



MARITIME DIVISION

SITE 23 & 25 RESTORATION

100 % REVIEW SET

SHEET NO.	SHEET TITLE	SHEET NO.	SHEET TITLE	SHEET NO.	SHEET TITLE
GENERAL DRAWINGS		C8.0	GRADING PLAN (1 OF 5)	MECHANICAL DRAWINGS	
G1.0	TITLE SHEET AND INDEX OF DRAWINGS	C8.1	GRADING PLAN (2 OF 5)	M1.0	LEGEND, GENERAL NOTES, DEMOLITION NOTES, AND RESTORATION NOTES
G1.1	ABBREVIATIONS AND LEGEND	C8.2	GRADING PLAN (3 OF 5)	M2.0	WATER PLAN – DRINKING FOUNTAIN, DRAINAGE SWALE, & WATER SUPPLY
CIVIL DRAWINGS		C8.3	GRADING PLAN (4 OF 5)	M3.0	WATER FOUNTAIN, REINFORCED CONCRETE EQUIPMENT PAD, & SECTIONS & DETAILS
C1.0	SITE PLAN, VICINITY MAP, AND LEGAL DESCRIPTION	C8.4	GRADING PLAN (5 OF 5)	ELECTRICAL DRAWINGS	
C2.0	PHASING & TRAFFIC PLAN	C8.5	GRADING DATA – SHEET 1	E1.0	ELECTRICAL LEGEND AND SYMBOLS
C2.1	CONTRACTOR ACCESS AREA DETAILS	C8.6	GRADING DATA – SHEET 2	E2.0	ELECTRICAL SITE PLAN
C3.0	TESC PLAN – (1 OF 4)	C8.7	GRADING DATA – SHEET 3	E3.0	ELECTRICAL LIGHTING ENLARGED PLANS – (1 OF 2)
C3.1	TESC PLAN – (2 OF 4)	C8.8	GRADING SECTIONS – SHEET 25 – SHEET 1	E3.1	ELECTRICAL LIGHTING ENLARGED PLANS – (2 OF 2)
C3.2	TESC PLAN – (3 OF 4)	C8.9	GRADING SECTIONS – SHEET 25 – SHEET 2	E4.0	ELECTRICAL DETAILS
C3.3	TESC PLAN – (4 OF 4)	C8.10	GRADING SECTIONS – SHEET 25 – SHEET 3	ARCHITECTURAL DRAWINGS	
C3.4	TESC NOTES AND DETAILS	C8.11	GRADING SECTIONS – SHEET 25 – SHEET 4	A2.0	PUBLIC ACCESS AREA PARTIAL PLAN (1 OF 2)
C3.5	TESC DETAILS	C9.0	PAVING DETAILS	A2.1	PUBLIC ACCESS AREA PARTIAL PLAN (2 OF 2)
C4.0	EXISTING CONDITIONS AND DEMOLITION PLAN – (1 OF 4)	C9.1	FENCE DETAILS	A2.2	PUBLIC ACCESS AREA – VISITOR VEHICLE ACCESS PLAN
C4.1	EXISTING CONDITIONS AND DEMOLITION PLAN – (2 OF 4)	STRUCTURAL DRAWINGS		A3.0	PUBLIC ACCESS AREA DETAILS – SHEET 1
C4.2	EXISTING CONDITIONS AND DEMOLITION PLAN – (3 OF 4)	S1.0	STRUCTURAL NOTES	A3.1	PUBLIC ACCESS AREA DETAILS – SHEET 2
C4.3	EXISTING CONDITIONS AND DEMOLITION PLAN – (4 OF 4)	S2.0	PIER PLAN	MAJOR CONTRACT	
C4.4	SHEET PILE WALL DEMOLITION	S2.1	PIER ELEVATION AND OTHER PILES	RECOMMENDED FOR APPROVAL	
C4.5	NATIVE MATERIAL INFORMATION	S2.2	PIER DETAILS – SHEET 1	_____ DATE	
C5.0	HABITAT PLAN – (1 OF 4)	S2.3	PIER DETAILS – SHEET 2	_____ DATE	
C5.1	HABITAT PLAN – (2 OF 4)	S2.4	PIER DETAILS – SHEET 3	APPROVED BY _____ DATE	
C5.2	HABITAT PLAN – (3 OF 4)	S2.5	PIER DETAILS – SHEET 4	_____ DATE	
C5.3	HABITAT PLAN – (4 OF 4)	S2.6	PIER DETAILS – SHEET 5	DATE _____	
C6.0	HABITAT SECTIONS – SHEET 1	S2.7	PIER DETAILS – SHEET 6	WORK PROJECT NO. 105563	
C6.1	HABITAT SECTIONS – SHEET 2	S3.0	BRIDGE PLAN	PORT OF SEATTLE NO. + SHEET NUMBER	
C6.2	HABITAT SECTIONS – SHEET 3	S3.1	BRIDGE ELEVATION	117-1201 G1.0	
C7.0	HABITAT DETAILS – SHEET 1	S3.2	BRIDGE DETAILS		
C7.1	HABITAT DETAILS – SHEET 2	S4.0	OBSERVATION PLATFORM PLAN AND ELEVATION		
C7.2	HABITAT DETAILS – SHEET 3	S4.1	OBSERVATION PLATFORM DETAILS		
C7.3	HABITAT DETAILS – SHEET 4	S5.0	DEBRIS DEFLECTOR		
C7.4	HABITAT DETAILS – SHEET 5	S5.1	PUBLIC ACCESS AREA STRUCTURAL DETAILS		
C7.5	HABITAT DETAILS – SHEET 6	S5.2	LADDER DETAILS		
C7.6	HABITAT DETAILS – SHEET 7				



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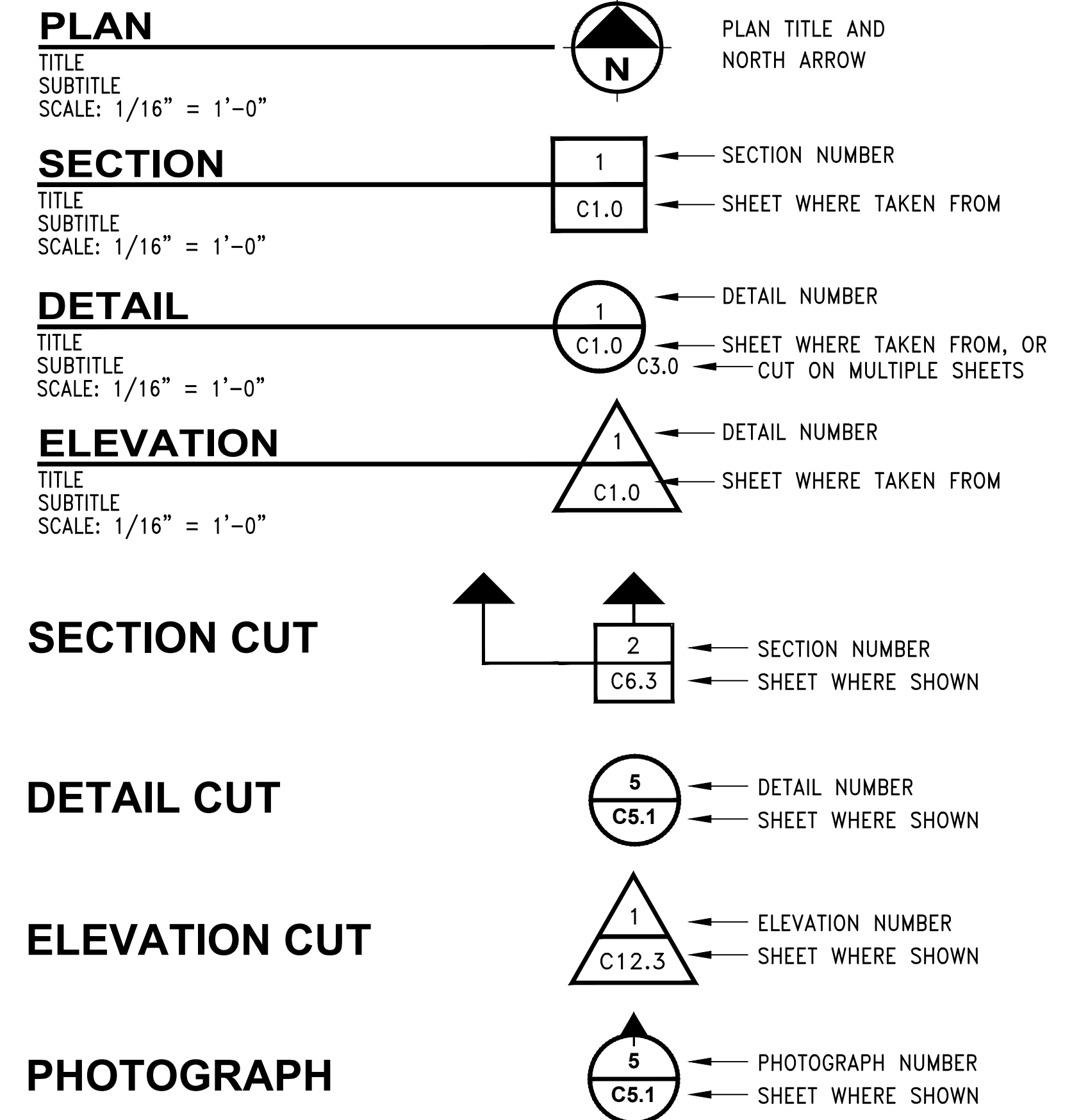
GENERAL ABBREVIATIONS

ACP	ASPHALT CONCRETE PAVEMENT	H	HIGH	SCH	SCHEDULE
AB	ANCHOR BOLT	HDPE	HIGH DENSITY POLYETHYLENE	SCL	SEATTLE CITY LIGHT
ABAN	ABANDON	HH	HANDHOLE	SD	STORM DRAIN
ALT	ALTERNATE	HMA	HOT MIX ASPHALT	SECT	SECTION
ASTM	AMERICAN SOCIETY FOR TESTING MATERIAL	HORIZ	HORIZONTAL	SHT	SHEET
AWG	AMERICAN WIRE GAUGE			SPEC	SPECIFICATION(S)
&	AND	IBC	INTERNATIONAL BUILDING CODE	SPDT	SINGLE PHASE DOUBLE THROW
APPROX	APPROXIMATE	IE	INVERT ELEVATION	SPU	SEATTLE PUBLIC UTILITIES
ASPH	ASPHALT	ID	INSIDE DIAMETER	SQ	SQUARE
AC	ASPHALTIC CONCRETE	IWS	INDUSTRIAL WASTE SEWER	SF	SQUARE FOOT/FEET
AD	AREA DRAIN	INV	INVERT	SI	SQUARE INCH/INCHES
@	AT			SY	SQUARE YARD/YARDS
AUX	AUXILIARY			SIM	SIMILAR
AVG	AVERAGE	JT	JOINT	STA	STATION
		JCT	JUNCTION	STM	STEAM
BC	BOTTOM OF CURB	J OR JB	JUNCTION BOX	STL	STEEL
BMK	BENCH MARK			ST	STREET
BITUM	BITUMINOUS	K	KIP (1000 LB)	STR	STRUCTURAL
BMP	BEST MANAGEMENT PRACTICES			STD	STANDARD
BW	BOTTOM OF WALL	LB	POUND	SWPE	SOLID WALL POLYETHYLENE PIPE
		LF	LINEAR FEET/FOOT	SWPPP	STORMWATER POLLUTION PREVENTION PLAN
CB	CATCH BASIN	LIN	LINEAR	SDMH	STORM DRAIN MANHOLE
CPD	CAPPED	LTG	LIGHTING		
CI	CAST IRON	LWD	LARGE WOODY DEBRIS	TAN	TANGENT
CEM	CEMENT			TBD	TO BE DETERMINED
CJ	CONSTRUCTION JOINT	MAX	MAXIMUM	TC	TOP OF CONCRETE
CKT	CIRCUIT	MECH	MECHANICAL	TE	TOP ELEVATION
Q OR C/L	CENTERLINE	MEMB	MEMBRANE	TEL	TELEPHONE
CL	CLASS	MFR	MANUFACTURER	TEMP	TEMPORARY
CLR	CLEARANCE	MH	MANHOLE	TESC	TEMPORARY EROSION/SEDIMENTATION CONTROL
CMP	CORRUGATED METAL PIPE	MHHW	MEAN HIGHER HIGH WATER	THK	THICKNESS
C.O.	CLEANOUT	MIN	MINIMUM	TP	TOP OF PAVEMENT
CONC	CONCRETE	MISC	MISCELLANEOUS	TR	TOP OF RISER
COND	CONDUIT	MLLW	MEAN LOWER LOW WATER	TW	TOP OF WALL
CONST	CONSTRUCTION			TYP	TYPICAL
CONT	CONTINUOUS	N	NORTH		
CONTR	CONTRACTOR	NAVD-88	NORTH AMERICAN VERTICAL DATUM OF 1988	UMC	UNIFORM MECHANICAL CODE
COS	CITY OF SEATTLE	NC	NORMALLY CLOSED	UNO	UNLESS NOTED OTHERWISE
CP	CONCRETE PIPE	NGVD-29	NATIONAL GEODETIC VERTICAL DATUM OF 1929	UPC	UNIFORM PLUMBING CODE
CR	CRUSHED ROCK	N.I.C.	NOT IN CONTRACT		
CRS	PVC COATED RIGID STEEL CONDUIT	NO.	NUMBER	V	VOLT
CSBC	CRUSHED SURFACING BASE COURSE	NPP	NON-PERFORATED PIPE	VERT	VERTICAL
CSTC	CRUSHED SURFACING TOP COURSE	NTS	NOT TO SCALE	VOL	VOLUME
CU	COPPER			VS	VERSUS
CU.FT.	CUBIC FOOT / CUBIC FEET	OC	ON CENTER	W	WATER
CU.YD.	CUBIC YARD	OWS	OIL / WATER SEPARATOR	WP	WEATHERPROOF
				WSP	WATER SERVICE PIPE
DIA	DIAMETER	P	POWER	WT	WEIGHT
DIM	DIMENSION	P	PHASE	WWF	WELDED WIRE FABRIC
DI, DIP	DUCTILE IRON PIPE	PP	PERFORATED PIPE		
DN	DOWN	PAV	PAVEMENT		
DWG	DRAWING	PLCS	PLACES		
		PCP	PORTLAND CEMENT CONCRETE PAVEMENT		
E	EAST	PCF	POUND PER CUBIC FOOT		
EA	EACH	PC	POINT OF CURVATURE		
EL OR ELEV	ELEVATION	PCVC	POINT OF CURVATURE - VERTICAL CURVE		
ELEC	ELECTRICAL	PTVC	POINT OF TANGENCY - VERTICAL CURVE		
EQ	EQUAL	PI	POINT OF INTERSECTION		
EQUIV	EQUIVALENT	PIVC	POINT OF INTERSECTION FOR VERTICAL CURVE		
ES	EACH SIDE	POC	POINT ON CURVE		
ESC	EROSION AND SEDIMENTATION CONTROL	PRC	POINT OF REVERSE CURVE		
EXIST	EXISTING	PT	POINT OF TANGENCY		
EXP JT	EXPANSION JOINT	P.O.S./PORT	PORT OF SEATTLE		
ENGR	ENGINEER	PREFAB	PREFABRICATED		
EW	EACH WALL, EACH WAY	PROJ	PROJECT		
		PSF	POUND PER SQUARE FOOT		
FHP	FIRE HYDRANT PROTECTION	PSI	POUND PER SQUARE INCH		
FIN	FINISHED	PT	POINT		
FIPT	FEMALE IRON PIPE THREAD	PVC	POLYVINYL CHLORIDE		
FM	FORCE MAIN	PVMT	PAVEMENT		
FT	FOOT (FEET)				
FTG	FOOTING	R	RADIUS		
		RP	RADIUS POINT		
GALV	GALVANIZED	RECD	RECEIVED		
GE	GRATE ELEVATION	RCP	REINFORCED CONCRETE PIPE		
GS	GALVANIZED STEEL	REQD	REQUIRED		
GFI	GROUND FAULT INTERRUPTER	REV	REVISION/REVISED		
G	GROUND (ELECTRICAL)	RGS	RIGID GALVANIZED STEEL		
GND	GROUND	REF	REFERENCE		
GR	GRADE	RD	ROOF DRAIN		
GV	GATE VALVE	R-O-W	RIGHT-OF-WAY		

GENERAL NOTES

- ALL PAVED SURFACES INCLUDING ROADWAYS, SIDEWALKS, CURBS, ETC., OUTSIDE THE LIMITS OF WORK WHICH ARE DAMAGED BY THE CONTRACTOR SHALL BE PROMPTLY REPAIRED AS REQUIRED BY THE ENGINEER, AT THE CONTRACTOR'S EXPENSE.
- BASE MAP INFORMATION WAS OBTAINED FROM A COMPILATION OF RECORD DRAWINGS AND SOME FIELD SURVEY. DUE TO ACCESSIBILITY LIMITATION, ACTUAL FIELD SURVEY WAS PERFORMED IN CERTAIN AREAS ONLY. LOCATION OF IMPROVEMENTS MAY VARY FROM THOSE INDICATED ON DRAWINGS. PORT OF SEATTLE WILL ESTABLISH CONTROL POINTS FOR THIS WORK.
- THE CONTRACTOR SHALL NOTIFY THE SEATTLE FIRE DEPARTMENT DISPATCHER (206-386-1495), AND THE CITY OF SEATTLE TWENTY-FOUR (24) HOURS IN ADVANCE OF ALL STREET CLOSURES OR OTHER ACCESS BLOCKAGE. STREET USE PERMIT MAY BE REQUIRED. PERMIT SHALL BE ACQUIRED BY THE CONTRACTOR IF REQUIRED.
- ALL LOCATIONS OF EXISTING UTILITIES SHOWN HAVE BEEN OBTAINED FROM AVAILABLE RECORDS, AND SHOULD BE CONSIDERED APPROXIMATE ONLY AND NOT NECESSARILY COMPLETE. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY THE ACCURACY OF ALL UTILITY LOCATIONS SHOWN AND TO FURTHER LOCATE AND AVOID ANY OTHER UTILITIES NOT SHOWN WHICH MAY BE AFFECTED BY THE IMPLEMENTATION OF THIS PLAN.
- THE CONTRACTOR SHALL PROVIDE AND MAINTAIN TEMPORARY SEDIMENTATION COLLECTION FACILITIES AND WATER QUALITY PROTECTION MEASURES IN ACCORDANCE WITH THE TESC PLAN AND DETAIL DRAWINGS AND THE SPECIFICATIONS.
- PROTECT ALL ADJACENT PROPERTIES INCLUDING, BUT NOT LIMITED TO CITY OF SEATTLE AND BOEING GREEN SPACES, BIOSWALES, WALKWAYS, AND STORMWATER ELEMENTS, AND THE SOUTH PARK MARINA. NO DISCHARGE OF WATER FROM THE PROJECT SITE SHALL BE ALLOWED TO ADJACENT PROPERTIES.

REFERENCES, TITLES, AND SYMBOLS



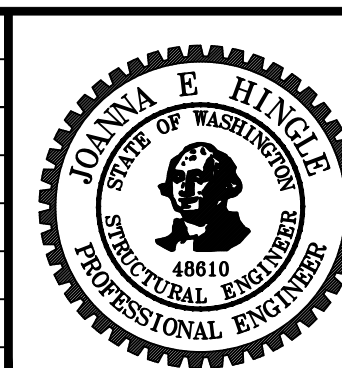
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CALL 2 DAYS BEFORE YOU DIG
1-800-424-5555

PROJECT ENGR./ARCH:
DESIGNER:
DRAWN BY:
SCALE:
DATE:
CHECKED BY:
CHECKED/APPROVED BY:

REVISIONS					
NO.	DATE	BY	DESCRIPTION	APP'D	NO.
5	11/17		ISSUED FOR BID		



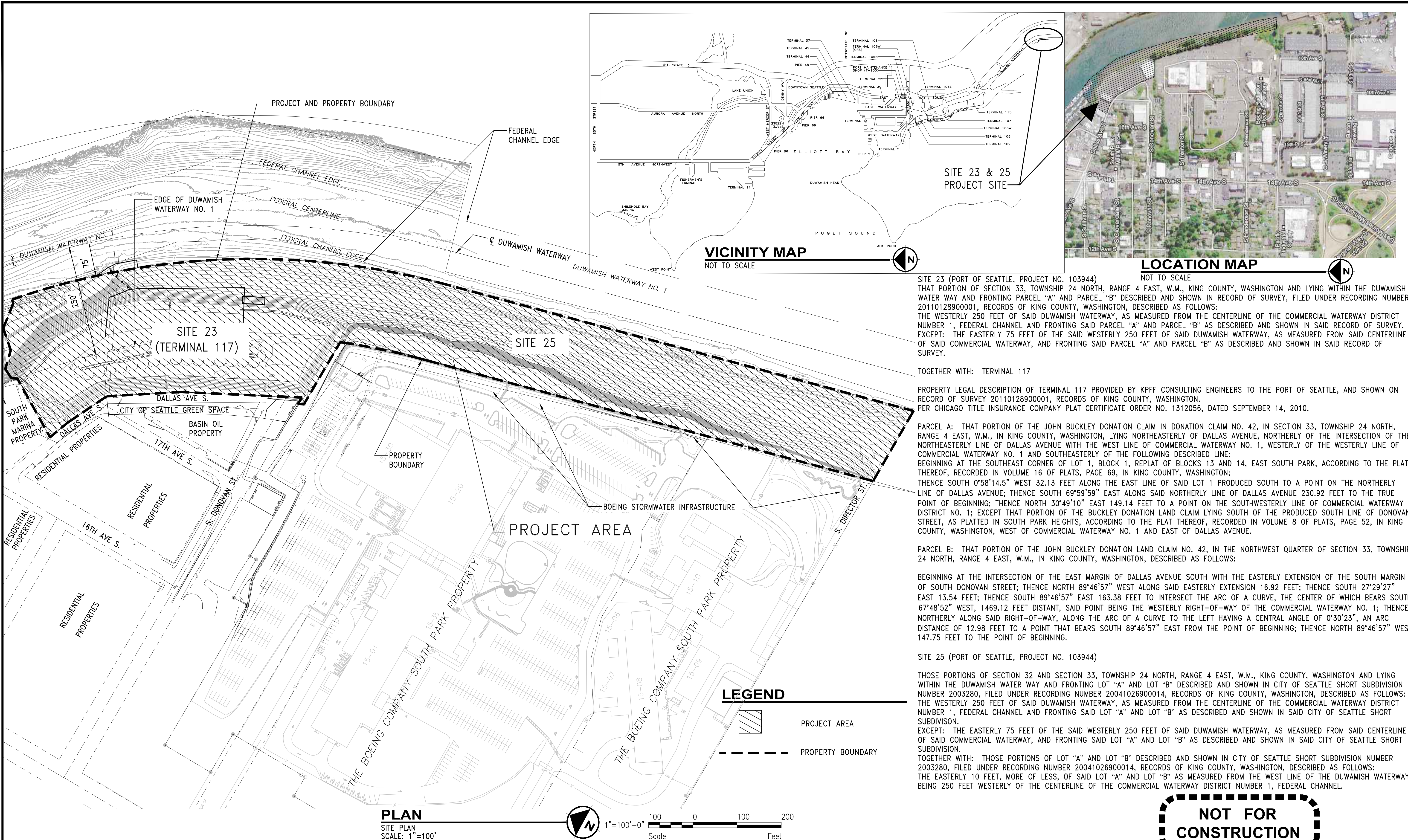
PROJECT MANAGER:
TICSON MACH
PROJECT ENGINEER:
JOANNA HINGLE
DESIGN ENGINEER:
JOANNA HINGLE
DRAWER:
KEN LANE
SCALE:
NONE
DATE:
5/11/2017
CHECKED/APPROVED BY:

Port of Seattle MARITIME DIVISION

PROJECT: SITE 23 & 25 RESTORATION

SHEET TITLE: **ABBREVIATIONS AND LEGEND**

WORK PROJECT NO.
105563
CONSULTANT'S NO.
PORT OF SEATTLE NO.
117-1201
G1.1



SITE 23 (PORT OF SEATTLE, PROJECT NO. 103944)
 THAT PORTION OF SECTION 33, TOWNSHIP 24 NORTH, RANGE 4 EAST, W.M., KING COUNTY, WASHINGTON AND LYING WITHIN THE DUWAMISH WATERWAY AND FRONTING PARCEL "A" AND PARCEL "B" DESCRIBED AND SHOWN IN RECORD OF SURVEY, FILED UNDER RECORDING NUMBER 20110128900001, RECORDS OF KING COUNTY, WASHINGTON, DESCRIBED AS FOLLOWS:
 THE WESTERLY 250 FEET OF SAID DUWAMISH WATERWAY, AS MEASURED FROM THE CENTERLINE OF THE COMMERCIAL WATERWAY DISTRICT NUMBER 1, FEDERAL CHANNEL AND FRONTING SAID PARCEL "A" AND PARCEL "B" AS DESCRIBED AND SHOWN IN SAID RECORD OF SURVEY. EXCEPT: THE EASTERLY 75 FEET OF THE SAID WESTERLY 250 FEET OF SAID DUWAMISH WATERWAY, AS MEASURED FROM SAID CENTERLINE OF SAID COMMERCIAL WATERWAY, AND FRONTING SAID PARCEL "A" AND PARCEL "B" AS DESCRIBED AND SHOWN IN SAID RECORD OF SURVEY.

TOGETHER WITH: TERMINAL 117
 PROPERTY LEGAL DESCRIPTION OF TERMINAL 117 PROVIDED BY KPFF CONSULTING ENGINEERS TO THE PORT OF SEATTLE, AND SHOWN ON RECORD OF SURVEY 20110128900001, RECORDS OF KING COUNTY, WASHINGTON.
 PER CHICAGO TITLE INSURANCE COMPANY PLAT CERTIFICATE ORDER NO. 1312056, DATED SEPTEMBER 14, 2010.

PARCEL A: THAT PORTION OF THE JOHN BUCKLEY DONATION CLAIM IN DONATION CLAIM NO. 42, IN SECTION 33, TOWNSHIP 24 NORTH, RANGE 4 EAST, W.M., IN KING COUNTY, WASHINGTON, LYING NORTHEASTERLY OF DALLAS AVENUE, NORTHERLY OF THE INTERSECTION OF THE NORTHEASTERLY LINE OF DALLAS AVENUE WITH THE WEST LINE OF COMMERCIAL WATERWAY NO. 1, WESTERLY OF THE WESTERLY LINE OF COMMERCIAL WATERWAY NO. 1 AND SOUTHEASTERLY OF THE FOLLOWING DESCRIBED LINE:
 BEGINNING AT THE SOUTHEAST CORNER OF LOT 1, BLOCK 1, REPLAT OF BLOCKS 13 AND 14, EAST SOUTH PARK, ACCORDING TO THE PLAT THEREOF, RECORDED IN VOLUME 16 OF PLATS, PAGE 69, IN KING COUNTY, WASHINGTON;
 THENCE SOUTH 0°58'14.5" WEST 32.13 FEET ALONG THE EAST LINE OF SAID LOT 1 PRODUCED SOUTH TO A POINT ON THE NORTHERLY LINE OF DALLAS AVENUE; THENCE SOUTH 69°59'59" EAST ALONG SAID NORTHERLY LINE OF DALLAS AVENUE 230.92 FEET TO THE TRUE POINT OF BEGINNING; THENCE NORTH 30°49'10" EAST 149.14 FEET TO A POINT ON THE SOUTHWESTERLY LINE OF COMMERCIAL WATERWAY DISTRICT NO. 1; EXCEPT THAT PORTION OF THE BUCKLEY DONATION LAND CLAIM LYING SOUTH OF THE PRODUCED SOUTH LINE OF DONOVAN STREET, AS PLATTED IN SOUTH PARK HEIGHTS, ACCORDING TO THE PLAT THEREOF, RECORDED IN VOLUME 8 OF PLATS, PAGE 52, IN KING COUNTY, WASHINGTON, WEST OF COMMERCIAL WATERWAY NO. 1 AND EAST OF DALLAS AVENUE.

PARCEL B: THAT PORTION OF THE JOHN BUCKLEY DONATION LAND CLAIM NO. 42, IN THE NORTHWEST QUARTER OF SECTION 33, TOWNSHIP 24 NORTH, RANGE 4 EAST, W.M., IN KING COUNTY, WASHINGTON, DESCRIBED AS FOLLOWS:
 BEGINNING AT THE INTERSECTION OF THE EAST MARGIN OF DALLAS AVENUE SOUTH WITH THE EASTERLY EXTENSION OF THE SOUTH MARGIN OF SOUTH DONOVAN STREET; THENCE NORTH 89°46'57" WEST ALONG SAID EASTERLY EXTENSION 16.92 FEET; THENCE SOUTH 27°29'27" EAST 13.54 FEET; THENCE SOUTH 89°46'57" EAST 163.38 FEET TO INTERSECT THE ARC OF A CURVE, THE CENTER OF WHICH BEARS SOUTH 67°48'52" WEST, 1469.12 FEET DISTANT, SAID POINT BEING THE WESTERLY RIGHT-OF-WAY OF THE COMMERCIAL WATERWAY NO. 1; THENCE NORTHERLY ALONG SAID RIGHT-OF-WAY, ALONG THE ARC OF A CURVE TO THE LEFT HAVING A CENTRAL ANGLE OF 0°30'23", AN ARC DISTANCE OF 12.98 FEET TO A POINT THAT BEARS SOUTH 89°46'57" EAST FROM THE POINT OF BEGINNING; THENCE NORTH 89°46'57" WEST 147.75 FEET TO THE POINT OF BEGINNING.

SITE 25 (PORT OF SEATTLE, PROJECT NO. 103944)
 THOSE PORTIONS OF SECTION 32 AND SECTION 33, TOWNSHIP 24 NORTH, RANGE 4 EAST, W.M., KING COUNTY, WASHINGTON AND LYING WITHIN THE DUWAMISH WATERWAY AND FRONTING LOT "A" AND LOT "B" DESCRIBED AND SHOWN IN CITY OF SEATTLE SHORT SUBDIVISION NUMBER 2003280, FILED UNDER RECORDING NUMBER 20041026900014, RECORDS OF KING COUNTY, WASHINGTON, DESCRIBED AS FOLLOWS:
 THE WESTERLY 250 FEET OF SAID DUWAMISH WATERWAY, AS MEASURED FROM THE CENTERLINE OF THE COMMERCIAL WATERWAY DISTRICT NUMBER 1, FEDERAL CHANNEL AND FRONTING SAID LOT "A" AND LOT "B" AS DESCRIBED AND SHOWN IN SAID CITY OF SEATTLE SHORT SUBDIVISION.
 EXCEPT: THE EASTERLY 75 FEET OF THE SAID WESTERLY 250 FEET OF SAID DUWAMISH WATERWAY, AS MEASURED FROM SAID CENTERLINE OF SAID COMMERCIAL WATERWAY, AND FRONTING SAID LOT "A" AND LOT "B" AS DESCRIBED AND SHOWN IN SAID CITY OF SEATTLE SHORT SUBDIVISION.
 TOGETHER WITH: THOSE PORTIONS OF LOT "A" AND LOT "B" DESCRIBED AND SHOWN IN CITY OF SEATTLE SHORT SUBDIVISION NUMBER 2003280, FILED UNDER RECORDING NUMBER 20041026900014, RECORDS OF KING COUNTY, WASHINGTON, DESCRIBED AS FOLLOWS:
 THE EASTERLY 10 FEET, MORE OR LESS, OF SAID LOT "A" AND LOT "B" AS MEASURED FROM THE WEST LINE OF THE DUWAMISH WATERWAY, BEING 250 FEET WESTERLY OF THE CENTERLINE OF THE COMMERCIAL WATERWAY DISTRICT NUMBER 1, FEDERAL CHANNEL.

LEGEND
 PROJECT AREA
 PROPERTY BOUNDARY

PLAN
 SITE PLAN
 SCALE: 1"=100'

1"=100'-0" 100 0 100 200
 Scale Feet

NOT FOR CONSTRUCTION

CALL 2 DAYS BEFORE YOU DIG
 1-800-424-5555

PROJECT ENGR./ARCH:
 DESIGNER:
 DRAWN BY:
 SCALE:
 DATE:
 CHECKED BY:
 CHECKED/APPROVED BY:

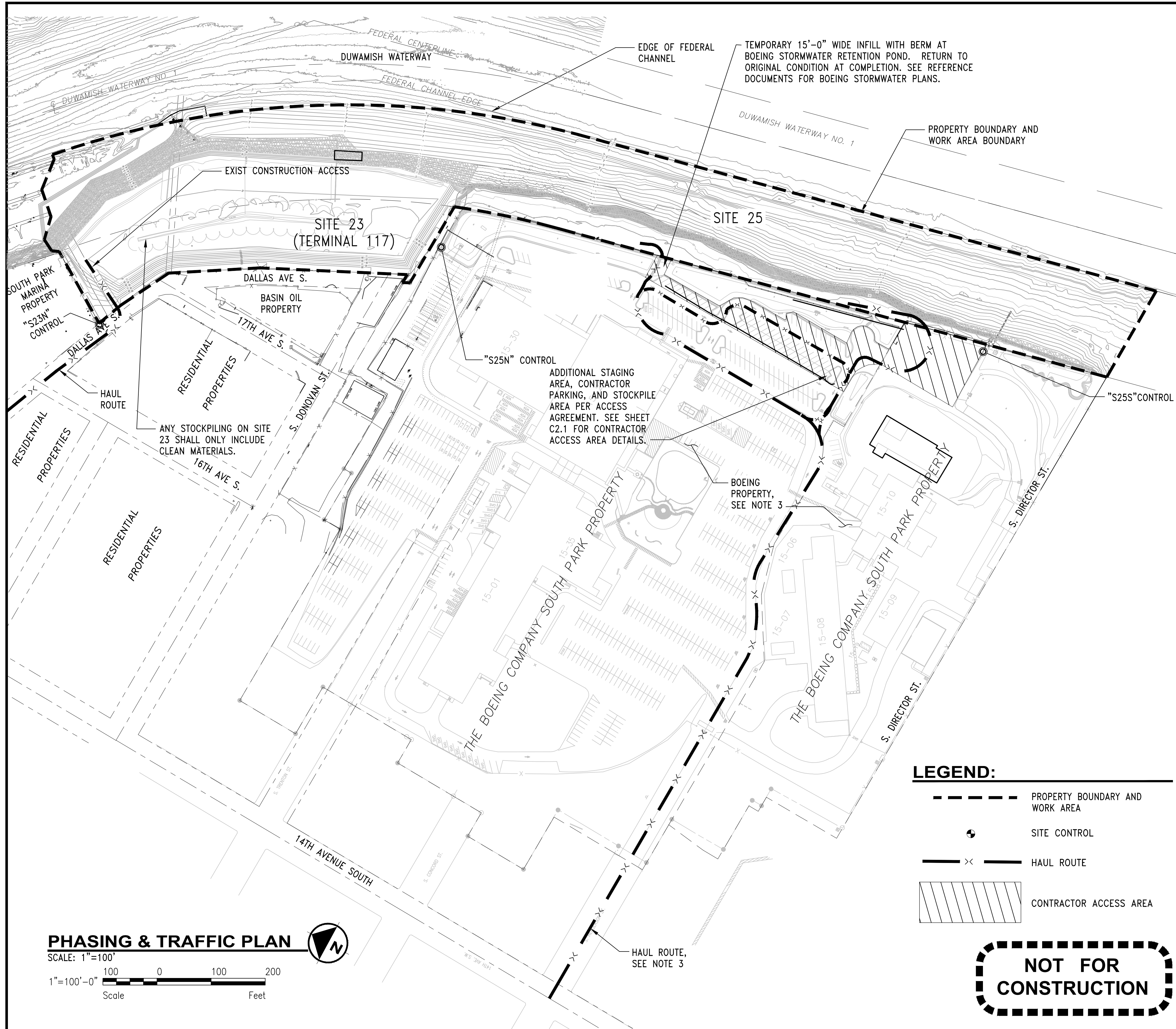
REVISIONS									
NO.	DATE	BY	DESCRIPTION	APP'D	NO.	DATE	BY	DESCRIPTION	APP'D
	5/11/17		ISSUED FOR BID						



PROJECT MANAGER:
 TICSÓN MACH
 PROJECT ENGINEER:
 JOANNA HINGLE
 DESIGN ENGINEER:
 ATTILA LASZLO
 DRAFTER:
 KEN LANE
 SCALE:
 1"=100'
 DATE:
 5/11/2017
 CHECKED/APPROVED BY:

Port of Seattle MARITIME DIVISION
 PROJECT: **SITE 23 & 25 RESTORATION**
 SHEET TITLE: **SITE PLAN, VICINITY MAP, AND LEGAL DESCRIPTION**

WORK PROJECT NO.
 105563
 CONSULTANT'S NO.
 PORT OF SEATTLE NO.
 117-1201 **C1.0**



PROJECT NOTES:

DATUM:
 UNITS OF MEASUREMENT: U.S. SURVEY FEET.
 COORDINATE SYSTEM: WASHINGTON STATE PLANE NORTH
 HORIZONTAL: THE NORTH AMERICAN DATUM OF 1983, ADJUSTMENT OF 1991 (NAD 83/91)
 VERTICAL: (BATHYMETRY) MEAN LOWER LOW WATER (MLLW), TIDAL EPOCH 1960-1978.
 THE MLLW DATUM IS 2.52 FT BELOW THE NAVD88 DATUM (ACOE STA ID92)
VERTICAL BENCHMARK : NGS DESIGNATION: 5289
 NGS PID: DL2062
 VERTICAL ORDER: SECOND CLASS I
 NAVD 88 ELEVATION: 18.35 FEET (5.592 METERS)
 SURVEY DISK SET IN BRIDGE RAIL.
 STAMPED: 5289
 MARKED LOGO: WA1960
 STATION MARKED LOCATED IN THE NORTHWEST CORNER OF BRIDGE HANDRAIL
 BASE/WING WALL OF SOUTH PARK BRIDGE (14 TH AVENUE S. 16TH - AVENUE S.)

- NOTES :**
- ELEVATIONS SHOWN ON BOEING PROPERTY ARE NAVD88.
 - DATUM OF T117 CLEAN-UP PROJECT IS STATED AS MEAN LOWER LOW WATER, TIDAL EPOCH 1924-1925, WHICH IS 2.42 FEET BELOW THE NAVD 88 DATUM AND 0.10 FEET ABOVE THE PROJECT DATUM. CONTRACTOR SHALL TAKE THIS INTO ACCOUNT WHEN VERIFYING EXISTING CONDITIONS, ESTABLISHING FINAL GRADES, AND COMPLETING ANY OTHER RELATED WORK.

TIDAL DATA - SEATTLE, WA (NOAA STA ID 9447130) TIDAL EPOCH 1983-2001:

TIDE LEVEL	MLLW (FT, 1983-2001)
HIGHEST OBSERVED WATER LEVEL	+14.48
MEAN HIGHER HIGH WATER	+11.36
MEAN HIGH WATER	+10.49
MEAN TIDE LEVEL	+6.66
MEAN LOW WATER	+2.83
NORTH AMERICAN VERTICAL DATUM (NAVD 88)	+2.33
MEAN LOWER LOW WATER	0.00
LOWEST OBSERVED WATER LEVEL	-5.04

SITE HORIZONTAL AND VERTICAL CONTROL:

- POINT "S23N": MAG NAIL AND FLUORESCENT WASHER SET FLUSH IN ASPHALT. POINT LOCATED AT THE NORTHERN END OF SITE 23.
 N: 195643.509
 E: 1275042.297
 EL: 22.890 (MLLW)
- POINT "S25N": MAG NAIL AND FLUORESCENT WASHER SET FLUSH IN ASPHALT. POINT LOCATED AT THE NORTHERN END OF SITE 25.
 N: 195160.792
 E: 1275473.449
 EL: 30.740 (MLLW)
- POINT "S25S": MAG NAIL AND FLUORESCENT WASHER SET FLUSH IN ASPHALT. POINT LOCATED AT THE SOUTHERN END OF SITE 25.
 N: 194190.721
 E: 1275790.241
 EL: 22.580 (MLLW)

PHASING NOTES:

- ALL IN-WATER WORK MUST OCCUR BETWEEN JANUARY 1 AND FEBRUARY 15. IN-WATER WORK WILL NOT BE ALLOWED OUTSIDE OF THOSE DATES.
- IT IS ASSUMED THAT ALL WORK ABOVE EL. +2 FEET SHALL BE DONE IN TIDALLY DRY CONDITIONS UTILIZING SPECIFIED TESC MEASURES. WORK ABOVE EL. +2 FEET DONE IN-WATER MAY BE ALLOWED WITH THE PRIOR APPROVAL OF THE ENGINEER.
- ACCESS TO AND FROM THE WORK AREA VIA BOEING PROPERTY IS AVAILABLE IN ACCORDANCE WITH THE ACCESS AGREEMENT. TRAFFIC MAY OCCUR AT THE NORTHEAST CORNER ONLY DURING WEEKENDS OR AFTER 3:00PM ON WORKDAYS PER THE ACCESS AGREEMENT. ALL VEHICLES MUST BE CLEANED OF DEBRIS PRIOR TO MOVEMENT ON BOEING PROPERTY. SEE REFERENCE DOCUMENTS.
- CONSTRUCTION ACTIVITIES SHALL ONLY BE PERFORMED WHEN THE AREA IN QUESTION IS NOT INUNDATED WITH TIDAL RIVER WATER. A 2 FOOT VERTICAL (ELEVATION), OR A 6 FOOT HORIZONTAL SEPARATION IS REQUIRED BETWEEN THE TIDE LEVEL AND ALL WORK WITHIN THE WATERWAY. SEE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS ASSOCIATED WITH RIVER BANK CONSTRUCTION ACTIVITIES.
- WORK DONE BEHIND THE SHEETPILE WALL PRIOR TO SHEET PILE DEMOLITION IS EXEMPTED FROM NOTE 4. CONTRACTOR SHALL EXPECT TIDAL SEEPAGE BEHIND THE WALL AT ALL TIMES
- NO DISCHARGE OF WATER IS ALLOWED ONTO ADJACENT PROPERTY, INCLUDING ONTO STAGING AREAS ON BOEING PROPERTY.

LEGEND:

- PROPERTY BOUNDARY AND WORK AREA
- SITE CONTROL
- HAUL ROUTE
- CONTRACTOR ACCESS AREA

NOT FOR CONSTRUCTION

PHASING & TRAFFIC PLAN
 SCALE: 1"=100'
 1"=100'-0"
 Scale Feet

CALL 2 DAYS BEFORE YOU DIG
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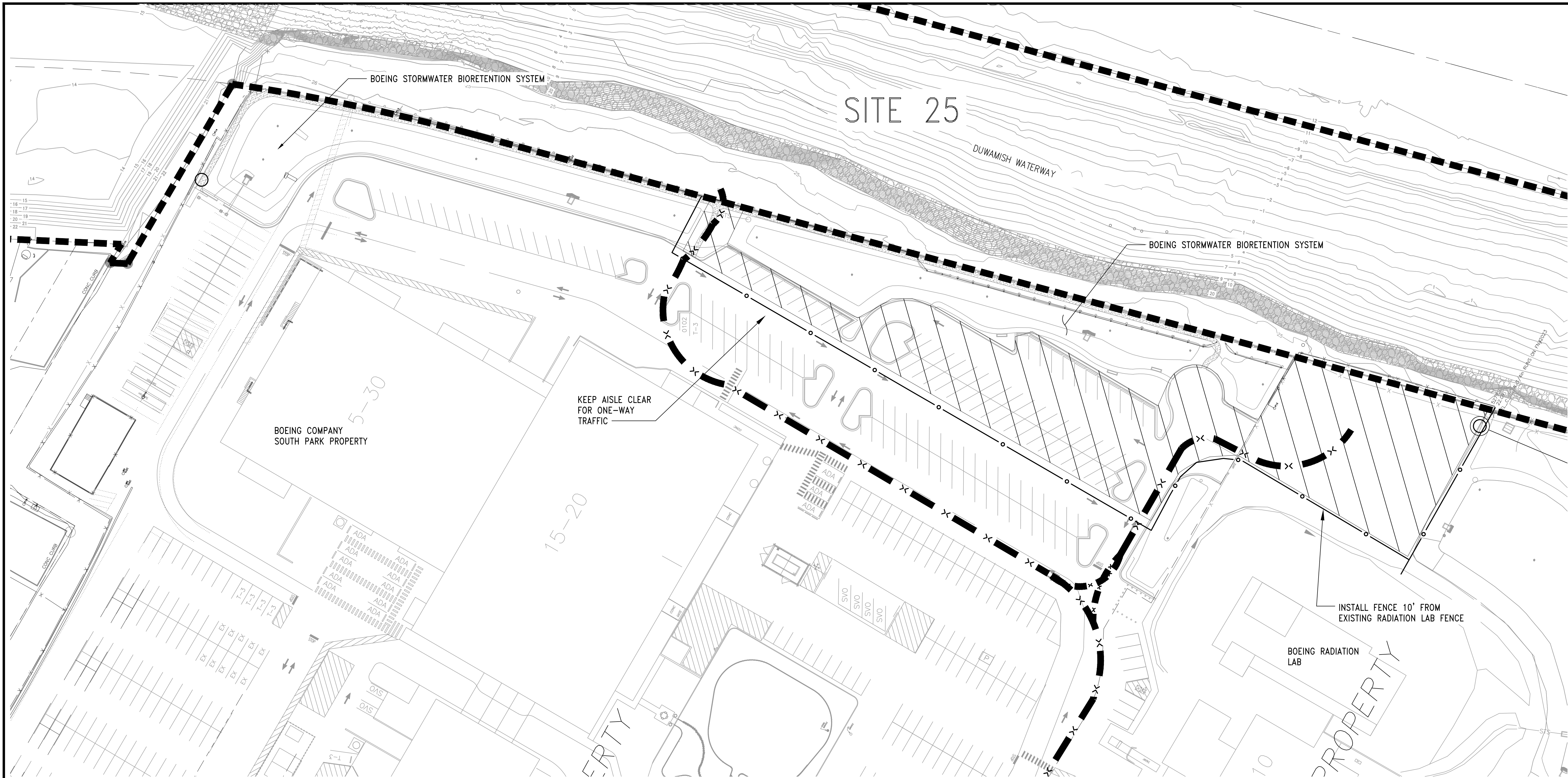
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1	5/11/17		ISSUED FOR BID						

PROJECT MANAGER: TICSÓN MACH
 PROJECT ENGINEER: JOANNA HINGLE
 DESIGN ENGINEER: ATTILA LASZLO
 DRAFTER: KEN LANE
 SCALE: 1"=100'
 DATE: 5/11/2017
 CHECKED/APPROVED BY:

Port of Seattle MARITIME DIVISION
 PROJECT: SITE 23 & 25 RESTORATION
 SHEET TITLE: PHASING & TRAFFIC PLAN

WORK PROJECT NO. 105563
 CONSULTANT'S NO.
 PORT OF SEATTLE NO. 117-1201 **C2.0**

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PLAN
CONTRACTOR ACCESS AREA
SCALE: 1"=40'



NOTES

1. THE BOEING COMPANY HAS PROVIDED THE OUTLINE AREAS SHOWN ON THE PLANS FOR THE CONTRACTOR'S USE. THE AREA SHALL BE SECURED BY TEMPORARY CHAIN LINK FENCE AND GATES TO PREVENT ACCESS FROM THE BOEING SITE. PREVENT ACCESS TO OR FROM BOEING SITE
2. ALL REQUIRED TEMPORARY EROSION AND SEDIMENT CONTROL ITEMS SHALL BE IN PLACE PRIOR TO THE USE OF THIS AREA. NO ON SITE RUNOFF SHALL ENTER ANY ENCLOSED OR OPEN DRAINAGE FACILITIES BEFORE BEING TREATED TO THE REQUIRED PERMIT REQUIREMENTS. CARE SHALL BE TAKEN NOT TO DISTURB THE EXISTING BOEING STORMWATER BIORETENTION SYSTEM ALONG THE PROPERTY LINE. IF THE SYSTEM IS DISTURBED BY THE CONTRACTORS OPERATION, CONTRACTOR SHALL REPAIR AT OWN EXPENSE.
3. THE CONTRACTOR HAS THE OPTIONS OF REMOVING THE EXISTING TRAFFIC ISLANDS INSIDE THE BOUNDARY FOR HIS CONVENIENCE. IF THE CONTRACTOR DOES REMOVE THE TRAFFIC ISLANDS, OR OTHER FACILITIES IN THE AREA, CONTRACTOR SHALL REPAIR AT OWN EXPENSE.
4. STORM WATER FROM THE PROJECT SITE SHALL NOT BE DISCHARGED TO BOEING STORMWATER FACILITIES.

LEGEND

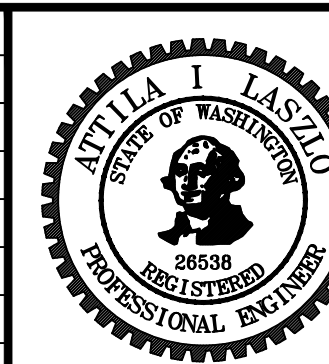
- CONTRACTOR ACCESS AREA
- HAUL ROUTE
- TEMPORARY CONSTRUCTION FENCE
- PROPERTY BOUNDARY

NOT FOR CONSTRUCTION

CALL 2 DAYS BEFORE YOU DIG
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PROJECT ENGR./ARCH:	
DESIGNER:	
DRAWN BY:	
SCALE:	
DATE:	
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REVISIONS									
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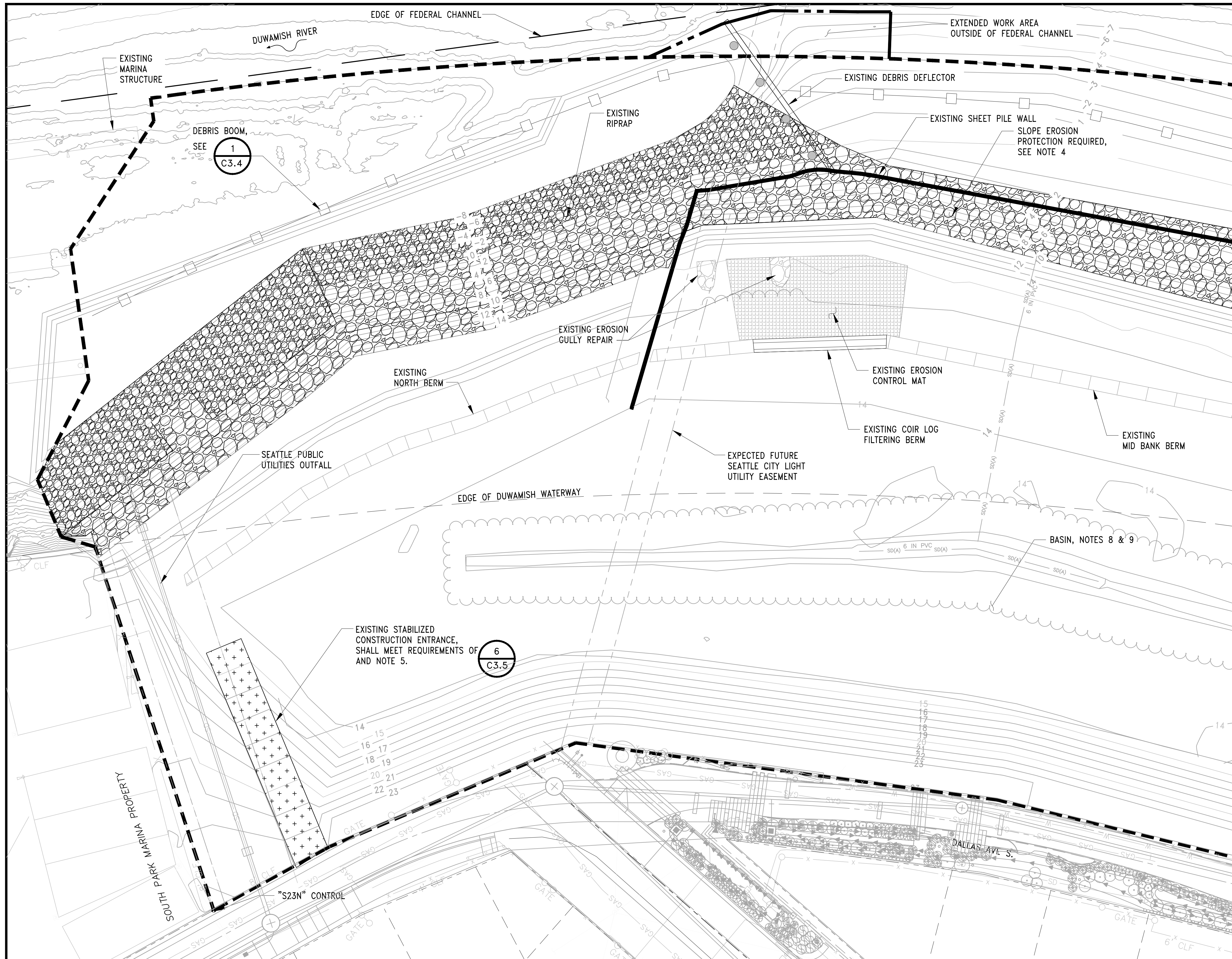


PROJECT MANAGER:
TICSON MACH
PROJECT ENGINEER:
JOANNA HINGLE
DESIGN ENGINEER:
ATTILA LASZLO
DRAFTER:
KEN LANE
SCALE:
1"=100'
DATE:
5/11/2017
CHECKED/APPROVED BY:

Port of Seattle MARITIME DIVISION
PROJECT: **SITE 23 & 25 RESTORATION**

SHEET TITLE: **CONTRACTOR ACCESS AREA DETAILS**

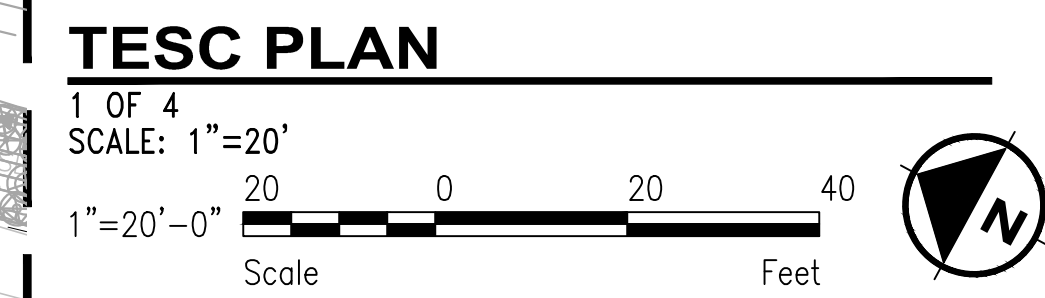
WORK PROJECT NO.
105563
CONSULTANT'S NO.
PORT OF SEATTLE NO.
117-1201 **C2.1**



- NOTES:**
- SEE SHEETS C3.4 AND C3.5 FOR TESC NOTES AND DETAILS.
 - NOT USED.
 - THE LOCATION OF THE TESC MEASURES SHOWN ARE DIAGRAMMATIC. THE CONTRACTOR SHALL DETERMINE WHERE EACH ACTIVITY WILL BE INSTALLED ON-SITE TO BEST ACCOMPLISH AND PHASE WORK. REFER TO THE APPLICABLE SITE CONSTRAINTS AND WATER QUALITY AND TREATMENT REQUIREMENTS.
 - INSTALLATION AND MAINTENANCE OF SLOPE EROSION PROTECTION BMPs SHALL BE COORDINATED WITH RIP RAP DEMOLITION ACTIVITIES. SEE SHEET C3.5 FOR SLOPE EROSION PROTECTION DETAILS.
 - LOCATION OF CONSTRUCTION ENTRANCES SHALL BE DETERMINED BY THE CONTRACTOR BASED ON APPROVED HAUL ROUTES AND ACCESS AGREEMENTS WITH THE CITY AND PRIVATE PROPERTY OWNERS.
 - WHEEL WASHES ARE REQUIRED AT ALL SITE EXITS. SEE SHEET C2.0 FOR SITE ACCESS INFORMATION.
 - RIVERBANK EXCAVATION AND BACKFILLING SHALL BE COMPLETED WHILE THE AREA IS NOT INUNDATED WITH WATER. A 2FT VERTICAL (ELEVATION), OR A 6 FT HORIZONTAL SEPARATION IS REQUIRED BETWEEN THE TIDE LEVEL AND ALL EXCAVATION AND BACKFILL ACTIVITY (OUTSIDE OF THE SHEET PILE WALL). SEE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS ASSOCIATED WITH RIVERBANK CONSTRUCTION ACTIVITIES.
 - WORK DONE BEHIND THE SHEET PILE WALL PRIOR TO SHEET PILE DEMOLITION IS EXEMPTED FROM NOTE 7. CONTRACTOR SHALL EXPECT TIDAL SEEPAGE BEHIND THE WALL AT ALL TIMES.
 - THE CONTRACTOR SHALL EXPECT THE BASIN TO BE INUNDATED AT ANY TIME, BUT PARTICULARLY DURING THE WET SEASON.

- LEGEND:**
- EXISTING STABILIZED CONSTRUCTION ENTRANCE
 - EXISTING RIP-RAP TO REMAIN SEE C4 SERIES
 - EXISTING RIPRAP TO BE DEMOLISHED, SEE C4 SERIES.
 - EXISTING SAND BAR BERM WITH POLY SHEETING
 - PROPERTY BOUNDARY AND WORK AREA BOUNDARY
 - EXISTING FENCE
 - EXISTING STORM DRAIN PIPE
 - DEBRIS BOOM

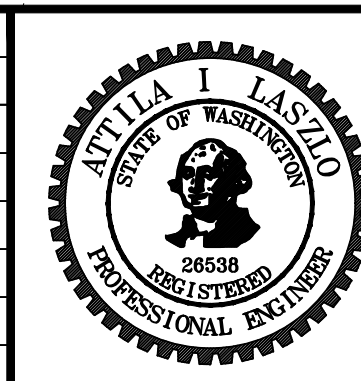
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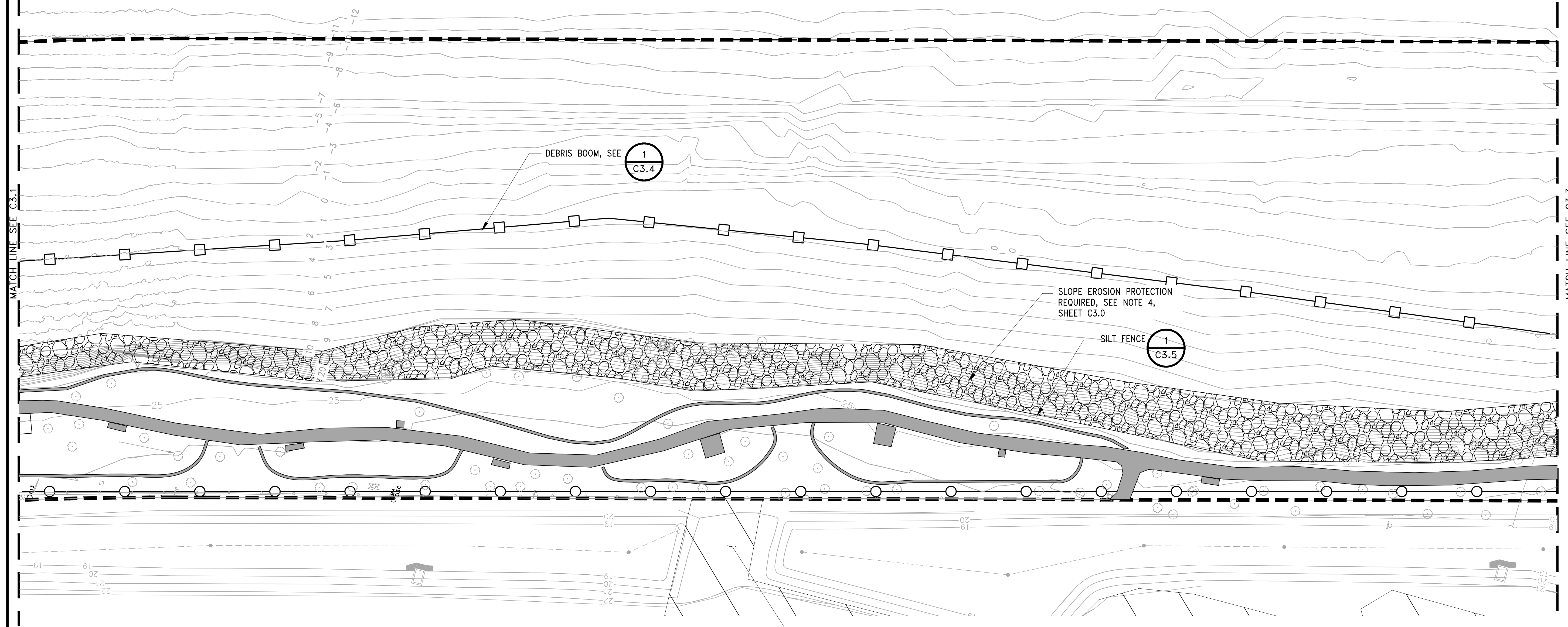


PROJECT MANAGER:
 TICSÓN MACH
 PROJECT ENGINEER:
 JOANNA HINGLE
 DESIGN ENGINEER:
 ATTILA LASZLO
 DRAFTER:
 JORGE GAVIDIA
 SCALE:
 AS SHOWN
 DATE:
 5/11/2017
 CHECKED/APPROVED BY:

Port of Seattle MARITIME DIVISION
 PROJECT: **SITE 23 & 25 RESTORATION**
 SHEET TITLE: **TESC PLAN (1 OF 4)**

WORK PROJECT NO.
 105563
 CONSULTANT'S NO.
 PORT OF SEATTLE NO.
 117-1201 **C3.0**

DUWAMISH RIVER



MATCH LINE SEE C3.1

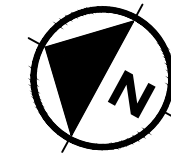
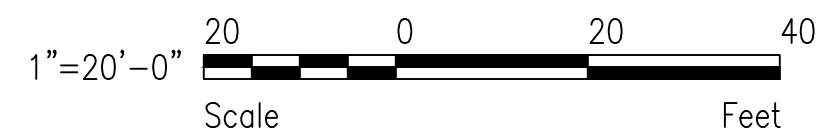
MATCH LINE SEE C3.3

NOTES:

- SEE SHEET C3.0 FOR TESC SHEET NOTES.

TESC PLAN

SHEET 3 OF 4
SCALE: 1"=20'



ALLOWED CONSTRUCTION ACCESS AREA. CONTRACTOR TO RESTORE TO ORIGINAL CONDITION. SEE BOEING STORMWATER REFERENCE PLANS FOR ADDITIONAL INFORMATION.

LEGEND:

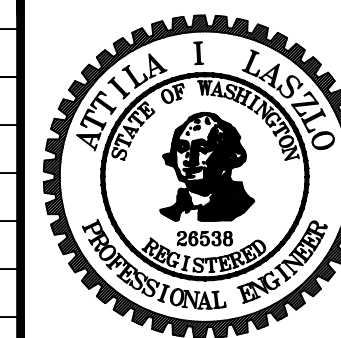
- CONTRACTOR ACCESS AREA
- SIDEWALK, CURB, TABLES, BENCHES, SIGNS, AND OTHER INFRASTRUCTURE
- EXISTING RIPRAP AND/OR RUBBLE
- PROPERTY BOUNDARY AND WORK AREA BOUNDARY
- DEBRIS BOOM
- SILT FENCE

NOT FOR CONSTRUCTION

CALL 2 DAYS BEFORE YOU DIG
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PROJECT ENGR./ARCH:	
DESIGNER:	
DRAWN BY:	
SCALE:	
DATE:	
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REVISIONS							
NO.	DATE	BY	DESCRIPTION	APP'D	NO.	DATE	BY
5/11/17			ISSUED FOR BID				



PROJECT MANAGER:
TICSON MACH
PROJECT ENGINEER:
JOANNA HINGLE
DESIGN ENGINEER:
ATTILA LASZLO
DRAFTER:
KEN LANE
SCALE:
AS SHOWN
DATE:
5/11/2017
CHECKED/APPROVED BY:

Port of Seattle

MARITIME DIVISION

PROJECT: **SITE 23 & 25 RESTORATION**

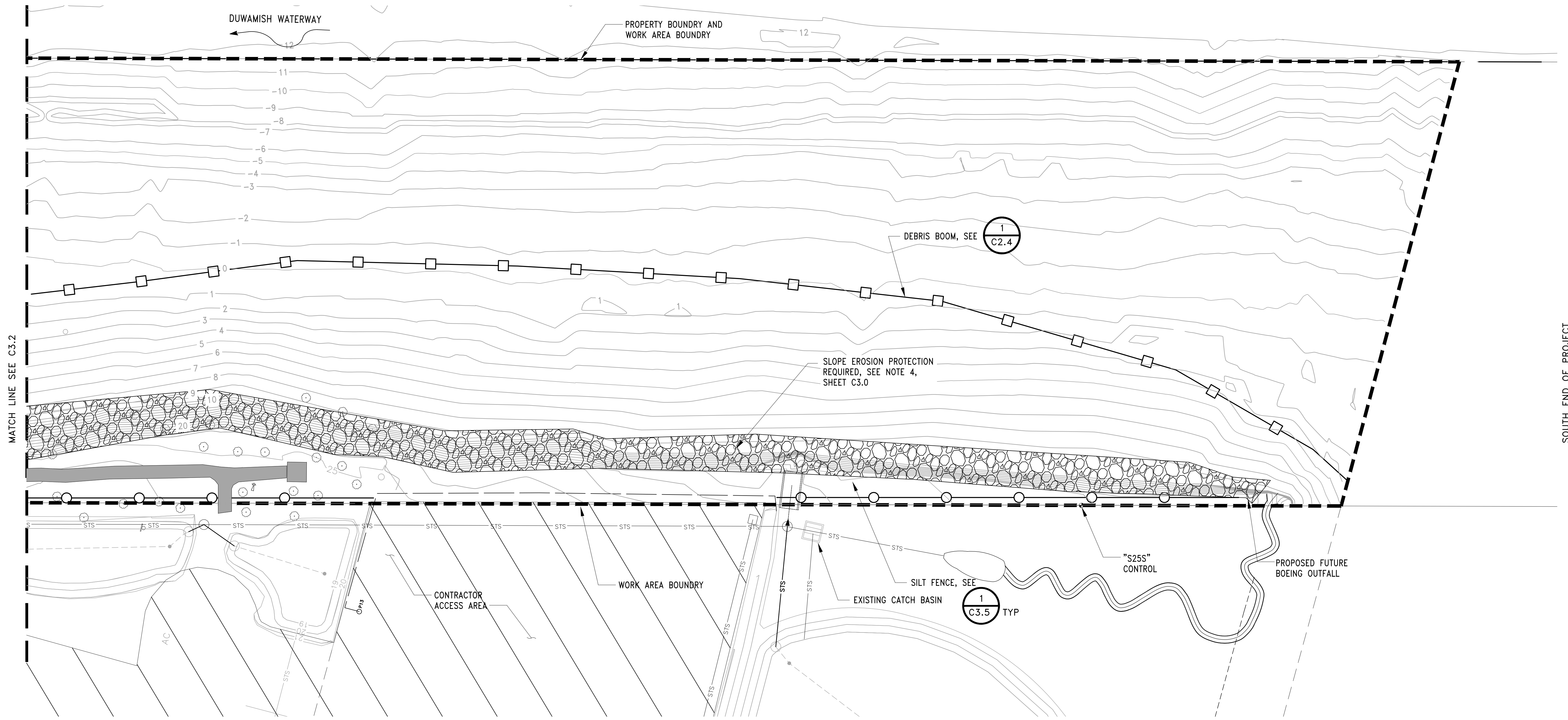
SHEET TITLE: **TESC PLAN (3 OF 4)**

WORK PROJECT NO.
105563

CONSULTANT'S NO.

PORT OF SEATTLE NO.
117-1201 **C3.2**

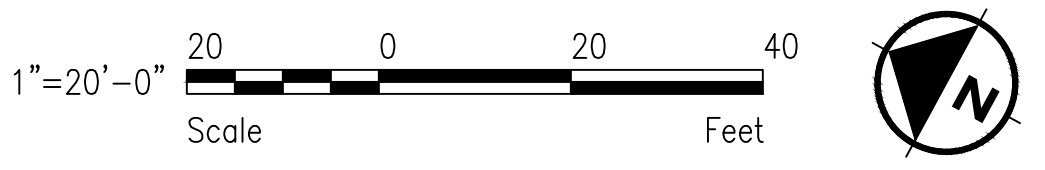
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NOTES:
1. SEE SHEET C3.0 FOR TESC SHEET NOTES.

- LEGEND:**
- SIDEWALK, CURB, TABLES, BENCHES, SIGNS, AND OTHER INFRASTRUCTURE
 - PROPERTY BOUNDARY AND WORK AREA BOUNDARY
 - EXISTING FENCE
 - DEBRIS BOOM
 - SILT FENCE
 - EXISTING RIPRAP AND/OR RUBBLE
 - CONTRACTOR ACCESS AREA

TESC PLAN
SHEET 4 OF 4
SCALE: 1"=20'

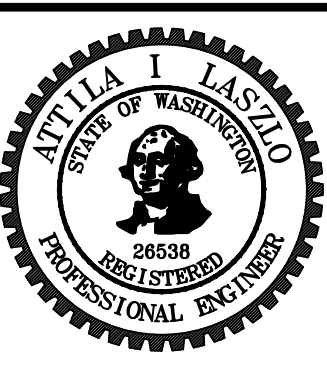


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PROJECT MANAGER:
TICSON MACH
PROJECT ENGINEER:
JOANNA HINGLE
DESIGN ENGINEER:
ATTILA LASZLO
DRAFTER:
KEN LANE
SCALE:
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Port of Seattle MARITIME DIVISION
PROJECT: **SITE 23 & 25 RESTORATION**
SHEET TITLE: **TESC PLAN (4 OF 4)**

WORK PROJECT NO. **105563**
CONSULTANT'S NO.
PORT OF SEATTLE NO. **117-1201 C3.3**

GENERAL TESC NOTES

TEMPORARY AND PERMANENT CONSTRUCTION CONTROLS SHALL BE USED TO ACCOMPLISH THE FOLLOWING MINIMUM REQUIREMENTS. ADDITIONAL CONTROLS MAY BE REQUIRED WHEN MINIMUM CONTROLS ARE NOT SUFFICIENT TO PREVENT EROSION OR TRANSPORT OF SEDIMENT OR OTHER POLLUTANTS FROM THE SITE. CONTRACTOR SHALL SUBMIT TEMPORARY EROSION CONTROL PLANS IN THE RAWP. IT SHOULD BE UNDERSTOOD BY THE CONTRACTOR THAT THIS SITE IS IN A MIXED RESIDENTIAL/COMMERCIAL/INDUSTRIAL NEIGHBORHOOD AND ON A SUPERFUND WATERWAY. MAINTAINING CONTROL OF ON-SITE SOIL AND AVOIDING TRACKING TO SURROUNDING PROPERTIES IS OF UTMOST IMPORTANCE.

GENERAL

1. THE IMPLEMENTATION OF THE TESC PLANS AND THE INSTALLATION, MAINTENANCE, REPLACEMENT AND UPGRADING OF THE TESC FACILITIES IS THE RESPONSIBILITY OF THE CONTRACTOR UNTIL ALL CONSTRUCTION IS APPROVED.
2. PROJECT SHALL BE PHASED AS APPROPRIATE IN ORDER TO MINIMIZE THE AMOUNT OF LAND DISTURBING ACTIVITY OCCURRING AT THE SAME TIME AND SHALL TAKE INTO ACCOUNT SEASONAL WORK LIMITATIONS.
3. THE CONTRACTOR SHALL PROVIDE AND MAINTAIN TEMPORARY SEDIMENTATION COLLECTION FACILITIES TO ENSURE THAT SEDIMENT- LADEN WATER DOES NOT ENTER THE NATURAL OR PUBLIC DRAINAGE SYSTEM. ALL SEDIMENT-LADEN WATER REQUIRES TREATMENT ON SITE. AS CONSTRUCTION PROGRESSES AND UNEXPECTED (SEASONAL) CONDITIONS DICTATE, MORE SILTATION WATER QUALITY FACILITIES MAY BE REQUIRED TO ENSURE COMPLETE SILTATION CONTROL OF THE PROJECT. THEREFORE, DURING THE COURSE OF CONSTRUCTION IT SHALL BE THE OBLIGATION AND RESPONSIBILITY OF THE CONTRACTOR TO ADDRESS ANY NEW CONDITIONS AT NO ADDITIONAL COST TO THE CONTRACT THAT MAY BE CREATED BY THEIR ACTIVITIES AND TO PROVIDE ADDITIONAL FACILITIES AND BMP'S THAT MAY BE NEEDED TO PROTECT ADJACENT PROPERTIES.
4. TESC WILL BE REQUIRED AROUND ALL STAGING AREAS.

SITE BOUNDARIES AND SURROUNDING PROPERTIES

5. PREVENT SOIL FROM ENTERING ALL STORM DRAINS, INCLUDING DITCHES, THAT RECEIVE DRAINAGE WATER FROM THE PROJECT. STORM DRAIN INLET PROTECTION DEVICES SHALL BE CLEANED OR REMOVED AND REPLACED AS RECOMMENDED BY THE PRODUCT MANUFACTURER, OR MORE FREQUENTLY IF REQUIRED TO PREVENT FAILURE OF THE DEVICE OR FLOODING. STORM DRAIN INLETS MADE OPERABLE DURING CONSTRUCTION SHALL BE PROTECTED SO THAT DRAINAGE WATER DOES NOT ENTER THE DRAINAGE SYSTEM WITHOUT FIRST BEING FILTERED OR TREATED TO REMOVE SEDIMENTS. STORM DRAIN INLET PROTECTION DEVICES SHALL BE REMOVED AT THE CONCLUSION OF THE PROJECT.
6. SITE SOIL SHALL NOT BE TRACKED OFF THE SITE BY ANY CONSTRUCTION TRAFFIC. CONTRACTOR SHALL MAINTAIN AN INSPECTION ACTIVITY TO QUICKLY IDENTIFY ANY POTENTIAL MATERIAL TRACKED OFF THE SITE. IN THE EVENT THAT SITE SOIL IS TRACKED ONTO SURROUNDING ROADWAYS, THEY SHALL BE CLEANED THOROUGHLY IMMEDIATELY UPON DISCOVERY INCLUDING BUT NOT LIMITED TO ADJACENT DITCHES/DRAINAGES THAT MAY HAVE BECOME CONTAMINATED BY THE ACTIVITY. THIS WORK SHALL BE COMPLETED TO THE SATISFACTION OF THE ENGINEER AND AT NO ADDITIONAL COST TO THE CONTRACT (CONTRACTOR WILL BE RESPONSIBLE FOR ANY FINES IMPOSED AS A RESULT OF SOIL TRACKED OFF SITE). CONTRACTOR SHALL REMOVE ANY SPILLED SOIL FROM THE ROAD BY A METHOD TO BE APPROVED BY ENGINEER. COLLECTED SOILS SHALL BE PLACED IN THE SOIL STOCKPILING & STAGING AREA FOR DISPOSAL. STREET WASHING SHALL BE ALLOWED ONLY AFTER SOIL IS REMOVED AS REQUIRED BY THE ENGINEER.

ACCESS TO THE CONSTRUCTION SITE

7. LIMIT CONSTRUCTION VEHICLE ACCESS TO THE PRIMARY HAUL ROUTE. STABILIZE ACCESS POINTS AND PREVENT TRACKING SEDIMENT ONTO PUBLIC ROADS BY INSTALLING WHEEL WASH AREAS.

ON THE SITE

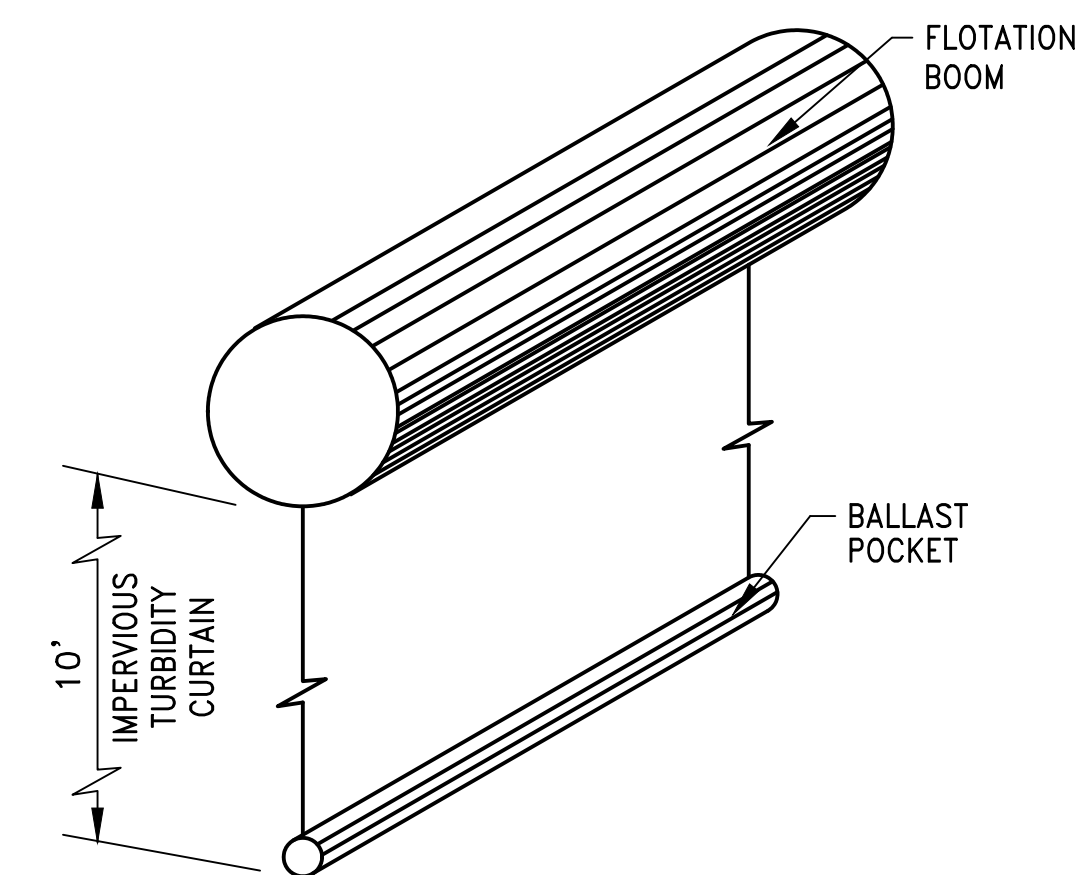
8. WATER THAT IS COLLECTED FROM SITE DEWATERING OPERATIONS OR COLLECTED SURFACE WATER THAT HAS COME IN CONTACT WITH ANY CONTAMINATED SURFACE SHALL BE TREATED PRIOR TO DISCHARGE. WATER TREATMENT DISCHARGE AND TESTING REQUIREMENTS ARE LISTED IN THE PROJECT SPECIFICATIONS.
9. EROSION FROM SLOPES SHALL BE MINIMIZED. CUT AND FILL SLOPES SHALL BE DESIGNED BY THE CONTRACTOR AND CONSTRUCTED IN A MANNER THAT WILL MINIMIZE EROSION. STORMWATER RUN-ON SHALL BE DIVERTED AWAY FROM SLOPES AND UNDISTURBED AREAS.
10. PREVENT EROSION FROM THE RIVER BANK REMOVAL AREA DURING AND AFTER RIVER BANK SOIL REMOVAL. INSTALL EROSION PROTECTION ON THE NEWLY EXPOSED RIVER BANK SLOPES AS NEEDED TO PREVENT EROSION OF SOIL INTO THE RIVER DURING THE LOW TIDE REMOVAL EFFORTS. PROTECTION SHALL OCCUR AFTER EXCAVATION AND

PRIOR TO TIDAL INUNDATION OF THE AREA. DEPENDING ON THE CONTRACTORS PROGRESS FOR RIVER BANK REMOVAL, TEMPORARY RIVER BANK PROTECTION MAY BE REQUIRED TO BE INSTALLED AND REMOVED SEVERAL TIMES SO THAT THE NEWLY EXPOSED SLOPES ARE COVERED DURING ANY TIDAL INUNDATION OF THE AREA. THIS ACTIVITY SHALL BE DETAILED IN THE RAWP.

11. PREVENT ON-SITE EROSION BY STABILIZING ALL EXPOSED AND UNWORKED SOILS, INCLUDING STOCKPILES. STOCKPILES SHALL BE COVERED IF RAIN EVENTS ARE POSSIBLE, DURING PRECIPITATION EVENTS, AND DURING NON-WORKING HOURS. SOIL STOCKPILES SHALL BE STABILIZED FROM EROSION, PROTECTED WITH SEDIMENT TRAPPING MEASURED, AND BE LOCATED AWAY FROM STORM DRAIN INLETS, WATERWAYS, AND DRAINAGE CHANNELS. NON-STOCKPILED SOILS, SHALL BE COVERED FROM OCTOBER 1 TO APRIL 30. NO SOILS SHALL REMAIN EXPOSED AND UNWORKED FOR MORE THAN TWO DAYS. FOR NON-STOCKPILED SOILS, FROM MAY 1 TO SEPTEMBER 30, NO SOILS SHALL REMAIN EXPOSED FOR MORE THAN SEVEN DAYS. SOILS SHALL BE STABILIZED AT THE END OF THE SHIFT. BEFORE THE COMPLETION OF THE PROJECT, PERMANENTLY STABILIZE ALL EXPOSED SOILS THAT HAVE BEEN DISTURBED DURING CONSTRUCTION.

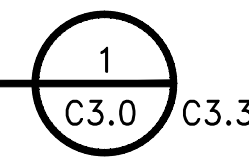
MAINTAIN, INSPECT, MODIFY AS NEEDED

12. ALL TEMPORARY AND PERMANENT EROSION AND SEDIMENT CONTROL BMPS SHALL BE INSPECTED, MAINTAINED AND REPAIRED AS NEEDED TO ASSURE CONTINUED PERFORMANCE OF THEIR INTENDED FUNCTION. ALL TEMPORARY EROSION AND SEDIMENT CONTROLS SHALL BE REMOVED WITHIN FIVE (5) DAYS AFTER FINAL SITE STABILIZATION IS ACHIEVED OR AFTER THE TEMPORARY CONTROLS ARE NO LONGER NEEDED, WHICHEVER IS LATER. TRAPPED SEDIMENT SHALL BE REMOVED AND DISPOSED OF. DISTURBED SOIL AREAS RESULTING FROM REMOVAL SHALL BE PERMANENTLY STABILIZED. SITE INSPECTIONS SHALL BE CONDUCTED BY AN ENVIRONMENTAL COMPLIANCE MANAGER WHO SHALL BE PRESENT ON-SITE OR ON-CALL AT ALL TIMES.
13. SITE SOIL SHALL NOT BE TRACKED OFF THE SITE BY ANY CONSTRUCTION TRAFFIC. SEE NOTE 10 FOR FURTHER CLARIFICATION. FOR CATCH BASINS OUTSIDE OF THE REMOVAL AREA, AT NO TIME SHALL MORE THAN FOUR INCHES OF SEDIMENT BE ALLOWED TO ACCUMULATE WITHIN A CATCH BASIN. SITE CATCH BASINS AND CONVEYANCE LINES SHALL BE CLEANED ON A REGULAR BASIS. THE CLEANING OPERATION SHALL NOT FLUSH SEDIMENT LADEN WATER INTO THE DOWNSTREAM SYSTEM.
14. THE TESC FACILITIES SHALL BE MAINTAINED, INSPECTED, AND DOCUMENTED PER THE SPECIFICATIONS.



DETAIL

TURBIDITY CONTAINMENT AND DEBRIS BOOM
NOT TO SCALE

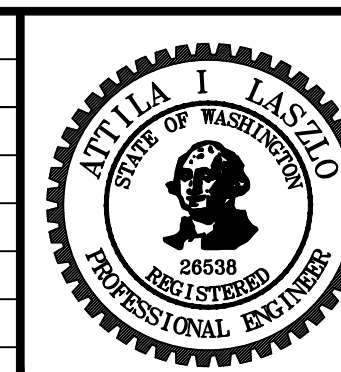


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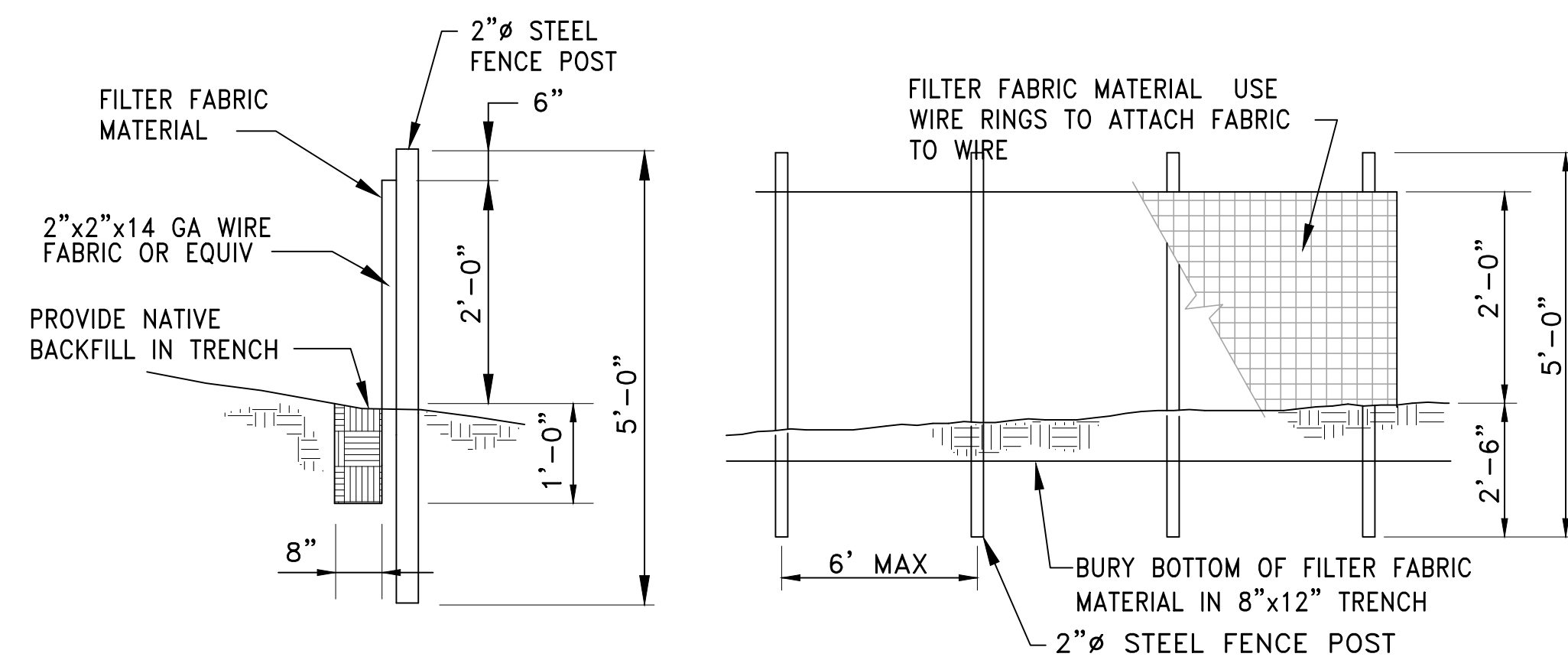
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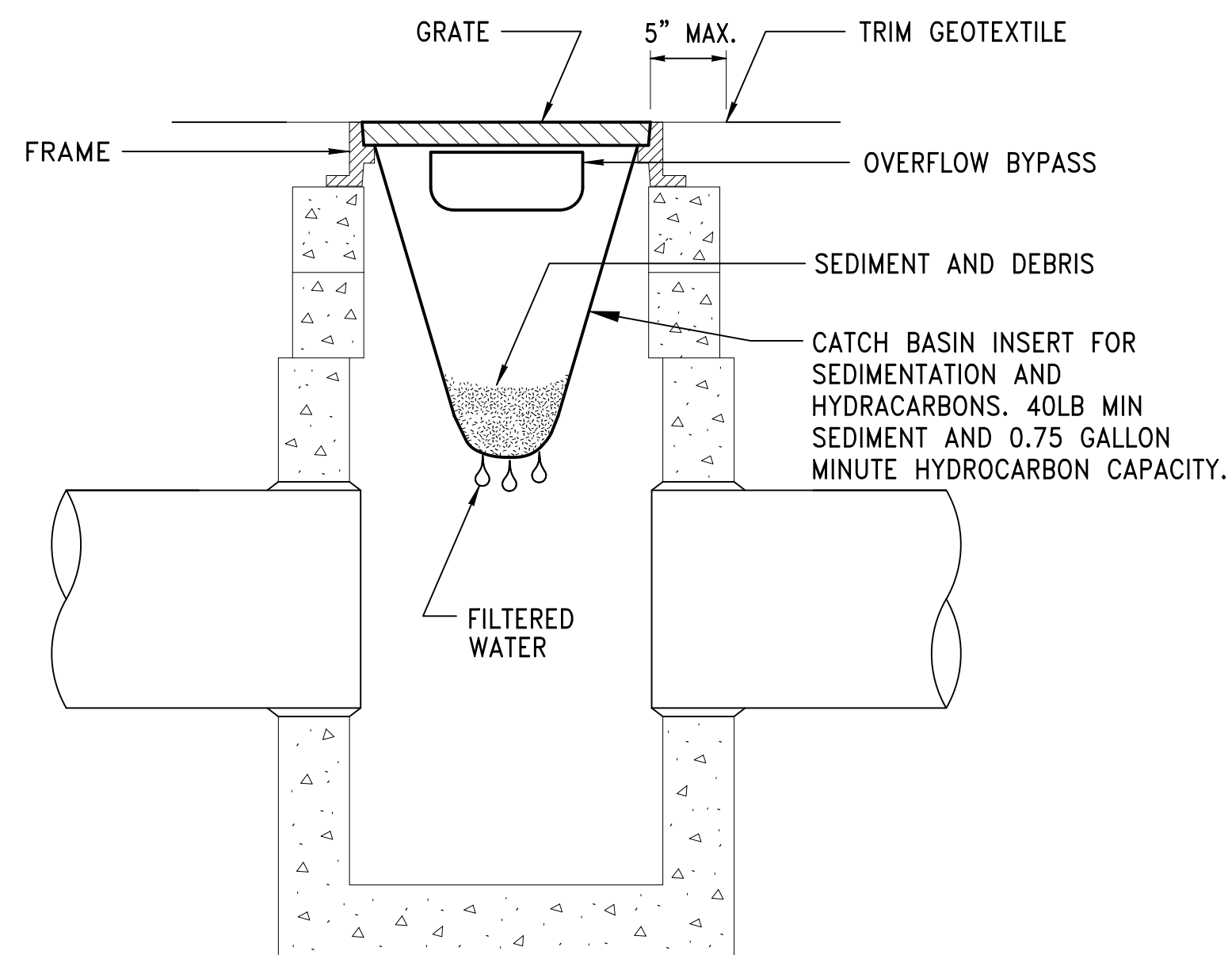
PROJECT MANAGER: TICSON MACH
PROJECT ENGINEER: JOANNA HINGLE
DESIGN ENGINEER: ATTILA LASZLO
DRAWER: KEN LANE
SCALE: AS SHOWN
DATE: 5/11/2017
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Port of Seattle MARITIME DIVISION
PROJECT: **SITE 23 & 25 RESTORATION**
SHEET TITLE: **TESC NOTES AND DETAILS**

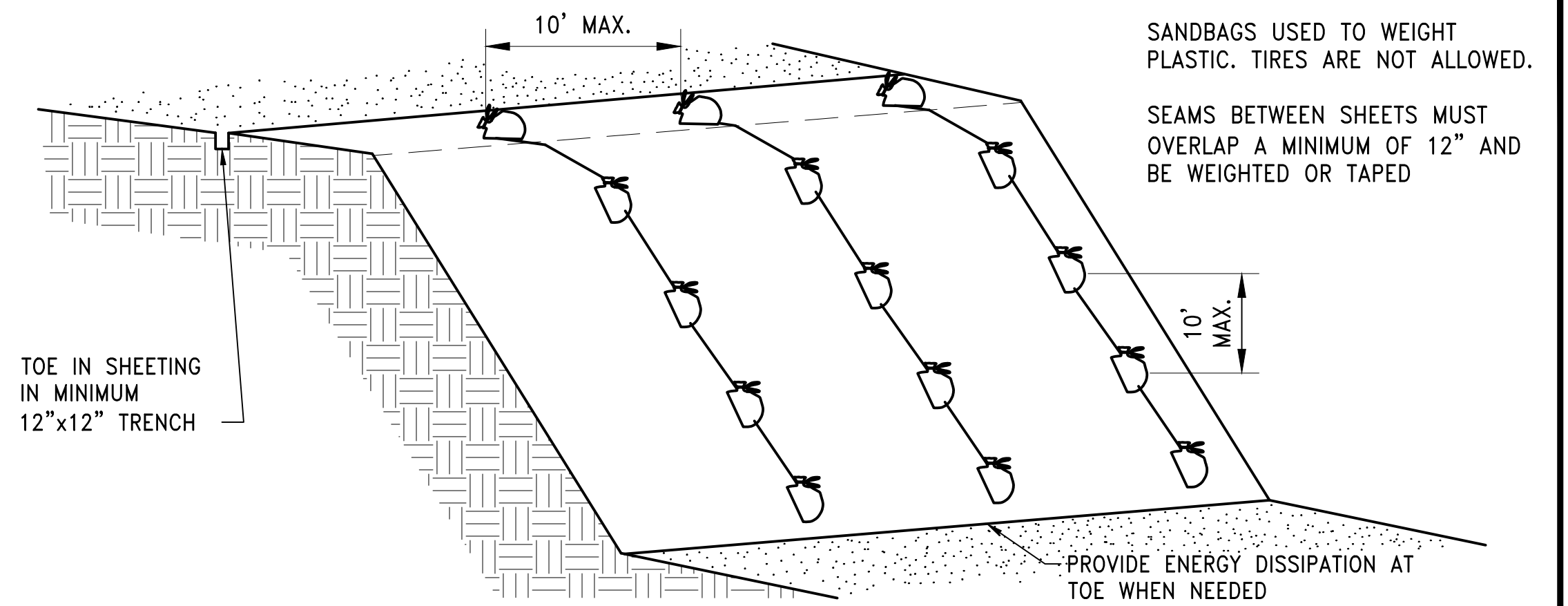
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CONSULTANT'S NO.
PORT OF SEATTLE NO. 117-1201 C3.4



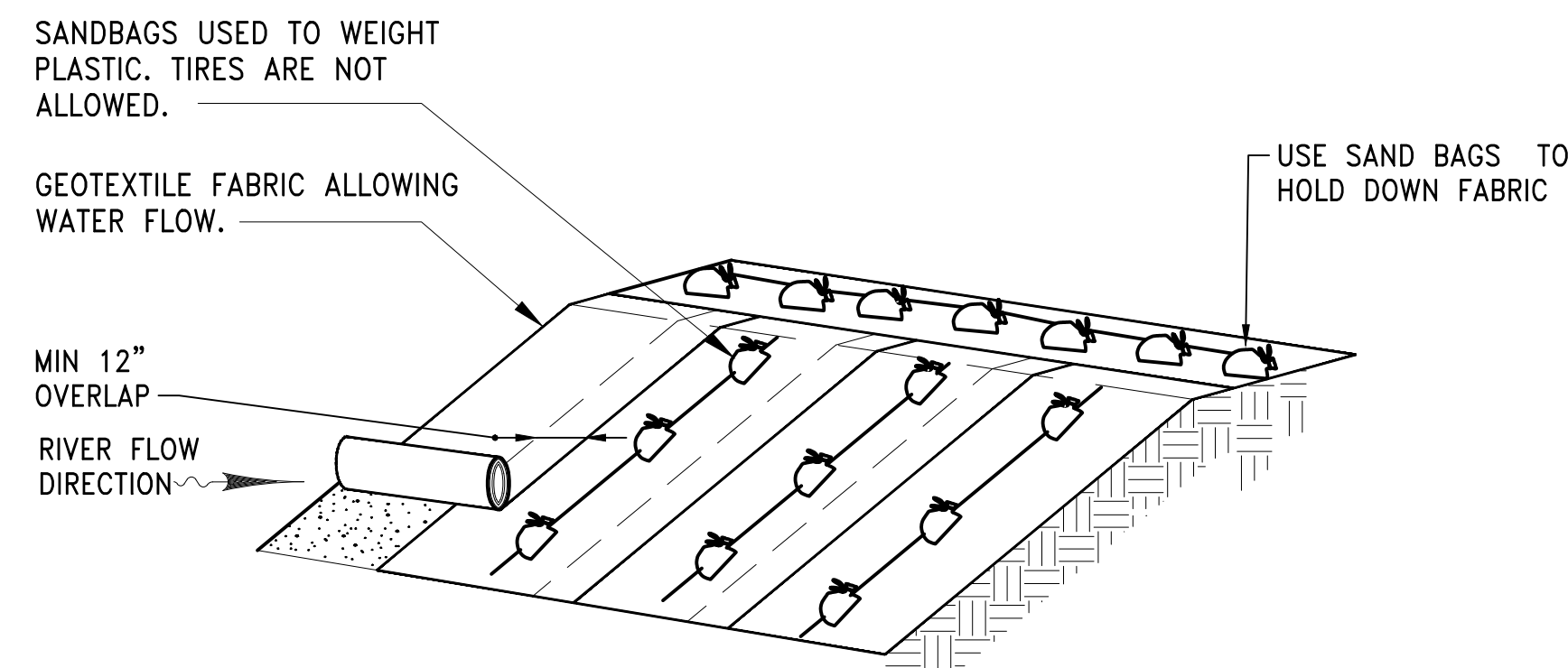
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SCALE: NTS
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C3.0 THRU C3.3



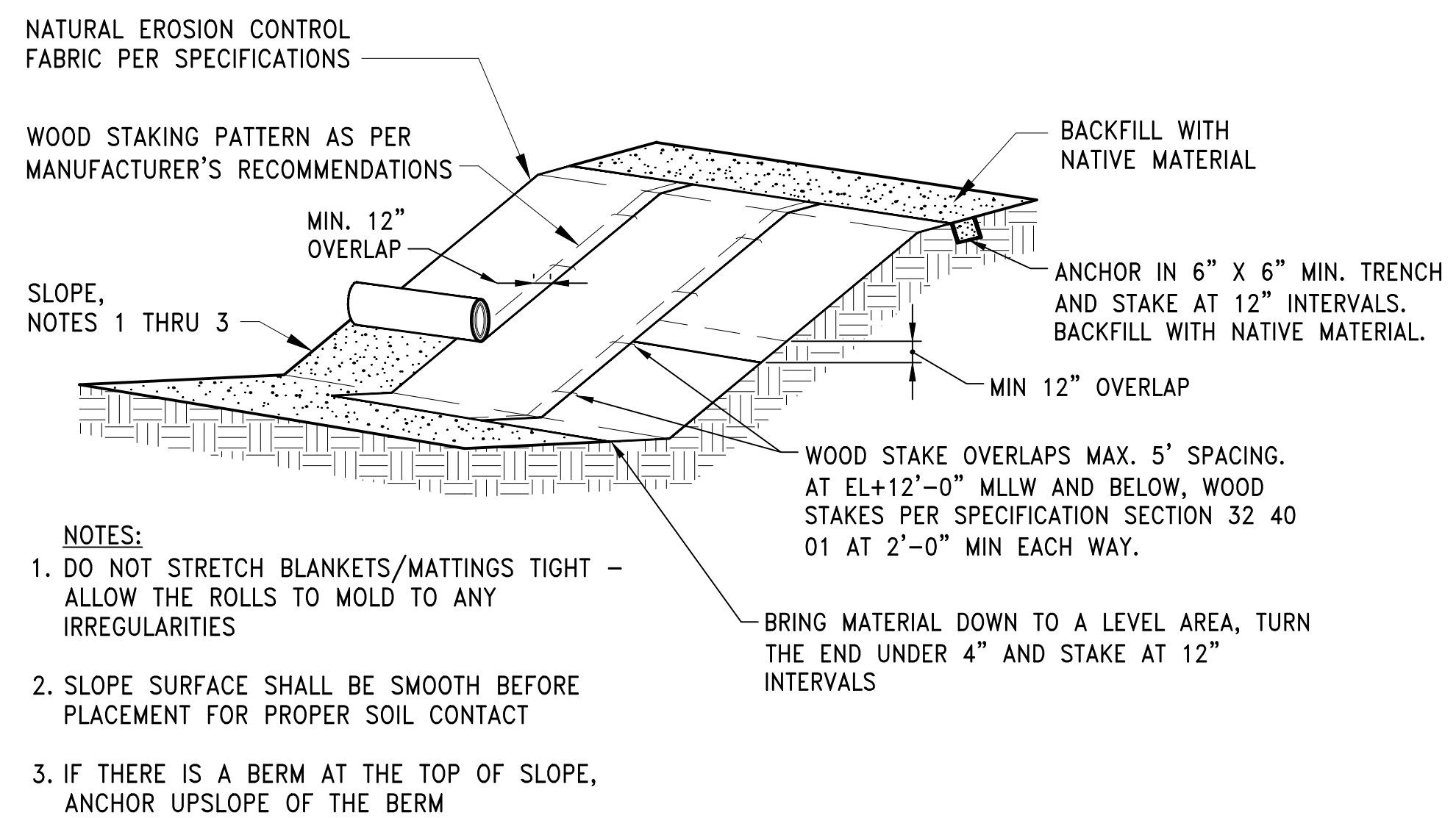
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INLET STRUCTURE FILTER
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C3.0 THRU C3.1



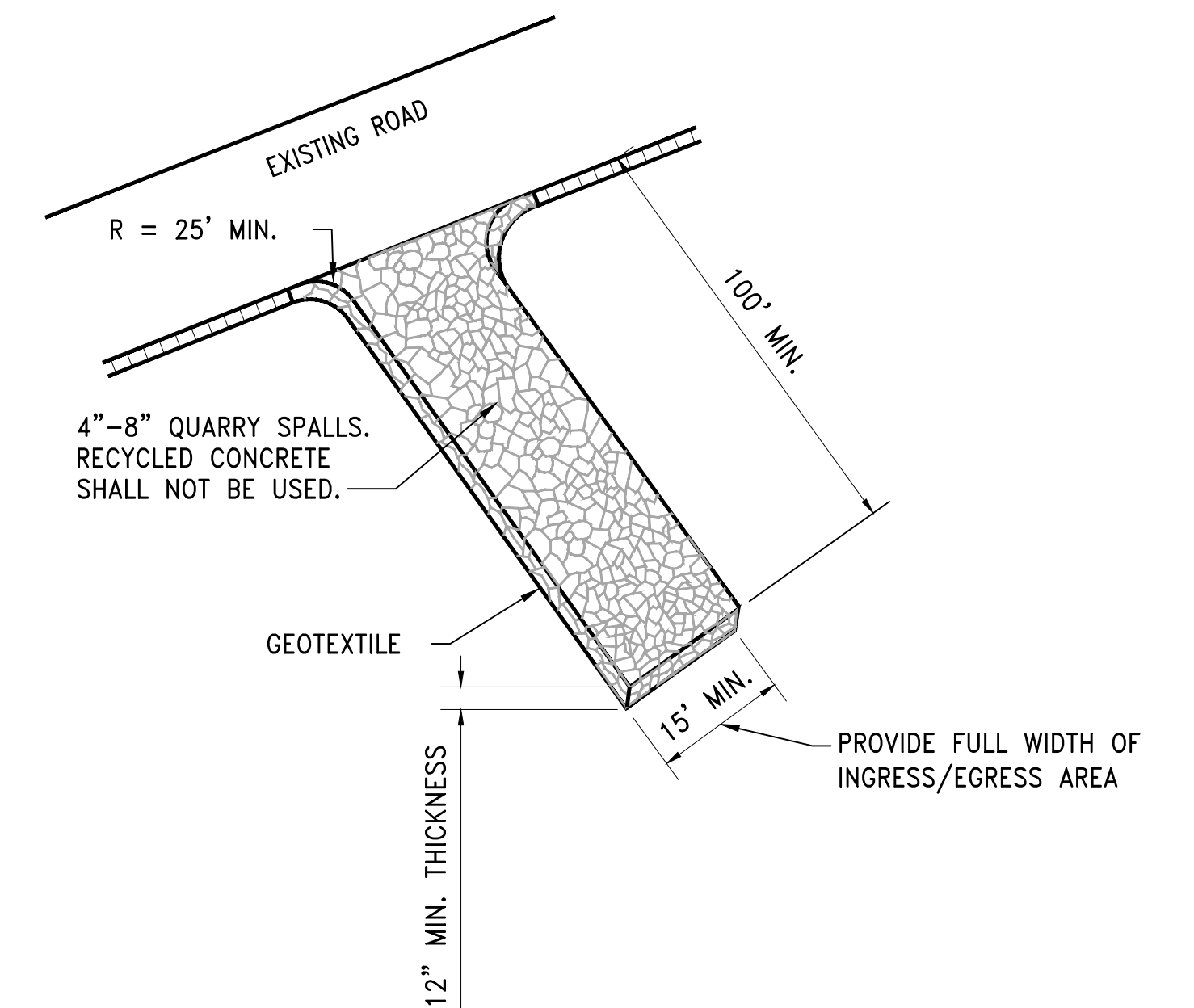
DETAIL
STOCKPILE SLOPE PROTECTION PLASTIC COVERING
SCALE: NTS
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C3.0 THRU C3.3



DETAIL
TEMPORARY RIVERBANK EROSION PROTECTION
SCALE: NTS
4
C3.0 THRU C3.3



DETAIL
PERMANENT SLOPE PROTECTION AND
SLOPE INSTALLATION
SCALE: NTS
5
C3.0 THRU C3.3



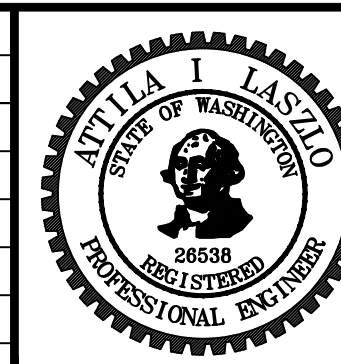
DETAIL
STABILIZED CONSTRUCTION ENTRANCE
SCALE: NTS
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C3.0

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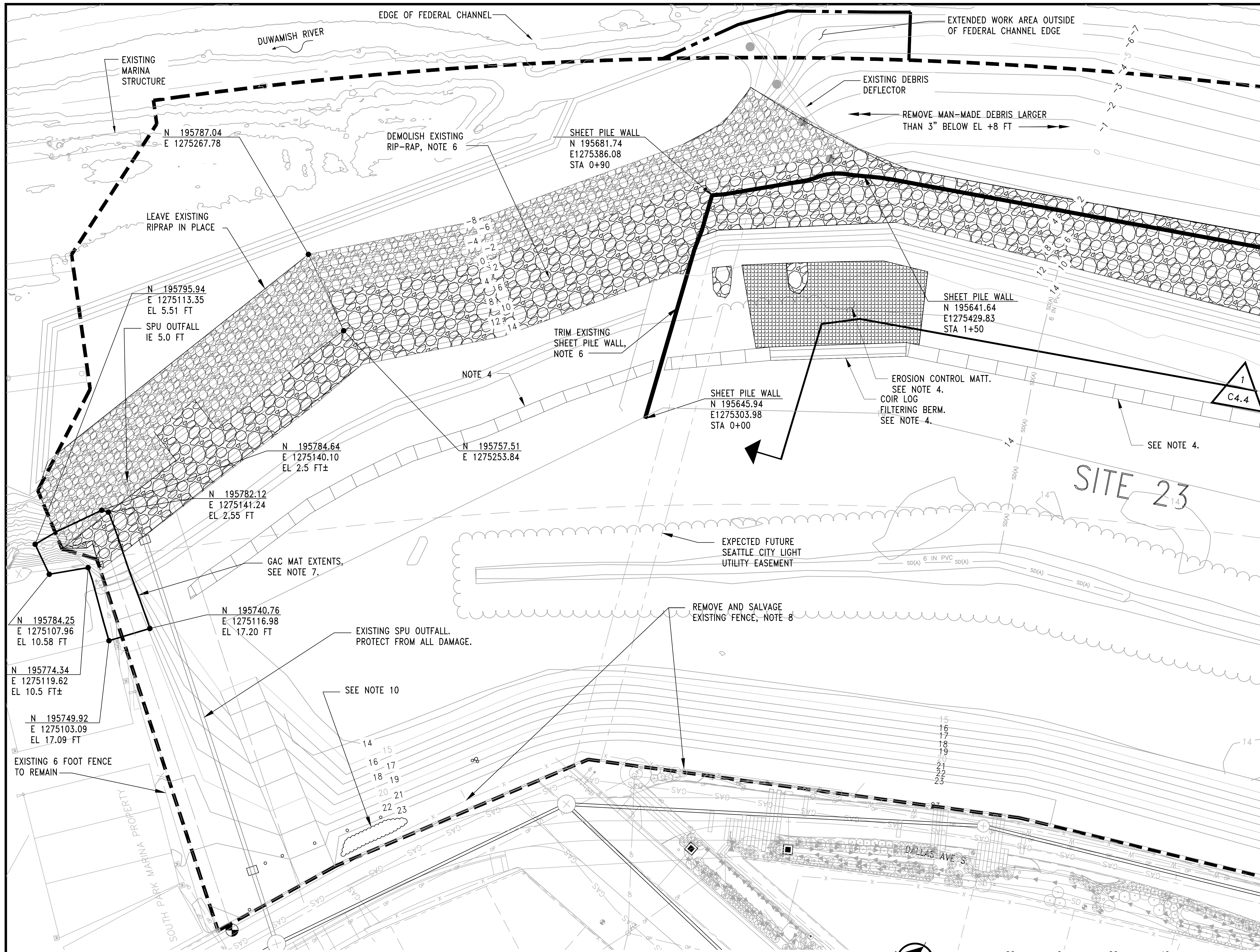
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DRAFTER:
JORGE GAVIDIA
SCALE:
AS SHOWN
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Port of Seattle MARITIME DIVISION
PROJECT: SITE 23 & 25 RESTORATION
SHEET TITLE: TESC DETAILS

WORK PROJECT NO.
105563
CONSULTANT'S NO.
PORT OF SEATTLE NO.
117-1201 **C3.5**

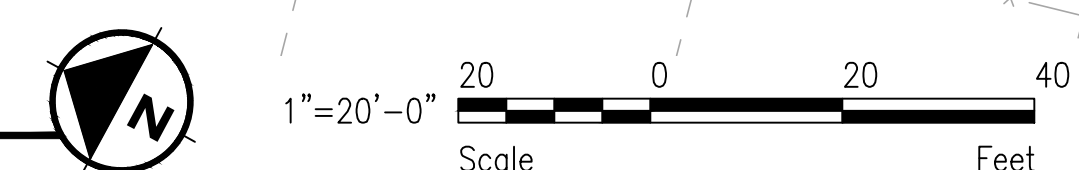


- NOTES:**
- EXISTING CONDITIONS SHOWN ARE THE EXPECTED COMPLETED STATE OF THE T117 CLEAN-UP PROJECT. CONTRACTOR SHALL VERIFY ALL CONDITIONS, AS THE T117 CLEAN-UP AS-BUILTS MAY VARY FROM PLAN.
 - NOT USED.
 - ALL EXCAVATION SHALL BE SUCH THAT THE FINAL GRADES ON THE GRADING PLAN ARE ACCOMPLISHED USING THE DETAILS SPECIFIED IN THESE DRAWINGS. ALL SOIL IS EXPECTED TO BE NON-CONTAMINATED. SEE SPECIFICATIONS FOR PROCEDURES IN THE EVENT CONTAMINATION IS FOUND. SEE C4.5 FOR KNOWN NATIVE MATERIAL INFORMATION AT SITE 23.
 - DEMOLISH EXISTING EROSION CONTROL SAND BAG BERMS, MATS, AND COIR LOGS PRIOR TO FINAL GRADING.
 - REMOVE ALL REMAINING STORM DRAIN INFRASTRUCTURE, EXCEPT THAT NEWLY INSTALLED BY SPU, TO A MINIMUM OF 2'-0" BEYOND FINAL GRADE.
 - DEMOLITION ACTIVITIES WITHIN THE DUWAMISH RIVER WATERWAY OUTSIDE OF THE IN-WATER WORK WINDOW SHALL ONLY BE PERFORMED WHILE THE AREA IS NOT INUNDATED WITH WATER. A 2 FOOT VERTICAL (ELEVATION), OR A 6 FOOT HORIZONTAL SEPARATION IS REQUIRED BETWEEN THE TIDE LEVEL AND ALL DEMOLITION WORK WITHIN THE WATERWAY. SEE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS ASSOCIATED WITH RIVERBANK CONSTRUCTION ACTIVITIES.
 - GAC MAT IS A GRANULAR ACTIVATED CARBON MAT, INSTALLED AND REQUIRED BY THE CLEAN-UP PROJECT. THIS MAT SHALL NOT BE EXPOSED, ALTERED, OR DAMAGED IN ANY WAY. ANY REPAIRS WILL BE THE CONTRACTOR'S RESPONSIBILITY AND WILL BE REQUIRED IMMEDIATELY.
 - SALVAGE EXISTING CHAIN LINK GATES AND FENCE ALONG DALLAS AVENUE. SEE SPECIFICATION SECTION 02 41 19 REMOVAL AND ALTERATIONS.
 - TREE SIZES AS NOTED WERE RECORDED IN 2012. EXPECT GROWTH AND VARIATION IN EXACT DISTRIBUTION.
 - DEMOLISH SAND BAGS.

- LEGEND:**
- LEAVE EXISTING RIP-RAP IN PLACE
 - DEMOLISH EXISTING RIP-RAP
 - PROPERTY BOUNDARY AND WORK AREA BOUNDARY
 - EXISTING SAND BAG BERM
 - EXISTING FENCE
 - EXISTING STORM DRAIN

NOT FOR CONSTRUCTION

EXISTING CONDITIONS AND DEMOLITION PLAN
SCALE: 1"=20'



CALL 2 DAYS BEFORE YOU DIG
1-800-424-5555

PROJECT ENGR./ARCH:
DESIGNER:
DRAWN BY:
SCALE:
DATE:
CHECKED BY:
CHECKED/APPROVED BY:

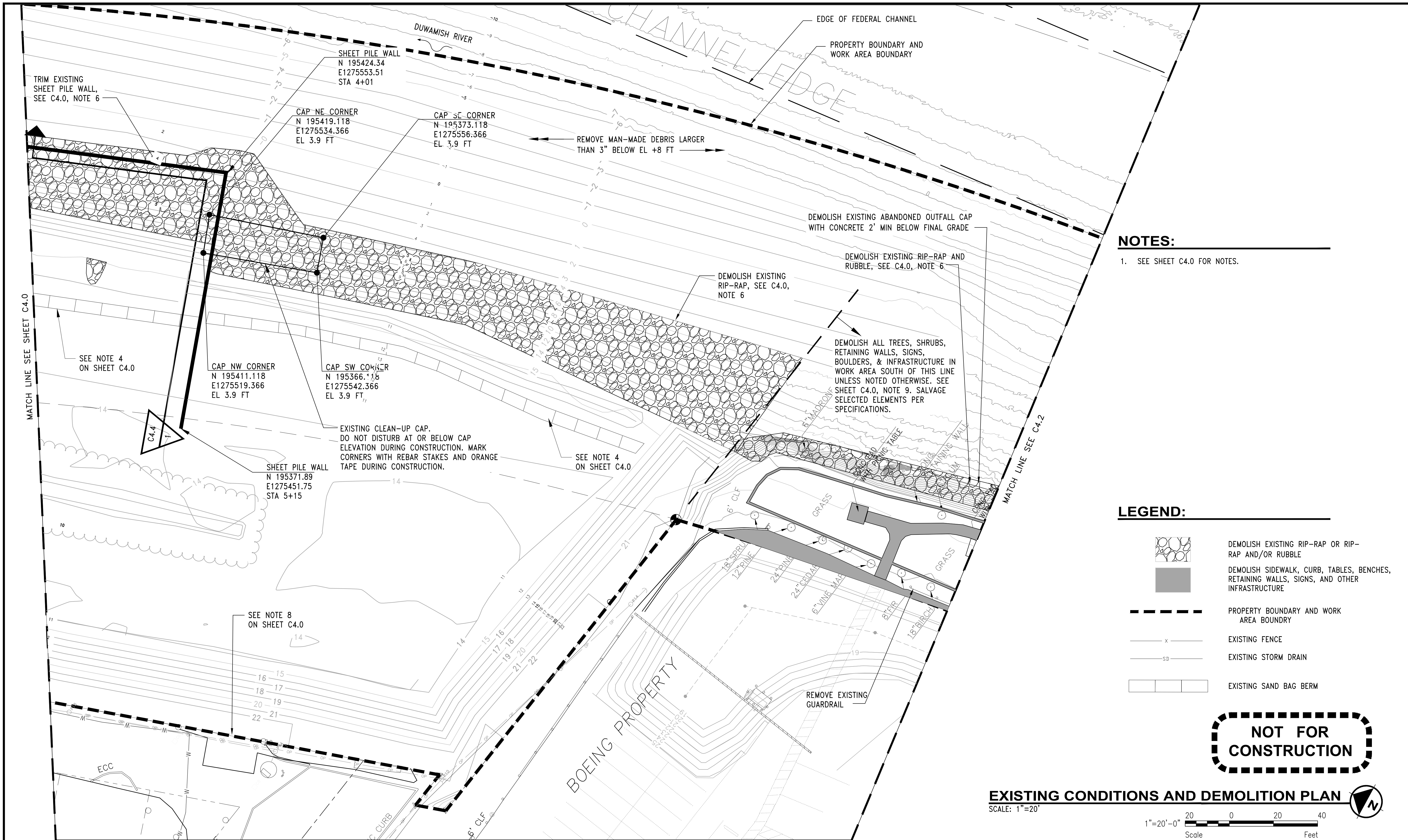
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NO.	DATE	BY	DESCRIPTION	APP'D	NO.	DATE	BY	DESCRIPTION	APP'D
1	5/11/17		ISSUED FOR BID						



PROJECT MANAGER:
TICSON MACH
PROJECT ENGINEER:
JOANNA HINGLE
DESIGN ENGINEER:
attila laszlo
DRAFTER:
KEN LANE
SCALE:
AS SHOWN
DATE:
5/11/2017
CHECKED/APPROVED BY:

Port of Seattle MARITIME DIVISION
PROJECT: **SITE 23 & 25 RESTORATION**
SHEET TITLE: **EXISTING CONDITIONS AND DEMOLITION PLAN**
(1 OF 4)

WORK PROJECT NO.
105563
CONSULTANT'S NO.
PORT OF SEATTLE NO.
117-1201 **C4.0**



NOTES:
 1. SEE SHEET C4.0 FOR NOTES.

- LEGEND:**
- DEMOLISH EXISTING RIP-RAP OR RIP-RAP AND/OR RUBBLE
 - DEMOLISH SIDEWALK, CURB, TABLES, BENCHES, RETAINING WALLS, SIGNS, AND OTHER INFRASTRUCTURE
 - PROPERTY BOUNDARY AND WORK AREA BOUNDARY
 - EXISTING FENCE
 - EXISTING STORM DRAIN
 - EXISTING SAND BAG BERM

NOT FOR CONSTRUCTION

EXISTING CONDITIONS AND DEMOLITION PLAN
 SCALE: 1"=20'
 1"=20'-0" 20 0 20 40
 Scale Feet

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 1-800-424-5555

PROJECT ENGR./ARCH:
 DESIGNER:
 DRAWN BY:
 SCALE:
 DATE:
 CHECKED BY:
 CHECKED/APPROVED BY:

REVISIONS							
NO.	DATE	BY	DESCRIPTION	APP'D	NO.	DATE	BY
1	5/11/17		ISSUED FOR BID				

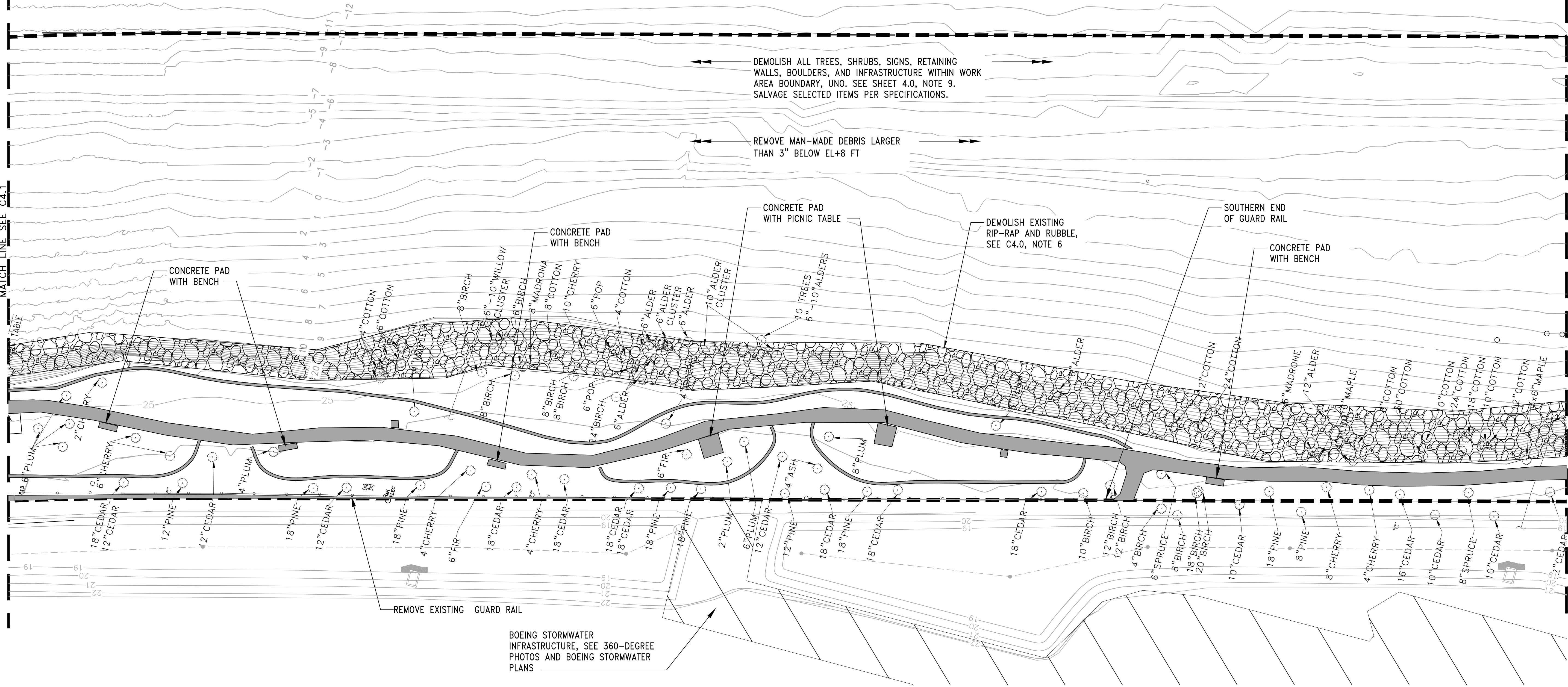


PROJECT MANAGER:
 TICSÓN MACH
 PROJECT ENGINEER:
 JOANNA HINGLE
 DESIGN ENGINEER:
 ATTILA LASZLO
 DRAFTER:
 KEN LANE
 SCALE:
 AS SHOWN
 DATE:
 5/11/2017
 CHECKED/APPROVED BY:

Port of Seattle MARITIME DIVISION
 PROJECT: SITE 23 & 25 RESTORATION
 SHEET TITLE: EXISTING CONDITIONS AND DEMOLITION PLAN
 (2 of 4)

WORK PROJECT NO.
 105563
 CONSULTANT'S NO.
 PORT OF SEATTLE NO.
 117-1201 **C4.1**

DUWAMISH RIVER

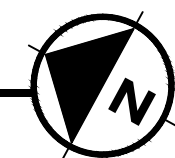
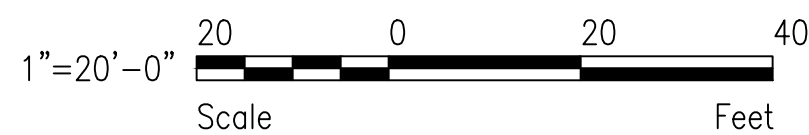


MATCH LINE SEE C4.1

MATCH LINE SEE C4.3

EXISTING CONDITIONS AND DEMOLITION PLAN

SCALE: 1"=20'



NOTES:

- SEE SHEET C4.0 FOR NOTES.

NOT FOR
CONSTRUCTION

LEGEND:

- DEMOLISH EXISTING RIP-RAP AND/OR RUBBLE
- PROPERTY BOUNDARY AND WORK AREA BOUNDARY
- EXISTING FENCE
- EXISTING STORM DRAIN
- CONTRACTOR ACCESS AREA
- DEMOLISH SIDEWALK, CURB, TABLES, RETAINING WALLS, BENCHES, SIGNS, AND OTHER INFRASTRUCTURE

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PROJECT ENGR./ARCH:	
DESIGNER:	
DRAWN BY:	
SCALE:	
DATE:	
CHECKED BY:	
CHECKED/APPROVED BY:	

REVISIONS					
NO.	DATE	BY	DESCRIPTION	APP'D	NO.
5/11/17			ISSUED FOR BID		



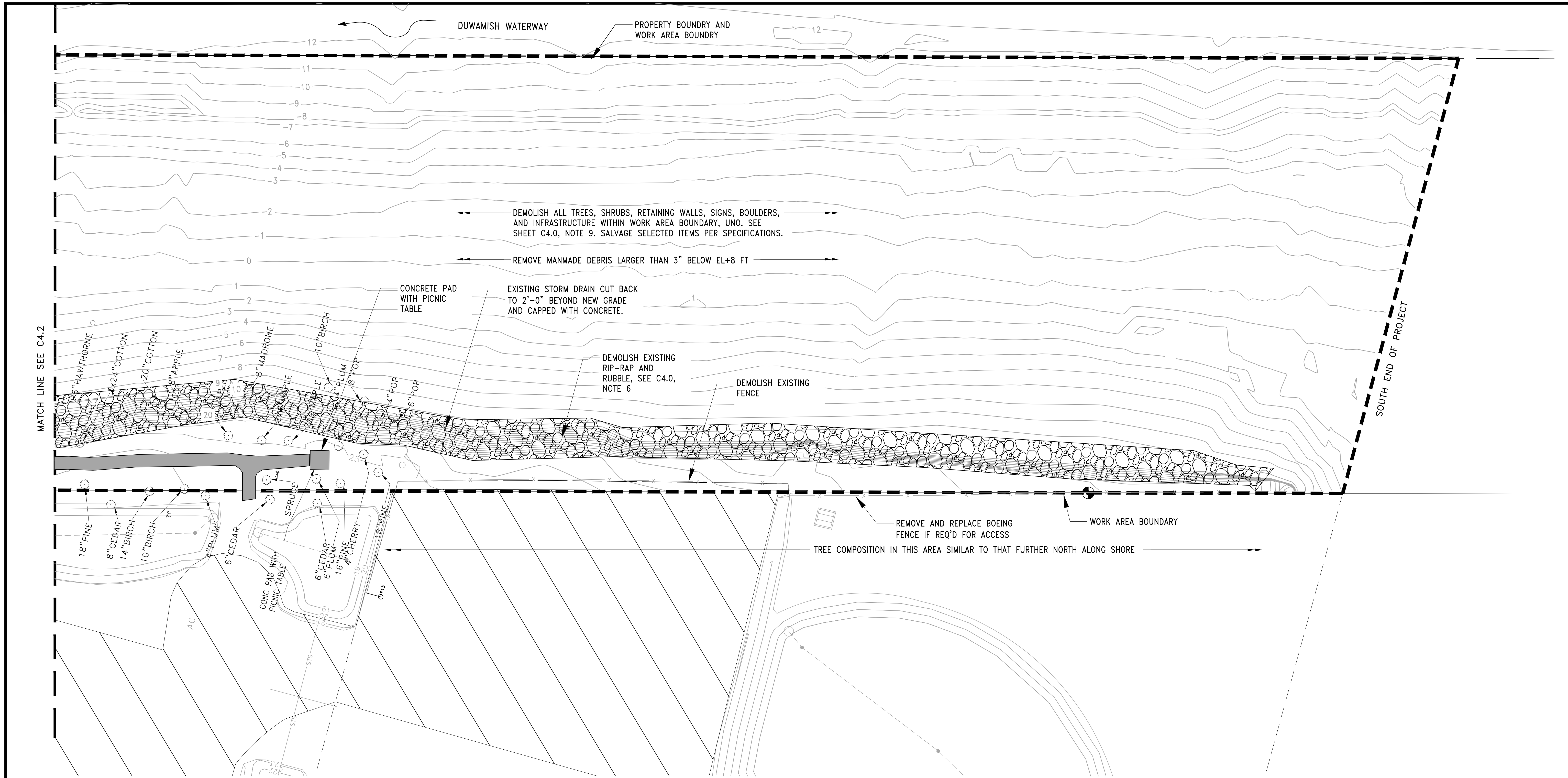
PROJECT MANAGER:
TICSON MACH
PROJECT ENGINEER:
JOANNA HINGLE
DESIGN ENGINEER:
ATTILA LASZLO
DRAFTER:
KEN LANE
SCALE:
AS SHOWN
DATE:
5/11/2017
CHECKED/APPROVED BY:

Port of Seattle MARITIME DIVISION
PROJECT: **SITE 23 & 25 RESTORATION**

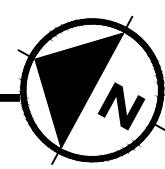
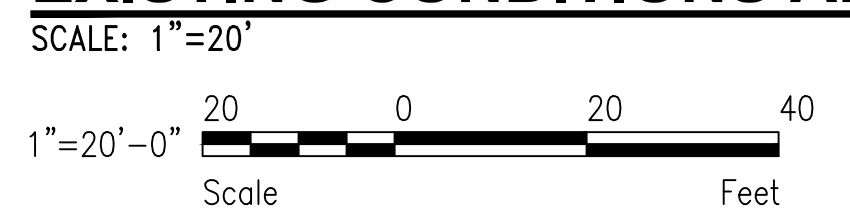
SHEET TITLE: **EXISTING CONDITIONS AND DEMOLITION PLAN**
(3 of 4)

WORK PROJECT NO.
105563
CONSULTANT'S NO.
PORT OF SEATTLE NO.
117-1201 **C4.2**

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EXISTING CONDITIONS AND DEMOLITION PLAN



SHEET NOTES:

- SEE SHEET C4.0 FOR NOTES.

NOT FOR CONSTRUCTION

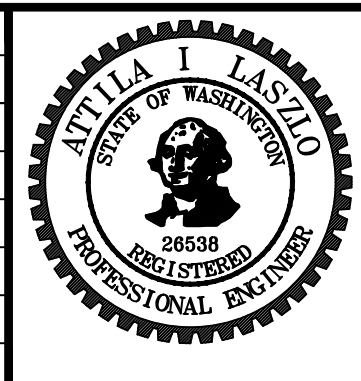
LEGEND:

- DEMOLISH EXISTING RIP-RAP AND/OR RUBBLE
- DEMOLISH SIDEWALK, CURB, TABLES, RETAINING WALLS, BENCHES, SIGNS, AND OTHER INFRASTRUCTURE
- PROPERTY BOUNDARY AND WORK AREA BOUNDARY
- EXISTING FENCE
- EXISTING STORM DRAIN
- CONTRACTOR ACCESS AREA

CALL 2 DAYS BEFORE YOU DIG
1-800-424-5555

PROJECT ENGR./ARCH:	
DESIGNER:	
DRAWN BY:	
SCALE:	
DATE:	
CHECKED BY:	
CHECKED/APPROVED BY:	

REVISIONS							
NO.	DATE	BY	DESCRIPTION	APP'D	NO.	DATE	BY
1	5/11/17		ISSUED FOR BID				



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KEN LANE
SCALE:
AS SHOWN
DATE:
5/11/2017
CHECKED/APPROVED BY:

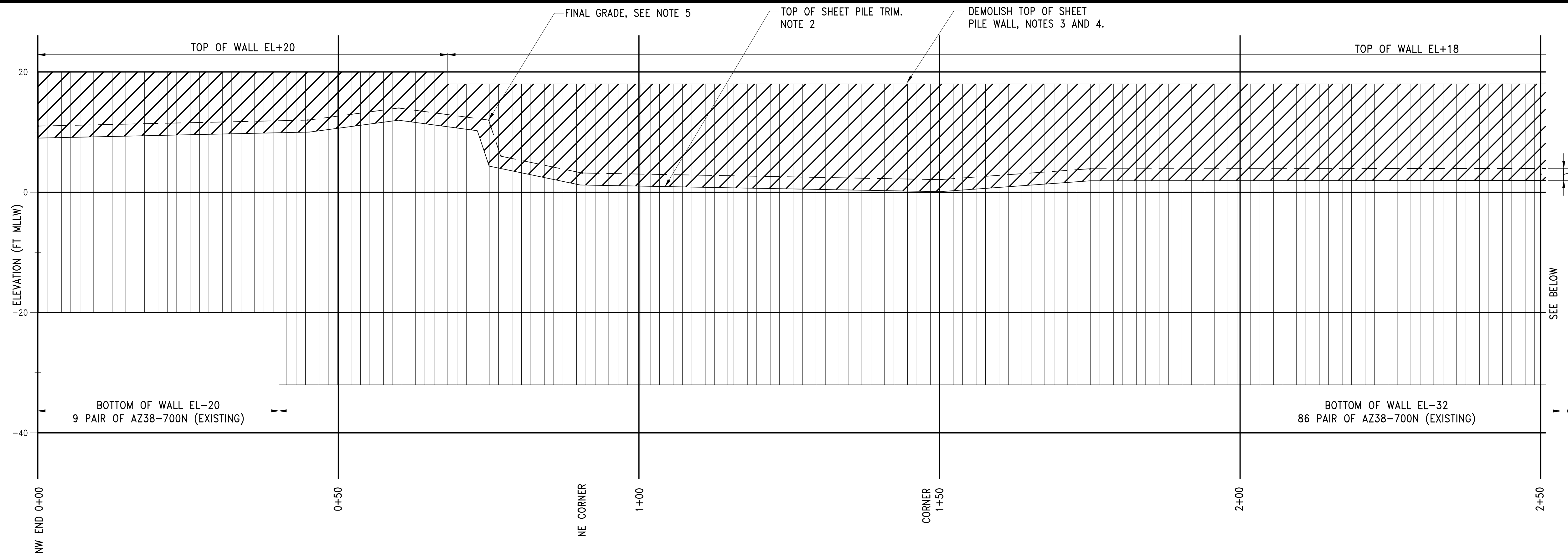
Port of Seattle MARITIME DIVISION

PROJECT: **SITE 23 & 25 RESTORATION**

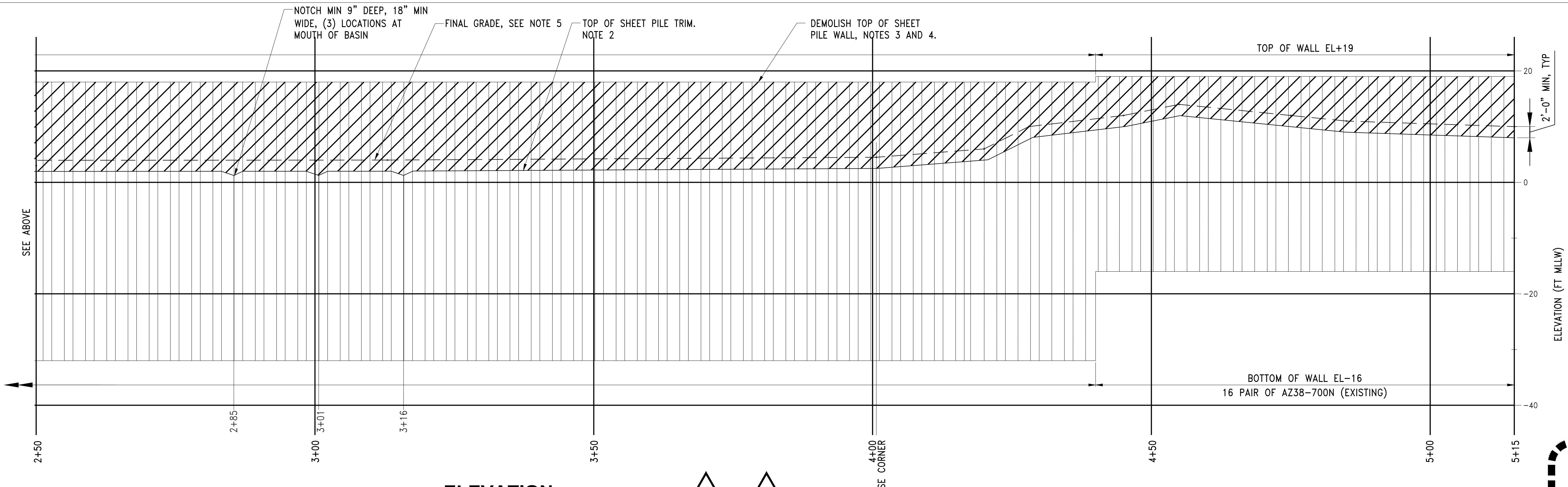
SHEET TITLE: **EXISTING CONDITIONS AND DEMOLITION PLAN (4 of 4)**

WORK PROJECT NO.	105563
CONSULTANT'S NO.	
PORT OF SEATTLE NO.	117-1201
C4.3	

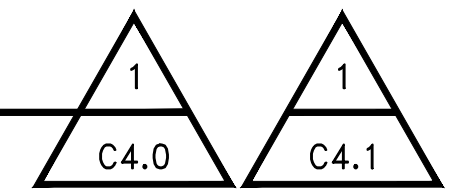
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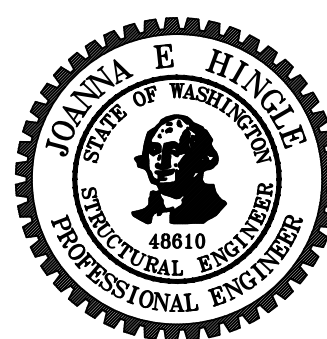
- NOTES:**
1. CONTRACTOR TO FIELD-VERIFY AS-BUILT LOCATION OF SHEET PILE WALL.
 2. GRIND OR OTHERWISE SMOOTH TOP OF REMAINING SHEET PILE, 1/8" MINIMUM RADIUS.
 3. NOT USED.
 4. UNLESS OTHERWISE APPROVED BY THE ENGINEER, PRIMARY EXCAVATION FOR TRIM SHALL OCCUR ON THE UPLAND SIDE OF THE SHEET PILE WALL AND EXCAVATION ON THE WATERSIDE SHALL BE NO MORE THAN 6 INCHES BELOW THE FINAL TOP OF SHEET ELEVATION.
 5. SEE GRADING PLANS FOR ELEVATIONS



ELEVATION
SHEET PILE WALL



REVISIONS									
NO.	DATE	BY	DESCRIPTION	APP'D	NO.	DATE	BY	DESCRIPTION	APP'D
1	5/11/17		ISSUED FOR BID						



PROJECT MANAGER:
TICSON MACH
PROJECT ENGINEER:
JOANNA HINGLE
DESIGN ENGINEER:
JOANNA HINGLE
DRAFTER:
JORGE GAVIDIA
SCALE:
AS SHOWN
DATE:
5/11/2017
CHECKED/APPROVED BY:

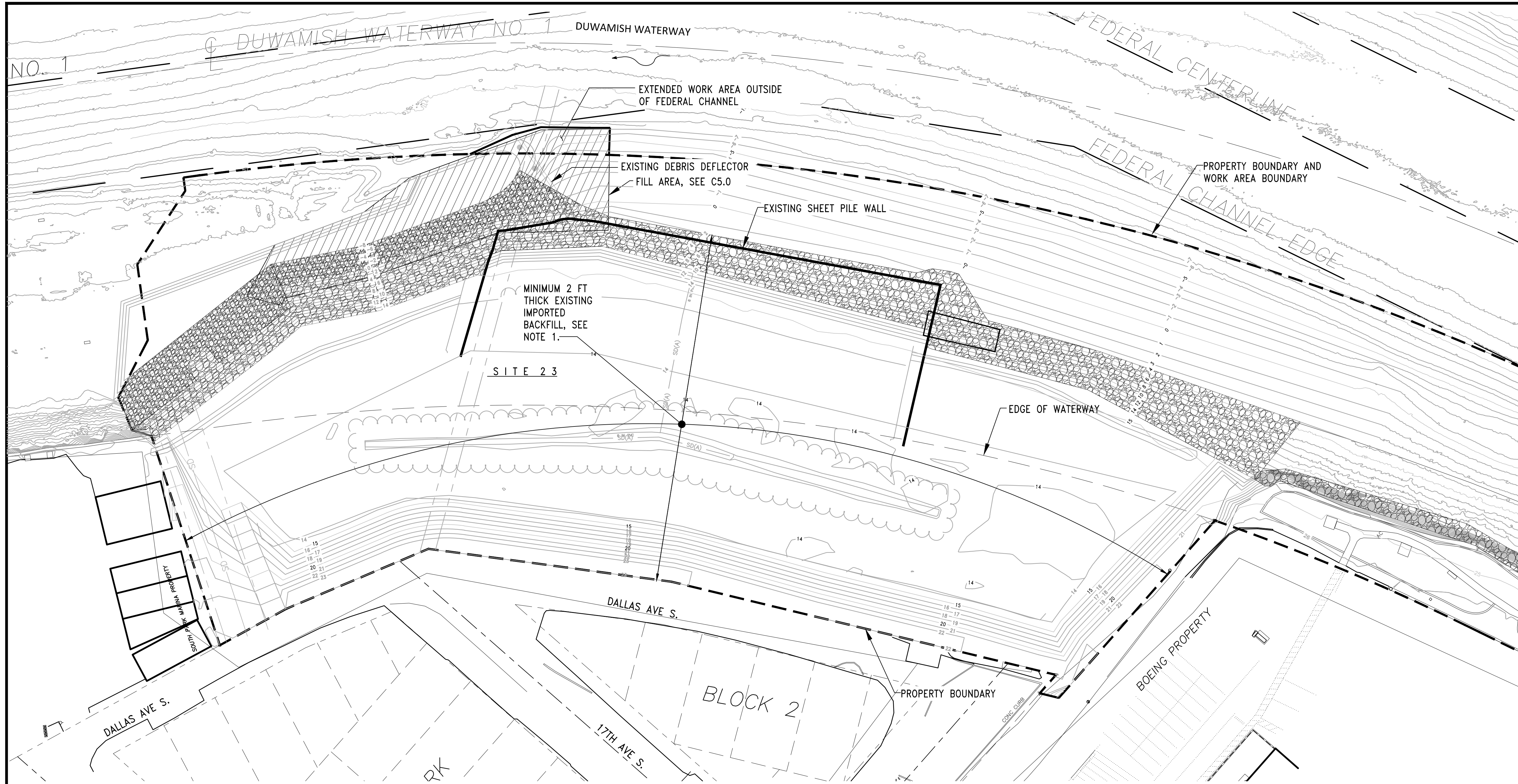
Port of Seattle MARITIME DIVISION
PROJECT: **SITE 23 & 25 RESTORATION**
SHEET TITLE: **SHEET PILE WALL DEMOLITION**

NOT FOR CONSTRUCTION

CALL 2 DAYS BEFORE YOU DIG
1-800-424-5555

PROJECT ENGR./ARCH:
DESIGNER:
DRAWN BY:
SCALE:
DATE:
CHECKED BY:
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WORK PROJECT NO.
105563
CONSULTANT'S NO.
PORT OF SEATTLE NO.
117-1201 **C4.4**



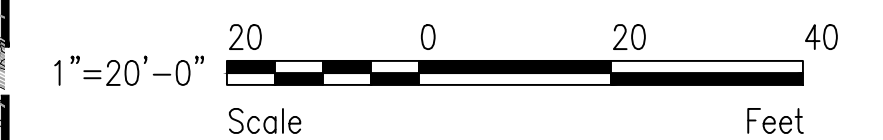
NOTES:

1. BACKFILLED CLEAN-UP AREA, SEE SECTIONS A AND B FOR TYPICAL LAYERING. BACKFILL THICKNESS VARIES WIDELY.
2. NO SURVEY DATA EXISTS REGARDING ELEVATION OF DELINEATION BETWEEN BACKFILL AND REGRADED NATIVE FILL. LAYERS ARE DELINEATED BY SHEET OF GEOTEXTILE FABRIC.
3. NO PHYSICAL BARRIER EXISTS BETWEEN BOTTOM OF CLEAN-UP EXCAVATION AND RE-GRADED NATIVE MATERIAL.

LEGEND:

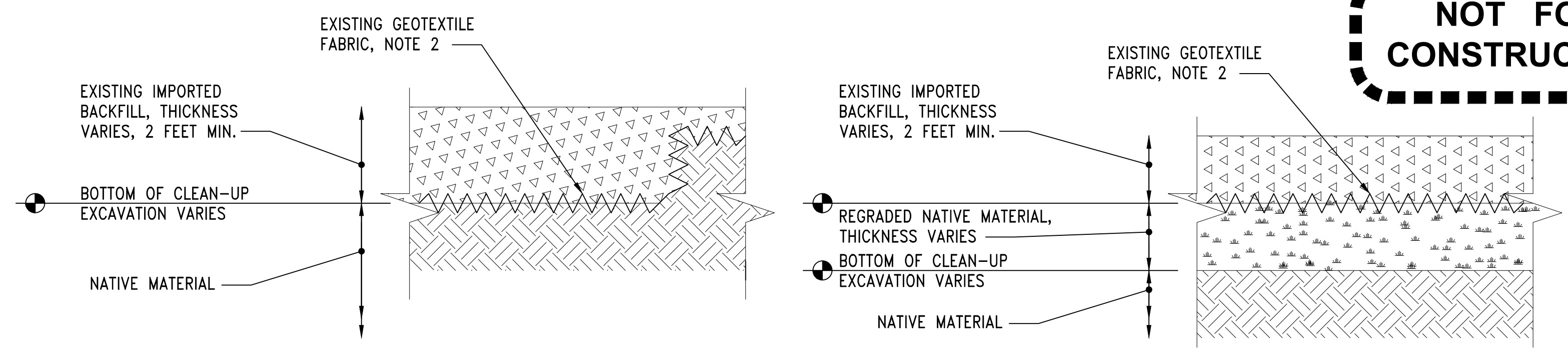
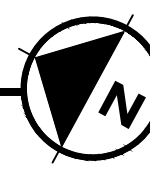
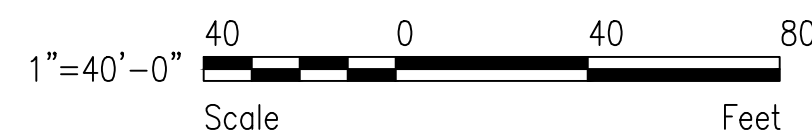
- PROPERTY BOUNDARY AND WORK AREA BOUNDARY
- 10 — EXISTING CONTOUR

GRAPHIC SCALE



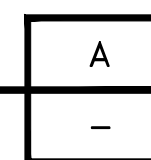
NATIVE MATERIAL INFORMATION

SCALE: 1"=40'



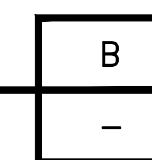
SECTION

TYPICAL FILL - NO REGRADE
SCALE: NTS



SECTION

TYPICAL FILL - REGRADE
SCALE: NTS

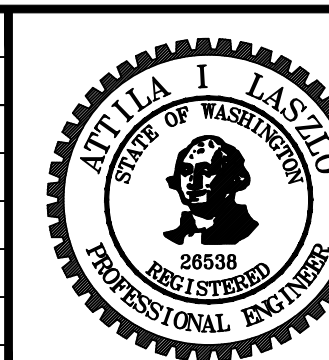


NOT FOR CONSTRUCTION

CALL 2 DAYS BEFORE YOU DIG
1-800-424-5555

PROJECT ENGR./ARCH:
DESIGNER:
DRAWN BY:
SCALE:
DATE:
CHECKED BY:
CHECKED/APPROVED BY:

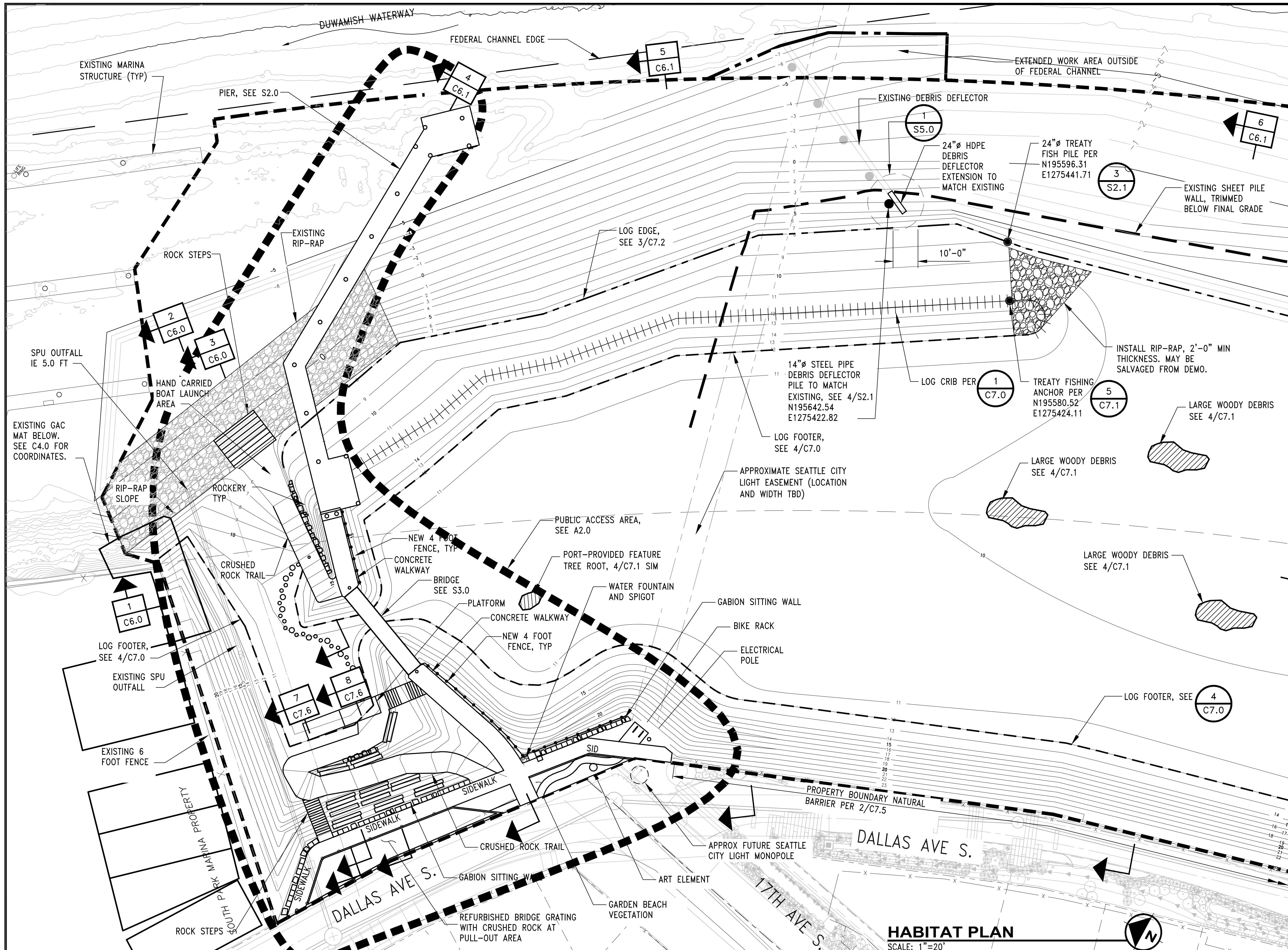
REVISIONS							
NO.	DATE	BY	DESCRIPTION	APP'D	NO.	DATE	BY
1	5/11/17		ISSUED FOR BID				



PROJECT MANAGER:
TICSON MACH
PROJECT ENGINEER:
JOANNA HINGLE
DESIGN ENGINEER:
ATTILA LASZLO
DRAFTER:
KEN LANE
SCALE:
AS SHOWN
DATE:
5/11/2017
CHECKED/APPROVED BY:

Port of Seattle MARITIME DIVISION
PROJECT: **SITE 23 & 25 RESTORATION**
SHEET TITLE: **NATIVE MATERIAL INFORMATION**

WORK PROJECT NO.
105563
CONSULTANT'S NO.
PORT OF SEATTLE NO.
117-1201 **C4.5**

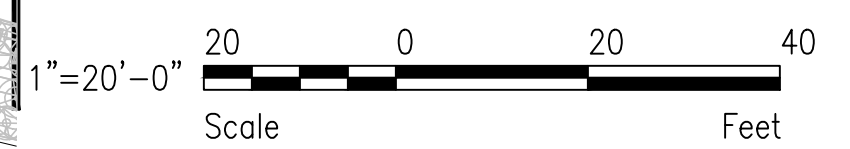


- GENERAL NOTES:**
- SEE GRADING PLANS, C8.0 THRU C8.4, FOR SPECIFIC NORTHING, EASTING, AND ELEVATION LOCATIONS OF ALL ELEMENTS.
 - WHERE ANY NEW GRADE EXCAVATION CROSSES INTO NATIVE MATERIAL, EXCAVATION SHALL NOT BE DEEPER THAN REQUIRED.
 - FOR ALL CONSTRUCTION ACTIVITIES IN TIDALLY INFLUENCED AREAS, SEE PHASING NOTES ON C2.0.

NOT FOR CONSTRUCTION

- LEGEND:**
- 10 EXISTING CONTOUR
 - 10 NEW CONTOUR
 - LOG CRIB
 - LOG EDGE
 - LOG FOOTER
 - LOG TOE
 - PROPERTY BOUNDARY
 - EXTENDED WORK AREA
 - EXISTING RIP-RAP
 - RIP-RAP
 - LOGS

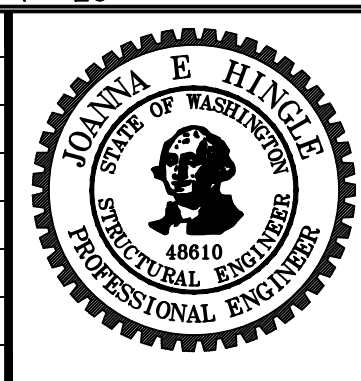
HABITAT PLAN
SCALE: 1"=20'



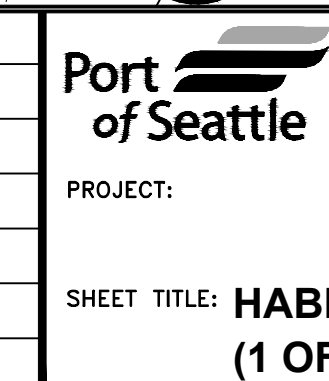
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PROJECT ENGR./ARCH:
DESIGNER:
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SCALE:
DATE:
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REVISIONS									
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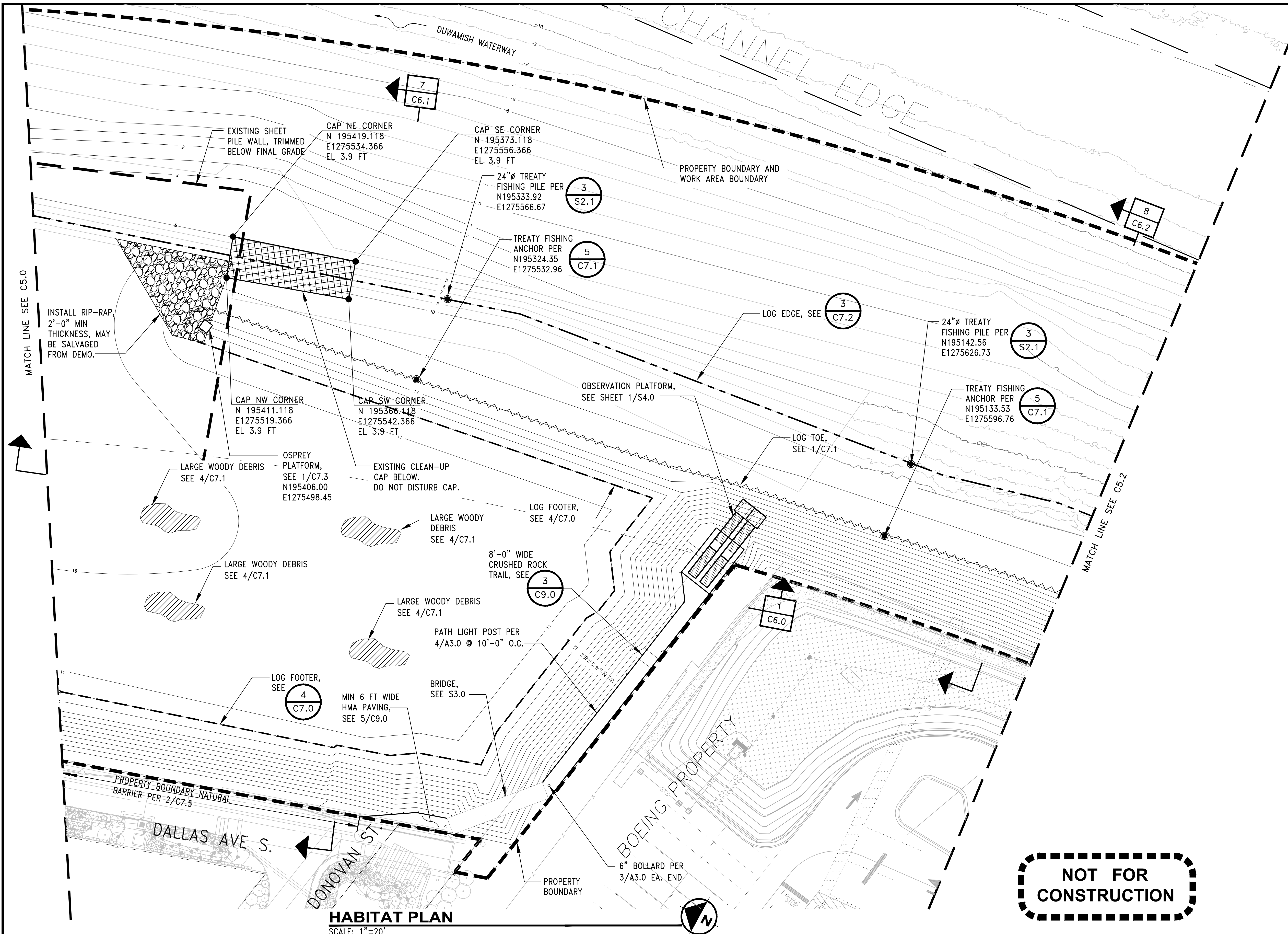


PROJECT MANAGER:
PROJECT ENGINEER:
DESIGN ENGINEER: JOANNA HINGLE
DRAFTER: KEN LANE
SCALE: AS SHOWN
DATE:
CHECKED/APPROVED BY:



PROJECT:
SHEET TITLE: **HABITAT PLAN**
(1 OF 4)

WORK PROJECT NO.
CONSULTANT'S NO.
PORT OF SEATTLE NO.
C5.0



NOTES:

- 1. SEE SHEET C5.0 FOR NOTES.

LEGEND:

- 10 — EXISTING CONTOUR
- 10 — NEW CONTOUR
- ||||| LOG CRIB
- — — LOG EDGE
- — — LOG FOOTER
- ~ ~ ~ LOG TOE
- - - - - PROPERTY BOUNDARY
- - - - - EXTENDED WORK AREA
- ⊘ RIP-RAP

GRAPHOC SCALE:



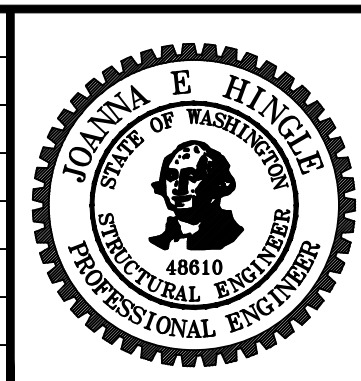
NOT FOR CONSTRUCTION

HABITAT PLAN
SCALE: 1"=20'

CALL 2 DAYS BEFORE YOU DIG
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PROJECT ENGR./ARCH:
DESIGNER:
DRAWN BY:
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PROJECT MANAGER:
TICSON MACH
PROJECT ENGINEER:
JOANNA HINGLE
DESIGN ENGINEER:
JOANNA HINGLE
DRAFTER:
JORGE GAVIDIA
SCALE:
AS SHOWN
DATE:
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Port of Seattle MARITIME DIVISION
PROJECT: SITE 23 & 25 RESTORATION
SHEET TITLE: **HABITAT PLAN**
(2 OF 4)

WORK PROJECT NO.
105563
CONSULTANT'S NO.
PORT OF SEATTLE NO.
117-1201 **C5.1**

DUWAMISH WATERWAY

PROPERTY BOUNDARY AND WORK AREA BOUNDARY

9
C6.2

24" Ø TREATY FISHING PILE PER
N194951.16
E1275687.15

3
S2.1

LOG EDGE, SEE

3
C7.2

24" Ø TREATY FISHING PILE PER
N194758.51
E1275733.98

3
S2.1

24" TREATY FISHING PILE PER
N194557.16
E1275761.12

3
S2.1

TREATY FISHING ANCHOR PER
N194942.20
E1275654.75

5
C7.1

LOG TOE, SEE

1
C7.1

TREATY FISHING ANCHOR PER
N194749.84
E1275700.02

5
C7.1

TREATY FISHING ANCHOR PER
N194553.82
E1275747.25

5
C7.1

WORK AREA BOUNDARY

NOTES:

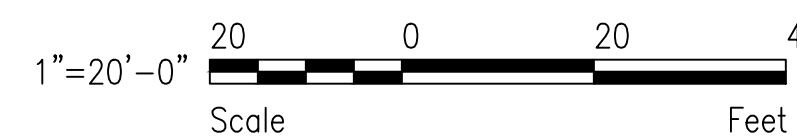
- SEE DRAWING C5.0 FOR NOTES.

LEGEND:

- 10 EXISTING CONTOUR
- 10 NEW CONTOUR
- LOG CRIB
- LOG EDGE
- LOG FOOTER
- LOG TOE
- PROPERTY BOUNDARY

NOT FOR CONSTRUCTION

GRAPHIC SCALE:

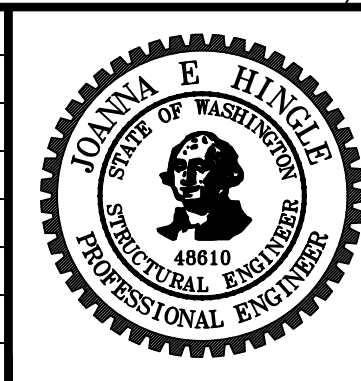


HABITAT PLAN

SCALE: 1"=20'

REVISIONS

NO.	DATE	BY	DESCRIPTION	APP'D	NO.	DATE	BY	DESCRIPTION	APP'D
1	5/11/17		ISSUED FOR BID						



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DESIGN ENGINEER:
JOANNA HINGLE
DRAFTER:
JORGE GAVIDIA
SCALE:
AS SHOWN
DATE:
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Port of Seattle MARITIME DIVISION
PROJECT: **SITE 23 & 25 RESTORATION**
SHEET TITLE: **HABITAT PLAN (3 OF 4)**

WORK PROJECT NO. **105563**
CONSULTANT'S NO.
PORT OF SEATTLE NO. **117-1201 C5.2**

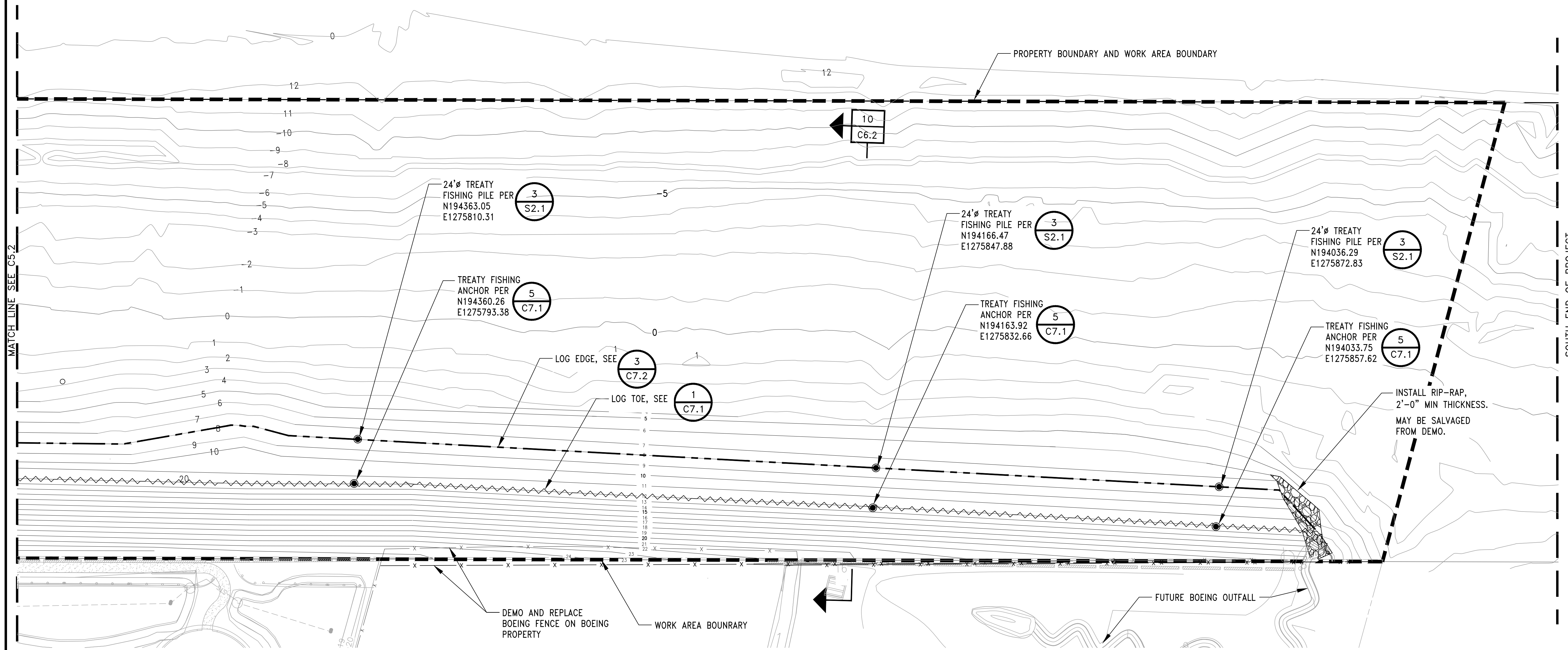
CALL 2 DAYS BEFORE YOU DIG
1-800-424-5555

PROJECT ENGR./ARCH:
DESIGNER:
DRAWN BY:
SCALE:
DATE:
CHECKED BY:
CHECKED/APPROVED BY:

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DUWAMISH WATERWAY

PROPERTY BOUNDARY AND WORK AREA BOUNDARY



MATCH LINE SEE C5.2

SOUTH END OF PROJECT

NOTES:

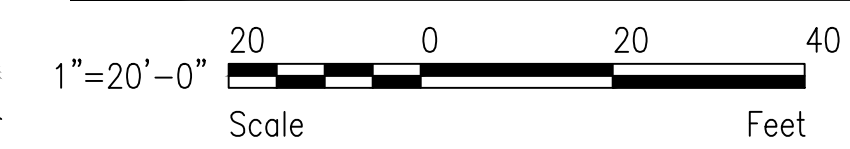
- 1. SEE DRAWING C5.0 FOR NOTES.

LEGEND:

- 10 — EXISTING CONTOUR
- - - 10 - - - NEW CONTOUR
- ||||| LOG CRIB
- - - LOG EDGE
- - - LOG FOOTER
- ~~~~~ LOG TOE
- - - - - PROPERTY BOUNDARY
- ||||| RIP-RAP

NOT FOR CONSTRUCTION

GRAPHIC SCALE:



HABITAT PLAN

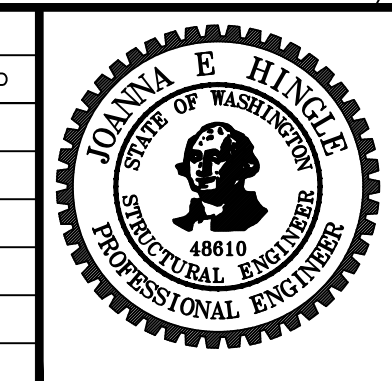
SCALE: 1"=20'

REVISIONS

NO.	DATE	BY	DESCRIPTION	APP'D	NO.	DATE	BY	DESCRIPTION	APP'D
1	5/11/17		ISSUED FOR BID						

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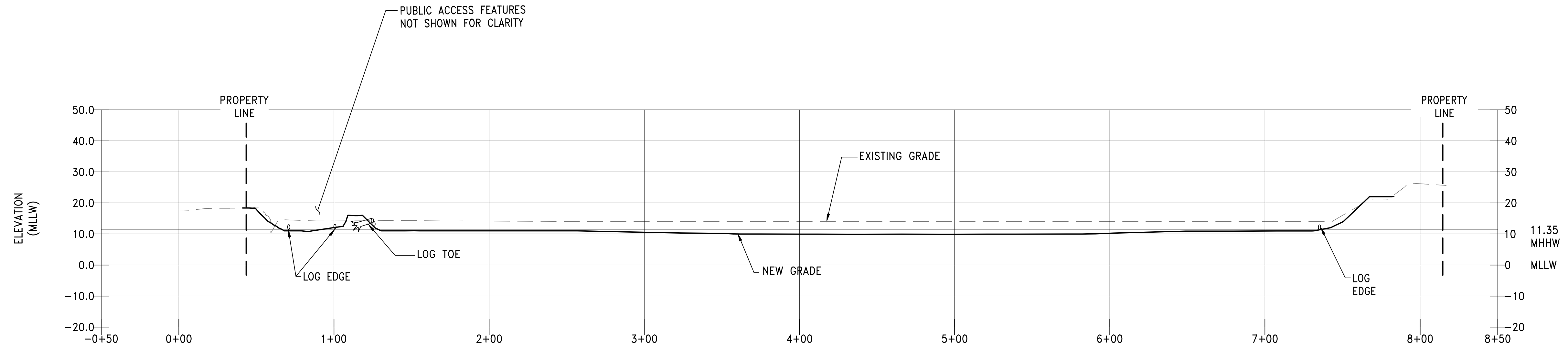


PROJECT MANAGER:
TICSON MACH
PROJECT ENGINEER:
JOANNA HINGLE
DESIGN ENGINEER:
JOANNA HINGLE
DRAFTER:
JORGE GAVIDIA
SCALE:
AS SHOWN
DATE:
5/11/2017
CHECKED/APPROVED BY:

Port of Seattle MARITIME DIVISION
PROJECT: **SITE 23 & 25 RESTORATION**
SHEET TITLE: **HABITAT PLAN (4 OF 4)**

WORK PROJECT NO. **105563**
CONSULTANT'S NO.
PORT OF SEATTLE NO. **117-1201 C5.3**

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SECTION

SCALE: 1" = 40' HORIZ
1" = 20' VERT

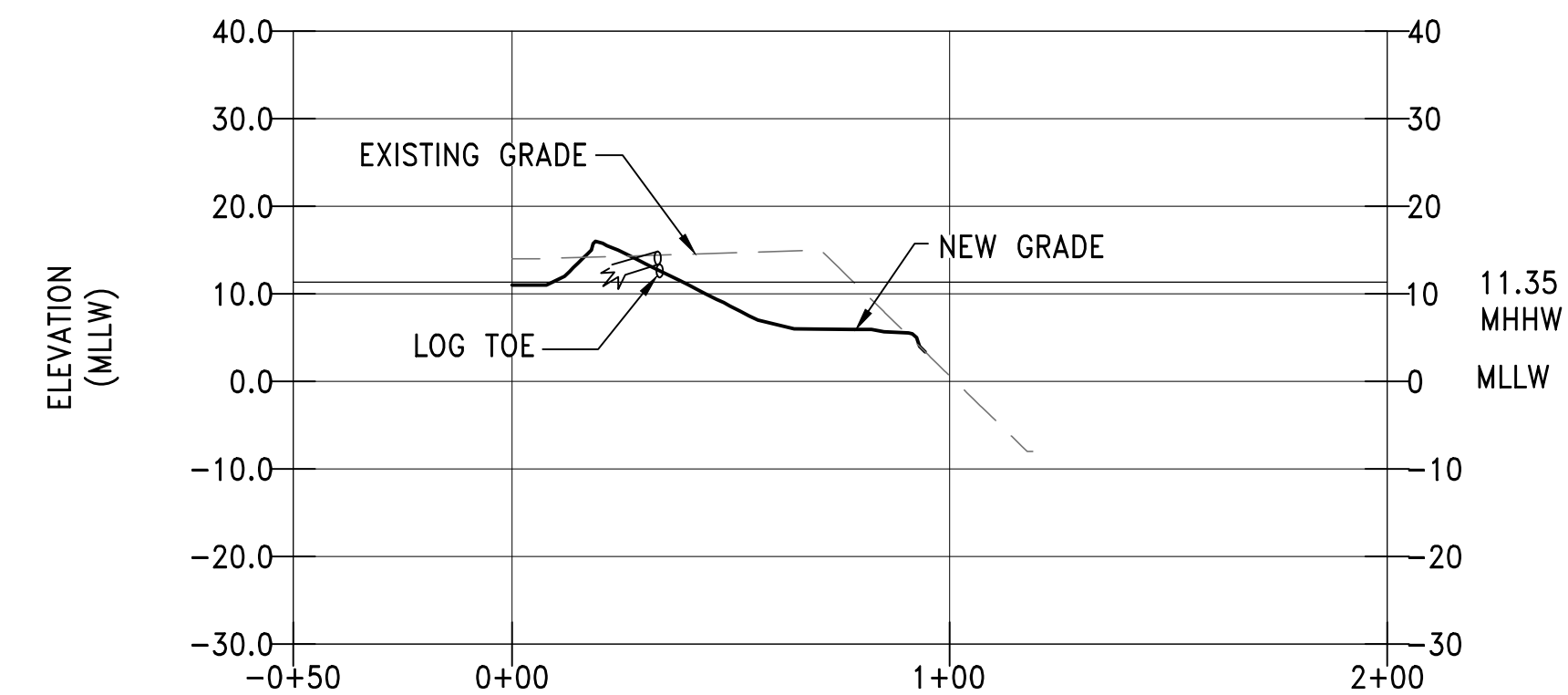
1	1
C5.0	C5.1



SECTION

SCALE: 1" = 40' HORIZ
1" = 20' VERT

2
C5.0



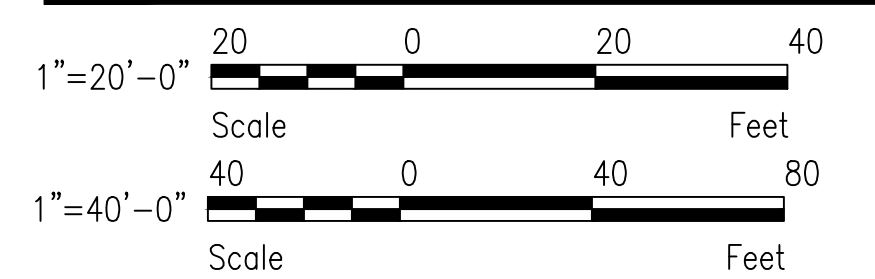
SECTION

SCALE: 1" = 40' HORIZ
1" = 20' VERT

3
C5.0

NOT FOR CONSTRUCTION

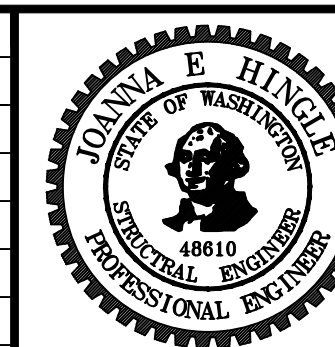
GRAPHIC SCALES



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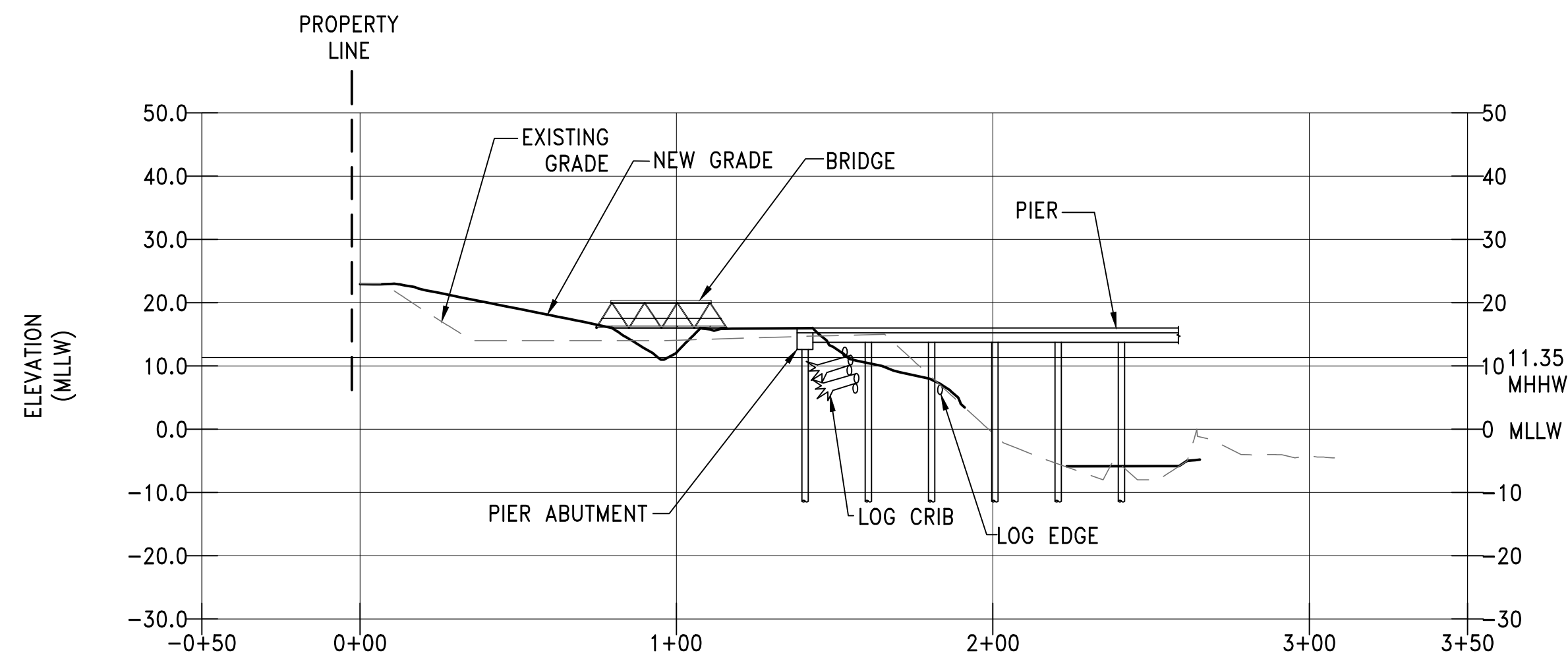
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SCALE: AS SHOWN
DATE: 5/11/2017
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Port of Seattle MARITIME DIVISION
PROJECT: **SITE 23 & 25 RESTORATION**
SHEET TITLE: **HABITAT SECTIONS SHEET 1**

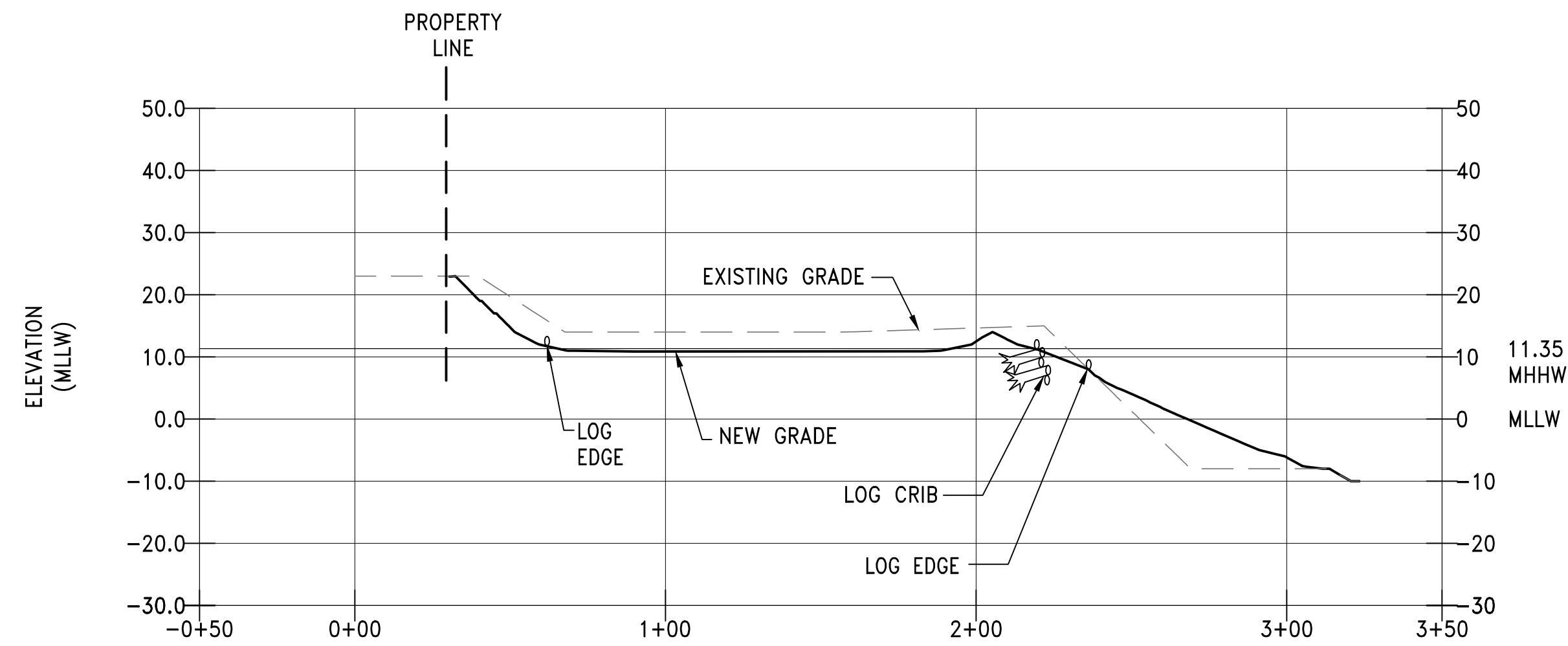
WORK PROJECT NO. 105563
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SECTION

SCALE: 1" = 40' HORIZ
1" = 20' VERT

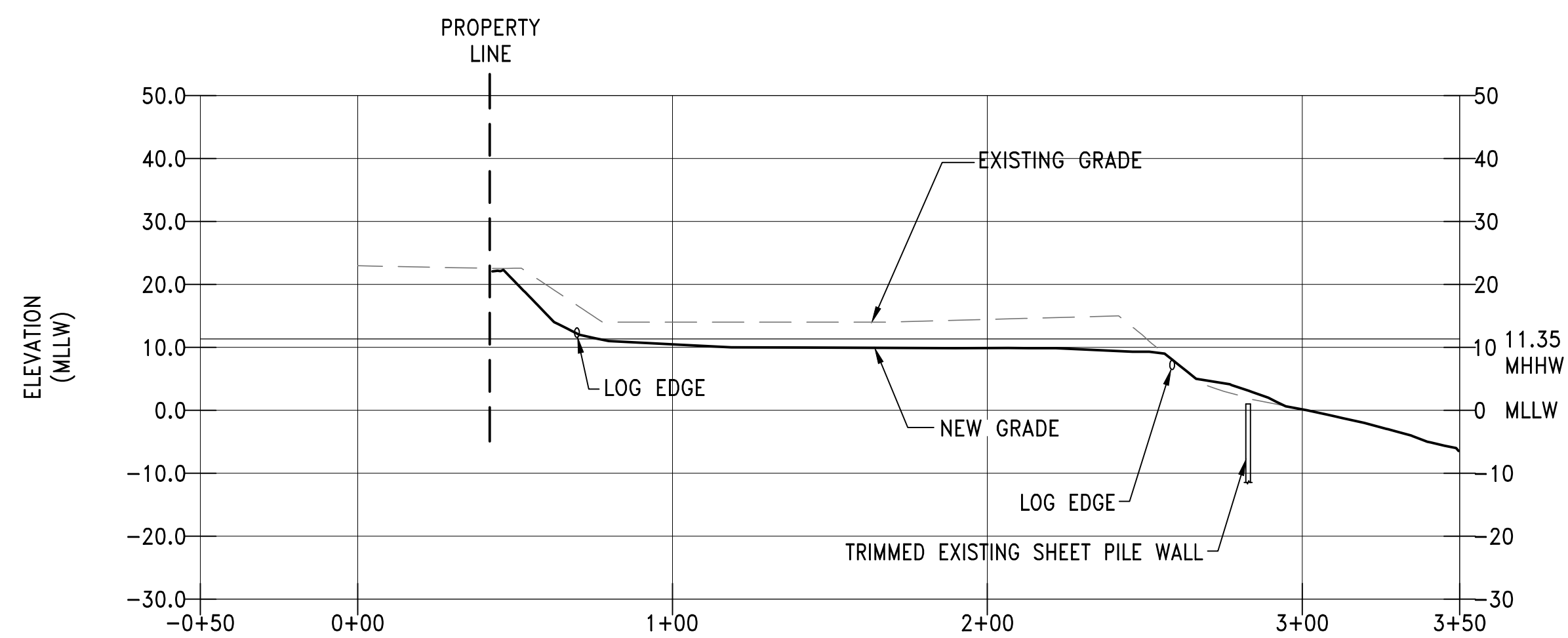
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C5.0



SECTION

SCALE: 1" = 40' HORIZ
1" = 20' VERT

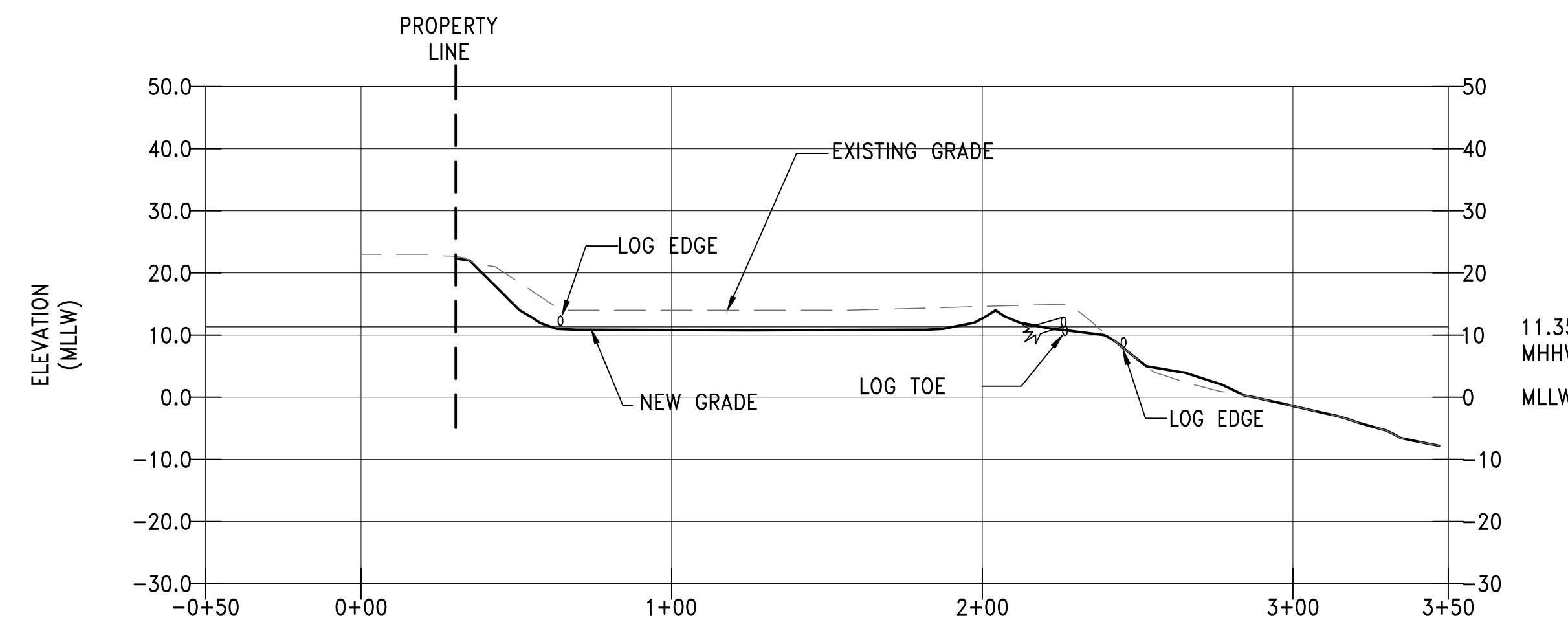
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C5.0



SECTION

SCALE: 1" = 40' HORIZ
1" = 20' VERT

6
C5.0

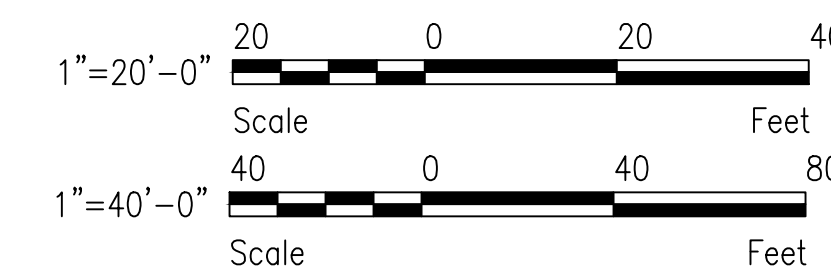


SECTION

SCALE: 1" = 40' HORIZ
1" = 20' VERT

7
C5.1

GRAPHIC SCALES

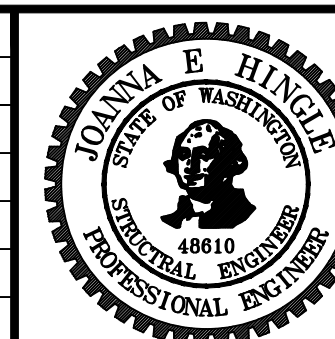


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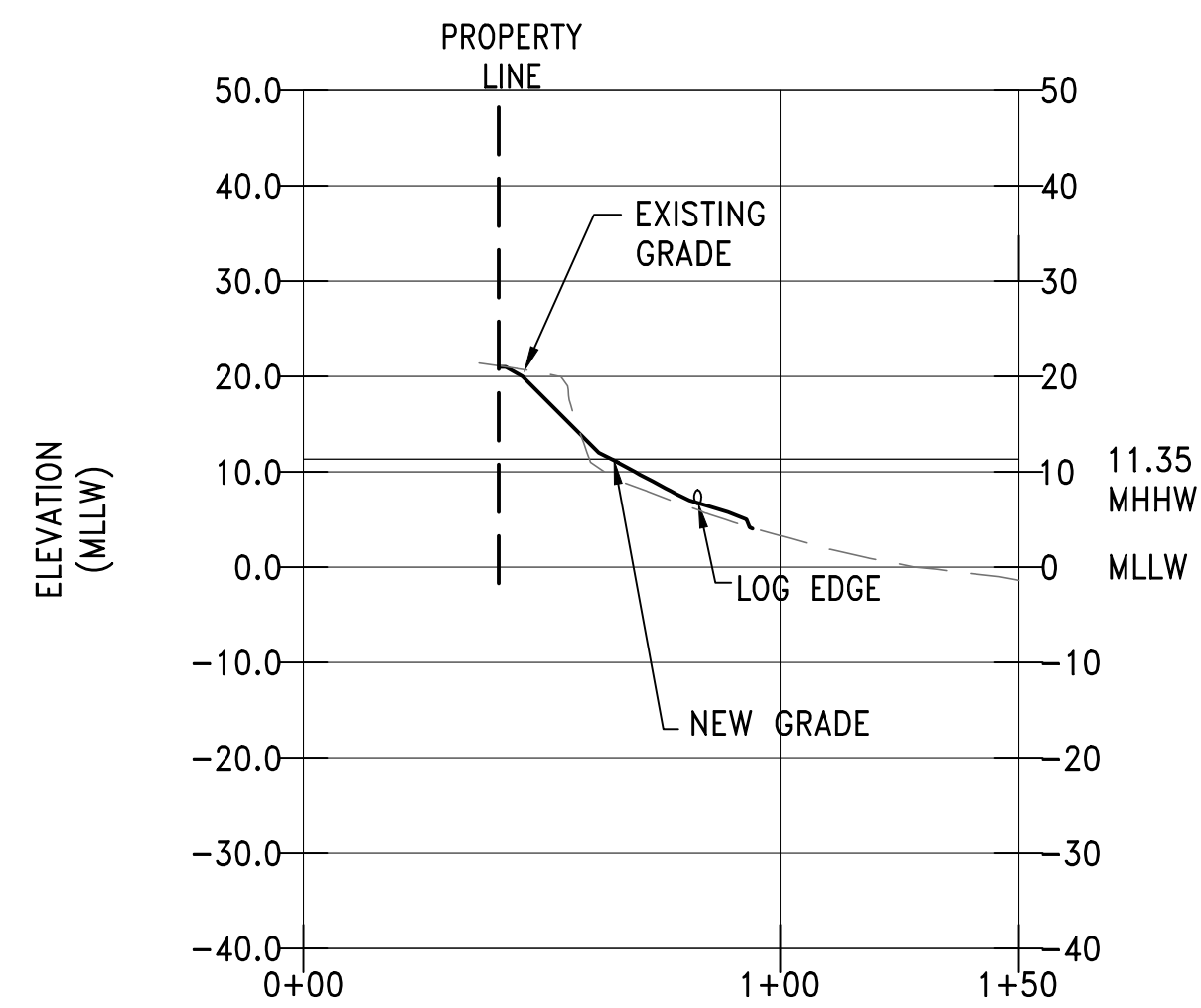
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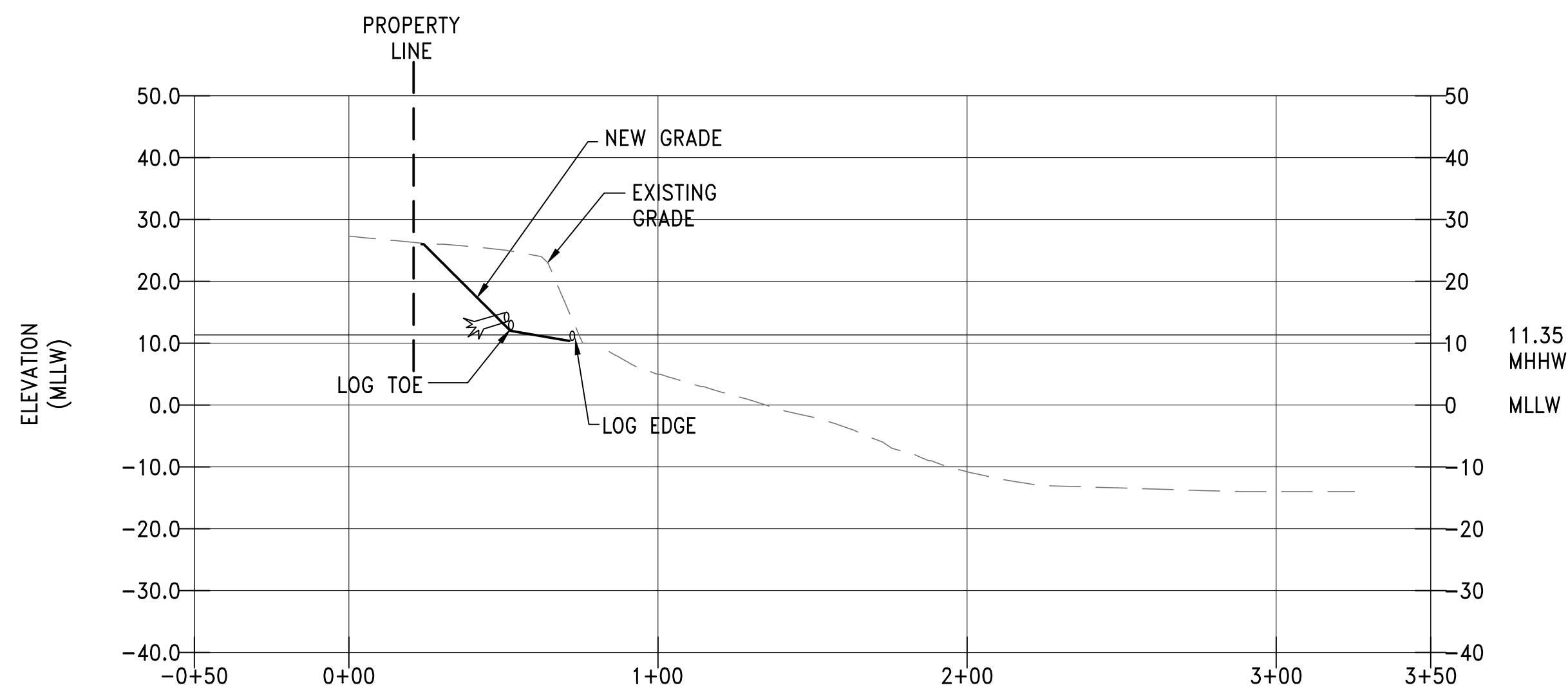
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JOANNA HINGLE
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Port of Seattle MARITIME DIVISION
PROJECT: **SITE 23 & 25 RESTORATION**
SHEET TITLE: **HABITAT SECTIONS SHEET 2**

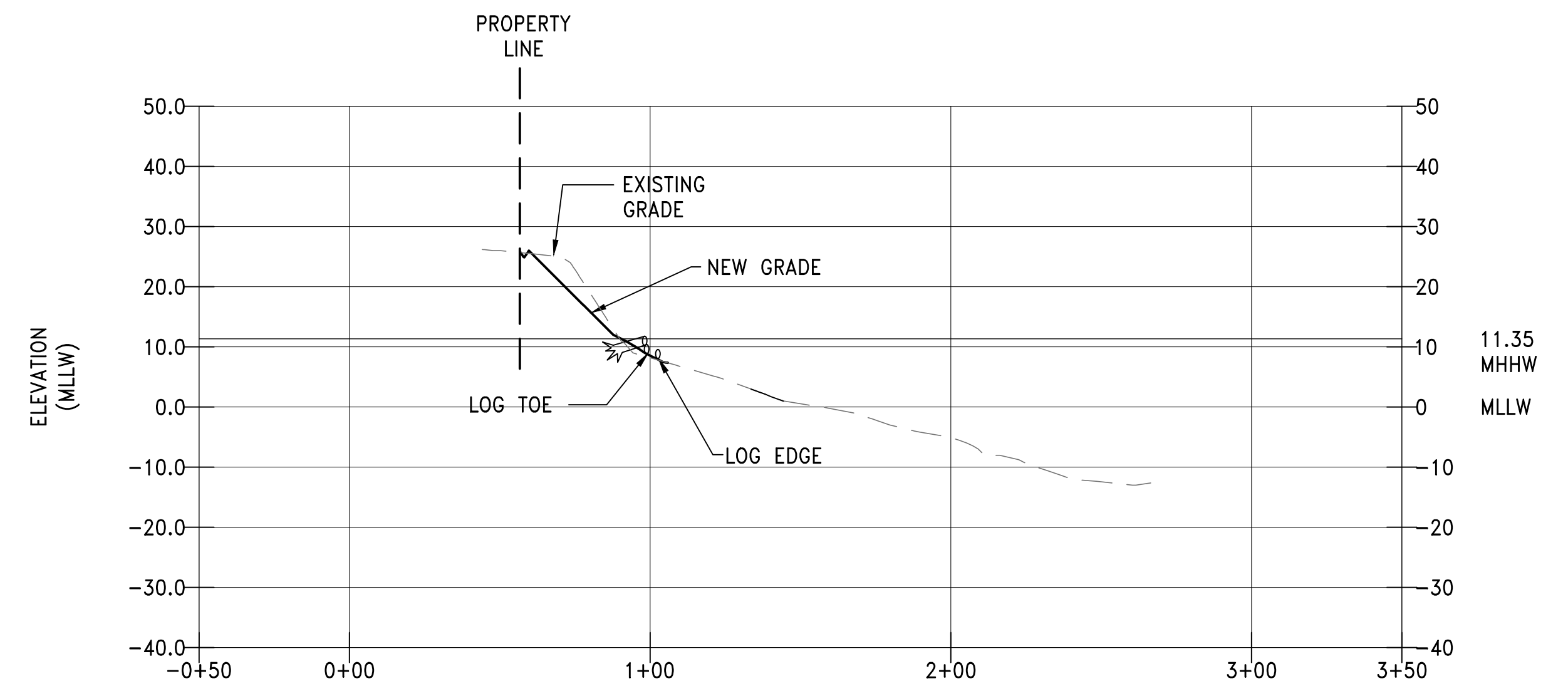
WORK PROJECT NO.
105563
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PORT OF SEATTLE NO.
117-1201 **C6.1**



SECTION 8
 SCALE: 1" = 40' HORIZ
 1" = 20' VERT C5.1

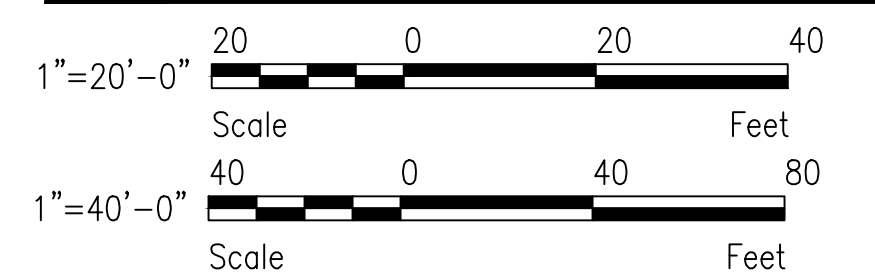


SECTION 9
 SCALE: 1" = 40' HORIZ
 1" = 20' VERT C5.2



SECTION 10
 SCALE: 1" = 40' HORIZ
 1" = 20' VERT C5.3

GRAPHIC SCALES

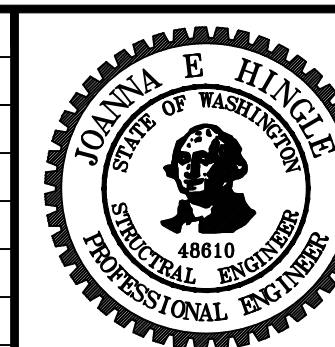


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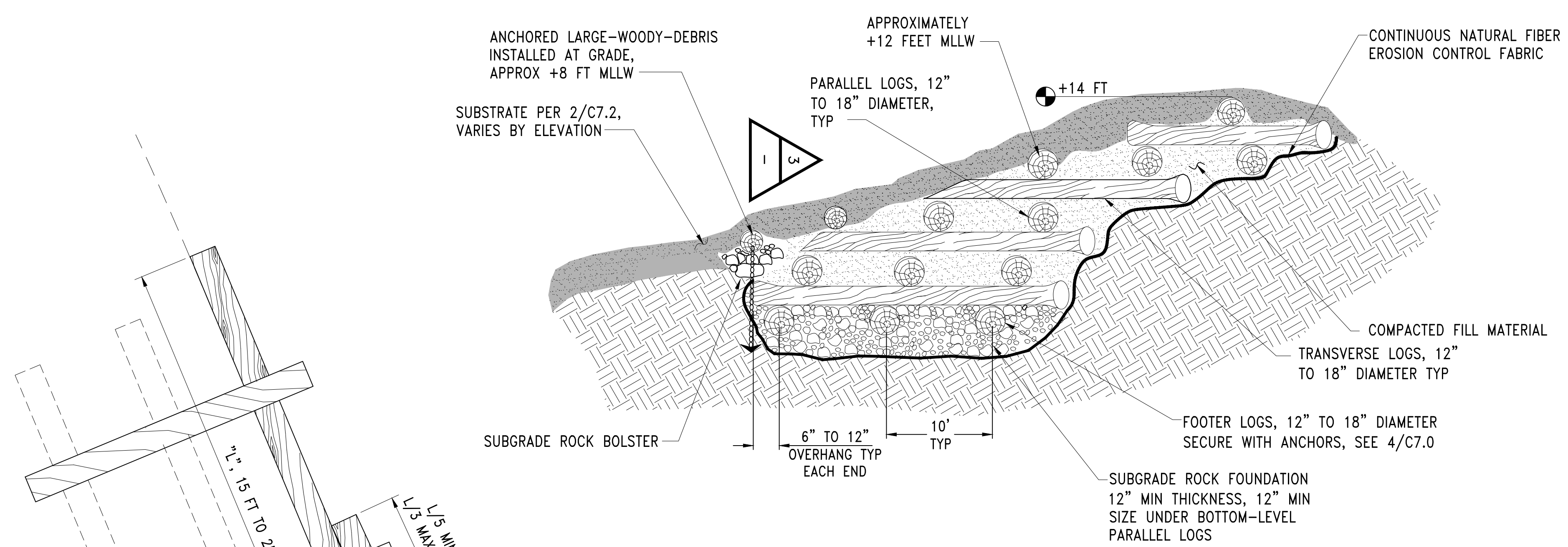


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Port of Seattle MARITIME DIVISION
PROJECT: **SITE 23 & 25 RESTORATION**
SHEET TITLE: **HABITAT SECTIONS SHEET 3**

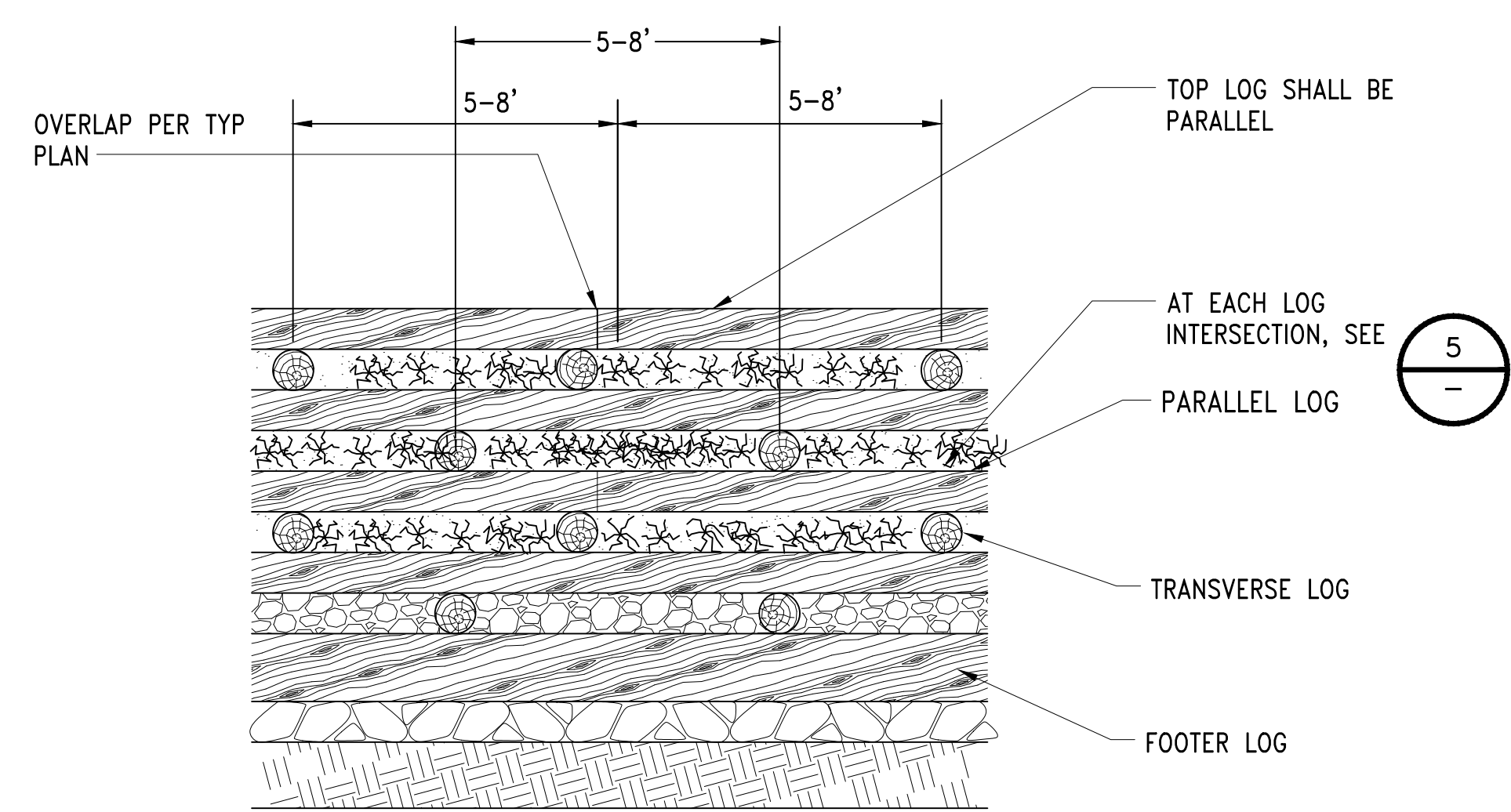
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CONSULTANT'S NO.
PORT OF SEATTLE NO.
117-1201 **C6.2**

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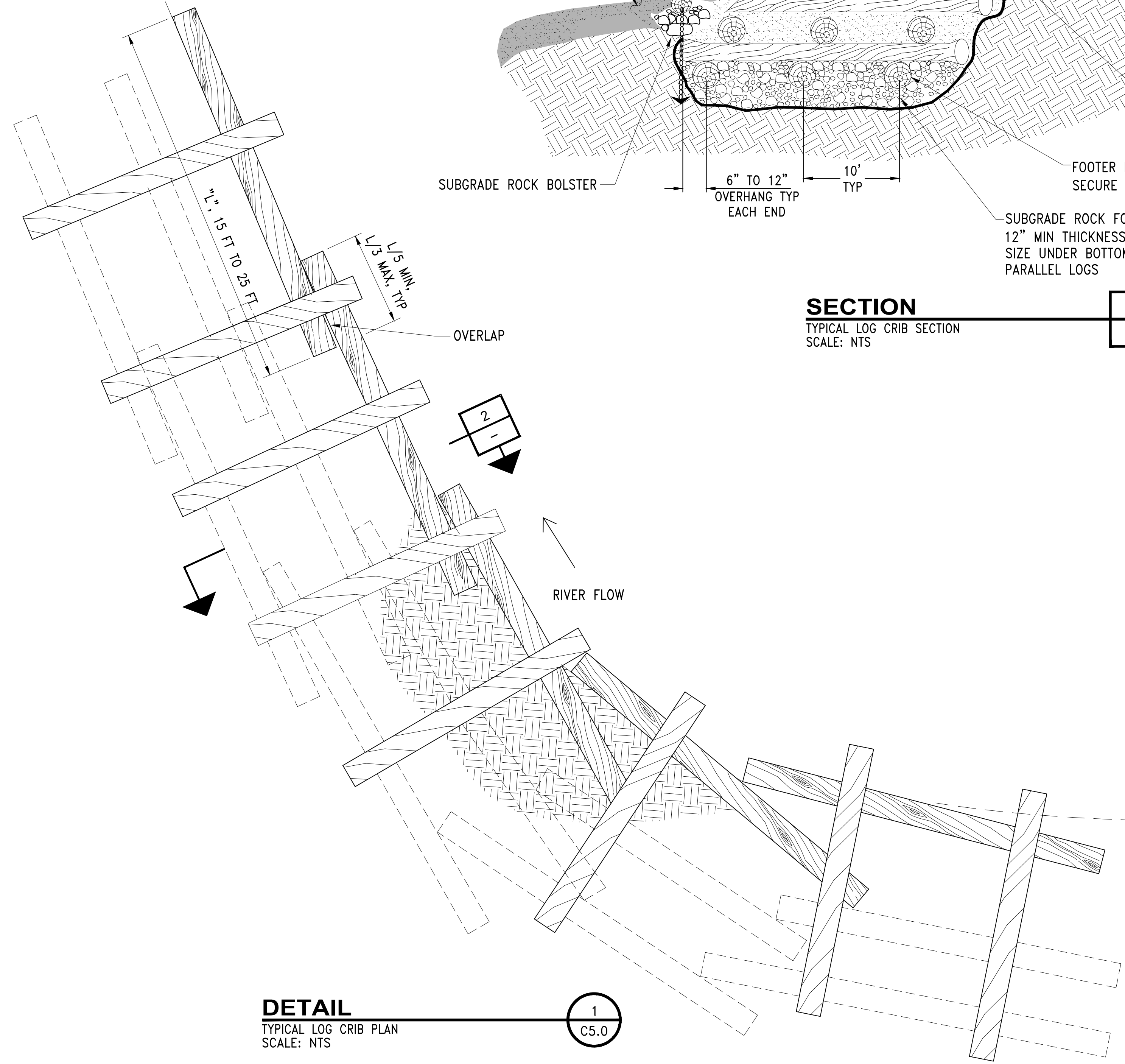
SECTION
 TYPICAL LOG CRIB SECTION
 SCALE: NTS

2
-



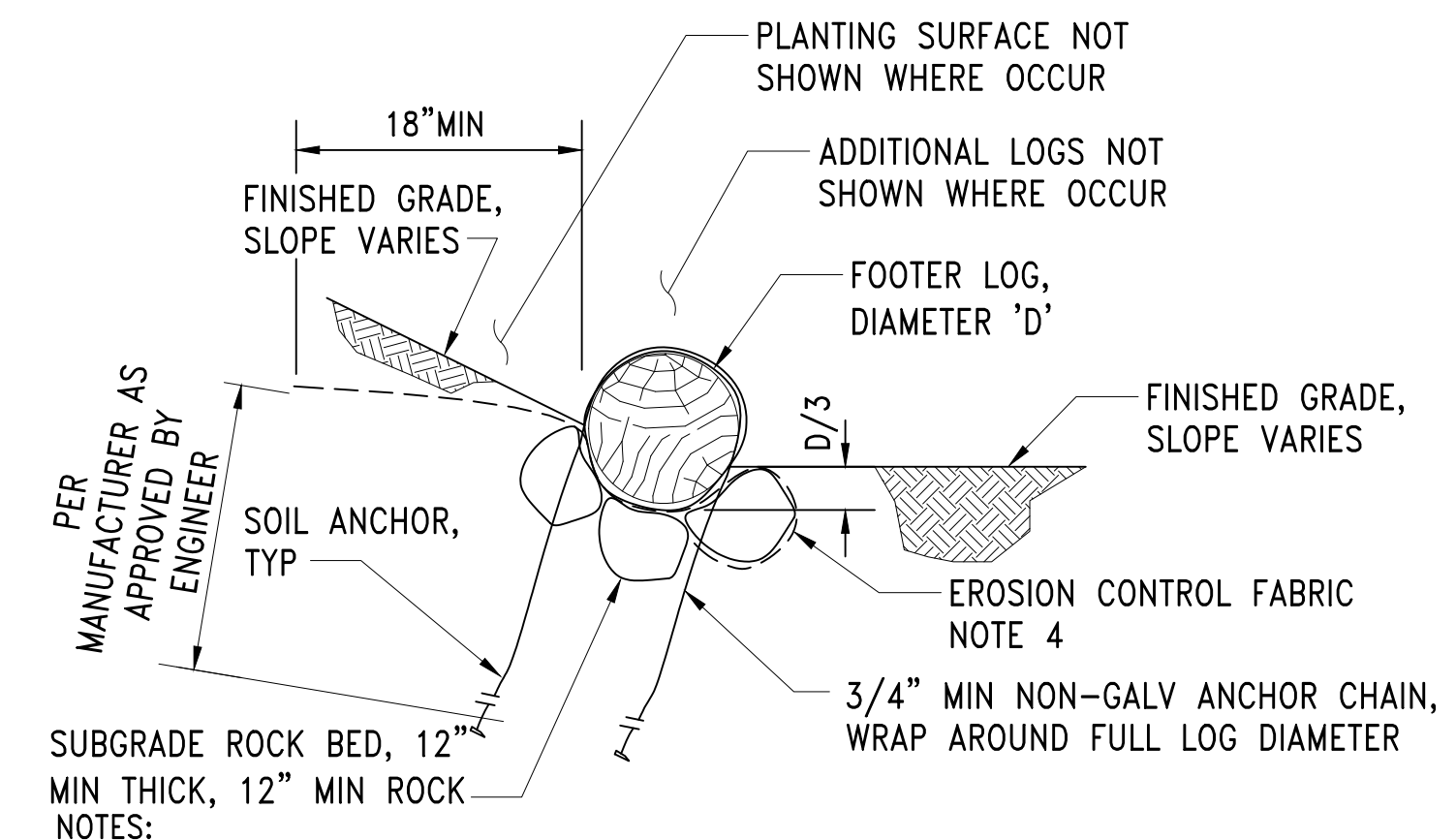
ELEVATION
 TYPICAL LOG CRIB ELEVATION
 SCALE: NTS

3
C7.0



DETAIL
 TYPICAL LOG CRIB PLAN
 SCALE: NTS

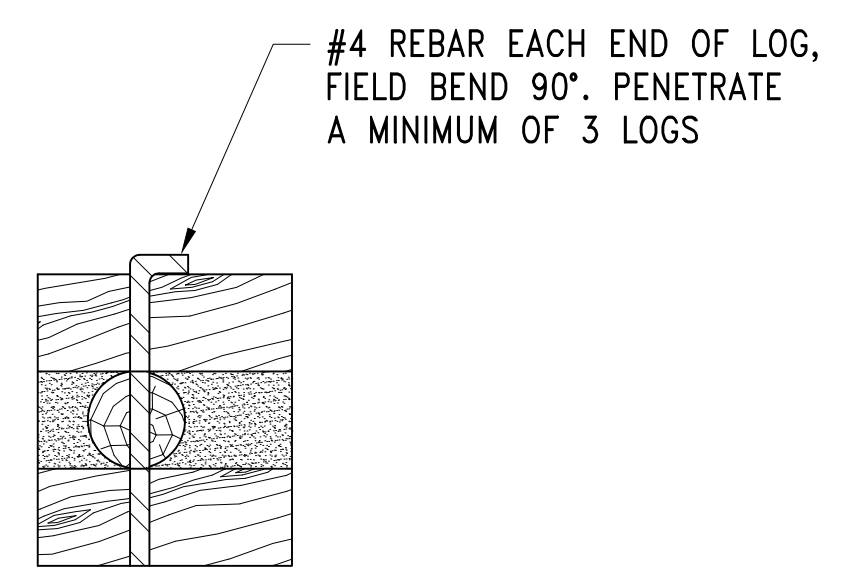
1
C5.0



- NOTES:
1. EACH LOG SHALL HAVE AT LEAST (2) ANCHOR CHAINS.
 2. LOCATE ANCHOR CHAINS 3'-0" FROM END OF LOG.
 3. WHERE NO ADDITIONAL LOGS ARE STACKED ACROSS FOOTER LOG, ADD ANCHOR CHAINS SUCH THAT SPACING DOES NOT EXCEED 12'-0"
 4. PLACE NATURAL FIBER EROSION CONTROL FABRIC UNDER LOG, PINNED IN PLACE AT LOWER EDGE BY SUBGRADE ROCK

DETAIL
 TYPICAL FOOTER LOG
 SCALE: NTS

4	4	4	4	4
C5.0	C5.1	C7.0	C7.1	C7.6



DETAIL
 TYPICAL LOG CRIB CONNECTION
 SCALE: NTS

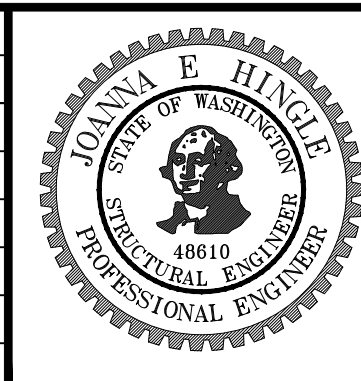
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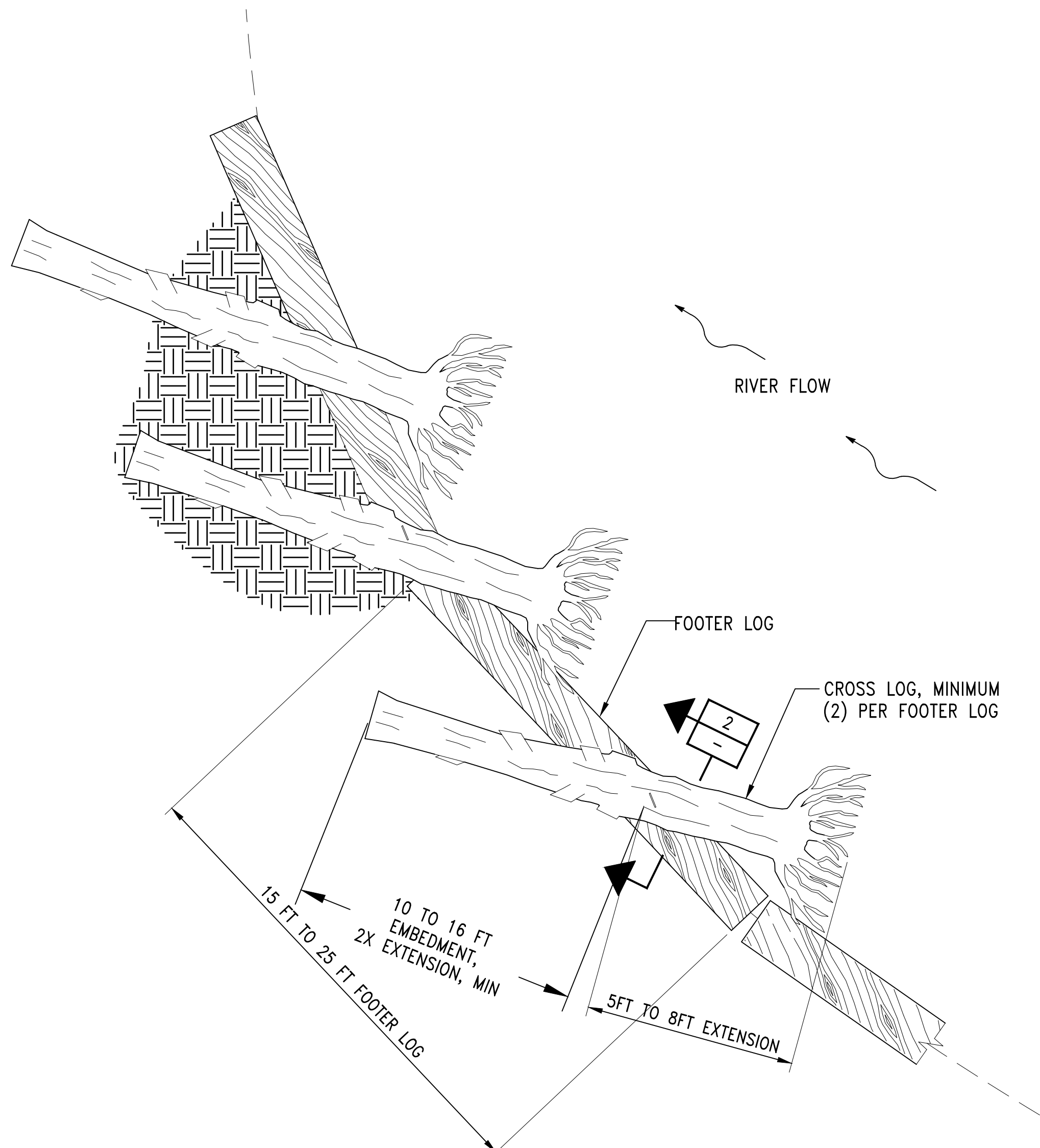
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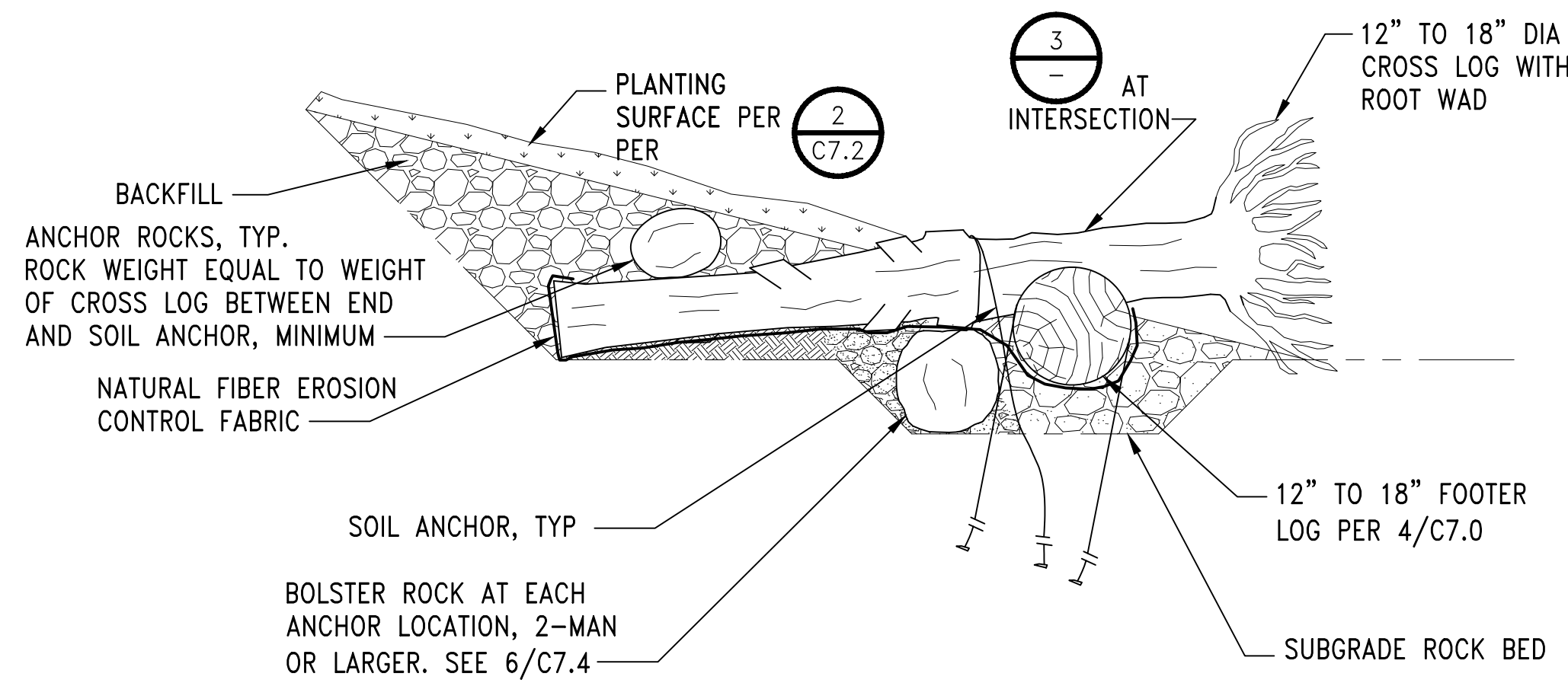
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 JOANNA HINGLE
 DESIGN ENGINEER:
 JOANNA HINGLE
 DRAFTER:
 KEN LANE
 SCALE:
 AS SHOWN
 DATE:
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Port of Seattle MARITIME DIVISION
 PROJECT: SITE 23 & 25 RESTORATION
 SHEET TITLE: HABITAT DETAILS
 SHEET 1

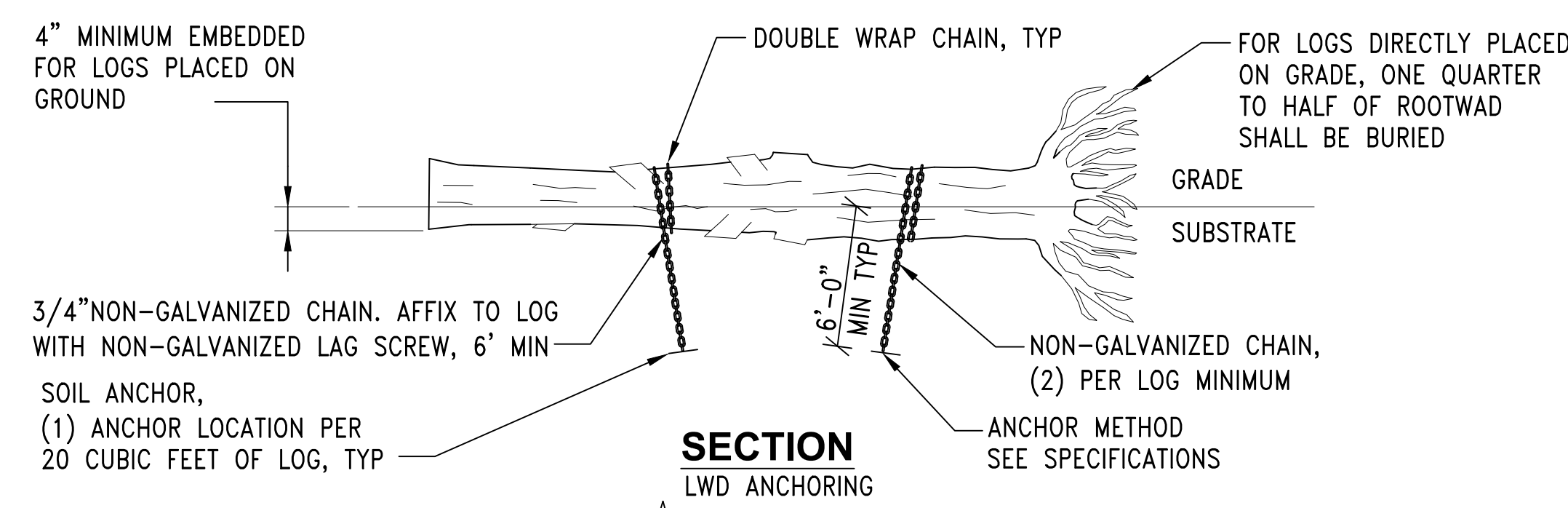
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CONSULTANT'S NO.
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117-1201
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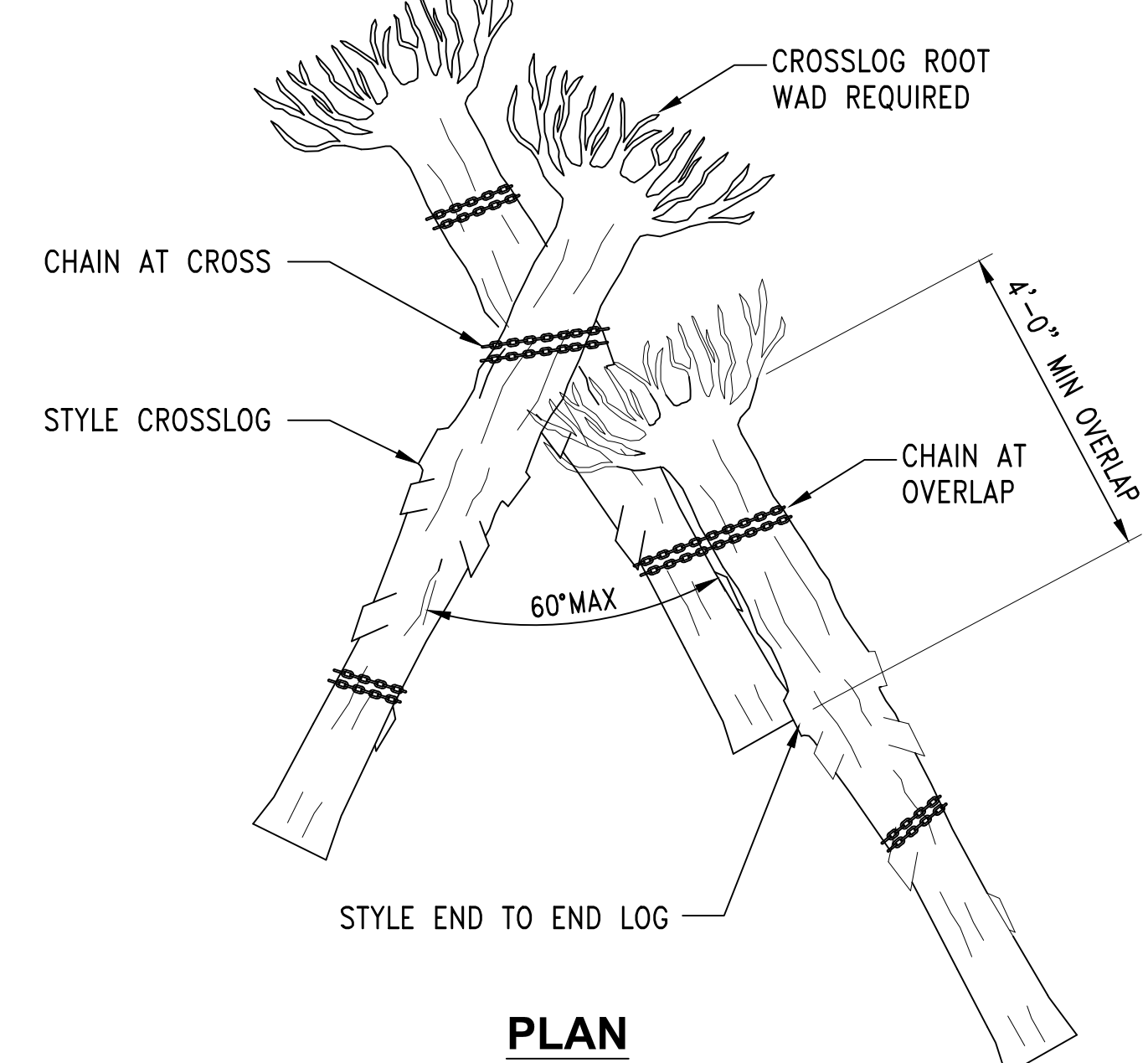
DETAIL
TYPICAL LOG TOE PLAN
SCALE: NTS



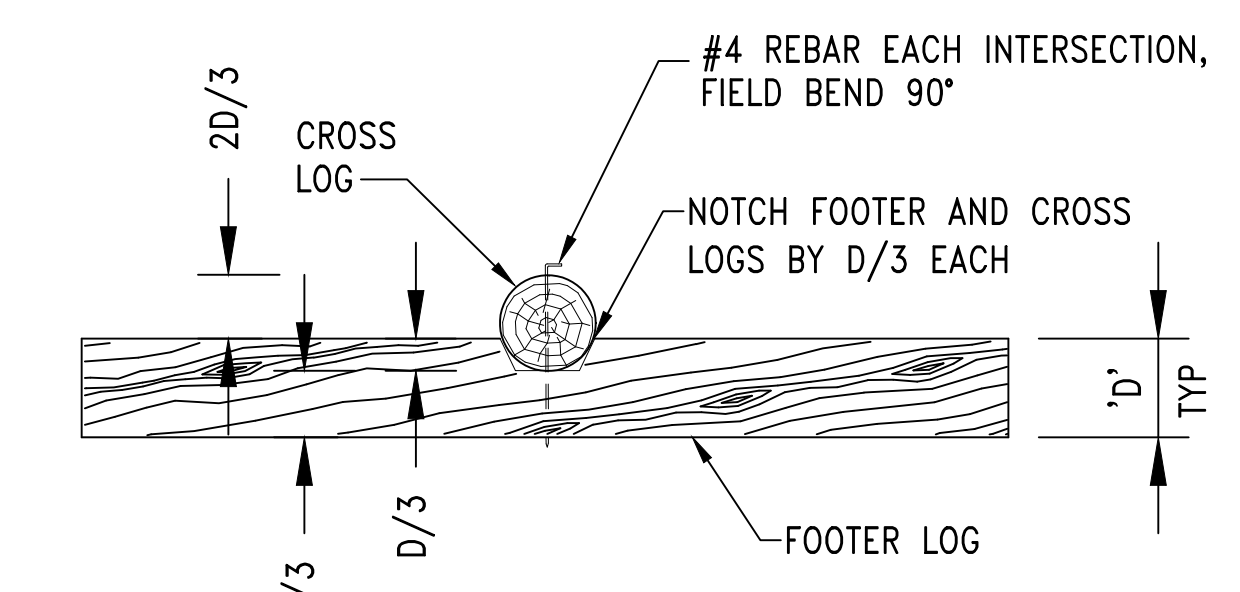
SECTION
TYPICAL LOG TOE SECTION
SCALE: NTS



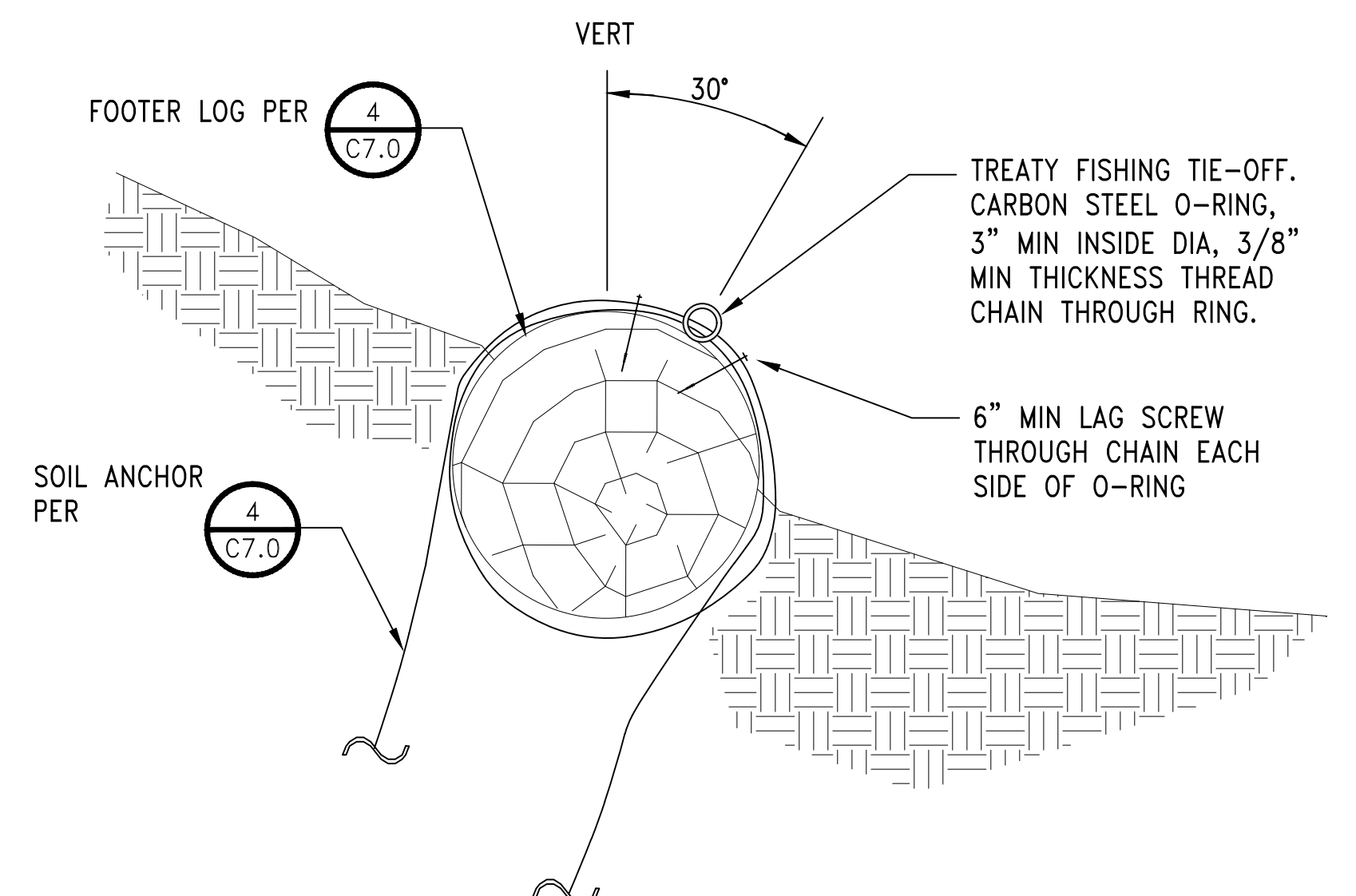
SECTION
LWD ANCHORING



DETAIL
LARGE WOODY DEBRIS
THREE LOG GROUPING
SCALE: NTS



DETAIL
TYPICAL LOG TOE CONNECTION
SCALE: NTS



DETAIL
TYPICAL TREATY FISHING ANCHORAGE
AT LOG TOE
SCALE: NTS

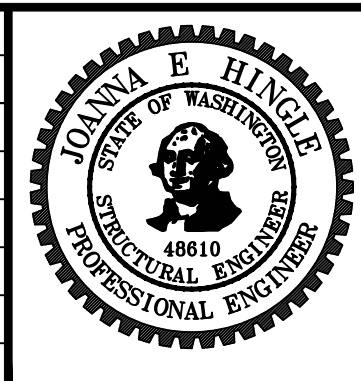
- INSTALLATION NOTES:**
1. EACH INSTALLED LARGE WOODY DEBRIS (LWD) MASS SHALL CONSIST OF THREE LOGS IN THE LOCATIONS INDICATED AND ORIENTED, AS NOTED IN PLAN VIEW.
 2. LWD CAN BE VARIABLE IN LENGTH, WITH A MINIMUM LENGTH OF 12 FEET.
 3. LWD CAN BE VARIABLE IN DIAMETER, WITH A MINIMUM DIAMETER OF 18 INCHES.
 4. LWD SHALL CONSIST OF DOUGLAS FIR OR CEDAR LOGS, OR PORT-PROVIDED MATERIALS.
 5. LWD IN GROUPS OF THREE LOGS SHALL CONTAIN AT LEAST ONE LOG WITH ROOT MASS/ROOT WAD ATTACHED.
 6. TWO LOGS SHALL BE PLACED AT SUBSTRATE LEVEL END-TO-END, WITH SIDE-BY-SIDE OVERLAP.
 7. LWD INSTALLATION LOCATIONS WILL BE STAKED IN THE FIELD BY THE ENGINEER.
 8. LWD SHALL BE INSTALLED DURING LOW TIDE PERIODS.

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PROJECT ENGINEER:
JOANNA HINGLE
DESIGN ENGINEER:
JOANNA HINGLE
DRAFTER:
KEN LANE
SCALE:
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Port of Seattle MARITIME DIVISION
PROJECT: **SITE 23 & 25 RESTORATION**
SHEET TITLE: **HABITAT DETAILS SHEET 2**

WORK PROJECT NO.	105563
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PORT OF SEATTLE NO.	117-1201
C7.1	

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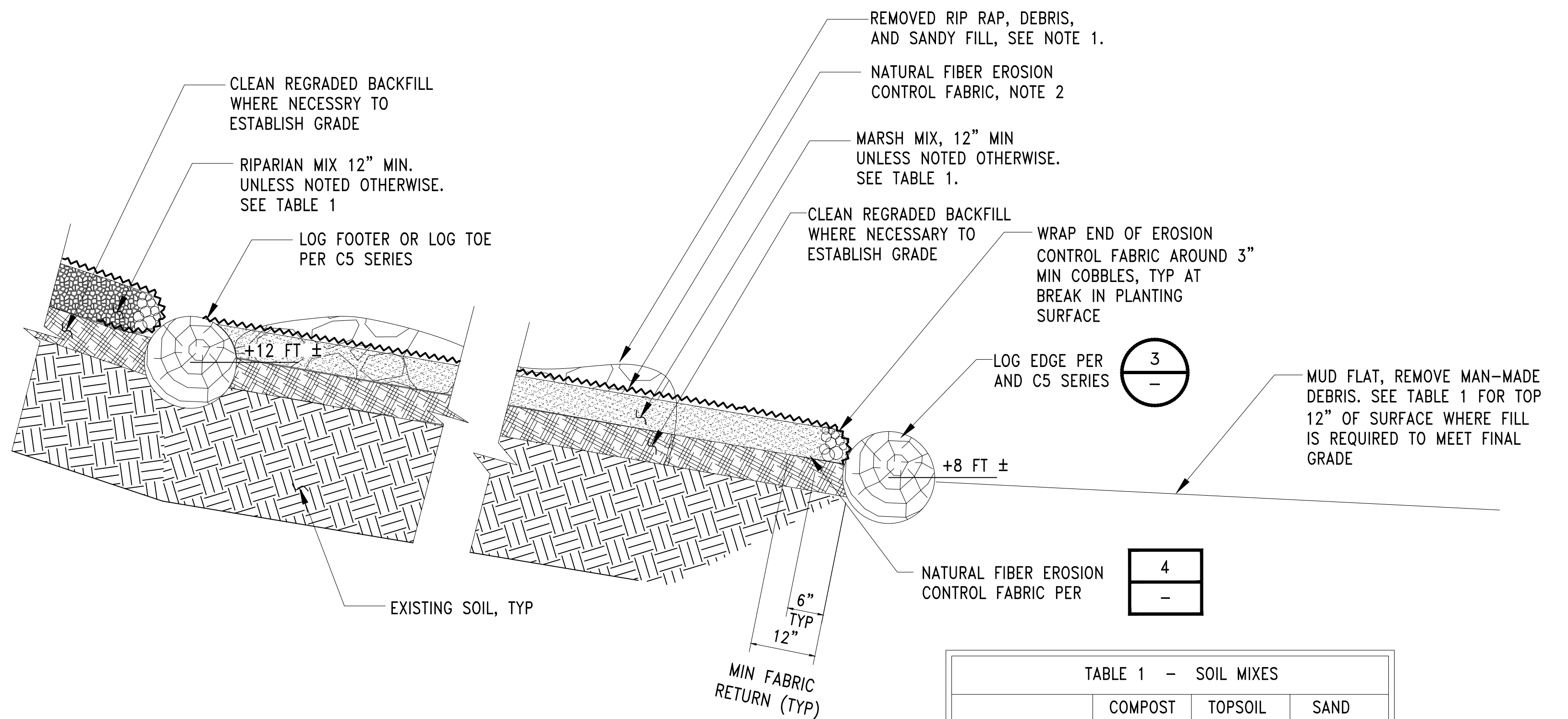
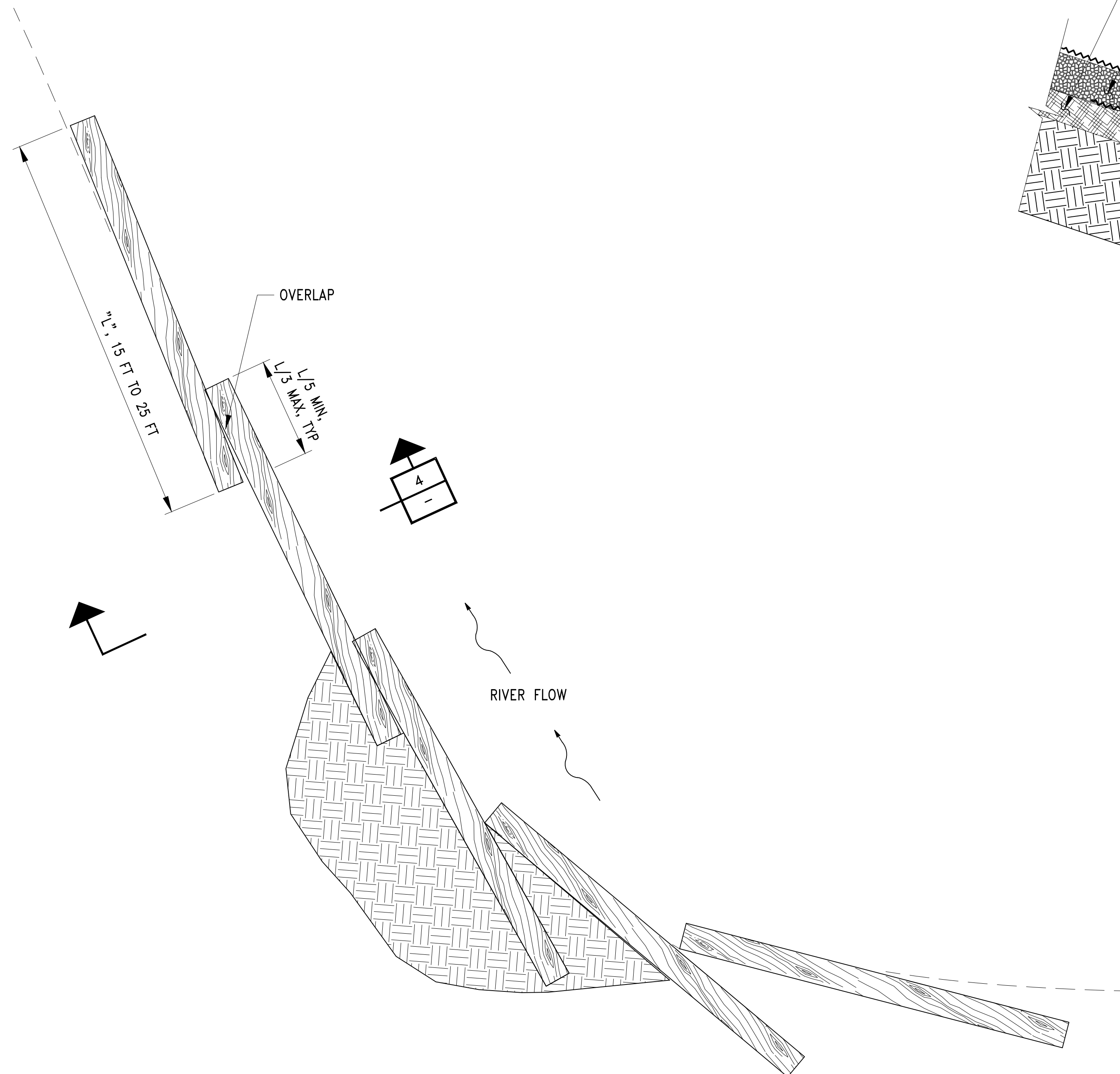
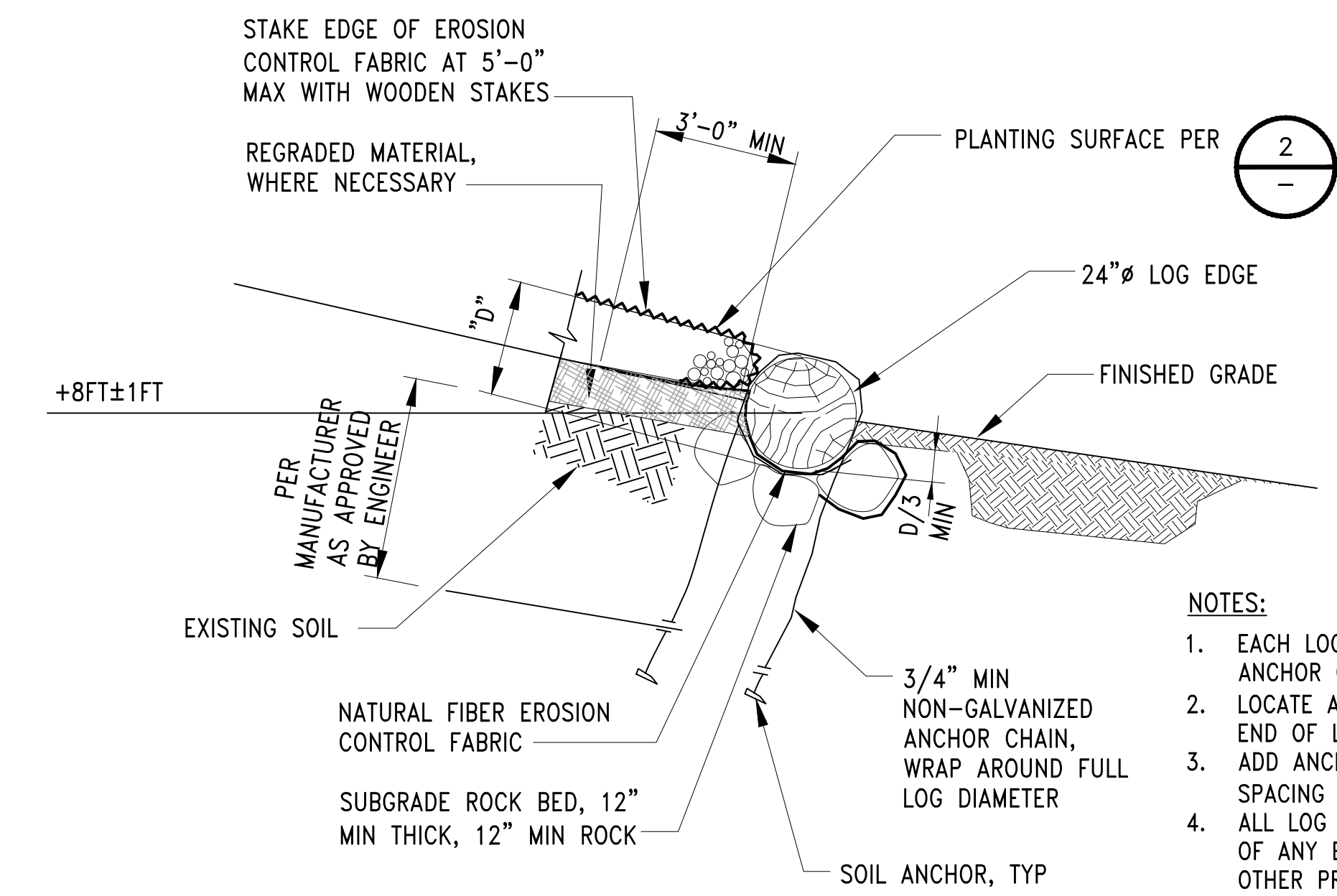


TABLE 1 - SOIL MIXES

	COMPOST	TOPSOIL	SAND
RIPARIAN	50%	50%	0%
MARSH	37.5%	37.5%	25%
MUDFLAT	0%	50%	50%

- NOTES:
- WHERE EXISTING TOP OF RIP RAP ELEVATION IS LOW ENOUGH THAT MINIMUM PLANTING SURFACE THICKNESS AND FINAL GRADE CAN BE MET WITHOUT REMOVAL OF RIP RAP, RIP RAP CAP MAY BE LEFT IN PLACE.
 - STAKE NATURAL FABRIC EROSION CONTROL FABRIC IN PLACE AT NOT MORE THAN 5'-0" ON CENTER EACH DIRECTION WITH WOODEN STAKES.

DETAIL
TYPICAL PLANTING SURFACE
SCALE: NTS



- NOTES:
- EACH LOG SHALL HAVE AT LEAST (2) ANCHOR CHAINS.
 - LOCATE ANCHOR CHAINS 3'-0" FROM END OF LOG.
 - ADD ANCHOR CHAINS SUCH THAT SPACING DOES NOT EXCEED 12'-0"
 - ALL LOG EDGES SHALL BE SMOOTHED OF ANY BRANCHES, ROOTS, AND OTHER PROTRUSIONS.

SECTION
TYPICAL LOG EDGE
SCALE: NTS

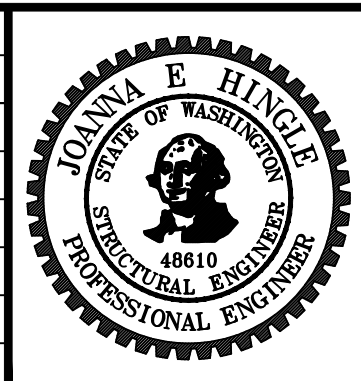
DETAIL
TYPICAL LOG EDGE PLAN
SCALE: NTS

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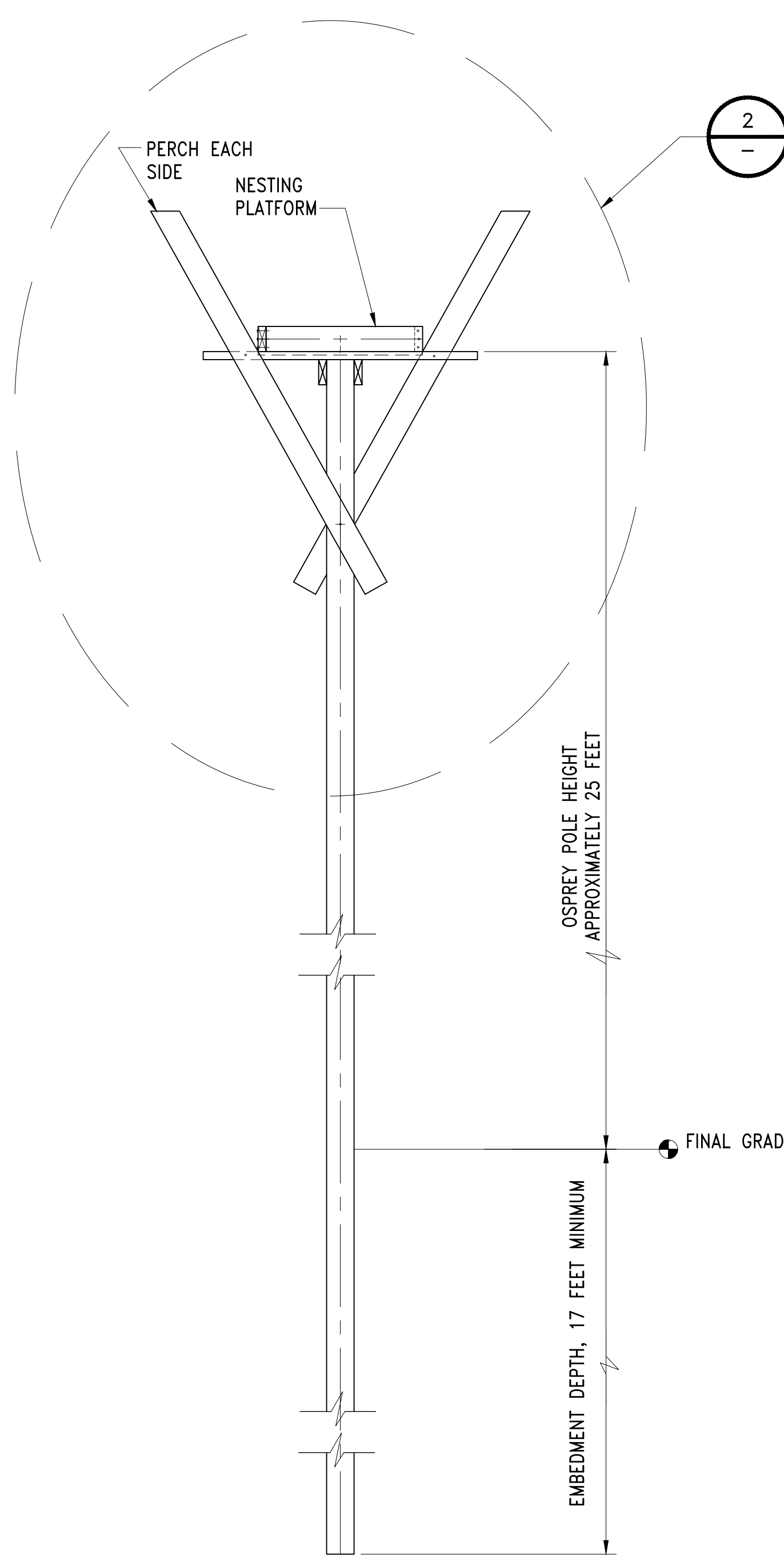


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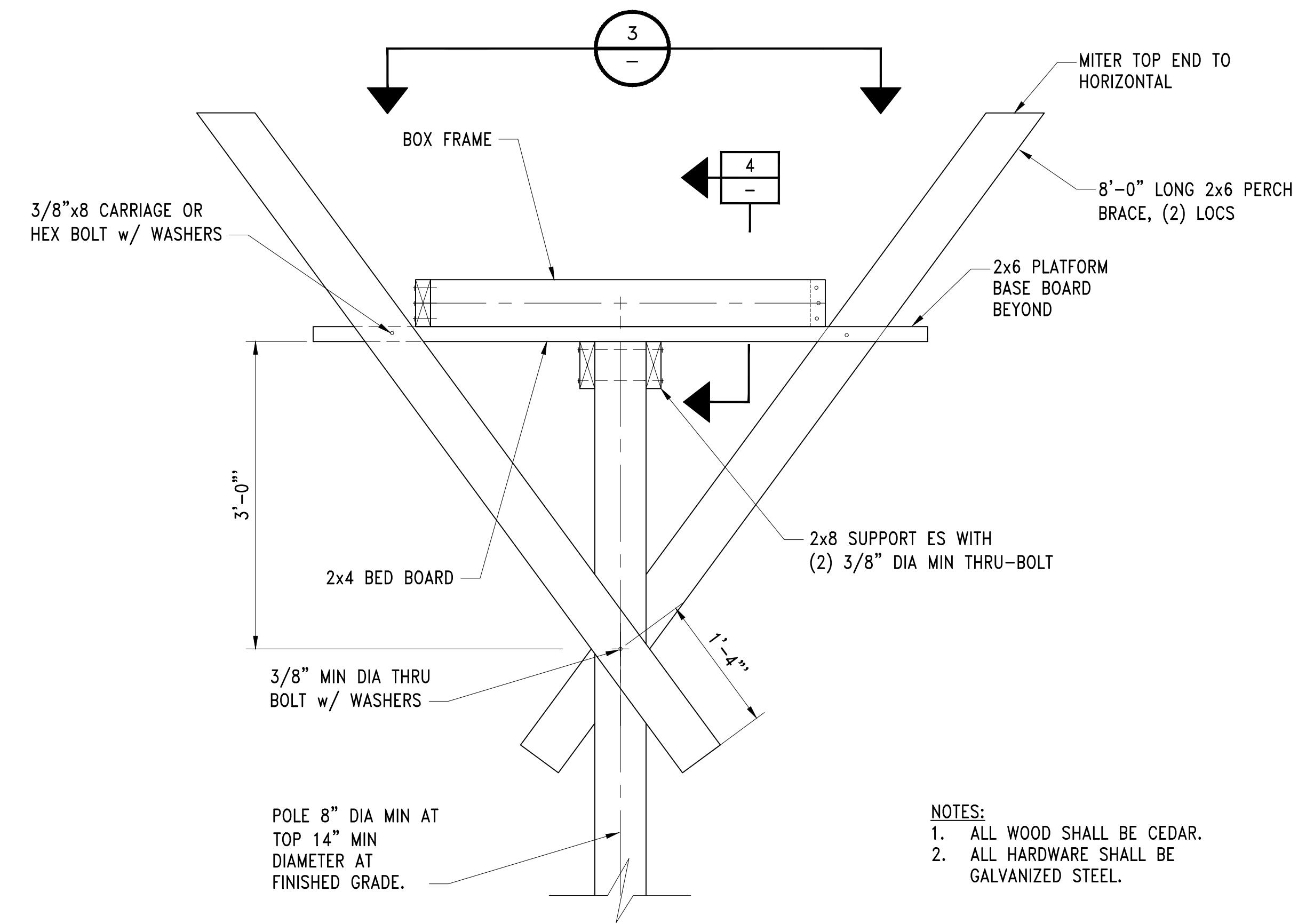
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SHEET TITLE: HABITAT DETAILS SHEET 3

WORK PROJECT NO.: 105563
CONSULTANT'S NO.:
PORT OF SEATTLE NO.: 117-1201
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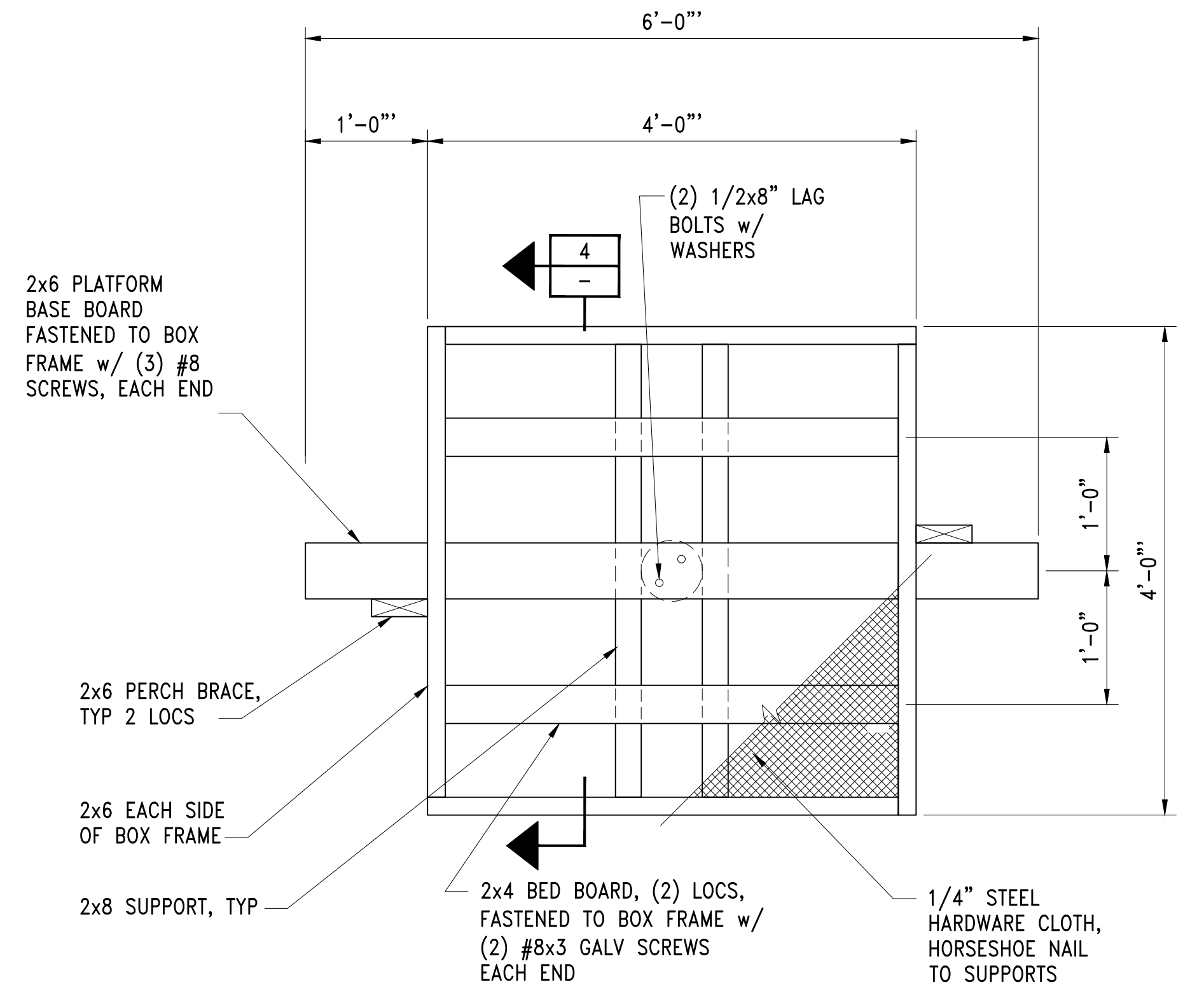
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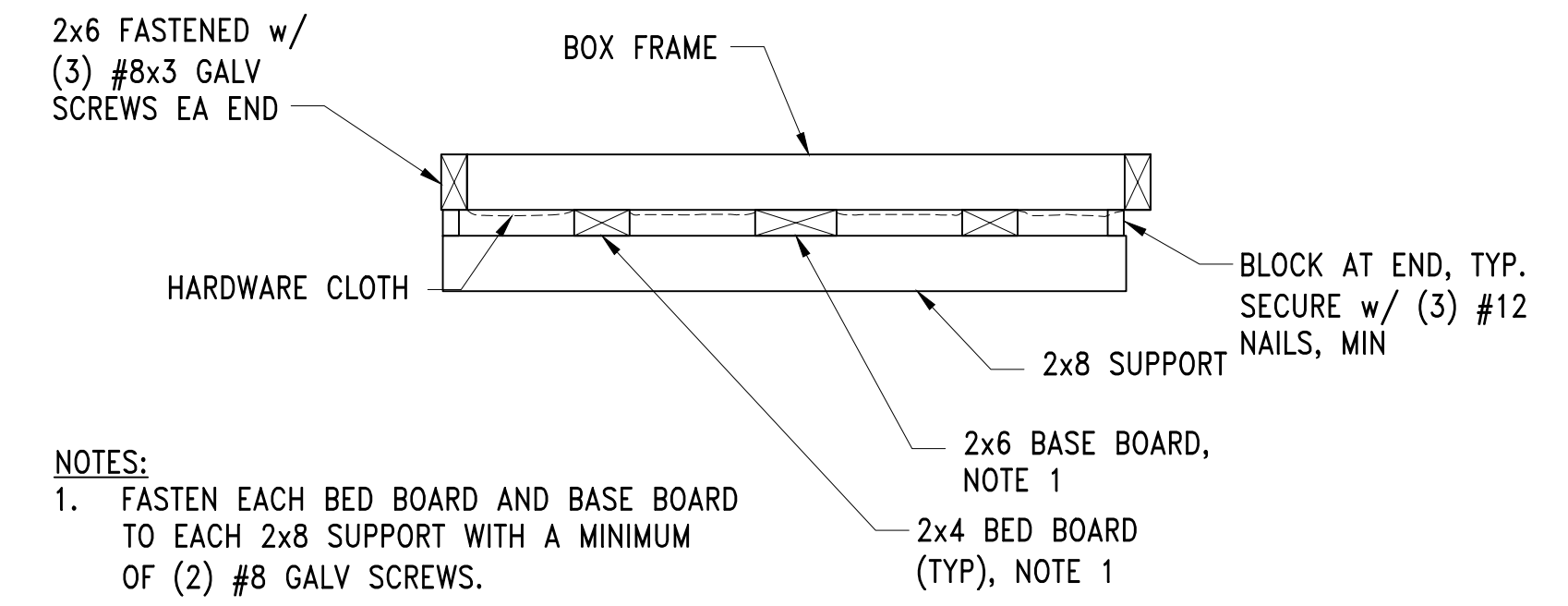
DETAIL
TYPICAL OSPREY PLATFORM
NESTING PLATFORM
SCALE: 1/2" = 1'-0"
1
C5.1



DETAIL
TYPICAL OSPREY PLATFORM
NESTING PLATFORM
SCALE: 1" = 1'-0"
2



DETAIL
TYPICAL OSPREY PLATFORM
NESTING PLATFORM
SCALE: 1" = 1'-0"
3



SECTION
TYPICAL OSPREY PLATFORM
NESTING PLATFORM
SCALE: 1" = 1'-0"
4

NOTES:
1. FASTEN EACH BED BOARD AND BASE BOARD TO EACH 2x8 SUPPORT WITH A MINIMUM OF (2) #8 GALV SCREWS.

NOTES:
1. ALL WOOD SHALL BE CEDAR.
2. ALL HARDWARE SHALL BE GALVANIZED STEEL.

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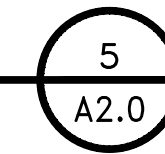
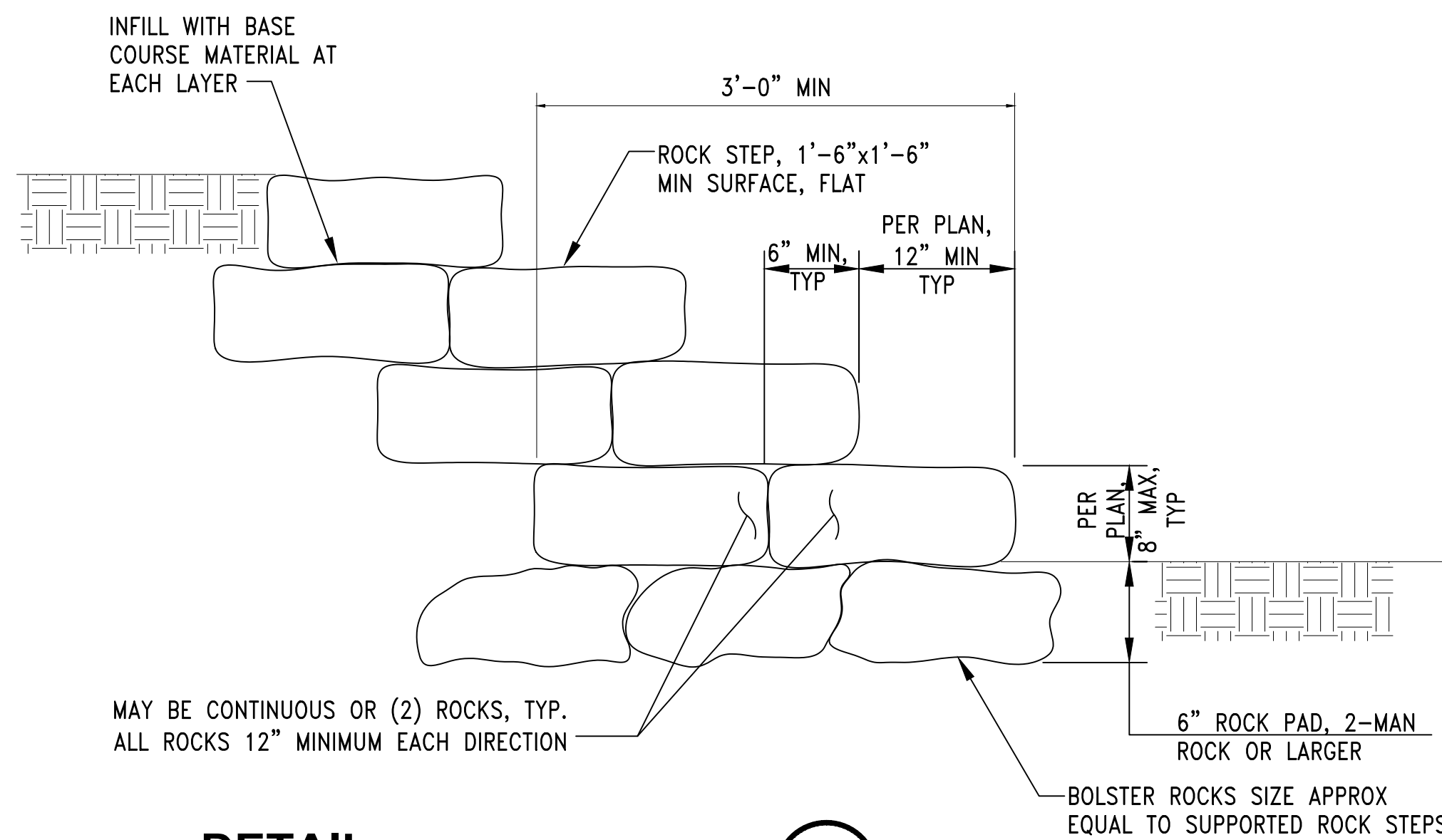
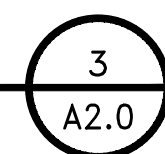
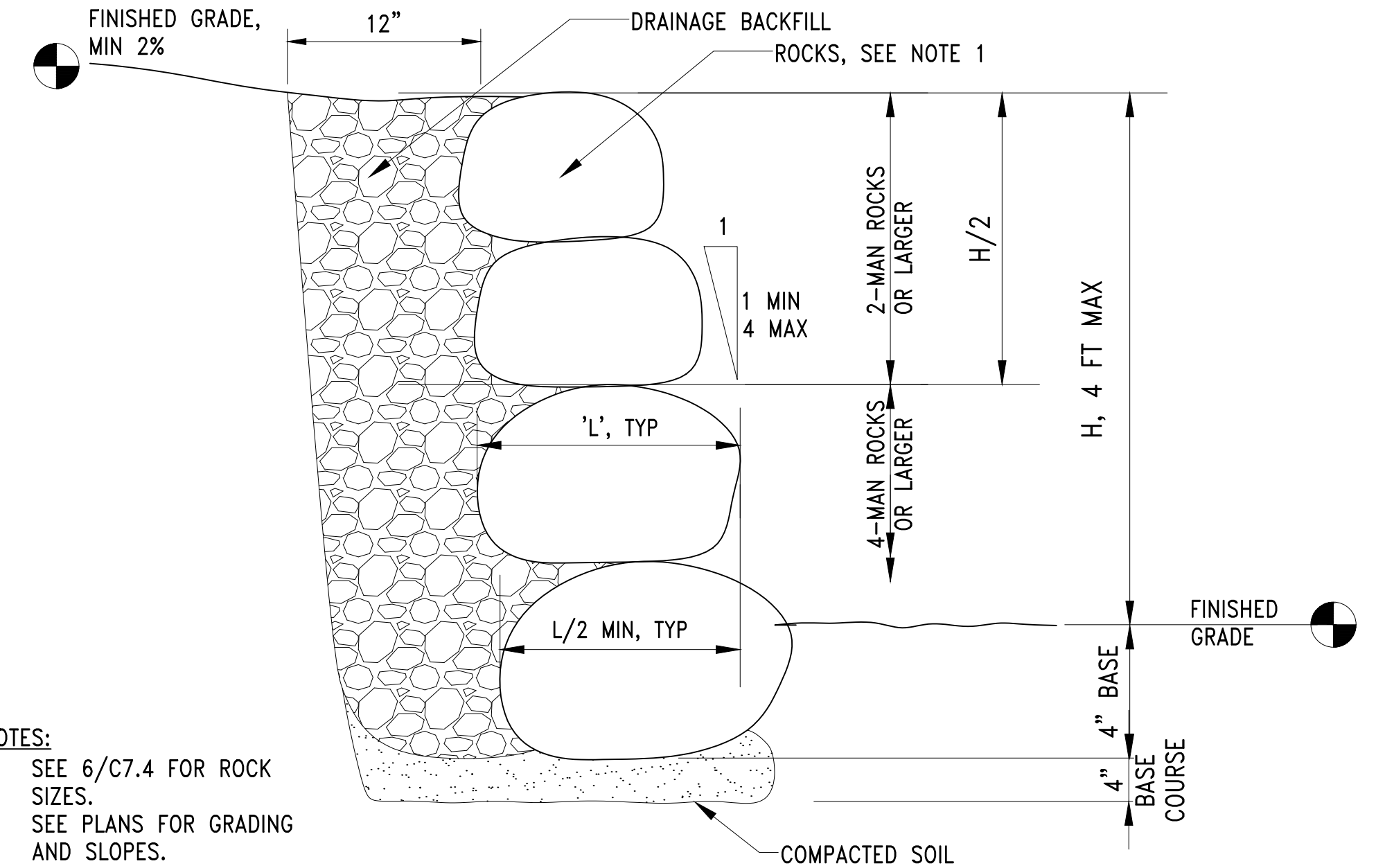
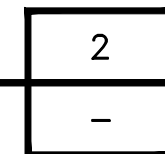
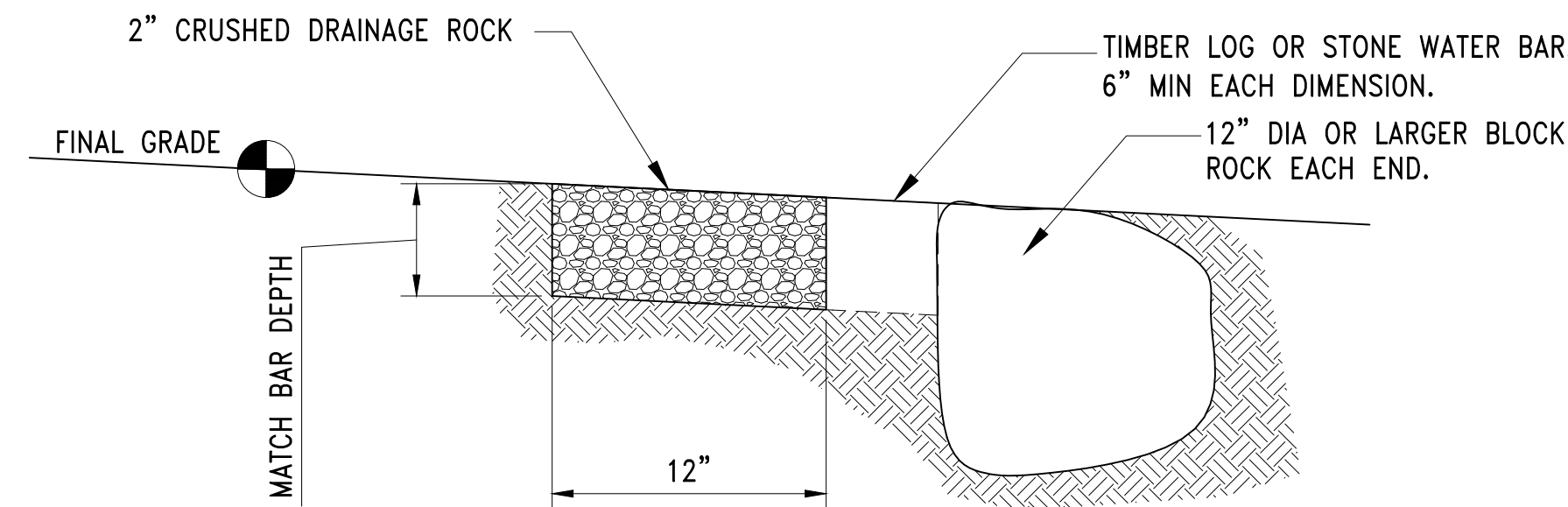
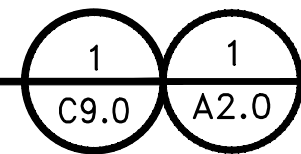
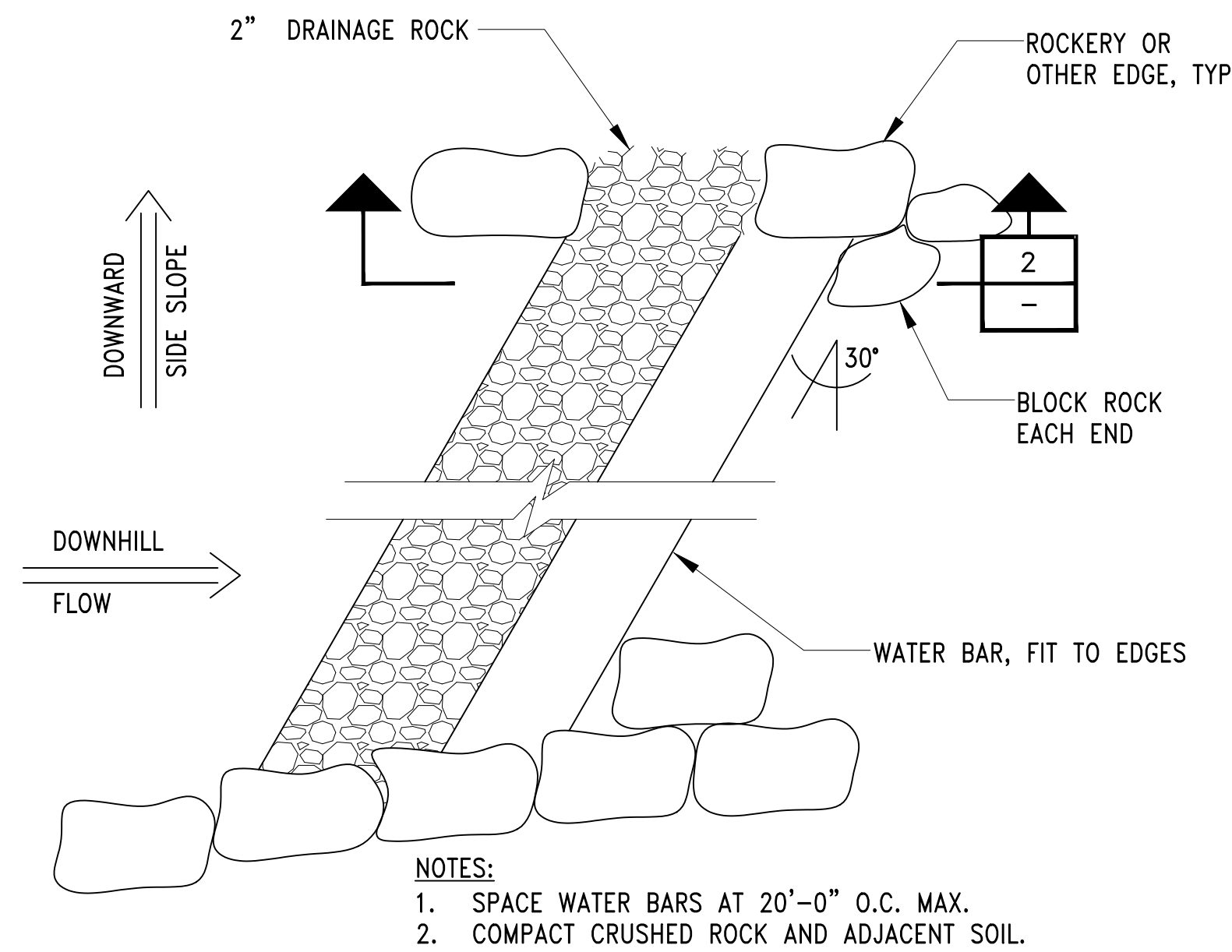


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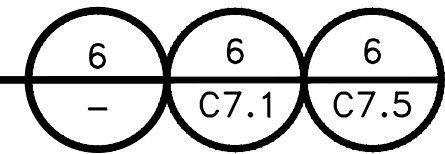
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PROJECT: SITE 23 & 25 RESTORATION
SHEET TITLE: HABITAT DETAILS SHEET 4

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117-1201 **C7.3**

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APPROXIMATE ROCK SIZE		
SIZE	WEIGHT (LBS)	VOLUME (FT ³)
1-MAN	58- 240	0.4 - 1.5
2-MAN	240- 670	1.5 - 4.1
3-MAN	670-2420	4.1 -14.8
4-MAN	2420-4500	14.8 -27.6
5-MAN	4500-6000	27.6 -36.8
6-MAN	6000-8000	36.8 -49.0

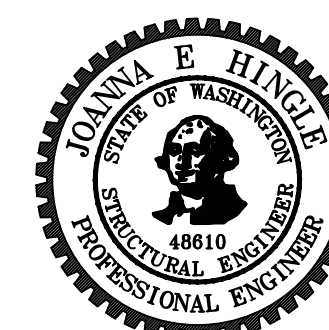


NOT FOR CONSTRUCTION

CALL 2 DAYS BEFORE YOU DIG
1-800-424-5555

PROJECT ENGR./ARCH:
DESIGNER:
DRAWN BY:
SCALE:
DATE:
CHECKED BY:
CHECKED/APPROVED BY:

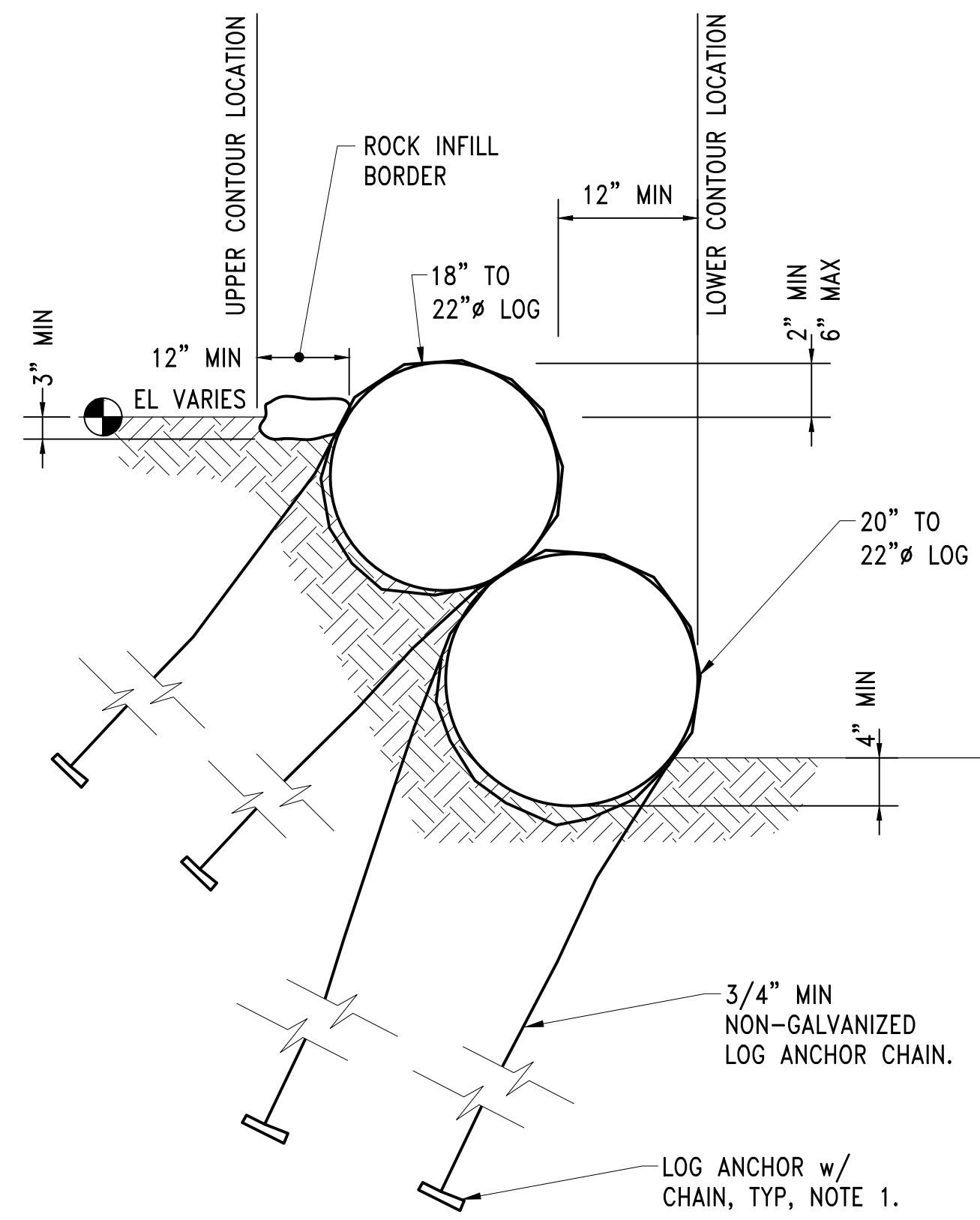
REVISIONS							
NO.	DATE	BY	DESCRIPTION	APP'D	NO.	DATE	BY
1	5/11/17		ISSUED FOR BID				



PROJECT MANAGER:
TICSON MACH
PROJECT ENGINEER:
JOANNA HINGLE
DESIGN ENGINEER:
JOANNA HINGLE
DRAFTER:
KEN LANE
SCALE:
AS SHOWN
DATE:
5/11/2017
CHECKED/APPROVED BY:

Port of Seattle MARITIME DIVISION
PROJECT: SITE 23 & 25 RESTORATION
SHEET TITLE: HABITAT DETAILS SHEET 5

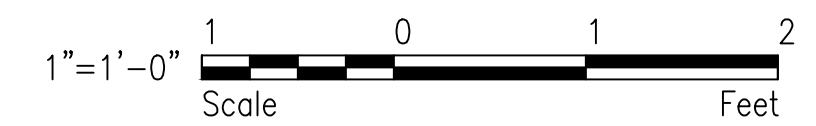
WORK PROJECT NO.
105563
CONSULTANT'S NO.
PORT OF SEATTLE NO.
117-1201 **C7.4**



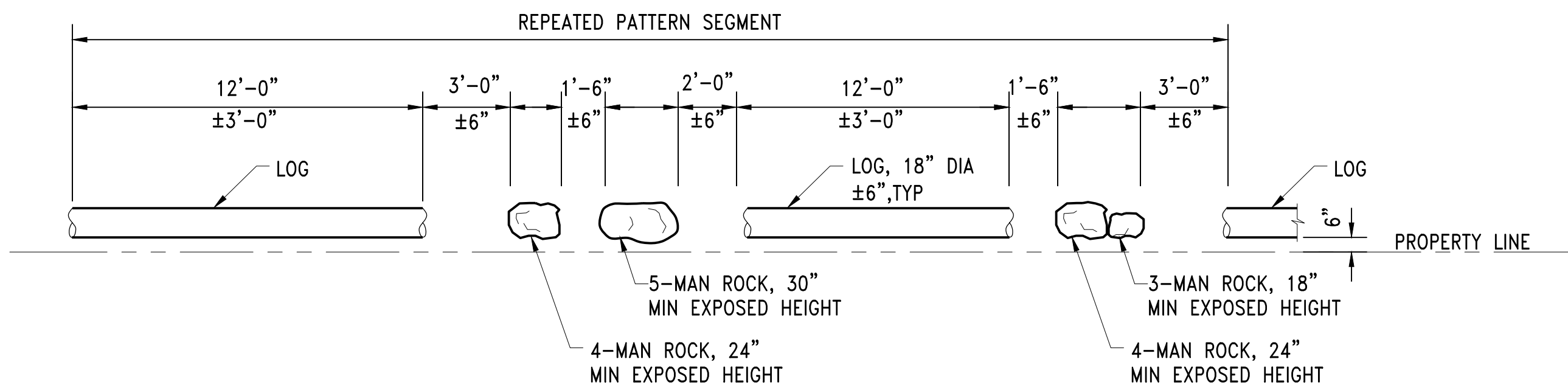
- NOTES:**
1. PROVIDE CHAINS AND ANCHORS WHEN CENTERLINE OF LOG IS AT ELEVATION +12.5 FT OR LOWER. PROVIDE FULL WRAP AROUND LOG.

DETAIL

LOG SEAT
SCALE: 1"=1'-0"



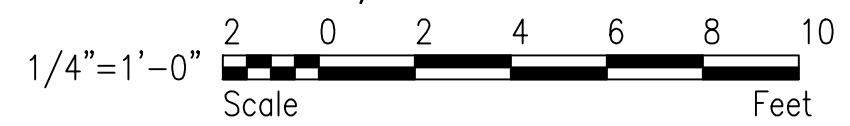
1
A2.0



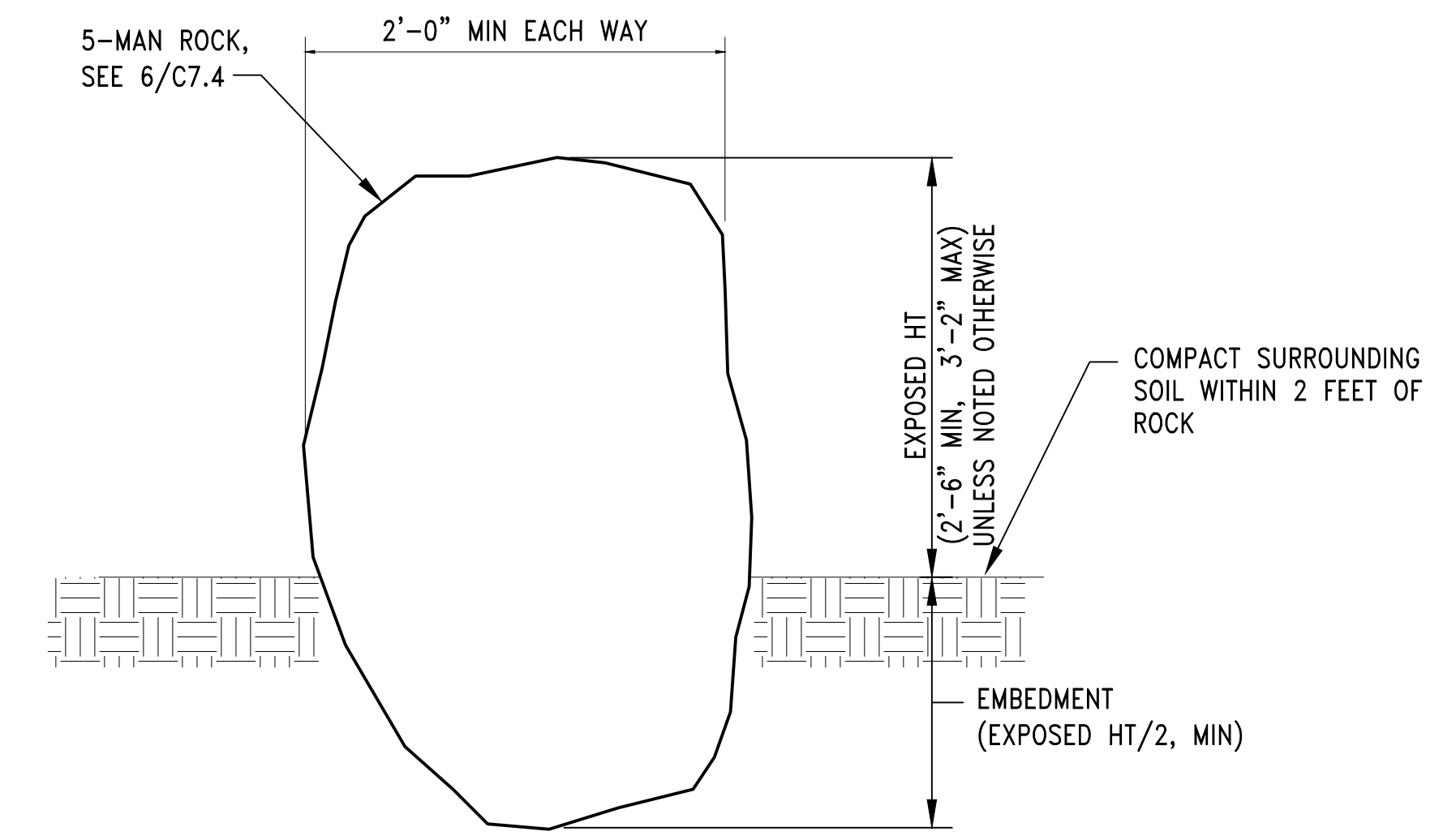
- NOTES:**
1. AVERAGE SPACING SHALL MATCH THAT NOTED. SPACING TOLERANCES MAY BE USED TO ACHIEVE SOME NATURAL VARIATION.
 2. PATTERN IN DETAIL SHALL GENERALLY BE AS SHOWN ON PLANS.
 3. EMBED ALL ROCKS AND LOGS 4" MINIMUM INTO GROUND SUBSTRATE. EMBED ROCKS THAT ARE 3-MAN AND LARGER PER 3/C7.5 SIM.
 4. SEE 6/C7.4 FOR ROCK SIZES.

PLAN

TYPICAL PROPERTY BOUNDARY NATURAL BARRIER
SCALE: 1/4"=1'-0"



2 2
C5.0 C5.1



DETAIL

TYPICAL 5-MAN ROCK EMBEDMENT
SCALE: NTS

3
-

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PROJECT ENGR./ARCH:
DESIGNER:
DRAWN BY:
SCALE:
DATE:
CHECKED BY:
CHECKED/APPROVED BY:

REVISIONS							
NO.	DATE	BY	DESCRIPTION	APP'D	NO.	DATE	BY
1	5/11/17		ISSUED FOR BID				

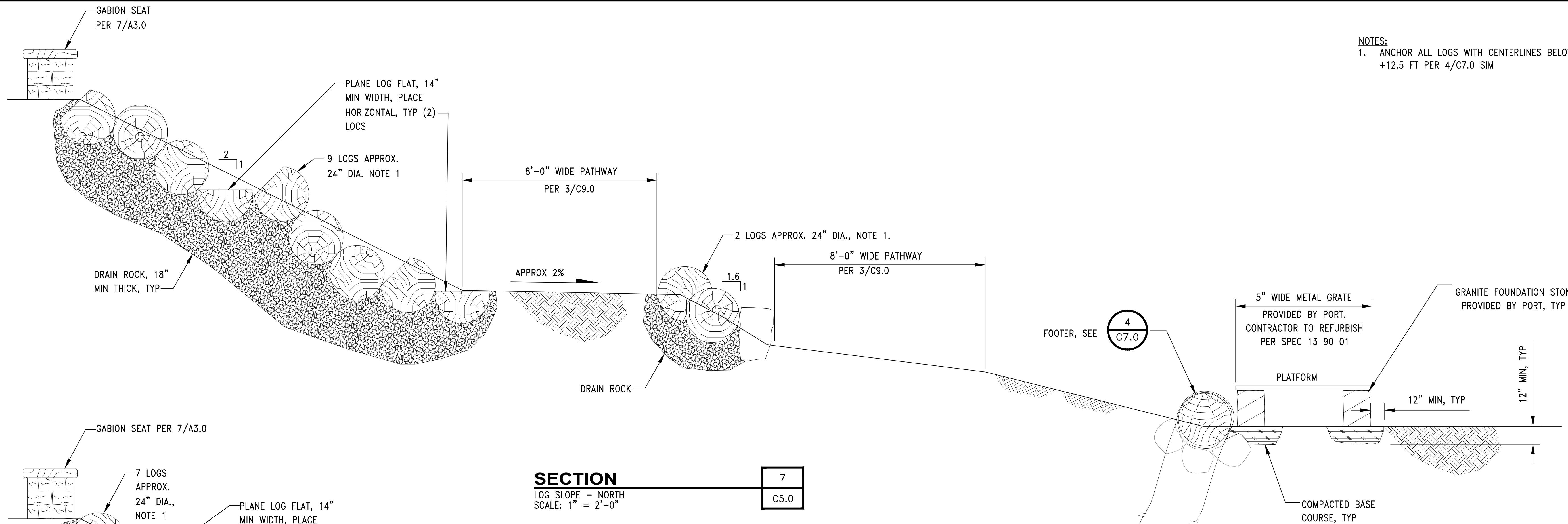


PROJECT MANAGER:
TICSON MACH
PROJECT ENGINEER:
JOANNA HINGLE
DESIGN ENGINEER:
JOANNA HINGLE
DRAFTER:
KEN LANE
SCALE:
AS SHOWN
DATE:
5/11/2017
CHECKED/APPROVED BY:

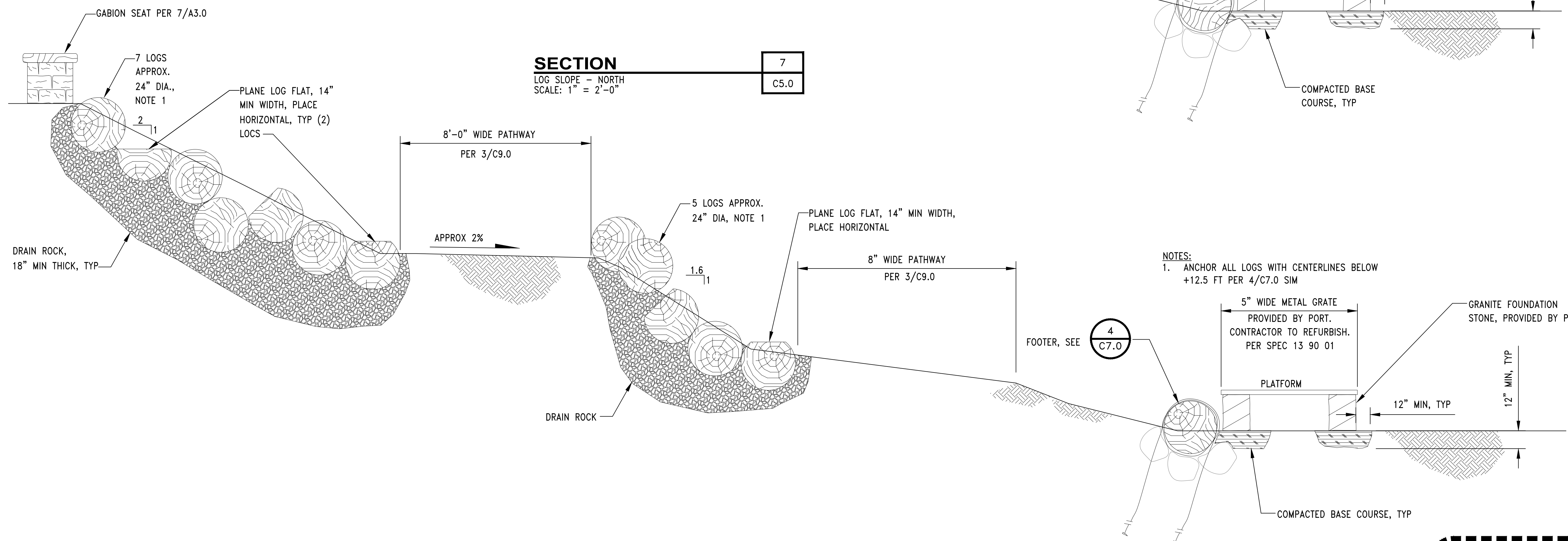
Port of Seattle MARITIME DIVISION
PROJECT: SITE 23 & 25 RESTORATION
SHEET TITLE: HABITAT DETAILS SHEET 6

WORK PROJECT NO.
105563
CONSULTANT'S NO.
PORT OF SEATTLE NO.
117-1201 **C7.5**

FY17\2012\117 Restoration - 103944\Design-Civil\1171201C007_6.dwg, 10/10/2017 11:36:49 AM, kcl



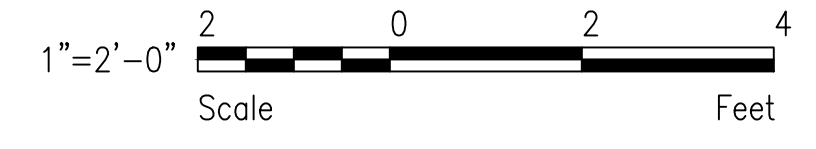
NOTES:
1. ANCHOR ALL LOGS WITH CENTERLINES BELOW +12.5 FT PER 4/C7.0 SIM



SECTION 7
LOG SLOPE - NORTH
SCALE: 1" = 2'-0"

SECTION 8
LOG SLOPE - SOUTH
SCALE: 1" = 2'-0"

NOTES:
1. ANCHOR ALL LOGS WITH CENTERLINES BELOW +12.5 FT PER 4/C7.0 SIM



NOT FOR CONSTRUCTION

CALL 2 DAYS BEFORE YOU DIG
1-800-424-5555

PROJECT ENGR./ARCH:
DESIGNER:
DRAWN BY:
SCALE:
DATE:
CHECKED BY:
CHECKED/APPROVED BY:

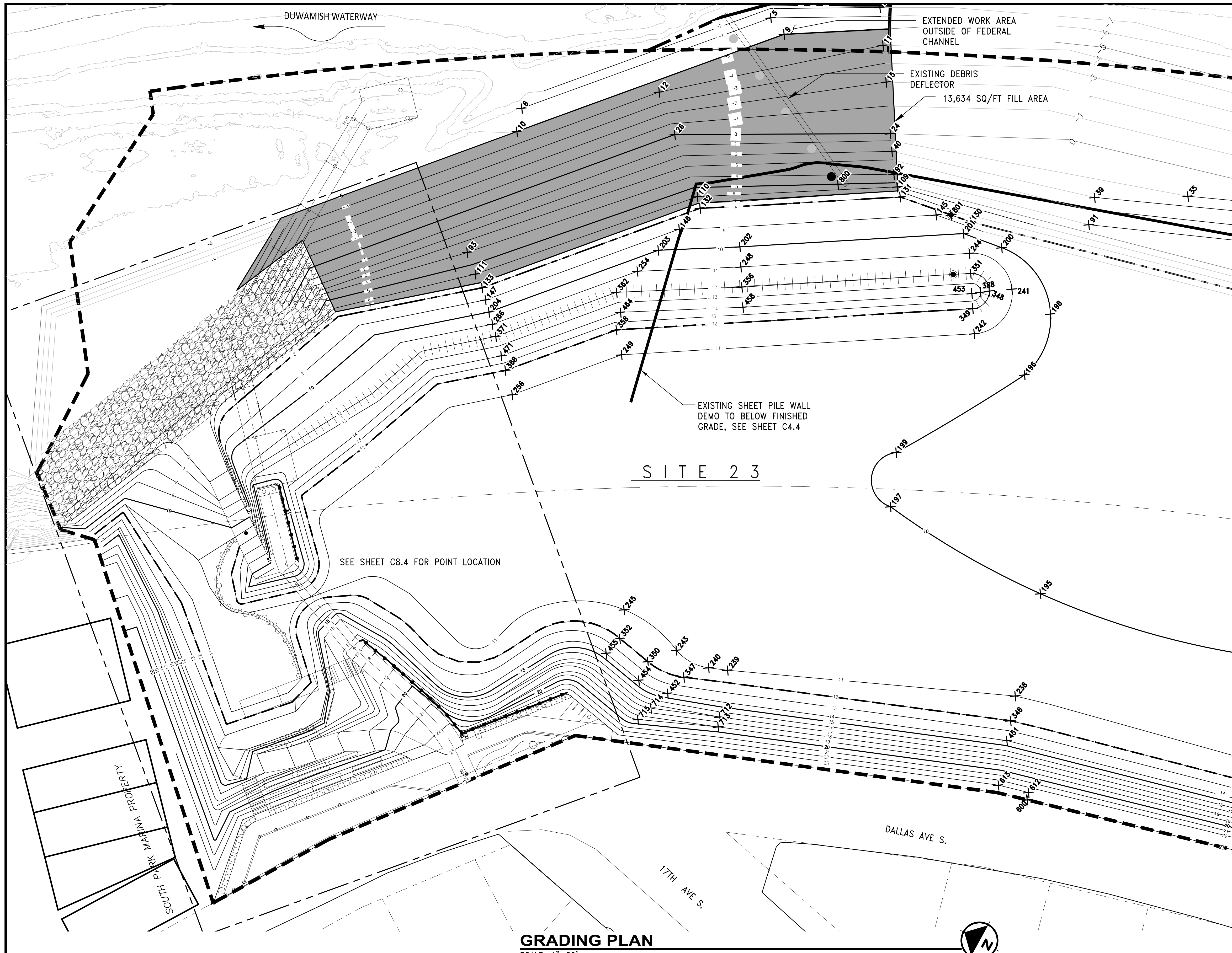
REVISIONS							
NO.	DATE	BY	DESCRIPTION	APP'D	NO.	DATE	BY
1	5/11/17		ISSUED FOR BID				



PROJECT MANAGER:
TICSON MACH
PROJECT ENGINEER:
JOANNA HINGLE
DESIGN ENGINEER:
JOANNA HINGLE
DRAFTER:
JORGE GAVIDIA
SCALE:
AS SHOWN
DATE:
5/11/2017
CHECKED/APPROVED BY:

Port of Seattle MARITIME DIVISION
PROJECT: **SITE 23 & 25 RESTORATION**
SHEET TITLE: **HABITAT DETAILS SHEET 7**

WORK PROJECT NO.
105563
CONSULTANT'S NO.
PORT OF SEATTLE NO.
117-1201 **C7.6**



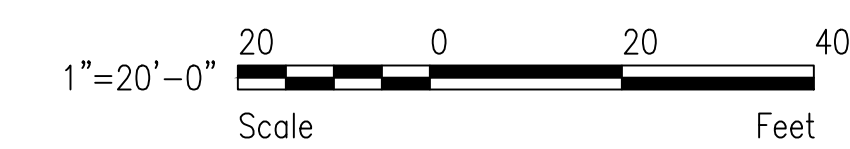
GRADING NOTES:

1. POINTS NOTED INDICATE TOP OF FINISHED GRADE.
2. SEE C8.5 - C8.7 FOR GRADING DATA.

LEGEND:

- PROPERTY BOUNDARY AND WORK AREA BOUNDARY
- EXISTING CONTOUR
- NEW CONTOUR
- FILL AREA

NOT FOR CONSTRUCTION



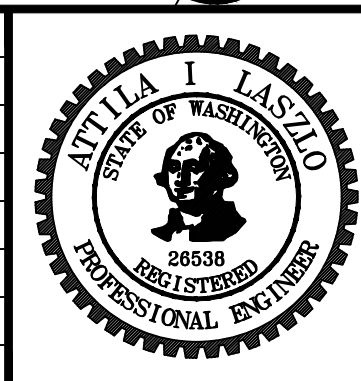
GRADING PLAN
SCALE: 1"=20'

REVISIONS

NO.	DATE	BY	DESCRIPTION	APP'D	NO.	DATE	BY	DESCRIPTION	APP'D
1	5/11/17		ISSUED FOR BID						

CALL 2 DAYS BEFORE YOU DIG
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PROJECT ENGR./ARCH:
DESIGNER:
DRAWN BY:
SCALE:
DATE:
CHECKED BY:
CHECKED/APPROVED BY:

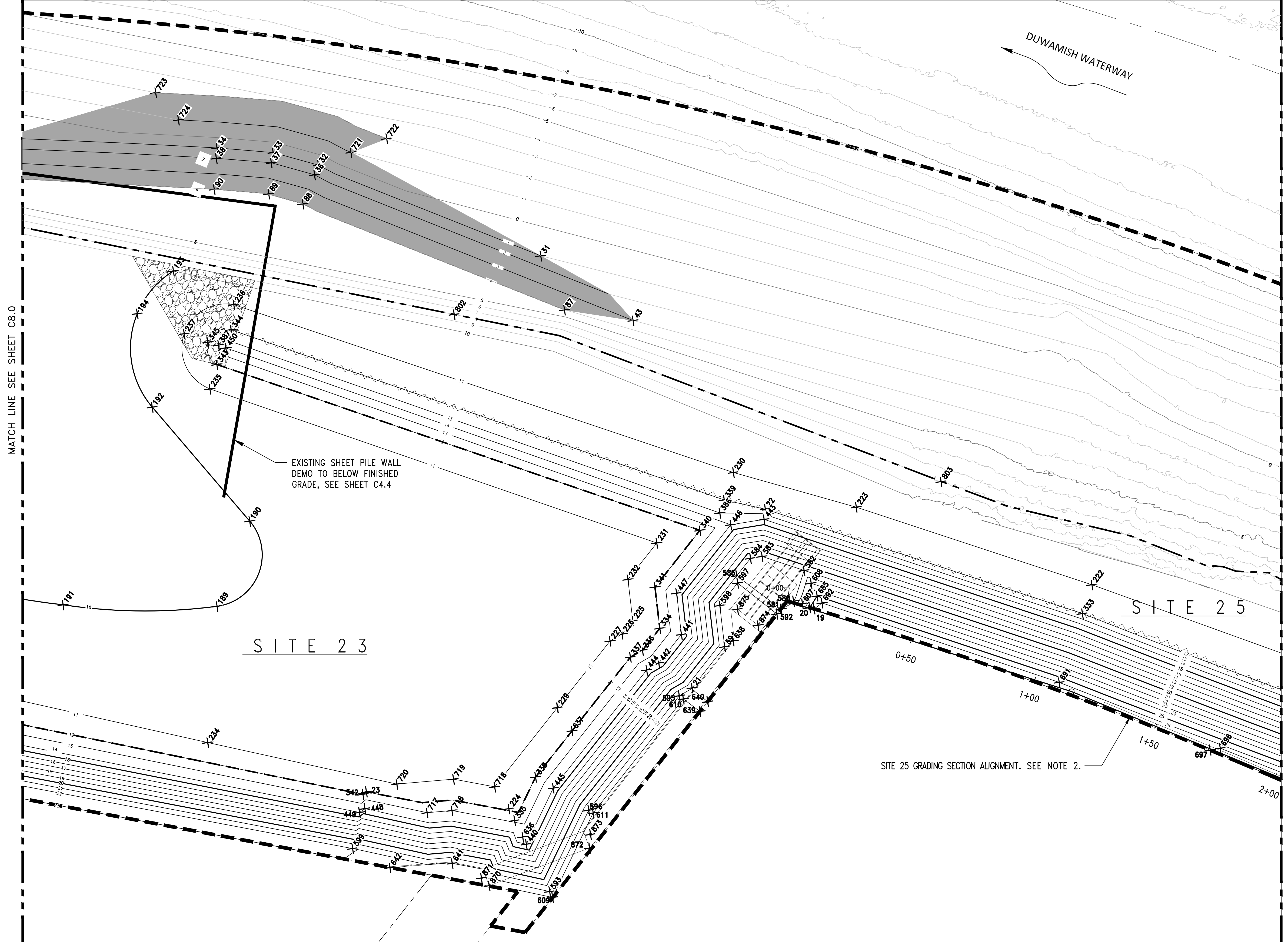


PROJECT MANAGER:
TICSON MACH
PROJECT ENGINEER:
JOANNA HINGLE
DESIGN ENGINEER:
ATTILA LASZLO
DRAFTER:
JORGE GAVIDIA
SCALE:
AS SHOWN
DATE:
5/11/2017
CHECKED/APPROVED BY:
SAM ASAVAREUNGCHAI

Port of Seattle MARITIME DIVISION
PROJECT: **SITE 23 & 25 RESTORATION**
SHEET TITLE: **GRADING PLAN (1 OF 5)**

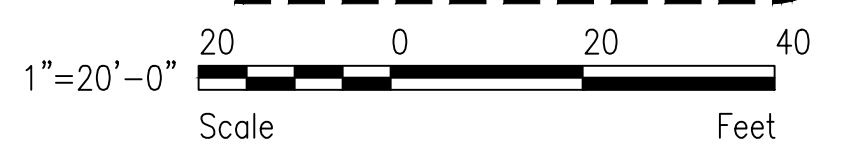
WORK PROJECT NO.
105563
CONSULTANT'S NO.
PORT OF SEATTLE NO.
117-1201 C8.0

- NOTES:**
- SEE SHEET C8.0 FOR GRADING NOTES.
 - SEE SHEETS C8.8 - C8.11 FOR SITE 25 GRADING SECTIONS



- LEGEND:**
- PROPERTY BOUNDARY AND WORK AREA BOUNDARY
 - EXISTING CONTOUR
 - NEW CONTOUR
 - FILL AREA

NOT FOR CONSTRUCTION

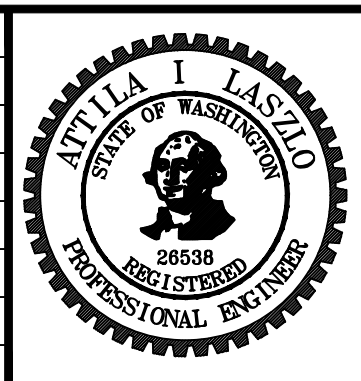


GRADING PLAN
SCALE: 1"=20'

CALL 2 DAYS BEFORE YOU DIG
1-800-424-5555

PROJECT ENGR./ARCH:
DESIGNER:
DRAWN BY:
SCALE:
DATE:
CHECKED BY:
CHECKED/APPROVED BY:

REVISIONS									
NO.	DATE	BY	DESCRIPTION	APP'D	NO.	DATE	BY	DESCRIPTION	APP'D
1	5/11/17		ISSUED FOR BID						



PROJECT MANAGER:
TICSON MACH
PROJECT ENGINEER:
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DESIGN ENGINEER:
ATTILA LASZLO
DRAFTER:
JORGE GAVIDIA
SCALE:
AS SHOWN
DATE:
5/11/2017
CHECKED/APPROVED BY:
SAM ASAVAREUNGCHAI

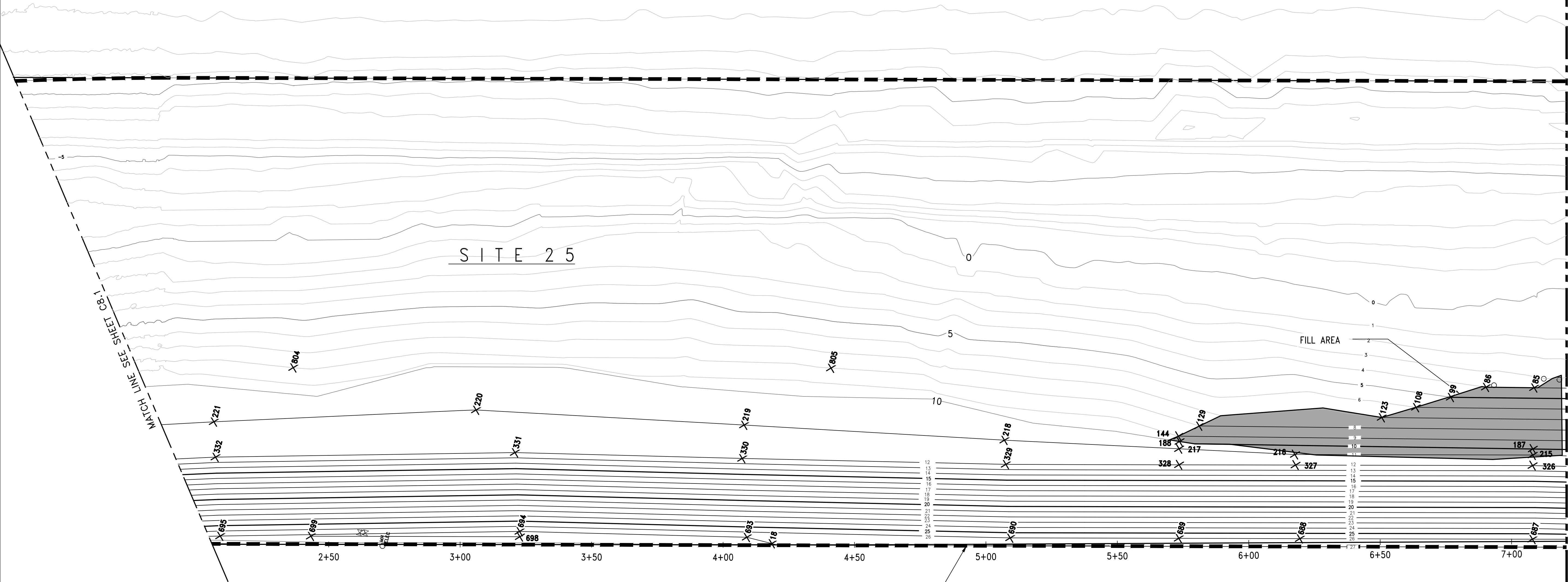
Port of Seattle MARITIME DIVISION
PROJECT: **SITE 23 & 25 RESTORATION**
SHEET TITLE: **GRADING PLAN (2 OF 5)**

WORK PROJECT NO.
105563
CONSULTANT'S NO.
PORT OF SEATTLE NO.
117-1201 **C8.1**

DUWAMISH WATERWAY



SITE 25



MATCH LINE SEE SHEET C8.1

MATCH LINE SEE SHEET C8.3

GRADING NOTES:

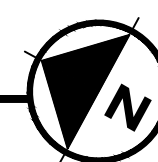
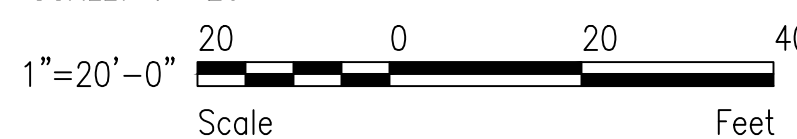
1. SEE SHEET C8.0 FOR GRADING NOTES.

LEGEND:

- PROPERTY BOUNDARY AND WORK AREA BOUNDARY
- 10 EXISTING CONTOUR
- 10 NEW CONTOUR
- FILL AREA

GRADING PLAN

SCALE: 1"=20'



NOT FOR CONSTRUCTION

CALL 2 DAYS BEFORE YOU DIG
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PROJECT ENGR./ARCH:
DESIGNER:
DRAWN BY:
SCALE:
DATE:
CHECKED BY:
CHECKED/APPROVED BY:

REVISIONS									
NO.	DATE	BY	DESCRIPTION	APP'D	NO.	DATE	BY	DESCRIPTION	APP'D
1	5/11/17		ISSUED FOR BID						

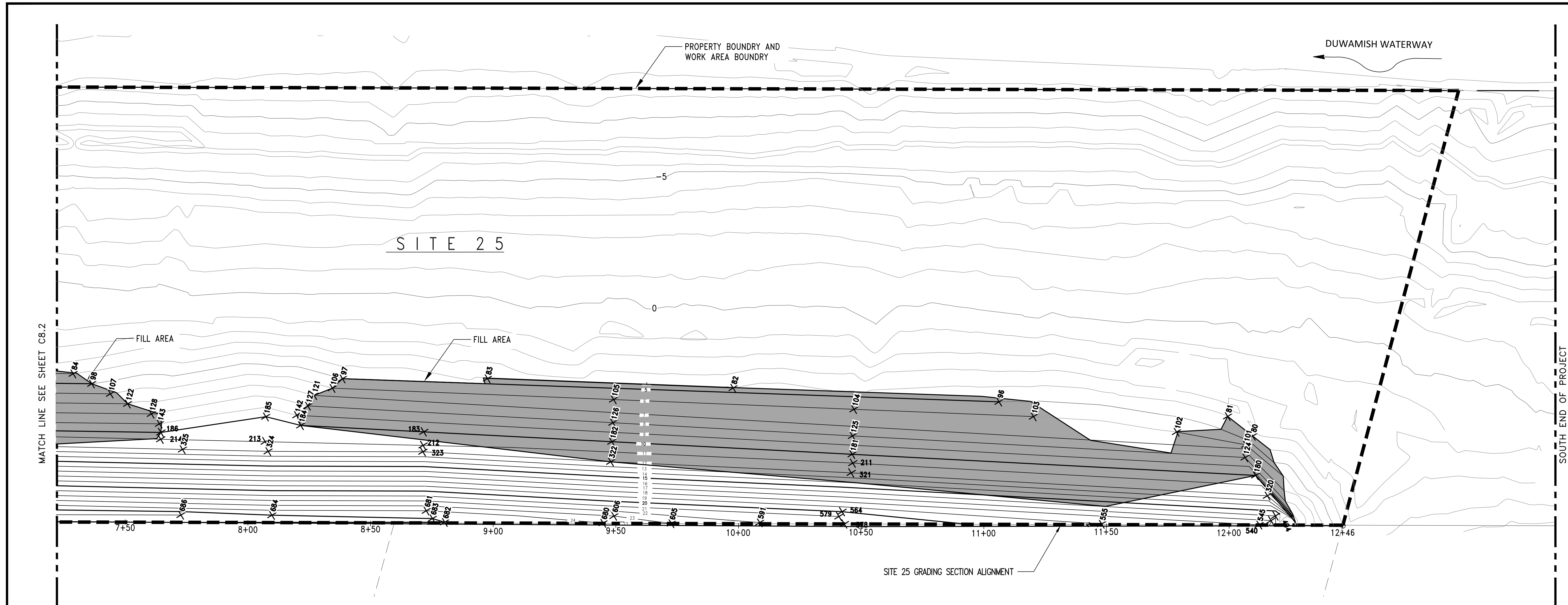


PROJECT MANAGER:
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PROJECT ENGINEER:
JOANNA HINGLE
DESIGN ENGINEER:
ATTILA LASZLO
DRAFTER:
JORGE GAVIDIA
SCALE:
AS SHOWN
DATE:
5/11/2017
CHECKED/APPROVED BY:
SAM ASAVAREUNGCHAI

Port of Seattle MARITIME DIVISION
PROJECT: SITE 23 & 25 RESTORATION
SHEET TITLE: **GRADING PLAN**
(3 OF 5)

WORK PROJECT NO.
105563
CONSULTANT'S NO.
PORT OF SEATTLE NO.
117-1201 **C8.2**

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SITE 25

PROPERTY BOUNDARY AND WORK AREA BOUNDARY

DUWAMISH WATERWAY

FILL AREA

FILL AREA

MATCH LINE SEE SHEET C8.2

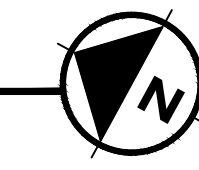
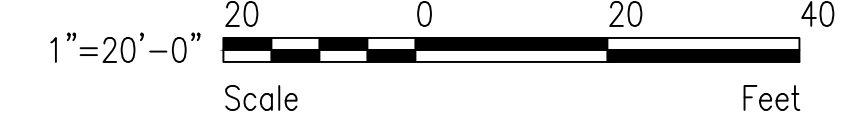
SOUTH END OF PROJECT

7+50 8+00 8+50 9+00 9+50 10+00 10+50 11+00 11+50 12+00 12+46

SITE 25 GRADING SECTION ALIGNMENT

GRADING PLAN

SCALE: 1"=20'



GRADING NOTES:

- SEE SHEET C8.0 FOR GRADING NOTES

LEGEND:

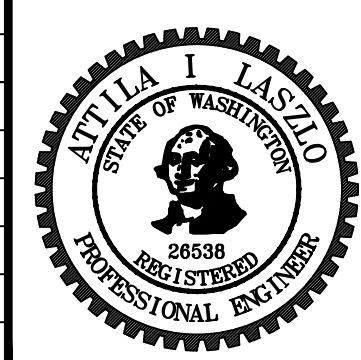
- PROPERTY BOUNDARY AND WORK AREA BOUNDARY
- EXISTING CONTOUR
- NEW CONTOUR
- FILL AREA

NOT FOR CONSTRUCTION

CALL 2 DAYS BEFORE YOU DIG
1-800-424-5555

PROJECT ENGR./ARCH:
DESIGNER:
DRAWN BY:
SCALE:
DATE:
CHECKED BY:
CHECKED/APPROVED BY:

REVISIONS							
NO.	DATE	BY	DESCRIPTION	APP'D	NO.	DATE	BY
1	5/11/17		ISSUED FOR BID				

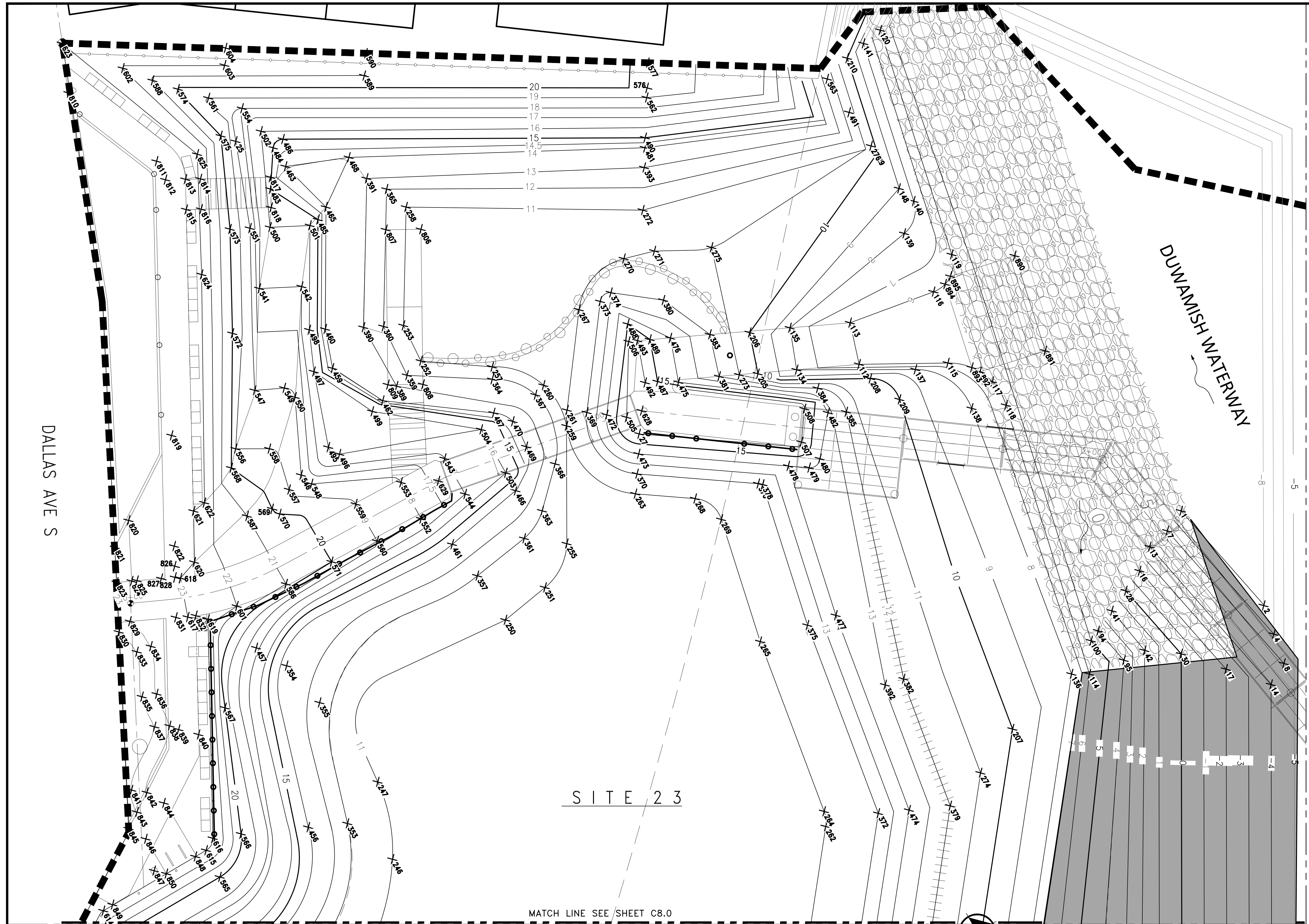


PROJECT MANAGER:
TICSON MACH
PROJECT ENGINEER:
JOANNA HINGLE
DESIGN ENGINEER:
ATTILA LASZLO
DRAFTER:
KEN LANE
SCALE:
AS SHOWN
DATE:
5/11/2017
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SAM ASAVAREUNGCHAI

Port of Seattle MARITIME DIVISION
PROJECT: SITE 23 & 25 RESTORATION
SHEET TITLE: **GRADING PLAN**
(4 OF 5)

WORK PROJECT NO.
105563
CONSULTANT'S NO.
PORT OF SEATTLE NO.
117-1201 **C8.3**

FT117\2012\117 Restoration - 103944\Design-Civil\1171201C008_4.dwg, 10/10/2017 12:22:56 PM, kcl



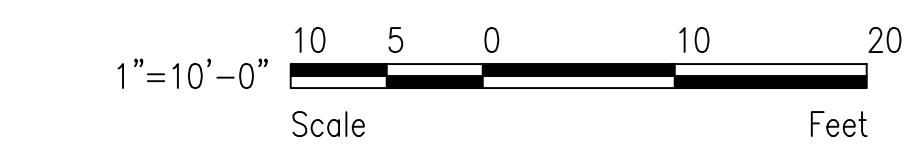
GRADING NOTES:

- SEE SHEET C8.0 FOR GRADING NOTES

LEGEND:

- PROPERTY BOUNDARY AND WORK AREA BOUNDARY
- EXISTING CONTOUR
- NEW CONTOUR
- FILL AREA

GRAPHIC SCALE



NOT FOR
CONSTRUCTION

MATCH LINE SEE SHEET C8.0

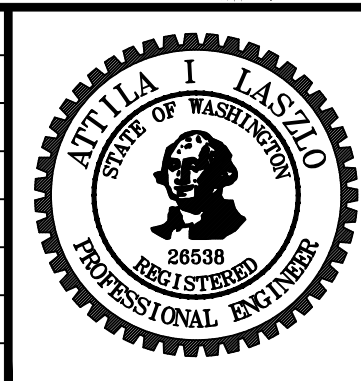
GRADING PLAN

SCALE: 1"=10'

CALL 2 DAYS
BEFORE YOU DIG
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PROJECT ENGR./ARCH:	
DESIGNER:	
DRAWN BY:	
SCALE:	
DATE:	
CHECKED BY:	
CHECKED/APPROVED BY:	

REVISIONS					
NO.	DATE	BY	DESCRIPTION	APP'D	NO.
5/11/17			ISSUED FOR BID		



PROJECT MANAGER:
TICSON MACH
PROJECT ENGINEER:
JOANNA HINGLE
DESIGN ENGINEER:
ATTILA LASZLO
DRAFTER:
JORGE GAVIDIA
SCALE:
AS SHOWN
DATE:
5/11/2017
CHECKED/APPROVED BY:
SAM ASAVAREUNGCHAI

Port of Seattle MARITIME DIVISION
 PROJECT: **SITE 23 & 25 RESTORATION**
 SHEET TITLE: **GRADING PLAN**
(5 OF 5)

WORK PROJECT NO.
105563
 CONSULTANT'S NO.

 PORT OF SEATTLE NO.
117-1201 **C8.4**

GRADING DATA			
POINT ID	NORTHING	EASTING	ELEVATION
1	195792.12	1275237.00	-8.000
2	195796.96	1275261.66	-8.000
3	195670.98	1275486.68	-7.000
4	195795.85	1275267.62	-7.000
5	195701.47	1275455.67	-6.000
6	195754.11	1275364.61	-6.000
7	195787.73	1275239.08	-6.000
8	195794.67	1275273.72	-6.000
9	195693.26	1275454.05	-5.000
10	195749.70	1275356.29	-5.000
11	195660.32	1275475.95	-4.000
12	195716.47	1275404.61	-4.000
13	195783.11	1275240.07	-4.000
14	195790.33	1275276.08	-4.000
15	195650.00	1275465.55	-2.000
16	195778.93	1275243.24	-2.000
17	195784.08	1275268.93	-2.000
18	194772.06	1275662.41	0.000
19	195165.02	1275554.49	0.000
20	195166.71	1275553.86	0.000
21	195184.29	1275501.89	0.000
22	195203.25	1275573.91	0.000
23	195260.38	1275394.33	0.000
24	195635.56	1275450.93	0.000
25	195665.33	1275078.44	0.000
26	195700.90	1275395.66	0.000
27	195705.94	1275169.45	0.000
28	195774.53	1275245.32	0.000
29	195775.04	1275144.75	0.000
30	195777.83	1275261.77	0.000
31	195331.07	1275599.80	1.000
32	195420.55	1275576.16	1.000
33	195437.40	1275569.52	1.000
34	195455.73	1275557.93	1.000
35	195529.08	1275507.83	1.000
36	195419.50	1275572.27	2.000
37	195435.59	1275565.93	2.000
38	195453.55	1275554.58	2.000
39	195557.12	1275483.64	2.000
40	195630.54	1275445.95	2.000

GRADING DATA			
POINT ID	NORTHING	EASTING	ELEVATION
41	195770.14	1275247.39	2.000
42	195771.85	1275257.53	2.000
43	195287.67	1275601.29	3.000
80	194012.64	1275886.43	4.000
81	194024.49	1275891.74	4.000
82	194222.87	1275854.18	4.000
83	194320.95	1275833.70	4.000
84	194485.29	1275794.76	4.000
85	194504.95	1275790.09	4.000
86	194522.82	1275785.86	4.000
87	195311.24	1275588.63	4.000
88	195416.33	1275560.62	4.000
89	195429.17	1275555.79	4.000
90	195446.99	1275544.53	4.000
91	195551.93	1275473.89	4.000
92	195624.12	1275439.48	4.000
93	195733.92	1275306.83	4.000
94	195765.74	1275249.47	4.000
95	195767.28	1275257.15	4.000
96	194116.32	1275874.95	5.000
97	194378.29	1275819.35	5.000
98	194476.93	1275792.63	5.000
99	194534.84	1275778.90	5.000
100	195763.54	1275250.51	5.000
101	194014.51	1275882.26	6.000
102	194043.16	1275880.50	6.000
103	194101.24	1275872.51	6.000
104	194172.98	1275857.68	6.000
105	194269.01	1275837.83	6.000
106	194381.35	1275814.61	6.000
107	194468.55	1275790.50	6.000
108	194546.77	1275771.96	6.000
109	195619.86	1275436.50	6.000
110	195678.10	1275382.53	6.000
111	195725.88	1275302.33	6.000
112	195751.01	1275179.40	6.000
113	195753.60	1275171.30	6.000
114	195759.91	1275256.10	6.000
115	195766.51	1275188.04	6.000
116	195771.16	1275174.28	6.000

GRADING DATA			
POINT ID	NORTHING	EASTING	ELEVATION
117	195772.33	1275195.72	6.000
118	195772.37	1275201.18	6.000
119	195778.03	1275169.65	6.000
120	195788.09	1275123.63	6.000
121	194387.89	1275809.94	7.000
122	194460.78	1275788.24	7.000
123	194558.47	1275765.07	7.000
124	194013.51	1275877.20	8.000
125	194170.95	1275847.02	8.000
126	194266.99	1275828.62	8.000
127	194389.32	1275805.17	8.000
128	194450.39	1275786.59	8.000
129	194625.11	1275745.16	8.000
130	195588.68	1275444.56	8.000
131	195616.40	1275434.19	8.000
132	195674.38	1275379.70	8.000
133	195720.35	1275299.85	8.000
134	195739.63	1275174.11	8.000
135	195742.67	1275166.16	8.000
136	195756.83	1275254.31	8.000
137	195760.23	1275185.93	8.000
138	195766.10	1275198.29	8.000
139	195771.92	1275161.24	8.000
140	195776.79	1275156.61	8.000
141	195783.86	1275124.25	8.000
142	194392.76	1275800.37	9.000
143	194446.21	1275783.47	9.000
144	194631.84	1275739.45	9.000
145	195600.88	1275437.86	9.000
146	195675.36	1275367.98	9.000
147	195716.21	1275297.03	9.000
148	195775.51	1275152.93	9.000
180	194007.59	1275871.15	10.000
181	194169.26	1275839.71	10.000
182	194265.53	1275821.00	10.000
183	194340.92	1275806.34	10.000
184	194390.19	1275796.76	10.000
185	194404.88	1275796.76	10.000
186	194444.84	1275780.19	10.000
187	194499.83	1275767.36	10.000

GRADING DATA			
POINT ID	NORTHING	EASTING	ELEVATION
188	194630.93	1275737.61	10.000
189	195349.40	1275416.84	10.000
190	195359.11	1275450.62	10.000
191	195397.13	1275381.58	10.000
192	195415.53	1275463.10	10.000
193	195440.61	1275509.92	10.000
194	195441.84	1275488.42	10.000
195	195472.45	1275349.25	10.000
196	195533.13	1275411.77	10.000
197	195540.26	1275337.46	10.000
198	195540.79	1275436.93	10.000
199	195552.35	1275355.41	10.000
200	195572.56	1275444.65	10.000
201	195587.80	1275439.22	10.000
202	195652.41	1275378.09	10.000
203	195676.34	1275356.25	10.000
204	195712.07	1275294.20	10.000
205	195732.54	1275170.91	10.000
206	195735.22	1275162.96	10.000
207	195741.11	1275257.94	10.000
208	195751.54	1275182.98	10.000
209	195754.48	1275189.53	10.000
210	195779.56	1275125.18	10.000
211	194168.14	1275836.28	11.000
212	194339.87	1275800.92	11.000
213	194402.65	1275786.81	11.000
214	194444.23	1275777.47	11.000
215	194499.32	1275765.10	11.000
216	194587.12	1275743.42	11.000
217	194630.41	1275734.87	11.000
218	194695.68	1275721.99	11.000
219	194793.15	1275703.61	11.000
220	194893.49	1275684.49	11.000
221	194989.19	1275656.00	11.000
222	195085.17	1275626.35	11.000
223	195175.68	1275595.59	11.000
224	195212.65	1275422.20	11.000
225	195218.14	1275508.81	11.000
226	195218.29	1275502.22	11.000
227	195220.40	1275497.27	11.000

GRADING DATA			
POINT ID	NORTHING	EASTING	ELEVATION
228	195221.16	1275464.58	11.000
229	195221.16	1275464.58	11.000
230	195221.53	1275577.78	11.000
231	195228.76	1275538.29	11.000
232	195229.18	1275520.38	11.000
233	195320.64	1275372.73	11.000
234	195320.64	1275372.73	11.000
235	195402.02	1275482.09	11.000
236	195414.22	1275513.57	11.000
237	195422.74	1275493.12	11.000
238	195453.99	1275311.71	11.000
239	195548.04	1275246.16	11.000
240	195554.43	1275242.04	11.000
241	195558.87	1275434.64	11.000
242	195558.94	1275411.46	11.000
243	195568.74	1275239.16	11.000
244	195580.94	1275434.70	11.000
245	195594.99	1275238.11	11.000
246	195620.67	1275218.48	11.000
247	195625.85	1275203.62	11.000
248	195646.96	1275372.23	11.000
249	195660.82	1275315.06	11.000
250	195664.18	1275188.32	11.000
251	195674.27	1275186.65	11.000
252	195675.42	1275135.00	11.000
253	195675.96	1275127.11	11.000
254	195677.32	1275344.53	11.000
255	195682.43	1275181.23	11.000
256	195683.90	1275274.98	11.000
257	195687.20	1275143.15	11.000
258	195688.25	1275106.85	11.000
259	195694.16	1275160.81	11.000
260	195694.25	1275151.48	11.000
261	195695.83	1275158.12	11.000
262	195698.99	1275256.14	11.000
263	195699.31	1275179.46	11.000
264	195700.23	1275253.36	11.000
265	195706.15	1275217.55	11.000
266	195707.92	1275291.37	11.000
267	195707.94	1275141.93	11.000

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CONSTRUCTION**

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PROJECT ENGR./ARCH:
DESIGNER:
DRAWN BY:
SCALE:
DATE:
CHECKED BY:
CHECKED/APPROVED BY:

REVISIONS									
NO.	DATE	BY	DESCRIPTION	APP'D	NO.	DATE	BY	DESCRIPTION	APP'D
	5/11/17		ISSUED FOR BID						



PROJECT MANAGER: TICSON MACH
PROJECT ENGINEER: JOANNA HINGLE
DESIGN ENGINEER: ATTILA LASZLO
DRAFTER: JORGE GAVIDIA
SCALE: NONE
DATE: 5/11/2017
CHECKED/APPROVED BY:

Port of Seattle MARITIME DIVISION
PROJECT: **SITE 23 & 25 RESTORATION**
SHEET TITLE: **GRADING DATA
SHEET 1 OF 3**

WORK PROJECT NO. 105563
CONSULTANT'S NO.
PORT OF SEATTLE NO. 117-1201 C8.5

GRADING DATA			
POINT ID	NORTHING	EASTING	ELEVATION
268	195709.17	1275186.27	11.000
269	195711.62	1275192.49	11.000
270	195720.83	1275137.58	11.000
271	195726.87	1275139.29	11.000
272	195728.96	1275131.06	11.000
273	195729.20	1275169.24	11.000
274	195731.18	1275262.34	11.000
275	195737.13	1275144.39	11.000
276	195774.92	1275142.76	11.000
320	194000.92	1275864.26	12.000
321	194167.82	1275832.27	12.000
322	194263.97	1275812.95	12.000
323	194339.30	1275798.38	12.000
324	194400.53	1275783.29	12.000
325	194434.58	1275775.60	12.000
326	194498.39	1275761.20	12.000
327	194585.93	1275739.58	12.000
328	194628.95	1275728.96	12.000
329	194692.93	1275713.19	12.000
330	194790.80	1275691.11	12.000
331	194875.22	1275672.34	12.000
332	194985.31	1275643.11	12.000
333	195081.40	1275615.27	12.000
334	195208.04	1275512.71	12.000
335	195208.13	1275419.91	12.000
336	195208.29	1275501.99	12.000
337	195210.41	1275497.04	12.000
338	195211.77	1275438.14	12.000
339	195218.00	1275567.18	12.000
340	195218.44	1275552.19	12.000
341	195219.09	1275524.29	12.000
342	195260.89	1275392.79	12.000
343	195405.54	1275491.23	12.000
344	195409.18	1275505.20	12.000
345	195413.49	1275496.03	12.000
346	195449.09	1275302.98	12.000
347	195559.58	1275232.88	12.000
348	195565.26	1275428.29	12.000
349	195565.82	1275418.72	12.000
350	195574.51	1275228.42	12.000

GRADING DATA			
POINT ID	NORTHING	EASTING	ELEVATION
351	195575.44	1275428.89	12.000
352	195588.96	1275228.30	12.000
353	195616.45	1275207.79	12.000
354	195621.68	1275174.37	12.000
355	195623.71	1275184.05	12.000
356	195641.52	1275366.37	12.000
357	195663.72	1275177.85	12.000
358	195668.76	1275321.32	12.000
359	195671.60	1275136.09	12.000
360	195672.40	1275125.27	12.000
361	195675.58	1275176.06	12.000
362	195678.30	1275332.80	12.000
363	195681.45	1275173.08	12.000
364	195685.95	1275145.31	12.000
365	195686.67	1275101.79	12.000
366	195688.37	1275166.23	12.000
367	195691.90	1275152.34	12.000
368	195692.18	1275280.63	12.000
369	195699.03	1275160.52	12.000
370	195701.58	1275176.17	12.000
371	195703.78	1275288.55	12.000
372	195709.41	1275259.12	12.000
373	195712.45	1275142.61	12.000
374	195715.18	1275142.16	12.000
375	195715.97	1275219.43	12.000
376	195721.59	1275189.99	12.000
377	195722.27	1275190.59	12.000
378	195722.27	1275190.59	12.000
379	195722.63	1275265.02	12.000
380	195723.53	1275148.72	12.000
381	195725.54	1275167.50	12.000
382	195727.25	1275238.36	12.000
383	195728.15	1275159.31	12.000
384	195741.44	1275179.40	12.000
385	195744.02	1275186.36	12.000
386	195216.32	1275562.15	13.000
387	195409.53	1275497.61	13.000
388	195567.60	1275425.69	13.000
389	195668.70	1275136.94	13.000
390	195668.85	1275123.43	13.000

GRADING DATA			
POINT ID	NORTHING	EASTING	ELEVATION
391	195684.30	1275097.96	13.000
392	195723.45	1275237.55	13.000
393	195733.47	1275123.82	13.000
440	195199.03	1275415.32	14.000
441	195199.97	1275515.84	14.000
442	195200.29	1275501.80	14.000
443	195201.22	1275570.45	14.000
444	195202.41	1275496.85	14.000
445	195203.76	1275438.83	14.000
446	195210.23	1275561.06	14.000
447	195211.01	1275527.42	14.000
448	195256.98	1275388.83	14.000
449	195257.75	1275386.40	14.000
450	195406.64	1275498.40	14.000
451	195445.16	1275296.00	14.000
452	195560.39	1275223.83	14.000
453	195569.94	1275423.08	14.000
454	195572.50	1275220.43	14.000
455	195589.34	1275220.29	14.000
456	195609.29	1275204.52	14.000
457	195618.22	1275168.23	14.000
458	195636.07	1275360.51	14.000
459	195659.40	1275127.42	14.000
460	195662.05	1275119.91	14.000
461	195662.53	1275169.90	14.000
462	195664.85	1275138.05	14.000
463	195671.45	1275087.77	14.000
464	195671.99	1275327.73	14.000
465	195674.38	1275098.85	14.000
466	195678.87	1275166.92	14.000
467	195682.84	1275151.28	14.000
468	195683.32	1275092.53	14.000
469	195685.12	1275160.39	14.000
470	195685.30	1275154.66	14.000
471	195697.15	1275284.02	14.000
472	195702.23	1275162.92	14.000
473	195703.85	1275172.88	14.000
474	195715.08	1275261.65	14.000
475	195717.92	1275164.44	14.000
476	195720.94	1275155.97	14.000

GRADING DATA			
POINT ID	NORTHING	EASTING	ELEVATION
477	195721.86	1275220.56	14.000
478	195728.56	1275189.93	14.000
479	195732.01	1275192.32	14.000
480	195734.77	1275191.83	14.000
481	195735.56	1275120.45	14.000
482	195740.79	1275184.69	14.000
483	195666.58	1275090.16	15.000
484	195671.16	1275083.28	15.000
485	195671.74	1275100.21	15.000
486	195673.72	1275082.78	15.000
487	195714.38	1275162.24	15.000
488	195714.96	1275149.28	15.000
489	195717.25	1275154.18	15.000
490	195736.60	1275118.75	15.000
491	195774.48	1275134.76	15.000
492	195712.12	1275161.19	15.500
493	195714.99	1275153.13	15.500
494	193995.76	1275857.09	16.000
495	195650.78	1275140.69	16.000
496	195652.01	1275142.99	16.000
497	195655.84	1275126.15	16.000
498	195659.21	1275118.44	16.000
499	195661.97	1275138.88	16.000
500	195662.67	1275096.74	16.000
501	195669.76	1275100.42	16.000
502	195670.70	1275079.21	16.000
503	195678.95	1275162.89	16.000
504	195679.03	1275152.90	16.000
505	195705.43	1275165.32	16.000
506	195713.37	1275152.42	16.000
507	195733.23	1275187.10	16.000
508	195737.11	1275181.66	16.000
540	193997.05	1275854.81	17.000
541	195654.69	1275106.28	17.000
542	195662.22	1275110.17	17.000
543	195669.79	1275154.27	17.000
544	195669.79	1275162.48	17.000
545	194001.31	1275851.96	18.000
546	195643.28	1275142.77	18.000
547	195643.70	1275123.46	18.000

GRADING DATA			
POINT ID	NORTHING	EASTING	ELEVATION
548	195644.20	1275145.36	18.000
549	195649.06	1275126.02	18.000
550	195650.00	1275128.69	18.000
551	195659.10	1275094.90	18.000
552	195659.70	1275162.35	18.000
553	195659.84	1275154.06	18.000
554	195669.72	1275073.34	18.000
555	194063.70	1275836.74	19.000
556	195634.57	1275131.68	19.000
557	195639.73	1275144.09	19.000
558	195640.40	1275135.04	19.000
559	195649.84	1275153.28	19.000
560	195649.84	1275161.83	19.000
561	195664.94	1275068.19	19.000
562	195740.89	1275111.96	19.000
563	195774.02	1275126.78	19.000
564	194167.61	1275816.02	20.000
565	195589.00	1275204.30	20.000
566	195596.97	1275198.94	20.000
567	195606.80	1275175.50	20.000
568	195631.89	1275134.56	20.000
569	195634.87	1275145.73	20.000
570	195635.69	1275147.39	20.000
571	195639.89	1275160.86	20.000
572	195645.55	1275111.37	20.000
573	195655.55	1275093.06	20.000
574	195660.55	1275063.62	20.000
575	195663.29	1275076.00	20.000
576	195741.93	1275110.30	20.000
577	195744.57	1275106.02	20.000
578	194165.48	1275811.39	21.000
579	194168.35	1275813.83	21.000
580	195173.20	1275552.09	21.000
581	195175.19	1275546.72	21.000
582	195177.07	1275564.01	21.000
583	195193.22	1275558.56	21.000
584	195196.36	1275555.29	21.000
585	195196.56	1275546.72	21.000
586	195629.77	1275160.15	21.000
587	195629.81	1275144.49	21.000

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PROJECT ENGR./ARCH:
DESIGNER:
DRAWN BY:
SCALE:
DATE:
CHECKED BY:
CHECKED/APPROVED BY:

REVISIONS									
NO.	DATE	BY	DESCRIPTION	APP'D	NO.	DATE	BY	DESCRIPTION	APP'D
	5/11/17		ISSUED FOR BID						



PROJECT MANAGER: TICSON MACH
PROJECT ENGINEER: JOANNA HINGLE
DESIGN ENGINEER: ATTILA LASZLO
DRAWN BY: JORGE GAVIDIA
SCALE: NONE
DATE: 5/11/2017
CHECKED/APPROVED BY:

Port of Seattle MARITIME DIVISION
PROJECT: **SITE 23 & 25 RESTORATION**
SHEET TITLE: **GRADING DATA
SHEET 2 OF 3**

WORK PROJECT NO. 105563
CONSULTANT'S NO.
PORT OF SEATTLE NO. 117-1201 C8.6

GRADING DATA			
POINT ID	NORTHING	EASTING	ELEVATION
588	195657.01	1275059.57	21.000
589	195694.15	1275079.90	21.000
590	195696.70	1275076.20	21.000
591	194199.11	1275803.59	22.000
592	195175.34	1275544.29	22.000
593	195180.87	1275406.15	22.000
594	195183.82	1275522.09	22.000
595	195186.41	1275496.48	22.000
596	195187.72	1275440.24	22.000
597	195194.60	1275544.72	22.000
598	195194.86	1275533.67	22.000
599	195251.48	1275373.69	22.000
600	195423.84	1275283.12	22.000
601	195619.04	1275159.07	22.000
602	195653.09	1275054.48	22.000
603	195671.01	1275064.12	22.000
604	195672.90	1275061.25	22.000
605	194233.94	1275794.52	23.000
606	194257.36	1275791.81	23.000
607	195169.87	1275553.39	23.000
608	195171.92	1275561.70	23.000
609	195178.60	1275405.00	23.000
610	195184.41	1275496.43	23.000
611	195185.71	1275440.43	23.000
612	195425.32	1275285.72	23.000
613	195436.33	1275280.29	23.000
614	195565.45	1275198.49	23.000
615	195589.29	1275198.29	23.000
616	195591.66	1275196.88	23.000
617	195609.44	1275156.05	23.000
618	195612.06	1275148.58	23.000
619	195612.70	1275158.47	23.000
620	195616.05	1275147.19	23.000
621	195621.04	1275138.27	23.000
622	195623.76	1275137.91	23.000
623	195645.01	1275044.06	23.000
624	195646.10	1275098.09	23.000
625	195657.37	1275076.82	23.000
628	195708.70	1275165.70	16.000
629	195666.46	1275157.54	18.670

GRADING DATA			
POINT ID	NORTHING	EASTING	ELEVATION
636	195201.83	1275416.72	13.500
637	195211.25	1275460.85	12.000
638	195182.52	1275525.89	23.000
639	195176.41	1275496.43	23.000
640	195176.30	1275501.25	22.000
641	195217.40	1275392.23	22.000
642	195235.59	1275376.47	23.000
680	194260.95	1275787.96	24.000
681	194332.11	1275775.39	24.000
682	194323.72	1275772.67	25.000
683	194328.92	1275772.91	25.000
684	194392.75	1275758.41	25.000
685	195167.12	1275559.16	25.000
686	194428.72	1275749.52	26.000
687	194491.65	1275734.01	26.000
688	194577.56	1275712.82	26.000
689	194622.27	1275701.79	26.000
690	194684.56	1275686.42	26.000
691	195072.58	1275588.70	26.000
692	195163.98	1275558.16	26.000
693	194781.83	1275662.42	27.000
694	194866.25	1275643.66	27.000
695	194976.35	1275614.42	27.000
696	195007.77	1275605.77	27.000
697	195010.41	1275602.88	27.000
698	194865.65	1275641.74	28.000
699	194942.85	1275622.70	28.000
712	195538.48	1275229.93	17.000
713	195536.45	1275226.48	19.000
714	195561.68	1275215.00	17.000
715	195562.74	1275208.25	19.000
716	195229.74	1275408.45	13.000
717	195236.88	1275402.02	13.000
718	195222.07	1275425.64	11.000
719	195236.55	1275418.47	11.000
720	195252.84	1275403.79	11.000
721	195413.48	1275587.64	-1.000
722	195405.66	1275600.14	-2.000
723	195487.43	1275560.70	-2.000
724	195474.12	1275557.60	-1.000

GRADING DATA			
POINT ID	NORTHING	EASTING	ELEVATION
800	195638.52	1275422.10	5.000
801	195596.31	1275441.71	8.000
802	195344.13	1275561.67	8.000
803	195155.50	1275623.12	8.000
804	194964.86	1275683.30	8.000
805	194766.33	1275732.64	8.000
806	195688.61	1275112.19	11.000
807	195682.50	1275108.76	12.000
808	195673.44	1275139.28	12.500
809	195667.34	1275135.81	12.000
810	195641.22	1275053.33	23.000
811	195649.62	1275073.96	23.000
812	195649.31	1275078.06	23.000
813	195652.82	1275079.97	23.000
814	195655.46	1275081.41	23.000
815	195649.92	1275085.29	23.000
816	195652.55	1275086.73	23.000
817	195667.74	1275088.12	15.000
818	195664.84	1275093.44	16.000
819	195624.79	1275122.97	23.000
820	195608.85	1275133.39	23.000
821	195603.79	1275136.70	23.000
822	195614.18	1275142.40	23.000
823	195600.60	1275142.94	23.000
824	195603.32	1275144.21	23.000
825	195604.28	1275144.66	23.000
826	195612.26	1275145.92	23.000
827	195608.70	1275146.73	23.000
828	195611.18	1275147.89	23.000
829	195598.98	1275151.01	23.000
830	195596.02	1275151.75	23.000
831	195607.34	1275154.93	23.000
832	195610.97	1275156.63	23.000
833	195597.15	1275156.99	23.000
834	195600.12	1275157.43	23.000
835	195593.53	1275165.27	23.000
836	195596.36	1275166.27	23.000
837	195592.71	1275171.74	23.000
838	195595.40	1275173.09	23.000
839	195596.59	1275174.62	23.000

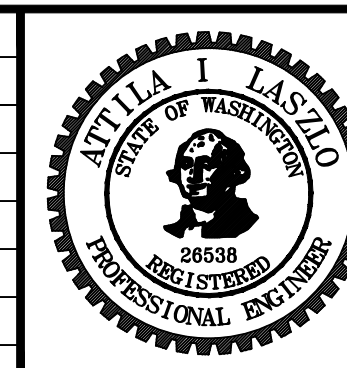
GRADING DATA			
POINT ID	NORTHING	EASTING	ELEVATION
840	195599.55	1275177.49	23.000
841	195582.38	1275180.39	23.000
842	195584.80	1275182.35	23.000
843	195581.13	1275184.76	23.000
844	195586.70	1275185.89	23.000
845	195578.03	1275186.79	23.000
846	195579.98	1275190.29	23.000
847	195578.24	1275196.63	23.000
848	195586.81	1275198.31	23.000
849	195567.64	1275198.36	23.000
850	195580.06	1275198.37	23.000
870	195200.83	1275393.93	22.000
871	195205.02	1275394.47	22.000
872	195178.68	1275428.82	23.000
873	195181.56	1275433.21	23.000
874	195178.54	1275536.44	22.000
875	195188.54	1275536.66	22.000
890	195788.82	1275176.14	0.000
891	195784.59	1275195.69	0.000
892	195771.21	1275192.79	6.000
893	195770.20	1275191.24	6.000
894	195773.92	1275174.11	6.000
895	195775.61	1275173.28	6.000

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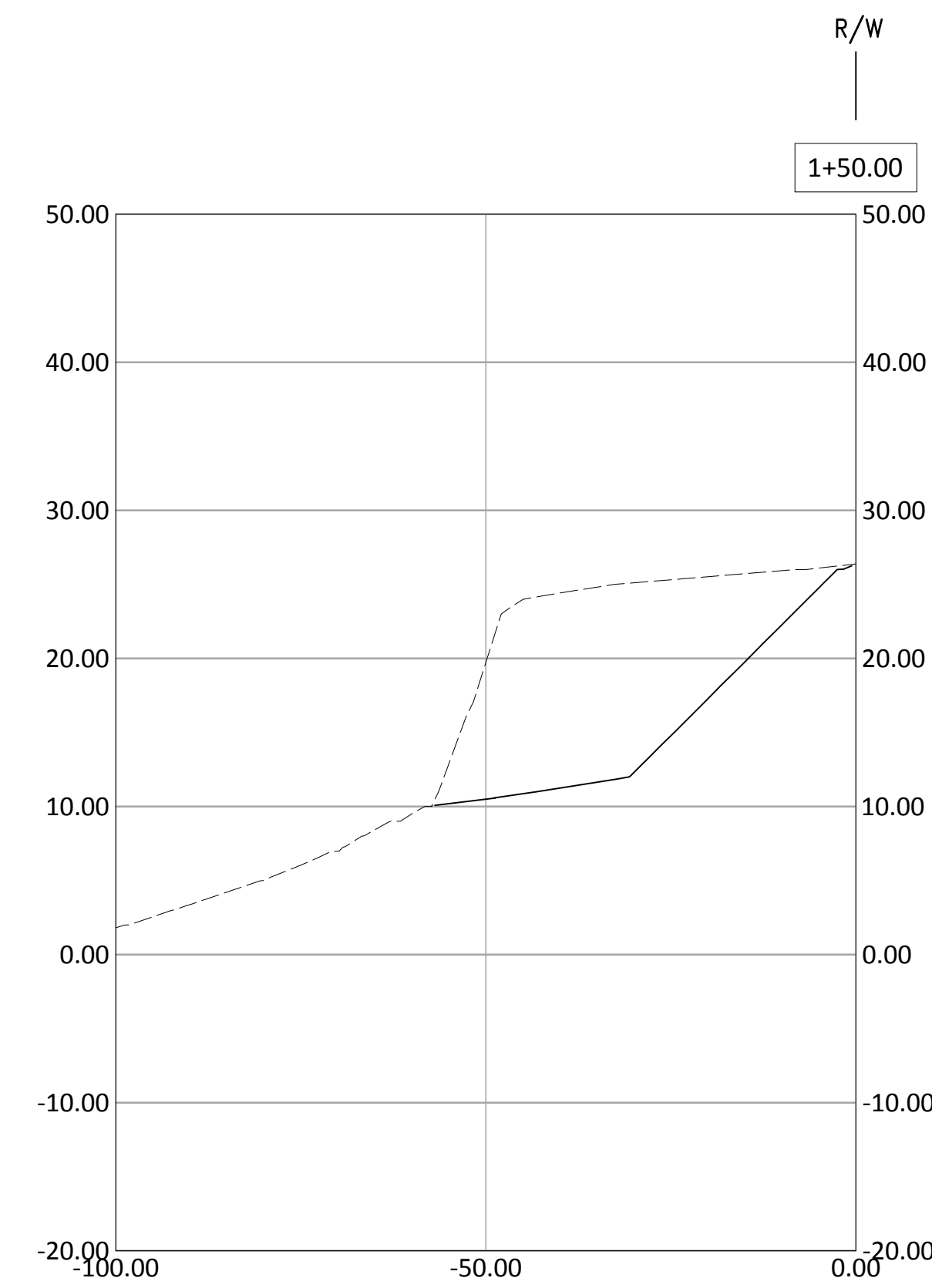
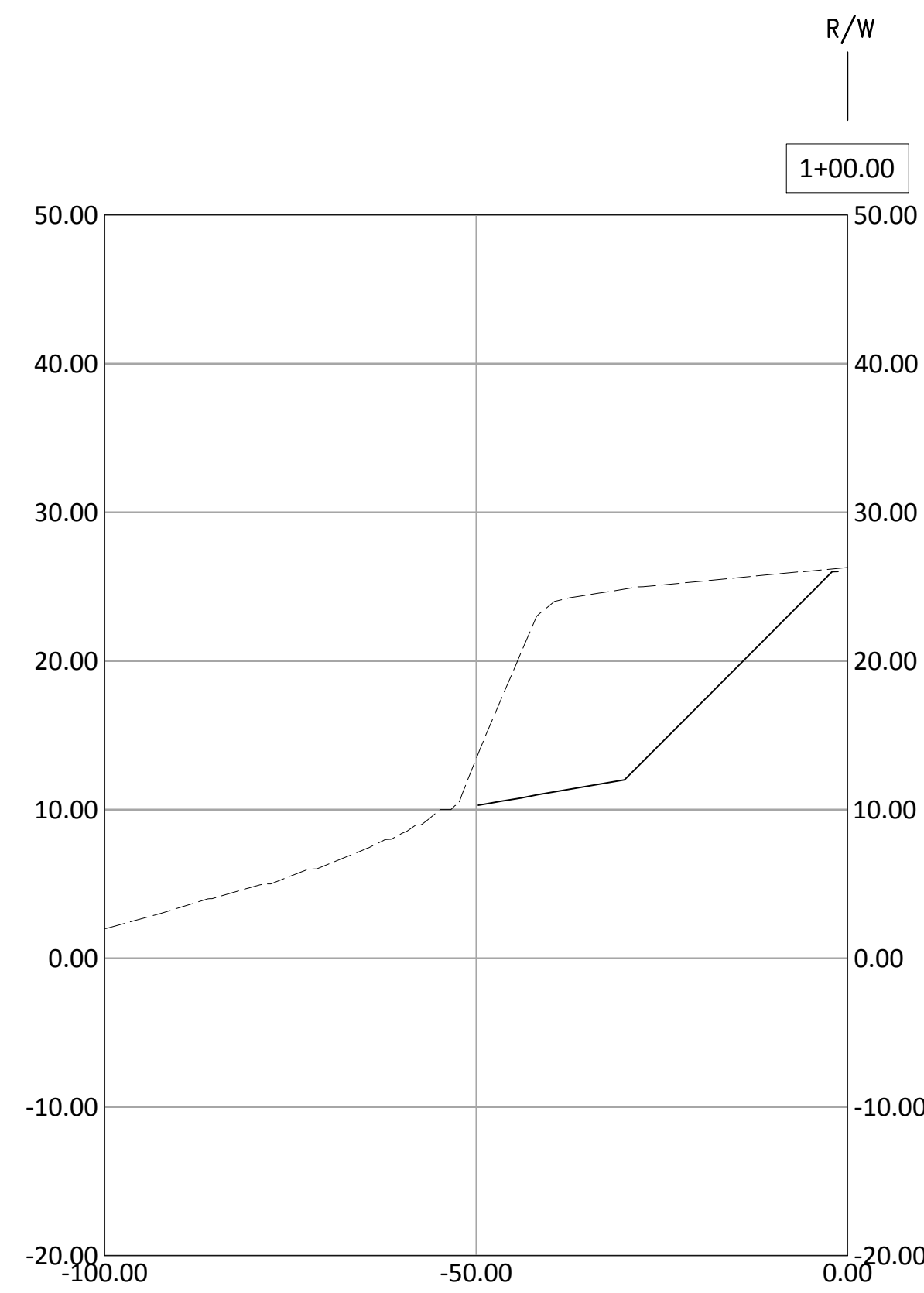
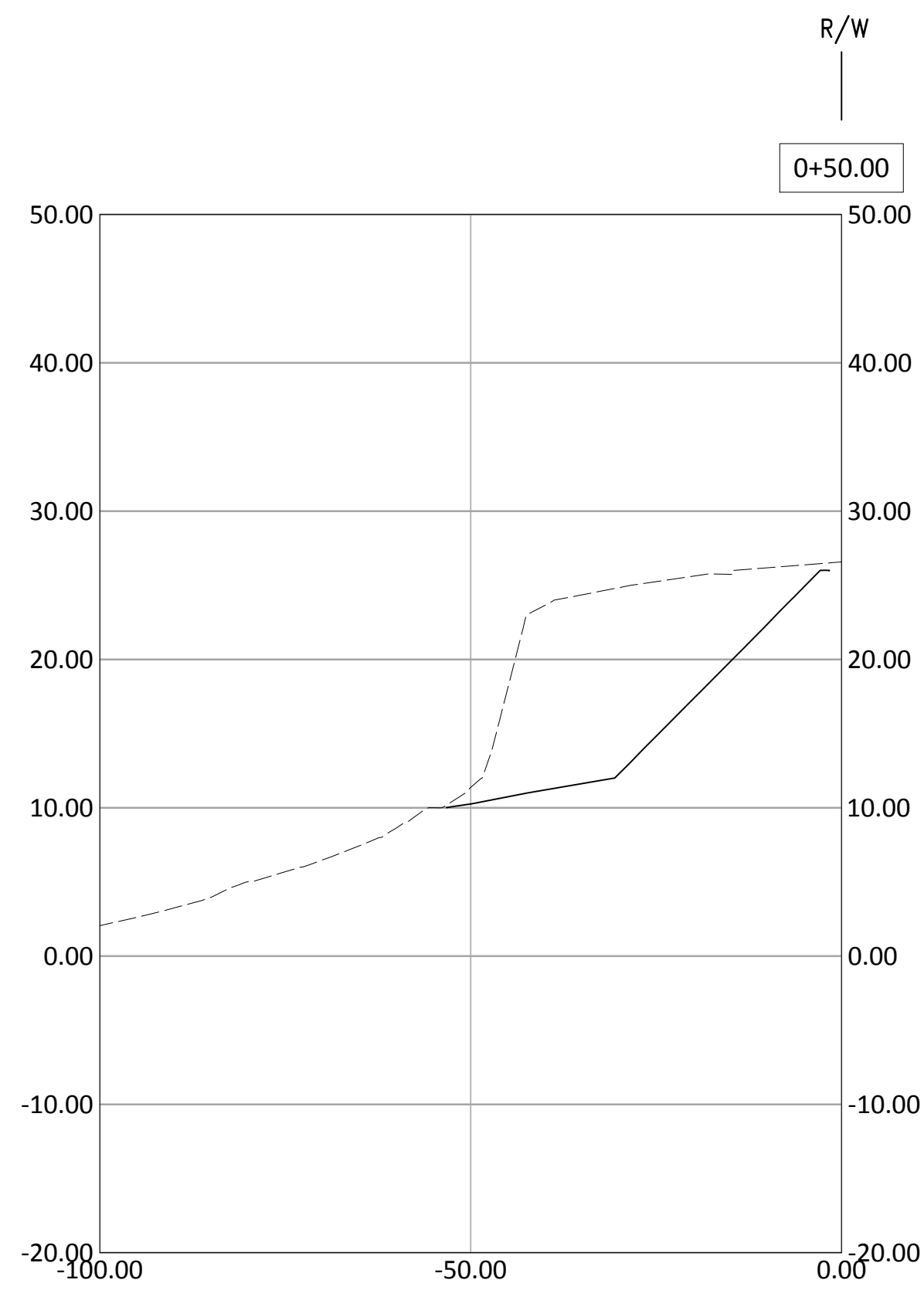
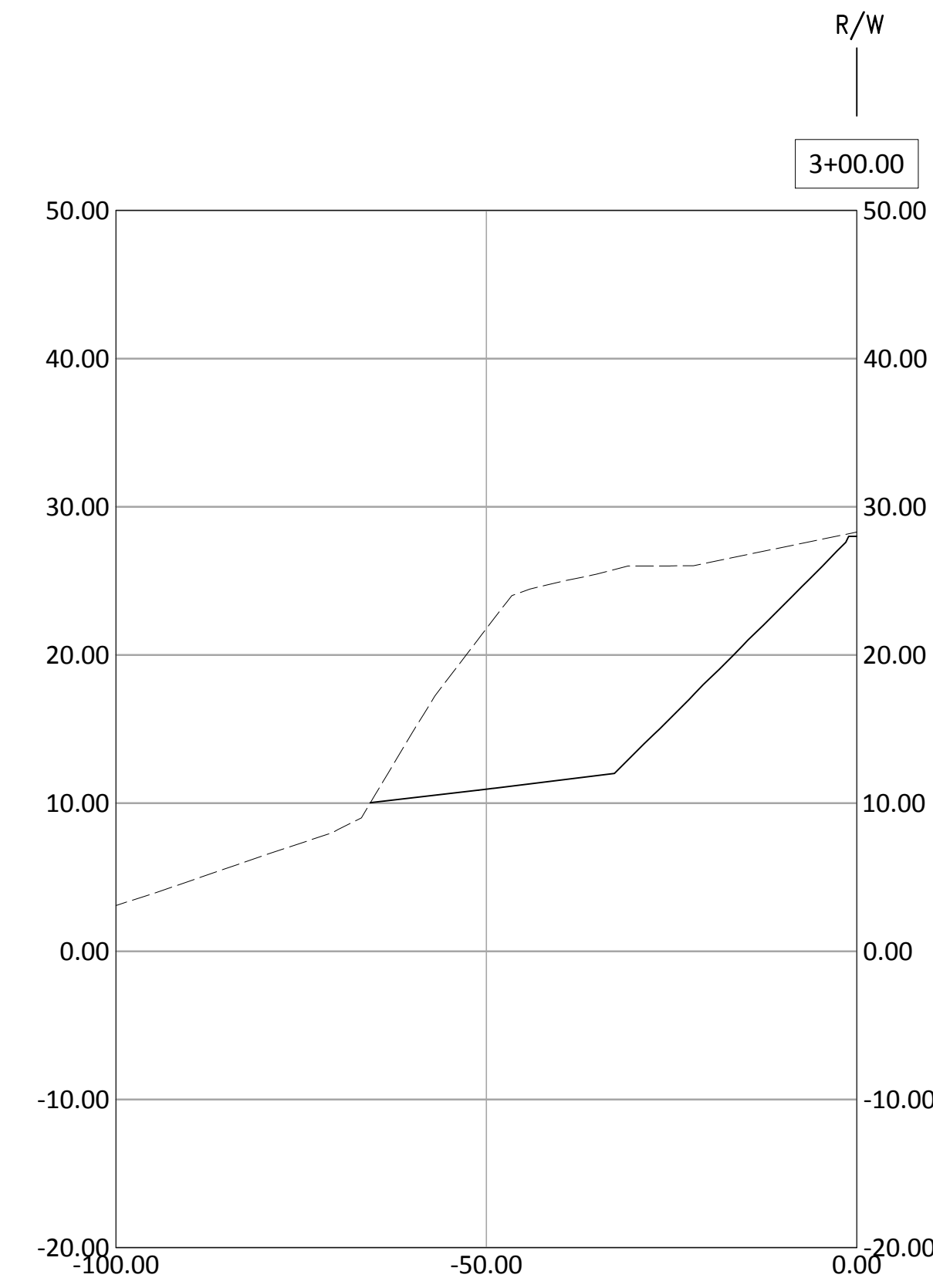
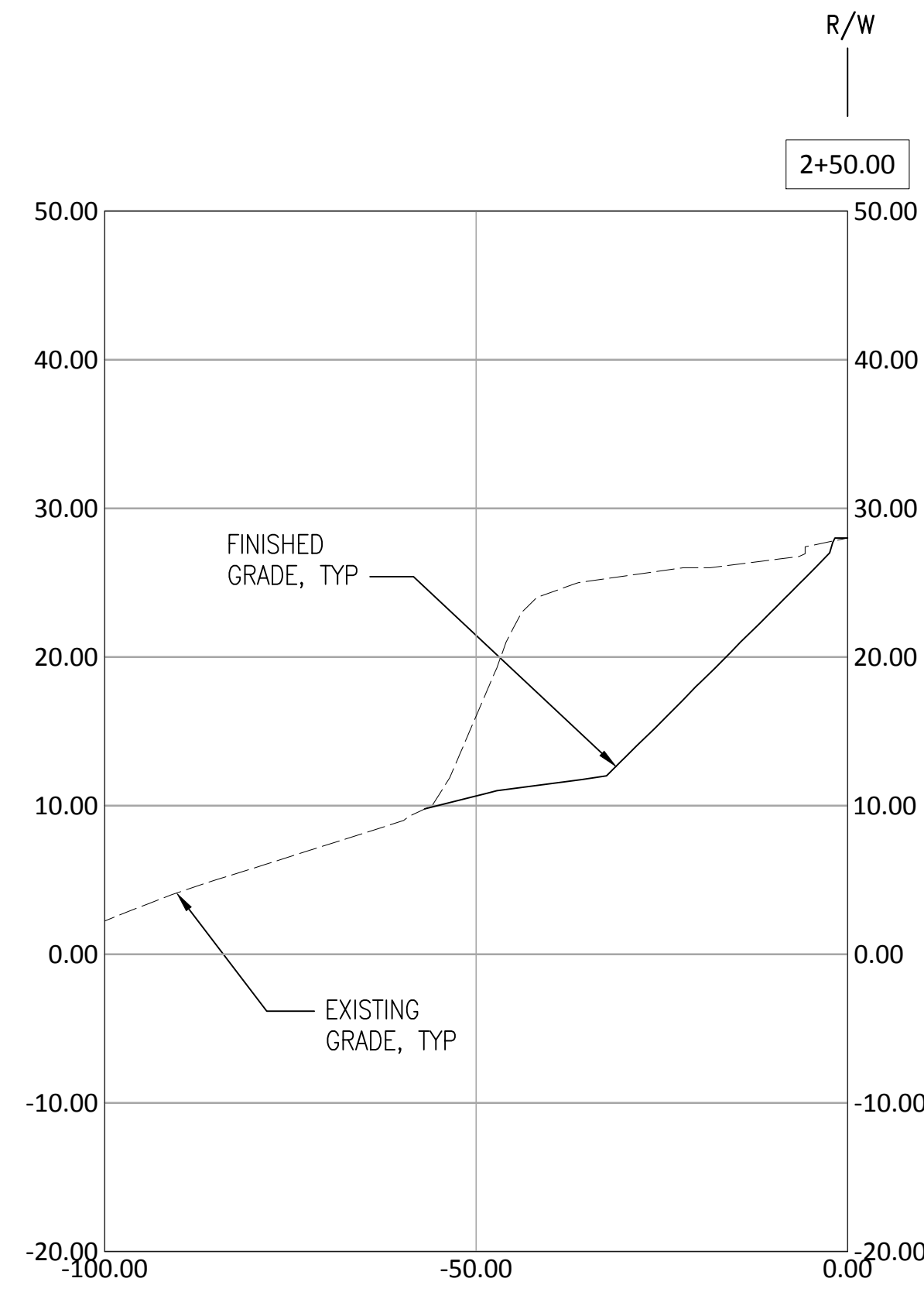
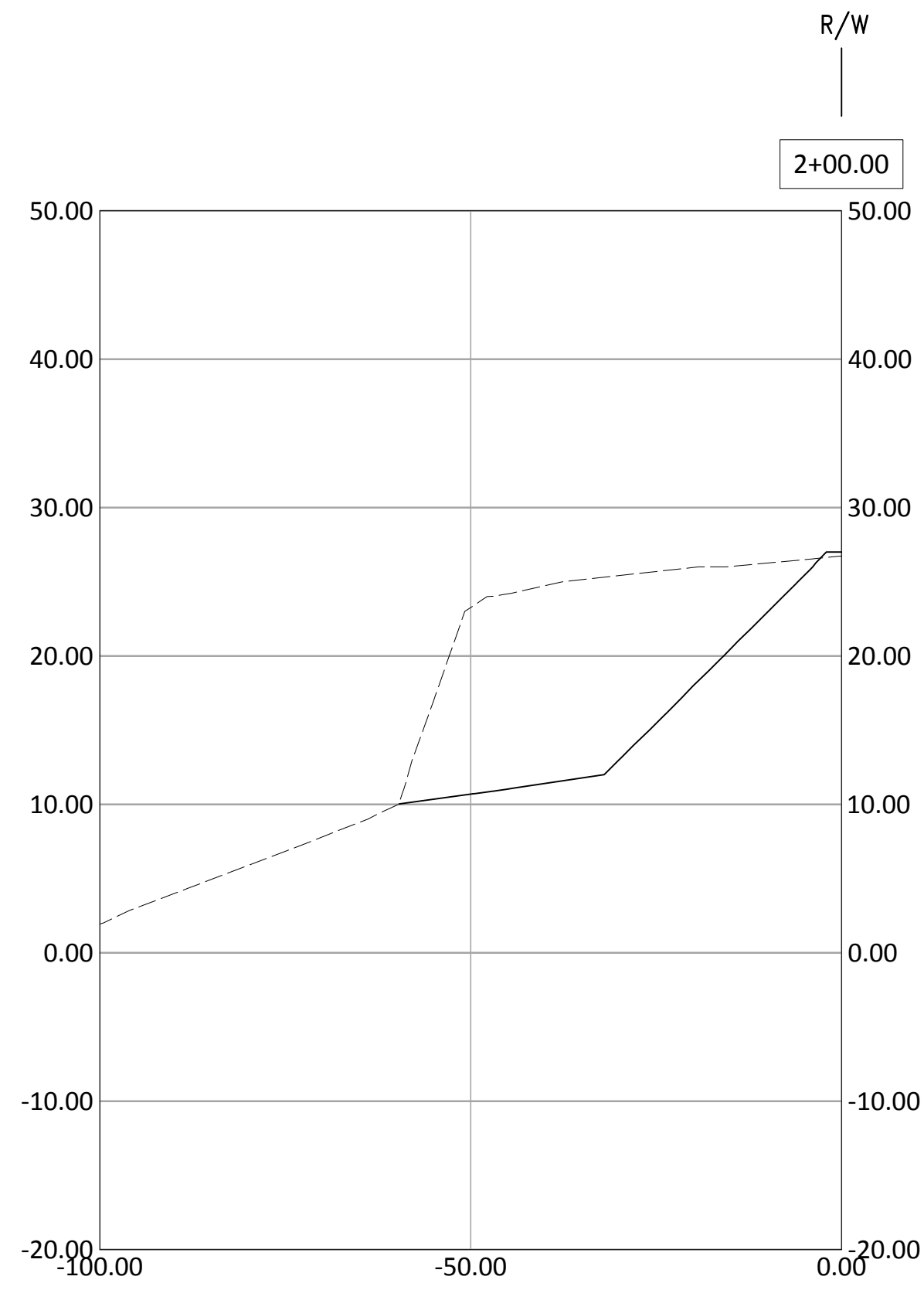


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PROJECT ENGINEER:
JOANNA HINGLE
DESIGN ENGINEER:
ATTILA LASZLO
DRAFTER:
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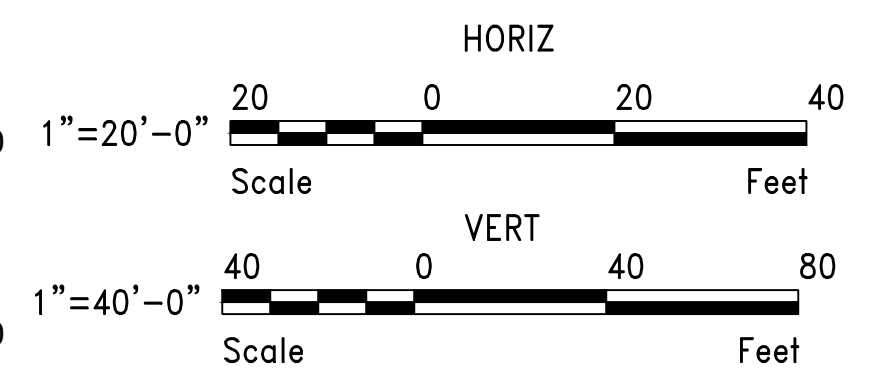
Port of Seattle MARITIME DIVISION
PROJECT: SITE 23 & 25 RESTORATION
SHEET TITLE: **GRADING DATA**
SHEET 3 OF 3

WORK PROJECT NO.
105563
CONSULTANT'S NO.
PORT OF SEATTLE NO.
117-1201 C8.7

SITE 25



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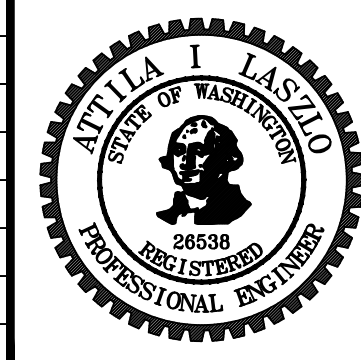


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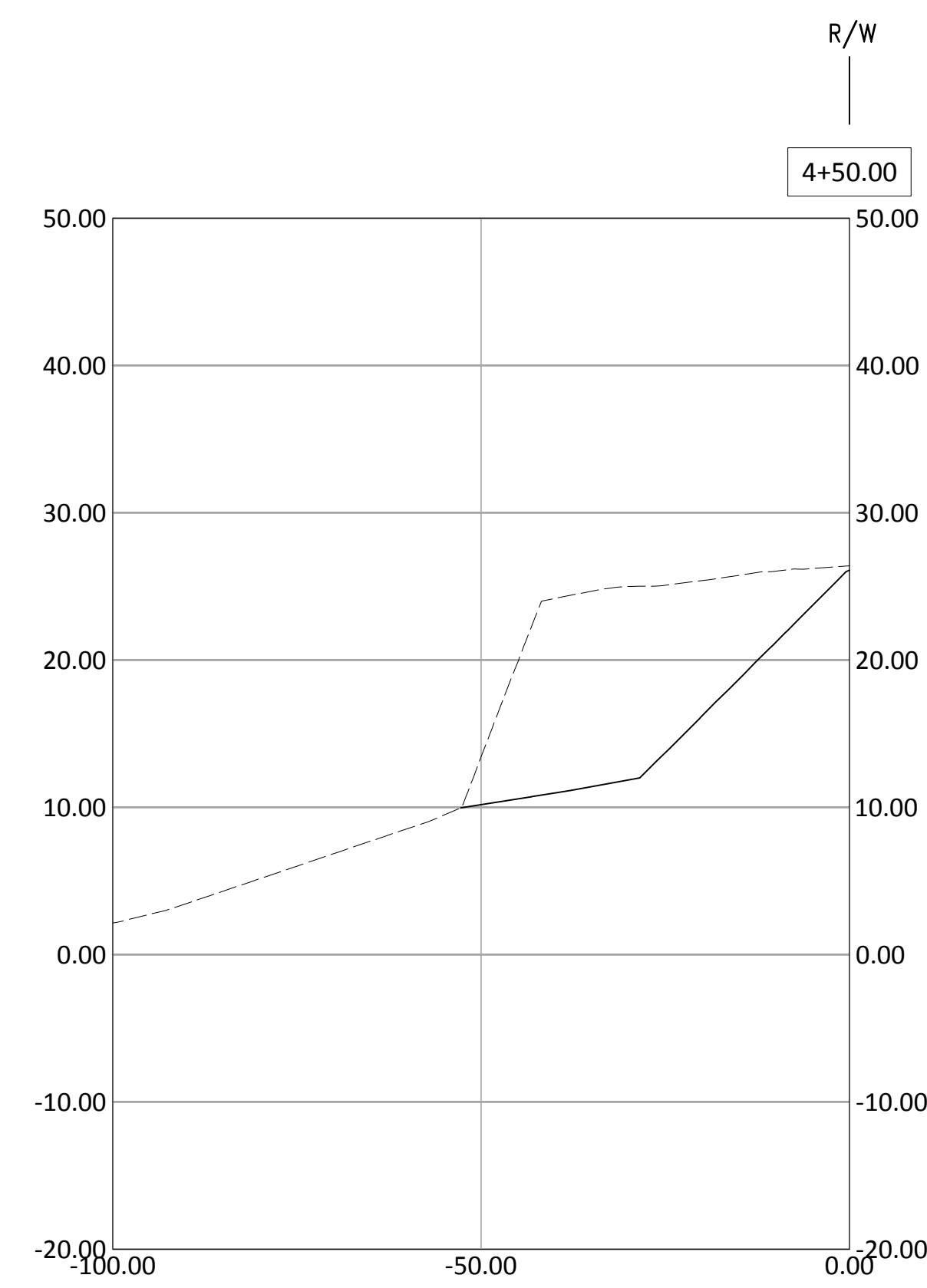
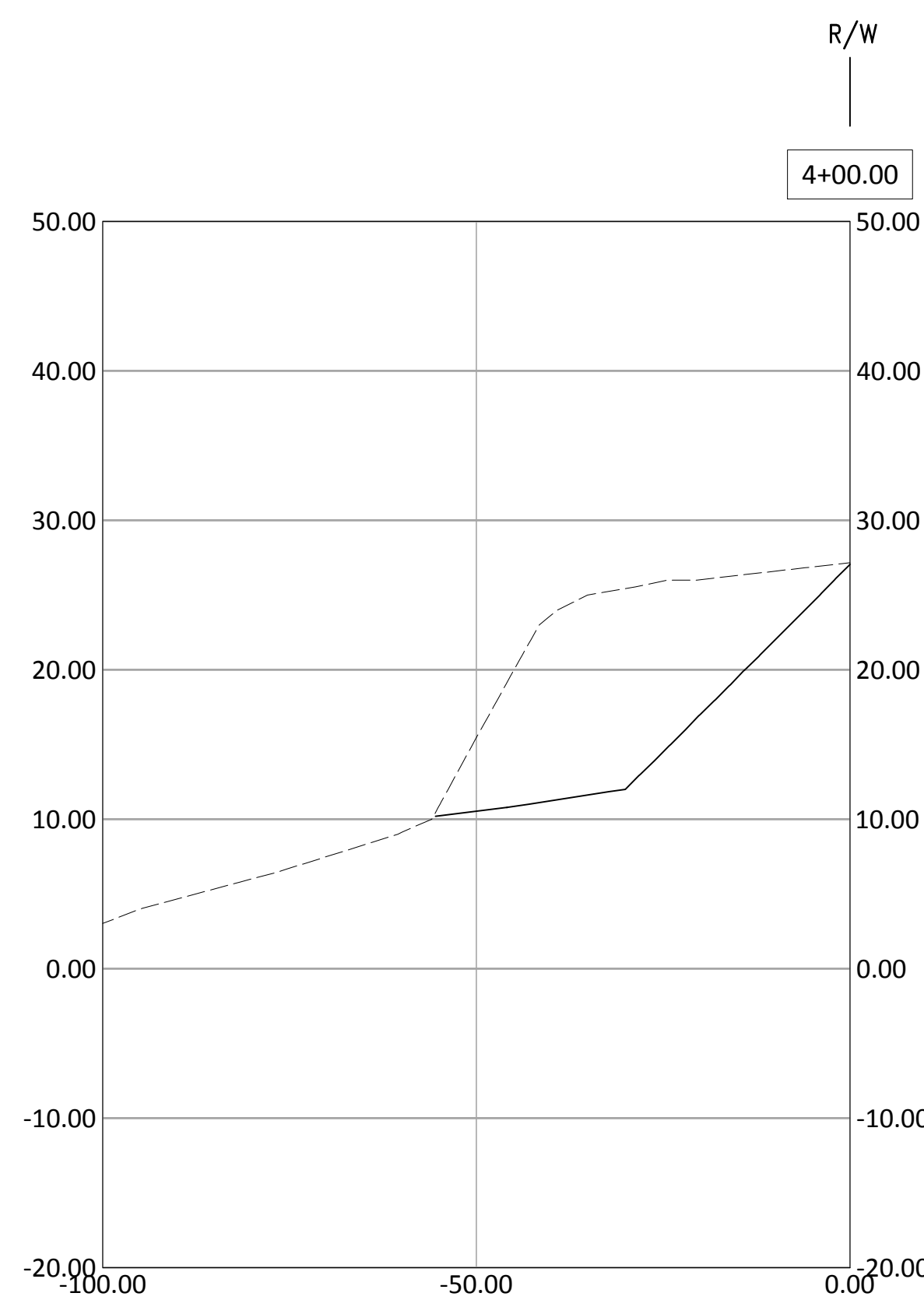
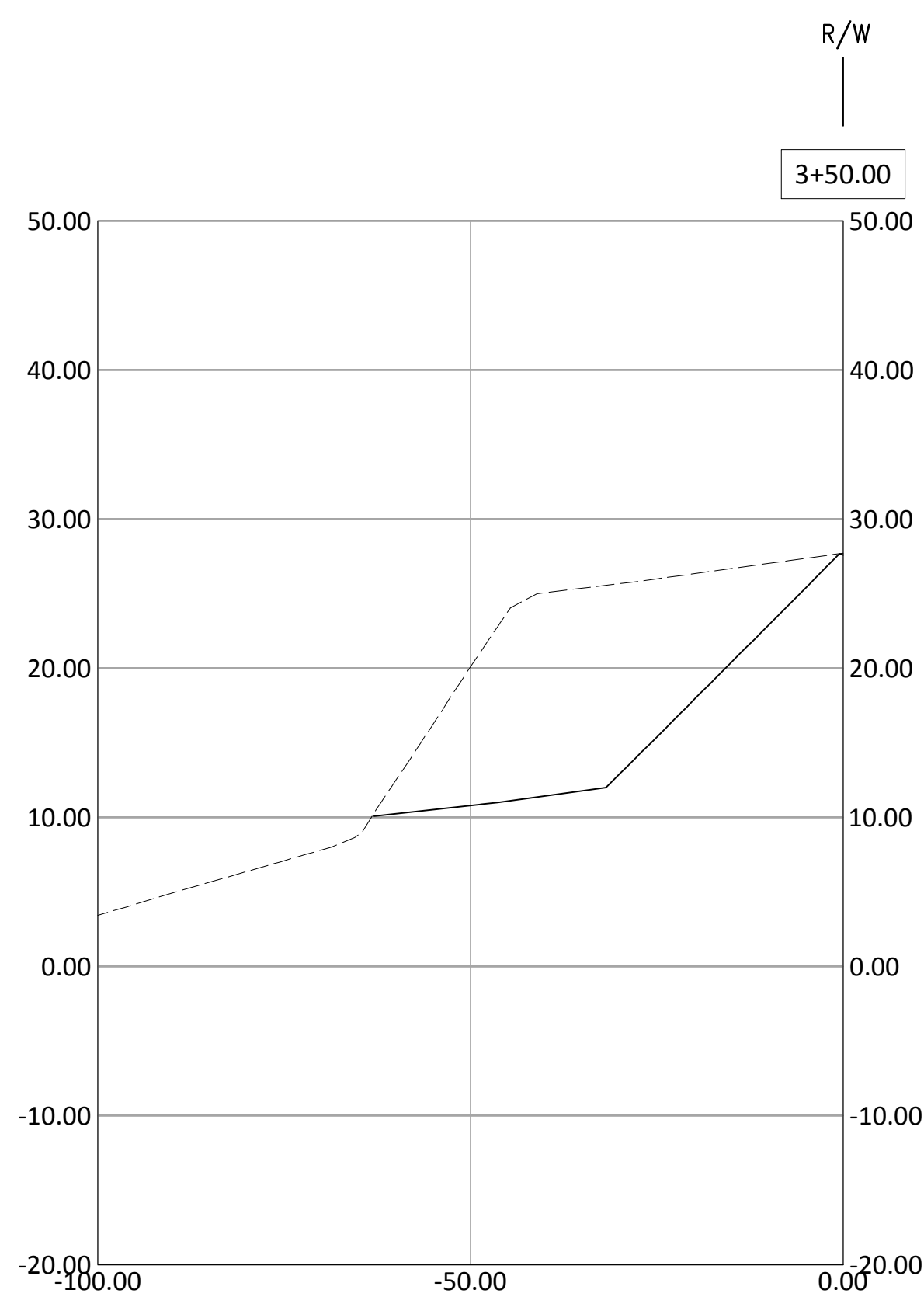
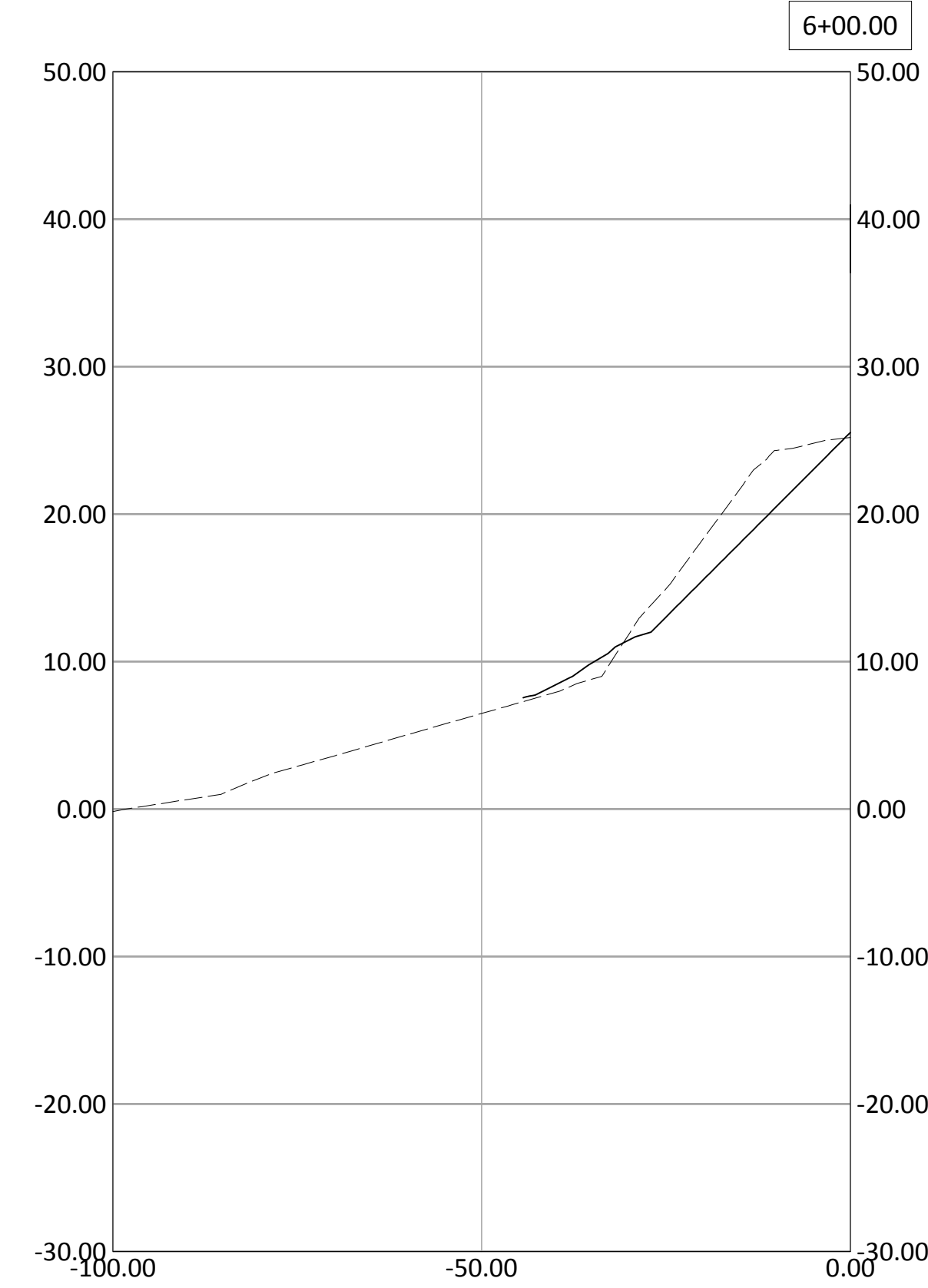
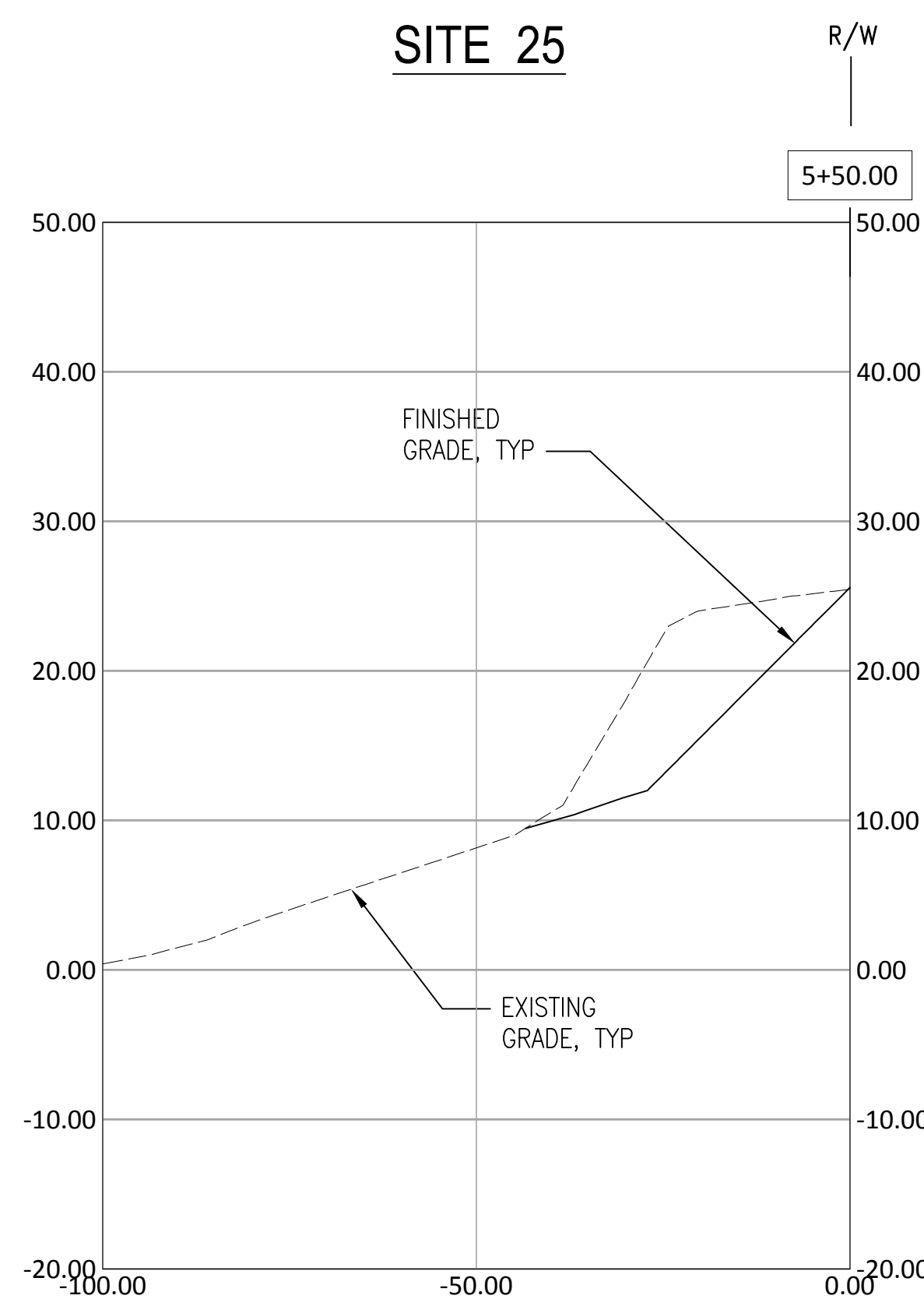
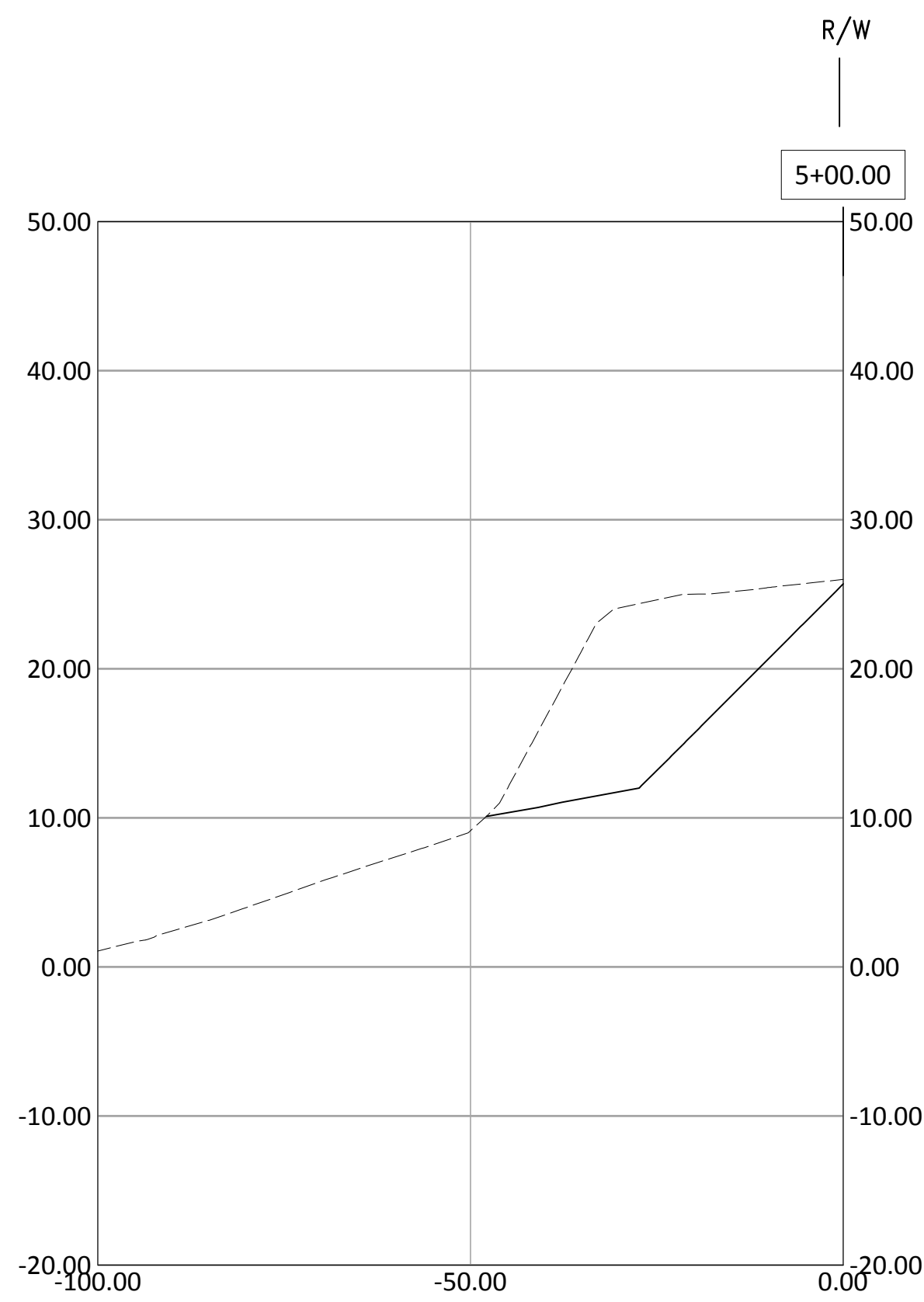


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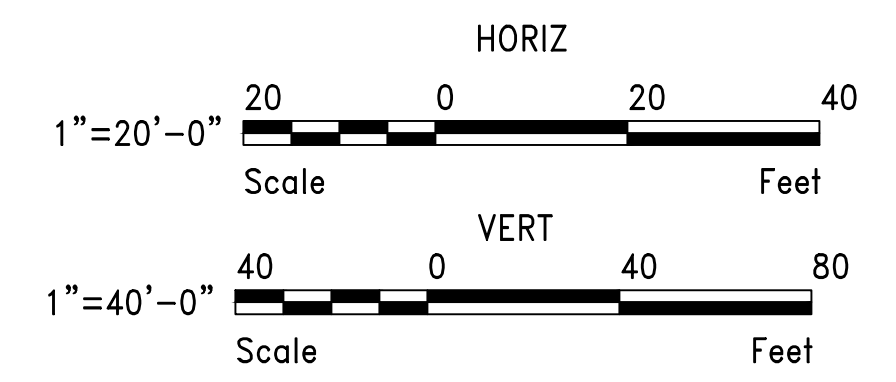
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PROJECT: **SITE 23 & 25 RESTORATION**
SHEET TITLE: **GRADING SECTIONS - SITE 25 SHEET 1**

WORK PROJECT NO.
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CONSULTANT'S NO.
PORT OF SEATTLE NO.
117-1201 **C8.8**

SITE 25



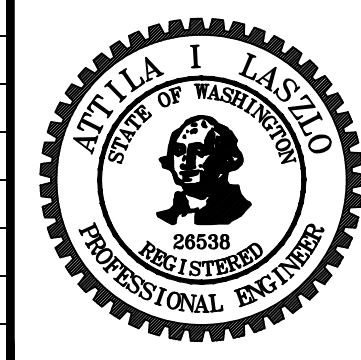
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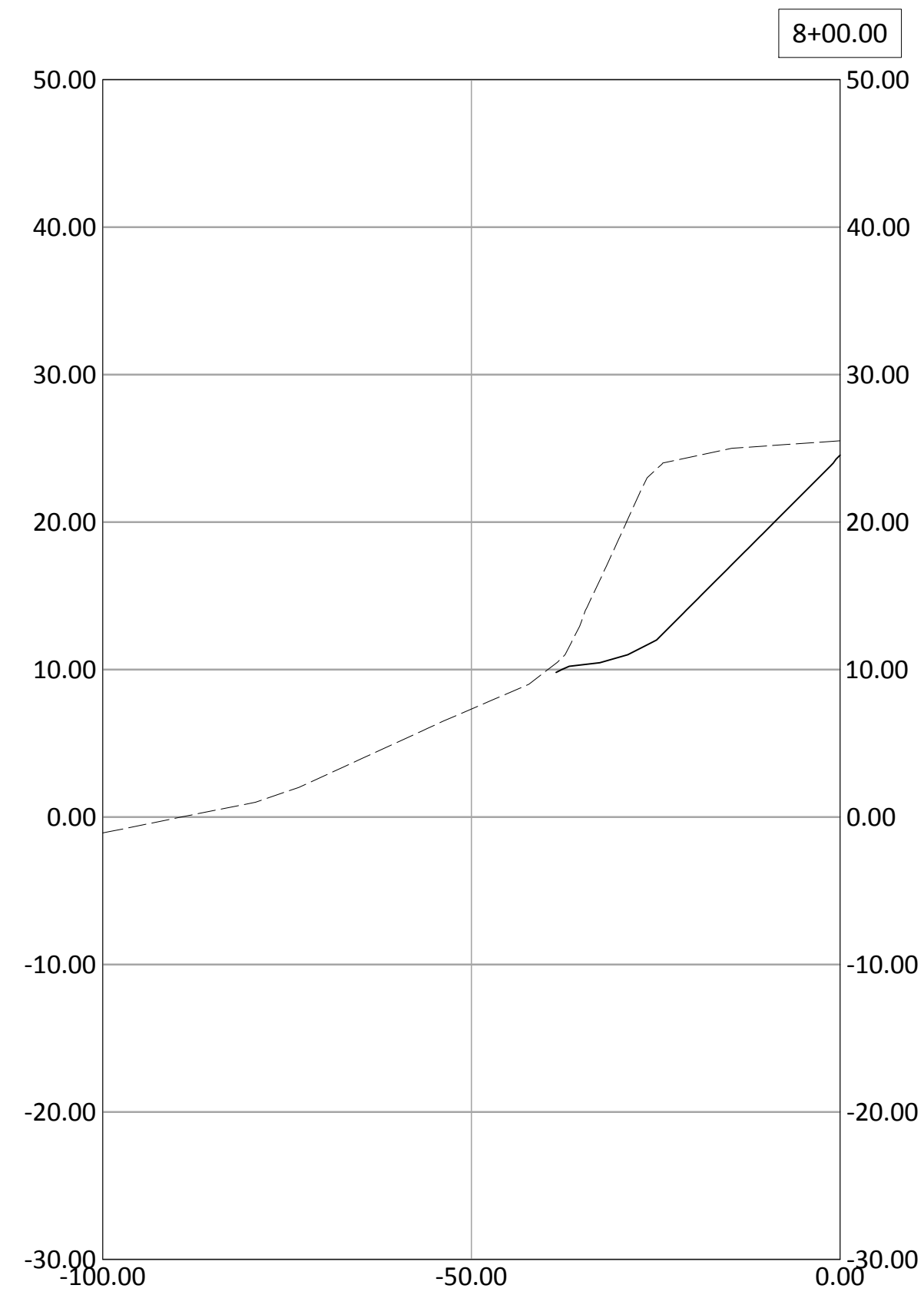
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JOANNA HINGLE
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SHEET TITLE: **GRADING SECTIONS - SITE 25 SHEET 2**

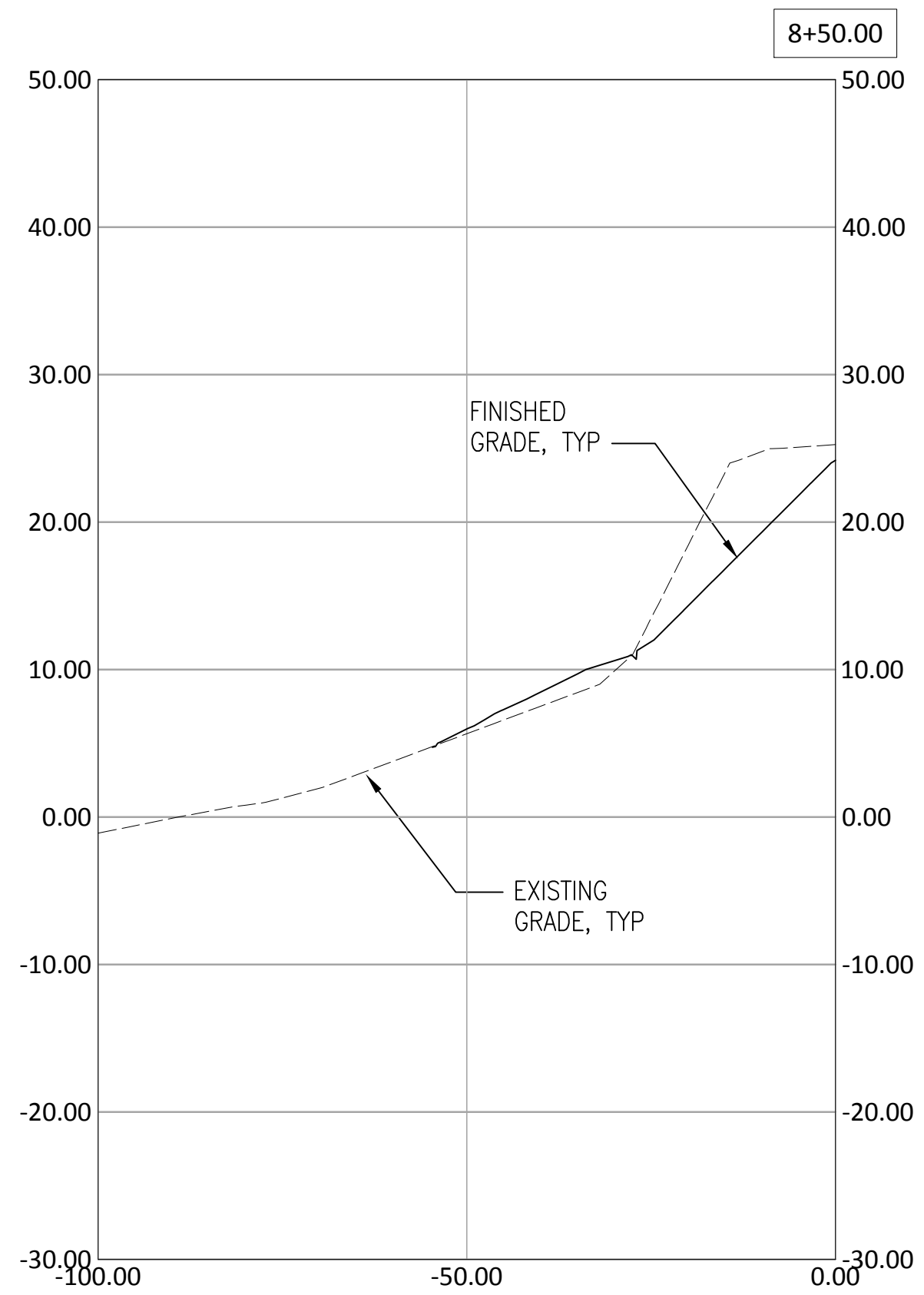
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117-1201 **C8.9**

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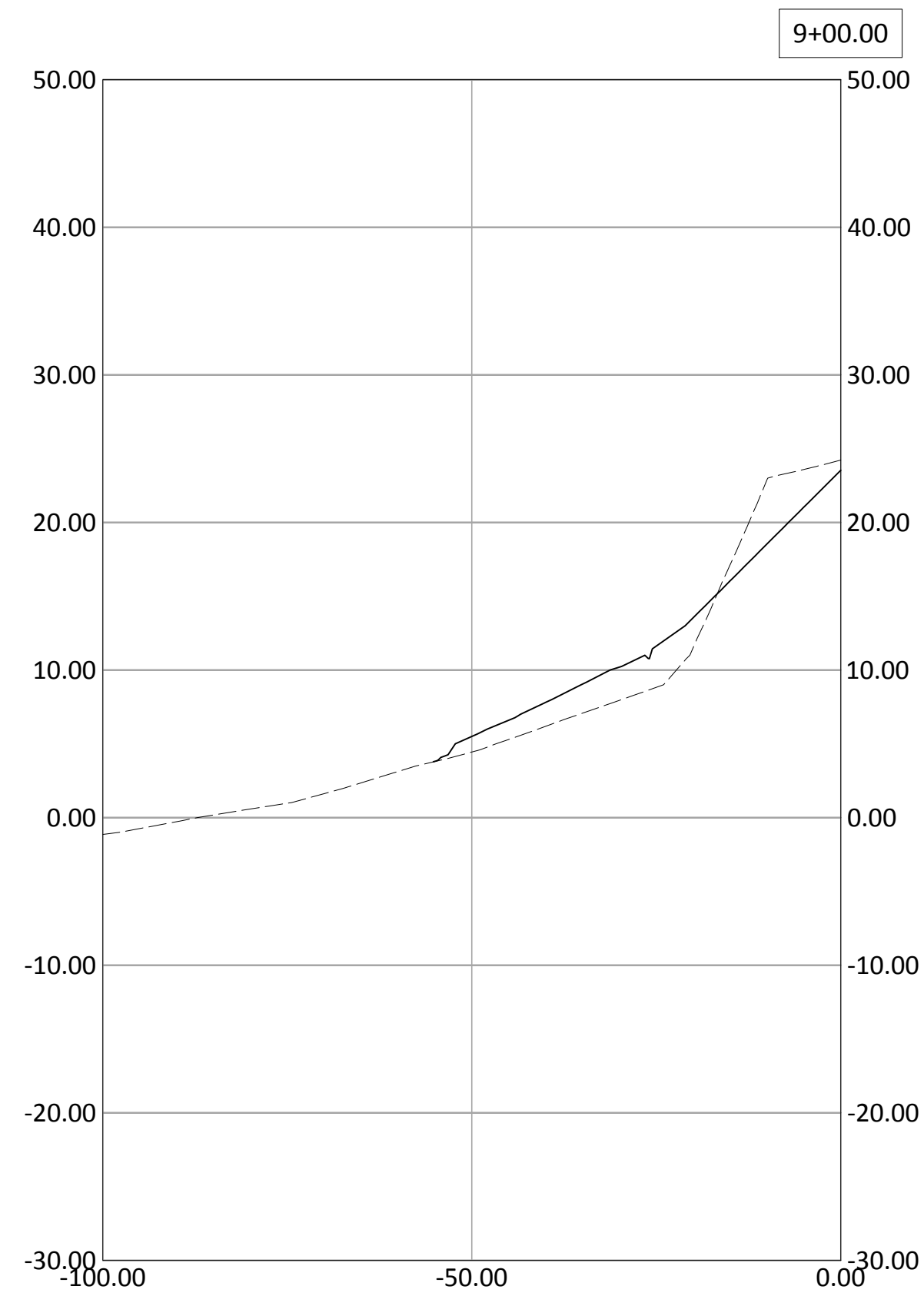
SITE 25



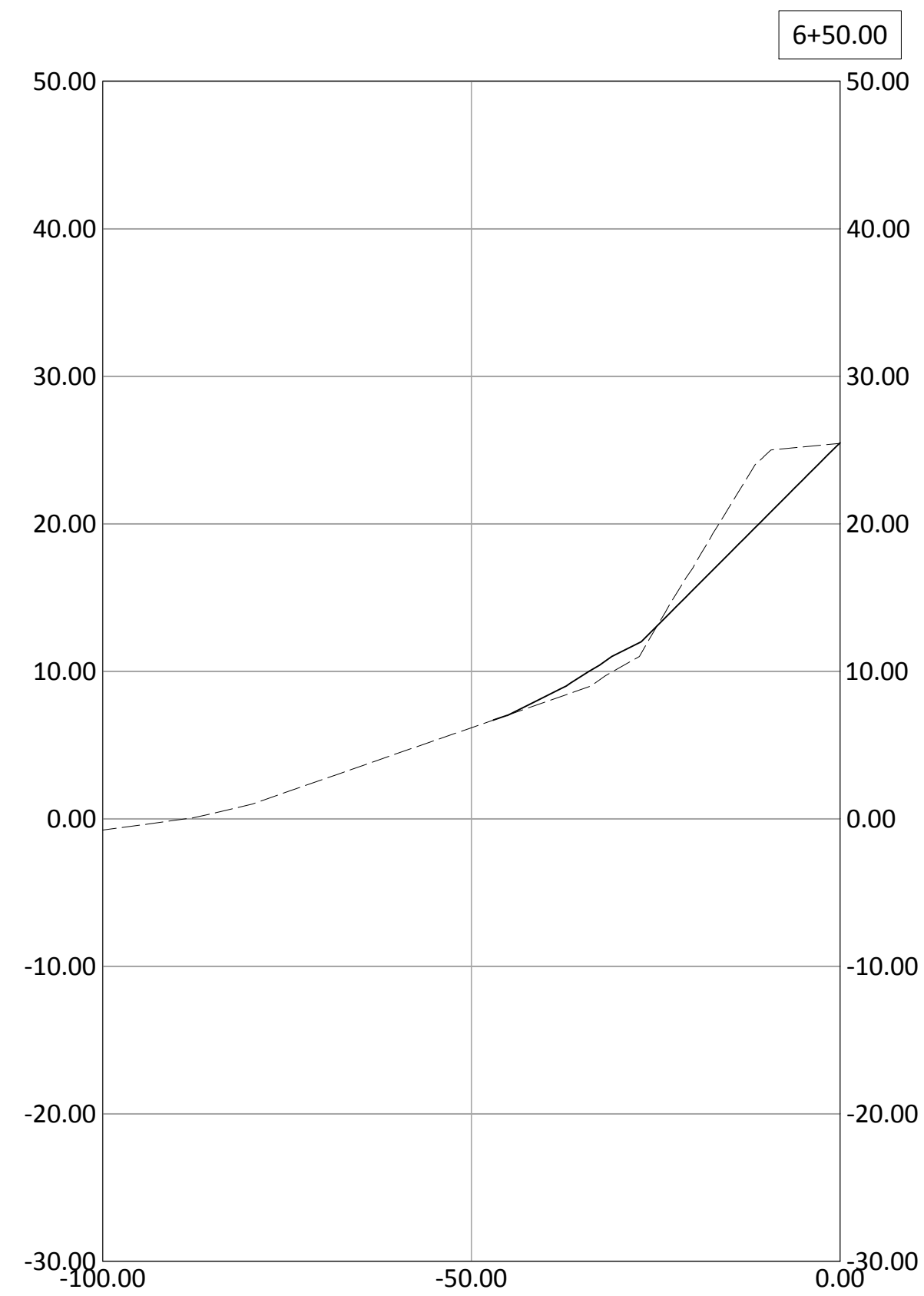
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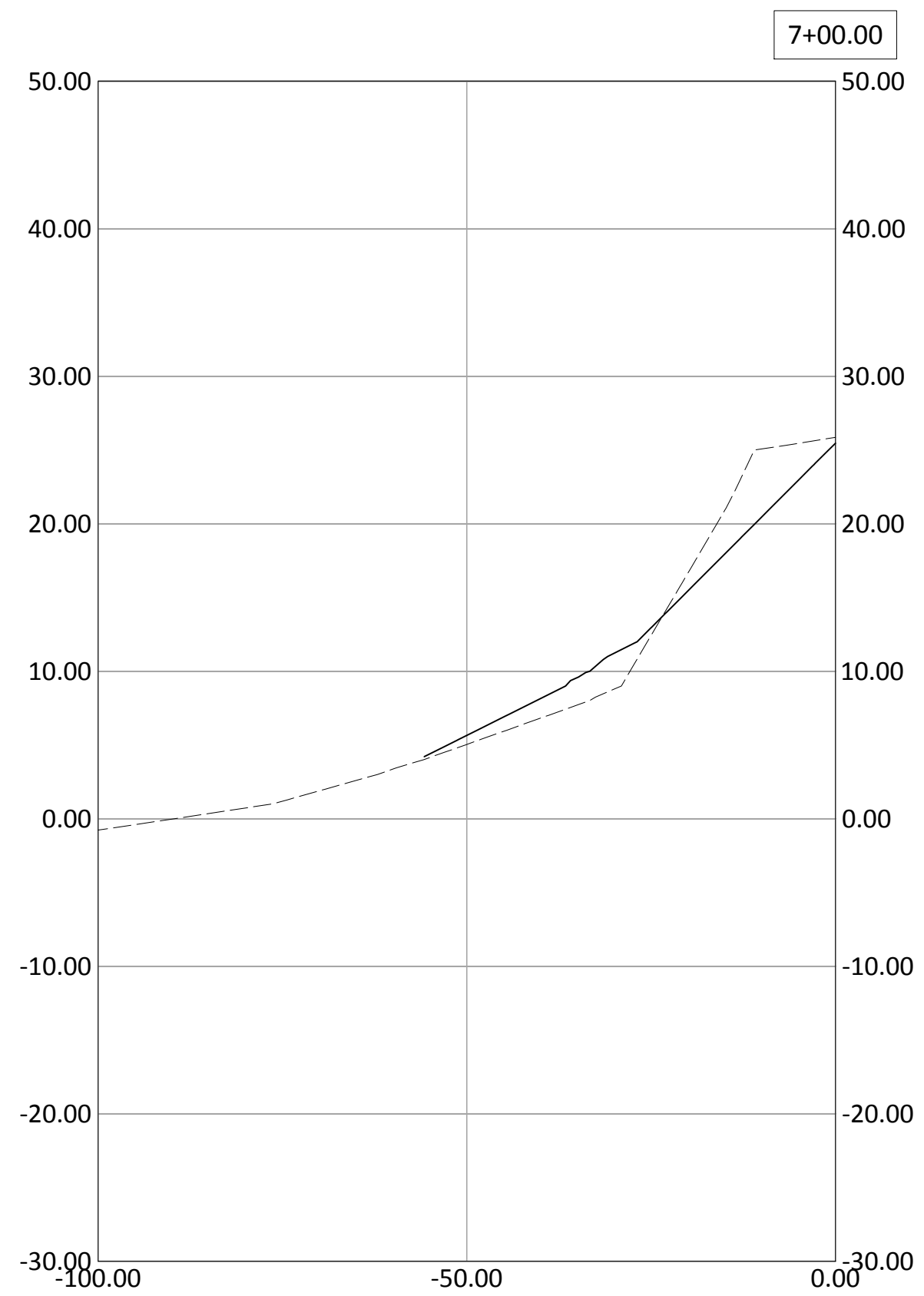
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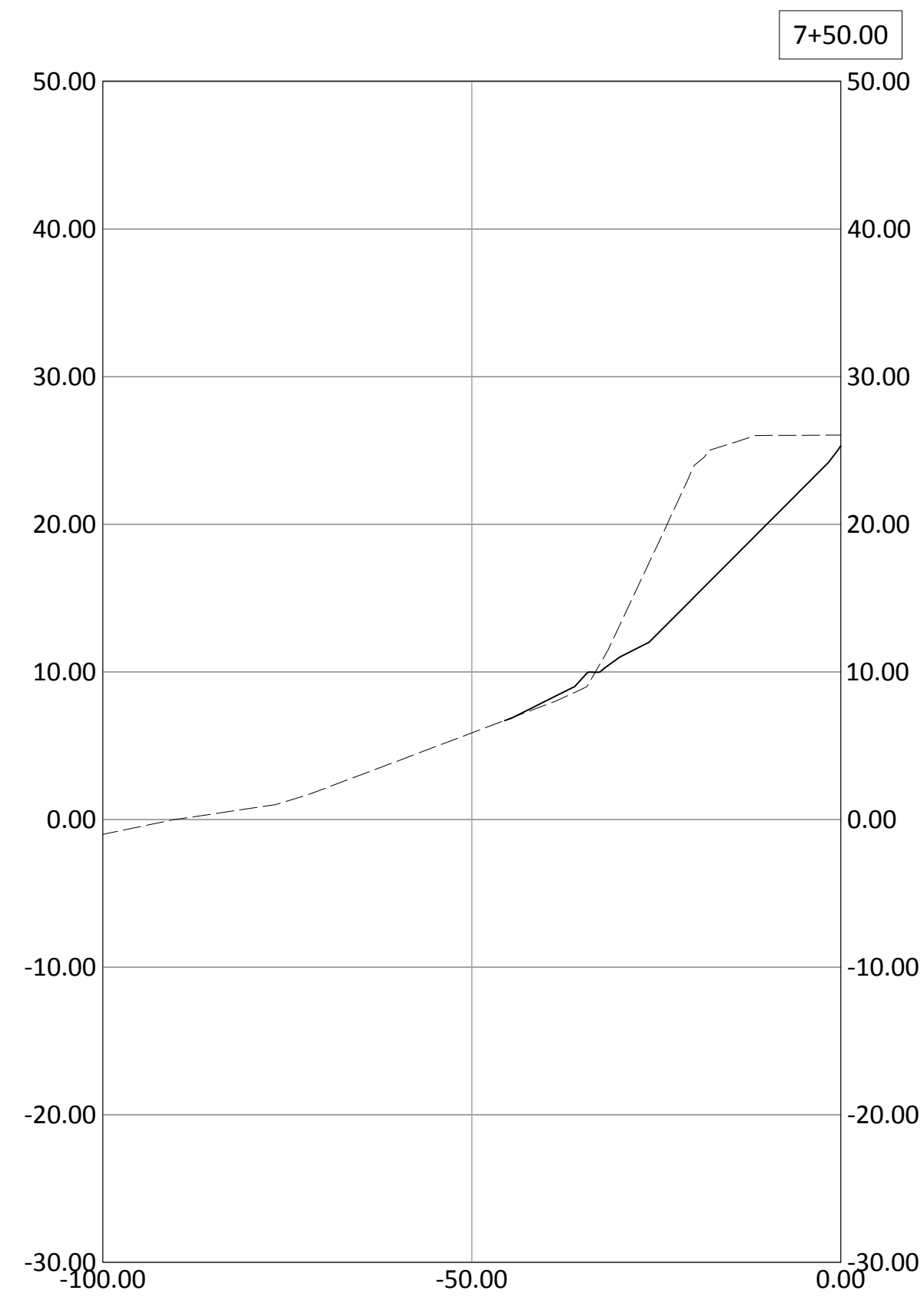
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R/W

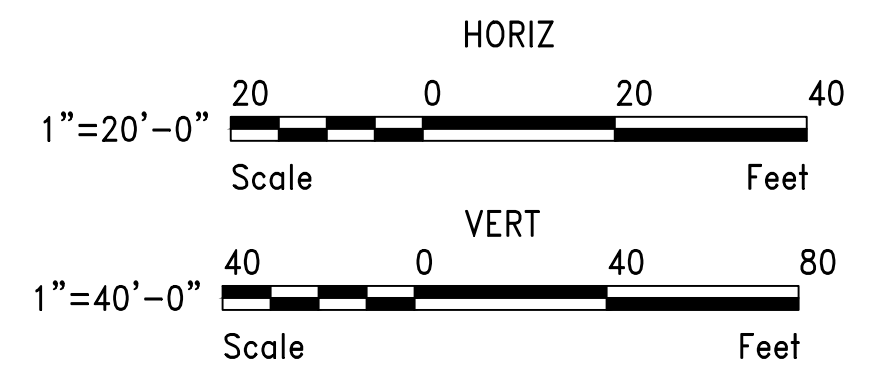


R/W



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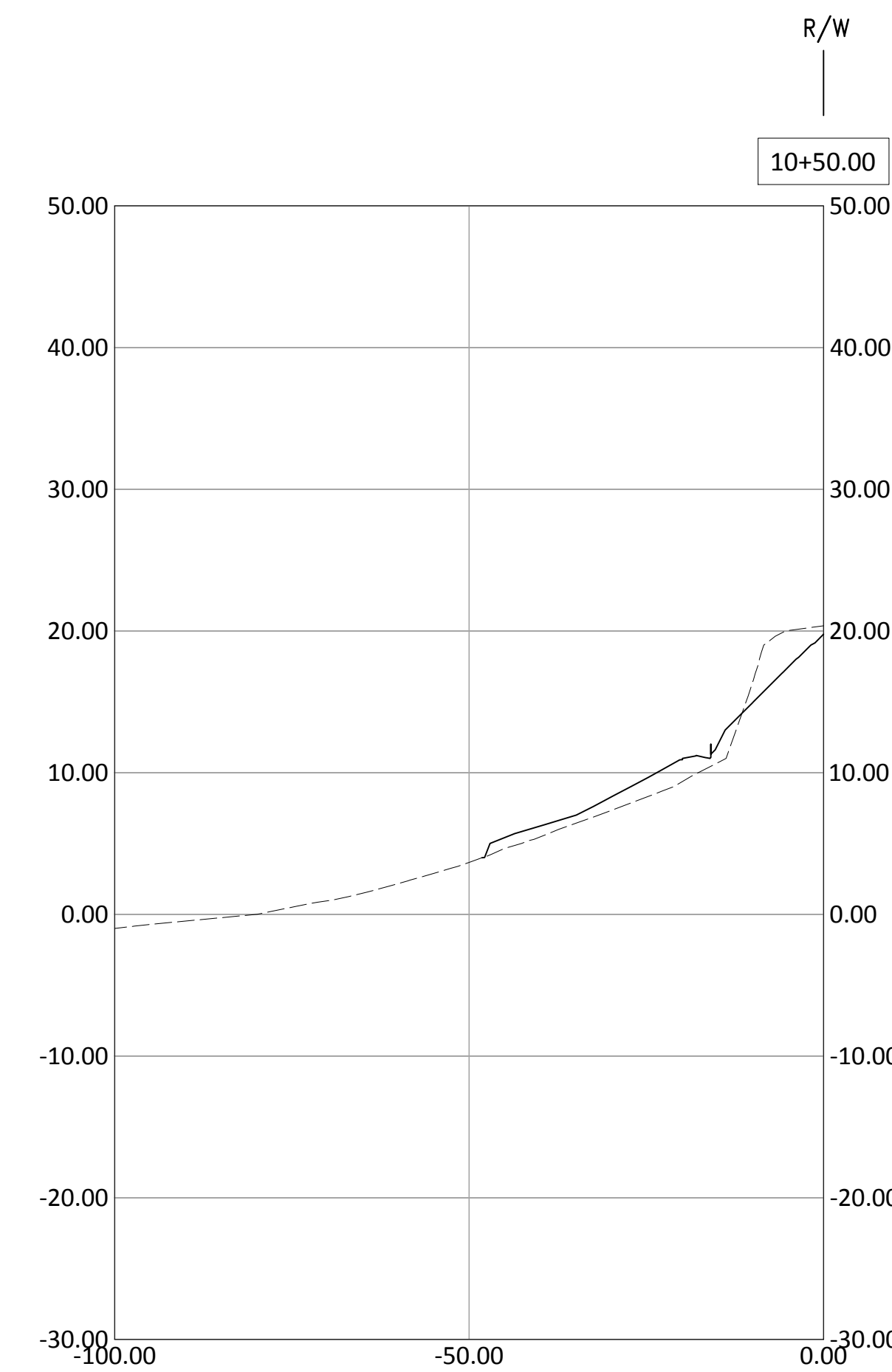
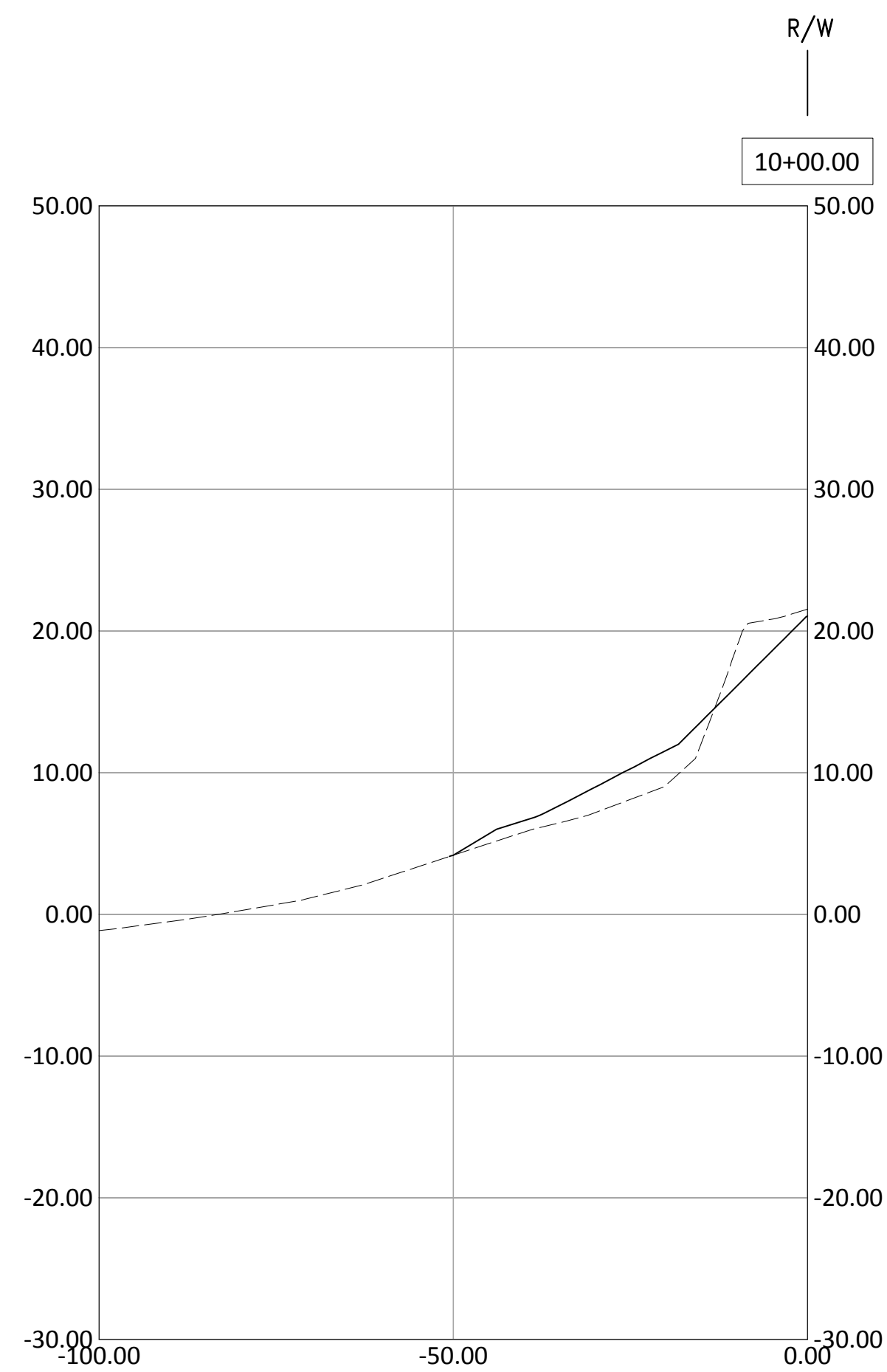
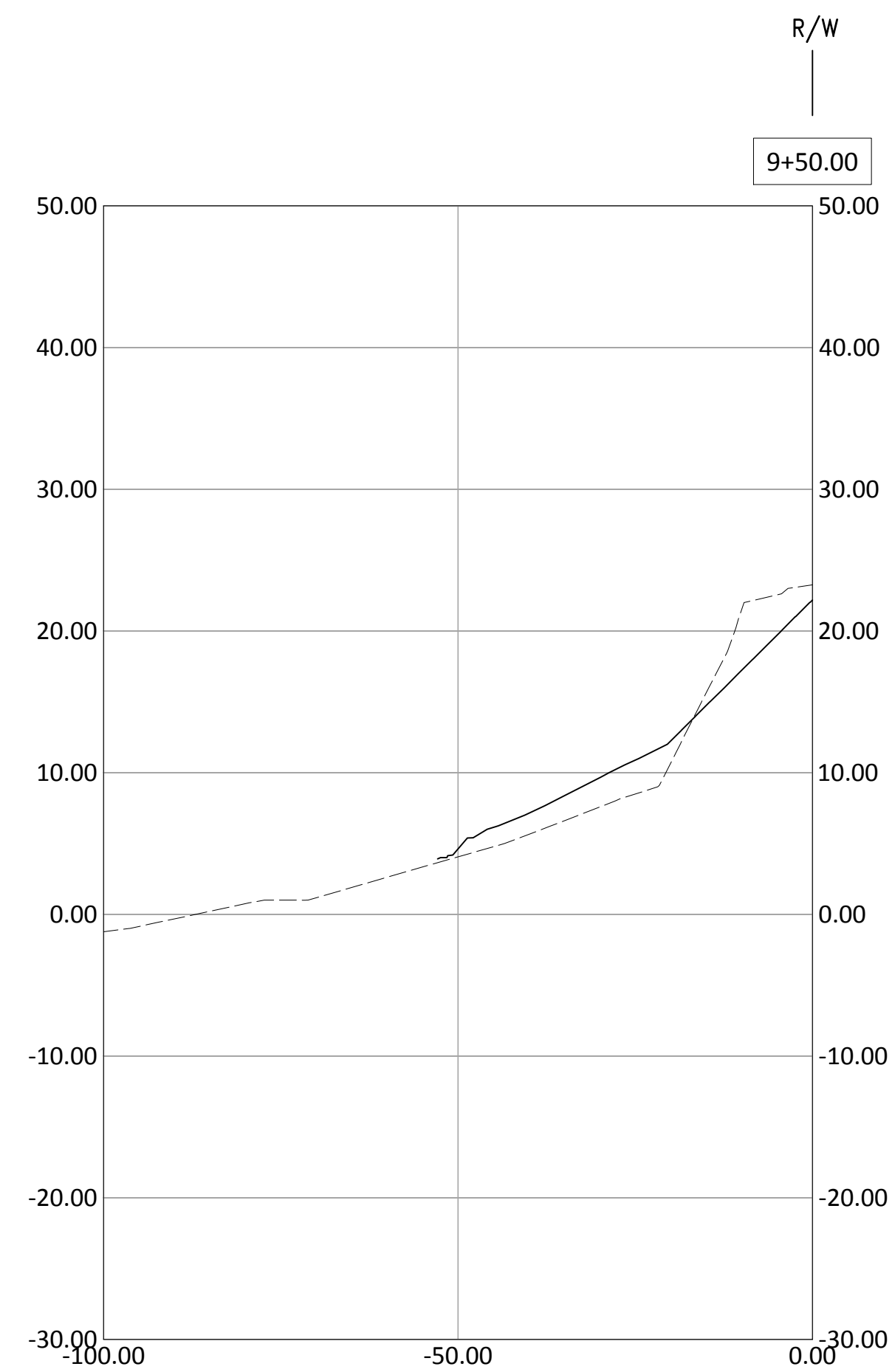
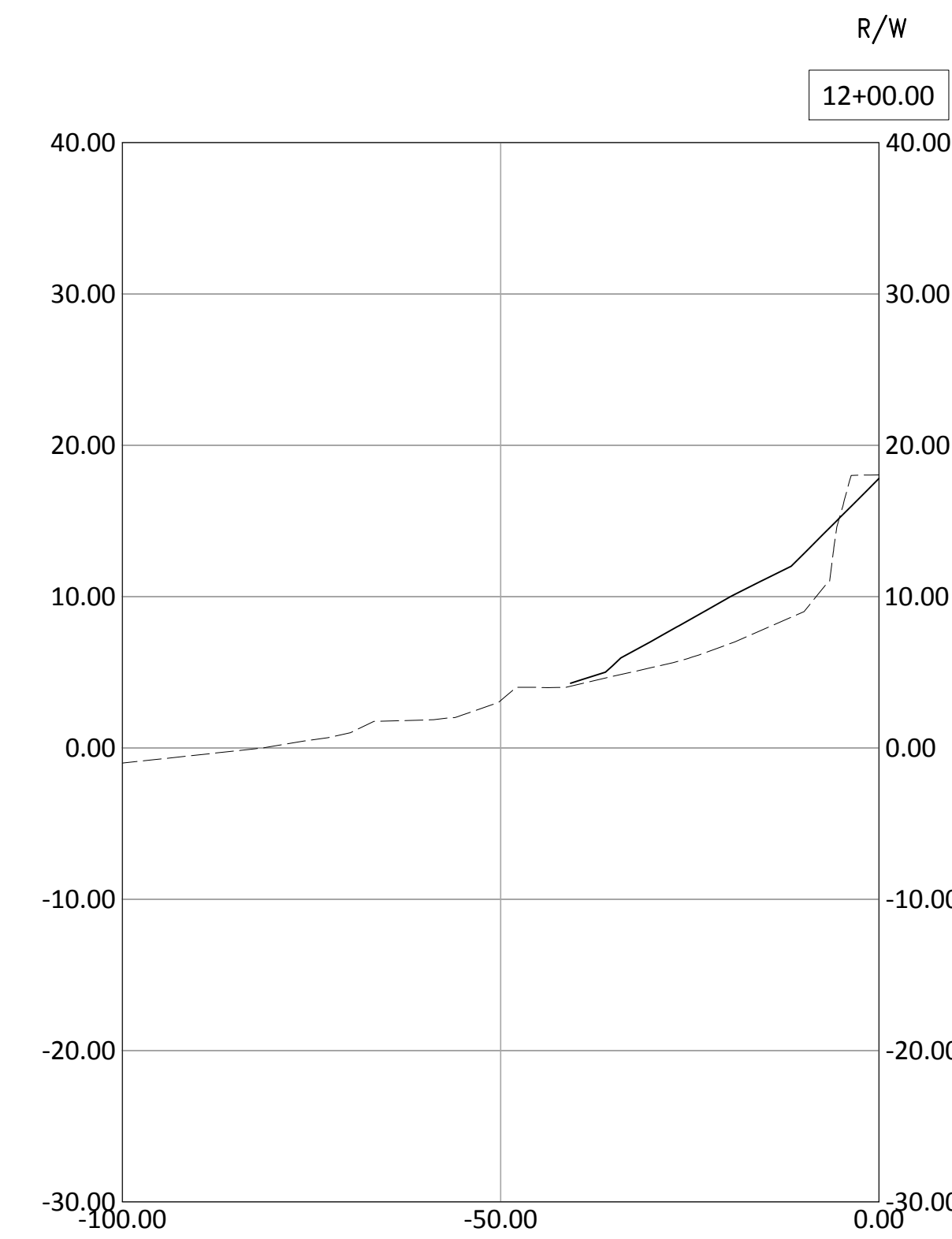
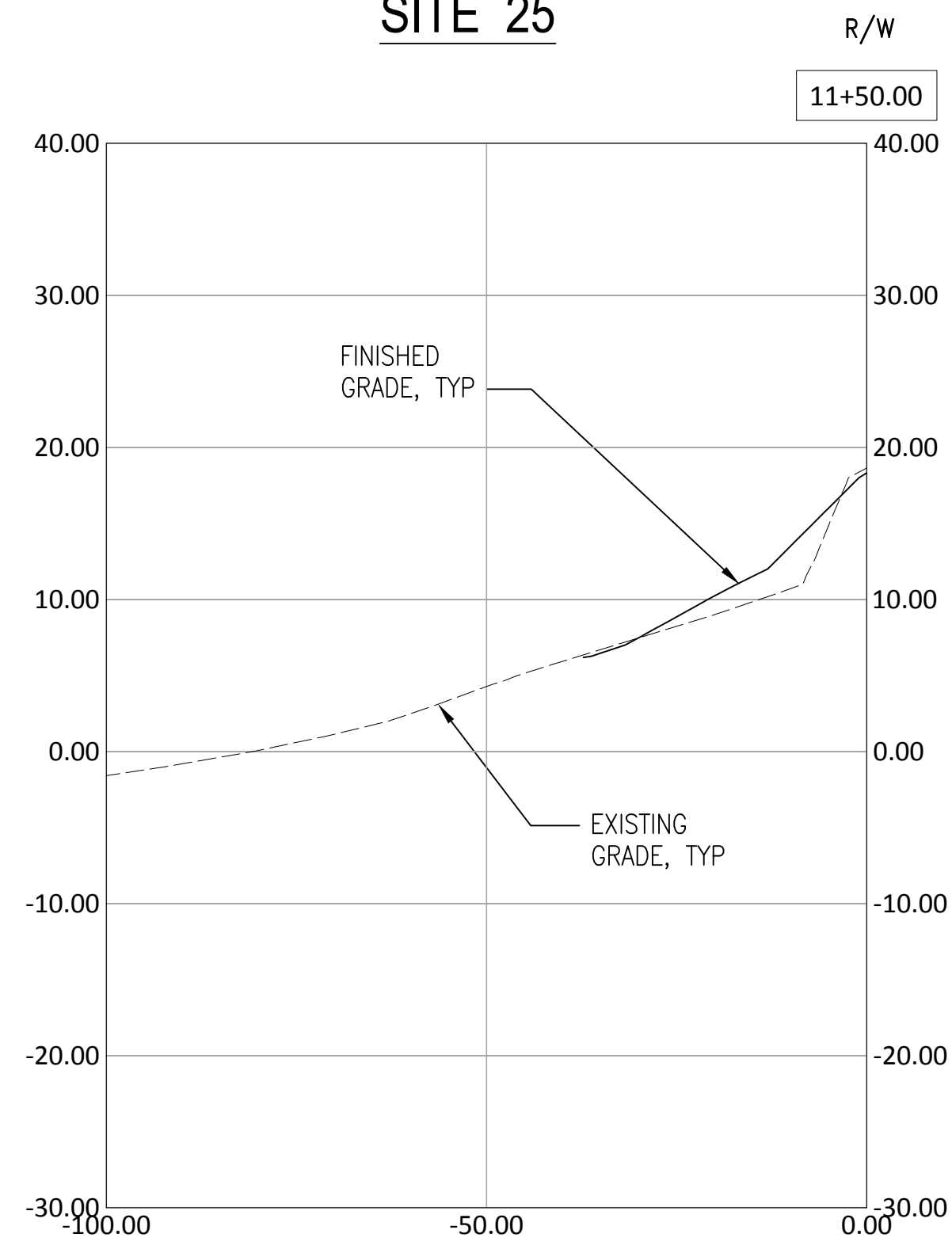
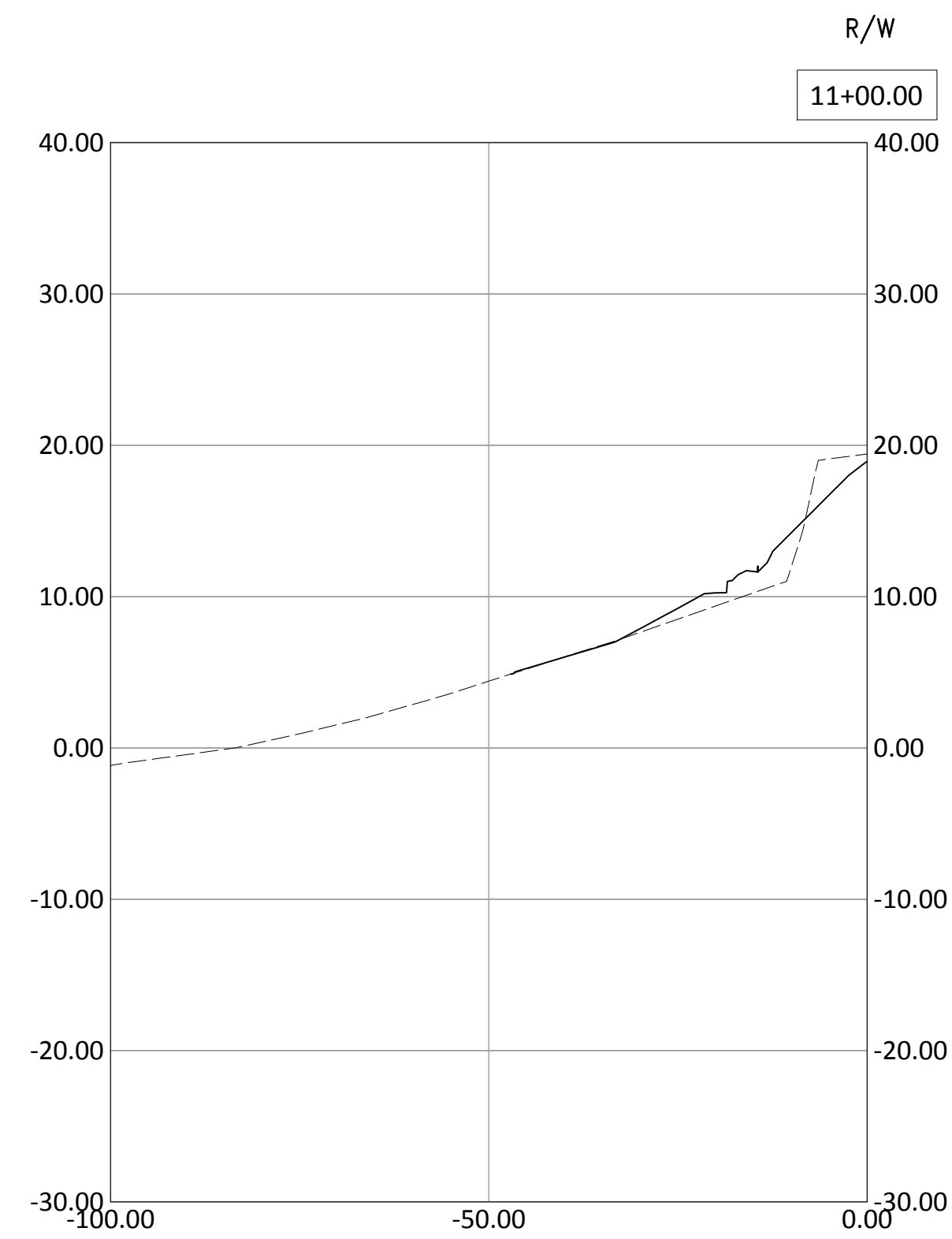
PROJECT: **SITE 23 & 25 RESTORATION**

SHEET TITLE: **GRADING SECTIONS - SITE 25 SHEET 3**

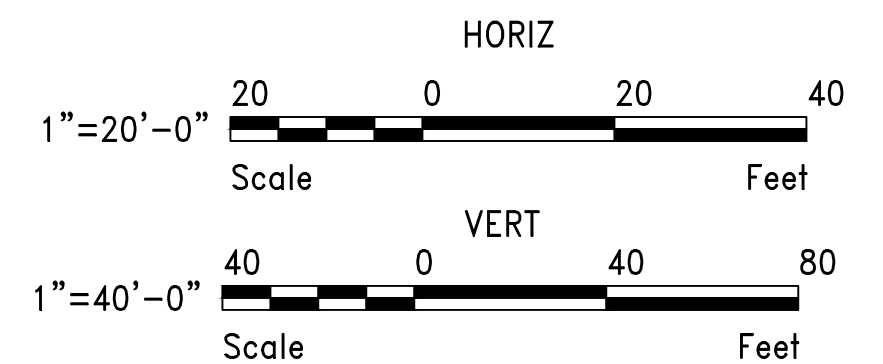
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105563
CONSULTANT'S NO.
PORT OF SEATTLE NO.
117-1201 **C8.10**

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SITE 25



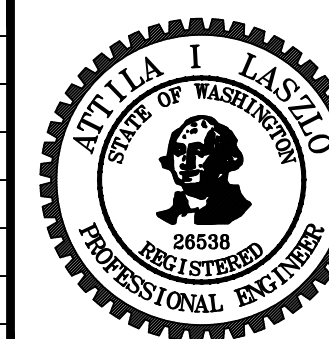
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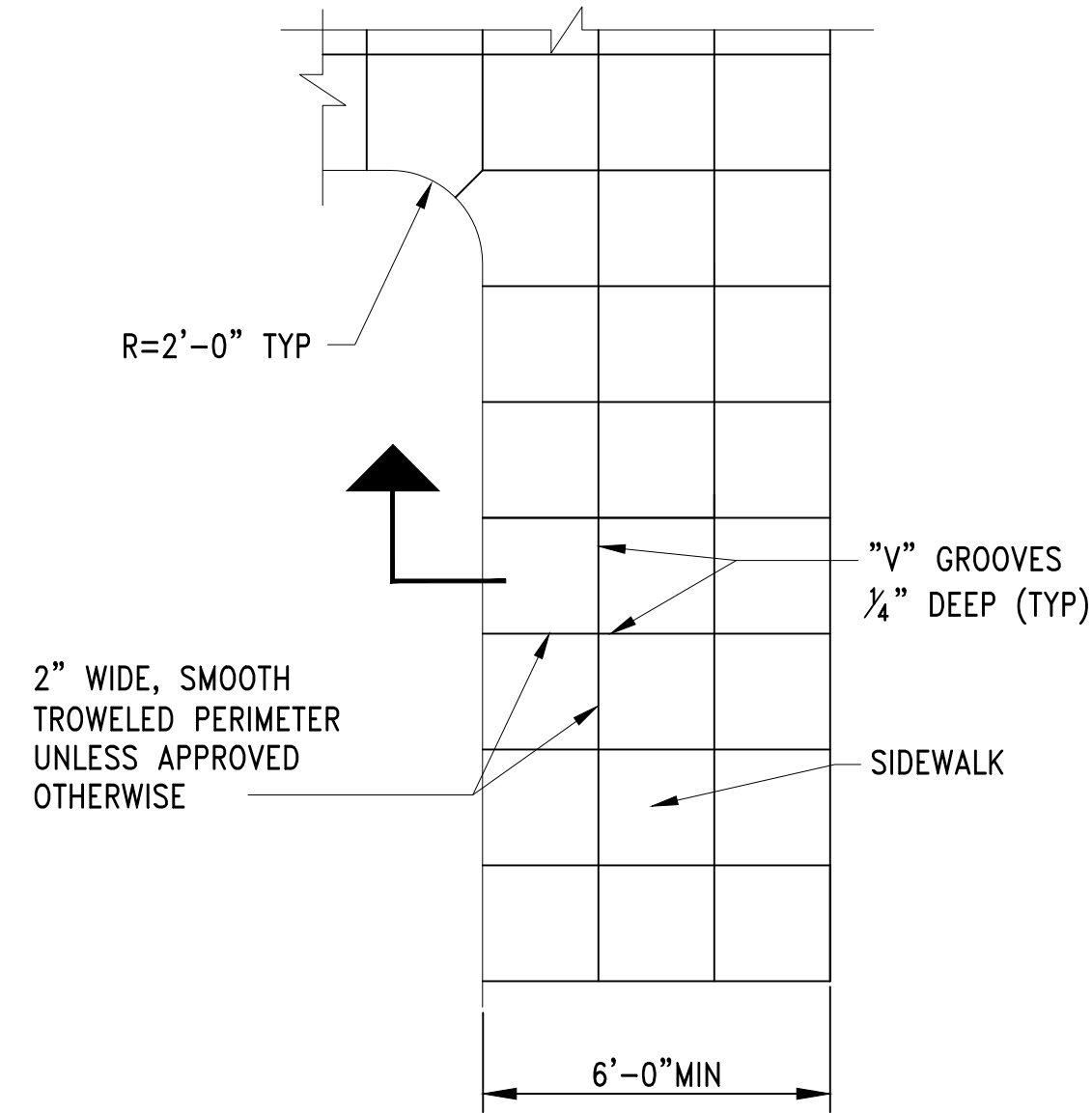
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Port of Seattle MARITIME DIVISION
PROJECT: **SITE 23 & 25 RESTORATION**
SHEET TITLE: **GRADING SECTIONS - SITE 25 SHEET 4**

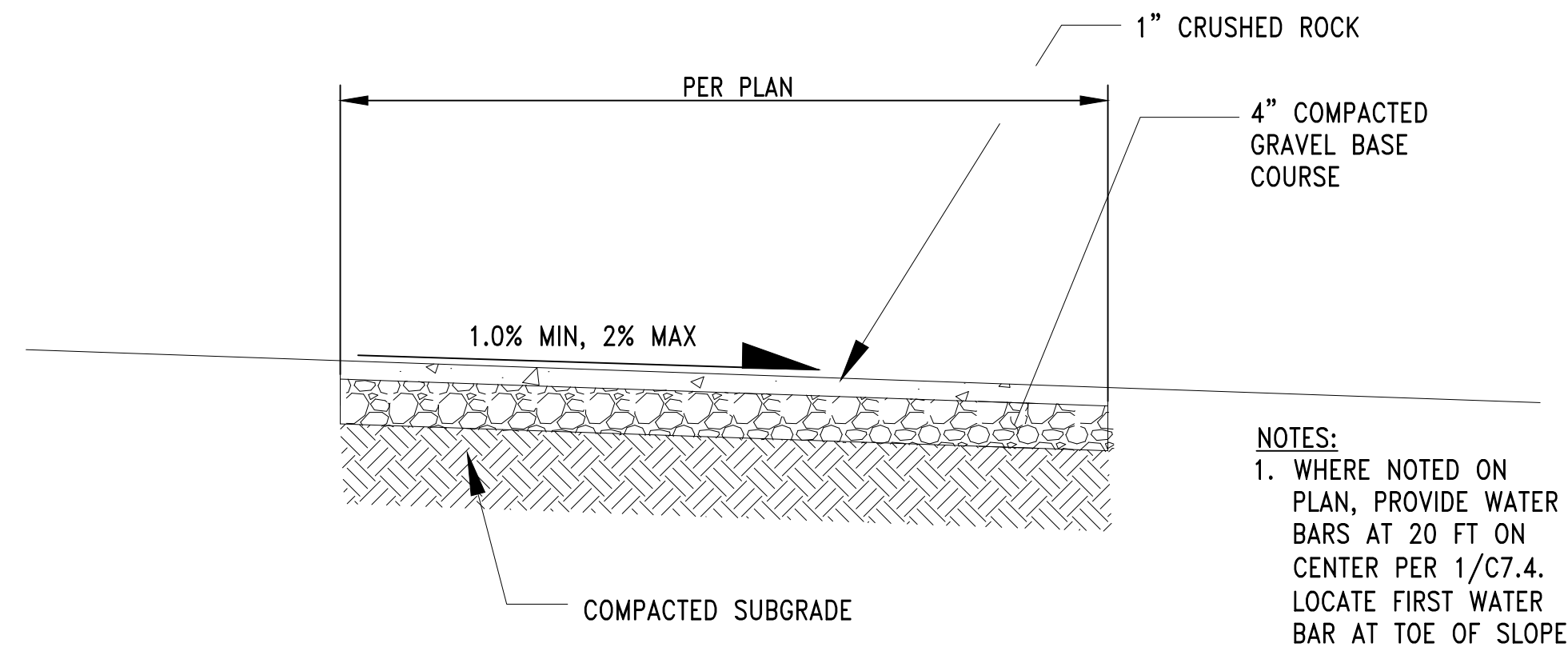
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105563
CONSULTANT'S NO.
PORT OF SEATTLE NO.
117-1201 **C8.11**



DETAIL 2 2
TYPICAL SIDEWALK AND CURB RAMP
SCALE: NTS
A2.0 A2.1

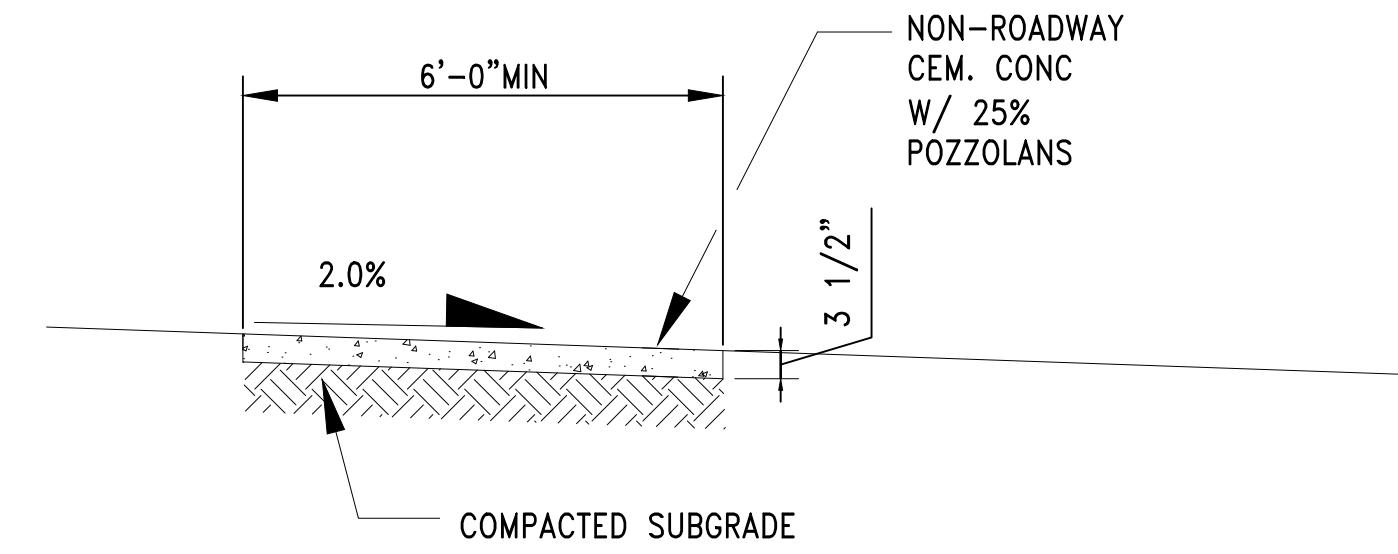
NOTES:

- 3/8" THROUGH AND CONTRACTION JOINTS SHALL BE LOCATED AS REQUIRED BY CITY OF SEATTLE STANDARD SPECIFICATIONS SECTION 8-14.3(6).
- "V" GROOVE SCORING SHALL MATCH PATTERN IN ADJACENT EXISTING SIDEWALK OR SHALL BE A 2' SQUARE SCORING PATTERN UNLESS OTHERWISE APPROVED BY THE ENGINEER.
- ALL SIDEWALK SHALL BE NON-ROADWAY CEM CONC W/ 25% POZZOLANS.

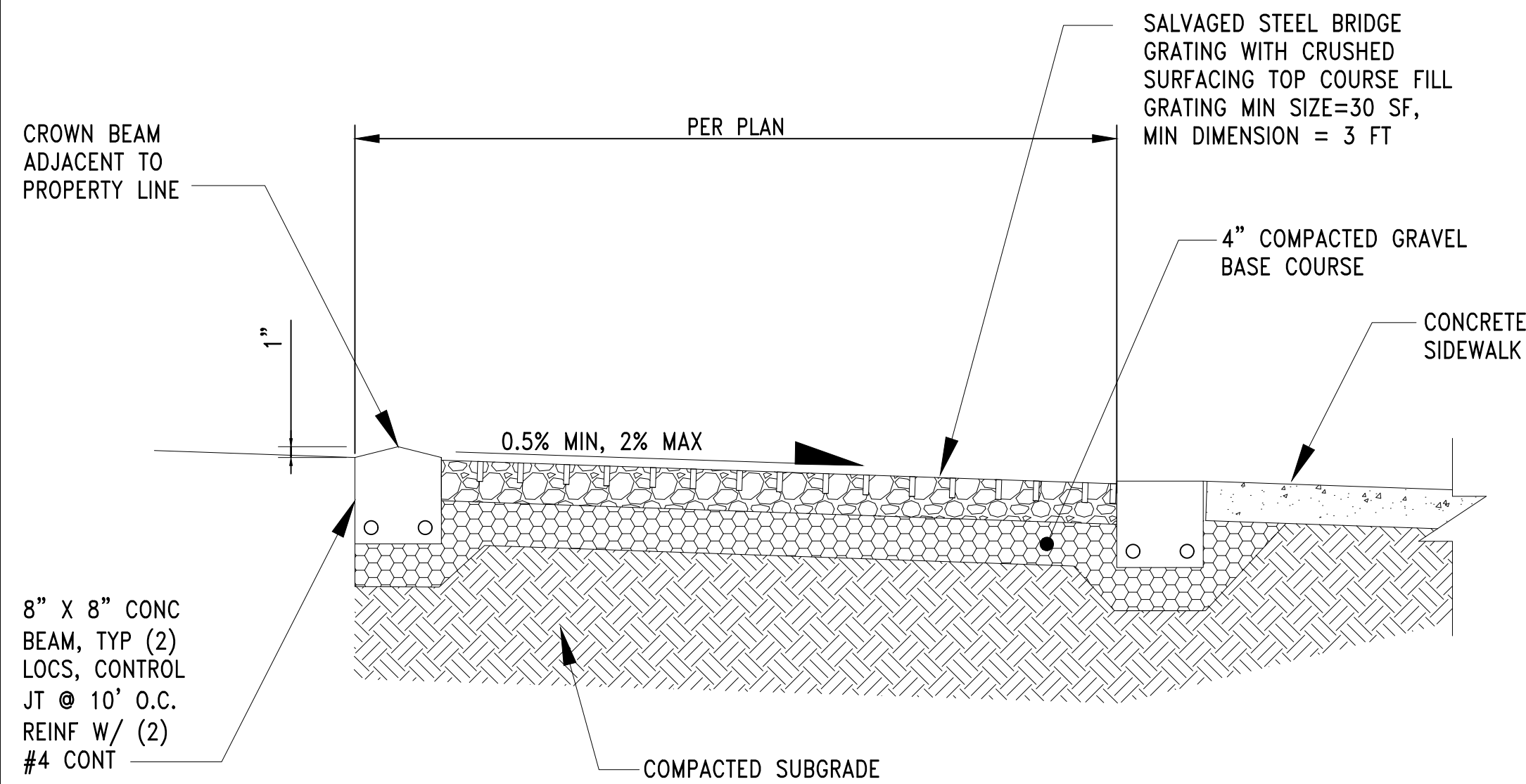


DETAIL 3 3 3 3
CRUSHED ROCK TRAIL
SCALE: NTS
A2.0 A2.1 C5.1 C9.0

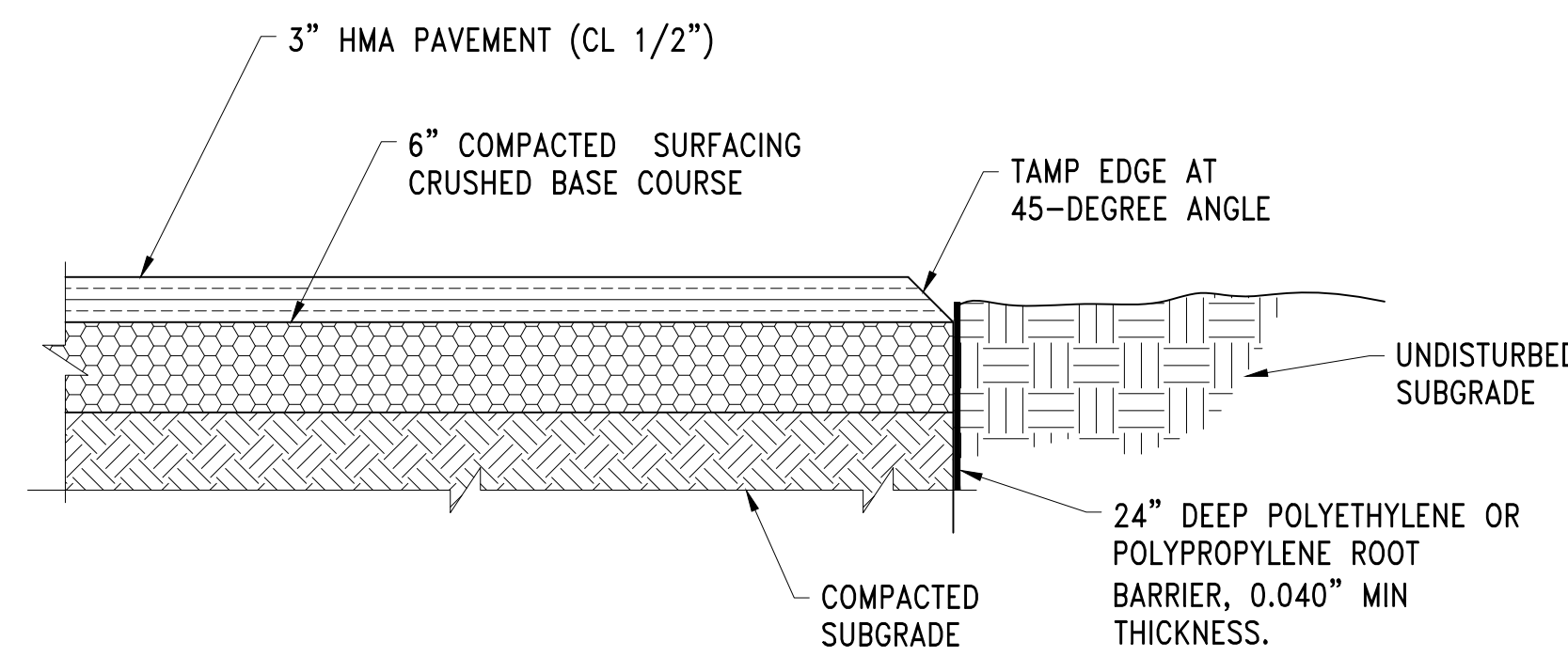
- NOTES:
1. WHERE NOTED ON PLAN, PROVIDE WATER BARS AT 20 FT ON CENTER PER 1/C7.4. LOCATE FIRST WATER BAR AT TOE OF SLOPE.



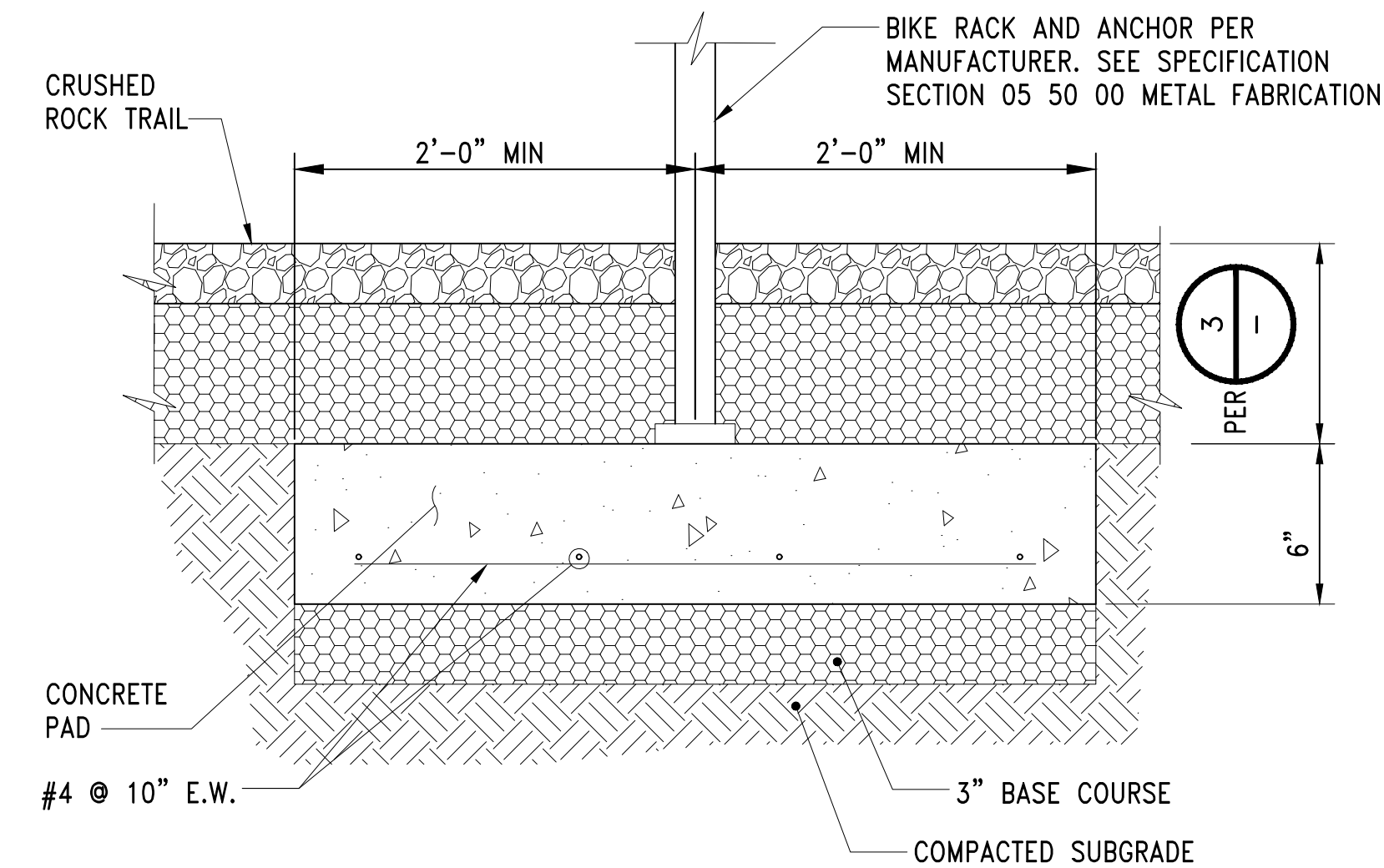
SECTION A
SCALE: NTS



DETAIL 4
GRATING WITH CRUSHED ROCK
SCALE: NTS
A2.0



DETAIL 5
HMA PAVING
SCALE: NTS
C5.1



DETAIL 6
BIKE ATTACHMENT RACK
SCALE: NTS
A2.1

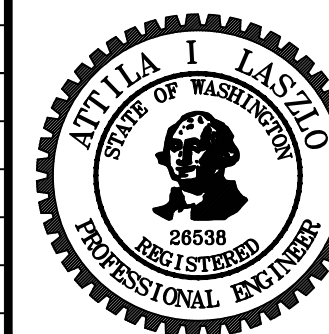
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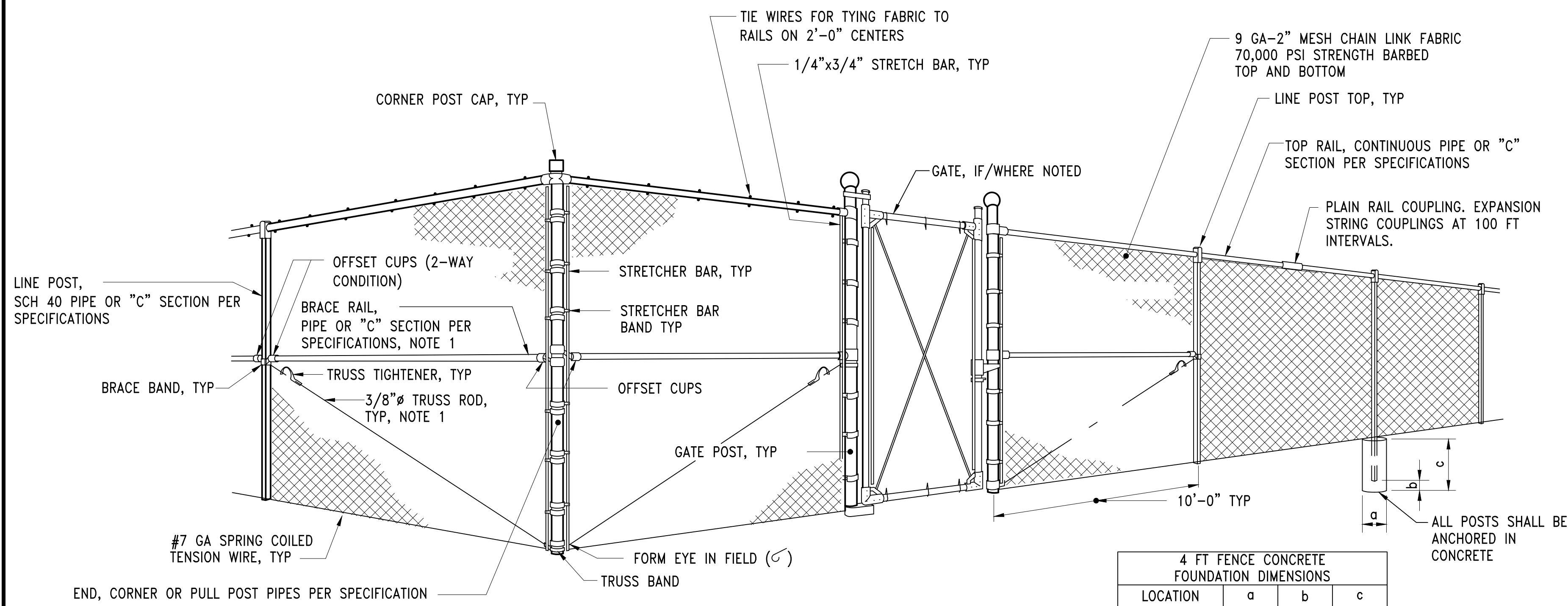


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DESIGN ENGINEER:
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Port of Seattle MARITIME DIVISION
PROJECT: SITE 23 & 25 RESTORATION
SHEET TITLE: PAVING DETAILS

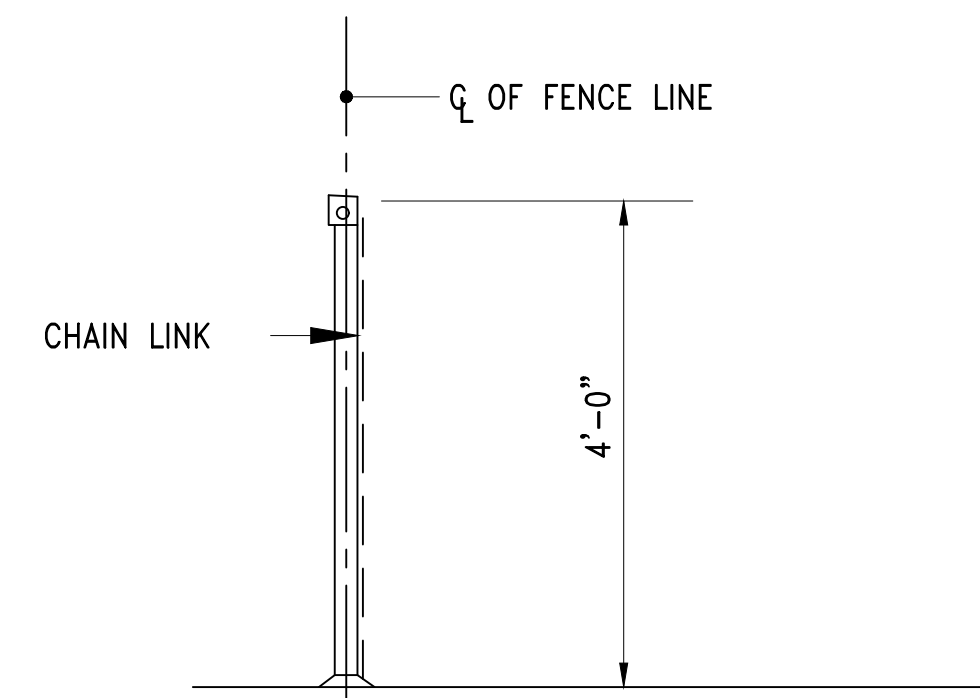
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117-1201 **C9.0**

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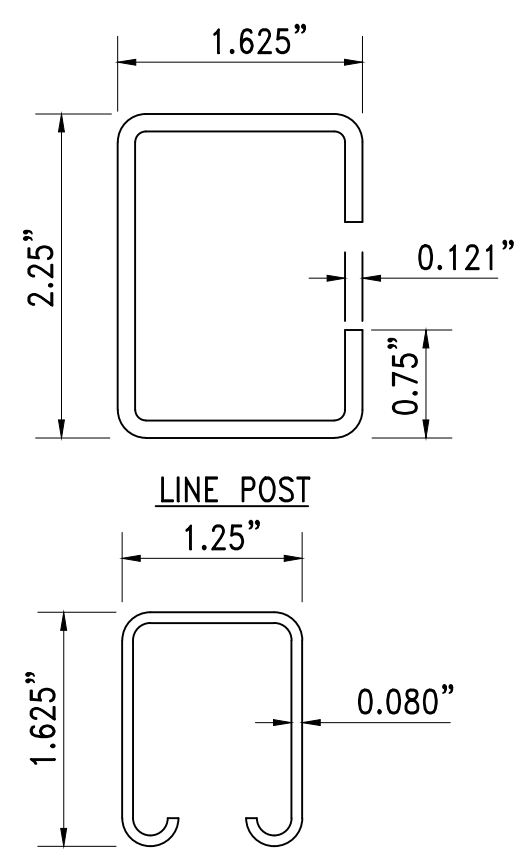


4 FT FENCE CONCRETE FOUNDATION DIMENSIONS			
LOCATION	a	b	c
CORNER	10"	6"	3'-6"
END	10"	6"	3'-6"
OTHER	8"	6"	3'-0"

- NOTES:**
- BRACE RODS AND TRUSSES ARE NOT REQUIRED FOR FENCES UP TO 4'-0" TALL.
 - ALL FENCING SHALL BE VINYL-COATED, COLOR BLACK.



TYPICAL SECTION
PERMANENT FENCE
SCALE: NTS



TYPICAL "C" SECTION
PERMANENT FENCE
SCALE: NTS

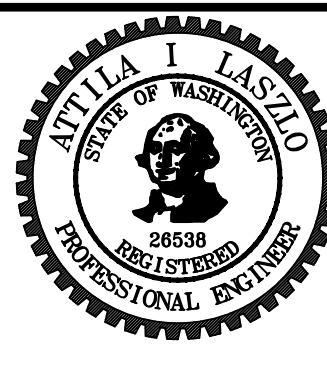
DETAIL
PERMANENT FENCE, TYP
SCALE: NTS

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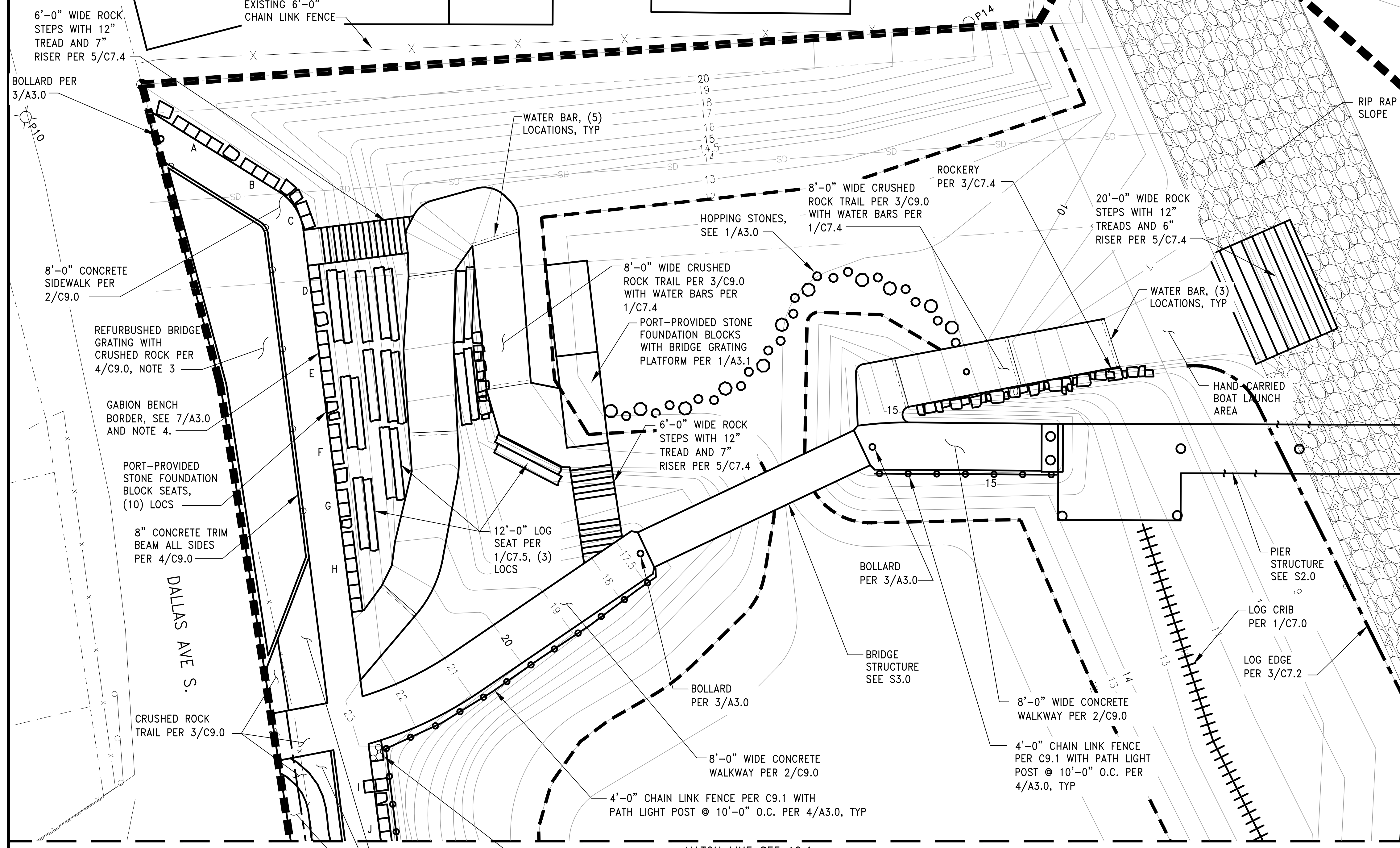


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SHEET TITLE: FENCE DETAILS

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SOUTH PARK MARINA PROJECT



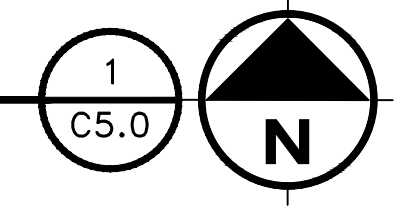
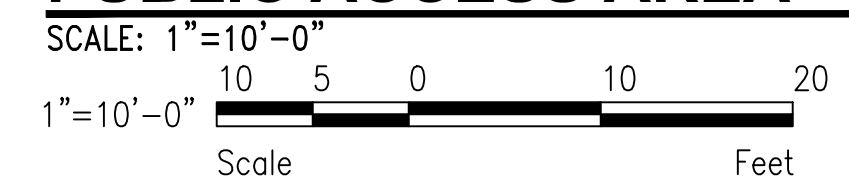
NOTES:

- PUBLIC ACCESS AREA WORK BY THE CONTRACTOR INCLUDES COORDINATION WITH THE PORT-HIRED ARTIST AS NOTED IN THE DRAWINGS AND SPECIFICATIONS.
- SEATING LOGS, ROCKERIES, AND OTHER NATURAL ELEMENTS ARE TO BE INSTALLED IN ACCORDANCE WITH THE LOCATIONS SHOWN ON PLAN, BUT SHALL BE POSITIONED TO EXHIBIT NATURAL VARIATION. THE CONTRACTOR SHALL SUBMIT A PLAN FOR PLACEMENT TO THE ENGINEER PRIOR TO CONSTRUCTION FOR APPROVAL. APPROVAL OF THIS PLAN AND THE IN-FIELD PLACEMENT SHALL BE ACQUIRED PRIOR TO THE COMPLETION OF THE WORK. LOCATIONS SHALL NOT VARY BY MORE THAN 1 FT.
- SEE A2.2 AT VISITOR VEHICLE ACCESS AREA.
- NUMBER OF GABION UNITS PER BENCH AS FOLLOWS:

BENCH LABEL	# GABION UNITS
A	4
B	3
C	2
D	3
E	5
F	3
G	2
H	6
I	2
J	5
K	3
L	3

- SEE C8.0 THROUGH C8.6 FOR NORTHINGS AND EASTINGS OF ALL ELEMENT LOCATIONS.

PUBLIC ACCESS AREA - PARTIAL PLAN

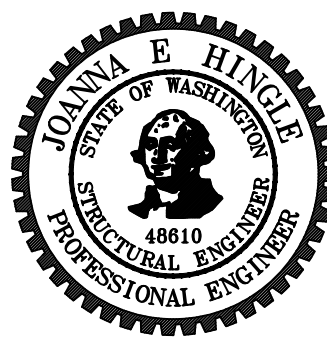


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DRAFTER:
KEN LANE
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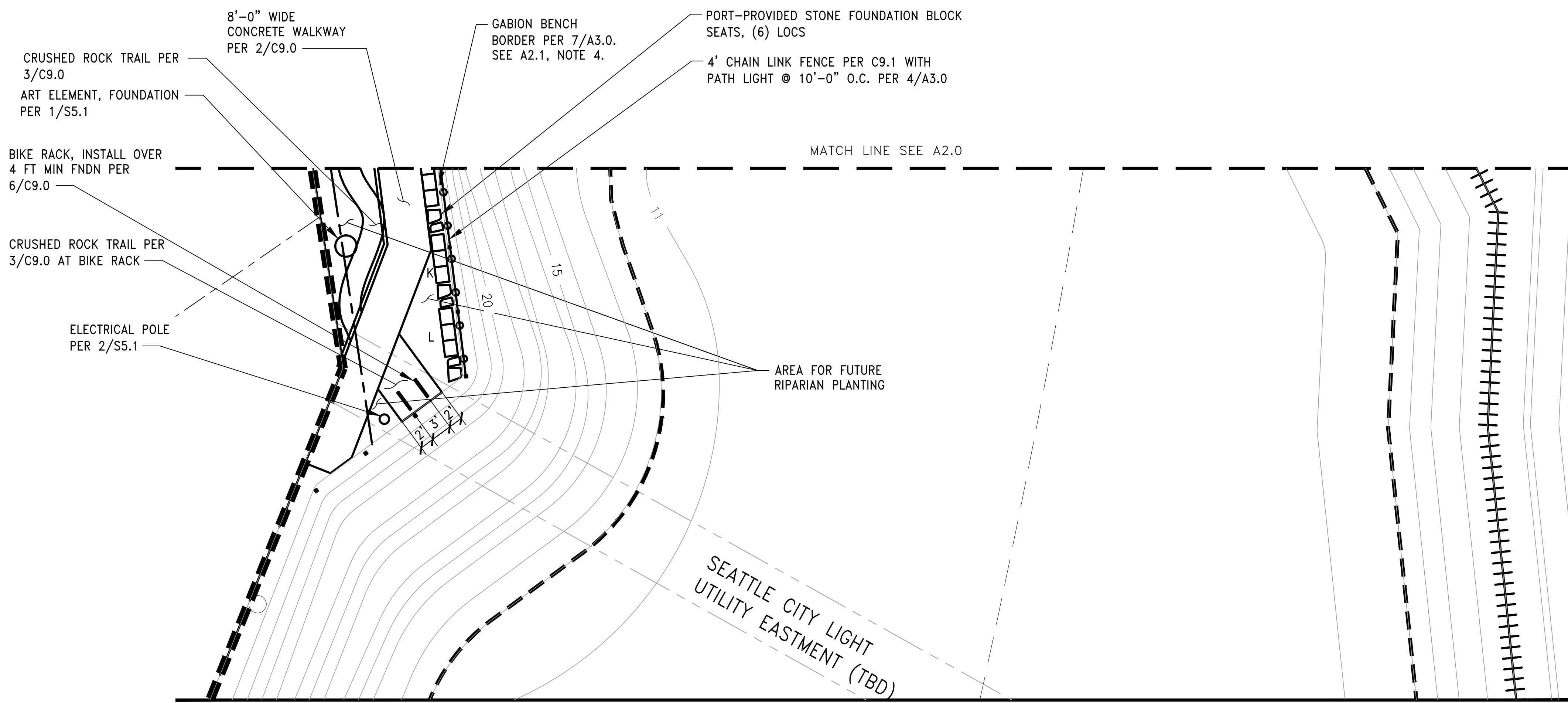
Port of Seattle MARITIME DIVISION
PROJECT: SITE 23 & 25 RESTORATION

SHEET TITLE: PUBLIC ACCESS AREA PARTIAL PLAN
(1 OF 2)

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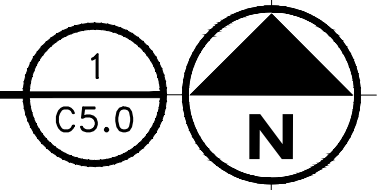
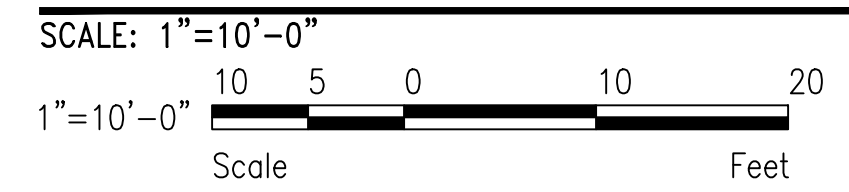
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NOTES:

- SEE A2.0 FOR NOTES.

PUBLIC ACCESS AREA - PARTIAL PLAN

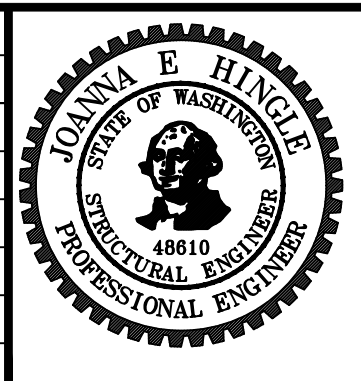


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PROJECT ENGINEER:
JOANNA HINGLE
DESIGN ENGINEER:
JOANNA HINGLE
DRAFTER:
KEN LANE
SCALE:
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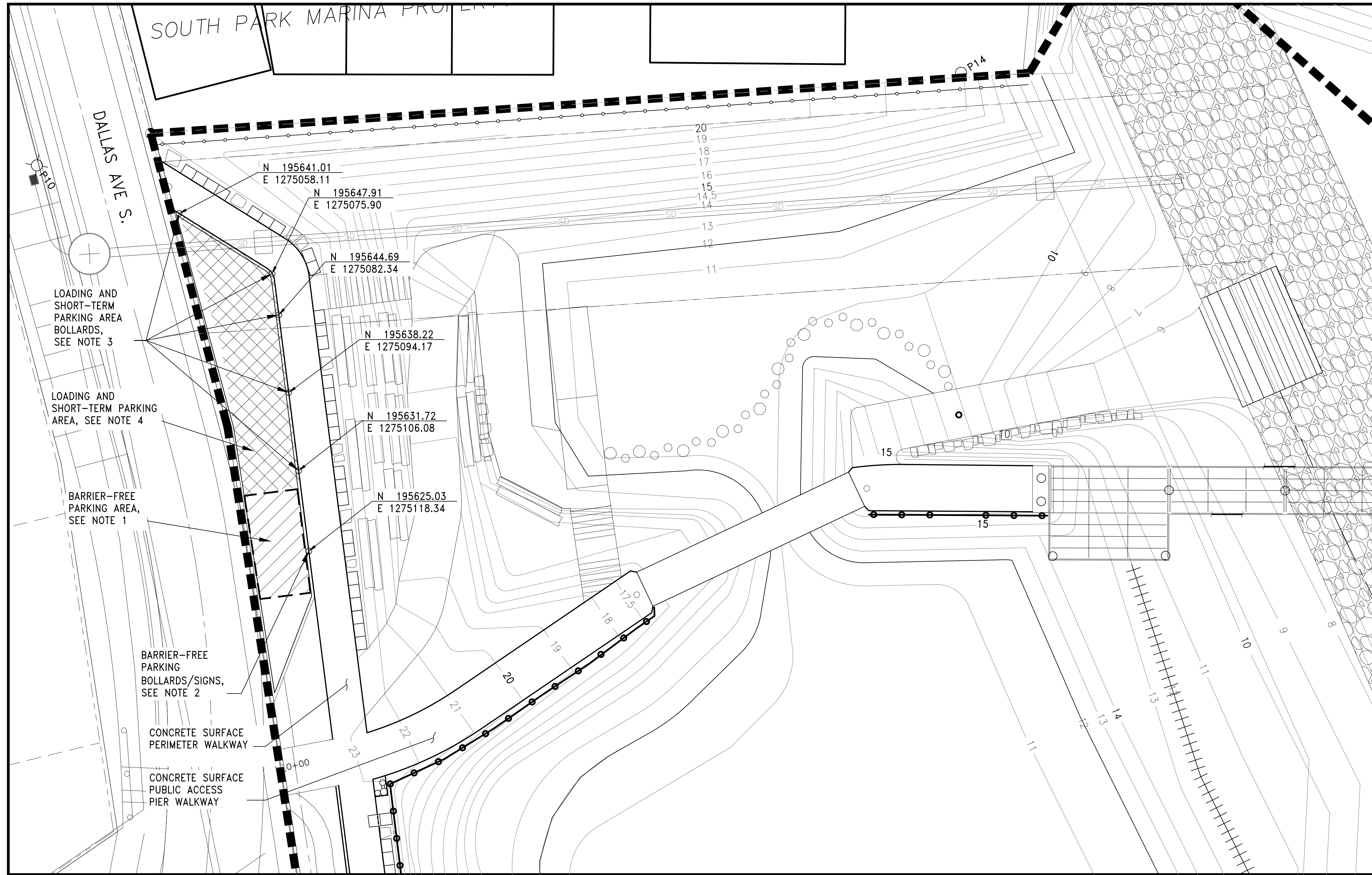
Port of Seattle MARITIME DIVISION

PROJECT: SITE 23 & 25 RESTORATION

SHEET TITLE: **PUBLIC ACCESS AREA PARTIAL PLAN**
(2 OF 2)

WORK PROJECT NO.	105563
CONSULTANT'S NO.	
PORT OF SEATTLE NO.	117-1201
A2.1	

SOUTH PARK MARINA PROJECT



NOTES:

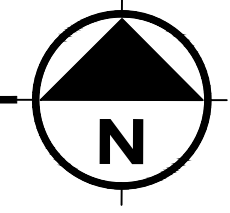
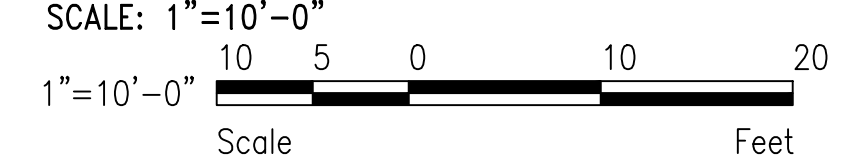
PUBLIC ACCESS AREA – VISITOR VEHICLE ACCESS

- BARRIER-FREE PARKING AREA, BARRIER FREE PARKING ORIENTED PARALLEL TO CONCRETE SURFACE PERIMETER WALKWAY, CONTINUOUS WITH CONCRETE SURFACE PUBLIC ACCESS PIER WALKWAY.
- BARRIER-FREE PARKING AREA BOLLARD/SIGNS IDENTIFYING PARKING AREA SHALL CONSIST OF 12-INCH-DIAMETER, DOME-TOPPED, YELLOW-COLORED CYLINDRICAL PIPE. BOLLARDS WILL BE FIVE FEET ABOVE-GRADE AND SHALL INCLUDE INTERNATIONAL SYMBOL OF ACCESS AND THE PHRASE "STATE DISABLED PARKING PERMIT REQUIRED", CENTERED BETWEEN THREE AND FIVE FEET VERTICALLY ON EACH BOLLARD. SEE 3/A3.1.
- LOADING AND SHORT-TERM PARKING AREA BOLLARDS SHALL CONSIST OF 12-INCH-DIAMETER, DOME-TOPPED, ORANGE-COLORED CYLINDRICAL PIPE. BOLLARDS SHALL BE FIVE FEET ABOVE-GRADE AND WILL INCLUDE 14-INCH BY 18-INCH SIGN INDICATING "SHORT-TERM PARKING – LOADING/UNLOADING", RED LETTERING, WITH WHITE BACKGROUND, CENTERED BETWEEN THREE AND FIVE FEET VERTICALLY ON EACH BOLLARD. SEE 3/A3.1.

LEGEND:

- LOADING AND SHORT TERM PARKING
- BARRIER-FREE PARKING

PUBLIC ACCESS AREA - VISITOR VEHICLE ACCESS



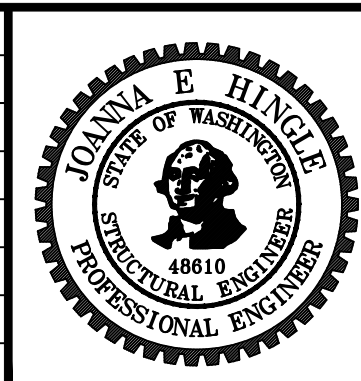
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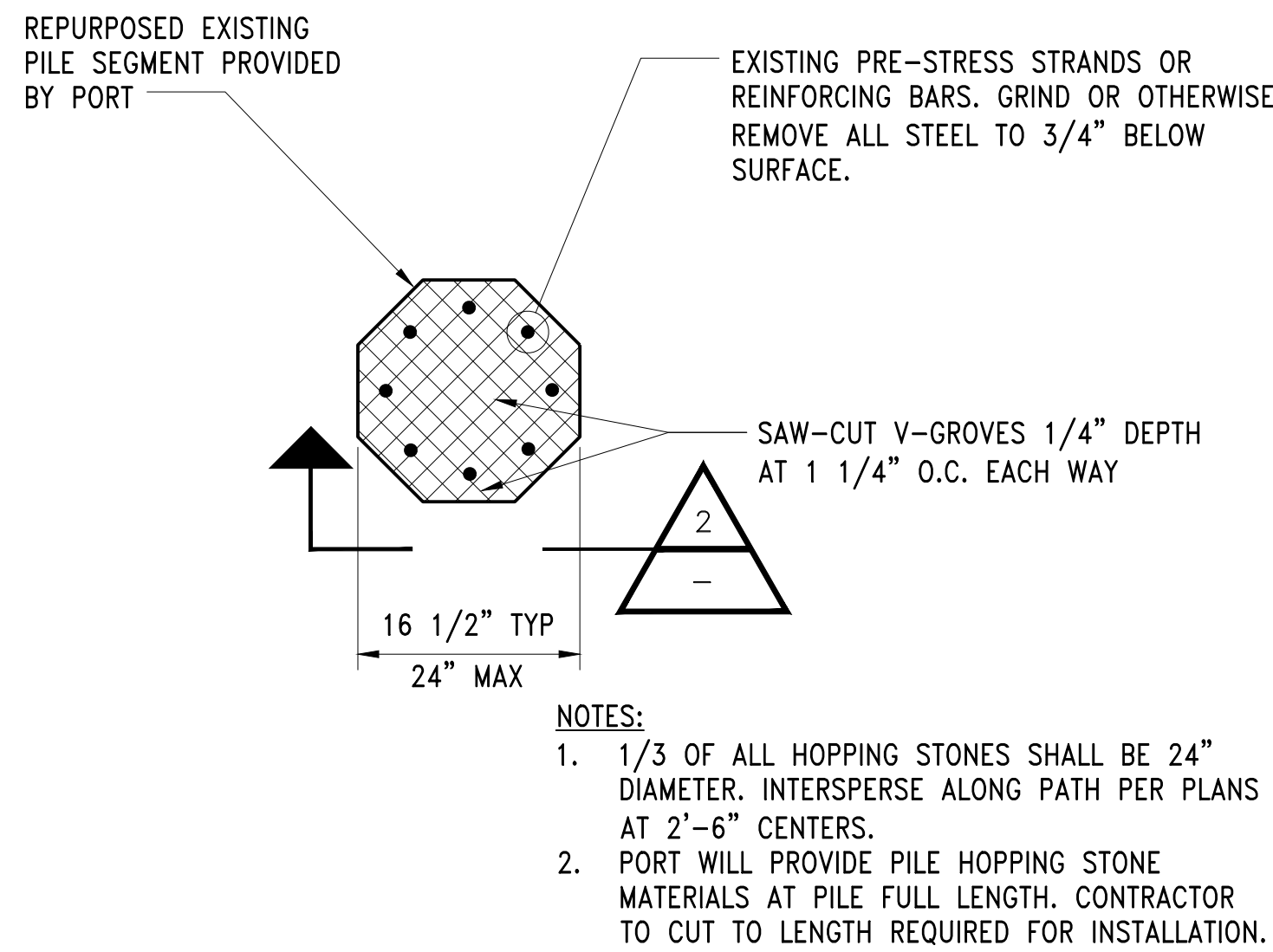
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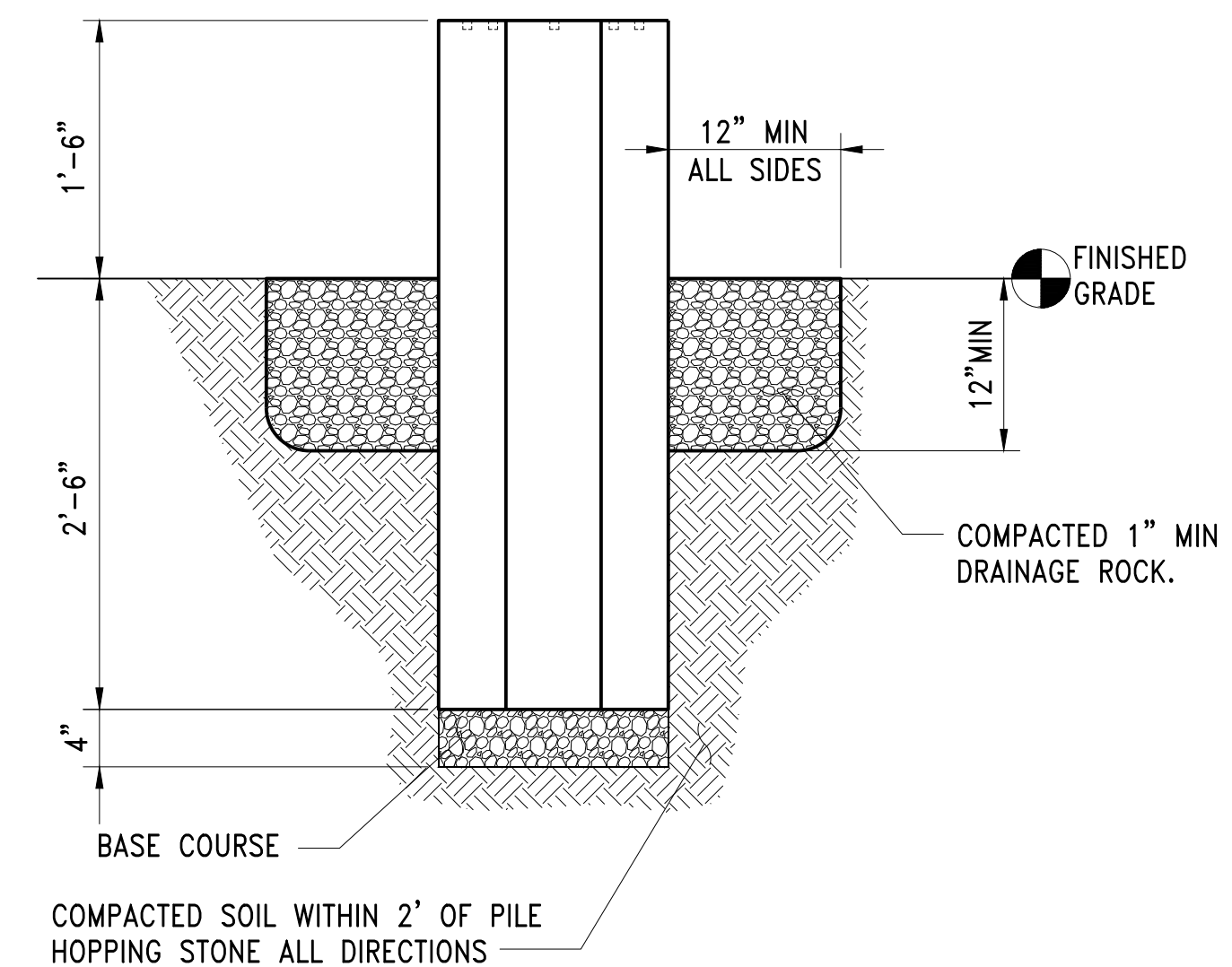
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PROJECT: **SITE 23 & 25 RESTORATION**
SHEET TITLE: **PUBLIC ACCESS AREA VISITOR VEHICLE ACCESS PLAN**

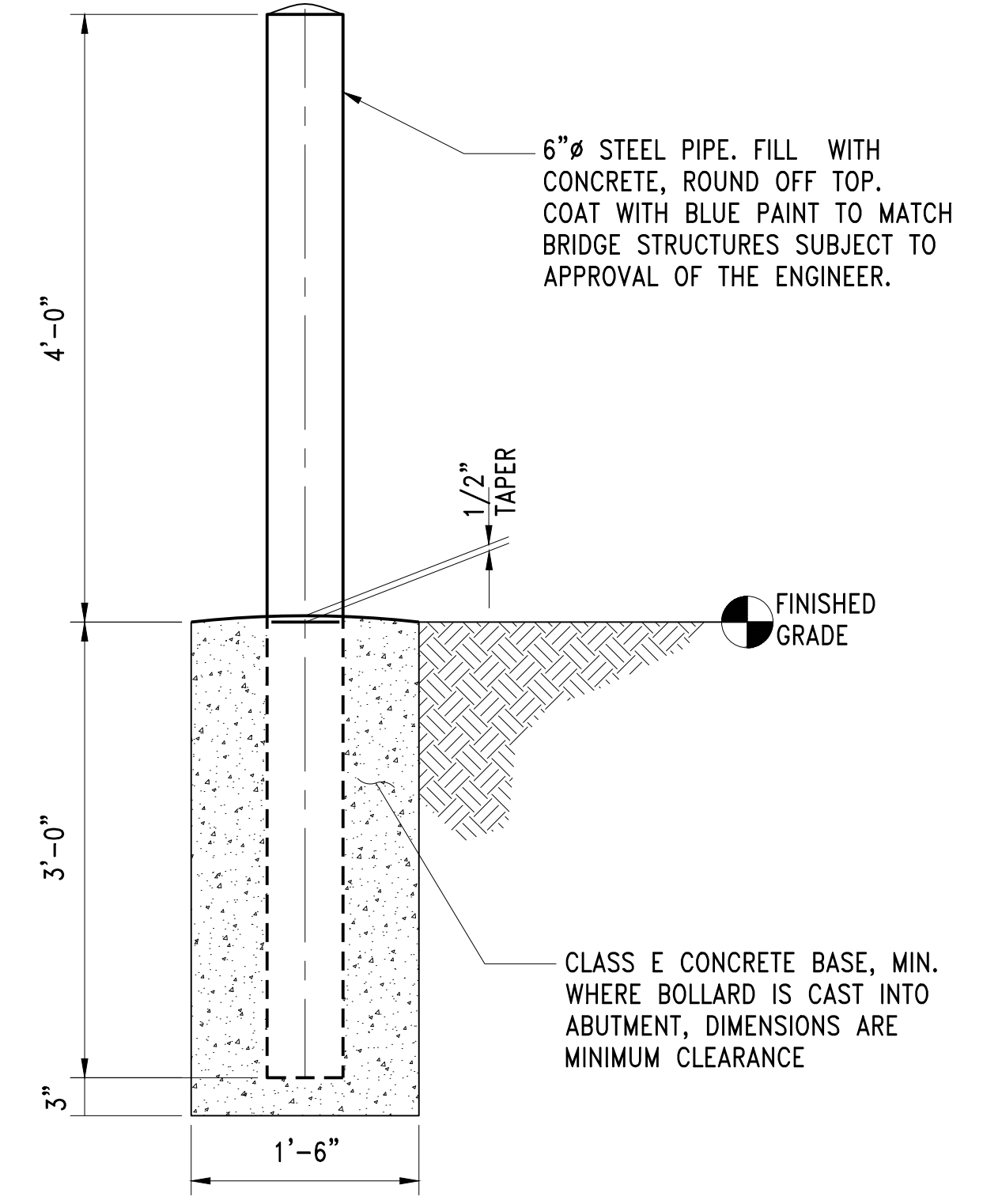
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105563
CONSULTANT'S NO.
PORT OF SEATTLE NO.
117-1201 **A2.2**



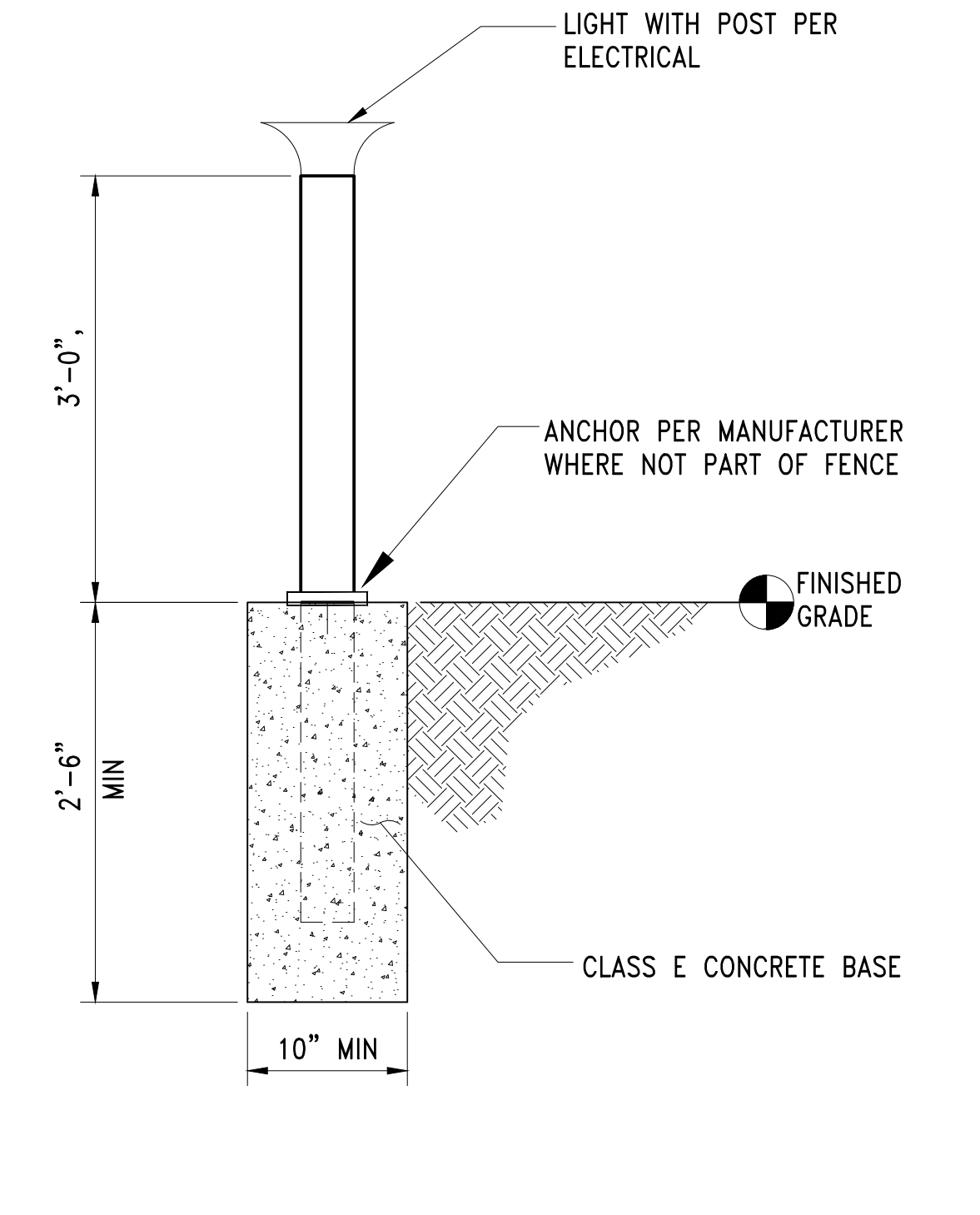
DETAIL 1
PILE HOPPING STONE
SCALE: 1" = 1'-0"



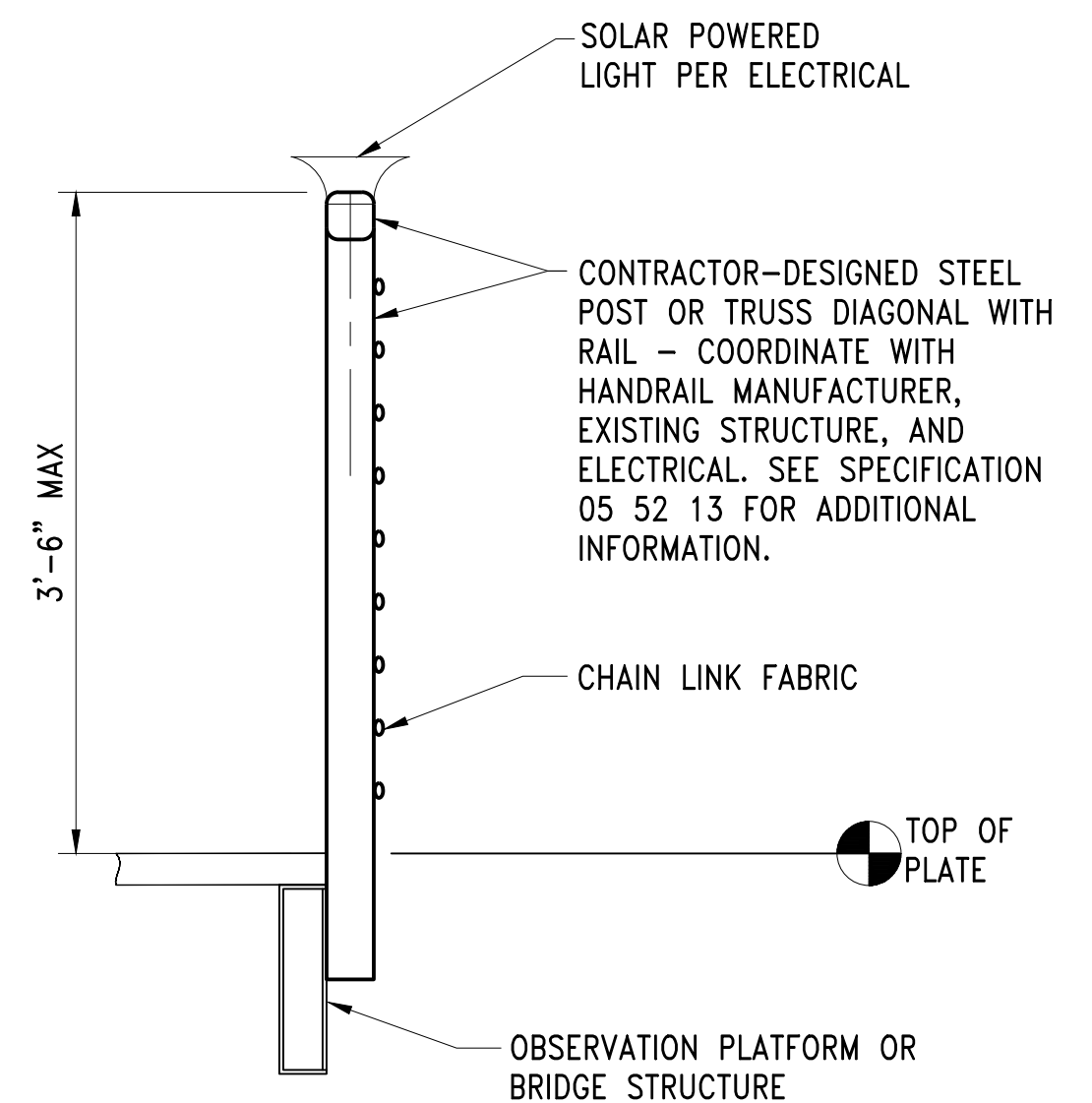
ELEVATION 2
PILE HOPPING STONE
SCALE: 1" = 1'-0"



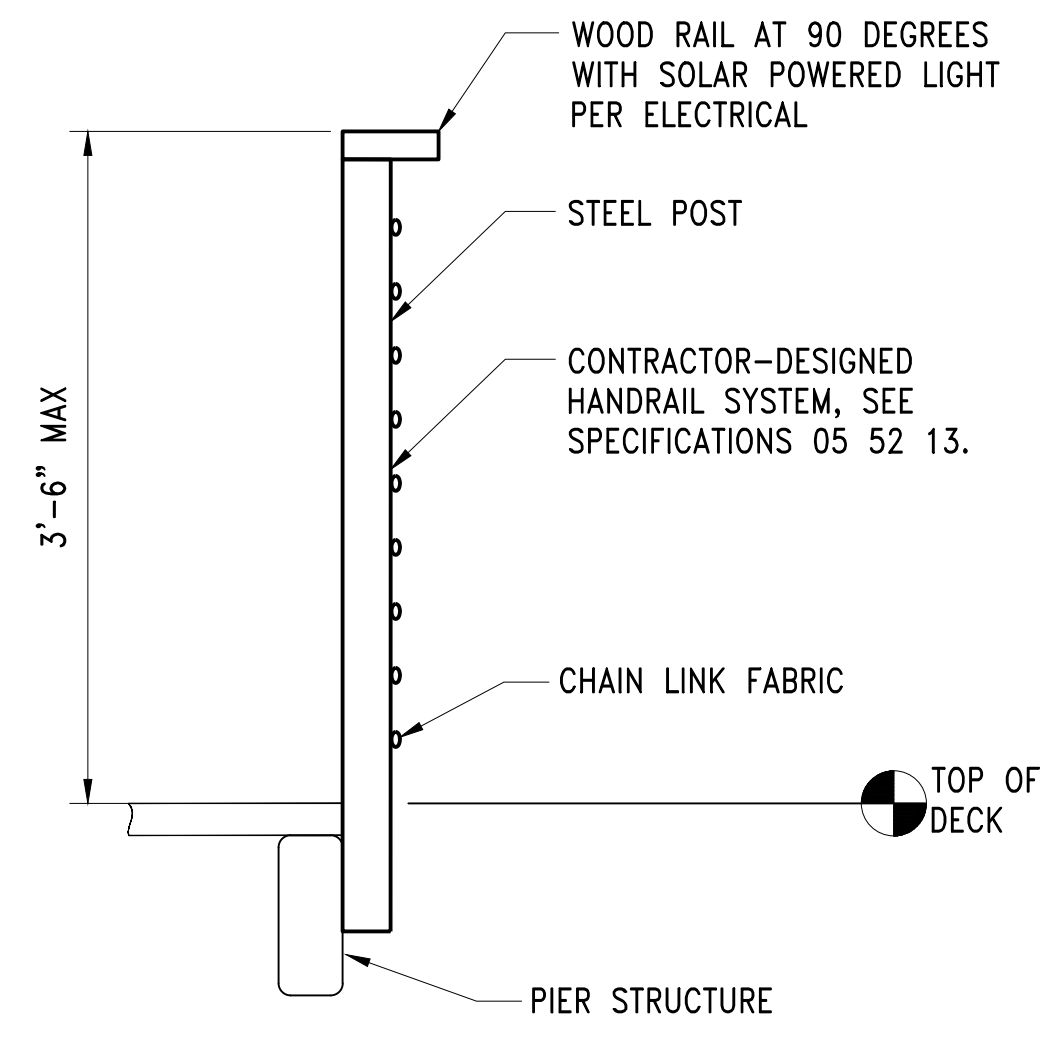
DETAIL 3
6" BOLLARD
SCALE: 1" = 1'-0"



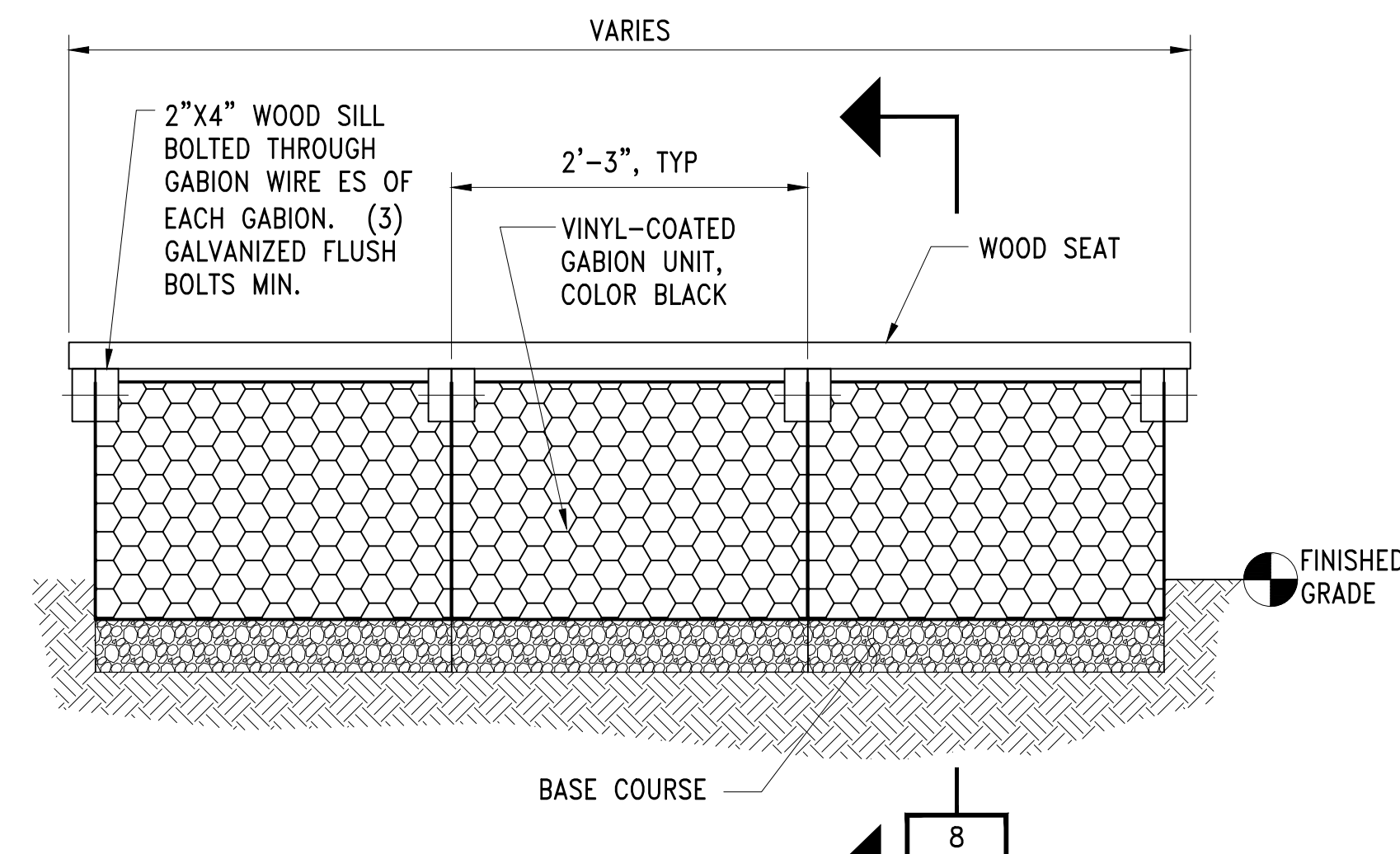
DETAIL 4
4" LIGHT POST
SCALE: 1" = 1'-0"



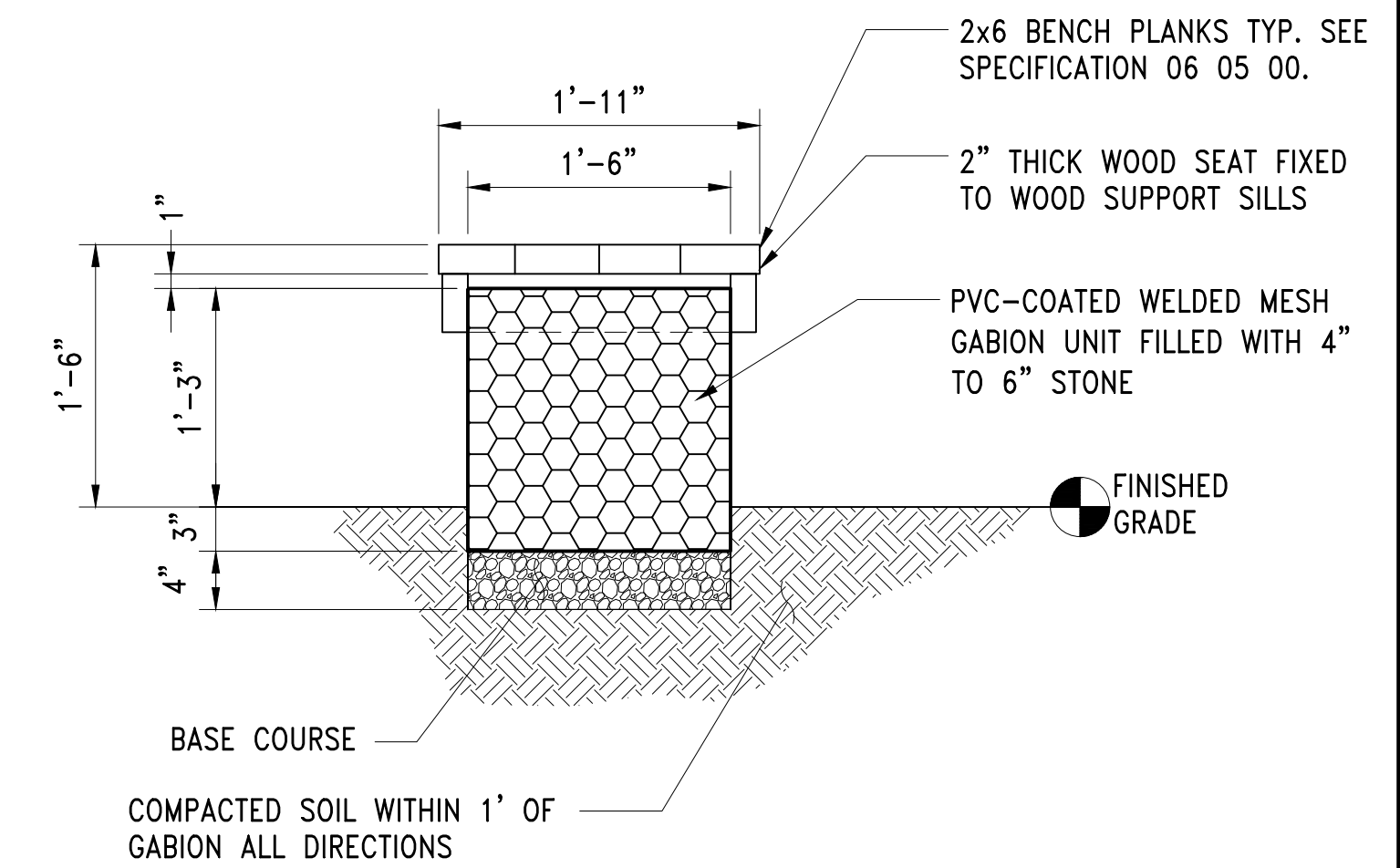
DETAIL 5
LIGHT POST HANDRAIL AT OBSERVATION PLATFORM AND BRIDGE
SCALE: 1" = 1'-0"



DETAIL 6
LIGHT POST HANDRAIL AT PIER
SCALE: 1" = 1'-0"



DETAIL 7
GABION BENCH
SCALE: 1" = 1'-0"



SECTION 8
GABION BENCH SECTION
SCALE: 1" = 1'-0"

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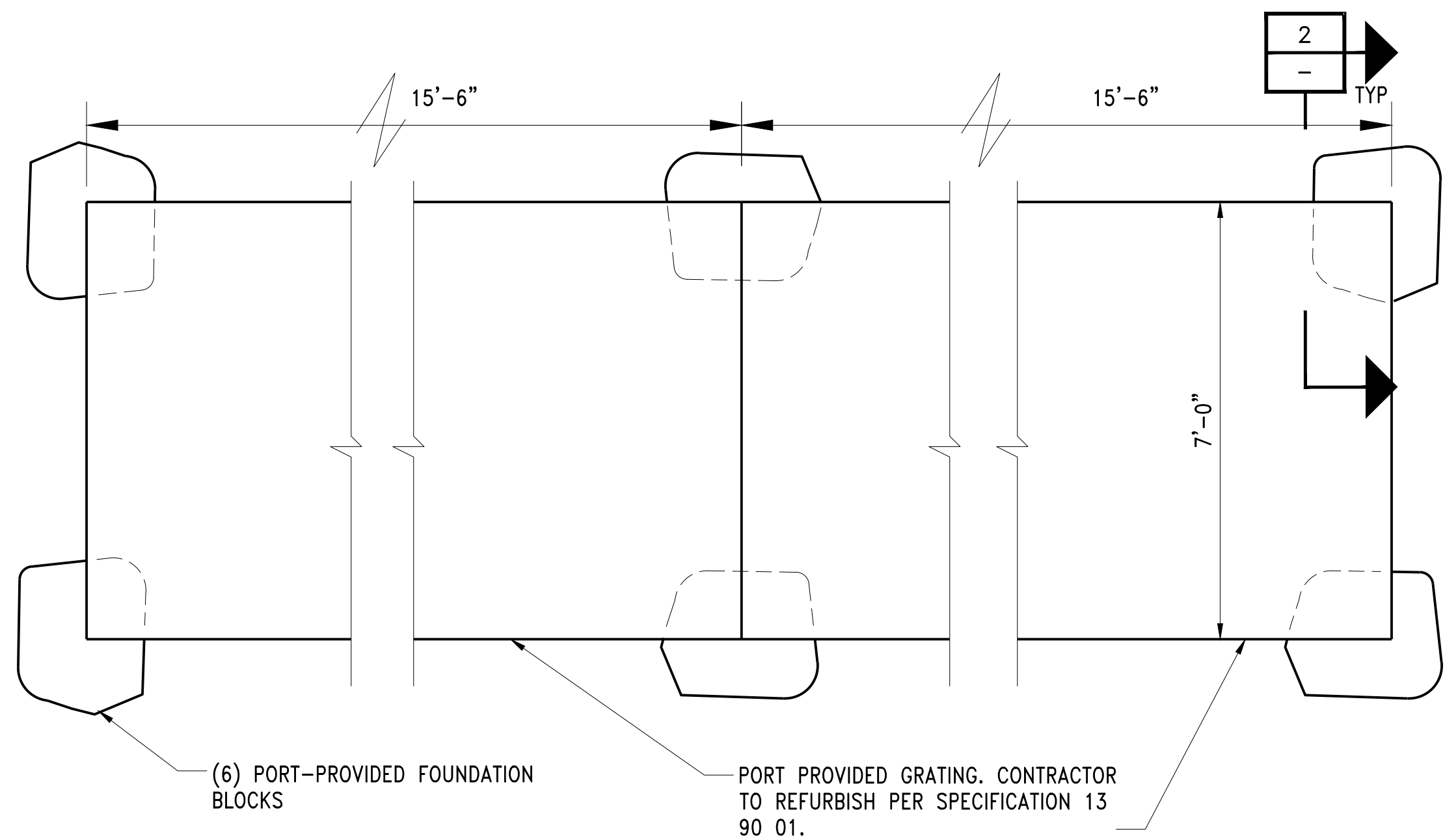
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Port of Seattle MARITIME DIVISION
PROJECT: SITE 23 & 25 RESTORATION
SHEET TITLE: PUBLIC ACCESS AREA DETAILS
SHEET 1

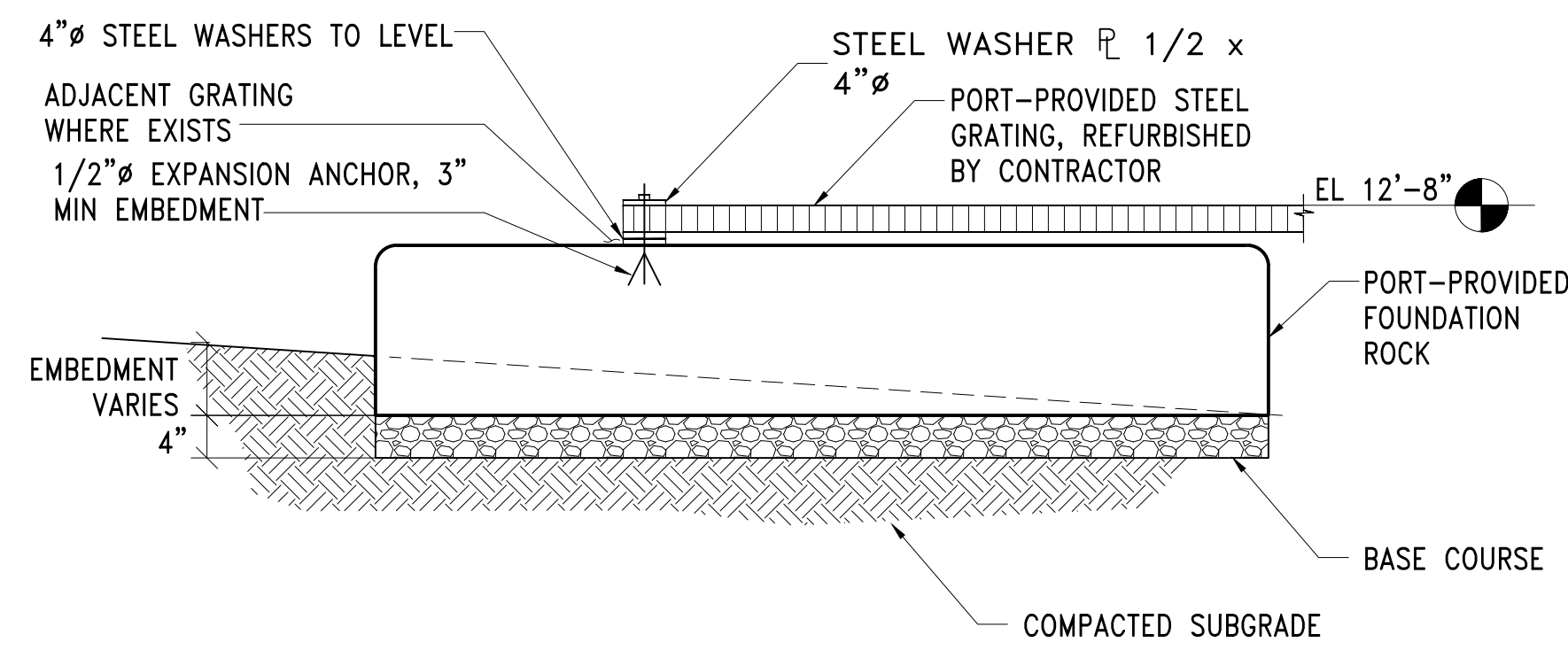
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105563
CONSULTANT'S NO.
PORT OF SEATTLE NO.
117-1201 **A3.0**



DETAIL

PLATFORM PLAN
SCALE: NTS

1	1
A2.0	C5.0

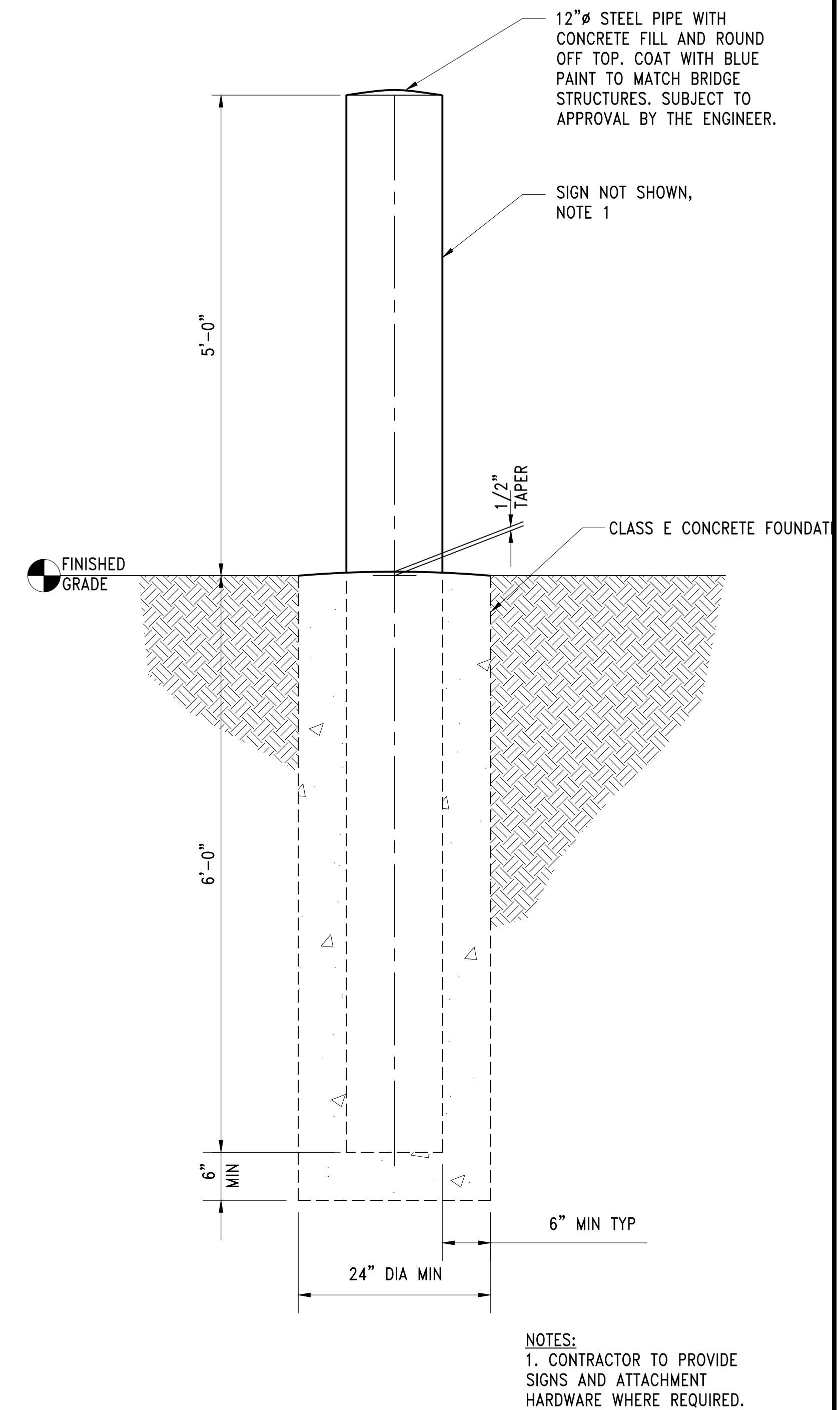


SECTION

PLATFORM CONNECTION
SCALE: NTS

2
-

NOTES:
1. CONTRACTOR TO PROVIDE SIGNS AND ATTACHMENTS HARDWARE WHERE REQUIRED.



NOTES:
1. CONTRACTOR TO PROVIDE SIGNS AND ATTACHMENT HARDWARE WHERE REQUIRED.

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DETAIL

12" BOLLARD
SCALE: 1"=1'-0"

3
A2.2

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PROJECT ENGINEER: JOANNA HINGLE
DESIGN ENGINEER: JOANNA HINGLE
DRAWER: KEN LANE
SCALE: AS SHOWN
DATE: 5/11/2017
CHECKED/APPROVED BY:

Port of Seattle MARITIME DIVISION

PROJECT: SITE 23 & 25 RESTORATION

SHEET TITLE: PUBLIC ACCESS AREA DETAILS
SHEET 2

WORK PROJECT NO. 105563
CONSULTANT'S NO.
PORT OF SEATTLE NO. 117-1201
A3.1

STRUCTURAL NOTES:

GENERAL:

- WORKMANSHIP, DESIGN, AND CONSTRUCTION SHALL CONFORM TO THE DRAWINGS, SPECIFICATIONS, THE 2012 EDITION OF THE INTERNATIONAL BUILDING CODE (IBC), AS ADOPTED BY THE PERMITTING DEPARTMENT OF KING COUNTY, WASHINGTON.
- DESIGN LOADING CRITERIA
 - PIER & OBSV. PLATFORM DEAD LOAD: SELF-WEIGHT
 - PIER & OBSV. PLATFORM LIVE LOAD: 100 PSF
 - PIER & OBSV. PLATFORM SNOW LOAD: 15 PSF
 - BRIDGE DEAD LOAD: SELF-WEIGHT
 - BRIDGE LIVE LOAD: 90 PSF
 - 4K MAINTENANCE VEHICLE AXLE LOAD (7'-0" MINIMUM AXLE SPACING, STEEL SHEETS TO BE PLACED OVER WOOD PLANKING FOR ACCESS)
 - BRIDGE SNOW LOAD: 15 PSF
 - SEISMIC DESIGN CRITERIA:
 - SOIL FROM GEOTECHNICAL REPORT: GEOENGINEERS, DATED MAY 7, 2014:
 - SITE CLASS E
 - $S_s = 1.52g$
 - $S_1 = 0.58g$
 - $F_A = 0.9$
 - $F_y = 2.4$
 - $S_{ps} = 0.91g$
 - $S_{D1} = 0.93g$
 - PIER VALUES FROM ASCE 7:
 - $I_e = 1.0$
 - $R = 2.0$
 - $C_d = 2.0$
 - $\rho_0 = 2.0$
 - $C_s = 0.46$
 - WIND DESIGN CRITERIA:
 - $I_w = 1.0$
 - LATERAL ON FRAMING: 57 PSF
 - DOWNWARD: 23 PSF
 - UPWARD: -21 PSF
- BUILDING CODES FOR DESIGN
 - OBSV. PLATFORM & PIER DESIGN CRITERIA: INTERNATIONAL BUILDING CODE (2012), AS ADOPTED BY KING COUNTY, WASHINGTON.
 - BRIDGE DESIGN CRITERIA: AASHTO LRFD GUIDE SPECIFICATIONS FOR PEDESTRIAN BRIDGES, (2ND ED), AND RELATED AASHTO LRFD BRIDGE SPECIFICATIONS (6TH ED)
- STRUCTURAL DRAWINGS SHALL BE USED IN CONJUNCTION WITH OTHER DISCIPLINE DRAWINGS FOR CONSTRUCTION. CONTRACTOR SHALL VERIFY DIMENSIONS AND CONDITIONS FOR COMPATIBILITY AND SHALL NOTIFY THE ENGINEER OF ANY DISCREPANCIES PRIOR TO CONSTRUCTION.
- CONTRACTOR SHALL VERIFY ALL EXISTING DIMENSIONS, MEMBER SIZES, AND CONDITIONS PRIOR TO COMMENCING ANY WORK. ALL DIMENSIONS OF EXISTING CONSTRUCTION SHOWN ON THE DRAWINGS ARE INTENDED AS GUIDELINES ONLY AND MUST BE VERIFIED.
- CONTRACTOR SHALL PROVIDE TEMPORARY BRACING FOR THE STRUCTURE AND STRUCTURAL COMPONENTS UNTIL ALL FINAL CONNECTIONS HAVE BEEN COMPLETED IN ACCORDANCE WITH THE PLANS. CONTRACTOR SHALL PROVIDE ALL NECESSARY SHORING.
- CONTRACTOR SHALL USE ALL MEANS NECESSARY TO PROTECT PROJECT SITE AND MATERIALS BEFORE, DURING, AND AFTER INSTALLATION, INCLUDING THOSE BELONGING TO OTHER TRADES AND ORGANIZATIONS.

- 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. WHERE INFORMATION ON THE DRAWINGS IS IN CONFLICT WITH THE SPECIFICATIONS, THE MORE STRINGENT SHALL APPLY. DO NOT SCALE THE DRAWINGS.
- SHOP DRAWING REVIEW: DIMENSIONS AND QUANTITIES ARE NOT REVIEWED BY THE ENGINEER OF RECORD, AND THEREFORE MUST BE VERIFIED BY THE CONTRACTOR.

GEOTECHNICAL:

REPORT REFERENCE: GEOTECHNICAL ENGINEERING SERVICES, TERMINAL 117 SITE RESTORATION, BY GEOENGINEERS, MAY 7, 2014.

- FOUNDATION NOTES: PILE TIP ELEVATIONS ARE SHOWN ON PLANS.
- CONTRACTOR SHALL REFER TO THE GEOTECHNICAL ENGINEERING REPORT FOR RECOMMENDATIONS ON MEANS AND METHODS FOR INSTALLATION OF PILES AND OTHER FOUNDATIONS. WAVE EQUATION ANALYSIS OF PILES (WEAP), WILL BE REQUIRED TO BE SUBMITTED TO THE ENGINEER.
- CONTRACTOR SHALL COMPLY WITH THE RECOMMENDATIONS IN THE GEOTECHNICAL REPORT FOR THE PREPARATION OF SUBGRADE MATERIALS TO RECEIVE FOUNDATIONS, SIDEWALKS, AND OTHER ELEMENTS.

ANCHORAGE:

- EPOXY-GROUTED ITEMS (THREADED RODS OR REINFORCING BAR) SPECIFIED INTO CONCRETE SHALL BE INSTALLED USING I.C.C. APPROVED ANCHORS. INSTALL IN STRICT ACCORDANCE WITH I.C.C. REPORT, INCLUDING STANDARD EMBEDMENT REQUIREMENTS, U.O.N. SUBSTITUTIONS PROPOSED BY THE CONTRACTOR SHALL BE SUBMITTED FOR REVIEW WITH I.C.C. REPORTS INDICATING EQUIVALENT OR GREATER LOAD CAPACITIES. SPECIAL INSPECTION OF INSTALLATION IS REQUIRED.

STEEL:

- STRUCTURAL STEEL SHALL CONFORM TO THE FOLLOWING REQUIREMENTS:

TYPE OF MEMBER	A.S.T.M. SPECIFICATION	FY
A. ALL OTHER SHAPES	A36	36 KSI
B. PLATE	A36 OR A572	36 KSI (MIN)
C. PIPE PILE SECTIONS	A252 (GRADE 3)	40 KSI (MIN)
D. STRUCTURAL TUBING (SQUARE OR RECTANGULAR)	A500 (GRADE B)	46 KSI
E. ANCHOR RODS (EMBEDDED IN OR CONCRETE)	F1554 (GRADE 55)	36 KSI
F. CONNECTION BOLTS	A307	36 KSI
G. THREADED RODS	A325	92KSI
	A36	36 KSI

SUBSTITUTION OF MEMBER SIZES OR STEEL GRADE SHALL NOT BE ALLOWED WITHOUT THE PRIOR APPROVAL OF THE ENGINEER.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL ERECTION AIDS AND JOINT PREPARATIONS THAT INCLUDE, BUT ARE NOT LIMITED TO, ERECTION ANGLES, LIFT HOLES, AND OTHER AIDS, WELDING PROCEDURES, REQUIRED ROOT OPENINGS, ROOT FACE DIMENSIONS, GROOVE ANGLES, BACKING BARS, COPEs, SURFACE ROUGHNESS VALUES, AND UNEQUAL PARTS.

- ALL A307 CONNECTION BOLTS SHALL BE PROVIDED WITH LOCK WASHERS UNDER NUTS OR SELF-LOCKING NUTS. ALL BOLT HOLES SHALL BE STANDARD SIZE UNLESS OTHERWISE NOTED.
- SHOP DRAWINGS SHALL SHOW ALL WELDING WITH AWS A2.4 SYMBOLS. WELDS SHOWN ON DRAWINGS ARE MINIMUM SIZES. INCREASE WELDS SIZE TO AWS MINIMUM SIZES BASED ON PLATE THICKNESS. MINIMUM WELDING SHALL BE 1/4 INCH UNLESS NOTED OTHERWISE. THE WELDS SHOWN ARE FOR THE FINAL CONNECTIONS. FIELD WELD ARROWS ARE SHOWN WHERE A FIELD WELD IS REQUIRED BY THE STRUCTURAL DESIGN, THE CONTRACTOR IS RESPONSIBLE FOR DETERMINING IF A WELD SHOULD BE SHOP OR FIELD WELDED IN ORDER TO FACILITATE THE STRUCTURAL STEEL DELIVERY AND ERECTION.
- COPES SHALL BE ROUNDED WITH 1/4 OR LARGER RADIUS.

REINFORCED CONCRETE:

- REINFORCING STEEL
 - REINFORCING STEEL SHALL BE DEFORMED STEEL BARS CONFORMING TO ASTM A615, GRADE 60 DEFORMED, UNLESS NOTED OTHERWISE. REBAR SHALL BE BARE UNLESS NOTED OTHERWISE. EPOXY COAT PER SPECIFICATION 03 21 00 WHERE NOTED.
 - ALL WELDED REINFORCING STEEL SHALL BE ASTM A706, DEFORMED.
 - HEADED STEEL REINFORCING BARS SHALL CONFORM TO ASTM A970.
 - CONCRETE COVER FOR REINFORCING STEEL SHALL BE 2" UNO.
 - SPLICING OF LONGITUDINAL REINFORCEMENT UNDER 40 FEET IN LENGTH, EXCEPT AS SPECIFICALLY NOTED ON THE DRAWINGS, SHALL NOT BE PERMITTED. SPLICES SHALL BE STAGGERED WITH NO MORE THAN 50% OF THE BARS BEING SPLICED AT ANY ONE LOCATION. MINIMUM LENGTH OF LAP SPlice SHALL BE 50 TIMES THE BAR DIAMETER, EXCEPT LAP SPLICES FOR TOP BARS AND FOR #7 BARS & LARGER SHALL 80 TIMES THE BAR DIAMETER.
 - PROVIDE CORNER BARS AT ALL CORNERS. CORNER BARS SHALL MATCH THE NUMBER/SPACING AND DIAMETER OF ALL HORIZONTAL REINFORCEMENT AT THE CORNER. TERMINATED STRAIGHT BARS SHALL EXTEND THE FULL AVAILABLE LENGTH INTO ADJOINING MEMBERS. SPlice CORNER BAR TO TERMINATED STRAIGHT BAR WITH A MINIMUM SPlice LENGTH OF 50 BAR DIAMETERS.
 - ALL BARS SHOWN HOOKED SHALL HAVE STANDARD HOOKS PER ACI 318, UNLESS NOTED OTHERWISE.
 - MECHANICAL SPLICES SHALL DEVELOP AT LEAST 125 PERCENT OF THE YIELD STRENGTH OF THE BAR IN TENSION.
- CAST-IN-PLACE CONCRETE

LOCATION	f'c AT 28 DAYS	POS CLASS
A. ABUTMENTS, FOUNDATIONS, STRUCTURAL MEMBERS	4000 PSI	B
B. POST BASES, SIDEWALKS, AND ALL OTHER LOCATIONS	3000 PSI	E
- ALL EXPOSED CORNERS SHALL BE CHAMFERED 3/4 INCH UNLESS NOTED OTHERWISE.
- CONSTRUCTION JOINTS SHALL BE PROVIDED ONLY AS NOTED ON THE DRAWINGS OR OTHERWISE SPECIFICALLY APPROVED BY THE PORT.

STRUCTURAL OBSERVATION:

AS NOTED IN IBC SECTION 1704, STRUCTURAL OBSERVATION IS REQUIRED FOR THIS PROJECT. STRUCTURAL OBSERVATION MEANS THE VISUAL OBSERVATION OF THE STRUCTURAL SYSTEM, INCLUDING BUT NOT LIMITED TO, THE ELEMENTS AND CONNECTIONS AT SIGNIFICANT STAGES AND THE COMPLETED STRUCTURE FOR GENERAL CONFORMANCE TO THE APPROVED PLANS AND SPECIFICATIONS. STRUCTURAL OBSERVATION DOES NOT INCLUDE OR WAIVE THE RESPONSIBILITY OF THE INSPECTIONS REQUIRED BY IBC SECTIONS 110 AND 1704.

SPECIAL INSPECTION

SPECIAL INSPECTION SHALL BE SUPERVISED BY A QUALIFIED TESTING AGENCY DESIGNATED BY THE PORT OF SEATTLE IN ACCORDANCE WITH SECTION 1704 AND 1705 OF THE INTERNATIONAL BUILDING CODE, THE PROJECT SPECIFICATIONS, AND THE SPECIAL INSPECTION SCHEDULE AT THE END OF THE STRUCTURAL NOTES. THE TESTING AGENCY SHALL SEND COPIES OF ALL STRUCTURAL TESTING AND INSPECTION REPORTS DIRECTLY TO THE ENGINEER, CONTRACTOR, AND THE BUILDING OFFICIAL. ANY MATERIALS WHICH FAIL TO MEET PROJECT SPECIFICATIONS SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER.

	SPECIAL INSPECTION SCHEDULE:	CONT	PERIODIC
FOUNDATION	1. PILE DRIVING AND/OR DRILLING OF CAISSONS	X	
DRILLED IN ANCHORS	1. PLACEMENT OF RODS, DOWELS, AND POST-INSTALLED ANCHORS		X
STRUCTURAL STEEL	1. MATERIAL VERIFICATION OF STRUCTURAL STEEL: <ul style="list-style-type: none"> A. IDENTIFICATION MARKINGS TO CONFORM TO ASTM STANDARDS SPECIFIED IN THE APPROVED CONSTRUCTION DOCUMENTS B. MANUFACTURER'S CERTIFIED MILL TEST REPORTS 		X
	2. MATERIAL VERIFICATION OF WELD FILLER MATERIALS: <ul style="list-style-type: none"> A. IDENTIFICATION MARKINGS TO CONFORM TO AWS SPECIFICATION IN THE APPROVED CONSTRUCTION DOCUMENTS B. MANUFACTURER'S CERTIFICATE OF COMPLIANCE REQUIRED 	X	X
	3. INSPECTION OF WELDING <ul style="list-style-type: none"> A. STRUCTURAL STEEL: <ul style="list-style-type: none"> 1) COMPLETE AND PARTIAL PENETRATION GROOVE WELDS 2) MULTIPASS FILLET WELDS 3) SINGLE PASS FILLET WELDS >5/16" 4) SINGLE PASS FILLET WELDS <5/16" 	X	X
	4. INSPECTION OF STEEL FRAME JOINT DETAILS FOR COMPLIANCE WITH APPROVED CONSTRUCTION DOCUMENTS: <ul style="list-style-type: none"> A. DETAILS SUCH AS BRACING AND STIFFENING B. MEMBER LOCATIONS C. APPLICATION OF JOINT DETAILS AT EACH CONNECTION 	X	X

NOTES:

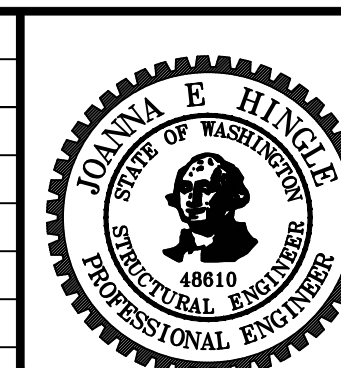
- THE ITEM CHECKED WITH AN "X" SHALL BE INSPECTED IN ACCORDANCE WITH IBC CHAPTER 17 BY A CERTIFIED SPECIAL INSPECTOR FROM AN ESTABLISHED TESTING AGENCY. FOR MATERIAL SAMPLING AND TESTING REQUIREMENTS REFER TO THE PROJECT SPECIFICATIONS, THE STRUCTURAL NOTES, AND THE NOTES BELOW. SPECIAL INSPECTION TESTING REQUIREMENTS APPLY EQUALLY TO ALL BIDDER DESIGNED COMPONENTS.
- CONTINUOUS INSPECTION MEANS THAT THE SPECIAL INSPECTOR IS ON THE SITE AT ALL TIMES OBSERVING THE WORK REQUIRING SPECIAL INSPECTION (IBC 1702). PERIODIC SPECIAL INSPECTION MEANS THAT THE SPECIAL INSPECTOR IS ON SITE AT TIME INTERVALS NECESSARY TO CONFIRM THAT ALL WORK REQUIRING SPECIAL INSPECTION IS IN COMPLIANCE.
- INSPECTION OF DRILLED ANCHORS, INCLUDING EXPANSION AND ADHESIVE GROUTED ANCHORS, WHERE SPECIFIED, SHALL INCLUDE VISUAL VERIFICATION OF DRILLED HOLE DEPTH, SPACING, EDGE DISTANCES, AND HOLE CLEANING.
- ALL COMPLETE PENETRATION WELDS SHALL BE TESTED ULTRASONICALLY OR AS OTHERWISE SPECIFIED OR BY USING ANOTHER APPROVED METHOD.
- ALL WELDS SHALL BE VISUALLY INSPECTED.

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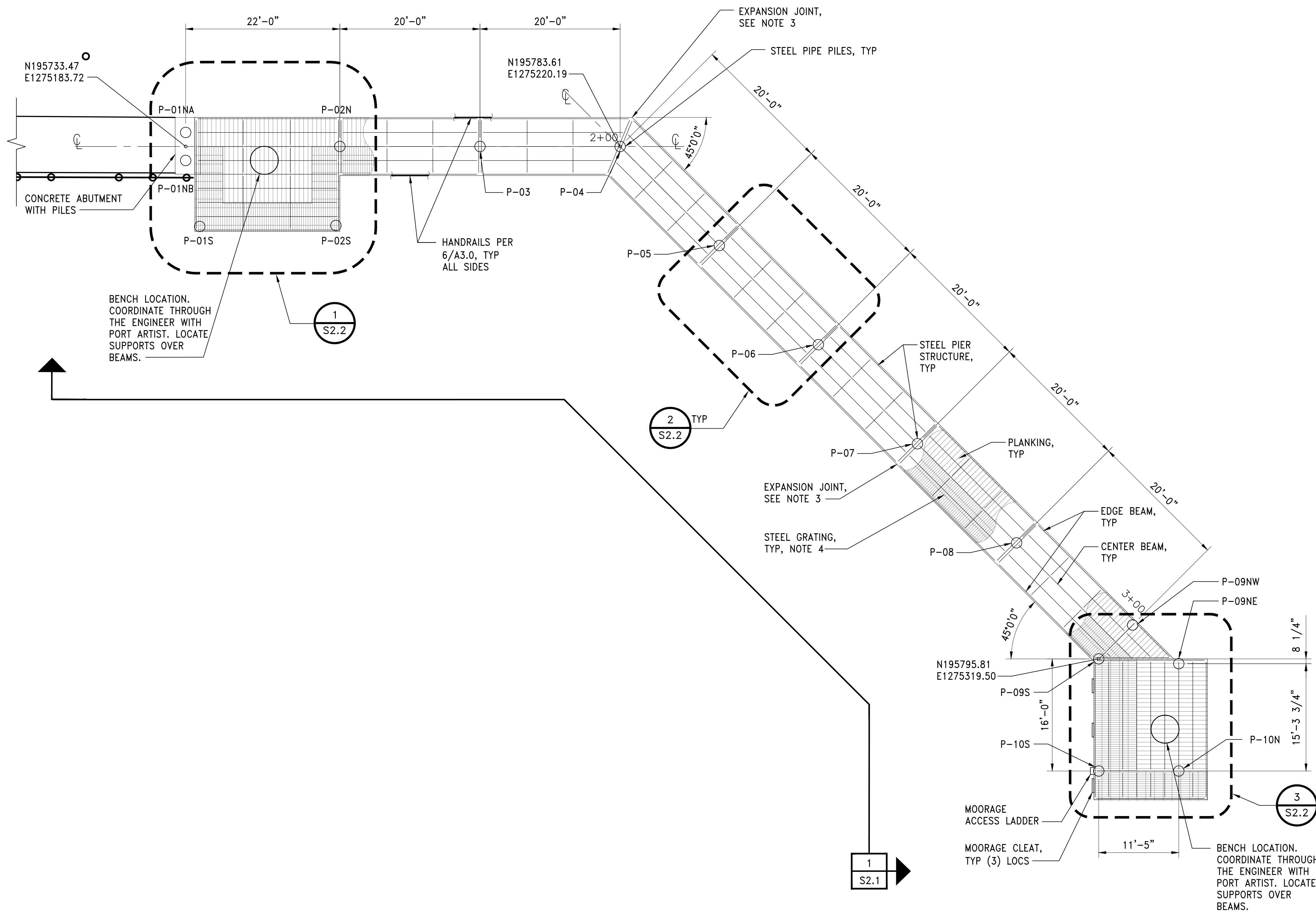


PROJECT MANAGER: TICSON MACH
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DESIGN ENGINEER: JOANNA HINGLE
DRAWER: KEN LANE
SCALE: AS SHOWN
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Port of Seattle MARITIME DIVISION
PROJECT: SITE 23 & 25 RESTORATION
SHEET TITLE: STRUCTURAL NOTES

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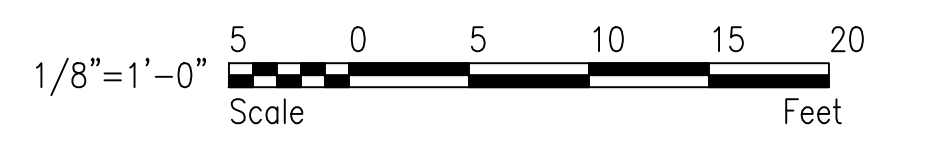
- NOTES:**
1. INSTALLATION OF PIER PILES SHALL OCCUR WITHIN THE IN-WATER WORK WINDOW. SEE SHEET C2.0
 2. ALL STEEL FRAMING SHALL BE EPOXY COATED IN ACCORDANCE WITH THE SPECIFICATIONS.
 3. AT EXPANSION JOINT CENTER BEAM, SEE 2/S2.5. AT EDGE BEAM SEE 1/S2.5
 4. GRATING SHALL BE PER SPECIFICATIONS INCLUDING NARROWEST GAP DIMENSION OF NOT MORE THAN 15/16 INCH.
 5. STEEL FRAMING SHALL BE WATER-TIGHT TO INSIDE OF ALL HSS MEMBERS. INCREASE WELD SIZE OR EXTENTS AS REQUIRED.
 6. TOP OF STEEL ELEVATION IS 17'-0" UNLESS NOTED OTHERWISE. [x"] INDICATES VARIATION FROM TYPICAL ELEVATION WHERE NOTED WITH BEAM CALL-OUTS ON S2.2.

LEGEND:

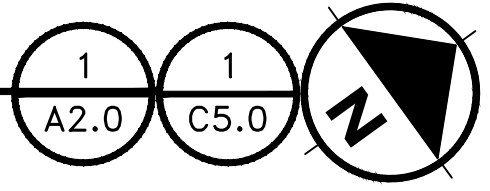
P-03 PILE LABEL

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GRAPHIC SCALES



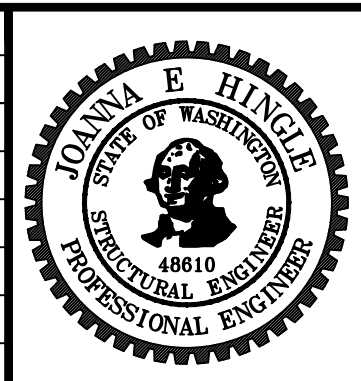
PIER PLAN
SCALE: 1/8"=1'-0"



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JOANNA HINGLE
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Port of Seattle MARITIME DIVISION
PROJECT: SITE 23 & 25 RESTORATION
SHEET TITLE: PIER PLAN

WORK PROJECT NO. 105563
CONSULTANT'S NO.
PORT OF SEATTLE NO. 117-1201 **S2.0**

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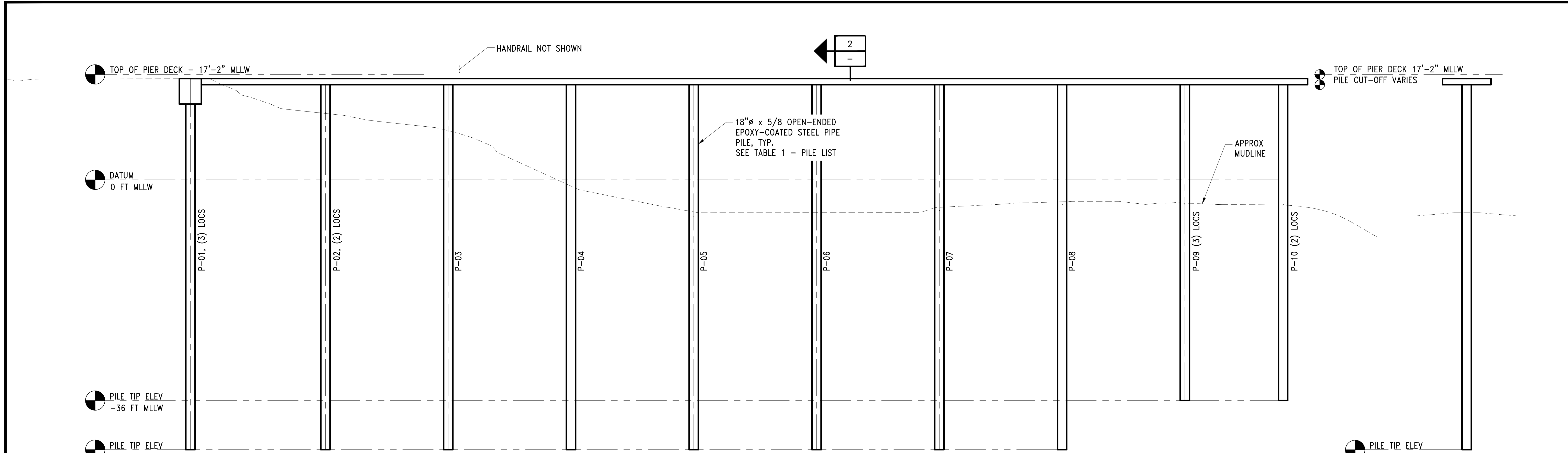
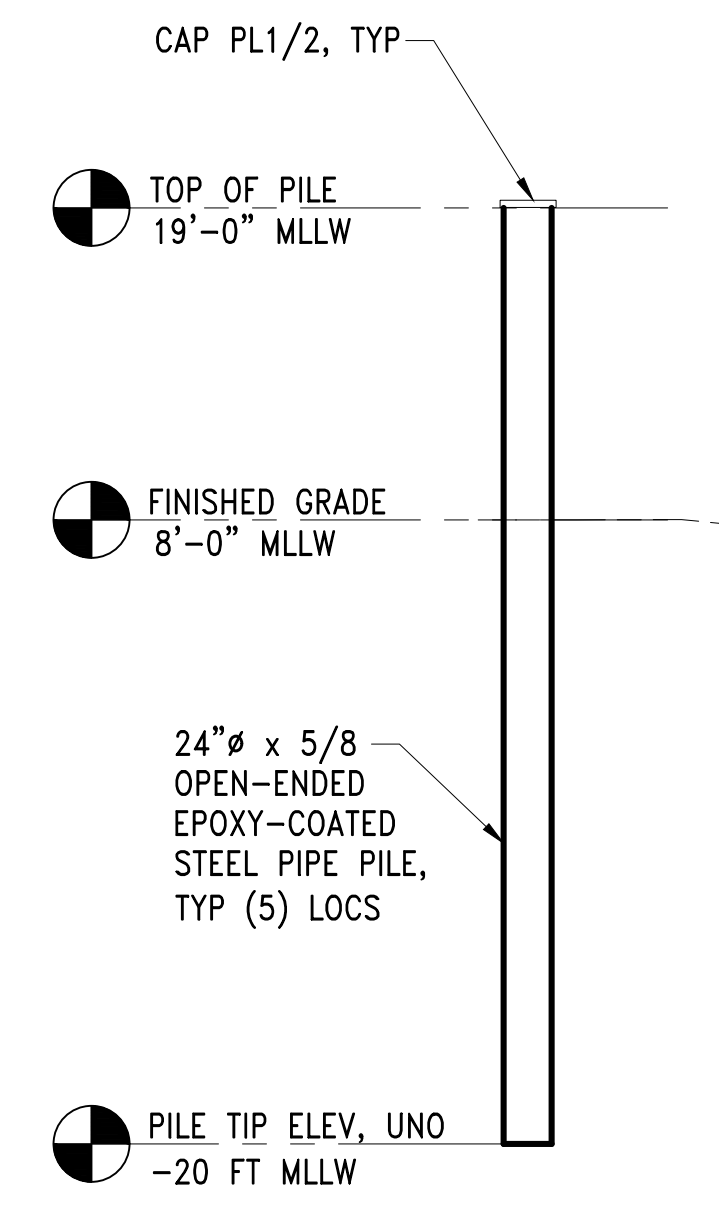


TABLE 1 - PILE LIST

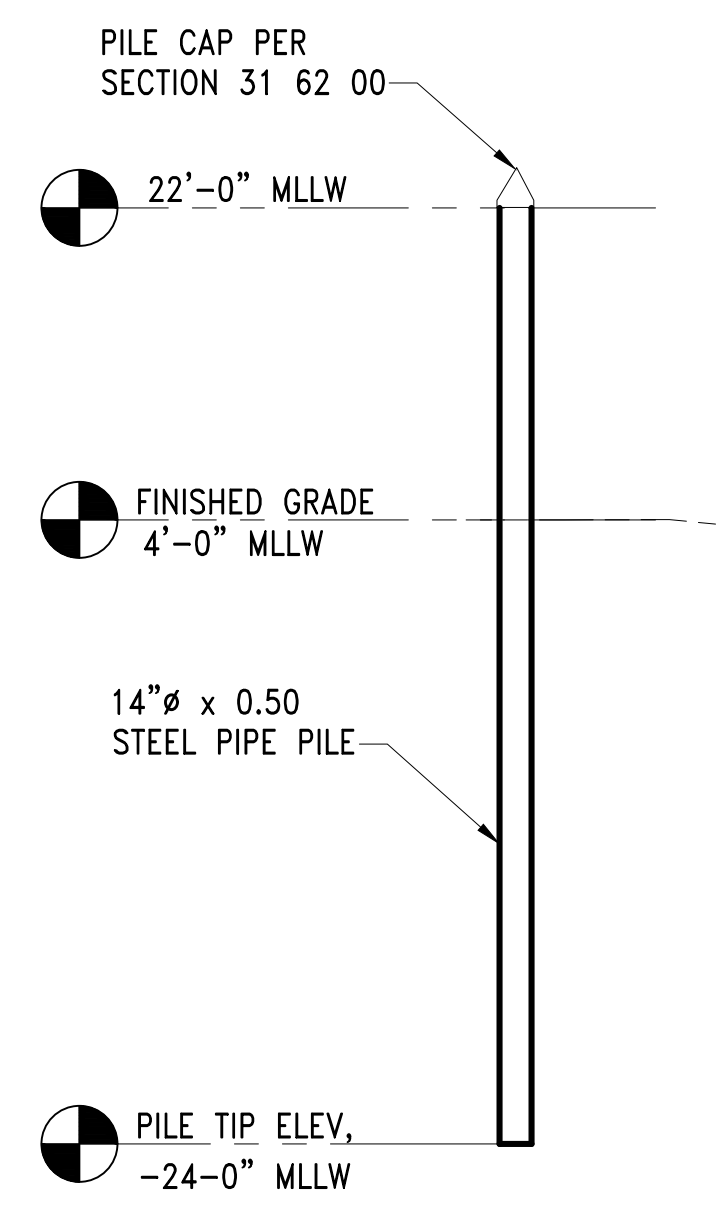
PILE #	QUANTITY	CUT-OFF ELEVATION	TIP ELEVATION	ORDER LENGTH	CAPACITY
P-01	3	+15'-4"	-44 FT	60 FT	90 K
P-02	2	+15'-11"	-44 FT	60 FT	90 K
P-03	1	+15'-11"	-44 FT	60 FT	90 K
P-04	1	+15'-10 1/2"	-44 FT	60 FT	85 K
P-05	1	+15'-11"	-44 FT	60 FT	70 K
P-06	1	+15'-11"	-44 FT	60 FT	70 K
P-07	1	+15'-10 1/2"	-44 FT	60 FT	70 K
P-08	1	+15'-11"	-44 FT	60 FT	70 K
P-09	3	+15'-11"	-36 FT	55 FT	40 K
P-10	2	+15'-11"	-36 FT	55 FT	40 K

PIER ELEVATION (OPENED) 1
SCALE: 1/8" = 1'-0"



SECTION 3
TYPICAL TREATY FISHING PILE
SCALE: 1/8" = 1'-0"

SECTION 2
PILE TIP ELEV VARIES
SCALE: 1/8" = 1'-0"



SECTION 4
DEBRIS DEFLECTOR PILE
SCALE: 1/8" = 1'-0"

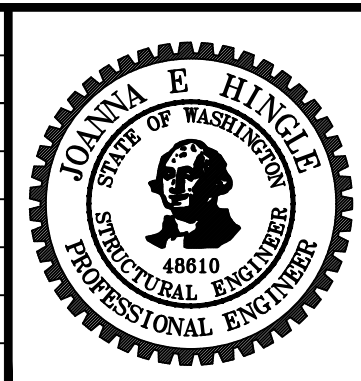
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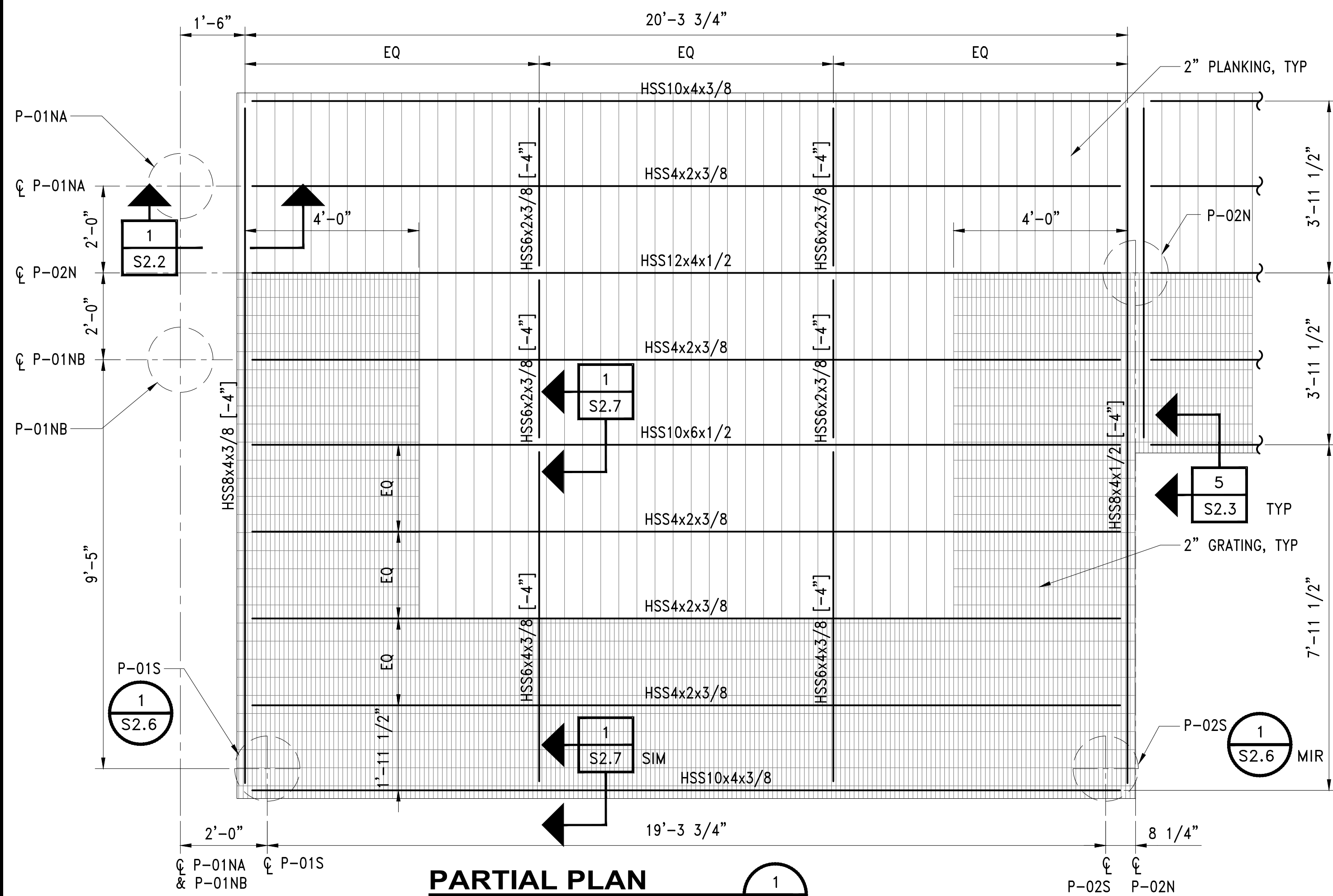


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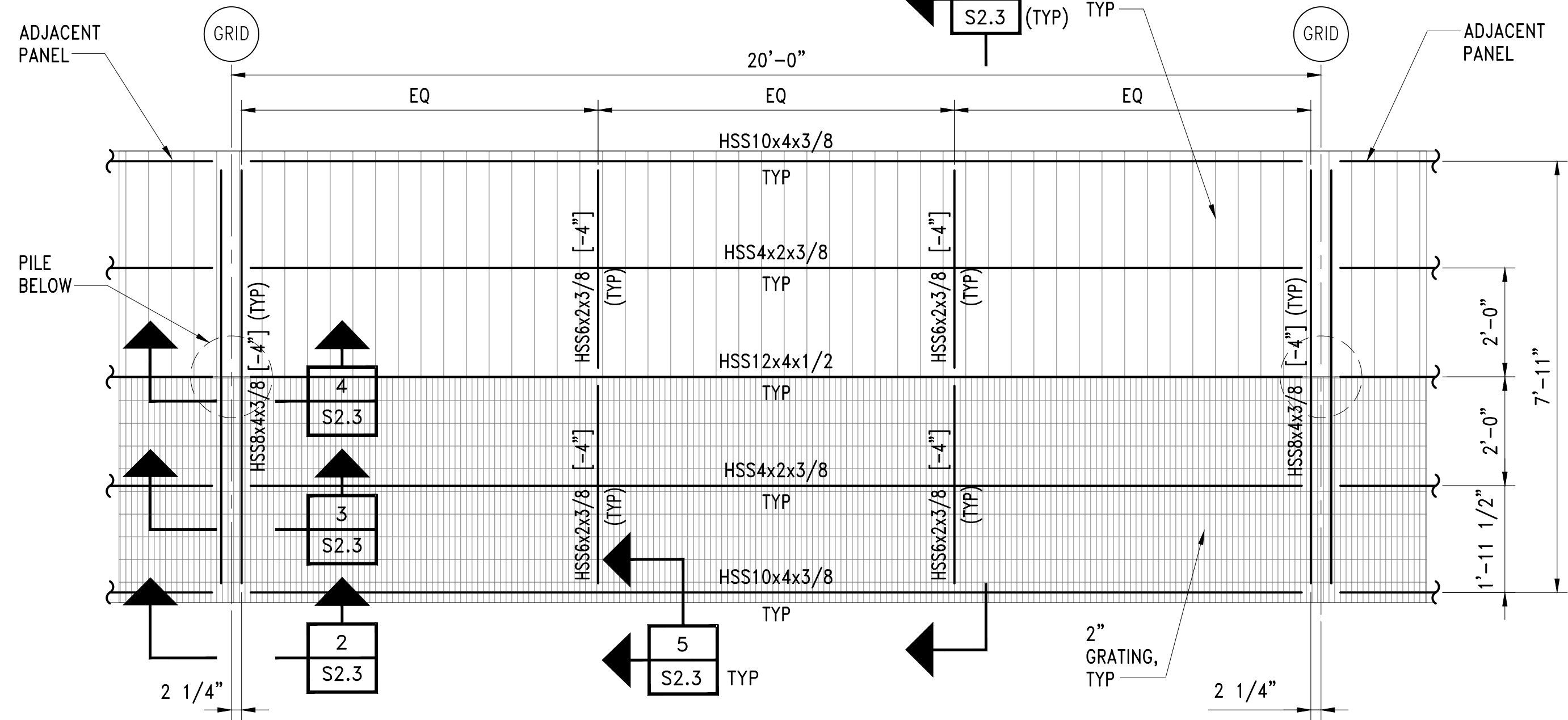
Port of Seattle MARITIME DIVISION
PROJECT: SITE 23 & 25 RESTORATION
SHEET TITLE: PIER ELEVATION AND OTHER PILES

WORK PROJECT NO.
105563
CONSULTANT'S NO.
PORT OF SEATTLE NO.
117-1201 **S2.1**

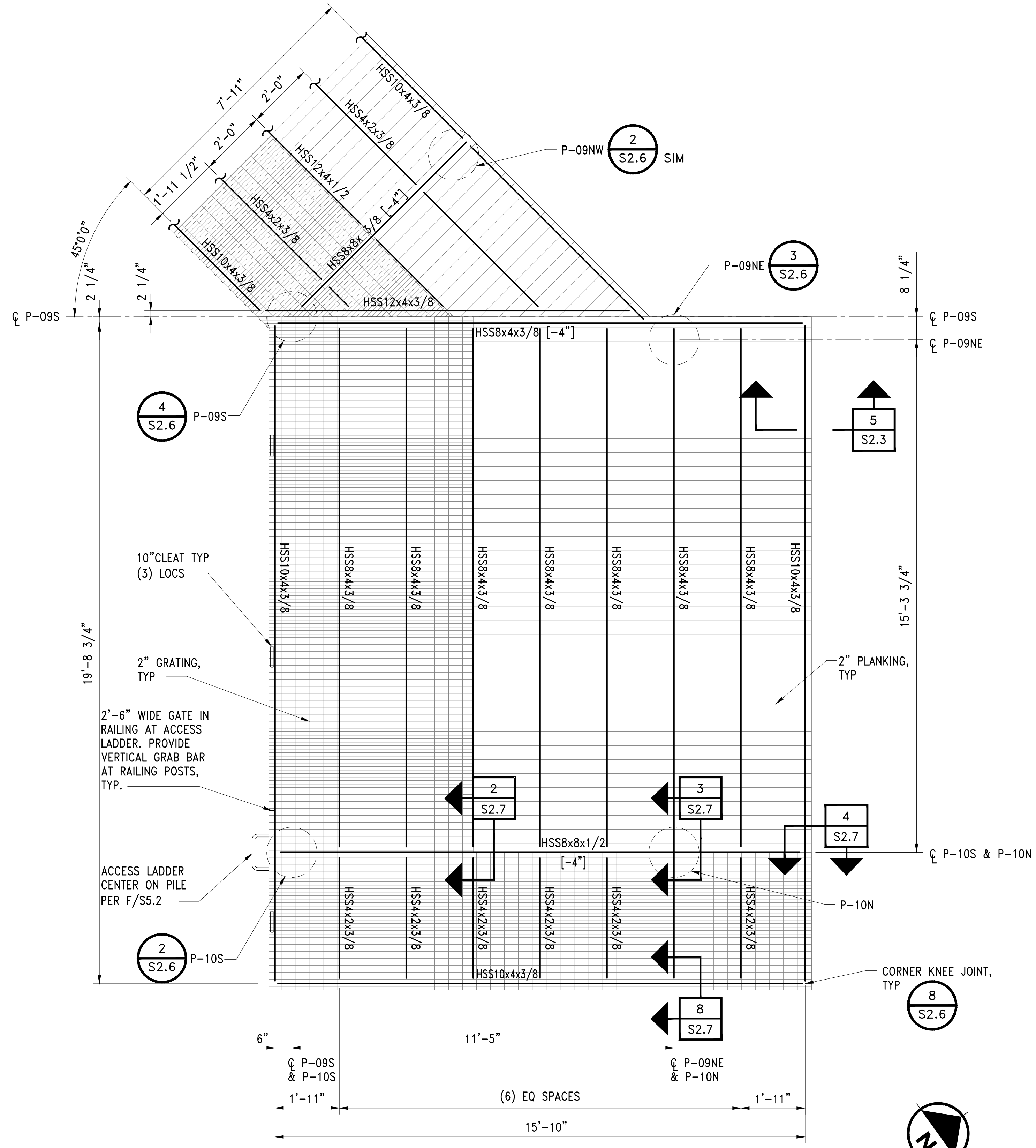
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PARTIAL PLAN 1
 WEST END OF PIER
 SCALE: 1/2"=1'-0"

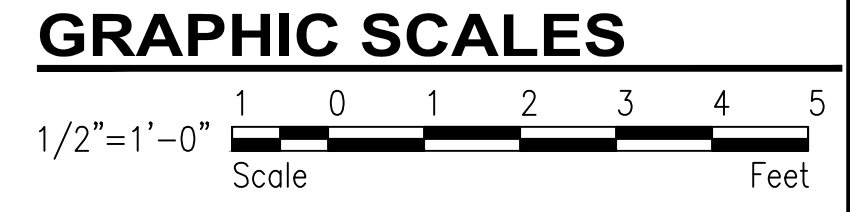


PARTIAL PLAN 2
 TYPICAL PIER BENT
 SCALE: 1/2"=1'-0"



PARTIAL PLAN 3
 EAST END OF PIER
 SCALE: 1/2"=1'-0"

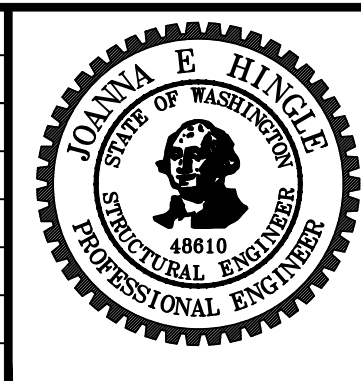
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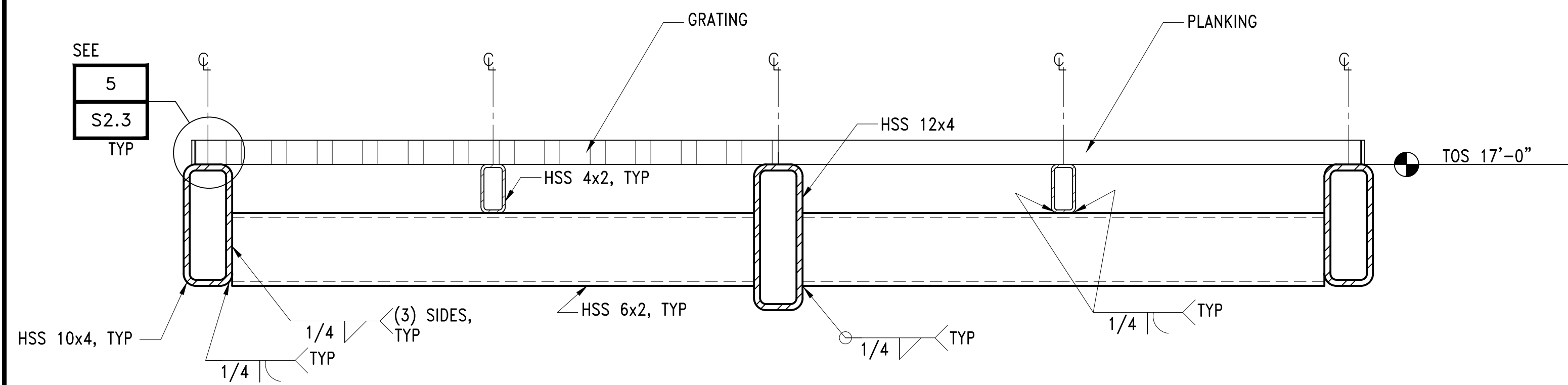


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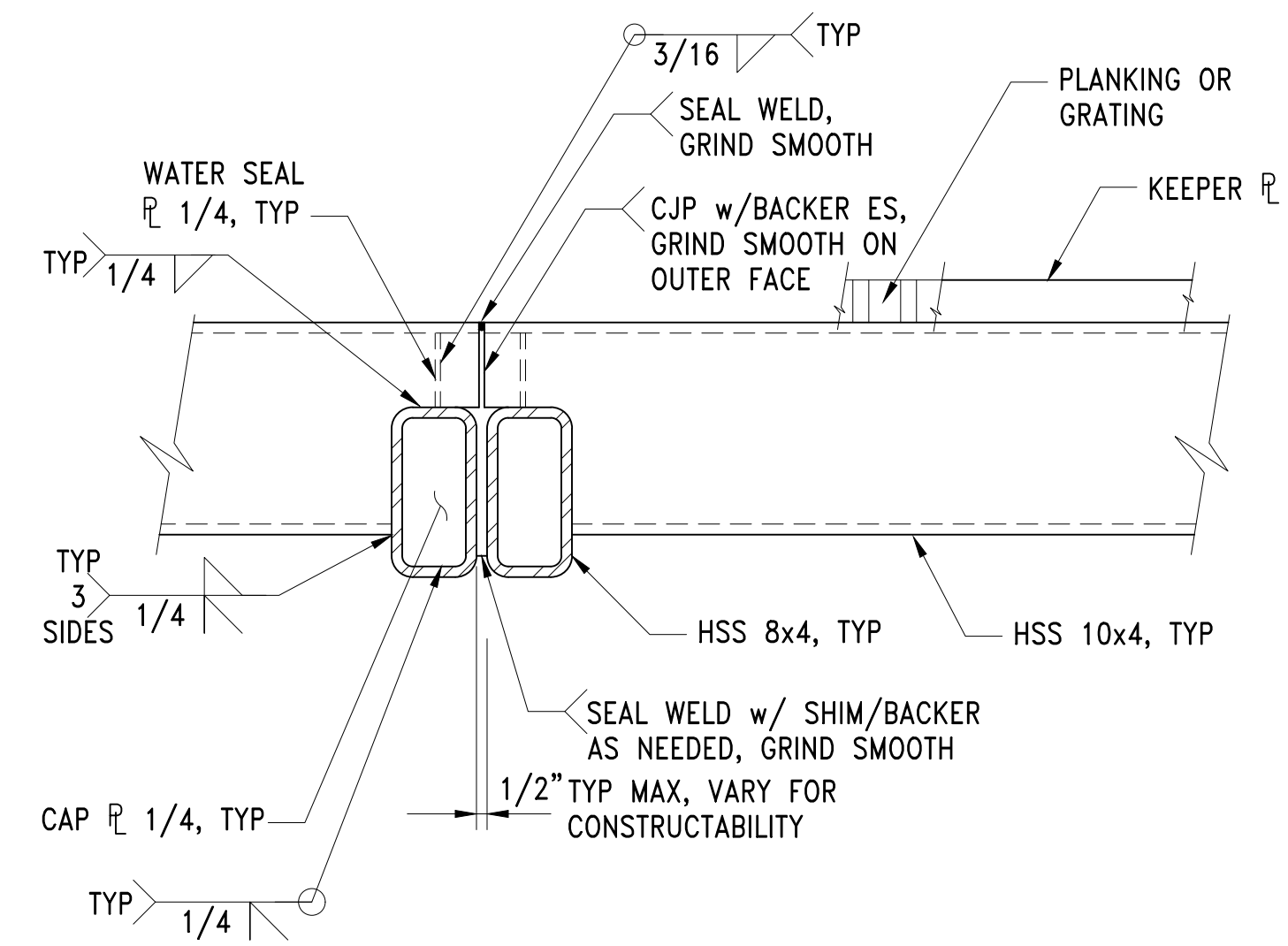
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 PROJECT: SITE 23 & 25 RESTORATION
 SHEET TITLE: PIER DETAILS - SHEET 1

WORK PROJECT NO.
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 CONSULTANT'S NO.
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 117-1201 **S2.2**

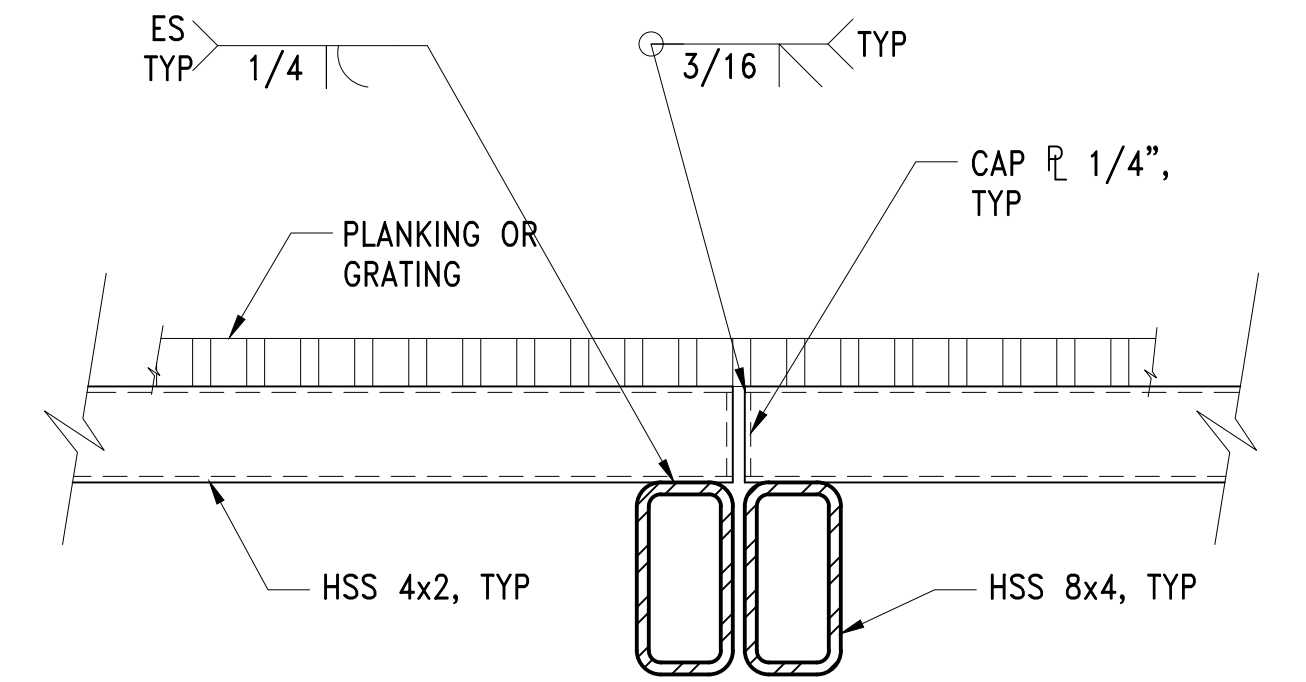
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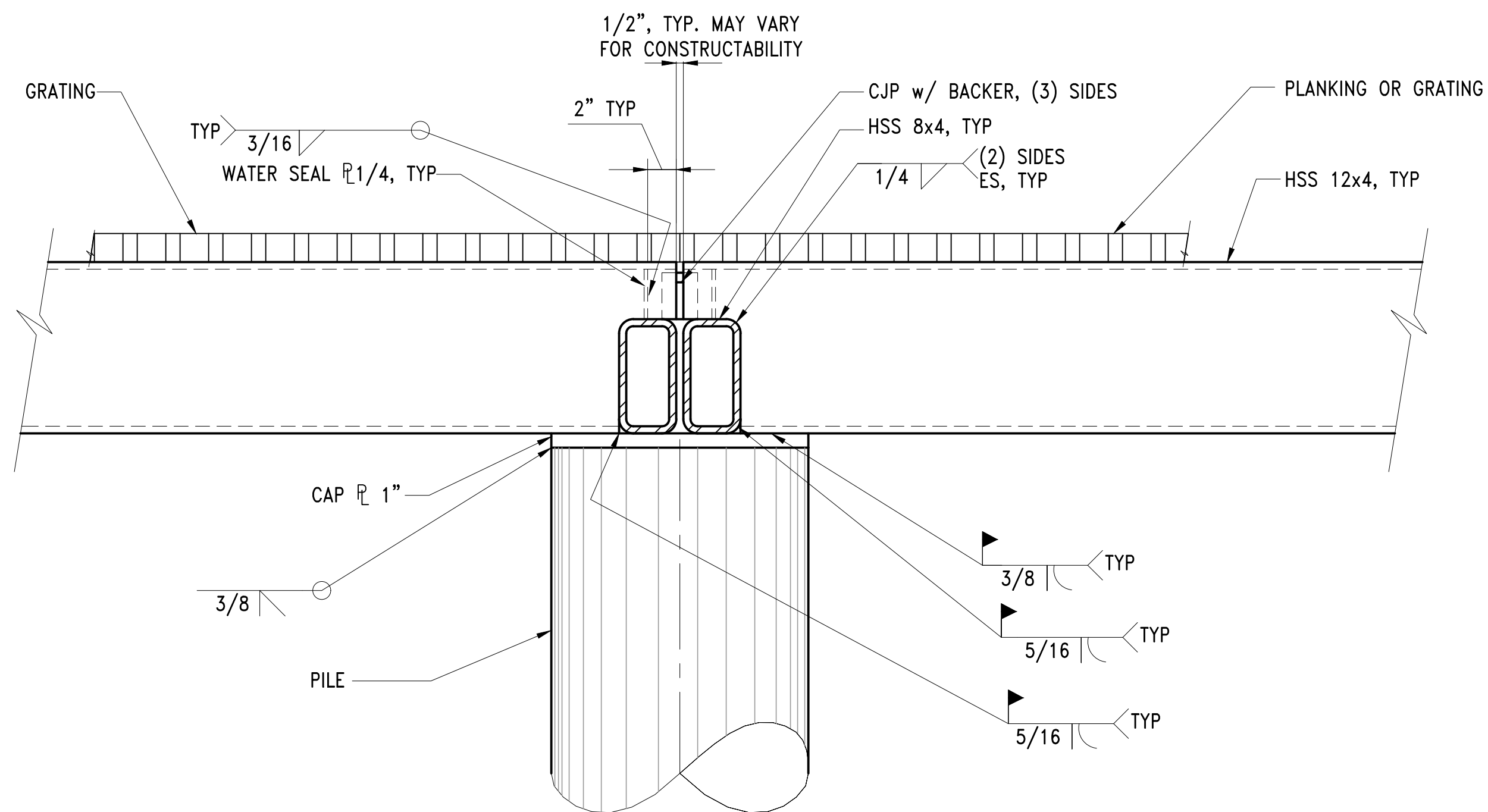
SECTION 1
TYPICAL PIER SECTION
SCALE: 1 1/2" = 1'-0"
S2.2



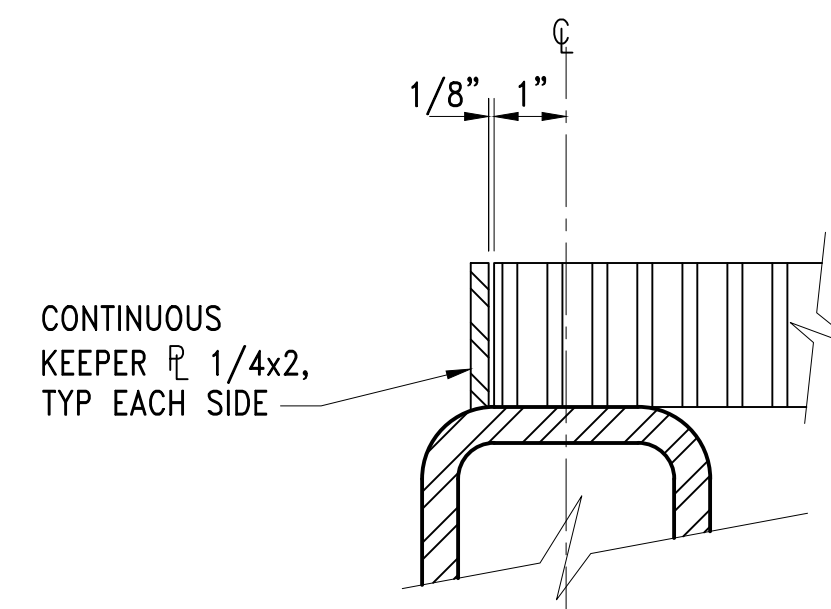
SECTION 2
TYPICAL EDGE BEAM CONNECTION
SCALE: 1 1/2" = 1'-0"
S2.2



SECTION 3
TYPICAL JOIST CONNECTION
SCALE: 1 1/2" = 1'-0"
S2.2



SECTION 4
TYPICAL CENTER BEAM CONNECTION
SCALE: 1 1/2" = 1'-0"
S2.2



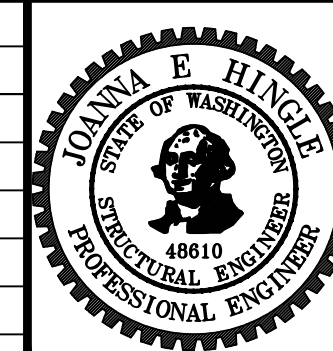
SECTION 5
TYPICAL EDGE BEAM CONNECTION
SCALE: NTS
S2.2

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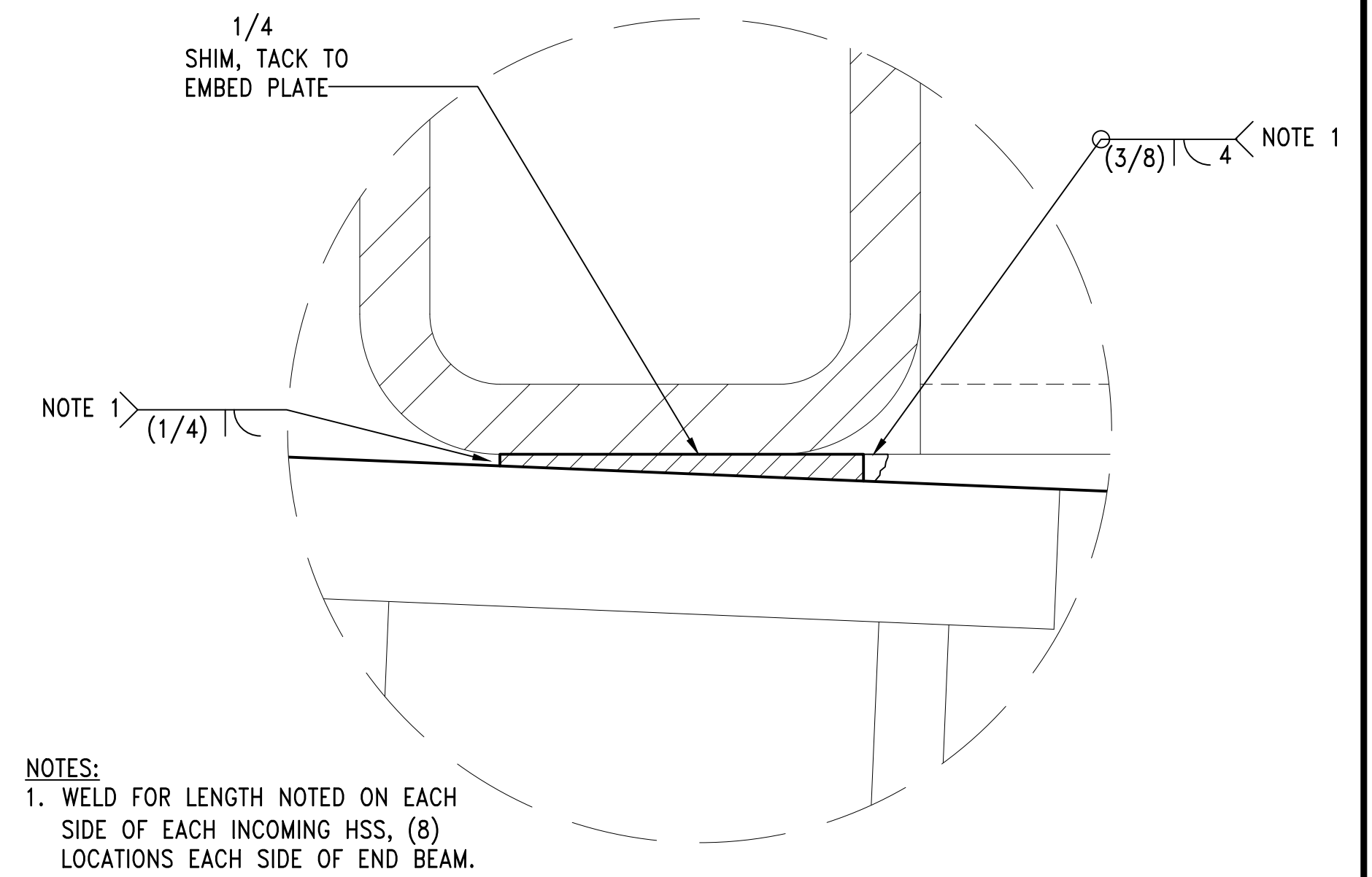
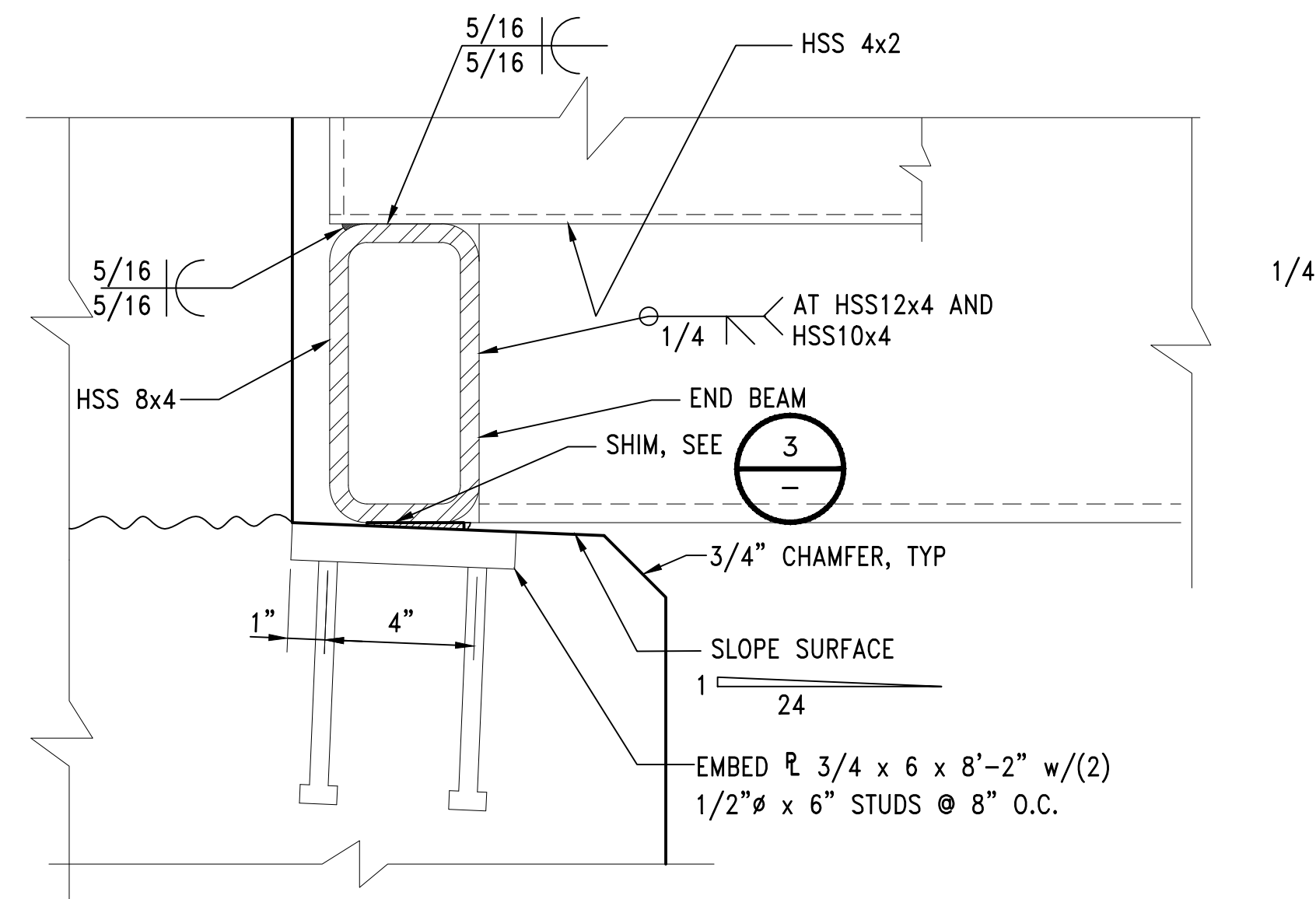
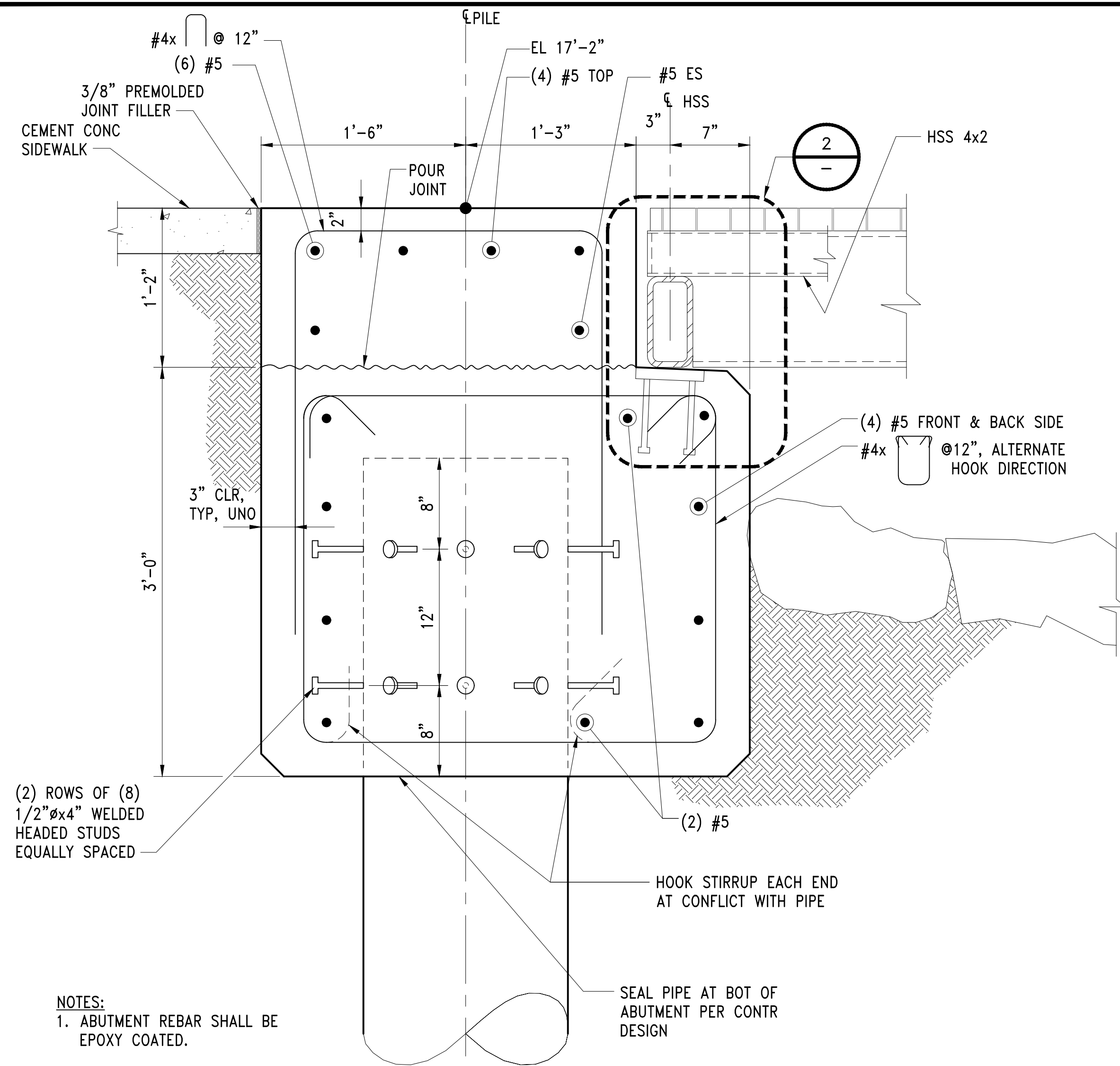


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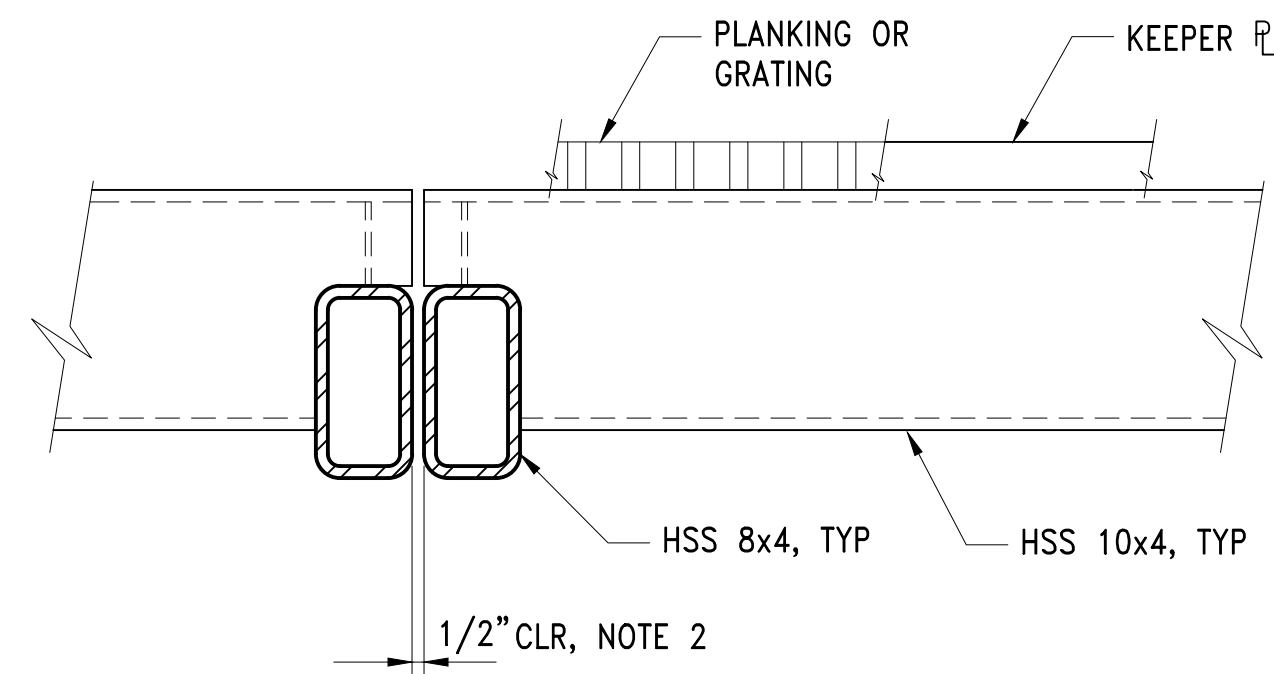
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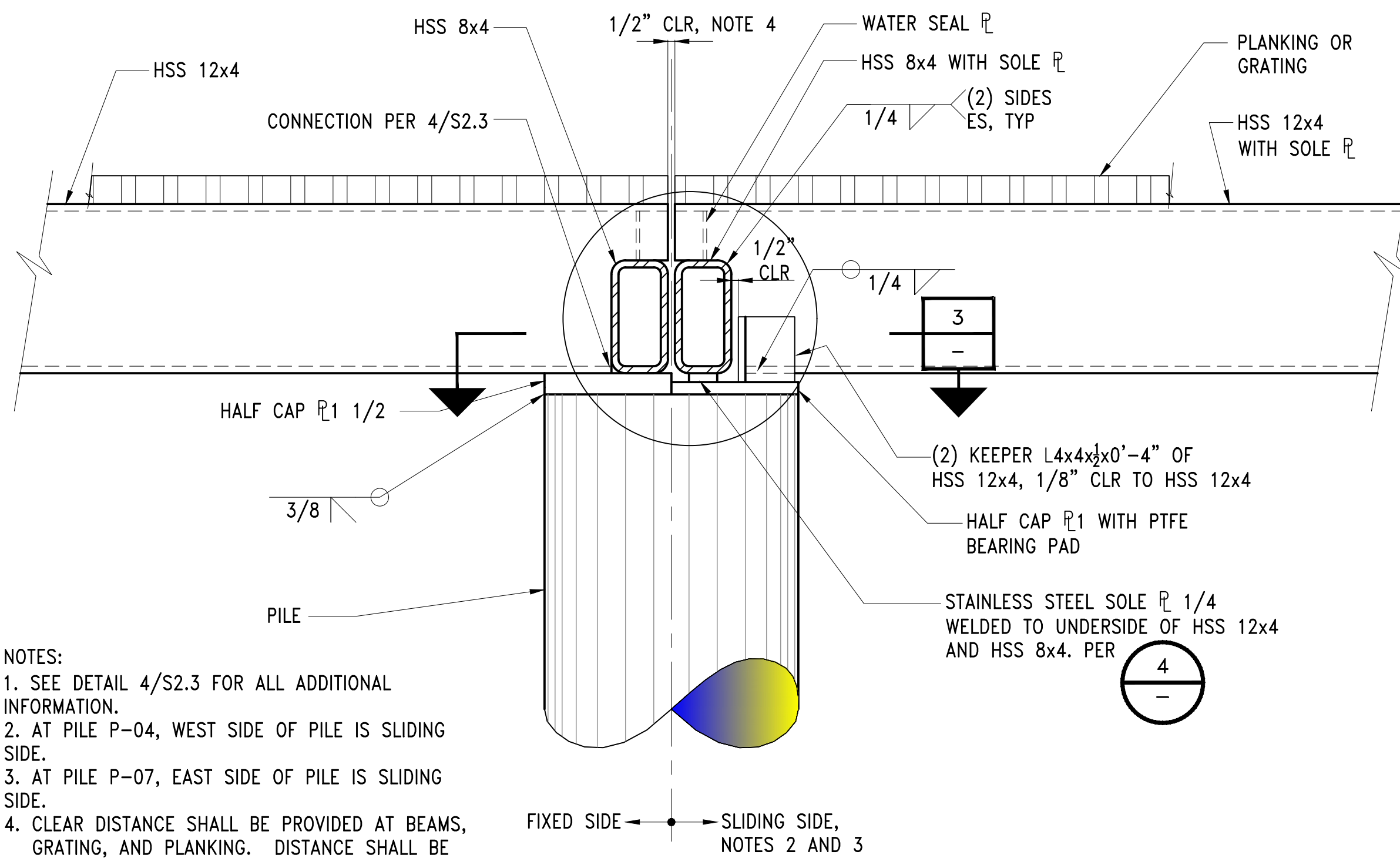
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PROJECT: SITE 23 & 25 RESTORATION
SHEET TITLE: PIER DETAILS - SHEET 3

WORK PROJECT NO.
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117-1201 **S2.4**



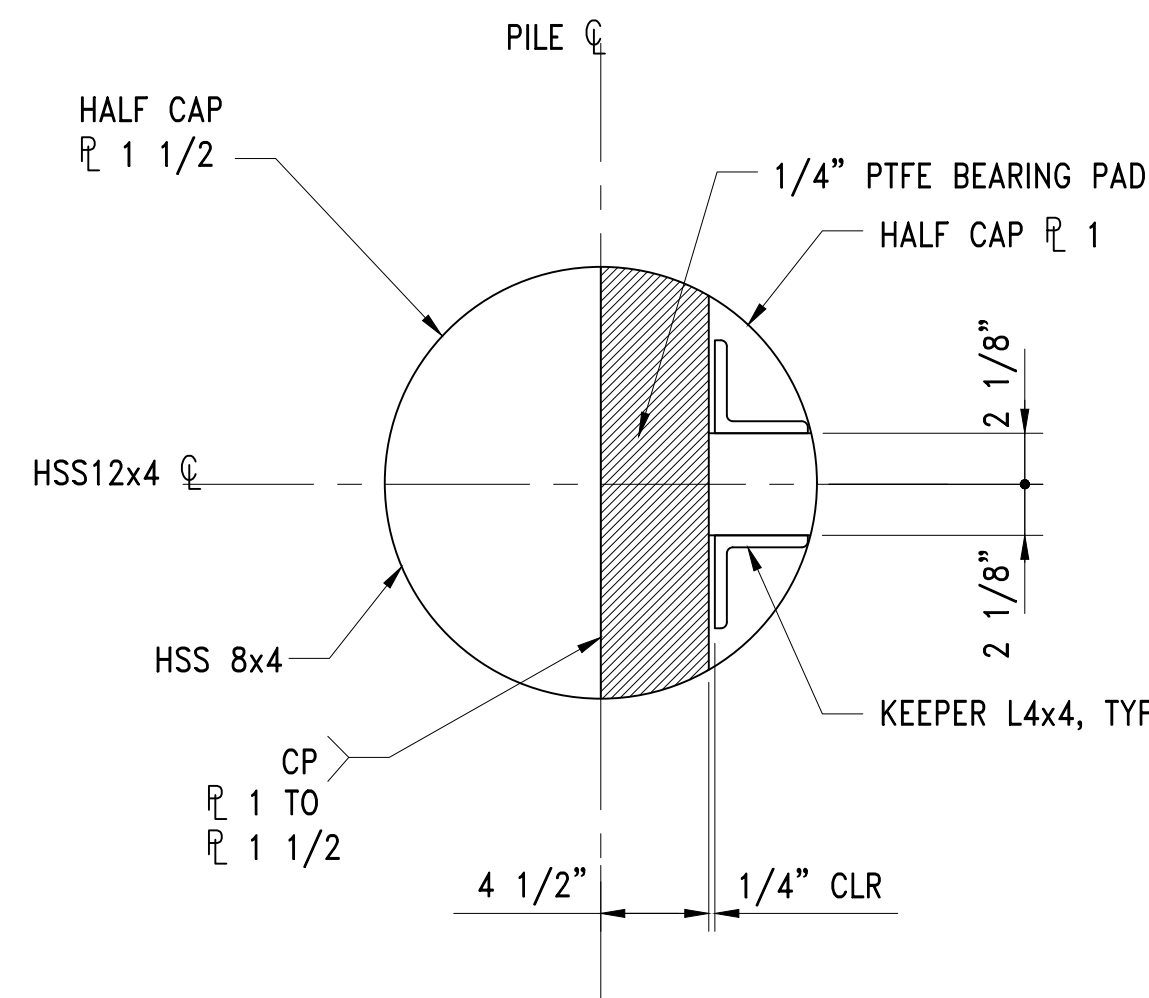
- NOTES:
- SEE DETAIL 2/S2.3 FOR ALL ADDITIONAL INFORMATION.
 - CLEAR DISTANCE SHALL BE PROVIDED AT BEAMS, GRATING, AND PLANKING. DISTANCE SHALL BE MEASURED AT TEMPERATURES NOT LESS THAN 40 AND NOT MORE THAN 70 DEGREES FAHRENHEIT.

SECTION 1
EDGE BM AT EXPANSION JT
SCALE: 1 1/2" = 1'-0"

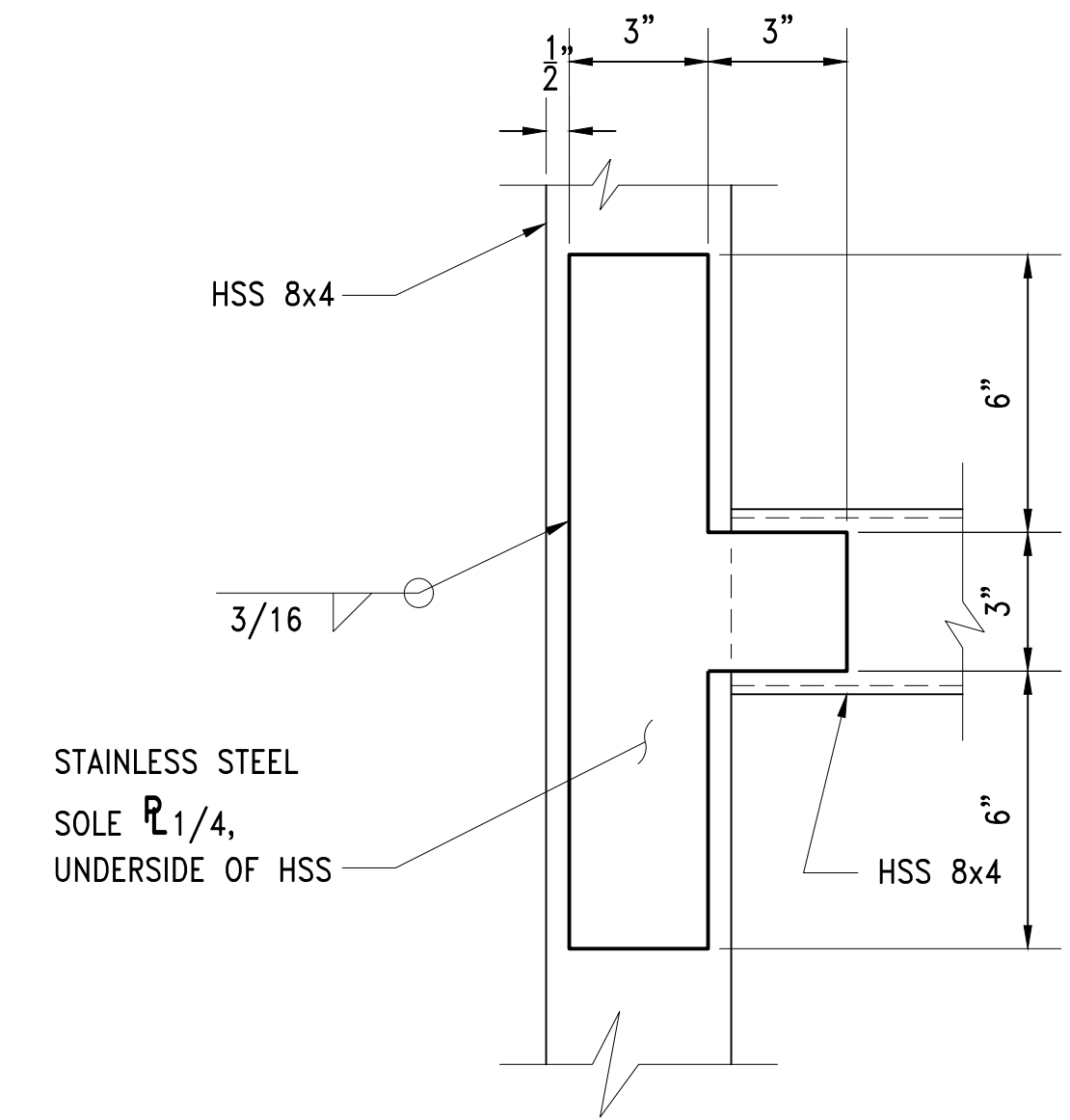


- NOTES:
- SEE DETAIL 4/S2.3 FOR ALL ADDITIONAL INFORMATION.
 - AT PILE P-04, WEST SIDE OF PILE IS SLIDING SIDE.
 - AT PILE P-07, EAST SIDE OF PILE IS SLIDING SIDE.
 - CLEAR DISTANCE SHALL BE PROVIDED AT BEAMS, GRATING, AND PLANKING. DISTANCE SHALL BE MEASURED AT TEMPERATURES NOT LESS THAN 40 AND NOT MORE THAN 70 DEGREES FAHRENHEIT.

SECTION 2
CENTER BM AT EXPANSION JT
SCALE: 1 1/2" = 1'-0"



SECTION 3
PTFE BEARING PAD
SCALE: 1 1/2" = 1'-0"



DETAIL 4
SOLE PLATE
SCALE: 1 1/2" = 1'-0"

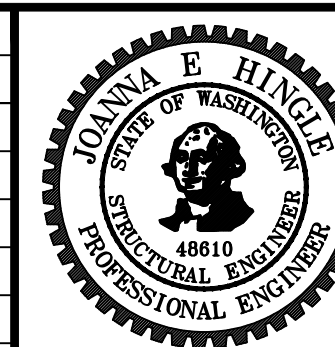
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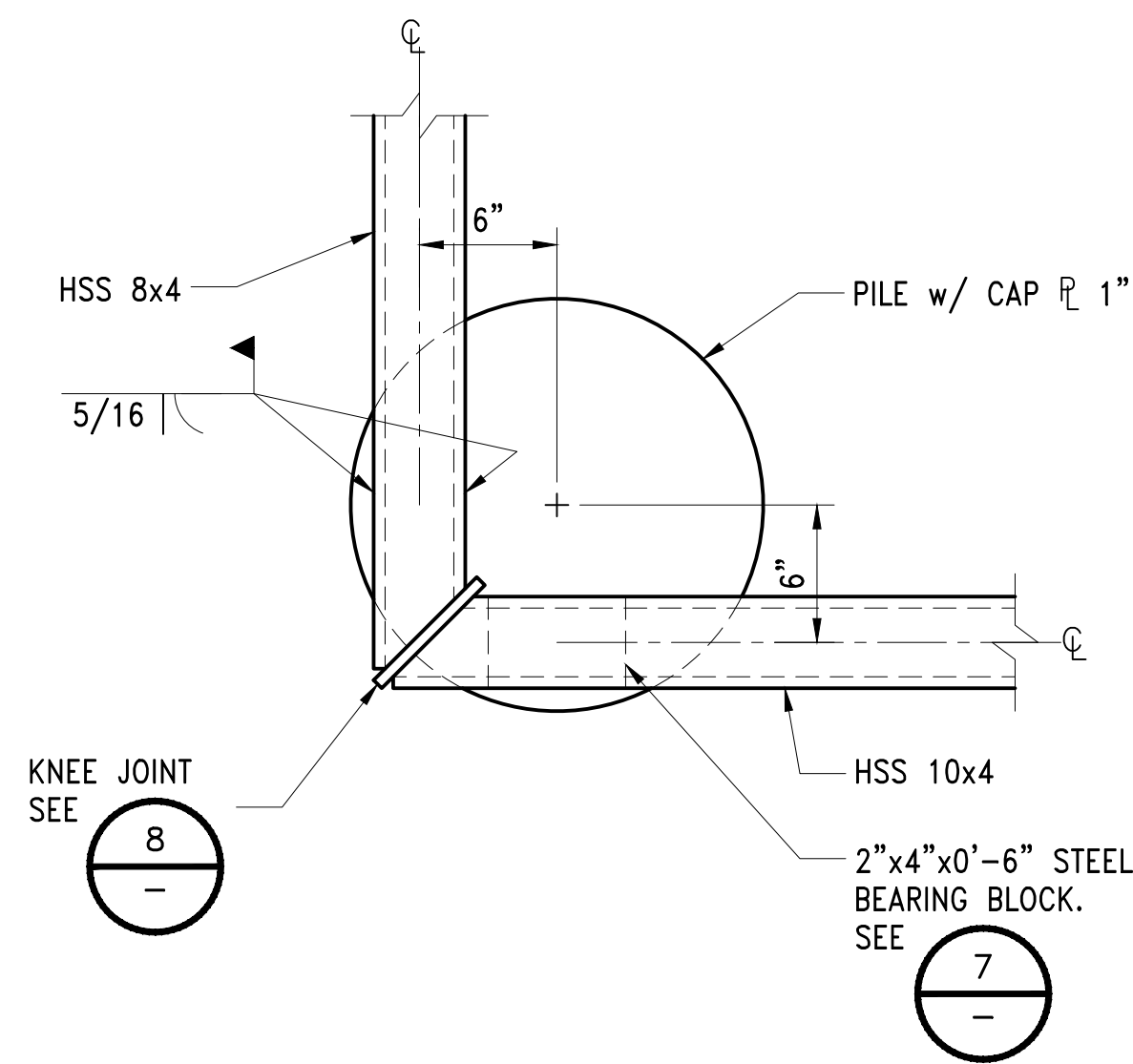


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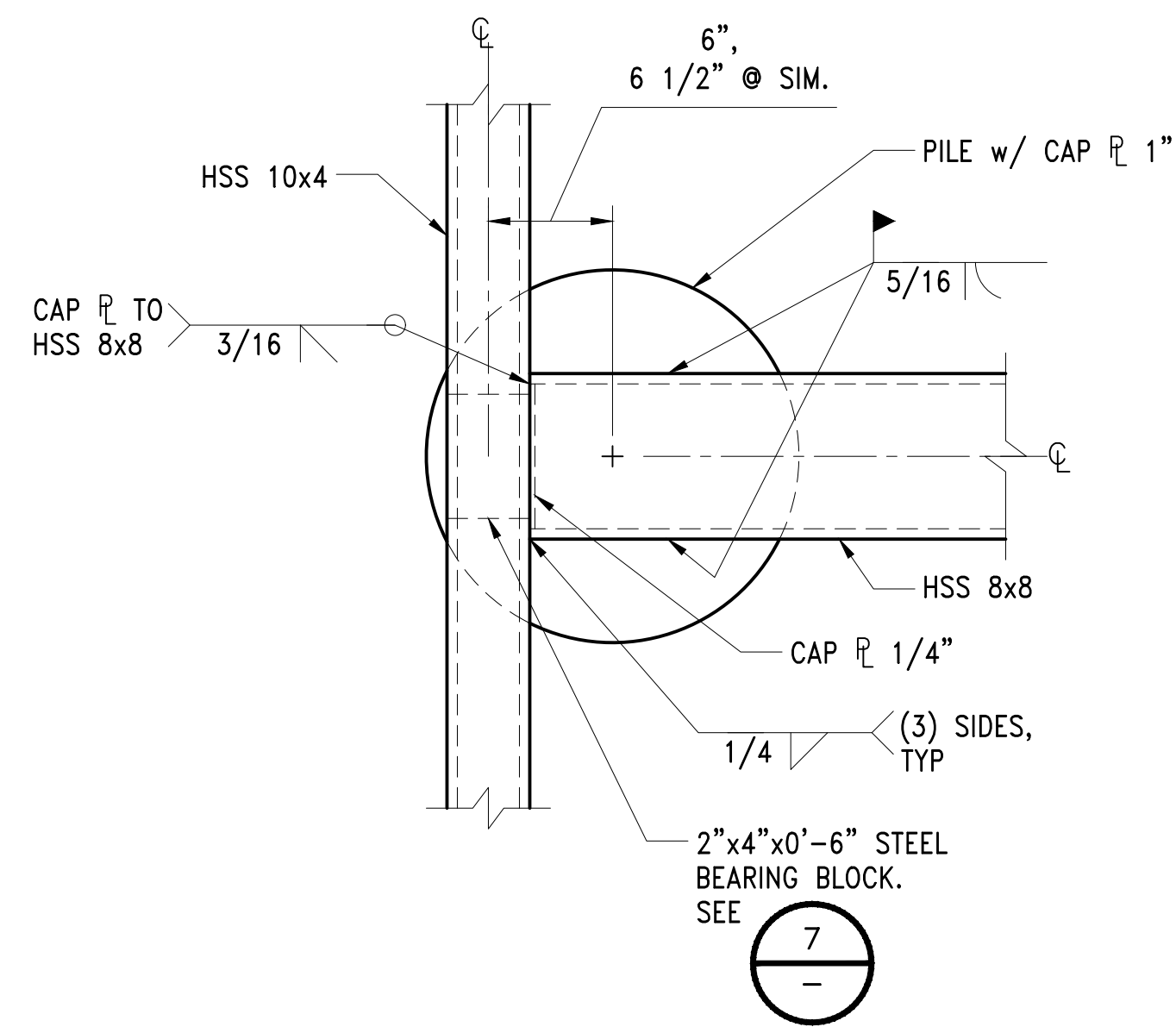
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PROJECT: SITE 23 & 25 RESTORATION
SHEET TITLE: PIER DETAILS - SHEET 4

WORK PROJECT NO.
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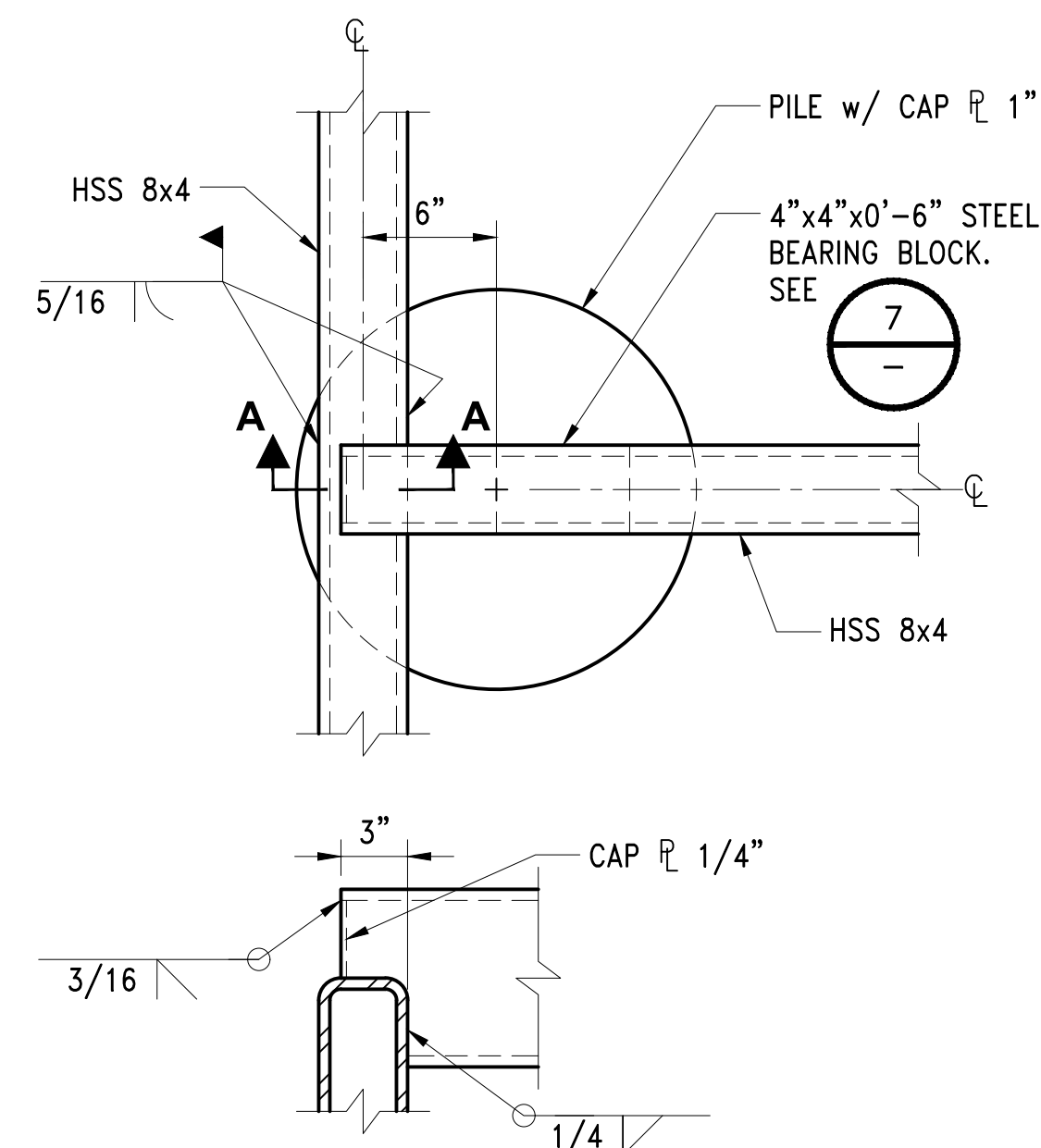
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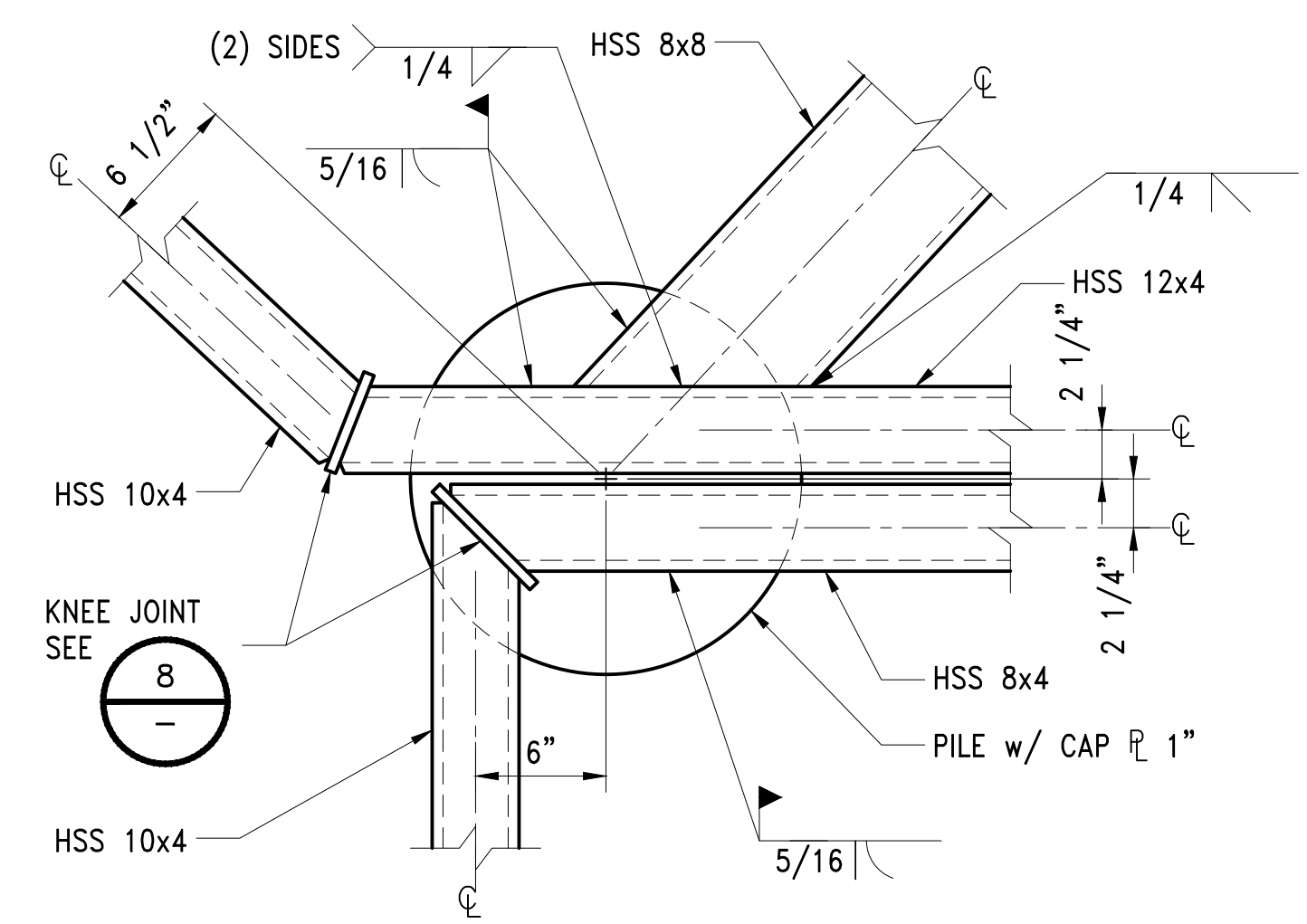
DETAIL 1
PILE CAP PLAN: P-01S, P-02S
SCALE: 1 1/2"=1'-0" S2.2



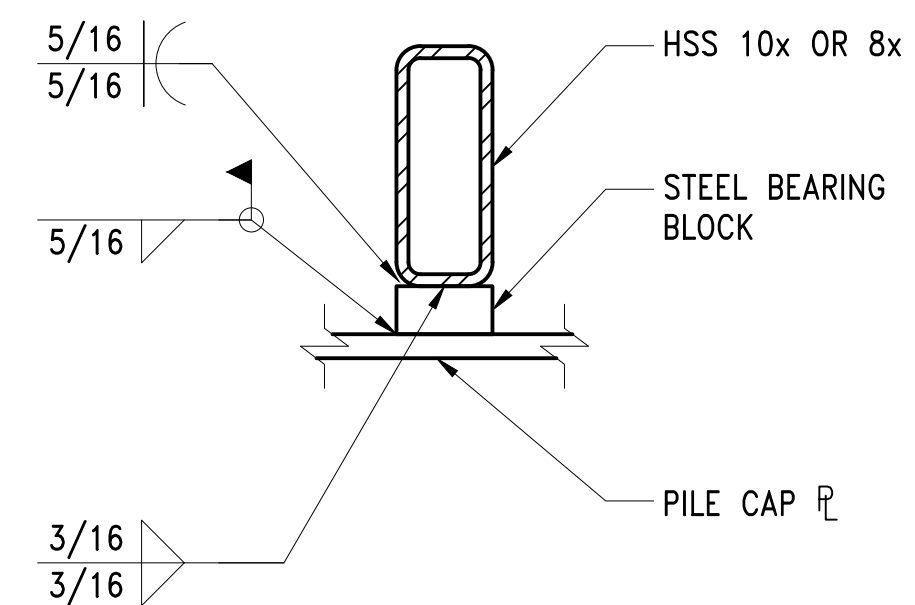
DETAIL 2
PILE CAP PLAN: P-09NW, P-10S
SCALE: 1 1/2"=1'-0" S2.2



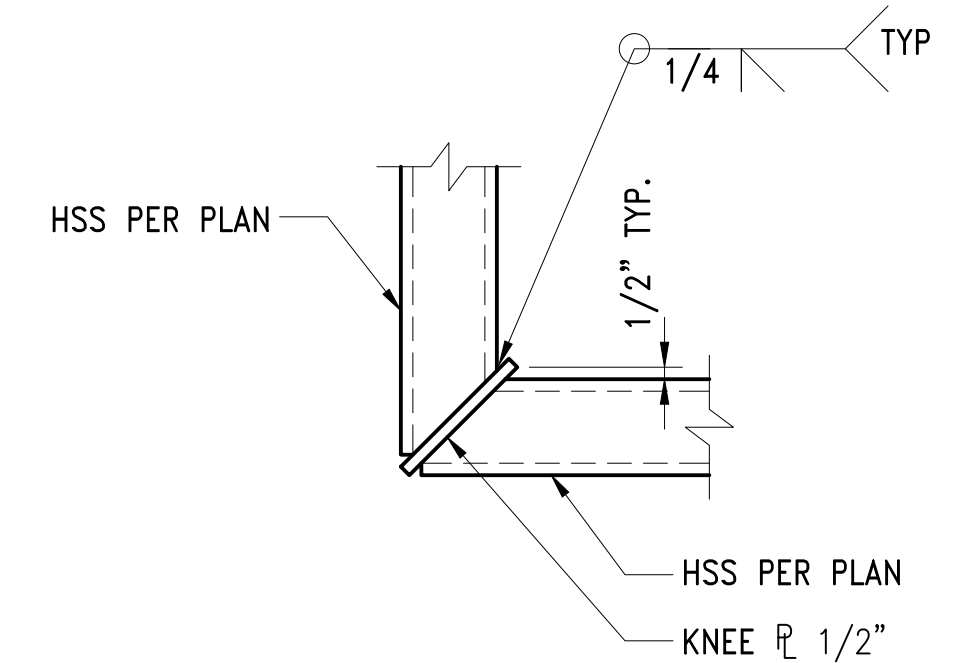
DETAIL 3
PILE CAP PLAN: P-09NE
SCALE: 1 1/2"=1'-0" S2.2



DETAIL 4
PILE CAP PLAN: P-09S
SCALE: 1 1/2"=1'-0" S2.2



DETAIL 7
TYPICAL BEARING BLOCK AT PILE CAP
SCALE: 1 1/2"=1'-0" S2.2



DETAIL 8
TYPICAL KNEE JOINT
SCALE: 1 1/2"=1'-0" S2.2

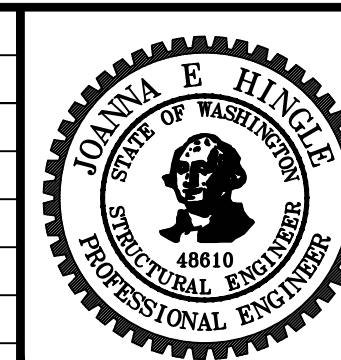
- NOTES:
1. TOP OF KNEE FLUSH WITH TOP OF HIGHER FLANGE. BOTTOM OF KNEE FLUSH WITH BOTTOM OF LOWER FLANGE.
 2. MITER HSS TOP AND BOTTOM FLANGE TO ALLOW FOR BEVEL WELD

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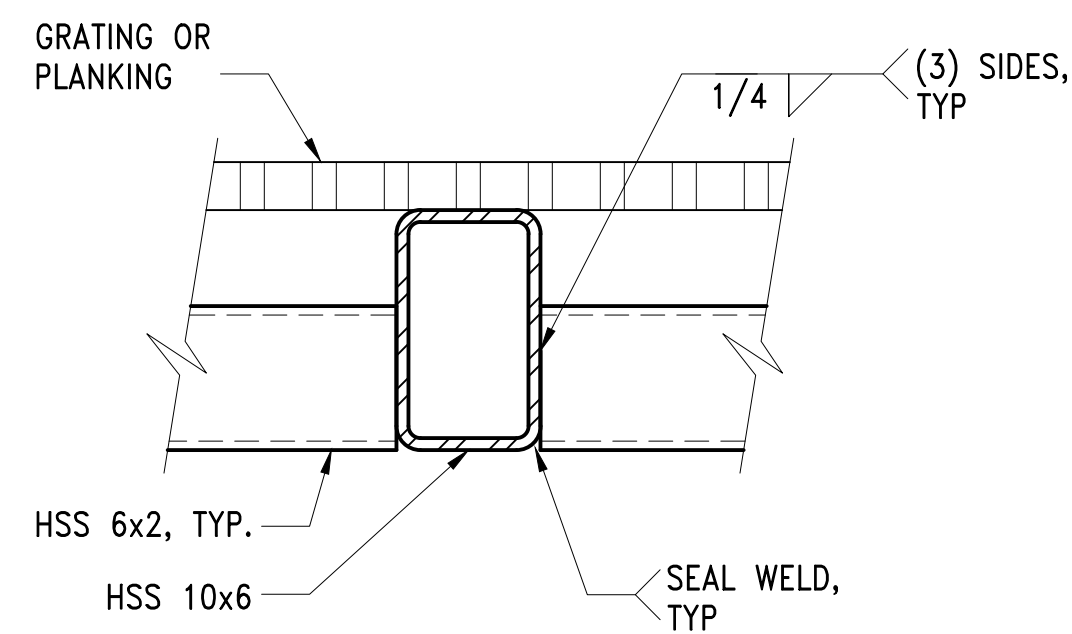


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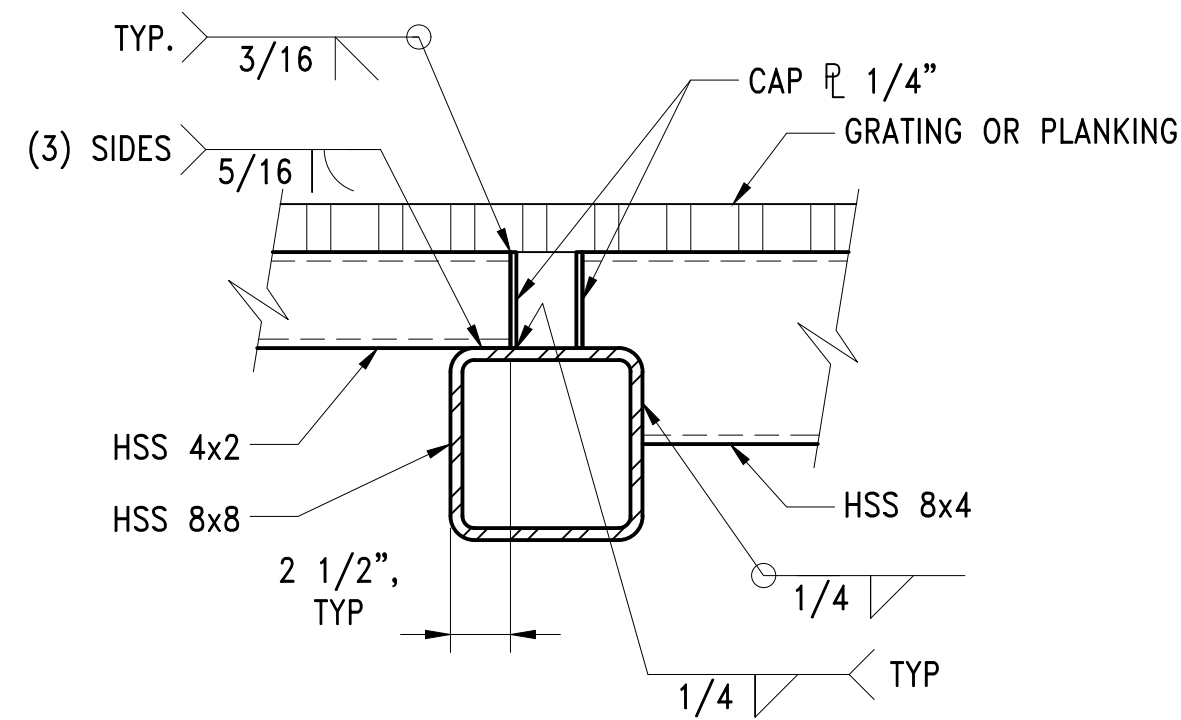
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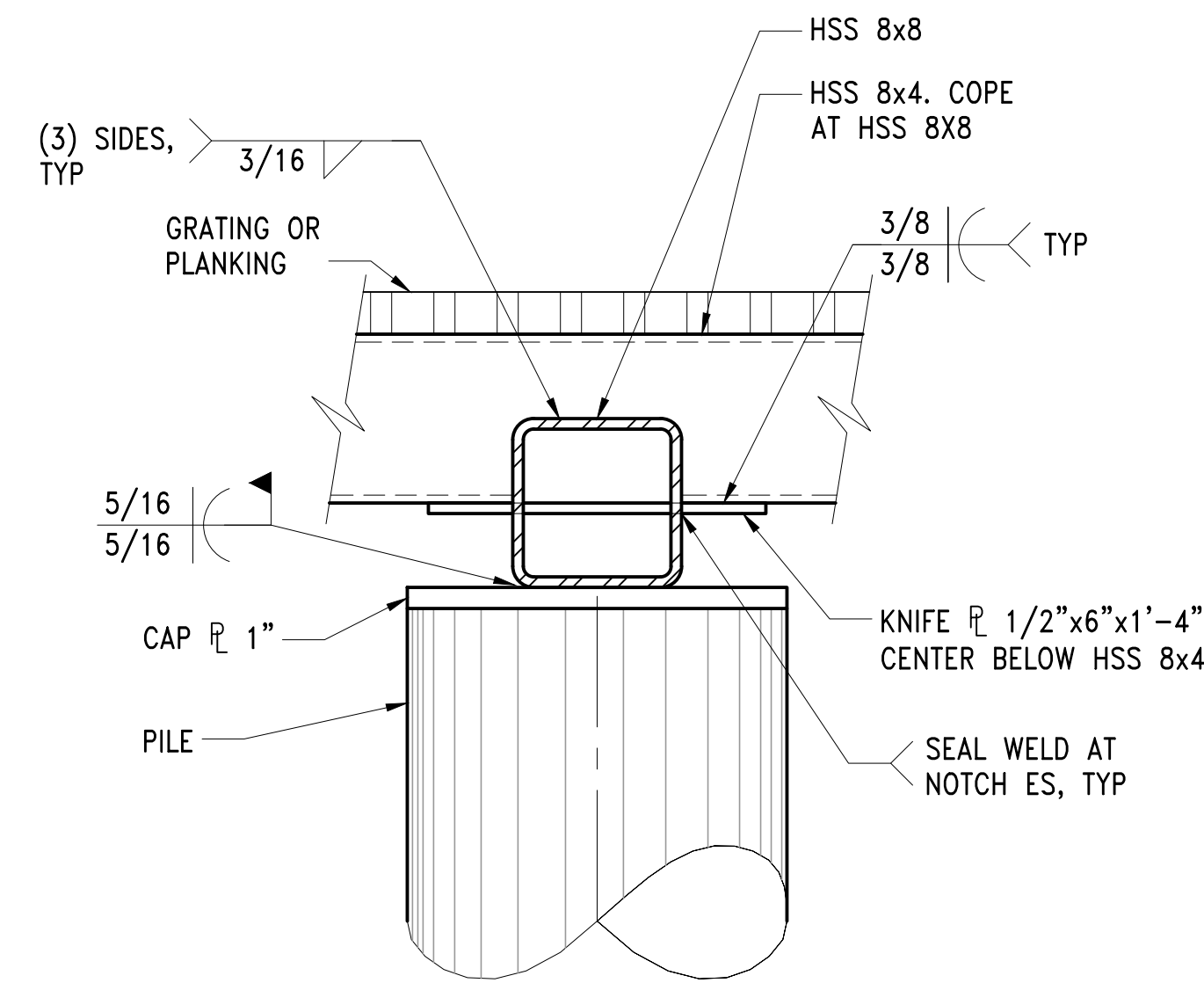
SECTION 1
BEAM TO BEAM CONNECTION
SCALE: 1 1/2" = 1'-0"

1
S2.2



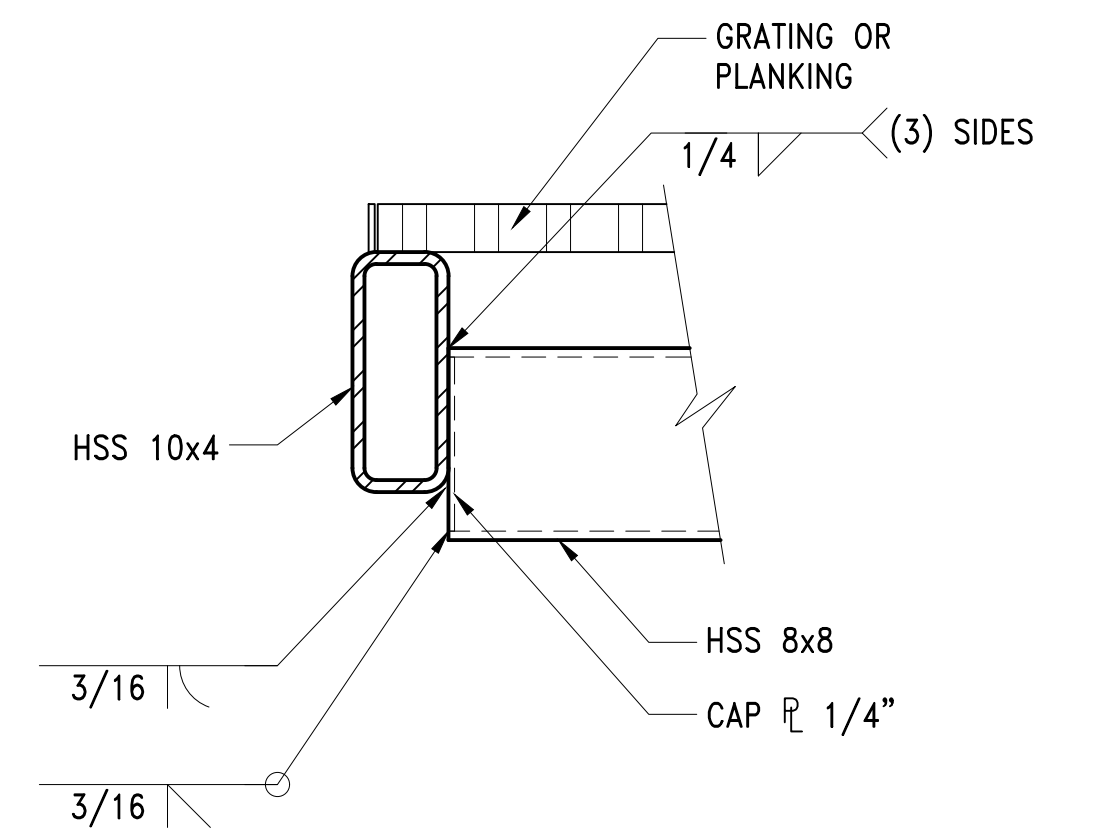
SECTION 2
BEAM TO BEAM CONNECTION
SCALE: 1 1/2" = 1'-0"

2
S2.7



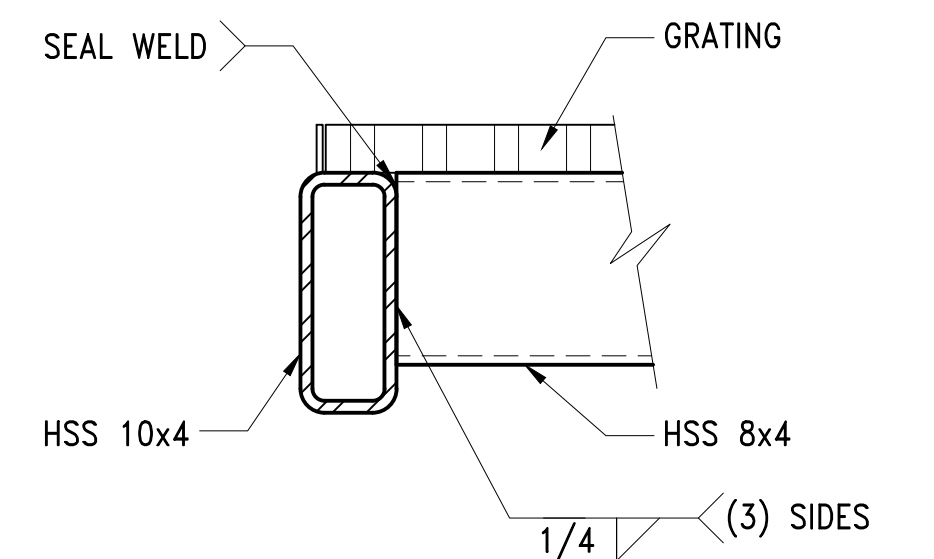
SECTION 3
BEAM CONNECTION AT TOP OF PILE P-10N
SCALE: 1 1/2" = 1'-0"

3
S2.2



SECTION 4
EDGE BEAM CONNECTION
SCALE: 1 1/2" = 1'-0"

4
S2.2



SECTION 8
EDGE BEAM CONNECTION
SCALE: 1 1/2" = 1'-0"

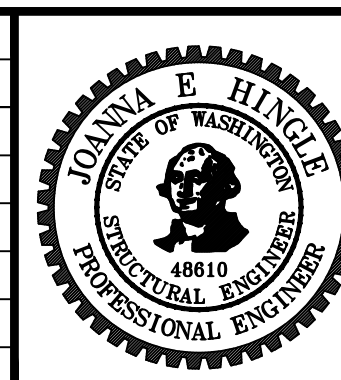
8
S2.2

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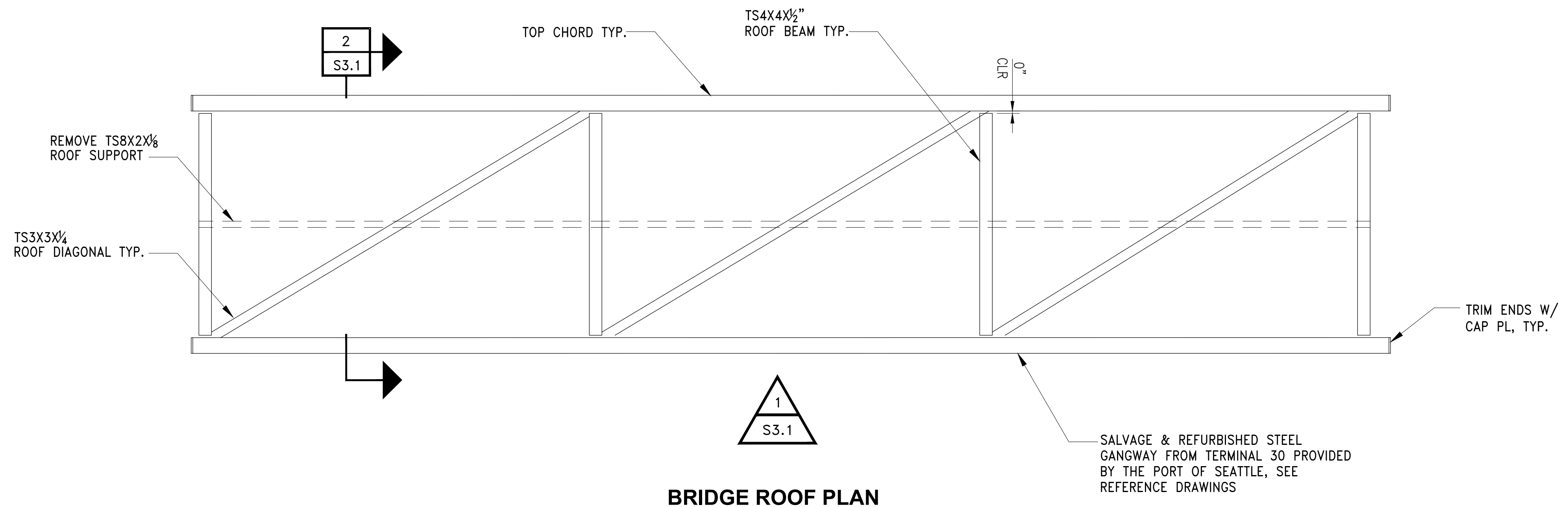


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TAESAN HOSE
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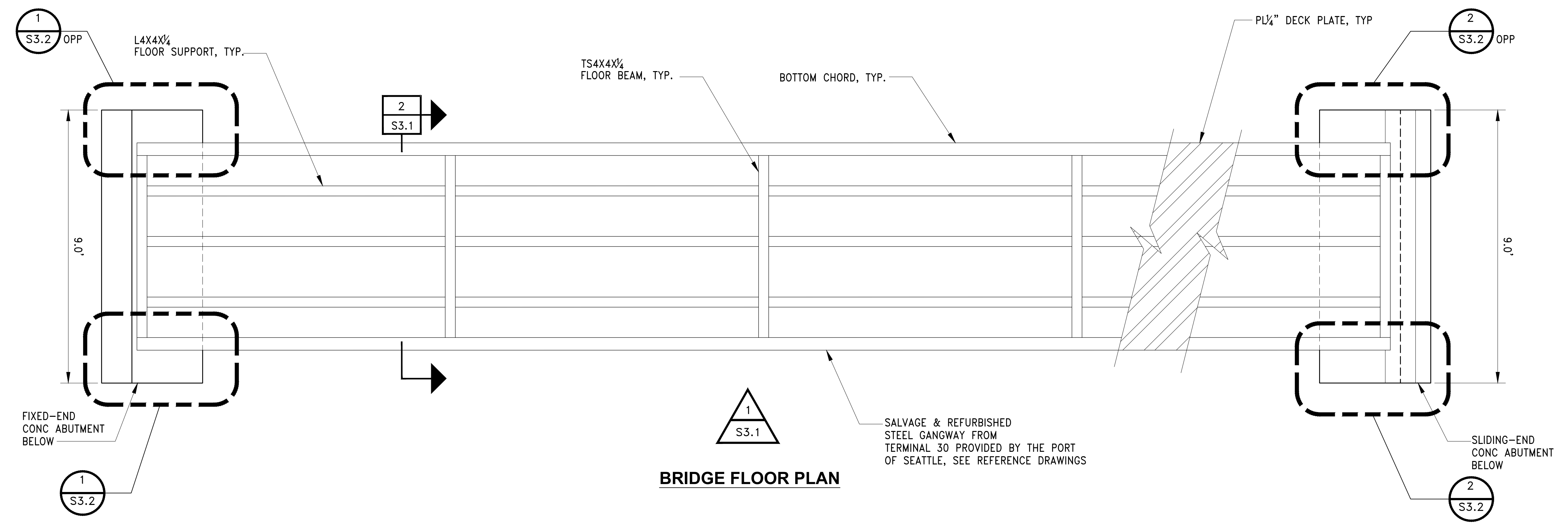
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SHEET TITLE: PIER DETAILS - SHEET 6

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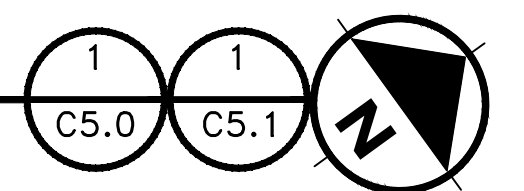


BRIDGE ROOF PLAN



BRIDGE FLOOR PLAN

BRIDGE PLAN
SCALE: 1/2"=1'-0"

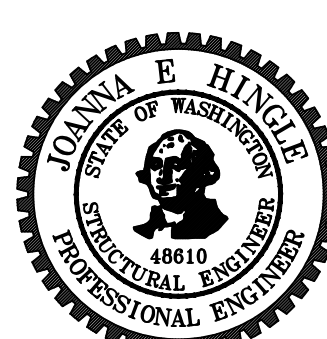


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DRAWN BY:
SCALE:
DATE:
CHECKED BY:
CHECKED/APPROVED BY:

REVISIONS							
NO.	DATE	BY	DESCRIPTION	APP'D	NO.	DATE	BY
1	5/11/17		ISSUED FOR BID				

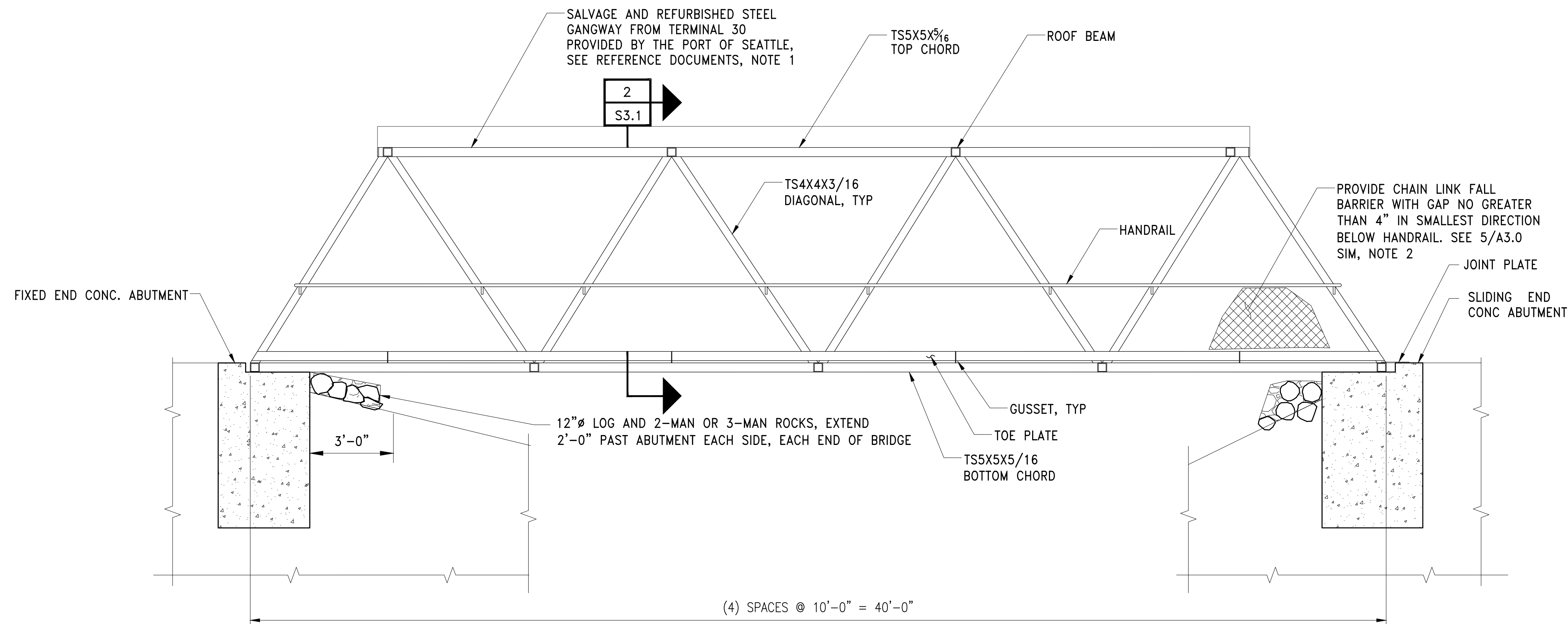


PROJECT MANAGER:
TICSON MACH
PROJECT ENGINEER:
JOANNA HINGLE
DESIGN ENGINEER:
JOANNA HINGLE
DRAFTER:
JORGE GAVIDIA
SCALE:
AS SHOWN
DATE:
5/11/2017
CHECKED/APPROVED BY:

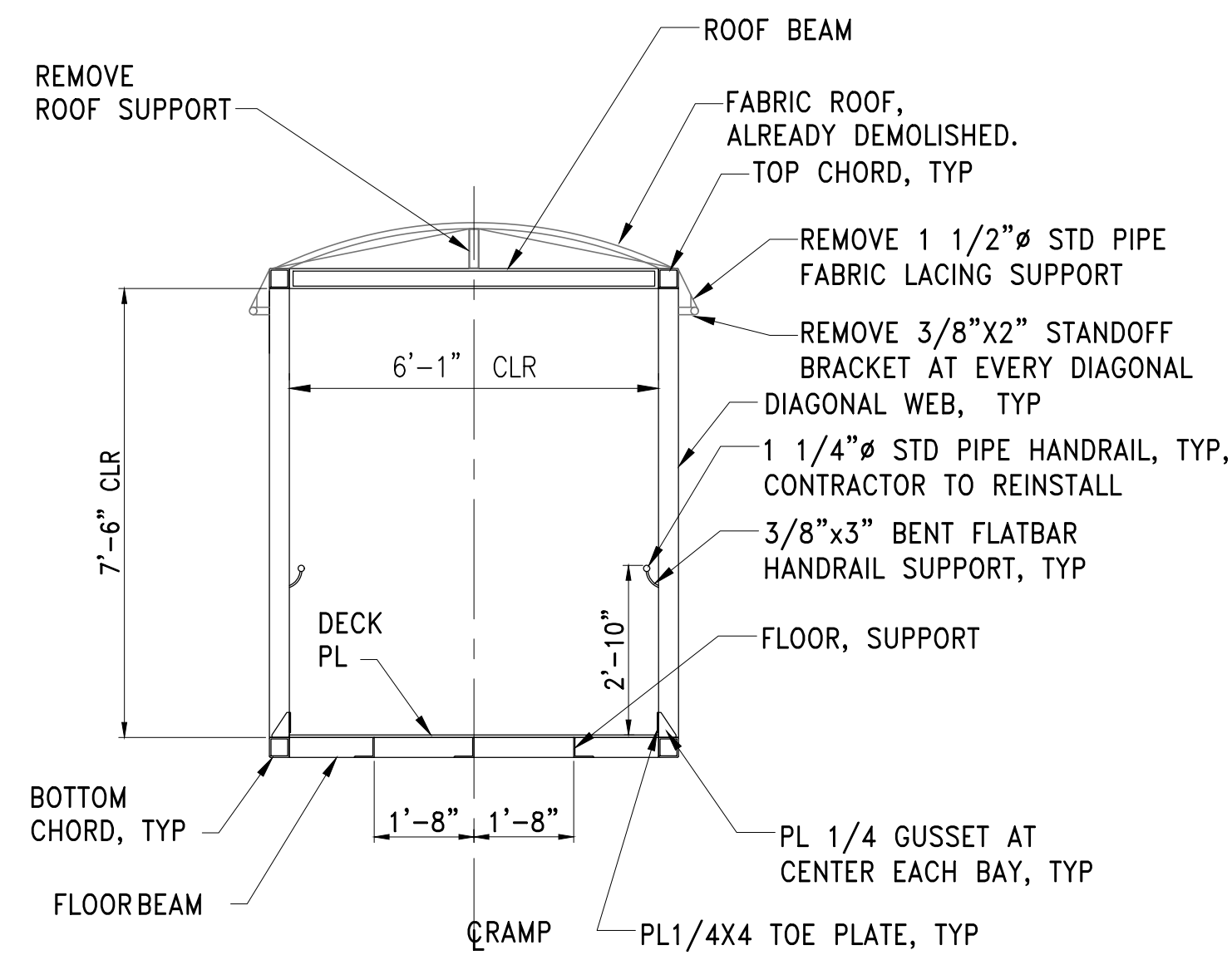
Port of Seattle MARITIME DIVISION
PROJECT: **SITE 23 & 25 RESTORATION**
SHEET TITLE: **BRIDGE PLAN**

WORK PROJECT NO.
105563
CONSULTANT'S NO.
PORT OF SEATTLE NO.
117-1201 **S3.0**

I:\117\2012\117 Restoration - 103944\Design-Structural\11712015003_1.dwg, 1/19/2018 11:06:13 AM, kcl



ELEVATION
SCALE: 3/8" = 1'-0"
1
S3.0



SECTION
BRIDGE TYPICAL SECTION
SCALE: 3/8" = 1'-0"
2 S3.0, 2 S3.1

BRIDGE NOTES:

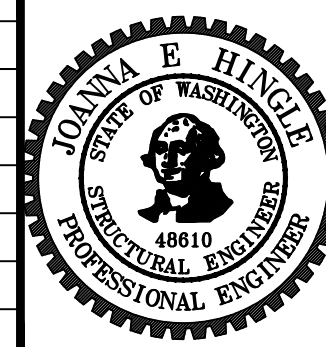
- BRIDGE TO BE PROVIDED BY THE PORT OF SEATTLE. CONTRACTOR TO TRANSPORT, REFURBISH AND MODIFY PER DRAWINGS AND SPECIFICATION 13 90 01.
- FALL BARRIER SHALL NOT PENETRATE TRUSS MEMBERS. WELD OR CLIP ALL CONNECTIONS.

NOT FOR CONSTRUCTION

CALL 2 DAYS BEFORE YOU DIG
1-800-424-5555

PROJECT ENGR./ARCH:
DESIGNER:
DRAWN BY:
SCALE:
DATE:
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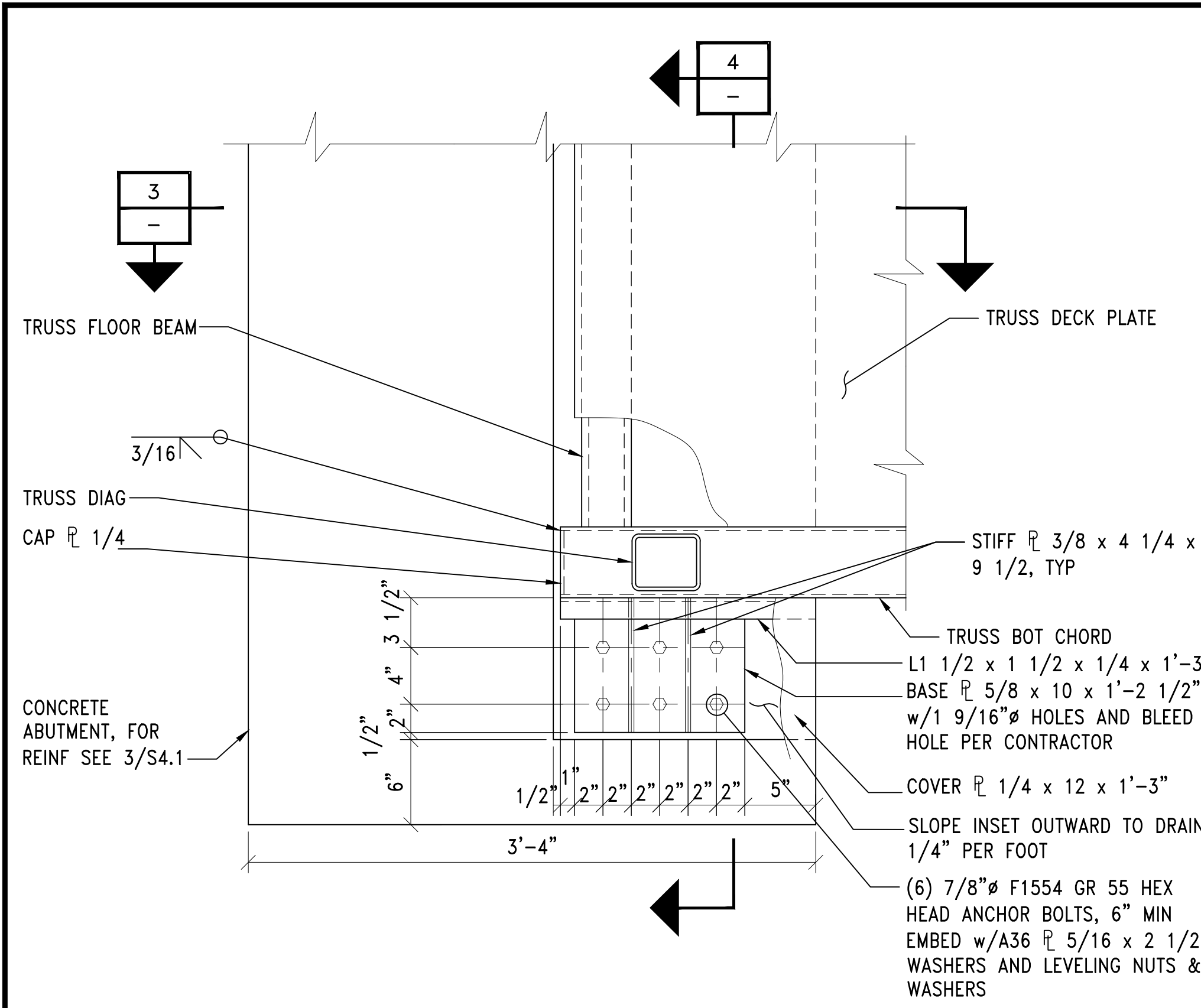
REVISIONS							
NO.	DATE	BY	DESCRIPTION	APP'D	NO.	DATE	BY
1	5/11/17		ISSUED FOR BID				



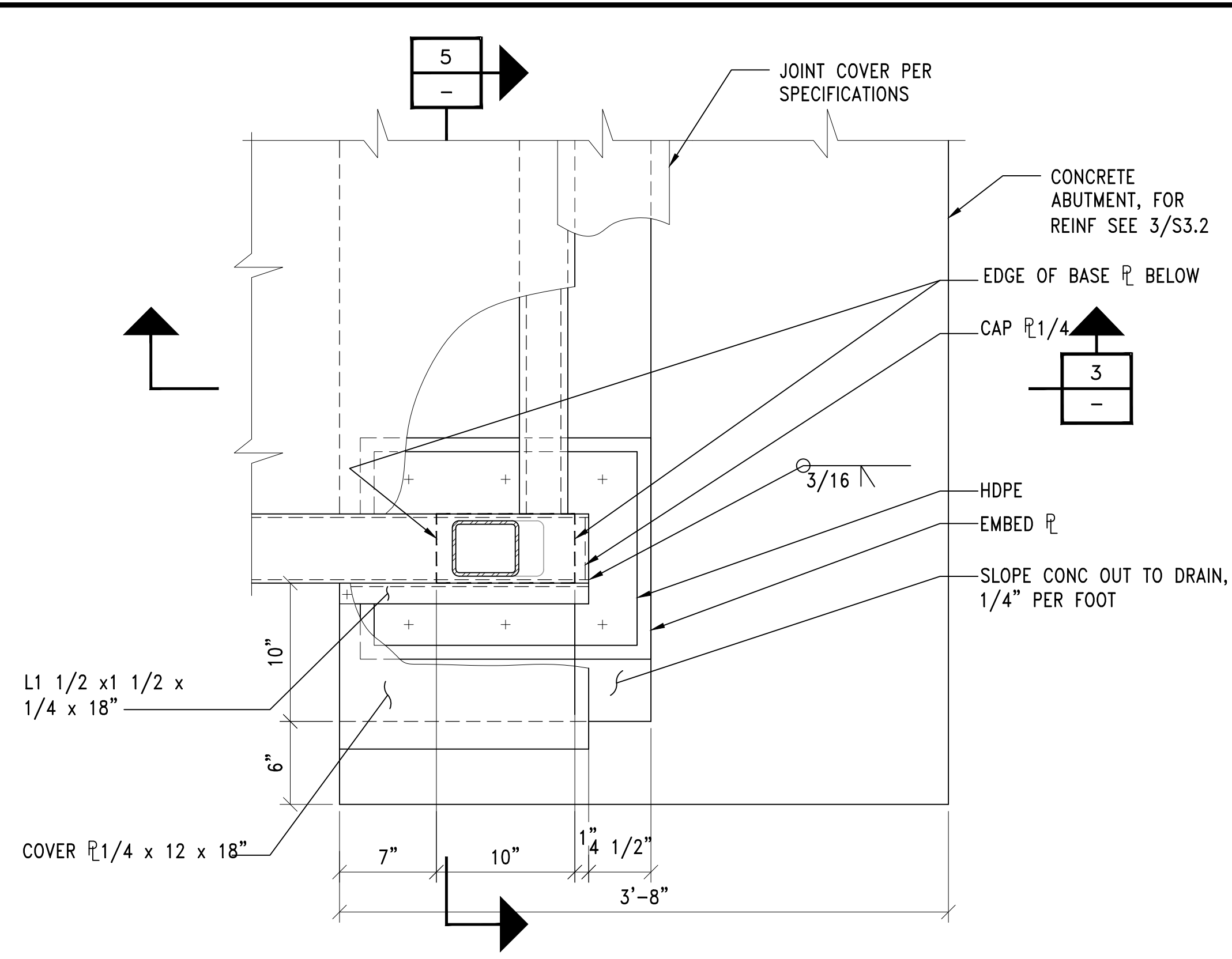
PROJECT MANAGER: TICSON MACH
PROJECT ENGINEER: JOANNA HINGLE
DESIGN ENGINEER: JOANNA HINGLE
DRAFTER: JORGE GAVIDIA
SCALE: AS SHOWN
DATE: 5/11/2017
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Port of Seattle MARITIME DIVISION
PROJECT: SITE 23 & 25 RESTORATION
SHEET TITLE: BRIDGE ELEVATION

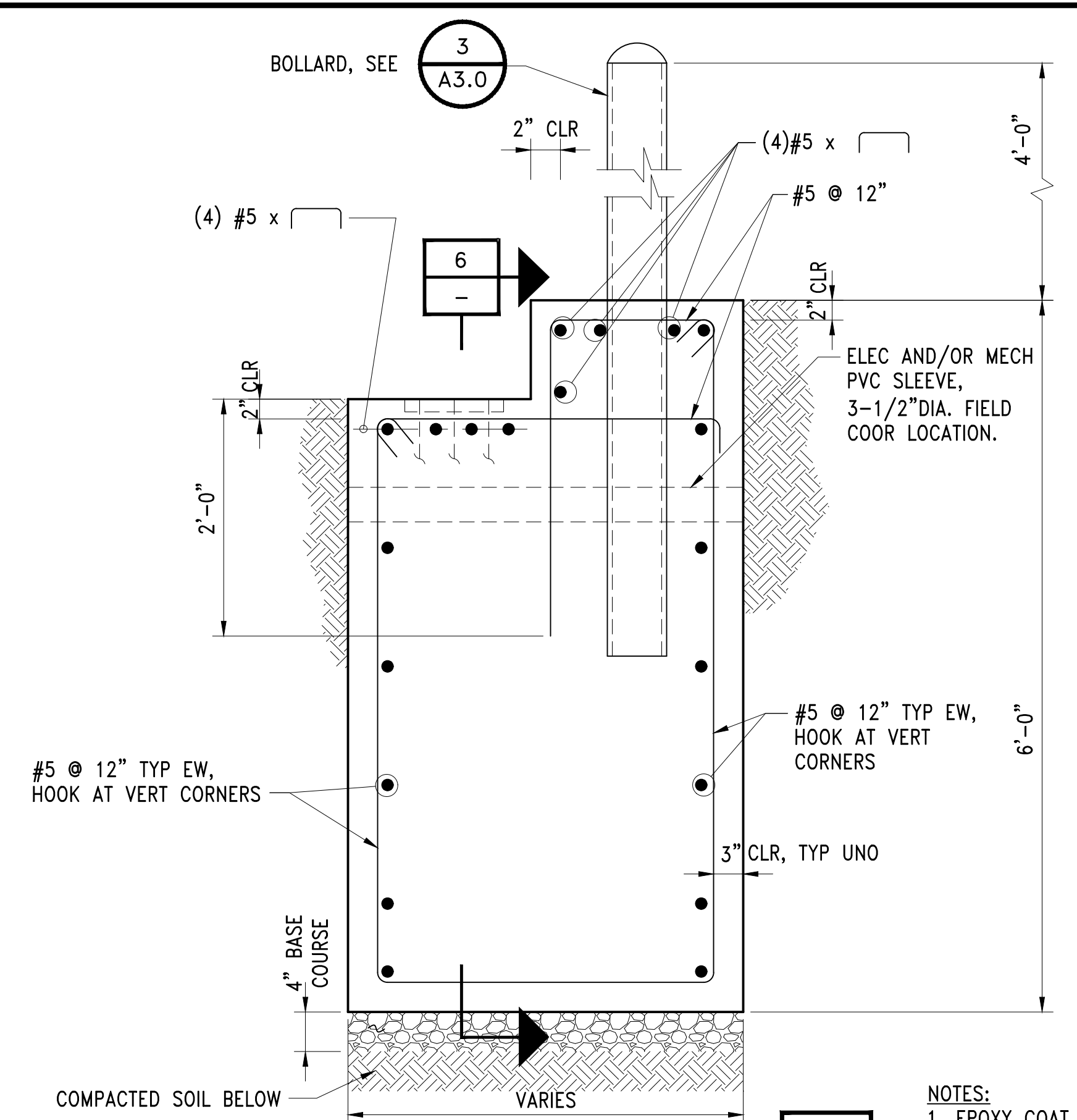
WORK PROJECT NO. 105563
CONSULTANT'S NO.
PORT OF SEATTLE NO. 117-1201
S3.1



DETAIL
WEST ABUTMENT CONNECTION
SCALE: 1 1/2" = 1'-0"
1
S3.0

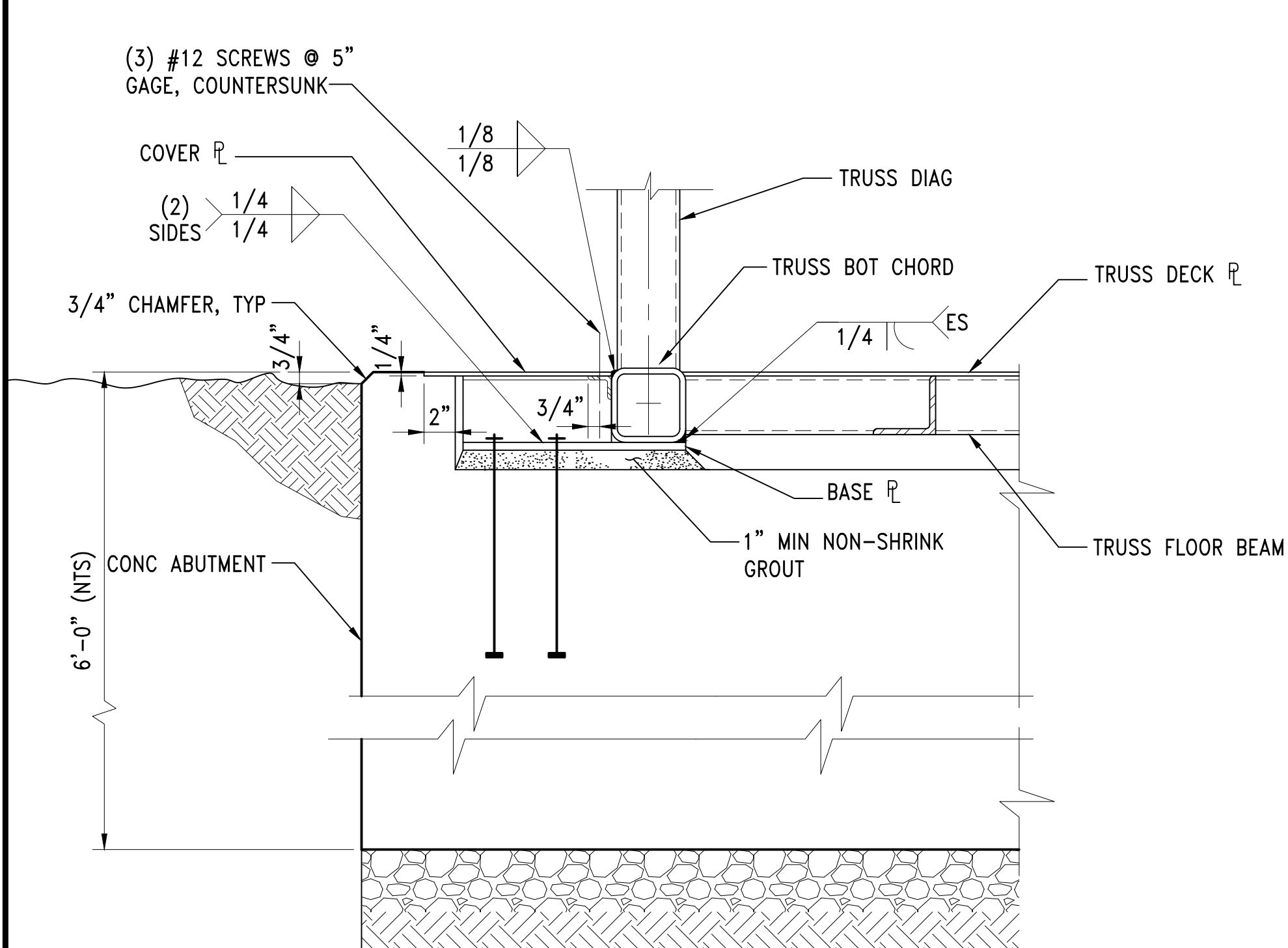


DETAIL
EAST ABUTMENT CONNECTION
SCALE: 1 1/2" = 1'-0"
2
S3.0

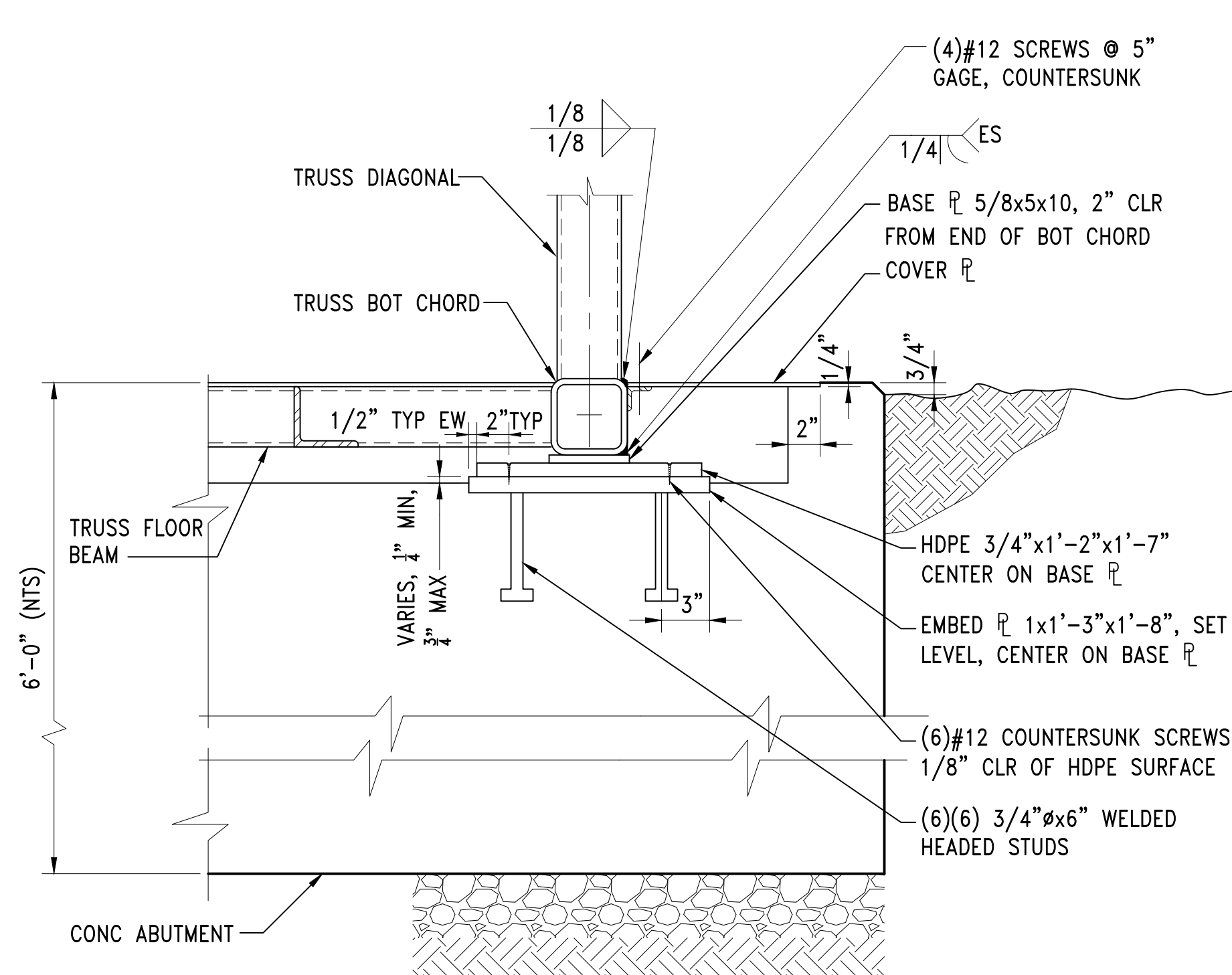


SECTION
ABUTMENT REINF
SCALE: 1" = 1'-0"
3
-

NOTES:
1. EPOXY COAT ALL BARS.

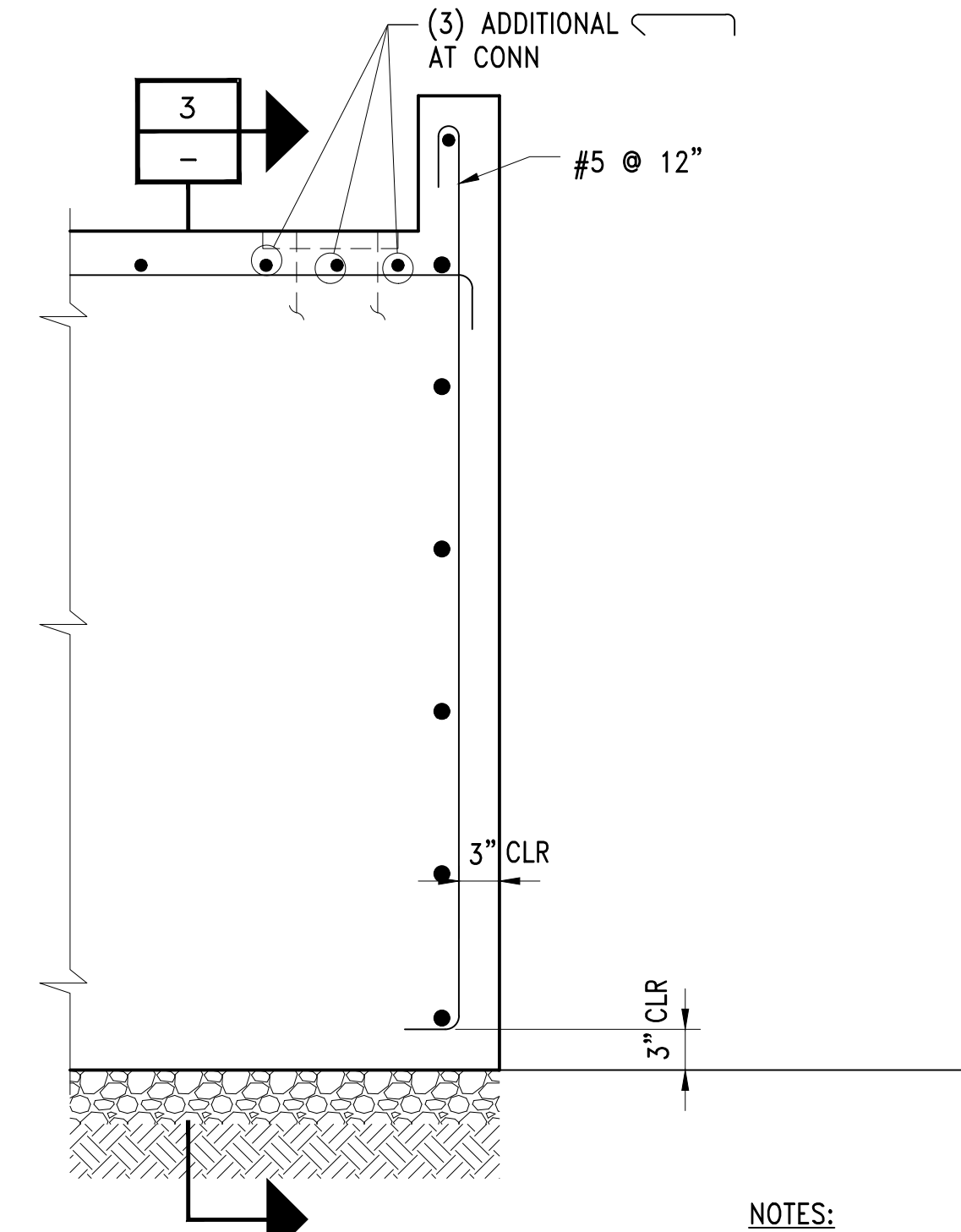


SECTION
WEST ABUTMENT CONNECTION
SCALE: 1 1/2" = 1'-0"
4
-



SECTION
EAST ABUTMENT CONNECTION
SCALE: 1 1/2" = 1'-0"
5
-

NOT FOR CONSTRUCTION



SECTION
ABUTMENT REINF
SCALE: 1" = 1'-0"
6
-

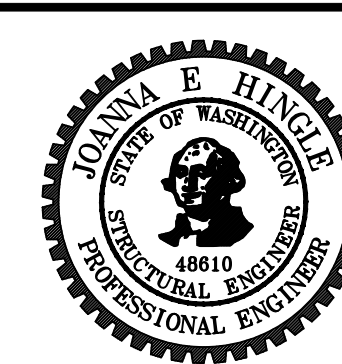
NOTES:
1. EPOXY COAT ALL BARS.

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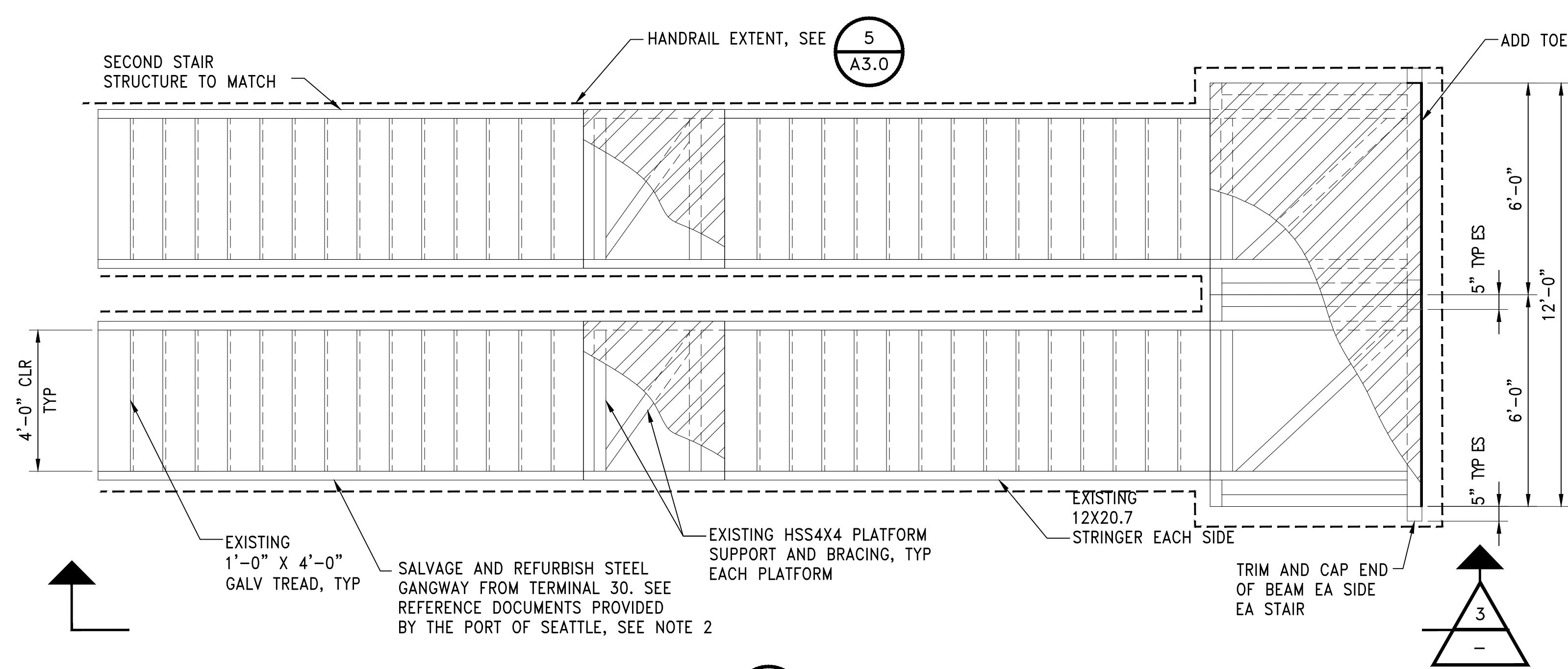
PROJECT MANAGER:
TICSON MACH
PROJECT ENGINEER:
JOANNA HINGLE
DESIGN ENGINEER:
JOANNA HINGLE
DRAFTER:
KEN LANE
SCALE:
AS SHOWN
DATE:
5/11/2017
CHECKED/APPROVED BY:

Port of Seattle MARITIME DIVISION
PROJECT: SITE 23 & 25 RESTORATION
SHEET TITLE: BRIDGE DETAILS

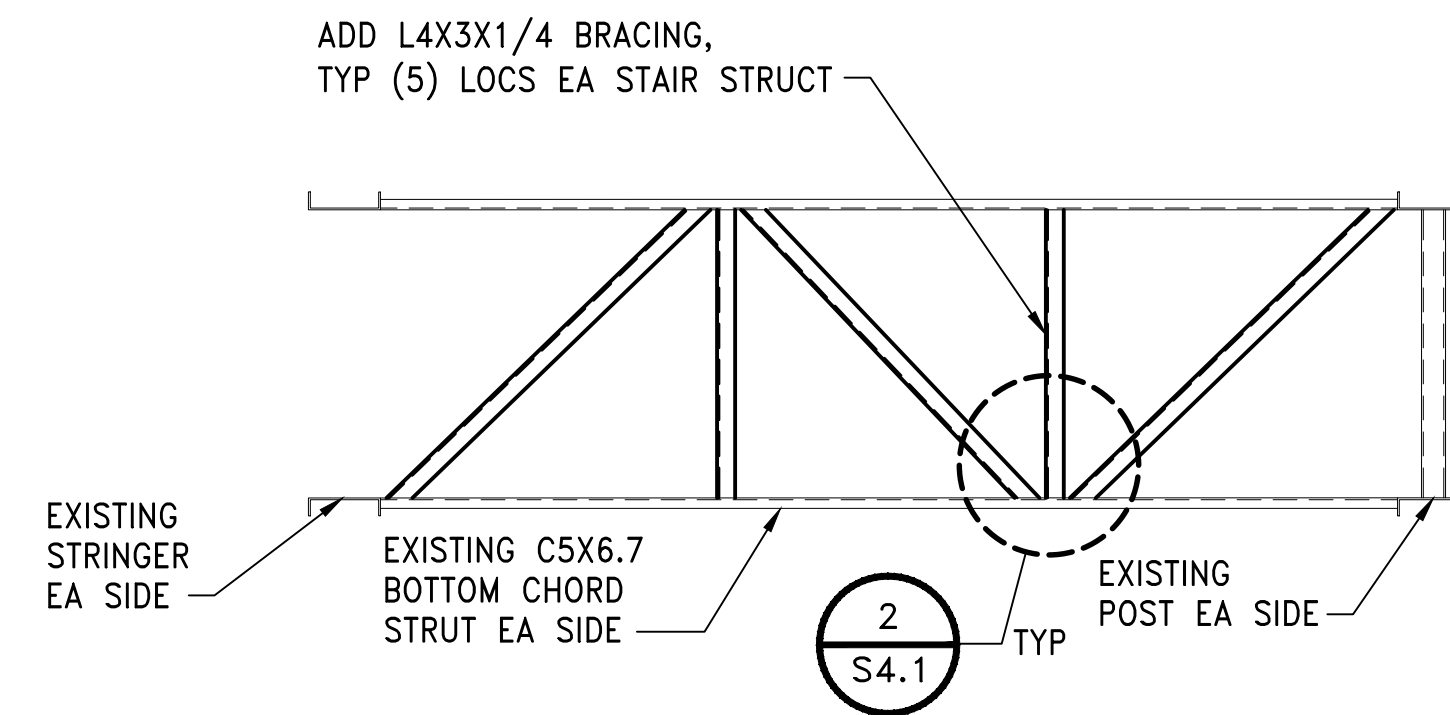
WORK PROJECT NO.
105563
CONSULTANT'S NO.
PORT OF SEATTLE NO.
117-1201 **S3.2**

OBSERVATION PLATFORM NOTES:

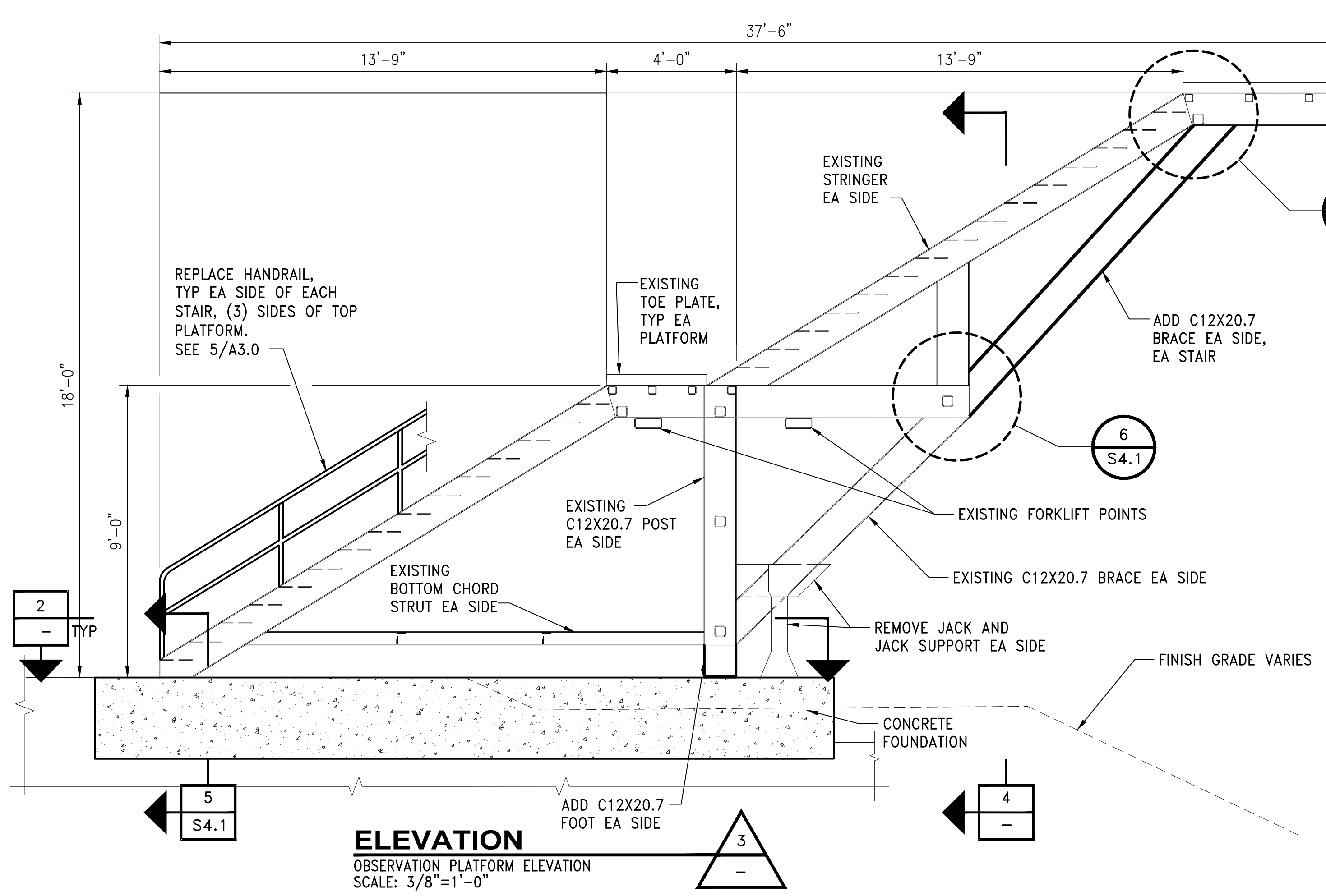
- OBSERVATION PLATFORM FOUNDATION TO BE PLACED ON SOIL COMPACTED TO 95% DENSITY FOR 3 FT. DEPTH.
- OBSERVATION PLATFORM TO BE PROVIDED BY THE PORT OF SEATTLE. CONTRACTOR TO TRANSPORT, REFURBISH, AND MODIFY PER DRAWINGS AND SPECIFICATION 13 90 01. CONTRACTOR TO VERIFY DIMENSIONS.



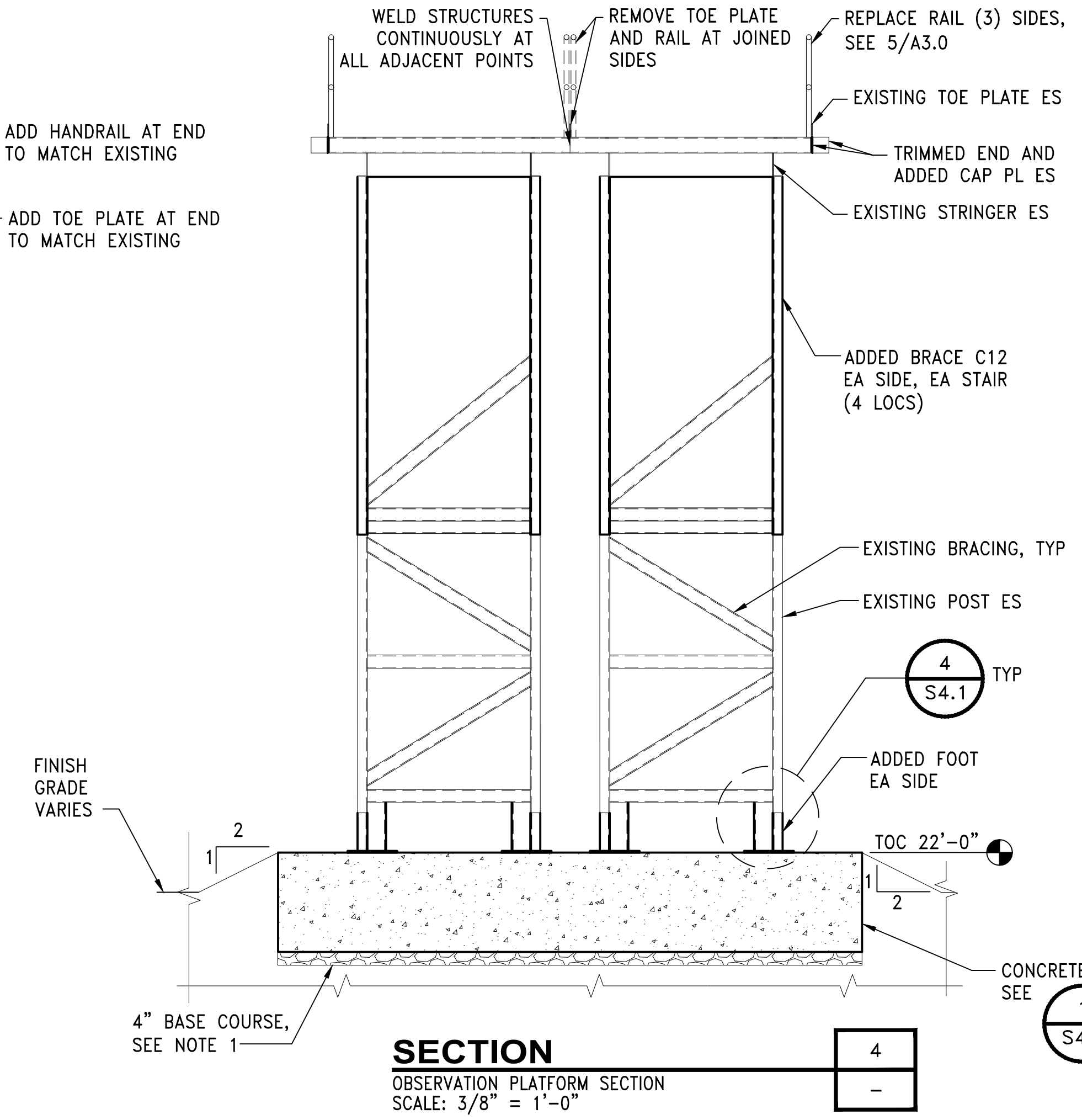
PLAN
OBSERVATION PLATFORM PLAN
SCALE: 3/8" = 1'-0"
1
C5.1



SECTION
OBSERVATION PLATFORM ELEVATION
SCALE: 3/8" = 1'-0"
2
-



ELEVATION
OBSERVATION PLATFORM ELEVATION
SCALE: 3/8" = 1'-0"
3
-



SECTION
OBSERVATION PLATFORM SECTION
SCALE: 3/8" = 1'-0"
4
-

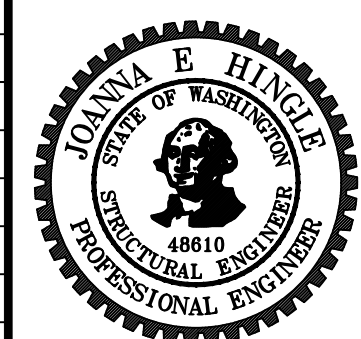
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DESIGNER:
DRAWN BY:
SCALE:
DATE:
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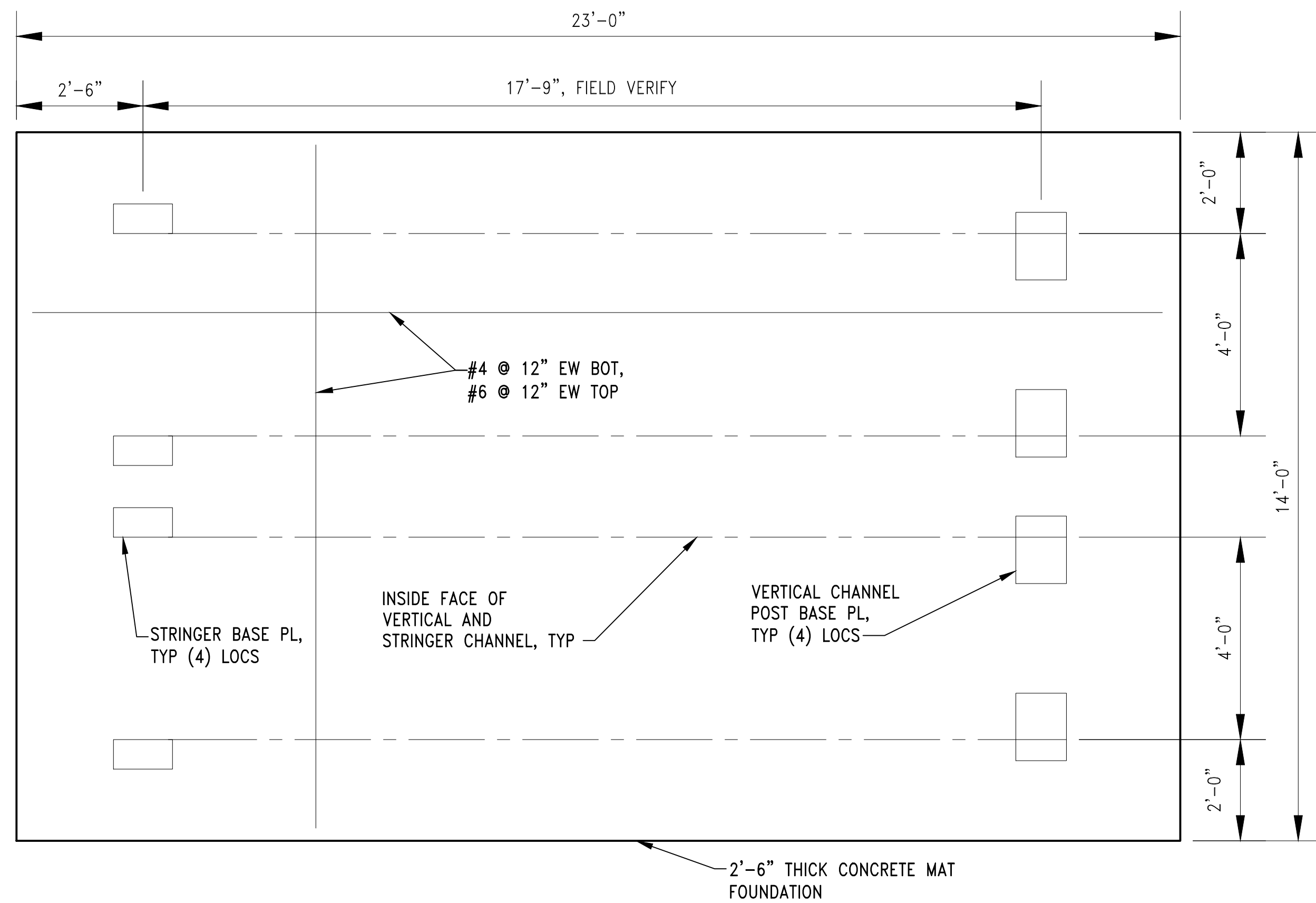
REVISIONS					
NO.	DATE	BY	DESCRIPTION	APP'D	NO.
5	5/11/17		ISSUED FOR BID		



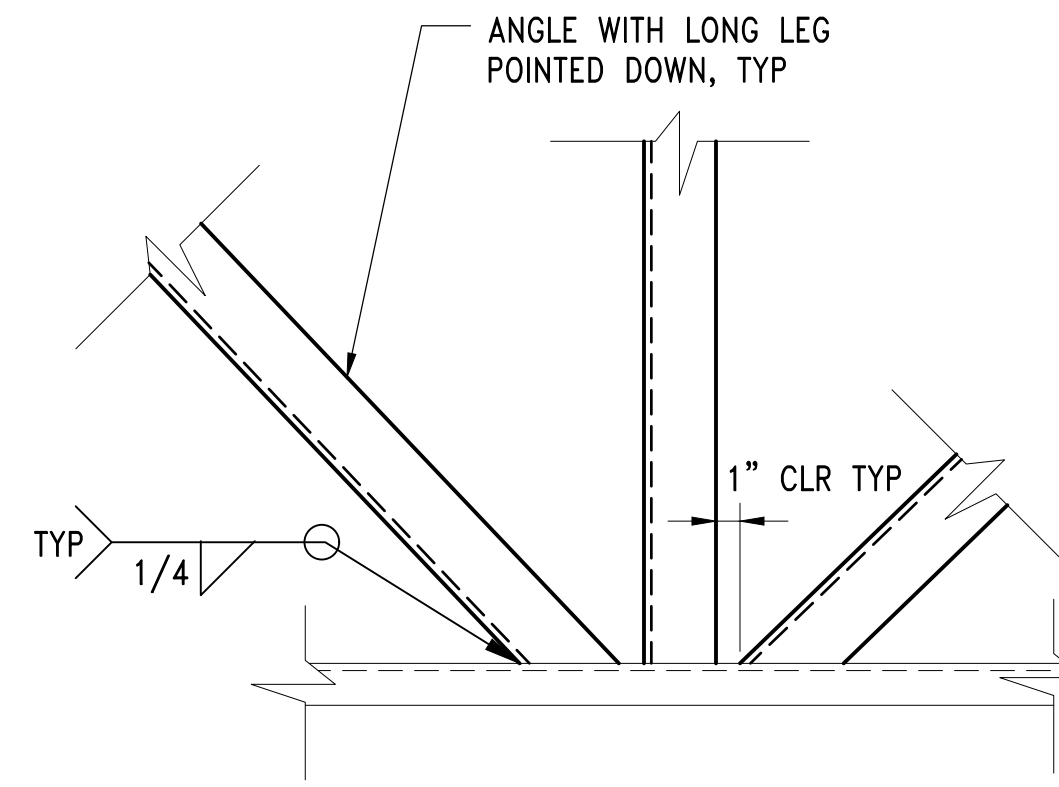
PROJECT MANAGER:
TICSON MACH
PROJECT ENGINEER:
JOANNA HINGLE
DESIGN ENGINEER:
JOANNA HINGLE
DRAFTER:
JORGE GAVIDIA
SCALE:
AS SHOWN
DATE:
5/11/2017
CHECKED/APPROVED BY:

Port of Seattle MARITIME DIVISION
PROJECT: SITE 23 & 25 RESTORATION
SHEET TITLE: OBSERVATION PLATFORM PLAN AND ELEVATION

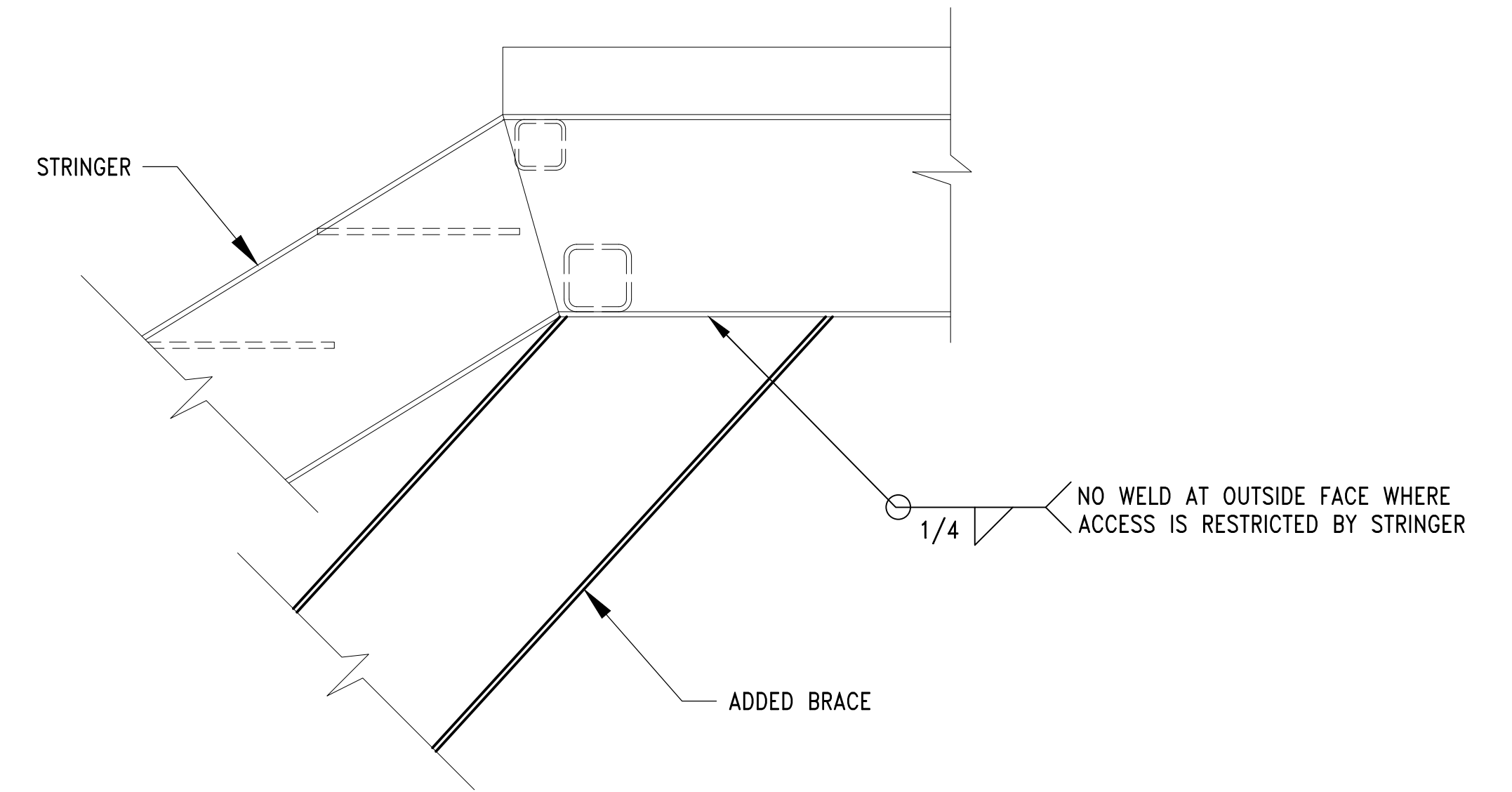
WORK PROJECT NO.
105563
CONSULTANT'S NO.
PORT OF SEATTLE NO.
117-1201
S4.0



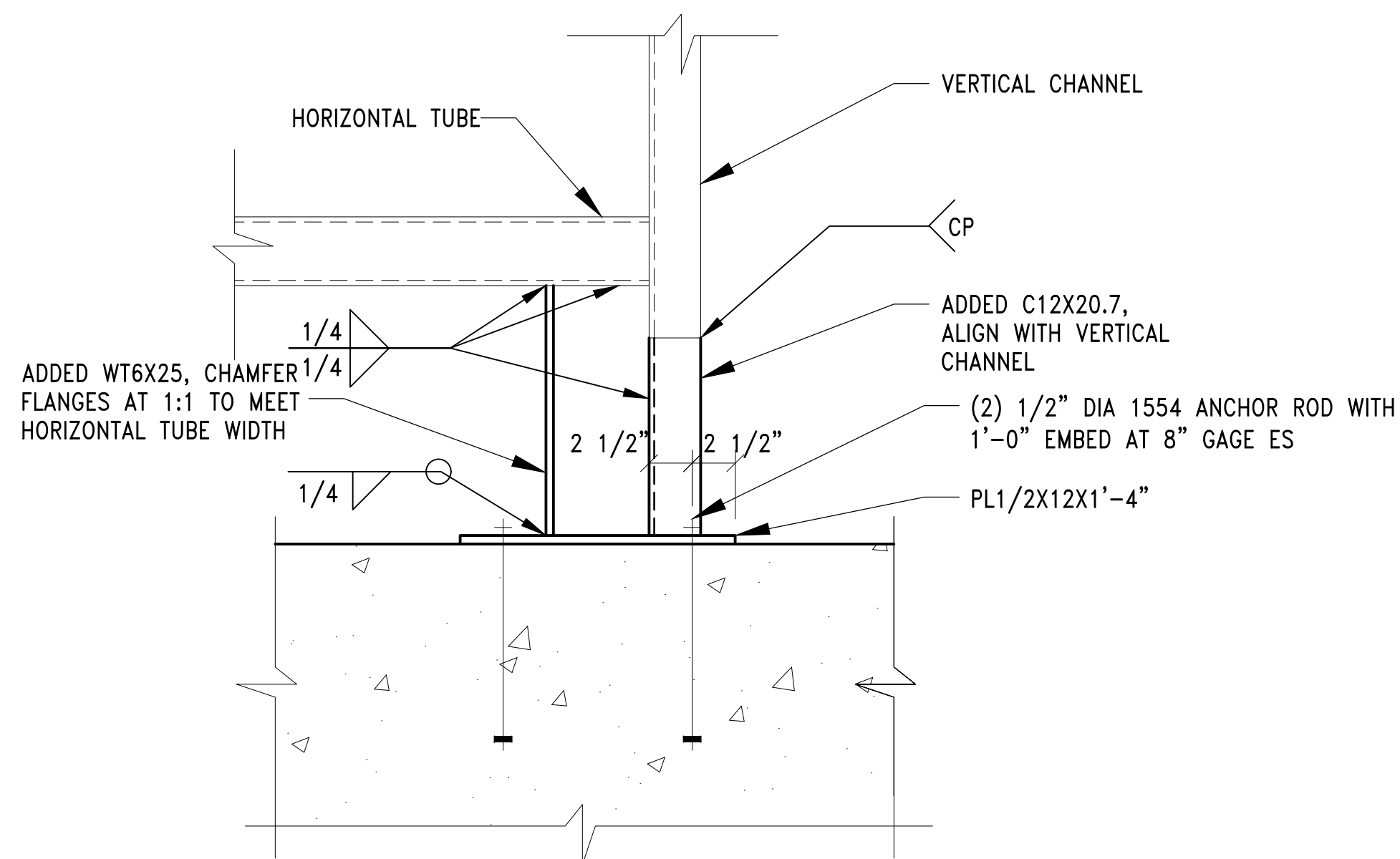
DETAIL 1
OBSERVATION PLATFORM FOUNDATION
SCALE: 1/2"=1'-0"



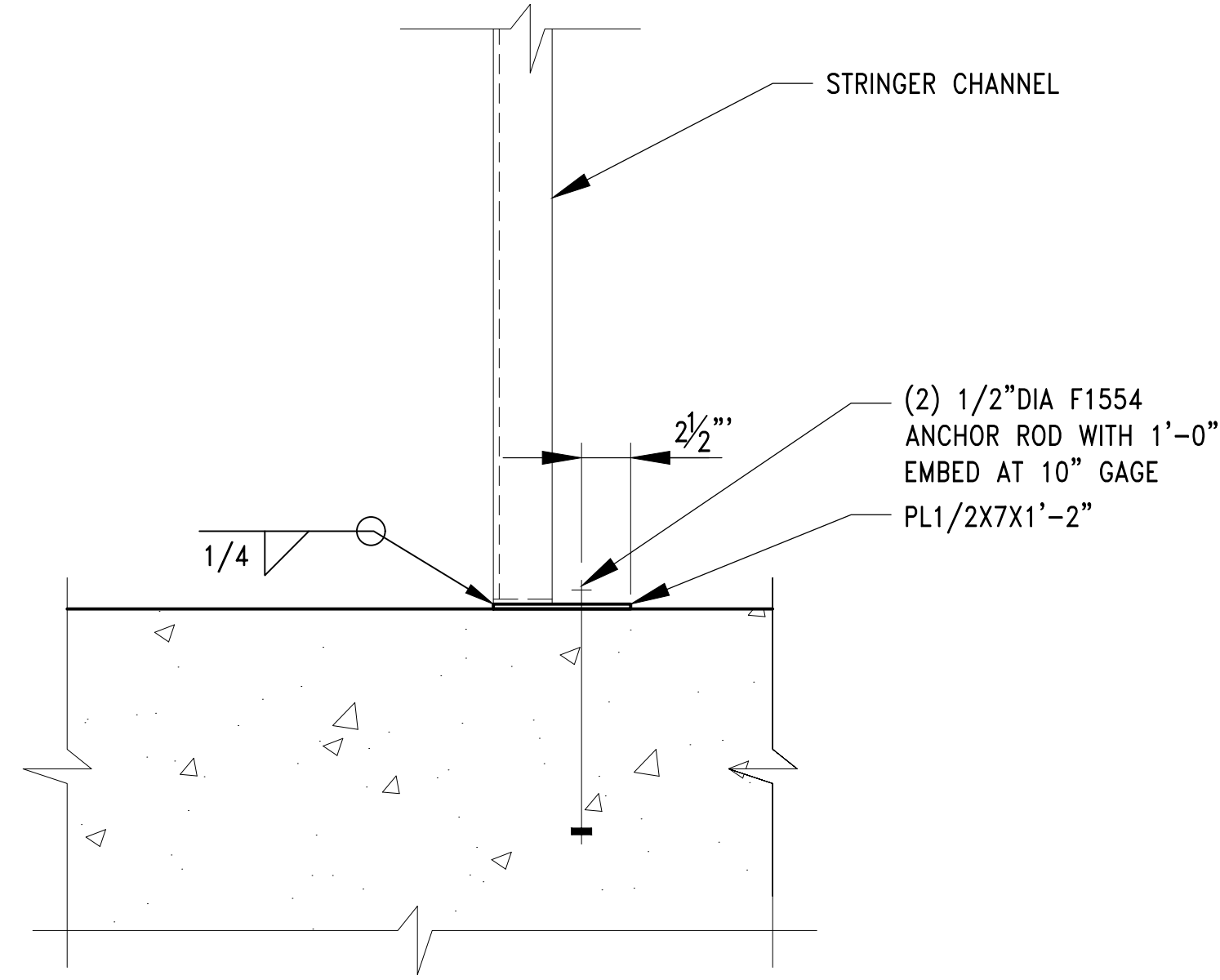
DETAIL 2
BOTTOM CHORD BRACING
SCALE: 1 1/2"=1'-0"



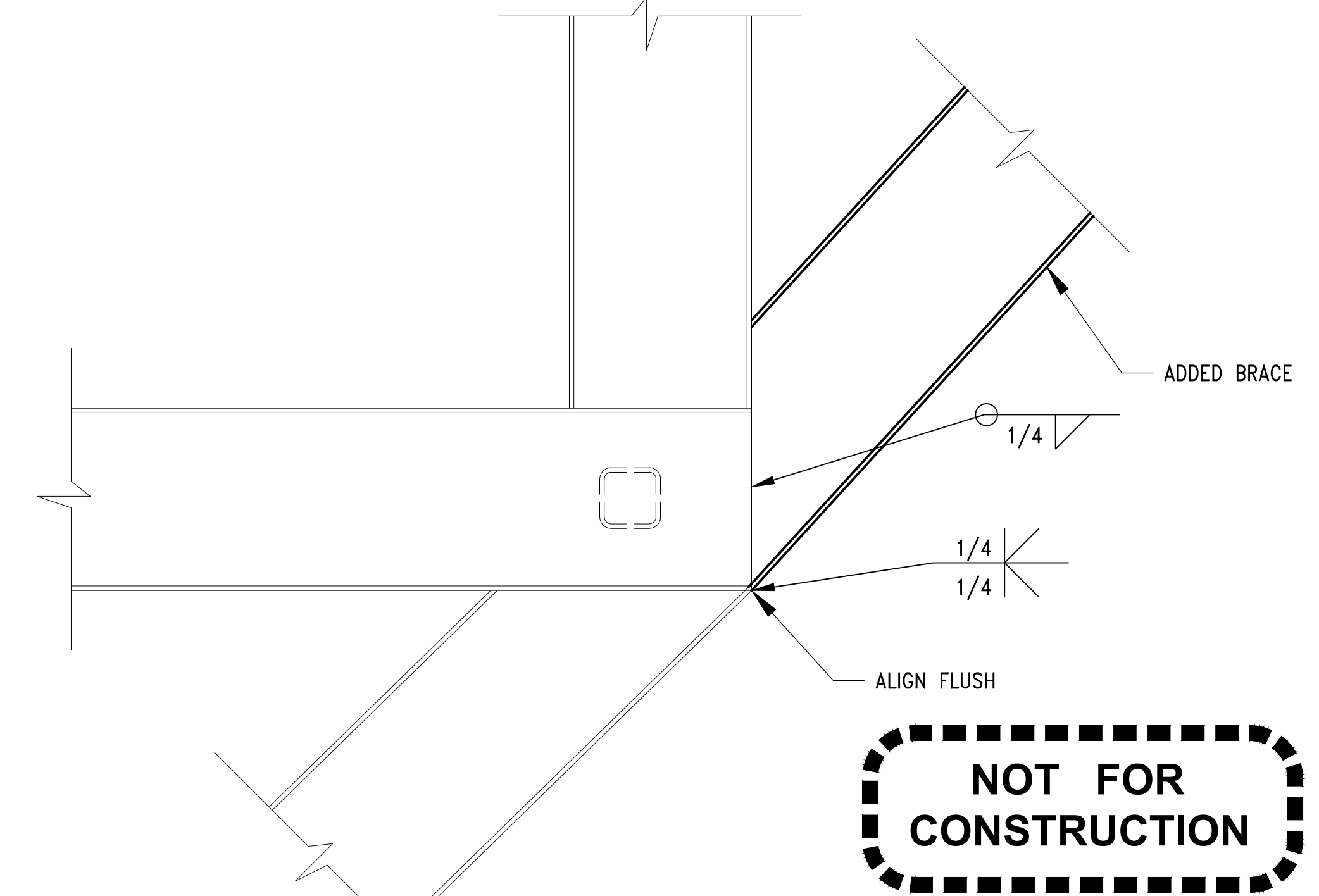
DETAIL 3
ADDED BRACE TOP CONNECTION
SCALE: 1 1/2"=1'-0"



DETAIL 4
VERTICAL POST BASE
SCALE: 1 1/2"=1'-0"



SECTION 5
STRINGER BASE
SCALE: 1 1/2"=1'-0"



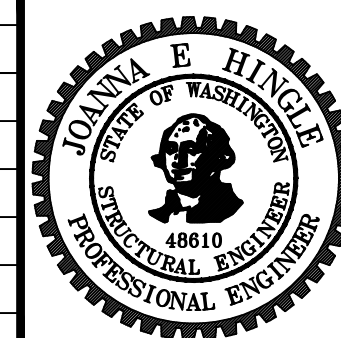
DETAIL 6
ADDED BRACE BOTTOM CONNECTION
SCALE: 1 1/2"=1'-0"

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REVISIONS							
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1	5/11/17		ISSUED FOR BID				

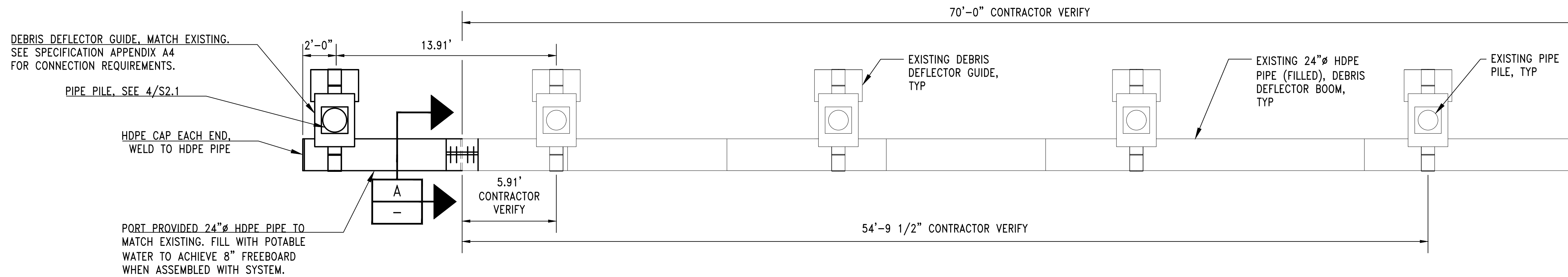


PROJECT MANAGER:
TICSON MACH
PROJECT ENGINEER:
JOANNA HINGLE
DESIGN ENGINEER:
JOANNA HINGLE
DRAFTER:
KEN LANE
SCALE:
AS SHOWN
DATE:
5/11/2017
CHECKED/APPROVED BY:

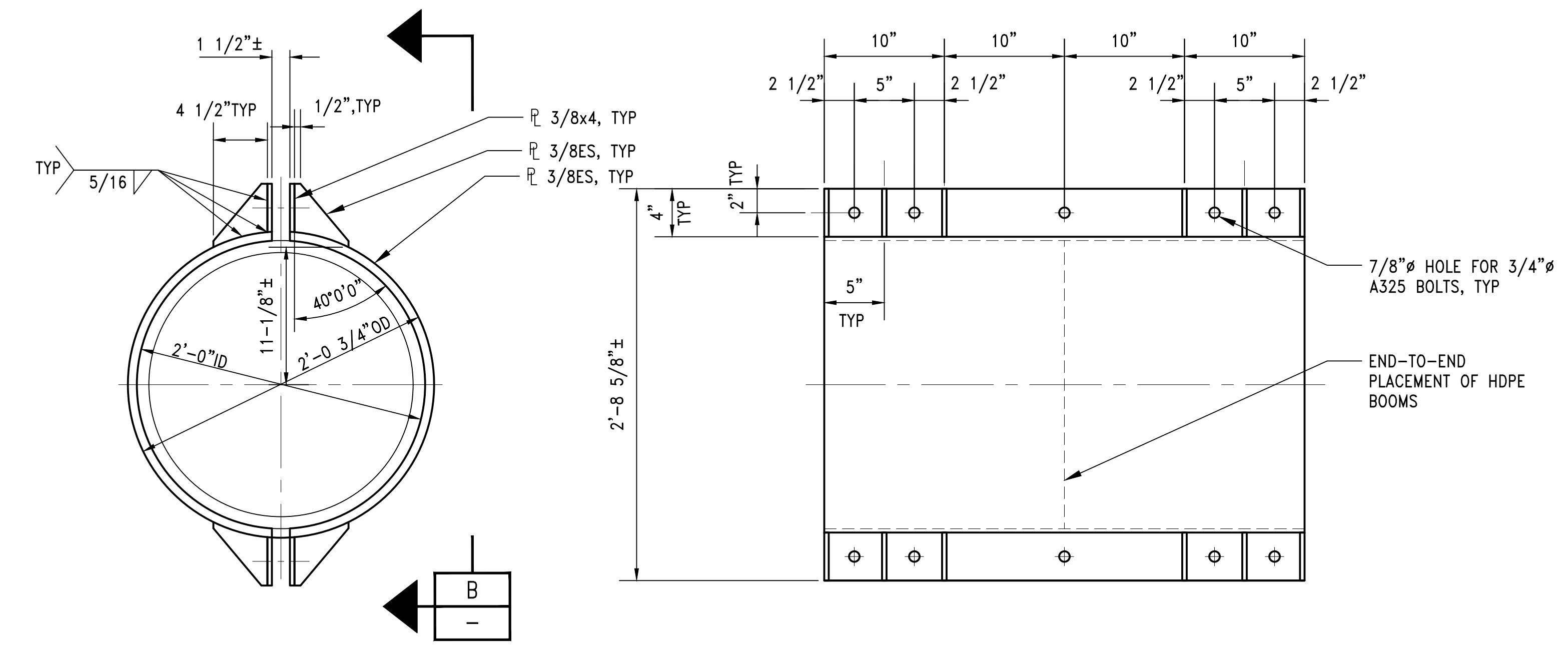
Port of Seattle MARITIME DIVISION
PROJECT: SITE 23 & 25 RESTORATION
SHEET TITLE: OBSERVATION PLATFORM DETAILS

WORK PROJECT NO.
105563
CONSULTANT'S NO.
PORT OF SEATTLE NO.
117-1201 **S4.1**

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DETAIL
DEBRIS DEFLECTOR EXTENSION
SCALE: NTS



SECTION
DEBRIS DEFLECTOR CLAMPING DETAIL
SCALE: 1 1/2" = 1'-0"

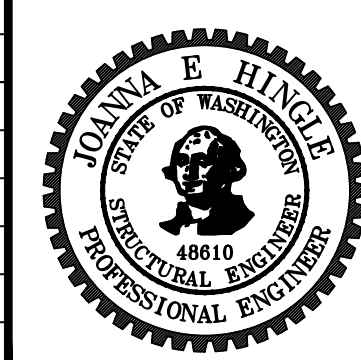
SECTION
DEBRIS DEFLECTOR CLAMP RING DETAIL
SCALE: 1 1/2" = 1'-0"

NOT FOR CONSTRUCTION

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PROJECT ENGINEER:
JOANNA HINGLE
DESIGN ENGINEER:
JOANNA HINGLE
DRAFTER:
KEN LANE
SCALE:
AS SHOWN
DATE:
5/11/2017
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Port of Seattle MARITIME DIVISION

PROJECT: SITE 23 & 25 RESTORATION

SHEET TITLE: DEBRIS DEFLECTOR

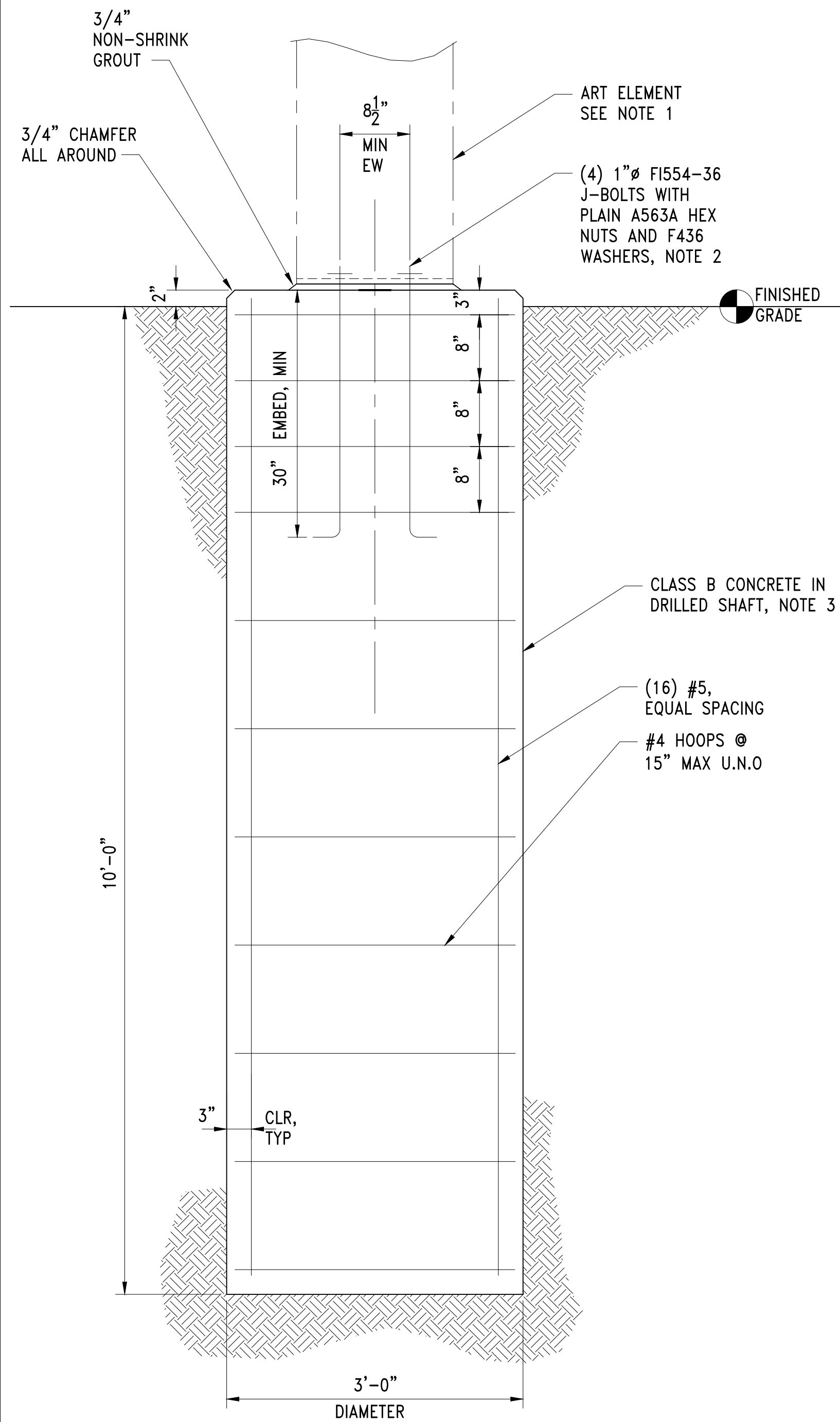
WORK PROJECT NO. 105563

CONSULTANT'S NO.

PORT OF SEATTLE NO. 117-1201

S5.0

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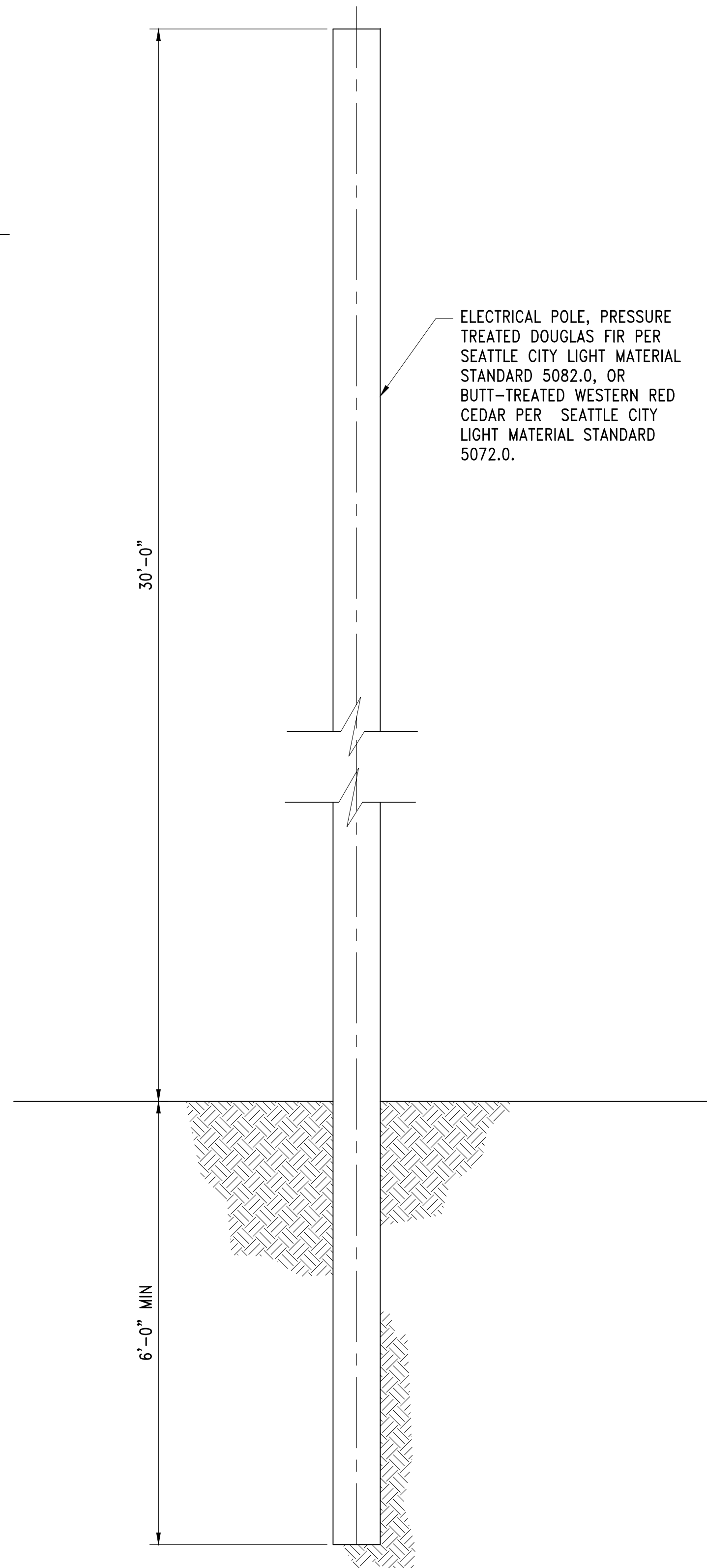
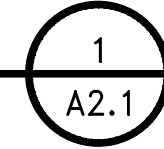


NOTES:

- ART ELEMENT SHALL NOT EXCEED THE FOLLOWING:
 WIDTH=19 IN MAX
 DEPTH=19 IN MAX
 HEIGHT=25 FT MAX
 WEIGHT=1200 LBS MAX
- COORDINATE ANCHOR BOLT LOCATION WITH ARTIST THROUGH ENGINEER
- CONTRACTOR TO PROVIDE STEEL CASING OR OTHER MEANS AS REQUIRED TO PROVIDE SOIL STABILITY AND OTHER CONSTRUCTABILITY MEASURES DURING INSTALLATION

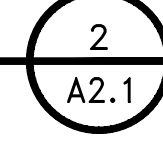
DETAIL

ART ELEMENT FOUNDATION
 SCALE: 1" = 1'-0"



DETAIL

ELECTRICAL POLE FOUNDATION
 SCALE: NOT TO SCALE



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CONSTRUCTION**

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NO.	DATE	BY	DESCRIPTION	APP'D	NO.	DATE	BY
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PROJECT MANAGER:
TICSON MACH
 PROJECT ENGINEER:
JOANNA HINGLE
 DESIGN ENGINEER:
JOANNA HINGLE
 DRAFTER:
KEN LANE
 SCALE:
AS SHOWN
 DATE:
5/11/2017
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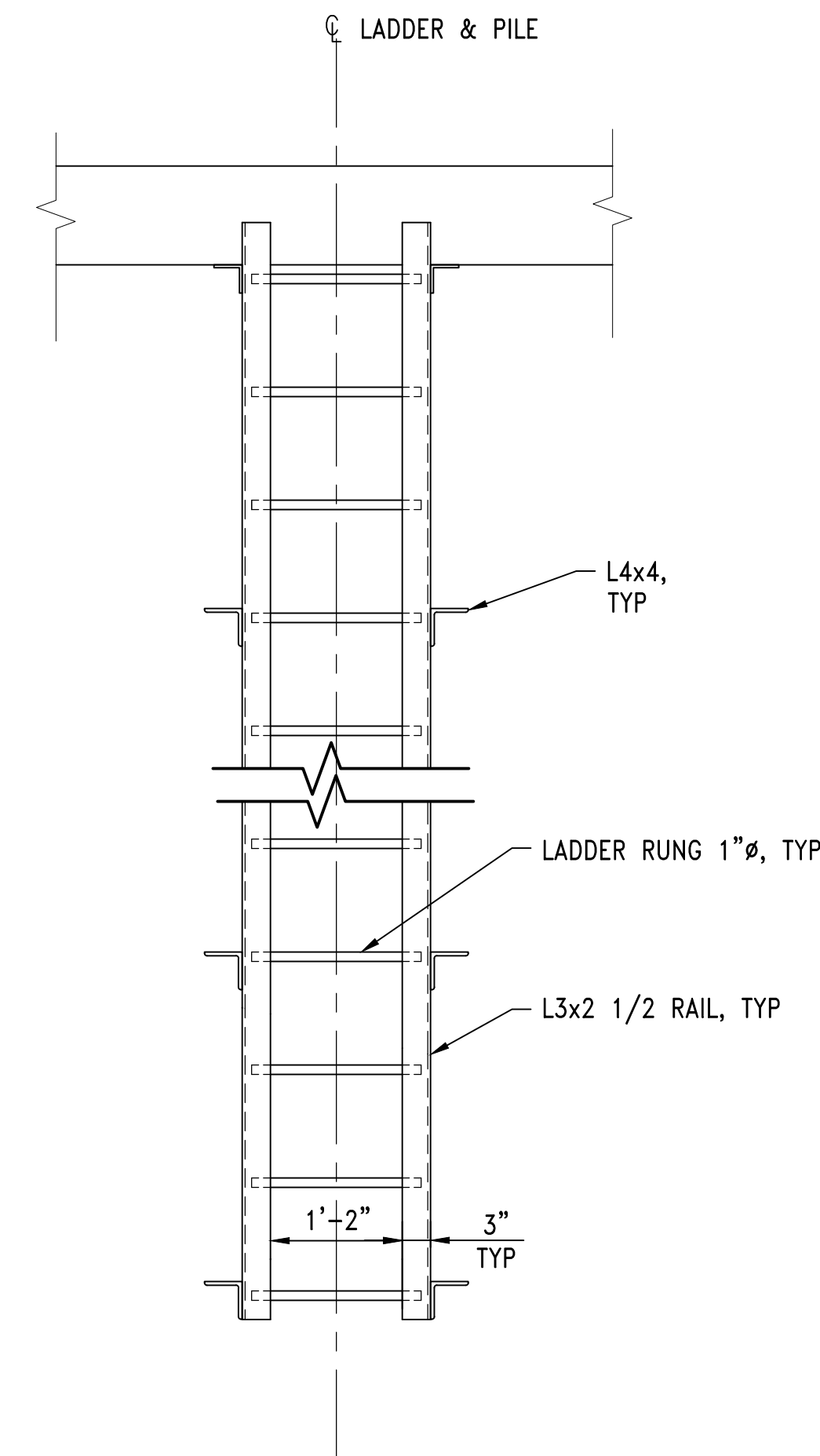
Port of Seattle MARITIME DIVISION

PROJECT: **SITE 23 & 25 RESTORATION**

SHEET TITLE: **PUBLIC ACCESS AREA STRUCTURAL DETAILS**

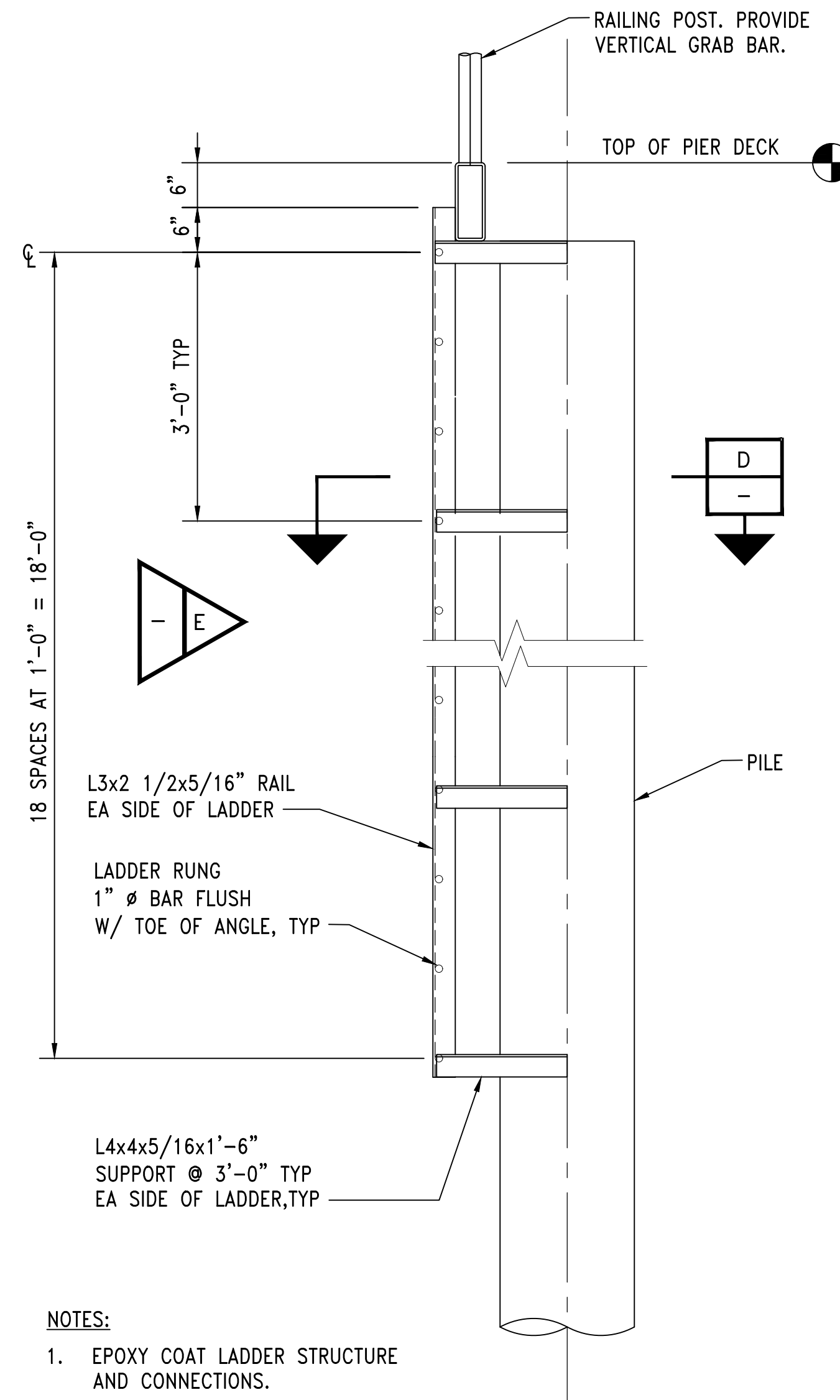
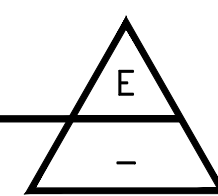
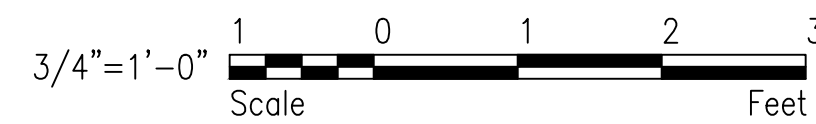
WORK PROJECT NO.
105563
 CONSULTANT'S NO.
 PORT OF SEATTLE NO.
117-1201 S5.1

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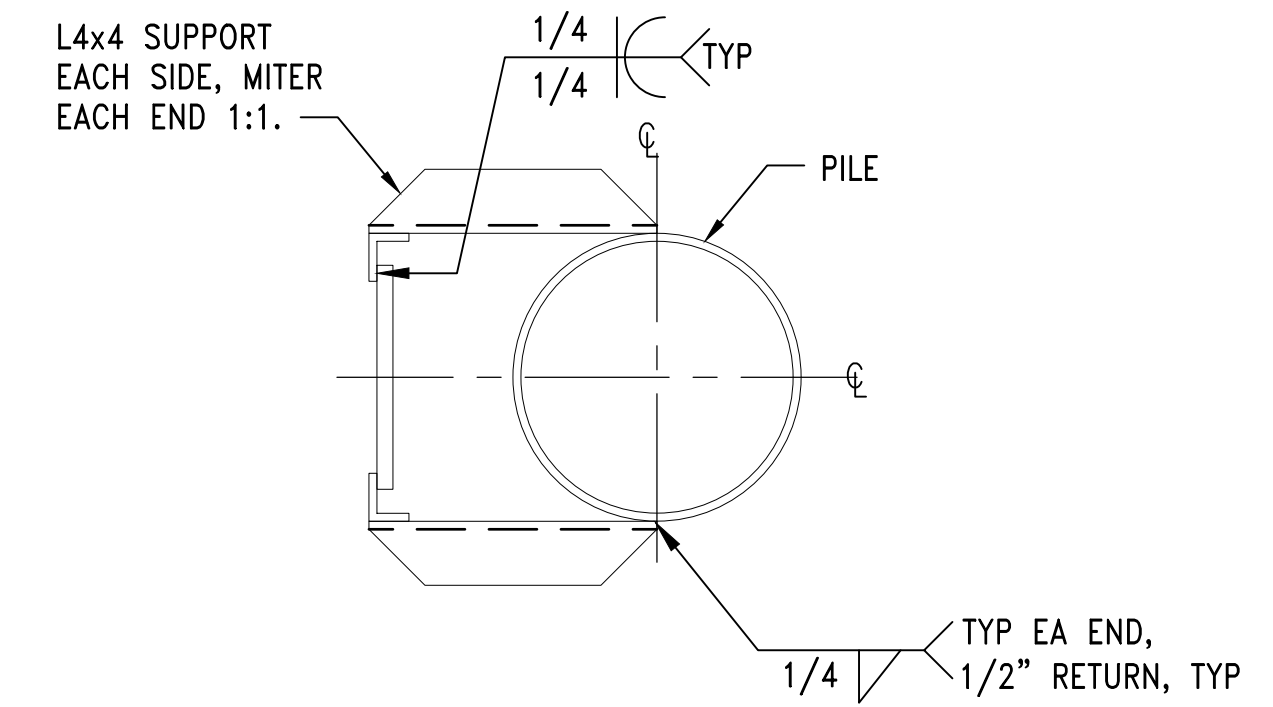
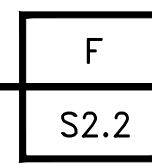
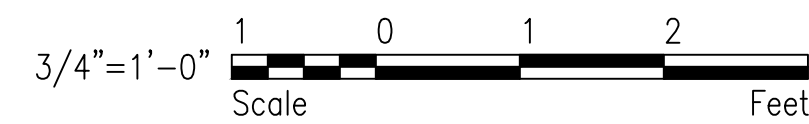
ELEVATION

LADDER
SCALE: 3/4" = 1'-0"



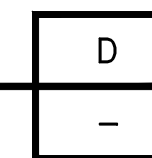
SECTION

LADDER
SCALE: 3/4" = 1'-0"



SECTION

LADDER ATTACHMENT
SCALE: 1" = 1'-0"

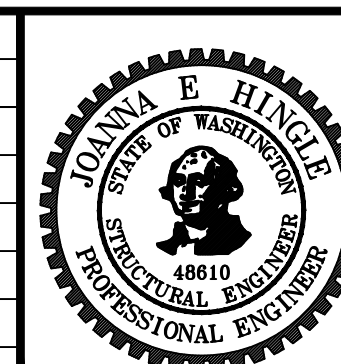


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JOANNA HINGLE
DESIGN ENGINEER:
JOANNA HINGLE
DRAFTER:
KEN LANE
SCALE:
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Port of Seattle MARITIME DIVISION
PROJECT: SITE 23 & 25 RESTORATION
SHEET TITLE: LADDER DETAILS

WORK PROJECT NO.
105563
CONSULTANT'S NO.
PORT OF SEATTLE NO.
117-1201 **S5.2**

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LEGEND

SYMBOLS

LIMITS OF MECHANICAL WORK AREA	
EXISTING UTILITIES	
NEW UTILITIES	
ABANDONED FUEL LINE	
UTILITY LINE TO BE DEMOLISHED	
ABANDONED WATER LINE	
FIRE WATER LINE	
SANITARY SEWER LINE	
STORM DRAIN	
FUEL LINE	
NATURAL GAS LINE	
SS FORCE MAIN	
FIRE LINE	
FIRE HYDRANT	
WATER SPIGOT OR HOSE BIBB	
CLEAT (SHIP TIE-DOWN)	
LIGHT POLE W/ LUMINARE (SINGLE)	
SANITARY SEWER MANHOLE	
WATER MANHOLE	
STORM DRAIN MANHOLE	
CATCH BASIN	
TELEPHONE MANHOLE	
POWER MANHOLE	
POWER HAND HOLE	
TELEPHONE HAND HOLE	
BOLLARD	
CHECK VALVE	
GATE VALVE	
ELBOW-TURNED UP	
ELBOW-TURNED DOWN	
CAP	
REDUCER CONCENTRIC	
TEE-OUTLET UP	
TEE-OUTLET DOWN	
SECTIONAL VALVE WITH NUMBER	
POST INDICATOR VALVE	
MISCELLANEOUS VALVE	
MECHANICAL DEMOLITION WORK AREA	
POINT OF CONNECTION	POC
WATER METER	

LEGEND

SYMBOLS

COUNTOUR LINE	
STRUCTURAL EARTH WALL	
IRRIGATION DRIP LINE W/ INTEGRAL EMITTERS	
CITY WATER SUPPLY MAIN (DOMESTIC POTABLE WATER)	
SCH 80 IRRIGATION MAIN LINE	
SCH 40 IRRIGATION LATERAL LINE	
DOUBLE CHECK BACKFLOW PREVENTER ASSEMBLY & VAULT	
REDUCED PRESSURE BACKFLOW PREVENTER ASSEMBLY & VAULT	
WATER METER & VALVE BOX	
DRIP SYSTEM ZONE CONTROL VALVE, VALVE CONTROLLER, & VALVE BOX	
MANUAL IRRIGATION AREA ISOLATION VALVE & VALVE BOX	
MANUAL IRRIGATION FLUSH VALVE & VALVE BOX	
ADA COMPLIANT HIGH/LOW DRINKING FOUNTAIN, PET FOUNTAIN, & FOOT WASH	

GENERAL NOTES:

- BACKGROUND INFORMATION ON ALL MECHANICAL SHEETS ARE FOR REFERENCE ONLY. FIELD VERIFY LOCATIONS, CONDITIONS, AND DIMENSIONS.
- ALL ADJACENT EQUIPMENT AND SYSTEMS SHALL BE PROTECTED AND KEPT OPERATIONAL. EXISTING EQUIPMENT SHALL BE PROTECTED AND MAINTAINED IN A CONDITION EQUAL TO THAT PRIOR TO COMMENCEMENT OF WORK.
- THE CONTRACTOR SHALL REPAIR TO MATCH EXISTING OR REPLACE, ANY ITEM, EQUIPMENT, OR MATERIAL OUTSIDE THE WORK AREA WHICH IS DAMAGED BY CONSTRUCTION ACTIVITIES DURING THE EXECUTION OF THIS CONTRACT AT NO EXPENSE TO THE OWNER.
- ALL REQUIRED PERMITS FOR MECHANICAL DEMOLITION AND NEW WORK SHALL BE OBTAINED AND PAID FOR BY THE CONTRACTOR.
- EXISTING UTILITY LOCATIONS ARE APPROXIMATE ONLY. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO PROVIDE SERVICES OF A PRIVATE LOCATOR TO VERIFY LOCATIONS, ELEVATIONS, AND CONNECTION REQUIREMENTS PRIOR TO WORK COMMENCEMENT.
- CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS PERTAINING TO THE WORK BEFORE PROCEEDING. THE ENGINEER SHALL BE NOTIFIED OF ANY VARIATION FROM THE DIMENSIONS AND/OR CONDITIONS SHOWN ON THESE DRAWINGS.
- THE CONTRACTOR SHALL NOT PURCHASE MATERIALS OR BEGIN WORK UNTIL THE SHOP DRAWINGS AND PRODUCT DATA SUBMITTAL HAVE BEEN APPROVED BY THE ENGINEER.
- ALL ACTIVATION AND DEACTIVATION OF UTILITIES SHALL BE COORDINATED WITH THE PORT OF SEATTLE RESIDENT ENGINEER IN ADVANCE.
- COORDINATE MECHANICAL WORK WITH OTHER CONSTRUCTION ACTIVITIES. COORDINATE PERTINENT SITE PREPARATION REQUIRED FOR COMPLETING THE MECHANICAL WORK.
- ANY POT-HOLING REQUIRED BY THE CONTRACTOR SHALL BE DONE AT NO COST TO THE PORT OF SEATTLE. COORDINATE WITH THE RESIDENT ENGINEER.
- NOTIFY SEATTLE PUBLIC UTILITIES IN ADVANCE FOR INSPECTION OF PIPING PRIOR TO COVERING TRENCHES.

RESTORATION NOTES:

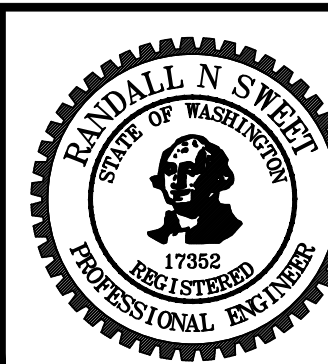
- RESTORE GRADES TO ORIGINAL LEVELS WHERE SETTLEMENT OR DAMAGE DUE TO PERFORMANCE OF THE WORK HAS OCCURRED. CORRECT CONDITIONS CONTRIBUTING TO SETTLEMENT. REMOVE AND REPLACE IMPROPERLY PLACED OR POORLY COMPACTED FILL MATERIALS.
- RESTORE PAVEMENTS, WALKS, CURBS, STREET STRIPING, LANDSCAPING, IRRIGATION AND OTHER SURFACE FEATURES DAMAGED DURING PERFORMANCE OF THE WORK TO MATCH THE APPEARANCE AND PERFORMANCE OF EXISTING CORRESPONDING FEATURES.

NOT FOR CONSTRUCTION

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1-800-424-5555

PROJECT ENGR./ARCH:
DESIGNER:
DRAWN BY:
SCALE:
DATE:
CHECKED BY:
CHECKED/APPROVED BY:

REVISIONS						
NO.	DATE	BY	DESCRIPTION	APP'D	NO.	DATE
	5/11/17		ISSUED FOR BID			

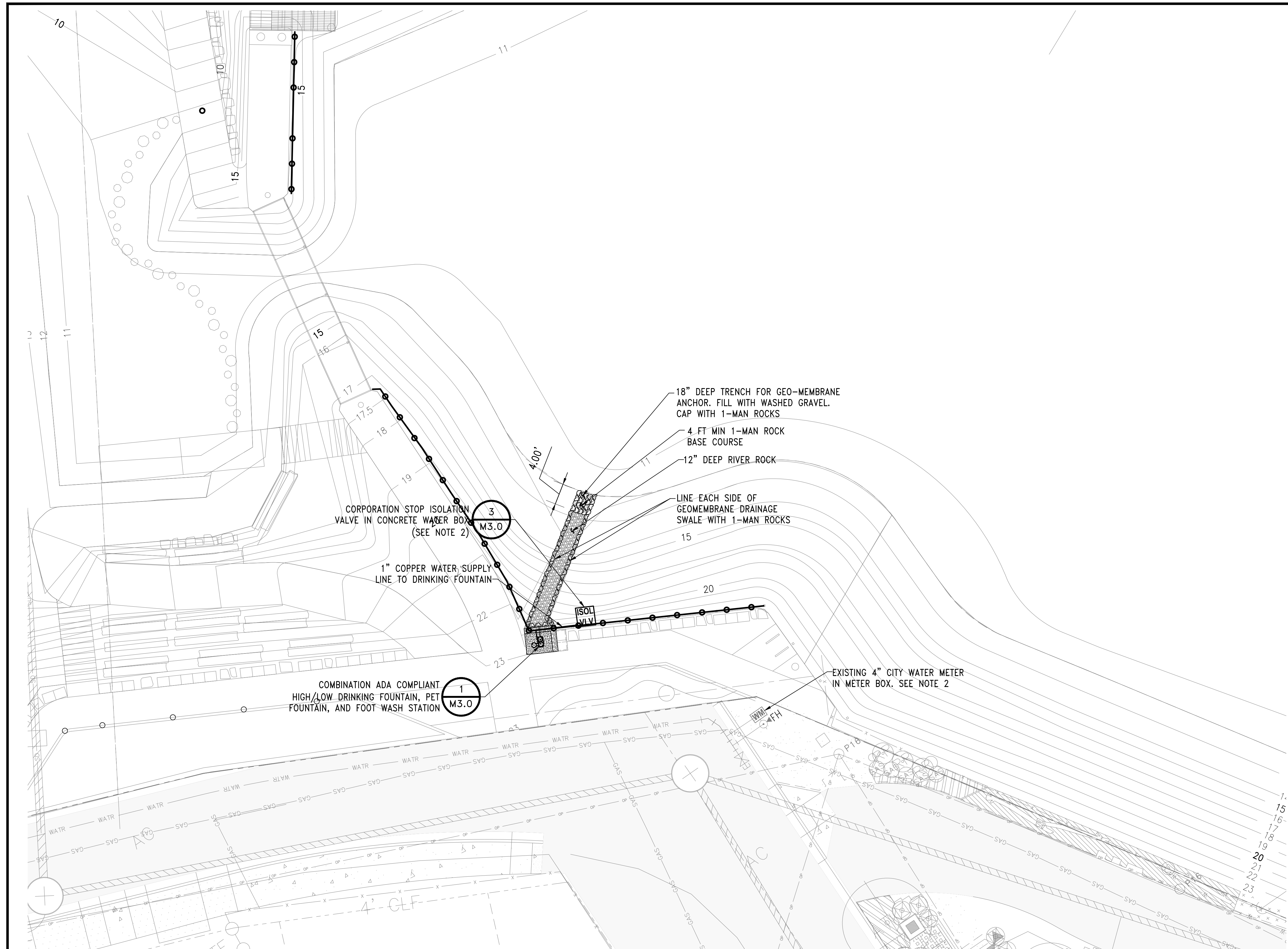


PROJECT MANAGER: TICSON MACH
PROJECT ENGINEER: JOANNA HINGLE
DESIGN ENGINEER: JAY BABB
DRAWER: JAY BABB
SCALE: AS NOTED
DATE: 5/11/2017
CHECKED/APPROVED BY: BOB ROMERO

Port of Seattle MARITIME DIVISION	PROJECT: SITE 23 & 25 RESTORATION
	SHEET TITLE: MECHANICAL LEGEND, GENERAL NOTES, DEMOLITION NOTES, AND RESTORATION NOTES

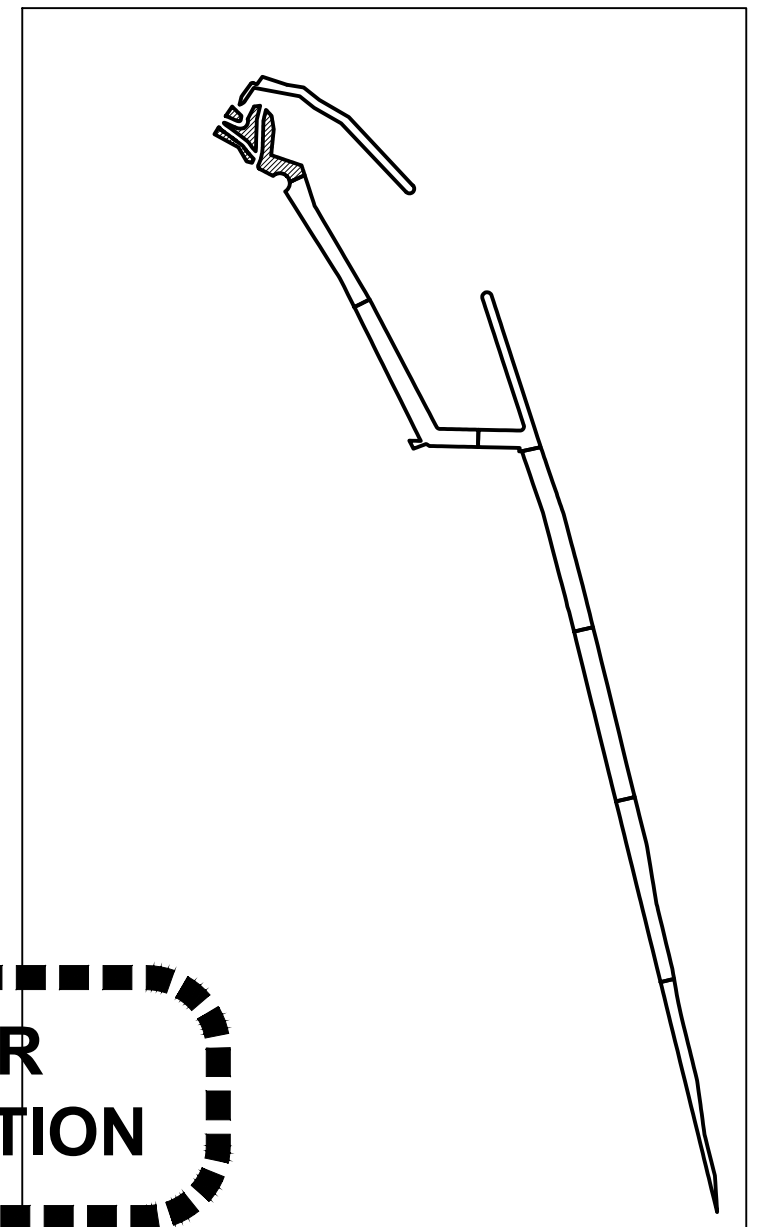
WORK PROJECT NO. 105563
CONSULTANT'S NO.
PORT OF SEATTLE NO. 117-1201
M1.0

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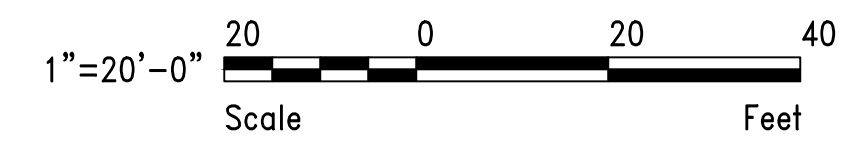
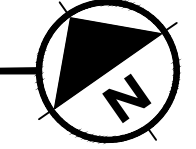
NOTES:

1. FOR GENERAL NOTES SEE DWG. M1.0.
2. PERMANENT CONNECTION TO THE CITY WATER SUPPLY WILL OCCUR DURING INSTALLATION OF THE LANDSCAPE PLANTING AND IRRIGATION SYSTEM. THE CONTRACTOR SHALL TEMPORARILY CONNECT TO THE CITY WATER SUPPLY AT THE EXISTING 4" WATER METER FOR FLUSHING, PRESSURE TESTING, DISINFECTION, AND FUNCTIONALLY TESTING ALL COMPONENTS OF THE DRINKING FOUNTAIN. TO PREVENT DAMAGE TO THE DRINKING FOUNTAIN, THE TEMPORARY WATER SUPPLY CONNECTION TO THE EXISTING CITY WATER METER SHALL INCLUDE A BACKFLOW PREVENTER, PRESSURE REGULATING VALVE (SET AT 40 PSI), AND STRAINER.

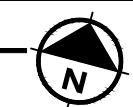


NOT FOR CONSTRUCTION

WATER PLAN
SCALE: 1"= 20'-0"



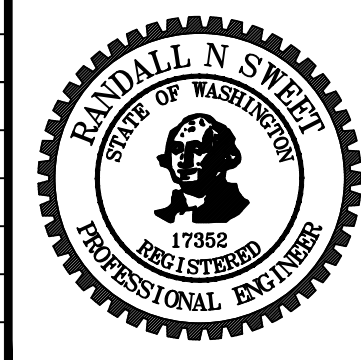
KEY PLAN
SCALE: NTS



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SCALE:
DATE:
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1	5/11/17		ISSUED FOR BID						



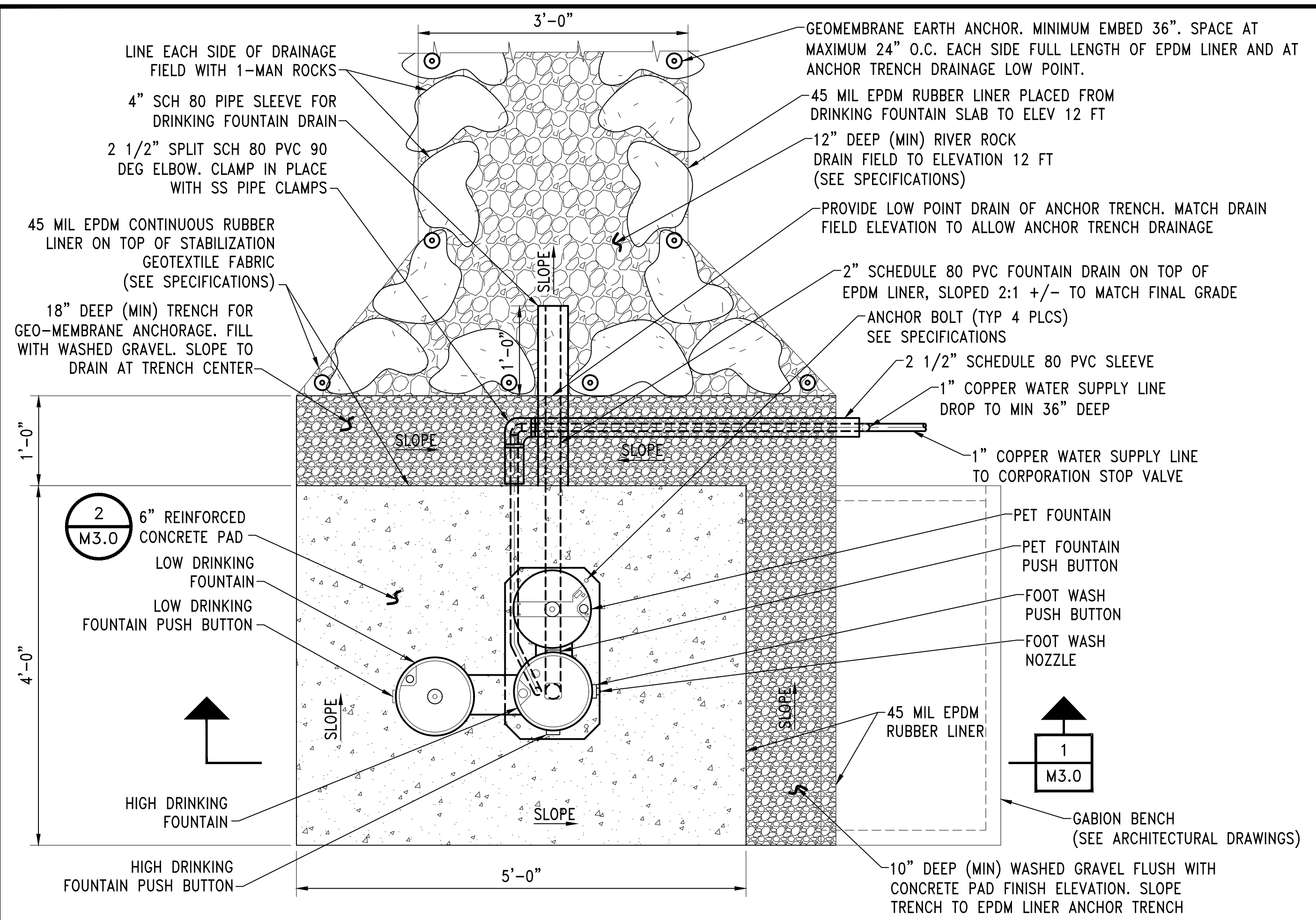
PROJECT MANAGER:
TICSON MACH
PROJECT ENGINEER:
JOANNA HINGLE
DESIGN ENGINEER:
JAY BABB
DRAFTER:
JAY BABB
SCALE:
AS NOTED
DATE:
5/11/2017
CHECKED/APPROVED BY:
RANDALL SWEET

Port of Seattle MARITIME DIVISION

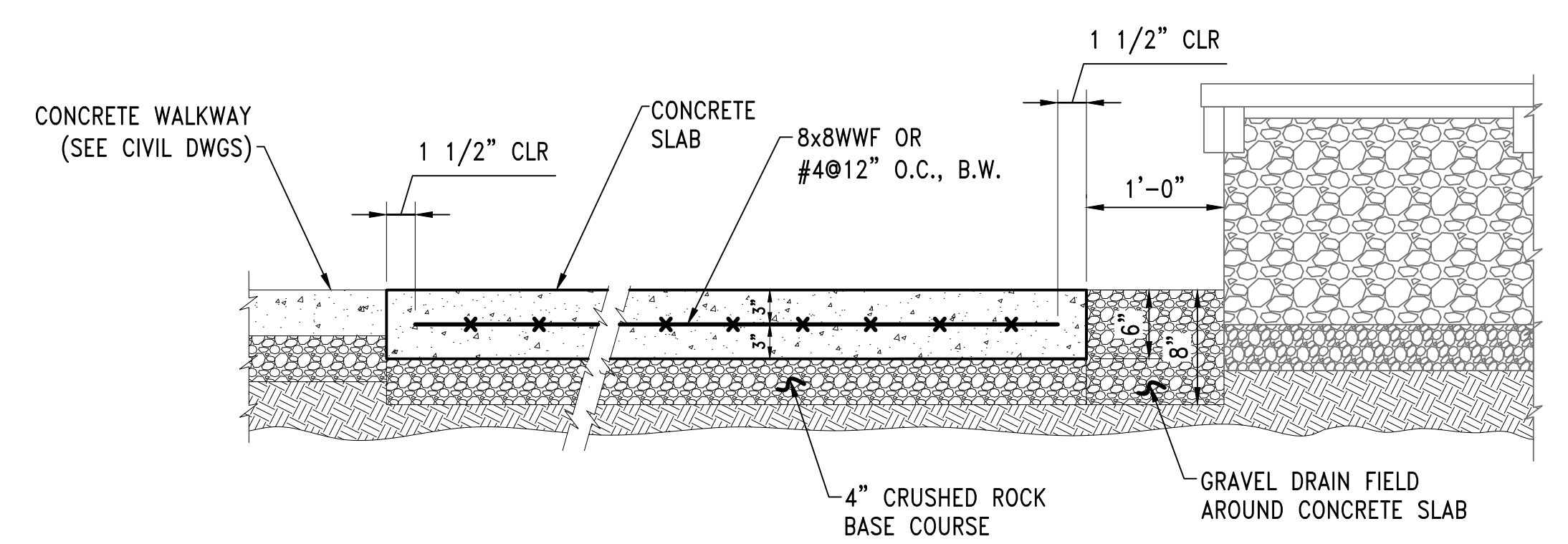
PROJECT: **SITE 23 & 25 RESTORATION**

SHEET TITLE: **WATER PLAN - DRINKING FOUNTAIN, DRAINAGE SWALE, & WATER SUPPLY**

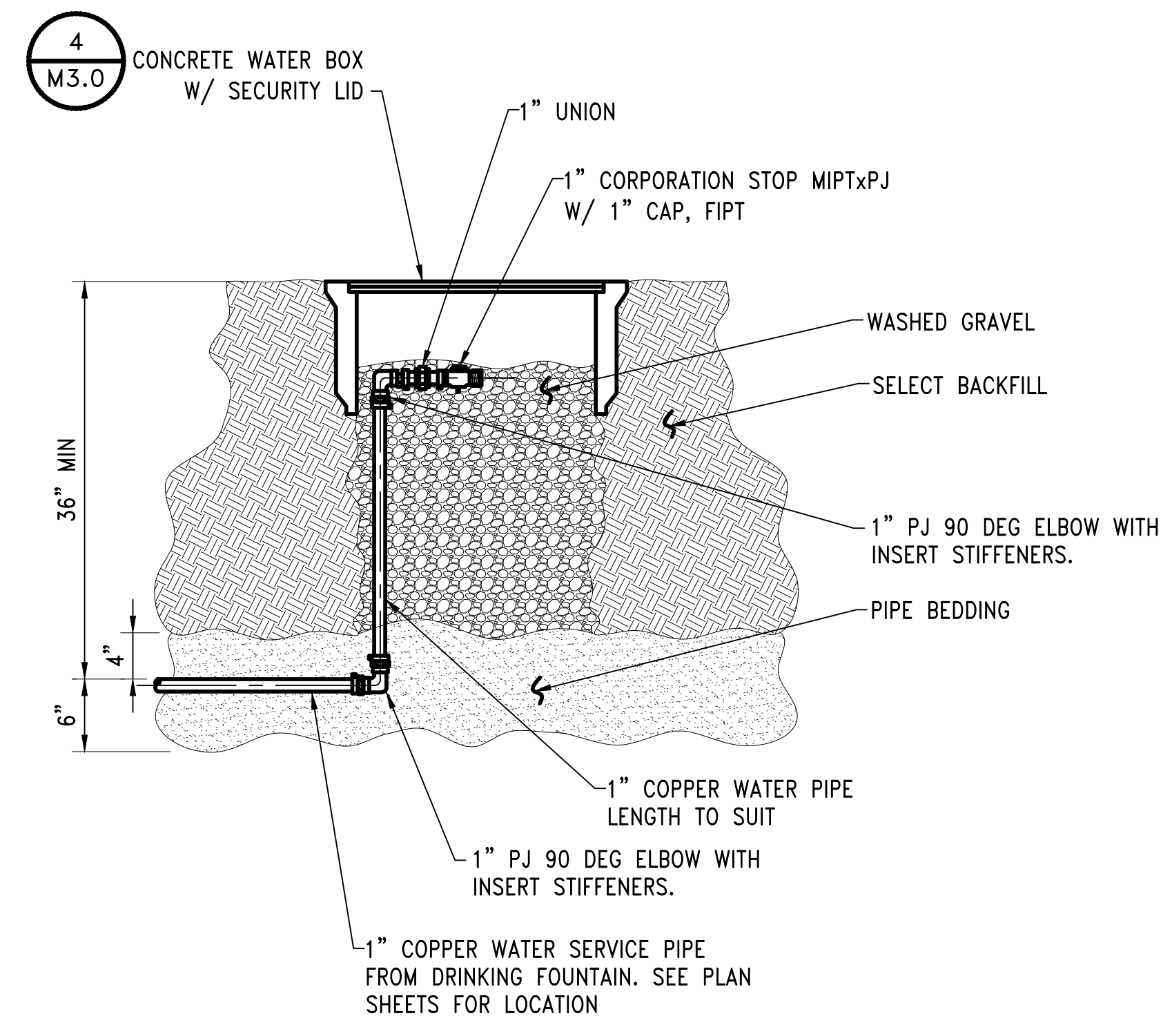
WORK PROJECT NO.	105563
CONSULTANT'S NO.	
PORT OF SEATTLE NO.	117-1201
M2.0	



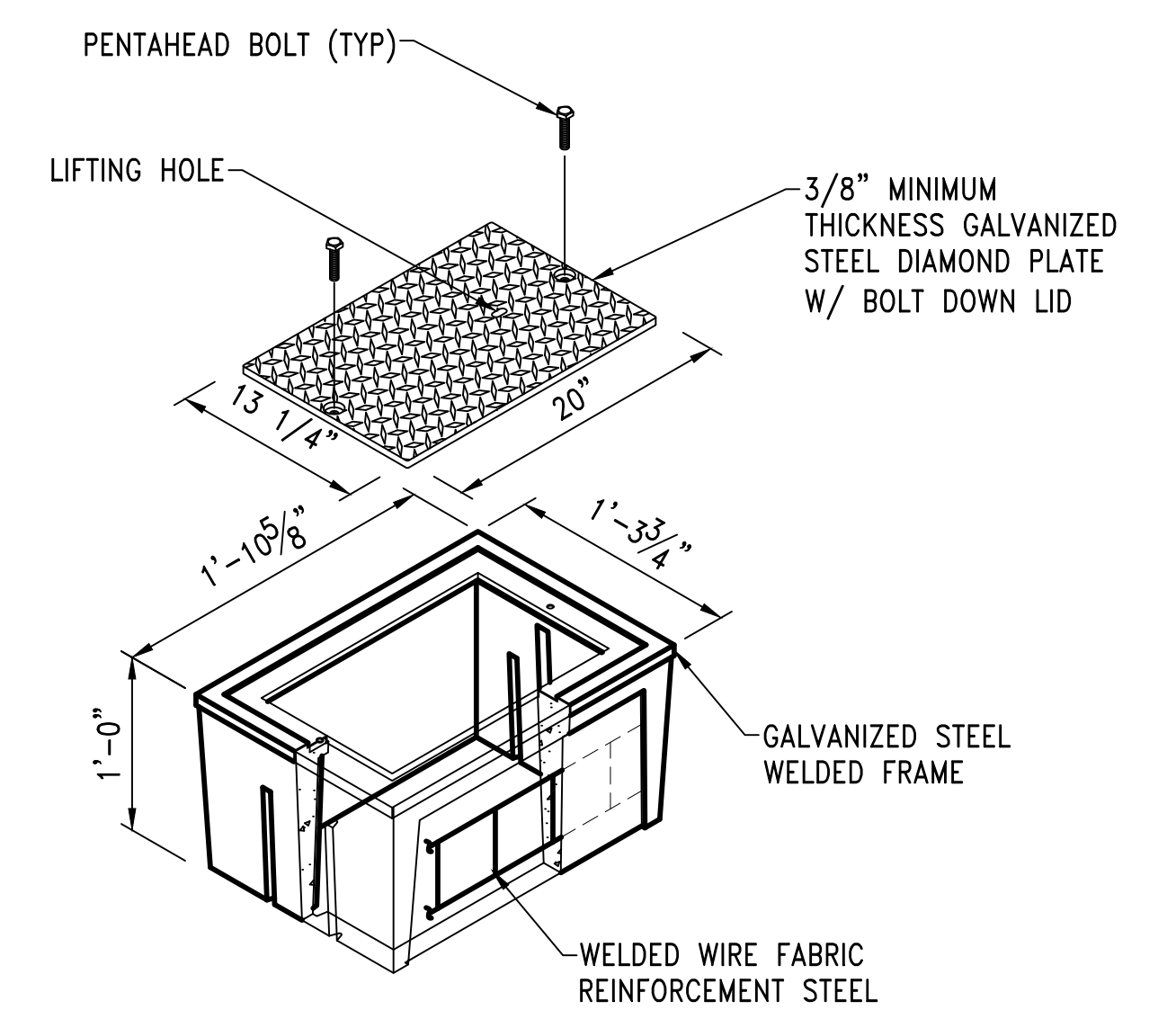
DETAIL 1
COMBINATION HIGH/LOW ADA COMPLIANT DRINKING FOUNTAIN, PET FOUNTAIN, AND FOOT WASH
SCALE: 1"=1'-0"



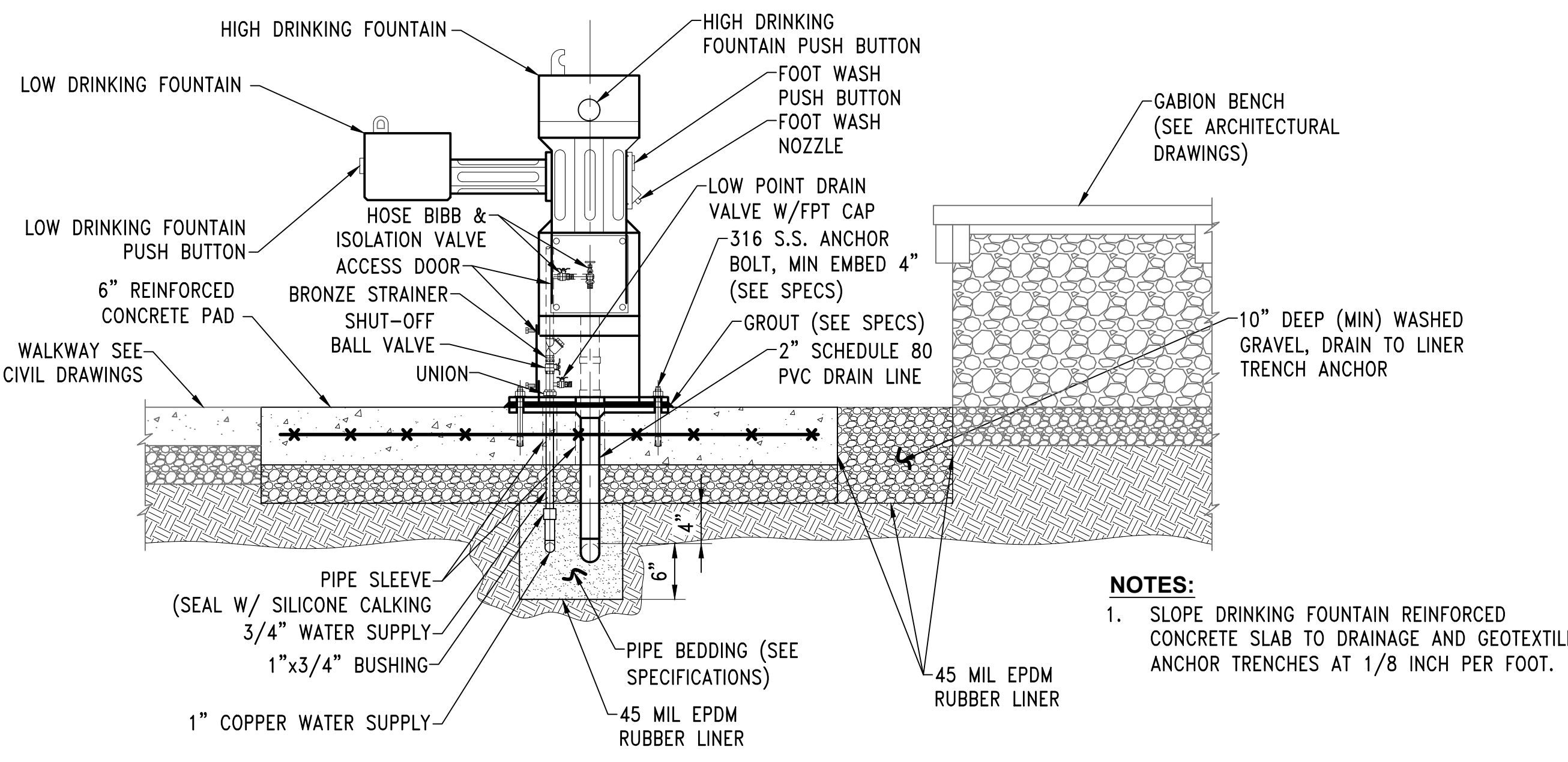
DETAIL 2
COMBINATION DRINKING FOUNTAIN, PET FOUNTAIN AND FOOT WASH REINFORCED CONCRETE PAD
SCALE: 1"=1'-0"



DETAIL 3
1" WATER SERVICE CONNECTION FOR COMBINATION DRINKING FOUNTAIN/PET FOUNTAIN
SCALE: NONE



DETAIL 4
TYPICAL CONCRETE WATER BOX W/ SECURITY LID FOR WATER CONNECTION
SCALE: 1"= 1'-0"



SECTION 1
COMBINATION HIGH/LOW ADA COMPLIANT DRINKING FOUNTAIN, PET FOUNTAIN, AND FOOT WASH
SCALE: 1"= 1'-0"

NOTES:
1. SLOPE DRINKING FOUNTAIN REINFORCED CONCRETE SLAB TO DRAINAGE AND GEOTEXTILE ANCHOR TRENCHES AT 1/8 INCH PER FOOT.

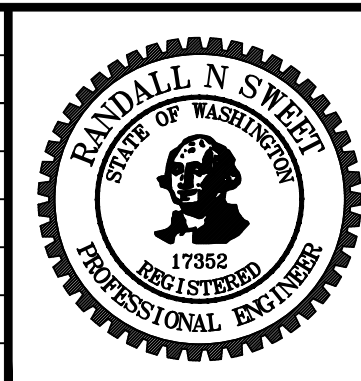
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1	5/11/17		ISSUED FOR BID		



PROJECT MANAGER:
TICSON MACH
PROJECT ENGINEER:
JOANNA HINGLE
DESIGN ENGINEER:
JAY BABB
DRAWER:
JAY BABB
SCALE:
AS NOTED
DATE:
5/11/2017
CHECKED/APPROVED BY:
RANDALL SWEET





Port of Seattle MARITIME DIVISION

PROJECT: SITE 23 & 25 RESTORATION

SHEET TITLE: WATER FOUNTAIN, REINFORCED CONCRETE EQUIPMENT PAD, & SECTIONS & DETAILS

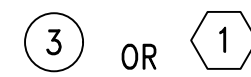
WORK PROJECT NO.	105563
CONSULTANT'S NO.	
PORT OF SEATTLE NO.	117-1201
M3.0	

ELECTRICAL SYMBOLS

-  BOLLARD POST WITH SOLAR LIGHT
-  SOLAR DOCK POST LIGHT
-  SOLAR DOCK LIGHT (MOUNTED ON RAIL)
-  SOLAR DOCK LIGHT (MOUNTED ON DECK)

DRAWING SYMBOLS

KEYED NOTE



GENERAL NOTES:

(APPLICABLE TO ALL SHEETS)

1. "PROVIDE" SHALL MEAN TO FURNISH AND INSTALL COMPLETE ELECTRICAL SYSTEM INCLUDING TESTING, O & M MANUALS, AND LEAVE IT IN OPERATING CONDITION.
2. ALL ITEMS ON THE ELECTRICAL DRAWINGS ARE NEW UNLESS STATED OTHERWISE.
3. ALL ELECTRICAL WORK SHALL CONFORM TO THE LATEST ADOPTED EDITION OF THE NATIONAL ELECTRICAL CODE AND LOCAL ORDINANCES. ALL WORK AND MATERIALS SHALL COMPLY WITH PORT OF SEATTLE ELECTRICAL STANDARDS. THE STANDARDS CAN BE DOWNLOADED FROM THE PORT OF SEATTLE WEBSITE, WWW.PORTSEATTLE.ORG.

ELECTRICAL SPECIFICATION

PART 1-GENERAL

1.01 DESCRIPTION OF WORK:

- A. THE EXTENT AND LOCATION OF "ELECTRICAL" WORK IS INDICATED ON THE DRAWINGS. THE WORK INCLUDES THE REQUIREMENTS FOR ACCOMPLISHING ALL ELECTRICAL WORK FOR THIS CONTRACT AS SPECIFIED HEREIN AND INDICATED ON THE DRAWINGS. THE WORK INCLUDES FURNISHING AND INSTALLING NEW EQUIPMENT.
- C. SHALL BE OF THE SAME MAKE AND QUALITY THROUGHOUT THE PROJECT. LISTS OF ALL MATERIALS, MANUFACTURERS' NAMES AND CATALOG NUMBERS SHALL BE SUBMITTED FOR APPROVAL PRIOR TO ORDERING.
- D. ALL EQUIPMENT SHALL CONFORM WITH THE LATEST PUBLISHED NATIONAL ELECTRICAL MANUFACTURERS' ASSOCIATION SPECIFICATIONS AND WITH THE APPLICABLE FEDERAL SPECIFICATIONS ALL EQUIPMENT SHALL BE U.L LISTED AND LABELED. ALL INSULATED WIRE AND CABLE SHALL CONFORM WITH THE INSULATED POWER CABLE ENGINEERS' ASSOCIATION LATEST APPLICABLE SPECIFICATIONS.

1.02 QUALITY ASSURANCE:

- A. QUALIFICATION OF MANUFACTURER: THE ELECTRICAL EQUIPMENT FABRICATOR SHALL HAVE NOT LESS THAN TEN YEARS' CONTINUOUS EXPERIENCE IN THE FABRICATION OF EQUIPMENT. THE FABRICATOR SHALL BE CERTIFIED BY U.L.
- B. CODES AND STANDARDS: ALL PROCEDURES, ELECTRICAL MATERIALS AND INSTALLATIONS SHALL BE IN ACCORDANCE WITH APPLICABLE PROVISIONS OF THE CURRENT NATIONAL ELECTRICAL CODE, NFPA 70, DEPARTMENT OF LABOR AND INDUSTRIES (L & I) ELECTRICAL CODE, AND AS OTHERWISE SET FORTH UNDER THESE SPECIFICATIONS.
- C. SAFETY: THE APPLICABLE STATE OF WASHINGTON SAFETY RULES AND HEALTH STANDARDS INCLUDING WAC 296-44, WAC-294-45, AND THE PORT OF SEATTLE "ELECTRICAL SAFETY RULES" SHALL BE OBSERVED AND COMPLIED WITH IN EVERY DETAIL.
- D. SEISMIC RESTRAINT: A FIXED DEVICE SUCH AS SEISMIC BRACE, AN ANCHOR BOLT OR STUD, OR FASTENING ASSEMBLY, USED TO PREVENT VERTICAL OR HORIZONTAL MOVEMENT, OR BOTH VERTICAL AND HORIZONTAL MOVEMENT, OF AN ELECTRICAL SYSTEM COMPONENT DURING EARTHQUAKE.
- E. FIXTURES, MOUNTING HARDWARE, AND TRIM: COORDINATE LAYOUT AND INSTALLATION OF LIGHT FIXTURES AND OTHER CONSTRUCTION.

1.03 SUBMITTALS:

- A. SUBMIT THE FOLLOWING:
 1. SOLAR POWERED LED BOLLARD
 2. SOLAR POWERED DOCK POST LIGHT.
 3. SOLAR POWERED UNDER-GLOW DOCK LIGHT.

1.04 ELECTRICAL PERMITS AND INSPECTIONS:

- A. OBTAIN NECESSARY PERMITS AND INSPECTIONS REQUIRED BY THE DEPARTMENT OF LABOR AND INDUSTRIES (L & I).
- B. ALL ABOVE INSPECTION AUTHORITY CODES OR REFERENCES ARE MADE A PORTION OF THESE SPECIFICATIONS AND THIS CONTRACT.

PART 2-PRODUCTS

2.01 GENERAL:

- A. THIS SECTION INCLUDES THE REQUIREMENTS FOR THE SPECIAL PRODUCTS AND MATERIALS FOR USE IN THE ELECTRICAL WORK.
- B. MATERIALS SHALL BE OF THE QUALITY HEREIN SPECIFIED, NEW, FREE FROM DEFECTS, OF THE BEST COMMERCIAL GRADE AND APPROVED BY A NATIONALLY RECOGNIZED TESTING LABORATORY FOR THE PURPOSE USED, IF SUCH APPROVAL IS GRANTED TO THE EQUIPMENT IN QUESTION. EACH TYPE OF MATERIAL

2.02 SOLAR POWERED LED BOLLARD:

- A. SOLAR MODULE:
 1. HIGH IMPACT, UV RESISTANT, POLYCARBONATE
 2. ENCAPSULATION
 3. HIGH-EFFICIENCY MONO-CRYSTALLINE CELLS
 4. INTEGRATED INTO BOLLARD HOUSING
 5. USED FOR DAY/NIGHT DETECTION (NO PHOTOCCELL REQUIRED)
- B. ENERGY MANAGEMENT SYSTEM(EMS):
 1. HIGH EFFICIENCY MAXIMUM POWER POINT TRACKING CHARGE CONTROLLER
 2. MICRO-CONTROLLER BASED TECHNOLOGY
 3. INCLUDES HIGH-EFFICIENCY LED DRIVER
 4. INTEGRATED INTO BOLLARD HOUSING
 5. DESIGNED TO AUTOMATICALLY MANAGE LIGHTING
 6. PERFORMANCE BASED ON ENVIRONMENTAL CONDITIONS AND LIGHTING REQUIREMENTS
- C. Battery:
 1. PURE LEAD, SPIRAL WOUND, ABSORBED GLASS MAT (AGM)
 2. SUPERIOR CYCLIC PERFORMANCE
 3. HIGH TEMPERATURE TOLERANCE
 4. 10 YEAR DESIGN LIFE
 5. CONTAINED WITHIN BOLLARD POST
 6. SIMPLE BATTERY CHANGES WHEN REQUIRED
- D. LEDs AND OPTICS:
 1. THREE HIGH-OUTPUT CREE LEDS
 2. 50,000 HOUR L70 LIFETIME
 3. WARM (3000K) COLOR TEMPERATURES.
 4. TYPE III AND TYPE V HIGH EFFICIENCY, CUT-OFF OPTICS
 5. TYPICAL LUMEN OUTPUT OF 130 LUMENS
- E. CONSTRUCTION:
 1. CAST, LOW COPPER ALUMINUM HOUSING
 2. EXTRUDED, LOW COPPER ALUMINUM POST
 3. STAINLESS FASTENERS WITH SECURITY FASTENER.
 4. HIGH STRENGTH MOUNTING PLATE
 5. ARCHITECTURAL GRADE, SUPER DURABLE, TGIC POWDER COAT WITH ALODINE UNDERCOAT.
- F. COLORS:
 1. BLACK FINISH
- G. LIGHTING PROFILES:
 1. AUTOMATICALLY TURNS ON AT DUSK-OFF AT DAWN.

2.03 SOLAR UNDER-GLOW DOCK LIGHT:

- A. CONSTRUCTION:
 1. DESIGNED TO WITHSTAND HARSH WEATHER IN FRESHWATER AND SALTWATER ENVIRONMENTS.

- B. LED BRIGHTNESS EQUALS 20 OR MORE LUMENS
 - C. MOUNTS EASILY
 - D. AUTOMATICALLY TURNS ON AT DUSK-OFF AT DAWN
- 2.04 DOCK EDGE SOLAR POST LIGHTS:
- A. CONSTRUCTION:
 1. DESIGNED TO WITHSTAND HARSH WEATHER IN FRESHWATER AND SALTWATER ENVIRONMENTS.
 - B. LED BRIGHTNESS EQUALS 20 OR MORE LUMENS
 - C. MOUNTS EASILY
 - D. AUTOMATICALLY TURNS ON AT DUSK-OFF AT DAWN
 - E. 360 LENTICULAR LIGHT DUFFUSING LENS

PART 3-EXECUTION

3.01 GENERAL:

- A. TESTS: TEST ALL EQUIPMENT FOR DEFECTS. WHERE SUCH TESTS INDICATE DEFECTS, ALL SUCH DEFECTS AND FAULTS SHALL BE LOCATED, REPAIRED AND RETESTED.
- B. INSPECTION: WORK UNDER THIS CONTRACT SHALL BE SUBJECT TO INSPECTION BY THE DEPARTMENT OF LABOR AND INDUSTRIES (L & I).

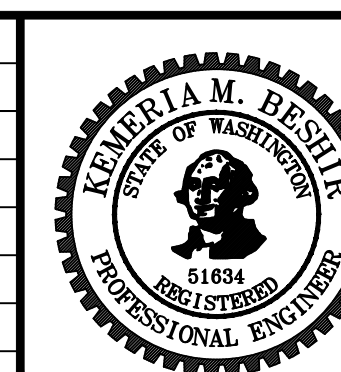


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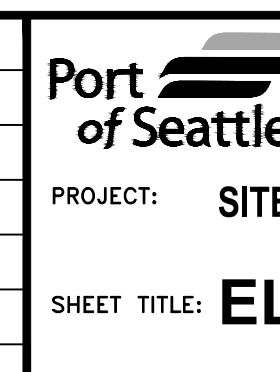
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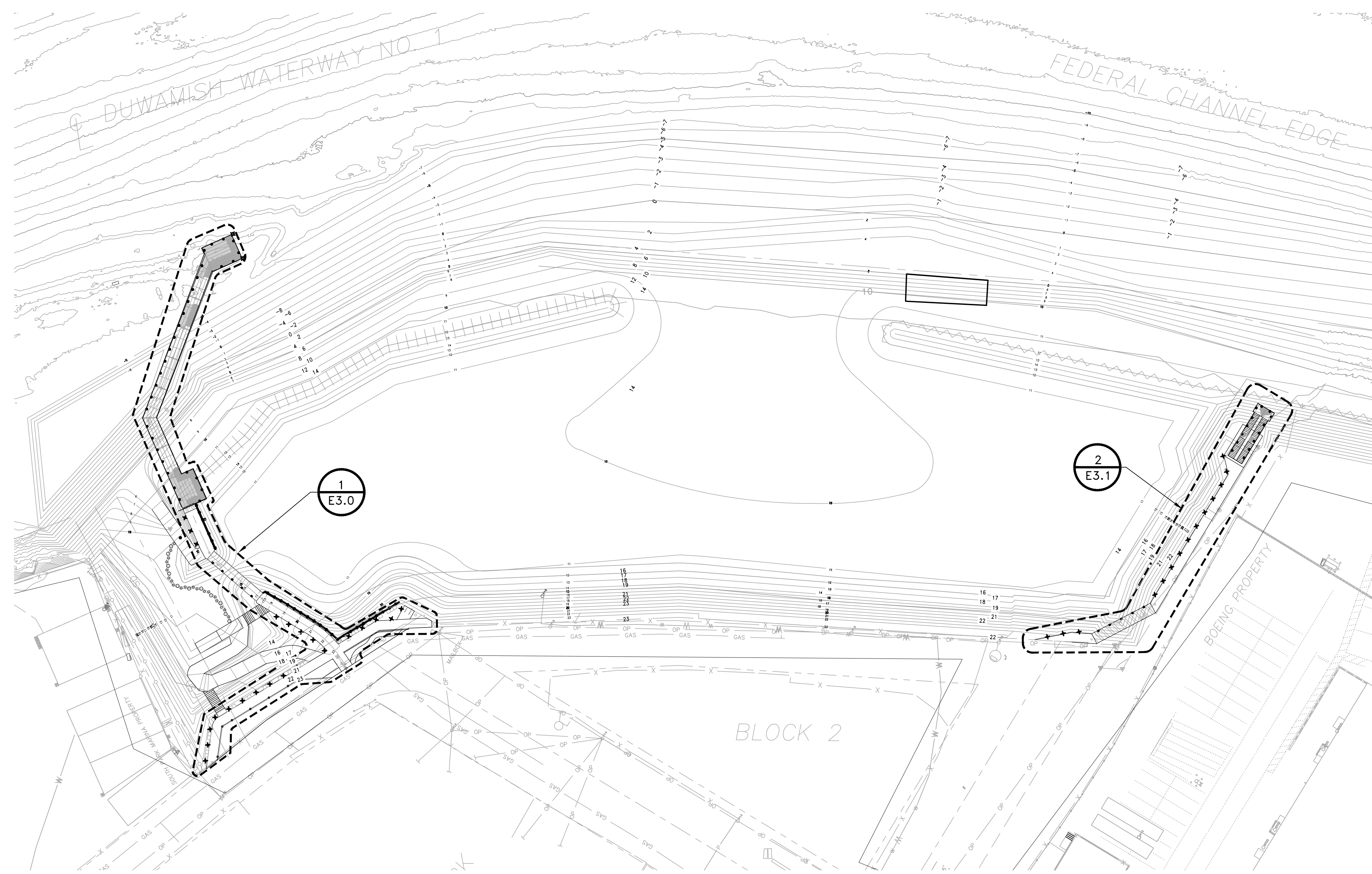
PROJECT MANAGER: TICSON MACH
PROJECT ENGINEER: JOANNA HINGLE
DESIGN ENGINEER: K. BESHIR
DRAWER: A. OLSZEWSKI
SCALE: AS SHOWN
DATE: 5/11/2017
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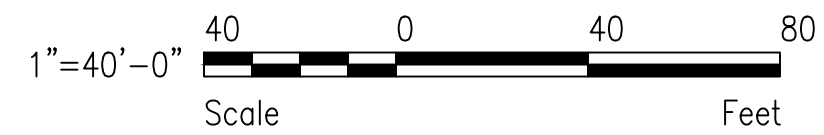
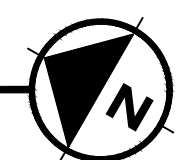
MARITIME DIVISION
PROJECT: SITE 23 & 25 RESTORATION
SHEET TITLE: ELECTRICAL LEGEND AND SYMBOLS

WORK PROJECT NO. 105563
CONSULTANT'S NO.
PORT OF SEATTLE NO. 117-1201 E1.0

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ELECTRICAL SITE PLAN
 SCALE: 1"=40'

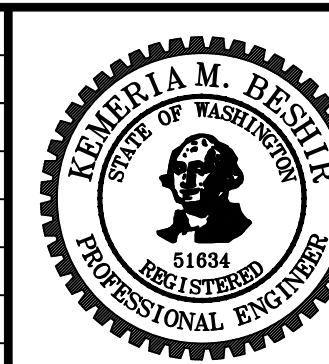


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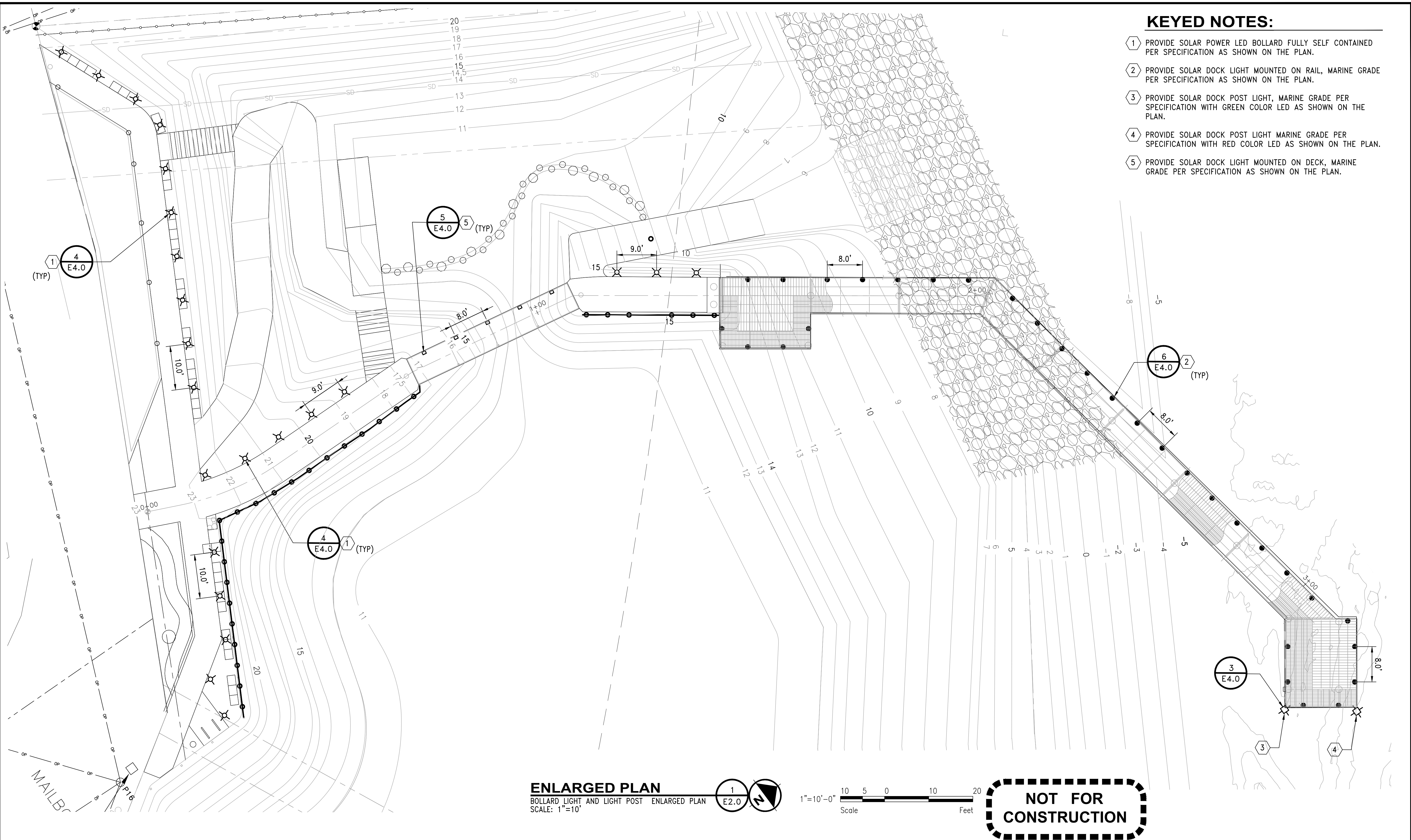


PROJECT MANAGER:
TICSON MACH
 PROJECT ENGINEER:
JOANNA HINGLE
 DESIGN ENGINEER:
K. BESHIR
 DRAFTER:
A. OLSZEWSKI
 SCALE:
AS SHOWN
 DATE:
5/11/2017
 CHECKED/APPROVED BY:

Port of Seattle MARITIME DIVISION
 PROJECT: **SITE 23 & 25 RESTORATION**
 SHEET TITLE: **ELECTRICAL SITE PLAN**

WORK PROJECT NO.
105563
 CONSULTANT'S NO.
 PORT OF SEATTLE NO.
117-1201 **E2.0**

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- KEYED NOTES:**
- 1 PROVIDE SOLAR POWER LED BOLLARD FULLY SELF CONTAINED PER SPECIFICATION AS SHOWN ON THE PLAN.
 - 2 PROVIDE SOLAR DOCK LIGHT MOUNTED ON RAIL, MARINE GRADE PER SPECIFICATION AS SHOWN ON THE PLAN.
 - 3 PROVIDE SOLAR DOCK POST LIGHT, MARINE GRADE PER SPECIFICATION WITH GREEN COLOR LED AS SHOWN ON THE PLAN.
 - 4 PROVIDE SOLAR DOCK POST LIGHT MARINE GRADE PER SPECIFICATION WITH RED COLOR LED AS SHOWN ON THE PLAN.
 - 5 PROVIDE SOLAR DOCK LIGHT MOUNTED ON DECK, MARINE GRADE PER SPECIFICATION AS SHOWN ON THE PLAN.

ENLARGED PLAN
 BOLLARD LIGHT AND LIGHT POST ENLARGED PLAN
 SCALE: 1"=10'

1
E2.0

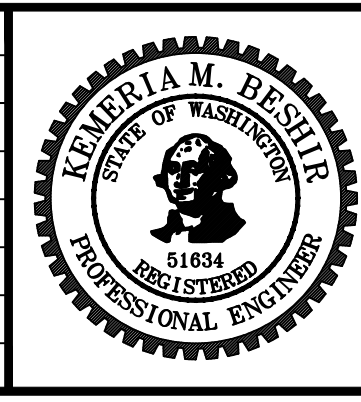
1"=10'-0"
 Scale 10 5 0 10 20 Feet

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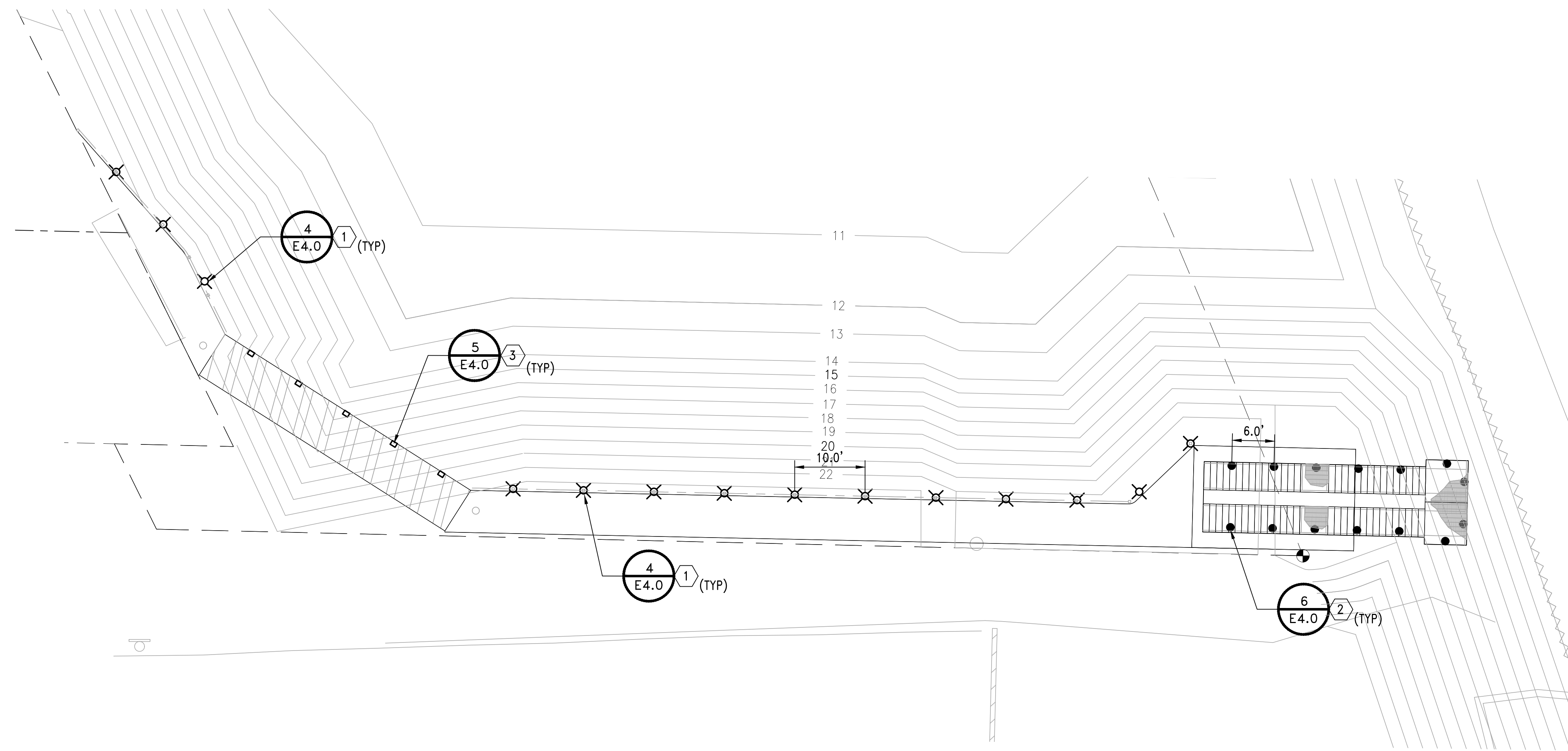
PROJECT MANAGER:
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 PROJECT ENGINEER:
JOANNA HINGLE
 DESIGN ENGINEER:
K. BESHIR
 DRAFTER:
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Port of Seattle MARITIME DIVISION
 PROJECT: **SITE 23 & 25 RESTORATION**
 SHEET TITLE: **ELECTRICAL LIGHTING ENLARGED PLAN (1 OF 2)**

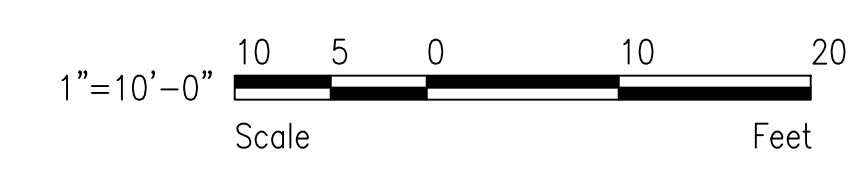
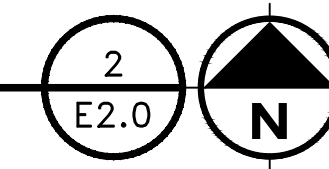
WORK PROJECT NO.	105563
CONSULTANT'S NO.	
PORT OF SEATTLE NO.	117-1201
E3.0	

KEYED NOTES:

- 1 PROVIDE SOLAR POWER LED BOLLARD FULLY SELF CONTAINED PER SPECIFICATION AS SHOWN ON THE PLAN.
- 2 PROVIDE SOLAR DOCK LIGHT MOUNTED ON RAIL, MARINE GRADE PER SPECIFICATION AS SHOWN ON THE PLAN.
- 3 PROVIDE SOLAR DOCK LIGHT MOUNTED ON DECK, MARINE GRADE PER SPECIFICATION AS SHOWN ON THE PLAN.



ENLARGED PLAN
 BOLLARD LIGHT & LIGHT POST ENLARGED PLAN
 SCALE: 1"=10'



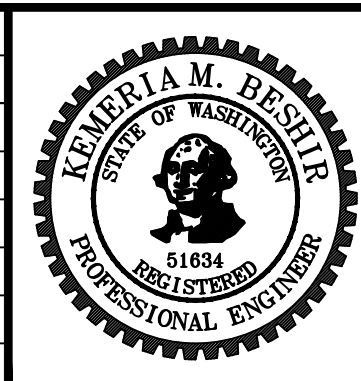
NOT FOR CONSTRUCTION

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PROJECT MANAGER:
 TICSON MACH
 PROJECT ENGINEER:
 JOANNA HINGLE
 DESIGN ENGINEER:
 K. BESHIR
 DRAFTER:
 A. OLSZEWSKI
 SCALE:
 AS SHOWN
 DATE:
 5/11/2017
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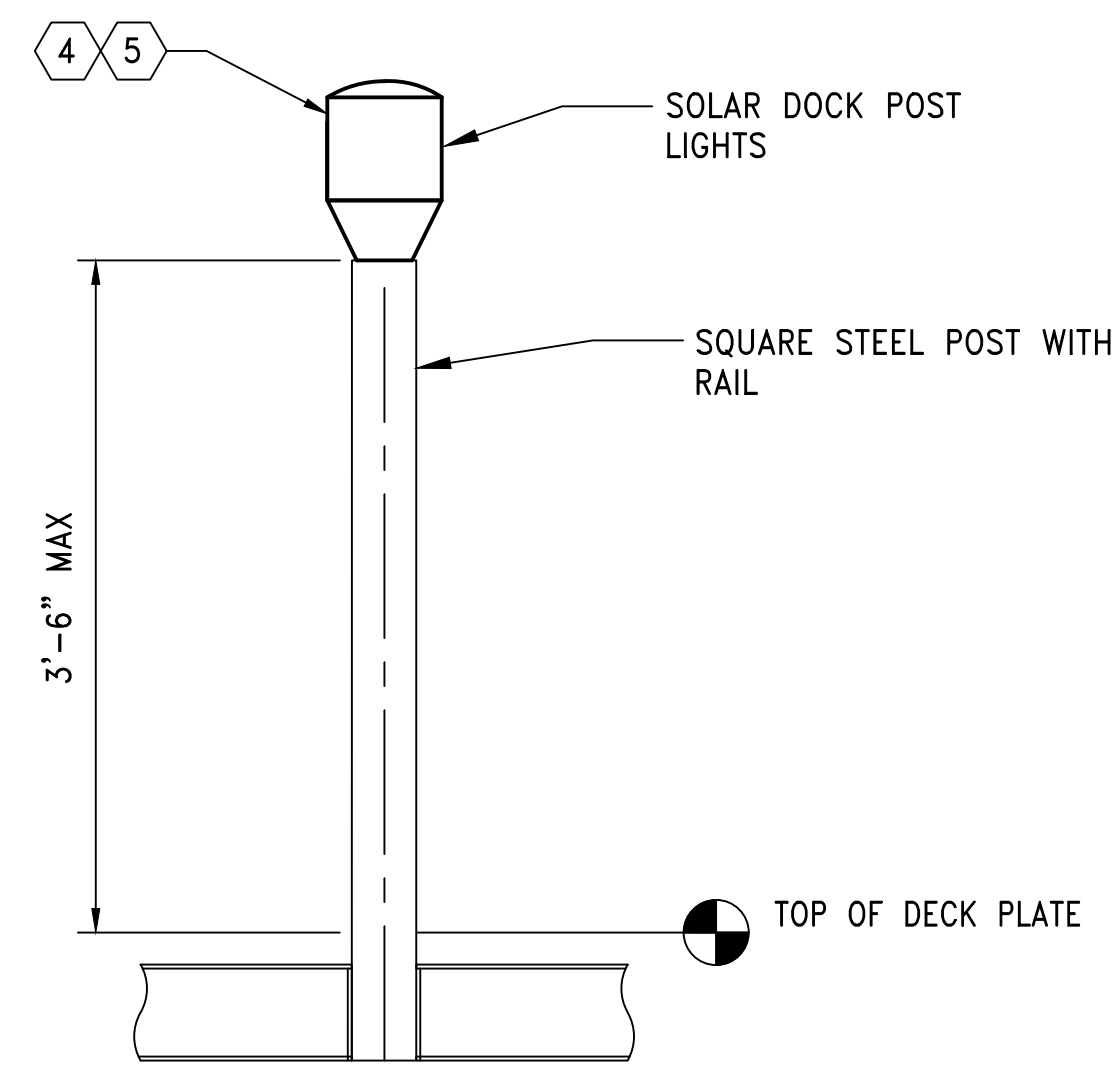
Port of Seattle MARITIME DIVISION

PROJECT: **SITE 23 & 25 RESTORATION**

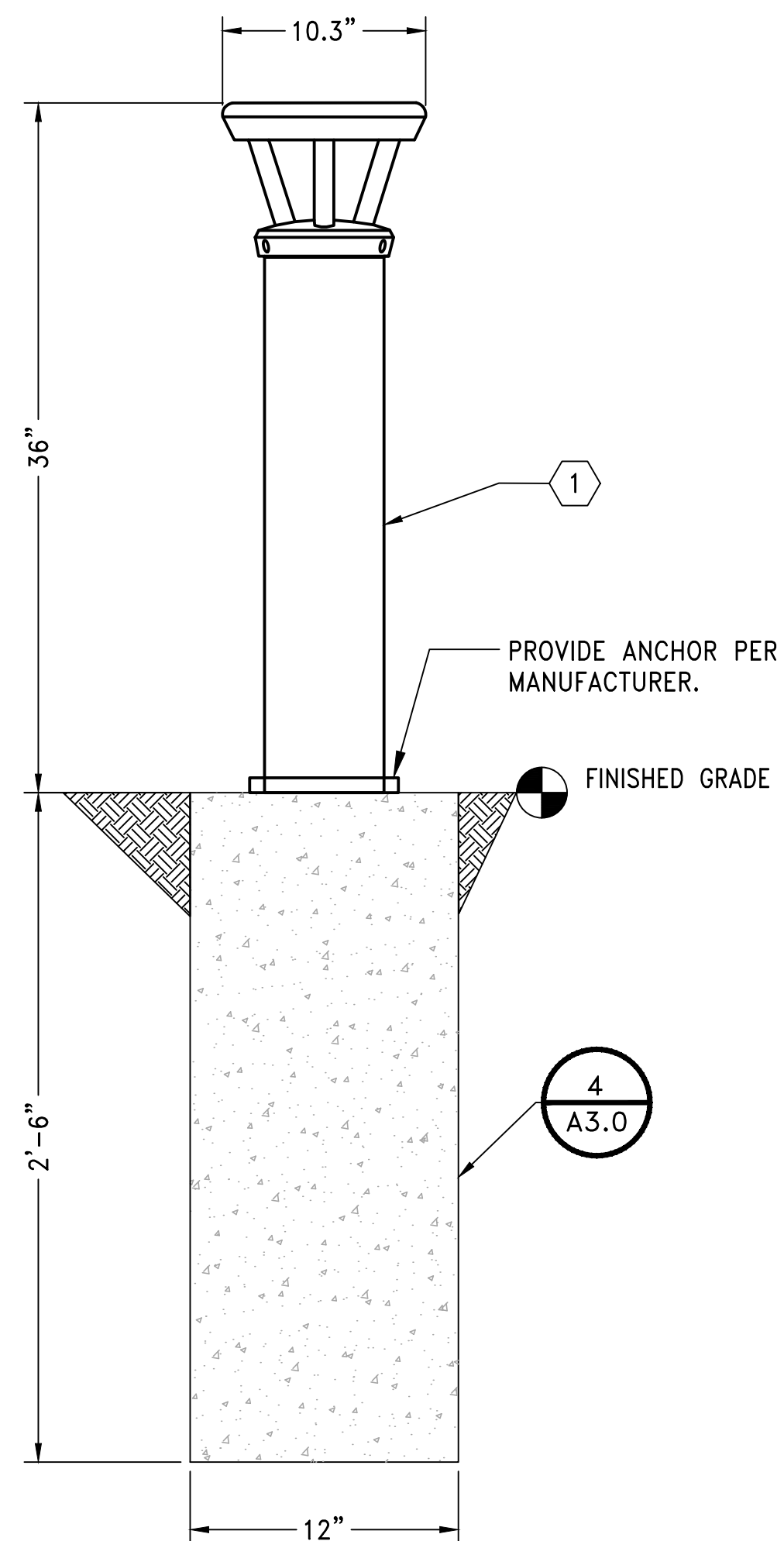
SHEET TITLE: **ELECTRICAL LIGHTING ENLARGED PLAN (2 OF 2)**

WORK PROJECT NO.	105563
CONSULTANT'S NO.	
PORT OF SEATTLE NO.	117-1201
E3.1	

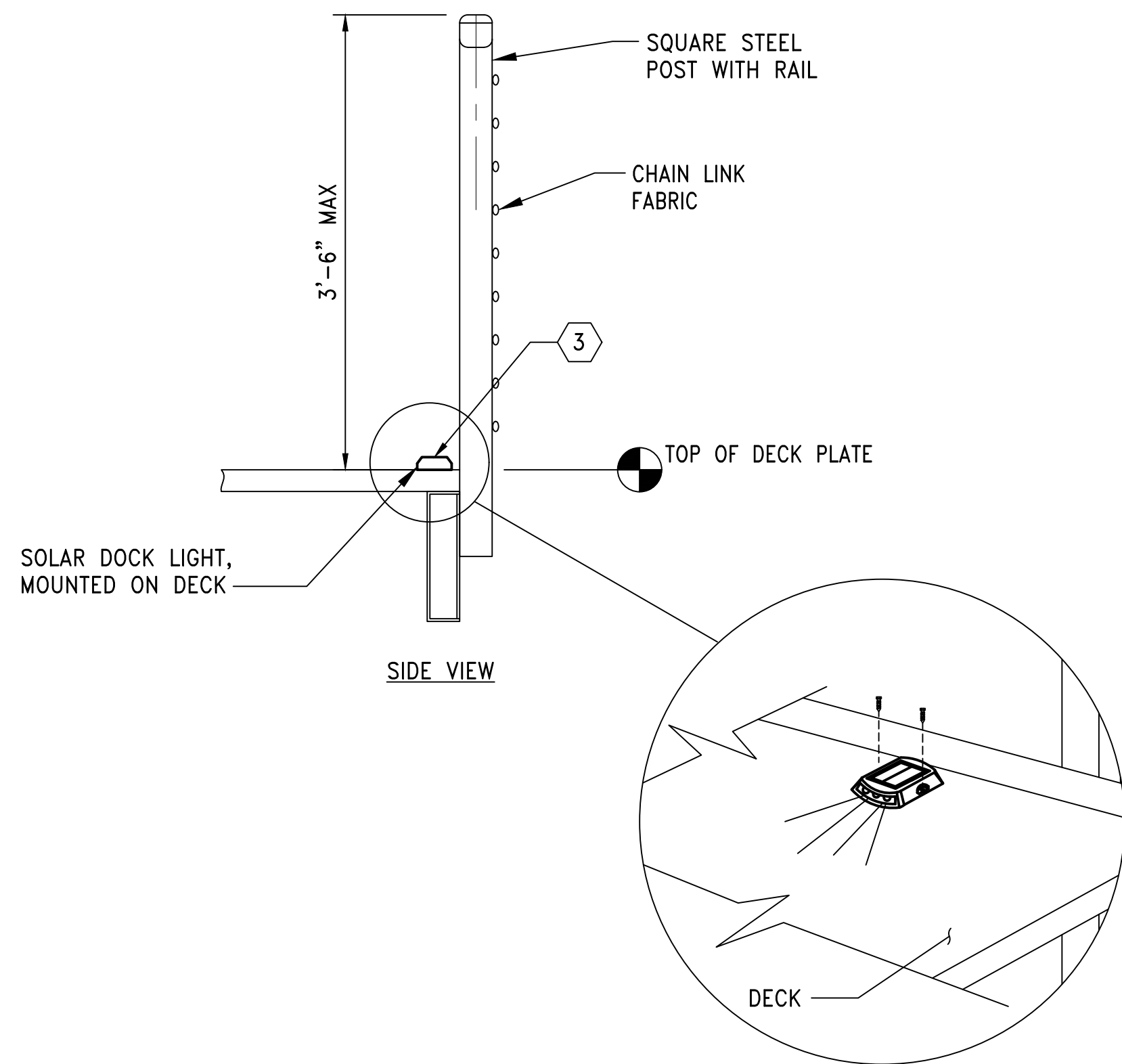
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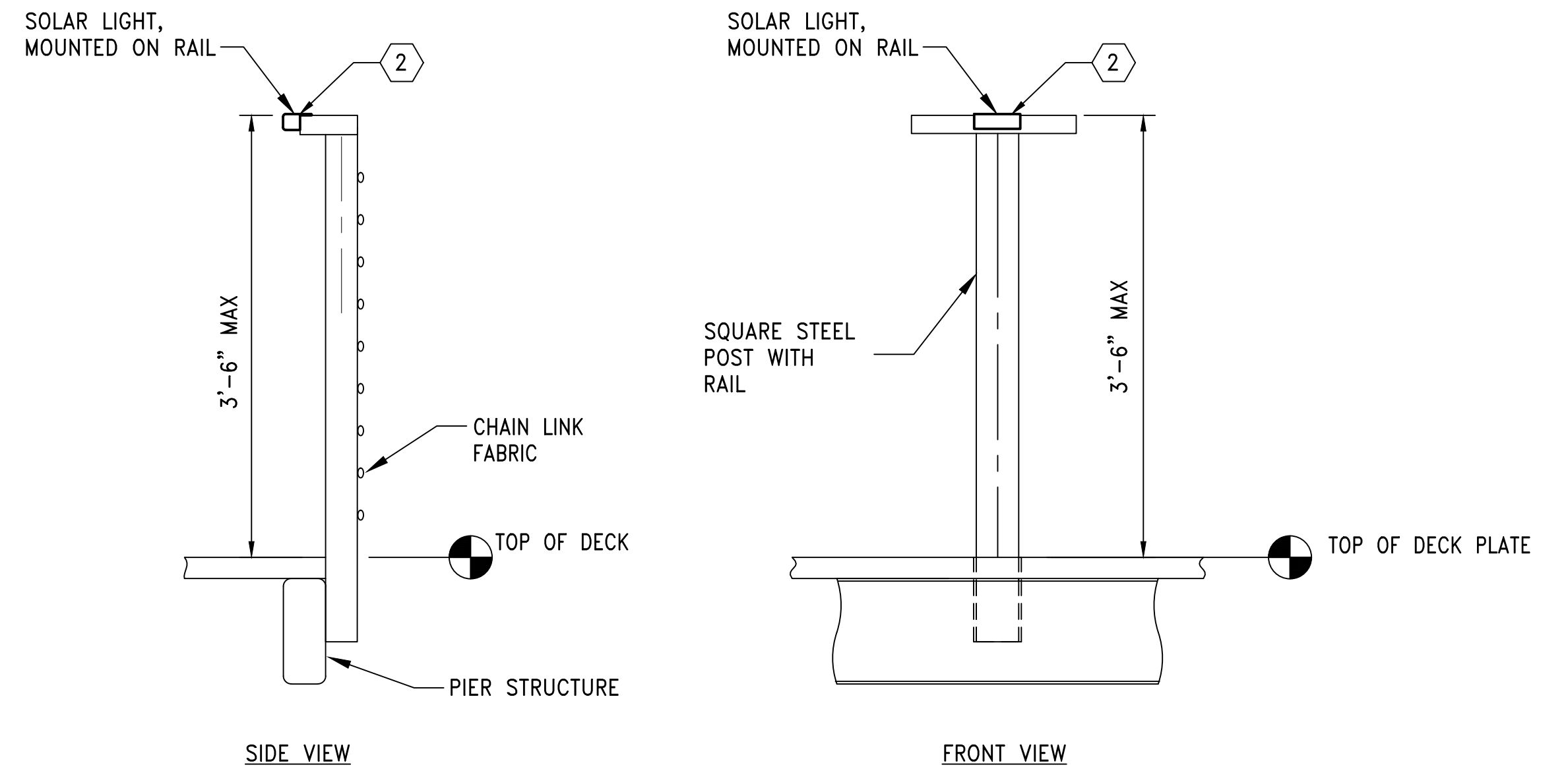
DETAIL
 SOLAR DOCK POST LIGHT
 SCALE: NTS



DETAIL
 BOLLARD POST WITH SOLAR LIGHT
 SCALE: NTS



DETAIL
 SOLAR DOCK LIGHT - BRIDGE
 SCALE: NTS



DETAIL
 SOLAR LIGHT RAIL
 SCALE: NTS

KEYED NOTES:

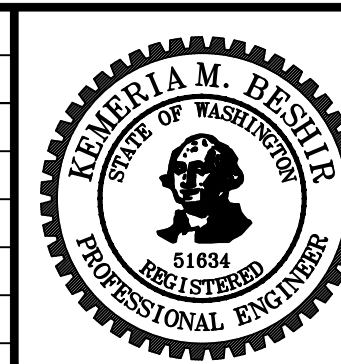
- 1 PROVIDE SOLAR POWER LED BOLLARD FULLY SELF CONTAINED PER SPECIFICATION AS SHOWN ON THE PLAN.
- 2 PROVIDE SOLAR DOCK LIGHT MOUNTED ON RAIL, MARINE GRADE PER SPECIFICATION AS SHOWN ON THE PLAN.
- 3 PROVIDE SOLAR DOCK POST LIGHT MOUNTED ON DECK, MARINE GRADE PER SPECIFICATION AS SHOWN ON THE PLAN.
- 4 PROVIDE SOLAR DOCK POST LIGHT, MARINE GRADE PER SPECIFICATION WITH GREEN COLOR LED AS SHOWN ON THE PLAN.
- 5 PROVIDE SOLAR DOCK POST LIGHT,, MARINE GRADE PER SPECIFICATION WITH RED COLOR LED AS SHOWN ON THE PLAN.

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 CONSTRUCTION

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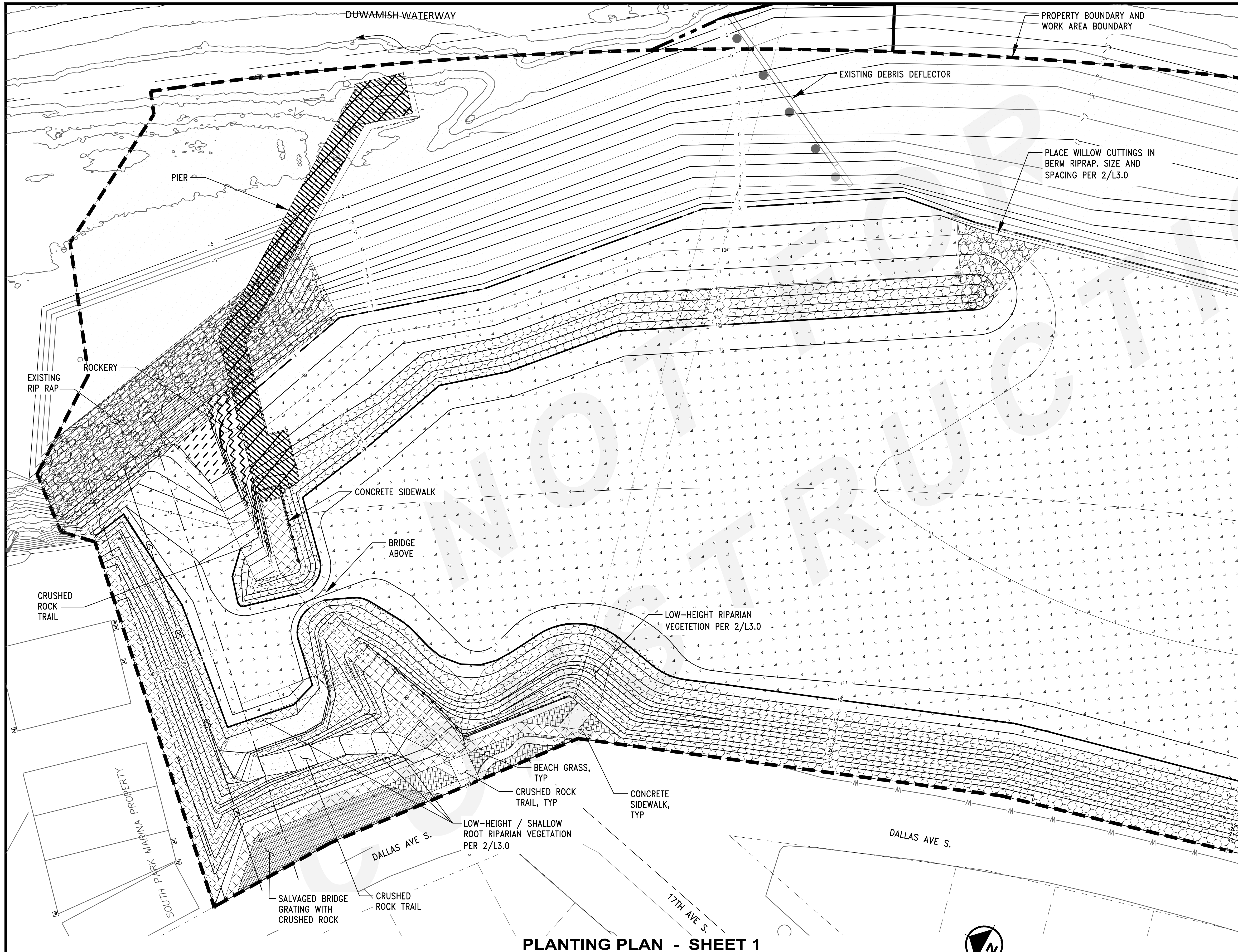
REVISIONS									
NO.	DATE	BY	DESCRIPTION	APP'D	NO.	DATE	BY	DESCRIPTION	APP'D
5	5/11/17		ISSUED FOR BID						



PROJECT MANAGER:
 TICSÓN MACH
 PROJECT ENGINEER:
 JOANNA HINGLE
 DESIGN ENGINEER:
 K. BESHIR
 DRAFTER:
 A. OLSZEWSKI
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Port of Seattle MARITIME DIVISION
 PROJECT: SITE 23 & 25 RESTORATION
 SHEET TITLE: ELECTRICAL DETAILS

WORK PROJECT NO.
 105563
 CONSULTANT'S NO.
 PORT OF SEATTLE NO.
 117-1201 **E4.0**

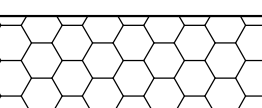
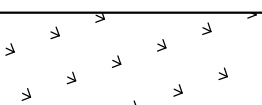
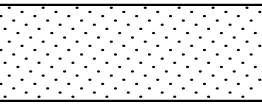


PLANTING NOTES:

1. AT ALL PLANTED AREAS, SEE 2/C7.2

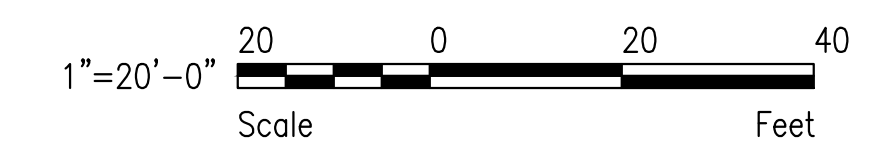
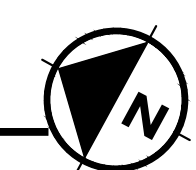
MATCH LINE SEE L2.1

PLANTING LEGEND:

-  RIPARIAN VEGETATION PER 3/L3.0
-  MARSH VEGETATION PER 1/L3.0
-  ENHANCED MUDFLAT

PLANTING PLAN - SHEET 1

SCALE: 1"=20'



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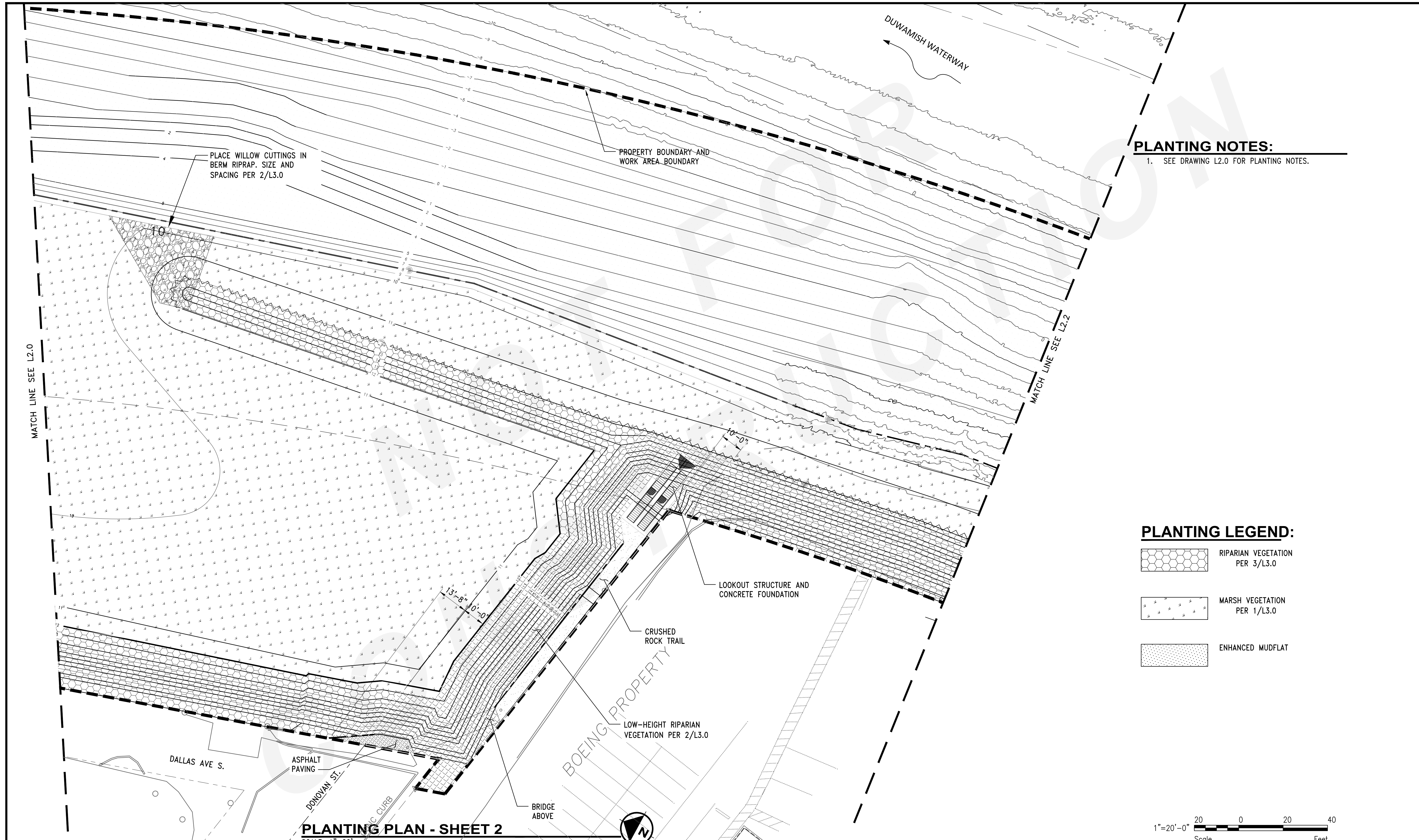
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1	5/11/17		ISSUED FOR BID						

PROJECT MANAGER:
TICSON MACH
PROJECT ENGINEER:
JOANNA HINGLE
DESIGN ENGINEER:
GEORGE BLOMBERG
DRAFTER:
KEN LANE
SCALE:
AS SHOWN
DATE:
5/11/2017
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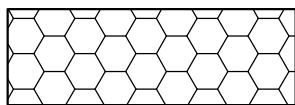
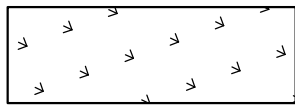
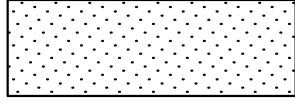
Port of Seattle MARITIME DIVISION
PROJECT: **SITE 23 & 25 RESTORATION**
SHEET TITLE: **PLANTING PLAN SHEET 1**

WORK PROJECT NO.
105563
CONSULTANT'S NO.
PORT OF SEATTLE NO.
117-1201 **L2.0**

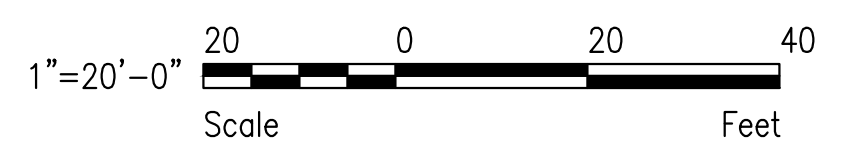


PLANTING NOTES:
 1. SEE DRAWING L2.0 FOR PLANTING NOTES.

PLANTING LEGEND:

-  RIPARIAN VEGETATION PER 3/L3.0
-  MARSH VEGETATION PER 1/L3.0
-  ENHANCED MUDFLAT

PLANTING PLAN - SHEET 2
 SCALE: 1"=20'



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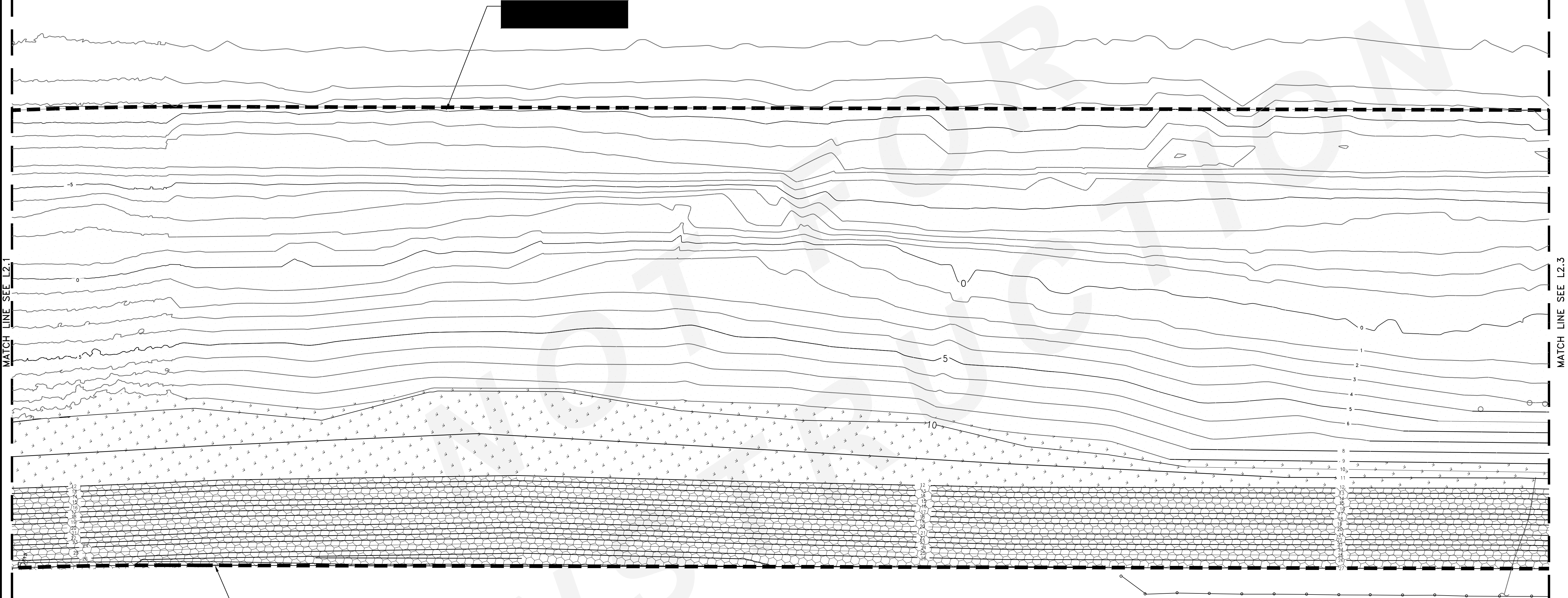
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1	5/11/17		ISSUED FOR BID						

PROJECT MANAGER:
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GEORGE BLOMBERG
 DRAFTER:
KEN LANE
 SCALE:
AS SHOWN
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Port of Seattle MARITIME DIVISION
 PROJECT: SITE 23 & 25 RESTORATION
 SHEET TITLE: **PLANTING PLAN SHEET 2**

WORK PROJECT NO.
105563
CONSULTANT'S NO.
PORT OF SEATTLE NO.
117-1201 L2.1

DUWAMISH WATERWAY



MATCH LINE SEE L2.1

MATCH LINE SEE L2.3

PROPERTY BOUNDARY AND WORK AREA BOUNDARY

PLANTING PLAN - SHEET 3

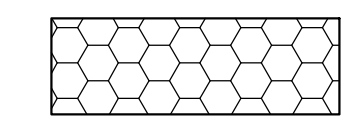
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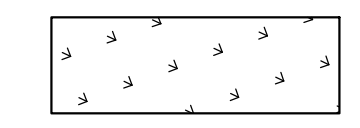
PLANTING NOTES:

- SEE DRAWING L2.0 FOR PLANTING NOTES.

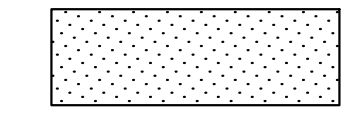
PLANTING LEGEND:



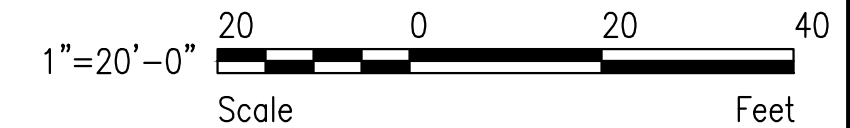
RIPARIAN VEGETATION
PER 3/L3.0



MARSH VEGETATION
PER 1/L3.0



ENHANCED MUDFLAT



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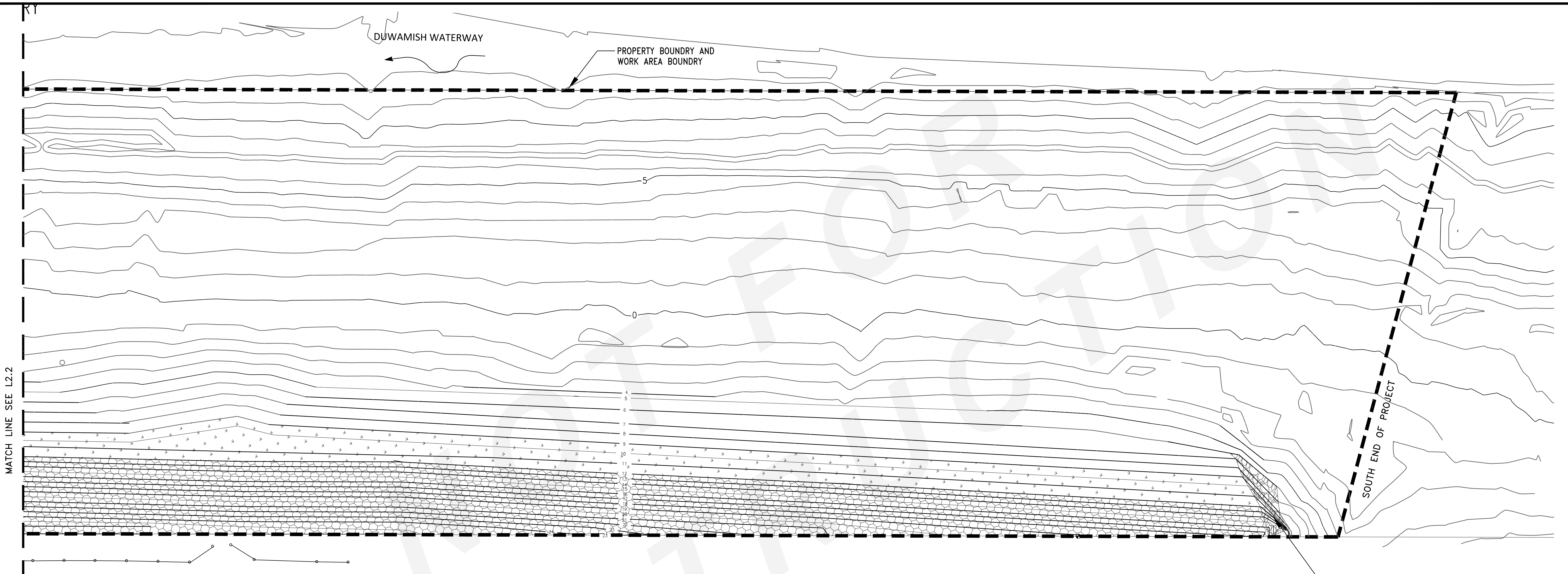
PROJECT MANAGER: TICSON MACH
PROJECT ENGINEER: JOANNA HINGLE
DESIGN ENGINEER: GEORGE BLOMBERG
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PROJECT: **SITE 23 & 25 RESTORATION**

SHEET TITLE: **PLANTING PLAN SHEET 3**

WORK PROJECT NO. 105563
CONSULTANT'S NO.
PORT OF SEATTLE NO. 117-1201 L2.2



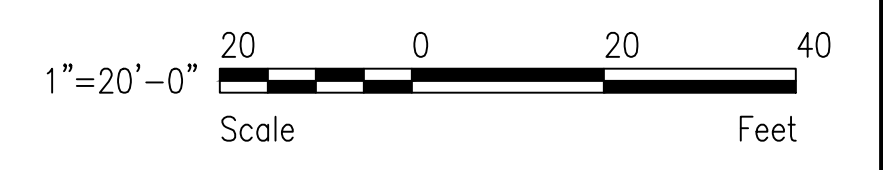
RIP-RAP, PLANT WITH WILLOW CUTTINGS, SIZE AND SPACING PER 2/C3.0.

PLANTING PLAN - SHEET 4
 SCALE: 1"=20'

- PLANTING NOTES:**
- SHEET DRAWING L2.0 FOR PLANTING NOTES.

PLANTING LEGEND:

- RIPARIAN VEGETATION PER 3/L3.0
- MARSH VEGETATION PER 1/L3.0
- ENHANCED MUDFLAT



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PROJECT ENGINEER: JOANNA HINGLE
DESIGN ENGINEER: GEORGE BLOMBERG
DRAFTER: KEN LANE
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 PROJECT: **SITE 23 & 25 RESTORATION**
 SHEET TITLE: **PLANTING PLAN SHEET 4**

WORK PROJECT NO. 105563
CONSULTANT'S NO.
PORT OF SEATTLE NO. 117-1201 L2.3

NATIVE MARSH VEGETATION: PLACED BETWEEN APPROXIMATELY PLUS NINE FEET AND PLUS 12 FEET MLLW AS SMALL ROOT MASS PLUGS (FOUR INCHES SQUARE) OR PREPARED, TWO TO FOUR STEM PLUGS. PLANTINGS WILL BE AT TWO FOOT CENTERS.

- LYNGBY'S SEDGE (CAREX LYNGBEI)
- BALTIC RUSH (JUNCUS BALTICUS)
- SOFT RUSH (JUNCUS EFFUSUS)
- HARD STEM BULRUSH (SCIRPUS ACUTUS)
- SALTGRASS (DISTICHLIS SPICATA)
- TUFTED HAIR GRASS (DESCHAMPSIA CESPITOSA)
- PACIFIC SILVERWEED (POTENTILLA PACIFICA)
- PUGET SOUND BEACH GRASS (LEYMUS MOLLIS)

SUBSTRATE PREPARATION: APPROXIMATELY FOUR INCHES OF THE FOLLOWING MIXTURE WILL BE PLACED AS A CONTINUOUS SUBSTRATE COVER THROUGHOUT THE NATIVE MARSH PLANTING AREA. FIFTY PERCENT TOPSOIL AND 50 PERCENT COMPOST. THE COMBINED SOIL WILL BE MIXED 3:1 WITH COARSE SAND.

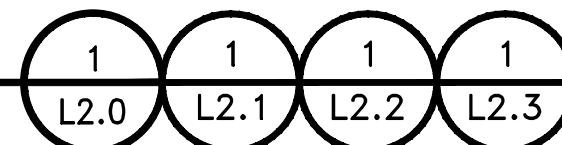
REFER TO DETAIL 1, L3.1, FOR PLANTING REQUIREMENTS, TYPICAL MARSH STEM PLUG AND SMALL ROOT MASS PLANTING

NATIVE MARSH PLANT ACQUISITION:

	NUMBER OF MARSH PLUGS	NUMBER OF SMALL ROOT MASS PLUGS
LYNGBY'S SEDGE (CAREX LYNGBEI)	4500	500
BALTIC RUSH (JUNCUS BALTICUS)	1350	150
SOFT RUSH (JUNCUS EFFUSUS)	1350	150
HARD STEM BULRUSH (SCIRPUS ACUTUS)	900	100
SALTGRASS (DISTICHLIS SPICATA)	900	
TUFTED HAIR GRASS (DESCHAMPSIA CESPITOSA)	400	
PACIFIC SILVERWEED (POTENTILLA PACIFICA)	400	
PUGET SOUND BEACH GRASS (LEYMUS MOLLIS)	400	

DETAIL

NATIVE MARSH VEGETATION



TYPE ONE--LOW GROWING NATIVE RIPARIAN VEGETATION: PLACED, BETWEEN TOP-OF-BANK (PROPERTY LINE) AND APPROXIMATELY PLUS 12 FEET MLLW, USING COMBINATION OF BARE ROOT STOCK, SMALL CONTAINERS AND CUTTINGS.

SHRUBS, HERBACEOUS PERENNIALS, AND GROUND COVER:

- SNOWBERRY (SUMPHORICARPOS ALBUS)
- NOOTKA ROSE (ROSA NUTKANA)
- RED FLOWERING CURRANT (RIBES SANGUINIUM)
- CEANOTHUS, RED STEM (CENOTHUS SANGUINEUS)
- CASCARA (RHAMNUS PURSHIANA)
- MOCK ORANGE (PHILADELPHUS LEWISI)
- RED OSIER DOGWOOD (CORNUS STOLONIFERA)
- NINEBARK, PACIFIC (PHYSOCARPUS CAPITATUS)
- OCEANSPRAY (HOLODISCUS DISCOLOR)
- SERVICEBERRY (ALMELANCHIER ALNIFOLIA)
- BEACH STRAWBERRY (FRAGARIA CHILOESIS)

NOTE: SHRUBS PLACED AS BARE ROOT STOCK, ONE TO TWO YEARS-OLD, 12 TO 18 INCHES LONG. GROUND COVER MAY BE IN ONE QUART CONTAINERS. PLANTINGS WILL BE THREE FEET ON CENTER

TREES (CONIFEROUS AND DECIDUOUS): USING COMBINATION OF BARE ROOT STOCK AND CUTTINGS.

- MADRONA (ARBUTUS MENZIESII)
- PAPER BIRCH (BETULA PAPYRIFERA)
- HOOKER AND SITKA WILLOW (SALIX HOOKERIANA AND STICHENSIS)

NOTE: TREES WITH THE EXCEPTION OF HOOKER AND SITKA WILLOW, WILL BE TWO YEARS-OLD, BARE ROOT STOCK, 12 INCHES LONG. WILLOW PLANTING WILL BE CUTTINGS, 36 INCHES IN LENGTH. CONIFEROUS TREES WILL BE PLACED AT FIVE TO EIGHT FEET CENTERS. WILLOW CUTTINGS WILL BE PLACED IN THICKET ARRANGEMENTS, ONE AND ONE-HALF TO ONE FOOT CENTERS.

SUBSTRATE PREPARATION: APPROXIMATELY SIX TO 10 INCHES OF THE FOLLOWING MIXTURE WILL BE PLACED AS A CONTINUOUS SLOPE COVER THROUGHOUT THE NATIVE RIPARIAN PLANTING AREA. FIFTY PERCENT TOPSOIL AND 50 PERCENT COMPOST. THE COMBINED SOIL WILL BE COVERED THROUGHOUT WITH WOVEN PLANT FIBER/COIR MAT, STAKED IN POSITION. APPROXIMATELY SIX INCHES SHREDDED WOOD/GREEN MULCH WILL BE PLACED THROUGHOUT, ABOVE PLANT FIBER EROSION MAT COVER. ALL PLANTINGS WILL BE INSERTED THROUGH MULCH AND PLANT FIBER MAT COVER.

REFER TO DETAIL 2, L3.1, FOR PLANTING REQUIREMENTS, TYPICAL BARE ROOT SHRUB AND TREE PLANTING

LOW GROWING NATIVE RIPARIAN PLANT ACQUISITION

SHRUBS:

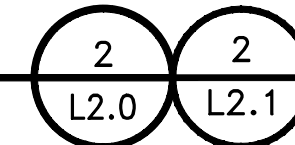
	NUMBER OF BARE ROOT SHRUBS
SNOWBERRY (SUMPHORICARPOS ALBUS)	115
NOOTKA ROSE (ROSA NUTKANA)	40
RED FLOWERING CURRANT (RIBES SANGUINIUM)	75
CEANOTHUS, RED STEM (CENOTHUS SANGUINEUS)	115
CASCARA (RHAMNUS PURSHIANA)	40
MOCK ORANGE (PHILADELPHUS LEWISI)	115
RED OSIER DOGWOOD (CORNUS STOLONIFERA)	40
NINEBARK, PACIFIC (PHYSOCARPUS CAPITATUS)	40
OCEANSPRAY (HOLODISCUS DISCOLOR)	115
SERVICEBERRY (ALMELANCHIER ALNIFOLIA)	40
BEACH STRAWBERRY (FRAGARIA CHILOESIS)	40

TREES

	NUMBER OF BARE ROOT TREES
MADRONA (ARBUTUS MENZIESII)	45
PAPER BIRCH (BETULA PAPYRIFERA)	55
HOOKER AND SITKA WILLOW (SALIX HOOKERIANA AND STICHENSIS)	400 (STAKES)

DETAIL

TYPE ONE RIPARIAN



TYPE TWO--NATIVE RIPARIAN VEGETATION: PLACED, BETWEEN TOP-OF-BANK (PROPERTY LINE) AND APPROXIMATELY PLUS 12 FEET MLLW, USING COMBINATION OF BARE ROOT STOCK, SMALL CONTAINERS AND CUTTINGS.

SHRUBS, HERBACEOUS PERENNIALS, AND GROUND COVER:

- SNOWBERRY (SUMPHORICARPOS ALBUS)
- NOOTKA ROSE (ROSA NUTKANA)
- RED FLOWERING CURRANT (RIBES SANGUINIUM)
- RED OSIER DOGWOOD (CORNUS STOLONIFERA)
- NINEBARK, PACIFIC (PHYSOCARPUS CAPITATUS)
- SERVICEBERRY (ALMELANCHIER ALNIFOLIA)
- BEACH STRAWBERRY (FRAGARIA CHILOESIS)

NOTE: SHRUBS PLACED AS BARE ROOT STOCK, ONE TO TWO YEARS-OLD, 12 TO 18 INCHES LONG. GROUND COVER MAY BE IN ONE QUART CONTAINERS. PLANTINGS WILL BE THREE FEET ON CENTER.

TREES (CONIFEROUS AND DECIDUOUS): USING COMBINATION OF BARE ROOT STOCK AND CUTTINGS.

- DOUGLAS FIR (PSEUDOSUGA MENZIESII)
- WESTERN RED CEDAR (THUJA PLICATA)
- RED ALDER (ALNUS RUBA)
- BLACK COTTONWOOD (POPULUS TRICHOCARPA)
- MADRONA (ARBUTUS MENZIESII)
- PAPER BIRCH (BETULA PAPYRIFERA)
- OREGON ASH (FRAXINUS LATIFOLIA)
- BIG LEAF MAPLE (ACER MACROPHYLLUM)
- HOOKER AND SITKA WILLOW (SALIX HOOKERIANA AND STICHENSIS)

NOTE: TREES WITH THE EXCEPTION OF HOOKER AND SITKA WILLOW, WILL BE TWO YEARS-OLD, BARE ROOT STOCK, 12 INCHES LONG. WILLOW PLANTING WILL BE CUTTINGS, 36 INCHES IN LENGTH. CONIFEROUS TREES WILL BE PLACED AT FIVE TO EIGHT FEET CENTERS. WILLOW CUTTINGS WILL BE PLACED IN THICKET ARRANGEMENTS, ONE AND ONE-HALF TO ONE FOOT CENTERS.

SUBSTRATE PREPARATION: APPROXIMATELY SIX TO 10 INCHES OF THE FOLLOWING MIXTURE WILL BE PLACED AS CONTINUOUS SLOPE COVER THROUGHOUT THE NATIVE RIPARIAN PLANTING AREA. FIFTY PERCENT TOPSOIL AND 50 PERCENT COMPOST. THE COMBINED SOIL WILL BE COVERED THROUGHOUT WITH WOVEN PLANT FIBER/COIR MAT, STAKED IN POSITION. APPROXIMATELY SIX INCHES SHREDDED WOOD/GREEN MULCH WILL BE PLACED THROUGHOUT, ABOVE PLANT FIBER EROSION MAT COVER. ALL PLANTINGS WILL BE INSERTED THROUGH MULCH AND PLANT FIBER MAT COVER.

REFER TO DETAIL 2, L3.1, FOR PLANTING REQUIREMENTS, TYPICAL BARE ROOT SHRUB AND TREE PLANTING

NATIVE RIPARIAN PLANT ACQUISITION:

SHRUBS

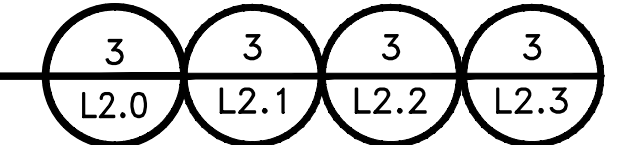
	NUMBER OF BARE ROOT SHRUBS
SNOWBERRY (SUMPHORICARPOS ALBUS)	1525
NOOTKA ROSE (ROSA NUTKANA)	2250
RED FLOWERING CURRANT (RIBES SANGUINIUM)	1525
RED OSIER DOGWOOD (CORNUS STOLONIFERA)	1525
NINEBARK, PACIFIC (PHYSOCARPUS CAPITATUS)	1000
SERVICEBERRY (ALMELANCHIER ALNIFOLIA)	1525
BEACH STRAWBERRY (FRAGARIA CHILOESIS)	525

TREES

	NUMBER OF BARE ROOT TREES
DOUGLAS FIR (PSEUDOSUGA MENZIESII)	735
WESTERN RED CEDAR (THUJA PLICATA)	550
RED ALDER (ALNUS RUBA)	735
BLACK COTTONWOOD (POPULUS TRICHOCARPA)	735
MADRONA (ARBUTUS MENZIESII)	175
PAPER BIRCH (BETULA PAPYRIFERA)	550
OREGON ASH (FRAXINUS LATIFOLIA)	175
BIG LEAF MAPLE (ACER MACROPHYLLUM)	175
HOOKER AND SITKA WILLOW (SALIX HOOKERIANA AND STICHENSIS)	2200 (AS STAKES)

DETAIL

TYPE TWO RIPARIAN



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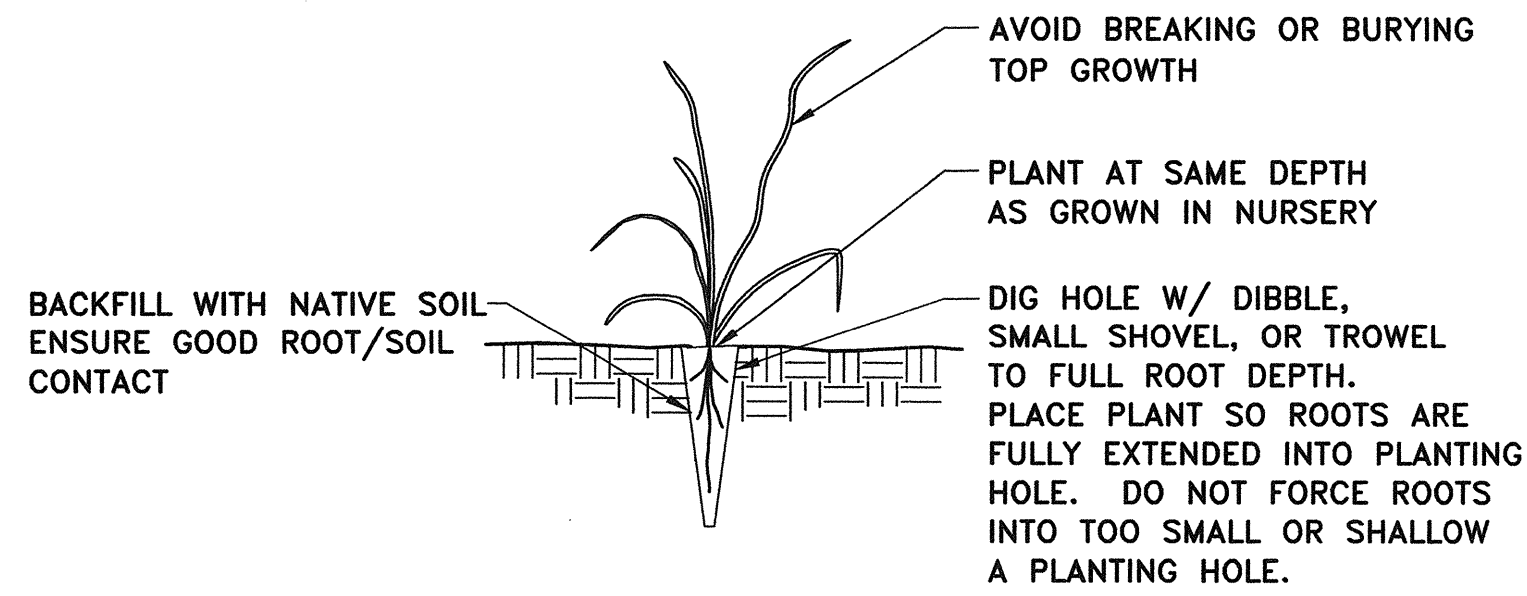
PROJECT ENGR./ARCH:
DESIGNER:
DRAWN BY:
SCALE:
DATE:
CHECKED BY:
CHECKED/APPROVED BY:

REVISIONS							
NO.	DATE	BY	DESCRIPTION	APP'D	NO.	DATE	BY
	5/11/17		ISSUED FOR BID				

PROJECT MANAGER: TICSON MACH
PROJECT ENGINEER: JOANNA HINGLE
DESIGN ENGINEER: GEORGE BLOMBERG
DRAFTER: KEN LANE
SCALE: AS SHOWN
DATE: 5/11/2017
CHECKED/APPROVED BY:

Port of Seattle MARITIME DIVISION
PROJECT: **SITE 23 & 25 RESTORATION**
SHEET TITLE: **PLANTING DETAILS - SHEET 1**

WORK PROJECT NO. 105563
CONSULTANT'S NO.
PORT OF SEATTLE NO.
117-1201 L3.0

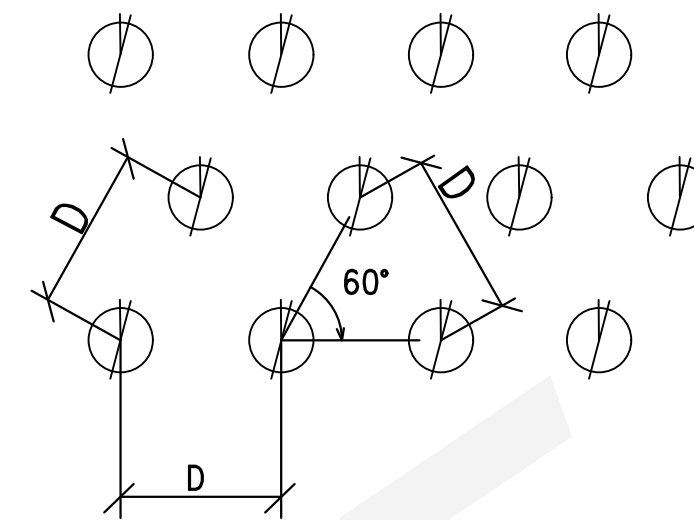


DETAIL

TYPICAL PLUG AND BARE ROOT/DIVISION PLANTING
SCALE: NONE

1

L3.0



DISTANCE (D), ON CENTER AS REQUIRED TO MEET PLANTS PER ACRE STANDARD

START FIRST ROW OF PLANTING AT 1/2 THE PERPENDICULAR SPACING BETWEEN ROWS

NOTE:
ALL SHRUB AND TREE SPACING SHALL BE EQUIDISTANT UNLESS OTHERWISE SPECIFIED

DETAIL

BARE ROOT SHRUB AND TREE SPACING
TYPICAL

2

L3.0

CALL 2 DAYS BEFORE YOU DIG
1-800-424-5555

PROJECT ENGR./ARCH:
DESIGNER:
DRAWN BY:
SCALE:
DATE:
CHECKED BY:
CHECKED/APPROVED BY:

REVISIONS									
NO.	DATE	BY	DESCRIPTION	APP'D	NO.	DATE	BY	DESCRIPTION	APP'D
	5/11/17		ISSUED FOR BID						

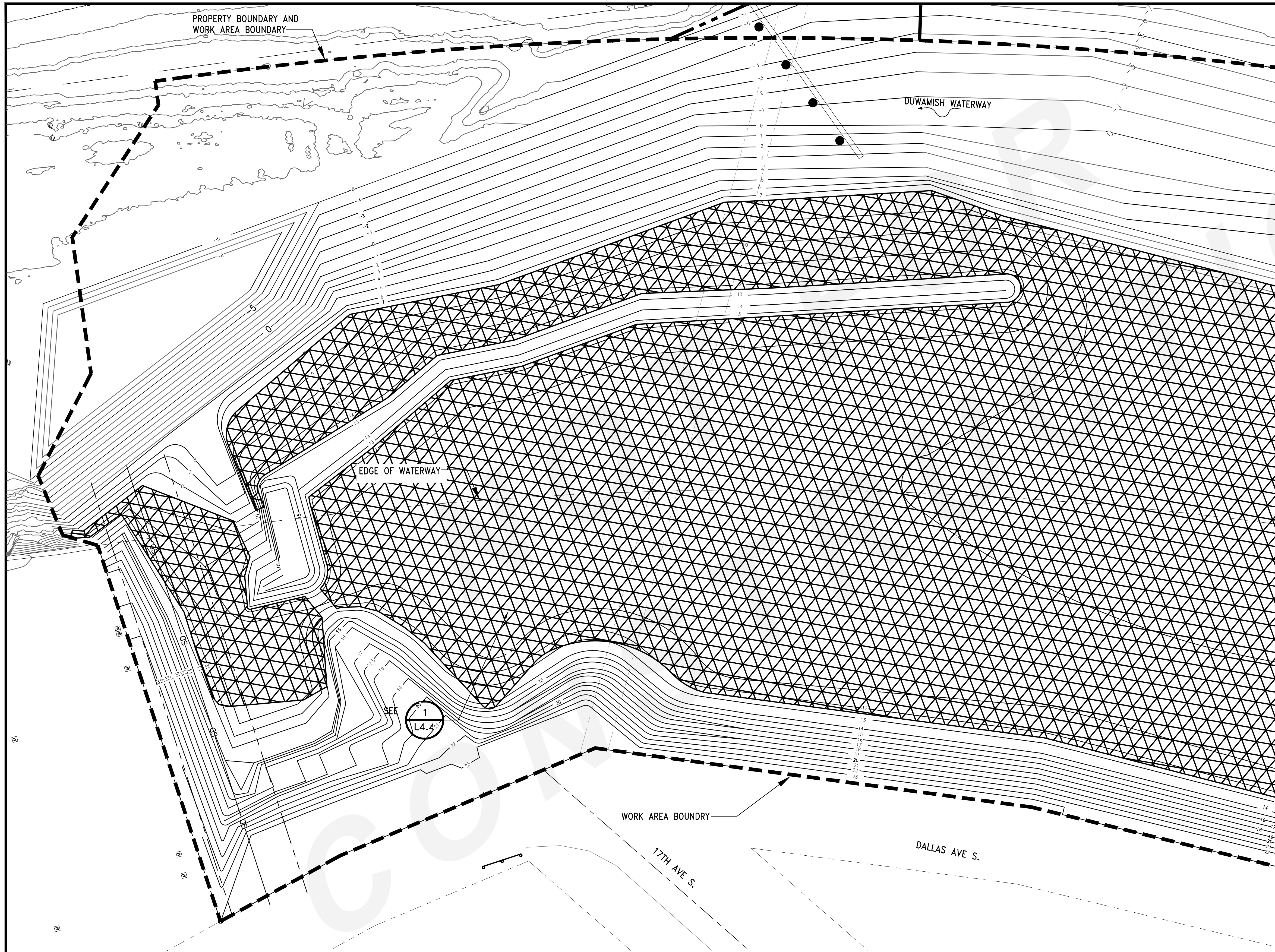
PROJECT MANAGER: TIGSON MACH
PROJECT ENGINEER: JOANNA HINGLE
DESIGN ENGINEER: GEORGE BLOWBERG
DRAWER: KEN LANE
SCALE: AS NOTED
DATE: 5/11/2017
CHECKED/APPROVED BY: NAME

Port of Seattle MARITIME DIVISION

PROJECT: SITE 23 & 25 RESTORATION

SHEET TITLE: PLANTING DETAILS - SHEET 2

WORK PROJECT NO. 105563
CONSULTANT'S NO.
PORT OF SEATTLE NO. 117-1201
L3.1



NOTES:

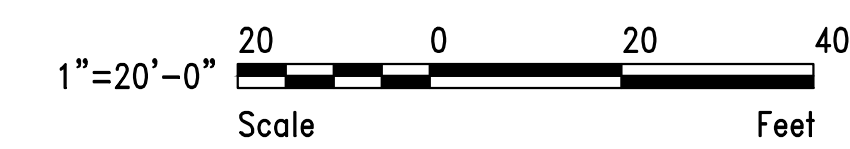
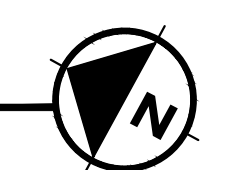
1. ENCLOSE ALL AREAS BETWEEN ELEVATION +8.0FT AND +12.5FT IN GOOSE EXCLUSION SYSTEM.

MATCH LINE SEE L4.1

LEGEND:

- PROPERTY BOUNDARY AND WORK AREA BOUNDARY
- GOOSE EXCLUSION AREA

GOOSE EXCLUSION PLAN
SCALE: 1"=20'



CALL 2 DAYS BEFORE YOU DIG
1-800-424-5555

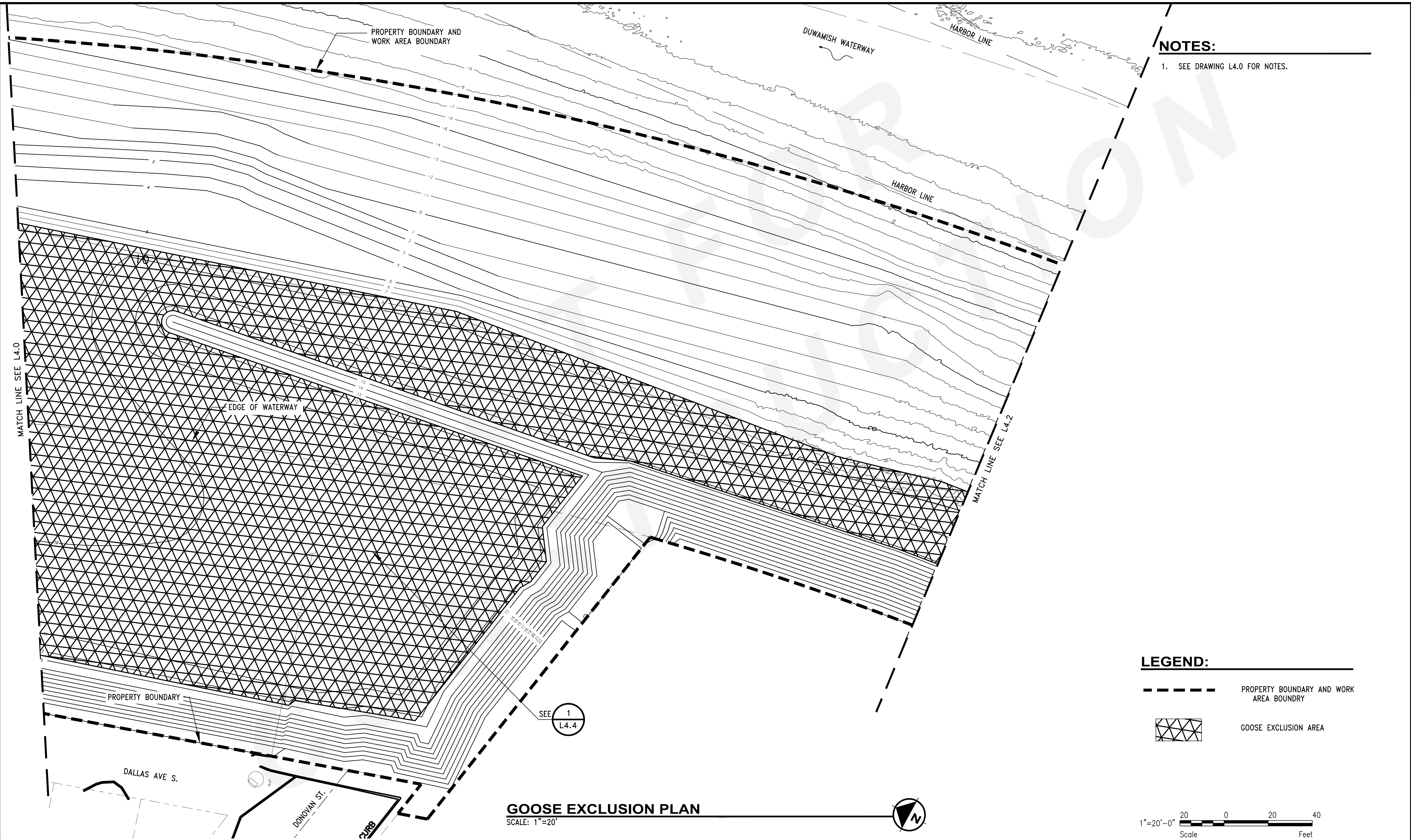
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DESIGNER:
DRAWN BY:
SCALE:
DATE:
CHECKED BY:
CHECKED/APPROVED BY:

REVISIONS									
NO.	DATE	BY	DESCRIPTION	APP'D	NO.	DATE	BY	DESCRIPTION	APP'D
1	5/11/17		ISSUED FOR BID						

PROJECT MANAGER:
TICSON MACH
PROJECT ENGINEER:
JOANNA HINGLE
DESIGN ENGINEER:
GEORGE BLOMBERG
DRAFTER:
KEN LANE
SCALE:
AS SHOWN
DATE:
5/11/2017
CHECKED/APPROVED BY:

Port of Seattle MARITIME DIVISION
PROJECT: **SITE 23 & 25 RESTORATION**
SHEET TITLE: **GOOSE EXCLUSION PLAN SHEET 1**

WORK PROJECT NO.
105563
CONSULTANT'S NO.
PORT OF SEATTLE NO.
117-1201 **L4.0**

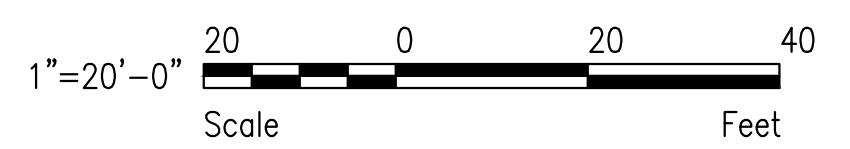


NOTES:
 1. SEE DRAWING L4.0 FOR NOTES.

LEGEND:

- PROPERTY BOUNDARY AND WORK AREA BOUNDARY
- [Hatched Box] GOOSE EXCLUSION AREA

GOOSE EXCLUSION PLAN
 SCALE: 1"=20'



CALL 2 DAYS BEFORE YOU DIG
 1-800-424-5555

PROJECT ENGR./ARCH:
 DESIGNER:
 DRAWN BY:
 SCALE:
 DATE:
 CHECKED BY:
 CHECKED/APPROVED BY:

REVISIONS									
NO.	DATE	BY	DESCRIPTION	APP'D	NO.	DATE	BY	DESCRIPTION	APP'D
1	5/11/17		ISSUED FOR BID						

PROJECT MANAGER:
 TICSÓN MACH
 PROJECT ENGINEER:
 JOANNA HINGLE
 DESIGN ENGINEER:
 GEORGE BLOMBERG
 DRAFTER:
 KEN LANE
 SCALE:
 AS SHOWN
 DATE:
 5/11/2017
 CHECKED/APPROVED BY:

Port of Seattle MARITIME DIVISION
 PROJECT: **SITE 23 & 25 RESTORATION**
 SHEET TITLE: **GOOSE EXCLUSION PLAN SHEET 2**

WORK PROJECT NO.
105563
 CONSULTANT'S NO.
 PORT OF SEATTLE NO.
 117-1201 **L4.1**

DUWAMISH WATERWAY

PROPERTY BOUNDARY AND
WORK AREA BOUNDARY

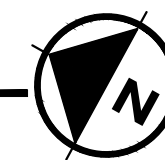
MATCH LINE SEE L4.1

MATCH LINE SEE L4.3

SEE 1
L4.4

PROPERTY BOUNDARY
AND WORK AREA BOUNDARY



GOOSE EXCLUSION PLAN
SCALE: 1"=20'

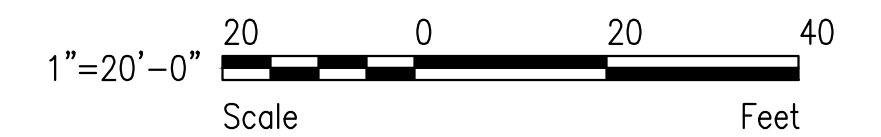


NOTES:

1. SEE DRAWING L4.0 FOR NOTES.

LEGEND:

-  PROPERTY BOUNDARY AND WORK AREA BOUNDARY
-  GOOSE EXCLUSION AREA



CALL 2 DAYS
BEFORE YOU DIG
1-800-424-5555

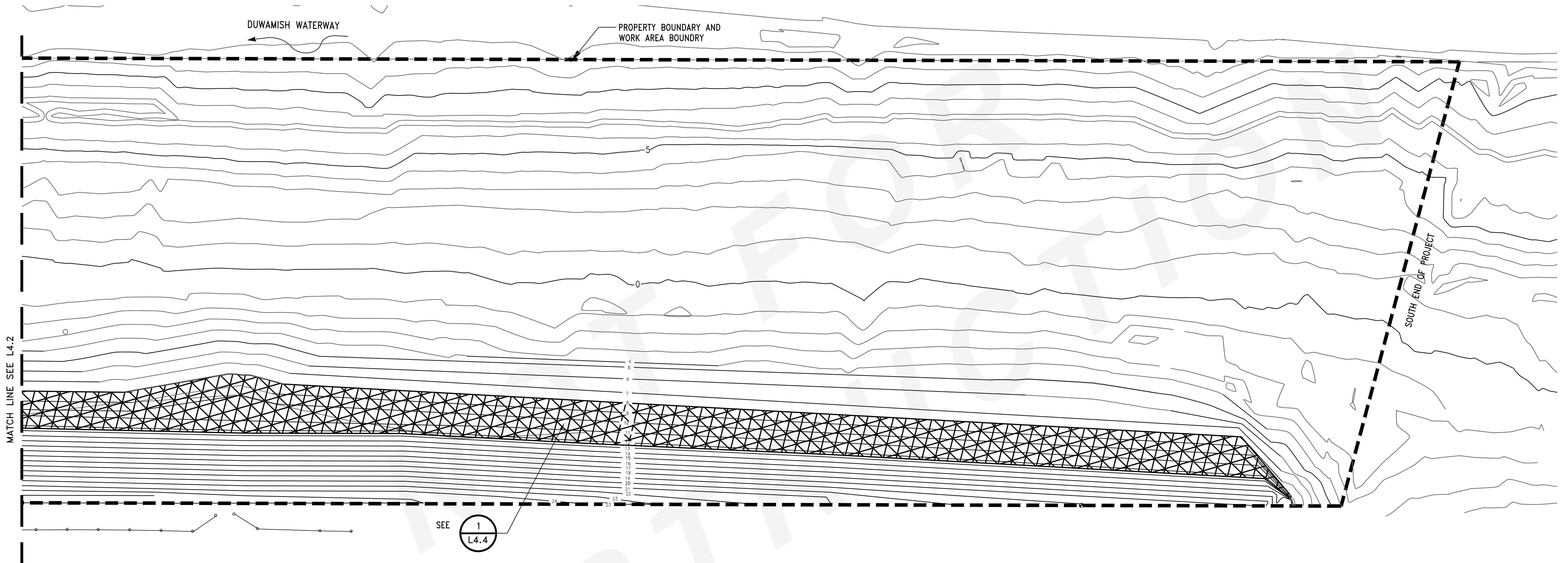
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DESIGNER:
DRAWN BY:
SCALE:
DATE:
CHECKED BY:
CHECKED/APPROVED BY:

REVISIONS							
NO.	DATE	BY	DESCRIPTION	APP'D	NO.	DATE	BY
1	5/11/17		ISSUED FOR BID				

PROJECT MANAGER:
TICSON MACH
PROJECT ENGINEER:
JOANNA HINGLE
DESIGN ENGINEER:
GEORGE BLOMBERG
DRAFTER:
KEN LANE
SCALE:
AS SHOWN
DATE:
5/11/2017
CHECKED/APPROVED BY:

Port of Seattle MARITIME DIVISION
PROJECT: **SITE 23 & 25 RESTORATION**
SHEET TITLE: **GOOSE EXCLUSION PLAN SHEET 3**

WORK PROJECT NO.
105563
CONSULTANT'S NO.
PORT OF SEATTLE NO.
117-1201 **L4.2**



GOOSE EXCLUSION PLAN
SCALE: 1"=20'

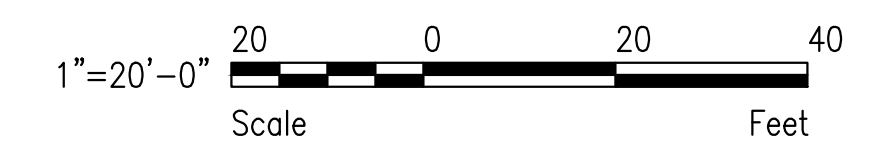


SHEET NOTES:

1. SHEET DRAWING L4.0 FOR NOTES.

LEGEND:

- PROPERTY BOUNDARY AND WORK AREA BOUNDRY
- GOOSE EXCLUSION AREA



CALL 2 DAYS
BEFORE YOU DIG
1-800-424-5555

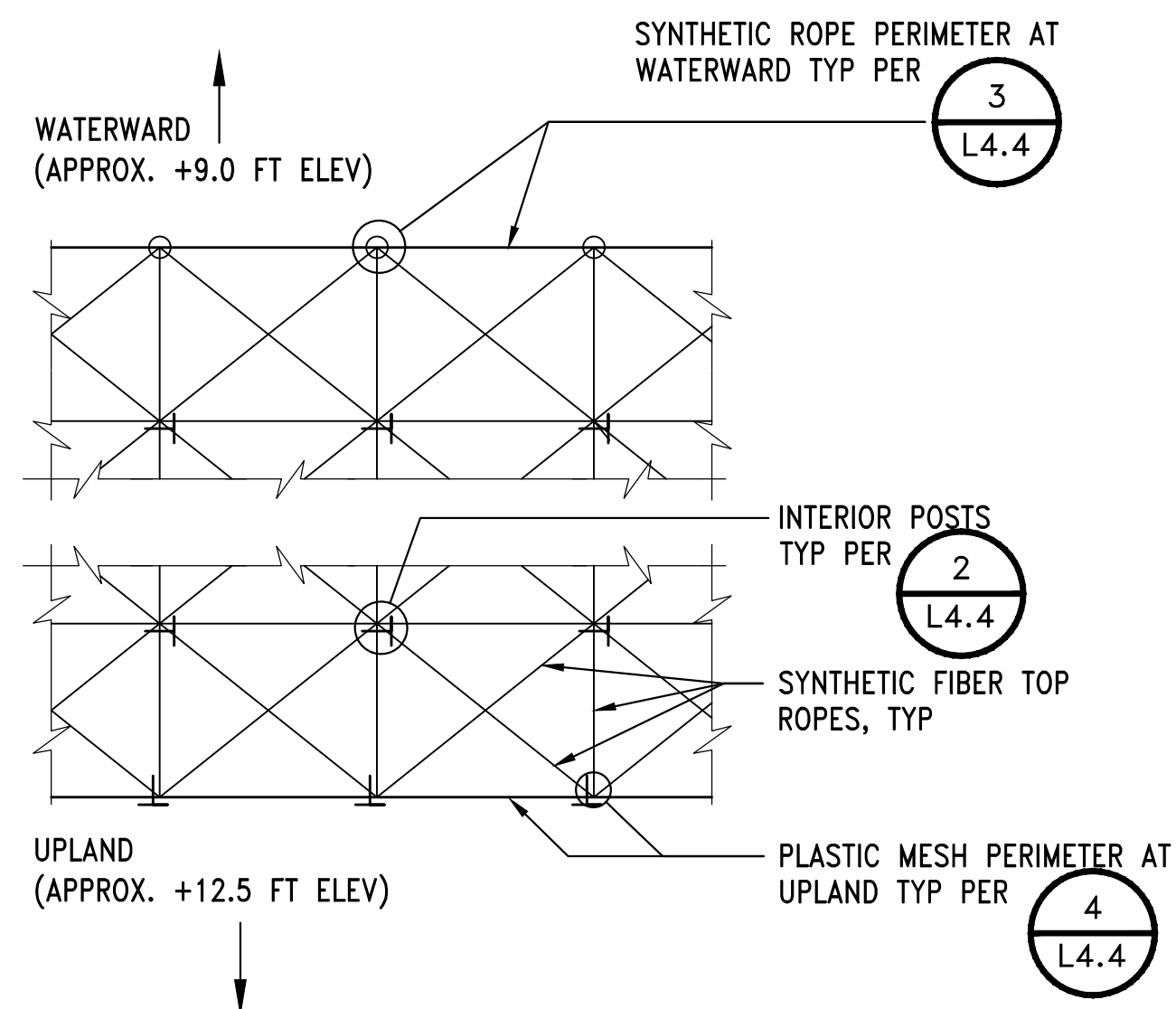
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DESIGNER:
DRAWN BY:
SCALE:
DATE:
CHECKED BY:
CHECKED/APPROVED BY:

REVISIONS							
NO.	DATE	BY	DESCRIPTION	APP'D	NO.	DATE	BY
1	5/11/17		ISSUED FOR BID				

PROJECT MANAGER:
TICSON MACH
PROJECT ENGINEER:
JOANNA HINGLE
DESIGN ENGINEER:
GEORGE BLOMBERG
DRAFTER:
KEN LANE
SCALE:
AS SHOWN
DATE:
5/11/2017
CHECKED/APPROVED BY:

Port of Seattle MARITIME DIVISION
PROJECT: **SITE 23 & 25 RESTORATION**
SHEET TITLE: **GOOSE EXCLUSION PLAN SHEET 4**

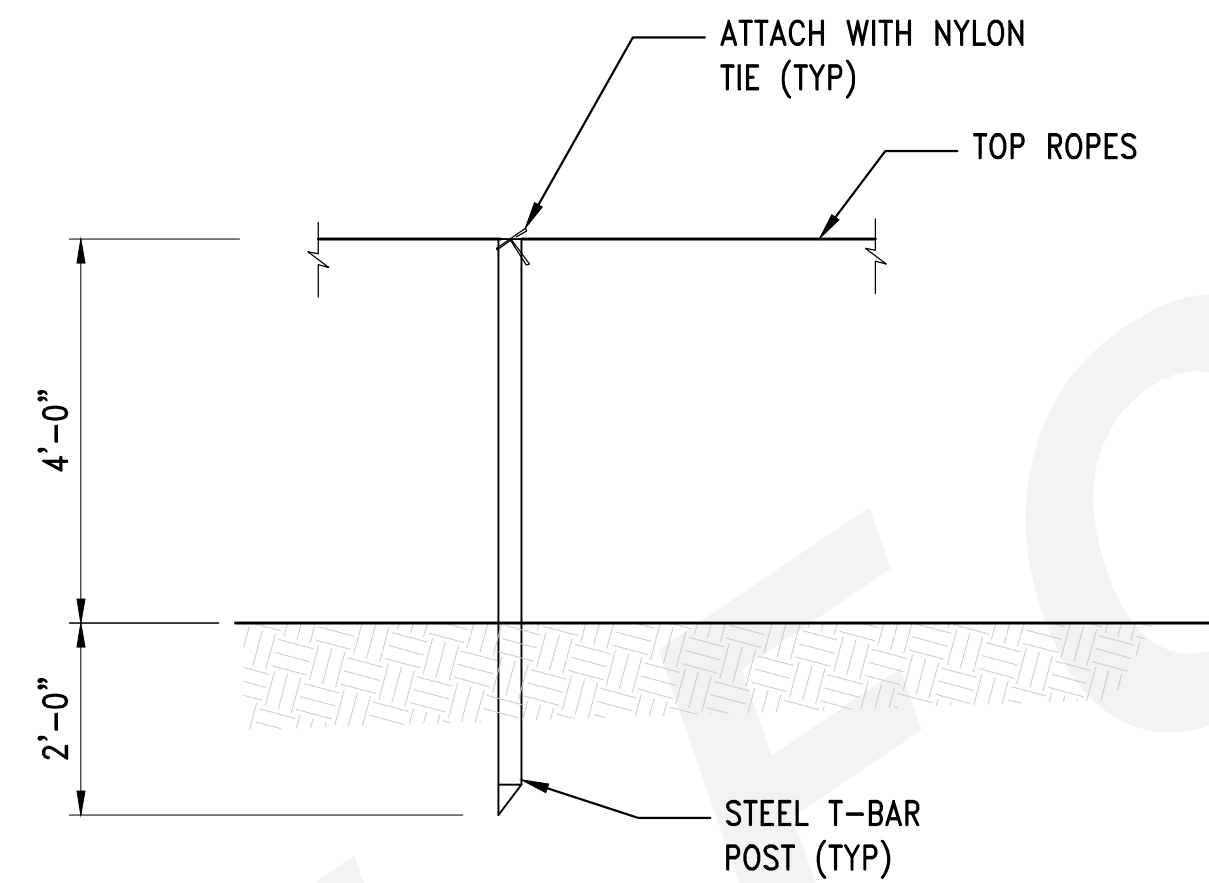
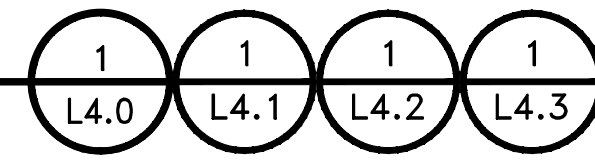
WORK PROJECT NO.
105563
CONSULTANT'S NO.
PORT OF SEATTLE NO.
117-1201 **L4.3**



- PERIMETER POSTS SHALL BE PLACED ON 10 TO 15-FOOT CENTERS.
- INTERIOR POSTS SHALL BE SPACED TO COMPLEMENT PERIMETER POST SPACING.
- ALL POSTS SHALL BE DRIVEN SO THAT THEY ARE TRUE AND STRAIGHT TO EXISTING GRADE.
- ROPES SHALL BE HUNG FROM THE PERIMETER POSTS TO THE INTERIOR POSTS AND ATTACHED WITH NYLON SELF-LOCKING TIES. ALLOW THE ROPES TO SAG UP TO 1 FOOT MAXIMUM.
- SIDE PERIMETERS ON SLOPES BETWEEN WATERWARD AND UPLAND PERIMETERS SHALL USE PLASTIC PERIMETER DETAIL 4/L4.4

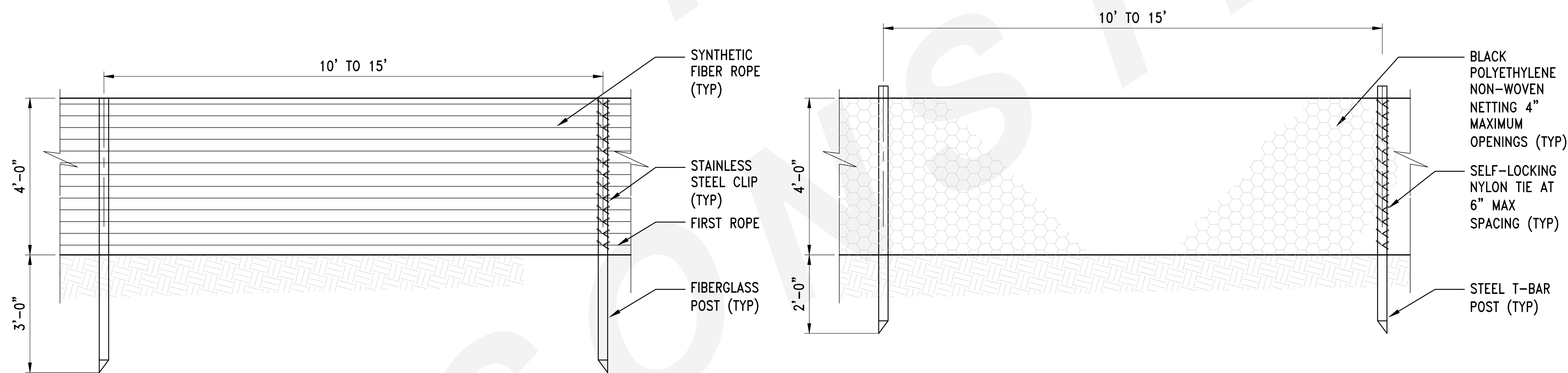
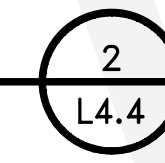
DETAIL

GOOSE EXCLUSION PARTIAL PLAN
SCALE: NTS



DETAIL

GOOSE EXCLUSION INTERIOR POST
SCALE: 1"=2'-0"



- FIRST ROPE SHALL BE A MAXIMUM OF 3" ABOVE GRADE.
- ROPES SHALL BE SPACED WITH AN EQUAL DISTANCE NO GREATER THAN 4 INCHES.
- ROPES WHICH CROSS OVER HEAD SHALL MEET AT OR SLIGHTLY ABOVE HIGHEST PERIMETER ROPE.
- ALONG THE PERIMETER, IT IS EXPECTED THAT THERE WILL BE SAG IN THE HORIZONTAL ROPE BETWEEN POSTS. MAINTAIN EQUAL DISTANCE BETWEEN ROPES.

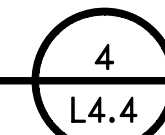
DETAIL

GOOSE EXCLUSION PERIMETER - SYNTHETIC ROPE
WATERWARD EDGES
SCALE: 1"=2'-0"



DETAIL

GOOSE EXCLUSION PERIMETER - PLASTIC MESH
UPLAND EDGES
SCALE: 1"=2'-0"



CALL 2 DAYS
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PROJECT ENGR./ARCH:
DESIGNER:
DRAWN BY:
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DATE:
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CHECKED/APPROVED BY:

REVISIONS									
NO.	DATE	BY	DESCRIPTION	APP'D	NO.	DATE	BY	DESCRIPTION	APP'D
1	5/11/17		ISSUED FOR BID						

PROJECT MANAGER: TICSON MACH
PROJECT ENGINEER: JOANNA HINGLE
DESIGN ENGINEER: GEORGE BLOMBERG
DRAFTER: KEN LANE
SCALE: AS SHOWN
DATE: 5/11/2017
CHECKED/APPROVED BY:

Port of Seattle MARITIME DIVISION
PROJECT: SITE 23 & 25 RESTORATION
SHEET TITLE: GOOSE EXCLUSION DETAILS

WORK PROJECT NO. 105563
CONSULTANT'S NO.
PORT OF SEATTLE NO.
117-1201 L4.4

LEGEND

SYMBOLS

LIMITS OF MECHANICAL WORK AREA	----
EXISTING UTILITIES	_____
NEW UTILITIES	_____
ABANDONED FUEL LINE	— ABD—FUEL —
UTILITY LINE TO BE DEMOLISHED	//////
ABANDONED WATER LINE	— ABD—W —
FIRE WATER LINE	— FW —
SANITARY SEWER LINE	— SS —
STORM DRAIN	— SD —
FUEL LINE	— FUEL —
NATURAL GAS LINE	— NGAS —
SS FORCE MAIN	— FM —
FIRE LINE	— F —
FIRE HYDRANT	
WATER SPIGOT OR HOSE BIBB	
CLEAT (SHIP TIE-DOWN)	
LIGHT POLE W/ LUMINARE (SINGLE)	
SANITARY SEWER MANHOLE	
WATER MANHOLE	
STORM DRAIN MANHOLE	
CATCH BASIN	
TELEPHONE MANHOLE	
POWER MANHOLE	
POWER HAND HOLE	
TELEPHONE HAND HOLE	
BOLLARD	
CHECK VALVE	
GATE VALVE	
ELBOW—TURNED UP	
ELBOW—TURNED DOWN	
CAP	
REDUCER CONCENTRIC	
TEE—OUTLET UP	
TEE—OUTLET DOWN	
SECTIONAL VALVE WITH NUMBER	
POST INDICATOR VALVE	
MISCELLANEOUS VALVE	
MECHANICAL DEMOLITION WORK AREA	
POINT OF CONNECTION	POC
WATER METER	

LEGEND

SYMBOLS

COUNTOUR LINE	— 10 —
STRUCTURAL EARTH WALL	— — — —
IRRIGATION DRIP LINE W/ INTEGRAL EMITTERS	— — — —
CITY WATER SUPPLY MAIN (DOMESTIC POTABLE WATER)	— WATR —
SCH 80 IRRIGATION MAIN LINE	— IRRG —
SCH 40 IRRIGATION LATERAL LINE	— LATR —
DOUBLE CHECK BACKFLOW PREVENTER ASSEMBLY & VAULT	
REDUCED PRESSURE BACKFLOW PREVENTER ASSEMBLY & VAULT	
WATER METER & VALVE BOX	
DRIP SYSTEM ZONE CONTROL VALVE, VALVE CONTROLLER, & VALVE BOX	
MANUAL IRRIGATION AREA ISOLATION VALVE & VALVE BOX	
MANUAL IRRIGATION FLUSH VALVE & VALVE BOX	
ADA COMPLIANT HIGH/LOW DRINKING FOUNTAIN, PET FOUNTAIN, & FOOT WASH	

GENERAL NOTES:

- BACKGROUND DRAWINGS ON ALL MECHANICAL SHEETS ARE FOR REFERENCE ONLY. FIELD VERIFY LOCATIONS, CONDITIONS, AND DIMENSIONS.
- ALL ADJACENT EQUIPMENT AND SYSTEMS SHALL BE PROTECTED AND KEPT OPERATIONAL. EXISTING EQUIPMENT SHALL BE PROTECTED AND MAINTAINED IN A CONDITION EQUAL TO THAT PRIOR TO COMMENCEMENT OF WORK.
- THE CONTRACTOR SHALL REPAIR TO MATCH EXISTING OR REPLACE, ANY ITEM, EQUIPMENT, OR MATERIAL OUTSIDE THE WORK AREA WHICH IS DAMAGED BY CONSTRUCTION ACTIVITIES DURING THE EXECUTION OF THIS CONTRACT AT NO EXPENSE TO THE OWNER.
- ALL REQUIRED PERMITS FOR MECHANICAL DEMOLITION AND NEW WORK SHALL BE OBTAINED AND PAID FOR BY THE CONTRACTOR.
- EXISTING UTILITY LOCATIONS ARE APPROXIMATE ONLY. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO PROVIDE SERVICES OF A PRIVATE LOCATOR TO VERIFY LOCATIONS, ELEVATIONS, AND CONNECTION REQUIREMENTS PRIOR TO WORK COMMENCEMENT.
- CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS PERTAINING TO THE WORK BEFORE PROCEEDING. THE ENGINEER SHALL BE NOTIFIED OF ANY VARIATION FROM THE DIMENSIONS AND/OR CONDITIONS SHOWN ON THESE DRAWINGS.
- THE CONTRACTOR SHALL NOT PURCHASE MATERIALS OR BEGIN WORK UNTIL THE SHOP DRAWINGS AND PRODUCT DATA SUBMITTAL HAVE BEEN APPROVED BY THE ENGINEER.
- ALL ACTIVATION AND DEACTIVATION OF UTILITIES SHALL BE COORDINATED WITH THE PORT OF SEATTLE RESIDENT ENGINEER IN ADVANCE.
- COORDINATE MECHANICAL WORK WITH OTHER CONSTRUCTION ACTIVITIES. COORDINATE PERTINENT SITE PREPARATION REQUIRED FOR COMPLETING THE MECHANICAL WORK.
- ANY POT-HOLING REQUIRED BY THE CONTRACTOR SHALL BE DONE AT NO COST TO THE PORT OF SEATTLE. COORDINATE WITH THE RESIDENT ENGINEER.
- NOTIFY SEATTLE PUBLIC UTILITIES IN ADVANCE FOR INSPECTION OF PIPING PRIOR TO COVERING TRENCHES.

IRRIGATION GENERAL NOTES

- PLAN DRAWINGS ARE SCHEMATIC. DO NOT SCALE EMITTER TUBE SPACING SHOWN ON THE PLAN DRAWINGS.
- EMITTER TUBING SHALL BE PLACED AT A MAXIMUM OF 18" BETWEEN ROWS.
- IRRIGATION ZONE AREAS (USED FOR EMITTER TUBE LOCATIONS AND WATER FLOW CALCULATIONS) NOTED ON THE PLANS ARE HORIZONTAL PLANE AREAS. ACTUAL SLOPE AREAS VARY BUT IN GENERAL ARE APPROXIMATELY 11 PERCENT LARGER.
- STAKE ALL VALVE BOX LOCATIONS FOR APPROVAL.
- SET VALVE BOXES SQUARE TO ADJACENT WALL, CURB, OR PAVING.
- ALL IRRIGATION UNDER ROADS, SIDEWALKS, PATHS, ROCK AREAS, PARKING AREAS, OR OTHER SURFACES WITHOUT RIPARIAN PLANTINGS SHALL BE SLEEVED. SLEEVES SHALL BE 1-1/2 TIMES THE DIAMETER OF THE INSERT PIPE, 6" MIN, OR AS INDICATED.
- ALL PIPE SHOWN UNDER PAVING ADJACENT AND PARALLEL TO PLANTED AREAS IS INTENDED TO BE PLACED IN THAT AREA WHERE POSSIBLE.
- THE IRRIGATION SYSTEM SHALL BE INSTALLED SUCH THAT ALL RIPARIAN PLANTING AREAS ARE PROVIDED WITH TOTAL EMITTER COVERAGE FROM THE TOP OF SLOPE TO ELEVATION 12 FEET.
- MAKE ANY AND ALL REQUIRED ADJUSTMENTS TO THE IRRIGATION PLAN TO ASSURE COMPLETE AND ADEQUATE COVERAGE FROM IRRIGATION ZONE VALVES, IRRIGATION LATERALS AND EMITTER TUBING. AS SHOWN ON THE ENLARGED PLAN DRAWINGS, THE CONTRACTOR SHALL PLACE EACH EMITTER TUBE ALONG A CONSTANT ELEVATION LINE FROM THE IRRIGATION LATERAL LINES TO THE MAXIMUM EXTENT POSSIBLE. THIS WILL ENSURE THAT THE EMITTER TUBING IS AS LEVEL AS POSSIBLE AND NOT SLOPED.
- CONTRACTOR SHALL TEST STATIC WATER PRESSURE AND SUBMIT RESULT TO ENGINEERING PRIOR TO BEGINNING WORK. SET MAIN PRV OUTLET PRESSURE TO 75 PSI.
- PLACE TRACE TAPE ON ALL IRRIGATION MAIN AND LATERAL PIPING.
- LATERAL LINES SHALL HAVE MINIMUM 24" OF COVER FROM FINISH GRADE (EXCLUDING SHREDDED BARK/GREEN MULCH) AND MAIN LINES 36" OF COVER (EXCLUDING SHREDDED BARK/GREEN MULCH).
- TO ESTABLISH GROUND COVER, SET EACH DRIP ZONE CONTROL VALVE TO OPERATE FOR 2 HOURS TWICE A WEEK FOR A TOTAL OF 4 HOURS PER WEEK THROUGHOUT THE GROWING SEASON. INCREASE LENGTH OF TIME EACH ZONE OPERATES TO MATCH WEATHER AND PLANT CONDITIONS. ONCE GROUND COVER IS ESTABLISHED, REDUCE ZONE WATERING TO 1.5 HOURS TWICE A WEEK.
- THE NUMBER OF IRRIGATION ZONES THAT MAY BE OPERATED SIMULTANEOUSLY WILL VARY DEPENDING UPON WATER PRESSURE AVAILABLE AND THE LENGTH OF IRRIGATION MAIN PIPING TO THE INDIVIDUAL ZONES. IRRIGATION MAIN LINE VELOCITY SHALL NOT EXCEED 5 FEET PER SECOND. A MAXIMUM OF TWO (2) ZONES SHALL BE OPERATED SIMULTANEOUSLY.
- IRRIGATION SYSTEM SHALL BE WINTERIZED EACH YEAR BY BLOWING OUT SYSTEM WITH COMPRESSED AIR.

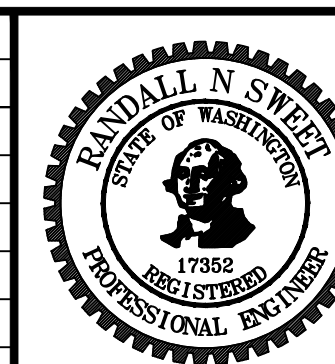
RESTORATION NOTES:

- RESTORE GRADES TO ORIGINAL LEVELS WHERE SETTLEMENT OR DAMAGE DUE TO PERFORMANCE OF THE WORK HAS OCCURRED. CORRECT CONDITIONS CONTRIBUTING TO SETTLEMENT. REMOVE AND REPLACE IMPROPERLY PLACED OR POORLY COMPACTED FILL MATERIALS.
- RESTORE PAVEMENTS, WALKS, CURBS, STREET STRIPING, LANDSCAPING, IRRIGATION AND OTHER SURFACE FEATURES DAMAGED DURING PERFORMANCE OF THE WORK TO MATCH THE APPEARANCE AND PERFORMANCE OF EXISTING CORRESPONDING FEATURES.

CALL 2 DAYS BEFORE YOU DIG
1-800-424-5555

PROJECT ENGR./ARCH:
DESIGNER:
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SCALE:
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CHECKED/APPROVED BY:

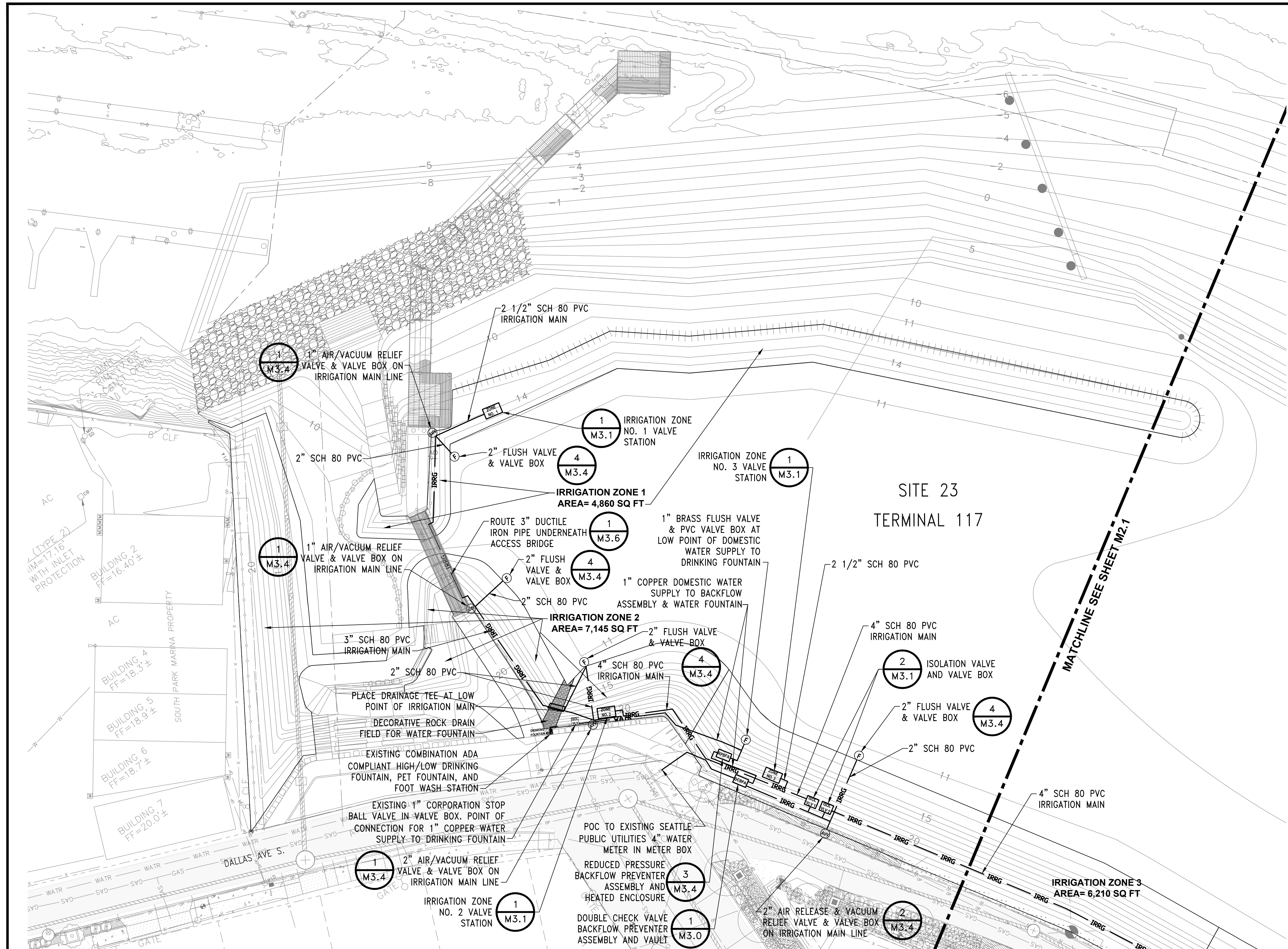
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PROJECT MANAGER: TICSON MACH
PROJECT ENGINEER: JOANNA HINGLE
DESIGN ENGINEER: JAY BABB
DRAWER: JAY BABB
SCALE: AS NOTED
DATE:
CHECKED/APPROVED BY: RANDALL SWEET

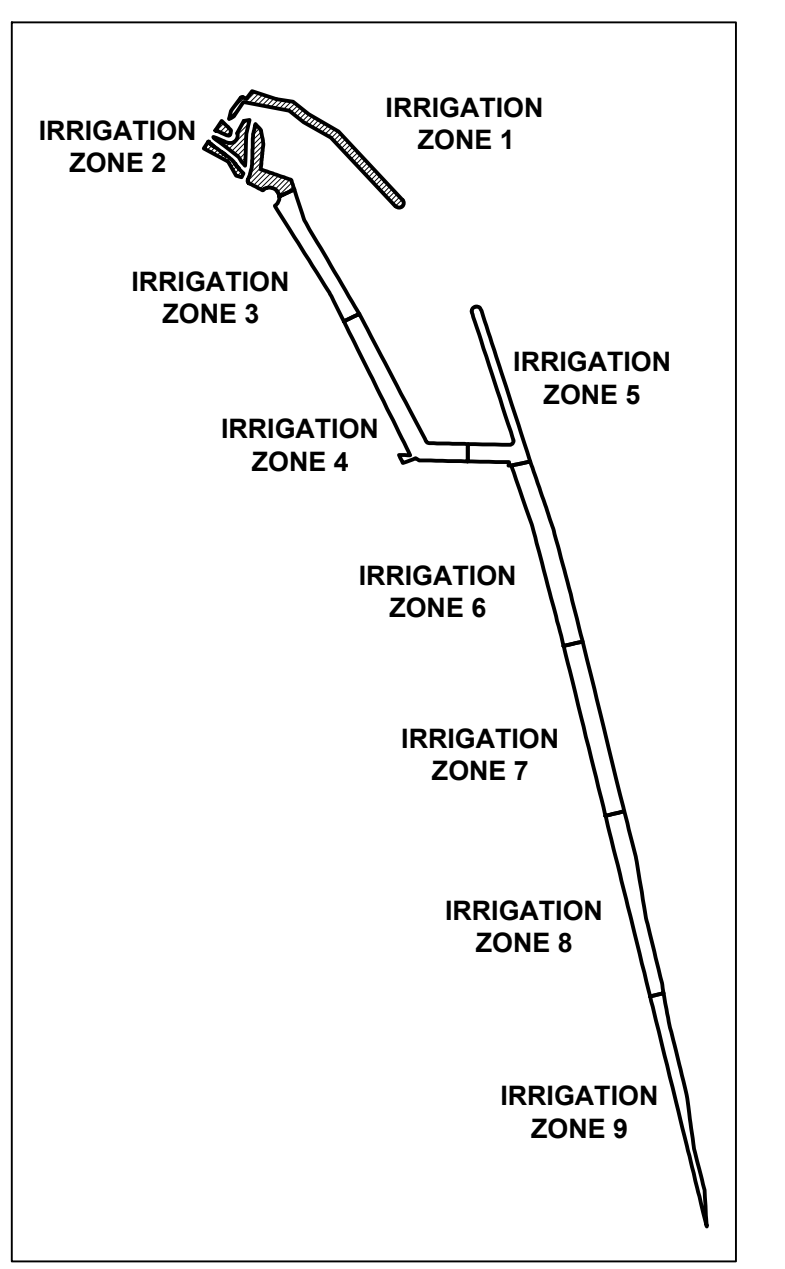
Port of Seattle MARITIME DIVISION
PROJECT: SITE 23 & 25 RESTORATION PLANTING
SHEET TITLE: LEGEND, GENERAL NOTES, DEMOLITION NOTES, AND RESTORATION NOTES

WORK PROJECT NO. 103944 (PIER - 104872)
CONSULTANT'S NO.
PORT OF SEATTLE NO. 117-1201
M1.1



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

NOTES:
 1. FOR GENERAL IRRIGATION SYSTEM NOTES SEE DWG. M1.0.

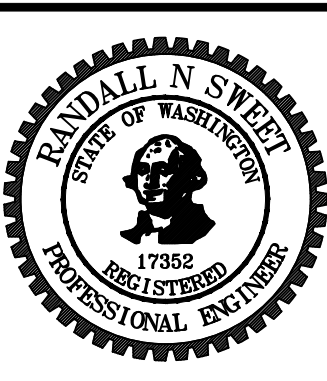


KEY PLAN
 SCALE: NTS

CALL 2 DAYS BEFORE YOU DIG
 1-800-424-5555

PROJECT ENGR./ARCH:
DESIGNER:
DRAWN BY:
SCALE:
DATE:
CHECKED BY:
CHECKED/APPROVED BY:

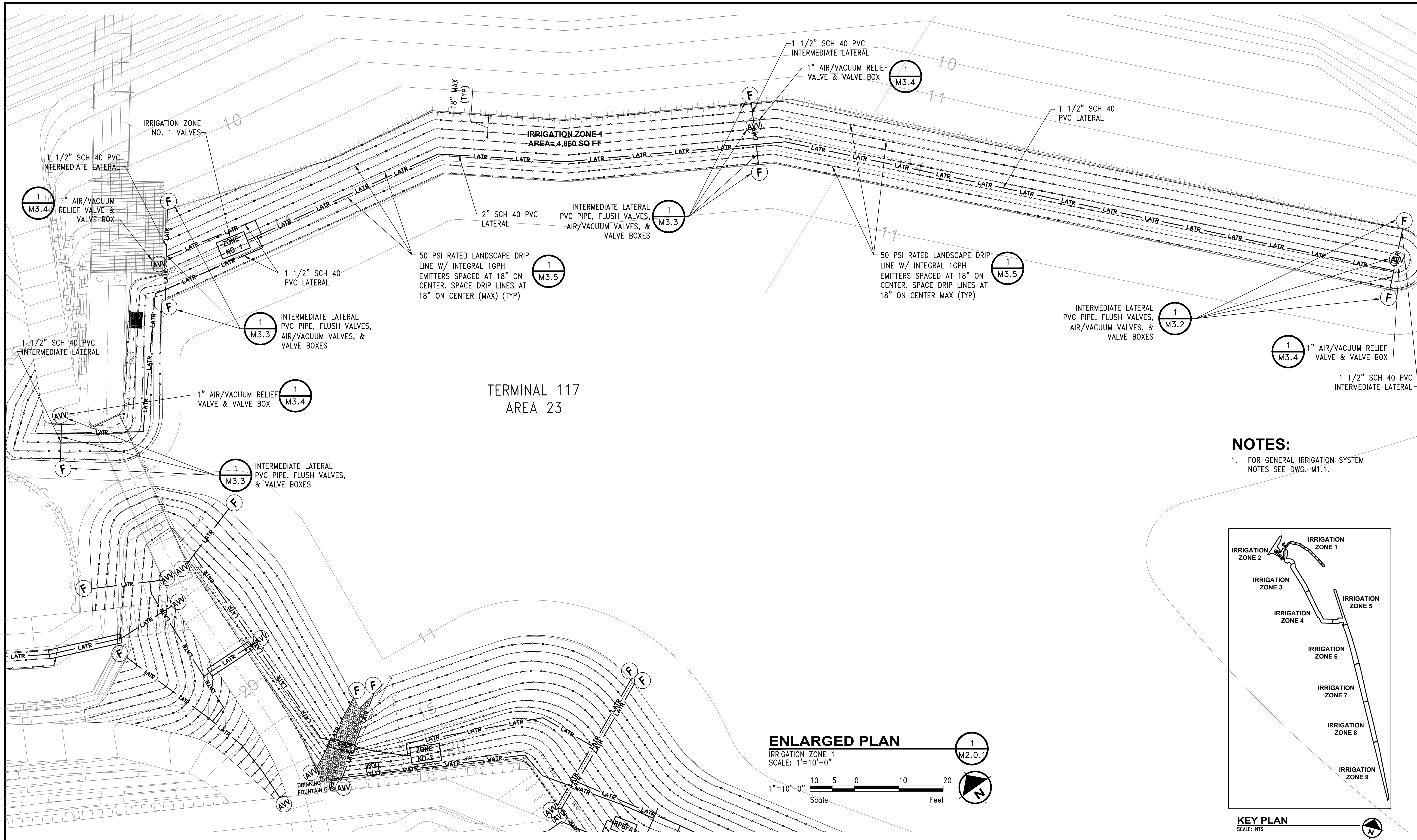
NO.		DATE		BY		DESCRIPTION		APP'D
1	1/27/17						100% REVIEW SUBMITTAL	



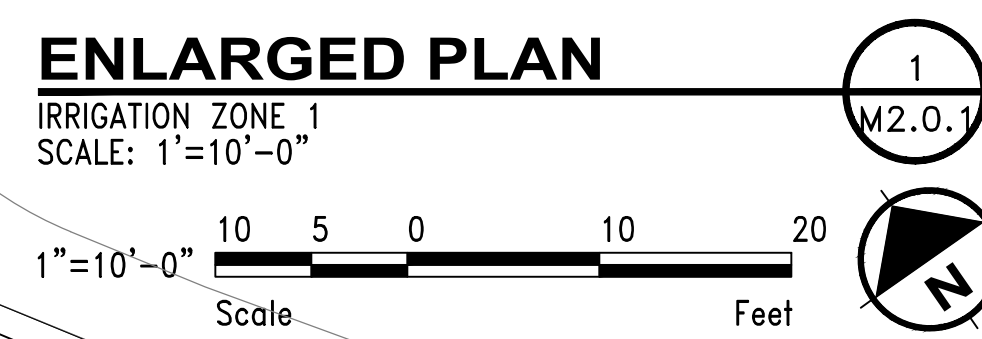
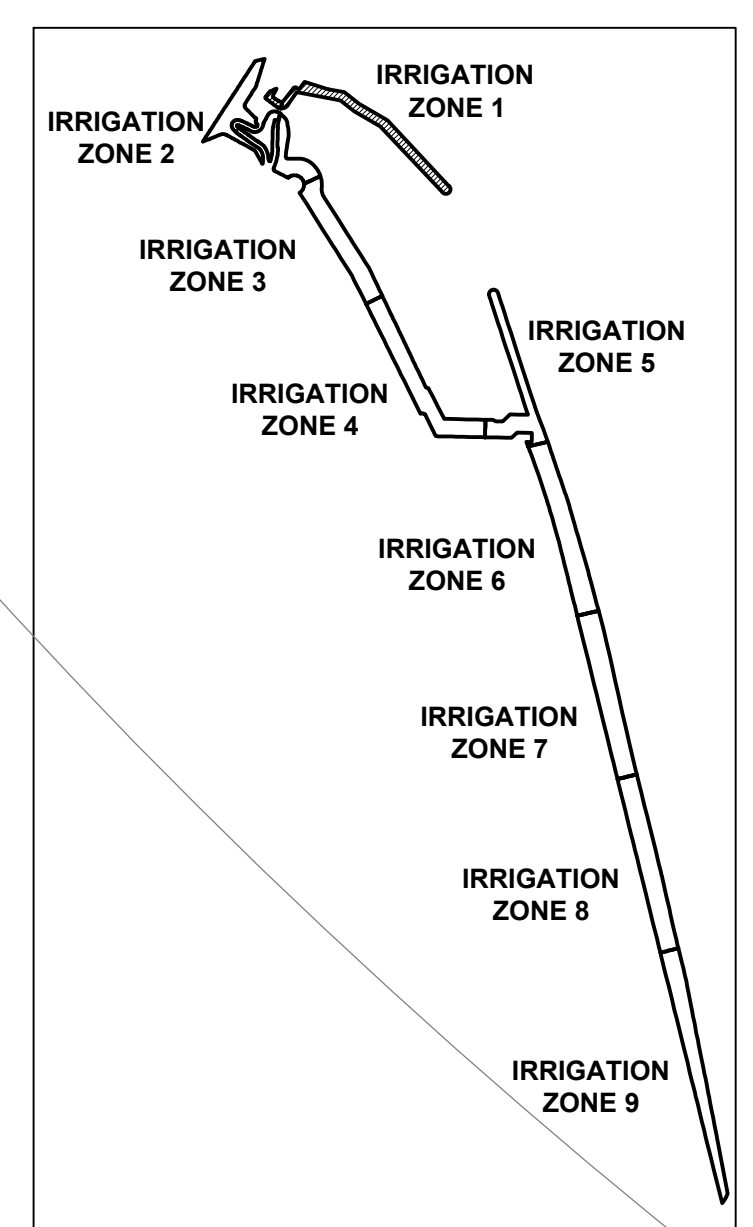
PROJECT MANAGER:
 TICSÓN MACH
 PROJECT ENGINEER:
 JOANNA HINGLE
 DESIGN ENGINEER:
 JAY BABB
 DRAFTER:
 JAY BABB
 SCALE:
 AS NOTED
 DATE:

Port of Seattle MARITIME DIVISION
 PROJECT: SITE 23 & 25 RESTORATION PLANTING
 SHEET TITLE: **LANDSCAPE IRRIGATION PLAN- IRRIGATION WATER SUPPLY MAIN GENERAL ARRANGEMENT**

WORK PROJECT NO.
 103944 (PIER - 104872)
 CONSULTANT'S NO.
 PORT OF SEATTLE NO.
 117-1201 **M2.0**



NOTES:
 1. FOR GENERAL IRRIGATION SYSTEM NOTES SEE DWG. M1.1.



CALL 2 DAYS
 BEFORE YOU DIG
 1-800-424-5555

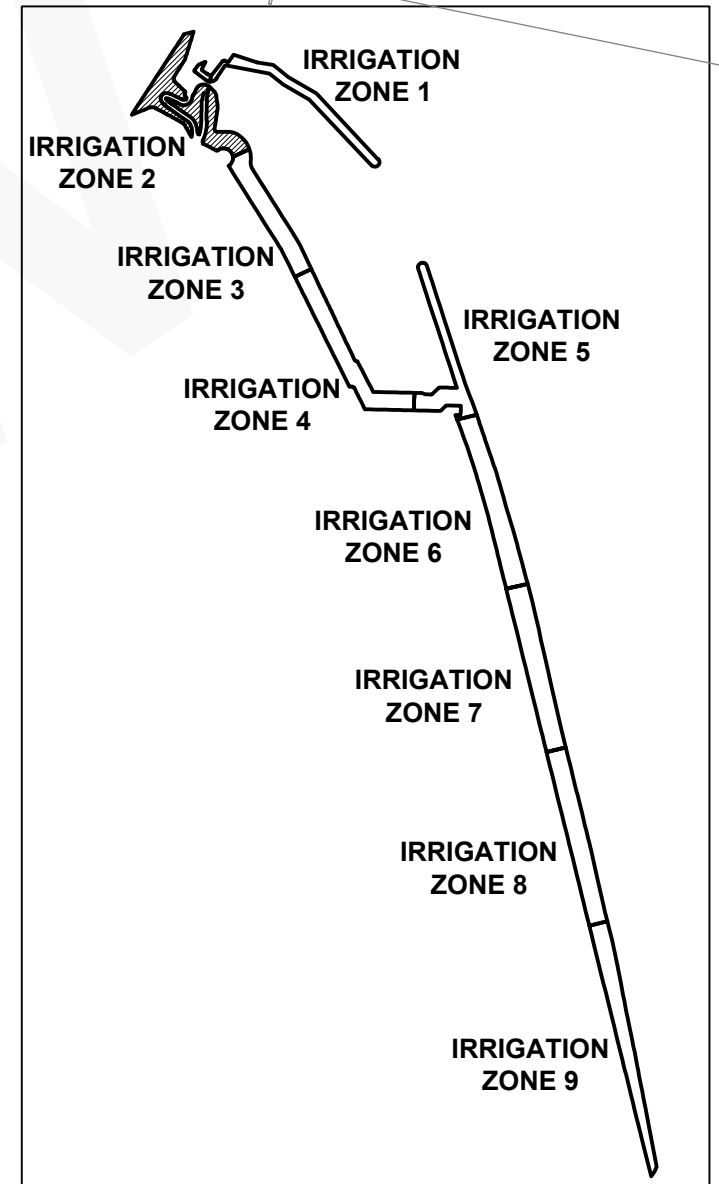
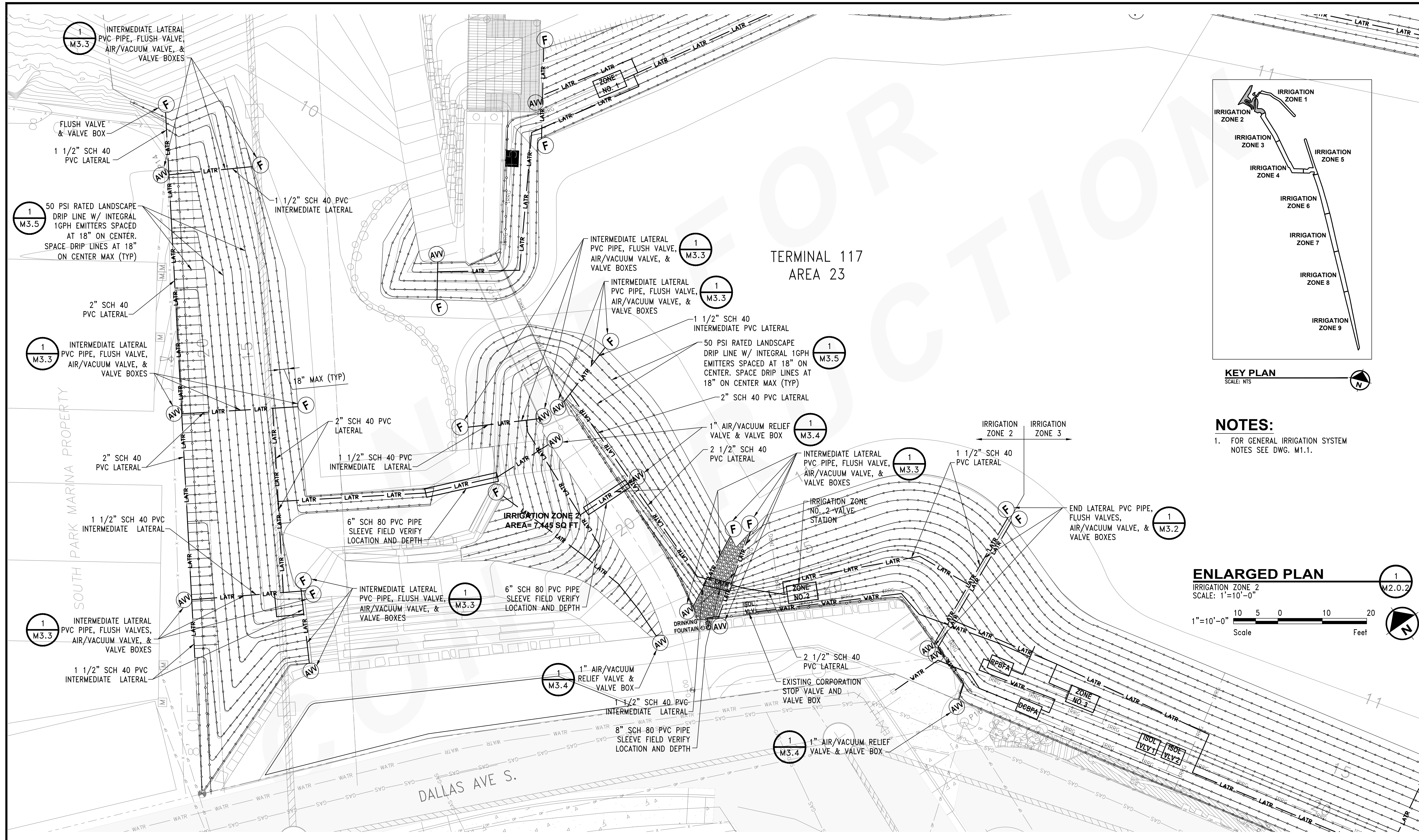
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 DESIGNER:
 DRAWN BY:
 SCALE:
 DATE:
 CHECKED BY:
 CHECKED/APPROVED BY:

REVISIONS									
NO.	DATE	BY	DESCRIPTION	APP'D	NO.	DATE	BY	DESCRIPTION	APP'D
1	1/27/17		100% REVIEW SUBMITTAL						

PROJECT MANAGER:
 TICOSON MACH
 PROJECT ENGINEER:
 JOANNA HINGLE
 DESIGN ENGINEER:
 JAY BABB
 DRAFTER:
 JAY BABB
 SCALE:
 AS NOTED
 DATE:
 CHECKED/APPROVED BY:
 RANDALL SWEET

Port of Seattle MARITIME DIVISION
 PROJECT: SITE 23 & 25 RESTORATION PLANTING
 SHEET TITLE: LANDSCAPE IRRIGATION ENLARGED PLAN - ZONE 1
 PVC LATERAL AND EMITTER TUBING LAYOUT

WORK PROJECT NO.
 103944 (PIER - 104872)
 CONSULTANT'S NO.
 PORT OF SEATTLE NO.
 117-1201 **M2.0.1**



KEY PLAN
SCALE: NTS

NOTES:
1. FOR GENERAL IRRIGATION SYSTEM NOTES SEE DWG. M1.1.

ENLARGED PLAN
IRRIGATION ZONE 2
SCALE: 1"=10'-0"
1"=10'-0"
Scale 10 5 0 10 20 Feet

CALL 2 DAYS BEFORE YOU DIG
1-800-424-5555

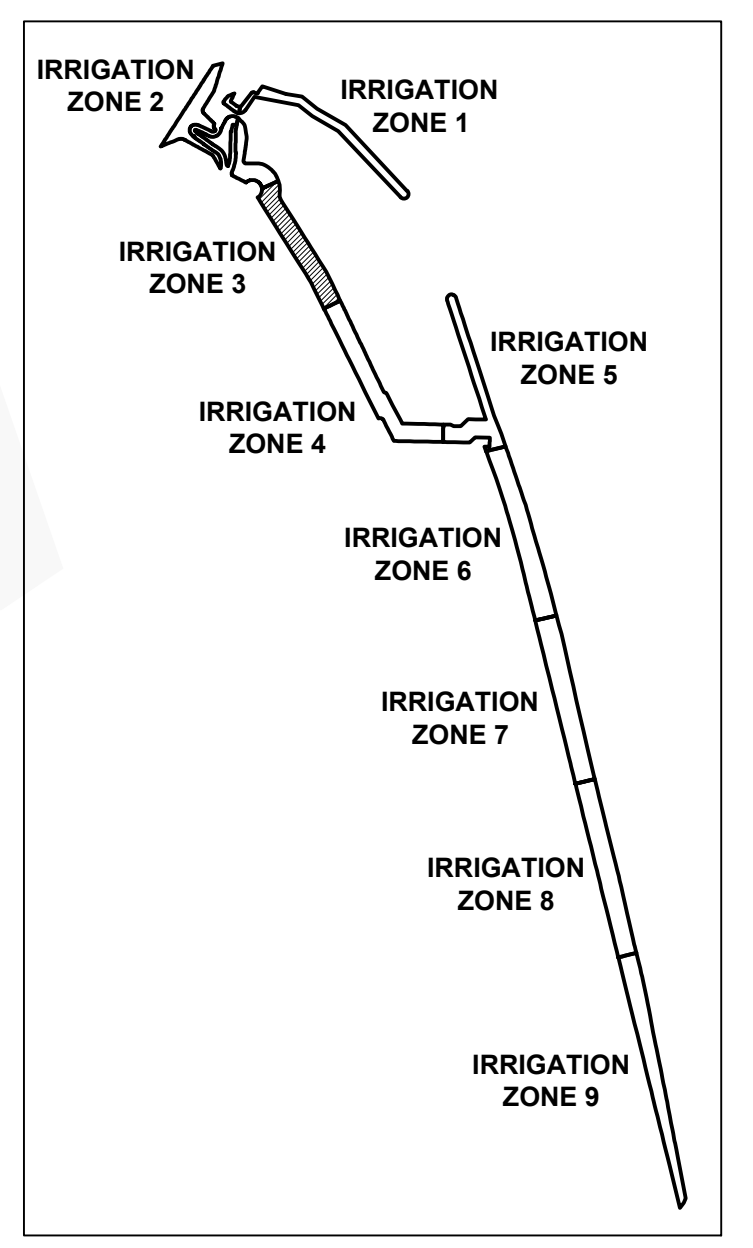
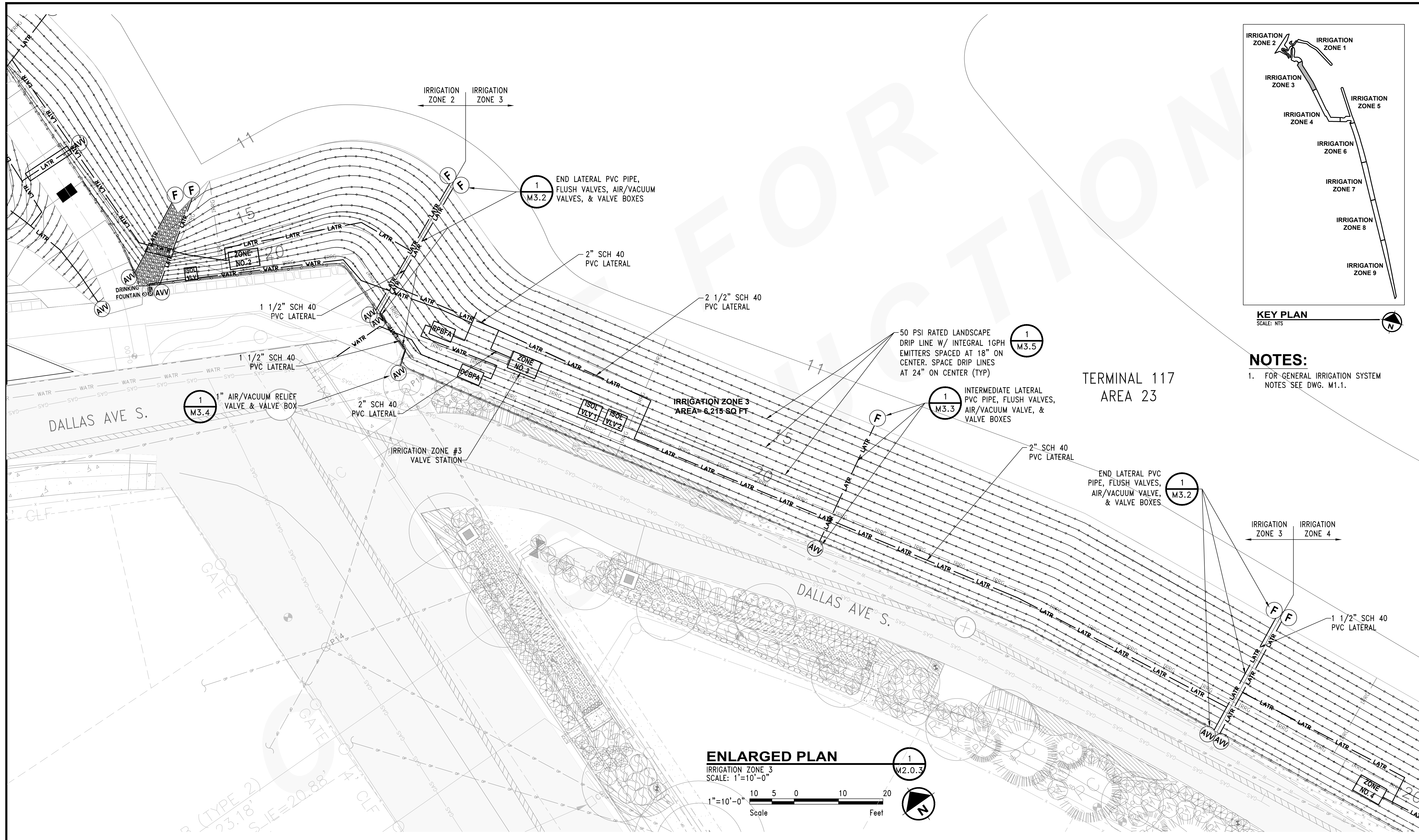
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DESIGNER:
DRAWN BY:
SCALE:
DATE:
CHECKED BY:
CHECKED/APPROVED BY:

NO.		DATE		BY		DESCRIPTION		APP'D	
1	1/27/17						100% REVIEW SUBMITTAL		

PROJECT MANAGER:
TICSON MACH
PROJECT ENGINEER:
JOANNA HINGLE
DESIGN ENGINEER:
JAY BABB
DRAWN BY:
JAY BABB
SCALE:
AS NOTED
DATE:
CHECKED/APPROVED BY:
RANDALL SWEET

Port of Seattle MARITIME DIVISION
PROJECT: SITE 23 & 25 RESTORATION PLANTING
SHEET TITLE: LANDSCAPE IRRIGATION ENLARGED PLAN - ZONE 2
PVC LATERAL AND EMITTER TUBING LAYOUT

WORK PROJECT NO.
103944 (PIER - 104872)
CONSULTANT'S NO.
PORT OF SEATTLE NO.
117-1201 **M2.0.2**



KEY PLAN
SCALE: NTS

NOTES:
1. FOR GENERAL IRRIGATION SYSTEM NOTES SEE DWG. M1.1.

ENLARGED PLAN
IRRIGATION ZONE 3
SCALE: 1"=10'-0"
1"=10'-0" 0 5 10 20 Feet

CALL 2 DAYS BEFORE YOU DIG
1-800-424-5555

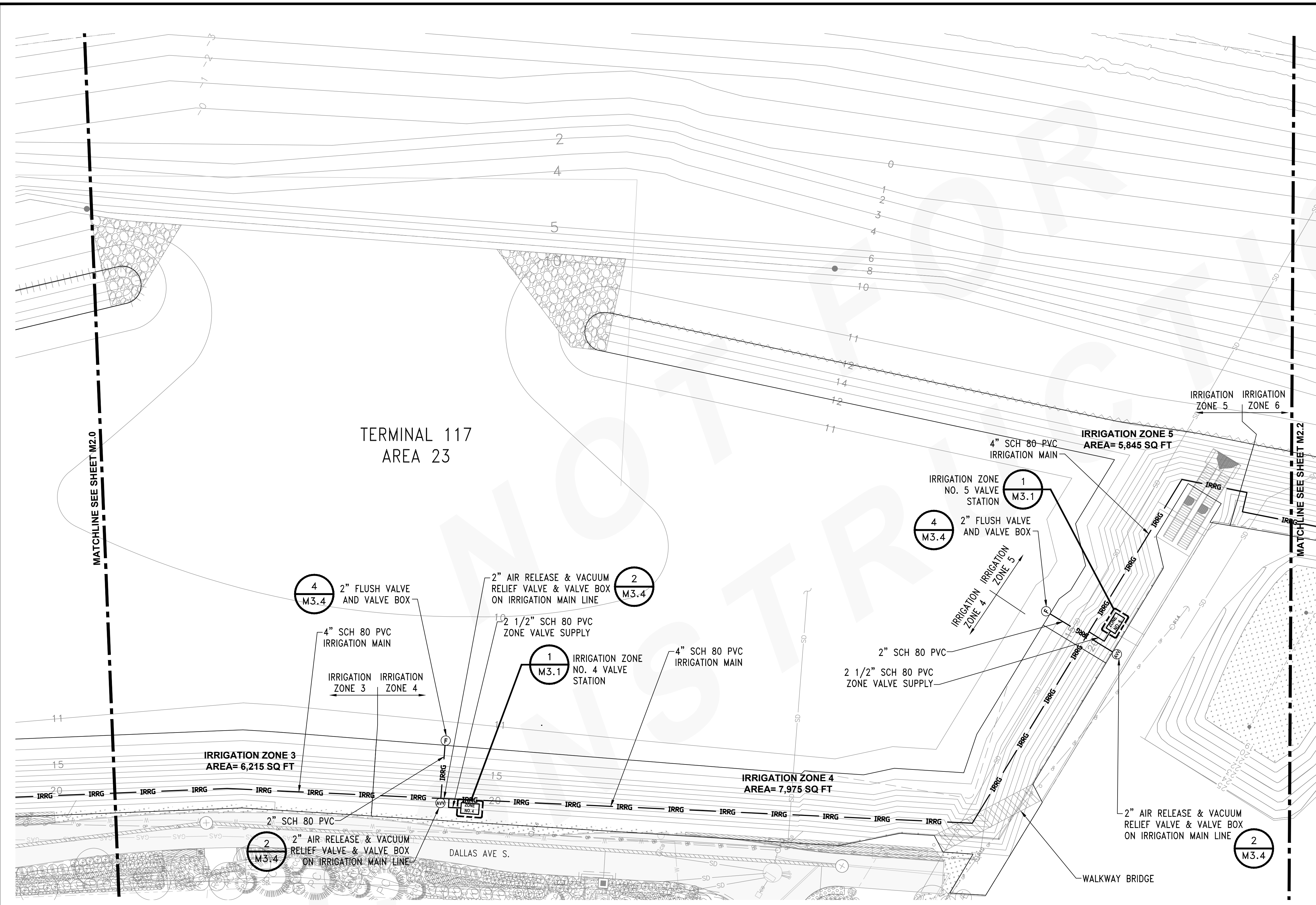
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DESIGNER:
DRAWN BY:
SCALE:
DATE:
CHECKED BY:
CHECKED/APPROVED BY:

REVISIONS									
NO.	DATE	BY	DESCRIPTION	APP'D	NO.	DATE	BY	DESCRIPTION	APP'D
1	1/27/17		100% REVIEW SUBMITTAL						

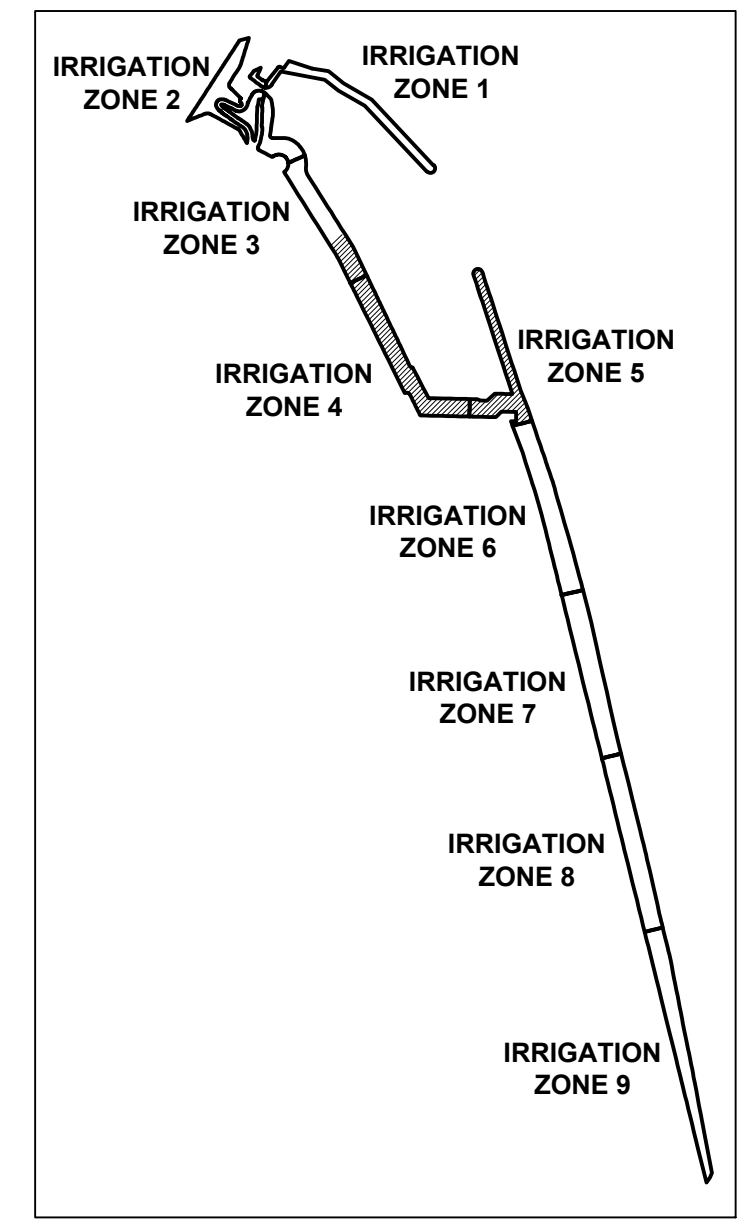
PROJECT MANAGER:
TICSON MACH
PROJECT ENGINEER:
JOANNA HINGLE
DESIGN ENGINEER:
JAY BABB
DRAWN BY:
JAY BABB
SCALE:
AS NOTED
DATE:
CHECKED/APPROVED BY:
RANDALL SWEET

Port of Seattle MARITIME DIVISION
PROJECT: SITE 23 & 25 RESTORATION PLANTING
SHEET TITLE: **LANDSCAPE IRRIGATION ENLARGED PLAN - ZONE 3**
PVC LATERAL AND EMITTER TUBING LAYOUT

WORK PROJECT NO. 103944 (PIER - 104872)
CONSULTANT'S NO.
PORT OF SEATTLE NO. 117-1201 **M2.0.3**



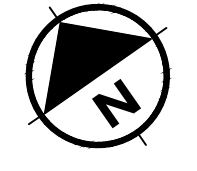
NOTES:
 1. FOR GENERAL IRRIGATION SYSTEM NOTES SEE DWG. M1.1.



KEY PLAN
 SCALE: NTS

IRRIGATION PLAN

SCALE: 1" = 20'-0"
 1" = 20'-0"
 Scale Feet



CALL 2 DAYS BEFORE YOU DIG
 1-800-424-5555

PROJECT ENGR./ARCH:
 DESIGNER:
 DRAWN BY:
 SCALE:
 DATE:
 CHECKED BY:
 CHECKED/APPROVED BY:

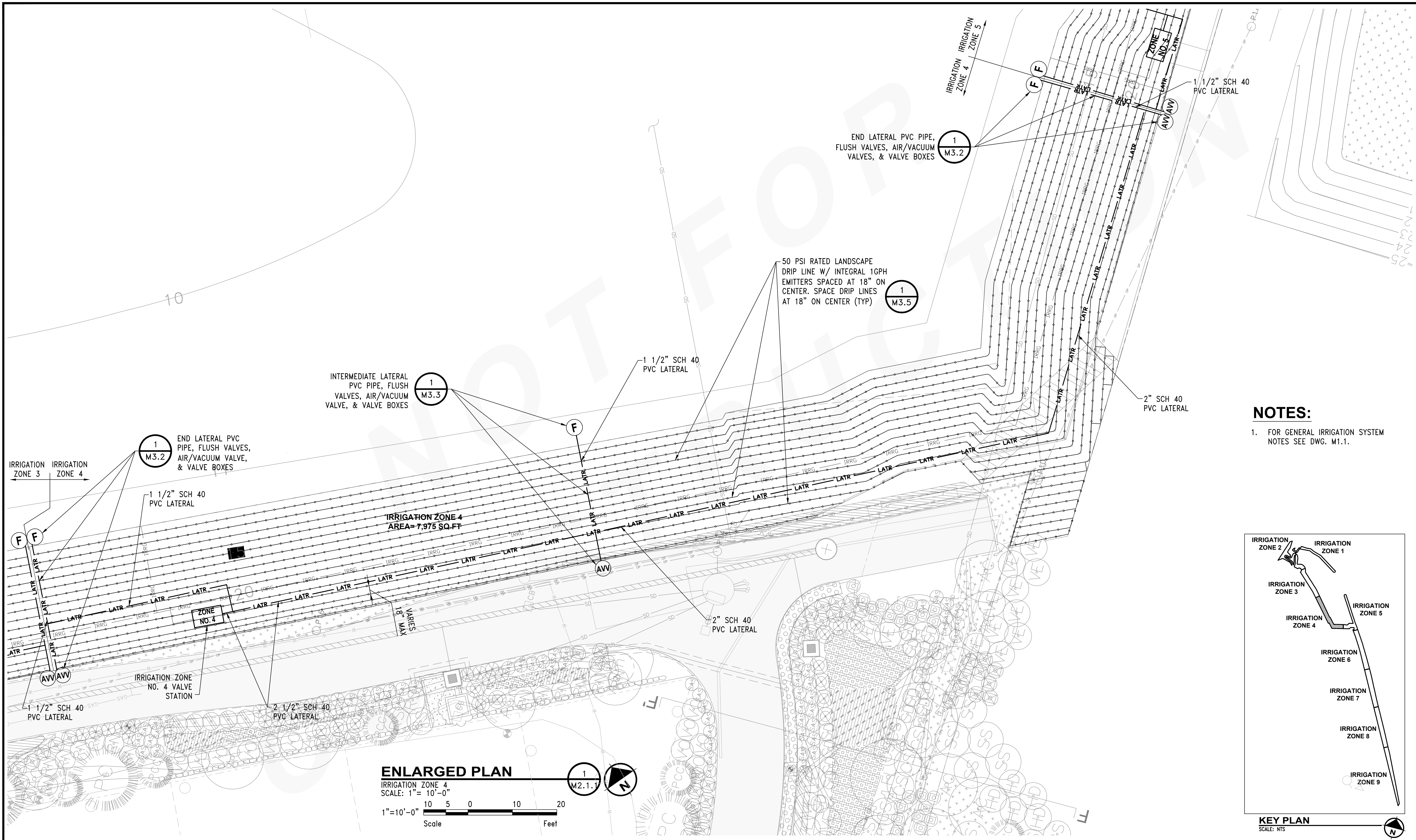
REVISIONS							
NO.	DATE	BY	DESCRIPTION	APP'D	NO.	DATE	BY
1	1/27/17		100% REVIEW SUBMITTAL				

PROJECT MANAGER:
 TICSON MACH
 PROJECT ENGINEER:
 JOANNA HINGLE
 DESIGN ENGINEER:
 JAY BABB
 DRAFTER:
 JAY BABB
 SCALE:
 AS NOTED
 DATE:
 CHECKED/APPROVED BY:
 RANDALL SWEET

Port of Seattle MARITIME DIVISION
 PROJECT: SITE 23 & 25 RESTORATION PLANTING

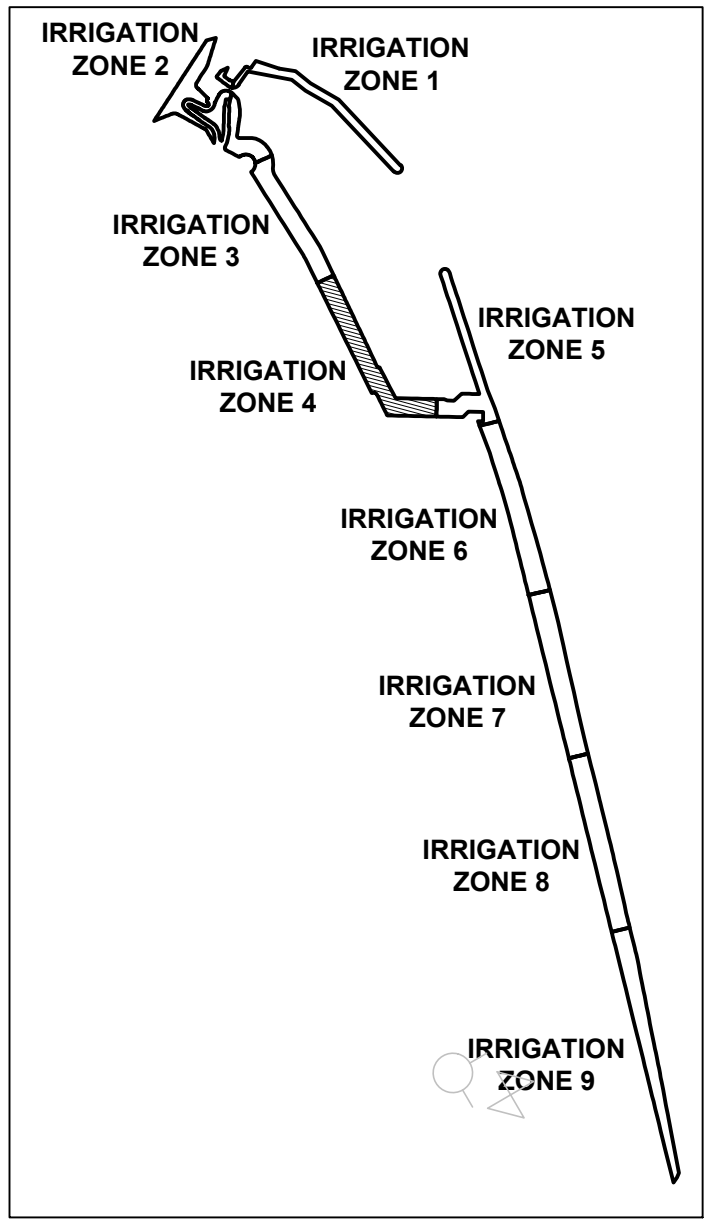
SHEET TITLE: **LANDSCAPE IRRIGATION PLAN - IRRIGATION WATER SUPPLY MAIN AND ZONE VALVE LOCATIONS**

WORK PROJECT NO.
 103944 (PIER - 104872)
 CONSULTANT'S NO.
 PORT OF SEATTLE NO.
 117-1201 **M2.1**



NOTES:

- 1. FOR GENERAL IRRIGATION SYSTEM NOTES SEE DWG. M1.1.



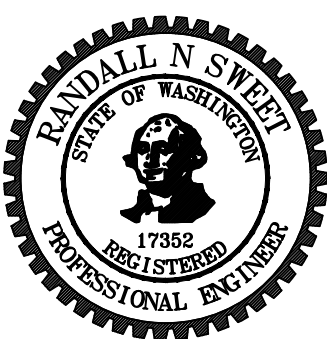
KEY PLAN
SCALE: NTS

ENLARGED PLAN
IRRIGATION ZONE 4
SCALE: 1" = 10'-0"
1" = 10'-0"
Scale Feet

CALL 2 DAYS BEFORE YOU DIG
1-800-424-5555

PROJECT ENGR./ARCH:
DESIGNER:
DRAWN BY:
SCALE:
DATE:
CHECKED BY:
CHECKED/APPROVED BY:

REVISIONS									
NO.	DATE	BY	DESCRIPTION	APP'D	NO.	DATE	BY	DESCRIPTION	APP'D
1	1/27/17		100% REVIEW SUBMITTAL						

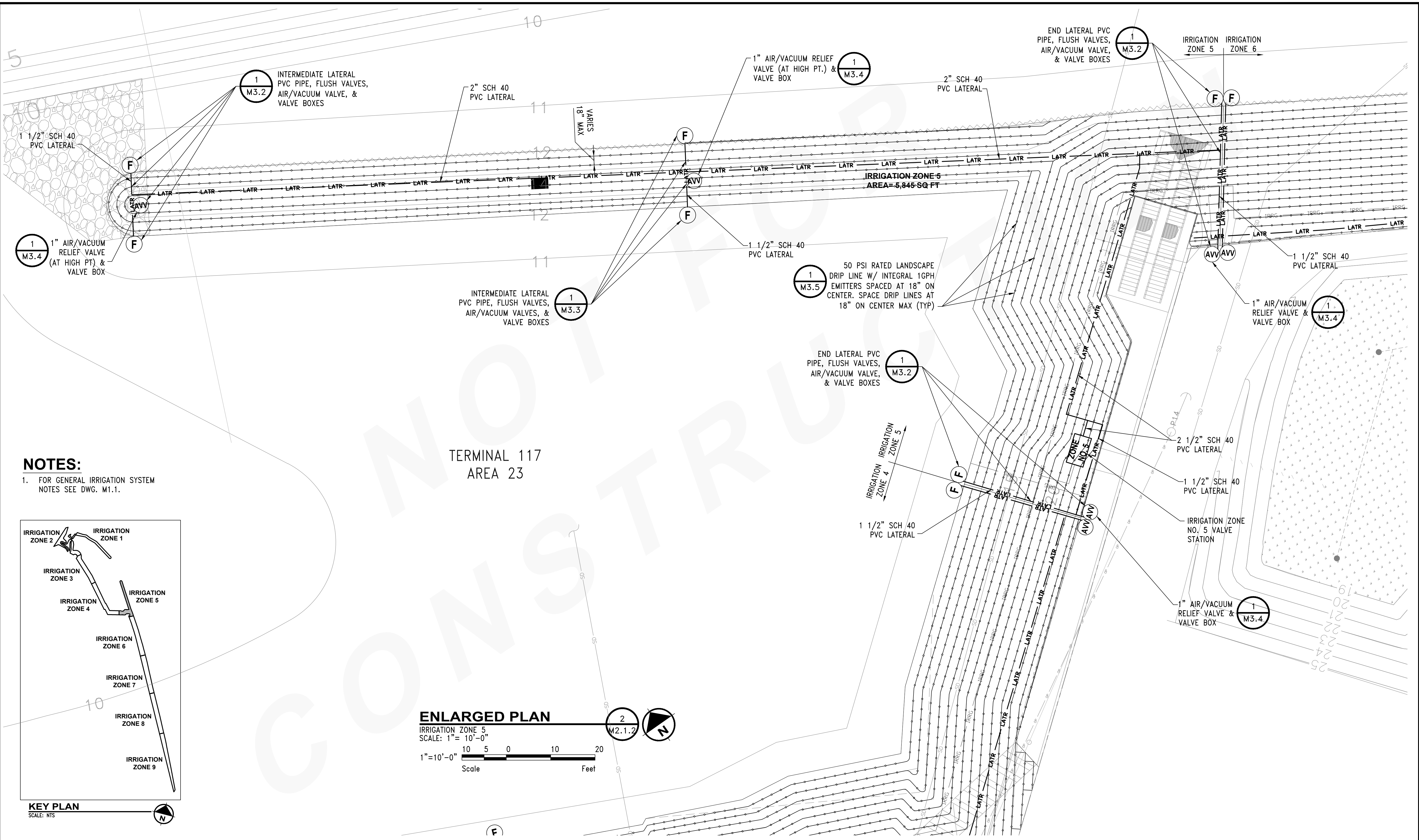


PROJECT MANAGER:
TICSON MACH
PROJECT ENGINEER:
JOANNA HINGLE
DESIGN ENGINEER:
JAY BABB
DRAWER:
JAY BABB
SCALE:
AS NOTED
DATE:
CHECKED/APPROVED BY:
RANDALL SWEET

Port of Seattle MARITIME DIVISION
PROJECT: SITE 23 & 25 RESTORATION PLANTING

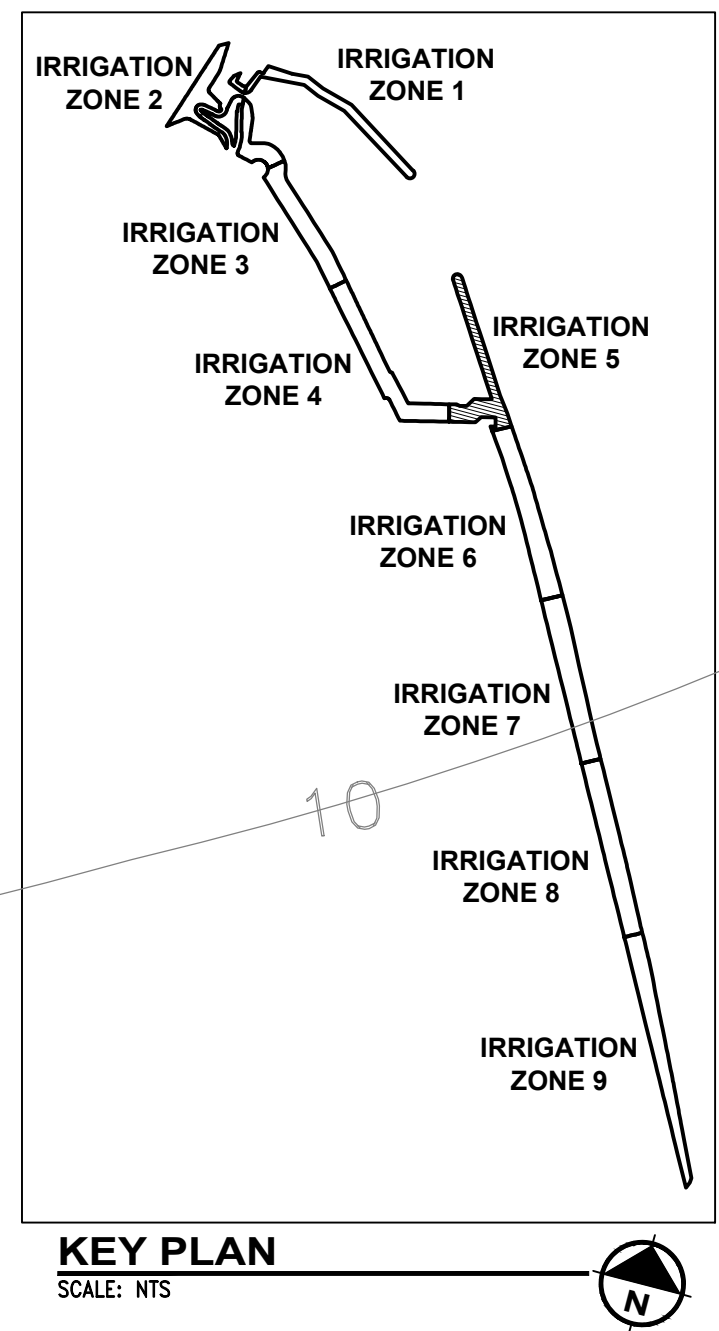
SHEET TITLE: **LANDSCAPE IRRIGATION ENLARGED PLAN - ZONE 4**
PVC LATERALS AND EMITTER TUBING LAYOUT

WORK PROJECT NO.
103944 (PIER - 104872)
CONSULTANT'S NO.
PORT OF SEATTLE NO.
117-1201 **M2.1.1**



NOTES:

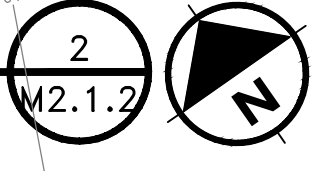
- FOR GENERAL IRRIGATION SYSTEM NOTES SEE DWG. M1.1.



TERMINAL 117
AREA 23

ENLARGED PLAN

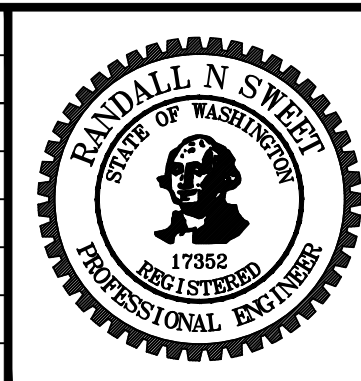
IRRIGATION ZONE 5
SCALE: 1" = 10'-0"
1" = 10'-0"
Scale Feet



CALL 2 DAYS
BEFORE YOU DIG
1-800-424-5555

PROJECT ENGR./ARCH:
DESIGNER:
DRAWN BY:
SCALE:
DATE:
CHECKED BY:
CHECKED/APPROVED BY:

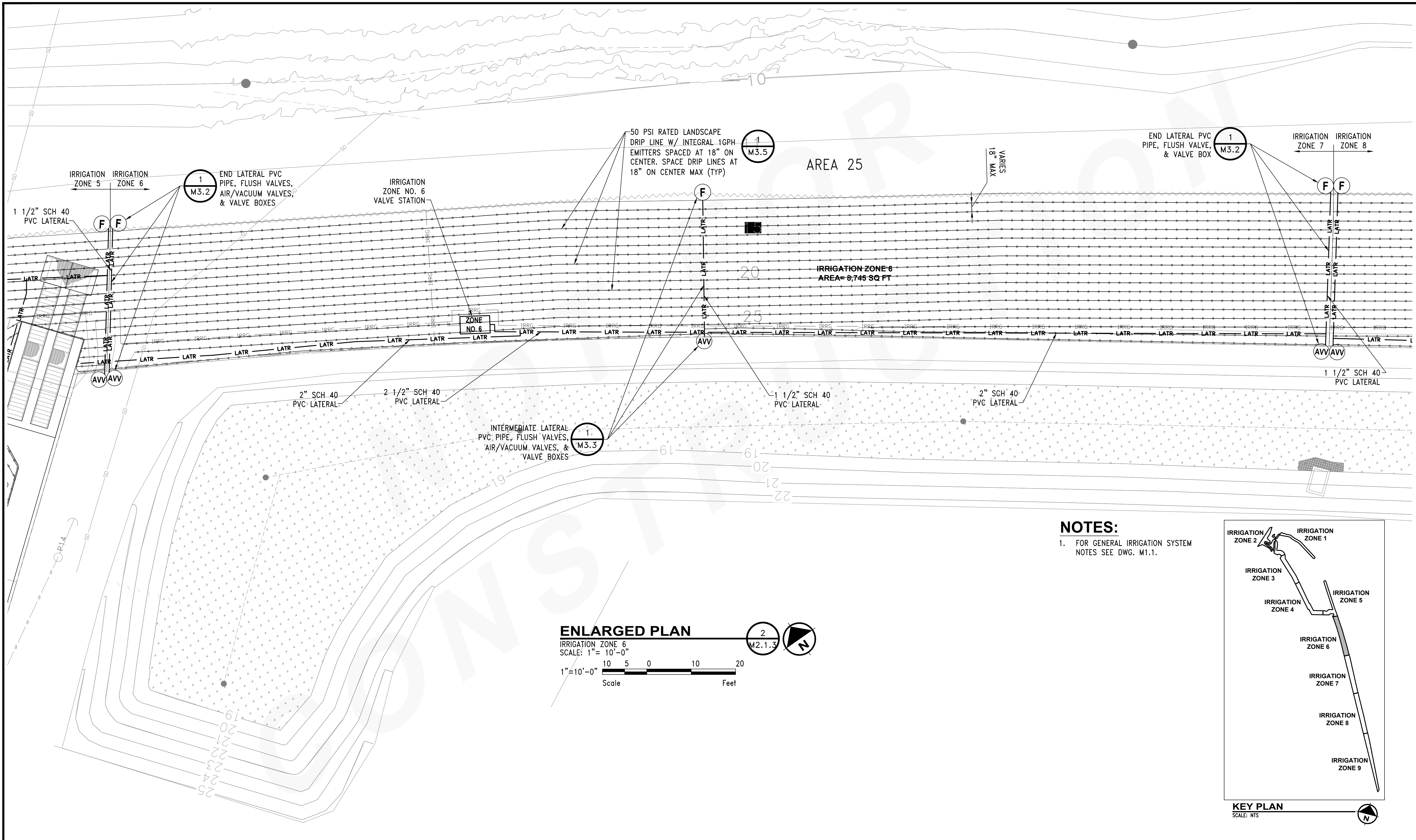
REVISIONS							
NO.	DATE	BY	DESCRIPTION	APP'D	NO.	DATE	BY
1	1/27/17		100% REVIEW SUBMITTAL				



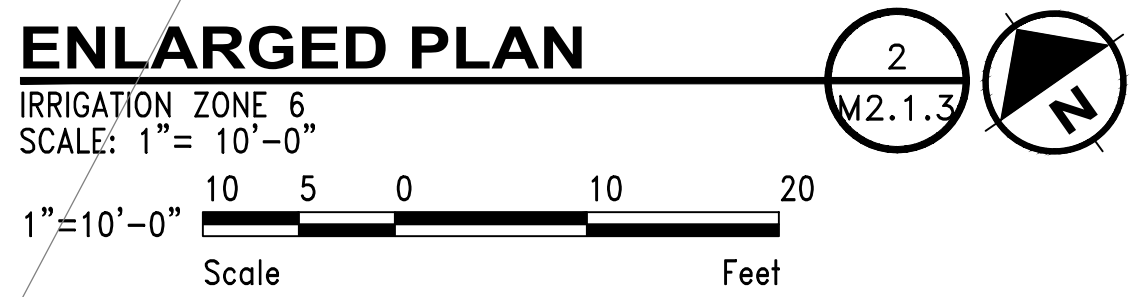
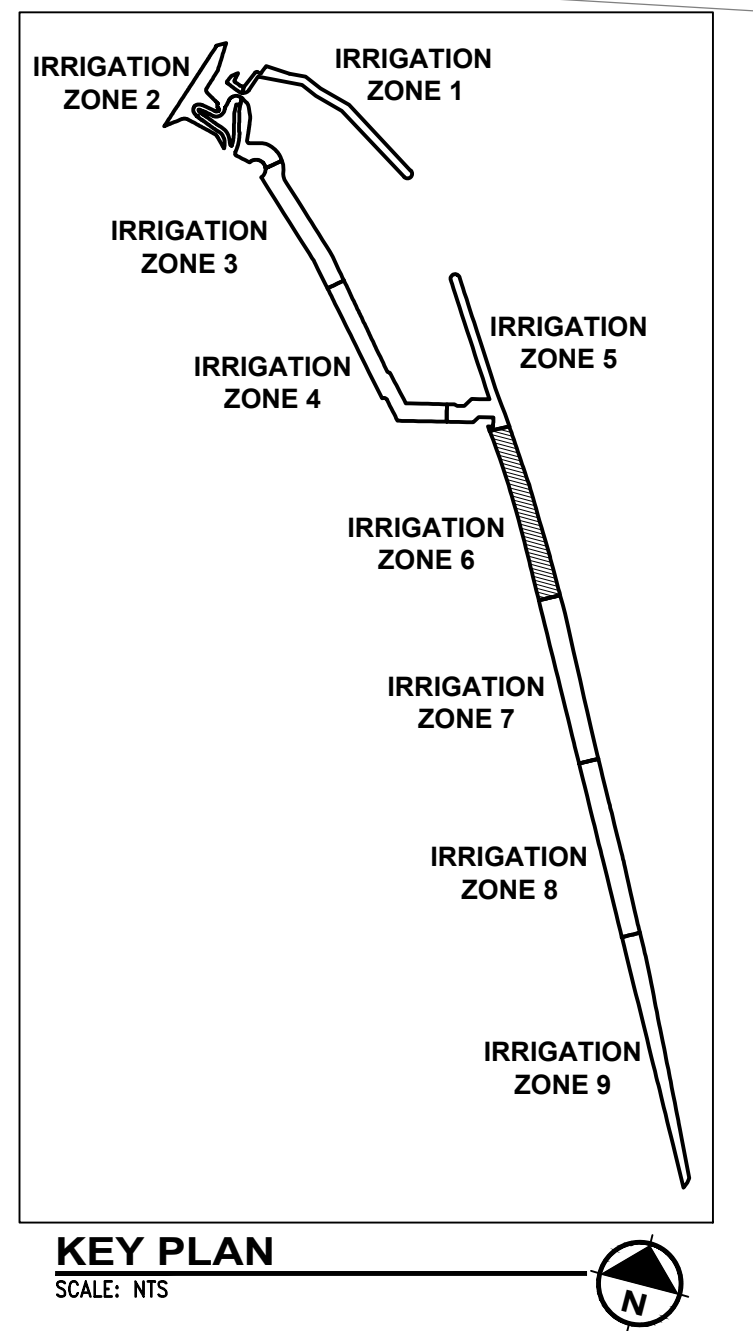
PROJECT MANAGER:
TICSON MACH
PROJECT ENGINEER:
JOANNA HINGLE
DESIGN ENGINEER:
JAY BABB
DRAWN BY:
JAY BABB
SCALE:
AS NOTED
DATE:
CHECKED/APPROVED BY:
RANDALL SWEET

Port of Seattle MARITIME DIVISION
PROJECT: SITE 23 & 25 RESTORATION PLANTING
SHEET TITLE: **LANDSCAPE IRRIGATION ENLARGED PLAN - ZONE 5**
PVC LATERALS AND EMITTER TUBING LAYOUT

WORK PROJECT NO.
103944 (PIER - 104872)
CONSULTANT'S NO.
PORT OF SEATTLE NO.
117-1201 **M2.1.2**



NOTES:
 1. FOR GENERAL IRRIGATION SYSTEM NOTES SEE DWG. M1.1.



CALL 2 DAYS BEFORE YOU DIG
 1-800-424-5555

PROJECT ENGR./ARCH:
DESIGNER:
DRAWN BY:
SCALE:
DATE:
CHECKED BY:
CHECKED/APPROVED BY:

REVISIONS							
NO.	DATE	BY	DESCRIPTION	APP'D	NO.	DATE	BY
1	1/27/17		100% REVIEW SUBMITTAL				

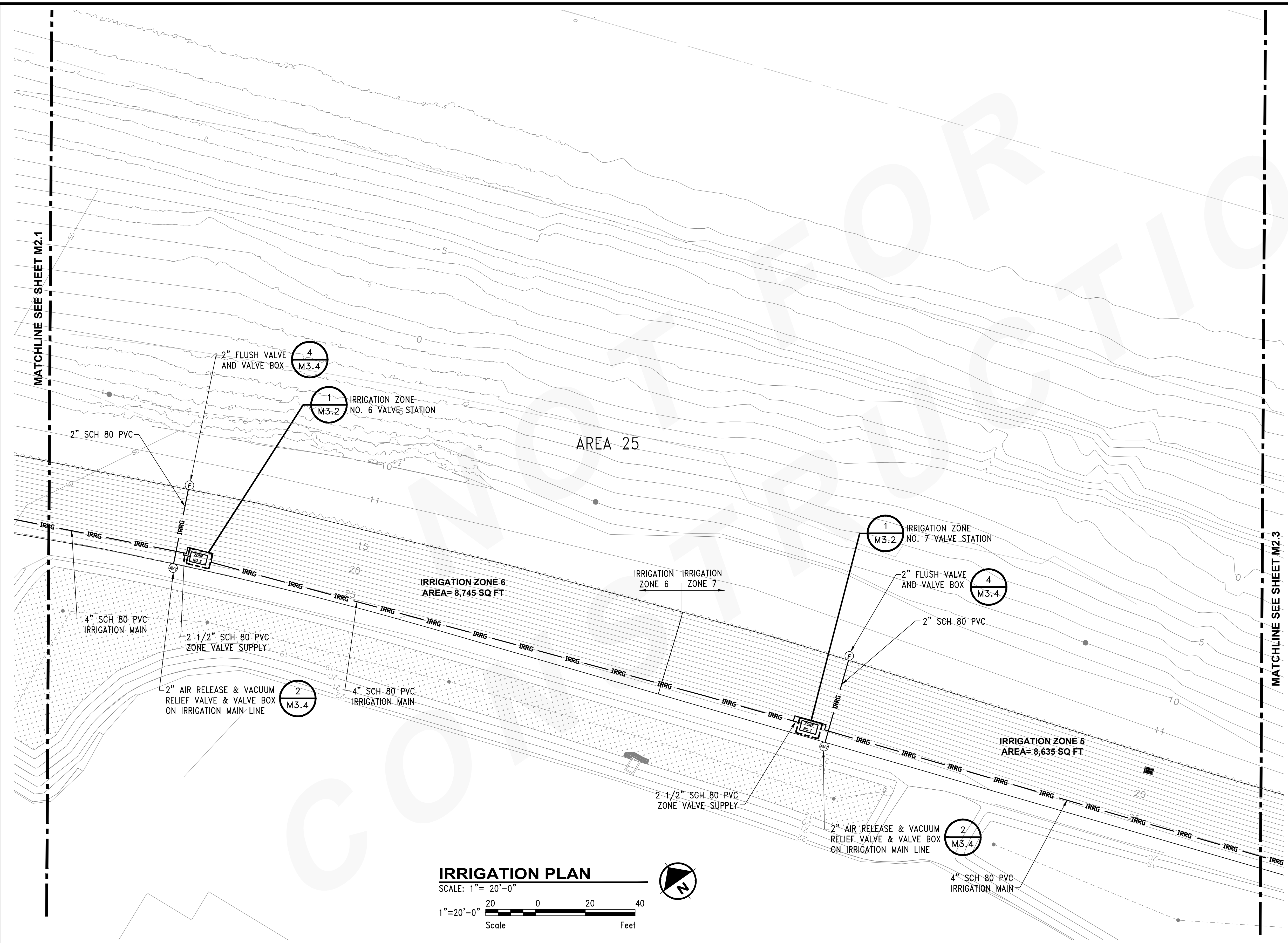


PROJECT MANAGER:
TICSON MACH
 PROJECT ENGINEER:
JOANNA HINGLE
 DESIGN ENGINEER:
JAY BABB
 DRAFTER:
JAY BABB
 SCALE:
AS NOTED
 DATE:
 CHECKED/APPROVED BY:
RANDALL SWEET

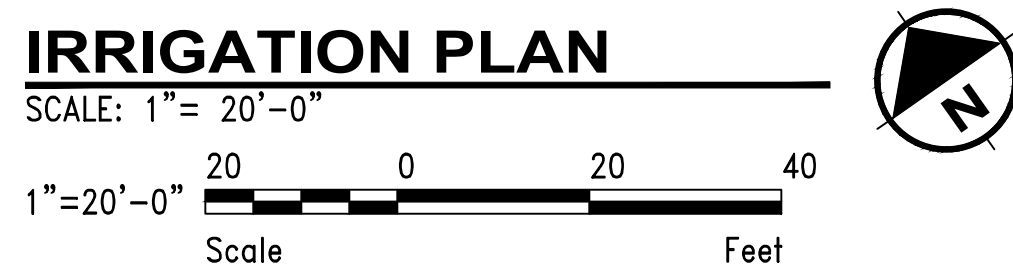
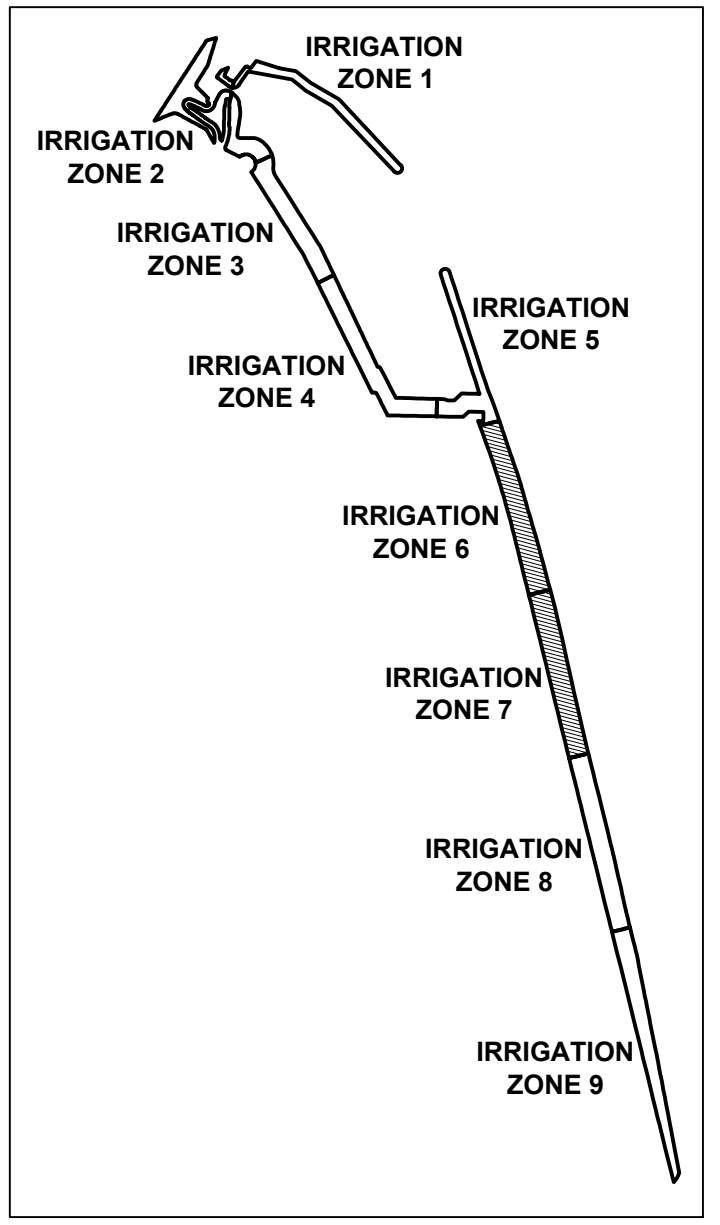
Port of Seattle MARITIME DIVISION
 PROJECT: SITE 23 & 25 RESTORATION PLANTING

SHEET TITLE: **LANDSCAPE IRRIGATION ENLARGED PLAN - ZONE 6**
PVC LATERALS AND EMITTER TUBING LAYOUT

WORK PROJECT NO.
103944 (PIER - 104872)
 CONSULTANT'S NO.
 PORT OF SEATTLE NO.
117-1201 **M2.1.3**



NOTES:
 1. FOR GENERAL IRRIGATION SYSTEM NOTES SEE DWG. M1.1.



CALL 2 DAYS BEFORE YOU DIG
 1-800-424-5555

PROJECT ENGR./ARCH:
DESIGNER:
DRAWN BY:
SCALE:
DATE:
CHECKED BY:
CHECKED/APPROVED BY:

REVISIONS							
NO.	DATE	BY	DESCRIPTION	APP'D	NO.	DATE	BY
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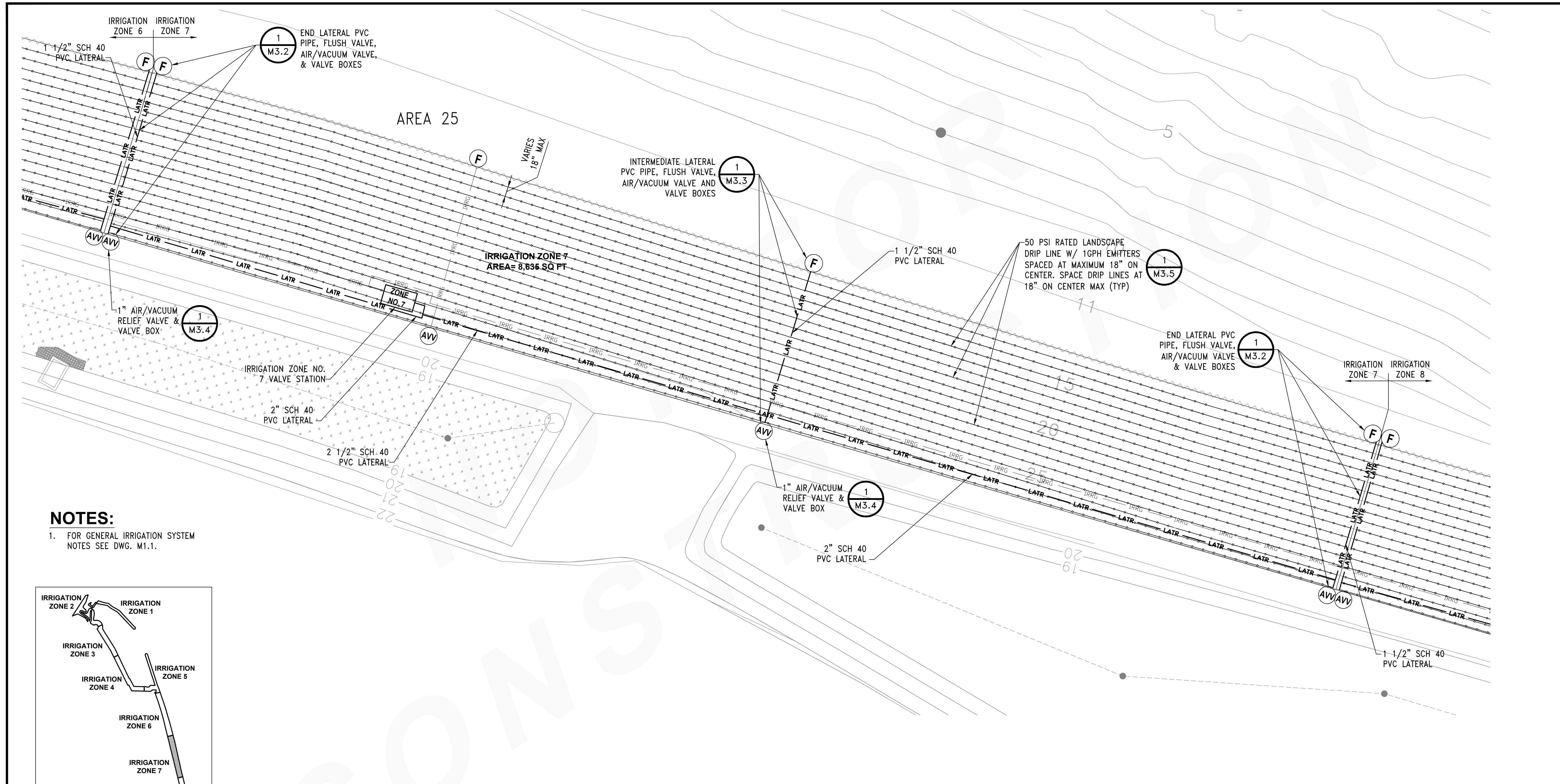
PROJECT MANAGER:
 TICSON MACH
 PROJECT ENGINEER:
 JOANNA HINGLE
 DESIGN ENGINEER:
 JAY BABB
 DRAFTER:
 JAY BABB
 SCALE:
 AS NOTED
 DATE:
 CHECKED/APPROVED BY:
 RANDALL SWEET

Port of Seattle MARITIME DIVISION

PROJECT: SITE 23 & 25 RESTORATION PLANTING

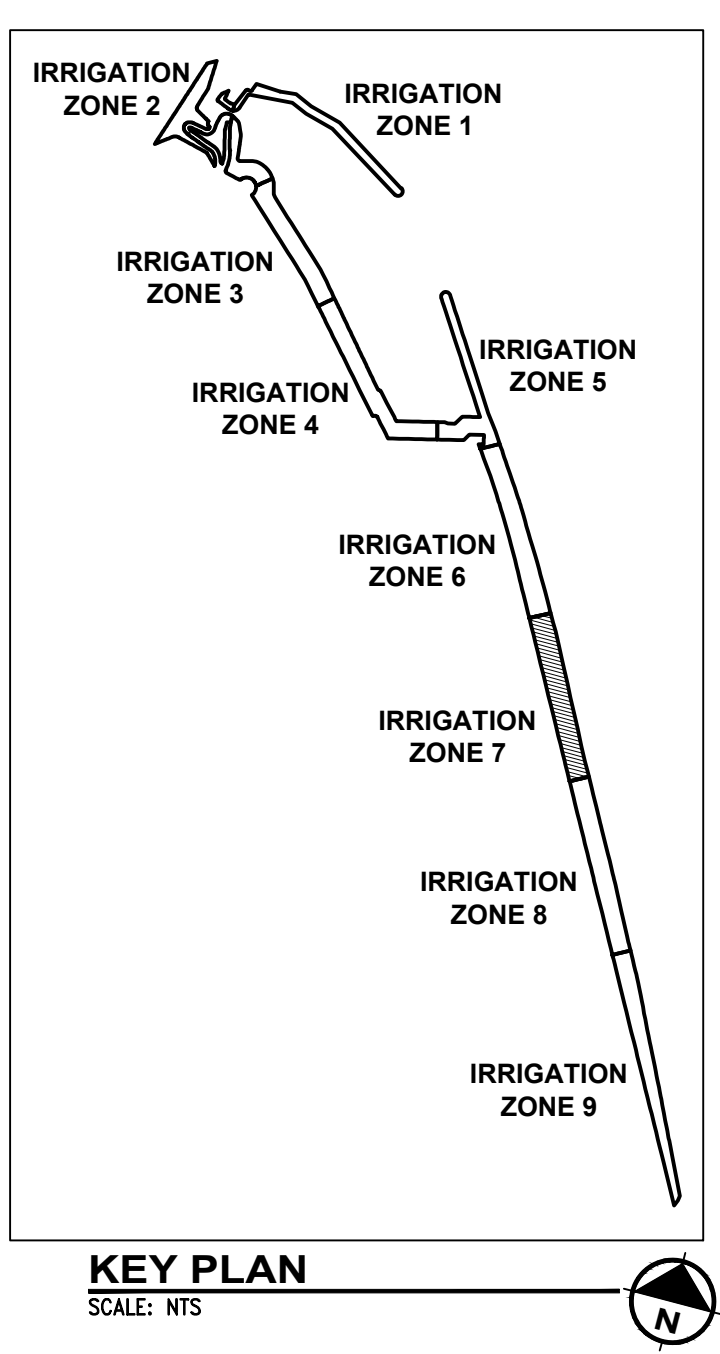
SHEET TITLE: LANDSCAPE IRRIGATION PLAN - IRRIGATION WATER SUPPLY MAIN AND ZONE VALVE LOCATIONS

WORK PROJECT NO.
 103944 (PIER - 104872)
 CONSULTANT'S NO.
 PORT OF SEATTLE NO.
 117-1201 **M2.2**



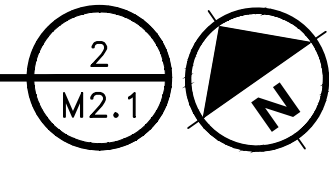
NOTES:

- 1. FOR GENERAL IRRIGATION SYSTEM NOTES SEE DWG. M1.1.



ENLARGED PLAN

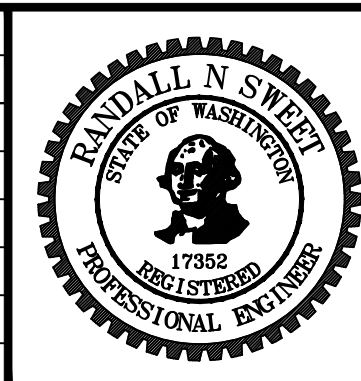
IRRIGATION ZONE 7
 SCALE: 1" = 10'-0"
 1" = 10'-0"



CALL 2 DAYS BEFORE YOU DIG
 1-800-424-5555

PROJECT ENGR./ARCH:
DESIGNER:
DRAWN BY:
SCALE:
DATE:
CHECKED BY:
CHECKED/APPROVED BY:

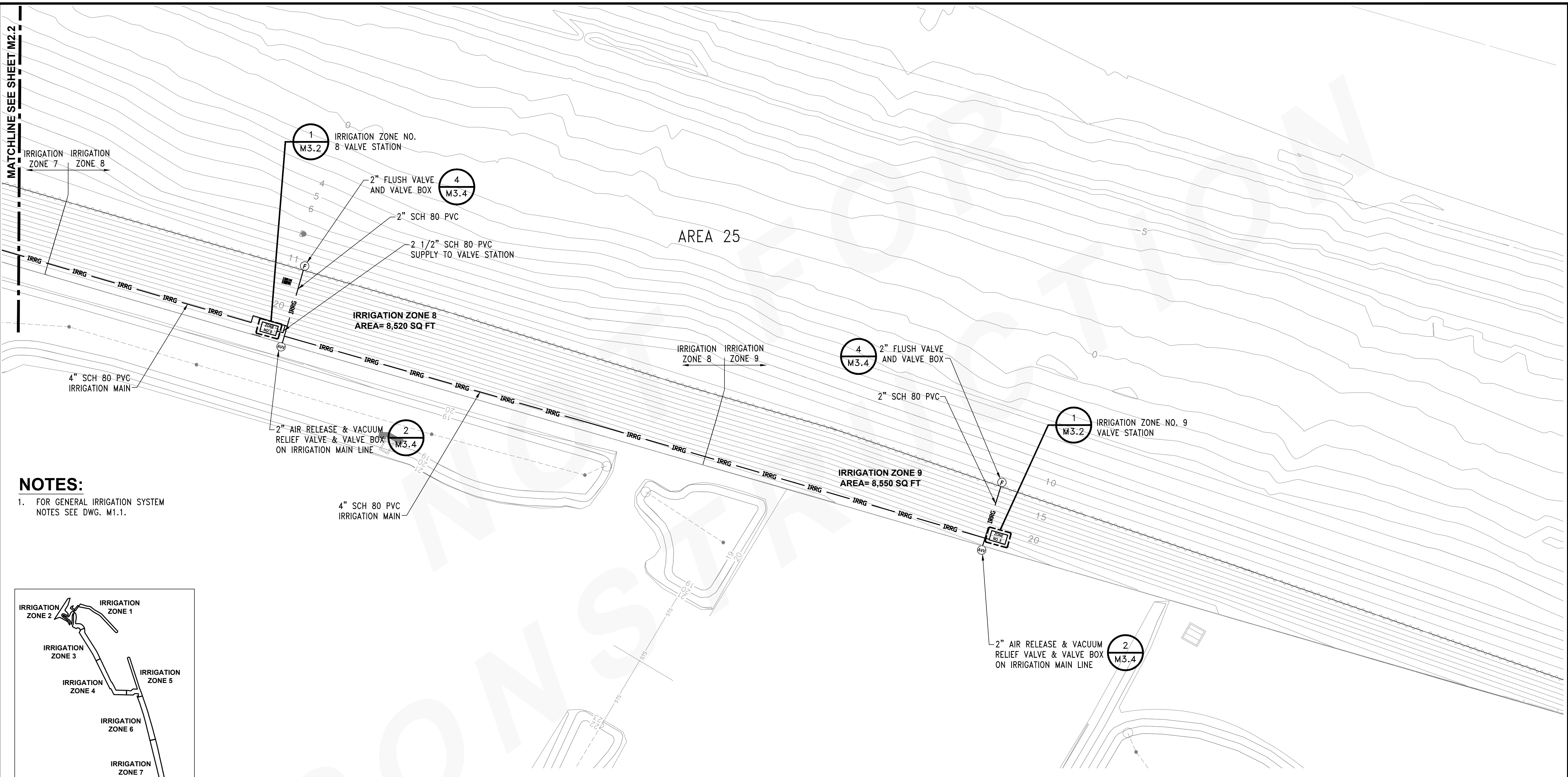
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NO.	DATE	BY	DESCRIPTION	APP'D	NO.	DATE	BY
.	1/27/17		100% REVIEW SUBMITTAL				
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PROJECT MANAGER:
TICSON MACH
 PROJECT ENGINEER:
JOANNA HINGLE
 DESIGN ENGINEER:
JAY BABB
 DRAFTER:
JAY BABB
 SCALE:
AS NOTED
 DATE:
 CHECKED/APPROVED BY:
RANDALL SWEET

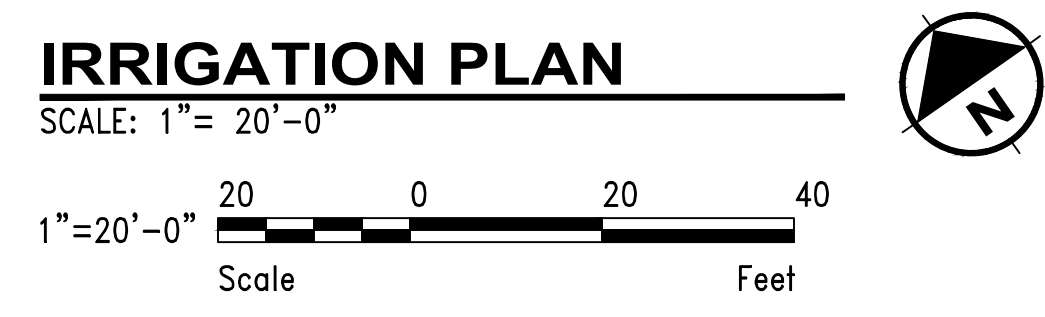
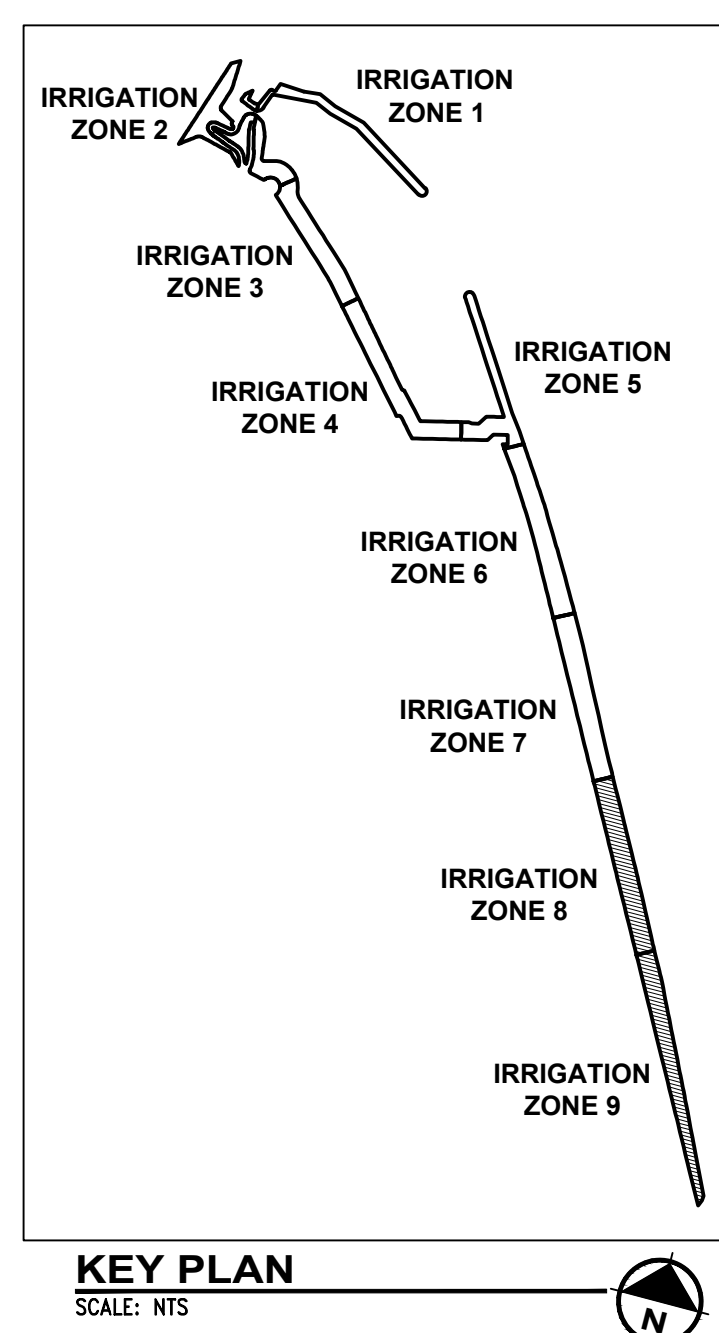
Port of Seattle MARITIME DIVISION
 PROJECT: SITE 23 & 25 RESTORATION PLANTING
 SHEET TITLE: LANDSCAPE IRRIGATION ENLARGED PLANS - ZONE 7
 PVC LATERALS AND EMITTER TUBING LAYOUT

WORK PROJECT NO.
103944 (PIER - 104872)
 CONSULTANT'S NO.
 PORT OF SEATTLE NO.
117-1201 **M2.2.1**



MATCHLINE SEE SHEET M2.2

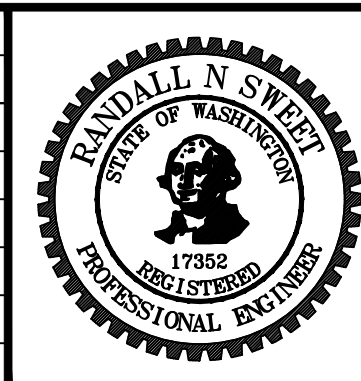
NOTES:
 1. FOR GENERAL IRRIGATION SYSTEM NOTES SEE DWG. M1.1.



CALL 2 DAYS BEFORE YOU DIG
 1-800-424-5555

PROJECT ENGR./ARCH:
DESIGNER:
DRAWN BY:
SCALE:
DATE:
CHECKED BY:
CHECKED/APPROVED BY:

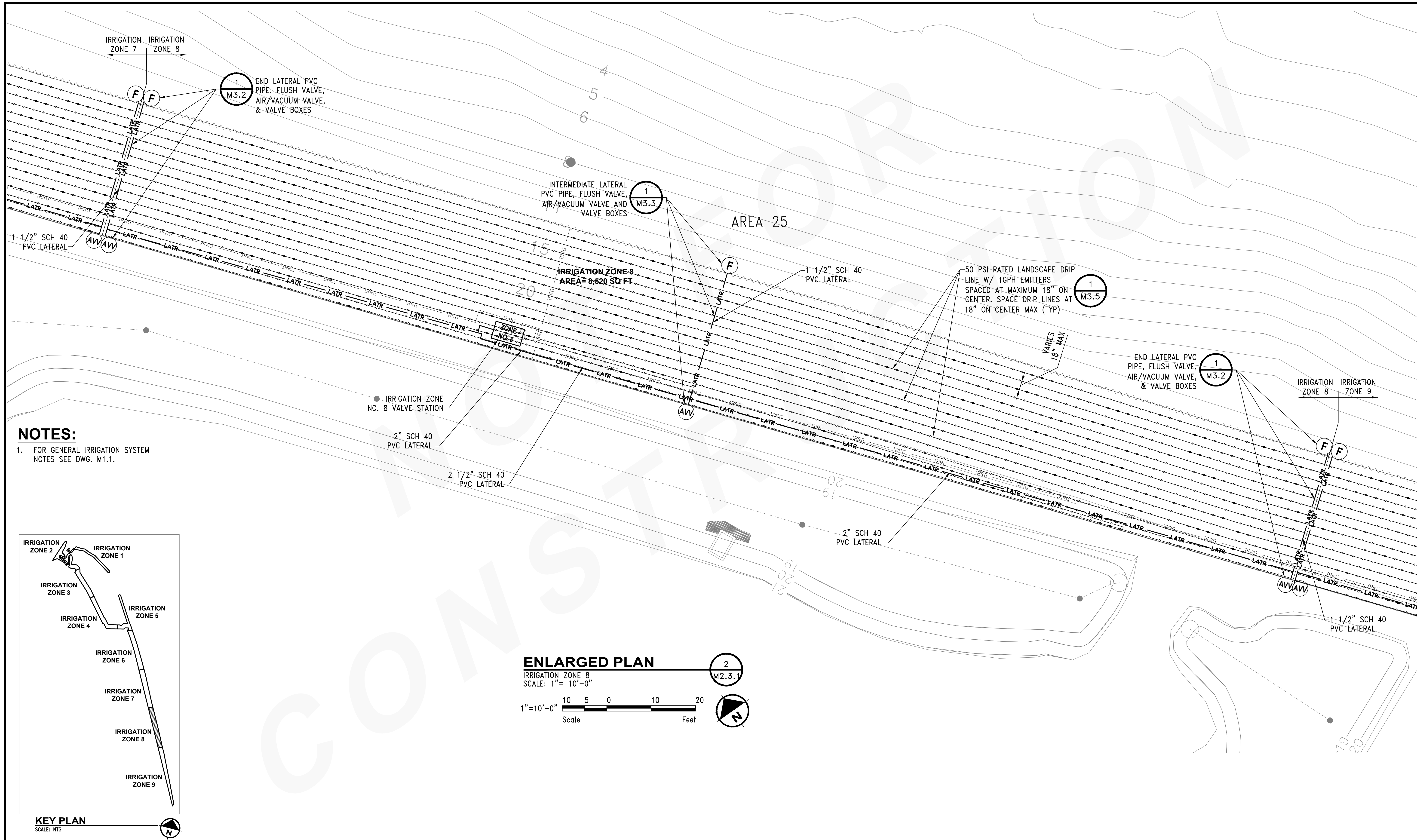
REVISIONS							
NO.	DATE	BY	DESCRIPTION	APP'D	NO.	DATE	BY
1	1/27/17		100% REVIEW SUBMITTAL				



PROJECT MANAGER:
TICSON MACH
 PROJECT ENGINEER:
JOANNA HINGLE
 DESIGN ENGINEER:
JAY BABB
 DRAFTER:
JAY BABB
 SCALE:
AS NOTED
 DATE:
 CHECKED/APPROVED BY:
RANDALL SWEET

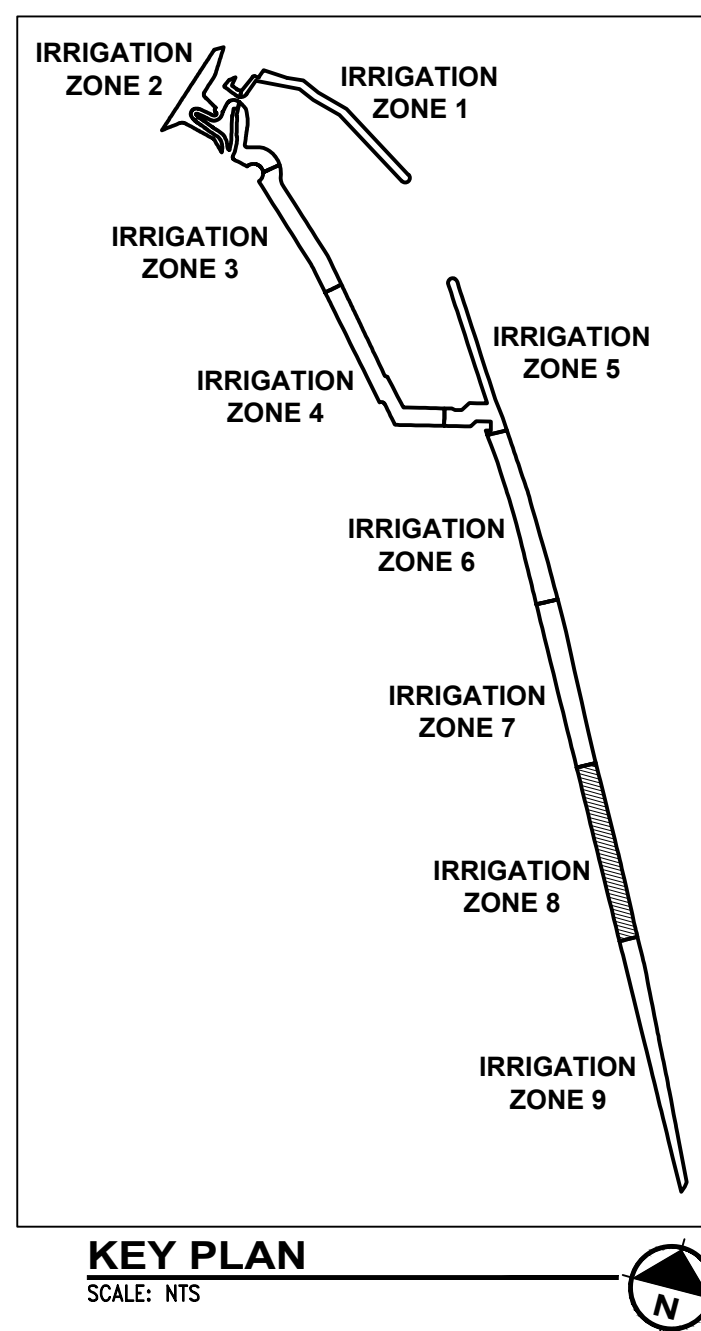
Port of Seattle MARITIME DIVISION
 PROJECT: SITE 23 & 25 RESTORATION PLANTING
 SHEET TITLE: LANDSCAPE IRRIGATION PLAN - IRRIGATION WATER SUPPLY MAIN AND ZONE VALVE LOCATIONS

WORK PROJECT NO.
103944 (PIER - 104872)
 CONSULTANT'S NO.
 PORT OF SEATTLE NO.
117-1201 **M2.3**



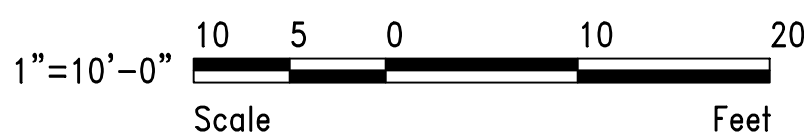
NOTES:

- FOR GENERAL IRRIGATION SYSTEM NOTES SEE DWG. M1.1.



ENLARGED PLAN

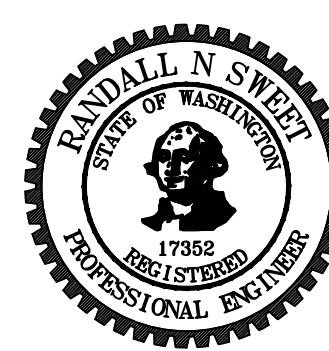
IRRIGATION ZONE 8
SCALE: 1" = 10'-0"



CALL 2 DAYS
BEFORE YOU DIG
1-800-424-5555

PROJECT ENGR./ARCH:
DESIGNER:
DRAWN BY:
SCALE:
DATE:
CHECKED BY:
CHECKED/APPROVED BY:

REVISIONS									
NO.	DATE	BY	DESCRIPTION	APP'D	NO.	DATE	BY	DESCRIPTION	APP'D
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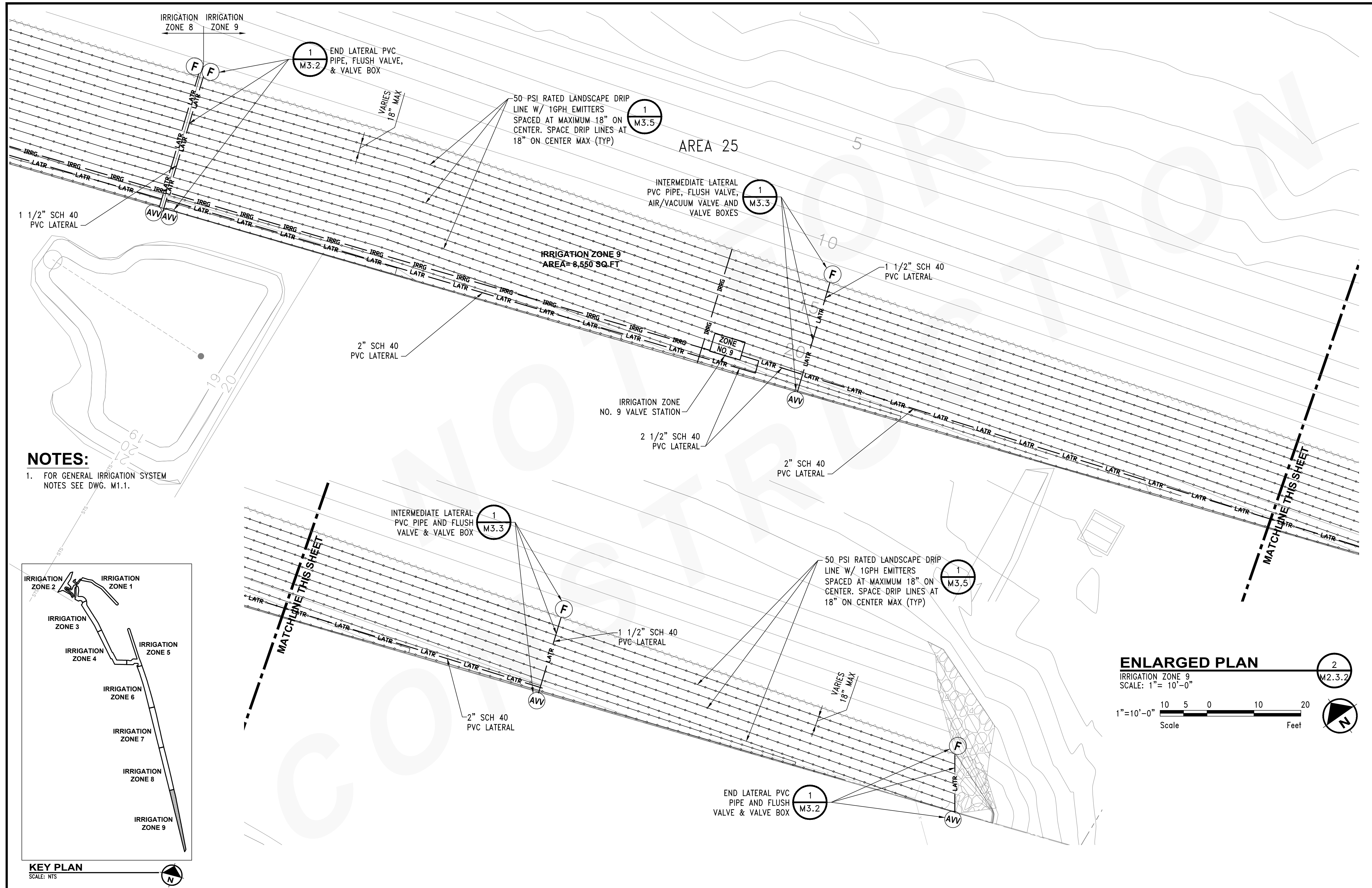


PROJECT MANAGER:
TICSON MACH
PROJECT ENGINEER:
JOANNA HINGLE
DESIGN ENGINEER:
JAY BABB
DRAWER:
JAY BABB
SCALE:
AS NOTED
DATE:
CHECKED/APPROVED BY:
RANDALL SWEET

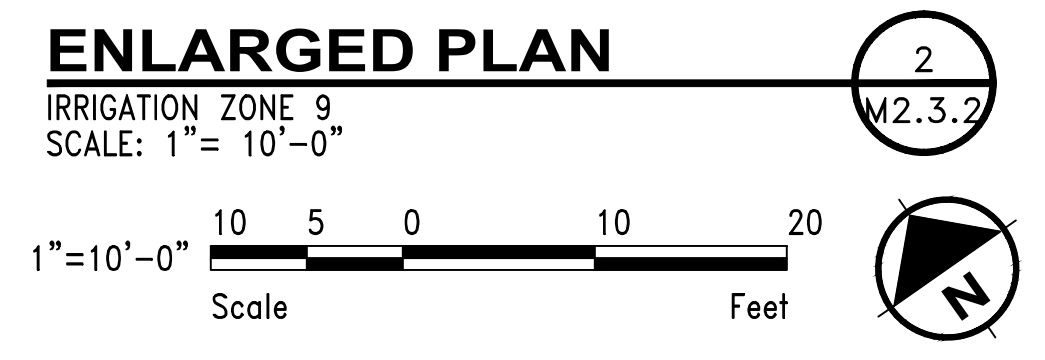
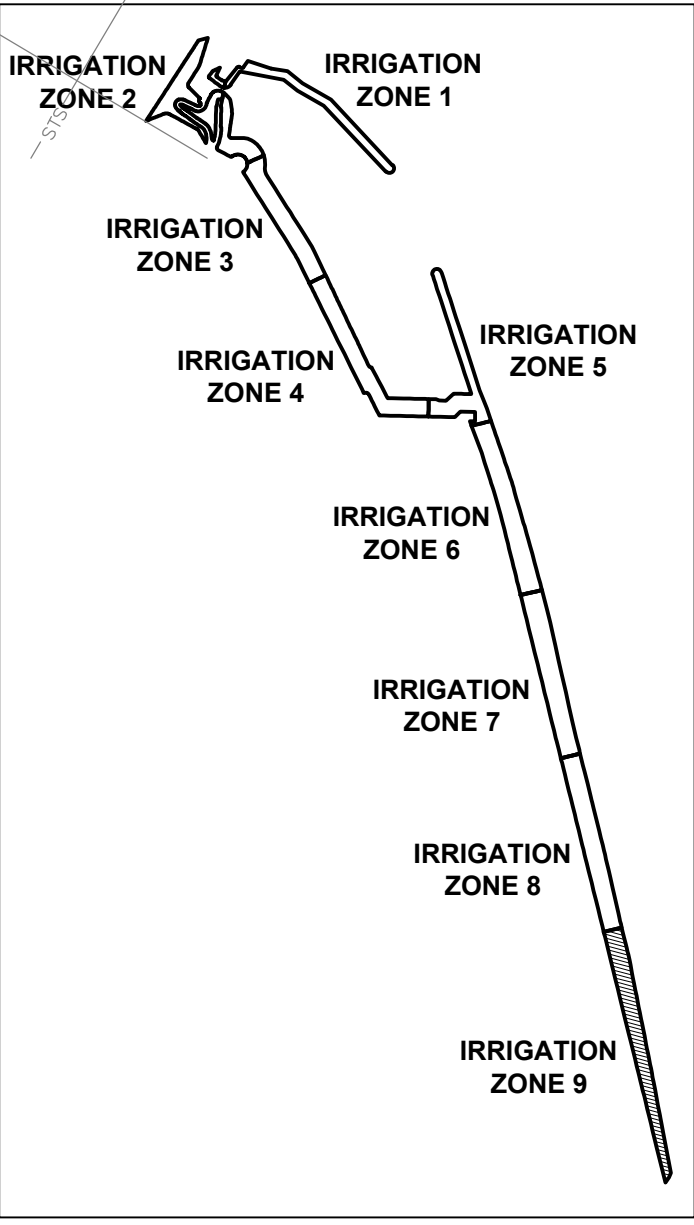
Port of Seattle MARITIME DIVISION
PROJECT: SITE 23 & 25 RESTORATION PLANTING

SHEET TITLE: **LANDSCAPE IRRIGATION ENLARGED PLAN - ZONE 8
PVC LATERALS AND EMITTER TUBING LAYOUT**

WORK PROJECT NO.
103944 (PIER - 104872)
CONSULTANT'S NO.
PORT OF SEATTLE NO.
117-1201 **M2.3.1**



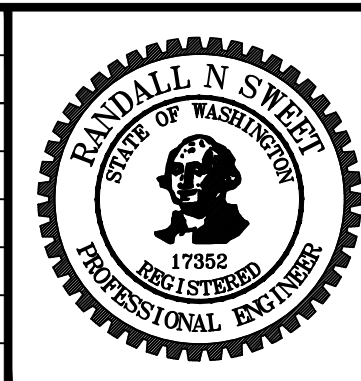
NOTES:
 1. FOR GENERAL IRRIGATION SYSTEM NOTES SEE DWG. M1.1.



CALL 2 DAYS BEFORE YOU DIG
 1-800-424-5555

PROJECT ENGR./ARCH:
 DESIGNER:
 DRAWN BY:
 SCALE:
 DATE:
 CHECKED BY:
 CHECKED/APPROVED BY:

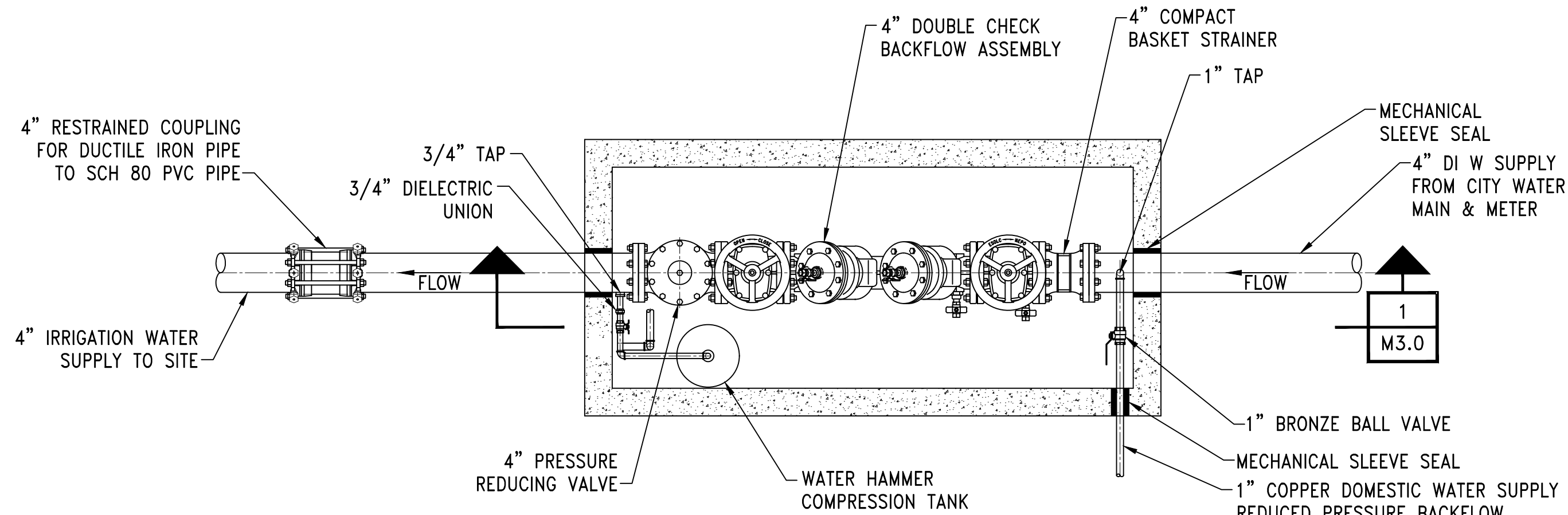
REVISIONS									
NO.	DATE	BY	DESCRIPTION	APP'D	NO.	DATE	BY	DESCRIPTION	APP'D
1	1/27/17		100% REVIEW SUBMITTAL						



PROJECT MANAGER:
 TICSÓN MACH
 PROJECT ENGINEER:
 JOANNA HINGLE
 DESIGN ENGINEER:
 JAY BABB
 DRAFTER:
 JAY BABB
 SCALE:
 AS NOTED
 DATE:
 CHECKED/APPROVED BY:
 RANDALL SWEET

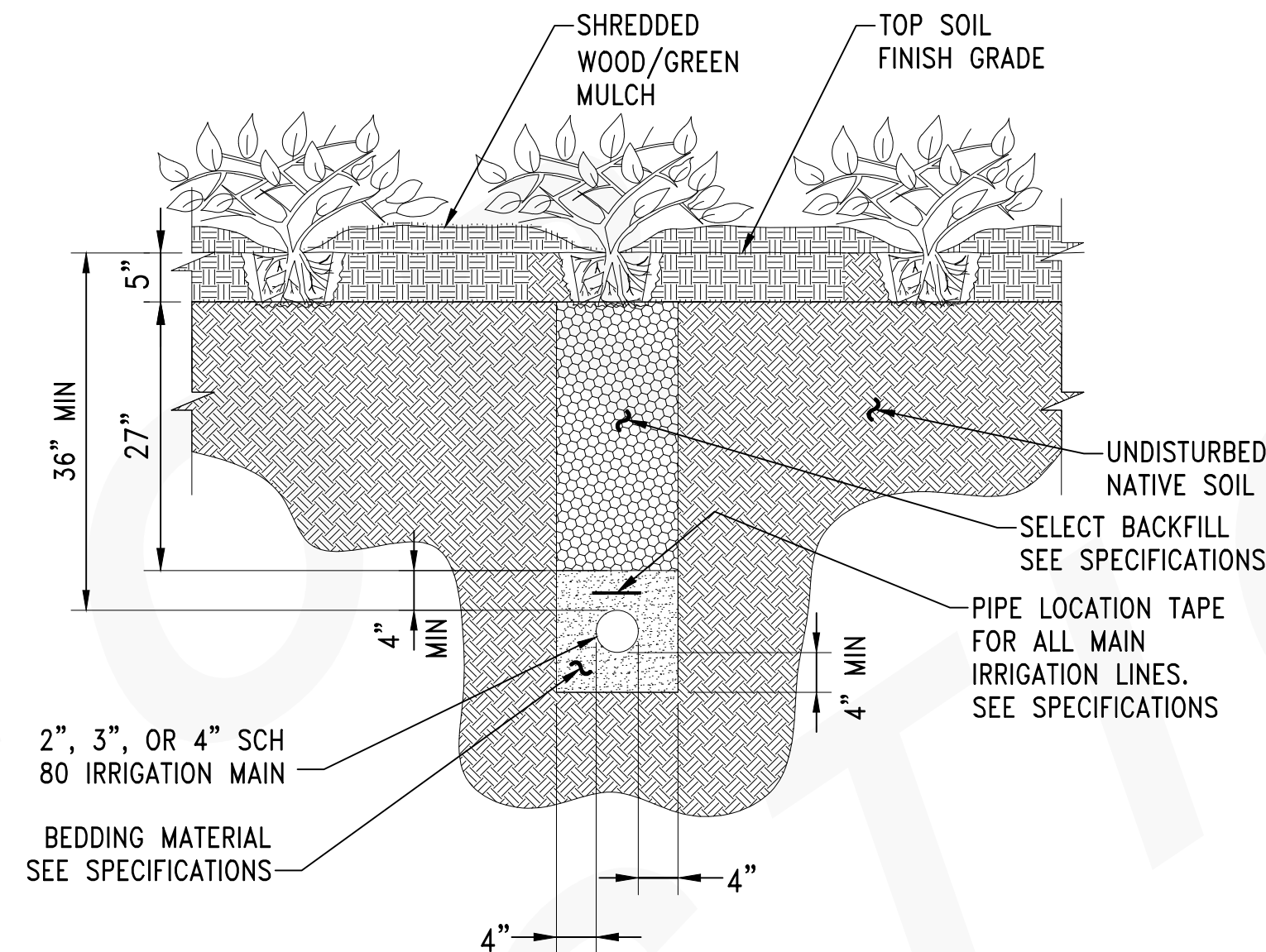
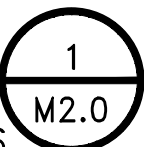
Port of Seattle MARITIME DIVISION
 PROJECT: SITE 23 & 25 RESTORATION PLANTING
 SHEET TITLE: LANDSCAPE IRRIGATION ENLARGED PLAN - ZONE 9
 PVC LATERALS AND EMITTER TUBING LAYOUT

WORK PROJECT NO.
 103944 (PIER - 104872)
 CONSULTANT'S NO.
 PORT OF SEATTLE NO.
 117-1201 **M2.3.2**



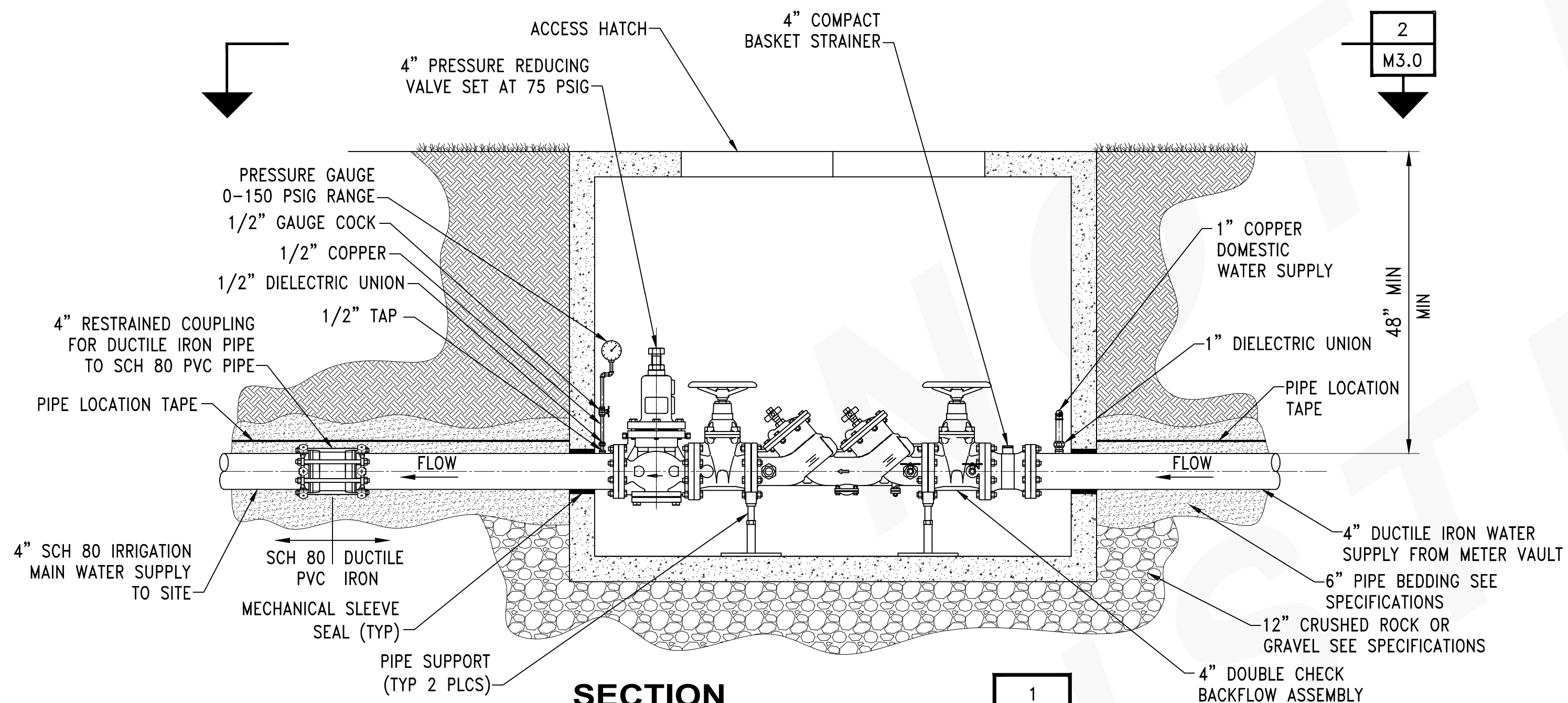
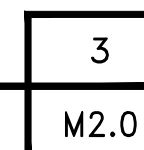
DETAIL

PLAN - IRRIGATION WATER AND DOMESTIC WATER DOUBLE CHECK BACKFLOW PREVENTER ASSEMBLIES
SCALE: 3/4"=1'-0"



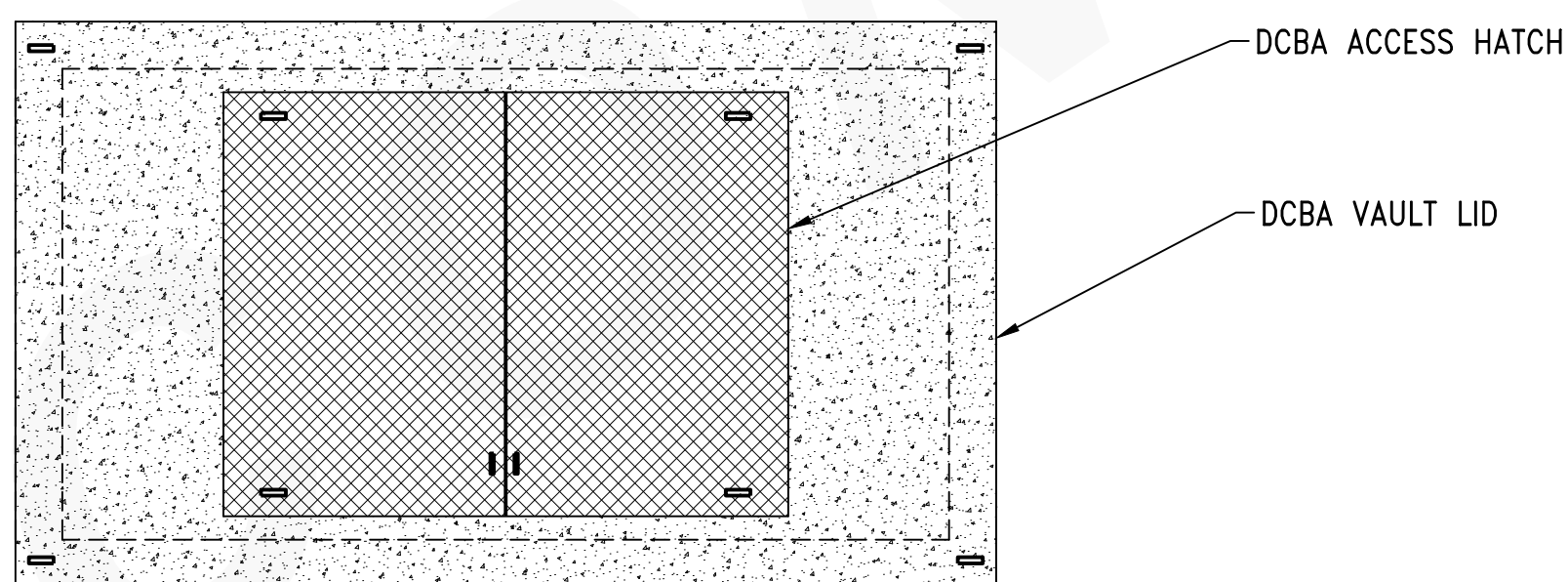
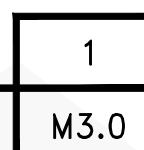
SECTION

TYPICAL IRRIGATION MAIN LINE PIPE TRENCH
SCALE: 3/4"=1'-0"



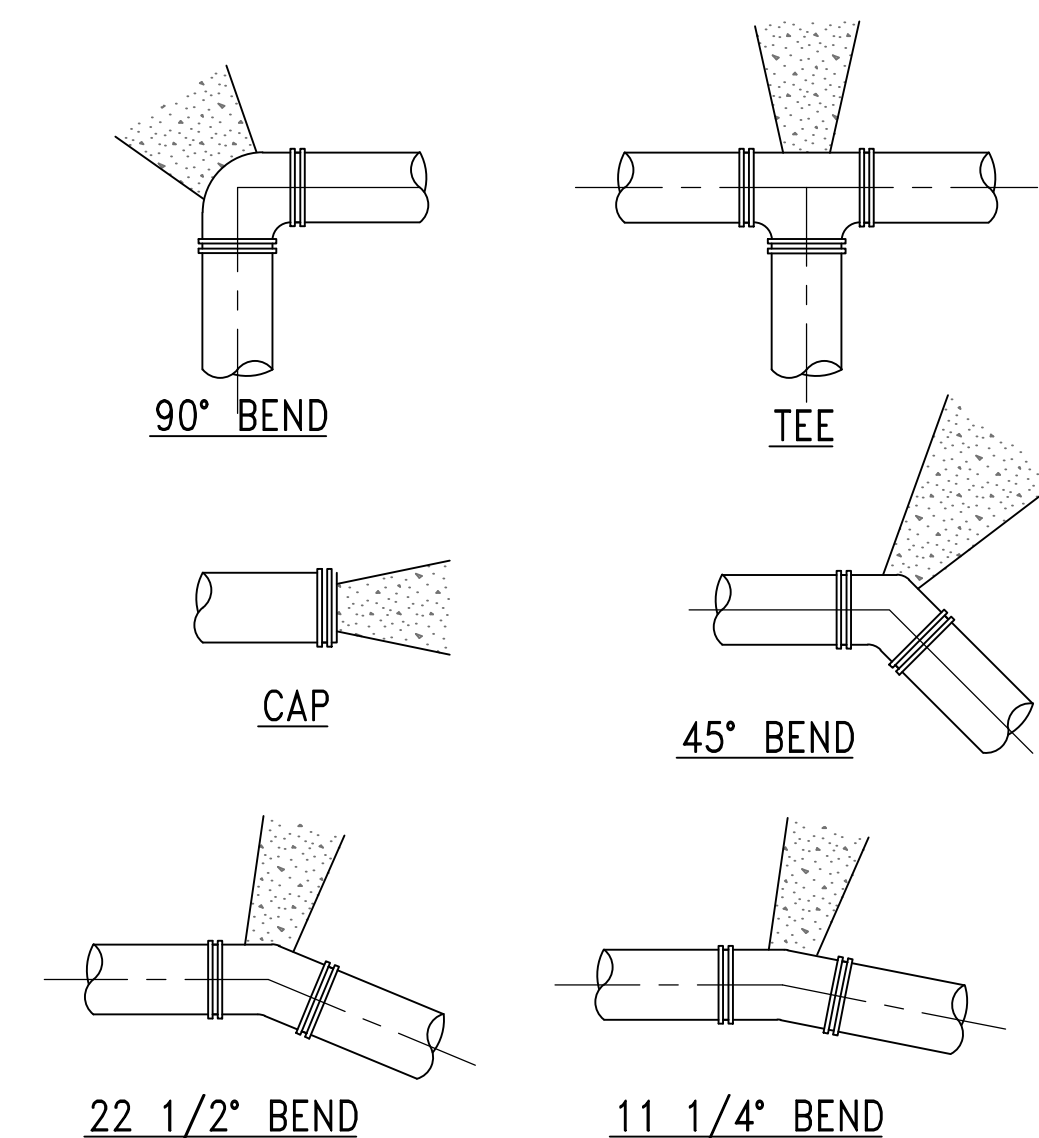
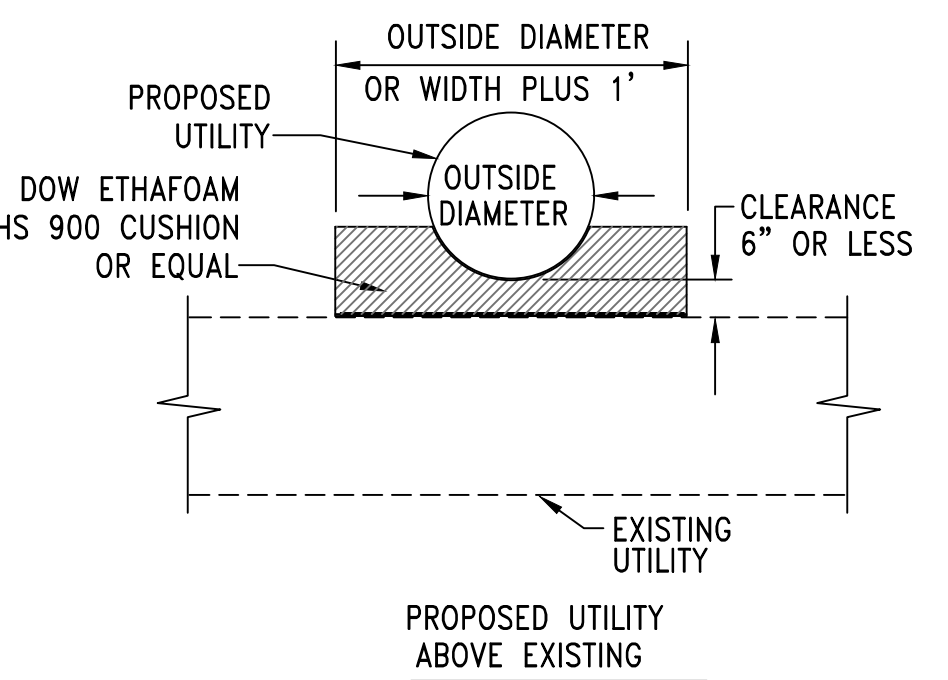
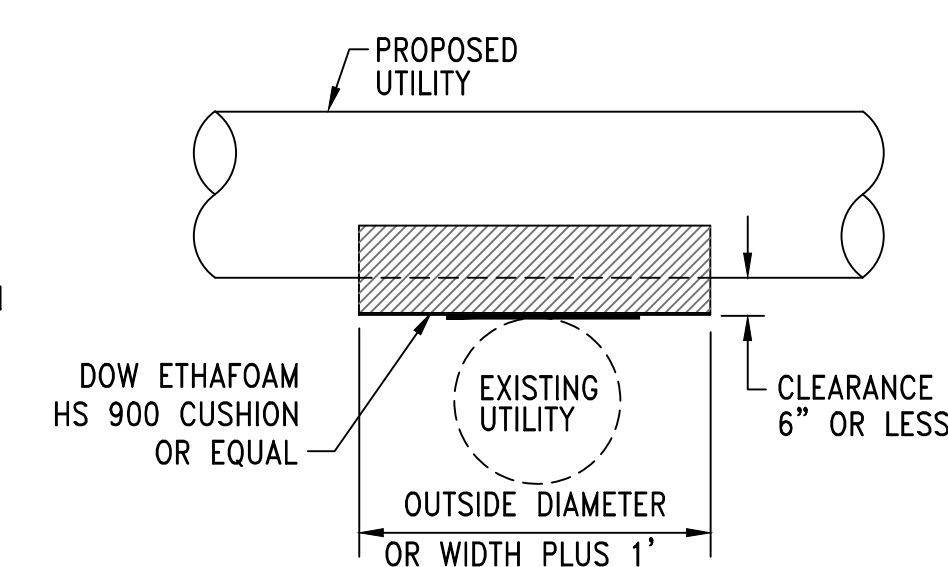
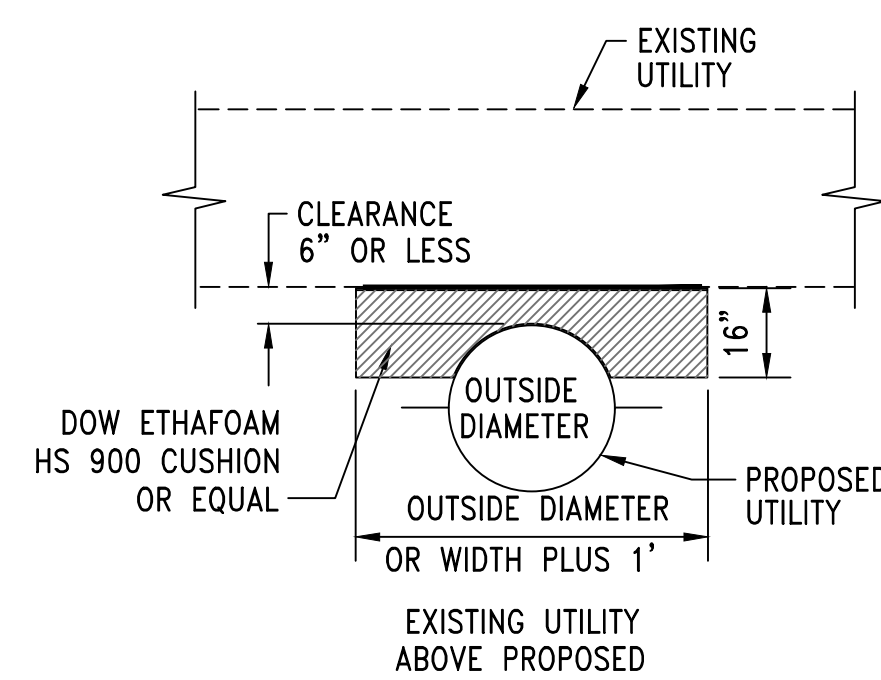
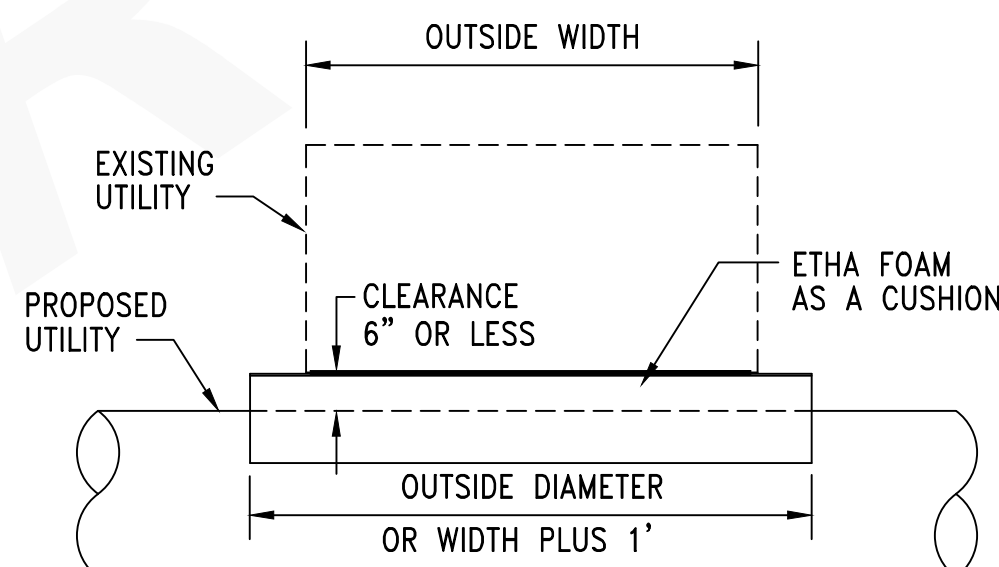
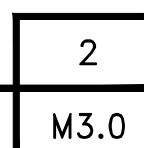
SECTION

DOUBLE CHECK VALVE ASSEMBLIES AND VAULT
SCALE: 3/4"=1'-0"



SECTION

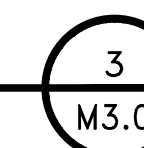
TYPICAL DCBA VAULT LID
SCALE: 3/4"=1'-0"



AREA OF BEARING FACE OF CONCRETE THRUST BLOCKS			
PIPE SIZE IN	90° BEND SQ FT	45° BEND SQ FT	TEES, PLUGS, CAPS, AND HYDRANTS SQ FT
4	3	2	2
6	6	3	4
8	11	6	8
10	17.1	9.27	12
12	24.5	13.2	17.22

DETAIL

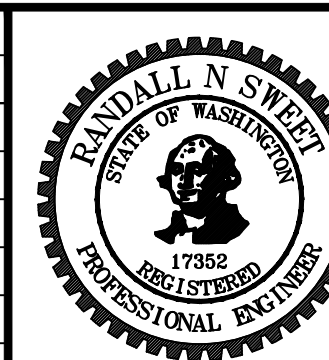
THRUST BLOCKING DETAILS
SCALE: NONE



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SCALE:
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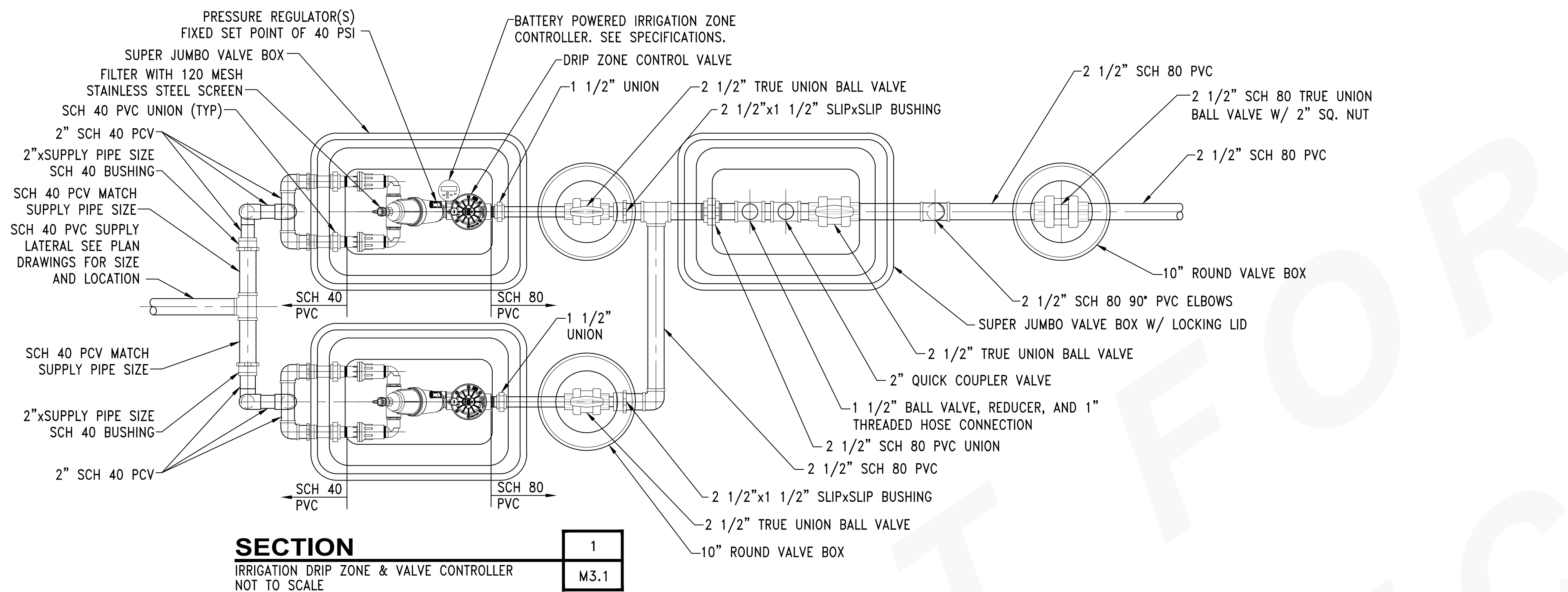
REVISIONS					
NO.	DATE	BY	DESCRIPTION	APP'D	NO.
1	1/27/17		100% REVIEW SUBMITTAL		



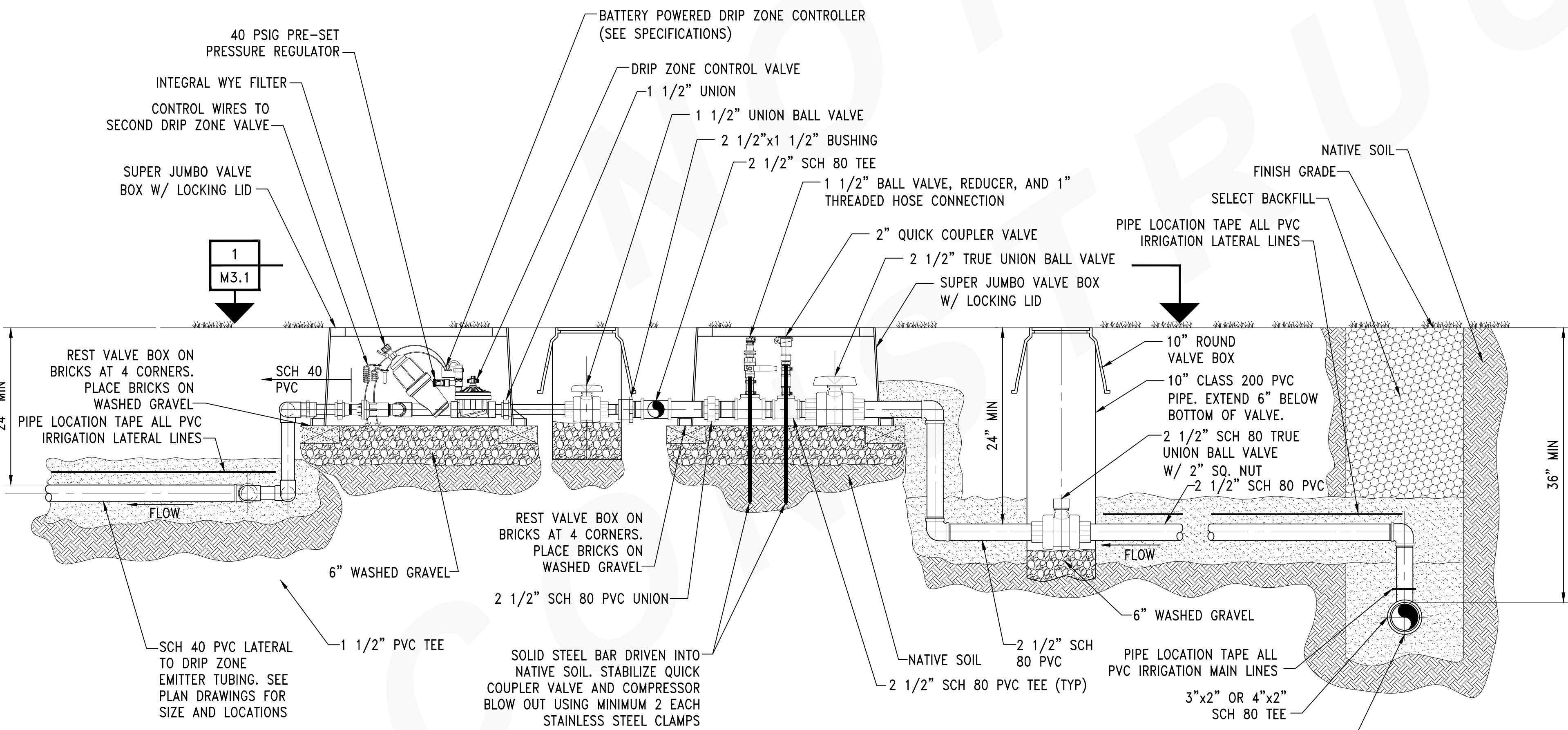
PROJECT MANAGER:
TICSON MACH
PROJECT ENGINEER:
JOANNA HINGLE
DESIGN ENGINEER:
JAY BABB
DRAWN BY:
JAY BABB
SCALE:
AS NOTED
DATE:
CHECKED/APPROVED BY:
RANDALL SWEET

Port of Seattle MARITIME DIVISION
PROJECT: SITE 23 & 25 RESTORATION PLANTING
SHEET TITLE: LANDSCAPE IRRIGATION SECTIONS & DETAILS - SHEET 1

WORK PROJECT NO.
103944 (PIER - 104872)
CONSULTANT'S NO.
PORT OF SEATTLE NO.
117-1201 M3.0



SECTION 1
IRRIGATION DRIP ZONE & VALVE CONTROLLER
NOT TO SCALE



DETAIL 1
DRIP ZONE IRRIGATION VALVES, VALVE BOXES AND CONTROLS
SCALE: NONE

DRIP ZONE CONTROL VALVE SCHEDULE:

IRRIGATION ZONE	DRIP ZONE VALVE SIZE (INCH)	NUMBER OF VALVES	VALVE TYPE	TOTAL ZONE FLOWRATE (GPM)	PRESS REQD (PSI)	PRESS RATING (PSI)	INLET OUTLET CONN	NOTES
1	1 1/2	1	GLOBE	43	60-80	220	NPT	1, 2, 3, 4, 5
2	1 1/2	2	GLOBE	75	60-80	220	NPT	1, 2, 3, 4, 5
3	1 1/2	2	GLOBE	55	60-80	220	NPT	1, 2, 3, 4, 5
4	1 1/2	2	GLOBE	71	60-80	220	NPT	1, 2, 3, 4, 5
5	1 1/2	2	GLOBE	52	60-80	220	NPT	1, 2, 3, 4, 5
6	1 1/2	2	GLOBE	78	60-80	220	NPT	1, 2, 3, 4, 5
7	1 1/2	2	GLOBE	77	60-80	220	NPT	1, 2, 3, 4, 5
8	1 1/2	2	GLOBE	76	60-80	220	NPT	1, 2, 3, 4, 5
9	1 1/2	2	GLOBE	76	60-80	220	NPT	1, 2, 3, 4, 5

NOTES:

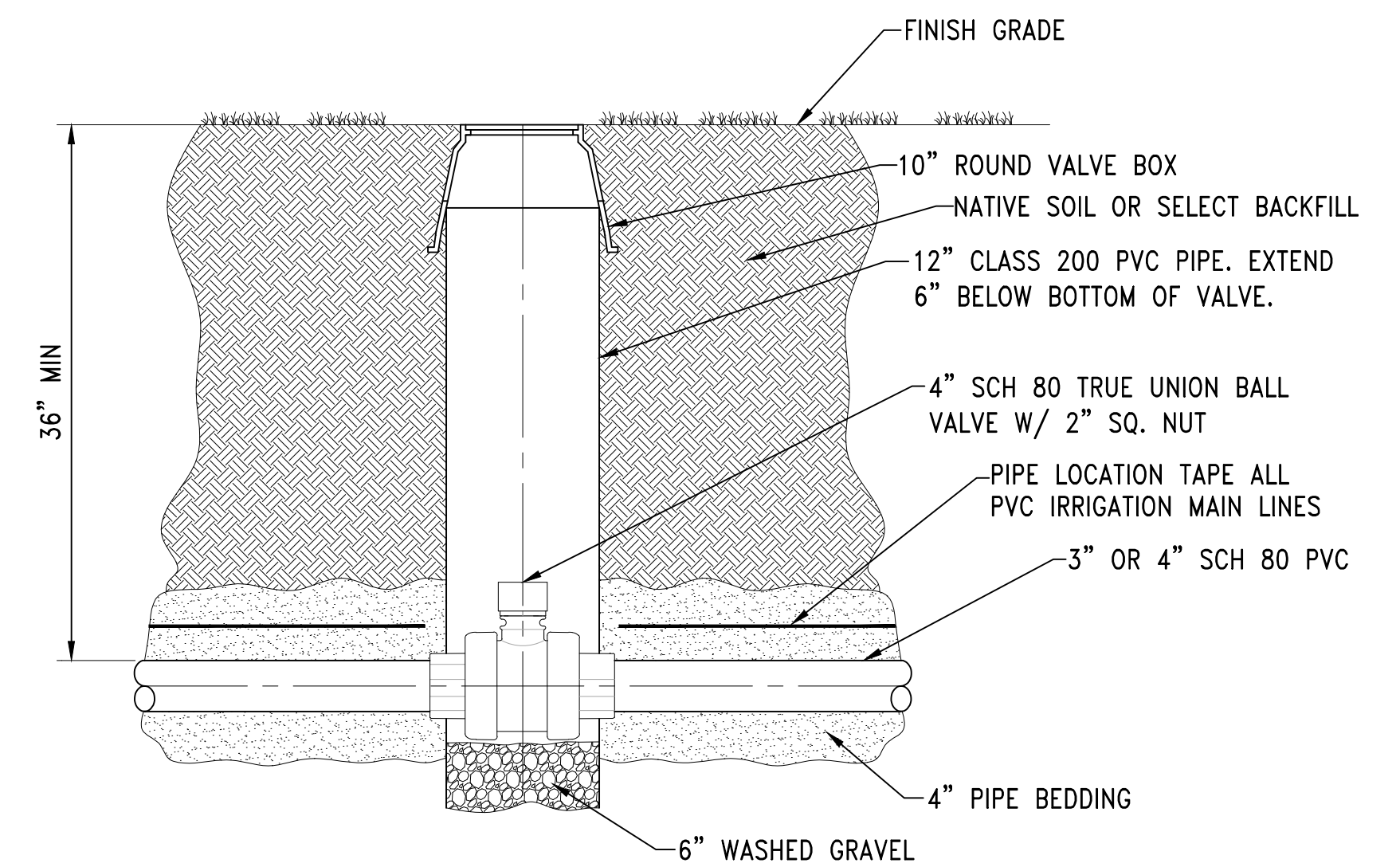
- DC LATCHING SOLENOID.
- 120 MESH STAINLESS STEEL FILTER SCREEN.
- PRESSURE REGULATION: 40 PSI.
- BATTERY POWERED CONTROL TIMER.
- THE NUMBER AND SIZE OF VALVES MAY VARY DEPENDING UPON MANUFACTURER. VALVE SIZE AND NUMBER SHALL BE SELECTED BY THE CONTRACTOR TO MEET THE TOTAL ZONE FLOW RATE SPECIFIED.

PVC ISOLATION VALVE SCHEDULE:

VALVE	SIZE (INCH)	VALVE TYPE	FLOW (GPM)	PRESS RATING (PSI)	MATERIAL	INLET OUTLET	OPTIONS
IV1	4	BALL	160	230	SCH 80 PVC	SOLV	1, 2
IV2	4	BALL	160	230	SCH 80 PVC	SOLV	1, 2

NOTES:

- TRUE UNION STANDARD TYPE.
- 2" SQUARE/T-STYLE OPERATOR NUT.



DETAIL 2
IRRIGATION MAIN LINE ISOLATION VALVE AND VALVE BOX
SCALE: NONE

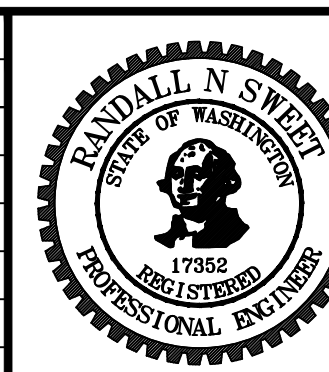
NOTES:

- DO NOT ALLOW VALVE BOXES TO REST ON PIPE.
- VALVE BOXES SHALL BE FLUSH WITH FINISH GRADE.

CALL 2 DAYS BEFORE YOU DIG
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PROJECT ENGR./ARCH:
DESIGNER:
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SCALE:
DATE:
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1	1/27/17		100% REVIEW SUBMITTAL		

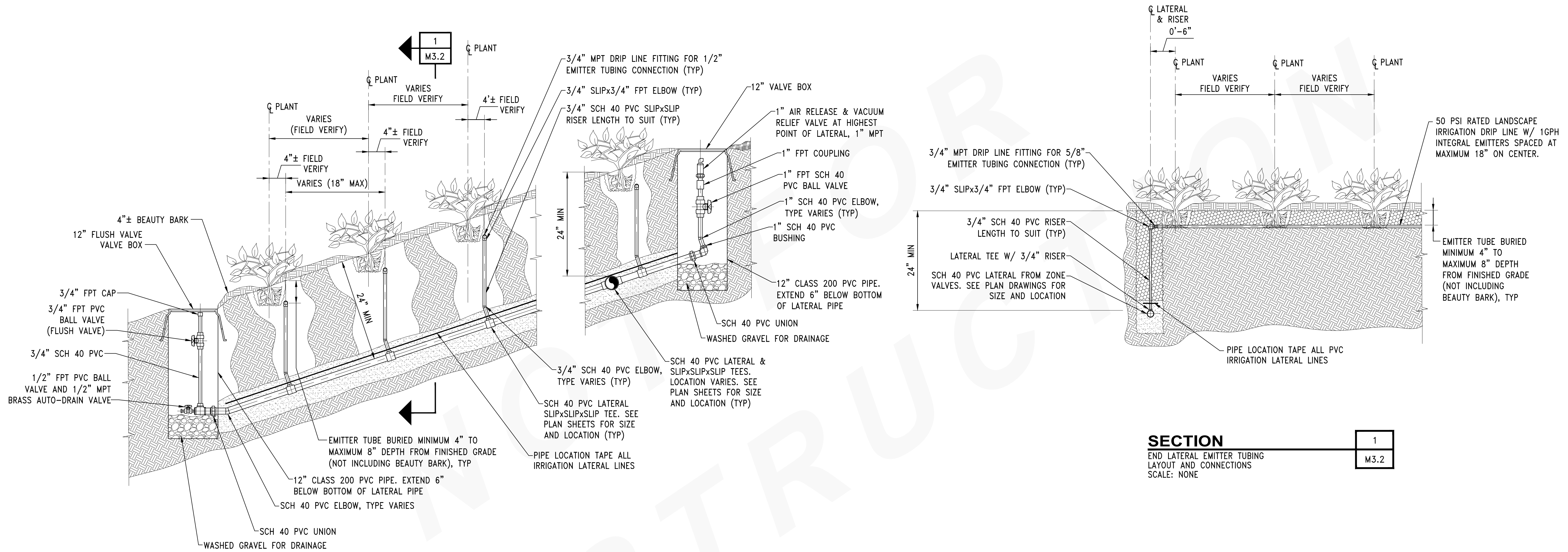


PROJECT MANAGER:
TICSON MACH
PROJECT ENGINEER:
JOANNA HINGLE
DESIGN ENGINEER:
JAY BABB
DRAWN BY:
JAY BABB
SCALE:
AS NOTED
DATE:
CHECKED/APPROVED BY:
RANDALL SWEET

Port of Seattle MARITIME DIVISION
PROJECT: SITE 23 & 25 RESTORATION PLANTING

SHEET TITLE: LANDSCAPE IRRIGATION DETAILS - SHEET 2

WORK PROJECT NO.
103944 (PIER - 104872)
CONSULTANT'S NO.
PORT OF SEATTLE NO.
117-1201 **M3.1**



SECTION
 END LATERAL EMITTER TUBING
 LAYOUT AND CONNECTIONS
 SCALE: NONE

DETAIL
 IRRIGATION ZONE END LATERAL PIPING, FLUSH
 VALVES, DRAIN VALVES, AIR/VACUUM VALVES,
 & EMITTER TUBE RISERS
 SCALE: NONE

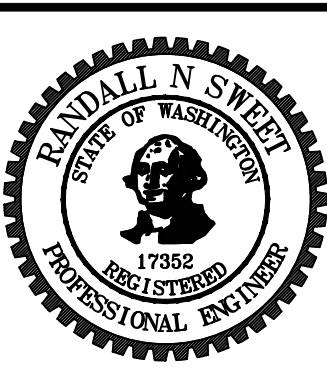
NOTES:

- REFER TO LANDSCAPE DRAWINGS FOR PLANT TYPE AND SPACING. ADJUST IRRIGATION SYSTEM LAYOUT TO MATCH FINAL PLANT LAYOUT.
- ALL LATERAL PVC LINES SHALL BE SLOPED TO DRAIN TO A FLUSH VALVE IN A VALVE BOX. A FLUSH VALVE AND AUTOMATIC DRAIN/CHECK VALVE SHALL BE PROVIDED AT THE LOWEST POINT OF EACH PVC LATERAL.
- ALL LATERAL PVC LINES SHALL BE INSTALLED AND SLOPED TO DRAIN SUCH THAT THE ENTIRE LENGTH OF PVC PIPE CAN BE FLUSHED PRIOR TO FULL PRESSURIZATION.
- PRIOR TO FULL PRESSURIZATION, OPEN ALL FLUSH VALVES WITHIN A ZONE AND FLUSH LINES UNTIL CLEAR OF ALL SEDIMENT AND DEBRIS.
- DO NOT ALLOW VALVE BOXES TO REST ON PIPE.
- VALVE BOXES SHALL BE FLUSH WITH FINISH GRADE (TOP OF SOIL). CLEAR SHREDDED BARK OFF VALVE BOXES FOR EASY LOCATION.

CALL 2 DAYS
 BEFORE YOU DIG
 1-800-424-5555

PROJECT ENGR./ARCH:
DESIGNER:
DRAWN BY:
SCALE:
DATE:
CHECKED BY:
CHECKED/APPROVED BY:

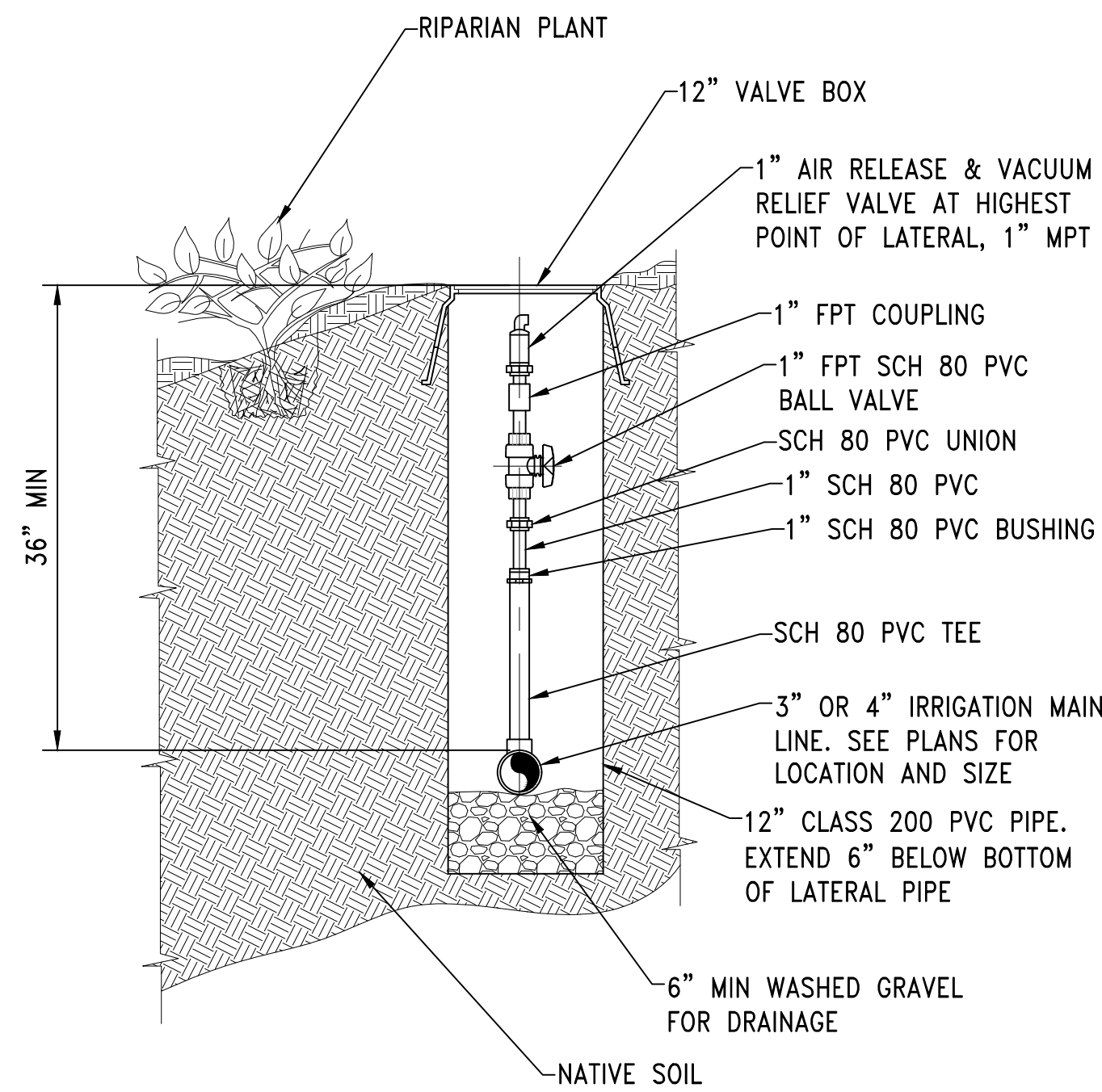
REVISIONS						
NO.	DATE	BY	DESCRIPTION	APP'D	NO.	DATE
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PROJECT MANAGER:
 TICSÓN MACH
 PROJECT ENGINEER:
 JOANNA HINGLE
 DESIGN ENGINEER:
 JAY BABB
 DRAFTER:
 JAY BABB
 SCALE:
 AS NOTED
 DATE:

Port of Seattle MARITIME DIVISION
 PROJECT: SITE 23 & 25 RESTORATION PLANTING
 SHEET TITLE: LANDSCAPE IRRIGATION DETAILS - SHEET 3

WORK PROJECT NO.
 103944 (PIER - 104872)
 CONSULTANT'S NO.
 PORT OF SEATTLE NO.
 117-1201 **M3.2**

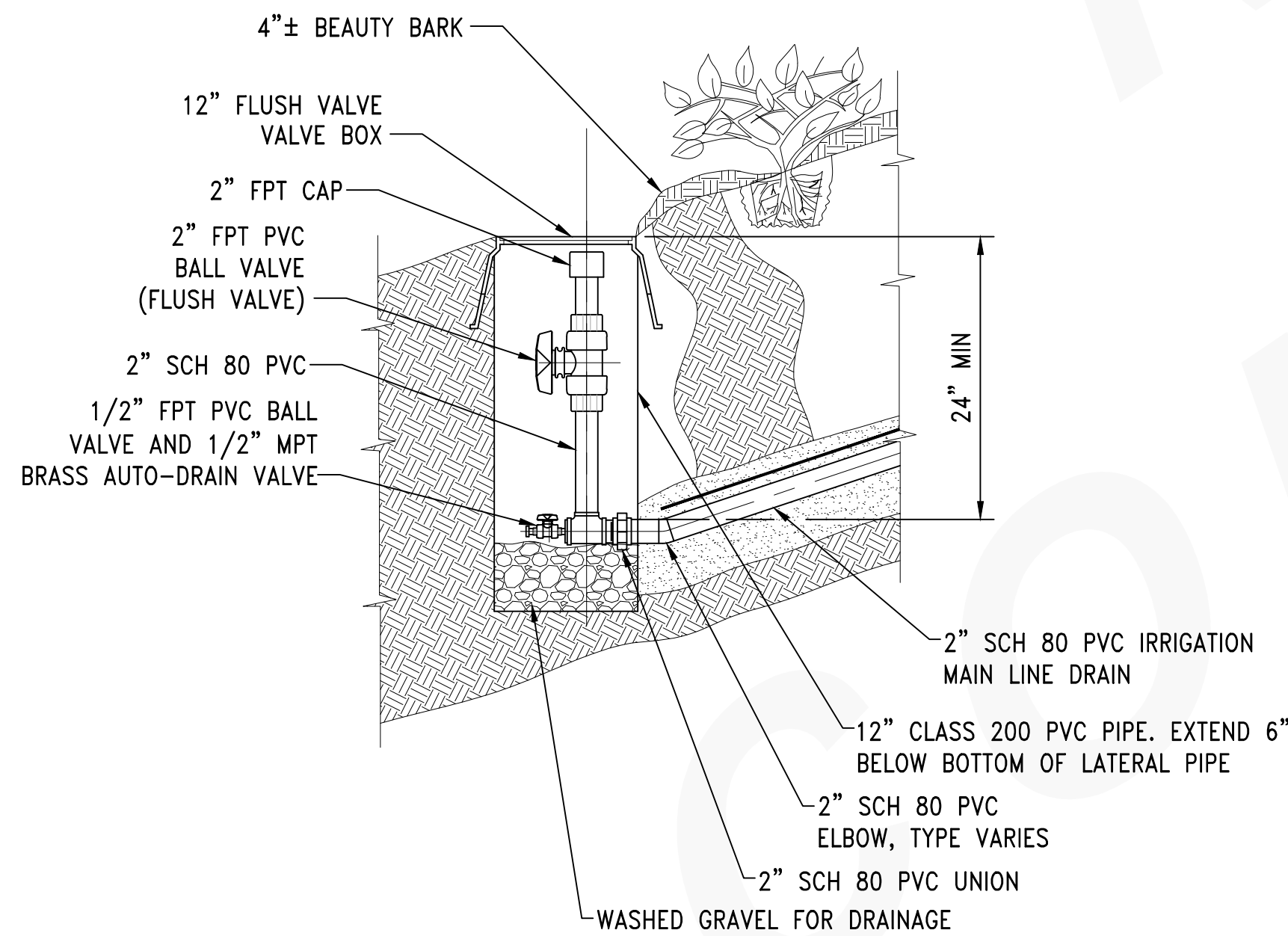
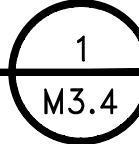


NOTES:

1. AUTOMATIC AIR RELEASE AND VACUUM RELIEF VALVES SHALL BE LOCATED ON IRRIGATION MAIN LINES AT THE LOCATIONS SHOWN ON THE PLAN DRAWINGS AND AT ALL HIGH POINTS.
2. DO NOT ALLOW VALVE BOXES TO REST ON PIPE.
3. VALVE BOXES SHALL BE FLUSH WITH FINISH GRADE AND BEAUTY BARK AND CLEARED OFF FOR EASY LOCATION.

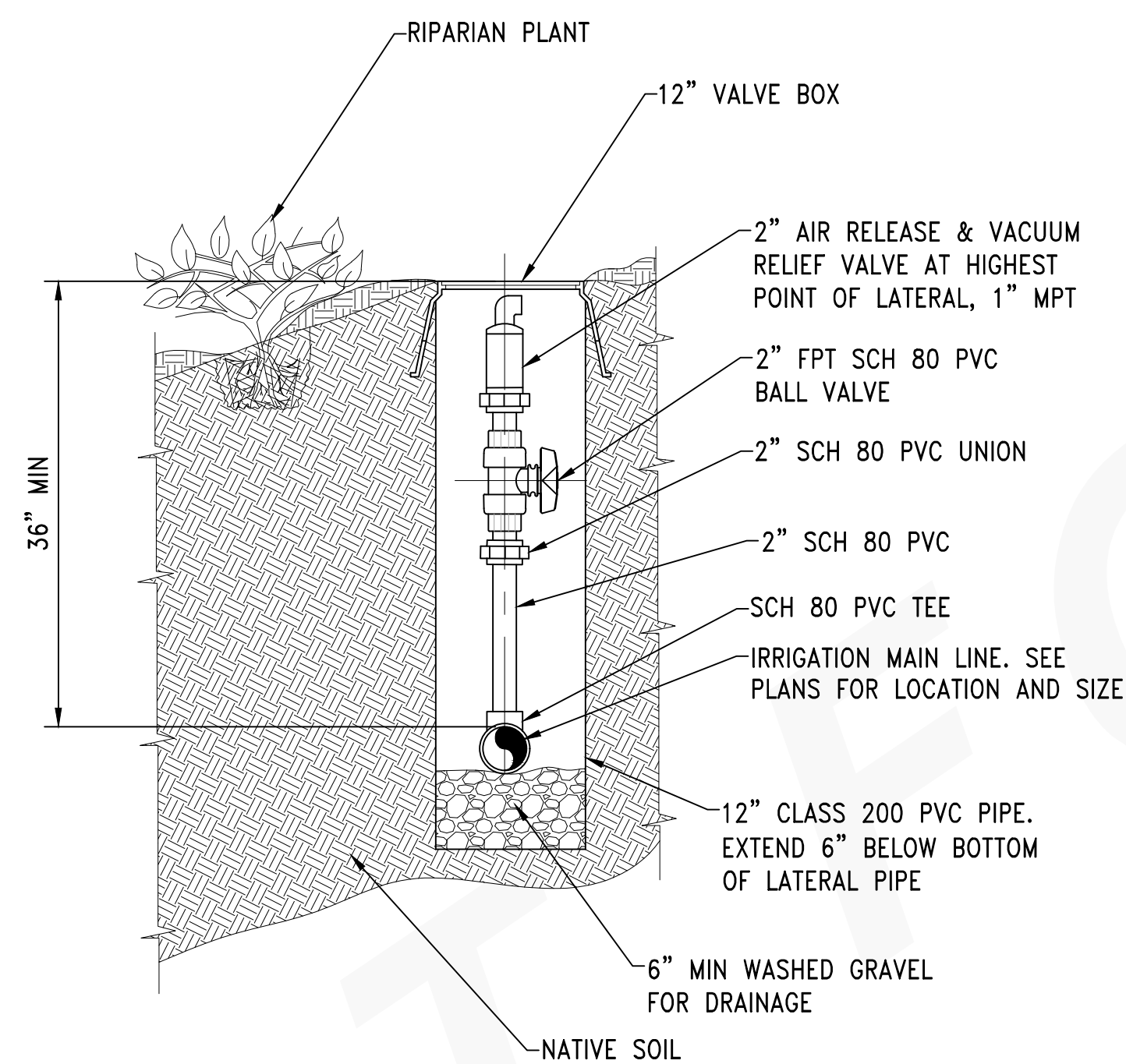
DETAIL

1" IRRIGATION MAIN LINE AUTOMATIC AIR RELEASE & VACUUM RELIEF VALVES, AND VALVE BOX
SCALE: NONE



DETAIL

IRRIGATION MAIN DRAIN, DRAIN/FLUSH VALVE, AUTO-DRAIN VALVE, & VALVE BOX
SCALE: NONE

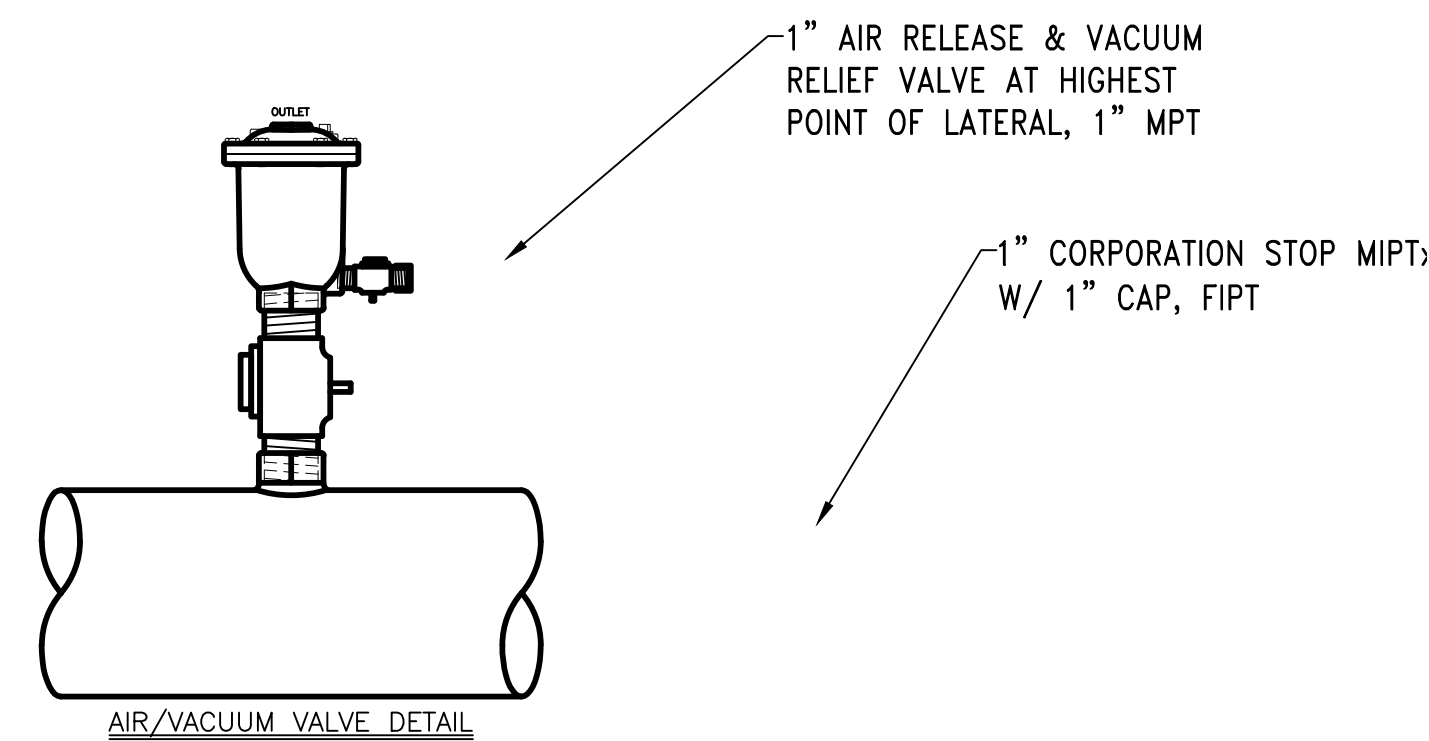
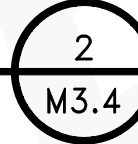


NOTES:

1. AUTOMATIC AIR RELEASE AND VACUUM RELIEF VALVES SHALL BE LOCATED ON IRRIGATION MAIN LINES AT THE LOCATIONS SHOWN ON THE PLAN DRAWINGS AND AT ALL HIGH POINTS.
2. DO NOT ALLOW VALVE BOXES TO REST ON PIPE.
3. VALVE BOXES SHALL BE FLUSH WITH FINISH GRADE AND BEAUTY BARK AND CLEARED OFF FOR EASY LOCATION.

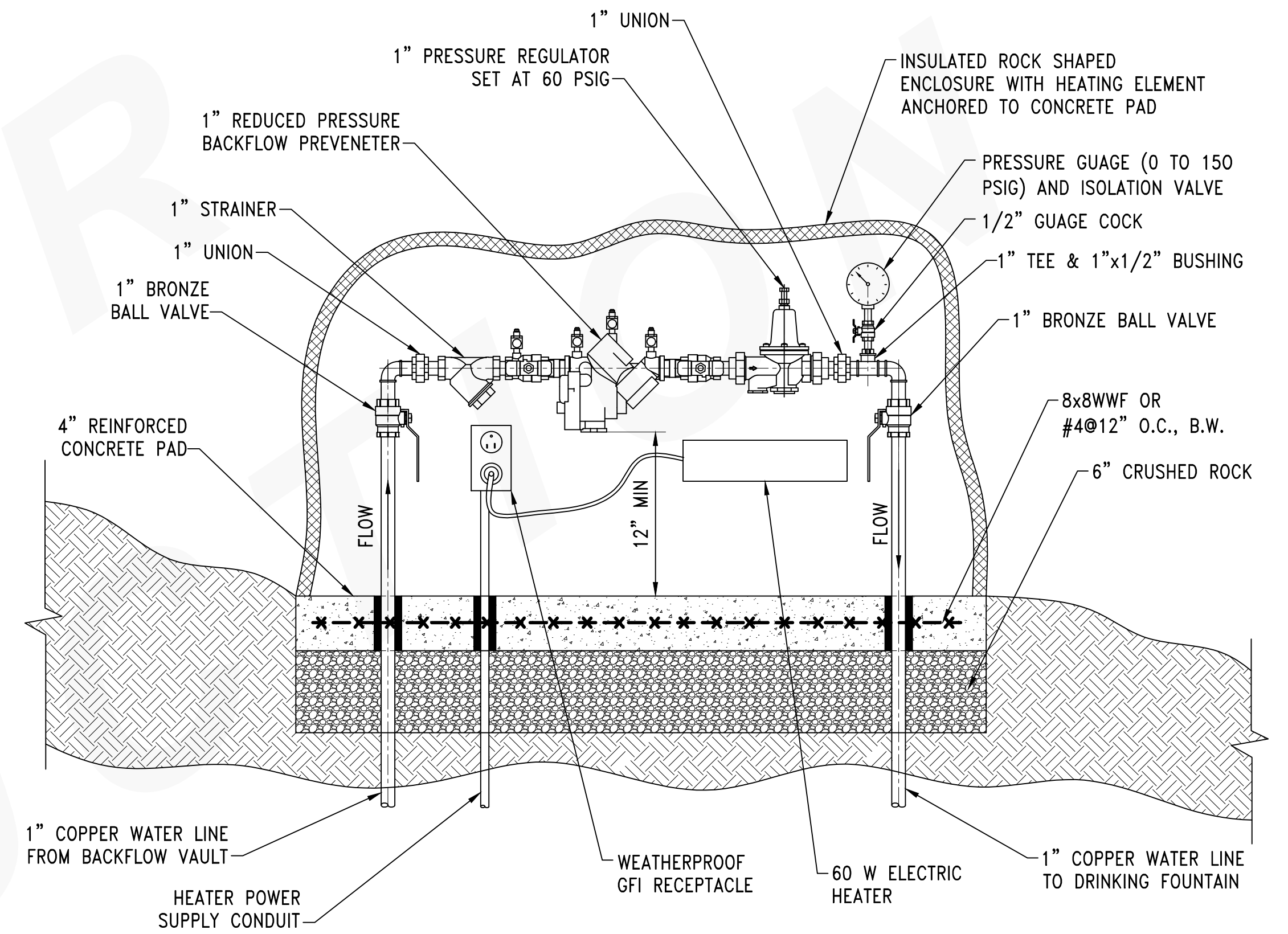
DETAIL

2" IRRIGATION MAIN LINE AUTOMATIC AIR RELEASE & VACUUM RELIEF VALVES, AND VALVE BOX
SCALE: NONE



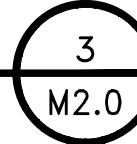
DETAIL

AUTOMATIC AIR RELEASE/VACUUM RELIF VALVE ON IRRIGATION MAIN
SCALE: 1 1/2"=1'-0"



DETAIL

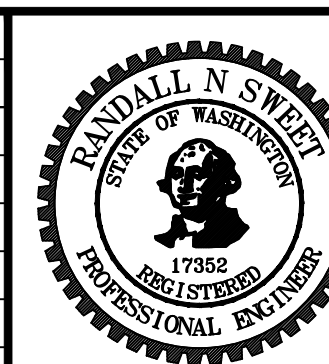
1" REDUCED PRESSURE BACKFLOW PREVENTER AND INSULATED AND HEATED ENCLOSURE
SCALE: 1 1/2"=1'-0"



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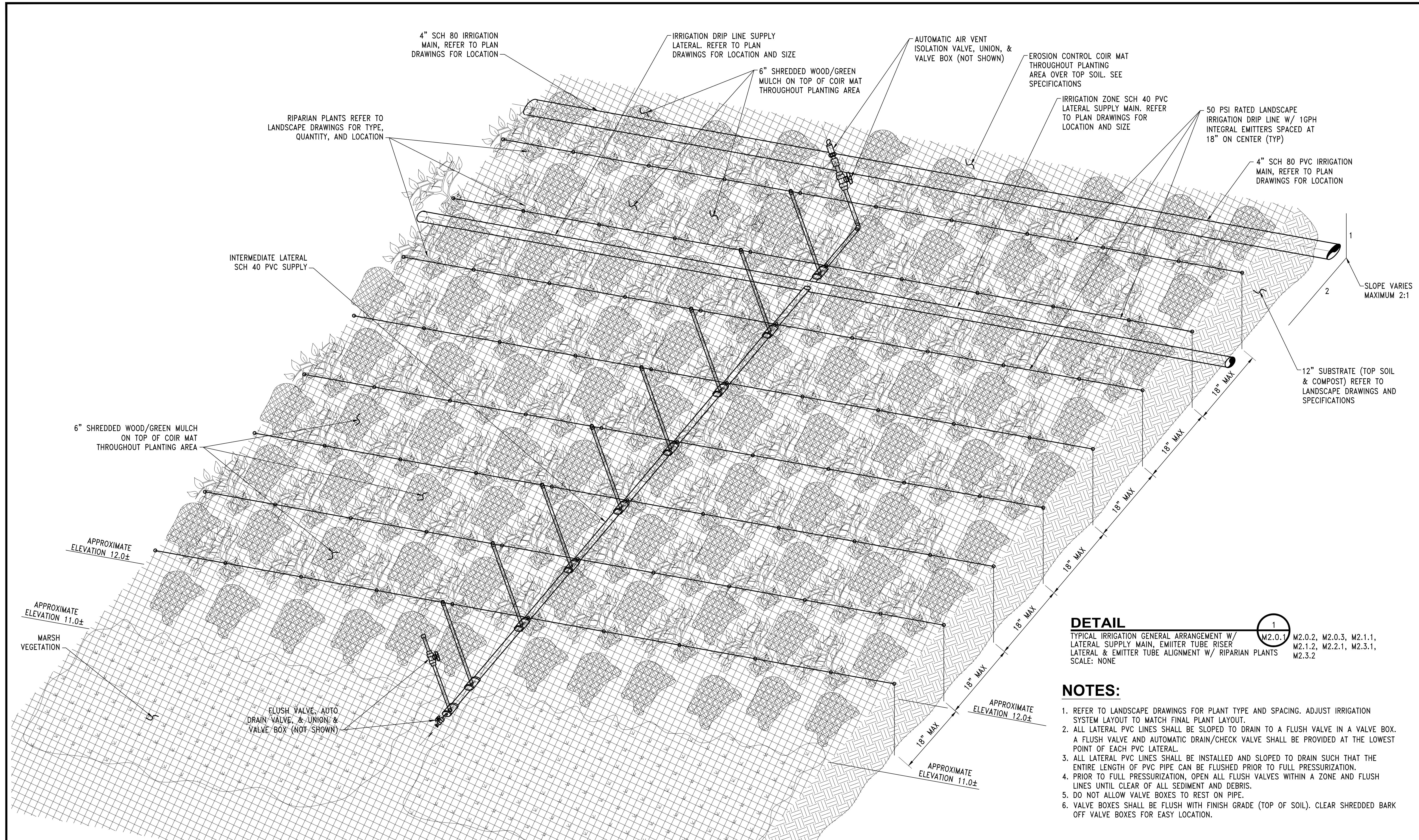
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PROJECT MANAGER:
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PROJECT ENGINEER:
JOANNA HINGLE
DESIGN ENGINEER:
JAY BABB
DRAWER:
JAY BABB
SCALE:
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DATE:
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RANDALL SWEET

Port of Seattle MARITIME DIVISION
PROJECT: SITE 23 & 25 RESTORATION PLANTING
SHEET TITLE: LANDSCAPE IRRIGATION SECTIONS & DETAILS - SHEET 5

WORK PROJECT NO.
103944 (PIER - 104872)
CONSULTANT'S NO.
PORT OF SEATTLE NO.
117-1201 **M3.4**



DETAIL

1
M2.0.1 M2.0.2, M2.0.3, M2.1.1, M2.1.2, M2.2.1, M2.3.1, M2.3.2

TYPICAL IRRIGATION GENERAL ARRANGEMENT W/ LATERAL SUPPLY MAIN, EMITTER TUBE RISER LATERAL & EMITTER TUBE ALIGNMENT W/ RIPARIAN PLANTS

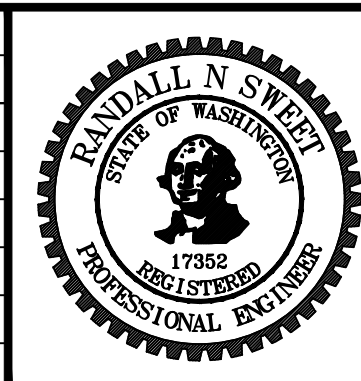
SCALE: NONE

- NOTES:**
- REFER TO LANDSCAPE DRAWINGS FOR PLANT TYPE AND SPACING. ADJUST IRRIGATION SYSTEM LAYOUT TO MATCH FINAL PLANT LAYOUT.
 - ALL LATERAL PVC LINES SHALL BE SLOPED TO DRAIN TO A FLUSH VALVE IN A VALVE BOX. A FLUSH VALVE AND AUTOMATIC DRAIN/CHECK VALVE SHALL BE PROVIDED AT THE LOWEST POINT OF EACH PVC LATERAL.
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 - PRIOR TO FULL PRESSURIZATION, OPEN ALL FLUSH VALVES WITHIN A ZONE AND FLUSH LINES UNTIL CLEAR OF ALL SEDIMENT AND DEBRIS.
 - DO NOT ALLOW VALVE BOXES TO REST ON PIPE.
 - VALVE BOXES SHALL BE FLUSH WITH FINISH GRADE (TOP OF SOIL). CLEAR SHREDDED BARK OFF VALVE BOXES FOR EASY LOCATION.

CALL 2 DAYS BEFORE YOU DIG
1-800-424-5555

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.	1/27/17		100% REVIEW SUBMITTAL				
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PROJECT ENGINEER:
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DESIGN ENGINEER:
JAY BABB
DRAWER:
JAY BABB
SCALE:
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DATE:

Port of Seattle MARITIME DIVISION

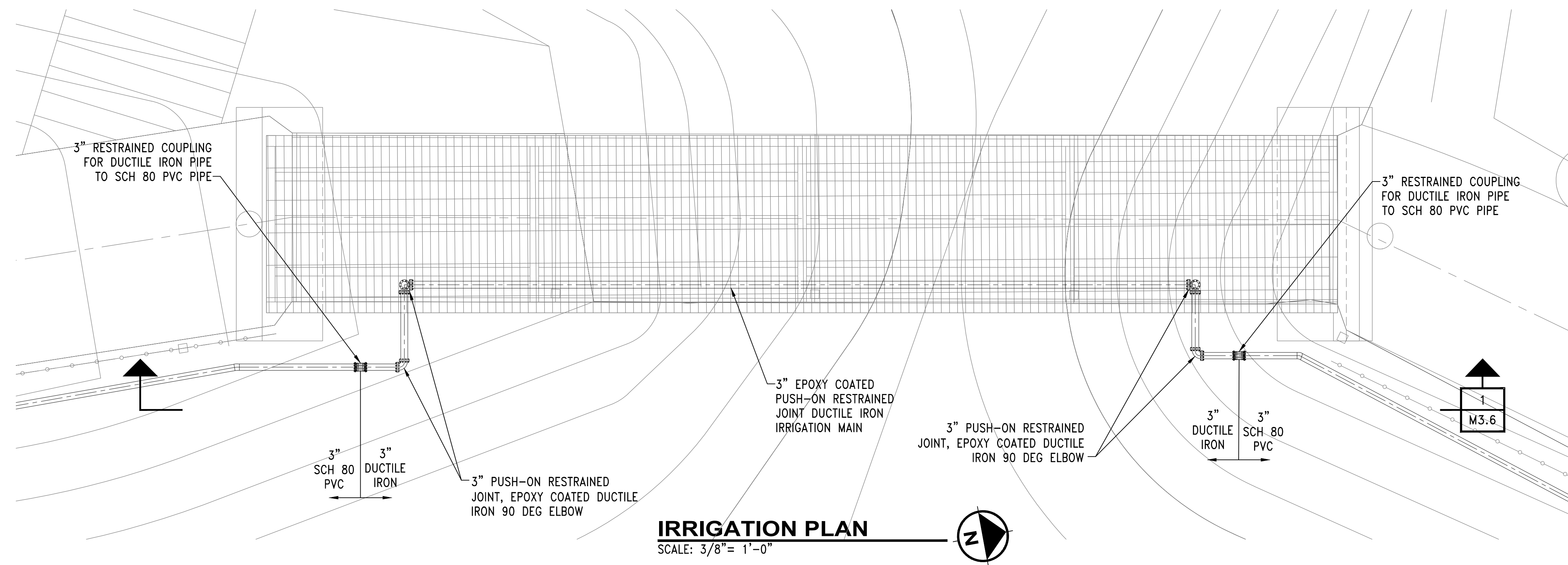
PROJECT: SITE 23 & 25 RESTORATION PLANTING

SHEET TITLE: LANDSCAPE IRRIGATION DETAILS - SHEET 6

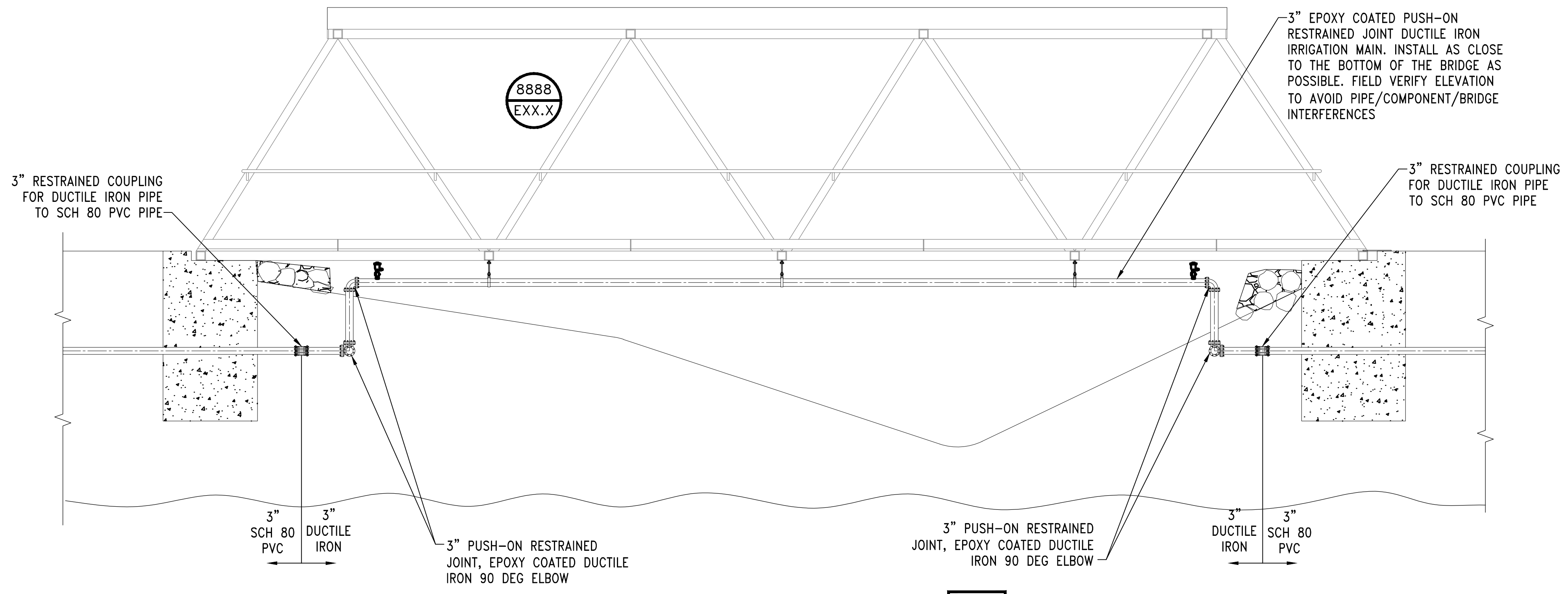
WORK PROJECT NO.
103944 (PIER - 104872)

CONSULTANT'S NO.

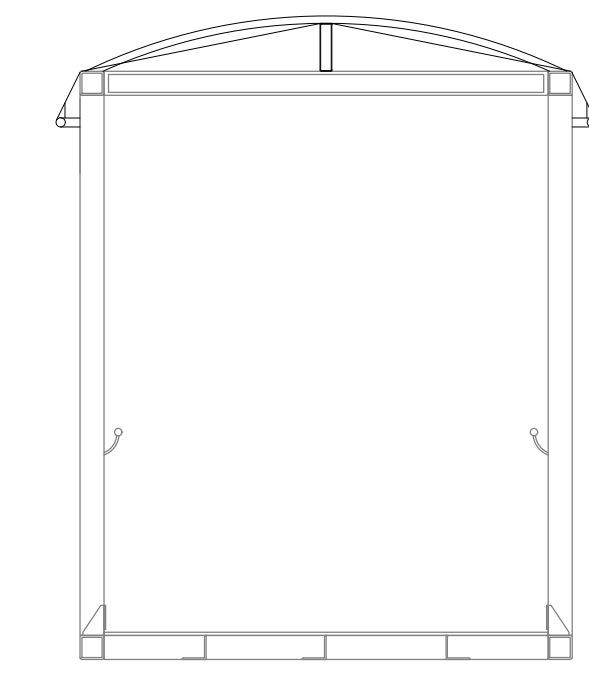
PORT OF SEATTLE NO.
117-1201 **M3.5**



IRRIGATION PLAN
SCALE: 3/8" = 1'-0"



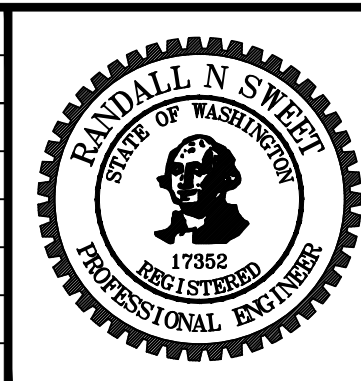
SECTION
DUCTILE IRON IRRIGATION MAIN UNDER BRIDGE
SCALE: 3/8" = 1'-0"



CALL 2 DAYS
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PROJECT ENGR./ARCH:
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SCALE:
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REVISIONS							
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.	1/27/17		100% REVIEW SUBMITTAL				
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PROJECT MANAGER:
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PROJECT ENGINEER:
JOANNA HINGLE
DESIGN ENGINEER:
JAY BABB
DRAWER:
JAY BABB
SCALE:
AS NOTED
DATE:
CHECKED/APPROVED BY:
RANDALL SWEET

Port of Seattle MARITIME DIVISION
PROJECT: SITE 23 & 25 RESTORATION PLANTING
SHEET TITLE: LANDSCAPE IRRIGATION SECTIONS & DETAILS - SHEET 7

WORK PROJECT NO.
103944 (PIER - 104872)
CONSULTANT'S NO.
PORT OF SEATTLE NO.
117-1201 M3.6