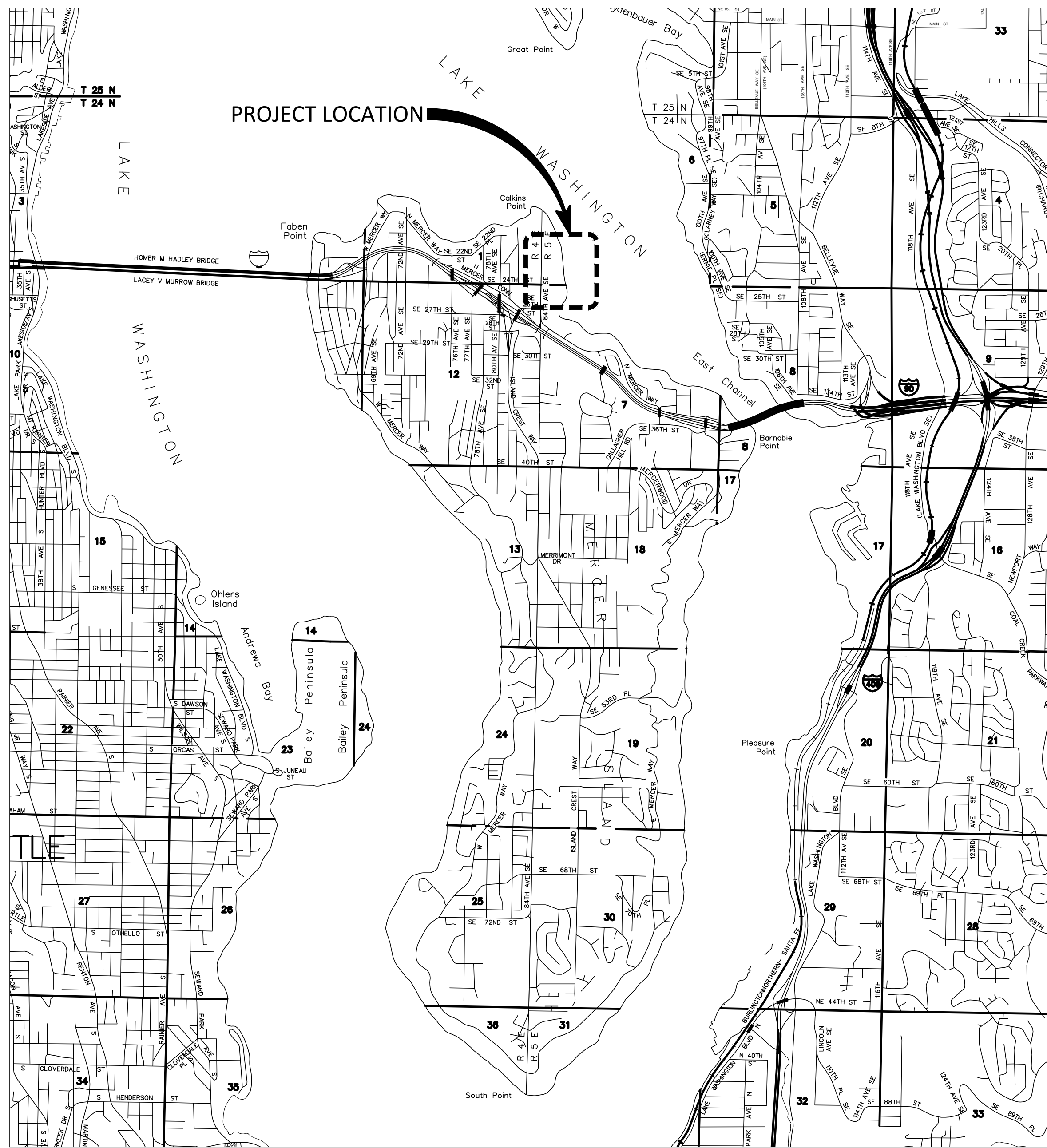


# LUTHER BURBANK PARK COMPREHENSIVE WATERFRONT IMPROVEMENTS CITY OF MERCER ISLAND PUBLIC WORKS DEPARTMENT

## SHEET INDEX



VICINITY MAP

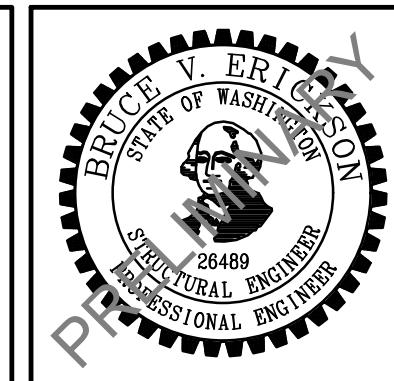
**OWNER**  
 CITY OF MERCER ISLAND PUBLIC WORKS DEPARTMENT  
 9611 SE 36TH STREET  
 MERCER ISLAND, WA 98040

**PROJECT ADDRESS**  
 2048 84TH AVE SE  
 MERCER ISLAND, WA 98040

**PROJECT CONTACT**  
 PAUL WEST  
 (206) 677-1028  
 paul.west@mercerisland.gov

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CAD USER: RICKT PLOT DATE: Apr 12, 2023-10:59am  
 PATH: V:\2000291 (Luther Burbank Pier Repairs)\02\_Design (v2019)\LBPR\_G-001.dwg



NO.	DATE	BY	REVISION
1	4/14/2023	WBC	LAND USE PERMIT REVISION
1A	4/14/2023		MIFD COMMENT REVISION



**LUTHER BURBANK PARK  
 WATERFRONT IMPROVEMENTS**

COVER SHEET

DRAWN: RRT	PROJECT NO.: 2200248
DESIGN: WBC	SCALE: AS SHOWN
CHECKED: AKB	DATE: 10/7/2022
DRAWING NO.	<b>G-001</b>
SHEET NO.	1 OF 56

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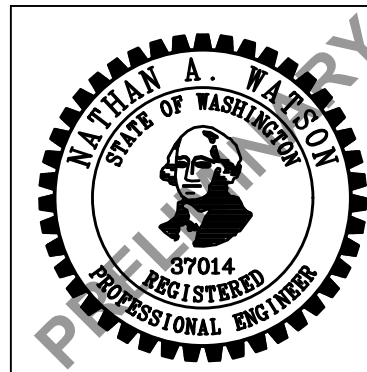
## PROJECT GENERAL NOTES

1. UNLESS NOTED OTHERWISE CONTRACTOR SHALL FOLLOW THE WSDOT SPECIFICATIONS FOR ROAD, BRIDGE AND MUNICIPAL CONSTRUCTION (2018).
2. DATUM:
  - A. VERTICAL DATUM: NAVD 88, OLWM: 16.75, OHWM: 18.67
  - B. HORIZONTAL DATUM: NAD83
3. BOUNDARY SURVEY: TOPOGRAPHIC SURVEY AND CONTROL PROVIDED BY KPFF IN AUGUST OF 2020, ADDITIONAL SURVEY COMPLETED IN JUNE 2022 AND JANUARY 2023.
4. BATHYMETRY: BATHYMETRIC CONTOURS COLLECTED BY WILSON ENGINEERING.
5. EXISTING STRUCTURES:
  - A. CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS OF EXISTING STRUCTURES THAT MAY IMPACT THE WORK.
  - B. CONTRACTOR SHALL COORDINATE WITH THE ENGINEER, IF THERE ARE ANY CONFLICTS BETWEEN PROPOSED WORK AND EXISTING STRUCTURES TO REMAIN ON-SITE.
6. UTILITIES:
  - A. CONTRACTOR SHALL UTILIZE A UTILITY LOCATE SERVICE TO IDENTIFY UNDERGROUND UTILITIES, AT LEAST 48 HOURS PRIOR TO CONSTRUCTION AT THE SITE.
  - B. CONTRACTOR SHALL PROTECT-IN-PLACE ALL UTILITIES THAT ARE NOT INDICATED FOR DEMOLITION.
  - C. ANY DAMAGE TO EXISTING UTILITIES, FACILITIES OR EQUIPMENT, EXCEPT ITEMS TO BE DEMOLISHED, SHALL BE REPAIRED BY AND AT THE EXPENSE OF THE CONTRACTOR.
  - D. EXISTING BURIED WATER AND SANITARY UTILITIES CURRENTLY AT UNKNOWN LOCATIONS. CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING ALL UNKNOWN UTILITIES IN UPLAND AREA PRIOR TO ANY TEMPORARY UTILITY RE-ROUTE IMPLEMENTATION.
  - E. CONTRACTOR SHALL COORDINATE WITH THE ENGINEER AND OWNER FOR ALL MAINTAINED UTILITY SERVICES INCLUDING, BUT NOT LIMITED TO EXISTING STORM DRAINAGE, WATER AND ELECTRICAL LINES. IF NEEDED CONTRACTOR SHALL COORDINATE THE ACTIVATION AND DE-ACTIVATION OF UTILITIES WITH THE ENGINEER AND OWNER. CONTRACTOR SHALL PROVIDE A MINIMUM OF 2 DAYS ADVANCE WRITTEN NOTICE TO THE ENGINEER AND OWNER.
7. TRAFFIC CONTROL:
  - A. CONTRACTOR SHALL BE RESPONSIBLE FOR ANY VEHICULAR OR PEDESTRIAN TRAFFIC CONTROL REQUIRED DURING THE PROJECT. ALL TRAFFIC CONTROL SHALL BE IN ACCORDANCE TO THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (MUTCD).
8. IN WATER WORK:
  - A. CONTRACTOR SHALL LOCATE ALL EQUIPMENT WITHIN PROJECT WORK AREA LIMITS.
  - B. IN WATER WORK SHALL BE COMPLETED IN ACCORDANCE WITH THE PROJECT PERMITS.
9. STORMWATER POLLUTION PREVENTION PLAN (SWPPP):
  - A. CONTRACTOR SHALL PROVIDE THE SWPPP.

## CODES AND DESIGN CRITERIA:

1. STORM DRAINAGE:
  - A. STORM DRAINAGE SYSTEM IS DESIGNED USING AND SHALL CONFORM TO THE 2014 DEPARTMENT OF ECOLOGY STORM WATER MANUAL.
  - B. CONTRACTOR SHALL BE RESPONSIBLE FOR RE-ROUTING STORMWATER DURING CONSTRUCTION.
  - C. CONTRACTOR SHALL PROVIDE ALL PUMPS, TANKS, PIPES, HOSES, APPURTENANCES AND POWER TO COLLECT AND DISCHARGE THE STORMWATER DURING CONSTRUCTION ACTIVITIES.
2. FIRE PROTECTION SYSTEM:
  - A. THE FIRE PROTECTION SYSTEM INCLUDING PIPES AND APPURTENANCES SHALL CONFORM TO THE 2018 VERSION OF THE INTERNATIONAL FIRE CODE, PARTICULARLY CHAPTER 36 – MARINAS AND BOATYARDS. THE FIRE SYSTEM SHALL ALSO CONFORM TO THE 2019 EDITION OF THE NFPA 14 FOR THE INSTALLATION OF STANDPIPES AND HOSE SYSTEMS. WHERE THERE IS CONFLICT THE SEATTLE FIRE CODE SHALL BE ADHERED TO.
  - B. PORTABLE FIRE EXTINGUISHERS WITH A MINIMUM RATING OF 2A 20-BC SHALL BE PLACED ON THE DOCK AND FLOAT AT EACH STANDPIPE LOCATION AND ADDITIONALLY SUCH THAT NO PORTION OF THE FLOAT MORE THAN 75 FEET FROM AN EXTINGUISHER.
  - C. A SIGN AT DOCK STATING THE FOLLOWING IS REQUIRED: LOCATIONS OF FIRST AID FACILITIES, TELEPHONES, FIRE FIGHTING EQUIPMENT, EMERGENCY EQUIPMENT, AND FIRE EXITS. A SIGN SHOULD ALSO INCLUDE TELEPHONE NUMBERS OF CLOSE AMBULANCE SERVICE, HOSPITAL, POLICE, AND FIRE DEPARTMENT.
  - D. FOR FIRE PROTECTION ON FLOAT, ABOVE WATER LEVEL PIPING SHALL BE GALVANIZED STEEL OF THE SIZE SHOWN IN THE DRAWINGS.
  - E. FOR FIRE PROTECTION ON FLOAT, BELOW WATER LEVEL PIPING SHALL BE HDPE OF A PRESSURE CLASS TO WITHSTAND THE REQUIREMENTS OF THE FIRE CODE.
  - F. FIRE SUPPRESSION SYSTEM SHALL CONSIST OF 6"Ø PIPING IN A DRY SYSTEM UNLESS NOTED OTHERWISE IN PLAN.

CAD USER: dgilbert PLOT DATE: Apr 13, 2023-02:23pm  
 PATH: \\kpf\proj\Projects\2020\20000291 Luther Burbank Park\Drawings\Current (DWG2018)\G-002 PROJECT GENERAL NOTES.dwg



NO.	DATE	BY	REVISION
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LUTHER BURBANK PARK  
 WATERFRONT IMPROVEMENTS

PROJECT GENERAL NOTES

DRAWN: AS	PROJECT NO.: 2200248
DESIGN: SS	SCALE: AS SHOWN
CHECKED: NAW	DATE: 10/07/2022
DRAWING NO.	<b>G-002</b>
SHEET NO.	02 of 56

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CAD USER: dgilbert PLOT DATE: Apr 13, 2023-02:23pm  
 PATH: \\kpf\proj\Projects\2020\20000291 Luther Burbank Park\Drawings\Current (DWG2018)\G-003 TEMPORARY ACCESS AND STAGING PLAN.dwg

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**LUTHER BURBANK PARK  
 WATERFRONT IMPROVEMENTS**

TEMPORARY ACCESS PLAN

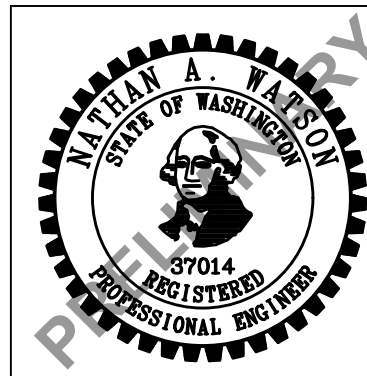
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SHEET NO.	03 of 56

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CAD USER: dgilbert PLOT DATE: Apr 13, 2023-02:23pm  
 PATH: \\kpf\proj\Projects\2020\20000291 Luther Burbank Park\Drawings\Current (DWG2018)\G-010 EXISTING CONDITIONS SITE PLAN.dwg



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**LUTHER BURBANK PARK**  
**WATERFRONT IMPROVEMENTS**  
 EXISTING CONDITIONS SITE PLAN

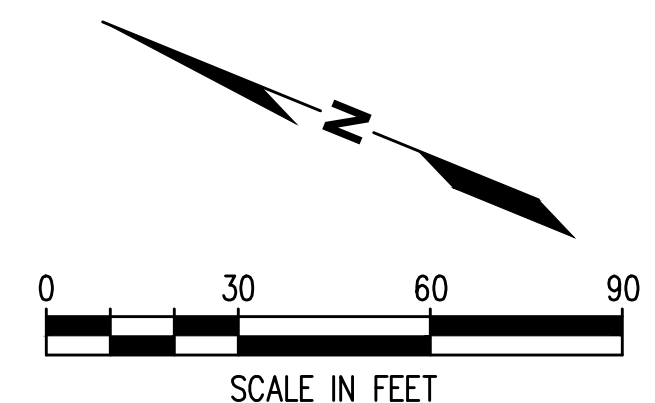
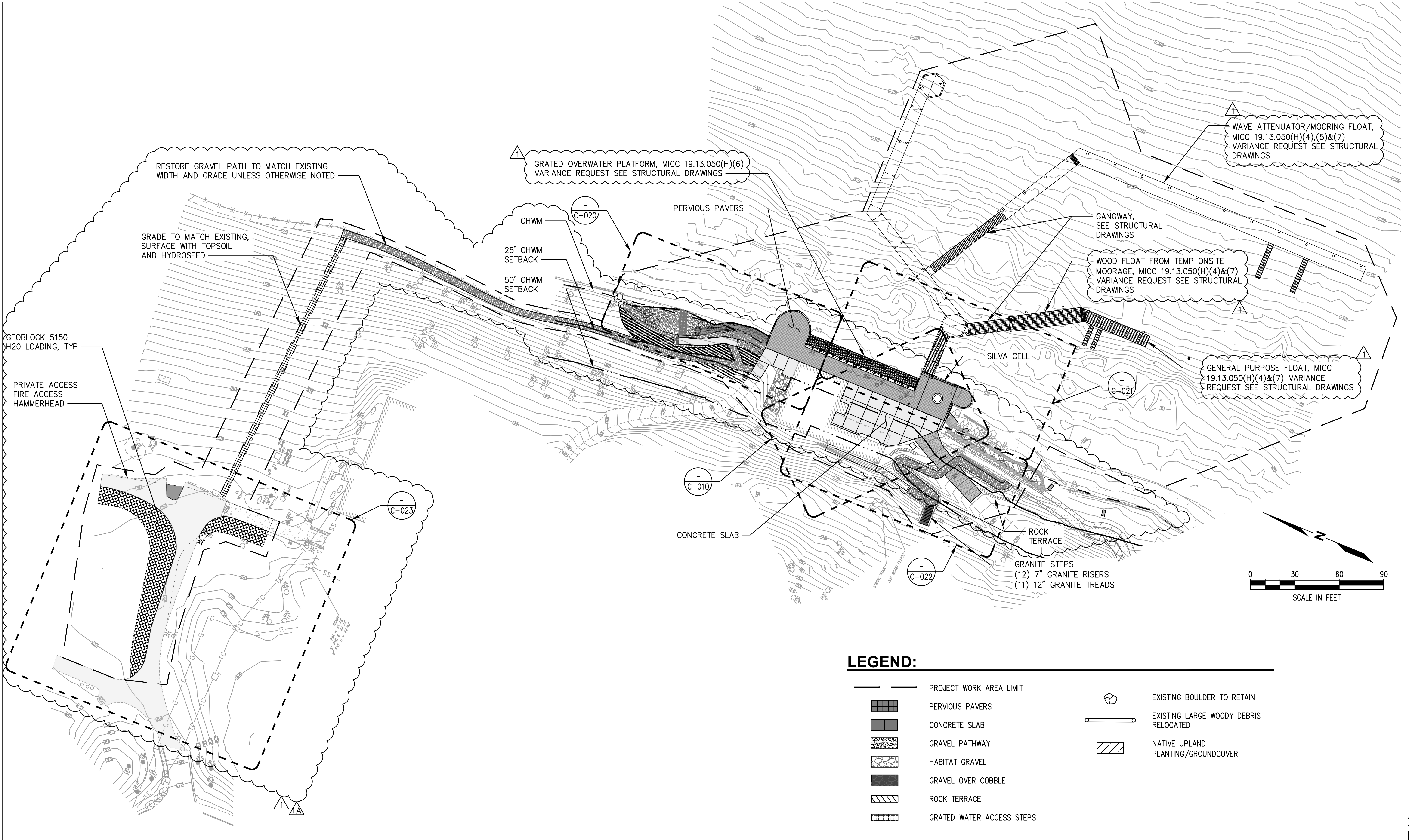
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CHECKED: NAW	DATE: 10/07/2022
DRAWING NO.	<b>G-010</b>
SHEET NO.	04 of 56

60% SUBMITTAL



SURVEY CONTROL POINTS				
PT#	NORTHING	EASTING	ELEV.	DESCRIPTION
1	218687.77	1297187.55	20.13	MNSPK
2	218508.81	1297289.24	20.61	MNPK/#106
3	218580.88	1297164.23	20.30	MNSPK/SET
4	218754.23	1297083.13	37.50	MNPK/SET
10	218915.77	1297048.98	40.54	SET HMN
11	219043.48	1296954.00	50.76	SET MN
12	219023.84	1296819.48	59.47	SET HMN
13	218848.36	1296768.06	66.98	SET HMN
51	218400.59	1297300.40	20.61	MNPK/SET
52	218553.93	1297252.42	20.55	MNPK/SET
53	218607.69	1297241.95	20.55	MNPK/SET
54	218676.32	1297303.31	20.57	MNPK/SET

CAD USER: dgilbert PLOT DATE: Apr 13, 2023-02:23pm  
 PATH: \\kpf\itac\Projects\2020\20000291 Luther Burbank Park\Drawings\Current (DWG2018)\G-020 OVERALL SITE AND SURFACING PLAN.dwg



**LEGEND:**

- PROJECT WORK AREA LIMIT
- PERVIOUS PAVERS
- CONCRETE SLAB
- GRAVEL PATHWAY
- HABITAT GRAVEL
- GRAVEL OVER COBBLE
- ROCK TERRACE
- GRATED WATER ACCESS STEPS
- EXISTING BOULDER TO RETAIN
- EXISTING LARGE WOODY DEBRIS RELOCATED
- NATIVE UPLAND PLANTING/GROUNDCOVER



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**LUTHER BURBANK PARK  
 WATERFRONT IMPROVEMENTS**

**OVERALL SITE IMPROVEMENT AND SURFACING PLAN**

DRAWN: AS	PROJECT NO.: 2200248
DESIGN: SS	SCALE: 1" = 20'
CHECKED: NAW	DATE: 10/07/2022
DRAWING NO.	<b>G-020</b>
SHEET NO.	05 of 56

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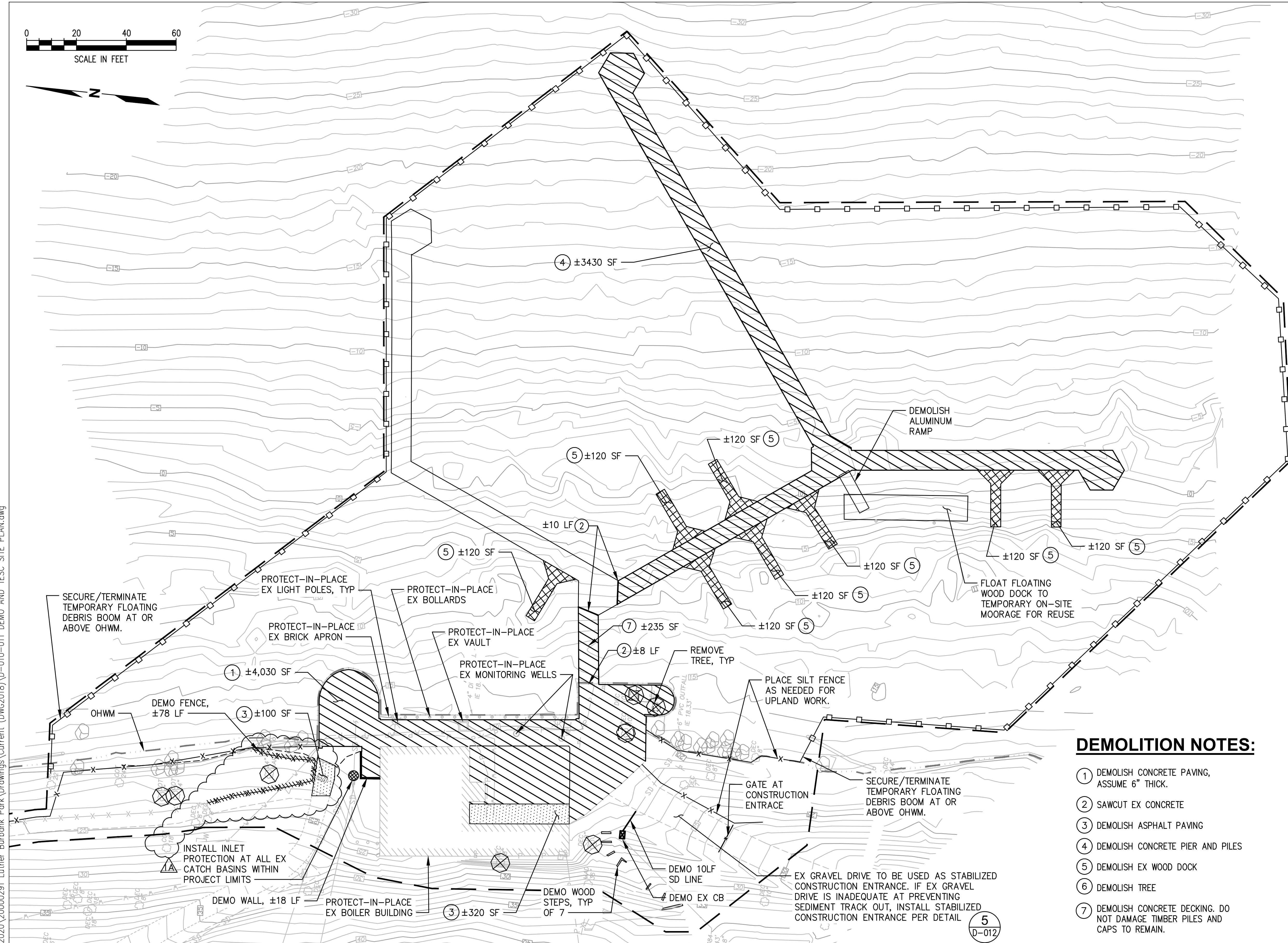


**NOTES:**

- CONTRACTOR SHALL INSTALL TESC MEASURES BEFORE COMMENCEMENT OF ANY OTHER WORK ON SITE.
- CONTRACTOR SHALL MAINTAIN ACCESS AND PROTECT WATER VALVES, MONITORING WELLS, OVERHEAD LIGHTS AND LIGHT POLES. CONTRACTOR SHALL REPAIR OR REPLACE ALL ITEMS DAMAGED DURING CONSTRUCTION.
- ALL DEMOLISHED MATERIAL SHALL BECOME THE PROPERTY OF THE CONTRACTOR. CONTRACTOR SHALL BE RESPONSIBLE TO DISPOSE OF DEMOLISHED AND EXCAVATED MATERIAL AT A PERMITTED DISPOSAL FACILITY.
- CONTRACTOR SHALL INSTALL TESC MEASURES BEFORE PAVEMENT REMOVAL AND EXCAVATION.
- CONTRACTOR SHALL PROVIDE SWEEPING AS NEEDED.
- CONTRACTOR SHALL COORDINATE WITH SITE OWNER TO DETERMINE AN APPROPRIATE STOCKPILE LAYDOWN AREA WITHIN PROJECT LIMITS. SEE DETAIL 2 ON SHEET D-012.
- INLET PROTECTION SHALL BE PLACED IN ALL CATCH BASINS IN THE VICINITY OF THE PROPERTY LIMITS PRIOR TO THE COMMENCEMENT OF WORK AND MAINTAINED FOR THE DURATION OF THE PROJECT.
- UPON COMPLETION OF PROJECT CONTRACTOR SHALL CLEAN AND RE-INSTALL INLET PROTECTION AND LEAVE IN PLACE WITHIN PROPERTY LIMITS.

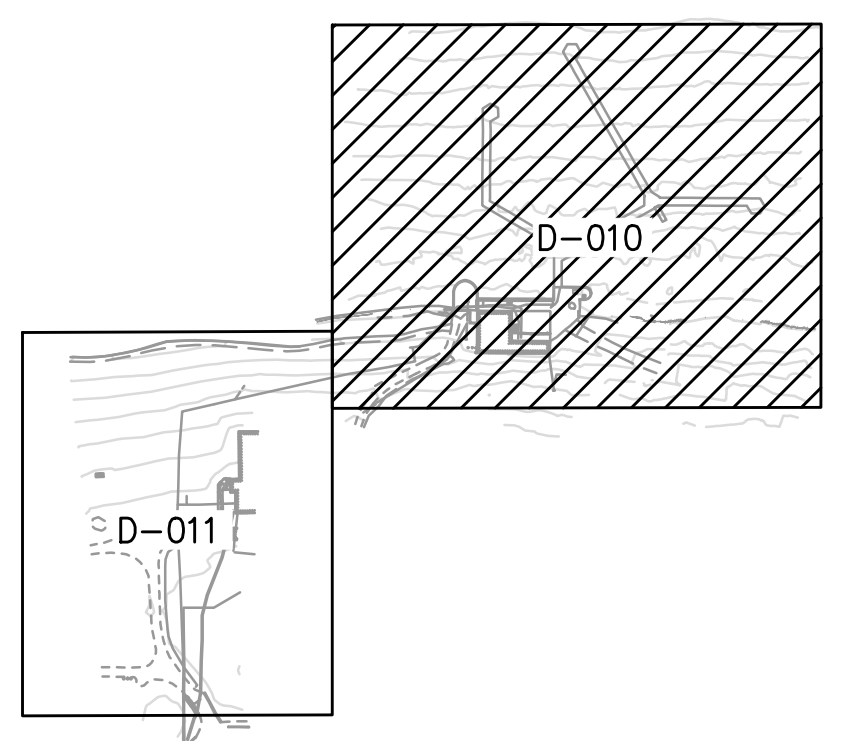
**LEGEND:**

- OHWM LINE
- PROJECT WORK AREA LIMITS
- TEMPORARY FLOATING DEBRIS BOOM
- SILT FENCE 4  
D-012
- INLET PROTECTION 3  
D-012
- REMOVE TREE
- DEMOLISH CONCRETE/PAVERS
- DEMOLISH ASPHALT
- DEMOLISH WOOD DOCK



**DEMOLITION NOTES:**

- DEMOLISH CONCRETE PAVING, ASSUME 6" THICK.
- SAWCUT EX CONCRETE
- DEMOLISH ASPHALT PAVING
- DEMOLISH CONCRETE PIER AND PILES
- DEMOLISH EX WOOD DOCK
- DEMOLISH TREE
- DEMOLISH CONCRETE DECKING. DO NOT DAMAGE TIMBER PILES AND CAPS TO REMAIN.

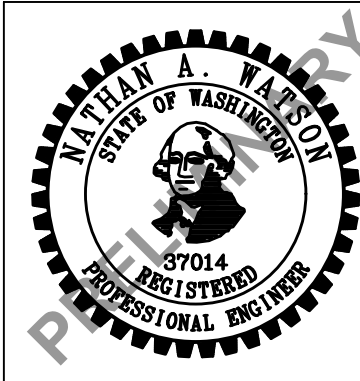


**KEY PLAN**

CAD USER: dgilbert PLOT DATE: Apr 13, 2023-02:23pm  
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**LUTHER BURBANK PARK**  
**WATERFRONT IMPROVEMENTS**

DEMO AND TESC SITE PLAN - 1

DRAWN: AS	PROJECT NO.: 2200248
DESIGN: SS	SCALE: 1" = 20'
CHECKED: NAW	DATE: 10/07/2022
DRAWING NO.	<b>D-010</b>
SHEET NO.	06 of 56

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CAD USER: dgilbert PLOT DATE: Apr 13, 2023-02:23pm  
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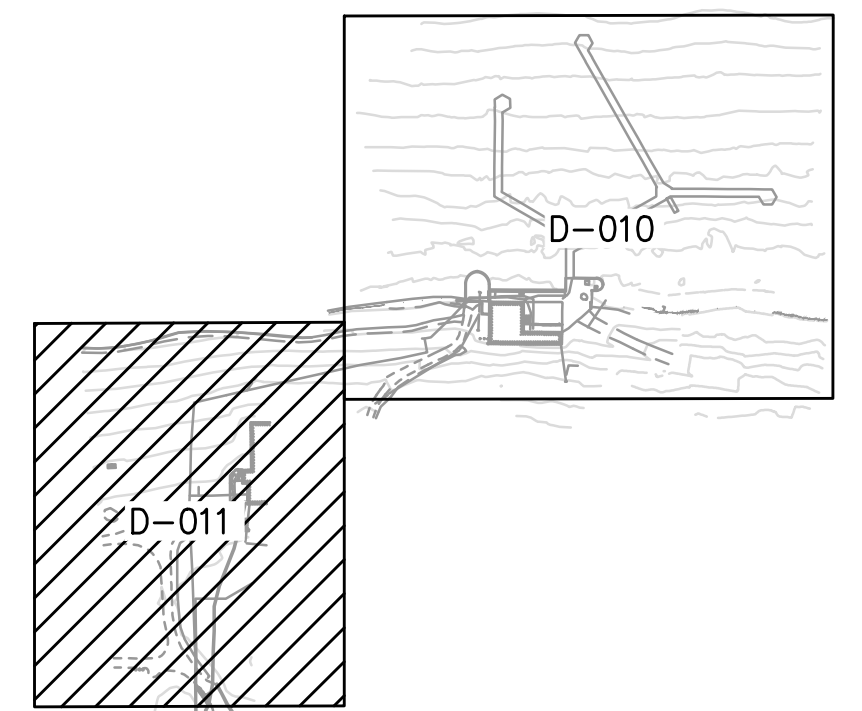
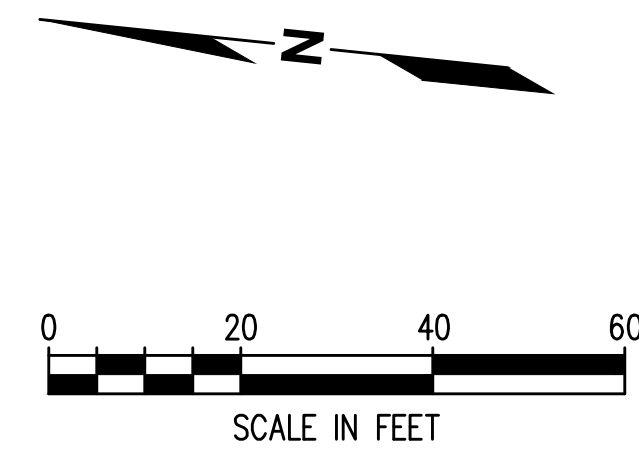
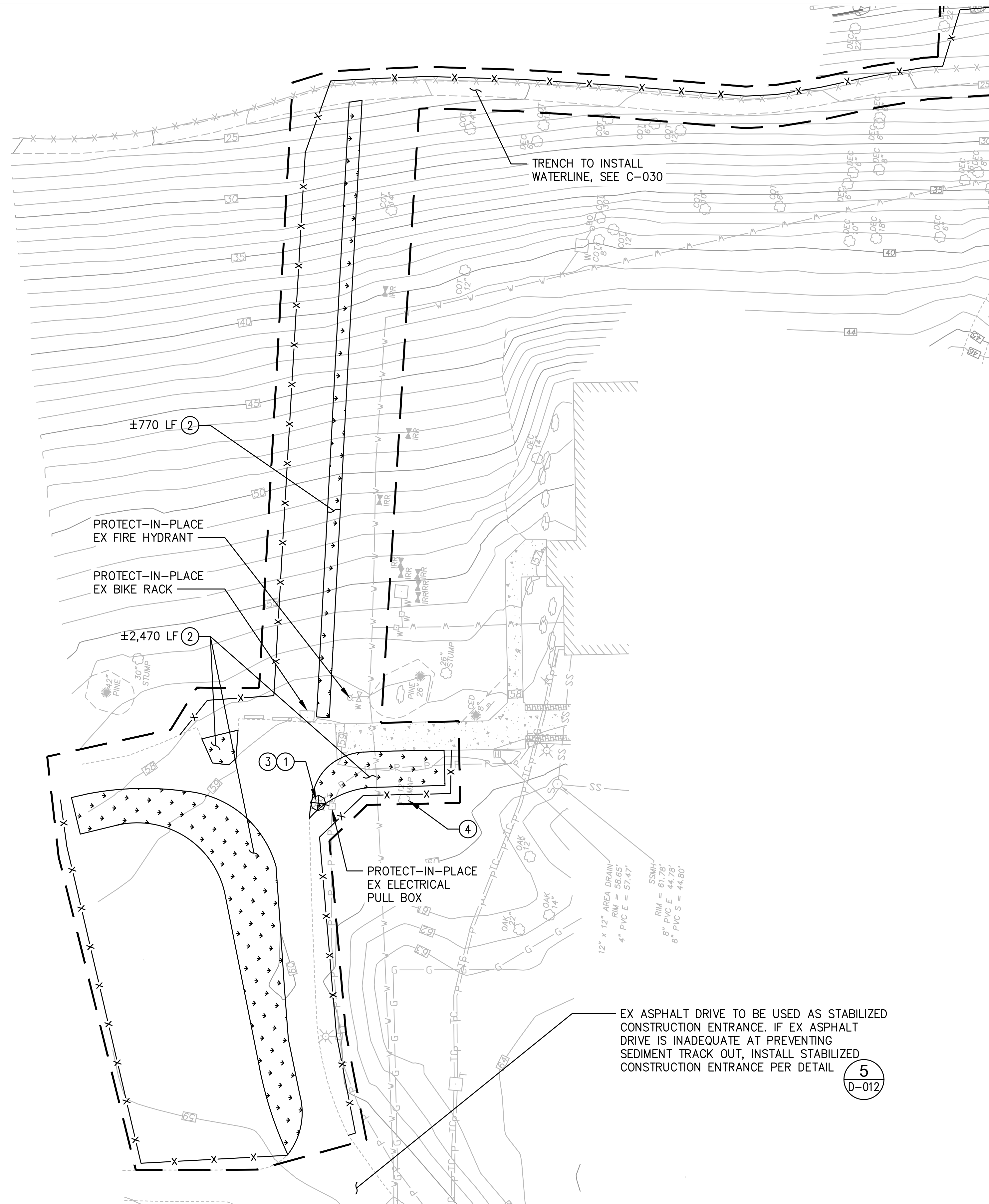


LUTHER BURBANK PARK  
 WATERFRONT IMPROVEMENTS

DEMO AND TESC SITE PLAN - 2

**KEY PLAN**

DRAWN: AS	PROJECT NO.: 2200248
DESIGN: SS	SCALE: 1" = 30'
CHECKED: NAW	DATE: 10/07/2022
DRAWING NO.	<b>D-011</b>
SHEET NO.	07 of 56



**NOTES:**

- CONTRACTOR SHALL INSTALL TESC MEASURES BEFORE COMMENCEMENT OF ANY OTHER WORK ON SITE.
- CONTRACTOR SHALL MAINTAIN ACCESS AND PROTECT WATER VALVES, MONITORING WELLS, OVERHEAD LIGHTS AND LIGHT POLES. CONTRACTOR SHALL REPAIR OR REPLACE ALL ITEMS DAMAGED DURING CONSTRUCTION.
- ALL DEMOLISHED MATERIAL SHALL BECOME THE PROPERTY OF THE CONTRACTOR. CONTRACTOR SHALL BE RESPONSIBLE TO DISPOSE OF DEMOLISHED AND EXCAVATED MATERIAL AT A PERMITTED DISPOSAL FACILITY.
- CONTRACTOR SHALL INSTALL TESC MEASURES BEFORE PAVEMENT REMOVAL AND EXCAVATION.
- CONTRACTOR SHALL PROVIDE SWEEPING AS NEEDED.
- CONTRACTOR SHALL COORDINATE WITH SITE OWNER TO DETERMINE AN APPROPRIATE STOCKPILE LAYDOWN AREA WITHIN PROJECT LIMITS. SEE DETAIL 2 ON SHEET D-012.
- INLET PROTECTION SHALL BE PLACED IN ALL CATCH BASINS IN THE VICINITY OF THE PROPERTY LIMITS PRIOR TO THE COMMENCEMENT OF WORK AND MAINTAINED FOR THE DURATION OF THE PROJECT.
- UPON COMPLETION OF PROJECT CONTRACTOR SHALL CLEAN AND RE-INSTALL INLET PROTECTION AND LEAVE IN PLACE WITHIN PROPERTY LIMITS.

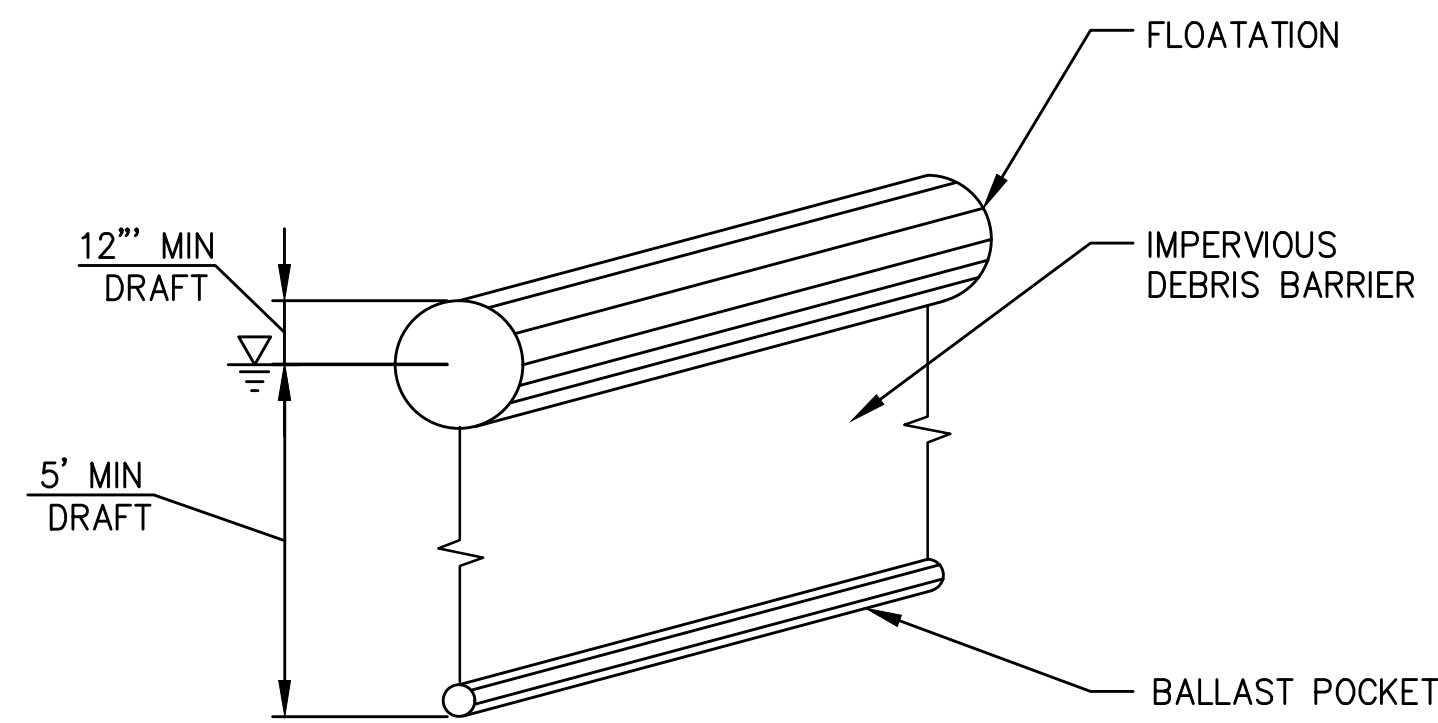
**LEGEND:**

- — — — — OHWM LINE
- — — — — PROJECT WORK AREA LIMITS
- x-x-x-x-x SILT FENCE (4 D-012)
- ⊕ DEMOLISH ITEM
- ▣ GRUB EX GRASS

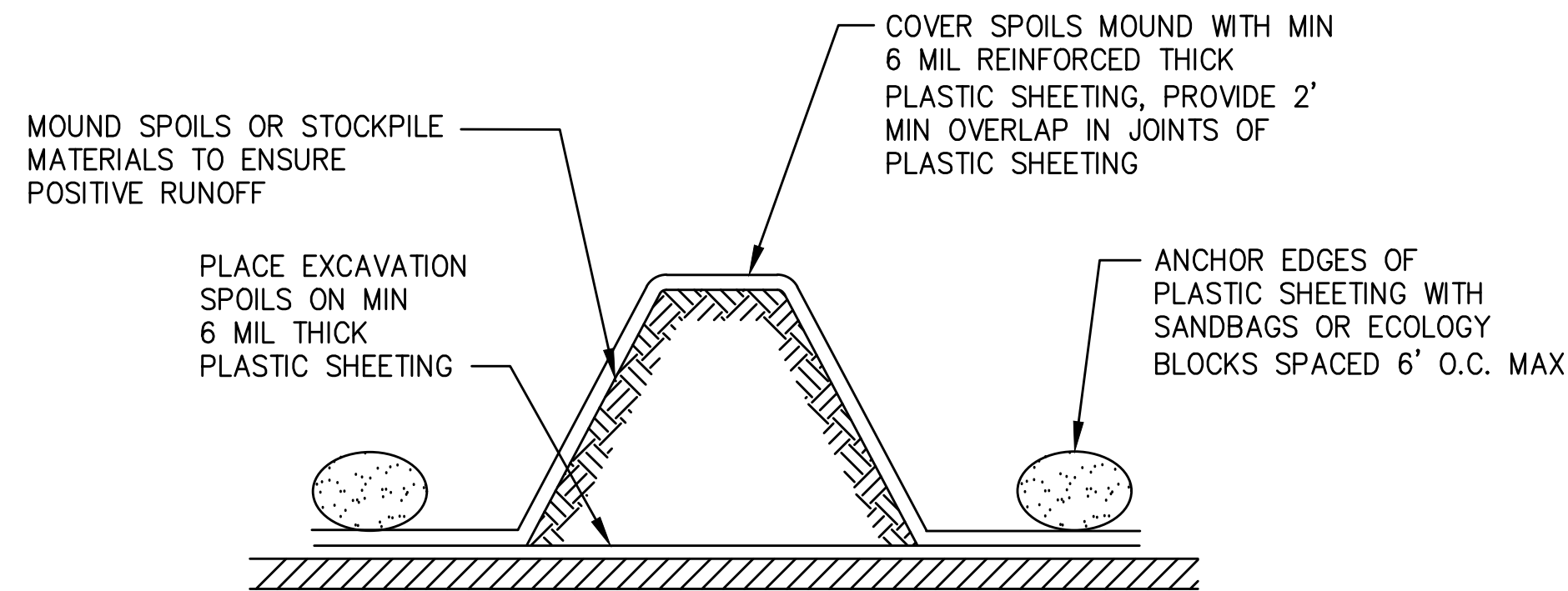
**DEMOLITION NOTES:**

- ① SALVAGE EX LIGHT POLE
- ② GRUB EX SOD
- ③ DEMOLISH EX LIGHT POLE FOUNDATION
- ④ PROTECT IN PLACE EX MAPLE TREE, SOD AND SOIL REMOVAL IN ACCORDANCE WITH G-022

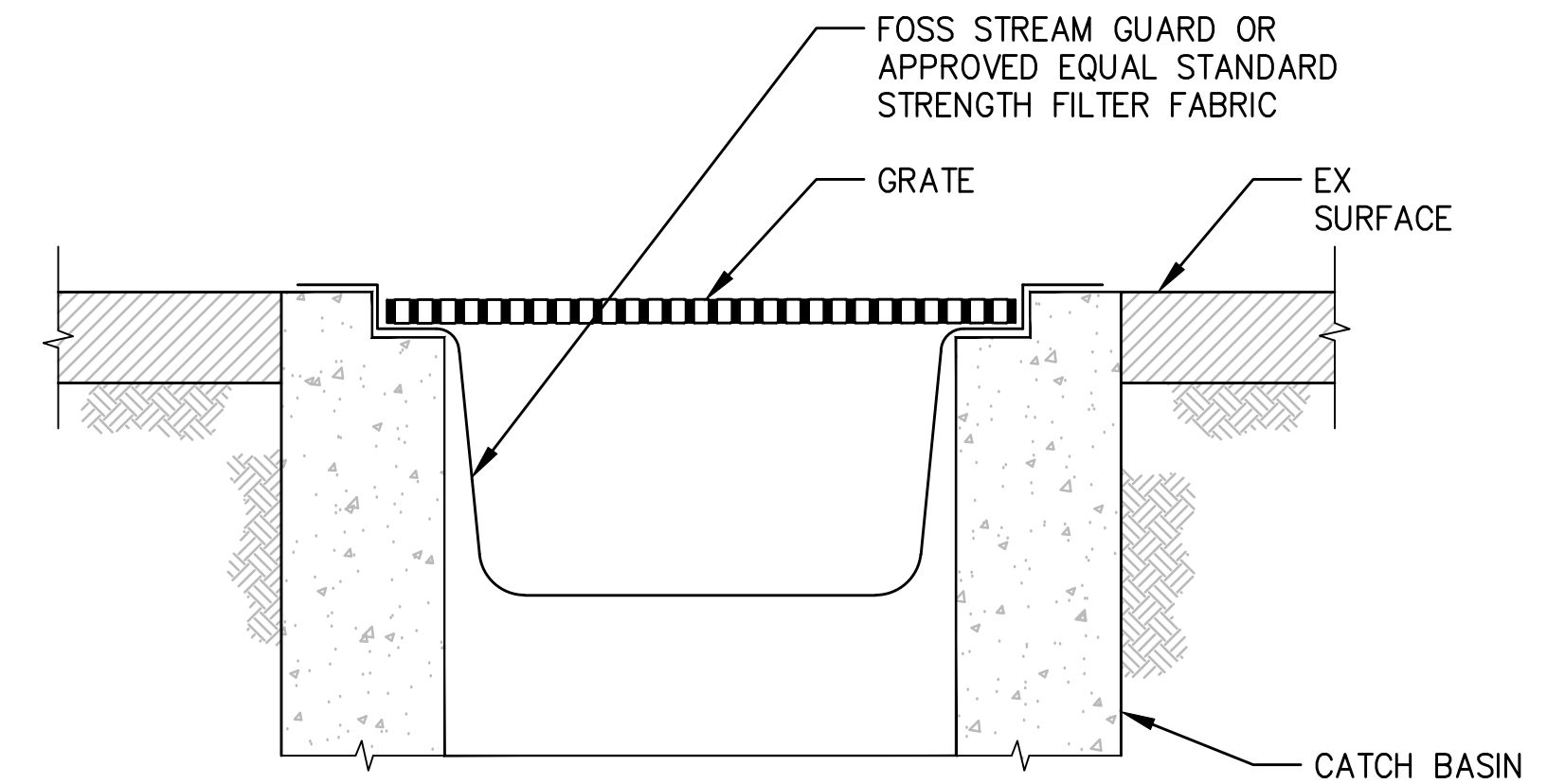
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**1 DEBRIS BOOM**  
NTS



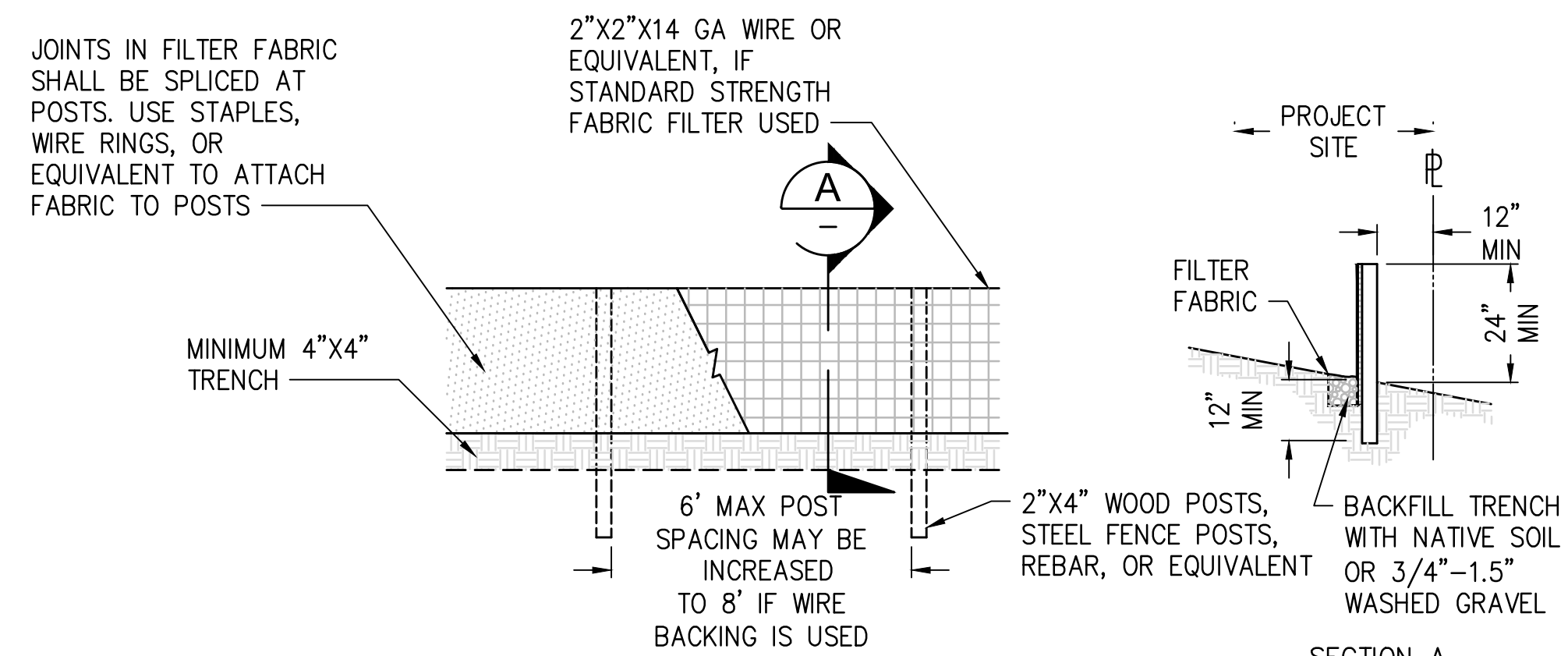
**2 STOCKPILE PROTECTION DETAIL**  
NTS



**MAINTENANCE STANDARDS:**

- EXISTING CATCH BASINS SHALL BE FITTED WITH FILTER FABRIC AS SHOWN.
- ANY ACCUMULATED SEDIMENT ON OR AROUND THE FILTER FABRIC SHALL BE REMOVED IMMEDIATELY. SEDIMENT SHALL NOT BE REMOVED BY FLUSHING WITH WATER. ALL SEDIMENT MUST BE DISPOSED OF OFF-SITE.

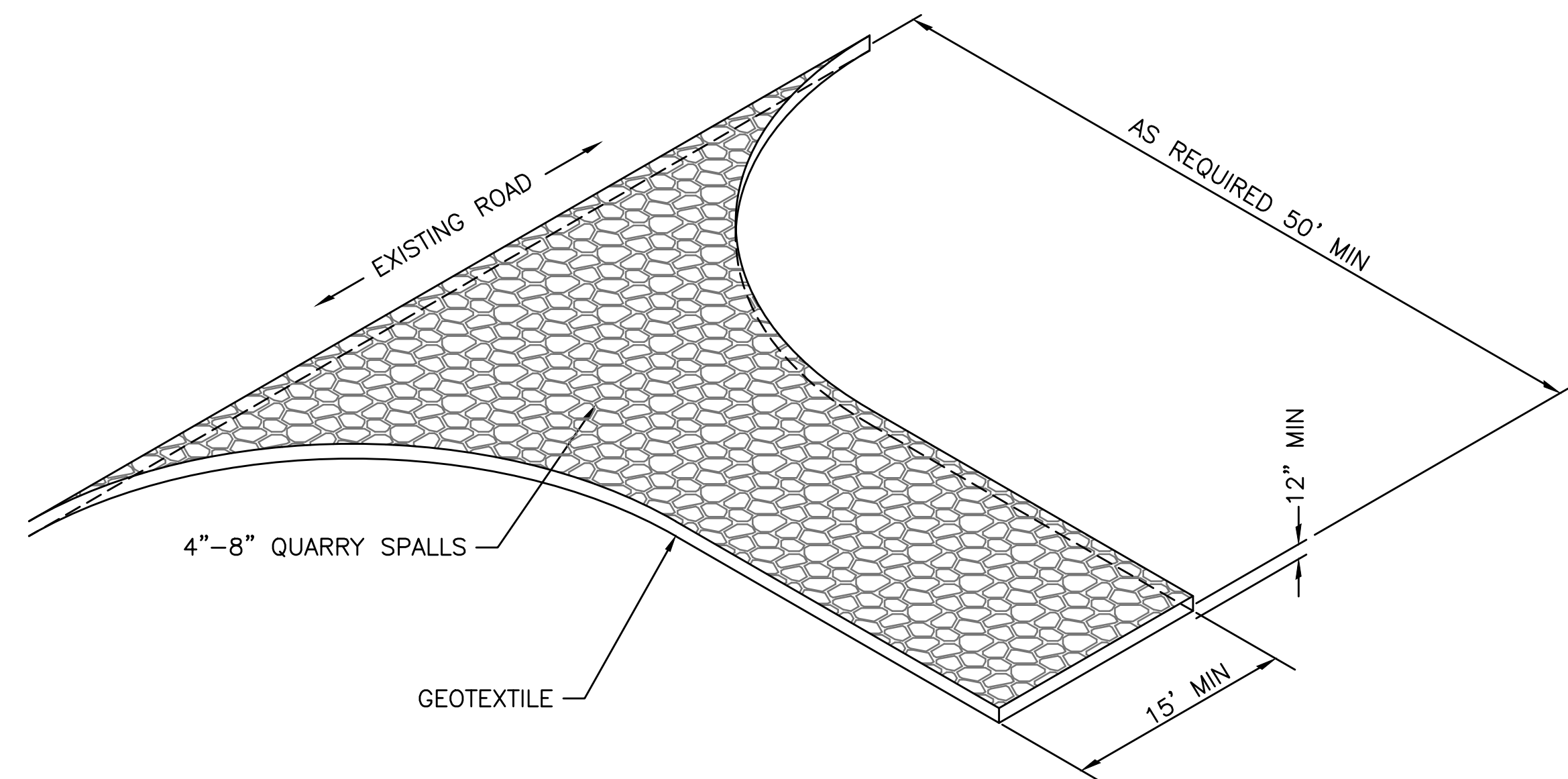
**3 INLET PROTECTION DETAIL**  
NTS



**4 SILT FENCE**  
NTS

**MAINTENANCE NOTES:**

- REPAIR ANY DAMAGE IMMEDIATELY.
- IF CONCENTRATED FLOWS ARE EVIDENT UPHILL OF THE FENCE, INTERCEPT AND CONVEY THEM TO A SEDIMENT POND.
- IT IS IMPORTANT TO CHECK THE UPHILL SIDE OF THE FENCE FOR SIGNS OF THE FENCE CLOGGING, ACTING AS A BARRIER TO FLOW, AND THEN CAUSING CHANNELIZATION OF FLOWS PARALLEL TO THE FENCE. IF THIS OCCURS, REPLACE THE FENCE OR REMOVE THE TRAPPED SEDIMENT.
- REMOVE SEDIMENT DEPOSITS WHEN THE DEPOSIT REACHES APPROXIMATELY ONE-THIRD THE HEIGHT OF THE SILT FENCE, OR INSTALL A SECOND SILT FENCE.
- IF THE FILTER FABRIC (GEOTEXTILE) HAS DETERIORATED DUE TO ULTRAVIOLET BREAKDOWN, REPLACE IT.

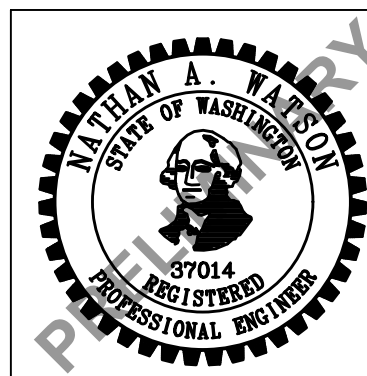


**5 CONSTRUCTION ENTRANCE DETAIL**  
NTS

CAD USER: dgilbert PLOT DATE: Apr 13, 2023-02:24pm  
 PATH: \\kpf\proj\Projects\2020\20000291 Luther Burbank Park\Drawings\Current (DWG2018)\D-012 TESC DETAILS.dwg



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**LUTHER BURBANK PARK**  
**WATERFRONT IMPROVEMENTS**

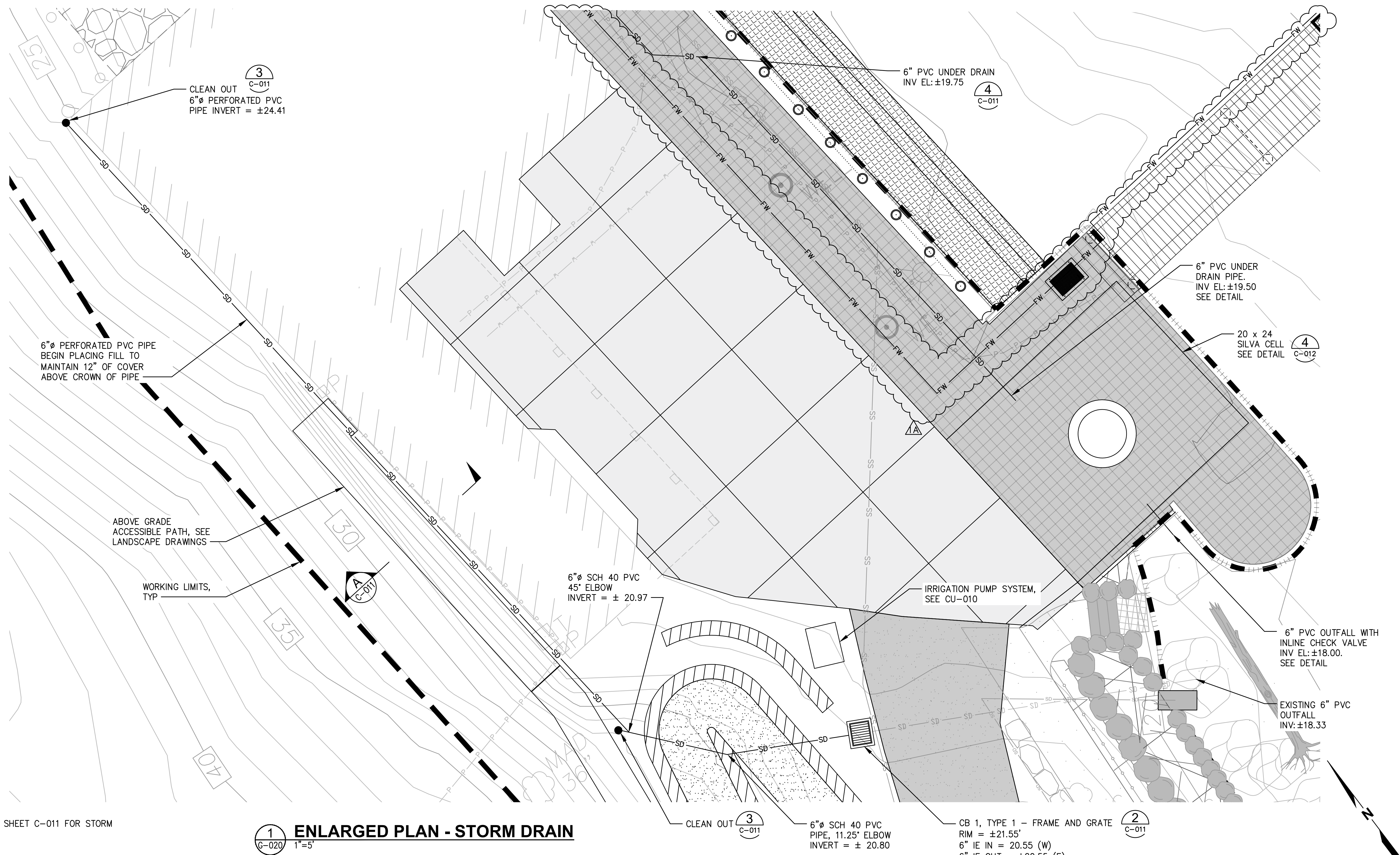
TESC DETAILS

DRAWN: AS	PROJECT NO.: 2200248
DESIGN: SS	SCALE: AS SHOWN
CHECKED: NAW	DATE: 10/07/2022
DRAWING NO.	<b>D-012</b>
SHEET NO.	08 of 56

60% SUBMITTAL



CAD USER: dgilbert PLOT DATE: Apr 13, 2023-02:36pm  
 PATH: \\kpf\proj\Projects\2020\20000291\Luther Burbank Park\Drawings\Current (DWG2018)\C-010 ENLARGED PLAN - STORM DRAIN.dwg

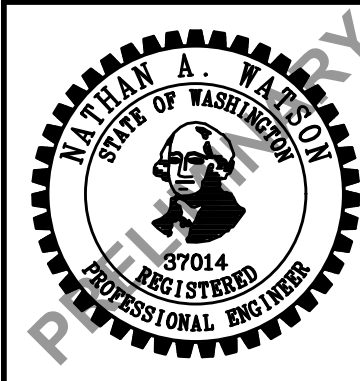


**NOTES**  
 1. SEE SECTION B ON SHEET C-011 FOR STORM DRAIN PROFILE.

**1 ENLARGED PLAN - STORM DRAIN**  
 C-020 1"=5'



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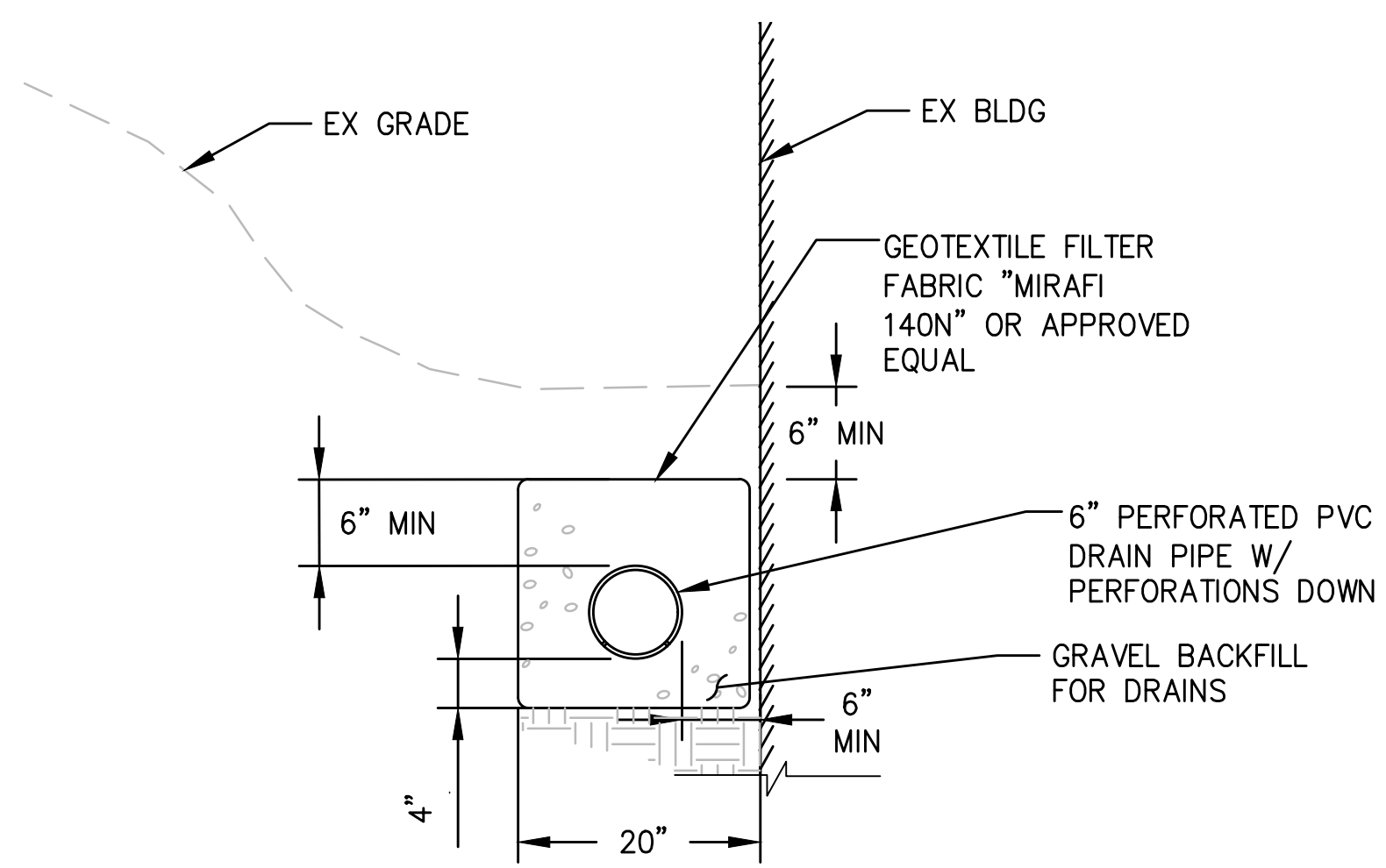
NO.	DATE	BY	REVISION
1A	4/14/2023	ROL	MIFD COMMENT REVISION



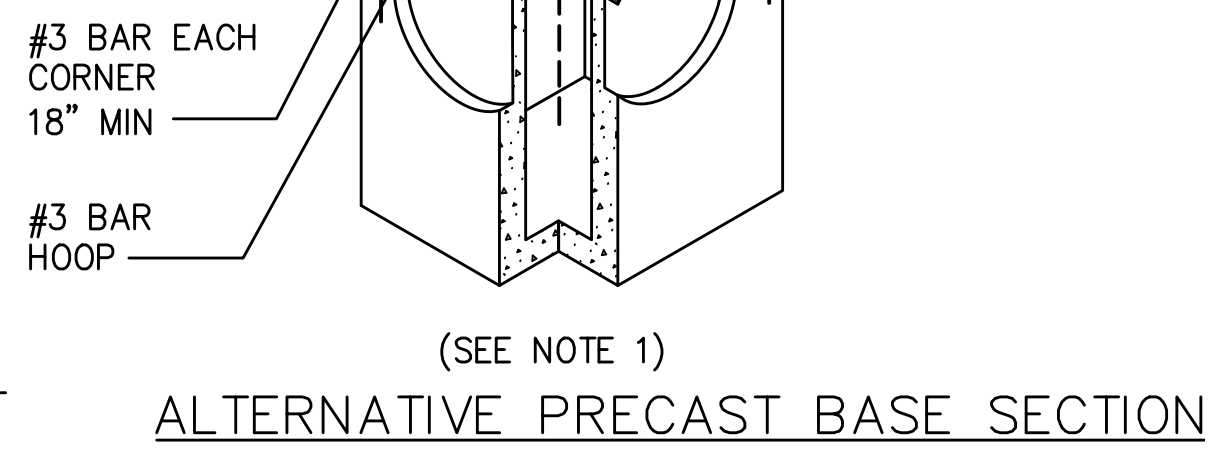
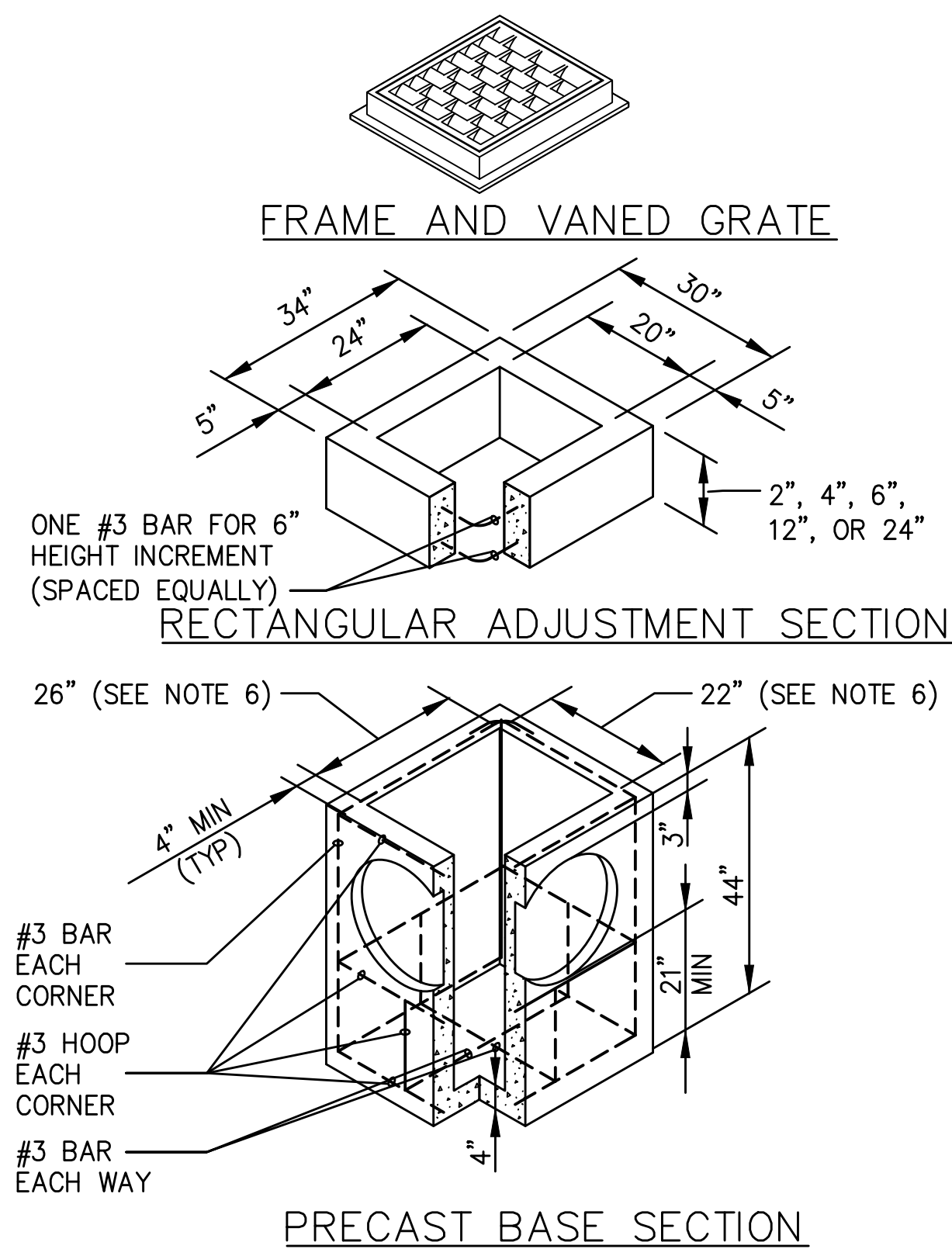
**LUTHER BURBANK PARK**  
**WATERFRONT IMPROVEMENTS**  
 ENLARGED PLAN - STORM DRAIN

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CHECKED: NAW	DATE: 10/07/2022
DRAWING NO.	<b>C-010</b>
SHEET NO.	09 of 56

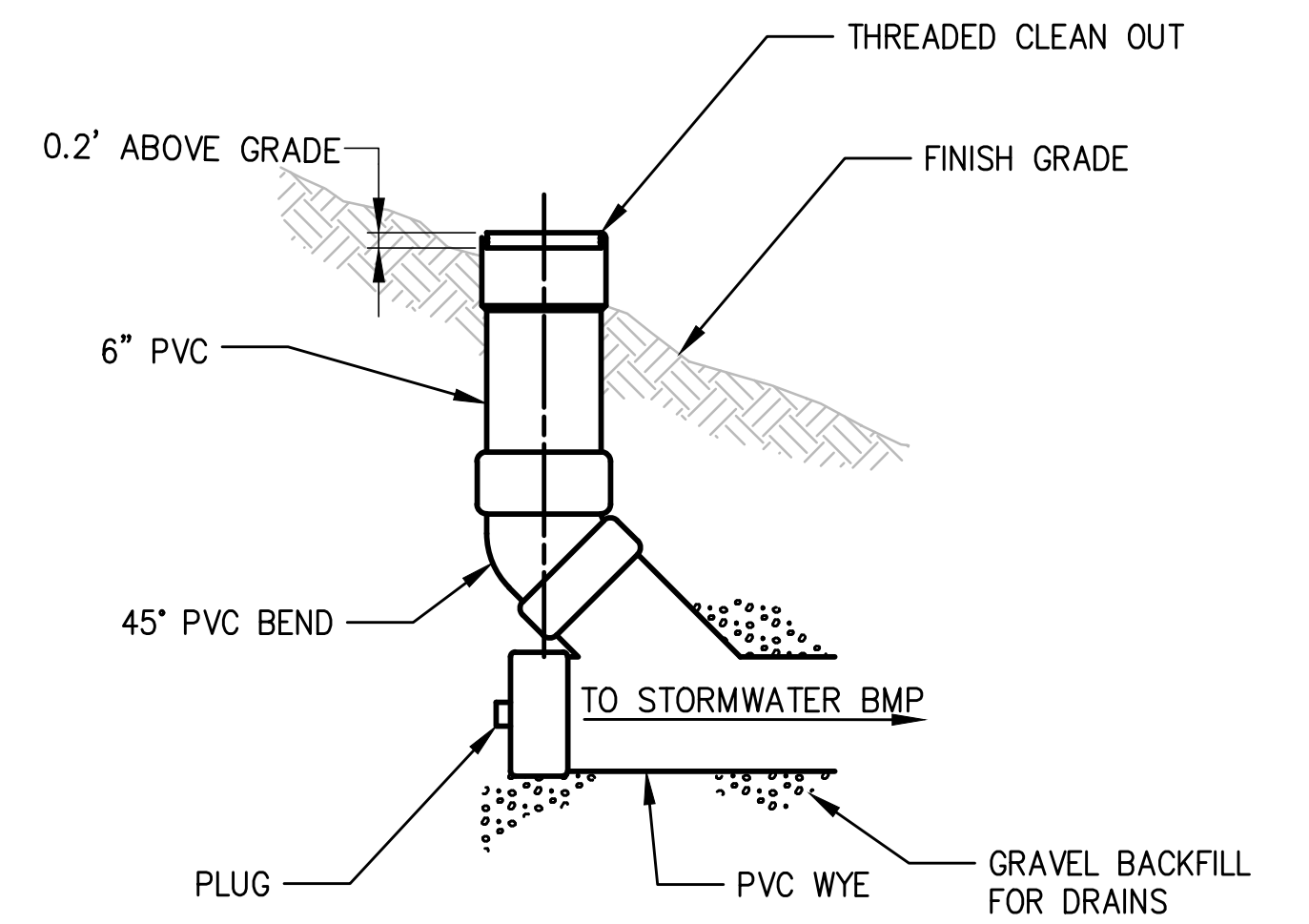
60% SUBMITTAL



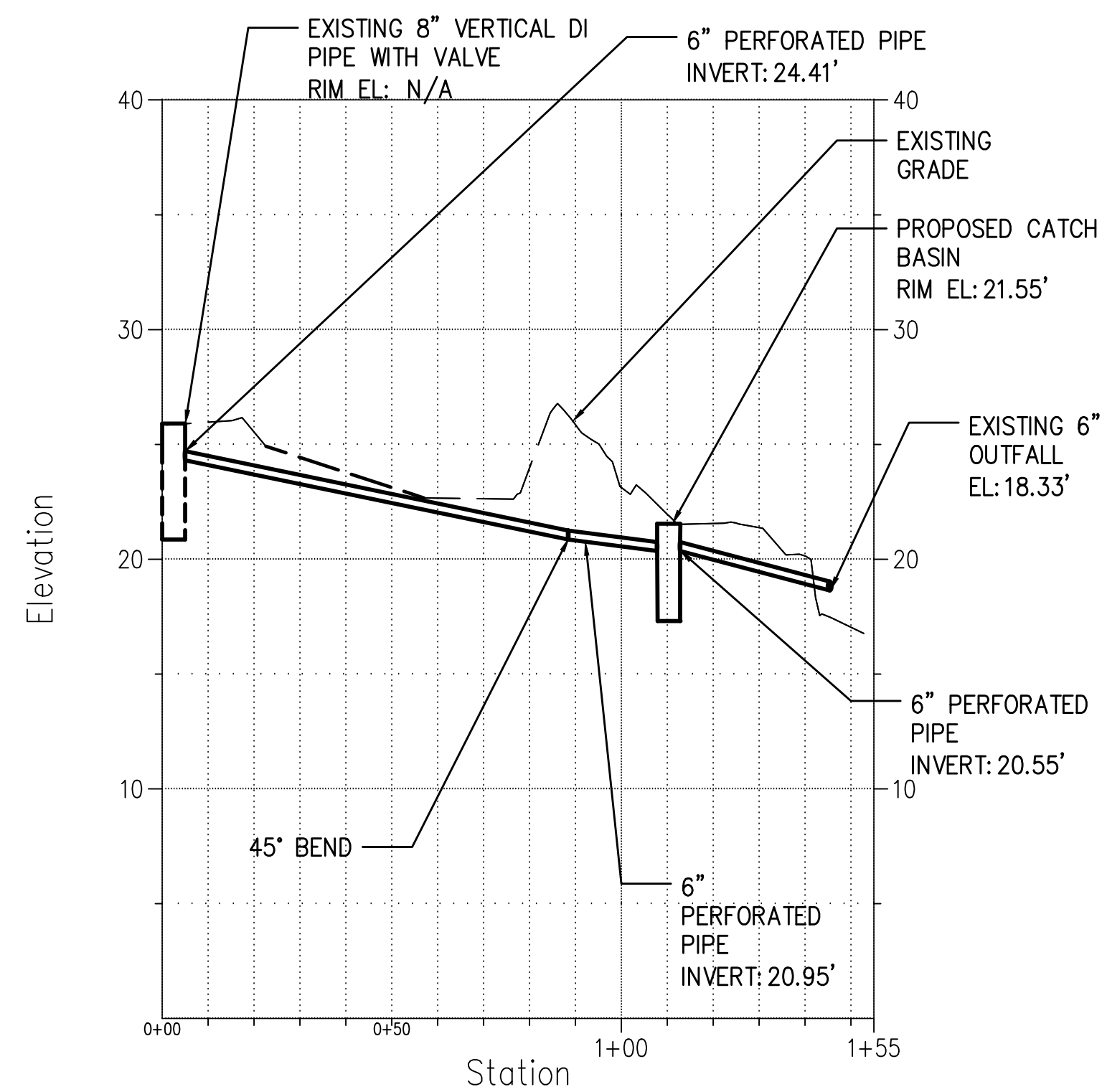
**1**  
C-010 NTS  
**STORM DRAIN WALL AND FOOTING DRAIN SECTION**



PIPE ALLOWANCES	
PIPE MATERIAL	MAXIMUM INSIDE DIAMETER
REINFORCED OR PLAIN CONCRETE	12"
ALL METAL PIPE	15"
CPSSP * (STD.SPEC.9-05.20)	12"
SOLID WALL PVC (STD.SPEC.9-05.12(1))	15"
PROFILE WALL PVC (STD.SPEC.9-05.12(2))	15"

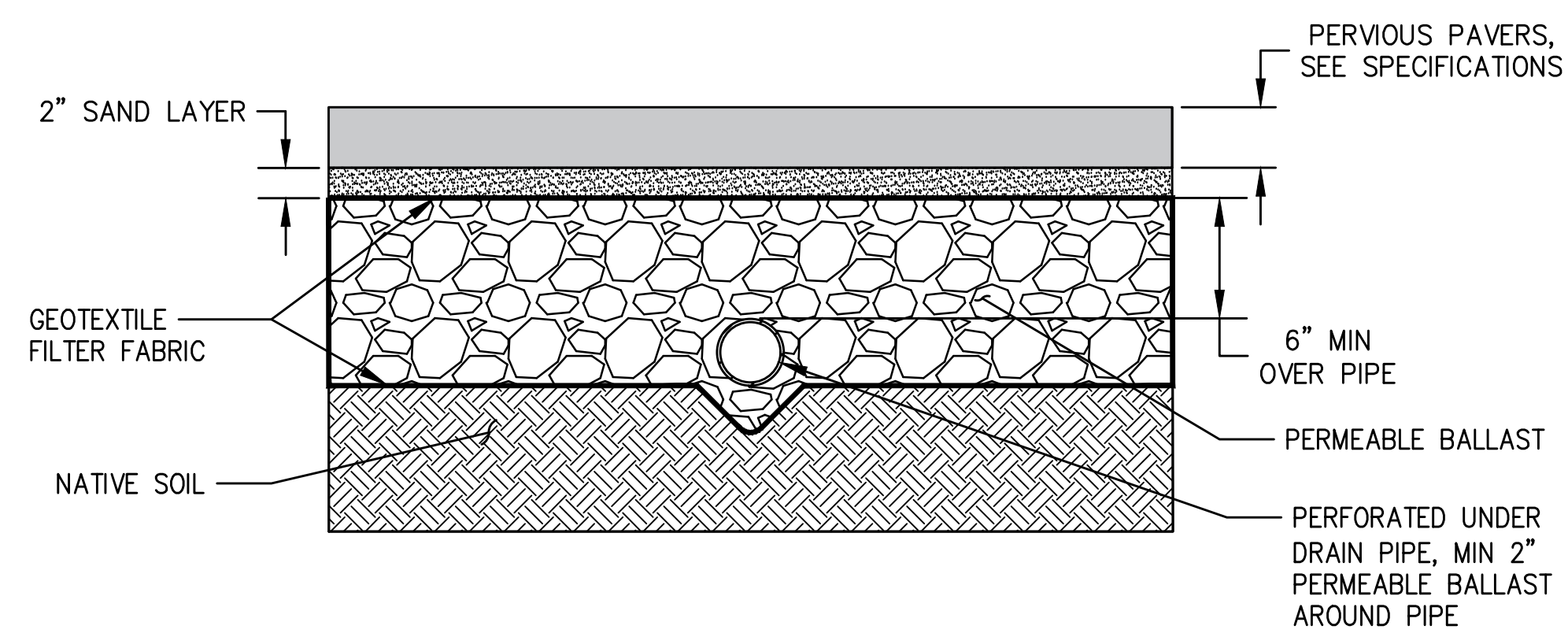


**3**  
C-010 NTS  
**CLEAN OUT DETAIL**

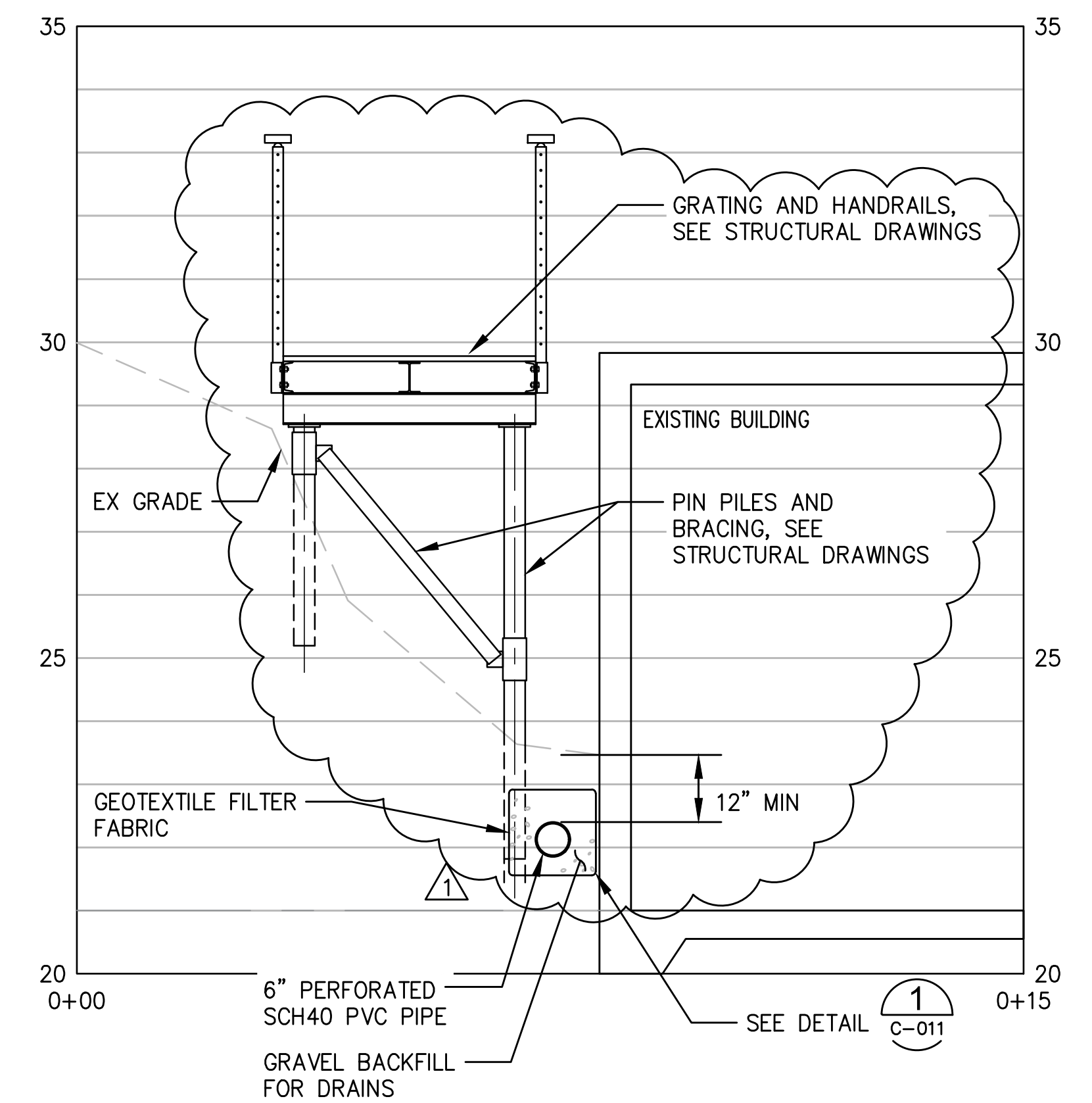


**A**  
C-010 NTS  
**STORM DRAIN PROFILE**

**2**  
C-010 NTS  
**CATCH BASIN TYPE 1 DETAIL**



**4**  
C-010 NTS  
**UNDERDRAIN DETAIL**

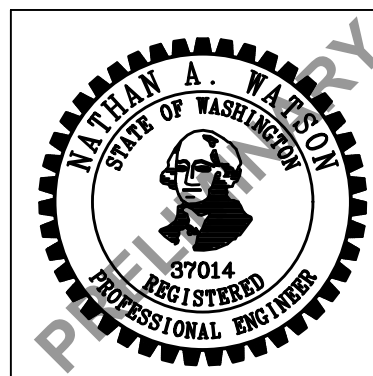


**B**  
C-010 NTS  
**STORM DRAIN AND PATHWAY SECTION**

CAD USER: dgilbert PLOT DATE: Apr 13, 2023-02:24pm  
 PATH: \\kpf\proj\Projects\2020\20000291 Luther Burbank Park\Drawings\Current (DWG2018)\C-011 STORM DRAIN DETAILS.dwg



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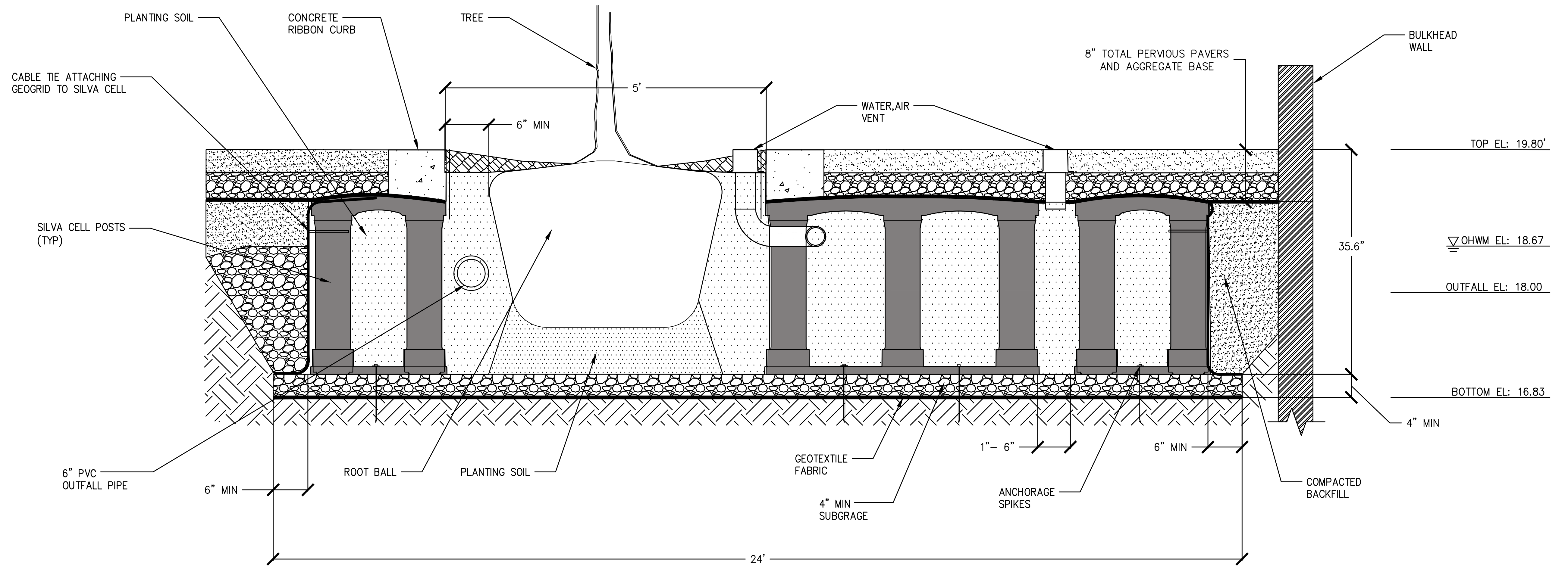


LUTHER BURBANK PARK  
 WATERFRONT IMPROVEMENTS

STORM DRAIN DETAILS

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DESIGN: SS	SCALE: AS SHOWN
CHECKED: NAW	DATE: 10/07/2022
DRAWING NO.	<b>C-011</b>
SHEET NO.	10 OF 56

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**NOTES**

- 1. SILVA CELL MAY CONTAIN X NUMBER OF TREES.

**1 SILVA CELL DETAIL**  
C-010 NTS

CAD USER: dgilbert PLOT DATE: Apr 13, 2023-02:24pm  
 PATH: \\kpf\proj\Projects\2020\20000291 Luther Burbank Park\Drawings\Current (DWG2018)\C-011 STORM DRAIN DETAILS.dwg



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**LUTHER BURBANK PARK**  
**WATERFRONT IMPROVEMENTS**

SILVA CELL DETAIL

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DESIGN: SS	SCALE: AS SHOWN
CHECKED: NAW	DATE: 10/07/2022
DRAWING NO.	<b>C-012</b>
SHEET NO.	11 OF 56

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PROJECT AREA WORK LIMITS

PERVIOUS PAVERS (TYP)

15  
GRADED OVERWATER PLATFORM, SEE STRUCTURAL

CLEANOUT  
RIM EL: ±20.86  
SEE DETAIL

GRAVEL OVER COBBLE (TYP)

5' WIDE BEACH MAT  
@ 4.2% SLOPE

HABITAT GRAVEL (TYP)

EXISTING BOULDER  
TO RETAIN (TYP)

ADA ACCESSIBLE  
GRAVEL PATHWAY  
4.4%

CONCRETE SLAB  
ON GRADE

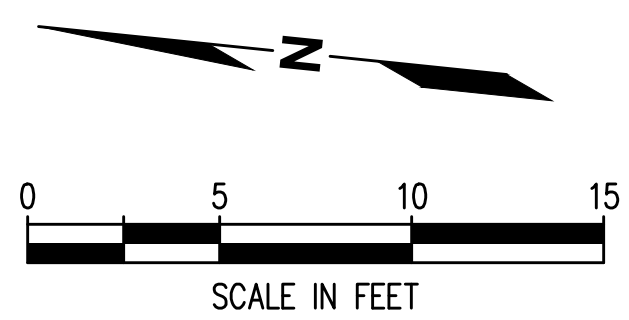
MATCHLINE - SEE SHEET C-021

NATIVE UPLAND  
PLANTING/  
GROUND COVER (TYP)

ADA ACCESSIBLE  
CONCRETE PATHWAY

ADA ACCESSIBLE  
GRAVEL PATHWAY  
4.3%

STANDPIPE MAINTENANCE VAULT  
RIM EL: ±23.0



**KEY PLAN**

**LEGEND**

- PROJECT WORK AREA LIMIT
- ORDINARY HIGH WATER LINE
- PERVIOUS PAVERS
- CONCRETE SLAB ON GRADE
- GRAVEL PATHWAY
- HABITAT GRAVEL
- GRAVEL OVER COBBLE
- ROCK TERRACE
- GRADED OVERWATER PLATFORM
- EXISTING BOULDER TO RETAIN
- EXISTING LARGE WOODY DEBRIS RELOCATED
- NATIVE UPLAND PLANTING/GROUND COVER

CAD USER: dglbert PLOT DATE: Apr 13, 2023-02:24pm  
PATH: \\kpf\p\Projects\2020\20000291 Luther Burbank Park Drawings\Current (DWG2018)\C-020-023 GRADING PLAN (1-4). Updated.dwg

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1A	4/14/2023	ROL	MIFD COMMENT REVISION

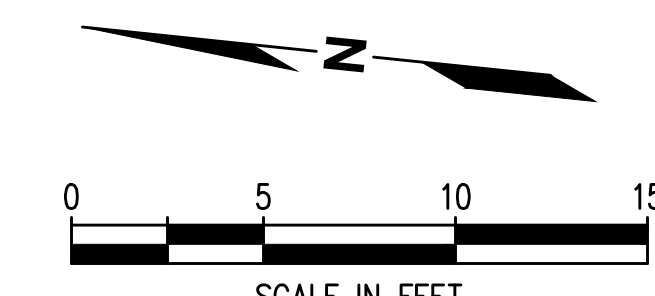
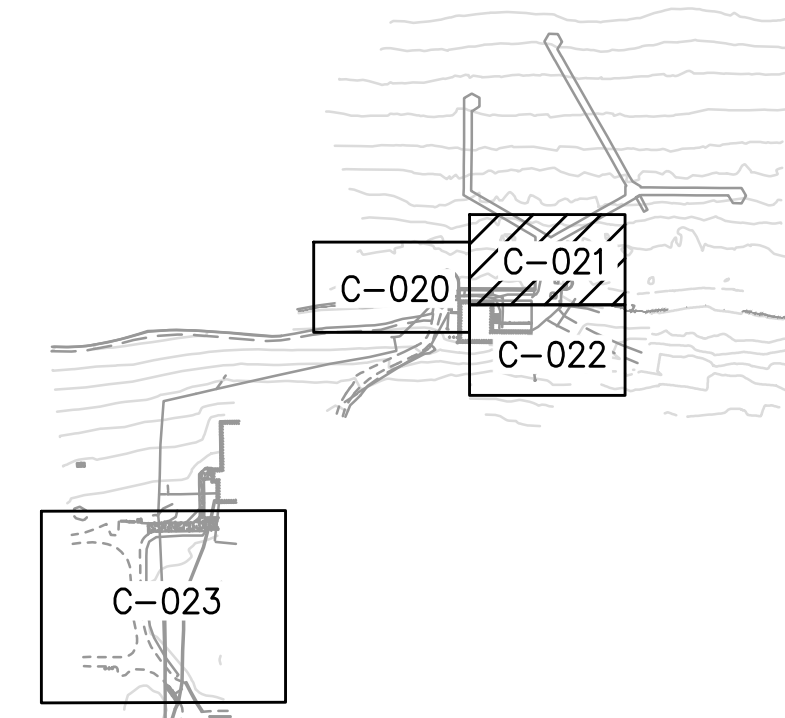
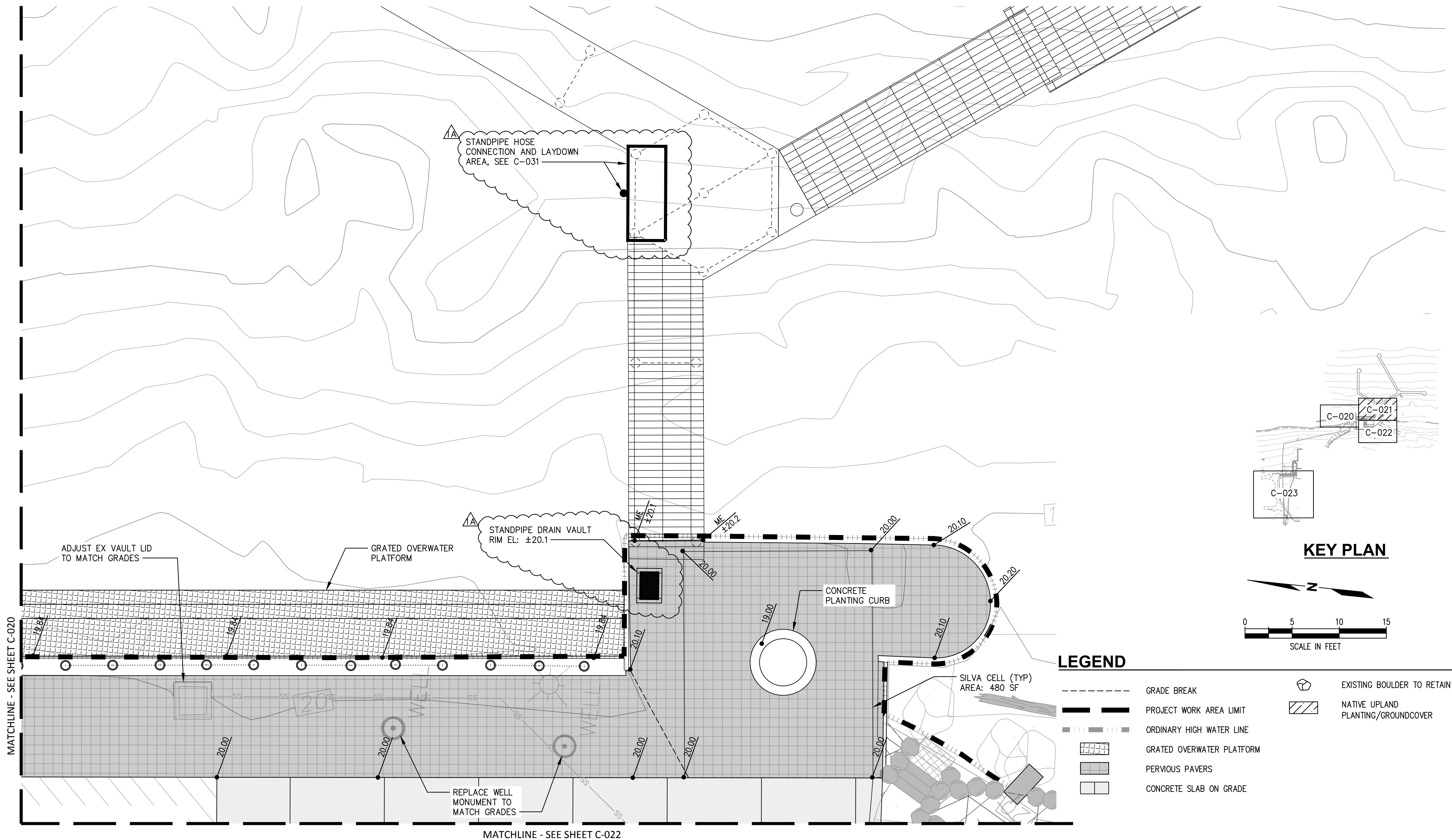
**LUTHER BURBANK PARK  
WATERFRONT IMPROVEMENTS**

GRADING PLAN-1

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DESIGN: SS	SCALE: 1" = 5'
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DRAWING NO.	<b>C-020</b>
SHEET NO.	12 OF 56

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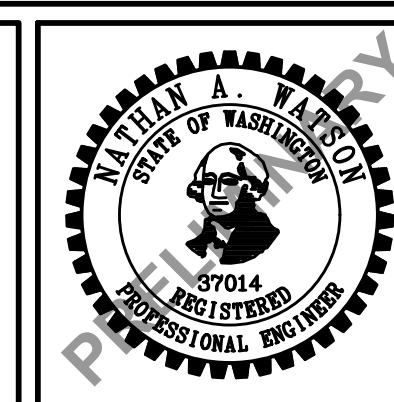
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 PATH: \\kpf\office\Projects\2020\20000291 Luther Burbank Park\Drawings\Current (DWG2018)\C-020-023 GRADING PLAN (1-4). Updated.dwg



**LEGEND**

	GRADE BREAK		EXISTING BOULDER TO RETAIN
	PROJECT WORK AREA LIMIT		NATIVE UPLAND PLANTING/GROUNDCOVER
	ORDINARY HIGH WATER LINE		GRATED OVERWATER PLATFORM
	PERVIOUS PAVERS		CONCRETE SLAB ON GRADE

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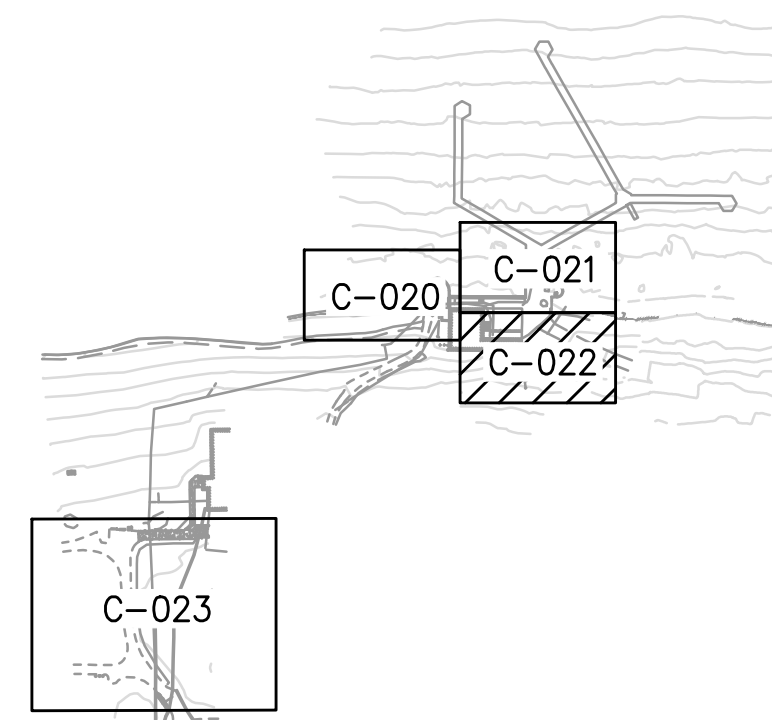
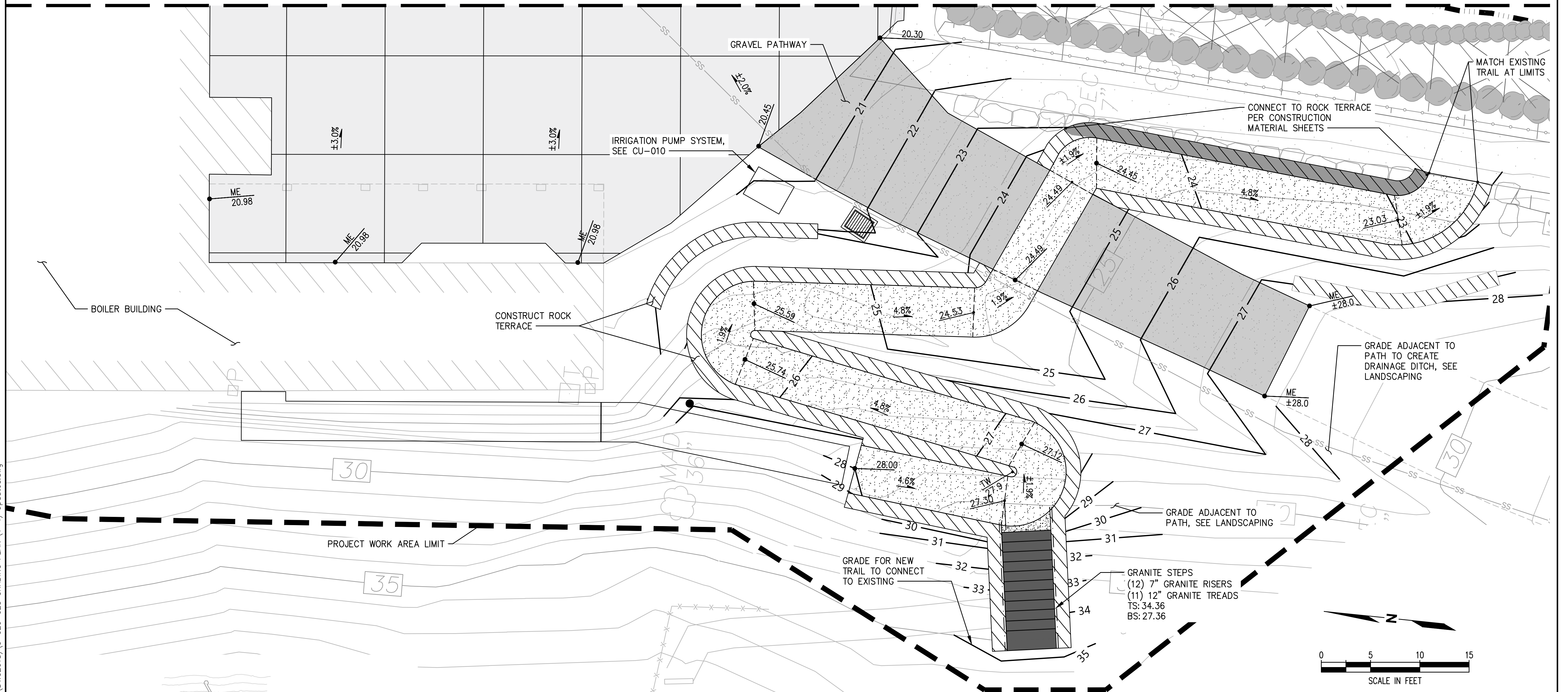
**LUTHER BURBANK PARK**  
 WATERFRONT IMPROVEMENTS

GRADING PLAN-2

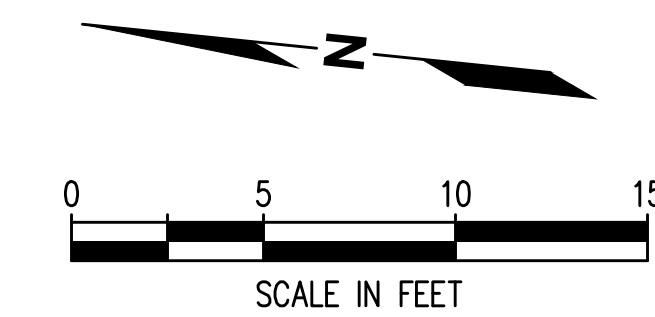
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DESIGN: SS	SCALE: 1" = 5'
CHECKED: NAW	DATE: 10/07/2022
DRAWING NO.	<b>C-021</b>
SHEET NO.	13 of 56

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MATCHLINE - SEE SHEET C-021



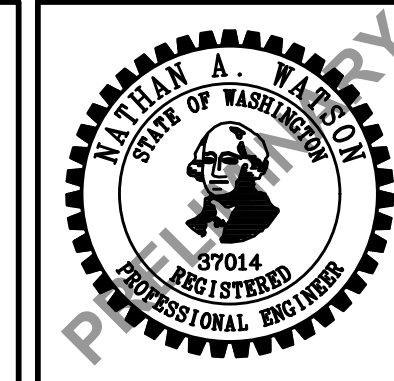
KEY PLAN



LEGEND

- GRADE BREAK
- PROJECT WORK AREA LIMIT
- ORDINARY HIGH WATER LINE
- CONCRETE SLAB ON GRADE
- GRAVEL PATHWAY
- GRATED WATER ACCESS STEPS
- BOULDER
- NATIVE UPLAND PLANTING/GROUNDCOVER
- ROCK TERRACE

CAD USER: dgilbert PLOT DATE: Apr 13, 2023-02:24pm  
 PATH: \\kpf\proj\Projects\2020\20000291 Luther Burbank Park\Drawings\Current (DWG2018)\C-020-023 GRADING PLAN (1-4). Updated.dwg



NO.	DATE	BY	REVISION
1A	4/14/2023	ROL	MIFD COMMENT REVISION



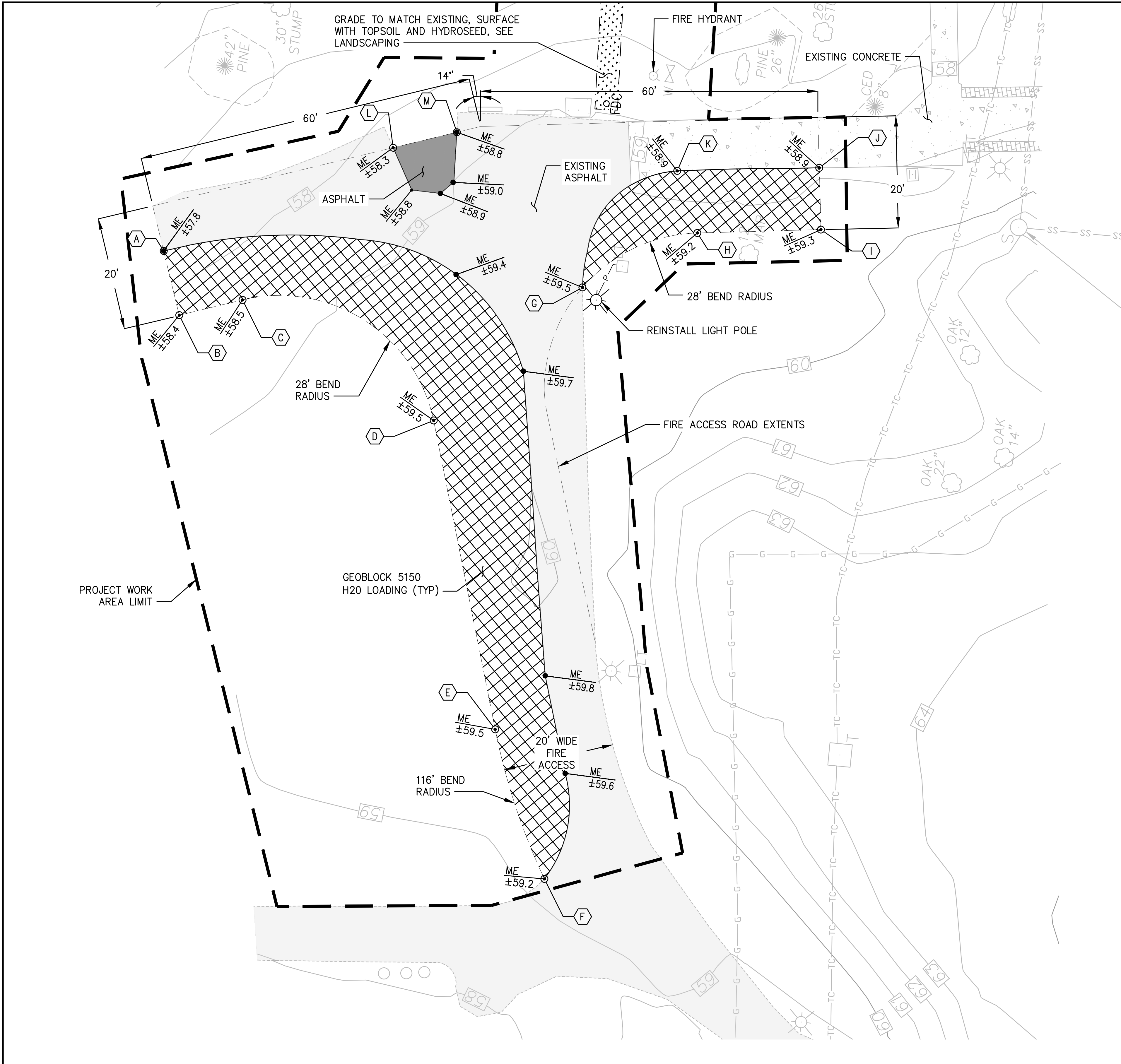
LUTHER BURBANK PARK  
WATERFRONT IMPROVEMENTS

GRADING PLAN-3

DRAWN: AS	PROJECT NO.: 2200248
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CHECKED: NAW	DATE: 10/07/2022
DRAWING NO.	<b>C-022</b>
SHEET NO.	14 of 56

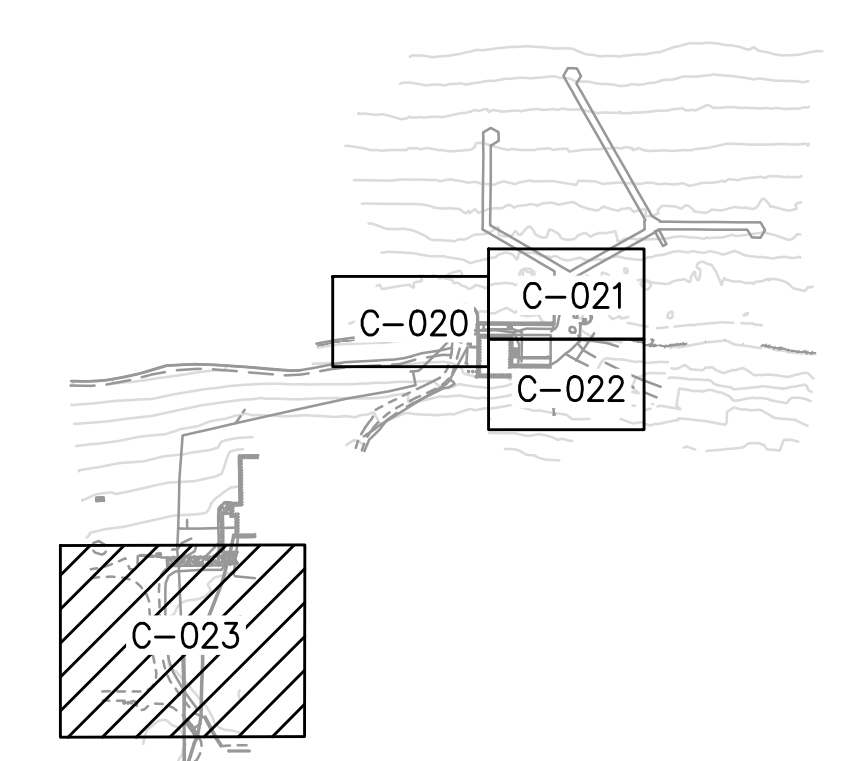
60% SUBMITTAL

CAD USER: dgilbert PLOT DATE: Apr 13, 2023-02:24pm  
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### HORIZONTAL CONTROL

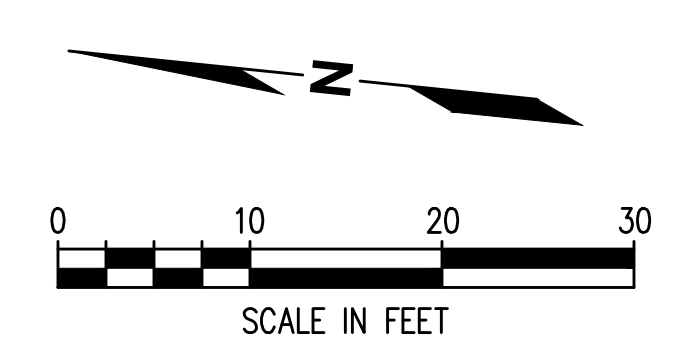
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B			J		
C			K		
D			L		
E			M		
F					
G					
H					



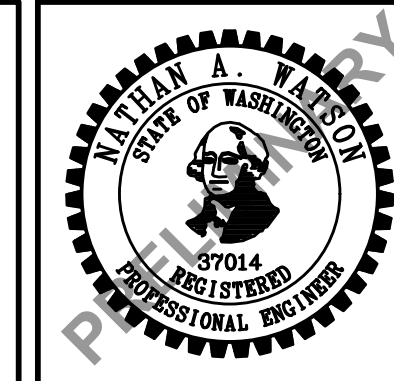
### KEY PLAN

### LEGEND

- GRADE BREAK
- - - FIRE ACCESS
- PROJECT WORK AREA LIMIT
- [Cross-hatch] EXISTING ASPHALT
- [Grid] EXISTING BRICK
- [Stippled] EXISTING CONCRETE
- [Diagonal lines] GEOGRID 5150 H2O LOADING
- [Solid grey] ASPHALT



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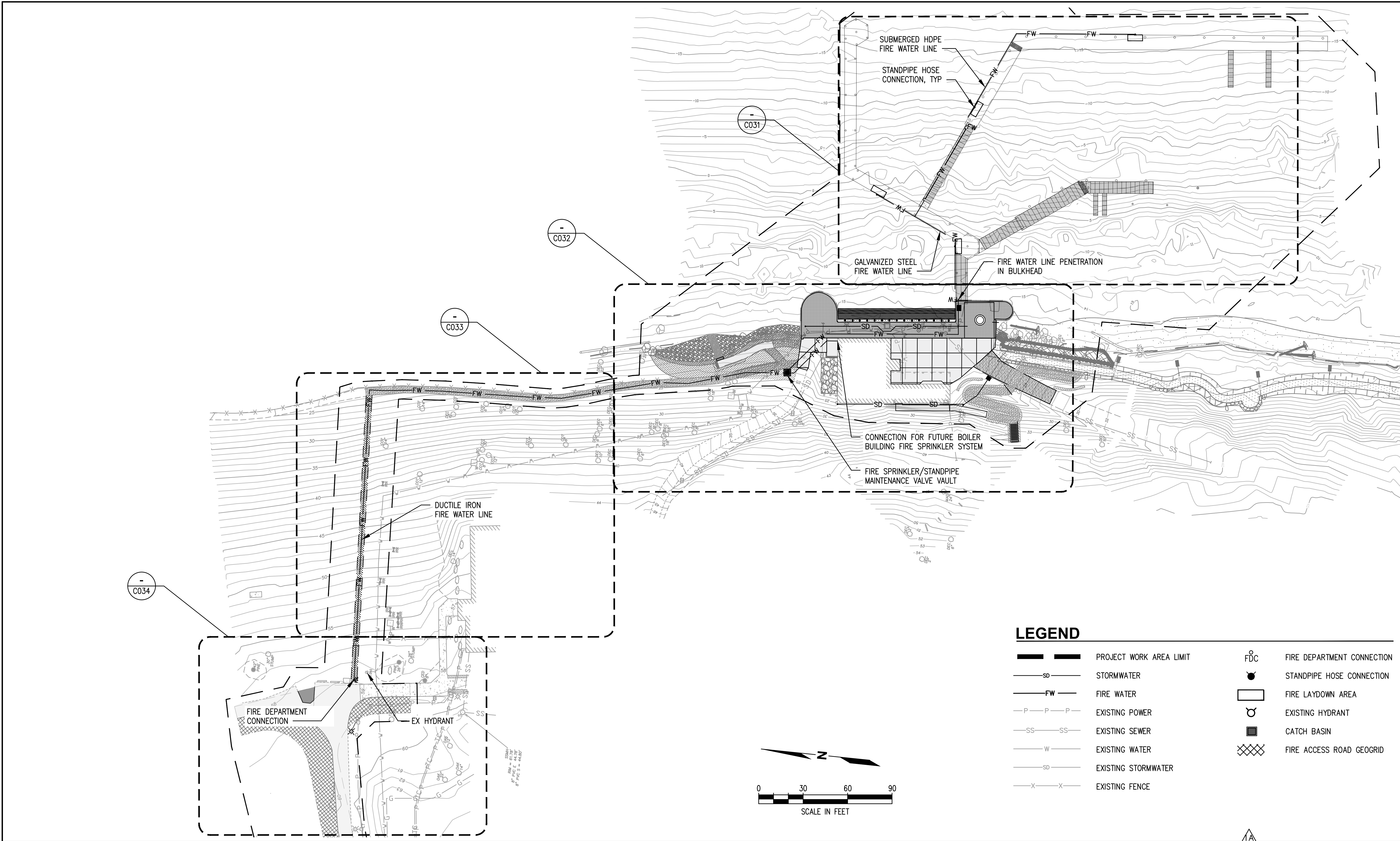
LUTHER BURBANK PARK  
 WATERFRONT IMPROVEMENTS

GRADING PLAN-4

DRAWN: AS	PROJECT NO.: 2200248
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CHECKED: NAW	DATE: 10/07/2022
DRAWING NO.	<b>C-023</b>
SHEET NO.	15 of 56

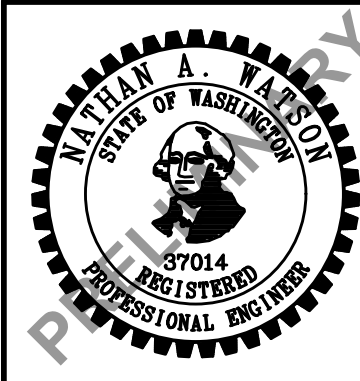
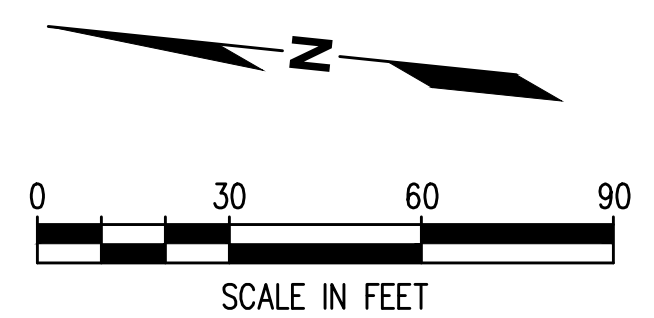
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**LEGEND**

- PROJECT WORK AREA LIMIT
- STORMWATER
- FIRE WATER
- EXISTING POWER
- EXISTING SEWER
- EXISTING WATER
- EXISTING STORMWATER
- EXISTING FENCE
- FIRE DEPARTMENT CONNECTION
- STANDPIPE HOSE CONNECTION
- FIRE LAYDOWN AREA
- EXISTING HYDRANT
- CATCH BASIN
- FIRE ACCESS ROAD GEOGRID



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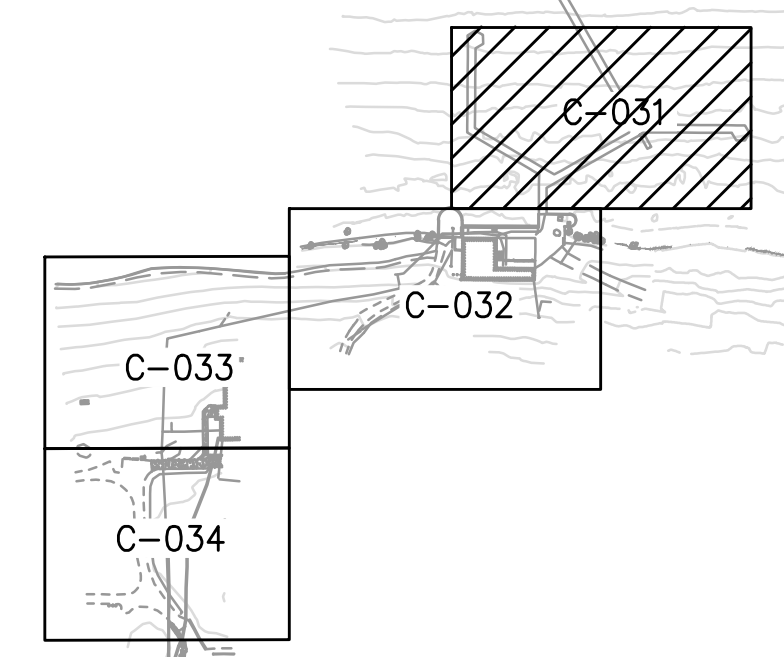
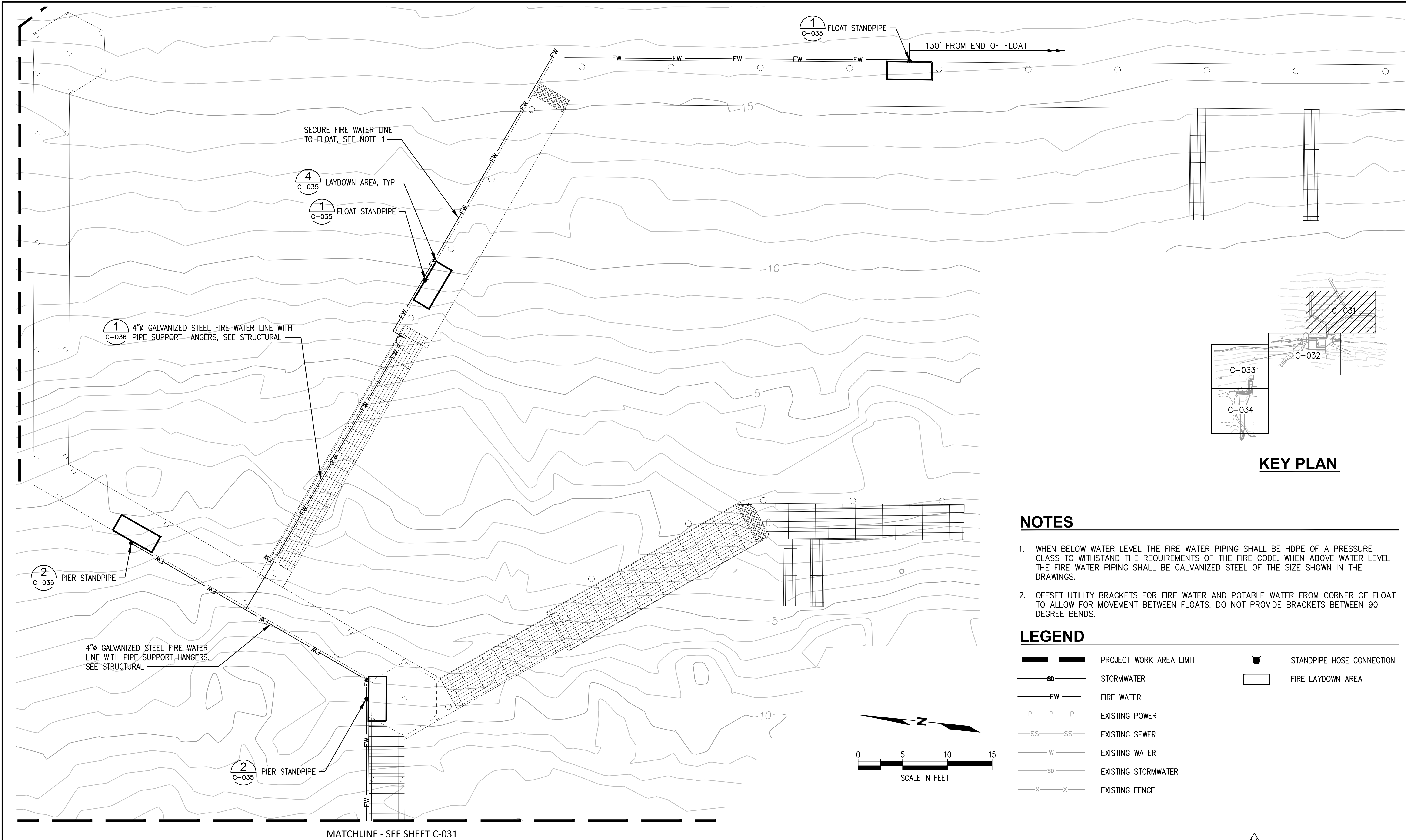
**LUTHER BURBANK PARK**  
 WATERFRONT IMPROVEMENTS  
 UTILITY PLAN - OVERALL

DRAWN: DCG	PROJECT NO.: 2200248
DESIGN: SS	SCALE: AS SHOWN
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DRAWING NO.	<b>C-030</b>
SHEET NO.	17 of 56

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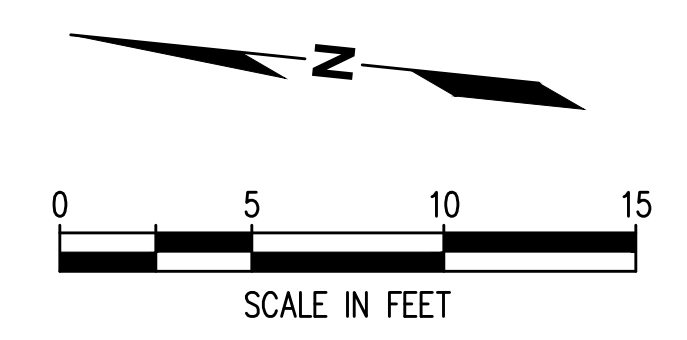
**KEY PLAN**

**NOTES**

1. WHEN BELOW WATER LEVEL THE FIRE WATER PIPING SHALL BE HDPE OF A PRESSURE CLASS TO WITHSTAND THE REQUIREMENTS OF THE FIRE CODE. WHEN ABOVE WATER LEVEL THE FIRE WATER PIPING SHALL BE GALVANIZED STEEL OF THE SIZE SHOWN IN THE DRAWINGS.
2. OFFSET UTILITY BRACKETS FOR FIRE WATER AND POTABLE WATER FROM CORNER OF FLOAT TO ALLOW FOR MOVEMENT BETWEEN FLOATS. DO NOT PROVIDE BRACKETS BETWEEN 90 DEGREE BENDS.

**LEGEND**

	PROJECT WORK AREA LIMIT		STANDPIPE HOSE CONNECTION
	STORMWATER		FIRE LAYDOWN AREA
	FIRE WATER		
	EXISTING POWER		
	EXISTING SEWER		
	EXISTING WATER		
	EXISTING STORMWATER		
	EXISTING FENCE		



MATCHLINE - SEE SHEET C-031



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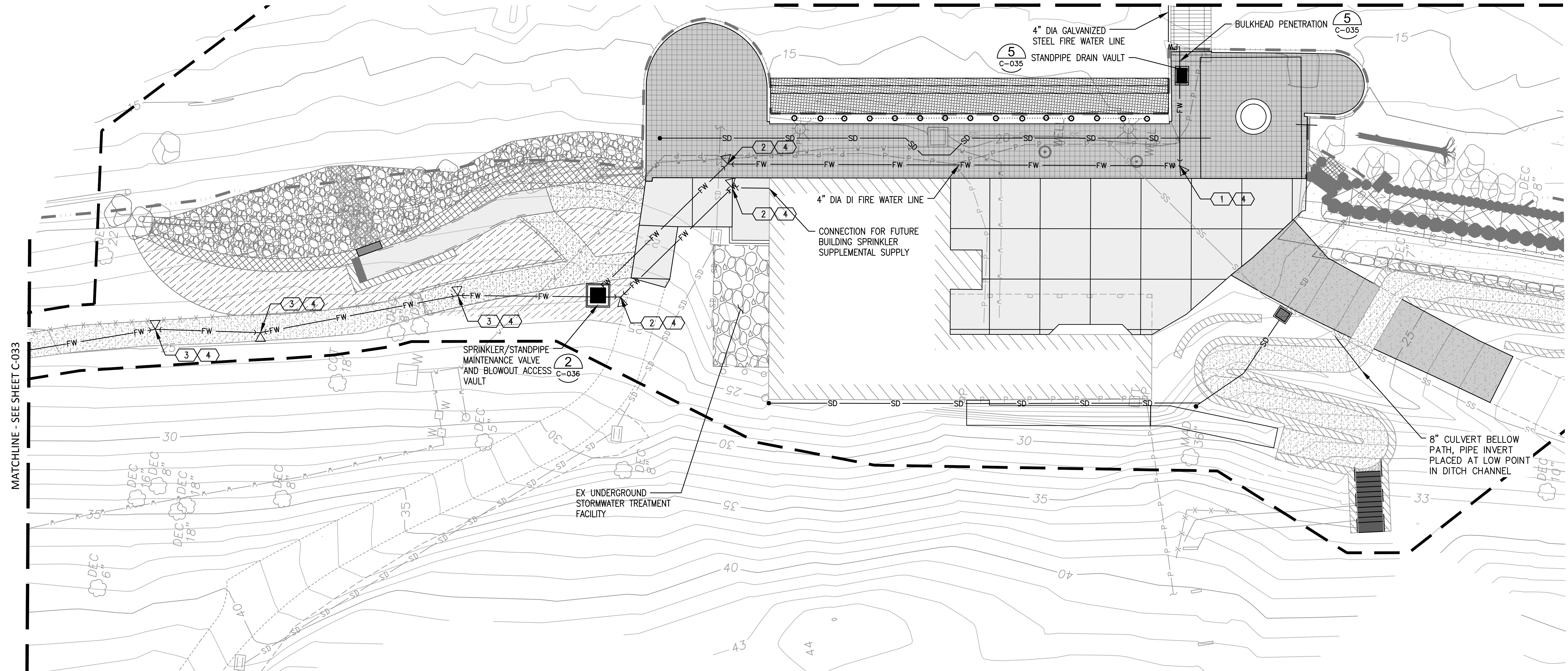


**LUTHER BURBANK PARK**  
 WATERFRONT IMPROVEMENTS  
 UTILITY PLAN - 1

DRAWN: DCG	PROJECT NO.: 2200248
DESIGN: SS	SCALE: AS SHOWN
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DRAWING NO.	<b>C-031</b>
SHEET NO.	18 of 56

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MATCHLINE - SEE SHEET C-031



MATCHLINE - SEE SHEET C-033

**CONSTRUCTION NOTES**

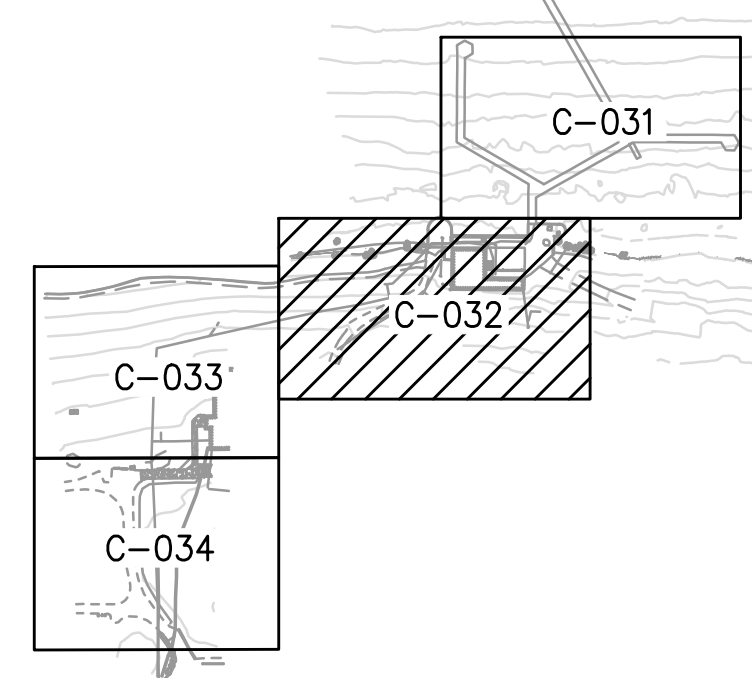
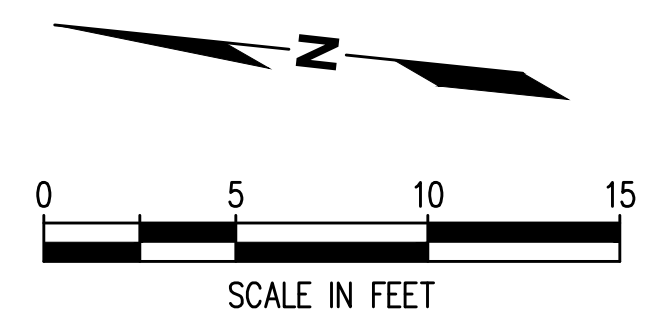
- 1 4"x90" HORIZONTAL BEND
- 2 4"x45" HORIZONTAL BEND
- 3 4"x11.25" HORIZONTAL BEND
- 4 INSTALL THRUST BLOCK

**NOTES**

1. THE EXISTING UTILITY LOCATIONS AND DEPTHS SHOWN ON THE PLANS ARE APPROXIMATE. NO REPRESENTATION IS MADE AS TO THE ACCURACY OR COMPLETENESS OF THE INFORMATION. THE CONTRACTOR SHALL POTHOLE OR OTHERWISE CONFIRM EXISTING CONDITIONS PRIOR TO START OF WORK. IF CONDITIONS DIFFER FROM THOSE SHOWN ON THE PLANS, THE CONTRACTOR SHALL NOTIFY THE ENGINEER AND SHALL NOT BEGIN CONSTRUCTION UNTIL THE CHANGED CONDITIONS HAVE BEEN EVALUATED. THE CONTRACTOR SHALL TAKE PRECAUTIONARY MEASURES TO PROTECT FROM DAMAGE OR DESTRUCTION ALL UTILITIES AS SHOWN AND ALL UTILITIES NOT SHOWN THAT MAY BE ENCOUNTERED DURING CONSTRUCTION DUE TO NO RECORD OF THEIR EXISTENCE.

**LEGEND**

- PROJECT WORK AREA LIMIT
- STORMWATER
- FIRE WATER
- EXISTING POWER
- EXISTING SEWER
- EXISTING WATER
- EXISTING STORMWATER
- EXISTING FENCE
- EXISTING HYDRANT
- CATCH BASIN



**KEY PLAN**

CAD USER: dglbert PLOT DATE: Apr 13, 2023-02:25pm PATH: \\kpf\proj\Projects\2020\20000291 Luther Burbank Park\Drawings\Current (DWG2018)\C-030-034 UTILITY PLAN.dwg



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**LUTHER BURBANK PARK**  
WATERFRONT IMPROVEMENTS  
UTILITY PLAN - 2

DRAWN: DCG	PROJECT NO.: 2200248
DESIGN: SS	SCALE: AS SHOWN
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DRAWING NO.	<b>C-032</b>
SHEET NO.	19 of 56

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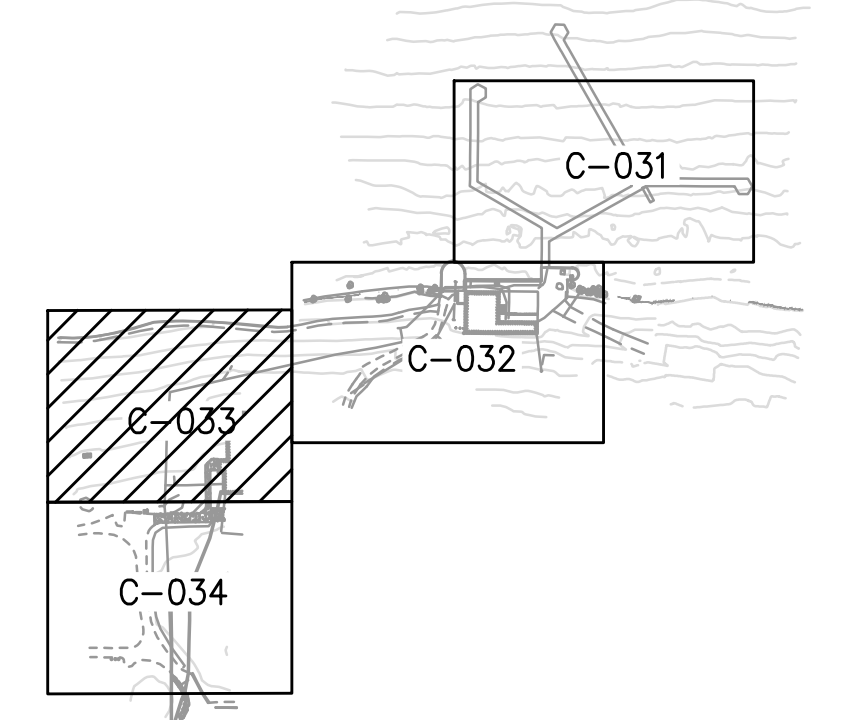
**NOTES**

1. THE EXISTING UTILITY LOCATIONS AND DEPTHS SHOWN ON THE PLANS ARE APPROXIMATE. NO REPRESENTATION IS MADE AS TO THE ACCURACY OR COMPLETENESS OF THE INFORMATION. THE CONTRACTOR SHALL POTHOLE OR OTHERWISE CONFIRM EXISTING CONDITIONS PRIOR TO START OF WORK. IF CONDITIONS DIFFER FROM THOSE SHOWN ON THE PLANS, THE CONTRACTOR SHALL NOTIFY THE ENGINEER AND SHALL NOT BEGIN CONSTRUCTION UNTIL THE CHANGED CONDITIONS HAVE BEEN EVALUATED. THE CONTRACTOR SHALL TAKE PRECAUTIONARY MEASURES TO PROTECT FROM DAMAGE OR DESTRUCTION ALL UTILITIES AS SHOWN AND ALL UTILITIES NOT SHOWN THAT MAY BE ENCOUNTERED DURING CONSTRUCTION DUE TO NO RECORD OF THEIR EXISTENCE.

**CONSTRUCTION NOTES**

- ① 4"x90" HORIZONTAL BEND
- ② 4"x11.25' HORIZONTAL BEND
- ③ INSTALL THRUST BLOCK 1  
C-037

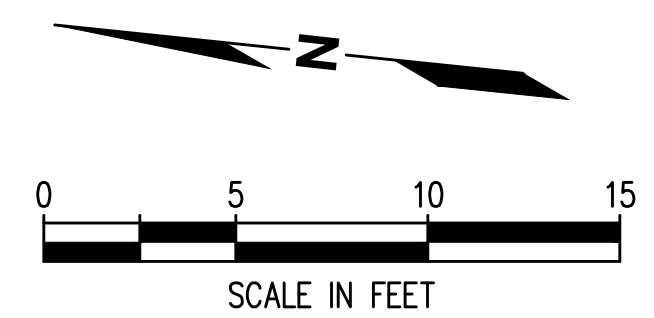
MATCHLINE - SEE SHEET C-032



**KEY PLAN**

**LEGEND**

- — — — — PROJECT WORK AREA LIMIT
- FDC FIRE DEPARTMENT CONNECTION
- SD — — — — — STORMWATER
- FW — — — — — FIRE WATER
- P — P — P — — — — — EXISTING POWER
- SS — SS — — — — — EXISTING SEWER
- W — — — — — EXISTING WATER
- SD — — — — — EXISTING STORMWATER
- X — X — — — — — EXISTING FENCE
- — — — — STANDPIPE HOSE CONNECTION
- — — — — FIRE LAYDOWN AREA
- — — — — EXISTING HYDRANT
- — — — — CATCH BASIN



MATCHLINE - SEE SHEET C-034



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**LUTHER BURBANK PARK**  
**WATERFRONT IMPROVEMENTS**  
 UTILITY PLAN - 3

DRAWN: DCG	PROJECT NO.: 2200248
DESIGN: SS	SCALE: AS SHOWN
CHECKED: NAW	DATE: 10/07/2022
DRAWING NO.	<b>C-033</b>
SHEET NO.	20 of 56

60% SUBMITTAL

CAD USER: dgilbert PLOT DATE: Apr 13, 2023-02:25pm  
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**LUTHER BURBANK PARK**  
**WATERFRONT IMPROVEMENTS**  
 UTILITY PLAN - 4

DRAWN: DCG	PROJECT NO.: 2200248
DESIGN: SS	SCALE: AS SHOWN
CHECKED: NAW	DATE: 10/07/2022
DRAWING NO.	<b>C-034</b>
SHEET NO.	21 OF 56

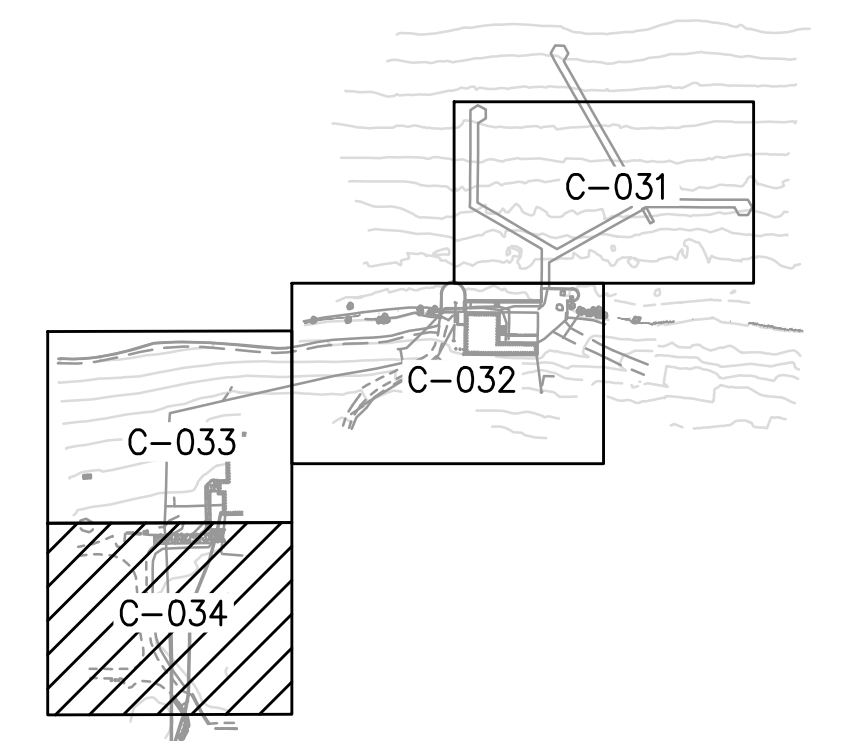


**NOTES**

- THE EXISTING UTILITY LOCATIONS AND DEPTHS SHOWN ON THE PLANS ARE APPROXIMATE. NO REPRESENTATION IS MADE AS TO THE ACCURACY OR COMPLETENESS OF THE INFORMATION. THE CONTRACTOR SHALL POthOLE OR OTHERWISE CONFIRM EXISTING CONDITIONS PRIOR TO START OF WORK. IF CONDITIONS DIFFER FROM THOSE SHOWN ON THE PLANS, THE CONTRACTOR SHALL NOTIFY THE ENGINEER AND SHALL NOT BEGIN CONSTRUCTION UNTIL THE CHANGED CONDITIONS HAVE BEEN EVALUATED. THE CONTRACTOR SHALL TAKE PRECAUTIONARY MEASURES TO PROTECT FROM DAMAGE OR DESTRUCTION ALL UTILITIES AS SHOWN AND ALL UTILITIES NOT SHOWN THAT MAY BE ENCOUNTERED DURING CONSTRUCTION DUE TO NO RECORD OF THEIR EXISTENCE.

**CONSTRUCTION NOTES**

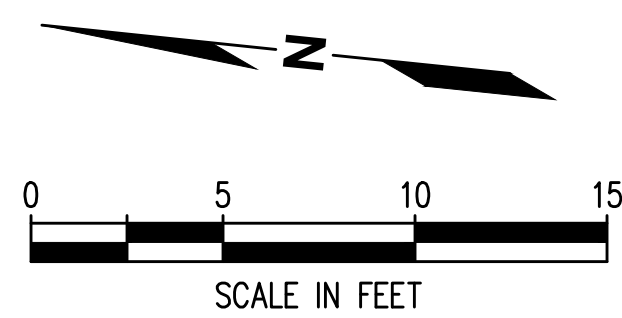
- 1 FDC ASSEMBLY 3  
C-035
- 2 REINSTALL LIGHT POLE, FOUNDATION PER STRUCTURAL



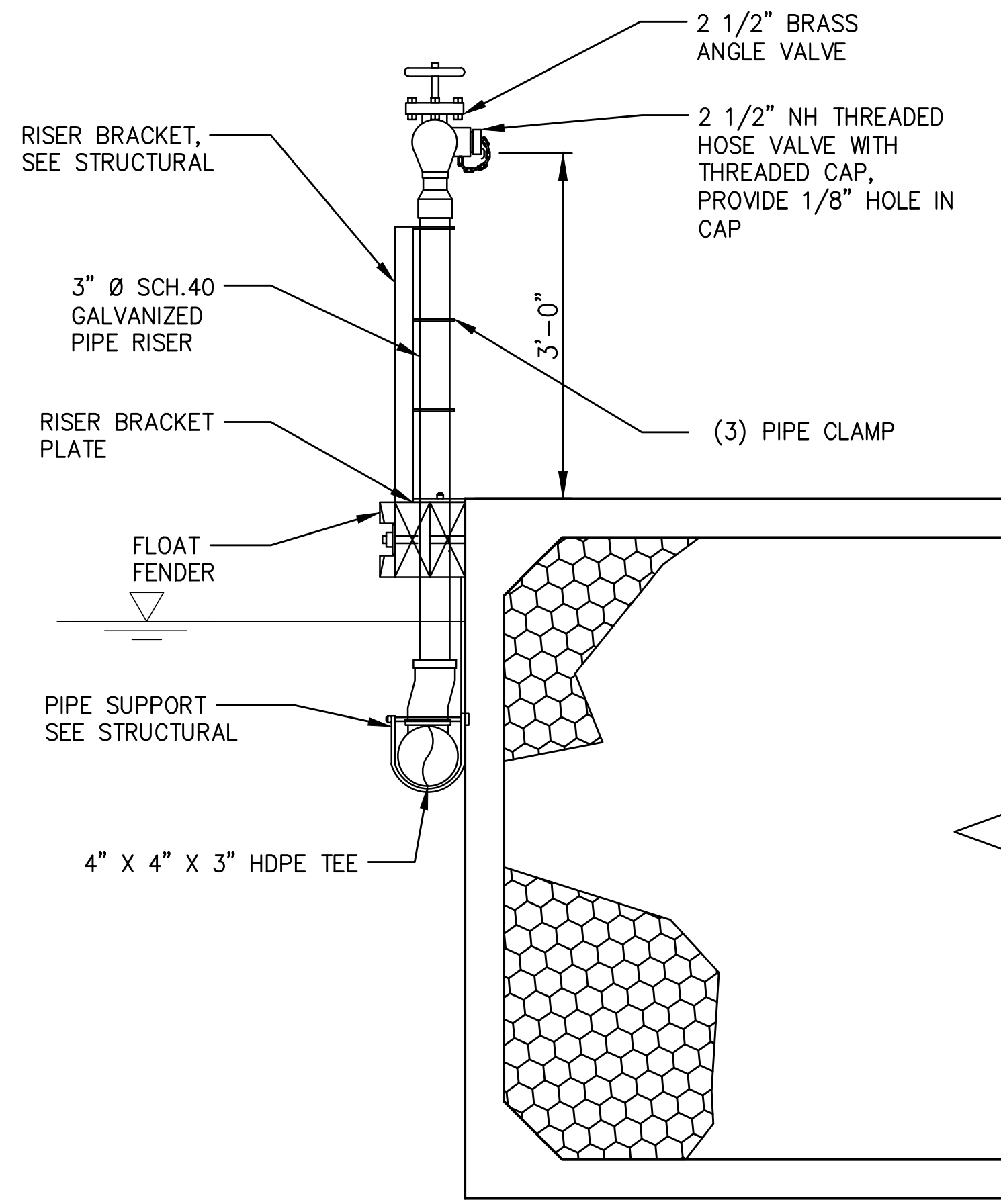
**KEY PLAN**

**LEGEND**

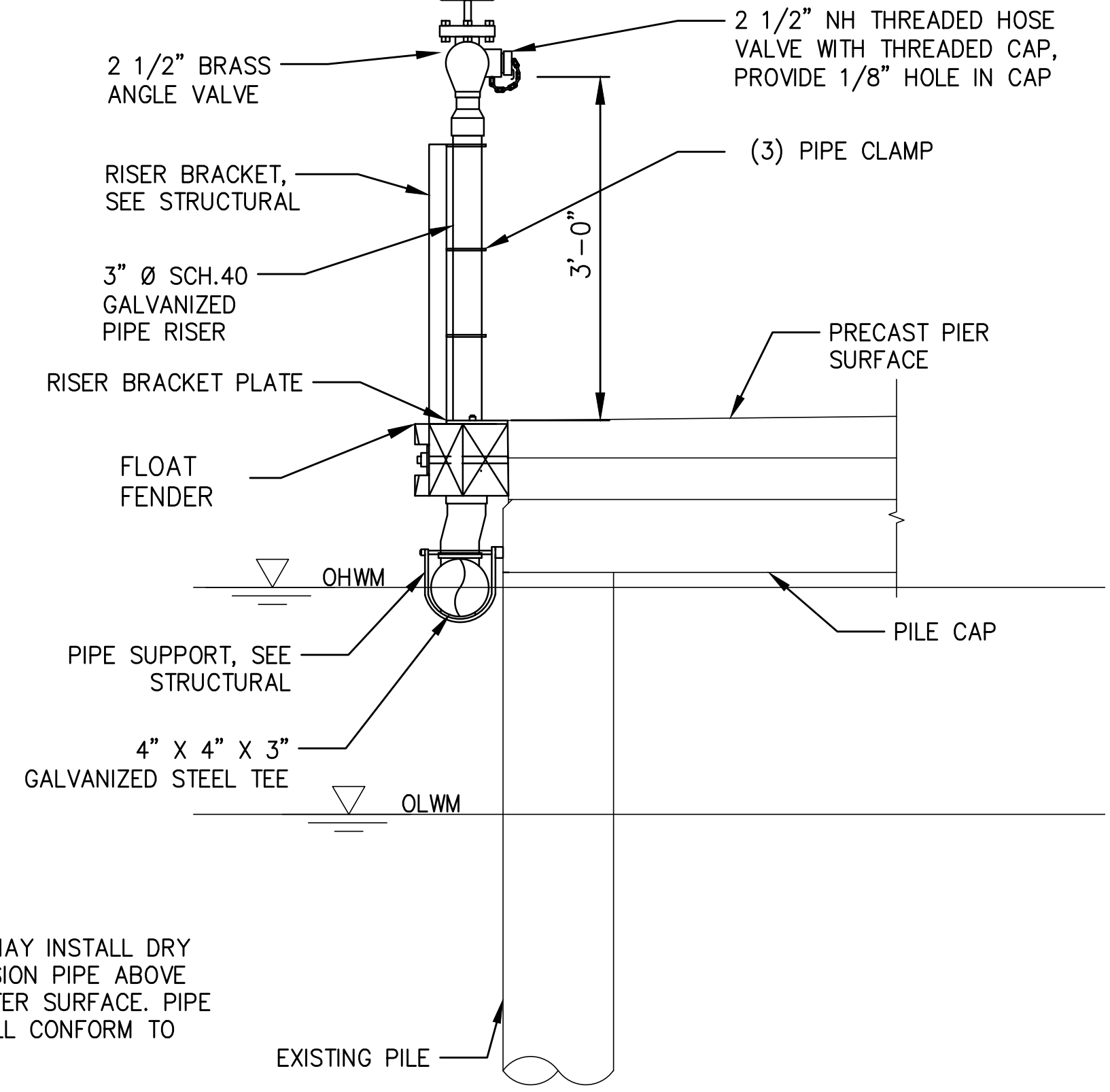
- PROJECT WORK AREA LIMIT
- STORMWATER
- FIRE WATER
- EXISTING POWER
- EXISTING SEWER
- EXISTING WATER
- EXISTING STORMWATER
- EXISTING FENCE
- FIRE DEPARTMENT CONNECTION
- STANDPIPE HOSE CONNECTION
- FIRE LAYDOWN AREA
- EXISTING HYDRANT
- CATCH BASIN
- FIRE ACCESS ROAD GEOGRID
- FIRE ACCESS ROAD ASPHALT PAVING
- EXISTING ASPHALT PATH



60% SUBMITTAL

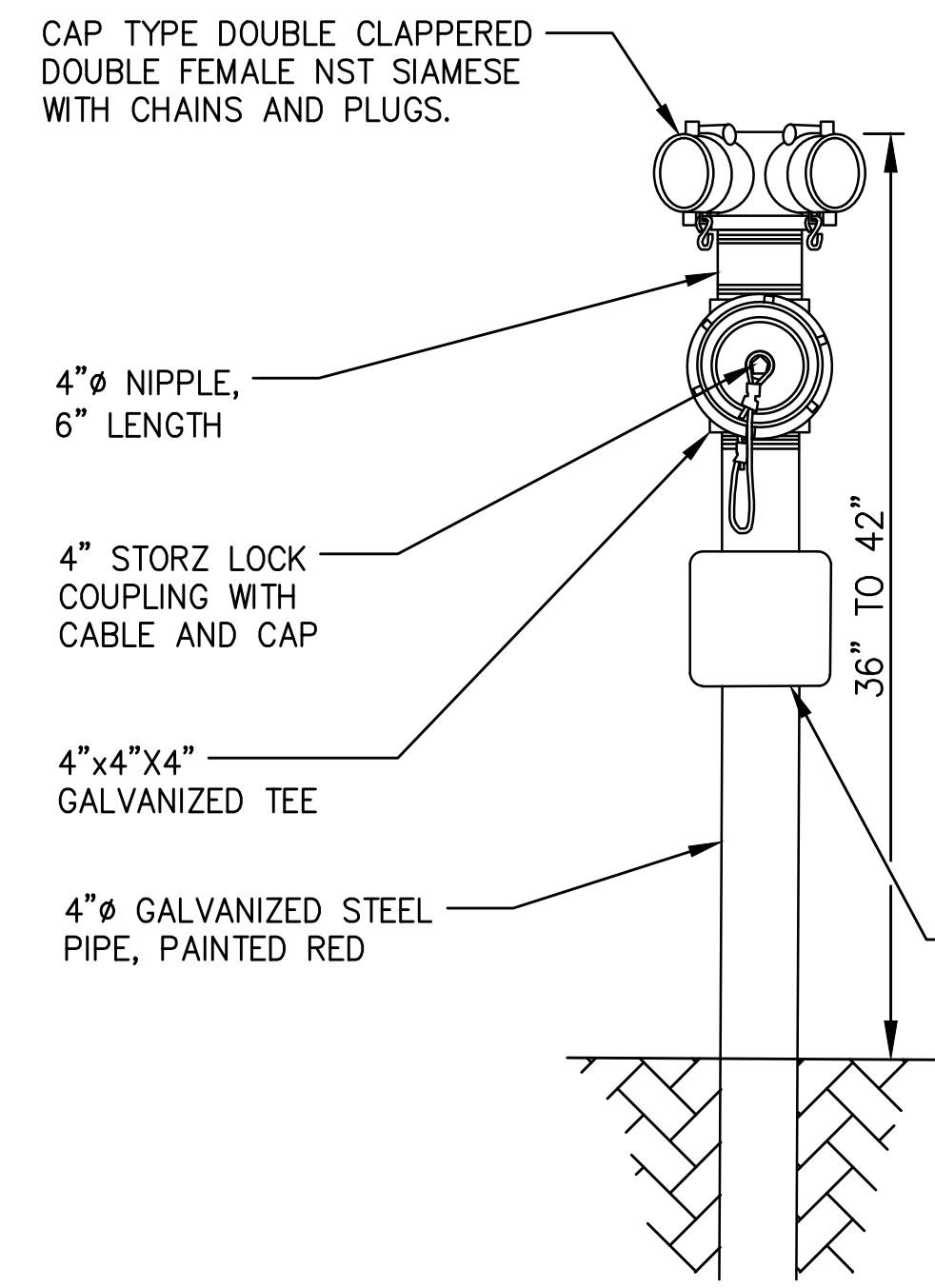


**1 STANDPIPE SECTION - CONCRETE FLOAT**  
C-031 NTS



**2 STANDPIPE SECTION**  
C-031 NTS

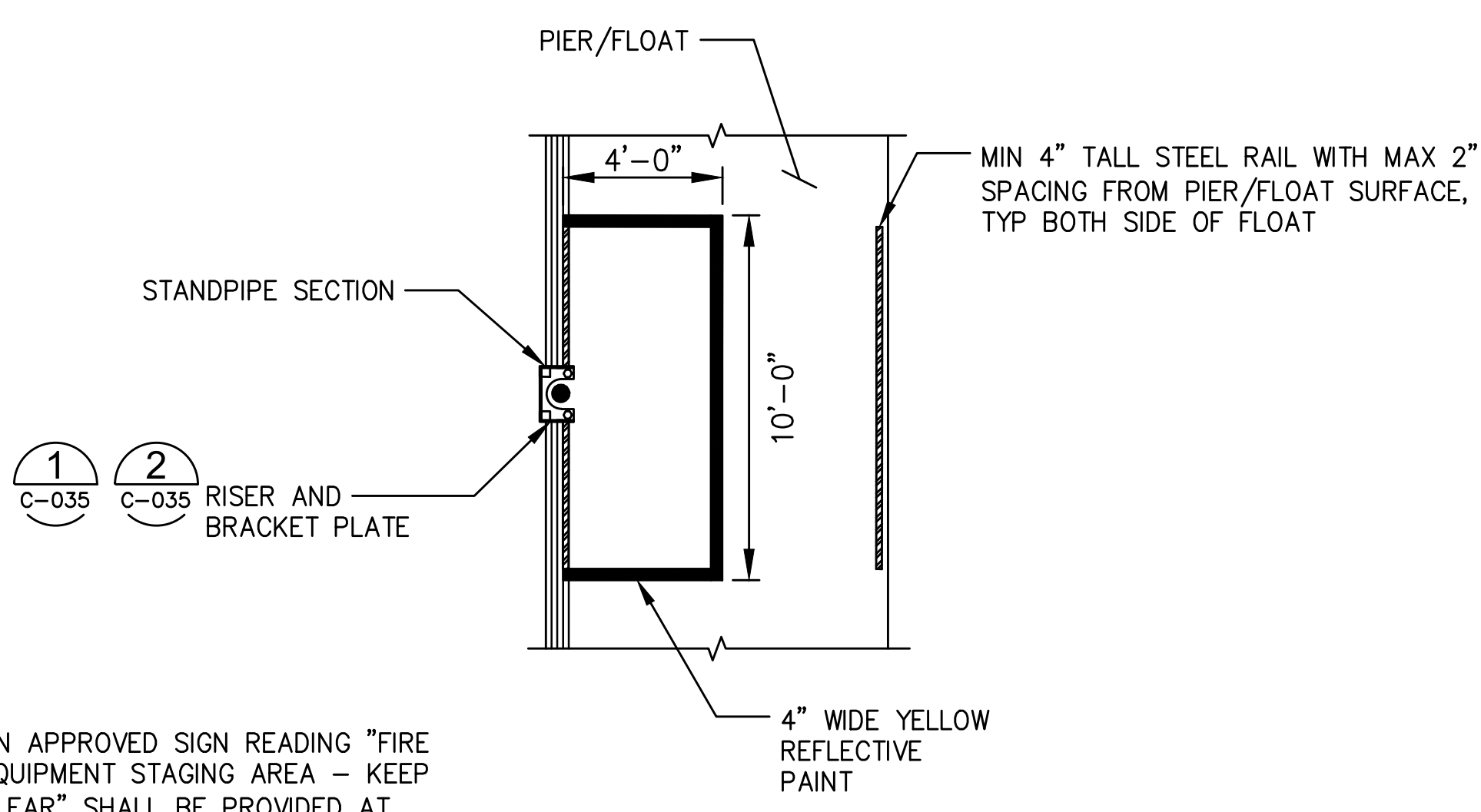
**NOTES**  
1. CONTRACTOR MAY INSTALL DRY FIRE SUPPRESSION PIPE ABOVE OR BELOW WATER SURFACE. PIPE MATERIAL SHALL CONFORM TO NFPA 14.



**3 FIRE DEPARTMENT CONNECTION**  
C-034 NTS

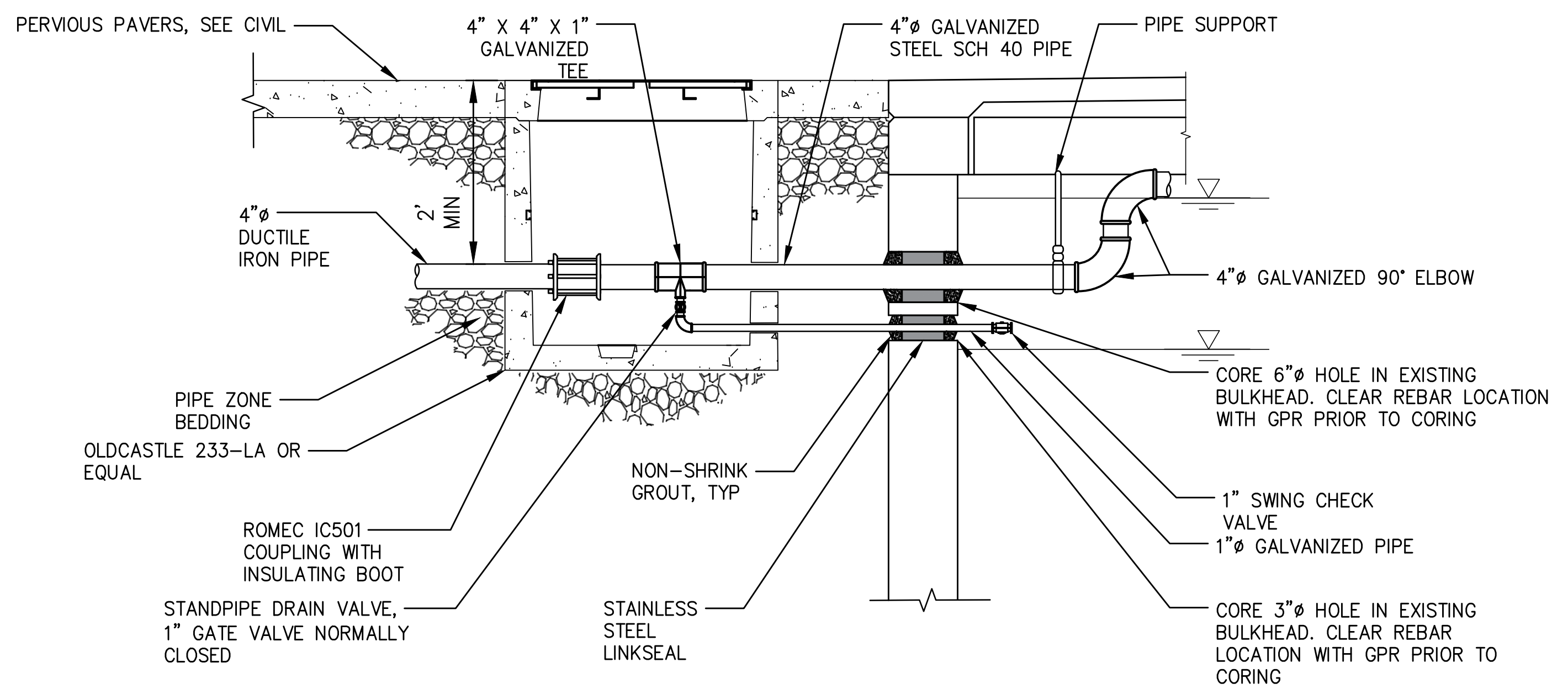
**FDC SIGN NOTES:**  
1. ALL MATERIALS SHALL BE NFPA COMPLIANT  
2. SIGN AND LETTER COLORS  
a. SIGN SHALL BE WHITE LETTERS ON A RED BACKGROUND  
3. SIZE AND MATERIAL  
a. 2" BLACK LETTERS STENCIL PAINTED ON METAL  
4. SIGN TERMINOLOGY  
a. "SPRINKLER-STANDPIPE, 200 PSI" WITH JOB ADDRESS  
5. ADDRESS NUMERALS SHALL BE ABOVE THE SYSTEM TYPE

ADDRESS  
FOR SIGN COLOR, SIZE, MATERIAL, WORDING AND LETTER SIZE SEE NOTES.  
SYSTEM TYPE  
FDC SIGN



**4 FIRE STAGING AREA**  
C-031 NTS

**NOTES**  
1. AN APPROVED SIGN READING "FIRE EQUIPMENT STAGING AREA - KEEP CLEAR" SHALL BE PROVIDED AT EACH STAGING AREA.

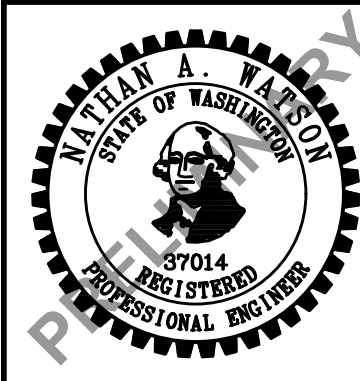


**5 BULKHEAD PENETRATION DETAIL**  
C-032 NTS

CAD USER: dgilbert PLOT DATE: Apr 13, 2023-02: 25pm  
PATH: \\kpf\proj\Projects\2020\20000291 Luther Burbank Park\Drawings\Current (DWG2018)\C-035-037 UTILITY DETAILS.dwg



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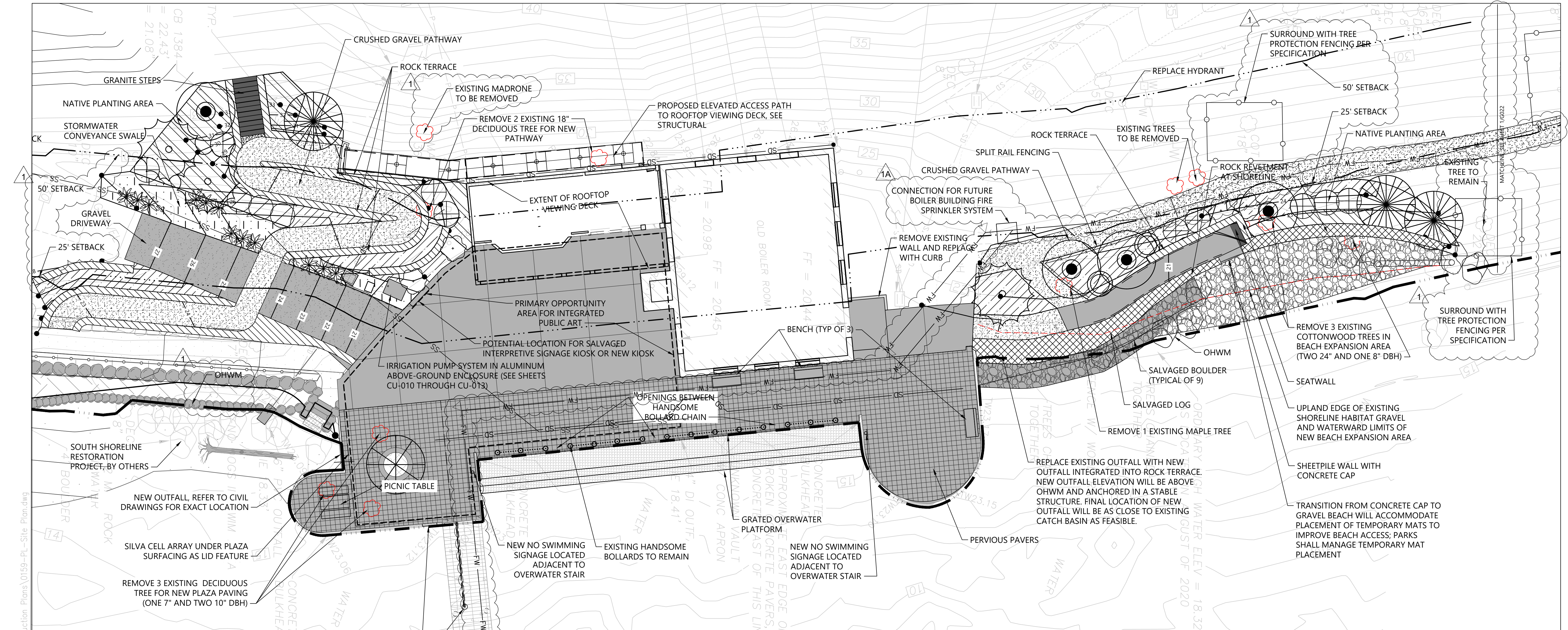
NO.	DATE	BY	REVISION
1A	4/14/2023	ROL	MIFD COMMENT REVISION



LUTHER BURBANK PARK  
WATERFRONT IMPROVEMENTS  
UTILITY DETAILS - 1

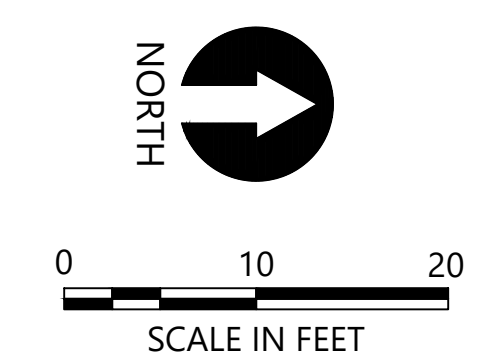
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DESIGN: SS	SCALE: AS SHOWN
CHECKED: NAW	DATE: 10/07/2022
DRAWING NO.	<b>C-035</b>
SHEET NO.	22 OF 56

60% SUBMITTAL



**LEGEND:**

EXISTING CONTOUR	EXISTING BOLLARD AND CHAIN TO REMAIN	SALVAGED LOG
EXISTING TREE TO RETAIN	HABITAT GRAVEL	SALVAGED BOULDER
EXISTING TREE TO REMOVE	GRAVEL OVER COBBLE	PROPOSED TREE
EXISTING UPLAND EDGE OF SHORELINE HABITAT GRAVEL	ROCK TERRACE	PROPOSED SHRUBS/GROUNDCOVERS
EXISTING ORDINARY HIGH WATER LINE	ROCK REVETMENT	RIPARIAN SHRUBS
EXISTING BOULDER TO RETAIN	FRP GRATING	NATIVE UPLAND PLANTING/GROUNDCOVER
PROPOSED CONTOUR	HANDRAIL	STORMWATER CONVEYANCE PLANTING
PERVIOUS PAVERS	SPLIT RAIL FENCING	
CONCRETE SLAB ON GRADE WITH SAWCUT JOINT SCORING	PICNIC TABLE	
CRUSHED GRAVEL PATHWAY	BENCH	



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

CAD USER: randersens PLOT DATE: Apr 13, 2023-01:11pm  
 PATH: K:\Projects\0159-KPFF Consulting Engineers\Mercer Island\Burbank Dock Repair\Construction Plans\0159-PL-Site Plan.dwg

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1A	4/14/2023	RA	MIFD COMMENT REVISION



**LUTHER BURBANK PARK WATERFRONT IMPROVEMENTS**

COMPOSITE SITE PLAN - 1

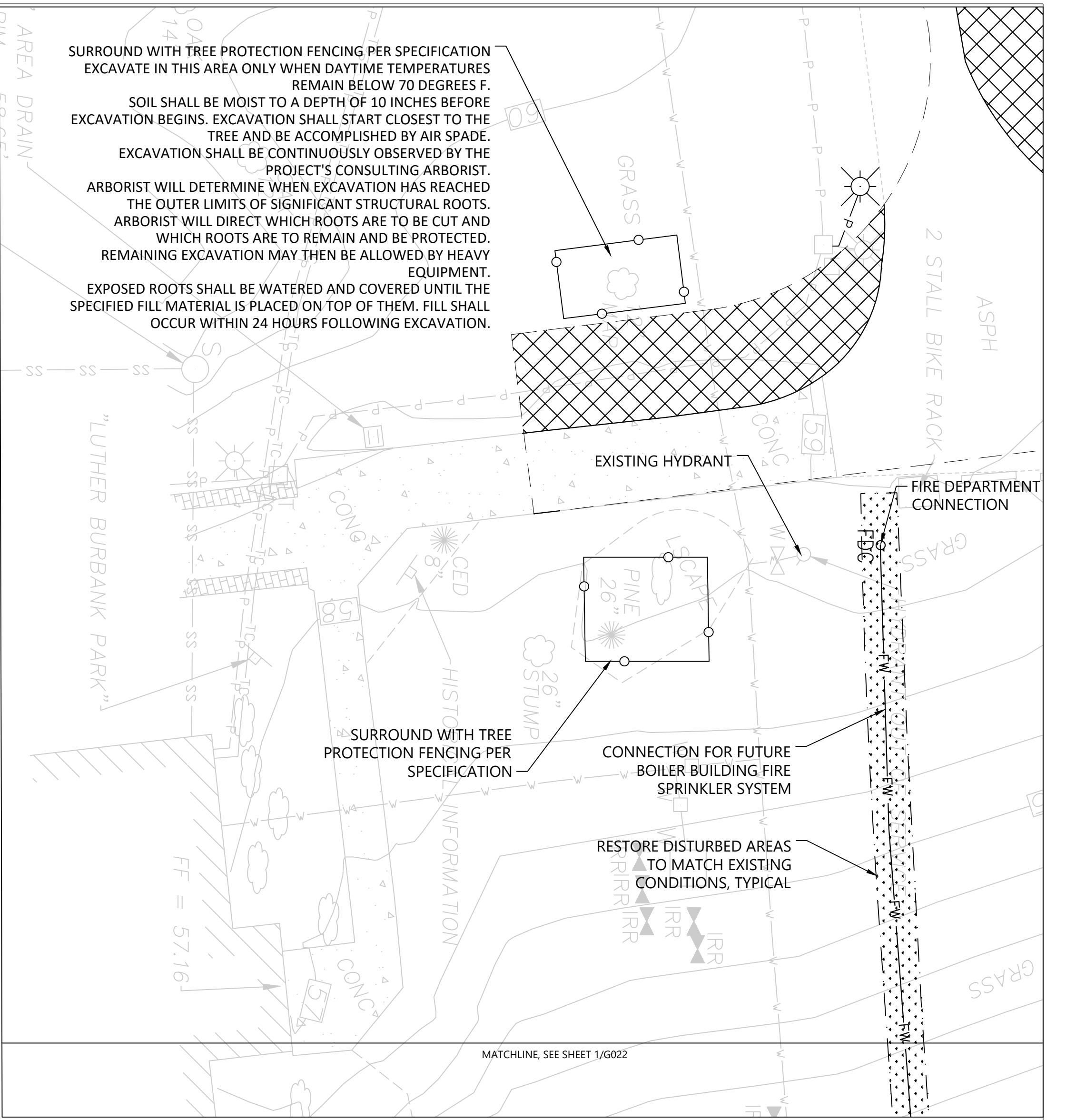
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DESIGN: AS	SCALE: AS NOTED
CHECKED: AS/DR	DATE: 10/07/2022
DRAWING NO. <b>G-021</b>	
SHEET NO. 25	OF 56

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**1 UTILITY VIEW 2**  
 SCALE: 1" = 10'



**2 UTILITY VIEW 2**  
 SCALE: 1" = 10'

**LEGEND:**

- EXISTING CONTOUR
- 18— PROPOSED CONTOUR
- CRUSHED GRAVEL PATHWAY
- GEOGRID
- LAWN

**NOTES:**

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

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**LUTHER BURBANK PARK WATERFRONT IMPROVEMENTS**

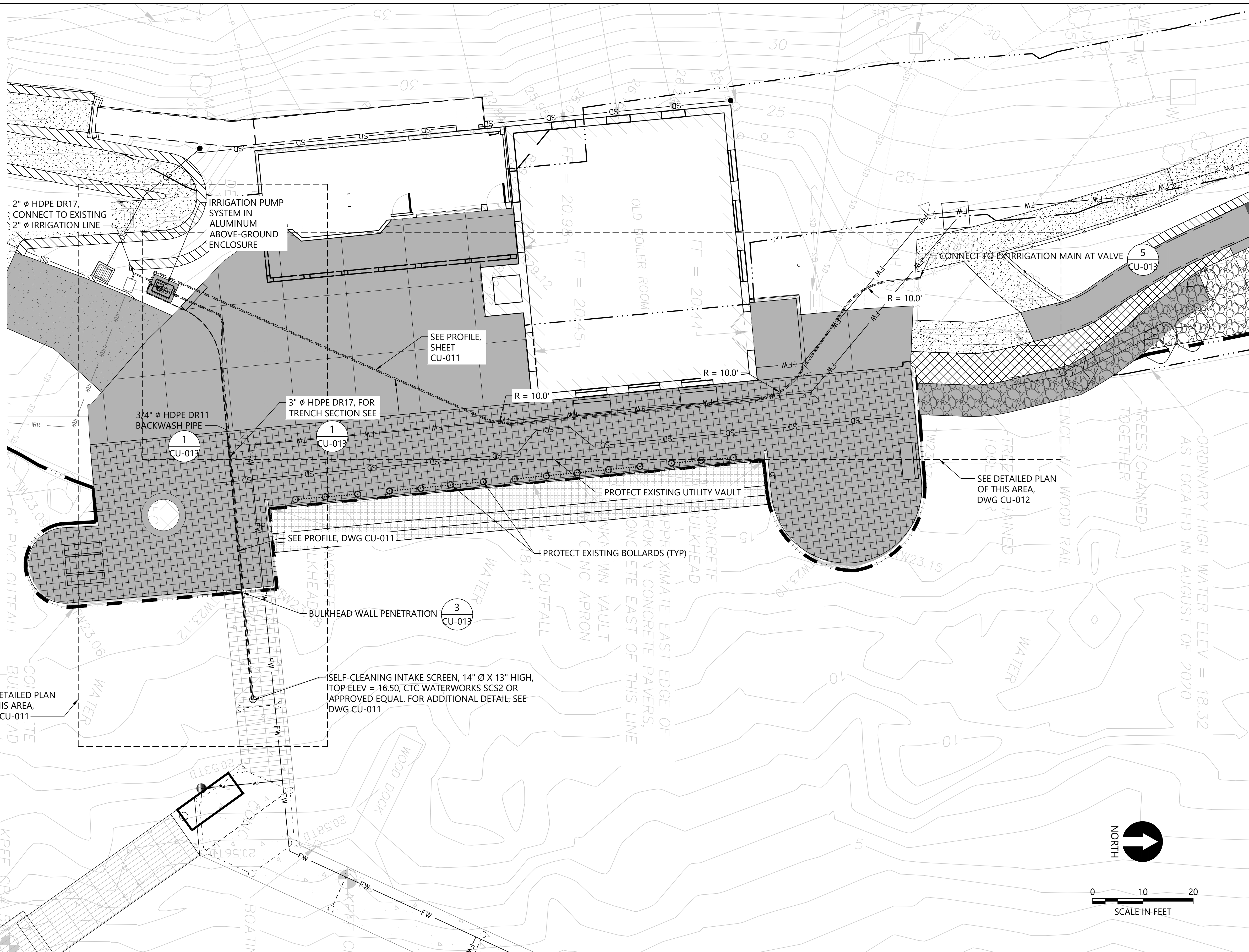
COMPOSITE SITE PLAN - 2

DRAWN: CW/RF	PROJECT NO.: 2200248
DESIGN: AS	SCALE: AS NOTED
CHECKED: AS/DR	DATE: 10/07/2022
DRAWING NO.	<b>G-022</b>
SHEET NO. 26	OF 56

60% SUBMITTAL

LEGEND:

- EXISTING CONTOUR
- EXISTING TREE TO RETAIN
- EXISTING ORDINARY HIGH WATER LINE
- EXISTING IRRIGATION LINE
- EXISTING BOULDER TO RETAIN
- PROPOSED CONTOUR
- PERVIOUS PAVERS
- CONCRETE SLAB ON GRADE WITH SAWCUT JOINT SCORING
- CRUSHED GRAVEL PATHWAY
- GRAVEL DRIVEWAY PAVING
- EXISTING BOLLARD AND CHAIN TO REMAIN
- HABITAT GRAVEL
- GRAVEL OVER COBBLE
- ROCK TERRACE
- ROCK REVETMENT
- FRP GRATING
- HANDRAIL
- SPLIT RAIL FENCING
- PICNIC TABLE
- BENCH
- SALVAGED LOG
- SALVAGED BOULDER
- 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.

CAD USER: randersens PLOT DATE: Apr 13, 2023-01:12pm  
 PATH: K:\Projects\0159-KPFF Consulting Engineers\Mercer Island Luther Burbank Dock Repair\Construction Plans\0159-PL-Intake-Overall-Site-Plan.dwg



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LUTHER BURBANK PARK  
 WATERFRONT IMPROVEMENTS

INTAKE AND PUMPING FACILITIES -  
 OVERALL PLAN

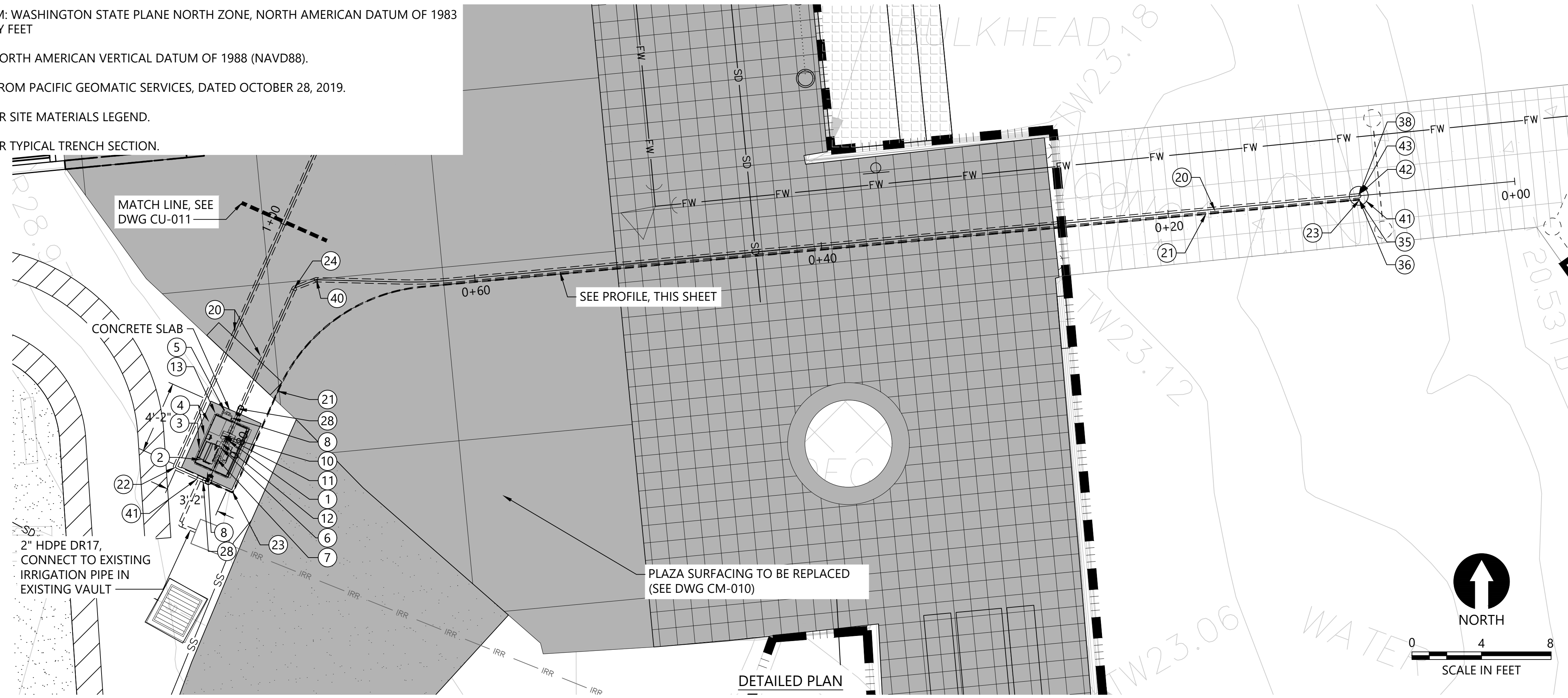
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DESIGN: AS	SCALE: AS NOTED
CHECKED: AS/DR	DATE: 10/07/2022
DRAWING NO. <b>CU-010</b>	
SHEET NO. 27 OF 56	

60% SUBMITTAL

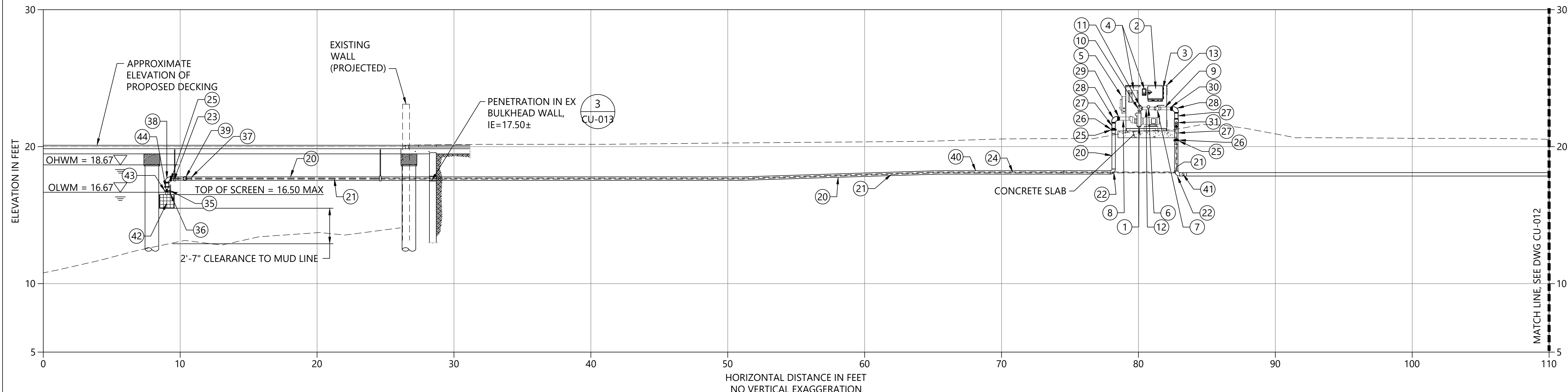


NOTES:

- HORIZONTAL DATUM: WASHINGTON STATE PLANE NORTH ZONE, NORTH AMERICAN DATUM OF 1983 (NAD83), U.S. SURVEY FEET
- VERTICAL DATUM: NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88).
- SURVEY BASE MAP FROM PACIFIC GEOMATIC SERVICES, DATED OCTOBER 28, 2019.
- SEE DWG CU-010 FOR SITE MATERIALS LEGEND.
- SEE DWG CU-013 FOR TYPICAL TRENCH SECTION.



EQUIPMENT LEGEND	
PACKAGED PUMP SYSTEM (RAINBIRD CLP5VAAS OR APPROVED EQUAL):	
NUMBER	DESCRIPTION
1	2" 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 (PROGRAMMABLE 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" HDPE DR 17 TE, BUTT FUSED
38	3" 90° BEND, SST, FL X FL
39	3" HDPE DR 11, FULL PORT, BALL VALVE, BUTT FUSED, WITH 2" OPERATING NUT
40	3" HDPE 22.5° BEND, DR17, BUTT-FUSED
41	3" HDPE 22.5° BEND, DR17, BUTT-FUSED
FISH SCREEN AND ASSOCIATED FITTINGS:	
NUMBER	DESCRIPTION
42	CTC WATERWORKS SCS2, 100 GPM MAX, SELF-CLEANING INTAKE SCREEN, OR APPROVED EQUAL
43	3" COMPANION FL, SST
44	3" DOUBLE DOOR CHECK VALVE, WAFER STYLE



**A** PIPE PROFILE  
SCALE: 1" = 4"

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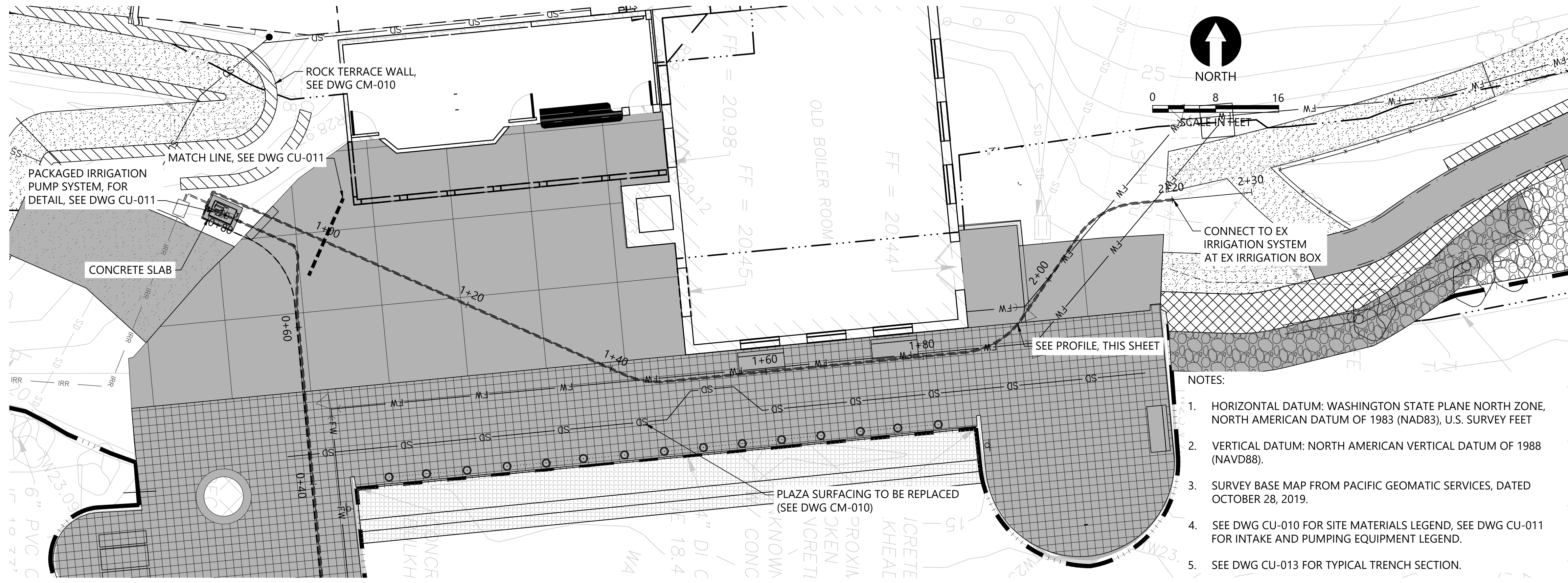


**LUTHER BURBANK PARK  
WATERFRONT IMPROVEMENTS**

**INTAKE AND PUMPING FACILITIES -  
EQUIPMENT PLAN AND SECTIONS (1 OF 2)**

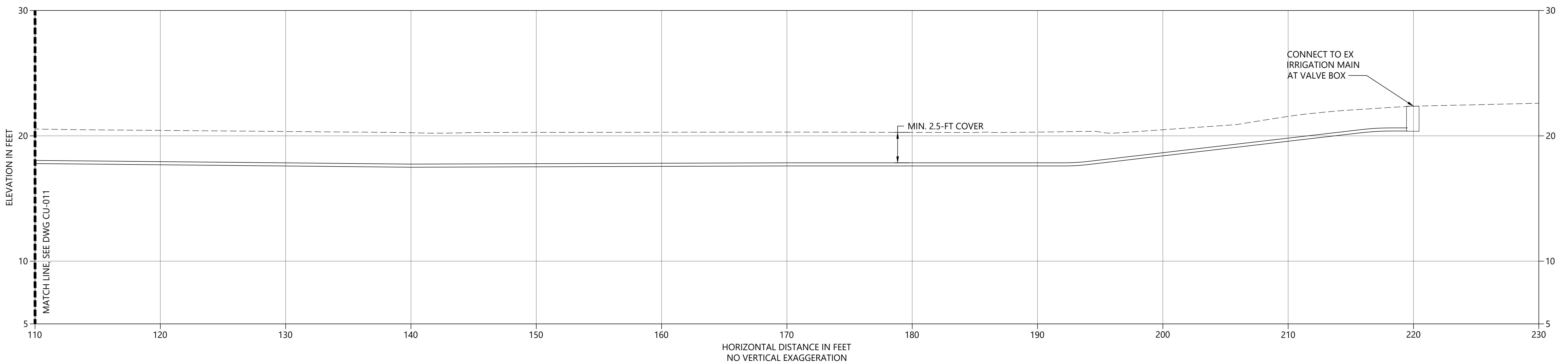
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DESIGN: AS	SCALE: AS NOTED
CHECKED: AS/DR	DATE: 10/07/2022
DRAWING NO. <b>CU-011</b>	
SHEET NO. 28 OF 56	

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- 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.
  4. SEE DWG CU-010 FOR SITE MATERIALS LEGEND, SEE DWG CU-011 FOR INTAKE AND PUMPING EQUIPMENT LEGEND.
  5. SEE DWG CU-013 FOR TYPICAL TRENCH SECTION.

DETAILED PLAN



A PIPE PROFILE  
SCALE: 1" = 4'

CAD USER: randersenn PLOT DATE: Apr 13, 2023-01:12pm  
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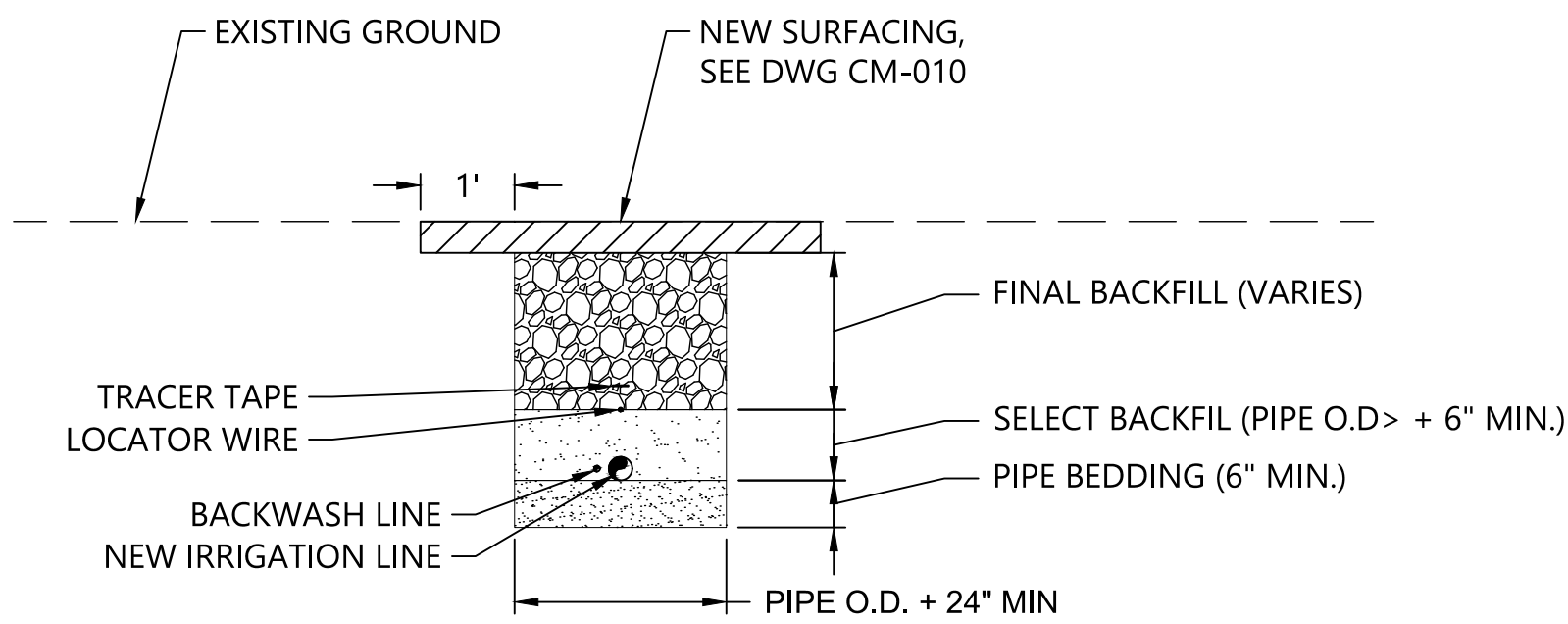
**LUTHER BURBANK PARK**  
WATERFRONT IMPROVEMENTS

INTAKE AND PUMPING FACILITIES -  
EQUIPMENT PLAN AND SECTIONS (2 OF 2)

DRAWN: CW/RF	PROJECT NO.: 2200248
DESIGN: AS	SCALE: AS NOTED
CHECKED: AS/DR	DATE: 10/07/2022
DRAWING NO. <b>CU-012</b>	
SHEET NO. 29	OF 56

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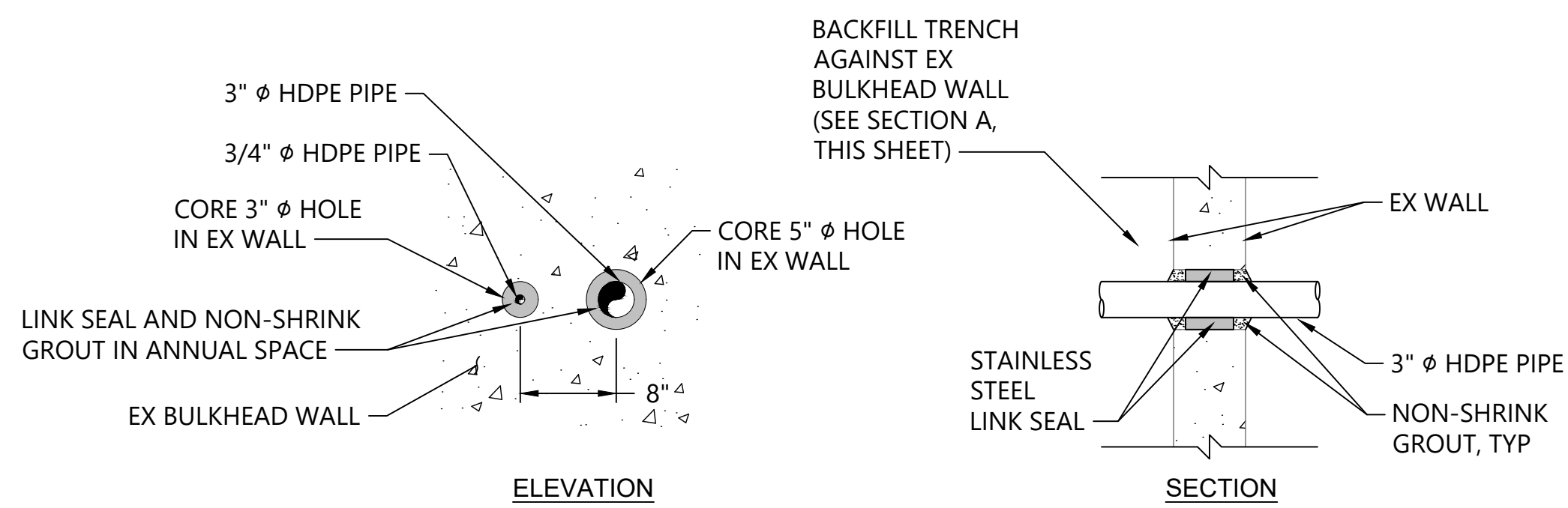
1 TYPICAL TRENCH SECTION  
 ### SCALE: NTS

- 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.

PLACEHOLDER - DETAIL TO BE ADDED AT 90% DESIGN

2 INTAKE SCREEN DETAIL  
 ### SCALE: NTS

PLACEHOLDER - DETAIL TO BE ADDED AT 90% DESIGN



3 BULKHEAD WALL PENETRATION DETAIL  
 ### SCALE: 1" = 1'

4 DRAIN VALVE DETAIL  
 ### SCALE: NTS

PLACEHOLDER - DETAIL TO BE ADDED AT 90% DESIGN

5 EXISTING IRRIGATION MAIN CONNECTION DETAIL  
 ### SCALE: NTS



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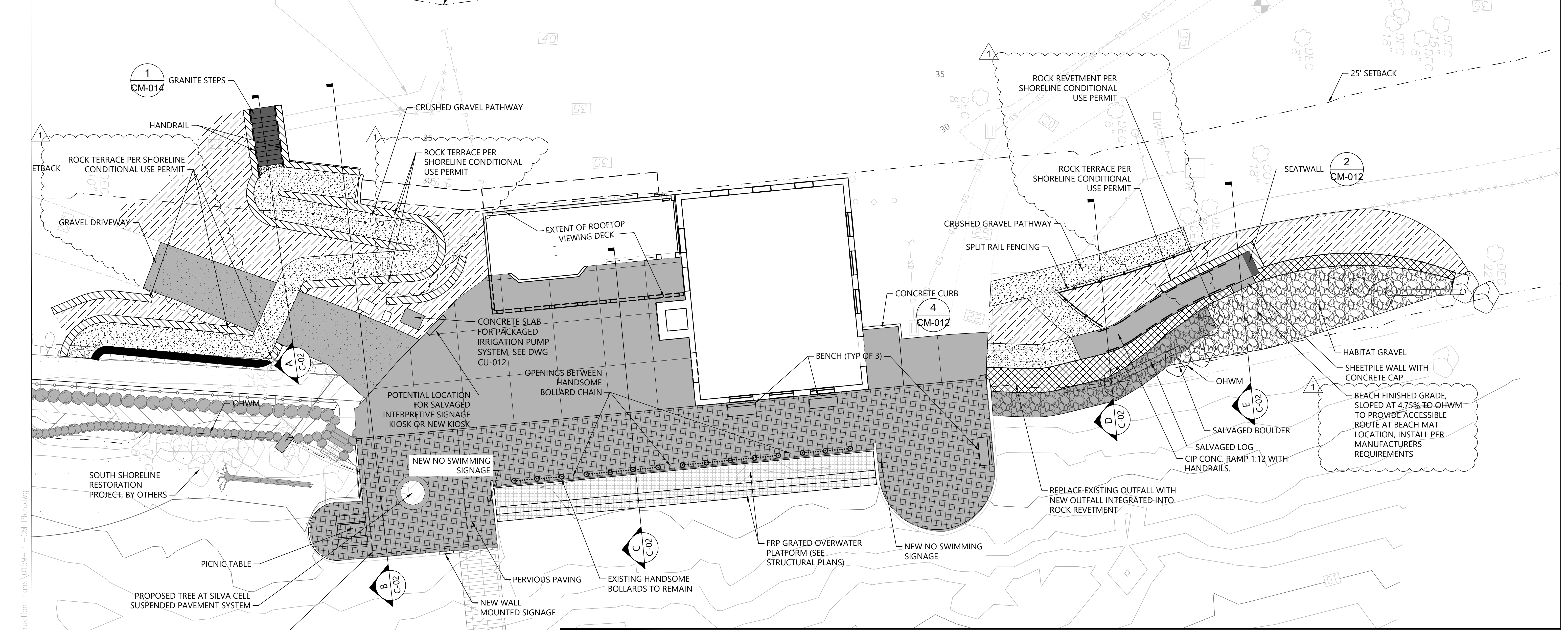


LUTHER BURBANK PARK  
 WATERFRONT IMPROVEMENTS

INTAKE AND PUMPING FACILITIES -  
 DETAILS

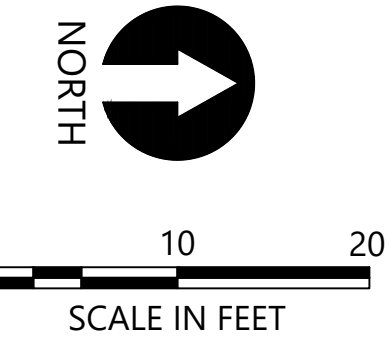
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DESIGN: AS	SCALE: AS NOTED
CHECKED: AS/DR	DATE: 10/07/2022
DRAWING NO. <b>CU-013</b>	
SHEET NO. 30	OF 56

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**LEGEND:**

EXISTING CONTOUR	TOPSOIL
EXISTING TREE TO RETAIN	ROCK TERRACE <sup>6</sup> CM-013
EXISTING BOULDER TO RETAIN	ROCK REVETMENT <sup>3</sup> CM-014
PERVIOUS PAVERS	FRP GRATING
CONCRETE SLAB ON GRADE WITH SAWCUT JOINT SCORING <sup>1</sup> CM-012	HANDRAIL <sup>2</sup> CM-014
CRUSHED GRAVEL PATHWAY <sup>2</sup> CM-013	SPLIT RAIL FENCING <sup>1</sup> CM-015
GRAVEL DRIVEWAY PAVING <sup>1</sup> CM-013	PICNIC TABLE <sup>2</sup> CM-015
EXISTING BOLLARD AND CHAIN TO REMAIN	BENCH <sup>3</sup> CM-015
HABITAT GRAVEL <sup>4</sup> CM-013	SALVAGED LOG <sup>3</sup> CM-013
GRAVEL OVER COBBLE <sup>4</sup> CM-013	SALVAGED BOULDER <sup>5</sup> CM-013
	OHWM
	OHWM 25 FT OFFSET



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

CAD USER: randersn PLOT DATE: Apr 13, 2023-01:13pm  
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1A	4/14/2023	RA	MIFD COMMENT REVISION



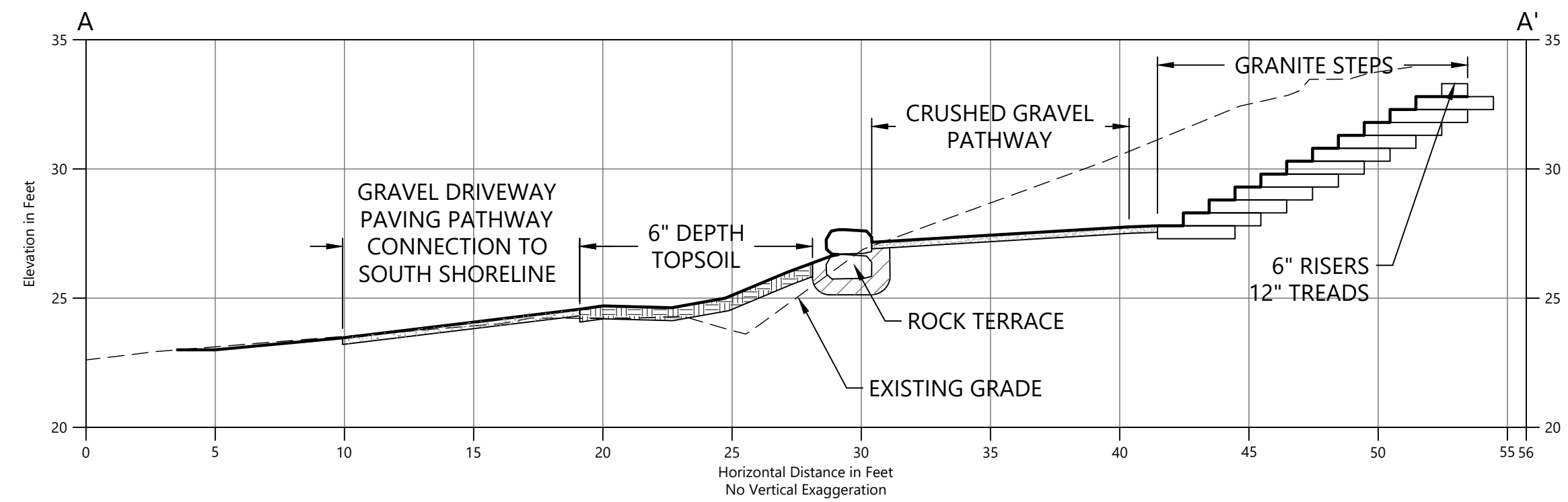
**LUTHER BURBANK PARK  
WATERFRONT IMPROVEMENTS**

MATERIALS PLAN

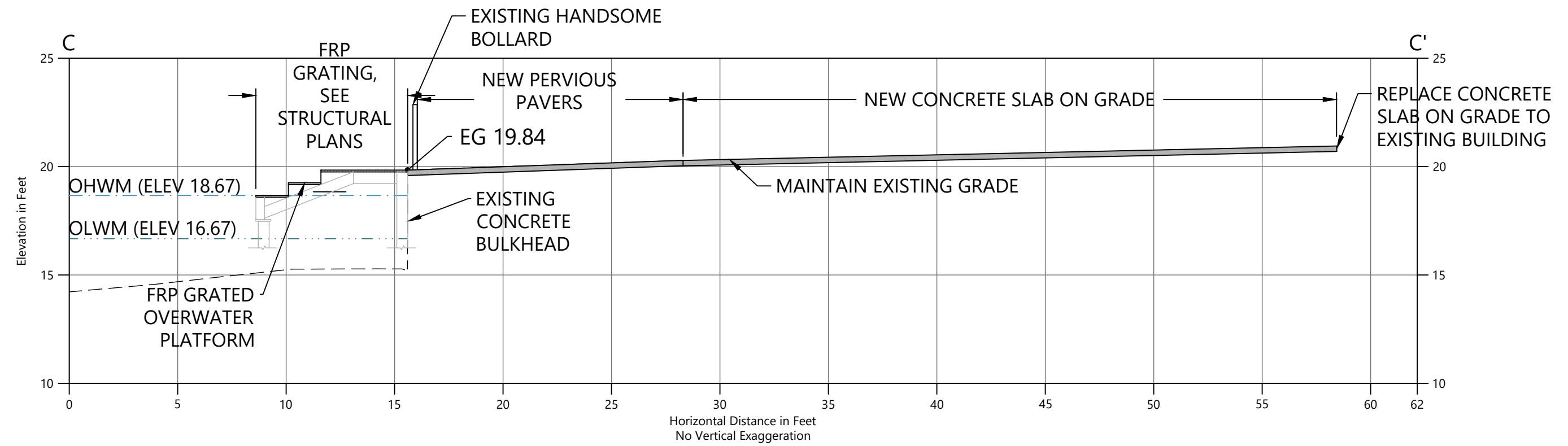
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DESIGN: AS	SCALE: AS NOTED
CHECKED: AS/DR	DATE: 10/07/2022
DRAWING NO. <b>CM-010</b>	
SHEET NO. 31	OF 56

60% SUBMITTAL

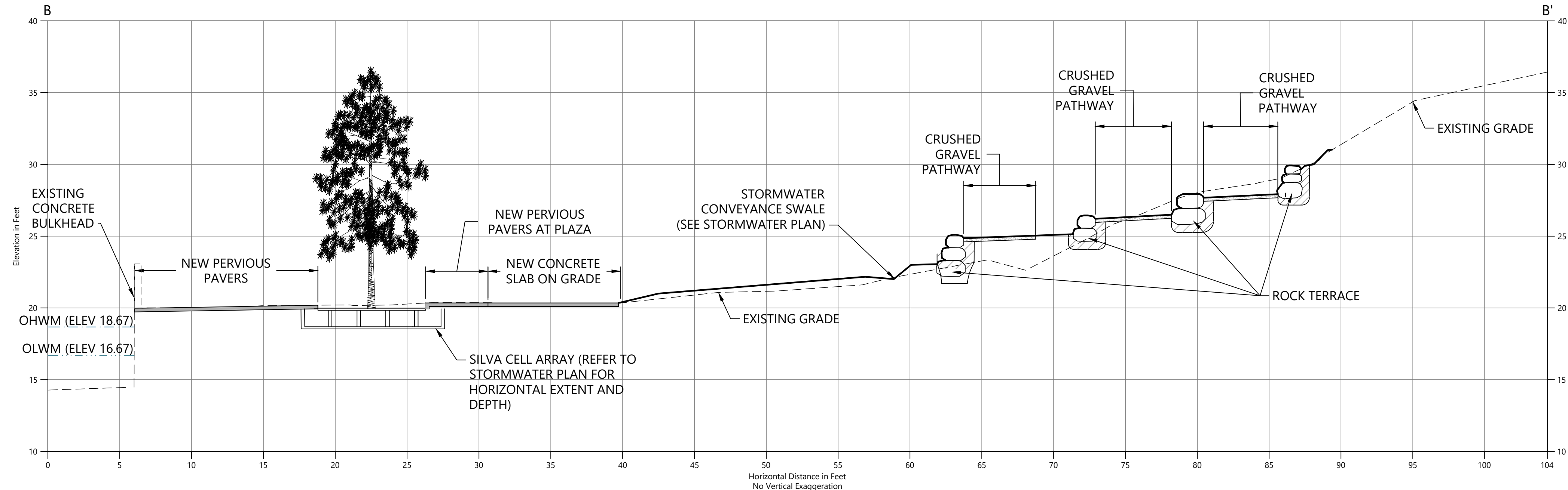
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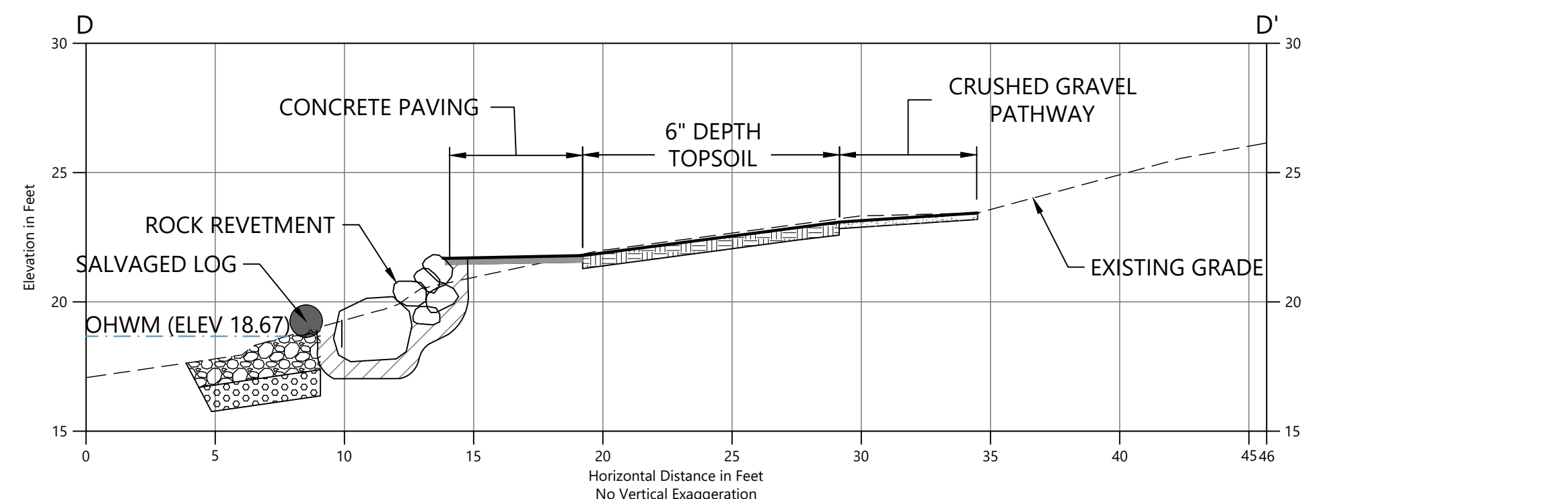
**A** SECTION A  
 C-1 SCALE: 1" = 5'



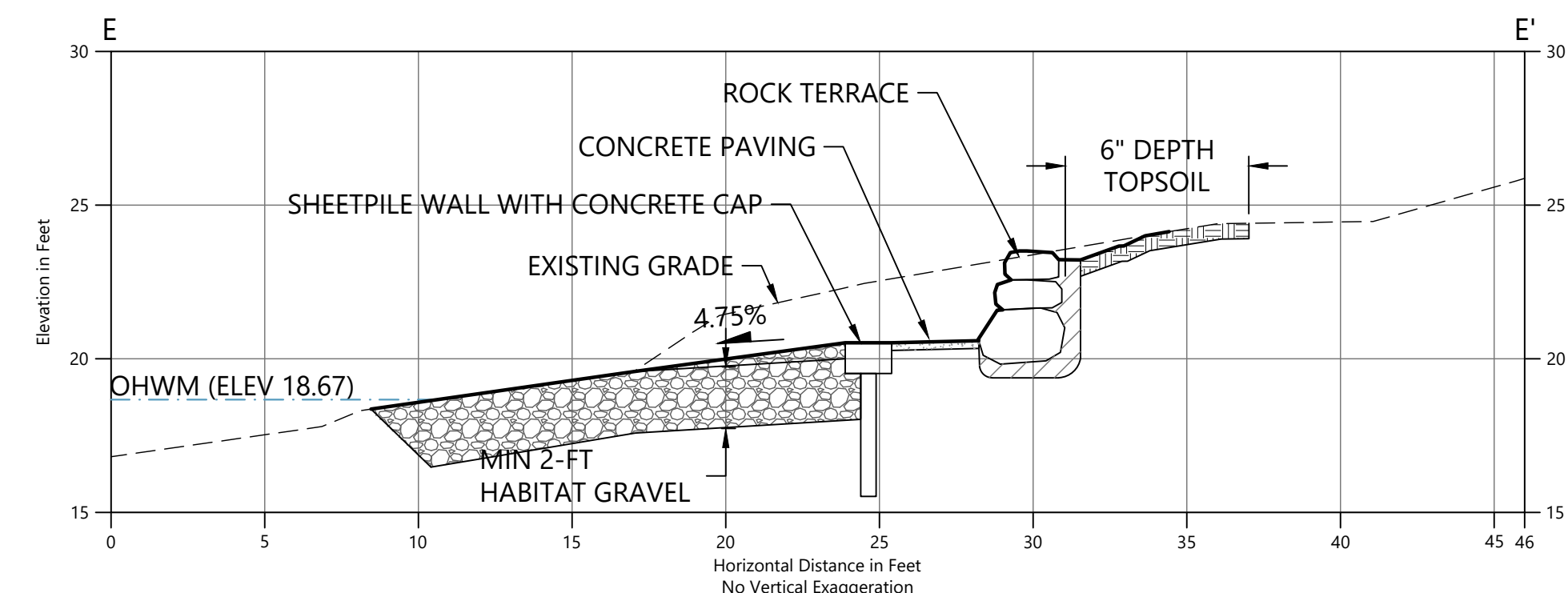
**C** SECTION C  
 C-1 SCALE: 1" = 5'



**B** SECTION B  
 C-1 SCALE: 1" = 5'

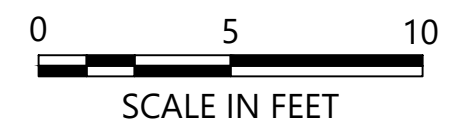


**D** SECTION D  
 C-1 SCALE: 1" = 5'



**E** SECTION E  
 C-1 SCALE: 1" = 5'

- LEGEND:**
- - - EXISTING GRADE
  - PROPOSED GRADE
  - [Pattern] HABITAT GRAVEL
  - [Pattern] ROCK TERRACE
  - [Pattern] TOPSOIL
  - [Pattern] CRUSHED GRAVEL PATHWAY



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



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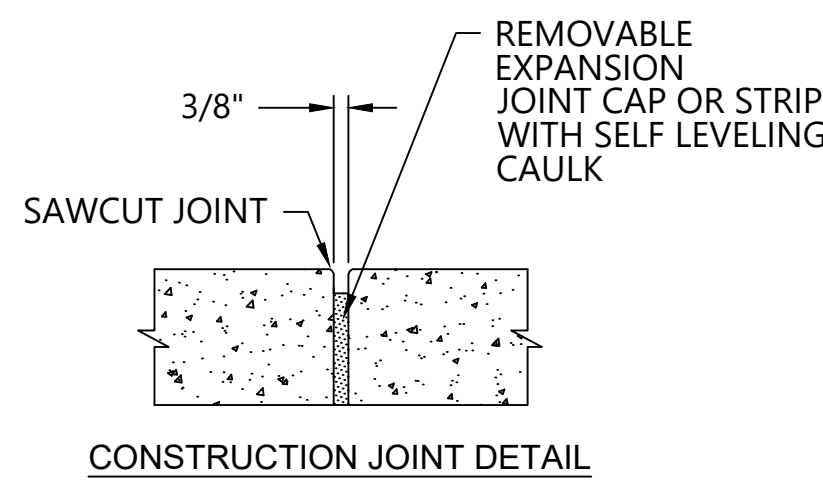
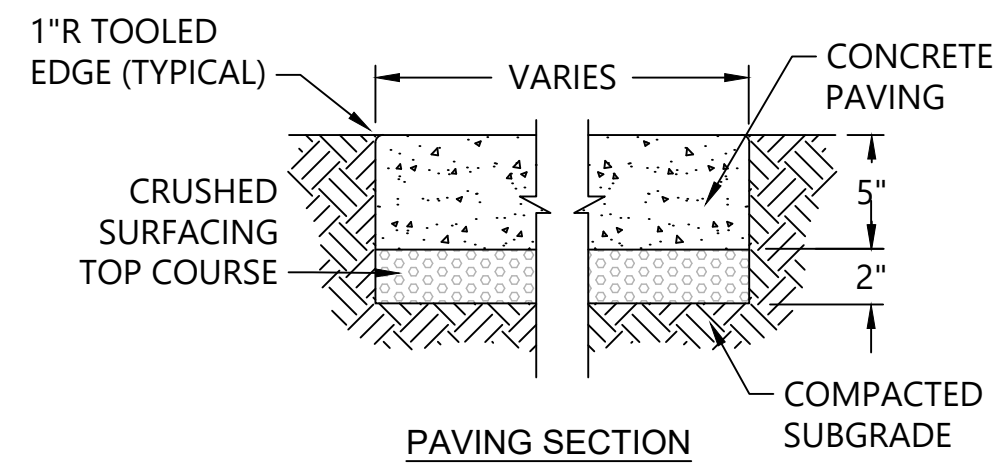
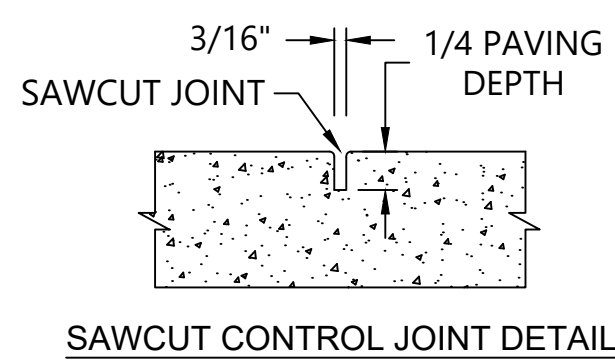
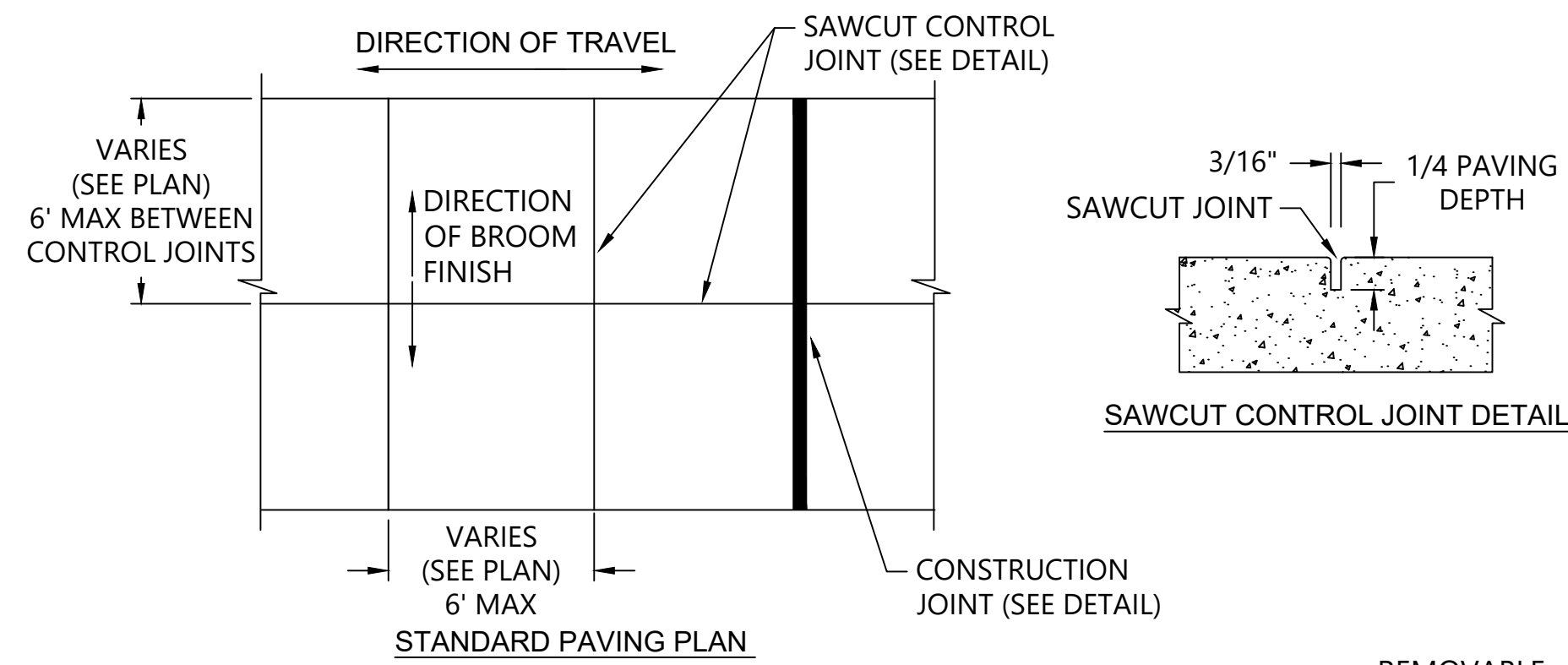


**LUTHER BURBANK PARK  
 WATERFRONT IMPROVEMENTS**

**CONSTRUCTION MATERIALS  
 CROSS-SECTIONS**

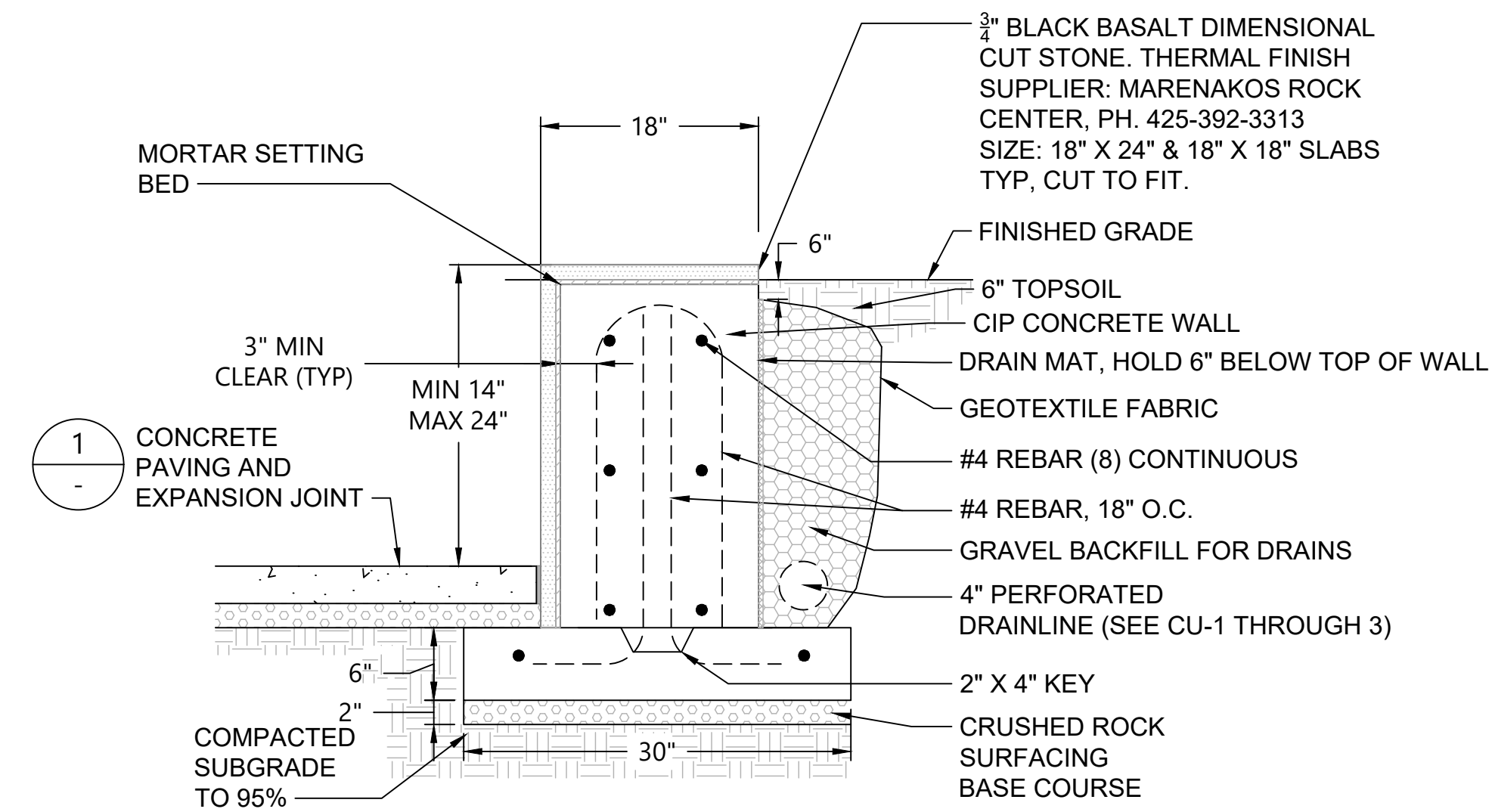
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DESIGN: AS	SCALE: AS NOTED
CHECKED: AS/DR	DATE: 10/07/2022
DRAWING NO. <b>CM-011</b>	
SHEET NO. 32	OF 56

60% SUBMITTAL

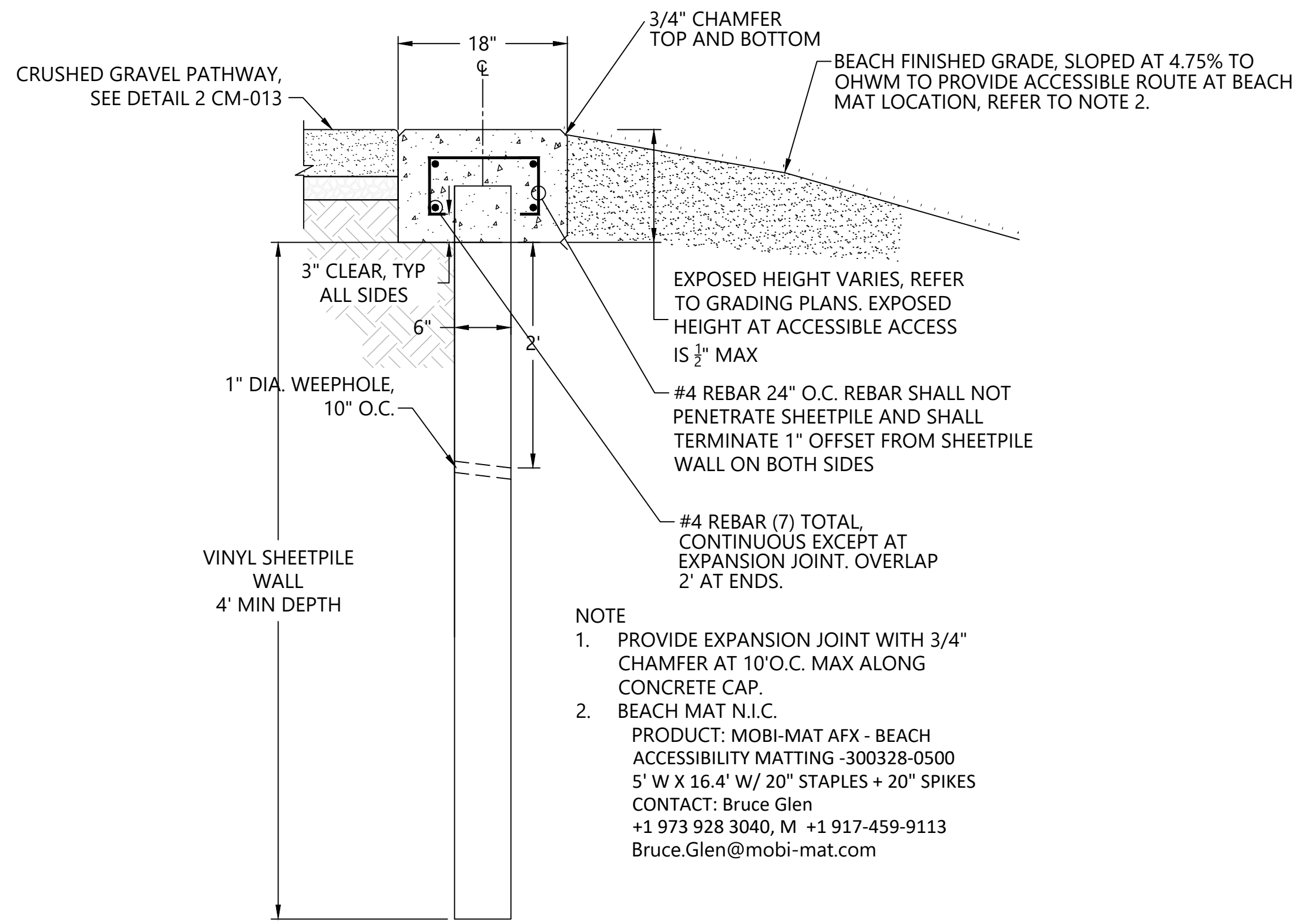


**1 CONCRETE PAVING**  
SCALE: NTS

NOTE: CONCRETE PAVING SHALL INCLUDE FIBERMESH PER SPECIFICATIONS.

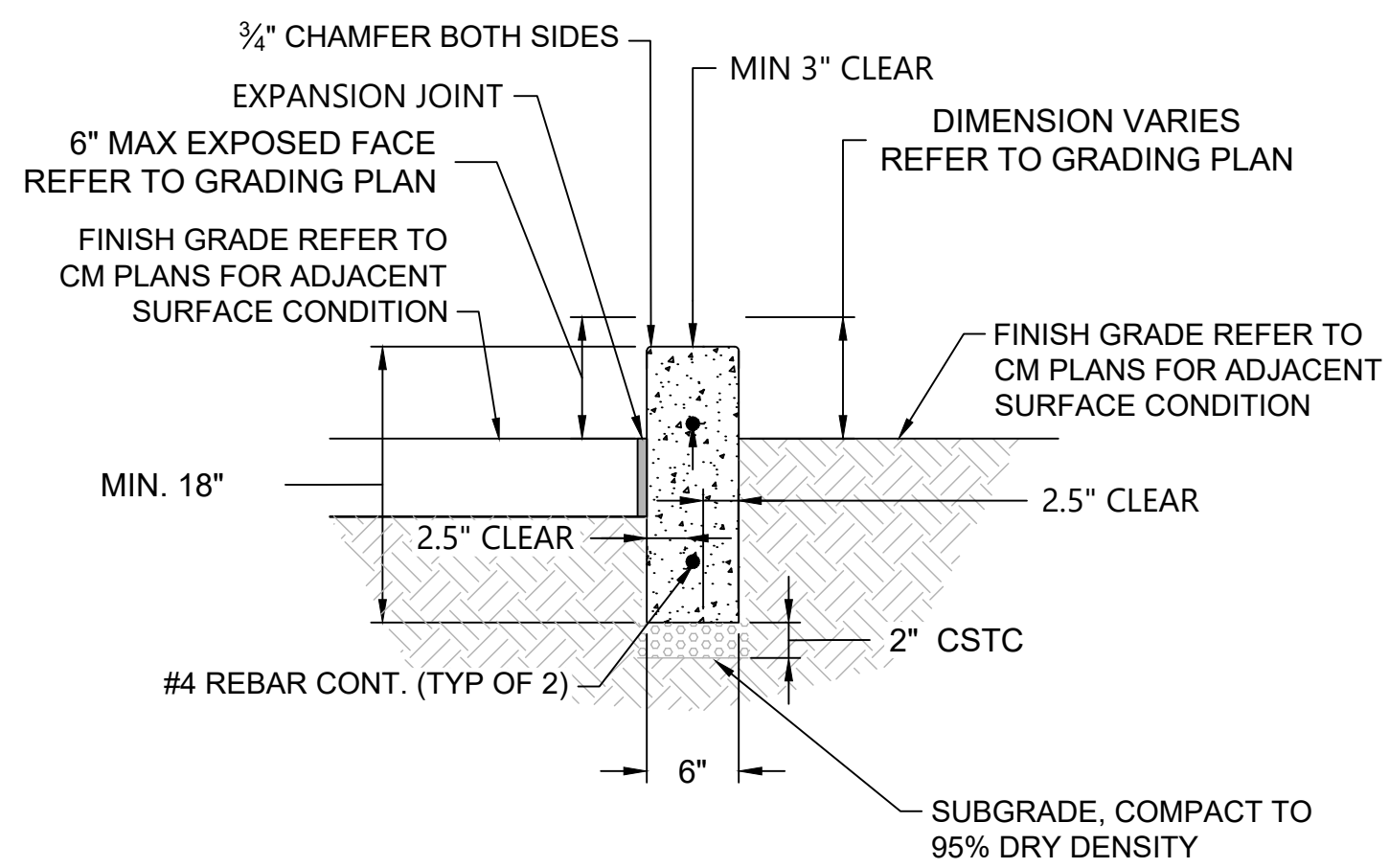


**2 STONE CLAD SEAT WALL**  
SCALE: 1" = 1'



NOTE  
1. PROVIDE EXPANSION JOINT WITH 3/4" CHAMFER AT 10'O.C. MAX ALONG CONCRETE CAP.  
2. BEACH MAT N.I.C. PRODUCT: MOBI-MAT AFX - BEACH ACCESSIBILITY MATTING -300328-0500 5' W X 16.4' W/ 20" STAPLES + 20" SPIKES CONTACT: Bruce Glen +1 973 928 3040, M +1 917-459-9113 Bruce.Glen@mobi-mat.com

**3 SHEETPILE WALL WITH CONCRETE CAP**  
SCALE: 1" = 1.0'



NOTES:  
WHEN CONCRETE CURB IS ADJACENT TO CONCRETE PAVING, INSTALL PRE-MOLDED JOINT FILLER AT INTERFACE, USE SNAP LOCK FILLED WITH SIKA FLEX SELF-LEVELING CAULK.

**4 CONCRETE CURB**  
SCALE: 1" = 1.0'

PLACEHOLDER - DETAIL TO BE ADDED AT 90% DESIGN

**1 OUTFALL**  
SCALE: 1" = 1'

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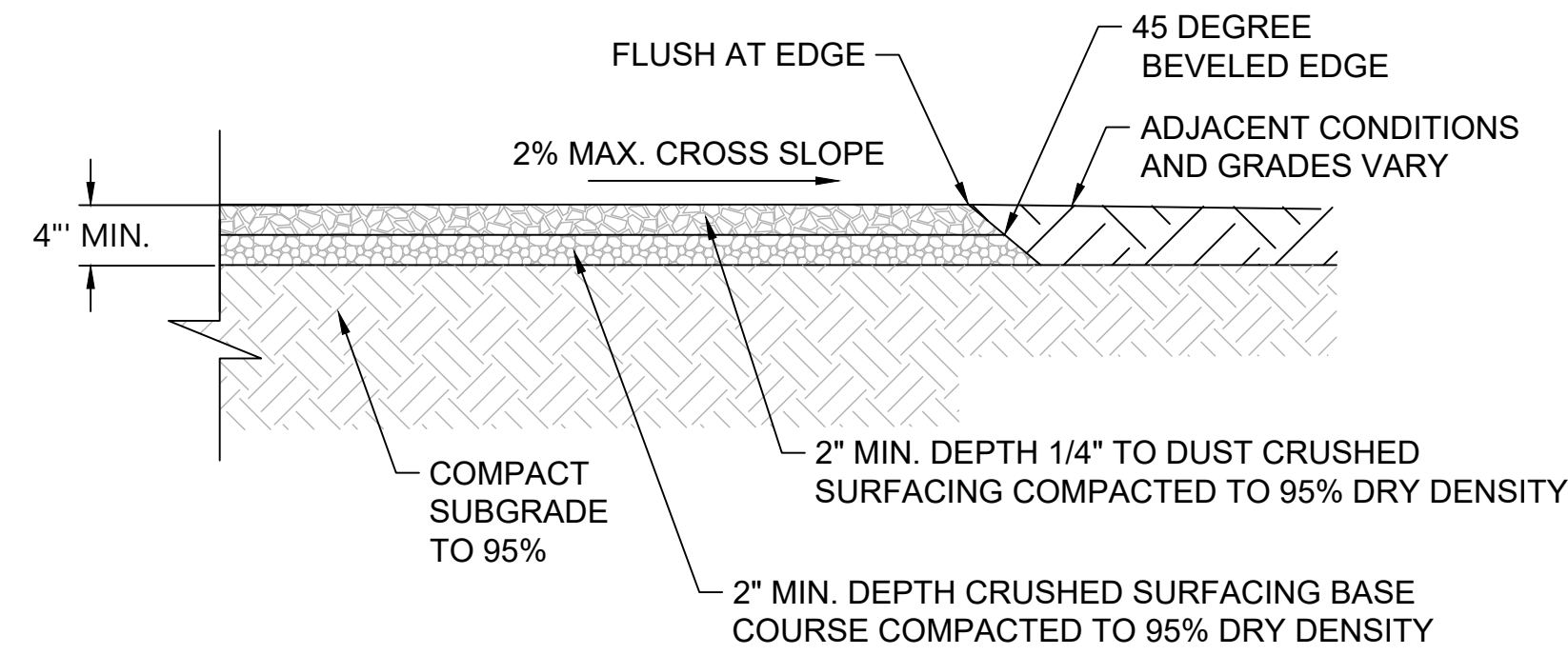


**LUTHER BURBANK PARK  
WATERFRONT IMPROVEMENTS**  
  
CONSTRUCTION MATERIALS DETAILS  
(SHEET 1 OF 4)

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DESIGN: AS	SCALE: AS NOTED
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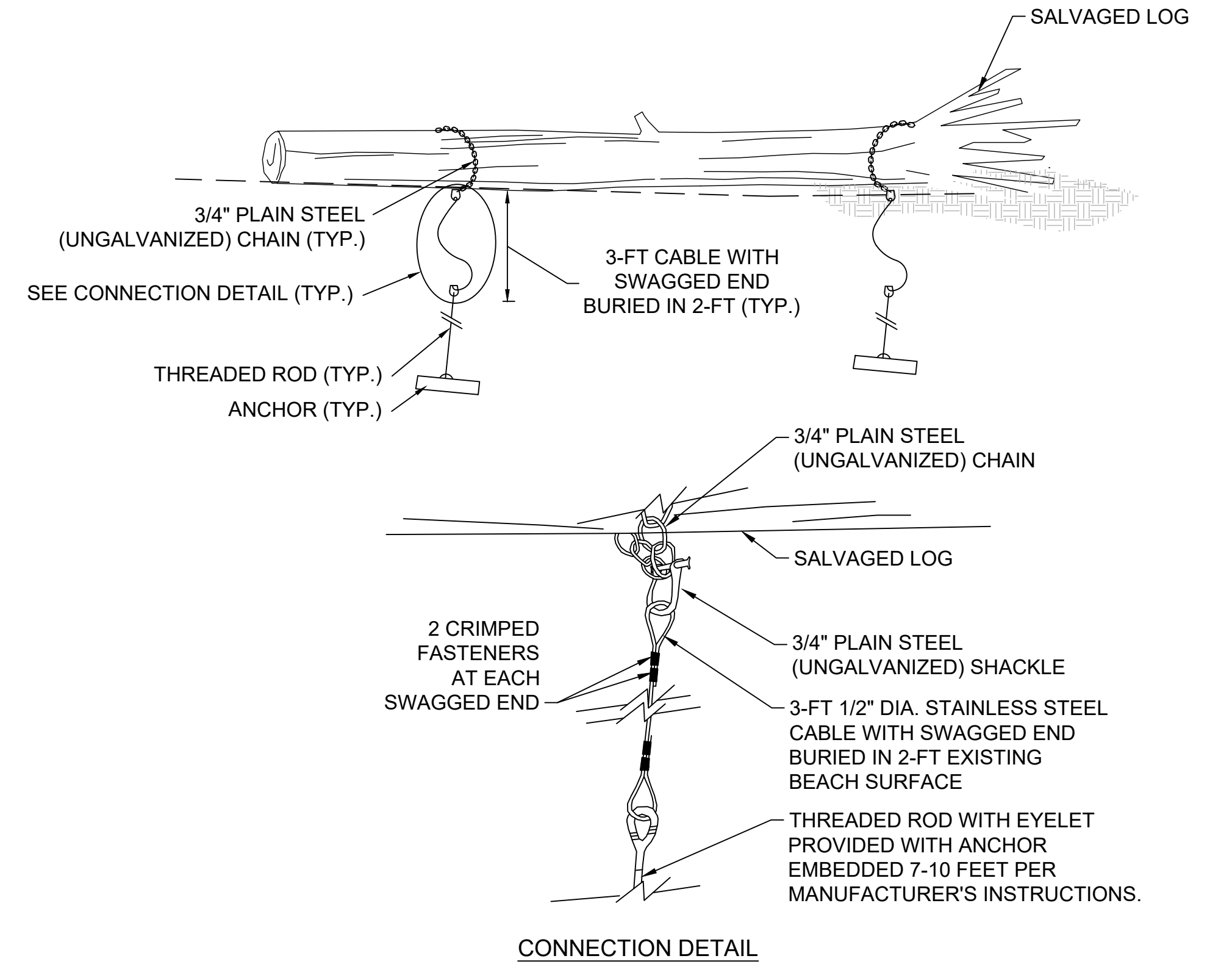
60% SUBMITTAL

PLACEHOLDER - DETAIL TO BE ADDED AT 90% DESIGN

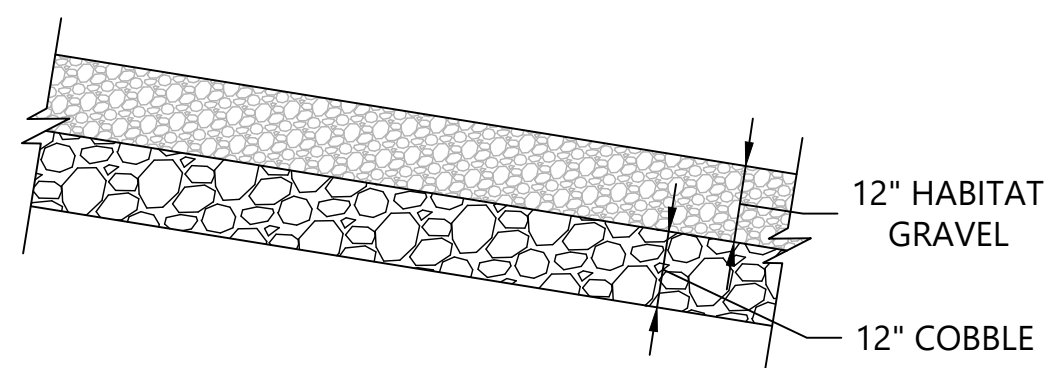


**1 GRAVEL DRIVEWAY PAVING**  
SCALE: 1" = 1"

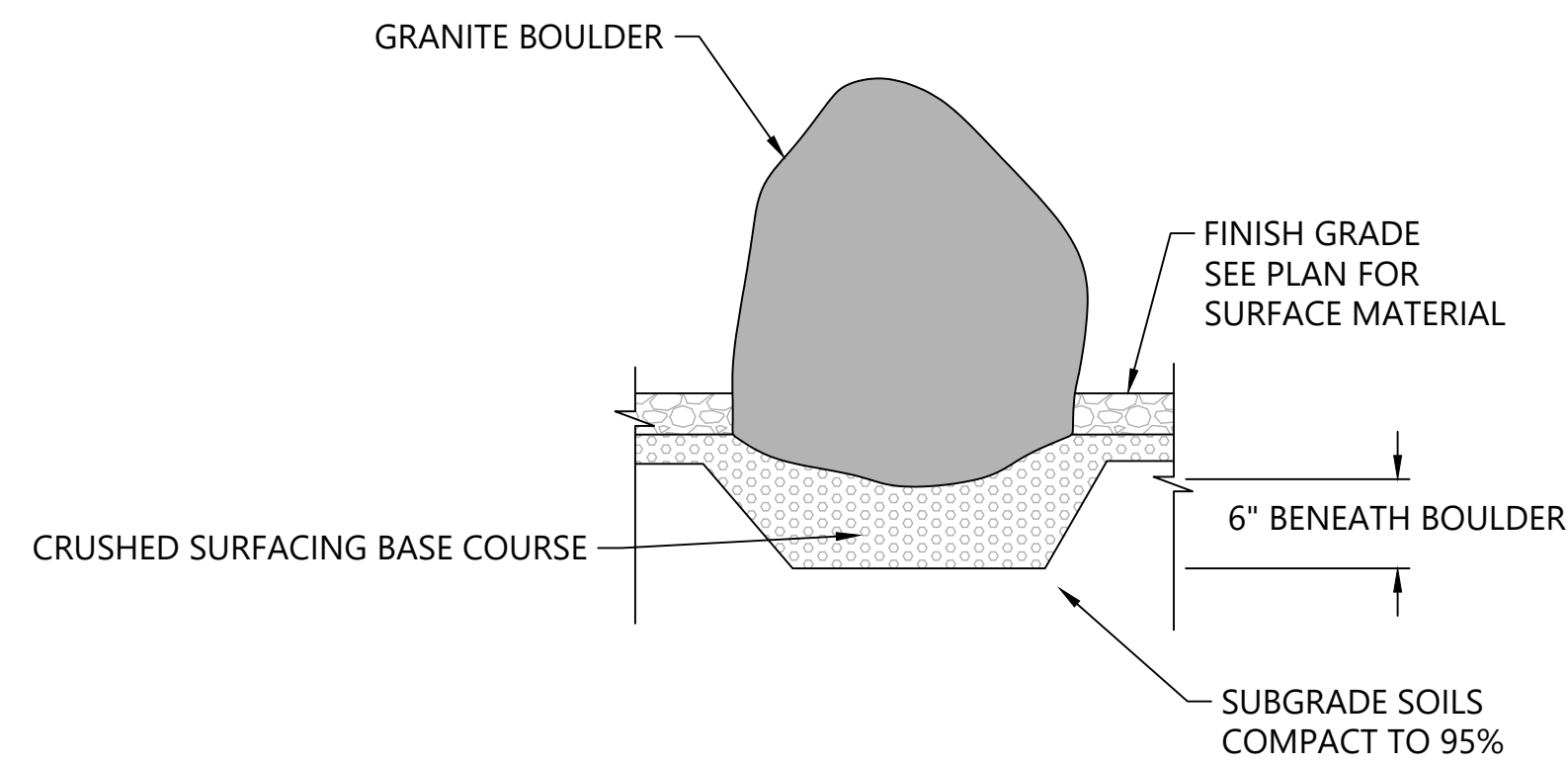
**2 CRUSHED GRAVEL PATHWAY**  
SCALE: 1" = 1"



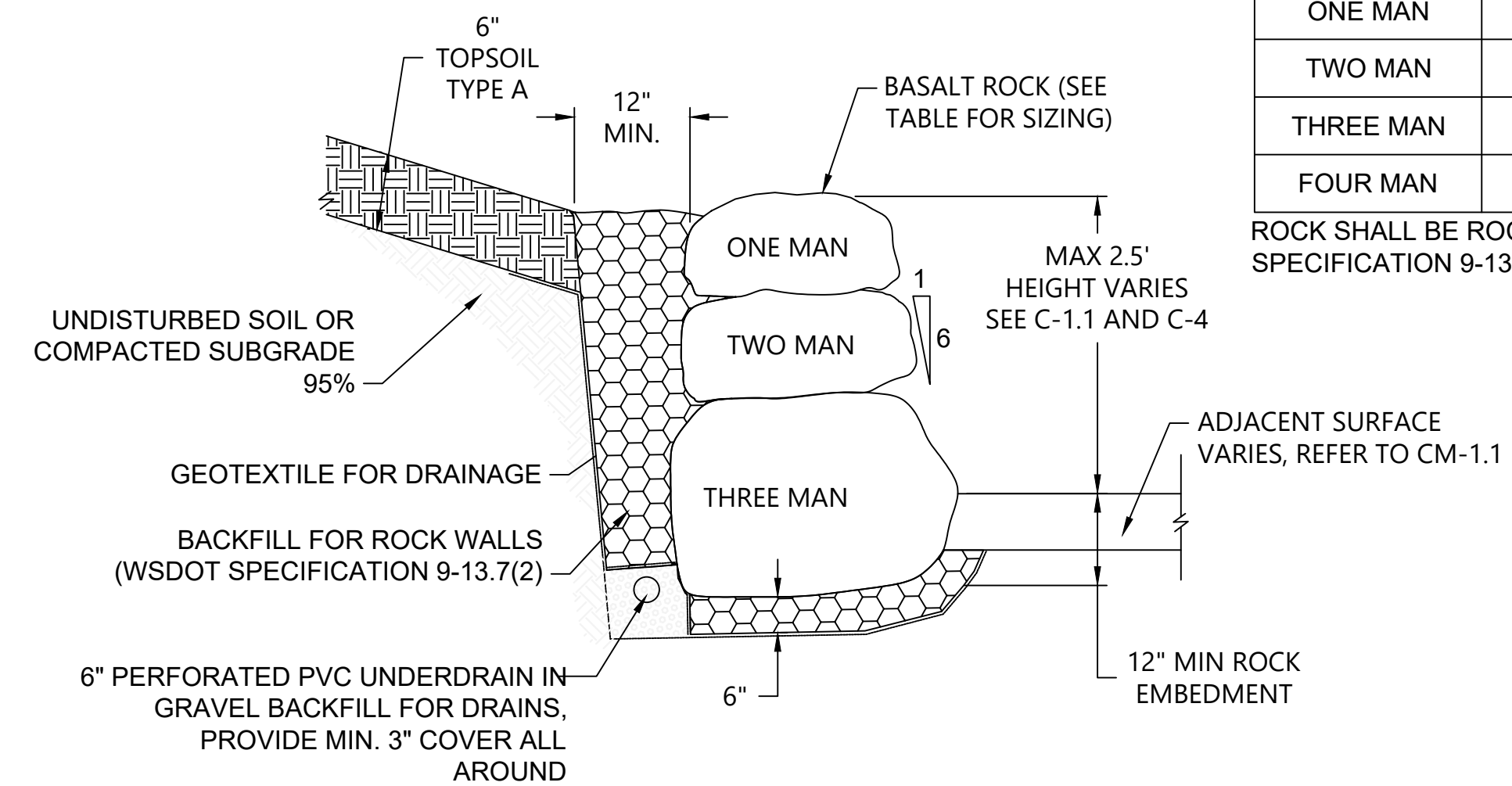
**3 SALVAGED LOG**  
SCALE: NTS



**4 HABITAT GRAVEL OVER COBBLE**  
SCALE: NOT TO SCALE



**5 SALVAGED BOULDER**  
SCALE: NTS



**6 BASALT ROCK TERRACE**  
SCALE: NOT TO SCALE

BASALT ROCK TABLE		
ROCK SIZE	ROCK WEIGHT (LBS)	AVERAGE DIMENSION (IN)
ONE MAN	50-200	12 TO 18
TWO MAN	200 TO 700	18 TO 28
THREE MAN	700 TO 2,000	28 TO 36
FOUR MAN	2,000 TO 4,000	36 TO 48

ROCK SHALL BE ROCK FOR ROCK WALL (WSDOT SPECIFICATION 9-13.7(1))

REFER TO WSDOT SPECIFICATION SPECIAL PROVISION 9-13.6(1) FOR HABITAT GRAVEL AND 9-13.6(2) BEACH SAND. COBBLE SHALL BE 8" STREAMBED COBBLE PER WSDOT SPECIFICATION 9-03.11(2).

NOTE: INSTALL CRUSHED SURFACING TOP COURSE OR RECYCLED AC BASE FOR BOULDERS 4 C FEET AND LARGER. FOR BOULDERS UNDER 4 CUBIC FEET PLACE ON 95% COMPACTED SUBGRADE AND BURY IN 6-12" OF BEACH GRAVEL/RIVER ROCK.

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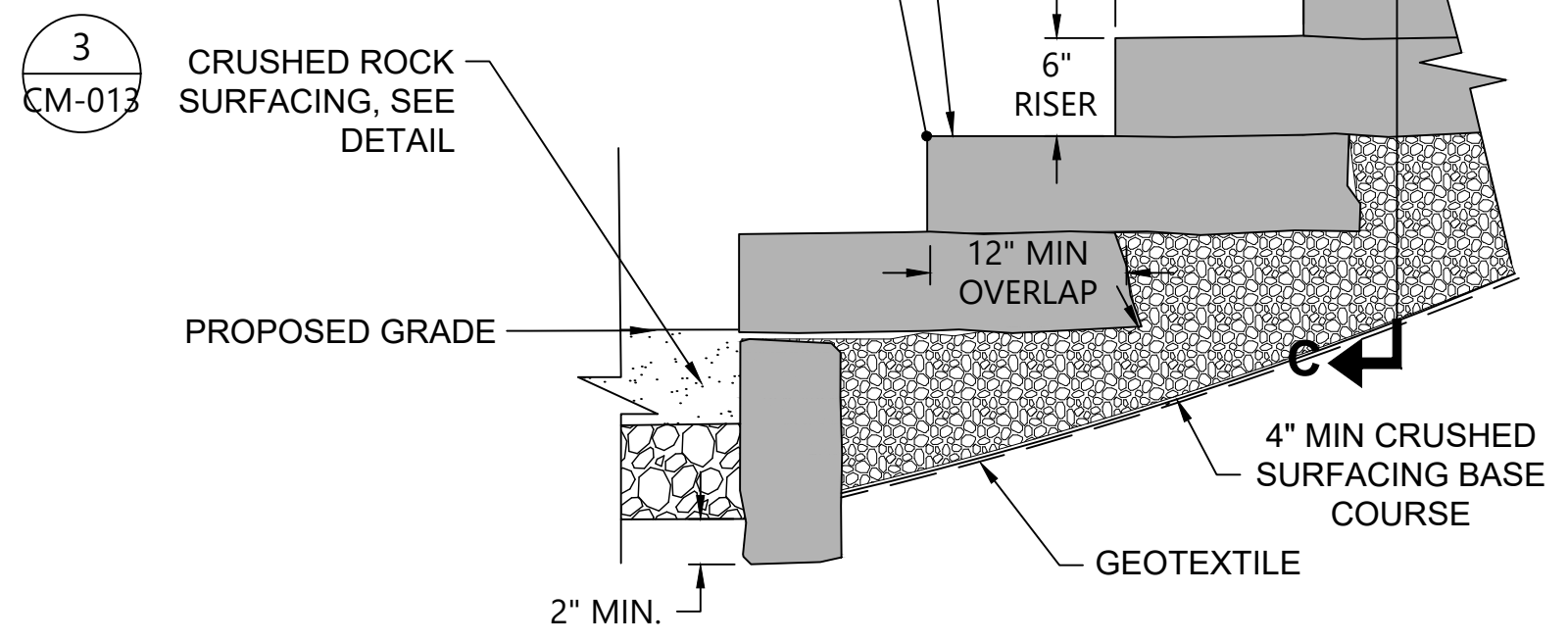
LUTHER BURBANK PARK  
WATERFRONT IMPROVEMENTS

CONSTRUCTION MATERIALS DETAILS  
(SHEET 2 OF 4)

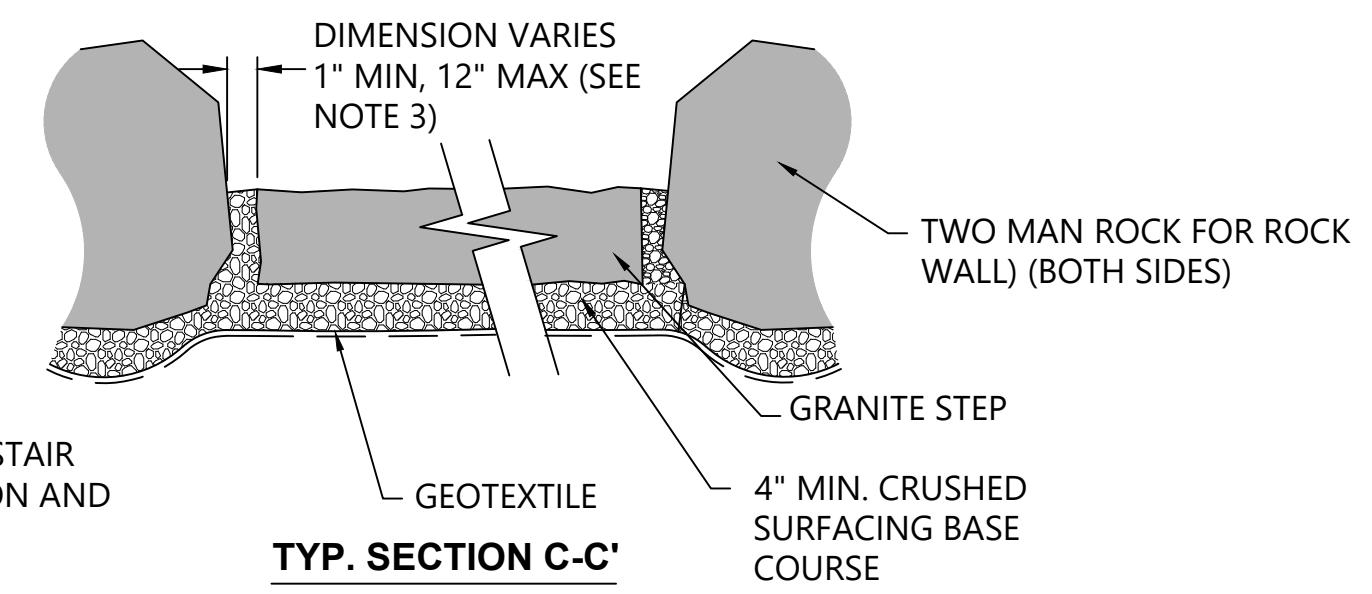
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DESIGN: AS	SCALE: AS NOTED
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SHEET NO. 34	OF 56

60% SUBMITTAL

BLACK BASALT STEPS  
DIMENSIONAL STONE.  
FINISH: THERMAL WALKING  
SURFACE AND ROCKFACE  
EDGES SUPPLIER:  
MARENAKOS ROCK CENTER,  
PH. 425-392-3313  
SIZE: 6"x15"x48" TYP



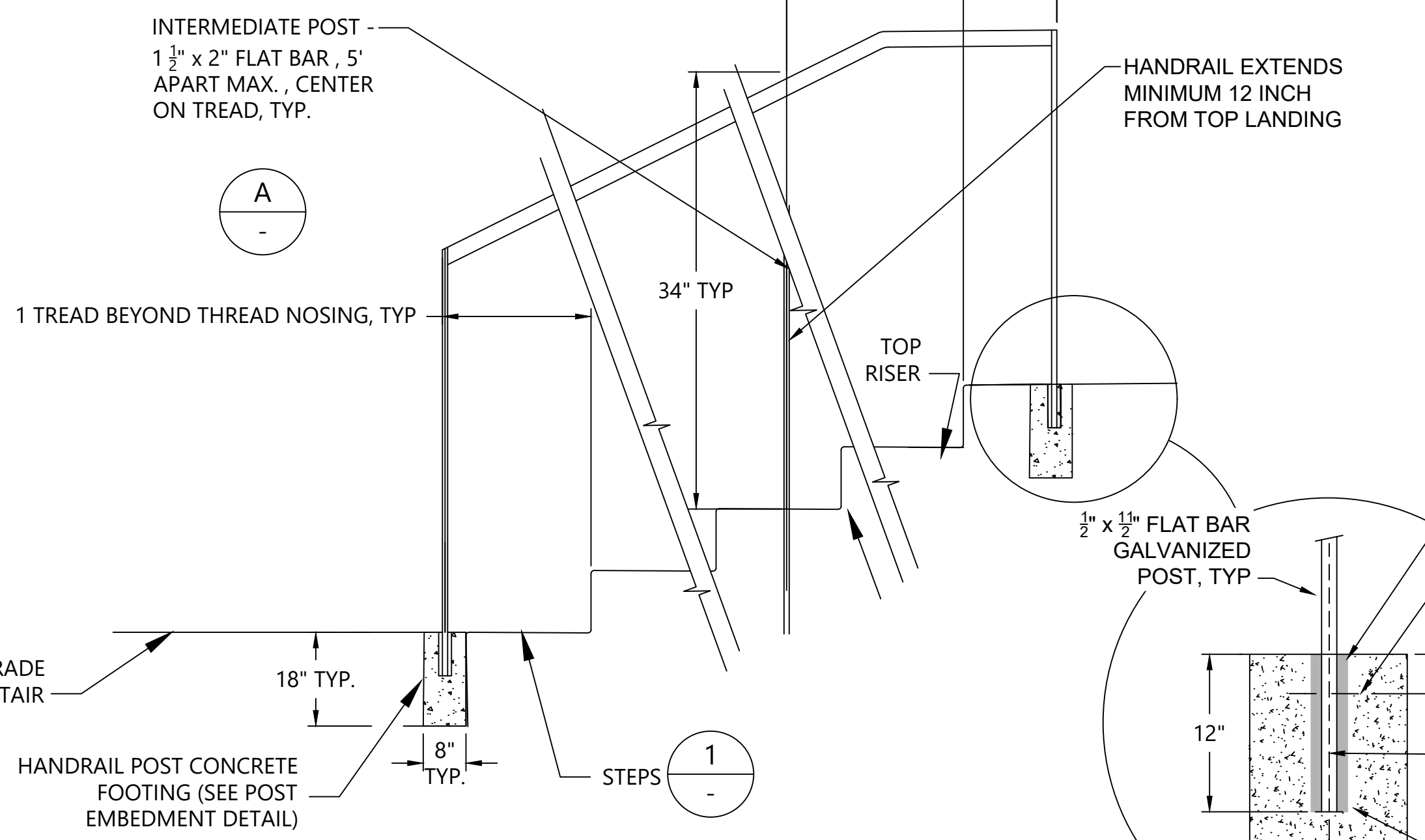
**TYPICAL SECTION**



**TYP. SECTION C-C'**

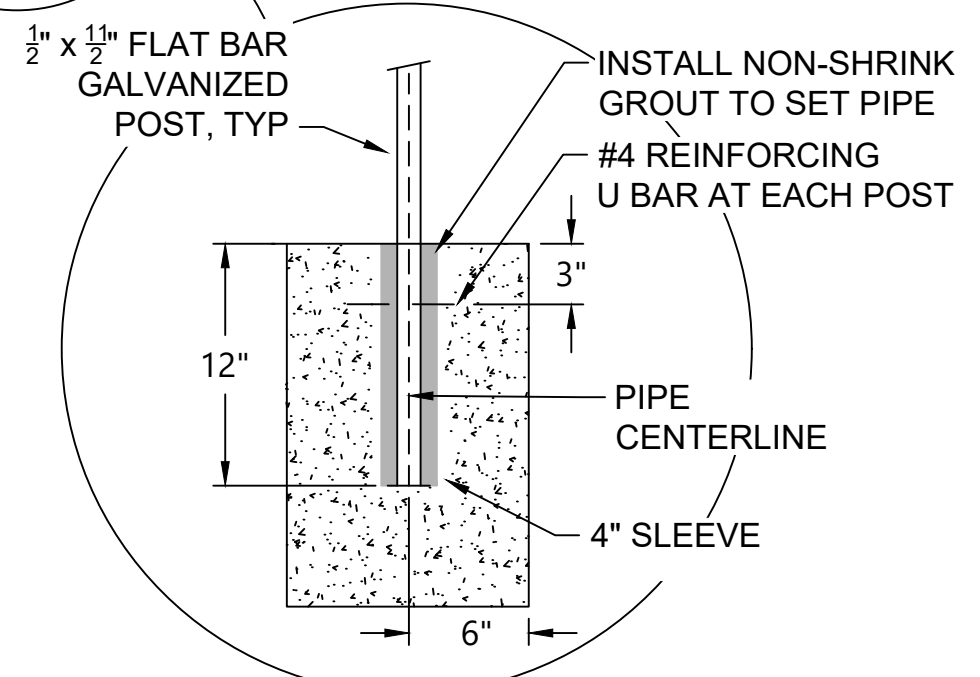
- NOTES:
- SEE GRADING PLAN FOR TOP OF STAIR AND BOTTOM OF STAIR ELEVATION AND TREAD AND RISER COUNT
  - PLACE TWO MAN ROCK 12" MAX DISTANCE FROM GRANITE STEP TO ACCOMMODATE HANDRAIL FOOTING ONLY. PLACE TWO MAN ROCK AT 1" MIN AND 4" MAX ALONG GRANITE STEPS IN ALL OTHER AREAS.

**1 STONE STAIRS**  
SCALE: NOT TO SCALE

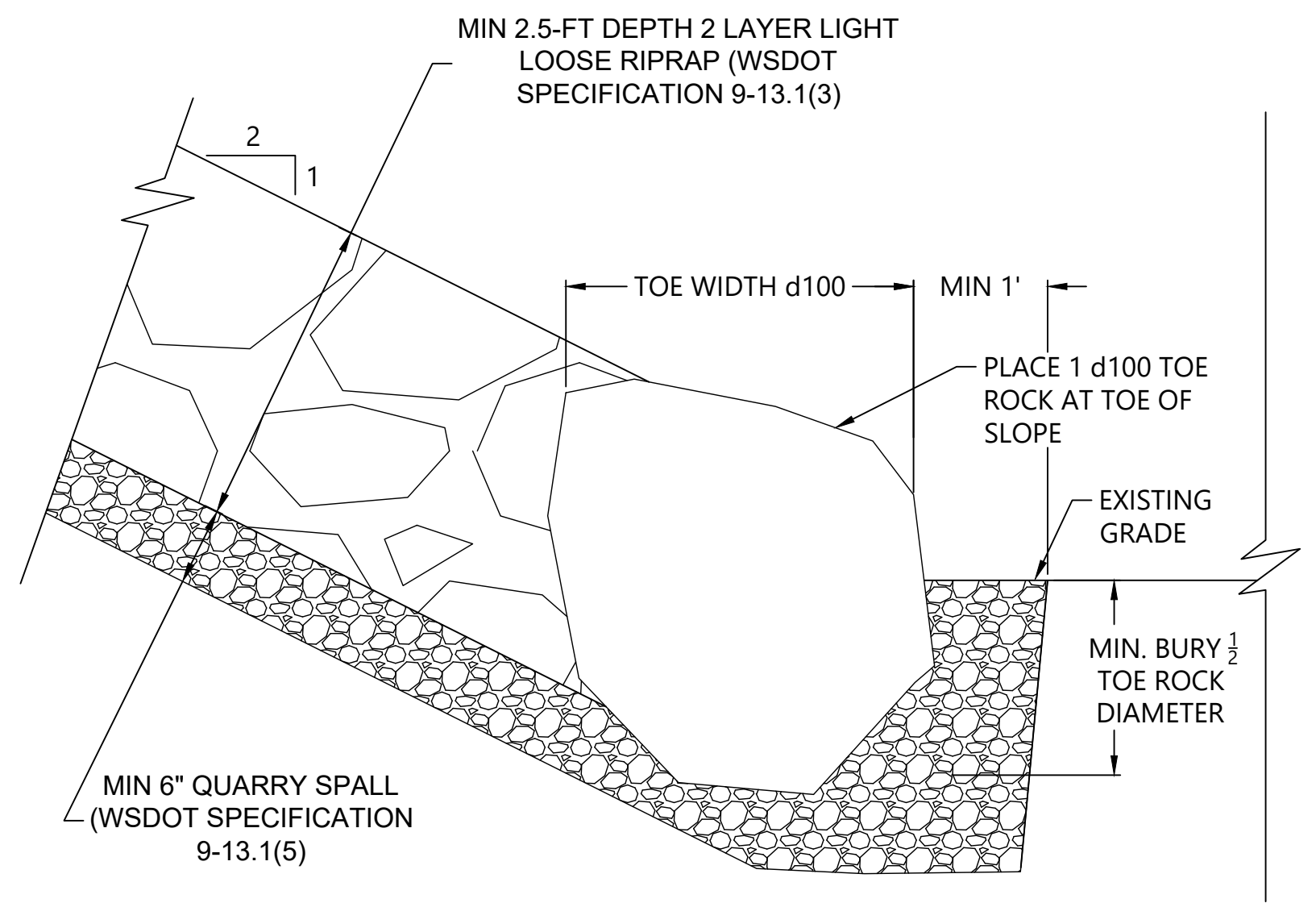


- NOTES:
- GRIND WELD JOINT SMOOTH.
  - HOT DIP GALV. AFTER FABRICATION
  - HANDRAIL TO FOLLOW ALIGNMENT SHOWN ON PLANS.
  - PROVIDE SHOP DRAWINGS.
  - FIELD MEASURE POST LOCATIONS AND FABRICATE HANDRAILING FOLLOWING STAIR INSTALLATION.
  - EMBED HANDRAIL FOOTING DIRECTLY ADJACENT TO STEP.
  - INSTALL 2 MAN BASALT EDGE STONE AFTER HANDRAIL INSTALLATION.
  - REFER TO STRUCTURAL PLANS FOR HANDRAIL AT BEACH ACCESS STEPS (SOUTH BEACH).

**2 HANDRAIL AT STONE STAIRS**  
SCALE: NOT TO SCALE



**POST EMBEDMENT DETAIL**  
NOT TO SCALE



**3 ROCK REVETMENT**  
SCALE: 1" = 1.0'

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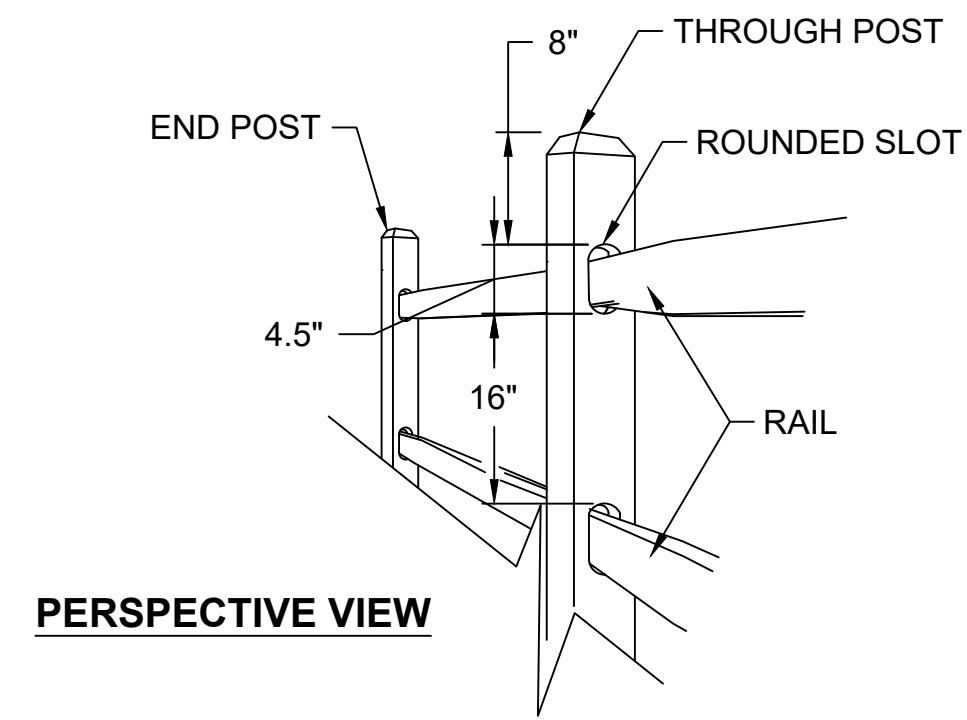
**LUTHER BURBANK PARK  
WATERFRONT IMPROVEMENTS**

**CONSTRUCTION MATERIALS DETAILS  
(SHEET 3 OF 4)**

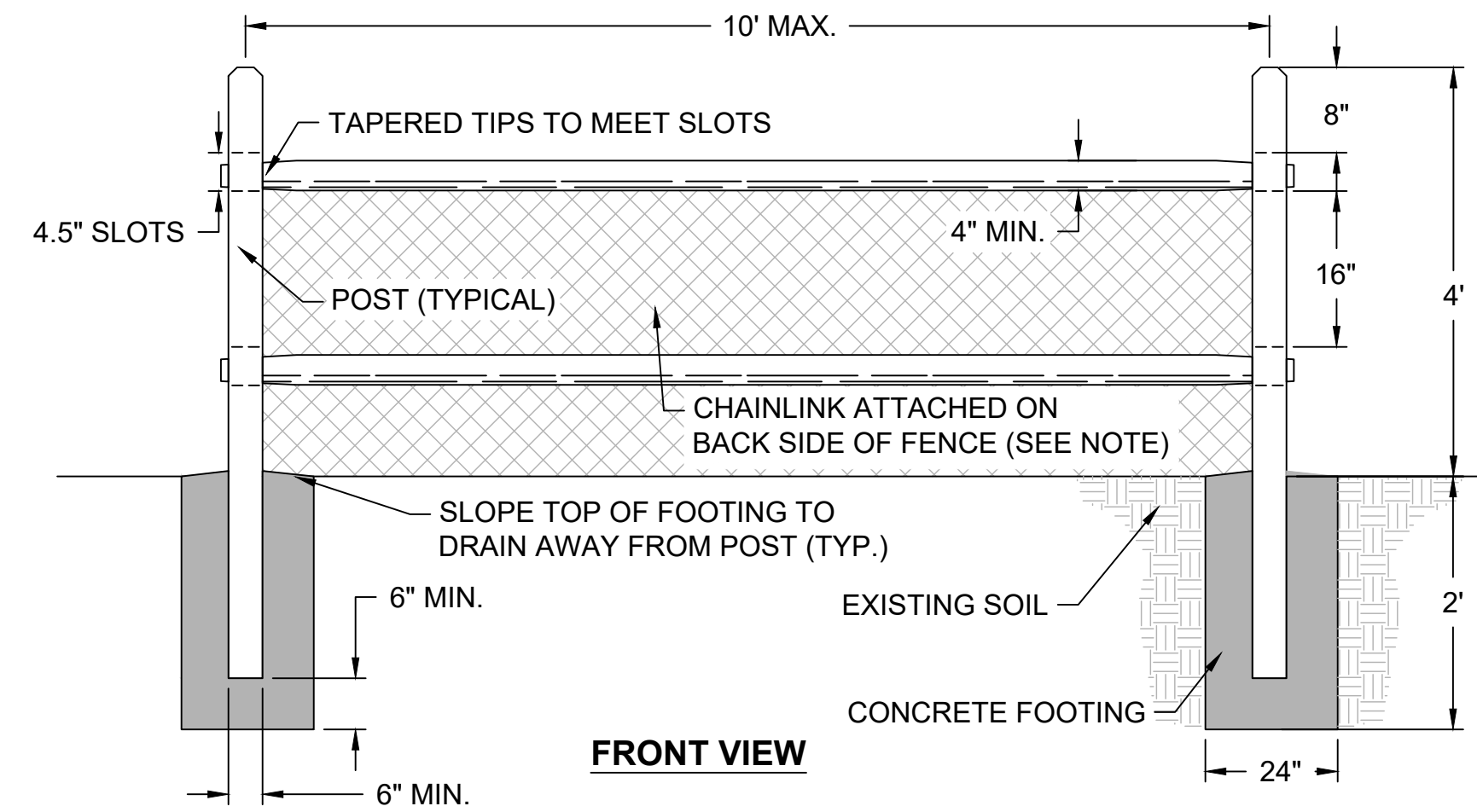
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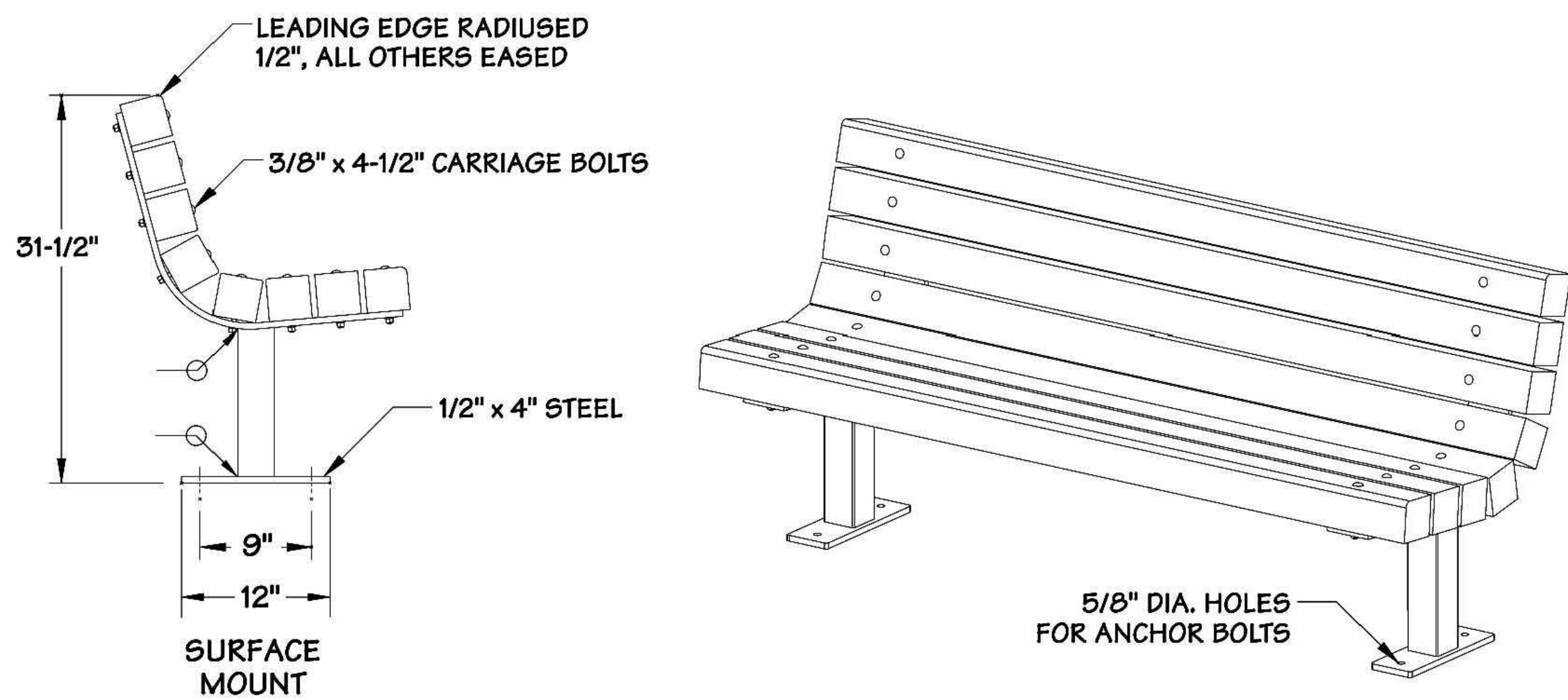




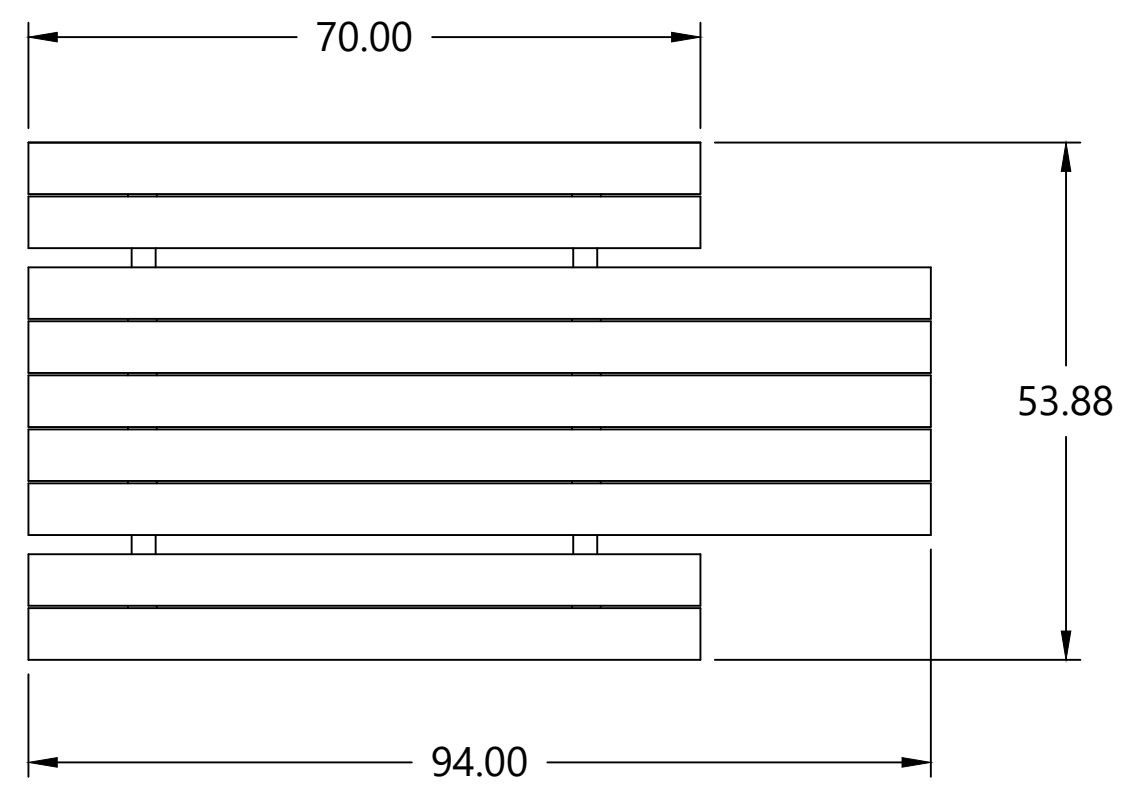
- NOTES:
1. RAIL SHALL NOT CONTINUE THROUGH END POST.
  2. STAPLE CHAINLINK FENCING TO POSTS USING 1 1/4" FENCING STAPLES, MAXIMUM SPACING BETWEEN STAPLES ON POST 12".
  3. BURY BOTTOM EDGE OF CHAINLINK A MINIMUM OF 4-INCHES BELOW GRADE.
  4. CHAINLINK SHALL BE BLACK VINYL-COATED 9 GAUGE.



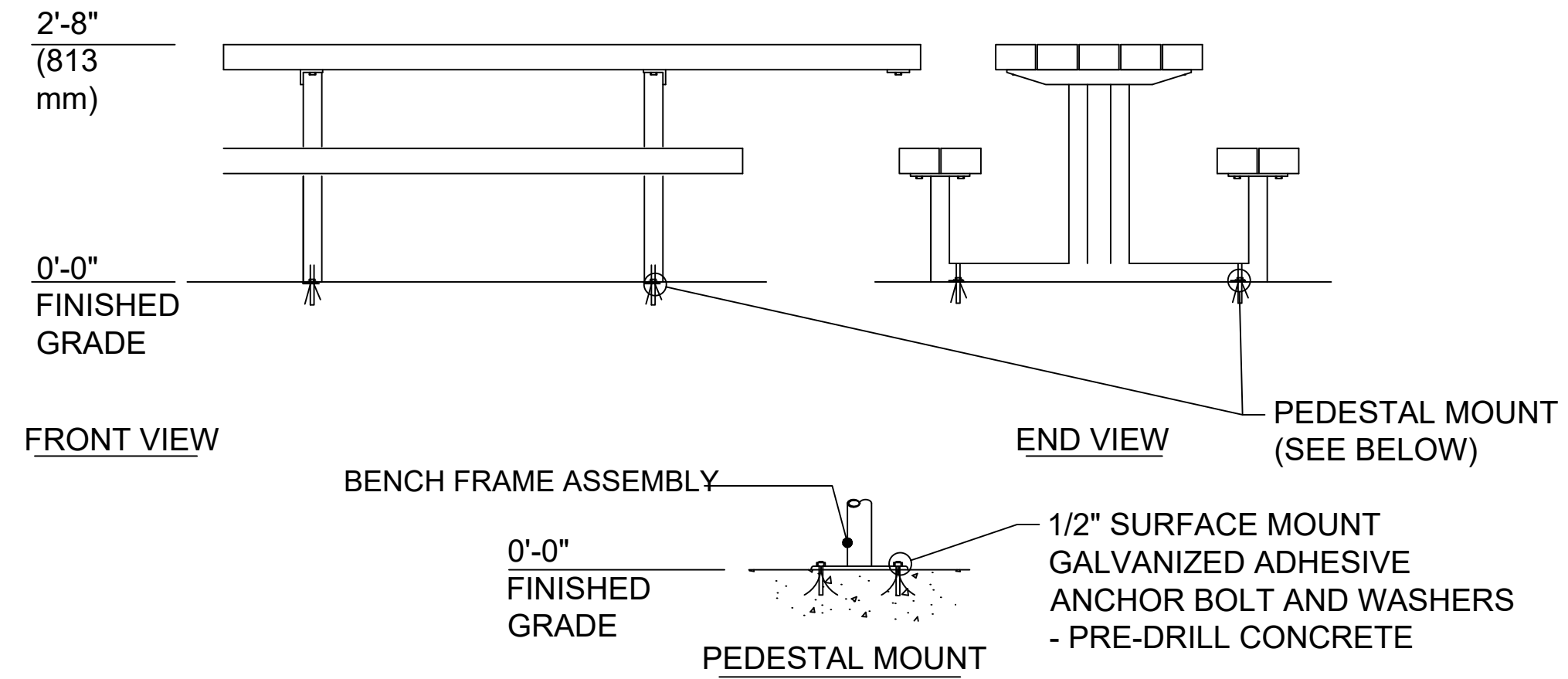
1 SPLIT RAIL FENCE  
CM-010 SCALE: NTS



3 BENCHES  
CM-010 SCALE: NTS



TOP VIEW



FRONT VIEW

END VIEW

2 PICNIC TABLES  
CM-010 SCALE: NTS

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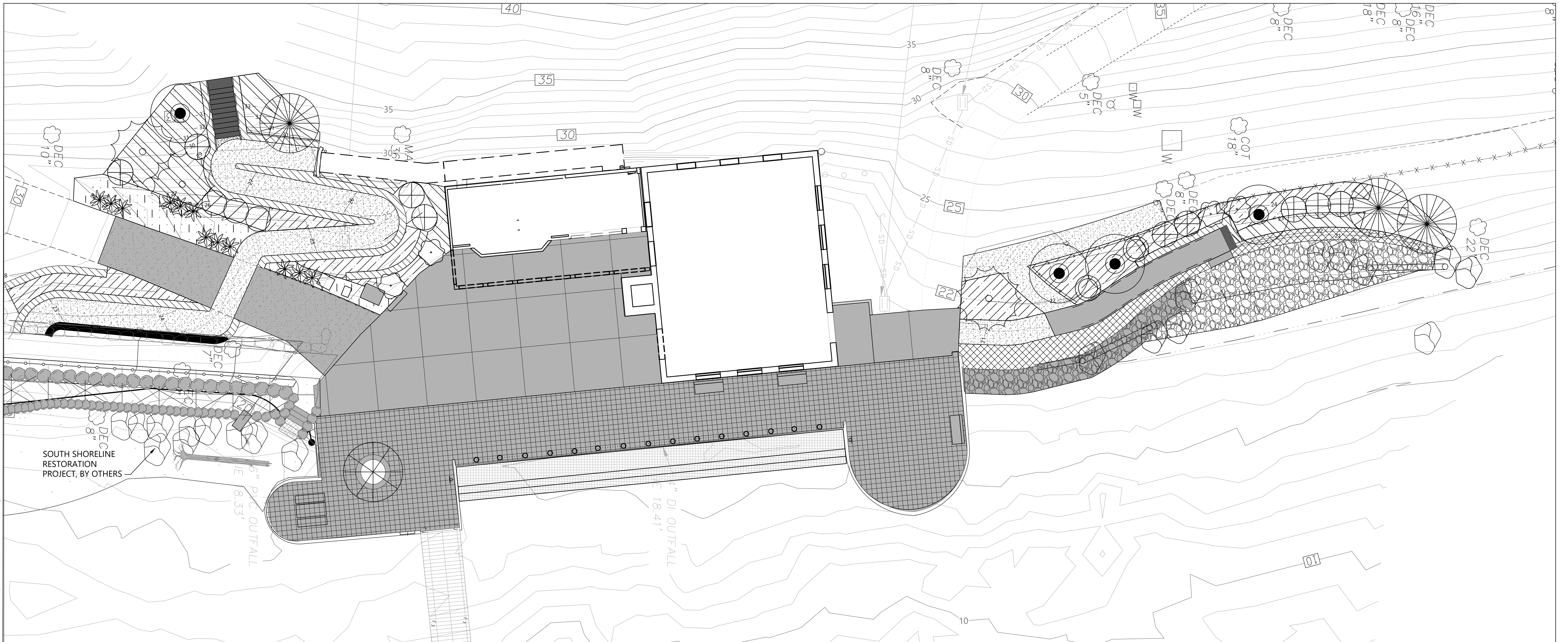


LUTHER BURBANK PARK  
WATERFRONT IMPROVEMENTS

CONSTRUCTION MATERIALS DETAILS  
(SHEET 4 OF 4)

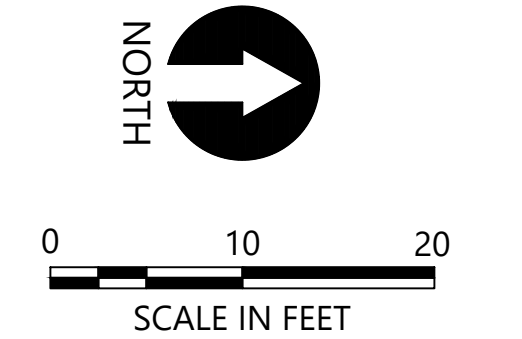
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60% SUBMITTAL



**LEGEND:**

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



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

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**LUTHER BURBANK PARK  
 WATERFRONT IMPROVEMENTS**

PLANTING PLAN

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DESIGN: AS	SCALE: AS NOTED
CHECKED: AS/DR	DATE: 10/07/2022
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SHEET NO. 37	OF 56

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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	1 2 3 L-012 L-012 L-012	
SWAMP OAK	QUERCUS PALUSTRIS	2" CAL	AS SHOWN	1		
VINE MAPLE	ACER CIRCINATUM	5 GAL	AS SHOWN	9		
HIGH SHRUBS						
INDIAN PLUM	OEMLERIA CERASIFORMIS	2 GAL	AS SHOWN		5 6 L-012 L-012	
MOCK ORANGE	PHILADELPHUS LEWISII	2 GAL	AS SHOWN			
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.		5 6 L-012 L-012	
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.		4 6 L-012 L-012	
OREGON GRAPE	MAHONIA NERVOSA	1 GAL	3' O.C.			
SHRUBS/GROUNDCOVERS - STORMWATER CONVEYANCE AREA						
RED OSIER DOGWOOD	CORNUS SERICEA	1 GAL	AS SHOWN		4 5 6 L-012 L-012 L-012	
LADY FERN	ATHYRIUM FILIX FEMINA	1 GAL	AS SHOWN			
SEED MIX - STORMWATER CONVEYANCE AREA						

PLANT QUANTITIES WILL BE PROVIDED AT 90%



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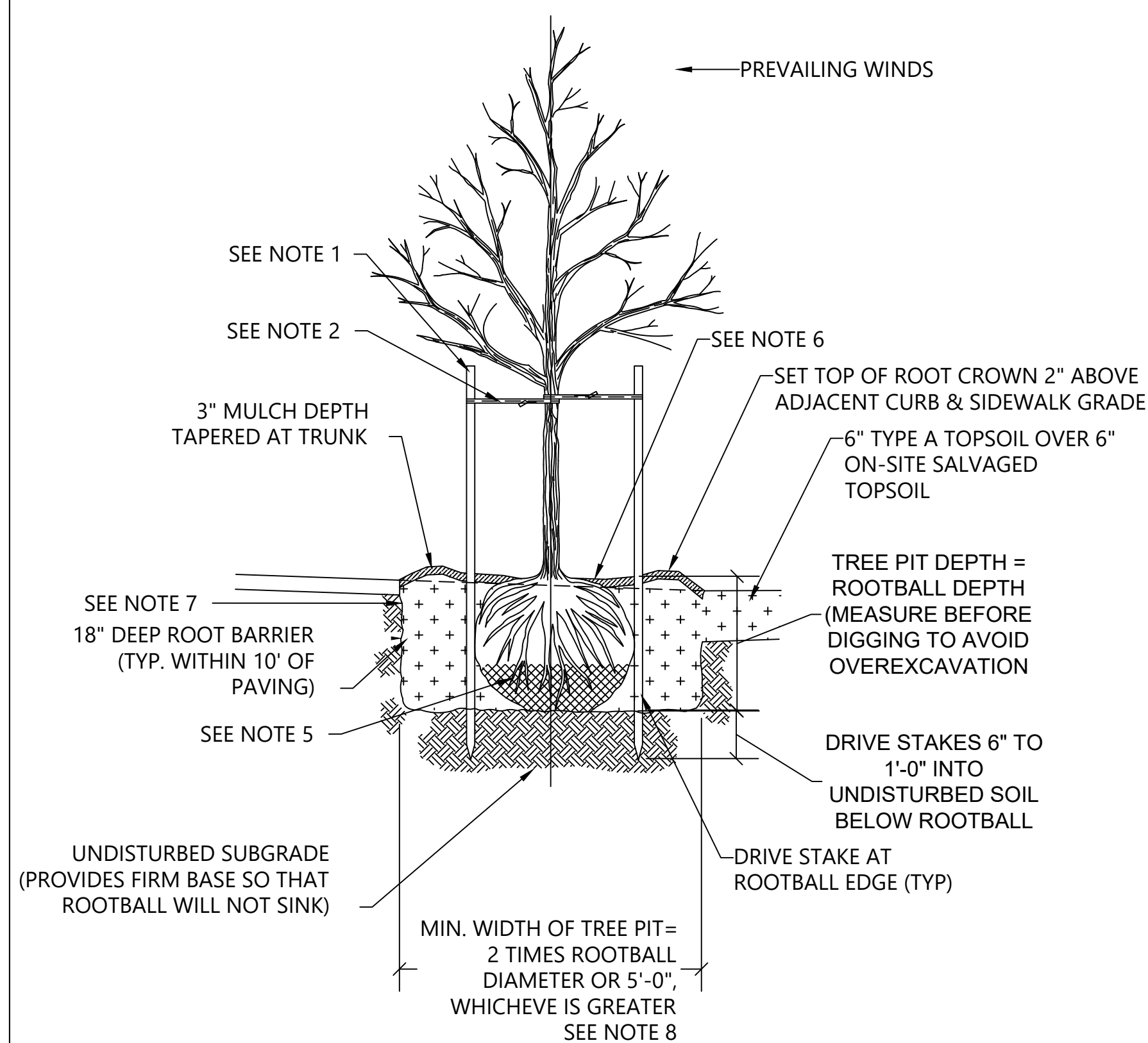


LUTHER BURBANK PARK  
WATERFRONT IMPROVEMENTS

PLANT SCHEDULE

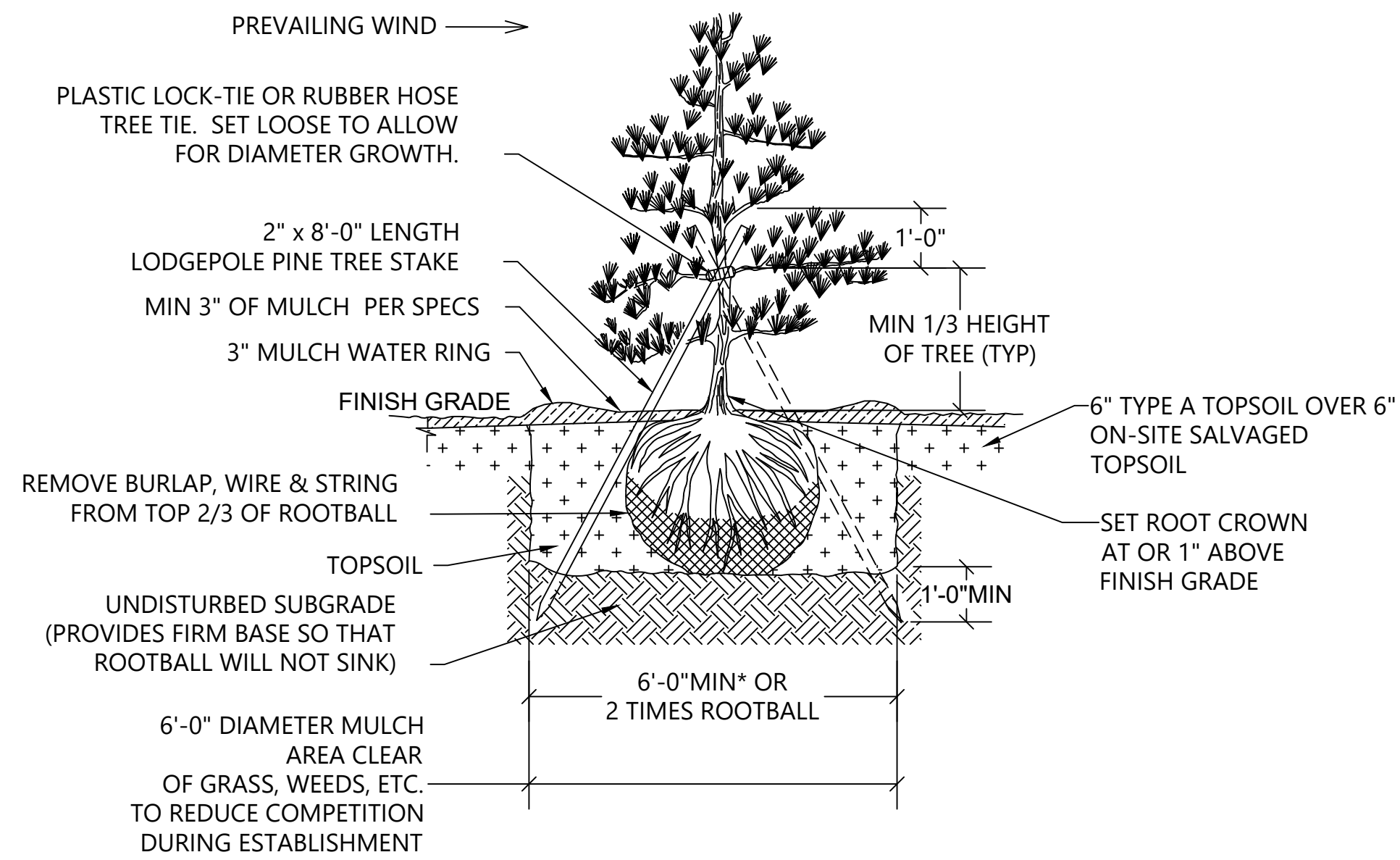
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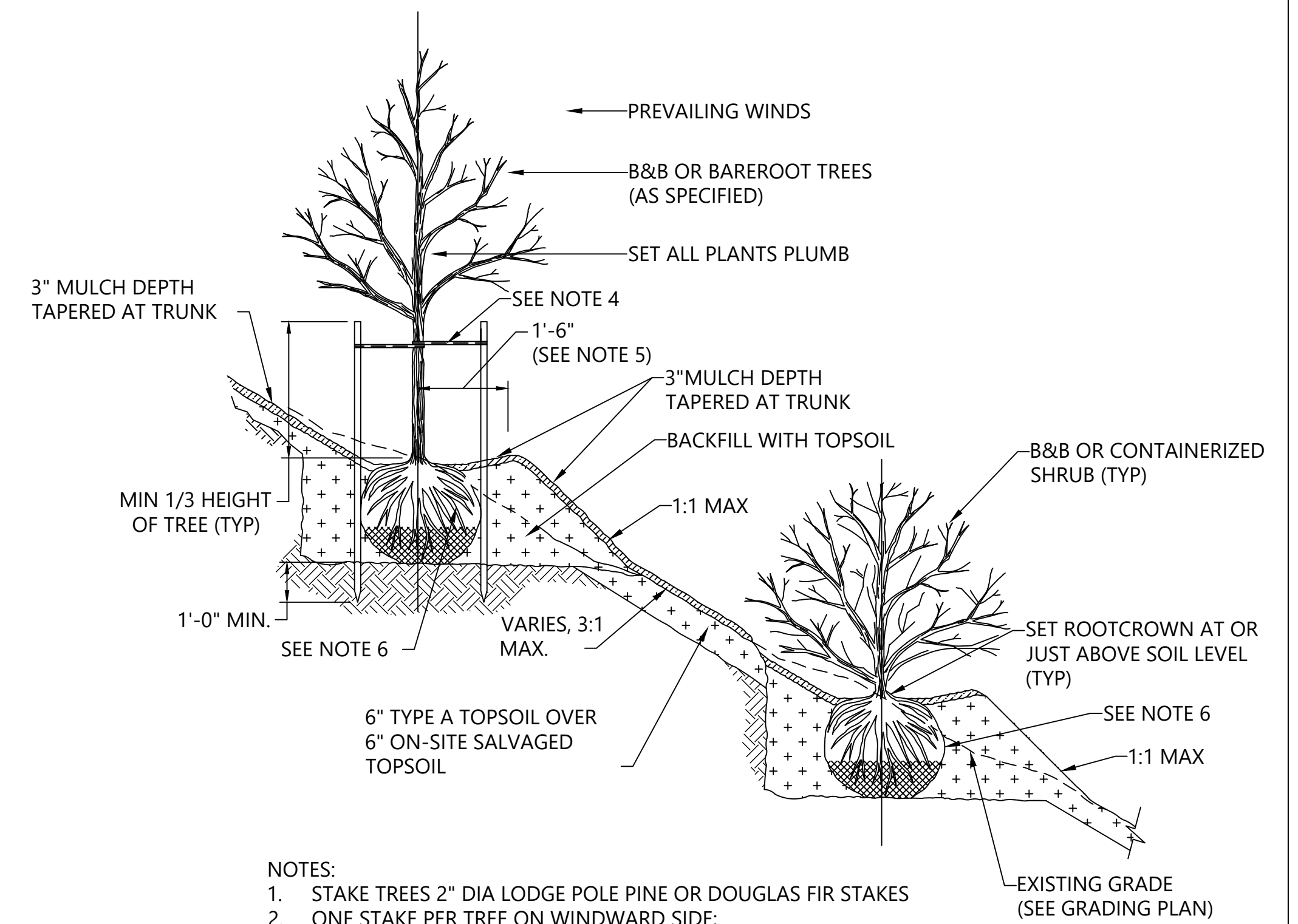


- NOTES:
1. STAKE TREES WITH (2) 2" DIAMETER (8'-0" LENGTH) LODGE POLE PINE OR DOUGLAS FIR STAKES
  2. CHAINLOCK TREE TIE. LOOP EACH TIE AROUND TREE LOOSELY TO PROVIDE 1" SLACK FOR DIAMETER GROWTH.
  3. ONE STAKE PER TREE ON WINDWARD SIDE;
  4. SECOND STAKE ON LEEWARD SIDE
  5. REMOVE ALL WIRE AND STRING. REMOVE TOP 2/3 OF BURLAP
  6. SHAPE SOIL TO PROVIDE 3' DIAMETER OR ROOTBALL DIAMETER, WHICHEVER IS GREATER, WATERING RING.
  7. ROUGHEN SIDES OF PLANTING HOLE MAXIMIZE EXCAVATED AREA WITHOUT UNDERMINING ADJACENT PAVING/CURB
  8. MULCH AREA TO BE CLEAR OF GRASS, WEEDS, ETC. TO REDUCE COMPETITION WITH TREE ROOTS

**1 DECIDUOUS TREE PLANTING & STAKING**  
SCALE: NTS

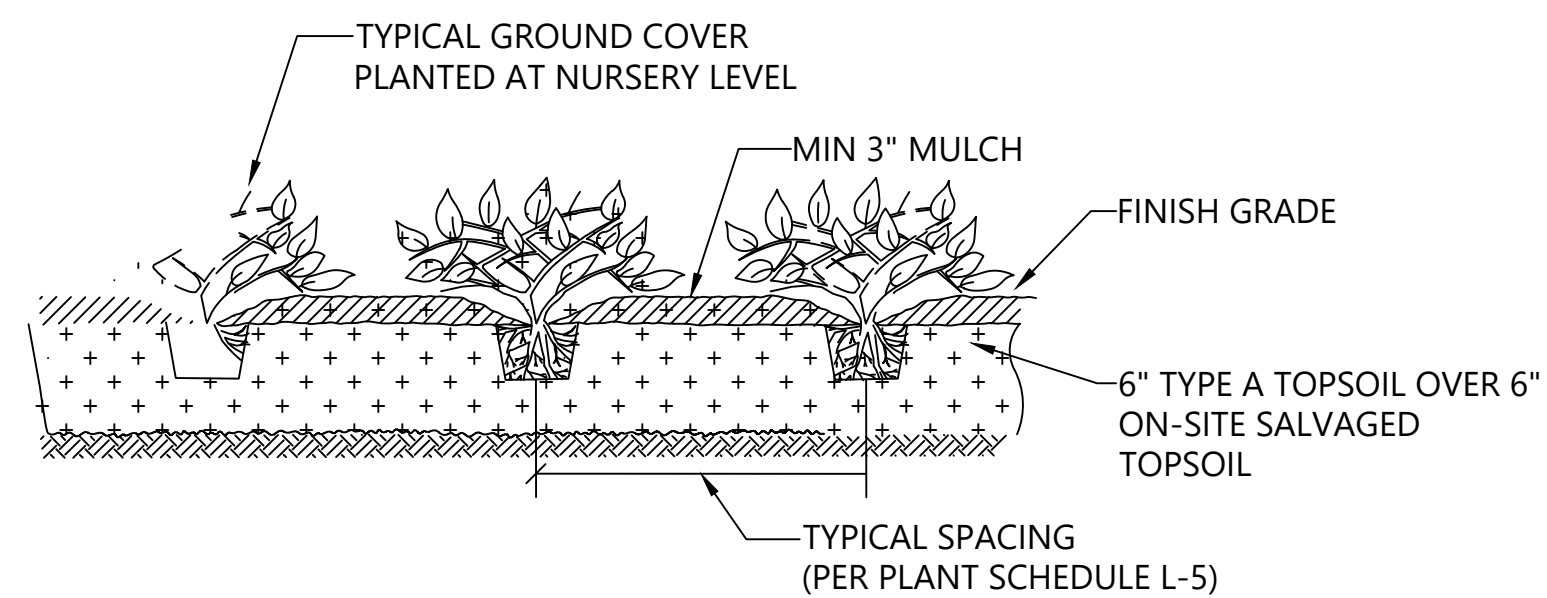


**2 CONIFEROUS TREE PLANTING & STAKING**  
SCALE: NTS

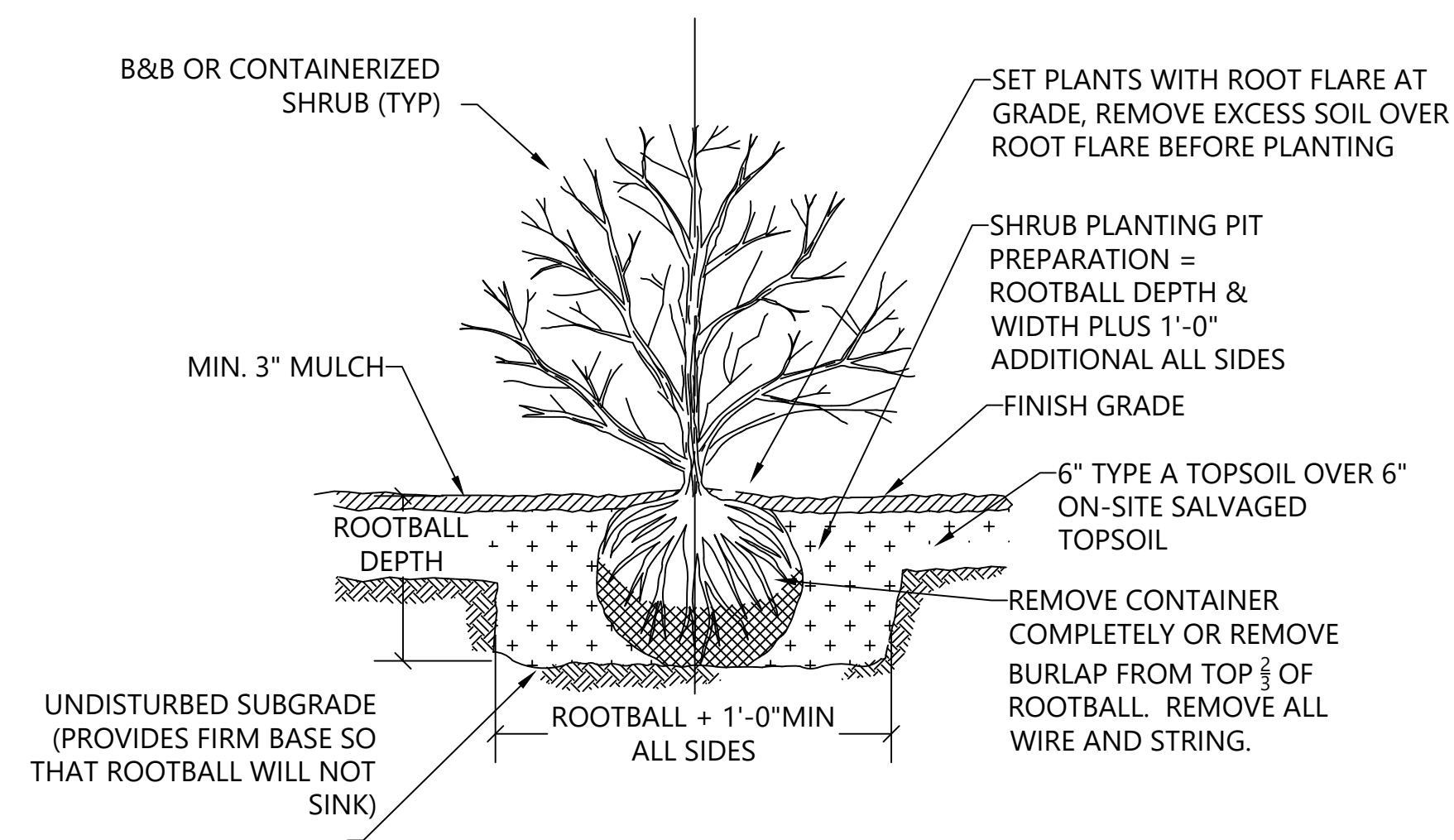


- NOTES:
1. STAKE TREES 2" DIA LODGE POLE PINE OR DOUGLAS FIR STAKES
  2. ONE STAKE PER TREE ON WINDWARD SIDE;
  3. SECOND STAKE ON LEEWARD SIDE
- SLOPES STEEPER THAN 3:1 MAY REQUIRE AN APPROVED EMBANKMENT STABILIZATION SYSTEM TO CREATE A LEVEL TREE PIT SUCH AS:
- ROCK FACING
  - PRECAST CONCRETE WALL UNITS
  - TIMBER WALL
  - MANUFACTURED SLOPE RETENTION UNITS
4. CHAINLOCK TREE TIE. LOOP EACH TIE AROUND TREE LOOSELY TO PROVIDE 1" SLACK FOR DIAMETER GROWTH.
  5. SHAPE SOIL TO PROVIDE 3' DIAMETER OR ROOTBALL DIAMETER, WHICHEVER IS GREATER, WATERING RING.
  6. REMOVE ALL WIRE AND STRING. REMOVE TOP 2/3 OF BURLAP.

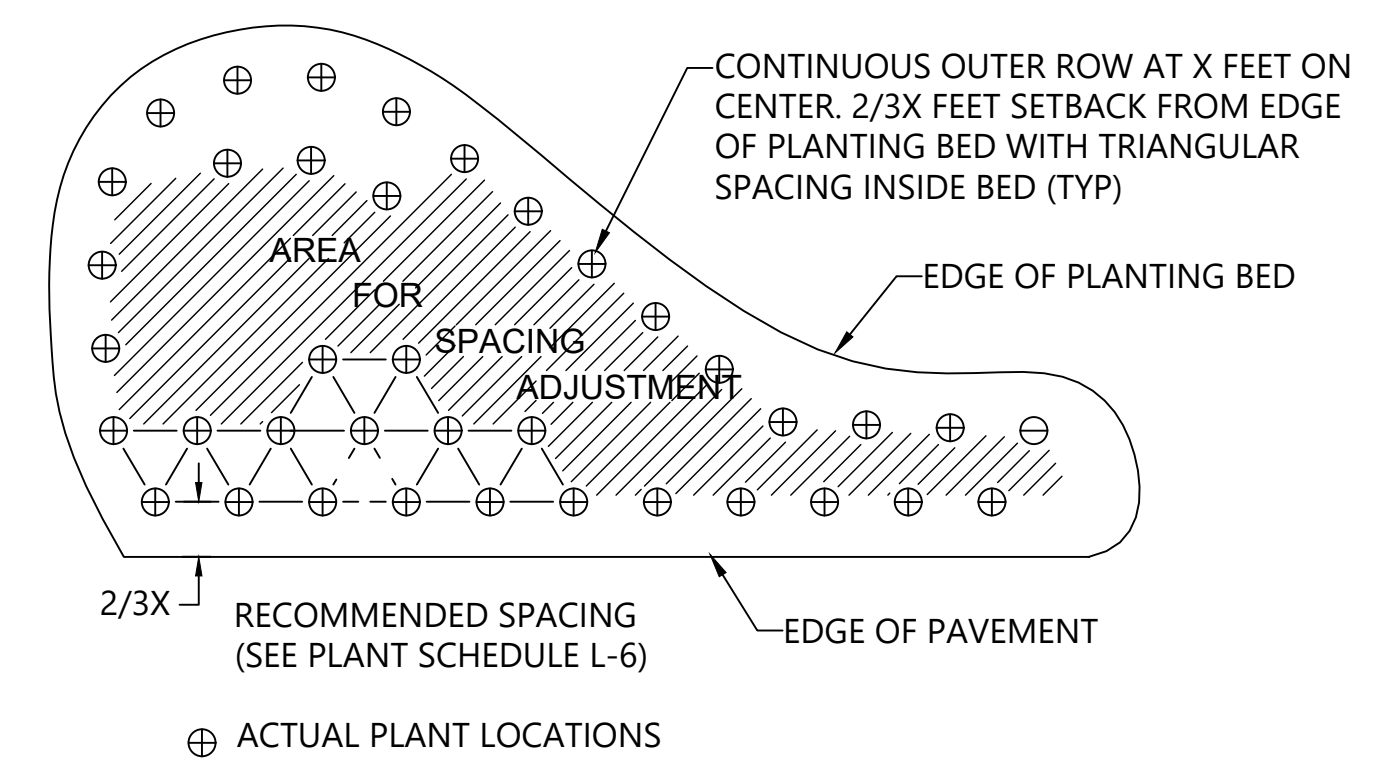
**3 PLANTING ON SLOPES**  
SCALE: NTS



**4 GROUNDCOVER, PERENNIAL, AND ORNAMENTAL GRASS PLANTING**  
SCALE: NTS



**5 SHRUB PLANTING**  
SCALE: NTS



- NOTES: APPLY PLANTING PATTERN FOR SHRUB, GROUNDCOVER, GRASS, AND PERENNIAL PLANTINGS

**6 PLANTING PATTERN**  
SCALE: NTS

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LUTHER BURBANK PARK  
WATERFRONT IMPROVEMENTS

PLANTING DETAILS

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DESIGN: AS	SCALE: AS NOTED
CHECKED: AS/DR	DATE: 10/07/2022
DRAWING NO.	<b>L-012</b>
SHEET NO. 39	OF 56

60% SUBMITTAL

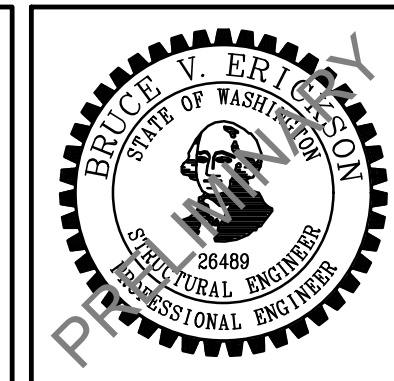




CAD USER: RICKT PLOT DATE: Apr 12, 2023-11:05am  
PATH: V:\2000291 (Luther Burbank Pier Repairs)\02\_Design (v2019)\LBPR\_S-003.dwg



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**LUTHER BURBANK PARK**  
WATERFRONT IMPROVEMENTS

---

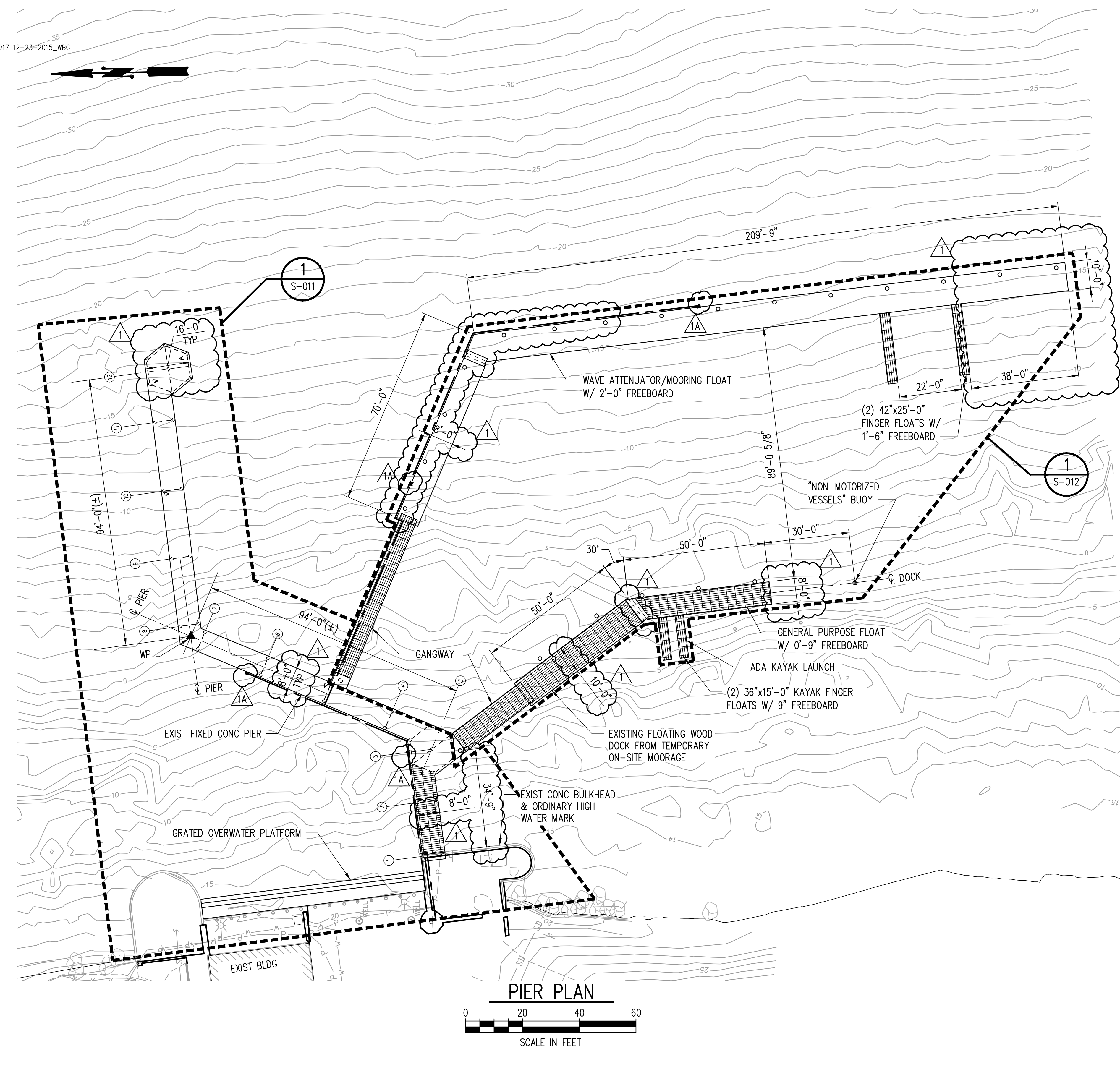
STATEMENT OF SPECIAL INSPECTIONS

DRAWN: RRT	PROJECT NO.: 2200248
DESIGN: WBC	SCALE: AS SHOWN
CHECKED: AKB	DATE: 10/7/2022
DRAWING NO.	<b>S-003</b>
SHEET NO.	42 OF 56



60% SUBMITTAL

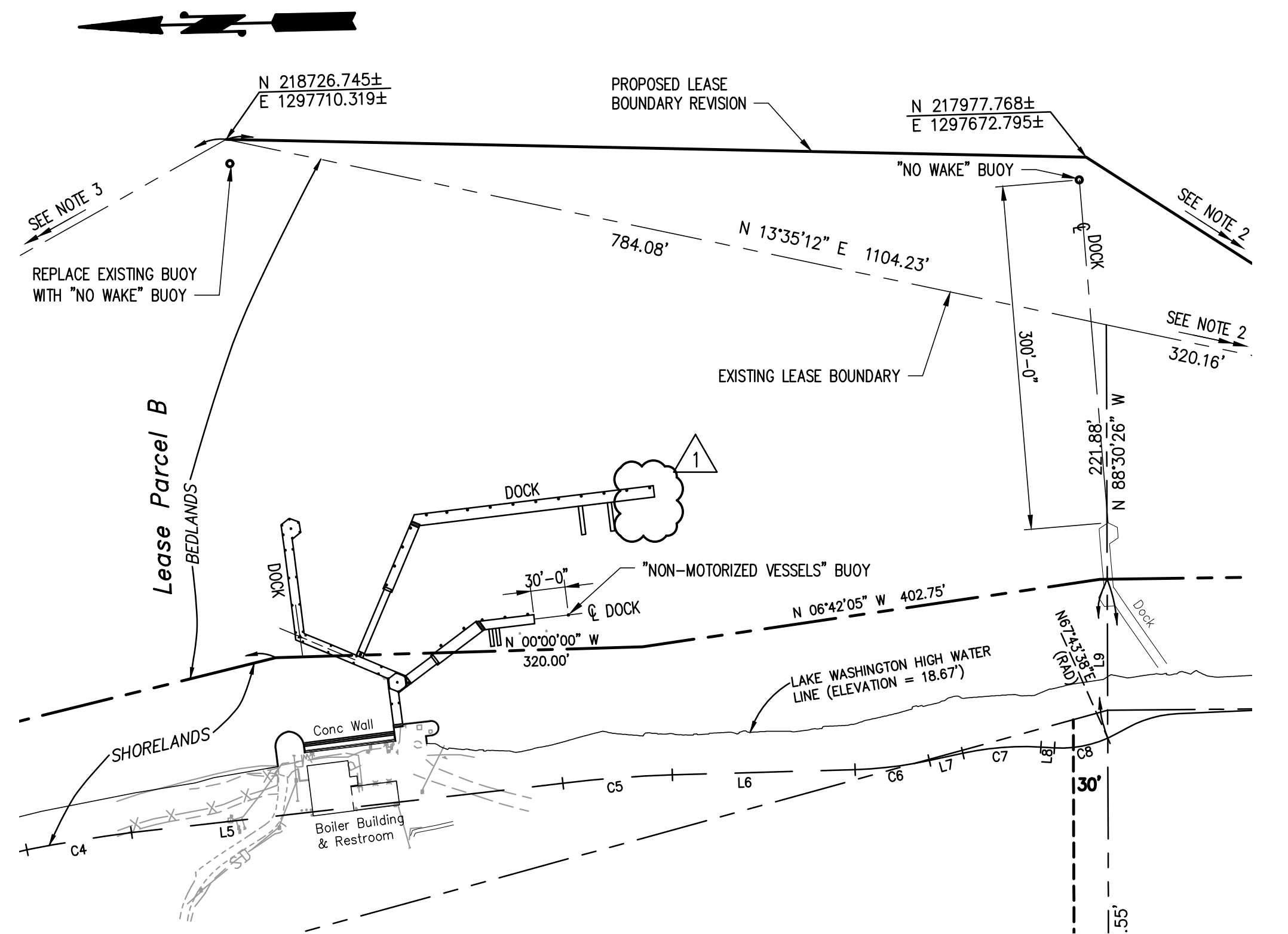
Xrefs:  
 xLBPR-BDR22x34  
 42000291 TOPOBM  
 xLBPR-PIER  
 DNR Lease No 20-A09917 12-23-2015\_WBC



**PIER PLAN**  
 SCALE IN FEET

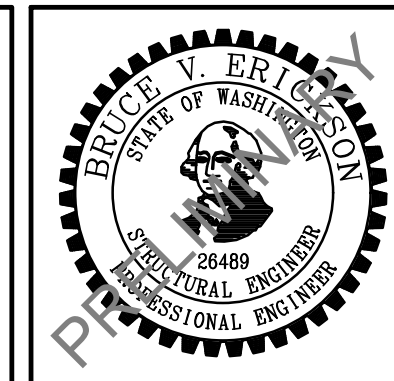
**NOTES:**

1. PROPOSED IMPROVEMENTS OVERWATER COVERAGE: ±4425 SF.
2. EXTENDS TO EXISTING BOUNDARY CORNER AT N 217653.411, E 1297450.919.
3. EXTENDS TO EXISTING BOUNDARY CORNER AT N 220320.192, E 1296873.931.



**BUOY PLAN**  
 SCALE IN FEET

CAD USER: RICKT PLOT DATE: Apr 12, 2023-11:40am  
 PATH: V:\2000291 (Luther Burbank Pier Repairs)\02\_Design (v2019)\LBPR\_S-010.dwg



NO.	DATE	BY	REVISION
1	4/14/2023	WBC	LAND USE PERMIT REVISION
1A	4/14/2023	WBC	MIFD COMMENT REVISION



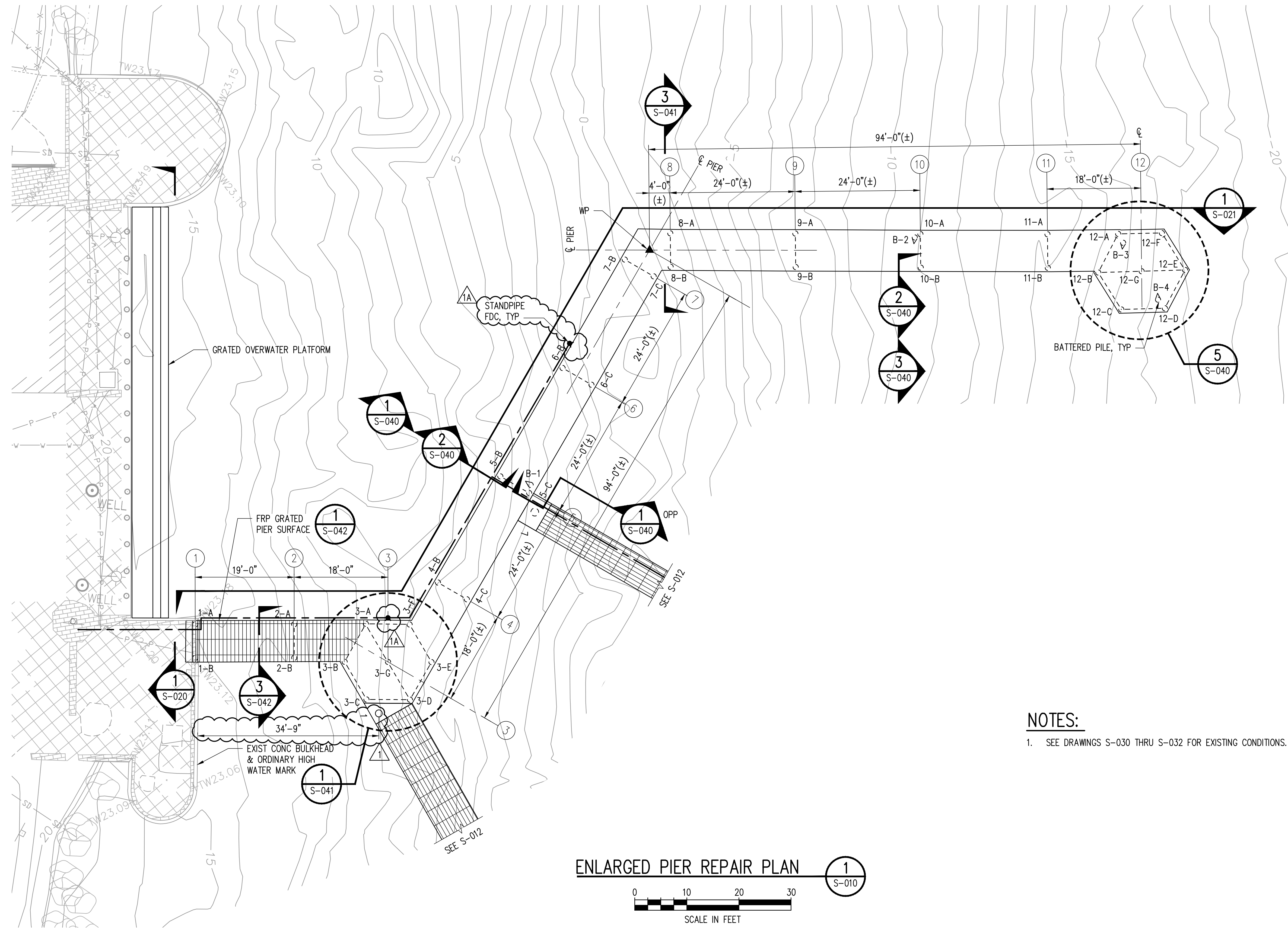
**LUTHER BURBANK PARK  
 WATERFRONT IMPROVEMENTS**

PIER IMPROVEMENT PLAN

DRAWN: RRT	PROJECT NO.: 2200248
DESIGN: WBC	SCALE: AS SHOWN
CHECKED: AKB	DATE: 10/7/2022
DRAWING NO.	<b>S-010</b>
SHEET NO.	43 OF 56

60% SUBMITTAL



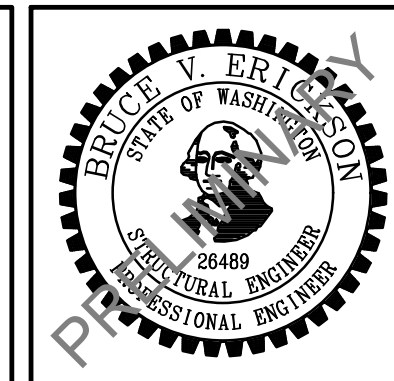


**NOTES:**  
 1. SEE DRAWINGS S-030 THRU S-032 FOR EXISTING CONDITIONS.

**ENLARGED PIER REPAIR PLAN** 1  
 S-010

0 10 20 30  
 SCALE IN FEET

CAD USER: RICKT PLOT DATE: Apr 12, 2023-02:00pm  
 PATH: V:\2000291 (Luther Burbank Pier Repairs)\02\_Design (v2019)\LBPR\_S-011.dwg



NO.	DATE	BY	REVISION
1	4/14/2023	WBC	LAND USE PERMIT REVISION
1A	4/14/2023	WBC	MIFD COMMENT REVISION



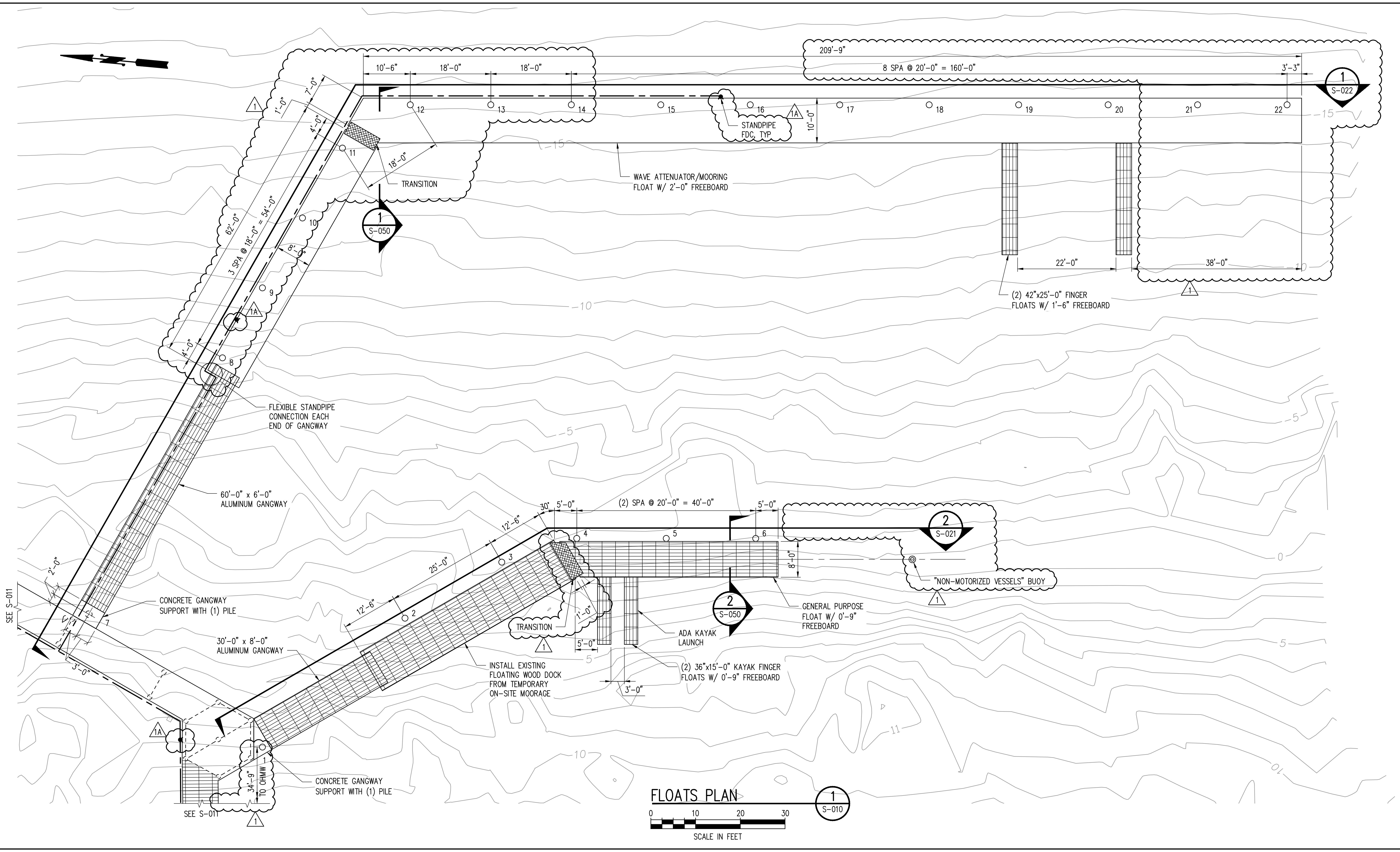
**LUTHER BURBANK PARK**  
 WATERFRONT IMPROVEMENTS

ENLARGED PIER REPAIR PLAN

DRAWN: RRT	PROJECT NO.: 2200248
DESIGN: WBC	SCALE: AS SHOWN
CHECKED: AKB	DATE: 10/7/2022
DRAWING NO.	<b>S-011</b>
SHEET NO.	44 OF 56

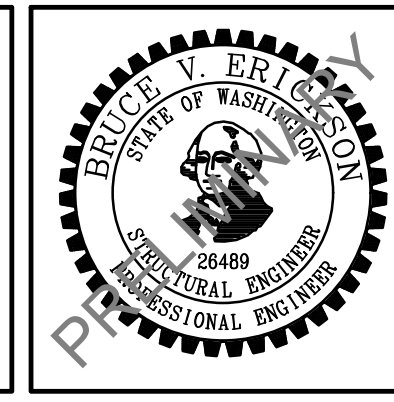
60% SUBMITTAL

Xrefs:  
 xLBPR-BDR22x34  
 42000291\_TOP0BM  
 xLBPR-PIER



**FLOATS PLAN**  
 0 10 20 30  
 SCALE IN FEET

CAD USER: RICKI PLOT DATE: Apr 12, 2023-01:52pm  
 PATH: V:\2000291 (Luther Burbank Pier Repairs)\02\_Design (v2019)\LBPR\_S-012.dwg



NO.	DATE	BY	REVISION
1	4/14/2023	WBC	LAND USE PERMIT REVISION
1A	4/14/2023	WBC	MIFD COMMENT REVISION

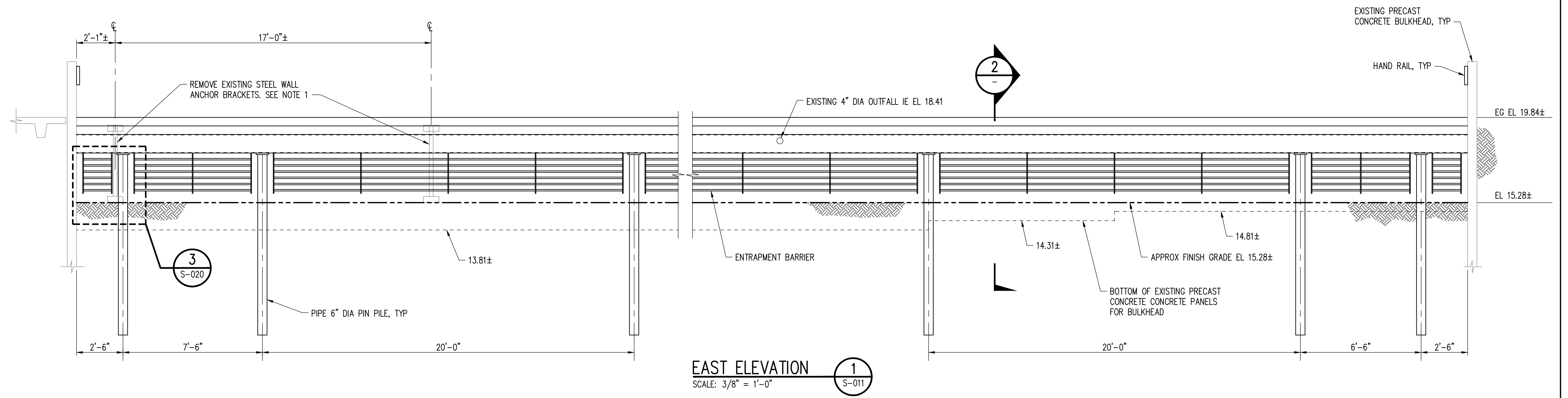


**LUTHER BURBANK PARK  
 WATERFRONT IMPROVEMENTS**

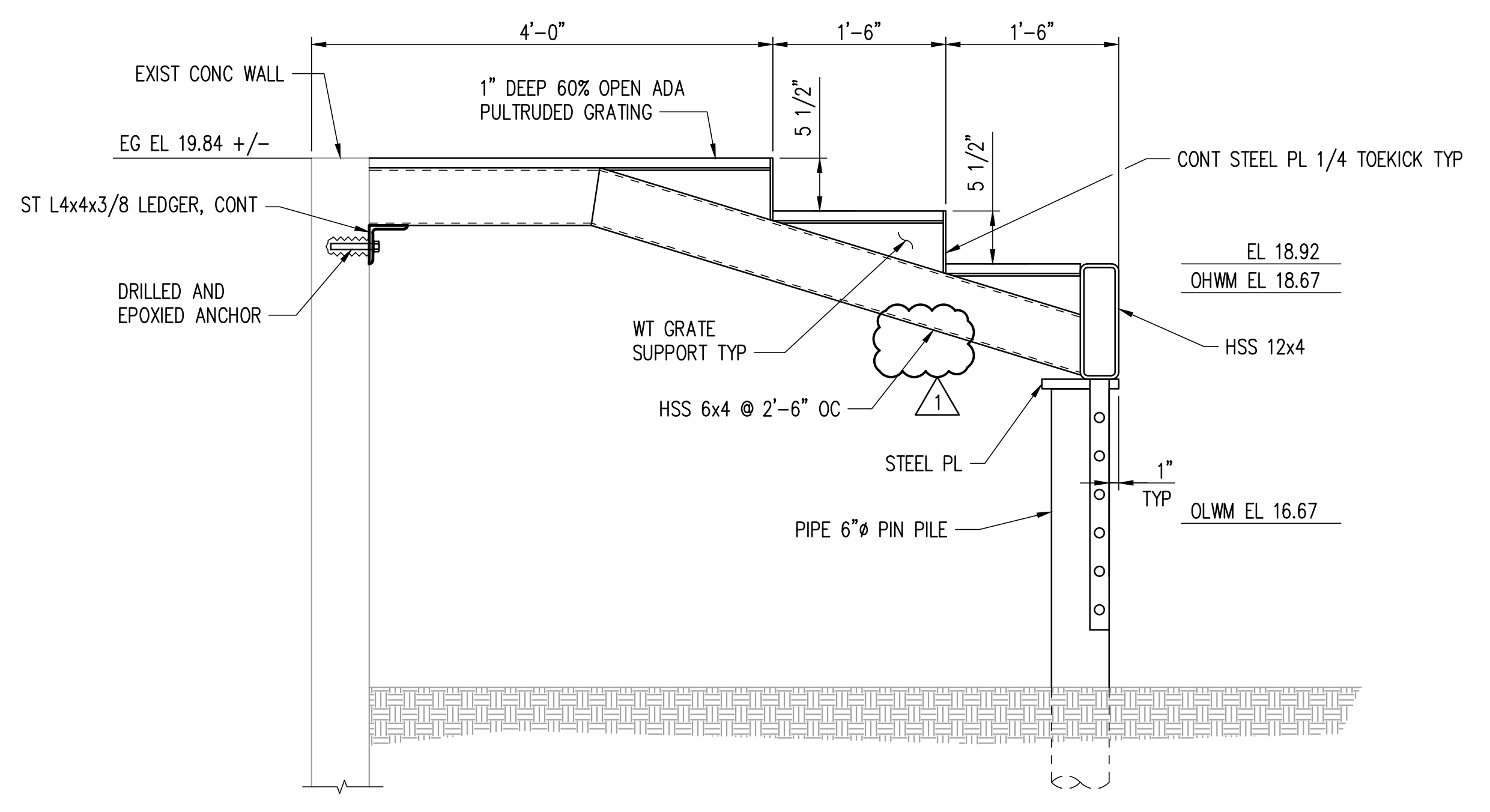
FLOATS PLAN

DRAWN: RRT	PROJECT NO.: 2200248
DESIGN: WBC	SCALE: AS SHOWN
CHECKED: AKB	DATE: 10/7/2022
DRAWING NO.	<b>S-012</b>
SHEET NO.	45 OF 56

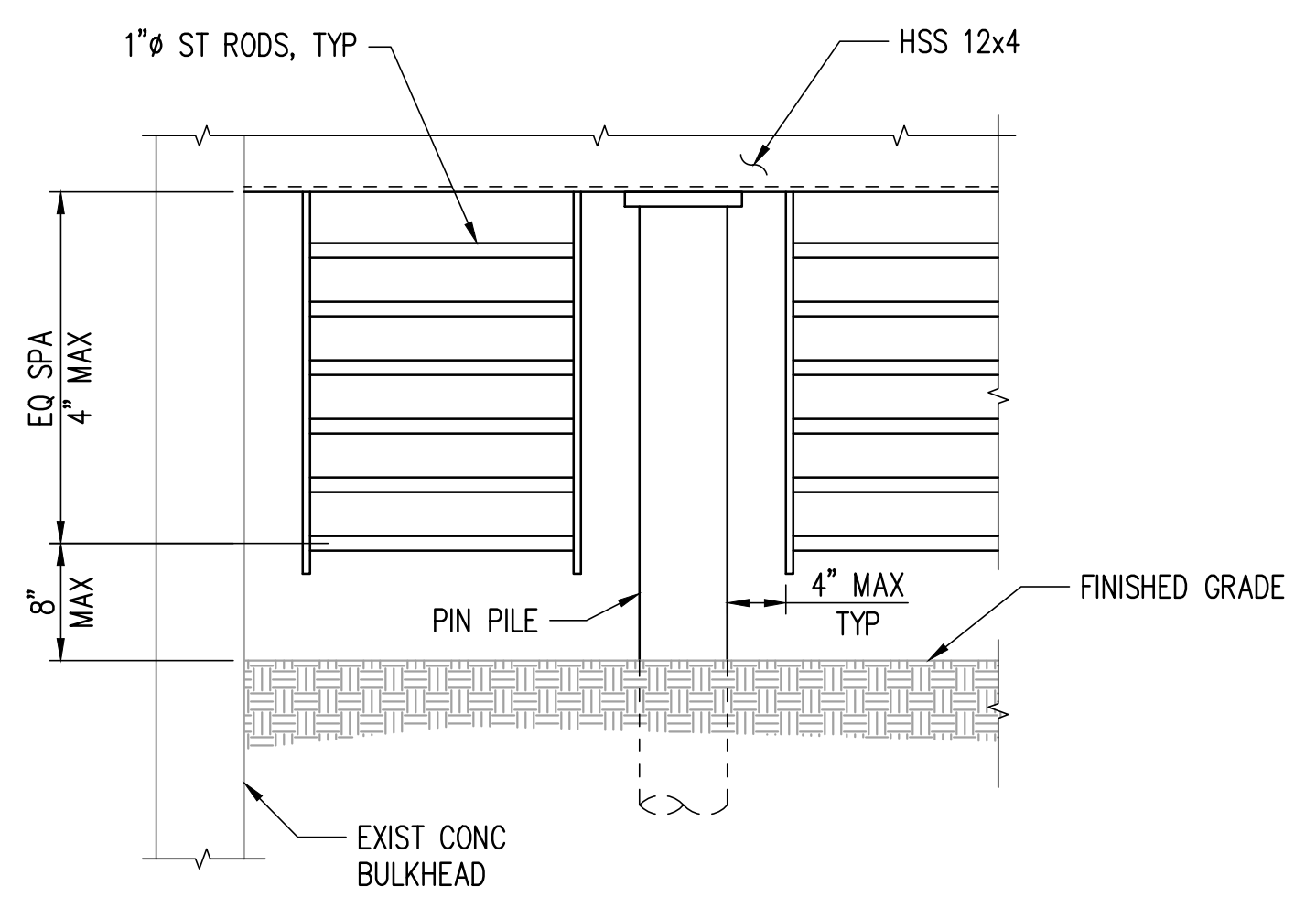
60% SUBMITTAL



**EAST ELEVATION**  
SCALE: 3/8" = 1'-0"  
**1**  
S-011



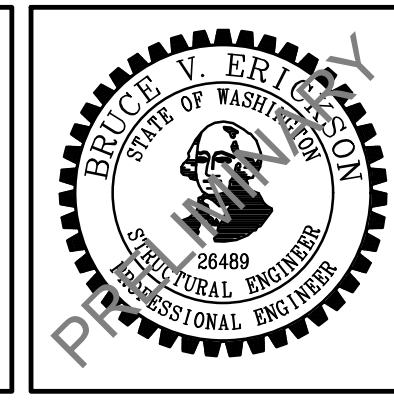
**SECTION**  
SCALE: 1" = 1'-0"  
**2**



**DETAIL**  
SCALE: 1" = 1'-0"  
**3**

- NOTES:**
- EXISTING BRACKETS ARE ATTACHED TO WALL W/ (3) 5/8"Ø STEEL BOLTS. REMOVE BRACKET AND CUT AND GRIND BOLTS FLUSH TO WALL SURFACE.

CAD USER: RICKT PLOT DATE: Apr 12, 2023-01: 44pm  
PATH: V:\2000291 (Luther Burbank Pier Repairs)\02\_Design (v2019)\LBPR\_S-020.dwg



NO.	DATE	BY	REVISION
1	4/14/2023	WBC	LAND USE PERMIT REVISION
1A	4/14/2023	WBC	MIFD COMMENT REVISION

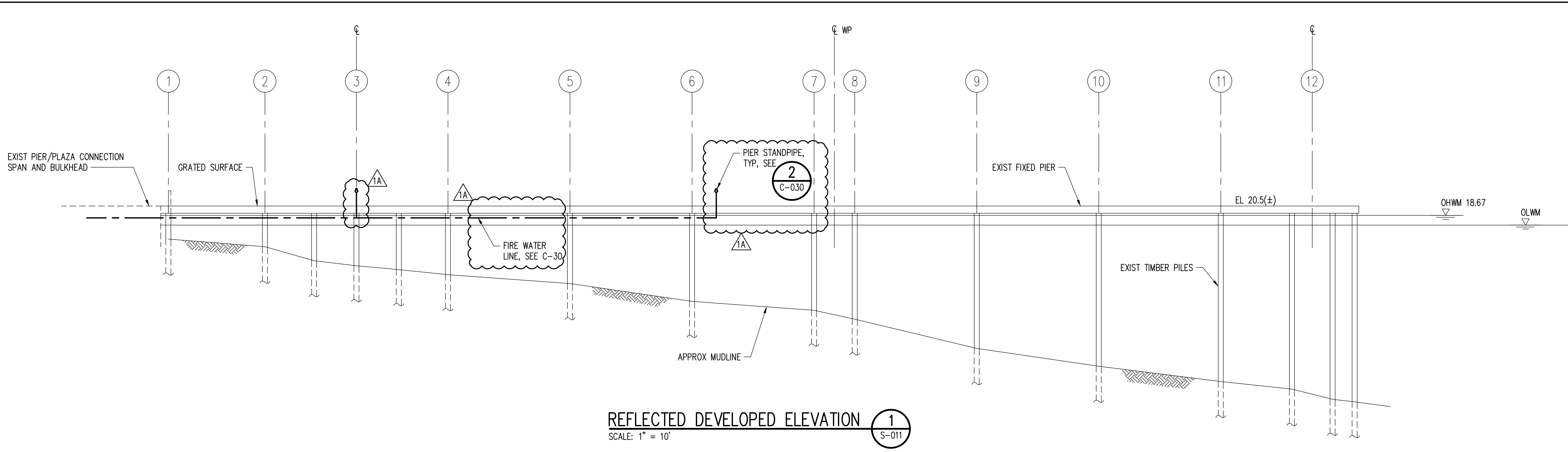


**LUTHER BURBANK PARK**  
WATERFRONT IMPROVEMENTS

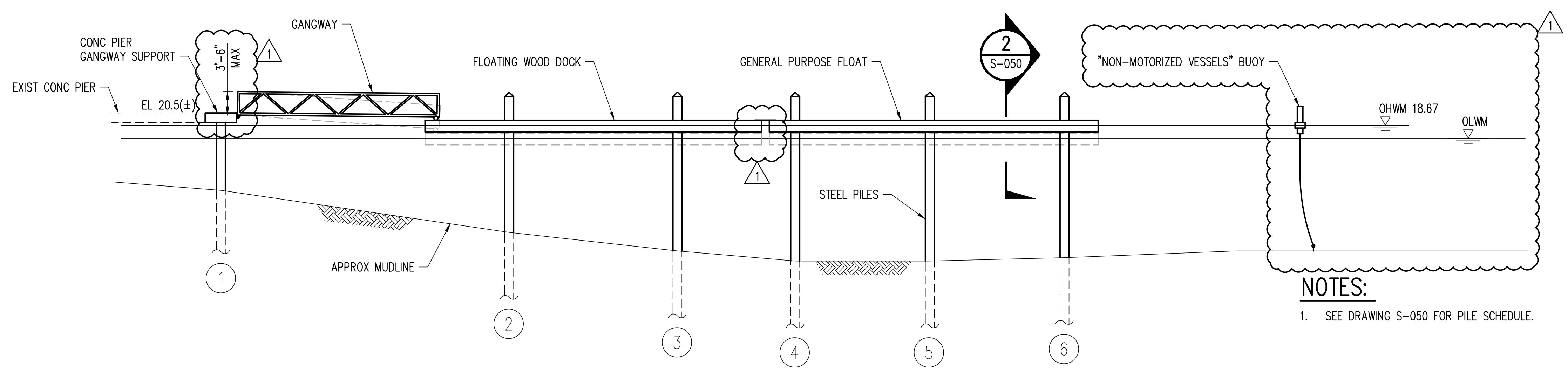
GRATED OVERWATER PLATFORM DETAILS

DRAWN: RRT	PROJECT NO.: 2200248
DESIGN: WBC	SCALE: AS SHOWN
CHECKED: AKB	DATE: 10/7/2022
DRAWING NO.	<b>S-020</b>
SHEET NO.	46 OF 56

60% SUBMITTAL



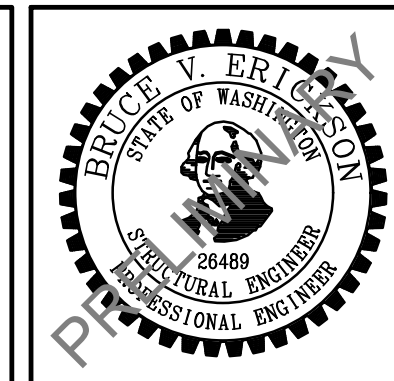
**REFLECTED DEVELOPED ELEVATION 1**  
SCALE: 1" = 10'  
S-011



**REFLECTED DEVELOPED ELEVATION 2**  
SCALE: 1" = 10'  
S-012

**NOTES:**  
1. SEE DRAWING S-050 FOR PILE SCHEDULE.

CAD USER: RICKT PLOT DATE: Apr 12, 2023-02:09pm  
PATH: V:\2000291 (Luther Burbank Pier Repairs)\02\_Design (v2019)\LBPR\_S-021.dwg



NO.	DATE	BY	REVISION
1	4/14/2023	WBC	LAND USE PERMIT REVISION
1A	4/14/2023	WBC	MIFD COMMENT REVISION

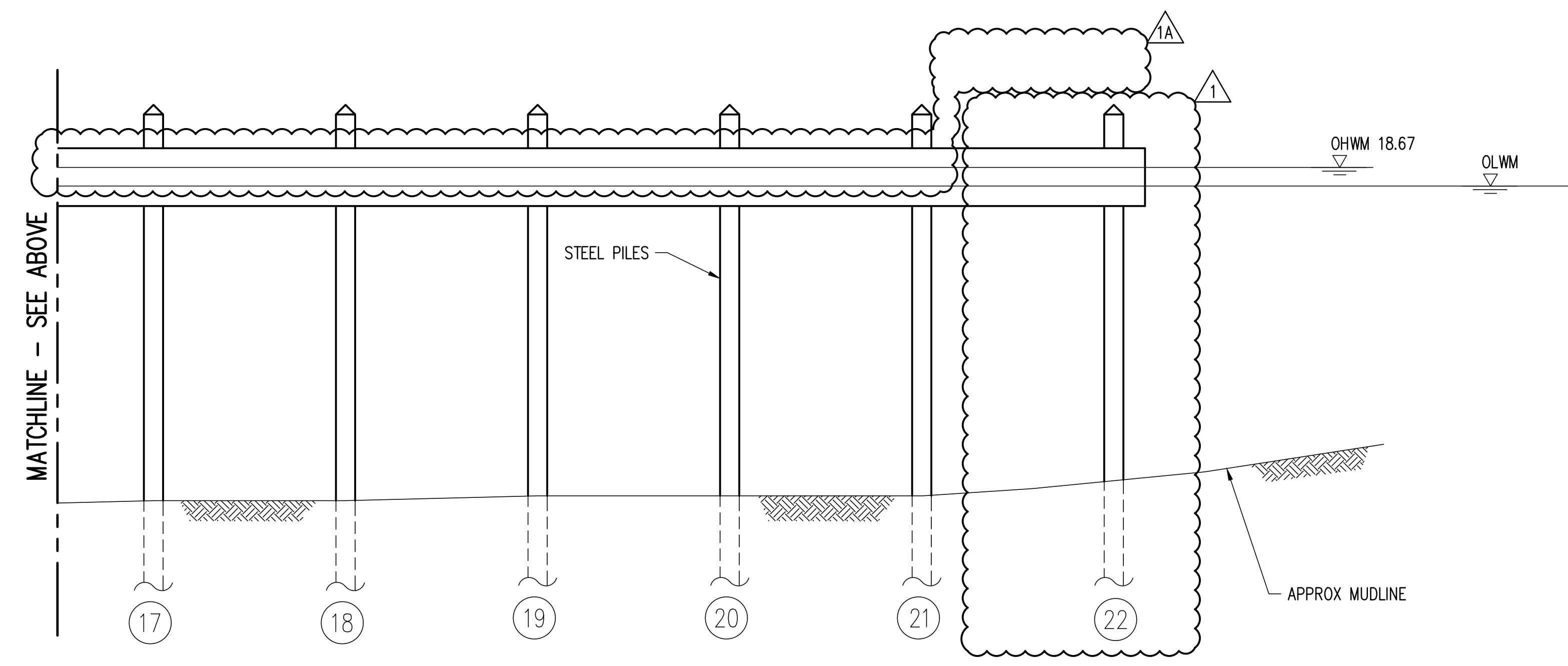
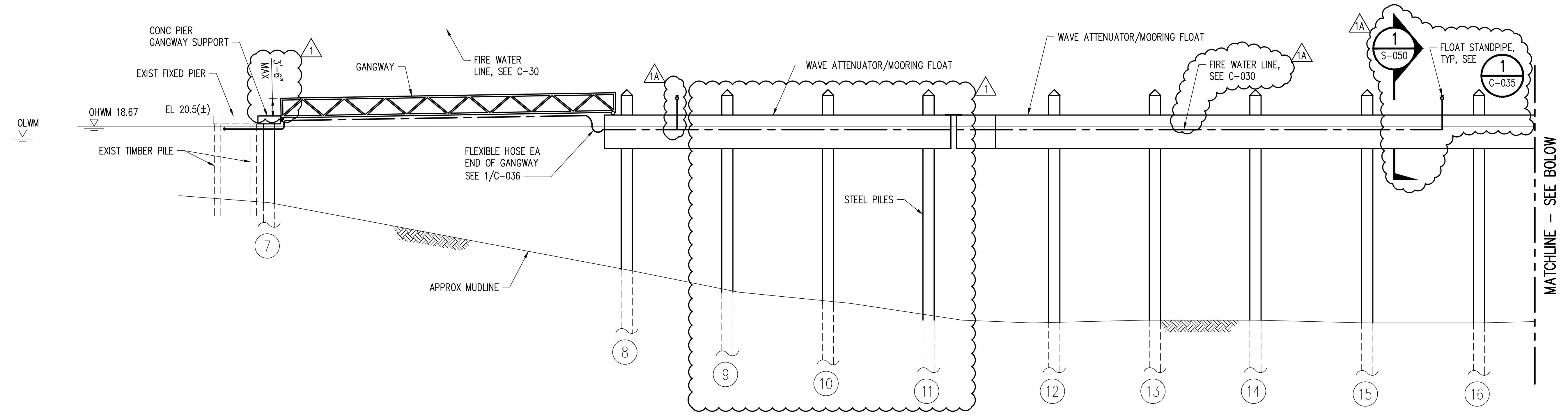


**LUTHER BURBANK PARK  
WATERFRONT IMPROVEMENTS**

PIER AND FLOATS ELEVATION

DRAWN: RRT	PROJECT NO.: 2200248
DESIGN: WBC	SCALE: AS SHOWN
CHECKED: AKB	DATE: 10/7/2022
DRAWING NO.	<b>S-021</b>
SHEET NO.	47 OF 56

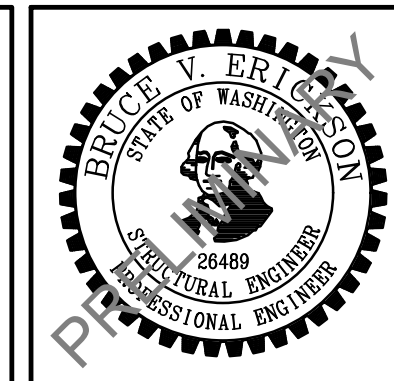
60% SUBMITTAL



REFLECTED DEVELOPED ELEVATION 1  
SCALE: 1" = 10' S-012

**NOTES:**  
1. SEE DRAWING S-050 FOR PILE SCHEDULE.

CAD USER: RICKT PLOT DATE: Apr 12, 2023-03:03pm  
PATH: V:\2000291 (Luther Burbank Pier Repairs)\02\_Design (v2019)\LBPR\_S-022.dwg



NO.	DATE	BY	REVISION
1	4/14/2023	WBC	LAND USE PERMIT REVISION
1A	4/14/2023	WBC	MIFD COMMENT REVISION

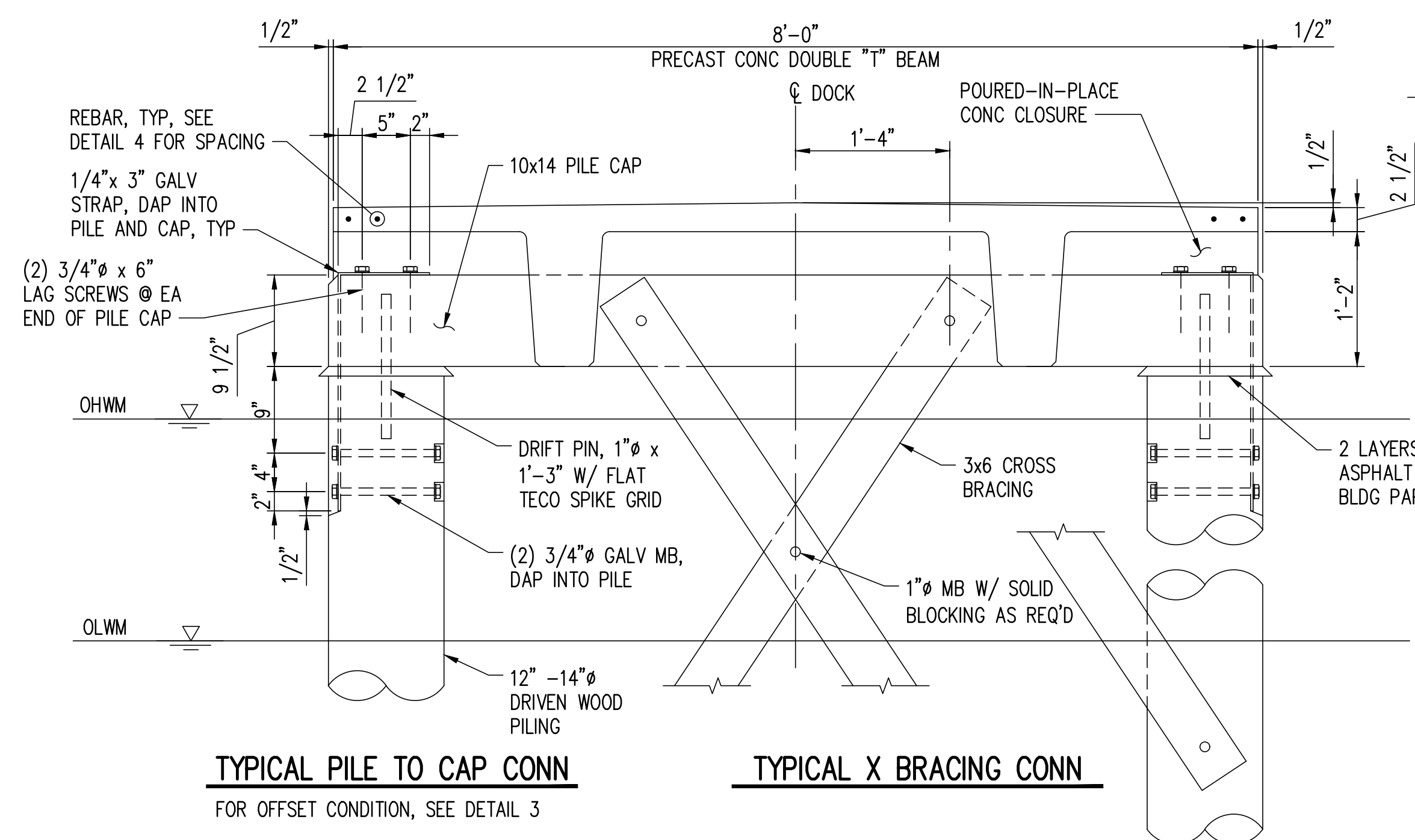


**LUTHER BURBANK PARK  
WATERFRONT IMPROVEMENTS**

PIER AND FLOATS ELEVATION

DRAWN: RRT	PROJECT NO.: 2200248
DESIGN: WBC	SCALE: AS SHOWN
CHECKED: AKB	DATE: 10/7/2022
DRAWING NO.	S-022
SHEET NO.	48 OF 56

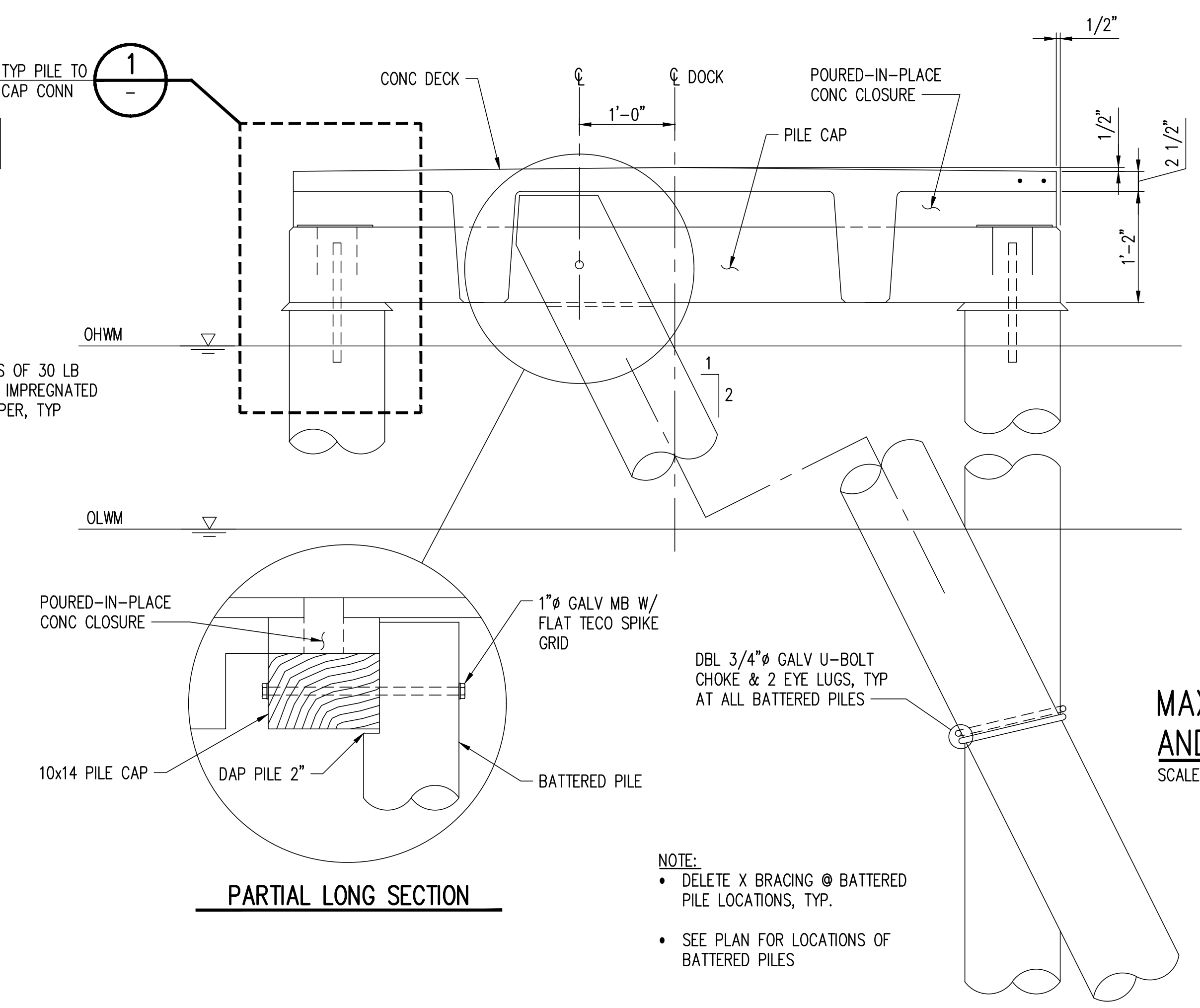
60% SUBMITTAL



**TYPICAL PILE TO CAP CONN**  
 FOR OFFSET CONDITION, SEE DETAIL 3

**TYPICAL X BRACING CONN**

**TYPICAL CROSS SECTION/RIGID DOCK**  
 SCALE: 1" = 1'-0"



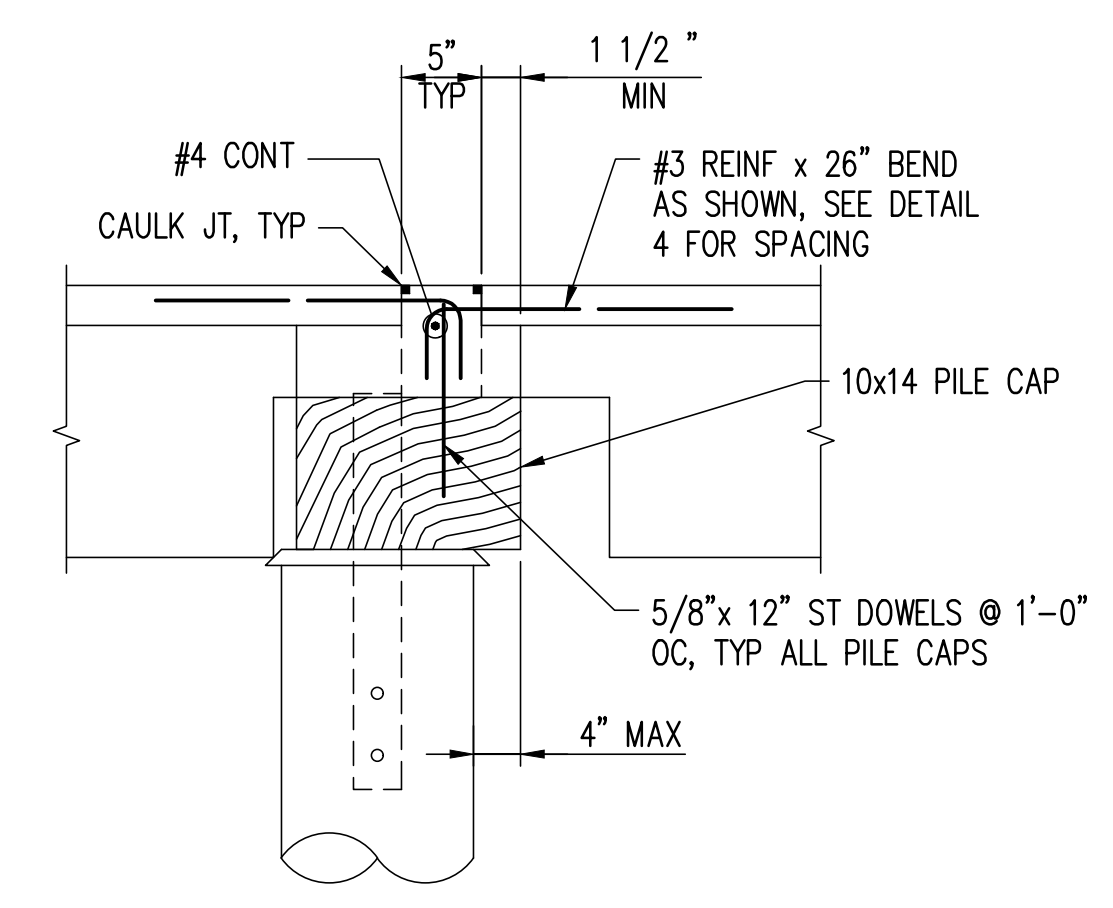
**PARTIAL LONG SECTION**

**TYPICAL CROSS SECTION AT BATTERED PILES**  
 SCALE: 1" = 1'-0"

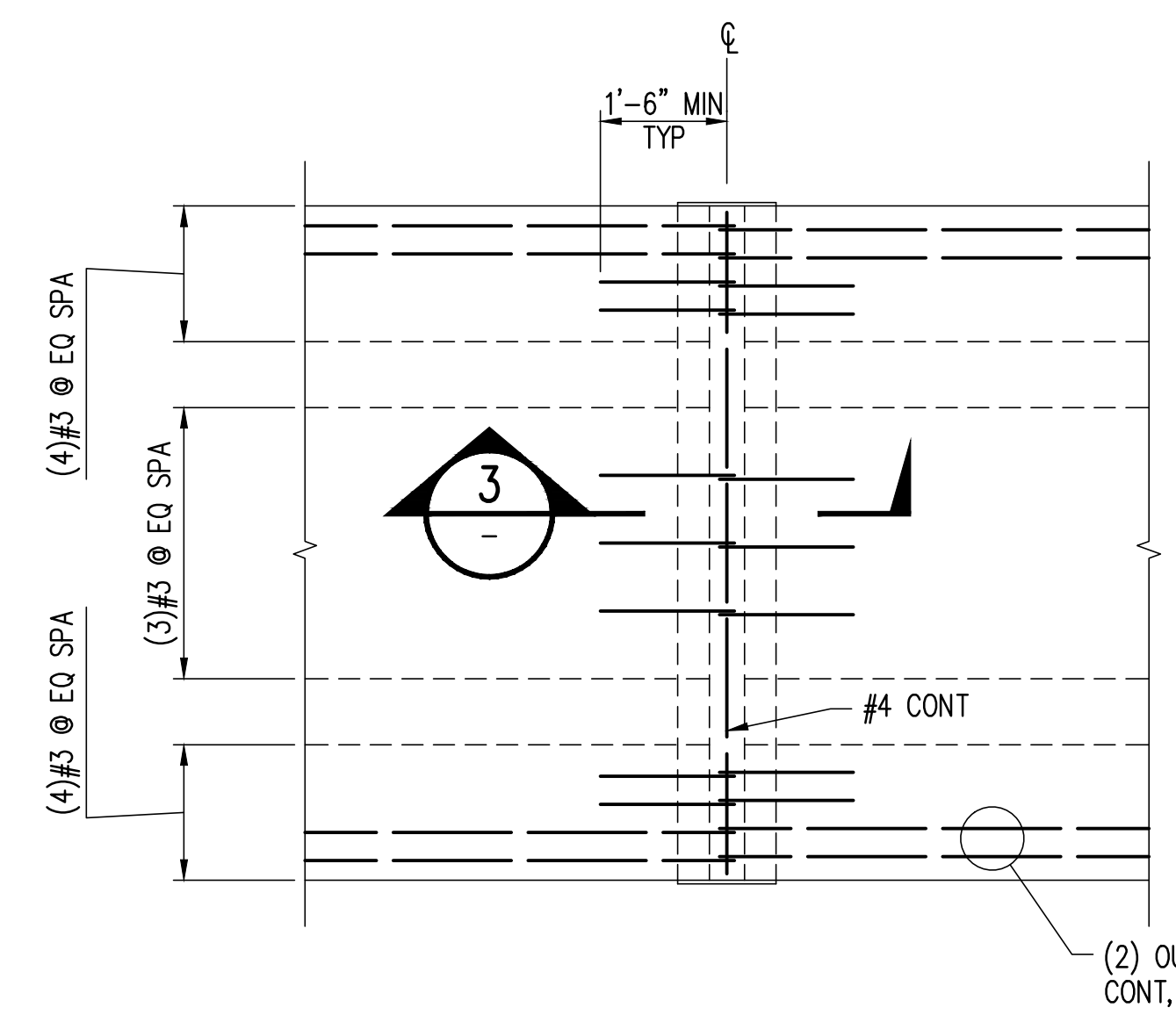
- NOTE:**
- DELETE X BRACING @ BATTERED PILE LOCATIONS, TYP.
  - SEE PLAN FOR LOCATIONS OF BATTERED PILES

**NOTES:**

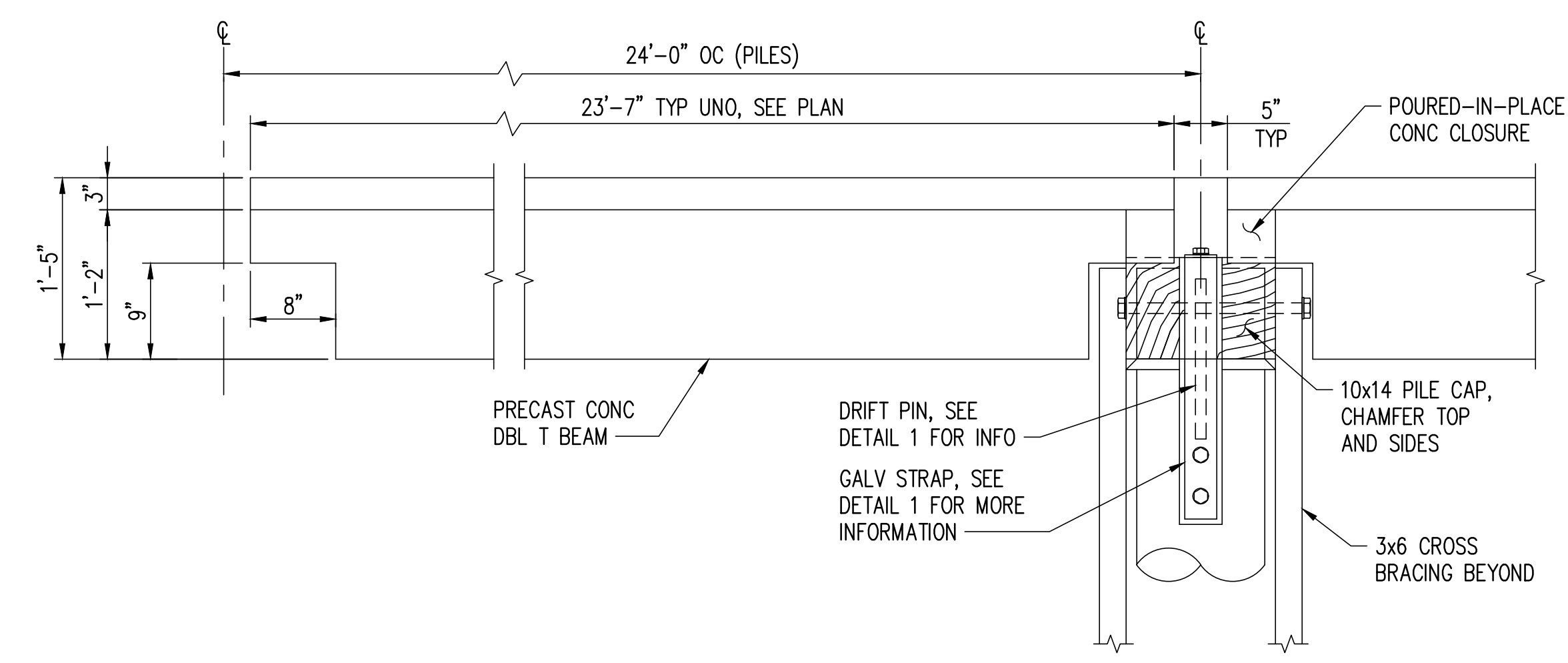
- CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS IN THE FIELD PRIOR TO STARTING THE WORK. BRING ANY DISCREPANCIES TO THE ATTENTION OF THE ENGINEER.



**MAXIMUM PILE OFFSET, REINFORCING AND MINIMUM BEARING CRITERIA**  
 SCALE: 1" = 1'-0"



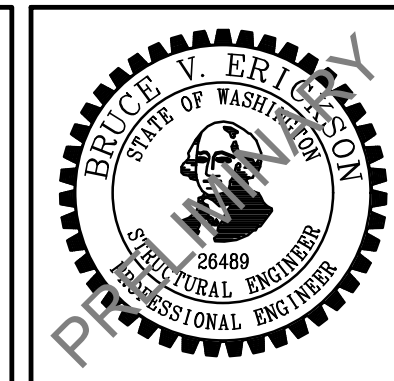
**TYPICAL DOCK CONN REINFORCING PLAN**  
 SCALE: 1/2" = 1'-0"



**TYPICAL RIGID DOCK CONN/ELEVATION**  
 SCALE: 1" = 1'-0"

**NOTE: ALL INFORMATION ON THIS SHEET SHOWS EXISTING CONDITIONS AND WAS TAKEN FROM RECORD DRAWINGS FROM PREVIOUS PROJECTS. IT IS SHOWN FOR CONTRACTOR INFORMATION ONLY.**

CAD USER: RICKT PLOT DATE: Apr 12, 2023-03:07pm  
 PATH: V:\2000291 (Luther Burbank Pier Repairs)\02\_Design (v2019)\LBPR\_S-030.dwg



NO.	DATE	BY	REVISION
1A	4/14/2023	WBC	MIFD COMMENT REVISION



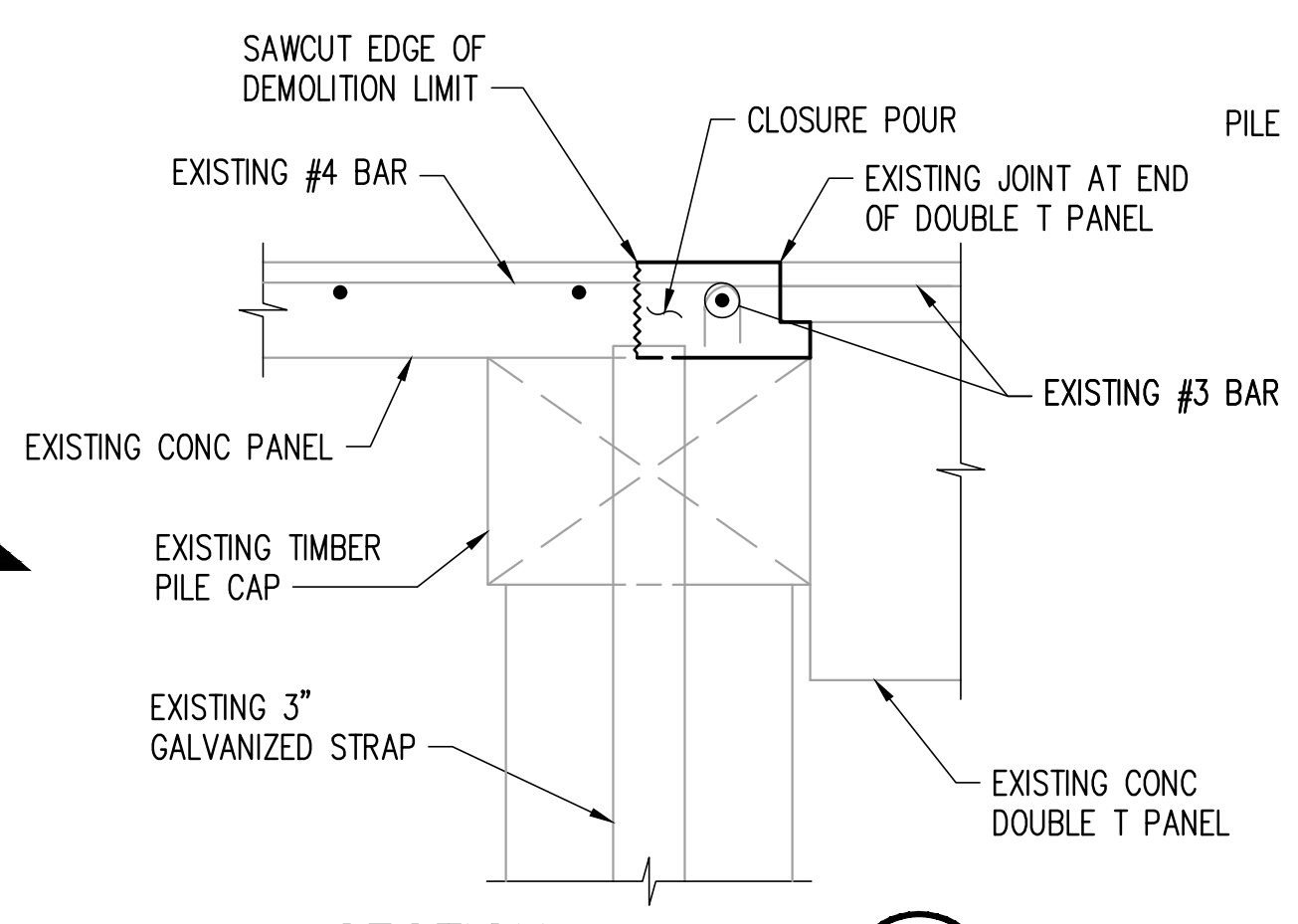
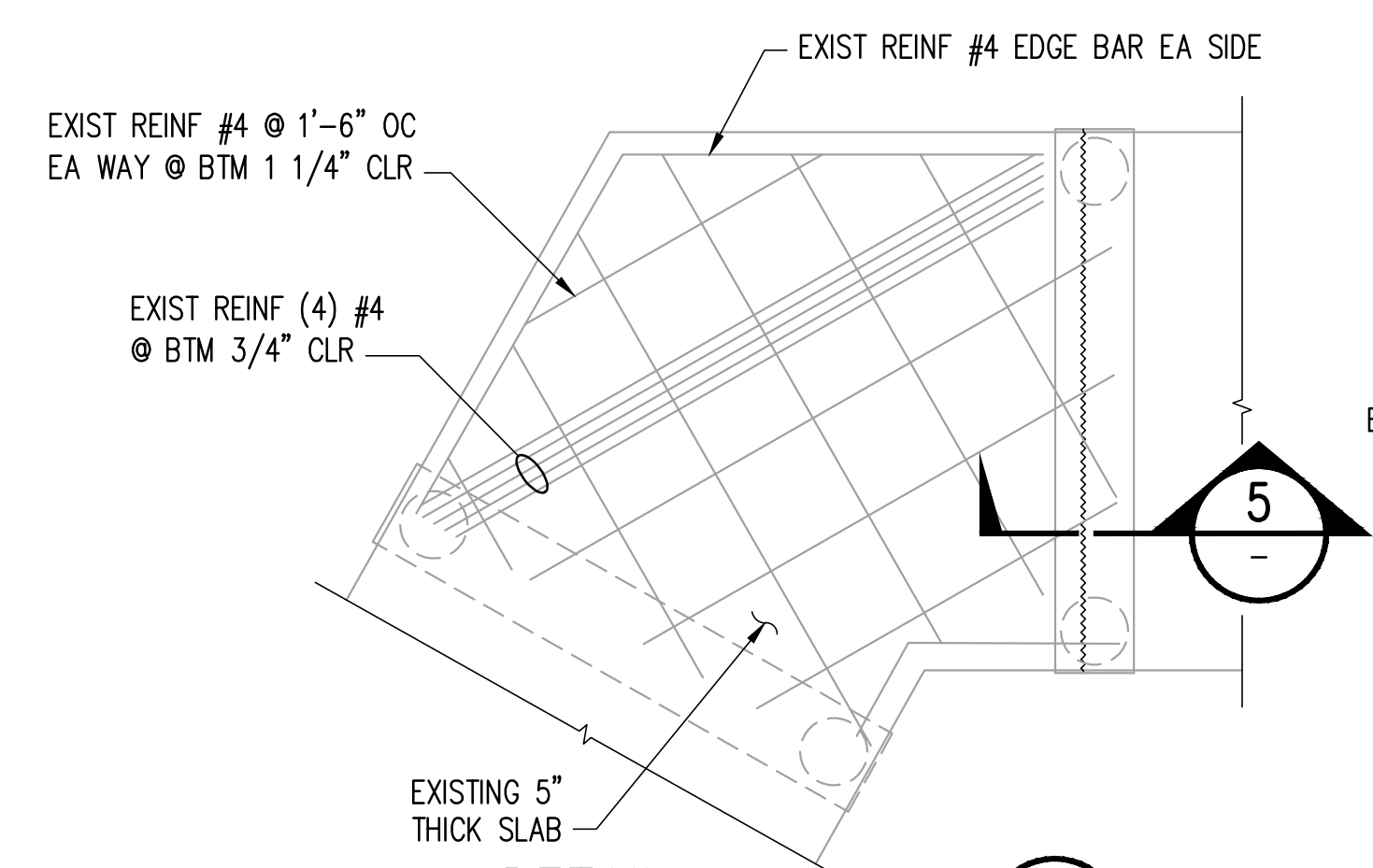
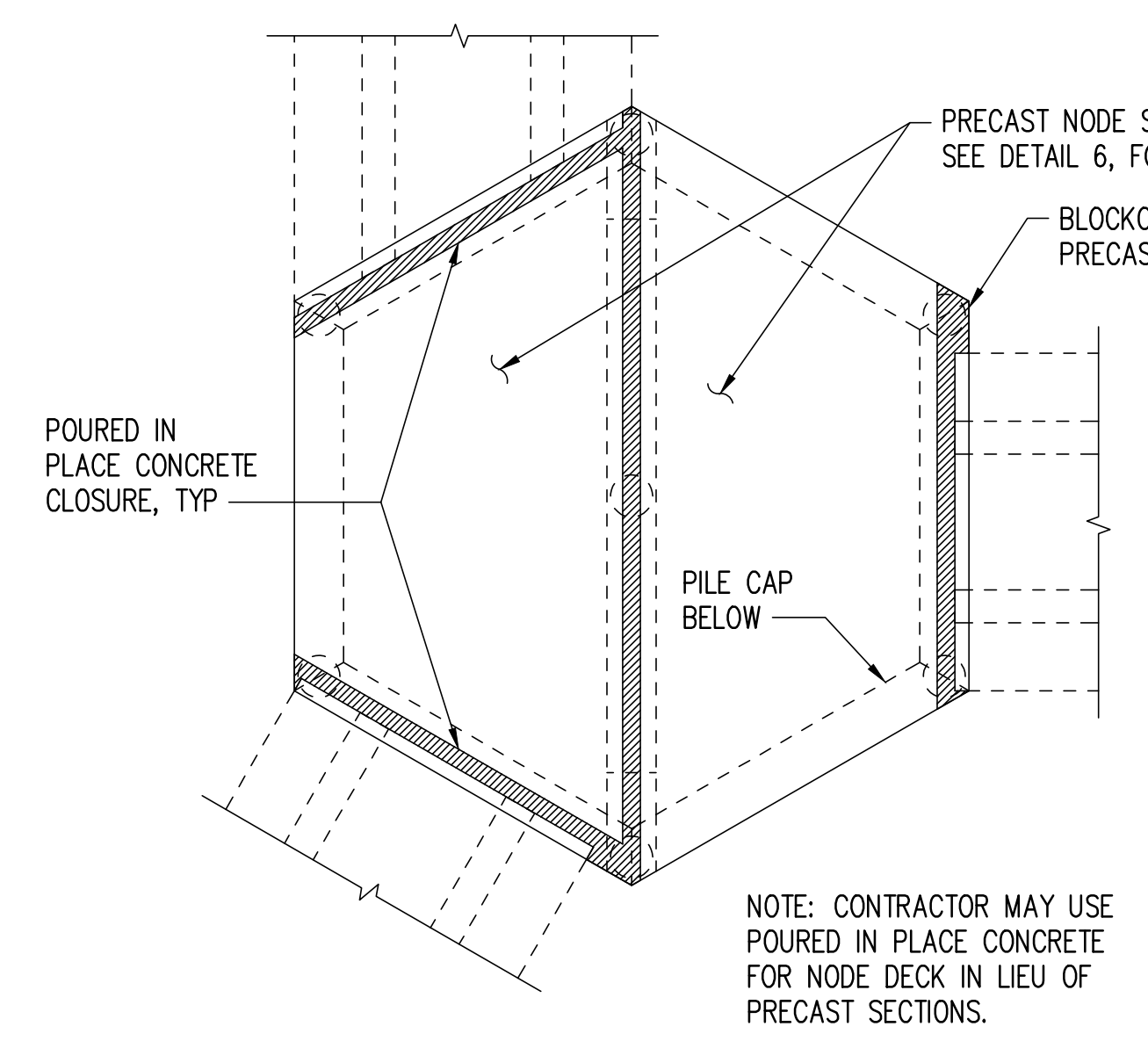
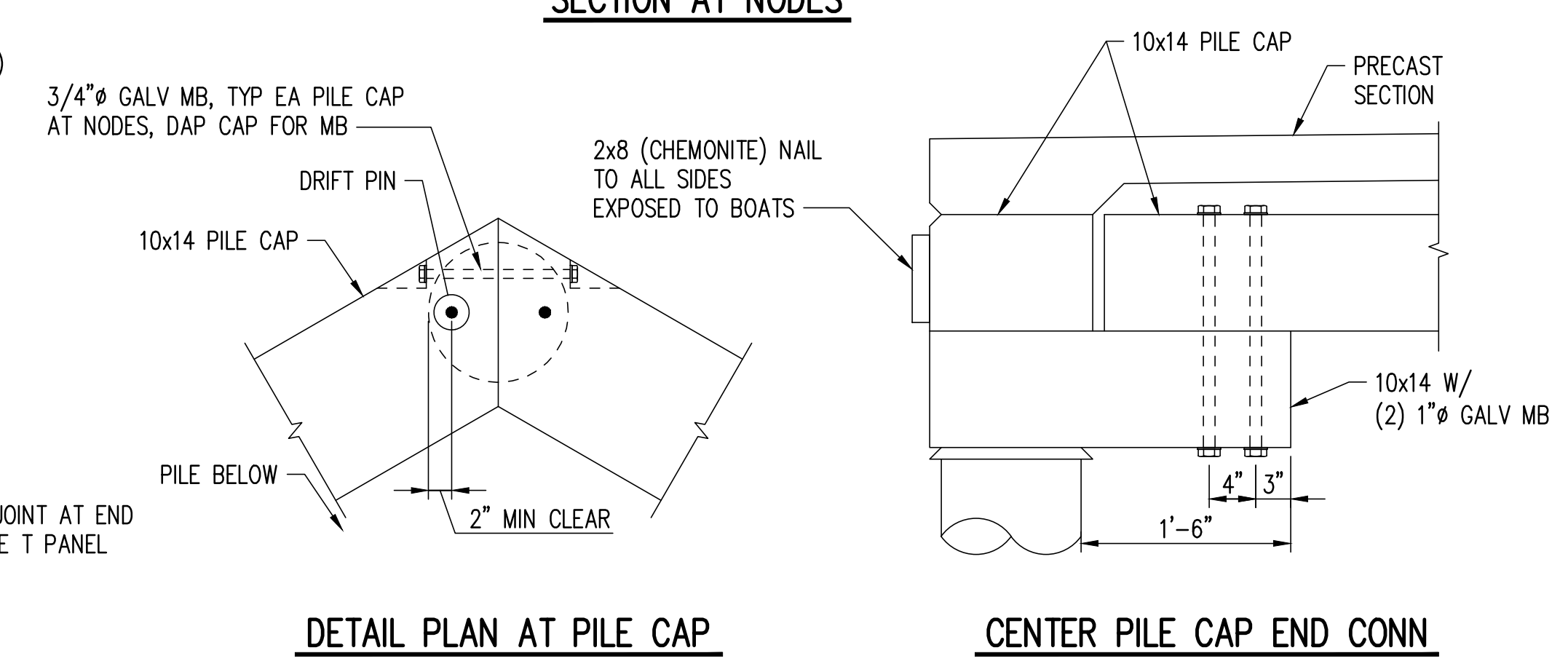
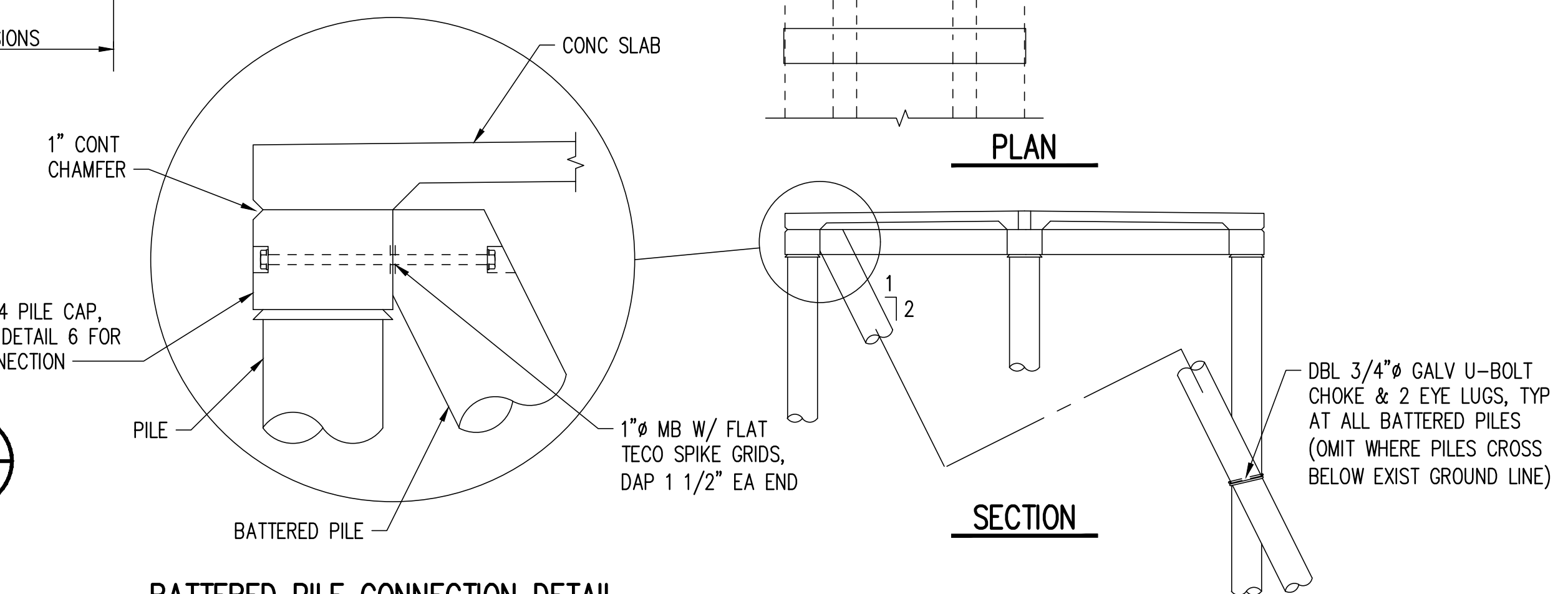
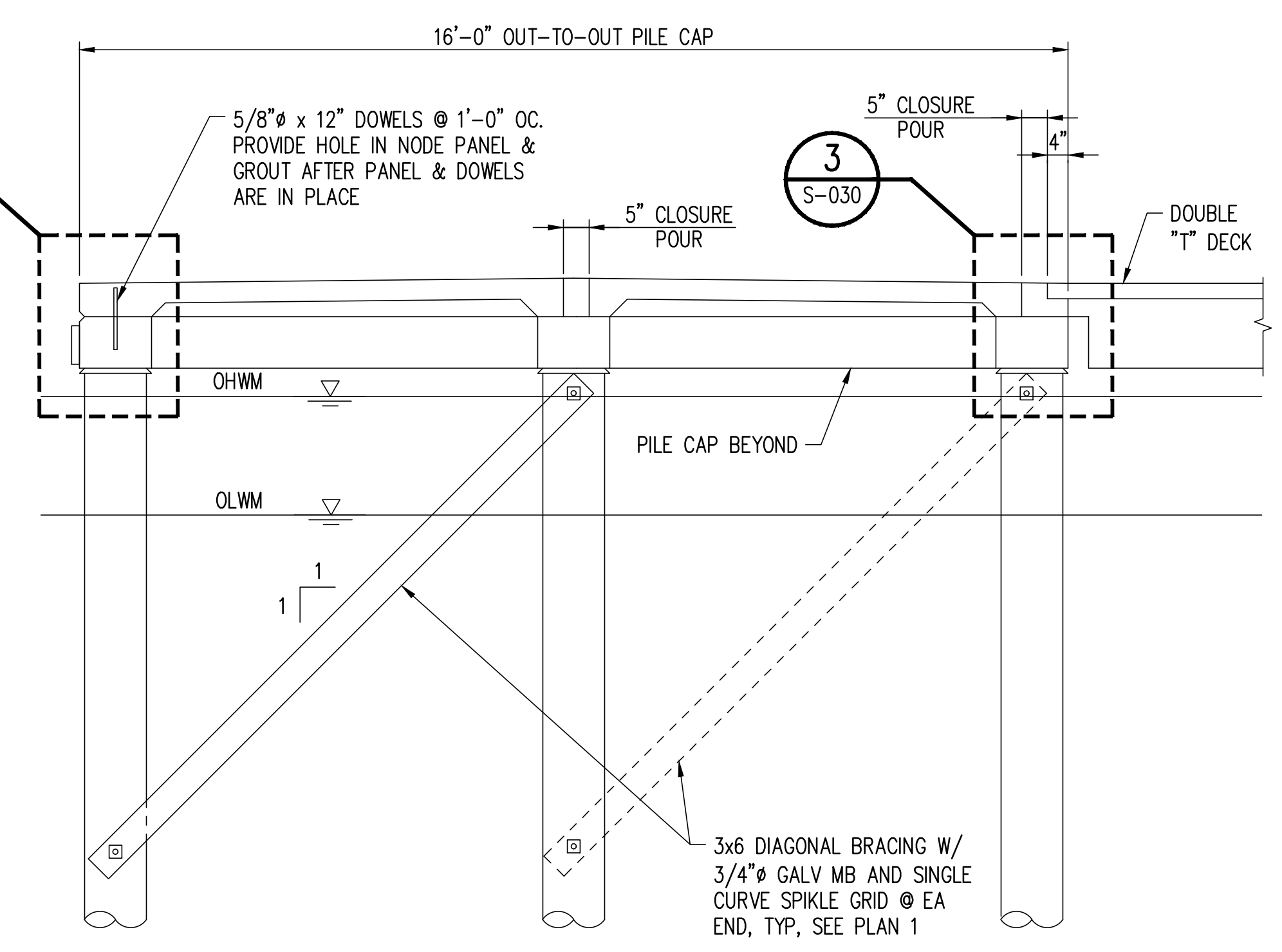
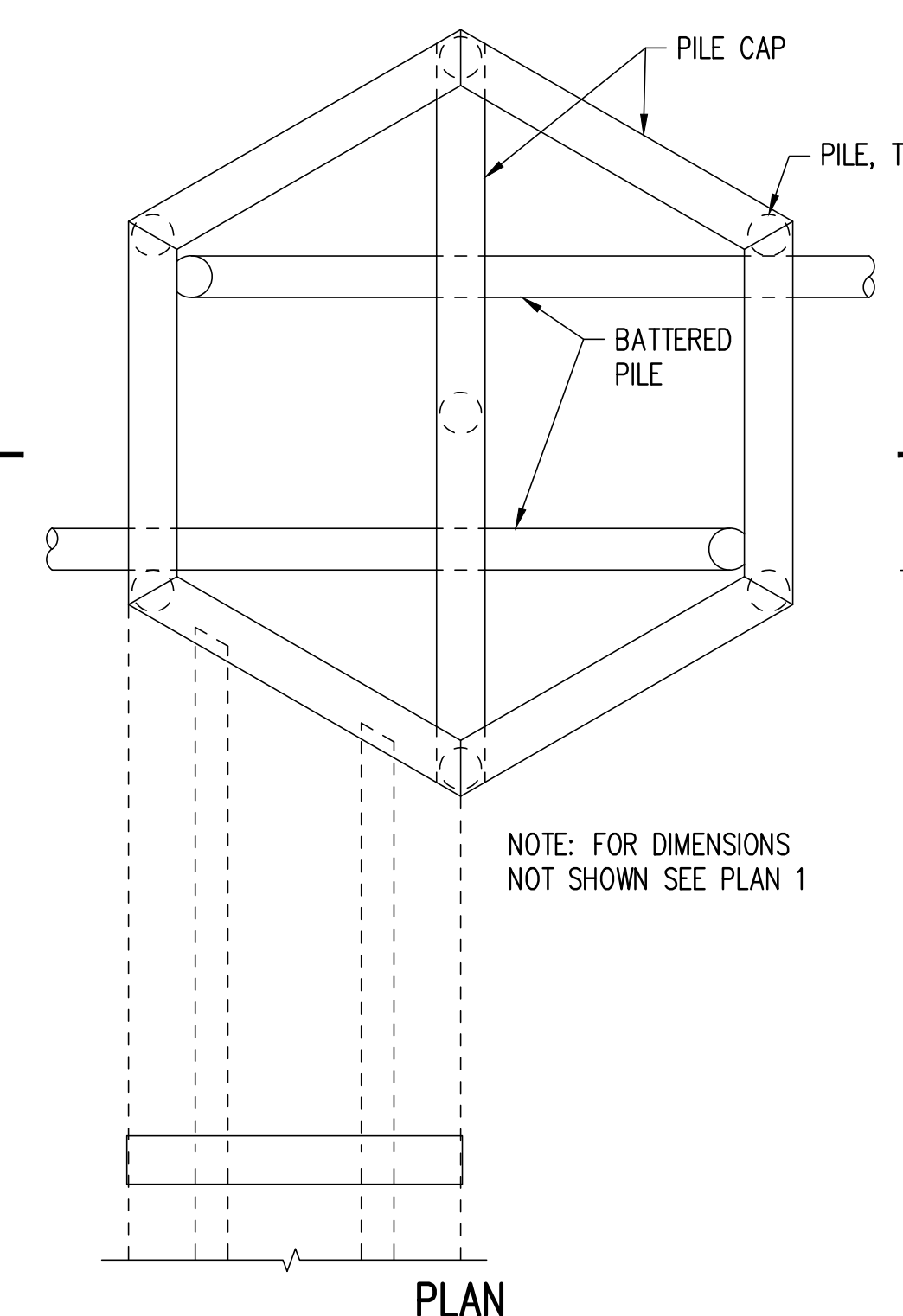
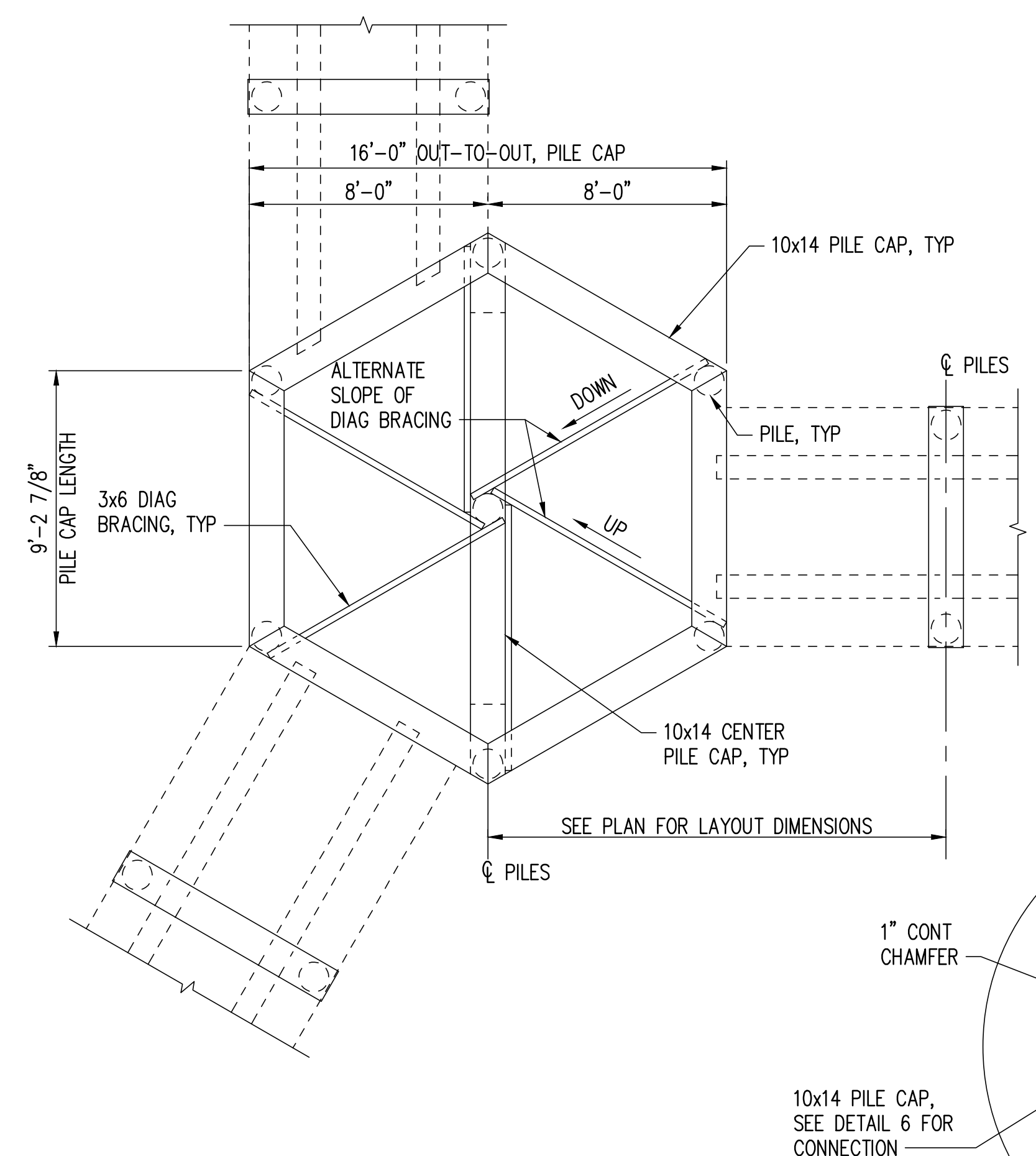
**LUTHER BURBANK PARK WATERFRONT IMPROVEMENTS**  
 FIXED PIER EXISTING CONDITIONS 1

DRAWN: RRT	PROJECT NO.: 2200248
DESIGN: WBC	SCALE: AS SHOWN
CHECKED: AKB	DATE: 10/7/2022
DRAWING NO.	<b>S-030</b>
SHEET NO.	49 OF 56

60% SUBMITTAL

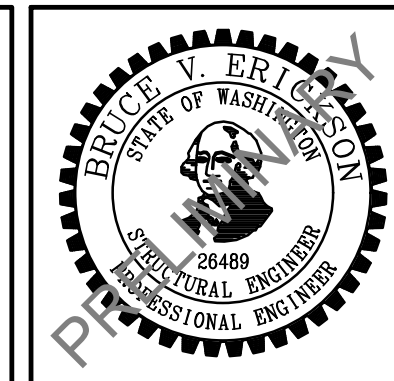
**NOTES:**

- SEE DRAWING S-030 FOR ADDITIONAL NOTES.
- EXISTING CONDITION REPAIR SHOWN IN DETAIL 4, COMPLETED 2022.



**NOTE: ALL INFORMATION ON THIS SHEET SHOWS EXISTING CONDITIONS AND WAS TAKEN FROM RECORD DRAWINGS FROM PREVIOUS PROJECTS. IT IS SHOWN FOR CONTRACTOR INFORMATION ONLY.**

CAD USER: RICKT PLOT DATE: Apr 12, 2023-03:08pm  
PATH: V:\2000291 (Luther Burbank Pier Repairs)\02\_Design (v2019)\LBPR\_S-031.dwg



NO.	DATE	BY	REVISION
1A	4/14/2023	WBC	MIFD COMMENT REVISION



**LUTHER BURBANK PARK  
WATERFRONT IMPROVEMENTS**

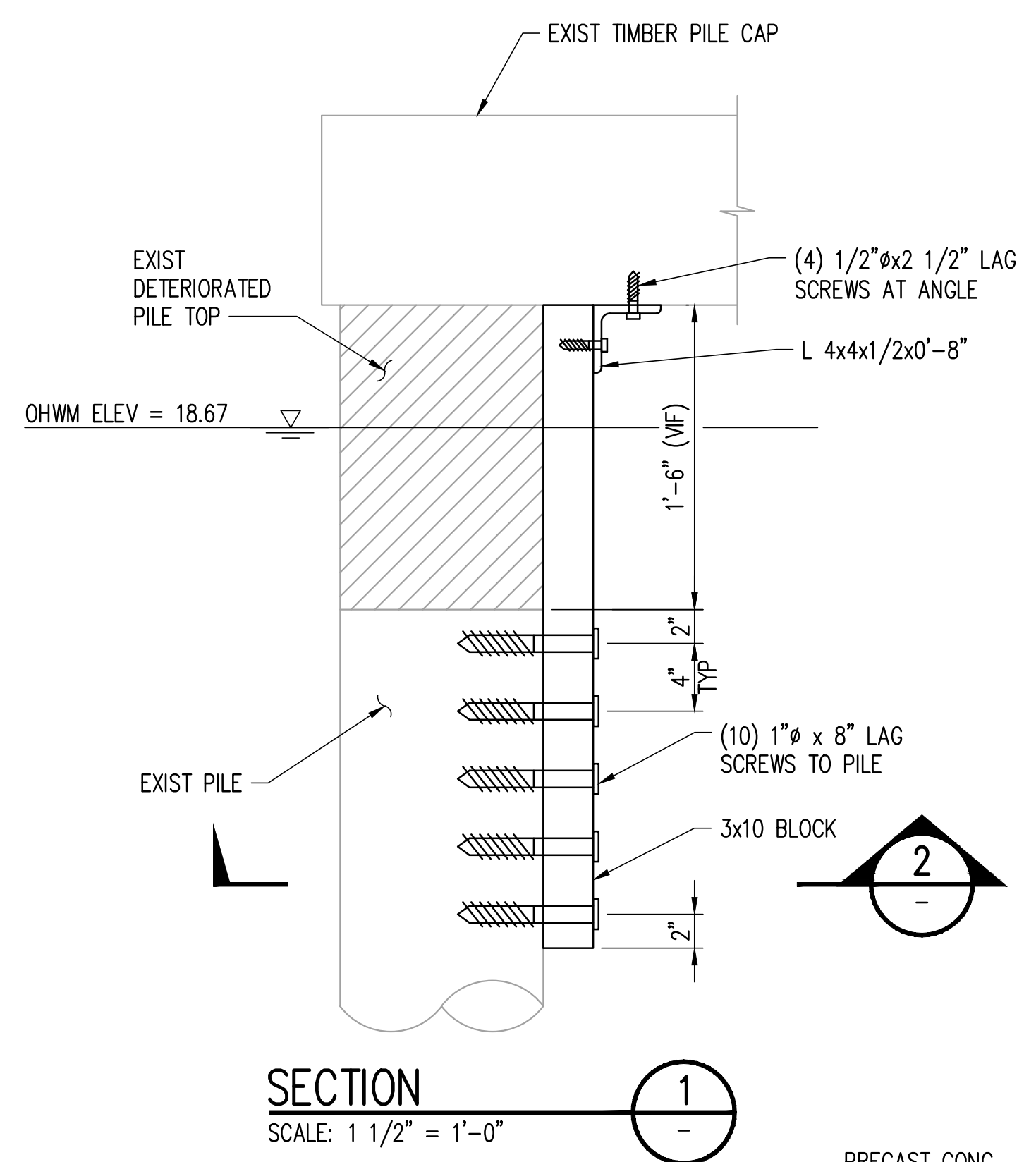
FIXED PIER EXISTING CONDITIONS 2

DRAWN: RRT	PROJECT NO.: 2200248
DESIGN: WBC	SCALE: AS SHOWN
CHECKED: AKB	DATE: 10/7/2022
DRAWING NO.	<b>S-031</b>
SHEET NO.	50 OF 56

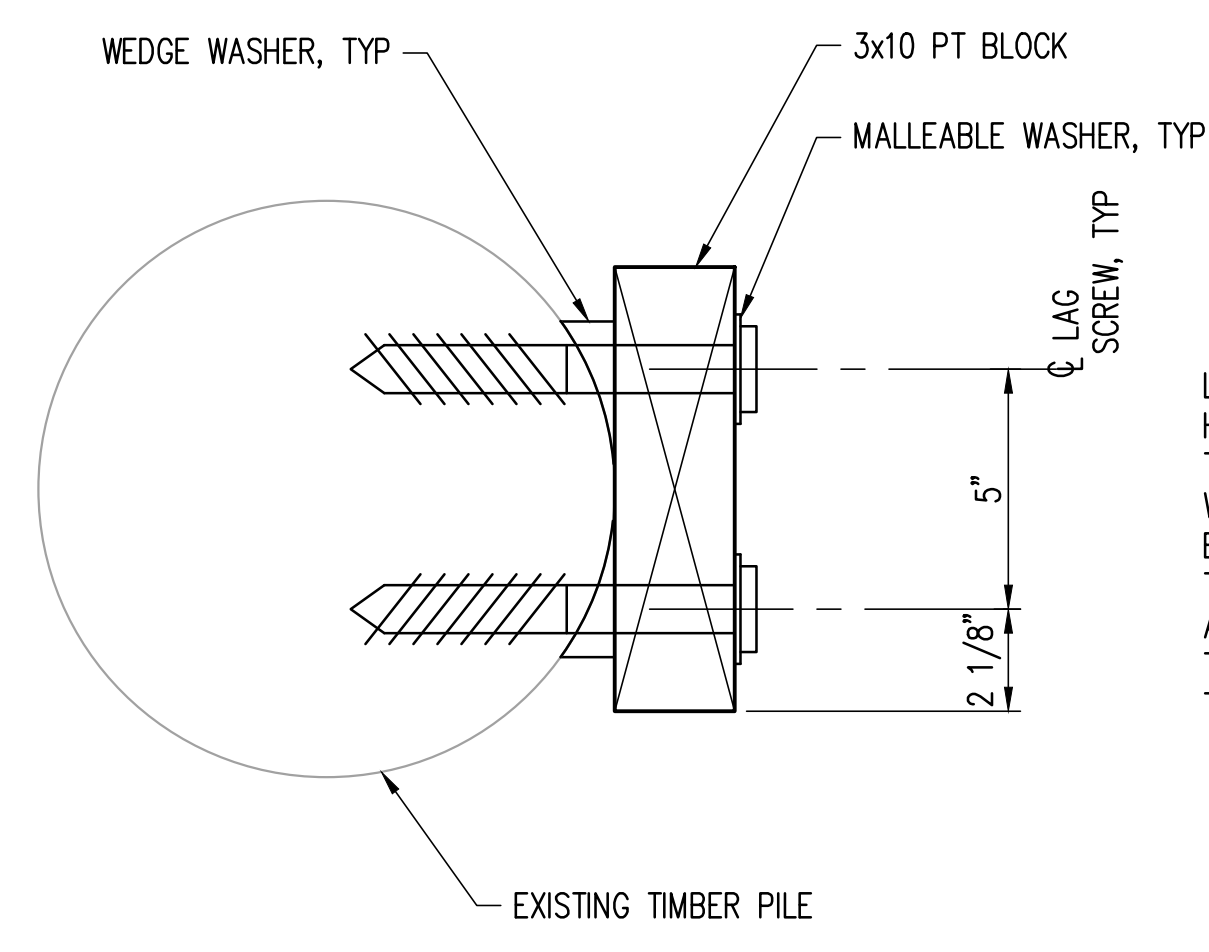
60% SUBMITTAL

**NOTES:**

- SEE DRAWING S-030 FOR ADDITIONAL NOTES.
- EXISTING CONDITION TEMPORARY REPAIR SHOWN IN SECTION DETAIL 1 COMPLETED 2022.

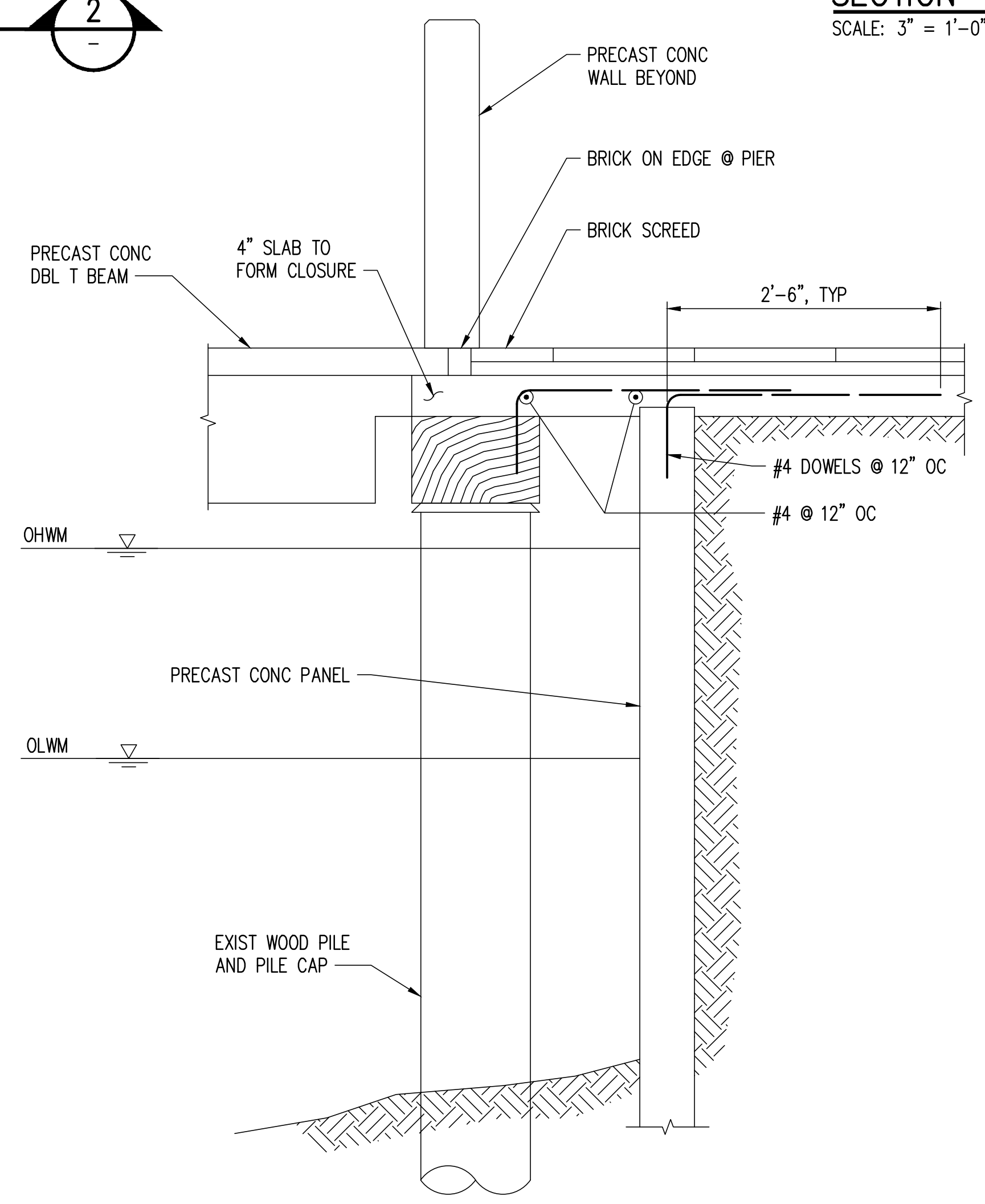


**SECTION 1**  
SCALE: 1 1/2" = 1'-0"



**SECTION 2**  
SCALE: 3" = 1'-0"

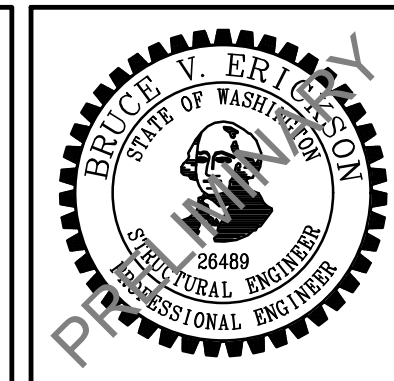
LAG SCREWS SHALL BE INSTALLED SNUG TIGHT, HOWEVER SHALL NOT INDUCE BENDING OF TIMBER BLOCKS. CONTRACTOR MAY FABRICATE WEDGE WASHERS TO ENSURE BLOCKS ARE NOT BENT. ANY BLOCK THAT IS BENT FROM OVER TIGHTENING LAG SCREWS SHALL BE REPLACED AT NO ADDITIONAL COST TO THE CITY. BLOCKS THAT ARE BENT WILL LIKELY BE SPLIT ALONG THE GRAIN OF THE BLOCKS.



**PIER/PLAZA CONNECTION 3**  
SCALE: 1/2" = 1'-0"

**NOTE: ALL INFORMATION ON THIS SHEET SHOWS EXISTING CONDITIONS AND WAS TAKEN FROM RECORD DRAWINGS FROM PREVIOUS PROJECTS. IT IS SHOWN FOR CONTRACTOR INFORMATION ONLY.**

CAD USER: RICKT PLOT DATE: Apr 12, 2023-03:10pm  
PATH: V:\2000291 (Luther Burbank Pier Repairs)\02\_Design (v2019)\LBPR\_S-032.dwg



NO.	DATE	BY	REVISION
1A	4/14/2023	WBC	MIFD COMMENT REVISION



**LUTHER BURBANK PARK  
WATERFRONT IMPROVEMENTS**

FIXED PIER EXISTING CONDITIONS 3

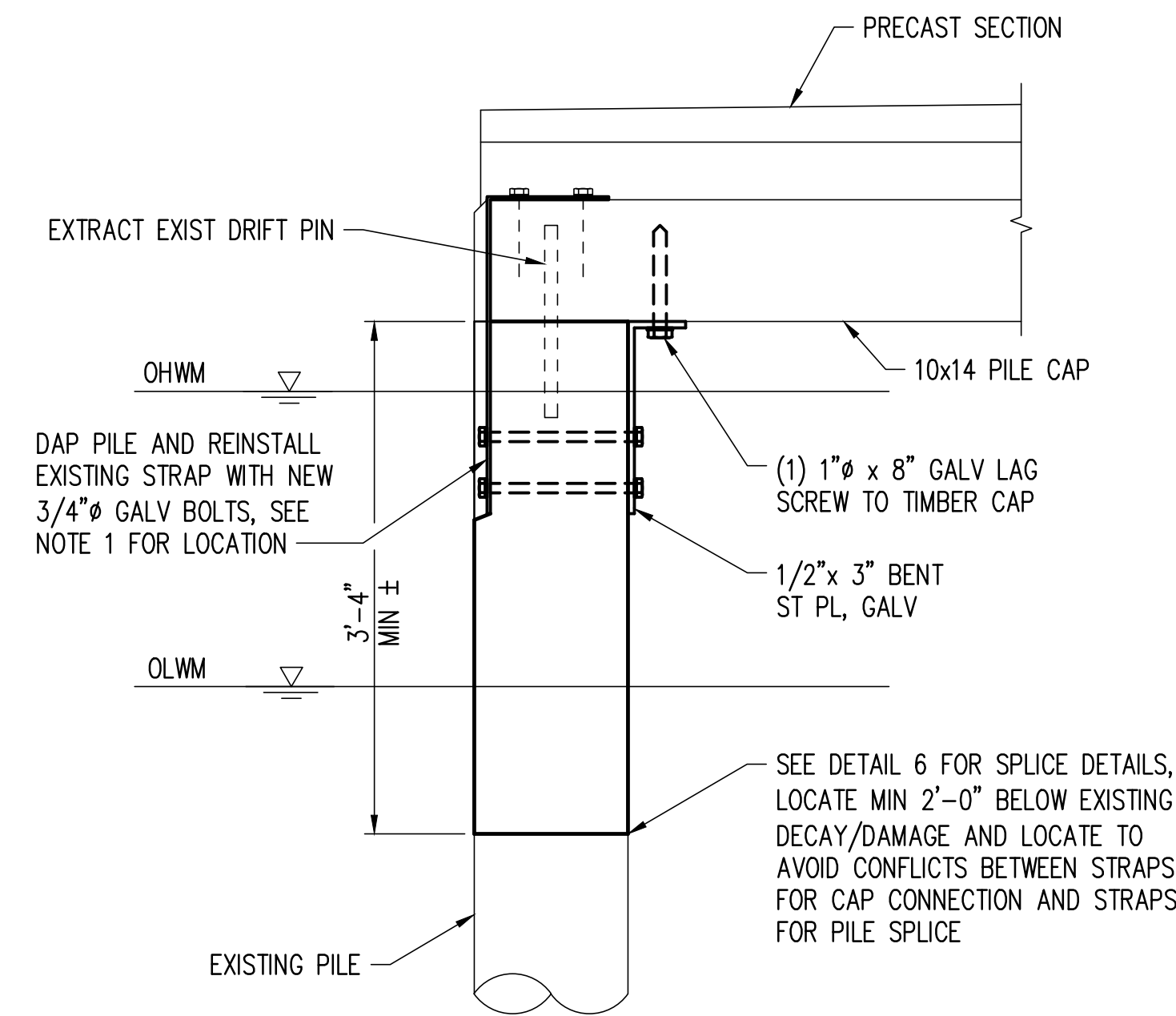
DRAWN: RRT	PROJECT NO.: 2200248
DESIGN: WBC	SCALE: AS SHOWN
CHECKED: AKB	DATE: 10/7/2022
DRAWING NO.	<b>S-032</b>
SHEET NO.	51 OF 56

60% SUBMITTAL

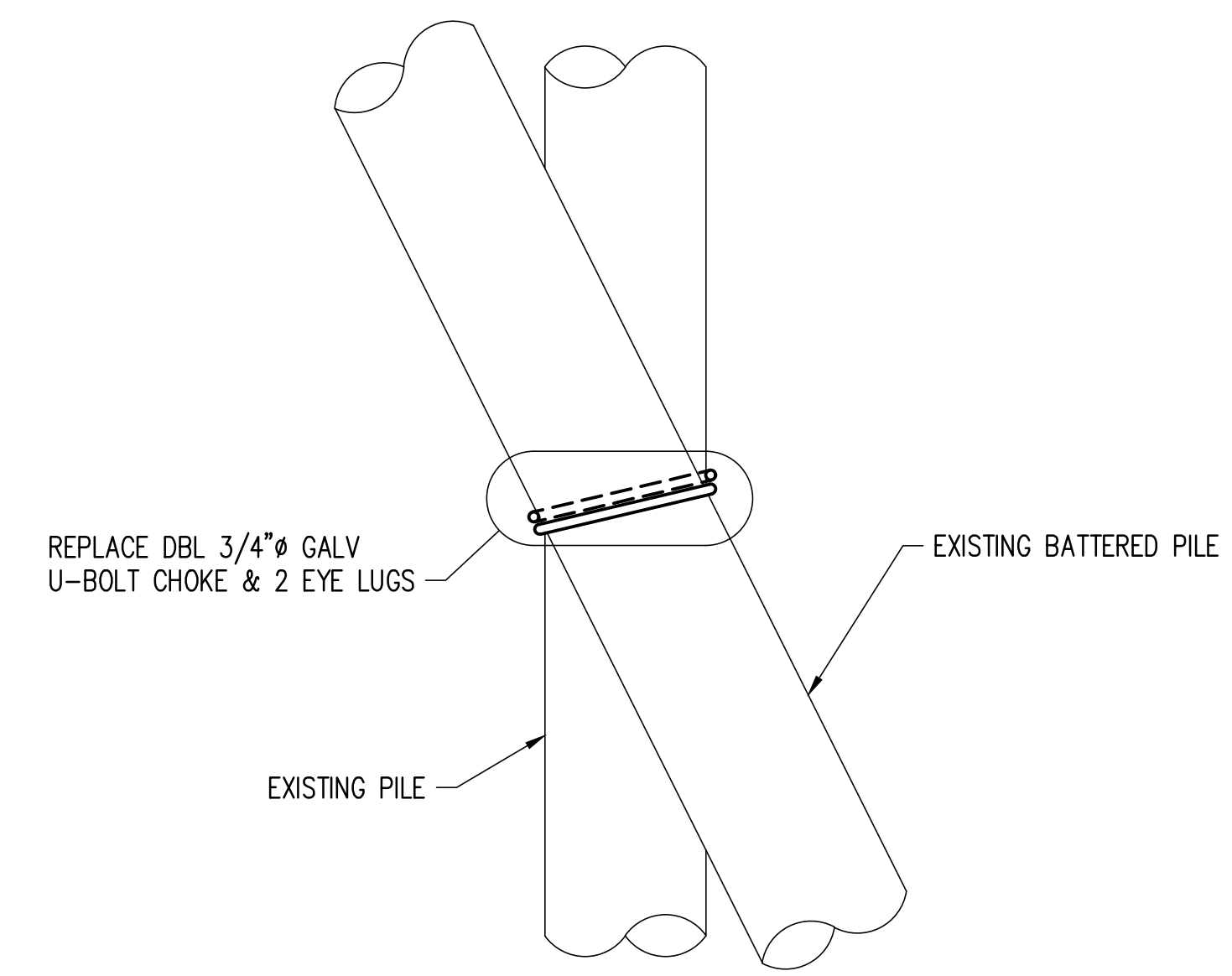


**NOTES:**

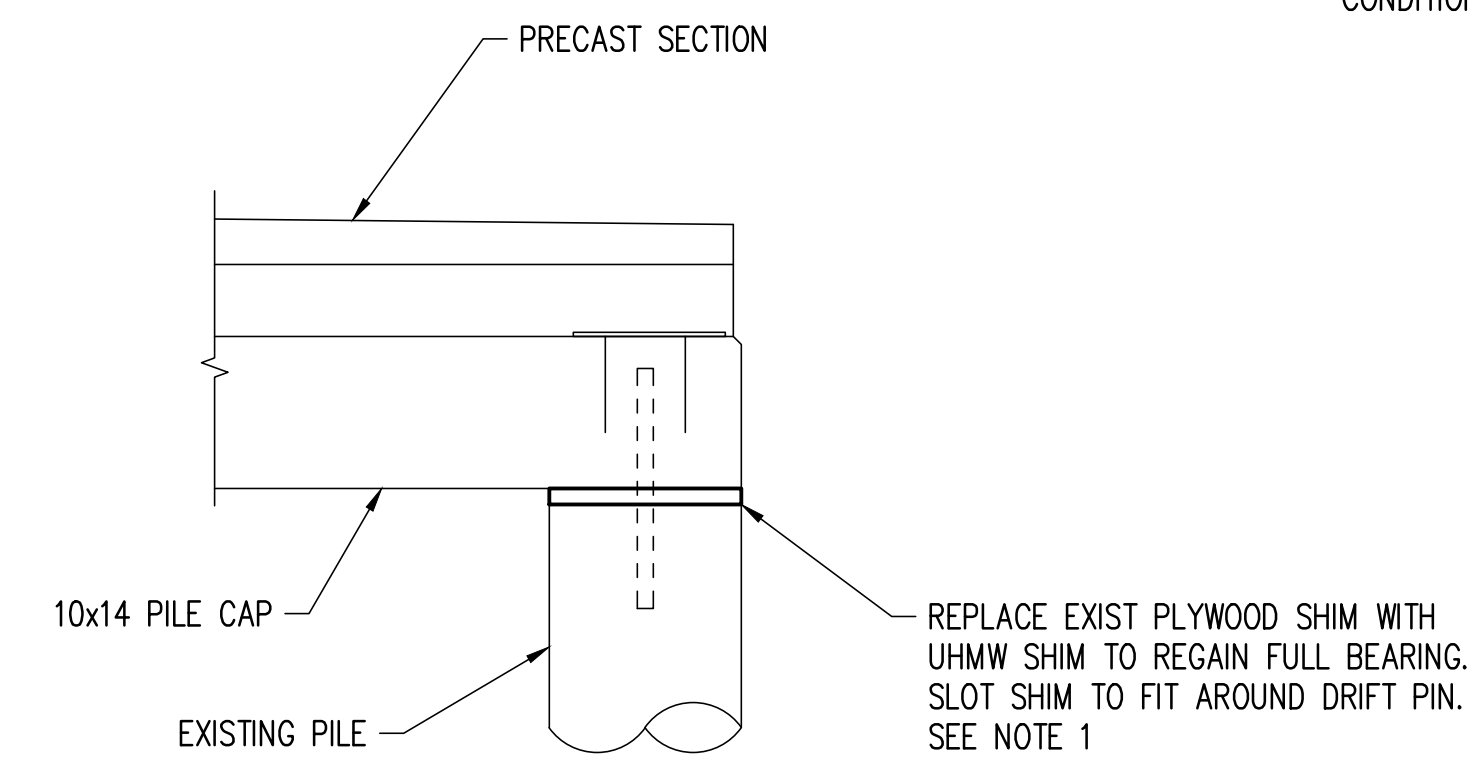
- SEE DRAWINGS S-030 THRU S-032 FOR EXISTING CONDITIONS.
- EXTRACT DECAYED PILE CAPS FULL LENGTH WITHOUT DAMAGING EXISTING CONC DECK AND TIMBER PILES, AND REPLACE WITH TREATED 10x14 TIMBERS. REPLACE CONNECTING HARDWARE SHOWN IN EXISTING CONDITIONS UNO.



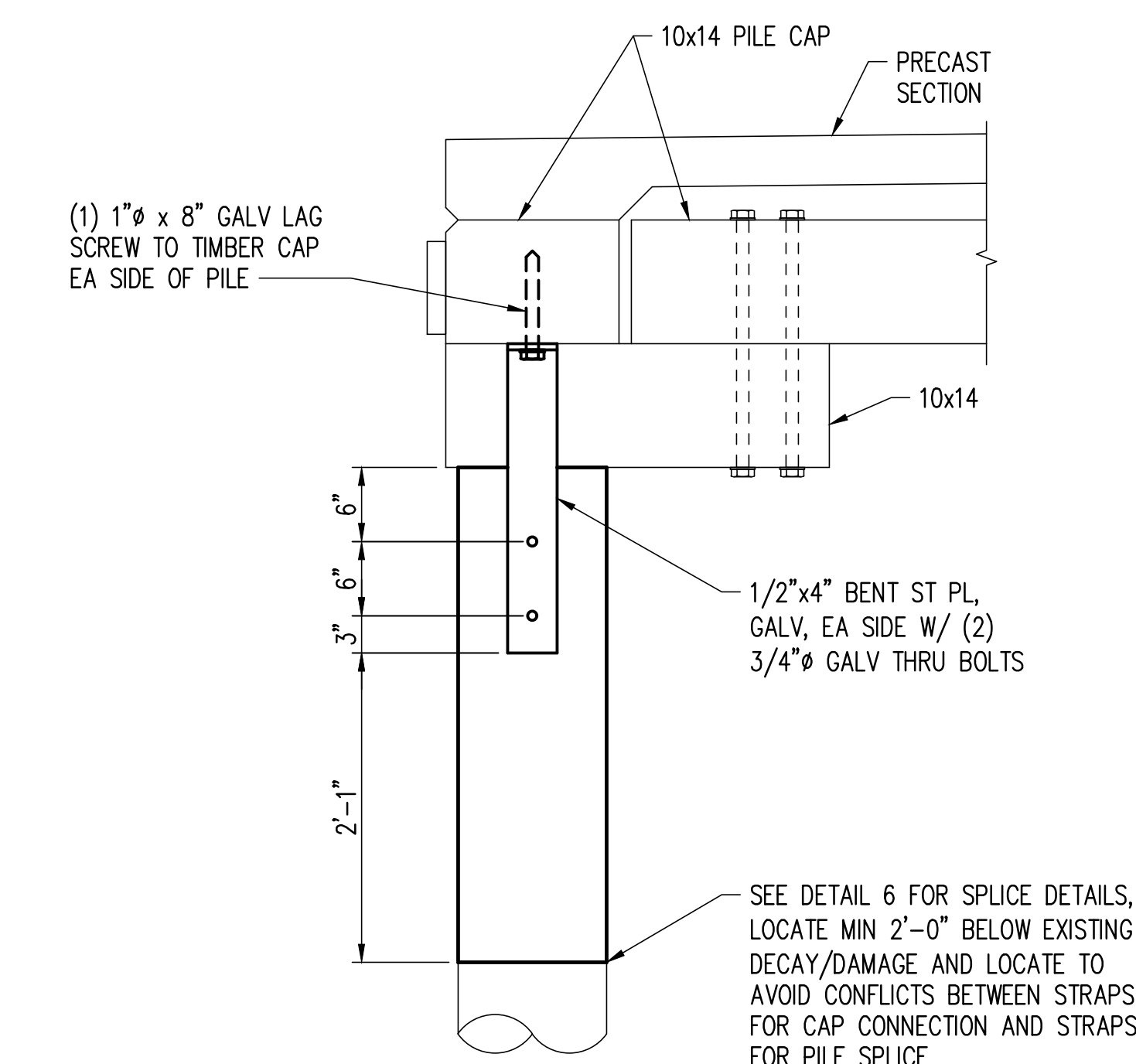
**SECTION 1**  
SCALE: 1" = 1'-0"



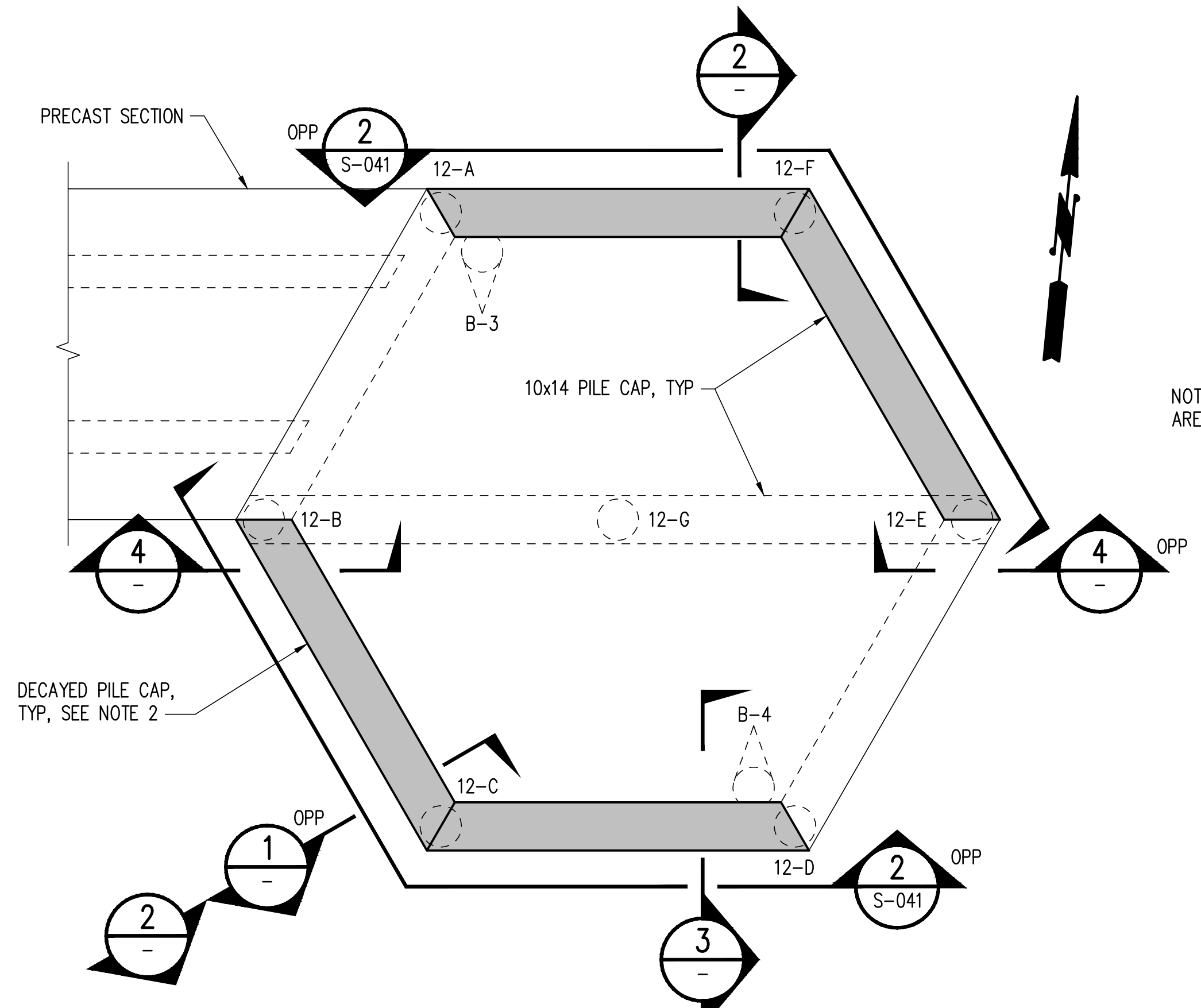
**SECTION 2**  
SCALE: 1" = 1'-0"



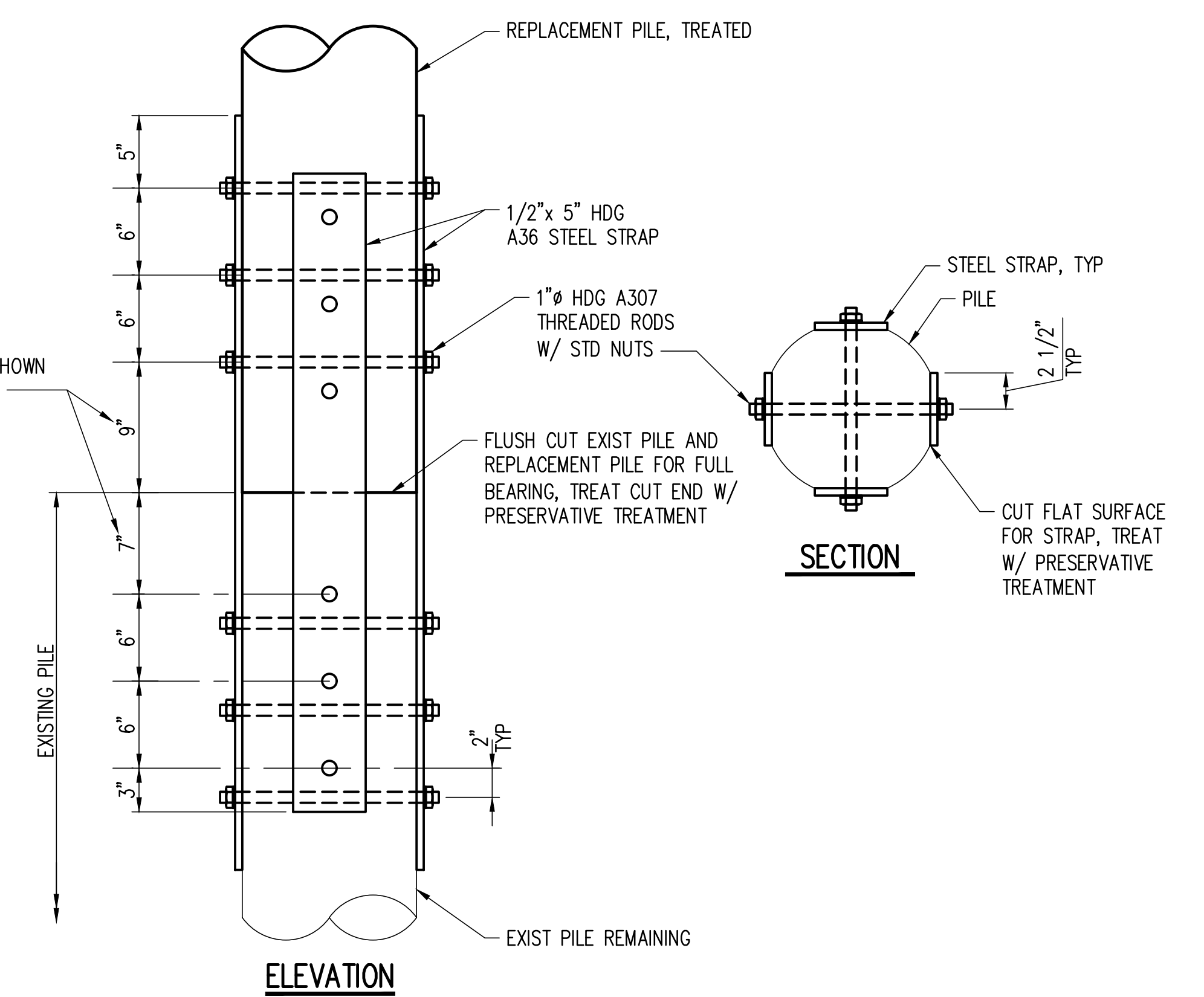
**SECTION 3**  
SCALE: 1" = 1'-0"



**SECTION 4**  
SCALE: 1" = 1'-0"  
S-041



**DETAIL 5**  
SCALE: 3/8" = 1'-0"  
S-011

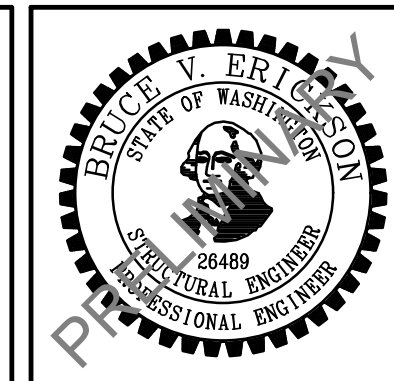


**DETAIL 6**  
SCALE: 1 1/2" = 1'-0"

CAD USER: RICKT PLOT DATE: Apr 12, 2023-03:11pm  
PATH: V:\2000291 (Luther Burbank Pier Repairs)\02\_Design (v2019)\LBPR\_S-040.dwg



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NO.	DATE	BY	REVISION
1A	4/14/2023	WBC	MIFD COMMENT REVISION

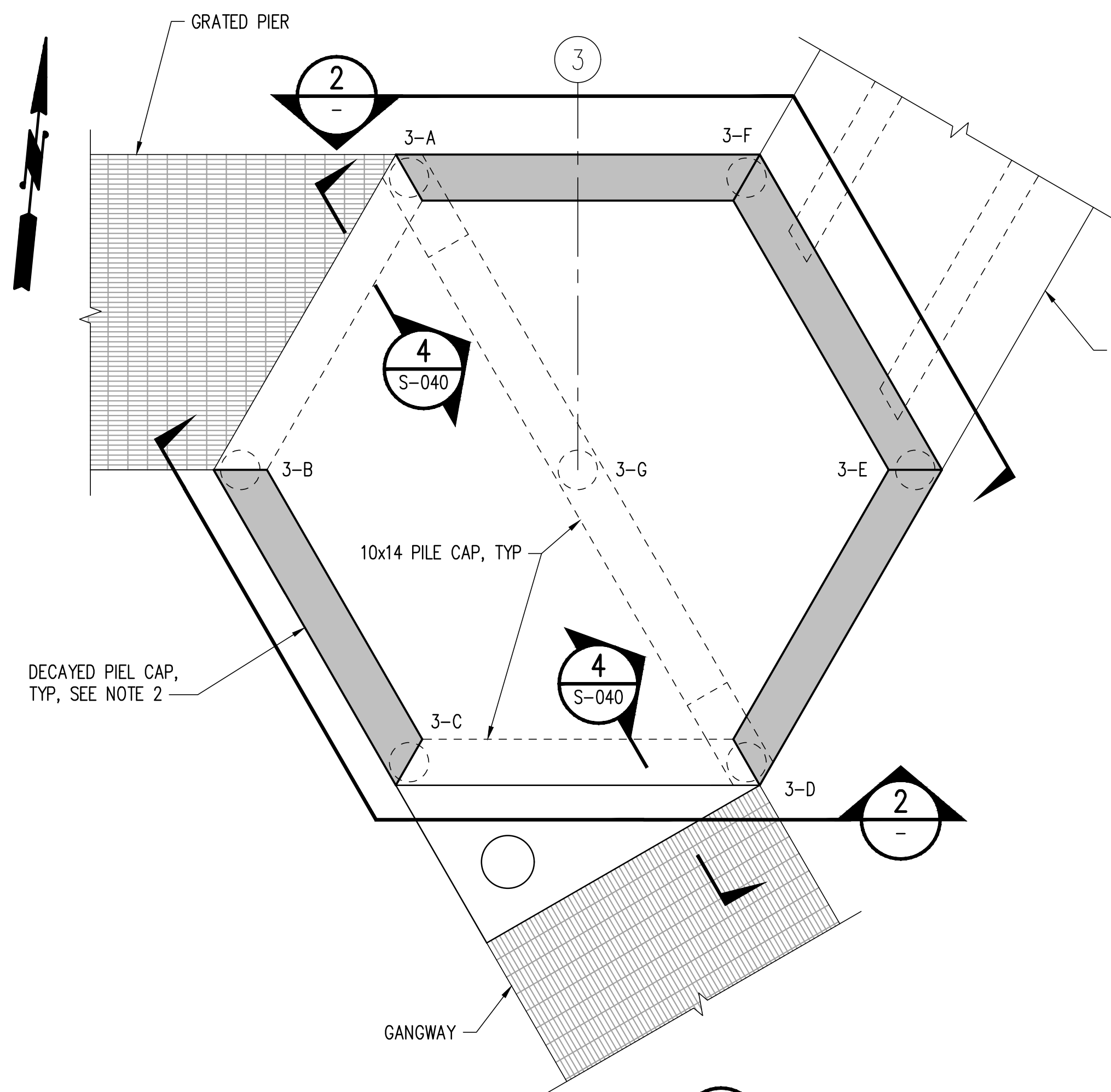


**LUTHER BURBANK PARK  
WATERFRONT IMPROVEMENTS**

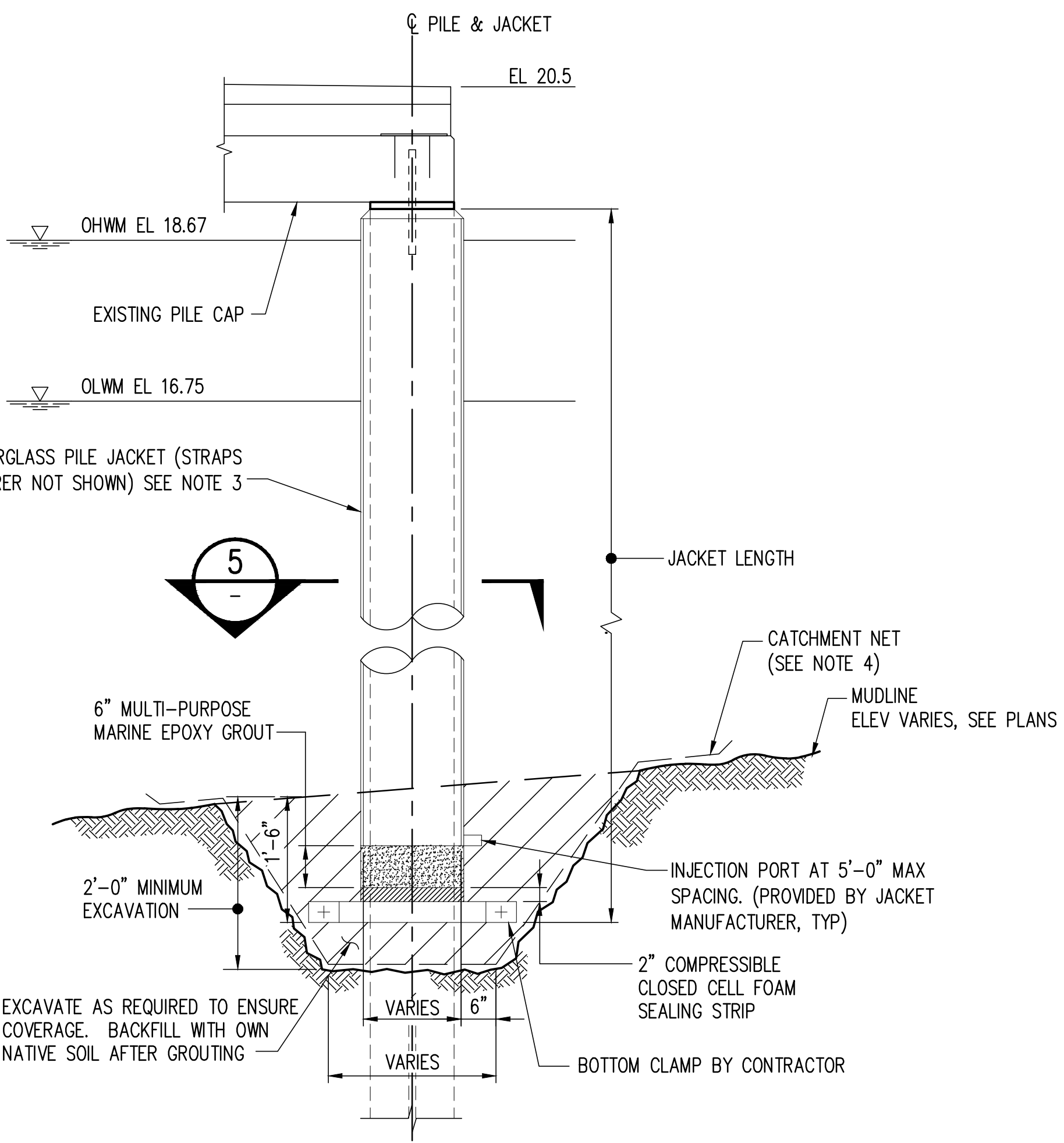
**FIXED PIER REPAIR DETAILS**

DRAWN: RRT	PROJECT NO.: 2200248
DESIGN: WBC	SCALE: AS SHOWN
CHECKED: AKB	DATE: 10/7/2022
DRAWING NO.	<b>S-040</b>
SHEET NO.	52 OF 56

60% SUBMITTAL



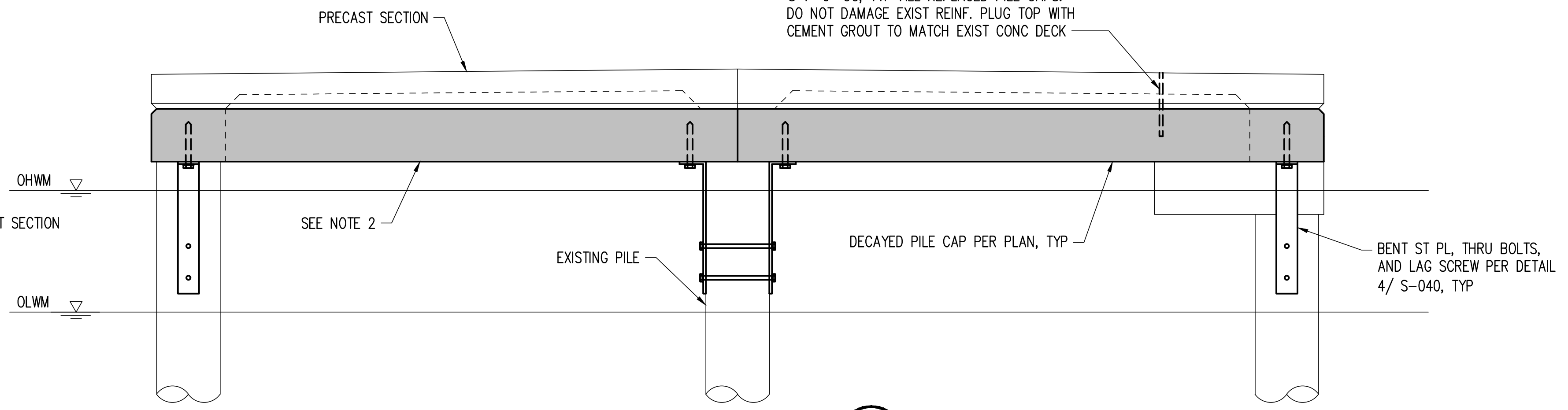
**DETAIL**  
SCALE: 3/8" = 1'-0"  
1



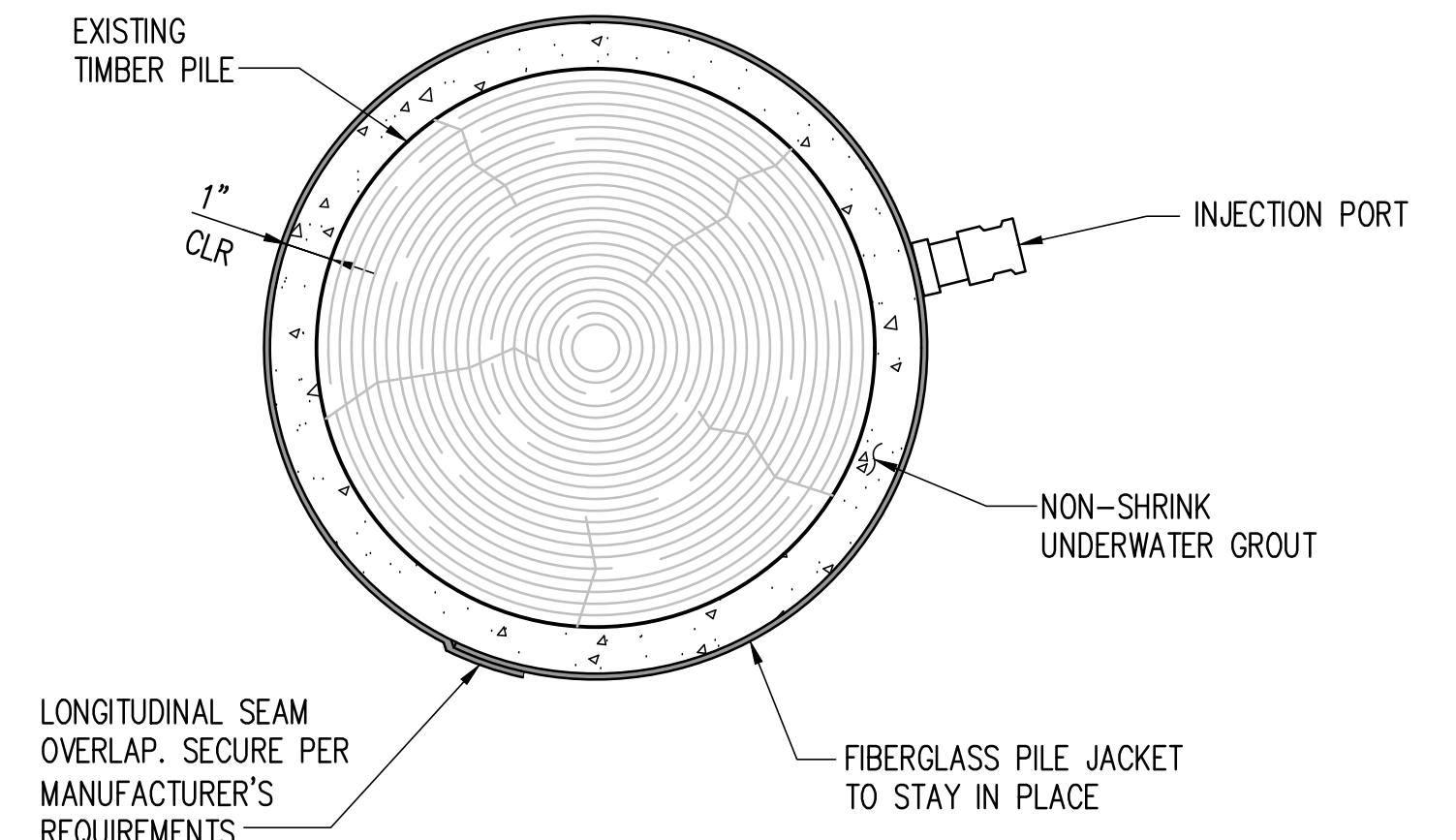
**SECTION**  
SCALE: 3/4" = 1'-0"  
4

5

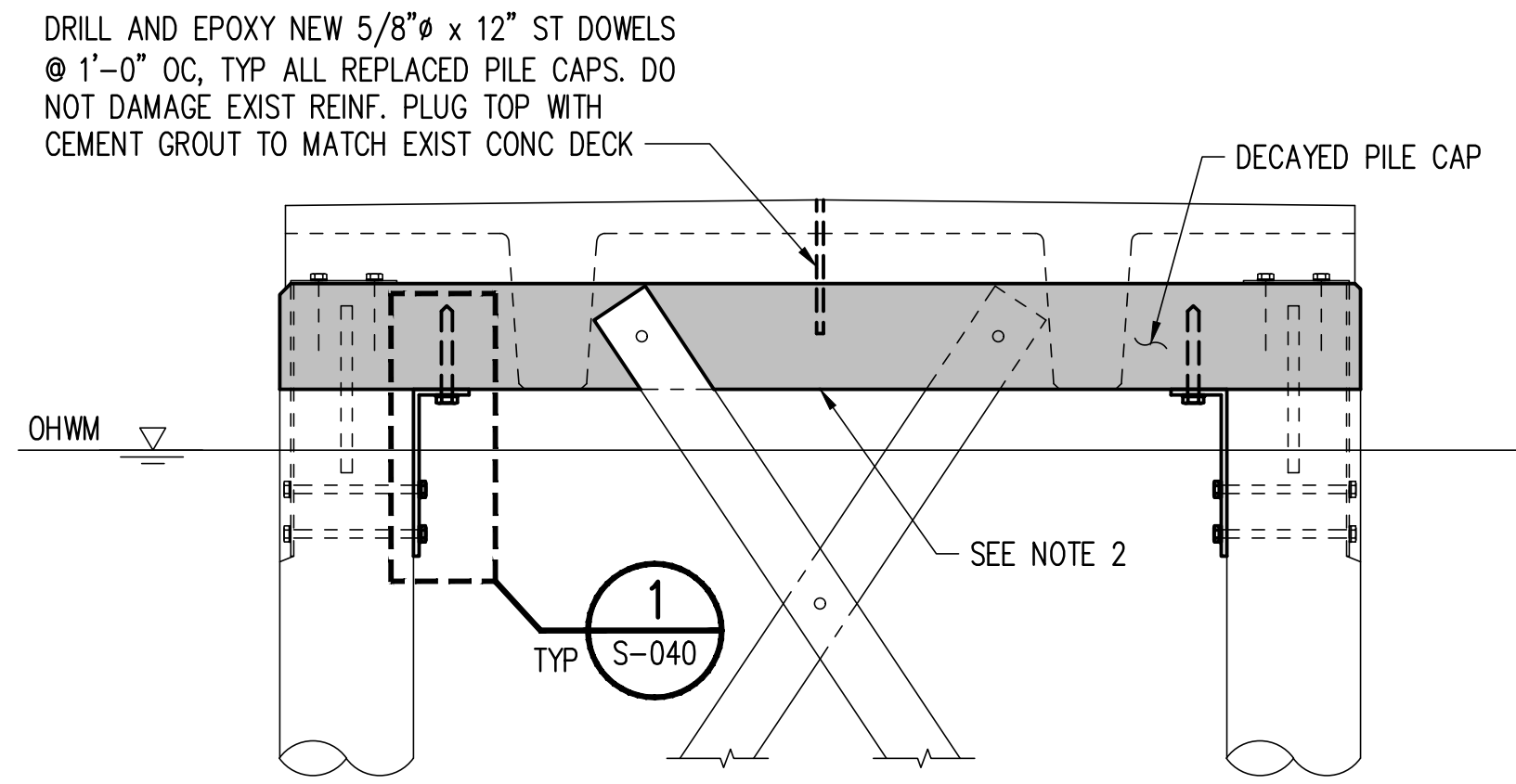
DRILL AND EPOXY NEW 5/8"Ø x 12" STL DOWELS @ 1'-0" OC, TYP ALL REPLACED PILE CAPS. DO NOT DAMAGE EXIST REINF. PLUG TOP WITH CEMENT GROUT TO MATCH EXIST CONC DECK



**SECTION**  
SCALE: 3/4" = 1'-0"  
2



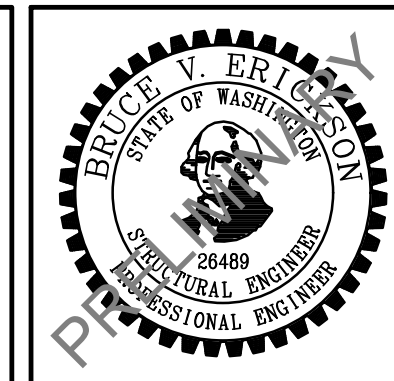
**SECTION**  
SCALE: 3" = 1'-0"  
5



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

- NOTES:**
- SEE DRAWINGS S-030 THRU S-032 FOR EXISTING CONDITIONS.
  - EXTRACT DECAYED PILE CAPS FULL LENGTH WITHOUT DAMAGING EXISTING CONC DECK AND TIMBER PILES, AND REPLACE WITH TREATED 10x14 TIMBERS. REPLACE CONNECTING HARDWARE SHOWN IN EXISTING CONDITIONS UNO.
  - PLACE JACKETS AROUND ALL (38) PILES, INCLUDING PILES REPAIRED PER DETAIL 6/S-040.

CAD USER: RICKT PLOT DATE: Apr 12, 2023-03:13pm  
PATH: V:\2000291 (Luther Burbank Pier Repairs)\02\_Design (v2019)\LBPR\_S-041.dwg



NO.	DATE	BY	REVISION
1A	4/14/2023	WBC	MIFD COMMENT REVISION

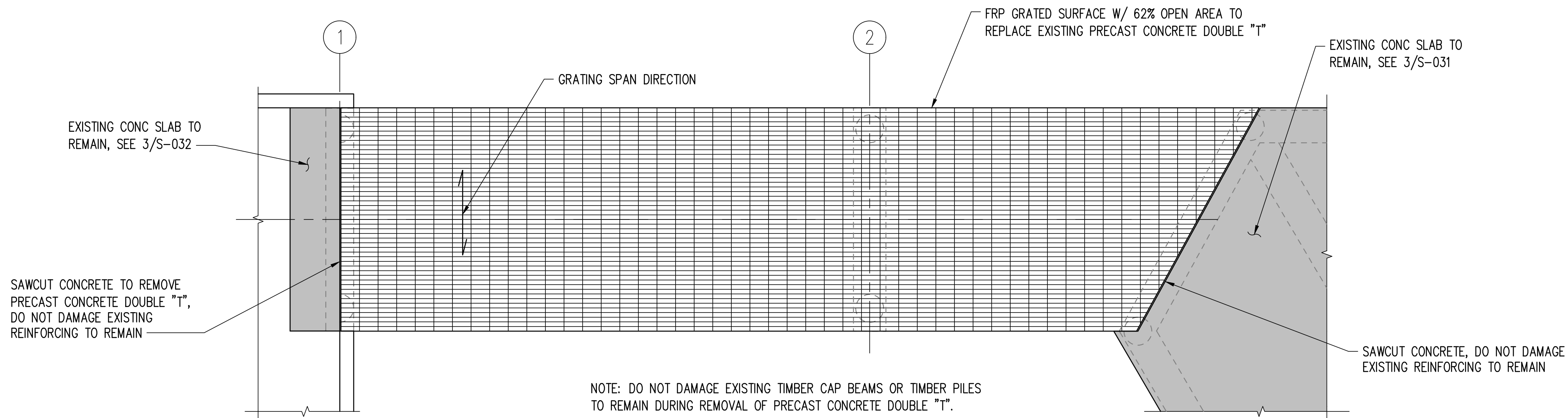


**LUTHER BURBANK PARK  
WATERFRONT IMPROVEMENTS**

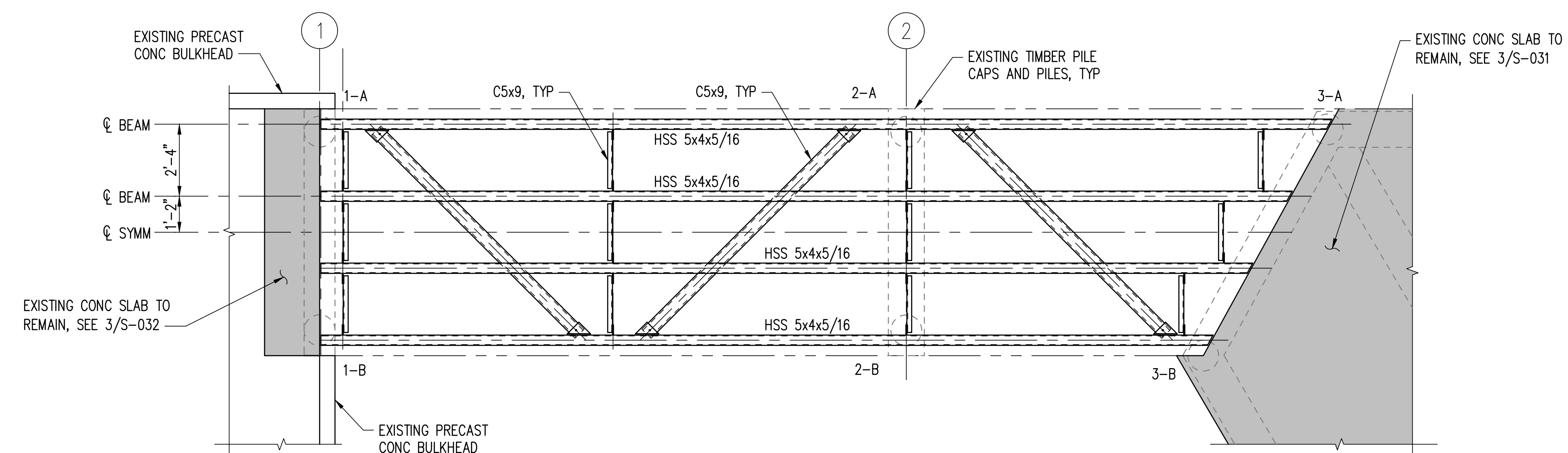
**FIXED PIER REPAIR DETAILS**

DRAWN: RRT	PROJECT NO.: 2200248
DESIGN: WBC	SCALE: AS SHOWN
CHECKED: AKB	DATE: 10/7/2022
DRAWING NO.	<b>S-041</b>
SHEET NO.	53 OF 56

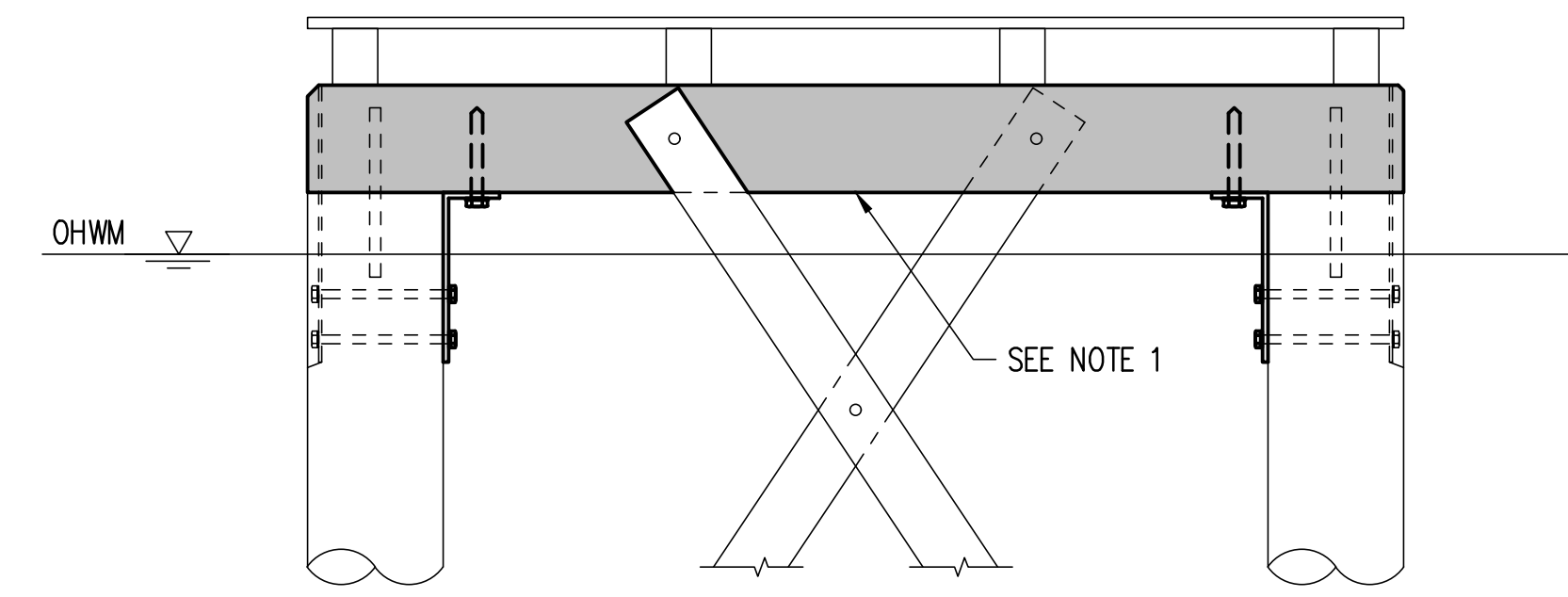
60% SUBMITTAL



**FINISH PLAN DETAIL** 1  
SCALE: 3/8" = 1'-0"



**FRAMING PLAN DETAIL** 2  
SCALE: 3/8" = 1'-0"

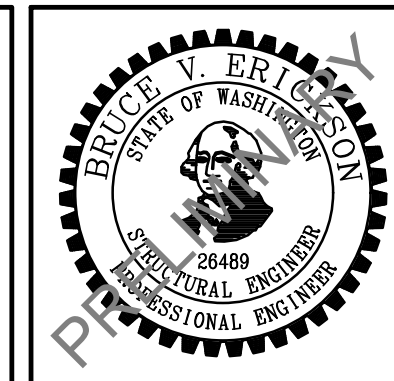


**SECTION** 3  
SCALE: 3/4" = 1'-0"

**NOTES:**

1. EXTRACT DECAYED PILE CAP AT BENT 2 FULL LENGTH WITHOUT DAMAGING EXISTING TIMBER PILES. REPLACE WITH TREATED 10x14 TIMBER. REPLACE CONNECTING HARDWARE SHOWN IN EXISTING CONDITIONS UNO.

CAD USER: RICKT PLOT DATE: Apr 12, 2023-03:14pm  
PATH: V:\2000291 (Luther Burbank Pier Repairs)\02\_Design (v2019)\LBPR\_S-042.dwg



NO.	DATE	BY	REVISION
1A	4/14/2023	WBC	MIFD COMMENT REVISION



**LUTHER BURBANK PARK**  
WATERFRONT IMPROVEMENTS

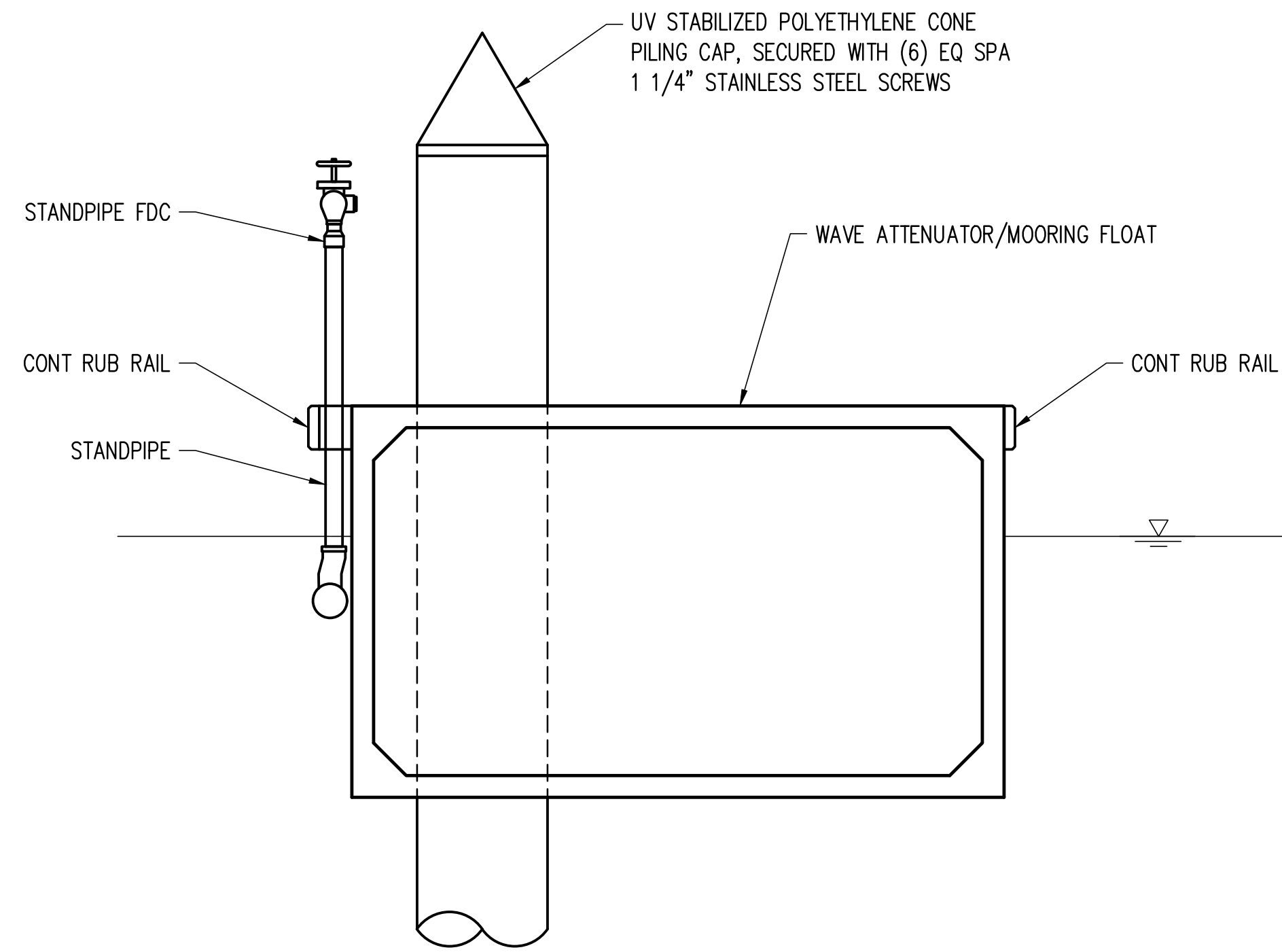
FIXED PIER GRATING DETAILS

DRAWN: RRT	PROJECT NO.: 2200248
DESIGN: WBC	SCALE: AS SHOWN
CHECKED: AKB	DATE: 10/7/2022
DRAWING NO.	<b>S-042</b>
SHEET NO.	54 OF 56

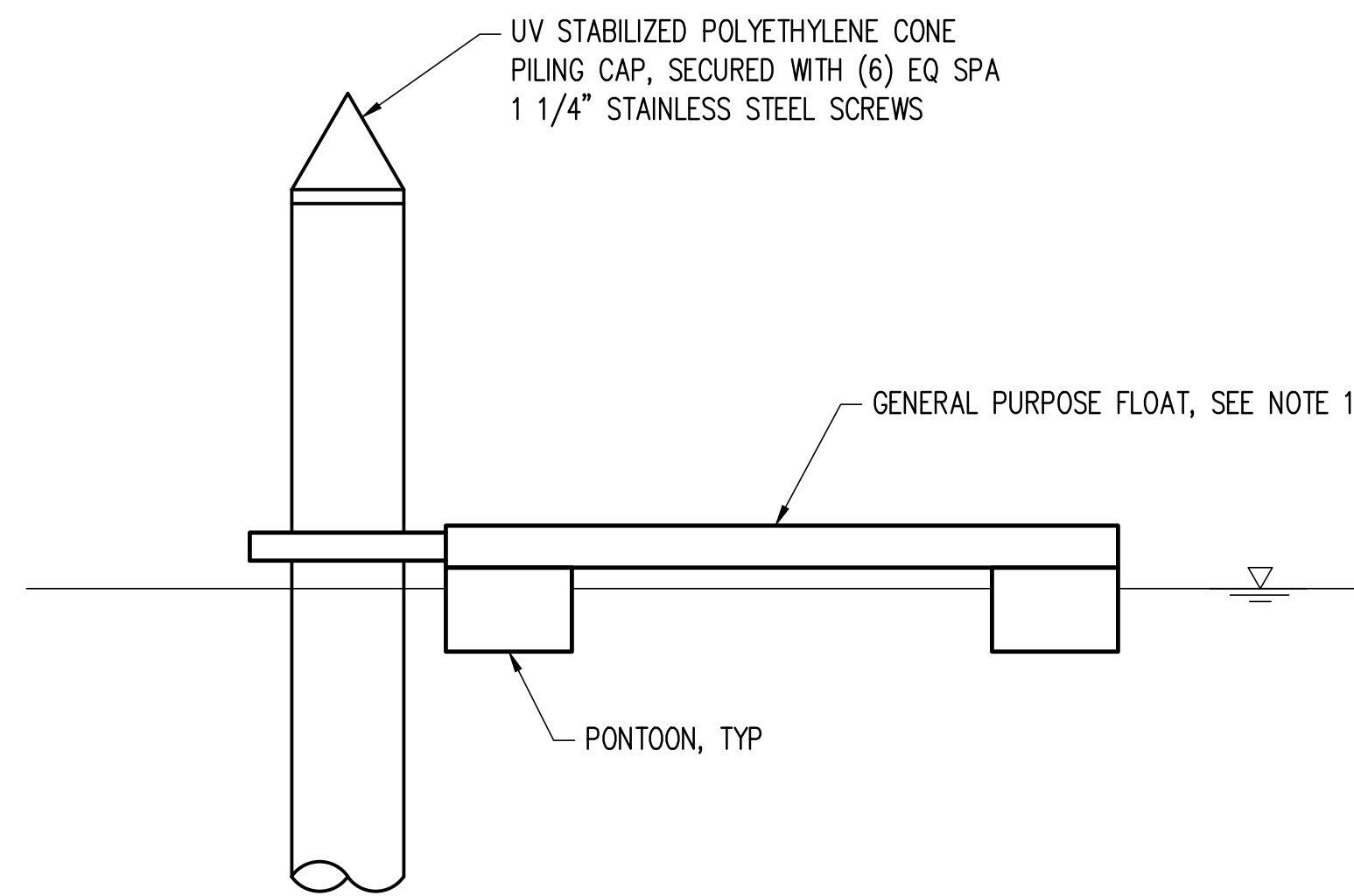
60% SUBMITTAL

**NOTES:**

- 40% MINIMUM LIGHT TRANSMISSION IS REQUIRED. SEE STRUCTURAL NOTES AND SPECIFICATIONS FOR MORE INFORMATION



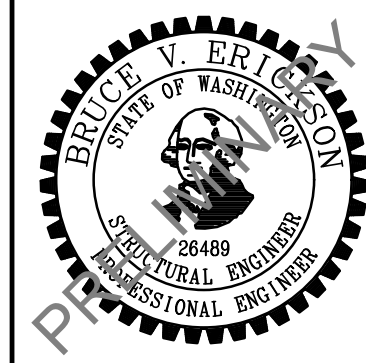
**SECTION 1**  
SCALE: 1/2" = 1'-0"



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

PILE SCHEDULE						
Pile ID	Nominal Dia (in)	Wall t (in)	Cutoff Elev (ft)	Approx Mudline Elev (ft)	Embed (ft)	Tip Elev (ft)
1	16	0.625	20.00	9.00	20.00	-11.00
2	16	0.625	22.00	2.75	20.00	-17.25
3	16	0.625	22.00	-0.25	20.00	-20.25
4	16	0.625	22.00	-1.75	20.00	-21.75
5	16	0.625	22.00	-1.50	20.00	-21.50
6	16	0.625	22.00	-1.00	20.00	-21.00
7	16	0.625	20.00	5.50	20.00	-14.50
8	24	0.625	25.00	-7.50	28.00	-35.50
9	24	0.625	25.00	-10.75	28.00	-38.75
10	24	0.625	25.00	-13.00	28.00	-41.00
11	24	0.625	25.00	-16.00	28.00	-44.00
12	24	0.625	25.00	-16.50	28.00	-44.50
13	24	0.625	25.00	-16.25	28.00	-44.25
14	24	0.625	25.00	-16.25	28.00	-44.25
15	24	0.625	25.00	-16.25	28.00	-44.25
16	24	0.625	25.00	-16.25	28.00	-44.25
17	24	0.625	25.00	-16.00	28.00	-44.00
18	24	0.625	25.00	-15.75	28.00	-43.75
19	24	0.625	25.00	-15.50	28.00	-43.50
20	24	0.625	25.00	-15.50	28.00	-43.50
21	24	0.625	25.00	-15.50	28.00	-43.50
22	24	0.625	25.00	-14.75	28.00	-42.75

CAD USER: RICKT PLOT DATE: Apr 12, 2023-03:14pm  
PATH: V:\2000291 (Luther Burbank Pier Repairs)\02\_Design (v2019)\LBPR\_S-050.dwg



NO.	DATE	BY	REVISION
1	4/14/2023	WBC	LAND USE PERMIT REVISION
1A	4/14/2023	WBC	MIFD COMMENT REVISION



**LUTHER BURBANK PARK  
WATERFRONT IMPROVEMENTS**

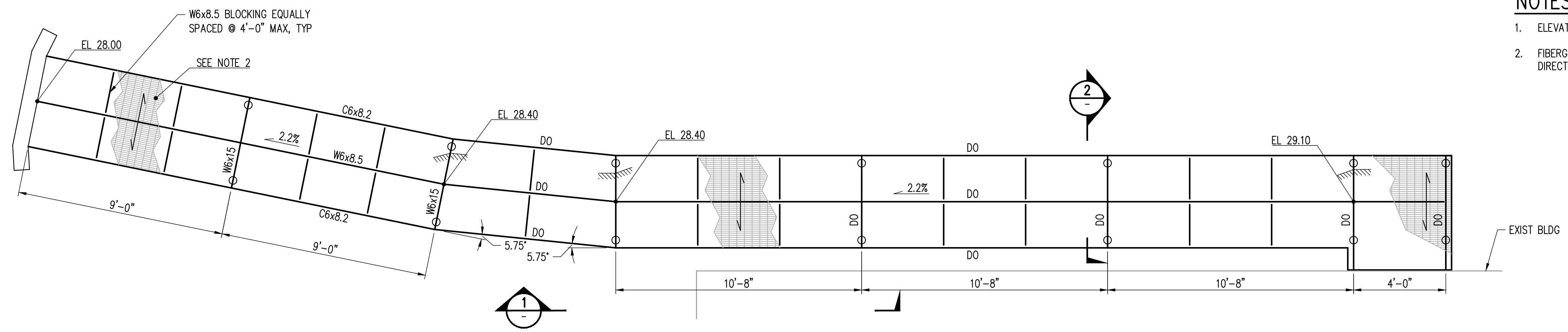
FLOAT DETAILS

DRAWN: RRT	PROJECT NO.: 2200248
DESIGN: WBC	SCALE: AS SHOWN
CHECKED: AKB	DATE: 10/7/2022
DRAWING NO.	<b>S-050</b>
SHEET NO.	55 OF 56

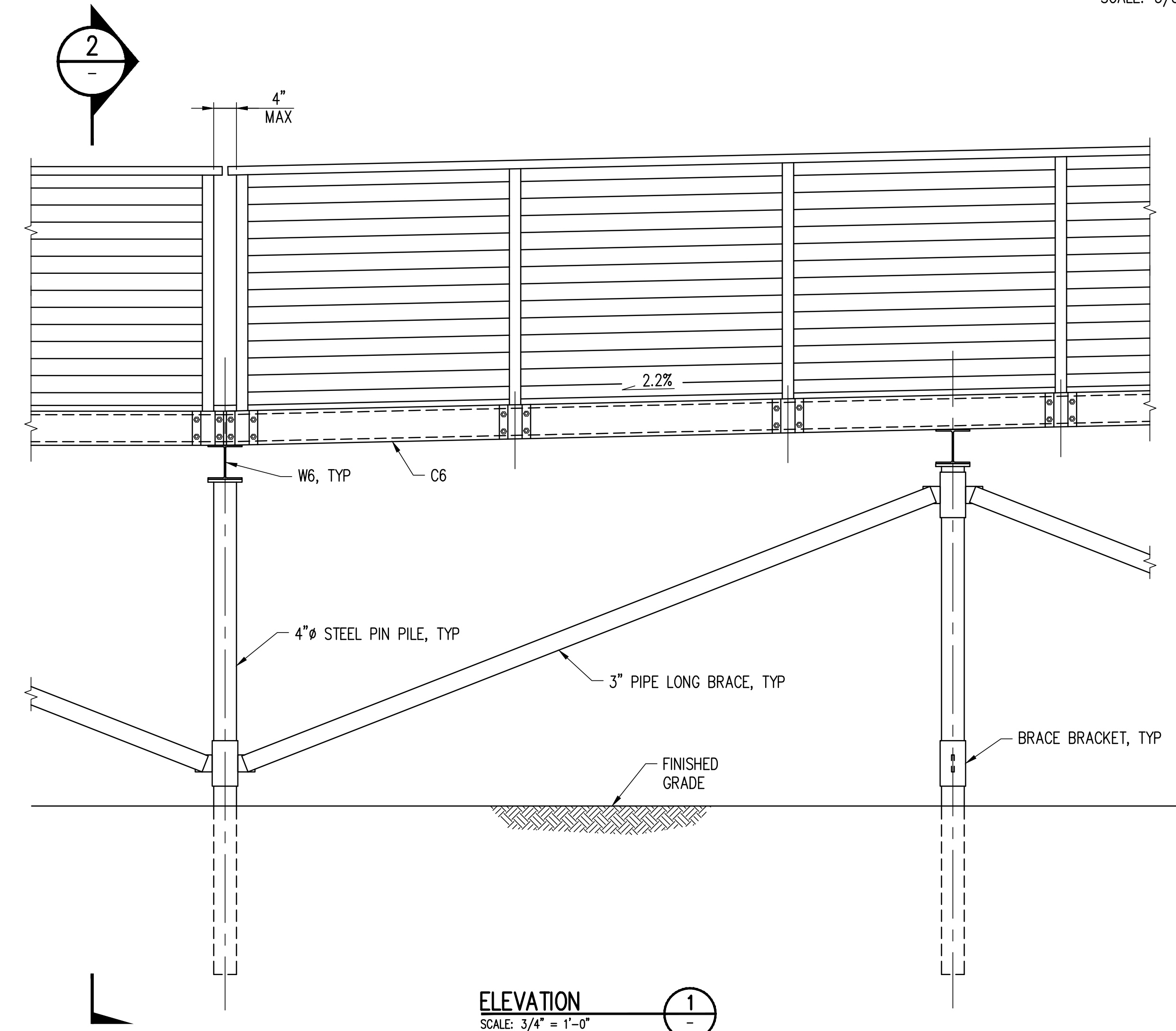
60% SUBMITTAL

**NOTES:**

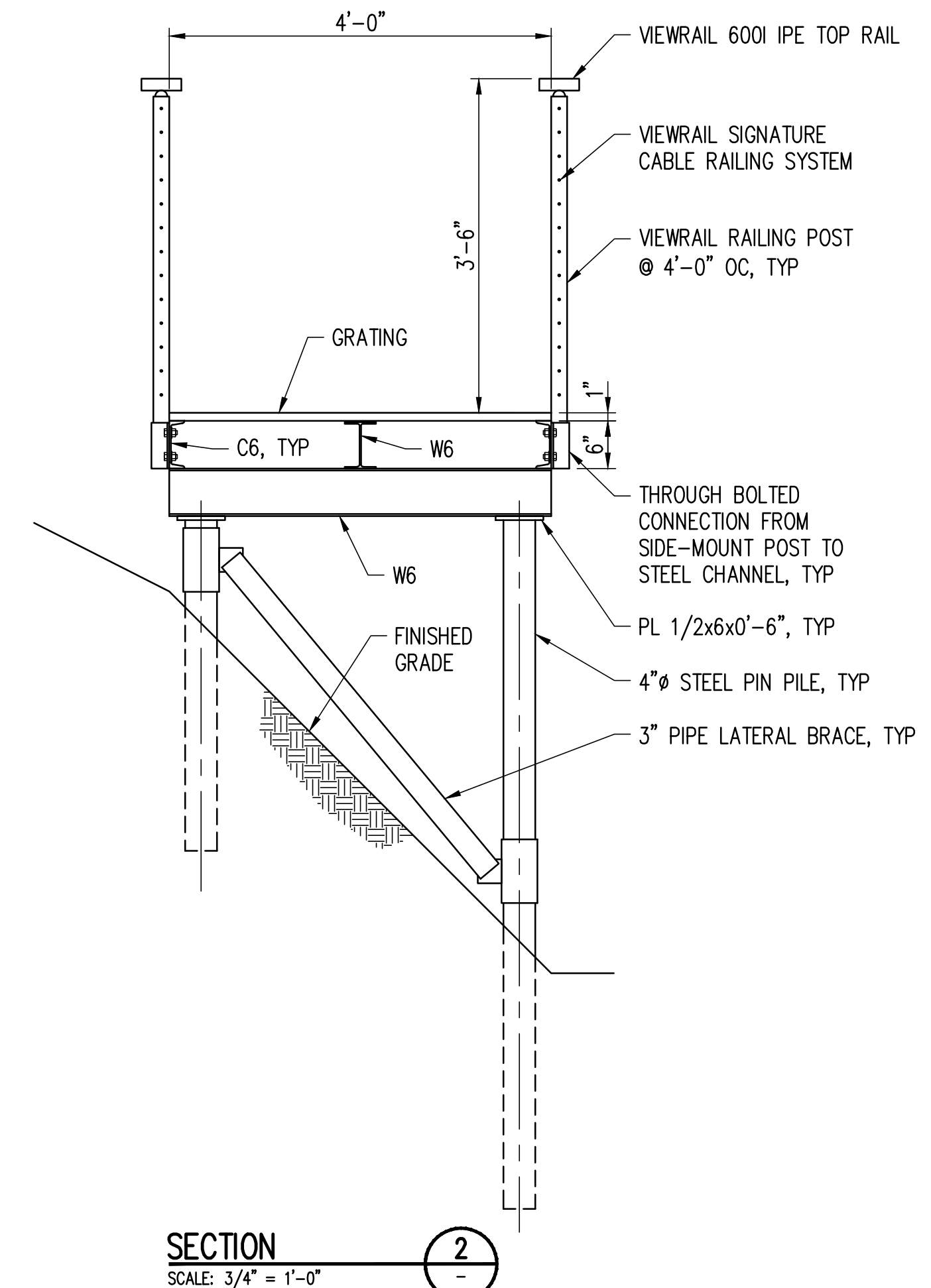
1. ELEVATIONS SHOWN ARE TOP OF GRATING SURFACE.
2. FIBERGRATE AQUA GRATE T1210 OR APPROVED EQUAL, SPAN DIRECTION AS SHOWN.



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

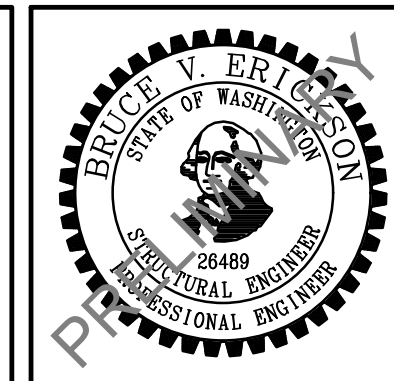


**ELEVATION**  
SCALE: 3/4" = 1'-0"



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

CAD USER: RICKT PLOT DATE: Apr 12, 2023-03:17pm  
PATH: V:\2000291 (Luther Burbank Pier Repairs)\02\_Design (v2019)\LBPR\_S-060.dwg



NO.	DATE	BY	REVISION
1	4/14/2023	WBC	LAND USE PERMIT REVISION
1A	4/14/2023	WBC	MIFD COMMENT REVISION



**LUTHER BURBANK PARK**  
WATERFRONT IMPROVEMENTS

VIEWING DECK ELEVATED ACCESS PATH

DRAWN: RRT	PROJECT NO.: 2200248
DESIGN: WBC	SCALE: AS SHOWN
CHECKED: AKB	DATE: 10/7/2022
DRAWING NO.	<b>S-060</b>
SHEET NO.	56 OF 56

60% SUBMITTAL