



P&R COMMISSION – SUBCOMMITTEE SPECIAL VIDEO MEETING

Thursday, October 28, 2021 at 10:00 AM

COMMISSIONERS:

Chair Peter Struck

Commissioners: Lyn Gualtieri & Rory Westberg

LOCATION & CONTACT

Zoom Meeting

Phone: 206.275.7626 | www.mercerisland.gov

Virtual Meeting Notice

The virtual meeting will be broadcast live on Zoom and recorded and saved on the City Council's [YouTube Channel](#)

Join by Telephone at 10:00 AM: To listen to the meeting via telephone, please call **253.215.8782** and enter Webinar ID **822 0801 2927** and Password **043130** when prompted.

Join by Internet at 10:00 AM: To watch the meeting over the internet via your computer, follow these steps:

- 1) Click this [link](#)
- 2) If the Zoom app is not installed on your computer, you will be prompted to download it.
- 3) If prompted for Webinar ID, enter **822 0801 2927** Enter Password **043130**

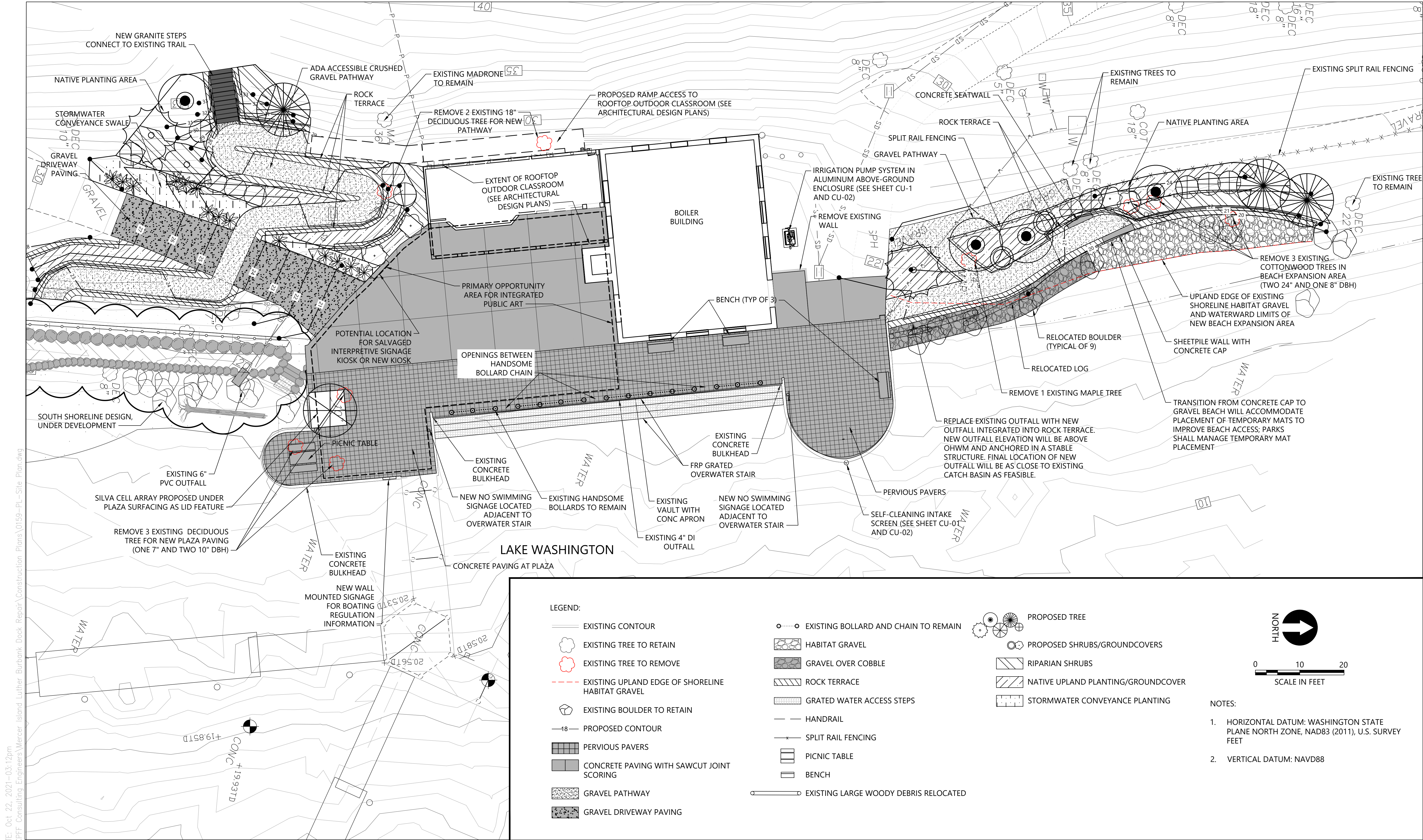
For the safety and wellbeing of the public and staff, the City strongly recommends that community members attend the meeting by viewing the live feed on Zoom or watching the recording of the video conference on the City Council's [YouTube Channel](#), which will be available approximately 24-48 hours after the meeting.

CALL TO ORDER & ROLL CALL – 10:00 AM

SPECIAL BUSINESS

1. Presentation of Revised Landscape Plan (20 min)
2. Presentation of Cost Estimate and discussion (45 min)
3. Permitting Issues update (15 min)
4. Next Steps and Meeting Discussion (10 min)

ADJOURNMENT



CAD USER: cwee PLOT DATE: Oct 22, 2021-03:12pm
PATH: K:\Projects\0159-KPFF Consulting Engineers\Mercer Island Luther Burbank Pier Repair\Construction Plans\0159-PL-Site Plan.dwg

kppf
1601 5th Avenue, Suite 1600
Seattle, WA 98101
206.622.5822
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NO.	DATE	BY	REVISION

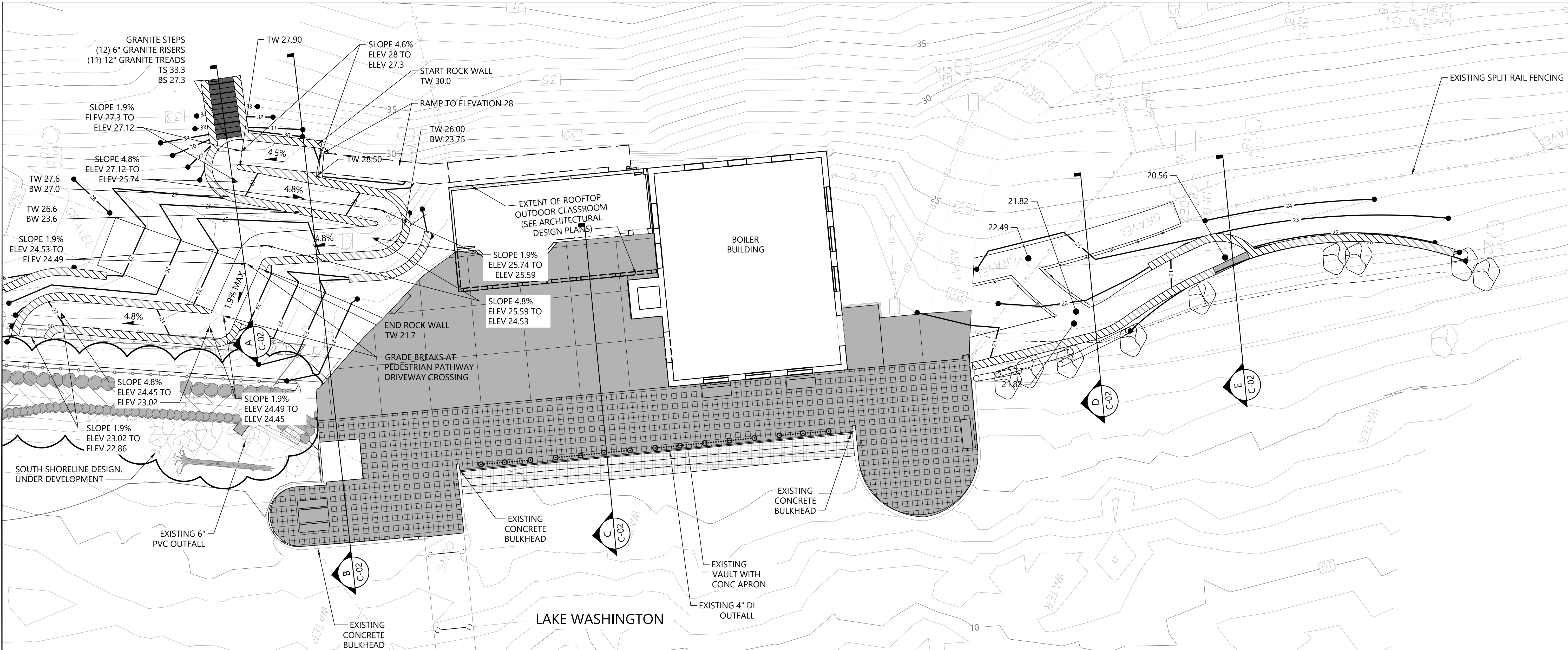


LUTHER BURBANK PARK PIER REPAIR
CITY OF MERCER ISLAND

COMPOSITE SITE PLAN

DRAWN: TG/CW	PROJECT NO.: 2000291
DESIGN: AS	SCALE: AS NOTED
CHECKED: PH	DATE: 09/08/2021
DRAWING NO.	G-021
SHEET NO. 5	OF 52

30% SUBMITTAL



LEGEND:

- EXISTING CONTOUR
- EXISTING TREE
- PROPOSED CONTOUR
- PERVIOUS PAVERS
- CONCRETE PAVING WITH SCORING
- EXISTING BOLLARD AND CHAIN TO REMAIN
- ROCK TERRACE
- GRATED WATER ACCESS STEPS
- SECTION LOCATION
- TW TOP OF WALL
- BW BOTTOM OF WALL

TS TOP OF STAIRS

BS BOTTOM OF STAIRS

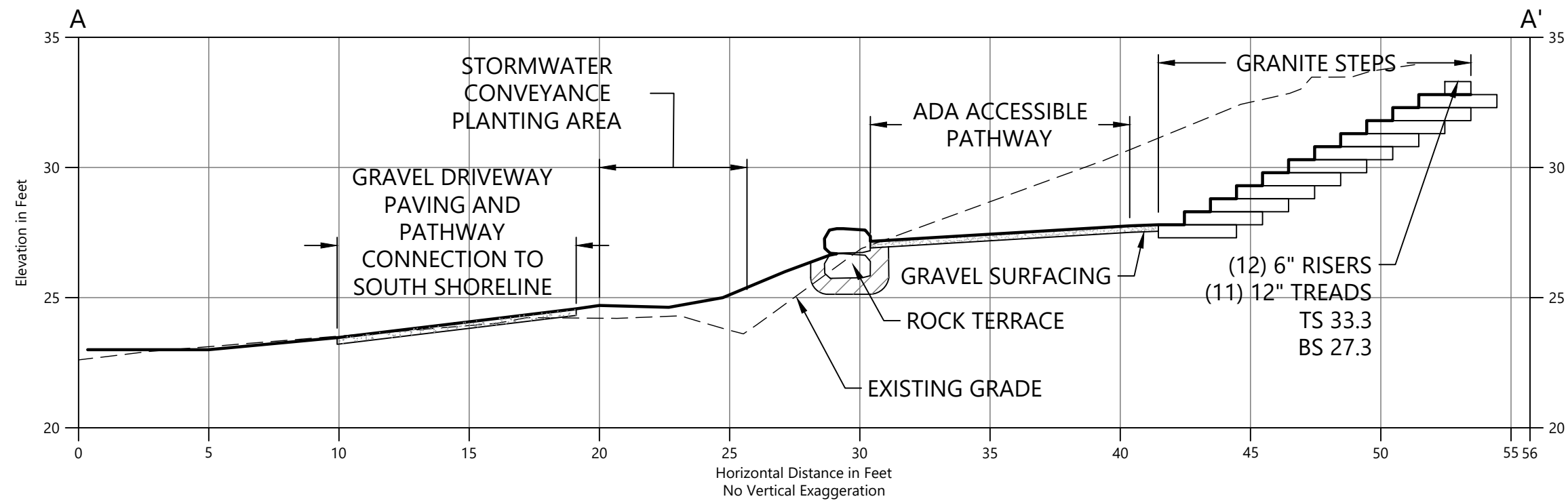
NORTH

0 10 20

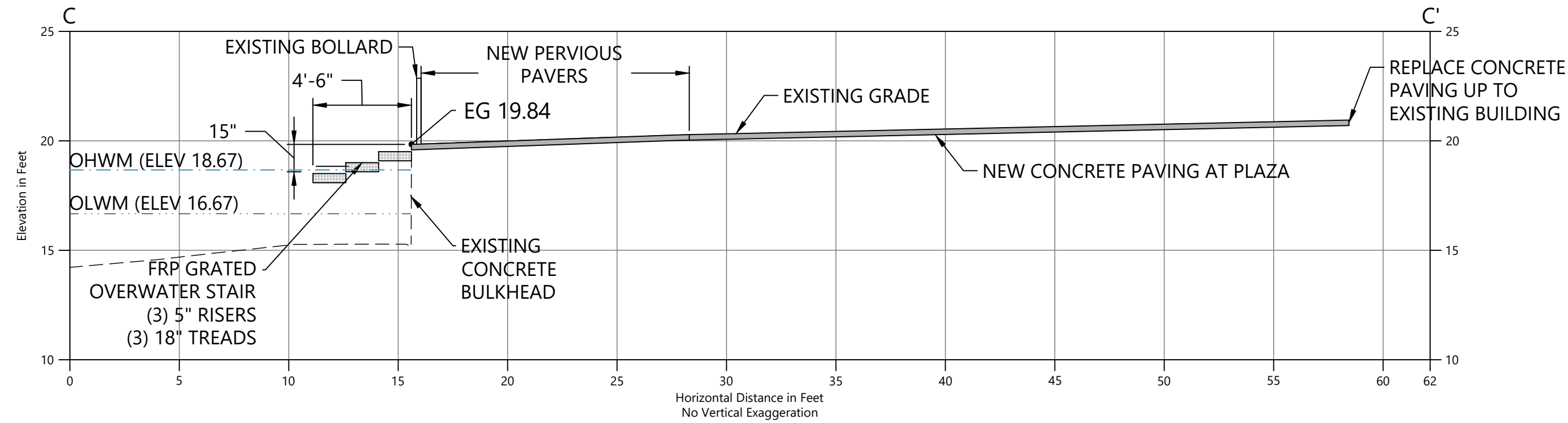
SCALE IN FEET

NOTES:

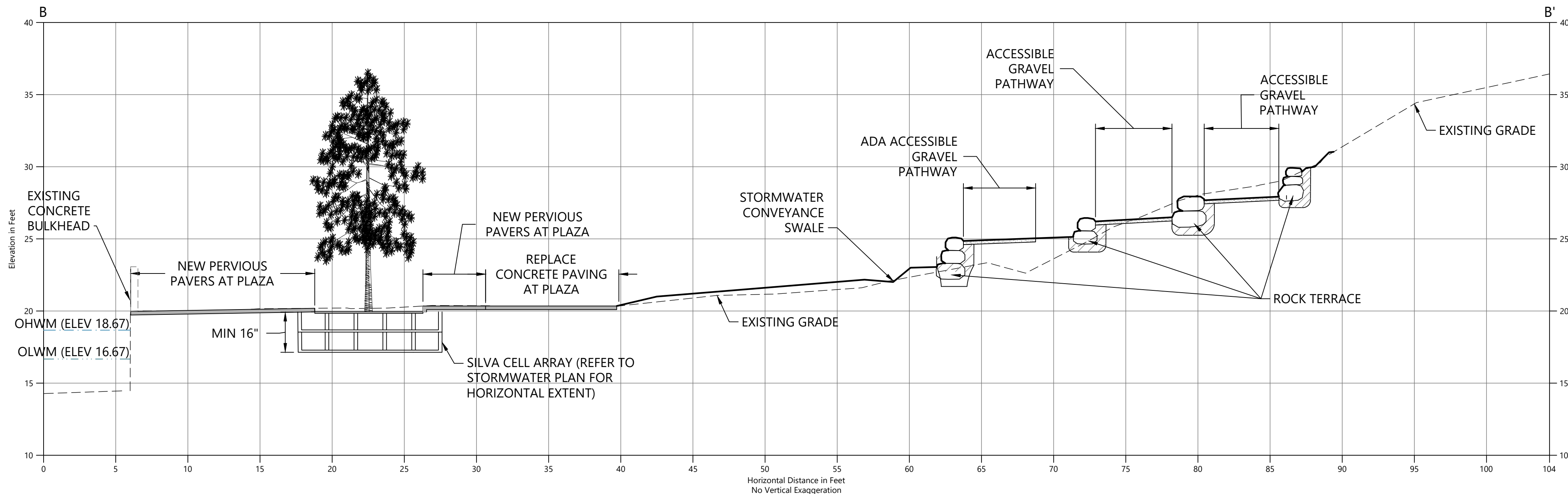
- HORIZONTAL DATUM: WASHINGTON STATE PLANE NORTH ZONE, NAD83 (2011), U.S. SURVEY FEET
- VERTICAL DATUM: NAVD88



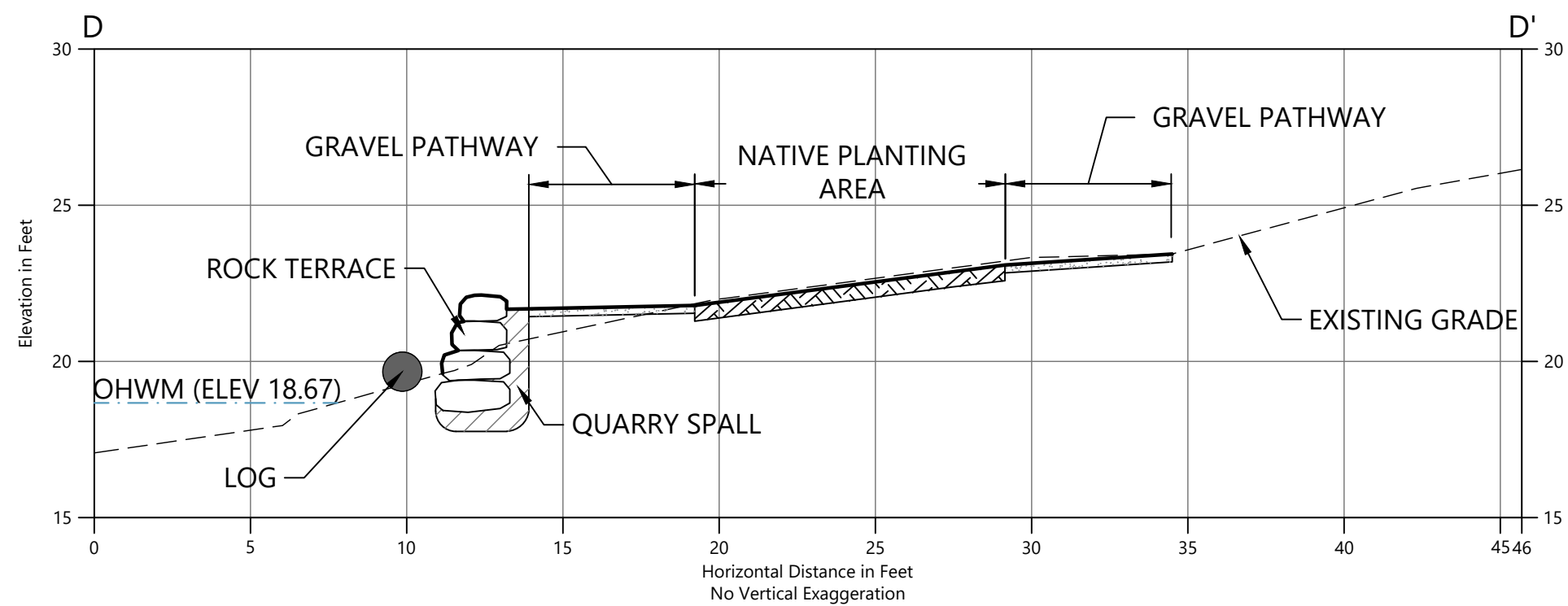
A
SECTION A
SCALE: 1" = 5'



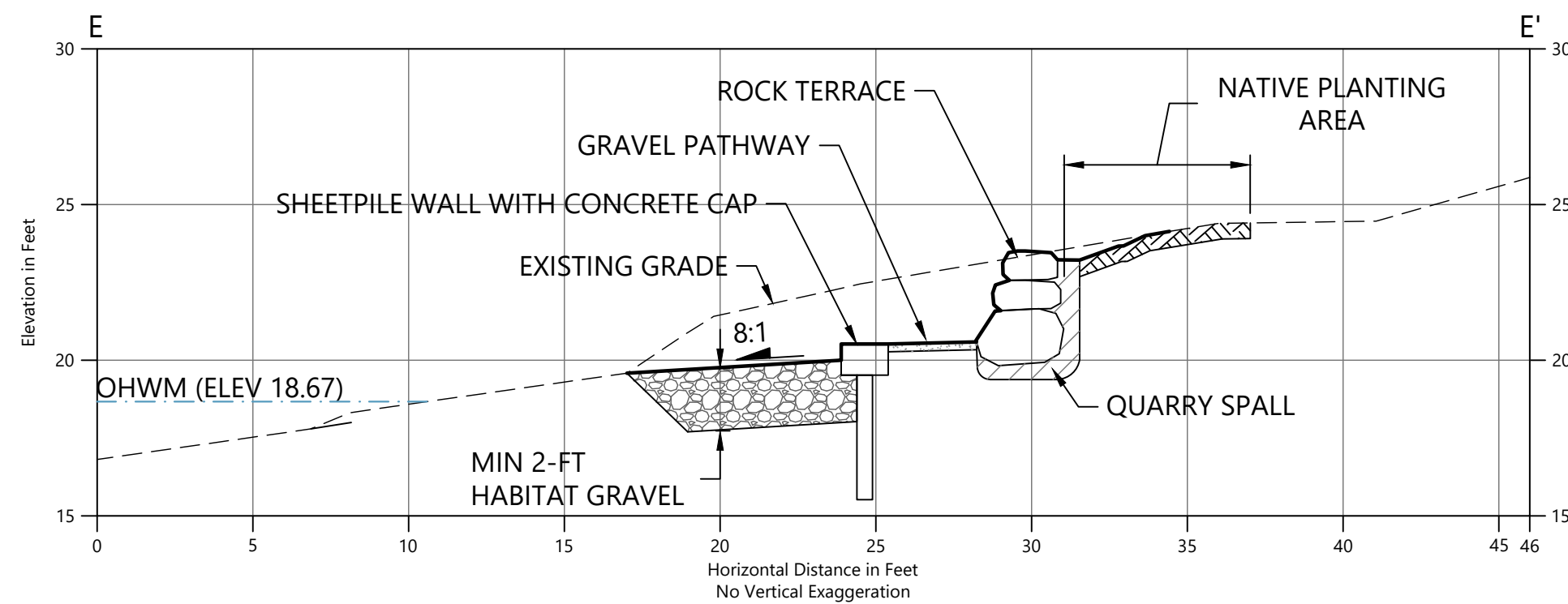
C
SECTION C
SCALE: 1" = 5'



B
SECTION B
SCALE: 1" = 5'



D
SECTION D
SCALE: 1" = 5'



E
SECTION E
SCALE: 1" = 5'

- LEGEND:
- EXISTING GRADE
 - PROPOSED GRADE
 - [Pattern] HABITAT GRAVEL
 - [Pattern] QUARRY SPALL
 - [Symbol] ROCK TERRACE
 - [Pattern] TOPSOIL
 - [Pattern] GRAVEL PATHWAY
 - [Pattern] CONCRETE PAVING
 - [Pattern] GRATED STAIRS
 - TS TOP OF STAIRS
 - BS BOTTOM OF STAIRS



- NOTES:
- HORIZONTAL DATUM: WASHINGTON STATE PLANE NORTH ZONE, NAD83 (2011), U.S. SURVEY FEET
 - VERTICAL DATUM: NAVD88

CAD USER: cwee PLOT DATE: Oct 22, 2021-03:12pm
PATH: K:\Projects\0159-KPFF Consulting Engineers\Mercer Island Luther Burbank Dock Repair\Construction Plans\0159-PL-Grading Plan.dwg

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NO.	DATE	BY	REVISION



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CITY OF MERCER ISLAND

GRADING CROSS-SECTIONS

DRAWN: TG/CW	PROJECT NO.: 2000291
DESIGN: AS	SCALE: AS NOTED
CHECKED: PH	DATE: 09/08/2021
DRAWING NO.	C-021
SHEET NO. 12	OF 52

30% SUBMITTAL

LEGEND

- FOUND MONUMENT (AS NOTED)
- FOUND REBAR (AS NOTED)
- BOLLARD
- SIGN - WOODEN POST
- DECIDUOUS TREE
- CONC

CONCRETE
- IRRIGATION VALVE
- WATER VALVE
- WATER METER
- INVERT ELEVATION
- CONCRETE PIPE
- ELECTRIC METER
- LIGHT POLE
- CLEANOUT
- CATCH BASIN
- SUBSURFACE DRAIN
- FENCE LINE
- W

WATER LINE
- P

UNDERGROUND POWER
- T

UNDERGROUND COMMUNICATIONS LINE
- SD

STORM DRAIN LINE
- SS

SEWER LINE
- EXISTING CONTOUR, MAJOR
- EXISTING CONTOUR, MINOR
- PROPOSED PIPE (BURIED)
- PROPOSED PIPE (ABOVE GROUND)
- PROPOSED INTAKE SCREEN
- PROPOSED PUMP SYSTEM

NOTES:

1. HORIZONTAL DATUM: WASHINGTON STATE PLANE NORTH ZONE, NORTH AMERICAN DATUM OF 1983 (NAD83), U.S. SURVEY FEET
2. VERTICAL DATUM: NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88).
3. SURVEY BASE MAP FROM PACIFIC GEOMATIC SERVICES, DATED OCTOBER 28, 2019.

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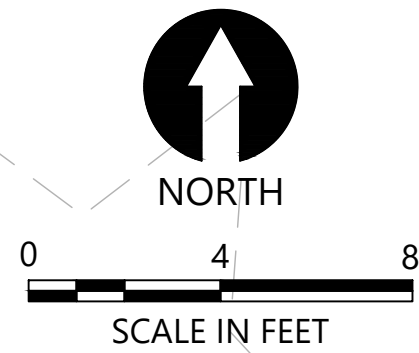
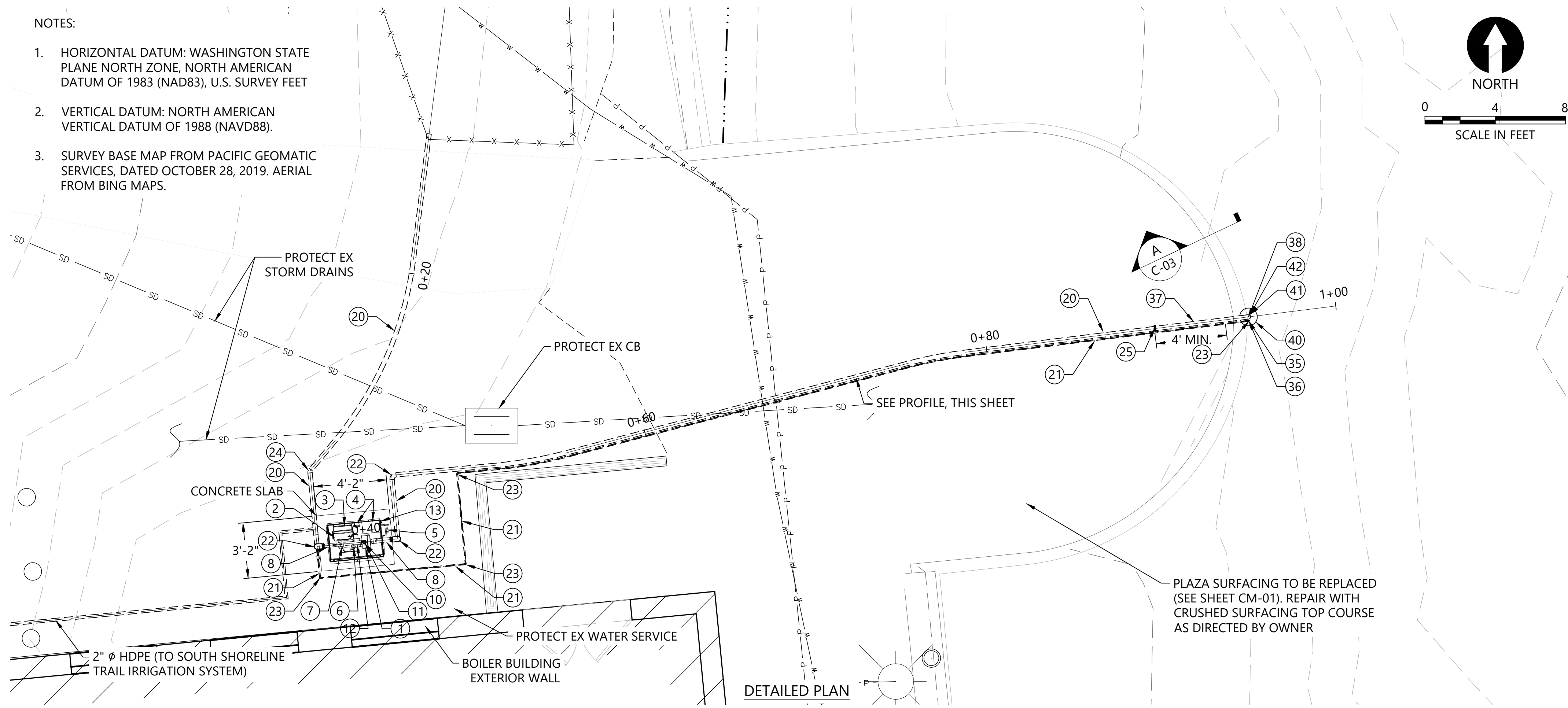
INTAKE AND PUMPING FACILITIES -
OVERALL SITE PLAN

DRAWN: TG/CW	PROJECT NO.: 2000291
DESIGN: AS	SCALE: AS NOTED
CHECKED: PH	DATE: 09/08/2021
DRAWING NO.	CU-010
SHEET NO. 13	OF 52

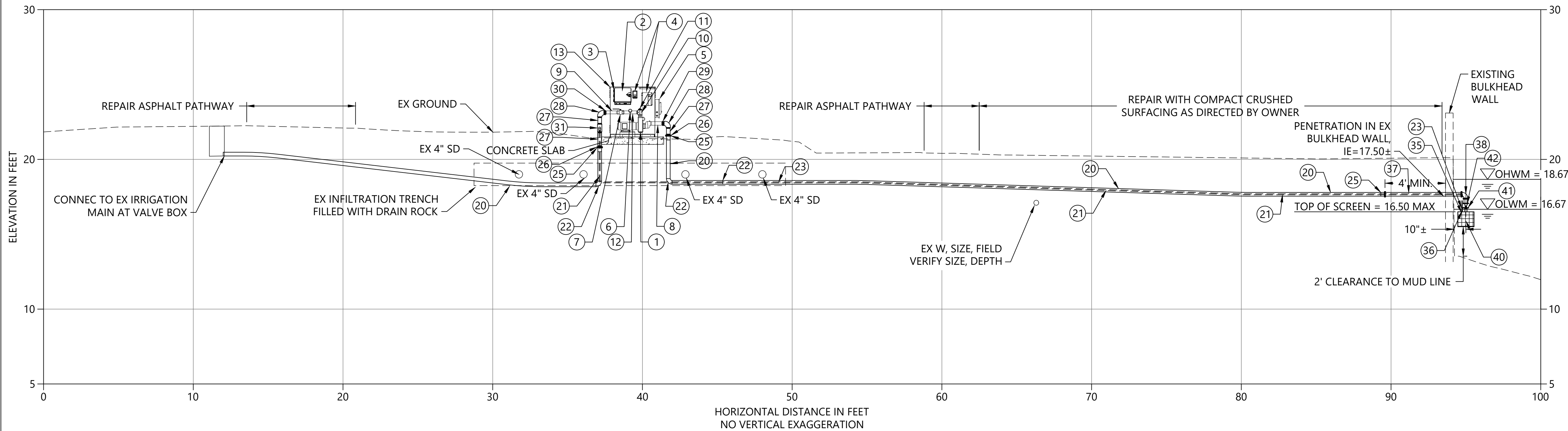
30% SUBMITTAL

NOTES:

1. HORIZONTAL DATUM: WASHINGTON STATE PLANE NORTH ZONE, NORTH AMERICAN DATUM OF 1983 (NAD83), U.S. SURVEY FEET
2. VERTICAL DATUM: NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88).
3. SURVEY BASE MAP FROM PACIFIC GEOMATIC SERVICES, DATED OCTOBER 28, 2019. AERIAL FROM BING MAPS.



DETAILED PLAN



PIPE PROFILE
SCALE: 1" = 4'

EQUIPMENT LEGEND	
PACKAGED PUMP SYSTEM (RAINBIRD CLP5VAAS OR APPROVED EQUAL):	
NUMBER	DESCRIPTION
1	"SELF-PRIMING, END-SUCTION, CENTRIFUGAL PUMP W/ VFD, 50 GPM @ 150 FEET TDH, ~ 5 HP"
2	IRRIGATION SYSTEM CONTROLLER
3	MOUNTING BRACKET FOR IRRIGATION SYSTEM CONTROLLER
4	208V 1-PHASE POWER DISCONNECT, PUMP START RELAY
5	MANUAL SWITCH (PROGRAMMBLE CONTROLLER OVERRIDE)
6	LIQUID-FILLED PRESSURE GAUGE, SST, DISCHARGE
7	2" ISOLATION VALVE
8	2-1/2" THREADED PIPE NIPPLE, SST, MNPT
9	2" THREADED NIPPLE, SST, MNPT
10	2" THREADED TEE, SST, FNPT
11	2" THREADED PLUG, SST, MNPT
12	2" THREADED NIPPLE, SST, MNPT, WITH WELDED OUTLET FOR PRESSURE GAGE AND AIR RELEASE VALVE
13	MARINE GRADE ALUMINUM DECK AND ENCLOSURE
SUCTION AND DISCHARGE PIPE AND FITTINGS:	
NUMBER	DESCRIPTION
20	3" HDPE PIPE, DR 17, BUTT-FUSED
21	3/4" HDPE PIPE, DR 11, BUTT-FUSED (BACKWASH LINE)
22	3" HDPE 90° BEND, DR 17, BUTT-FUSED
23	3/4" HDPE 90° BEND, DR11, BUTT-FUSED
24	3" HDPE 45° BEND, DR 17, BUTT-FUSED
25	3" HDPE FLANGE ADAPTER W/ DI BACKING RING
26	3" COMPANION FLANGE, SST, FNPT X FL
27	3" THREADED NIPPLE, SST, MNPT
28	3" 90° BEND, SST, FNPT
29	3" X 2-1/2" HEX BUSHING, SST, MNPT X FNPT
30	3" X 2" HEX BUSHING, SST, MNPT X FNPT
31	3" X 1" TEE, SST, FNPT
32	1" THREADED NIPPLE, SST, MNPT
33	1" 90° BEND, SST, FNPT
34	1" X 3/4" COUPLING, SST, MNPT X PACK JOINT
35	3/4" COUPLING, SST, MNPT X PACK JOINT
36	3/4" UNION, FNPT X FNPT
37	3" PIPE SPOOL, SST, FL X FL
38	3" 90° BEND, SST, FL X FL
FISH SCREEN AND ASSOCIATED FITTINGS:	
NUMBER	DESCRIPTION
40	CTC WATERWORKS SCS2, 100 GPM MAX., SELF-CLEANING INTAKE SCREEN, OR APPROVED EQUAL
41	3" COMPANION FL, SST
42	3" DOUBLE DOOR CHECK VALVE, WAFER STYLE

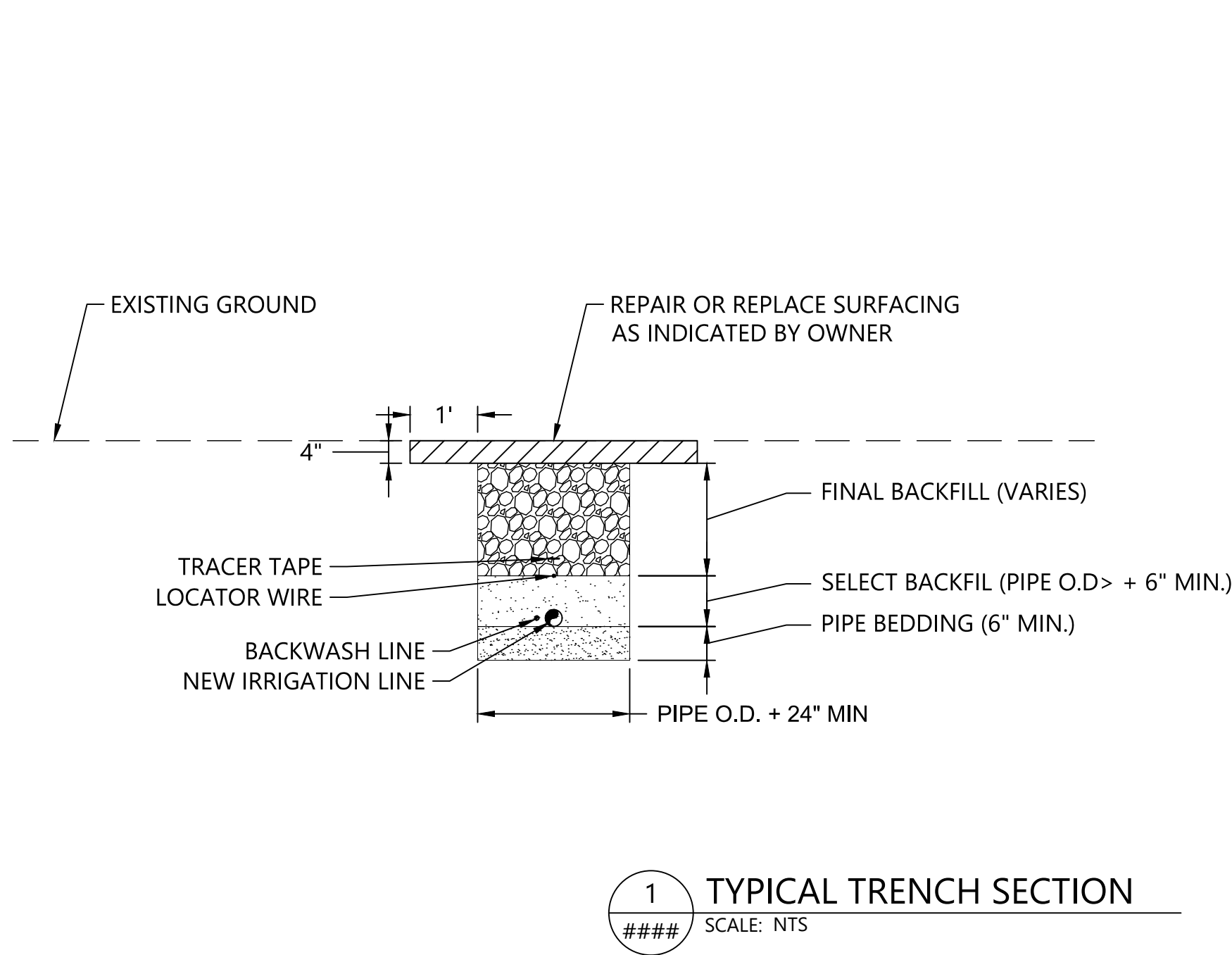
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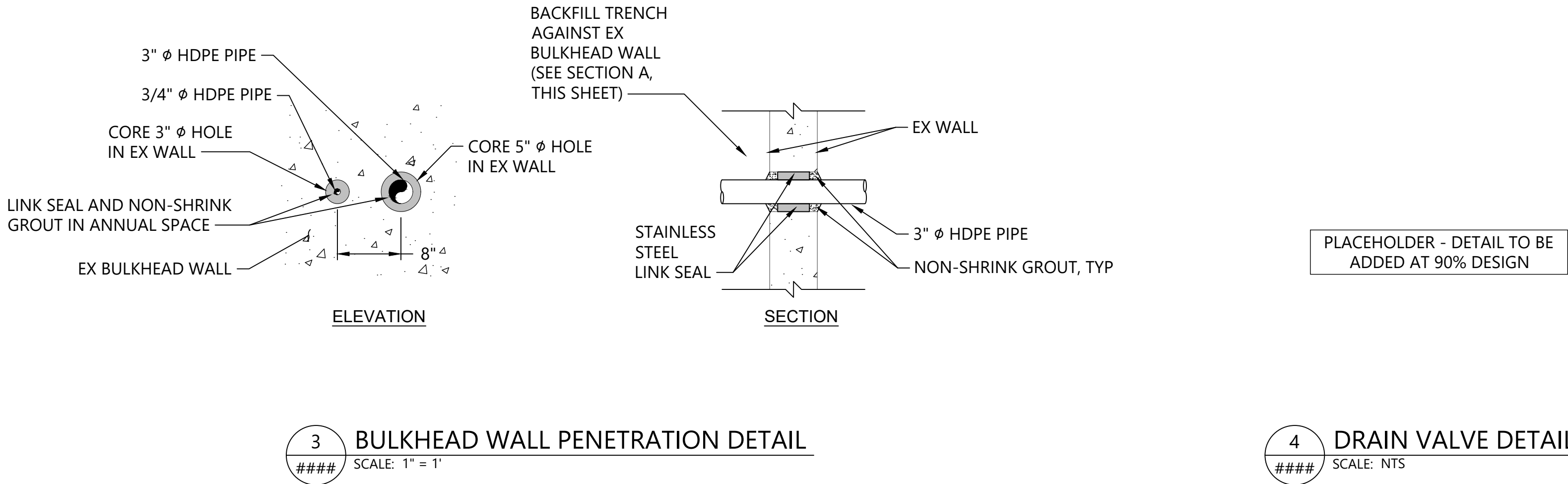
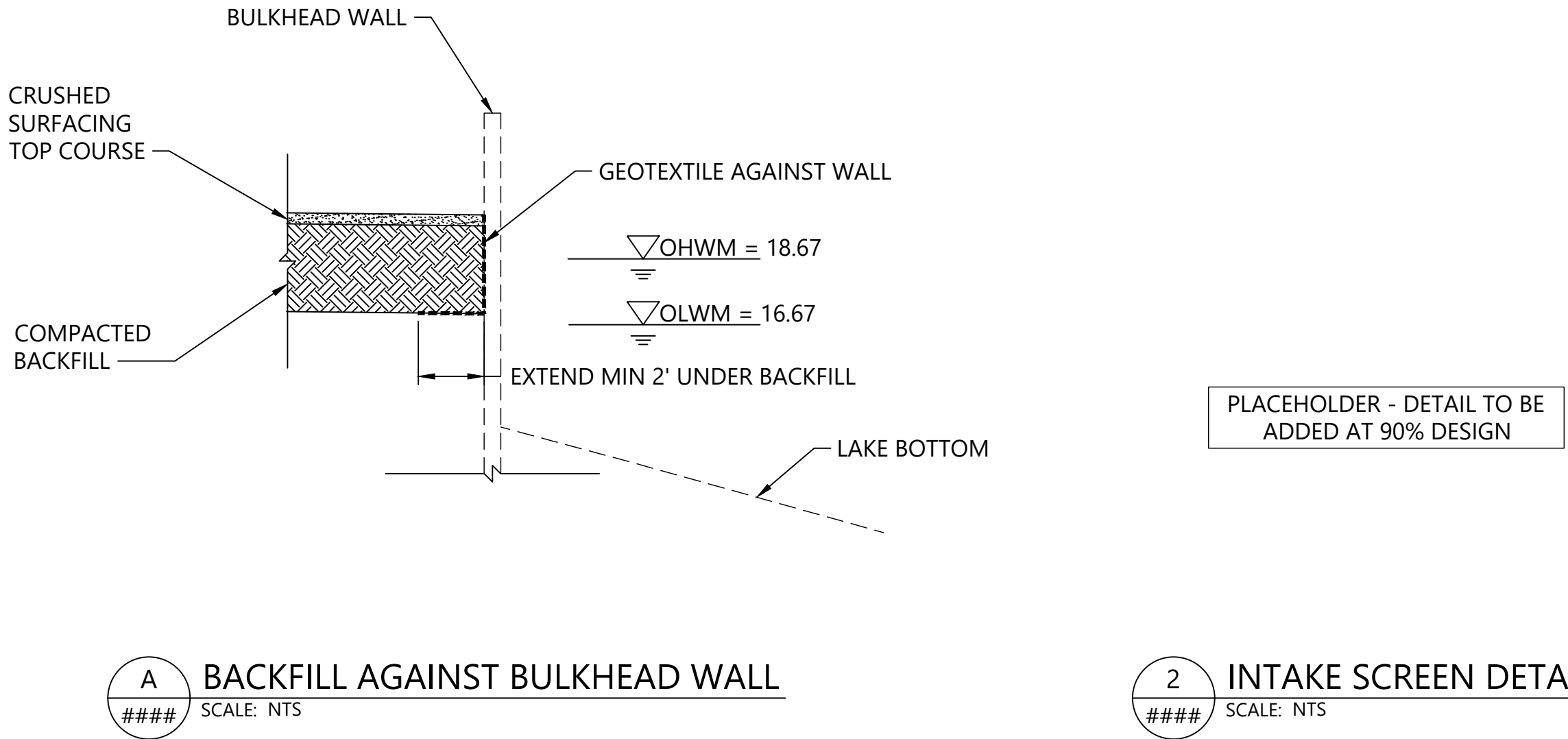
LUTHER BURBANK PARK PIER REPAIR
CITY OF MERCER ISLAND

INTAKE AND PUMPING FACILITIES -
EQUIPMENT PLAN AND SECTIONS

DRAWN: TG/CW	PROJECT NO.: 2000291
DESIGN: AS	SCALE: AS NOTED
CHECKED: PH	DATE: 09/08/2021
DRAWING NO.	CU-011
SHEET NO. 14	OF 52



- TYPICAL TRENCH SECTION NOTES:
1. PIPE BEDDING - PIPE BEDDING SHALL BE AT LEAST 6 INCHES DEEP AND SHALL MEET THE REQUIREMENTS OF SECTION 9-03.12(3) OF THE STANDARD SPECIFICATIONS. IF EXCAVATED TRENCH BOTTOM IS UNSTABLE OR NOT SUITABLE, THE CONTRACTOR SHALL EXCAVATE TO A DEPTH REQUIRED BY THE ENGINEER AND BACKFILL WITH PIPE BEDDING. PLACE PIPE BEDDING IN MAXIMUM 6-INCH LIFTS AND COMPACT TO 90% OF MAXIMUM DRY DENSITY.
 2. SELECT BACKFILL - SELECT FILL SHALL ALSO MEET THE REQUIREMENTS OF SECTION 9-03.12(3) OF THE STANDARD SPECIFICATIONS. PLACE SELECT BACKFILL IN 6-INCH LIFTS TO A MINIMUM DEPTH OF 6 INCHES ABOVE THE CROWN OF THE PIPE AND COMPACT TO 90% OF MAXIMUM DRY DENSITY.
 3. FINAL BACKFILL - UNDER PATHWAYS AND OTHER HARD SURFACES, THE CONTRACTOR SHALL BACKFILL THE REMAINING PORTION OF THE TRENCH TO THE LINES AND GRADES SHOW WITH 5/8-INCH MINUS CRUSHED ROCK SURFACING COMPACTED TO 95% OF MAXIMUM DRY DENSITY.
 4. TRACER TAPE AND LOCATOR WIRE - TRACER TAPE SHALL MEET THE REQUIREMENTS OF SECTION 9-15.18 OF THE STANDARD SPECIFICATIONS. LOCATOR WIRE SHALL BE 12 GA. COPPER MULTI-STRAND RHW, CERTIFIED FOR DIRECT BURIAL. THE TRACER TAPE AND LOCATOR WIRE SHALL BE INSTALLED ALONG THE ENTIRE PROFILE OF THE PIPE.
 5. DRAIN ROCK - WHERE THE PIPE IS INSTALLED ACROSS OR UNDER DRAIN ROCK PLACED AS PART OF AN INFILTRATION TRENCH ADJACENT TO THE BOILER BUILDING, THE CONTRACTOR SHALL BACKFILL THE TRENCH WITH DRAIN ROCK AND OTHER MATERIALS TO MATCH THE MATERIALS EXCAVATED TO PLACE THE IRRIGATION PIPE.



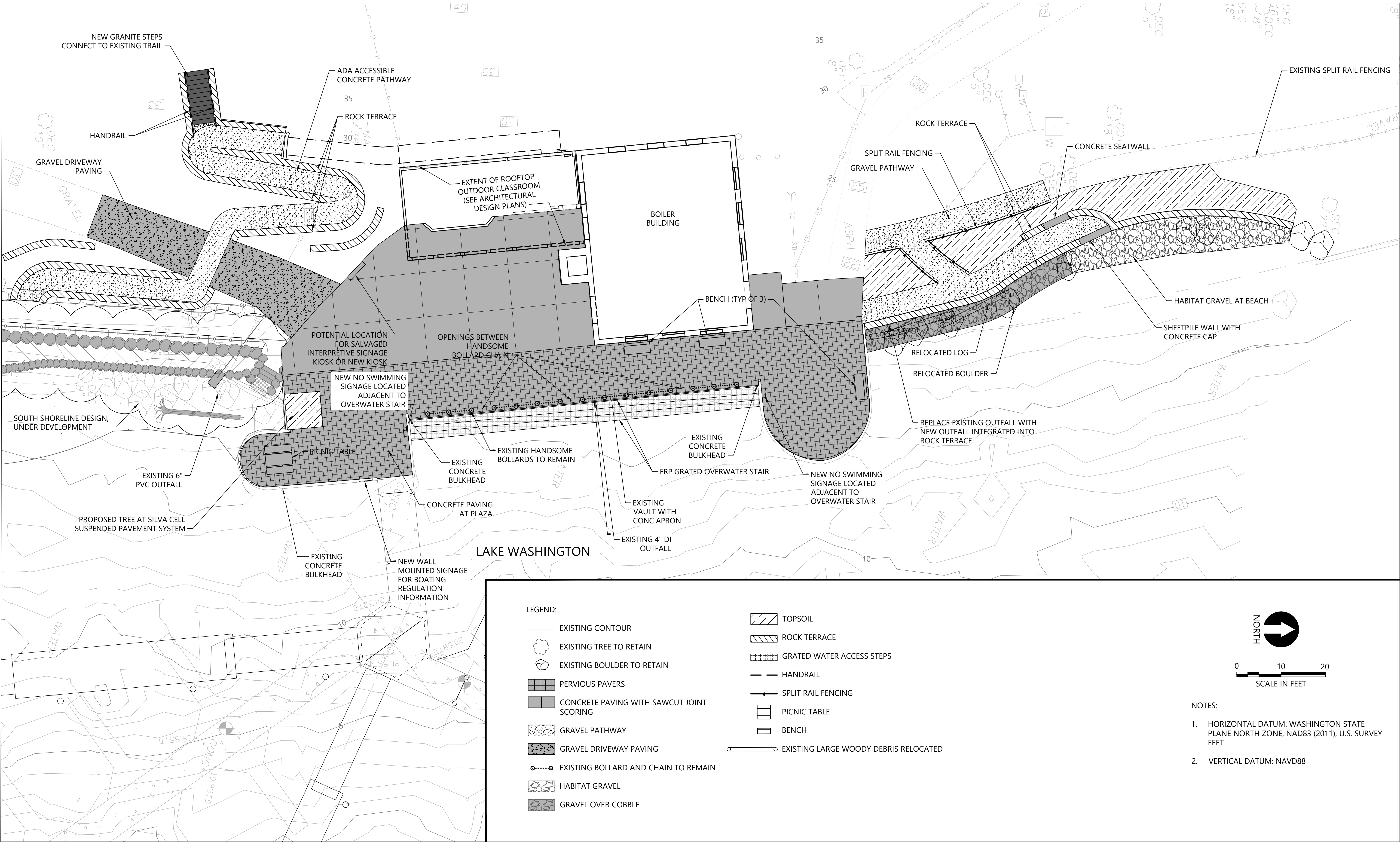
NO.	DATE	BY	REVISION



LUTHER BURBANK PARK PIER REPAIR
CITY OF MERCER ISLAND

**INTAKE AND PUMPING FACILITIES -
DETAILS**

DRAWN: TG/CW	PROJECT NO.: 2000291
DESIGN: AS	SCALE: AS NOTED
CHECKED: PH	DATE: 09/08/2021
DRAWING NO.	CU-012
SHEET NO. 15	OF 52



LEGEND:

- EXISTING CONTOUR
- EXISTING TREE TO RETAIN
- EXISTING BOULDER TO RETAIN
- PERVIOUS PAVERS
- CONCRETE PAVING WITH SAWCUT JOINT SCORING
- GRAVEL PATHWAY
- GRAVEL DRIVEWAY PAVING
- EXISTING BOLLARD AND CHAIN TO REMAIN
- HABITAT GRAVEL
- GRAVEL OVER COBBLE

TOPSOILROCK TERRACEGRATED WATER ACCESS STEPSHANDRAILSPLIT RAIL FENCINGPICNIC TABLEBENCHEXISTING LARGE WOODY DEBRIS RELOCATED

NOTES:

- HORIZONTAL DATUM: WASHINGTON STATE PLANE NORTH ZONE, NAD83 (2011), U.S. SURVEY FEET
- VERTICAL DATUM: NAVD88

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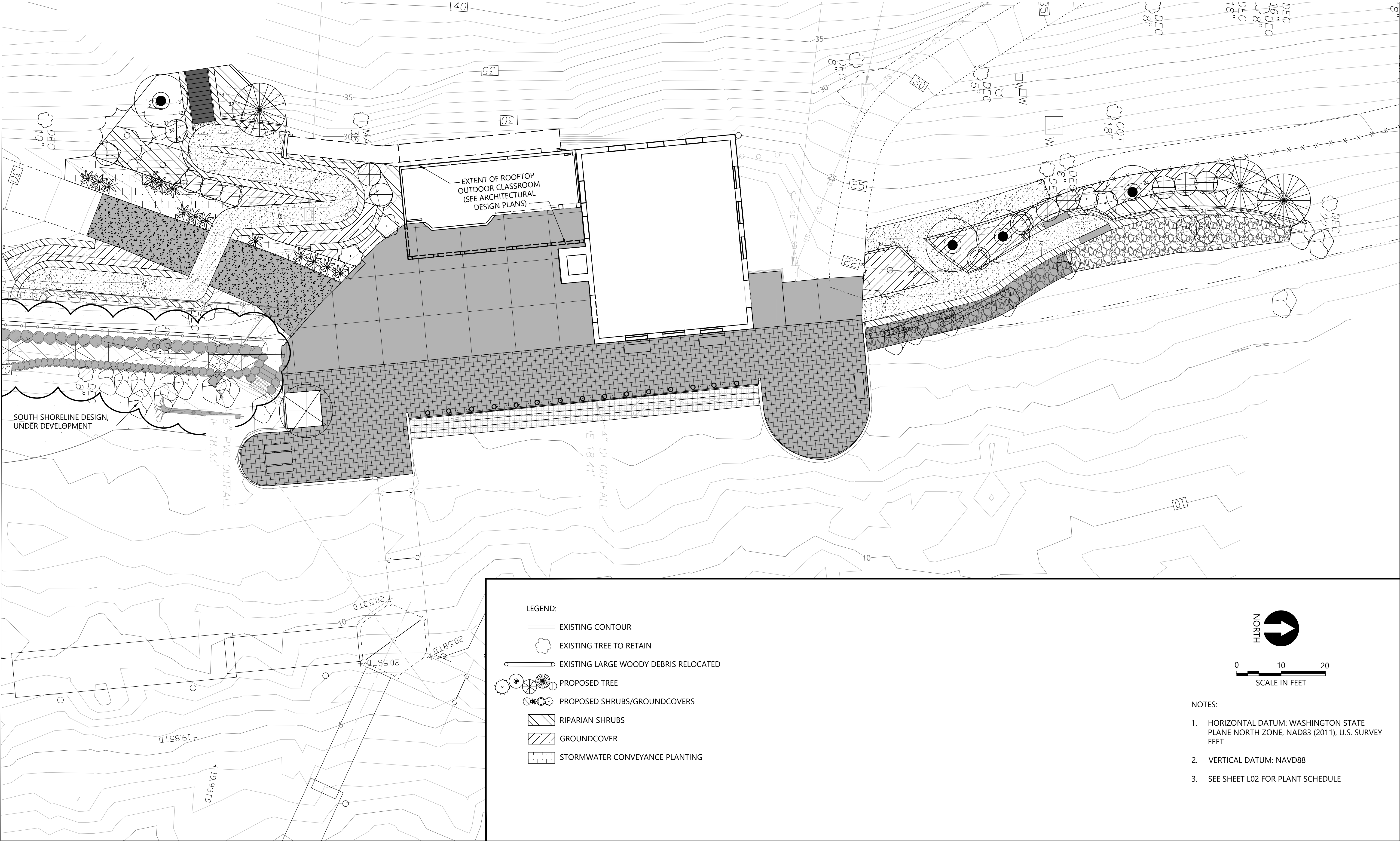
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LUTHER BURBANK PARK PIER REPAIR
CITY OF MERCER ISLAND

MATERIALS PLAN

DRAWN: TG/CW	PROJECT NO.: 2000291
DESIGN: AS	SCALE: AS NOTED
CHECKED: PH	DATE: 09/08/2021
DRAWING NO.	CM-010
SHEET NO. 16	OF 52



LEGEND:

- EXISTING CONTOUR
- EXISTING TREE TO RETAIN
- EXISTING LARGE WOODY DEBRIS RELOCATED
- PROPOSED TREE
- PROPOSED SHRUBS/GROUNDCOVERS
- RIPARIAN SHRUBS
- GROUNDCOVER
- STORMWATER CONVEYANCE PLANTING

NORTH

0 10 20

SCALE IN FEET

NOTES:

- HORIZONTAL DATUM: WASHINGTON STATE PLANE NORTH ZONE, NAD83 (2011), U.S. SURVEY FEET
- VERTICAL DATUM: NAVD88
- SEE SHEET L02 FOR PLANT SCHEDULE

PLANT SCHEDULE						
COMMON NAME	SCIENTIFIC NAME	SIZE	SPACING	QUANTITY	NOTES	
TREES						
GRAND FIR	ABIES GRANDIS	5-6' HT	AS SHOWN	3		
WESTERN RED CEDAR	THUJA PLICATA	5-6' HT	AS SHOWN	3		
BIG LEAF MAPLE	ACER MACROPHYLLUM	1.5" CAL	AS SHOWN	4		
DAWN REDWOOD	METASEQUOIA GLYPTOSTROBOIDES	2" CAL	AS SHOWN	1		
VINE MAPLE	ACER CIRCINATUM	5 GAL	AS SHOWN	9		
HIGH SHRUBS						
INDIAN PLUM	OEMLERIA CERASIFORMIS	2 GAL	AS SHOWN	2		
MOCK ORANGE	PHILADELPHUS LEWISII	2 GAL	AS SHOWN	4		
SHRUBS - RIPARIAN						
SWORD FERN	POLYSTICHUM MUNITUM	1 GAL	3' O.C.			
RED FLOWERING CURRANT	RIBES SANGUINEUM	1 GAL	3' O.C.			
NOOTKA ROSE	ROSA NUTKANA	1 GAL	3' O.C.			
THIMBLEBERRY	RUBUS PARVIFLORUS	1 GAL	3' O.C.			
SNOWBERRY	SYMPHORICARPOS ALBUS	1 GAL	3' O.C.			
GROUNDCOVERS						
SWORD FERN	POLYSTICHUM MUNITUM	1 GAL	3' O.C.			
OREGON GRAPE	MAHONIA NERVOSA	1 GAL	3' O.C.			
SHRUBS/GROUNDCOVERS - STORMWATER CONVEYANCE AREA						
RED OSIER DOGWOOD	CORNUS SERICEA	1 GAL	AS SHOWN	3		
LADY FERN	ATHYRIUM FELIX FEMINA	1 GAL	AS SHOWN	14		
SEED MIX - STORMWATER CONVEYANCE AREA						

Project Element	Estimated Contract Cost	Design Contingency	Mobilization	Construction Contingency	MI Sales Tax	Escalation to 2024	Total Probable Cost			
		20.00%	10.00%	10.00%	10.10%	8.36%				
Large (>26') Powerboat Moorage	\$ 304,235	\$ 60,847	\$ 30,424	\$ 30,424	\$ 30,728	\$ 38,177	\$ 494,833			
Small (<26') Powerboat Moorage	\$ 1,071,020	\$ 214,204	\$ 107,102	\$ 107,102	\$ 108,173	\$ 134,395	\$ 1,741,996			
Non-Powered Watercraft Moorage	\$ 210,740	\$ 42,148	\$ 21,074	\$ 21,074	\$ 21,285	\$ 26,444	\$ 342,765			
Waterfront Access Improvements	\$ 37,464	\$ 7,493	\$ 3,746	\$ 3,746	\$ 3,784	\$ 4,701	\$ 60,935			
Stormwater Management Improvements	\$ 317,929	\$ 63,586	\$ 31,793	\$ 31,793	\$ 32,111	\$ 39,895	\$ 517,106			
Non-Eligible Project Elements	\$ 682,713	\$ 53,289	\$ 26,645	\$ 26,645	\$ 26,911	\$ 33,435	\$ 849,638			
<i>Plaza & Landscape Improvements</i>	\$ 113,287	\$ 22,657	\$ 11,329	\$ 11,329	\$ 11,442	\$ 14,216	\$ 184,259			
<i>On-grade ramp to Outdoor Classroom</i>	\$ 83,124	\$ 16,625	\$ 8,312	\$ 8,312	\$ 8,396	\$ 10,431	\$ 135,200			
Building Improvements	\$ 416,267						\$ 416,267	All costs included in base cost		
<i>Outdoor Classroom</i>	\$ 116,136						\$ 116,136	All costs included in base cost		
<i>Access Ramp</i>	\$ 76,993						\$ 76,993	All costs included in base cost		
<i>Other Improvements</i>	\$ 223,137						\$ 223,137	All costs included in base cost		
<i>Irrigation Intake</i>	\$ 29,745	\$ 5,949	\$ 2,975	\$ 2,975	\$ 3,004	\$ 3,733	\$ 48,380			
<i>North Beach Expansion</i>	\$ 15,224	\$ 3,045	\$ 1,522	\$ 1,522	\$ 1,538	\$ 1,910	\$ 24,762			
<i>Site Furnishings</i>	\$ 14,755	\$ 2,951	\$ 1,476	\$ 1,476	\$ 1,490	\$ 1,852	\$ 23,999			
<i>Plantings</i>	\$ 10,311	\$ 2,062	\$ 1,031	\$ 1,031	\$ 1,041	\$ 1,294	\$ 16,771			
Integrated Art @ 1%	\$ 26,241	\$ 5,248	\$ 2,624	\$ 2,624	\$ 2,650	\$ 3,293	\$ 42,681			
Total Project Construction Cost	\$ 2,650,342						\$ 4,049,953			
Total for Outdoor Classroom							\$ 328,330			