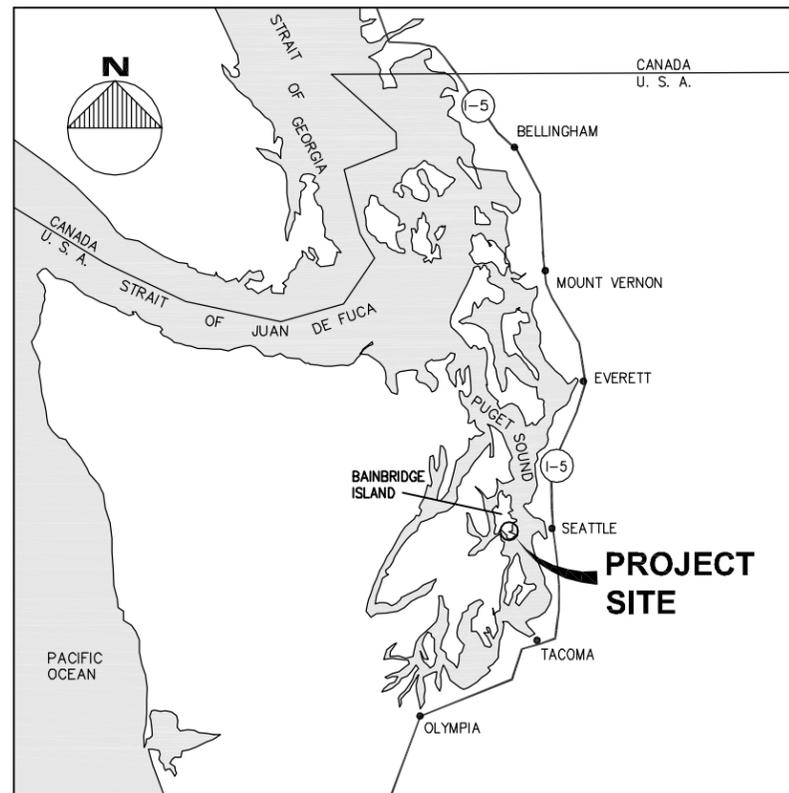
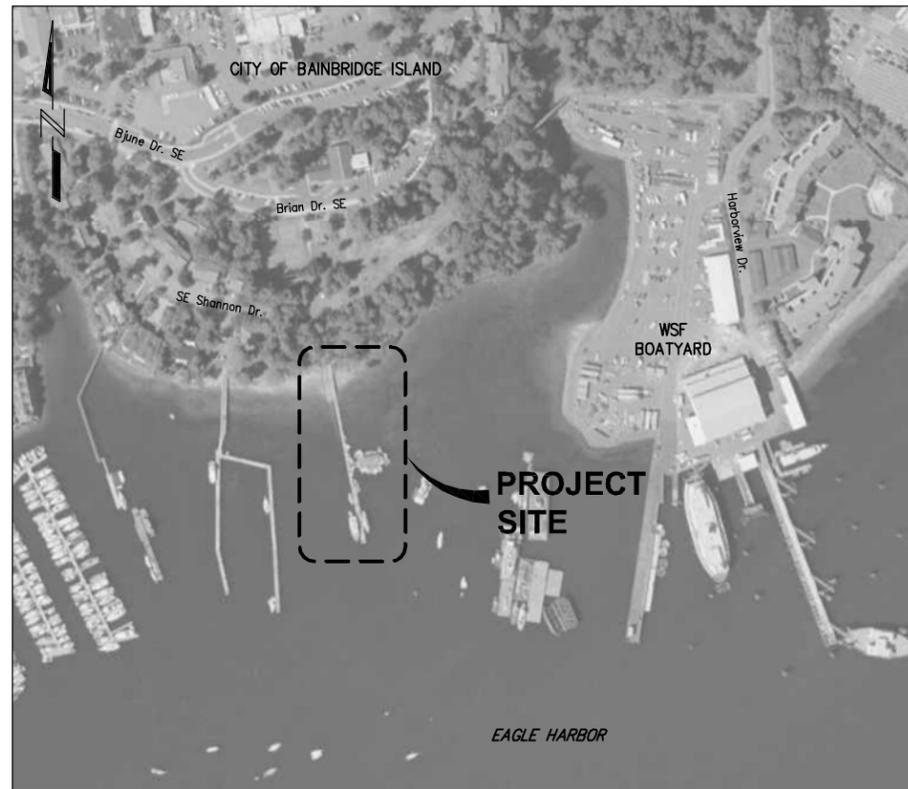


# CITY OF BAINBRIDGE ISLAND

## WATERFRONT DOCK RENOVATION



VICINITY MAP



SITE MAP

SHEET INDEX	No.
TITLE SHEET AND INDEX	1
EXISTING SITE PLAN	2
EXISTING SITE DEMOLITION PLAN	3
EXISTING DOCK DEMOLITION PLAN	4
PROPOSED PLAN AND PROFILE	5
DETAILS	6
BOARDING FLOAT DETAILS	7
MOORING FLOAT DETAILS	8
LOW FREEBOARD FLOAT DETAILS	9
UTILITY DETAILS	10

**DATUM**  
ELEVATION DATUM FOR THIS PROJECT IS 0.0' MEAN LOWER LOW WATER (MLLW)

**TIDAL DATA**  
BASED ON WASHINGTON DEPARTMENT OF ECOLOGY'S PUBLICATION "WASHINGTON STATE TIDAL AND TERRESTRIAL DATUM PLANES", DATED SEPTEMBER 1994. THE RELATIONSHIP BETWEEN NGVD 1929 AND MLLW DATUMS FOR PORT BLAKELY, NORTH PUGET SOUND IS AS FOLLOWS:

HIGHEST RECORDED TIDE ESTIMATE (EHW)	+15.00'
MEAN HIGHER HIGH WATER (MHHW)	+11.50'
MEAN HIGH WATER (MHW)	+10.60'
N.G.V.D. 1929	+6.12
MEAN LOW WATER (MLW)	+2.80
MEAN LOWER LOW WATER (MLLW)	0.00'
LOWEST RECORDED TIDE (ESTIMATED)	-4.50'

60% SUBMITTAL

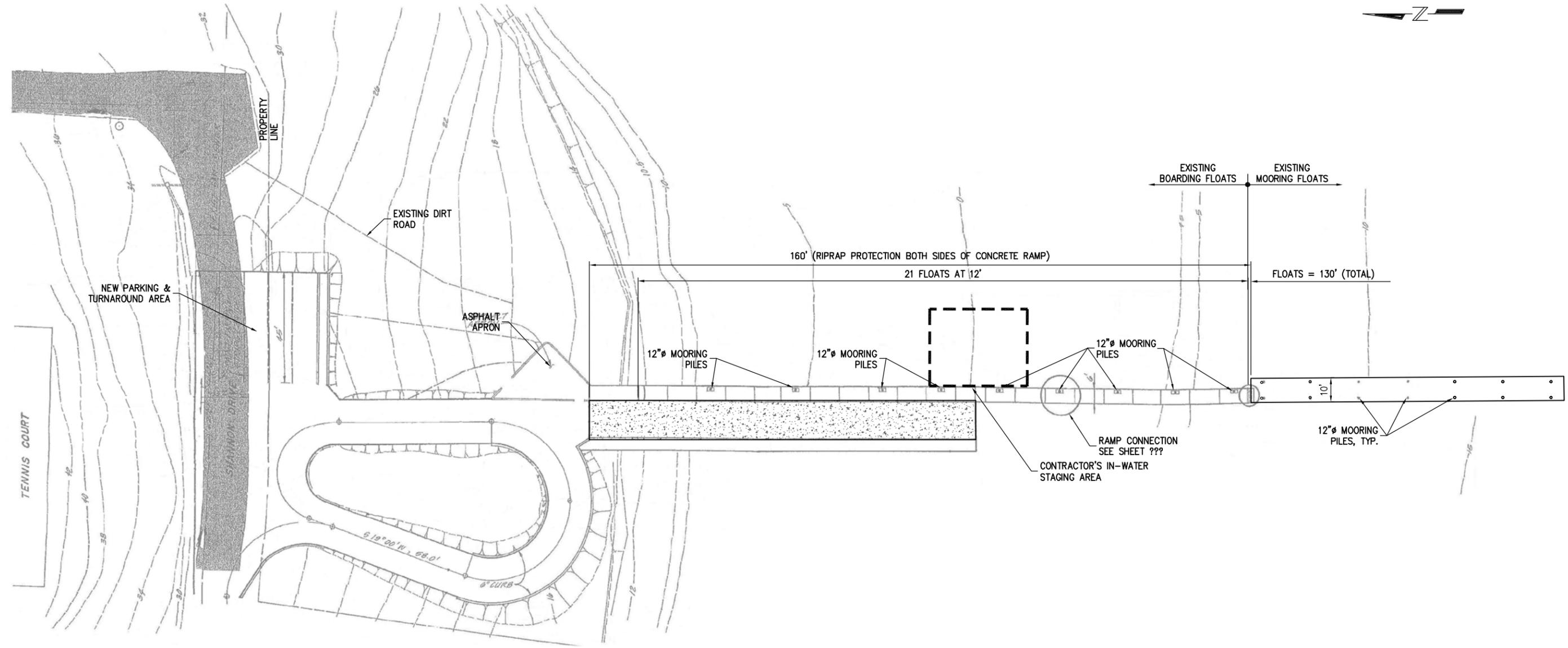


1736 Fourth Avenue S., Suite A  
Seattle, Washington 98134  
P: 206.624.1387  
www.pndengineers.com

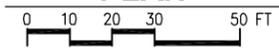
PND ENGINEERS, INC. IS NOT RESPONSIBLE FOR SAFETY PROGRAMS, METHODS OR PROCEDURES OF OPERATION, OR THE CONSTRUCTION OF THE DESIGN SHOWN ON THESE DRAWINGS. WHERE SPECIFICATIONS ARE GENERAL OR NOT CALLED OUT, THE SPECIFICATIONS SHALL CONFORM TO STANDARDS OF INDUSTRY. DRAWINGS ARE FOR USE ON THIS PROJECT ONLY AND ARE NOT INTENDED FOR REUSE WITHOUT WRITTEN APPROVAL FROM PND. DRAWINGS ARE ALSO NOT TO BE USED IN ANY MANNER THAT WOULD CONSTITUTE A DETRIMENT DIRECTLY OR INDIRECTLY TO PND.

REVISIONS		
REV	DATE	DESCRIPTION

PROJECT: <b>CITY OF BAINBRIDGE ISLAND WATERFRONT DOCK RENOVATION</b>			
TITLE: <b>TITLE SHEET AND INDEX</b>			
DESIGNED BY: NA	PROJECT NO: 154022.01	SHEET NO:	
DRAWN BY: DM	DATE: JULY 2015	1 OF 10	
CHECKED BY:	SCALE: NOTED		



**PLAN**



**NOTE:**  
 EXISTING SITE PLAN DRAWING IS TAKEN FROM REID MIDDLETON & ASSOCIATES  
 CITY OF WINSLOW - WATERFRONT PARK IMPROVEMENT DRAWING C3  
 (DECEMBER, 1985). ACTUAL SITE LOCATIONS MAY VARY.

7/10/2015 15:40:22 - BAINBRIDGE IS CITY DOCK IMPROVEMENTS 60% SUBMITTAL 154022.01-02.DWG

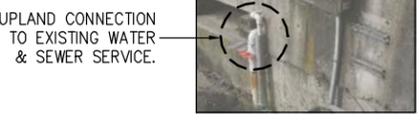
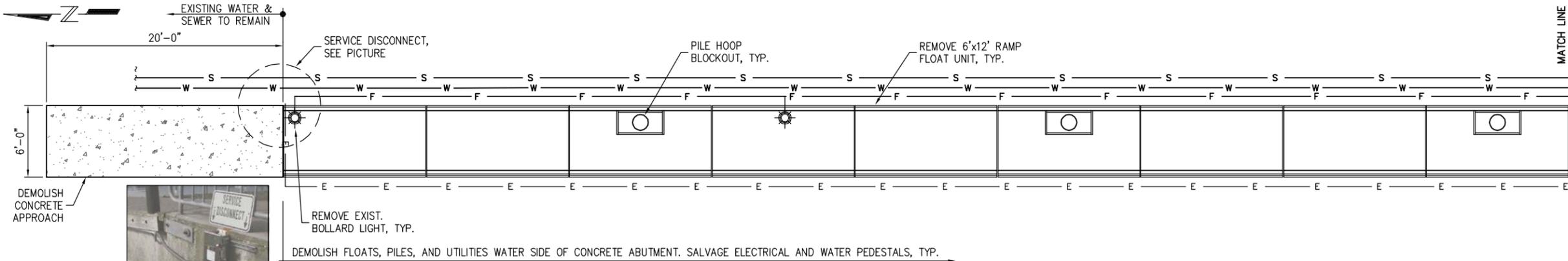
**P N D**  
**ENGINEERS, INC.**  
 1736 Fourth Avenue S., Suite A  
 Seattle, Washington 98134  
 P: 206.624.1387  
 www.pndengineers.com

PND ENGINEERS, INC. IS NOT RESPONSIBLE FOR SAFETY PROGRAMS, METHODS OR PROCEDURES OF OPERATION, OR THE CONSTRUCTION OF THE DESIGN SHOWN ON THESE DRAWINGS. WHERE SPECIFICATIONS ARE GENERAL OR NOT CALLED OUT, THE SPECIFICATIONS SHALL CONFORM TO STANDARDS OF INDUSTRY. DRAWINGS ARE FOR USE ON THIS PROJECT ONLY AND ARE NOT INTENDED FOR REUSE WITHOUT WRITTEN APPROVAL FROM PND. DRAWINGS ARE ALSO NOT TO BE USED IN ANY MANNER THAT WOULD CONSTITUTE A DETRIMENT DIRECTLY OR INDIRECTLY TO PND.

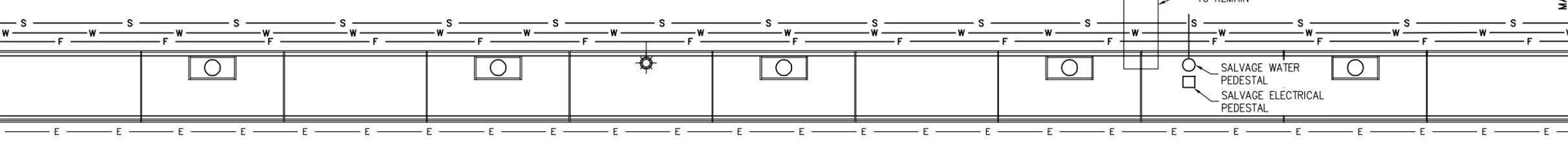
REVISIONS		
REV	DATE	DESCRIPTION

PROJECT: <b>CITY OF BAINBRIDGE ISLAND WATERFRONT DOCK RENOVATION</b>			
TITLE: <b>EXISTING SITE PLAN</b>			
DESIGNED BY: NA	PROJECT NO: 154022.01	SHEET NO:	
DRAWN BY: DM	DATE: JULY 2015	2 OF 10	
CHECKED BY:	SCALE:	NOTED	



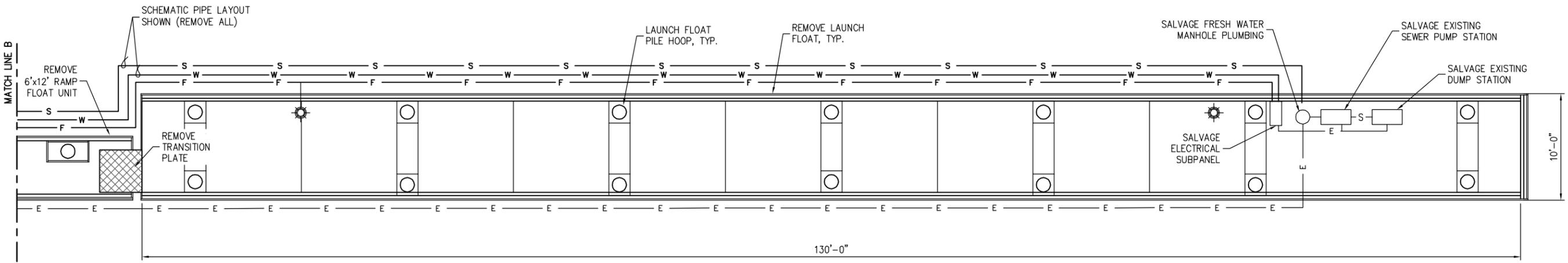


**SERVICE DISCONNECT ELEVATION**



**LEGEND**

— S —	EXISTING SEWER
— W —	EXISTING WATER
— E —	EXISTING ELECTRICAL
— F —	EXISTING FIRE



**PLAN**

60% SUBMITTAL

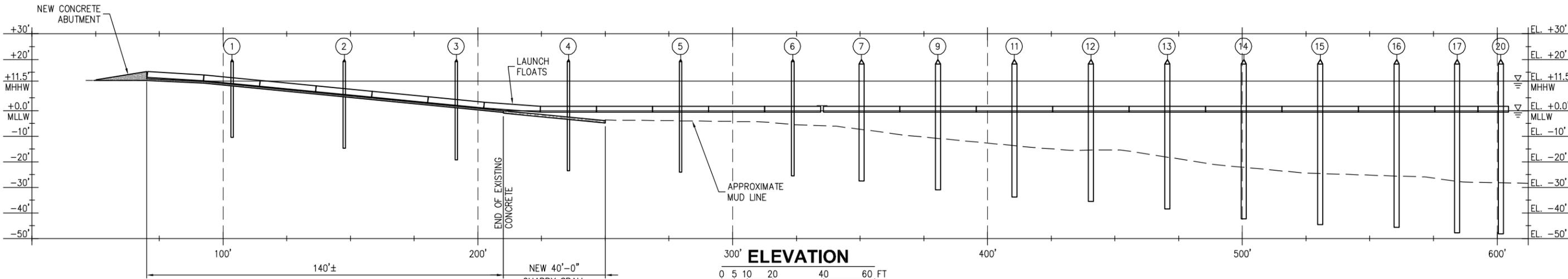
**P N D**  
ENGINEERS, INC.  
1736 Fourth Avenue S., Suite A  
Seattle, Washington 98134  
P: 206.624.1387  
www.pndengineers.com

PND ENGINEERS, INC. IS NOT RESPONSIBLE FOR SAFETY PROGRAMS, METHODS OR PROCEDURES OF OPERATION, OR THE CONSTRUCTION OF THE DESIGN SHOWN ON THESE DRAWINGS. WHERE SPECIFICATIONS ARE GENERAL OR NOT CALLED OUT, THE SPECIFICATIONS SHALL CONFORM TO STANDARDS OF INDUSTRY. DRAWINGS ARE FOR USE ON THIS PROJECT ONLY AND ARE NOT INTENDED FOR REUSE WITHOUT WRITTEN APPROVAL FROM PND. DRAWINGS ARE ALSO NOT TO BE USED IN ANY MANNER THAT WOULD CONSTITUTE A DETRIMENT DIRECTLY OR INDIRECTLY TO PND.

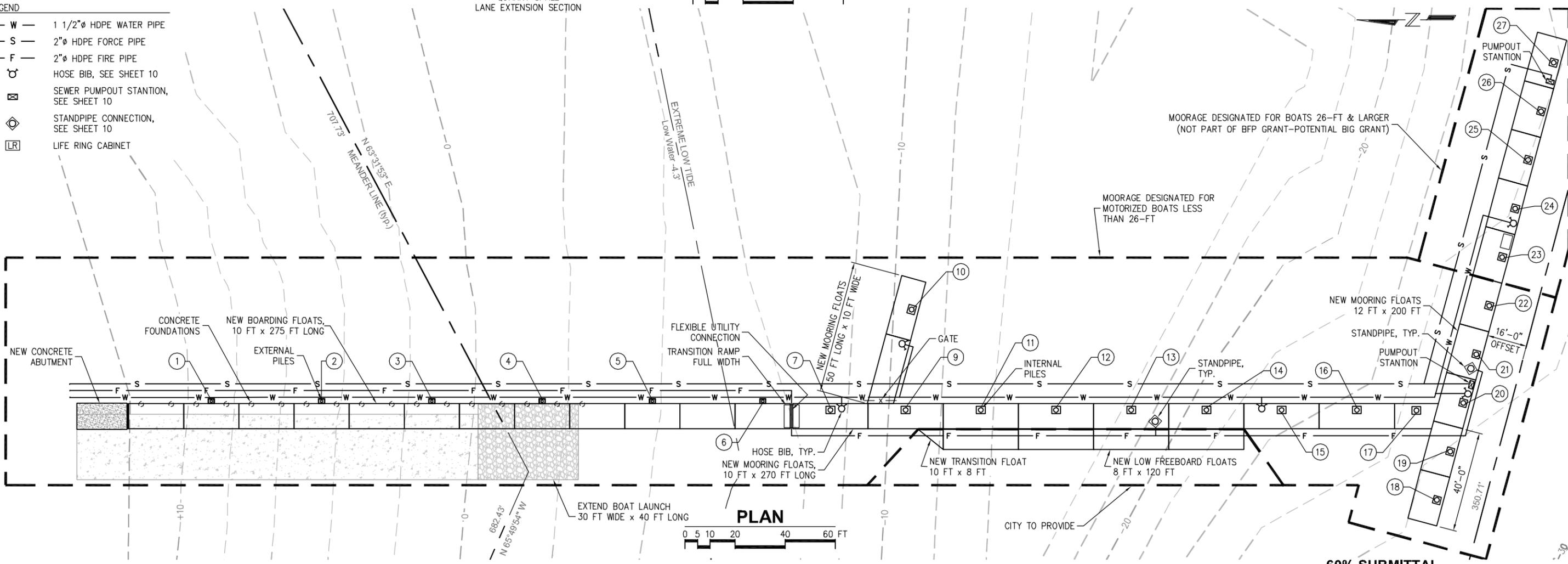
REVISIONS		
REV	DATE	DESCRIPTION

PROJECT: <b>CITY OF BAINBRIDGE ISLAND WATERFRONT DOCK RENOVATION</b>			
TITLE: <b>EXISTING DOCK DEMOLISH PLAN</b>			
DESIGNED BY: NA	PROJECT NO: 154022.01	SHEET NO:	
DRAWN BY: DM	DATE: JULY 2015	4 OF 10	
CHECKED BY:	SCALE: NOTED		

7/10/2015 15:40:22 - BAINBRIDGE IS CITY DOCK IMPROVEMENTS 60% SUBMITTAL 154022.01-04.DWG



- LEGEND**
- W — 1 1/2" HDPE WATER PIPE
  - S — 2" HDPE FORCE PIPE
  - F — 2" HDPE FIRE PIPE
  - ⊕ HOSE BIB, SEE SHEET 10
  - ⊠ SEWER PUMPOUT STANTION, SEE SHEET 10
  - ⊡ STANDPIPE CONNECTION, SEE SHEET 10
  - ⊞ LIFE RING CABINET



60% SUBMITTAL

7/20/2015 15:40:22 - BAINBRIDGE IS CITY DOCK IMPROVEMENTS 60% SUBMITTAL 154022.01-05.DWG

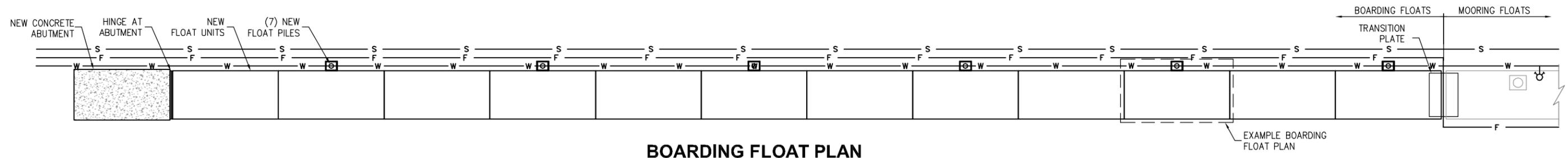
**PND ENGINEERS, INC.**  
 1736 Fourth Avenue S, Suite A  
 Seattle, Washington 98134  
 P: 206.624.1387  
 www.pndengineers.com

PND ENGINEERS, INC. IS NOT RESPONSIBLE FOR SAFETY PROGRAMS, METHODS OR PROCEDURES OF OPERATION, OR THE CONSTRUCTION OF THE DESIGN SHOWN ON THESE DRAWINGS. WHERE SPECIFICATIONS ARE GENERAL OR NOT CALLED OUT, THE SPECIFICATIONS SHALL CONFORM TO STANDARDS OF INDUSTRY. DRAWINGS ARE FOR USE ON THIS PROJECT ONLY AND ARE NOT INTENDED FOR REUSE WITHOUT WRITTEN APPROVAL FROM PND. DRAWINGS ARE ALSO NOT TO BE USED IN ANY MANNER THAT WOULD CONSTITUTE A DETRIMENT DIRECTLY OR INDIRECTLY TO PND.

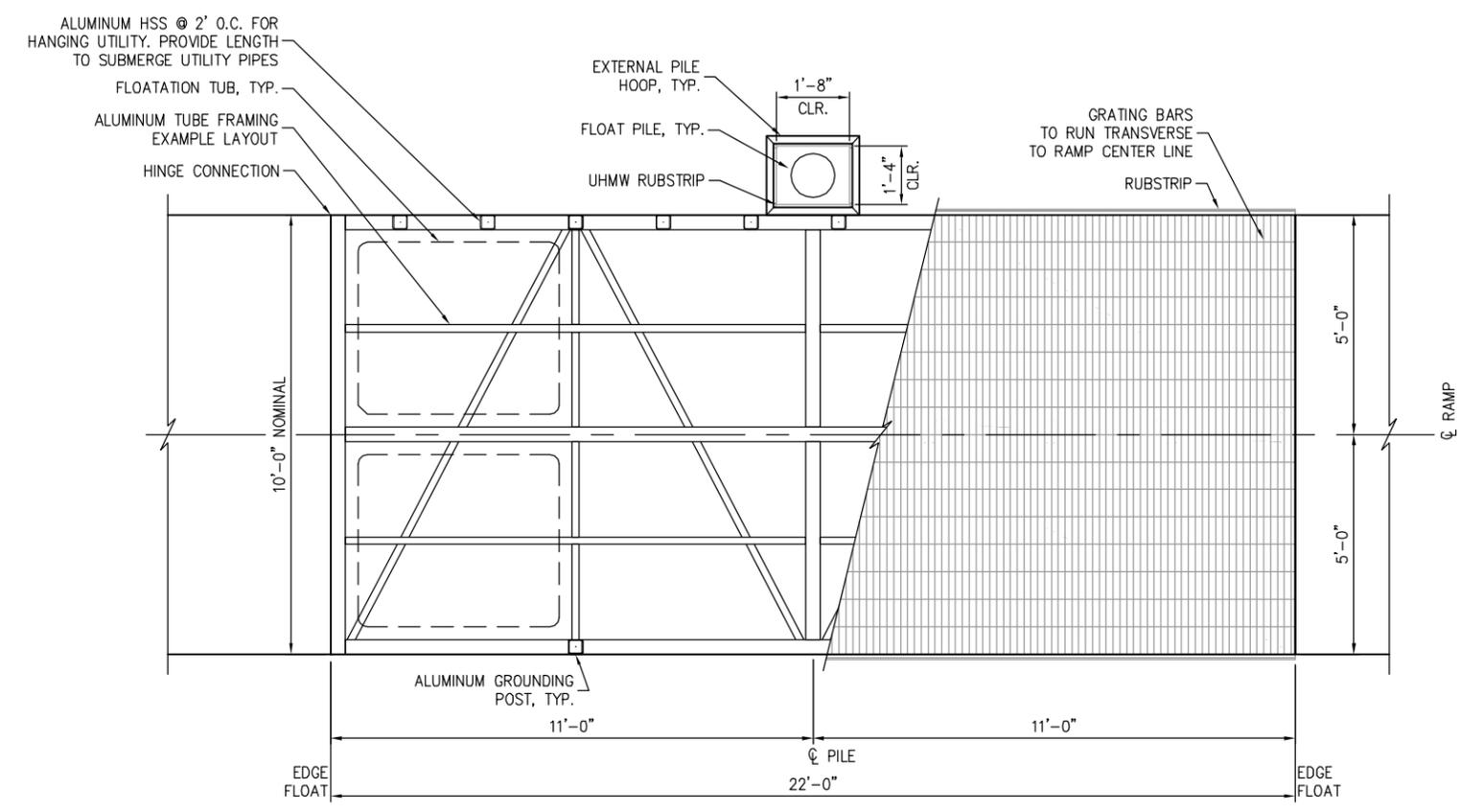
REVISIONS		
REV	DATE	DESCRIPTION

PROJECT: <b>CITY OF BAINBRIDGE ISLAND WATERFRONT DOCK RENOVATION</b>			
TITLE: <b>PROPOSED PLAN AND PROFILE</b>			
DESIGNED BY: NA	PROJECT NO: 154022.01	SHEET NO: 5 OF 10	
DRAWN BY: DM	DATE: JULY 2015	NOTED	
CHECKED BY:	SCALE:	NOTED	

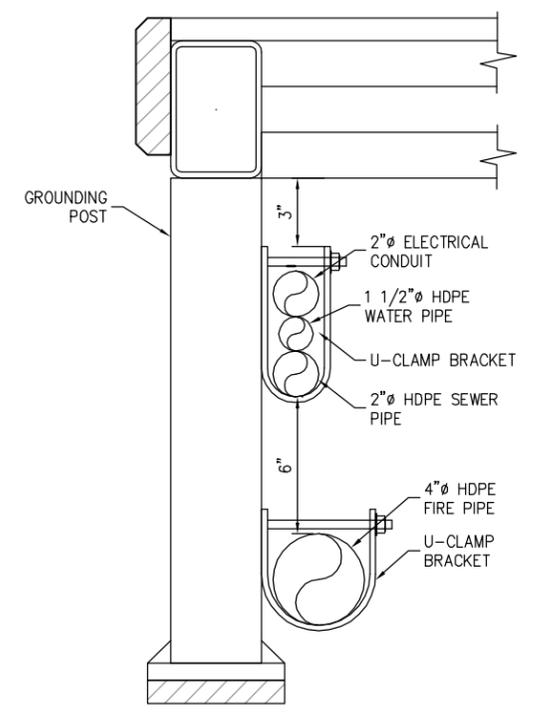




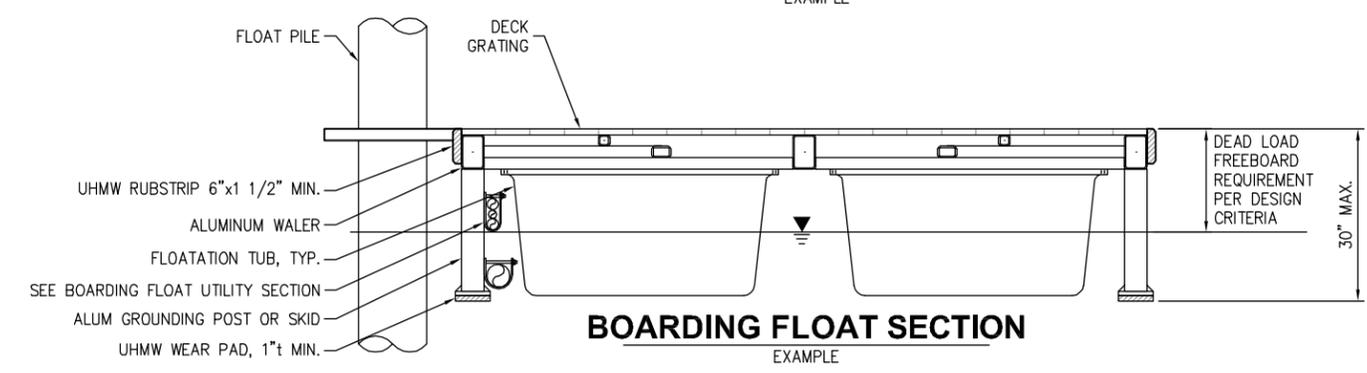
**BOARDING FLOAT PLAN**



**BOARDING FLOAT PLAN**  
EXAMPLE



**BOARDING FLOAT UTILITY SECTION**



**BOARDING FLOAT SECTION**  
EXAMPLE

60% SUBMITTAL

**PND ENGINEERS, INC.**  
1736 Fourth Avenue S., Suite A  
Seattle, Washington 98134  
P: 206.624.1387  
www.pndengineers.com

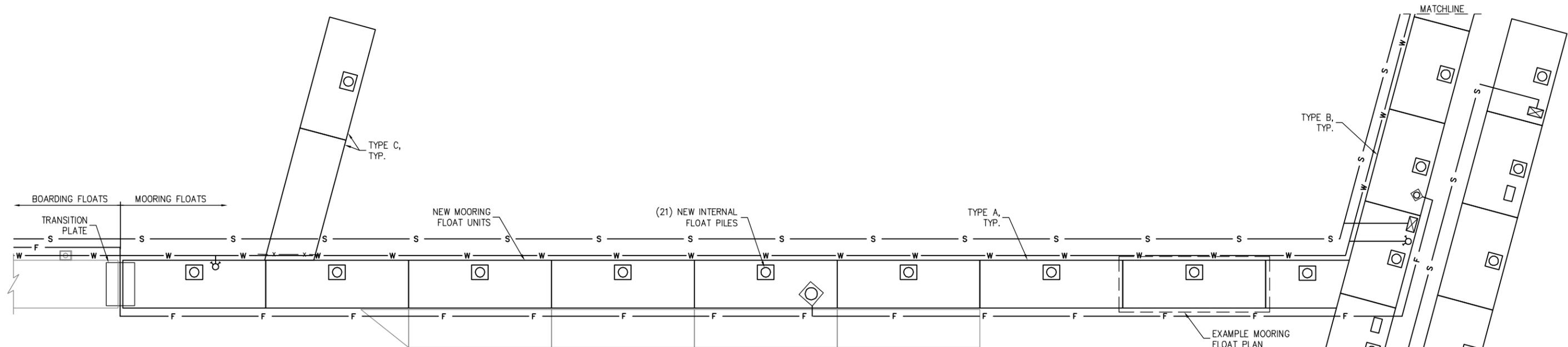
PND ENGINEERS, INC. IS NOT RESPONSIBLE FOR SAFETY PROGRAMS, METHODS OR PROCEDURES OF OPERATION, OR THE CONSTRUCTION OF THE DESIGN SHOWN ON THESE DRAWINGS. WHERE SPECIFICATIONS ARE GENERAL OR NOT CALLED OUT, THE SPECIFICATIONS SHALL CONFORM TO STANDARDS OF INDUSTRY. DRAWINGS ARE FOR USE ON THIS PROJECT ONLY AND ARE NOT INTENDED FOR REUSE WITHOUT WRITTEN APPROVAL FROM PND. DRAWINGS ARE ALSO NOT TO BE USED IN ANY MANNER THAT WOULD CONSTITUTE A DETRIMENT DIRECTLY OR INDIRECTLY TO PND.

REVISIONS		
REV	DATE	DESCRIPTION

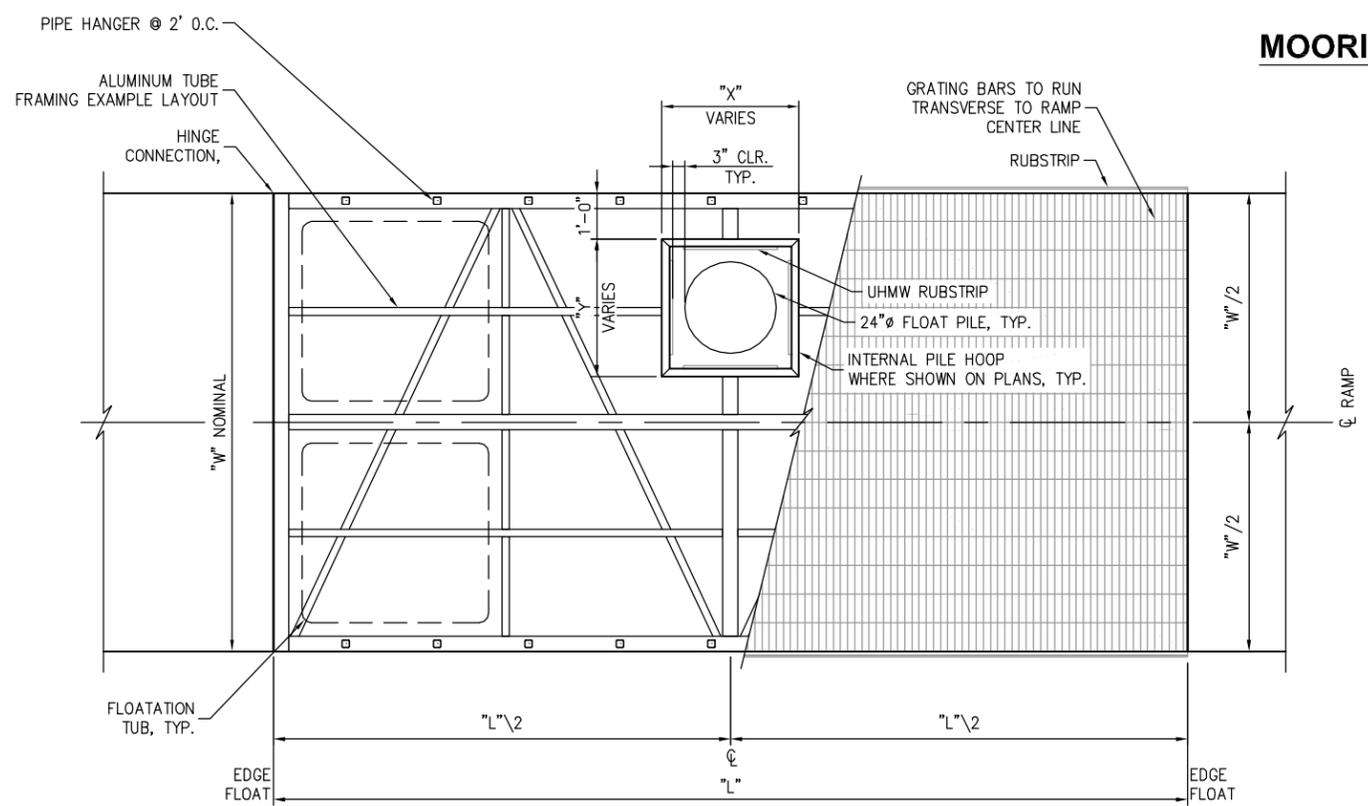
PROJECT: <b>CITY OF BAINBRIDGE ISLAND WATERFRONT DOCK RENOVATION</b>			
TITLE: <b>BOARDING FLOAT DETAILS</b>			
DESIGNED BY: NA	PROJECT NO: 154022.01	SHEET NO: 7 OF 10	
DRAWN BY: DM	DATE: JULY 2015	NOTED	
CHECKED BY:	SCALE:	NOTED	

7/17/2015 K:\2015\154022 - BAINBRIDGE IS CITY DOCK IMPROVEMENTS\60% SUBMITTAL\154022.01-07.DWG

7/20/2015 -- BAINBRIDGE IS CITY DOCK IMPROVEMENTS 60% SUBMITTAL 154022.01-08.DWG

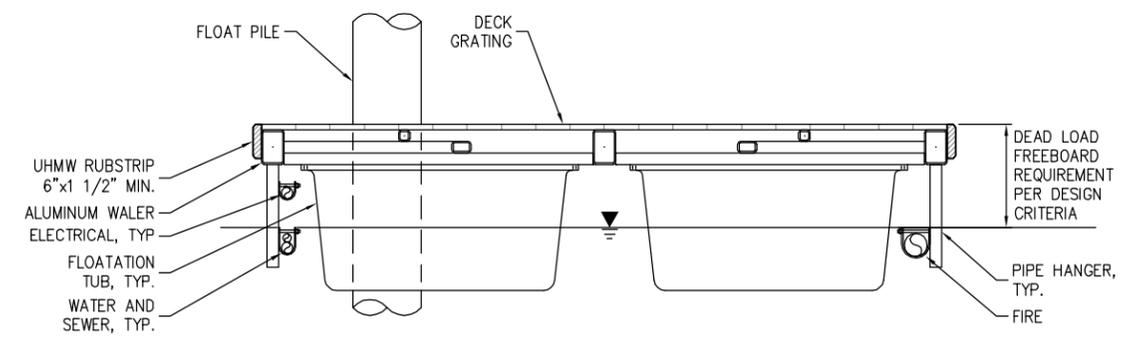


**MOORING FLOAT PLAN**



**MOORING FLOAT PLAN**  
EXAMPLE

TYPE	"W"	"X"	"Y"	"L"
TYPE A	10'-0"	3'-6"	3'-0"	30'-0"
TYPE B	12'-0"	3'-0"	3'-0"	20'-0"
TYPE C	10'-0"	3'-6"	3'-0"	24'-0"



**MOORING FLOAT SECTION**  
EXAMPLE

60% SUBMITTAL

**P N D**  
ENGINEERS, INC.  
1736 Fourth Avenue S, Suite A  
Seattle, Washington 98134  
P: 206.624.1387  
www.pndengineers.com

PND ENGINEERS, INC. IS NOT RESPONSIBLE FOR SAFETY PROGRAMS, METHODS OR PROCEDURES OF OPERATION, OR THE CONSTRUCTION OF THE DESIGN SHOWN ON THESE DRAWINGS. WHERE SPECIFICATIONS ARE GENERAL OR NOT CALLED OUT, THE SPECIFICATIONS SHALL CONFORM TO STANDARDS OF INDUSTRY. DRAWINGS ARE FOR USE ON THIS PROJECT ONLY AND ARE NOT INTENDED FOR REUSE WITHOUT WRITTEN APPROVAL FROM PND. DRAWINGS ARE ALSO NOT TO BE USED IN ANY MANNER THAT WOULD CONSTITUTE A DETRIMENT DIRECTLY OR INDIRECTLY TO PND.

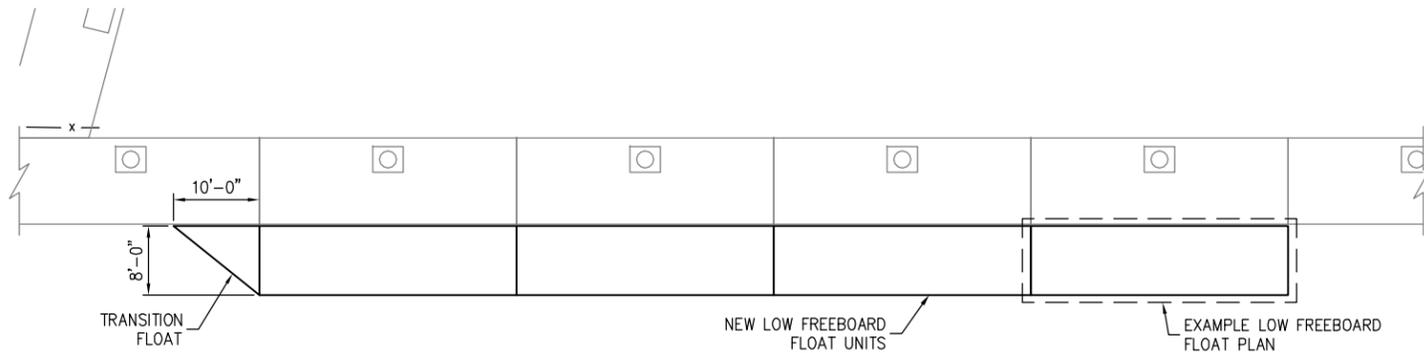
REVISIONS		
REV	DATE	DESCRIPTION

PROJECT: **CITY OF BAINBRIDGE ISLAND WATERFRONT DOCK RENOVATION**

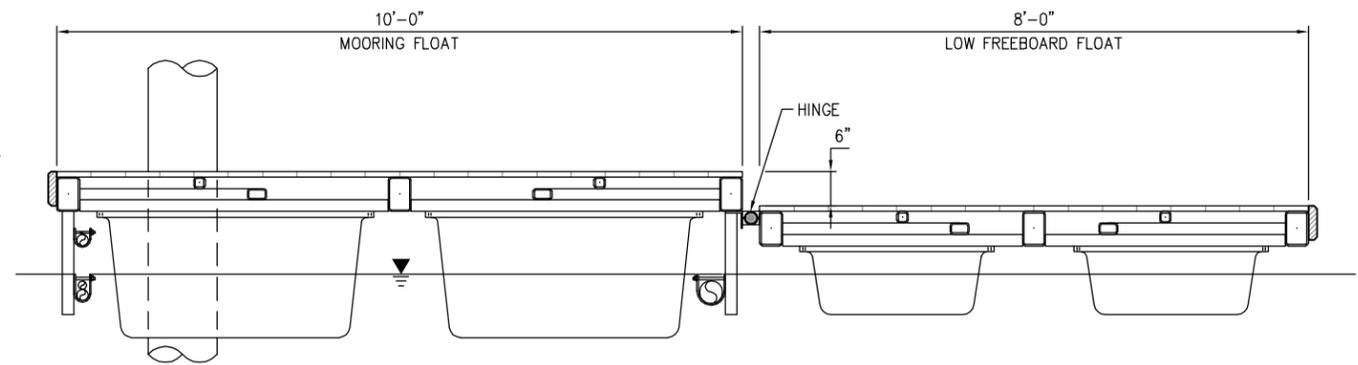
TITLE: **MOORING FLOAT DETAILS**

DESIGNED BY: NA	PROJECT NO: 154022.01	SHEET NO:
DRAWN BY: DM	DATE: JULY 2015	8 OF 10
CHECKED BY:	SCALE: NOTED	

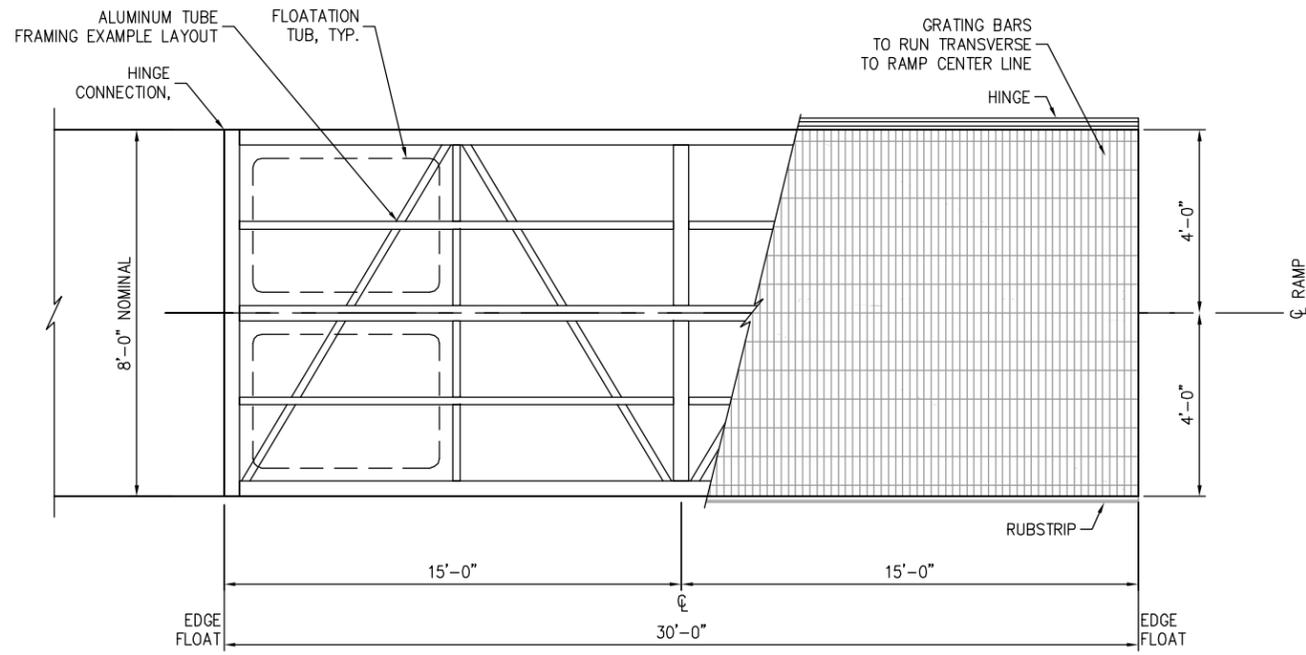
7/20/2015 K:\2015\154022 - BAINBRIDGE IS CITY DOCK IMPROVEMENTS\60% SUBMITTAL\154022.01-09.DWG



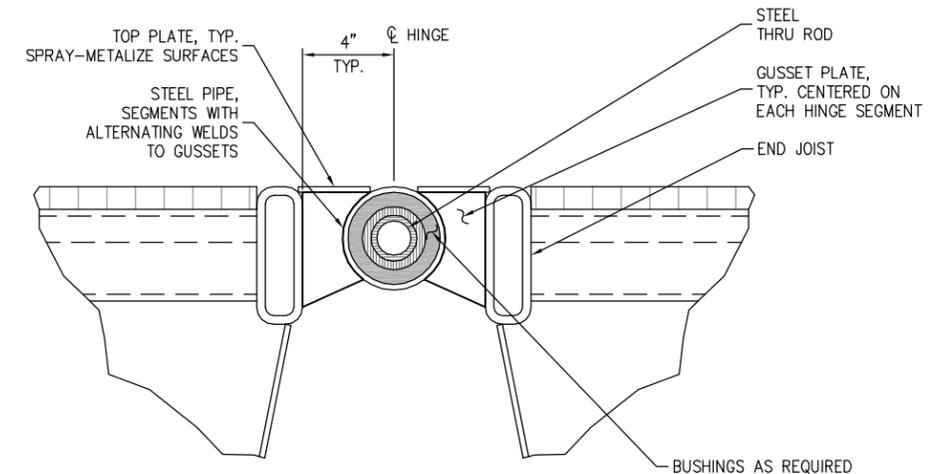
**LOW FREEBOARD FLOAT PLAN**



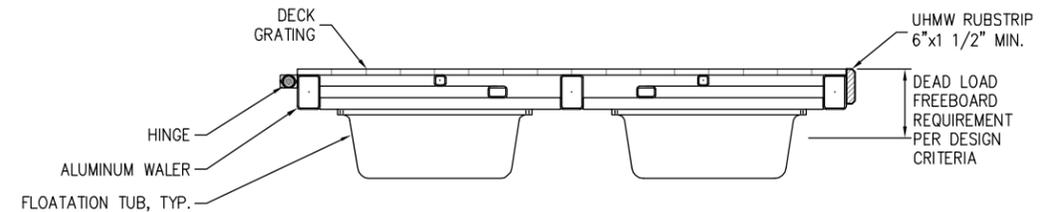
**LOW FREEBOARD FLOAT SECTION**



**LOW FREEBOARD FLOAT PLAN EXAMPLE**



**FLOAT TO FLOAT HINGE**



**LOW FREEBOARD FLOAT SECTION EXAMPLE**

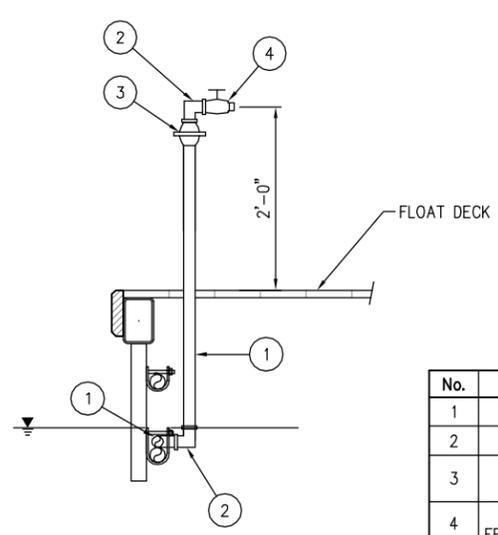
**60% SUBMITTAL**

**PND ENGINEERS, INC.**  
 1736 Fourth Avenue S, Suite A  
 Seattle, Washington 98134  
 P: 206.624.1387  
 www.pndengineers.com

PND ENGINEERS, INC. IS NOT RESPONSIBLE FOR SAFETY PROGRAMS, METHODS OR PROCEDURES OF OPERATION, OR THE CONSTRUCTION OF THE DESIGN SHOWN ON THESE DRAWINGS. WHERE SPECIFICATIONS ARE GENERAL OR NOT CALLED OUT, THE SPECIFICATIONS SHALL CONFORM TO STANDARDS OF INDUSTRY. DRAWINGS ARE FOR USE ON THIS PROJECT ONLY AND ARE NOT INTENDED FOR REUSE WITHOUT WRITTEN APPROVAL FROM PND. DRAWINGS ARE ALSO NOT TO BE USED IN ANY MANNER THAT WOULD CONSTITUTE A DETRIMENT DIRECTLY OR INDIRECTLY TO PND.

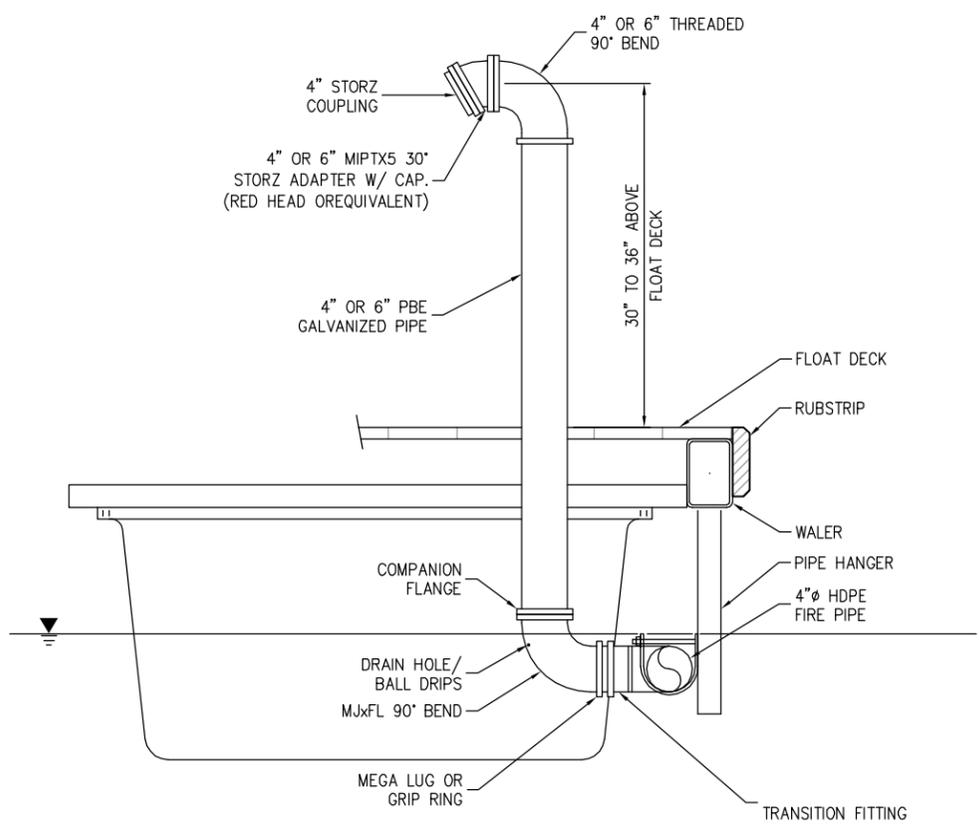
REVISIONS		
REV	DATE	DESCRIPTION

<b>CITY OF BAINBRIDGE ISLAND WATERFRONT DOCK RENOVATION</b>			
<b>LOW FREEBOARD FLOAT DETAILS</b>			
DESIGNED BY:	NA	PROJECT NO:	154022.01
DRAWN BY:	DM	DATE:	JULY 2015
CHECKED BY:		SCALE:	NOTED
SHEET NO:			<b>9 OF 10</b>

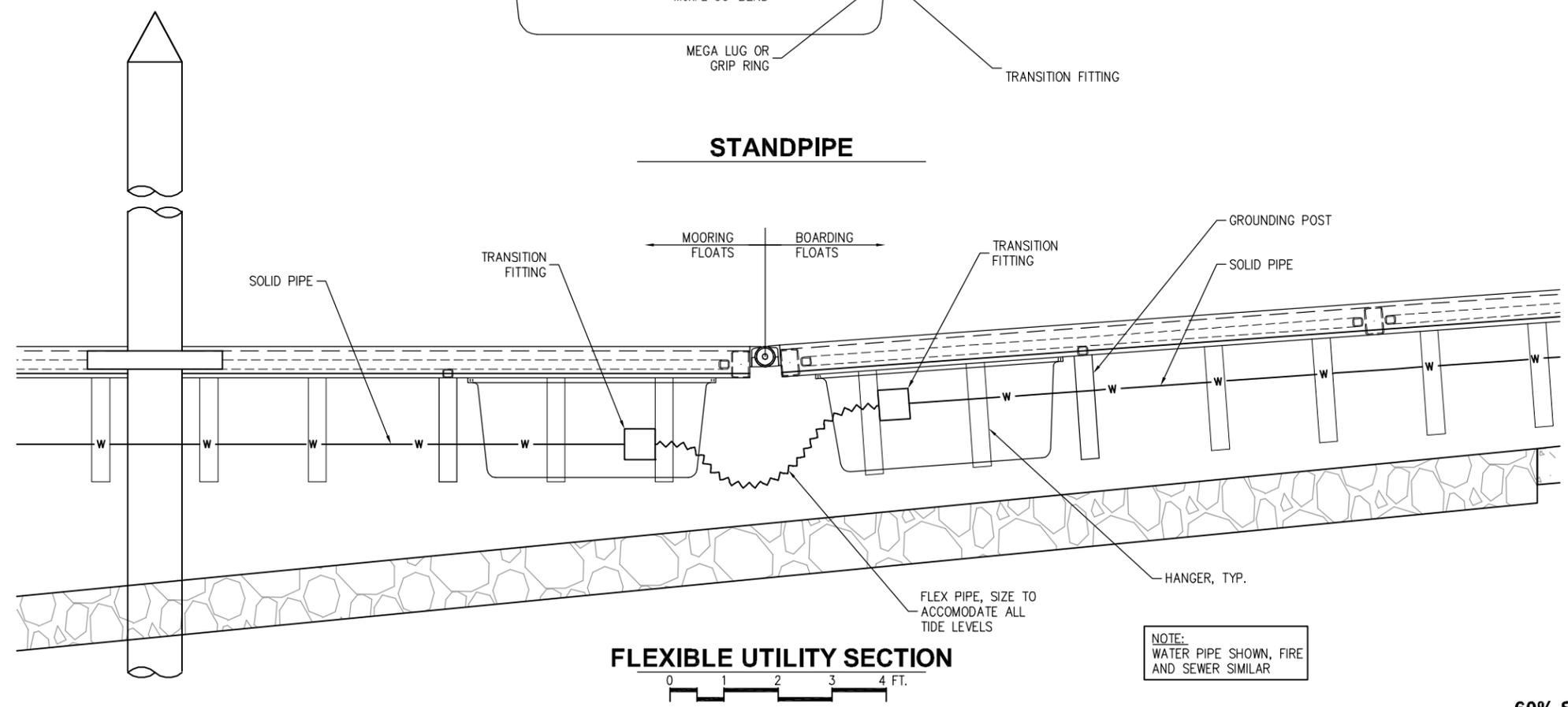


No.	WATER
1	1 1/2" HDPE
2	2" 90° HDPE EL
3	2"x1" REDUCER 1" BALL VALVE
4	3/4" THREADED FEMALE CONNECTION

**SERVICE CONNECTION**



**STANDPIPE**



**FLEXIBLE UTILITY SECTION**

NOTE:  
WATER PIPE SHOWN, FIRE  
AND SEWER SIMILAR

- FIRE DEPARTMENT CONNECTION (FDC) NOTES:**
1. SHALL COMPLY WITH NFPA-13 STANDARD FOR PIPE SIZE AND MATERIAL.
  2. ALL JOINTS SHALL BE RESTRAINED.
  3. INSTALL DRAIN HOLE AND BALL DRIP TO ALLOW FOR PIPE DRAIN WHEN NOT IN USE.
  4. A HYDROSTATIC PRESSURE TEST AT 225 FOR 2 HOURS AS PER NFPA STANDARDS IS REQUIRED TO BE WITNESSED BY CITY OF ANACORTES FIRE MARSHALL.
  5. A FINAL VELOCITY FLUSH OF PIPE AT A FLOW RATE OF 10 FEET PER SECOND. IT SHALL BE WITNESSES BY CITY OF ANACORTES FIRE MARSHALL OR DESIGNER UNTIL PIPE IS CLEAR OF CONSTRUCTION DEBRIS.
  6. ALL FIRE DEPARTMENT SHALL BE 30-36 INCHES ABOVE FLOAT DECK.
  7. ALL FIRE DEPARTMENT CONNECTIONS SHALL HAVE "REDHEAD" OR EQUIVALENT STORZ COUPLING WITH CAP AND CHAIN. A 30' OR 45' ELBOW SHALL BE PROVIDED BETWEEN RISER PIPE AND STORZ COUPLING.
  8. ALL FIRE DEPARTMENT CONNECTIONS RISERS SHALL BE PAINTED A STANDARD MEDIUM "RED" FROM FINISHED GRADE UP TO, BUT NOT INCLUDING, THE STORZ COUPLING ADAPTER.
  9. ALL FIRE DEPARTMENT CONNECTIONS WILL BE ON PRIVATE PROPERTY. THE FDC'S WILL NOT BE LOCATED IN THE CITY OF ANACORTES RIGHT-OF-WAY.

7/17/2015 15:40:22 - BAINBRIDGE IS CITY DOCK IMPROVEMENTS 60% SUBMITTAL 154022.01-10.DWG

**PND ENGINEERS, INC.**  
1736 Fourth Avenue S., Suite A  
Seattle, Washington 98134  
P: 206.624.1387  
www.pndengineers.com

PND ENGINEERS, INC. IS NOT RESPONSIBLE FOR SAFETY PROGRAMS, METHODS OR PROCEDURES OF OPERATION, OR THE CONSTRUCTION OF THE DESIGN SHOWN ON THESE DRAWINGS. WHERE SPECIFICATIONS ARE GENERAL OR NOT CALLED OUT, THE SPECIFICATIONS SHALL CONFORM TO STANDARDS OF INDUSTRY. DRAWINGS ARE FOR USE ON THIS PROJECT ONLY AND ARE NOT INTENDED FOR REUSE WITHOUT WRITTEN APPROVAL FROM PND. DRAWINGS ARE ALSO NOT TO BE USED IN ANY MANNER THAT WOULD CONSTITUTE A DETRIMENT DIRECTLY OR INDIRECTLY TO PND.

REVISIONS		
REV	DATE	DESCRIPTION

**60% SUBMITTAL**

**CITY OF BAINBRIDGE ISLAND  
WATERFRONT DOCK RENOVATION**

**UTILITY DETAILS**

DESIGNED BY:	NA	PROJECT NO:	154022.01	SHEET NO:	<b>10 OF 10</b>
DRAWN BY:	DM	DATE:	JULY 2015		
CHECKED BY:		SCALE:	NOTED		