Sand Point Alaska
Robert E Galovin Small Boat Harbor Renovation
Project Description

The City of Sand Point desires to renovate the Robert E Galovin Small Boat harbor. The Sand Point Robert E Galovin Small Boat Harbor was constructed in the 1970s. There have been several extensions, modifications, and renovations over the years. There are four main floats; A, B, C, and T float. All of the floats are constructed of modular concrete tubs with timber walers and timber bullrails. There is a timber framed harbor dock and timber framed access trestle. A 2010 condition survey found that the floating docks were at or beyond their service life and were in Poor, Serious, or Critical condition. The condition survey recommended replacing all of the floating docks.

The purpose of this application is to complete agency notification and permitting requirements for construction of the small boat harbor facilities.

The following is a summary of the existing facilitates that will be renovated:

- Existing T-float is a heavy duty float with two rows of piling. It is side-tie on the west side and has slips on the east side. The float is 12'-8" wide and 410 feet long. There are 6 each 6 foot x 61 foot angled fingers on the east side. Each finger has two piling, one at the end and one at the mid-section.
- Existing A-float has side-tie on the east side and angled slips on the west side. A-float is 9 feet wide and 852 feet long. There are 15 each 6 foot x 61 foot angled fingers on the west side. Each finger has two piling, one at the end and one at the mid-section.
- Existing B-float is 9 feet wide and has stalls on both sides. There is a single row of exterior piling on the west side, centered in the stalls. There are single piles at the end of each finger. There are 16 each 3'-6" wide x 40 foot long fingers on the west side and 14 each 4'-6" wide x 49'-6" long angled fingers on the east side.
- Existing C-float is 9 feet wide and has stalls on both sides. There are 3'-6" x 30'-6" cantilever fingers on the west side. There are 3'-6" wide x 41' long fingers with a pile at the end on the east side.
- The existing B-float access trestle is about 12 feet wide and 102 feet long. There are 7 each 2-pile timber pile bents, including the abutment. Each bent is 16 to 18 feet apart. The decking is 2-1/2 inches thick and 11-1/4 inches wide.
- The existing Harbor Dock is constructed from timber. There is an access trestle that is about 16 feet wide and 315 feet long. It has 20 each 3-pile bents counting the abutment. The end of the dock is a 42 feet wide by 105 feet long platform. This has 8 each 6-pile bents at about 15 feet on center. It has timber fender piling at about 7'-6" on center. The decking is 2-1/2 inches thick and 11-1/4 inches wide. There are 12"x 12" timber bullrails.
- There is an existing 18 foot wide grid that is about 80 feet long. It has 44 timber piling and 11 pile-supported cross timbers.

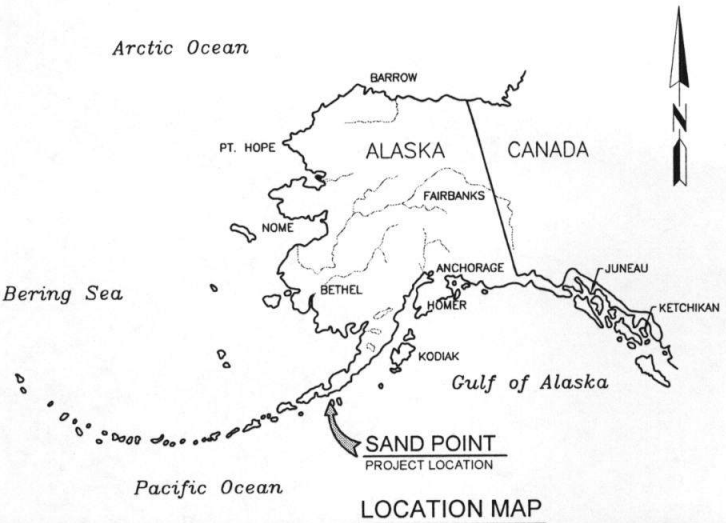
Scope of Work:
The work includes removing and replacing all floating docks and related piling. This includes removing about 40,000 square feet of floating docks and 165 piling and installing about 76,500 square feet of new floating docks and 242 new piling. Five existing pile dolphins will be removed and not replaced. Approximately 7,000 square feet of the existing timber dock and timber trestle will be

removed along with related support piling and not replaced. This will provide room for the new floating docks and new longer aluminum gangways. All new floats will be high quality heavy duty timber mooring floats. All new piling will be galvanized steel and will have sacrificial anodes. Piling range in diameter and include 12-3/4 inch, 16 inch, and 18 inch diameter. The project includes two new 6x80 foot American with Disability Act (ADA) compliant aluminum gangways and two new 16x16 foot gangway floats. New lighting and electrical pedestals will be provided along with a dry standpipe fire suppression system.

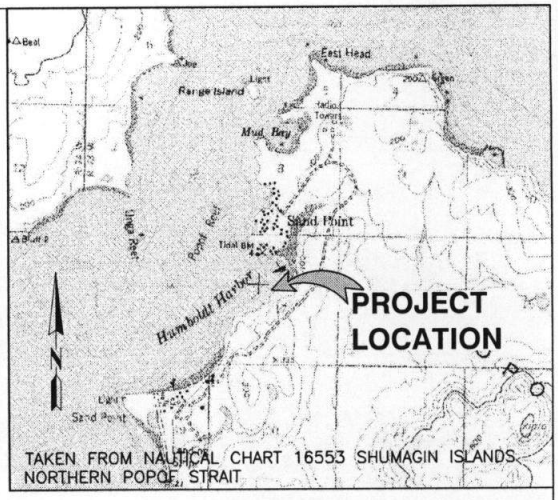
There is also an Additive Alternate 1 that includes renovating the existing timber grid. This work included replacing the existing timber piling, in like and kind, and installing new glue laminated timber grid cap beams.

These new facilities are detailed in the enclosed drawings. The facilities will be designed according to applicable American Society of Civil Engineers (ASCE) guidelines including "*Planning and Design Guidelines for Small Craft Harbors*". The scope of work is planned for construction in two or more phases as follows:

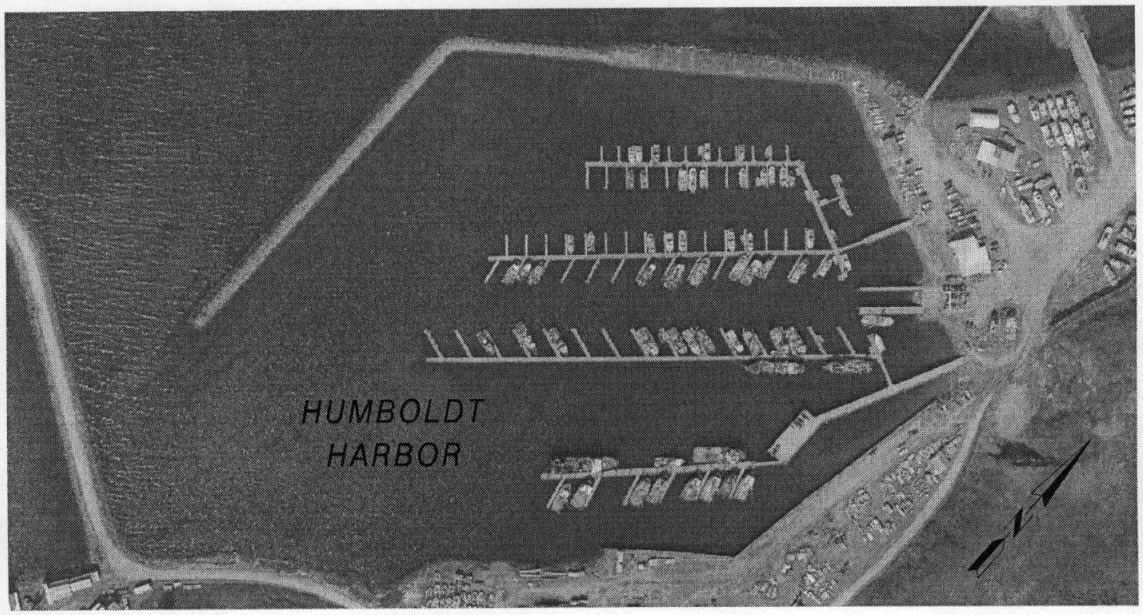
Phase 1: The project will be constructed in phases based on the available budget. Phase 1 includes all of the above but with slightly shorter sections of T, A, and B floats. Phase one includes a totla of about 178 new steel piling and 62,300 square feet of new floating docks.



LOCATION MAP
SCALE: N.T.S.



VICINITY MAP
SCALE: N.T.S.



HUMBOLDT HARBOR
SCALE: N.T.S.

NOAA TIDAL STATISTICS FOR SAND POINT, POPOF STRAIT	
HIGHEST OBSERVED WATER LEVEL	11.58'
MEAN HIGHER HIGH WATER (MHHW)	7.23'
MEAN HIGH WATER (MHW)	6.52'
MEAN TIDE LEVEL	3.93'
MEAN LOW WATER (MLW)	1.33'
MEAN LOWER LOW WATER (MLLW)	0.00'
LOWEST OBSERVED WATER LEVEL	-3.82'

PURPOSE:
ROBERT E GALOVIN SMALL BOAT HARBOR RENOVATION
EXISTING PERMIT:
N/A
N/A
DATUM: M.L.L.W. = 0.0'
PROPERTY OWNERS:
CITY OF SAND POINT

LOCATION & VICINITY MAPS
HUMBOLDT HARBOR

NOT TO SCALE

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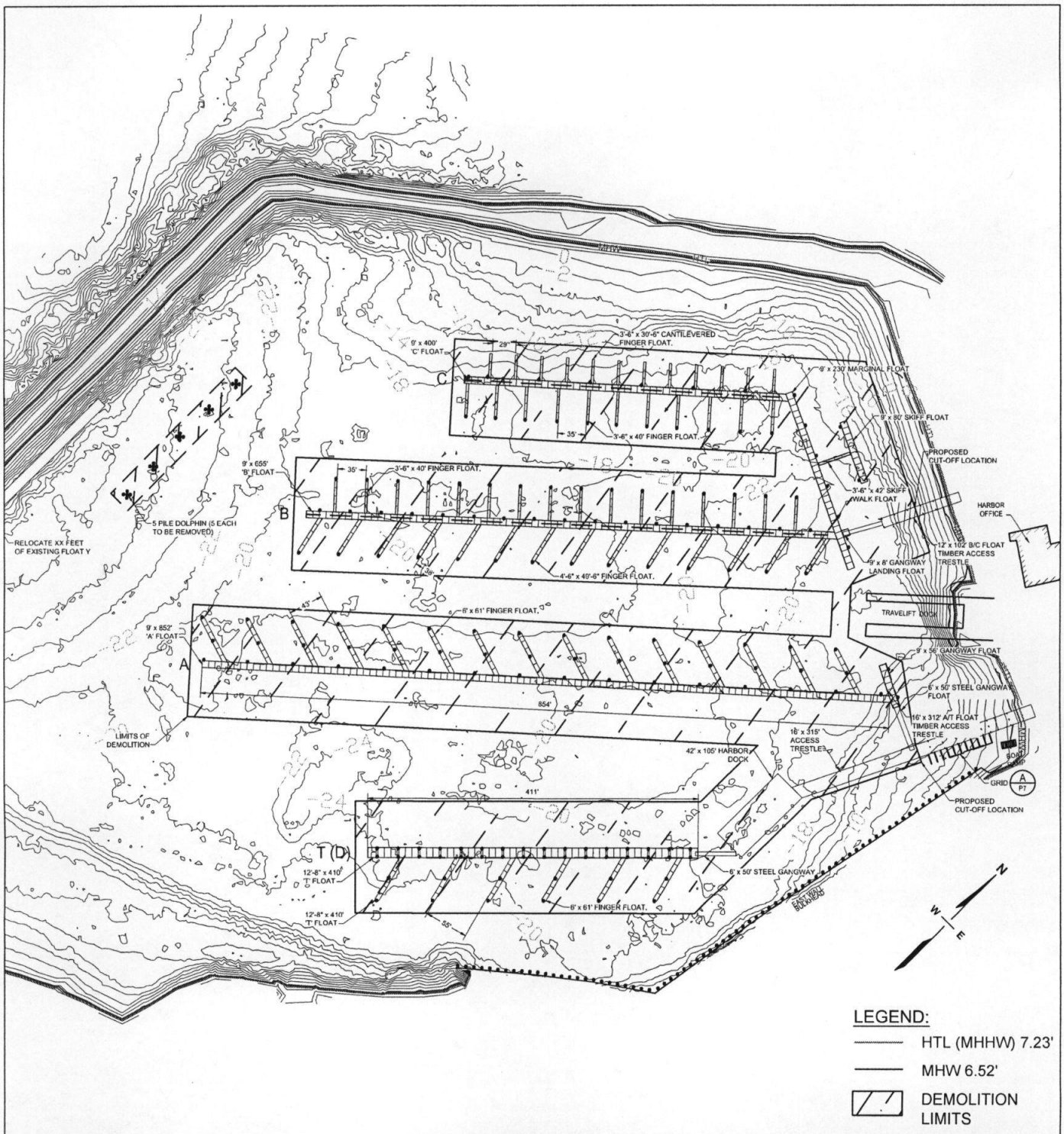
ROBERT E GALOVIN SMALL BOAT HARBOR
IN: SAND POINT
AT: HUMBOLDT HARBOR
APPLICATION BY:

DWG. FILE: P1_Cover Sheet.dwg.



PURPOSE:
ROBERT E GALOVIN SMALL BOAT HARBOR RENOVATION
EXISTING PERMIT:
N/A
N/A
DATUM: M.L.L.W. = 0.0'
PROPERTY OWNERS:
CITY OF SAND POINT

EXISTING LAYOUT AND DEMOLITION PLAN

SCALE: N.T.S.

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ROBERT E GALOVIN SMALL BOAT HARBOR
IN: SAND POINT
AT: HUMBOLDT HARBOR
APPLICATION BY:

DWG. FILE: P2_Existing Site.dwg.

POA-2012-951 Humboldt Harbor
City of Sand Point January 10, 2013
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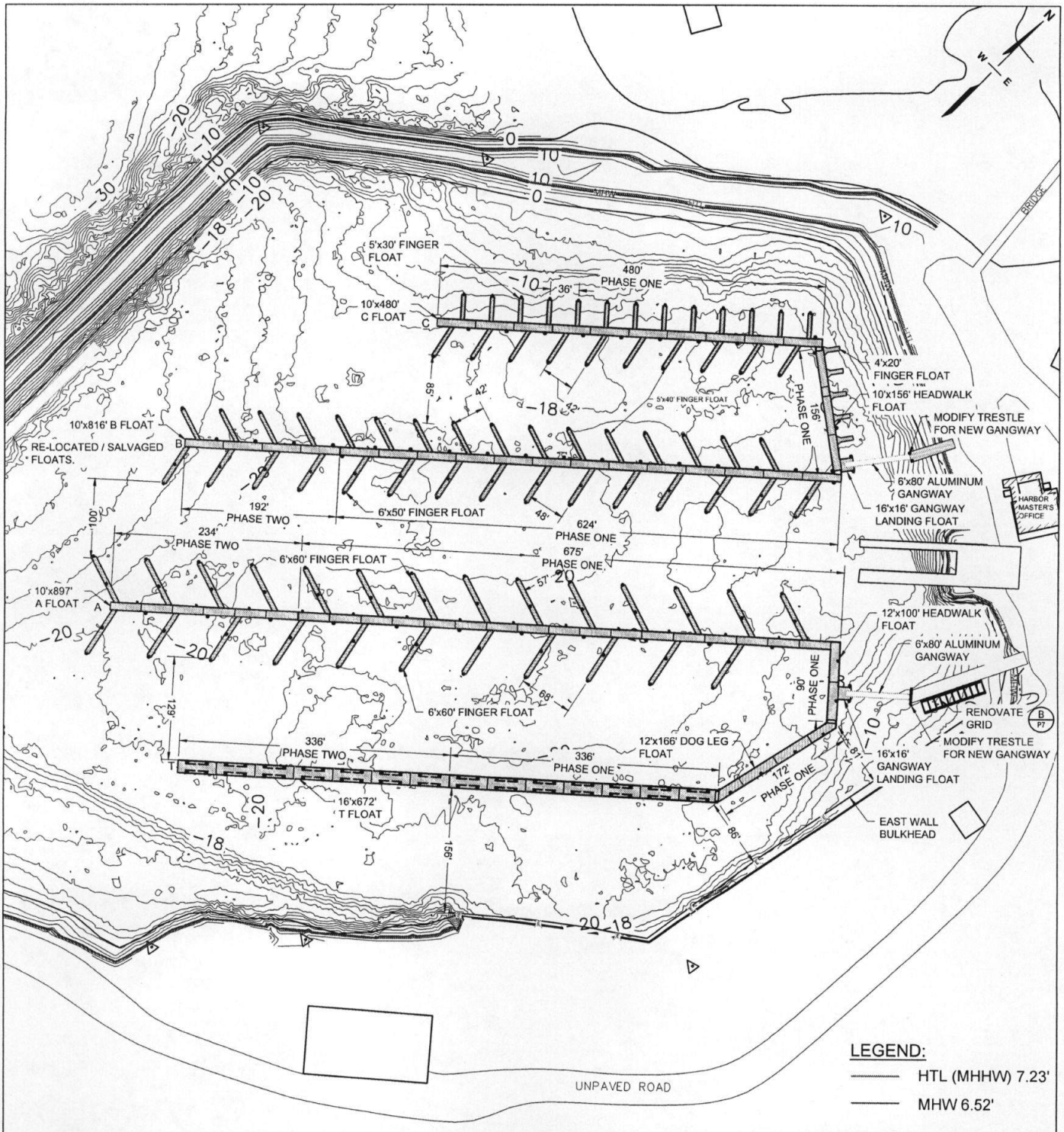

PURPOSE:
ROBERT E GALOVIN SMALL BOAT HARBOR RENOVATION
EXISTING PERMIT:
N/A
N/A
DATUM: M.L.L.W. = 0.0'
PROPERTY OWNERS:
CITY OF SAND POINT

PROPOSED LAYOUT

SCALE: N.T.S.

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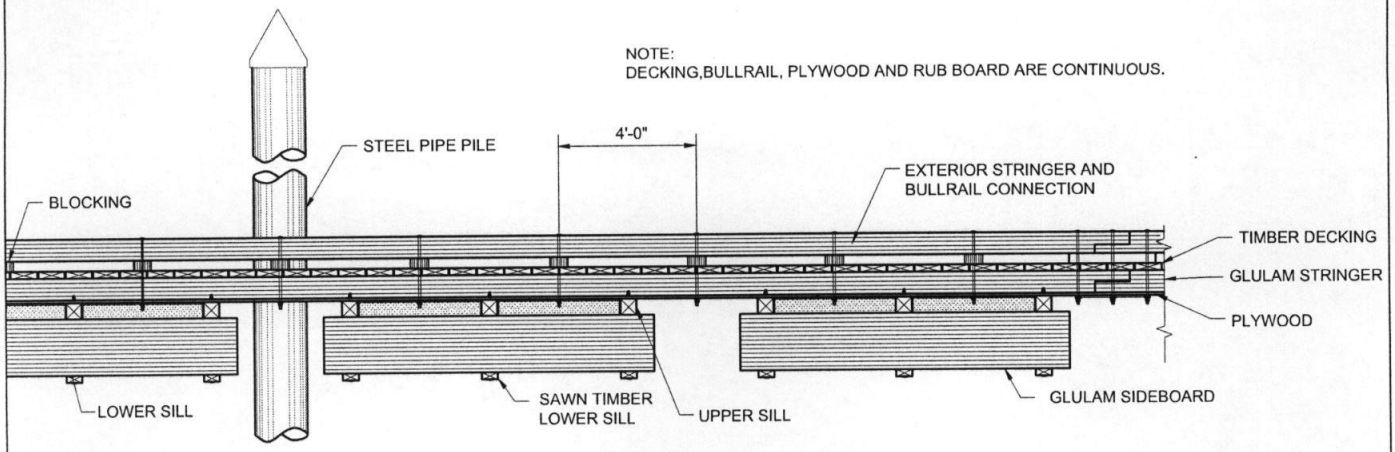
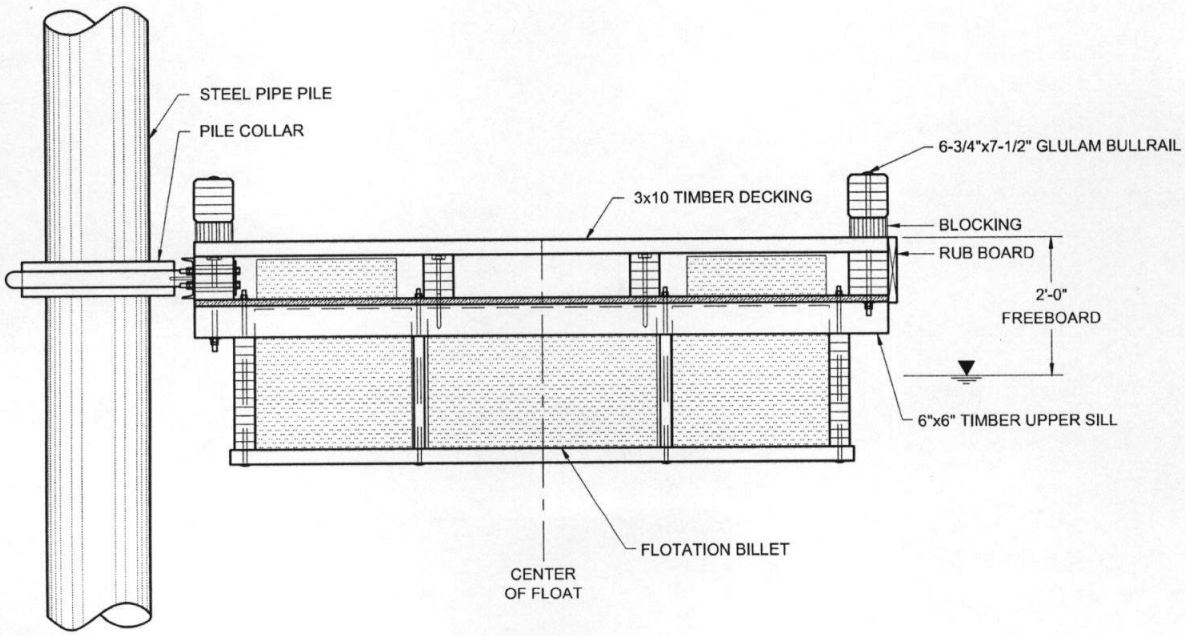
ROBERT E GALOVIN SMALL BOAT HARBOR
IN: SAND POINT
AT: HUMBOLDT HARBOR
APPLICATION BY:

DWG. FILE: P3_Proposed Site.dwg.



1 / P4 TYPICAL 10' WIDE FLOAT ELEVATION
SCALE: 3/8" = 1'-0"



2 / P4 TYPICAL 10' WIDE FLOAT SECTION
SCALE: 3/4" = 1'-0"

PURPOSE:
ROBERT E GALOVIN SMALL BOAT HARBOR RENOVATION
EXISTING PERMIT:
N/A
N/A
DATUM: M.L.L.W. = 0.0'
PROPERTY OWNERS:
CITY OF SAND POINT

TYPICAL FLOAT SECTIONS

SCALE:

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ROBERT E GALOVIN SMALL BOAT HARBOR
IN: SAND POINT
AT: HUMBOLDT HARBOR
APPLICATION BY:
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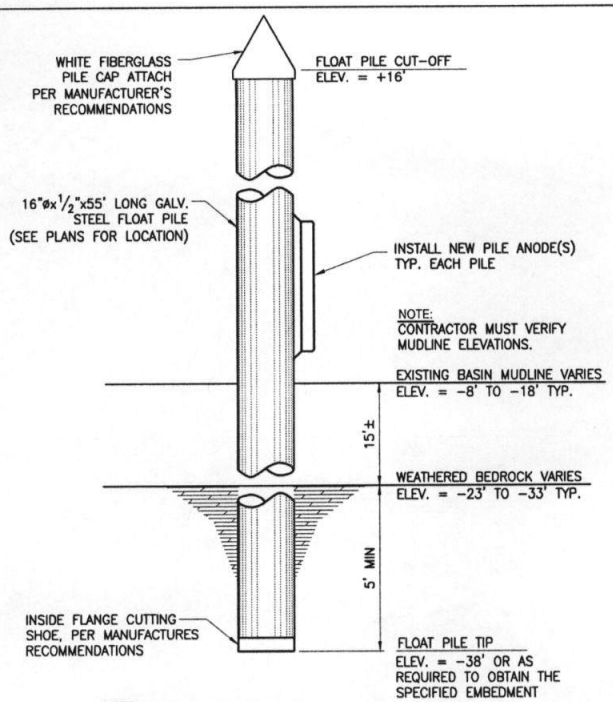
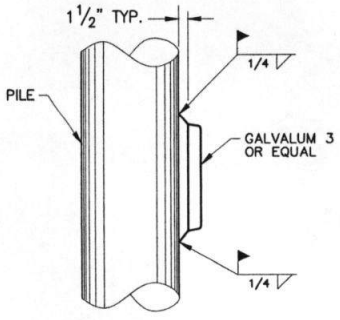
DWG. FILE: P4_Float Modules.dwg.



1/P5 STEEL FLOAT PILE DETAIL
SCALE: 1/2" = 1'-0"

NOTES:

1. PROVIDE ONE EA. 130 LB ANODE PER 16"ø PILE. (TOTALWEIGHT OF ANODE MATERIAL NOT INCLUDING CORE).
2. THE MAXIMUM LENGTH, NOT INCLUDING MOUNTING TABS, SHALL BE 36". TOP OF INSTALLED ANODE SHALL BE NO HIGHER THAN -5' EL.
3. APPROVED ANODE SHALL BE GALVALUM 3 OR EQUAL. BEND TABS AS SHOWN AND INSTALL BY DIVER. WET WELD TO AWS D3.6-93 CLASS B STANDARDS.



2/P5 ANODE DETAIL
SCALE: N.T.S.

PURPOSE:
ROBERT E GALOVIN SMALL BOAT HARBOR RENOVATION
EXISTING PERMIT:
N/A
N/A
DATUM: M.L.L.W. = 0.0'
PROPERTY OWNERS:
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PROPOSED PILE DETAILS

SCALE: N.T.S.

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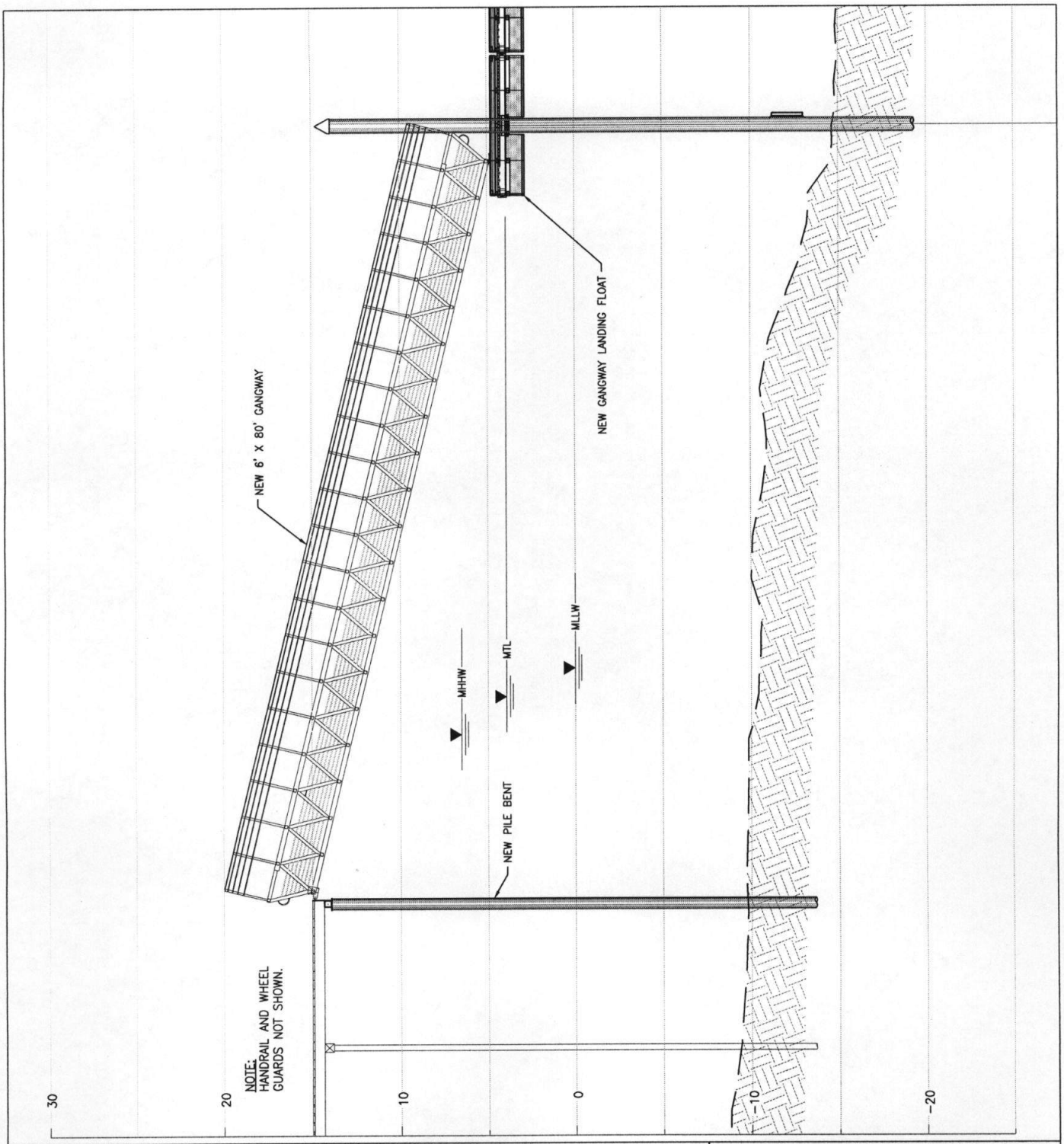
IN: SAND POINT
AT: HUMBOLDT HARBOR
APPLICATION BY:

DWG. FILE: P5_Pile Details.dwg.



PURPOSE:
ROBERT E GALOVIN SMALL BOAT
HARBOR RENOVATION
EXISTING PERMIT:
N/A
N/A
DATUM: M.L.L.W. = 0.0'
PROPERTY OWNERS:
CITY OF SAND POINT

EXISTING APPROACH
TRESTLE MODIFICATIONS

16 0 16

SCALE: 1/16" = 1'-0"

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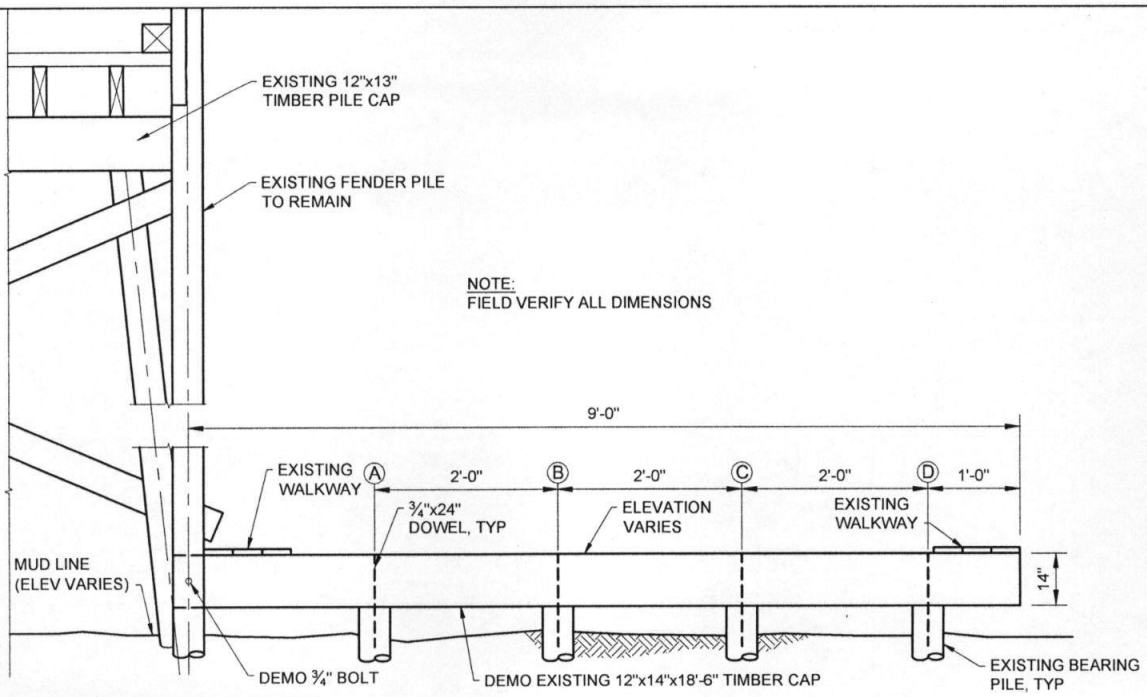
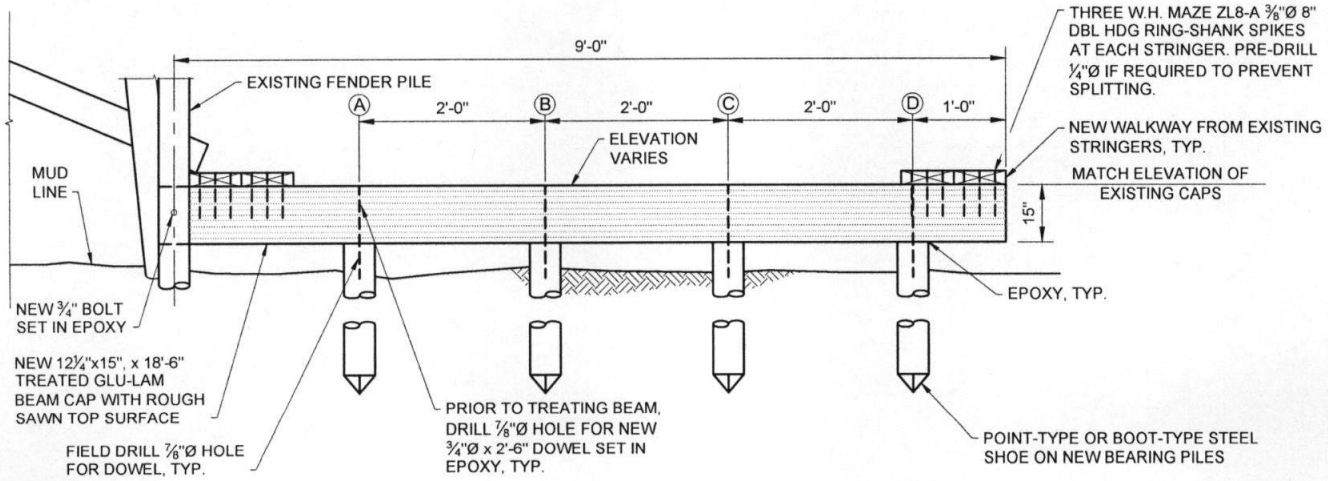
ROBERT E GALOVIN SMALL
BOAT HARBOR
IN: SAND POINT
AT: HUMBOLDT HARBOR
APPLICATION BY:

DWG. FILE: P6_Trestle Profile.dwg.



A / P7 EXISTING TIDAL GRID SECTION
SCALE: 1/4" = 1'-0"



NOTES:
1. REPLACE DEMO'D BEARING PILES WITH PILES SALVAGED FROM DEMO'D TRESTLE. PILE DIAMETER AT FINAL CUTOFF ELEVATION SHALL BE AT LEAST 12". ESTIMATED PILE EMBEDMENT BELOW MUDLINE = 25' (APPROX.). SEE SPECS FOR DRIVING CRITERIA.
2. CONSTRUCT NEW WALKWAY WITH STRINGERS SALVAGED FROM DEMO'D TRESTLE.

B / P7 NEW TIDAL GRID SECTION
SCALE: 1/4" = 1'-0"

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EXISTING PERMIT:
N/A
N/A
DATUM: M.L.L.W. = 0.0'
PROPERTY OWNERS:
CITY OF SAND POINT

TIDAL GRID RENOVATION

4'–0" 0 4'–0"
SCALE: 1/4" = 1'–0"

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ROBERT E GALOVIN SMALL BOAT HARBOR
IN: SAND POINT
AT: HUMBOLDT HARBOR
APPLICATION BY:
CITY OF SAND POINT POST

DWG. FILE: P7 Tidal Grid.dwg.