed engineered wood fiber.

ENGINEERED WOOD FIBER NOTES
4.5 cy. of engineered wood fiber to be placed along the north and west edges of the concrete paving. Engineered wood fiber shall be placed so it smoothly feathers into the adjacent natural area. Average depth shall be ~6". Top of engineered wood fiber shall meet top of concrete paving flush.



NATURAL AREA IMPROVEMENTS

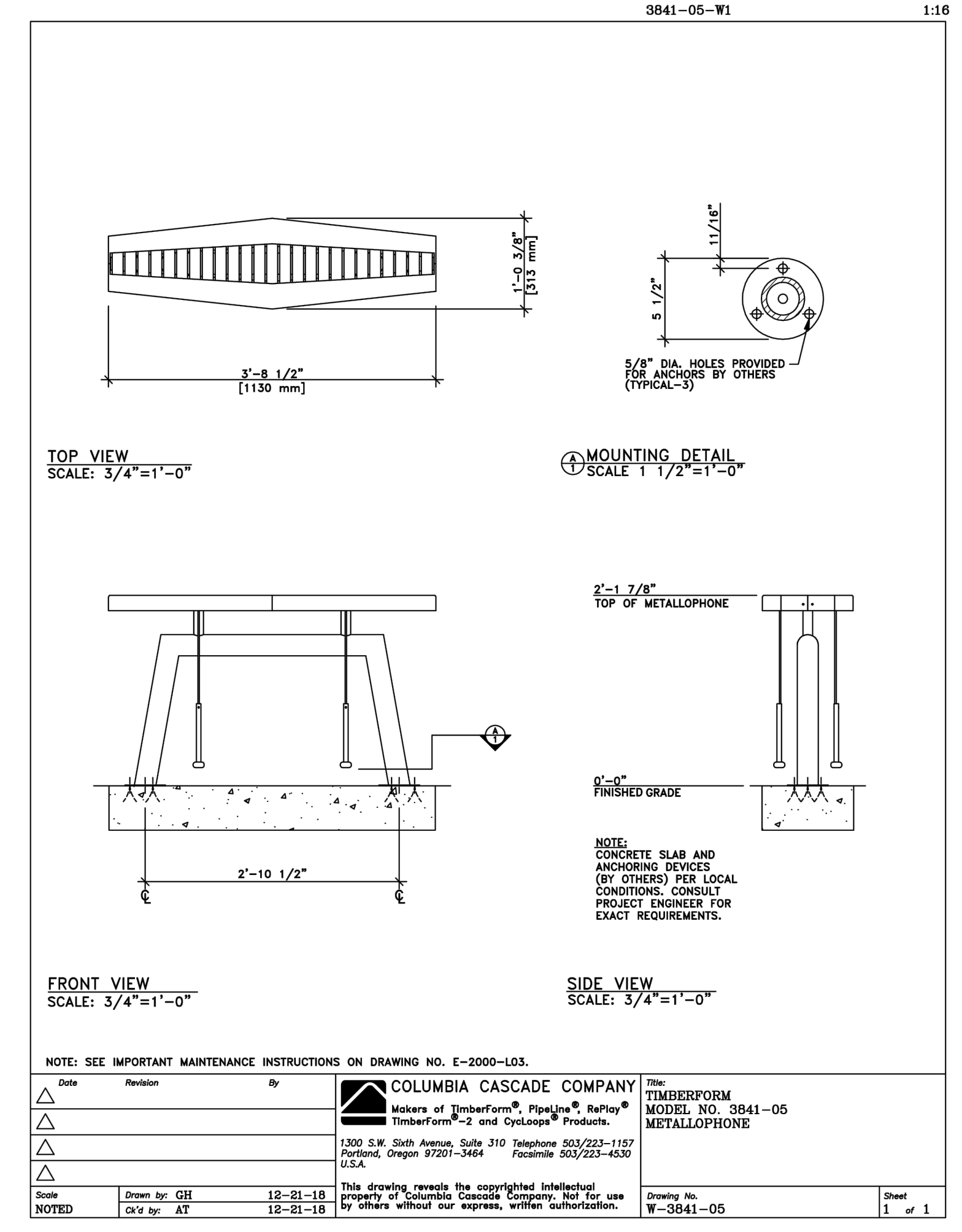
NTS **4**



NOTE
1. Court striping to be Kelly Moore traffic paint, color white.
2. Final location of court striping to be reviewed by landscape architect.

HOPSCOTCH COURT STRIPING

NTS **1**



NOTE: SEE IMPORTANT MAINTENANCE INSTRUCTIONS ON DRAWING NO. E-2000-LO3.
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Drawing No. **W-3841-05** Sheet **1 of 1**

TIMBERFORM METALLOPHONE

NTS **2**

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