



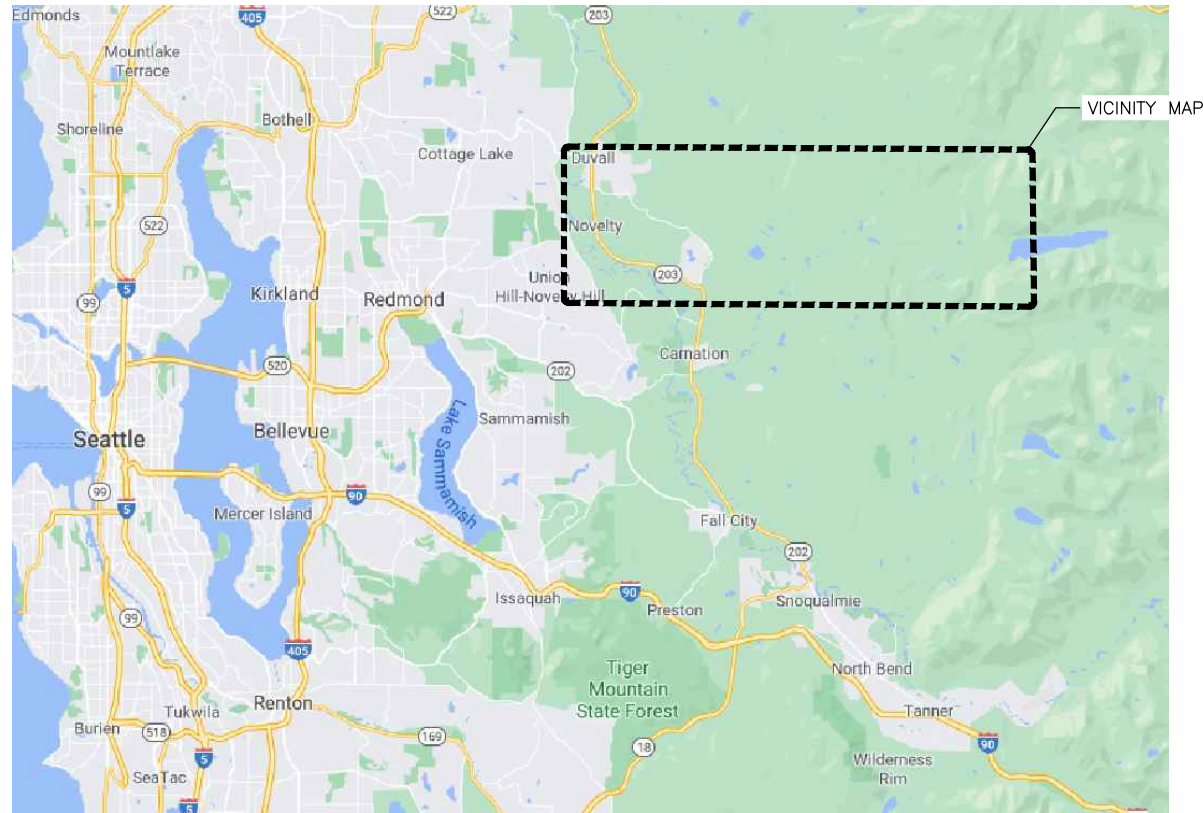
SEATTLE PUBLIC UTILITIES  
SOUTH FORK TOLT RESERVOIR  
DEBRIS BOOM REPLACEMENT

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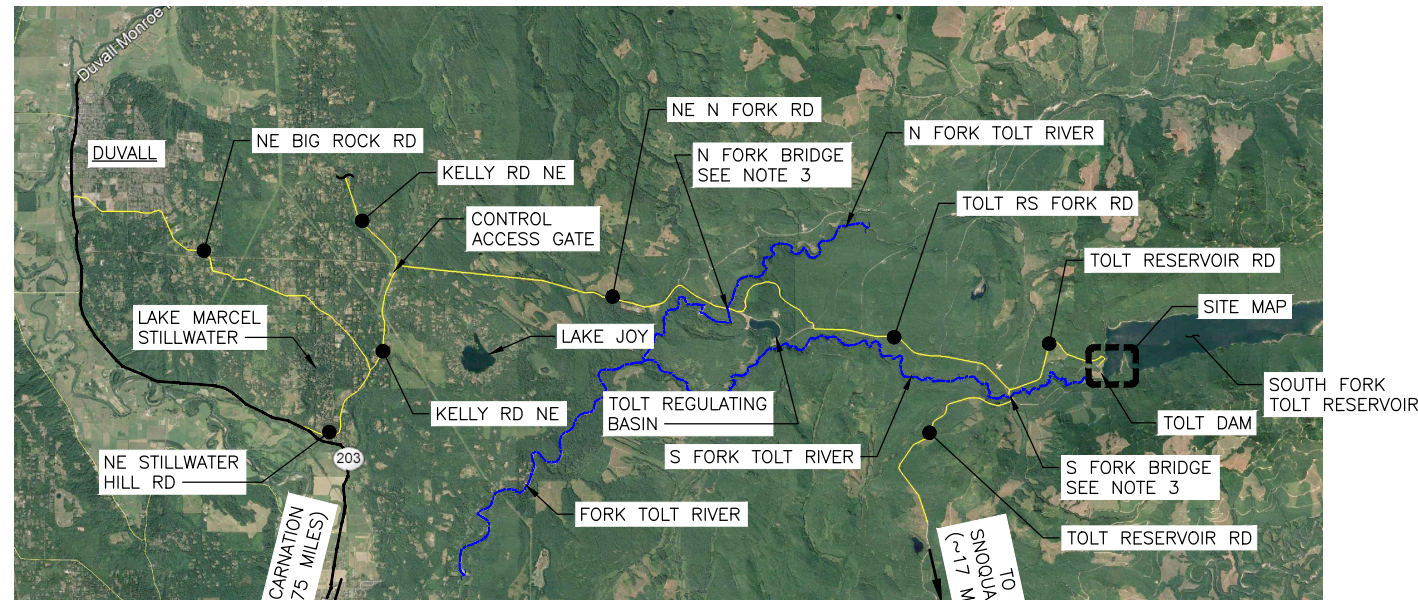
VOLUME 2 – CONSTRUCTION DRAWINGS  
MAY 2022

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90% DESIGN REVIEW



LOCATION MAP  
SCALE: NTS

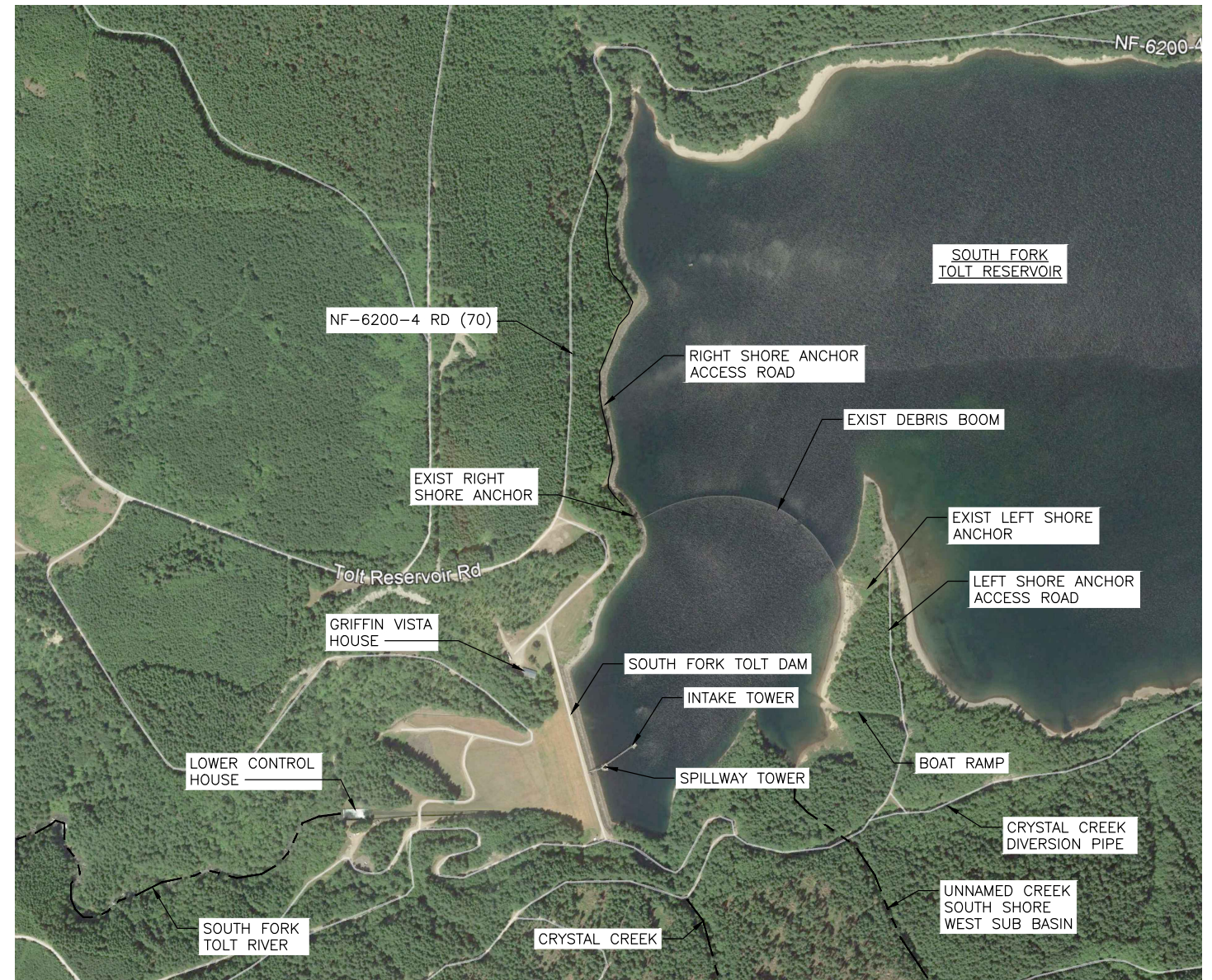


VICINITY MAP  
SCALE: NTS



**SITE ACCESS NOTES:**

1. THE CONTRACTOR SHALL COORDINATE SITE ACCESS FOR THE DURATION OF THE PROJECT WITH SEATTLE PUBLIC UTILITIES. TOLT RESERVOIR ROAD PROVIDES SITE ACCESS FROM SNOQUALMIE. ACCESS FROM CARNATION AND DUVALL IS FROM THE CONTROLLED ACCESS GATE LOCATED AT 12900 KELLY ROAD NE, DUVALL, WA. OBEY ALL POSTED SPEED LIMITS, VEHICLE WEIGHT RESTRICTIONS, AND OTHER RESTRICTIONS AS DESCRIBED IN WATERSHED REGULATIONS AND IN THE SPU SITE SECURITY PLAN.
2. DAMAGE TO ACCESS ROADS OR GATES BY CONTRACTOR SHALL BE IMMEDIATELY REPAIRED BY CONTRACTOR AT NO EXPENSE TO OWNER.
3. N.F. TOLT BRIDGE: WIDTH = 14'-0", LOAD RATING = HS-20.  
S.F. TOLT BRIDGE: WIDTH = 13'-11", LOAD RATING = HS-25 AND U-80.
4. SPU ACCESS AND SECURITY GATES SHALL REMAIN LOCKED DURING CONSTRUCTION.
5. WORK ON SURFACE WATERS WITHIN THE SOUTH FORK TOLT RESERVOIR WATERSHED SHALL COMPLY WITH THE REQUIREMENTS OF THE "PREVENTION OF AQUATIC INVASIVE SPECIES IN SEATTLE WATER SUPPLY WATERSHEDS" DOCUMENT PREPARED BY SEATTLE PUBLIC UTILITIES WATER QUALITY LABORATORY, DATED AUGUST 2014. FOR EQUIPMENT AND SUPPLIES THESE REQUIREMENTS INCLUDE, BUT ARE NOT LIMITED TO, DECONTAMINATION, SPU INSPECTION, AND MAINTENANCE OF A DECONTAMINATION AND HISTORY LOG BY THE CONTRACTOR.



SITE MAP  
SCALE: NTS



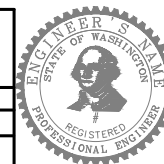
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LOCATION MAP, VICINITY MAP



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BY: . . . . .  
CITY PURCHASING & CONTRACTING SERVICES DIRECTOR

INITIALS AND DATE		INITIALS AND DATE	
DESIGNED TB	CHECKED RS	REVIEWED: DES. SDOT	CONST. PROJ. MGR.
DRAWN RW	CHECKED TB	RECEIVED	REVISED AS BUILT
ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE CITY OF SEATTLE STANDARD PLANS AND SPECIFICATIONS AND OTHER DOCUMENTS CALLED FOR IN SECTION 0-02.3 OF THE PROJECT MANUAL.			



**Seattle Public Utilities**  
ORDINANCE NO. . . . . PW NO. . . . .  
SCALE: AS NOTED

**SOUTH FORK TOLT RESERVOIR DEBRIS BOOM REPLACEMENT**

JOB #	PC C117069
CO	912-32
VPI #	G-001
SHEET	1 OF XX

VAULT SERIAL #	DATE	MARK	NATURE	MADE CHKD REVD
38810			REVISIONS	

SDCI #####

SHEET INDEX			
90% SUBMITTAL	SHT NO.	DWG NO.	DESCRIPTION
X			COVER SHEET
X	1	G-001	LOCATION MAP, VICINITY MAP
X	2	G-002	SHEET INDEX
X	3	G-003	STANDARD ABBREVIATIONS
X	4	G-004	STANDARD SYMBOLS
X	5	G-005	GENERAL SITE PLAN AND CONTRACTOR STAGING
X	6	G-006	PROJECT CONTROL PLAN
X	7	C-001	GENERAL CIVIL AND EROSION AND SEDIMENT CONTROL NOTES
X	8	C-101	EROSION AND SEDIMENT CONTROL KEY PLAN
X	9	C-102	EROSION AND SEDIMENT CONTROL ENLARGED PLAN 1
X	10	C-103	EROSION AND SEDIMENT CONTROL ENLARGED PLAN 2
X	11	C-201	EROSION AND SEDIMENT CONTROL DETAILS
X	12	CD100	DEBRIS BOOM DEMOLITION PLAN
X	13	CD301	DEBRIS BOOM DEMOLITION PHOTOS 1
X	14	CD302	DEBRIS BOOM DEMOLITION PHOTOS 2
X	15	CS101	OVERALL SITE PLAN
X	16	CS102	LEFT ANCHOR CLEARING AND EXCAVATION PLAN
X	17	CS103	LEFT ANCHOR GRADING PLAN AND PROFILE
X	18	CS104	RIGHT ANCHOR CLEARING AND EXCAVATION PLAN
X	19	CS105	RIGHT ANCHOR GRADING PLAN AND PROFILE
X	20	CS201	LEFT ANCHOR EXCAVATION SECTIONS
X	21	CS202	LEFT ANCHOR GRADING SECTIONS AND DETAILS 1
X	22	CS203	LEFT ANCHOR GRADING SECTIONS AND DETAILS 2
X	23	CS204	RIGHT ANCHOR EXCAVATION SECTIONS
X	24	CS205	RIGHT ANCHOR GRADING SECTIONS AND DETAILS 1
X	25	CS206	RIGHT ANCHOR GRADING SECTIONS AND DETAILS 2
X	26	CS207	STORMWATER MANAGEMENT SECTIONS AND DETAILS 1
X	27	CS208	STORMWATER MANAGEMENT SECTIONS AND DETAILS 2
X	28	S-001	GENERAL STRUCTURAL NOTES

SHEET INDEX			
90% SUBMITTAL	SHT NO.	DWG NO.	DESCRIPTION
X	29	S-002	STANDARD STRUCTURAL DETAILS 1
X	30	S-201	SHORE ANCHOR SECTIONS AND DETAILS 1
X	31	S-202	SHORE ANCHOR SECTIONS AND DETAILS 2
X	32	S-203	MICROPILE SECTIONS AND DETAILS
X	33	S-210	DEBRIS BOOM SYSTEM
X	34	S-211	DEBRIS BOOM SYSTEM - SECTIONS AND DETAILS
X	35	S-212	DEBRIS BOOM TYPE 1 PONTOON ASSEMBLY
X	36	S-213	DEBRIS BOOM TYPE 2 PONTOON ASSEMBLY
X	37	S-214	DEBRIS BOOM TYPICAL PONTOON SECTIONS AND DETAILS
X	38	S-215	DEBRIS BOOM TYPICAL PONTOON COMPONENTS 1
X	39	S-216	DEBRIS BOOM TYPICAL PONTOON COMPONENTS 2
X	40	S-217	DEBRIS BOOM BOAT GATE ASSEMBLY
X	41	S-218	DEBRIS BOOM BOAT GATE WELDMENT 1
X	42	S-219	DEBRIS BOOM BOAT GATE WELDMENT 2
X	43	S-220	DEBRIS BOOM BOAT GATE COMPONENTS 1
X	44	S-221	DEBRIS BOOM BOAT GATE COMPONENTS 2
X	45	S-222	DEBRIS BOOM BOAT GATE COMPONENTS 3
X	46	L-001	RIGHT SHORE PLANTING PLAN
X	47	L-002	RIGHT SHORE PLANTING TYPES
X	48	L-003	RIGHT SHORE PLAN SCHEDULE
X	49	L-004	LEFT SHORE PLANTING PLAN
X	50	L-005	LEFT SHORE PLANTING TYPES
X	51	L-006	LEFT SHORE PLAN SCHEDULE
X	52	L-007	RESTORATION SECTIONS
X	53	L-008	LANDSCAPE DETAILS 1
X	54	L-009	LANDSCAPE DETAILS 2
X	55	L-010	RIGHT SHORE TREE PROTECTION PLAN
X	56	L-011	LEFT SHORE TREE PROTECTION PLAN

MADE CHKD REVD
NATURE REVISIONS
DATE MARK
VAULT SERIAL # 38810

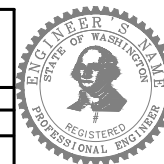
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INITIALS AND DATE DESIGNED TB CHECKED RS	INITIALS AND DATE REVIEWED: DES. CONST. SDOT PROJ. MGR.
DRAWN RW CHECKED TB	RECEIVED REVISED AS BUILT

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**Seattle Public Utilities**  
ORDINANCE NO. PW NO.  
SCALE: AS NOTED

**SOUTH FORK TOLT  
RESERVOIR DEBRIS BOOM  
REPLACEMENT**

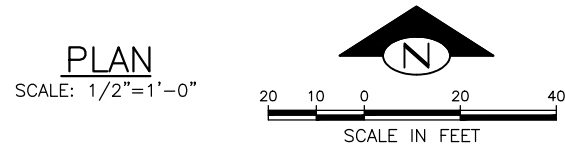
JOB	PC C117069
CO	
VPI #	912-32
<b>G-002</b>	
SHEET	2 OF XX

SHEET INDEX

SDCI ##### SDOT #####

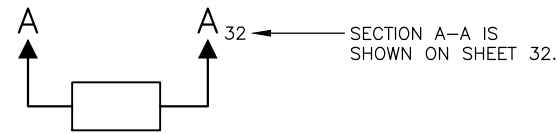


SHEET SYMBOLS

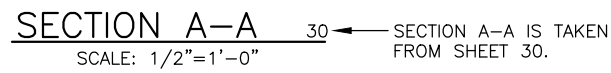


DETAIL AND SECTION REFERENCING

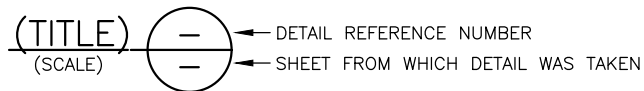
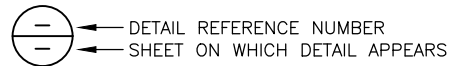
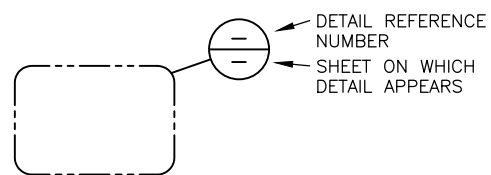
(1) SECTION CUT ON DRAWING 30:



(2) ON DRAWING 32 THIS SECTION IS IDENTIFIED AS:

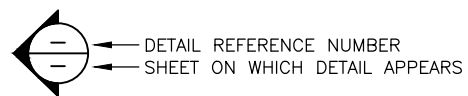


DETAIL IDENTIFICATION



("TYP" SPECIFIES THAT DETAIL IS UNIFORMLY TYPICAL THROUGHOUT PROJECT EXCEPT WHERE OTHERWISE NOTED.) ("VAR" SPECIFIES THAT DETAIL WAS TAKEN FROM SEVERAL SHEETS.)

ELEVATION/IMAGE IDENTIFICATION



SITE PLAN LINE TYPES

— X — X —	FENCE LINE
— P — P —	OVERHEAD POWER
— 455 —	MAJOR CONTOUR
— 456 —	MINOR CONTOUR
← ← ← ← ←	EDGE OF WATERLINE
— TOE —	TOE OF SLOPE
— TOB —	TOP OF BANK
— SS — SS —	SANITARY SEWER
— SD — SD —	STORM DRAIN
— EP — EP —	EDGE OF PAVEMENT
— EG — EG —	EDGE OF GRAVEL
— W —	WATTLE
— SF — SF —	SILT FENCE
— CF — CF —	CONSTRUCTION FENCE
— GAS —	GAS LINE
— IRR — IRR —	IRRIGATION LINE
— WTR —	WATER LINE
— TEL —	TELEPHONE LINE
— COM —	COMMUNICATION LINE
— OHP —	OVERHEAD ELECTRICAL/POWER
— EUG —	UNDERGROUND ELECTRICAL
— P/L —	PROPERTY LINE
— OHP —	EXISTING OVERHEAD POWER LINE
— OHP&T —	EXISTING OVERHEAD POWER & TELEPHONE LINE
— T —	EXISTING OVERHEAD TELEPHONE LINE
— BT —	EXISTING BURIED TELEPHONE LINE EVIDENCED BY PEDESTALS & WARNING PADDLES
— X — X — X — X —	EXISTING FENCE LINE
— - - - -	PROJECT BOUNDARY
— O — O — O — O —	TREE PROTECTION FENCE
— TC —	TURBIDITY CURTAIN
— SF — SF —	SILT FENCING
— - - - -	CENTER LINE, CL
— OHWM —	ORDINARY HIGH WATER MARK
— - - - -	GRIDLINE

SITE PLAN SYMBOLS

	ARROW INDICATES DIRECTION OF PLAN NORTH
	CONIFER TREE: FIR, SPRUCE, LARCH OR PINE, 8" DIAMETER OR LARGER.
	DECIDUOUS TREE: COTTONWOOD, HAWTHORN, ASPEN, 8" DIAMETER OR LARGER.
	MANHOLE
	ELECTRIC BOX
	STORM DRAIN MANHOLE
	FIRE HYDRANT
	YARD HYDRANT
	SURVEY CONTROL POINT, AS NOTED.
	POLE ANCHOR
	POWER POLE
	LIGHT POLE
	SIGN
	SURVEY HUB
	SECTION CORNER
	BENCH MARK
	EXISTING HEADWALL
	EXISTING MONITORING STATION
	EXISTING FENCE
	STATE PLANE COORDINATE MARKER
	EXISTING TREE LINE
	EXISTING BUILDING, STRUCTURES
	EXISTING SECTION CORNER MONUMENT FOUND AS DESCRIBED
	EXISTING 5/8" REBAR CONTROL POINT MONUMENT, BORING LOCATION
	EXISTING HOSE BIB
	EXISTING PORTABLE IRRIGATION WATER PUMP
	EXISTING 6" WATER WELL
	EXISTING ELECTRICAL OUTLET
	EXISTING POWER POLE
	EXISTING TELEPHONE PEDESTAL
	CONTROL POINT
	PUMP
	PUMP
	TEST PIT LOCATION

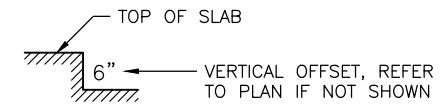
MISCELLANEOUS SYMBOLS

	CHANGE OF PIPE MTL
	END OF PIPE
	CENTERLINE
	DIAMETER
	ANGLE
	PLATE
	PLUS/MINUS

ARCHITECTURAL SYMBOLS

	ELEVATIONS
	KEYNOTE
	DATUM POINT

STRUCTURAL SYMBOLS



NOTE: SYMBOL IS GENERIC AND WILL VARY BASED ON SLAB CONFIGURATION.

HATCH SYMBOLS

	ROCK, TYPE AS NOTED (PLAN/SECTION)
	BED ROCK
	EXISTING GRADE (SECTION)
	NEW SOIL (SECTION)
	CONCRETE (SECTION)
	SAND, GROUT (PLAN/SECTION)
	STEEL (SECTION)
	GRATING (PLAN)
	MASONRY (PLAN)
	WOOD, SIZE/TYPE AS NOTED (PLAN)
	WOOD, SIZE/TYPE AS NOTED (SECTION)
	RIP RAP (PLAN/SECTION)
	GRASSCRETE PAVERS (PLAN AND SECTION)
	ASPHALT/CONCRETE PAVEMENT SURFACE (PLAN/SECTION)
	GRASS/VEGETATION (PLAN)
	BATT INSULATION (SECTION)
	NEW CONSTRUCTION
	EXISTING
	EXISTING TO BE REMOVED OR DEMOLISHED
	CLEARING AND GRUBBING
	GRASSCRETE PAVERS
	GRASS/VEGETATION
	GRAVEL

GENERAL NOTES:

UNLESS OTHERWISE NOTED:

- ALL SYMBOLS ARE NOT NECESSARILY USED. THIS IS A STANDARD DRAWING SHOWING COMMON SYMBOLS ON THIS PROJECT.
- SCREENING OR SHADING OF WORK IS USED TO INDICATE EXISTING COMPONENTS OR TO DE-EMPHASIZE PROPOSED IMPROVEMENTS TO HIGHLIGHT SELECTED TRADE WORK. REFER TO CONTEXT OF EACH DRAWING FOR USAGE.

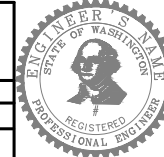
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STANDARD SYMBOLS



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CHECKED RS	SDOT PROJ. MGR.
DRAWN RW	RECEIVED
CHECKED TB	REVISED AS BUILT



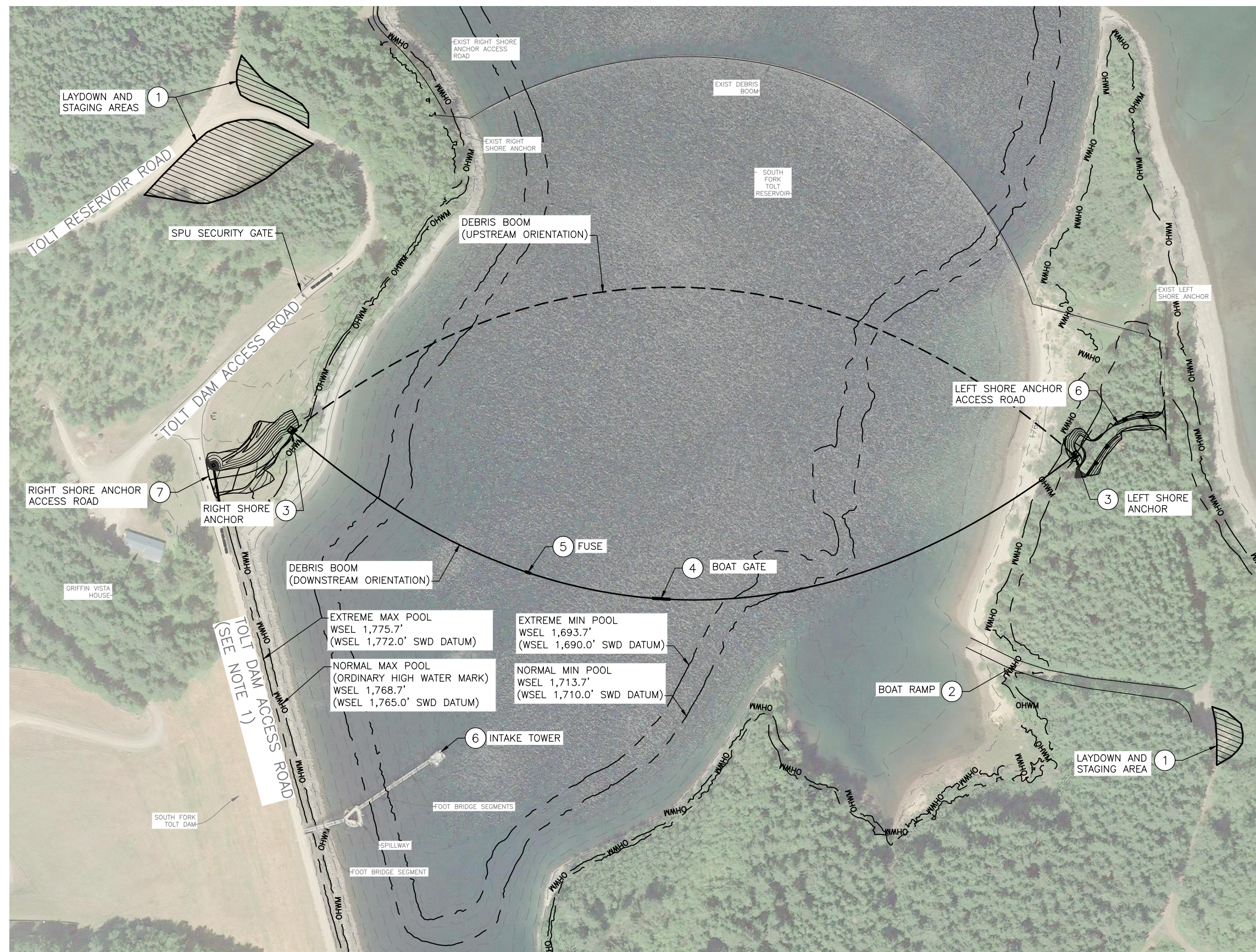
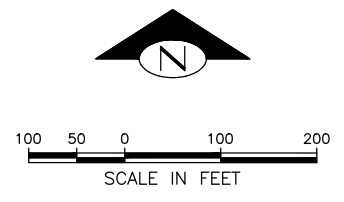
Seattle Public Utilities  
ORDINANCE NO. PW NO.  
SCALE: AS NOTED

SOUTH FORK TOLT  
RESERVOIR DEBRIS BOOM  
REPLACEMENT

PC	C117069
CO	
VPI #	912-32
G-004	
SHEET	4 OF XX

MADE CHG'D	REV'D
NATURE	REVISIONS
DATE	MARK
Vault Serial #	38810

SDCI ##### SDOT #####



**SHEET NOTES:**

1. PARKING ON THE DAM IS NOT PERMITTED. VEHICLE ACCESS ACROSS DAM MUST BE MAINTAINED AT ALL TIMES. COORDINATE WITH AND OBTAIN SPU APPROVAL FOR ALL ACTIVITIES THAT MAY TEMPORARILY BLOCK ACCESS, SUCH AS USE OF A CRANE.
2. THE WATER SURFACE ELEVATION IN THE RESERVOIR WILL VARY THROUGHOUT THE CONSTRUCTION PERIOD. WATER SURFACE ELEVATIONS CAN INCREASE RAPIDLY DURING STORM EVENTS. THE CONTRACTOR'S MEANS AND METHODS OF CONSTRUCTION SHALL ACCOUNT FOR AND ACCOMMODATE WATER SURFACE ELEVATION FLUCTUATIONS.

**SHEET KEY NOTES:**

- ① STAGING AREAS FOR CONSTRUCTION SHALL BE LOCATED IN THE GENERAL AREA DEPICTED AS REQUIRED FOR PROJECT COMPLETION. FINAL LOCATIONS AND EXTENTS FOR STAGING AREAS SHALL BE FIELD VERIFIED AND COORDINATED WITH SPU PRIOR TO MOBILIZATION. BRUSH CLEARING AND SOME SURFACE LEVELING MAY BE REQUIRED. TREE CLEARING IS NOT PERMITTED. PRESERVE AND PROTECT ALL EXISTING UTILITIES, STRUCTURES, AND MONUMENTS (IF ANY) WITHIN THE APPROVED STAGING AREA BOUNDARIES. IN THE AREA OF THE RIGHT SHORE LAYDOWN AND STAGING AREA THERE EXISTS NOXIOUS HAWKWEED. ALL SITE PREPARATION SHALL BE PERFORMED IN ACCORDANCE WITH SPECIFICATION 31 11 00.
- ② RESERVOIR ACCESS SHALL OCCUR AT THE EXISTING BOAT RAMP. AREAS OF THE BOAT RAMP AND BOAT RAMP ACCESS ROAD ABOVE THE MAXIMUM RESERVOIR WATER SURFACE ELEVATION MAY BE UTILIZED FOR TEMPORARY STAGING PURPOSES WITH PRIOR APPROVAL FROM SPU TO ENSURE THE BOAT RAMP IS ACCESSIBLE TO SPU AS NECESSARY FOR OPERATIONS AND LTERNATIVE METHODS OF RESERVOIR ACCESS SHALL BE COORDINATED WITH AND APPROVED BY SPU IF REQUIRED. BE UTILIZED FOR RESERVOIR ACCESS PENDING COORDINATION WITH AND APPROVAL BY SPU.
- ③ SHORE ANCHORS.
- ④ 12'Wx5'D BOAT GATE.
- ⑤ APPROXIMATE LOCATION OF DEBRIS BOOM FUSE ELEMENT.
- ⑥ LEFT SHORE ANCHOR ACCESS ROAD AND TURNAROUND.
- ⑦ RIGHT SHORE ANCHOR ACCESS ROAD AND TURNAROUND.

**OVERALL SITE PLAN**

SCALE: 1:100

**90% SUBMITTAL (NOT FOR CONSTRUCTION)**

**GENERAL SITE PLAN AND CONTRACTOR STAGING**

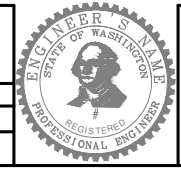


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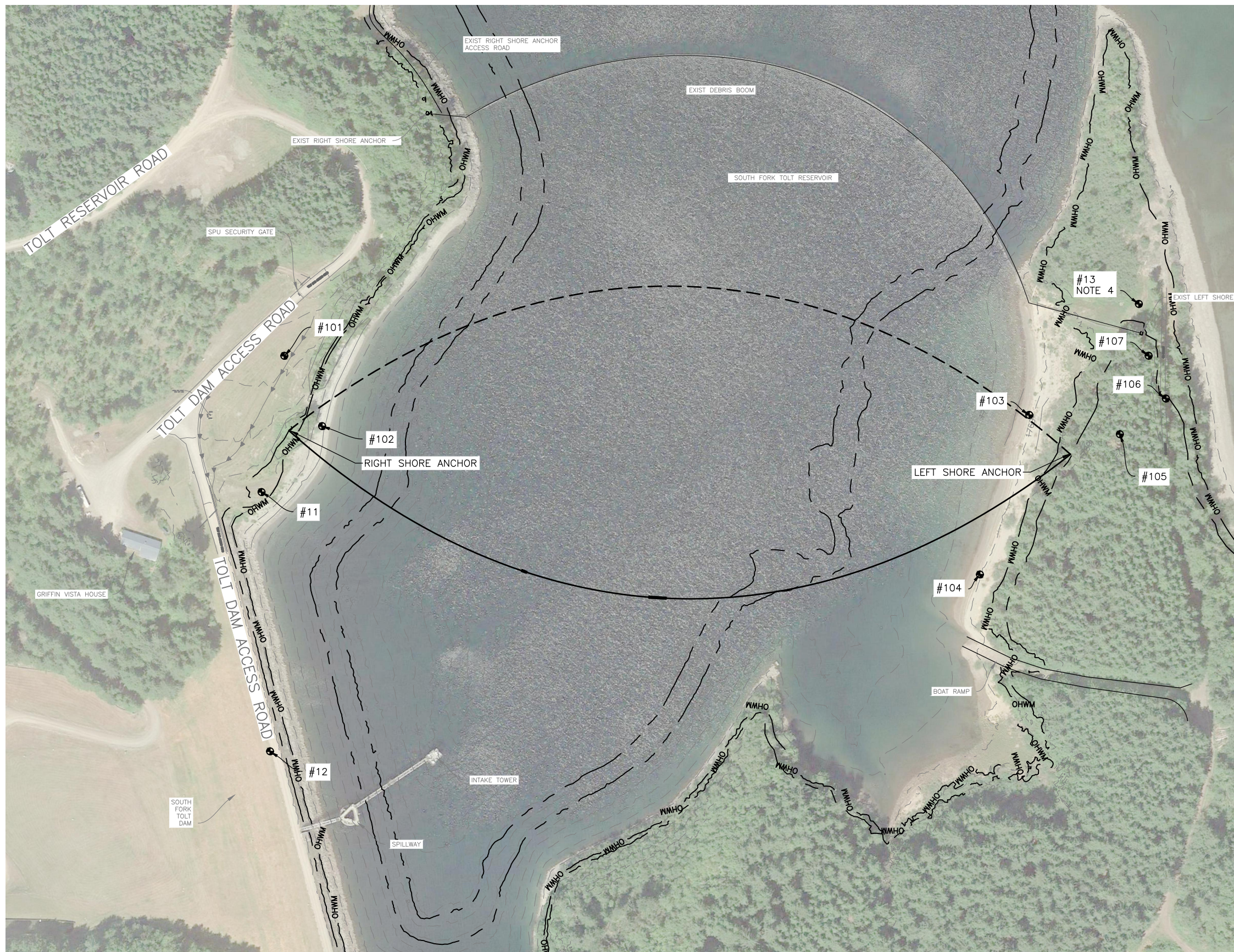
**SOUTH FORK TOLT RESERVOIR DEBRIS BOOM REPLACEMENT**

JOB #	PC C117069
CO	912-32
VPI #	G-005
SHEET	5 of XX

Vault Serial #	Date	Mark	Nature	Revisions	Made	Checked	Revised
38810							

C:\Vault\20\SPU\South Tolt Debris Boom\G005.dwg wood Jul-06-22 10:33am

SDCI ##### SDOT #####



**SHEET NOTES:**

1. PROJECT TOPOGRAPHY DEVELOPED FROM GROUND SURVEY PERFORMED BY SURVEYOR CHRISTOPHER ROYAK PLS NOVEMBER 9, 2020 AND FROM BATHYMETRIC SURVEY PERFORMED BY TERRASOND, LTD. ON AUGUST 14-18, 2017 AND MAY 2-4, 2018. CONTRACTOR SHALL CONFIRM AND VERIFY GROUND ELEVATIONS PRIOR TO CONSTRUCTION.
2. THE HORIZONTAL DATUM FOR THE PROJECT IS BASED UPON THE WASHINGTON STATE PLANE, NORTH ZONE, NORTH AMERICAN DATUM OF 1983 (NAD83) 2011 EPOCH 2010.00 IN U.S. SURVEY FEET.
3. THE VERTICAL DATUM FOR THE PROJECT IS BASED UPON THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88, GEOID 12B) IN U.S. SURVEY FEET. SOME OF THE DOCUMENTED RESERVOIR AND DAM ELEVATIONS ARE REPORTED IN SWD DATUM. THE DATUM CORRECTION VARIES BY LOCATION, BUT NAVD88 ELEVATIONS CAN BE CONVERTED TO SWD DATUM BY SUBTRACTING 3.5 TO 3.7 FEET.
4. CONTRACTOR SHALL PRESERVE AND PROTECT ALL SURVEY MONUMENTS THAT DO NOT REQUIRE REPLACEMENT. SURVEY MONUMENT #13, IN PARTICULAR, IS ESSENTIAL TO THE MONITORING OF THE SOUTH FORK TOLT DAM AND NO CHANGES TO OR REPLACEMENT OF SURVEY MONUMENT #13 WILL BE ENTERTAINED. IF PROPOSED CONSTRUCTION, CHANGES TO PROPOSED CONSTRUCTION, OR OTHER ACTIVITY NECESSITATES REMOVAL OR DESTRUCTION OF A SURVEY MONUMENT, AT LEAST 2 WORKING DAYS PRIOR TO THIS WORK, THE CONTRACTOR MUST PROVIDE THE ENGINEER WITH A COPY OF THE DEPARTMENT OF NATURAL RESOURCES (DNR) PERMIT AUTHORIZING THE REMOVAL OR DESTRUCTION OF THE SURVEY MONUMENT PER WAC 332-120. REMOVAL OR DESTRUCTION IS DEFINED TO MEAN THE PHYSICAL DISTURBANCE OR COVERING OF A SURVEY MONUMENT SUCH THAT THE SURVEY POINT IS NO LONGER VISIBLE OR READILY ACCESSIBLE. BEFORE PHYSICAL COMPLETION, THE CONTRACTOR MUST PROVIDE THE ENGINEER A COPY OF THE DNR REPORT FORM WITH EVIDENCE THAT EACH SURVEY MONUMENT HAS BEEN REPLACED OR RESTORED TO ITS PRECONSTRUCTION POSITION. FOR PERMITTING INFORMATION SEE [WWW.DNR.WA.GOV/PUBLICATIONS/ENG\\_PLSO\\_REMOVE\\_DESTROY\\_MONUMENT.ZIP](http://WWW.DNR.WA.GOV/PUBLICATIONS/ENG_PLSO_REMOVE_DESTROY_MONUMENT.ZIP) OR CALL DNR AT (360) 902-1230. AT THE TIME THE PERMITS ARE PROVIDED TO THE ENGINEER, THE CONTRACTOR MUST FORWARD A COPY OF THIS INITIAL DNR PERMIT WITH AUTHORIZING SIGNATURES AND FINAL REPORT FORM TO THE LAND SURVEY MANAGER, SEATTLE PUBLIC UTILITIES, PHYSICAL ADDRESS: SEATTLE MUNICIPAL TOWER, 700 FIFTH AVENUE, OR MAILING ADDRESS: PO BOX 34018, SEATTLE, WA 98124-4018.

VAULT SERIAL #	DATE	MARK	NATURE	MADE	CHK'D	REV'D
38810			REVISIONS			

**Primary Survey Control Table**

POINT #	NORTHING	EASTING	ELEVATION	DESCRIPTION
101	254871.55	1429706.22	1804.49	RC 40925301
102	254738.26	1429777.79	1757.28	RC 40925302
103	254759.45	1431118.54	1758.89	RC 40925401
104	254456.98	1431024.80	1759.57	RC 40925402
105	254722.88	1431290.30	1785.22	RC 40925601
106	254790.59	1431377.35	1776.17	SPK 40925602
107	254871.71	1431344.82	1783.64	RC 40925603

**Survey Monument Preservation Table**

POINT #	NORTHING	EASTING	DESCRIPTION
11	254613.22	1429663.09	IP 38910702
12	254121.60	1429679.03	MIC TD07
13	254969.79	1431326.24	PED ROGER

**PROJECT CONTROL PLAN**  
SCALE: 1:100

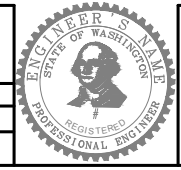
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BY: . . . . .  
CITY PURCHASING & CONTRACTING SERVICES DIRECTOR

DESIGNED TB	CHECKED RS	DRAWN RW	CHECKED TB
INITIALS AND DATE		INITIALS AND DATE	
RECEIVED		REVISIED AS BUILT	

ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE CITY OF SEATTLE STANDARD PLANS AND SPECIFICATIONS AND OTHER DOCUMENTS CALLED FOR IN SECTION 0-02.3 OF THE PROJECT MANUAL.



**Seattle Public Utilities**  
ORDINANCE NO. . . . . PW NO. . . . .  
SCALE: AS NOTED

**PROJECT CONTROL PLAN**

**SOUTH FORK TOLT RESERVOIR DEBRIS BOOM REPLACEMENT**

PC	C117069
CO	912-32
VPI #	G-006
SHEET	6 OF XX

C:\Vault20\SPU\South Tolt Debris Boom\G006.dwg wood Jul-06-22 10:34am

SDCI ##### SDOT #####

**GENERAL NOTES:**

1. CONTRACTOR SHALL REPAIR ALL EXIST SURFACES, UTILITIES, AND IMPROVEMENTS IMPACTED BY CONSTRUCTION, WHICH ARE NOT INDICATED TO BE DEMOLISHED.
2. CONTRACTOR SHALL KEEP ALL CONSTRUCTION WITHIN THE WORK BOUNDARIES DEFINED FOR THIS PROJECT, AS INDICATED. THIS INCLUDES, BUT IS NOT LIMITED TO VEHICLES AND EQUIPMENT, LIMITS OF TRENCH EXCAVATION, STOCKPILED EXCAVATED MATERIAL, BACKFILL MATERIAL, AND PIPE MATERIAL. CONTRACTOR IS ALLOWED THE USE OF EXISTING ACCESS ROADS, BUT SHALL ACT IN FULL ACCORDANCE WITH DIRECTION PROVIDED BY THE OWNER.
3. SEE SPECIFICATION 31 00 00 FOR AGGREGATE MATERIAL TYPES.
4. ALL MATERIAL FURNISHED ON, OR FOR THE PROJECT, MUST MEET THE MINIMUM REQUIREMENTS OF APPROVING AGENCIES. AT THE REQUEST OF THE APPROVING AGENCY OR THE DESIGN ENGINEER, CONTRACTORS SHALL FURNISH PROOF THAT ALL MATERIALS INSTALLED ON THIS PROJECT MEET THE SPECIFICATION REQUIREMENTS SET FORTH IN THE PROJECT SPECIFICATIONS.
5. ANY DEVIATION FROM THE APPROVED PLANS AND SPECIFICATIONS MUST HAVE DESIGN ENGINEER AND OWNER APPROVAL IN WRITING PRIOR TO CONSTRUCTION.
6. ALL DISTURBED SURFACES SHALL BE RETURNED TO ORIGINAL OR BETTER CONDITIONS.
7. SHADING, SCREENING, OR LIGHT-LINING OF PROJECT FEATURES IS USED TO INDICATE EXISTING COMPONENTS OR TO DE-EMPHASIZE PROPOSED IMPROVEMENTS FOR WHICH INFORMATION IS PRESENTED ELSEWHERE IN THE DRAWINGS. REFER TO CONTENT OF EACH SHEET FOR USAGE.

**GENERAL ESC NOTES:**

1. THE CONTRACTOR SHALL SUBMIT AN EROSION AND SEDIMENT CONTROL PLAN FOR WORK DURING CONSTRUCTION THAT MEETS ALL FEDERAL, STATE, AND LOCAL REQUIREMENTS.
2. THE CONTRACTOR IS RESPONSIBLE FOR IMPLEMENTATION AND MAINTENANCE OF EROSION AND SEDIMENT CONTROL MEASURES (MULCHING OF STRAW, SAND DIVERSION DITCHES, ETC.) DICTATED BY FIELD CONDITIONS TO PREVENT EROSION OR THE INTRODUCTION OF DIRT, MUD, OR DEBRIS TO EXIST PUBLIC OR PRIVATE ROADWAYS, ONTO ADJACENT PROPERTIES, INTO THE RESERVOIR, OR INTO ANY OTHER SURFACE WATER BODY DURING ANY PHASE OF CONSTRUCTION OPERATIONS. SPECIAL ATTENTION SHALL BE GIVEN TO ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES NOTED BELOW.
3. THE GENERAL EROSION AND SEDIMENT CONTROL PLAN ON THE C-DRAWINGS ARE PROVIDED TO AID THE CONTRACTOR IN DEVELOPING THE EROSION AND SEDIMENT CONTROL PLAN.
4. EROSION CONTROL DETAILS ARE FOR INFORMATION ONLY TO AID THE CONTRACTOR. THE FINAL LOCATIONS AND DETAILS SHALL BE SHOWN ON THE CONTRACTOR'S PREPARED STORMWATER POLLUTION PREVENTION PLAN (SWPPP) DOCUMENT.
5. CONTRACTOR IS RESPONSIBLE TO PROVIDE ALL NECESSARY EROSION CONTROL MEASURES FOR THE DURATION OF THE PROJECT. MAINTENANCE OF BOTH TEMPORARY AND PERMANENT EROSION CONTROL MEASURES SHALL BE CONSIDERED INCIDENTAL.
6. ALL BMP REQUIRED MATERIALS SHALL MEET OR EXCEED KING COUNTY STORMWATER POLLUTION PREVENTION MANUAL AND WASHINGTON STATE DEPT. OF ECOLOGY STORMWATER MANAGEMENT MANUAL FOR WESTERN WASHINGTON REQUIREMENTS.
7. CONTRACTOR SHALL DEVELOP A SPILL PREVENTION, CONTAINMENT, AND RESPONSE PLAN THAT WILL BE ATTACHED TO THE SWPPP.

**BMP MEASURE NOTES:**

1. ALL RUNOFF FROM SITE CONSTRUCTION ACTIVITIES AND FROM RAINFALL EVENTS SHALL BE DETAINED ON-SITE AND FILTERED PRIOR TO DISCHARGE. STORMWATER RUNOFF SHALL NOT BE ALLOWED TO LEAVE THE SITE UNTREATED (LADEN W/ SUSPENDED SEDIMENT). IF THIS OCCURS, THE CONTRACTOR WILL BE HELD SOLELY RESPONSIBLE FOR ANY PERMIT VIOLATIONS AND FINES.
2. CONTRACTOR SHALL TAKE APPROPRIATE MEASURES TO PREVENT ACCUMULATION OF CONSTRUCTION WASTE AND LITTER ON-SITE.
3. CONTRACTOR SHALL INSTALL SILT FENCE AND/OR STRAW WATTLES AS INDICATED AND IN ANY ADDITIONAL LOCATIONS WHERE MATERIAL COULD LEAVE THE CONSTRUCTION SITE, AT THE CONTRACTOR'S EXPENSE.
4. THE SILT FENCE AND/OR STRAW WATTLES SHALL BE INSTALLED PRIOR TO ANY CONSTRUCTION ACTIVITIES.
5. STOCKPILED EXCAVATION MATERIALS SHALL BE PROTECTED FROM WATER AND WIND EROSION BY COVERING AS APPROPRIATE. WHEN EXPOSED FOR MORE THAN 14 DAYS, COVER STOCKPILES WITH IMPERMEABLE TARPS TO PROTECT DISTURBED SOILS AND SLOPES.
6. ALL TOP SOIL SHALL BE STRIPPED AND PLACED IN SEPARATE STOCKPILE. STOCKPILE SHALL BE USED IN AREAS OF REVEGETATION AND SHALL BE PLACED AND RESEDED. IN AREAS OF NOXIOUS WEED INFESTATION, IDENTIFIED IN THESE DRAWINGS AND AS IDENTIFIED BY THE OWNER PRIOR TO CONSTRUCTION, NO TOPSOIL SHALL BE REUSED, AND STRIPPED TOPSOIL FROM THESE AREAS WILL BE DISPOSED OF OFF-SITE, AS DISCUSSED IN SPECIFICATION 31 11 00.
7. CONTRACTOR SHALL HAVE ON-SITE AT ALL TIMES SPILL PREVENTION AND CONTROL MEASURES.

**EXCAVATION NOTES:**

1. EXIST BASE MAP MAY CONTAIN ERRORS AND DOES NOT INCLUDE BURIED UTILITIES IN THE PROJECT AREA. CONTRACTOR TO VERIFY LOCATION OF EXISTING STRUCTURES, BURIED UTILITIES, AND OVERHEAD UTILITIES PRIOR TO THE START OF CONSTRUCTION OR THE SUBMITTAL OF SHOP DRAWINGS.
2. THE CONTRACTOR SHALL PROTECT ALL EXISTING UTILITIES, INSTRUMENTATION, AND IMPROVEMENTS TO REMAIN.
3. THE CONTRACTOR SHALL CONTACT THE UTILITY AGENCIES FOR FIELD LOCATION OF BURIED UTILITIES, AT LEAST 72 HOURS PRIOR TO START OF CONSTRUCTION.

**GRADING AND FINAL STABILIZATION NOTES:**

1. ELEVATIONS GIVEN ARE TO FINISHED GRADE UNLESS OTHERWISE SHOWN.
2. SLOPE UNIFORMLY BETWEEN CONTOURS AND SPOT ELEVATIONS SHOWN.
3. SEE SPECIFICATIONS 31 00 00 AND 31 11 00 FOR SITE PREPARATION AND EARTHWORKS.
4. CLEARING, GRUBBING, AND GROUND DISTURBING ACTIVITIES SHALL BE CONFINED TO WITHIN THE CLEARING LIMITS AND SHALL MEET THE REQUIREMENTS OF THE SPECIFICATIONS. NO GRADING OR CONSTRUCTION ACTIVITIES SHALL OCCUR OUTSIDE OF THE PROPOSED IMPROVEMENTS SHOWN ON THE CONSTRUCTION PLANS FOR THIS PROJECT. PRESERVE EXISTING VEGETATION BEYOND DISTURBED AREA AND UTILIZE AS NATURAL BUFFER STRIPS.
5. CONTRACTOR SHALL REMOVE ALL TEMPORARY EROSION AND SEDIMENT CONTROL FACILITIES, FENCING, AND STAGING AREA MATERIALS WHEN CONSTRUCTION IS COMPLETE. NO CONSTRUCTION DEBRIS, DEMOLITION MATERIALS, OR EXCESS EQUIPMENT SHALL BE LEFT ON-SITE.
6. CONTRACTOR SHALL REGRADE DISTURBED SLOPES IN ACCORDANCE WITH THE GRADING PLANS DEPICTED IN THESE DRAWINGS. AREAS OF DISTURBED SLOPES OUTSIDE OF THE INDICATED FINISHED GRADE SHALL BE RESTORED BY THE CONTRACTOR TO NEAR EXISTING CONDITION, AND SHALL BE CONDUCTIVE TO THE USE OF THE OWNER'S PREFERRED MAINTENANCE EQUIPMENT. FINAL RESTORATION OF DISTURBED AREAS SHALL BE APPROVED PRIOR TO COMMENCEMENT OF PLANTING OR RESEEDING.
7. ESTABLISH A TEMPORARY VEGETATIVE COVER ON ALL DISTURBED AREAS AS SOON AS PRACTICAL AFTER THE LAST GROUND DISTURBING ACTIVITIES IN THE AREA. CONTRACTOR SHALL RESEED DISTURBED AREAS WITH NATIVE VEGETATION, PER SPECIFICATIONS, AND IN ACCORDANCE WITH THESE DRAWINGS.

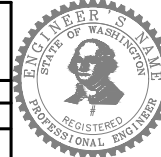
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NATURE	REVISIONS
DATE	MARK
VAULT SERIAL #	38810

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BY: . . . . .  
CITY PURCHASING & CONTRACTING SERVICES DIRECTOR

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**Seattle Public Utilities**  
ORDINANCE NO. . . . . PW NO. . . . .  
SCALE: NONE

**SOUTH FORK TOLT RESERVOIR DEBRIS BOOM REPLACEMENT**

JOB	PC C117069
CO	912-32
VPI #	C-001
SHEET	7 OF XX

GENERAL CIVIL AND EROSION AND SEDIMENT CONTROL NOTES

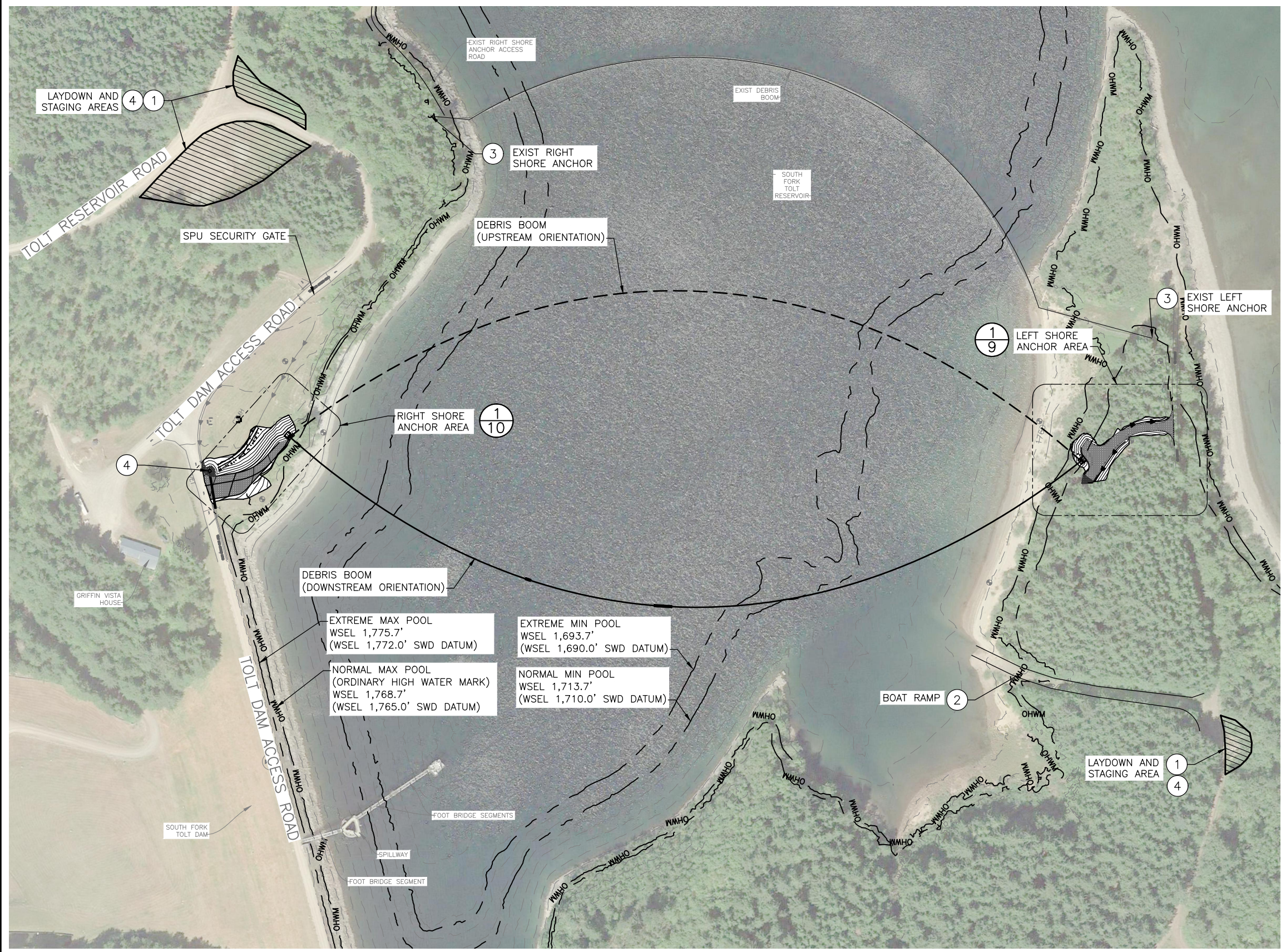
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**SHEET KEY NOTES:**

- ① CONTRACTOR STAGING AREAS SHALL HAVE APPROPRIATE MEASURES FOR EROSION AND SEDIMENT CONTROL, INCLUDING SILT FENCE, STOCKPILE COVERS, STRAW WATTLES, OR ANY OTHER BEST MANAGEMENT PRACTICES REQUIRED IN ACCORDANCE WITH THE CONTRACTOR'S SWPPP.
- ② EXISTING BOAT RAMP MAY BE USED FOR RESERVOIR ACCESS, SUBJECT TO THE SITE ACCESS NOTES ON G001 AND WASHINGTON STATE MARINE LAWS. ANY STAGING ON OR AROUND THE BOAT RAMP WILL REQUIRE ADEQUATE BEST MANAGEMENT PRACTICES IN ACCORDANCE WITH THE CONTRACTOR'S SWPPP.
- ③ CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING EROSION AND SEDIMENT CONTROL MEASURES SUITABLE TO THEIR REMOVAL AND DEMOLITION METHODS OF THE EXISTING DEBRIS BOOM, IN ACCORDANCE WITH THEIR SWPPP. ANY SURFACE RUNOFF IN THE DEMOLITION AREA SHALL BE TREATED BEFORE DISCHARGE TO THE RESERVOIR.
- ④ CONCRETE WASHOUT SHALL BE LOCATED EITHER IN THE CONTRACTOR STAGING AREA, OR NEAR THE RIGHT ANCHOR ACCESS ROAD, AND SHALL BE EITHER A PRE-FABRICATED CONCRETE WASHOUT CONTAINER OR AN ABOVE GRADE TEMPORARY CONCRETE WASHOUT FACILITY PER THE KING COUNTY SURFACE WATER DESIGN MANUAL APPENDIX D.



**EROSION AND SEDIMENT CONTROL KEY PLAN**

SCALE: 1:100

**90% SUBMITTAL (NOT FOR CONSTRUCTION)**

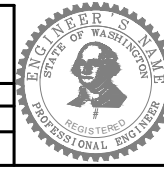
EROSION AND SEDIMENT CONTROL KEY PLAN

VAULT SERIAL #	DATE	MARK	NATURE	MADE CHKD REVD
38810			REVISIONS	



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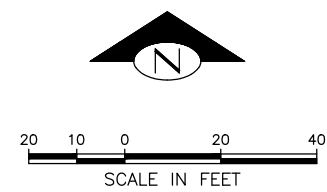
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DESIGNED AL	CHECKED JB	REVIEWED: DES. SDOT	CONST. PROJ. MGR.
DRAWN RW	CHECKED AL	RECEIVED	REVISED AS BUILT
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**Seattle Public Utilities**  
ORDINANCE NO. . . . . PW NO. . . . .  
SCALE: AS NOTED

**SOUTH FORK TOLT RESERVOIR DEBRIS BOOM REPLACEMENT**

JOB	PC C117069
CO	
VPI #	912-32
	<b>C-101</b>
SHEET	8 OF XX



**SHEET NOTES:**

1. DURING DEBRIS BOOM INSTALLATION, REMOVAL OF THE SILT FENCE WILL BE REQUIRED. IF EARTHWORK ACTIVITIES ARE ONGOING DURING INSTALLATION OF THE DEBRIS BOOM AND/OR VEGETATION HAS NOT BEEN ESTABLISHED ON DISTURBED AREAS, APPROPRIATE ALTERNATIVE EROSION CONTROL MEASURES SHALL BE EMPLOYED UNTIL ALL EARTH DISTURBING ACTIVITIES ARE COMPLETED AND VEGETATION IS ESTABLISHED.

**LEGEND:**

- SF — SILT FENCE
- OHWM — ORDINARY HIGH WATER MARK
- ▲▲▲ CHECK DAM

MADE CHG'D	REV'D
NATURE	REVISIONS
DATE	MARK
Vault Serial #	38810

EROSION AND SEDIMENT CONTROL ENLARGED PLAN 1  
8  
SCALE: 1:20

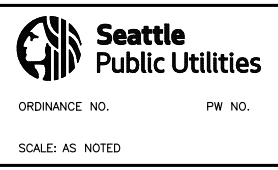
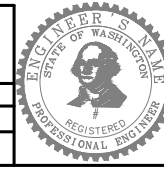
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EROSION AND SEDIMENT CONTROL ENLARGED PLAN 1



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INITIALS AND DATE		INITIALS AND DATE	
DESIGNED AL	CHECKED JB	REVIEWED: DES. SDOT	CONST. PROJ. MGR.
DRAWN RW	CHECKED AL	RECEIVED	REVISED AS BUILT
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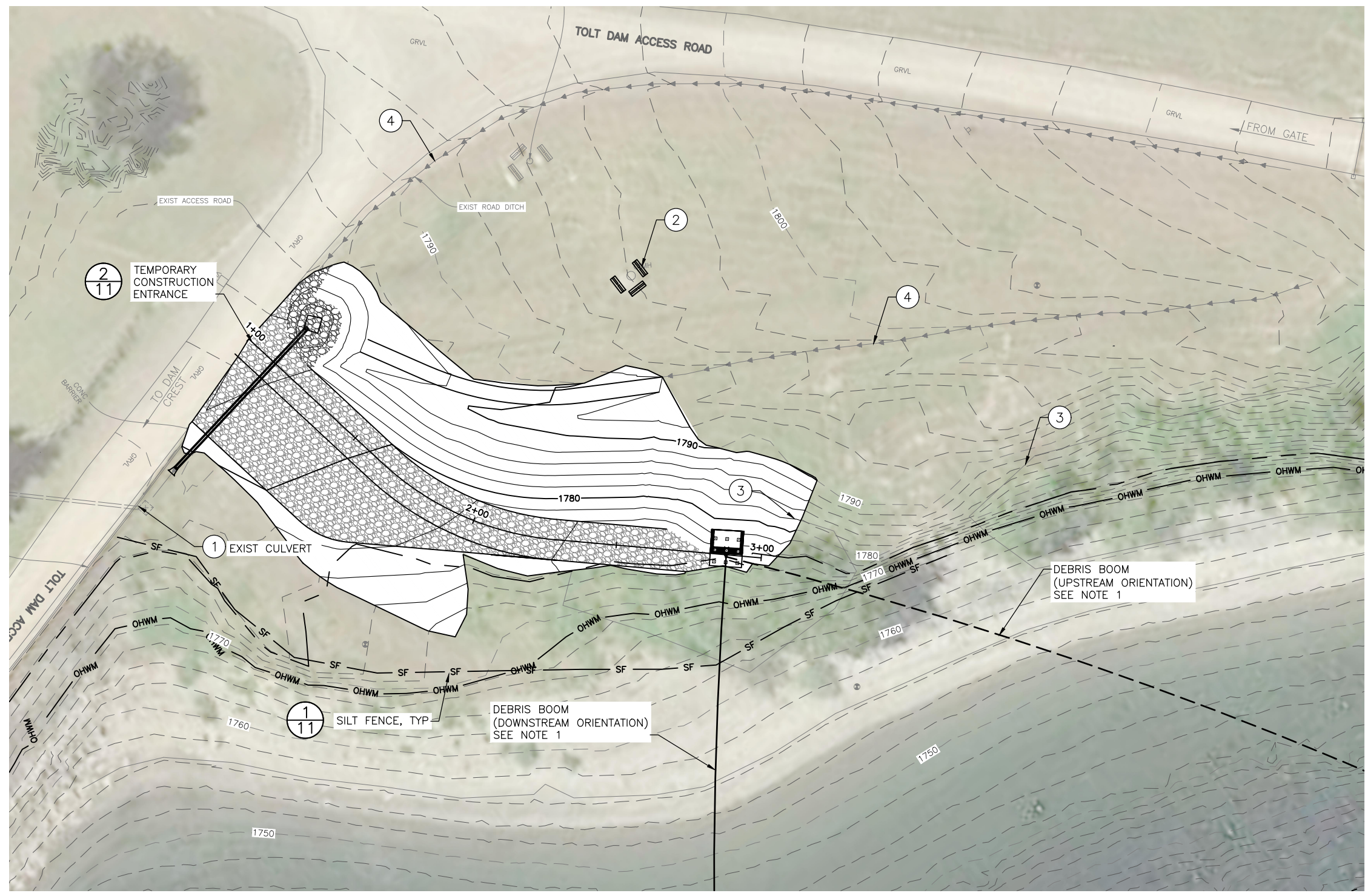
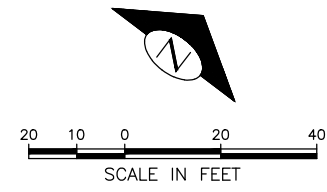


**SOUTH FORK TOLT RESERVOIR DEBRIS BOOM REPLACEMENT**

JOB	PC C117069
CO	
VPI #	912-32
<b>C-102</b>	
SHEET	9 OF XX

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**SHEET NOTES:**

1. DURING DEBRIS BOOM INSTALLATION, REMOVAL OF THE SILT FENCE WILL BE REQUIRED. IF EARTHWORK ACTIVITIES ARE ONGOING DURING INSTALLATION OF THE DEBRIS BOOM AND/OR VEGETATION HAS NOT BEEN ESTABLISHED ON DISTURBED AREAS, APPROPRIATE ALTERNATIVE EROSION CONTROL MEASURES SHALL BE EMPLOYED UNTIL ALL EARTH DISTURBING ACTIVITIES ARE COMPLETED AND VEGETATION IS ESTABLISHED.

**SHEET KEY NOTES:**

1. INSTALL SANDBAGS AROUND EXISTING CULVERT INLET AND CLEAR ANY SEDIMENT WEEKLY AND AFTER ANY PRECIPITATION EVENT.
2. PROTECT EXISTING INSTRUMENTATION FROM DAMAGE DURING ALL CONSTRUCTION ACTIVITIES WITH RIGID BARRIER, JERSEY BARRIERS OR EQUAL.
3. MAINTAIN EXISTING VEGETATION AROUND RIGHT SHORE ANCHOR GRADING TO THE EXTENT PRACTICAL.
4. CONTRACTOR SHALL PROVIDE TEMPORARY PIPES OR OTHER MEANS FOR BYPASSING DITCH FLOWS AROUND THE CONSTRUCTION AREA FOR THE DURATION OF CONSTRUCTION ACTIVITIES. BYPASS FLOWS MAY BE DISCHARGED TO THE EXISTING CATCH BASIN/CULVERT IN THE SOUTHWEST CORNER OF THE WORK AREA OR THE EXISTING DITCH ALONG THE WESTERN EDGE OF THE TOLT DAM ACCESS ROAD.

**LEGEND:**

- SF — SILT FENCE
- OHWM — ORDINARY HIGH WATER MARK

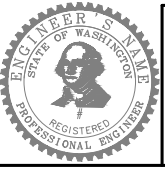
EROSION AND SEDIMENT CONTROL ENLARGED PLAN 1/8  
SCALE: 1:20

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DRAWN RW	CHECKED AL	RECEIVED	REVISED AS BUILT
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**Seattle Public Utilities**  
ORDINANCE NO. . . . . PW NO. . . . .  
SCALE: AS NOTED

**SOUTH FORK TOLT RESERVOIR DEBRIS BOOM REPLACEMENT**

JOB	PC C117069
CO	
VPI #	912-32
<b>C-103</b>	
SHEET 10 OF XX	

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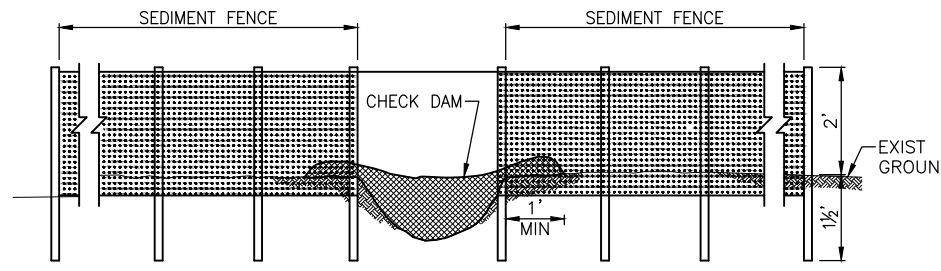
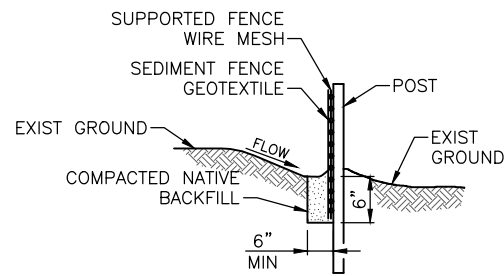
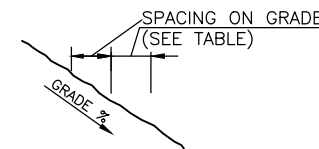
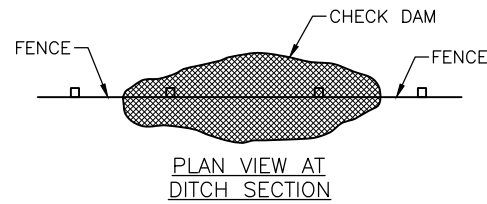
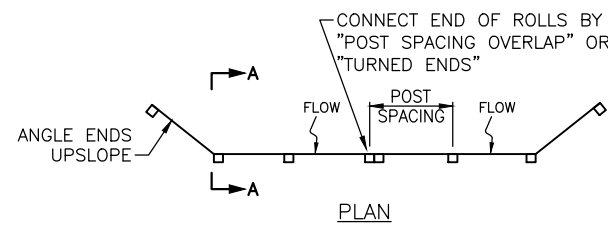


TABLE 1  
FENCE SPACING FOR GENERAL APPLICATION  
INSTALL PARALLEL ALONG CONTOURS AS FOLLOWS

GRADE	MAXIMUM SPACING ON GRADE
GRADE ≤ 0%	300'
10% ≤ GRADE < 15%	150'
15% ≤ GRADE < 20%	100'
20% ≤ GRADE < 30%	50'
30% ≤ GRADE	25'

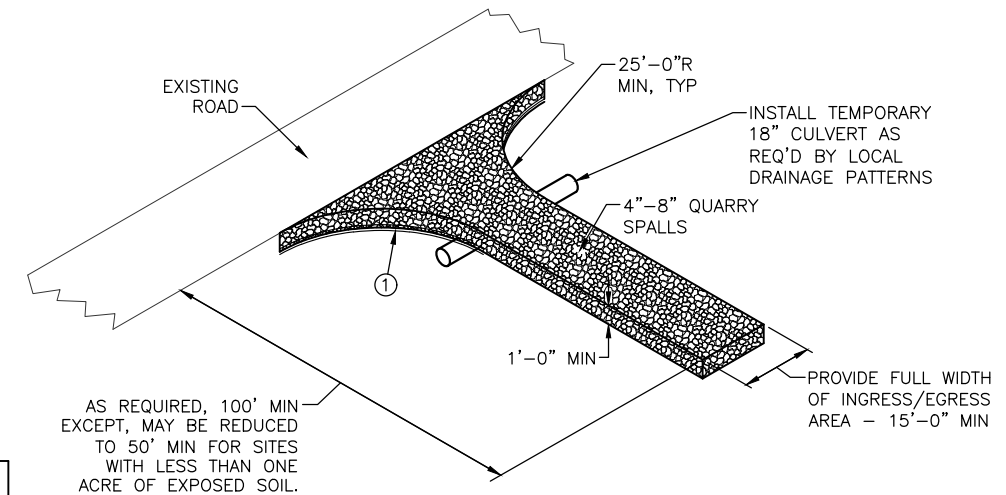
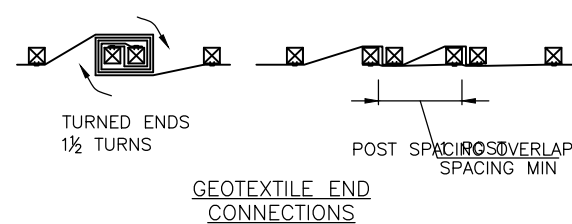
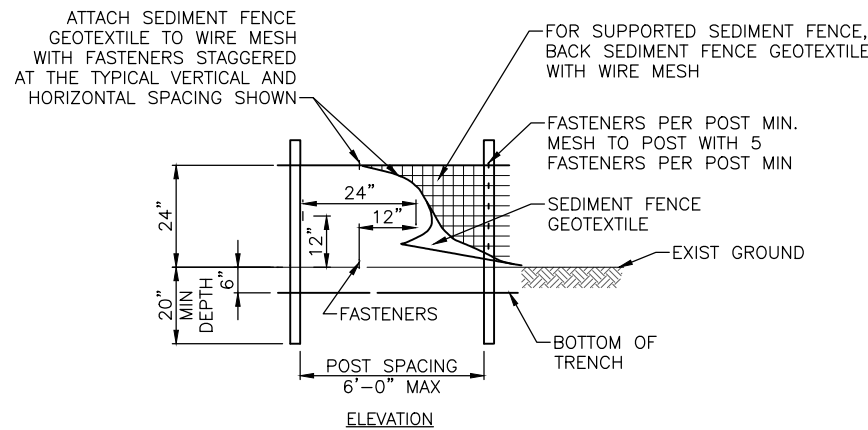


TABLE 2  
POST SPACING

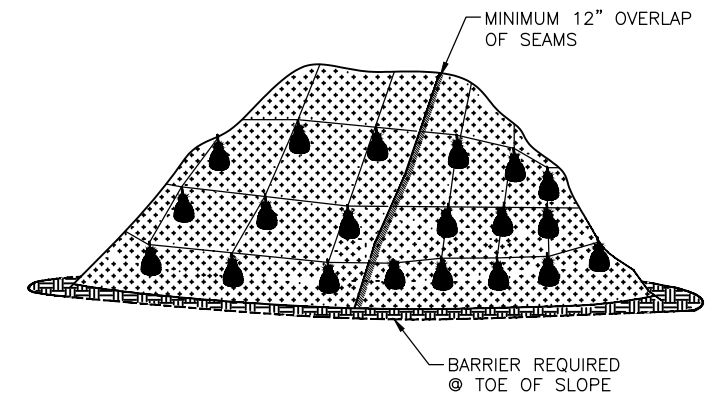
4'	SUPPORTED SEDIMENT FENCE
6'	UNSUPPORTED SEDIMENT FENCE WITH GEOTEXTILE ELONGATION * LESS THAN 50%
4'	UNSUPPORTED SEDIMENT FENCE WITH GEOTEXTILE ELONGATION * MORE THAN 50%

\* GEOTEXTILE GRAB ELONGATION VALUE AS DOCUMENTED BY MANUFACTURER'S DOCUMENTATION (SEE PROJECT SPECIFICATIONS).



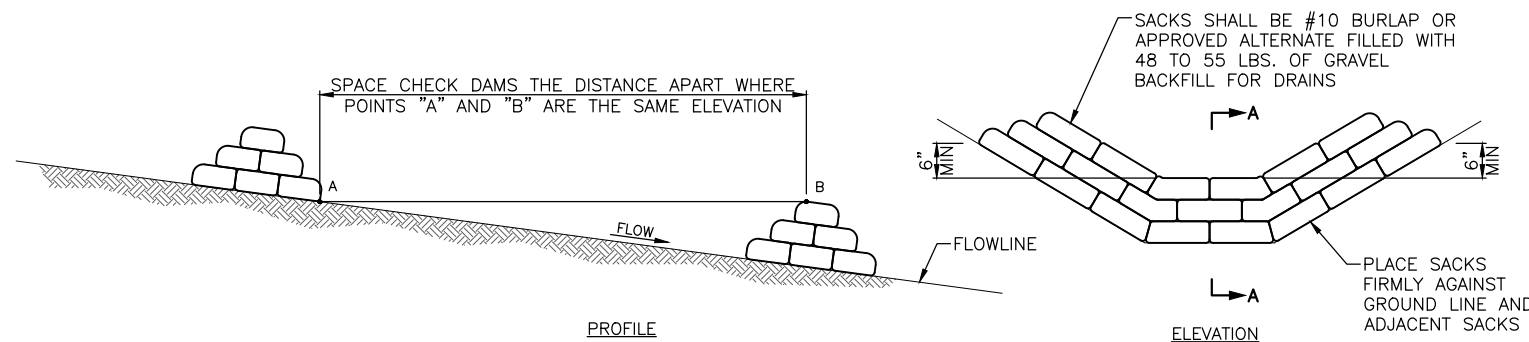
SILT FENCE DETAIL 1  
SCALE: NTS

TEMPORARY ENTRANCE 2  
SCALE: NTS



- NOTES:
1. MINIMUM 12" OVERLAP OF ALL SEAMS REQUIRED.
  2. BARRIER REQUIRED @ TOE OF STOCK PILE.
  3. COVERING MAINTAINED TIGHTLY IN PLACE BY USING SANDBAGS OR TIRES ON ROPES WITH A MAXIMUM 10' GRID SPACING IN ALL DIRECTIONS.

PLASTIC SHEETING 4  
SCALE: NTS



SANDBAG CHECK DAMS 3  
SCALE: NTS

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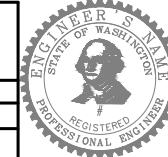
INITIALS AND DATE

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DES. SDOT  
CONST. PROJ. MGR.

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Seattle Public Utilities

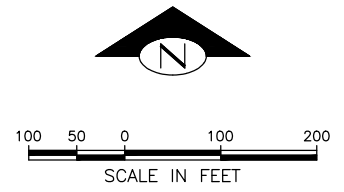
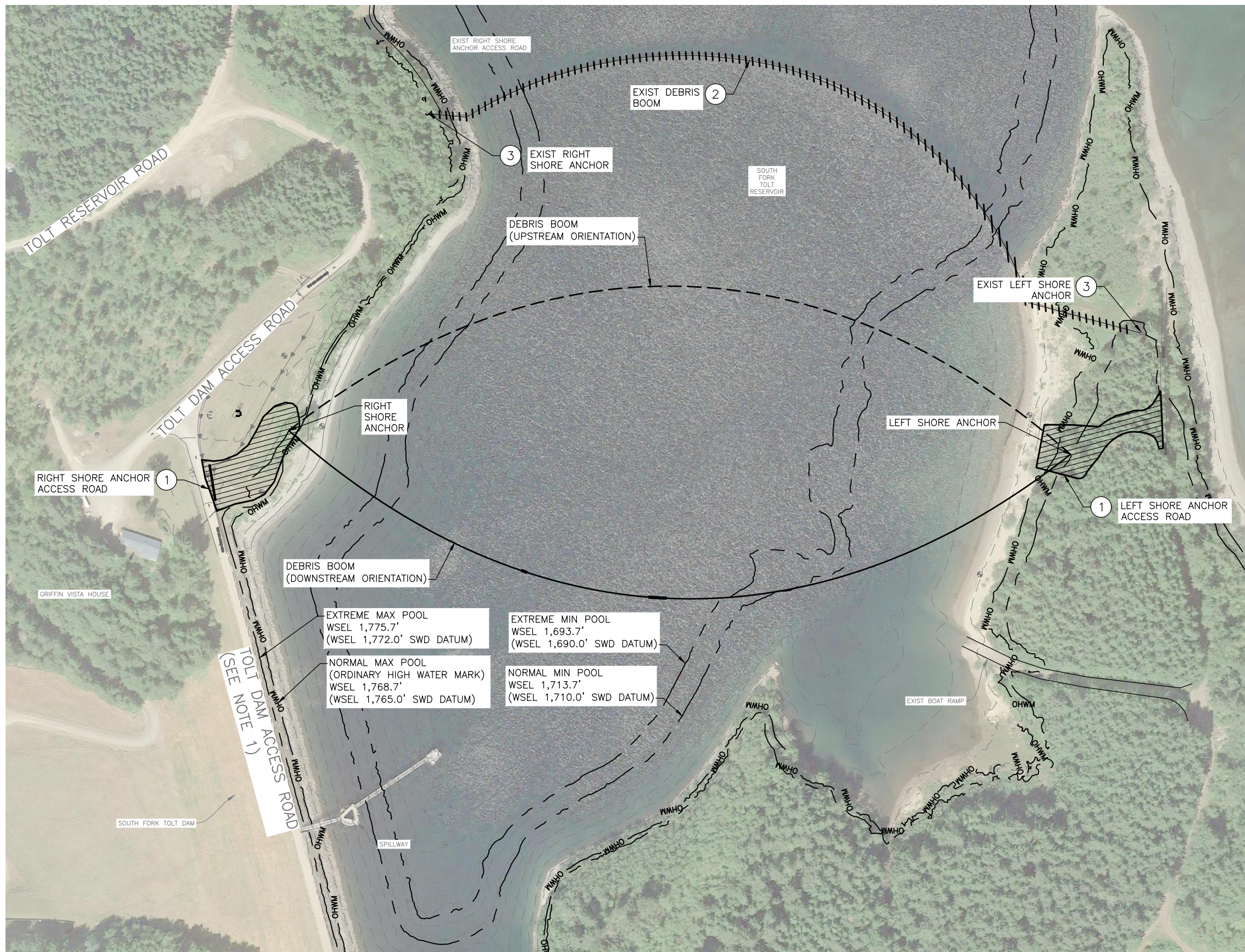
ORDINANCE NO. PW NO.

SCALE: AS NOTED

EROSION AND SEDIMENT CONTROL DETAILS

SOUTH FORK TOLT  
RESERVOIR DEBRIS BOOM  
REPLACEMENT

PC C117069  
CO  
VPI # 912-32  
C-201  
SHEET 11 OF XX



**SHEET NOTES:**

1. REFER TO G-001 AND G-004 FOR SITE AND RESERVOIR ACCESS NOTES AND REQUIREMENTS.

**DEMOLITION KEY NOTES:**

- 1 APPROXIMATE EXTENTS FOR CLEARING AND GRUBBING REQUIRED FOR CONSTRUCTION OF SHORE ANCHOR ACCESS ROADS. REFER TO CIVIL DRAWINGS FOR DELINEATION OF CLEARING AND GRUBBING ZONES, DEBRIS DISPOSAL REQUIREMENTS, AND ADDITIONAL INFORMATION.
- 2 AFTER COMPLETION OF THE DEBRIS BOOM SYSTEM, REMOVE THE EXISTING DEBRIS BOOM ASSEMBLY AND DISPOSE OFFSITE PER SPECIFICATIONS. THE EXISTING DEBRIS BOOM IS COMPRISED OF FORTY-EIGHT (48) HDPE LOG CLUSTERS STRAPPED TO A CONTINUOUS 2 1/4 -IN DIAMETER GALVANIZED STEEL WIRE STRAND. REFER TO THE CD300 SERIES DEMOLITION SHEETS FOR ADDITIONAL INFORMATION.
- 3 ABANDON EXISTING CONCRETE SHORE ANCHORS AFTER REMOVAL OF THE EXISTING DEBRIS BOOM SYSTEM. SEE DWG CD302 PHOTOS.

MADE	CHK'D	REV'D
NATURE	REVISIONS	
DATE	MARK	
VAULT SERIAL #		
38810		

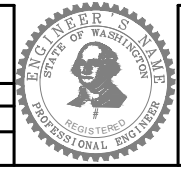
**OVERALL DEMOLITION PLAN**  
SCALE: 1:100

**90% SUBMITTAL (NOT FOR CONSTRUCTION)**



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SEATTLE, WASHINGTON . . . . . 20 . . . . .  
BY: . . . . .  
CITY PURCHASING & CONTRACTING SERVICES DIRECTOR

INITIALS AND DATE		INITIALS AND DATE	
DESIGNED TB	CHECKED RS	REVIEWED: DES. SDOT	CONST. PROJ. MGR.
DRAWN RW	CHECKED TB	RECEIVED	REVISED AS BUILT
ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE CITY OF SEATTLE STANDARD PLANS AND SPECIFICATIONS AND OTHER DOCUMENTS CALLED FOR IN SECTION 0-02.3 OF THE PROJECT MANUAL.			



**Seattle Public Utilities**  
ORDINANCE NO. . . . . PW NO. . . . .  
SCALE: AS NOTED

**DEBRIS BOOM DEMOLITION PLAN**

**SOUTH FORK TOLT RESERVOIR DEBRIS BOOM REPLACEMENT**

JOB	PC C117069
CO	
VPI #	912-32
<b>CD100</b>	
SHEET 12 OF XX	

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SDCI ##### SDOT #####



PHOTO – EXISTING DEBRIS BOOM FROM RIGHT SHORELINE (A)  
SCALE: NTS

**SHEET KEY NOTES:**

- ① THE EXISTING DEBRIS BOOM ASSEMBLY SHALL REMAIN IN-PLACE AND FUNCTIONAL FOR THE DURATION OF THE PROJECT UNTIL THE NEW DEBRIS BOOM ASSEMBLY AND SHORE ANCHORS HAVE BEEN INSTALLED.
- ② FOLLOWING INSTALLATION OF THE NEW DEBRIS BOOM ASSEMBLY, REMOVE AND DISPOSE EXISTING DEBRIS BOOM ASSEMBLY INCLUDING HDPE LOGS, BOAT GATE, STAINLESS STEEL CONNECTION HARDWARE, GALVANIZED DEBRIS CURTAIN FRAMES, AND GALVANIZED STRAND. REFER TO DWG CD302, PHOTO C, FOR ADDITIONAL INFORMATION ABOUT THE EXISTING DEBRIS BOOM ASSEMBLY.
- ③ LOCATION OF EXISTING LEFT SHORE ANCHOR. ABANDON IN PLACE. REFER TO DWG CD302, PHOTO D FOR ADDITIONAL INFORMATION.

**SHEET NOTES:**

- 1. PHOTOGRAPH SHOWS APPROXIMATE RESERVOIR ELEVATION 1,732 FT. PHOTOGRAPH DATE IS SEPTEMBER 26, 2019.

VAULT SERIAL #	DATE	MARK	NATURE	MADE CHKD	REVD
38810			REVISIONS		

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CITY PURCHASING & CONTRACTING SERVICES DIRECTOR

INITIALS AND DATE		INITIALS AND DATE	
DESIGNED TB	CHECKED RS	REVIEWED:	CONST. PROJ. MGR.
		DES. SDOT	
DRAWN RW	CHECKED TB	RECEIVED	
		REVISED AS BUILT	



**Seattle Public Utilities**  
ORDINANCE NO. . . . . PW NO. . . . .  
SCALE: AS NOTED

DEBRIS BOOM DEMOLITION PHOTOS 1

**SOUTH FORK TOLT RESERVOIR DEBRIS BOOM REPLACEMENT**

JOB	PC C117069
CO	
VPI #	912-32
<b>CD301</b>	
SHEET 13 OF XX	

SDCI ##### SDOT #####



PHOTO – EXISTING DEBRIS BOOM AT LEFT SHORELINE

SCALE: NTS

A  
-



PHOTO – EXISTING RIGHT SHORE ANCHOR

SCALE: NTS

B  
-

**SHEET KEY NOTES:**

- 1 FOLLOWING INSTALLATION OF THE NEW DEBRIS BOOM ASSEMBLY, REMOVE AND DISPOSE EXISTING DEBRIS BOOM ASSEMBLY INCLUDING HDPE LOGS, BOAT GATE, STAINLESS STEEL CONNECTION HARDWARE, GALVANIZED DEBRIS CURTAIN FRAMES, AND GALVANIZED STRAND. REFER TO PHOTO C/CD302 FOR INFORMATION ABOUT THE TYPICAL EXISTING DEBRIS BOOM SEGMENTS.
- 2 EXISTING LEFT SHORE ANCHOR. CUT STEEL ANCHOR CAP FLUSH TO CONCRETE BASE AND ABANDON CONCRETE IN PLACE.
- 3 EXISTING RIGHT SHORE ANCHOR. CUT STEEL ANCHOR CAP FLUSH TO CONCRETE BASE AND ABANDON CONCRETE IN PLACE.
- 4 DEMOLISH EXISTING GALVANIZED STEEL WIRE STRAND, MISCELLANEOUS WIRE ROPE, AND CONNECTORS. THE PRIMARY WIRE STRAND HAS AN APPROXIMATE LENGTH OF 1,600 FT AND WEIGHT OF 20,000 LBS.
- 5 TYPICAL EXISTING HDPE LOG CLUSTER. EACH CLUSTER CONSISTS OF FIVE (5) 13-INCH DIAMETER BY 30-FT LONG RECYCLED PLASTIC LOGS, CONNECTED TOGETHER WITH STAINLESS STEEL THRU-BOLTS. APPROXIMATE WEIGHT = 7,000 LBS EACH.
- 6 GALVANIZED STEEL DEBRIS CURTAIN.
- 7 STAINLESS STEEL CABLE STRAPS.

**SHEET NOTES:**

- 1. PHOTOGRAPH SHOWS APPROXIMATE RESERVOIR ELEVATION 1,732 FT. PHOTOGRAPH DATE IS SEPTEMBER 26, 2019.



NOTE:  
1. THE DEBRIS BOOM SEGMENT PICTURED HERE IS A SPARE ASSEMBLY FOR THE EXISTING SYSTEM LOCATED NEAR THE GRIFFIN VISTA HOUSE.

PHOTO – TYPICAL EXISTING DEBRIS BOOM SEGMENT

SCALE: NTS

C  
-



PHOTO – EXISTING LEFT SHORE ANCHOR

SCALE: NTS

D  
-

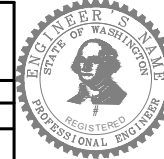
**90% SUBMITTAL (NOT FOR CONSTRUCTION)**

**DEBRIS BOOM DEMOLITION PHOTOS 2**



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DESIGNED TB	CHECKED RS	REVIEWED: DES. SDOT	CONST. PROJ. MGR.
DRAWN RW	CHECKED TB	RECEIVED	REVISED AS BUILT
BY: . . . . . CITY PURCHASING & CONTRACTING SERVICES DIRECTOR		ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE CITY OF SEATTLE STANDARD PLANS AND SPECIFICATIONS AND OTHER DOCUMENTS CALLED FOR IN SECTION 0-02.3 OF THE PROJECT MANUAL.	



**Seattle Public Utilities**  
ORDINANCE NO. . . . . PW NO. . . . .  
SCALE: AS NOTED

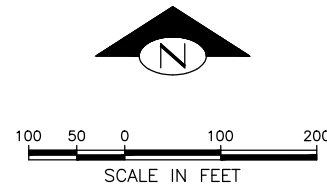
**SOUTH FORK TOLT RESERVOIR DEBRIS BOOM REPLACEMENT**

JOB	PC C117069
CO	912-32
VPI #	CD302
SHEET	14 OF XX

VAULT SERIAL #	38810
DATE	MARK
NATURE	REVISIONS
MADE	CHK'D
REV'D	

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wood Jul-06-22 10:35am

SDCI ##### SDOT #####



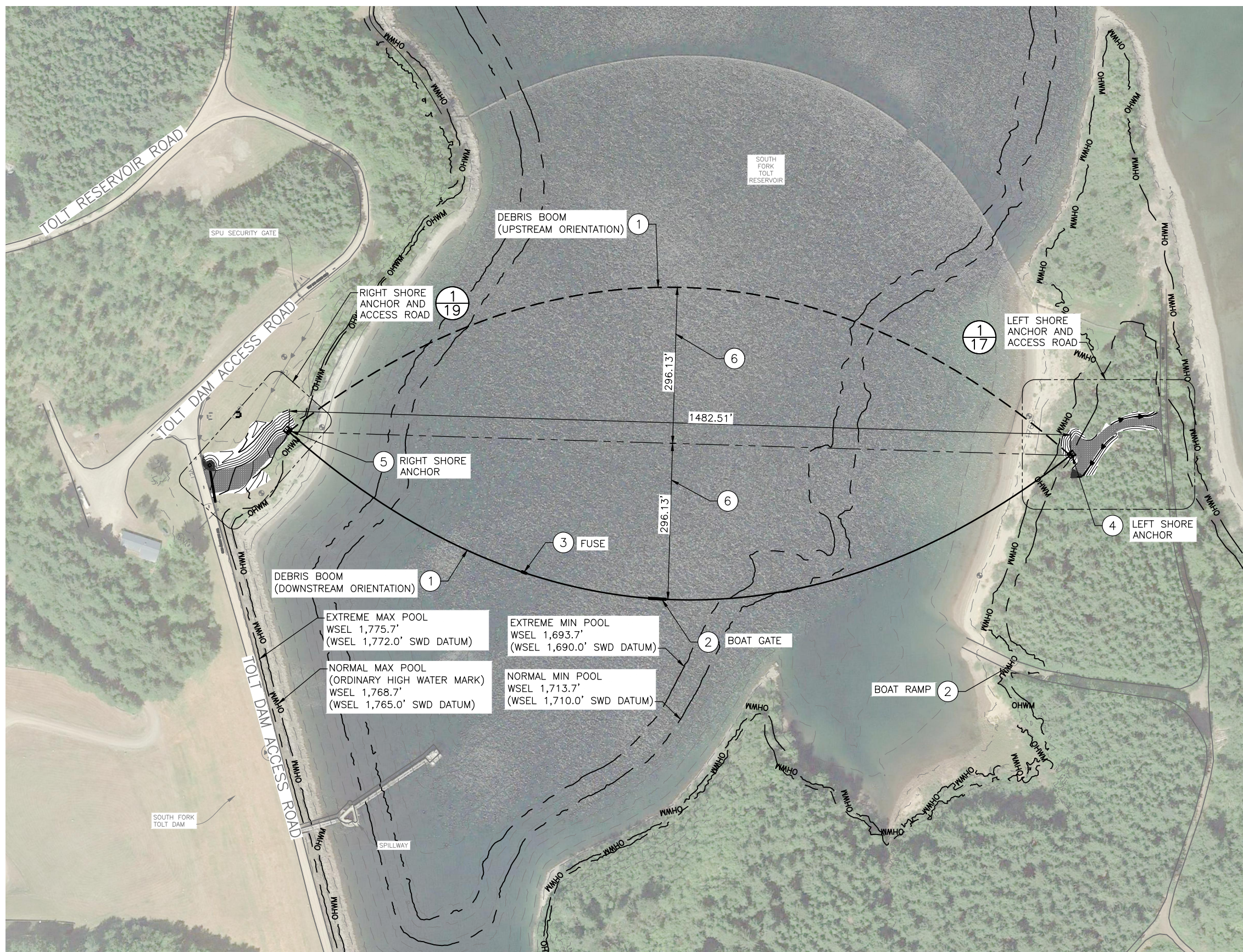
**SHEET NOTES:**

- OVERALL DEBRIS BOOM PLAN REFLECTS THE LOADED POSITION (DOWNSTREAM ORIENTATION).
- DEBRIS BOOM DESIGN SUMMARY TABLE:

UNIFORM HORIZONTAL LOADING	165 LB/FT	UNFACTORED (SERVICE) LOAD
SAG DIMENSION (APPROX)	20% STRAIGHTLINE DISTANCE BETWEEN ANCHORS	AT EXTREME MAX POOL WSEL
DEBRIS BOOM REQ'D TENSILE STRENGTH	130 KIPS	UNFACTORED (SERVICE) LOAD @ EXTREME MAX POOL WSEL
DEBRIS BOOM FUSE COUPLER EXPECTED (BREAKING) STRENGTH	130 KIPS	TOLERANCE +/- XX%
SHORE ANCHOR DESIGN LATERAL STRENGTH	160 KIPS	ALLOWABLE STRESS DESIGN

**SHEET KEY NOTES:**

- DEBRIS BOOM SYSTEM. REFER TO SHT 33 FOR PRIMARY ASSEMBLY DETAILS.
- BOAT GATE ASSEMBLY. LOCATION TO ALLOW PASSAGE AT EXTREME MINIMUM POOL WSEL.
- DEBRIS BOOM FUSE ELEMENT. REFER TO SHT 34 FOR DETAILS.
- LEFT SHORE ANCHOR, APPROXIMATE LOCATION. REFER TO SHT 30 FOR DETAILS.
- RIGHT SHORE ANCHOR, APPROXIMATE LOCATION. REFER TO SHT 30 FOR DETAILS.
- DEBRIS BOOM SAG DIMENSION PER SHEET NOTE 2.



**OVERALL SITE PLAN**

SCALE: 1:100

**90% SUBMITTAL (NOT FOR CONSTRUCTION)**

OVERALL SITE PLAN

DATE	MARK	NATURE	MADE BY	CHK'D	REV'D
3/8/10					



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DESIGNED AL	CHECKED JB	DRAWN RW	CHECKED AL
INITIALS AND DATE		INITIALS AND DATE	
RECEIVED		REVISOR AS BUILT	

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ORDINANCE NO. . . . . PW NO. . . . .  
SCALE: AS NOTED

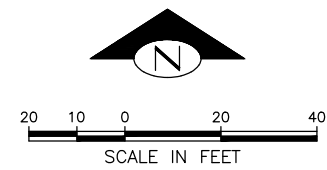
**SOUTH FORK TOLT RESERVOIR DEBRIS BOOM REPLACEMENT**

JOB #	PC C117069
CO	
VPI #	912-32
<b>CS101</b>	
SHEET 15 OF XX	

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**SHEET NOTES:**

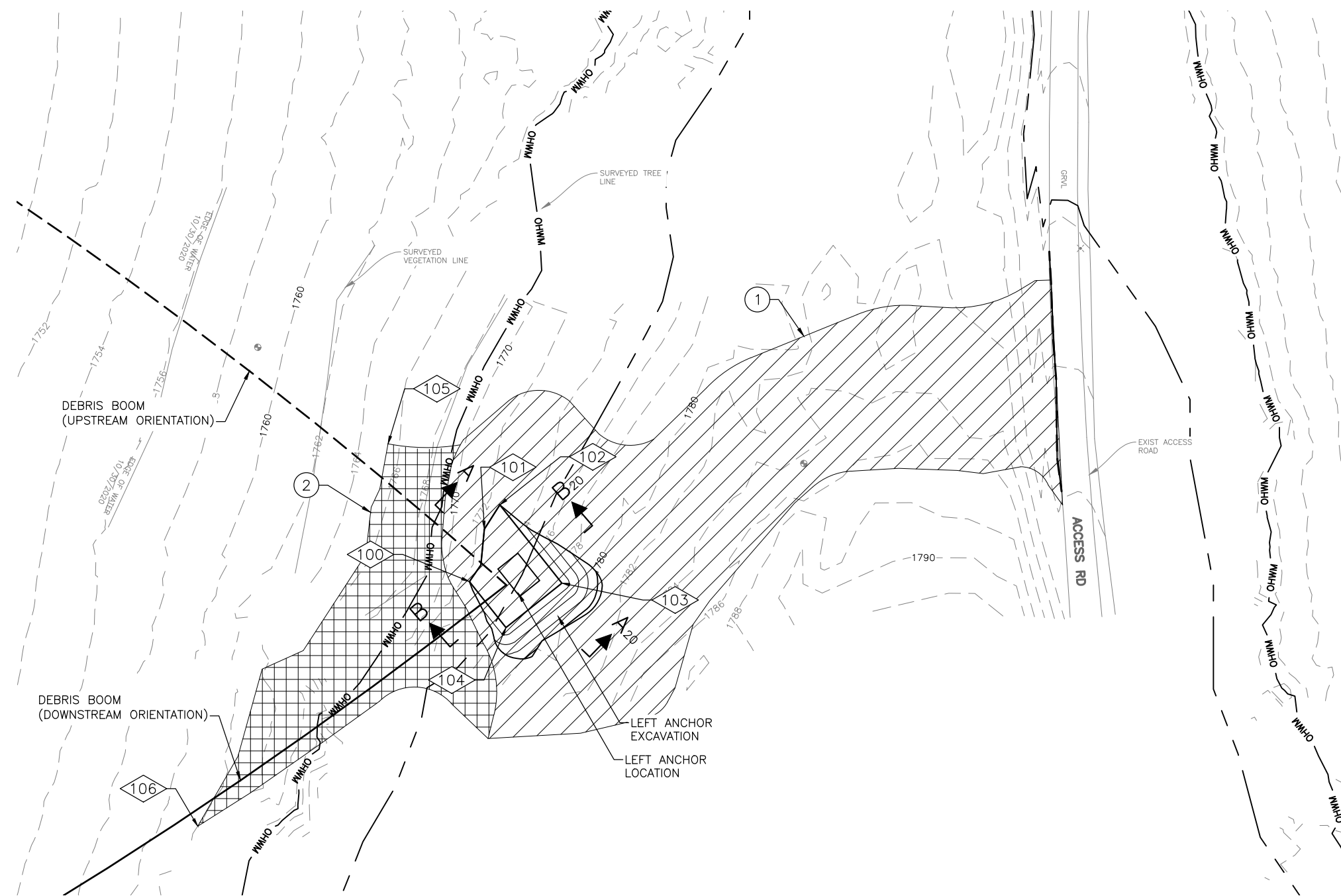
- MINOR CHANGES TO THIS EXCAVATION PLAN MAY BE NECESSARY DUE TO CONSTRAINTS ENCOUNTERED IN THE FIELD. CUT SLOPES SHALL BE SUBJECT TO ASSESSMENT OF FIELD CONDITIONS AND SHALL BE AT THE CONTRACTOR'S DISCRETION IN ACCORDANCE WITH WASHINGTON OSHA GUIDELINES. CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR MAINTAINING SAFE CONDITIONS NEAR CUT SLOPES ACCOUNTING FOR GROUNDWATER/STORMWATER CONDITIONS, CONSTRUCTION SURCHARGES, AND OTHER FACTORS IMPACTING STABILITY.
- CONTRACTOR MAY USE EXCAVATED MATERIAL IN PROJECT FILL MATERIALS PROVIDED IT IS ABLE TO BE PROCESSED TO MEET MATERIAL SPECIFICATIONS IN SPEC 31 00 00. DISPOSAL OF EXCESS MATERIAL SHALL BE PER SPECIFICATION 31 00 00.
- CONTRACTOR SHALL NOT REMOVE TREES OUTSIDE OF THE CLEARING LIMITS WITHOUT THE EXPRESS PERMISSION OF THE OWNER.

**SHEET KEY NOTES:**

- CLEAR AND GRUB PER SPEC 31 11 00 (ABOVE AND BELOW GRADE) AREA FOR ROAD AND ANCHOR GRADING WITH 5' BUFFER ON ALL SIDES.
- CLEAR LARGE VEGETATION AND BRUSH PER SPEC 31 11 00 (ABOVE GRADE ONLY) FROM AREA OF DEBRIS BOOM SWING DOWN TO VEGETATION LINE AT APPROX ELEVATION 1762, WITH 5' BUFFER ON BOOM SWING LIMITS

**LEGEND:** (SEE SPEC 31 11 00)

- CLEARING AND GRUBBING LIMITS
- CLEARING ONLY LIMITS



**LEFT ANCHOR CLEARING AND EXCAVATION PLAN** 1/15  
SCALE: 1:20

**LEFT SHORE ANCHOR CLEARING AND EXCAVATION COORDINATES**

POINT NO	NORTHING	EASTING	ELEV	DESCRIPTION
100	254685.75	1431185.10	1772.5	EXCAVATION TOE
101	254702.25	1431189.82	1772.5	EXCAVATION TOE
102	254709.88	1431194.67	1772.5	EXCAVATION TOE
103	254685.19	1431214.13	1772.5	EXCAVATION TOE
104	254671.38	1431196.52	1772.5	EXCAVATION TOE
105	254729.08	1431159.52	1762.0	CLEARING LIMITS
106	254609.19	1431099.89	1762.0	CLEARING LIMITS

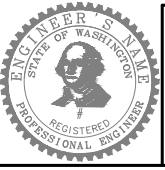
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CITY PURCHASING & CONTRACTING SERVICES DIRECTOR

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DESIGNED AL	REVIEWED: DES. CONST.
CHECKED JB	SDOT PROJ. MGR.
DRAWN RW	RECEIVED
CHECKED AL	REVISED AS BUILT

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ORDINANCE NO. . . . . PW NO. . . . .  
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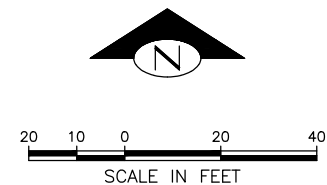
**SOUTH FORK TOLT RESERVOIR DEBRIS BOOM REPLACEMENT**

JOB # PC C117069  
CO # 912-32  
SHEET 16 OF XX

VAULT SERIAL #	DATE	MARK	NATURE	MADE CHKD REVD
38810			REVISIONS	

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**SHEET KEY NOTES:**

- ① SITE INVESTIGATION YIELDED NO DISCERNIBLE ROADSIDE DITCH ON THE WEST SIDE OF THE EXISTING ACCESS ROAD AT OR IMMEDIATELY UPGRADIENT OF THIS LOCATION. NEW LEFT ANCHOR ACCESS ROAD GRADED TO DRAIN SMALL UPLAND DRAINAGE AREA TO THE NORTH FOLLOWING EXISTING DRAINAGE PATTERNS.

**LEFT ANCHOR ACCESS ROAD SITE COORDINATES**

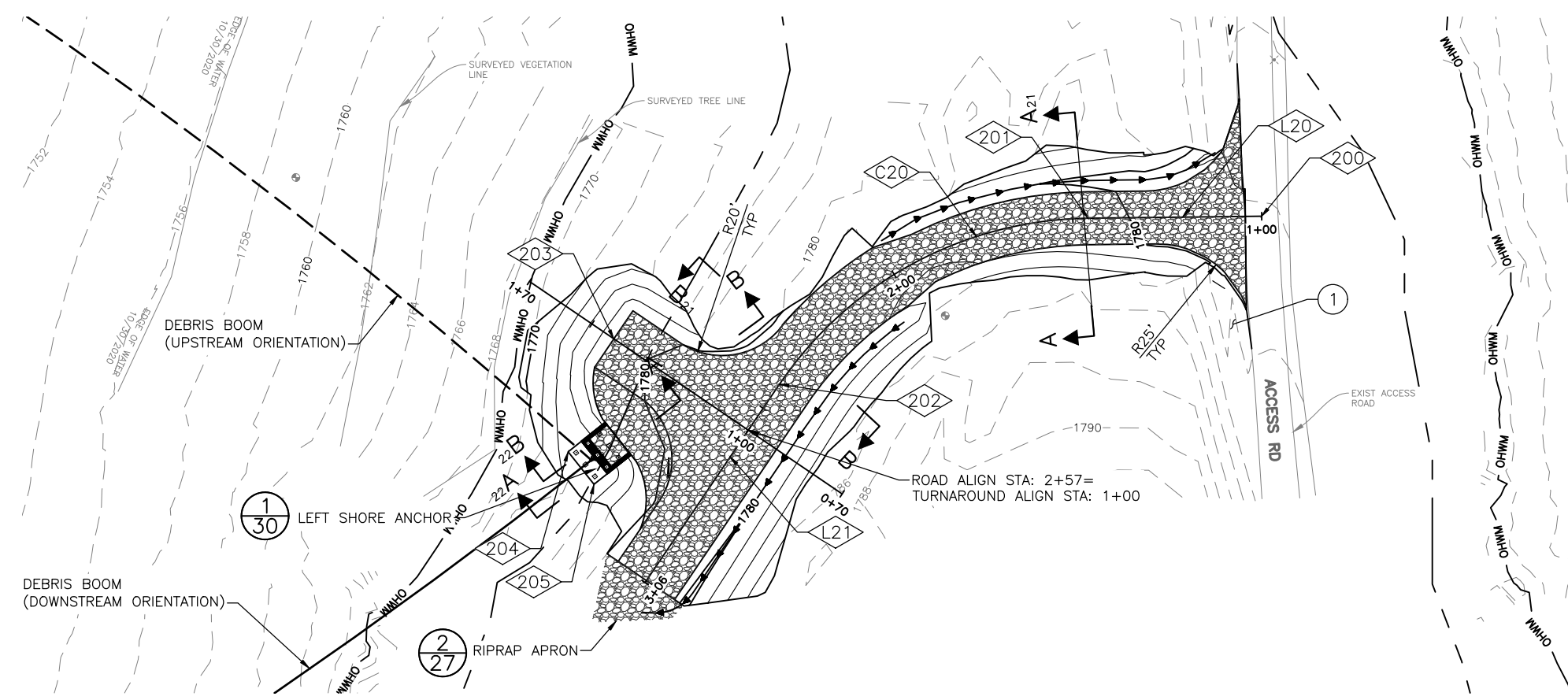
POINT NO	NORTHING	EASTING	DESCRIPTION
◊200	254749.22	1431374.04	START ALIGNMENT STA 1+00
◊201	254748.68	1431328.11	PC STA 1+48
◊202	254704.79	1431246.48	PT STA 2+42
◊203	254716.76	1431202.65	TURNAROUND ALIGN STA: 1+43
◊204	254686.91	1431190.57	ANCHOR CORNER, WEST
◊205	254678.30	1431197.41	ANCHOR CORNER, SOUTH

**LEFT ANCHOR ACCESS ROAD ALIGNMENT LINE TABLE**

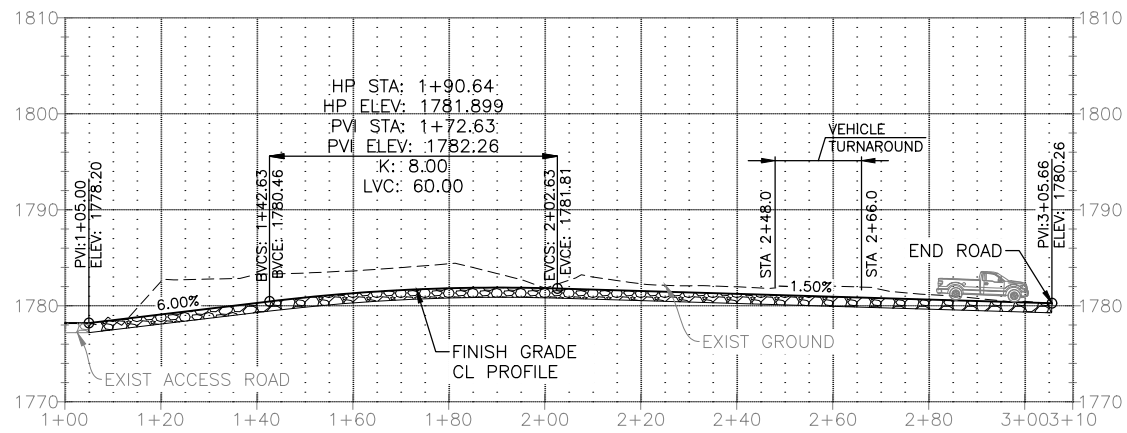
LINE NO	LENGTH	DIRECTION
◊L20	45.93	S 89° 20' 14.8857" W
◊L21	63.36	S 34° 07' 27.0801" W

**LEFT ANCHOR ACCESS ROAD ALIGNMENT CURVE TABLE**

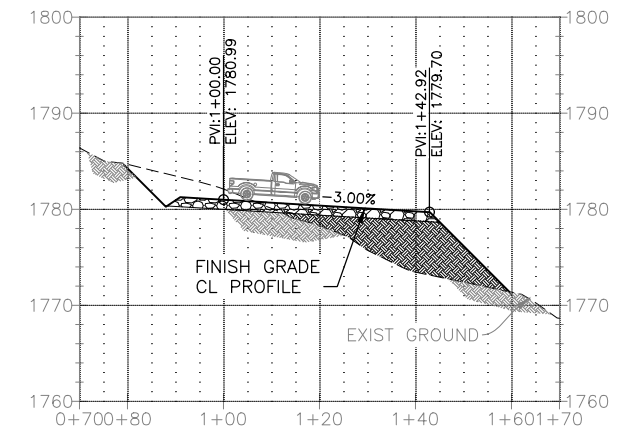
POINT NO	LENGTH	RADIUS	TANGENT	DELTA	CHORD DIRECTION	CHORD LENGTH
◊C20	96.36	100	52.29	55° 12' 47.8056"	S 61° 43' 50.9829" W	92.68



**LEFT ANCHOR GRADING PLAN** 1/15  
SCALE: 1:20



**LEFT ANCHOR ACCESS ROAD PROFILE**  
SCALE: HORIZ 1:20  
VERT 1:10



**LEFT ANCHOR TURNAROUND PROFILE**  
SCALE: HORIZ 1:20  
VERT 1:10

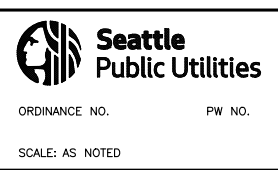
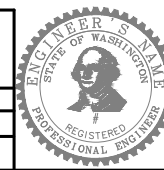
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BY: . . . . .  
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INITIALS AND DATE	INITIALS AND DATE
DESIGNED AL	REVIEWED: DES. CONST.
CHECKED JB	SDOT PROJ. MGR.
DRAWN RW	RECEIVED
CHECKED AL	REVISED AS BUILT

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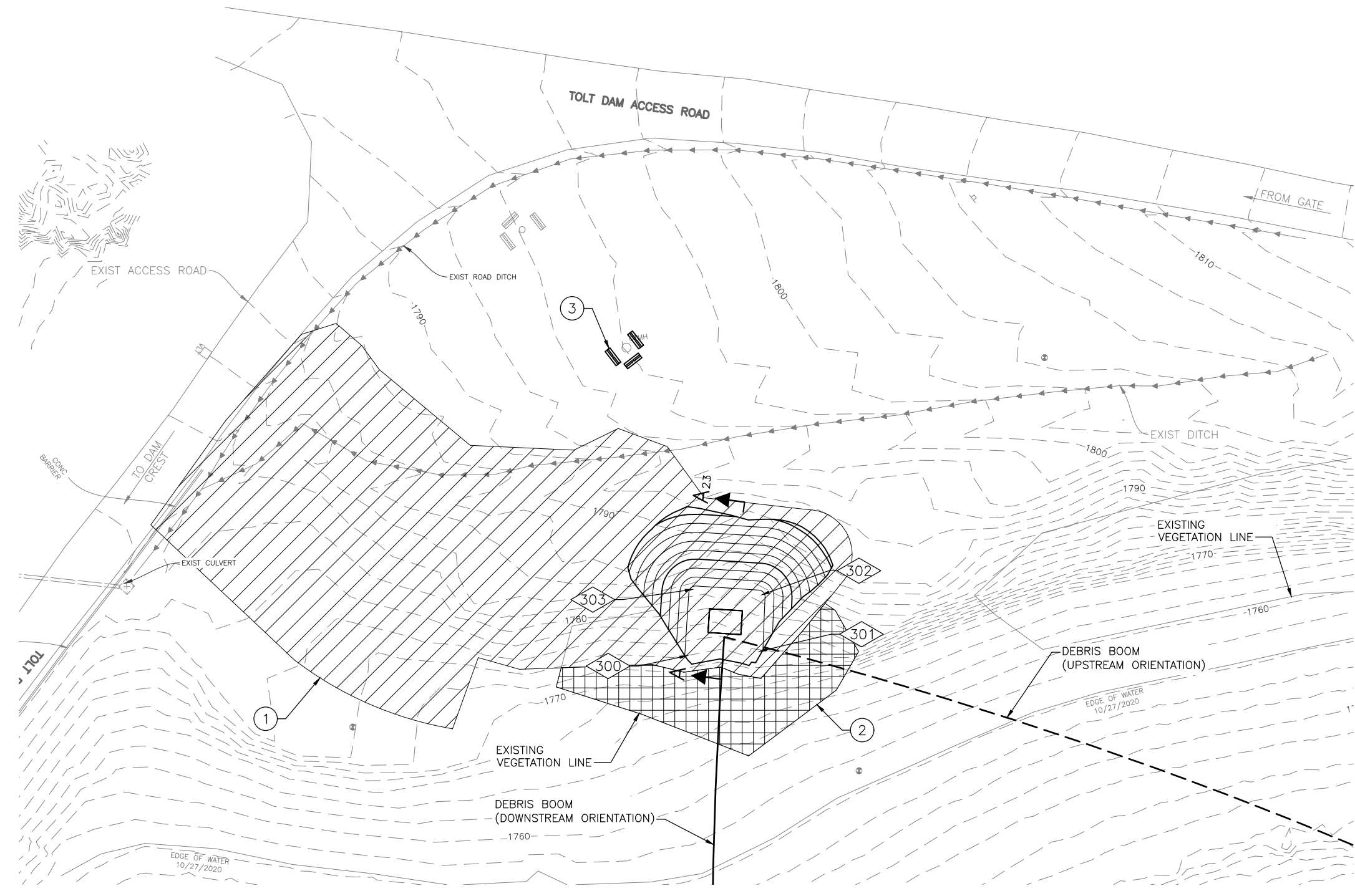
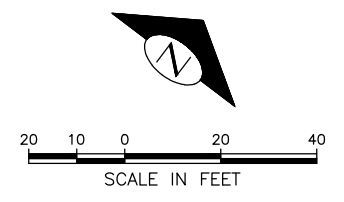
**SOUTH FORK TOLT RESERVOIR DEBRIS BOOM REPLACEMENT**

PC C117069  
CO  
VPI # 912-32  
**CS103**  
SHEET 17 OF XX

VAULT SERIAL #	38810
DATE	MARK
NATURE	REVISIONS
MADE	CHK'D
REV'D	

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**SHEET NOTES:**

1. CHANGES TO THIS EXCAVATION PLAN MAY BE NECESSARY DUE TO CONSTRAINTS ENCOUNTERED IN THE FIELD.
2. CUT SLOPES SHALL BE SUBJECT TO ASSESSMENT OF FIELD CONDITIONS AND SHALL BE AT THE CONTRACTOR'S DISCRETION IN ACCORDANCE WITH WASHINGTON OSHA GUIDELINES. CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR MAINTAINING SAFE CONDITIONS NEAR CUT SLOPES ACCOUNTING FOR GROUNDWATER/STORMWATER CONDITIONS, CONSTRUCTION SURCHARGES, AND OTHER FACTORS IMPACTING STABILITY. CONTRACTOR MAY ALTERNATIVELY IMPLEMENT SHORING METHODS FOR TEMPORARY EXCAVATIONS, IN ACCORDANCE WITH WASHINGTON OSHA GUIDELINES.
3. CONTRACTOR MAY USE EXCAVATED MATERIAL IN PROJECT FILL MATERIALS PROVIDED IT IS ABLE TO BE PROCESSED TO MEET MATERIAL SPECIFICATIONS IN SPEC 31 00 00. DISPOSAL OF EXCESS MATERIAL SHALL BE COORDINATED WITH THE OWNER.
4. CONTRACTOR IS ADVISED THAT SPU SURVEYS HAVE IDENTIFIED THE NOXIOUS HAWKWEED IN THE PROJECT AREA SURROUNDING THE RIGHT SHORE ANCHOR AND RIGHT ANCHOR ACCESS ROAD. EARTHWORKS IN THE VICINITY OF NOXIOUS WEEDS SHALL FOLLOW INSTRUCTIONS IN SPECIFICATION 31 11 00.

**SHEET KEY NOTES:**

- ① CLEAR AND GRUB PER SPEC 31 11 00 (ABOVE AND BELOW GRADE) AREA FOR ROAD GRADING, ANCHOR BLOCK INSTALLATION, CHANNEL REROUTING, AND SUMP GRADING.
- ② CLEAR LARGE VEGETATION AND BRUSH PER SPEC 31 11 00 (ABOVE GRADE ONLY) FROM AREA OF DEBRIS BOOM SWING DOWN TO RESERVOIR.
- ③ PROTECT EXISTING INSTRUMENTATION FROM DAMAGE DURING ALL CONSTRUCTION ACTIVITIES WITH RIGID BARRIER, JERSEY BARRIERS OR EQUAL.

**LEGEND:** (SEE SPEC 31 11 00)

- CLEARING AND GRUBBING LIMITS
- CLEARING ONLY LIMITS

**RIGHT ANCHOR CLEARING AND EXCAVATION PLAN** 1  
SCALE: 1:20 15

POINT NO	NORTHING	EASTING	ELEV	DESCRIPTION
◊300	254716.28	1429712.22	1772.5	EXCAVATION TOE
◊301	254736.22	1429725.88	1772.5	EXCAVATION TOE
◊302	254731.20	1429695.87	1772.5	EXCAVATION TOE
◊303	254748.43	1429711.42	1772.5	EXCAVATION TOE

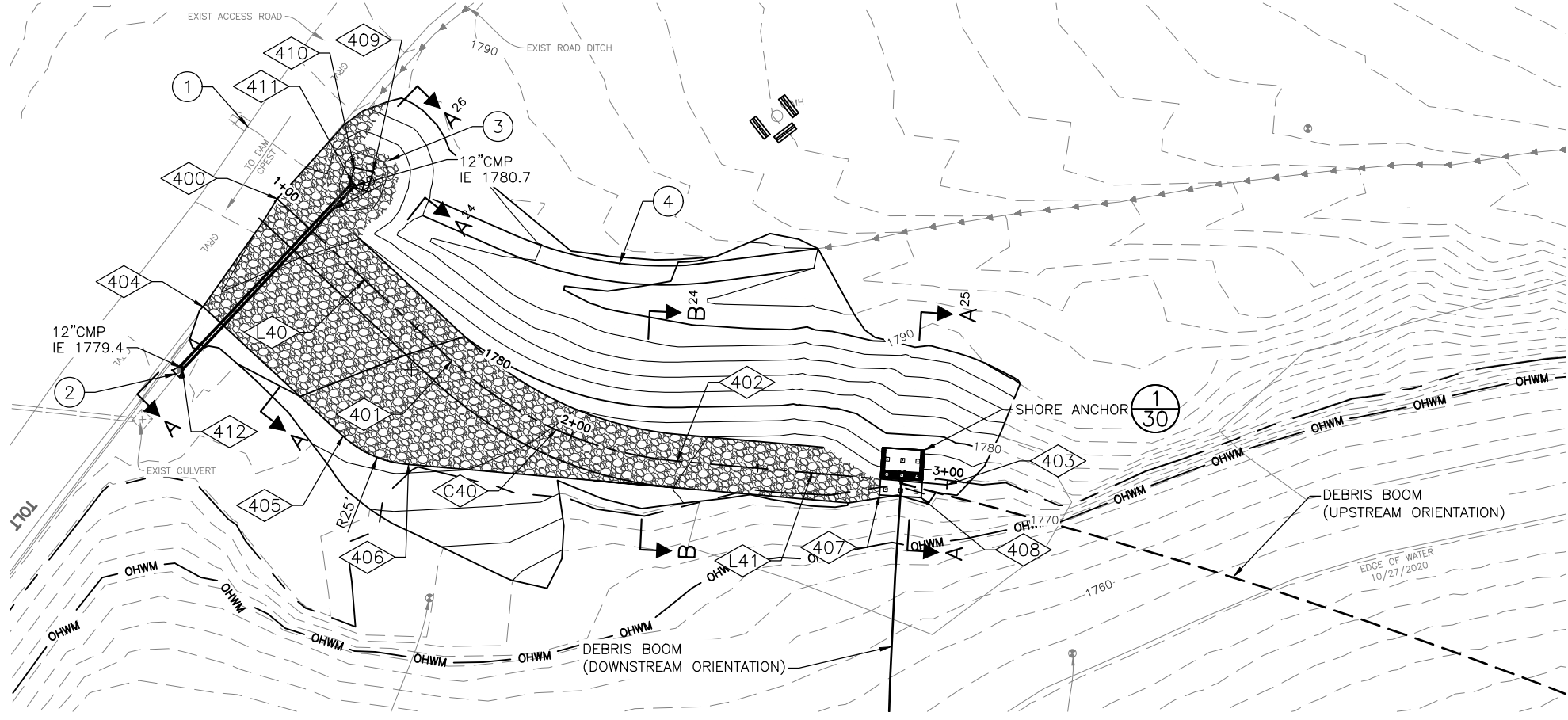
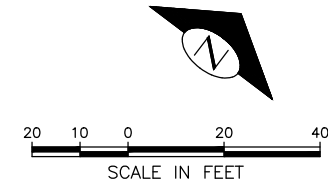
**90% SUBMITTAL (NOT FOR CONSTRUCTION)**

	APPROVED FOR ADVERTISING <b>LIZ ALZEER</b> DEPARTMENT OF FINANCE & ADMINISTRATIVE SERVICES SEATTLE, WASHINGTON	DESIGNED AL CHECKED JB	DRAWN RW CHECKED AL	INITIALS AND DATE REVIEWED: DES. SDOT CONST. PROJ. MGR. RECEIVED REVISED AS BUILT			<b>SOUTH FORK TOLT RESERVOIR DEBRIS BOOM REPLACEMENT</b> SHEET 18 OF XX
	BY: CITY PURCHASING & CONTRACTING SERVICES DIRECTOR	ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE CITY OF SEATTLE STANDARD PLANS AND SPECIFICATIONS AND OTHER DOCUMENTS CALLED FOR IN SECTION 0-02.3 OF THE PROJECT MANUAL.		ORDINANCE NO.      PW NO. SCALE: AS NOTED	JOB # PC C117069 CO # 912-32 VPI # CS104		

MADE	CHK'D	REV'D
NATURE	REVISIONS	DATE
MARK	DATE	MARK
VAULT SERIAL #	DATE	MARK
38810	3/8/20	3/8/20

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**RIGHT ANCHOR GRADING PLAN** 1  
SCALE: 1:20 15

**SHEET KEY NOTES:**

- ① CONTRACTOR SHALL COORDINATE WITH OWNER PRIOR TO ANY EARTHWORKS TO DETERMINE THE LOCATION OF BURIED UTILITIES IN AREA OF EXISTING UTILITY VAULT.
- ② EXISTING CULVERT TO CONVEY STORMWATER FROM THE SITE TO EXISTING DOWNSTREAM CHANNEL SYSTEM DISCHARGING TO THE SOUTH FORK TOLT RIVER BELOW THE DAM.
- ③ CULVERT INLET SUMP LINED WITH TYPE R RIPRAP PER SPECIFICATION 31 00 00. EXTEND ROCK LINING TO ELEVATION 1783.0 MIN.
- ④ REROUTE EXISTING 5' TRAPEZOIDAL DITCH TO CULVERT INLET SUMP AT 5.5% GRADE. CHANNEL REROUTING SHALL MAINTAIN A MINIMUM DITCH DEPTH OF 1.5' AND SHALL BE RESEDED PER THE SPECIFICATIONS FOLLOWING GRADING OPERATIONS.

**RIGHT ANCHOR ACCESS ROAD SITE COORDINATES**

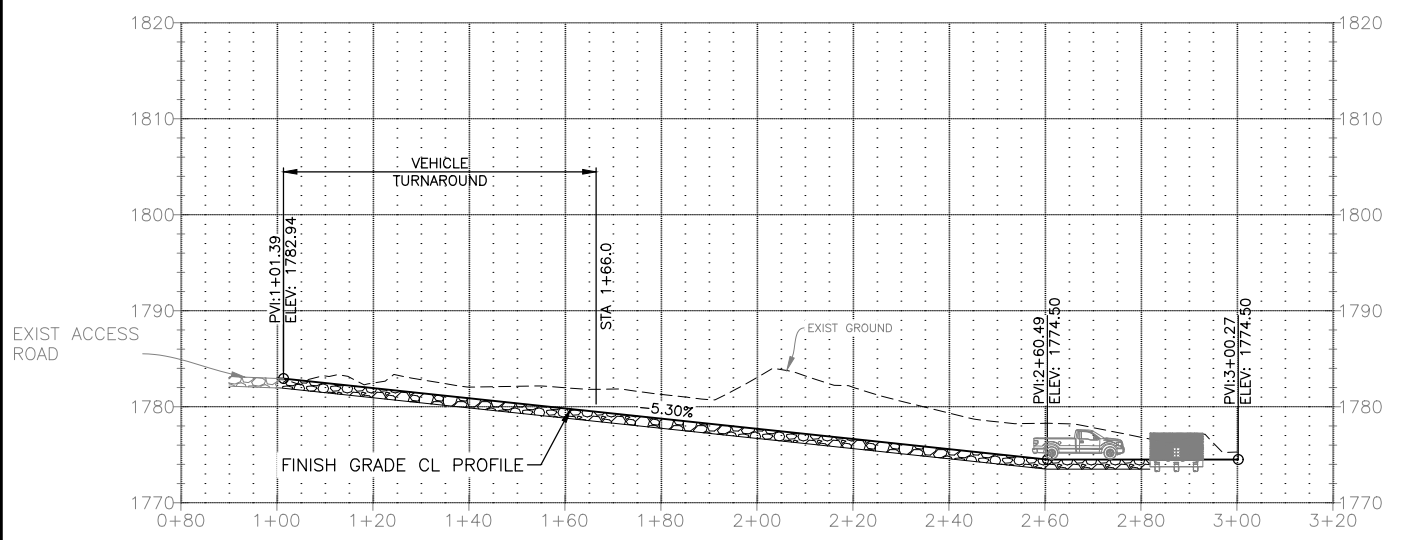
POINT NO	NORTHING	EASTING	DESCRIPTION
400	254645.56	1429555.46	START ALIGNMENT STA 1+00.0
401	254655.92	1429617.27	PC STA 1+62.7
402	254686.81	1429674.32	PT STA 2+28.8
403	254739.24	1429722.58	PC STA 3+00.0
404	254612.77	1429566.05	EDGE OF GRAVEL ROAD
405	254621.16	1429615.53	EDGE OF GRAVEL ROAD
406	254630.26	1429631.89	EDGE OF GRAVEL ROAD
407	254723.52	1429713.82	ANCHOR CORNER, SOUTH
408	254731.79	1429721.08	ANCHOR CORNER, EAST
409	254669.82	1429565.23	CULVERT SUMP CORNER
410	254666.67	1429561.34	CULVERT SUMP CORNER
411	254663.71	1429564.70	CULVERT INLET
412	254598.57	1429575.32	CULVERT OUTLET

**RIGHT ANCHOR ACCESS ROAD ALIGNMENT LINE TABLE**

LINE NO	LENGTH	DIRECTION
L40	62.68	N 80° 29' 11.05" E
L41	71.25	N 42° 37' 51.81" E

**RIGHT ANCHOR ACCESS ROAD ALIGNMENT CURVE TABLE**

POINT NO	LENGTH	RADIUS	TANGENT	DELTA	CHORD DIRECTION	CHORD LENGTH
C40	66.07	100	34.29	37°51'19.25"	N61°33'31.43"E	64.87



**RIGHT ANCHOR ACCESS ROAD GRADING PROFILE**  
SCALE: HORIZ 1:20  
VERT 1:10

**90% SUBMITTAL (NOT FOR CONSTRUCTION)**

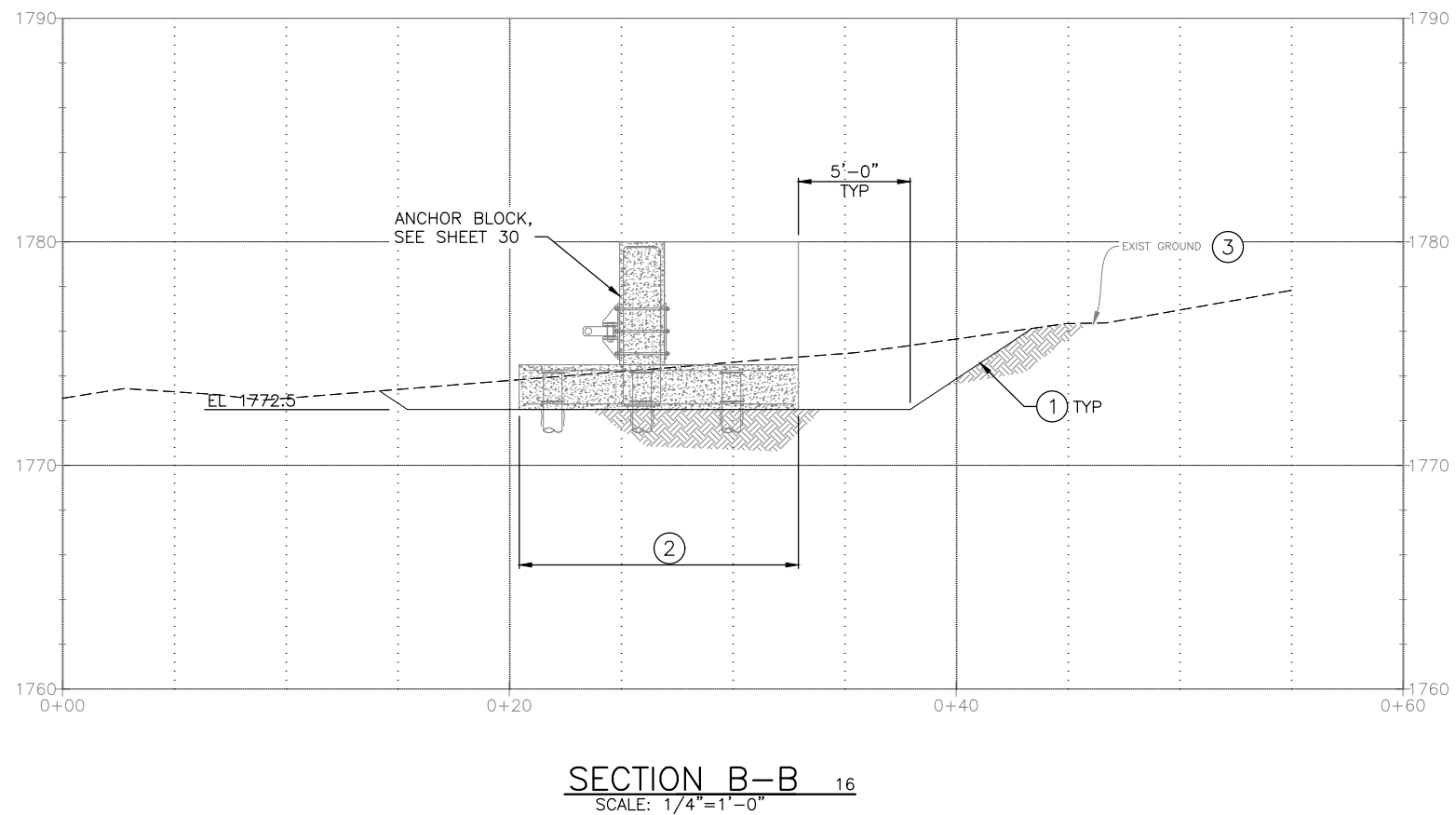
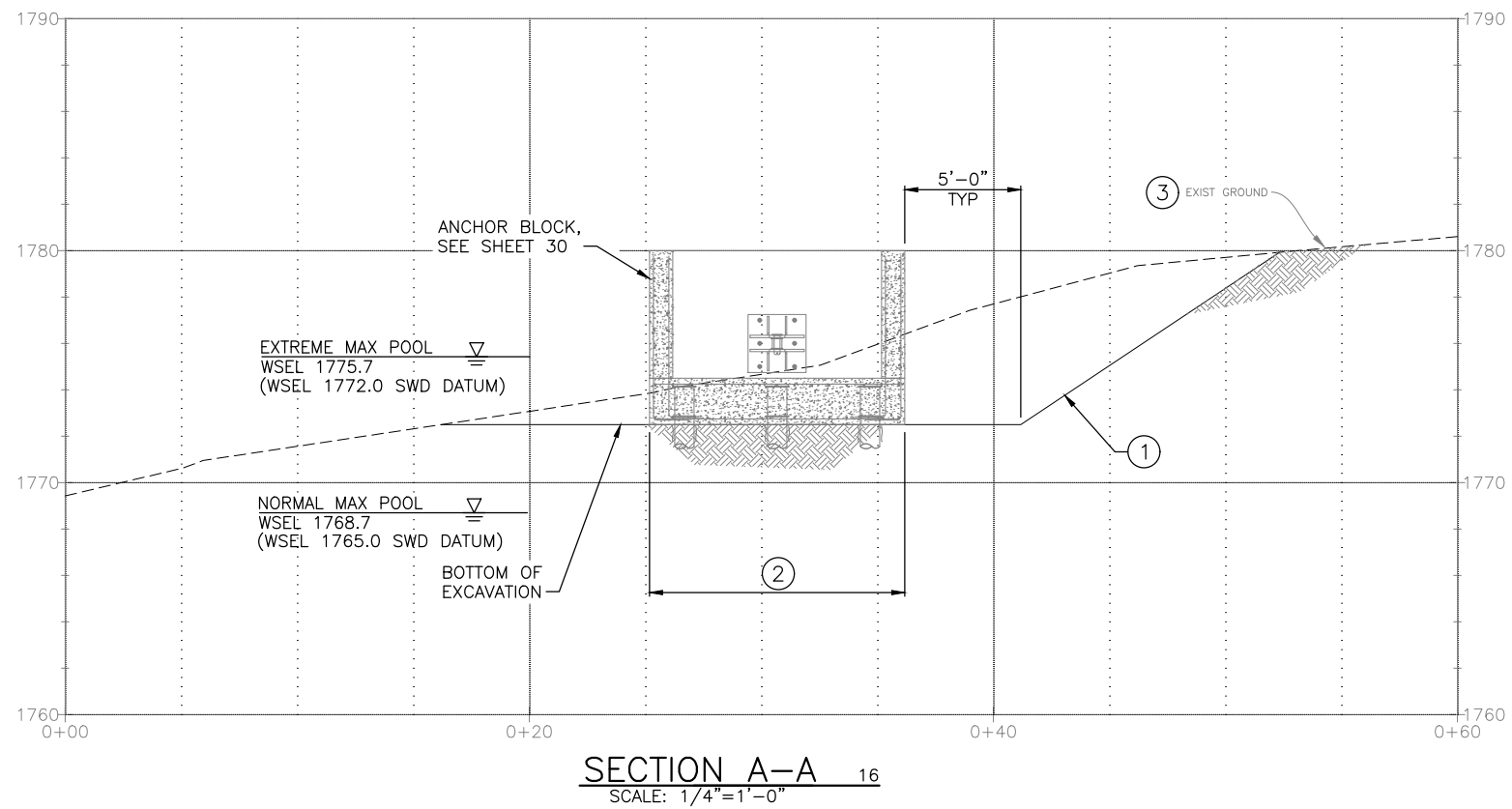
	APPROVED FOR ADVERTISING <b>LIZ ALZEER</b> DEPARTMENT OF FINANCE & ADMINISTRATIVE SERVICES SEATTLE, WASHINGTON	INITIALS AND DATE DESIGNED AL CHECKED JB DRAWN RW CHECKED AL	INITIALS AND DATE REVIEWED: DES. SDOT CONST. PROJ. MGR. RECEIVED REVISED AS BUILT			<b>SOUTH FORK TOLT RESERVOIR DEBRIS BOOM REPLACEMENT</b>	JOB # PC C117069 CO # 912-32 <b>CS105</b> SHEET 19 OF XX
	BY: CITY PURCHASING & CONTRACTING SERVICES DIRECTOR	ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE CITY OF SEATTLE STANDARD PLANS AND SPECIFICATIONS AND OTHER DOCUMENTS CALLED FOR IN SECTION 0-02.3 OF THE PROJECT MANUAL.		ORDINANCE NO. PW NO. SCALE: AS NOTED	<b>RIGHT ANCHOR GRADING PLAN AND PROFILE</b>		

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Vault Serial #	38810

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wood Jul-06--22 10:39am



**SHEET KEY NOTES:**

- ① CUT SLOPES SHALL BE SUBJECT TO ASSESSMENT OF FIELD CONDITIONS AND SHALL BE AT THE CONTRACTOR'S DISCRETION IN ACCORDANCE WITH WASHINGTON OSHA GUIDELINES. CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR MAINTAINING SAFE CONDITIONS NEAR CUT SLOPES ACCOUNTING FOR GROUNDWATER/ STORMWATER CONDITIONS, CONSTRUCTION SURCHARGES, AND OTHER FACTORS IMPACTING STABILITY.
- ② EXCAVATE ANCHOR BLOCK SUBGRADE WITH SMOOTH BUCKET. DO NOT DISTURB NATIVE MATERIAL BELOW BOTTOM OF ANCHOR BLOCK FOOTING.
- ③ REDIRECT ANY STORMWATER RUNOFF AWAY FROM THE EXCAVATION IN ACCORDANCE WITH THE CONTRACTOR'S SWPPP UNTIL EXCAVATION IS BACKFILLED.

**90% SUBMITTAL (NOT FOR CONSTRUCTION)**

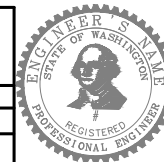


SDCI #####. SDOT #####
REVIEWED BY SPU/WATER ENGINEERING
..... 20.....
REVIEWED BY SPU/DRAINAGE
..... 20.....
APPROVED BY SDOT STREET IMPROVEMENT PERMITTING
..... 20.....

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DEPARTMENT OF FINANCE & ADMINISTRATIVE SERVICES  
SEATTLE, WASHINGTON ..... 20 .....

BY: \_\_\_\_\_  
CITY PURCHASING & CONTRACTING SERVICES DIRECTOR

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ORDINANCE NO. \_\_\_\_\_ PW NO. \_\_\_\_\_  
SCALE: AS NOTED

LEFT ANCHOR EXCAVATION SECTIONS

**SOUTH FORK TOLT RESERVOIR DEBRIS BOOM REPLACEMENT**

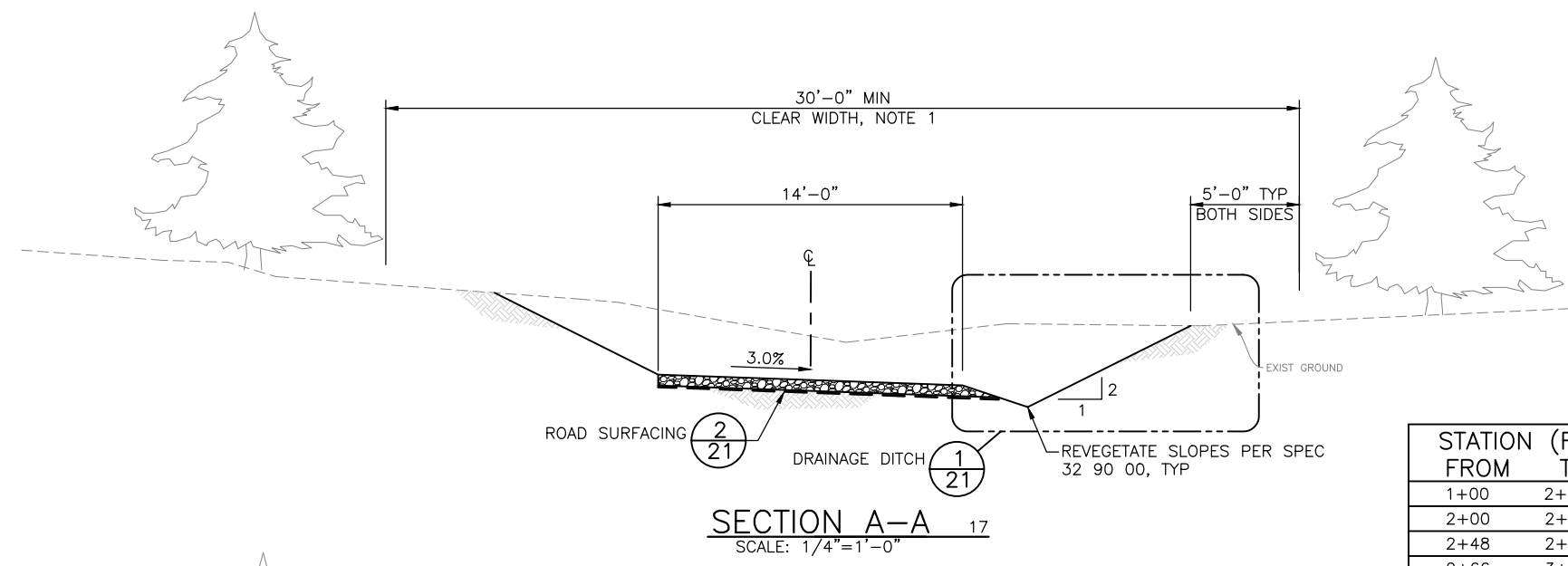
JOB	PC C117069
CO	912-32
VPI #	CS201
SHEET	20 OF XX

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NATURE			
REVISIONS			
MARK			
DATE			
Vault Serial #	38810		

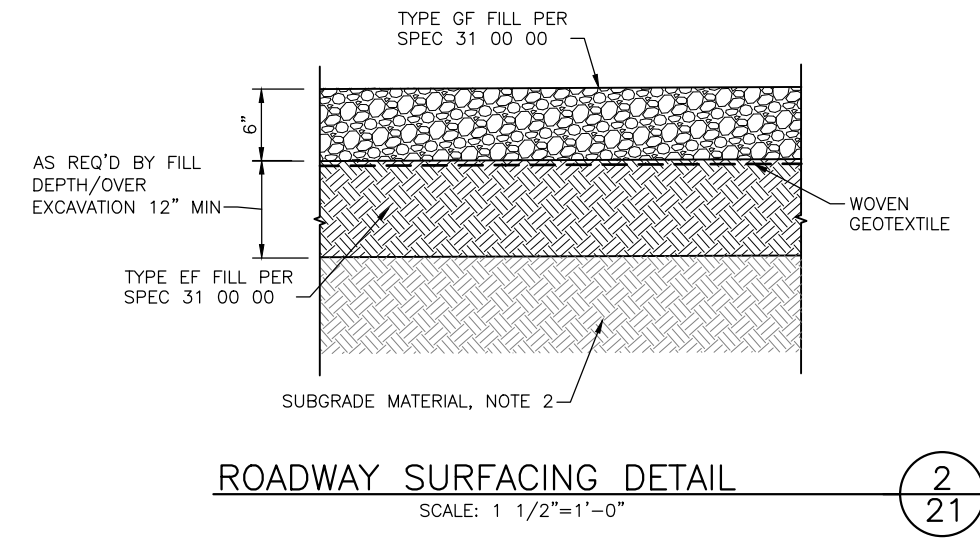
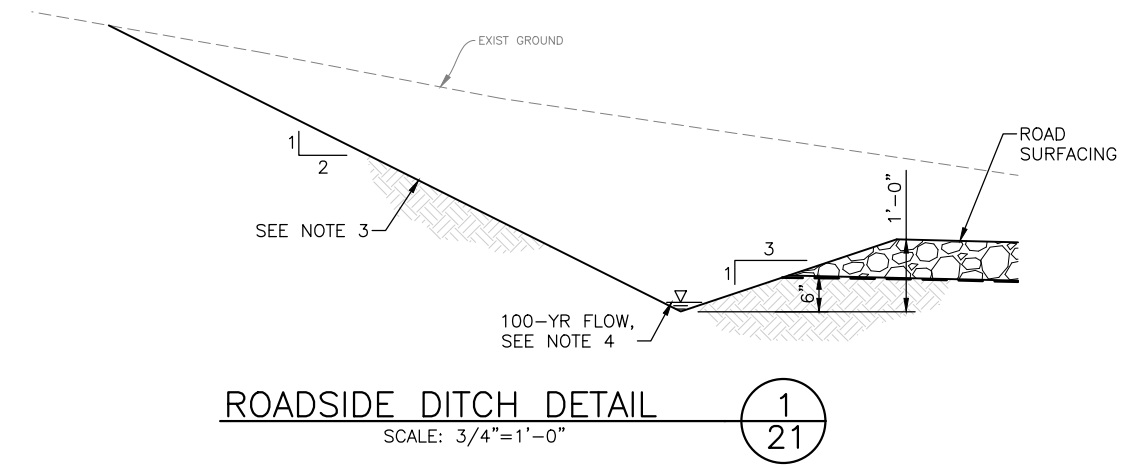
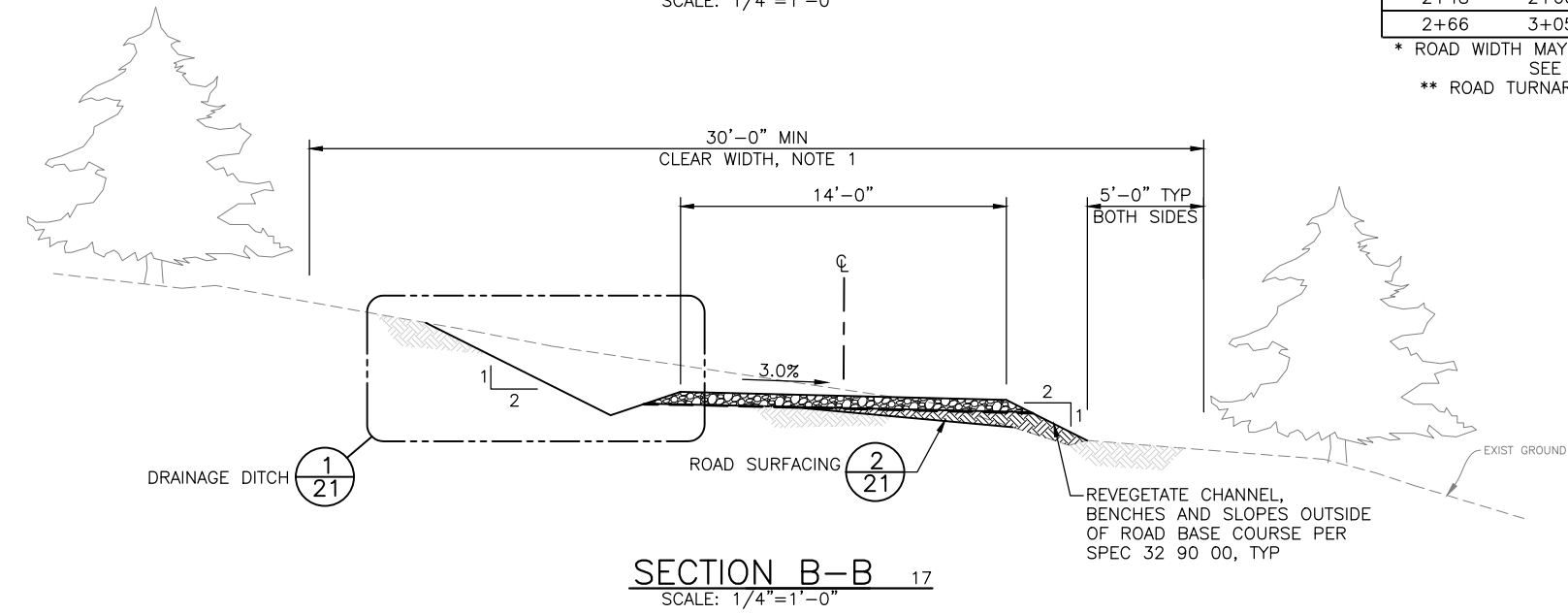
**SHEET NOTES:**

- ROADWAY TO MAINTAIN A CLEAR WIDTH IN WHICH ALL TREES, SHRUBS, STUMPS, AND VEGETATION SHALL BE CLEARED AND GRUBBED PER THE SPECIFICATIONS. CLEAR WIDTH SHALL BE A MINIMUM OF 30 FEET AND EXTEND 5 FEET BEYOND TOP OF CUT AND BOTTOM OF FILL SLOPES. NO OTHER TREE REMOVAL SHALL BE PERMITTED UNLESS PREVIOUSLY COORDINATED WITH THE ENGINEER AND OWNER.
- AFTER EXCAVATION AND PRIOR TO PLACEMENT OF BACKFILL, SCARIFY TOP 6 INCHES OF EXPOSED SURFACE, MOISTURE CONDITION, AND ROLL WITH HEAVY EQUIPMENT PER SPEC 31 00 00.
- REVEGETATE DITCH SIDE SLOPES OUTSIDE OF ROAD SURFACING MATERIAL. IF REVEGETATION OF DITCH ISN'T FEASIBLE ACCORDING TO THE CONTRACTOR'S METHODS, LINE DITCH TO 6" DEPTH WITH 3" QUARRY SPALLS.
- 100-YR MAXIMUM FLOW DEPTH IN LEFT ANCHOR DITCHES IS ESTIMATED TO BE APPROXIMATELY 1'-0" AND IS SUBJECT TO A MINIMUM DITCH DEPTH OF 1'-0" TO THE TOP OF ROAD. IF ADVERSE GROUNDWATER CONDITIONS ARE ENCOUNTERED IN DITCH EXCAVATION, CONTRACTOR SHALL NOTIFY THE ENGINEER.



STATION (FT) FROM	TO	CROSS-SECTION
1+00	2+00	A-A*
2+00	2+48	B-B
2+48	2+66	B-B**
2+66	3+05	B-B

\* ROAD WIDTH MAY VARY BASED ON TRANSITION, SEE GRADING PLAN  
 \*\* ROAD TURNAROUND, SEE GRADING PLAN



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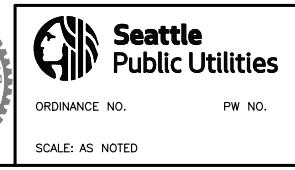
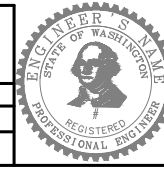
LEFT ANCHOR GRADING SECTIONS AND DETAILS 1



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INITIALS AND DATE	INITIALS AND DATE
DESIGNED AL	REVIEWED: DES. SDOT
CHECKED JB	CONST. PROJ. MGR.
DRAWN RW	RECEIVED
CHECKED AL	REVISED AS BUILT

ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE CITY OF SEATTLE STANDARD PLANS AND SPECIFICATIONS AND OTHER DOCUMENTS CALLED FOR IN SECTION 0-02.3 OF THE PROJECT MANUAL.



**SOUTH FORK TOLT RESERVOIR DEBRIS BOOM REPLACEMENT**

JOB	PC C117069
CO	912-32
VPI #	CS202
SHEET	21 OF XX

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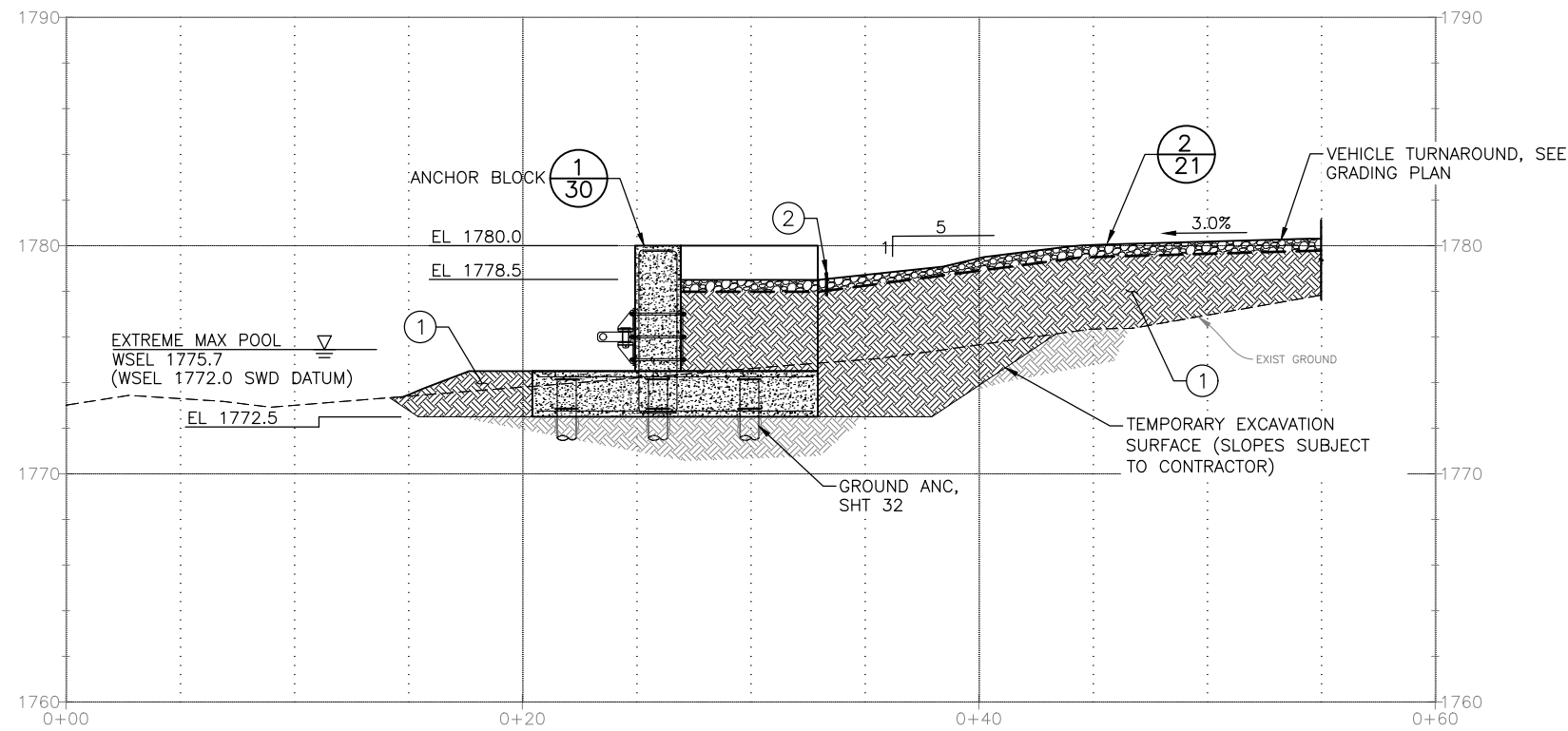
SDCI ##### SDOT #####

**SHEET NOTES:**

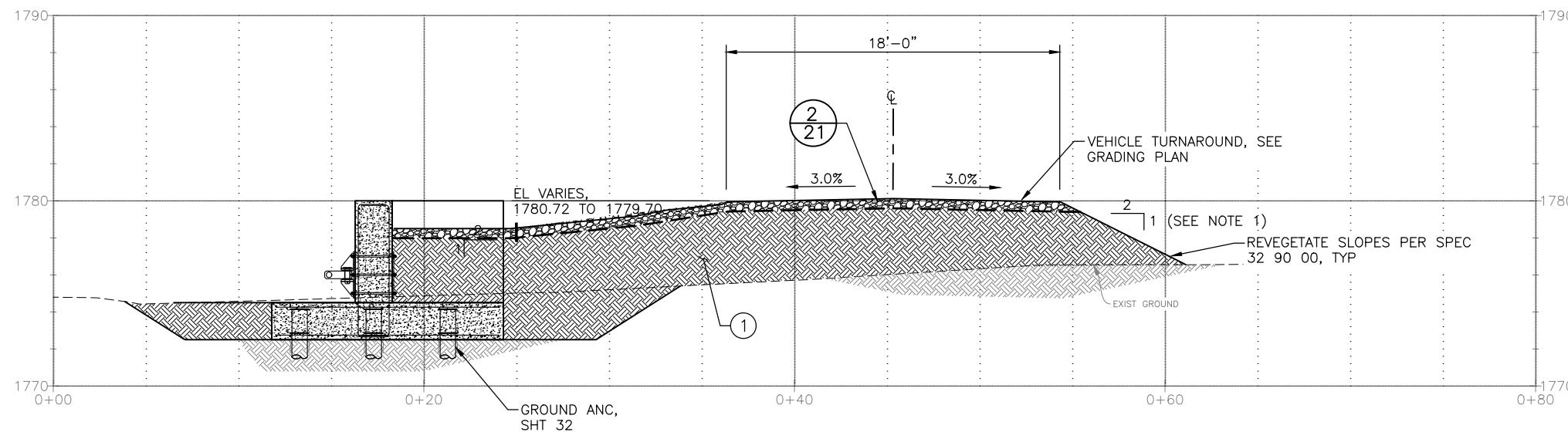
1. VEHICLE TURNAROUND FILL SLOPES GENERALLY SHALL BE 2H:1V. SLOPES MAY SHALLOW IN GRADING AROUND ANCHOR BLOCK. SEE GRADING PLAN.

**SHEET KEY NOTES:**

1. TYPE EF FILL PLACED AND COMPACTED ACCORDING TO SPEC 31 00 00 FOR ROAD FILL PRISM AND EXCAVATION BACKFILL.
2. INSTALL WATERBAR CONSISTING OF TREATED TIMBER EXTENDING 3 - 6" ABOVE GRADE, OR A STONE BARRIER OF 12" DIA. ROCK EXTENDING 4" ABOVE GRADE. REDIRECT WATER TO SHED AWAY FROM THE ANCHOR.



**SECTION A-A 17**  
SCALE: 1/4"=1'-0"



**SECTION B-B 17**  
SCALE: 1/4"=1'-0"

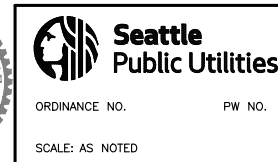
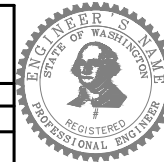
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LEFT ANCHOR GRADING SECTIONS AND DETAILS 2



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INITIALS AND DATE		INITIALS AND DATE	
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DRAWN RW	CHECKED AL	RECEIVED	REVISED AS BUILT
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**SOUTH FORK TOLT  
RESERVOIR DEBRIS BOOM  
REPLACEMENT**

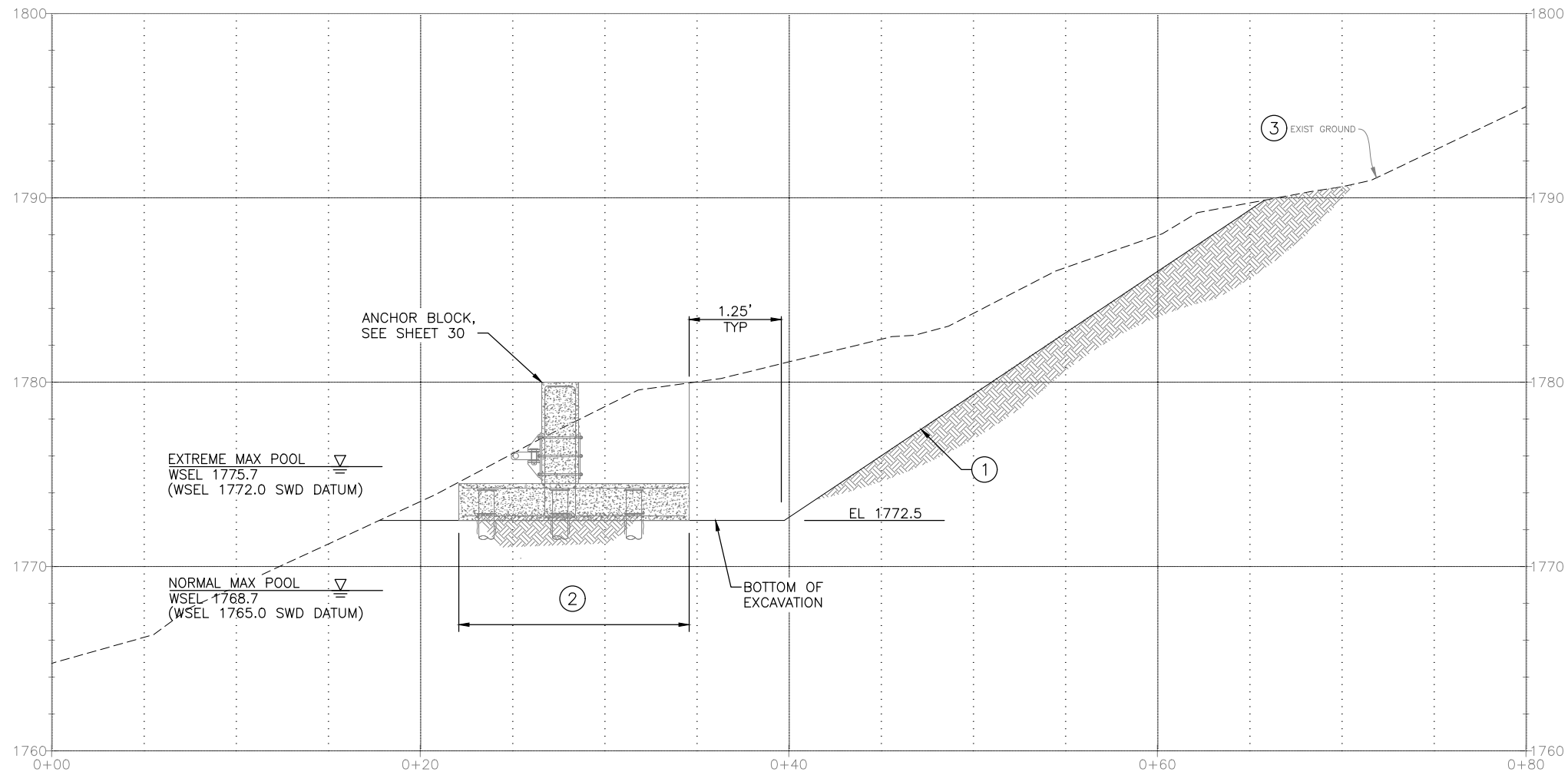
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CO	912-32
VPI #	CS203
SHEET	22 OF XX

MADE	CHK'D	REV'D
NATURE	REVISIONS	
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Vault Serial #		
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NATURE	REVISIONS	
DATE	MARK	
VAULT SERIAL #		
38810		



SECTION A-A 18  
SCALE: 1/4"=1'-0"

**SHEET KEY NOTES:**

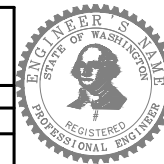
- ① CUT SLOPES SHALL BE SUBJECT TO ASSESSMENT OF FIELD CONDITIONS AND SHALL BE AT THE CONTRACTOR'S DISCRETION IN ACCORDANCE WITH WASHINGTON OSHA GUIDELINES. CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR MAINTAINING SAFE CONDITIONS NEAR CUT SLOPES ACCOUNTING FOR GROUNDWATER/STORMWATER CONDITIONS, CONSTRUCTION SURCHARGES, AND OTHER FACTORS IMPACTING STABILITY. CONTRACTOR MAY ALTERNATIVELY IMPLEMENT SHORING METHODS FOR TEMPORARY EXCAVATIONS, IN ACCORDANCE WITH WASHINGTON OSHA GUIDELINES.
- ② EXCAVATE ANCHOR BLOCK SUBGRADE WITH SMOOTH BUCKET. DO NOT DISTURB NATIVE MATERIAL BELOW BOTTOM OF ANCHOR BLOCK FOOTING.
- ③ REDIRECT ANY STORMWATER RUNOFF AWAY FROM THE EXCAVATION IN ACCORDANCE WITH THE CONTRACTOR'S SWPPP UNTIL EXCAVATION IS BACKFILLED.

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DRAWN RW	CHECKED AL	RECEIVED	REVISED AS BUILT
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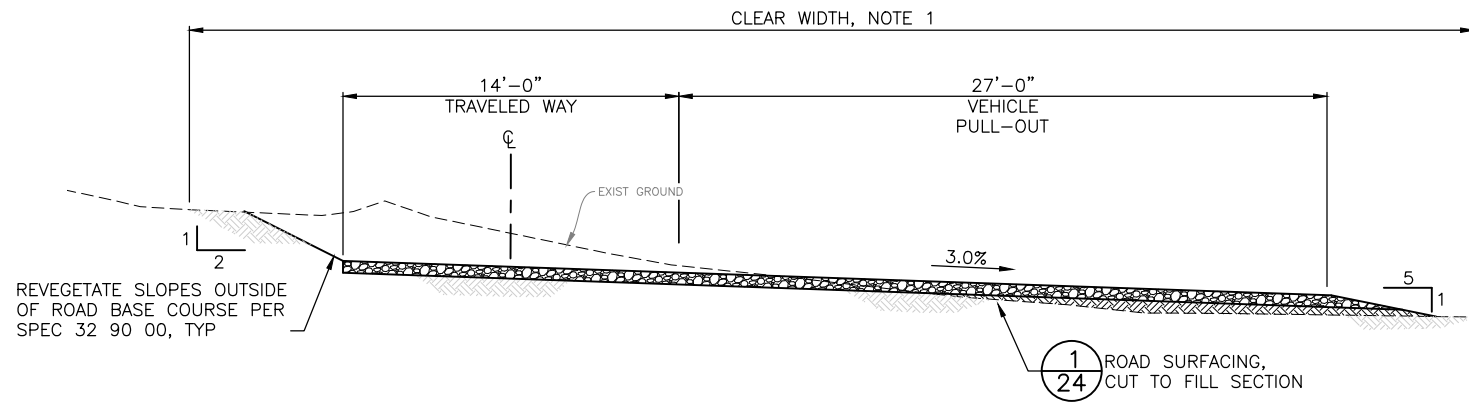
**Seattle Public Utilities**  
ORDINANCE NO. PW NO.  
SCALE: AS NOTED

RIGHT ANCHOR EXCAVATION SECTIONS  
**SOUTH FORK TOLT RESERVOIR DEBRIS BOOM REPLACEMENT**  
JOB # PC C117069  
VPI # 912-32  
SHEET 23 OF XX

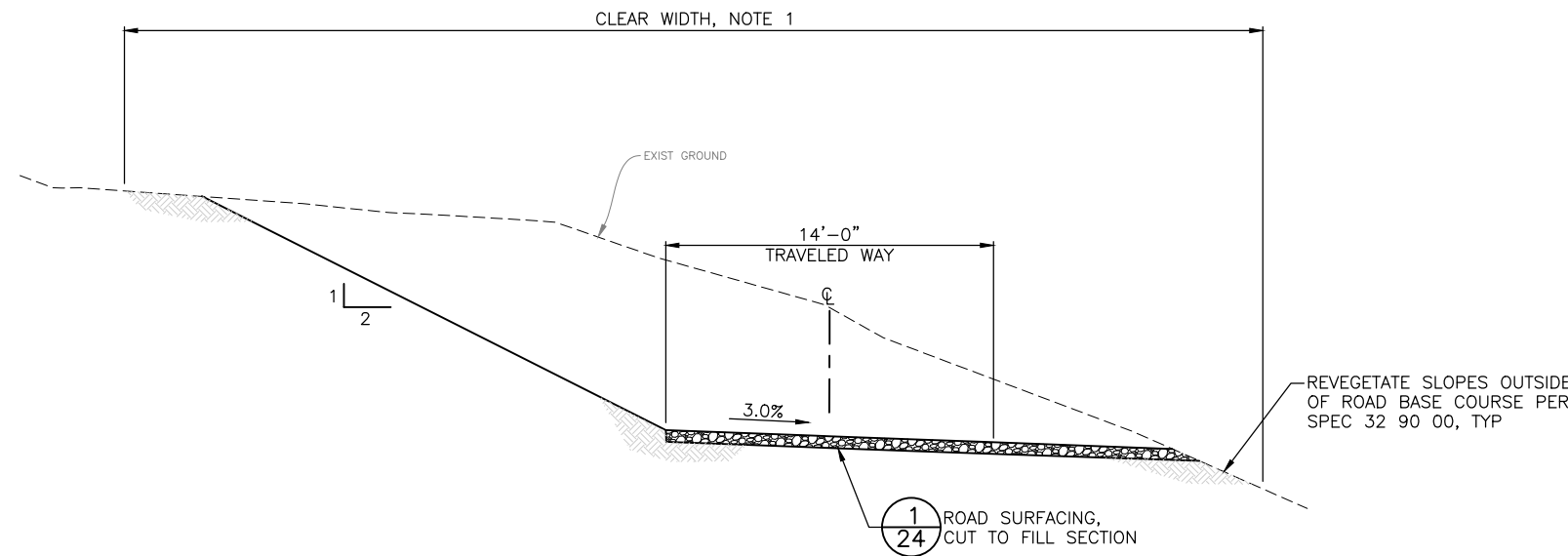


**SHEET NOTES:**

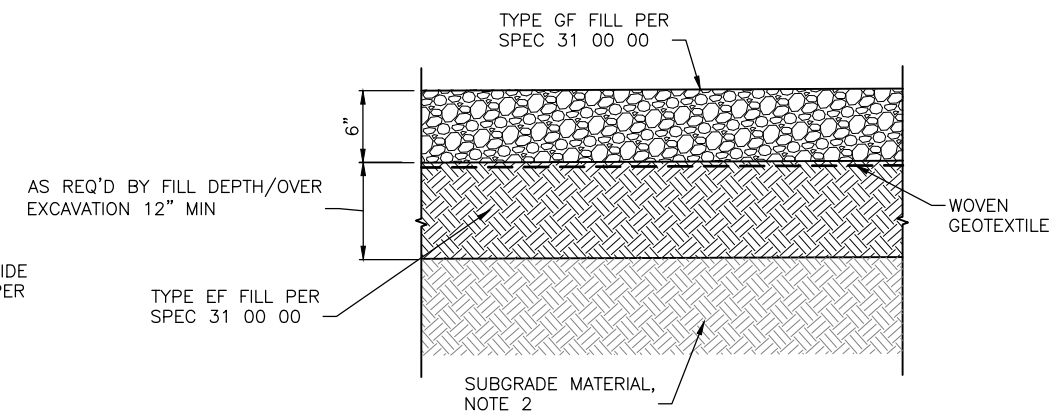
- ROADWAY TO MAINTAIN A CLEAR WIDTH IN WHICH ALL TREES, SHRUBS, STUMPS, AND VEGETATION SHALL BE CLEARED AND GRUBBED PER THE SPECIFICATIONS. CLEAR WIDTH SHALL BE A MINIMUM OF 30 FEET AND EXTEND 5 FEET BEYOND TOP OF CUT AND BOTTOM OF FILL SLOPES.
- AFTER EXCAVATION AND PRIOR TO PLACEMENT OF BACKFILL, SCARIFY TOP 6 INCHES OF EXPOSED SURFACE, MOISTURE CONDITION, AND ROLL WITH HEAVY EQUIPMENT PER SPEC 31 00 00.



**SECTION A-A** 19  
SCALE: 1/4"=1'-0"



**SECTION B-B** 19  
SCALE: 1/4"=1'-0"



**ROADWAY SURFACING DETAIL** 1/24  
SCALE: 1 1/2"=1'-0"

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NATURE	REVISIONS
DATE	MARK
Vault Serial #	38810

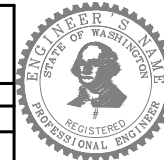
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RIGHT ANCHOR GRADING SECTIONS AND DETAILS 1



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DRAWN RW	RECEIVED
CHECKED AL	REVISED AS BUILT
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ORDINANCE NO. . . . . PW NO. . . . .  
SCALE: AS NOTED

**SOUTH FORK TOLT RESERVOIR DEBRIS BOOM REPLACEMENT**

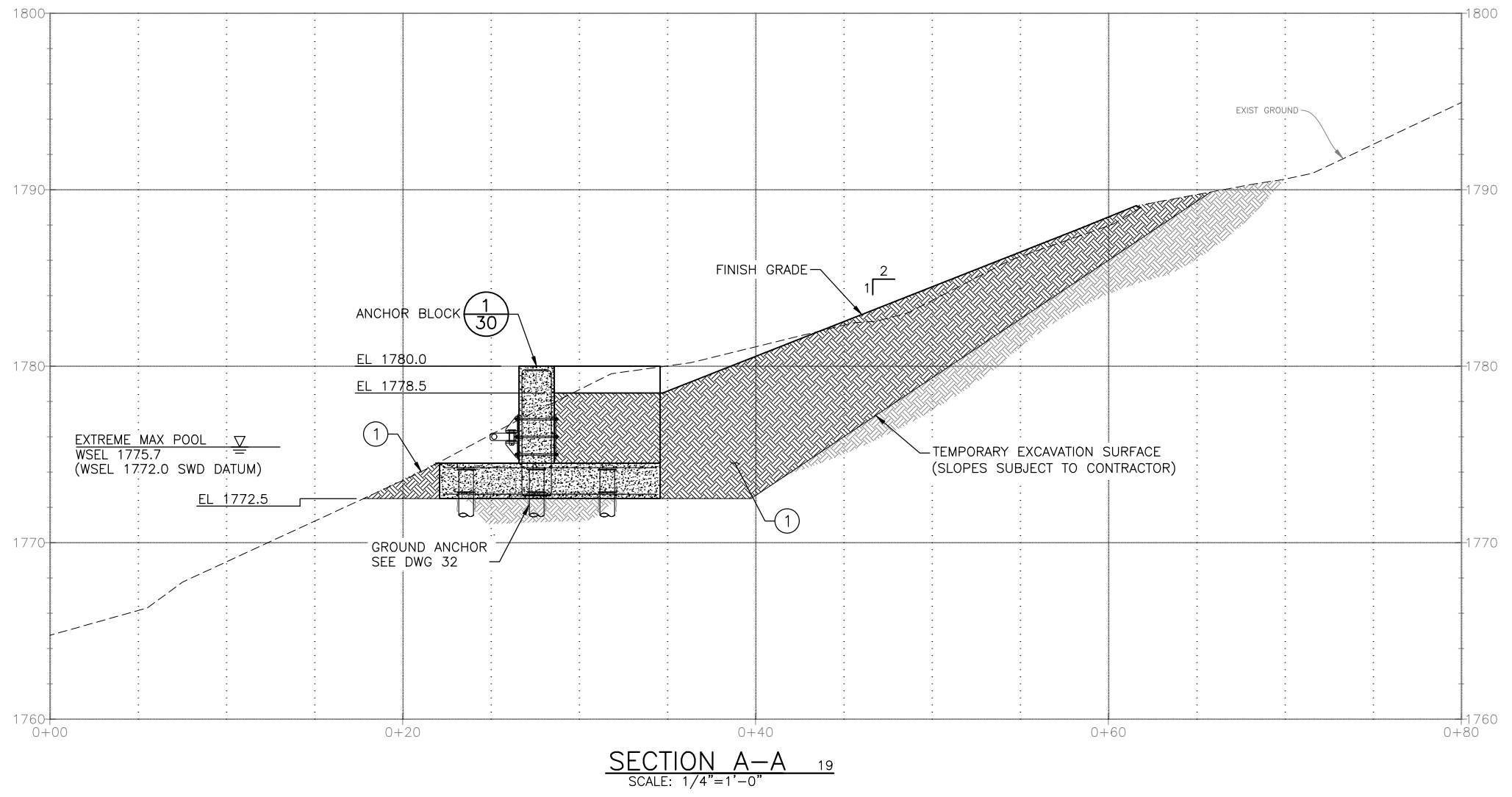
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CO	912-32
VPI #	CS205
SHEET	24 OF XX

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**SHEET KEY NOTES:**

① TYPE EF FILL PLACED AND COMPACTED ACCORDING TO SPEC 31 00 00.



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DATE	MARK
VAULT SERIAL #	38810

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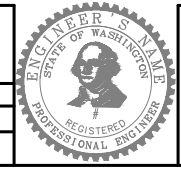
RIGHT ANCHOR GRADING SECTIONS AND DETAILS 2



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DRAWN RW	CHECKED AL	RECEIVED	REVISED AS BUILT

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**Seattle Public Utilities**

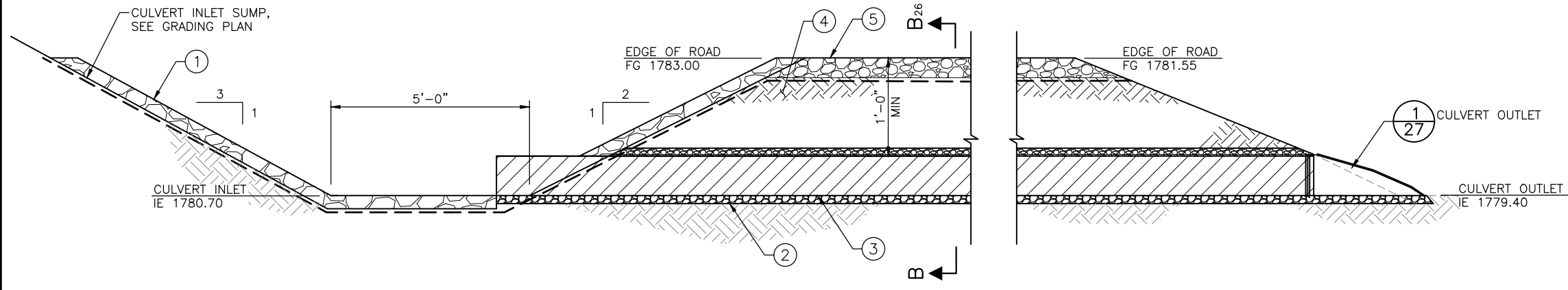
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SCALE: AS NOTED

**SOUTH FORK TOLT RESERVOIR DEBRIS BOOM REPLACEMENT**

JOB	PC C117069
CO	
VPI #	912-32
<b>CS206</b>	
SHEET 25 OF XX	

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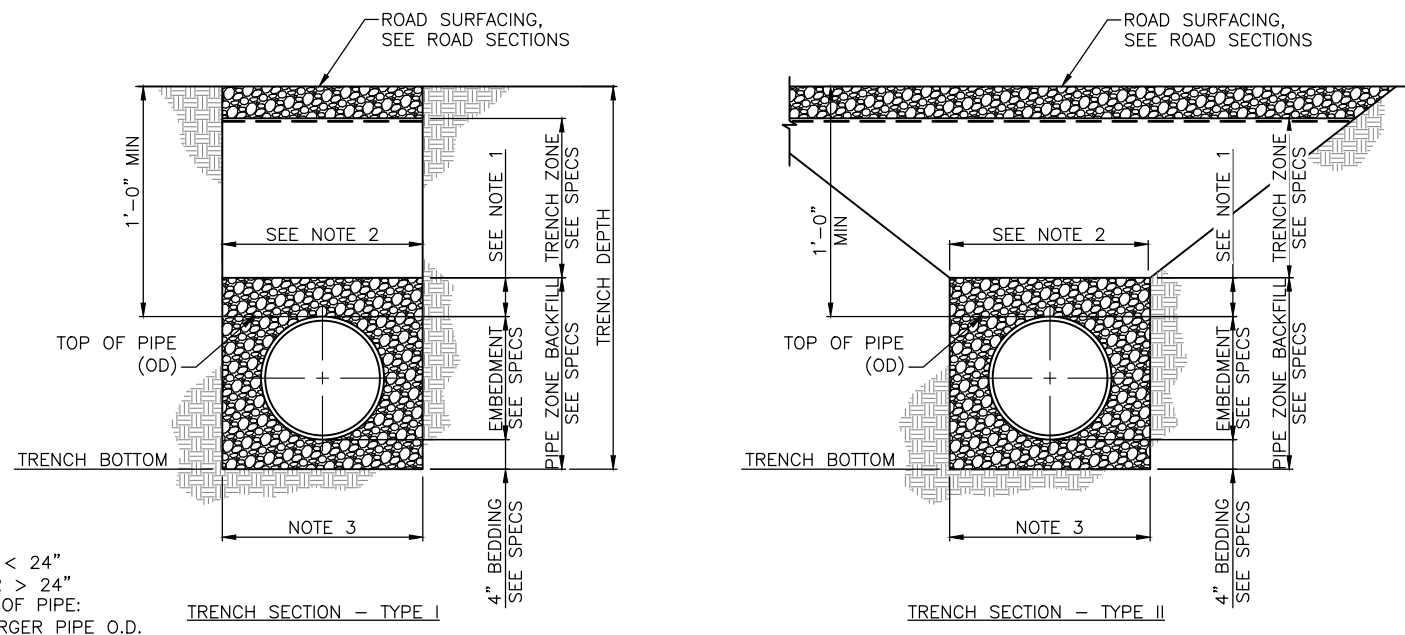
VAULT SERIAL #	DATE	MARK	NATURE	REVISIONS
306310				
				MADE CHK'D REV'D



**SECTION A-A** 19  
SCALE: NTS

- SHEET KEY NOTES:**
- 1 LINE BOTTOM OF CULVERT INLET SUMP WITH TYPE R RIPRAP PER SPECIFICATION 31 00 00 AND UNDERLAY WITH NON-WOVEN GEOTEXTILE. EXTEND LINING TO ELEVATION 1783.0.
  - 2 PIPE ZONE BEDDING BACKFILL PER SPECIFICATION 31 00 00.
  - 3 12" DIA CMP CULVERT PER SPECIFICATION 33 42 12
  - 4 TYPE EF EMBANKMENT FILL PER SPECIFICATION 31 00 00.
  - 5 TYPE GF GRANULAR FILL, 6" THICK PER SPECIFICATION 31 00 00.

- SHEET NOTES:**
- A. TYPICAL TRENCH SECTIONS (I AND II) ARE TO BE USED ONLY WHERE STABLE, COMPACT SOIL CONDITIONS EXIST. IF BOULDERS OR LARGE OBSTRUCTIONS ARE ENCOUNTERED, TRENCH SECTIONS MAY BE DEEPER OR WIDER THAN SHOWN. THE ENGINEER SHALL BE ADVISED SHOULD THIS OCCUR.
  - B. THE NEED FOR PROTECTIVE SYSTEMS AND EXCAVATION SLOPES SHALL BE DETERMINED CONSIDERING APPLICABLE LOCAL, STATE AND FEDERAL (OSHA) SAFETY STANDARDS AND REGULATIONS, AND GEOTECHNICAL CONSULTANTS' RECOMMENDATIONS.
  - C. PROTECTIVE SYSTEMS SHALL BE DESIGNED AND BUILT IN ACCORDANCE WITH THE APPLICABLE LOCAL, STATE AND FEDERAL (OSHA) SAFETY STANDARDS AND REGULATIONS.
  - D. SUPPORTING DOCUMENTATION SHALL BE SUBMITTED TO THE ENGINEER REGARDING PIPE DESIGN AND COMPLIANCE WITH APPLICABLE LOCAL, STATE AND FEDERAL (OSHA) SAFETY STANDARDS.
  - E. UNSUPPORTED VERTICAL AND/OR SLOPING TRENCH WALL SLOPES SHALL NOT BE STEEPER THAN ALLOWED BY APPLICABLE LOCAL, STATE AND FEDERAL (OSHA) SAFETY STANDARDS AND REGULATIONS, UNLESS SUPPORTING DOCUMENTATION IS SUBMITTED, ACCORDING TO AFOREMENTIONED SAFETY STANDARDS.
  - F. TRENCH SECTIONS OTHER THAN THE TYPICAL SECTIONS SHOWN MAY BE UTILIZED PROVIDED THEY COMPLY WITH APPLICABLE LOCAL, STATE AND FEDERAL (OSHA) SAFETY STANDARDS AND REGULATIONS. DOCUMENTATION SUPPORTING THIS COMPLIANCE AND PIPE DESIGN CALCULATIONS SHALL BE SUBMITTED TO THE ENGINEER.
  - G. IF OVER-EXCAVATION DUE TO POOR FOUNDATION MATERIAL IS ORDERED BY THE ENGINEER, THE BACKFILL MATERIAL SHALL BE ACCORDING TO THE EARTHWORK SECTION OF THE SPECIFICATIONS ARTICLE ENTITLED, "FILL AND BACKFILL MATERIAL REQUIREMENTS."
  - H. IF DURING CONSTRUCTION, THE WATER TABLE IS DISCOVERED TO BE ABOVE THE TRENCH BOTTOM, THE ENGINEER SHALL BE NOTIFIED, AND APPROPRIATE DEWATERING SHALL BE IMPLEMENTED TO LOWER THE WATER LEVEL BELOW THE TRENCH BOTTOM. THE BACKFILL MATERIAL SHALL BE ACCORDING TO THE EARTHWORK SECTIONS OF THE SPECIFICATIONS, OR AS ORDERED BY THE ENGINEER.



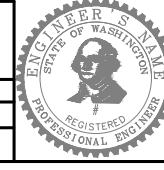
**SECTION B-B** 26  
SCALE: NTS

- NOTES:**
1. 6" MIN FOR PIPE DIAMETER < 24"  
12" MIN FOR PIPE DIAMETER > 24"
  2. MAX TRENCH WIDTH @ TOP OF PIPE:  
O.D. + 36" FOR 18" & LARGER PIPE O.D.  
O.D. + 24" FOR LESS THAN 18" PIPE O.D.
  3. MIN TRENCH BOTTOM WIDTH =  
O.D. + 24" FOR MECHANICAL COMPACTION

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BY: . . . . .  
CITY PURCHASING & CONTRACTING SERVICES DIRECTOR

INITIALS AND DATE	INITIALS AND DATE
DESIGNED AL	REVIEWED: DES. CONST.
CHECKED JB	SDOT PROJ. MGR.
DRAWN RW	RECEIVED
CHECKED AL	REVISED AS BUILT



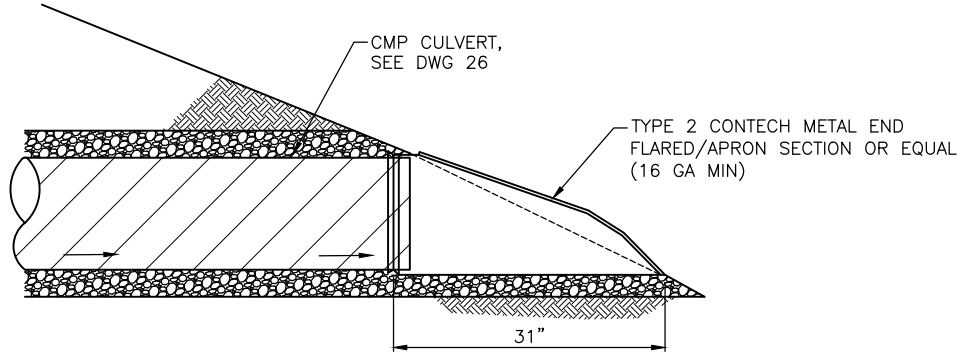
ORDINANCE NO. PW NO.  
SCALE: AS NOTED

**SOUTH FORK TOLT RESERVOIR DEBRIS BOOM REPLACEMENT**

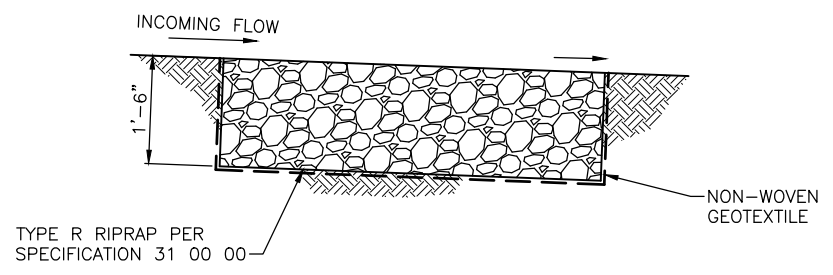
JOB #	PC C117069
CO	
VPI #	912-32
<b>CS207</b>	
SHEET 26 OF XX	

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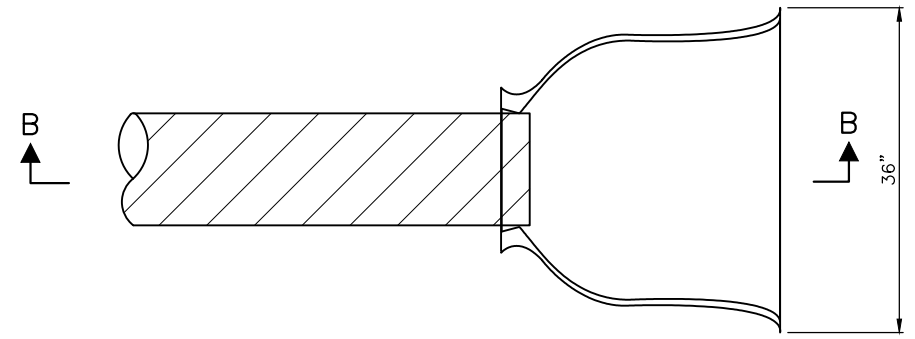
SDCI ##### SDOT #####



SECTION B-B



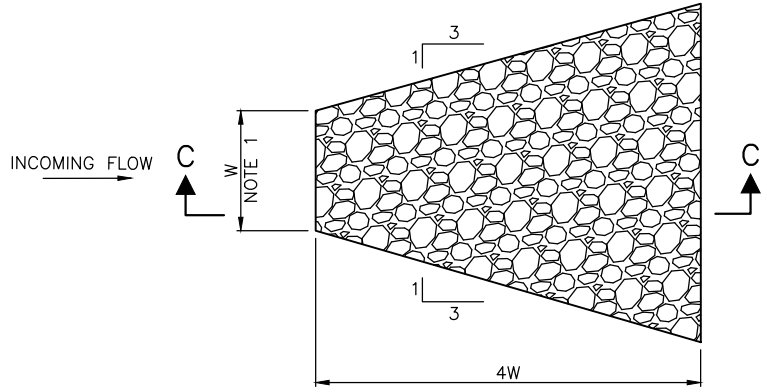
SECTION C-C



CULVERT OUTLET DETAIL

SCALE: NTS

1  
26



RIPRAP APRON DETAIL

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

2  
17

NOTES:

1. THE RIPRAP APRON UPSTREAM WIDTH, W, IS EQUAL TO THE TOP WIDTH OF THE INCOMING CHANNEL OR 3X THE DIAMETER OF THE INCOMING PIPE.

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NATURE	REVISIONS	
DATE	MARK	
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38810		

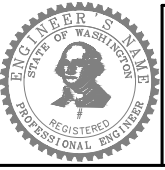
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STORMWATER MANAGEMENT SECTIONS AND DETAILS 2



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BY: . . . . .  
CITY PURCHASING & CONTRACTING SERVICES DIRECTOR

INITIALS AND DATE		INITIALS AND DATE	
DESIGNED AL		REVIEWED: DES. SDOT	CONST. PROJ. MGR.
CHECKED JB		RECEIVED	
DRAWN RW		REVISED AS BUILT	
CHECKED AL			



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**SOUTH FORK TOLT RESERVOIR DEBRIS BOOM REPLACEMENT**

JOB	PC C117069
CO	
VPI #	912-32
	<b>CS208</b>
SHEET	27 OF XX

C:\Vault20\SPU\South Tolt Debris Boom\CS208.dwg wood Jul-06-22 10:40am

SDCI #####.SDOT #####

# STANDARD STRUCTURAL NOTES:

## 1) GENERAL

- G1. SCOPE  
THE NOTES ON THIS SHEET ARE GENERAL AND APPLY IN CONJUNCTION WITH THE TECHNICAL SPECIFICATIONS TO ALL STRUCTURAL ASPECTS OF THE PROJECT, UNLESS OTHERWISE INDICATED ON THE DRAWINGS.
- G2. APPLICABLE CODES, STANDARDS AND REFERENCES  
THE PUBLICATIONS LISTED BELOW ARE THE GOVERNING CODES, STANDARDS AND REFERENCES.

AASHTO LRFD	AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS, SEVENTH EDITION, 2017
ACI 318	AMERICAN CONCRETE INSTITUTE – BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE
AISC SDG27	AMERICAN INSTITUTE OF STEEL CONSTRUCTION: STEEL DESIGN GUIDE 27 – STRUCTURAL STAINLESS STEEL
ASCE 7	AMERICAN SOCIETY OF CIVIL ENGINEERS: MINIMUM DESIGN LOADS FOR BUILDINGS AND OTHER STRUCTURES, THIRD PRINTING, 2010.
CEA	CANADIAN ELECTRICAL ASSOCIATION (CEA): ANALYSIS OF PROCEDURES USED IN THE DESIGN OF LOG & TRASH BOOMS TO PROTECT HYDRO ELECTRIC INTAKES, 1982.
USBR R-92-04	U.S. BUREAU OF RECLAMATION: INVESTIGATION OF DEBRIS AND SAFETY BOOM ALTERNATIVES FOR BUREAU OF RECLAMATION USE, FEBRUARY 1992.
USACE TR REMR-HY-3	U.S. ARMY CORPS OF ENGINEERS: TECHNICAL REPORT REMR-HY-3 ELEMENTS OF FLOATING-DEBRIS CONTROL SYSTEMS, SEPTEMBER 1988.
CEATI	CENTER FOR ENERGY ADVANCEMENT THROUGH TECHNOLOGICAL INNOVATION: REPORT NO. T052700-0209A: DEBRIS MANAGEMENT IN SPILLWAYS AND WATERWAYS DURING FLOODS, NOVEMBER 2010.

## G3. STRUCTURAL DESIGN CRITERIA

1. WIND:
- A. EXPOSURE CATEGORY: C
- B. WIND SPEED:
- I  $V_U = 109$  MPH (3000-YR MRI, BASIC PEAK GUST WIND SPEED @ 33 FT)
  - II  $V_{ASD,FM} = 50$  MPH (FASTEST-MILE WIND SPEED @ 1 FT, UNFACTORED)
2. DEBRIS BOOM LOAD CASES:
- A. WIND FRICTION DRAG:
- I FA1 = 16 LBS/FT ON DEBRIS MAT
  - II FA1 = 208 LBS/FT ON ICE FLOE (IN DOWNSTREAM DIRECTION)
  - III FA1 = 82 LBS/FT ON ICE FLOW (IN UPSTREAM DIRECTION)
- B. WATER FRICTION DRAG:
- I FW1 = 0.1 LBS/FT ON DEBRIS MAT
  - II FW1 = 0.9 LBS/FT ON ICE FLOE
- C. WIND FORM DRAG:
- I FA2 = 6.4 LBS/FT ON BOOM
- D. WATER FORM DRAG:
- I FW2 = 0.3 LBS/FT
3. DEBRIS BOOM GOVERNING LOAD COMBINATION:
- I F = 0.75 WIND + 0.75 ICE
  - II  $F_{DS} = 161$  LBS/FT (UNFACTORED, DOWNSTREAM DIRECTION)
  - III  $F_{US} = 66$  LBS/FT (UNFACTORED, UPSTREAM DIRECTION)
4. DEBRIS BOOM TENSION:
- A.  $T_{ADS} = 130$  KIPS (UNFACTORED TENSILE DEMAND UNDER  $F_{DS}$ )
- B.  $T_{A,US} = 53$  KIPS (UNFACTORED TENSILE DEMAND UNDER  $F_{US}$ )
5. DEBRIS BOOM BOAT GATE
- A. MAXIMUM ALLOWABLE IN-LINE TENSION LOAD:
- I GATE-OPEN CONDITION:
    1.  $T_{MAX} = 20$  KIPS
  - II GATE-CLOSED CONDITION:
    1.  $T_{MAX} = 130$  KIPS
1. SHORE ANCHORS
- A. LATERAL LOAD
- I  $T_{SA,DS} = 1.25 \times T_{ADS} = 160$  KIPS (UNFACTORED TENSILE LOAD)
  - II  $T_{SA,US} = 1.25 \times T_{A,US} = 65$  KIPS (UNFACTORED TENSILE LOAD)

## G4. CONSTRUCTION SEQUENCING

THE EXISTING DEBRIS BOOM SYSTEM SHALL REMAIN IN-PLACE AND FUNCTIONAL UNTIL INSTALLATION OF THE STAINLESS-STEEL DEBRIS BOOM ASSEMBLY.

## G5. CONSTRUCTION LOADING AND TEMPORARY SUPPORT

THE CONTRACTOR IS SOLELY RESPONSIBLE FOR DETERMINING WHETHER THE STRUCTURE AND PROJECT COMPONENTS, IN THEIR PARTIALLY OR FULLY COMPLETED STATE, ARE CAPABLE OF SUPPORTING TEMPORARY AND SHORT DURATION LOADS IMPOSED DURING CONSTRUCTION, AND FOR IMPLEMENTING TEMPORARY BRACING, SHORING, FORMWORK, AND OTHER MEANS TO SUPPORT SUCH LOADING AS REQUIRED BASED ON THEIR MEANS AND METHODS OF CONSTRUCTION.

## G6. STANDARD DETAILS

THE STANDARD DETAILS DEPICT TYPICAL DETAILING TO BE USED ON THIS PROJECT. STANDARD DETAILS MAY NOT NECESSARILY BE INDICATED ON THE DRAWINGS BUT STILL APPLY AS SHOWN AND AS DESCRIBED IN THE STANDARD DETAILS. WHERE STANDARD DETAILS ARE NOTED ON THE DRAWINGS, THE SPECIFIED STANDARD DETAIL SHALL BE USED. WHERE NO DETAIL IS INDICATED, IT WILL BE THE CONTRACTOR'S RESPONSIBILITY TO SELECT AND FOLLOW THE APPROPRIATE STANDARD DETAIL FROM THOSE PROVIDED. IF CONDITIONS ARE NOT EXPLICITLY SHOWN ON THE DRAWINGS, THEY WILL MATCH THE INTENT OF THE STANDARD DETAILS.

## DEBRIS BOOM AND BOAT GATE ASSEMBLIES

### DB1. GENERAL

THE DEBRIS BOOM ASSEMBLY COMPONENTS AND FABRICATION WILL COMPLY WITH SECTION 35 00 01 [STAINLESS STEEL DEBRIS BOOM] OF THE TECHNICAL SPECIFICATIONS.

### DB2. MATERIALS

ITEM	STANDARD
STAINLESS STEEL	
PLATE, SHEET, STRIP	ASTM A240, TYPE 316L
COUPLERS	ASTM A351, TYPE 316L CASTING
COUPLER PINS	ASTM A351, TYPE 316L CASTING, OR ASTM A320, CLASS 1, TYPE B8M, OR ASTM A193, CLASS 2B, TYPE B8M2
PNTOONS	BUILT-UP SECTIONS, ASTM A240, TYPE 316L
BAR AND SHAPES	ASTM A276, TYPE 316L, OR ASTM A1069, TYPE 316L
STAINLESS STEEL FASTENERS	
BOLTS, HEX CAP SCREWS, AND STUDS	ASTM F593, TYPE 316
NUTS	ASTM F594, TYPE 316
WASHERS	ASTM A240, TYPE 316
ANCHOR BOLTS	ASTM A240, TYPE 316
OTHER	
FLEXIBLE CLOSURE STRIPS AND DEBRIS CURTAIN PANELS	CHLOROSULFONATED POLYETHYLENE (CSPE), 60-MIL, 5-PLY, POTABLE GRADE FABRIC-REINFORCED GEOMEMBRANE

### DB3. STAINLESS-STEEL FABRICATION

STAINLESS STEEL FABRICATION WILL COMPLY WITH SECTION 05 50 14 [STRUCTURAL STAINLESS STEEL FABRICATIONS] OF THE TECHNICAL SPECIFICATIONS.

## MICROPILES

### M1. GENERAL

THE MICROPILE FOUNDATION DESIGN ASSUMES INSTALLATION IN DENSE GLACIAL DEPOSITS FOR THE ENTIRE DEPTH OF THE MICROPILES AND FIXED-HEAD CONDITIONS AT THE ANCHOR BLOCK.

### DB2. MATERIALS

ITEM	STANDARD AND/OR GRADE
CASING	
PIPE	ASTM A53, GRADE B (FY = 35 KSI)
PLATE	ASTM A36 (FY = 36 KSI)
OTHER	
REINFORCING	HIGH-STRENGTH ALL-THREAD BAR (FY = 150 KSI)
GROUT	4,000 PSI @ 28-DAYS

### DB3. DESIGN CRITERIA

1. GROUT-TO-GROUND BOND STRENGTH: 16 PSI (ULTIMATE)
2. BOND-LENGTH FACTOR OF SAFETY: 2
3. SOIL PROPERTIES:
  - a. UNIT WEIGHT = 120 PCF
  - b. FRICTION ANGLE = 33 DEGREES

## CONCRETE

### C1. GENERAL

CONCRETE CONSTRUCTION, MATERIALS, GROUT, JOINTING MATERIALS, RELATED PRODUCTS AND ACCESSORIES WILL CONFORM TO SECTIONS 03 10 00 [CONCRETE FORMING AND ACCESSORIES] AND 03 30 00 [CAST-IN-PLACE CONCRETE] OF THE TECHNICAL SPECIFICATIONS.

CONCRETE FORMWORK, FALSEWORK AND ACCESSORIES WILL COMPLY WITH SECTION 03 10 00 [CONCRETE FORMING AND ACCESSORIES] OF THE TECHNICAL SPECIFICATIONS.

### C2. CONCRETE PROPERTIES

CONCRETE WILL BE UNCOATED UNLESS OTHERWISE INDICATED ON THE DRAWINGS. CONCRETE MATERIAL PROPERTIES AND FINISHES WILL COMPLY WITH THE FOLLOWING:

1. STRUCTURAL CONCRETE
  - a. MINIMUM 28-DAY COMPRESSIVE STRENGTH: 4,500 PSI
  - b. MAX AGGREGATE SIZE: 1 INCH
  - c. MAX W/C RATIO (BY WEIGHT): 0.42
  - d. TOTAL AIR CONTENT: 4.5 TO 7.5 %

### C3. JOINTS

PROVIDE JOINTS AT LOCATIONS SPECIFICALLY SHOWN ON THE STRUCTURAL DRAWINGS. ADDITIONAL CONSTRUCTION JOINTS WILL NOT BE PERMITTED EXCEPT WHEN SUBMITTED TO AND APPROVED BY THE ENGINEER.

THE HARDENED SURFACES OF ALL CONSTRUCTION JOINTS WILL BE INTENTIONALLY ROUGHENED TO A MINIMUM AMPLITUDE OF ONE-QUARTER INCH.

### C4. CHAMFERS AND FILLETS

PROVIDE 3/4-INCH CHAMFERS AT OUTSIDE CORNERS OF ALL SHORE ANCHOR WALLS. CHAMFERS MAY NOT ALL BE SHOWN ON THE DRAWINGS.

## REINFORCING STEEL

### R1. GENERAL

CONCRETE REINFORCING STEEL AND PLACEMENT TOLERANCES WILL COMPLY WITH SECTION 03 10 00 [CONCRETE REINFORCING STEEL] OF THE TECHNICAL SPECIFICATIONS.

### R2. CONCRETE PROTECTION

CONCRETE COVER FOR REINFORCING STEEL WILL BE AS FOLLOWS, UNLESS OTHERWISE SHOWN ON THE DRAWINGS:

- |                              |          |
|------------------------------|----------|
| CONCRETE CAST AGAINST EARTH: | 3 INCHES |
| OTHER:                       | 2 INCHES |

### R3. SPACING AND PLACEMENT

THE MINIMUM CLEAR DISTANCE WILL BE AS FOLLOWS:

- |  |            |
|--|------------|
| A. BETWEEN REINFORCEMENT AND EMBEDDED MATERIALS: | 1.5 INCHES |
|--|------------|

THE CLEAR DISTANCE BETWEEN PARALLEL REINFORCEMENT WILL NOT BE LESS THAN 1.4 TIMES THE BAR DIAMETER, 1.4 TIMES THE NOMINAL AGGREGATE SIZE, OR 1 INCH.


THE FIRST AND LAST BARS IN SLABS AND WALLS, STIRRUPS IN BEAMS, AND TIES IN COLUMNS WILL BE PLACED NO MORE THAN ONE-HALF OF THE SPECIFIED SPACING OF ADJACENT BARS FROM THE ENDS OF THE MEMBER UNLESS OTHERWISE SHOWN ON THE DRAWINGS.

REINFORCING STEEL MAY BE DISPLACED TO CLEAR EMBEDDED MATERIALS AND SMALL OPENINGS PROVIDED THE FINAL BAR SPACING SATISFIES THE MINIMUM CLEAR DISTANCE REQUIREMENTS NOTED ABOVE AND DOES NOT EXCEED 1.5 TIMES THE SPACING SPECIFIED ON THE DRAWINGS. REFER TO THE STANDARD DETAILS FOR ADDITIONAL REINFORCEMENT REQUIREMENTS WHERE THESE CONDITIONS CANNOT BE SATISFIED.

### R4. DEVELOPMENT LENGTH AND SPLICES

MINIMUM TENSION DEVELOPMENT AND LAP SPLICE LENGTHS FOR REINFORCING STEEL ARE SHOWN IN THE STANDARD DETAILS.

SPLICES, IF NECESSARY, WILL BE LOCATED AS FOLLOWS:

- A. BOTTOM REINFORCING IN SLABS: ONE-FIFTH AND FOUR-FIFTHS POINTS OF SPAN.
- B. TOP REINFORCING IN SLABS: MIDDLE POINT OF SPAN.
- C. THE SYMBOL  INDICATES THE LOCATION OF A CONTACT LAP SPLICE IN THE REINFORCING STEEL. THE SYMBOL DOES NOT IMPLY THAT THE REINFORCING WILL BE BENT, NOR DOES IT INDICATE THE PLANE IN WHICH THE LAP SPLICE OCCURS.

### R6. DIMENSIONS

DIMENSIONS TO REINFORCEMENT ON THE PLANS ARE TO CENTERLINES OF BARS, EXCEPT WHERE COVER OR CLEARANCE BETWEEN BARS IS SHOWN.

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NATURE	REVISIONS	
MARK	DATE	
VAULT SERIAL #	38810	

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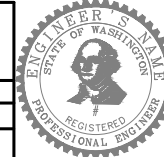


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DRAWN RW	CHECKED GC	RECEIVED	
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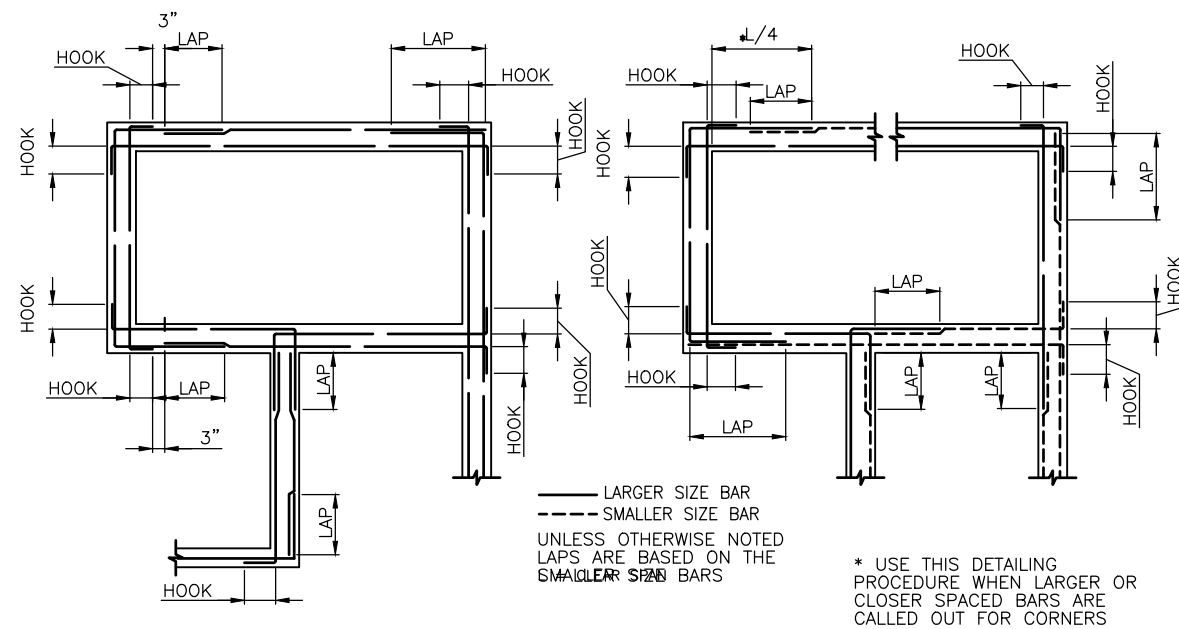
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GENERAL STRUCTURAL NOTES

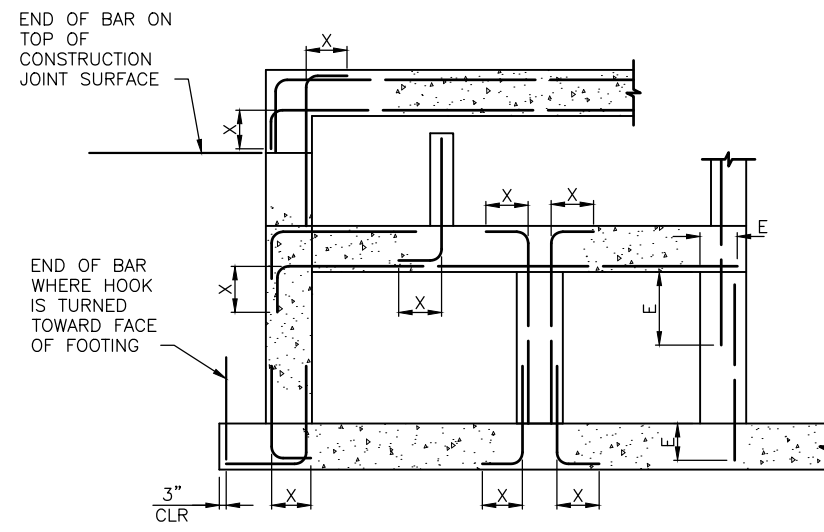
**SOUTH FORK TOLT RESERVOIR DEBRIS BOOM REPLACEMENT**

PC	C117069
CO	
VPI #	912-32
<b>S-001</b>	
SHEET	28 OF XX

NO.	DATE	BY	REVISIONS
38810			MADE CHG'D REVD



HORIZONTAL REINFORCEMENT AT WALL INTERSECTIONS 1/29  
 SCALE: NTS

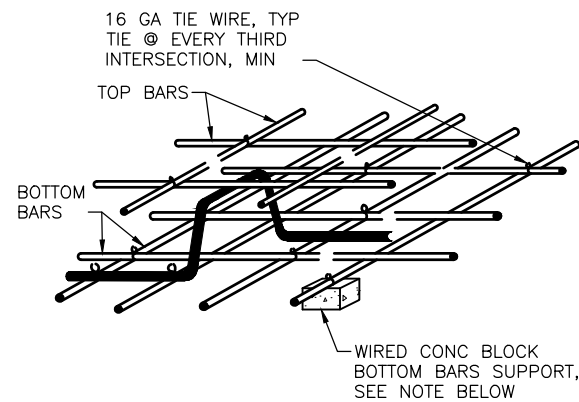


BAR SIZE	LENGTH ( * )		
	HOOK X	LAP	EMBEDMENT E
#3	6"	16" (21")	12" (16")
#4	8"	16" (21")	12" (16")
#5	10"	20" (26")	15" (20")
#6	12"	28" (37")	22" (28")
#7	14"	48" (62")	37" (48")
#8	16"	62" (81")	48" (62")
#9	19"	79" (102")	61" (79")
#10	22"	100" (130")	77" (100")
#11	24"	123" (160")	95" (123")

\* USE LENGTH IN PARENTHESIS FOR WALL HORIZONTAL REBARS AND SLAB BARS WITH 12" OR MORE OF FRESH CONCRETE UNDERNEATH

- SHEET NOTES:**
- USE LAP LENGTHS AS DETERMINED FROM THESE TABLES UNLESS SHOWN OTHERWISE.
  - THE TABLES SHOWN ARE FOR  $f'_c=4000\text{psi}$ ,  $f_y=60,000\text{psi}$ , 1.5" MIN CONCRETE COVER AND 3" MIN BAR SPACING.
  - MULTIPLY THE LAP AND E SHOWN IN THESE TABLES BY 1.5 FOR EPOXY COATED REINFORCING.
  - WHEN BARS OF DIFFERENT SIZES ARE LAP SPLICED, LAP LENGTH SHALL BE THE LARGER OF:  
 EMBEDMENT LENGTH OF LARGER BAR LAP OR LENGTH OF SMALLER BAR.
  - UNLESS NOTED OTHERWISE USE REBAR COUPLERS FOR SPLICES OF #11 AND LARGER BARS.
  - ALL DOWEL BARS SHALL EXTEND AN EMBEDMENT LENGTH E INTO ANOTHER MEMBER OR ACROSS A CONSTRUCTION JOINT UNLESS SHOWN TO SPLICE WITH OTHER BARS OR TO EXTEND TO THE FAR FACE OF THE MEMBER AND END WITH A STANDARD HOOK.

STANDARD 90° BAR HOOKS, EMBEDMENT LENGTHS AND LAP LENGTHS 2/29  
 SCALE: NTS



**NOTE:**

- METAL BAR SUPPORTS, IF USED IN SLABS NOT ON GROUND, SHALL NOT MAKE CONTACT WITH FORMS.

REINFORCEMENT SUPPORT 3/29  
 SCALE: NTS

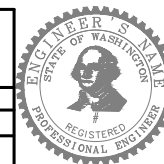
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CHECKED GC	REVISED AS BUILT

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STANDARD STRUCTURAL DETAILS 1

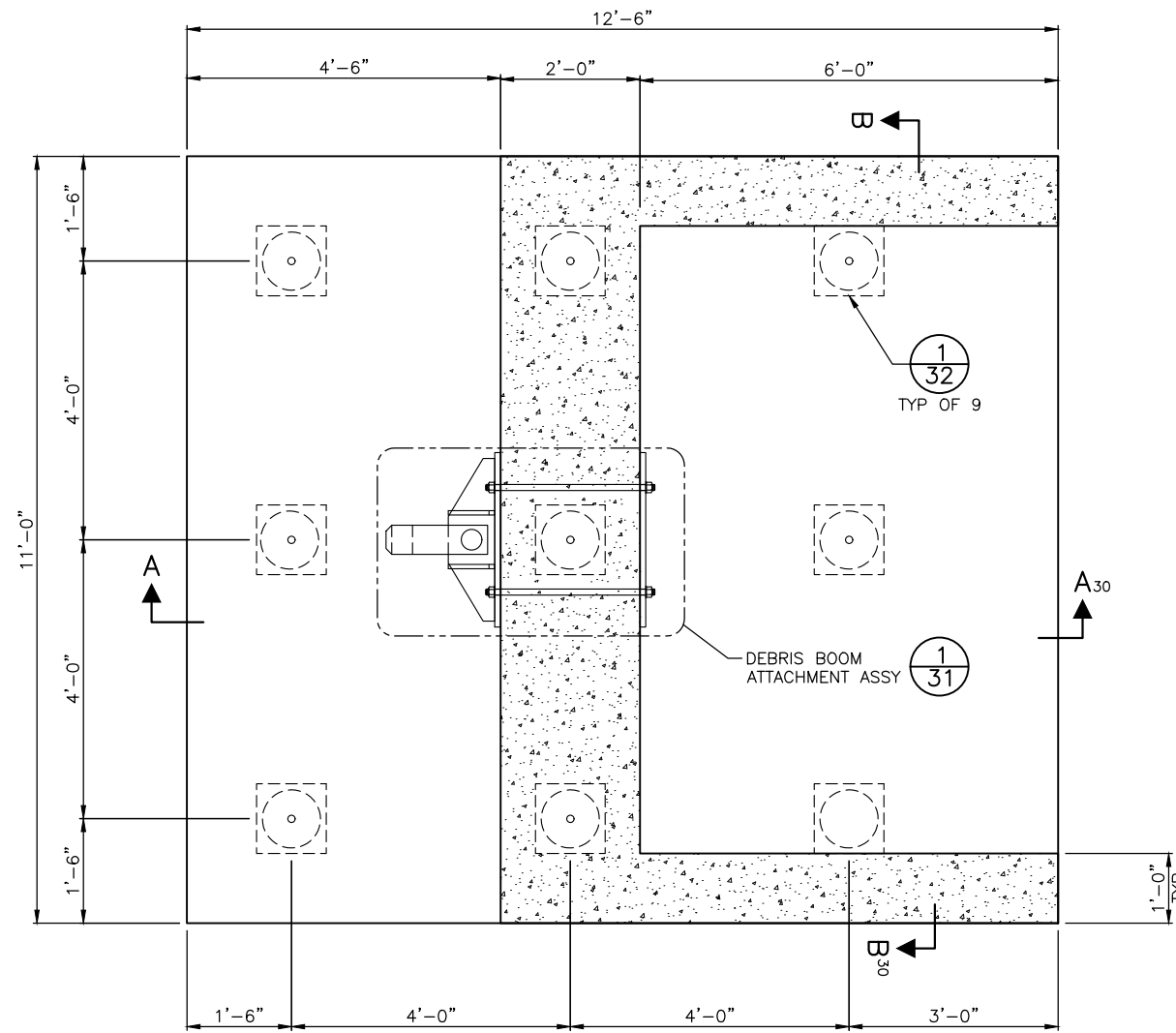
**SOUTH FORK TOLT RESERVOIR DEBRIS BOOM REPLACEMENT**

JOB # PC C117069  
 CO  
 VPI # 912-32  
**S-002**  
 SHEET 29 OF XX

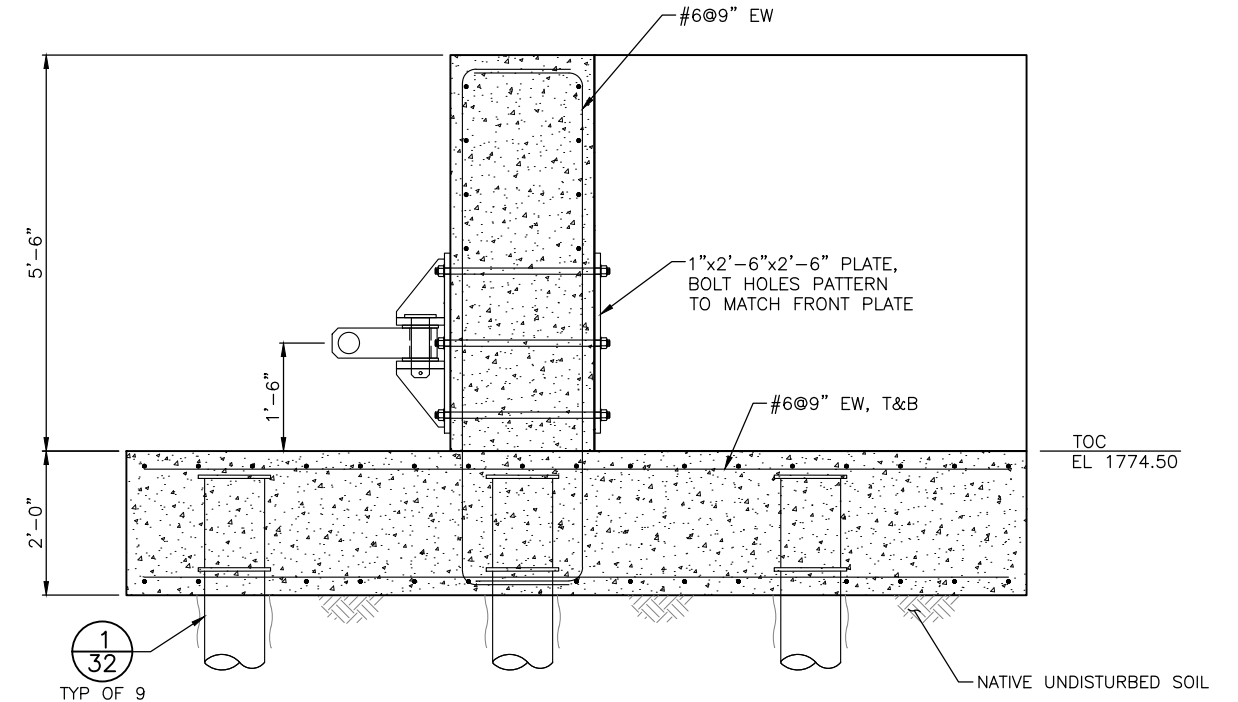
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**SHEET NOTES:**

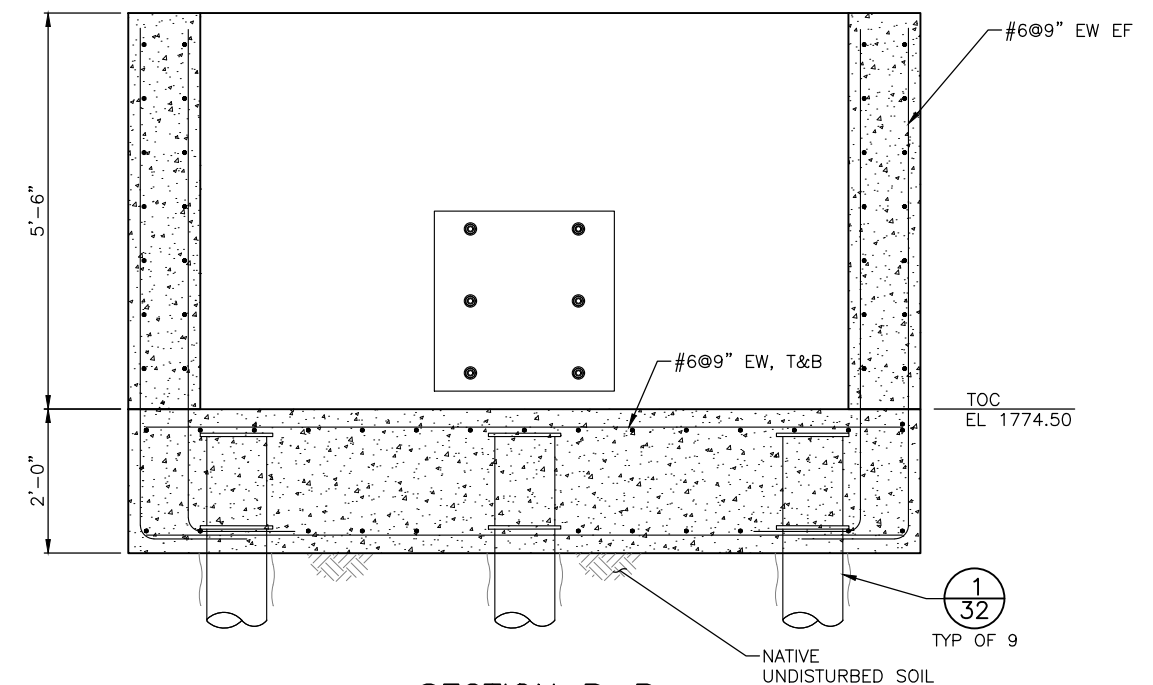
- ALL STEEL HARDWARE AND BOLTS SHALL BE A316 STAINLESS STEEL.



**ANCHOR BLOCK DETAIL** 1/17  
SCALE: 3/4"=1'-0"



**SECTION A-A** 30  
SCALE: 3/4"=1'-0"



**SECTION B-B** 30  
SCALE: 3/4"=1'-0"

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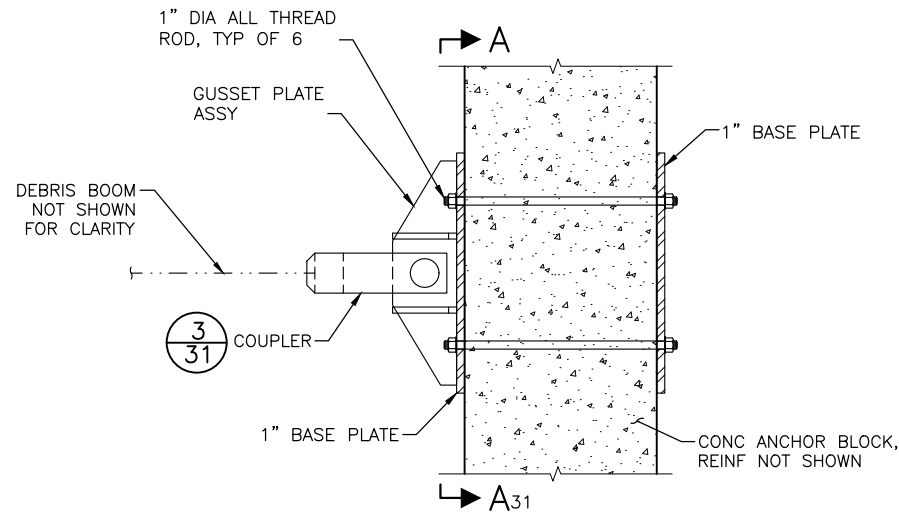
JOB #	PC C117069
CO	912-32
VPI #	S-201
SHEET	30 OF XX

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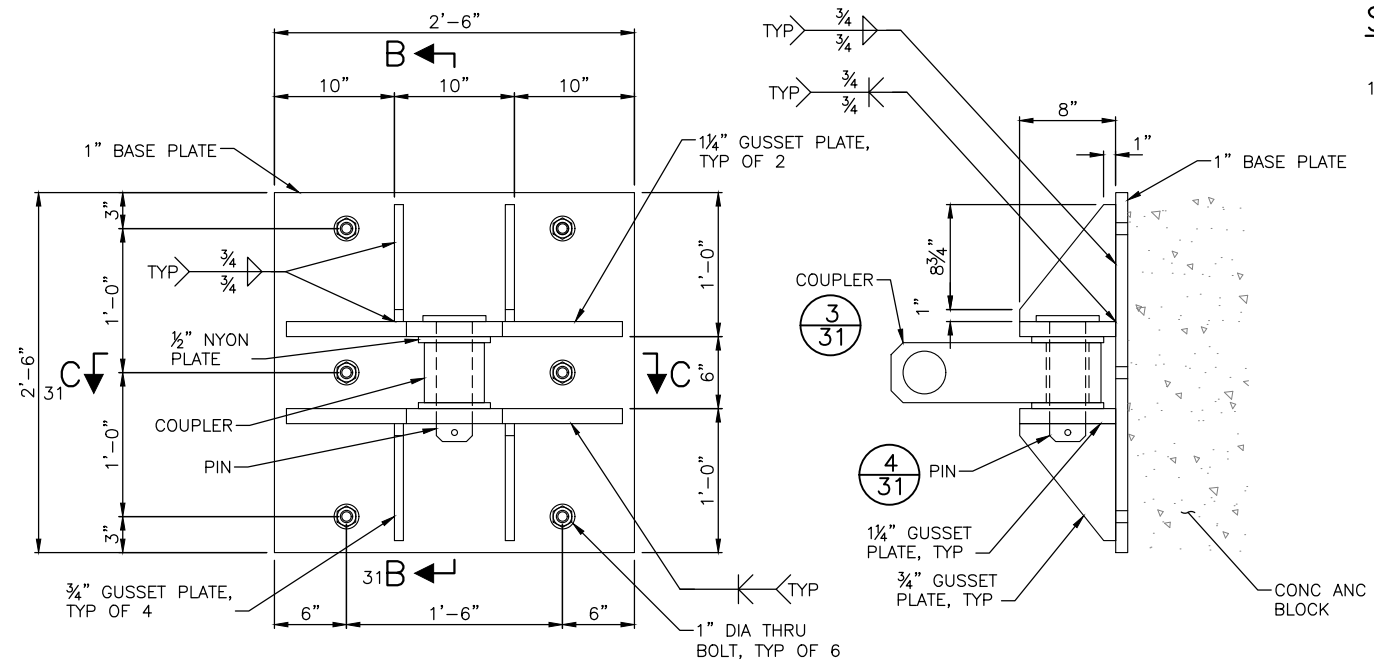
VAULT SERIAL #	DATE	MARK	NATURE	MADE CHKD	REV'D
38810			REVISIONS		

**SHEET NOTES:**

- ALL STEEL SHALL BE A316 STAINLESS STEEL.

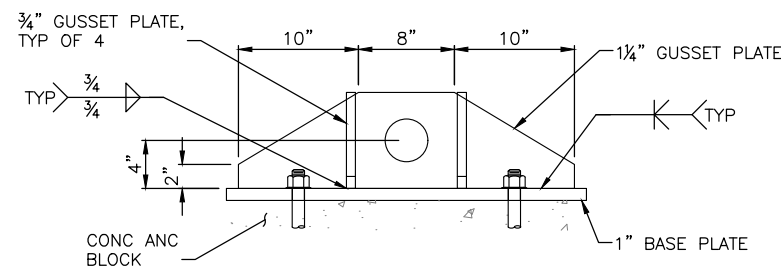


**DEBRIS BOOM ATTACHMENT** (1/30)  
SCALE: 1"=1'-0"

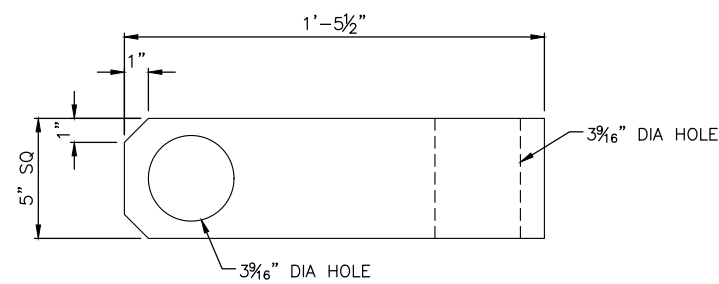


**SECTION A** (31/31)  
SCALE: 1 1/2"=1'-0"

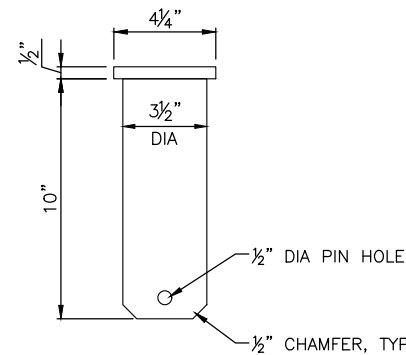
**SECTION B** (31/31)  
SCALE: 1 1/2"=1'-0"



**SECTION C** (31/31)  
SCALE: 1 1/2"=1'-0"



**COUPLER DETAIL** (3/31)  
SCALE: 3"=1'-0"



**PIN DETAIL** (4/31)  
SCALE: 3"=1'-0"

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SHORE ANCHOR SECTIONS AND DETAILS 2



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**SOUTH FORK TOLT RESERVOIR DEBRIS BOOM REPLACEMENT**

JOB NO.	C117069
VPI #	912-32
<b>S-202</b>	
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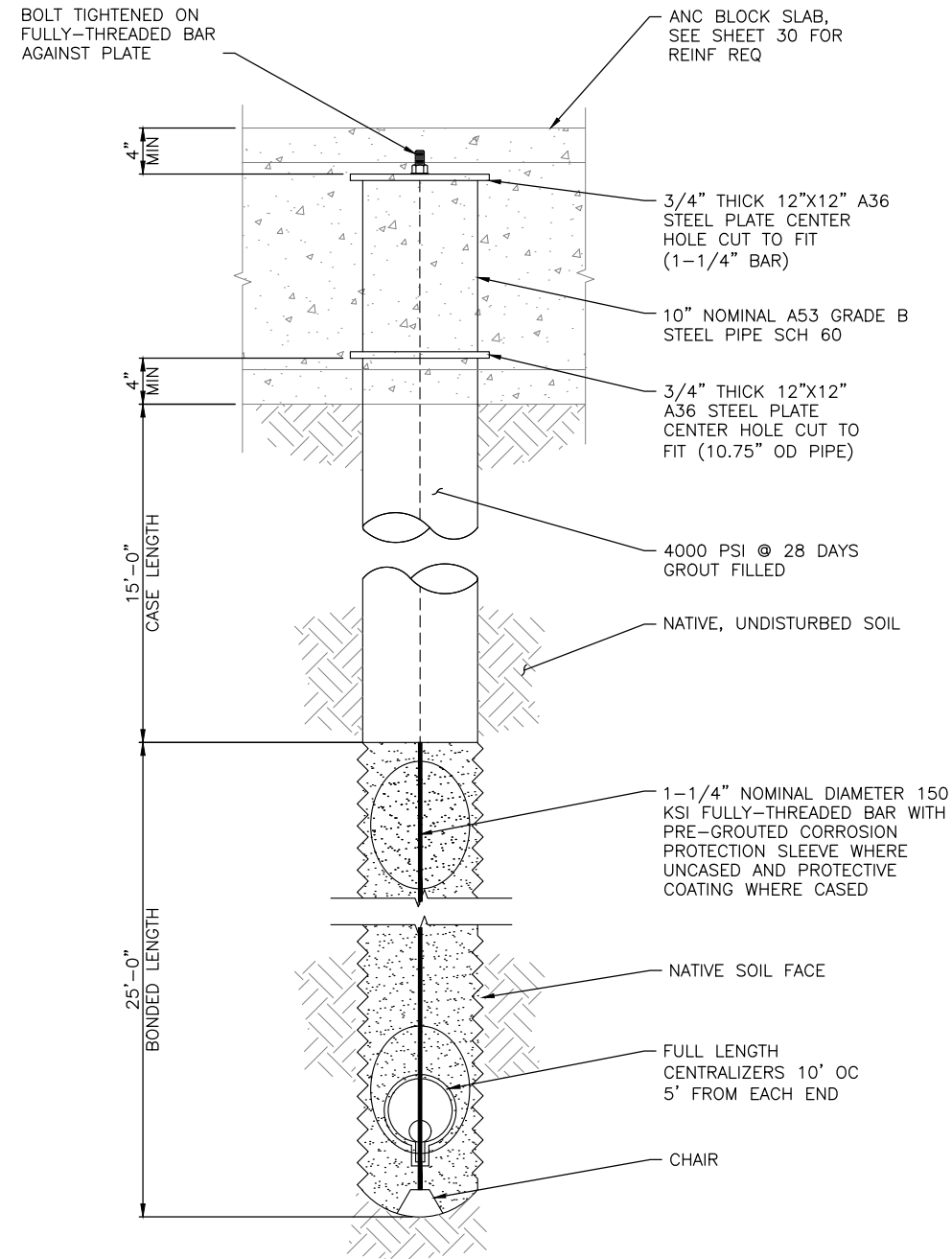
C:\Vault\201\SPU\South Tolt Debris Boom\S-202.dwg wood Jul-06-22 10:40am

VAULT SERIAL #	DATE	MARK	NATURE	MADE CHKD	REV'D
38810					



**SHEET NOTES:**

1. SEE SPECIFICATION 31 63 33 "DRILLED MICROPILES" FOR ADDITIONAL INFORMATION ABOUT CONSTRUCTION
2. COUPLERS MAY BE USED AS SPECIFIED IF RATED BY MANUFACTURER TO EXCEED CAPACITY OF BAR
3. PROTECT COATINGS AND OTHER SURFACE TREATMENTS OF METAL ELEMENTS WITH CORROSION PROTECTION



**MICROPILE DETAIL** 1  
30  
SCALE: NTS

VAULT SERIAL #	DATE	MARK	NATURE	MADE CHKD	REV'D
38810					

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**MICROPILE SECTIONS AND DETAILS**



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ORDINANCE NO. . . . . PW NO. . . . .  
SCALE: AS NOTED

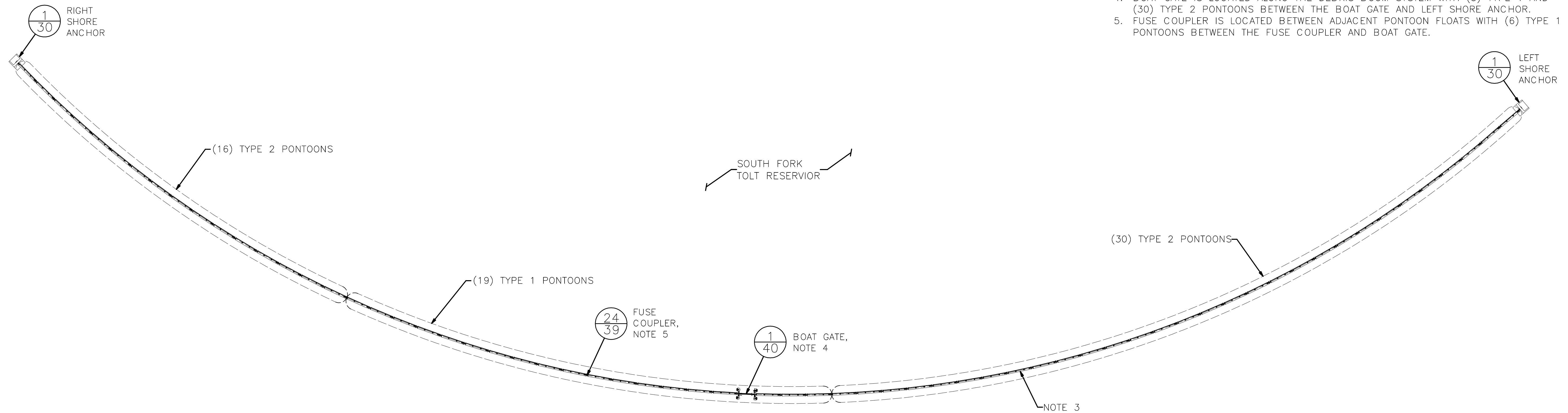
**SOUTH FORK TOLT  
RESERVOIR DEBRIS BOOM  
REPLACEMENT**

JOB #	Pc C117069
CO	
VPI #	912-32
<b>S-203</b>	
SHEET 32 OF XX	

C:\Vault\201\SPU\South Tolt Debris Boom\S-203.dwg wood Jul-06-22 10:40am

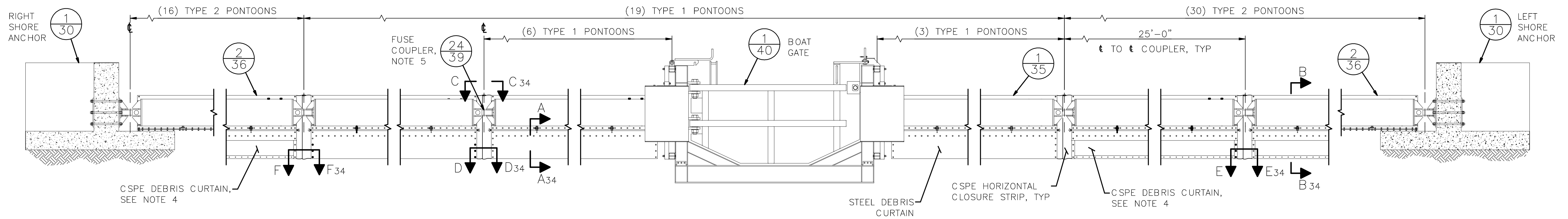
SHEET NOTES:

1. ALL MATERIAL SHALL BE A316 STAINLESS STEEL, UNO.
2. DEBRIS BOOM CONSISTS OF (65) 25FT LONG SECTIONS.
3. HORIZONTAL ALIGNMENT OF DEBRIS BOOM SYSTEM IS AN ASSUMED HORIZONTAL SAG IN THE DOWNSTREAM DIRECTION.
4. BOAT GATE IS LOCATED ALONG THE DEBRIS BOOM SYSTEM WITH (3) TYPE 1 AND (30) TYPE 2 PONTOONS BETWEEN THE BOAT GATE AND LEFT SHORE ANCHOR.
5. FUSE COUPLER IS LOCATED BETWEEN ADJACENT PONTOON FLOATS WITH (6) TYPE 1 PONTOONS BETWEEN THE FUSE COUPLER AND BOAT GATE.



DEBRIS BOOM SYSTEM – PLAN VIEW

SCALE: 1" = 50'



DEBRIS BOOM SYSTEM – DOWNSTREAM ELEVATION

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

90% SUBMITTAL (NOT FOR CONSTRUCTION)

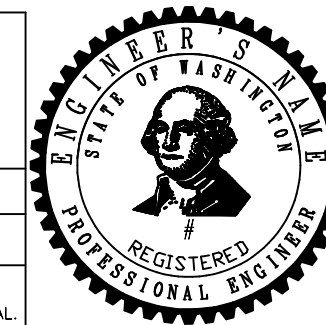


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CHECKED GC

INITIALS AND DATE  
REVIEWED:  
DES. SDOT  
CONST. PROJ. MGR.  
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ORDINANCE NO. PW NO.  
SCALE: AS NOTED

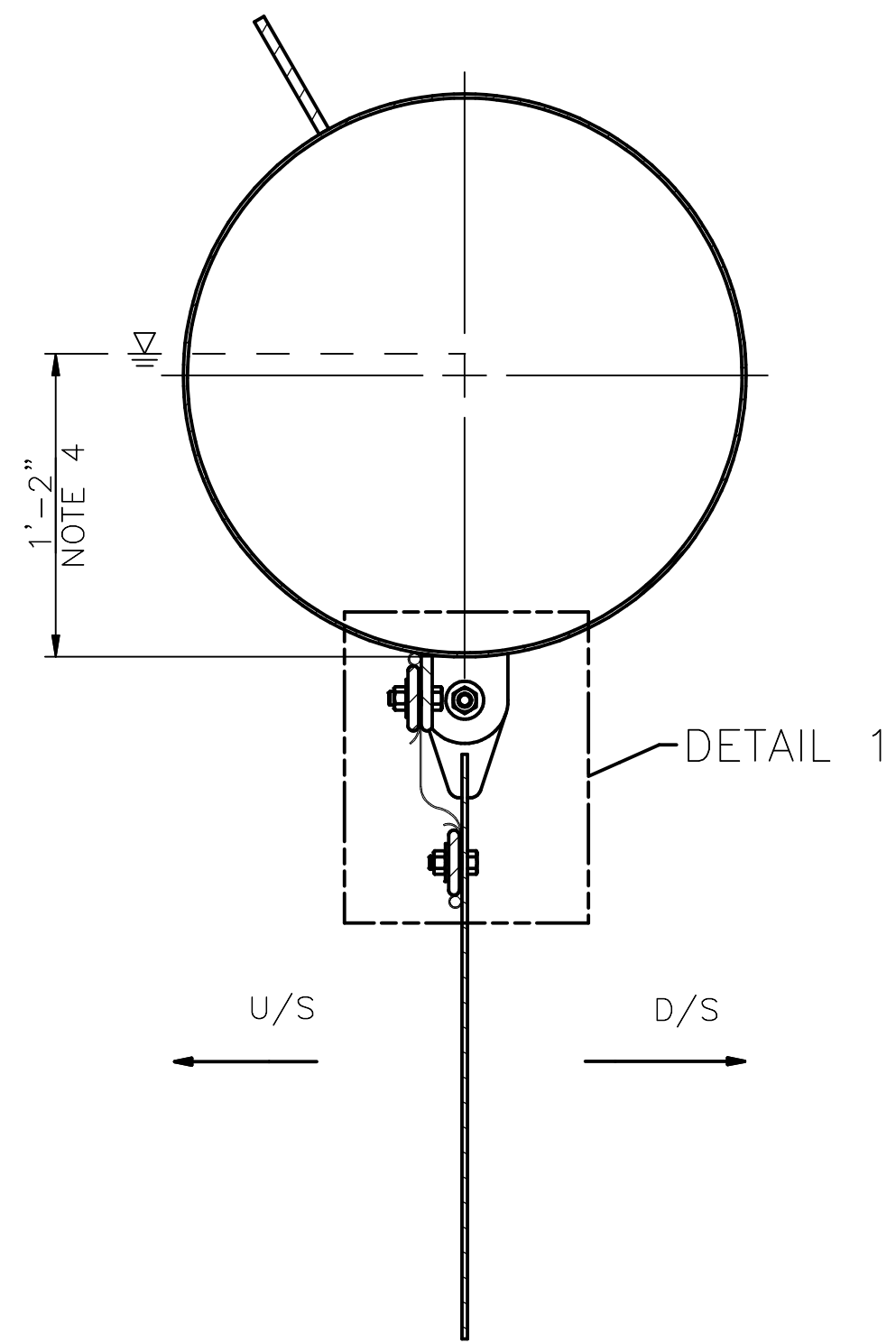
DEBRIS BOOM SYSTEM  
SOUTH FORK TOLT RESERVOIR DEBRIS BOOM REPLACEMENT  
PC C117069  
VPI # 912-32  
S-210  
SHEET 33 OF XX

MADE	CHK'D	REV'D
NATURE	REVISIONS	
DATE	MARK	
Vault Serial #		
38810		

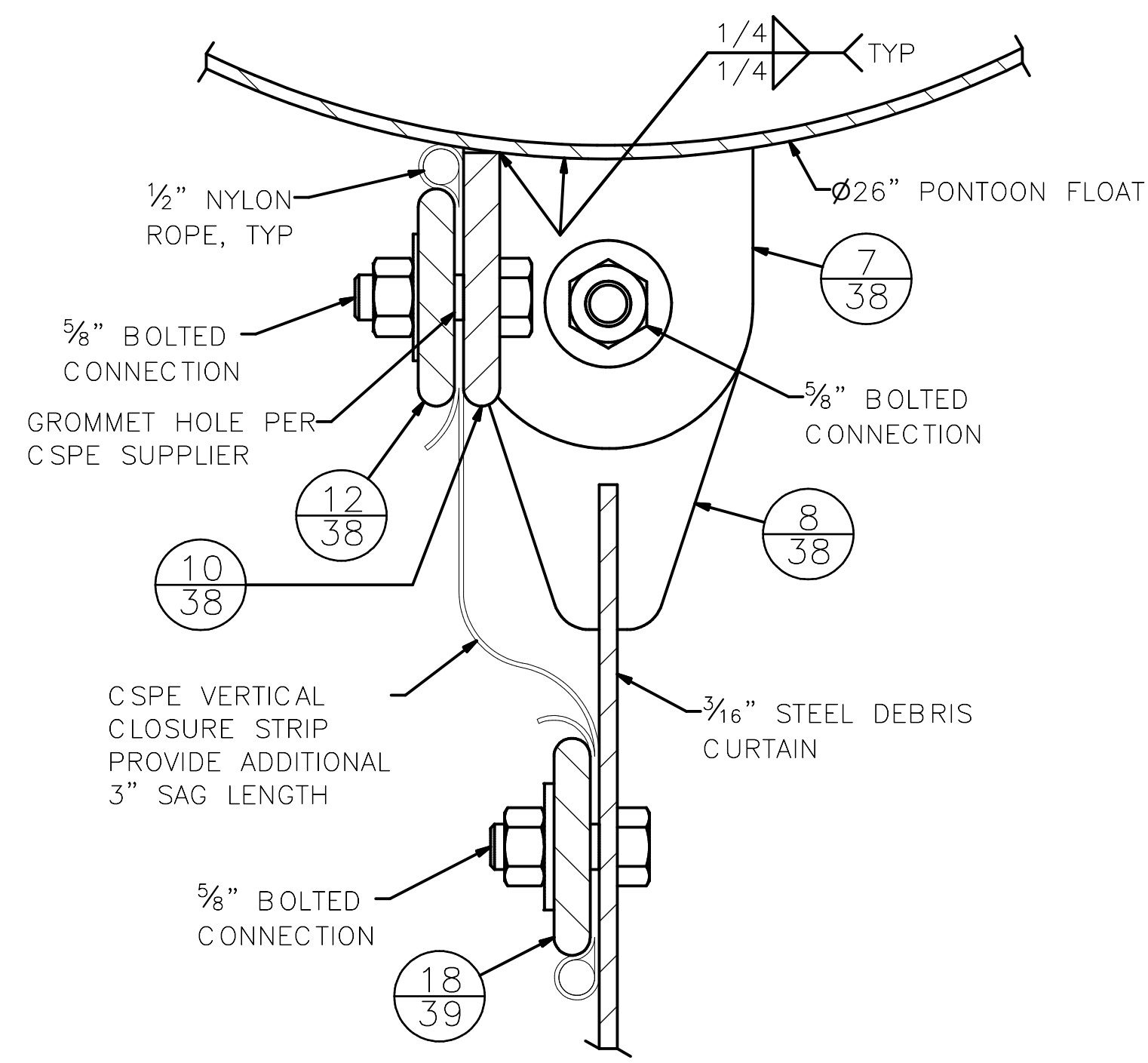
SDOT #####

**GENERAL SHEET NOTES:**

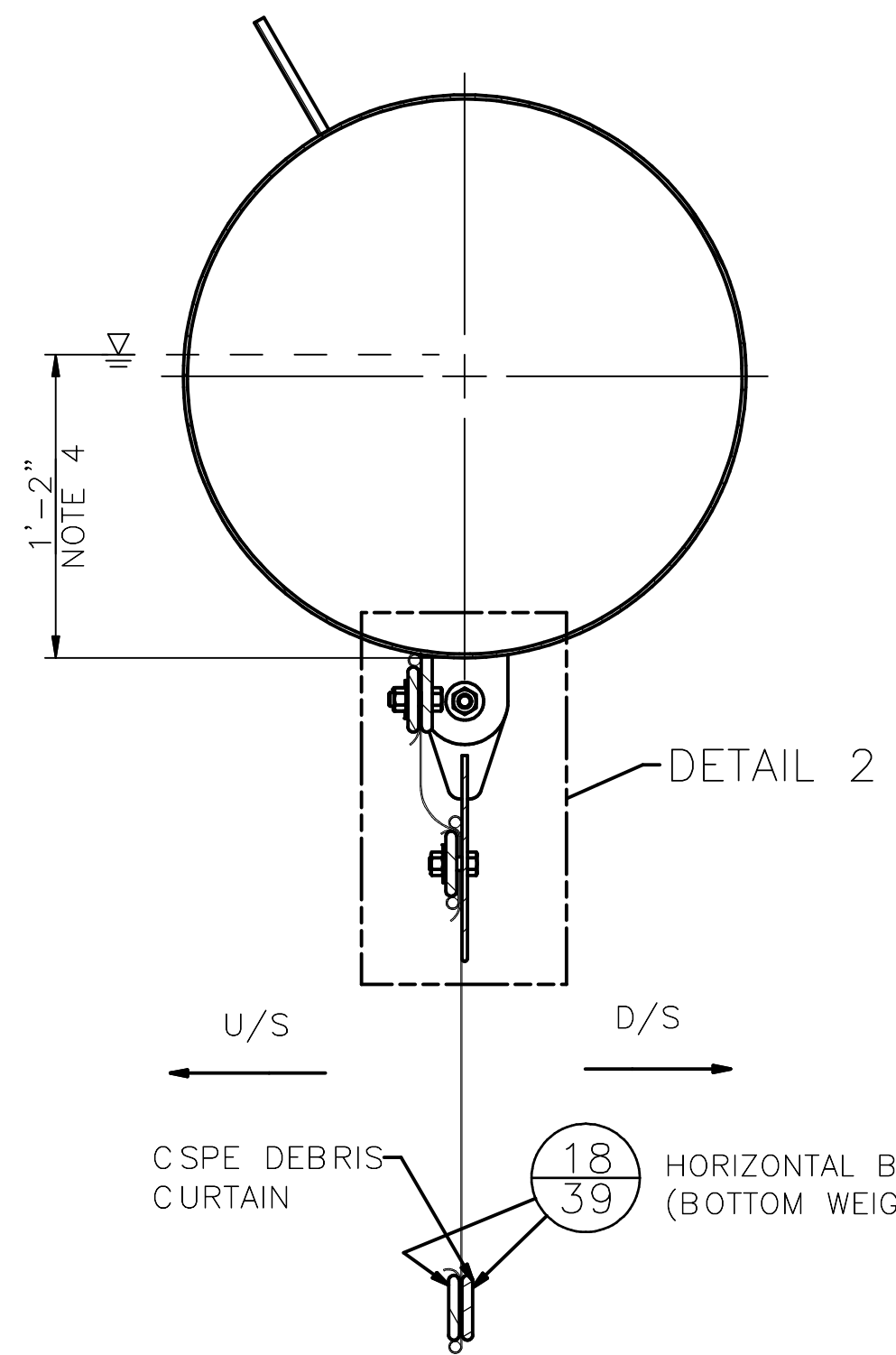
1. ALL HARDWARE SHALL BE A316 STAINLESS STEEL, UNLESS NOTED OTHERWISE.
2. ALL BATTEN PLATES SHALL INCLUDE 1/4" RADIUS, ALL CORNERS.
3. SEE SPECIFICATIONS FOR INFORMATION REGARDING CSPE MATERIAL.
4. EXPECTED DRAFT OF PONTOON IS 1'-2". ELEVATION OF COUPLER CONNECTION WITH BOAT GATE SHALL BE DETERMINED AFTER DRAFT OF BOAT GATE HAS BEEN VERIFIED.



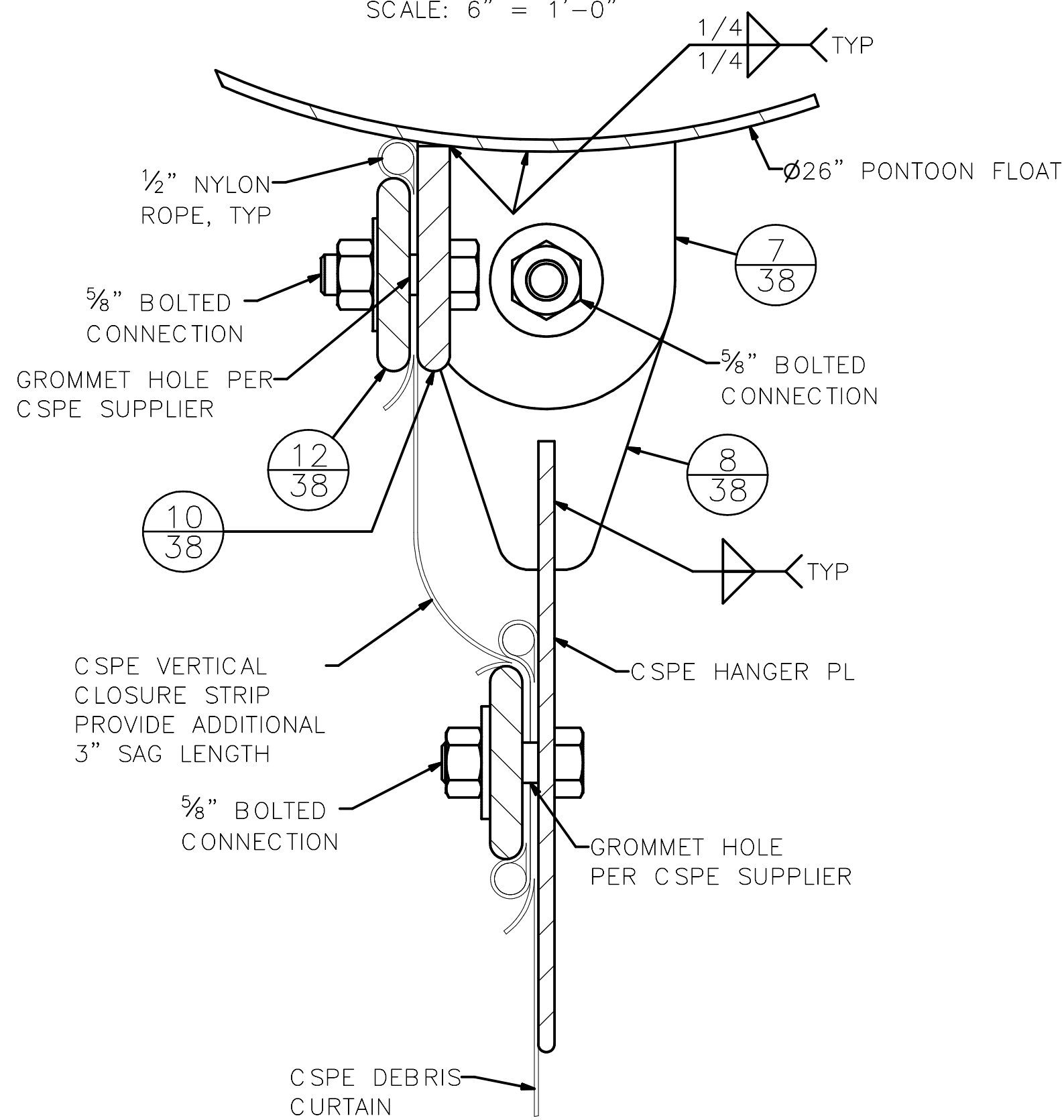
**SECTION A-A** 33  
SCALE: 1 1/2" = 1'-0"



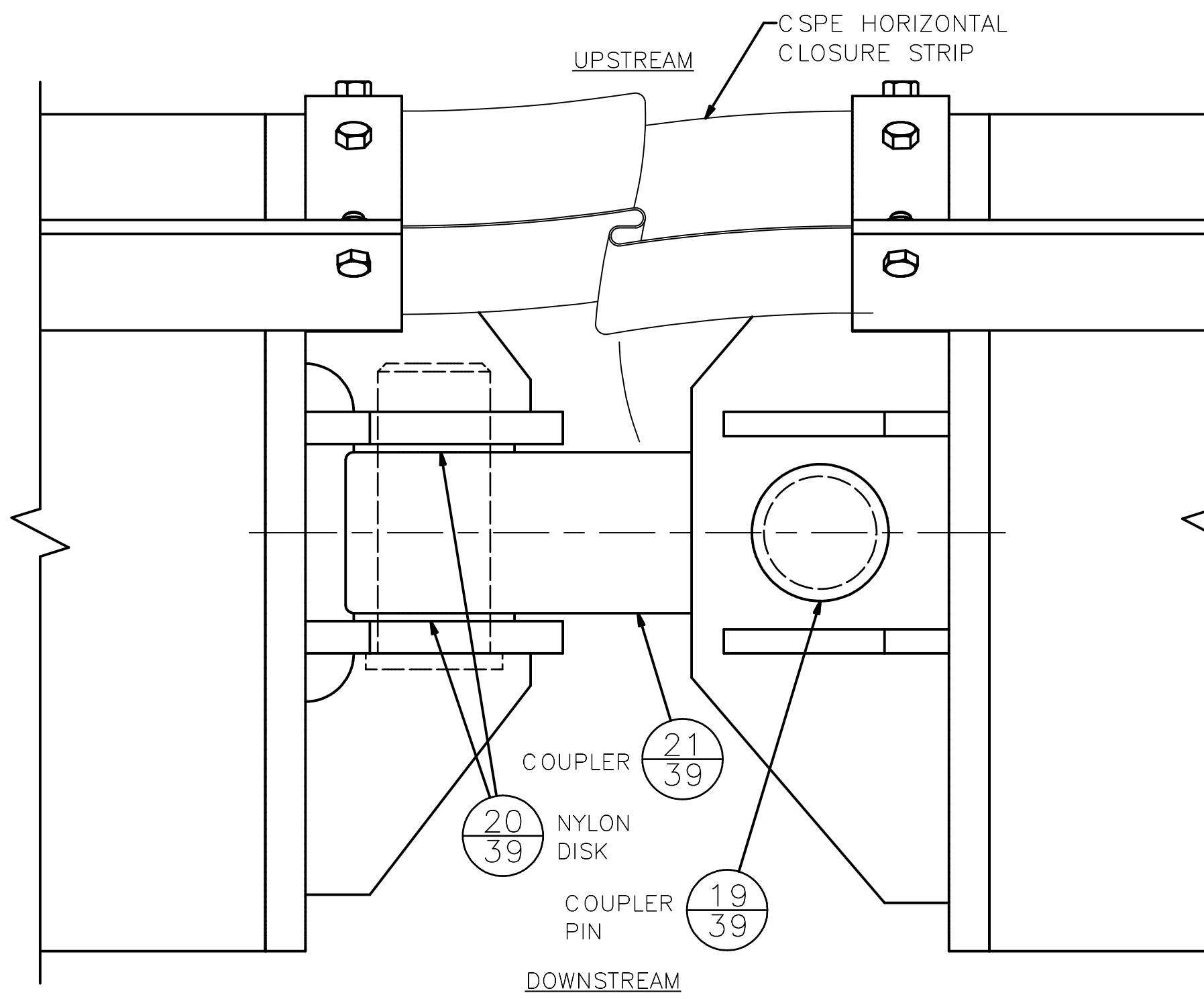
**DETAIL 1** 33  
SCALE: 6" = 1'-0"



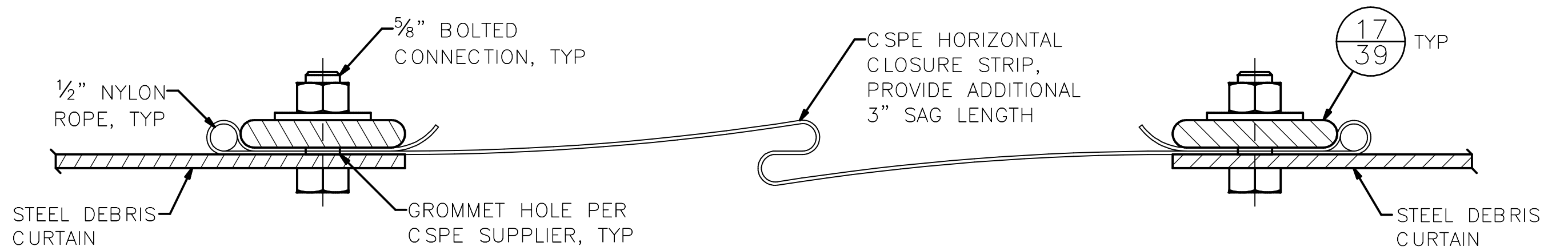
**SECTION B-B** 33  
SCALE: 1 1/2" = 1'-0"



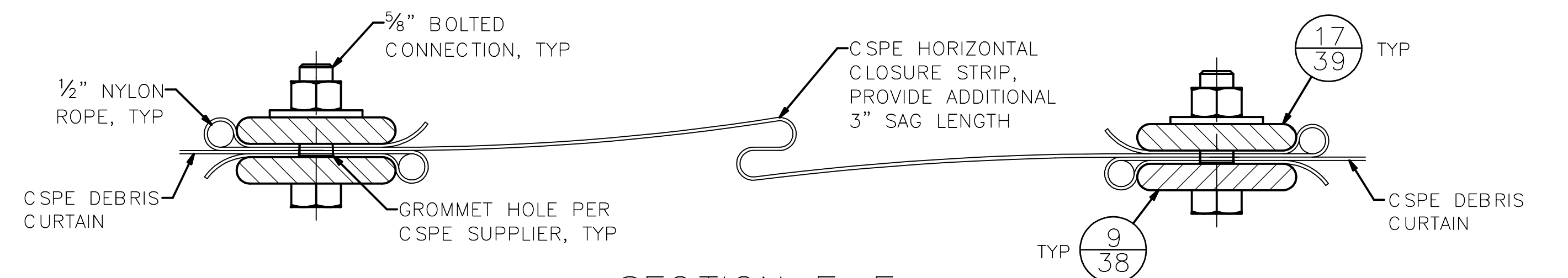
**DETAIL 2** 33  
SCALE: 6" = 1'-0"



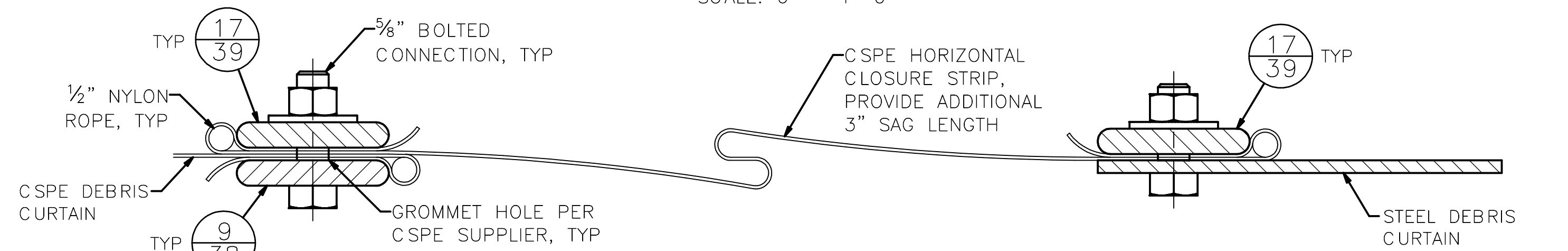
**PLAN C-C** 33  
SCALE: 3" = 1'-0"



**SECTION D-D** 33  
SCALE: 6" = 1'-0"



**SECTION E-E** 33  
SCALE: 6" = 1'-0"



**SECTION F-F** 33  
SCALE: 6" = 1'-0"

**90% SUBMITTAL (NOT FOR CONSTRUCTION)**

DEBRIS BOOM SYSTEM – SECTIONS AND DETAILS

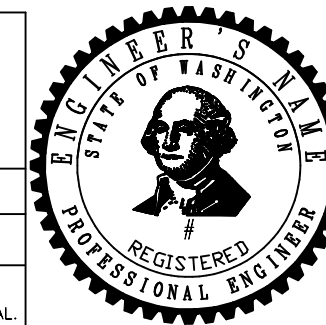


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ORDINANCE NO. PW NO.  
SCALE: AS NOTED

SOUTH FORK TOLT RESERVOIR DEBRIS BOOM REPLACEMENT

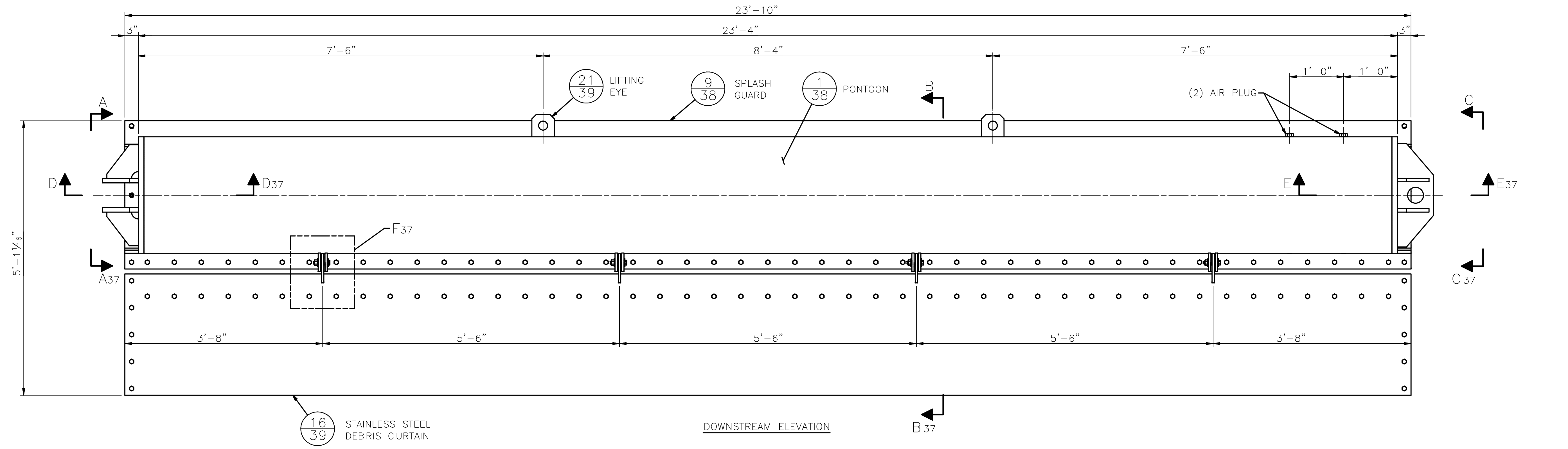
PC C117069  
CO 912-32  
VPI # S-211  
SHEET 34 OF XX

MADE/CHK'D	REV'D
NATURE	REVISIONS
DATE	MARK
Vault Serial #	38810

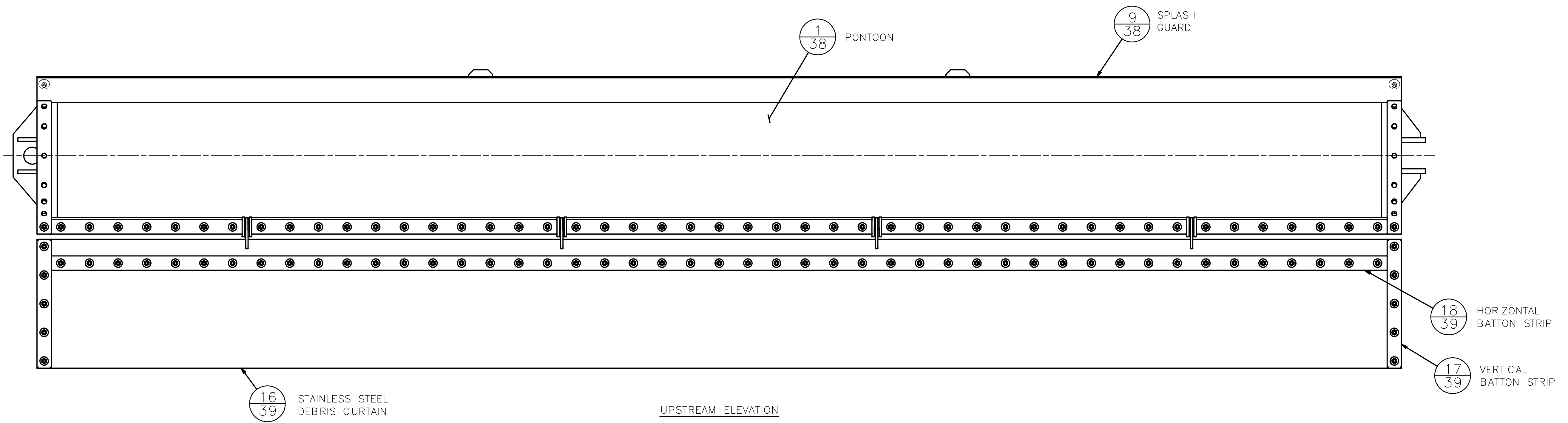
SDOT #####

**SHEET NOTES:**

1. ALL MATERIAL SHALL BE A316 STAINLESS STEEL, UNO.
2. AIR PLUGS SHALL BE USED TO TEMPORARILY PRESSURE THE PONTOONS AND VERIFY WATER-TIGHT VESSEL, SEE SPECIFICATIONS.



DOWNSTREAM ELEVATION



UPSTREAM ELEVATION

TYPE 1 PONTOON (1/33)  
SCALE: 1" = 1'-0"

MADE/CHK'D	REV'D
NATURE	REVISIONS
DATE	MARK
Vault Serial #	38810

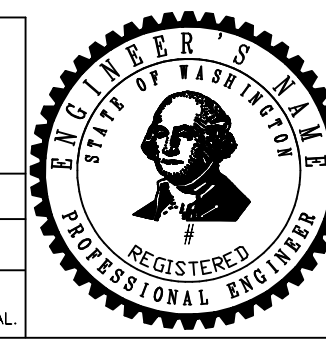
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CITY PURCHASING & CONTRACTING SERVICES DIRECTOR

INITIALS AND DATE  
DESIGNED GC  
CHECKED TB  
DRAWN JC  
CHECKED GC  
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REVIEWED: DES. SDOT  
CONST. PROJ. MGR.  
RECEIVED  
REVISED AS BUILT



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ORDINANCE NO. \_\_\_\_\_ PW NO. \_\_\_\_\_  
SCALE: AS NOTED

DEBRIS BOOM TYPE 1 PONTOON ASSEMBLY

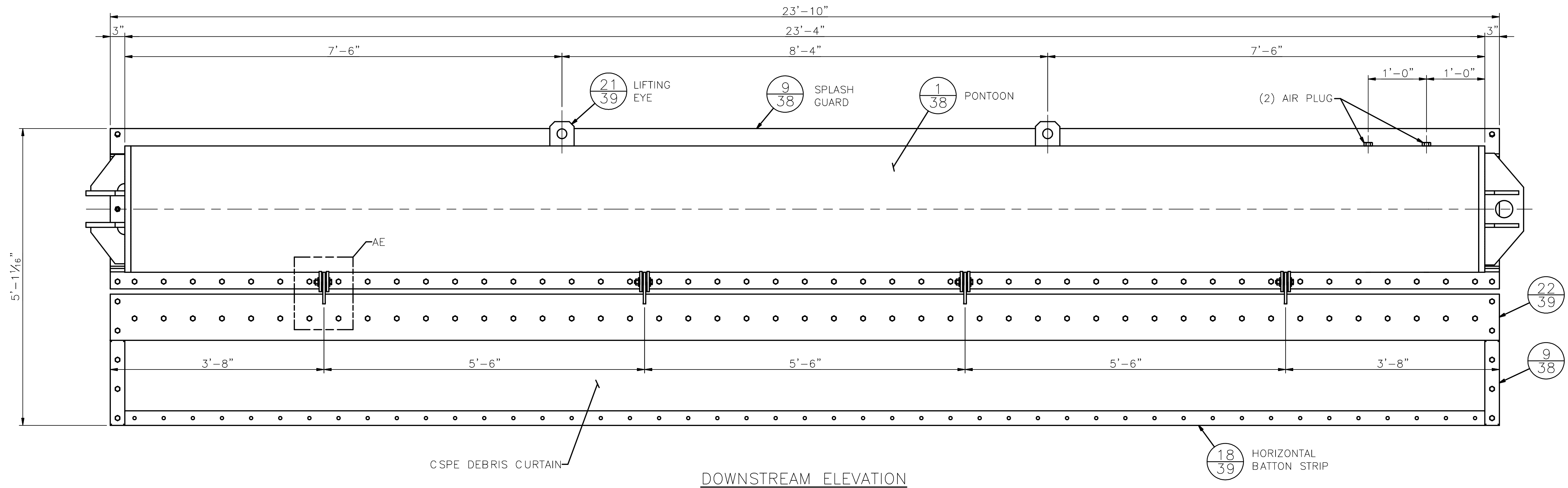
SOUTH FORK TOLT RESERVOIR DEBRIS BOOM REPLACEMENT

PC	C117069
CO	
VPI #	912-32
<b>S-212</b>	
SHEET 35 OF XX	

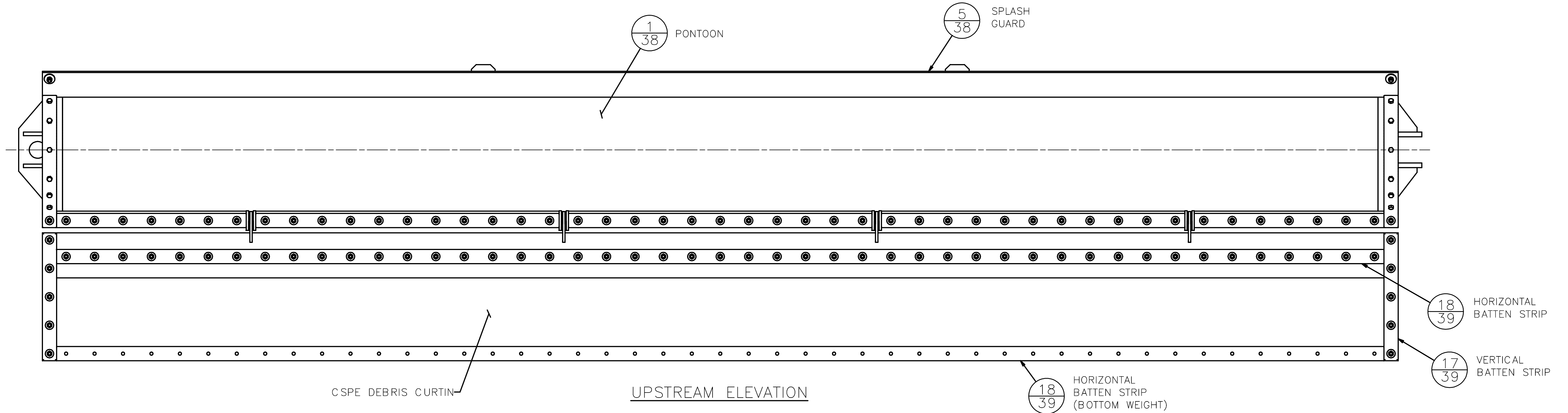
SDOT #####

**SHEET NOTES:**

1. ALL MATERIAL SHALL BE A316 STAINLESS STEEL, UNO.
2. AIR PLUGS SHALL BE USED TO TEMPORARILY PRESSURE THE PONTOONS AND VERIFY WATER-TIGHT VESSEL, SEE SPECIFICATIONS.



**DOWNSTREAM ELEVATION**



**UPSTREAM ELEVATION**

**TYPE 2 PONTOON**  
SCALE: 1" = 1'-0"

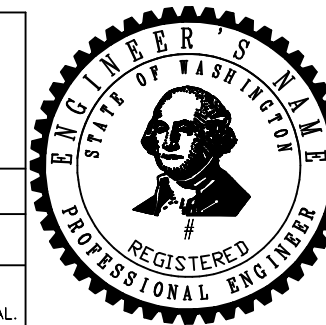
MADE/CHK'D	REV'D
NATURE	REVISIONS
DATE	MARK
Vault Serial #	38810

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INITIALS AND DATE	INITIALS AND DATE
DESIGNED GC	REVIEWED:
CHECKED TB	DES. SDOT
	CONST. PROJ. MGR.
DRAWN JC	RECEIVED
CHECKED GC	REVISED AS BUILT
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SCALE: AS NOTED

DEBRIS BOOM TYPE 2 PONTOON ASSEMBLY

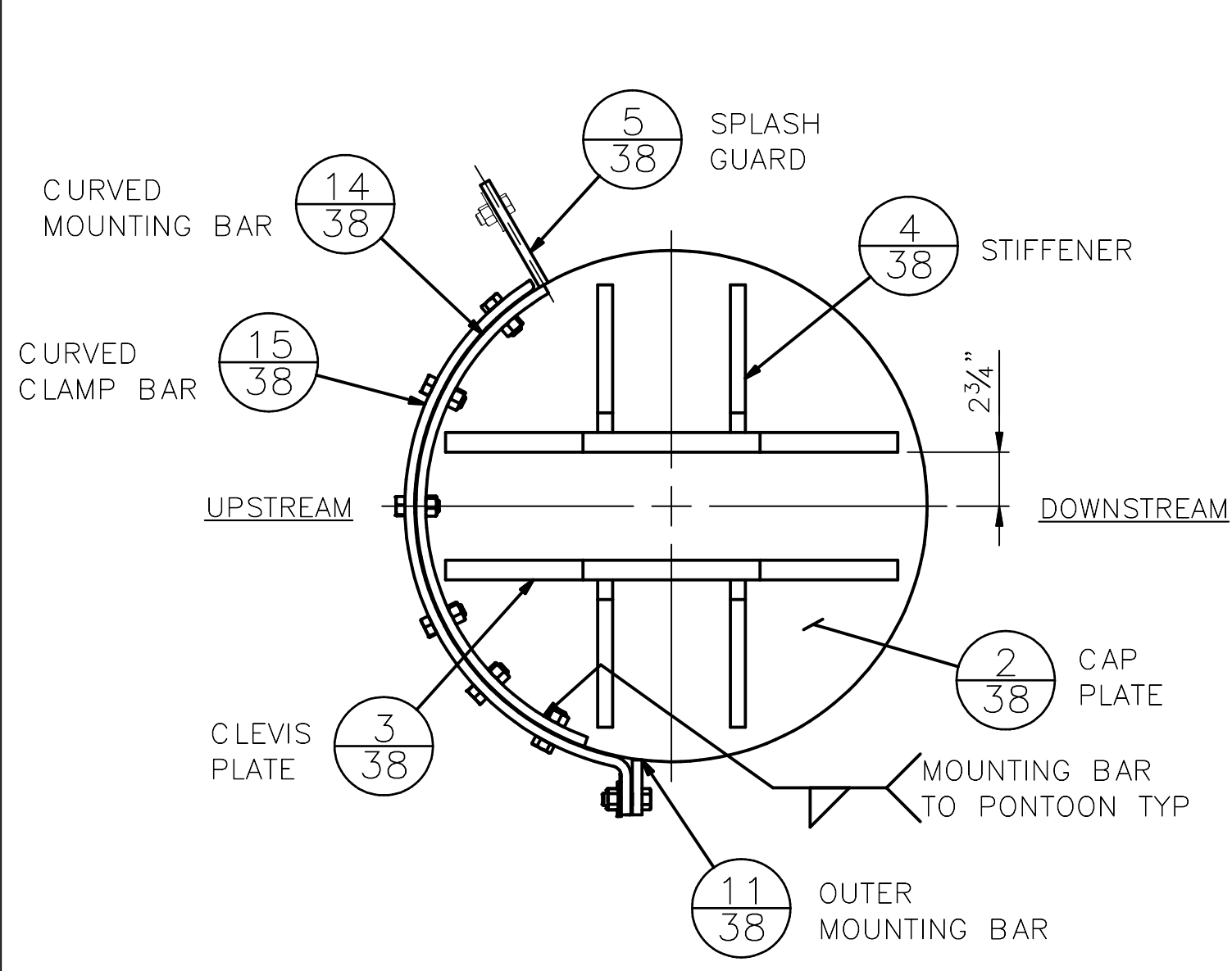
SOUTH FORK TOLT RESERVOIR DEBRIS BOOM REPLACEMENT

PC	C117069
CO	
VPI #	912-32
<b>S-213</b>	
SHEET 36 OF XX	

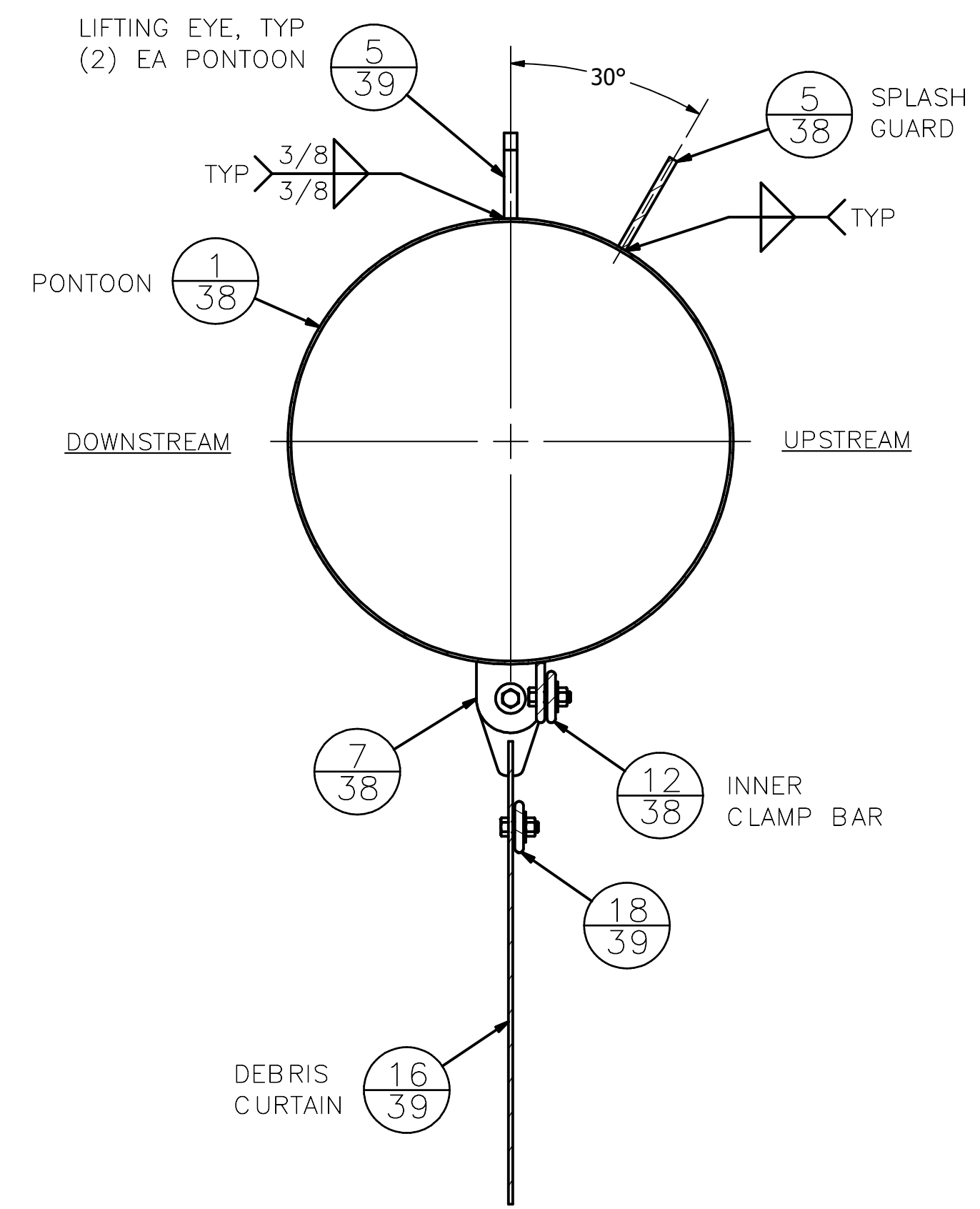
SDOT #####

SHEET NOTES:

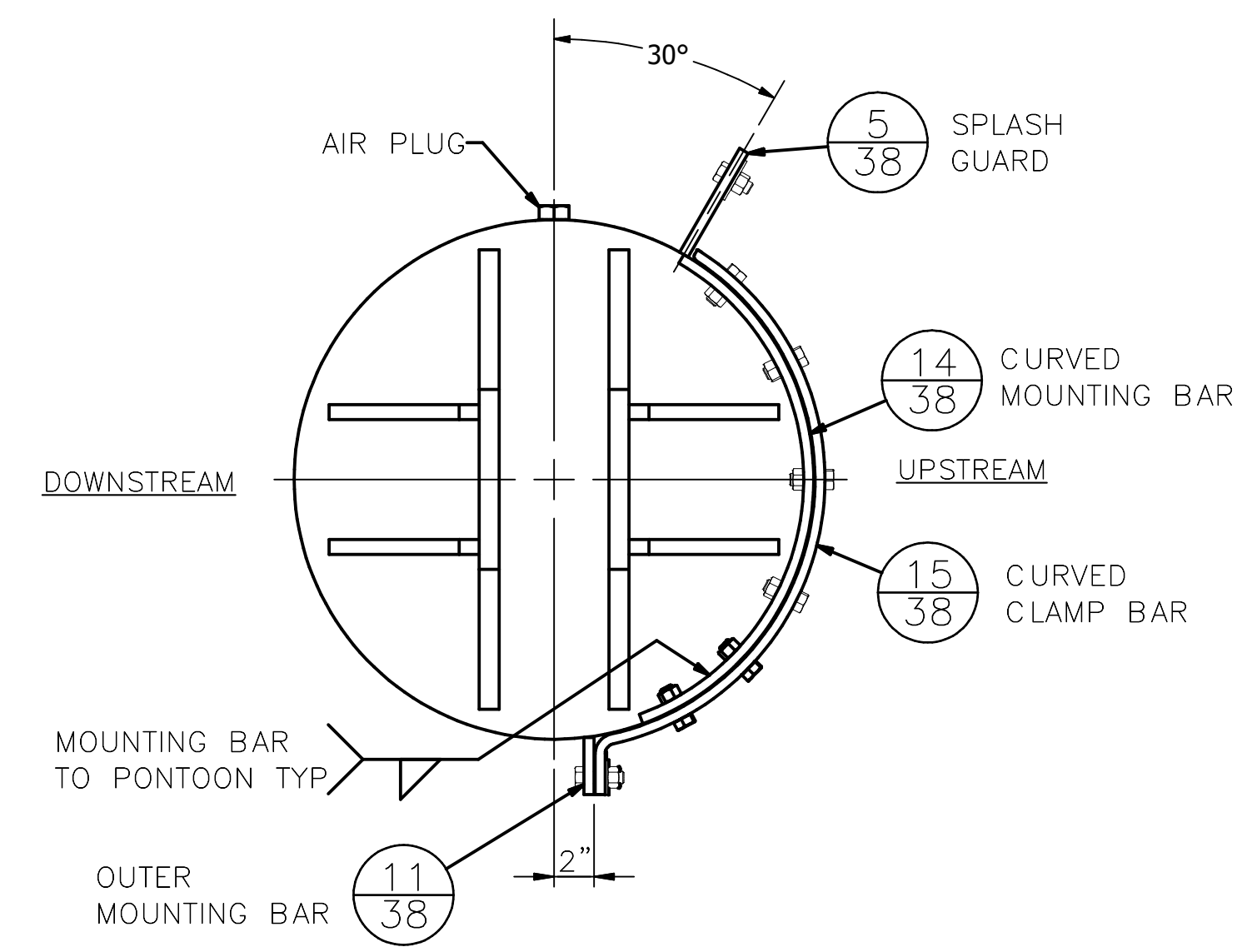
1. ALL MATERIAL SHALL BE A316 STAINLESS STEEL, UNO.



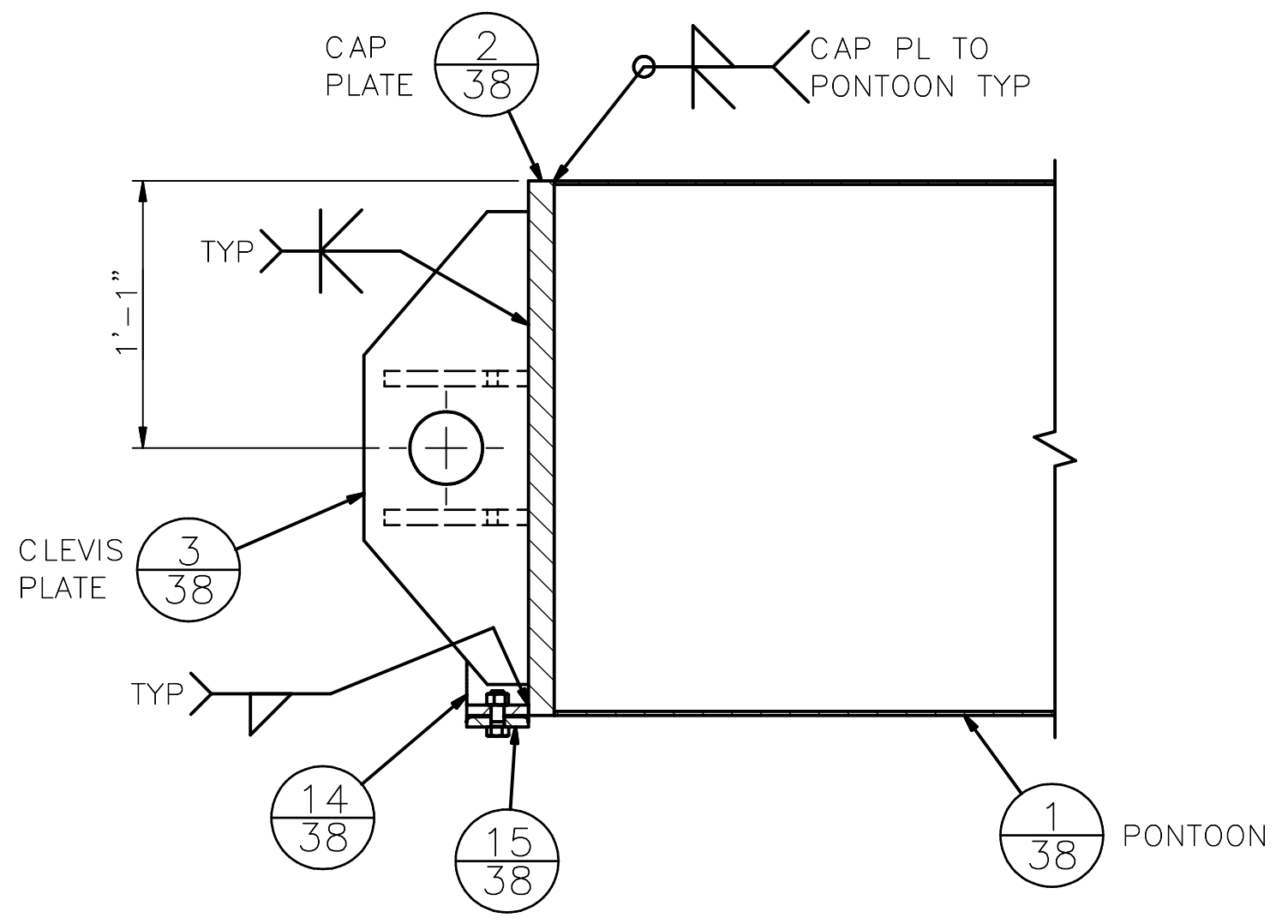
VIEW A-A 35  
SCALE: 1 1/2" = 1'-0"



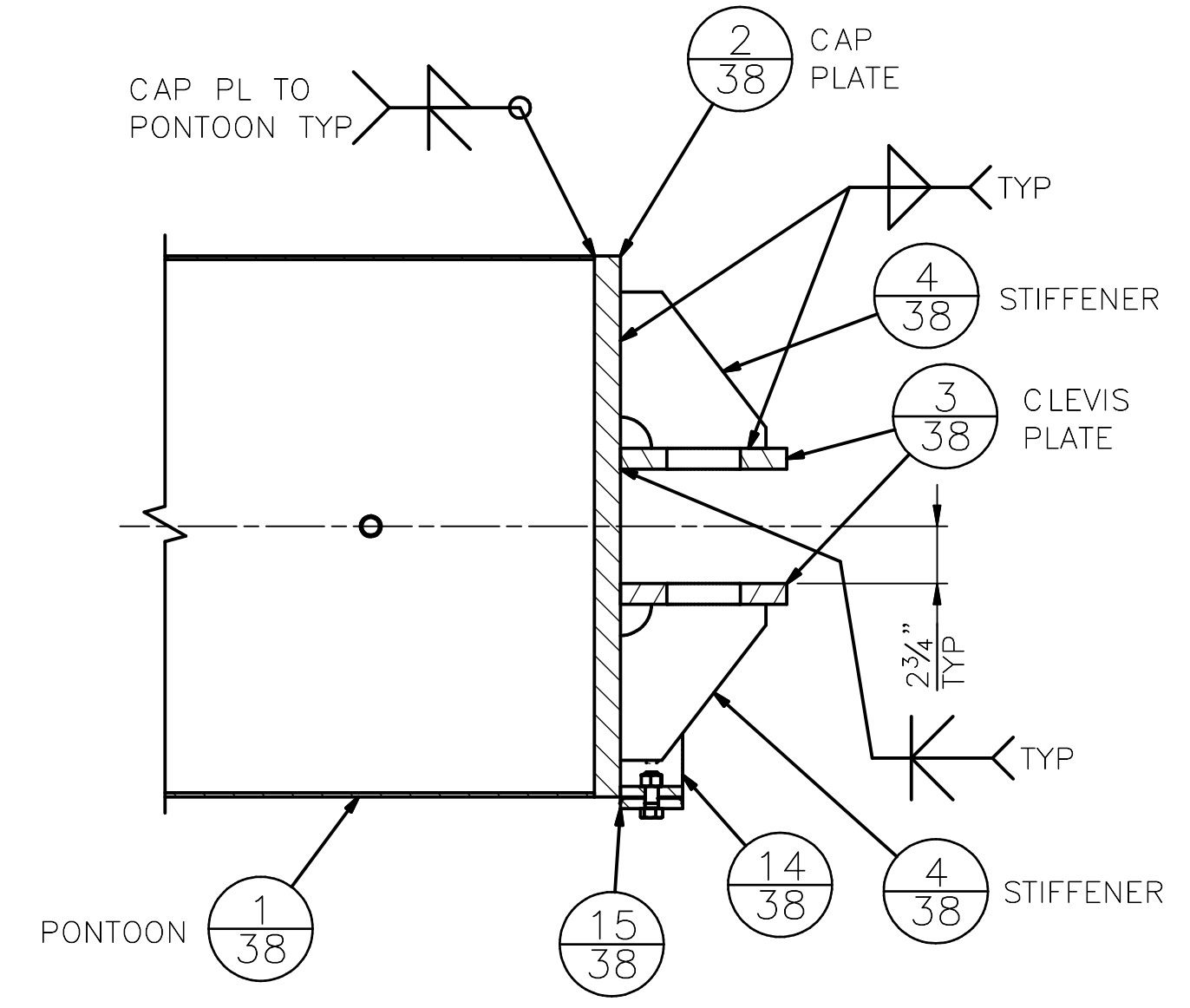
SECTION B-B 35  
SCALE: 1 1/2" = 1'-0"



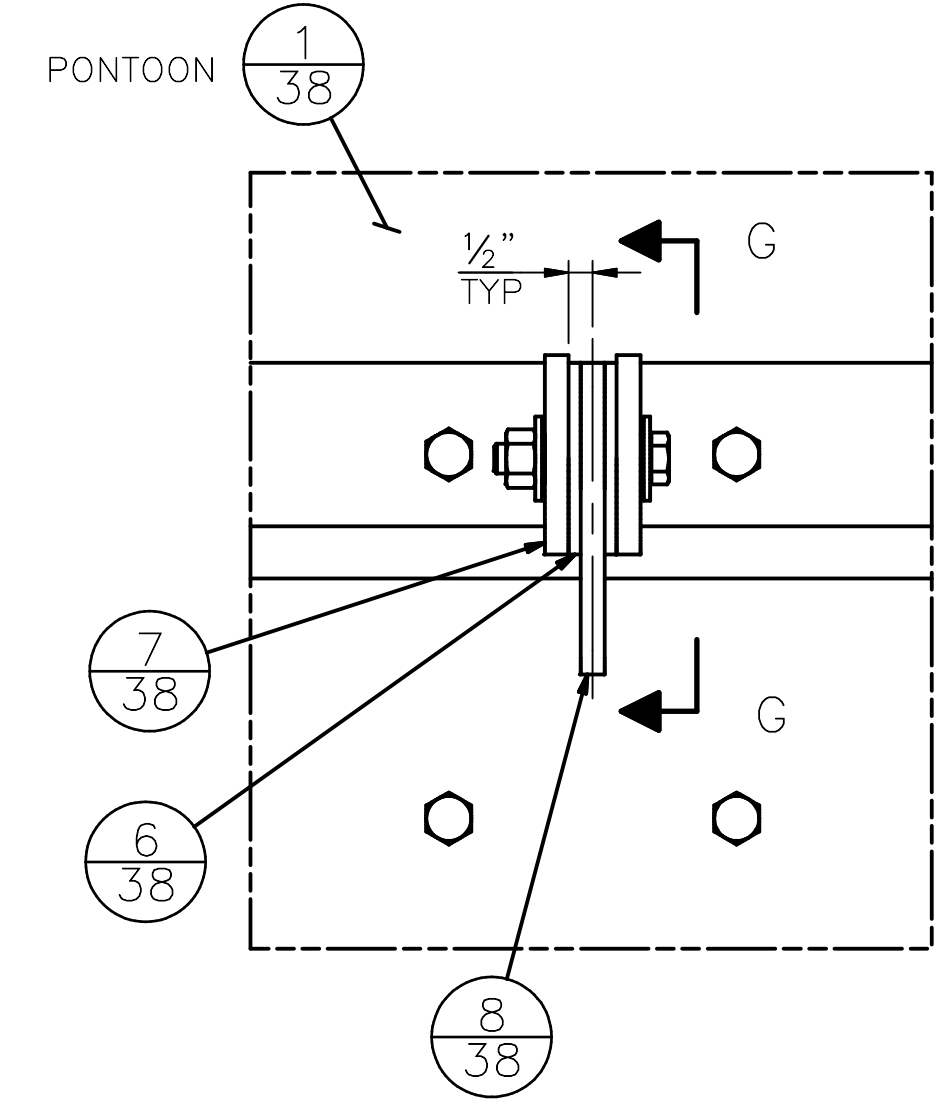
VIEW C-C 35  
SCALE: 1 1/2" = 1'-0"



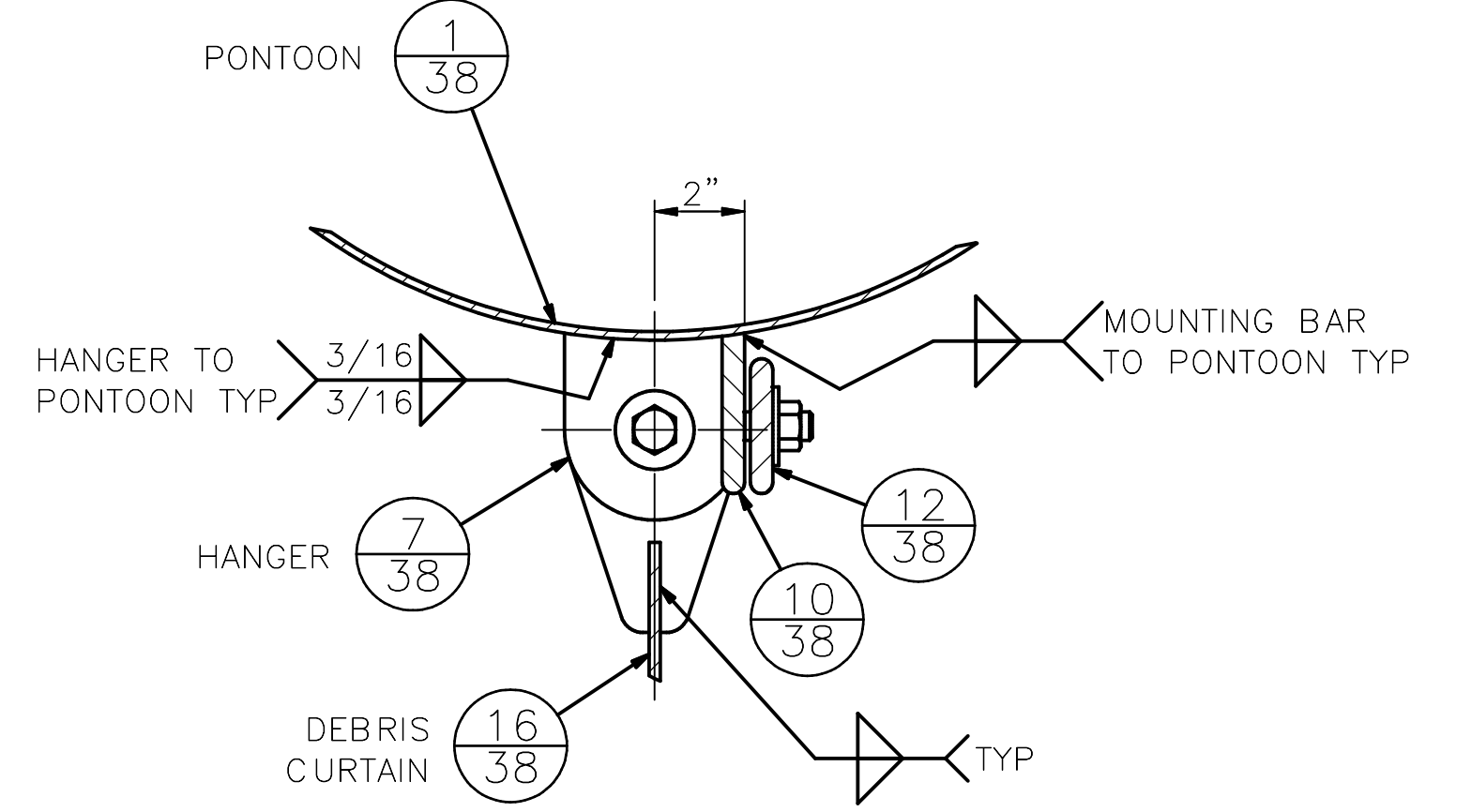
SECTION D-D 35  
SCALE: 1 1/2" = 1'-0"



SECTION E-E 35  
SCALE: 1 1/2" = 1'-0"



DETAIL F 35  
SCALE: 3" = 1'-0"



SECTION G-G 37  
SCALE: 3" = 1'-0"

REVISIONS	DATE	MARK	NATURE
MADE CH'D			REV'D

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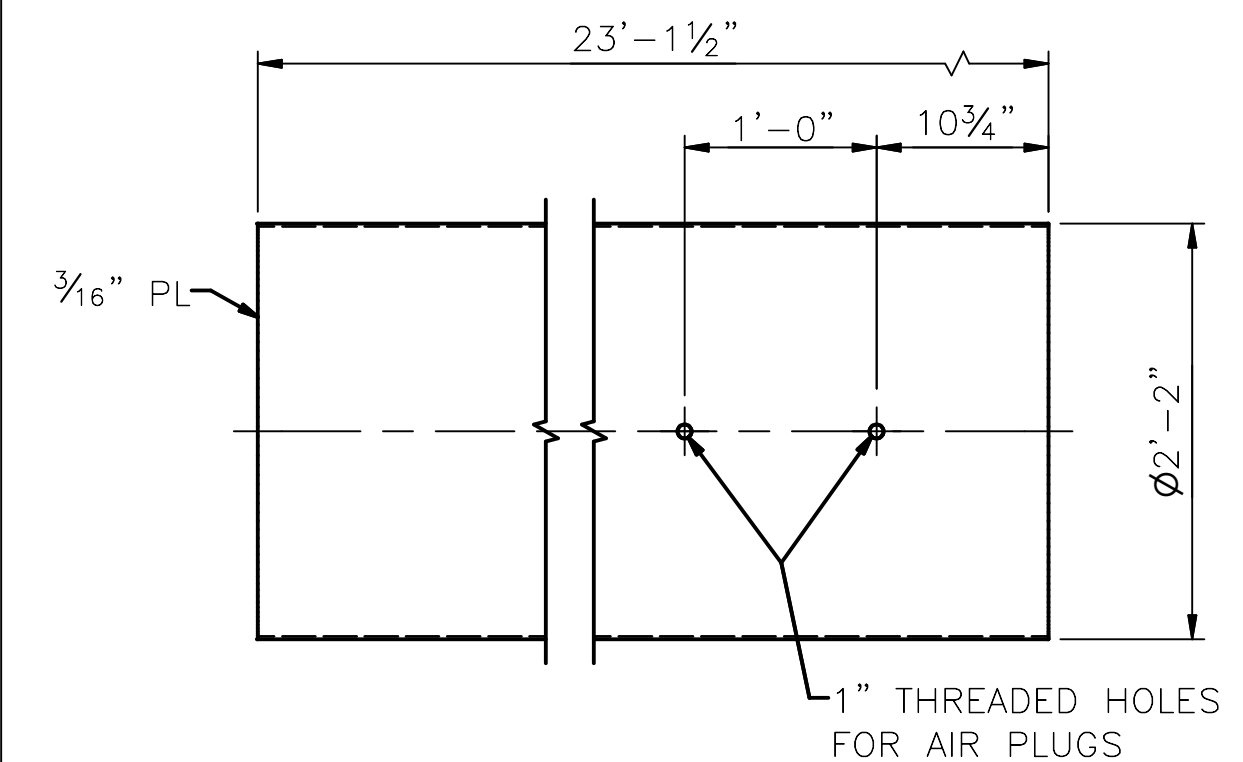
SOUTH FORK TOLT RESERVOIR DEBRIS BOOM REPLACEMENT

PC	C117069
VPI #	912-32
SHEET	<b>S-214</b>
	OF XX

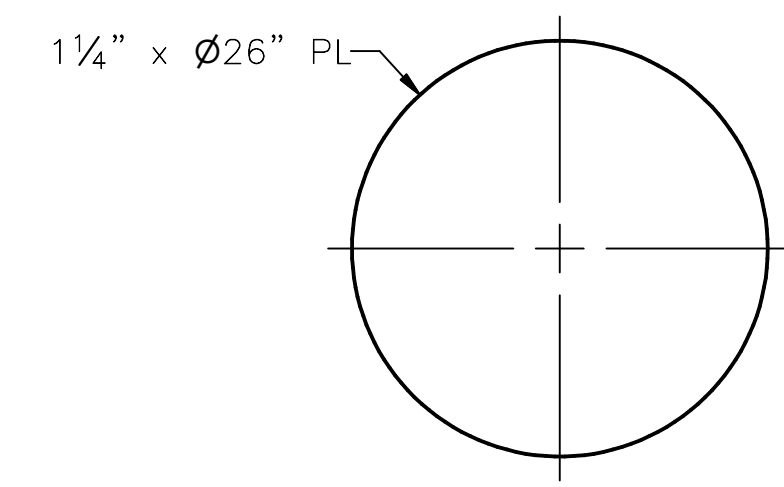
SDOT #####

**SHEET NOTES:**

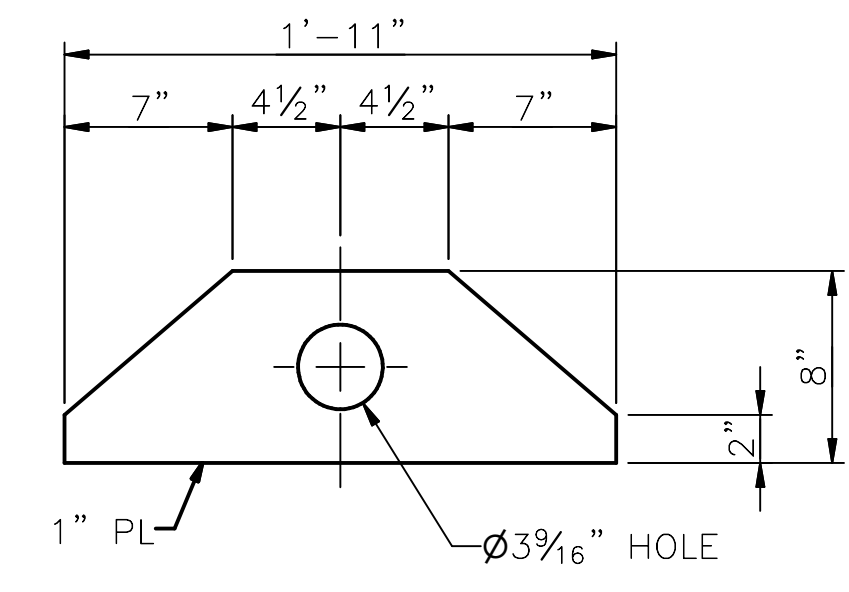
1. ALL MATERIAL SHALL BE A316 STAINLESS STEEL, UNO.



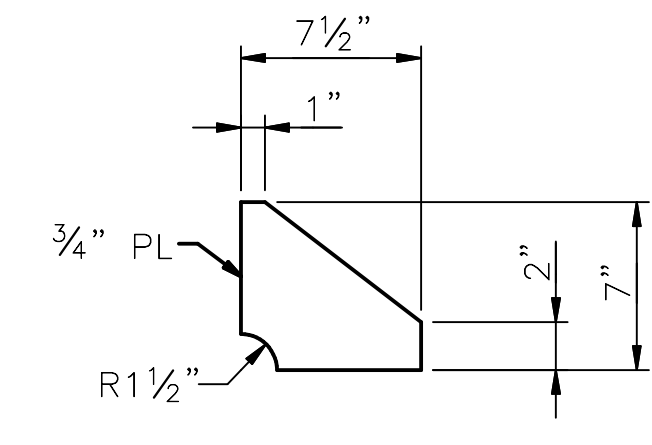
**PONTOON** (1/35)  
SCALE: 1" = 1'-0"



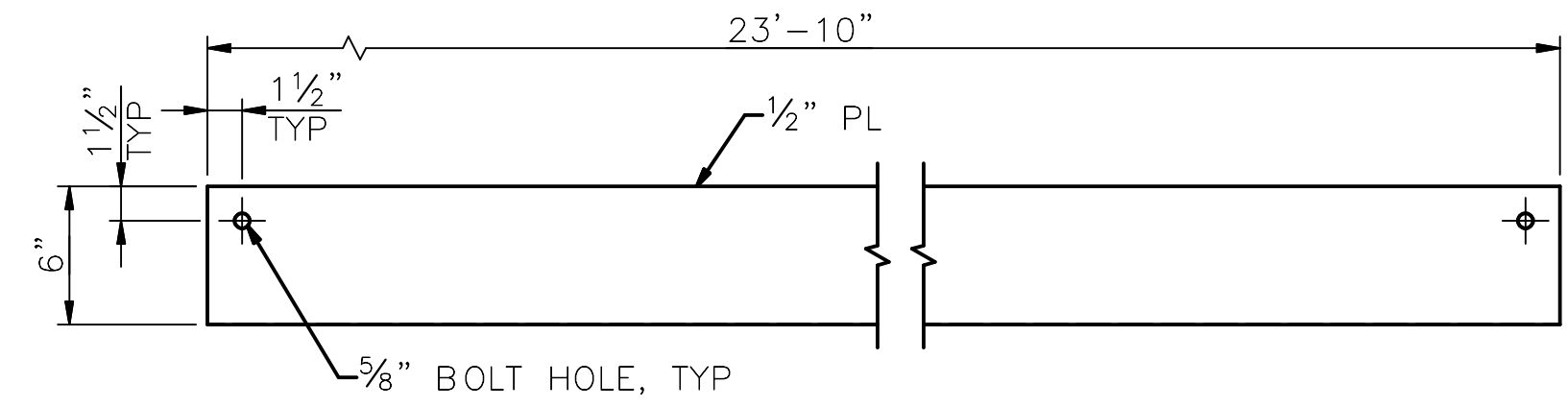
**END PLATE** (2/36)  
SCALE: 1" = 1'-0"



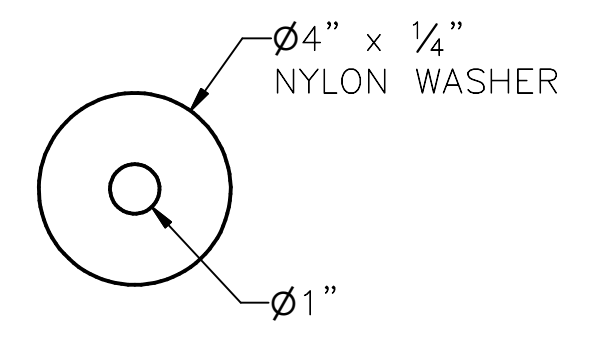
**CLEVIS PLATE** (3/36)  
SCALE: 1 1/2" = 1'-0"



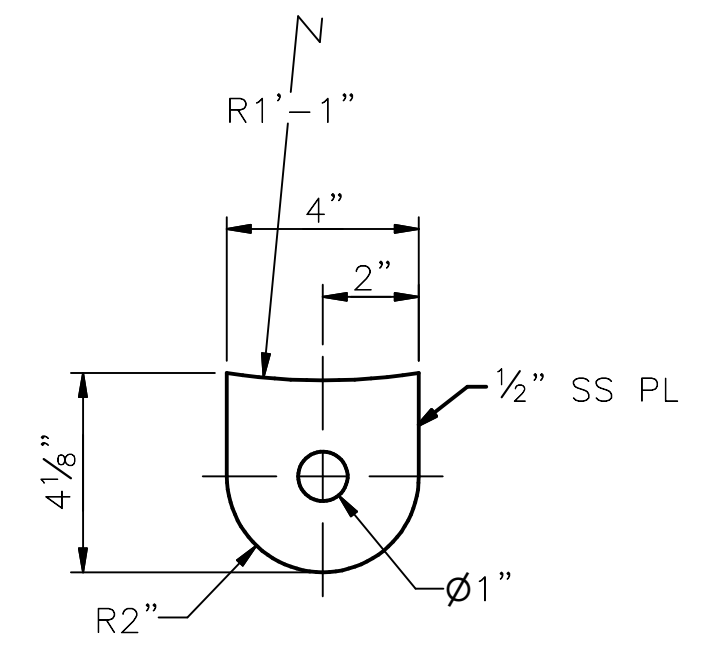
**STIFFENER** (4/36)  
SCALE: 1 1/2" = 1'-0"



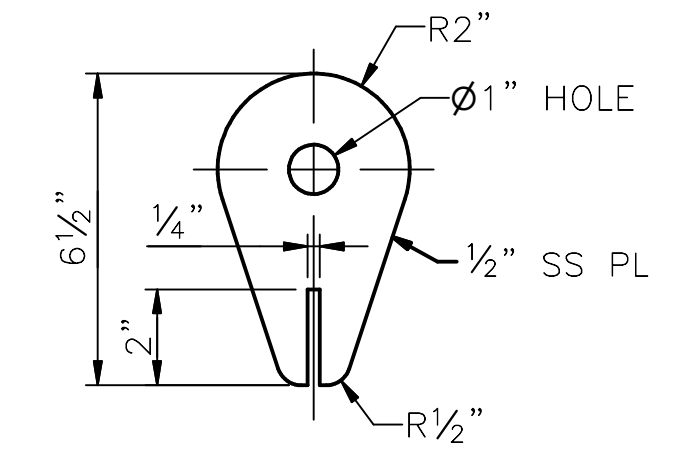
**SPLASH GUARD** (5/35)  
SCALE: 1 1/2" = 1'-0"



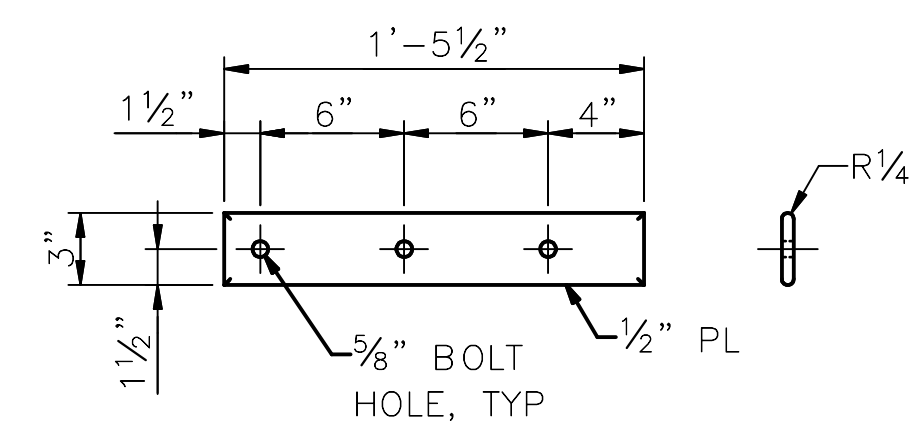
**NYLON WASHER** (6/37)  
SCALE: 3" = 1'-0"



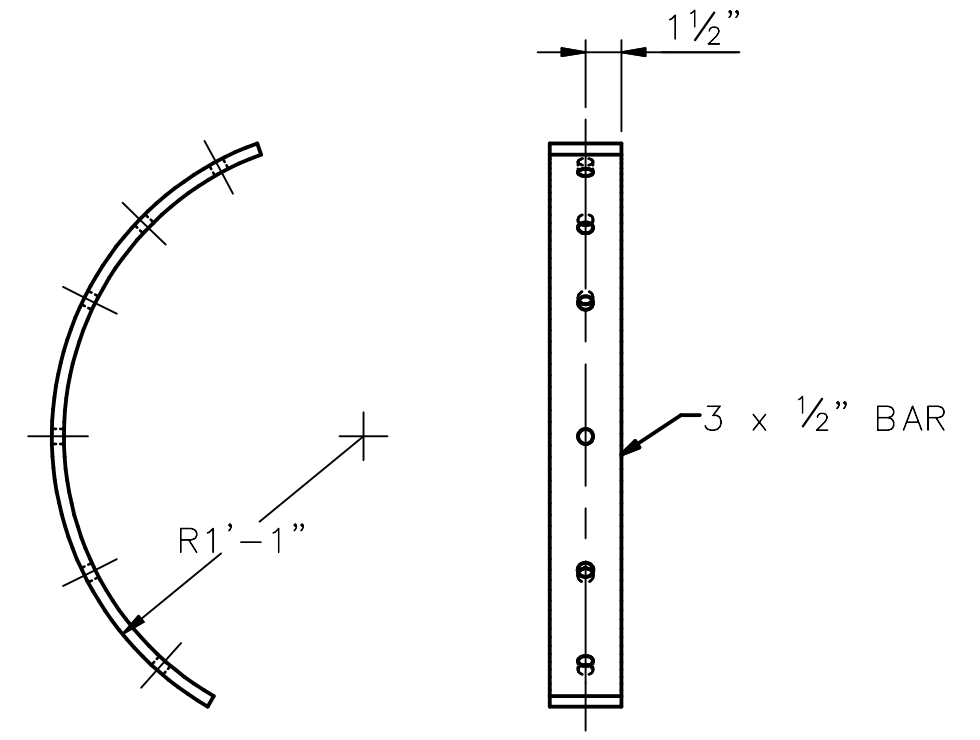
**PART** (7/37)  
SCALE: 3" = 1'-0"



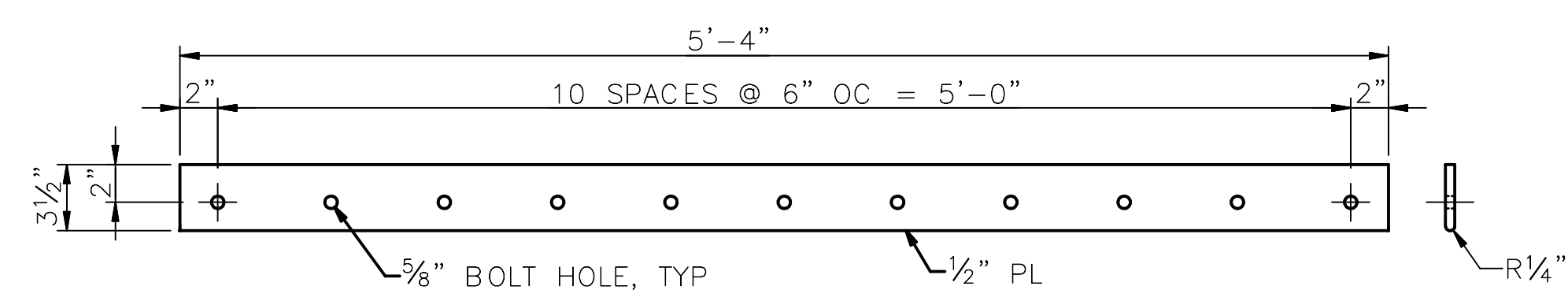
**HANGER** (8/37)  
SCALE: 3" = 1'-0"



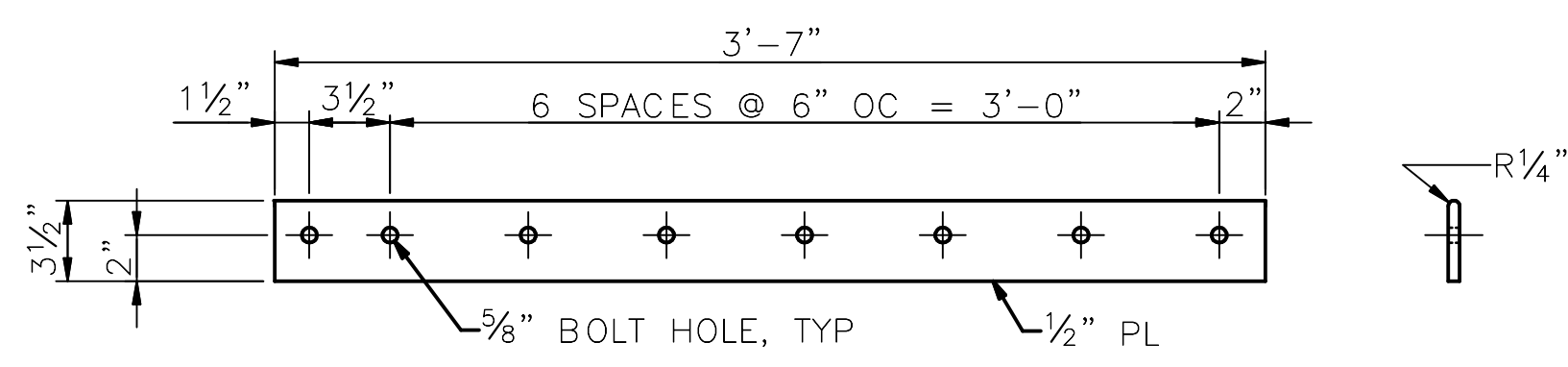
**HANGER** (9/36)  
SCALE: 3" = 1'-0"



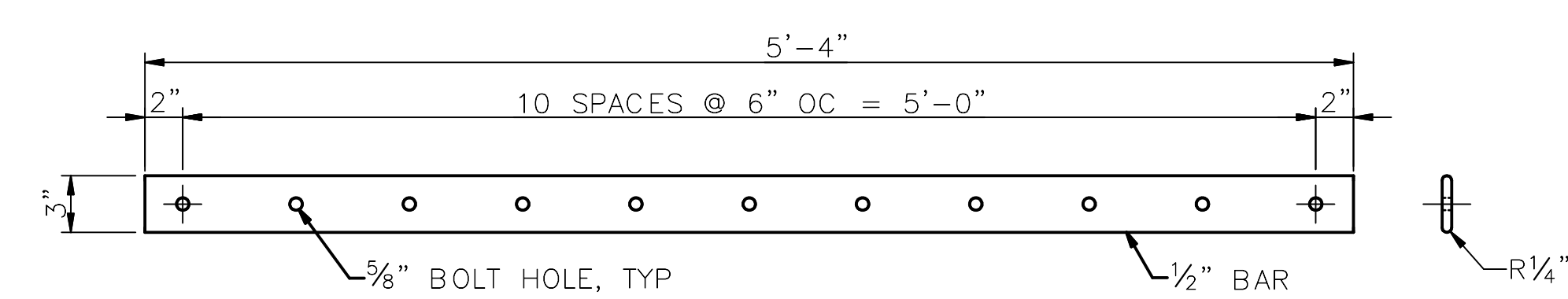
**CURVED MOUNTING BAR** (14/37)  
SCALE: 1 1/2" = 1'-0"



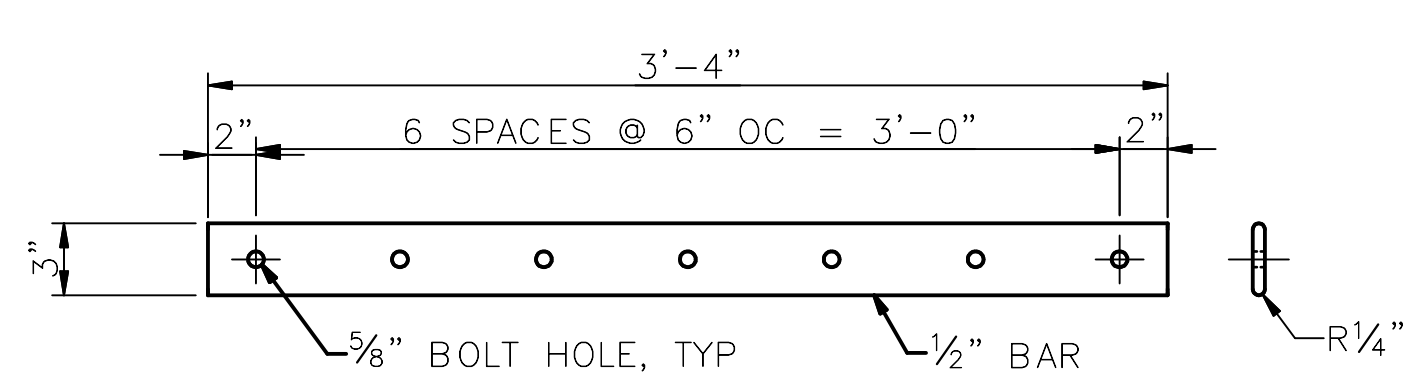
**INNER MOUNTING BAR** (10/37)  
SCALE: 1 1/2" = 1'-0"



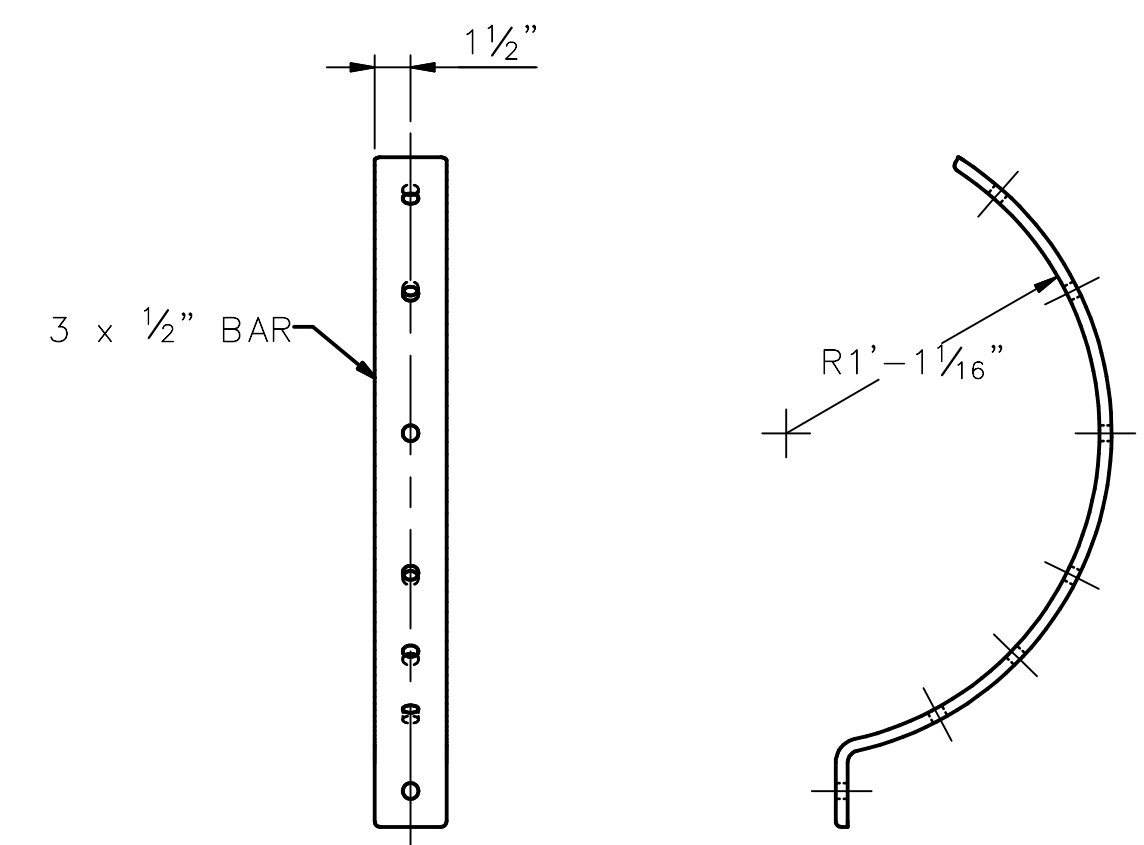
**OUTER MOUNTING BAR** (11/37)  
SCALE: 1 1/2" = 1'-0"



**INNER CLAMP BAR** (12/37)  
SCALE: 1 1/2" = 1'-0"



**OUTER CLAMP BAR** (13/37)  
SCALE: 1 1/2" = 1'-0"



**CURVED CLAMP BAR** (15/37)  
SCALE: 1 1/2" = 1'-0"

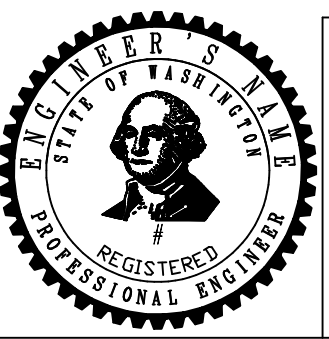
**90% SUBMITTAL (NOT FOR CONSTRUCTION)**

DEBRIS BOOM TYPICAL PONTOON COMPONENTS 1



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DESIGNED GC: [ ]  
CHECKED TB: [ ]  
DRAWN JC: [ ]  
CHECKED GC: [ ]



INITIALS AND DATE  
REVIEWED: [ ]  
DES. SDOT  
CONST. PROJ. MGR.  
RECEIVED  
REVISED AS BUILT

**Seattle Public Utilities**  
ORDINANCE NO. [ ] PW NO. [ ]  
SCALE: AS NOTED

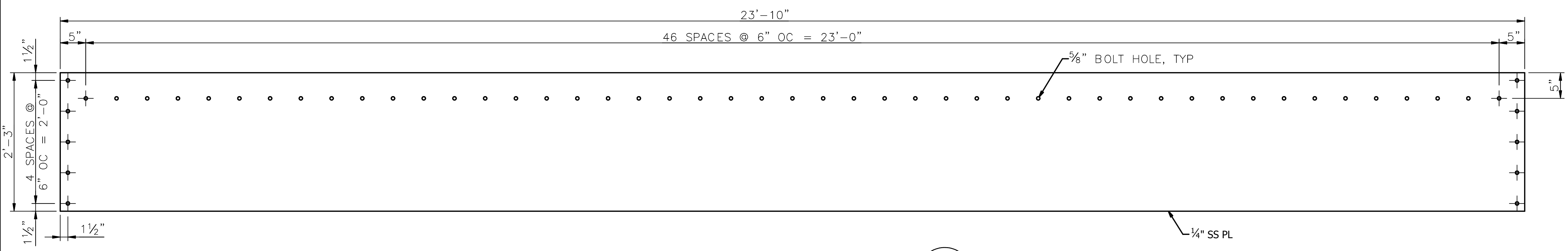
PC C117069  
CO  
VPI # 912-32  
**S-215**  
SHEET 38 OF XX

VAULT SERIAL #	DATE	MARK	NATURE	MADE CHG'D	REV'D
39810			REVISIONS		

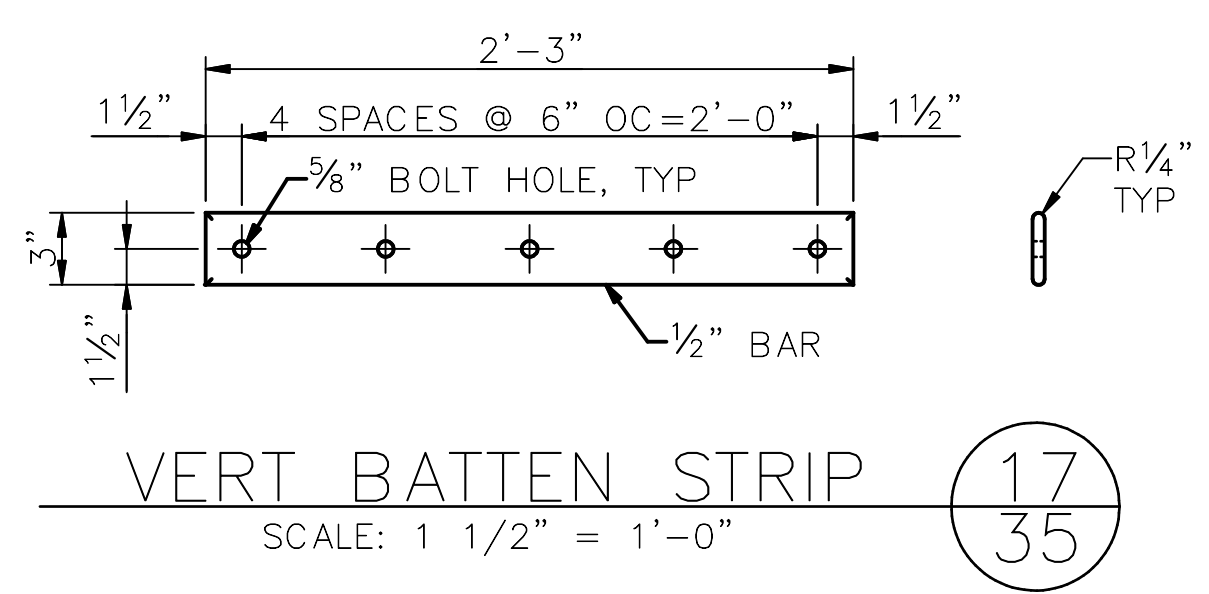
SDOT ##### SDOT #####

**SHEET NOTES:**

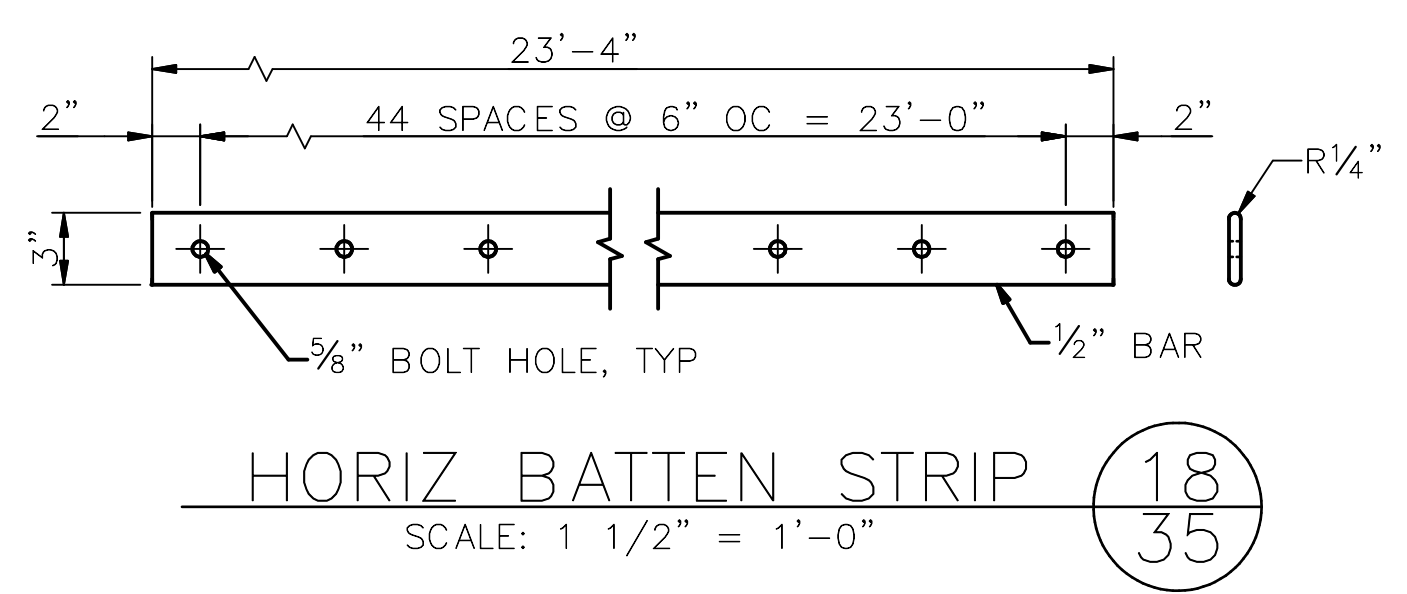
1. ALL MATERIAL SHALL BE A316 STAINLESS STEEL, UNO.



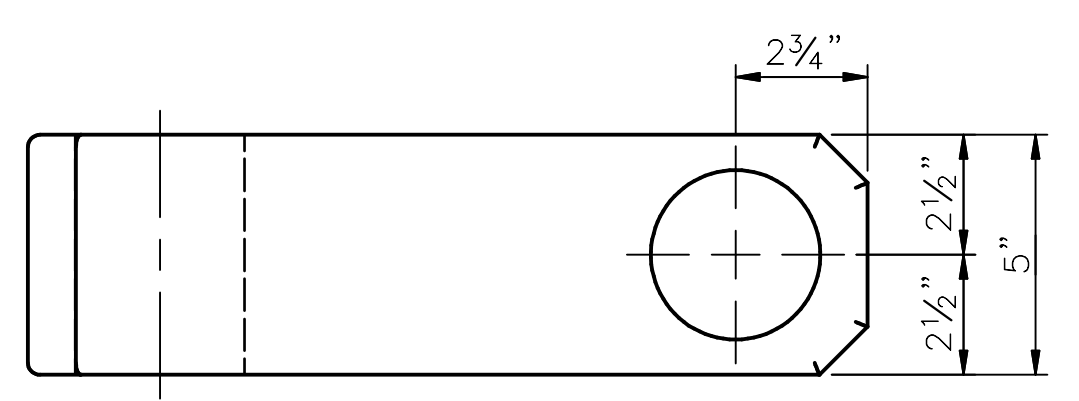
**DEBRIS CURTAIN** (16/35)  
SCALE: 1" = 1'-0"



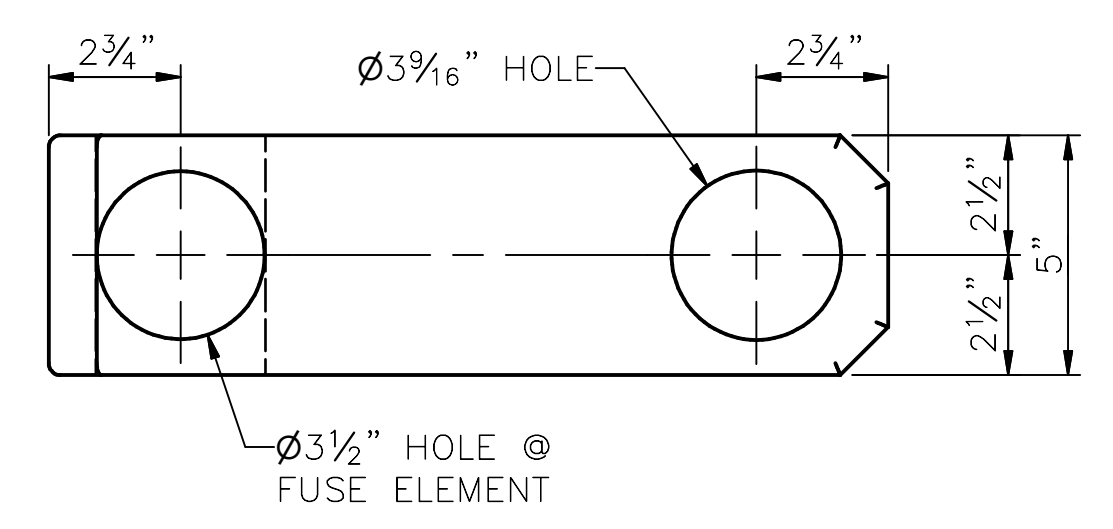
**VERT BATTEN STRIP** (17/35)  
SCALE: 1 1/2" = 1'-0"



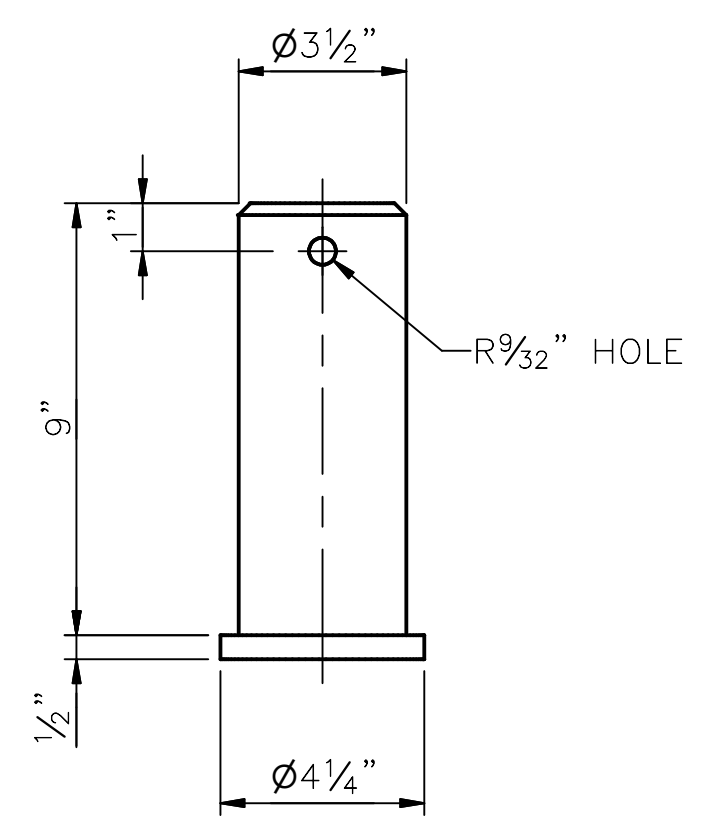
**HORIZ BATTEN STRIP** (18/35)  
SCALE: 1 1/2" = 1'-0"



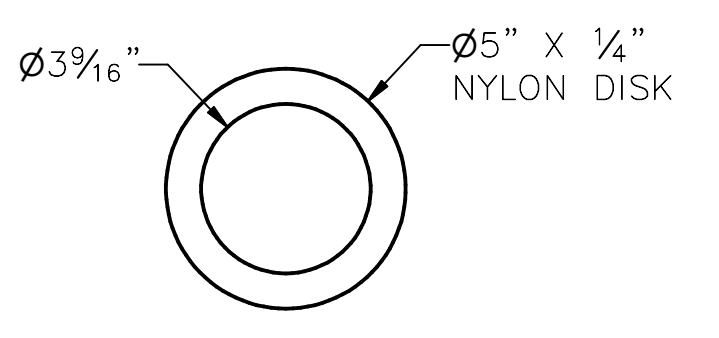
**COUPLER** (23/34)  
SCALE: 3" = 1'-0"



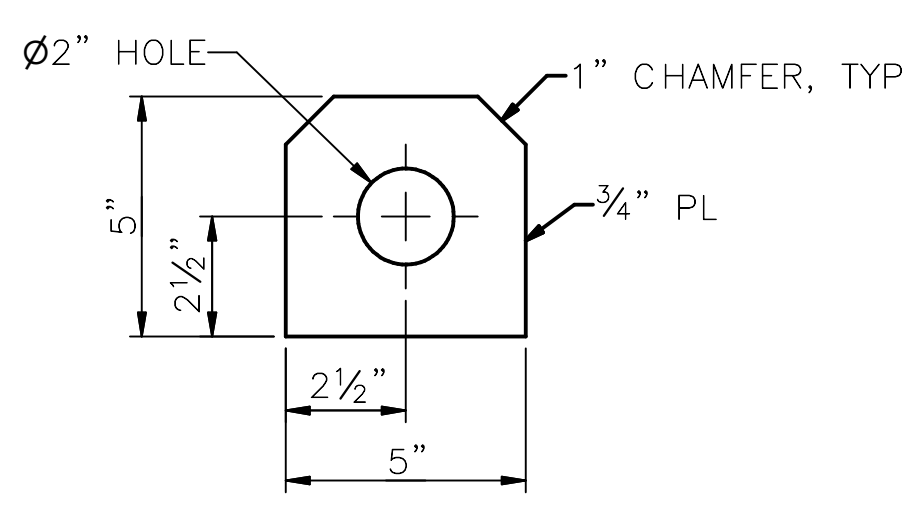
**FUSE COUPLER** (24/33)  
SCALE: 3" = 1'-0"



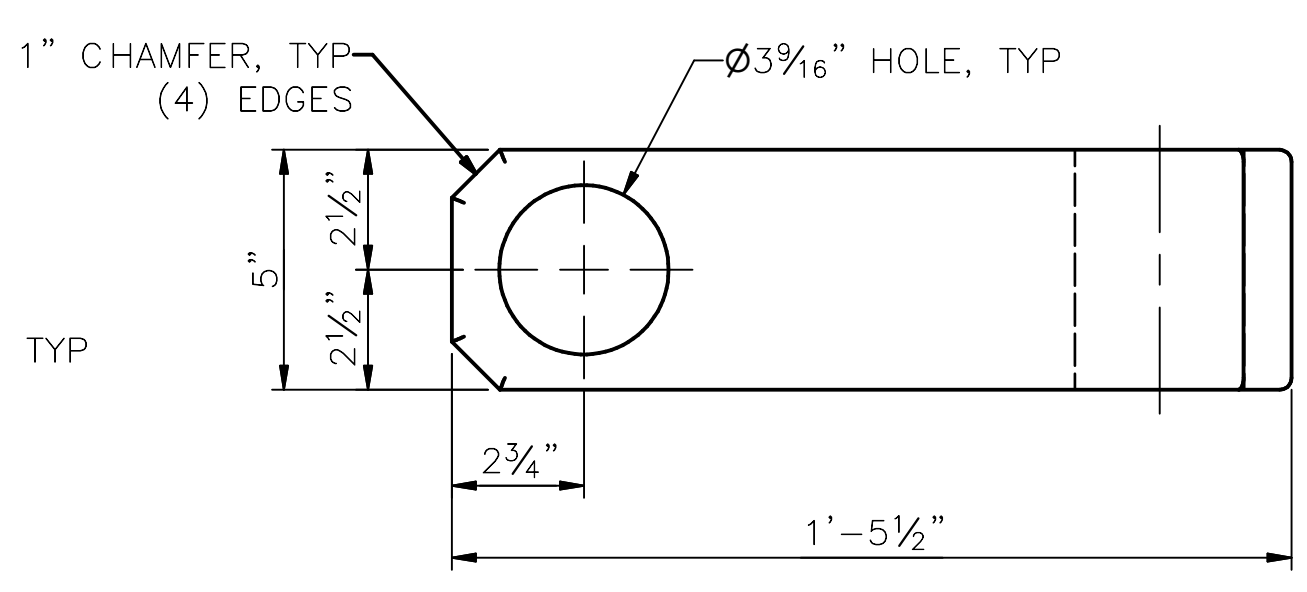
**COUPLER PIN** (19/34)  
SCALE: 3" = 1'-0"



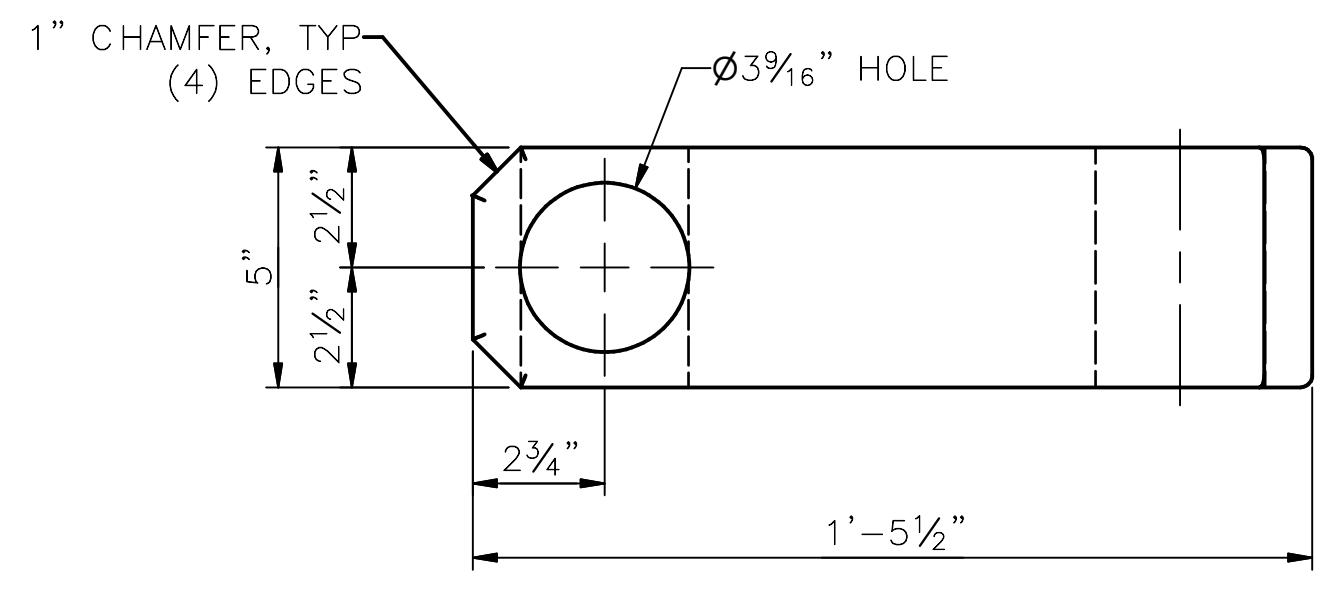
**NYLON DISK** (20/34)  
SCALE: 3" = 1'-0"



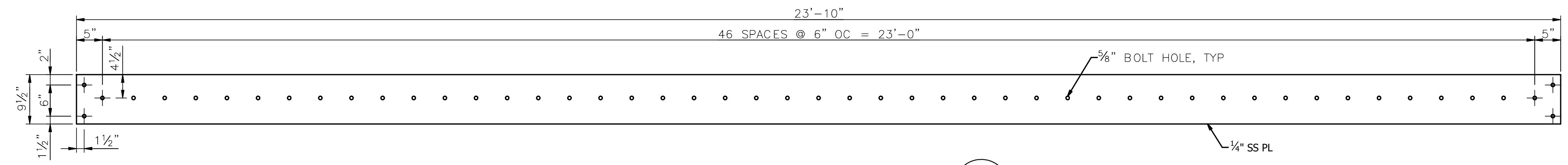
**LIFTING EYE** (21/35)  
SCALE: 3" = 1'-0"



**COUPLER** (23/34)  
SCALE: 3" = 1'-0"



**FUSE COUPLER** (24/33)  
SCALE: 3" = 1'-0"



**CSPE HANGER PLATE** (22/36)  
SCALE: 1" = 1'-0"

**90% SUBMITTAL (NOT FOR CONSTRUCTION)**

DEBRIS BOOM TYPICAL PONTOON COMPONENTS 2

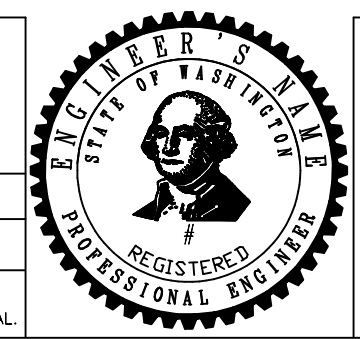


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CHECKED TB  
DRAWN JC  
CHECKED GC

INITIALS AND DATE  
REVIEWED: DES. SDOT  
CONST. PROJ. MGR.  
RECEIVED  
REVISED AS BUILT

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ORDINANCE NO. PW NO.  
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SOUTH FORK TOLT RESERVOIR DEBRIS BOOM REPLACEMENT

PC C117069  
JOB CO  
VPI # 912-32  
**S-216**  
SHEET 39 OF XX

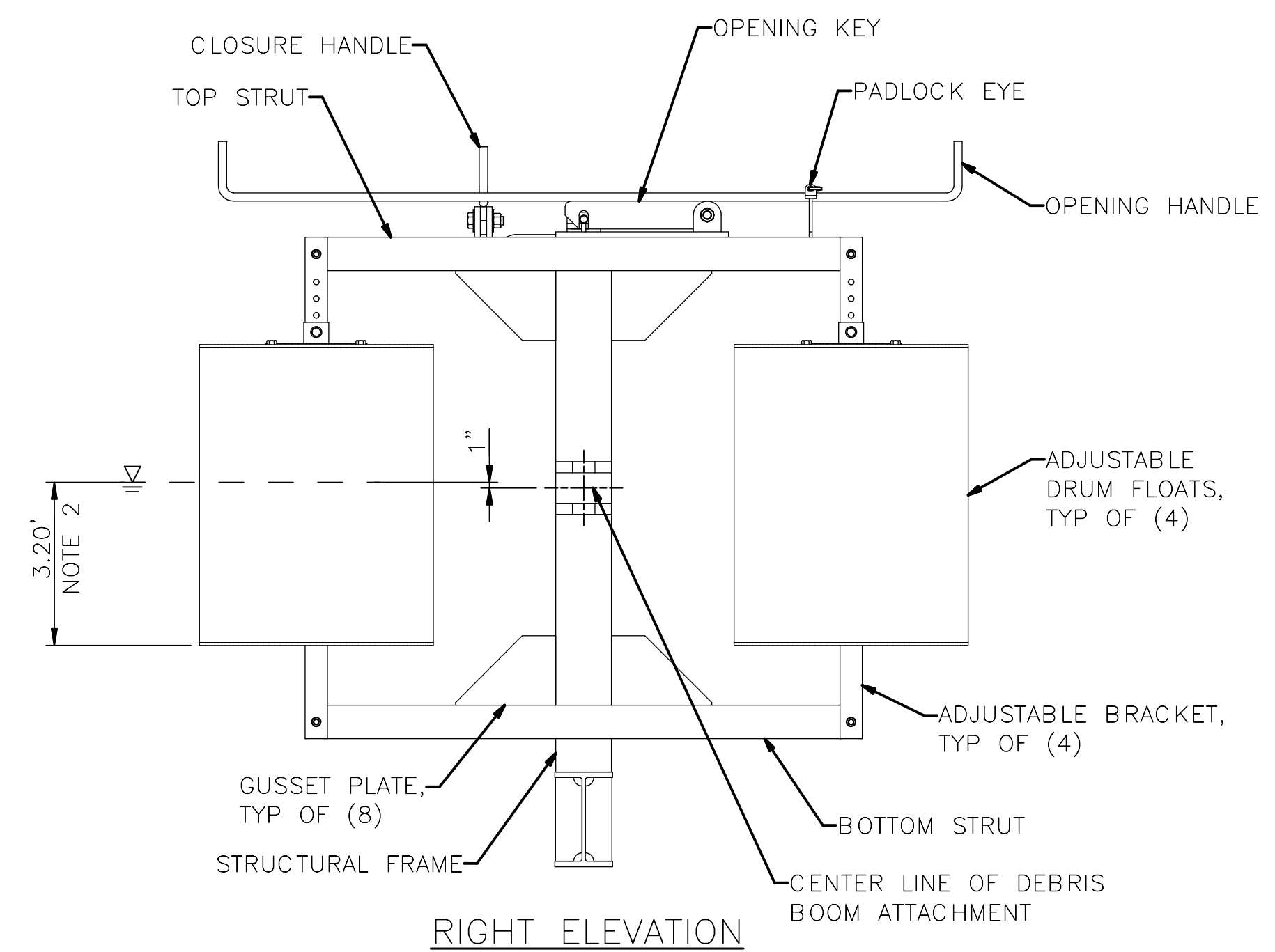
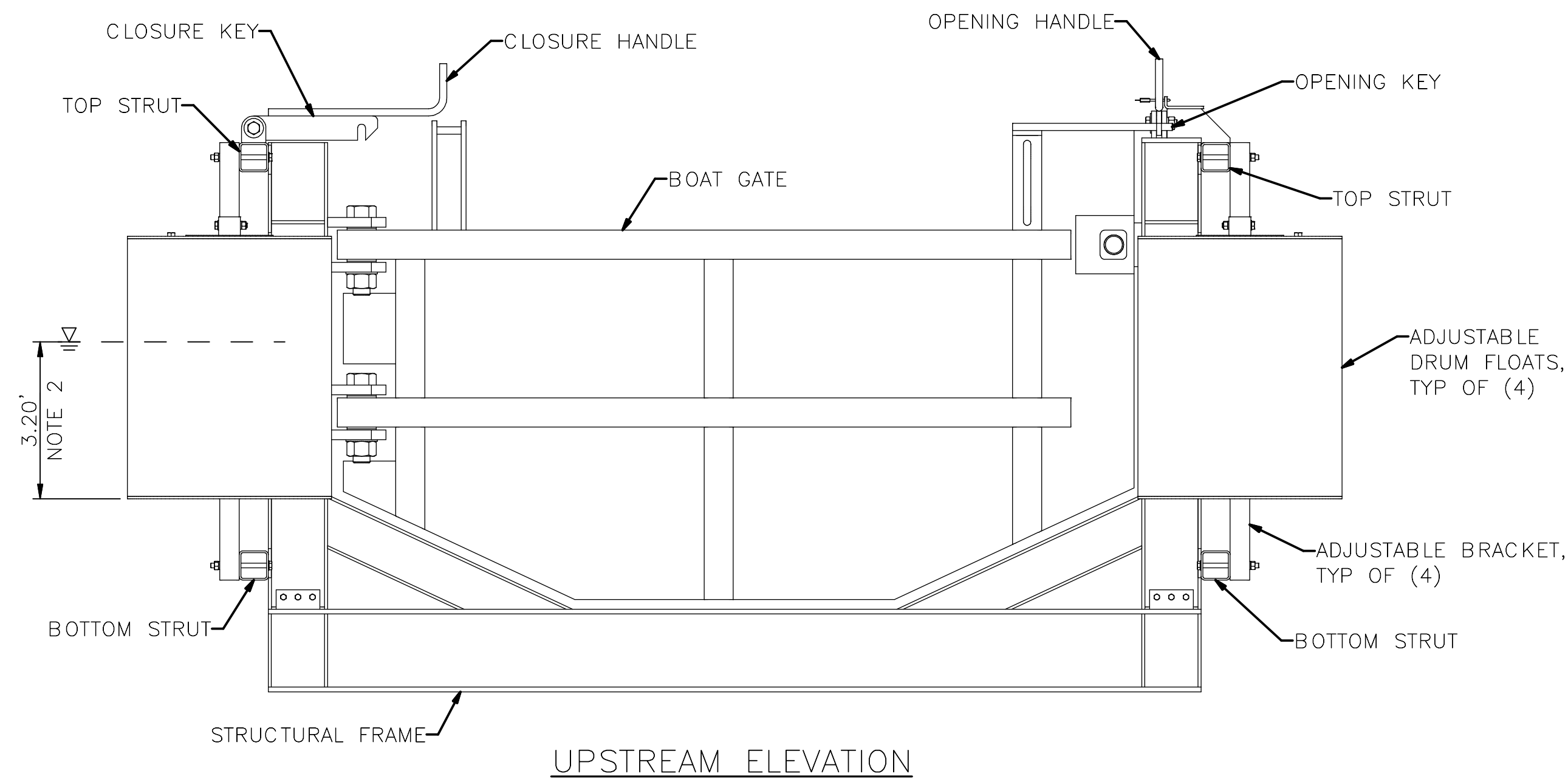
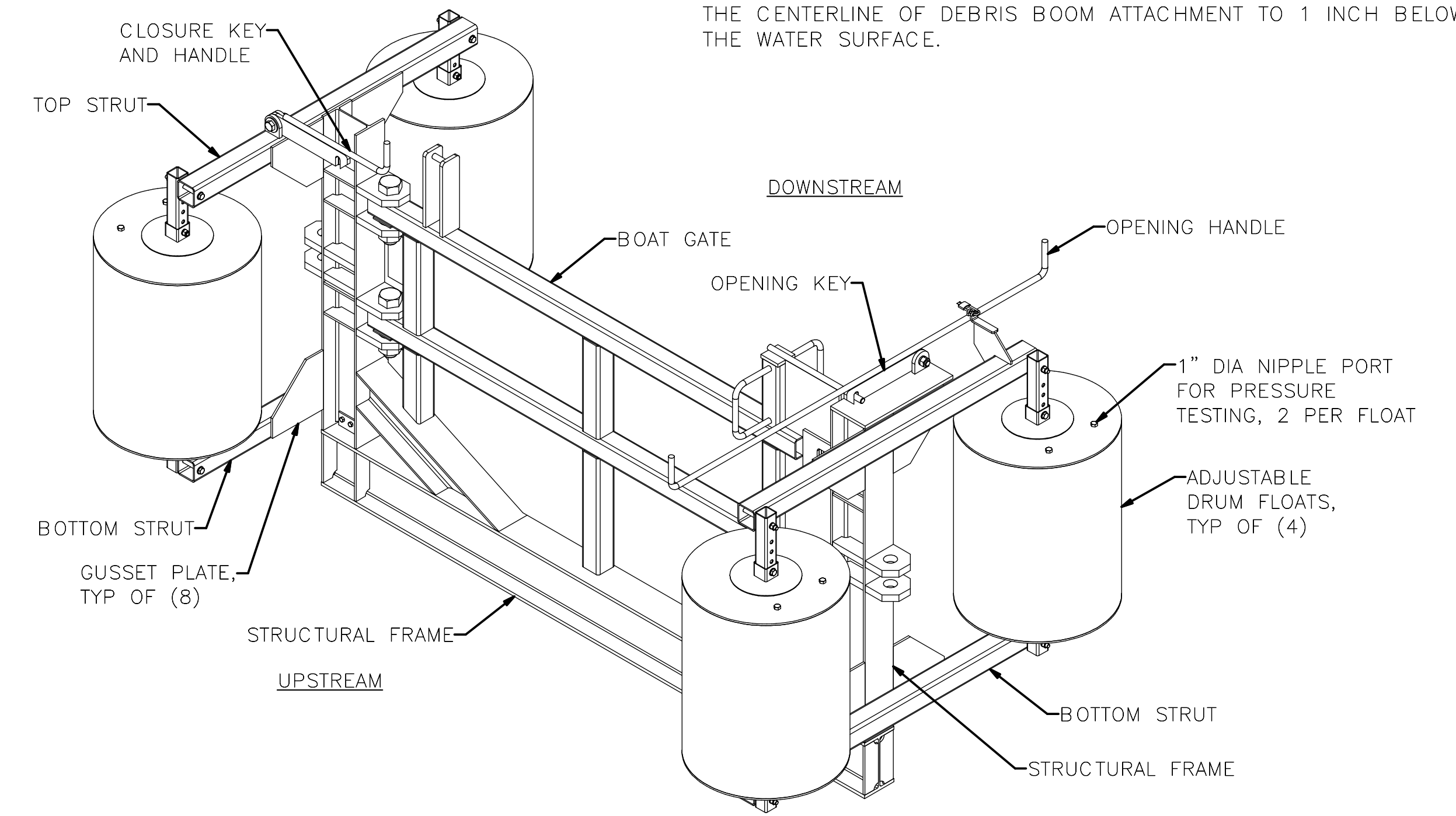
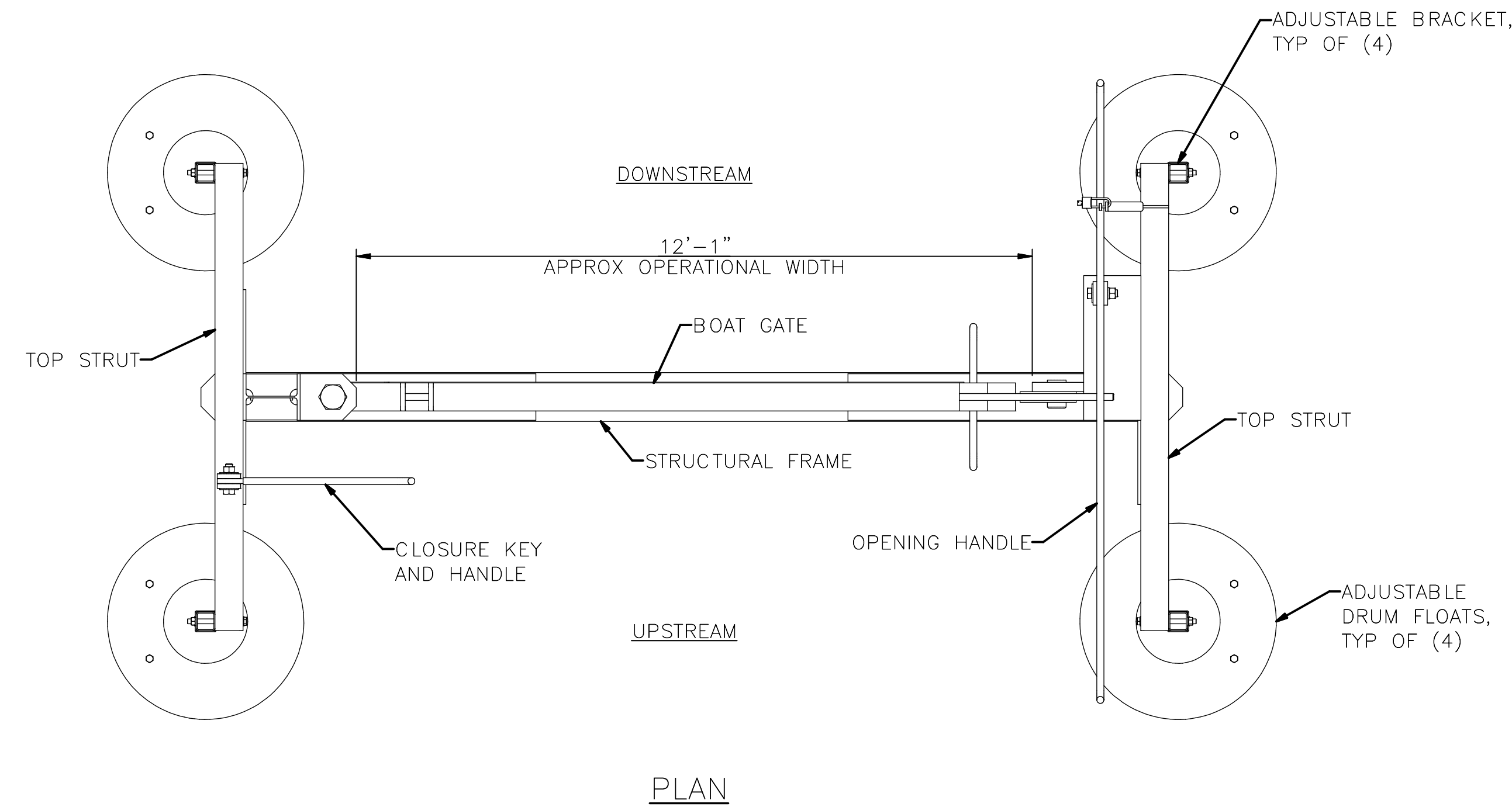
MADE/CHK'D	REV'D
NATURE	REVISIONS
DATE	MARK
Vault Serial #	38810

SDOT #####



SHEET NOTES:

1. ALL MATERIAL, INCLUDING FASTENERS, SHALL BE A316 STAINLESS STEEL, UNO.
2. THE EXPECTED DRAFT FOR THE BOAT GAE ASSEMBLY IS 3.20FT. THE DRUM FLOATS MAY BE FIELD ADJUSTED AS REQUIRED TO MAINTAIN THE CENTERLINE OF DEBRIS BOOM ATTACHMENT TO 1 INCH BELOW THE WATER SURFACE.



BOAT GATE ASSEMBLY

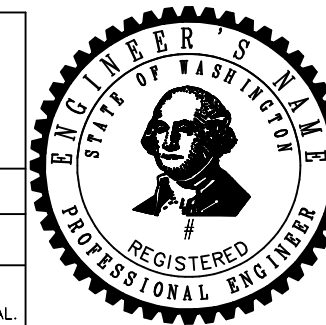
SCALE: 1/2" = 1'-0"

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SEATTLE, WASHINGTON 20

INITIALS AND DATE	INITIALS AND DATE
DESIGNED GC CHECKED TB	REVIEWED: DES. SDOT CONST. PROJ. MGR.
DRAWN JC CHECKED GC	RECEIVED
	REVISED AS BUILT
ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE CITY OF SEATTLE STANDARD PLANS AND SPECIFICATIONS AND OTHER DOCUMENTS CALLED FOR IN SECTION 0-02.3 OF THE PROJECT MANUAL.	



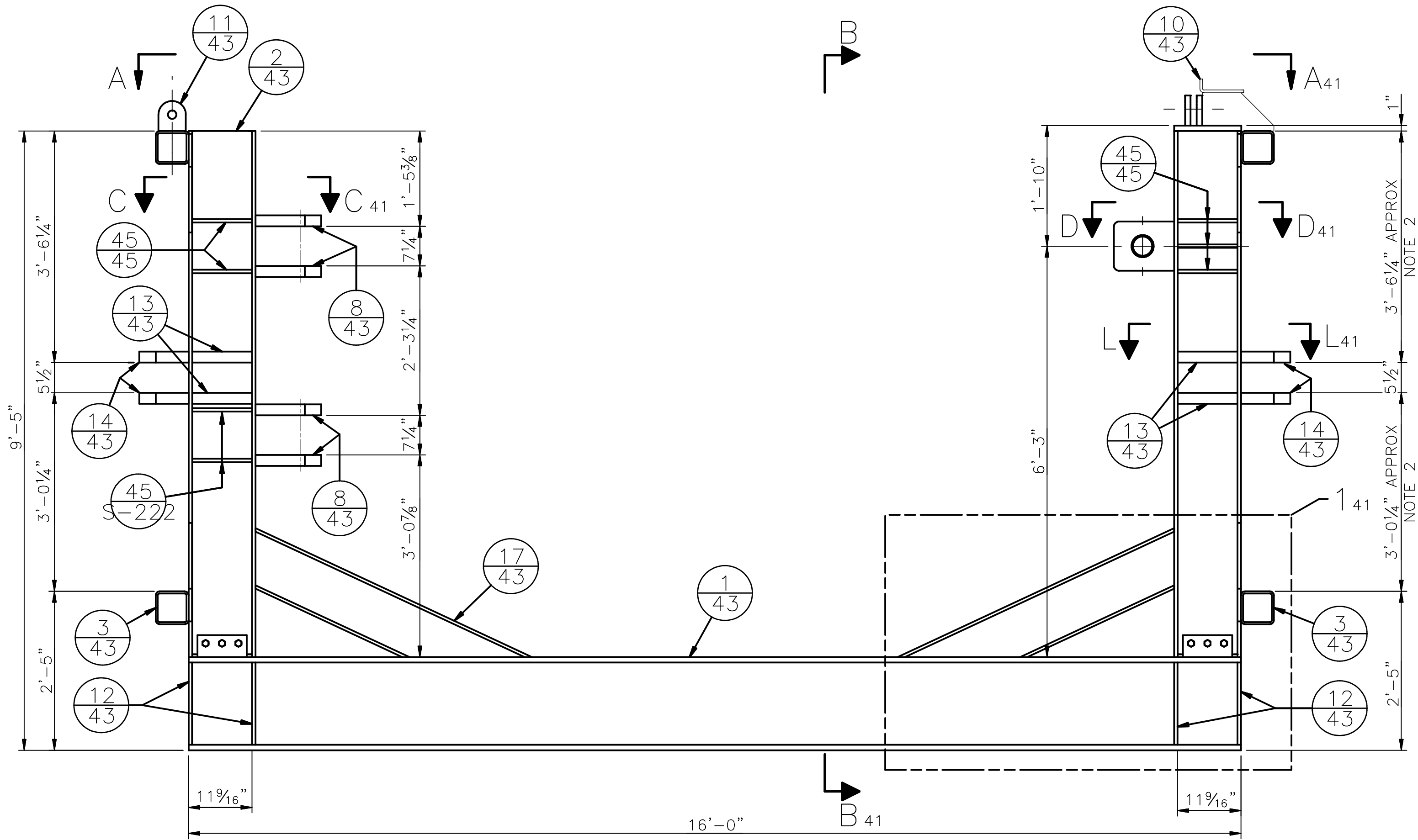
**Seattle Public Utilities**  
ORDINANCE NO. PW NO.  
SCALE: AS NOTED

DEBRIS BOOM BOAT GATE ASSEMBLY  
SOUTH FORK TOLT RESERVOIR DEBRIS BOOM REPLACEMENT  
PC C117069  
VPI # 912-32  
**S-217**  
SHEET 40 OF XX

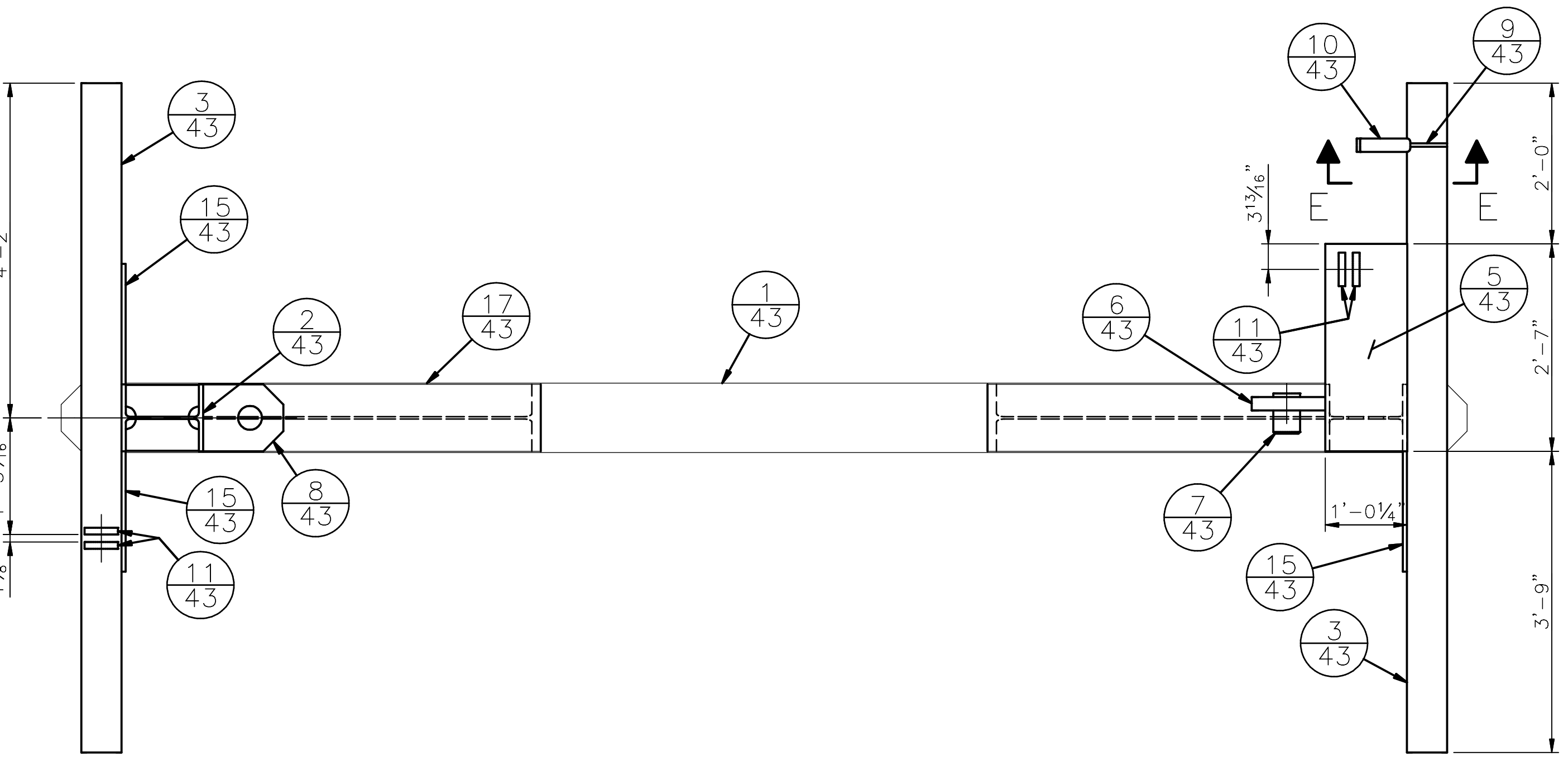
MADE/CHK'D	REV'D
NATURE	REVISIONS
DATE	MARK
Vault Serial #	38810

SDOT #####

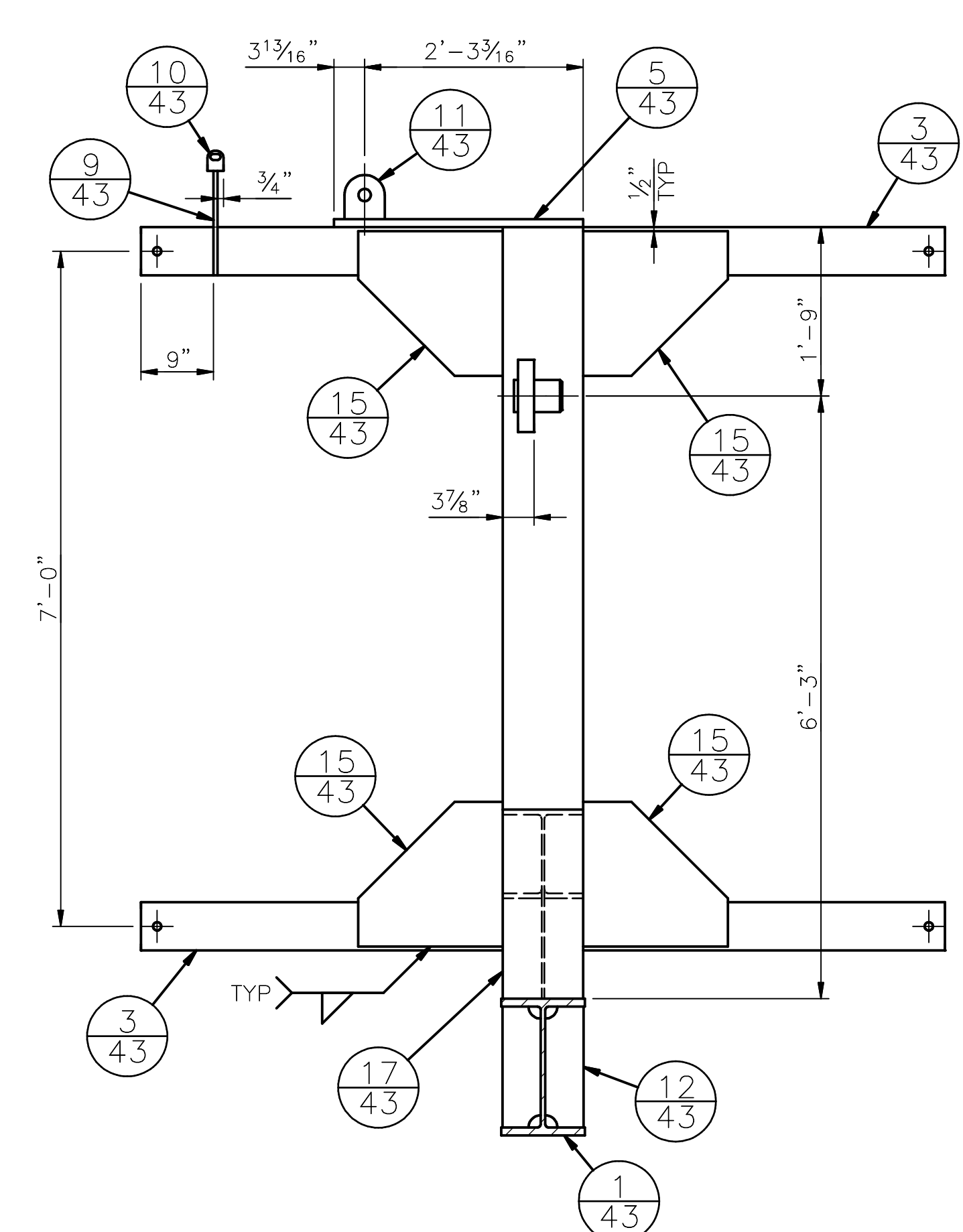
REVISIONS	NATURE	DATE	MARK	MADE	CHK'D	REV'D



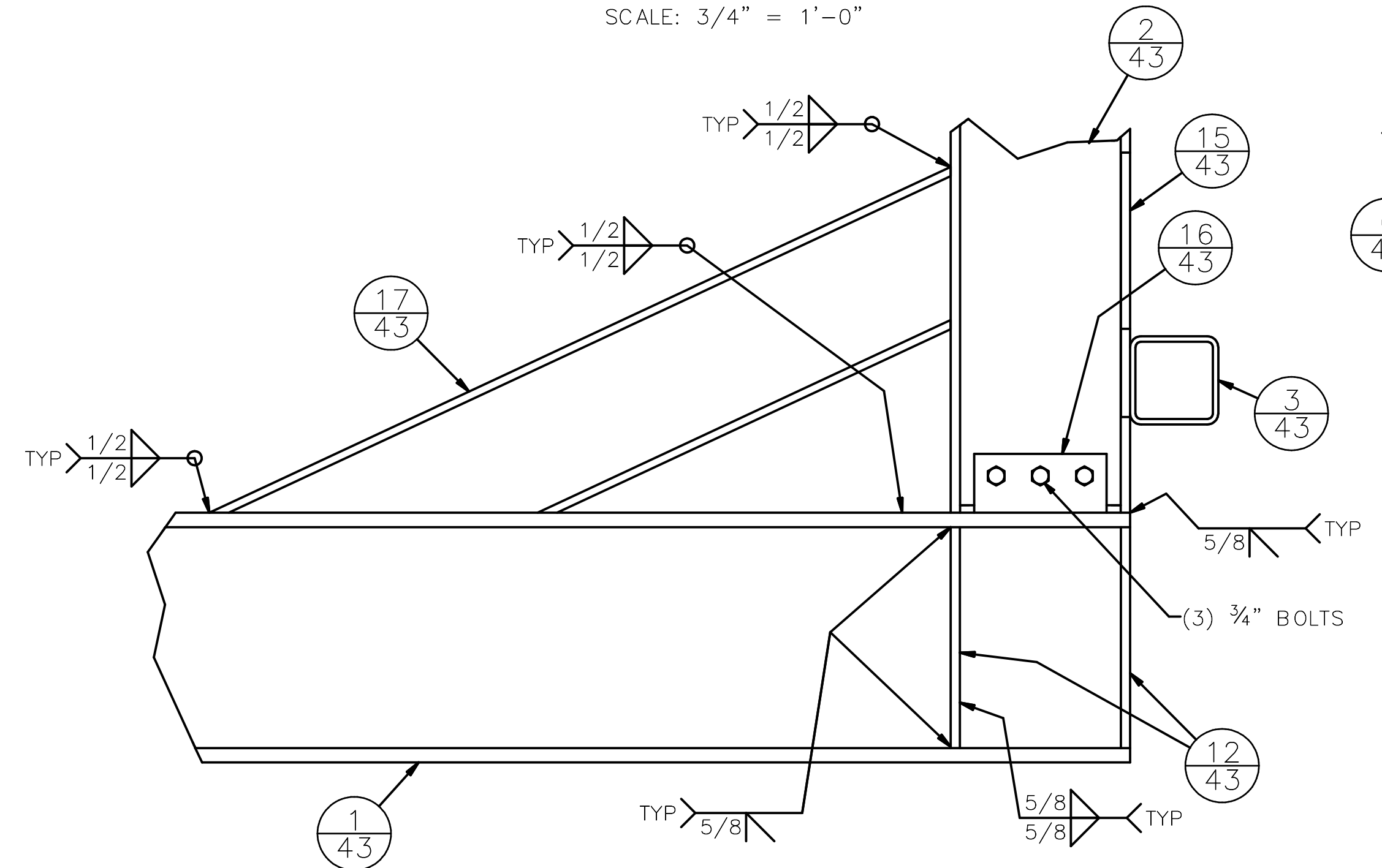
**FRAME WELDMENT**  
SCALE: 3/4" = 1'-0"



**VIEW A-A** 41  
SCALE: 3/4" = 1'-0"

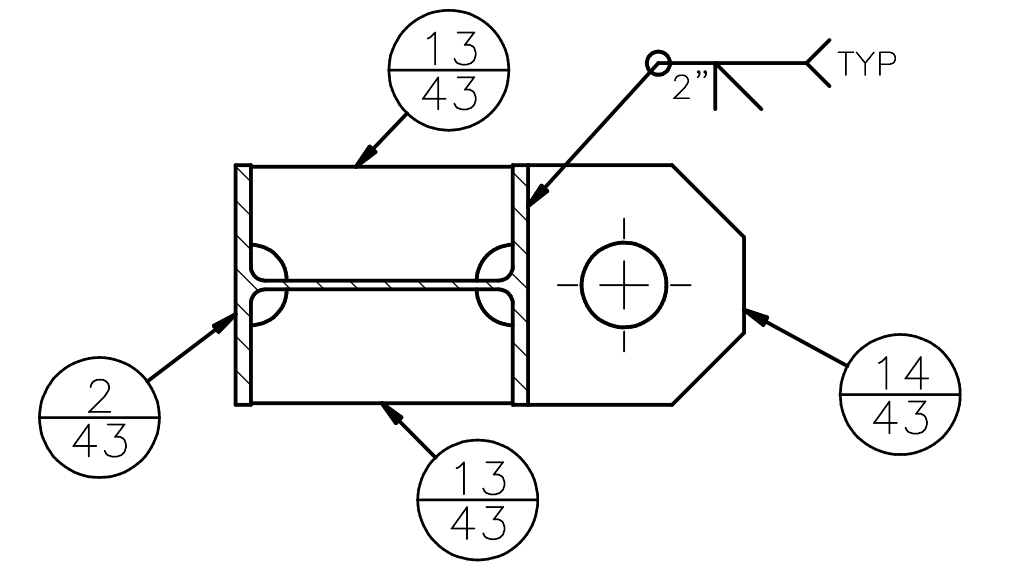


**SECTION B-B** 41  
SCALE: 3/4" = 1'-0"

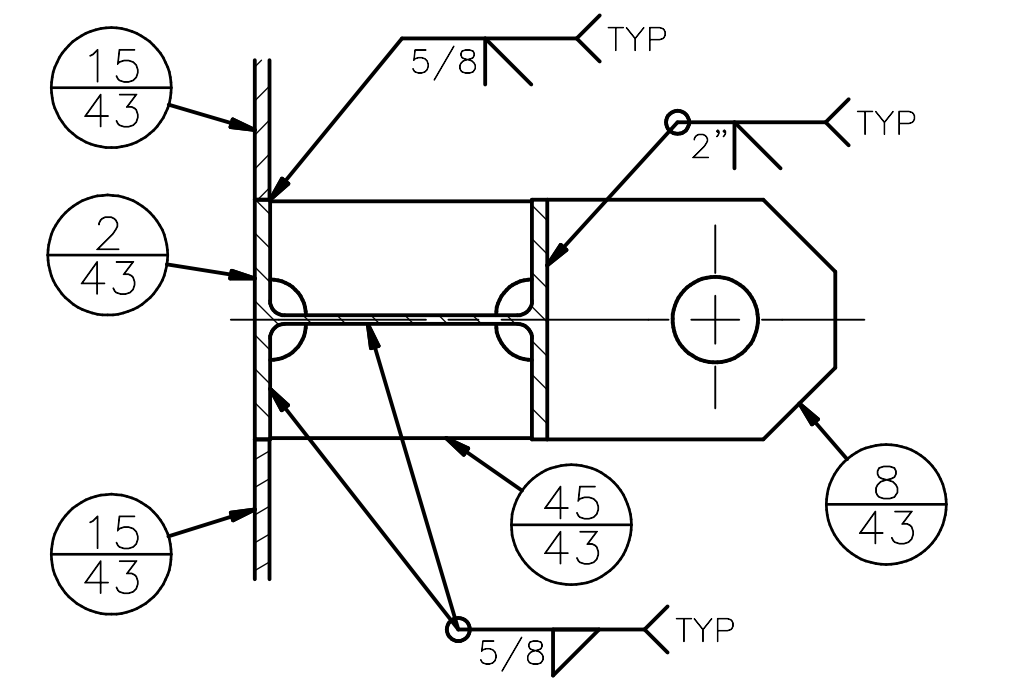


**DETAIL 1** 41  
SCALE: 1 1/2" = 1'-0"

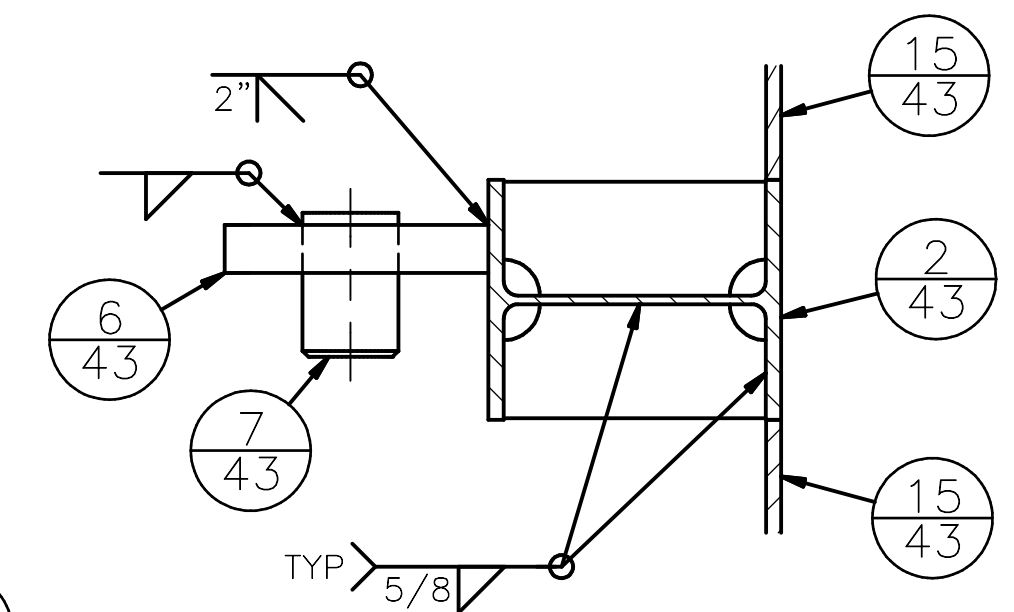
**SHEET NOTES:**  
1. ALL MATERIAL SHALL BE A316 STAINLESS STEEL, UNO.  
2. ELEVATION OF COUPLER ATTACHMENT SHALL BE DETERMINED AFTER DRAFT OF BOAT GATE HAS BEEN VERIFIED.



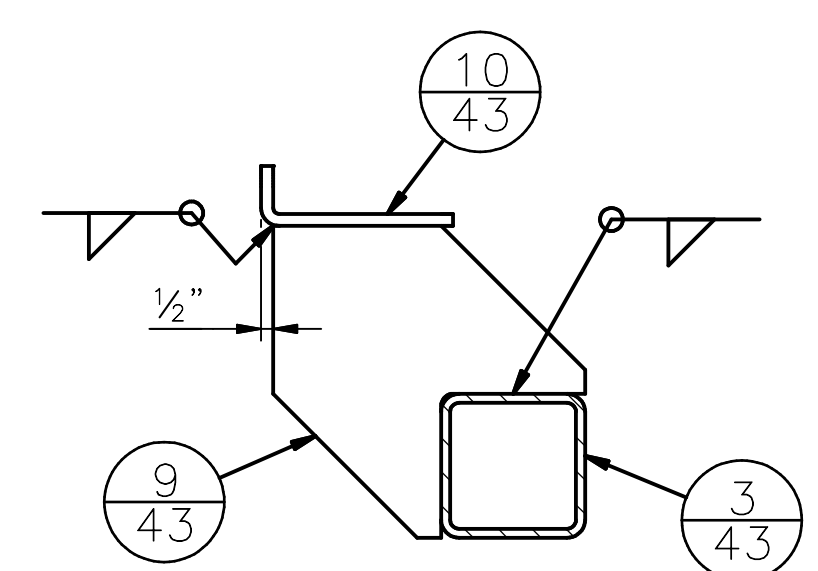
**SECTION L-L** 41  
SCALE: 1 1/2" = 1'-0"



**SECTION C-C** 41  
SCALE: 1 1/2" = 1'-0"



**SECTION D-D**  
SCALE: 1 1/2" = 1'-0"



**SECTION E-E** 41  
SCALE: 1 1/2" = 1'-0"

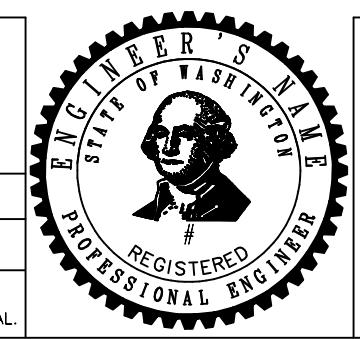
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DRAWN JC CHECKED GC	RECEIVED
BY: CITY PURCHASING & CONTRACTING SERVICES DIRECTOR	REVISED AS BUILT

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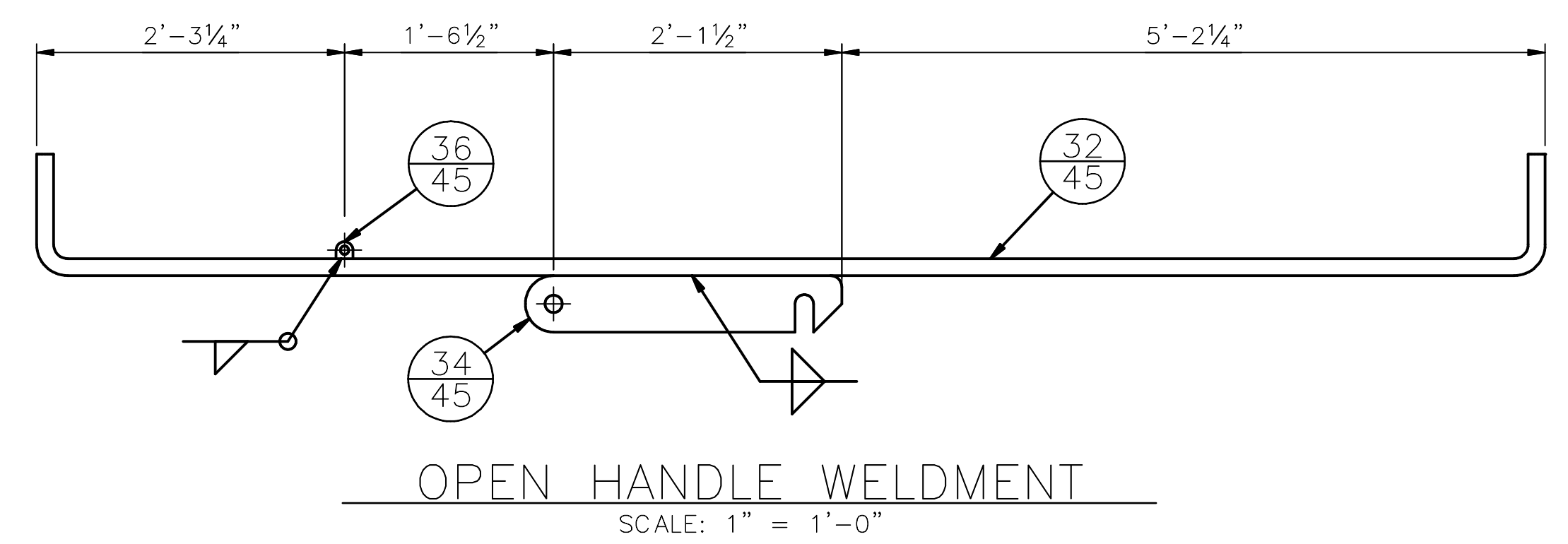
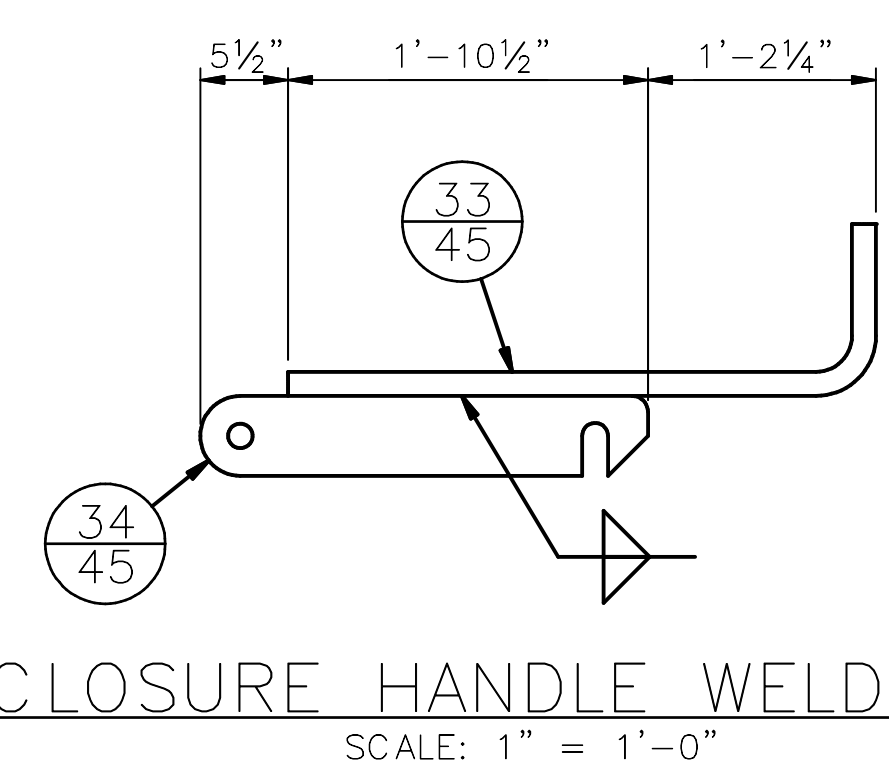
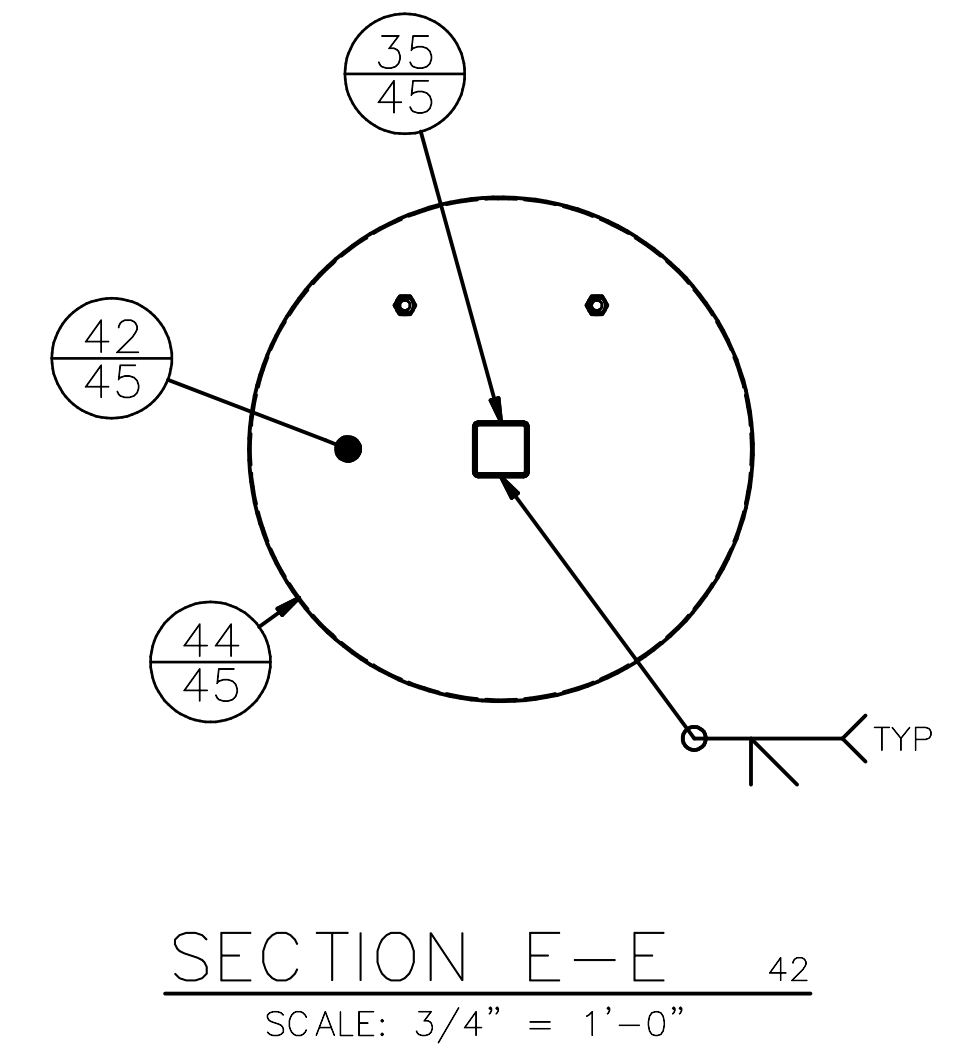
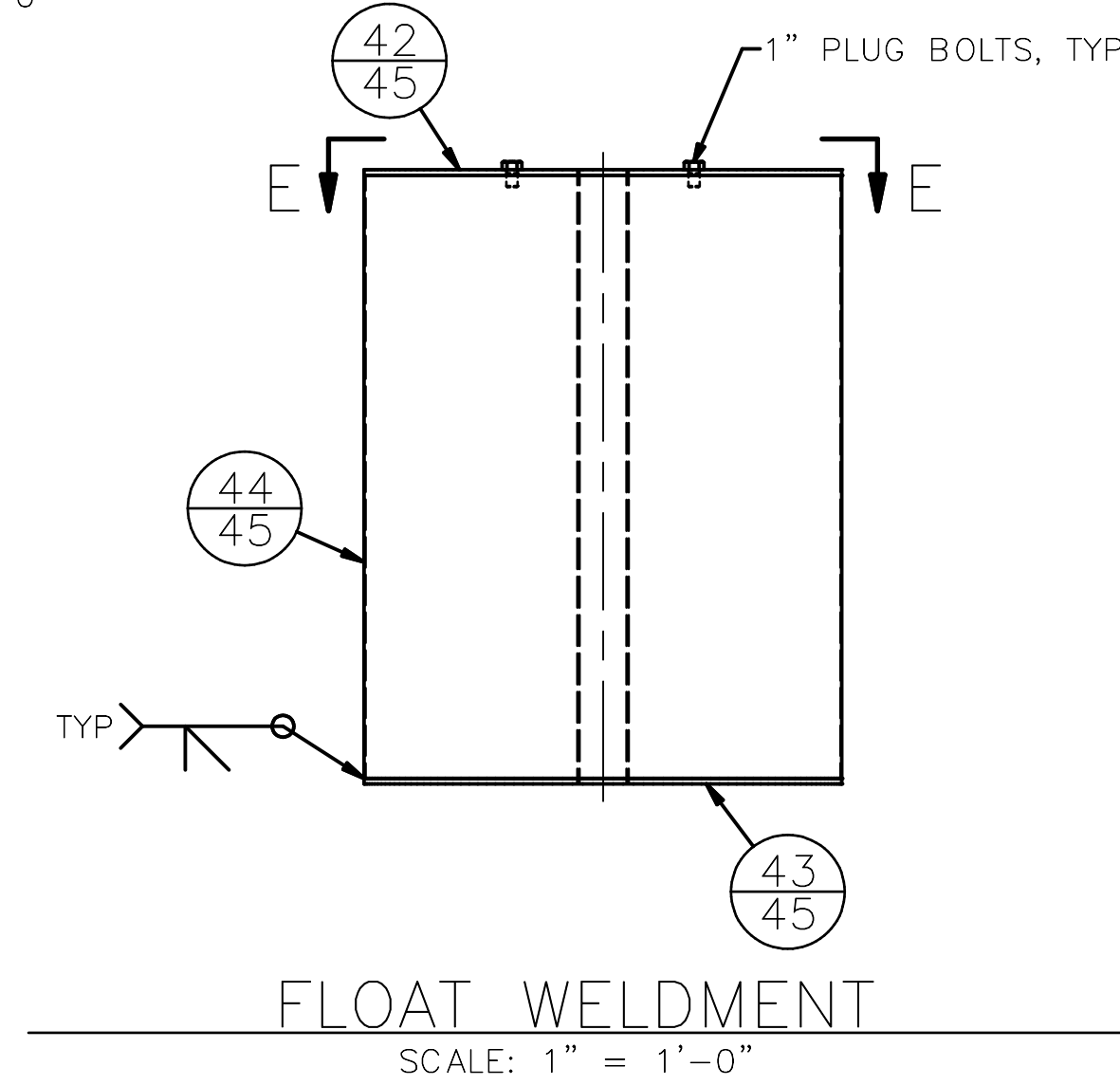
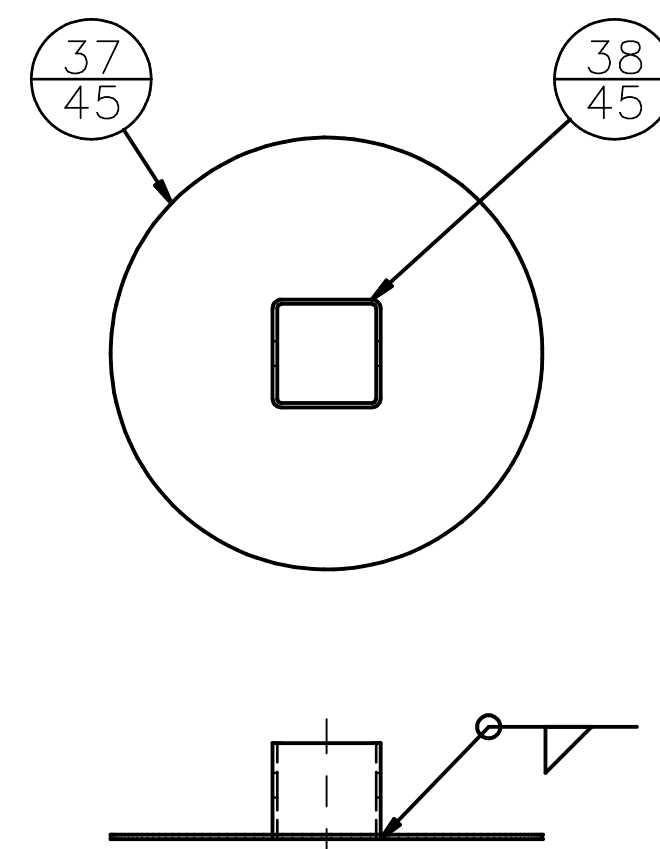
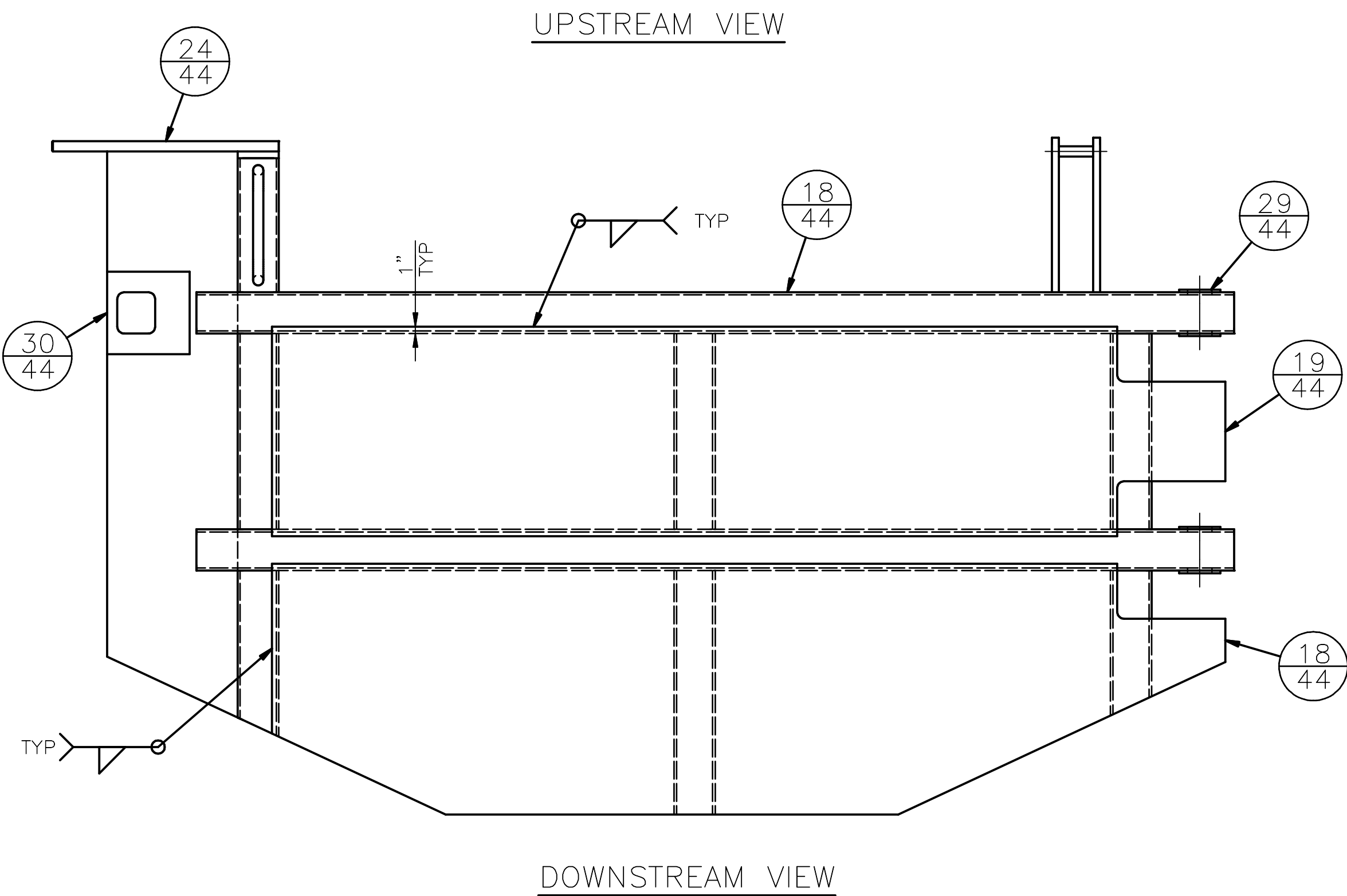
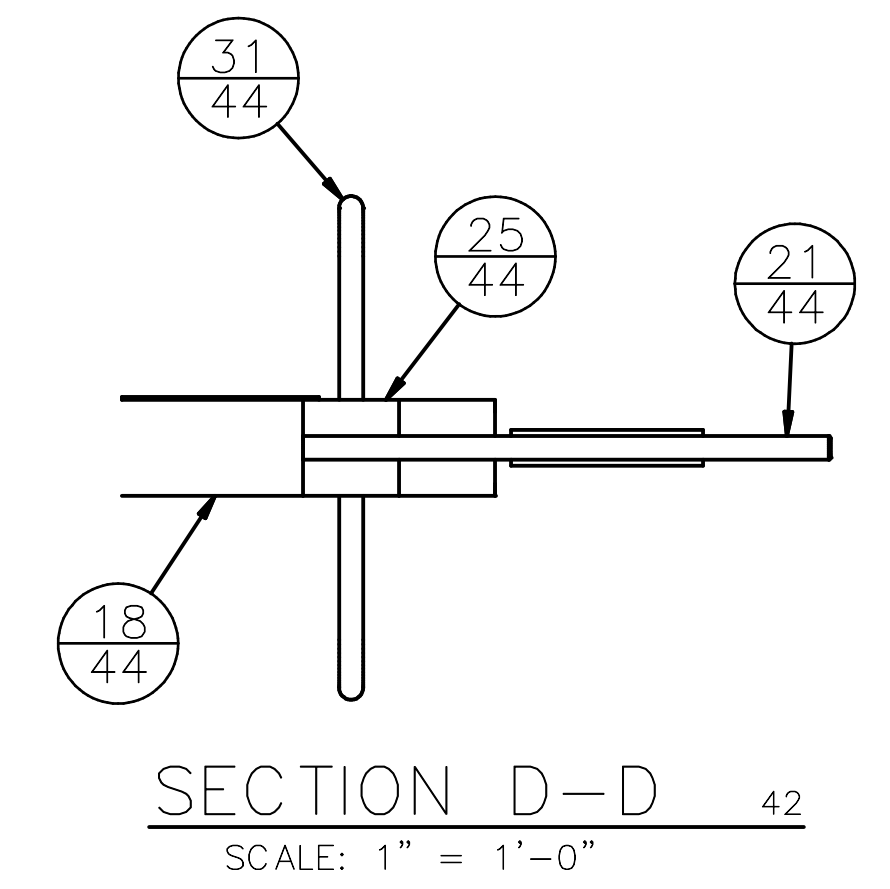
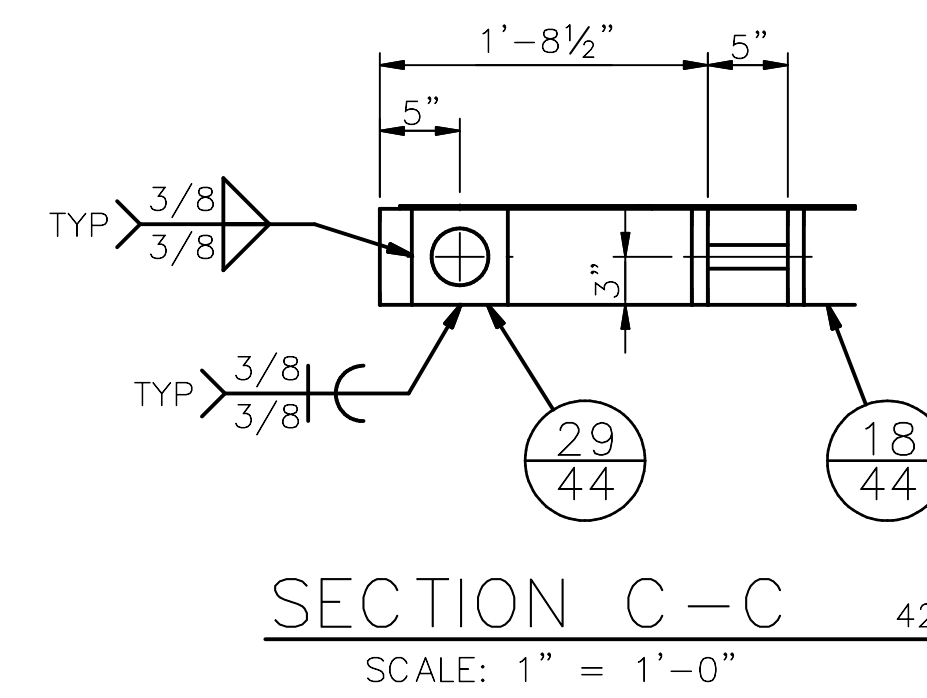
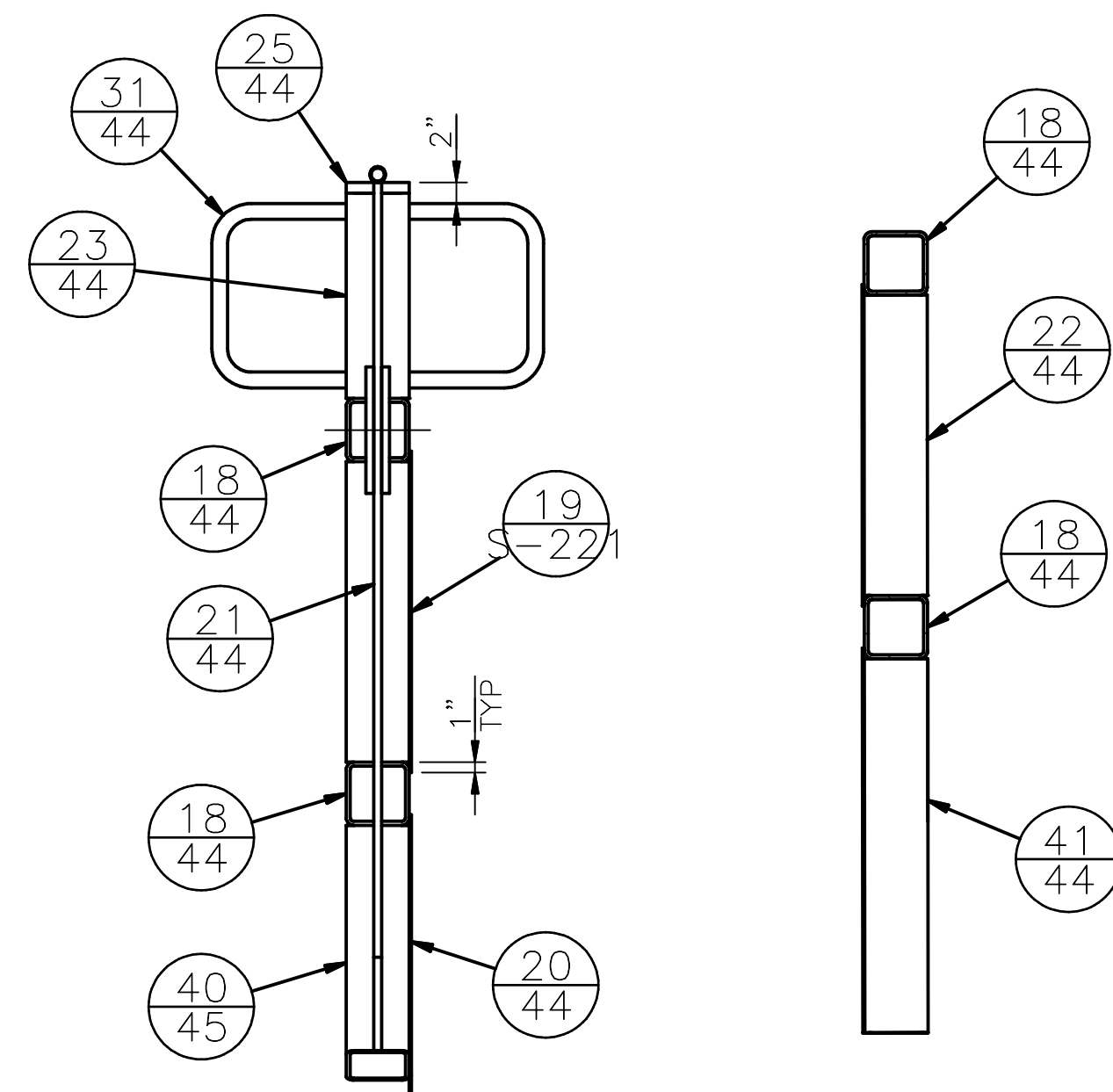
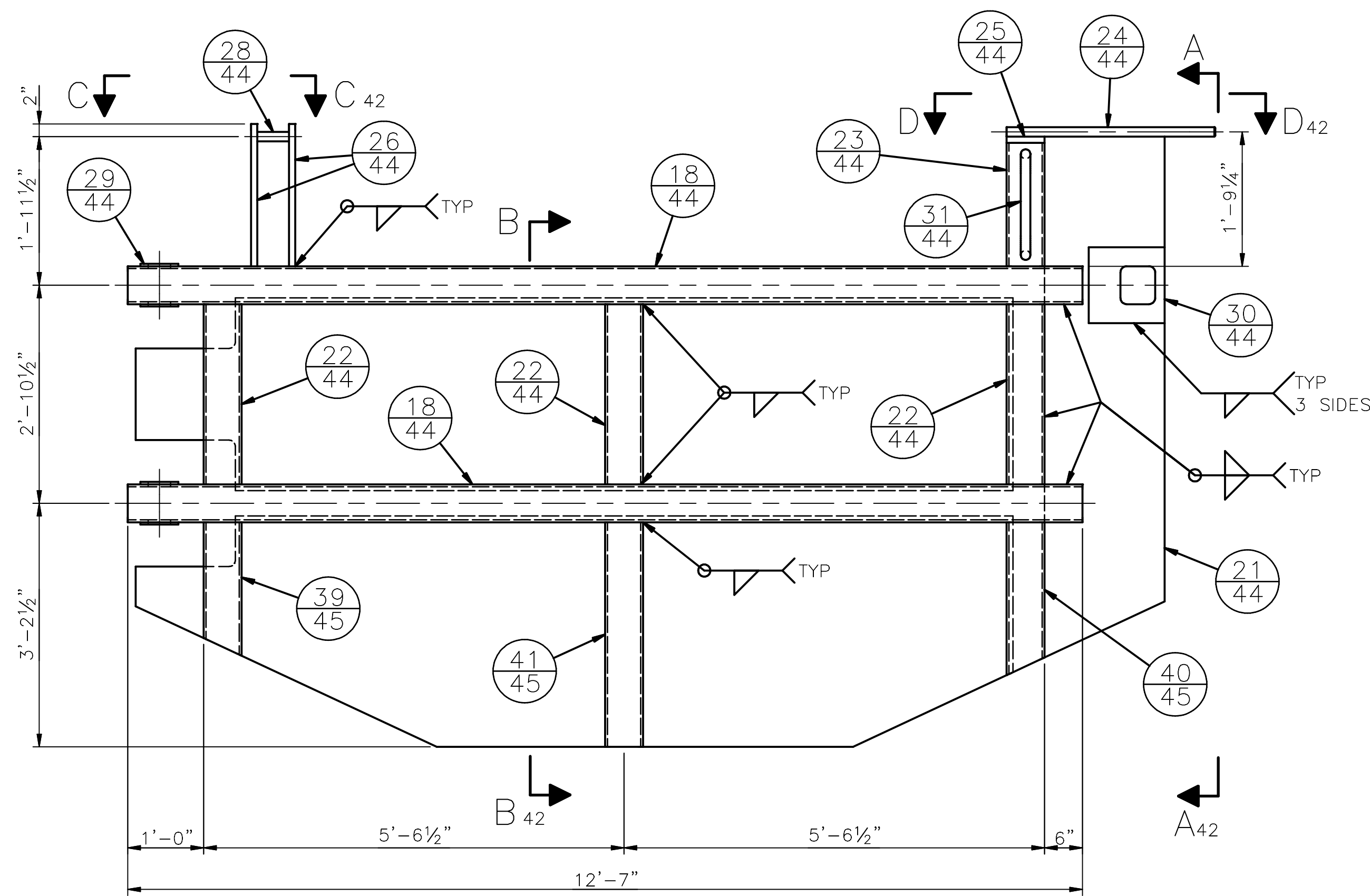
**Seattle Public Utilities**  
ORDINANCE NO. PW NO.  
SCALE: AS NOTED

DEBRIS BOOM BOAT GATE WELDMENT 1  
SOUTH FORK TOLT RESERVOIR DEBRIS BOOM REPLACEMENT  
PC C117069  
VPI # 912-32  
**S-218**  
SHEET 41 OF XX

SDOT #####

**SHEET NOTES:**

1. ALL MATERIAL SHALL BE A316 STAINLESS STEEL, UNO.



NO.	DATE	MARK	NATURE	REVISIONS
1			MADE ICH'D	REV'D
VAILT. SERIAL # 38810				

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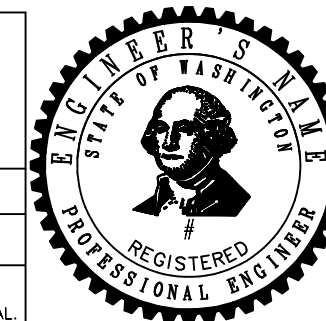


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**Seattle Public Utilities**

ORDINANCE NO. PW NO.

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DEBRIS BOOM BOAT GATE WELDMENT 2

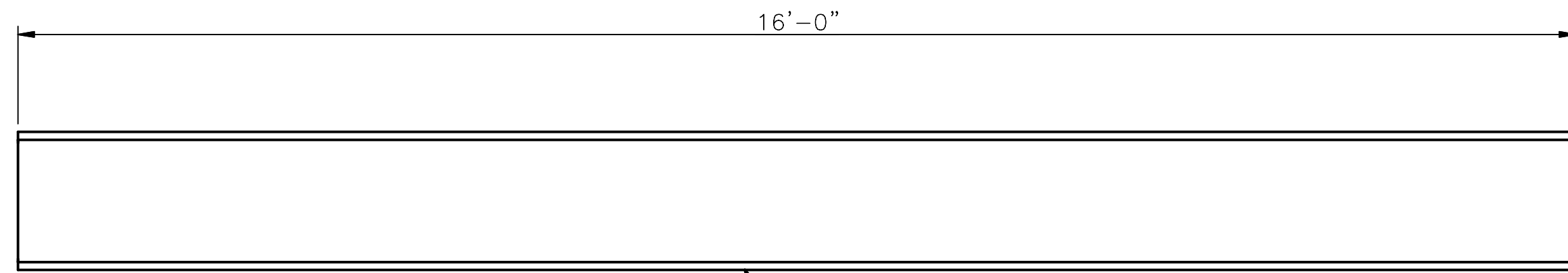
SOUTH FORK TOLT RESERVOIR DEBRIS BOOM REPLACEMENT

PC C117069  
CO 912-32  
VPI # S-219  
SHEET 42 OF XX

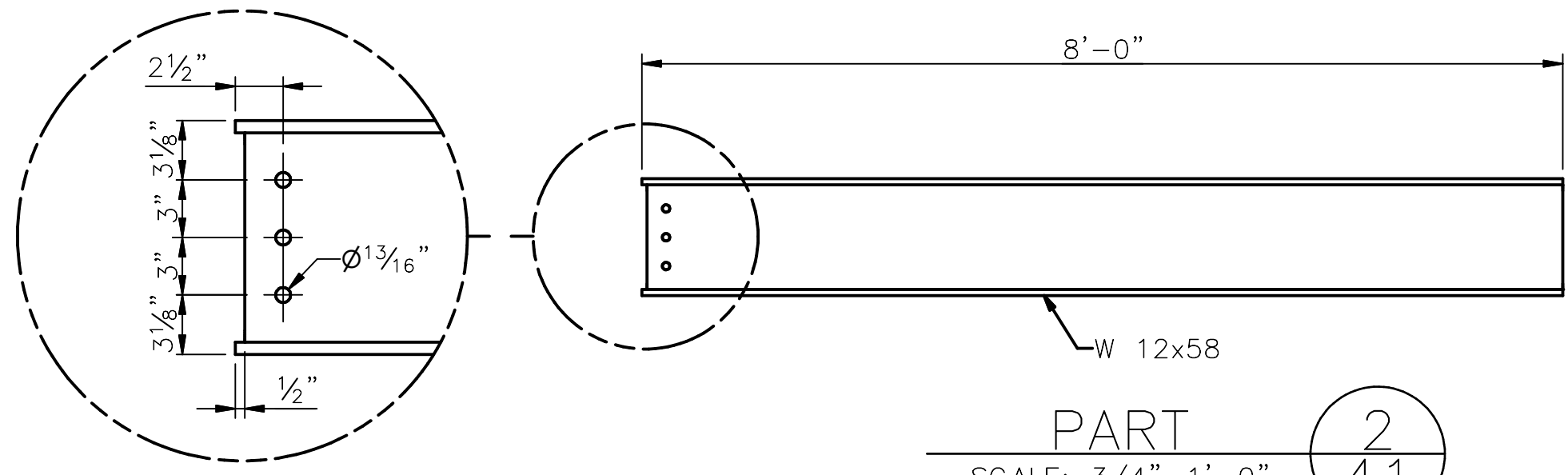
SDOT #####

**SHEET NOTES:**

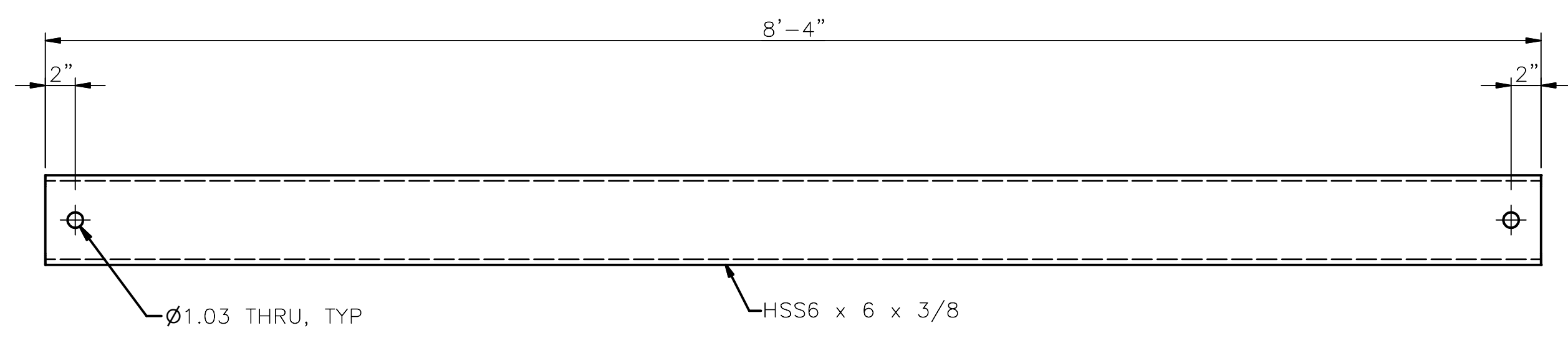
1. ALL MATERIAL SHALL BE A316 STAINLESS STEEL, UNO.



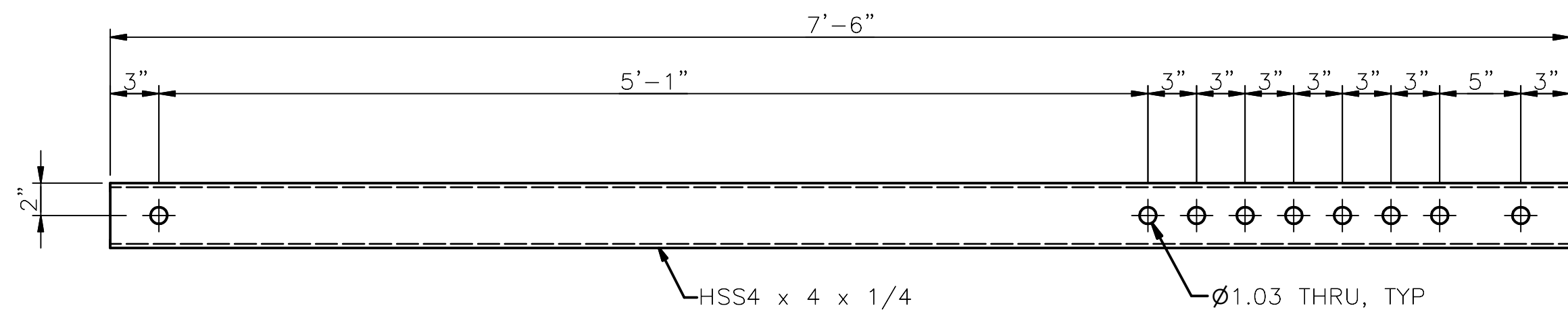
W 16x100  
PART 1  
SCALE: 3/4"=1'-0"  
41



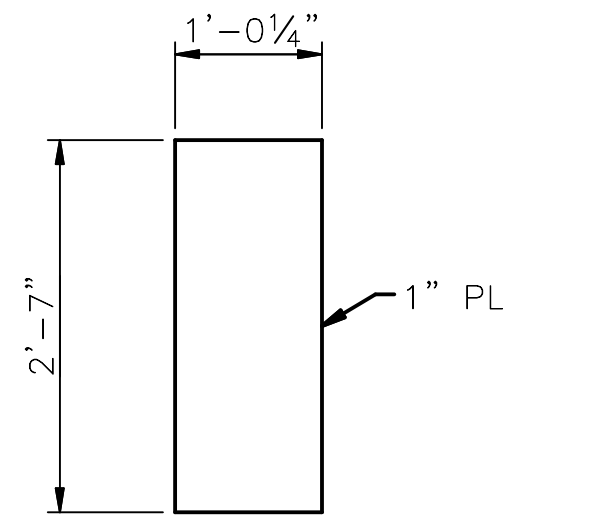
W 12x58  
PART 2  
SCALE: 3/4"=1'-0"  
41



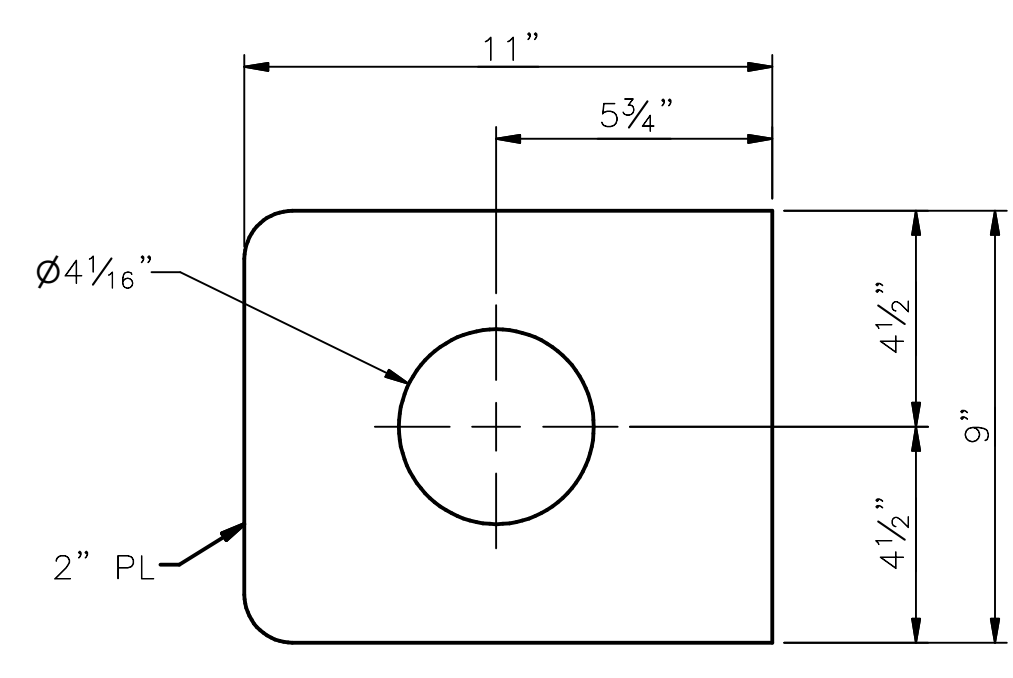
HSS6 x 6 x 3/8  
PART 3  
SCALE: 1 1/2"=1'-0"  
41



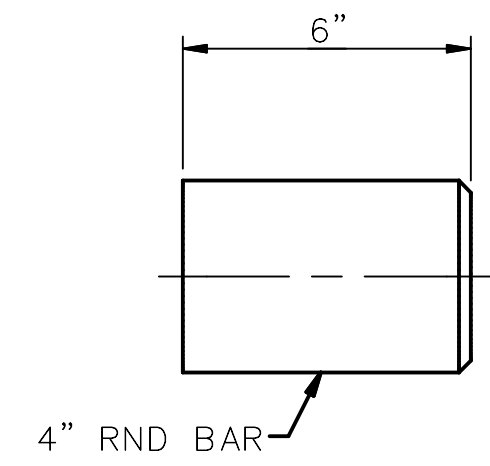
HSS4 x 4 x 1/4  
PART 4  
SCALE: 1 1/2"=1'-0"  
41



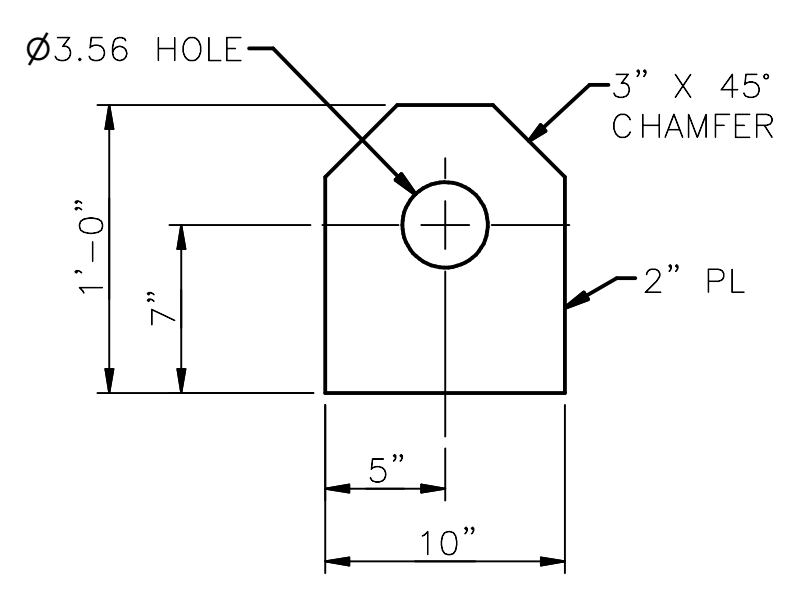
1" PL  
PART 5  
SCALE: 3/4"=1'-0"  
41



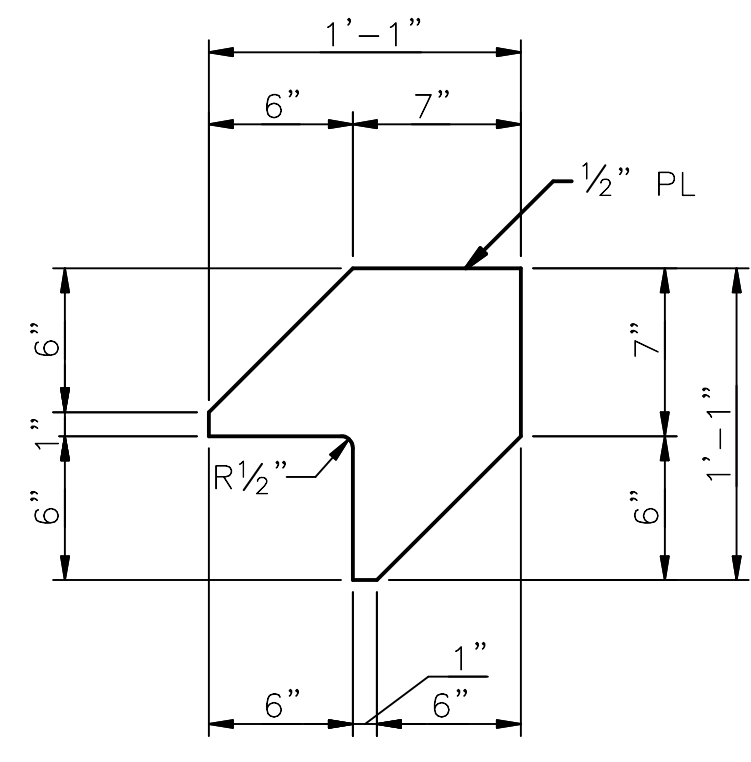
2" PL  
PART 6  
SCALE: 3"=1'-0"  
41



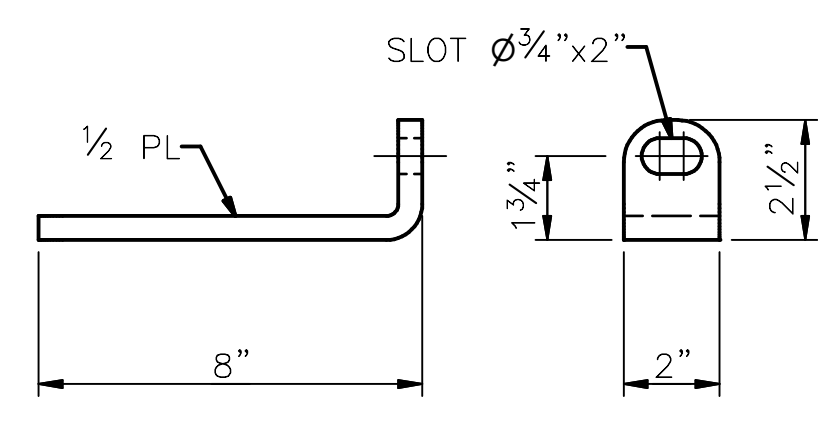
4" RND BAR  
PART 7  
SCALE: 3"=1'-0"  
41



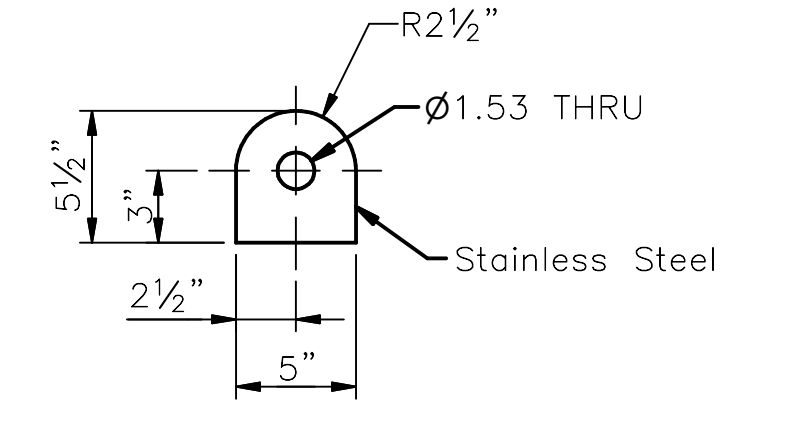
3" X 45° CHAMFER  
2" PL  
PART 8  
SCALE: 1 1/2"=1'-0"  
41



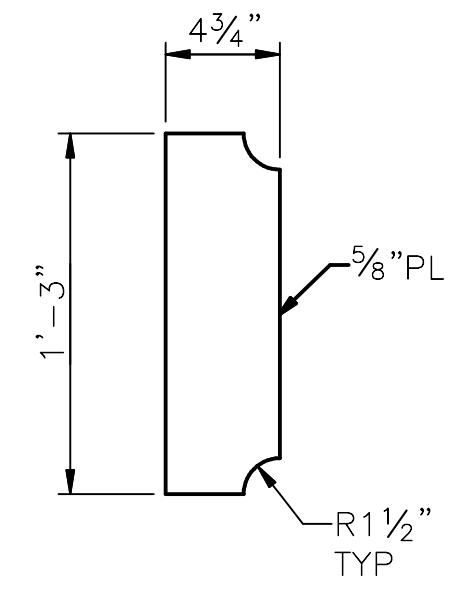
1/2" PL  
PART 9  
SCALE: 1 1/2"=1'-0"  
41



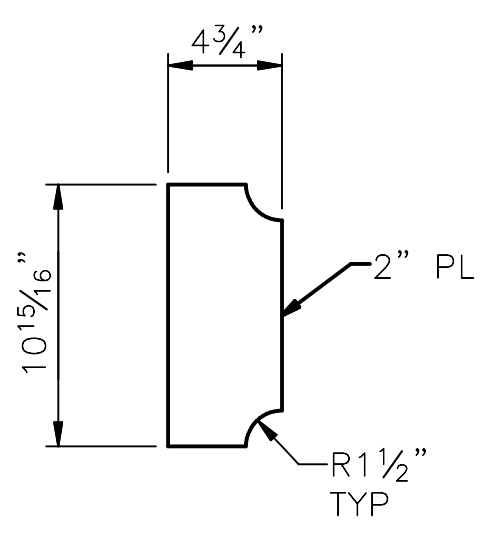
1/2" PL  
SLOT 3/4"x2"  
PART 10  
SCALE: 3"=1'-0"  
41



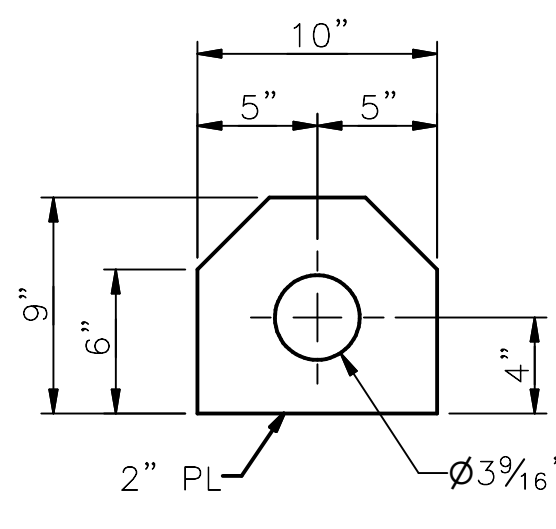
R2 1/2"  
1.53 THRU  
Stainless Steel  
PART 11  
SCALE: 1 1/2"=1'-0"  
41



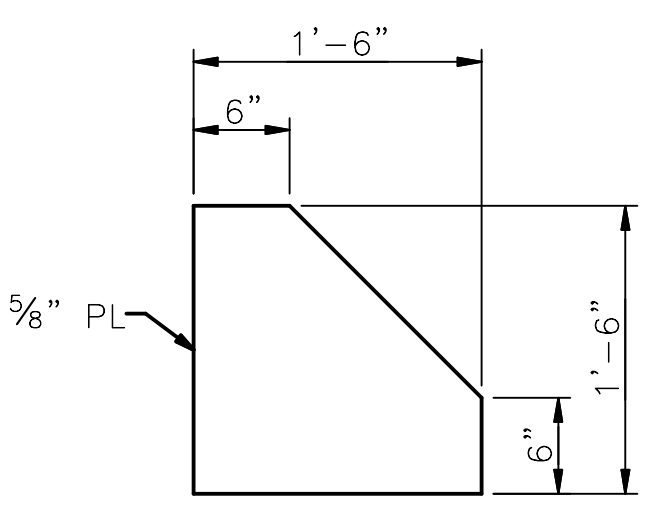
5/8" PL  
R1 1/2" TYP  
PART 12  
SCALE: 1 1/2"=1'-0"  
41



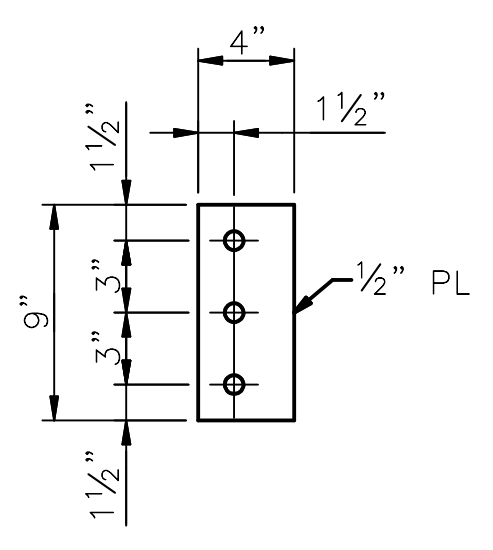
2" PL  
R1 1/2" TYP  
PART 13  
SCALE: 1 1/2"=1'-0"  
41



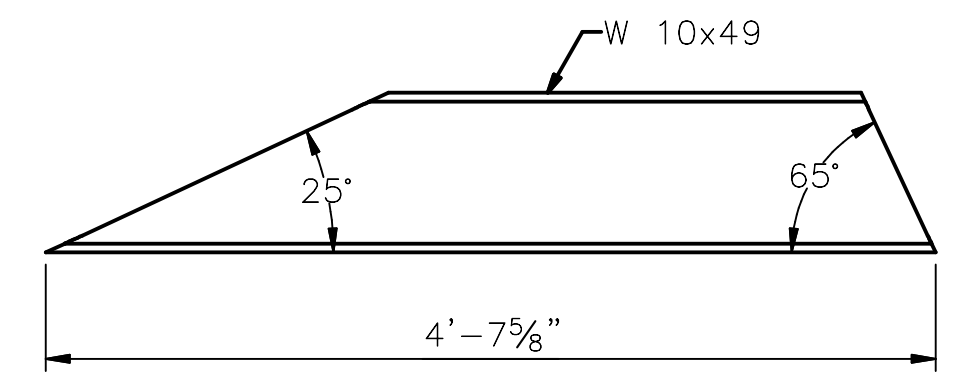
2" PL  
3 3/16"  
PART 14  
SCALE: 1 1/2"=1'-0"  
41



5/8" PL  
PART 15  
SCALE: 1 1/2"=1'-0"  
41



1 1/2" PL  
PART 16  
SCALE: 1 1/2"=1'-0"  
41



W 10x49  
PART 17  
SCALE: 1 1/2"=1'-0"  
41

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Seattle Public Utilities  
ORDINANCE NO. PW NO.  
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DEBRIS BOOM BOAT GATE COMPONENTS 1

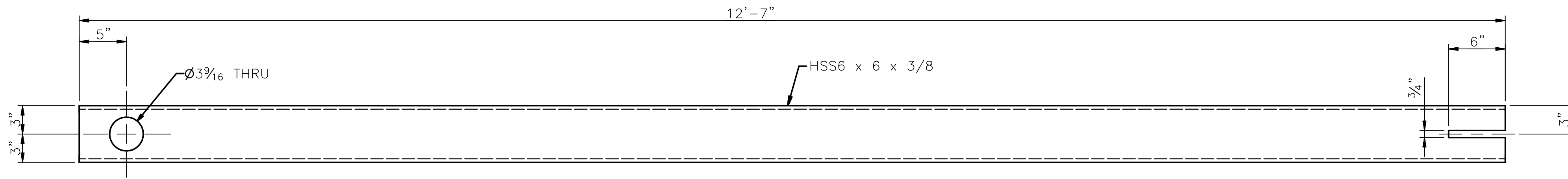
SOUTH FORK TOLT RESERVOIR DEBRIS BOOM REPLACEMENT

PC C117069  
CO 912-32  
VPI # S-220  
SHEET 43 OF XX

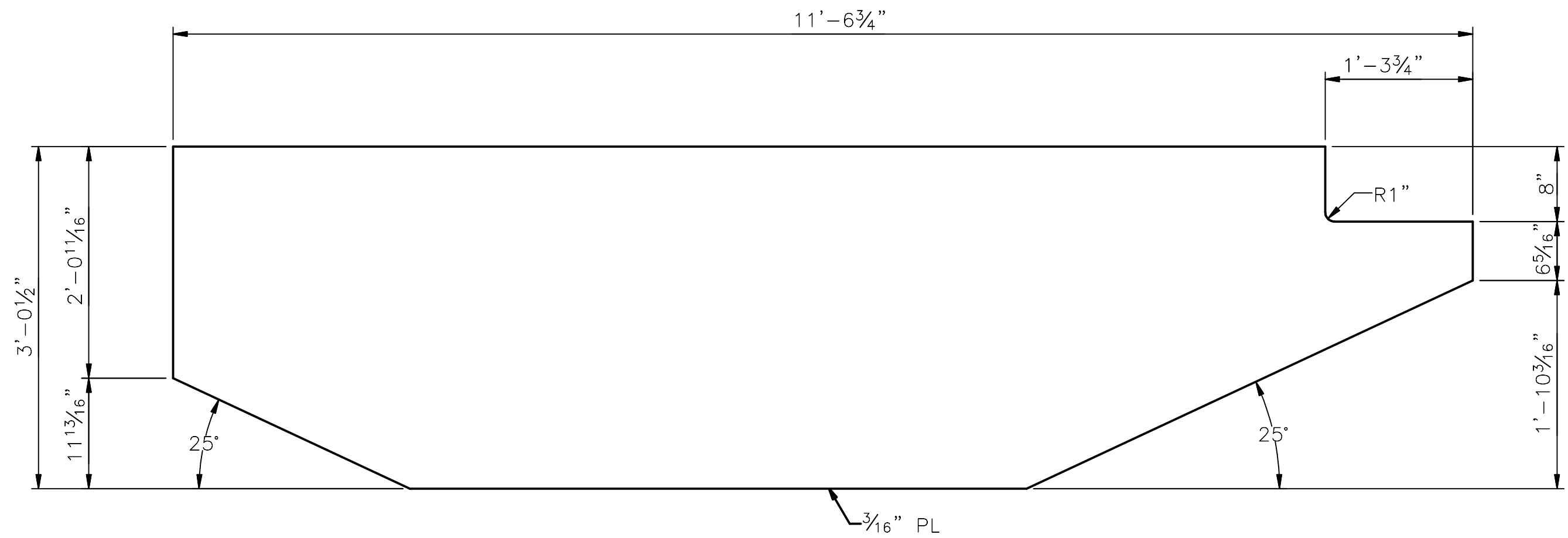
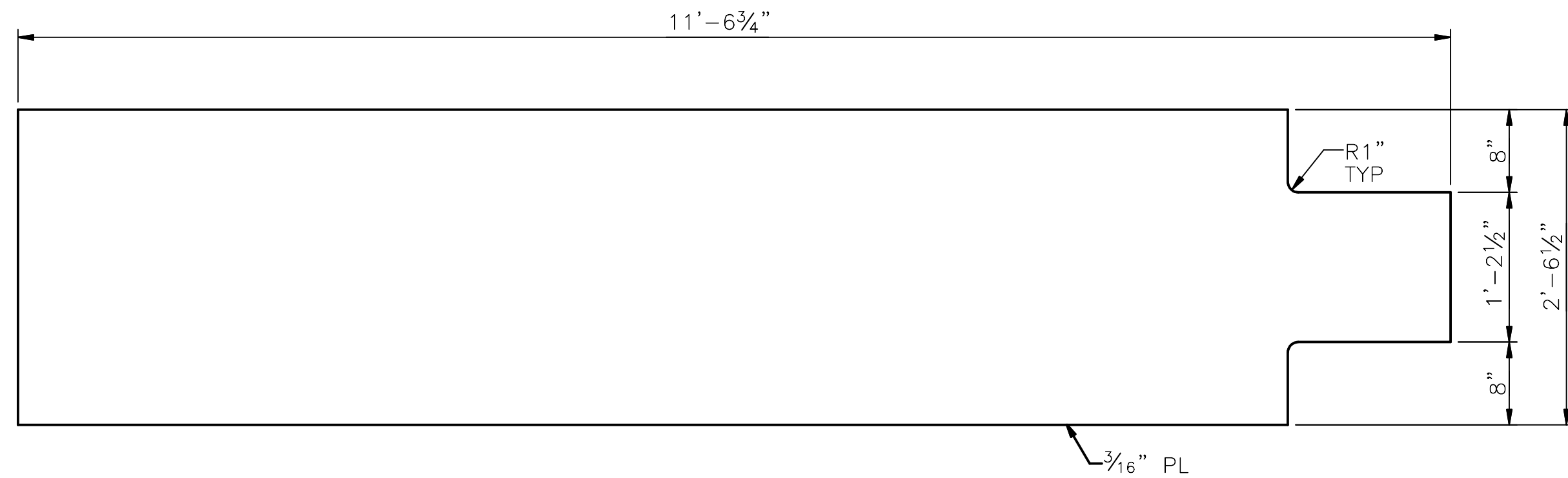
SDCI #####.SDOT #####

SHEET NOTES:

1. ALL MATERIAL SHALL BE A316 STAINLESS STEEL, UNO.

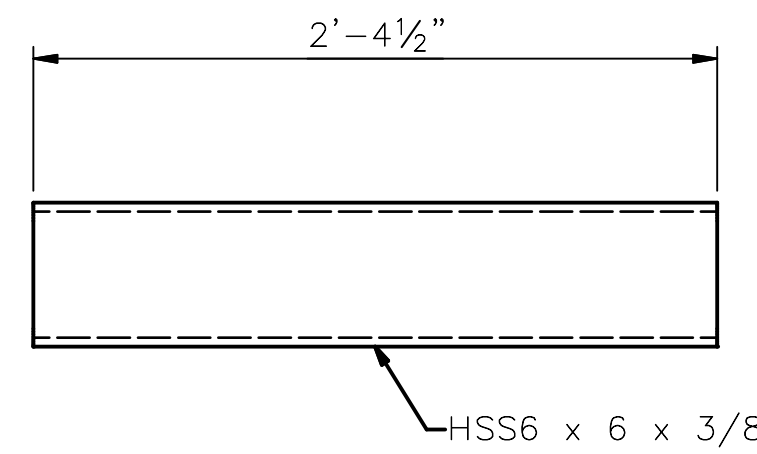
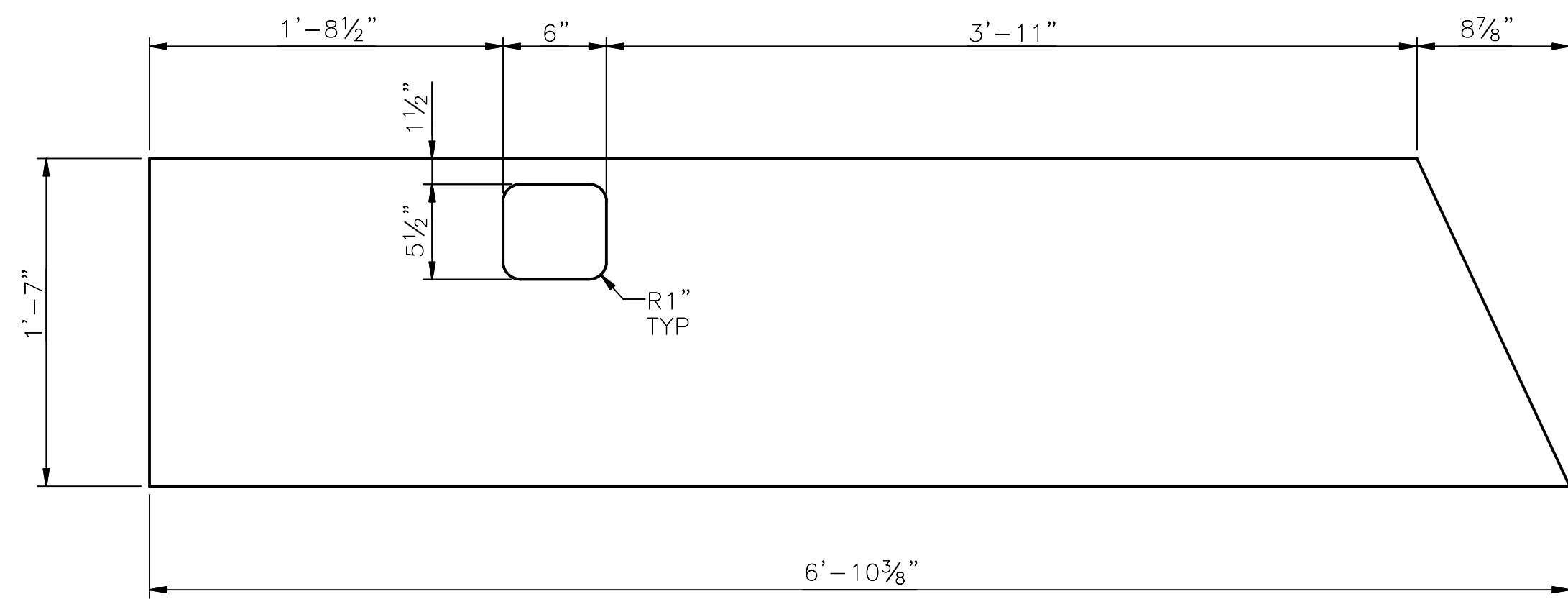


PART 18  
SCALE: 1 1/2"=1'-0"

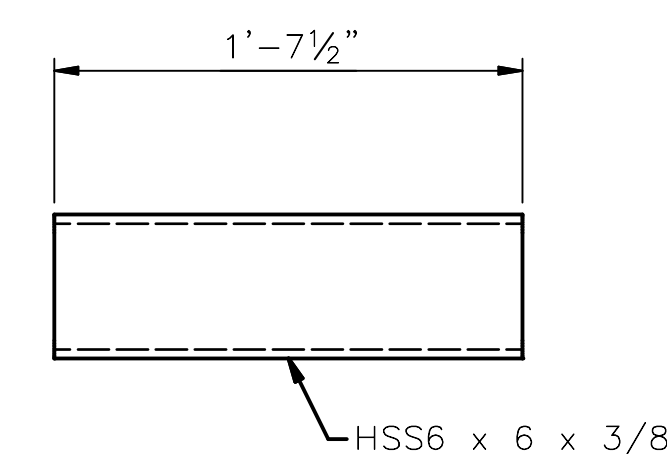


PART 20  
SCALE: 1"=1'-0"

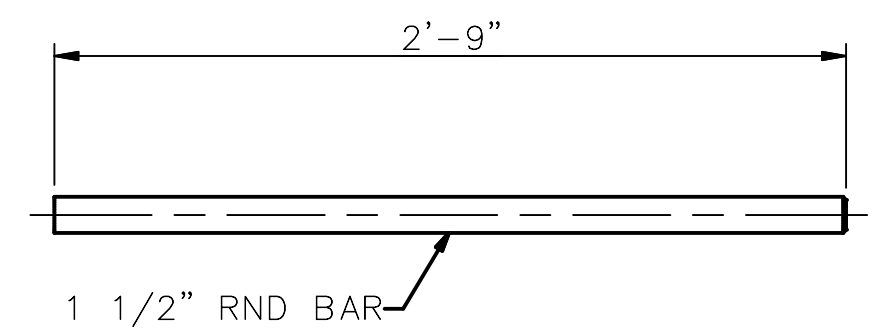
PART 19  
SCALE: 1"=1'-0"



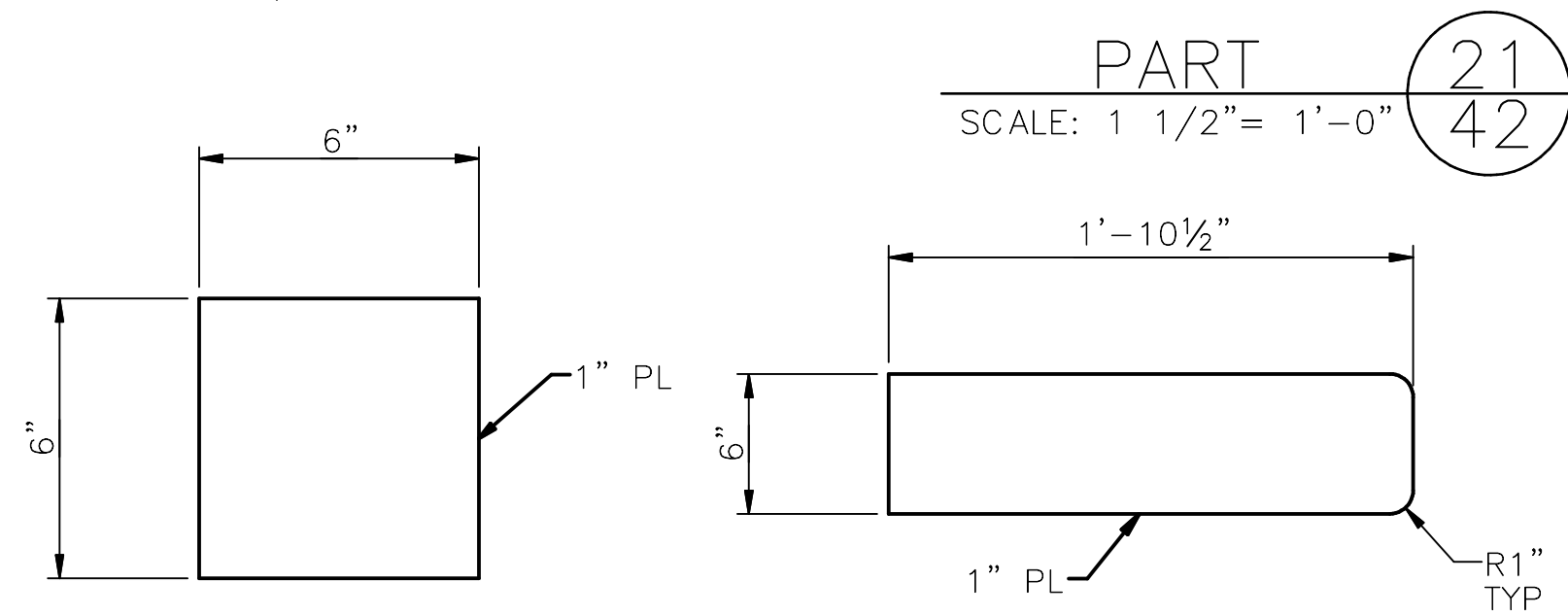
PART 22  
SCALE: 1 1/2"=1'-0"



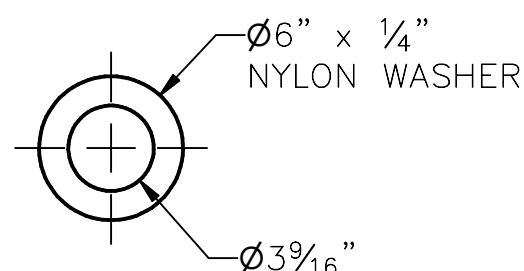
PART 23  
SCALE: 1 1/2"=1'-0"



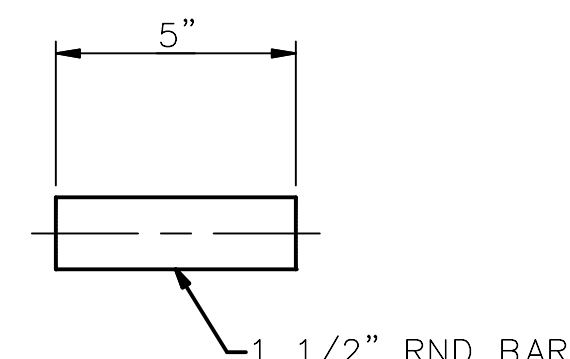
PART 24  
SCALE: 1 1/2"=1'-0"



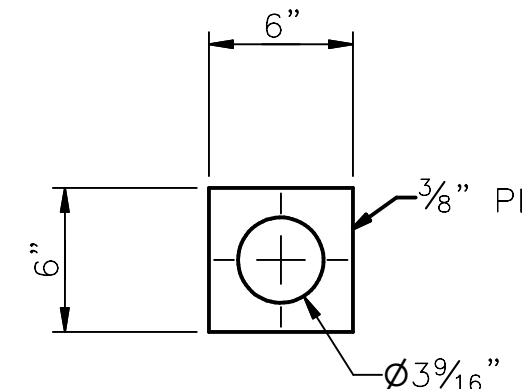
PART 21  
SCALE: 1 1/2"=1'-0"



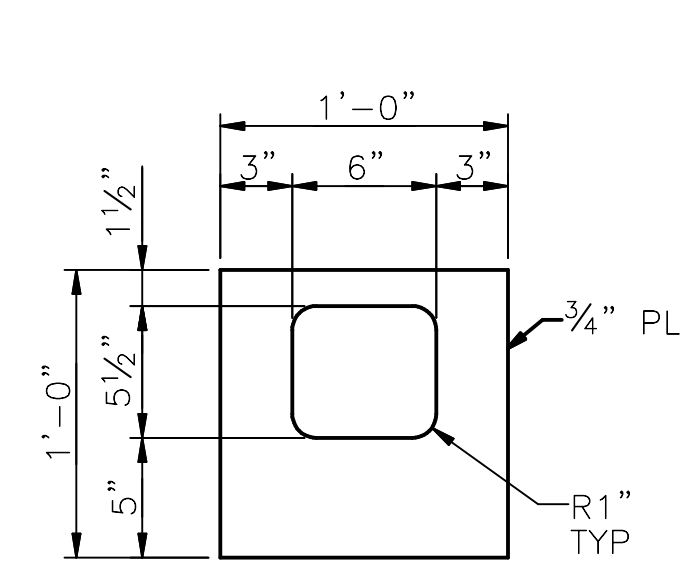
PART 27  
SCALE: 1 1/2"=1'-0"



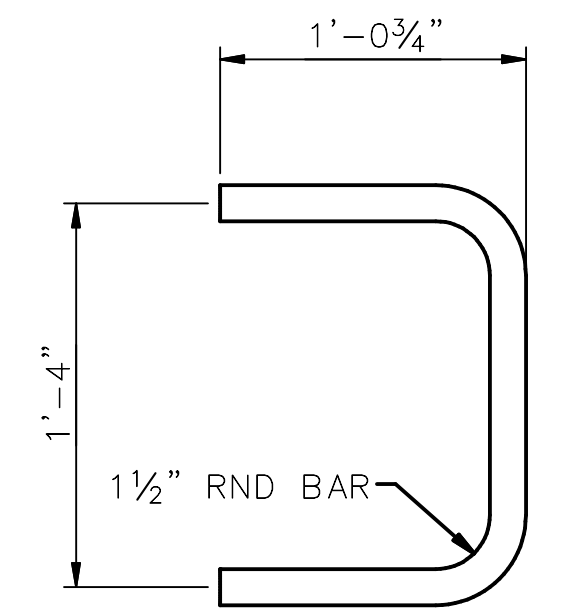
PART 28  
SCALE: 3"=1'-0"



PART 29  
SCALE: 3"=1'-0"



PART 30  
SCALE: 1 1/2"=1'-0"



PART 31  
SCALE: 1 1/2"=1'-0"

PART 25  
SCALE: 3"=1'-0"

PART 26  
SCALE: 1 1/2"=1'-0"

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SEATTLE, WASHINGTON 20

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CHECKED GC  
BY: CITY PURCHASING & CONTRACTING SERVICES DIRECTOR



INITIALS AND DATE  
REVIEWED: DES. SDOT  
CONST. PROJ. MGR.  
RECEIVED  
REVISED AS BUILT  
SCALE: AS NOTED



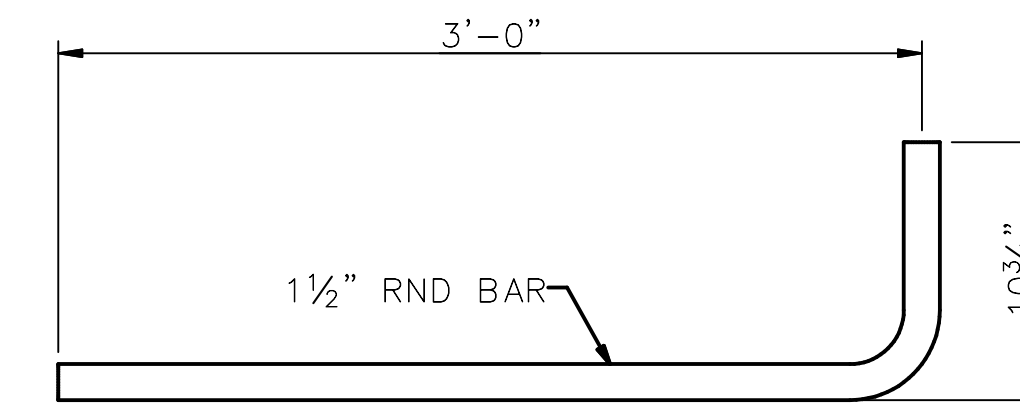
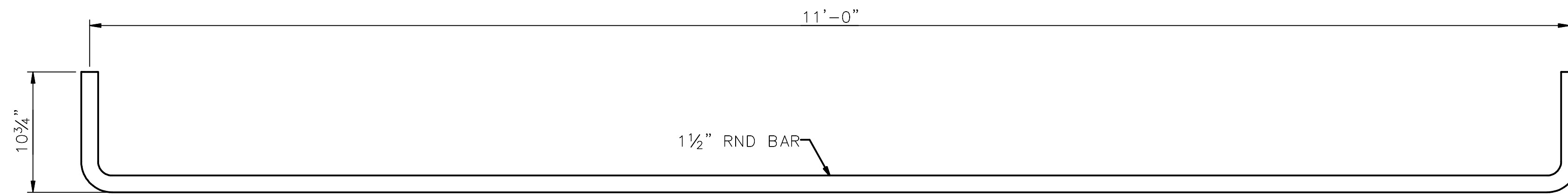
DEBRIS BOOM BOAT GATE COMPONENTS 2

SOUTH FORK TOLT RESERVOIR DEBRIS BOOM REPLACEMENT

PC C117069  
CO  
VPI # 912-32  
S-221  
SHEET 44 OF XX

VAULT SERIAL #	DATE	MARK	NATURE	MADE CHK'D	REV'D
38810			REVISIONS		

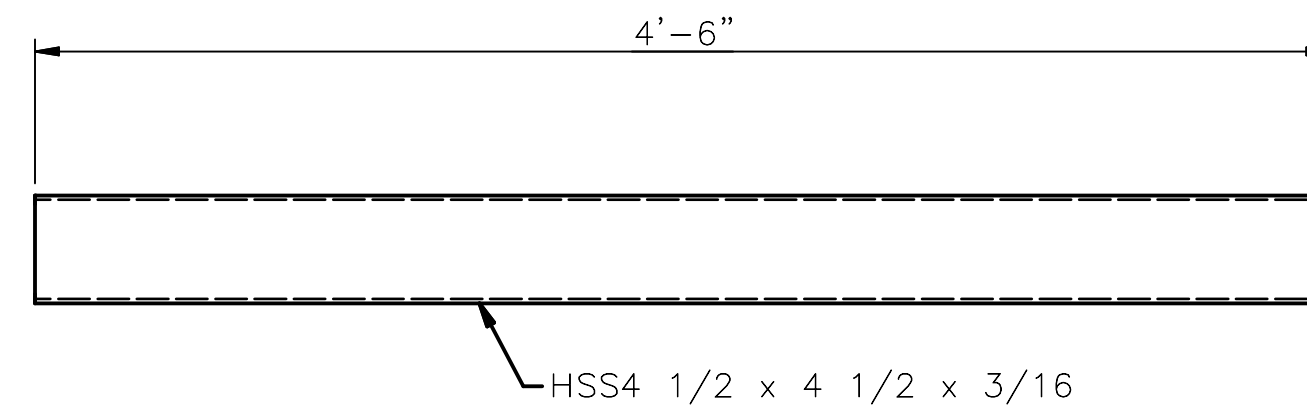
SDOT #####



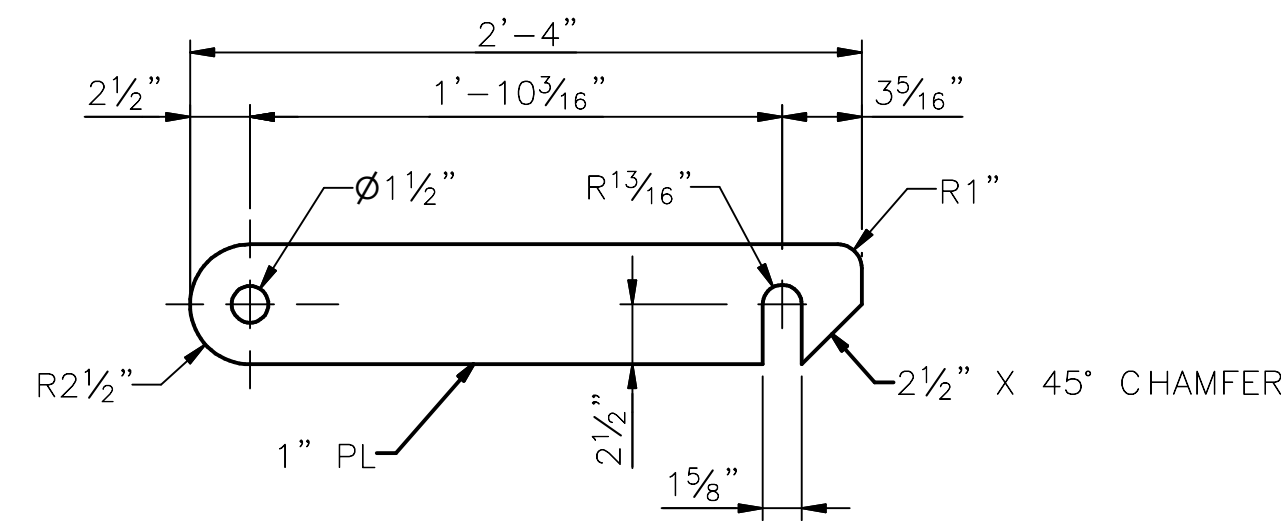
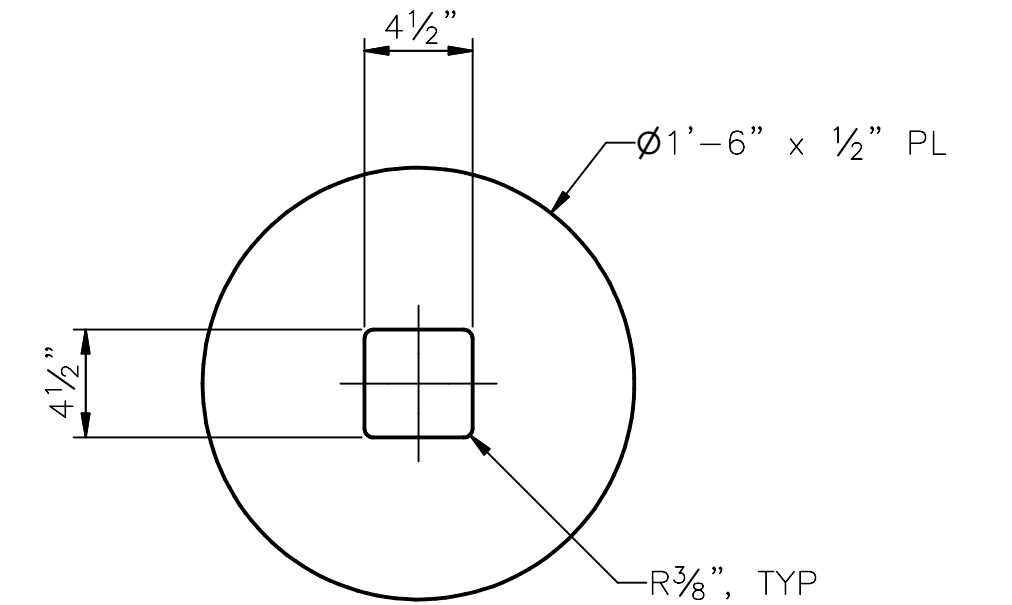
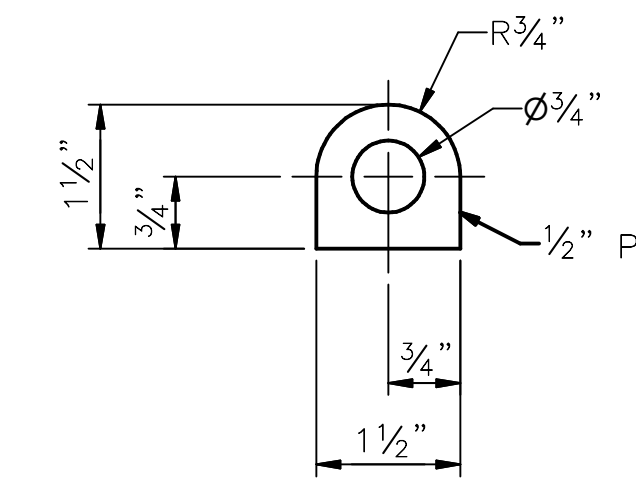
**SHEET NOTES:**

1. ALL MATERIAL SHALL BE A316 STAINLESS STEEL, UNO.

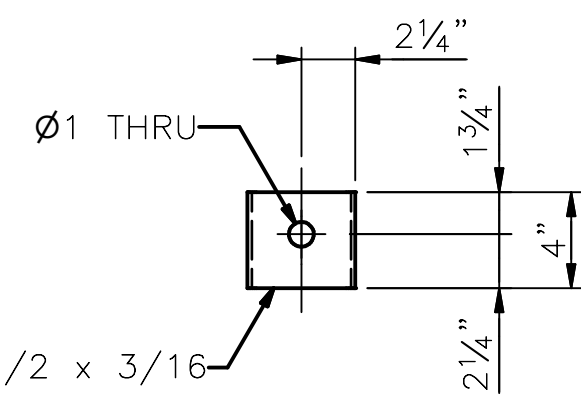
PART 32  
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42



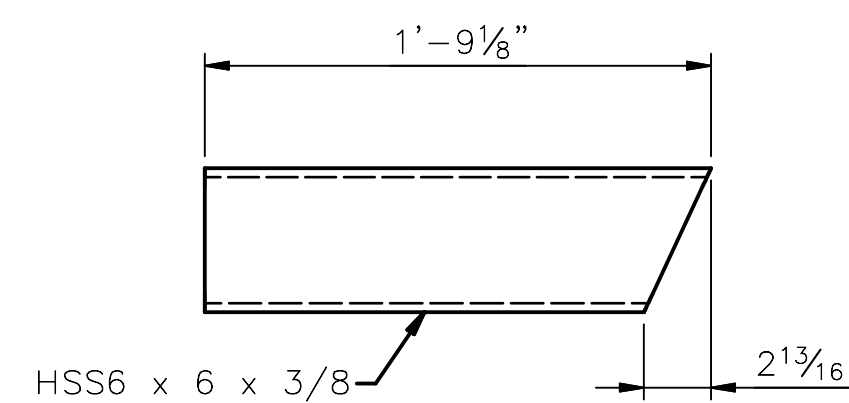
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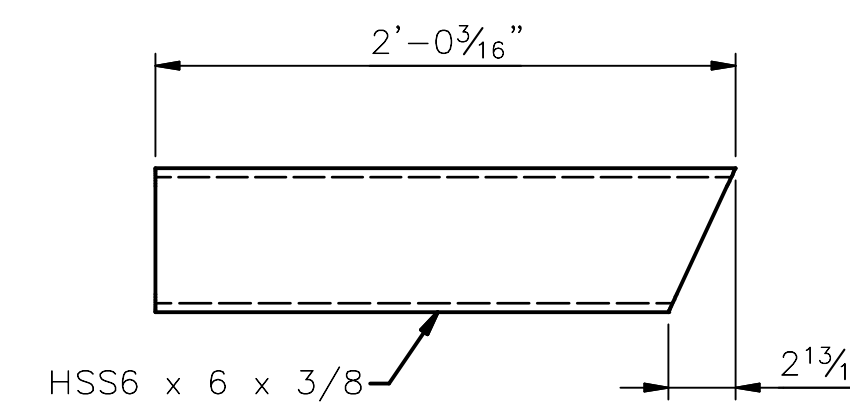
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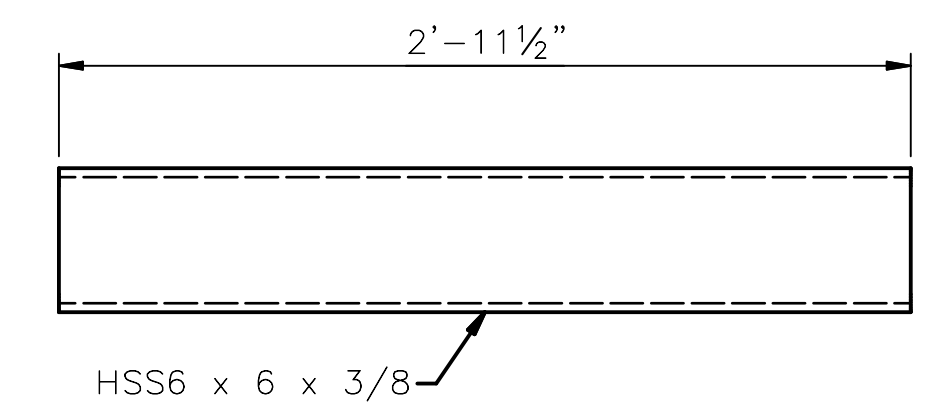
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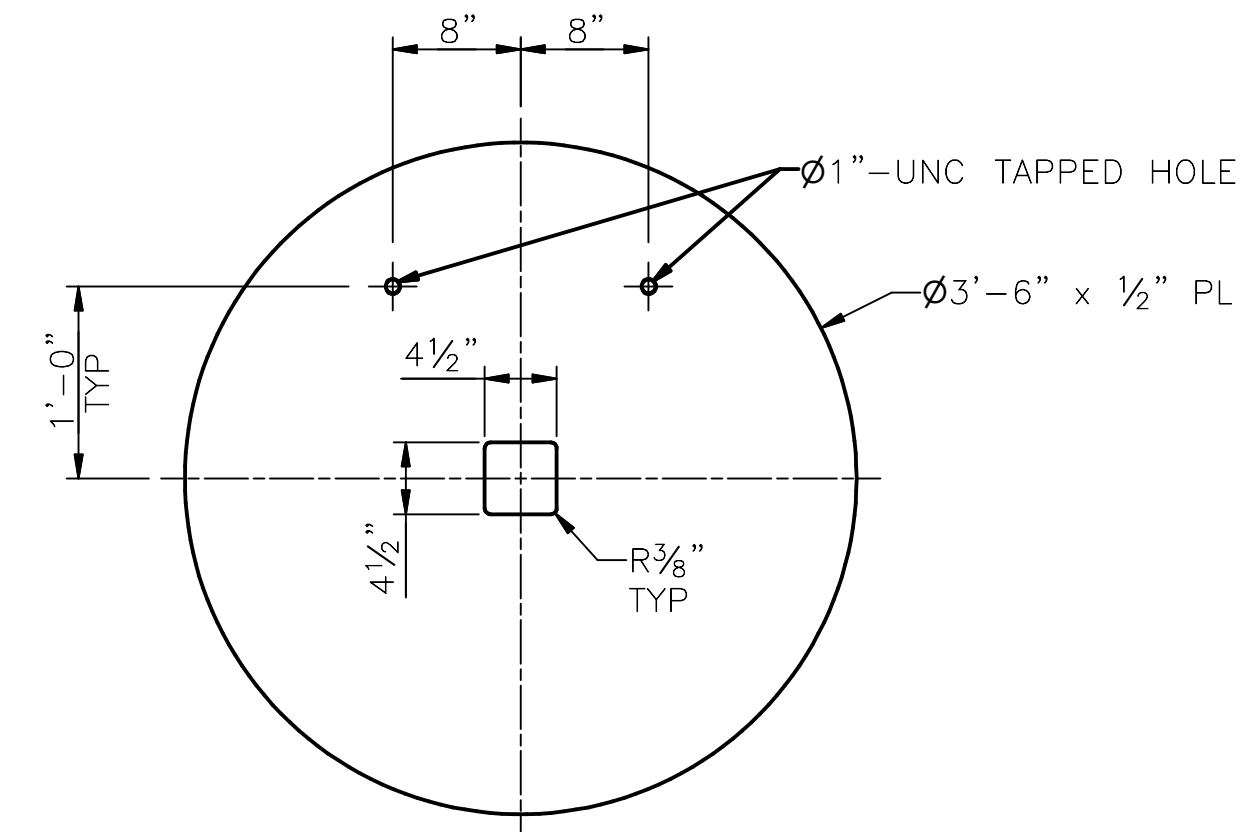
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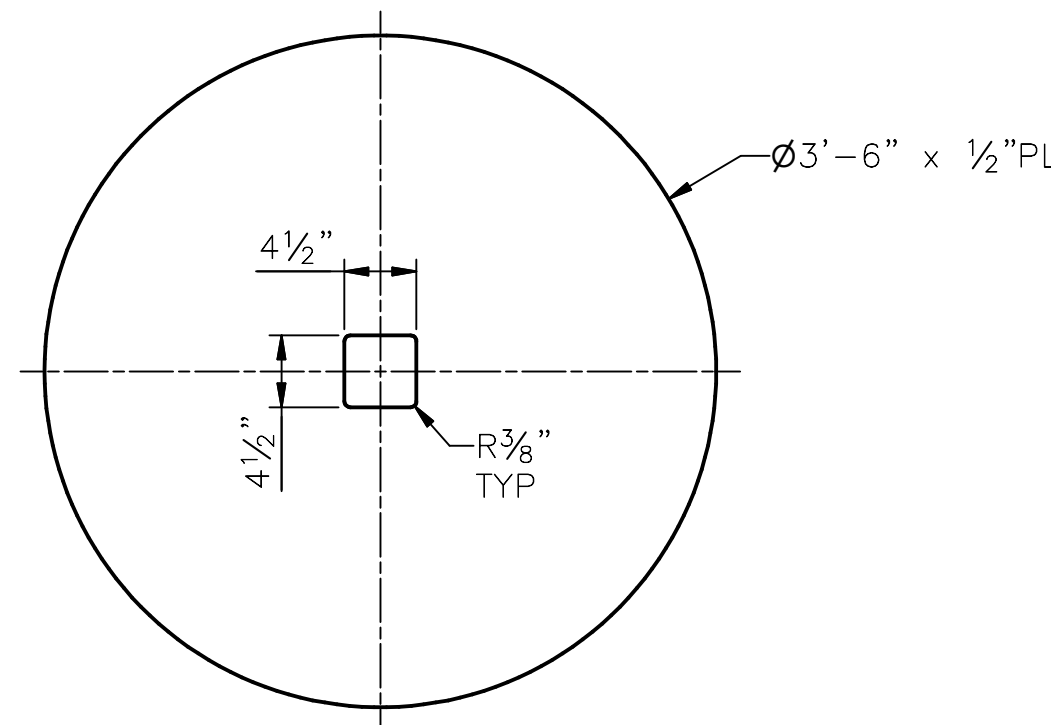
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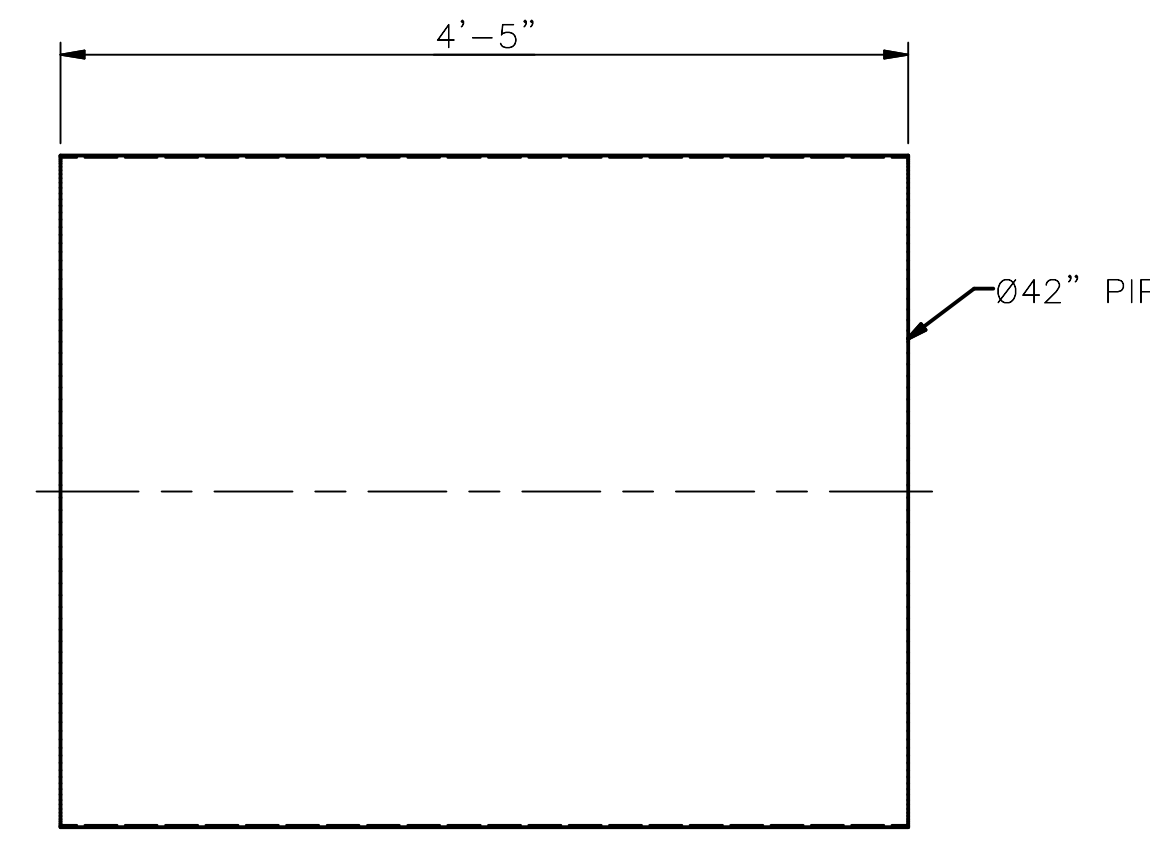
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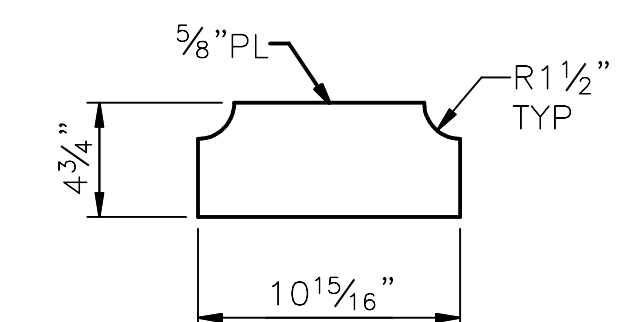
PART 39  
SCALE: 1 1/2"=1'-0"  
42



PART 40  
SCALE: 1 1/2"=1'-0"  
42



PART 41  
SCALE: 1 1/2"=1'-0"  
42



PART 42  
SCALE: 1"=1'-0"  
42

PART 43  
SCALE: 1"=1'-0"  
42

PART 44  
SCALE: 1"=1'-0"  
42

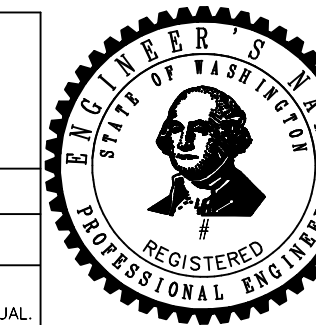
PART 45  
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41

**90% SUBMITTAL (NOT FOR CONSTRUCTION)**

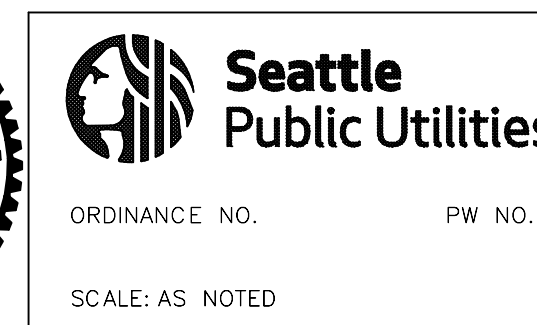


APPROVED FOR ADVERTISING  
LIZ ALZEER  
DEPARTMENT OF FINANCE & ADMINISTRATIVE SERVICES  
SEATTLE, WASHINGTON 20  
BY: CITY PURCHASING & CONTRACTING SERVICES DIRECTOR

INITIALS AND DATE  
DESIGNED GC  
CHECKED TB  
DRAWN JC  
CHECKED GC  
ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE CITY OF SEATTLE STANDARD PLANS AND SPECIFICATIONS AND OTHER DOCUMENTS CALLED FOR IN SECTION 0-02.3 OF THE PROJECT MANUAL.



INITIALS AND DATE  
REVIEWED: DES. CONST. PROJ. MGR.  
SDOT  
RECEIVED  
REVISED AS BUILT  
SCALE: AS NOTED



DEBRIS BOOM BOAT GATE COMPONENTS 3

SOUTH FORK TOLT RESERVOIR DEBRIS BOOM REPLACEMENT

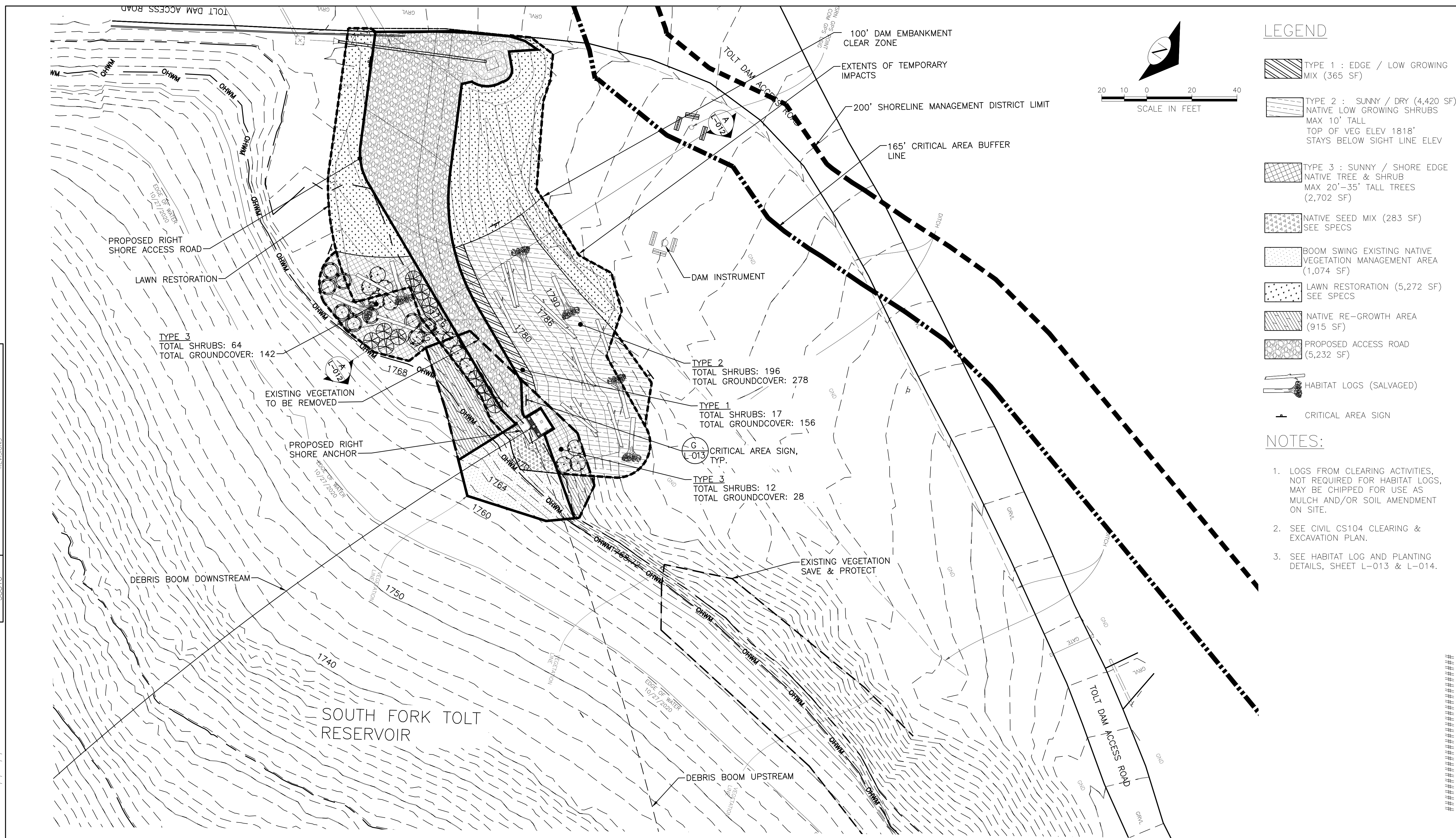
PC C117069  
CO  
VPI # 912-32  
S-222  
SHEET 45 OF XX

SDOT #####

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\*912-32##\*

VAULT SERIAL #	DATE	MARK	NATURE	REVISIONS
38810				MADE CHK'D REV'D



### LEGEND

- TYPE 1 : EDGE / LOW GROWING MIX (365 SF)
- TYPE 2 : SUNNY / DRY (4,420 SF)  
NATIVE LOW GROWING SHRUBS  
MAX 10' TALL  
TOP OF VEG ELEV 1818'  
STAYS BELOW SIGHT LINE ELEV
- TYPE 3 : SUNNY / SHORE EDGE  
NATIVE TREE & SHRUB  
MAX 20'-35' TALL TREES  
(2,702 SF)
- NATIVE SEED MIX (283 SF)  
SEE SPECS
- BOOM SWING EXISTING NATIVE  
VEGETATION MANAGEMENT AREA  
(1,074 SF)
- LAWN RESTORATION (5,272 SF)  
SEE SPECS
- NATIVE RE-GROWTH AREA  
(915 SF)
- PROPOSED ACCESS ROAD  
(5,232 SF)
- HABITAT LOGS (SALVAGED)
- CRITICAL AREA SIGN

- ### NOTES:
- LOGS FROM CLEARING ACTIVITIES, NOT REQUIRED FOR HABITAT LOGS, MAY BE CHIPPED FOR USE AS MULCH AND/OR SOIL AMENDMENT ON SITE.
  - SEE CIVIL CS104 CLEARING & EXCAVATION PLAN.
  - SEE HABITAT LOG AND PLANTING DETAILS, SHEET L-013 & L-014.

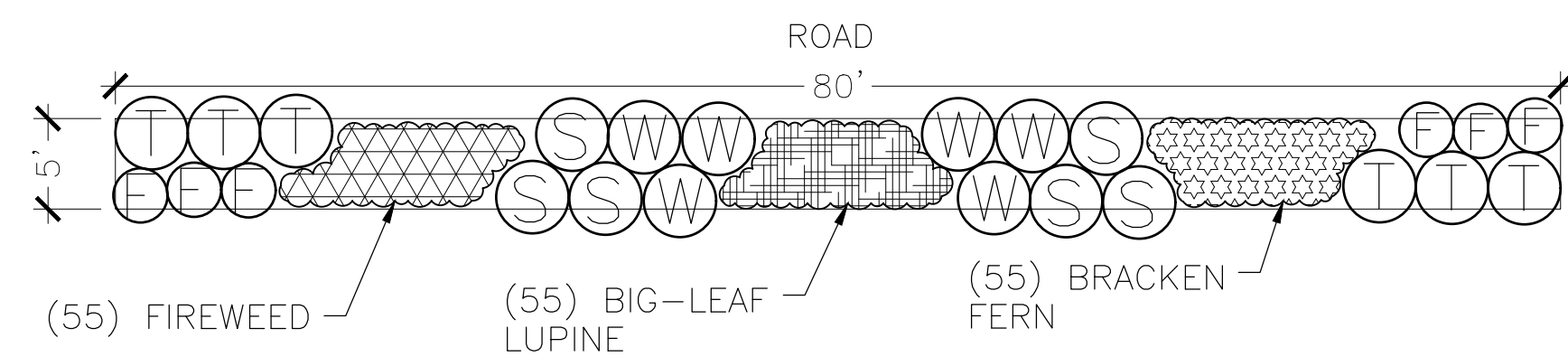
REVISED 90% SUBMITTAL (NOT FOR CONSTRUCTION)

RIGHT SHORE PLANTING PLAN  
SCALE: 1:20

RIGHT SHORE PLANTING PLAN

		APPROVED FOR ADVERTISING LIZ ALZEER DEPARTMENT OF FINANCE & ADMINISTRATIVE SERVICES SEATTLE, WASHINGTON 20	INITIALS AND DATE DESIGNED TW 08-01-2022 CHECKED TW 09-30-2022	INITIALS AND DATE REVIEWED: DES. #                      CONST. # SDOT #                     PROJ. MGR. # RECEIVED # REVISED AS BUILT #			SOUTH FORK TOLT RESERVOIR DEBRIS BOOM REPLACEMENT	PC C117069 CO # VPI # 912-32
		BY: CITY PURCHASING & CONTRACTING SERVICES DIRECTOR	DRAWN SMS 09-30-2022 CHECKED TW 09-30-2022	ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE CITY OF SEATTLE STANDARD PLANS AND SPECIFICATIONS AND OTHER DOCUMENTS CALLED FOR IN SECTION 0-02.3 OF THE PROJECT MANUAL.	ORDINANCE NO. # PW NO. # SCALE:	L-001 SHEET 46 OF 59		

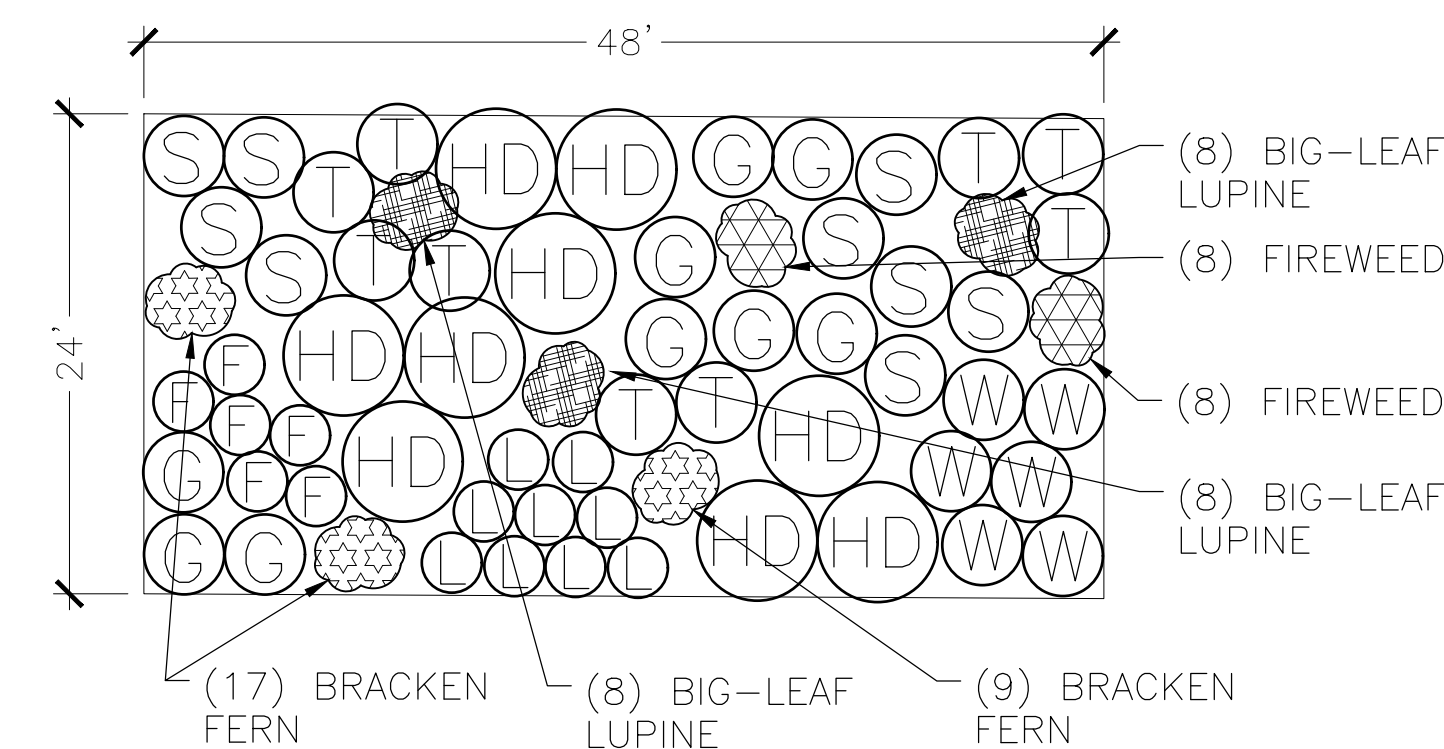
**TYPE1: EDGE/LOW GROWING MIX**



TYPICAL 400 SF AREA

DECIDUOUS TREES, TYP.	TOTAL : 0		
SHRUBS	TOTAL : 18		
QTY.	SCIENTIFIC NAME	COMMON NAME	SPACING
6	GAULTHERIA SHALLON	SALAL	4' O.C.
6	SYMPHORICARPOS ALBUS	SNOWBERRY	4' O.C.
6	RUBUS PARVIFLORUS	THIMBLEBERRY	4' O.C.
GROUNDCOVER		TOTAL : 171	
55	EPILOBIUM ANGUSTIFOLIUM	FIREWEED	12" O.C.
55	LUPINUS POLYPHYLLUS	BIG-LEAF LUPINE	12" O.C.
6	POLYSTICHUM MUNITUM	WESTERN SWORD FERN	36" O.C.
55	PTERIDIUM AQUILINIUM	BRACKEN FERN	12" O.C.

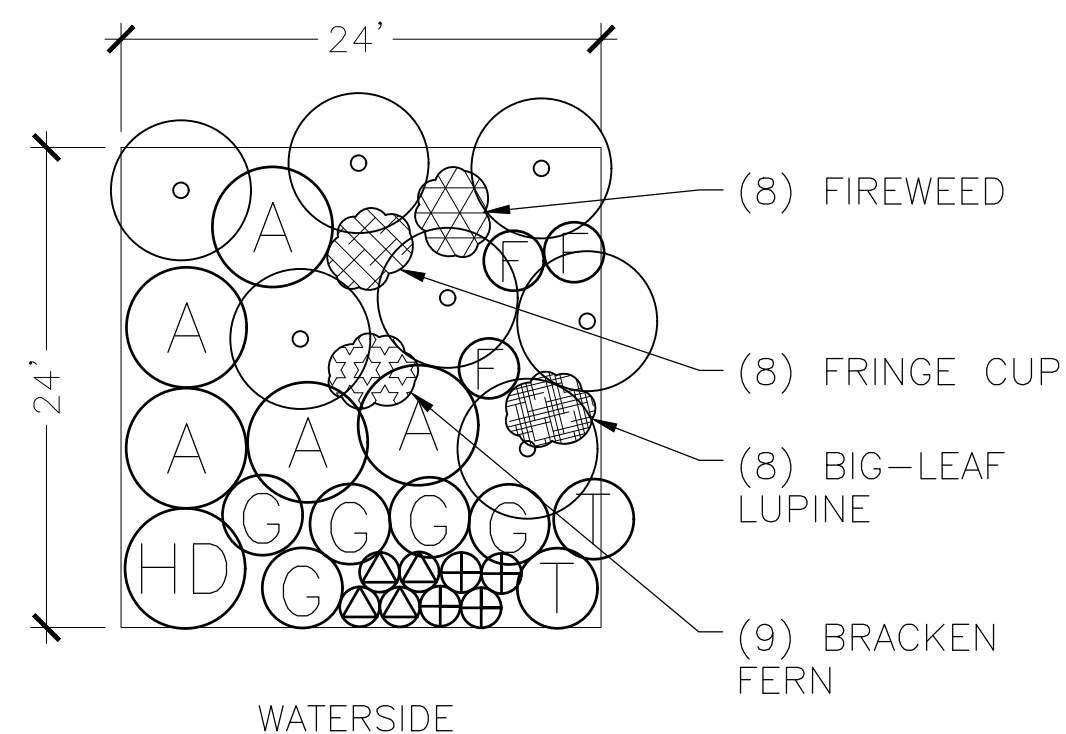
**TYPE 2 : SUNNY / DRY SHRUBS UNDER 10' HEIGHT**



TYPICAL 1152 SF AREA

DECIDUOUS TREES, TYP.	TOTAL : 0		
SHRUBS	TOTAL : 51		
QTY.	SCIENTIFIC NAME	COMMON NAME	SPACING
9	GAULTHERIA SHALLON	SALAL	4' O.C.
9	HOLODISCUS DISCOLOR	OCEAN SPRAY	6' O.C.
9	ROSA GYMNOCARPA	WOOD ROSE	4' O.C.
9	RUBUS LEUCODERMIS	BLACK RASPBERRY	3' O.C.
9	RUBUS PARVIFLORUS	THIMBLEBERRY	4' O.C.
6	SYMPHORICARPOS ALBUS	SNOWBERRY	4' O.C.
GROUNDCOVER		TOTAL : 72	
16	EPILOBIUM ANGUSTIFOLIUM	FIREWEED	12" O.C.
24	LUPINUS POLYPHYLLUS	BIG-LEAF LUPINE	12" O.C.
6	POLYSTICHUM MUNITUM	WESTERN SWORD FERN	36" O.C.
26	PTERIDIUM AQUILINIUM	BRACKEN FERN	12" O.C.

**TYPE3: SUNNY / SHORE EDGE TREES & SHRUBS - MAX 35' TALL**



TYPICAL 576 SF AREA

DECIDUOUS TREES, TYP.	TOTAL : 7		
SHRUBS	TOTAL : 16		
QTY.	SCIENTIFIC NAME	COMMON NAME	SPACING
5	AMELANCHIER ALNIFOLIA	SERVICEBERRY	6' O.C.
1	HOLODISCUS DISCOLOR	OCEAN SPRAY	6' O.C.
2	RUBUS PARVIFLORUS	THIMBLEBERRY	4' O.C.
4	SALIX PROLIXA	MACKENZIE'S WILLOW	24" O.C.
4	SALIX SITCHENSIS	SITKA WILLOW	24" O.C.
GROUNDCOVER		TOTAL : 36	
8	EPILOBIUM ANGUSTIFOLIUM	FIREWEED	12" O.C.
8	LUPINUS POLYPHYLLUS	BIG-LEAF LUPINE	12" O.C.
3	POLYSTICHUM MUNITUM	WESTERN SWORD FERN	36" O.C.
9	PTERIDIUM AQUILINIUM	BRACKEN FERN	12" O.C.
8	TELLIMA GRANDIFLORA	FRINGE CUP	12" O.C.

NOTES :

- SEE PLANTING PLAN (L-001) AND PLANT SCHEDULE (L-003) FOR TREE LOCATIONS, SPECIES AND TOTAL QUANTITIES.

REVISED 90% SUBMITTAL (NOT FOR CONSTRUCTION)

RIGHT SHORE PLANTING TYPES

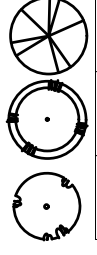
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		BY: _____ CITY PURCHASING & CONTRACTING SERVICES DIRECTOR	DRAWN SMS 09-30-2022 CHECKED TW 09-30-2022	RECEIVED # _____ REVISED AS BUILT //			VPI # 912-32 L-002	
ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE CITY OF SEATTLE STANDARD PLANS AND SPECIFICATIONS AND OTHER DOCUMENTS CALLED FOR IN SECTION 0-02.3 OF THE PROJECT MANUAL.						STATE OF WASHINGTON LICENSED LANDSCAPE ARCHITECT JAMES A. BRENNAN CERTIFICATE NO. 453 EXPIRES 06/30/2027	ORDINANCE NO. # _____ PW NO. # _____ # _____ SCALE: NONE	SHEET 47 OF 59

9/30/2022 11:39 AM SahanaMysoreSathiyana  
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 VAULT SERIAL # 38810  
 DATE MARK NATURE REVISIONS  
 MADE CHKD REV'D  
 \*912-32##\*

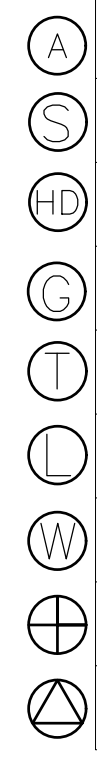


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 V AULT S ERIAL # 38810  
 DATE MARK NATURE REVISIONS MADE CHK'D REV'D

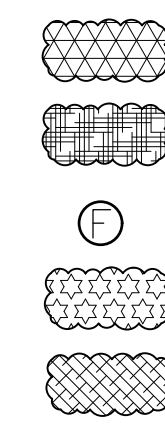
RIGHT SHORE DECIDUOUS TREES		SPACE : 6'- 8' O.C. TOTAL: 32			
QTY.	SCIENTIFIC NAME	COMMON NAME	SIZE	CONDITION	SPACING
10	ALNUS RUBRA	RED ALDER	1 GAL.	CONTAINER	8' O.C.
10	POPULUS TRICHOCARPA	BLACK COTTONWOOD	1 GAL.	CONTAINER	8' O.C.
12	PRUNUS EMARGINATA	BITTER CHERRY	1 GAL.	CONTAINER	7' O.C.



RIGHT SHORE SHRUBS		SPACE : 4'- 6' O.C. TOTAL:289			
QTY.	SCIENTIFIC NAME	COMMON NAME	SIZE	CONDITION	SPACING
23	AMELANCHIER ALNIFOLIA	SERVICEBERRY	1 GAL.	CONTAINER	6' O.C.
41	GAULTHERIA SHALLON	SALAL	1 GAL.	CONTAINER	4' O.C.
40	HOLODISCUS DISCOLOR	OCEAN SPRAY	1 GAL.	CONTAINER	6' O.C.
35	ROSA GYMNOCARPA	WOOD ROSE	1 GAL.	CONTAINER	4' O.C.
50	RUBUS PARVIFLORUS	THIMBLEBERRY	1 GAL.	CONTAINER	4' O.C.
35	RUBUS LEUCODERMIS	BLACK RASPBERRY	1 GAL.	CONTAINER	3' O.C.
27	SYMPHORICARPOS ALBUS	SNOWBERRY	1 GAL.	CONTAINER	4' O.C.
19	SALIX PROLIXA	MACKENZIE'S WILLOW		LIVE STAKES	24" O.C.
19	SALIX SITCHENSIS	SITKA WILLOW		LIVE STAKES	24" O.C.



RIGHT SHORE GROUNDCOVERS & FERNS		SPACE : 12"- 36" O.C. TOTAL: 604			
QTY.	SCIENTIFIC NAME	COMMON NAME	SIZE	CONDITION	SPACING
149	EPILOBIUM ANGUSTIFOLIUM	FIREWEED	4" POT	CONTAINER	12" O.C.
180	LUPINUS POLYPHYLLUS	BIG-LEAF LUPINE	4" POT	CONTAINER	12" O.C.
43	POLYSTICHUM MUNITUM	SWORD FERN	4" POT	CONTAINER	36" O.C.
194	PTERIDIUM AQUILINIUM	BRACKEN FERN	4" POT	CONTAINER	12" O.C.
38	TELLIMA GRANDIFLORA	FRINGE CUP	4" POT	CONTAINER	12" O.C.



NATIVE SEED MIX

REVISED 90% SUBMITTAL (NOT FOR CONSTRUCTION)

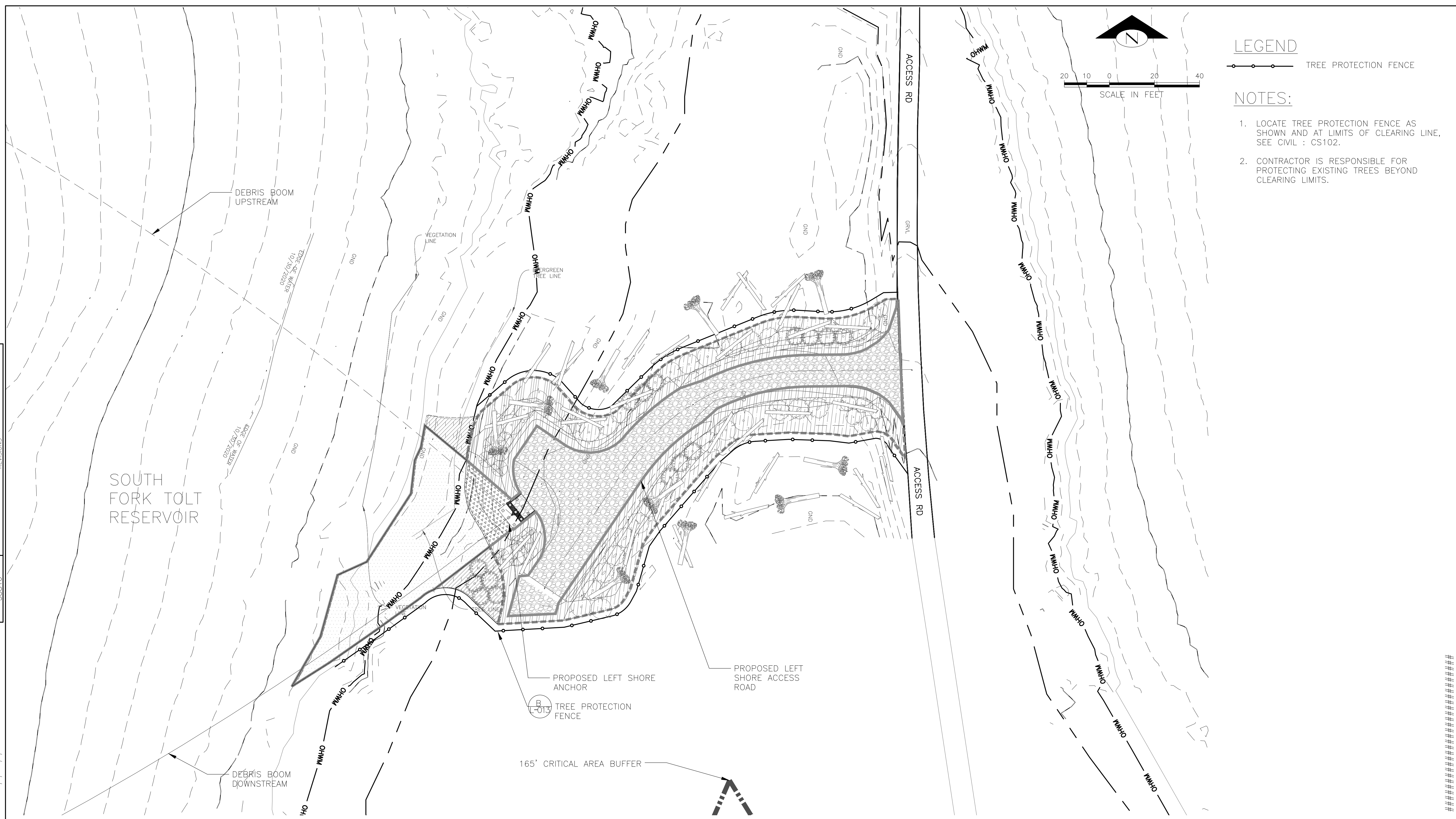
RIGHT SHORE PLANT SCHEDULE

 	APPROVED FOR ADVERTISING LIZ ALZEER DEPARTMENT OF FINANCE & ADMINISTRATIVE SERVICES SEATTLE, WASHINGTON . . . . . 20 . . . . .  BY: _____ CITY PURCHASING & CONTRACTING SERVICES DIRECTOR	INITIALS AND DATE DESIGNED TW 08-01-2022 CHECKED TW 09-30-2022	INITIALS AND DATE REVIEWED: DES. # _____ CONST. # _____ SDOT # _____ PROJ. MGR. # _____  DRAWN SMS 09-30-2022 CHECKED TW 09-30-2022	 <small>STATE OF WASHINGTON LICENSEE LANDSCAPE ARCHITECT</small>  <small>JAMES A. BRENNAN CERTIFICATE NO. 453 EXPIRES 06/30/2027</small>	 ORDINANCE NO. # _____ PW NO. # _____ # _____ SCALE: NONE	SOUTH FORK TOLT RESERVOIR DEBRIS BOOM REPLACEMENT	<table border="1" style="font-size: 8px;"> <tr><td>PC</td><td>C117069</td></tr> <tr><td>CO</td><td>#</td></tr> <tr><td>VPI #</td><td>912-32</td></tr> <tr><td colspan="2" style="font-size: 12px;">L-003</td></tr> <tr><td>SHEET</td><td>48 of 59</td></tr> </table>	PC	C117069	CO	#	VPI #	912-32	L-003		SHEET	48 of 59
		PC	C117069														
CO	#																
VPI #	912-32																
L-003																	
SHEET	48 of 59																
<small>ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE CITY OF SEATTLE STANDARD PLANS AND SPECIFICATIONS AND OTHER DOCUMENTS CALLED FOR IN SECTION 0-02.3 OF THE PROJECT MANUAL.</small>																	

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VAULT SERIAL #	DATE	MARK	NATURE	REVISIONS	MADE	CHK'D	REV'D
38810							



**LEGEND**

—○— TREE PROTECTION FENCE

**NOTES:**

1. LOCATE TREE PROTECTION FENCE AS SHOWN AND AT LIMITS OF CLEARING LINE, SEE CIVIL : CS102.
2. CONTRACTOR IS RESPONSIBLE FOR PROTECTING EXISTING TREES BEYOND CLEARING LIMITS.

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LEFT SHORE TREE PROTECTION PLAN  
SCALE: 1:20

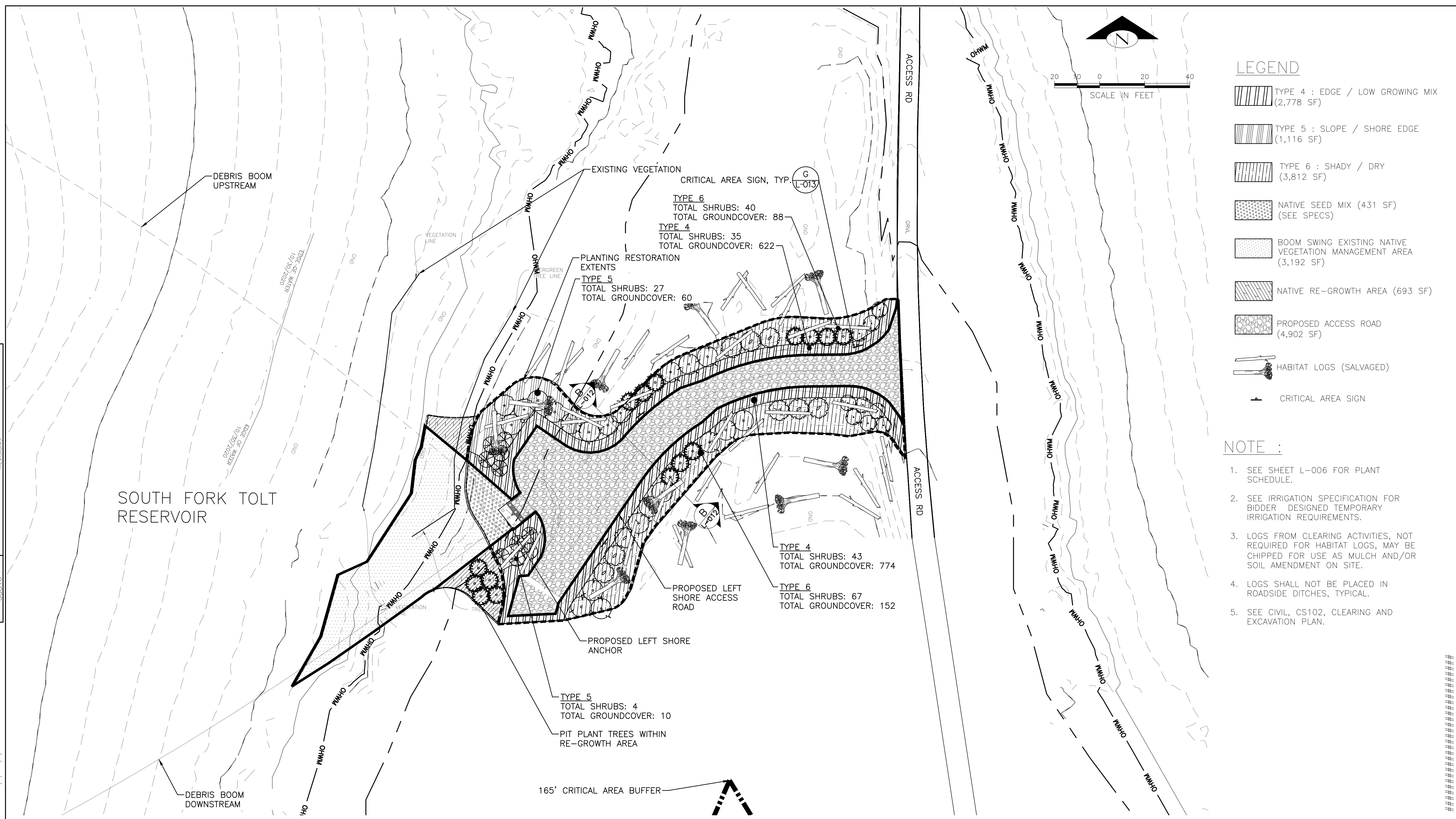
LEFT SHORE TREE PROTECTION PLAN

		APPROVED FOR ADVERTISING LIZ ALZEER DEPARTMENT OF FINANCE & ADMINISTRATIVE SERVICES SEATTLE, WASHINGTON . . . . . 20	INITIALS AND DATE DESIGNED TW 08-01-2022 CHECKED TW 09-30-2022	INITIALS AND DATE REVIEWED: DES. # CONST. # SDOT # PROJ. MGR. #		SOUTH FORK TOLT RESERVOIR DEBRIS BOOM REPLACEMENT	PC C117069 CO #	
		BY: CITY PURCHASING & CONTRACTING SERVICES DIRECTOR	DRAWN SMS 09-30-2022 CHECKED TW 09-30-2022	RECEIVED # REVISED AS BUILT //			VPI # 912-32 L-004	
ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE CITY OF SEATTLE STANDARD PLANS AND SPECIFICATIONS AND OTHER DOCUMENTS CALLED FOR IN SECTION 9-02.3 OF THE PROJECT MANUAL.						STATE OF WASHINGTON LICENSED LANDSCAPE ARCHITECT JAMES A. BRENNAN CERTIFICATE NO. 453 EXPIRES ON 06/01/21	ORDINANCE NO. # PW NO. # # SCALE: 1:20	SHEET 49 OF 59

DATE	MARK	NATURE	REVISIONS

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\*912-32##\*



### LEGEND

- TYPE 4 : EDGE / LOW GROWING MIX (2,778 SF)
- TYPE 5 : SLOPE / SHORE EDGE (1,116 SF)
- TYPE 6 : SHADY / DRY (3,812 SF)
- NATIVE SEED MIX (431 SF) (SEE SPECS)
- BOOM SWING EXISTING NATIVE VEGETATION MANAGEMENT AREA (3,192 SF)
- NATIVE RE-GROWTH AREA (693 SF)
- PROPOSED ACCESS ROAD (4,902 SF)
- HABITAT LOGS (SALVAGED)
- CRITICAL AREA SIGN

- ### NOTE :
- SEE SHEET L-006 FOR PLANT SCHEDULE.
  - SEE IRRIGATION SPECIFICATION FOR BIDDER DESIGNED TEMPORARY IRRIGATION REQUIREMENTS.
  - LOGS FROM CLEARING ACTIVITIES, NOT REQUIRED FOR HABITAT LOGS, MAY BE CHIPPED FOR USE AS MULCH AND/OR SOIL AMENDMENT ON SITE.
  - LOGS SHALL NOT BE PLACED IN ROADSIDE DITCHES, TYPICAL.
  - SEE CIVIL, CS102, CLEARING AND EXCAVATION PLAN.

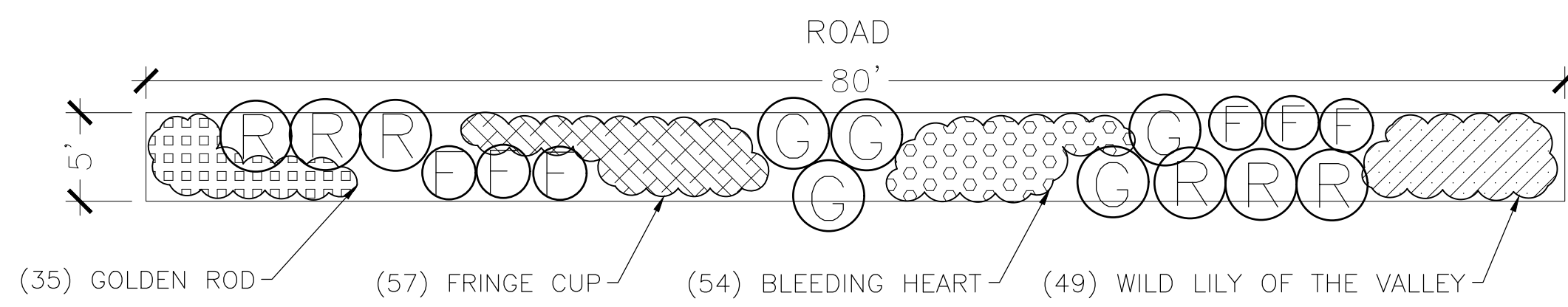
REVISED 90% SUBMITTAL (NOT FOR CONSTRUCTION)

LEFT SHORE PLANTING PLAN  
SCALE: 1:20

LEFT SHORE PLANTING PLAN

		APPROVED FOR ADVERTISING <b>LIZ ALZEER</b> DEPARTMENT OF FINANCE & ADMINISTRATIVE SERVICES SEATTLE, WASHINGTON . . . . . 20 . . . . .	INITIALS AND DATE DESIGNED TW 08-01-2022 CHECKED TW 09-30-2022	INITIALS AND DATE REVIEWED: DES. #                    CONST. # SDOT #                  PROJ. MGR. #		ORDINANCE NO. #                    PW NO. # # SCALE: 1:20	SOUTH FORK TOLT RESERVOIR DEBRIS BOOM REPLACEMENT	PC C117069 CO #
		BY: CITY PURCHASING & CONTRACTING SERVICES DIRECTOR	DRAWN SMS 09-30-2022 CHECKED TW 09-30-2022	RECEIVED # REVISED AS BUILT //				STATE OF WASHINGTON LICENSED LANDSCAPE ARCHITECT JAMES A. BRENNAN CERTIFICATE NO. 459 EXPIRES ON 06/01/27

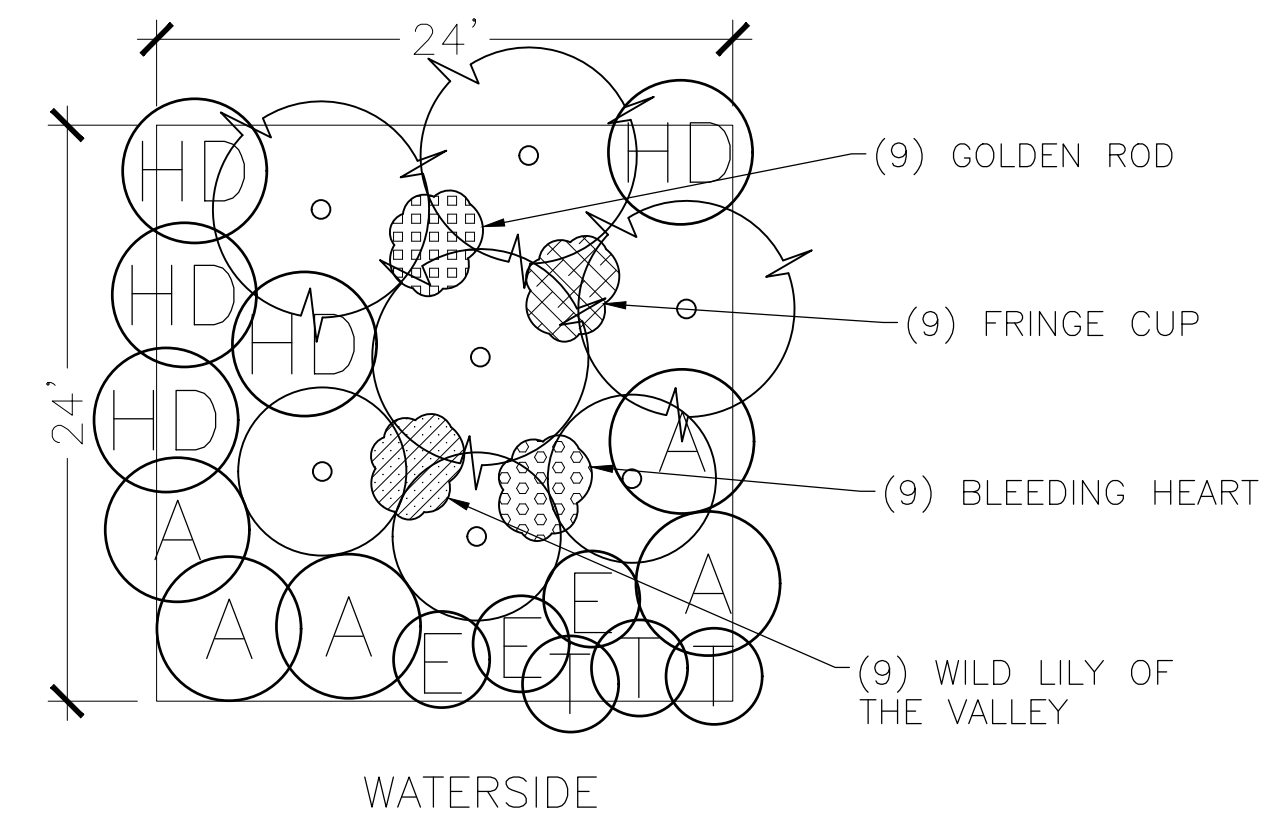
TYPE 4 : EDGE / LOW GROWING MIX



TYPICAL 400 SF AREA

CONIFEROUS TREES, TYP.	TOTAL : 0		
DECIDUOUS TREES, TYP.	TOTAL : 0		
SHRUBS	TOTAL : 11		
QTY.	SCIENTIFIC NAME	COMMON NAME	SPACING
6	RIBES BRACTEOSUM	STINK CURRANT	4' O.C.
5	ROSA GYMNOCARPA	WOOD ROSE	4' O.C.
GROUNDCOVER	TOTAL : 201		
54	DICENTRA FORMOSA	PACIFIC BLEEDING HEART	12" O.C.
49	MAIANthemum DILATATUM	WILD LILY OF THE VALLEY	12" O.C.
6	POLYSTICHUM MUNITUM	WESTERN SWORD FERN	36" O.C.
35	SOLIDAGO CANADENSIS	GOLDEN ROD	12" O.C.
57	TELLIMA GRANDIFLORA	FRINGE CUP	12" O.C.

TYPE 5 : SLOPE / SHORE EDGE

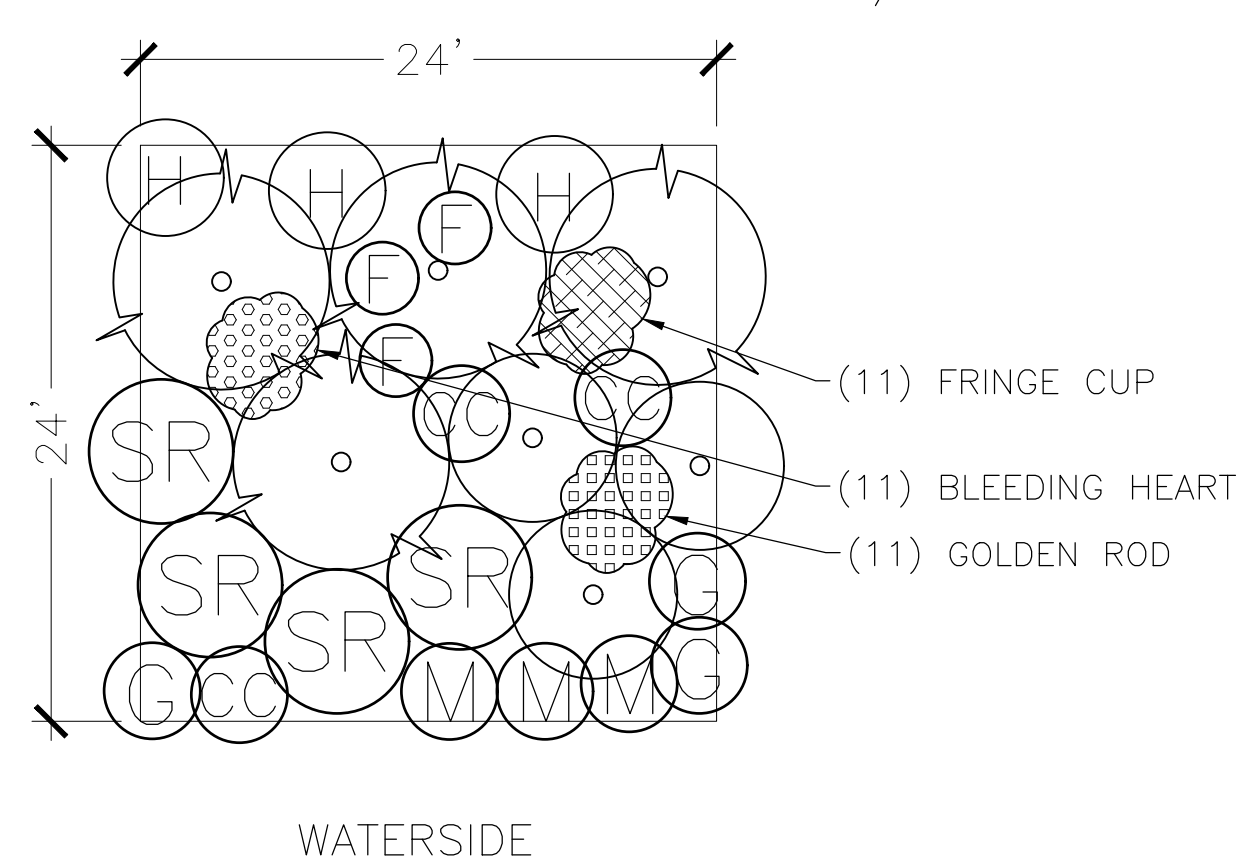


TYPICAL 576 SF AREA

CONIFEROUS TREES, TYP.	TOTAL : 4		
DECIDUOUS TREES, TYP.	TOTAL : 3		
SHRUBS	TOTAL : 16		
QTY.	SCIENTIFIC NAME	COMMON NAME	SPACING
5	AMELANCHIER ALNIFOLIA	SERVICEBERRY	6' O.C.
5	HOLODISCUS DISCOLOR	OCEAN SPRAY	6' O.C.
3	RUBUS SPECTABILIS	SALMONBERRY	4' O.C.
3	RUBUS PARVIFLORUS	THIMBLEBERRY	4' O.C.
GROUNDCOVER	TOTAL : 36		
9	DICENTRA FORMOSA	PACIFIC BLEEDING HEART	12" O.C.
9	MAIANthemum DILATATUM	WILD LILY OF THE VALLEY	12" O.C.
9	SOLIDAGO CANADENSIS	GOLDEN ROD	12" O.C.
9	TELLIMA GRANDIFLORA	FRINGE CUP	12" O.C.

TYPICAL 576 SF AREA

TYPE 6 : SHADY / DRY



CONIFEROUS TREES, TYP.	TOTAL : 4		
DECIDUOUS TREES, TYP.	TOTAL : 3		
SHRUBS	TOTAL : 16		
QTY.	SCIENTIFIC NAME	COMMON NAME	SPACING
3	CORYLUS CORNUTA	BEAKED HAZELNUT	4' O.C.
3	MAHONIA AQUIFOLIUM	TALL OREGON GRAPE	4' O.C.
3	ROSA GYMNOCARPA	WOOD ROSE	4' O.C.
4	SAMBUCUS RACEMOSA	RED ELDERBERRY	6' O.C.
3	SPIRAEA DOUGLASII	HARDHACK	4' O.C.
GROUNDCOVER	TOTAL : 36		
11	DICENTRA FORMOSA	PACIFIC BLEEDING HEART	12" O.C.
3	POLYSTICHUM MUNITUM	WESTERN SWORD FERN	36" O.C.
11	SOLIDAGO CANADENSIS	GOLDEN ROD	12" O.C.
11	TELLIMA GRANDIFLORA	FRINGE CUP	12" O.C.

NOTES :

- SEE PLANTING PLAN (L-005) AND PLANT SCHEDULE (L-007) FOR TREE LOCATIONS, SPECIES AND TOTAL QUANTITIES.

REVISED 90% SUBMITTAL (NOT FOR CONSTRUCTION)

LEFT SHORE PLANTING TYPES

		APPROVED FOR ADVERTISING LIZ ALZEER DEPARTMENT OF FINANCE & ADMINISTRATIVE SERVICES SEATTLE, WASHINGTON . . . . . 20 . . . . .	INITIALS AND DATE DESIGNED TW 08-01-2022 CHECKED TW 09-30-2022	INITIALS AND DATE REVIEWED: DES. # _____ CONST. # _____ SDOT # _____ PROJ. MGR. # _____		SOUTH FORK TOLT RESERVOIR DEBRIS BOOM REPLACEMENT	PC C117069 CO # _____
		BY: CITY PURCHASING & CONTRACTING SERVICES DIRECTOR	DRAWN SMS 09-30-2022 CHECKED TW 09-30-2022	RECEIVED # _____ REVISED AS BUILT # _____			VPI # 912-32 L-006 SHEET 51 OF 59

9/30/2022 11:39 AM SahanaMysoreSathiyana  
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 D A T E   M A R K   N A T U R E   R E V I S I O N S  
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NATURE	MARK	
REVISIONS		
Vault	Serial #	DATE
38810		

LEFT SHORE CONIFEROUS TREES					
SPACE : 9'-15' O.C.					
TOTAL: 45					
QTY.	SCIENTIFIC NAME	COMMON NAME	SIZE	CONDITION	SPACING
12	PICEA SITCHENIS	SITKA SPRUCE	1 GAL.	CONTAINER	AS SHOWN
15	PSEUDOTSUGA MENZIESII	DOUGLAS FIR	1 GAL.	CONTAINER	AS SHOWN
9	TSUGA HETEROPHYLLA	WESTERN HEMLOCK	1 GAL.	CONTAINER	AS SHOWN
9	ABIES GRANDIS	GRAND FIR	1 GAL.	CONTAINER	AS SHOWN

LEFT SHORE DECIDUOUS TREES					
SPACE : 9'- 15' O.C.					
TOTAL: 19					
QTY.	SCIENTIFIC NAME	COMMON NAME	SIZE	CONDITION	SPACING
9	PRUNUS EMARGINATA	BITTER CHERRY	1 GAL.	CONTAINER	AS SHOWN
10	ALNUS RUBRA	RED ALDER	1 GAL.	CONTAINER	AS SHOWN

LEFT SHORE SHRUBS					
SPACE : 4'- 6' O.C.					
TOTAL: 216					
QTY.	SCIENTIFIC NAME	COMMON NAME	SIZE	CONDITION	SPACING
10	AMELANCHIER ALNIFOLIA	SERVICEBERRY	1 GAL.	CONTAINER	AS SHOWN
21	CORYLUS CORNUTA	BEAKED HAZELNUT	1 GAL.	CONTAINER	AS SHOWN
10	HOLODISCUS DISCOLOR	OCEAN SPRAY	1 GAL.	CONTAINER	AS SHOWN
43	RIBES BRACTEOSUM	STINK CURRANT	1 GAL.	CONTAINER	AS SHOWN
21	MAHONIA AQUIFOLIUM	TALL OREGON GRAPE	1 GAL.	CONTAINER	AS SHOWN
56	ROSA GYMNOCARPA	WOOD ROSE	1 GAL.	CONTAINER	AS SHOWN
6	RUBUS PARVIFLORUS	THIMBLEBERRY	1 GAL.	CONTAINER	4' O.C.
5	RUBUS SPECTABILIS	SALMONBERRY	1 GAL.	CONTAINER	4' O.C.
21	SPIRAEA DOUGLASII	HARDHACK	1 GAL.	CONTAINER	AS SHOWN
23	SAMBUCUS RACEMOSA	RED ELDERBERRY	1 GAL.	CONTAINER	6' O.C.

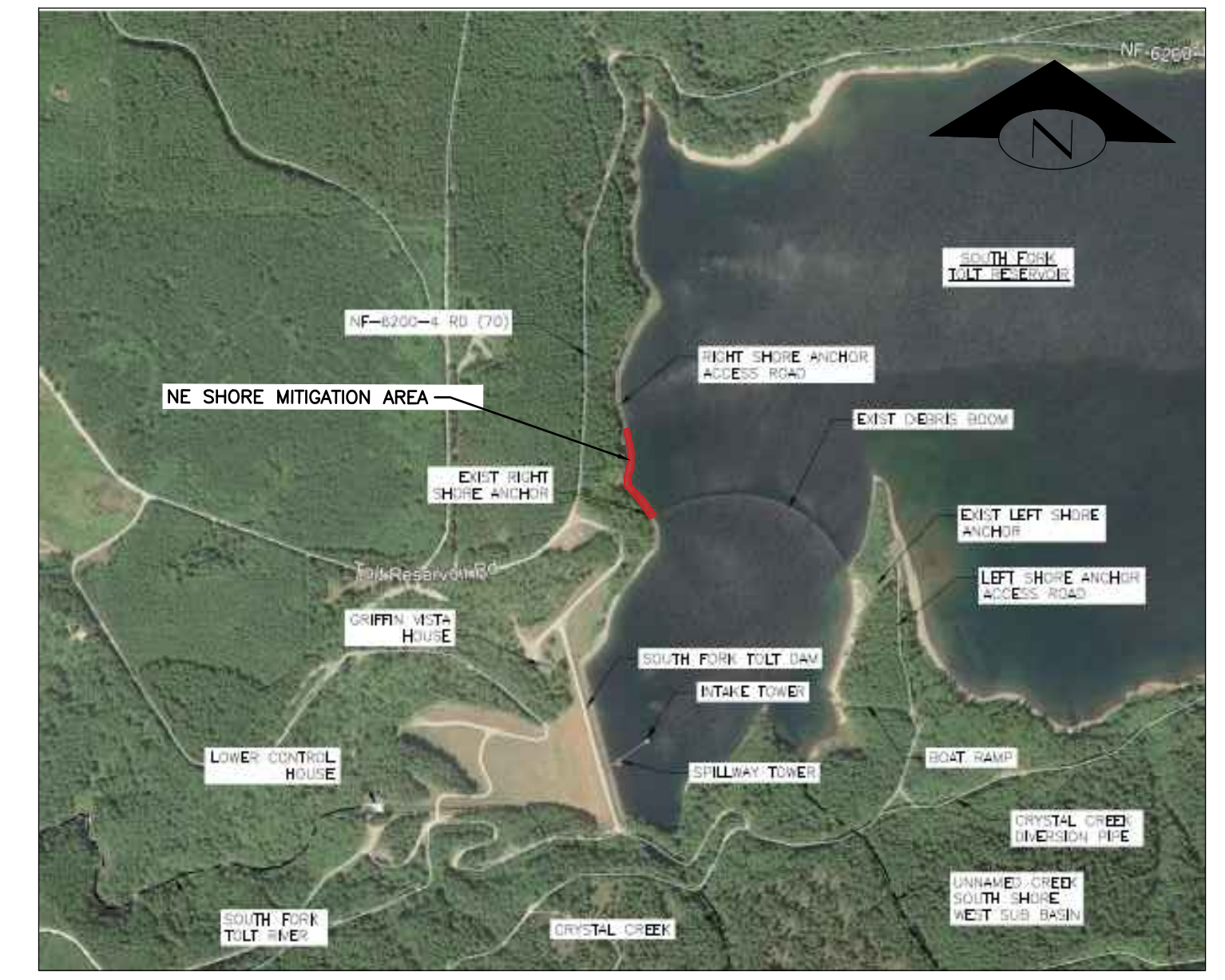
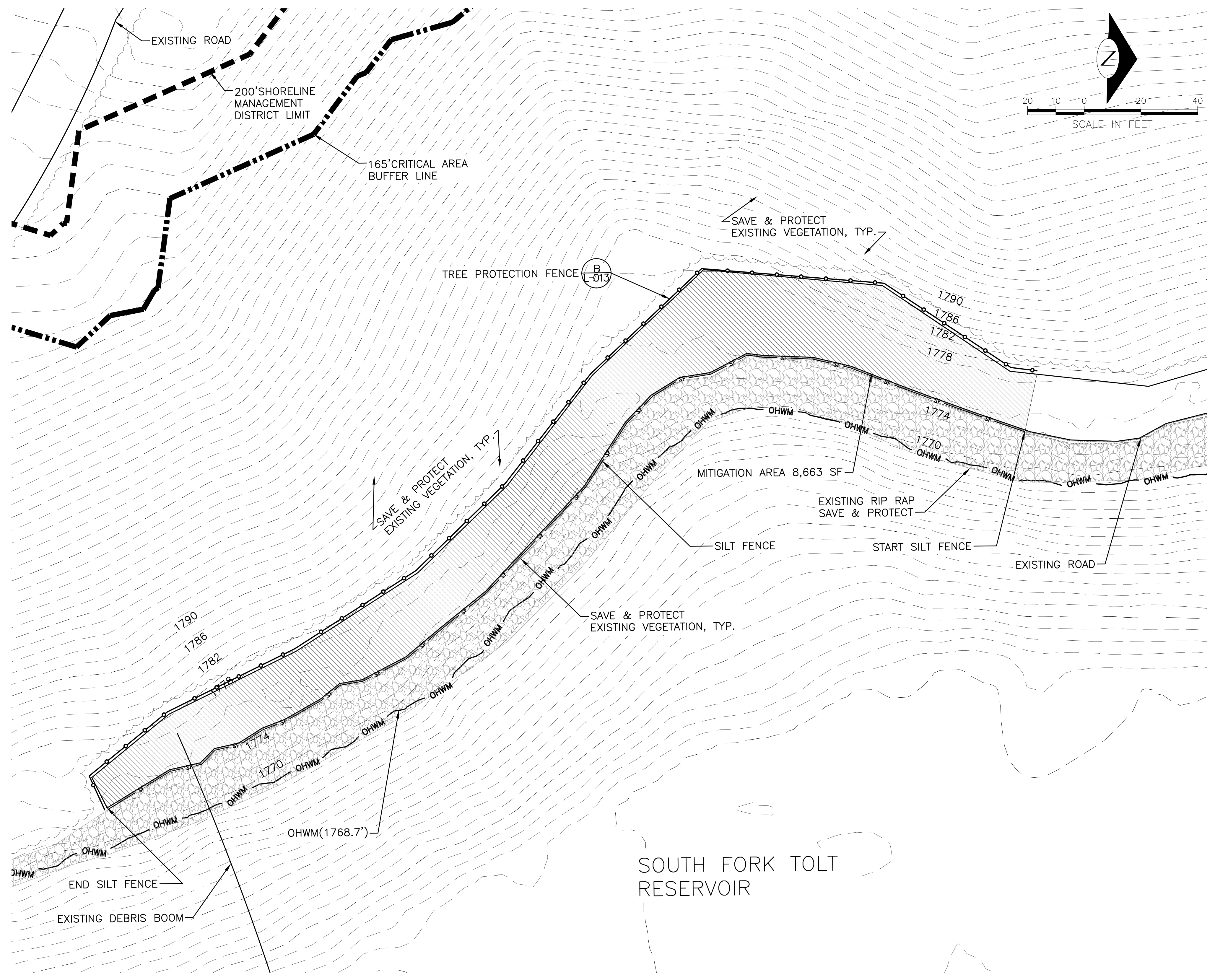
LEFT SHORE GROUNDCOVERS & FERNS					
SPACE : 12"- 36" O.C.					
TOTAL: 1706					
QTY.	SCIENTIFIC NAME	COMMON NAME	SIZE	CONDITION	SPACING
466	DICENTRA FORMOSA	PACIFIC BLEEDING HEART	4" POT	CONTAINER	12" O.C.
358	MAIANthemum DILATATUM	WILD LILY OF THE VALLEY	4" POT	CONTAINER	12" O.C.
60	POLYSTICHUM MUNITUM	SWORD FERN	4" POT	CONTAINER	36" O.C.
334	SOLIDAGO CANADENSIS	GOLDEN ROD	4" POT	CONTAINER	12" O.C.
488	TELLIMA GRANDIFLORA	FRINGE CUP	4" POT	CONTAINER	12" O.C.
NATIVE SEED MIX					

REVISED 90% SUBMITTAL (NOT FOR CONSTRUCTION)

LEFT SHORE PLANT SCHEDULE

		APPROVED FOR ADVERTISING LIZ ALZEER DEPARTMENT OF FINANCE & ADMINISTRATIVE SERVICES SEATTLE, WASHINGTON . . . . . 20 . . . . .	INITIALS AND DATE DESIGNED TW 08-01-2022 CHECKED TW 09-30-2022	INITIALS AND DATE REVIEWED: DES. # CONST. # SDOT # PROJ. MGR. #			SOUTH FORK TOLT RESERVOIR DEBRIS BOOM REPLACEMENT	PC C117069 CO #
		BY: . . . . . CITY PURCHASING & CONTRACTING SERVICES DIRECTOR	DRAWN SMS 09-30-2022 CHECKED TW 09-30-2022	RECEIVED # REVISED AS BUILT #				ORDINANCE NO. # PW NO. # # SCALE:NONE

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 VAULT SERIAL # DATE MARK NATURE REVISIONS MADE CHK'D REV'D  
 38810



**KEY PLAN**  
SCALE: NTS

**LEGEND**

- TREE PROTECTION FENCE
- SILT FENCE
- REMOVE/DEMOLISH EXISTING ROAD (8,663 SF)
- EXISTING RIP RAP

**NOTES:**

1. BASE IS GIS DATA ONLY.
2. GIS DATUM CONVERTED TO MATCH SURVEY DATUM (NAVD 88)
3. NO DISTURBANCE PERMITTED BELOW OHWM (ELEV.1768').
4. SAVE AND PROTECT EXISTING RIP RAP.
5. SAVE & PROTECT EXISTING VEGETATION AND EXISTING SLOPES.
6. ROAD REMOVAL /DEMOLITION SHALL CONSIST OF EXCAVATION AND REMOVAL OF 2 FOOT DEPTH ROAD SURFACE AND BASE AGGREGATE MATERIAL.
7. INSTALL SILT FENCE AT EDGE OF EXCAVATION, SHORE-SIDE ONLY. SEE CIVIL FOR FILTER FENCE DETAIL.

REVISED 90% SUBMITTAL (NOT FOR CONSTRUCTION) NE RIGHT SHORE DEMOLITION & TREE PROTECTION PLAN  
SCALE: 1:20

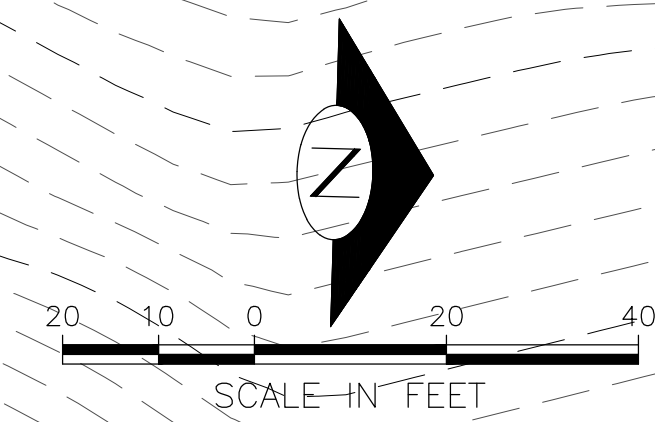
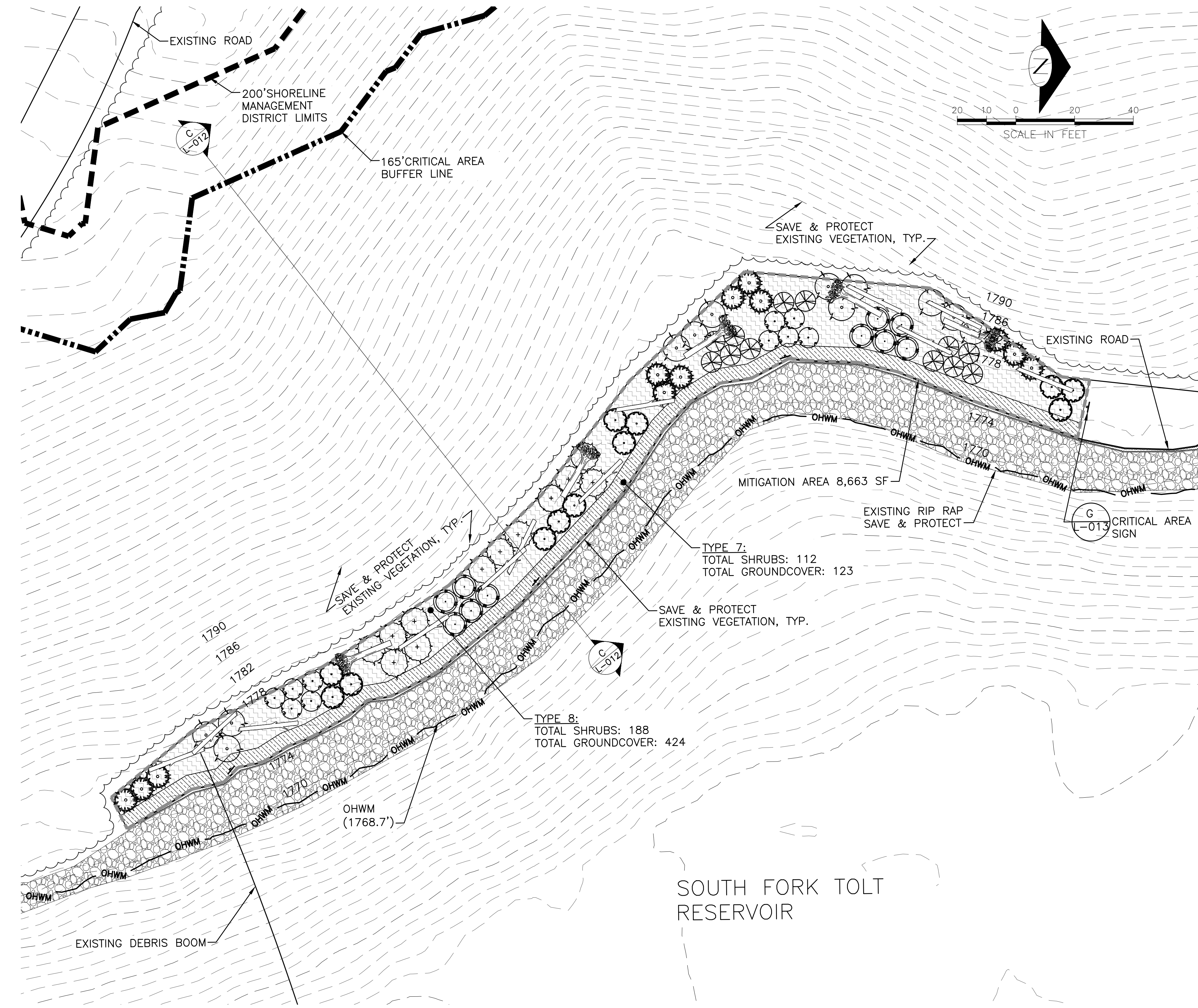
NE RIGHT SHORE DEMOLITION & TREE PROTECTION PLAN

		APPROVED FOR ADVERTISING <b>LIZ ALZEER</b> DEPARTMENT OF FINANCE & ADMINISTRATIVE SERVICES SEATTLE, WASHINGTON 20	INITIALS AND DATE DESIGNED TW 08-01-2022 CHECKED TW 09-30-2022	INITIALS AND DATE REVIEWED: DES. #                    CONST. # SDOT #                  PROJ. MGR. #		ORDINANCE NO. #                    PW NO. # # SCALE:	<b>SOUTH FORK TOLT RESERVOIR DEBRIS BOOM REPLACEMENT</b>	PC C117069 CO #
		BY: CITY PURCHASING & CONTRACTING SERVICES DIRECTOR	DRAWN SMS 09-30-2022 CHECKED TW 09-30-2022	RECEIVED # REVISED AS BUILT #				VPI # 912-32 <b>L-008</b>

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KEY PLAN  
SCALE: NTS

- LEGEND:**
- TYPE 7 : SHADY / SHRUBS (1,943 SF)
  - TYPE 8 : SHADY / SHORE BUFFER (6,720 SF)
  - EXISTING RIP RAP
  - HABITAT LOGS (SALVAGED)
  - CRITICAL AREA SIGN

- NOTES:**
1. BASE IS GIS DATA ONLY.
  2. 1:1 REPLACEMENT FOR LEFT SHORE ROAD & BOOM SWING PERMANENT IMPACT AREA.
  3. GIS DATUM CONVERTED TO MATCH SURVEY DATUM (NAVD 88).
  4. SEE SHEET L-011 FOR PLANT SCHEDULE AND TREE SYMBOL LEGEND.
  5. PLANTING AREA LIMITS ARE AT TOE OF EXISTING SLOPE.
  6. RIP EXISTING SOIL TO 24" DEPTH, PLACE 24" OF TOPSOIL IN 6" LIFTS. TILL INITIAL 6" TOPSOIL TO 12" DEPTH.

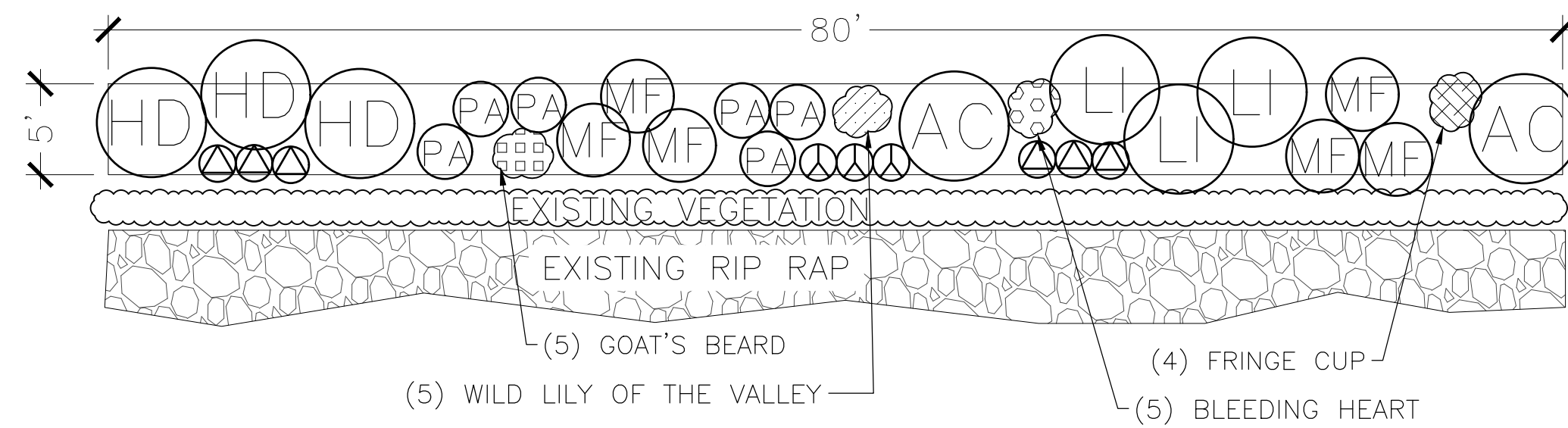
REVISED 90% SUBMITTAL (NOT FOR CONSTRUCTION) NE RIGHT SHORE PLANTING PLAN

SCALE: 1:20

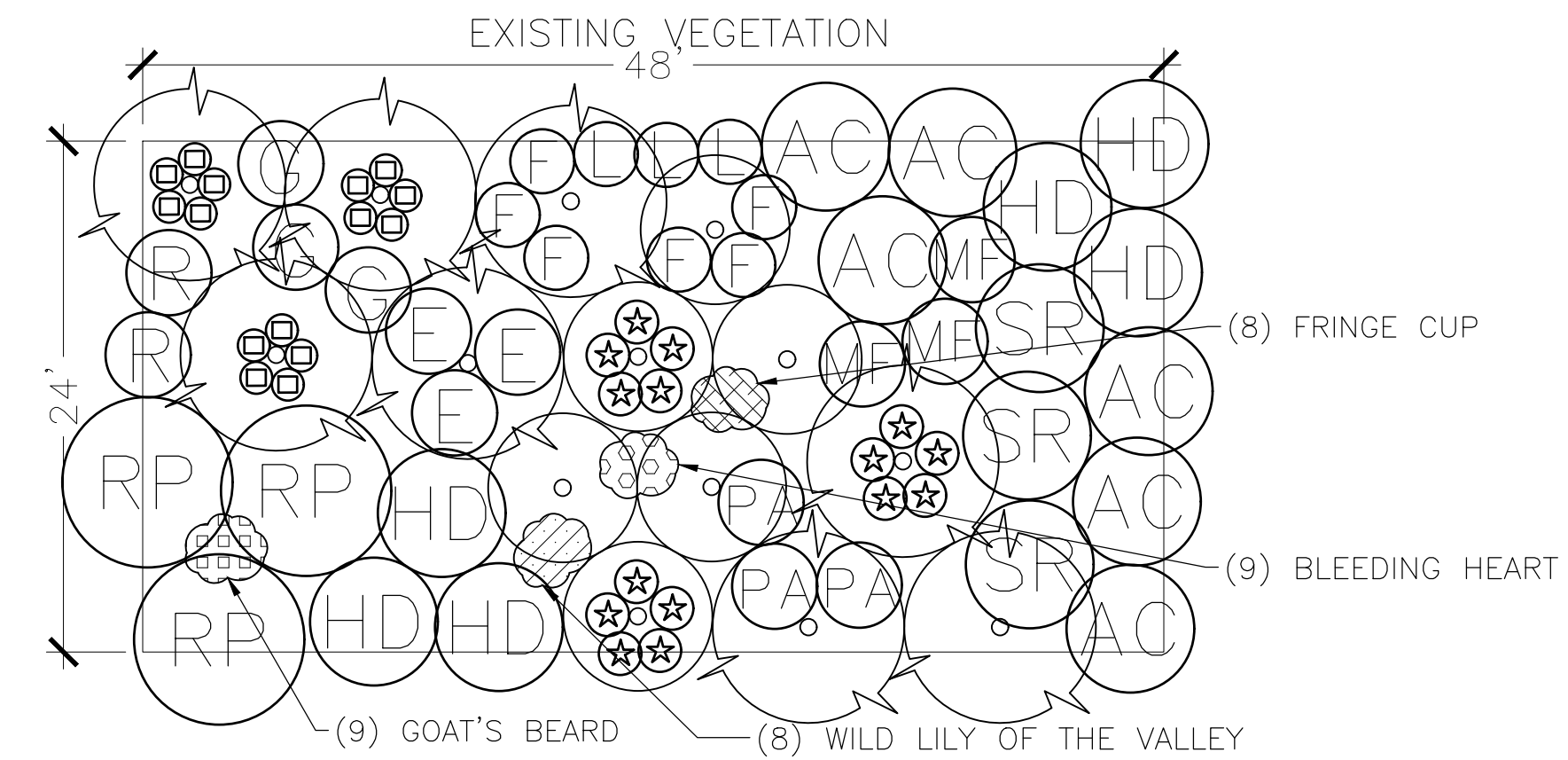
NE RIGHT SHORE PLANTING PLAN

		APPROVED FOR ADVERTISING LIZ ALZEER DEPARTMENT OF FINANCE & ADMINISTRATIVE SERVICES SEATTLE, WASHINGTON 20	INITIALS AND DATE DESIGNED TW 08-01-2022 CHECKED TW 09-30-2022	INITIALS AND DATE REVIEWED: DES. #                    CONST. # SDOT #                    PROJ. MGR. #		ORDINANCE NO. #                    PW NO. # # SCALE:	SOUTH FORK TOLT RESERVOIR DEBRIS BOOM REPLACEMENT	PC C117069 CO #
		BY: CITY PURCHASING & CONTRACTING SERVICES DIRECTOR	DRAWN SMS 09-30-2022 CHECKED TW 09-30-2022	RECEIVED # REVISED AS BUILT #				VPI # 912-32 L-009

 TYPE 7 : SHADY/SHRUBS BUFFER



 TYPE 8 : SHADY/SHORE BUFFER



TYPICAL 400 SF AREA

	CONIFEROUS TREES, TYP.	TOTAL : 0	
	DECIDUOUS TREES, TYP.	TOTAL : 0	
	SHRUBS	TOTAL : 23	
	2 ACER CIRCINATUM	VINE MAPLE	6" O.C.
	3 HOLODISCUS DISCOLOR	OCEAN SPRAY	6" O.C.
	3 LONICERA INVOLUCRATA	BLACK TWINBERRY	6" O.C.
	6 MENZIESIA FERRUGINEA	FALSE AZALEA	4' O.C.
	3 SALIX SCOULERIANA	SCOULER'S WILLOW	24" O.C.
	6 SALIX SITCHENSIS	SITKA WILLOW	24" O.C.
	GROUNDCOVER	TOTAL : 25	
	5 ARUNCUS DIOICUS	GOAT'S BEARD	12" O.C.
	5 DICENTRA FORMOSA	PACIFIC BLEEDING HEART	12" O.C.
	5 MAIANthemum DILATATUM	WILD LILY OF THE VALLEY	12" O.C.
	6 PTERIDIUM AQUILINIUM	BRACKEN FERN	36" O.C.
	4 TELLIMA GRANDIFLORA	FRINGE CUP	12" O.C.

TYPICAL 1152 SF AREA

	CONIFEROUS TREES, TYP.	TOTAL : 8	
	DECIDUOUS TREES, TYP.	TOTAL : 6	
	SHRUBS	TOTAL : 32	
	6 ACER CIRCINATUM	VINE MAPLE	6" O.C.
	6 HOLODISCUS DISCOLOR	OCEAN SPRAY	6" O.C.
	3 MENZIESIA FERRUGINEA	FALSE AZALEA	4' O.C.
	3 RHAMNUS PURSHIANA	CASCARA	9' O.C.
	2 RIBES BRACTEOSUM	STINK CURRANT	5' O.C.
	3 ROSA GYMNOCARPA	WOOD ROSE	4' O.C.
	3 RUBUS SPECTABILIS	SALMONBERRY	4' O.C.
	3 RUBUS LEUCODERMIS	BLACK RASPBERRY	3' O.C.
	3 SAMBUCUS RACEMOSA	RED ELDERBERRY	6' O.C.
	GROUNDCOVER	TOTAL : 73	
	9 ARUNCUS DIOICUS	GOAT'S BEARD	12" O.C.
	15 ATHYRIUM FILIX FEMINA	LADY FERN	18" O.C.
	15 BLECHNUM SPICANT	DEER FERN	24" O.C.
	9 DICENTRA FORMOSA	PACIFIC BLEEDING HEART	12" O.C.
	8 MAIANthemum DILATATUM	WILD LILY OF THE VALLEY	12" O.C.
	6 POLYSTICHUM MUNITUM	SWORD FERN	36" O.C.
	3 PTERIDIUM AQUILINIUM	BRACKEN FERN	36" O.C.
	8 TELLIMA GRANDIFLORA	FRINGE CUP	12" O.C.

NOTES :

- SEE PLANTING PLAN (L-009) AND PLANT SCHEDULE (L-011) FOR TREE LOCATIONS, SPECIES AND TOTAL QUANTITIES.

REVISED 90% SUBMITTAL (NOT FOR CONSTRUCTION)

NE RIGHT SHORE PLANTING TYPES



APPROVED FOR ADVERTISING  
LIZ ALZEER  
DEPARTMENT OF FINANCE & ADMINISTRATIVE SERVICES  
SEATTLE, WASHINGTON 20

INITIALS AND DATE  
DESIGNED TW 08-01-2022  
CHECKED TW 09-30-2022  
DRAWN SMS 09-30-2022  
CHECKED TW 09-30-2022

INITIALS AND DATE  
REVIEWED: DES. # CONST. #  
SDOT # PROJ. MGR. #  
RECEIVED #  
REVISED AS BUILT #



ORDINANCE NO. # PW NO. #  
SCALE NONE

SOUTH FORK TOLT  
RESERVOIR DEBRIS BOOM  
REPLACEMENT

PC C117069  
CO #  
VPI # 912-32  
L-010  
SHEET 55 OF 59

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 \*912-32##\*  
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NE SHORE CONIFEROUS TREES						SPACE : 9'-15' O.C.	TOTAL: 48
QTY.	SCIENTIFIC NAME	COMMON NAME	SIZE	CONDITION	SPACING		
12	PICEA SITCHENIS	SITKA SPRUCE	1 GAL.	CONTAINER	AS SHOWN		
12	PSEUDOTSUGA MENZIESII	DOUGLAS FIR	1 GAL.	CONTAINER	AS SHOWN		
12	THUJA PLICATA	WESTERN RED CEDAR	1 GAL.	CONTAINER	AS SHOWN		
12	TSUGA HETEROPHYLLA	WESTERN HEMLOCK	1 GAL.	CONTAINER	AS SHOWN		





NE SHORE DECIDUOUS TREES						SPACE : 7'- 8' O.C.	TOTAL: 32
QTY.	SCIENTIFIC NAME	COMMON NAME	SIZE	CONDITION	SPACING		
12	ALNUS RUBRA	RED ALDER	1 GAL.	CONTAINER	8' O.C.		
10	POPULUS TRICHOCARPA	BLACK COTTONWOOD	1 GAL.	CONTAINER	8' O.C.		
10	PRUNUS EMARGINATA	BITTER CHERRY	1 GAL.	CONTAINER	7' O.C.		

NE SHORE SHRUBS						SPACE : 3'- 6' O.C.	TOTAL: 300
QTY.	SCIENTIFIC NAME	COMMON NAME	SIZE	CONDITION	SPACING		
41	ACER CIRCINATUM	VINE MAPLE	1 GAL.	CONTAINER	6' O.C.		
49	HOLODISCUS DISCOLOR	OCEAN SPRAY	1 GAL.	CONTAINER	6' O.C.		
15	LONICERA INVOLUCRATA	BLACK TWINBERRY	1 GAL.	CONTAINER	7' O.C.		
48	MENZIESIA FERRUGINEA	FALSE AZALEA	1 GAL.	CONTAINER	4' O.C.		
18	RHAMNUS PURSHIANA	CASCARA	1 GAL.	CONTAINER	10' O.C.		
12	RIBES BRACTEOSUM	STINK CURRANT	1 GAL.	CONTAINER	5' O.C.		
18	ROSA GYMNOCARPA	WOOD ROSE	1 GAL.	CONTAINER	4' O.C.		
18	RUBUS SPECTABILIS	SALMONBERRY	1 GAL.	CONTAINER	4' O.C.		
18	RUBUS LEUCODERMIS	BLACK RASPBERRY	1 GAL.	CONTAINER	3' O.C.		
18	SAMBUCUS RACEMOSA	RED ELDERBERRY	1 GAL.	CONTAINER	6' O.C.		
15	SALIX SCOULERIANA	SCOULER'S WILLOW		LIVE STAKES	24" O.C.		
30	SALIX SITCHENSIS	SITKA WILLOW		LIVE STAKES	24" O.C.		

NE SHORE GROUNDCOVERS & FERNS						SPACE : 12"- 36" O.C.	TOTAL: 547
QTY.	SCIENTIFIC NAME	COMMON NAME	SIZE	CONDITION	SPACING		
77	ARUNCUS DIOICUS	GOAT'S BEARD	4" POT	CONTAINER	12" O.C.		
87	ATHYRIUM FILIX FEMINA	LADY FERN	4" POT	CONTAINER	18" O.C.		
87	BLECHNUM SPICANT	DEER FERN	4" POT	CONTAINER	24" O.C.		
77	DICENTRA FORMOSA	PACIFIC BLEEDING HEART	4" POT	CONTAINER	12" O.C.		
71	MAIANTHEMUM DILATATUM	WILD LILY OF THE VALLEY	4" POT	CONTAINER	12" O.C.		
36	POLYSTICHUM MUNITUM	SWORD FERN	4" POT	CONTAINER	36" O.C.		
48	PTERIDIUM AQUILINIUM	BRACKEN FERN	4" POT	CONTAINER	36" O.C.		
64	TELLIMA GRANDIFLORA	FRINGE CUP	4" POT	CONTAINER	12" O.C.		

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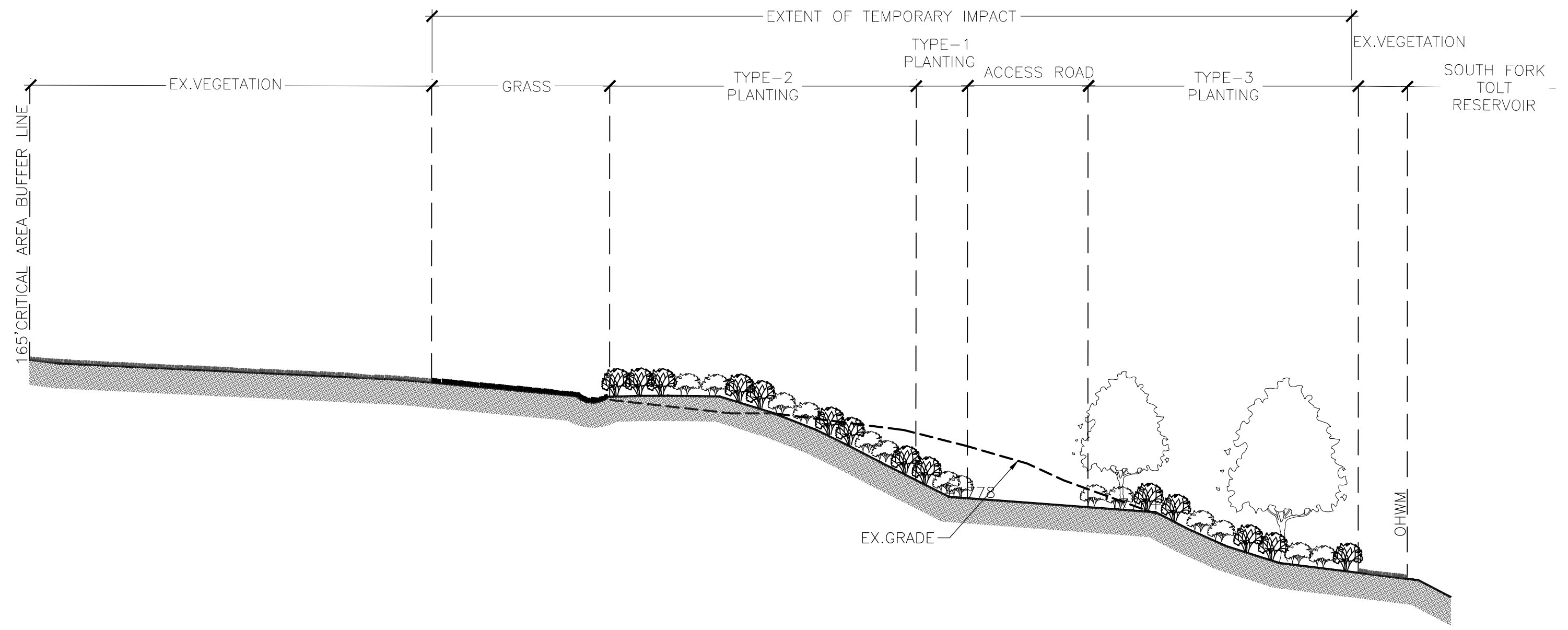
NE RIGHT SHORE PLANT SCHEDULE

 	APPROVED FOR ADVERTISING LIZ ALZEER DEPARTMENT OF FINANCE & ADMINISTRATIVE SERVICES SEATTLE, WASHINGTON . . . . . 20 . . . . . BY: _____ CITY PURCHASING & CONTRACTING SERVICES DIRECTOR	INITIALS AND DATE DESIGNED TW 08-01-2022 CHECKED TW 09-30-2022	INITIALS AND DATE REVIEWED: DES. # _____ CONST. # _____ SDOT # _____ PROJ. MGR. # _____ DRAWN SMS 09-30-2022 CHECKED TW 09-30-2022	 <small>STATE OF WASHINGTON LICENSEE LANDSCAPE ARCHITECT</small> JAMES A. BRENNAN <small>CERTIFICATE NO. 453 EXPIRES 09-30-2027</small>	 ORDINANCE NO. # _____ PW NO. # _____ # _____ SCALE: NONE	SOUTH FORK TOLT RESERVOIR DEBRIS BOOM REPLACEMENT	<table border="1" style="font-size: small;"> <tr><td>PC</td><td>C117069</td></tr> <tr><td>CO</td><td>#</td></tr> <tr><td>VPI #</td><td>912-32</td></tr> <tr><td colspan="2" style="font-size: x-small;">L-011</td></tr> <tr><td>SHEET</td><td>56 OF 59</td></tr> </table>	PC	C117069	CO	#	VPI #	912-32	L-011		SHEET	56 OF 59
		PC	C117069														
CO	#																
VPI #	912-32																
L-011																	
SHEET	56 OF 59																
ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE CITY OF SEATTLE STANDARD PLANS AND SPECIFICATIONS AND OTHER DOCUMENTS CALLED FOR IN SECTION 0-02.3 OF THE PROJECT MANUAL.																	

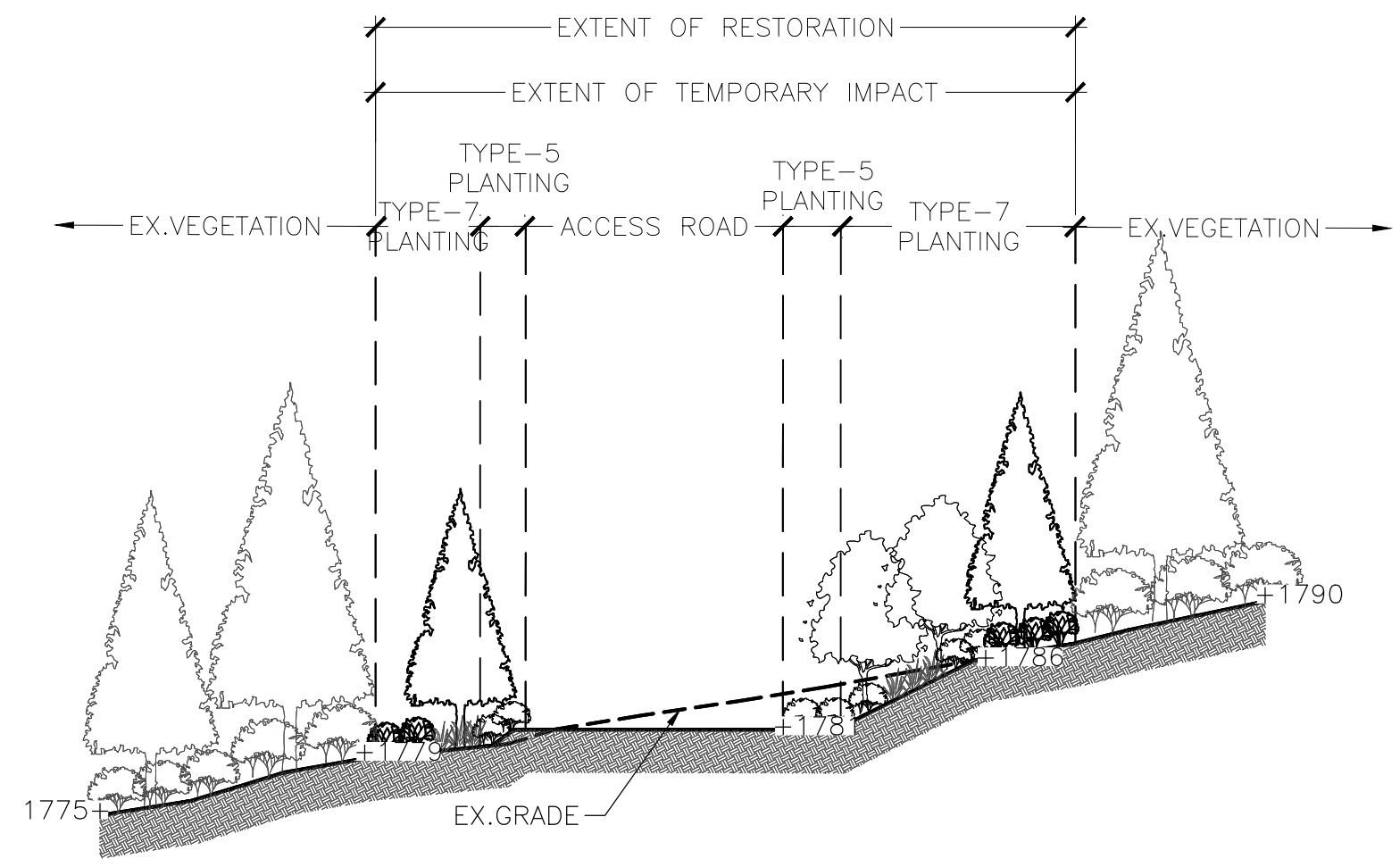
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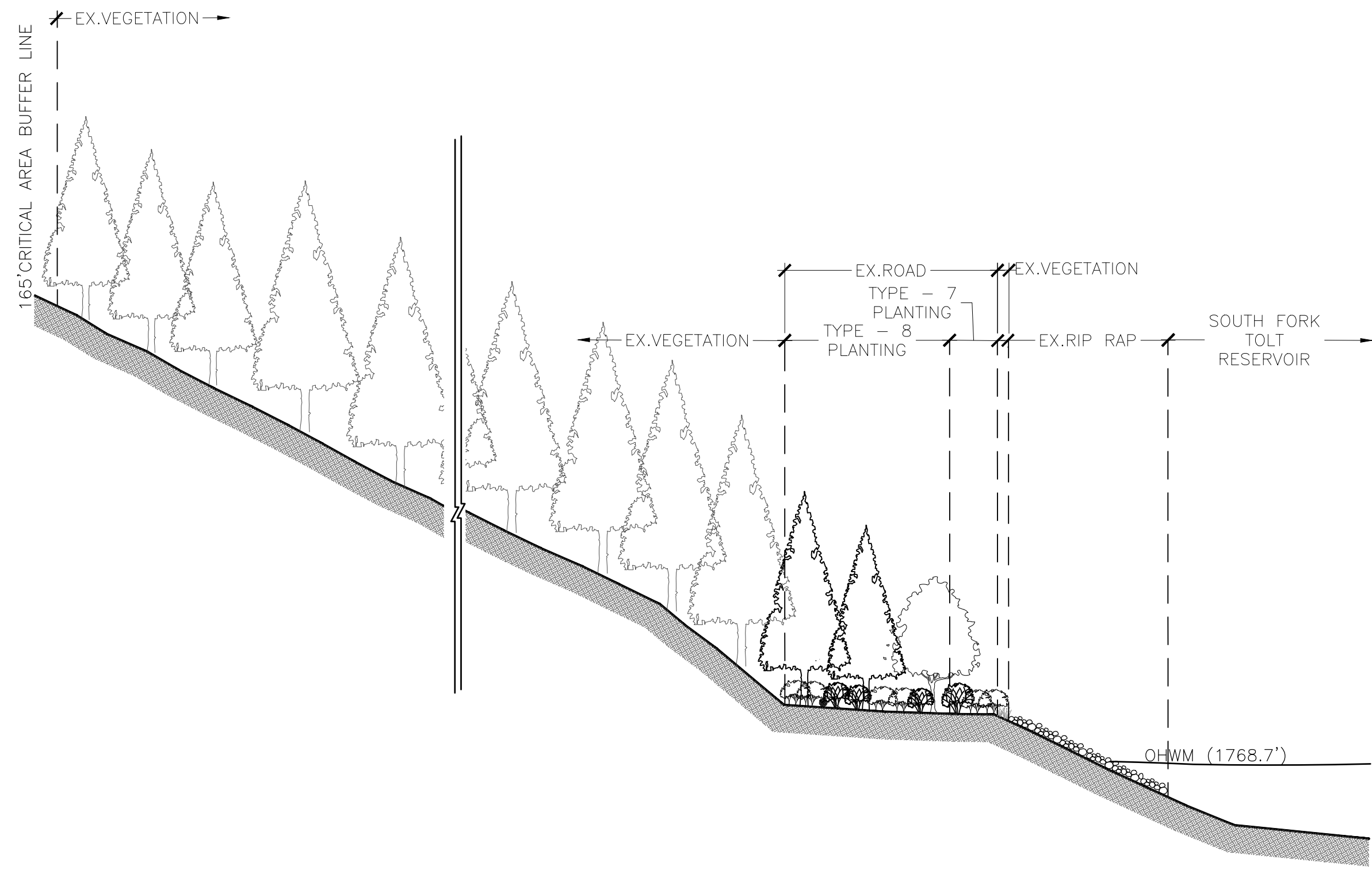
DATE	MARK	NATURE	REVISIONS



SECTION AA-RIGHT SHORE RESTORATION (A)  
SCALE: 1"=1'-0" (L-001)



SECTION BB-LEFT SHORE RESTORATION (B)  
SCALE: 1"=1'-0" (L-005)



SECTION CC - NE SHORE RESTORATION (C)  
SCALE: 1"=1'-0" (L-009)

REVISED 90% SUBMITTAL (NOT FOR CONSTRUCTION)

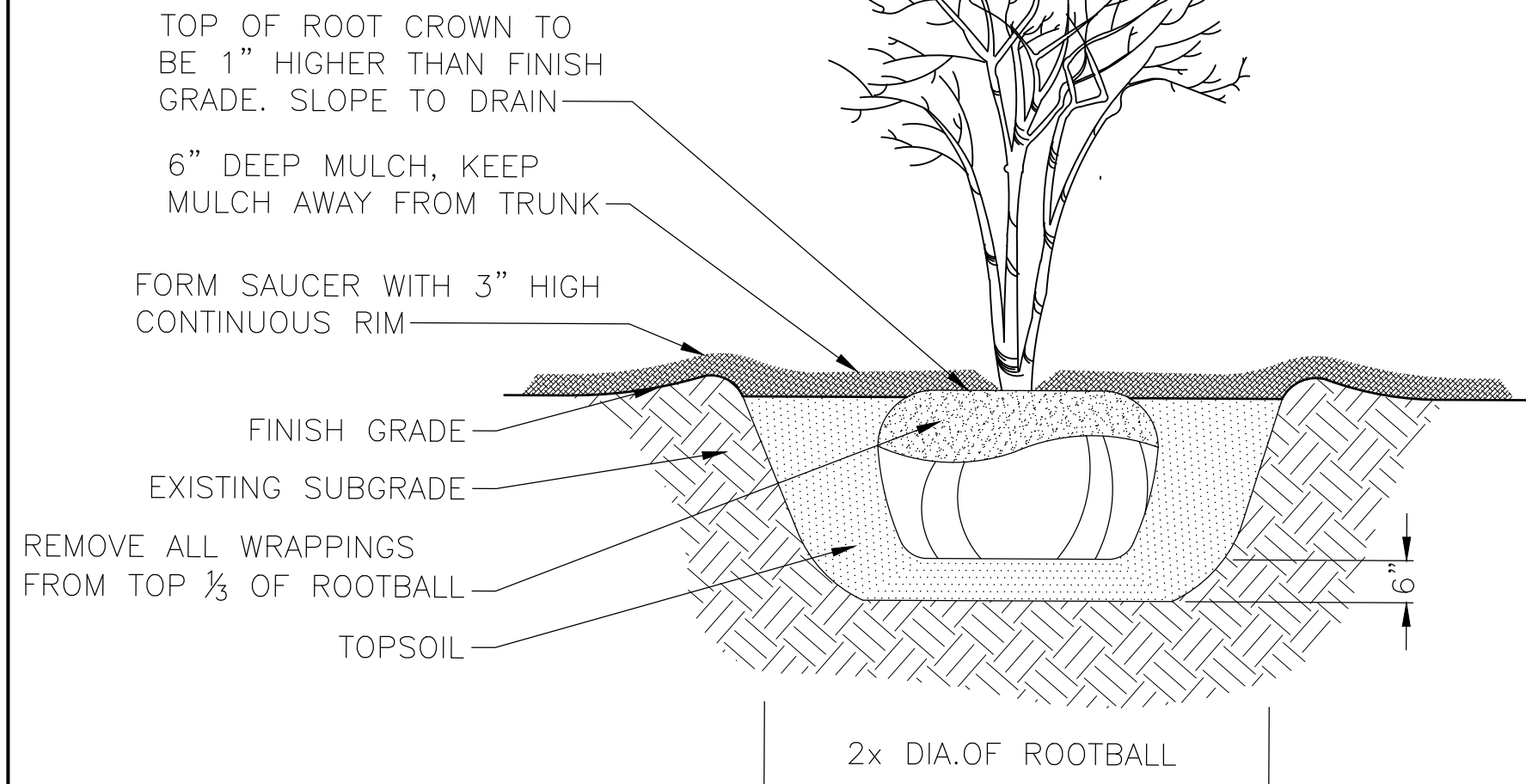
RESTORATION SECTIONS  
SCALE: 1"=1'-0"

RESTORATION SECTIONS

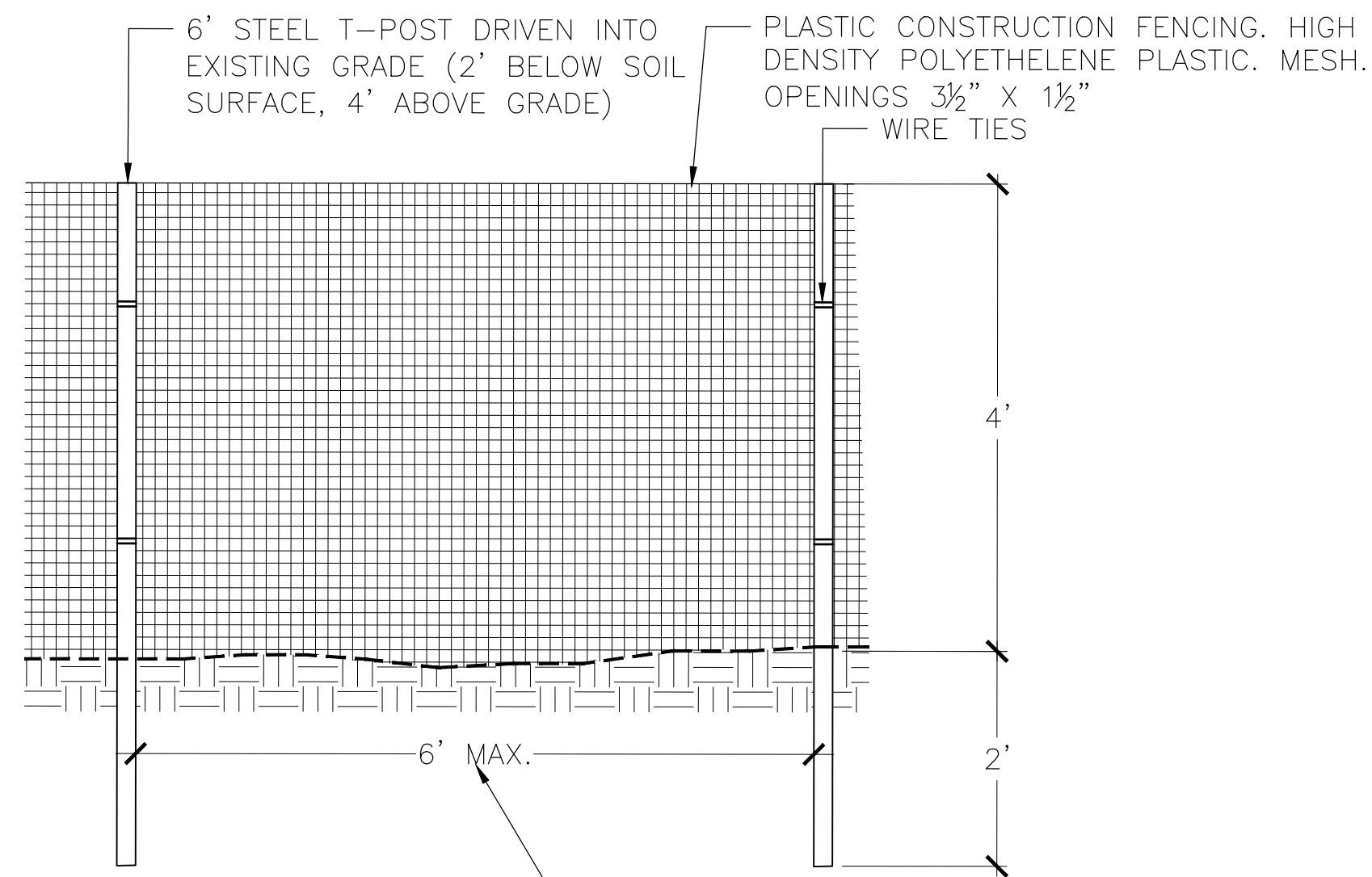
		APPROVED FOR ADVERTISING LIZ ALZEER DEPARTMENT OF FINANCE & ADMINISTRATIVE SERVICES SEATTLE, WASHINGTON 20...	INITIALS AND DATE DESIGNED TW 08-01-2022 CHECKED TW 09-30-2022	INITIALS AND DATE REVIEWED: DES. # CONST. # SDOT # PROJ. MGR. #		SOUTH FORK TOLT RESERVOIR DEBRIS BOOM REPLACEMENT	PC C117069 CO #
		BY: CITY PURCHASING & CONTRACTING SERVICES DIRECTOR	DRAWN SMS 09-30-2022 CHECKED TW 09-30-2022	RECEIVED # REVISED AS BUILT #			ORDINANCE NO. # PW NO. # # SCALE: 1"=1'-0"

**NOTES:**

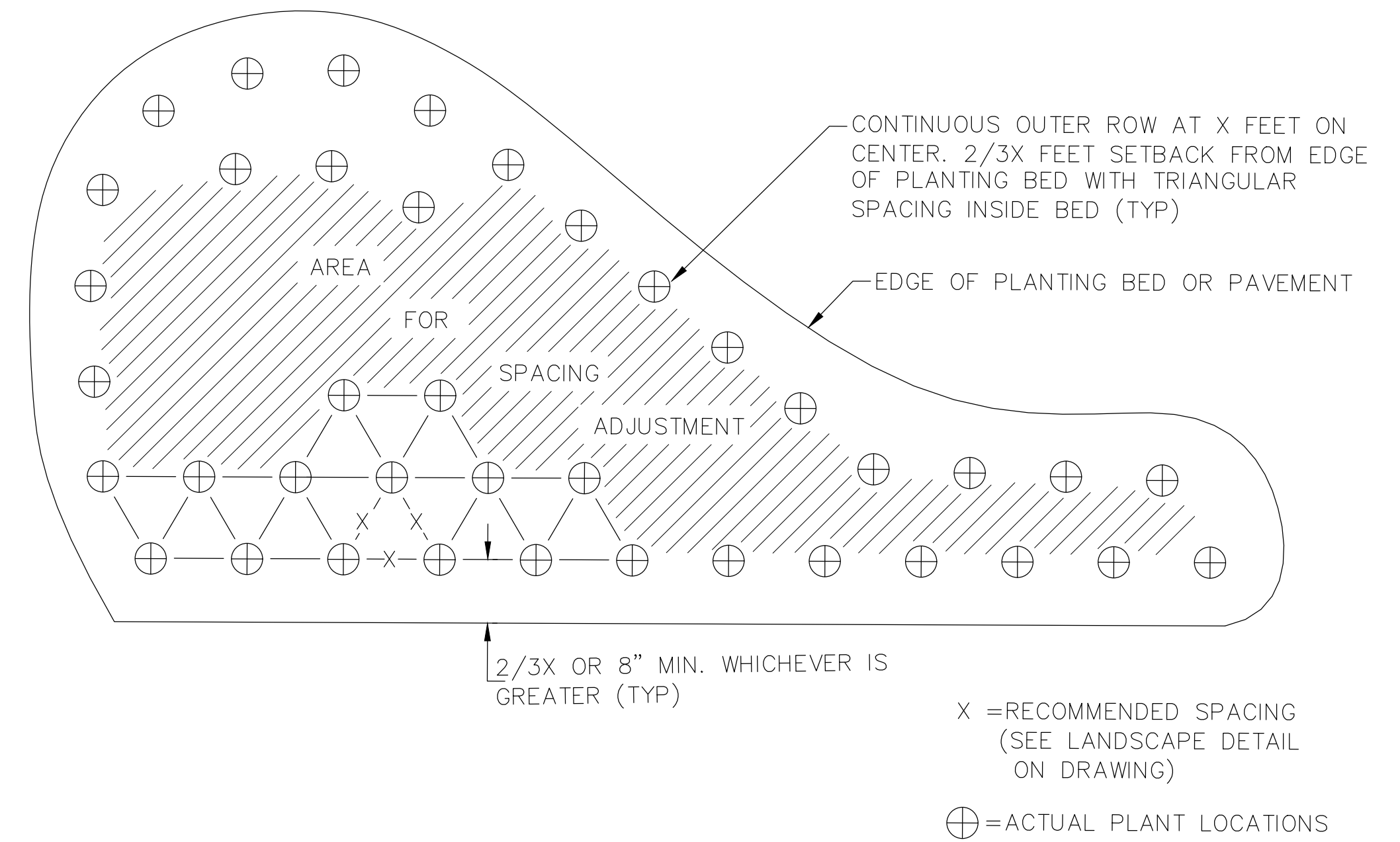
- MULCH COMPLETELY BETWEEN ALL PLANTS EXCEPT IN LAWN
- SCARIFY SIDES OF PLANTING PITS PRIOR TO BACKFILLING.
- TREES 5 FEET AND TALLER TO BE STAKED.



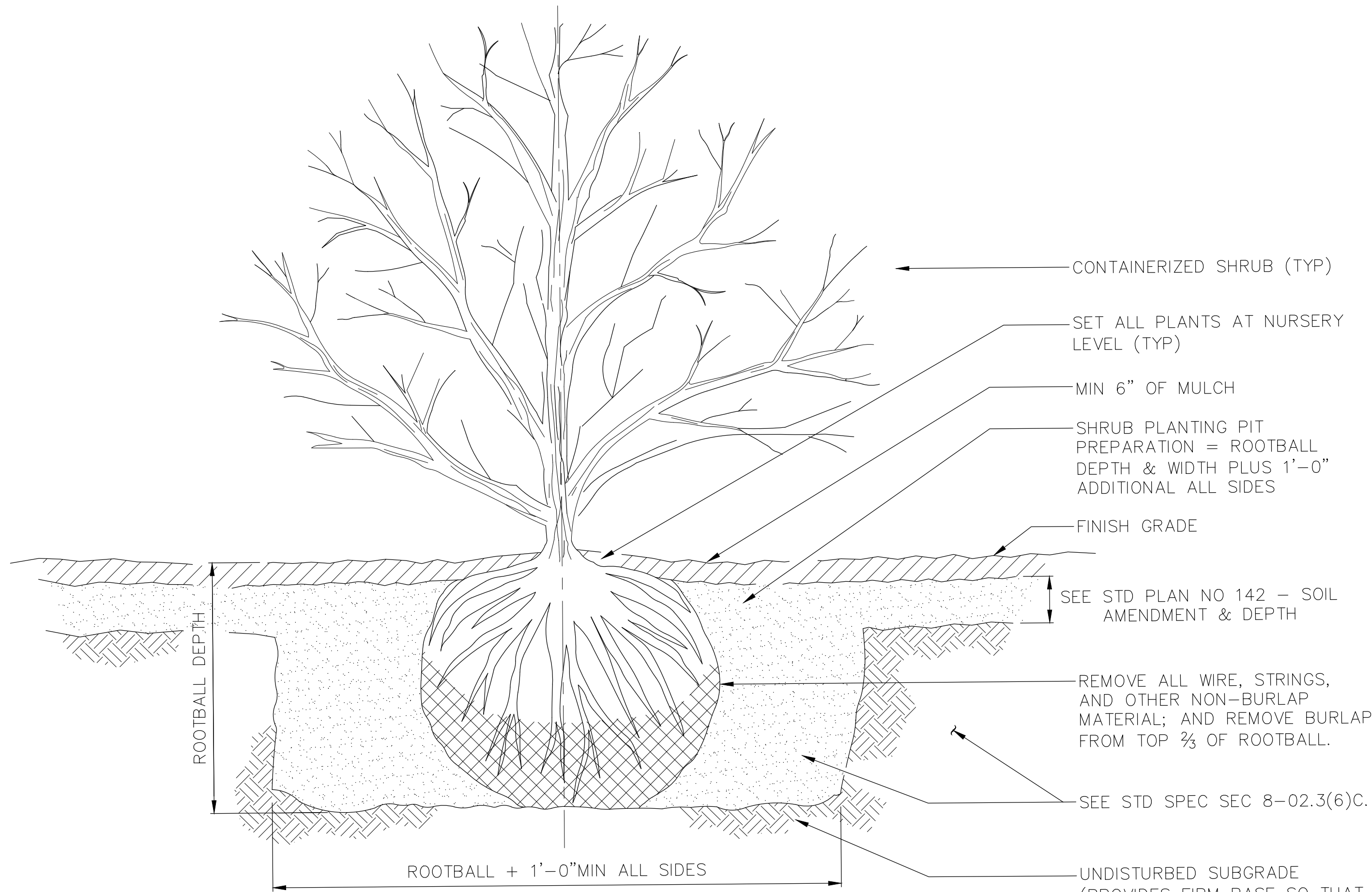
**TREE PLANTING WITHOUT STAKES (A)**  
SCALE: NOT TO SCALE



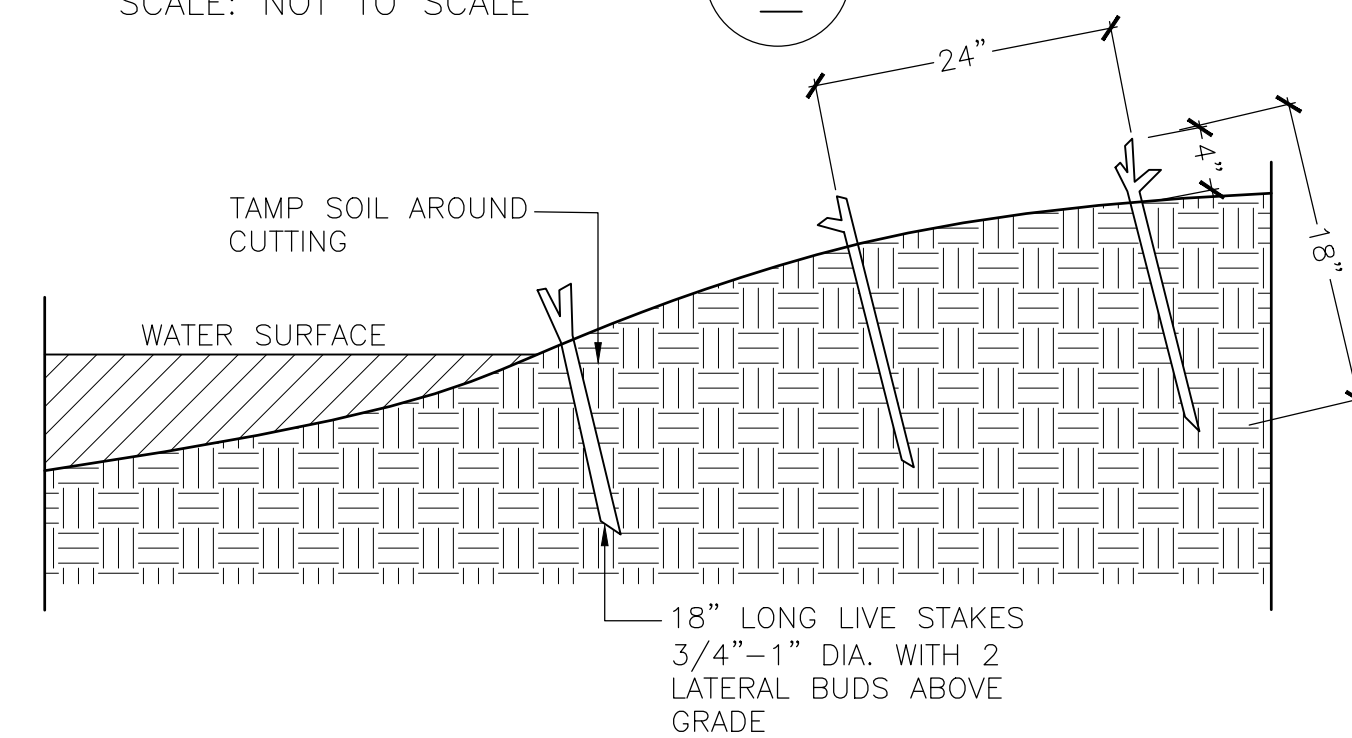
**TREE PROTECTION FENCE (B)**  
SCALE: NOT TO SCALE



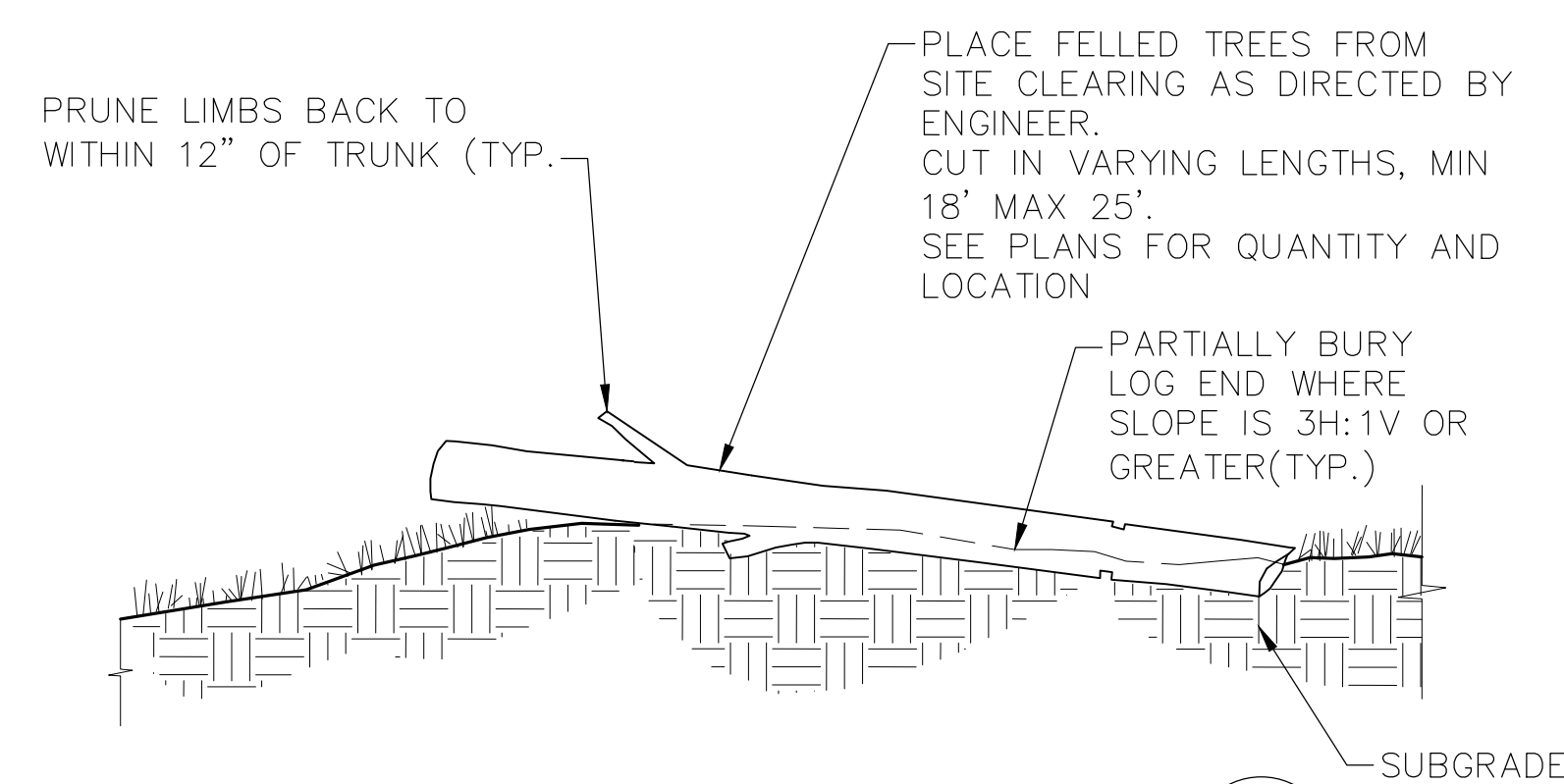
**PLANT SPACING (C)**  
SCALE: NOT TO SCALE



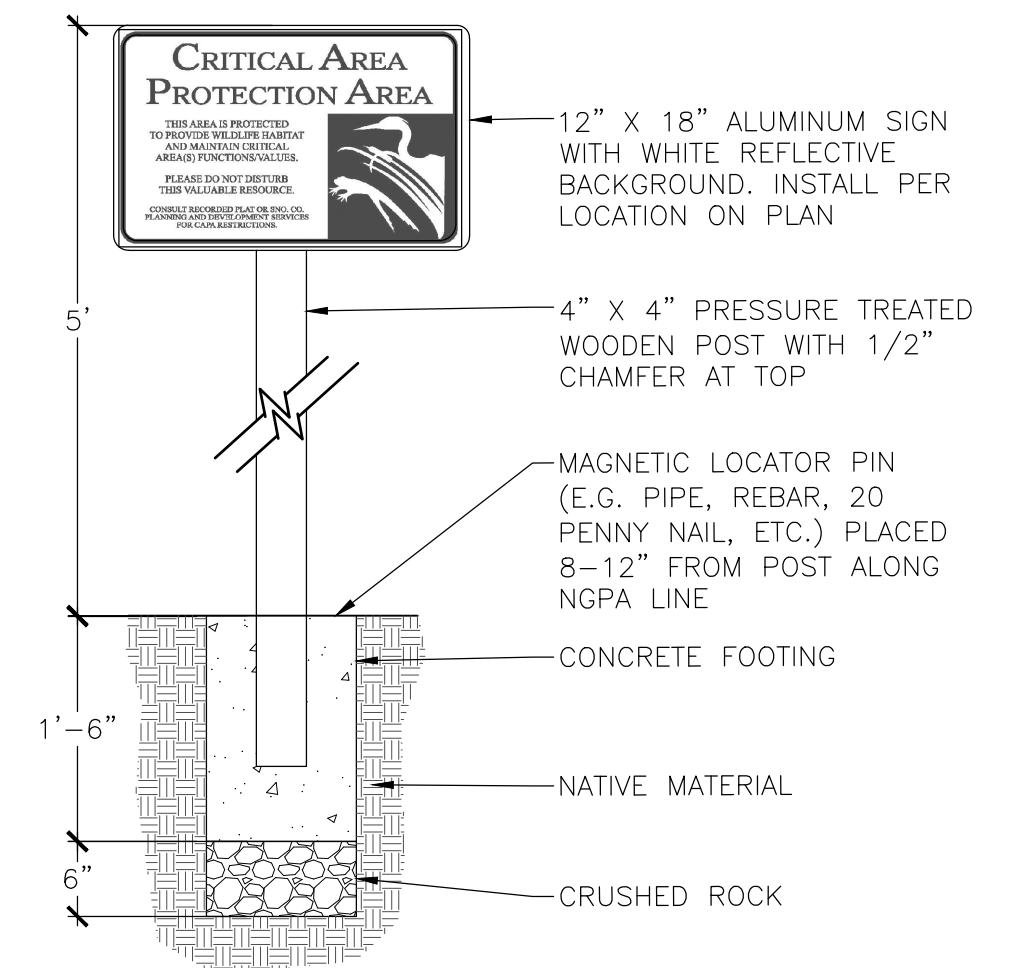
**SHRUB PLANTING (D)**  
SCALE: NOT TO SCALE



**LIVE STAKES (E)**  
SCALE: NOT TO SCALE



**HABITAT LOGS (F)**  
SCALE: NOT TO SCALE



- NOTES:**
- ALL SIGNS MUST BE SECURE AND PERMANENT.
  - ATTACH SIGN TO SPLIT RAIL FENCE WHERE SHOWN ON PLAN.
  - INSTALL SIGN AT 100 FOOT ON CENTER SPACING AROUND EACH NATIVE PLANTING RESTORATION AREA. STAKE OUT FOR ENGINEER APPROVAL PRIOR TO INSTALLATION.

**CRITICAL AREA SIGN (G)**  
SCALE: NOT TO SCALE

REVISED 90% SUBMITTAL (NOT FOR CONSTRUCTION)

LANDSCAPE DETAILS-1



APPROVED FOR ADVERTISING  
LIZ ALZEER  
DEPARTMENT OF FINANCE & ADMINISTRATIVE SERVICES  
SEATTLE, WASHINGTON . . . . . 20 . . . . .

INITIALS AND DATE  
DESIGNED TW 08-01-2022  
CHECKED TW 09-30-2022

INITIALS AND DATE  
REVIEWED: DES. # CONST. #  
SDOT # PROJ. MGR. #  
RECEIVED #  
REVISED AS BUILT #



SOUTH FORK TOLT  
RESERVOIR DEBRIS BOOM  
REPLACEMENT

PC C117069  
CO #  
VPI # 912-32  
L-013  
SHEET 58 OF 59

J:\Share\Projects\Tolt Debris Boom\CAD\Sheets\TDB-PLANTING-DETAILS.dwg 9/30/2022 10:30 AM SahanaMysoreSathiyana

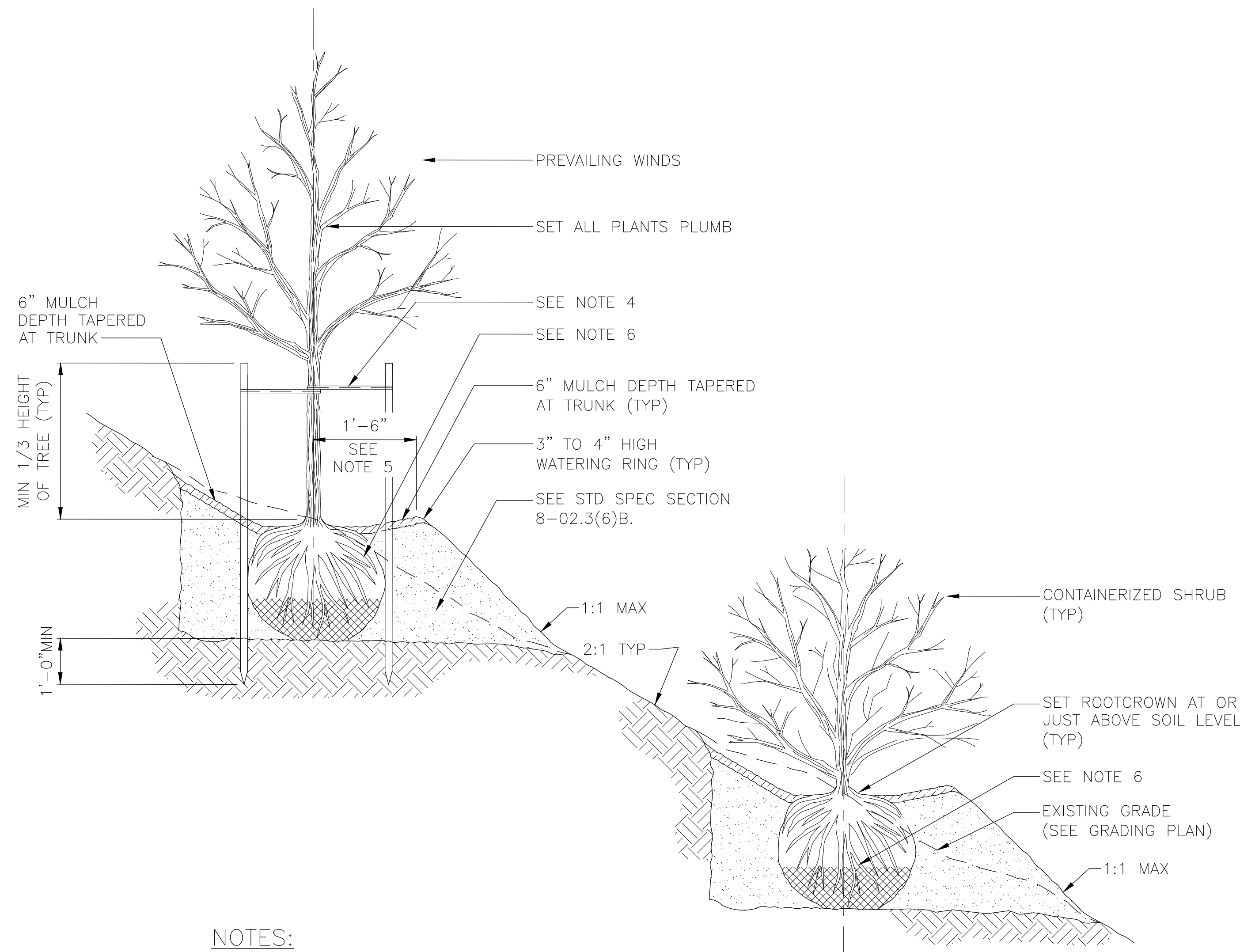
\*912-32##\*

VAULT SERIAL #	DATE	MARK	NATURE	REVISIONS
38810				

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\*912-32##\*

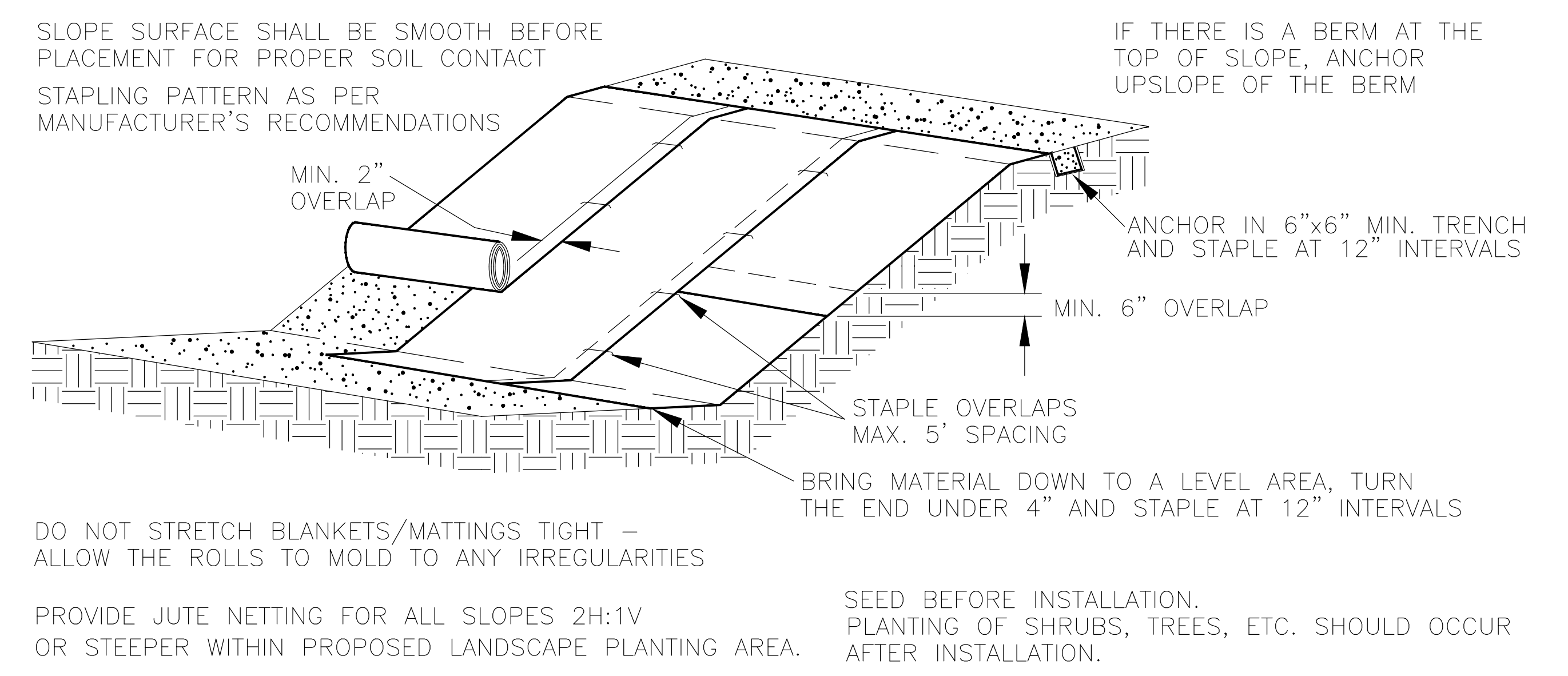
DATE	MARK	NATURE	MADE	CHK'D	REV'D



NOTES:

1. STAKE TREES PER STD PLAN NO 100a.
2. ONE STAKE PER TREE ON WINDWARD SIDE; SECOND STAKE ON LEEWARD SIDE.
3. CHAINLOCK TREE TIE. LOOP EACH TIE AROUND TREE LOOSELY TO PROVIDE 1" SLACK FOR DIAMETER GROWTH.
4. SHAPE SOIL TO PROVIDE 3' DIAMETER OR ROOTBALL DIAMETER, WHICHEVER IS GREATER, WATERING RING.
5. REMOVE ALL WIRE, STRINGS AND OTHER NON-BURLAP MATERIAL; AND REMOVE BURLAP FROM TOP 2/3 OF ROOTBALL.

TREE AND SHRUB PLANTING ON SLOPE (A)  
SCALE: NOT TO SCALE



DO NOT STRETCH BLANKETS/MATTINGS TIGHT - ALLOW THE ROLLS TO MOLD TO ANY IRREGULARITIES

PROVIDE JUTE NETTING FOR ALL SLOPES 2H:1V OR STEEPER WITHIN PROPOSED LANDSCAPE PLANTING AREA.

SEED BEFORE INSTALLATION. PLANTING OF SHRUBS, TREES, ETC. SHOULD OCCUR AFTER INSTALLATION.

JUTE NETTING (B)  
SCALE: NOT TO SCALE

REVISED 90% SUBMITTAL (NOT FOR CONSTRUCTION)

LANDSCAPE DETAILS-2

		APPROVED FOR ADVERTISING LIZ ALZEER DEPARTMENT OF FINANCE & ADMINISTRATIVE SERVICES SEATTLE, WASHINGTON . . . . . 20 . . . . .	INITIALS AND DATE DESIGNED TW 08-01-2022 CHECKED TW 09-30-2022	INITIALS AND DATE REVIEWED: DES. #                      CONST. # SDOT #                     PROJ. MGR. #		SOUTH FORK TOLT RESERVOIR DEBRIS BOOM REPLACEMENT	PC C117069 CO #
			DRAWN SMS 09-30-2022 CHECKED TW 09-30-2022	RECEIVED # REVISED AS BUILT #			ORDINANCE NO. #                      PW NO. # #
BY: CITY PURCHASING & CONTRACTING SERVICES DIRECTOR			ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE CITY OF SEATTLE STANDARD PLANS AND SPECIFICATIONS AND OTHER DOCUMENTS CALLED FOR IN SECTION 0-02.3 OF THE PROJECT MANUAL.		STATE OF WASHINGTON LICENSED LANDSCAPE ARCHITECT JAMES A. BRENNAN CERTIFICATE NO. 450 EXPIRES 09/30/2027	SCALE: NOT TO SCALE	SHEET 59 OF 59