

# SHERWOOD FESTIVAL PLAZA

CITY OF SHERWOOD, OR

## BIDDING DOCUMENTS

AUGUST 30, 2022

### PROJECT TEAM:

**OWNER / DEVELOPER:**  
CITY OF SHERWOOD  
PUBLIC WORKS BUILDING,  
15527 SW WILLAMETTE STREET  
SHERWOOD, OR 97140

**CONTACT:**  
KRISTEN SWITZER, COMMUNITY  
SERVICES DIRECTOR  
503-625-4210

**PRIMARY CONTACT  
LANDSCAPE ARCHITECT:**  
LANGO HANSEN  
LANDSCAPE ARCHITECTS  
1100 NW GLISAN #3A  
PORTLAND, OR 97209

**CONTACT:**  
BRETT HOORNAERT  
971-380-3452

**CIVIL ENGINEER:**  
HUMBER DESIGN GROUP, INC.  
110 SE MAIN ST, SUITE 200  
PORTLAND, OR 97214

**CONTACT:**  
ALLEN SCHMITZ  
503-488-5711

**ELECTRICAL ENGINEER:**  
R&W ENGINEERING, INC  
9615 SW ALLEN BLVD, SUITE 107  
BEAVERTON, OR 97005

**CONTACT:**  
DENNIS HALL  
503-292-6000

**STRUCTURAL ENGINEER:**  
EQUILIBRIUM ENGINEERS  
16325 BOONES FERRY RD, SUITE 202  
LAKE OSWEGO, OR 97035

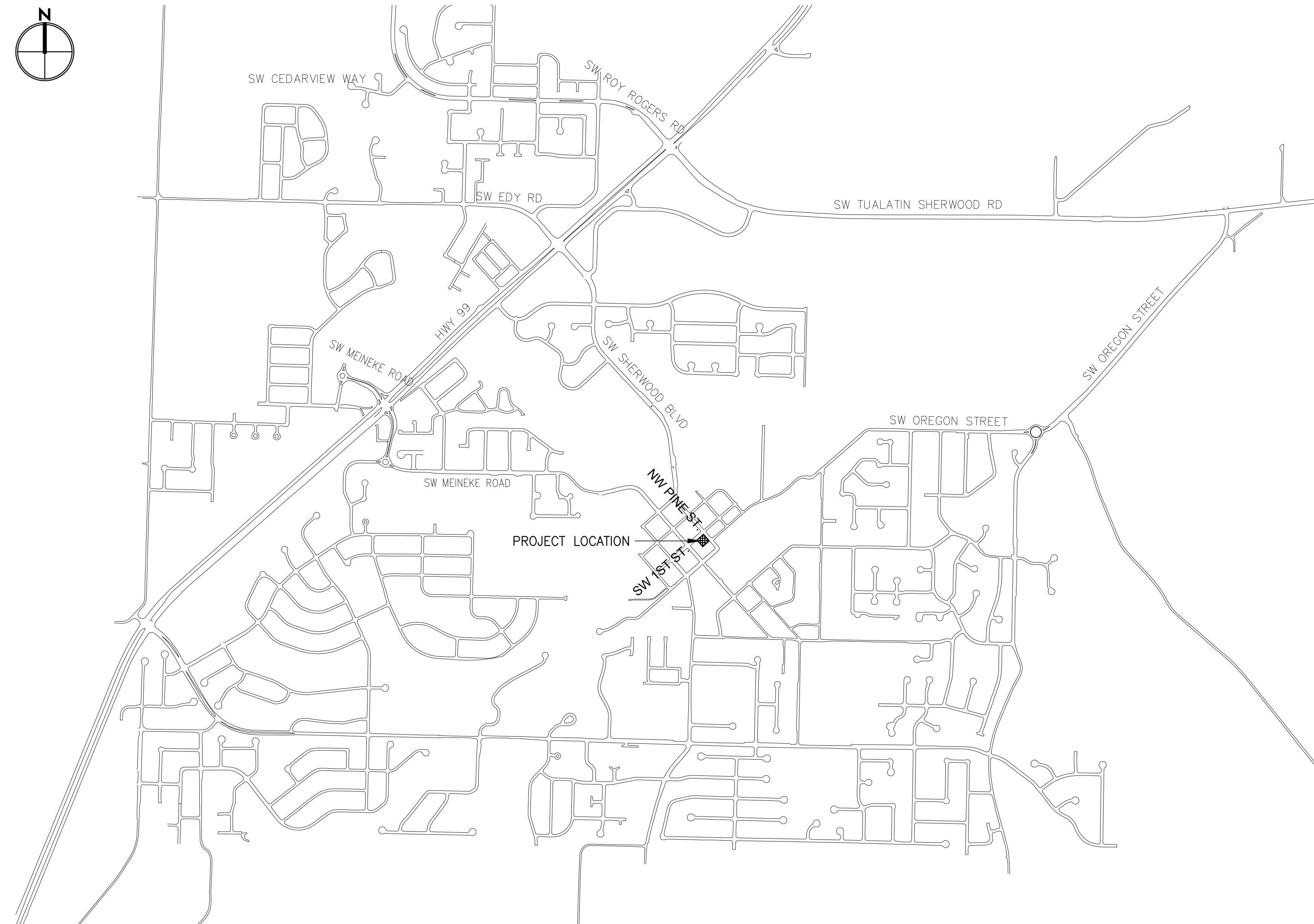
**CONTACT:**  
ED QUESENBERRY  
503-636-8388

**GEOTECHNICAL ENGINEER:**  
PALI CONSULTING  
4897 WILLAMETTE FALLS DR, SUITE 1  
WEST LINN, OR 97068

**CONTACT:**  
TIM BLACKWOOD  
503-502-0820

### PROJECT LOCATION:

ADDRESS: 16020 SW 1ST STREET  
TAX LOT ID: 2S132BC03800 AND 2S132BC03700



### SHEET INDEX:

C001	EXISTING CONDITIONS PLAN
L001	DEMOLITION PLAN
L101	MATERIALS PLAN
L201	LAYOUT PLAN
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L301	GRADING PLAN
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L501	IRRIGATION PLAN
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L608	DETAILS
P101	CANOPY DETAILS
C000	CIVIL NOTES
C100	EROSION AND SEDIMENT CONTROL PLAN
C200	UTILITY PLAN
C300	CIVIL DETAILS
E001	ELECTRICAL SYMBOL LEGEND AND SCHEDULES
E002	ELECTRICAL ONE-LINE DIAGRAM AND SCHEDULES
E100	SITE PLAN - ELECTRICAL
E200	SITE PLAN - PHOTOMETRIC
E201	STREET LIGHTING - PHOTOMETRIC
E300	ELECTRICAL DETAILS

lango.hansen

LANDSCAPE ARCHITECTS

1100 nw glisan #3a  
portland or 97209



SHERWOOD FESTIVAL PLAZA

CITY OF SHERWOOD  
15527 SW Willamette Street  
Sherwood, OR 97140

REVISIONS

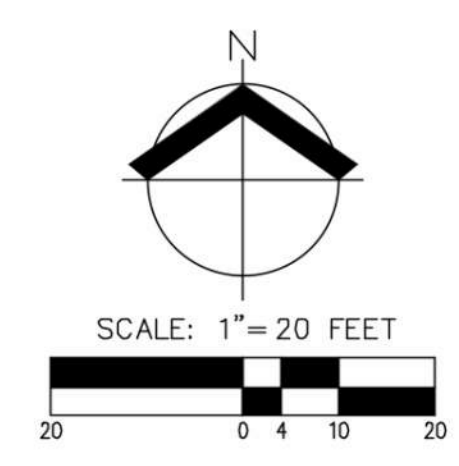
SCALE NTS  
DRAWN BY BAH  
DATE 08.30.2022  
PROJECT NO. 2150

BIDDING  
DOCUMENTS

SHEET TITLE

COVER SHEET

L000

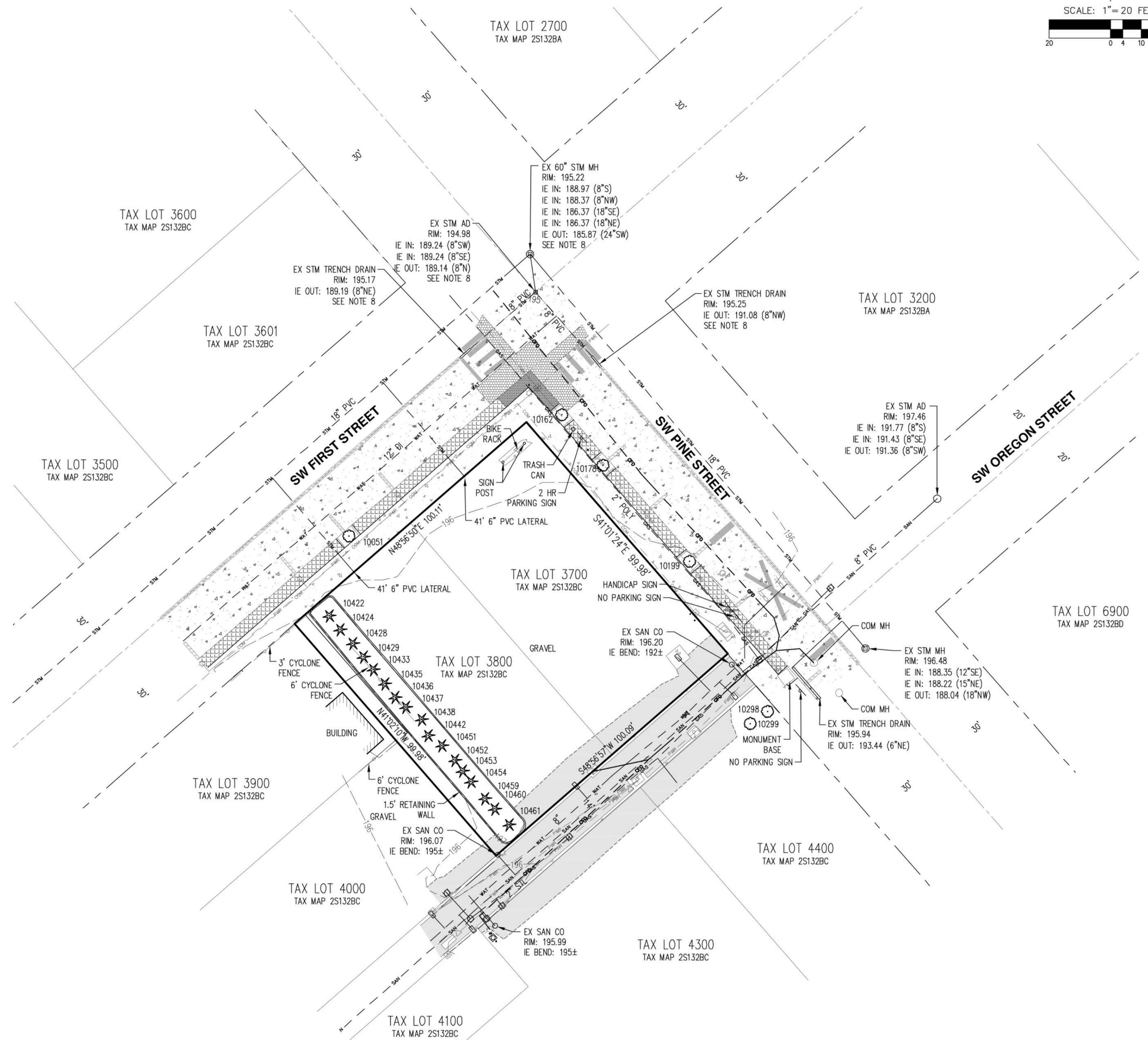


### LEGEND

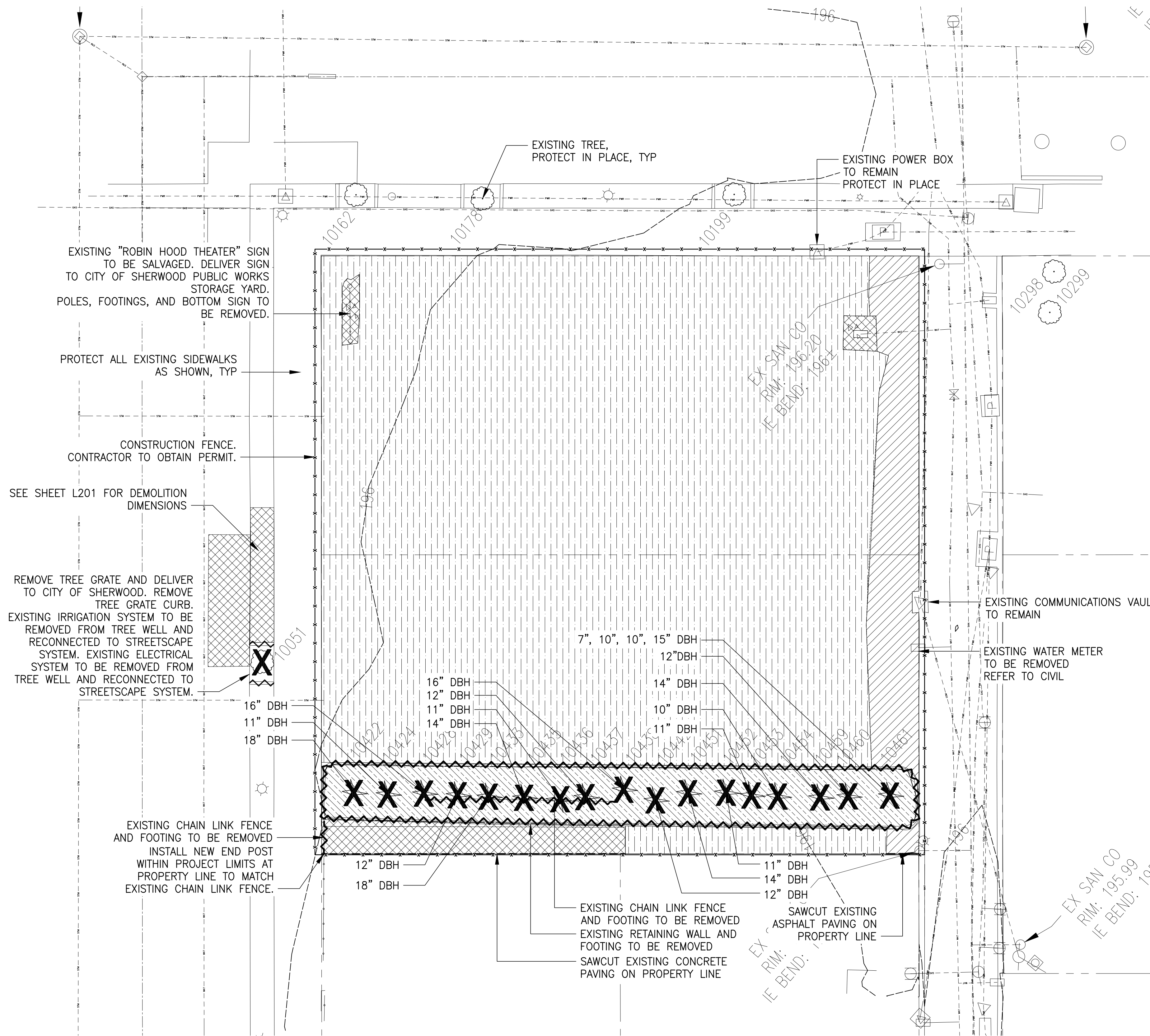
<b>EXISTING</b>	<b>EXISTING</b>
DECIDUOUS TREE	STORM DRAIN CLEAN OUT
CONIFEROUS TREE	STORM DRAIN CATCH BASIN
FIRE HYDRANT	STORM DRAIN AREA DRAIN
WATER BLOWOFF	STORM DRAIN MANHOLE
WATER METER	GAS METER
WATER VALVE	GAS VALVE
DOUBLE CHECK VALVE	GUY WIRE ANCHOR
AIR RELEASE VALVE	UTILITY POLE
SANITARY SEWER CLEAN OUT	POWER VAULT
SANITARY SEWER MANHOLE	POWER JUNCTION BOX
SIGN	POWER PEDESTAL
STREET LIGHT	COMMUNICATIONS VAULT
MAILBOX	COMMUNICATIONS JUNCTION BOX
BOLLARD	COMMUNICATIONS RISER
	<b>EXISTING</b>
RIGHT-OF-WAY LINE	---
BOUNDARY LINE	---
PROPERTY LINE	---
CENTERLINE	---
DITCH	---
CURB	---
EDGE OF PAVEMENT	---
EASEMENT	---
FENCE LINE	---
GRAVEL EDGE	---
POWER LINE	---
OVERHEAD WIRE	---
COMMUNICATIONS LINE	---
FIBER OPTIC LINE	---
GAS LINE	---
STORM DRAIN LINE	---
SANITARY SEWER LINE	---
WATER LINE	---

- NOTES:**
- UTILITIES SHOWN ARE BASED ON UNDERGROUND UTILITY LOCATE MARKINGS AS PROVIDED BY OTHERS. PROVIDED PER UTILITY LOCATE TICKET NUMBER 22052544, 22052546, 22052551. THE SURVEYOR MAKES NO GUARANTEE THAT THE UNDERGROUND LOCATES REPRESENT THE ONLY UTILITIES IN THE AREA. CONTRACTORS ARE RESPONSIBLE FOR VERIFYING ALL EXISTING CONDITIONS PRIOR TO BEGINNING CONSTRUCTION.
  - FIELD WORK WAS CONDUCTED MARCH 1-2, 2022.
  - VERTICAL DATUM: ELEVATIONS ARE BASED ON WASHINGTON COUNTY BENCHMARK NO. 111, LOCATED IN THE CURB SOUTHEAST CORNER OF THE INTERSECTION OF SUNSET COURT AND SHERWOOD BLVD. ELEVATION = 213.55 FEET (NGVD 29).
  - THIS IS NOT A PROPERTY BOUNDARY SURVEY TO BE RECORDED WITH THE COUNTY SURVEYOR. BOUNDARIES MAY BE PRELIMINARY AND SHOULD BE CONFIRMED WITH THE STAMPING SURVEYOR PRIOR TO RELYING ON FOR DETAILED DESIGN OR CONSTRUCTION.
  - BUILDING FOOTPRINTS ARE MEASURED TO SIDING UNLESS NOTED OTHERWISE. CONTACT SURVEYOR WITH QUESTIONS REGARDING BUILDING TIES.
  - CONTOUR INTERVAL IS 1 FOOT.
  - TREES WITH DIAMETER OF 6" AND GREATER ARE SHOWN. TREE DIAMETERS WERE MEASURED UTILIZING A DIAMETER TAPE AT BREAST HEIGHT. TREE INFORMATION IS SUBJECT TO CHANGE UPON ARBORIST INSPECTION.
  - STORM INVERT ELEVATIONS BASED ON ASBUILTS FROM CITY OF SHERWOOD CAPITAL IMPROVEMENT PROJECT #C-41
  - UNDERGROUND POWER LINES SHOWN BETWEEN POWER POLES ALONG SW PINE STREET AND SW FIRST STREET ARE PER LIGHTING PLAN 1ST AND PINE STREET DATED 8/31/2005, CARTER BURGESS PROJECT NO. 071668.100, CITY OF SHERWOOD CIP #C-41 SHEET NUMBER LE04.

TREE TABLE			TREE TABLE			TREE TABLE		
TREE NUMBER	TYPE	DBH (IN.)	TREE NUMBER	TYPE	DBH (IN.)	TREE NUMBER	TYPE	DBH (IN.)
10051	DECIDUOUS	6	10428	CONIFEROUS	16	10451	CONIFEROUS	14
10162	DECIDUOUS	6	10429	CONIFEROUS	12	10452	CONIFEROUS	11
10178	DECIDUOUS	10	10433	CONIFEROUS	18	10453	CONIFEROUS	11
10199	DECIDUOUS	8	10435	CONIFEROUS	14	10454	CONIFEROUS	10
10298	DECIDUOUS	6	10436	CONIFEROUS	11	10459	CONIFEROUS	14
10299	DECIDUOUS	10	10437	CONIFEROUS	12	10460	CONIFEROUS	12
10422	CONIFEROUS	18	10438	CONIFEROUS	16	10461	CONIFEROUS	7,10,10,15
10424	CONIFEROUS	11	10442	CONIFEROUS	12			



AKS DRAWING FILE: 7175-10\_C001.CONV.DWG | LAYOUT: C001



DEMOLITION LEGEND

- REMOVE ASPHALT PAVING AND FULL DEPTH OF ALL SUBGRADE MATERIALS
- REMOVE CONCRETE AND FULL DEPTH OF ALL SUBGRADE MATERIALS
- REMOVE GRANULAR PAVING AND FULL DEPTH OF ALL SUBGRADE MATERIALS
- CLEAR AND GRUB
- REMOVE CURB
- REMOVE WALL, RAILING, FENCE
- SAWCUT CONCRETE OR ASPHALT
- CONSTRUCTION FENCE
- EXISTING DECIDUOUS TREE TO REMAIN
- EXISTING CONIFEROUS TREE TO REMAIN
- EXISTING DECIDUOUS TREE TO BE REMOVED
- EXISTING CONIFEROUS TREE TO BE REMOVED

DEMOLITION GENERAL NOTES

1. THIS PLAN IS BASED ON A SURVEY BY AKS ENGINEERING AND FORESTRY, DATED 04/08/2022. NOTIFY OWNER'S REPRESENTATIVE OF ANY DISCREPANCIES IDENTIFIED ON SITE RELATED TO SURVEY INFORMATION PRIOR TO INSTALLATION.
2. SEE SPECIFICATIONS FOR DEMOLITION AND STAGING REQUIREMENTS.
3. SEE SPECIFICATIONS FOR PLANT PROTECTION AND PRESERVATION REQUIREMENTS.
4. PRIOR TO CONSTRUCTION CONTACT UTILITY COMPANIES TO LOCATE AND MARK IN THE FIELD ALL UTILITY LINES SUCH AS GAS, WATER, ELECTRICAL AND COMMUNICATION LINES.
5. EXISTING FEATURES MAY VARY FROM WHAT IS SHOWN ON PLAN. CONTRACTOR TO VERIFY ALL EXISTING AS-BUILT INFORMATION, UTILITIES, AND LOCATION OF ELEMENTS TO BE DEMOLISHED PRIOR TO BEGINNING WORK.
6. UTILITY INFORMATION SHOWN FOR REFERENCE ONLY. SEE CIVIL AND ELECTRICAL FOR SPECIFIC INFORMATION REGARDING THE DEMOLITION AND PROTECTION OF EXISTING UTILITIES.
7. CONTRACTOR IS RESPONSIBLE FOR DEMOLITION OF ALL SURFACE MATERIALS, SUBGRADE MATERIALS, FOOTINGS AND UTILITIES NEEDED TO CONSTRUCT PROPOSED WORK.
8. PROTECT ALL EXISTING STRUCTURES, PAVEMENT, CURBS, FURNISHINGS, PLANTING AND IRRIGATION NOT SCHEDULED FOR REMOVAL.
9. PROTECT ALL EXISTING UTILITIES UNLESS NOTED FOR DEMOLITION. SEE CIVIL AND ELECTRICAL DRAWINGS FOR UTILITY DEMOLITION.
10. SEE CIVIL DRAWINGS FOR DEMOLITION INFORMATION RELATED TO THE CONNECTION TO EXISTING CATCH BASINS AND WATER METERS.
11. SEE CIVIL DRAWINGS FOR EROSION CONTROL PLAN AND DETAILS.
12. MAINTAIN IRRIGATION SERVICE THROUGHOUT GROWING SEASON, EITHER THROUGH TEMPORARY CONNECTIONS TO MAINLINE AND CONTROLLER OR BY REPLACING MAINLINE AND RESTORING IRRIGATION WIRING FROM CONTROLLER TO ZONES UNAFFECTED BY CONSTRUCTION.

SHERWOOD FESTIVAL PLAZA

CITY OF SHERWOOD  
15527 SW Wilamette Street  
Sherwood, OR 97140

REVISIONS

NO.	DESCRIPTION

SCALE 1" = 10' - 0"  
DRAWN BY BAH  
DATE 08.30.2022  
PROJECT NO. 2150

BIDDING DOCUMENTS

SHEET TITLE

DEMOLITION PLAN

L001





**LEGEND**

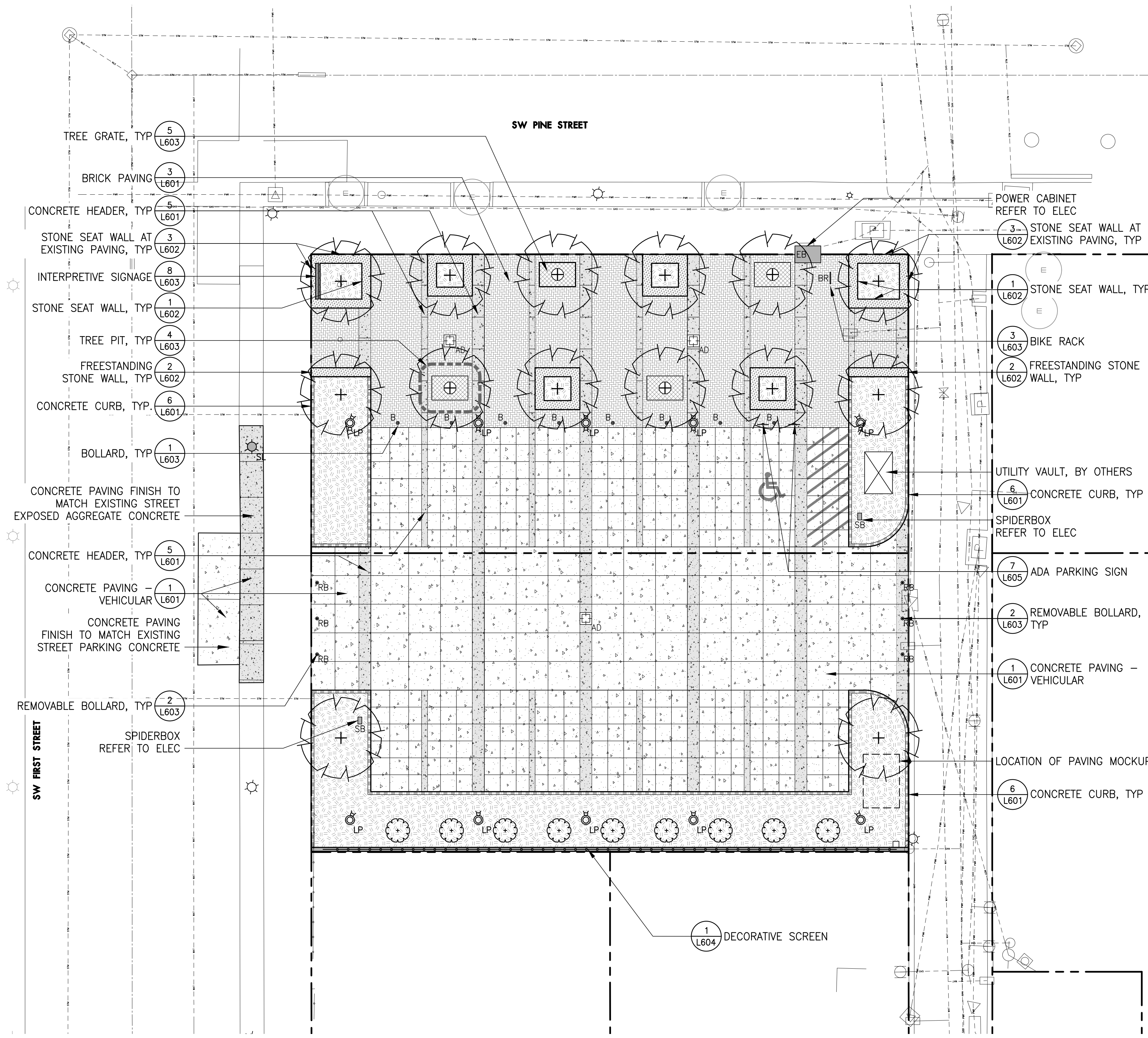
- LIMIT OF WORK
- - - - - PROPERTY LINE/RIGHT-OF-WAY
- [Pattern] VEHICULAR CONCRETE PAVING
- [Pattern] DARK GREY EXPOSED AGGREGATE
- [Pattern] BRICK PAVING
- [Pattern] CONCRETE CURB
- [Pattern] CONCRETE WALL
- [Pattern] DECORATIVE METAL SCREEN
- [Pattern] STONE SEAT WALL/FREESTANDING STONE WALL
- [Symbol] BOLLARD
- [Symbol] RB REMOVABLE BOLLARD
- [Symbol] BR| BIKE RACK
- [Symbol] AP ACCESSIBLE PARKING SIGN
- [Symbol] LP PLAZA LIGHT POLE, SEE DWGS BY USA SHADE
- [Symbol] SL RELOCATED STREET LIGHT, REFER TO ELEC
- [Symbol] AD AREA DRAIN, REFER TO CIVIL
- [Symbol] TREE GRATE
- [Pattern] PLANTING BED
- [Symbol] + PROPOSED TREES, SEE PLANTING PLANS
- [Symbol] E EXISTING TREE TO REMAIN
- [Symbol] EB POWER CABINET SEE ELECTRICAL
- [Symbol] SB SPIDER BOX SEE ELECTRICAL

**MATERIALS NOTES**

1. THIS PLAN IS BASED ON A SURVEY BY AKS ENGINEERING AND FORESTRY, DATED 04/08/2022. NOTIFY OWNER'S REPRESENTATIVE OF ANY DISCREPANCIES IDENTIFIED ON SITE RELATED TO SURVEY INFORMATION PRIOR TO INSTALLATION.
2. PROTECT EXISTING VEGETATION TO REMAIN. SEE SPECIFICATION SECTION 01 56 39 FOR FENCING AND OTHER REQUIREMENTS.
3. SEE CIVIL DRAWINGS FOR LOCATION OF UTILITIES.
4. SEE ELECTRICAL DRAWINGS FOR FURTHER INFORMATION REGARDING SITE LIGHTING AND ELECTRIC UTILITIES.
5. CONTRACTOR TO SUBMIT PAVING MOCK-UP FOR APPROVAL BY OWNER'S REPRESENTATIVE PRIOR TO INSTALLATION. MOCKUP TO INCLUDE CONCRETE PAVING, EXPOSED AGGREGATE CONCRETE PAVING, AND BRICK PAVING. SEE PLAN FOR LOCATION.
6. ALL TREE PLANTING AREAS SHALL RECEIVED 36" MIN DEPTH IMPORT TOPSOIL. ALL SHRUB PLANTING AREAS SHALL RECEIVE 18" MIN IMPORT TOPSOIL.

**ABBREVIATIONS**

ARCH	ARCHITECTURAL
CONC	CONCRETE
DWG	DRAWINGS
ELEC	ELECTRICAL
MECH	MECHANICAL
NIC	NOT IN CONTRACT
PA	PLANTING AREA
SIM	SIMILAR
SPECS	SPECIFICATIONS
STRUC	STRUCTURAL
TYP	TYPICAL
W/	WITH



- [Symbol] POWER CABINET REFER TO ELEC
- [Symbol] STONE SEAT WALL AT EXISTING PAVING, TYP
- [Symbol] STONE SEAT WALL, TYP
- [Symbol] BIKE RACK
- [Symbol] FREESTANDING STONE WALL, TYP
- [Symbol] UTILITY VAULT, BY OTHERS
- [Symbol] CONCRETE CURB, TYP
- [Symbol] SPIDERBOX REFER TO ELEC
- [Symbol] ADA PARKING SIGN
- [Symbol] REMOVABLE BOLLARD, TYP
- [Symbol] CONCRETE PAVING - VEHICULAR
- [Symbol] LOCATION OF PAVING MOCKUP
- [Symbol] CONCRETE CURB, TYP
- [Symbol] DECORATIVE SCREEN

- [Symbol] TREE GRATE, TYP
- [Symbol] BRICK PAVING
- [Symbol] CONCRETE HEADER, TYP
- [Symbol] STONE SEAT WALL AT EXISTING PAVING, TYP
- [Symbol] INTERPRETIVE SIGNAGE
- [Symbol] STONE SEAT WALL, TYP
- [Symbol] TREE PIT, TYP
- [Symbol] FREESTANDING STONE WALL, TYP
- [Symbol] CONCRETE CURB, TYP
- [Symbol] BOLLARD, TYP
- [Symbol] CONCRETE PAVING FINISH TO MATCH EXISTING STREET EXPOSED AGGREGATE CONCRETE
- [Symbol] CONCRETE HEADER, TYP
- [Symbol] CONCRETE PAVING - VEHICULAR
- [Symbol] CONCRETE PAVING FINISH TO MATCH EXISTING STREET PARKING CONCRETE
- [Symbol] REMOVABLE BOLLARD, TYP
- [Symbol] SPIDERBOX REFER TO ELEC

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REVISIONS

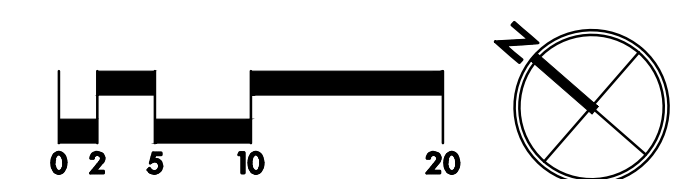

SCALE 1" = 10' - 0"  
DRAWN BY BAH  
DATE 08.30.2022  
PROJECT NO. 2150

BIDDING DOCUMENTS

SHEET TITLE

MATERIALS PLAN

L101



**LEGEND**

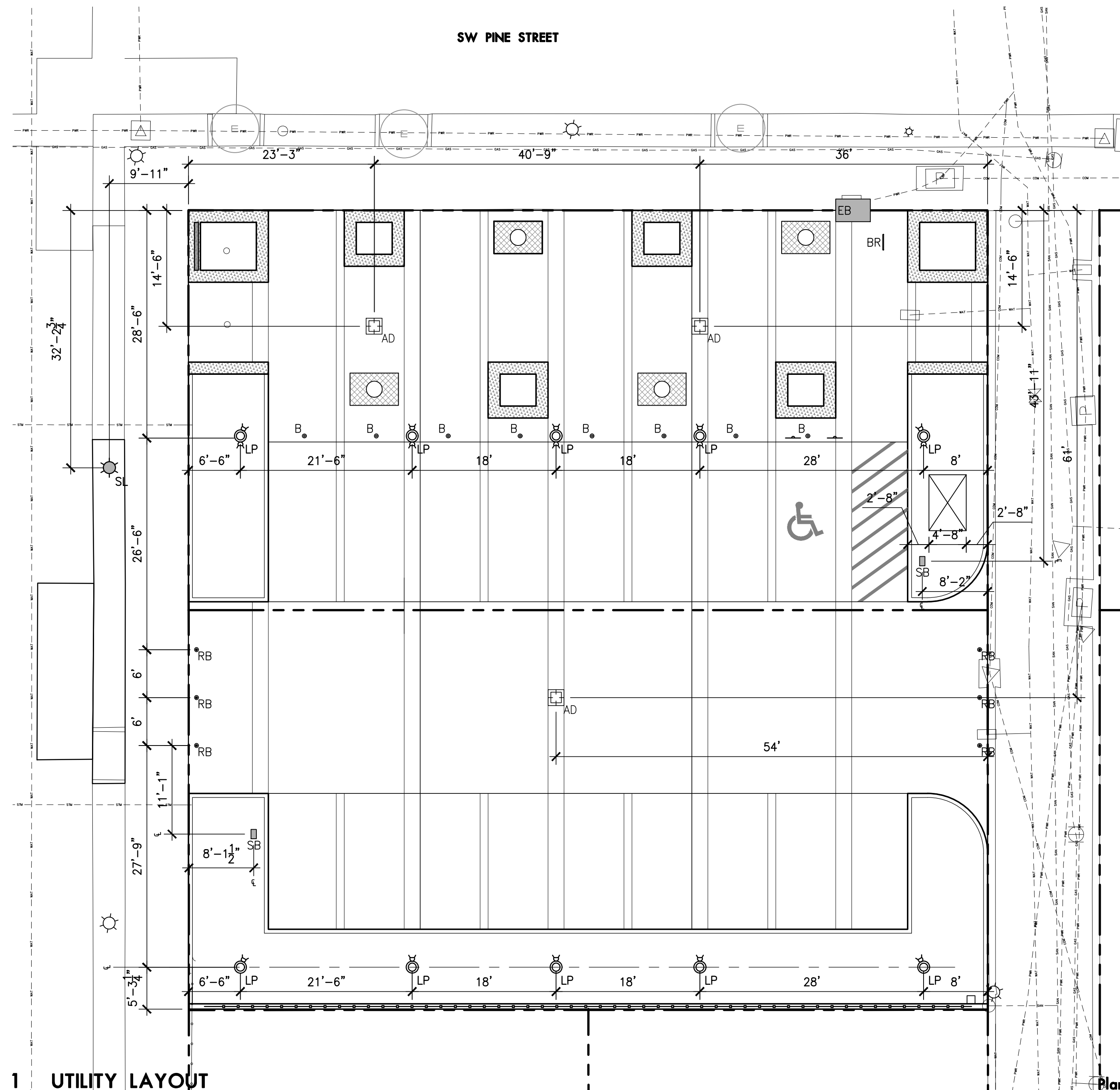
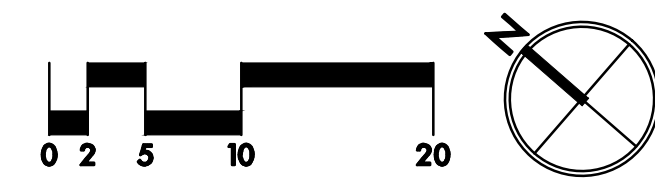
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- [Pattern] TREE GRATE
- [Pattern] PLANTING BED
- PROPOSED TREES, SEE PLANTING PLANS
- E EXISTING TREE TO REMAIN
- EB POWER CABINET SEE ELECTRICAL
- SB SPIDER BOX SEE ELECTRICAL

**LAYOUT PLAN NOTES**

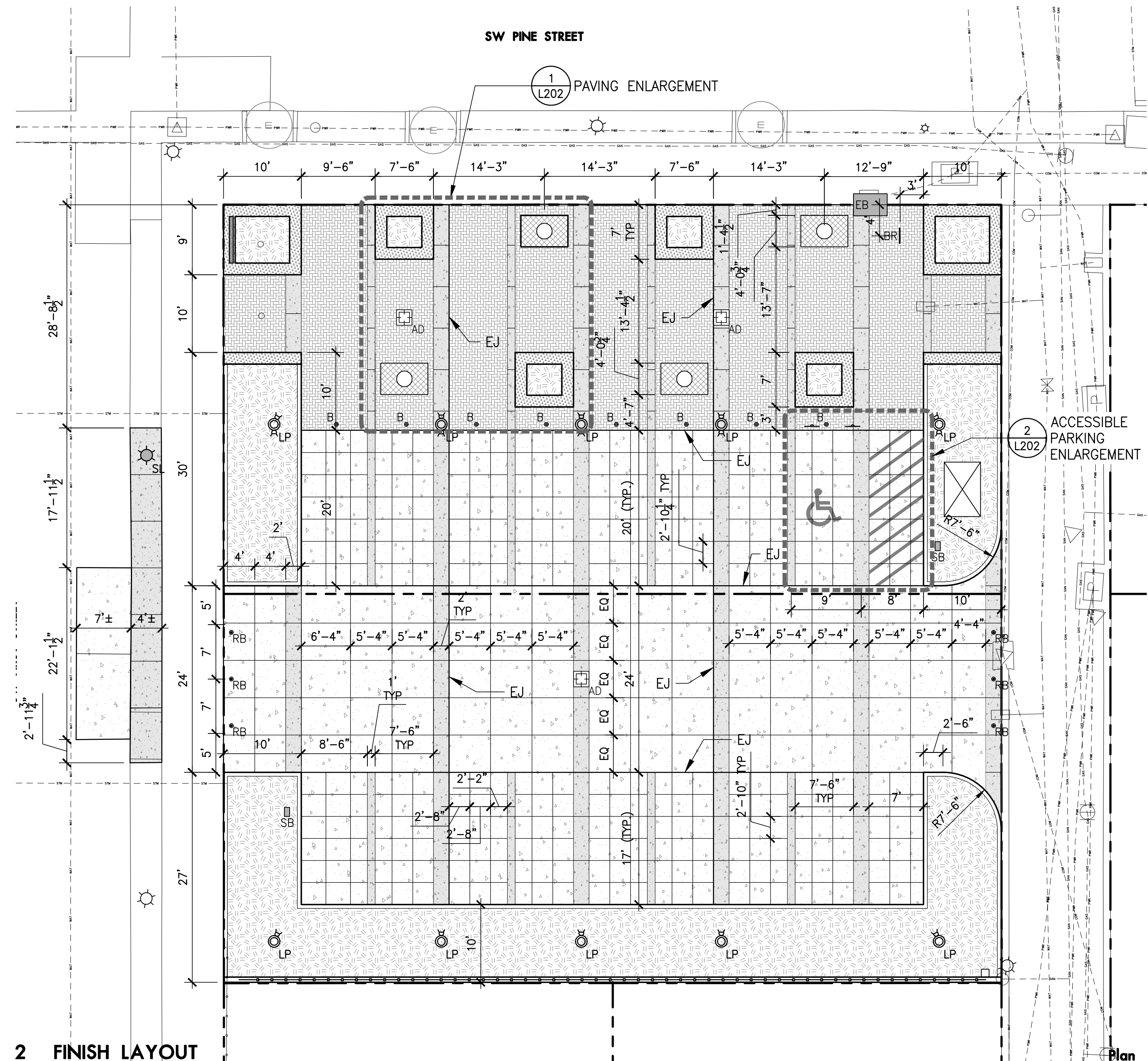
1. THIS PLAN IS BASED ON A SURVEY BY AKS ENGINEERING AND FORESTRY, DATED 04/08/2022. NOTIFY OWNER'S REPRESENTATIVE OF ANY DISCREPANCIES IDENTIFIED ON SITE RELATED TO SURVEY INFORMATION PRIOR TO INSTALLATION.
2. SEE CIVIL DRAWING FOR LOCATION OF UTILITIES.
3. FOR DIMENSIONS WHERE INCHES ARE NOT GIVEN, ASSUME 0 INCHES, SUCH THAT 2" EQUALS 2'-0"
4. PAVING DIMENSIONS ARE TO FACE BUILDING, FACE OF CURB, OR FACE OF WALL, UNLESS OTHERWISE NOTED.
5. IF THERE IS A CONFLICT WITH LAYOUT IN THE FIELD, NOTIFY THE OWNER'S REPRESENTATIVE PRIOR TO INSTALLATION.
6. INSTALL EXPANSION JOINTS AND SEALANT WHERE CONCRETE PAVING ABUTS STRUCTURES SUCH AS SITE WALLS, BUILDING EDGES, CONCRETE HEADERS, COLUMNS, FENCING STRUCTURES, AND FREE STANDING STRUCTURES, TYP.
7. DIMENSIONS TO JOINT LINES ARE TO CENTERLINES, TYP.
8. DIMENSIONS TO AREA DRAINS ARE TO CENTER POINTS, TYP.
9. DIMENSIONS TO LIGHTPOSTS ARE TO CENTERLINES, TYP.
10. SEE CIVIL DRAWINGS FOR LOCATIONS OF MANHOLES.
11. SEE ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION RELATING TO LIGHTING, TRANSFORMER, AND PEDESTALS.

**ABBREVIATIONS**

- |       |                 |
|-------|-----------------|
| ARCH  | ARCHITECTURAL   |
| CONC  | CONCRETE        |
| DWG   | DRAWINGS        |
| EJ    | EXPANSION JOINT |
| ELEC  | ELECTRICAL      |
| MECH  | MECHANICAL      |
| NIC   | NOT IN CONTRACT |
| PA    | PLANTING AREA   |
| SIM   | SIMILAR         |
| SPECS | SPECIFICATIONS  |
| STRUC | STRUCTURAL      |
| TYP   | TYPICAL         |
| W/    | WITH            |



**1 UTILITY LAYOUT**



**2 FINISH LAYOUT**

REVISIONS

NO.	DATE	DESCRIPTION

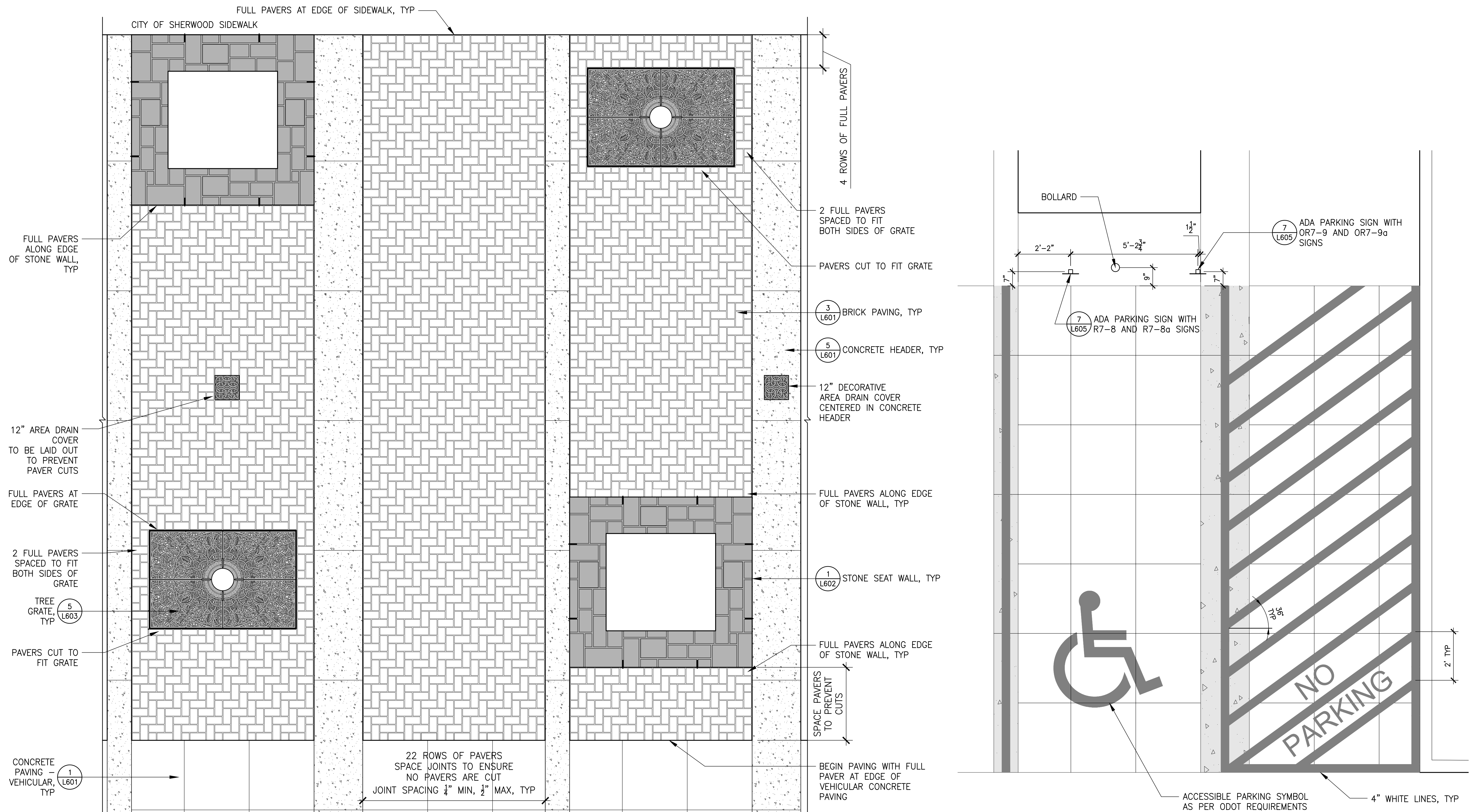
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BIDDING DOCUMENTS

SHEET TITLE

LAYOUT PLAN

**L201**



1 BRICK PAVING ENLARGEMENT

Plan  
1/2" = 1'-0"

2 ACCESSIBLE PARKING ENLARGEMENT

Plan  
1/2" = 1'-0"

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SHEET TITLE

LAYOUT ENLARGMENTS



**LEGEND**

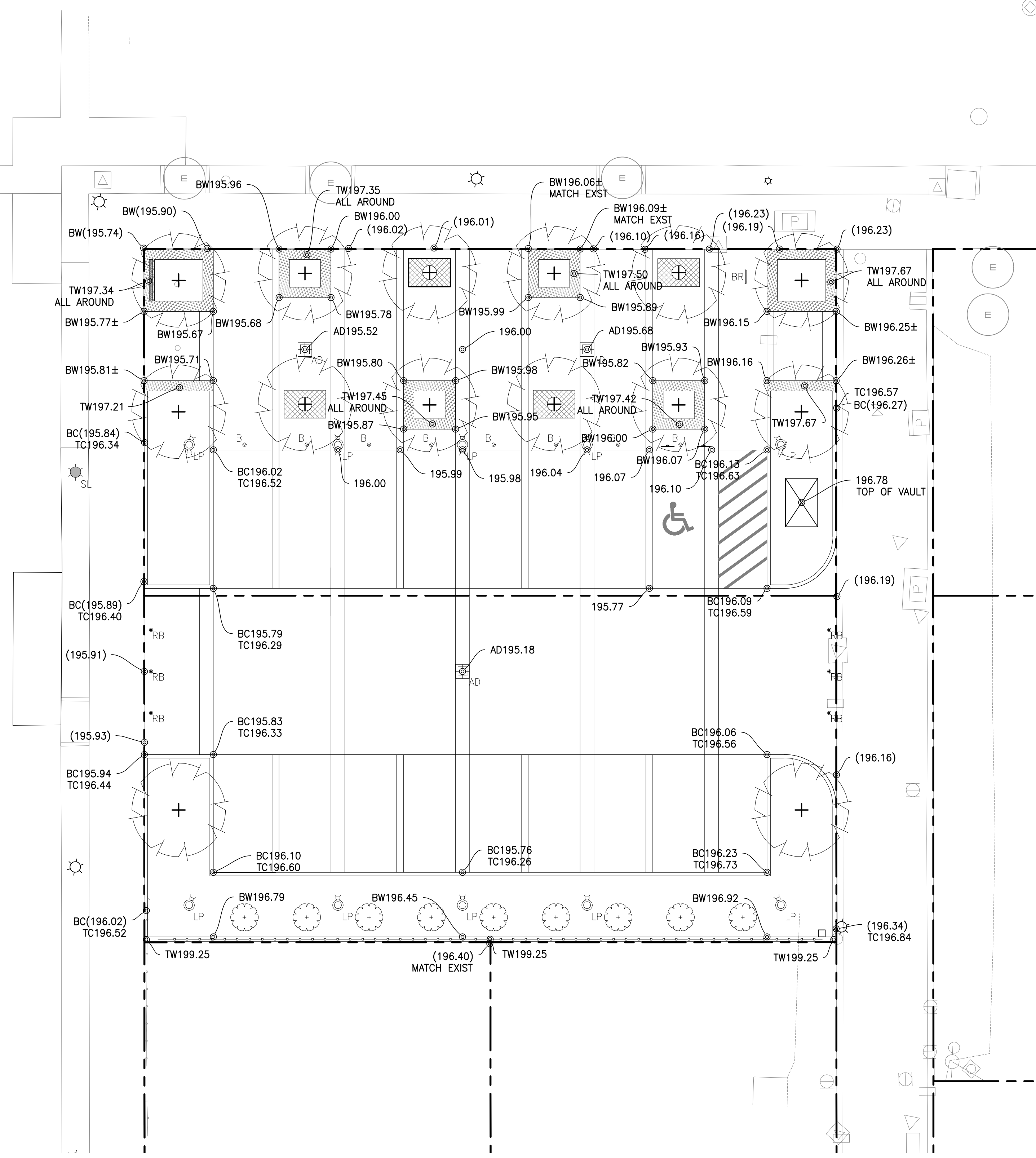
- 387— EXISTING CONTOUR
- 387— PROPOSED CONTOUR
- BOTTOM OF SWALE LINE
- - - GRADE BREAK LINE
- (485.00) EXISTING SPOT ELEVATION
- 485.00 SPOT ELEVATION
- 4.8% PERCENTAGE OF SLOPE
- DIRECTION OF SLOPE

**ABBREVIATIONS**

- AD AREA DRAIN (RIM ELEVATION)
- BC BOTTOM OF CURB
- BF BOTTOM OF FOOTING
- BR BOTTOM OF RAMP
- BW BOTTOM OF WALL (FINISH GRADE)
- CB CATCH BASIN (RIM ELEVATION)
- CTV CONTRACTOR TO VERIFY ELEVATION
- EL EQUAL
- EQ EXISTING
- EX EXISTING
- FFE FINISH FLOOR ELEVATION
- FS FINISH SURFACE
- HP HIGH POINT
- IE INVERT ELEVATION
- LP LOW POINT
- MATCH MATCH EXISTING GRADE
- MAX MAXIMUM
- MIN MINIMUM
- RIM RIM ELEVATION
- SIM SIMILAR
- TC TOP OF CURB
- TF TOP OF FOOTING
- TR TOP OF RAMP
- TW TOP OF WALL (FINISH)
- TYP TYPICAL

**GRADING NOTES**

1. SET STRAIGHT GRADES BETWEEN GIVEN ELEVATIONS UNLESS OTHERWISE INDICATED.
2. GRADE BREAK LINES ARE SHOWN GRAPHICALLY TO ILLUSTRATE DRAINAGE PATTERNS, AND ARE NOT INTENDED TO BE ACTUAL JOINT LINES, UNLESS THEY FALL ON EXPANSION JOINT LOCATIONS.
3. SEE CIVIL DRAWINGS FOR UNDERGROUND UTILITIES AND DRAINAGE FEATURES.
4. ENSURE POSITIVE DRAINAGE AWAY FROM ALL BUILDINGS AT 1% MIN.
5. SPOT ELEVATIONS TAKE PRECEDENCE OVER LANDSCAPE CONTOURS.
6. THIS GRADING PLAN IS TO BE COORDINATED WITH THE CIVIL STREET PLANS. NOTIFY OWNER'S REPRESENTATIVE IMMEDIATELY OF ANY DISCREPANCIES.
7. BOTTOM OF WALL (BW) ELEVATIONS EQUAL FINISH SURFACE OF PAVING OR FINISH GRADE, NOT TOP OF FOOTING ELEVATION.
8. CONTRACTOR TO VERIFY EXISTING GRADES AT ALL LOCATIONS WHERE NEW PAVING IS MATCHING EXISTING PAVING AND NOTIFY ARCHITECT IMMEDIATELY OF ANY DISCREPANCIES.
9. ALL ADA PARKING STALL AND WALKWAYS TO MEET LOCAL, STATE AND FEDERAL ADA REQUIREMENTS. PRIOR TO FORMING HARD SURFACE MATERIALS, CONTRACTOR TO VERIFY GRADES FOR CURB RAMPS AND PARKING LOT SPACES MEET ADA REQUIREMENTS.



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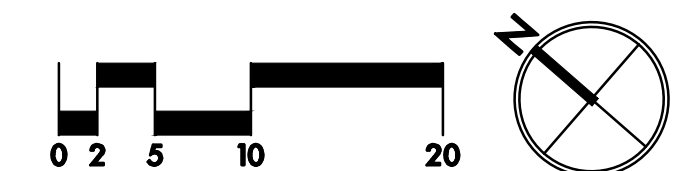
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BIDDING DOCUMENTS

SHEET TITLE

GRADING PLAN

L301





REVISIONS


SCALE 1" = 10' - 0"  
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DATE 08.30.2022  
PROJECT NO. 2150

BIDDING DOCUMENTS  
SHEET TITLE

PLANTING PLAN

L401

**PLANTING NOTES**

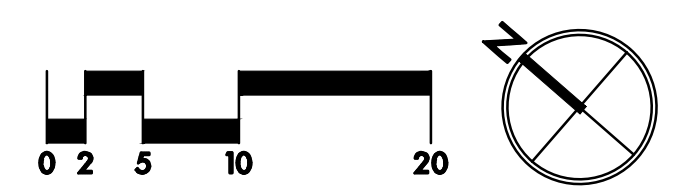
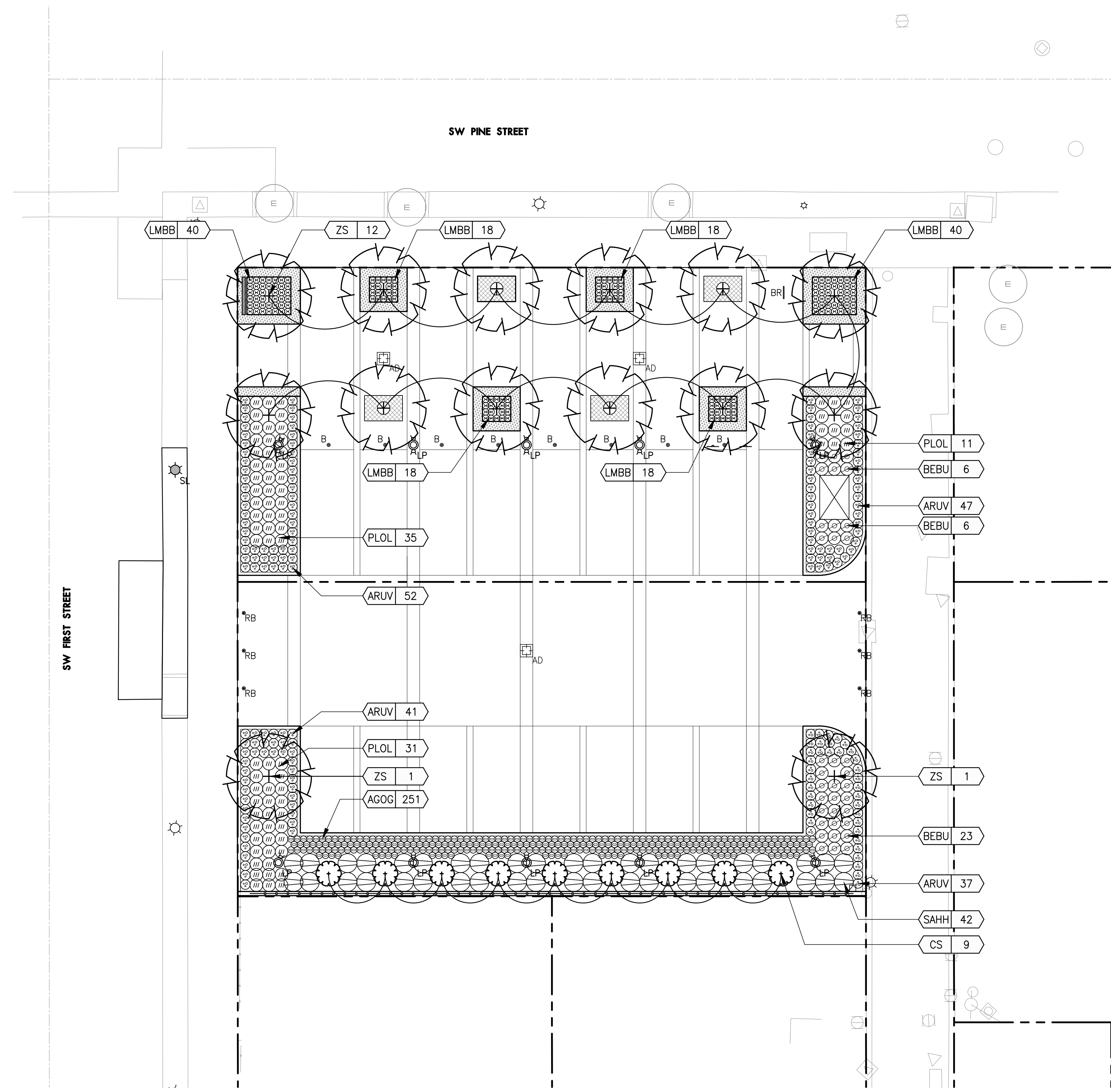
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2. PROTECT EXISTING VEGETATION TO REMAIN; SEE SPECIFICATION SECTION 015639 FOR FENCING AND OTHER REQUIREMENTS.
3. ALL PLANT MATERIAL SHALL BE NURSERY GROWN, WELL ROOTED, AND WELL BRANCHED. ALL TREES MUST BE FREE OF INSECTS, DISEASES, MECHANICAL INJURY, AND OTHER OBJECTIONABLE FEATURES WHEN PLANTED. ALL PLANT MATERIAL SHALL CONFORM TO "AMERICAN STOCK STANDARDS" LATEST EDITION.
4. ALL PLANT MATERIAL TO BE APPROVED BY OWNER'S REPRESENTATIVE PRIOR TO INSTALLATION. SEE SPECIFICATIONS.
5. PLANT SPACING SHALL TAKE PRECEDENCE OVER VALVE BOX LOCATIONS. INSTALLED VALVE BOXES THAT CONFLICT WITH ACCEPTED PLANT LAYOUT SHALL BE MOVED TO POSITION BETWEEN PLANTS.
6. PLANT COUNTS FOR TREES AND SHRUBS ARE SUPPLIED FOR THE CONTRACTOR'S CONVENIENCE. CONTRACTOR RESPONSIBLE FOR INSTALLING ALL PLANTS IN LOCATIONS AND QUANTITIES SHOWN.
7. CLEAR PLANT BEDS OF ALL GRAVEL AND DEBRIS PRIOR TO SOIL PREPARATION AND PLANTING, FOR APPROVAL BY OWNER'S REPRESENTATIVE.
8. REPAIR AND RESEED ALL LAWN AREAS DISTURBED BY CONSTRUCTION ACTIVITY, INCLUDING SOIL PREPARATION. SEE 329100 AND 329300.
9. ALL PLANTING AREAS ARE TO BE IRRIGATED WITH A PERMANENT AUTOMATIC IRRIGATION SYSTEM EXCEPT RESEEDING DISTURBED AREAS, THOSE ARE TO BE NON-IRRIGATED.
10. ALL PARKING LOT AND STREET TREES MUST HAVE 6' CLEAR HEIGHT TO LOWEST BRANCHES.

**PLANT SCHEDULE: TREES**

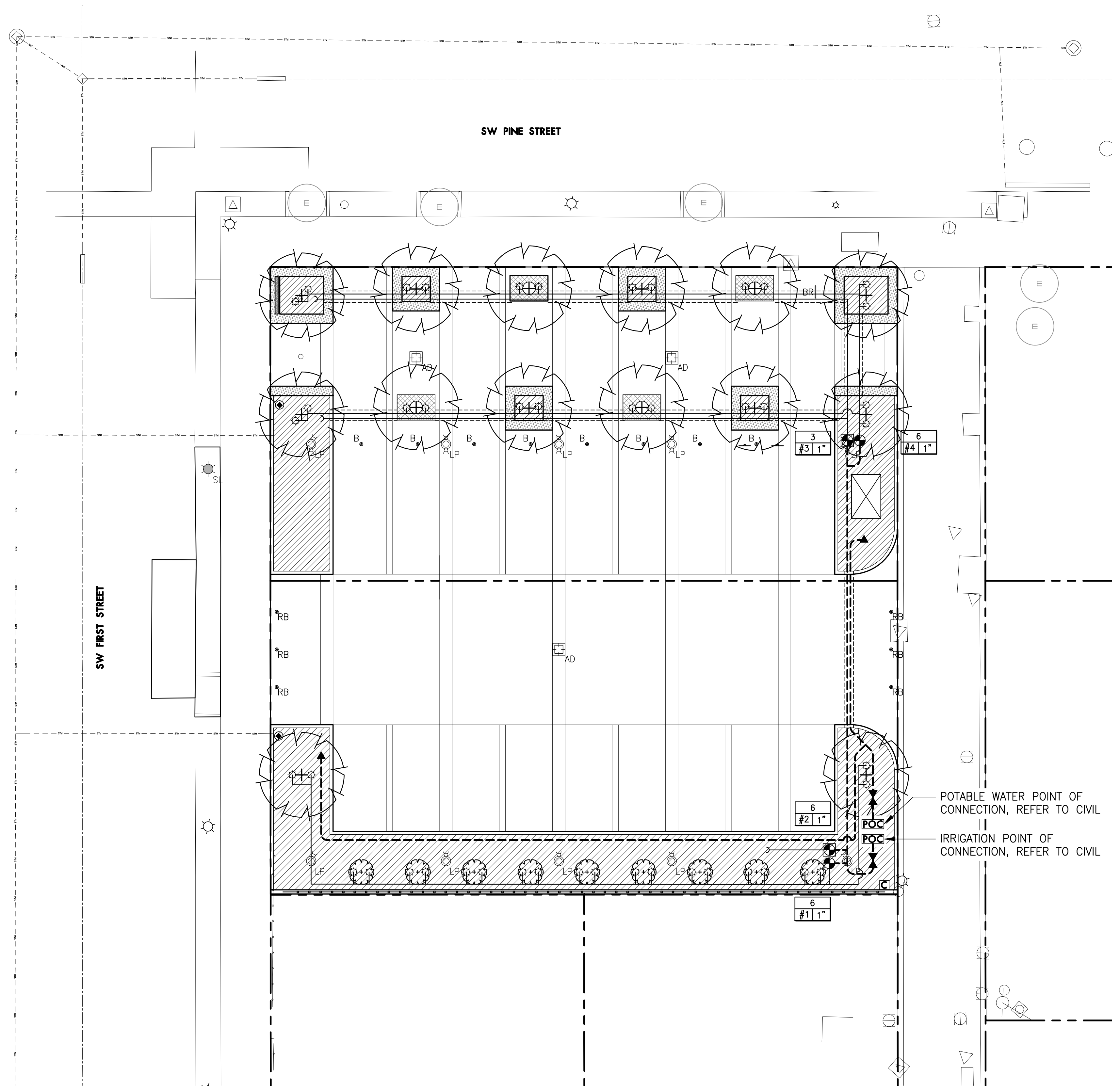
SYM	ABBR	QTY	BOTANICAL NAME	COMMON NAME	SIZE/COND	SPACING
	CS	9	Cupressus sempervirens cvs.	Italian Cypress	14' HT. B&B	AS SHOWN
	ZS	14	Zelkova serrata 'Green Vase'	Green Vase Zelkova	3" CAL B&B	AS SHOWN

**PLANT SCHEDULE: SHRUBS AND GROUNDCOVER**

SYM	ABBR	QTY	BOTANICAL NAME	COMMON NAME	SIZE/COND	SPACING
	AGOG	251	Acorus gramineus 'Ogon'	Golden Sweet Flag	#1 CONT	AS SHOWN
	ARUV	177	Arctostaphylos uva-ursi 'Emerald Carpet'	'Emerald Carpet' Kinnickinnick	#1 CONT	AS SHOWN
	BEBU	35	Berberis buxifolia 'Nana'	Dwarf Magellan Barberry	#5 CONT	AS SHOWN
	LMBB	152	Liriope muscari 'Big Blue'	Big Blue Lilyturf	#1 CONT	AS SHOWN
	PLOL	77	Prunus laurocerasus 'otto luyken'	Otto Luyken Dwarf English Laurel	#5 CONT	AS SHOWN
	SAHH	42	Sarcococca hookeriana var humilis	Fragrant Sarcococca	#5 CONT	AS SHOWN







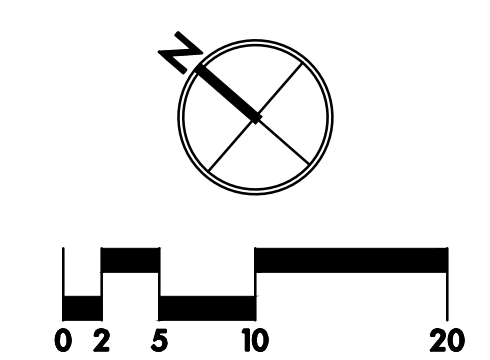
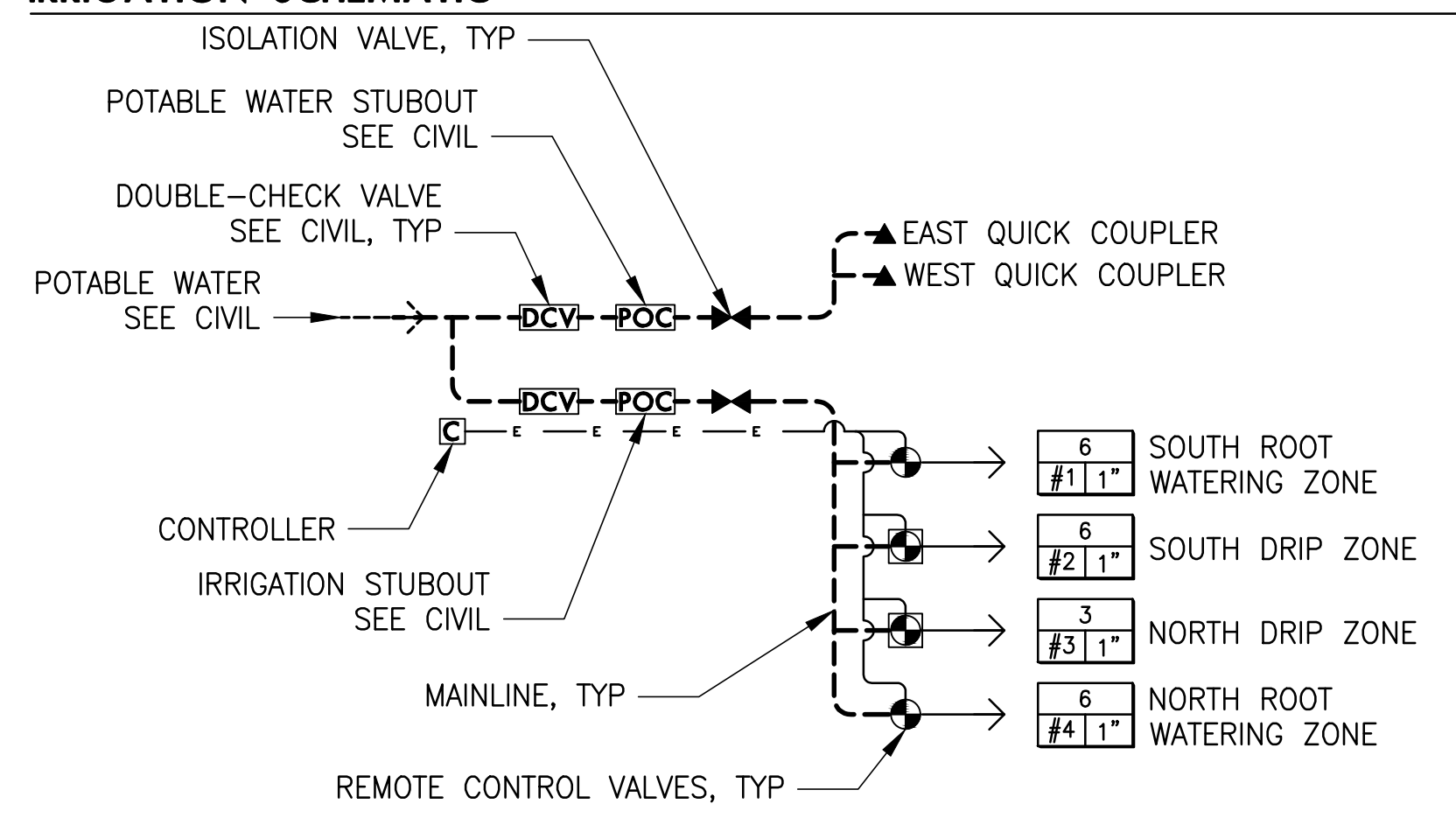
**IRRIGATION LEGEND**

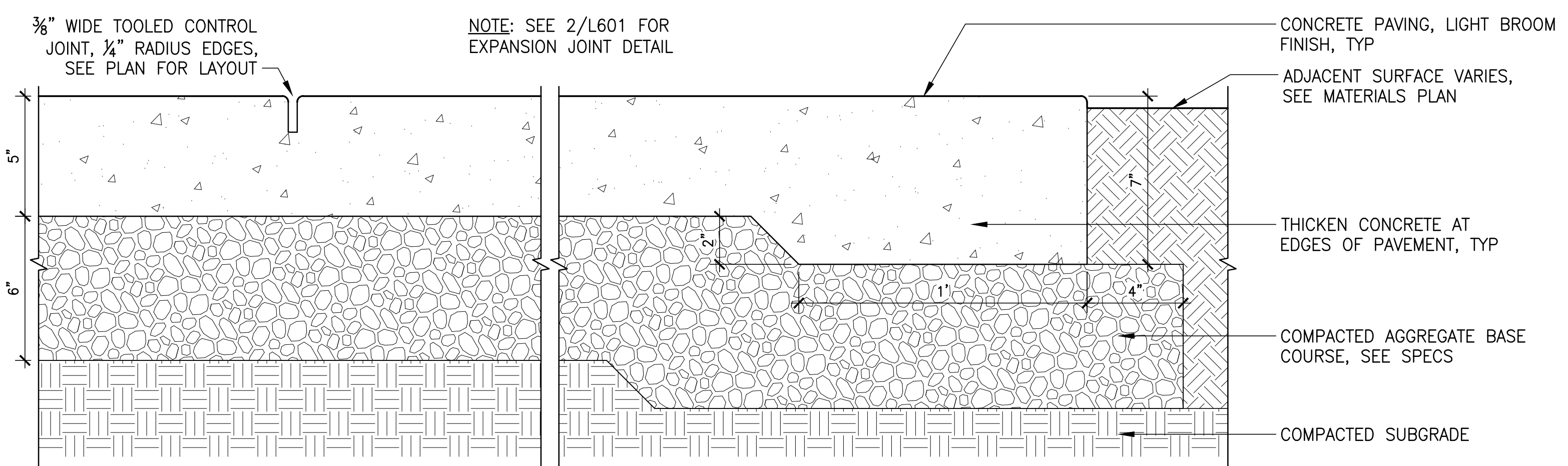
EQUIPMENT	
Symbol	Description
	REMOTE CONTROL VALVE
	DRIP CONTROL ZONE KIT
	ISOLATION VALVE
	QUICK COUPLER
	DRIP ZONE MANUAL DRAIN VALVE OR AIR RELIEF VALVE
	CONTROLLER, SEE SPECS AND DETAILS
	POINT-OF-CONNECTION
	DOUBLE-CHECK VALVE
	ROOT ZONE WATERING SYSTEM
	MAINLINE, SCH. 40 PVC, 2" OR AS NOTED
	IRRIGATION SLEEVE, SCH. 40 PVC, 4" OR AS NOTED
	LATERAL LINE, CLASS 200 PVC, SIZE AS NOTED
	IRRIGATION DRIPLINE AREA
	ELECTRICAL CONDUIT
	23.8 → GALLONS PER MINUTE 8 1/2" → VALVE SIZE
	→ ZONE NUMBER

**IRRIGATION NOTES**

1. THIS PLAN IS BASED ON A SURVEY BY AKS ENGINEERING AND FORESTRY, DATED 04/08/2022. NOTIFY OWNER'S REPRESENTATIVE OF ANY DISCREPANCIES IDENTIFIED ON SITE RELATED TO SURVEY INFORMATION PRIOR TO INSTALLATION.
2. INSTALL IRRIGATION SYSTEM IN ACCORDANCE WITH ALL LOCAL CODES AND ORDINANCES.
3. PRIOR TO COMMENCEMENT OF ANY IRRIGATION WORK, VERIFY MINIMUM FLOW RATE OF 25GPM AND MINIMUM DYNAMIC (WORKING) PRESSURE OF 40PSI WHEN FLOWING AT MIN FLOW RATE AT THE POINT OF CONNECTION.
4. ALL TRENCHING WITHIN ROOT PROTECTION ZONES SHALL COMPLY WITH THE REQUIREMENTS SPECIFIED IN THE TREE PROTECTION PLANS AND SECTION 015639.
5. COORDINATE ALL IRRIGATION WORK WITH OTHER TRADES AS REQUIRED, INCLUDING POINT(S)-OF-CONNECTION AND CONTROLLER INSTALLATION.
6. IRRIGATION PLANS ARE DIAGRAMMATIC. ALL VALVES AND IRRIGATION HEADS SHALL BE LOCATED IN PLANTED AREAS. FIELD ADJUST LINES TO AVOID CONFLICTS WITH STRUCTURES AND UTILITIES.
7. ALL PIPES AND EQUIPMENT SHOWN IN PAVED AREAS IS FOR GRAPHIC CLARITY ONLY. ALL PIPES AND EQUIPMENT SHALL BE IN PLANTING AREAS UNLESS OTHERWISE NOTED.
8. PROVIDE SLEEVES UNDER ALL PAVED AREAS FOR IRRIGATION MAINLINE AND LATERALS.
9. ALL VALVES (EXCEPT FOR MANUAL DRAIN VALVES ON DRIP ZONES) AND THE MAINLINE MUST BE LOCATED WITHIN PROPERTY LINE.
10. COORDINATE IRRIGATION POINTS OF CONNECTION AND LOCATION OF REMOTE CONTROL VALVE ASSEMBLIES AND SLEEVES. COORDINATE ALL WORK WITH OTHER TRADES INVOLVED.
11. PLACE ALL VALVES IN VALVE BOXES AND IN A MANNER THAT FACILITATES ACCESS FOR MAINTENANCE. SIZE BOXES TO ACCOMMODATE COMPLETE VALVE ASSEMBLY. MAINTAIN MIN. 12" BETWEEN VALVE BOXES AND PAVEMENT.
12. IRRIGATION LATERALS ARE SIZED STARTING AT VALVE AND CONTINUING IN DIRECTION OF FLOW. REDUCTIONS IN PIPE SIZE ARE LABELED BEGINNING DOWNSTREAM OF NEAREST FITTING. ALL LATERALS NOT SIZED ARE MINIMUM 3/4" OR SAME SIZE AS NEAREST ADJACENT PIPE.
13. CONTRACTOR TO MARK LAYOUT OF TRENCHES AND VALVE LOCATIONS FOR PREVIEW BY OWNER IN FIELD PRIOR TO CONSTRUCTION.
14. INSTALL AND ADJUST ALL COMPONENTS OF IRRIGATION SYSTEM TO PROVIDE 100% COVERAGE OF ALL PLANTING AREAS AND MINIMIZE OVERSPRAY ONTO BUILDINGS AND PAVING AREAS. CONTRACTOR IS RESPONSIBLE FOR PROVIDING A COMPLETE WORKING SYSTEM.
15. PROVIDE 12" POP-UP SPRINKLER BODIES FOR ALL SHRUB AND GROUND COVER BEDS, AND 6" SPRINKLER BODIES FOR LAWN AREAS AND SHRUB BEDS IMMEDIATELY ADJACENT TO PARKING AREAS.

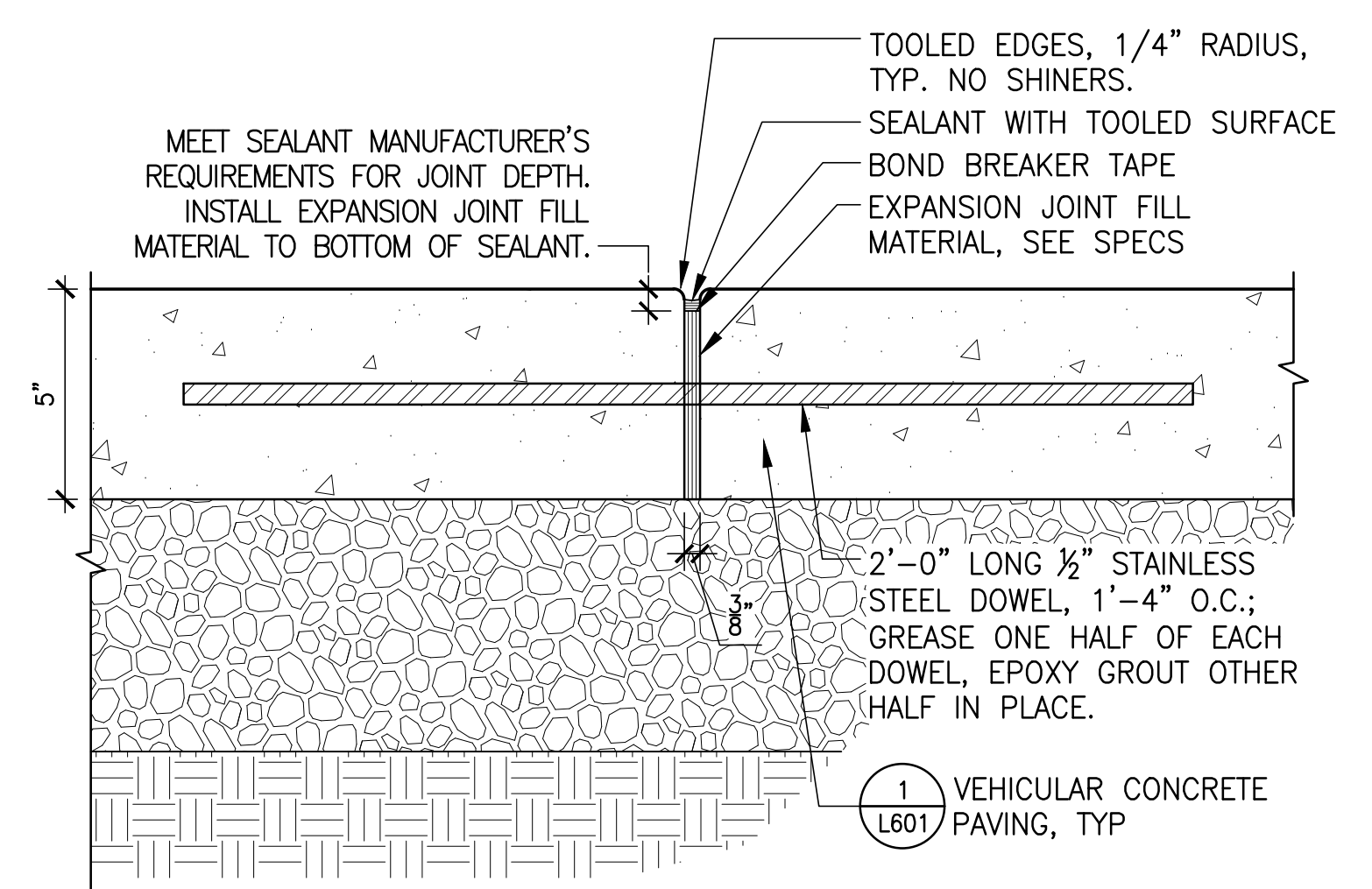
**IRRIGATION SCHEMATIC**





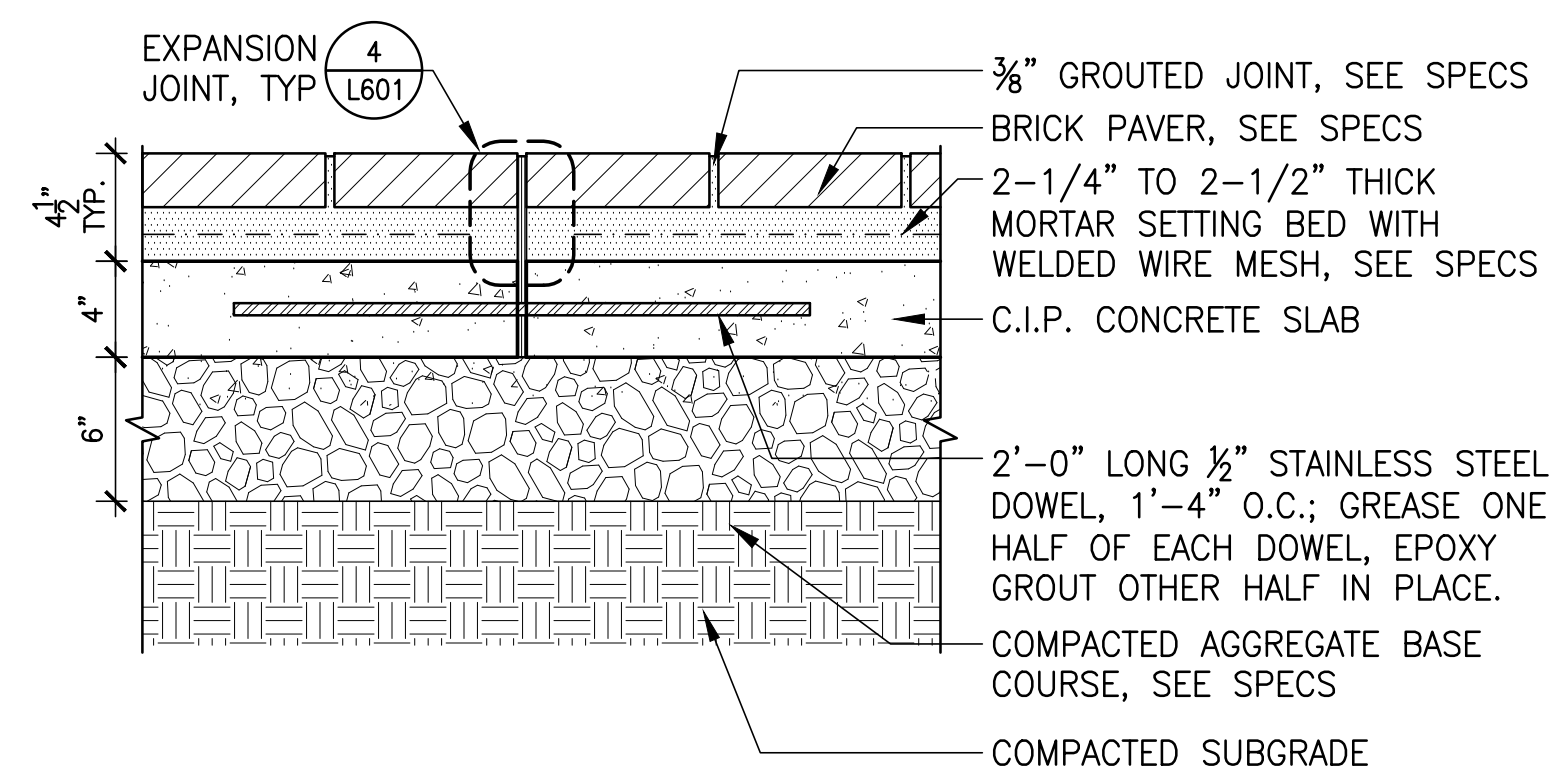
1 CONCRETE PAVING - VEHICULAR

Section  
3' = 1'-0"



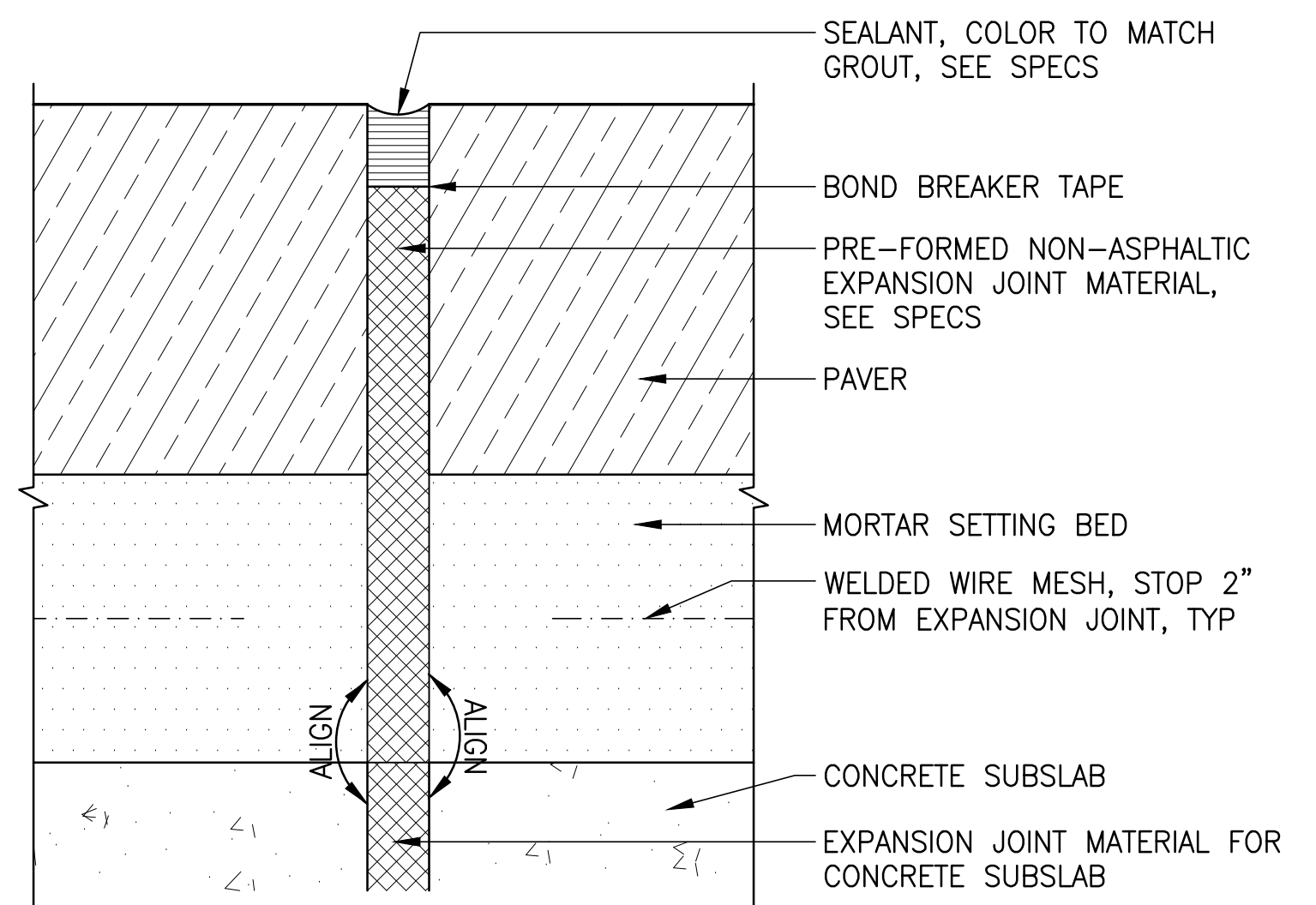
2 EXPANSION JOINT - VEHICULAR CONCRETE PAVING

Section  
3' = 1'-0"



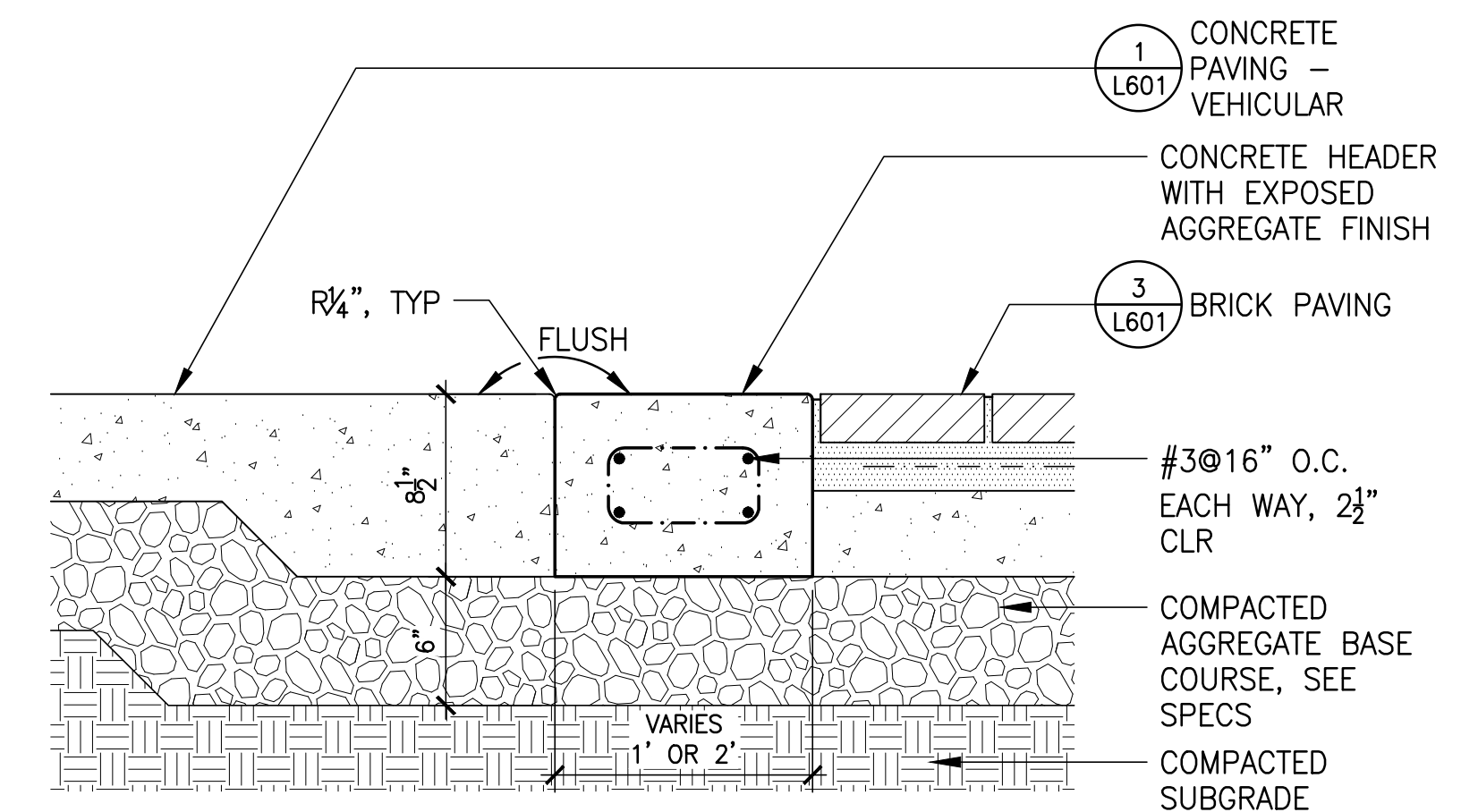
3 BRICK PAVING

Section  
1 1/2' = 1'-0"



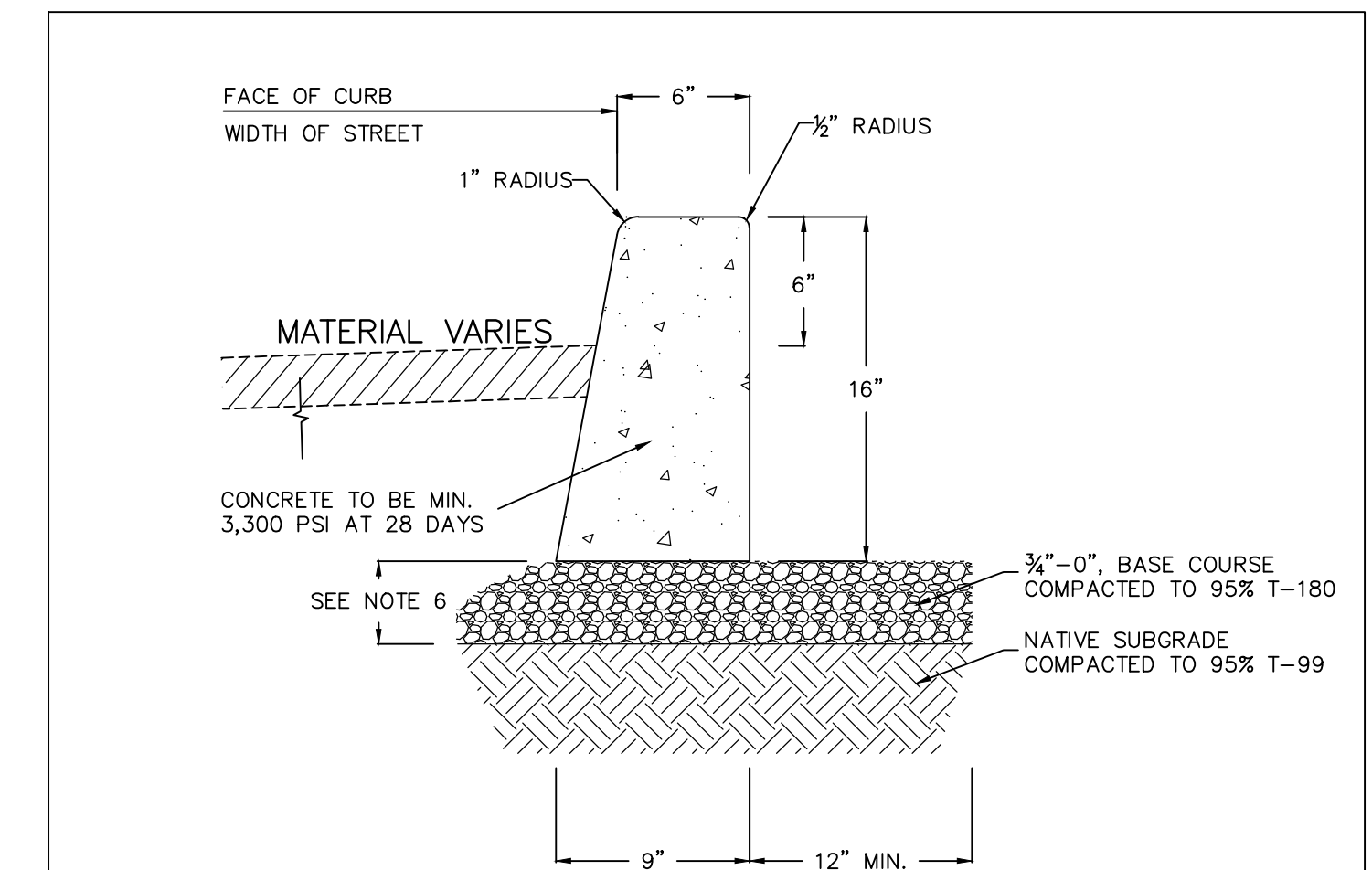
4 BRICK PAVING EXPANSION JOINT

Section  
1' = 1'



5 CONCRETE HEADER

Section  
1 1/2' = 1'-0"



- NOTES:
1. VERTICAL CURB TO BE USED AT MEDIANS AND MEDIAN PLANTING STRIPS, OR IN REPLACEMENT OF DAMAGED EXISTING VERTICAL CURBS.
  2. CONCRETE SHALL BE COMMERCIAL MIX. MIN. COMPRESSIVE STRENGTH OF 3,300 PSI AT 28 DAYS.
  3. EXPANSION JOINTS TO BE PROVIDED: AT POINT OF TANGENCY OF THE CURB, AT EACH COLD JOINT, AT THE SIDE OF INLET STRUCTURES, AT THE ENDS OF DRIVEWAYS AND AT LOCATIONS NECESSARY TO LIMIT SPACING TO 45 FEET.
  4. MATERIAL TO BE PRE-MOLDED, ASPHALT IMPREGNATED, NON-EXTRUDING, WITH A THICKNESS OF 1/2 INCH.
  5. CONTRACTION JOINTS SHALL NOT BE SPACED MORE THAN 15 FEET AND SHALL BE 1 1/2" IN DEPTH.
  6. BASE ROCK: 3/4"-0", COMPACTED TO 95% MAX DENSITY. BASE ROCK SHALL BE TO SUBGRADE OF STREET STRUCTURE OR 6" IN DEPTH, WHICHEVER IS GREATER.

6 CONCRETE CURB

Section  
NTS

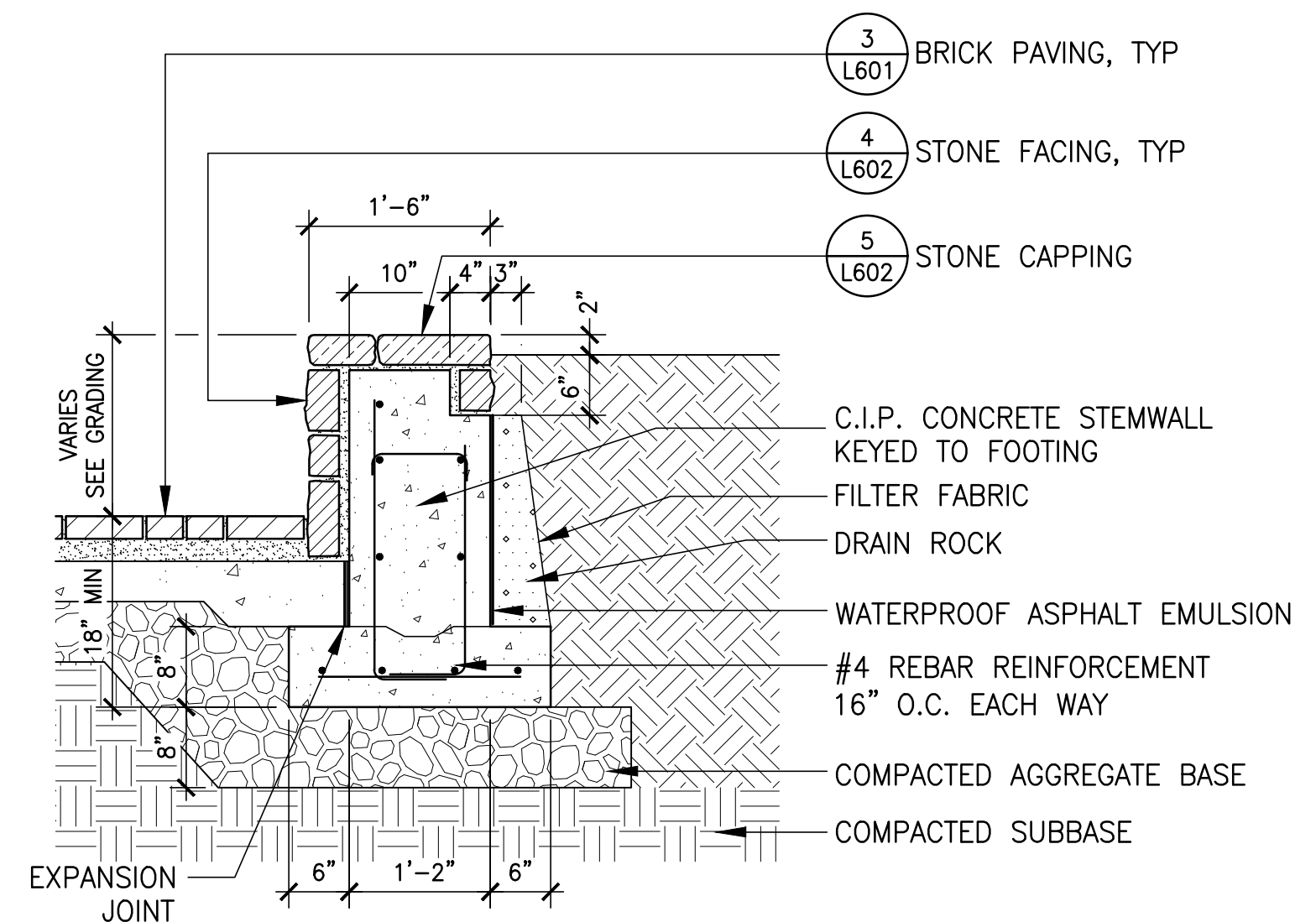
SHERWOOD OREGON	STANDARD DRAWING TITLE	DRAWING NUMBER
	VERTICAL CURB	RD-21
Any alteration of this drawing may not be associated in any way with the City of Sherwood Standard Drawings.	SCALE	DATE
	N.T.S.	MAR '16

REVISIONS

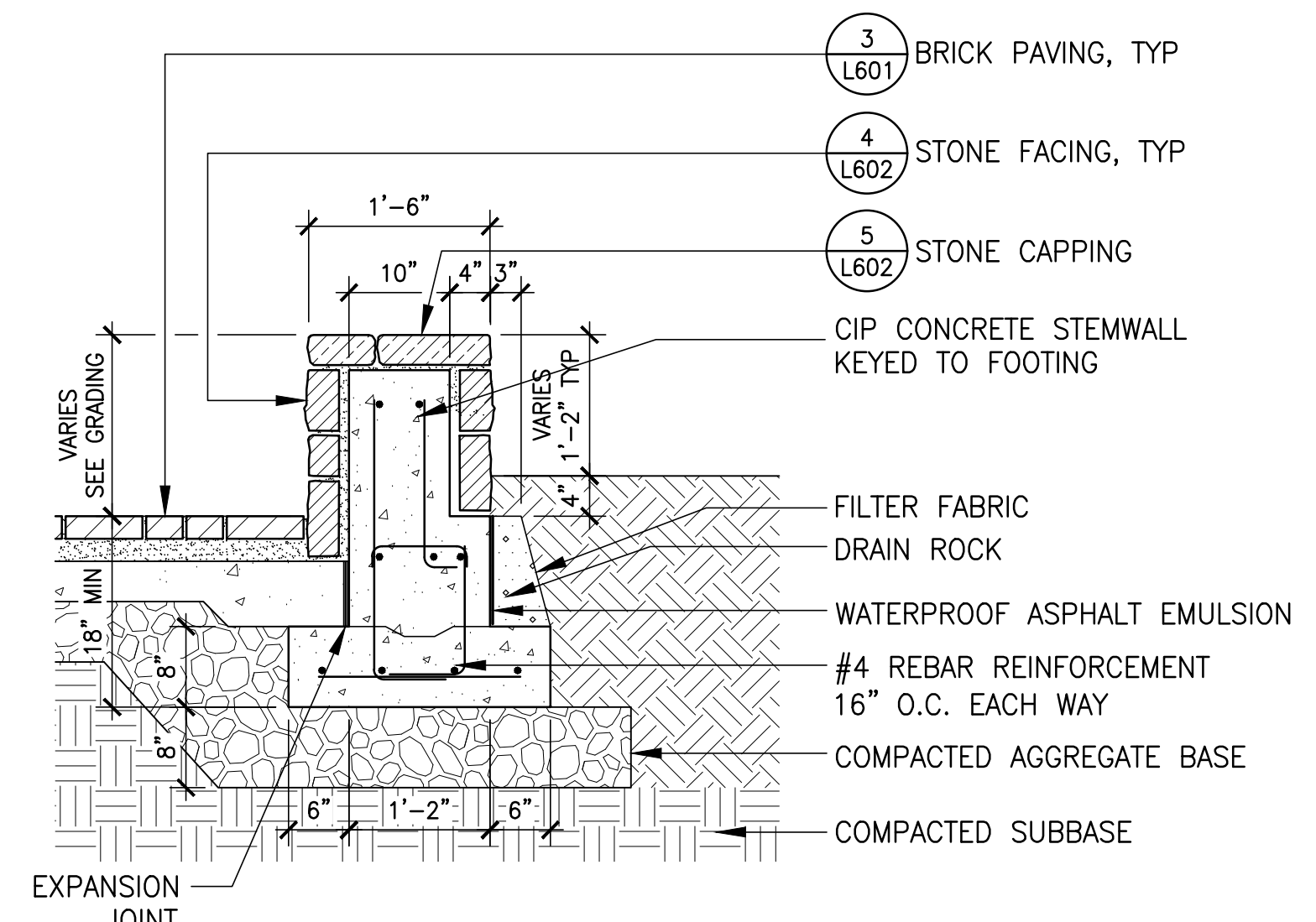

SCALE AS SHOWN  
DRAWN BY BAH  
DATE 08.30.2022  
PROJECT NO. 2150

BIDDING DOCUMENTS  
SHEET TITLE

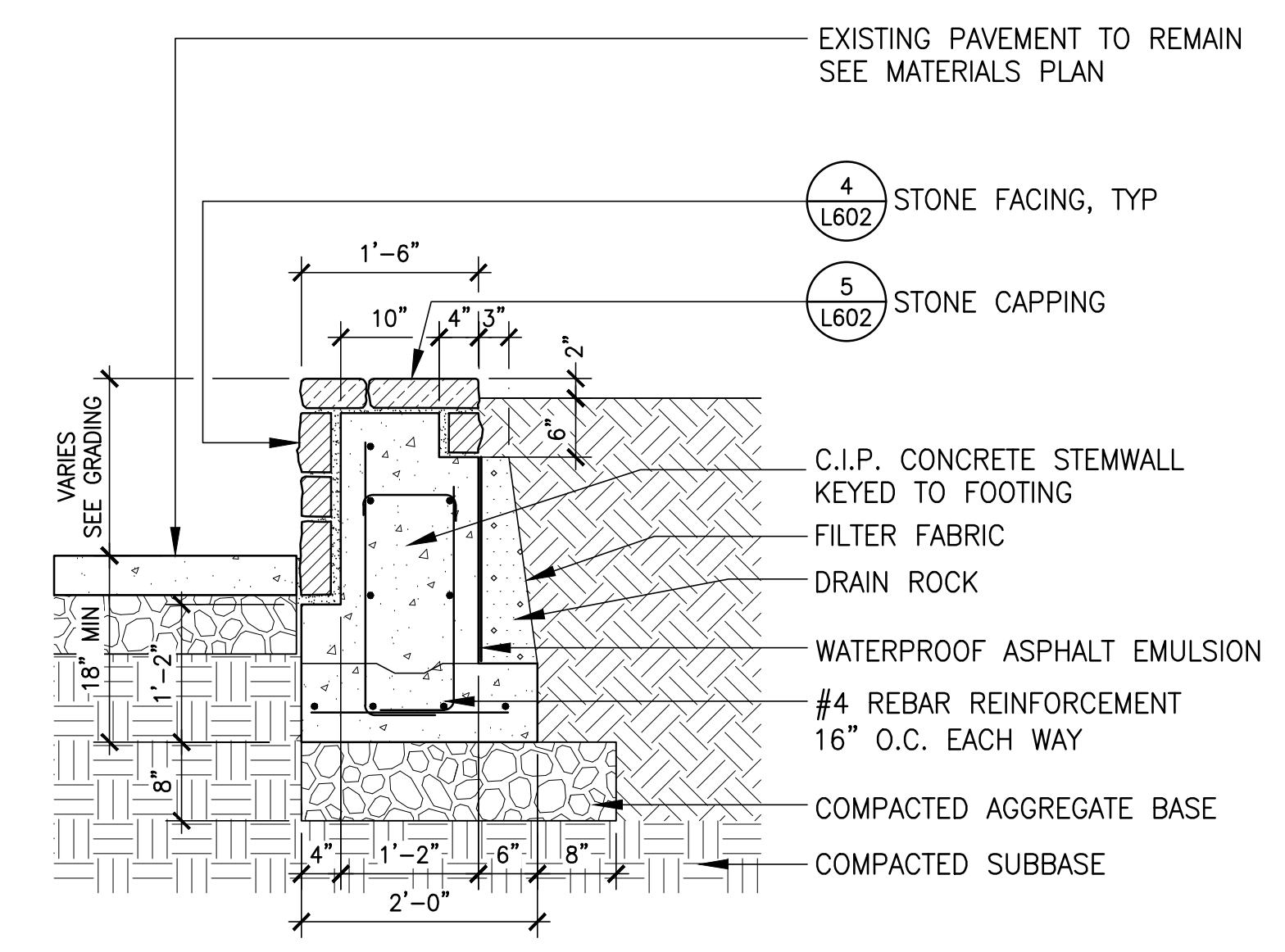
DETAILS



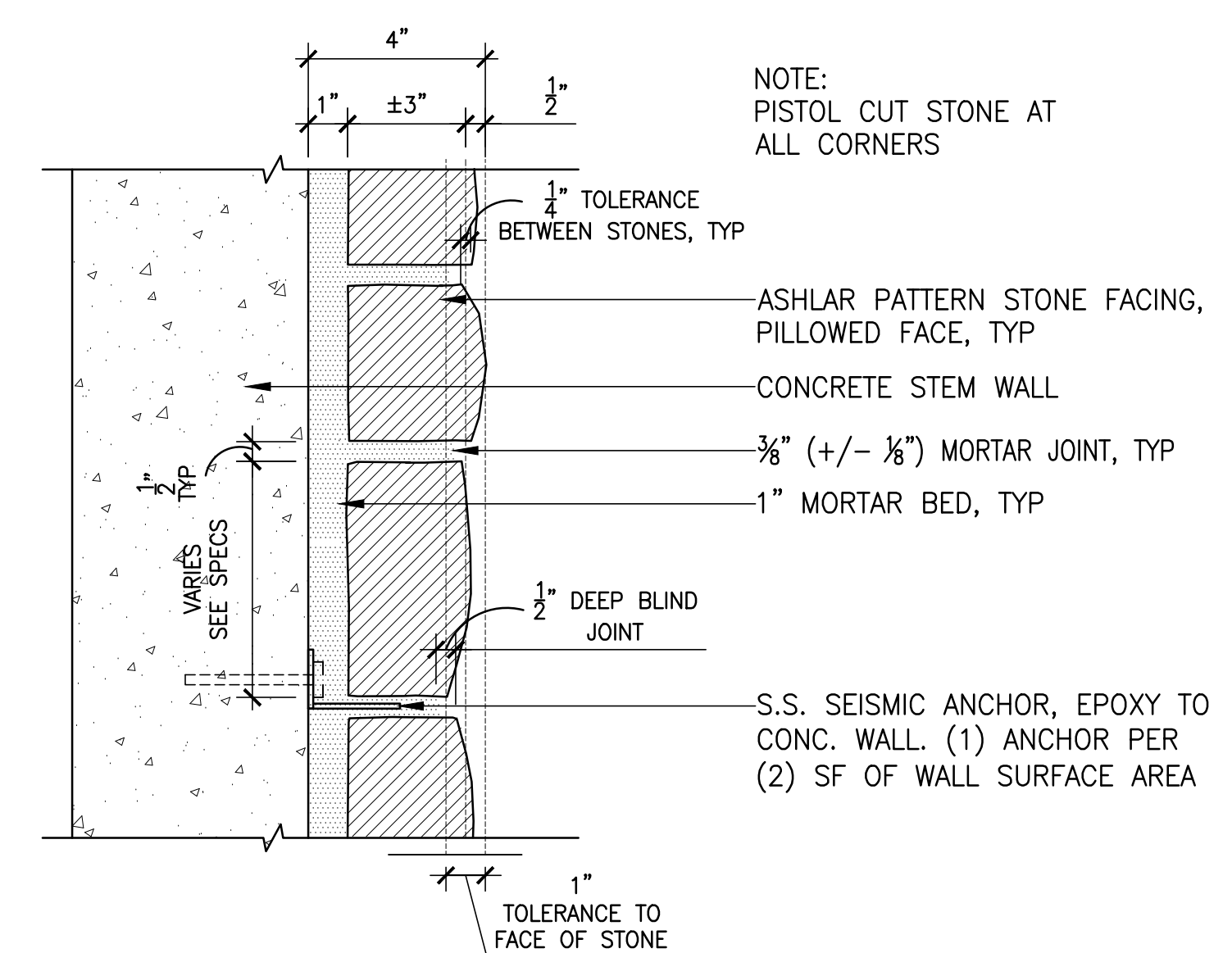
**1 STONE SEAT WALL** Section  
3/4" = 1'-0"



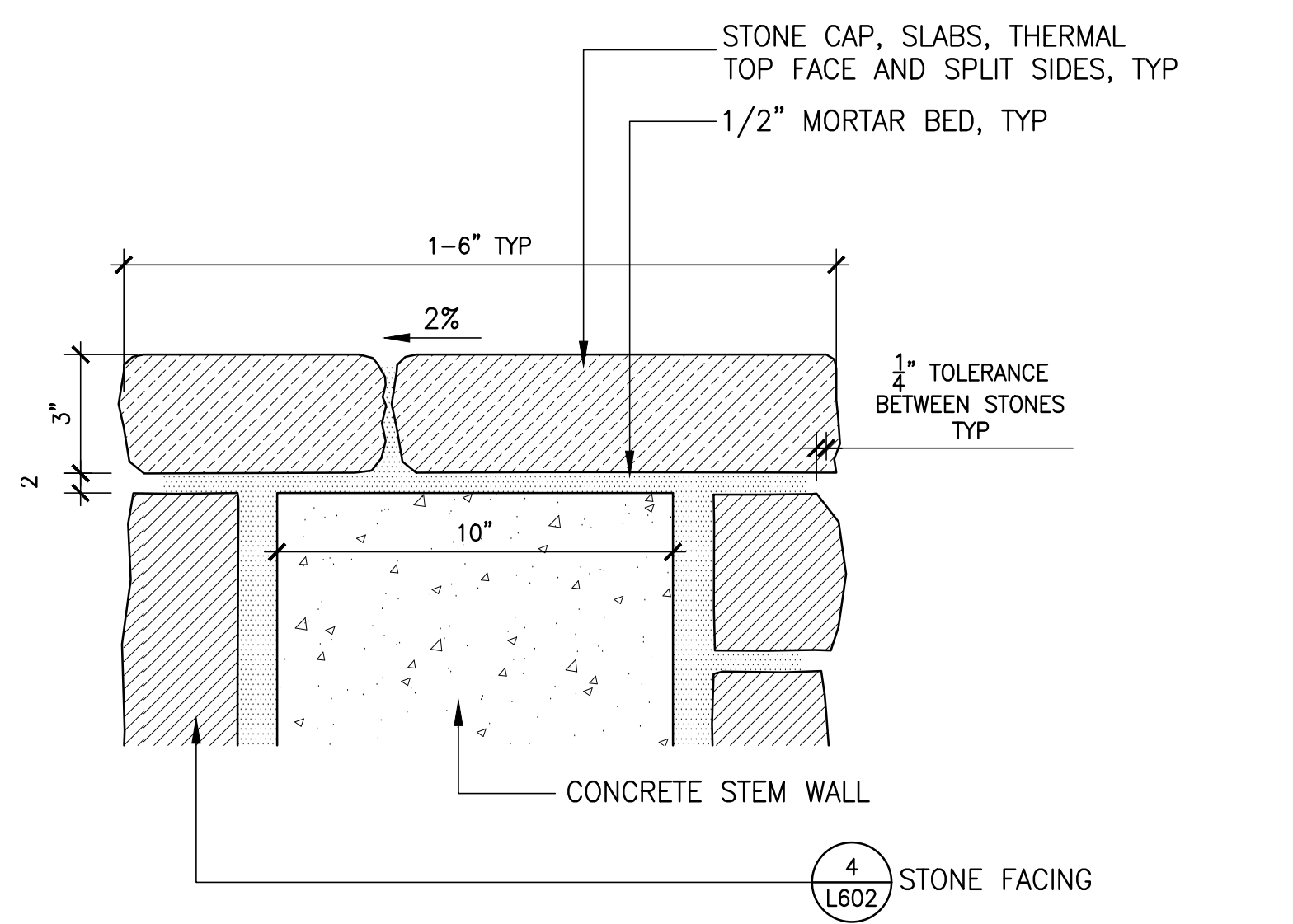
**2 FREESTANDING STONE WALL** Section  
3/4" = 1'-0"



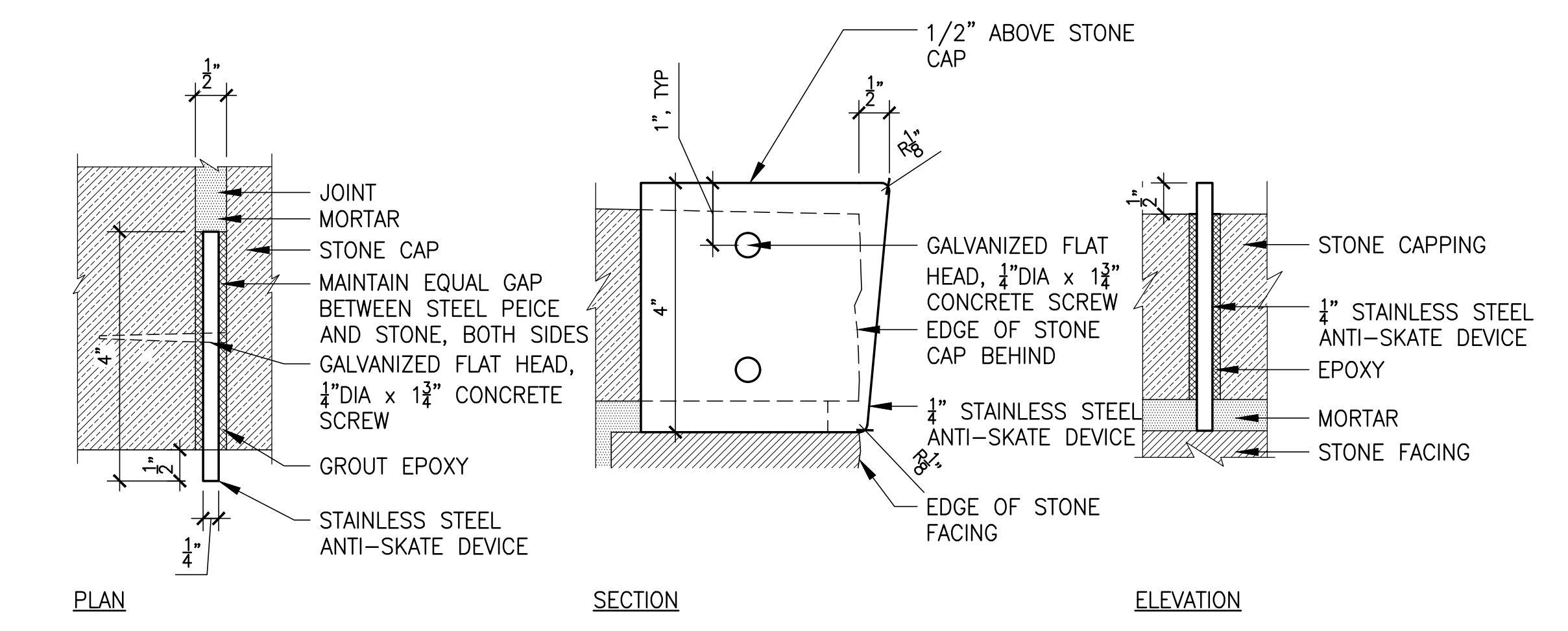
**3 STONE SEAT WALL AT EXISTING PAVING** Section  
3/4" = 1'-0"



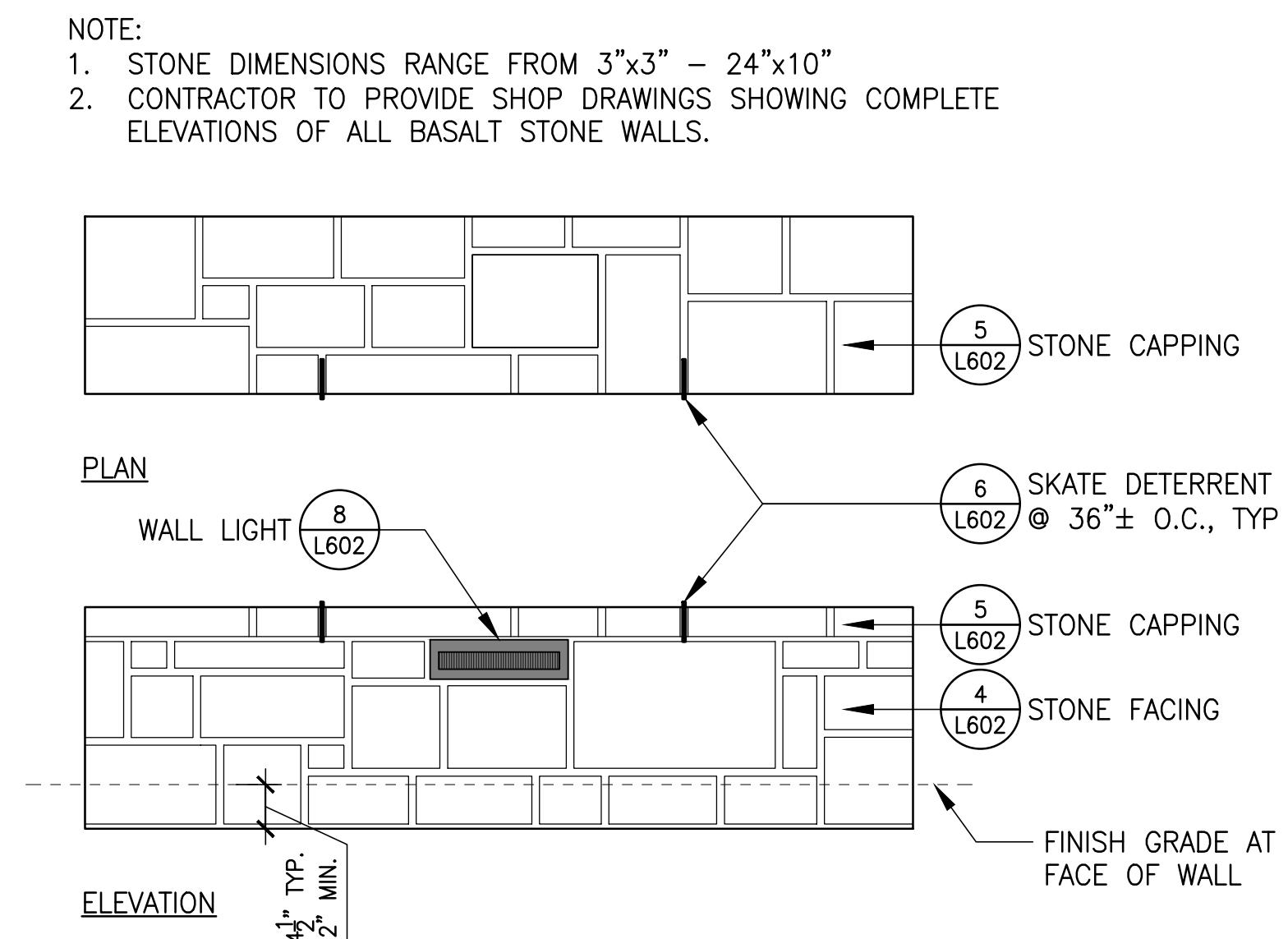
**4 STONE FACING** Section  
3/4" = 1'-0"



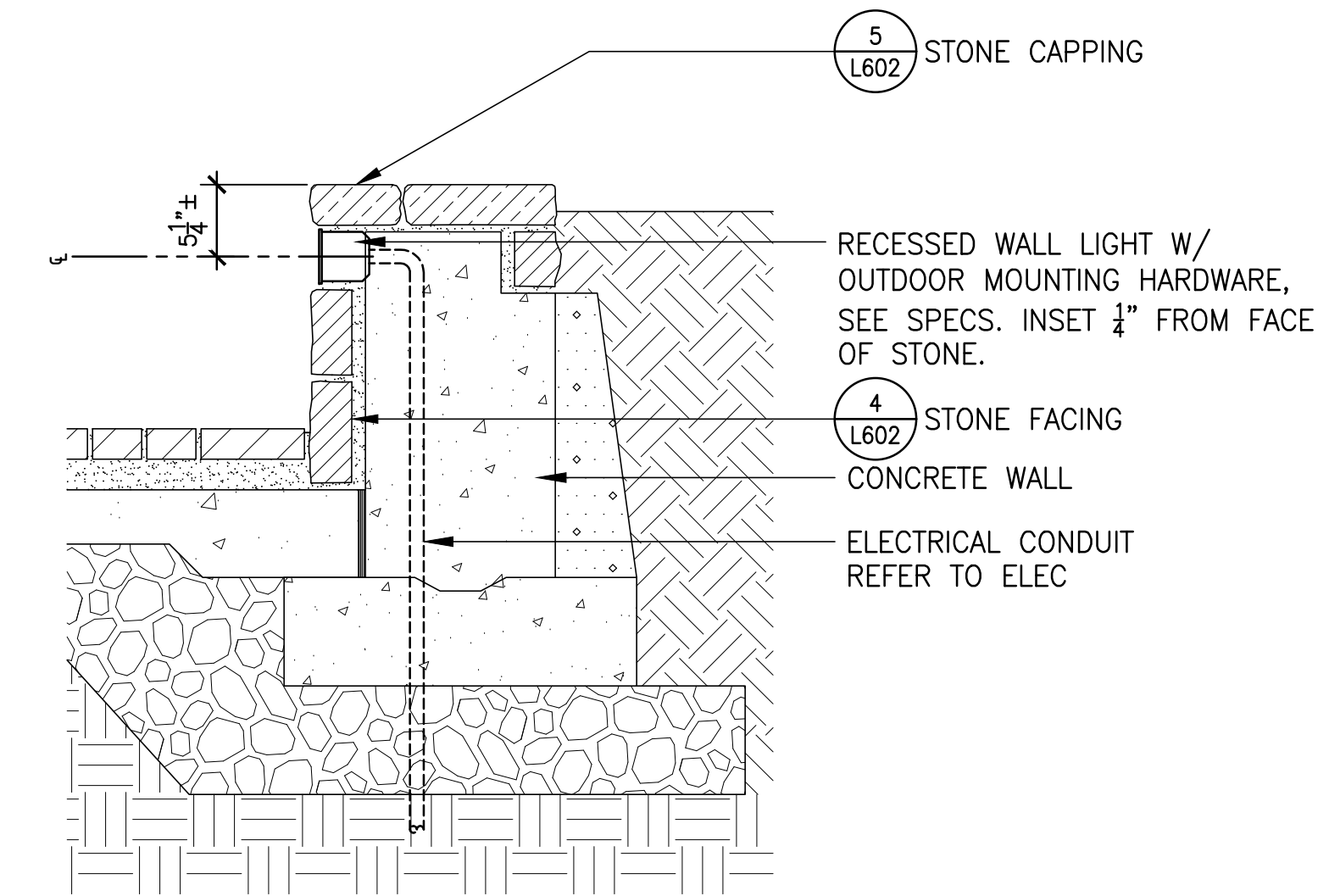
**5 STONE CAPPING** Section  
3" = 1'-0"



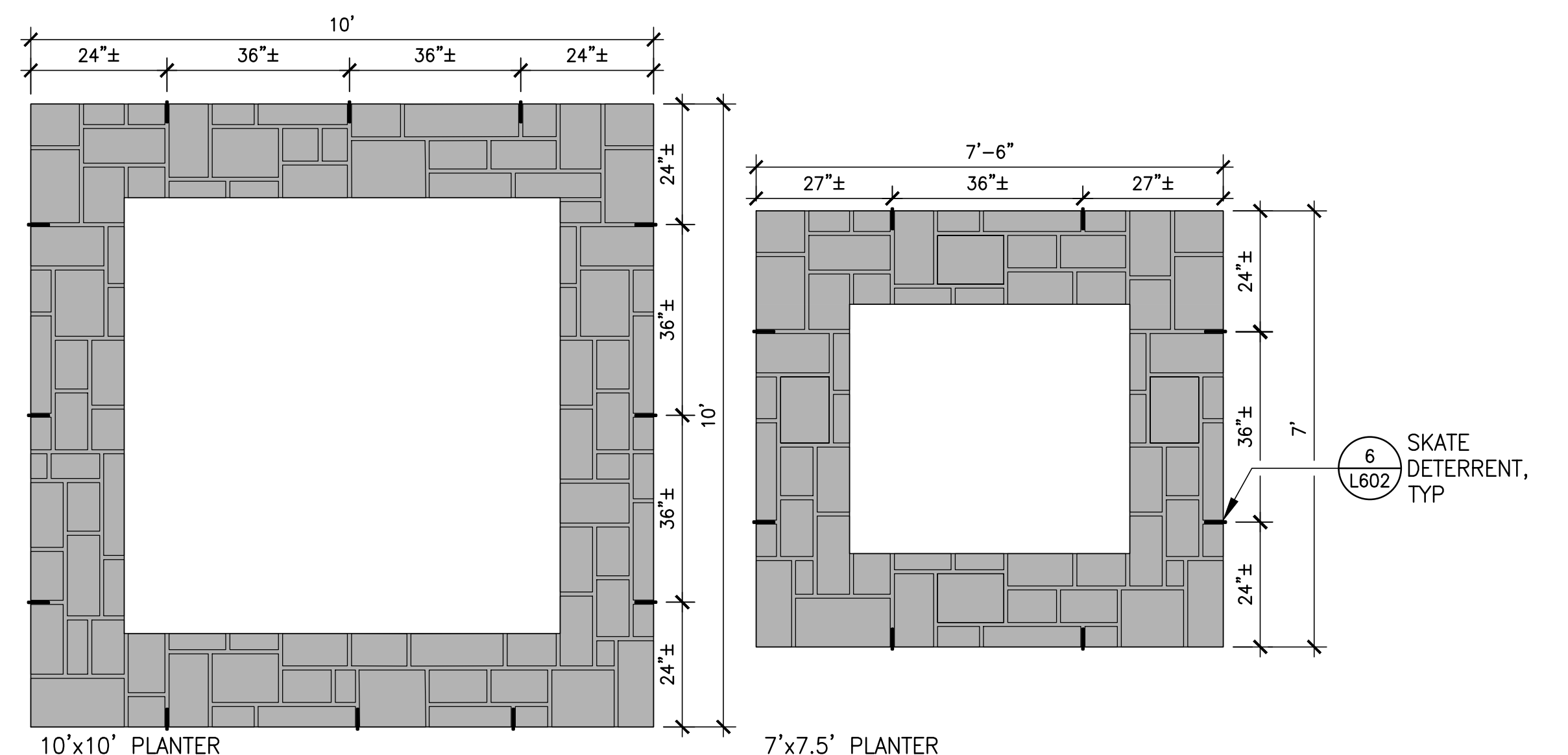
**6 SKATE DETERRENT** Plan  
6" = 1'-0"



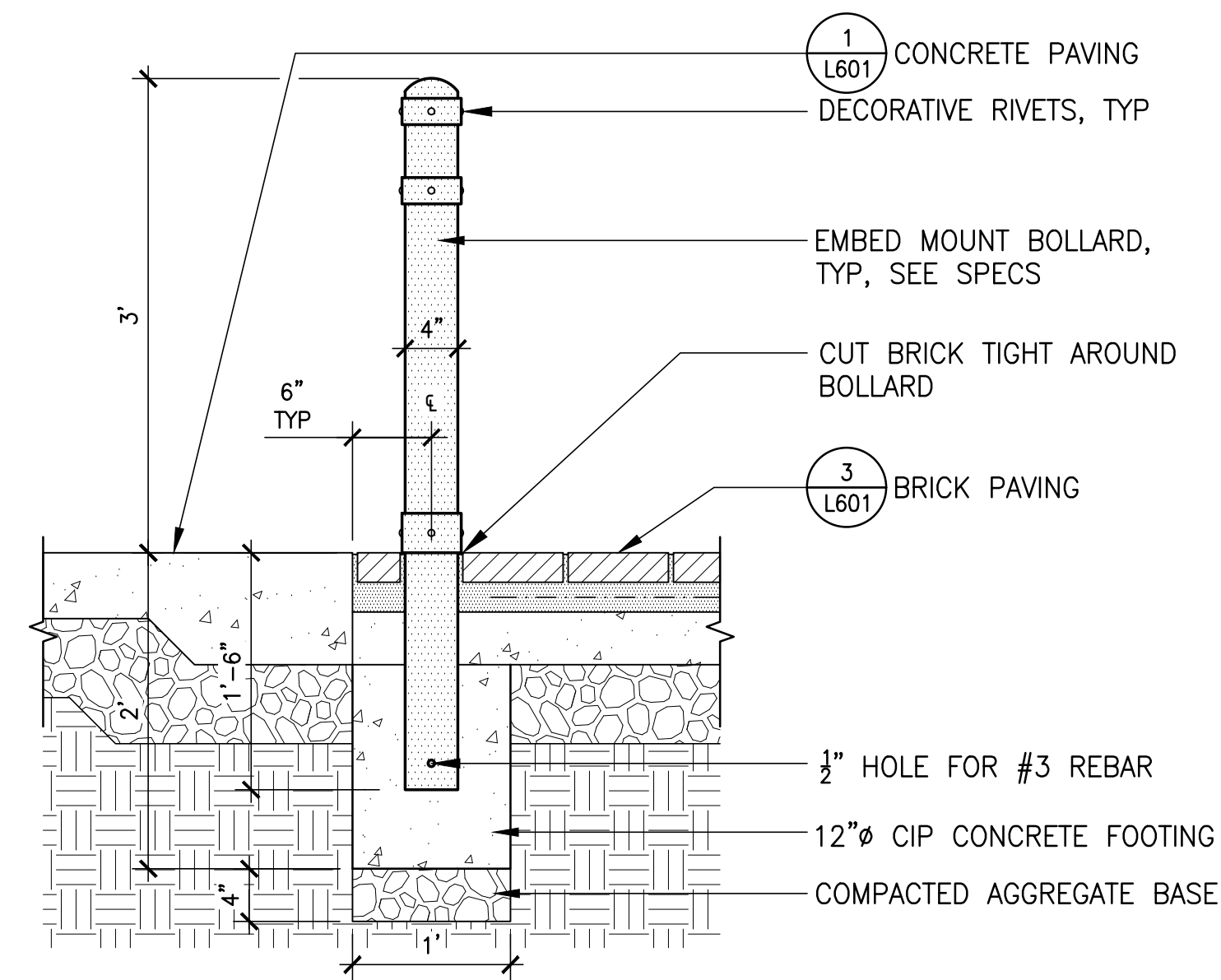
**7 STONE WALL PATTERN** Section  
3/4" = 1'-0"



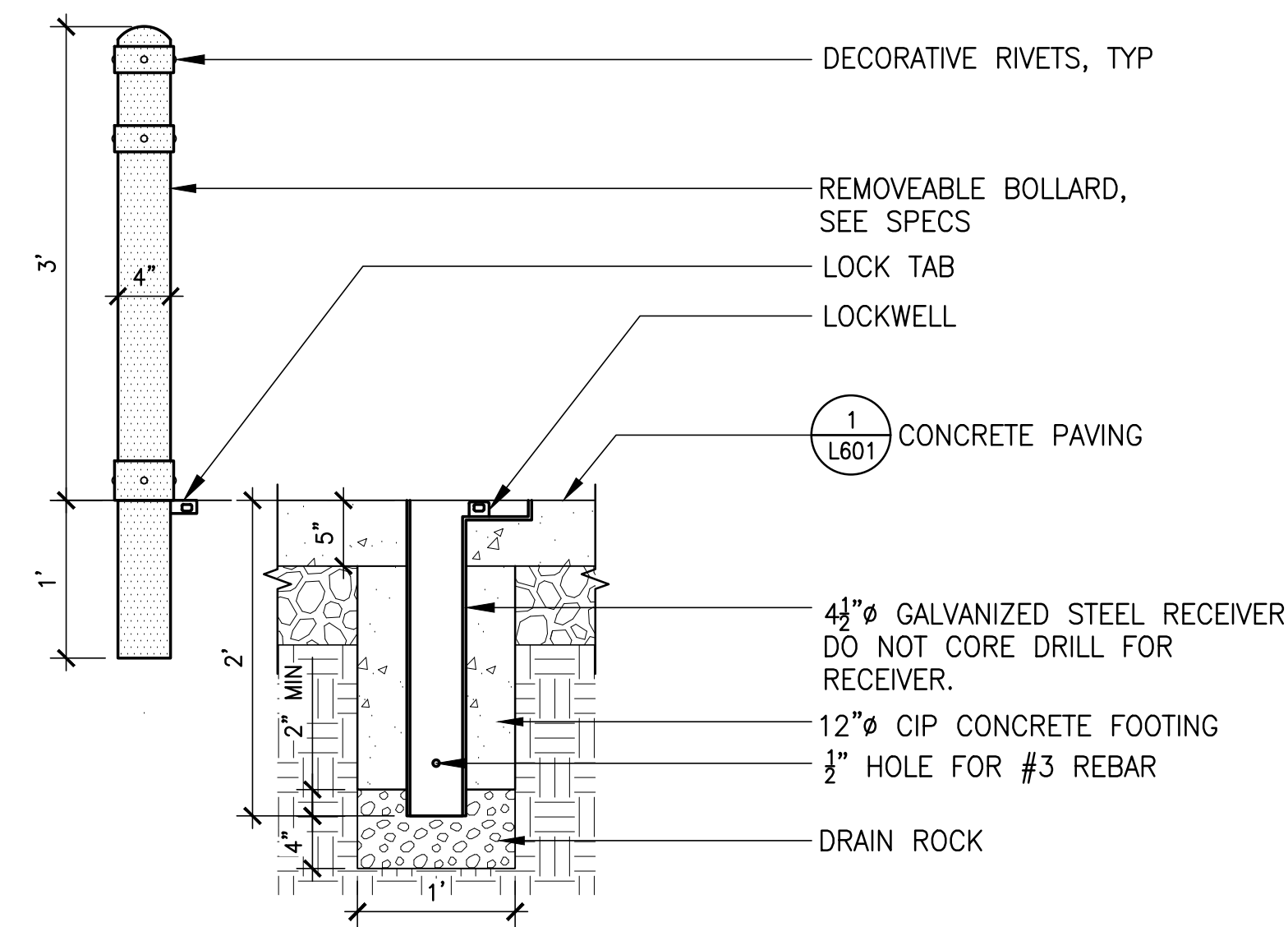
**8 WALL LIGHT** Section  
3/4" = 1'-0"



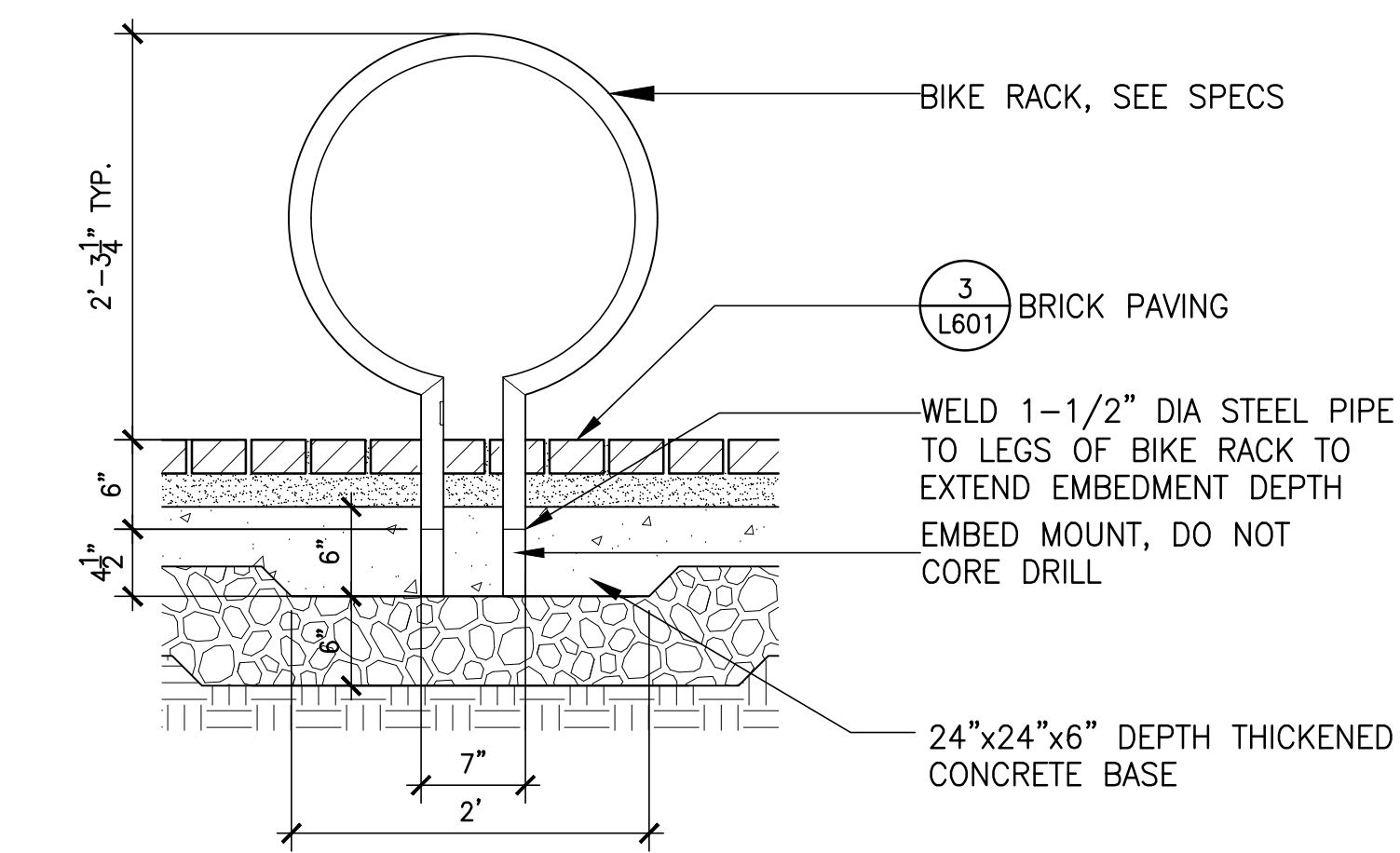
**9 SKATE DETERRENT LAYOUT** Plan  
1/2" = 1'-0"



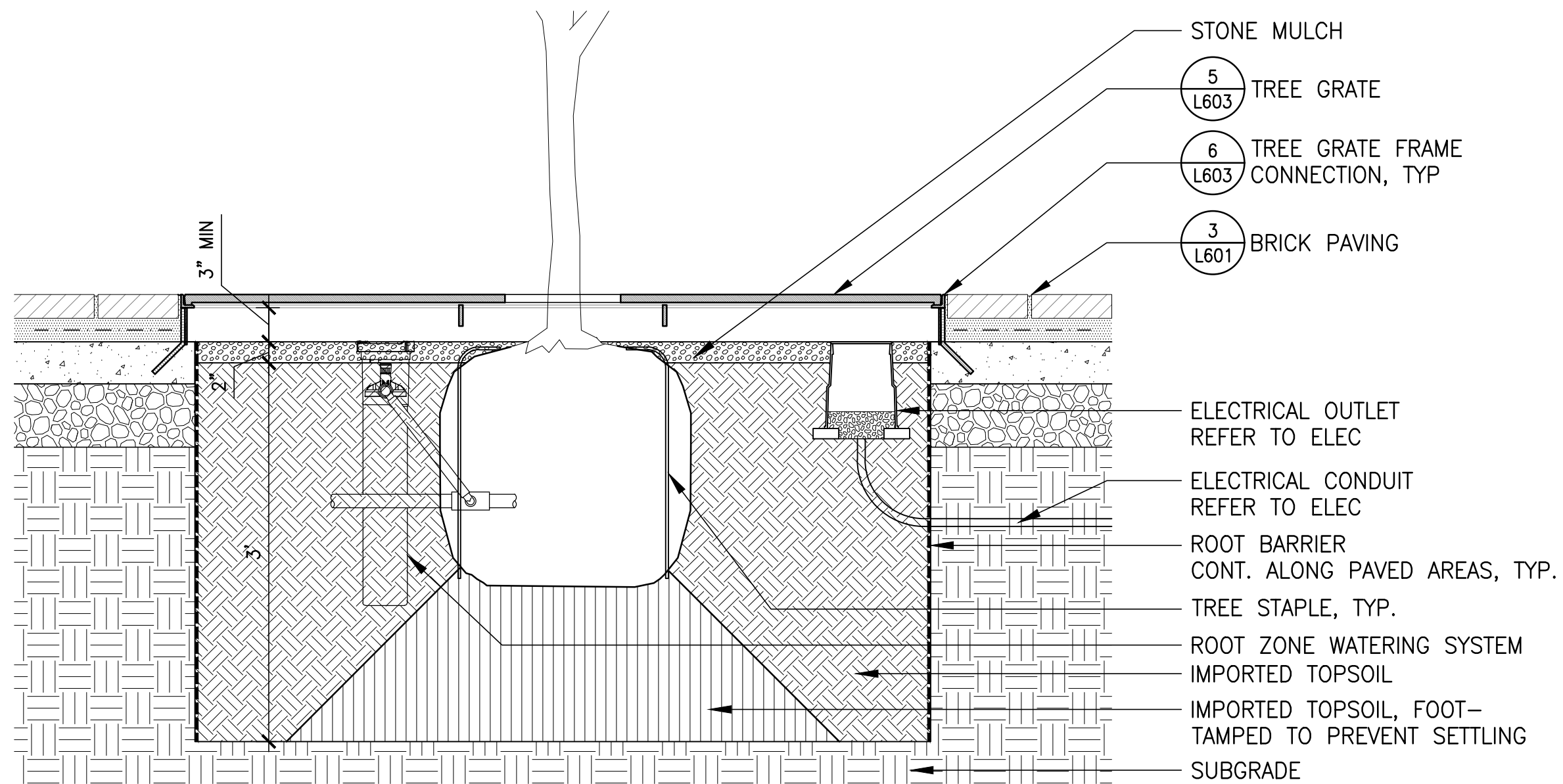
**1 BOLLARD** Section  
1" = 1'-0"



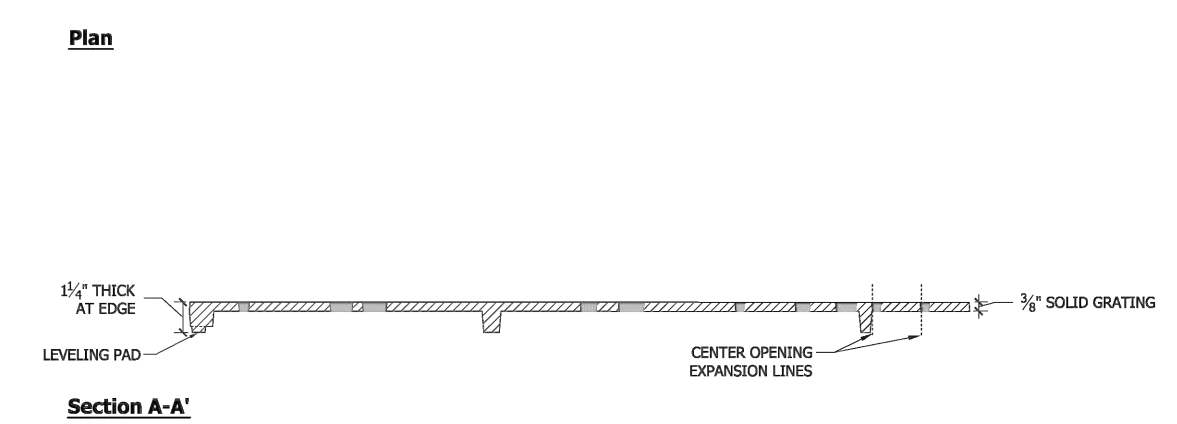
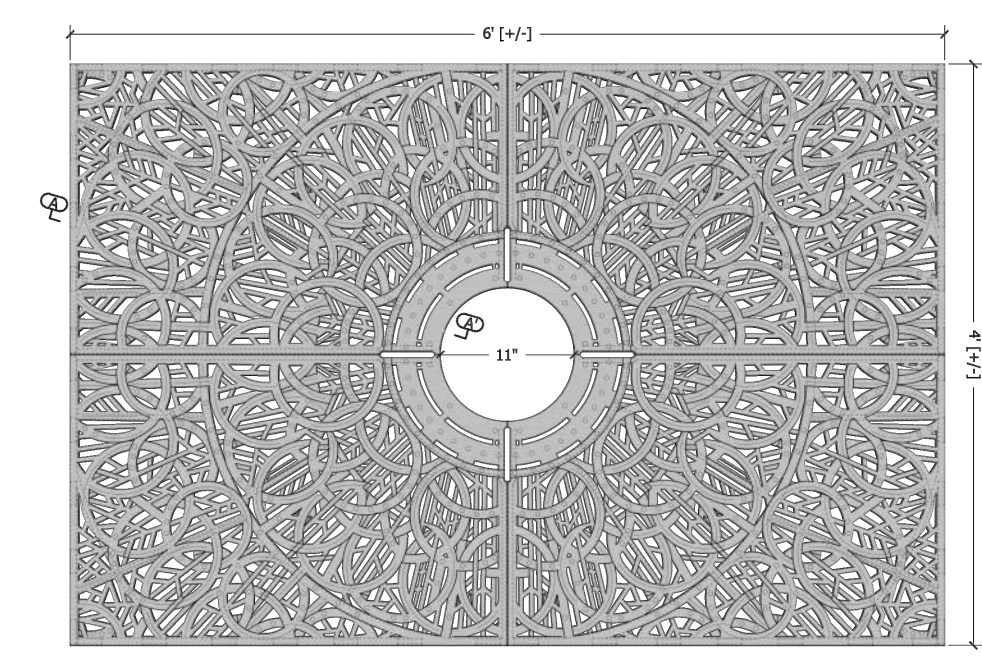
**2 REMOVABLE BOLLARD** Section  
1" = 1'-0"



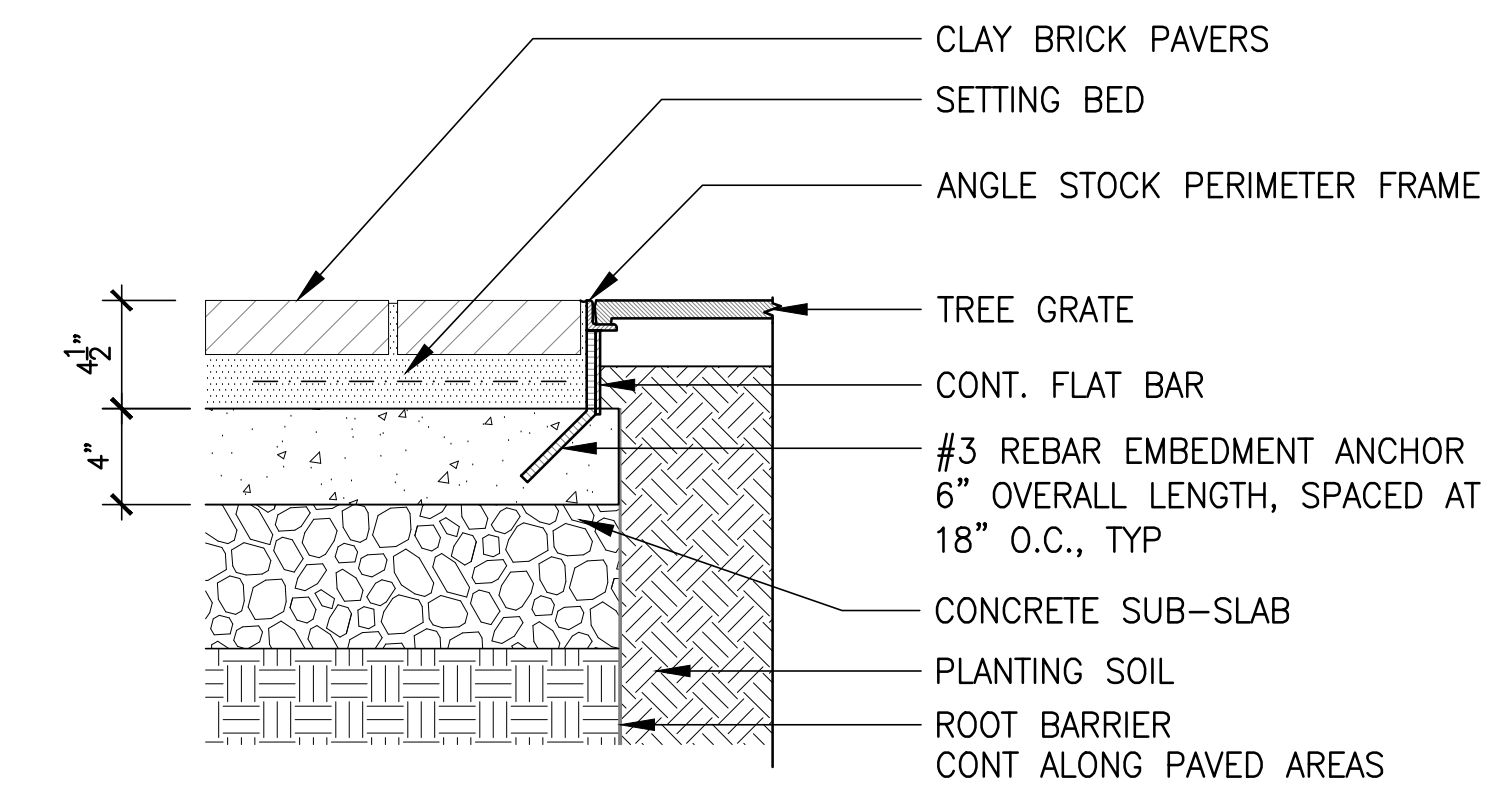
**3 BIKE RACK** Section  
1" = 1'-0"



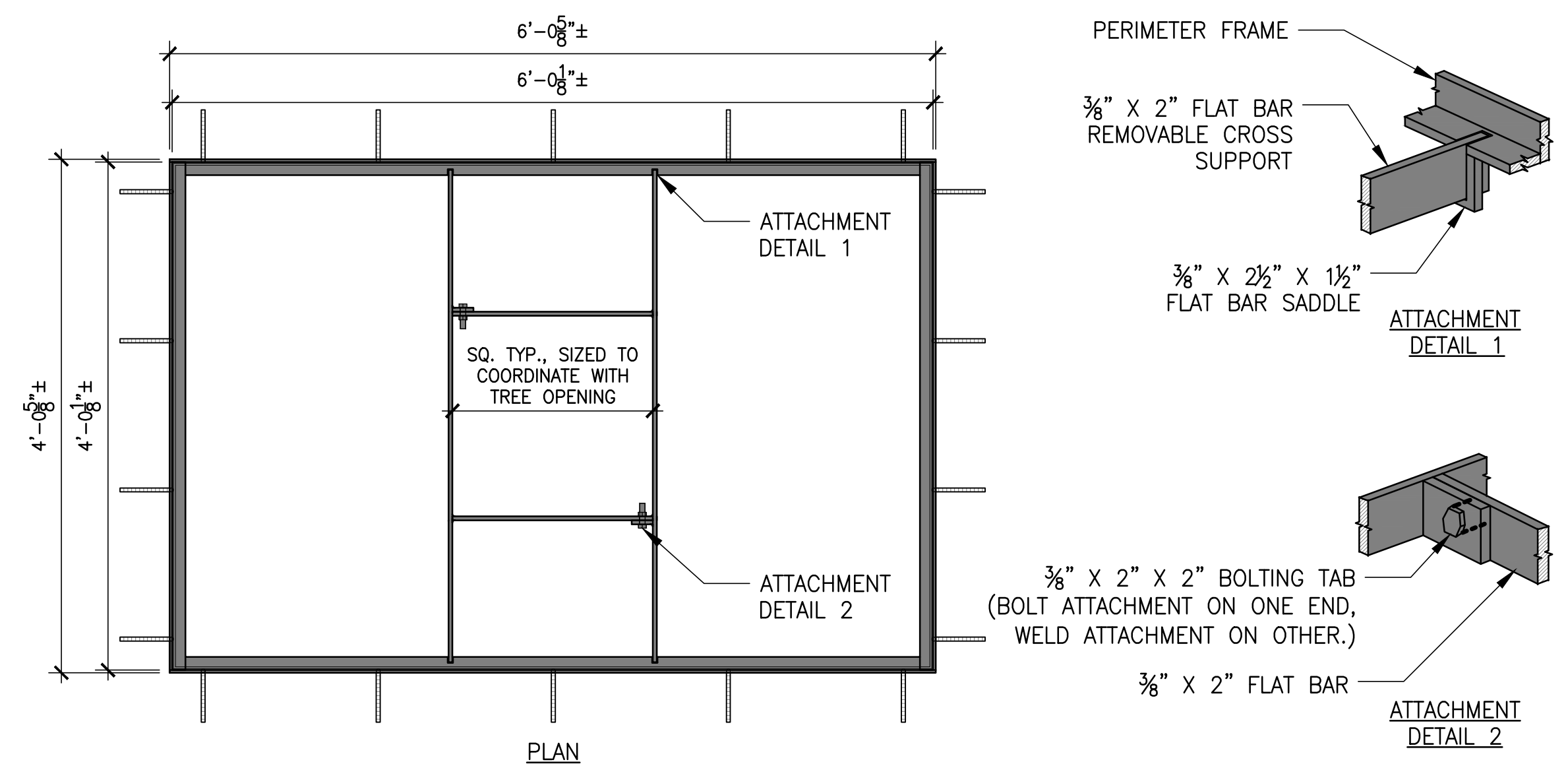
**4 TREE PIT** Section  
1" = 1'-0"



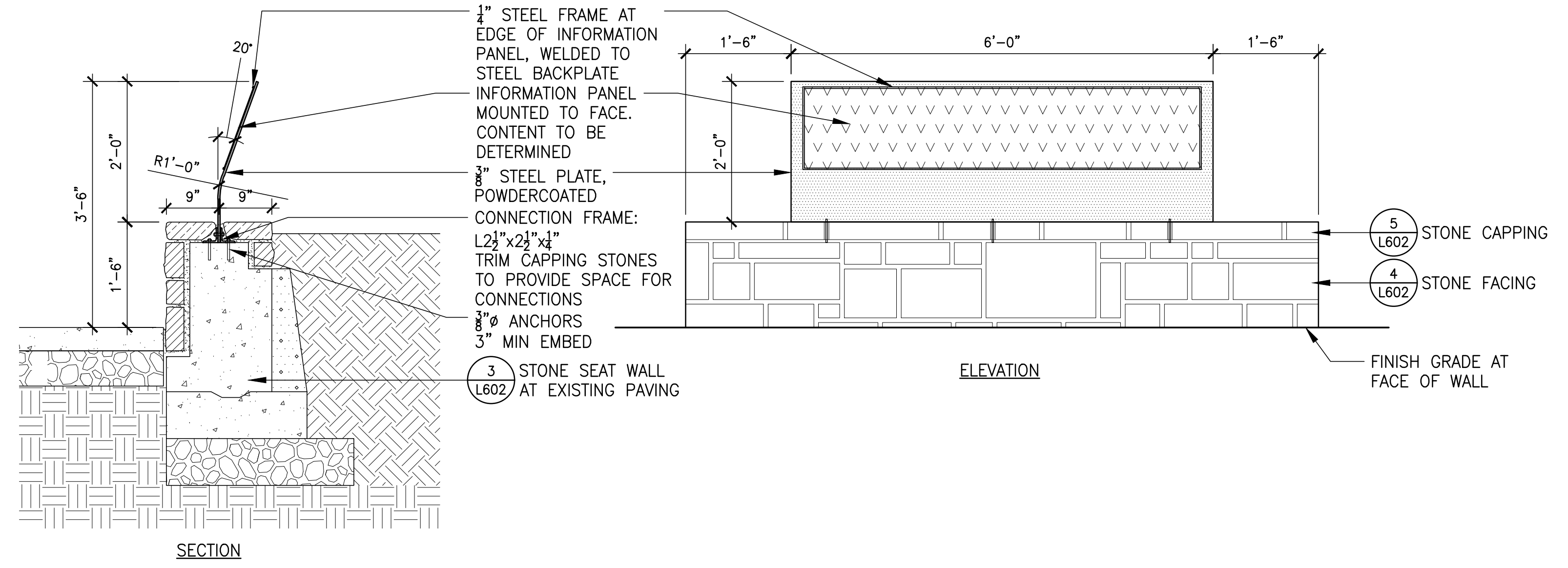
**5 TREE GRATE** Plan Section  
NTS



**6 TREE GRATE FRAME CONNECTION** Section  
1 1/2" = 1'-0"



**7 TREE GRATE FRAME** Section  
1" = 1'-0"



**8 INTERPRETIVE SIGNAGE** Section  
3/4" = 1'-0"

REVISIONS

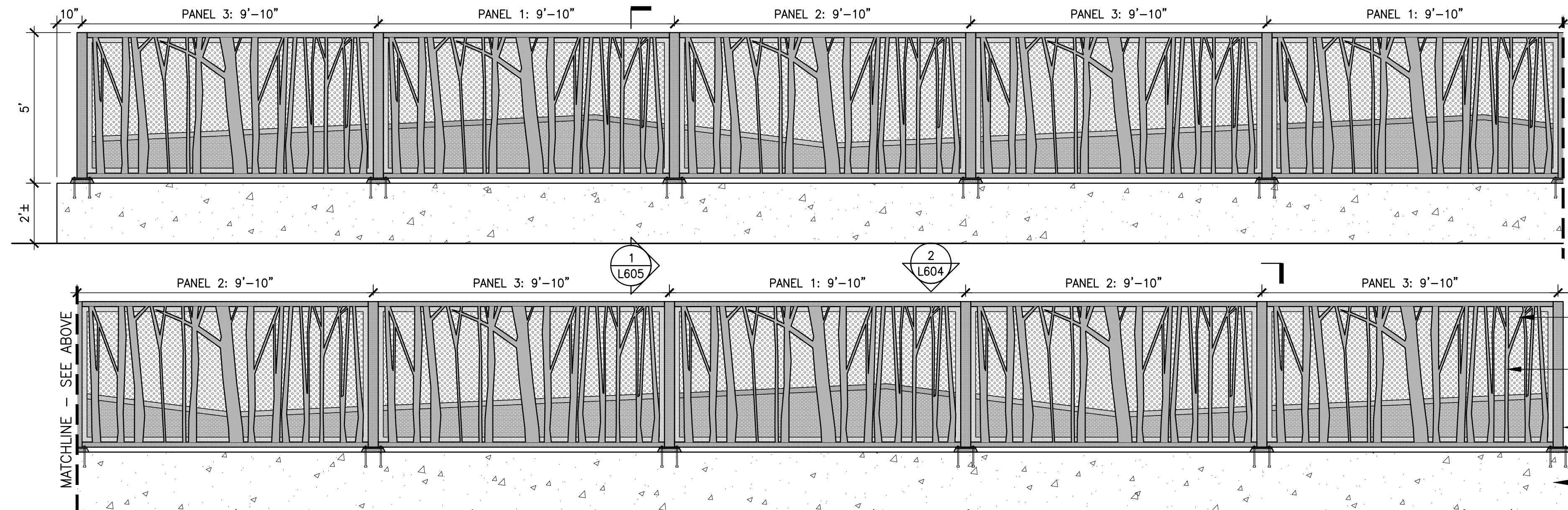
NO.	DATE	DESCRIPTION

SCALE AS SHOWN  
DRAWN BY BAH  
DATE 08.30.2022  
PROJECT NO. 2150

BIDDING DOCUMENTS

SHEET TITLE

DETAILS

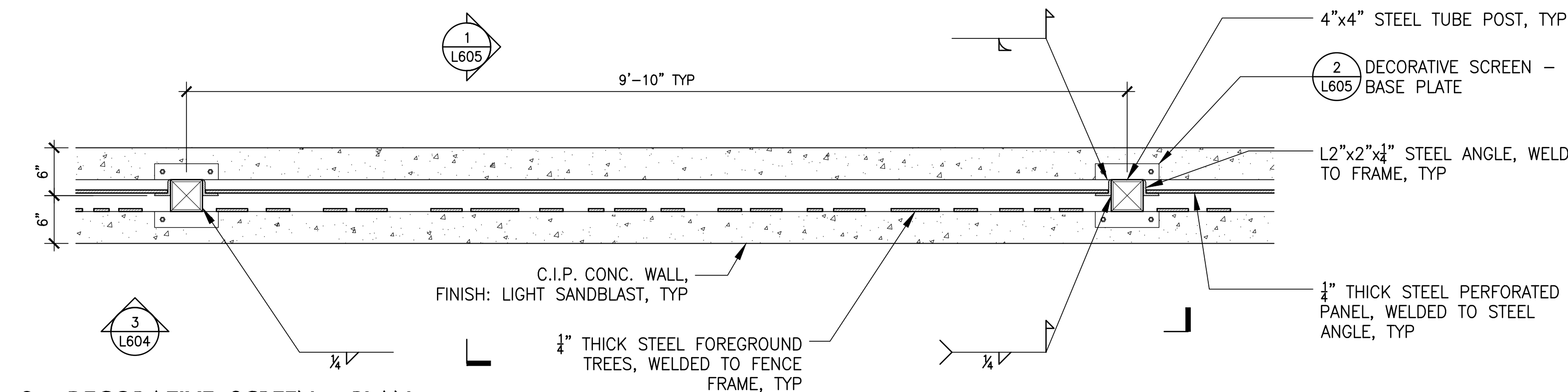


NOTES:  
ALL DECORATIVE SCREEN  
STEEL ELEMENTS TO BE  
POWDERCOATED. COLOR TO BE  
DETERMINED

FOR PANEL DIMENSIONS,  
REFER TO DETAIL 4/L604.

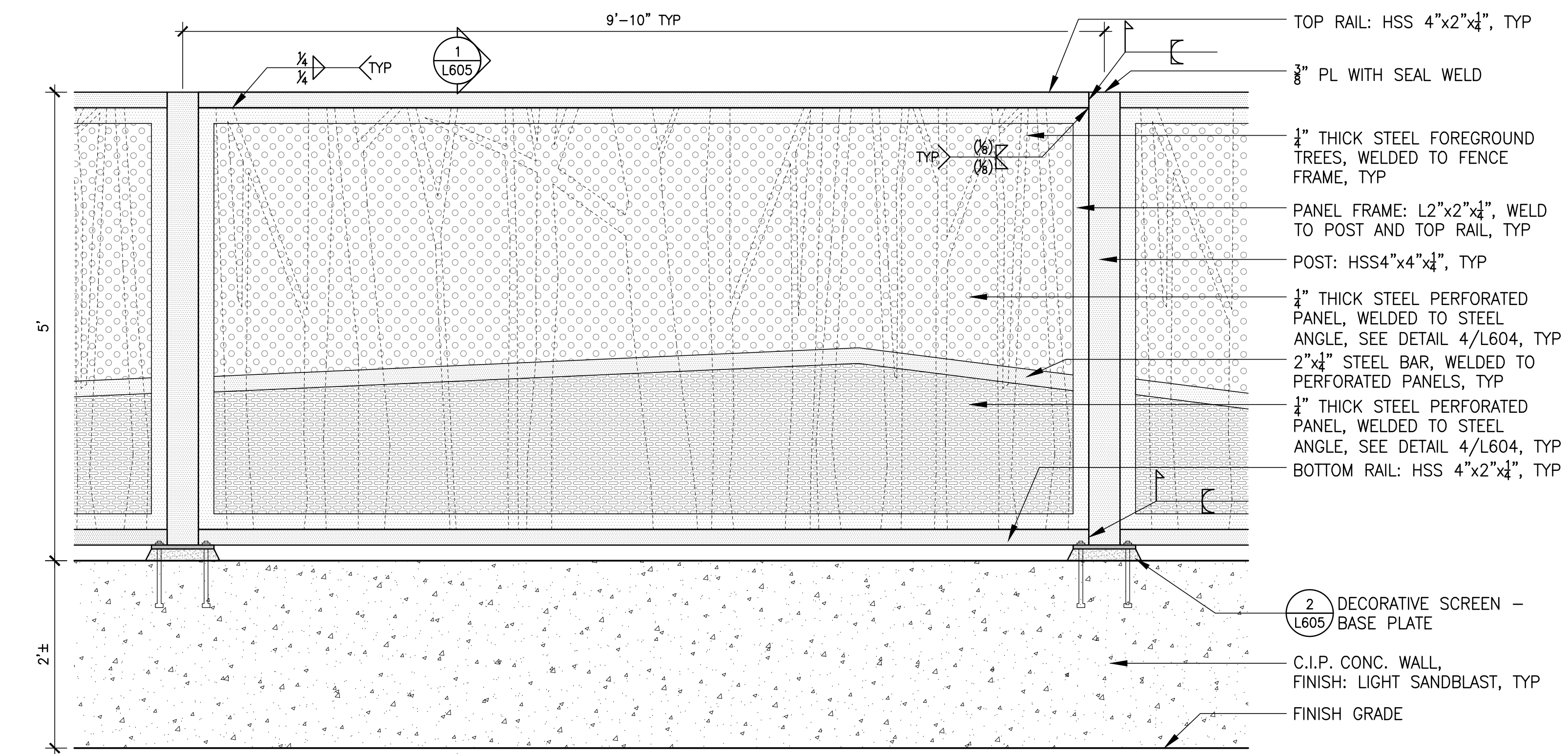
**1 DECORATIVE SCREEN - ELEVATION**

**Elevation**  
3/8" = 1'-0"



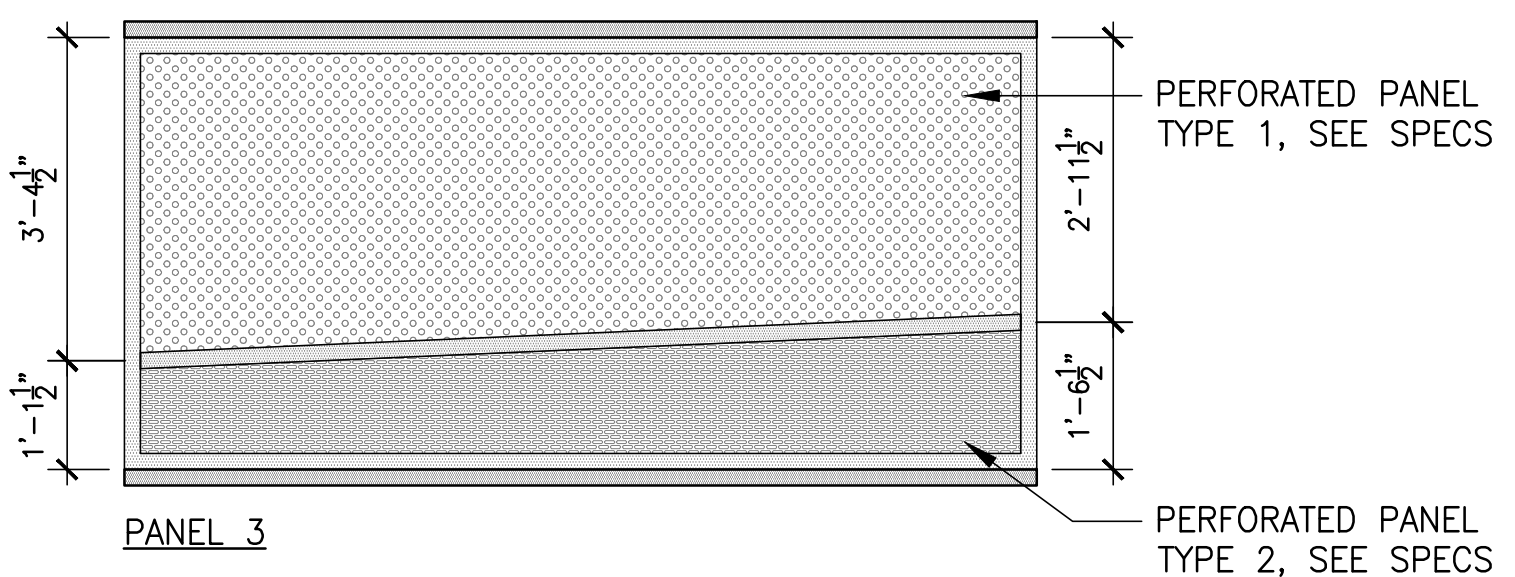
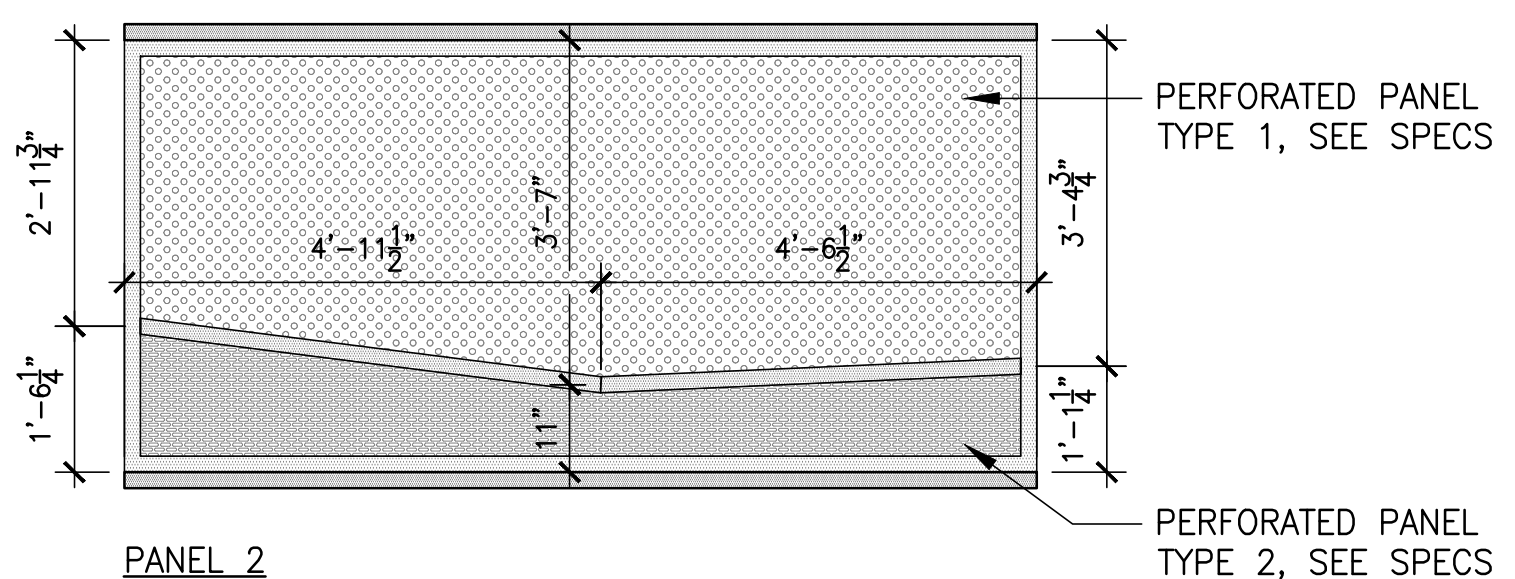
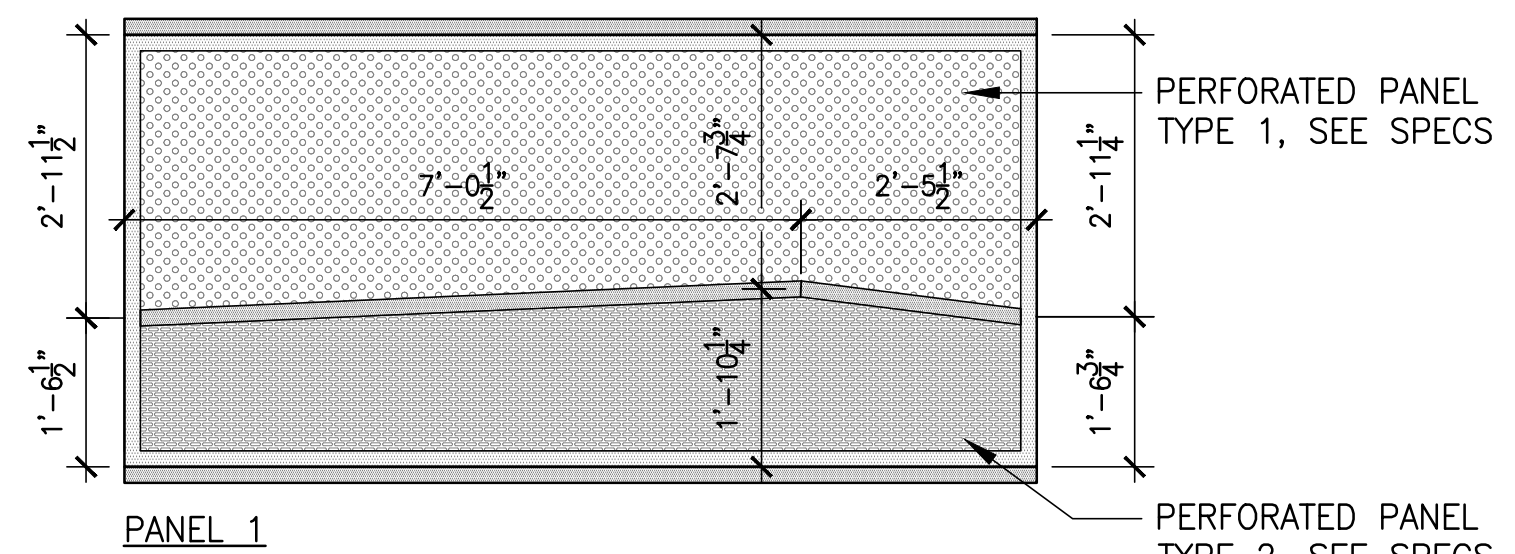
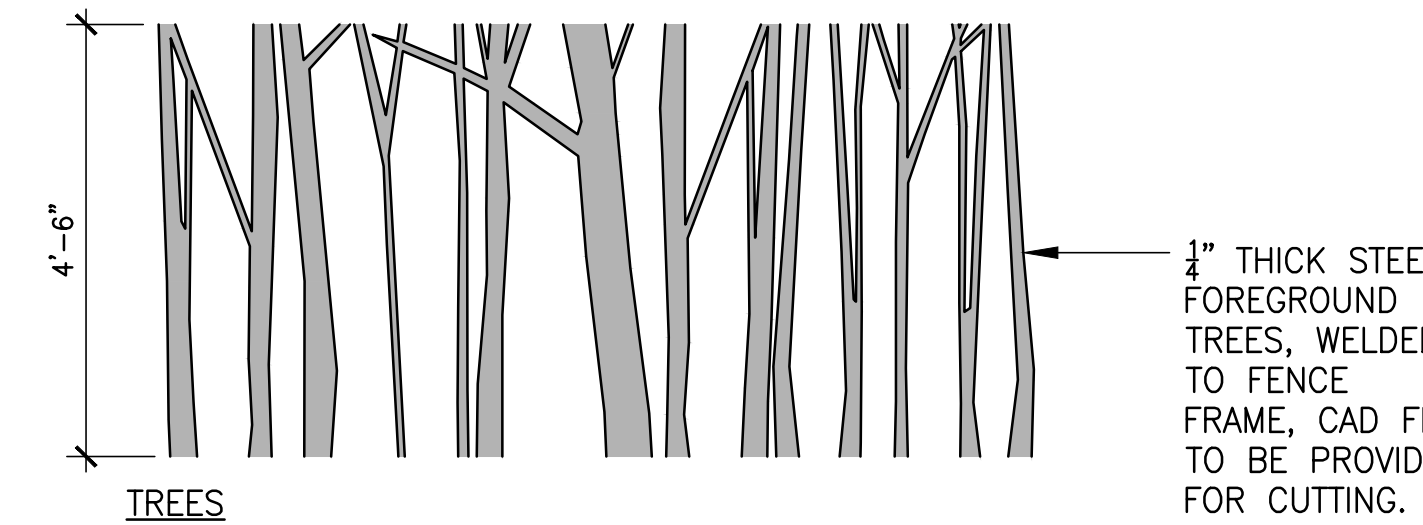
**2 DECORATIVE SCREEN - PLAN**

**Plan**  
1" = 1'-0"



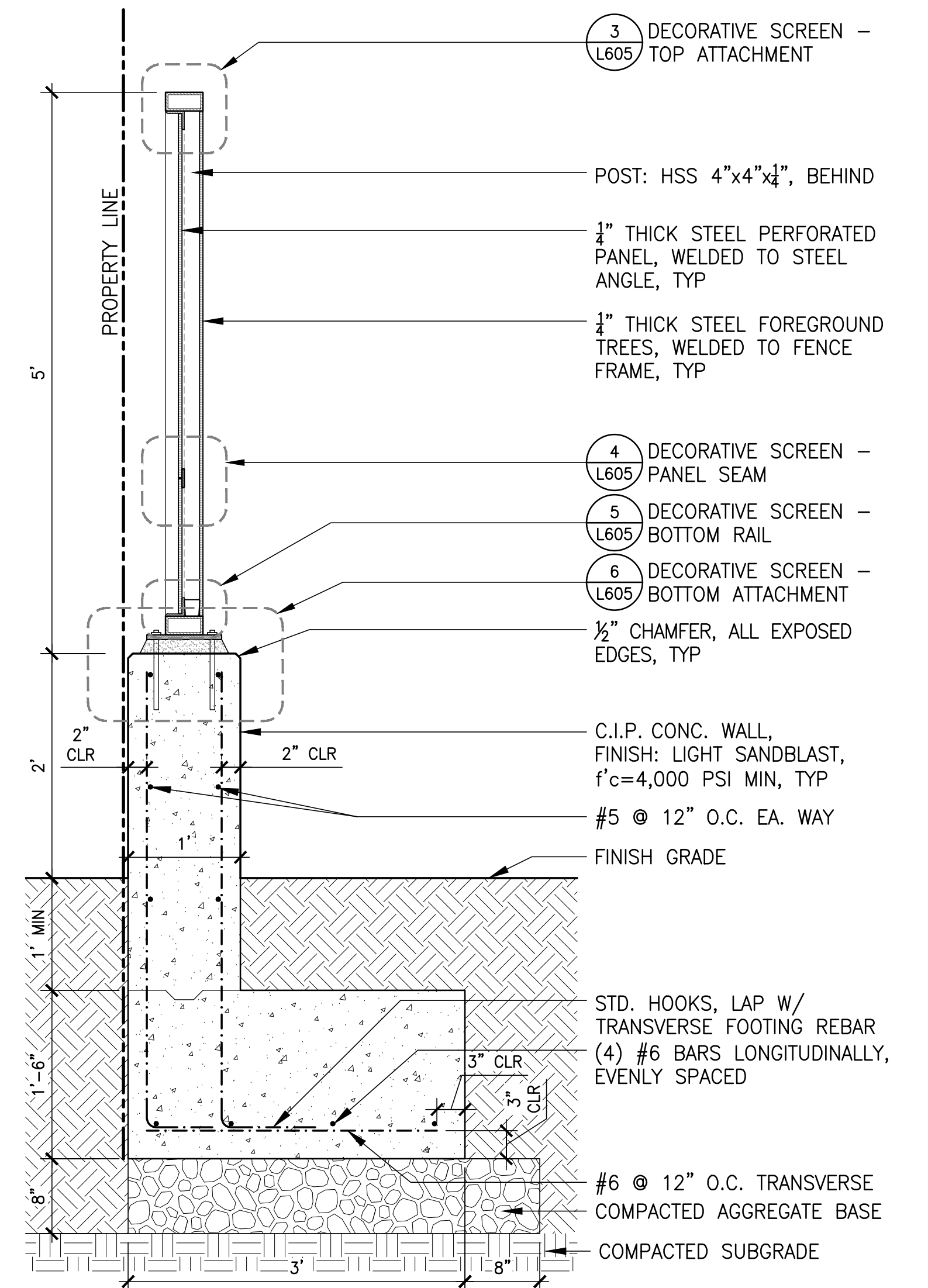
**3 DECORATIVE SCREEN - FRONT SECTION**

**Section**  
1" = 1'-0"

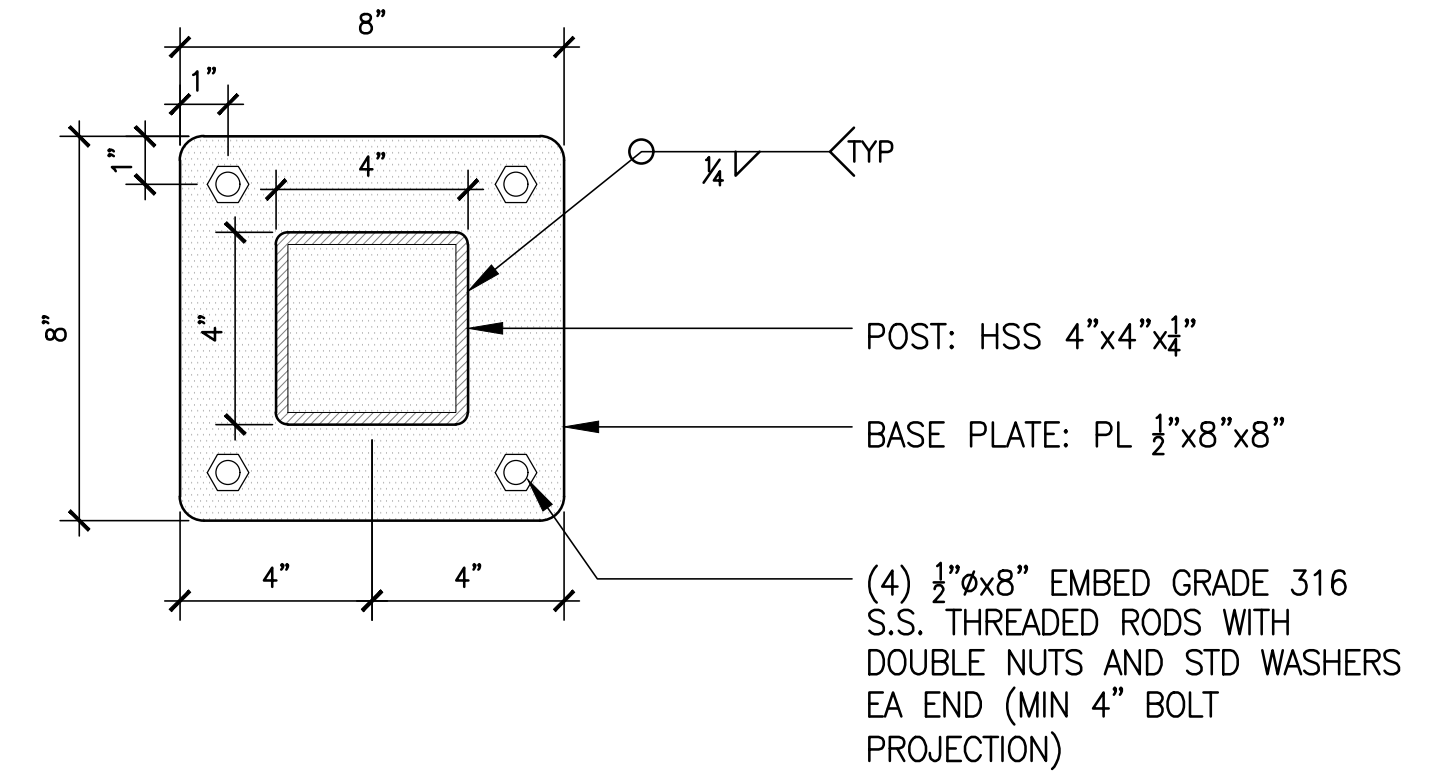


**4 DECORATIVE SCREEN - PANELS**

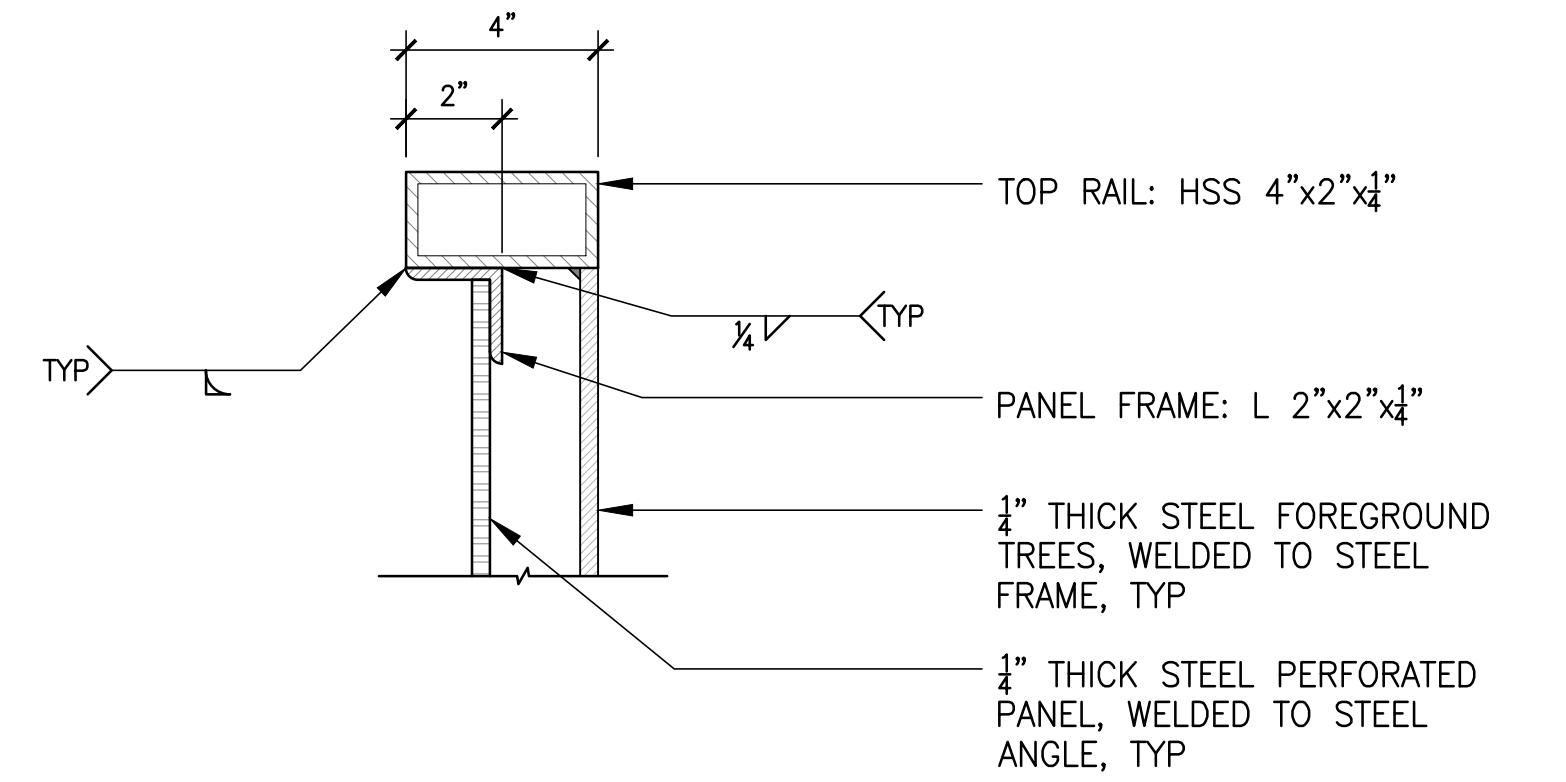
**Elevation**  
1/2" = 1'-0"



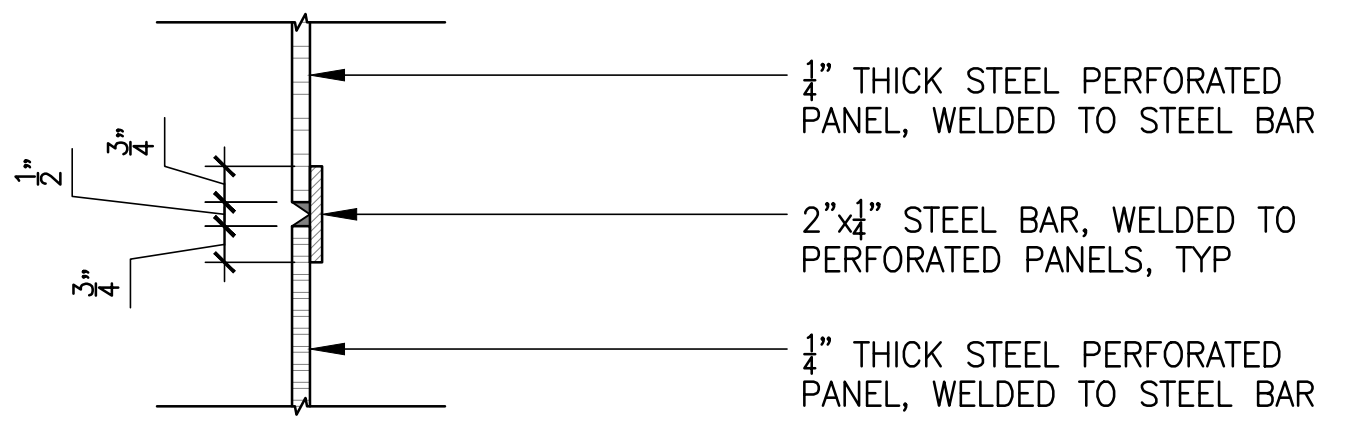
**1 DECORATIVE SCREEN - SECTION** Section  
1" = 1'-0"



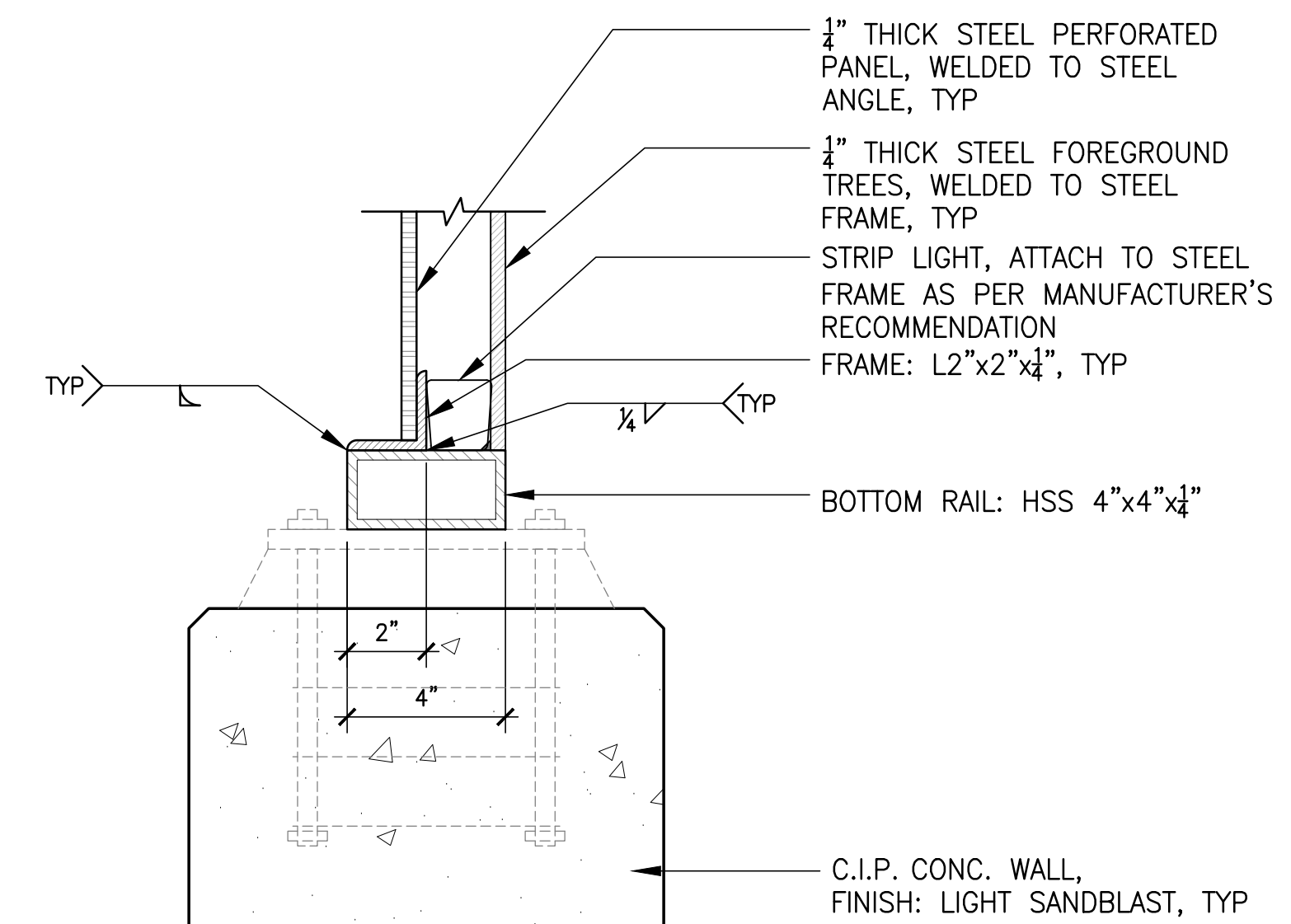
**2 DECORATIVE SCREEN - BASE PLATE** Section  
3" = 1'-0"



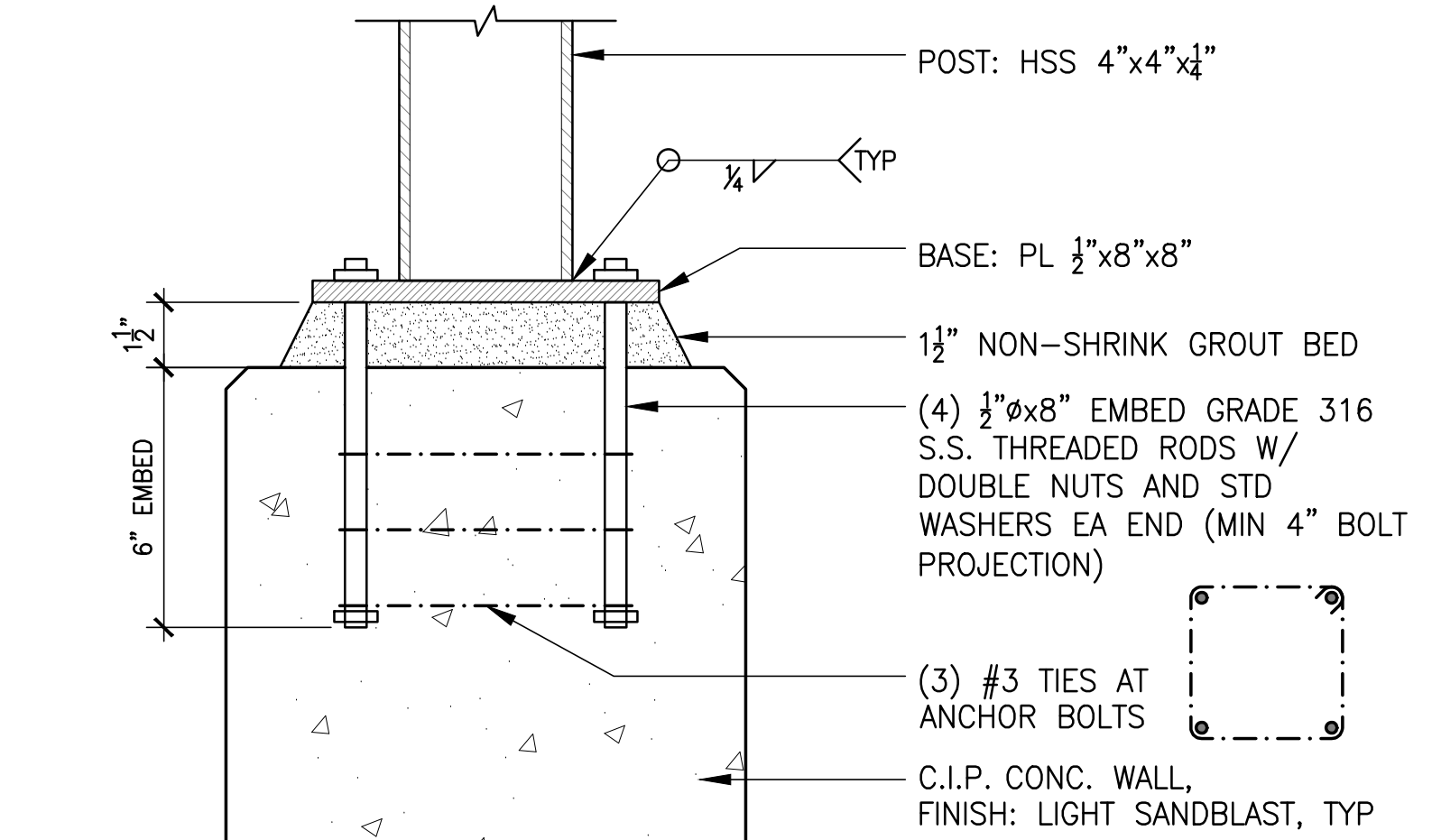
**3 DECORATIVE SCREEN - TOP ATTACHMENT** Section  
3" = 1'-0"



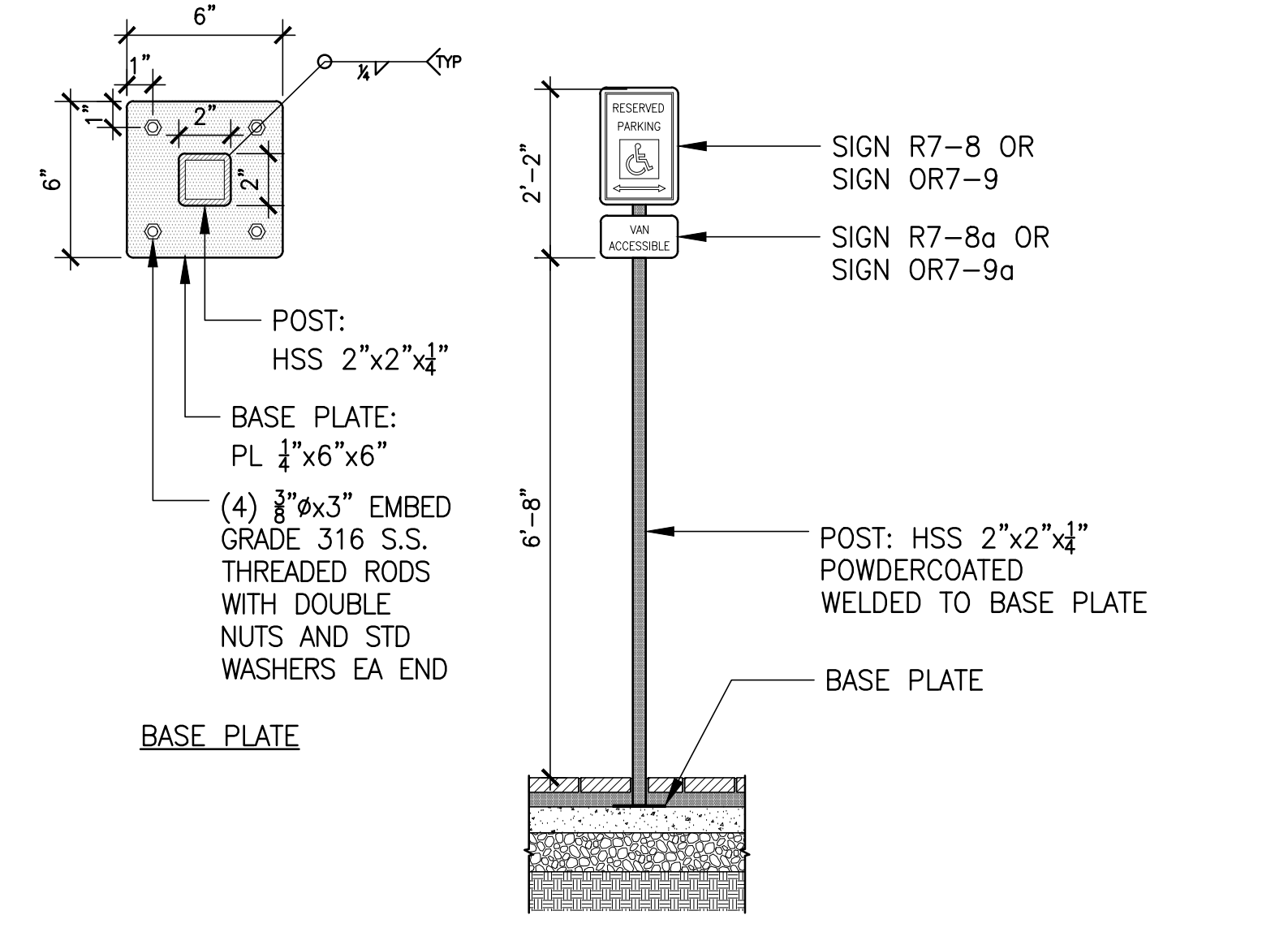
**4 DECORATIVE SCREEN - PANEL SEAM** Section  
3" = 1'-0"



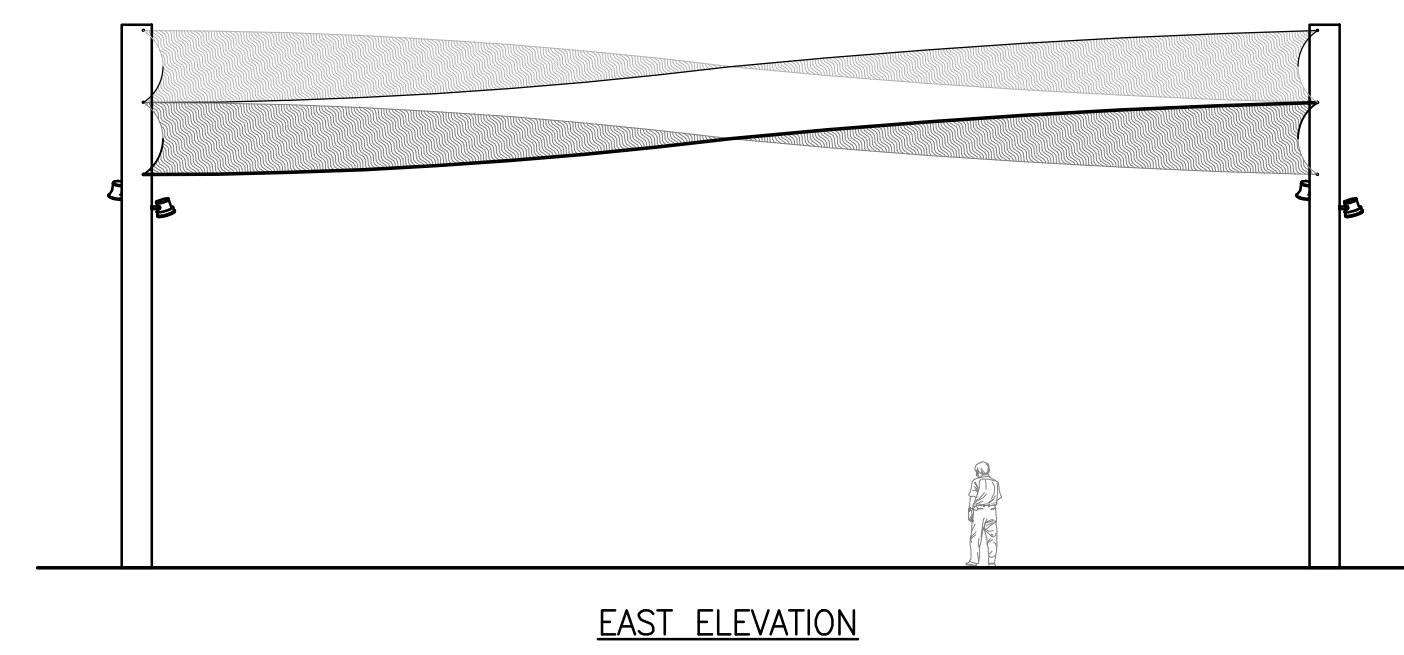
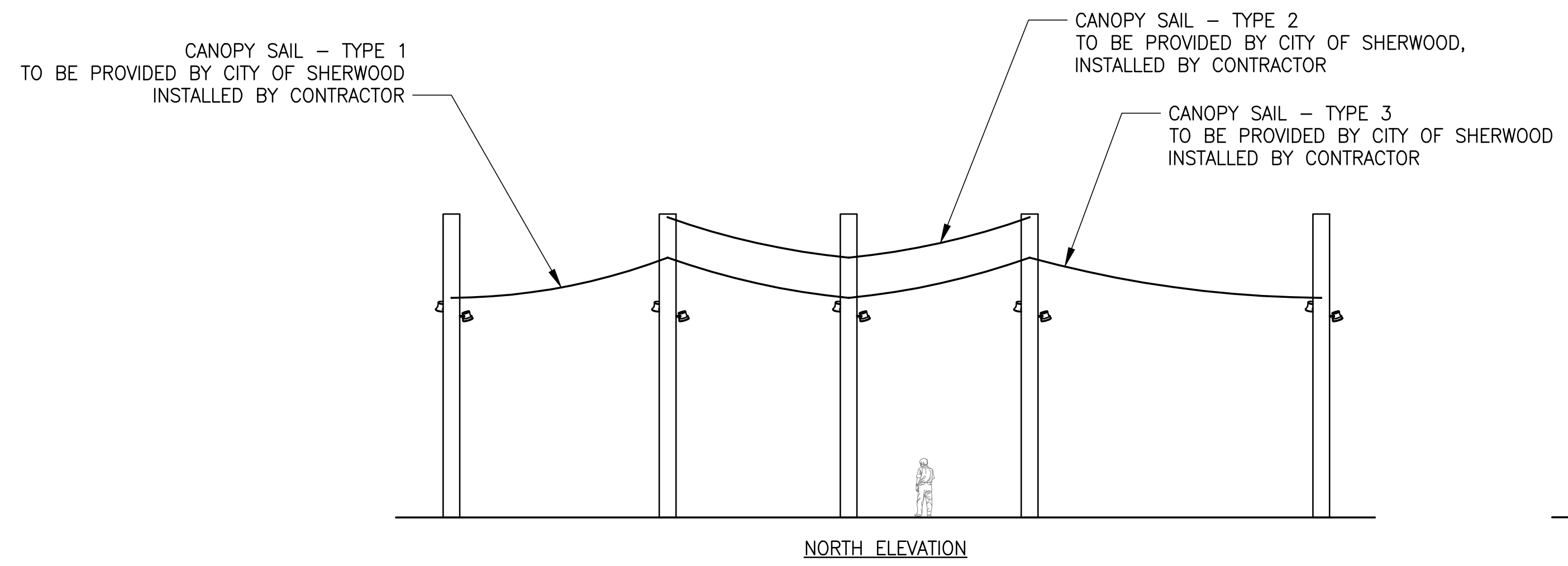
**5 DECORATIVE SCREEN - BOTTOM RAIL** Section  
3" = 1'-0"



**6 DECORATIVE SCREEN - BOTTOM ATTACHMENT** Section  
3" = 1'-0"

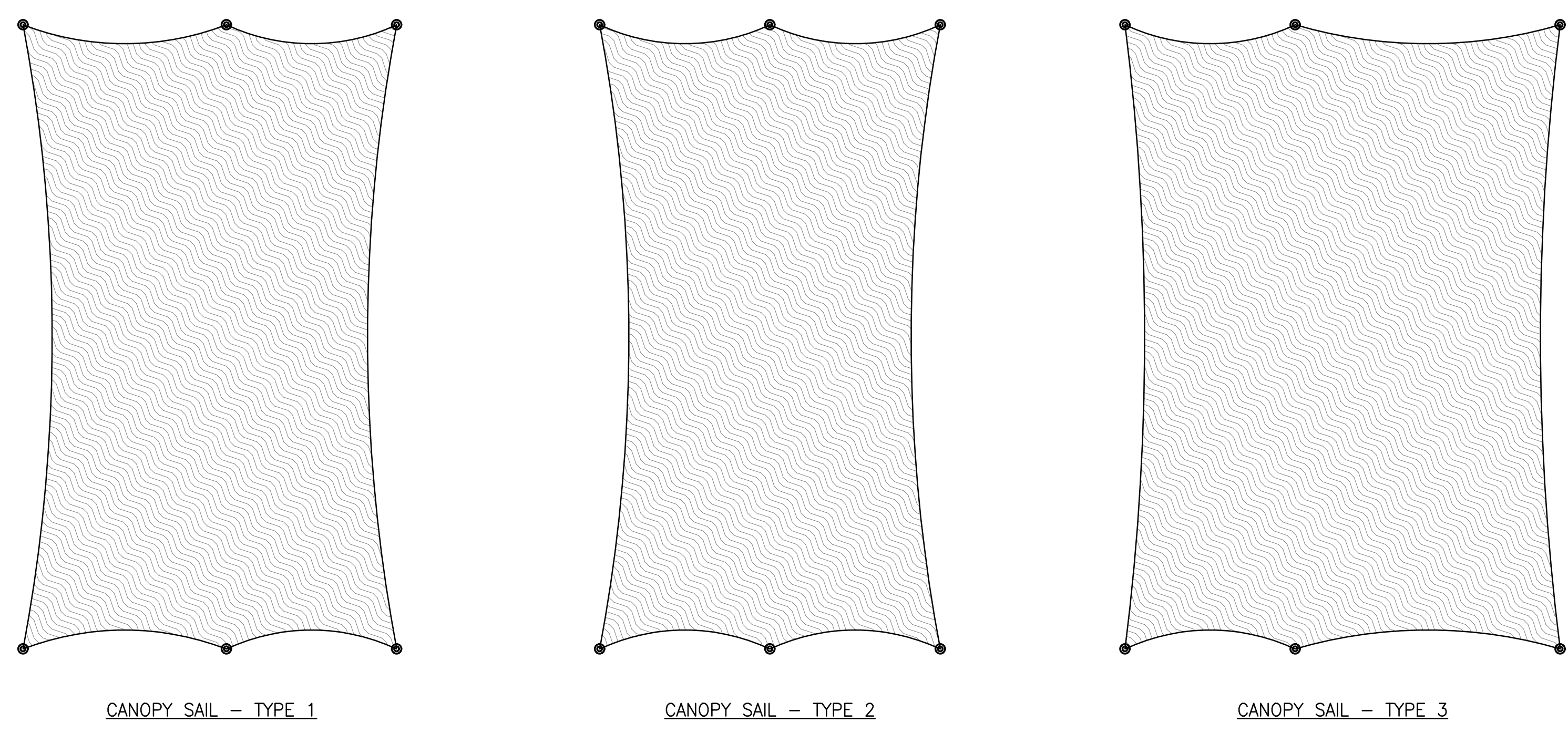


**7 ADA PARKING SIGN** Section  
1/2" = 1'-0"



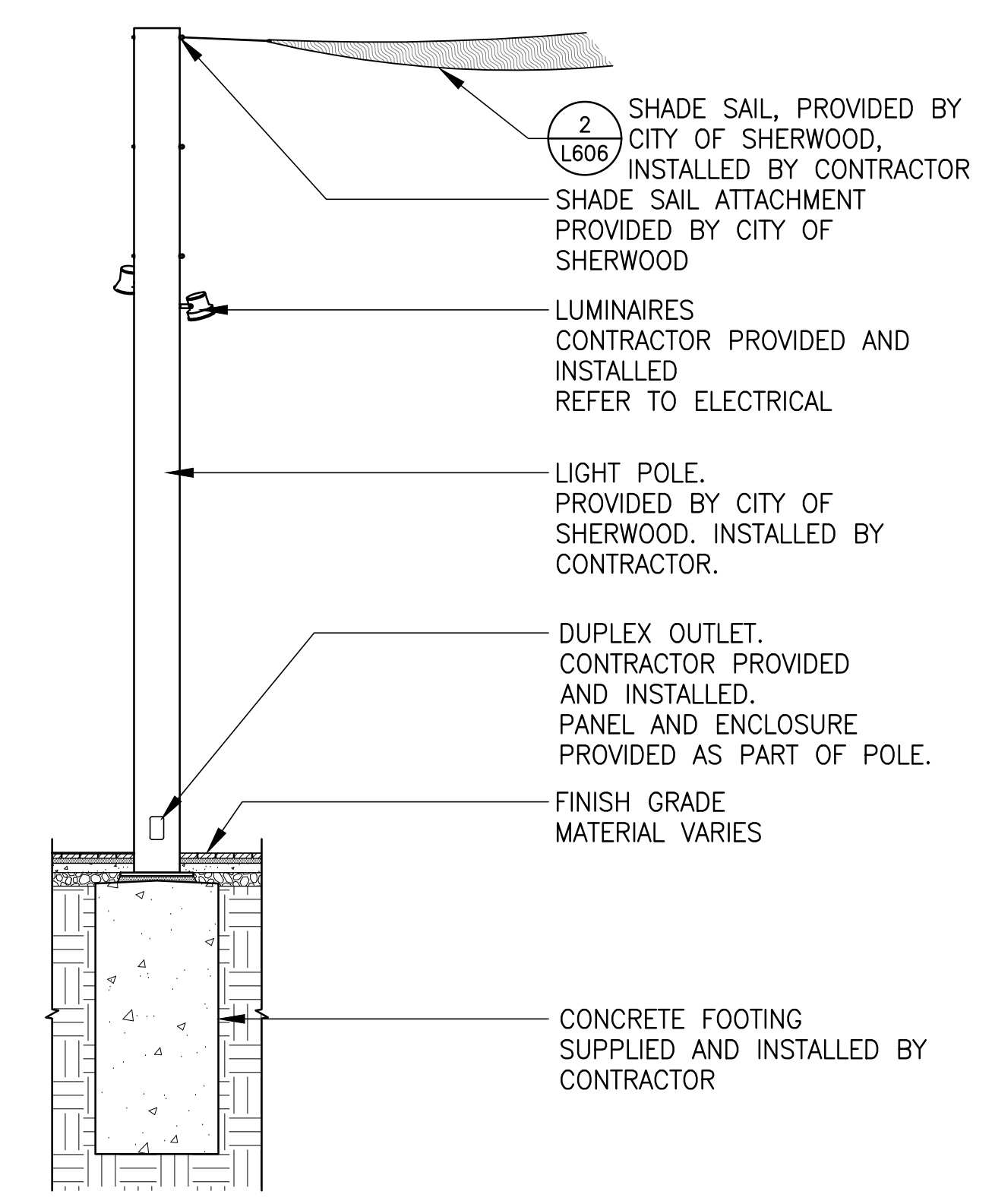
**1 SHADE SAIL - ELEVATION**

Section  
3/32" = 1'-0"



**2 SHADE SAIL**

Section  
3/32" = 1'-0"



**3 PLAZA LIGHT POLE**

Section  
3/16" = 1'-0"

SHERWOOD FESTIVAL PLAZA

CITY OF SHERWOOD  
15527 SW Wilamette Street  
Sherwood, OR 97140

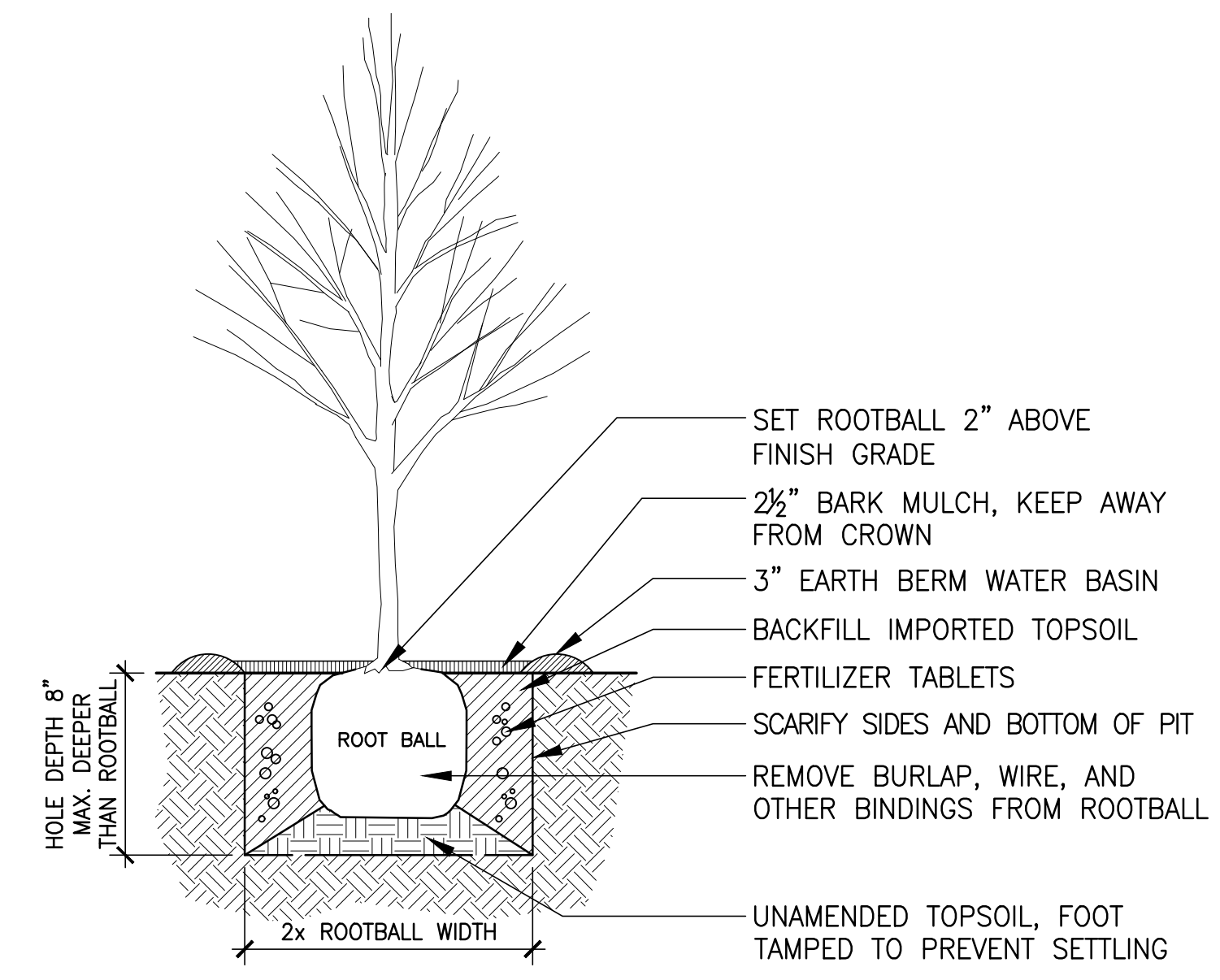
REVISIONS


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DRAWN BY BAH  
DATE 08.30.2022  
PROJECT NO. 2150

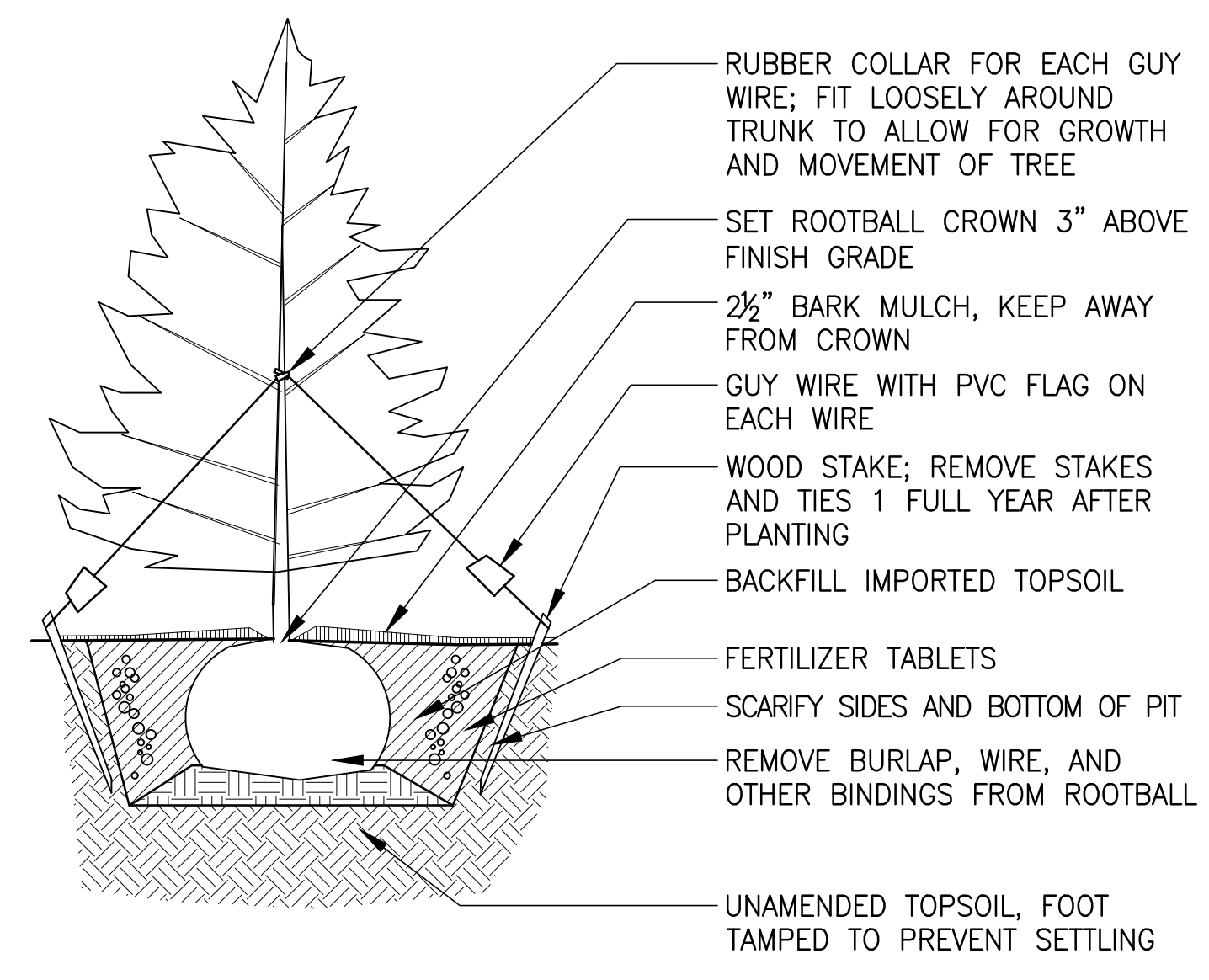
BIDDING DOCUMENTS  
SHEET TITLE

DETAILS

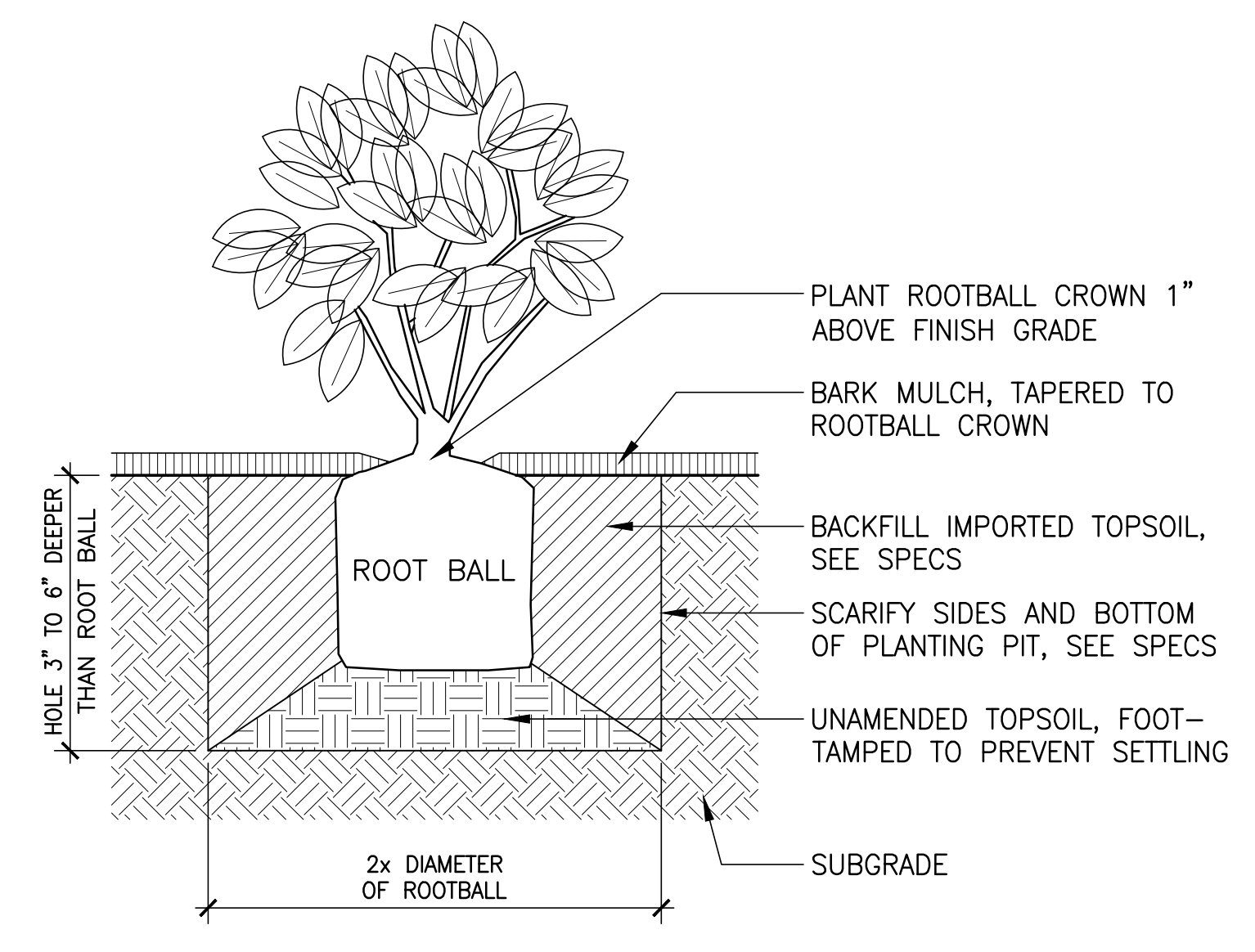
L606



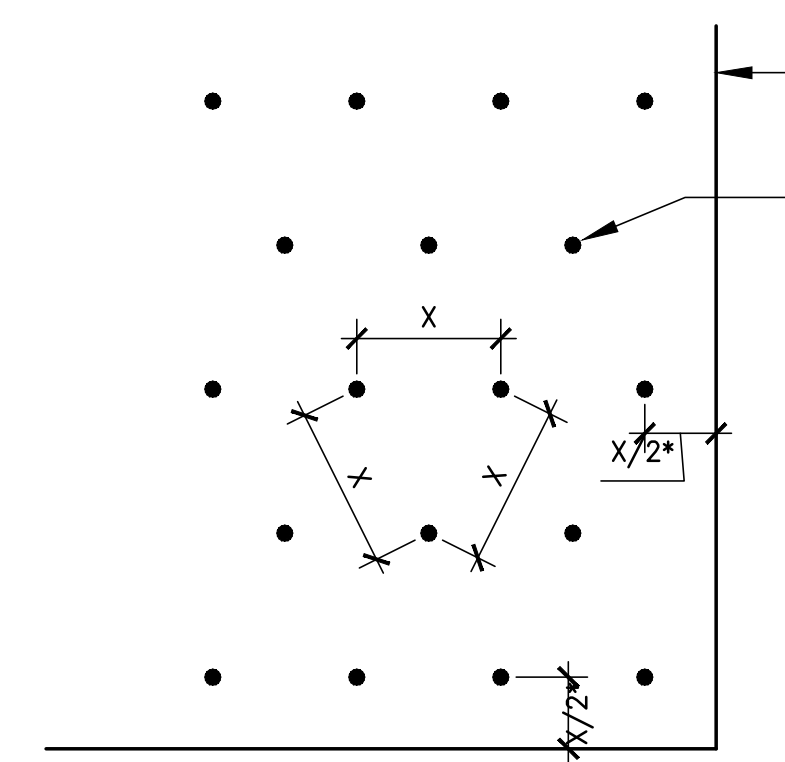
**1 DECIDUOUS TREE PLANTING** Section  
1/2" = 1'-0"



**2 CONIFEROUS TREE PLANTING** Section  
1/2" = 1'-0"



**3 SHRUB PLANTING** Section  
1" = 1'-0"

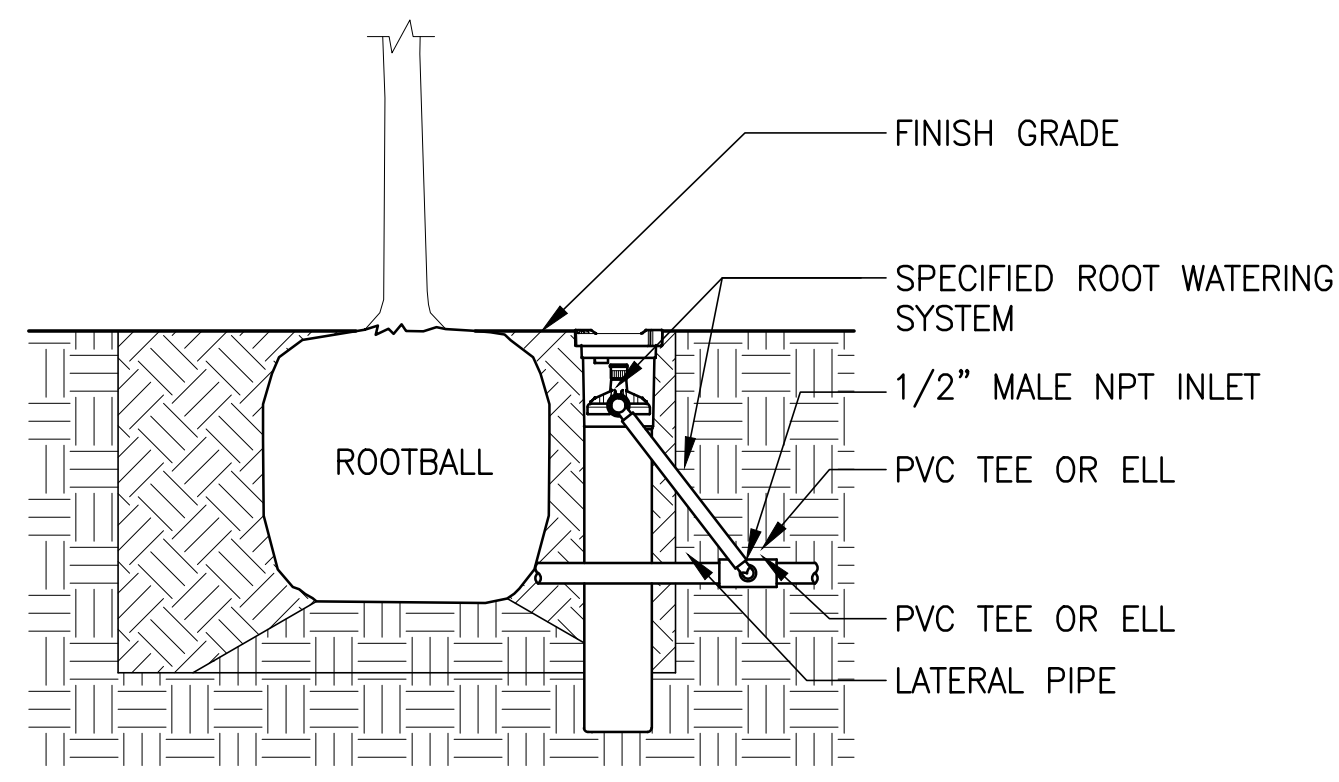


PLANT SPACING (FEET ON CENTER)	AREA PER PLANT (SQUARE FEET)
X	SF
0.5'	0.215
1.0'	0.860
1.5'	1.935
2.0'	3.440
2.5'	5.375
3.0'	7.740
3.5'	10.535
4.0'	13.760
5.0'	21.500
6.0'	30.960

NO. PLANTS =  $\frac{\text{AREA}}{\text{AREA PER PLANT}}$

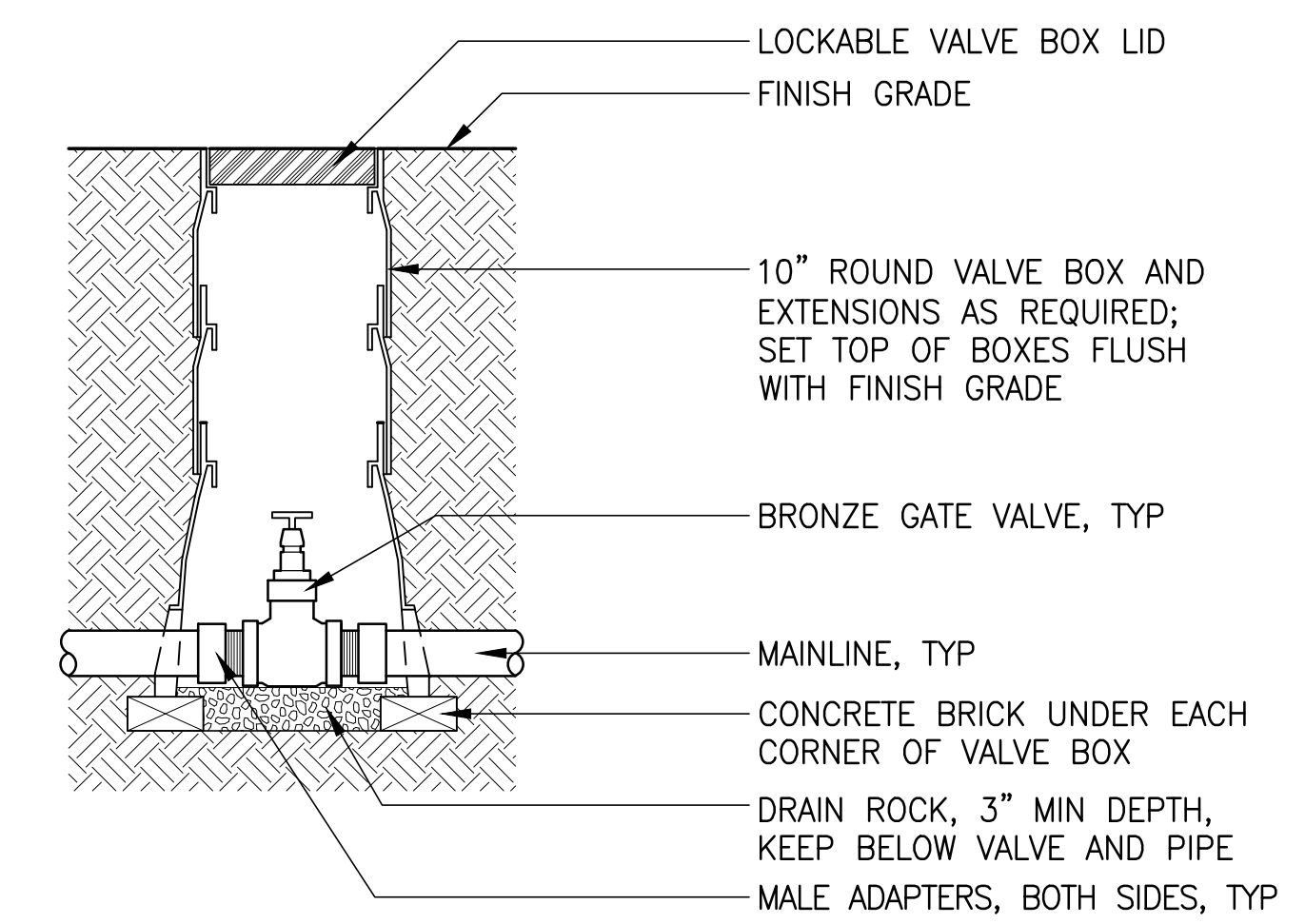
**NOTE:**  
PLANT SPACING DIMENSION "X" SHALL BE AS NOTED ON PLANTING PLANS. DIMENSION FROM EDGES OF WALKS, CURBS, BUILDINGS, ETC., SHALL BE "X/2", UNLESS OTHERWISE NOTED ON PLANS.

**4 PLANT SPACING** Section  
1/2" = 1'-0"



- NOTES:**
1. INSTALL PRODUCT SO THAT THE GRATE IS EVEN WITH FINISH GRADE OR TOP OF MULCH.
  2. RWS TO BE LOCATED UPHILL OF ROOTBALL IN SLOPED AREAS.
  3. WHEN INSTALLING IN EXTREMELY HARD OR CLAY SOILS, ADD 3/4" GRAVEL UNDER AND AROUND THE UNIT TO ALLOW FASTER WATER INFILTRATION AND ROOT PENETRATION.
  4. ONCE RWS HAS BEEN INSTALLED, FILL THE BASKET WITH PEA GRAVEL BEFORE LOCKING LID.

**5 ROOT WATERING ZONE** Section  
NTS



**6 ISOLATION VALVE** Section  
NTS

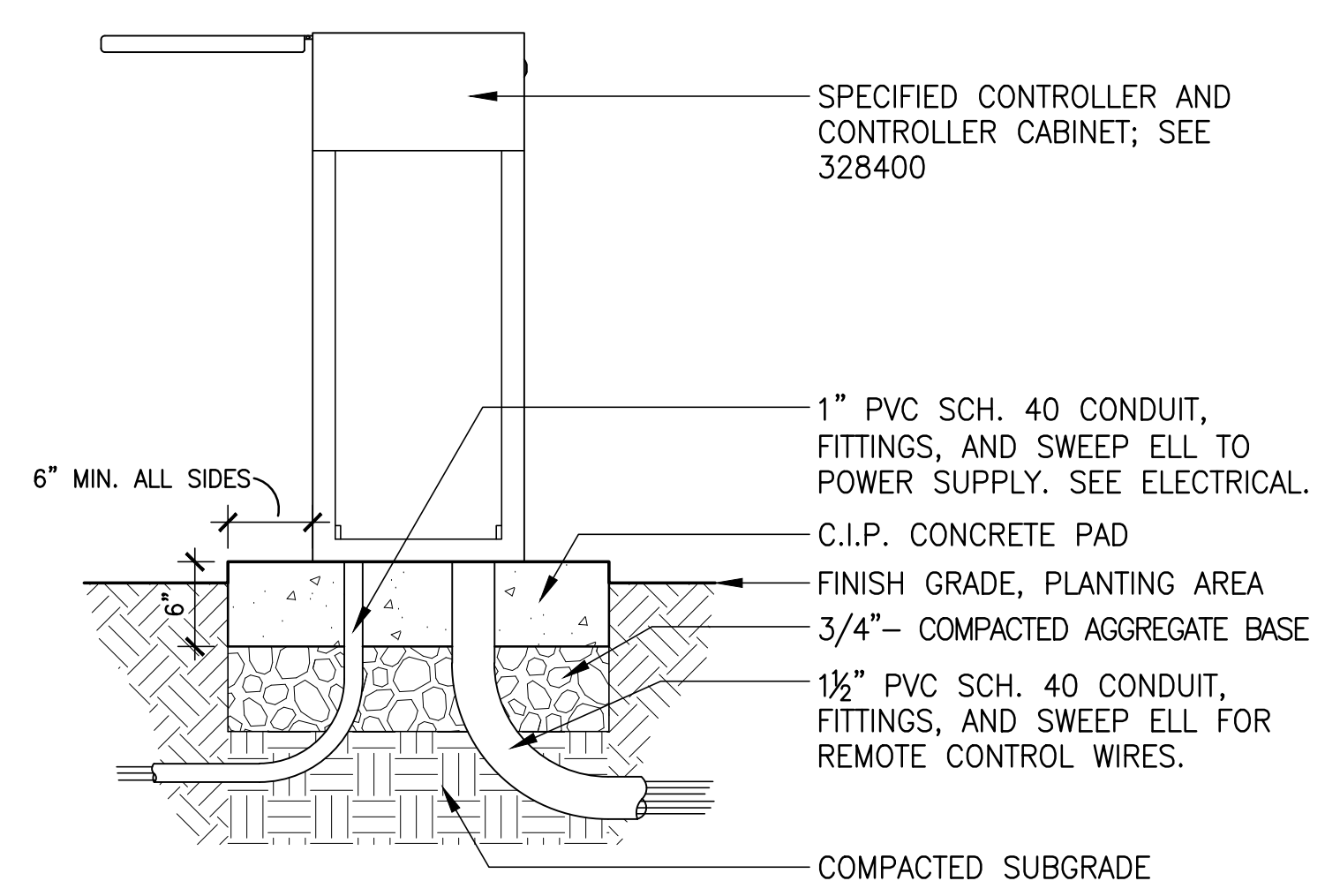
REVISIONS


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DATE 08.30.2022  
PROJECT NO. 2150

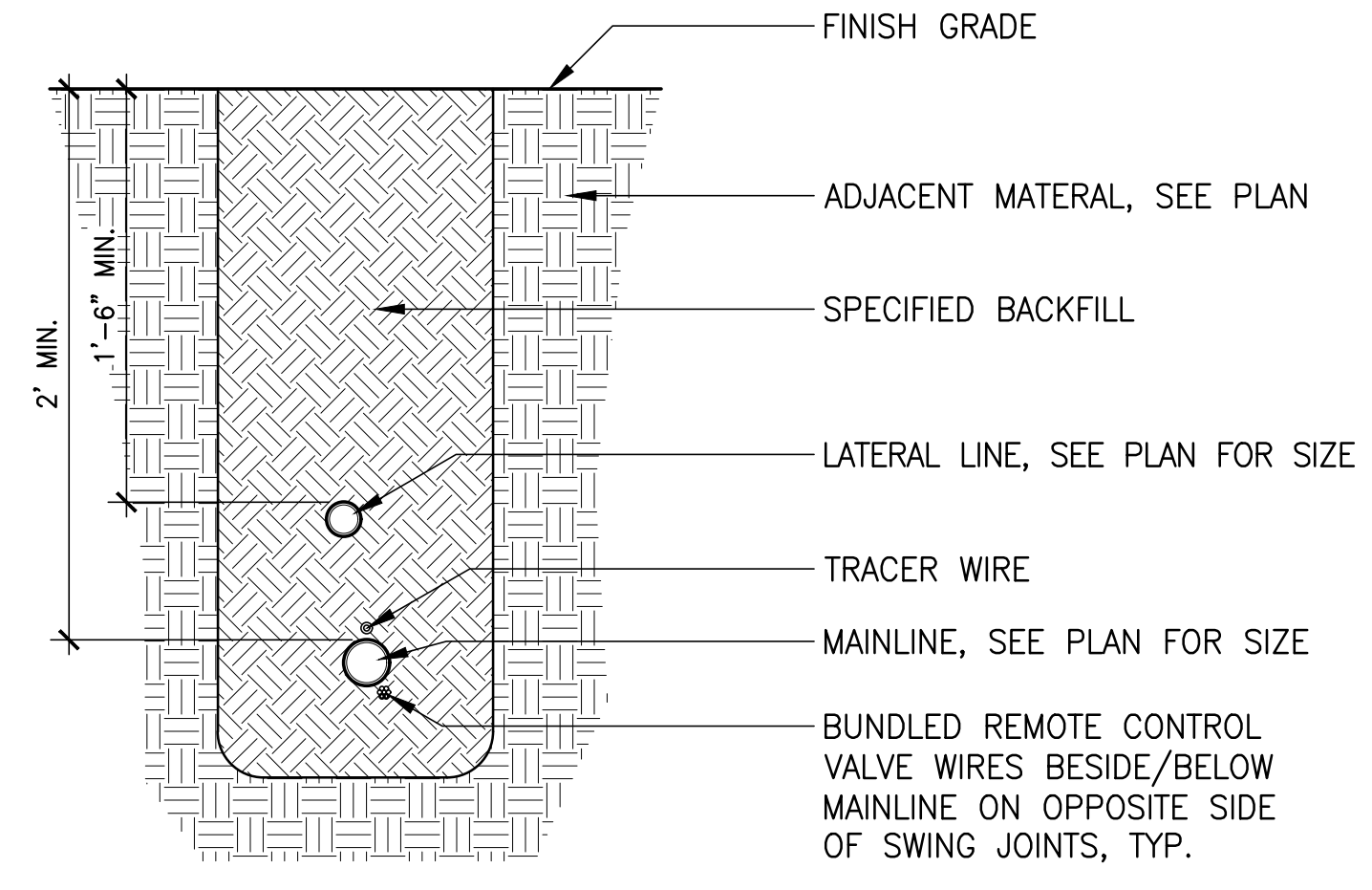
BIDDING DOCUMENTS  
SHEET TITLE

DETAILS

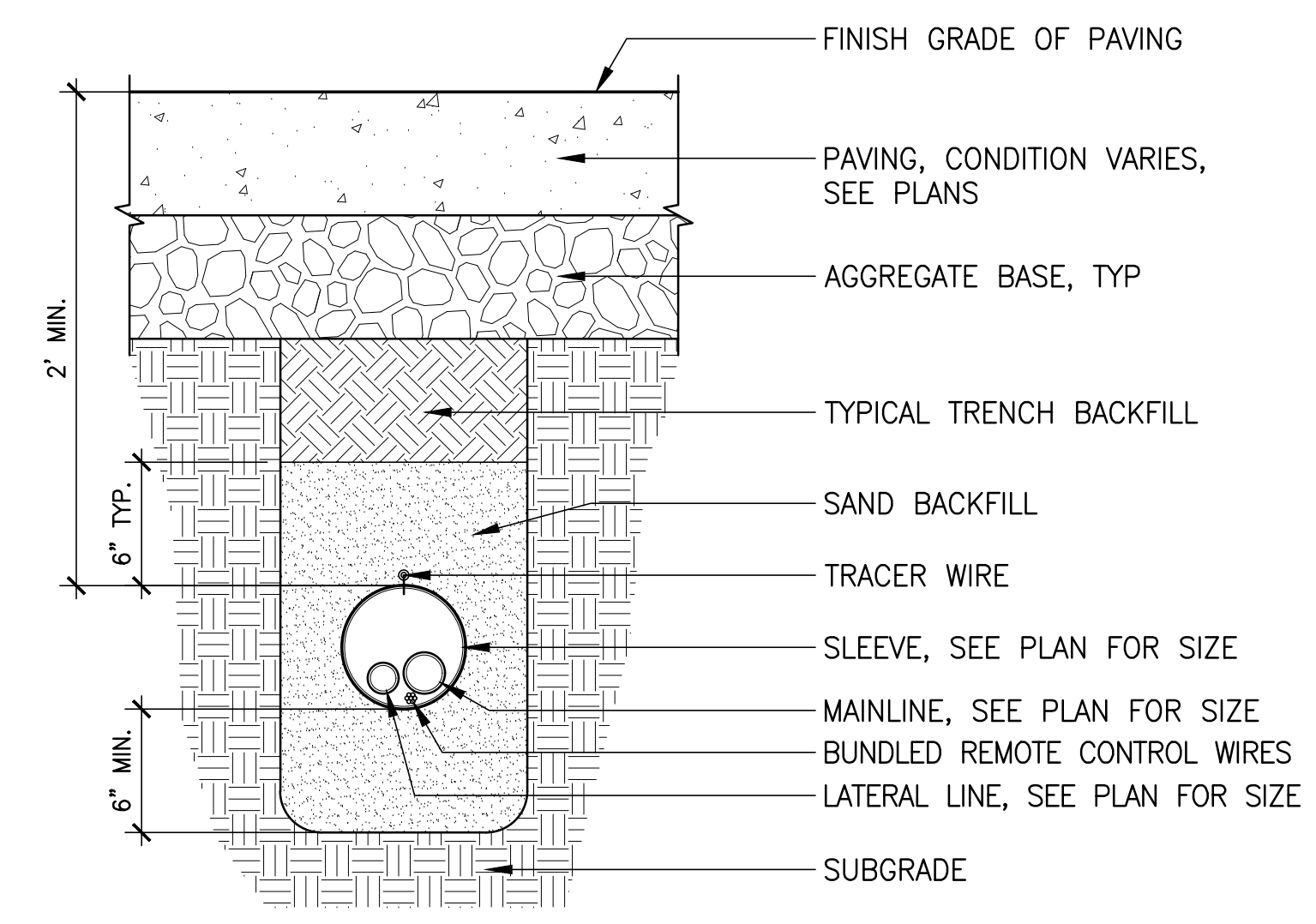




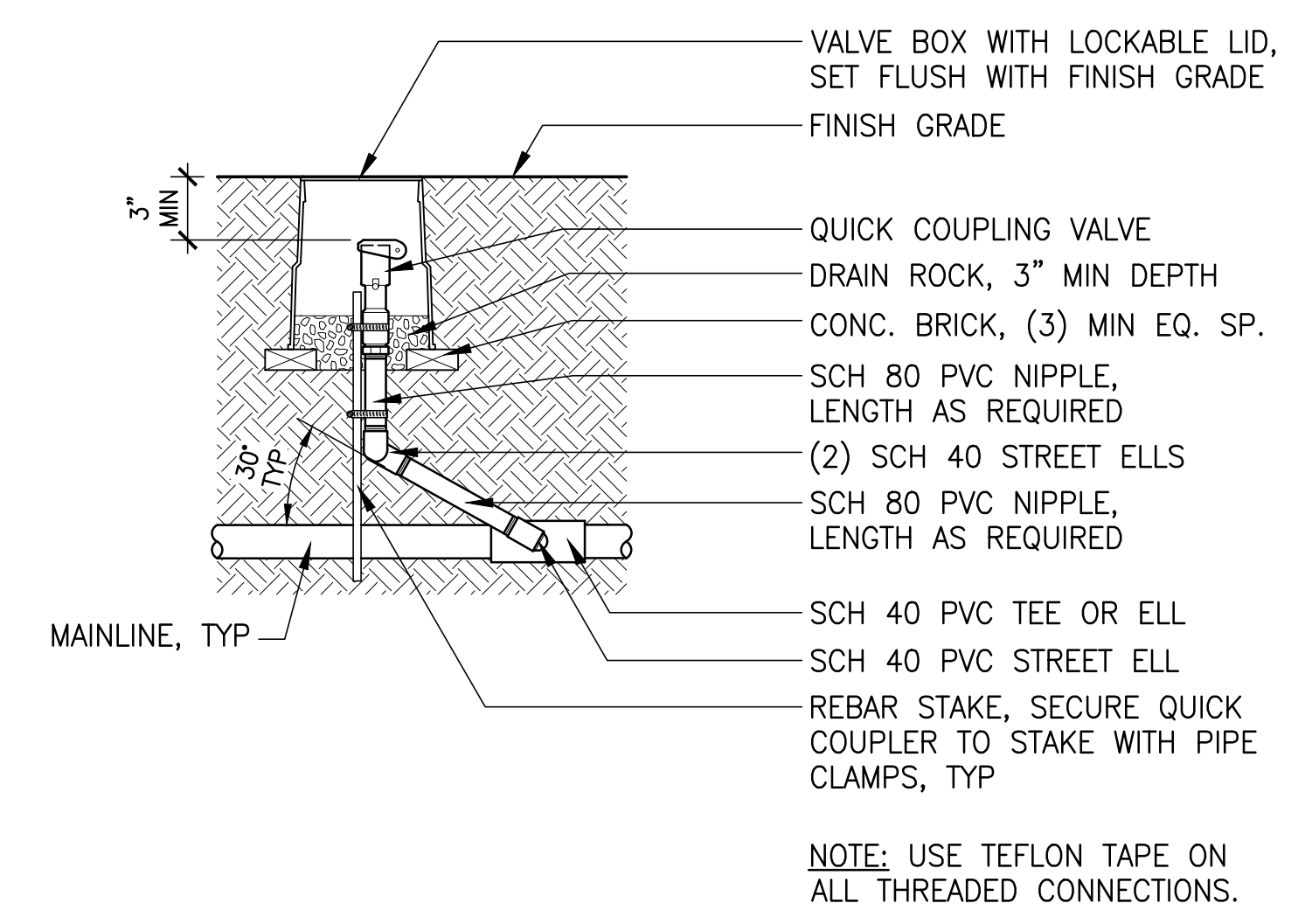
**1 IRRIGATION CONTROLLER** Section NTS



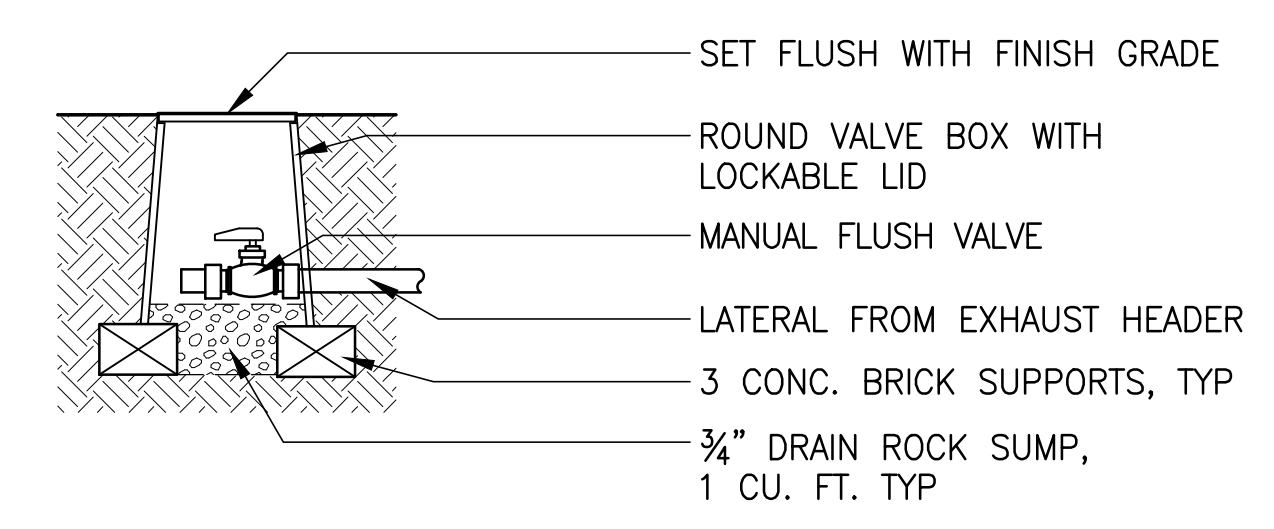
**2 IRRIGATION TRENCH** Section NTS



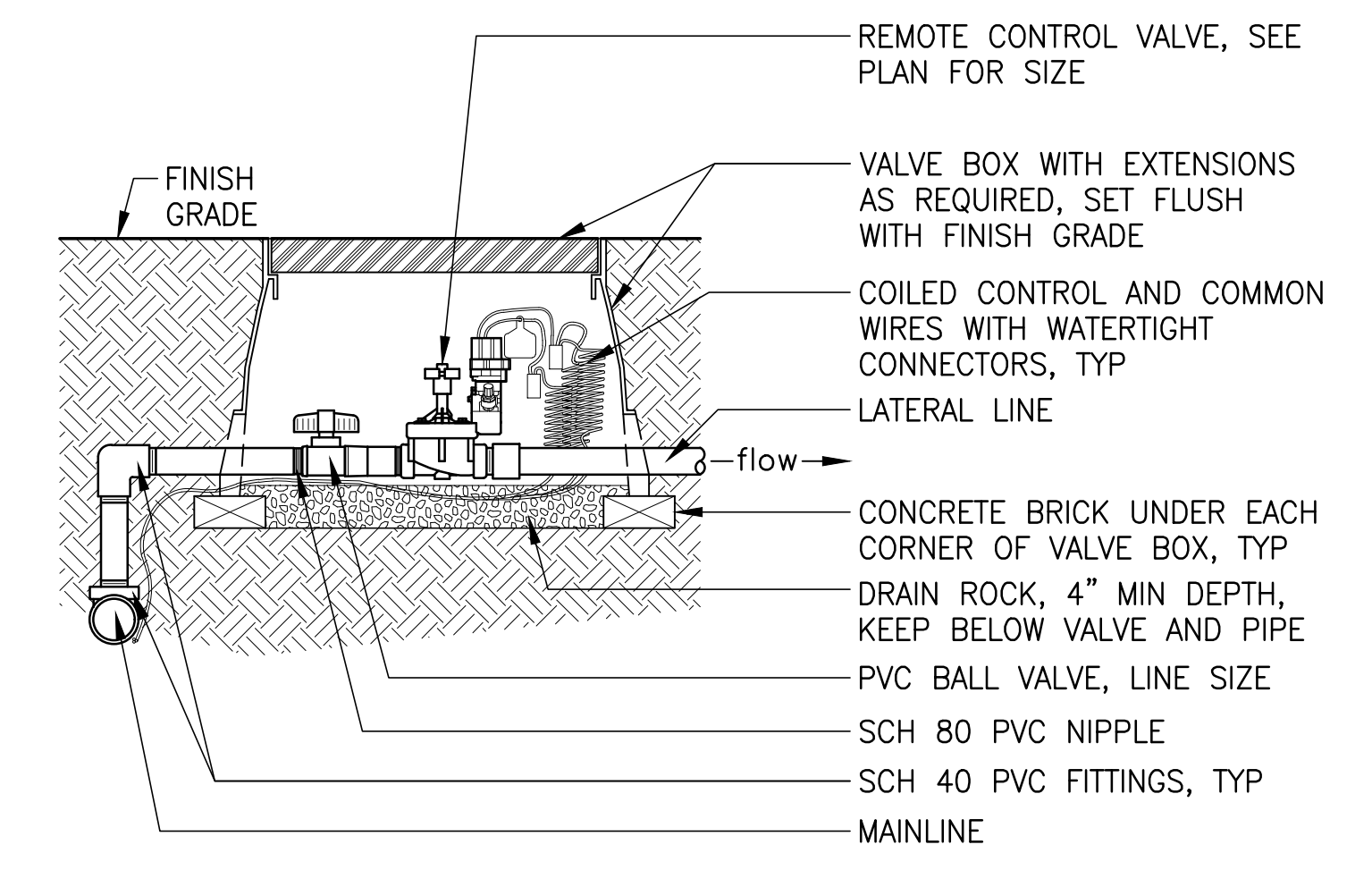
**3 IRRIGATION SLEEVE** Section NTS



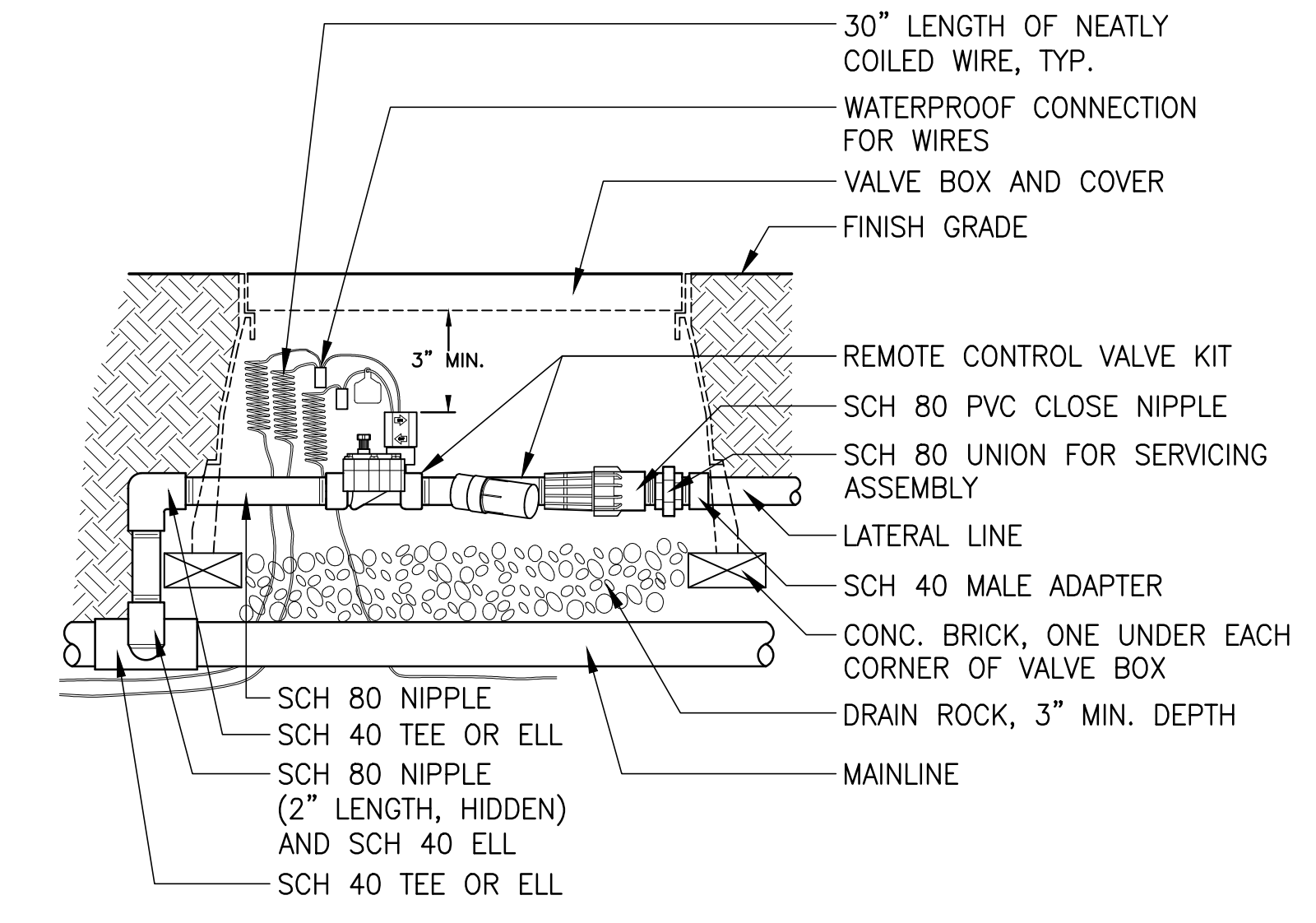
**4 QUICK COUPLER** Section NTS



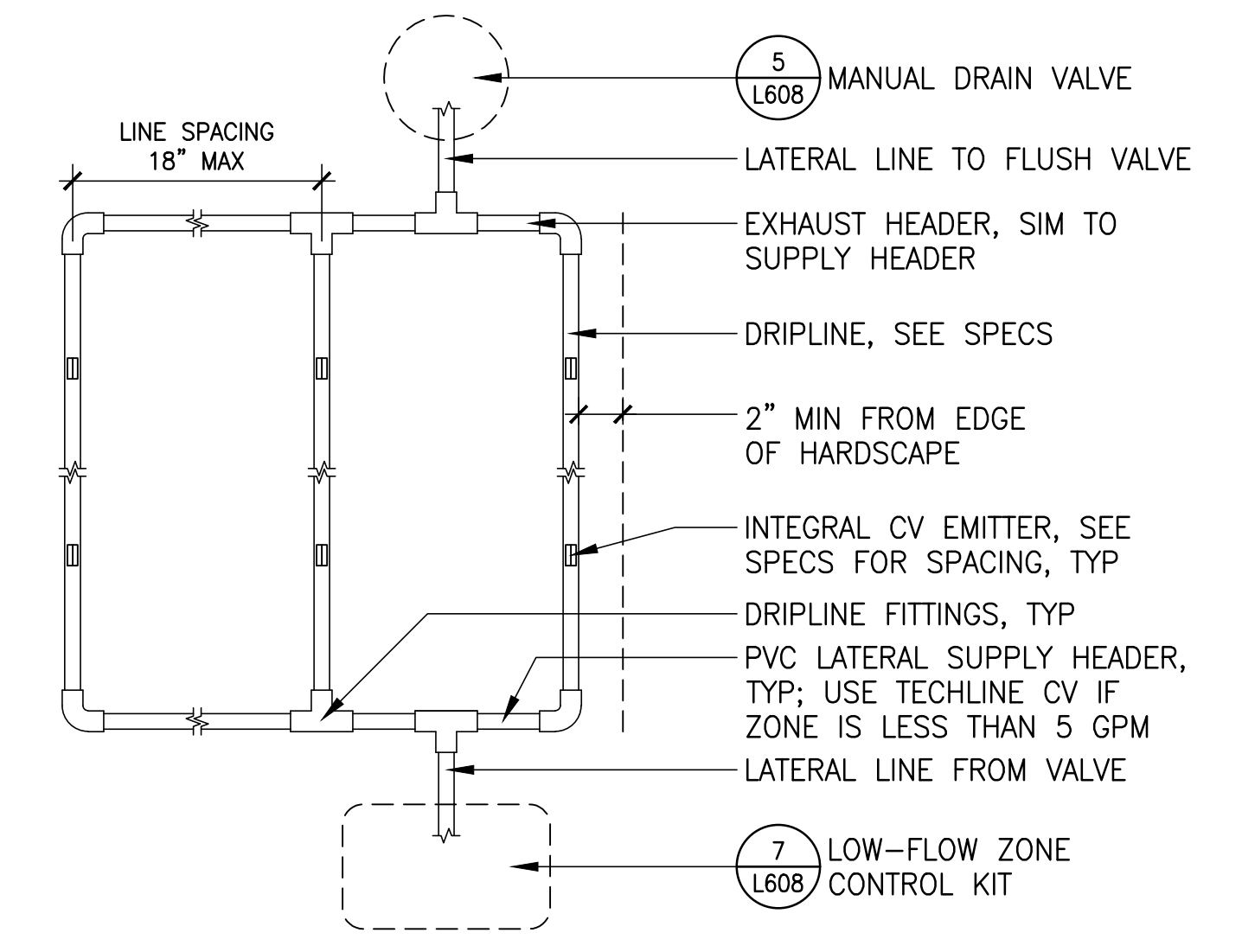
**5 MANUAL DRAIN VALVE** Section NTS



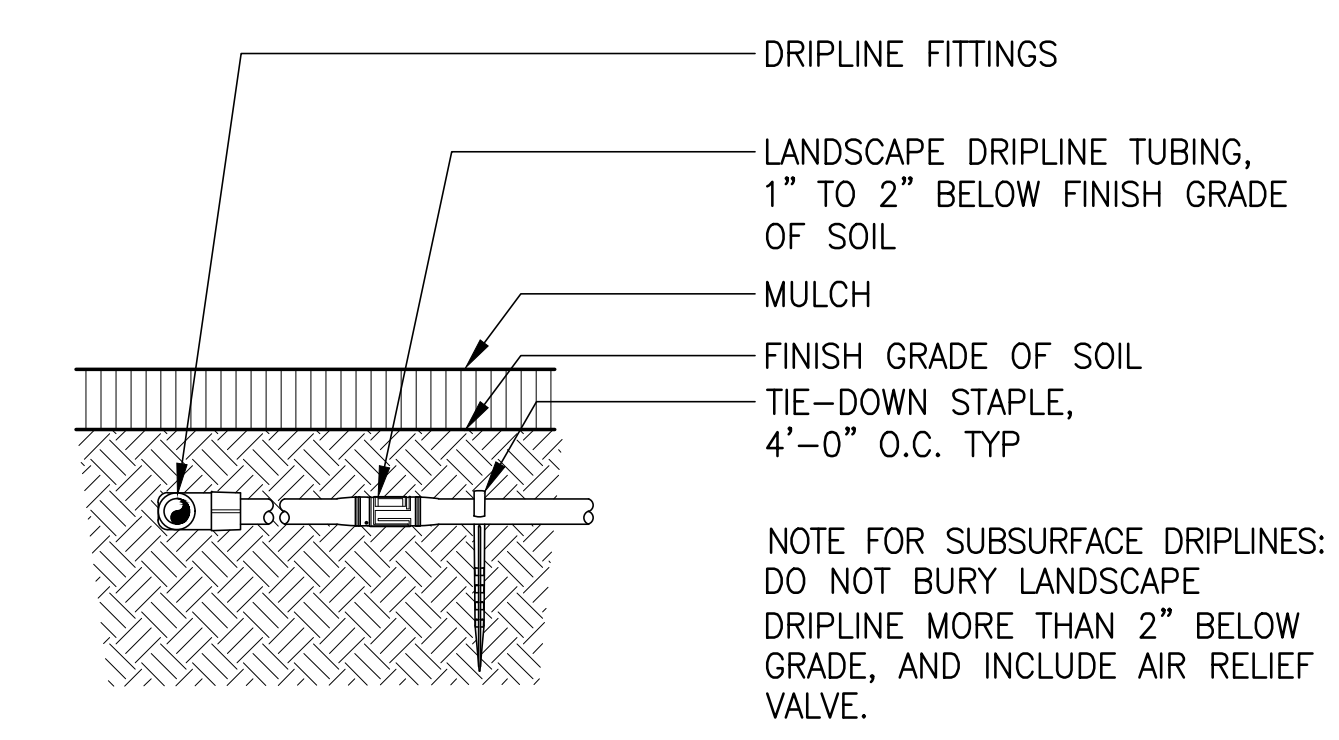
**6 REMOTE CONTROL ZONE WITH BALL VALVE** Section NTS



**7 LOW FLOW ZONE CONTROL KIT** Section NTS



**8 DRIP IRRIGATION LAYOUT** Section NTS



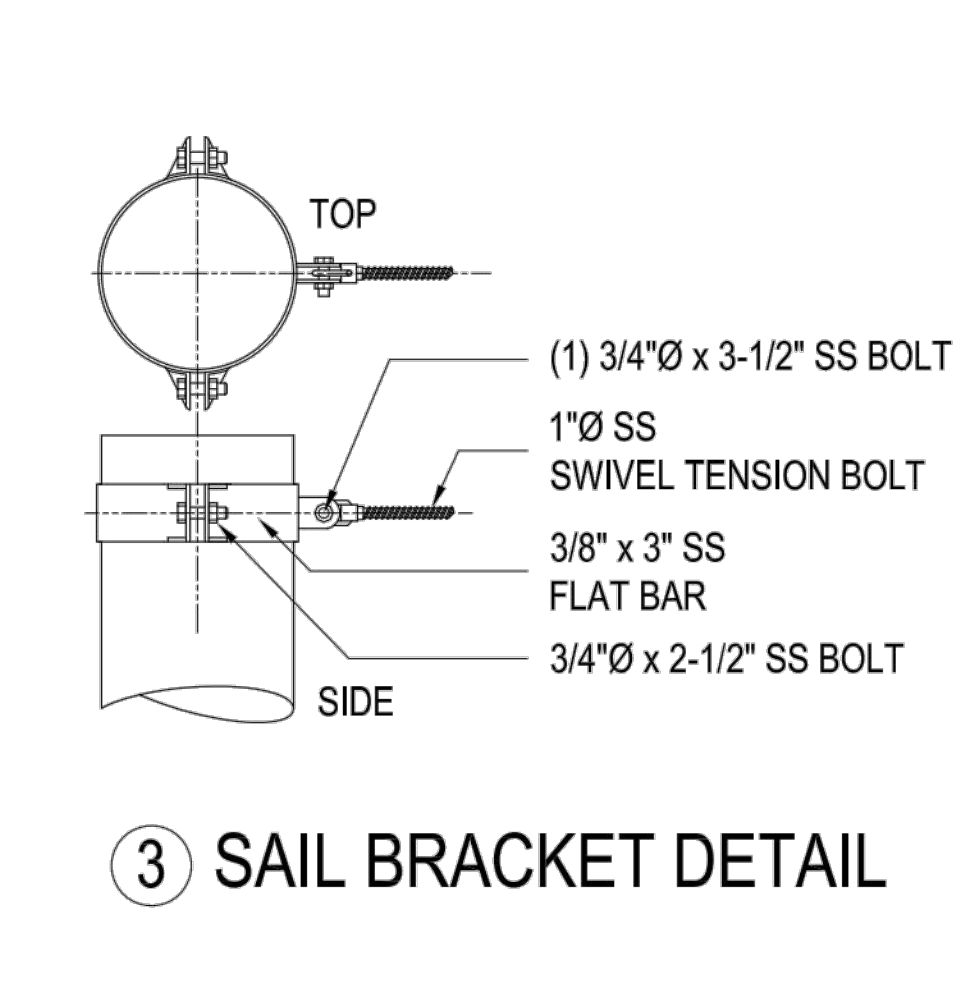
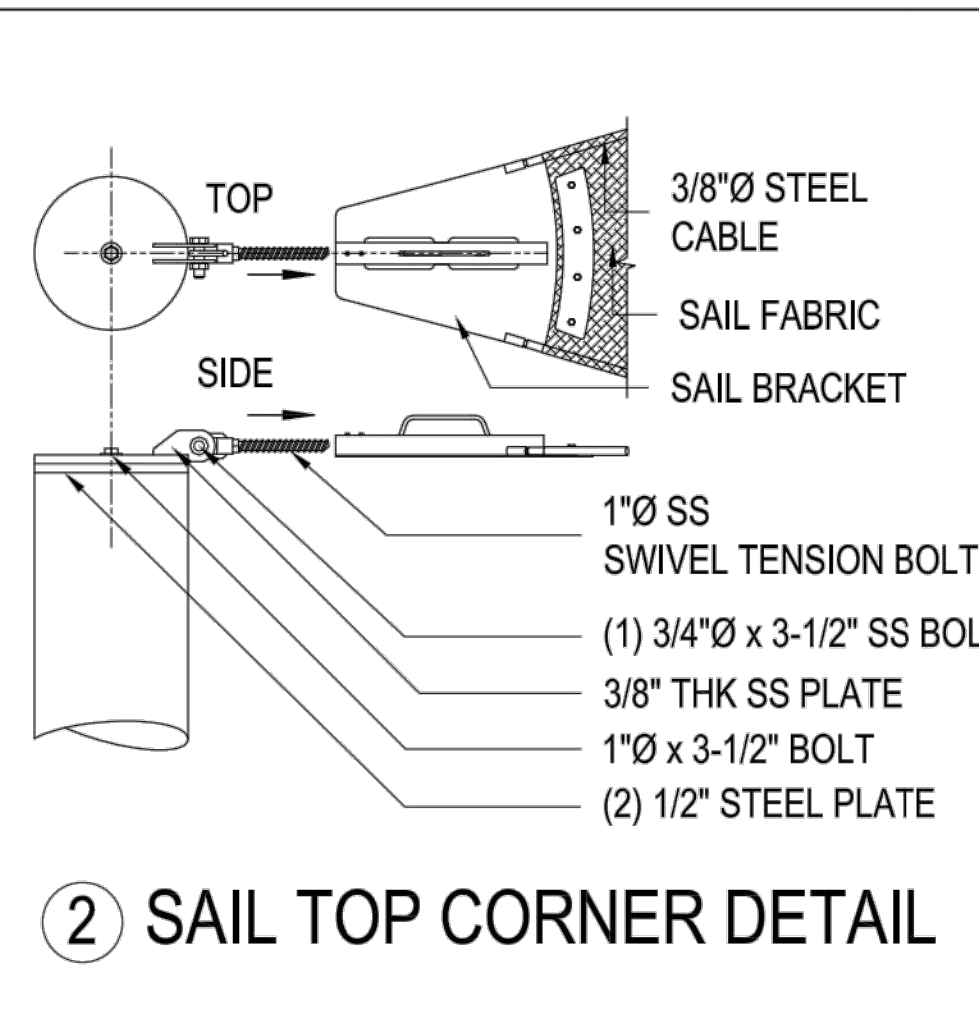
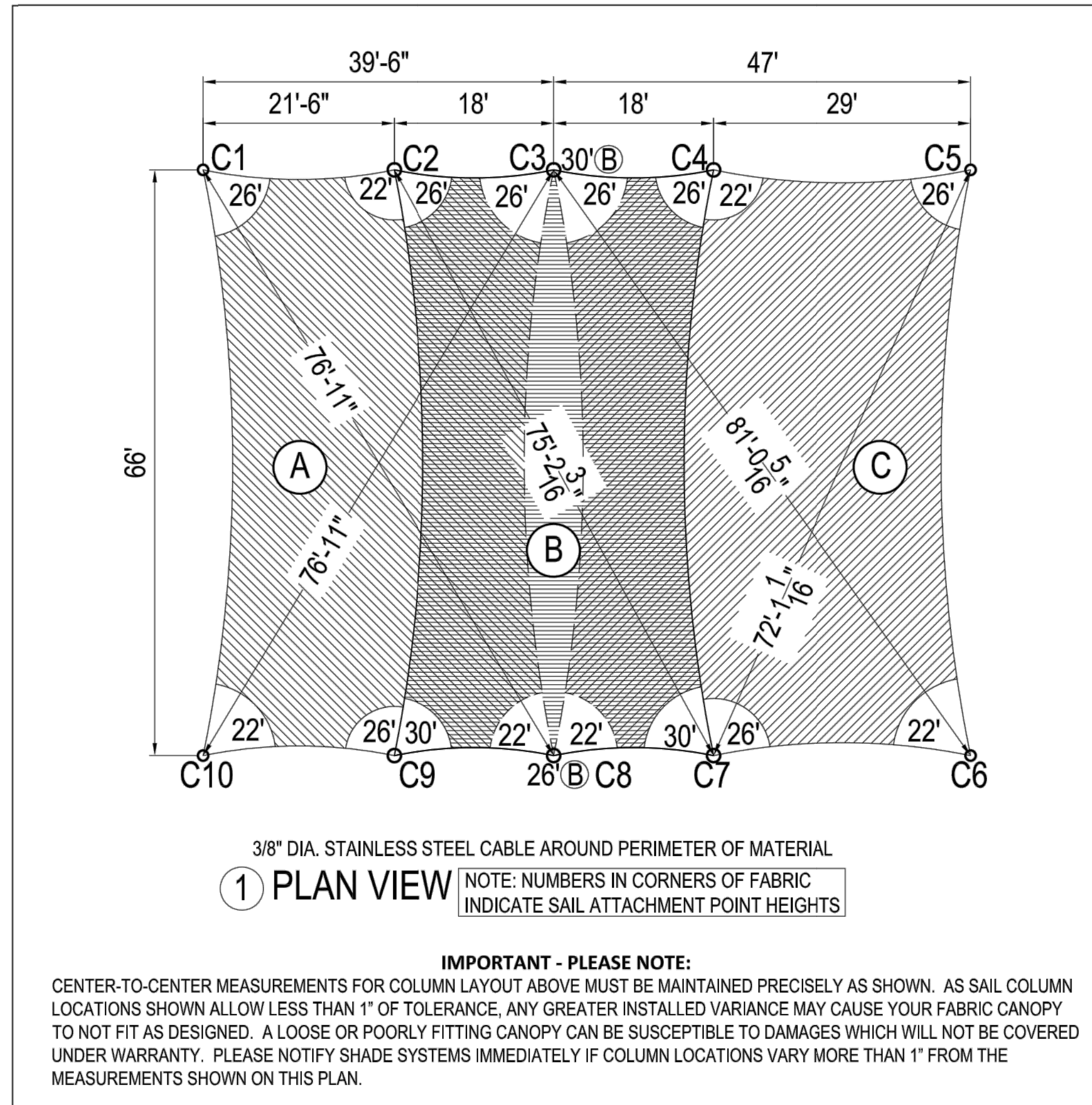
**9 DRIP TUBING INSTALLATION** Section NTS

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PROJECT NO. 2150

BIDDING DOCUMENTS  
SHEET TITLE

DETAILS



**GENERAL NOTES**

1- THE SHADE SYSTEMS, INC.™ STRUCTURE HAS BEEN DESIGNED IN ACCORDANCE WITH THE 2015 IBC CODES ALONG WITH ANY ADOPTED STATE BUILDING CODES AND ASCE 7 TO THE FOLLOWING DESIGN CRITERIA:

CATEGORY	STRUCTURE WITH FABRIC CANOPY REMOVED
EXPOSURE	B
BASIC WIND SPEED	105 MPH

2- THE FOUNDATION ASSUMES SOIL CLASS MATERIAL & VERTICAL FOUNDATION PRESSURE 1500 PSF, LATERAL BEARING PRESSURE 100 PSF/FT. ( PER IBC, TABLE 1808.2)

3- ALL FASTENERS SHALL BE STAINLESS STEEL.

4- ALL BOLTS MUST BE SNUG TIGHT. THE SNUG TIGHTENED CONDITION IS THE TIGHTNESS THAT IS ATTAINED WITH THE FULL EFFORT OF A TYPICAL WORKER USING AN ORDINARY SPUD WRENCH TO BRING THE PILES INTO FIRM CONTACT. SNUG TIGHT IS THE CONDITION THAT EXISTS WHEN ALL THE PILES IN A CONNECTION HAVE BEEN PULLED INTO FIRM CONTACT BY THE BOLTS IN THE JOINT AND ALL THE BOLTS IN THE JOINT HAVE BEEN TIGHTENED SUFFICIENTLY TO PREVENT THE REMOVAL OF THE NUTS WITHOUT THE USE OF A WRENCH.

5- FABRIC MAY NOT WITHSTAND WINDS IN EXCESS OF 90 MPH AND THEREFORE IT SHALL BE RELEASED.

**STEEL:**

1- GALV. STEEL TUBES MIN Fy=50KSI. STEEL ROUND PIPE SHALL BE ASTM A53 GRADE B. STEEL HSS ROUND AND HSS RECTANGULAR SHALL BE ASTM A500 GRADE B. STEEL PLATE SHALL CONFORM WITH ASTM A36.

2- ALL PARTS SHALL BE FACTORY-WELDED TO AMERICAN WELDING SOCIETY (AWS) SPECIFICATIONS AND SHALL UTILIZE E70-88 AND HAVE THE HIGHEST STANDARDS OF QUALITY WORKMANSHIP.

3- ALL WELDS SHALL BE FILLET WELDS WITH MAXIMUM PERMISSIBLE THROAT THICKNESS OR FULL PENETRATION GROOVE WELDS.

**CONCRETE:**

1- ALL CONCRETE SHALL BE MIXED AND PLACED IN ACCORDANCE WITH THE LATEST EDITION OF ACI 301 AND 318.

2- CONCRETE SHALL HAVE A MINIMUM 28 DAY COMPRESSIVE STRENGTH (f'c) OF 3000 PSI. A CONCRETE MIX HAVING A LISTED STRENGTH OF AT LEAST 3000 PSI THAT IS MIXED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS IS ACCEPTABLE FOR USE.

3- REINFORCING STEEL SHALL BE ASTM A-615 GRADE 60 WITH A MINIMUM YIELD STRENGTH (fy) OF 60 KSI.

4- UNLESS OTHERWISE SHOWN, CONCRETE COVER SHALL BE 3" (MIN).

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**NOTE TO OWNER:**  
OWNER ACCEPTS FULL RESPONSIBILITY FOR REMOVING THE FABRIC SHADE MATERIAL FROM THE STEEL FRAME WHEN SEVERE WEATHER CONDITIONS ARE PREDICTED. SUCH CONDITIONS INCLUDE PREDICTED WIND SPEEDS IN EXCESS OF 90 MPH. ALSO, AS STRUCTURE IS NOT DESIGNED FOR ANY SNOW LOAD, IT IS RECOMMENDED THAT CANOPY BE REMOVED WHEN SNOWFALL IS EXPECTED.

**Shade systems™**  
4150 S.W. 19 Street  
Ocala, FL 34474  
Tel.: 1-800-609-6066

**Sherwood Square**  
**16020 SW 1st Street**  
**Sherwood, OR 97140**

Approved: \_\_\_\_\_  
REGISTERED PROFESSIONAL ENGINEER  
OREGON  
JAN 8, 2015  
YURIANTO YURIANTO  
By Yuri at 2:53:01 PM, 8/19/2022

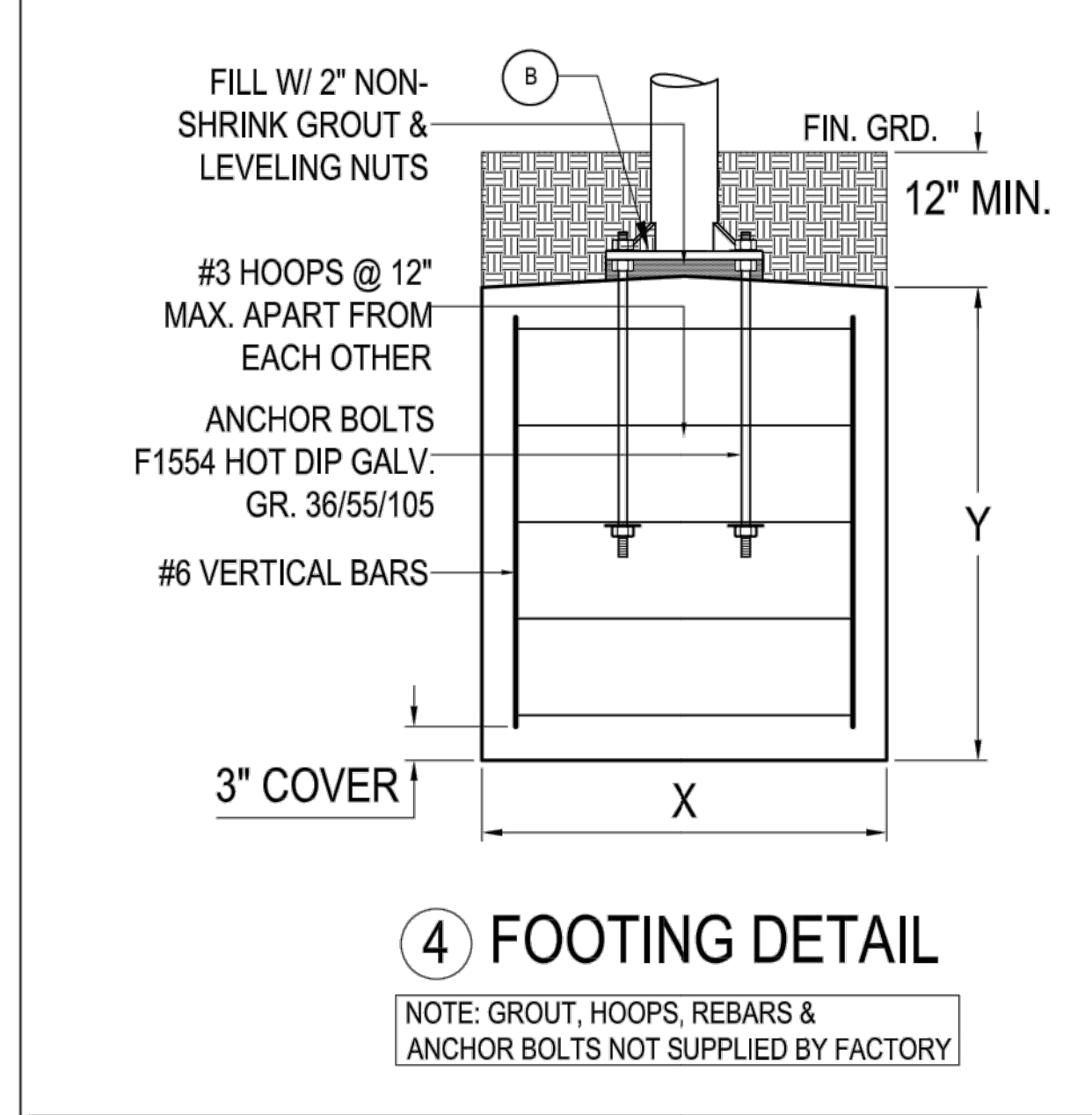
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Model No.: SAIL

Revisions

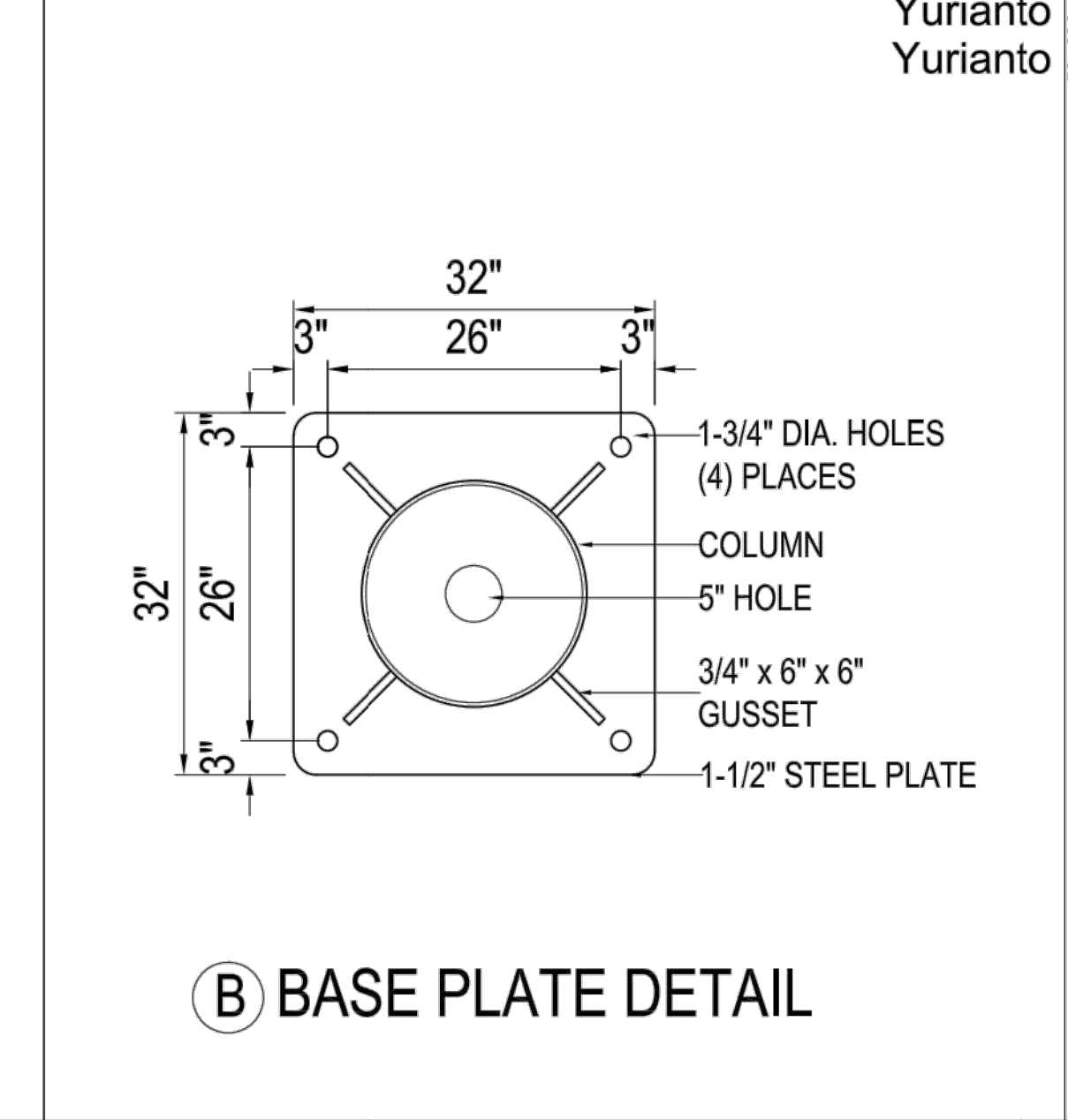
REP: \_\_\_\_\_

REP QTE. NO. Q-07220

Approved: JRB	Job: 8372
Checked: MG	
Drawn: NB	
Date: 08/17/2022	Sheets: 1 OF 1
NOT TO SCALE	



	STEEL COLUMN	FOOTER		ANCHOR BOLT SIZE	ANCHOR BOLT LENGTH	NUMBER OF VERTICAL BARS
		X	Y			
C1	20" DIA. X .375" WALL	54" Ø	120"	1-1/2"Ø	36	26
C2	20" DIA. X .375" WALL	54" Ø	160"	1-1/2"Ø	36	26
C3	20" DIA. X .375" WALL	54" Ø	160"	1-1/2"Ø	36	26
C4	20" DIA. X .375" WALL	54" Ø	160"	1-1/2"Ø	36	26
C5	20" DIA. X .375" WALL	54" Ø	120"	1-1/2"Ø	36	26
C6	20" DIA. X .375" WALL	54" Ø	120"	1-1/2"Ø	36	26
C7	20" DIA. X .375" WALL	54" Ø	160"	1-1/2"Ø	36	26
C8	20" DIA. X .375" WALL	54" Ø	160"	1-1/2"Ø	36	26
C9	20" DIA. X .375" WALL	54" Ø	160"	1-1/2"Ø	36	26
C10	20" DIA. X .375" WALL	54" Ø	120"	1-1/2"Ø	36	26



SHERWOOD FESTIVAL PLAZA

CITY OF SHERWOOD  
15527 SW Wilamette Street  
Sherwood, OR 97140

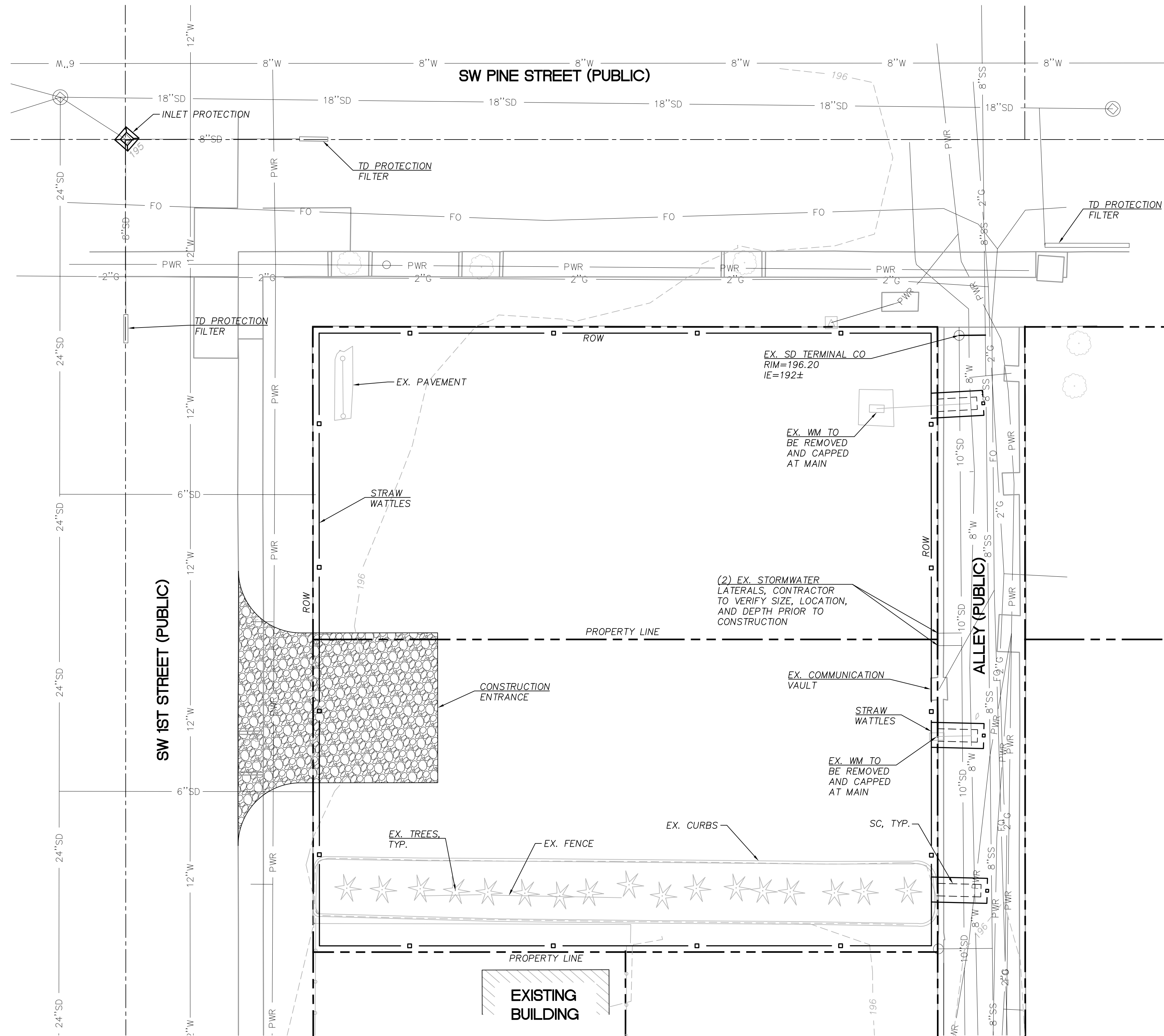
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DATE 08.30.2022  
PROJECT NO. 2150

BIDDING DOCUMENTS  
SHEET TITLE

CANOPY DETAILS





SHEET LEGEND		
SYMBOL	DESCRIPTION	REFERENCE
	STRAW WATTLE	7 C300
	CONSTRUCTION ENTRANCE	9 C300

**SHEET NOTES**

- INSTALL INLET PROTECTION WITHIN 200FT OF THIS SITE IN ALL DIRECTIONS.

**lango.hansen**  
LANDSCAPE ARCHITECTS  
1100 nw glisan #30  
portland or 97209

REGISTERED PROFESSIONAL ENGINEER  
49393  
ALLEN SCHMITZ  
OREGON  
SEPT. 12, 2017  
RENEWAL DATE 6/30/2024

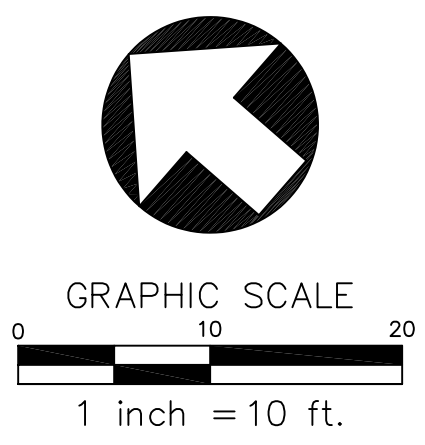
**H**

**Humber Design Group, Inc.**  
Civil Engineering  
503.946.6690  
hdgpd.com

**SHERWOOD FESTIVAL PLAZA**  
CITY OF SHERWOOD  
15527 SW Wilamette Street  
Sherwood, OR 97140

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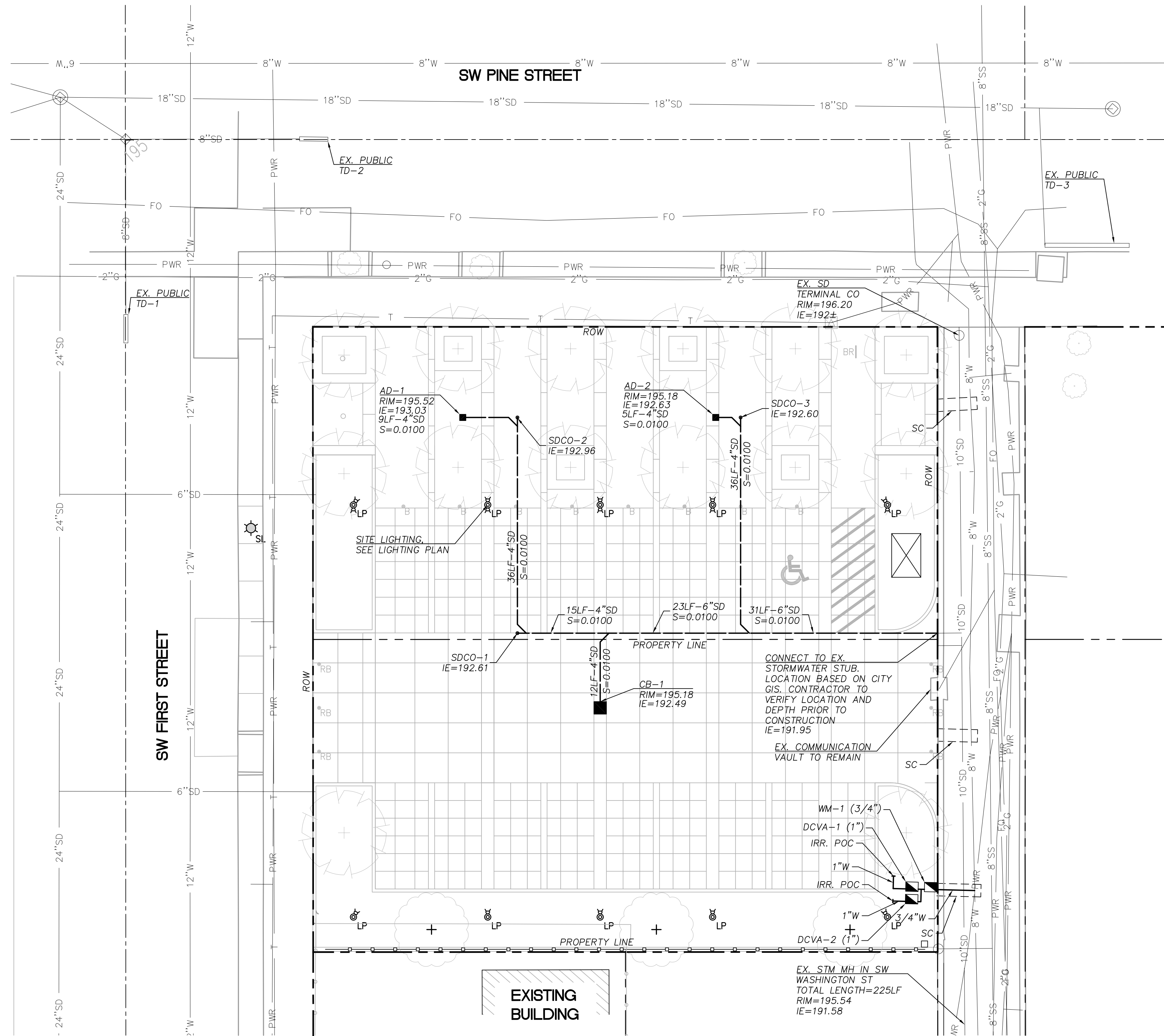

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DATE 08.30.2022  
PROJECT NO. 2150



BIDDING DOCUMENTS

SHEET TITLE  
**EROSION AND SEDIMENT CONTROL PLAN**

**C100**



SYMBOL	DESCRIPTION	REFERENCE
	STORM DRAIN	
	DOMESTIC WATER	
	AREA DRAIN	3 C300
	DCVA	5 C300
	WATER METER	W-7C C300
	CATCH BASIN	4 C300
	CLEANOUT	2 C300

- SHEET NOTES**
- CONTRACTOR TO VERIFY LOCATION AND DEPTH OF STORMWATER STUB PRIOR TO CONSTRUCTION.
  - SEE SHEET L201 FOR DIMENSIONAL LAYOUT OF AREA DRAINS.

**lango.hansen**  
LANDSCAPE ARCHITECTS  
1100 nw glisan #30  
portland or 97209

REGISTERED PROFESSIONAL ENGINEER  
198983  
OREGON  
SEPT. 12, 2011  
ALLEN SCHMITZ  
RENEWAL DATE 6/30/2024

**H**

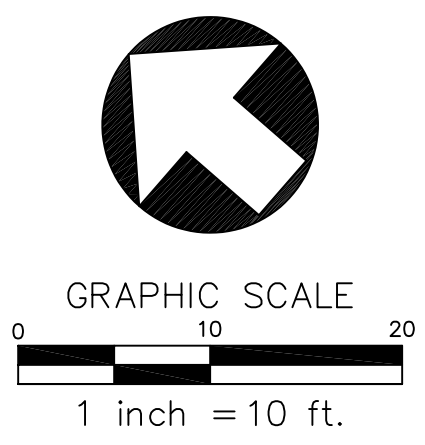
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503.946.6690  
hdgpd.com

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CITY OF SHERWOOD  
15527 SW Willamette Street  
Sherwood, OR 97140

REVISIONS

NO.	DESCRIPTION

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PROJECT NO. 2150



BIDDING DOCUMENTS  
SHEET TITLE  
**UTILITY PLAN**  
**C200**



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Design  
Group, Inc.

Civil Engineering  
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hdgpd.com

SHERWOOD FESTIVAL PLAZA

CITY OF SHERWOOD  
15527 SW Wilamette Street  
Sherwood, OR 97140

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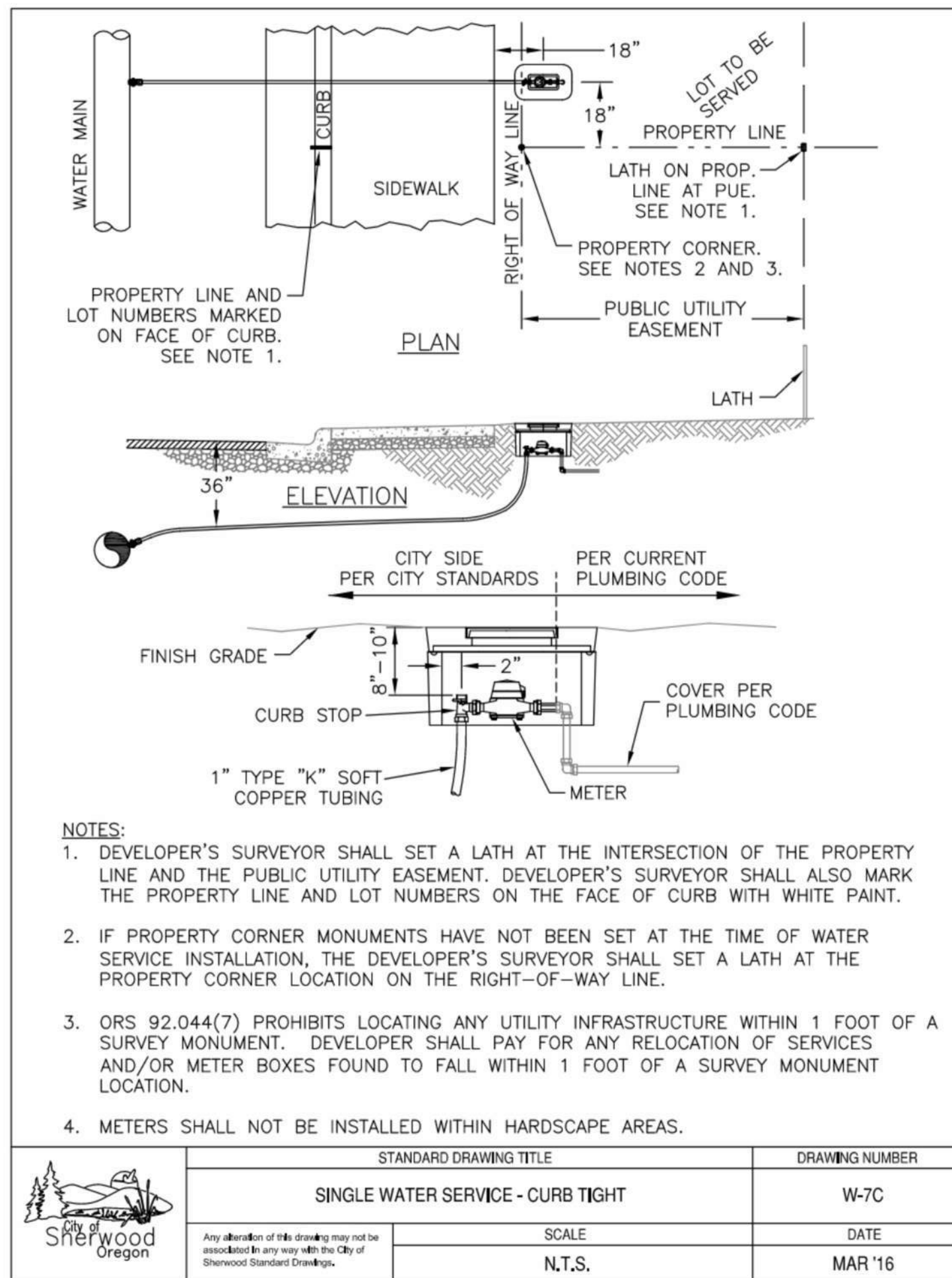
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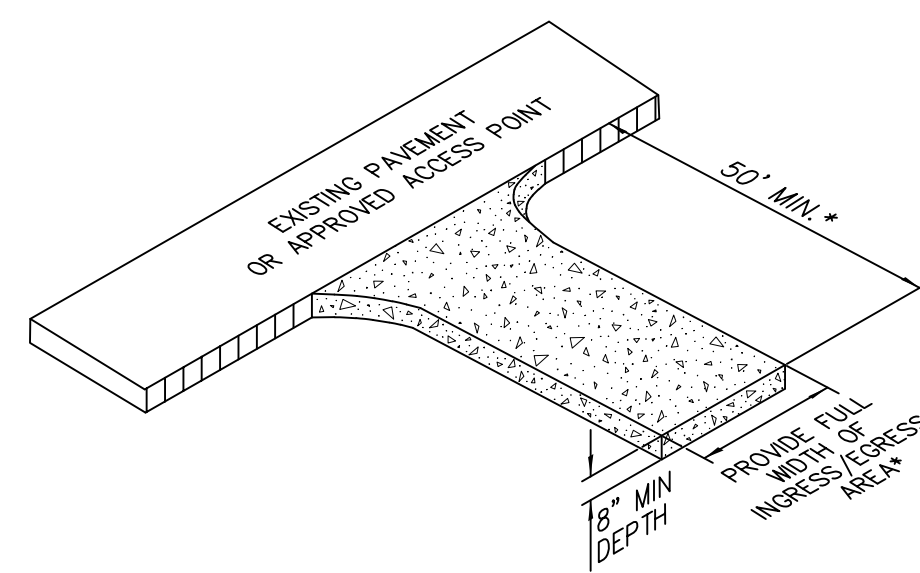
DETAILS

C300



- NOTES:
- DEVELOPER'S SURVEYOR SHALL SET A LATH AT THE INTERSECTION OF THE PROPERTY LINE AND THE PUBLIC UTILITY EASEMENT. DEVELOPER'S SURVEYOR SHALL ALSO MARK THE PROPERTY LINE AND LOT NUMBERS ON THE FACE OF CURB WITH WHITE PAINT.
  - IF PROPERTY CORNER MONUMENTS HAVE NOT BEEN SET AT THE TIME OF WATER SERVICE INSTALLATION, THE DEVELOPER'S SURVEYOR SHALL SET A LATH AT THE PROPERTY CORNER LOCATION ON THE RIGHT-OF-WAY LINE.
  - ORS 92.044(7) PROHIBITS LOCATING ANY UTILITY INFRASTRUCTURE WITHIN 1 FOOT OF A SURVEY MONUMENT. DEVELOPER SHALL PAY FOR ANY RELOCATION OF SERVICES AND/OR METER BOXES FOUND TO FALL WITHIN 1 FOOT OF A SURVEY MONUMENT LOCATION.
  - METERS SHALL NOT BE INSTALLED WITHIN HARDSCAPE AREAS.

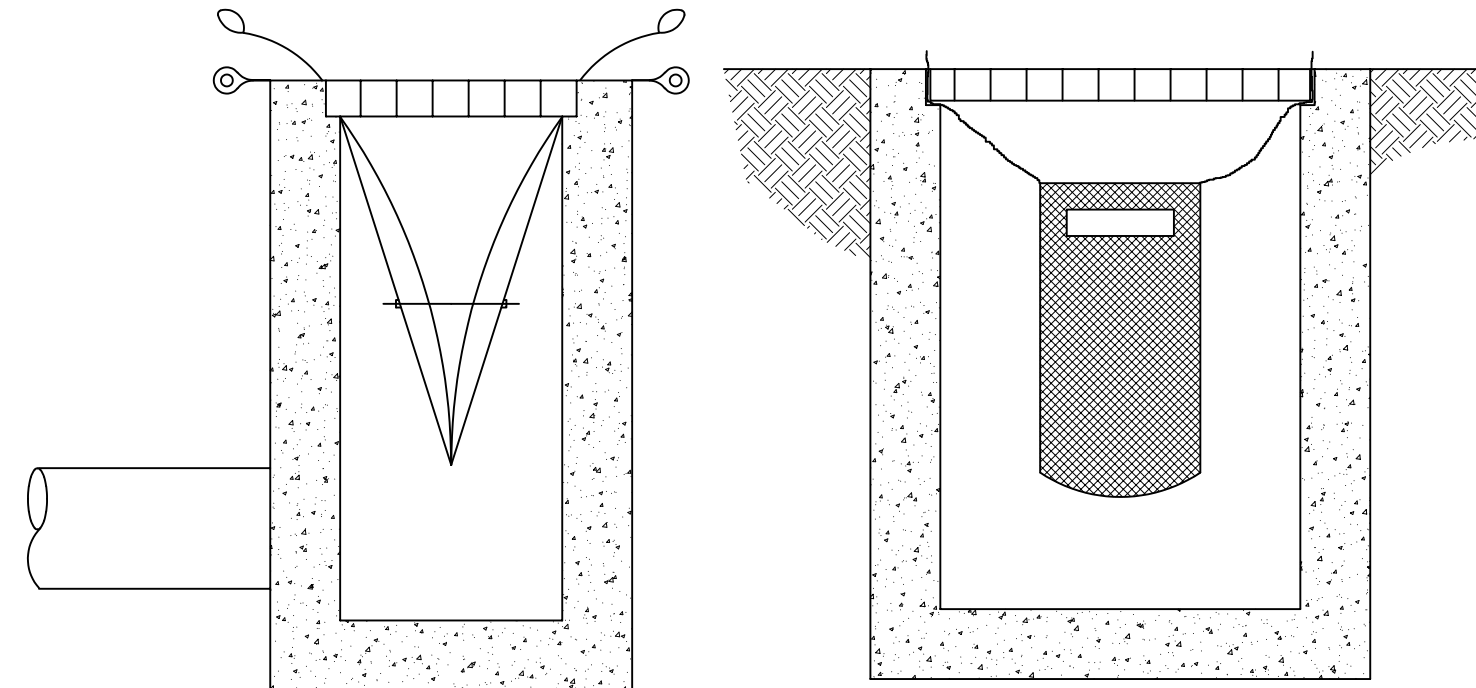
STANDARD DRAWING TITLE	DRAWING NUMBER
SINGLE WATER SERVICE - CURB TIGHT	W-7C
SCALE	DATE
N.T.S.	MAR '16



NOTE:

\*20' MIN. FOR SINGLE FAMILY AND DUPLEX RESIDENTIAL

**9 CONSTRUCTION ENTRANCE**  
NTS

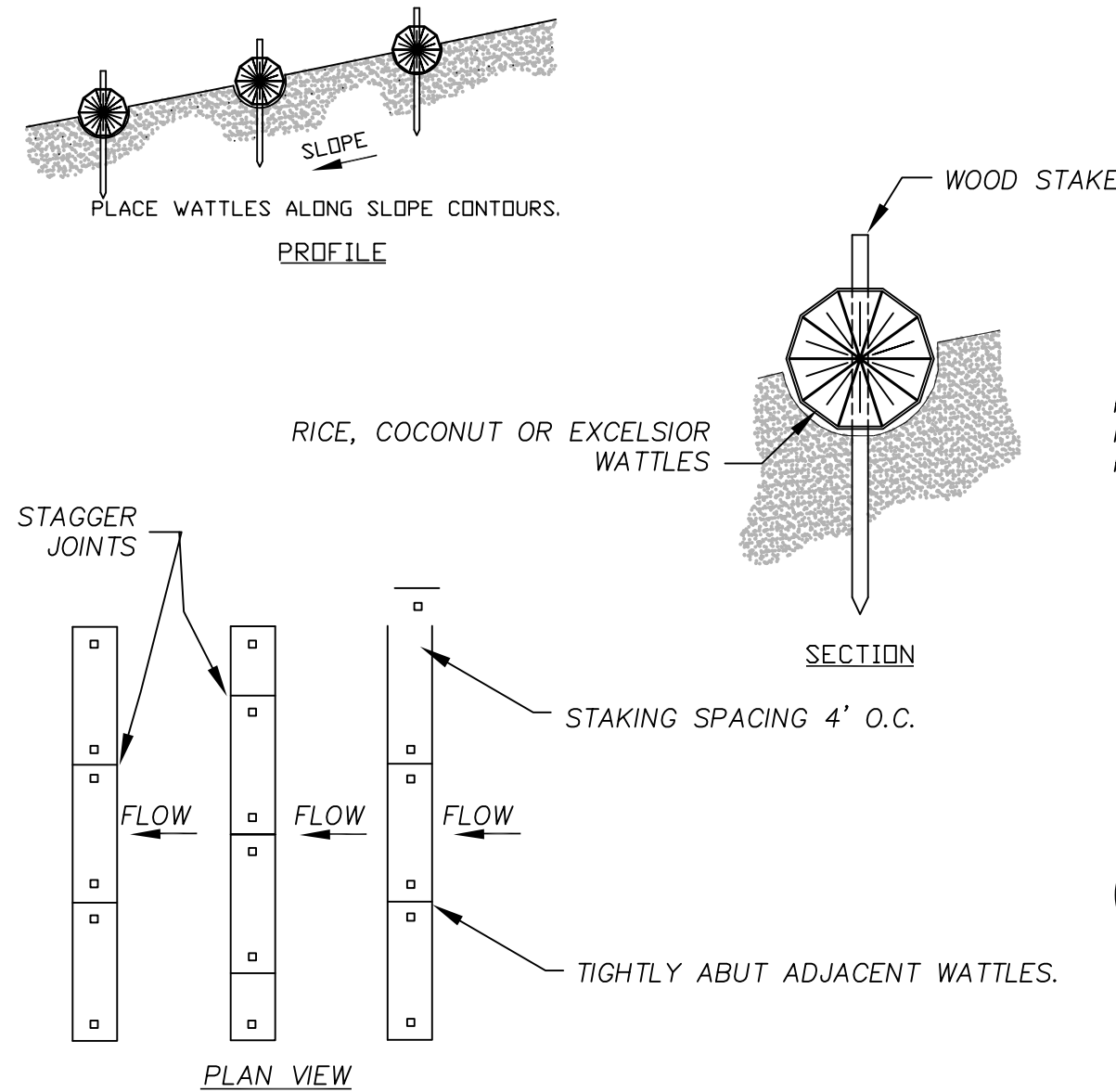


**INSERT SACK**  
SIDE VIEW FRONT VIEW

NOTE:

- REPLACE BIOFILTER BAGS WITH INSERT SACKS AFTER THE FIRST LIFT OF PAVING.

**8 FILTER FABRIC INLET PROTECTION**  
NTS



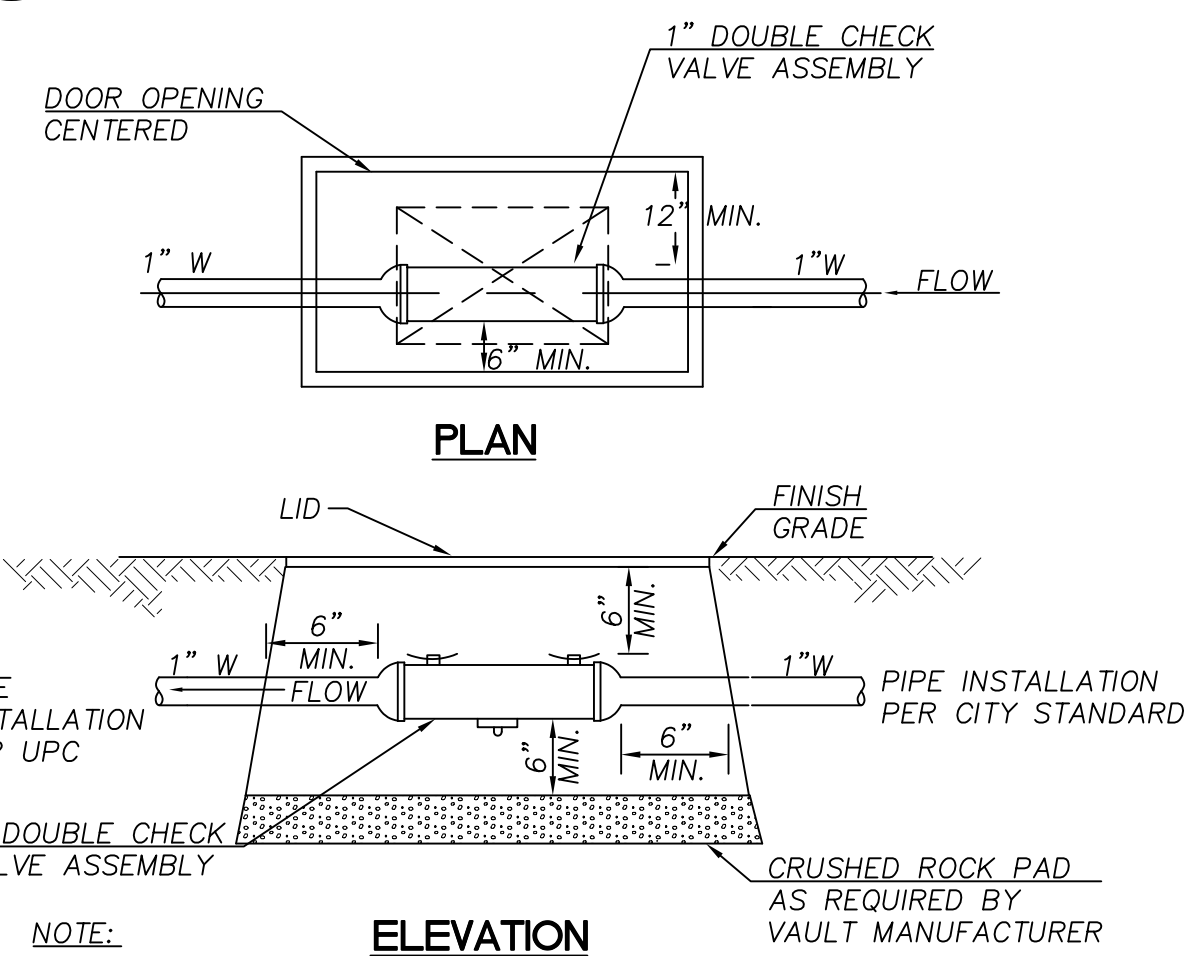
NOTES:

- STAKING SPECIFICATIONS:
  - 1"x2" WOODEN STAKES
  - ADDITIONAL STAKES MAY BE INSTALLED ON DOWNHILL SIDE OF WATTLES, ON STEEP SLOPE OR HIGHLY EROSIIVE SOILS.
- SPACING IN ACCORDANCE WITH TABLE BELOW.

BARRIER SPACING FOR GENERAL APPLICATION		
INSTALL PARALLEL ALONG CONTOURS AS FOLLOWS		
% SLOPE	SLOPE	MAXIMUM SPACING ON SLOPE
10% OR FLATTER	10:1 OR FLATTER	300 FT
>10% OR <15%	>10:1 OR <7.5:1	150 FT
>15% OR <20%	>7.5:1 OR <5:1	100 FT
>20% OR <30%	>5:1 OR <3.5:1	50 FT
>30% OR <50%	>3.5:1 OR <2:1	25 FT

**7 STRAW WATTLES**  
NTS

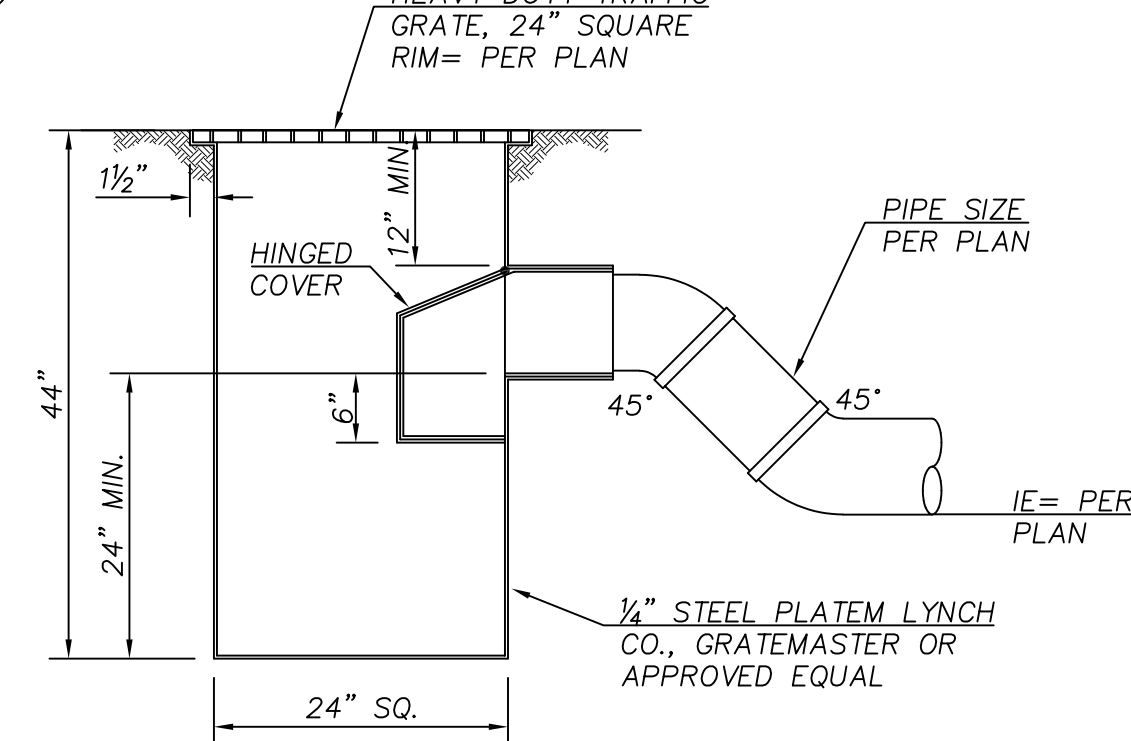
**6 NOT USED**  
NTS



NOTE:

- THE CONTRACTOR SHALL BE RESPONSIBLE FOR SIZING OF UTILITY VAULTS TO ACCOMMODATE THE VALVE EQUIPMENT THE CONTRACTOR SELECTS. VAULT SIZE AS NOTED FOR REFERENCE ONLY AND IS NOT GUARANTEED TO MEET REQUIREMENTS.

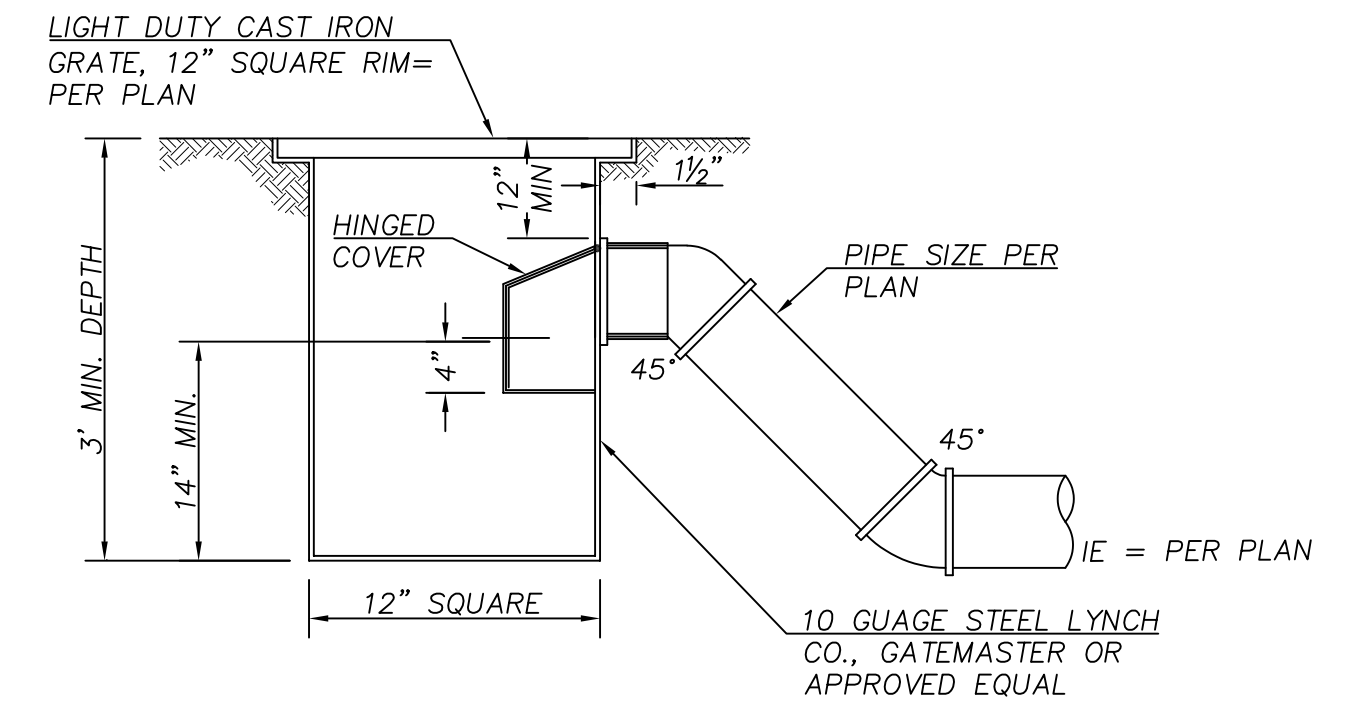
**5 DOUBLE CHECK VALVE ASSEMBLY (DCVA)**  
NTS



NOTES:

- ALL STEEL WELDED CONSTRUCTION.
- COATED INSIDE AND OUT WITH ASPHALTUM PAINT.
- TRAP TO INCLUDE CLEANOUT.
- GRATE TO BE STANDARD ADA GRATE BY URBAN ACCESSORIES 24" SQUARE OR APPROVED EQUAL.

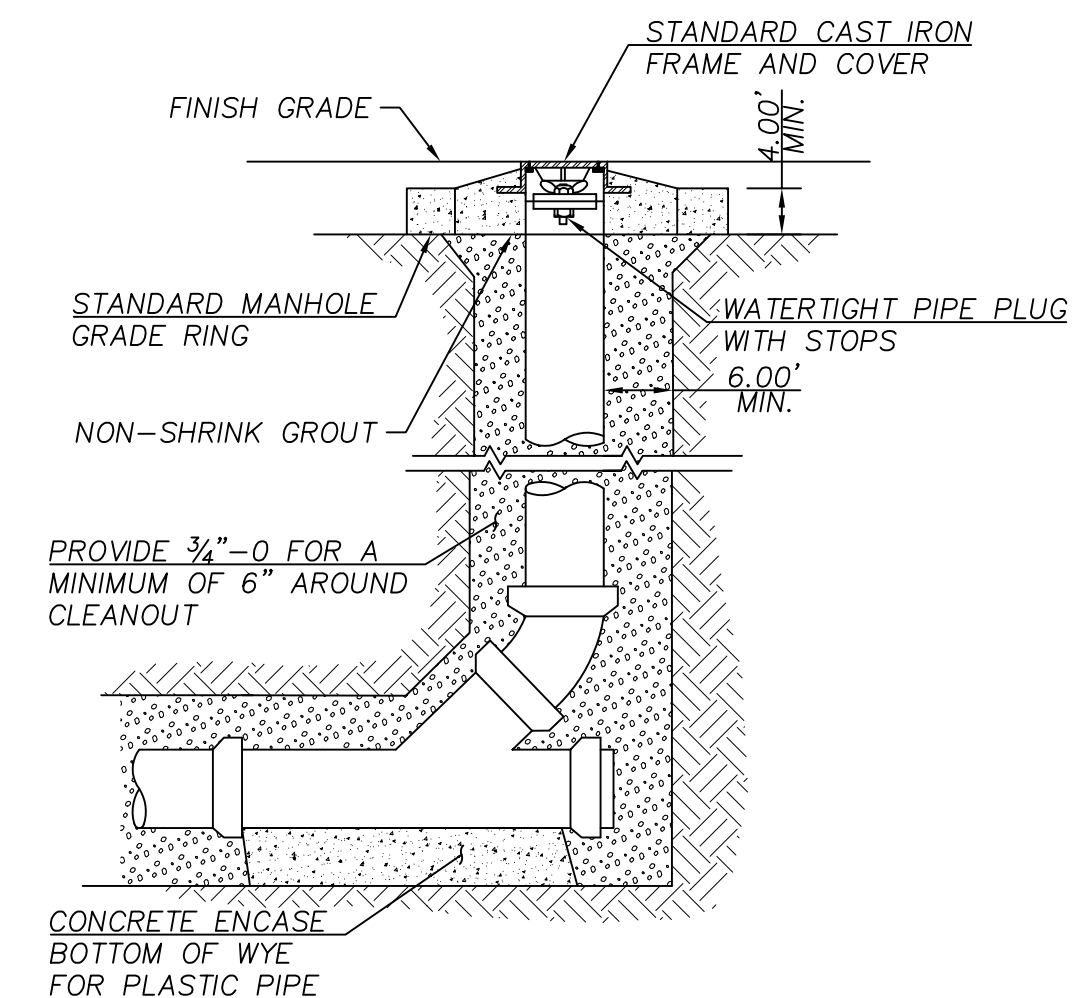
**4 TRAPPED CATCH BASIN**  
NTS



NOTES:

- ALL STEEL WELDED CONSTRUCTION.
- COATED INSIDE AND OUT WITH ASPHALTUM PAINT.
- TRAP TO INCLUDE CLEANOUT.
- GRATE TO BE OT TITLE 24 BY URBAN ACCESSORIES 12" SQUARE OR APPROVED EQUAL.

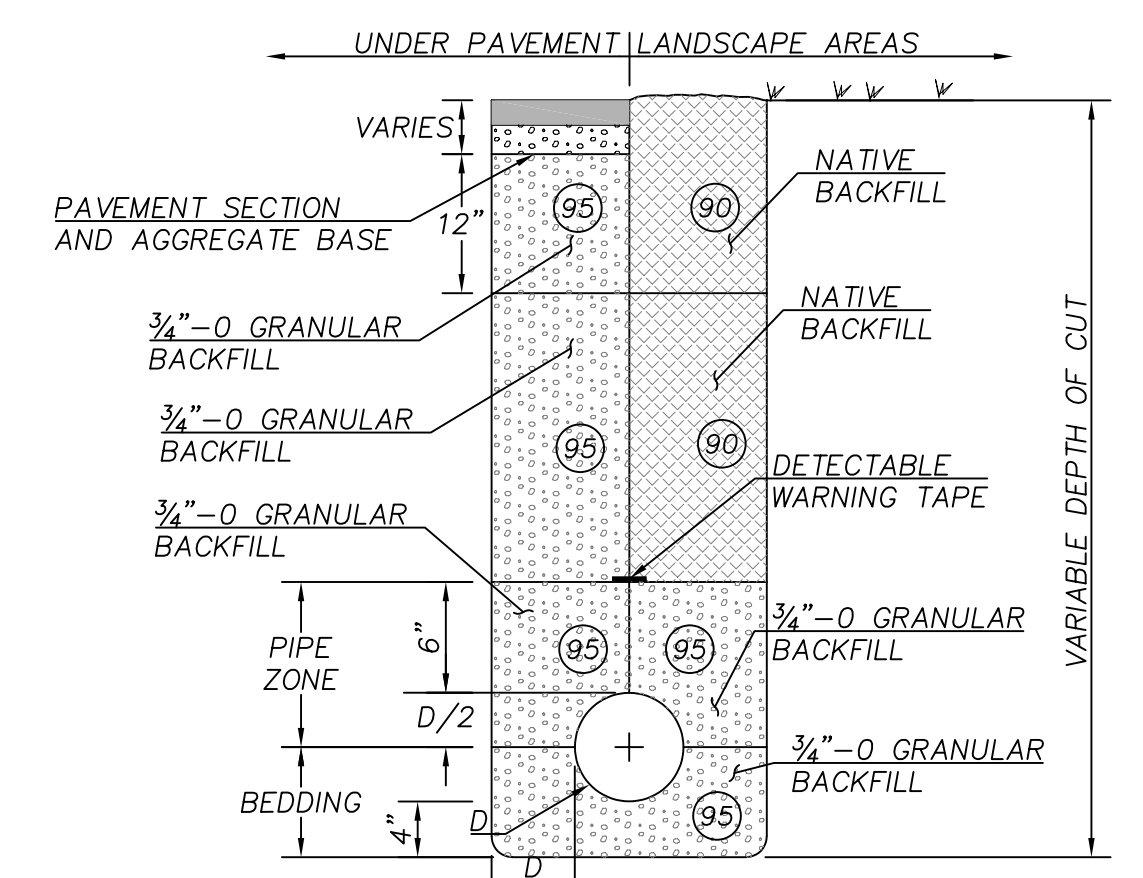
**3 TRAPPED AREA DRAIN**  
NTS



NOTE:

- CONCRETE ENCASE ENTIRE WYE SECTION AND 45° BEND FOR CONCRETE PIPE.

**2 CLEAN OUT**  
NTS



NOTES:

- ALL CUT EDGES SHALL BE SAND SEALED WITH CRS-1 OR CRS-2 EMULSIFIED ASPHALT OR EQUAL.
- THIS TRENCH BACKFILL REQUIREMENT APPLIES TO ALL UTILITIES.
- LIGHTLY COMPACT WITHIN TWO DIAMETERS OR 18 INCHES, WHICHEVER IS GREATER, ABOVE BREAKABLE CONDUITS.

**1 TRENCH BACKFILL**  
NTS

LUMINAIRE SCHEDULE						
TYPE	DESCRIPTION	MOUNTING	LAMP	BALLAST	MANUFACTURER AND MODEL NUMBER	INPUT WATTS
'A'	COMPACT FLOOD LIGHT, 41 DEGREE ANGLE, DARK BRONZE FINISH DIECAST ALUMINUM HOUSING, ANODIZED ALUMINUM OPTICS, UNIVERSAL MOUNTING BRACKET, STAINLESS HARDWARE, WET LOCATION RATED.	POLE	LED 1330 LUMENS 85CRI, 3000K	ELECTRONIC DRIVER 120/277V DIMMING 0-10V	BEGA LIGHTING: 77 682 OR APPROVED.	14
'B1'	14" WIDE, 4" HEIGHT RECESSED STEP LIGHTS, FINISHED TO BE DETERMINED, STAINLESS STEEL COVER PLATE WITH FROSTED GLASS DIFFUSER, TAMPER RESISTANT HARDWARE.	RECESSED STEP LIGHT	LED 1,323 LUMENS 80CRI, 3000K	ELECTRONIC DRIVER 120V	COLE LIGHTING: 1612 SERIES OR APPROVED.	20

NOTE:

- CONTRACTOR TO AIM POST TOP LUMINAIRE PERPENDICULAR TO SIDEWALK.
- MOUNTING BRACKETS FOR TYPE A LUMINAIRE ARE BY POLE MANUFACTURER.

ELECTRICAL SYMBOL LIST			
AF	FUSE		RECEPTACLE -- DUPLEX -- GFI UON
AS	SWITCH		RECEPTACLE -- FOUR-PLEX -- GFI UON
(D)	EXISTING TO BE REMOVED		SWITCH -- SINGLE-POLE, MOUNT 48" AFF, UON
(E)	EXISTING TO REMAIN		LIGHT FIXTURE -- SURFACE-MOUNTED
(R)	EXISTING TO RELOCATE		METERED SERVICE CABINET
D.B.	DIRECT BURIED		JUNCTION BOX -- IN-GRADE
E.N.I.C.	ELECTRIC NOT IN CONTRACT		JUNCTION BOX -- CEILING-MOUNTED
F	FLEX CONDUIT		METER BASE -- UTILITY COMPANY APPROVED
G	GROUND WIRE		OCCUPANCY SENSOR
GFI	GROUND FAULT INTERRUPTER		TRANSFORMER
GND	GROUND		MECHANICAL EQUIPMENT TAG NUMBER REFER TO MECHANICAL EQUIPMENT SCHEDULE
HP	HORSE POWER		EQUIPMENT TAG NUMBER, REFER TO MECHANICAL EQUIPMENT SCHEDULE "K" = KITCHEN, "C" = COMPUTER
IG	ISOLATED GROUND		NOTE SYMBOL, REFER TO NOTE AS INDICATED
MCA	MINIMUM CIRCUIT AMPS		FEEDER NUMBER, REFER TO "FEEDER SCHEDULE"
OP	OVERHEAD POWER		DETAIL HEADER
OT	OVERHEAD TELCO		SECTION IDENTIFIER
P	POLE		DETAIL IDENTIFIER
SCA	SHORT CIRCUIT AMPS SYMMETRICAL		HOME RUN. HASH MARKS INDICATE 2#12 WIRE UNLESS NOTED OTHERWISE
SPD	S-O CORD		CONDUCTORS IN CONDUIT, (2)#12 OR AS NOTED (QUANTITY AS INDICATED BY HASH MARKS)
S-O	SURGE PROTECTION DEVICE		GROUND WIRE
UP	UNDERGROUND POWER		GROUND CONNECTION
UT	UNDERGROUND TELCO		
W	WATTS		
WP	WEATHERPROOF		
---	CONDUIT -- BELOW GRADE		
---C---	CONDUIT -- COMMUNICATIONS		
---P---	CONDUIT -- PRIMARY POWER		
---S---	CONDUIT -- SECONDARY POWER		
---	CONDUIT -- CONCEALED		
---	CONDUIT -- EXPOSED		
~~~~~	CONDUIT -- FLEXIBLE		
---	CONDUIT -- STUB-DOWN		
---	CONDUIT -- STUB-OUT		
---	CONDUIT -- STUB-UP		

**GENERAL REQUIREMENTS**

- CONFORM TO CURRENT CODE INCLUDING OSSC, NEC, BUILDING CODE, AND LOCAL REQUIREMENTS.
- PROVIDE COMPLETE AND FUNCTIONAL ELECTRICAL SYSTEMS AS SPECIFIED, AS SHOWN ON DRAWINGS, AS REQUIRED, AND AS INTENDED.
- EQUIPMENT SHALL BE NEW AND OF LIKE MATERIALS THROUGH AUTHORIZED DISTRIBUTORS. PROVIDE EQUIPMENT OF SAME SYSTEM AND TYPE BY SAME MANUFACTURER. EQUIPMENT SHALL BE LISTED FOR ITS USE AND SHALL MEET OREGON LISTING REQUIREMENTS. REFER TO OAR 918-306-00 FOR MORE INFORMATION ON OREGON LISTING REQUIREMENTS.
- WARRANTY WORK, MATERIALS, AND EQUIPMENT FOR NOT LESS THAN ONE-YEAR. THIS REQUIREMENT SHALL NOT LIMIT, RESTRICT, OR OTHERWISE LESSEN ANY WARRANTY PROVIDED BY EQUIPMENT MANUFACTURER'S STANDARD WARRANTY IF GREATER THAN ONE-YEAR.
- PROVIDE SUBMITTALS FOR ELECTRICAL EQUIPMENT. PROVIDE STANDARD CUT-SHEETS CLEARLY INDICATING MODELS TO BE INSTALLED.
- GROUND SYSTEMS PER NEC ARTICLE 250, AS INDICATED, AND AS SHOWN.
- ALL ELECTRICAL WORK TO COMPLY WITH NFPA 70E ARC FLASH RULES, WHICH WILL INCLUDE AN ARC FLASH ANALYSIS AND ARC FLASH LABEL FOR THE CONTROLLER CABINET.
- UNLESS THE COUNTY DETERMINES IN ITS SOLE DISCRETION THAT A CONTRACTOR'S ATTENDANCE IS NOT NECESSARY, CONTRACTORS WILL BE REQUIRED TO ATTEND A PRE-TASK MEETING WITH THE PROJECT MANAGER AND ELECTRICAL SUPERVISOR OR DESIGNEE TO DISCUSS THE HAZARDS AND SAFE WORK PROCEDURES FOR ALL ELECTRICAL WORK TO BE PERFORMED ON THE PROJECT.
- ELECTRICAL WORK SHALL BE PERFORMED UNDER ELECTRICALLY SAFE WORK CONDITIONS WITH LOCK-OUT TAG-OUT PER NFPA 70E. KEEP POWER DISRUPTIONS TO A MINIMUM AND NOTIFY OWNER IN ADVANCE OF POWER DISRUPTIONS.
- CALL U-DIG 811 AT LEAST 2-BUSINESS DAYS BEFORE DIG OR TRENCH PER OAR 952-001-0010 THROUGH -0090. SCAN & MARK SUGGESTED ROUTING FOR UTILITIES & IRRIGATION PRIOR TO TRENCHING ACTIVITIES; DO NOT DISTURB UTILITIES OR PIPING, AVOID CONFLICTS. WHERE FEASIBLE, MARK THE ANTICIPATED ROUTE(S) WITH WHITE PAINT; THIS HELPS LOCATING PERSONNEL FIND THE RIGHT AREA AND LOCATE NEARBY FACILITIES AS ACCURATELY AS POSSIBLE.

lango.hansen

LANDSCAPE ARCHITECTS

1100 nw glisan #3b  
portland or 97209



RENEWAL DATE: 12/31/2022

08/24/24 11:07:00 AM

SHERWOOD FESTIVAL PLAZA

CITY OF SHERWOOD  
15527 SW Wilamette Street  
Sherwood, OR 97140

REVISIONS

SCALE AS SHOWN  
DRAWN BY R&W  
DATE 08.24.2022  
PROJECT NO. 2150

ISSUED FOR PERMIT

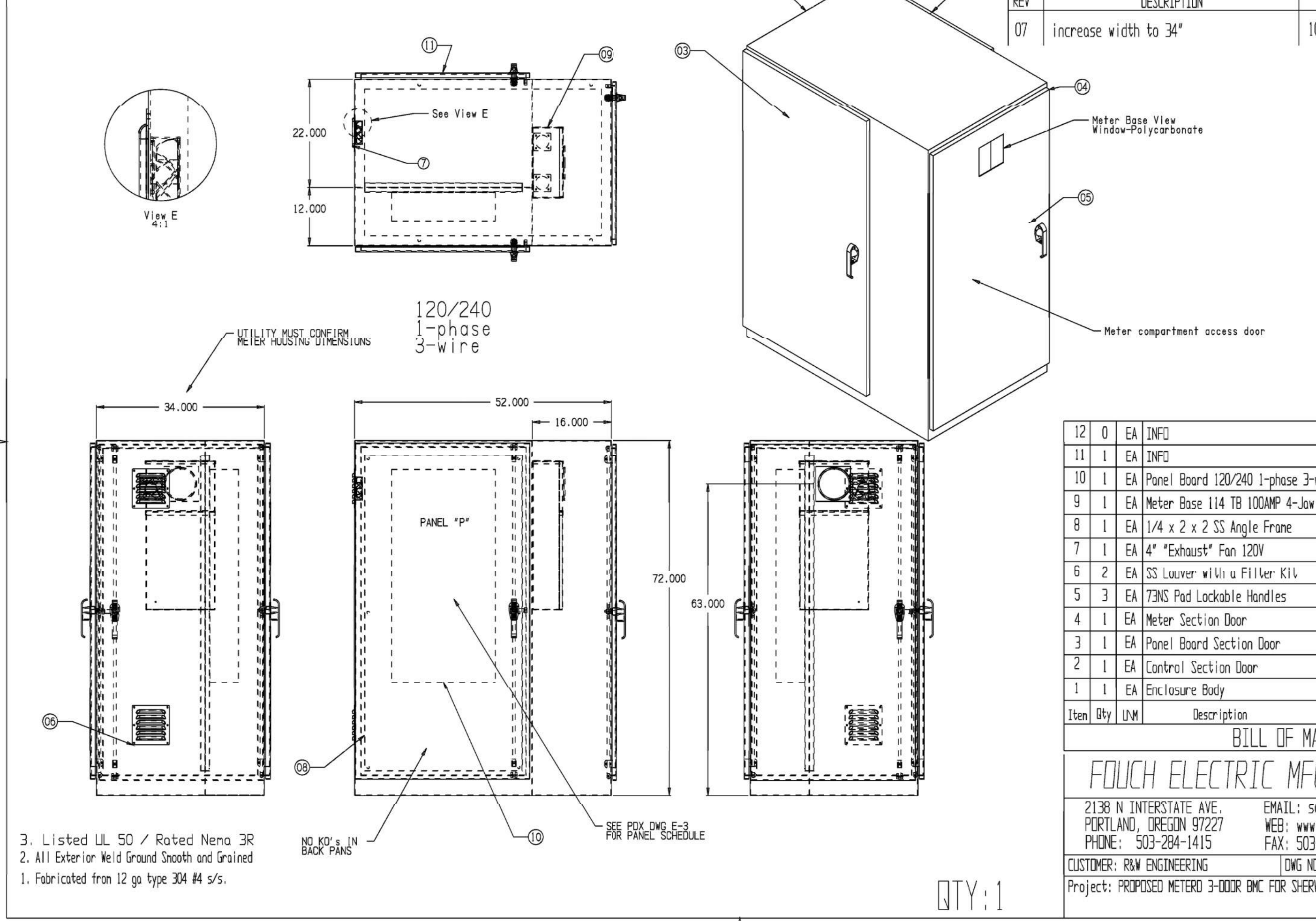
SHEET TITLE

**ELECTRICAL  
SYMBOL LEGEND  
AND SCHEDULES**

**E001**



FILE LOCATION: R / RW / PROPOSED METER 3-DOOR BMC FOR SHERWOOD  
 Layout: Assembly



REV	DESCRIPTION	DATE	APPROVED
07	increase width to 34"	10/30/2015	PDW

Item	Qty	UN	Description	Matl. Spec	INFO
12	0	EA	INFO		INFO
11	1	EA	INFO		MS
10	1	EA	Panel Board 120/240 1-phase 3-wire + Gnd		MS
9	1	EA	Meter Base 114 TB 100AMP 4-Jaw Safety Type		MS
8	1	EA	1/4 x 2 x 2 SS Angle Frame		SS
7	1	EA	4" "Exhaust" Fan 120V		MS
6	2	EA	SS Louver with a Filter Kit		SS
5	3	EA	73NS Pad Lockable Handles		SS
4	1	EA	Meter Section Door		12ga SS
3	1	EA	Panel Board Section Door		12ga SS
2	1	EA	Control Section Door		12ga SS
1	1	EA	Enclosure Body		12ga SS

**BILL OF MATERIALS**

**FOUCH ELECTRIC MFG. CO., INC.**

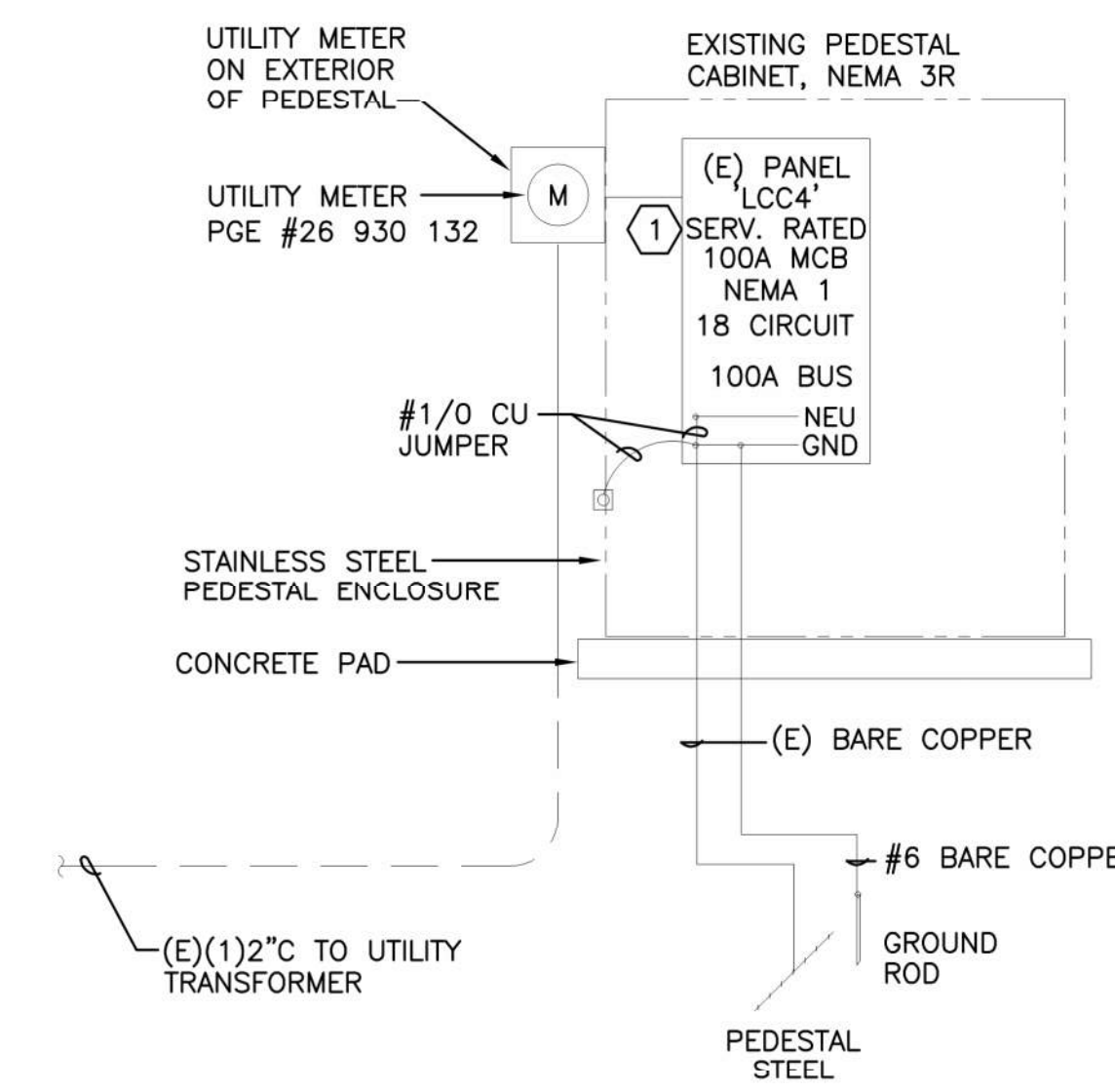
2138 N INTERSTATE AVE. PORTLAND, OREGON 97227  
 PHONE: 503-284-1415

EMAIL: sales@fouch.com  
 WEB: www.fouch.com  
 FAX: 503-284-0016

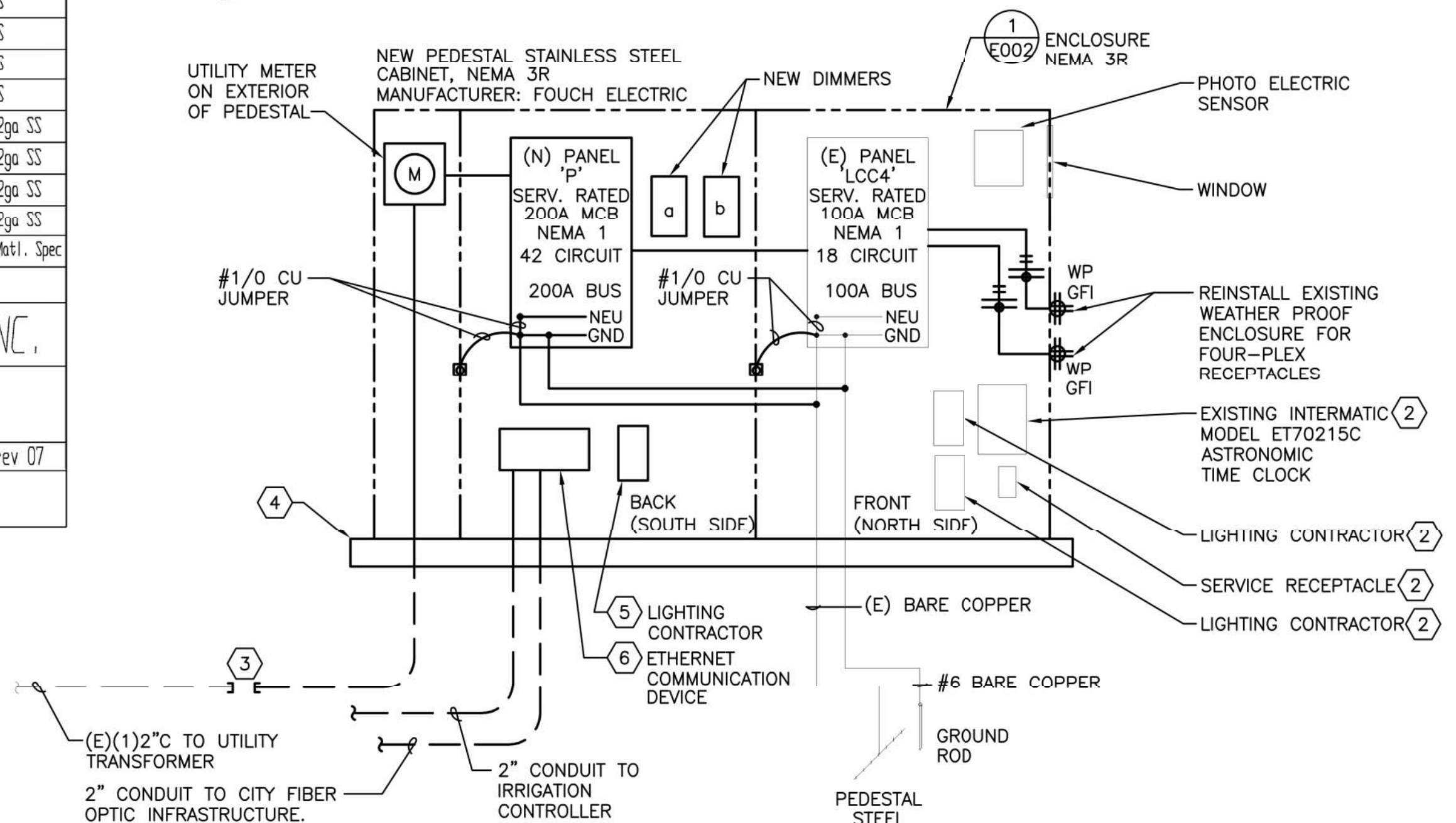
CUSTOMER: R&W ENGINEERING DWG NO. 0103-0200-00 rev 07  
 Project: PROPOSED METER 3-DOOR BMC FOR SHERWOOD

QTY: 1

**1 ELECTRICAL EQUIPMENT ENCLOSURE DETAIL**  
 E002 NOT TO SCALE



**2 EXISTING ELECTRICAL ONE-LINE DIAGRAM**  
 E002 NOT TO SCALE



**3 NEW ELECTRICAL ONE-LINE DIAGRAM**  
 E002 NOT TO SCALE

CKT NO.	CIRCUIT DESCRIPTION	CKT BRKR AMPS/POLES	LOAD TYPE	LOAD VOLT-AMPS	PHASE	LOAD VOLT-AMPS	LOAD TYPE	CKT BRKR AMPS/POLES	CIRCUIT DESCRIPTION	CKT NO.
1	(N) SPIDER BOX	30/2	R	2028	A	360	R	20/1	(N) RECEPTACLES - SPIDER BOX	2
3	(N) SPIDER BOX	30/2	R	2028	A	360	R	20/1	(N) RECEPTACLES - SPIDER BOX	4
5	(N) SPIDER BOX	30/2	R	2028	A	360	R	20/1	(N) RECEPTACLES - SPIDER BOX	6
7	(N) SPIDER BOX	30/2	R	2028	A	360	R	20/1	(N) RECEPTACLES - SPIDER BOX	8
9	(N) LIGHTING CONTROL	20/1	Z	200	A	180	R	20/1	(N) DED. RECEPTACLES - TREE WELL	10
11	(N) IRRIGATION CONTROLLER	20/1	Z	200	C	180	R	20/1	(N) DED. RECEPTACLES - TREE WELL	12
13	(N) POLE MOUNTED LIGHTS (a)	20/1	L	140	A	180	R	20/1	(N) DED. RECEPTACLES - TREE WELL	14
15	(N) POLE MOUNTED LIGHTS (b/c)	20/1	L	280	C	180	R	20/1	(N) DED. RECEPTACLES - TREE WELL	16
17	(N) STEP LIGHTS (d)	20/1	L	200	A	180	R	20/1	(N) RECEPTACLES - TREE WELL	18
19	(N) DED. RECEPTACLES - POLE	20/1	R	180	C	180	R	20/1	(N) RECEPTACLES - TREE WELL	20
21	(N) DED. RECEPTACLES - POLE	20/1	R	180	A	180	R	20/1	(N) RECEPTACLES - TREE WELL	22
23	(N) DED. RECEPTACLES - POLE	20/1	R	180	C	180	R	20/1	(N) RECEPTACLES - TREE WELL	24
25	(N) DED. RECEPTACLES - POLE	20/1	R	180	A	180	R	20/1	(N) RECEPTACLES - TREE WELL	26
27	(N) DED. RECEPTACLES - POLE	20/1	R	180	C	180	R	20/1	(N) RECEPTACLES - TREE WELL	28
29	(N) DED. RECEPTACLES - POLE	20/1	R	180	A	180	R	20/1	(N) RECEPTACLES - TREE WELL	30
31	(N) DED. RECEPTACLES - POLE	20/1	R	180	C	180	R	20/1	(N) SPARE	32
33	(N) DED. RECEPTACLES - POLE	20/1	R	180	A	180	R	20/1	(N) SPARE	34
35	(N) DED. RECEPTACLES - POLE	20/1	R	180	C	180	R	20/1	(N) SPARE	36
37	(N) DED. RECEPTACLES - POLE	20/1	R	180	A	180	R	20/1	(N) SPARE	38
39	PANEL LCC4	100/2		5280	C				(N) SPARE	40
41	-----	---		4580	A				(N) SPARE	42

LOAD PER PHASE (VA)	A=	11876	LIGHTING	620	125%	775
	B=		RECEPT.	13332	10K+50%	11666
	C=	12336	KITCHEN	0	65%	0
			MOTOR	0	100%	0
LOAD PER PHASE (AMPS)	A=	98.97	GENERAL	10260	100%	10260
	B=		HEAT	0	100%	0
	C=	102.80	LG MOTOR	0	125%	0
TOTAL LOAD (KVA)		24.21	TOTAL LOAD (KVA)			22.70
TOTAL AMPS		100.88	TOTAL AMPS			94.59

DATE: 24-Aug-22

CKT NO.	CIRCUIT DESCRIPTION	CKT BRKR AMPS/POLES	LOAD TYPE	LOAD VOLT-AMPS	PHASE	LOAD VOLT-AMPS	LOAD TYPE	CKT BRKR AMPS/POLES	CIRCUIT DESCRIPTION	CKT NO.
1	(E) 1ST ST. E. OF WA. ST. PED. LIGHTING	20/1	L	1500	A	720	R	20/1	(E) 1ST ST. E. OF WA. ST. HOLIDAY REC.	2
3	(E) 1ST ST. E. OF WA. ST. PED. LIGHTING	20/1	L	1500	C	720	R	20/1	(E) 1ST ST. E. OF WA. ST. HOLIDAY REC.	4
5	(E) 1ST ST. E. OF WA. ST. HOLIDAY REC.	20/1	R	720	A	720	R	20/1	(E) 1ST ST. E. OF WA. ST. HOLIDAY REC.	6
7	(E) 1ST ST. E. OF WA. ST. HOLIDAY REC.	20/1	R	720	C	720	R	20/1	(E) 1ST ST. E. OF WA. ST. HOLIDAY REC.	8
9	(E) TREE	20/1	K	720	A	180	R	20/1	(E) LCC4 MAINI. GFCI RECEPTACLE	10
11	(E) TREE	20/1	R	720	C	200	Z	20/1	(E) LCC4 LIGHTING CONTROL	12
13	(E) SPACE				A	720	R	20/1	(E) TREE	14
15	(E) SPACE				C				(E) SPACE	16
17	(E) SPACE				A				(E) SPACE	18

LOAD PER PHASE (VA)	A=	5280	LIGHTING	3000	125%	3750
	B=		RECEPT.	6660	10K+50%	6660
	C=	4580	KITCHEN	0	65%	0
			MOTOR	0	100%	0
LOAD PER PHASE (AMPS)	A=	44.00	GENERAL	200	100%	200
	B=		HEAT	0	100%	0
	C=	38.17	LG MOTOR	0	125%	0
TOTAL LOAD (KVA)		9.86	TOTAL LOAD (KVA)			10.61
TOTAL AMPS		41.08	TOTAL AMPS			44.21

DATE: 29-Jul-22

**lango.hansen**  
 LANDSCAPE ARCHITECTS  
 1100 nw glisan #3b  
 portland or 97209

REGISTERED PROFESSIONAL ENGINEER  
 88445PE  
 NOV 12 2015  
 OREGON  
 JONATHAN PATRICK KELLY  
 RENEWAL DATE: 12/31/2022

**SHERWOOD FESTIVAL PLAZA**  
 CITY OF SHERWOOD  
 15527 SW Willamette Street  
 Sherwood, OR 97140

REVISIONS

SCALE: AS SHOWN  
 DRAWN BY: R&W  
 DATE: 08.24.2022  
 PROJECT NO.: 2150

ISSUED FOR PERMIT

SHEET TITLE:  
**ELECTRICAL ONE-LINE DIAGRAM AND SCHEDULES**

**E002**

**R&W ENGINEERING, INC.**  
 9615 S.W. Allen Boulevard  
 Suite 107  
 Beaverton, Oregon 97005  
 Phone: (503) 726-3117  
 Office: (503) 292-6000  
 E-mail: rwen@rwen.com  
 Project No.: 816.003.001 Contact: DENNIS HALL

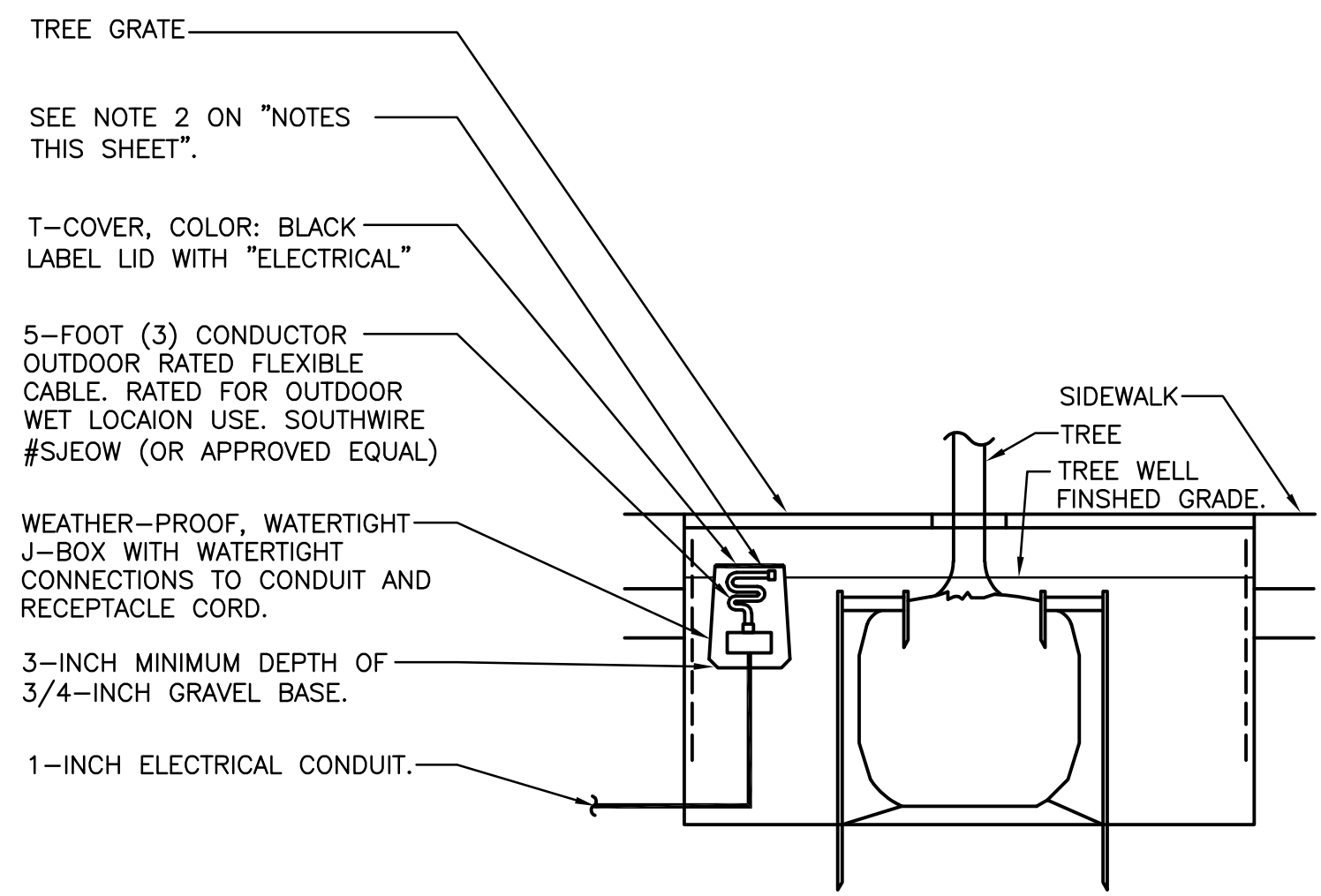
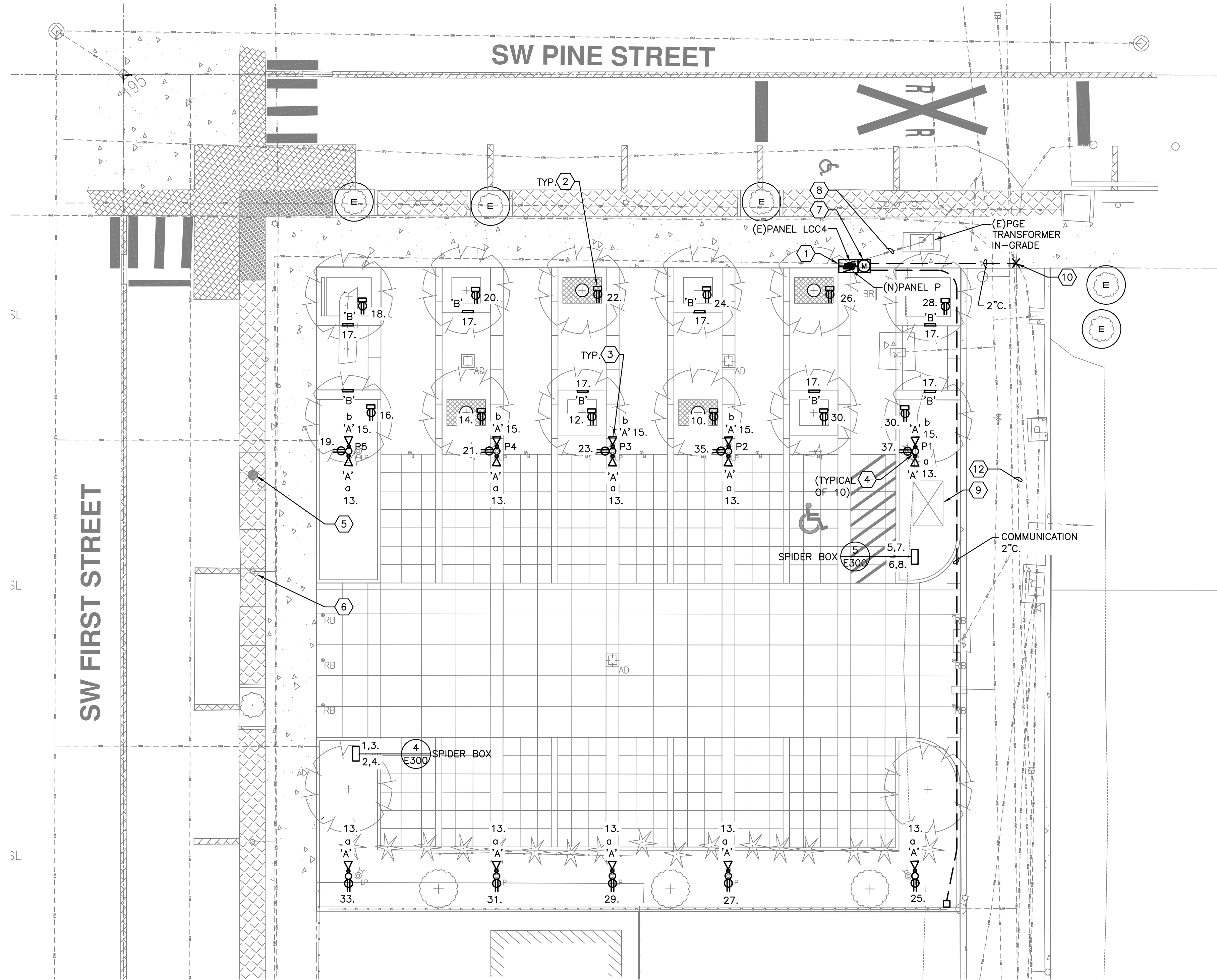


**GENERAL NOTES**

- A. SEE DRAWING E001 FOR SYMBOL LEGEND AND LUMINAIRE SCHEDULE.
- B. ALL CIRCUIT NUMBERS ADJACENT TO DEVICE OR LUMINAIRE IS CONNECTED TO NEW PANEL 'P'.
- C. ALL LOW CASE LETTERS ADJACENT TO LUMINAIRES INDICATED CONTROL DESIGNATION. SEE DETAIL 1/E001 FOR LOCATION OF DIMMERS. SEE DETAIL 5/E300 FOR LIGHTING CONTROL LOCATED IN SERVICE CABINET.
- D. SEE DETAIL 3/E300 FOR TRENCHING REQUIREMENTS.
- E. SEE DRAWING E200 FOR SITE PLAN PHOTOMETRIC WITH PLAZA AND PARKING.

**NOTES THIS SHEET**

- 1 EXISTING ELECTRICAL SERVICE CABINET. SEE DETAIL 1/E002 FOR MORE INFORMATION. SEE 3/E002 FOR NEW ELECTRICAL ONE-LINE AND CABINET.
- 2 SEE DETAIL 2/E100 FOR MORE INFORMATION. INSTALL WATERTIGHT STRAIGHT BLADE CONNECTOR WITH SAFETY SHROUD UNDER TREEWELL GRATE. HUBBELL #HBL 15-20. COLOR: BLACK (OR APPROVED EQUAL). RECEPTACLE TO HAVE WEATHER-PROOF COVER AND WEATHER-PROOF JUNCTION BOX ATTACHED TO A 1-INCH PIPE POST MOUNTED 1-INCH ABOVE GROUND IN TREEWELL AREA. CONNECT 5-FOOT - (3) CONDUCTOR, OUTDOOR RATED FLEXIBLE CABLE. RATED FOR OUTDOOR, WET LOCATION USE.
- 3 ALL RECEPTACLES TO BE GFI IN A WEATHER-PROOF ENCLOSURE.
- 4 OWNER PROVIDED POLE WITH LIGHT, RECEPTACLE AND PROVISIONS FOR CANOPY FABRIC SAILS. MANUFACTURER: SHADE SYSTEMS. LUMINAIRES MOUNTED AT 20 FEET ABOVE FINISHED GRADE. RECEPTACLE MOUNTED 18" ABOVE FINISHED GRADE. CONTRACTOR TO INSTALL POLE FOOTING PER PER MANUFACTURER REQUIREMENTS.
- 5 LOCATION OF RELOCATED LIGHT POLE.
- 6 RELOCATE LIGHT POLE 15- FEET NORTH. SEE DRAWING E201 FOR PHOTOMETRIC WITH RELOCATED LUMINAIRE. REMOVE CONDUCTORS BACK TO SOURCE. EXTEND CONDUIT TO EXISTING POLE'S NEW LOCATION. INSTALL NEW CONDUCTORS FOR RELOCATED LIGHT POLE. VERIFY WIRE SIZE PRIOR TO BID. STREET LIGHTING BRANCH CIRCUIT TO REMAIN OPERATIONAL AT ALL TIMES FROM DUSK TO DAWN. SEE CIVIL DRAWINGS FOR CONCRETE REMOVAL AND INSTALLATION AROUND LIGHT POLE.
- 7 ENCLOSE METER IN CABINET WITH WINDOW.
- 8 EXTEND SECONDARY CONDUIT TO NEW METER BASE. UTILITY TO PROVIDE AND TERMINATE NEW SECONDARY CONDUCTORS.
- 9 PGE VAULT.
- 10 PROVIDE 2" CONDUIT AND INTERCEPT EXISTING FIBER INFRASTRUCTURE IN ALLEY. COORDINATE WITH CITY FOR THE EXACT LOCATION AND TERMINATION OF FIBER OPTIC CABLE. CONTRACTOR TO PROVIDE FIBER OPTIC CABLE PER CITY OF SHERWOOD STANDARDS AND CITY OF SHERWOOD LOW VOLTAGE REPRESENTATIVE.
- 11 STUB-UP CONDUIT WITH PULL STRING IN IRRIGATION CONTROLLER AND SERVICE CABINET.
- 12 EXISTING CITY FIBER OPTIC INFRASTRUCTURE.



**1 SITE PLAN - ELECTRICAL**  
SCALE: 1" = 10'-0"  
Scale: 1" = 10'

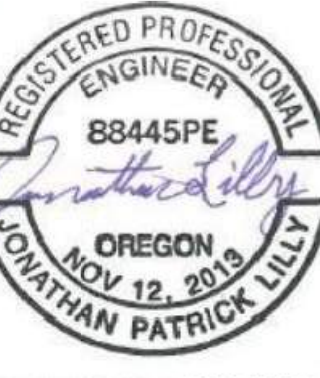
**2 TREEWELL MOUNTED RECEPTACLE DETAIL**  
NOT TO SCALE

PHOTOMETRIC ANALYSIS SUMMARY TABLE								
STATISTICS		DESIGN VALUES				TARGET VALUES		
DESCRIPTION	CLASSIFICATION	SYMBOL	AVG	MAX	MIN	AVG/MIN	AVG (±)	AVG/MIN (±)
PARKING LIGHTING	COMMERCIAL	+	1.1 fc	19.5 fc	0.2 fc	5.5:1	1.0	10.0:1

lango.hansen

LANDSCAPE ARCHITECTS

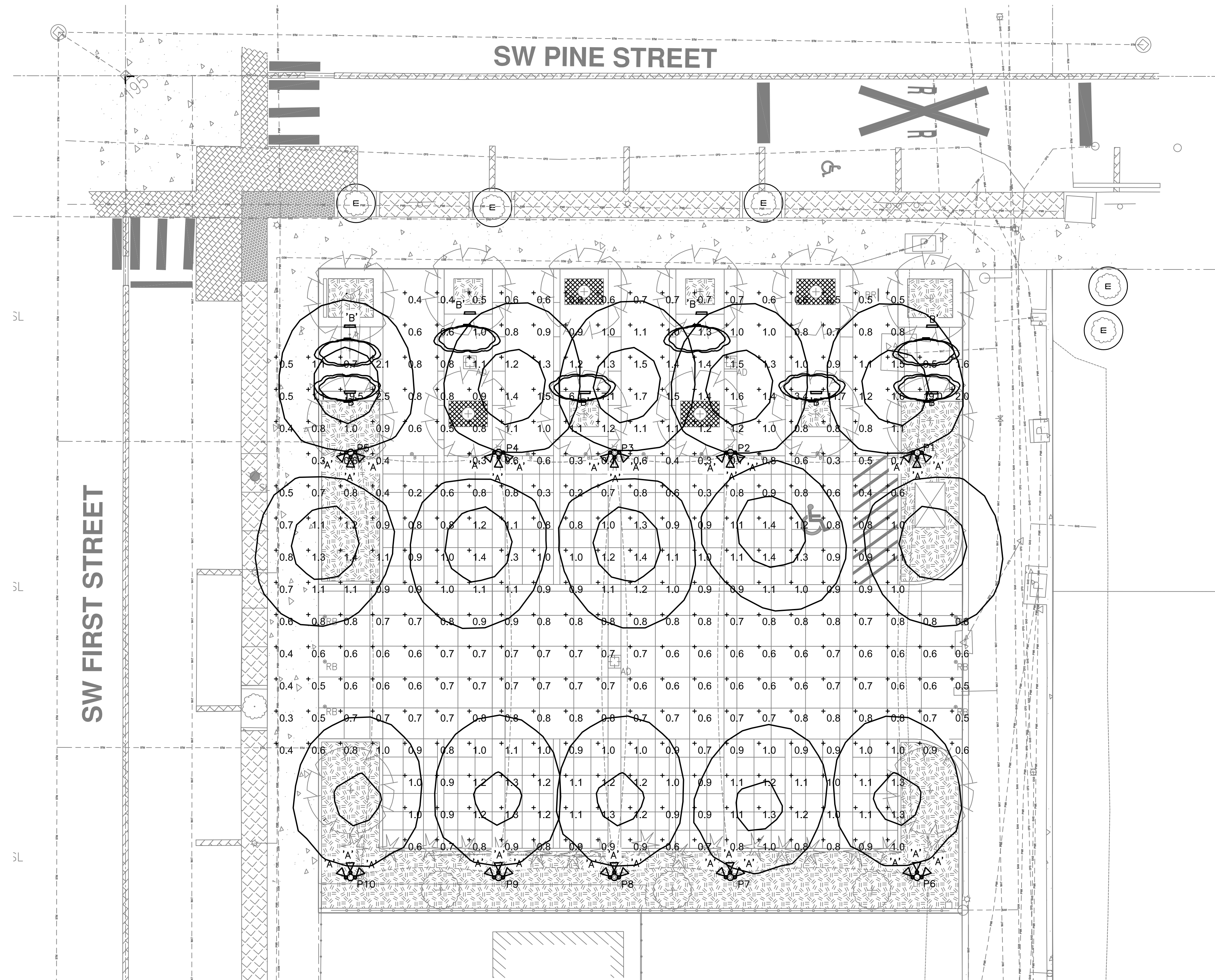
1100 nw glison #3b  
portland or 97209



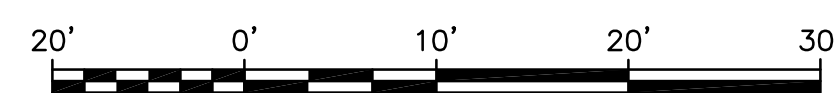
RENEWAL DATE: 12/31/2022

**GENERAL NOTES**

- A. SEE DRAWING E0.1 FOR SYMBOL LEGEND, DETAILS AND LUMINAIRE SCHEDULE.
- B. FOOT CANDLE ISO CURVES ARE SHOWN AS A SINGLE FIXTURE CONTRIBUTION WITH SET VALUES. THE ISO CURVE VALUES MAY NOT MATCH THE CALCULATION PLANE POINT VALUES, SINCE THE CALCULATION PLANE CAN BE A CONTRIBUTION FROM MORE THAN ONE LUMINAIRE.
- C. EXISTING STREET LIGHTING, ARM MOUNTED LUMINAIRE DOES NOT CONTRIBUTE TO ILLUMINATION CALCULATIONS.
- D. PHOTOMETRIC INDICATES ALL TYPE 'A' LUMINAIRE ON POLES TURNED ON FOR EVENT. LUMINAIRES CAN BE ADJUSTED AND DIMMED. ALL FLOODS AIMED AT 45 DEGREES DOWN FROM HORIZONTAL.



**1 SITE PLAN - PHOTOMETRIC**  
E200 SCALE: 1" = 10'-0"



Scale: 1" = 10'

SHERWOOD FESTIVAL PLAZA

CITY OF SHERWOOD  
15527 SW Wilamette Street  
Sherwood, OR 97140

REVISIONS

SCALE AS SHOWN  
DRAWN BY R&W  
DATE 08.24.2022  
PROJECT NO. 2150

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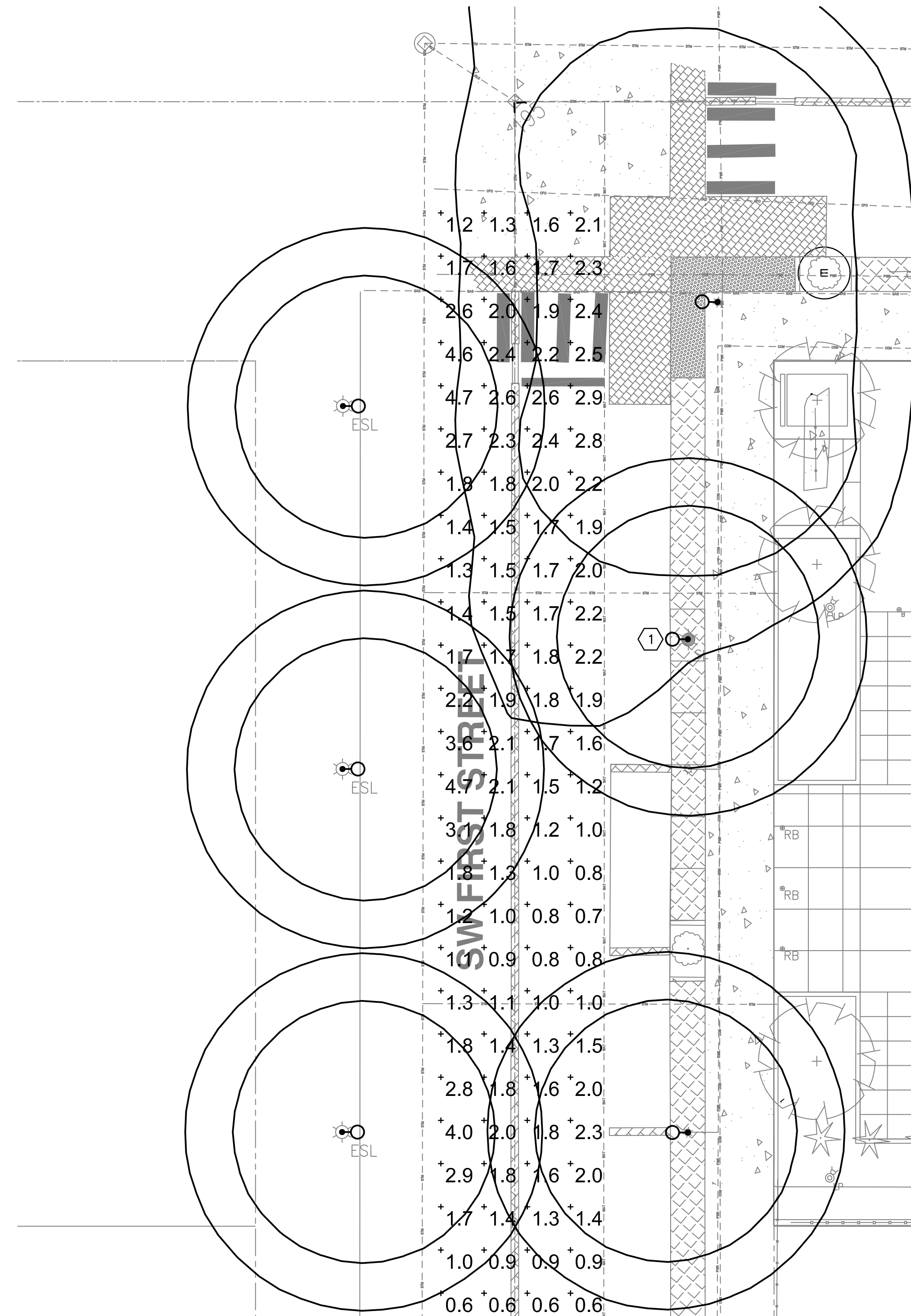
SHEET TITLE

SITE PLAN -  
PHOTOMETRIC

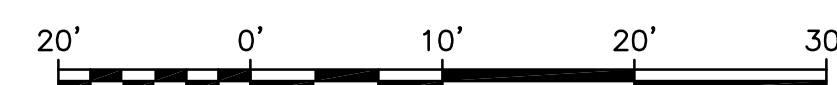
E200

**R&W** ENGINEERING, INC.  
9615 S.W. Allen Boulevard  
Suite 107  
Beaverton, Oregon 97005  
Phone: (503) 726-3317  
Office: (503) 292-6000  
E-mail: rwen@rwen.com  
Project No.: 816.003.001 Contact: DENNIS HALL

PHOTOMETRIC ANALYSIS SUMMARY TABLE								
STATISTICS		DESIGN VALUES					TARGET VALUES	
DESCRIPTION	CLASSIFICATION	SYMBOL	AVG	MAX	MIN	AVG/MIN	AVG (±)	AVG/MIN (S)
STREET LIGHTING	COLLECTOR	+	1.8 fc	4.7 fc	0.6 fc	3.0:1	1.2	4.0:1



**1** EXISTING STREET LIGHTING - PHOTOMETRIC  
 E201 SCALE: 1" = 10'-0"



Scale: 1" = 10'

**GENERAL NOTES**

- A. SEE DRAWING E0.1 FOR SYMBOL LEGEND, DETAILS AND LUMINAIRE SCHEDULE.
- B. FOOT CANDLE ISO CURVES ARE SHOWN AS A SINGLE FIXTURE CONTRIBUTION WITH SET VALUES. THE ISO CURVE VALUES MAY NOT MATCH THE CALCULATION PLANE POINT VALUES, SINCE THE CALCULATION PLANE CAN BE A CONTRIBUTION FROM MORE THAN ONE LUMINAIRE.
- C. EXISTING STREET LIGHTING, ARM MOUNTED LUMINAIRE PHOTOMETRIC SHOWN. LUMINAIRE IS LUMEC: DMS50-85QL-SCB5-120-SMB-BE6TX-RAL5001, ARM: M202M-BE6TX-RAL5001, POLE: SPR50-BE6TX-RAL5001, LAMP: PHILIPS LIGHTING 85W QL (3000k)

**NOTES THIS SHEET**

- 1 NEW LOCATION OF LIGHT POLE TO BE RELOCATED. LIGHT POLE MOVED 15- FEET NORTH. SEE DRAWING E100 FOR MORE INFORMATION.

lango.hansen

LANDSCAPE ARCHITECTS

1100 nw glisan #3b  
 portland or 97209



RENEWAL DATE: 12/31/2022

SHERWOOD FESTIVAL PLAZA

CITY OF SHERWOOD  
 15527 SW Wilamette Street  
 Sherwood, OR 97140

REVISIONS

SCALE AS SHOWN  
 DRAWN BY R&W  
 DATE 08.24.2022  
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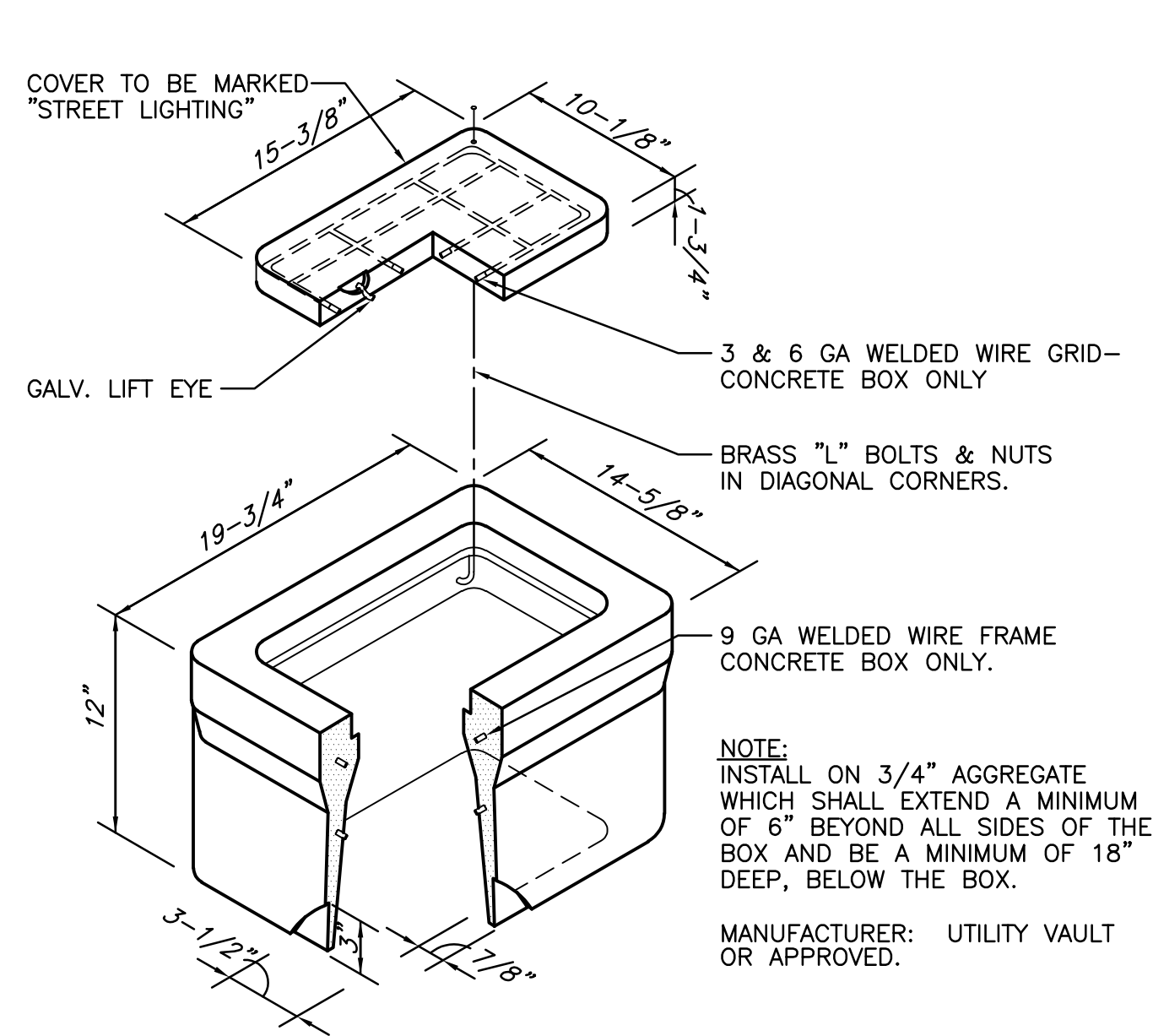
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SHEET TITLE

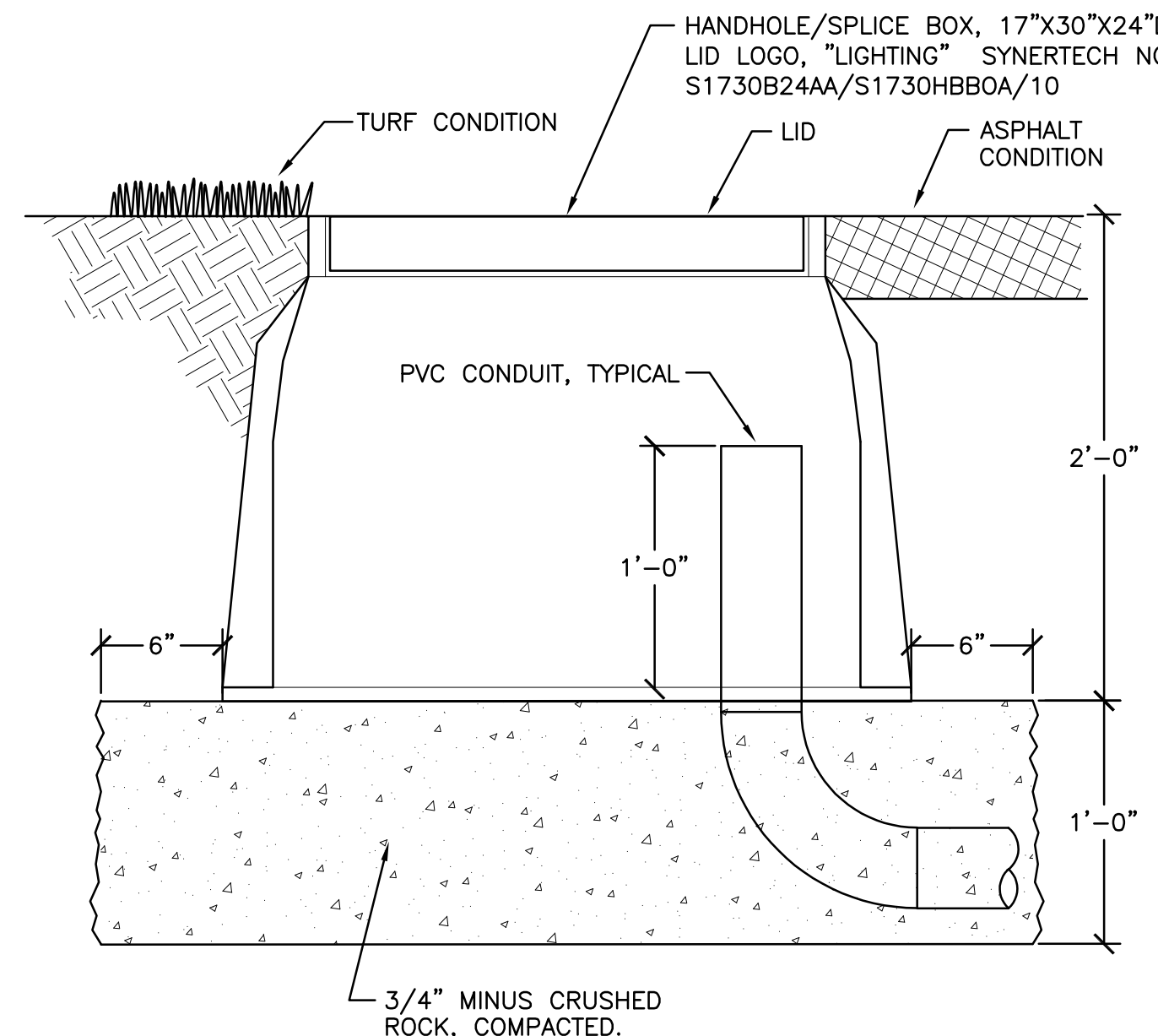
STREET LIGHTING -  
 PHOTOMETRIC

E201

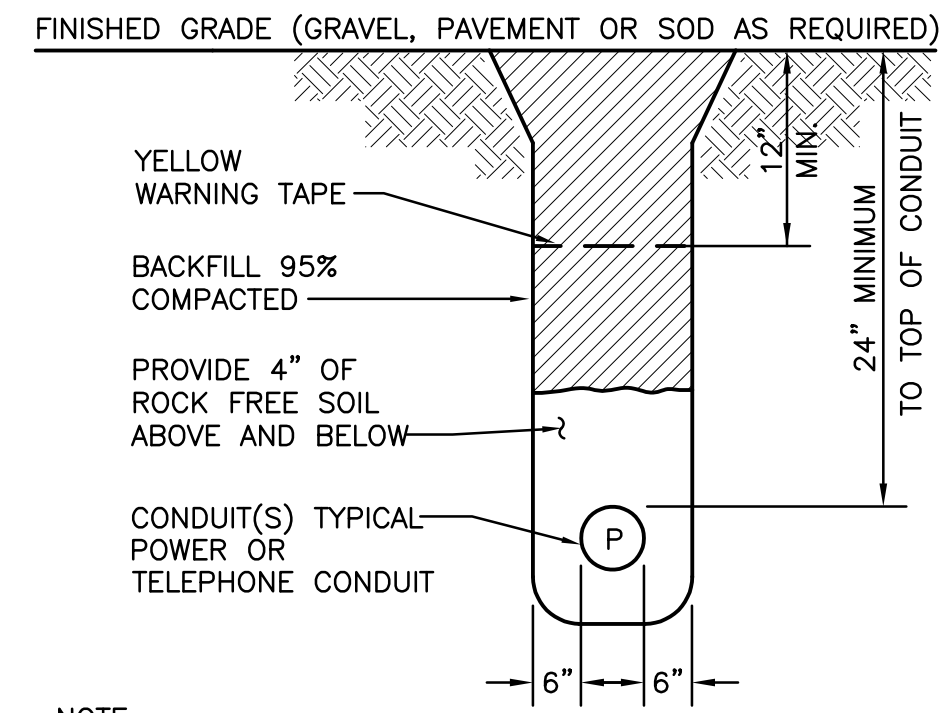
**R&W** ENGINEERING, INC.  
 9615 S.W. Allen Boulevard  
 Suite 107  
 Beaverton, Oregon 97005  
 Phone: (503) 726-3317  
 Office: (503) 292-6000  
 E-mail: [rweng@rweng.com](mailto:rweng@rweng.com)  
 Project No.: 816.003.001 Contact: DENNIS HALL



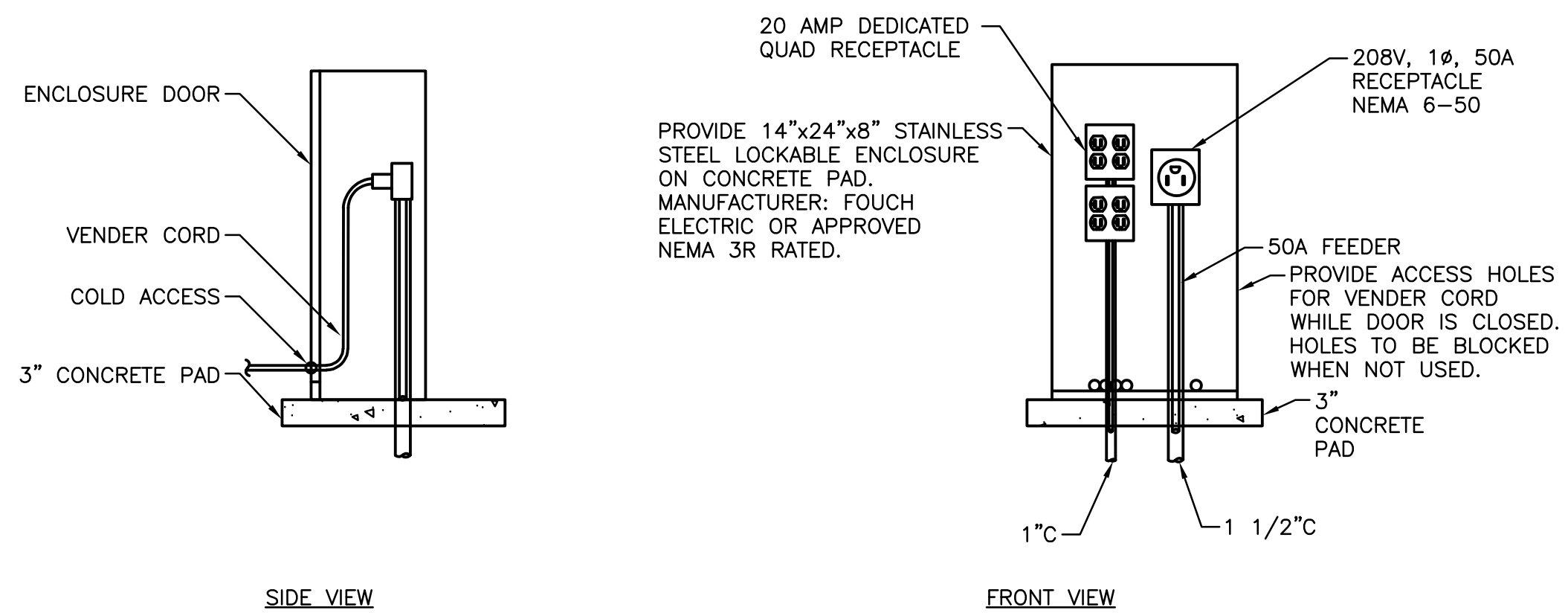
**1 PULL BOX DETAIL**  
E300 NOT TO SCALE



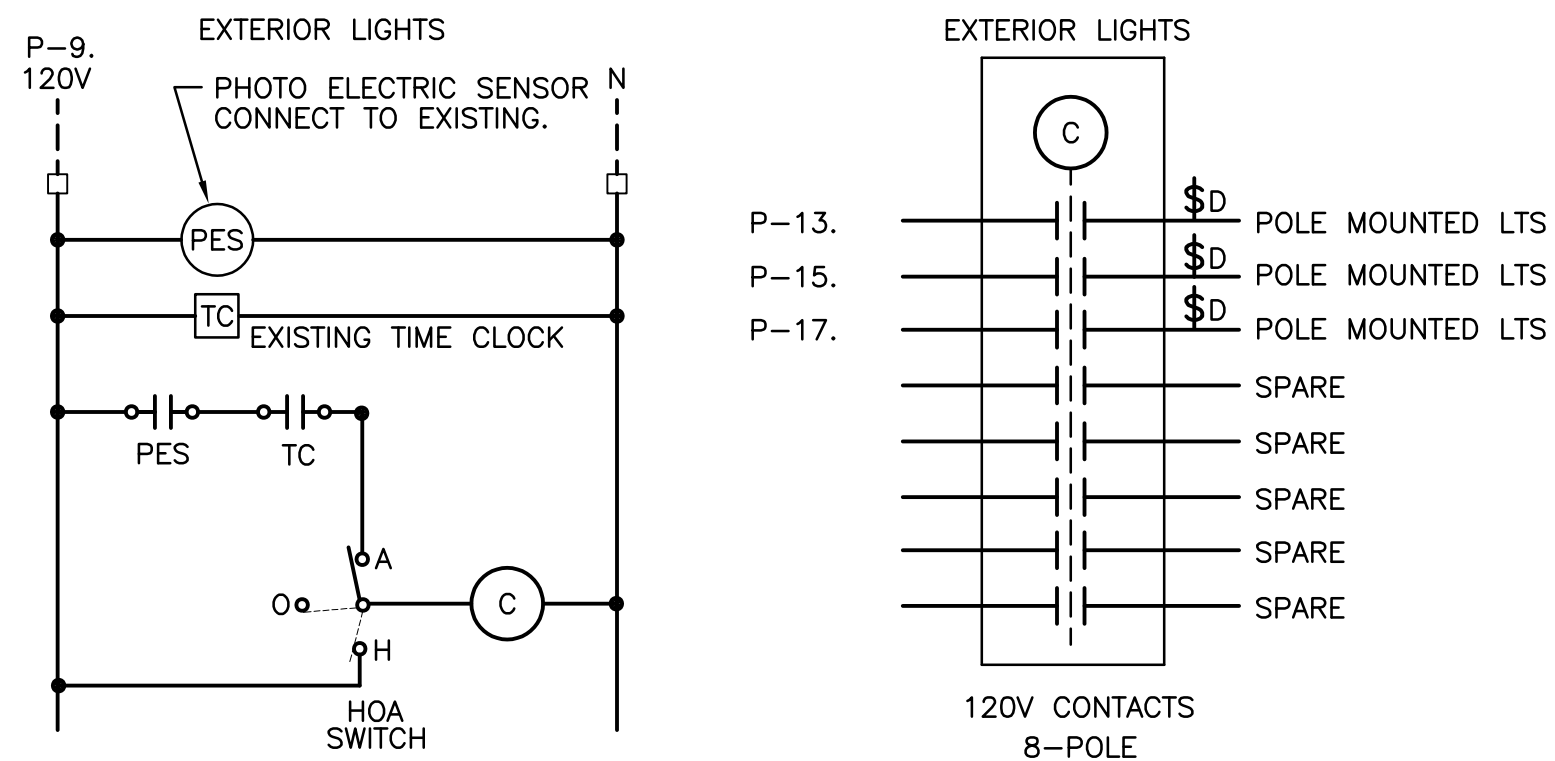
**2 FLUSH HANDHOLE/SPLICE BOX**  
E300 SCALE: NONE



**3 POWER CONDUIT TRENCH DETAIL**  
E300 SCALE: NTS



**5 SPIDER BOX DETAIL**  
E300 SCALE: NONE



**6 LIGHTING CONTROL DIAGRAM**  
E300 NO SCALE

**GENERAL NOTES**

- A. SEE DRAWING E001 FOR SYMBOL LEGEND, AND LUMINAIRE SCHEDULE.
- B. ALL SPLICES IN UNDERGROUND BOXES OR DIRECT BURIED SHALL BE INSULATED AND WATERPROOFED, USING SCOTCHCAST EPOXY SPLICING COMPOUNDS SUITED FOR THE PURPOSE.

lango.hansen

LANDSCAPE ARCHITECTS

1100 nw glison #3b  
portland or 97209



SHERWOOD FESTIVAL PLAZA

CITY OF SHERWOOD  
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SCALE AS SHOWN  
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SHEET TITLE

ELECTRICAL  
DETAILS

E300

