

k:\Projects\0723-snohomish county meadowdale park\construction plans\0723-PL-Utility Planning 46a CU-5

Oct 25, 2023 4:28pm chiewett

REVISIONS					DESCRIPTION
REV	DATE	BY	APP'D	MR	
1	10-25-23	CH	MR		RECORD DRAWINGS

DESIGNED BY: PH
DRAWN BY: CH/TG
CHECKED BY: DR
APPROVED BY: PH
SCALE: AS NOTED
DATE: OCTOBER 2023

Feb 16, 2023 5:50pm \$GETVAR(?) C:\Users\Laura\Desktop\Meadowdale\Picnic Shelter\Drawings\60% Permit\A-1 General.dwg A-1.0

GENERAL NOTES

1. ALL WORK SHALL BE IN CONFORMANCE WITH APPLICABLE CODES AND LOCAL BUILDING REQUIREMENTS, INCLUDING BUT NOT LIMITED TO THE 2018 EDITION OF THE IBC AND THE 2018 INTERNATIONAL ENERGY CONSERVATION CODE AS ADOPTED BY WA STATE.
2. ALL APPLICABLE CODES, ORDINANCES AND MINIMUM STRUCTURAL REQUIREMENTS TAKE PRECEDENCE OVER DRAWINGS AND NOTES.
3. CONTRACTOR SHALL VERIFY ALL DIMENSIONS SHOWN ON THE DRAWINGS BEFORE COMMENCING WITH WORK. ANY DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE OWNER AND ARCHITECT PRIOR TO STARTING ANY CONSTRUCTION OF THE AREA CONCERNED. DO NOT SCALE DRAWINGS
4. DIMENSIONS ARE TO FACE OF FRAMING OR CONCRETE U.O.N.
5. PARTITIONS AND WALLS NOT OTHERWISE DIMENSIONED SHALL BE LOCATED FLUSH WITH REFERENCE TO ADJACENT WALL FACE.
6. WHERE ON ANY OF THE DRAWINGS OR DETAILS, A PORTION OF THE WORK IS SHOWN AND/OR DETAILED, AND THE REMAINDER IS INDICATED IN OUTLINE, THE PARTS SHOWN AND/OR DETAILED SHALL APPLY TO ALL OTHER LIKE PORTIONS OF THE WORK.
7. CONTRACTOR TO ASSUME ALL MATERIALS AS NEW UNLESS NOTED AS "EXISTING".
8. PRESSURE TREAT ALL WOOD IN CONTACT WITH CONCRETE.
9. CONTRACTOR TO VERIFY LOCATION OF ALL EXISTING UTILITIES THROUGHOUT SITE PRIOR TO EXCAVATION.
10. BACKPRIME ALL EXTERIOR WOOD TRIM MATERIAL WHERE PAINTED, SEALER OR OTHER SCHEDULED FINISH WHERE NOT PAINTED (ALL SIDES, EDGES AND CUT ENDS) PER WWPA AND WRCLA GUIDELINES.
11. WEATHER RESISTIVE BARRIER TO HAVE OVERLAP AS DIRECTED BY MFG.
12. WEATHER RESISTIVE BARRIER TO BE INSTALLED OVER TOP PLATE PRIOR TO SETTING OF RAFTERS OR ROOF TRUSSES, S.S. FASTENERS WHEN IN CONTACT WITH PT WOOD.
13. STAINLESS STEEL NAILS OR FASTENERS TO USED AT ALL APPLICATIONS WHERE NAILS OR FASTENERS ARE EXPOSED TO EXTERIOR.

SCOPE OF WORK

CONSTRUCTION OF NEW PICNIC SHELTER

CODE COMPLIANCE

- 2018 INTERNATIONAL BUILDING CODE (IBC) W/ WA STATE AMENDMENTS
- ICC A117.1-2009 ACCESSIBLE AND USABLE BUILDING FACILITIES
- 2018 WASHINGTON STATE ENERGY CODE (WSEC) (2018 INTERNATIONAL ENERGY CONSERVATION CODE W/ WA STATE AMENDMENTS)
- 2018 INTERNATIONAL FIRE CODE (IFC)
- 2020 NATIONAL ELECTRICAL CODE (NEC)
- 2018 INTERNATIONAL MECHANICAL CODE (IMC)
- 2018 UNIFORM PLUMBING CODE (UPC)

FIRE RESISTANCE RATING

STRUCTURAL FRAME	NON-RATED
BEARING WALLS, EXT.	NON-RATED
BEARING WALLS, INT.	NON-RATED
NONBEARING WALLS, EXT.	NON-RATED
NONBEARING WALLS, INT.	NON-RATED
FLOOR CONSTRUCTION	NON-RATED
ROOF CONSTRUCTION	NON-RATED

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RECORD DRAWINGS
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ONE INCH
AT FULL SIZE, IF NOT ONE INCH SCALE ACCORDINGLY



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DESIGNED BY: SALT STUDIO
DRAWN BY: LH
CHECKED BY: LH
APPROVED BY: LH
SCALE: AS NOTED
DATE: FEBRUARY 2023

MEADOWDALE BEACH PARK
AND ESTUARY DESIGN
19-103913LDA

ARCHITECTURE GENERAL INFORMATION

A-1.2

SHEET NO. 1 OF 16

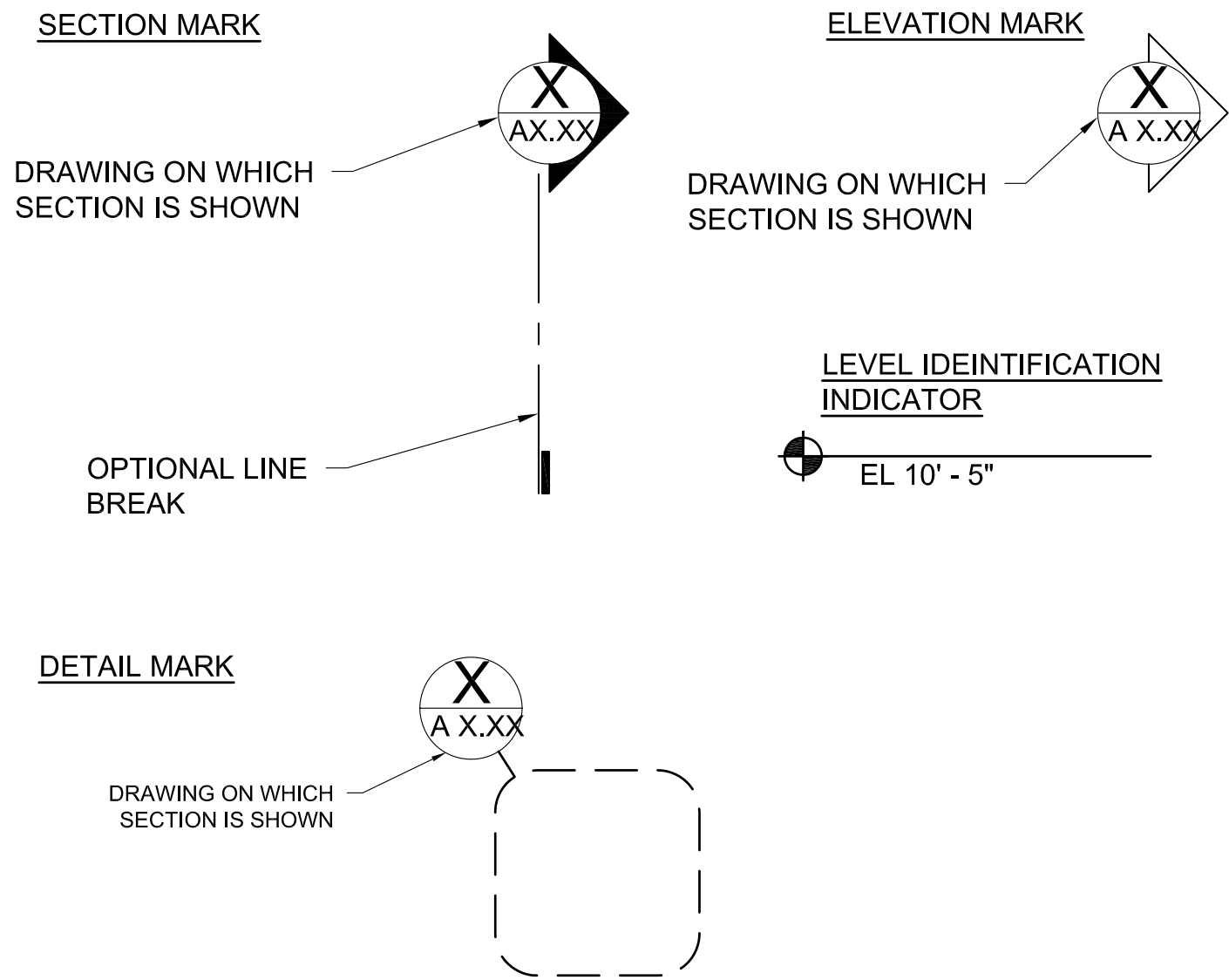
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SYMBOLS

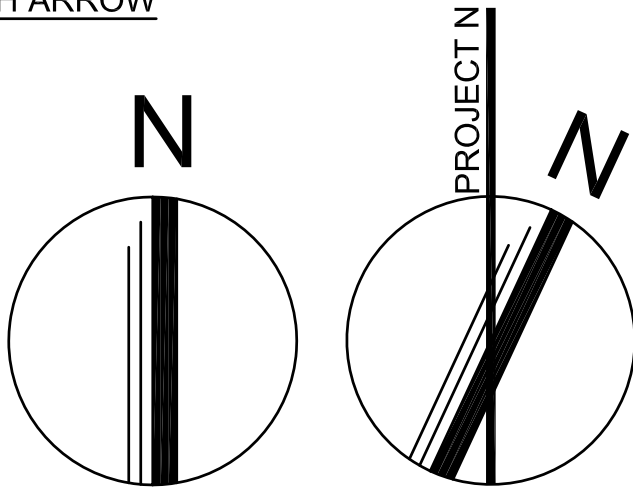
	GRIDLINE MARK
	DOOR IDENTIFICATION MARK
	WALL TYPE MARK
	FLOOR/CEILING & ROOF ASSEMBLY TYPE MARK
	WINDOW TAG
	KEY NOTE
	FIRE EXTINGUISHER CABINET
	FIRE EXTINGUISHER ON HANGERS OR BRACKETS
	DOWN SPOUT
	REVISION CLOUD
	REVISION DELTA
	BARRIER FREE SYMBOL
	WATER HEATER W/ OVERFLOW PAN
	ILLUMINATED EXIT SIGN W/ BATTERY BACK-UP
	EMERGENCY LIGHTING W/ BATTERY BACK-UP
	HOSE BIB
	EXHAUST FAN
	FAN TERMINATION
	PASSIVE ROOF VENTILATOR
	DECK OR ROOF DRAIN
	ROOF DRAIN W/ OVERFLOW DRAIN
	SCUPPER
	CENTER LINE
	PROPERTY LINE
	HIDDEN OR EXISTING CONSTRUCTION
	BREAK LINE
	FLOORING TRANSITION
	RAMP ARROW WITH PERCENT SLOPE
	DECK OR ROOF SLOPE

REFERENCING

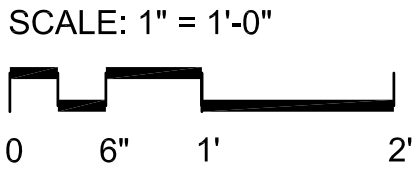
SECTIONS ARE CROSS REFERENCED IN THE FOLLOWING MANNER:



NORTH ARROW



GRAPHIC SCALE



DIMENSIONING STANDARDS

- DO NOT SCALE DRAWINGS FOR DIMENSIONS. DIMENSIONS ARE INDICATED IN THE DOCUMENTS.
- ALL INTERIOR PARTITIONS ARE DIMENSIONED TO THE FACE OF WALL UNLESS NOTED OTHERWISE.
- THE TERM "EQUAL" OR "EQ" IS USED IN LIEU OF ACTUAL DIMENSIONS WHERE EQUAL SPACING OF ELEMENTS IS REQUIRED.
- THE TERM "CLEAR" OR "CLR" IS USED TO DENOTE A MINIMUM DIMENSIONAL REQUIREMENT. HOWEVER, THE DIMENSION COULD BE LARGER.
- WALLS CENTERED ON A COLUMN OR GRIDLINE WILL NOT BE DIMENSIONED ON PLANS BUT WILL BE DRAWN AS INDICATED BELOW.
- WALLS WITH A FINISHED FACE FLUSH WITH THE FACE OF A COLUMN OR COREWALL WILL NOT BE DIMENSIONED ON PLANS BUT WILL BE DRAWN AS INDICATED BELOW.
- DIMENSIONS AT WINDOW WALL ARE TO CENTER OF MULLION, TO FACE OF MULLION AT CORNER CONDITIONS, AND TO ROUGH OPENING AT HEAD AND JAM CONDITIONS, UNLESS NOTED OTHERWISE.
- DOORS AND OPENINGS IN WALLS
 - DOORS OR OPENINGS LOCATED ADJACENT TO A RIGHT ANGLE WALL ARE TO BE INSTALLED 4" FROM ADJACENT WALL. THIS CONDITION IS TYPICAL AND WILL NOT BE DIMENSIONED.
 - DOORS NOT LOCATED ADJACENT TO A RIGHT ANGLE WALL WILL BE DIMENSIONED TO THE CENTER OF DOOR FRAME OPENING, U.O.N.
 - OPENINGS NOT LOCATED ADJACENT TO A RIGHT ANGLE WALL WILL BE DIMENSIONED TO THE JAMB OF THE OPENING AND THE OPENING WILL BE DIMENSIONED.
- ALL HEIGHTS ARE DIMENSIONED FROM THE TOP OF THE STRUCTURAL (T.O.S.S.) SLAB UNLESS NOTED OTHERWISE.

MATERIALS

	EARTH SURFACE
	SAND / GROUT
	CONCRETE
	WOOD OR METAL STUD WALLS
	GYP SUM BOARD
	CONT. WOOD FRAMING
	WOOD BLOCKING
	FINISHED WOOD
	PLYWOOD
	BATT INSULATION
	RIGID INSULATION BOARD
	BRICK
	CONCRETE UNIT MASONRY
	STEEL
	GLASS
	RESILIENT TILES

ABBREVIATIONS

AB	ANCHOR BOLT	FRC	FIBER REINFORCED CONCRETE	PRV	POWER ROOF VENT
A/C	AIR CONDITIONING	FSB	FOOD STORAGE BUILDING	PSF	LBS PER SQUARE FOOT
ACT	ACOUSTICAL CEILING TILE	FT	FEET	PTD	PAPER TOWEL DISPENSER
ADJC	ADJUSTABLE	FTG	FOOTING	QT	QUARRY TILE
AFF	ABOVE FINISH FLOO	FTR	FINNED TUBE RADIATION	R	RADIUS, RISER
AHU	AIR HANDLING UNIT	FURN	FURNITURE, FURNACE	RAD	RADIATOR
ALUM	ALUMINUM	GA	GAGE	RC	REINFORCED CONCRETE
APT	APARTMENT	GALV	GALVANIZED	RCP	REINFORCED CONCRETE PIPE
BD	BOARD	GI	GALVANIZED IRON	RD	ROOF DRAIN
BFE	BOTTOM FOOTING ELEVATION	GC	GENERAL CONTRACTOR	RECPT	RECEPTACLE
BITUM	BITUMINOUS	GL	GLASS, GLAZING	REINF	REINFORCED
BLDG	BUILDING	GND	GROUND	RET	RETAINING
BLK	BLOCK	GR	GRADE	RHMS	ROUND HEAD MACHINE
BLKG	BLOCKING MACHINE	GRL	GRILLE	RHWS	ROUND HEAD WOOD
BM	BEAM	GRV	GRAVITY ROOF VENT	RM	ROOM
BOT	BOTTOM	GWB	GYP SUM WALL BOARD	RO	ROUGH OPENING
BRG	BEARING	GWT	GLAZED WALL TILE	RWL	RAINWATER LEADER
BUR	BUILT-UP ROOFING	GYP	GYP SUM	SD	SOAP DISPENSER
CAB	CABINET	HORIZ	HORIZONTAL	SECT	SECTION
CPT	CARPET	HC	HANDICAPPED	SFT	STRUCTURAL FACING TILE
CH BD	CHALKBOARD	HDR	HEADER	SHR	SHOWER
CEM	CEMENT	HDWD	HARDWOOD	SHT	SHEET
CHAN	CHANNEL	HHMS	HEX HEAD MACHINE SCREW	SIM	SIMILAR
CJ	CONSTRUCTION JOINT	HM	HOLLOW METAL	SMS	SHEET METAL SCREW
CL	CENTER LINE	H PT	HIGH POINT	SND	SAN. NAPKIN DISPENSER
CL	CLOSET	HNDRL	HANDRAIL	SNR	SANITARY NAPKIN RECEPTACLE
CLG	CEILING	HGT	HEIGHT	SP	SPACE
CMU	CONCRETE MASONRY UNIT	HR	HOOR	SPEC	SPECIFICATION
CMT	CERAMIC MOSAIC TILE	HVAC	HEATING, VENTILATION & AIR	SPKLR	SPRINKLER
CO	CLEAN OUT	CONDITIONING		SQ	SQUARE
COL	COLUMN	ID	INSIDE DIAMETER	SS	SANITARY SEWER
COMP	COMPRESSION, COMPACTED	IF	INSIDE FACE	S SK	SERVICE SINK
CONC	CONCRETE	IN	INCH	SST	STAINLESS STEEL
CONT	CONTINUOUS	INSUL	INSULATION	STD	STANDARD
CONTR	CONTRACTOR	INT	INTERIOR	STL	STEEL
CONV.	CONVECTOR	INV	INVERT	STRUC	STRUCTURAL
CORR	CORRIDOR	JAN	JANITOR	SUSP	SUSPENDED
DBL	DOUBLE	JST	JOIST SND	T	TOP, TILE, TREAD
DET	DETAIL	JT	JOINT SND	TEMP	TEMPORARY
DF	DRINKING FOUNTAIN	LAM	LAMINATED	TERR	TERRAZZO
DIA	DIAMETER	LAV	LAVATORY	T&G	TOUNGE & GROOVE
DIM	DIMENSION	LP	LOWPOINT	TH	THRESHOLD, THICK
DISP	DISPENSER	MATL	MATERIAL	TOD	TOP OF DECK
DN	DOWN	MAX	MAXIMUM	TOJ	TOP OF JOIST
DO	DITTO	MB	MARKER BOARD	TOS	TOP OF STEEL
DR	DRAIN, DOOR	MECH	MECHANICAL	TPD	TOILET PAPER DISPENSER
DTL	DETAIL	MFR	MANUFACTURER	TR	TROWELED, TREAD
D/W	DISHWASHER	MH	MANHOLE	TS	TUBULAR STEEL
DWG	DRAWING	MIN	MINIMUM, MINUTE	TYP	TYPICAL
DS	DOWN SPOUT	MIR	MIRROR	UGRD	UNDERGROUND
DWL	DOWEL	MISC	MISCELLANEOUS	UH	UNIT HEATER
EA	EACH	MO	MASONRY OPENING	UNO	UNLESS NOTED OTHERWISE
EPDM	ETYLENE PROPYLENE DIENE MONOMER	MTL	METAL	UR	URINAL
EF	EACH FACE	MTD	MOUNTED	UTIL	UTILITY
EL	ELEVATION	NIC	NOT IN CONTRACT	VERT	VERTICAL
ELEC	ELECTRIC	NO	NUMBER	VCT	VINYL COMP. TILE
EQUIP	EQUIPMENT	NS	NEAR SIDE	W/	WITH
EW	EACH WAY	OA	OVER ALL	WC	WATER CLOSET / TOILET
EW C	ELECTRIC WATER COOLER	OC	ON CENTER	W/D	WASHER/DRYER
ELVR	ELEVATOR	OD	OUTSIDE DIAMETER	WD	WOOD
EXH	EXHAUST	OF.	OUTSIDE FACE	WDW	WINDOW
EXST	EXISTING	OPNG	OPENING	WH	WATER HEATER
EXP JT	EXPANSION JOINT	PR	PAIR	WN SC	WAINSCOAT
EXT	EXTERIOR	PNL	PANEL	WO	WITHOUT
F	FAN	PART	PARTITION	WP	WORKING POINT
FD	FLOOR DRAIN	PERF	PERFORATED		
FDN	FOUNDATION	P/C	PRECAST		
FHMS	FLAT HEAD MACHINE SCREW	PLAS	PLASTER		
FH	FIRE HYDRANT	PL	PLATE		
FLR	FLOOR	P LAM	PLASTIC LAMINATE		
FLG	FLANGE	PT	PAINT		
FRPF	FIREPROOF, FRAME	PREFIN	PREFIN		

MEADOWDALE BEACH PARK
AND ESTUARY DESIGN
19-103913LDA

ARCHITECTURE GENERAL NOTES

A-1.3

SHEET NO. 2 OF 16

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RECORD DRAWINGS

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INCH SCALE ACCORDINGLY



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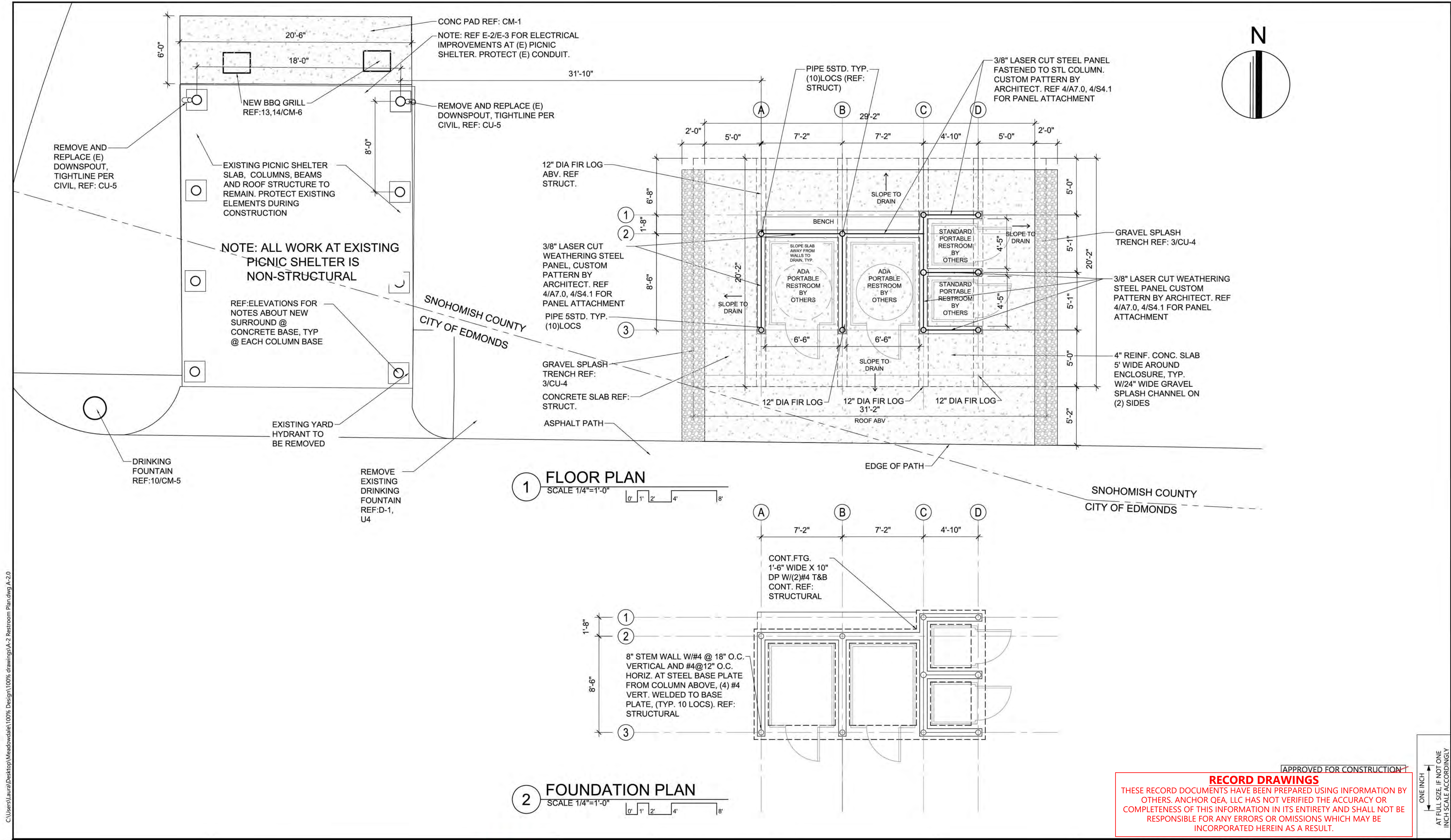
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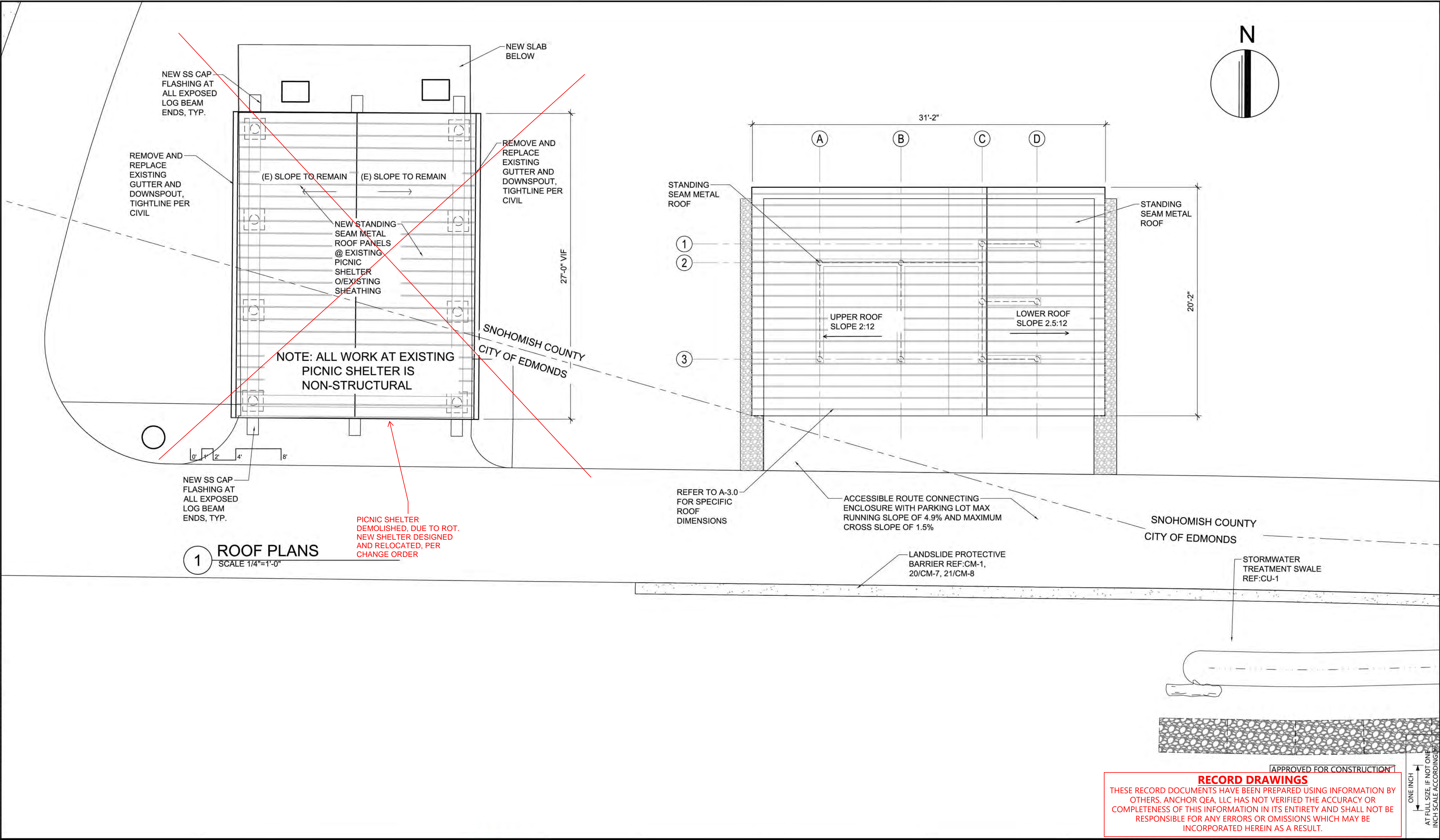
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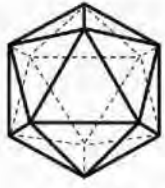


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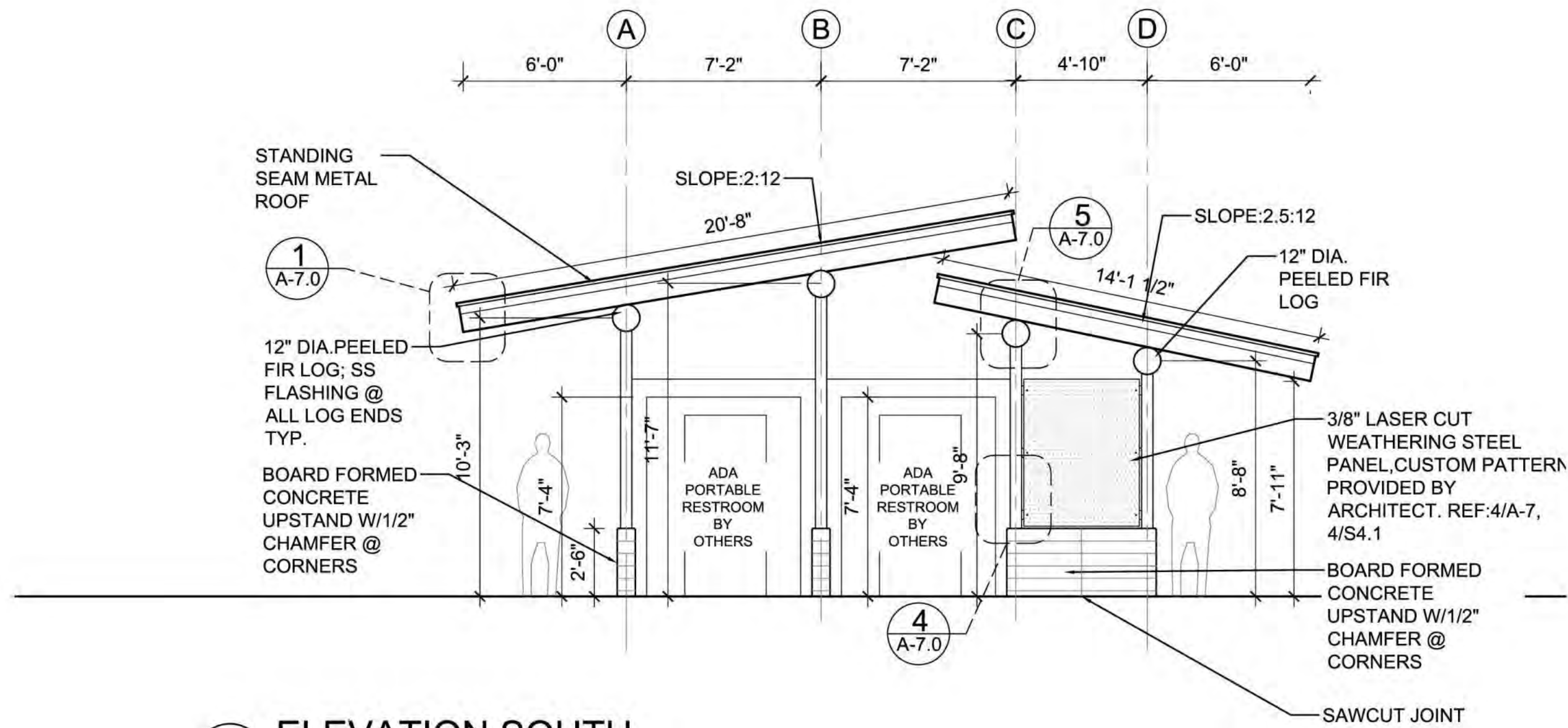


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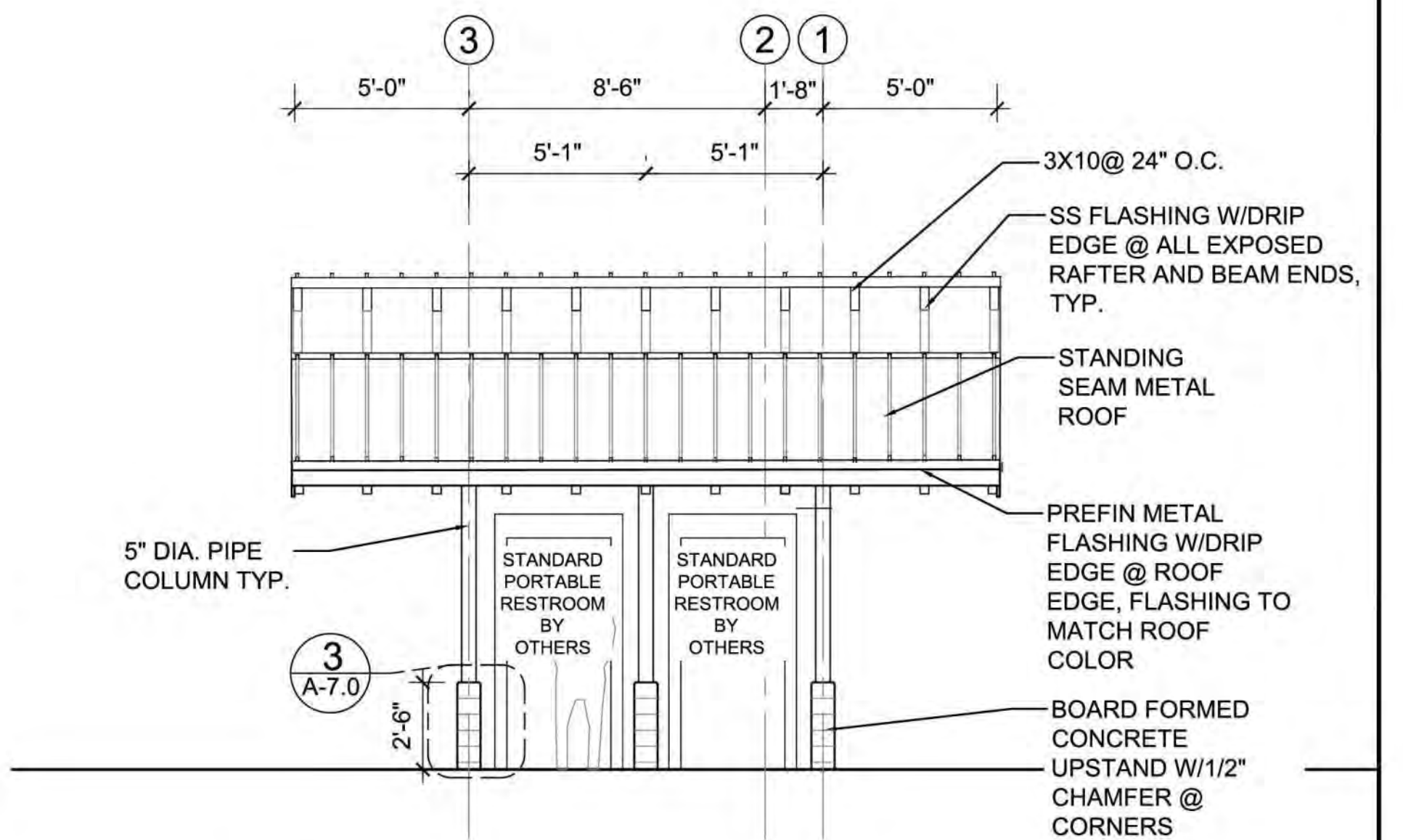


	 SALT STUDIO	 Snohomish County Parks and Recreation		REVISIONS		DESIGNED BY: SALT STUDIO DRAWN BY: LH CHECKED BY: LH APPROVED BY: LH SCALE: AS NOTED DATE: AUGUST 2020	MEADOWDALE BEACH PARK AND ESTUARY DESIGN PFN 19-103913LDA PORTABLE TOILET ENCLOSURE AND EXISTING PICNIC SHELTER ROOF PLANS	A-2.1 SHEET NO. 50 OF 81
				REV	DATE			
				1	10/15/23	MJR		DELETE PICNIC SHELTER - RECORD DWGS

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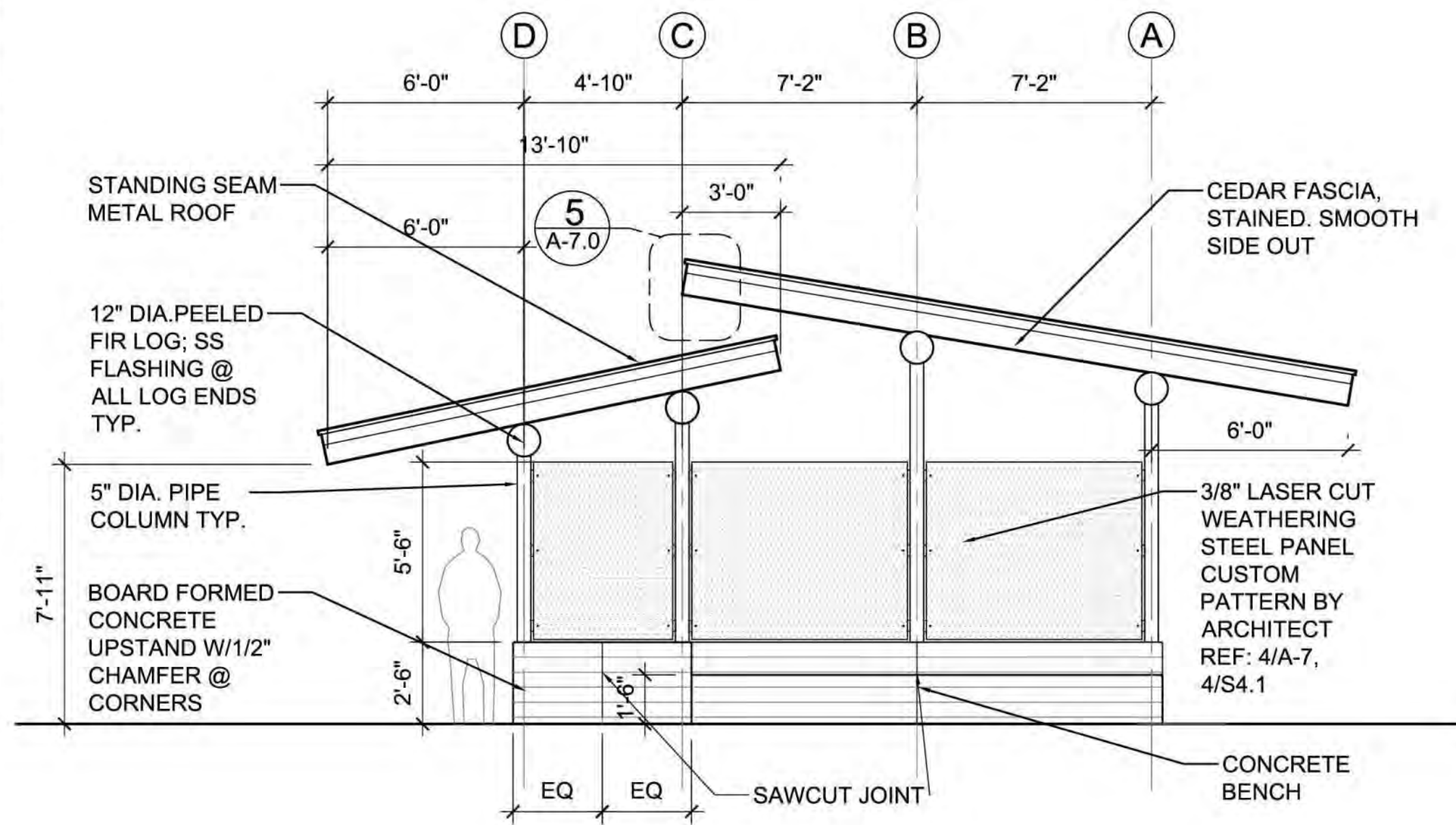


1 ELEVATION SOUTH
SCALE 1/4"=1'-0"

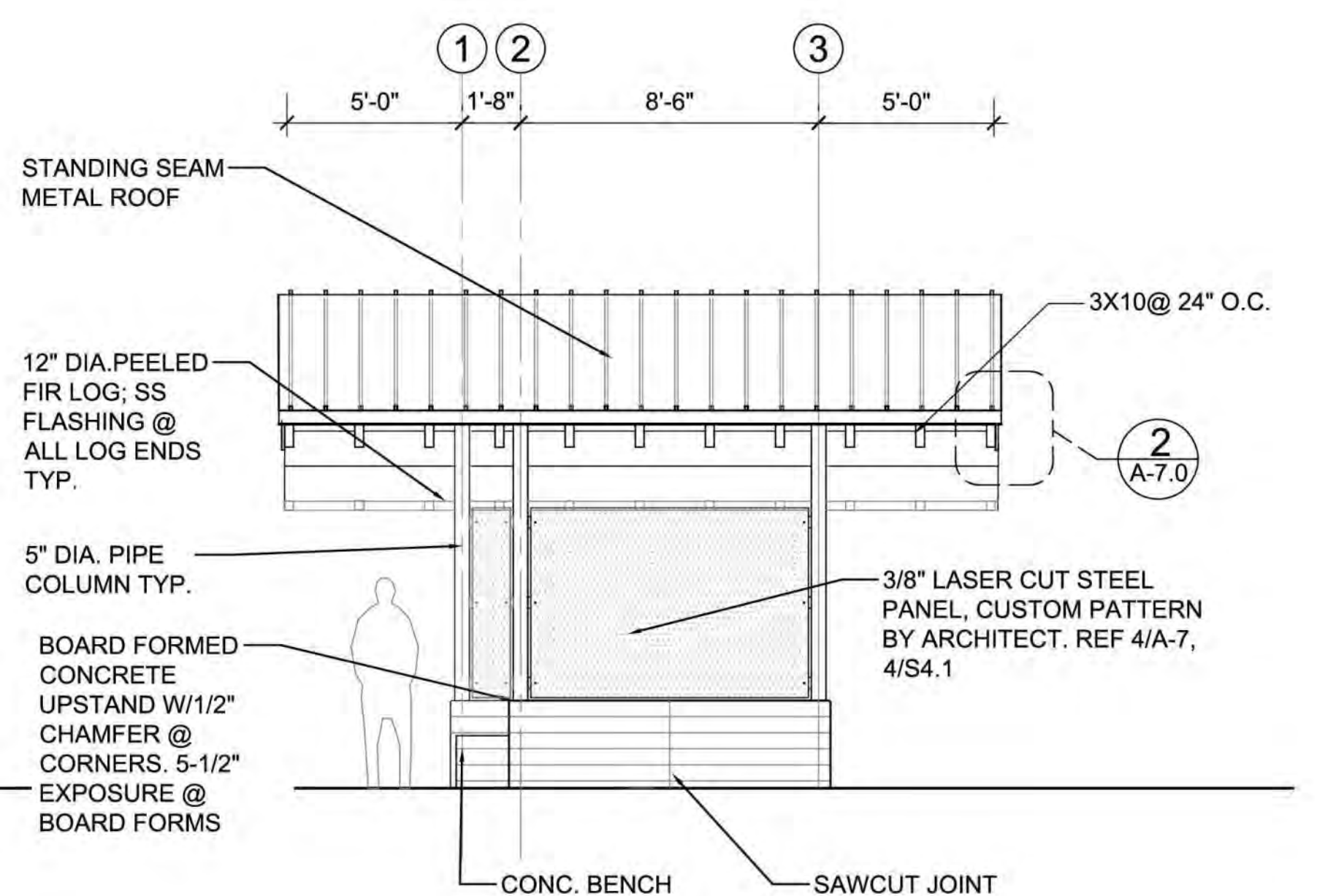


2 ELEVATION EAST
SCALE 1/4"=1'-0"

LEGEND			
#	ELEMENT	MATERIAL	COLOR / FINISH
1	CONCRETE	CAST IN PLACE, BOARD FORMED	GRAY CONCRETE W/ ANTI-GRAFFITI COATING
2	COLUMNS	STEEL	PAINT
3	EXPOSED STRUCTURE	PEELED DOUGLAS FIR LOGS	CLEAR FINISH PER SPEC
4	ENCLOSURE PANEL	WEATHERING STEEL	
5	RAFTERS, TRIM	WOOD	SEMI TRANSPARENT STAIN
6	T&G DECKING	WOOD	SEMI TRANSPARENT STAIN
7	ROOFING	STANDING SEAM METAL ROOF	PER SPEC
8	EXPOSED FLASHING AT LOG ENDS	STAINLESS STEEL	
9	MISC ROOF FLASHING	METAL	TO MATCH ROOF
10	GUTTERS& DOWNSPOUTS	METAL	TO MATCH ROOF
11			

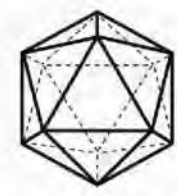


3 ELEVATION NORTH
SCALE 1/4"=1'-0"



4 ELEVATION WEST
SCALE 1/4"=1'-0"

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MEADOWDALE BEACH PARK
AND ESTUARY DESIGN
PFN 19-103913LDA

PORTABLE TOILET ENCLOSURE ELEVATIONS

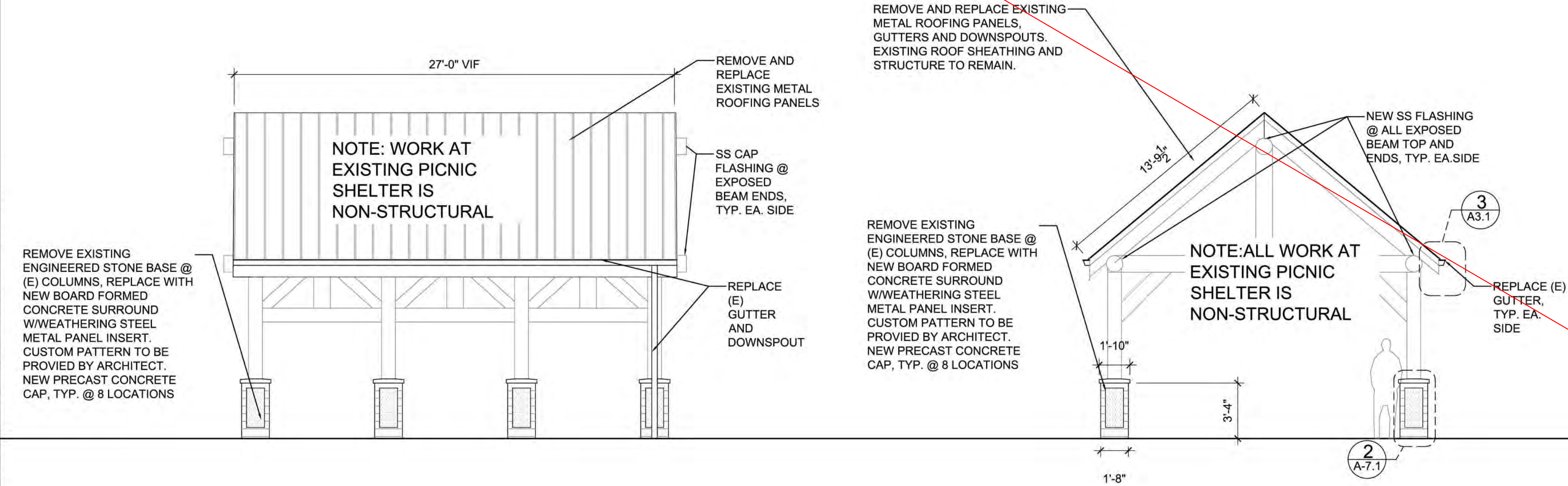
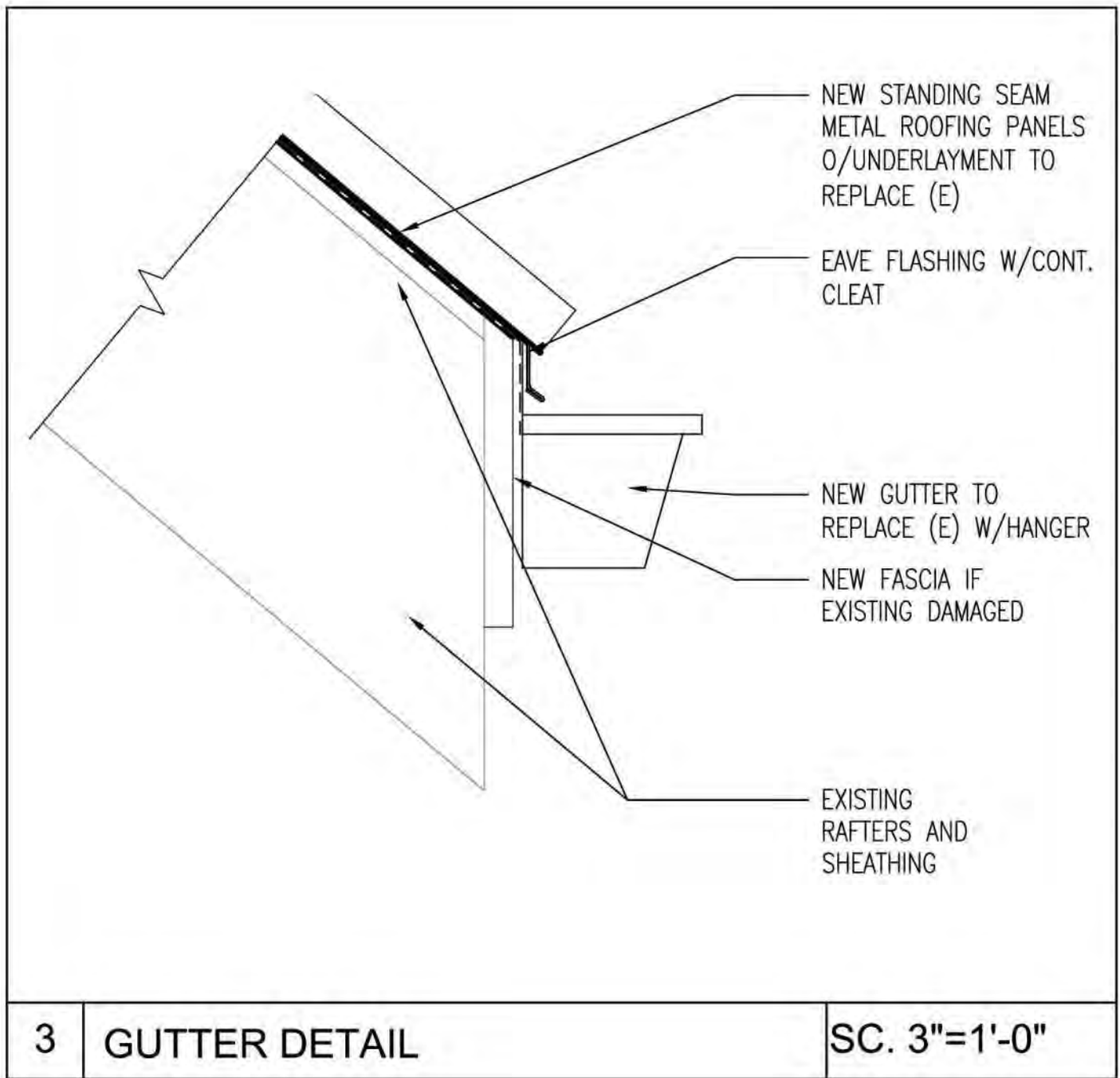
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SHEET NO. 51 OF 81

ONE INCH
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INCH SCALE ACCORDINGLY

Sep 01, 2020 9:52am \$GETVAR(7) C:\Users\Laura\Desktop\Meadowdale\100% Design\100% drawings\A-3 Restroom Elevations Sections.dwg A-3.1

PICNIC SHELTER
DEMOLISHED, DUE TO ROT.
NEW SHELTER DESIGNED
AND RELOCATED, PER
CHANGE ORDER



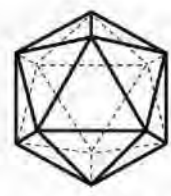
1 SECTION
SCALE 1/4"=1'-0"

2 SECTION
SCALE 1/4"=1'-0"

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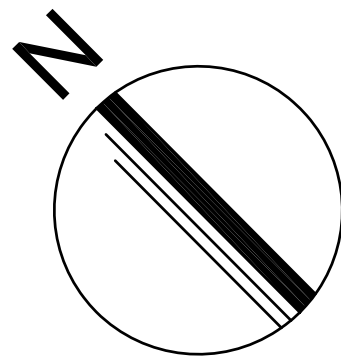
**MEADOWDALE BEACH PARK
AND ESTUARY DESIGN**
PFN 19-103913LDA

EXISTING PICNIC SHELTER ELEVATIONS

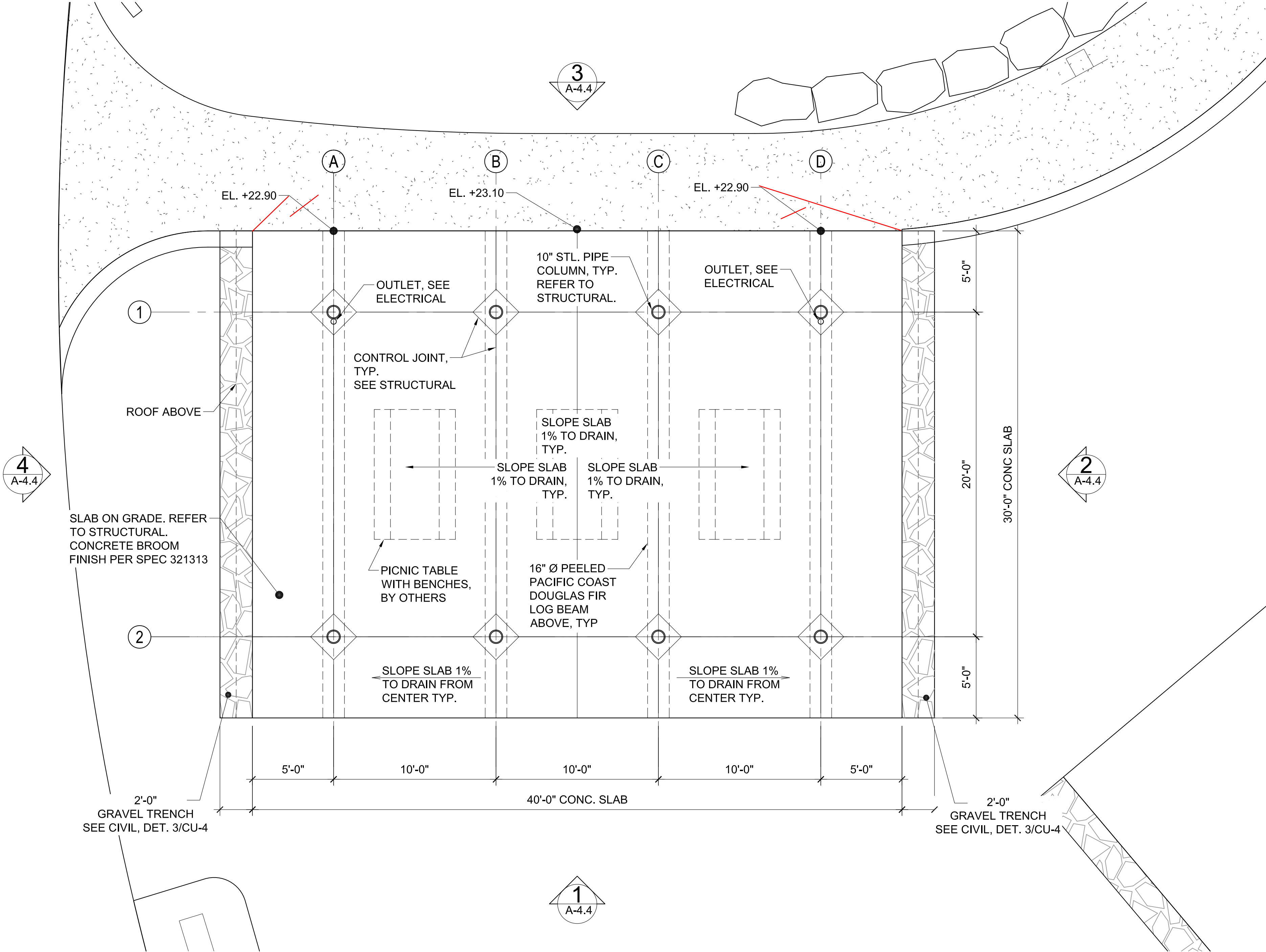
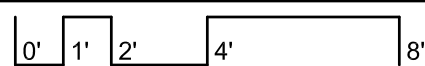
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SHEET NO. 52 OF 81

ONE INCH
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1 FLOOR PLAN
SCALE 1/4"=1'-0"

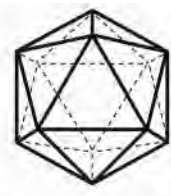


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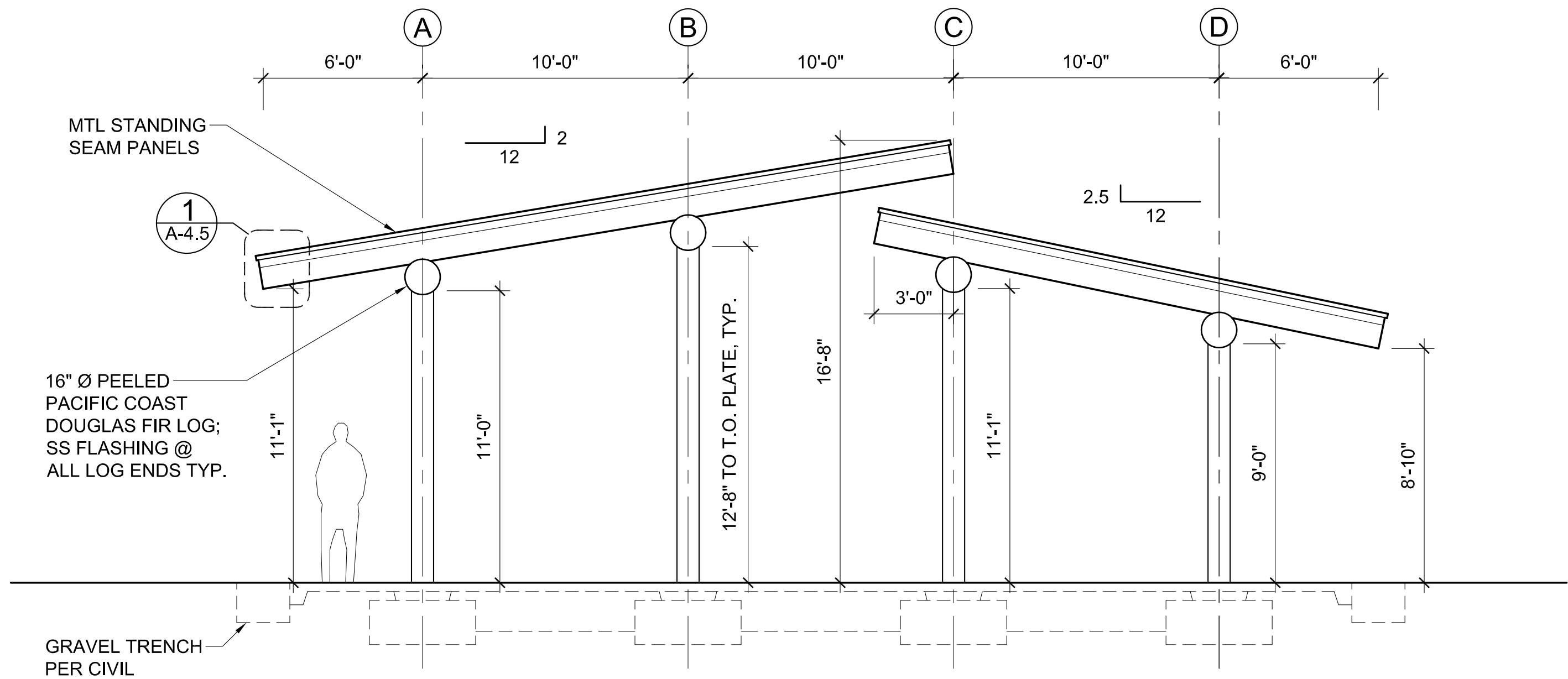
MEADOWDALE BEACH PARK
AND ESTUARY DESIGN
19-103913LDA

PICNIC SHELTER FLOOR PLAN

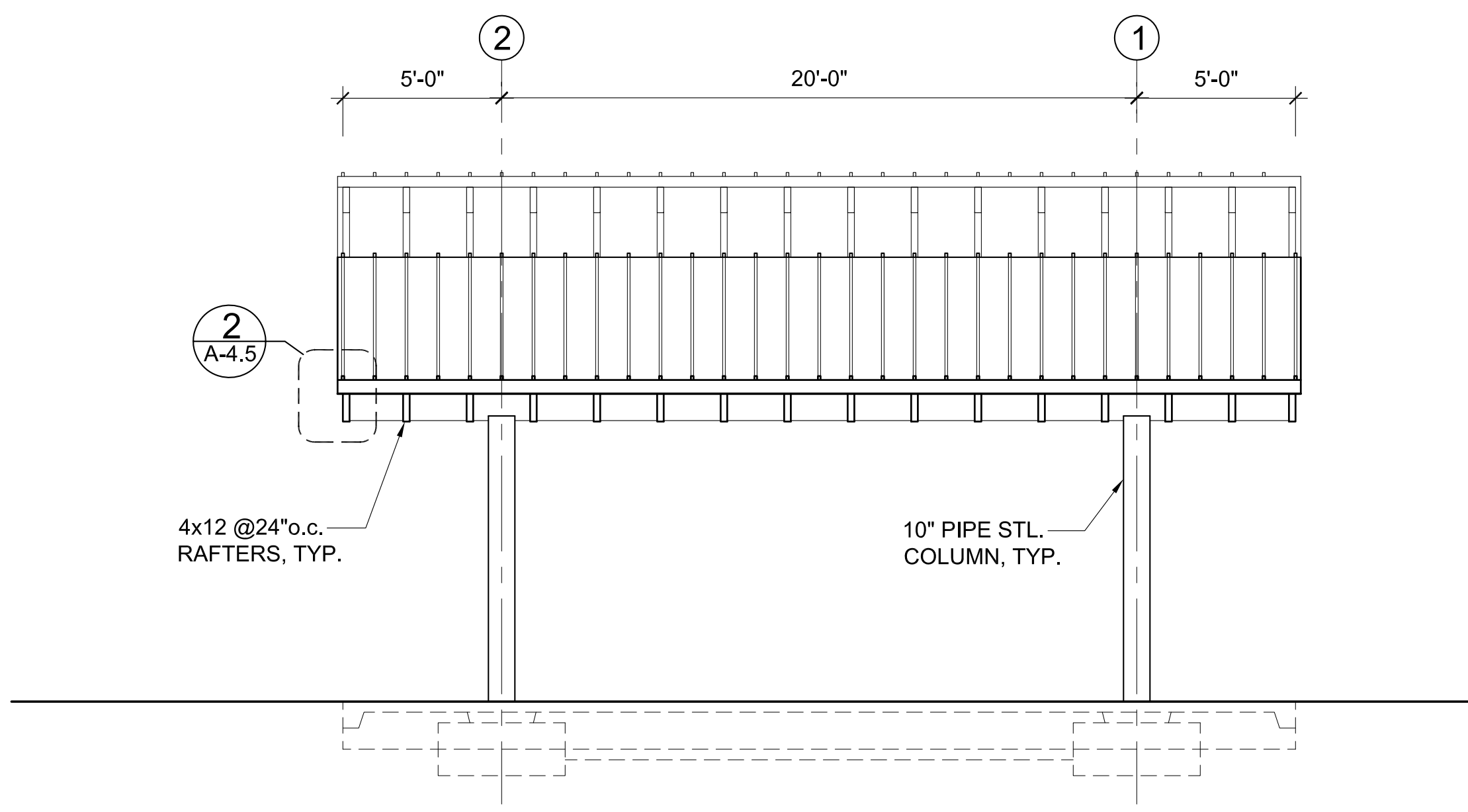
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SHEET NO. 3 OF 16

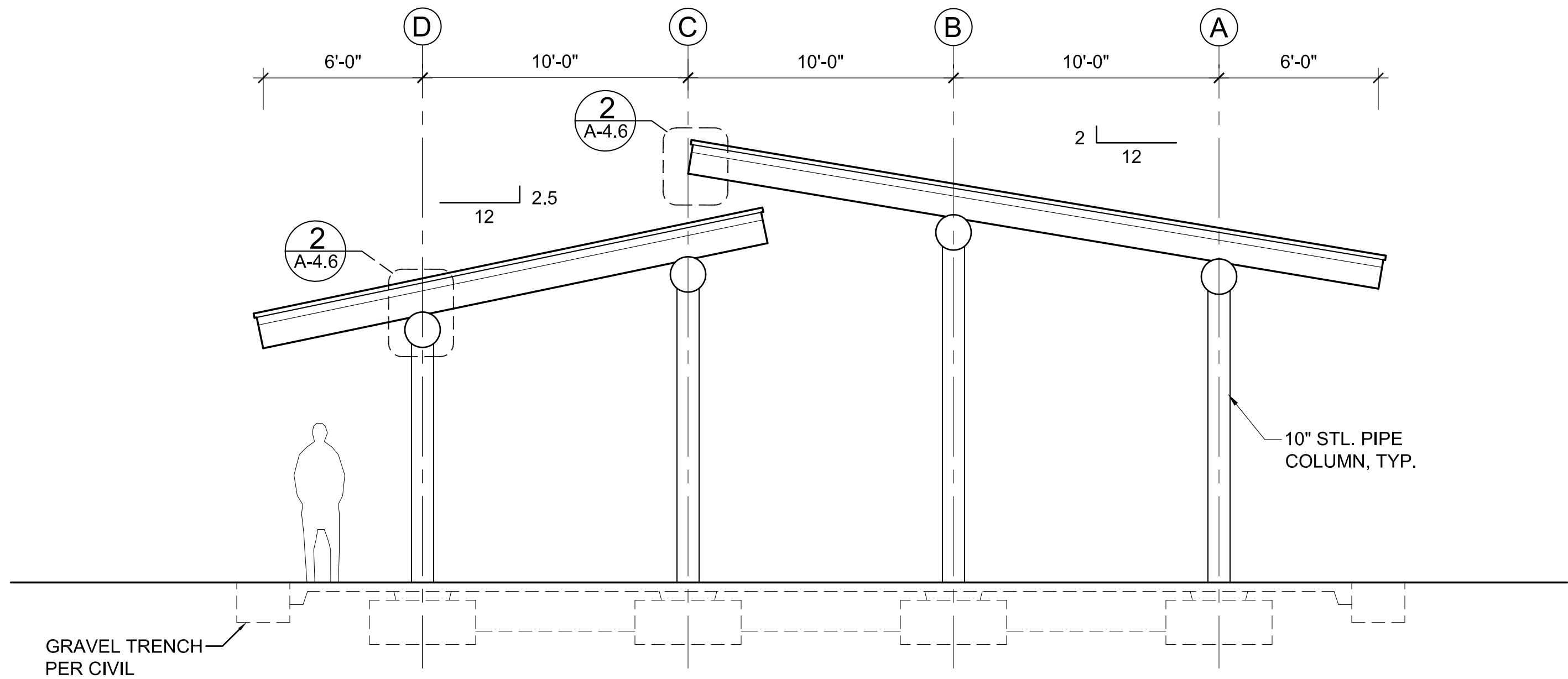
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Feb 16, 2023 5:47pm \$GETVAR?



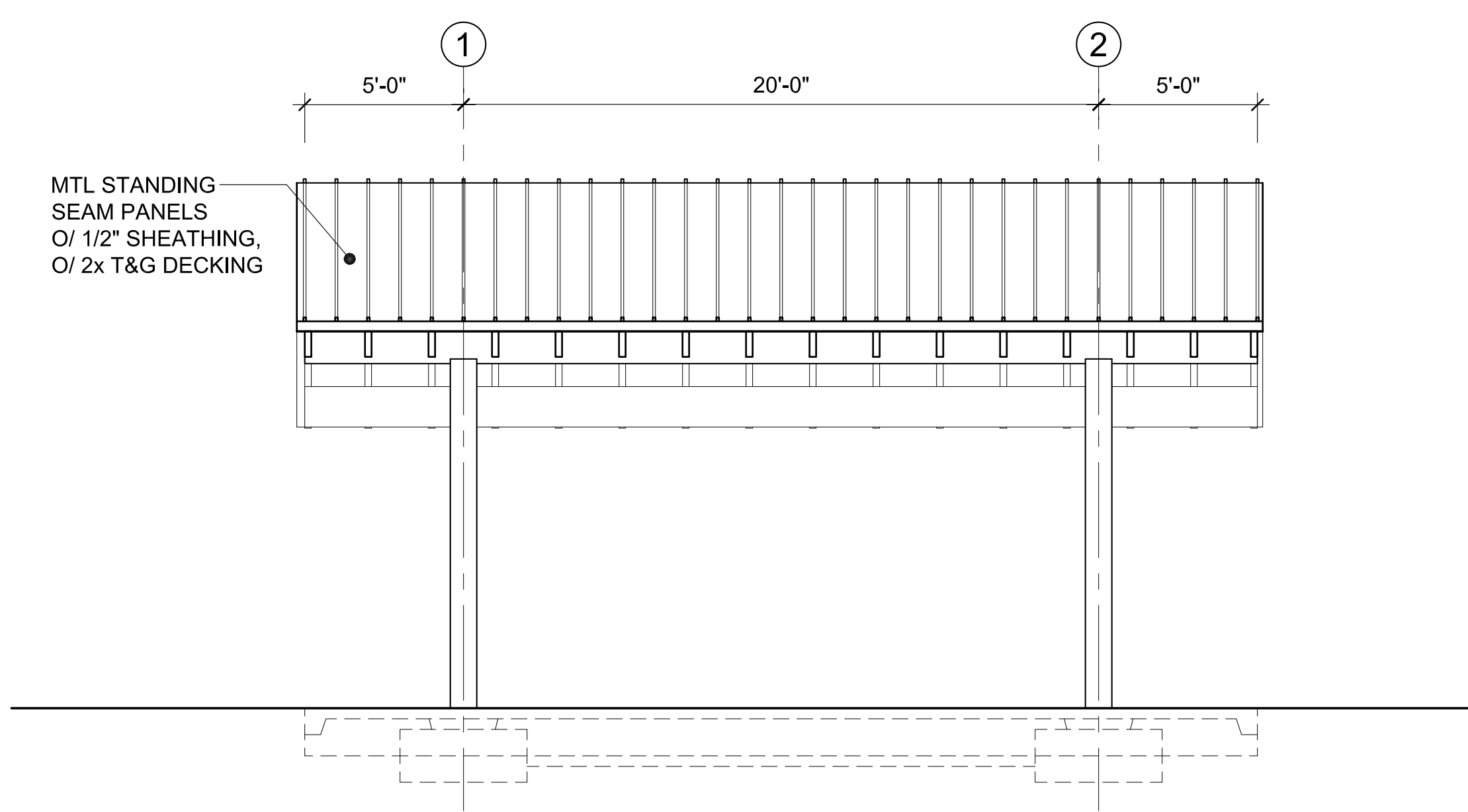
1 ELEVATION SOUTHWEST
SCALE 1/4"=1'-0"



2 ELEVATION SOUTHEAST
SCALE 1/4"=1'-0"

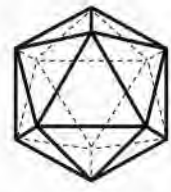


3 ELEVATION NORTHEAST
SCALE 1/4"=1'-0"



4 ELEVATION NORTHWEST
SCALE 1/4"=1'-0"

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RECORD DRAWINGS
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SALT STUDIO



REVISIONS					
REV	DATE	BY	APP'D	DESCRIPTION	

DESIGNED BY: LH
DRAWN BY: LH
CHECKED BY: LH
APPROVED BY: LH
SCALE: AS NOTED
DATE: FEBRUARY 2023

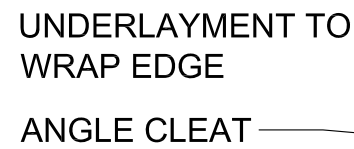
MEADOWDALE BEACH PARK
AND ESTUARY DESIGN
19-103913LDA

PICNIC SHELTER ELEVATIONS

A-4.2

SHEET NO. 5 OF 16

ONE INCH
AT FULL SIZE, IF NOT ONE
INCH SCALE ACCORDINGLY



PREFIN FLASHING
W/ DRIP EDGE
PREFIN FLASHING
TO MATCH ROOF
COLOR

1x3 CEDAR TRIM

SS FLASHING W/ DRIF
EDGE @ EXPOSED
RAFTER TAILS

— BUTYL TAPE
SEALANT

— 1½" SCREW SHANK
GROMMETTED NAIL

STANDING SEAM METAL ROOF
O/ APPROVED UNDERLAYMENT

- 1/2" PLYWD SHEATHING

- 2x T&G CEDAR DECKING

- 3x12 RAFTER



STANDING SEAM METAL
ROOF O/ APPROVED
UNDERLAYMENT

1/2" PLYWD SHEATHING

2x T&G CEDAR DECKING

3x12 RAFTER

— PREFIN FLASHING
W/ DRIP EDGE
PREFIN FLASHING
TO MATCH ROOF COLOR

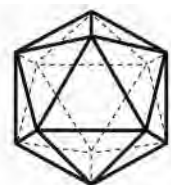
— 1x4 CEDAR TRIM CUT
TO FIT

—1x2 CEDAR TRIM

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RECORD DRAWINGS

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**MEADOWDALE BEACH PARK
AND ESTUARY DESIGN**
19-103913LDA

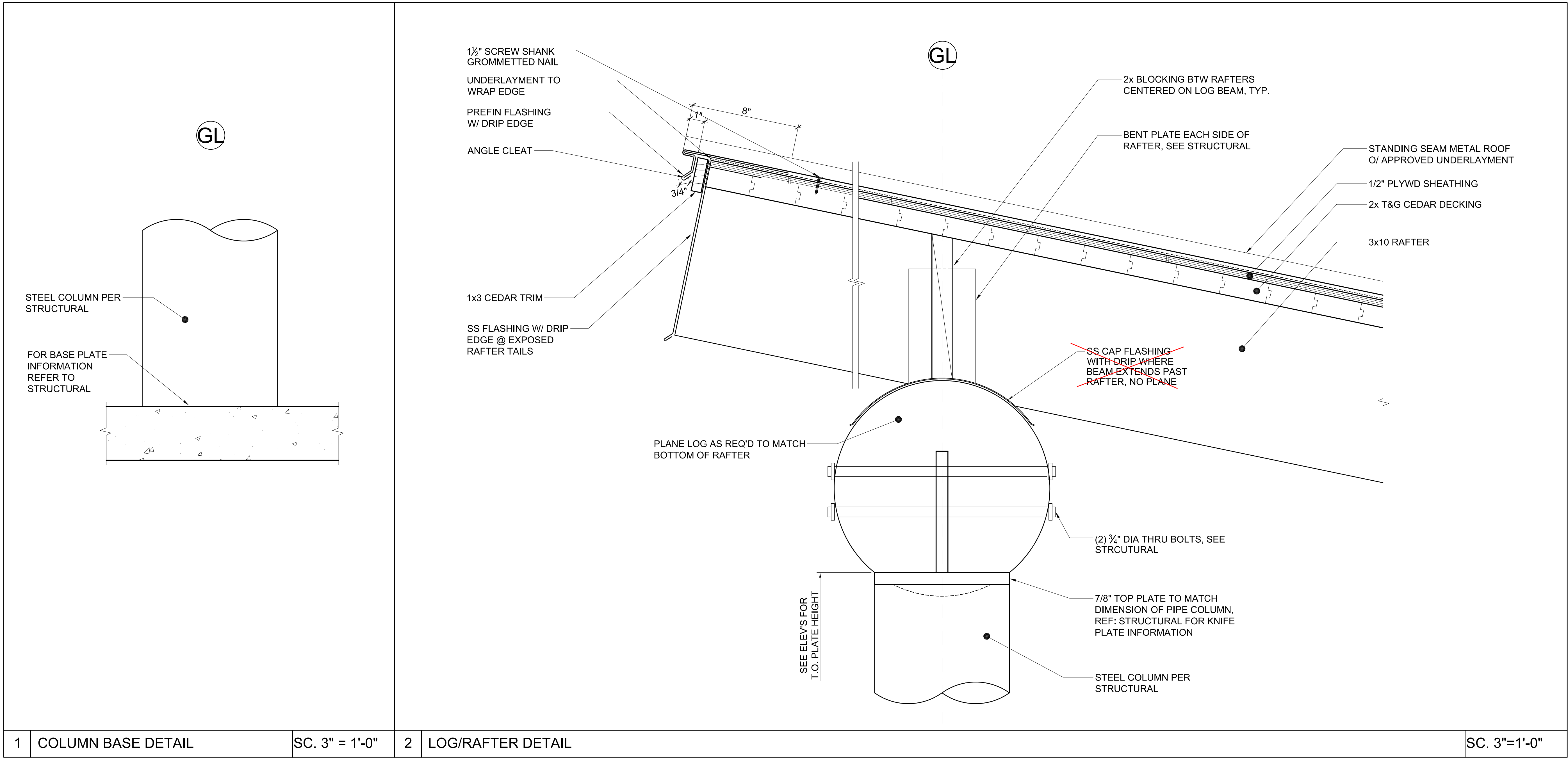
PICNIC SHELTER DETAILS

A-4.3

SHEET NO. **6** OF **16**

ONE INCH
AT FULL SIZE, IF NOT ONE
INCH SCALE ACCORDINGLY

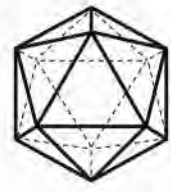
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1	10/15/23	MJR		RECORD DWGS	

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DATE: FEBRUARY 2023

**MEADOWDALE BEACH PARK
AND ESTUARY DESIGN**
19-103913LDA

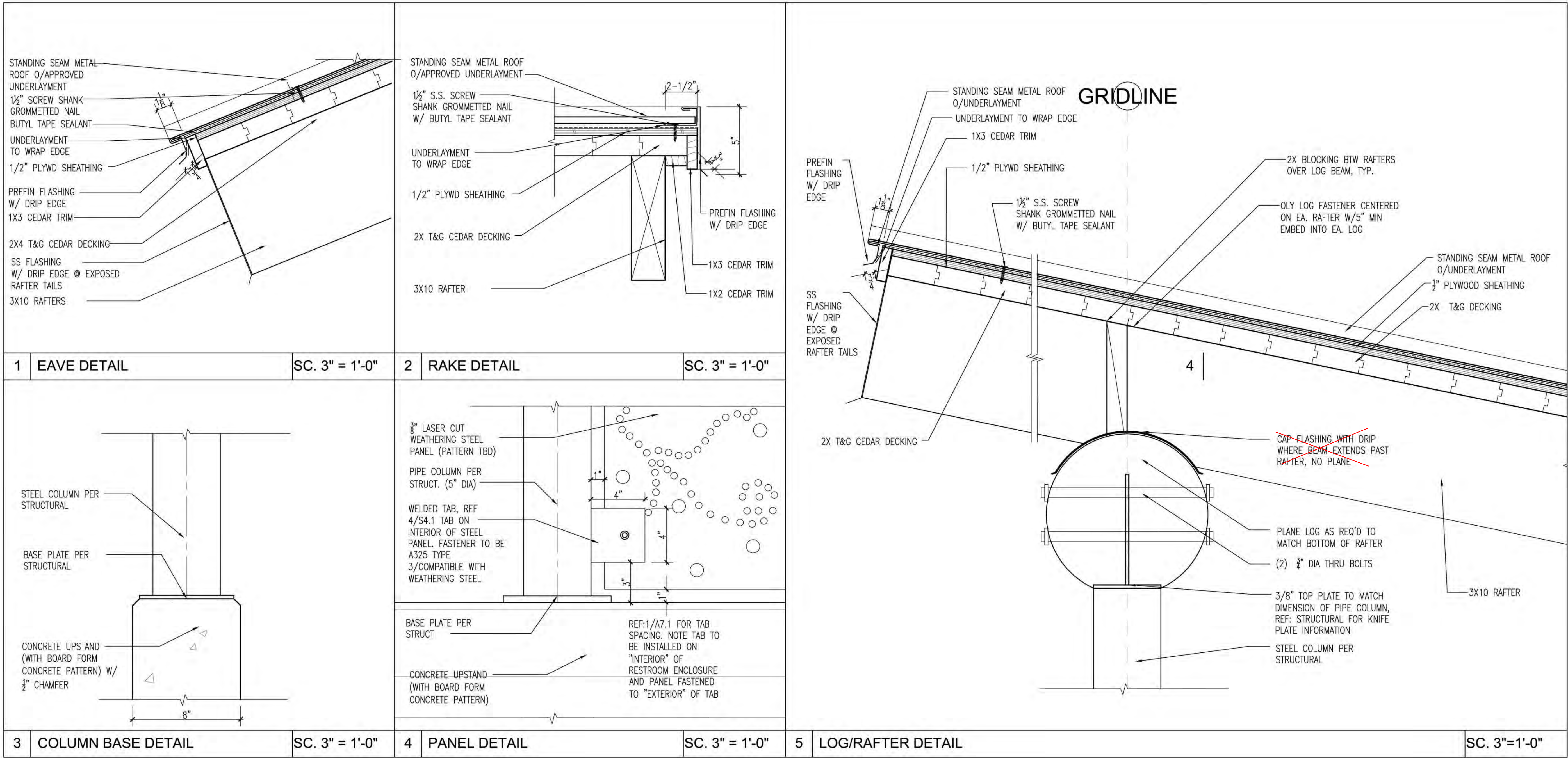
PICNIC SHELTER DETAILS

A-4.4

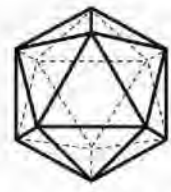
SHEET NO. 7 OF 16

ONE INCH
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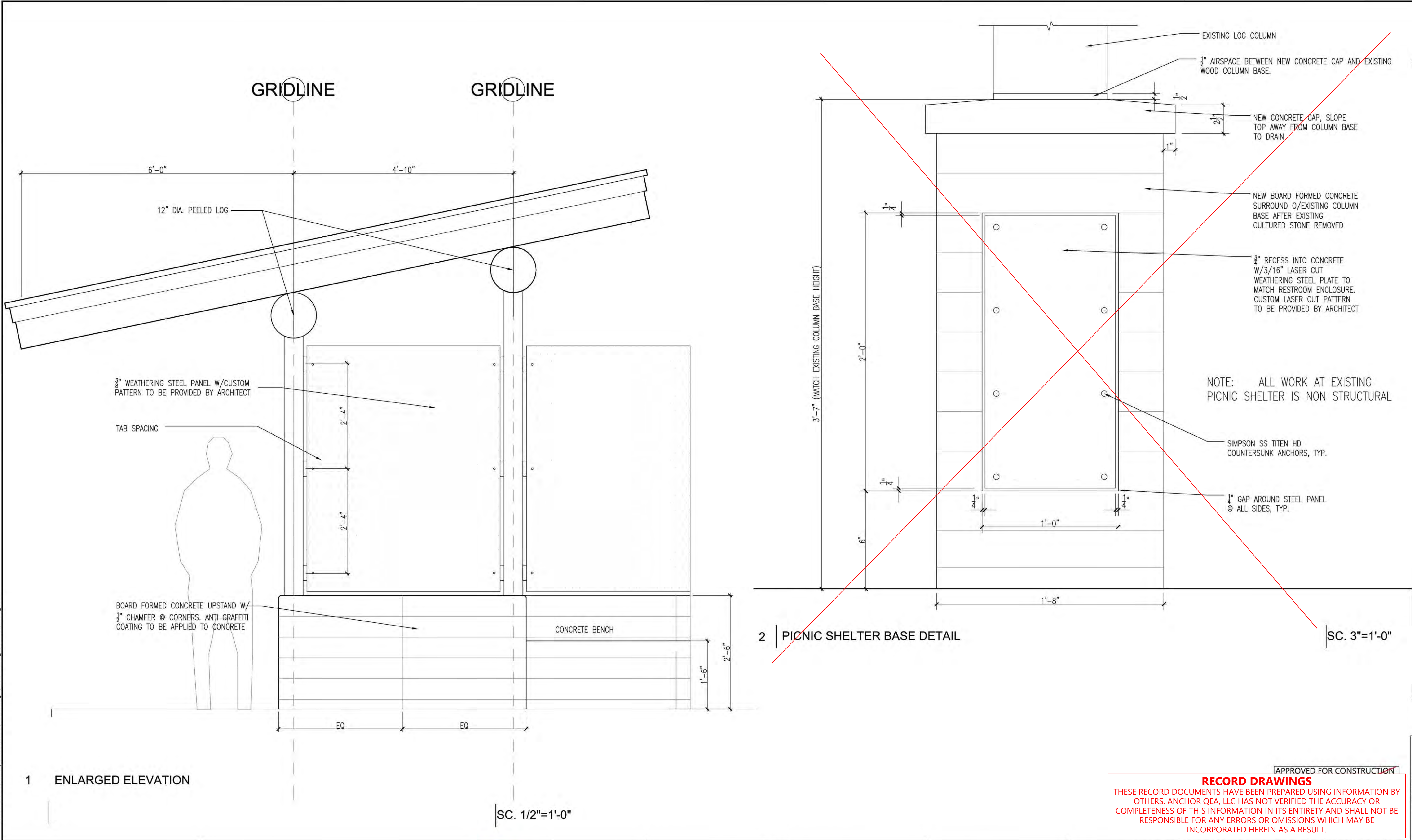
**MEADOWDALE BEACH PARK
AND ESTUARY DESIGN**
PFN 19-103913LDA

PORTABLE TOILET ENCLOSURE DETAILS

A-7.0

SHEET NO. 53 OF 81

ONE INCH
AT FULL SIZE, IF NOT ONE
INCH SCALE ACCORDINGLY

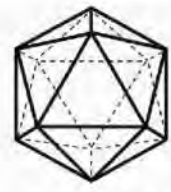


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**MEADOWDALE BEACH PARK
AND ESTUARY DESIGN**
PFN 19-103913LDA

**PORTABLE TOILET ENCLOSURE
ELEVATION, PICNIC SHELTER BASE
DETAIL**

A-7.1

SHEET NO. 54 OF 81

ONE INCH
AT FULL SIZE, IF NOT ONE
INCH SCALE ACCORDINGLY

SECTION 5, TOWNSHIP 27 N., RANGE 4 E

General Structural Notes

THE FOLLOWING APPLY UNLESS SHOWN OTHERWISE ON THE DRAWINGS

CRITERIA

1. ALL MATERIALS, WORKMANSHIP, DESIGN, AND CONSTRUCTION SHALL CONFORM TO THE DRAWINGS, SPECIFICATIONS, AND THE INTERNATIONAL BUILDING CODE (2015 EDITION).
2. DESIGN LOADING CRITERIA:
- HANDRAILS AND GUARDS
- GUARDRAILS/BALCONY RAILS 50 PLF
- GUARDRAILS/BALCONY RAILS CONCENTRATED LOAD 200 LBS
- ROOF
- ROOF LIVE LOAD 25 PSF
- BOARDWALK
- LIVE LOAD 100 PSF
- MISCELLANEOUS LOADS
- DEFLECTION CRITERIA
- LIVE LOAD DEFLECTION L/360
- TOTAL LOAD DEFLECTION L/240
- ENVIRONMENTAL LOADS
- SNOW Ce=1.0, Is=1.0, Ct=1.2, Pg=20 PSF, Pf=25 PSF
- WIND Gcpi=0.18, 110 MPH, RISK CATEGORY II, EXPOSURE "B"
- EARTHQUAKE . . ANALYSIS PROCEDURE: EQUIVALENT LATERAL FORCE PROCEDURE
- LATERAL SYSTEM (RESTROOM STRUCTURE): STEEL SPECIAL
- CANTILEVER COLUMN SYSTEM, SITE CLASS=E, Ss=1.331,
- Sds=0.80, Si=0.525, SDI=0.84, Cs=0.321, SDC D, Ie=1.0,
- R=2.5
- SEE PLANS FOR ADDITIONAL LOADING CRITERIA

3. STRUCTURAL DRAWINGS SHALL BE USED IN CONJUNCTION WITH ARCHITECTURAL AND LANDSCAPE DRAWINGS FOR BIDDING AND CONSTRUCTION. ARCHITECTURAL AND LANDSCAPE DRAWINGS ARE THE PRIME CONTRACT DRAWINGS. ANY DISCREPANCIES FOUND AMONG THE DRAWINGS, THE SPECIFICATION, THESE GENERAL NOTES AND THE SITE CONDITIONS SHALL BE REPORTED TO THE ARCHITECT AND LANDSCAPE ARCHITECT, WHO SHALL CORRECT SUCH DISCREPANCY IN WRITING. ANY WORK DONE BY THE GENERAL CONTRACTOR AFTER DISCOVERY OF SUCH DISCREPANCY SHALL BE DONE AT THE GENERAL CONTRACTOR'S RISK.
4. PRIMARY STRUCTURAL ELEMENTS NOT DIMENSIONED ON THE STRUCTURAL PLANS AND DETAILS SHALL BE LOCATED BY THE ARCHITECTURAL AND LANDSCAPE PLANS AND DETAILS. VERTICAL DIMENSION CONTROL IS DEFINED BY THE ARCHITECTURAL WALL SECTIONS, BUILDING SECTION, AND PLANS. DETAILING AND SHOP DRAWING PRODUCTION FOR STRUCTURAL ELEMENTS WILL REQUIRE DIMENSIONAL INFORMATION CONTAINED IN BOTH ARCHITECTURAL AND STRUCTURAL DRAWINGS.
5. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL SAFETY PRECAUTIONS AND THE METHODS, TECHNIQUES, SEQUENCES OR PROCEDURES REQUIRED TO PERFORM THE CONTRACTORS WORK. THE STRUCTURAL ENGINEER HAS NO OVERALL SUPERVISORY AUTHORITY OR ACTUAL AND/OR DIRECT RESPONSIBILITY FOR THE SPECIFIC WORKING CONDITIONS AT THE SITE AND/OR FOR ANY HAZARDS RESULTING FROM THE ACTIONS OF ANY TRADE CONTRACTOR. THE STRUCTURAL ENGINEER HAS NO DUTY TO INSPECT, SUPERVISE, NOTE, CORRECT, OR REPORT ANY HEALTH OR SAFETY DEFICIENCIES TO THE OWNER, CONTRACTORS, OR OTHER ENTITIES OR PERSONS AT THE PROJECT SITE.
6. CONTRACTOR SHALL PROVIDE TEMPORARY BRACING FOR THE STRUCTURE AND STRUCTURAL COMPONENTS UNTIL ALL FINAL CONNECTIONS HAVE BEEN COMPLETED IN ACCORDANCE WITH THE PLANS. CONFORM TO ASCE 37-14 "DESIGN LOADS ON STRUCTURES DURING CONSTRUCTION".
7. CONTRACTOR-INITIATED CHANGES SHALL BE SUBMITTED IN WRITING TO THE ARCHITECT AND STRUCTURAL ENGINEER FOR APPROVAL PRIOR TO FABRICATION OR CONSTRUCTION. CHANGES SHOWN ON SHOP DRAWINGS ONLY WILL NOT SATISFY THIS REQUIREMENT.
8. DRAWINGS INDICATE GENERAL AND TYPICAL DETAILS OF CONSTRUCTION. WHERE CONDITIONS ARE NOT SPECIFICALLY INDICATED BUT ARE OF SIMILAR CHARACTER TO DETAILS SHOWN, SIMILAR DETAILS OF CONSTRUCTION SHALL BE USED, SUBJECT TO REVIEW AND APPROVAL BY THE ARCHITECT AND THE STRUCTURAL ENGINEER. ALL TYPICAL NOTES AND DETAILS SHOWN ON DRAWINGS SHALL APPLY, UNLESS NOTED OTHERWISE. TYPICAL DETAILS MAY NOT NECESSARILY BE INDICATED ON THE PLANS BUT SHALL STILL APPLY AS SHOWN OR DESCRIBED IN THE DETAILS. WHERE TYPICAL DETAILS ARE NOTED ON THE PLANS, THE SPECIFIED TYPICAL DETAIL SHALL BE USED. WHERE NO TYPICAL DETAIL IS NOTED, IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO CHOOSE THE APPROPRIATE TYPICAL DETAIL FROM THOSE PROVIDED OR REQUEST ADDITIONAL INFORMATION. THE CONTRACTOR SHALL SUBMIT ALL PROPOSED ALTERNATE TYPICAL DETAILS TO THOSE PROVIDED WITH RELATED CALCULATIONS TO THE ENGINEER FOR APPROVAL PRIOR TO SHOP DRAWING PRODUCTION AND FIELD USE.
9. ALL STRUCTURAL SYSTEMS, WHICH ARE TO BE COMPOSED OF COMPONENTS TO BE FIELD ERRECTED, SHALL BE SUPERVISED BY THE SUPPLIER DURING MANUFACTURING, DELIVERY, HANDLING, STORAGE AND ERECTION IN ACCORDANCE WITH INSTRUCTIONS PREPARED BY THE SUPPLIER.

10. SHOP DRAWINGS FOR THE FOLLOWING ITEMS SHALL BE SUBMITTED TO THE ARCHITECT AND STRUCTURAL ENGINEER FOR REVIEW PRIOR TO FABRICATION OF THESE ITEMS.
- REINFORCING STEEL (FOR CONCRETE CONSTRUCTION)
- STRUCTURAL STEEL
- DESIGN BUILD ELEMENTS
- CONTRACTOR SHALL SUBMIT WALL ELEVATION DRAWINGS OF AT LEAST 1/8" = 1'-0" SCALE INDICATING LOCATIONS OF CONNECTION EMBEDMENT'S AND WALL OPENINGS FOR REVIEW PRIOR TO CONSTRUCTION. CONTRACTOR SHALL COORDINATE WALL ELEVATION DRAWINGS WITH REINFORCEMENT SHOP DRAWINGS.
- APPROVED SETS OF ALL SHOP DRAWINGS SHALL ALSO BE SUBMITTED TO THE BUILDING DEPARTMENT.
11. SHOP DRAWING REVIEW: DIMENSIONS AND QUANTITIES ARE NOT REVIEWED BY THE ENGINEER OF RECORD, THEREFORE MUST BE VERIFIED BY THE CONTRACTOR. CONTRACTOR SHALL REVIEW AND STAMP DRAWINGS PRIOR TO REVIEW BY ENGINEER OF RECORD. CONTRACTOR SHALL REVIEW DRAWINGS FOR CONFORMANCE WITH THE MEANS, METHODS, TECHNIQUES, SEQUENCES AND OPERATIONS OF CONSTRUCTION, AND ALL SAFETY PRECAUTIONS AND PROGRAMS INCIDENTAL THERETO. SUBMITTALS SHALL INCLUDE A REPRODUCIBLE AND ONE COPY; REPRODUCIBLE WILL BE MARKED AND RETURNED WITHIN TWO WEEKS OF RECEIPT WITH A NOTATION INDICATING THAT THE SUBMITTAL HAS BEEN FOUND TO BE IN GENERAL CONFORMANCE WITH THE DESIGN OF THE BUILDING. THE SUBMITTED ITEMS SHALL NOT BE INSTALLED UNTIL THEY HAVE BEEN APPROVED BY THE BUILDING OFFICIAL.

- SHOP DRAWING SUBMITTALS PROCESSED BY THE ENGINEER ARE NOT CHANGE ORDERS. THE PURPOSE OF SHOP DRAWING SUBMITTALS BY THE CONTRACTOR IS TO DEMONSTRATE TO THE ENGINEER THAT THE CONTRACTOR UNDERSTANDS THE DESIGN CONCEPT, BY INDICATING WHICH MATERIAL IS INTENDED TO BE FURNISHED AND INSTALLED AND BY DETAILING THE INTENDED FABRICATION AND INSTALLATION METHODS. IF DEVIATIONS, DISCREPANCIES, OR CONFLICTS BETWEEN SHOP DRAWING SUBMITTALS AND THE CONTRACT DOCUMENTS ARE DISCOVERED EITHER PRIOR TO OR AFTER SHOP DRAWING SUBMITTALS ARE PROCESSED BY THE ENGINEER, THE DESIGN DRAWINGS AND SPECIFICATIONS SHALL CONTROL AND SHALL BE FOLLOWED.
12. SHOP DRAWINGS OF DESIGN BUILD COMPONENTS INCLUDING TEMPORARY SHORING AND PRE-ENGINEERED ASSEMBLIES SHALL BE STAMPED AND SIGNED BY A STRUCTURAL ENGINEER LICENSED IN THE STATE OF WASHINGTON. SHOP DRAWINGS SHALL BE APPROVED BY THE COMPONENT DESIGNER PRIOR TO REVIEW OF THE ARCHITECT OR ENGINEER OF RECORD FOR GENERAL CONFORMANCE WITH THE DESIGN OF THE BUILDING. THE COMPONENT DESIGNER IS RESPONSIBLE FOR CODE CONFORMANCE AND ALL NECESSARY CONNECTIONS NOT SPECIFICALLY CALLED OUT ON ARCHITECTURAL OR STRUCTURAL DRAWINGS. SHOP DRAWINGS SHALL INDICATE MAGNITUDE AND DIRECTION OF ALL LOADS IMPOSED ON BASIC STRUCTURE. DESIGN CALCULATIONS SHALL BE SUBMITTED WITH THE SHOP DRAWINGS.
13. DEFERRED SUBMITTALS: SHOP DRAWINGS AND CALCULATIONS OF DEFERRED SUBMITTAL COMPONENTS SHALL BE STAMPED AND SIGNED BY A STRUCTURAL ENGINEER LICENSED IN THE STATE OF WASHINGTON AND SHALL BE APPROVED BY THE COMPONENT DESIGNER PRIOR TO REVIEW BY THE ARCHITECT OR ENGINEER OF RECORD FOR GENERAL CONFORMANCE. ALL NECESSARY CONNECTIONS NOT SPECIFICALLY CALLED OUT ON THE ARCHITECTURAL OR STRUCTURAL DRAWINGS SHALL BE INCLUDED. SHOP DRAWINGS SHALL INCLUDE THE MAGNITUDE AND DIRECTION OF ALL LOADS IMPOSED ON THE BASIC STRUCTURE. DESIGN CALCULATIONS SHALL ACCOMPANY ALL DEFERRED SUBMITTALS. THE ARCHITECT OR CONTRACTOR SHALL FORWARD DEFERRED SUBMITTALS TO THE BUILDING OFFICIAL WHERE REQUIRED.
- DEFERRED SUBMITTAL BUILDING COMPONENTS FOR THIS PROJECT SHALL INCLUDE:
- DESIGN-BUILD ELEMENTS
- PREFABRICATED STEEL PEDESTRIAN BRIDGE
- QUALITY ASSURANCE
14. SPECIAL INSPECTION SHALL BE PROVIDED IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS AND SECTIONS 110 AND 1705 OF THE INTERNATIONAL BUILDING CODE BY A QUALIFIED TESTING AGENCY DESIGNATED BY THE ARCHITECT, AND RETAINED BY THE BUILDING OWNER. THE ARCHITECT, STRUCTURAL ENGINEER, AND BUILDING DEPARTMENT SHALL BE FURNISHED WITH COPIES OF ALL INSPECTION AND TEST RESULTS. SPECIAL INSPECTION OF THE FOLLOWING TYPES OF CONSTRUCTION IS REQUIRED UNLESS NOTED OTHERWISE.
- STRUCTURAL STEEL FABRICATION AND ERECTION PER AISC 360
- CONCRETE CONSTRUCTION PER TABLE 1705.3
- SOIL CONDITIONS, FILL PLACEMENT, AND DENSITY PER TABLE 1705.6
- EPOXY GROUTED INSTALLATIONS PER MANUFACTURER
- DIAMOND PIER FOUNDATIONS PER MANUFACTURER

PERIODIC INSPECTION: INSPECTION SHALL BE PERFORMED AT INTERVALS NECESSARY TO CONFIRM THAT WORK REQUIRING SPECIAL INSPECTION IS IN COMPLIANCE WITH REQUIREMENTS.

CONTINUOUS INSPECTION: INSPECTOR SHALL BE ONSITE AND OBSERVE THE WORK REQUIRING INSPECTION AT ALL TIMES THAT WORK IS PERFORMED.

15. STRUCTURAL OBSERVATION SHALL BE PERFORMED IN ACCORDANCE WITH SECTIONS 1704.6 OF THE INTERNATIONAL BUILDING CODE FOR THE FOLLOWING BUILDING ELEMENTS:
- CONCRETE CONSTRUCTION
- STRUCTURAL STEEL CONSTRUCTION

THE CONTRACTOR SHALL PROVIDE THE ENGINEER OF RECORD ADEQUATE NOTICE TO SCHEDULE APPROPRIATE SITE VISITS FOR STRUCTURAL OBSERVATION.

STRUCTURAL OBSERVATION MEANS THE VISUAL OBSERVATION OF THE STRUCTURAL SYSTEM, FOR GENERAL CONFORMANCE TO THE APPROVED PLANS AND SPECIFICATIONS, AT SIGNIFICANT CONSTRUCTION STAGES AND AT COMPLETION OF THE STRUCTURAL SYSTEM. STRUCTURAL OBSERVATION DOES NOT INCLUDE OR WAIVE THE RESPONSIBILITY FOR THE INSPECTIONS REQUIRED BY SECTION 110, 1705, OR OTHER SECTIONS OF THE INTERNATIONAL BUILDING CODE.

THE OWNER SHALL EMPLOY THE ENGINEER OR ARCHITECT RESPONSIBLE FOR THE STRUCTURAL DESIGN, TO PERFORM STRUCTURAL OBSERVATION. OBSERVED DEFICIENCIES SHALL BE REPORTED IN WRITING TO THE OWNER'S REPRESENTATIVE, SPECIAL INSPECTOR, CONTRACTOR, AND THE BUILDING OFFICIAL. THE STRUCTURAL OBSERVER SHALL SUBMIT TO THE BUILDING OFFICIAL A WRITTEN STATEMENT THAT THE SITE VISITS HAVE BEEN MADE AND IDENTIFYING ANY REPORTED DEFICIENCIES WHICH, TO THE BEST OF THE STRUCTURAL OBSERVER'S KNOWLEDGE, HAVE NOT BEEN RESOLVED.

GEOTECHNICAL

16. FOUNDATION NOTES: SUBGRADE PREPARATION INCLUDING DRAINAGE, EXCAVATION, COMPACTION, AND FILLING REQUIREMENTS, SHALL CONFORM STRICTLY WITH RECOMMENDATIONS GIVEN IN THE SOILS REPORT OR AS DIRECTED BY THE SOILS ENGINEER. FOOTINGS SHALL BEAR ON SOLID UNDISTURBED EARTH OR COMPACTED STRUCTURAL FILL AT LEAST 24" BELOW LOWEST ADJACENT FINISHED GRADE. FOOTING DEPTHS/ELEVATIONS SHOWN ON PLANS (OR IN DETAILS) ARE MINIMUM AND FOR GUIDANCE ONLY; THE ACTUAL ELEVATIONS OF FOOTINGS MUST BE ESTABLISHED BY THE CONTRACTOR IN THE FIELD WORKING WITH THE TESTING LAB AND SOILS ENGINEER. BACKFILL BEHIND ALL RETAINING WALLS WITH FREE DRAINING GRANULAR FILL AND PROVIDE FOR SUBSURFACE DRAINAGE AS NOTED IN THE SOILS REPORT.
17. ALLOWABLE SOIL PRESSURE AT PEDESTRIAN BRIDGE WING WALLS (NATIVE SOILS / STRUCTURAL FILL). 2000/2000 PSF
- ALLOWABLE SOIL PRESSURE AT TOILET ENCLOSURE (NATIVE SOILS / STRUCTURAL FILL) 3000/3000 PSF
- LATERAL EARTH PRESSURE (RESTRAINED/UNRESTRAINED). 55 PCF/34 PCF
- ALLOWABLE PASSIVE EARTH PRESSURE (FS OF 1.5 INCLUDED). 300 PCF
- COEFFICIENT OF FRICTION (FS OF 1.5 INCLUDED). 0.35
- TRAFFIC SURCHARGE PRESSURE. PER FIGURE 11 IN GEOTECH REPORT
- SEISMIC SURCHARGE PRESSURE (UNIFORM LOAD) 12H PSF
- 4" DIA PILE CAPACITY WITH PILE TIP DEPTH AT 20'-0" WHERE LIQUEFACTION POTENTIAL HAS BEEN MITIGATED IN ACCORDANCE WITH THE GEOTECHNICAL REPORT
- STATIC CASE(COMPRESSION/TENSION). 2.3 TONS/ 0.37 TONS
- SEISMIC CASE(COMPRESSION/TENSION). 2.0 TONS/ 0.20 TONS
- BATTERED PILE CAPACITY (WHERE LIQUEFACTION POTENTIAL HAS BEEN MITIGATED IN ACCORDANCE WITH THE GEOTECHNICAL REPORT) IS DETERMINED BY RESOLVING THE PILE BATTER ANGLE INTO ITS GEOMETRIX HORIZONTAL AND VERTICAL COMPONENTS AND MULTIPLYING BY THE ESTIMATED VERTICAL PILE CAPACITY BASED ON PILE TIP EMBEDMENT DEPTH.

SOILS REPORT REFERENCE:

GEOTECHNICAL REPORT – MEADOWDALE BEACH PARK AND ESTUARY RESTORATION

SNOHOMISH COUNTY, WASHINGTON, 21-1-22288-060, BY SHANNON & WILSON, INC.

DATED FEBRUARY 16, 2018

18. PIN PILES SHOWN ON THE PLAN SHALL BE 4" DIAMETER SCHEDULE 80. THE MAXIMUM CAPACITY OF 4" PILES (WHERE LIQUIDUEFACTION POTENTIAL HAS BEEN MITIGATED IN ACCORDANCE WITH THE GEOTECHNICAL REPORT) SHALL BE PER FIGURE 13 PER THE GEOTECHNICAL REPORT. PILES USED IN COMMON TO RESIST LATERAL EARTH PRESSURES SHALL HAVE THE ADDITIONAL REQUIREMENT OF BEING EMBEDDED A MINIMUM OF 10 FEET BELOW RETAINED GRADE. THE MAXIMUM PILE ECCENTRICITY SHALL BE 2 INCHES. GEOTECHNICAL SPECIAL INSPECTION SHALL BE SUBJECT TO THE DISCRETION OF THE GEOTECHNICAL ENGINEER AND THE BUILDING DEPARTMENT. SEE PLANS FOR OTHER SIZES AND CRITERIA.

CONCRETE

19. CONCRETE SHALL BE MIXED, PROPORTIONED, CONVEYED AND PLACED IN ACCORDANCE WITH ACI 301, INCLUDING TESTING PROCEDURES. CONCRETE SHALL ATTAIN A 28-DAY STRENGTH OF f'c = 3,000 PSI AND MIX SHALL CONTAIN NOT LESS THAN 5-1/2 SACKS OF CEMENT PER CUBIC YARD AND SHALL BE PROPORTIONED TO PRODUCE A SLUMP OF 5" OR LESS. REQUIRED CONCRETE STRENGTH IS BASED ON THE DURABILITY REQUIREMENTS OF SECTION 1904 OF THE IBC. DESIGN STRENGTH IS f'c = 2,500 PSI.
20. A CONCRETE PERFORMANCE MIX SHALL BE SUBMITTED TO THE STRUCTURAL ENGINEER AND THE BUILDING DEPARTMENT FOR APPROVAL TWO WEEKS PRIOR TO PLACING ANY CONCRETE. THE PERFORMANCE MIX SHALL INCLUDE THE AMOUNTS OF CEMENT, FINE AND COARSE AGGREGATE, WATER AND ADMIXTURES AS WELL AS THE WATER CEMENT RATIO, SLUMP, CONCRETE YIELD AND SUBSTANTIATING STRENGTH DATA IN ACCORDANCE WITH ACI 318-14, SECTIONS 26.4.3 AND 26.4.4. THE USE OF A PERFORMANCE MIX REQUIRES BATCH PLANT INSPECTION, THE COST OF WHICH SHALL BE PAID BY THE GENERAL CONTRACTOR. REVIEW OF MIX SUBMITTALS BY THE ENGINEER OF RECORD INDICATES ONLY THAT INFORMATION PRESENTED CONFORMS GENERALLY WITH CONTRACT DOCUMENTS. CONTRACTOR OR SUPPLIER MAINTAINS FULL RESPONSIBILITY FOR SPECIFIED PERFORMANCE.
21. ALL CONCRETE WITH SURFACES EXPOSED TO WEATHER OR STANDING WATER SHALL BE AIR-ENTRAINED WITH AN AIR-ENTRAINING AGENT CONFORMING TO ASTM C260, C494, AND C618. TOTAL AIR CONTENT FOR FROST-RESISTANT CONCRETE SHALL BE IN ACCORDANCE WITH ACI 318-14, TABLE 19.3.2.1 MODERATE EXPOSURE, F1.
22. REINFORCING STEEL SHALL CONFORM TO ASTM A615 (INCLUDING SUPPLEMENT S1), GRADE 60, FY = 60,000 PSI. EXCEPTIONS: ANY BARS SPECIFICALLY SO NOTED ON THE DRAWINGS SHALL BE GRADE 40, FY = 40,000 PSI. WELDED WIRE FABRIC SHALL CONFORM TO ASTM A-185. SPIRAL REINFORCEMENT SHALL BE DEFORMED WIRE CONFORMING TO ASTM A615, GRADE 60, FY = 60,000 PSI.
23. DETAILING OF REINFORCING STEEL (INCLUDING HOOKS AND BENDS) SHALL BE IN ACCORDANCE WITH ACI 315-99 AND 318-14. LAP ALL CONTINUOUS REINFORCEMENT #5 AND SMALLER 40 BAR DIAMETERS OR 2'-0" MINIMUM. PROVIDE CORNER BARS AT ALL WALL AND FOOTING INTERSECTIONS. LAP CORNER BARS #5 AND SMALLER 40 BAR DIAMETERS OR 2'-0" MINIMUM. LAPS OF LARGER BARS SHALL BE MADE IN ACCORDANCE WITH ACI 318-14, CLASS B. LAP ADJACENT MATS OF WELDED WIRE FABRIC A MINIMUM OF 8" AT SIDES AND ENDS.
- NO BARS PARTIALLY EMBEDDED IN HARDENED CONCRETE SHALL BE FIELD BENT UNLESS SPECIFICALLY SO DETAILED OR APPROVED BY THE STRUCTURAL ENGINEER.
24. CONCRETE PROTECTION (COVER) FOR REINFORCING STEEL SHALL BE AS FOLLOWS:
- FOOTINGS AND OTHER UNFORMED SURFACES CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH 3"
- FORMED SURFACES EXPOSED TO EARTH OR WEATHER (#6 BARS OR LARGER) 2"
- FORMED SURFACES EXPOSED TO EARTH OR WEATHER (#5 BARS OR SMALLER). . . 1-1/2"
- COLUMN TIES OR SPIRALS AND BEAM STIRRUPS 1-1/2"
- SLABS AND WALLS (INT. FACE). . . GREATER OF BAR DIAMETER PLUS 1/8" OR 3/4"
25. CONCRETE WALL REINFORCING—PROVIDE THE FOLLOWING UNLESS DETAILED OTHERWISE:
- 6" WALLS #4 @ 12 HORIZ. #4 @ 12 VERTICAL 1 CURTAIN
- 8" WALLS #5 @ 12 HORIZ. #5 @ 12 VERTICAL 1 CURTAIN
- 10" WALLS #4 @ 12 HORIZ. #4 @ 12 VERTICAL 2 CURTAINS
- 12" WALLS #4 @ 12 HORIZ. #4 @ 12 VERTICAL 2 CURTAINS
26. CAST-IN-PLACE CONCRETE: SEE ARCHITECTURAL DRAWINGS FOR EXACT LOCATIONS AND DIMENSIONS OF DOOR AND WINDOW OPENINGS IN ALL CONCRETE WALLS. SEE MECHANICAL DRAWINGS FOR SIZE AND LOCATION OF MISCELLANEOUS MECHANICAL OPENINGS THROUGH CONCRETE WALLS. SEE ARCHITECTURAL DRAWINGS FOR ALL GROOVES, NOTCHES, CHAMFERS, FEATURE STRIPS, COLOR, TEXTURE, AND OTHER FINISH DETAILS AT ALL EXPOSED CONCRETE SURFACES, BOTH CAST-IN-PLACE AND PRECAST.
27. NON-SHRINK GROUT SHALL BE FURNISHED BY AN APPROVED MANUFACTURER AND SHALL BE MIXED AND PLACED IN STRICT ACCORDANCE WITH THE MANUFACTURER'S PUBLISHED RECOMMENDATIONS. GROUT STRENGTH SHALL BE AT LEAST EQUAL TO THE MATERIAL ON WHICH IT IS PLACED (3000 PSI MINIMUM).

APPROVED FOR CONSTRUCTION

RECORD DRAWINGS

THESE RECORD DOCUMENTS HAVE BEEN PREPARED USING INFORMATION BY OTHERS. ANCHOR QEA, LLC HAS NOT VERIFIED THE ACCURACY OR COMPLETENESS OF THIS INFORMATION IN ITS ENTIRETY AND SHALL NOT BE RESPONSIBLE FOR ANY ERRORS OR OMISSIONS WHICH MAY BE INCORPORATED HEREIN AS A RESULT.



REVISIONS				
REV	DATE	BY	APP'D	DESCRIPTION

DESIGNED BY: LSD

DRAWN BY: NHD

CHECKED BY: BDM

APPROVED BY: DJS

SCALE:

DATE: August 2020

**MEADOWDALE BEACH PARK
AND ESTUARY DESIGN
PFN 19-103913LDA**

GENERAL STRUCTURAL NOTES

S1.1

SHEET # 55 OF 81

ONE INCH
AT FULL SIZE, IF NOT ONE
INCH SCALE ACCORDING

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ssfengineers.com
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SECTION 5, TOWNSHIP 27 N., RANGE 4 E
General Structural Notes

THE FOLLOWING APPLY UNLESS SHOWN OTHERWISE ON THE DRAWINGS

ANCHORAGE

28. EPOXY-GROUTED ITEMS (THREADED RODS OR REINFORCING BAR) SPECIFIED ON THE DRAWINGS SHALL BE INSTALLED USING "HIT-RE 500 V3" AS MANUFACTURED BY HILTI CORP. INSTALL IN STRICT ACCORDANCE WITH ICC-ES REPORT NO. ESR-3814. CONCRETE BASE TEMPERATURE MUST BE BETWEEN 23 DEGREES, AND 104 DEGREES, F AT THE TIME OF INSTALLATION. RODS SHALL BE ASTM A-36 UNLESS OTHERWISE NOTED. PERIODIC SPECIAL INSPECTION OF INSTALLATION IS REQUIRED TO VERIFY ANCHOR OR EMBEDDED BAR TYPE AND DIMENSIONS, LOCATION, ADHESIVE IDENTIFICATION AND EXPIRATION, HOLE DIMENSIONS, HOLE CLEANING PROCEDURE, ANCHOR EMBEDMENT, AND ADHERENCE TO THE INSTALLATION INSTRUCTIONS. OVERHEAD INSTALLATIONS REQUIRE THE USE OF PISTON PLUGS (HIT-SZ,-IP) DURING INJECTION. OVERHEAD ANCHORS OR BARS MUST BE SUPPORTED WITH HIT-OWH, OR EQUIVALENT, UNTIL FULLY CURED. CONTINUOUS SPECIAL INSPECTION IS REQUIRED FOR HORIZONTAL AND OVERHEAD INSTALLATIONS.

STEEL

29. STRUCTURAL STEEL DESIGN, FABRICATION, AND ERECTION SHALL BE BASED ON:

A. AISC 360 AND SECTION 2205.2 OF THE INTERNATIONAL BUILDING CODE.
B. APRIL 14, 2010 AISC CODE OF STANDARD PRACTICE FOR STEEL BUILDINGS AND BRIDGES AMENDED AS FOLLOWS: AS NOTED IN THE CONTRACT DOCUMENTS, BY THE DELETION OF PARAGRAPH 4.4.1, AND REVISE REFERENCE FROM "STRUCTURAL DESIGN DRAWINGS" TO "CONTRACT DOCUMENTS" IN PARAGRAPH 3.1.
C. SPECIFICATION FOR STRUCTURAL JOINTS USING ASTM A325 OR A490 BOLTS.

29. STRUCTURAL STEEL SHALL CONFORM TO THE FOLLOWING REQUIREMENTS:

TYPE OF MEMBER	ASTM SPECIFICATION	FY
A. OTHER SHAPES, PLATES, AND RODS	A36	36 KSI
B. OTHER SHAPES AND PLATES (NOTED GRADE 50 ON PLANS)	A572 (GRADE 50)	50 KSI
C. PIPE COLUMNS	A53 (E OR S, GR.B)	35 KSI
D. CONNECTION BOLTS (3/4" ROUND, UNLESS SHOWN OTHERWISE)	A307	

30. ARCHITECTURALLY EXPOSED STRUCTURAL STEEL SHALL CONFORM TO SECTION 10 OF THE AISC CODE OF STANDARD PRACTICE FOR STEEL BUILDINGS AND BRIDGES.

31. ALL STEEL EXPOSED TO THE WEATHER OR IN CONTACT WITH GROUND SHALL BE CORROSION PROTECTED BY GALVANIZATION OR PROVIDED WITH EXTERIOR PAINT SYSTEM, UNLESS OTHERWISE NOTED.

32. SHOP PRIME ALL STEEL EXCEPT:

- A. STEEL ENCASED IN CONCRETE.
- B. SURFACES TO BE WELDED.
- C. CONTACT SURFACES AT HIGH-STRENGTH BOLTS.
- D. MEMBERS TO BE GALVANIZED.
- E. MEMBERS WHICH WILL BE CONCEALED BY INTERIOR FINISHES.
- F. SURFACES TO RECEIVE SPRAYED FIREPROOFING.
- G. SURFACES TO RECEIVE OTHER SPECIAL SHOP PRIMERS.

33. ALL ANCHORS EMBEDDED IN MASONRY OR CONCRETE SHALL BE A307 HEADED BOLTS OR A36 THREADED ROD WITH AN ASTM 563 HEAVY HEX NUT TACK WELDED ON THE EMBEDDED END.

34. ALL WELDING SHALL BE IN CONFORMANCE WITH AISC AND AWS STANDARDS AND SHALL BE PERFORMED BY WABO CERTIFIED WELDERS USING E70XX ELECTRODES. ONLY PREQUALIFIED WELDS (AS DEFINED BY AWS) SHALL BE USED. ALL COMPLETE JOINT PENETRATION GROOVE WELDS SHALL BE MADE WITH A FILLER MATERIAL THAT HAS A MINIMUM CVN TOUGHNESS OF 20 FT-LBS AT -20 DEGREES F AND 40 FT - LBS AT 70 DEGREES F, AS DETERMINED BY AWS CLASSIFICATION OR MANUFACTURER CERTIFICATION.

WOOD

35. FRAMING LUMBER SHALL BE S-DRY, KD, OR MC-19, AND GRADED AND MARKED IN CONFORMANCE WITH WCLIB STANDARD "GRADING RULES FOR WEST COAST LUMBER NO. 17", OR WMPA STANDARD, "WESTERN LUMBER GRADING RULES 2011". FURNISH TO THE FOLLOWING MINIMUM STANDARDS:

JOISTS AND BEAMS	(2X & 3X MEMBERS)	HEM-FIR NO. 2 MINIMUM BASE VALUE, Fb = 850 PSI
	(4X MEMBERS)	DOUGLAS FIR-LARCH NO. 1 MINIMUM BASE VALUE, Fb = 1000 PSI
BEAMS	(INCL. 6X AND LARGER)	DOUGLAS FIR-LARCH NO. 1 MINIMUM BASE VALUE, Fb = 1350 PSI
POSTS	(4X MEMBERS)	DOUGLAS FIR-LARCH NO. 2 MINIMUM BASE VALUE, Fc = 1350 PSI
	(6X AND LARGER)	DOUGLAS FIR-LARCH NO. 1 MINIMUM BASE VALUE, Fc = 1000 PSI
STUDS, PLATES & MISC. FRAMING:		DOUGLAS-FIR-LARCH OR HEM-FIR NO. 2

36. LOG MEMBERS SHALL BE GRADED AND MARKED IN ACCORDANCE WITH ASTM D3957. THE GRADE MARK OF AN APPROVED LUMBER GRADING OR INSPECTION AGENCY SHALL IDENTIFY LOG MEMBERS OR A CERTIFICATE OF INSPECTION MUST ACCOMPANY THE LOG MEMBERS TO SPECIES AND GRADE ISSUED BY AN APPROVED LUMBER GRADING OR INSPECTION AGENCY.

37. PLYWOOD SHEATHING SHALL BE GRADE C-D, EXTERIOR GLUE OR STRUCTURAL II, EXTERIOR GLUE IN CONFORMANCE WITH DOC PS 1 OR PS 2. ORIENTED STRAND BOARD OF EQUIVALENT THICKNESS, EXPOSURE RATING AND PANEL INDEX MAY BE USED IN LIEU OF PLYWOOD.

ROOF SHEATHING SHALL BE 1/2" (NOMINAL) WITH SPAN RATING 32/16.

FLOOR SHEATHING SHALL BE 3/4" (NOMINAL) WITH SPAN RATING 48/24.

WALL SHEATHING SHALL BE 1/2" (NOMINAL) WITH SPAN RATING 24/0.

PROVIDE APPROVED PLYWOOD EDGE CLIPS CENTERED BETWEEN JOISTS/TRUSSES AT UNBLOCKED ROOF SHEATHING EDGES. ALL FLOOR SHEATHING EDGES SHALL HAVE APPROVED T&G JOINTS OR SHALL BE SUPPORTED WITH SOLID BLOCKING. ALLOW 1/8" SPACING AT ALL PANEL EDGES AND ENDS OF FLOOR AND ROOF SHEATHING.

REFER TO WOOD FRAMING NOTES BELOW FOR TYPICAL NAILING REQUIREMENTS.

38. TONGUE-AND-GROOVE STRUCTURAL ROOF AND FLOOR DECKING SHALL BE INSTALLED AS FOLLOWS: 2X DECKING SHALL BE TOENAILED THROUGH THE TONGUE AND FACE - NAILED WITH ONE 16d NAIL PER PIECE PER SUPPORT. 3X AND 4X DECKING SHALL BE TOENAILED WITH ONE 40d COMMON NAIL AND FACENAILED WITH ONE 60d COMMON NAIL PER SUPPORT. COURSES SHALL BE SPIKED TOGETHER WITH 8" SPIKES @ 30" O.C. (MAXIMUM) AND @ 10" (MAXIMUM) FROM THE END OF EACH PIECE. SPIKES SHALL BE INSTALLED IN PREDRILLED EDGE HOLES. DECKING SHALL BE PLACED WITH A CONTROLLED RANDOM LAYOUT UNLESS OTHERWISE NOTED AND SHALL EXTEND ACROSS A MINIMUM OF THREE SPANS. EACH PLANK SHALL BEAR ON AT LEAST ONE SUPPORT. ALL JOINTS SHALL BE END MATCHED AND ALL PLANKS NAILED TOGETHER WITHIN ONE FOOT OF EACH SIDE OF THE END JOINT. END JOINTS IN ADJACENT PLANKS SHALL BE AT LEAST TWO FEET APART AND END JOINTS IN ALTERNATE PLANKS SHALL BE MORE THAN ONE FOOT APART WHEN MEASURED ALONG THE LENGTH OF THE DECKING. END JOINTS NOT OCCURRING OVER SUPPORTS SHALL BE MATCHED TONGUED AND GROOVED OR SHALL BE CONNECTED WITH 10 GAUGE METAL SPLINES DRIVEN INTO PRE-CUT SLOTS. TONGUE AND GROOVE JOINTS SHALL BE GLUED WITH CONSTRUCTION ADHESIVE WHERE NOTED ON PLAN.

39. ALL WOOD IN DIRECT CONTACT WITH CONCRETE OR MASONRY SHALL BE PRESSURE-TREATED WITH AN APPROVED PRESERVATIVE OR (2) LAYERS OF ASPHALT IMPREGNATED BUILDING PAPER SHALL BE PROVIDED BETWEEN UNTREATED WOOD AND CONCRETE OR MASONRY.

40. PRESERVATIVE TREATED WOOD SHALL BE TREATED PER AWPA STANDARD U1 TO THE USE CATEGORY EQUAL TO OR HIGHER THAN THE INTENDED APPLICATION. TREATED WOOD FOR ABOVE GROUND USE SHALL BE TREATED TO AWPA UC3B. WOOD IN CONTINUOUS CONTACT WITH FRESH WATER OR SOIL SHALL BE TREATED TO AWPA UC4A. WOOD FOR USE IN PERMANENT FOUNDATIONS SHALL BE TREATED TO AWPA UC4B.

41. WOOD TREATED FOR FIRE RESISTANCE SHALL MEET THE REQUIREMENTS OF ASTM E 84 OR UL 723 AND HAVE A LISTED FLAME SPREAD INDEX OF 25 OR LESS. FIRE RETARDANT TREATED LUMBER AND WOOD STRUCTURAL PANELS SHALL BE LABELED IN ACCORDANCE WITH IBC 2303.2.4. WOOD TREATED FOR FIRE PROTECTION FOR USE IN INTERIOR ABOVE GROUND CONSTRUCTION AND CONTINUOUSLY PROTECTED FROM WEATHER AND OTHER SOURCES OF MOISTURE SHALL BE TREATED TO AWPA UCFA. WOOD TREATED FOR FIRE PROTECTION FOR USE IN EXTERIOR ABOVE GROUND CONSTRUCTION AND SUBJECT TO WETTING OR OTHER SOURCES OF MOISTURE SHALL BE TREATED TO AWPA UCFB.

42. FASTENERS AND TIMBER CONNECTORS USED WITH TREATED WOOD SHALL HAVE CORROSION RESISTANCE AS INDICATED IN THE FOLLOWING TABLE, UNLESS OTHERWISE NOTED.

WOOD TREATMENT	CONDITION	PROTECTION
HAS NO AMMONIA CARRIER	INTERIOR DRY	G90 GALVANIZED
CONTAINS AMMONIA CARRIER	INTERIOR DRY	G185 OR A185 HOT DIPPED OR CONTINUOUS HOT-GALVANIZED PER ASTM A653
CONTAINS AMMONIA CARRIER	INTERIOR WET	TYPE 304 OR 316 STAINLESS
CONTAINS AMMONIA CARRIER	EXTERIOR	TYPE 304 OR 316 STAINLESS
AZCA	ANY	TYPE 304 OR 316 STAINLESS

INTERIOR DRY CONDITIONS SHALL HAVE WOOD MOISTURE CONTENT LESS THAN 19%. WOOD MOISTURE CONTENT IN OTHER CONDITIONS (INTERIOR WET, EXTERIOR WET, AND EXTERIOR DRY) IS EXPECTED TO EXCEED 19%. CONNECTORS AND THEIR FASTENERS SHALL BE THE SAME MATERIAL. COMPLY WITH THE TREATMENT MANUFACTURERS RECOMMENDATIONS FOR PROTECTION OF METAL.

43. TIMBER CONNECTORS CALLED OUT BY LETTERS AND NUMBERS SHALL BE "STRONG-TIE" BY SIMPSON COMPANY, AS SPECIFIED IN THEIR CATALOG NUMBER C-C-2017. EQUIVALENT DEVICES BY OTHER MANUFACTURERS MAY BE SUBSTITUTED, PROVIDED THEY HAVE ICC-ES APPROVAL FOR EQUAL OR GREATER LOAD CAPACITIES. PROVIDE NUMBER AND SIZE OF FASTENERS AS SPECIFIED BY MANUFACTURER FOR MAXIMUM LOAD CARRYING CAPACITY. CONNECTORS SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.

WHERE CONNECTOR STRAPS CONNECT TWO MEMBERS, PLACE ONE-HALF OF THE NAILS OR BOLTS IN EACH MEMBER.

ALL SHIMS SHALL BE SEASONED AND DRIED AND THE SAME GRADE (MINIMUM)AS MEMBERS CONNECTED.

44. WOOD FASTENERS

A. NAIL SIZES SPECIFIED ON DRAWINGS ARE BASED ON THE FOLLOWING SPECIFICATIONS:

SIZE	LENGTH	DIAMETER
6d	2"	0.113"
8d	2-1/2"	0.131"
10d	3"	0.148"
12d	3-1/4"	0.148"
16d BOX	3-1/2"	0.135"

IF CONTRACTOR PROPOSES THE USE OF ALTERNATE NAILS, THEY SHALL SUBMIT NAIL SPECIFICATIONS TO THE STRUCTURAL ENGINEER (PRIOR TO CONSTRUCTION) FOR REVIEW AND APPROVAL.

NAILS - PLYWOOD (APA RATED SHEATHING) FASTENERS TO FRAMING SHALL BE DRIVEN FLUSH TO FACE OF SHEATHING WITH NO COUNTERSINKING PERMITTED. TOE-NAILS SHALL BE DRIVEN AT AN ANGLE OF 30 DEGREES WITH THE MEMBER AND STARTED 1/3 THE LENGTH OF THE NAIL FROM THE MEMBER END.

B. ALL BOLTS IN WOOD MEMBERS SHALL CONFORM TO ASTM A307. PROVIDE WASHERS UNDER THE HEADS AND NUTS OF ALL BOLTS AND LAG BOLTS BEARING ON WOOD. INSTALLATION OF LAG BOLTS SHALL CONFORM TO THE NATIONAL DESIGN SPECIFICATION FOR WOOD CONSTRUCTION WITH A LEAD BORE HOLE OF 60 TO 70 PERCENT OF THE SHANK DIAMETER. LEAD HOLES ARE NOT REQUIRED FOR 3/8" AND SMALLER LAG SCREWS.

45. NOTCHES AND HOLES IN WOOD FRAMING:

A. NOTCHES ON THE ENDS OF SOLID SAWN JOISTS AND RAFTERS SHALL NOT EXCEED ONE-FOURTH THE JOIST DEPTH. NOTCHES IN THE TOP OR BOTTOM OF SOLID SAWN JOISTS SHALL NOT EXCEED ONE-SIXTH THE DEPTH AND SHALL NOT BE LOCATED IN THE MIDDLE THIRD OF THE SPAN. HOLES BORED IN SOLID SAWN JOISTS AND RAFTERS SHALL NOT BE WITHIN 2 INCHES OF THE TOP OR BOTTOM OF THE JOIST, AND THE DIAMETER OF ANY SUCH HOLE SHALL NOT EXCEED ONE-THIRD THE DEPTH OF THE JOIST.

46. WOOD FRAMING NOTES--THE FOLLOWING APPLY UNLESS OTHERWISE SHOWN ON THE PLANS:

A. ALL WOOD FRAMING DETAILS NOT SHOWN OTHERWISE SHALL BE CONSTRUCTED TO THE MINIMUM STANDARDS OF THE INTERNATIONAL BUILDING CODE, THE AITC "TIMBER CONSTRUCTION MANUAL" AND THE AF&PA "NATIONAL DESIGN SPECIFICATION FOR WOOD CONSTRUCTION". MINIMUM NAILING, UNLESS OTHERWISE NOTED, SHALL CONFORM TO IBC TABLE 2304.10.1. COORDINATE THE SIZE AND LOCATION OF ALL OPENINGS WITH MECHANICAL AND ARCHITECTURAL DRAWINGS.

APPROVED FOR CONSTRUCTION

RECORD DRAWINGS

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REVISIONS					
REV	DATE	BY	APP'D	DESCRIPTION	

DESIGNED BY: LSD
DRAWN BY: NHD
CHECKED BY: BDM
APPROVED BY: DJS

SCALE:
DATE: August 2020

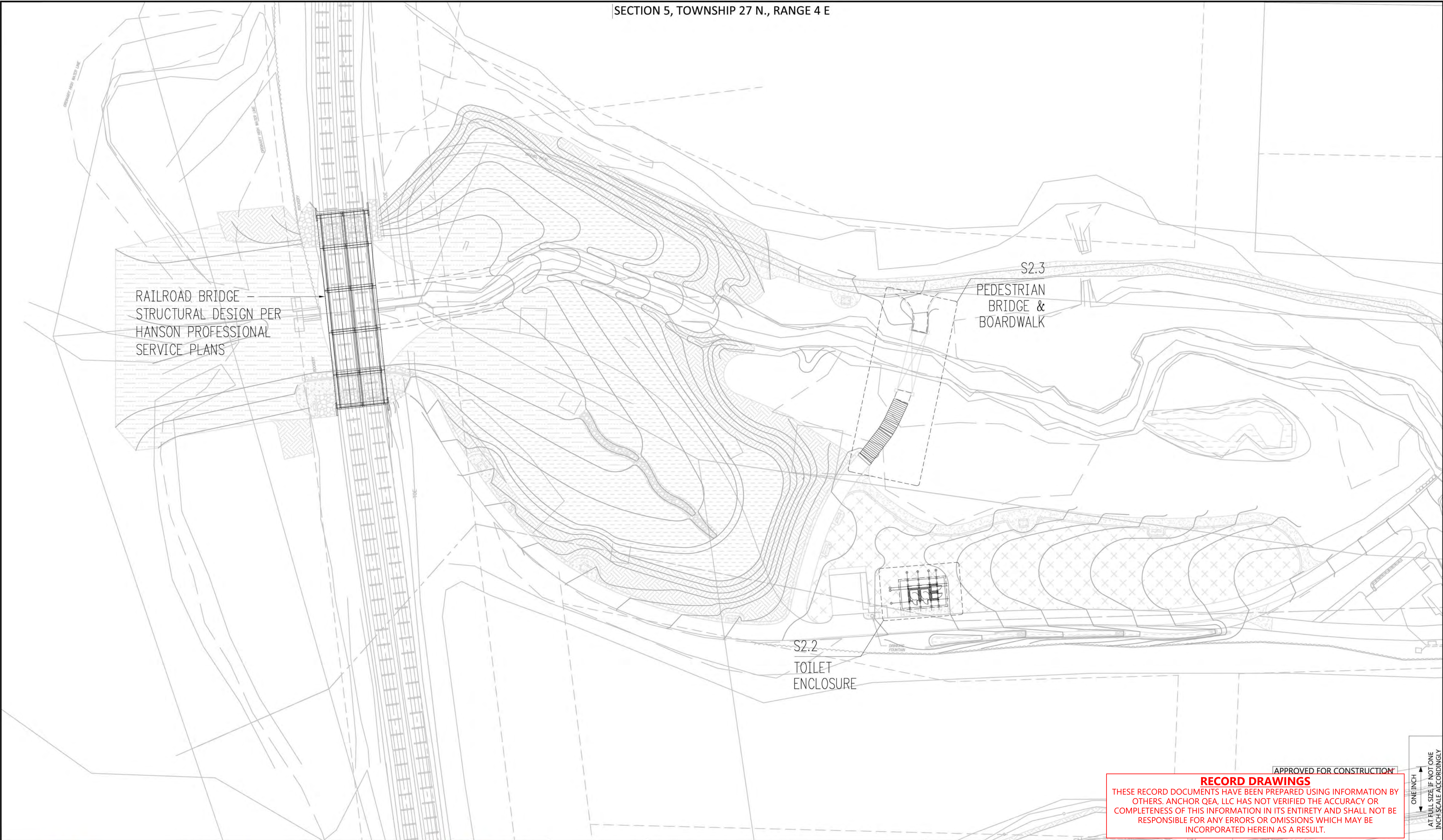
MEADOWDALE BEACH PARK
AND ESTUARY DESIGN
PFN 19-103913LDA

GENERAL STRUCTURAL NOTES

S1.2

SHEET # 56 OF 81

ONE INCH
AT FULL SIZE, IF NOT ONE
INCH SCALE ACCORDINGLY



REVISIONS				
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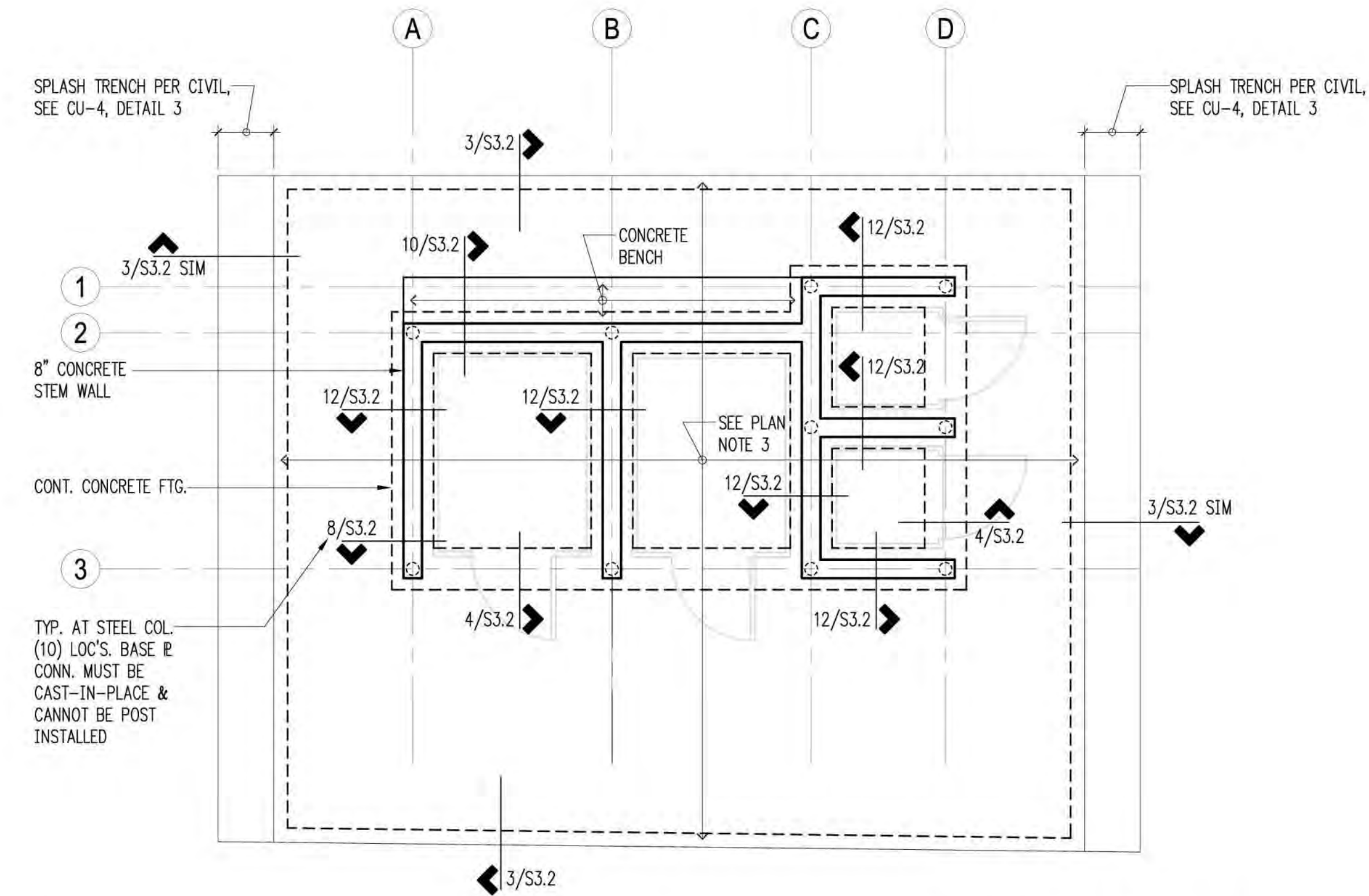
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APPROVED BY: DJS
SCALE: 1" = 30'
DATE: August 2020

MEADOWDALE BEACH PARK
AND ESTUARY DESIGN
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STRUCTURAL OVERVIEW SITE PLAN

S2.1

SHEET # 57 OF 81



Plan Notes

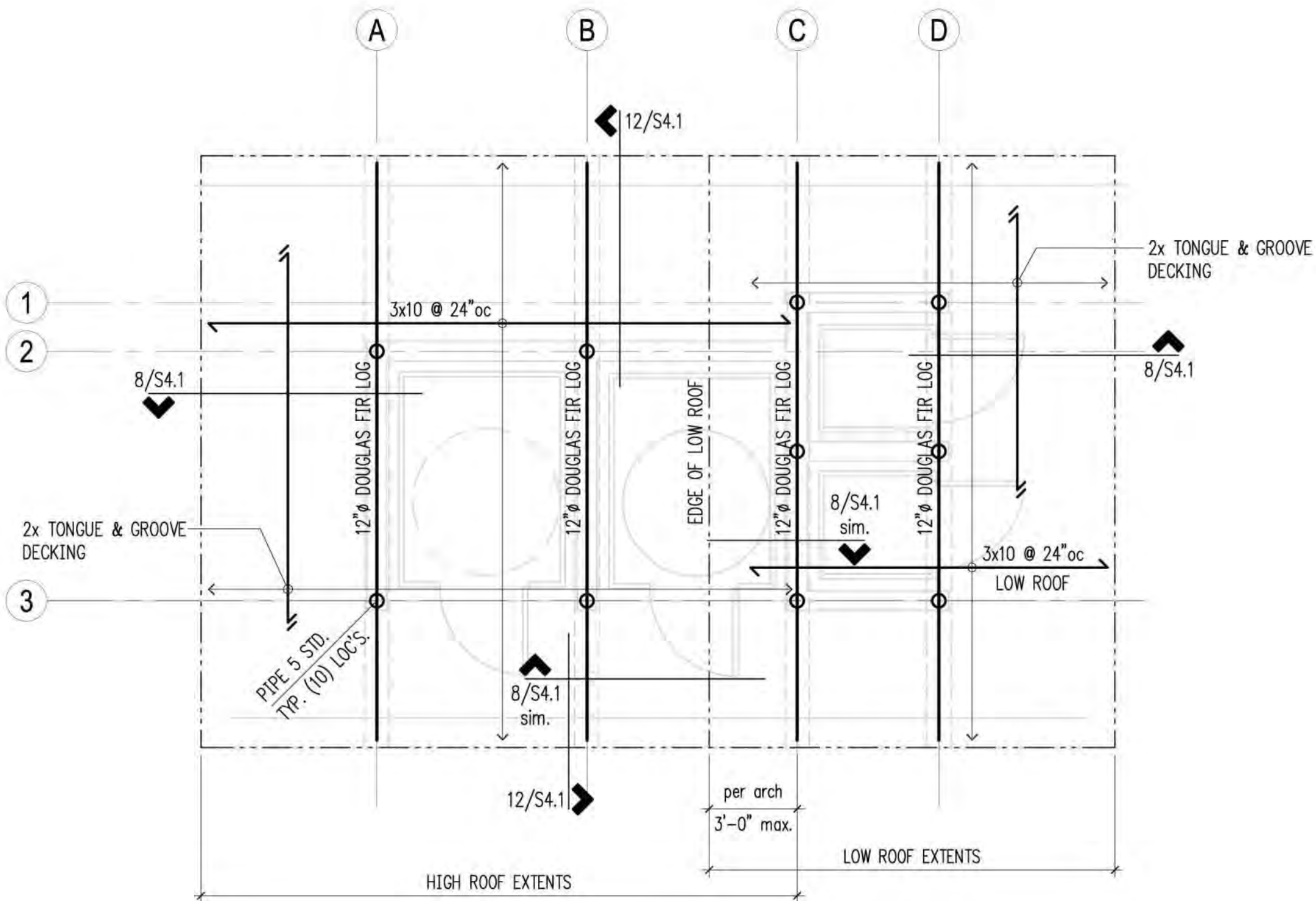
1. DO NOT SCALE DRAWINGS. REFER TO ARCHITECTURAL DRAWINGS FOR ALL DIMENSIONS.
2. THE BOTTOM OF ALL FOOTINGS SHALL BE 24" MINIMUM BELOW EXTERIOR GRADE.
3. EXTERIOR SLABS ON GRADE SHALL BE 4" MINIMUM THICKNESS. REINFORCE WITH #3 AT 16" O.C. CENTERED IN SLAB. BELOW SLAB PROVIDE 12" MINIMUM FREE DRAINING GRAVEL OVER FIRM NATIVE SOILS OR STRUCTURAL FILL. SEE 8/S3.1 FOR "TYPICAL SLAB JOINTS" DETAIL.
4. REFER TO S3.1 FOR TYPICAL CONCRETE DETAILS.
5. REFER TO GENERAL STRUCTURAL NOTES FOR ADDITIONAL REQUIREMENTS.

Legend

- STEM WALL & FOOTING
- EXTENTS
- STEEL PIPE COLUMN ABOVE

Foundation Plan

Scale: 1/4" = 1'-0"



Plan Notes

1. DO NOT SCALE DRAWINGS. REFER TO ARCHITECTURAL DRAWINGS FOR ALL DIMENSIONS.
2. TYPICAL ROOF FRAMING CONSISTS OF ROOFING PER ARCHITECTURAL DRAWINGS OVER 1/2" CDX APA RATED SHEATHING (EXPOSURE 1) OVER 2x TONGUE AND GROOVE DECKING. FACE GRAIN OF PLYWOOD SHEATHING TO BE PERPENDICULAR TO 2x DECKING, U.N.O.
3. NAIL ROOF SHEATHING WITH 8d AT 6" oc AT ALL FRAMED PANEL EDGES AND AT 12" oc FIELD.
4. ALL POSTS SHALL BEAR FULLY ON BEAMS OR POSTS BELOW AND SHALL HAVE FULL CONTINUOUS BEARING THROUGH FLOORS TO FOUNDATION.
5. REFER TO GENERAL STRUCTURAL NOTES FOR ADDITIONAL REQUIREMENTS.

Legend

- SPAN & DIRECTION OF FRAMING
- EXTENTS OF FRAMING
- HEADER/BREAM PER PLAN
- STEEL PIPE COLUMN PER PLAN

Roof Framing Plan

Scale: 1/4" = 1'-0"



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RECORD DRAWINGS
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REVISIONS				
REV	DATE	BY	APP'D	DESCRIPTION

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APPROVED BY: DJS
SCALE: 1/4" = 1'-0"
DATE: August 2020

MEADOWDALE BEACH PARK
AND ESTUARY DESIGN
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TOILET ENCLOSURE STRUCTURAL PLANS

S2.2

SHEET # 58 OF 81

ONE INCH
AT FULL SIZE, IF NOT ONE
INCH SCALE ACCORDINGLY

Plan Notes

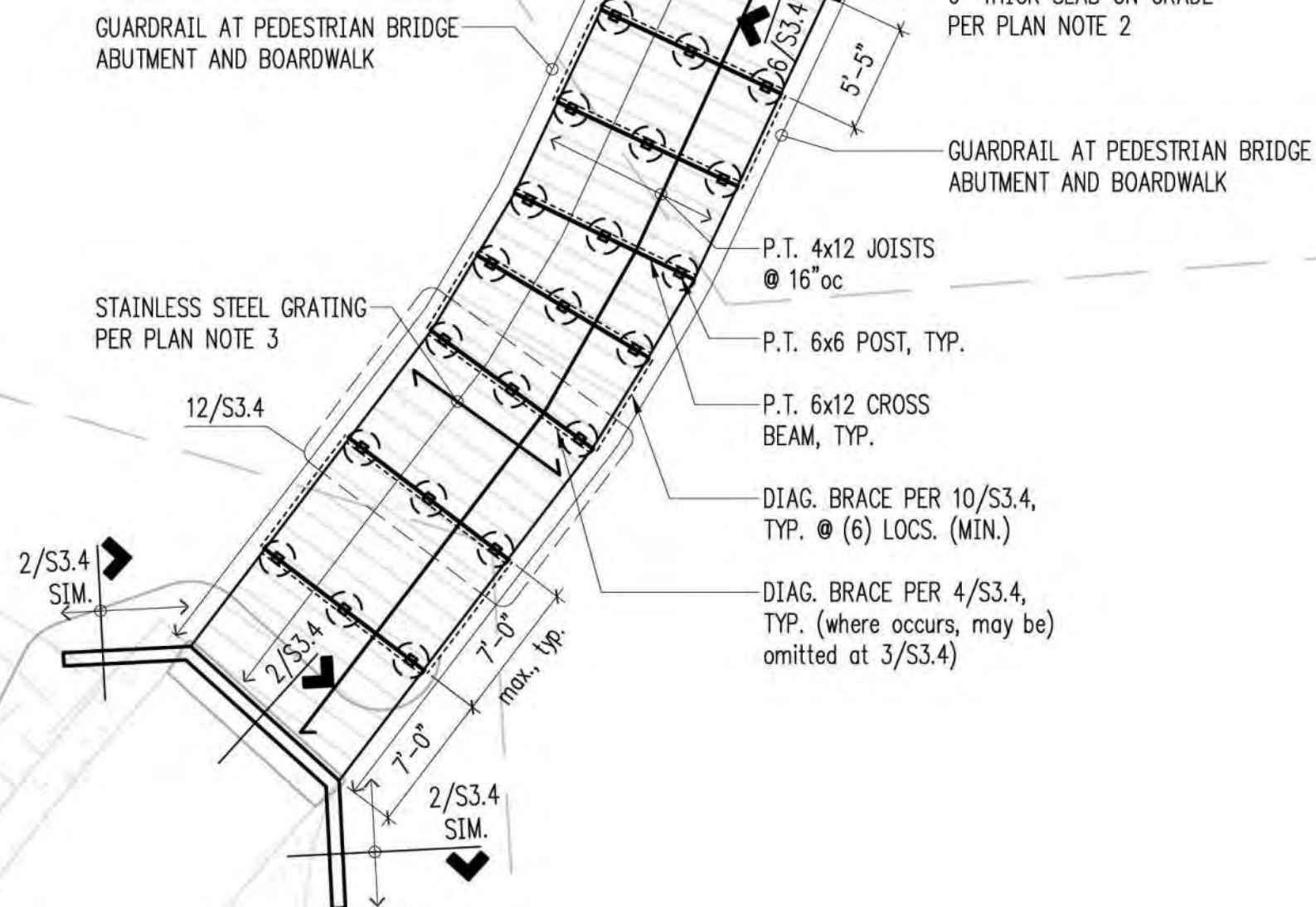
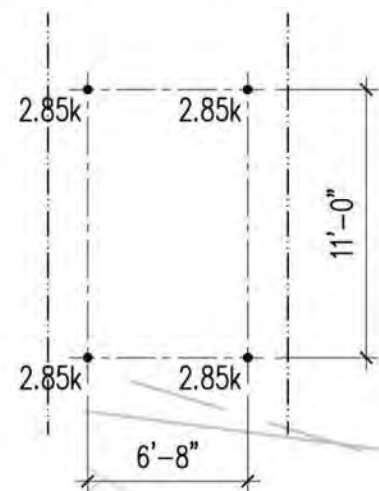
- DO NOT SCALE DRAWINGS. REFER TO SHEET CV-1 FOR HORIZONTAL LAYOUT INFORMATION.
- EXTERIOR SLABS ON GRADE SHALL BE 6" MINIMUM THICKNESS. REINFORCE WITH #4 AT 10" O.C. EACH WAY BOTTOM. BELOW SLAB PROVIDE 12" MINIMUM FREE DRAINING GRAVEL OVER FIRM NATIVE SOILS OR STRUCTURAL FILL. SEE 8/S3.2 FOR 'TYPICAL SLAB JOINTS' DETAIL.
- 1 1/4" x 1/8" STAINLESS STEEL GRATING MCNICHOLS GCM-1-125-A OR EQUIVALENT PER BOARDWALK SPECIFICATION 06 11 10. ATTACH TO JOISTS PER MANUFACTURER'S RECOMMENDATIONS.
- REFER TO GENERAL STRUCTURAL NOTES FOR ADDITIONAL REQUIREMENTS.

Legend

- RETAINING WALL
- SPAN DIRECTION
- EXTENTS
- HEADER/BEAM PER PLAN

Load Map at Boardwalk

- BOARDWALK HAS BEEN DESIGNED TO ACCOMMODATE A MAINTENANCE PICKUP TRUCK PER THE LIVE LOAD NOTED BELOW. POINT LOADS DO NOT OCCUR SIMULTANEOUSLY WITH OTHER LIVE LOADING.



Pedestrian Bridge Abutment and Boardwalk - Above Grade Plan

Scale: 1/8" = 1'-0"



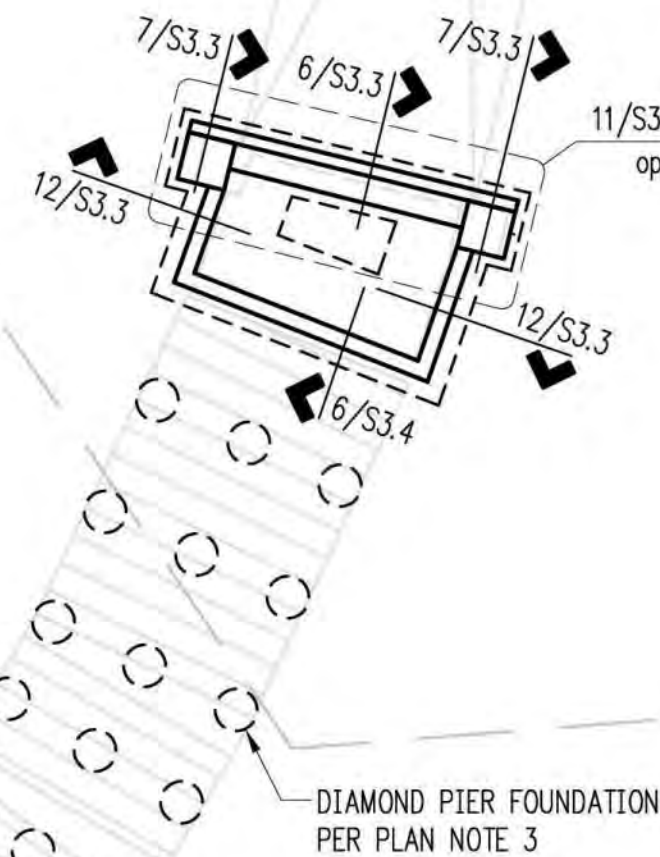
Foundation Plan Notes

- DO NOT SCALE DRAWINGS. REFER TO SHEET CV-1 FOR HORIZONTAL LAYOUT INFORMATION.
- THE BOTTOM OF ALL EXTERIOR FOOTINGS SHALL BE 2'-0" MINIMUM BELOW EXTERIOR GRADE. BOTTOM OF FOOTINGS TO ALIGN WITH BOTTOM OF ADJACENT FOOTINGS.
- DIAMOND PIER FOUNDATION PER MANUFACTURER. EACH DIAMOND PIER FOUNDATION SHALL SUPPORT THE MINIMUM ALLOWABLE LOADS:
 - DEAD LOAD = 1350#
 - LIVE LOAD = 2850#
 - SNOW LOAD = 1250#
 - SEISMIC = +/- 950# (COMPRESSION / TENSION); = +/- 1350# (SHEAR)
- REFER TO GENERAL STRUCTURAL NOTES FOR ADDITIONAL REQUIREMENTS.

Legend

- STEM WALL & FOOTING
- DIAMOND PIER FOUNDATION

CURVED SECTION OF WALL WAS CONSTRUCTED STRAIGHT, AFFECTING LAYOUT OF FOOTING, WALL, AND HANDRAIL. DESIGN END POINTS OF WALL WERE MAINTAINED AND STRAIGHT CORDS WERE RUN BETWEEN THEM.



Pedestrian Bridge Abutment and Boardwalk - Foundation Plan

Scale: 1/8" = 1'-0"



APPROVED FOR CONSTRUCTION

RECORD DRAWINGS

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REVISIONS				
REV	DATE	BY	APP'D	DESCRIPTION
1	10/15/23	MJR		RECORD DWGS

DESIGNED BY: LSD
DRAWN BY: NHD
CHECKED BY: BDM
APPROVED BY: DJS
SCALE: 1/8"=1'-0"
DATE: August 2020

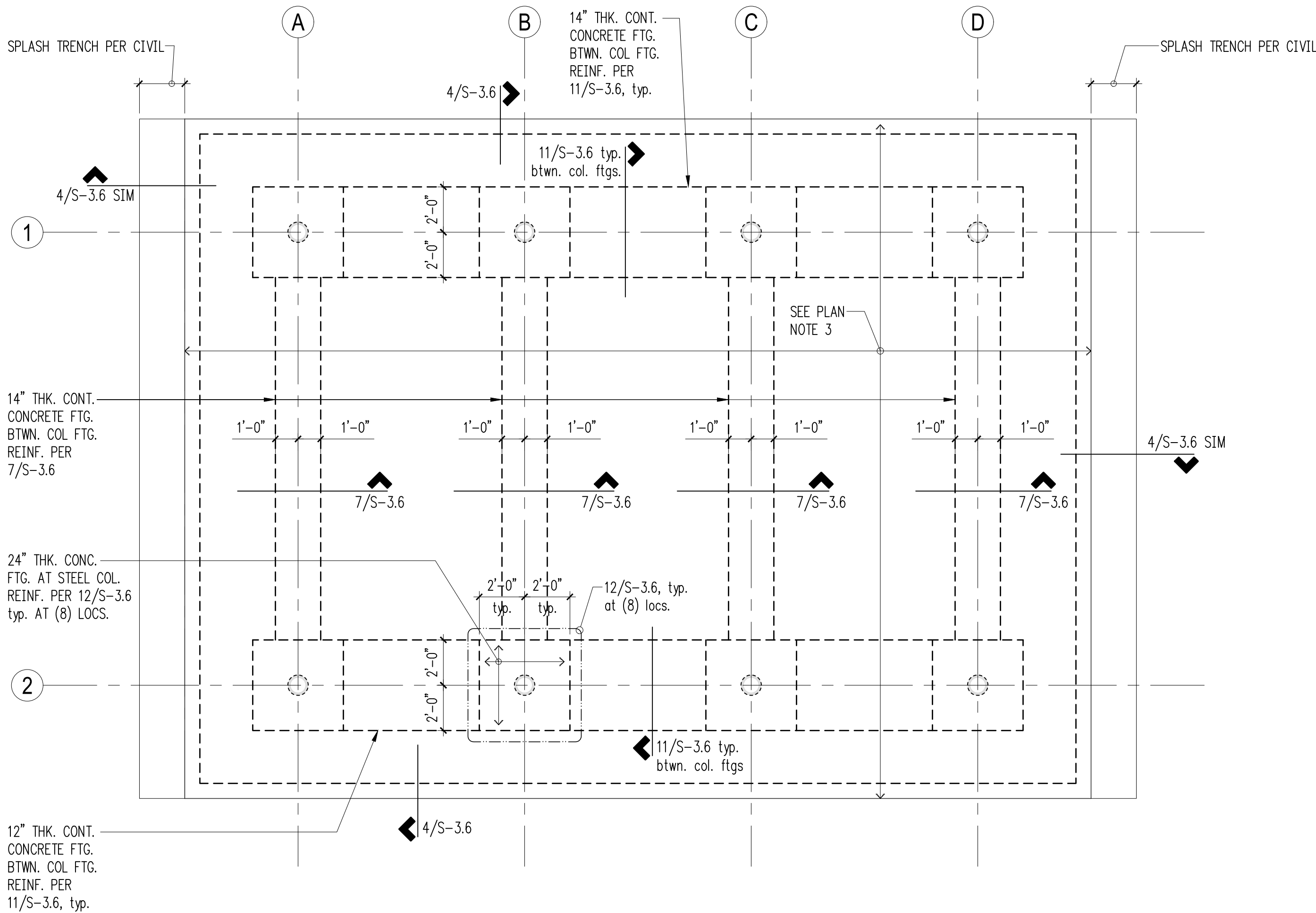
MEADOWDALE BEACH PARK
AND ESTUARY DESIGN
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PEDESTRIAN BRIDGE ABUTMENT AND
BOARDWALK PLANS

S2.3

SHEET # 59 OF 81

ONE INCH
AT FULL SIZE, IF NOT ONE
INCH SCALE ACCORDINGLY



Plan Notes

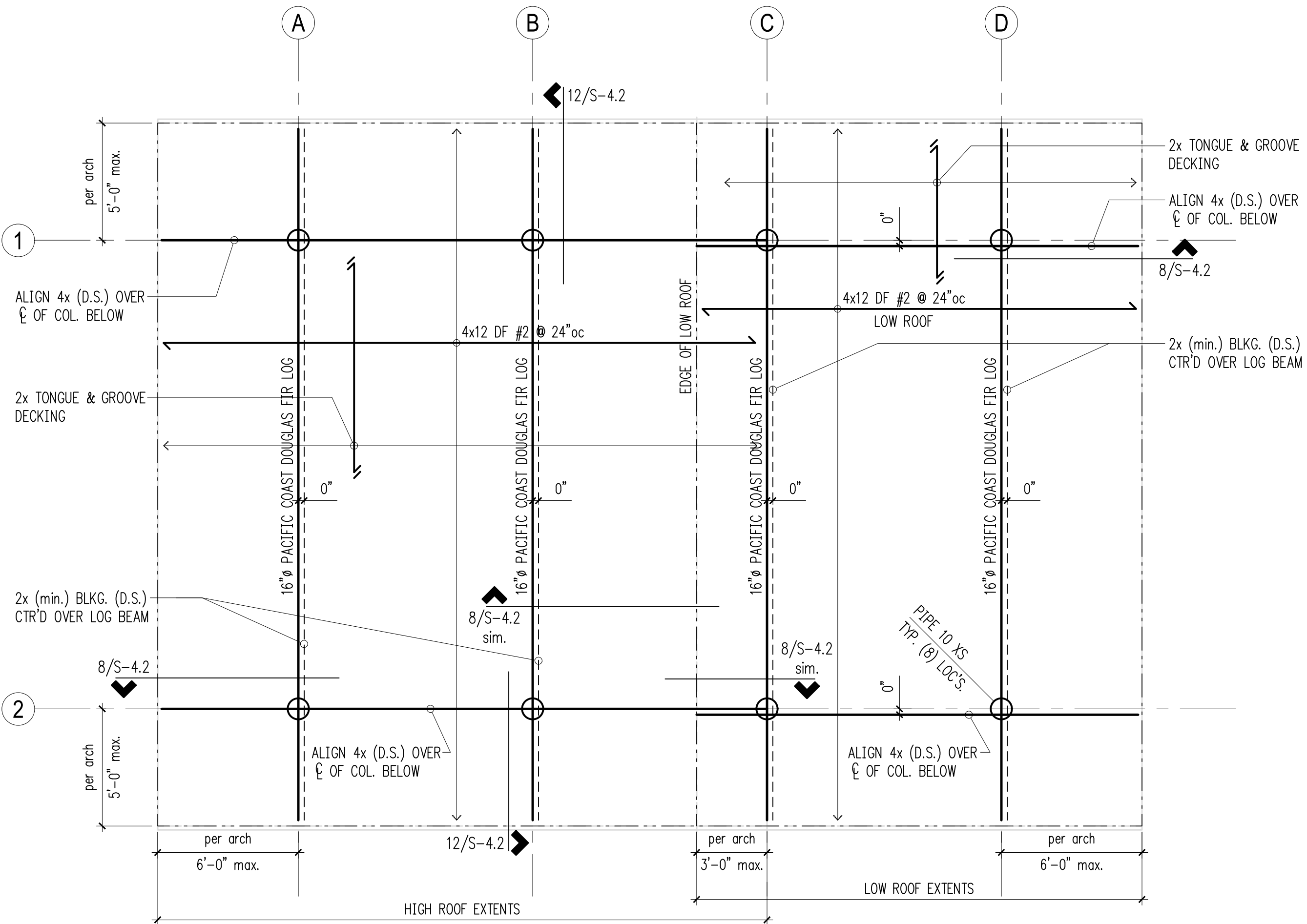
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- 2. THE BOTTOM OF ALL FOOTINGS SHALL BE 24" MINIMUM BELOW EXTERIOR GRADE.
- 3. EXTERIOR SLABS ON GRADE SHALL BE 4" MINIMUM THICKNESS. REINFORCE WITH #3 AT 16" O.C. CENTERED IN SLAB. BELOW SLAB PROVIDE 12" MINIMUM FREE DRAINING GRAVEL OVER FIRM NATIVE SOILS OR STRUCTURAL FILL. SEE 8 AND 11/S-3.5 FOR TYPICAL SLAB JOINTS' DETAIL.
- 4. REFER TO S-3.5 FOR TYPICAL CONCRETE DETAILS.
- 5. REFER TO GENERAL STRUCTURAL NOTES FOR ADDITIONAL REQUIREMENTS.

Legend

- STEM WALL & FOOTING
- EXTENTS
- STEEL PIPE COLUMN ABOVE

Foundation Plan

Scale: 1/4" = 1'-0"



Plan Notes

- 1. DO NOT SCALE. DRAWINGS. REFER TO ARCHITECTURAL DRAWINGS FOR ALL DIMENSIONS.
- 2. TYPICAL ROOF FRAMING CONSISTS OF ROOFING PER ARCHITECTURAL DRAWINGS OVER 1/2" CDX APA RATED SHEATHING (EXPOSURE 1) OVER 2x TONGUE AND GROOVE DECKING. FACE GRAIN OF PLYWOOD SHEATHING TO BE PERPENDICULAR TO 2x DECKING, U.N.O.
- 3. NAIL ROOF SHEATHING WITH 8d AT 6" oc AT ALL FRAMED PANEL EDGES AND AT 12" oc FIELD. AT FRAMED PANEL EDGES WHERE THERE IS NO RAFTER OR BLOCKING BELOW, PROVIDE 6d AT 6" oc TO AVOID NAIL EXPOSURE AT UNDERSIDE OF DECKING.
- 4. ALL POSTS SHALL BEAR FULLY ON BEAMS OR POSTS BELOW AND SHALL HAVE FULL CONTINUOUS BEARING THROUGH FLOORS TO FOUNDATION.
- 5. REFER TO GENERAL STRUCTURAL NOTES FOR ADDITIONAL REQUIREMENTS.

Legend

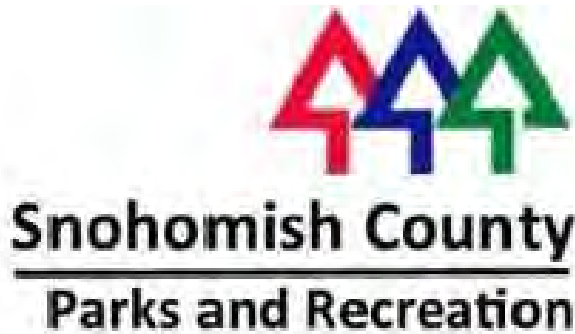
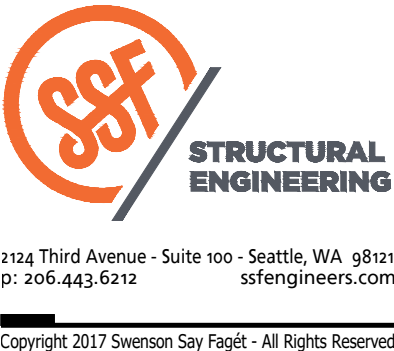
- SPAN & DIRECTION OF FRAMING
- EXTENTS OF FRAMING
- HEADER/BEAM PER PLAN
- STEEL PIPE COLUMN PER PLAN
- (D.S.) ATTACHMENT THRU PLYWOOD & DECKING TO MEMBER: 16d @ 6" oc

Roof Framing Plan

Scale: 1/4" = 1'-0"



APPROVED FOR CONSTRUCTION
RECORD DRAWINGS
THESE RECORD DOCUMENTS HAVE BEEN PREPARED USING INFORMATION BY OTHERS. ANCHOR QEA, LLC HAS NOT VERIFIED THE ACCURACY OR COMPLETENESS OF THIS INFORMATION IN ITS ENTIRETY AND SHALL NOT BE RESPONSIBLE FOR ANY ERRORS OR OMISSIONS WHICH MAY BE INCORPORATED HEREIN AS A RESULT.



REVISIONS				
REV	DATE	BY	APP'D	DESCRIPTION

DESIGNED BY: LSD
DRAWN BY: NHD
CHECKED BY: DJS
APPROVED BY: DJS
SCALE: 1/4" = 1'-0"
DATE: February 2023

**MEADOWDALE BEACH PARK
AND ESTUARY DESIGN
19-103913LDA**

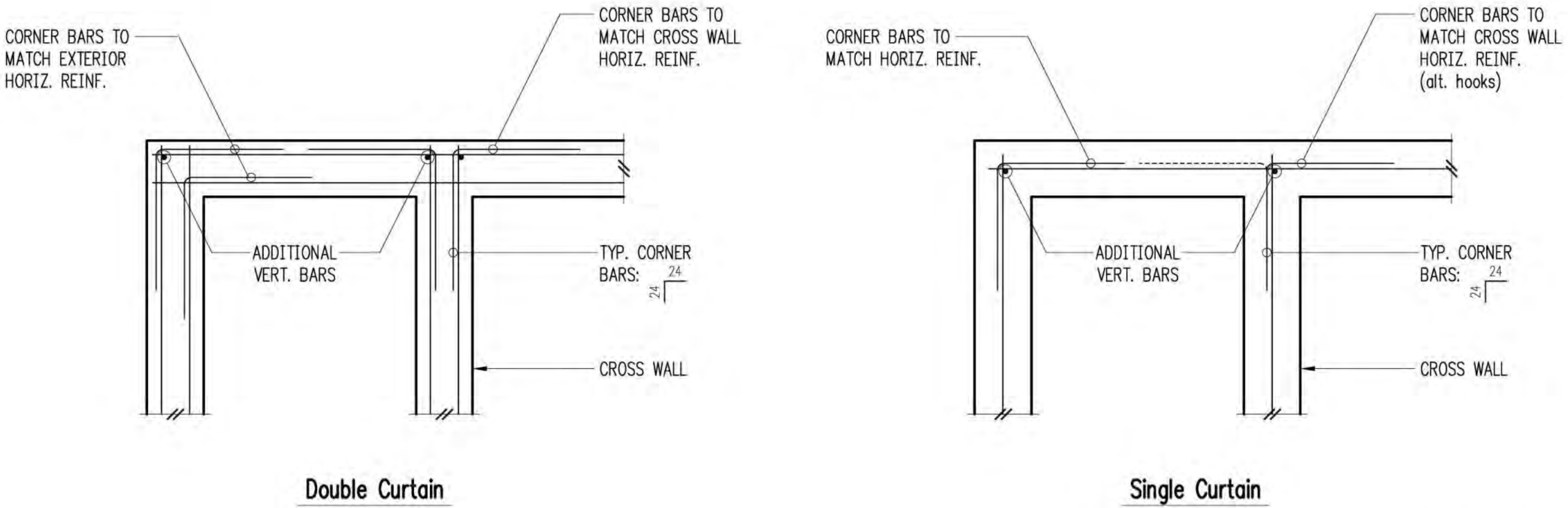
PICNIC SHELTER STRUCTURAL PLANS

S-2.4

SHEET # 10 OF 16

ONE INCH
AT FULL SIZE, IF NOT ONE
INCH SCALE ACCORDINGLY

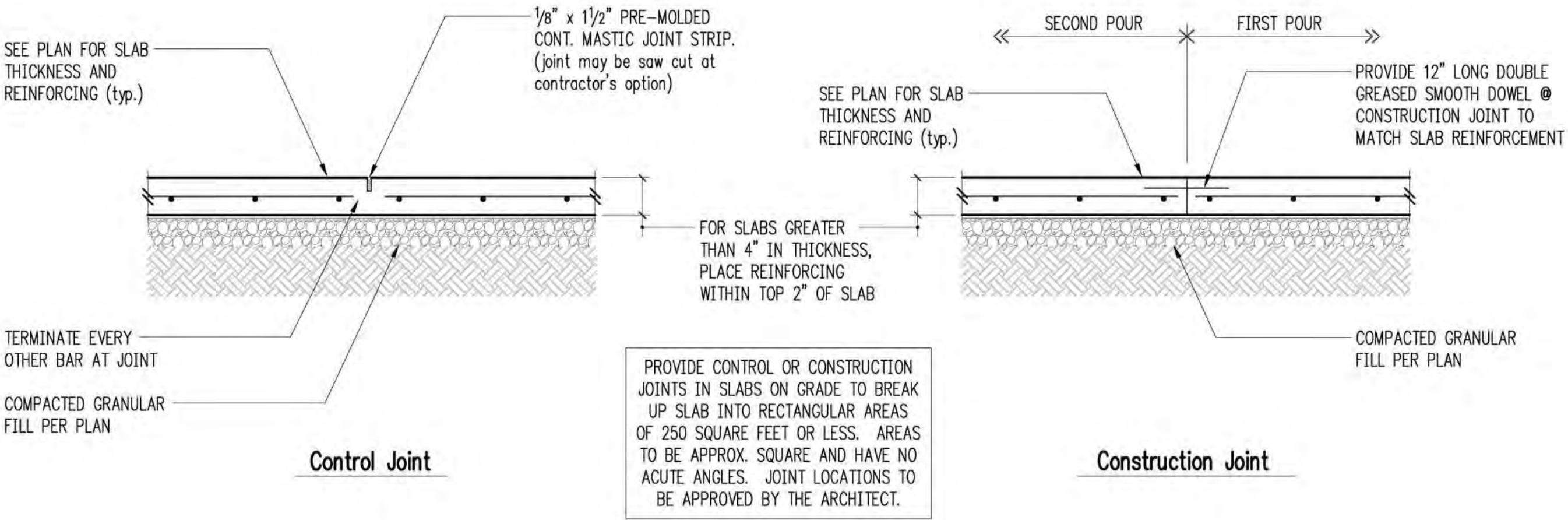
SECTION 5, TOWNSHIP 27 N., RANGE 4 E



Double Curtain

Single Curtain

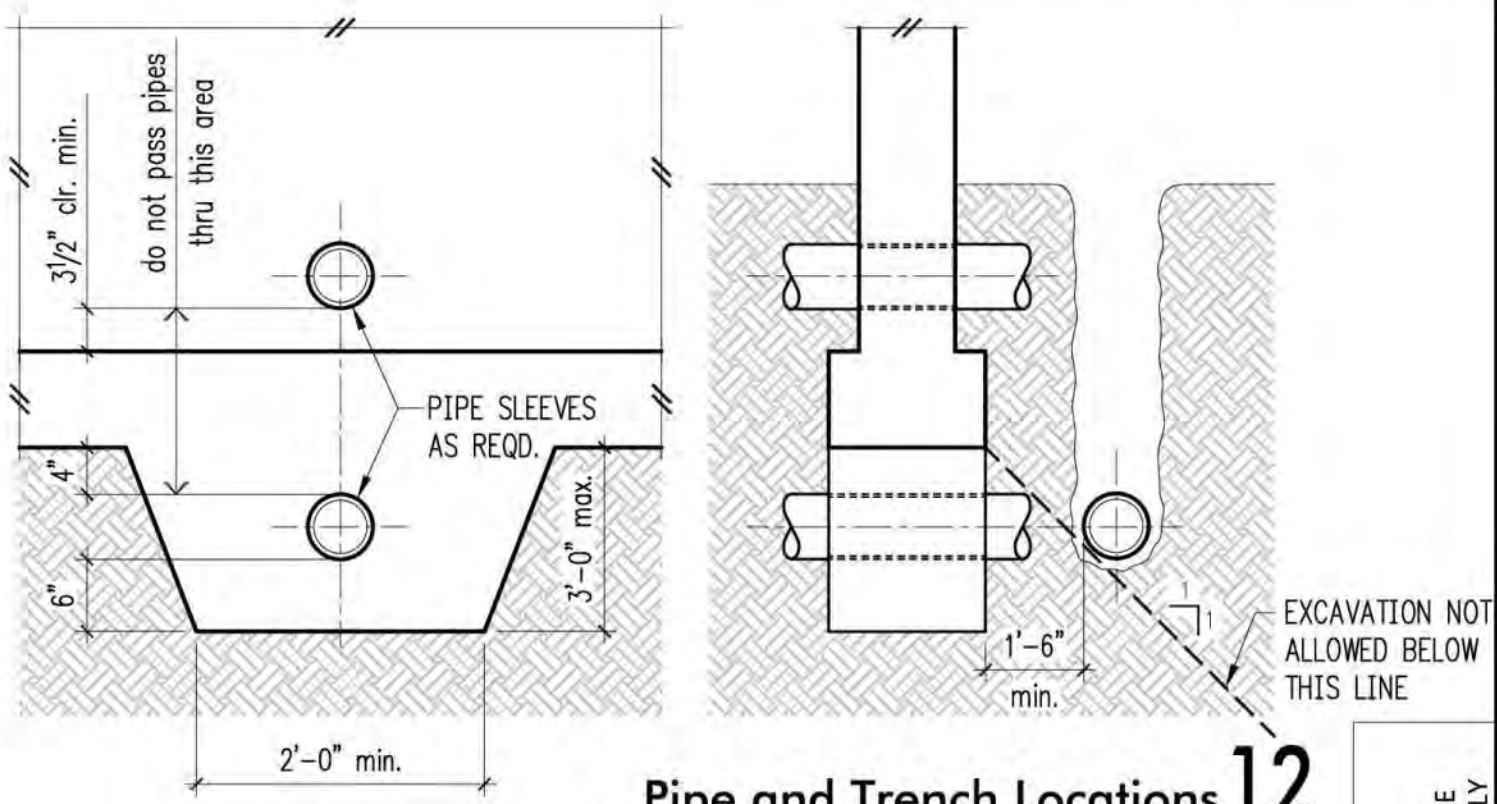
Typical Corner Bars at Concrete Walls and Footings



Control Joint

Construction Joint

Typical Slab Joints



Pipe and Trench Locations

RECORD DRAWINGS
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REVISIONS					DESCRIPTION
REV	DATE	BY	APP'D		

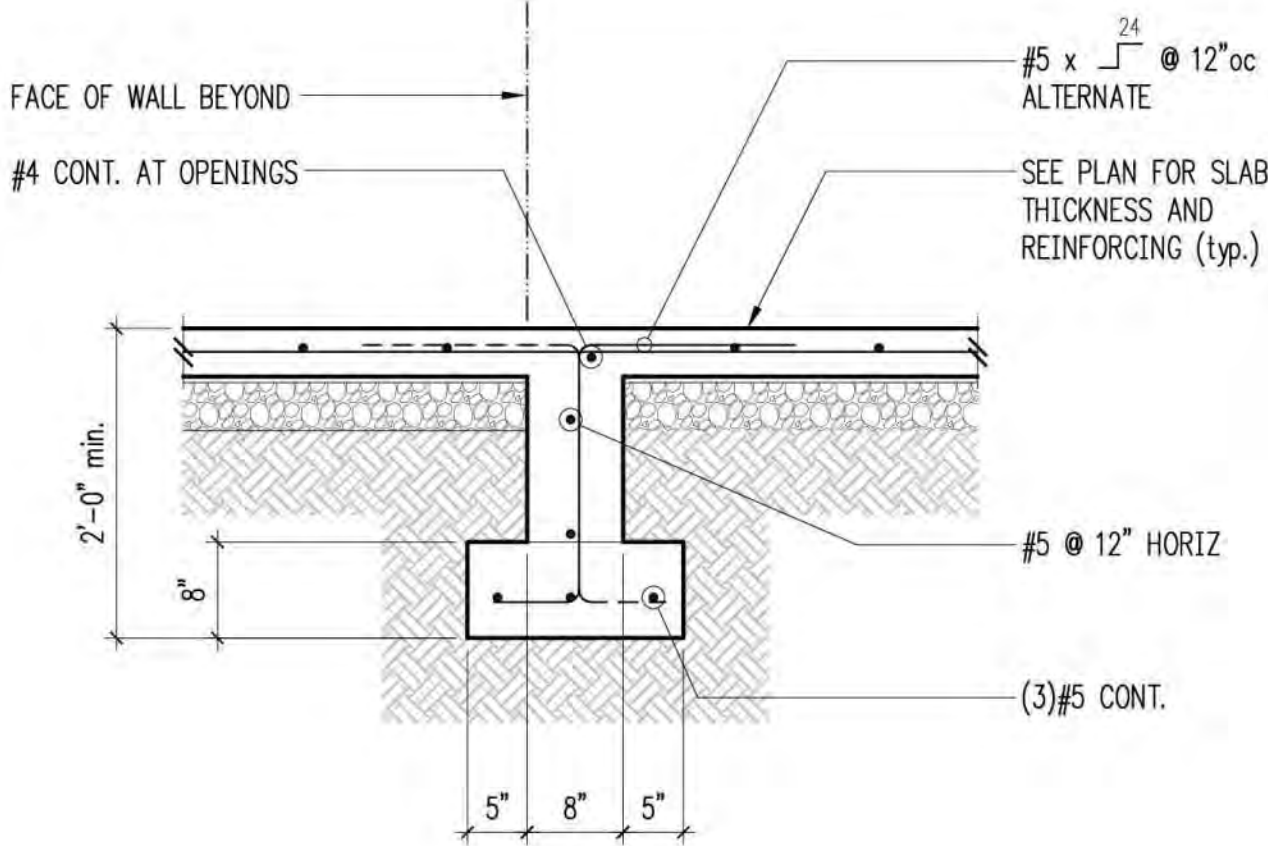
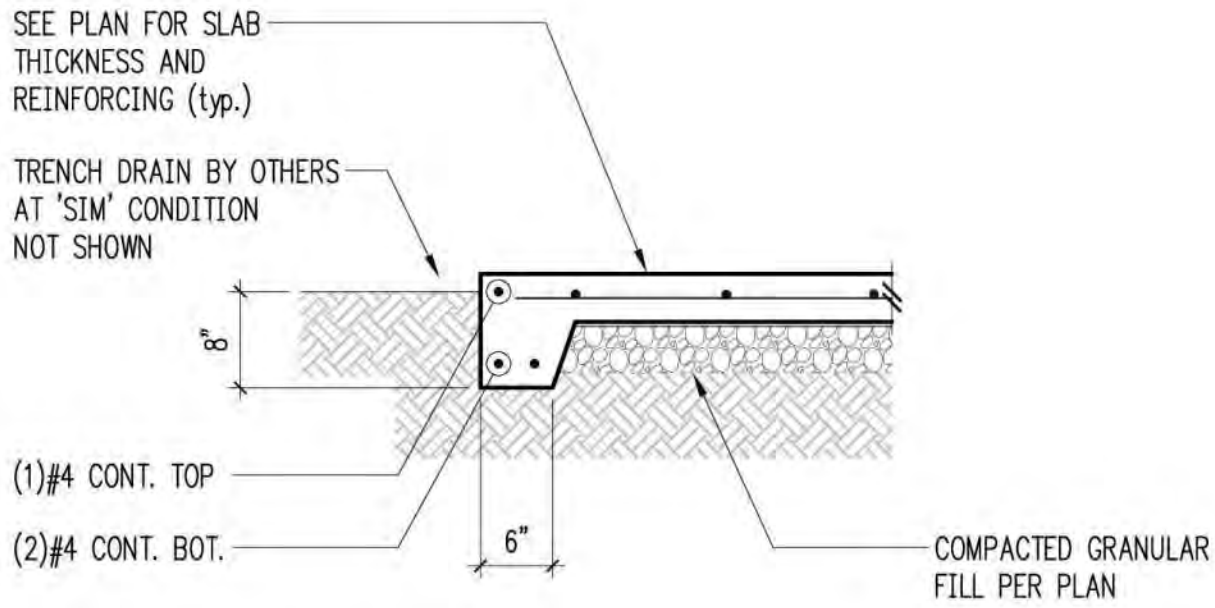
DESIGNED BY: LSD
DRAWN BY: NHD
CHECKED BY: BDM
APPROVED BY: DJS
SCALE: 3/4"=1'-0"
DATE: August 2020

MEADOWDALE BEACH PARK
AND ESTUARY DESIGN
PFN 19-103913LDA
TOILET ENCLOSURE STRUCTURAL
TYPICAL CONCRETE DETAILS

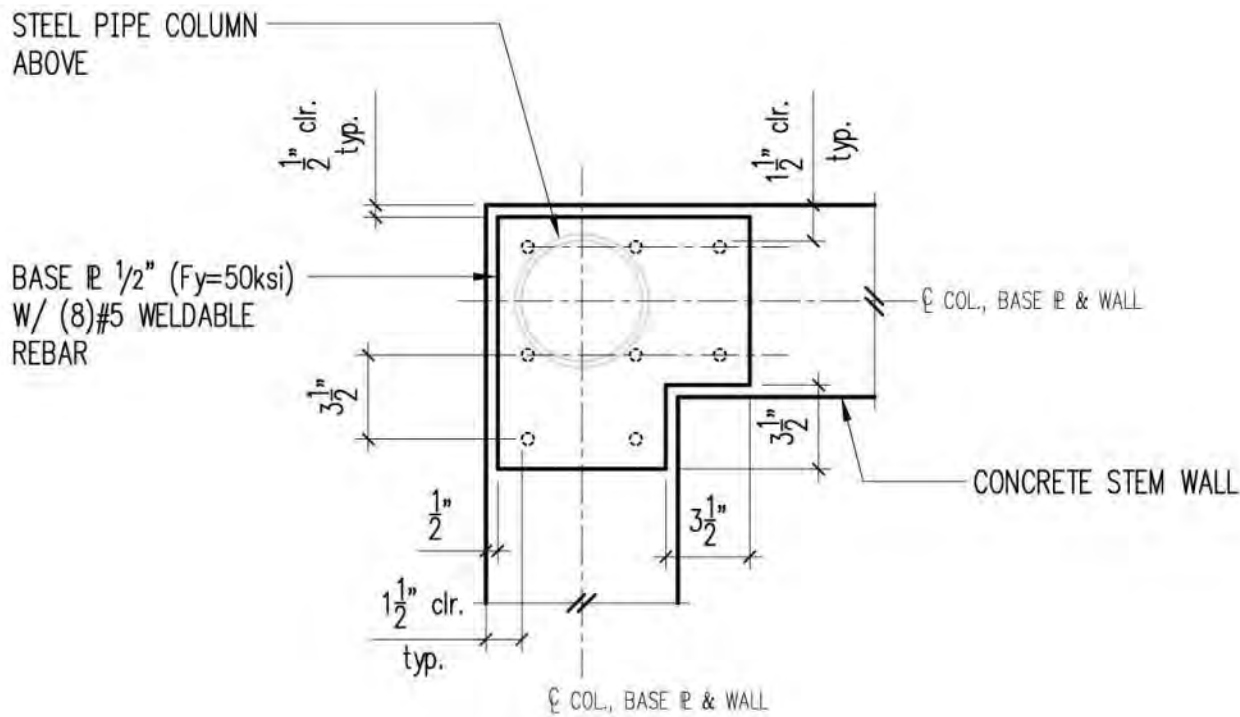
S3.1

SHEET # 60 OF 81

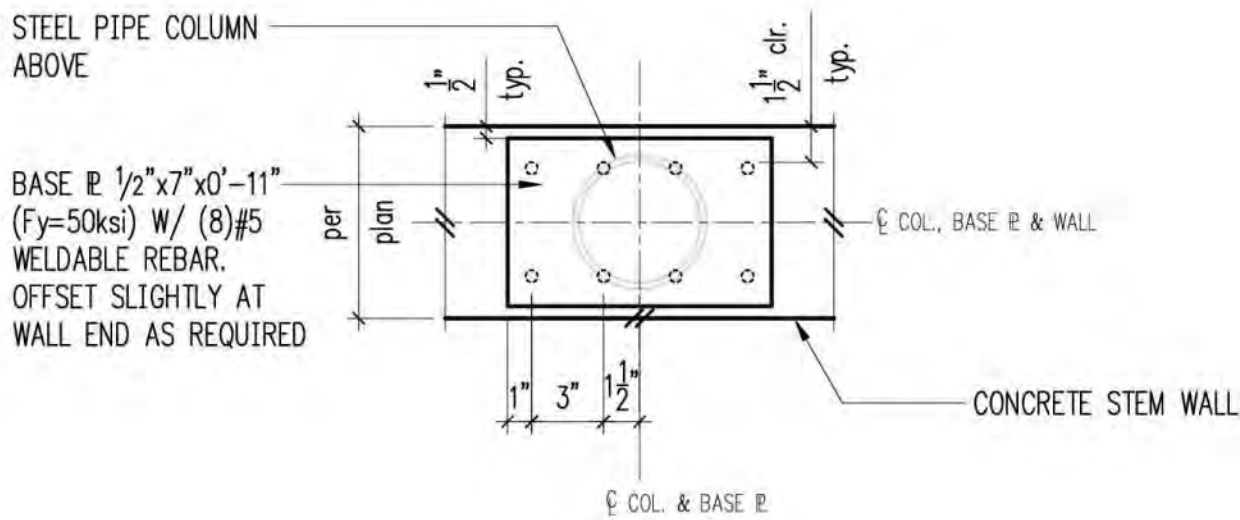
SECTION 5, TOWNSHIP 27 N., RANGE 4 E



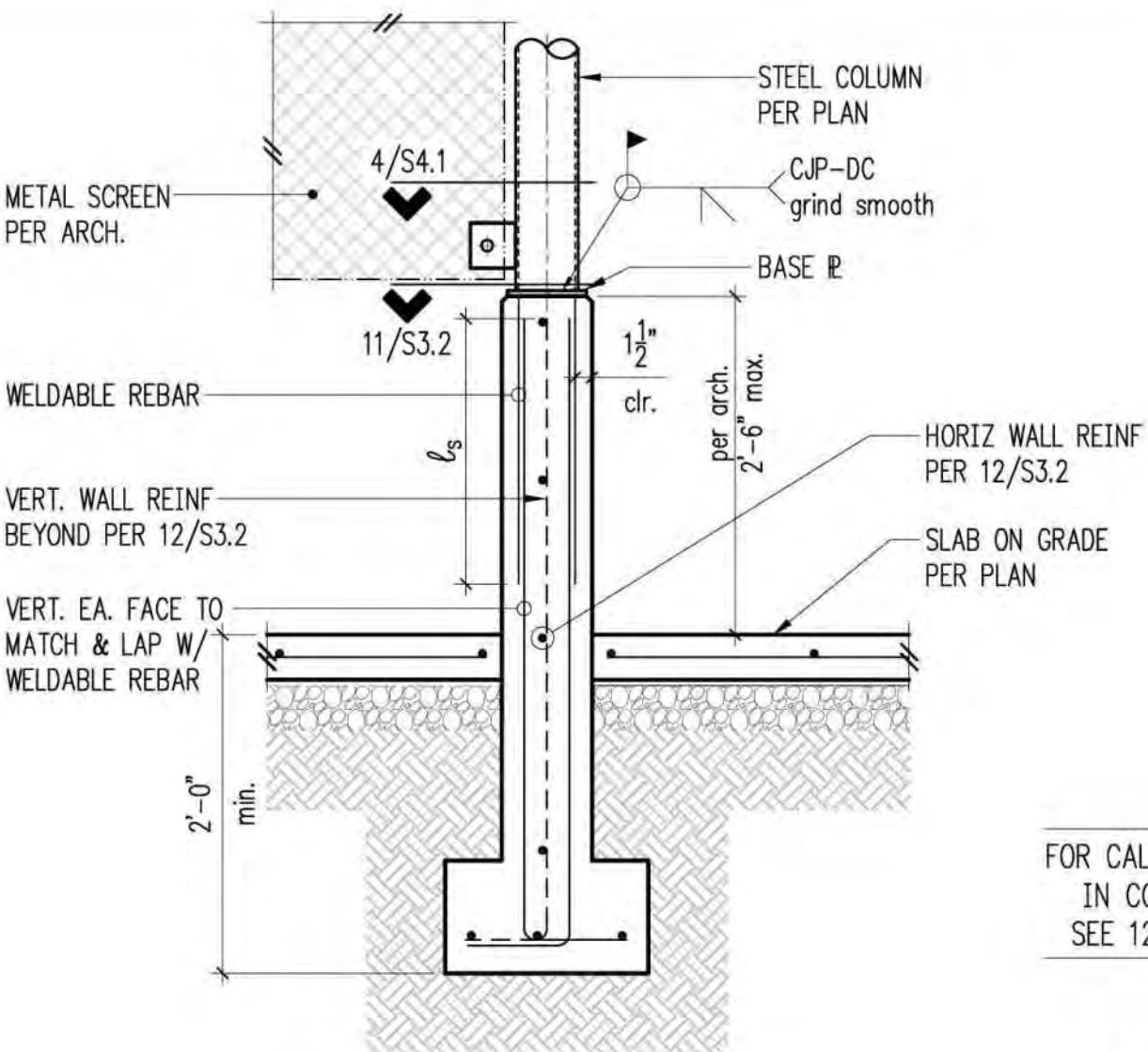
Typical Slab Edge



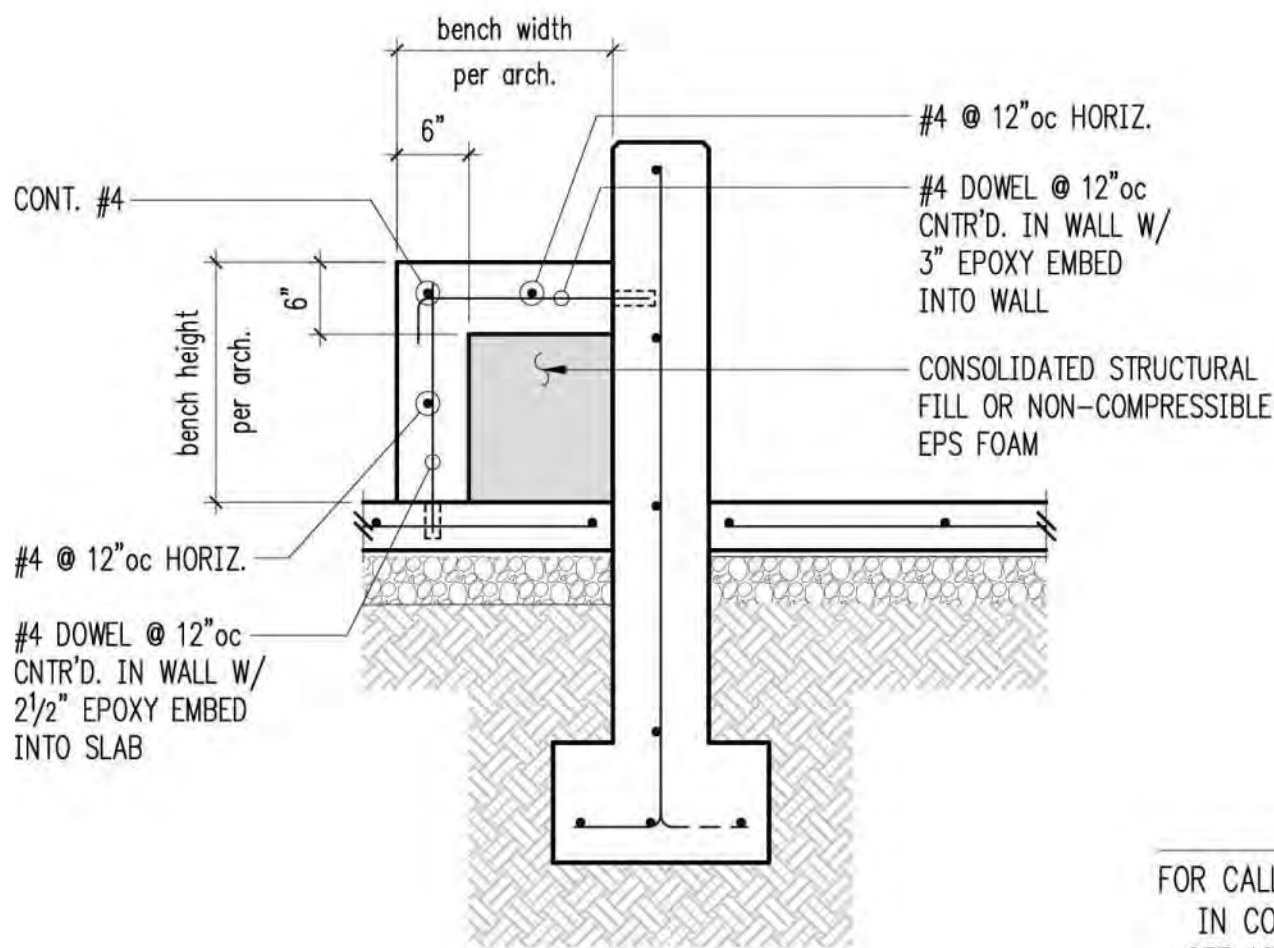
Base R at Corner



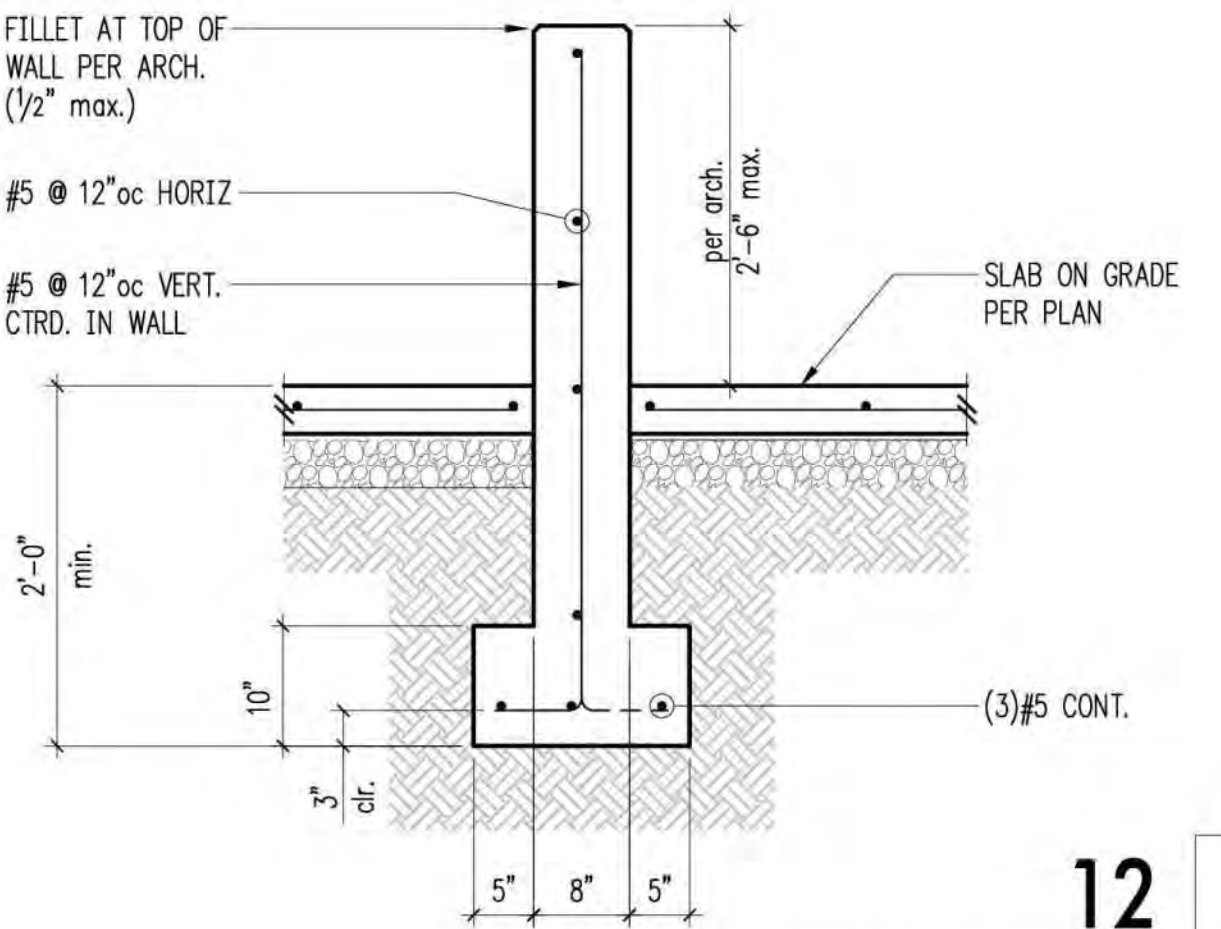
Base R at Cont. Wall & Wall End



FOR CALLOUTS IN COMMON SEE 12/S3.2



FOR CALLOUTS IN COMMON SEE 12/S3.2



APPROVED FOR CONSTRUCTION

RECORD DRAWINGS
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ONE INCH
AT FULL SIZE, IF NOT ONE INCH SCALE ACCORDINGLY



REVISIONS				
REV	DATE	BY	APP'D	DESCRIPTION

DESIGNED BY: LSD
DRAWN BY: NHD
CHECKED BY: BDM
APPROVED BY: DJS
SCALE: 3/4" = 1'-0" U.N.O.
DATE: AUGUST 12, 2023

**MEADOWDALE BEACH PARK
AND ESTUARY DESIGN**
PFN 19-103913LDA

TOILET ENCLOSURE STRUCTURAL CONCRETE DETAILS

S3.2

SHEET # 61 OF 81

RECORD DRAWINGS
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SECTION 5, TOWNSHIP 27 N., RANGE 4 E

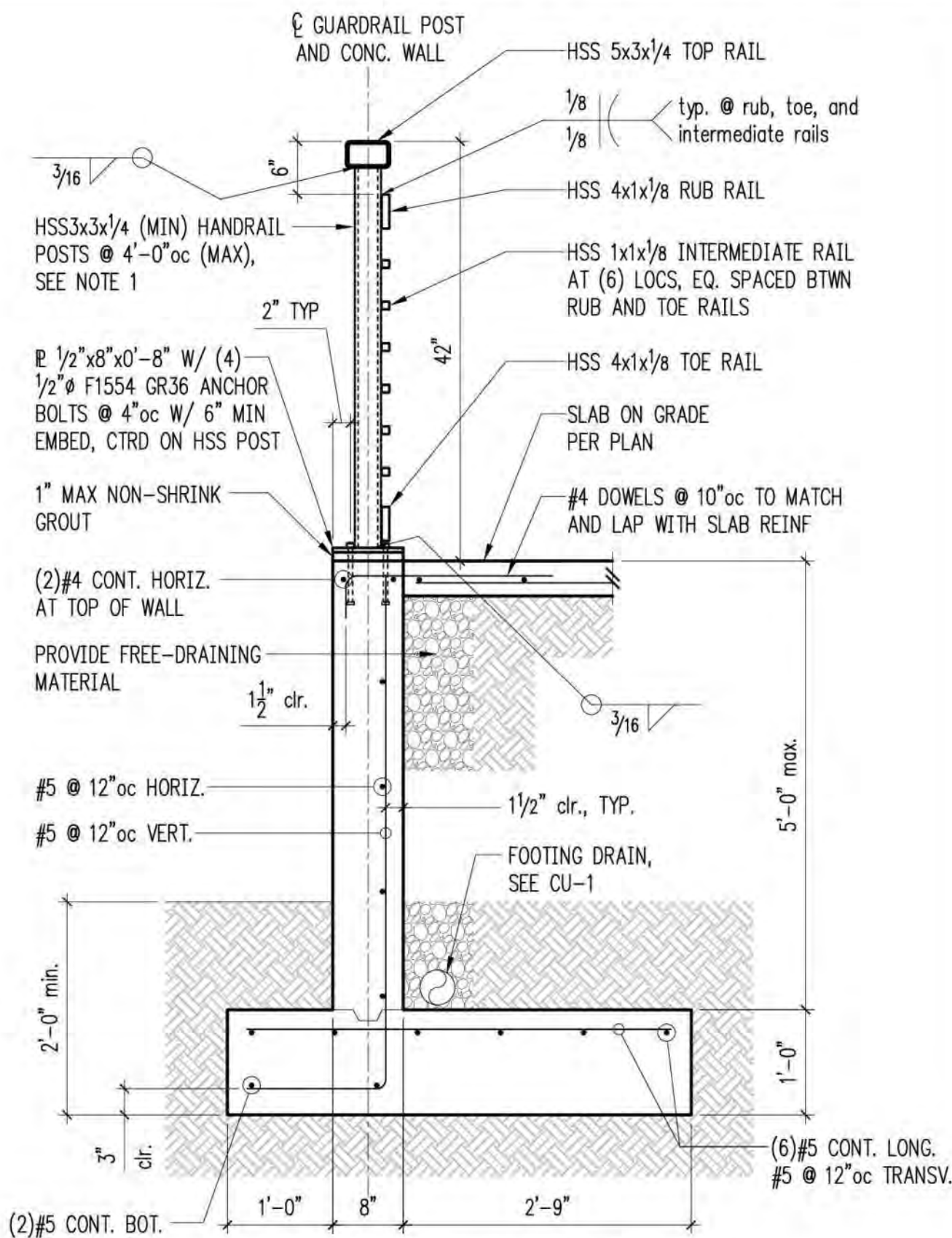
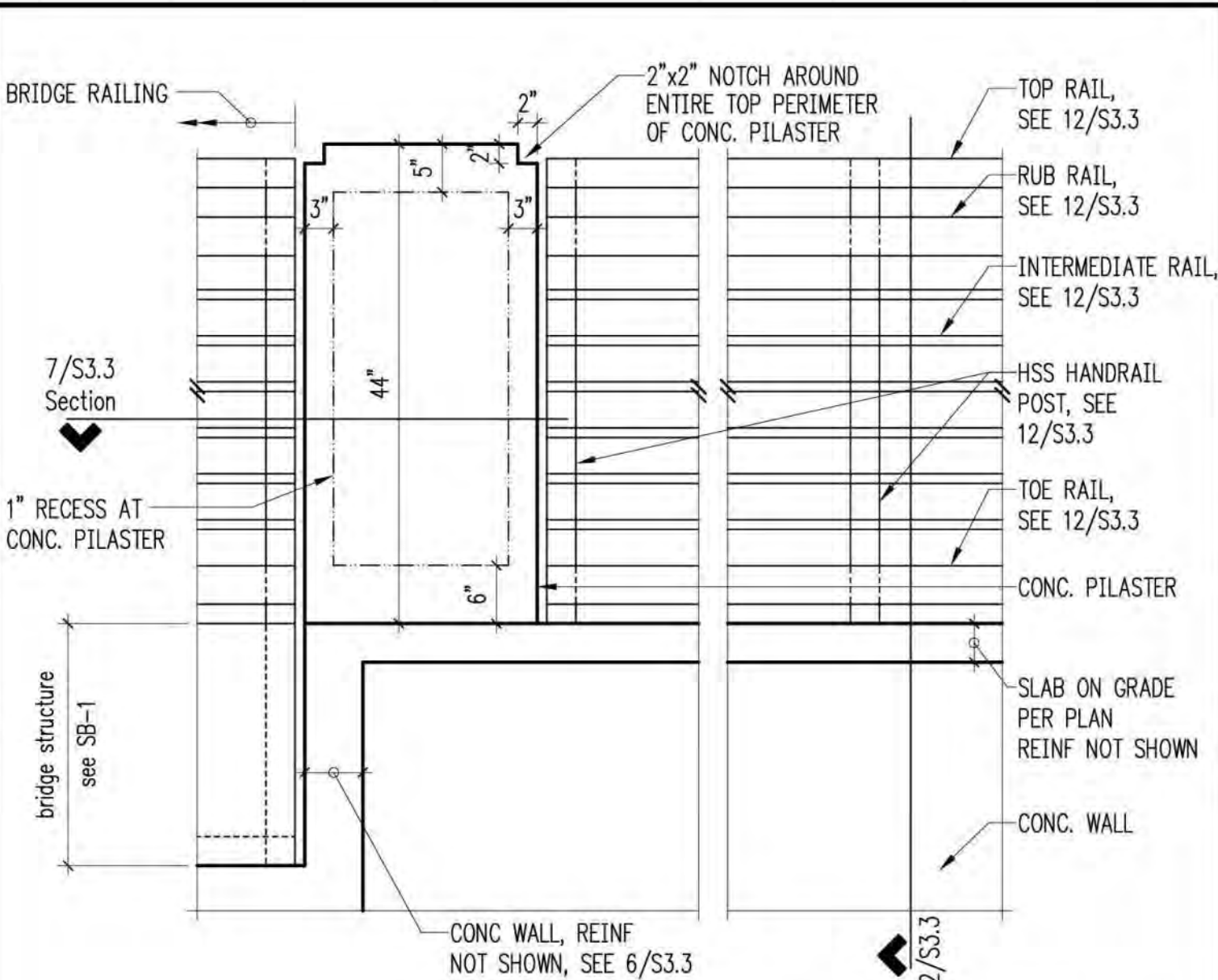
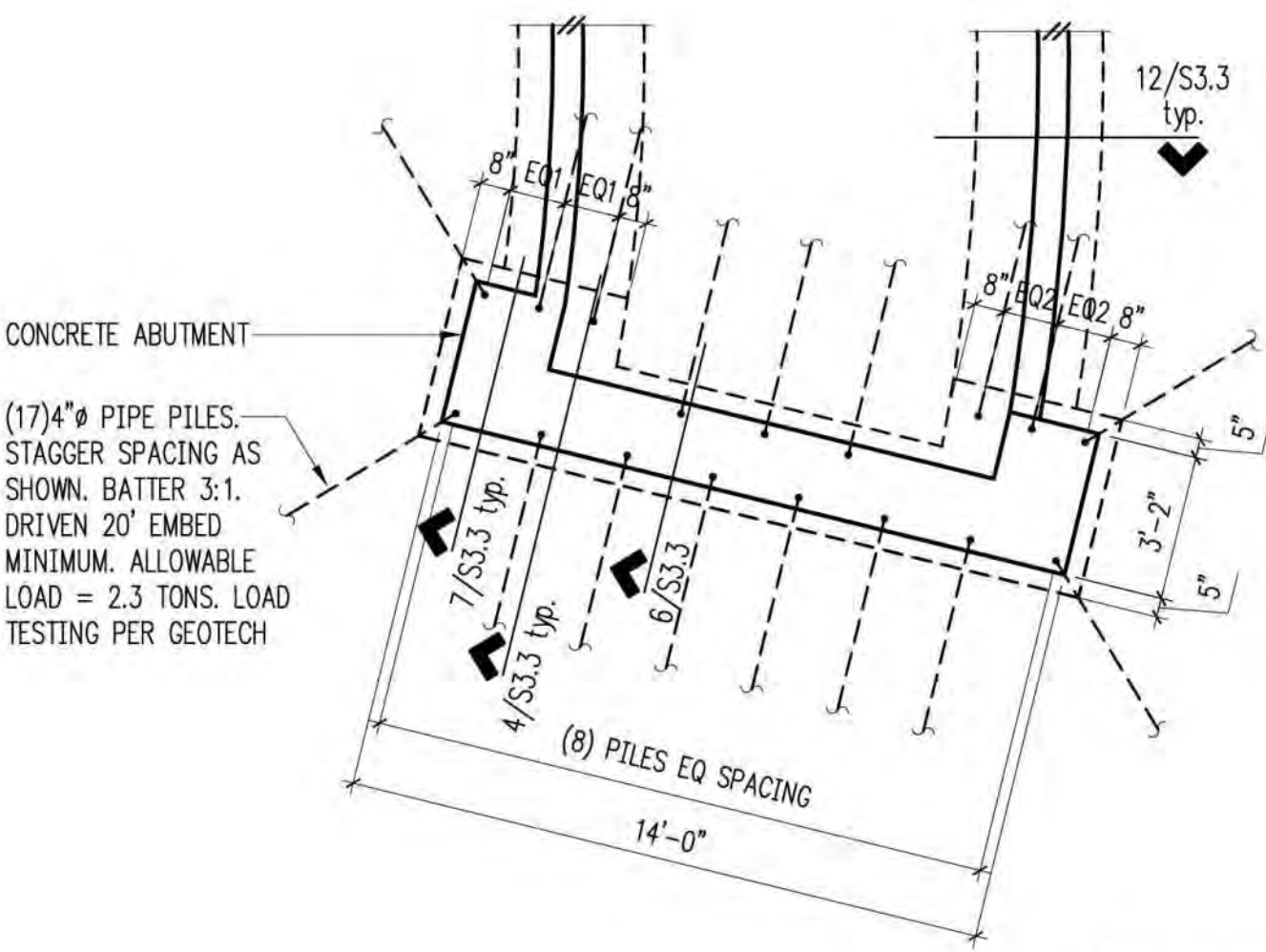
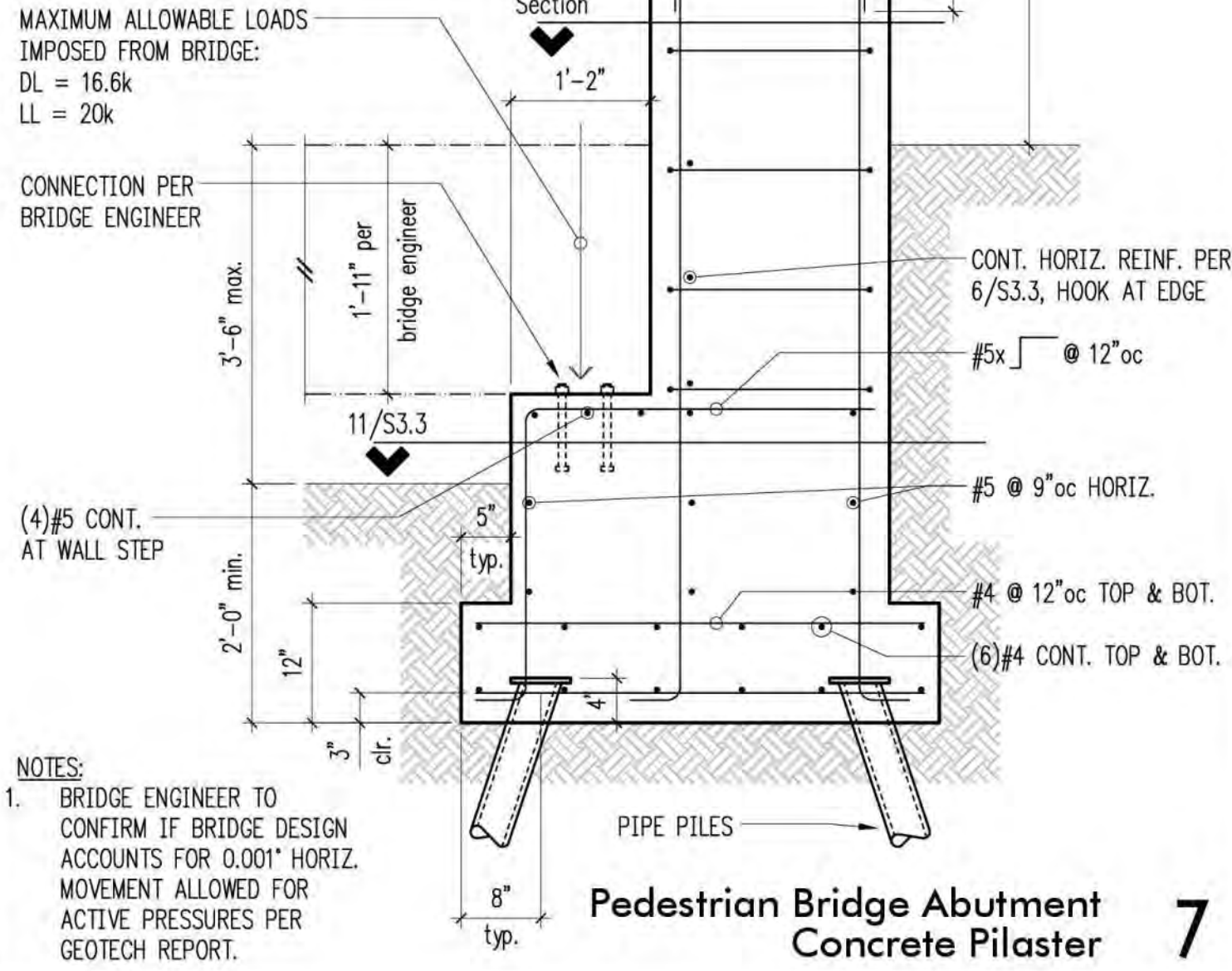
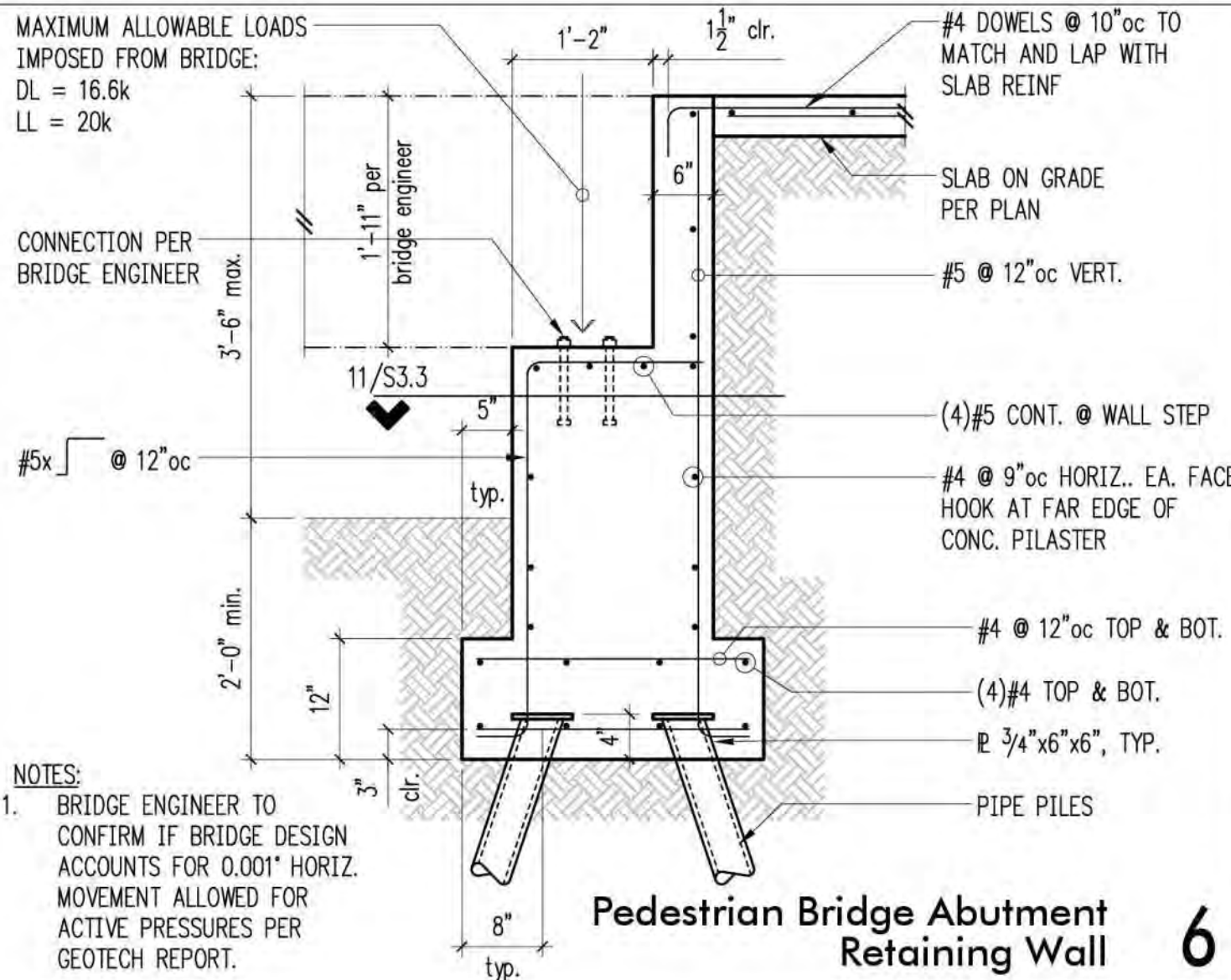
1

2

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9



NOTES:
1. GUARDRAIL POST AND ITS
BASE CONNECTION HAVE
NOT BEEN DESIGNED TO
ACCOMMODATE VEHICLE
IMPACT LOADING.

APPROVED FOR CONSTRUCTION
BY:
R/W PERMIT NO.
DATE
PFN: 19-103913LDA

100% CONSTRUCTION DRAWINGS / BID SET



REVISIONS					DESCRIPTION
REV	DATE	BY	APP'D		

DESIGNED BY: LSD
DRAWN BY: NHD
CHECKED BY: BDM
APPROVED BY: DIS
SCALE: 3/4" = 1'-0" U.N.O.
DATE: August 2020

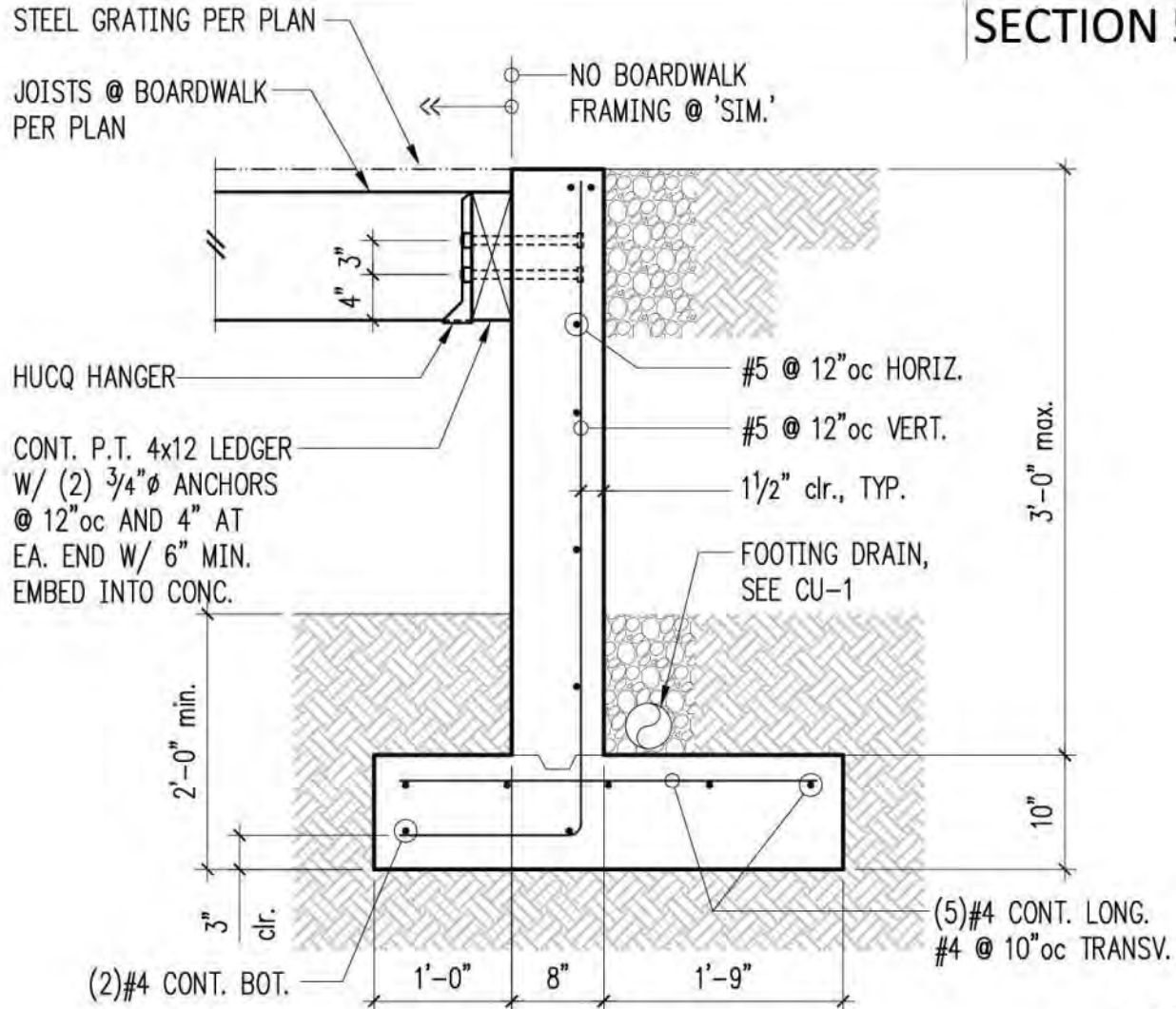
MEADOWDALE BEACH PARK
AND ESTUARY DESIGN
PFN 19-103913LDA

PEDESTRIAN BRIDGE CONCRETE ABUTMENT DETAILS

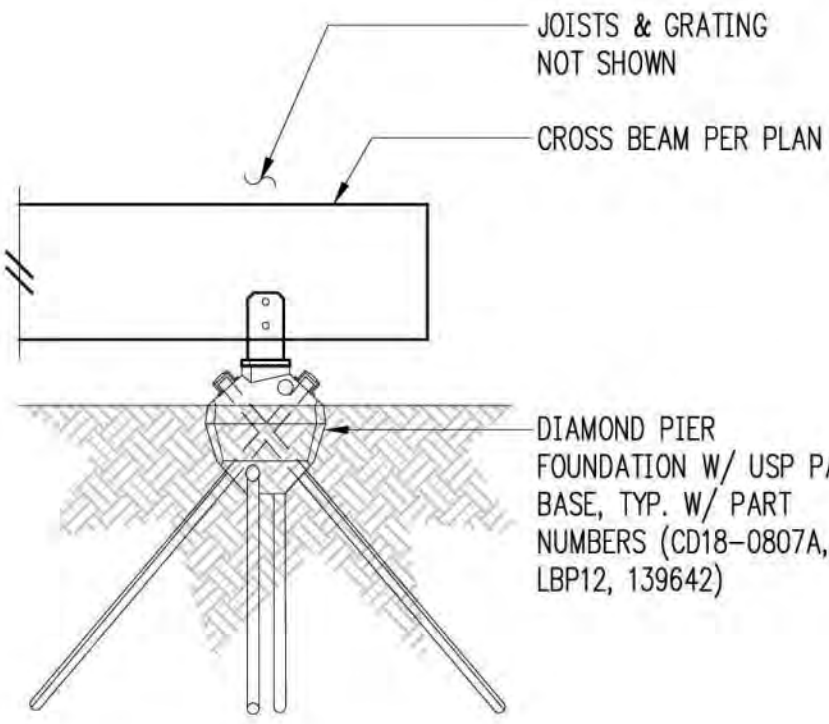
S3.3

SHEET # 62 OF 81

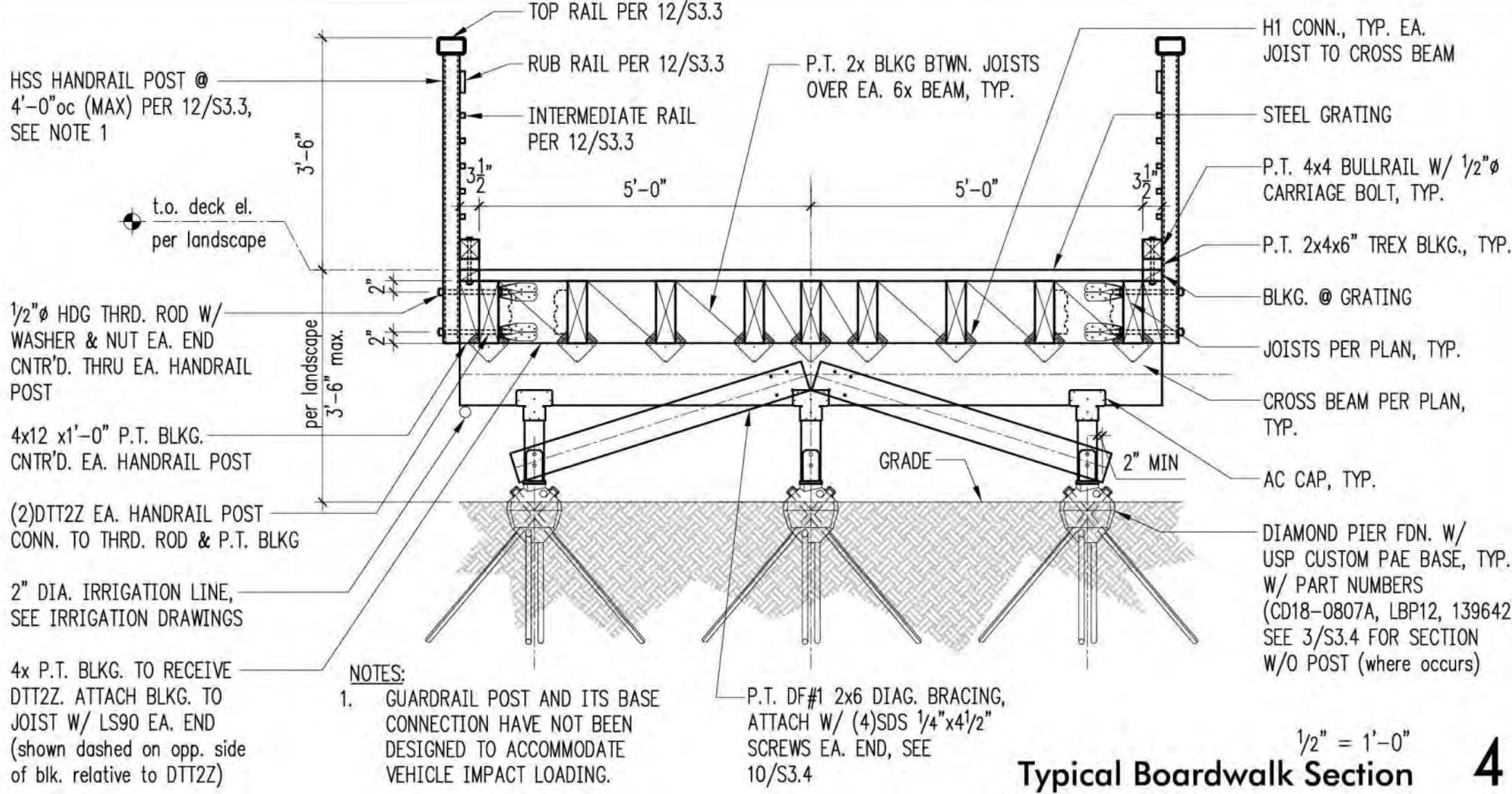
SECTION 5, TOWNSHIP 27 N., RANGE 4 E



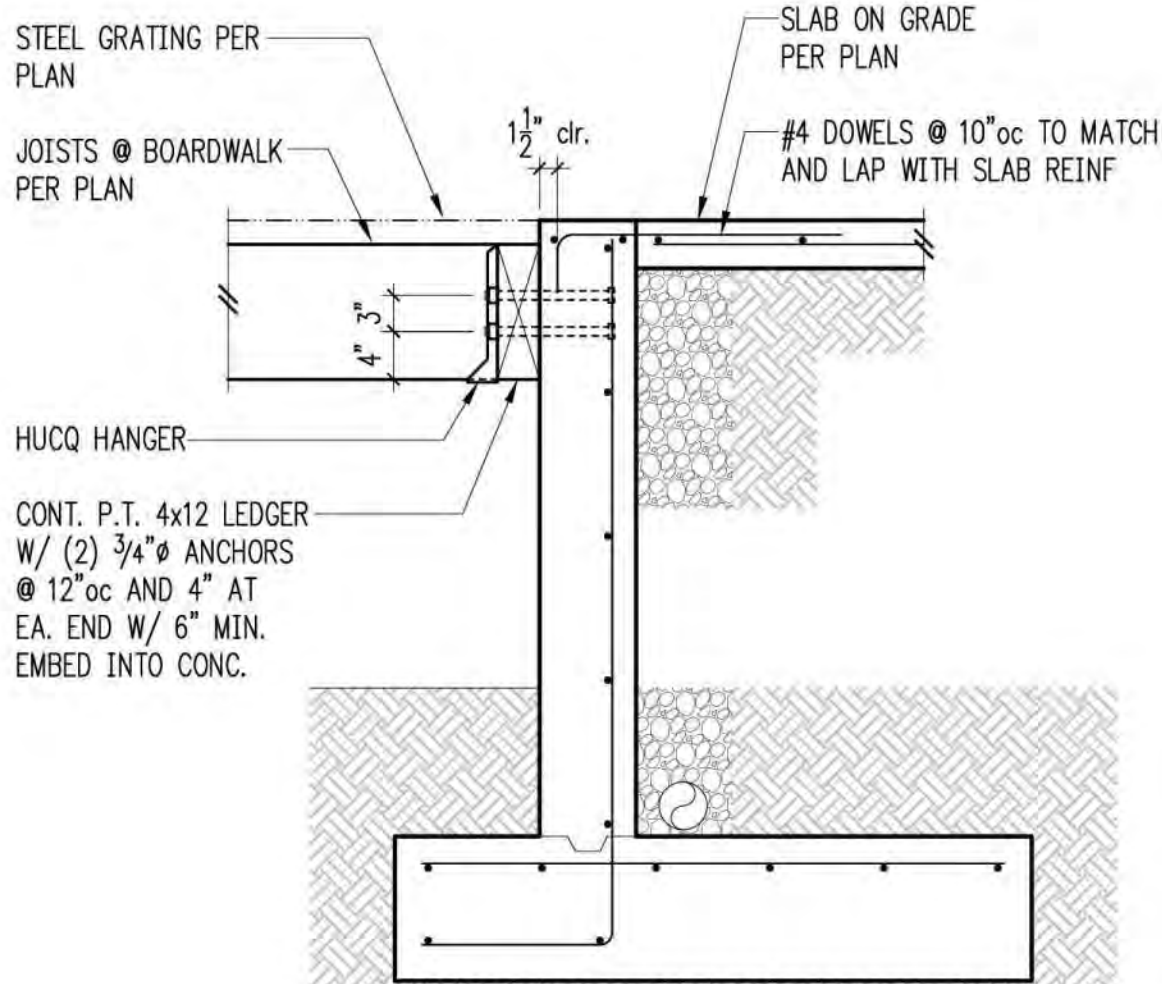
Retaining Wall at South End of Boardwalk



Typical Boardwalk Section Without Post

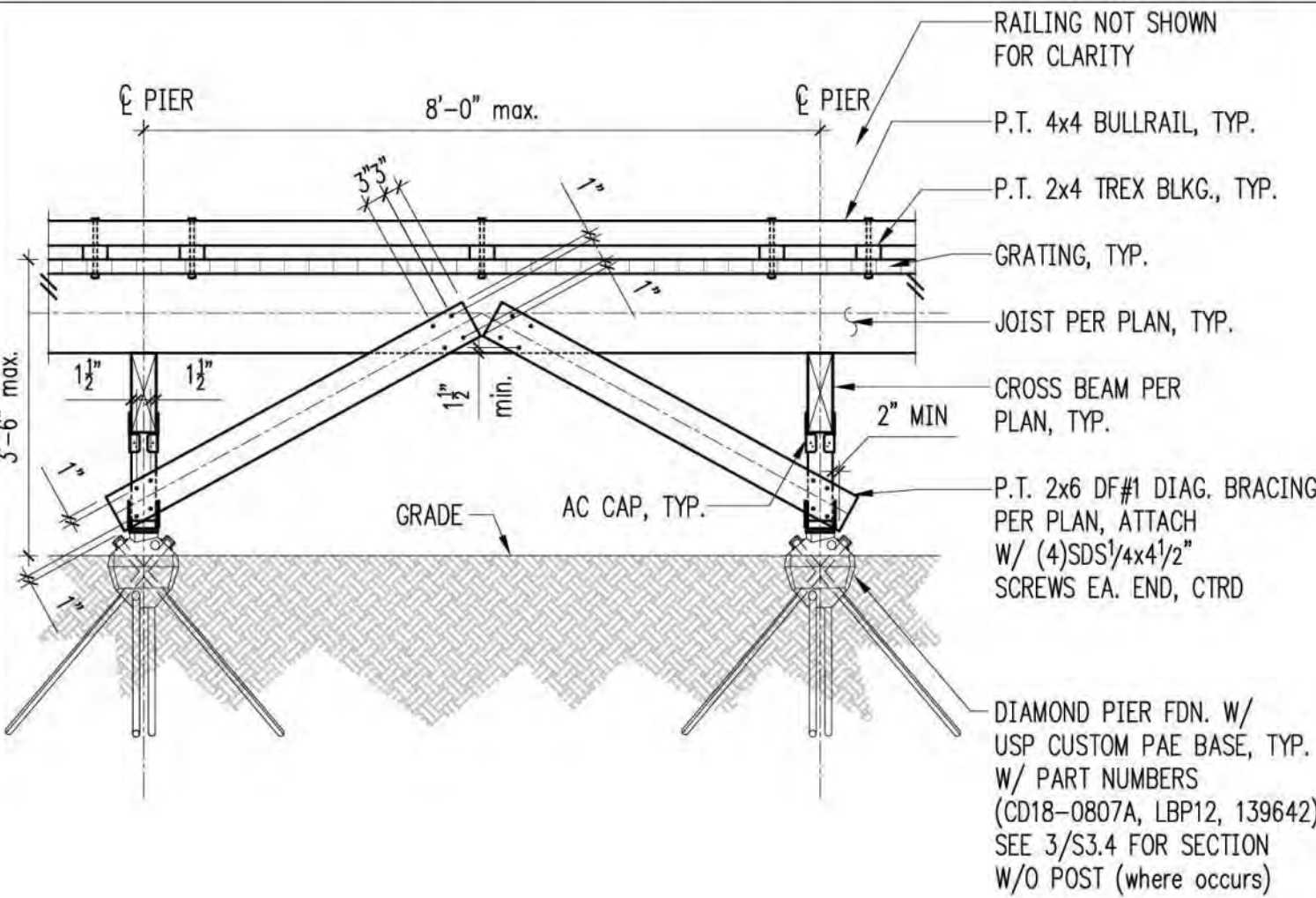


Typical Boardwalk Section



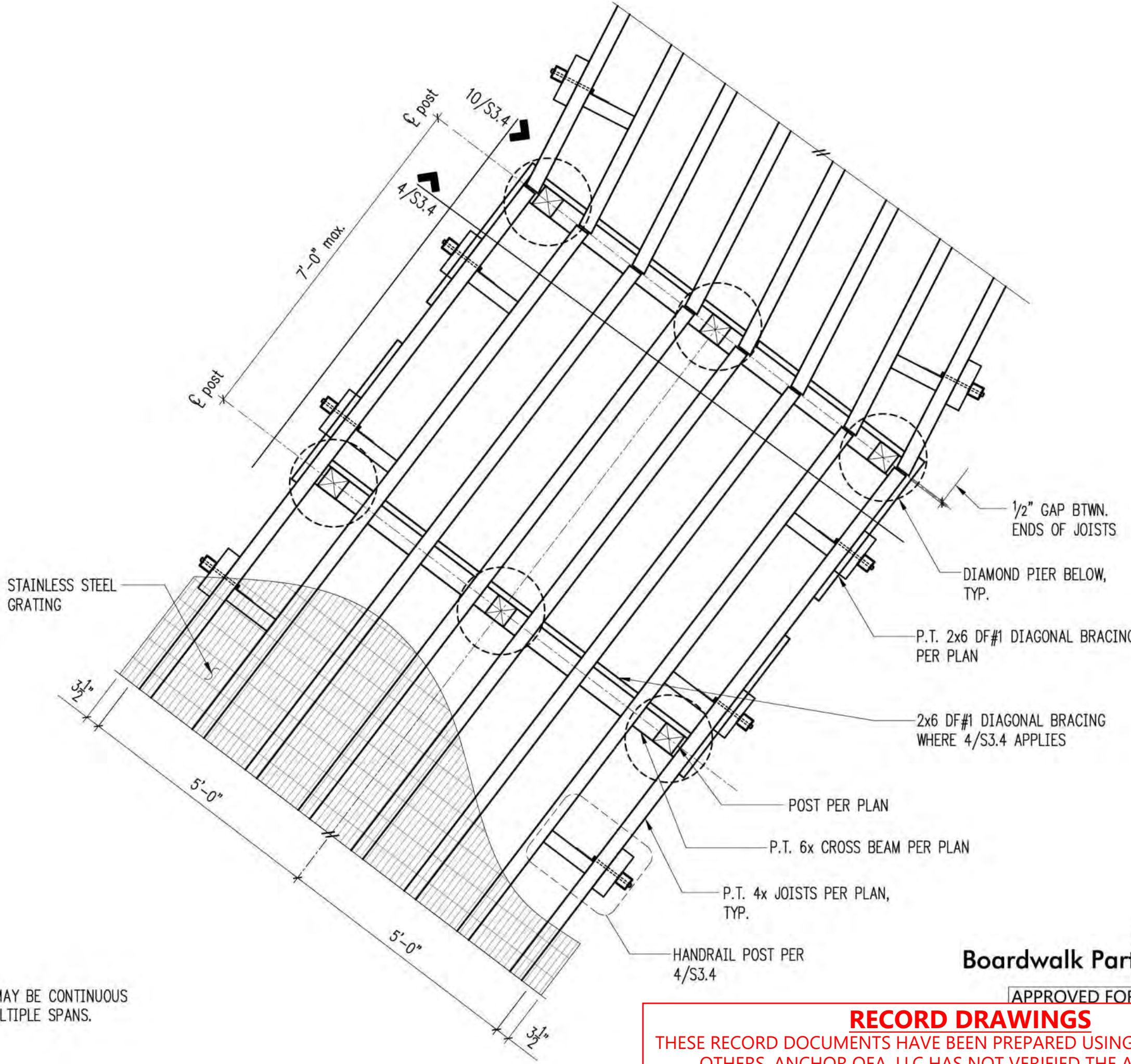
Retaining Wall at North End of Boardwalk

FOR CALLOUTS
IN COMMON
SEE 12/S3.3



Typical Boardwalk Exterior Elevation

NOTES:
1. JOISTS MAY BE CONTINUOUS
OVER MULTIPLE SPANS.



Boardwalk Partial Plan

RECORD DRAWINGS
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REVISIONS					DESCRIPTION
REV	DATE	BY	APP'D		

DESIGNED BY: LSD
DRAWN BY: NHD
CHECKED BY: BDM
APPROVED BY: DJS
SCALE: 3/4" = 1'-0" U.N.O.
DATE: August 2020

MEADOWDALE BEACH PARK
AND ESTUARY DESIGN
PFN 19-103913LDA

BOARDWALK DETAILS

S3.4

SHEET # 63 OF 81

Reinforcing Splice and Development Length Schedule

For $f_c = 3000$ psi, Grade 60 Reinforcing

I Minimum Straight Development Length (ℓ_d)		
Bar Size	Top Bars	Other Bars
#3	23"	17"
#4	29"	22"
#5	37"	28"
#6	43"	33"
#7	63"	48"
#8	72"	55"
#9	81"	62"
#10	91"	70"
#11	102"	78"

II Minimum Lap Splice Lengths (ℓ_s)		
Bar Size	Top Bars	Other Bars
#3	30"	23"
#4	38"	29"
#5	49"	37"
#6	56"	43"
#7	82"	63"
#8	94"	72"
#9	106"	81"
#10	119"	91"
#11	133"	102"

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

IF CLEAR CONCRETE COVER IS NOT GREATER THAN THE DIAMETER OF THE BAR, OR THE CENTER TO CENTER SPACING IS NOT GREATER THAN 3 BAR DIAMETERS, THEN LENGTHS SHALL BE INCREASED BY 50%

Minimum Embedment Lengths (ℓ_{dh}) For Standard End Hooks

Bar Size	Length
#3	6"
#4	8"
#5	10"
#6	12"
#7	14"
#8	16"
#9	18"
#10	20"
#11	22"

- SIDE COVER MUST BE EQUAL TO OR GREATER THAN $2\frac{1}{2}"$
- END COVER FOR 90° HOOKS MUST BE EQUAL TO OR GREATER THAN 2"

Reinforcing Splice Length & Development Length (3000psi) 9

Reinforcing Splice and Development Length Schedule

For $f_c = 4000$ psi, Grade 60 Reinforcing

I Minimum Straight Development Length (ℓ_d)		
Bar Size	Top Bars	Other Bars
#3	20"	15"
#4	25"	19"
#5	32"	24"
#6	38"	29"
#7	55"	42"
#8	63"	48"
#9	71"	54"
#10	80"	61"
#11	88"	67"

II Minimum Lap Splice Lengths (ℓ_s)		
Bar Size	Top Bars	Other Bars
#3	26"	20"
#4	33"	25"
#5	42"	32"
#6	50"	38"
#7	72"	55"
#8	82"	63"
#9	93"	71"
#10	104"	80"
#11	115"	88"

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

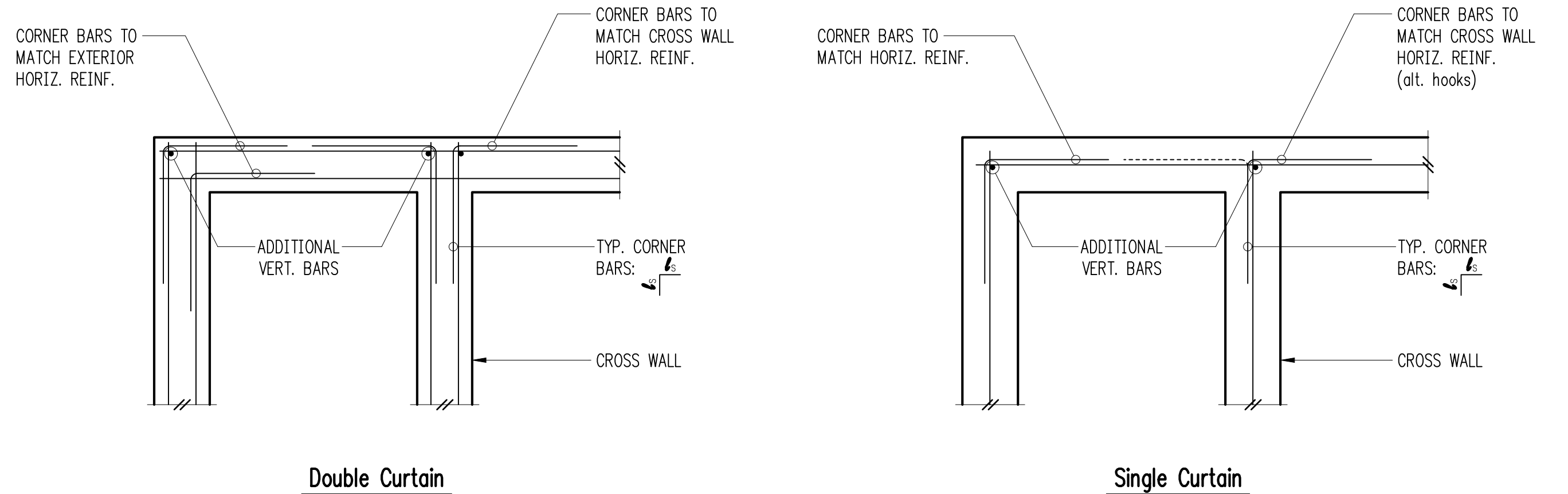
IF CLEAR CONCRETE COVER IS NOT GREATER THAN THE DIAMETER OF THE BAR, OR THE CENTER TO CENTER SPACING IS NOT GREATER THAN 3 BAR DIAMETERS, THEN LENGTHS SHALL BE INCREASED BY 50%

Minimum Embedment Lengths (ℓ_{dh}) For Standard End Hooks

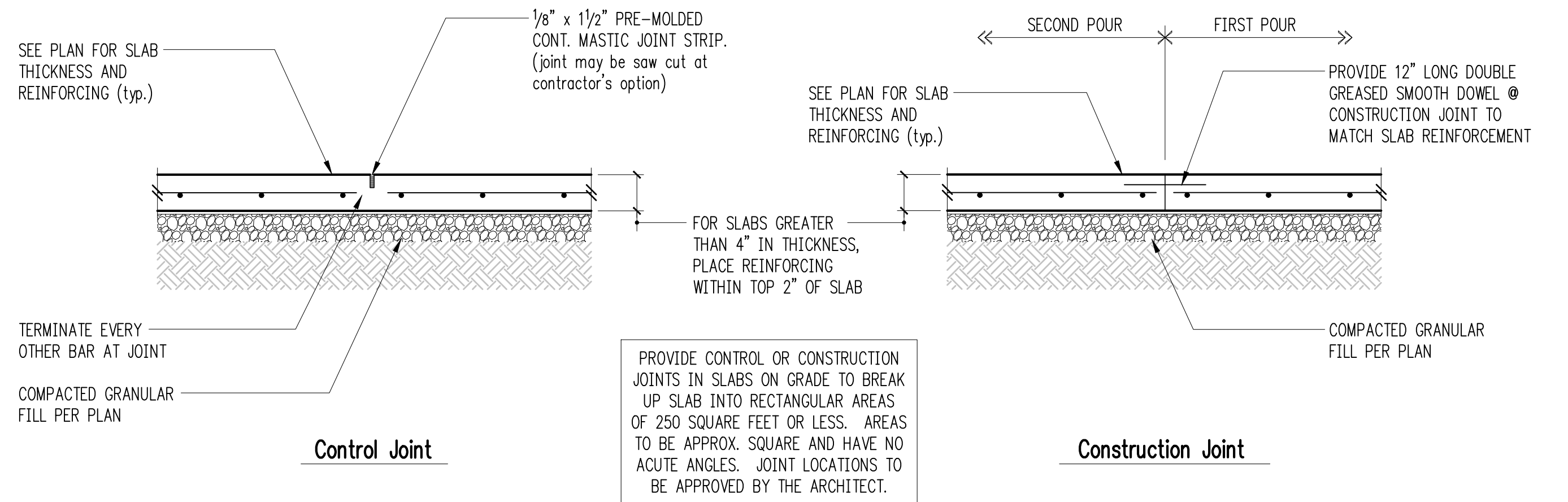
Bar Size	Length
#3	6"
#4	7"
#5	9"
#6	10"
#7	12"
#8	14"
#9	15"
#10	17"
#11	19"

- SIDE COVER MUST BE EQUAL TO OR GREATER THAN $2\frac{1}{2}"$
- END COVER FOR 90° HOOKS MUST BE EQUAL TO OR GREATER THAN 2"

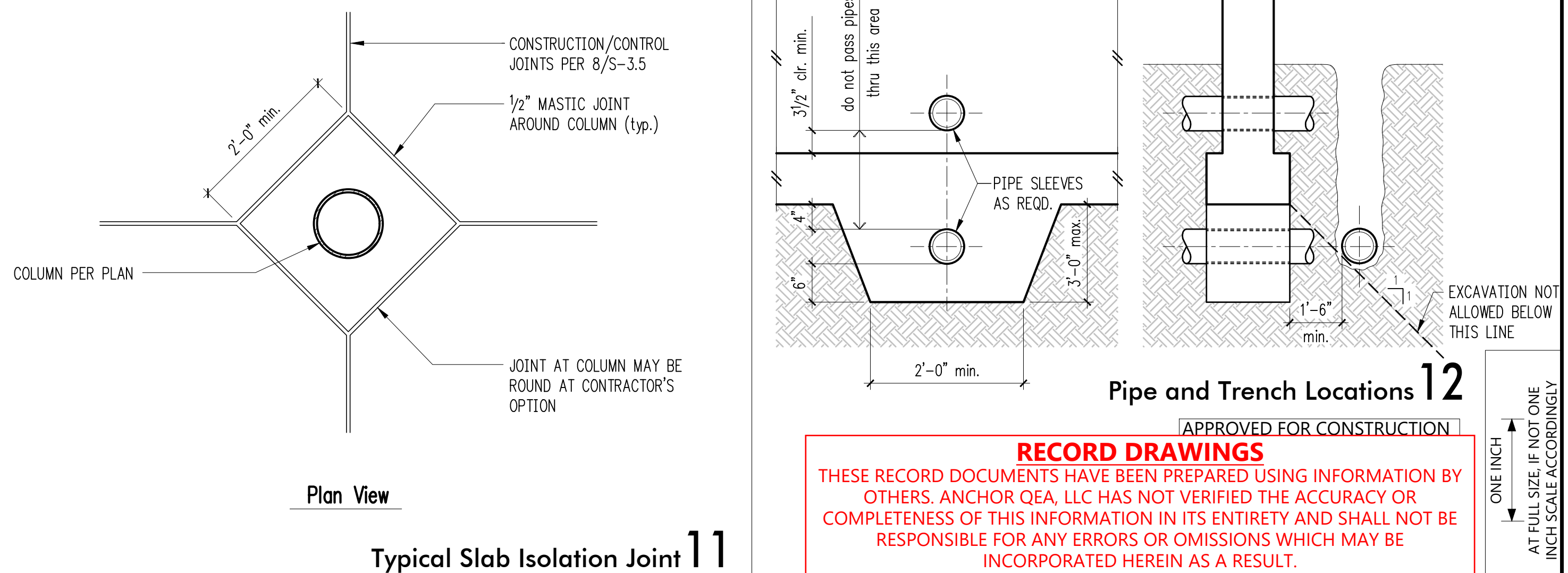
Reinforcing Splice Length & Development Length (4000psi) 10



Typical Corner Bars at Concrete Walls and Footings 4



Typical Slab Joints 8



Pipe and Trench Locations 12

APPROVED FOR CONSTRUCTION

RECORD DRAWINGS
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Typical Slab Isolation Joint 11

REVISIONS				
REV	DATE	BY	APP'D	DESCRIPTION

DESIGNED BY: LSD
DRAWN BY: NHD
CHECKED BY: DJS
APPROVED BY: DJS
SCALE: 3/4"=1'-0"
DATE: February 2023

**MEADOWDALE BEACH PARK
AND ESTUARY DESIGN
19-103913LDA**

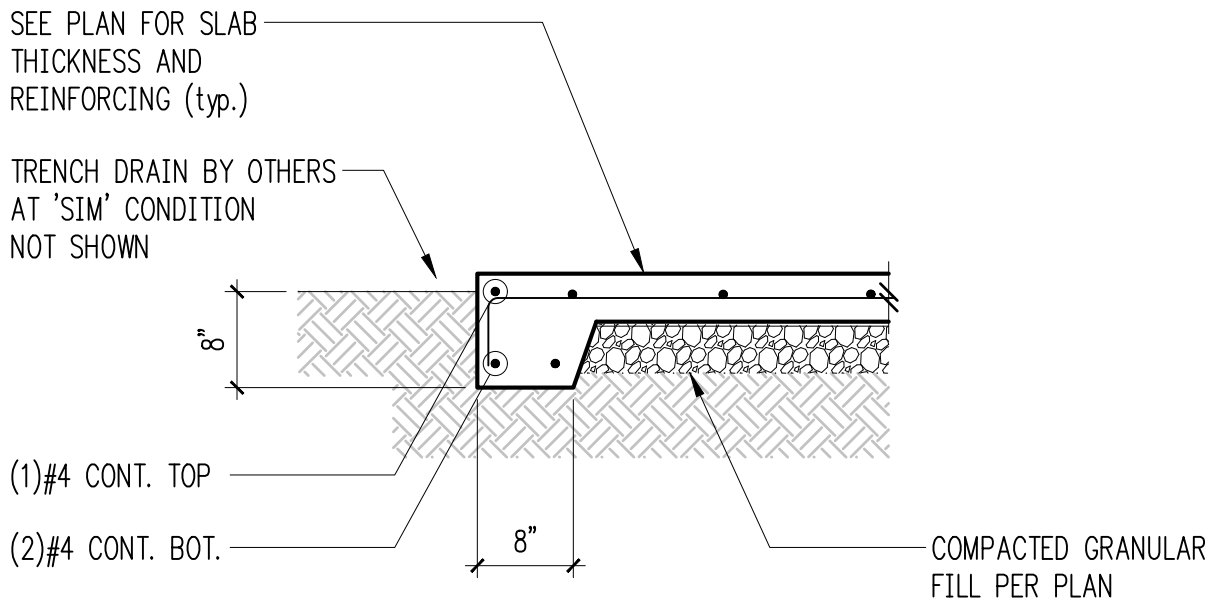
**PICNIC SHELTER STRUCTURAL
TYPICAL CONCRETE DETAILS**

S-3.5

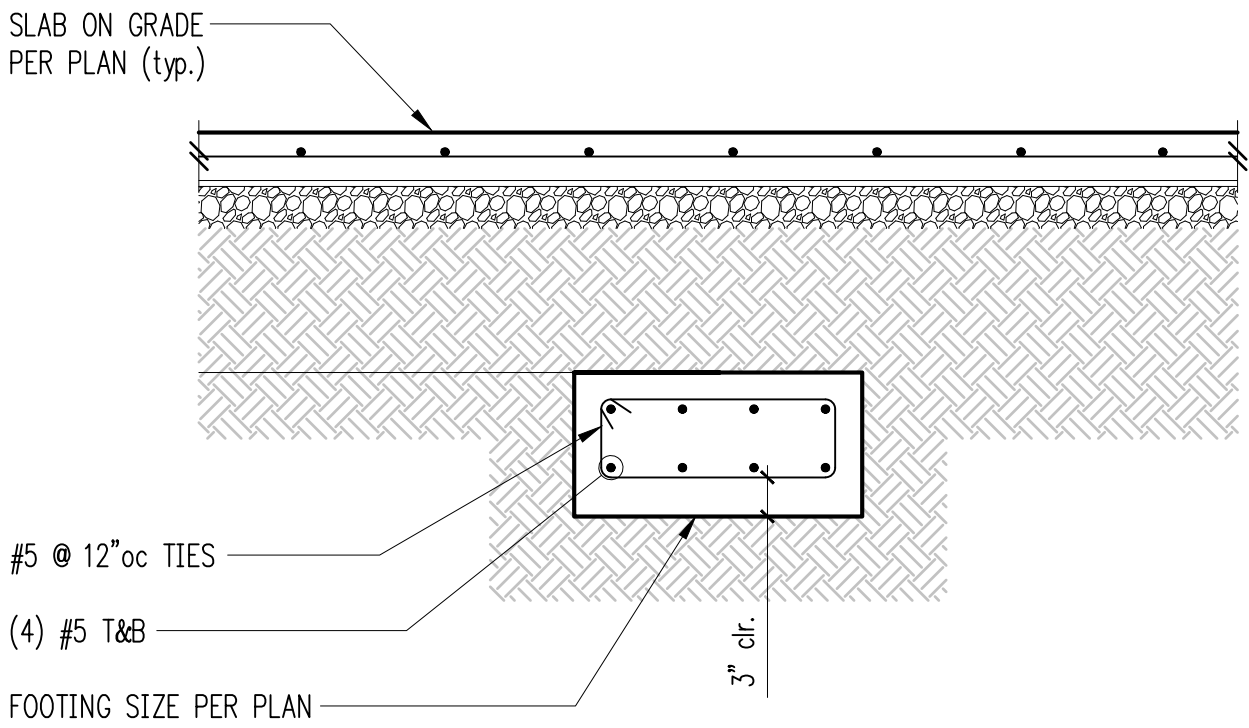
SHEET # 11 OF 16

RECORD DRAWINGS
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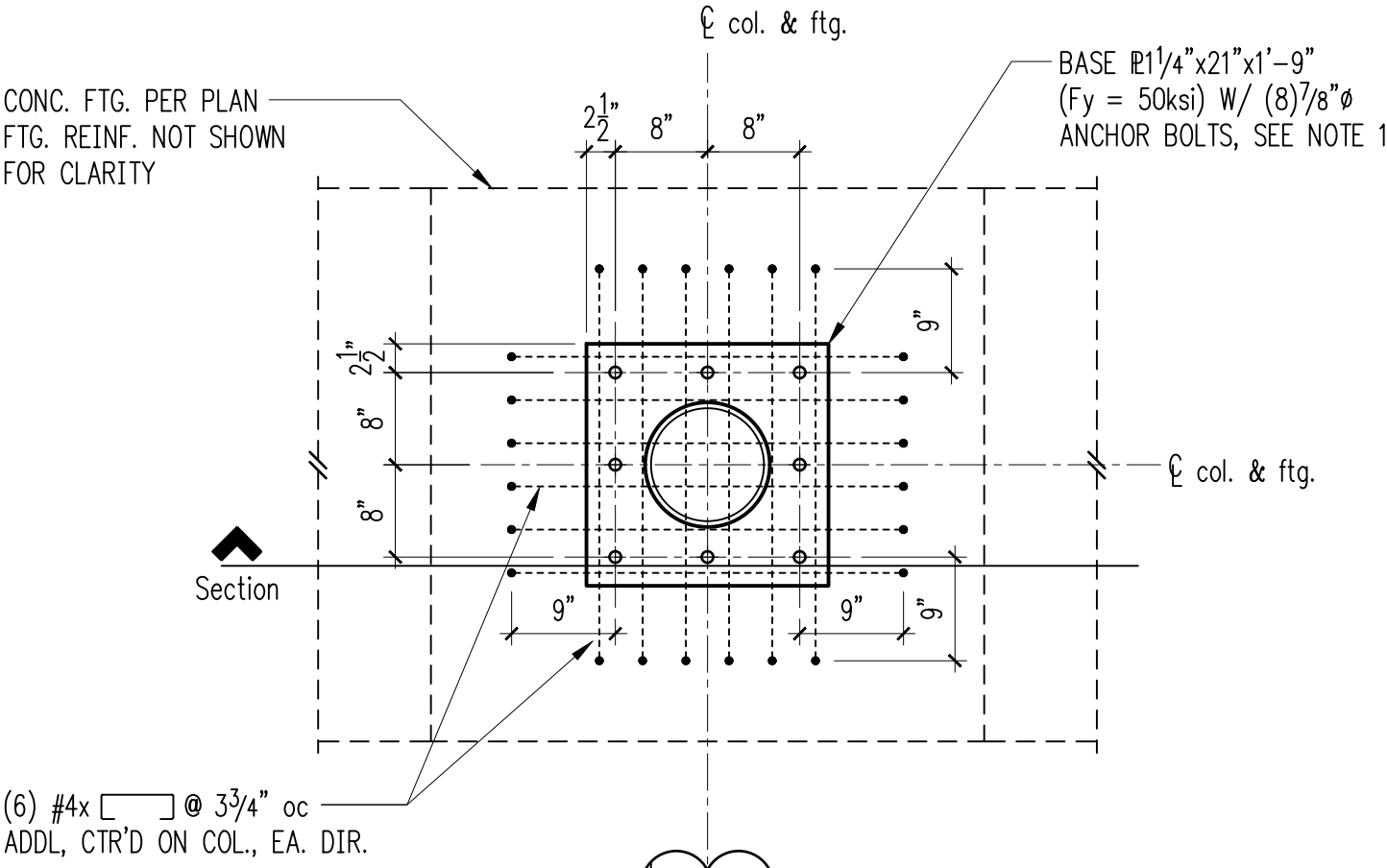
SECTION 5, TOWNSHIP 27 N., RANGE 4 E



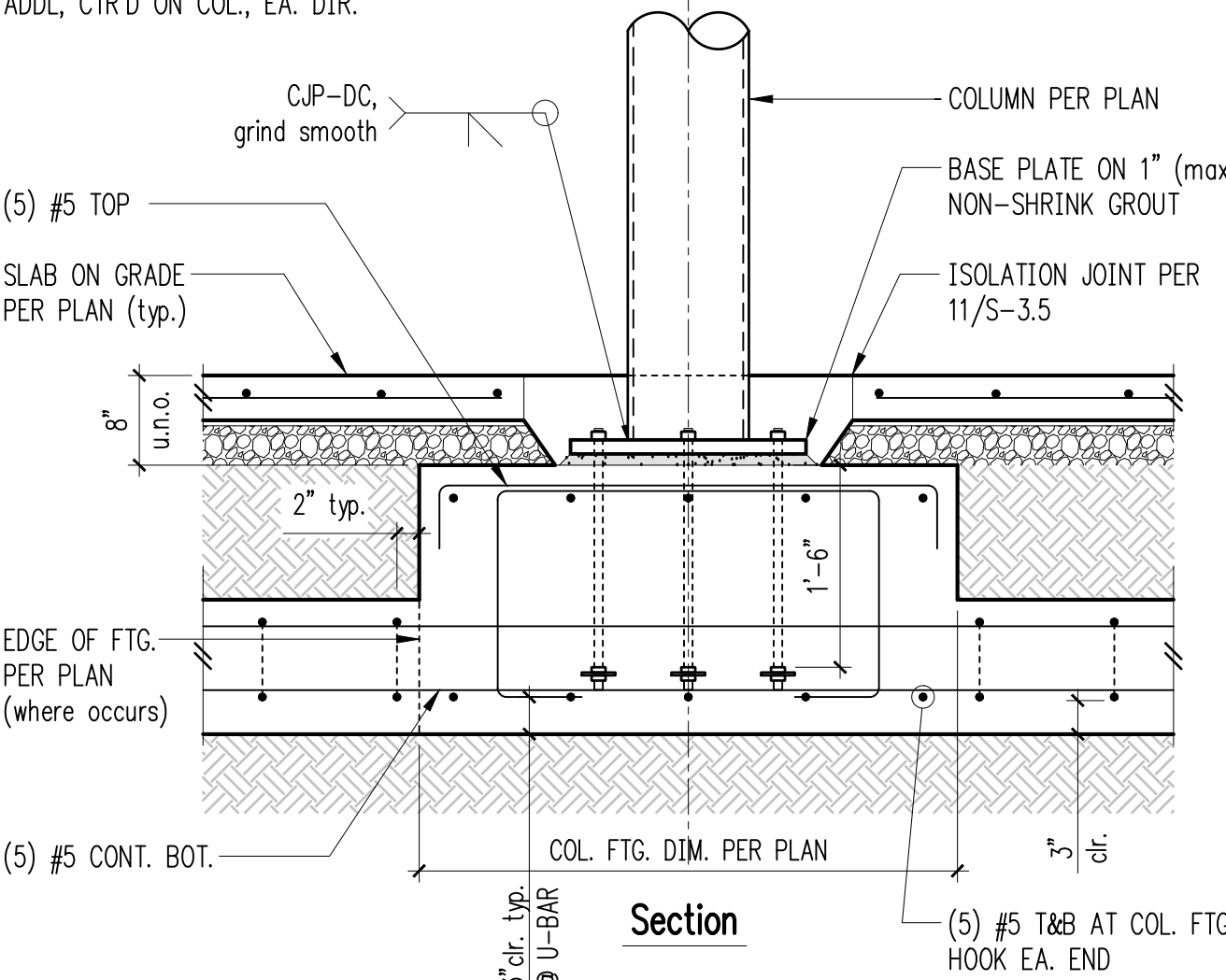
Typical Slab Edge



Typical Footing Between Column Footing



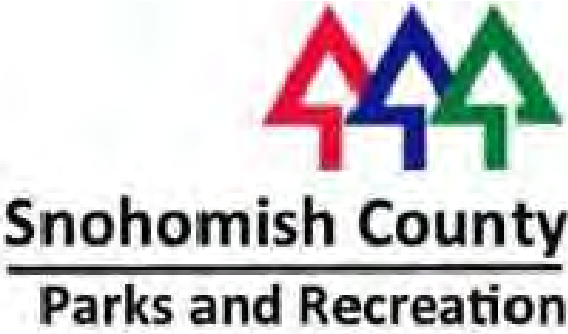
Typical Column Footing



NOTES:
1. ANCHOR BOLTS SHALL BE ASTM F1554 GR 36 WITH CLASS 2A THREADS. ANCHOR BOLTS TO BE PREFABRICATED WITH MATCHING DOUBLE HEAVY HEX NUTS AND 3/8"x3"x3" PLATE WASHER JAMMED AT EMBEDDED END. SECURE BASE PLATE TO ANCHOR BOLTS WITH HARDENED PLATE WASHERS, LOCK WASHERS AND MATCHING HEAVY HEX NUTS.

APPROVED FOR CONSTRUCTION BY: _____
R/W PERMIT NO. _____
DATE _____

PERMIT SET, NOT FOR CONSTRUCTION



REVISIONS				
REV	DATE	BY	APP'D	DESCRIPTION

DESIGNED BY: LSD
DRAWN BY: NHD
CHECKED BY: BDM
APPROVED BY: DJS
SCALE: 3/4" = 1'-0" U.N.O.
DATE: February 2023

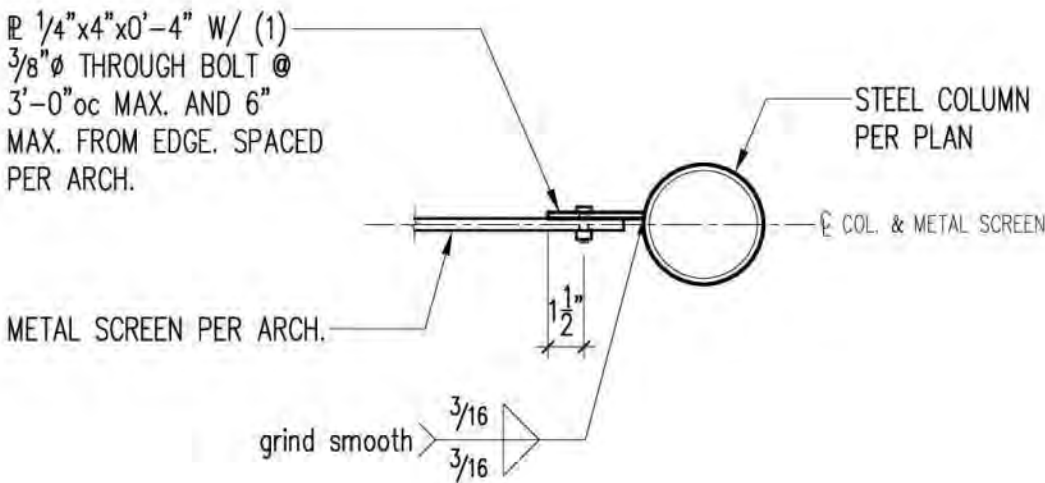
**MEADOWDALE BEACH PARK
AND ESTUARY DESIGN
19-103913LDA**

PICNIC SHELTER STRUCTURAL CONCRETE DETAILS

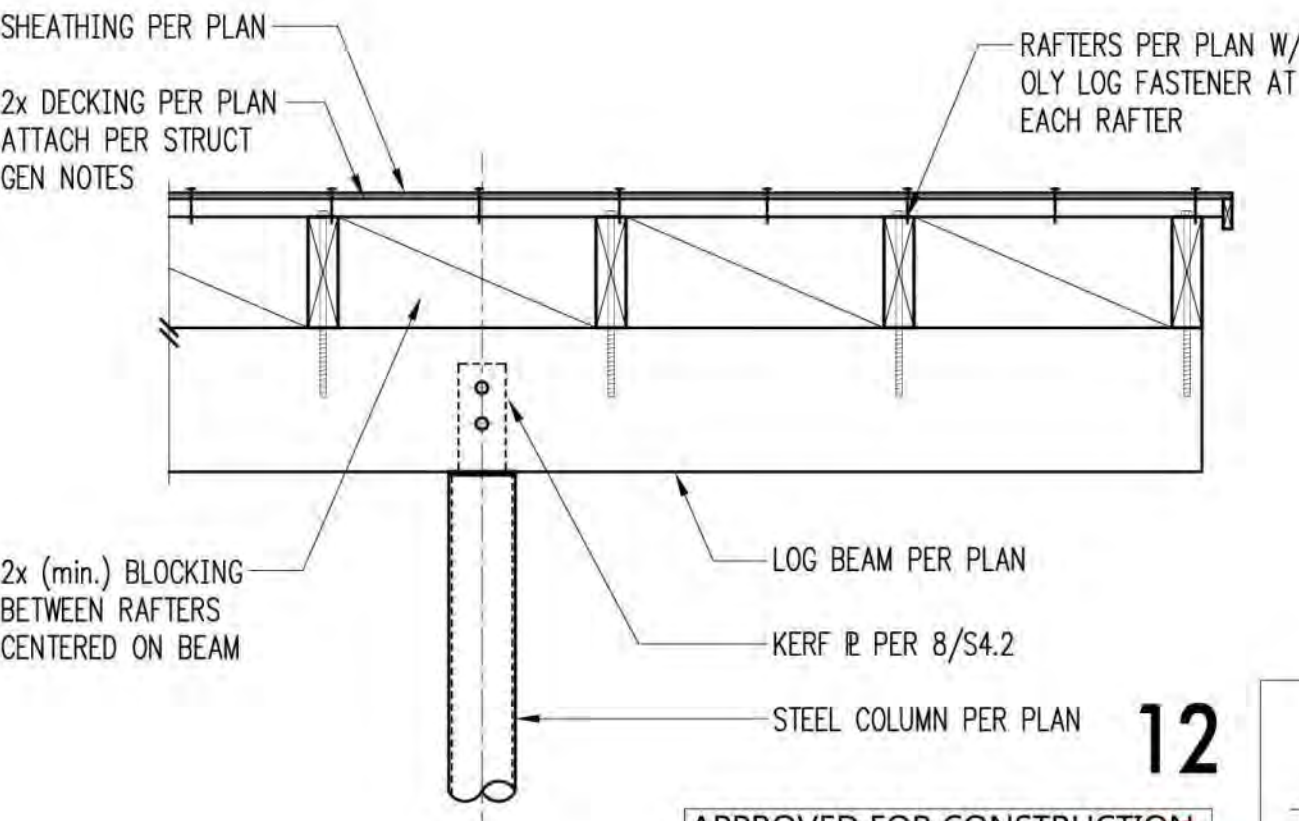
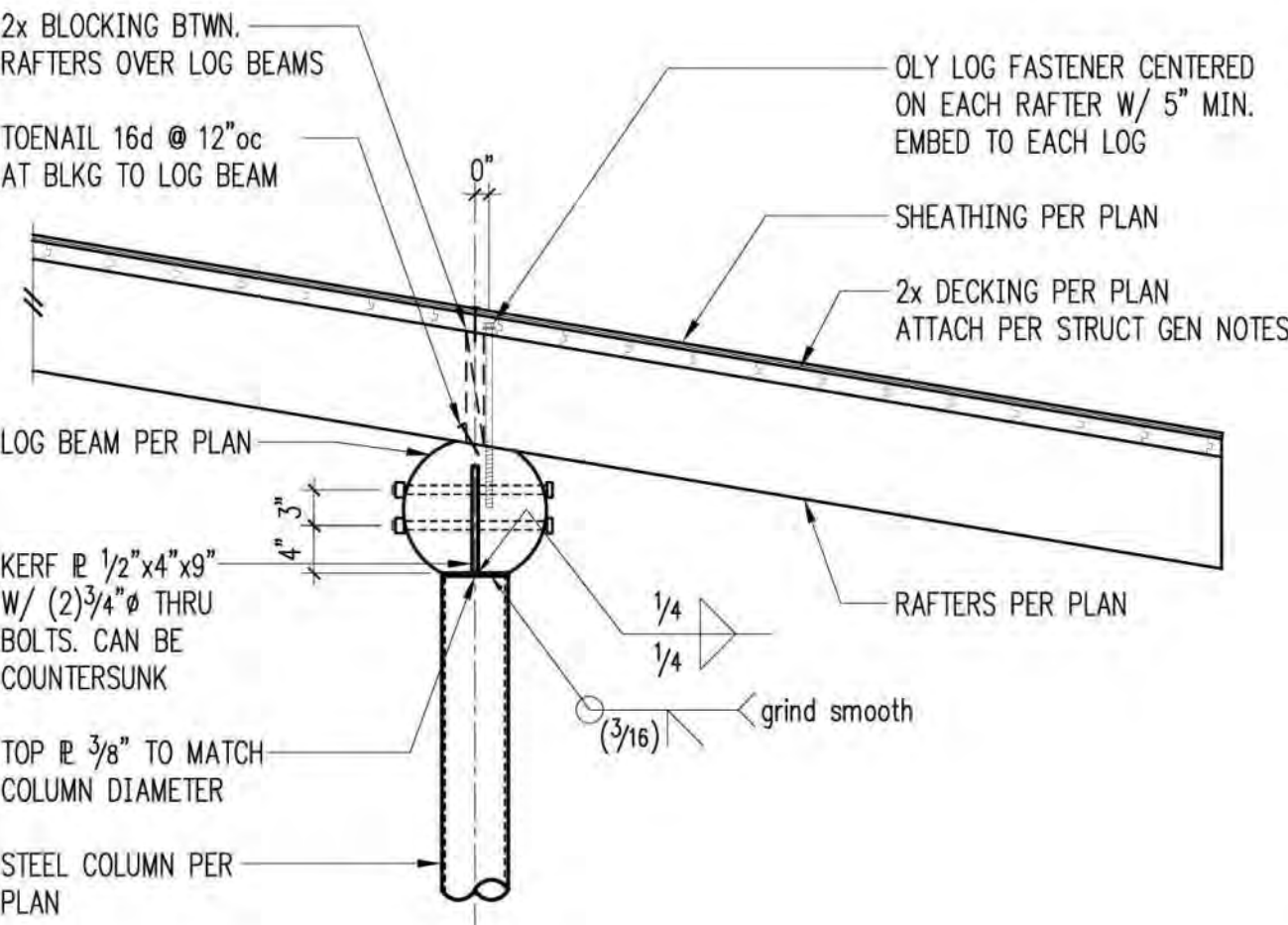
S-3.6

SHEET # 12 OF 16

SECTION 5, TOWNSHIP 27 N., RANGE 4 E



1 1/2" = 1'-0"



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RECORD DRAWINGS
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ONE INCH
AT FULL SIZE, IF NOT ONE
INCH SCALE ACCORDINGLY



REVISIONS				
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DRAWN BY: NHD
CHECKED BY: BDM
APPROVED BY: DJS
SCALE: 3/4" = 1'-0" U.N.O.
DATE: August 2020

**MEADOWDALE BEACH PARK
AND ESTUARY DESIGN
PFN 19-103913LDA**

RESTROOM ENCLOSURE DETAILS

S4.1

SHEET # 64 OF 81

1

2

3

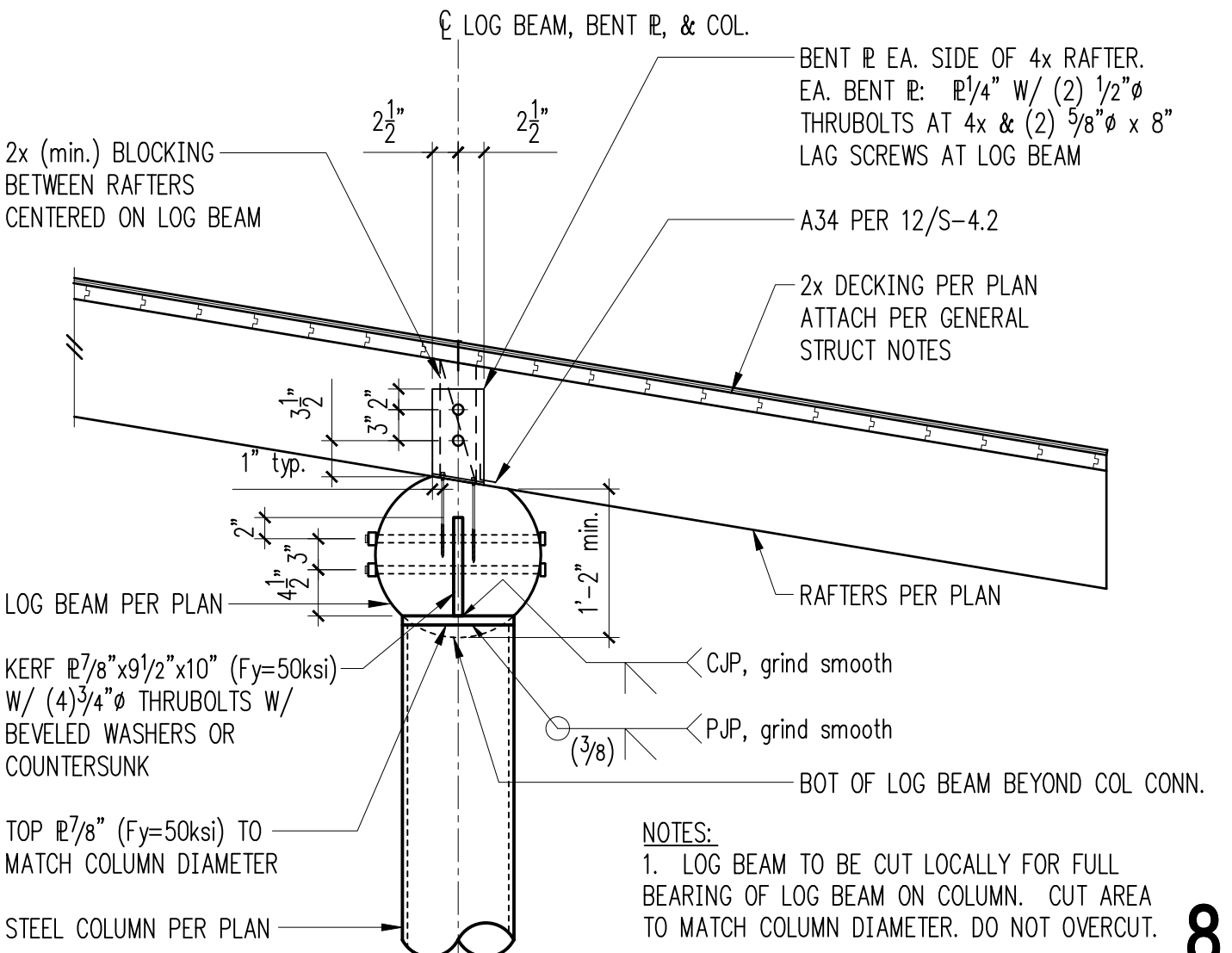
1 1/2" = 1'-0"

4

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7

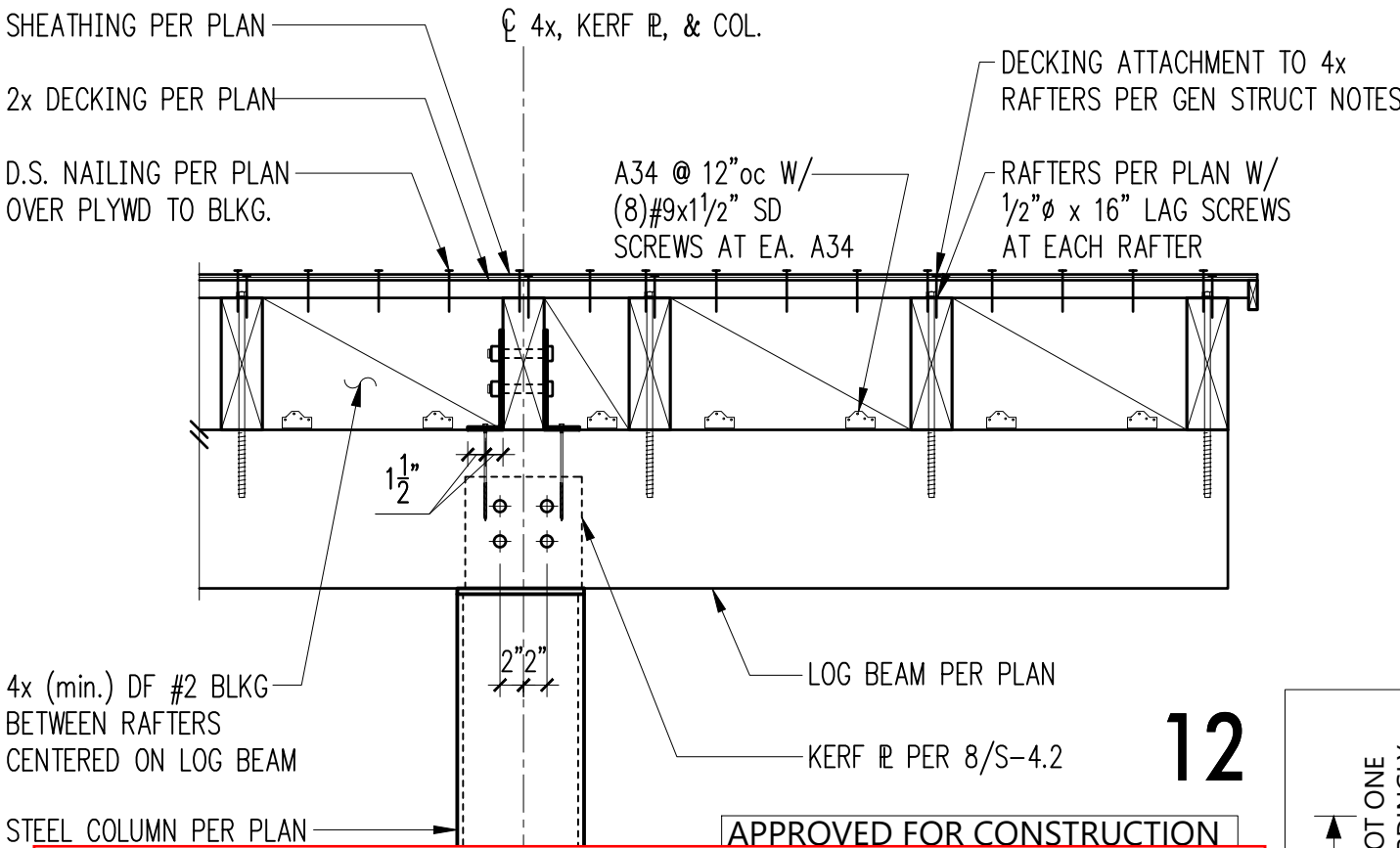


8

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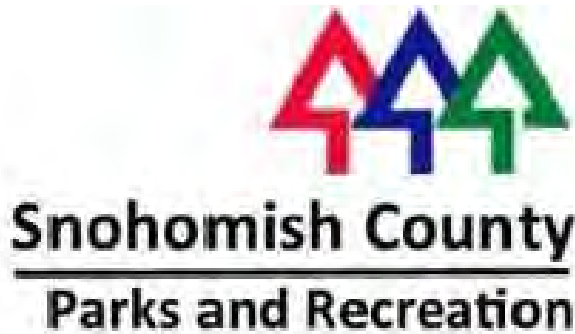
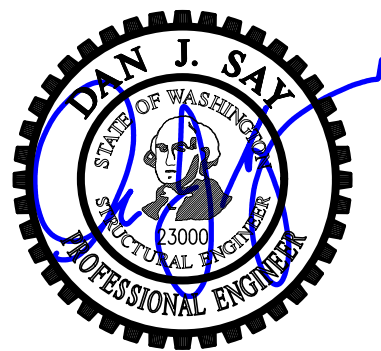
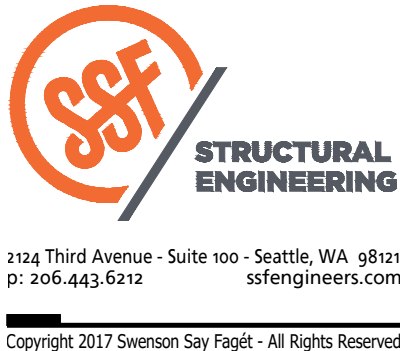
11



12

RECORD DRAWINGS
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ONE INCH
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REVISIONS				
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DESIGNED BY: LSD
DRAWN BY: NHD
CHECKED BY: DJS
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SCALE: 3/4" = 1'-0" U.N.O.
DATE: February 2023

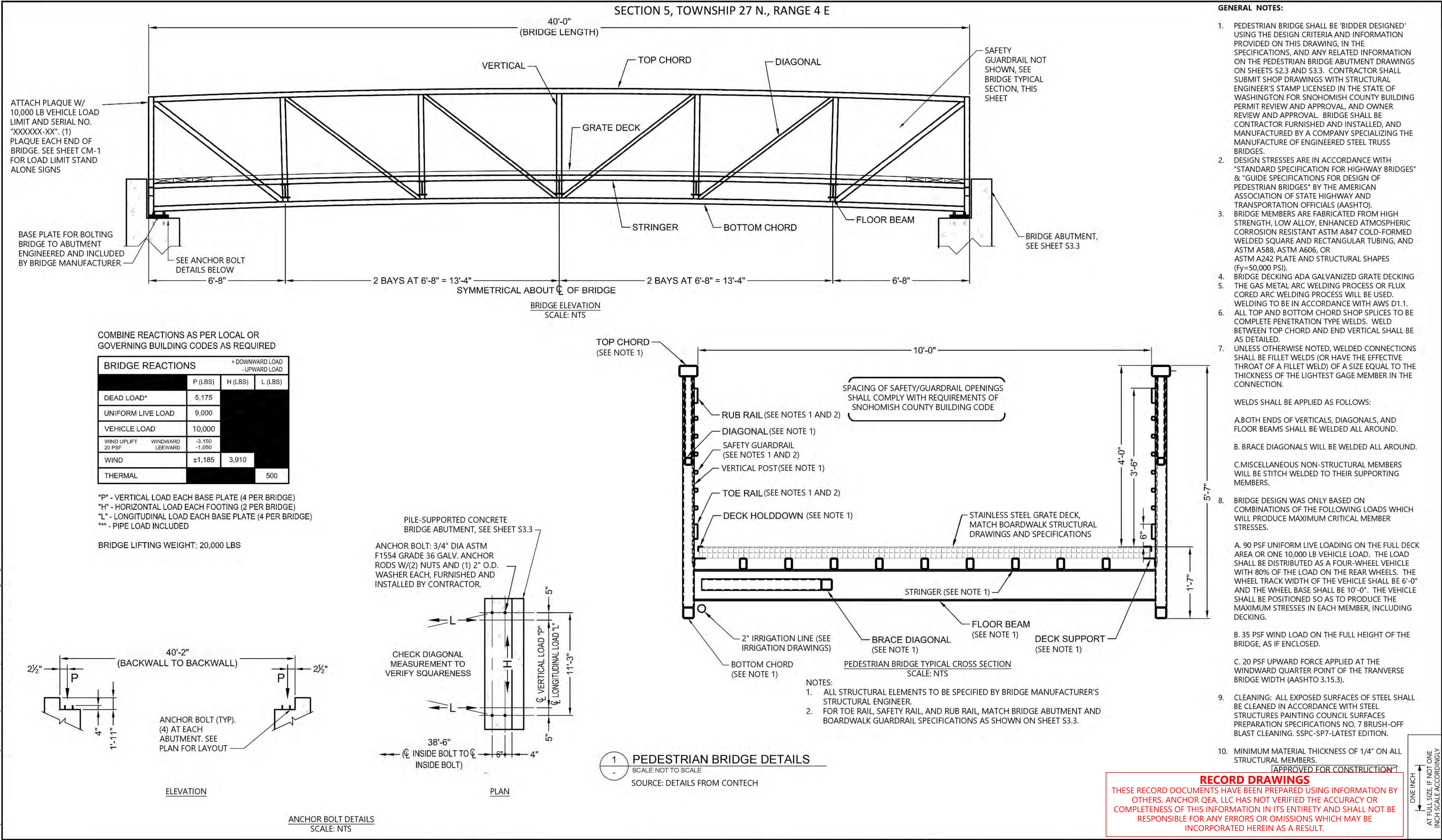
**MEADOWDALE BEACH PARK
AND ESTUARY DESIGN
19-103913LDA**

PICNIC SHELTER STRUCTURAL WOOD DETAILS

S-4.2

SHEET # 13 OF 16

k:\Projects\0723-snohomish county\meadowdale park\construction plans\0723-PL-Pedestrian Bridge.dwg 65 SB-1
Sep 15, 2020 9:06am chewett



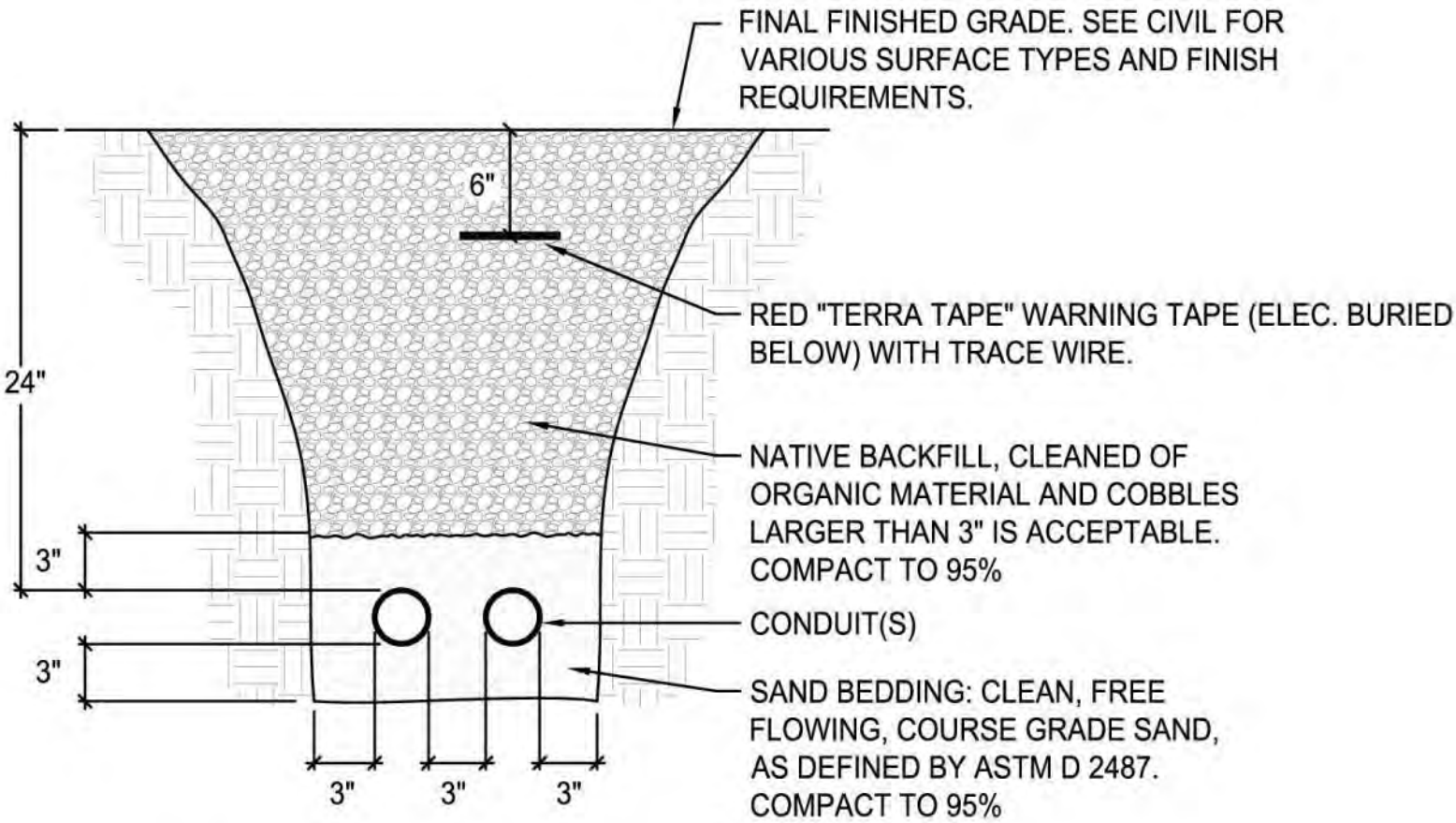
SECTION 5, TOWNSHIP 27 N., RANGE 4 E

GENERAL NOTES:

1. ALL NEW CONDUITS PASSING UNDER NEW OR EXISTING CONCRETE/ASPHALT SHALL BE INDIVIDUALLY SLEEVED TO MINIMUM 12" PAST CONCRETE/ASPHALT.
2. ALL WIRING SHALL BE COPPER, XHHW-2 INSULATION RATING.
3. CONTRACTOR SHALL PROVIDE IN LINE, "FINGER" SPLICES, AT ALL DEVICE TERMINATION POINTS WHERE LUGS REQUIRE REDUCED WIRE SIZE.
4. ELECTRICAL BID REQUIREMENTS ARE NOT LIMITED TO ELECTRICAL DRAWINGS. THERE IS ADDITIONAL ELECTRICAL WORK REQUIRED TO BE INCLUDED IN THE ELECTRICAL BID, INDICATED ON ARCHITECTURAL, LANDSCAPE, CIVIL, DEMOLITION AND UTILITY DRAWINGS. CONTRACTOR IS REQUIRED TO REVIEW ALL DRAWINGS.

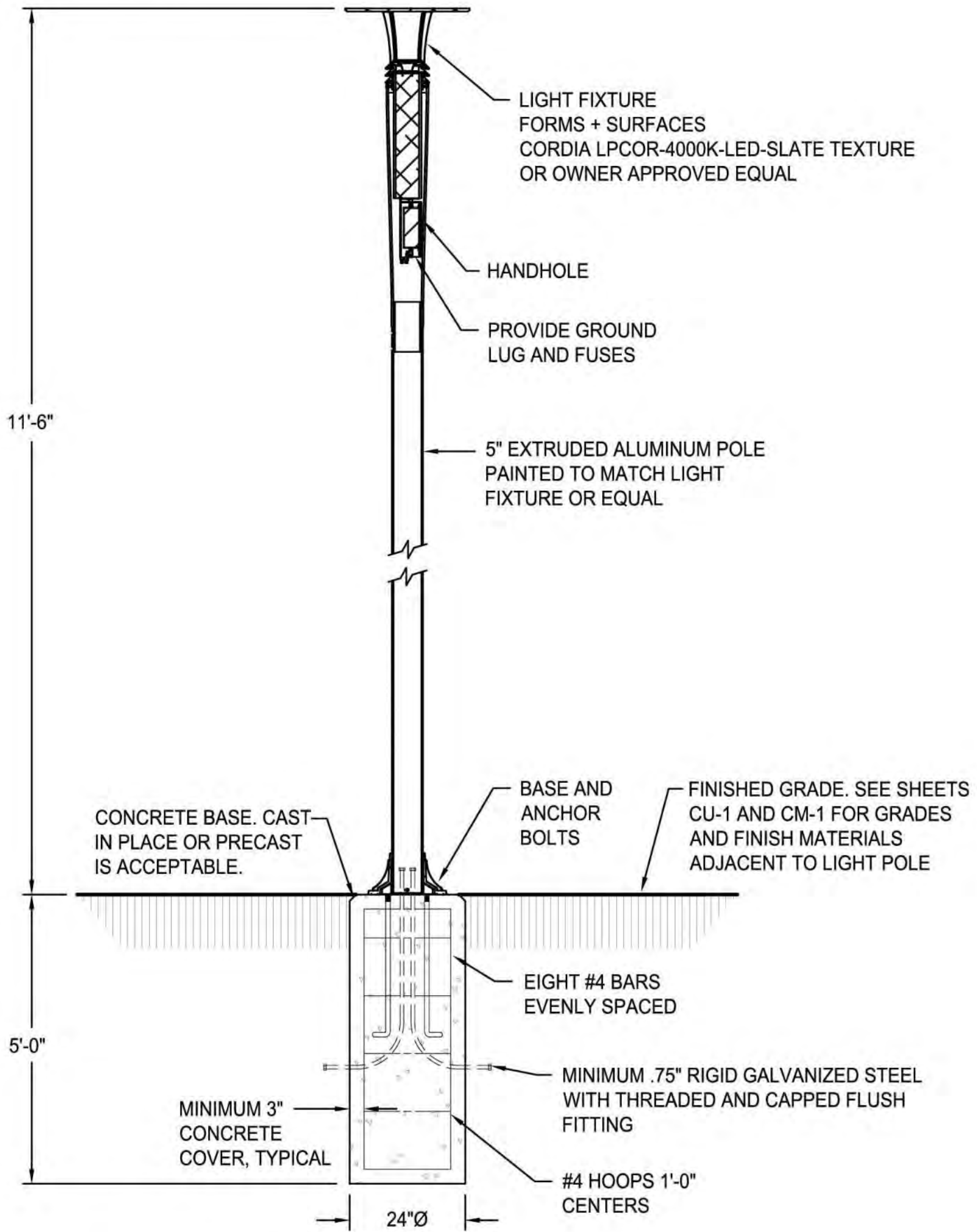
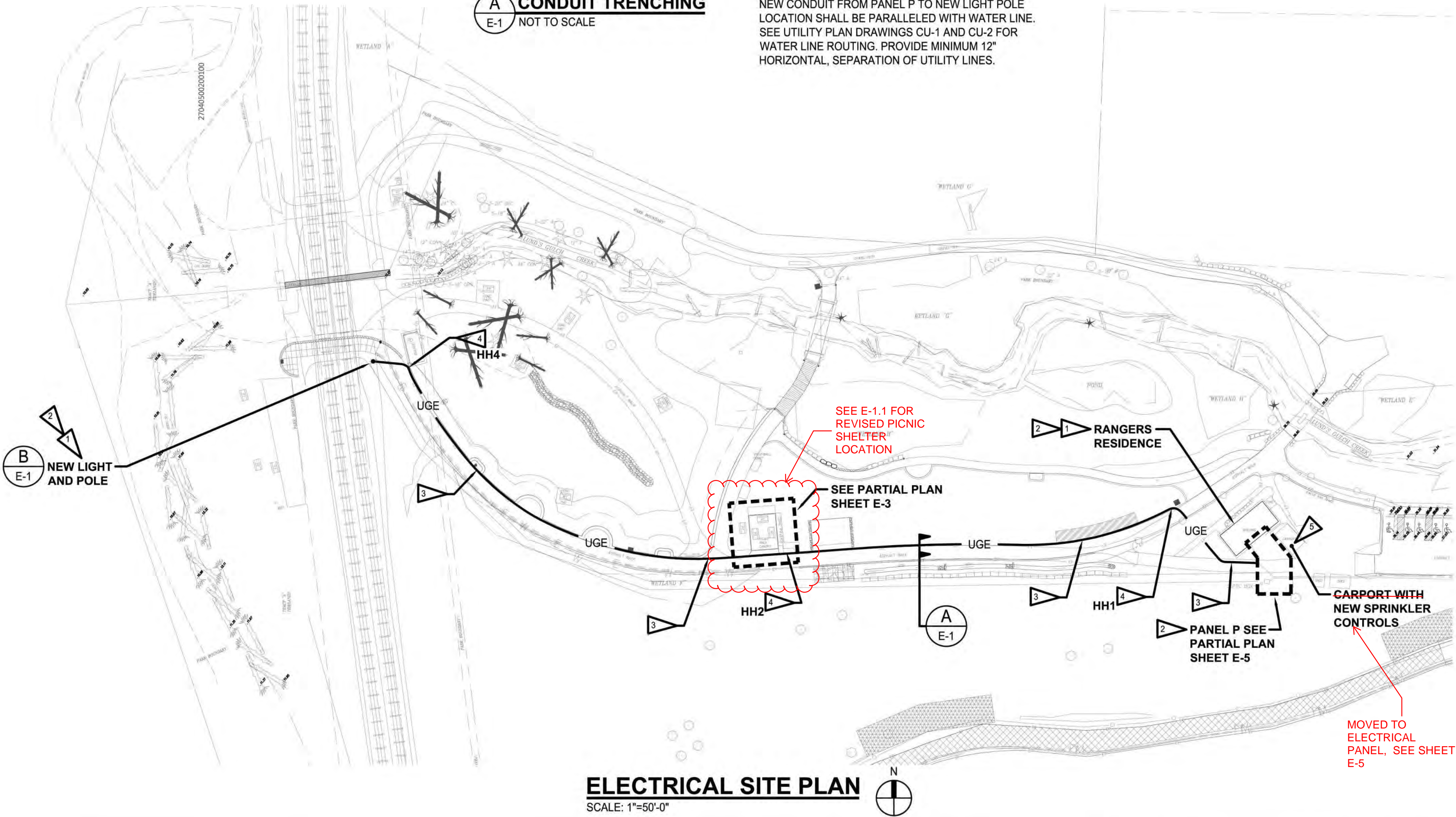
ELECTRICAL NOTES:

1. CONTRACTOR SHALL FIELD VERIFY AND REMOVE EXISTING(E) CONCRETE, DIRECT BURIED, LIGHT POLE AT THIS LOCATION, SEE SHEET D-1. DISCONNECT (E)SWITCH AT RANGERS RESIDENCE AND REMOVE WIRE FROM (E)PANEL R TO (E)SWITCH IN INTERIOR OF HOUSE. (E)CONDUIT(2") ON THE SOUTH SIDE OF THE (E)WALKWAY FROM RESIDENCE TO (E)PICNIC SHELTER AND (E)LIGHT POLE MAY BE ABANDONED. (E)WIRE AND HANDHOLES SHALL BE REMOVED.
2. STAKE LOCATIONS OF NEW LIGHT POLE, TRENCH ROUTE AND OBTAIN OWNER APPROVAL PRIOR TO INSTALLATION. PROVIDE 12" HORIZONTAL SEPARATION BETWEEN POWER AND OTHER UTILITIES IN SHARED TRENCHES. PROVIDE NEW 1"C-(3)#8 CU XHHW-2 & (1)#10 CU GRD AND (1)1"C-PULL STRING/TRACER TAPE FOR FUTURE CONNECTIONS BETWEEN PANEL P AND NEW LIGHT POLE LOCATION. SEE PARTIAL PLAN SHEET E-3, E-5 AND DETAILS A AND B THIS SHEET.
3. STAKE LOCATIONS OF NEW UNDERGROUND POWER CONDUITS FROM PANEL P TO NEW LIGHT POLE AND OBTAIN OWNER APPROVAL PRIOR TO INSTALLATION.
4. STAKE HANDHOLE LOCATIONS AND OBTAIN OWNER APPROVAL PRIOR TO INSTALLATION. PROVIDE A WSDOT J-11A PULL BOX AT THIS LOCATION.
5. PROVIDE 3/4"C-(2)#10 CU & (1)#10 CU GRD FROM PANEL P TO NEW SPRINKLER CONTROLLER LOCATED IN ~~CARPOR~~ AT ELECTRICAL PANEL, AS SHOWN ON SHEET E-5



A CONDUIT TRENCHING
E-1 NOT TO SCALE

NOTE:
NEW CONDUIT FROM PANEL P TO NEW LIGHT POLE LOCATION SHALL BE PARALLELED WITH WATER LINE. SEE UTILITY PLAN DRAWINGS CU-1 AND CU-2 FOR WATER LINE ROUTING. PROVIDE MINIMUM 12" HORIZONTAL, SEPARATION OF UTILITY LINES.



B LIGHT POLE AND CONCRETE BASE
E-1 NOT TO SCALE

APPROVED FOR CONSTRUCTION

RECORD DRAWINGS

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REVISIONS					DESCRIPTION
REV	DATE	BY	APP'D		
1	10/15/23	MJR			RECORD DWGS

DESIGNED BY: GLW
DRAWN BY: JAE
CHECKED BY: GLW/SLH
APPROVED BY: GLW/SLH
SCALE: AS NOTED
DATE: AUGUST, 2020

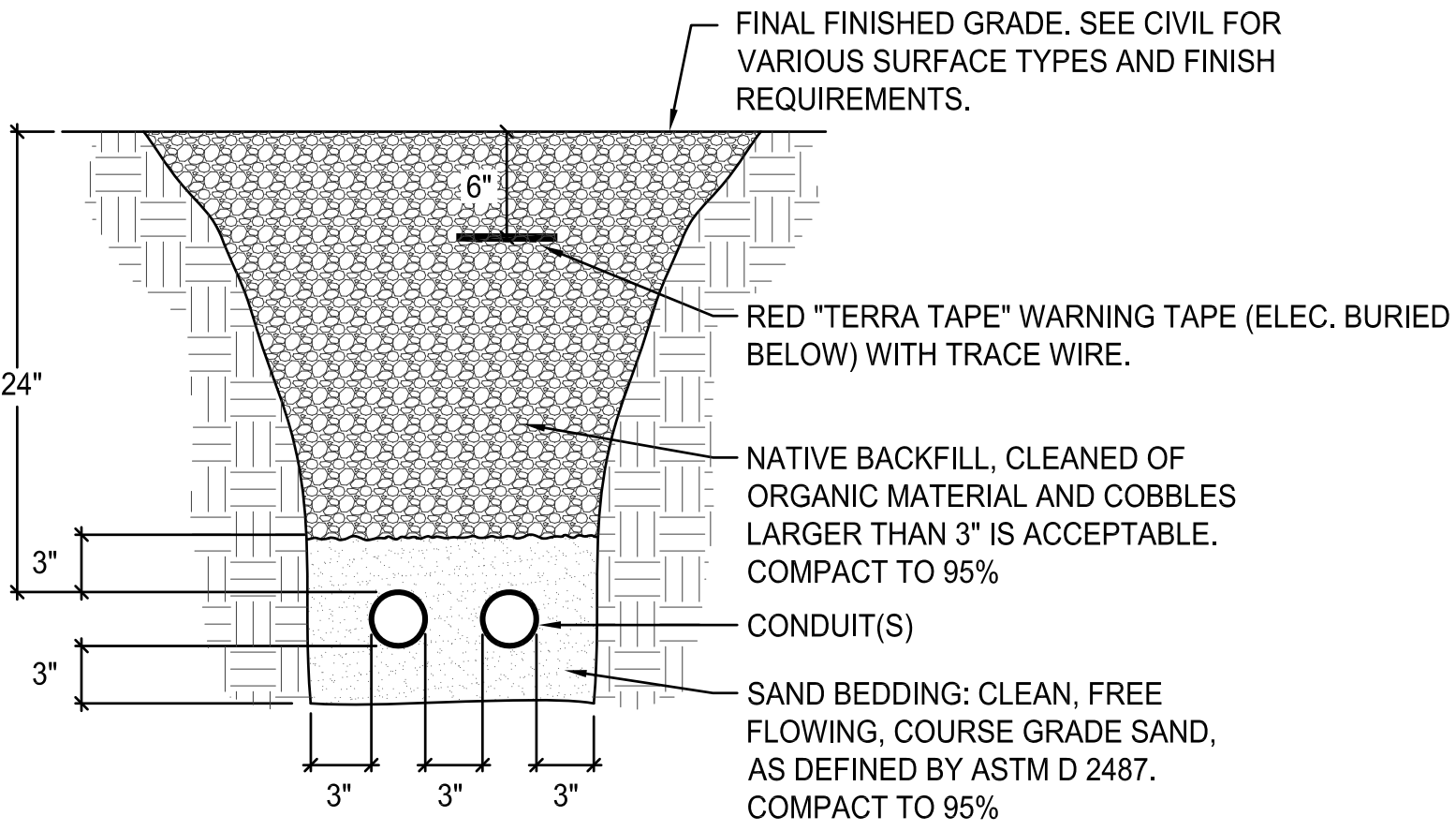
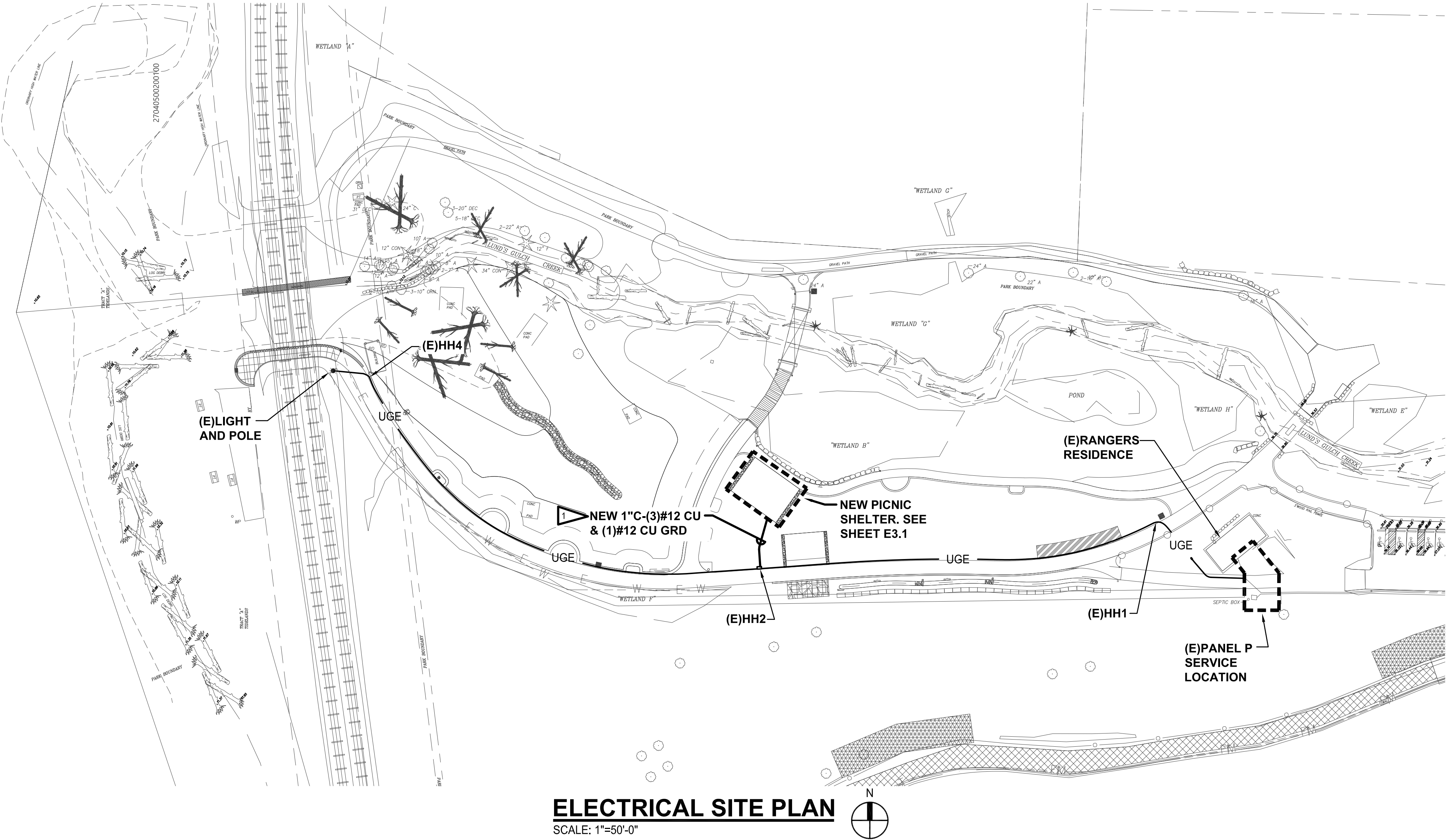
GENERAL NOTES:

1. ALL WIRING SHALL BE COPPER, XHHW-2 INSULATION RATING.
2. ALL BELOW GRADE CONDUIT SHALL BE PVC SCHEDULE 40. ALL ABOVE GRADE CONDUIT SHALL BE RIGID GALVANIZED STEEL.
3. ELECTRICAL BID REQUIREMENTS ARE NOT LIMITED TO ELECTRICAL DRAWINGS. THERE IS ADDITIONAL ELECTRICAL WORK REQUIRED TO BE INCLUDED IN THE ELECTRICAL BID, INDICATED ON ARCHITECTURAL, LANDSCAPE, CIVIL, DEMOLITION AND UTILITY DRAWINGS. CONTRACTOR IS REQUIRED TO REVIEW ALL DRAWINGS.

ELECTRICAL NOTES:

1

CONTRACTOR SHALL PROVIDE NEW CONDUIT AND CONDUCTORS FROM EXISTING HANDHOLE HH2 TO NEW HANDHOLE ADJACENT TO NEW PICNIC SHELTER. SEE SHEET E3.1 FOR NEW PICNIC SHELTER LAYOUT. INTERCEPT EXISTING PICNIC SHELTER (LIGHTING AND RECEPTACLE CIRCUITS) THAT HAVE BEEN REMOVED BACK TO EXISTING HANDHOLE HH2 AND EXTEND TO NEW PICNIC SHELTER TO SERVE NEW DEDICATED RECEPTABLES. EXISTING PICNIC SHELTER LIGHTING CIRCUIT SHALL SERVE NEW RECEPTACLE CIRCUIT AT NEW PICNIC SHELTER. CONTRACTOR SHALL UPDATE PANEL SCHEDULE IN EXISTING PANEL P TO IDENTIFY UPDATED CIRCUITS TO SERVE NEW PICNIC SHELTER RECEPTABLES.



A CONDUIT TRENCHING
E-1.1 NOT TO SCALE

APPROVED FOR CONSTRUCTION

RECORD DRAWINGS

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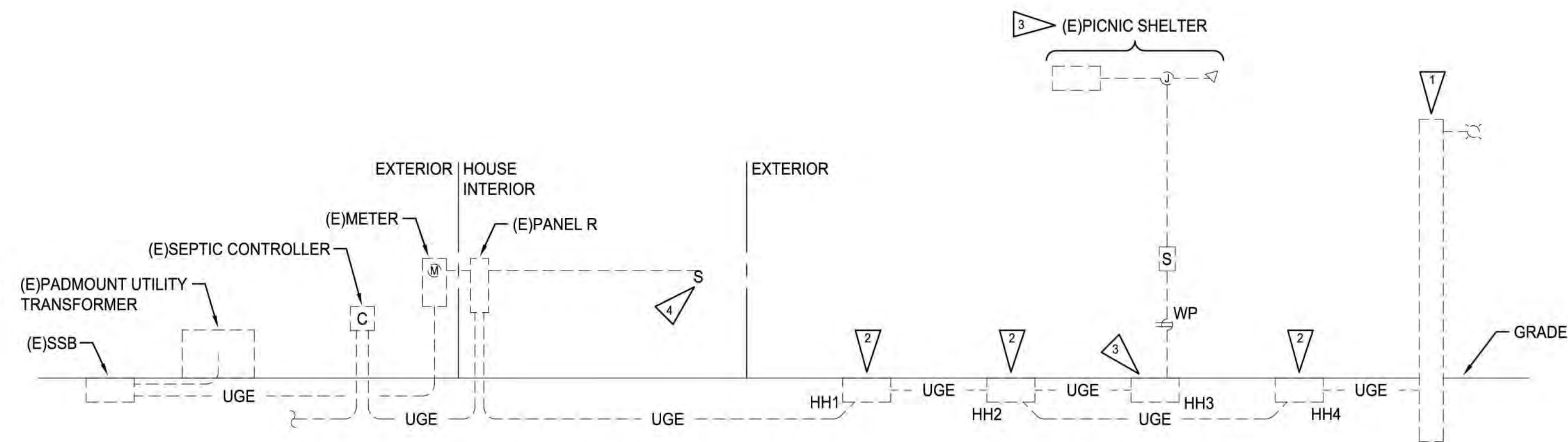
ONE INCH
AT FULL SIZE, IF NOT ONE
INCH SCALE ACCORDINGLY

REVISIONS					DESCRIPTION
REV	DATE	BY	APP'D		

DESIGNED BY: SJK
DRAWN BY: JAE
CHECKED BY: SLH
APPROVED BY: SLH
SCALE: AS NOTED
DATE: FEBRUARY, 2023

DEMOLITION NOTES:

- 1 EXISTING DIRECT BURIAL CONCRETE POLE AND LIGHT FIXTURE TO BE REMOVED AND LEGALLY DISPOSED OF OFF SITE.
- 2 EXISTING HANDHOLES. CONTRACTOR SHALL FIELD LOCATE. REMOVE EXISTING WIRING BACK TO EXISTING HOUSE PANEL R. ABANDON (E)2" CONDUIT AND HANDHOLES. THESE WILL BE REMOVED BY OTHERS AS PART OF NEW CONSTRUCTION.
- 3 EXISTING ROUND HANDHOLE WITH COVER AT EXISTING PICNIC STRUCTURE TO REMAIN. CONTRACTOR TO REMOVE AND REPLACE TWO(2) EXISTING LIGHT FIXTURES. REUSE EXISTING SURFACE CONDUIT. CONTRACTOR TO REMOVE EXISTING WIRE AND INSTALL NEW. SEE PARTIAL PLAN SHEET E3.
- 4 REMOVE LIGHT SWITCH AND WIRE BACK TO EXISTING HOUSE PANEL R. PROVIDE BLANK COVER PLATE.



EXISTING POWER RISER DEMOLITION DIAGRAM
NO SCALE

~~APPROVED FOR CONSTRUCTION~~

RECORD DRAWINGS

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AT FULL SIZE, IF NOT ONE
INCH SCALE ACCORDINGLY

[illegible]

DESIGNED BY: GLW
DRAWN BY: JAE
CHECKED BY: GLW/SLH
APPROVED BY: GLW/SLH
SCALE: AS NOTED
DATE: AUGUST, 2020

**MEADOWDALE BEACH PARK
AND ESTUARY DESIGN**
PFN 19-103913LDA

EXISTING POWER RISER DEMOLITION DIAGRAM

E-2

SHEET # **67** OF **81**

ELECTRICAL NOTES:

- 1

REMOVE EXISTING SURFACE MOUNTED FLOOD LIGHT AND PROVIDE ILP - FML55WLEDUNIV40BMAPC120VGSWG OR OWNER APPROVED EQUAL. CONTROL IS VIA TIMECLOCK AT MAIN ELECTRICAL SERVICE. SEE POWER RISER DIAGRAM SHEET E4.
- 2

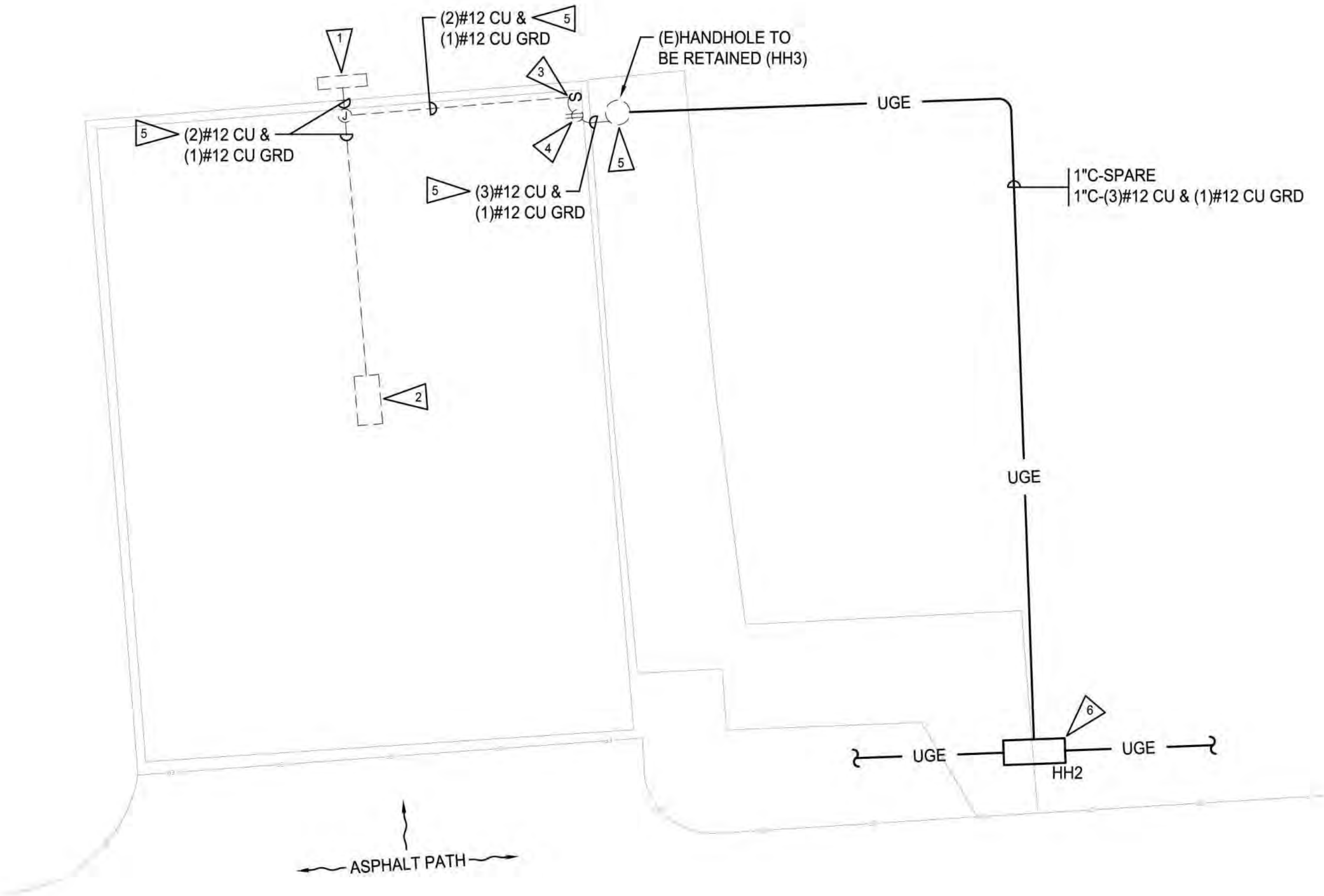
REMOVE EXISTING SURFACE MOUNTED LIGHT FIXTURE AND PROVIDE ILP - CP7LU40MWS OR OWNER APPROVED EQUAL. CONTROL IS VIA TIMECLOCK AT MAIN ELECTRICAL SERVICE. SEE POWER RISER DIAGRAM SHEET E4.
- 3

REMOVE EXISTING TOGGLE SWITCH AND PROVIDE NEW BLANK COVER.
- 4

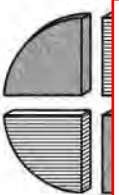
REMOVE EXISTING SURFACE MOUNT DUPLEX RECEPTACLE, BOX AND PROVIDE NEW, 20A, 120V, DUPLEX, GFCI RECEPTACLE IN NEW DOUBLE GANG CAST BOX WITH NEMA 3R, "IN USE" PADLOCKABLE COVER.
- 5

REMOVE EXISTING WIRE PAST (E)HANDHOLE TO REMAIN FOR PICNIC SHELTER AND PROVIDE NEW WIRE TO ALL DEVICES. REUSE EXISTING CONDUIT.
- 6

STAKE HANDHOLE LOCATION AND OBTAIN OWNER APPROVAL PRIOR TO INSTALLATION OF HANDHOLE AND CONDUIT ROUTING IN THIS AREA.



EXISTING PICNIC CANOPY ELECTRICAL PLAN
SCALE: 1/4"=1'-0"



APPROVED FOR CONSTRUCTION

RECORD DRAWINGS

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REVISIONS				
REV	DATE	BY	APP'D	DESCRIPTION

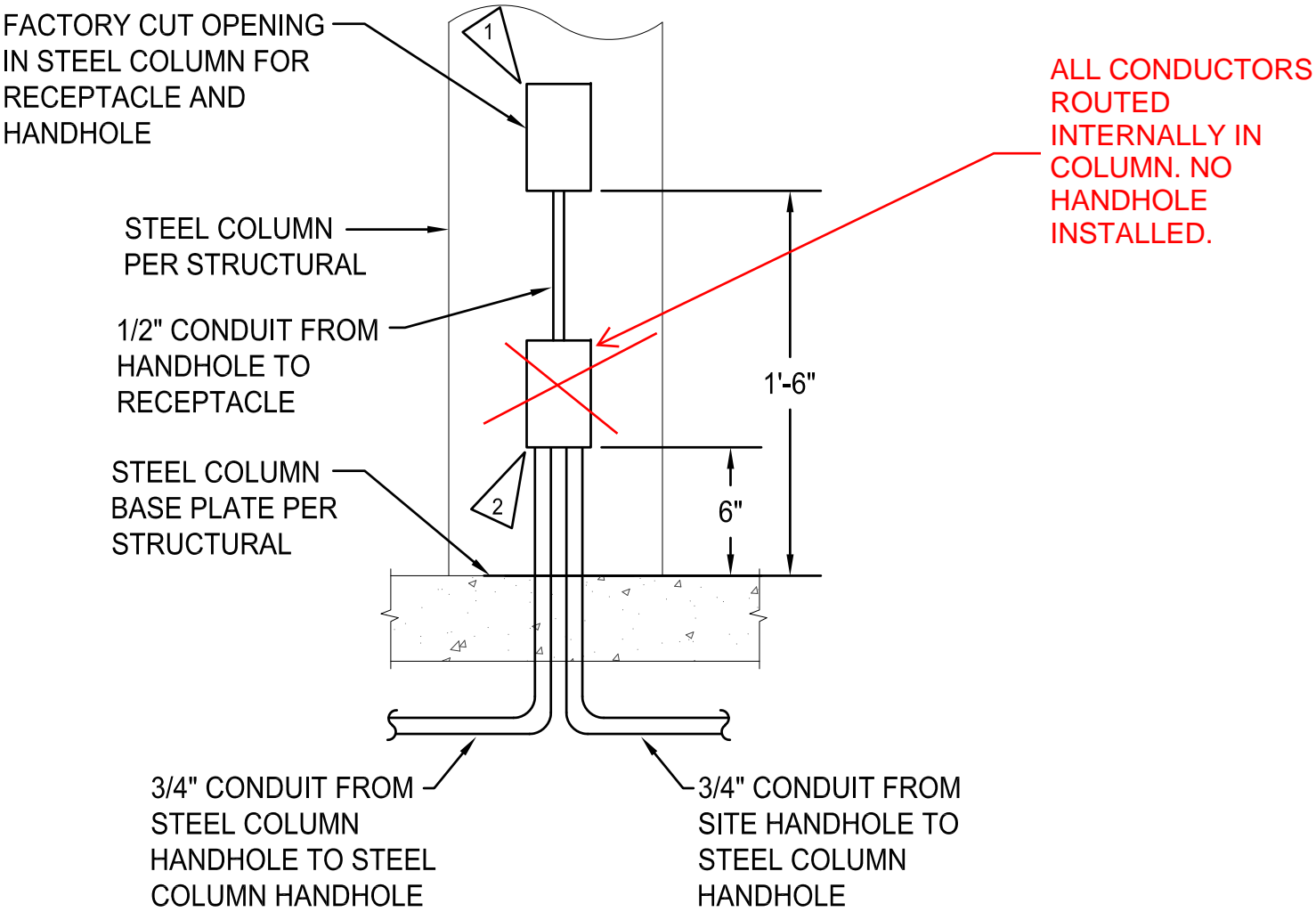
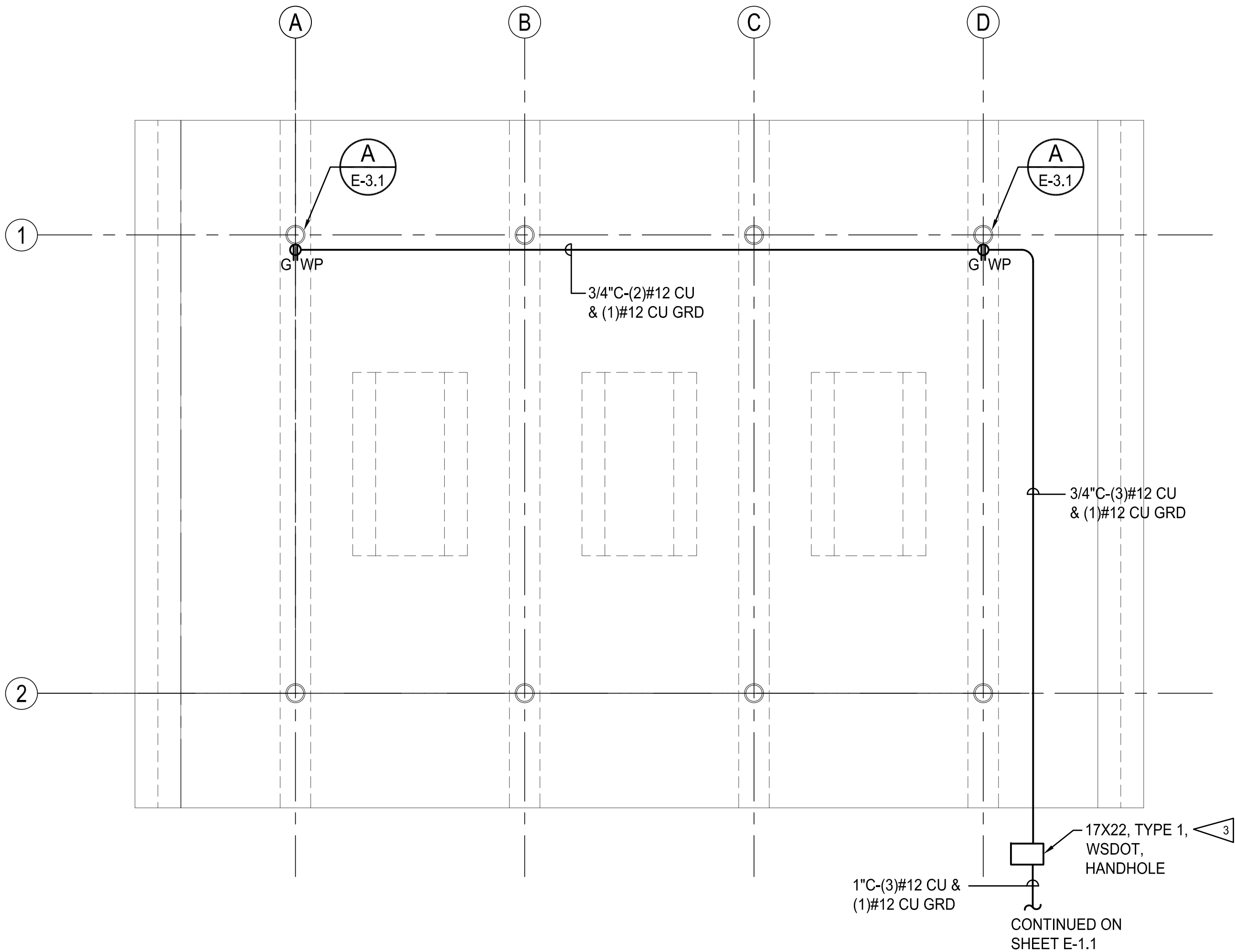
ELECTRICAL NOTES:

- 1

CONTRACTOR SHALL PROVIDE RECEPTACLE BACKBOX WITH 125V, 20A, GFI, DUPLEX RECEPTACLE AND STAINLESS STEEL, NEMA 3R "IN USE" COVER.
- 2

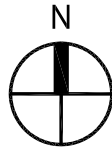
CONTRACTOR SHALL PROVIDE BACKBOX WITH STAINLESS STEEL COVER AND TAMPER RESISTANT SCREWS.
- 3

CONTRACTOR SHALL PROVIDE 17' X 22' (OUTSIDE DIMENSIONS), TYPE 1, WSDOT, JUNCTION BOX WITH LOCKING COVER. LID SHALL BE FLUSH WITH FINISHED GRADE.



A E-3.1 **STEEL COLUMN RECEPTACLE DETAIL**
NOT TO SCALE

NEW PICNIC SHELTER ELECTRICAL PLAN
SCALE: 1/4"=1'-0"



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1	10/15/23	MJR		RECORD DWGS	

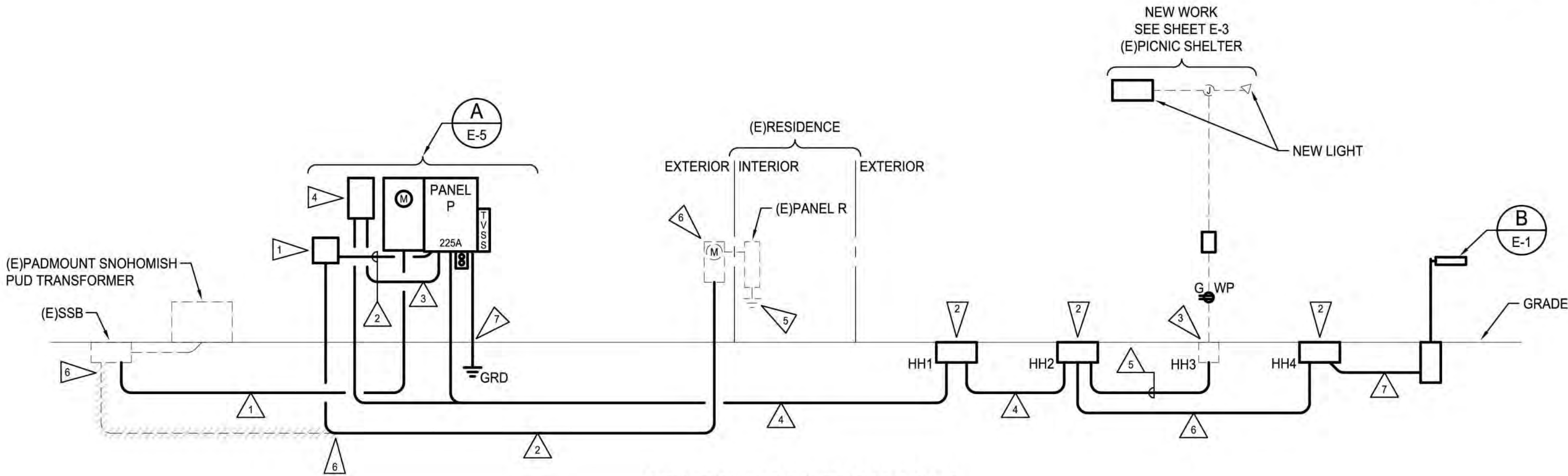
DESIGNED BY: SJK
DRAWN BY: JAE
CHECKED BY: SLH
APPROVED BY: SLH
SCALE: AS NOTED
DATE: FEBRUARY, 2023

ELECTRICAL NOTES:

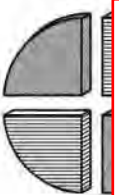
- 1
- NEMA 3R, SERVICE ENTRANCE RATED, ENCLOSED, 200A, 240V, 1PH, 25,000 AIC CIRCUIT BREAKER.
- 2
- PROVIDE RECTANGULAR PULL BOX 14" x 19" x 12" WITH "ELECTRIC" LID. WSDOT J-11A OR OWNER APPROVED EQUAL. SEE SHEET E-1, ELECTRICAL NOTE 4.
- 3
- RETAIN EXISTING IN GROUND HANDHOLE.
- 4
- PROVIDE NEMA 4X, HINGED AND PAD LOCKABLE, 12"x12"x8" BOX WITH ASTRONOMICAL TIMECLOCK TORK EWZ103 OR OWNER APPROVED EQUAL.
- 5
- REMOVE EXISTING HOUSE SERVICE GROUND AND CONNECT NEW GROUND FROM SERVICE PANEL P.
- 6
- REMOVE EXISTING SERVICE WIRES FROM (E)SSB TO (E)PANEL R METER. REMOVE METER AND TURN OVER TO UTILITY. CONTRACTOR MAY INTERCEPT EXISTING CONDUIT AND REUSE.
- 7
- PROVIDE (2)10'-0" x 3/4" COPPER CLAD STEEL GROUND RODS SPACED NO LESS THAN 10 FEET APART. PROVIDE #6 BARE CU BETWEEN EACH GROUND ROD AND UP TO EQUIPMENT MOUNTING STRUCTURE AND ELECTRICAL PANEL.

CONDUIT AND CONDUCTOR SCHEDULE:

- 1
- 2-1/2"C-(3)#300 KCM AL
- 2
- 2-1/2"C-(3)#300 KCM AL & (1)#2 AL GRD
- 3
- 1"C-(3)#10 CU & (1)#10 CU GRD
- 4
- (1)2"C-EMPTY WITH PULLSTRING - FROM PANEL P
(1)2"C-(3)#8 CU & (1)#8 CU GRD FROM TIMECLOCK
- 5
- (1)1"C-EMPTY WITH PULLSTRING
(1)1"C-(3)#12 CU & (1)#12 CU GRD
- 6
- (1)2"C-EMPTY WITH PULLSTRING
(1)2"C-(2)#8 CU & (1)#8 CU GRD
- 7
- 1"C-(2)#8 CU & (1)#8 CU GRD



NEW POWER RISER DIAGRAM
NO SCALE



APPROVED FOR CONSTRUCTION

RECORD DRAWINGS

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CHECKED BY: GLW/SLH
APPROVED BY: GLW/SLH
SCALE: AS NOTED
DATE: AUGUST, 2020

CONDUIT AND CONDUCTOR SCHEDULE:

- 1

(E)2-1/2"C-(3)#300 KCM AL
- 2

(E)2-1/2"C-(3)#300 KCM AL & (1)#2 AL GRD
- 3

V1"C-(3)#10 CU & (1)#10 CU GRD
- 4

(E)(1)2"C-EMPTY WITH PULLSTRING - FROM PANEL P
(E)(1)2"C-(3)#8 CU & (1)#8 CU GRD FROM TIMECLOCK
- 5

(E)(1)1"C-EMPTY WITH PULLSTRING
(E)(1)1"C-(3)#12 CU & (1)#12 CU GRD
- 6

(E)(1)2"C-EMPTY WITH PULLSTRING
(E)(1)2"C-(2)#8 CU & (1)#8 CU GRD
- 7

(E)1"C-(2)#8 CU & (1)#8 CU GRD
- 8

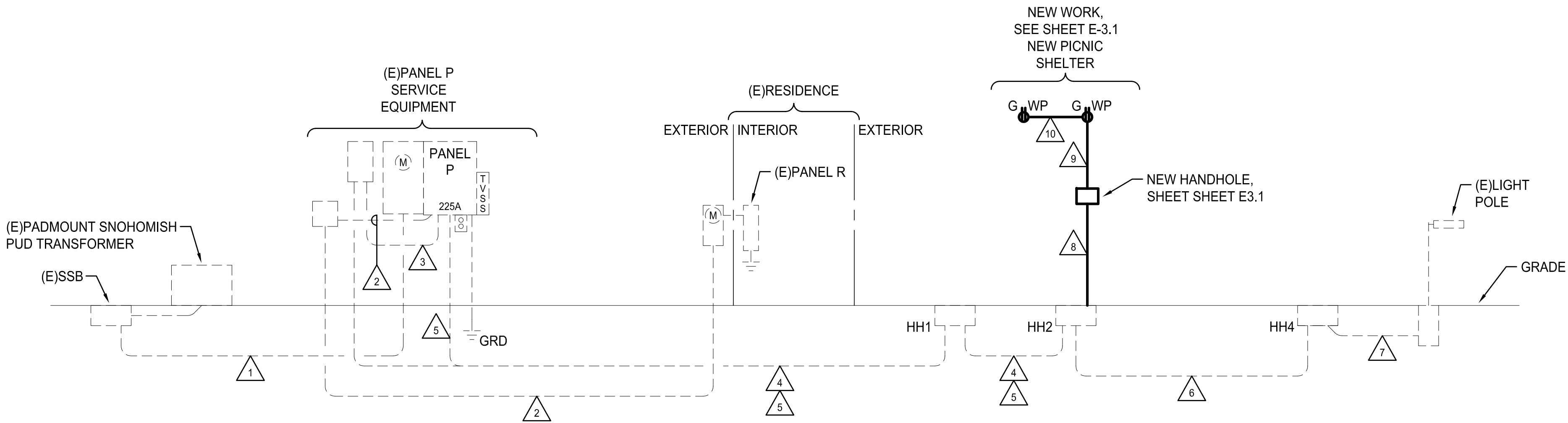
NEW 1"C-(3)#12 CU & (1)#12 CU GRD
- 9

NEW 3/4"C-(3)#12 CU & (1)#12 CU GRD
- 10

NEW 3/4"C-(2)#12 CU & (1)#12 CU GRD

LEGEND:

- EXISTING
- NEW



EXISTING/NEW POWER RISER DIAGRAM
NO SCALE

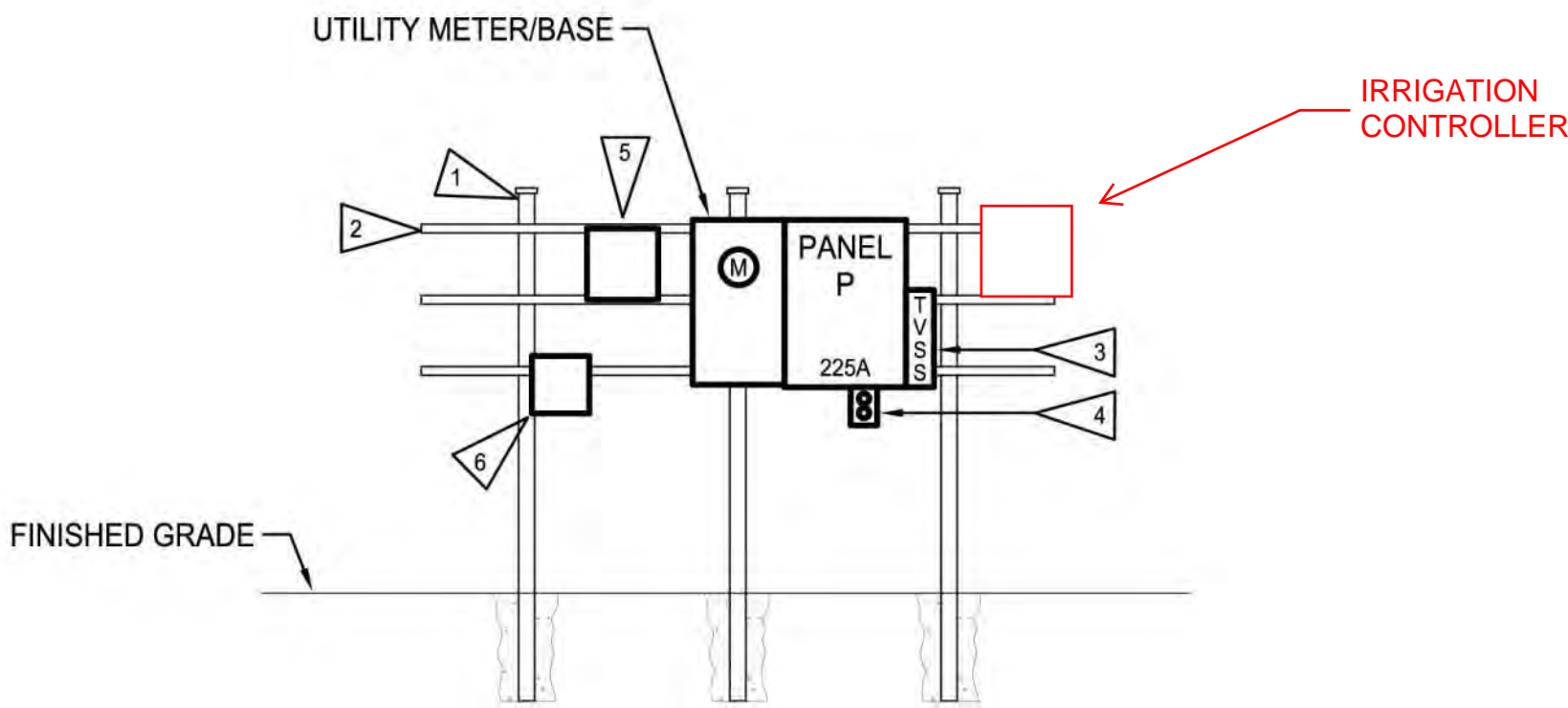
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RECORD DRAWINGS
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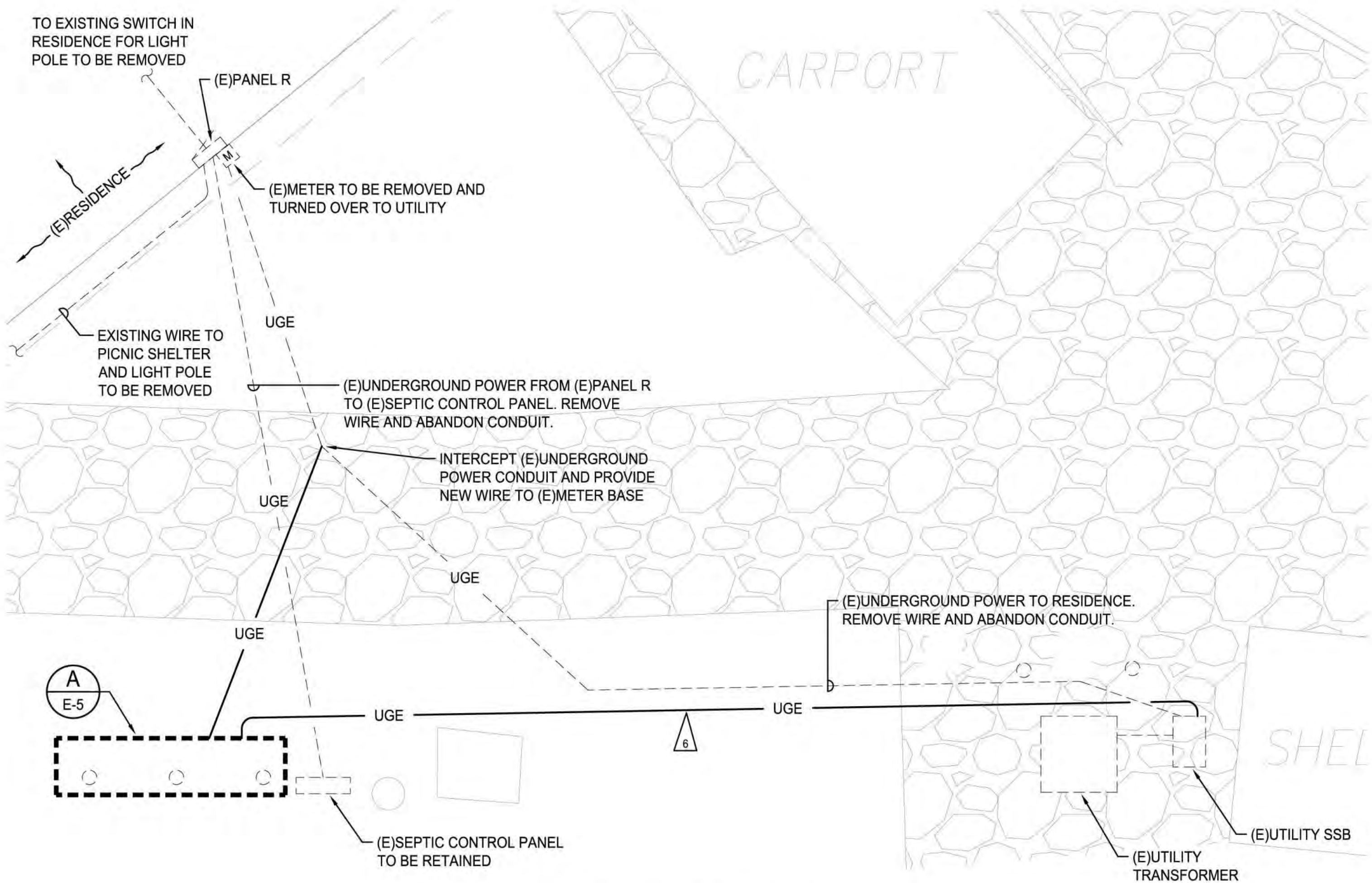
REVISIONS					
REV	DATE	BY	APP'D	DESCRIPTION	

DESIGNED BY: SJK
DRAWN BY: JAE
CHECKED BY: SLH
APPROVED BY: SLH
SCALE: AS NOTED
DATE: FEBRUARY, 2023



ELEVATION

A SERVICE EQUIPMENT MOUNTING
E-5 NOT TO SCALE



PARTIAL ELECTRICAL SITE PLAN
SCALE: 1/4"=1'-0"

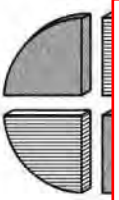
ELECTRICAL NOTES:

- 1 PROVIDE 8'-0" SECTION OF 3" RIGID GALVANIZED STEEL CONDUIT WITH THREADED END CAP. PROVIDE 8" ROUND x 3'-0" DEEP, 3000 PSI, CONCRETE BASE AND EMBED CONDUIT 3'-0" BELOW FINISHED GRADE. TYPICAL OF THREE(3). STAKE LOCATION AND OBTAIN OWNER APPROVAL PRIOR TO INSTALLATION.
- 2 PROVIDE (3)1-5/8" HOT DIP GALVANIZED STRUT BETWEEN RIGID STEEL CONDUIT POSTS FOR MOUNTING EQUIPMENT. DRILL CONDUIT AND PROVIDE STAINLESS STEEL MOUNTING HARDWARE FOR STRUT AND EQUIPMENT MOUNTING.
- 3 PROVIDE NEMA 3R, TRANSIENT VOLTAGE SURGE PROTECTIVE DEVICE (TVSS). SIEMENS TPS3A1115D2 OR OWNER APPROVED EQUAL. PROVIDE 3/4" CONDUIT NIPPLE AND 5#10 CU, WITH 30/2P CIRCUIT BREAKER IN PANEL.
- 4 PROVIDE 120V, 20A, GFCI DUPLEX RECEPTACLE WITH A NEMA 3R "IN-USE" COVER.
- 5 TIMECLOCK. SEE POWER RISER DIAGRAM SHEET E-4.
- 6 ENCLOSED CIRCUIT BREAKER. SEE POWER RISER DIAGRAM SHEET E-4.

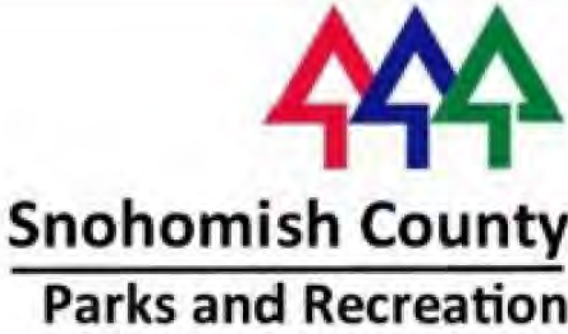
NEMA 3R, GASKETED, DOOR IN DOOR

PANEL SCHEDULE									
SURFACE MOUNTING 25,000 AIC									
NO.		LOCATION: BY PUD TRANSFORMER SERVING: SITE/ RESIDENCE		240/120 VOLTS 1PHASE 3WIRE 225 AMPS WITH 225 MAIN BREAKER					
CKT NO.	LOAD DESCRIPTION	KVA	TRIP AMPS	TRIP AMPS	KVA	LOAD DESCRIPTION	CKT NO.	TRIP AMPS	TRIP AMPS
1	SPACE	-	-	20	-	SPACE	2	-	-
3							4		
5							6		
7							8		
9							10		
11							12		
13						SPARE	14		
15						.18 SHELTER RECEPTACLE	16		
17						.26 SHELTER LTS/POLE LIGHT	18		
19						.20 SPRINKLER CONTROLS	20		
21						.10 TIMECLOCK	22		
23						.10 EMON DMON METER	24		
25				20	.18	RECEPTACLE	26		
27				30	-	TVSS	28		
29	SPACE			2			30		
REMARKS: PROVIDE WITH FEED THRU LUGS TO SERVE EXISTING RESIDENCE PANEL R NEW ENCLOSED CIRCUIT BREAKER.				CONNECTED LOAD: 29.3 KVA 122 AMPS					
				DEMAND LOAD: 29.5 KVA 123 AMPS					

PROVIDE HANDLE TIES FOR ALL MULTI-CIRCUIT HOMERUNS SHARING A NEUTRAL PER THE NATIONAL ELECTRIC CODE ARTICLE 210.4 MULTIWIRE BRANCH CIRCUITS, PART (B) DISCONNECTING MEANS. DRAWINGS ARE DIAGRAMMATIC. WHERE THE CONTRACTOR MODIFIES THE CIRCUITING, THE CONTRACTOR SHALL PROVIDE AN INDIVIDUAL NEUTRAL PER CIRCUIT, MULTI-POLE CIRCUIT BREAKERS, OR CIRCUIT BREAKER HANDLE TIE TO MEET THE NEC ARTICLE. ALL COSTS ASSOCIATED WITH MODIFICATIONS SHALL BE INCLUDED IN THE CONTRACTOR'S BID.



APPROVED FOR CONSTRUCTION
RECORD DRAWINGS
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REVISIONS				
REV	DATE	BY	APP'D	DESCRIPTION

DESIGNED BY: GLW
DRAWN BY: JAE
CHECKED BY: GLW/SLH
APPROVED BY: GLW/SLH
SCALE: AS NOTED
DATE: AUGUST, 2020

MEADOWDALE BEACH PARK
AND ESTUARY DESIGN
PFN 19-103913LDA

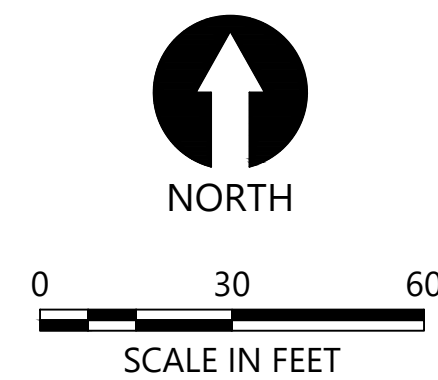
PARTIAL ELECTRICAL SITE PLAN/
DETAILS/SCHEDULES

E-5

SHEET # 70 OF 81

UTILITY LOCATIONS:
ALL UTILITY WORK WITHIN THE BNSF RIGHT-OF-WAY INCLUDING, BUT NOT LIMITED TO, LOCATION, PROTECTION, INSTALLATION, AND RELOCATION OF UTILITIES SHALL COMPLY WITH BNSF'S UTILITY ACCOMMODATION MANUAL ([HTTP://WWW.BNSF.COM/COMMUNITIES/FAQS/PDF/UTILITY.PDF](http://www.bnsf.com/communities/faqs/pdf/utility.pdf)).


FOR ALL WORK OUTSIDE THE BNSF RIGHT-OF-WAY, THE CONTRACTOR SHALL CALL THE ONE-CALL UTILITY CENTER AT 811 OR 1-800-424-5555 FOR UTILITY LOCATIONS NOT LESS THAN TWO (2) BUSINESS DAYS BEFORE DEMOLITION WORK. FOR ADDITIONAL REQUIREMENTS, SEE SHEET G-3.




- NOTES:
1. HORIZONTAL DATUM: WASHINGTON STATE PLANE NORTH ZONE, NAD 83, U.S. FEET.
 2. VERTICAL DATUM: NAVD 88
 3. DRAWINGS ARE INTENDED TO BE VIEWED IN COLOR. SOME INFORMATION WILL BE LOST WITH BLACK AND WHITE VIEWING.
 4. SEE SHEET I-3 FOR IRRIGATION NOTES, LEGEND, AND SCHEDULE.

RECORD DRAWINGS


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720 Olive Way | Suite 1900 | Seattle, WA 98101



Snohomish County
Parks and Recreation



REVISIONS				
REV	DATE	BY	APP'D	DESCRIPTION
1	10-25-23	CH	MR	RECORD DRAWINGS

DESIGNED BY: WS

DRAWN BY: WS

CHECKED BY: PH

APPROVED BY: PH

SCALE: AS NOTED

DATE: OCTOBER 2023

**MEADOWDALE BEACH PARK
AND ESTUARY DESIGN**

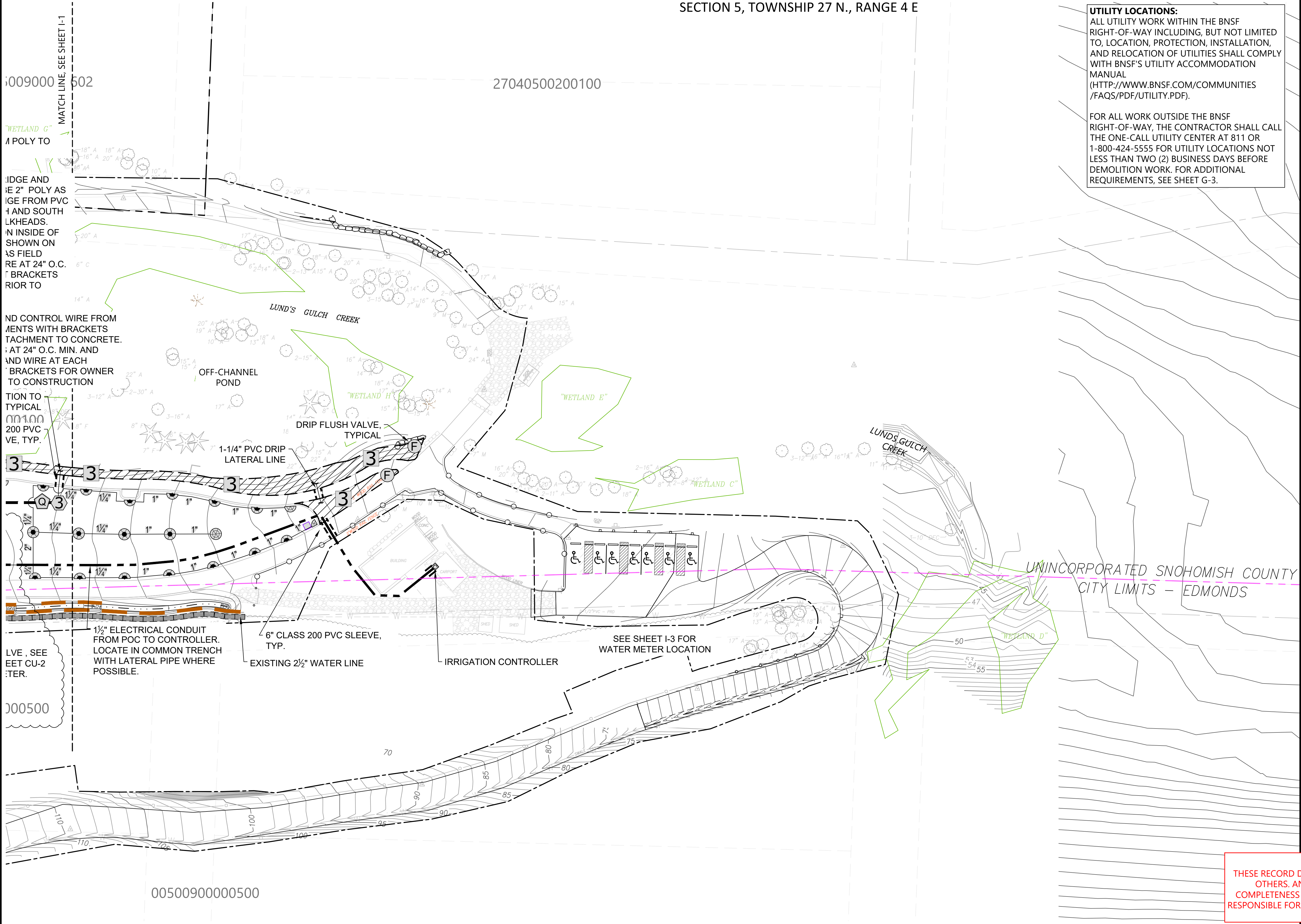
PFN 19-103913LDA

IRRIGATION PLAN (1 OF 3)

I-1

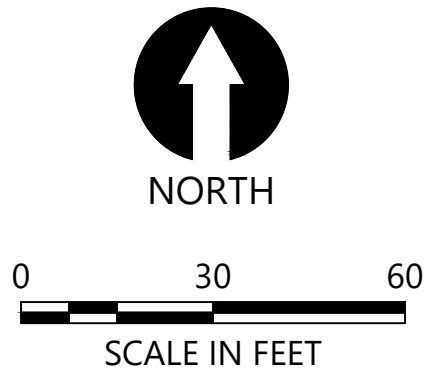
SHEET # **71** OF **82**

SECTION 5, TOWNSHIP 27 N., RANGE 4 E



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- NOTES:
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 - VERTICAL DATUM: NAVD 88
 - DRAWINGS ARE INTENDED TO BE VIEWED IN COLOR. SOME INFORMATION WILL BE LOST WITH BLACK AND WHITE VIEWING.
 - SEE SHEET I-3 FOR IRRIGATION NOTES, LEGEND, AND SCHEDULE.
 - CONTRACTOR SHALL PROVIDE CONTINUOUS UTILITY SERVICE AND DRIVEWAY ACCESS TO RANGER RESIDENCE.

RECORD DRAWINGS
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k:\Projects\0723-snohomish-county\meadowdale-park\construction-plans\0723-IR-Irrigation Plan.dwg 69.1-2
Oct 25, 2023 4:30pm chiewett



REVISIONS					DESCRIPTION
REV	DATE	BY	APP'D		
1	10-25-23	CH	MR		RECORD DRAWINGS

DESIGNED BY: WS
DRAWN BY: WS
CHECKED BY: PH
APPROVED BY: PH
SCALE: AS NOTED
DATE: OCTOBER 2023

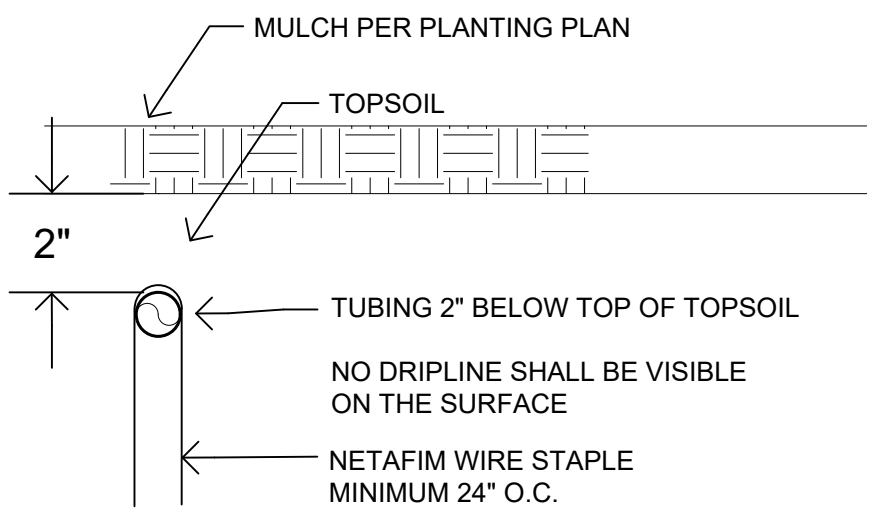
**MEADOWDALE BEACH PARK
AND ESTUARY DESIGN**
PFN 19-103913LDA

IRRIGATION PLAN (2 OF 3)

I-2
SHEET # 72 OF 82

IRRIGATION NOTES

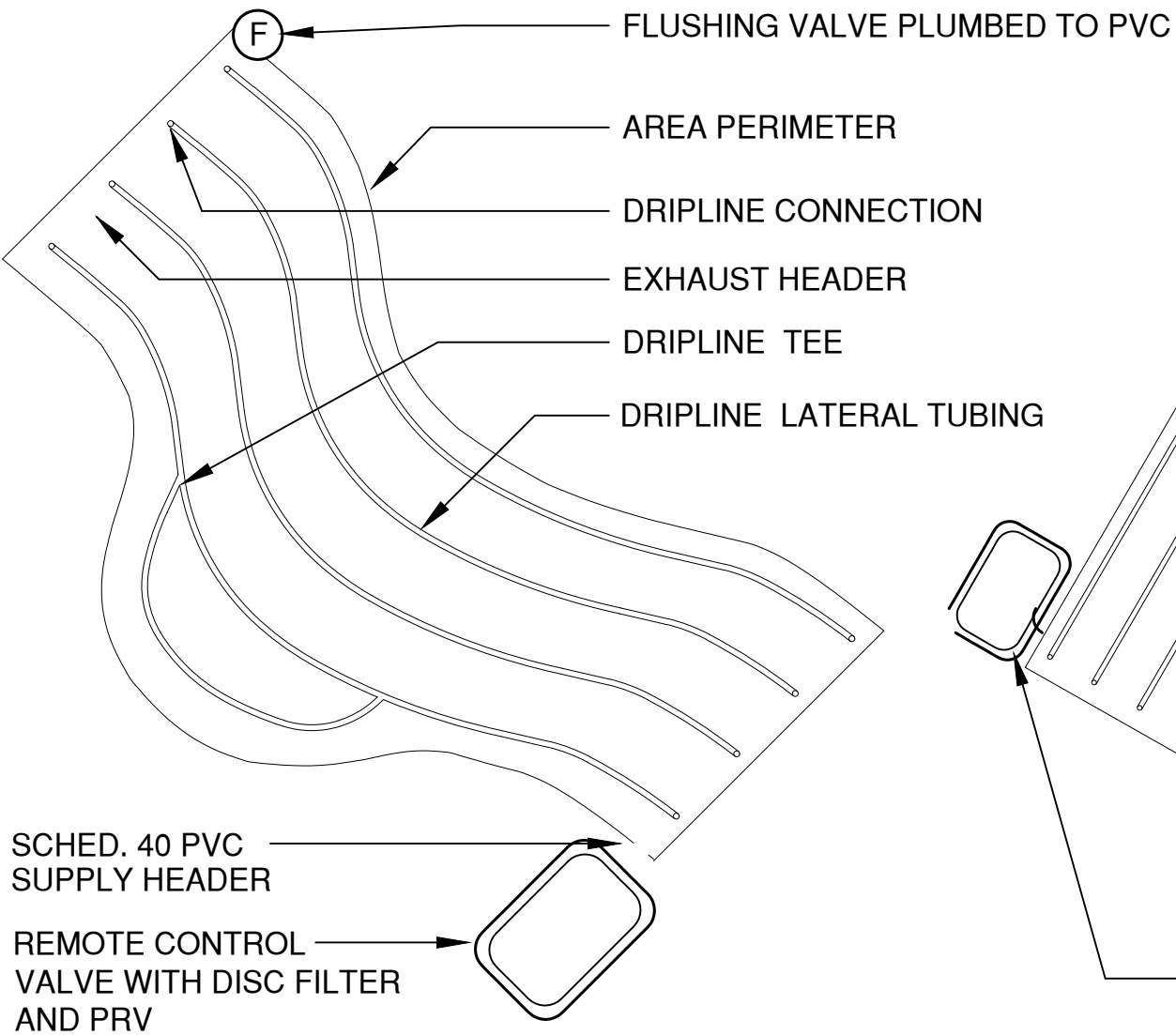
1. PROVIDE SPARE WIRES AT ENDS OF MAINLINE AS INDICATED ON PLAN. LOOP SPARES THROUGH EACH INTERMEDIATE VAULT BACK TO CONTROLLER. LABEL ALL WIRES AS THEY PASS THROUGH EACH VAULT. USE 3M-DBY WIRE CONNECTORS.
2. STAKE ALL VALVE BOX LOCATIONS FOR APPROVAL. PLAN IS DIAGRAMMATIC. NO VAULTS TO BE PLACED WITHIN TURF AREAS OR PLAYFIELDS. SET VALVE BOXES SQUARE TO ADJACENT BUILDING, CURB, OR PAVING.
3. ALL IRRIGATION UNDER BUILDINGS, ROADS, WALKS, PARKING AREAS OR OTHER PAVED SURFACES SHALL BE SLEEVED. SLEEVES SHALL BE 6" MINIMUM, OR AS INDICATED. SLEEVING MAY BE INCLUDED FOR FUTURE WORK. SLEEVES TO MAINTAIN CODE REQUIRED 12" SEPARATION FROM ELECTRIC, STORM, AND OTHER UTILITIES. REFER TO CIVIL, PLUMBING AND OTHER DRAWINGS., AND 36" FOR FIRE LINES.
4. ALL PIPE AND VALVES SHOWN UNDER PAVING ADJACENT AND PARALLEL TO PLANTED AREAS IS INTENDED TO BE PLACED IN THAT AREA WHERE POSSIBLE. ALL MATERIAL TO BE INSTALLED ON OWNERS PROPERTY.
5. INSTALL IN-LINE CHECK VALVES ON LATERAL EVERY 8' OF ELEVATION CHANGE WHERE THERE IS 10' OR MORE OF ELEVATION CHANGE ACROSS A ZONE.
6. MAKE ANY AND ALL REQUIRED ADJUSTMENTS TO THE IRRIGATION PLAN TO ASSURE COMPLETE AND ADEQUATE COVERAGE WITH MINIMUM OVERSPRAY.
7. LATERAL LINES SHALL HAVE 18" OF COVER, AND MAIN LINES 24". 30" MAXIMUM COVER.
8. REFER TO PLANTING PLAN FOR EXACT LAYOUT. INTENT IS THAT ALL NEW PLANTINGS RECEIVE ADEQUATE WATER.
9. TEST STATIC PRESSURE AT POINT OF CONNECTION & SUBMIT WRITTEN RESULTS TO LANDSCAPE ARCHITECT PRIOR TO BEGINNING WORK. PRESSURE IS ANTICIPATED TO BE IN EXCESS OF 100 PSI PER CITY OF EDMONDS WATER.
10. NO PIPING IS PERMITTED UNLESS WATER SUPPLY IS ACTIVE AND AVAILABLE.
11. USE VARIABLE ARC NOZZLES ONLY WHERE FIXED ARC NOZZLES ARE NOT SUFFICIENT.
12. SEE PROJECT SPECIFICATIONS FOR FURTHER INFORMATION AND ADDITIONAL DETAILS.



2 DRIP TUBE SECTION
SCALE: NO SCALE

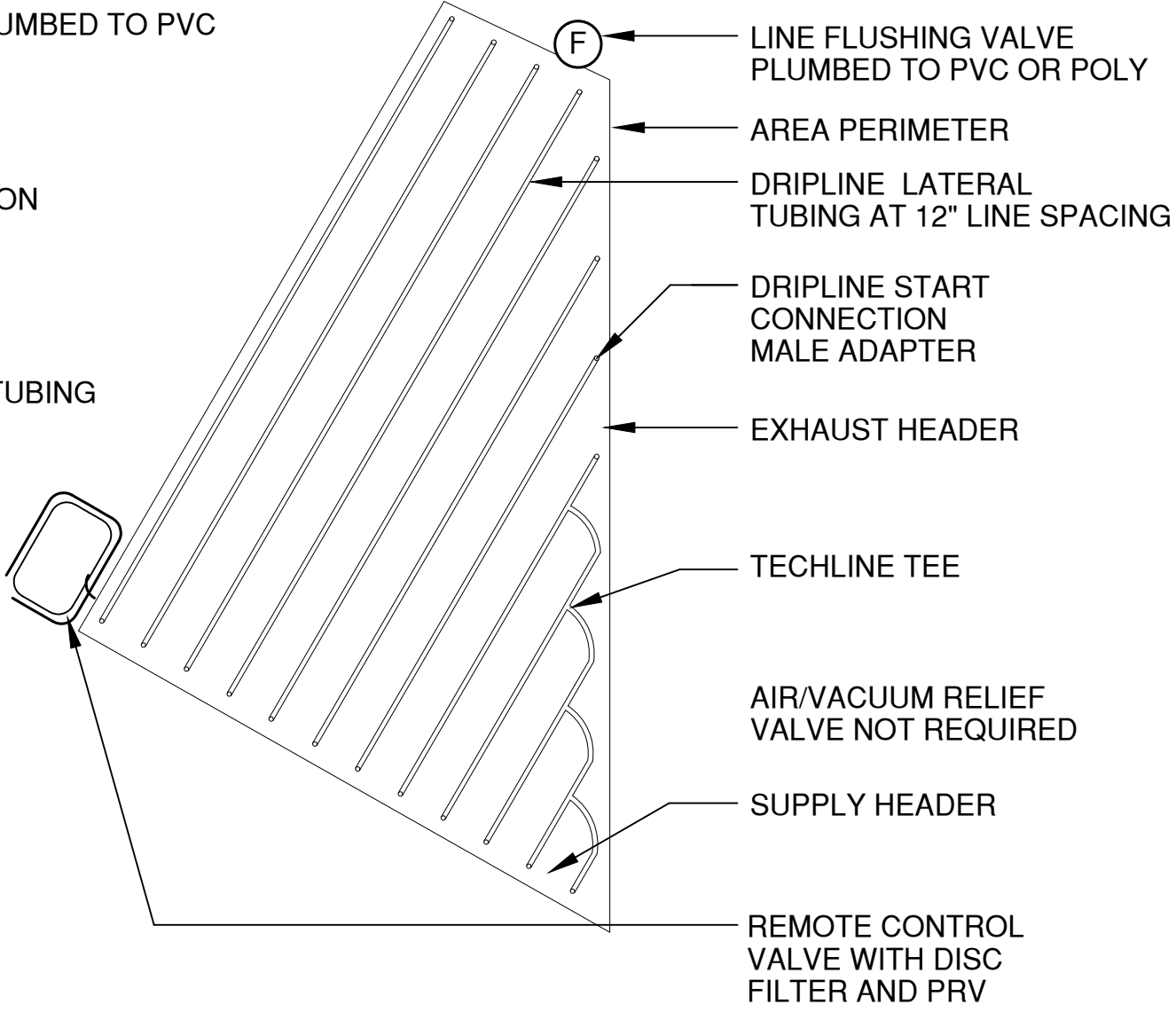
EQUIPMENT SCHEDULE

SYMBOL	DESCRIPTION	P.S.I.	RADIUS	DETAIL
	RAIN BIRD 1806-SAM-PRS-P45 POP-UP WITH HUNTER MP1000 ROTOR NOZZLE	45	15'	
	RAIN BIRD 1806-SAM-PRS-P45 POP-UP WITH HUNTER MP2000 ROTOR NOZZLE	45	20'	
	RAIN BIRD 1806-SAM-PRS-P45 POP-UP WITH HUNTER MP3000 ROTOR NOZZLE	45	30'	
	EXISTING WATER METER IS NOT SHOWN - SEE SHEETS CU-2 AND CU-3			
	AUTOMATIC CONTROL VALVE, RAIN BIRD PEB SERIES PLASTIC, SIZE PER VALVE KEY			
	QUICK COUPLER VALVE - RAIN BIRD 44DLRC			
	CONTROLLER - RAIN BIRD IQ MODEL LXMEF WITH NCC-4G COMMUNICATION CARTRIDGE			
	2" RPBA BACKFLOW ASSEMBLY, PRESSURE REGULATOR AND MASTER VALVE			
	1-1/2" FLOW SENSOR			
	ISOLATION VALVE			
	IN-LINE CHECK VALVE, SAME SIZE AS PIPE. DIMENSION ON AS-BUILT DAILY.			
	NDS 17MM DRIPLINE MODEL SFCV-BR-6212-XX DRIPLINE WITH 0.6 GPH EMITTERS AT 12" SPACING. REFER TO DETAILS SHEET I-3.			
	NETAFIM DRIP FLUSH VALVE			
	2" CLASS 200 PVC IRRIGATION MAINLINE			
	2" 200 PSI RATED POLY PIPE IRRIGATION MAINLINE AT BRIDGE			
	SCHEDULE 40 PVC LATERAL PIPE - SIZE AS INDICATED. MINIMUM 1" SIZE, NO 1/2" OR 3/4" PIPE.			
	CLASS 200 PVC SLEEVE - 6" SIZE UNLESS OTHERWISE INDICATED			
	SYMBOL INDICATING EXTENT OF INDIVIDUAL DRIP IRRIGATION ZONES			
	1-1/2" ELECTRICAL CONDUIT ROUTE FROM POINT OF CONNECTION TO CONTROLLER.			
NOT SHOWN	12 AWS TYPE UF COMMON WIRE = WHITE. 14 AWS TYPE UF CONTROL WIRE, RED, BLACK = SIGNAL, YELLOW, ORANGE= SPARE, LOCATING WIRE = BLUE. PAIGE P7171D COMMUNICATION WIRE FOR CONNECTION FROM FLOW SENSOR TO CONTROLLER.			



IRREGULAR AREAS: ODD CURVES

3 DRIP LINE LAYOUT
SCALE: NO SCALE



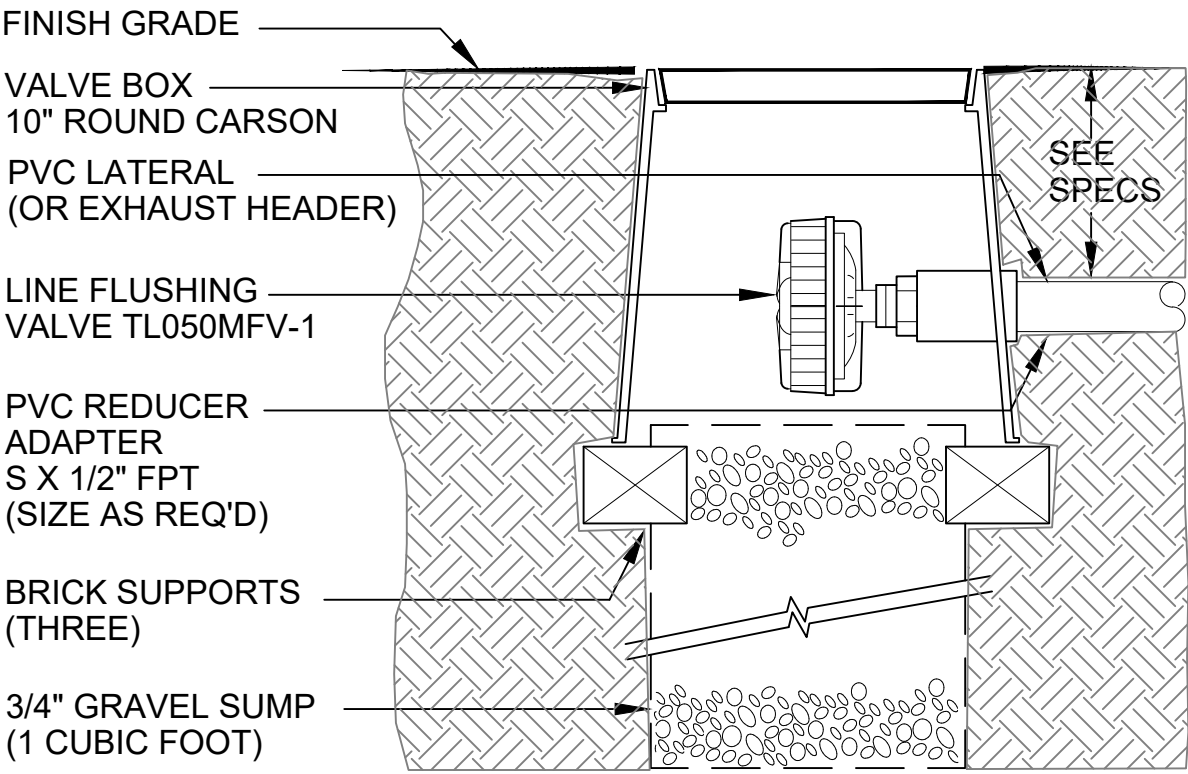
IRREGULAR AREAS: TRIANGULAR

VALVE KEY

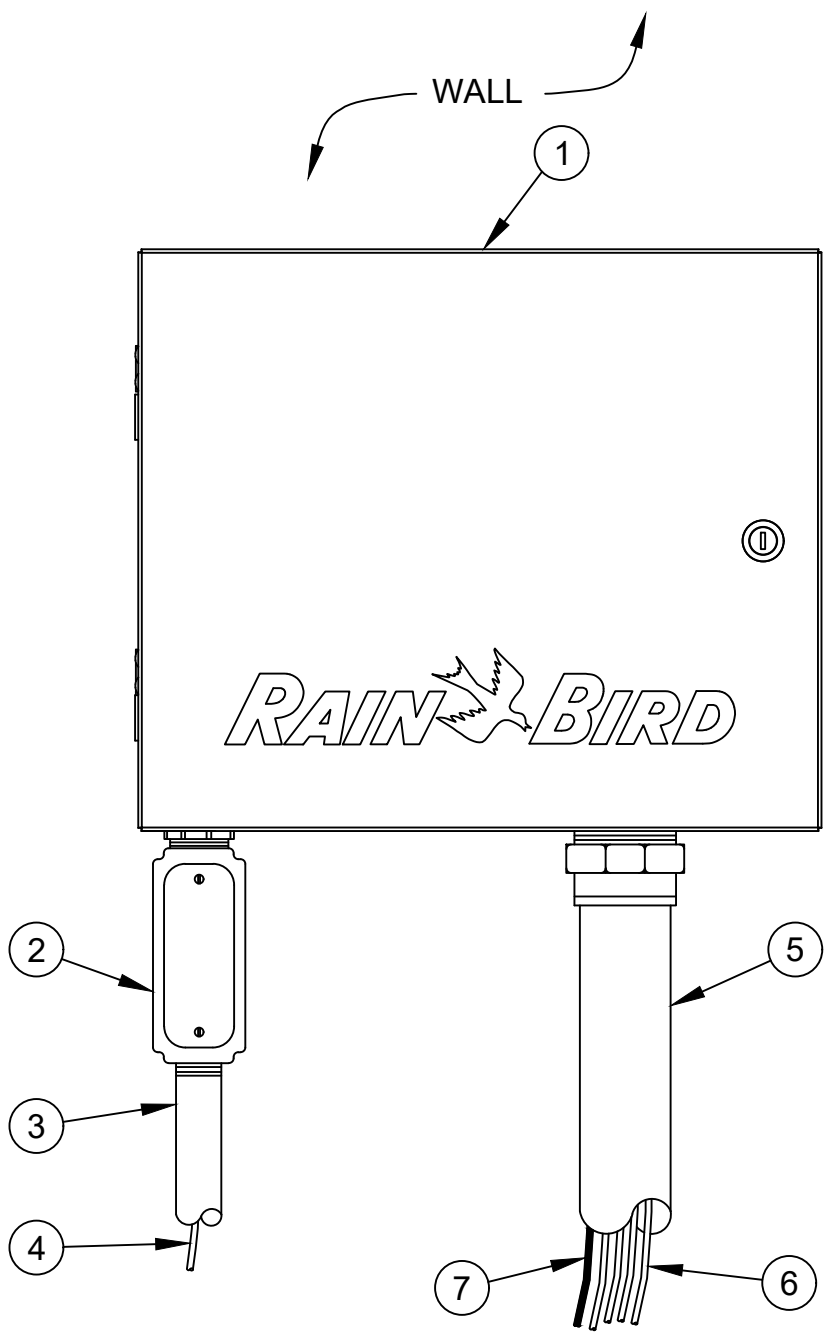
VALVE	SIZE	GPM	FO
1	1 1/2"	47	45
2	1 1/2"	48	45
3	1"	25	30
4	1 1/2"	47	30
5	1 1/2"	46	30
6	1 1/2"	33	30
7	1 1/2"	34	30
8	1"	28	30
9	-	-	-
10	-	-	-
11	-	-	-
12	-	-	-

SCHEDULE 40 PVC
LATERAL PIPE
SIZING CHART

0-11 GPM	1"
12-20 GPM	1 1/4"
21-30 GPM	1 1/2"
31-50 GPM	2"
51-70 GPM	2 1/2"
71-110 GPM	3"



1 DRIP FLUSH VALVE
SCALE: NO SCALE



4 WALL MOUNT CONTROLLER
SCALE: NO SCALE

- 1 IRRIGATION CONTROLLER:
RAIN BIRD ESP-LXMEF CONTROLLER WITH FLOW SMART MODULE IN LXMM METAL CABINET WITH OUTSIDE WALL MOUNT. INSTALL CONTROLLER AND CABINET ON WALL PER MANUFACTURER'S RECOMMENDATIONS.
- 2 JUNCTION BOX
- 3 1-INCH CONDUIT AND FITTINGS TO POWER SUPPLY
- 4 POWER SUPPLY WIRE
- 5 2-INCH CONDUIT AND FITTINGS FOR STATION WIRES
- 6 MASTER VALVE AND REMOTE CONTROL VALVE WIRES
- 7 FLOW SENSOR WIRE (PE 39, 89 OR 54) TO FLOW SENSOR

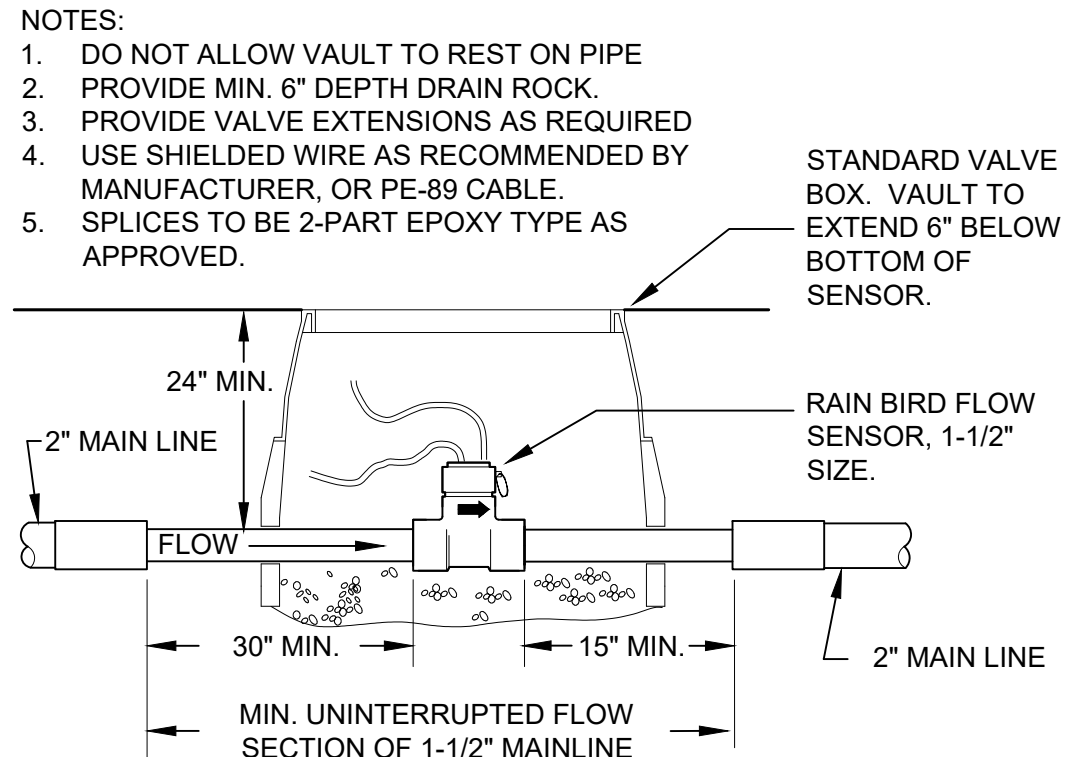
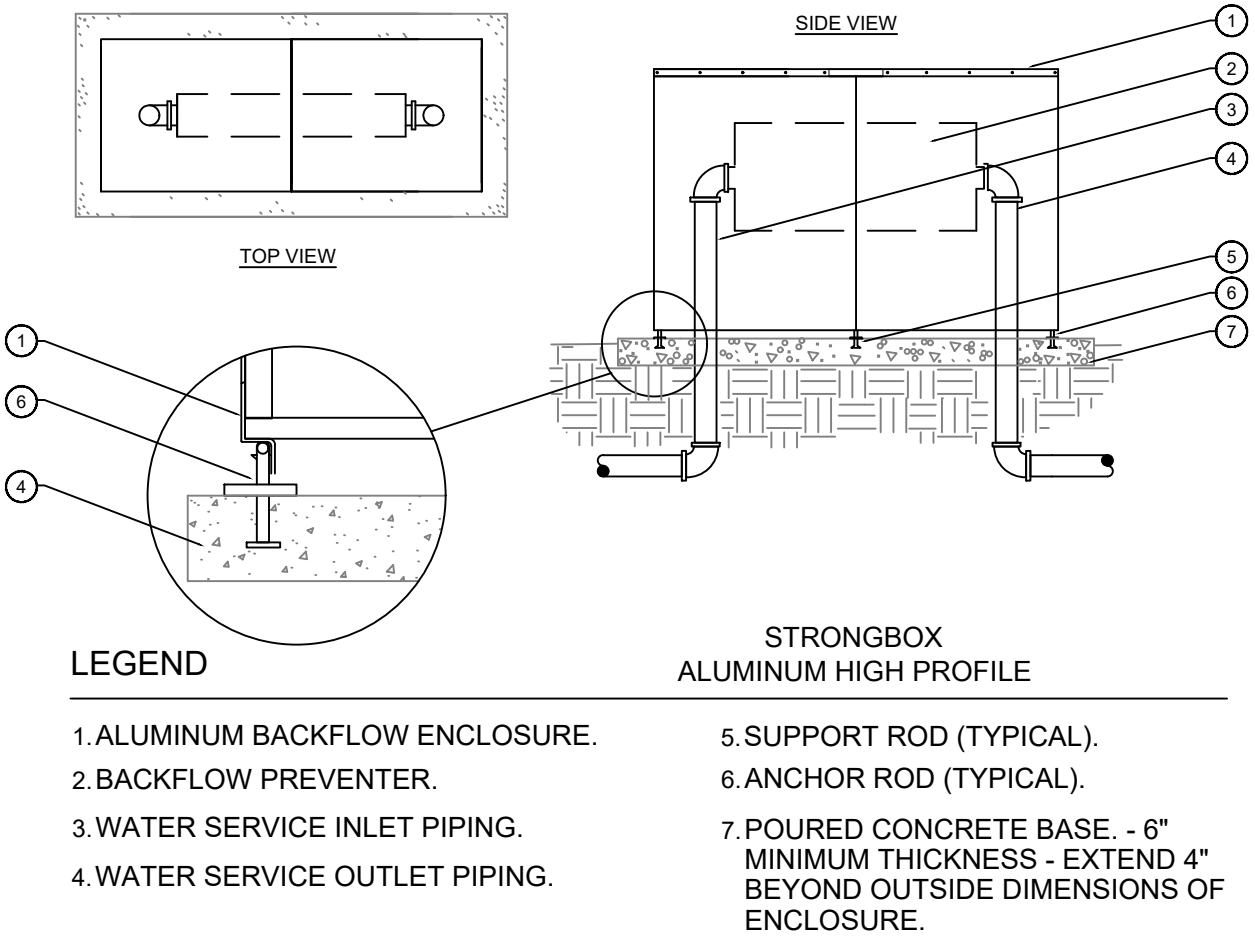
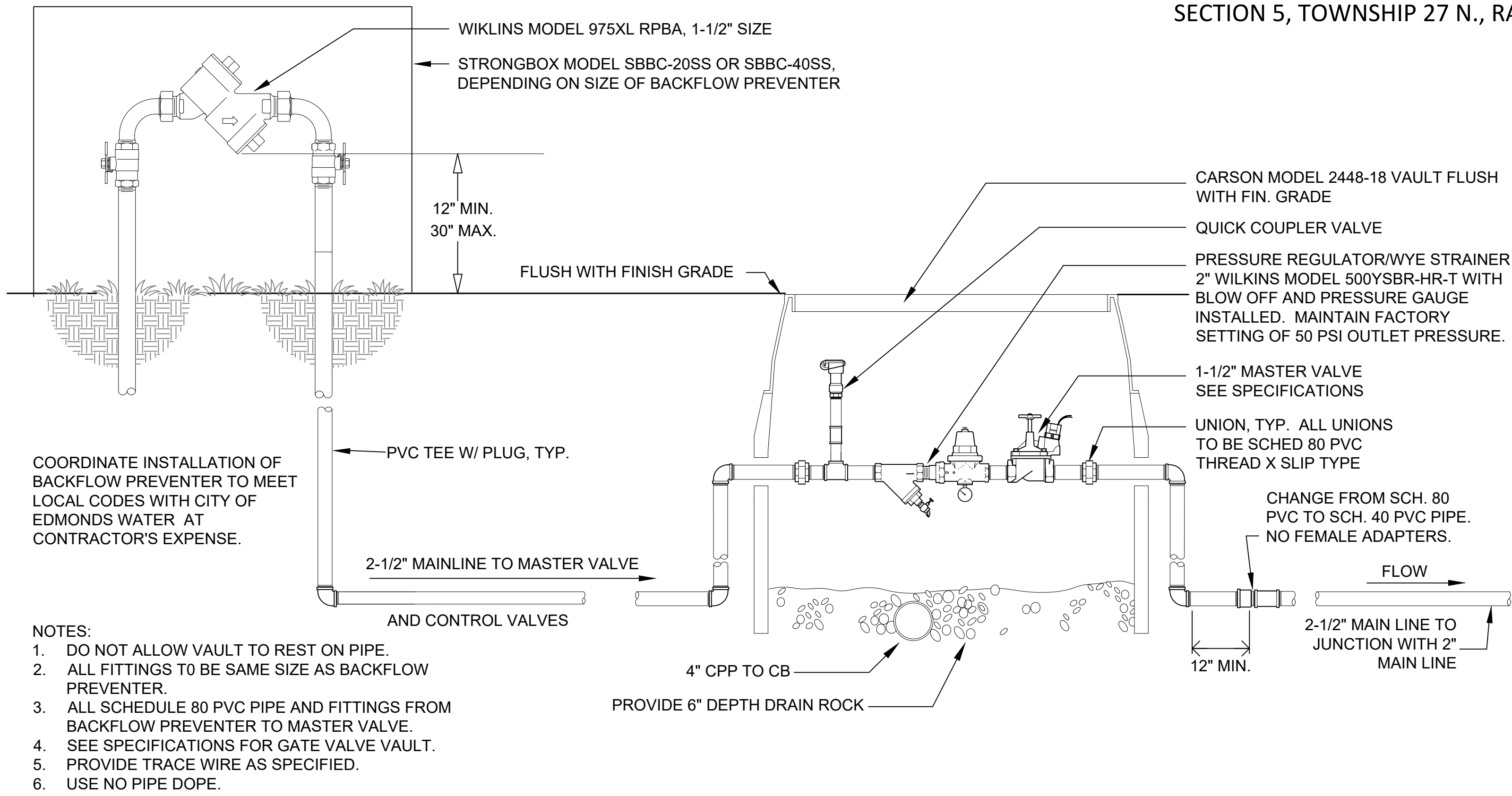
- NOTES:
1. USE STEEL CONDUIT FOR ABOVE GRADE AND SCH 40 PVC CONDUIT FOR BELOW GRADE CONDITIONS.
 2. PROVIDE PROPER GROUNDING COMPONENTS TO ACHIEVE GROUND RESISTANCE OF 10 OHMS OR LESS.
 3. MOUNT CONTROLLER 60" ABOVE FLOOR.

RECORD DRAWINGS
THESE RECORD DOCUMENTS HAVE BEEN PREPARED USING INFORMATION BY OTHERS. ANCHOR QEA, LLC HAS NOT VERIFIED THE ACCURACY OR COMPLETENESS OF THIS INFORMATION IN ITS ENTIRETY AND SHALL NOT BE RESPONSIBLE FOR ANY ERRORS OR OMISSIONS WHICH MAY BE INCORPORATED HEREIN AS A RESULT.

ONE INCH
AT FULL SIZE IF NOT ONE
INCH SCALE ACCORDINGLY

REVISIONS					DESCRIPTION
REV	DATE	BY	APP'D		
	10-25-23	CH	MR		RECORD DRAWINGS

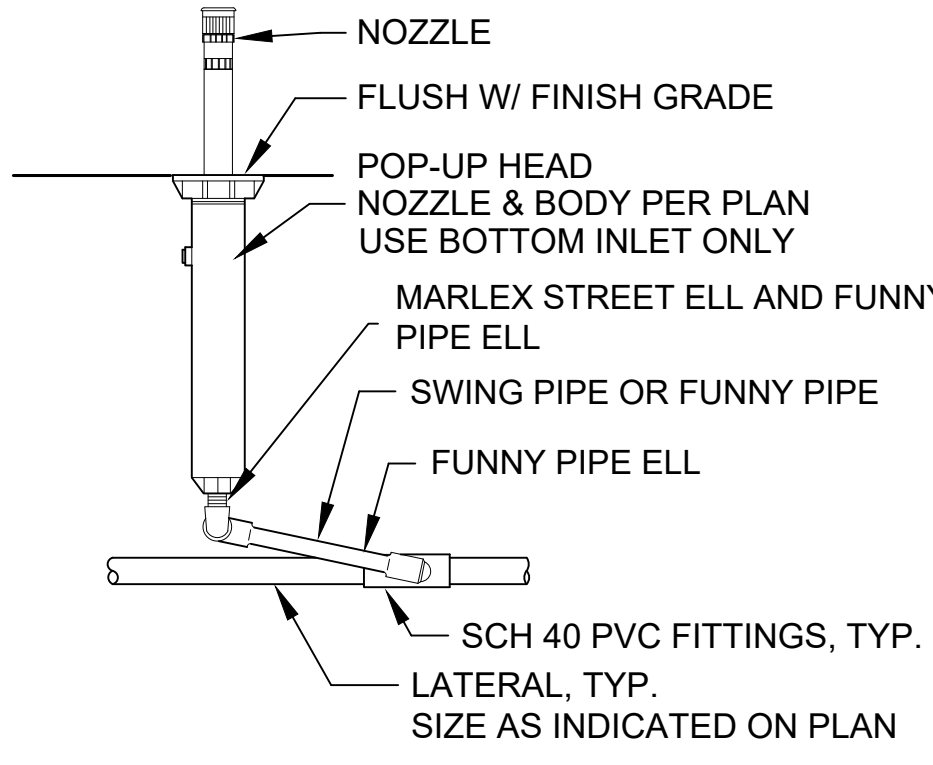
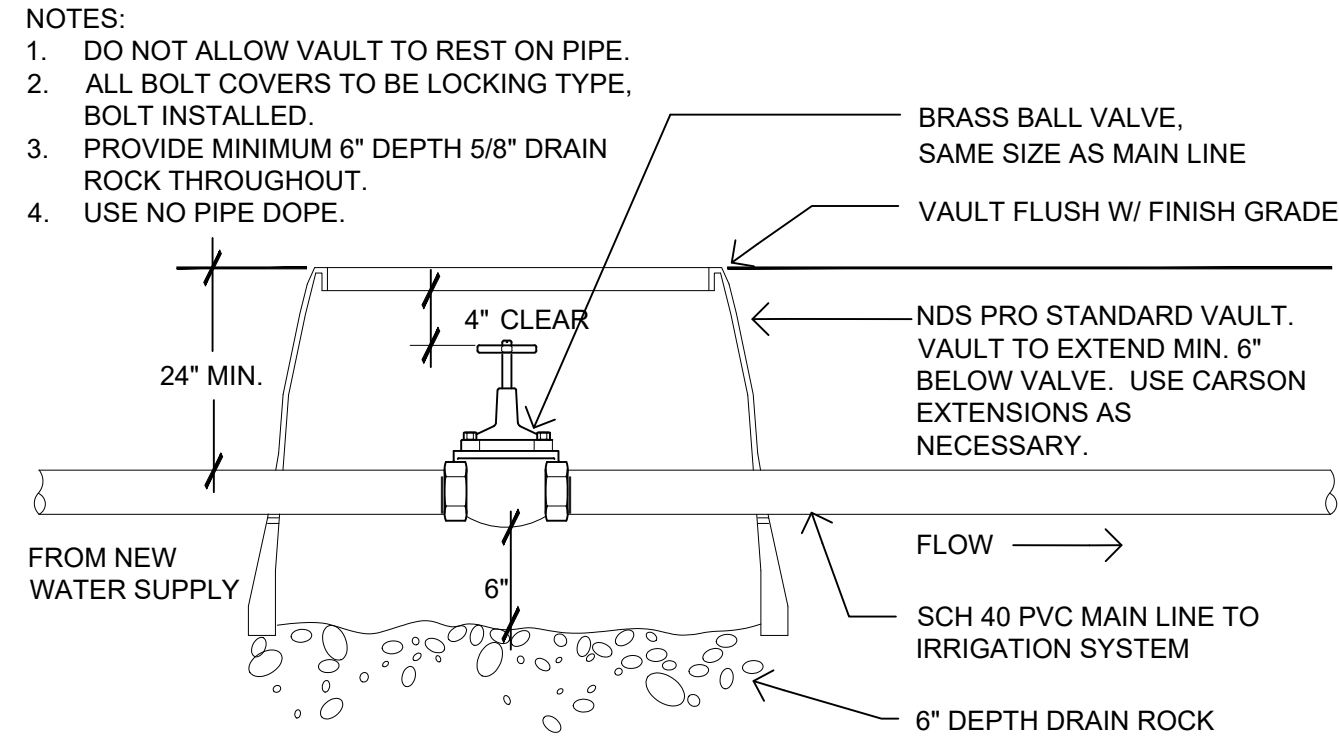
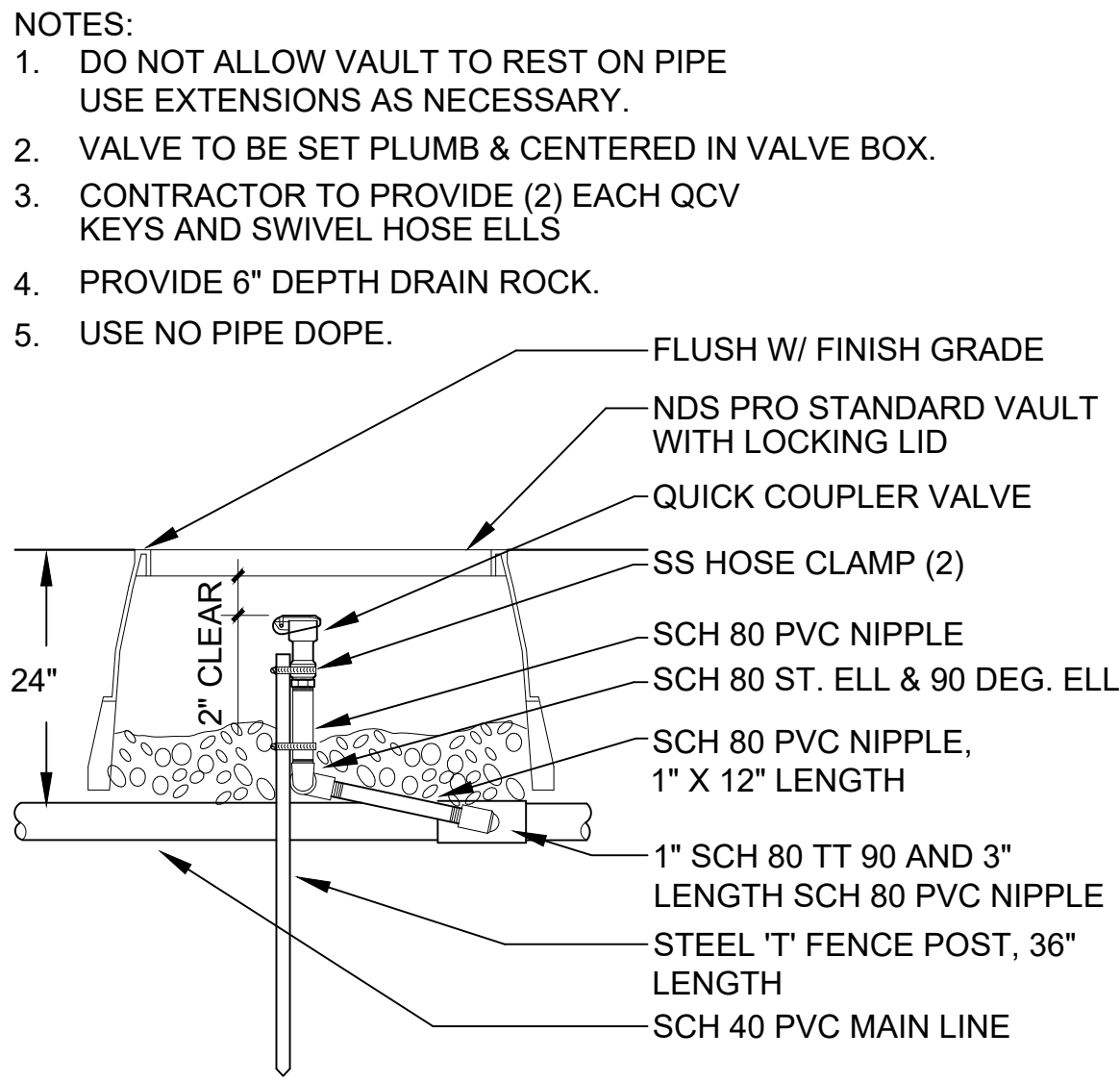
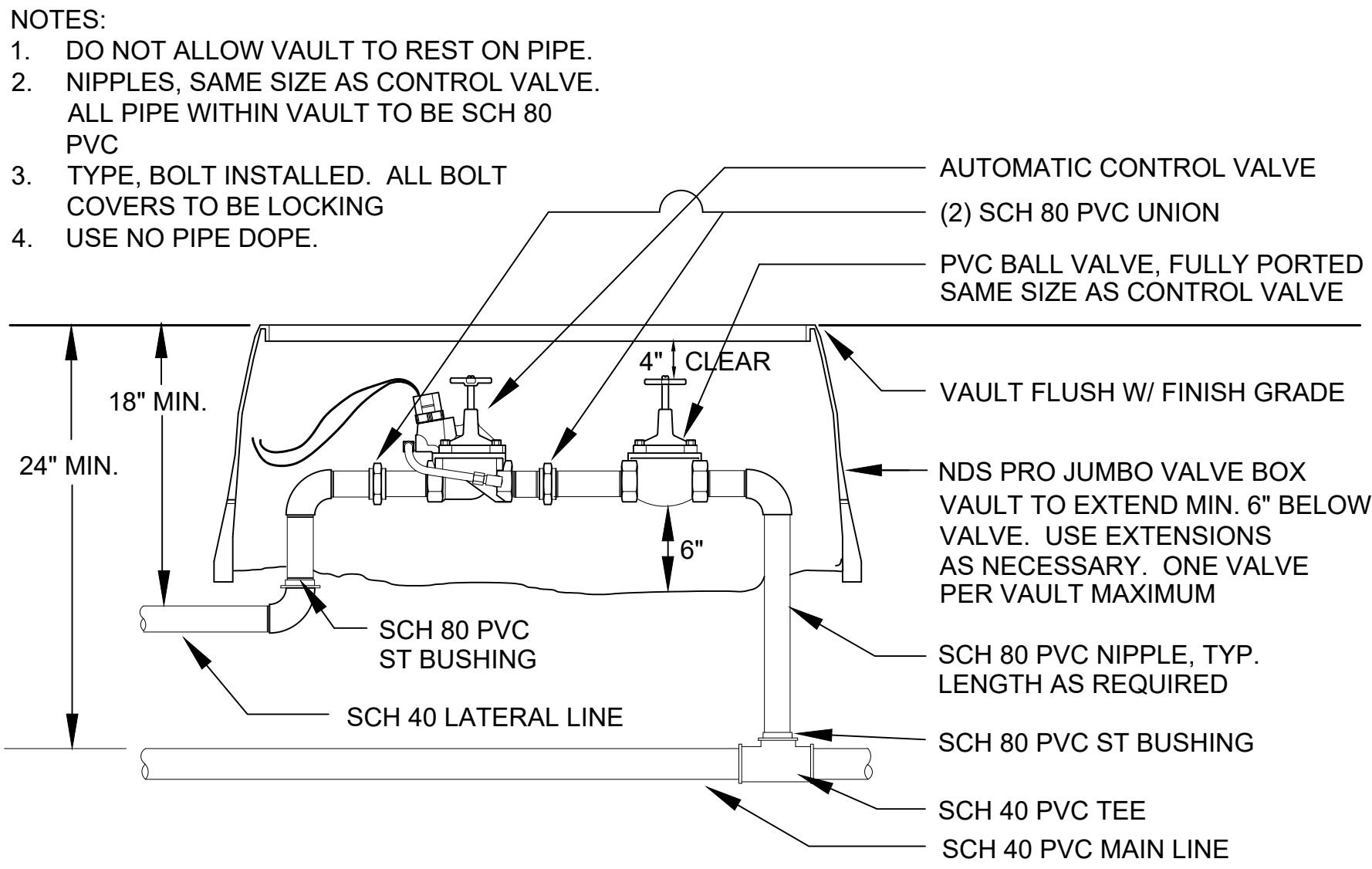
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DRAWN BY: WS
CHECKED BY: PH
APPROVED BY: PH
SCALE: AS NOTED
DATE: OCTOBER 2023



7 REDUCE PRESSURE BACKFLOW PREVENTER, PRESSURE REGULATOR AND MASTER VALVE
SCALE: NO SCALE

2 BACKFLOW ENCLOSURE
SCALE: NO SCALE

3 FLOW SENSOR
SCALE: NO SCALE



4 CONTROL VALVE
SCALE: NO SCALE

5 QUICK COUPLER VALVE
SCALE: NO SCALE

6 ISOLATION VALVE
SCALE: NO SCALE

7 POP-UP SPRAY HEAD
SCALE: NO SCALE

RECORD DRAWINGS
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INCH SCALE ACCORDINGLY

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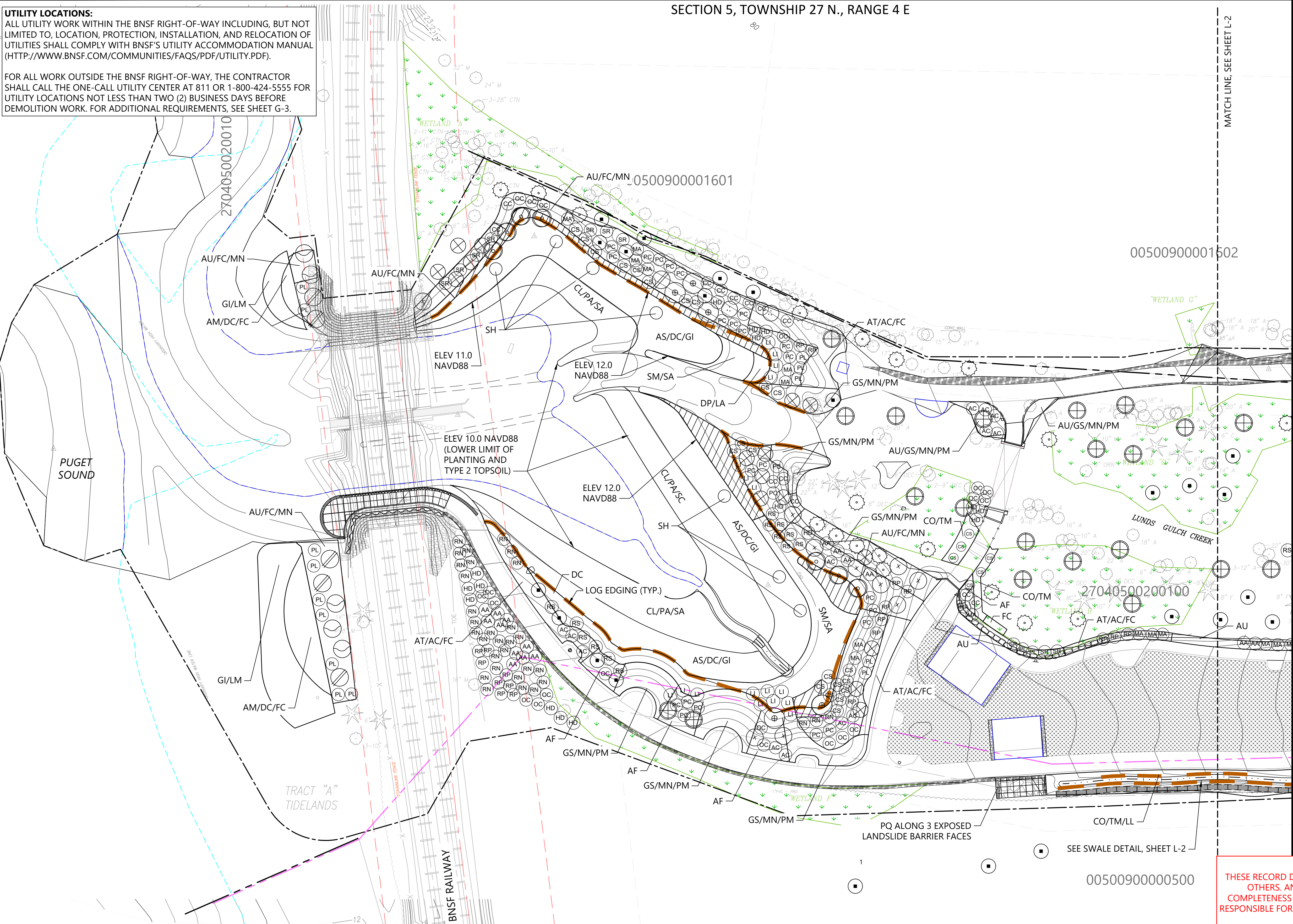
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DATE: OCTOBER 2023

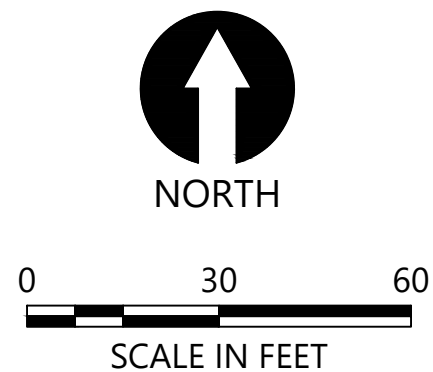
SECTION 5, TOWNSHIP 27 N., RANGE 4 E

UTILITY LOCATIONS:
ALL UTILITY WORK WITHIN THE BNSF RIGHT-OF-WAY INCLUDING, BUT NOT LIMITED TO, LOCATION, PROTECTION, INSTALLATION, AND RELOCATION OF UTILITIES SHALL COMPLY WITH BNSF'S UTILITY ACCOMMODATION MANUAL (HTTP://WWW.BNSF.COM/COMMUNITIES/FAQS/PDF/UTILITY.PDF).

FOR ALL WORK OUTSIDE THE BNSF RIGHT-OF-WAY, THE CONTRACTOR SHALL CALL THE ONE-CALL UTILITY CENTER AT 811 OR 1-800-424-5555 FOR UTILITY LOCATIONS NOT LESS THAN TWO (2) BUSINESS DAYS BEFORE DEMOLITION WORK. FOR ADDITIONAL REQUIREMENTS, SEE SHEET G-3.



- LEGEND:
- PARK BOUNDARY
 - PROJECT BOUNDARY
 - BNSF RIGHT OF WAY
 - EXISTING MEAN HIGHER HIGH WATER
 - PROPOSED MEAN HIGHER HIGH WATER
 - 10 --- PROPOSED CONTOUR
 - ⊙ TREE TO REMAIN
 - ⬇ EXISTING WETLAND TO BE PROTECTED
 - CLEARING LIMITS
 - LOG EDGING
 - GABION WALL



- NOTES:
1. HORIZONTAL DATUM: WASHINGTON STATE PLANE NORTH ZONE, NAD 83, U.S. FEET.
 2. VERTICAL DATUM: NAVD 88
 3. DRAWINGS ARE INTENDED TO BE VIEWED IN COLOR. SOME INFORMATION WILL BE LOST WITH BLACK AND WHITE VIEWING.
 4. SEE SHEET L-3 FOR PLANTING SCHEDULE.
 5. 45% OF THE SITE IS LANDSCAPED, WHICH MEETS REQUIREMENTS OF SCC 30.25.015(1).

RECORD DRAWINGS
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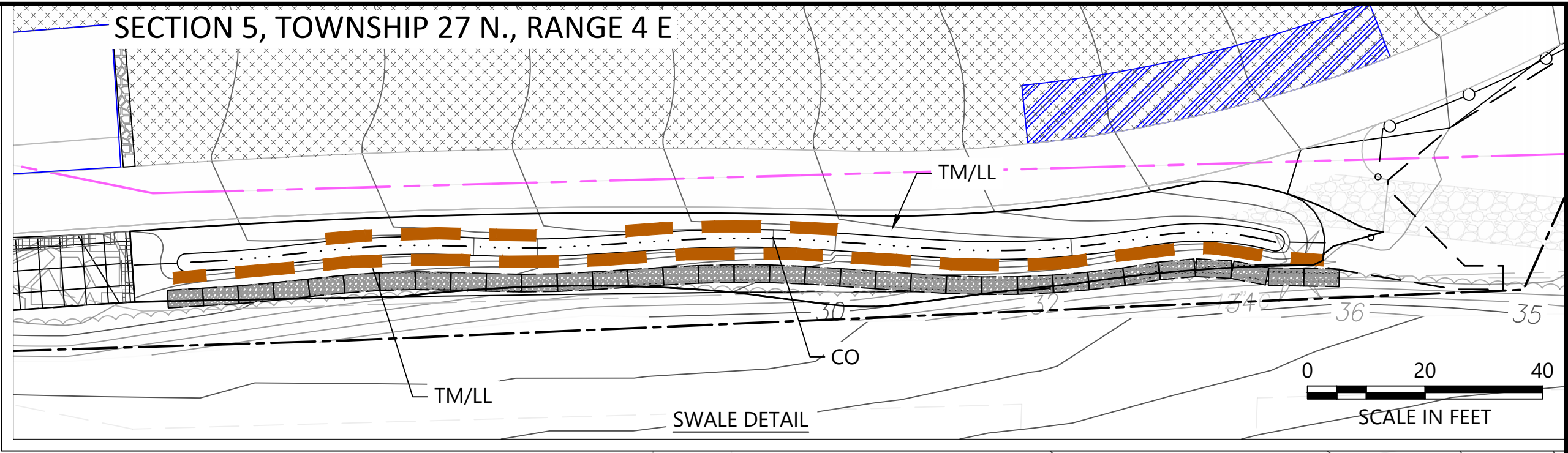
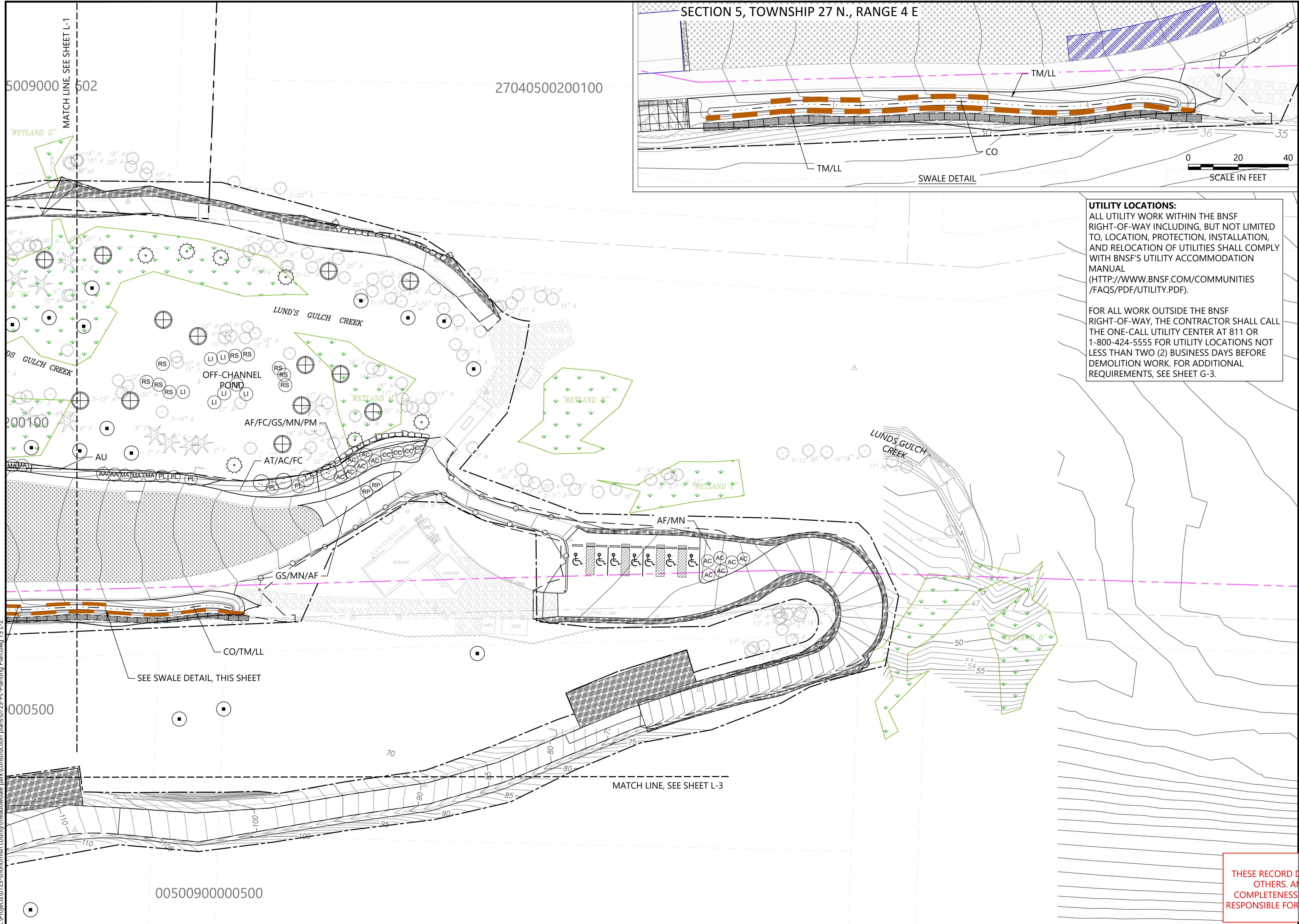
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APPROVED BY: PH
SCALE: 1" = 30'
DATE: OCTOBER 2023

**MEADOWDALE BEACH PARK
AND ESTUARY DESIGN**
PFN 19-103913LDA

PLANTING PLAN (1 OF 3)

L-1

SHEET # 75 OF 82

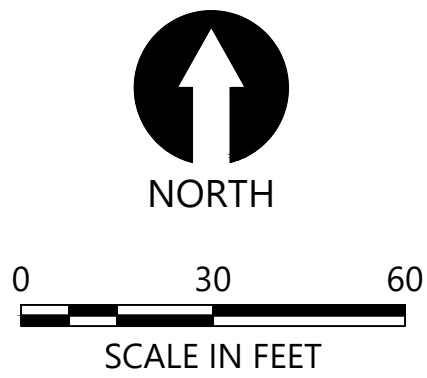


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 - PROJECT BOUNDARY
 - BNSF RIGHT OF WAY
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 - PROPOSED MEAN HIGHER HIGH WATER
 - PROPOSED CONTOUR
 - TREE TO REMAIN
 - EXISTING WETLAND TO BE PROTECTED
 - CLEARING LIMITS
 - LOG EDGING
 - GABION WALL

- PARKING LOT LANDSCAPING NOTES:
- AREA OF PROPOSED PARKING LOT LANDSCAPING: 922 SF, EXISTING MATURE VEGETATION INCLUDED.
 - AREA OF PROPOSED PARKING LOT: 3,620 SF.
 - LANDSCAPED PARKING LOT AREA PERCENTAGE: 25%



- NOTES:
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 - SEE SHEET L-3 FOR PLANTING SCHEDULE.
 - CONTRACTOR SHALL PROVIDE CONTINUOUS UTILITY SERVICE AND DRIVEWAY ACCESS TO RANGER RESIDENCE.

RECORD DRAWINGS
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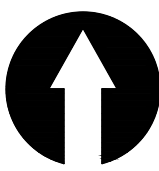
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SECTION 5, TOWNSHIP 27 N., RANGE 4 E

MATCH LINE, SEE SHEET L-2

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



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NOTES:

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	COMMON NAME	SPECIES NAME	SIZE	SPACING	QUANTITY	COMMENTS	DETAIL	
	TREES							
⊕	Black Hawthorn	<i>Crataegus douglasii</i>	5 gal.	as shown	5	Freshwater wetland	1&5 L-4	
○	Oregon Ash	<i>Fraxinus latifolia</i>	5 gal.	as shown	7	Freshwater wetland		
⋮	Cascara	<i>Rhamnus purshiana</i>	5 gal.	as shown	6	Riparian		
⊙	Sitka Spruce	<i>Picea sitchensis</i>	5 gal.	as shown	25	Riparian and Slope		
×	Shore Pine	<i>Pinus contorta</i> var. "contorta"	5 gal.	as shown	10	Riparian		
⊗	Douglas-Fir	<i>Pseudotsuga menziesii</i>	5 gal.	as shown	16	Riparian		
⊕	Hooker Willow	<i>Salix hookeriana</i>	5 gal.	as shown	5	Riparian - Beach side		
⊗	Sculer Willow	<i>Salix scouleriana</i>	5 gal.	as shown	6	Riparian - Beach side		
■	Western Red cedar	<i>Thuja plicata</i>	5 gal.	as shown	40	Riparian and Slope		
⊕	Western Hemlock	<i>Tsuga heterophylla</i>	5 gal.	as shown	30	Riparian and Slope		
	SHRUBS							
AC	Vine Maple	<i>Acer circinatum</i>	2 gal.	6' O.C.	25	Riparian	1&5 L-4	
AA	Saskatoon Serviceberry	<i>Amelanchier alnifolia</i>	2 gal.	6' O.C.	15	Riparian		
CS	Redosier Dogwood	<i>Cornus sericea</i>	2 gal.	6' O.C.	27	Riparian and Freshwater wetland		
CC	Beaked Hazelnut	<i>Corylus cornuta</i>	2 gal.	6' O.C.	15	Riparian		
HD	Oceanspray	<i>Holodiscus discolor</i>	2 gal.	6' O.C.	16	Riparian		
LI	Black Twinberry	<i>Lonicera involucrata</i>	5 gal.	6' O.C.	24	Riparian and Freshwater wetland		
MA	Tall Oregon Grape	<i>Mahonia aquifolium</i>	2 gal.	6' O.C.	16	Riparian		
OC	Indian Plum	<i>Oemleria cerasiformis</i>	2 gal.	6' O.C.	20	Riparian		
PL	Mock Orange	<i>Philadelphus lewisii</i>	2 gal.	6' O.C.	21	Riparian		
PC	Pacific Ninebark	<i>Physocarpus capitatus</i>	2 gal.	6' O.C.	25	Riparian	3&5 L-4	
RN	Nootka Rose	<i>Rosa nutkana</i>	2 gal.	6' O.C.	32	Riparian		
RP	Thimbleberry	<i>Rubus parviflorus</i>	2 gal.	6' O.C.	21	Riparian		
RS	Salmonberry	<i>Rubus spectabilis</i>	5 gal.	6' O.C.	22	Riparian and Freshwater wetland		
SR	Red Elderberry	<i>Sambucus racemosa</i>	2 gal.	6' O.C.	10	Riparian		
	GROUNDCOVERS							
AT	Vanilla-leaf	<i>Achlys triphylla</i>	1 gal.	4' O.C.	89	Riparian		
AU	Kinnickinnick	<i>Arctostaphylos uva-ursi</i>	1 gal.	4' O.C.	228	Riparian		
AC	Wild Ginger	<i>Asarum caudatum</i>	1 gal.	4' O.C.	89	Riparian		
AF	Lady fern	<i>Athyrium filix femina</i>	1 gal.	4' O.C.	209	Riparian		
FC	Common strawberry	<i>Fragaria chiloensis</i>	1 gal.	4' O.C.	196	Riparian		
GS	Salal	<i>Gaultheria shallon</i>	1 gal.	4' O.C.	70	Riparian		
MN	Low Oregon Grape	<i>Mahonia nervosa</i>	1 gal.	4' O.C.	177	Riparian		
PM	Swordfern	<i>Polystichum munitum</i>	1 gal.	4' O.C.	70	Riparian		
PQ	Virginia Creeper	<i>Parthenocissus quinquefolia</i>	1 gal.	2' O.C.	25	Landslide barrier wall		

	COMMON NAME	SPECIES NAME	SIZE	SPACING	QUANTITY	COMMENTS	DETAIL
	LIVESTAKES						
	Hooker Willow	<i>Salix hookeriana</i>	livestake	3' O.C.	168	Low riparian	<div>2&5</div>
	Scouler Willow	<i>Salix scouleriana</i>	livestake	3' O.C.	168	Low riparian	<div>L-4</div>
	WETLAND GRASSES AND HERBACEOUS PERENNIALS						
CO	Slough Sedge	<i>Carex obnupta</i>	10-in plug	3' O.C.	134	Freshwater wetland, swale	<div>4&5</div> <div>L-4</div>
DP	Darkthroat shooting star	<i>Dodecatheon pulchellum</i>	10-in plug	3' O.C.	36	Freshwater wetland	
LL	Broadleaf Lupine	<i>Lupinus latifolius</i>	10-in plug	3' O.C.	118	Swale	
LA	Skunk Cabbage	<i>Lysichiton americanus</i>	10-in plug	3' O.C.	36	Freshwater wetland	
SM	Small fruited Bulrush	<i>Scirpus microcarpus</i>	10-in plug	3' O.C.	160	Freshwater wetland	
SA	Hardstem Bulrush	<i>Schoenoplectus acutus</i>	10-in plug	3' O.C.	320	Freshwater wetland	<div>4&5</div> <div>L-4</div>
TM	Piggy-back plant	<i>Tolmiea menziesii</i>	10-in plug	3' O.C.	134	Freshwater wetland, swale	
AS	Douglas Aster	<i>Aster subspicatus</i>	10-in plug	3' O.C.	405	Tidal marsh	
CL	Lyngby's Sedge	<i>Carex lyngbyei</i>	10-in plug	3' O.C.	372	Tidal marsh	
DC	Tufted Hairgrass	<i>Deschampsia cespitosa</i>	10-in plug	3' O.C.	466	Tidal marsh	
PA	Pacific Silverweed	<i>Potentilla anserina</i> ssp. <i>Pacifica</i>	10-in plug	3' O.C.	372	Tidal marsh	<div>4&5</div> <div>L-4</div>
SC	American Three-square	<i>Scirpus americanus</i>	10-in plug	3' O.C.	64	Tidal marsh	
SH	Henderson's Checker-bloom	<i>Sidalcea hendersonii</i>	10-in plug	3' O.C.	40	Tidal marsh	
AM	Sea thrift	<i>Armeria maritima</i>	10-in plug	3' O.C.	61	Backshore beach	
FC	Coastal Strawberry	<i>Fragaria chiloensis</i>	10-in plug	3' O.C.	61	Backshore beach	
GI	Puget Sound Gumweed	<i>Grindelia integrifolia</i>	1 gal.	3' O.C.	848	Backshore beach	<div>5</div> <div>L-4</div>
LM	Dunegrass	<i>Leymus mollis</i>	1 gal.	3' O.C.	444	Backshore beach	
	LAWN HYDROSEED	See Specifications	Hydroseed Mix				
						Landslide Barrier and Upland Slopes along paths, roads and parking where adjacent soils are disturbed by construction	
	RIPARIAN SHADE SEED MIX	See Specifications	Hydroseed Mix				

UTILITY LOCATIONS:

ALL UTILITY WORK WITHIN THE BNSF RIGHT-OF-WAY INCLUDING, BUT NOT LIMITED TO, LOCATION, PROTECTION, INSTALLATION, AND RELOCATION OF UTILITIES SHALL COMPLY WITH BNSF'S UTILITY ACCOMMODATION MANUAL ([HTTP://WWW.BNSF.COM/COMMUNITIES/FAQS/PDF/UTILITY.PDF](http://www.bnsf.com/communities/faqs/pdf/utility.pdf)).

FOR ALL WORK OUTSIDE THE BNSF RIGHT-OF-WAY, THE CONTRACTOR SHALL CALL THE ONE-CALL UTILITY CENTER AT 811 OR 1-800-424-5555 FOR UTILITY LOCATIONS NOT LESS THAN TWO (2) BUSINESS DAYS BEFORE DEMOLITION WORK. FOR ADDITIONAL REQUIREMENTS, SEE SHEET G-3.

DRAWINGS

NOT PREPARED USING INFORMATION BY NOT VERIFIED THE ACCURACY OR IN ITS ENTIRETY AND SHALL NOT BE RESPONSIBLE FOR ANY ERRORS OR OMISSIONS WHICH MAY BE INCORPORATED HEREIN AS A RESULT.

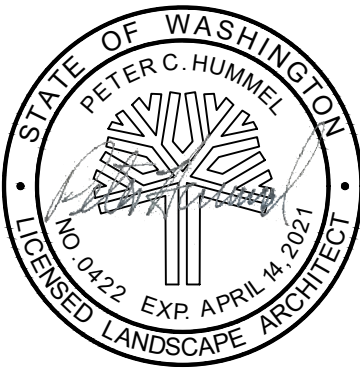
ONE INCH
AT FULL SIZE IF NOT ONE INCH SCALE ACCORDINGLY



720 Olive Way | Suite 1900 | Seattle, WA 98101



Snohomish County
Parks and Recreation



REVISIONS					
REV	DATE	BY	APP'D	DESCRIPTION	
1	10-25-23	CH	MR	RECORD DRAWINGS	

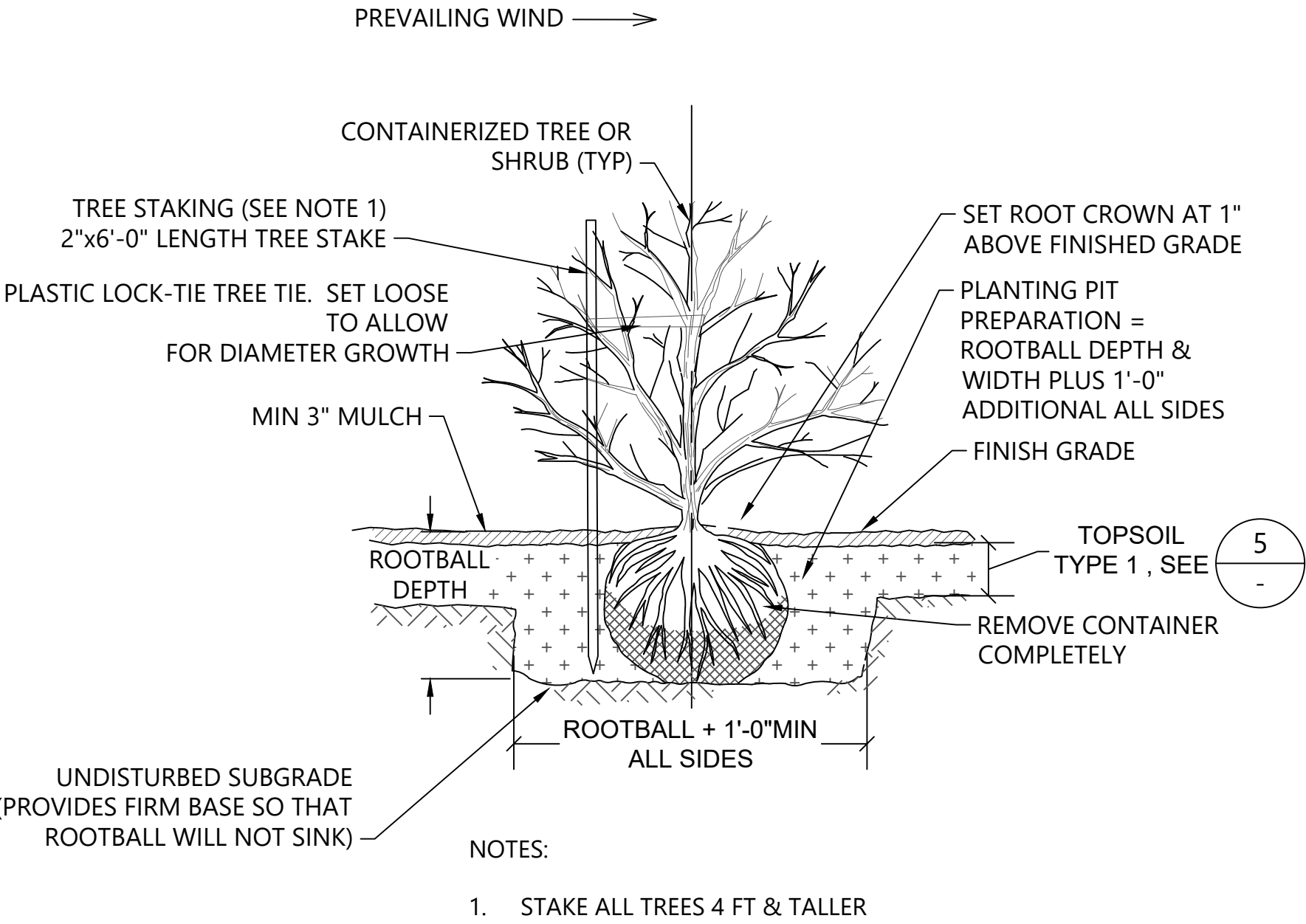
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CHECKED BY: PH
APPROVED BY: PH
SCALE: 1" = 30'
DATE: OCTOBER 2023

MEADOWDALE BEACH PARK
AND ESTUARY DESIGN
PFN 19-103913LDA

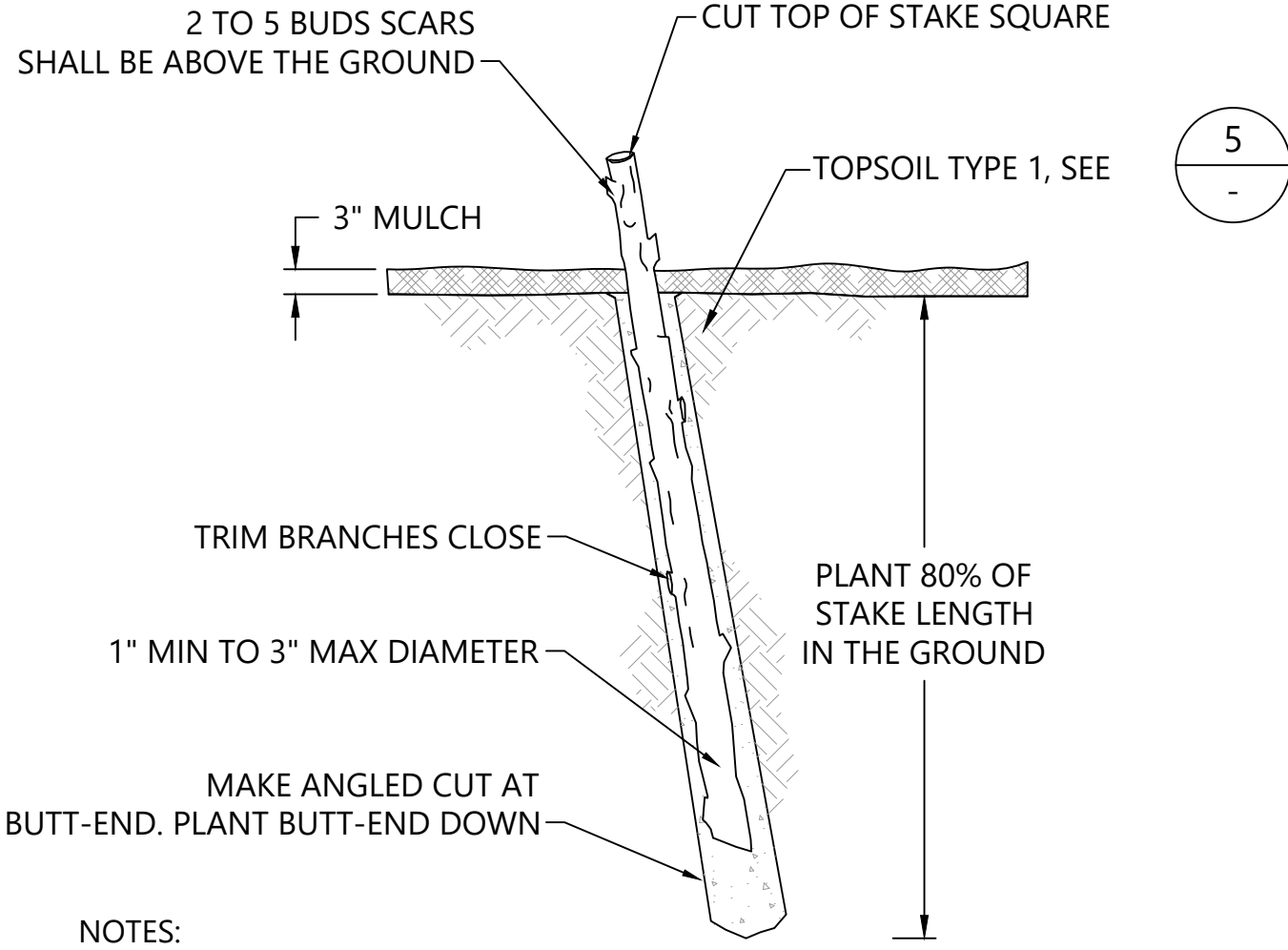
PLANTING PLAN (3 OF 3)

L-3

SHEET # 77 OF 82

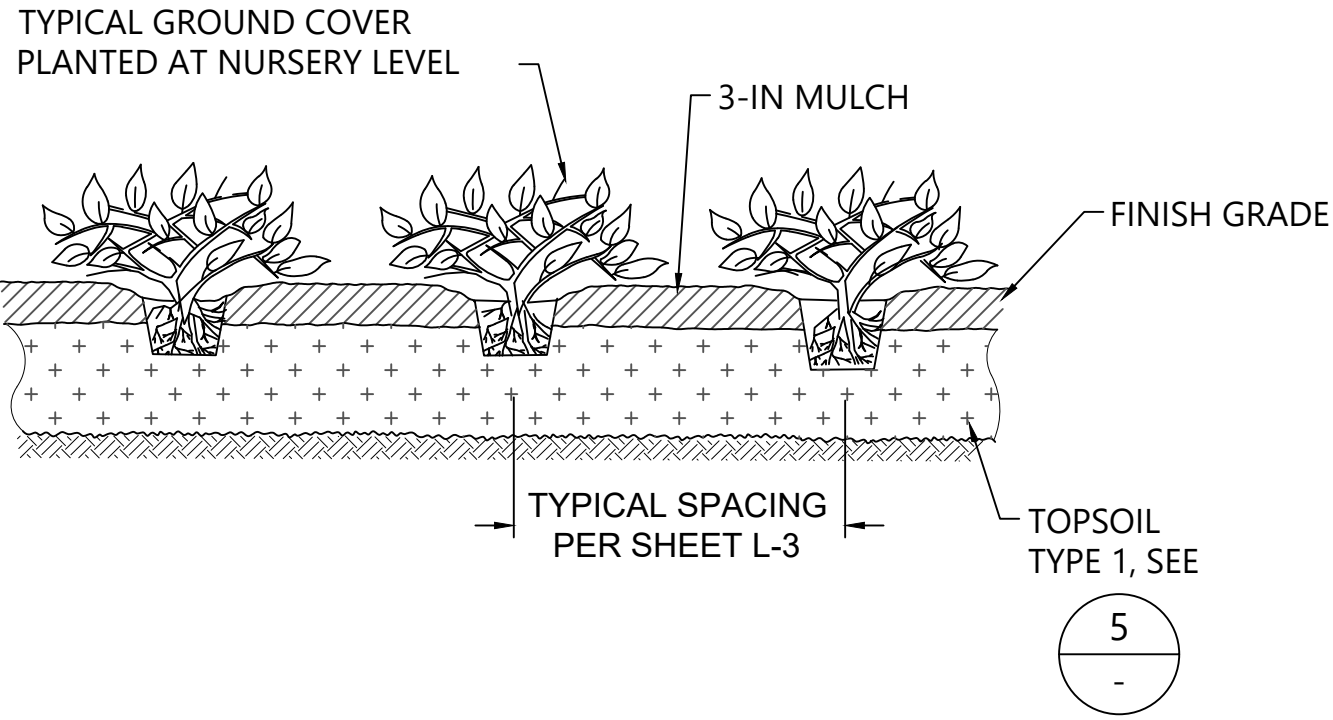


1 CONTAINER TREE OR SHRUB
L-1&2 SCALE:NTS

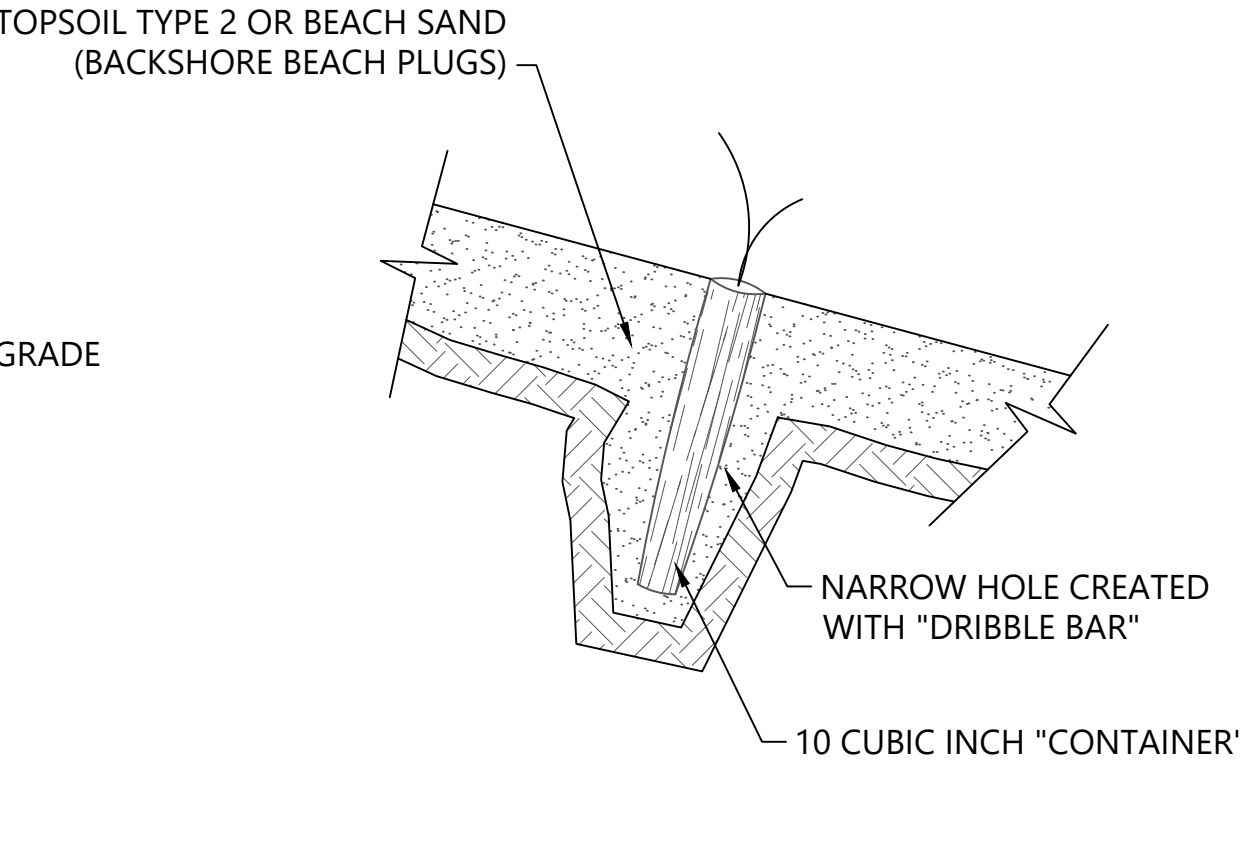


- NOTES:
1. HARVEST AND PLANT STAKES DURING THE DORMANT SEASON.
 2. MAKE CLEAN CUTS AND DO NOT DAMAGE STAKES OR SPLIT ENDS DURING INSTALLATION, USE A PILOT BAR IN FIRM SOILS.
 3. SOAK CUTTINGS CONTINUOUSLY PRIOR TO INSTALLATION.
 4. TAMP THE SOIL AROUND THE STAKE.
 5. ONLY NURSERY GROWN STOCK SHALL BE USED. HARVESTING OF WILD PLANTS IS NOT ACCEPTABLE.
 6. USE EQUAL NUMBER AND EVEN DISTRIBUTION OF EACH WILLOW SPECIES.

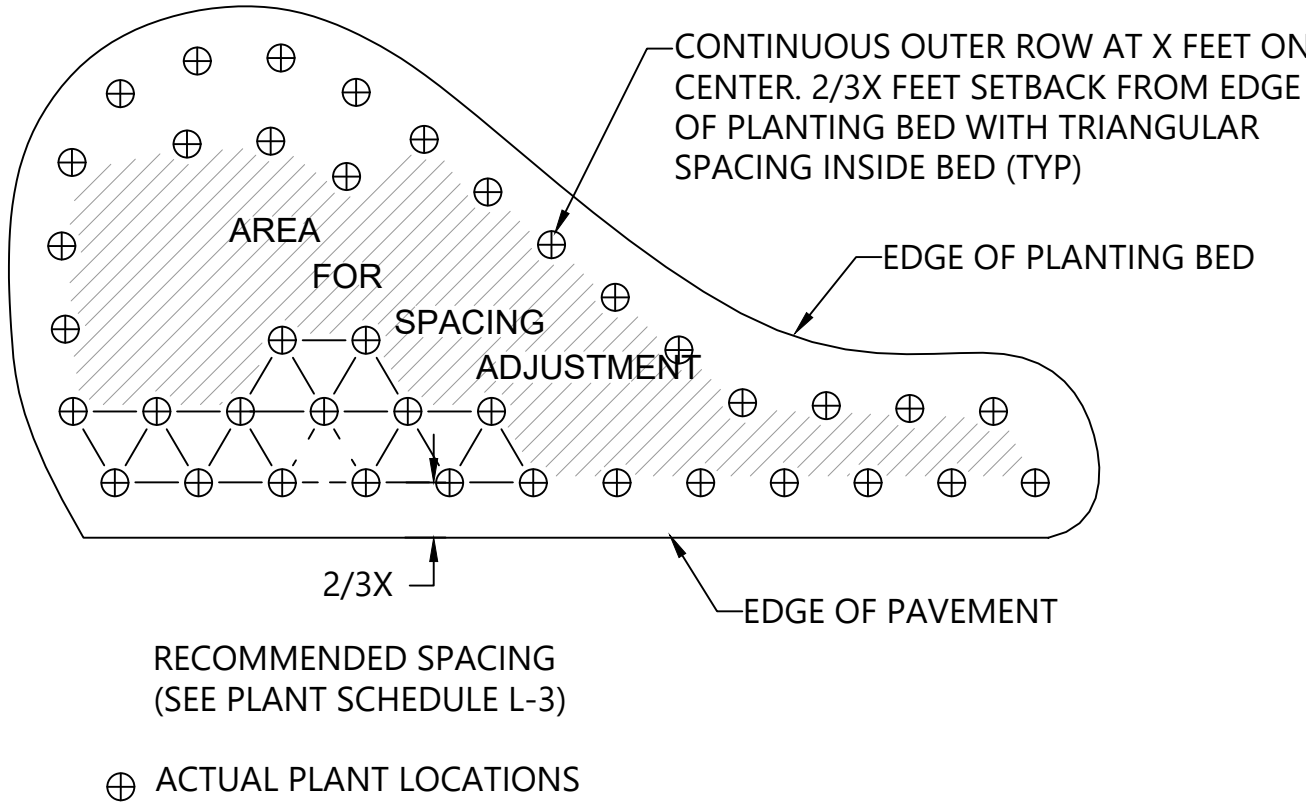
2 LIVESTAKE
L-1&2 SCALE:NTS



3 GROUNDCOVER
L-1&2 SCALE:NTS



4 EMERGENT PLUG
L-1&2 SCALE:NTS



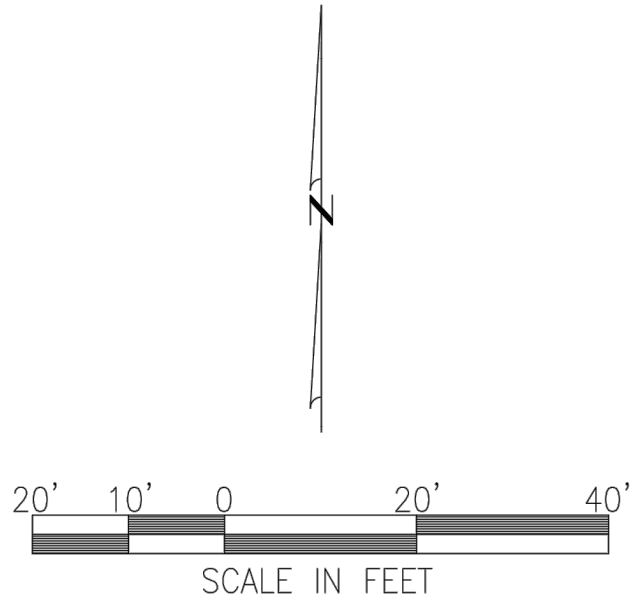
5 PLANT SPACING
L-3 SCALE:NTS

RECORD DRAWINGS
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REVISIONS					
REV	DATE	BY	APP'D	DESCRIPTION	
1	10-25-23	CH	MR	RECORD DRAWINGS	

DESIGNED BY: PH
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CHECKED BY: PH
APPROVED BY: PH
SCALE: AS NOTED
DATE: OCTOBER 2023

county\meadowdale park\construction plans\0723-PL-DHA Survey.dwg X-1



HORIZONTAL DATUM:
WASHINGTON STATE COORDINATE SYSTEM, NORTH ZONE NAD83(1991),
US FEET UTILIZING RTK GPS FIELD PROCEDURES

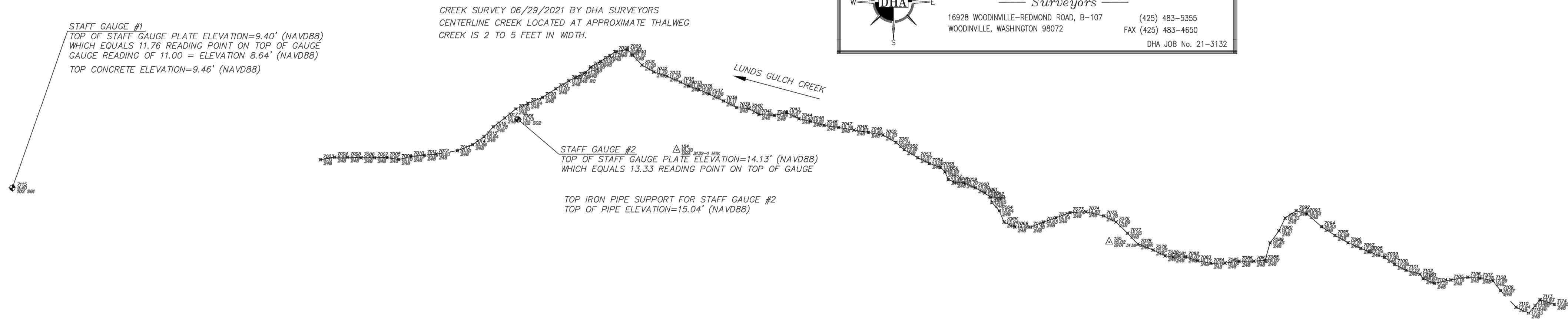
VERTICAL DATUM:
NORTH AMERICAN VERTICAL DATUM 1988 (NAVD88), US FEET.

LEGEND

△ DHA SURVEY CONTROL
● STAFF GAUGE

TOPOGRAPHIC MAPPING:
THE MAP SHOWN HEREON IS THE RESULT OF A LOCATION SURVEY BY DUANE HARTMAN &
ASSOCIATES, INC. (DHA) COMPLETED ON JUNE 29, 2021

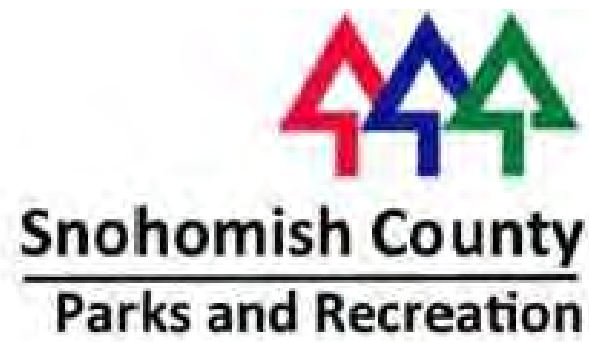
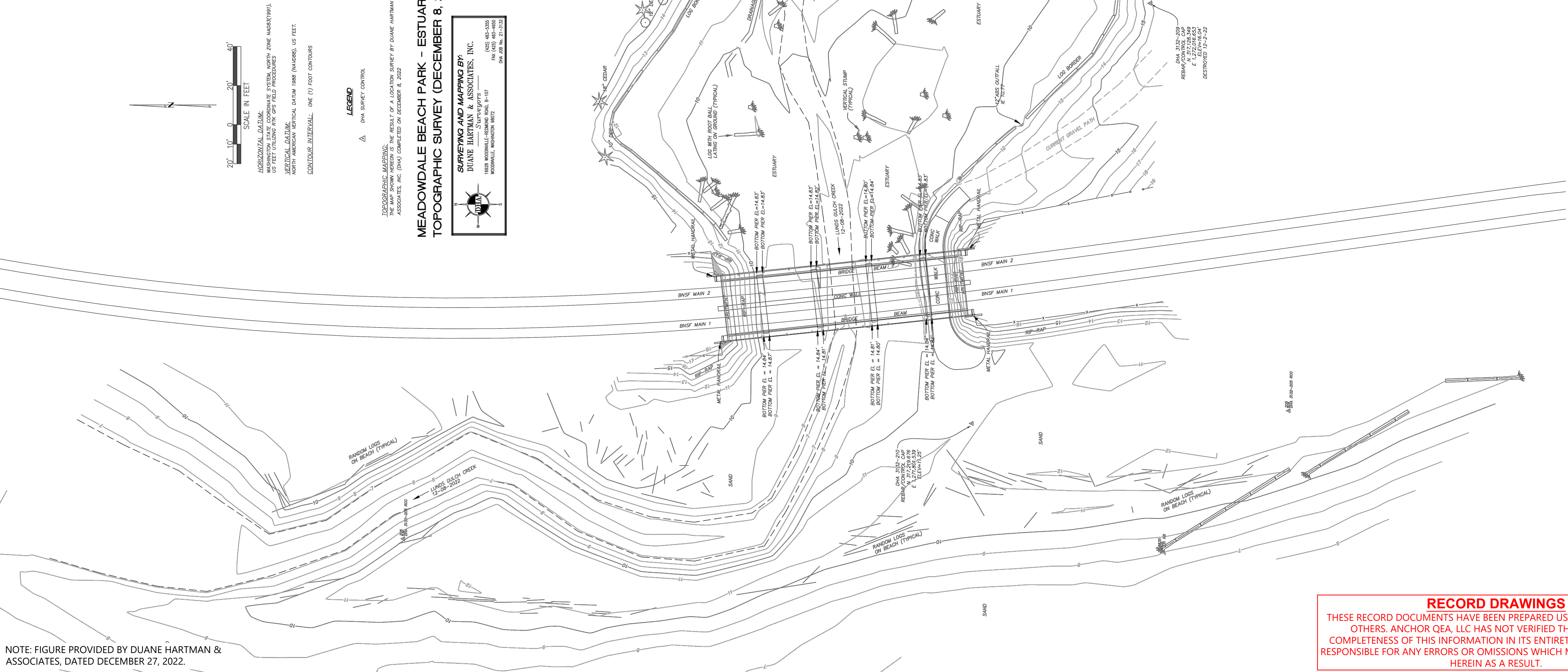
MEADOWDALE BEACH PARK – CREEK SURVEY AND
STAFF GAUGE LOCATIONS.



ONE INCH
AT FULL SIZE, IF NOT ONE
INCH SCALE ACCORDINGLY

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Oct 25, 2023 4:31 pm chiewett

SECTION 5, TOWNSHIP 27 N., RANGE 4 E



Signature

REVISIONS					DESCRIPTION
REV	DATE	BY	APP'D		
1	10-25-23	CH	MR		RECORD DRAWINGS

DESIGNED BY: PH
DRAWN BY: CH/TG
CHECKED BY: DR
APPROVED BY: PH
SCALE: AS NOTED
DATE: OCTOBER 2023

MEADOWDALE BEACH PARK
AND ESTUARY DESIGN
PFN 19-103913LDA

ESTUARY AND BEACH TOPOGRAPHIC SURVEY
(DECEMBER 8, 2022)

ONE INCH
↑
AT FULL SIZE IF NOT ONE
INCH SCALE ACCORDINGLY

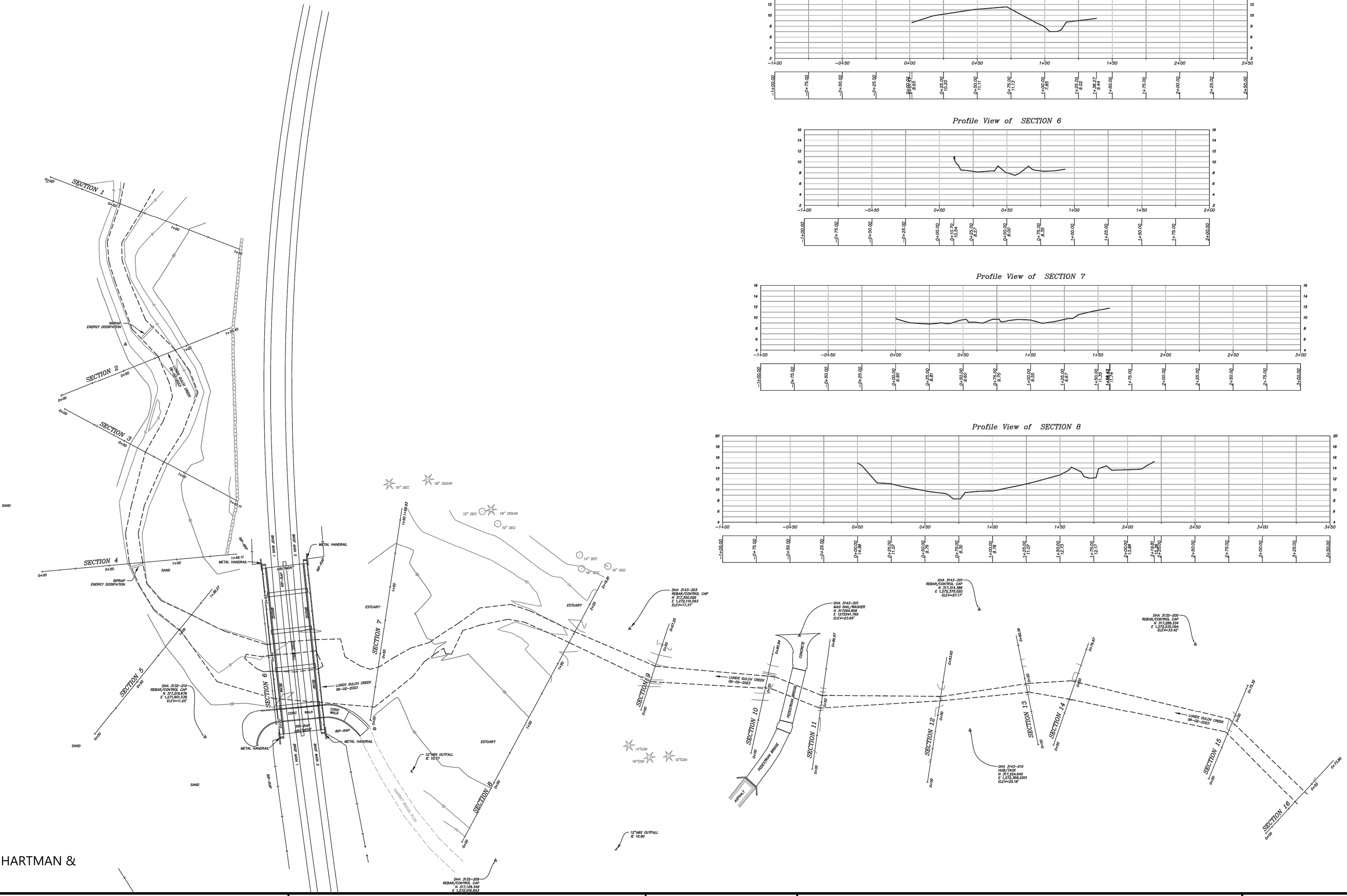
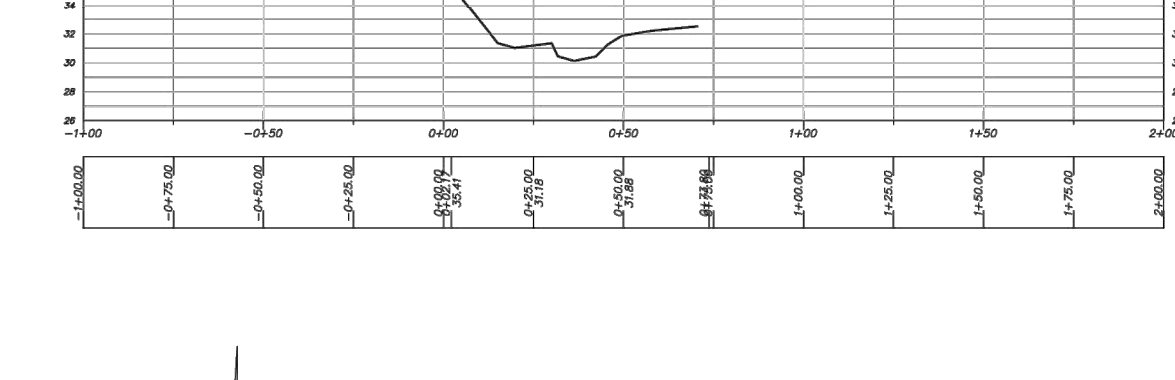
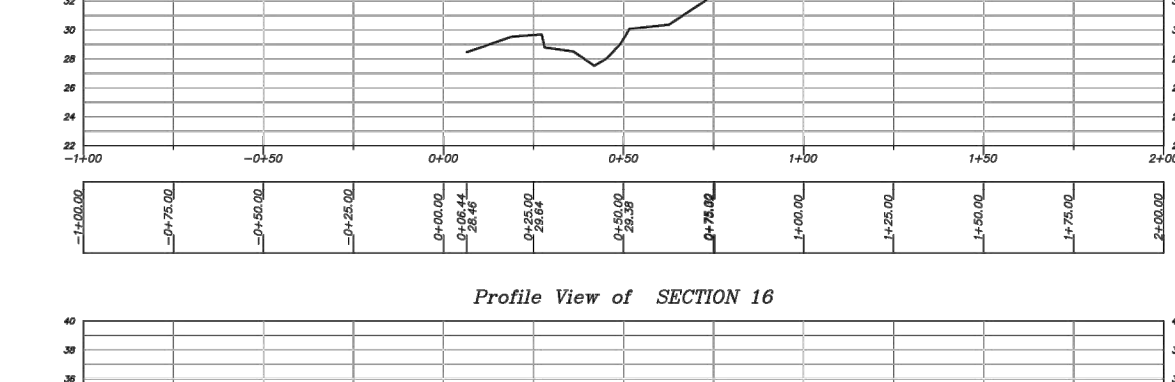
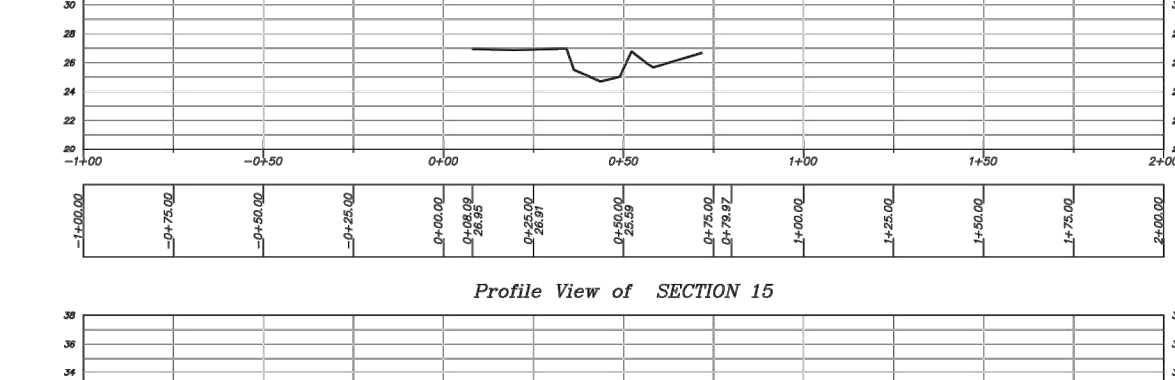
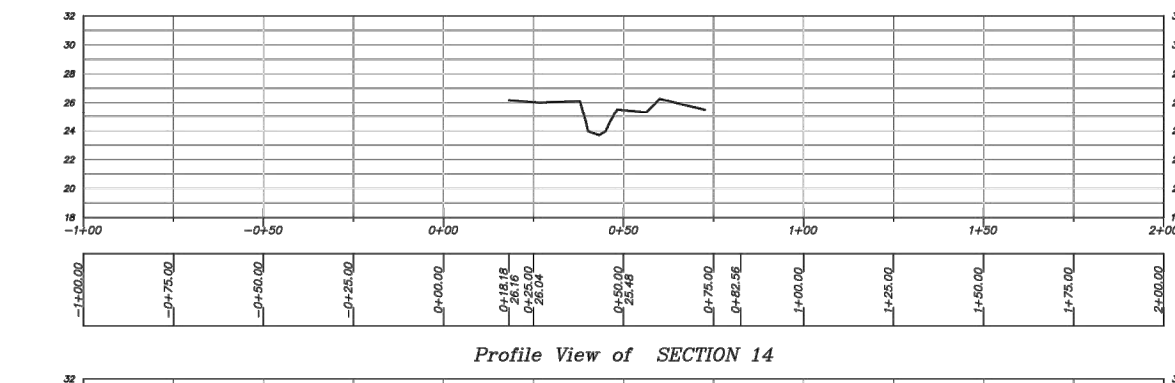
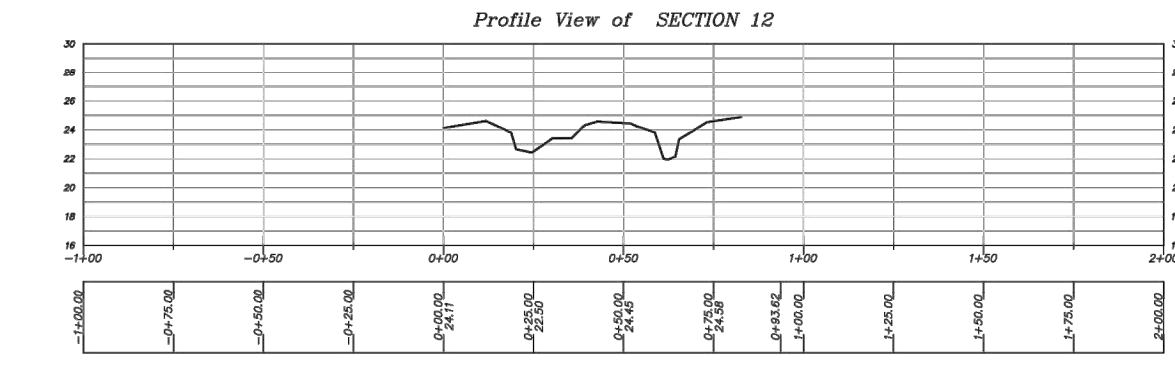
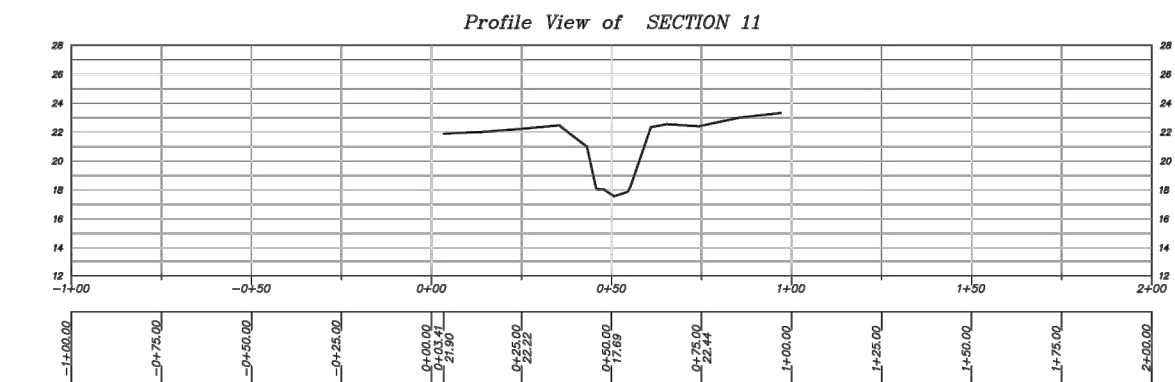
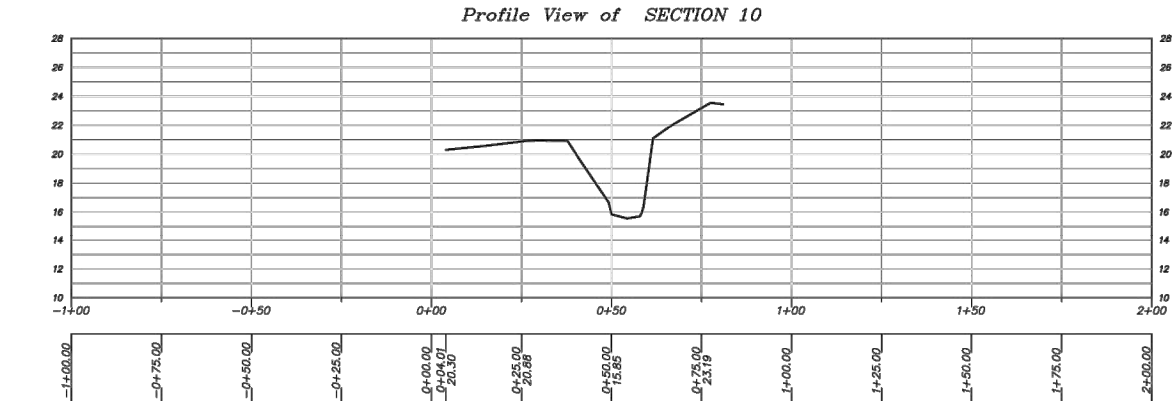
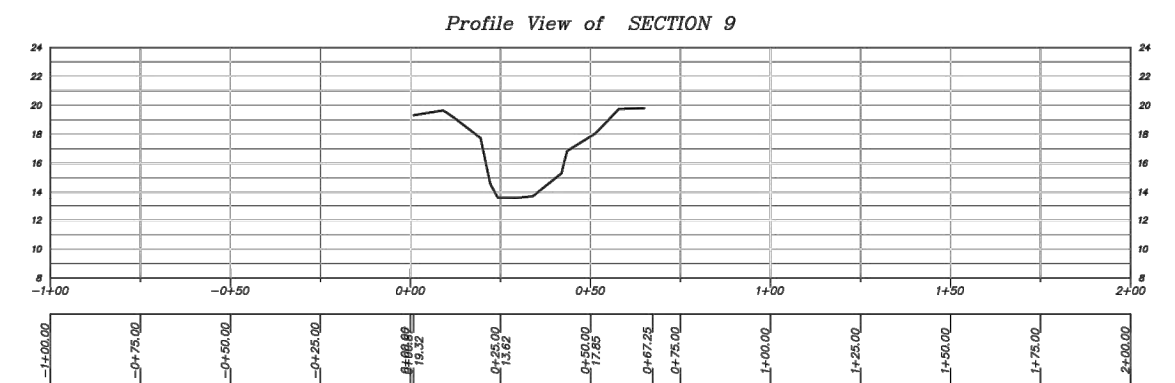
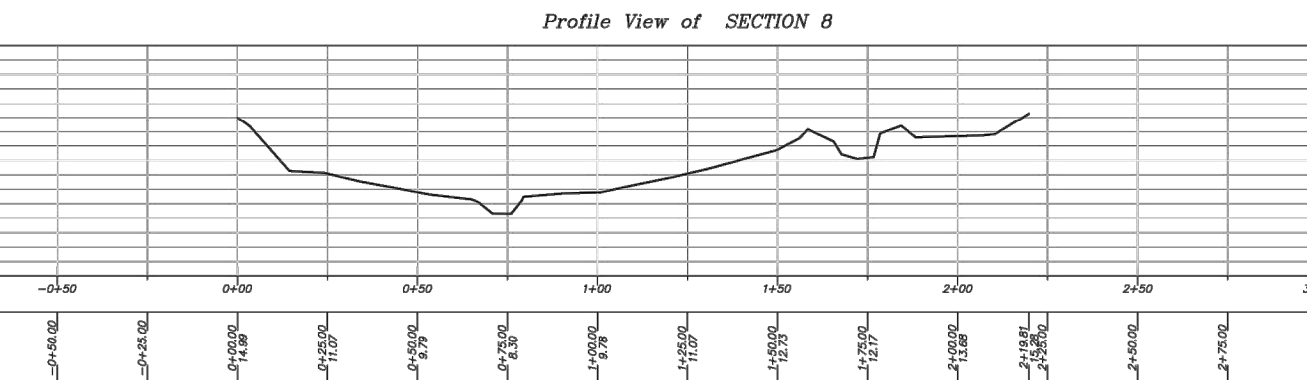
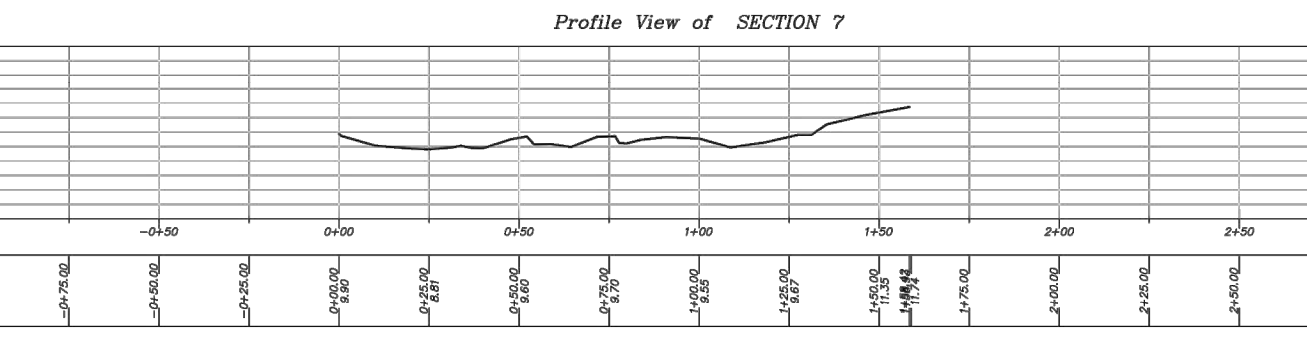
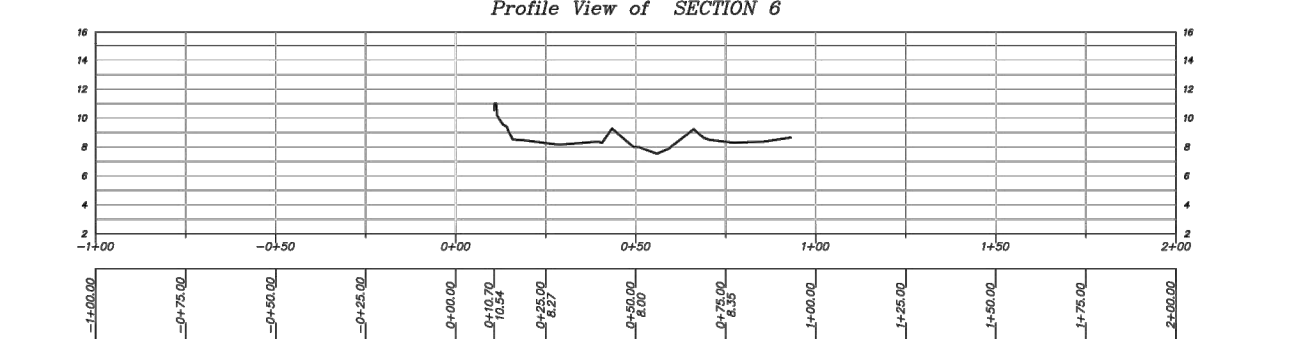
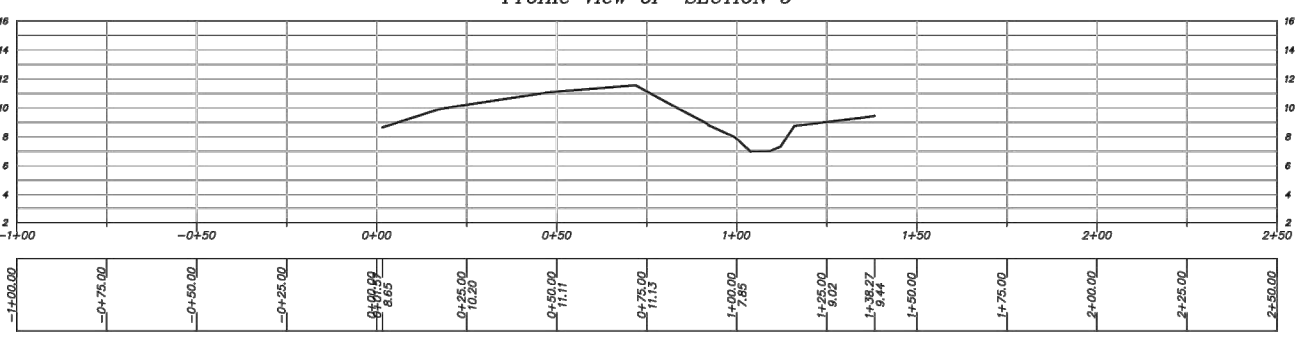
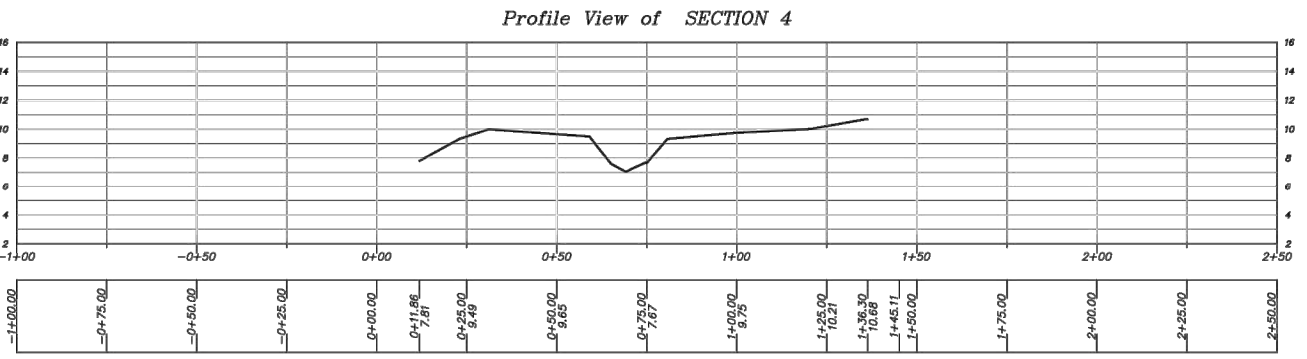
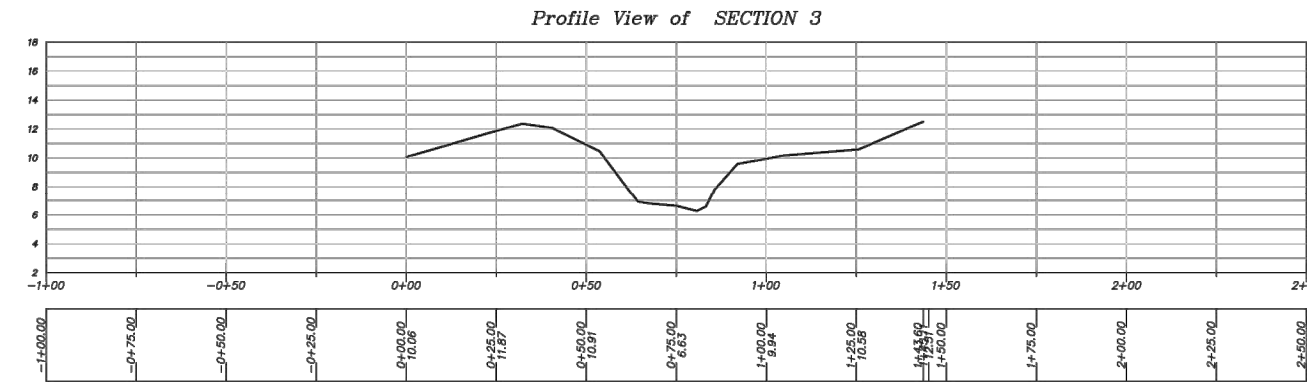
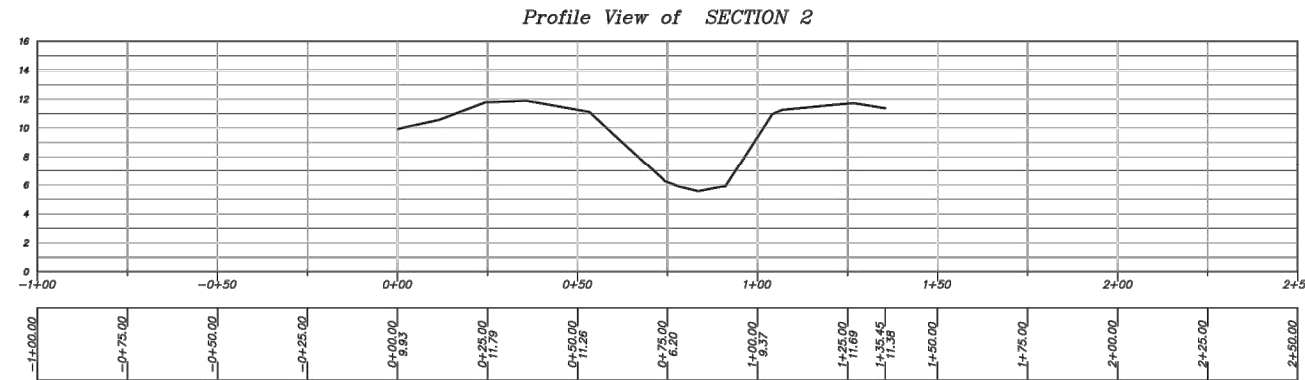
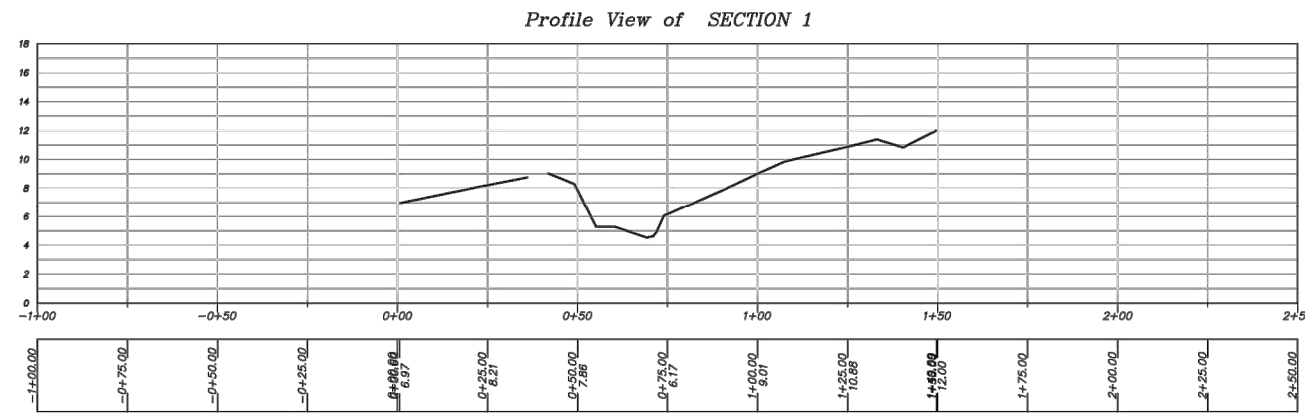
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SHEET # **80** OF **82**

Oct 25, 2023 4:22pm cleveland k:\projects\0723-snohomish county\meadowdale park\construction plans\0723-PL-DHA Survey.dwg X-3

SECTION 5, TOWNSHIP 27 N, RANGE 4 E

VERTICAL SCALE 1" = 5'



NOTE: FIGURE PROVIDED BY DUANE HARTMAN & ASSOCIATES, DATED JUNE 5, 2023.

RECORD DRAWINGS
THESE RECORD DRAWINGS HAVE BEEN PREPARED USING INFORMATION BY OTHERS. ANCHOR QEA, LLC HAS NOT VERIFIED THE ACCURACY OR COMPLETENESS OF CHARTERED SURVEY DATA. ESTUARY AND BEACH TOPOGRAPHIC SURVEY (MAY 31, 2023)
FOR ANY ERRORS OR OMISSIONS WHICH MAY BE INCORPORATED HEREIN AS A RESULT.



Signature

REVISIONS				
REV	DATE	BY	APP'D	DESCRIPTION
1	10-25-23	CH	MR	RECORD DRAWINGS

DESIGNED BY: PH
DRAWN BY: CH/TG
CHECKED BY: DR
APPROVED BY: PH
SCALE: AS NOTED
DATE: OCTOBER 2023

**MEADOWDALE BEACH PARK
AND ESTUARY DESIGN**
PFN 19-103913LDA

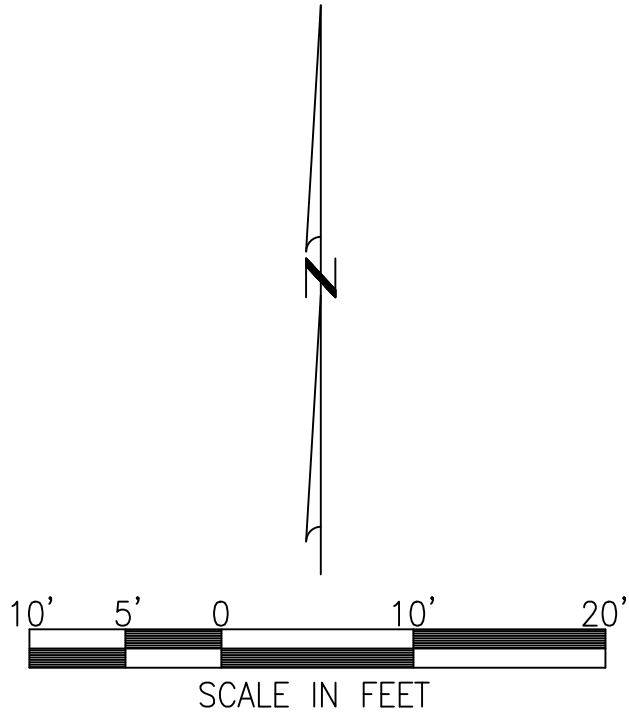
**ESTUARY AND BEACH TOPOGRAPHIC SURVEY
(MAY 31, 2023)**

X-3
SHEET # 81 OF 82

SECTION 5, TOWNSHIP 27 N., RANGE 4 E

LEGEND

- SYMBOLS:**
- WATER METER
 - JUNCTION BOX
 - SANITARY/ STORM CLEAN-OUT
 - SANITARY SEWER MANHOLE
 - DHA SURVEY CONTROL
 - MONUMENT IN CASE
 - WETLAND/ ORDINARY HIGH WATER FLAG
 - SIGN
 - STORM DRAIN CATCH BASIN(TYPE I)
 - YARD LIGHT
 - POWER VAULT
 - YARD DRAIN
 - BOLLARD
 - MONITOR WELL
 - DECIDUOUS
 - CONIFER



ABBREVIATIONS:

- CONC CONCRETE
P.A. PLANTED AREA
PVC POLYVINYL CHLORIDE PIPE
(A) APPROXIMATE
PRD PER RECORD DRAWING
RD ROOF DRAIN
CO CLEAN-OUT
WP WOOD POST

TREES:

- C CEDAR
F FIR
P PINE
DEC DECIDUOUS
HEM HEMLOCK
A ALDER
M MAPLE
CTN COTTONWOOD
ORN ORNAMENTAL
B BIRCH

LINETYPES:

- EDGE OF ASPHALT
CREEK TOE
CREEK TOP
FENCING
SD UNDERGROUND STORM LINE
SS UNDERGROUND SEWER GRAVITY LINE
FM UNDERGROUND SEWER FORCEMAIN LINE
W UNDERGROUND WATER LINE
E UNDERGROUND POWER LINE
T UNDERGROUND TELEPHONE LINE
ROCKERY

MEADOWDALE BEACH PARK
ENTRY GATE SLOPE SURVEY
FOR: SHANNON AND WILSON

SURVEYING AND MAPPING BY:
DUANE HARTMAN & ASSOCIATES, INC.
Surveyors

16928 WOODINVILLE-REDMOND ROAD, B-107 (425) 483-5355
WOODINVILLE, WASHINGTON 98072 FAX (425) 483-4650
DHA JOB No. 16-2604/22-3258

HORIZONTAL DATUM:

WASHINGTON STATE COORDINATE SYSTEM, NORTH ZONE NAD83(91), US FEET UTILIZING RTK GPS FIELD PROCEDURES

CONTOUR INTERVAL: (2') TWO FOOT CONTOURS

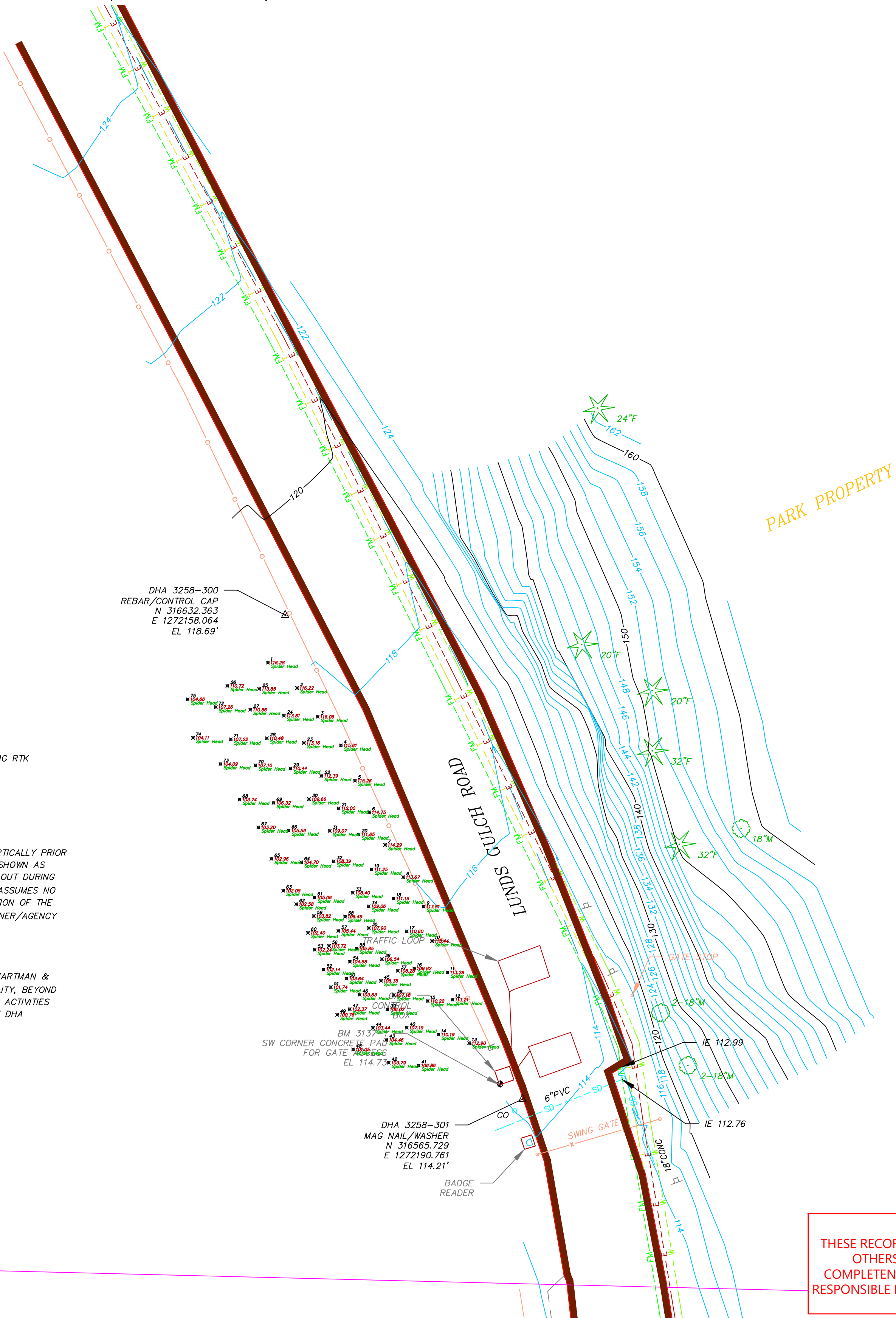
VERTICAL DATUM: NAVD88, US FEET.

UTILITIES MAPPING:

ALL EXISTING UTILITIES SHOWN HEREIN ARE TO BE VERIFIED HORIZONTALLY AND VERTICALLY PRIOR TO ANY CONSTRUCTION. ALL EXISTING FEATURES INCLUDING BURIED UTILITIES ARE SHOWN AS INDICATED BY RECORD LOCATION OR FIELD TIED AS A RESULT OF A UTILITY PAINT-OUT DURING THE COURSE OF THE FIELD SURVEY. DUANE HARTMAN & ASSOCIATES, INC. (DHA) ASSUMES NO LIABILITY FOR THE ACCURACY OF THE RECORD INFORMATION. FOR THE FINAL LOCATION OF THE EXISTING UTILITIES IN AREAS CRITICAL TO CONSTRUCTION, CONTACT THE UTILITY OWNER/AGENCY AND UTILITIES UNDERGROUND CENTER (800/424-5555).

TOPOGRAPHIC MAPPING:

THE MAP SHOWN HEREON IS THE RESULT OF A TOPOGRAPHIC SURVEY BY DUANE HARTMAN & ASSOCIATES, INC. (DHA) COMPLETED IN SEPTEMBER 2022. DHA ASSUMES NO LIABILITY, BEYOND SAID DATE, FOR ANY FUTURE SURFACE FEATURE MODIFICATIONS OR CONSTRUCTION ACTIVITIES THAT MAY OCCUR WITHIN OR ADJOINING THE PERIMETER OF THIS SURVEY. CONTACT DHA (425) 483-5355 FOR SITE UPDATES AND VERIFICATIONS.



NOTES:

1. SURVEY PROVIDED BY DUANE HARTMAN & ASSOCIATES, INC DATED JUNE 2021.

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WOODINVILLE, WASHINGTON 98072 FAX (425) 483-4650



REVISIONS					DESCRIPTION
REV	DATE	BY	APP'D		
1	10-25-23	CH	MR		RECORD DRAWINGS

DESIGNED BY: -
DRAWN BY: -
CHECKED BY: DR
APPROVED BY: -
SCALE: -
DATE: OCTOBER 2023

MEADOWDALE BEACH PARK
AND ESTUARY DESIGN
PFN 19-103913LDA

SPIRAL NAIL WALL AS-BUILT

X-4

SHEET # 82 OF 82