

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND
PUBLIC FACILITIES
SOUTHEAST REGION
DESIGN AND CONSTRUCTION DIVISION

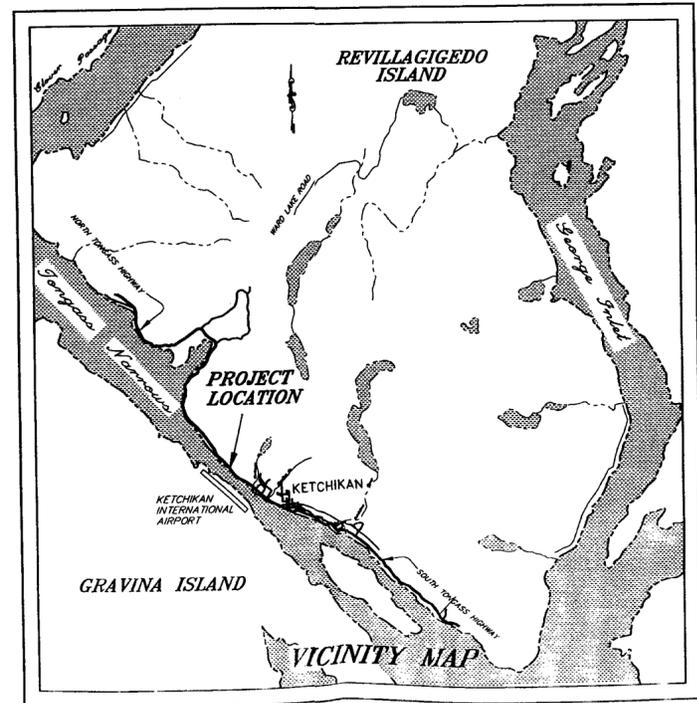
KETCHIKAN, ALASKA

**KETCHIKAN AIRPORT
FERRY TERMINAL
DOLPHIN**

PROJECT No. 0922(6) / 68537

INDEX OF SHEETS	
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2	QUANTITIES & GENERAL NOTES
3	KETCHIKAN TERMINAL, GENERAL LAYOUT
4	DOLPHIN & MOORING ATTACHMENT DETAILS
5	DOLPHIN DETAILS
6	DOLPHIN, FLOATING RUBBER FENDER

Q: KTN/00537/As-Built



As-Built Plans

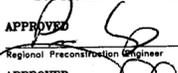
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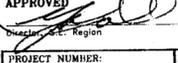
Proj. Eng: Jack Lee

Contractor: Pool Engineering, Inc

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STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND
PUBLIC FACILITIES
SOUTHEAST REGION DESIGN SECTION

APPROVED  Date 9/9/02
Regional Preconstruction Engineer

APPROVED  Date 9/9/02
Director, S.E. Region

PROJECT NUMBER: 68537	ENGINEER'S SEAL 
DATE: SEPT, 2002	
SHEET 1 OF 6	9/10/02

Estimate of Quantities

ITEM NO.	ITEM	PAY UNIT	ESTIMATED QUANTITIES
110	Mobilization & Demobilization	L.S.	All Req'd
112	Construction Surveying	L.S.	All Req'd
900(1)	18" x 1/2" wall Pipe Piles, Furnished	L.F.	26 290
900(2)	18" x 1/2" wall Pipe Piles, Driven	EA	2
900(3)	24" x 1/2" wall Pipe Piles, Furnished	L.F.	156 150
900(4)	24" x 1/2" wall Pipe Piles, Driven	EA	1
901(1)	Dolphin Cap	L.S.	All Req'd
901(2)	Bridge Float Mooring Attachment	EA	2
915	Floating Rubber Fender & Mooring Ring	L.S.	All Req'd

Piling Data

PILE LOCATION	NO.	CAPACITY (KIPS)	ELEVATIONS		TOP ELEVATIONS		TOTAL ESTIMATED LENGTH
			BEARING	PLIFT	APPROX. BASELINE	CUT-OFF	
MOORING STRUCTURE							
Vertical	1	24	80	80	-60	+31.0	-126-119
Batter 3:1	2	38	42	73	-45	+37.1	E-103700-5
							145.5

General Notes

Specifications: Per Contract Documents for Project No. 68537
 Construction: Per Contract Documents for Project No. 68537

Dolphin: Alaska Marine Engineering Standards

Design Loads:
 Dolphin: Berthing/Wind = 28 Kips

Materials:
 Steel: Tube Sections : ASTM A500 Gr. B
 Pipe : ASTM A252 Gr. 3, Straight Seam
 Pipe : ASTM A53, Gr. B, type E or S
 Plates & Shapes: ASTM A36

Protective Coatings:
 Dolphin Cap, Piles and Fender System Steel: Hot-Dip Galvanized after fabrication, Per ASTM A123

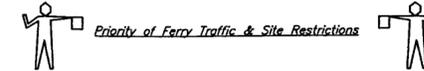
Misc. Steel: Hot-Dip Galvanized after fabrication, Per ASTM A123

Piling:
 Size: 18" dia. x 1/2" wall steel pipe for batter piling
 24" dia. x 1/2" wall steel pipe for vertical piling

Tips: Steel Cutting Shoe, Inside Flange, APF 0-14001 or equal
 Driving Requirements: See table this sheet.

Floating Fender Notes

- Final design of the floating fender shall be performed by the fender manufacturer. Details and dimensions shown are minimum requirements. Modifications may be proposed to the Engineer for approval. Also see contract specifications for additional fender construction requirements and material properties not indicated.
- The fender manufacturer shall determine the overall length of fender to provide the minimum freeboard height indicated. Calculations showing total weight and estimated design draft shall be submitted to the Engineer for approval prior to fabrication.
- Unless otherwise noted, all steel materials incorporated into the fender unit shall be hot-dip galvanized after fabrication.



- The contractor shall schedule and coordinate all construction activities with the Ketchikan Airport, Telephone (907) 225-6800.
- The Contractor shall conduct all construction activities to not interfere with normally scheduled ferry access. The ferry terminal site is actively used for pedestrian and vehicular traffic to and from the Ketchikan Airport. Ferry schedules vary depending on season and scheduled airplane arrivals and departures. In general, the terminal is actively utilized on a daily basis from 5:00 AM to 10:00 PM with ship arrivals and departures every 15 minutes. Disruptions or delays to existing terminal traffic will not be permitted unless otherwise approved by the Ketchikan Airport.
- The ferry vessel normally utilizes the existing terminal for overnight moorage. Upon request of the Contractor, the terminal will be vacated to allow after-hours construction activities.
- The Contractor shall provide safe access to the terminal at all times. No materials may be stockpiled or otherwise stored in the existing staging or terminal area without permission of the Ketchikan Airport. Any uncompleted work shall be left in a safe condition prior to allowing public use of the facility for ferry operations.

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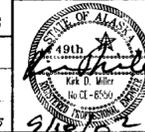
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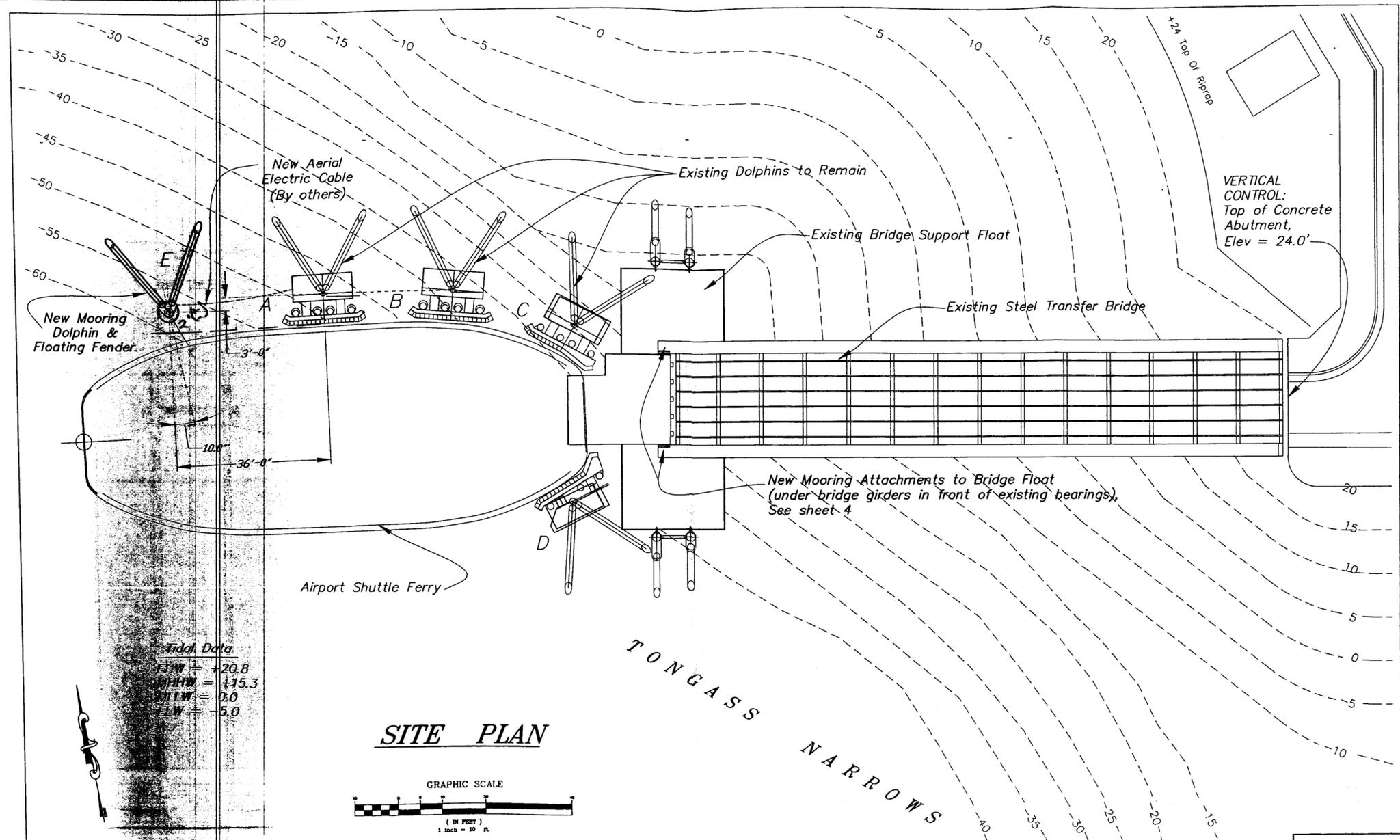
STATE OF ALASKA
 DEPARTMENT OF TRANSPORTATION
 AND PUBLIC FACILITIES
 ALASKA MARINE HIGHWAY SYSTEM

KETCHIKAN
 KETCHIKAN AIRPORT FERRY TERMINAL
 DOLPHIN
 PROJECT No. MGS-0922(8) / 68537
 QUANTITIES & GENERAL NOTES

NOTE: DO NOT SCALE FROM THESE PLANS-USE DIMENSIONS

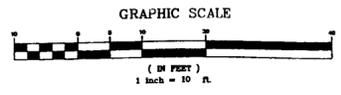
DESIGNED BY: ADM	PROJECT NO. 68537
DRAWN BY: JN	DATE: SEPT, 2002
CHECKED BY: ADM	SHEET 2 OF 6





Tidal Data
 HW = +20.8
 MHW = +15.3
 MLLW = 0.0
 LLW = -5.0

SITE PLAN



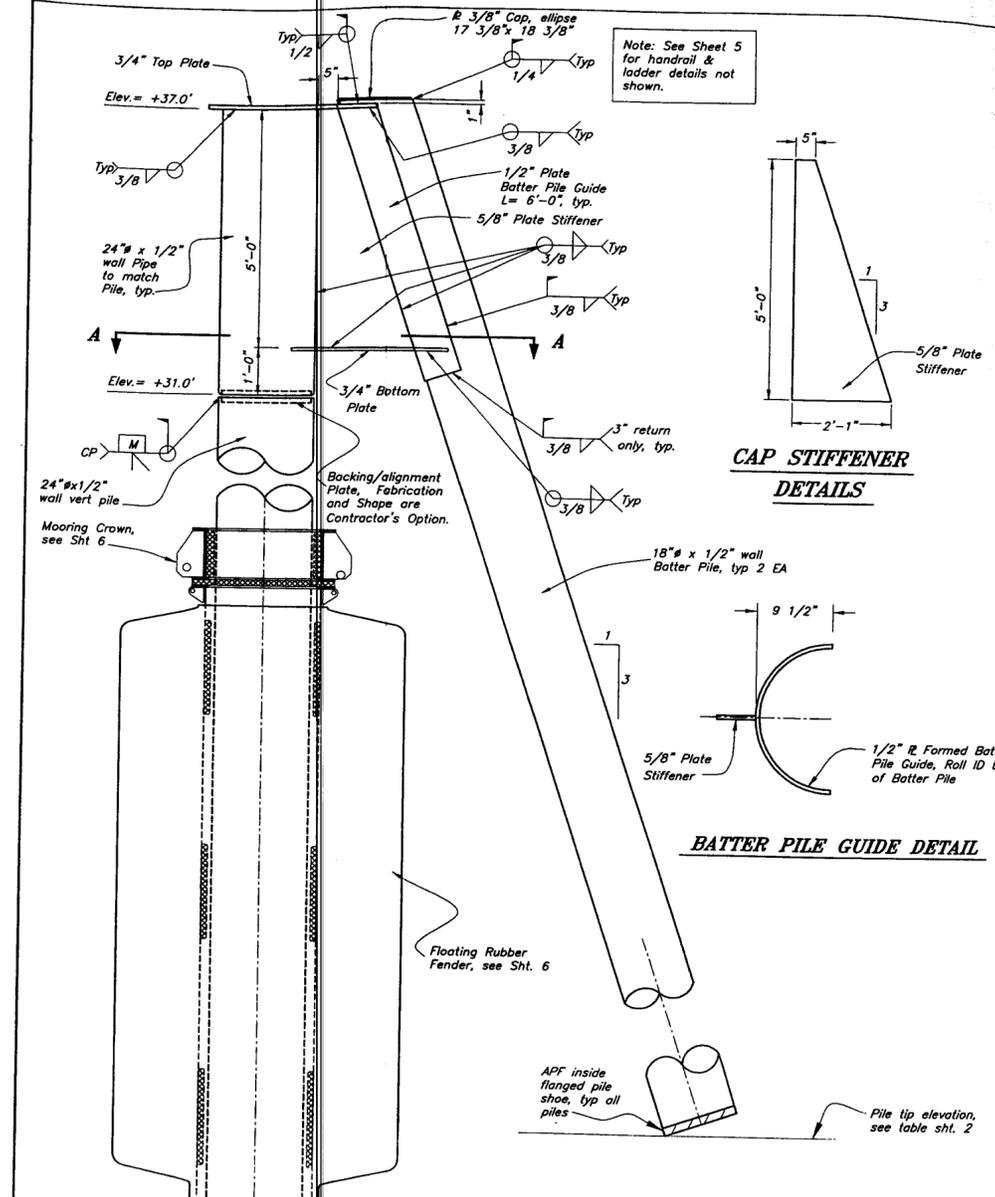
BY:	DATE:	DESCRIPTION OF CHANGE:

STATE OF ALASKA
 DEPARTMENT OF TRANSPORTATION
 AND PUBLIC FACILITIES
 SOUTHEAST REGION DESIGN & CONSTRUCTION

KETCHIKAN
 KETCHIKAN AIRPORT FERRY TERMINAL
 DOLPHIN
 PROJECT No. GS-0922(a) / 68537
 KETCHIKAN TERMINAL, GENERAL LAYOUT

NOTE: DO NOT SCALE FROM THESE PLANS-USE DIMENSIONS
 DESIGNED BY: KDM
 DRAWN BY: BN
 CHECKED BY: KDM
 PROJECT NO. 68537
 DATE: SEPT, 2002
 SHEET 3 OF 6

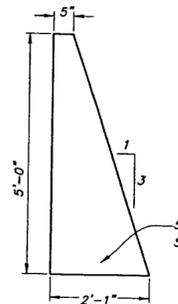




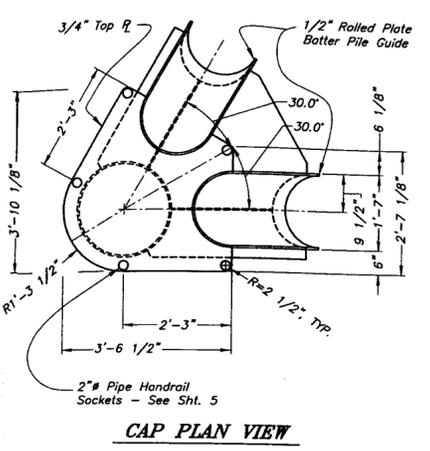
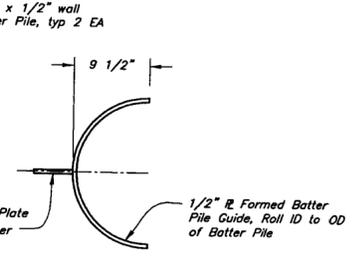
DOLPHIN ELEVATION

Note: See Sheet 5 for handrail & ladder details not shown.

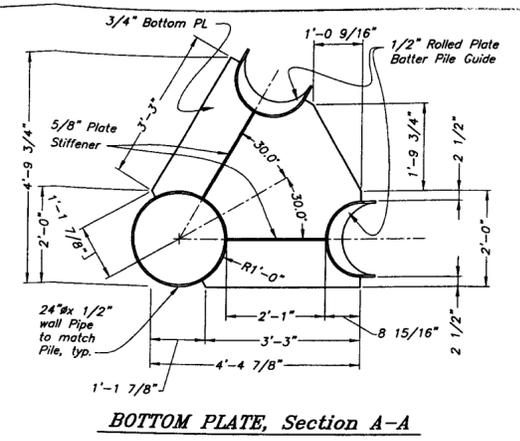
CAP STIFFENER DETAILS



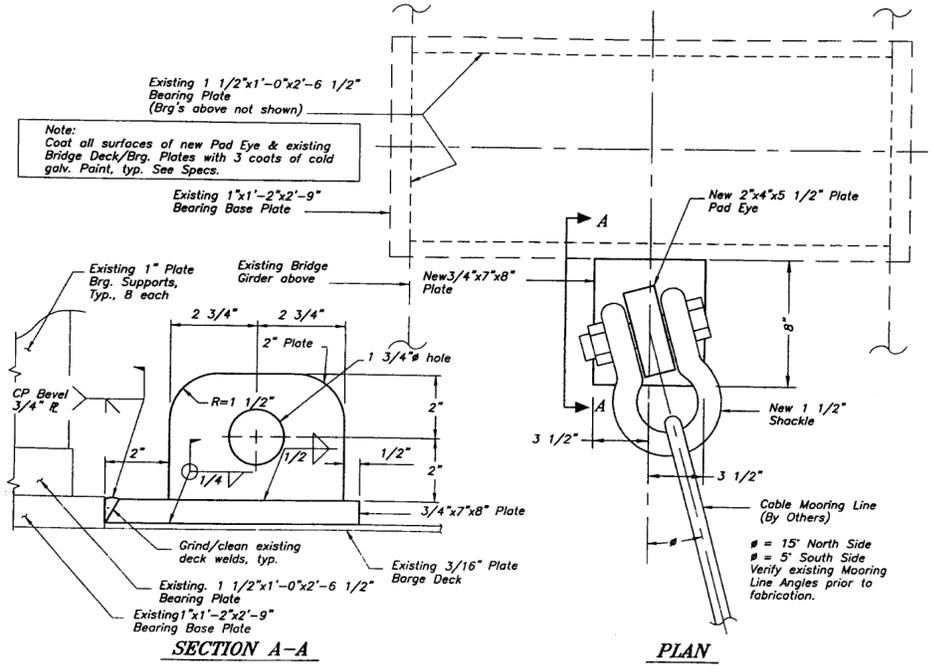
BATTER PILE GUIDE DETAIL



CAP PLAN VIEW



BOTTOM PLATE, Section A-A



SECTION A-A

PLAN

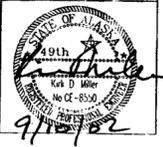
BRIDGE FLOAT MOORING ATTACHMENT
2 Each Req'd, North side shown, South side is mirror image

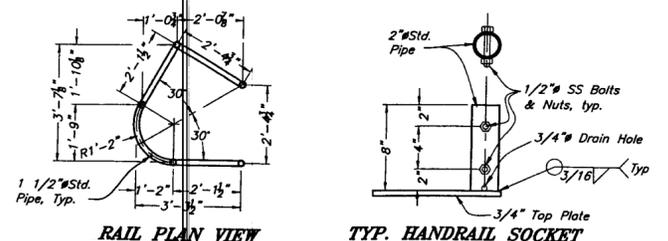
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STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES
SOUTHPAST REGION

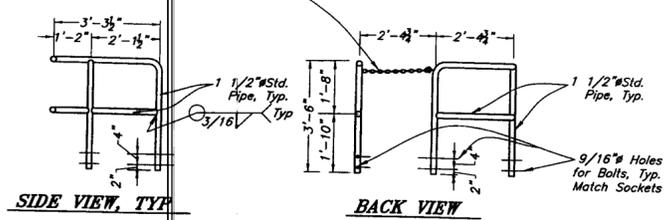
KETCHIKAN KETCHIKAN AIRPORT FERRY TERMINAL
DOLPHIN
Project No. MGS-0922(6) / 68537
DOLPHIN DETAILS & MOORING ATTACHMENT

DESIGNED BY: KDM	PROJECT NO. 68537
DRAWN BY: BN	DATE: SEPT, 2002
CHECKED BY: KDM	SHEET 4 OF 6

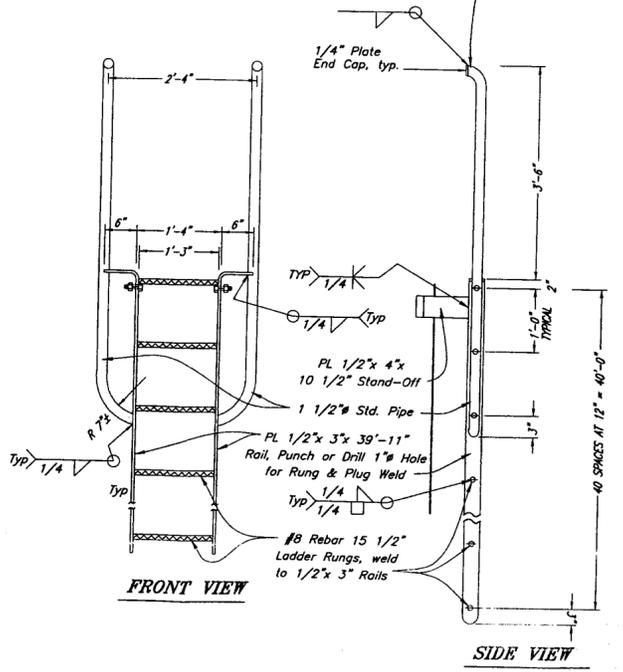
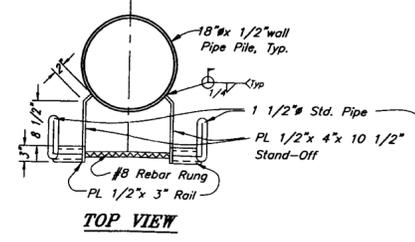
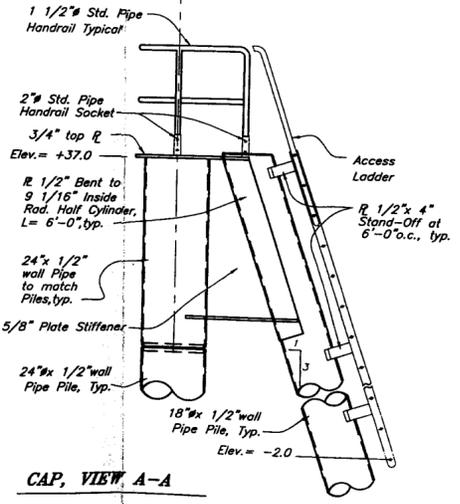
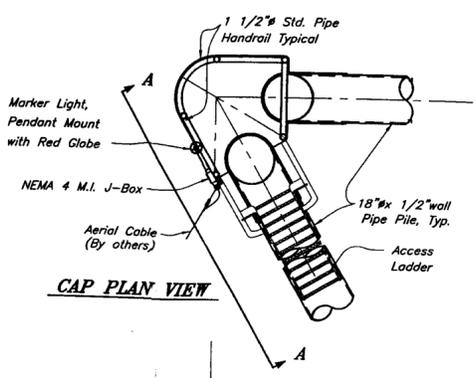
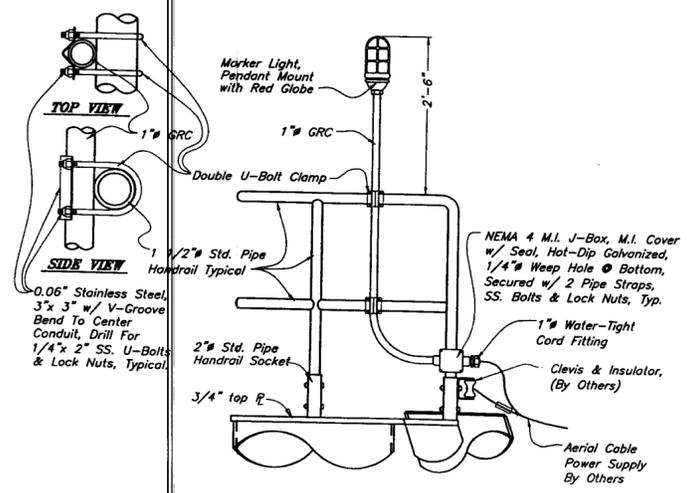




5/16" Galv. Chain w/ S-Hook One End Weld Chain & Eye To Posts. Make eye from one chain link or D-ring.



HANDRAIL DETAILS



ACCESS LADDER DETAILS

One Required at East Batter Pile, New Mooring Dolphin

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DATE	DESCRIPTION OF CHANGE
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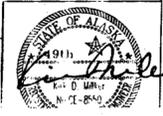
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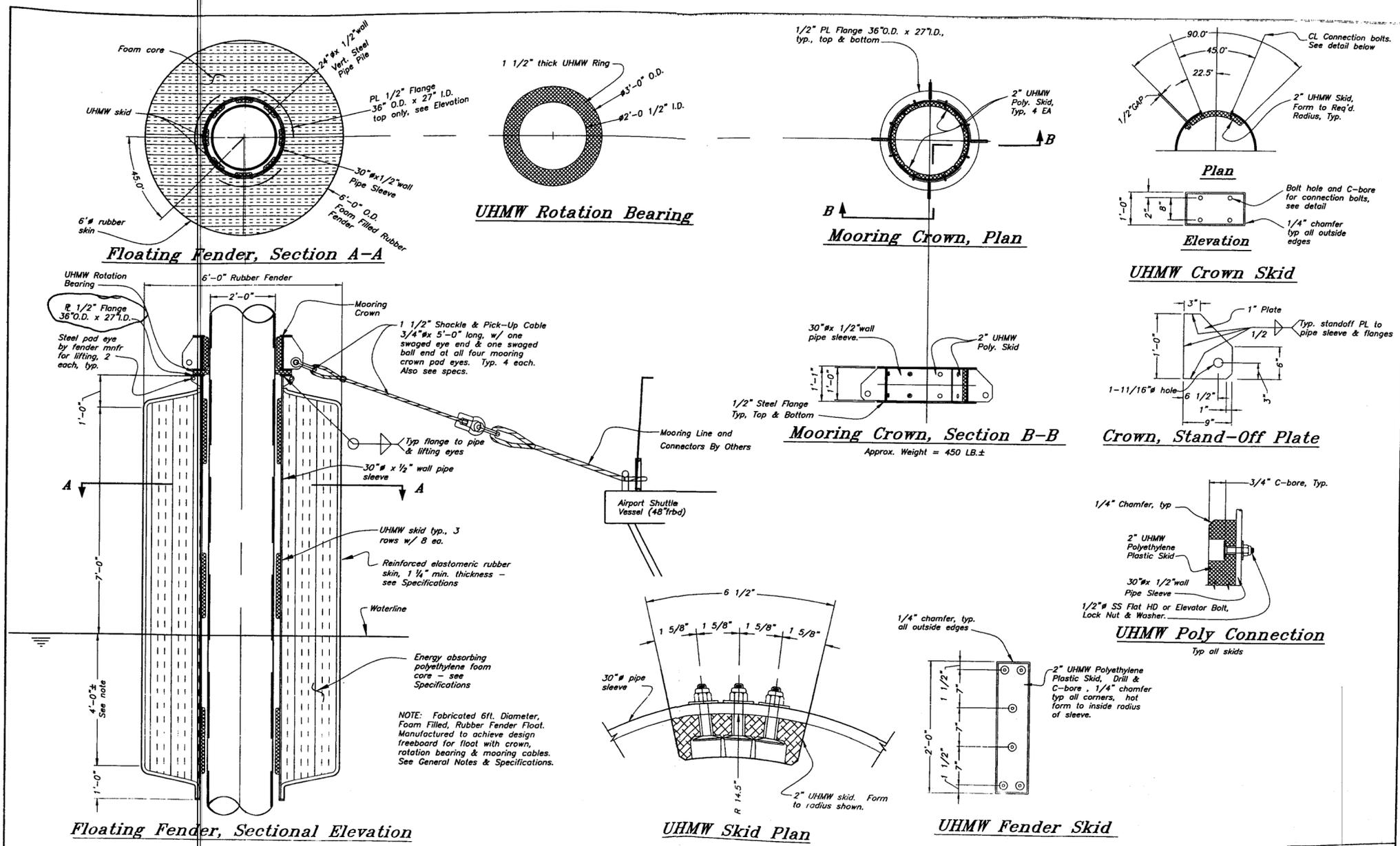
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES
SOUTHEAST REGION

KETCHIKAN
KETCHIKAN AIRPORT FERRY TERMINAL
DOLPHIN
Project No. MGS-09-22(e) / 68537
DOLPHIN DETAILS

NOTE: DO NOT SCALE FROM THESE PLANS-USE DIMENSIONS

DESIGNED BY: BN	PROJECT NO. 68537
DRAWN BY: BN	DATE: SEPT, 2002
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NO.	DATE	DESCRIPTION OF CHANGE

STATE OF ALASKA
 DEPARTMENT OF TRANSPORTATION
 AND PUBLIC FACILITIES
 SOUTHEAST REGION

KETCHIKAN
 KETCHIKAN AIRPORT FERRY TERMINAL
 DOLPHIN
 Project No. MGS-0922(6) / 68537

ALASKA

DOLPHIN, FLOATING RUBBER FENDER

NOTE: DO NOT SCALE FROM THESE PLANS—USE DIMENSIONS

DESIGNED BY: KDM
 DRAWN BY: BIN
 CHECKED BY: KDM

PROJECT NO. 68537
 DATE: SEPT, 2002
 SHEET 6 OF 6

