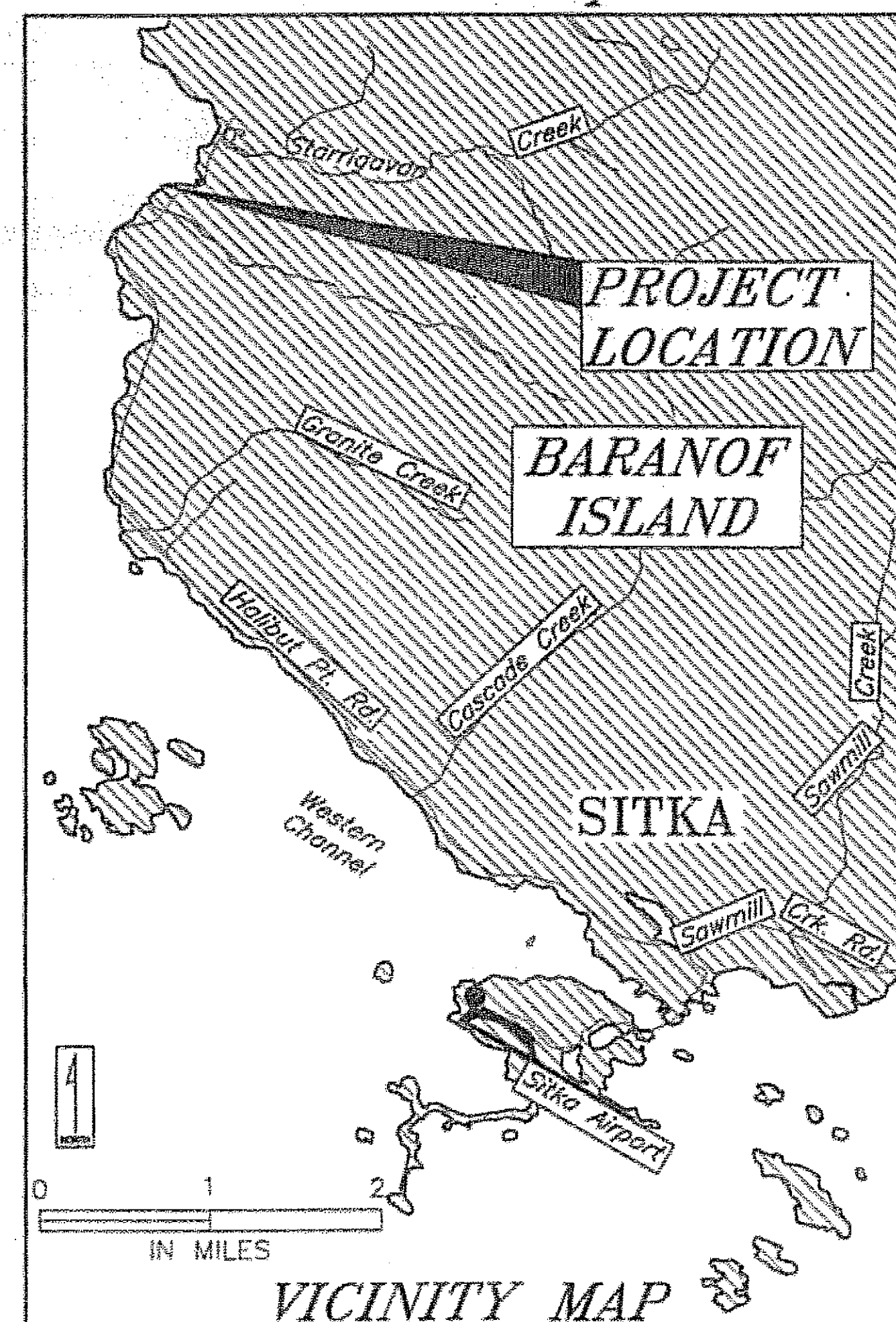
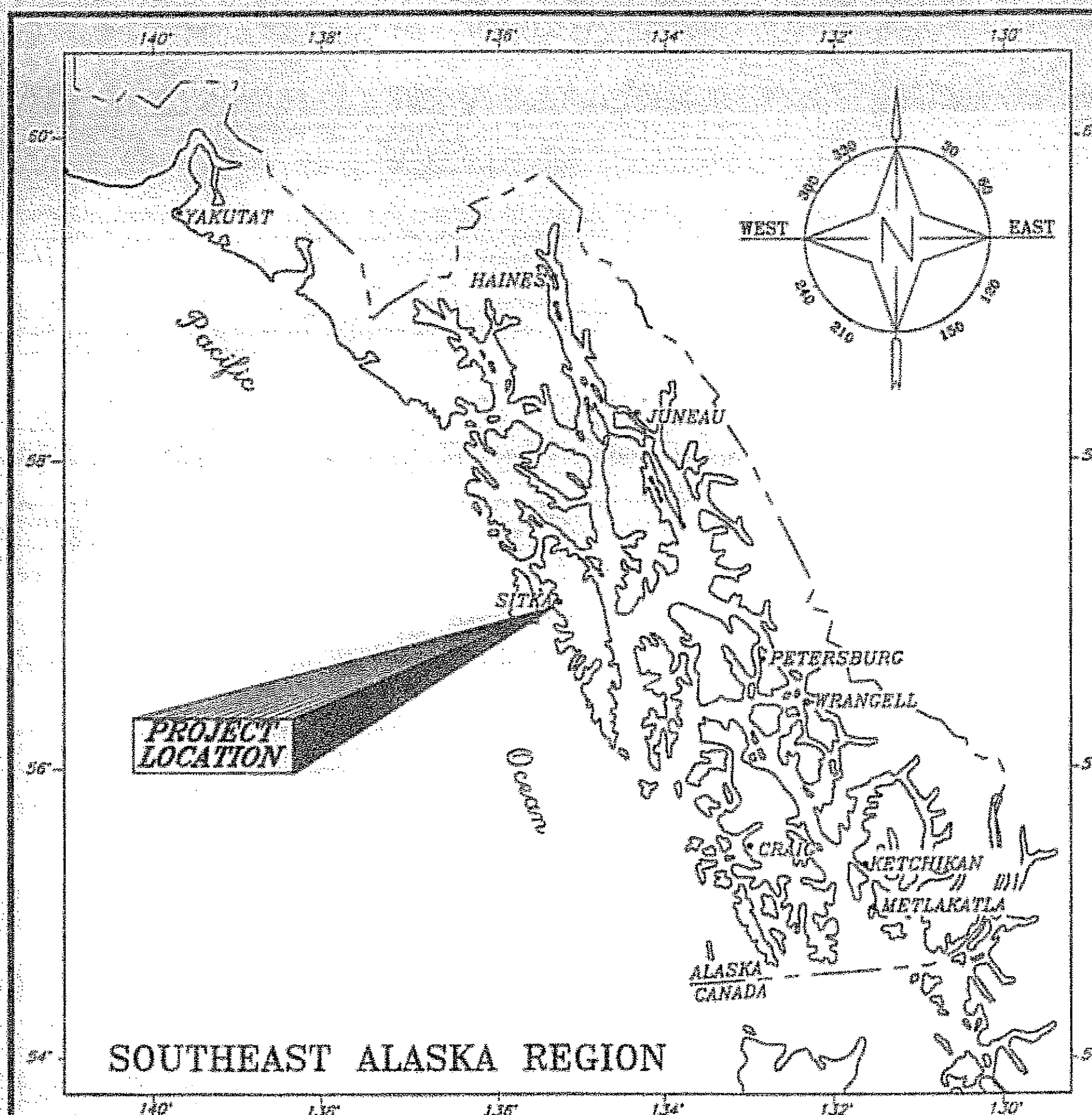




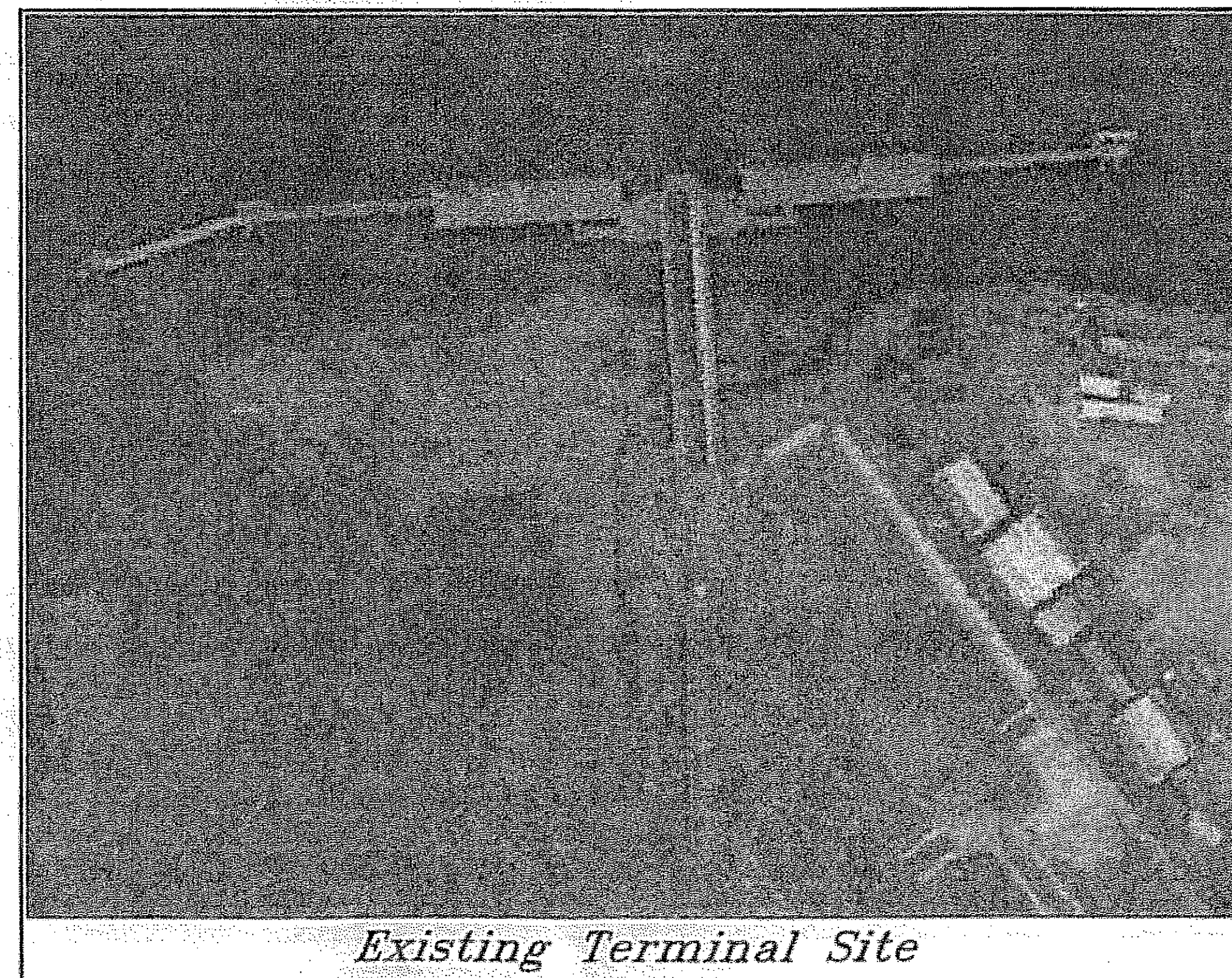
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND
PUBLIC FACILITIES
SOUTHEAST REGION

SITKA, ALASKA

*SITKA - ALL TIDE
MOORING IMPROVEMENTS
PROJECT NO. ACSTP-099-3(15)/68792*

AS-BUILT PLANS

CONTRACTOR: TAMICO
PROJECT ENGINEER: DON NEWELL
BEGIN DATE: FEB. 3, 2004
END DATE: FEB. 27, 2004



INDEX OF SHEETS

[illegible]

CO#1 Add additional 2" UHMW panels
See sheets 14, 13, 12.

As-built by Don Newell project Engineer.

Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge, the project as constructed.

Proj. Engr M. M. M. M. Date 10-10-06

STATE OF ALASKA DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES SOUTHEAST REGION	
APPROVED <i>[Signature]</i>	Date <u>9/9/23</u>
Regional Preconstruction Engineer Patrick J. Kamp	
APPROVED <i>[Signature]</i>	Date <u>9/9/03</u>
Director, S.E. Region Gary Paxton	
PROJECT NUMBER: <u>68792</u>	
DATE: <u>2003</u>	
SHEET <u>1</u> OF <u>15</u>	

GENERAL NOTES FOR MARINE STRUCTURES AND COMPONENTS

Specifications: Per Contract Documents for Project No. ACSTP-099-3(15)/68792

Construction: Per Contract Documents for Project No. ACSTP-099-3(15)/68792

Design Standards: AKDOT/PF & SOUTHEAST REGION MARINE ENGINEERING DESIGN STANDARDS & AASHTO

Design Loads: Mooring and Fender Structures:

Fast Vehicle Ferry Berthing @ 20ft-k service

Fast Vehicle Ferry Mooring Load @ 30 kips line load

Design Unit Stresses:

Steel: A36 $F_s = 20$ Ksi
A252 Gr. 2 $F_s = 19.25$ Ksi
A500 Gr. B $F_s = 25$ Ksi
A572 $F_s = 27$ Ksi
A709 $F_s = 27$ Ksi
A108 $F_s = 29$ Ksi
A608 Gr. D $F_s = 30$ Ksi

Concrete: Min. 28 day strength F_c : Class A-A = 5000 psi. & Class A = 4000 psi.

Reinforcement: $F_y = 60$ ksi

Materials:

Steel: Tube Sections A500 Gr. B
Pile A252 Gr. 2, A501 or A53, Gr. B,
Type E or S, A572 Grade 50
Pipe A53, Gr. B, Type E or S
Stainless Type 302, 304 or 316
All other shall be A36, A572, or A709 as noted.
Charpy Group 2 impact requirements shall apply.

Concrete: Class A-A per Section 501

Protective Coatings:

All steel, piling, structures, assemblies and weldments: Galvanized after fabrication per Technical Spec's, unless otherwise noted.

Piling:

Size: As shown on plans

Tips: Reinforced tips w/ APF 0-14000 or APF 0-14001 Drive Shoes or Approved Equal. Drive Shoes Are Required On All Piling.

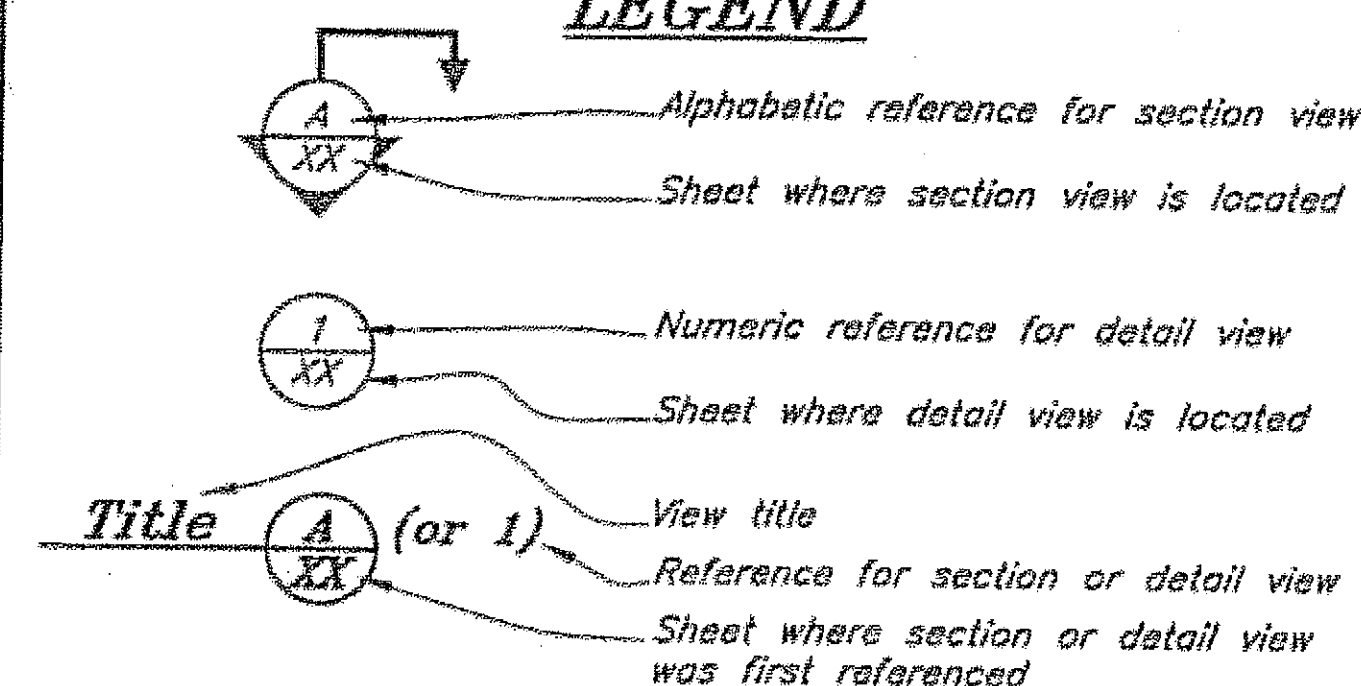
Anchoring Requirements: See Pile Layout Sheets, Tables and Technical Spec's

Driving Requirements: See Pile Layout Sheets, Tables and Technical Spec's

ESTIMATE OF QUANTITIES

ITEM NO.	ITEM	EST. UNIT	ESTIMATE QUANTITY
202	REMOVAL OF STRUCTURES AND OBSTRUCTIONS	L.S.	ALL REQUIRED
504(1)	FLOATING FENDER CAP (E1), SLIDE & ATTACHMENTS	EACH	1
504(2)	BACKUP STRUCTURE CAP (EB), STRUT, & ATTACHMENTS	EACH	1
504(3)	FLOATING FENDER CAP (W1) & ATTACHMENTS	EACH	1
504(4)	NEW DOCK FENDER PANELS & REALIGN EXISTING CATWALK	L.S.	ALL REQUIRED
504-1A	FENDER PANELS, CO 1	L.S.	ALL REQUIRED
505(1)	30" DIA. X 1/2" WALL PIPE PILES, FURNISHED	L.F.	27.99
505(2)	30" DIA. X 1/2" WALL PIPE PILES, DRIVEN	EACH	1
505(3)	24" DIA. X 1/2" WALL PIPE PILES, FURNISHED	L.F.	377
505(4)	24" DIA. X 1/2" WALL PIPE PILES, DRIVEN	EACH	3
505(5)	18" DIA. X 1/2" WALL PIPE PILES, FURNISHED	L.F.	555
505(6)	18" DIA. X 1/2" WALL PIPE PILES, DRIVEN	EACH	4
518(1)	PRESTRESSED PILE ANCHORS (30" DIA. PILES)	EACH	+ 0
518(2)	PRESTRESSED PILE ANCHORS (24" DIA. PILES)	EACH	+ 0
518(3)	PRESTRESSED PILE ANCHORS (18" DIA. PILES)	EACH	+ 0
518(4)	STATIC PILE ANCHORS (24" DIA. PILES)	EACH	1
518(5)	PILE ANCHORS, FURNISHED	L.S.	ALL REQUIRED
520(1)	FLOATING RUBBER FENDER & CROWN (E1)	EACH	1
520(2)	FLOATING RUBBER FENDER & CROWN (W1)	EACH	1
640	MOBILIZATION & DEMOBILIZATION	L.S.	ALL REQUIRED
641(1)	EROSION & POLLUTION CONTROL ADMINISTRATION	L.S.	ALL REQUIRED
641(2)	TEMPORARY EROSION & POLLUTION CONTROL	C.S.	ALL REQUIRED
642(1)	CONSTRUCTION SURVEYING	L.S.	ALL REQUIRED

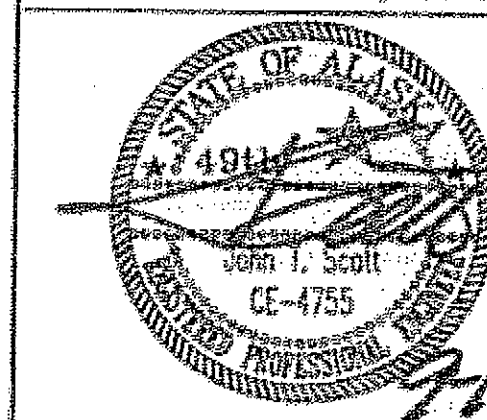
LEGEND



Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge, the project as constructed.
Proj. Engr. *[Signature]* Date 10/6/03

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

DESIGNED BY: J. Scott / B. Savikko



CHECKED BY: B. Savikko / J. Beedle

DRAWN BY: B. Savikko / T. Mares

PATH: Q:\SIT\67931\MF\Plans\Phi1 & COE\002-Estimate of Quantities Phase I.dwg

PLGT: PSPACE 1=1

Tue, 16/Sep/03 01:57PM

NO.	DATE	REVISIONS DESCRIPTION	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
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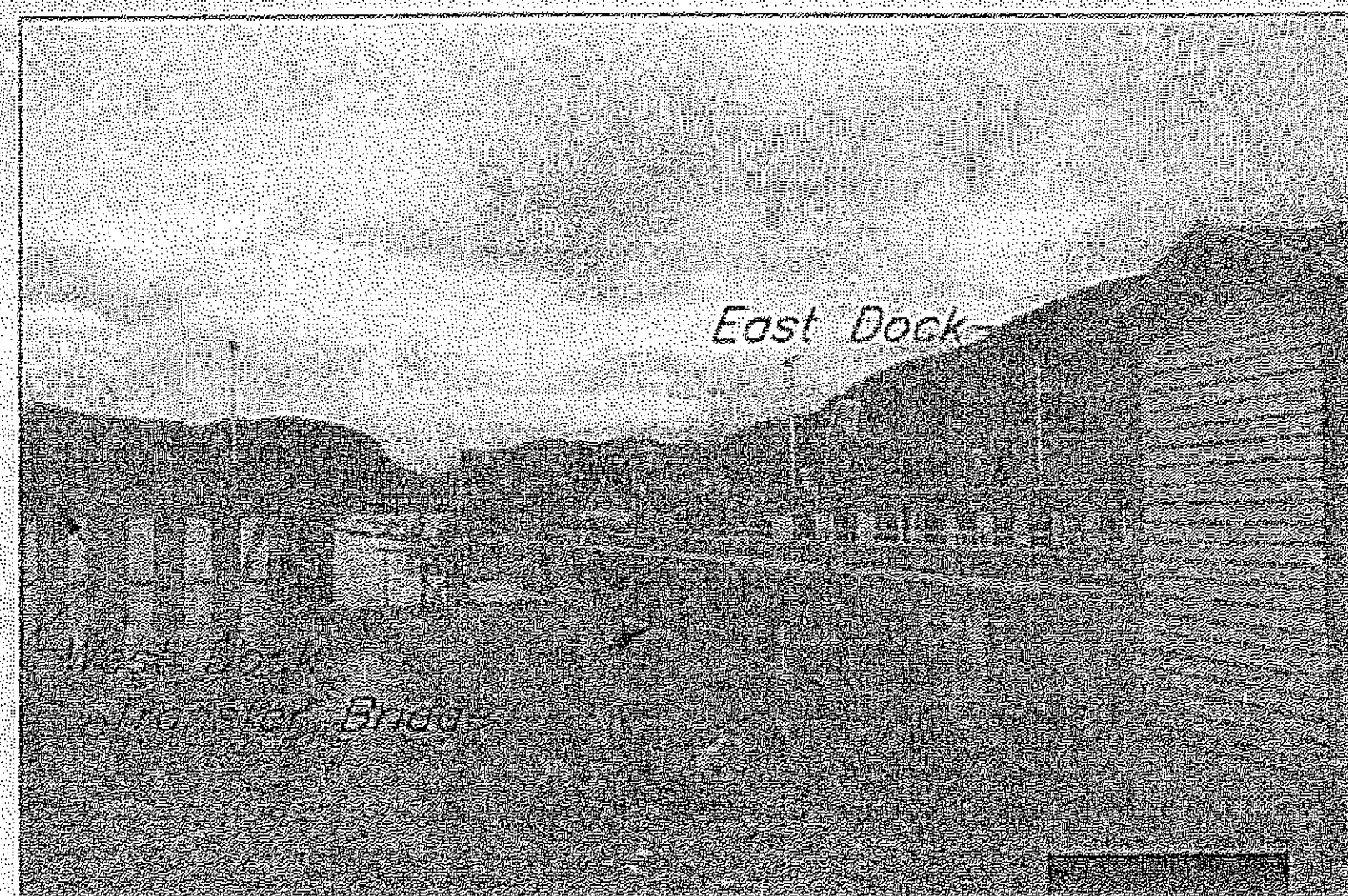


Photo 1

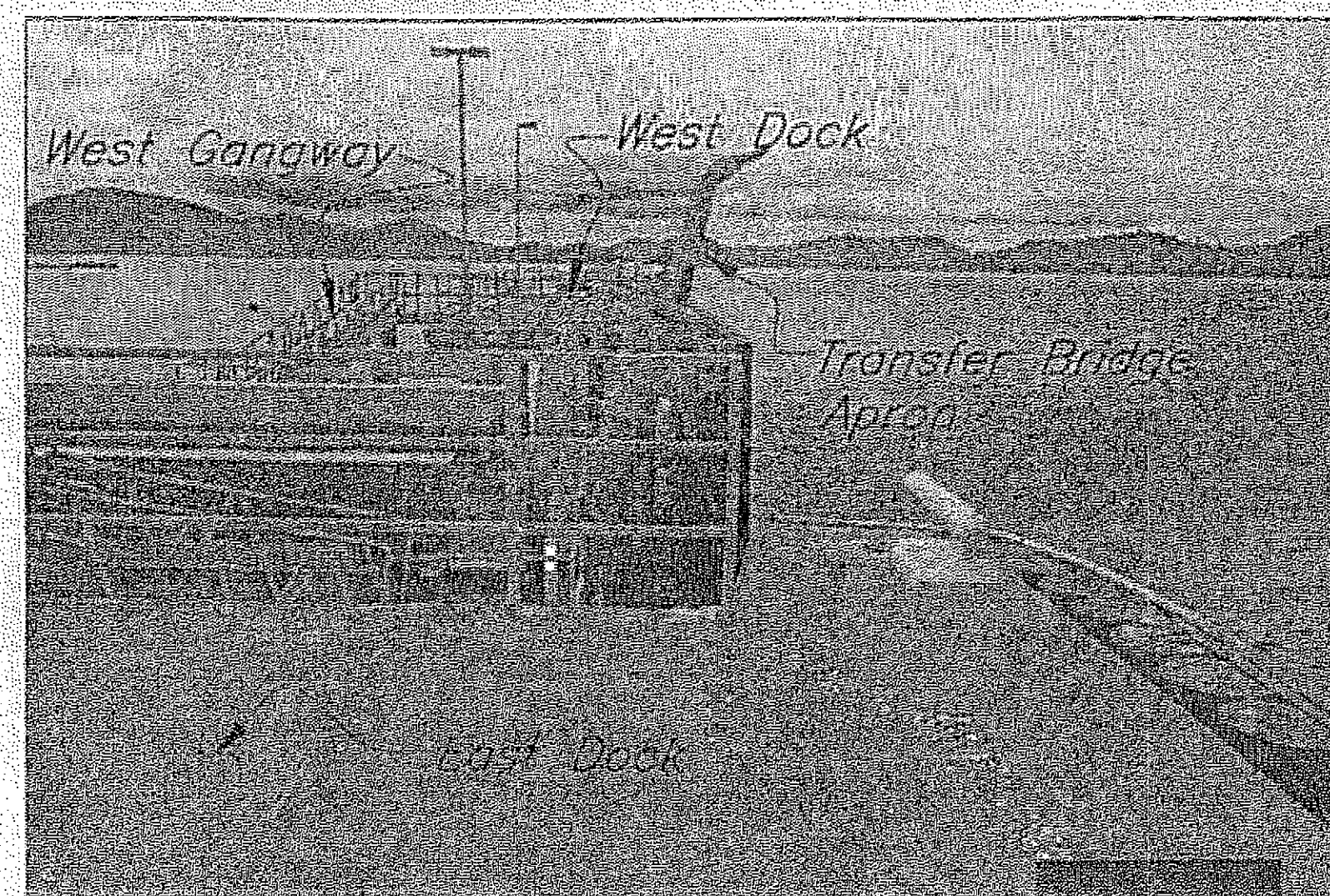


Photo 2



Photo 3

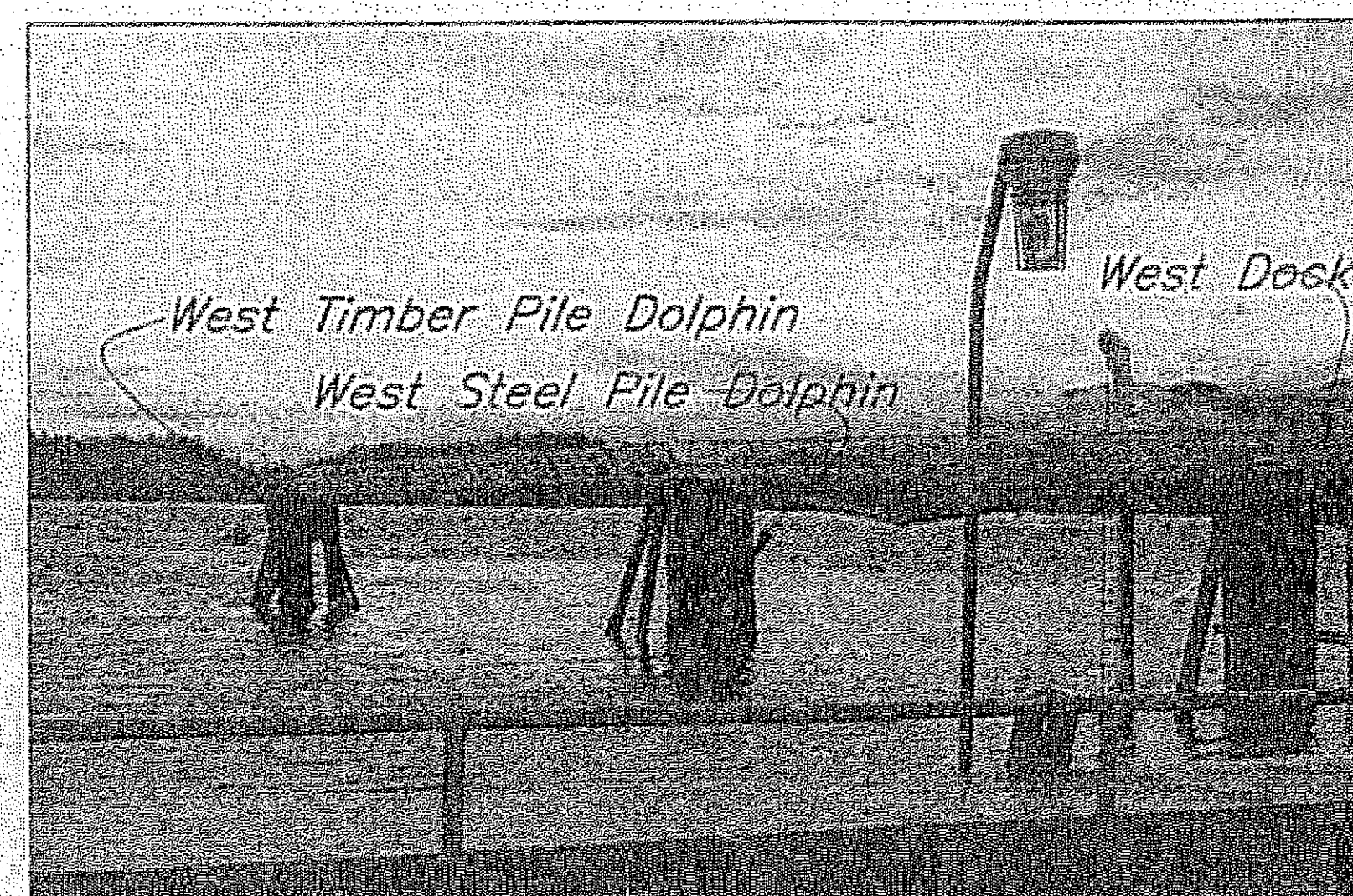


Photo 4

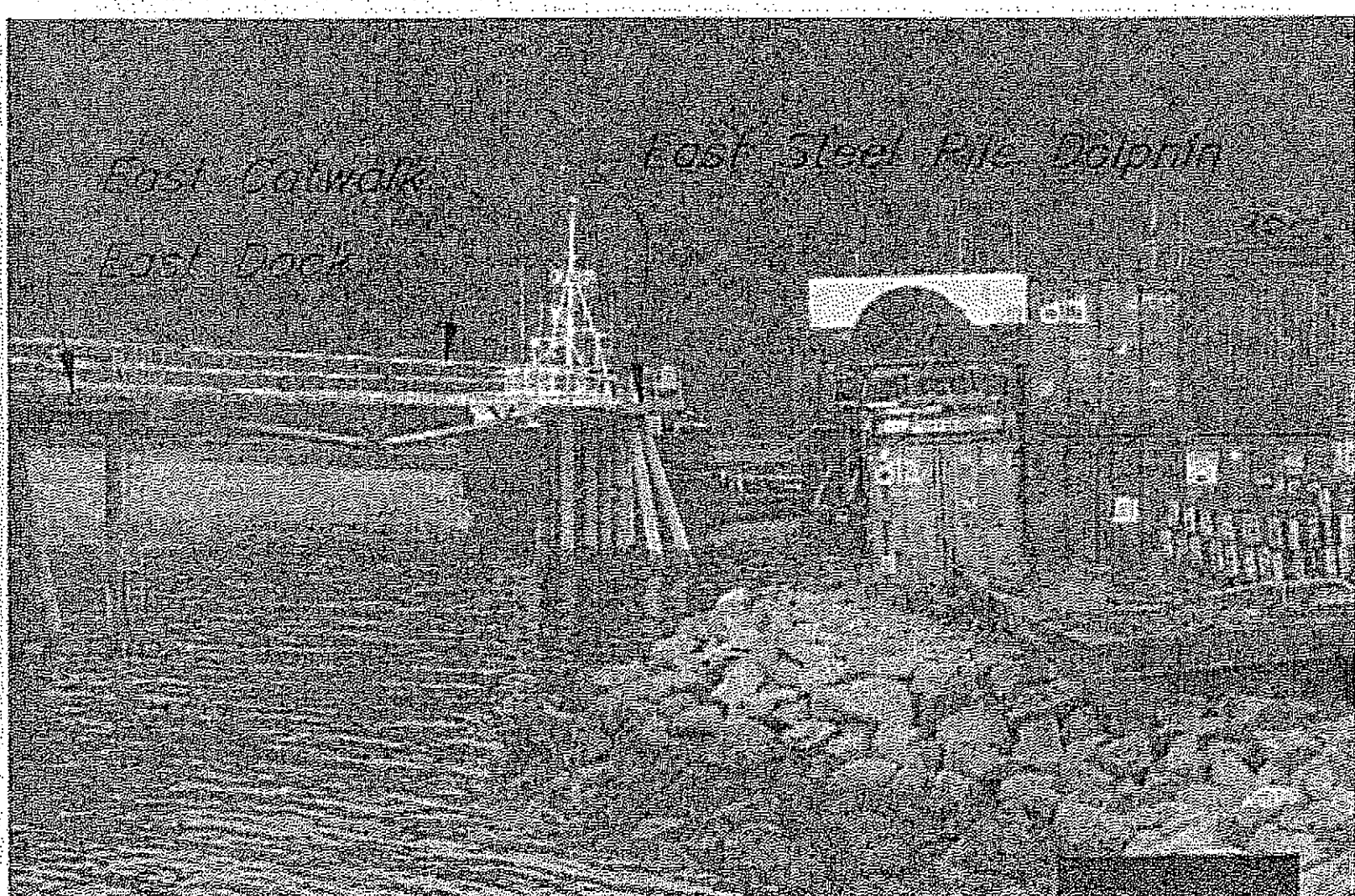


Photo 5

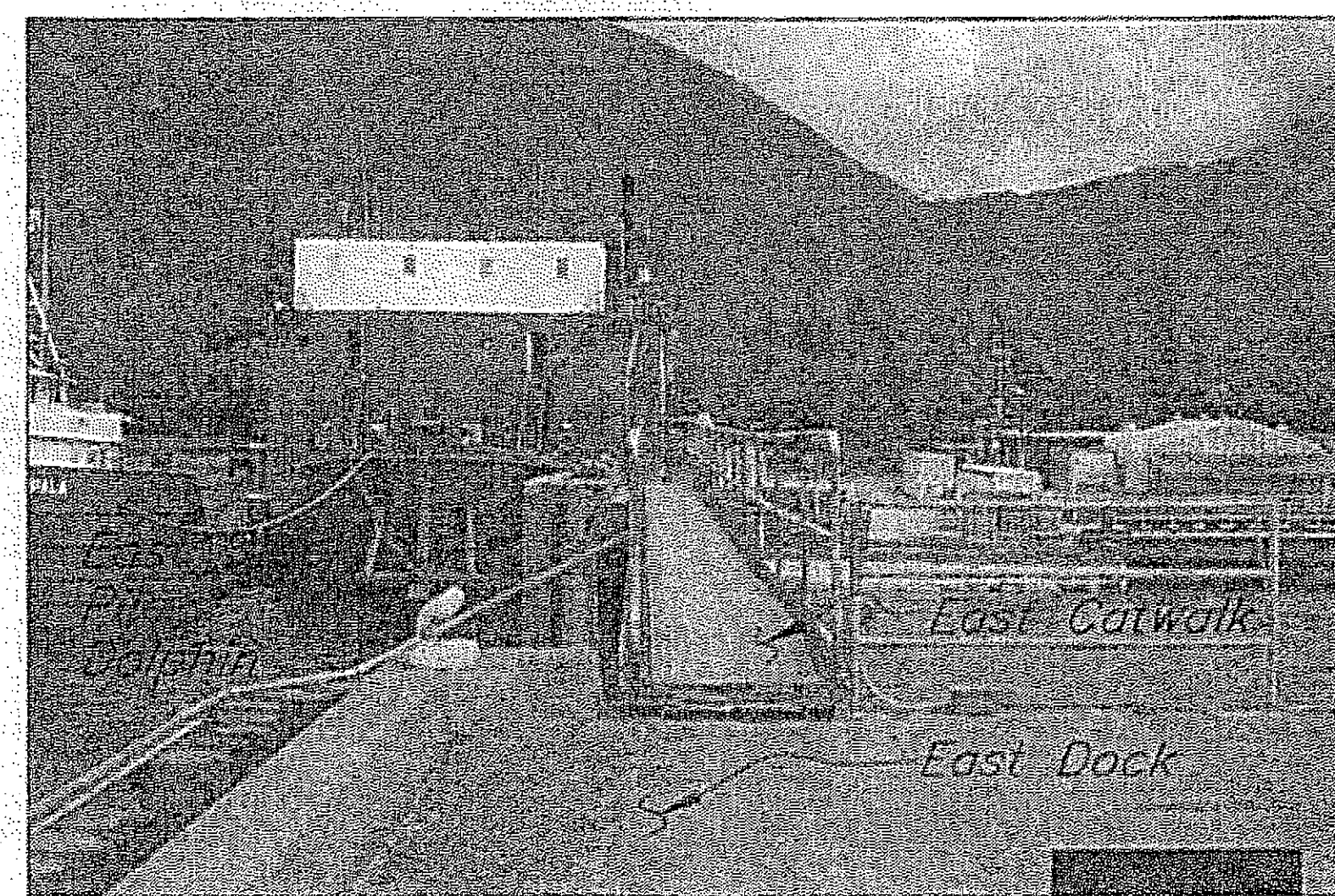
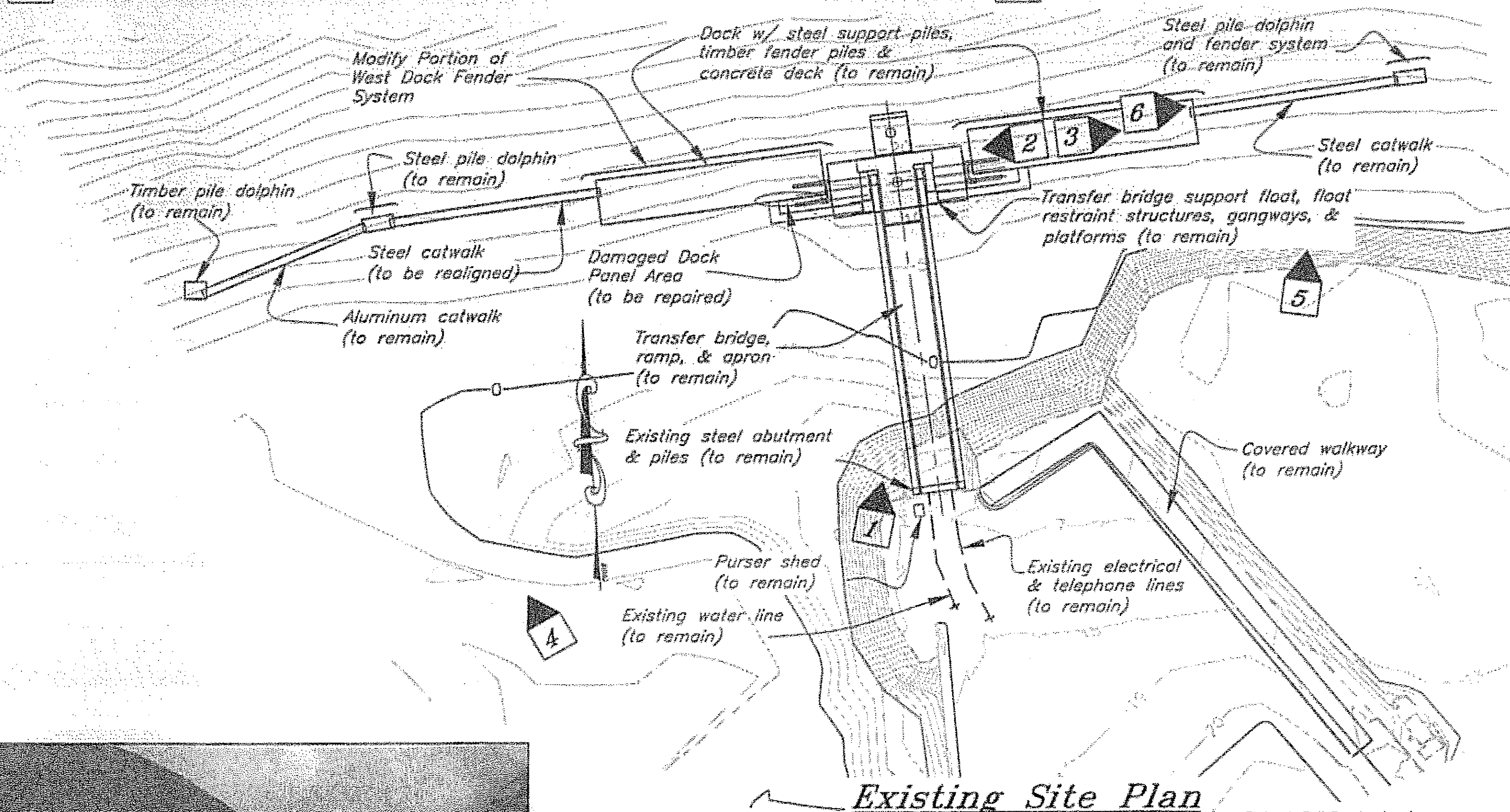


Photo 6



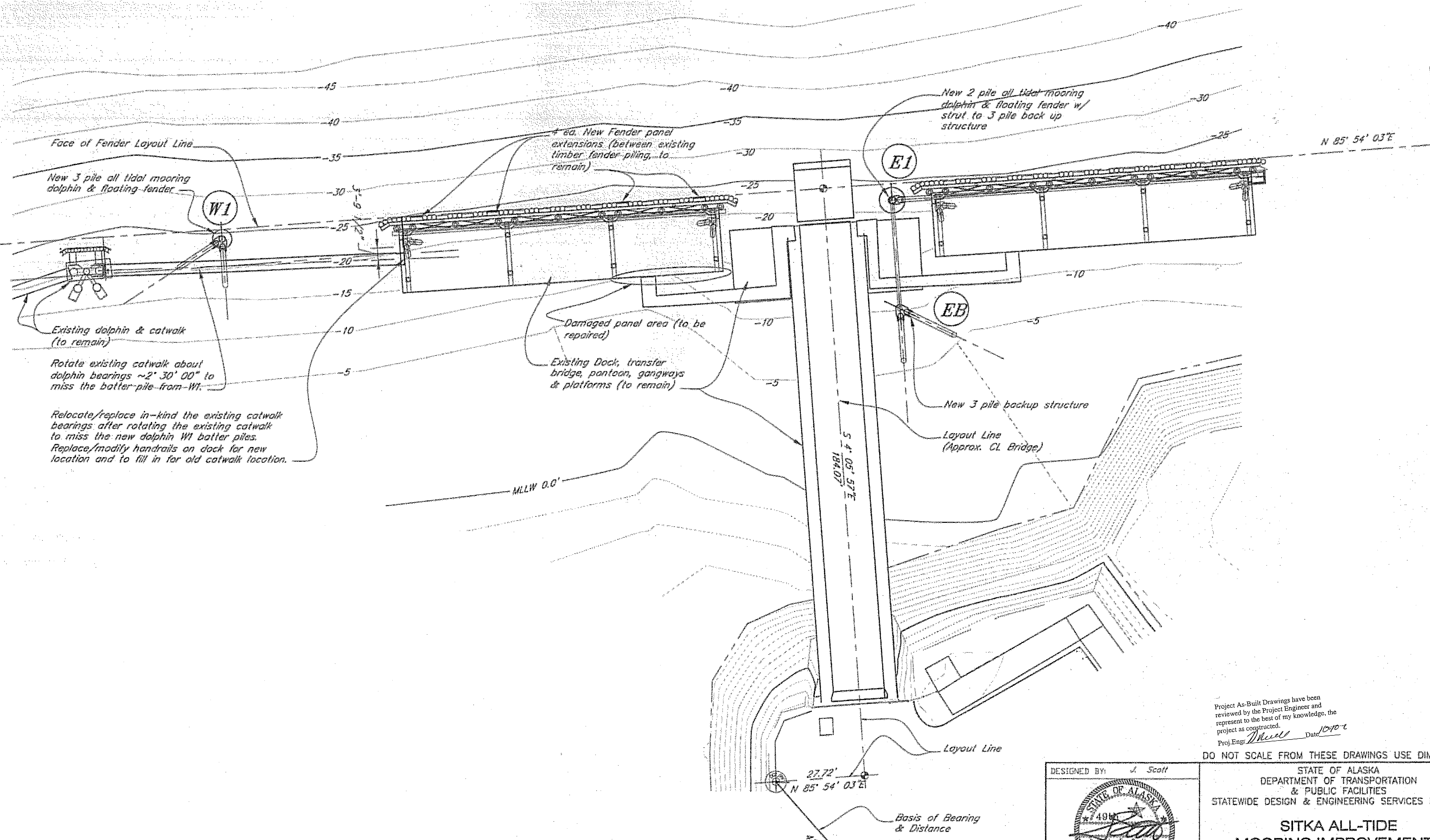
Existing Site Plan

Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge, the project as constructed.

Proj. Engr. *Dr. H. H. H.* Date *06/06*

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

DESIGNED BY: <i>J. Scott</i>		STATE OF ALASKA DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES STATEWIDE DESIGN & ENGINEERING SERVICES DIVISION									
		SITKA ALL-TIDE MOORING IMPROVEMENTS PROJECT NO. 68792 Existing Marine Layout									
		CHECKED BY: <i>J. Scott</i> DRAWN BY: <i>C. Finner</i> PATH: <i>Q:\SIT\6792\My Planset\PH1 & COE\003-Existing Site Plan Phase 1.dwg</i> PLOT: PSPACE 1=1 TAB: DETAIL Mon, 18/Aug/03 11:17AM									
REVISIONS <table border="1"> <thead> <tr> <th>NO.</th> <th>DATE</th> <th>DESCRIPTION</th> </tr> </thead> <tbody> <tr> <td> </td> <td> </td> <td> </td> </tr> </tbody> </table>		NO.	DATE	DESCRIPTION				PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
NO.	DATE	DESCRIPTION									
		68792	2003	3	15						



Face of Fender Layout Line

New 3 pile all tidal mooring dolphin & floating fender

W1

Existing dolphin & catwalk (to remain)

Rotate existing catwalk about dolphin bearings ~2° 30' 00" to miss the batter pile from W1.

Relocate/replace in-kind the existing catwalk bearings after rotating the existing catwalk to miss the new dolphin W1 batter piles. Replace/modify handrails on dock for new location and to fill in for old catwalk location.

6a. New Fender panel extensions (between existing timber fender piling, to remain)

Damaged panel area (to be repaired)

Existing Dock, transfer bridge, pantoon, gangways & platforms (to remain)

New 2 pile all tidal mooring dolphin & floating fender w/ strut to 3 pile back up structure

E1

EE

New 3 pile backup structure

Layout Line (Approx. CL Bridge)

Layout Line

27.72' N 85° 54' 03"E

Basis of Bearing & Distance

Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge, the project as constructed.
Proj. Engr. *W. M. M.* Date *10/10/03*

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

DESIGNED BY: J. Scott

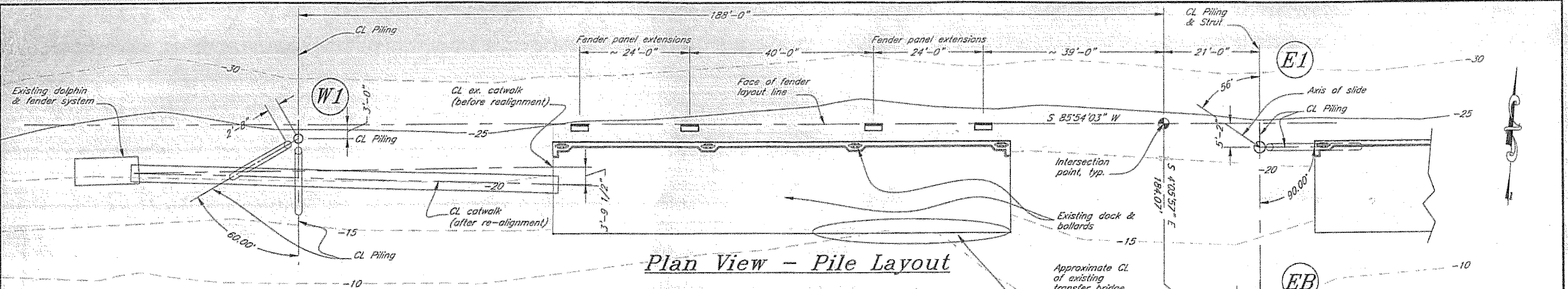
CHECKED BY: J. Bendie
DRAWN BY: J. Scott, T. Mares

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
& PUBLIC FACILITIES
STATEWIDE DESIGN & ENGINEERING SERVICES DIVISION

**SITKA ALL-TIDE
MOORING IMPROVEMENTS
PROJECT NO. 68792**

New Marine Layout

PATH: Q:\SIT\68792\41\Plan\Set\Ph1 & COE\004 New Site Layout Phase 1.dwg			PLOT: PSPACE 1=1		
REVISIONS			PROJECT DESIGNATION		
NO.	DATE	DESCRIPTION	68792	YEAR	SHEET NO.
				2003	4
			TOTAL SHEETS		
			15		



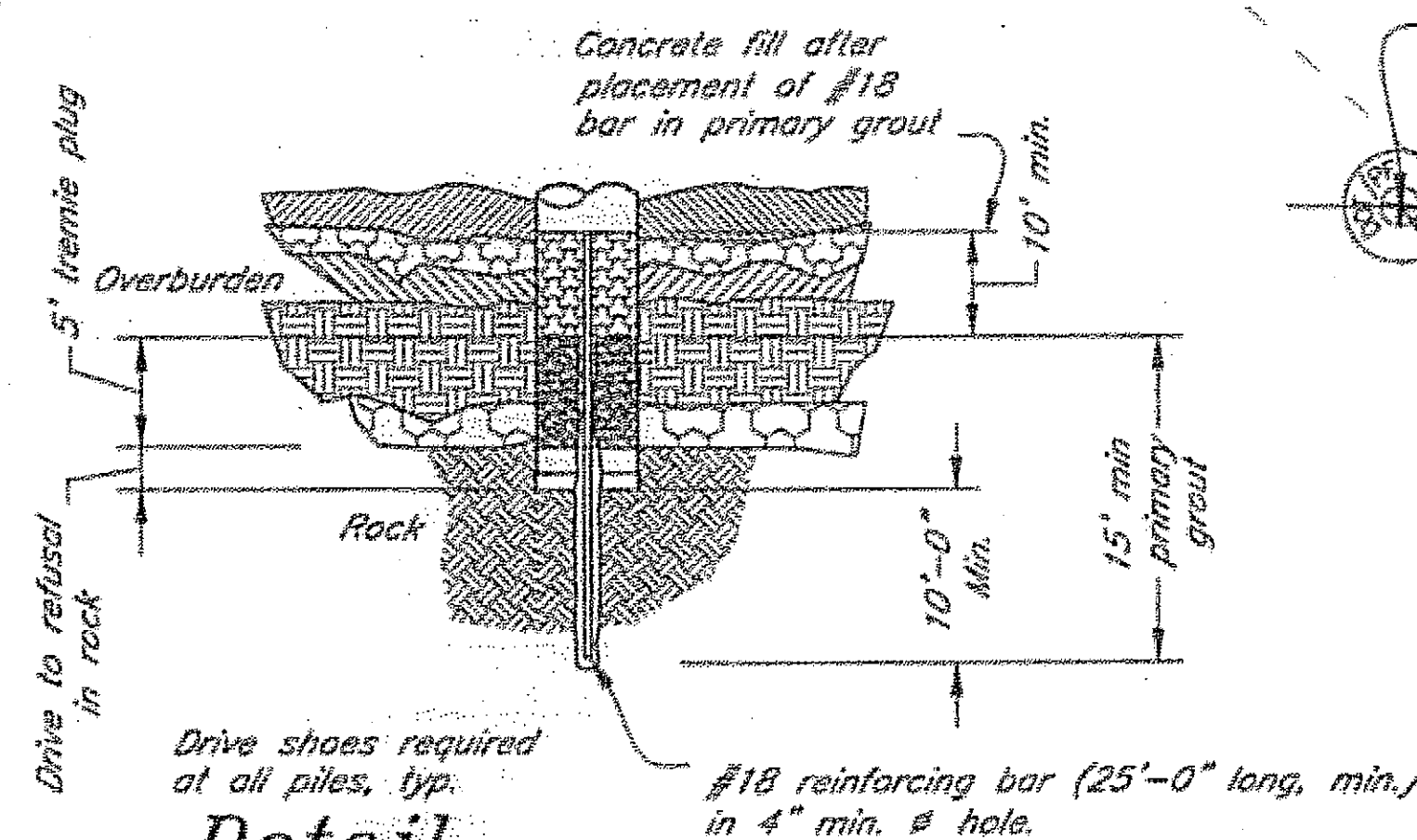
Plan View - Pile Layout

SIDE BERTH PILE TABLE											
FILE LOCATION, STRUCTURE ORIENTATION & (pile tip)	PILES	DIA. Inches	CAPACITY (TONS)		ELEVATIONS		TIP ELEVATIONS		TOTAL EST. LENGTH		
			BEARING	UPLIFT	~ D.G.	CUT-OFF	MIN.	EST.	18	24	30
DOLPHIN E1											
** Vertical	1	30	N/A	N/A	-22	7	-80	-90	---	140	---
* Batter (1:3)	1	24	75	75	-22	37	-90	-95	---	---	97
DOLPHIN EB											
* Vertical	1	24	50	35	-10	31	-70	-80	---	111	---
* Batter (1:4)	2	18	50	35	-5	37	-80	-95	280	---	---
DOLPHIN W1											
** Vertical	1	24	N/A	N/A	-24	31	-85	-95	---	126	---
* Batter (1:4)	2	18	50	50	-18	37	-85	-95	275	---	---
Total									555	377	97

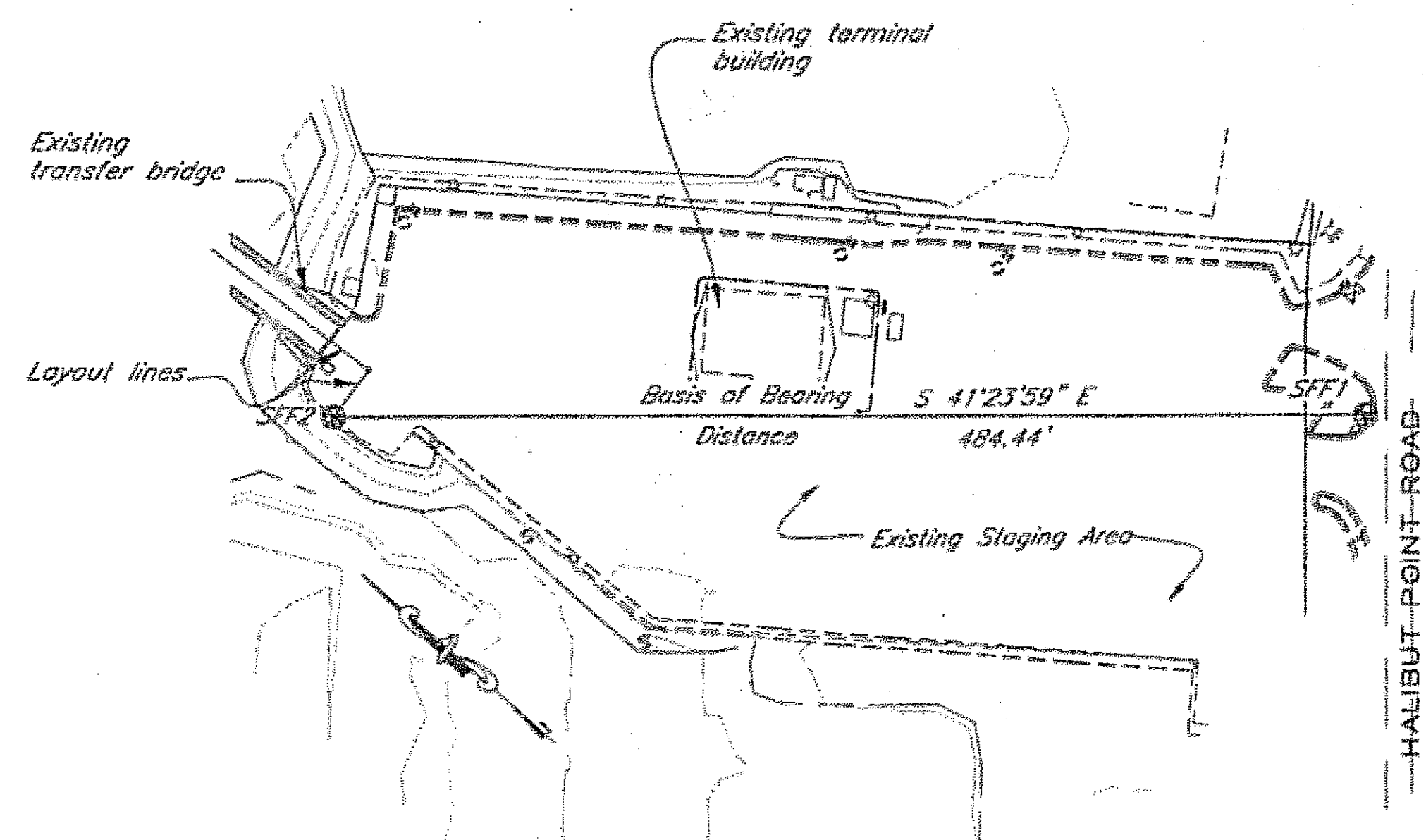
* Drive to bearing at or below min. tip elevation. If bearing or refusal at or above min tip prestressed rock anchor shall be installed.

** Drive pile tip at or below min. tip elevation. If refusal at or above min tip elev. static rock anchor shall be installed. Do not drive beyond estimated tip elevation regardless of bearing achieved.

Note: All piles 1/2" wall thickness



Detail Static Rock Anchor



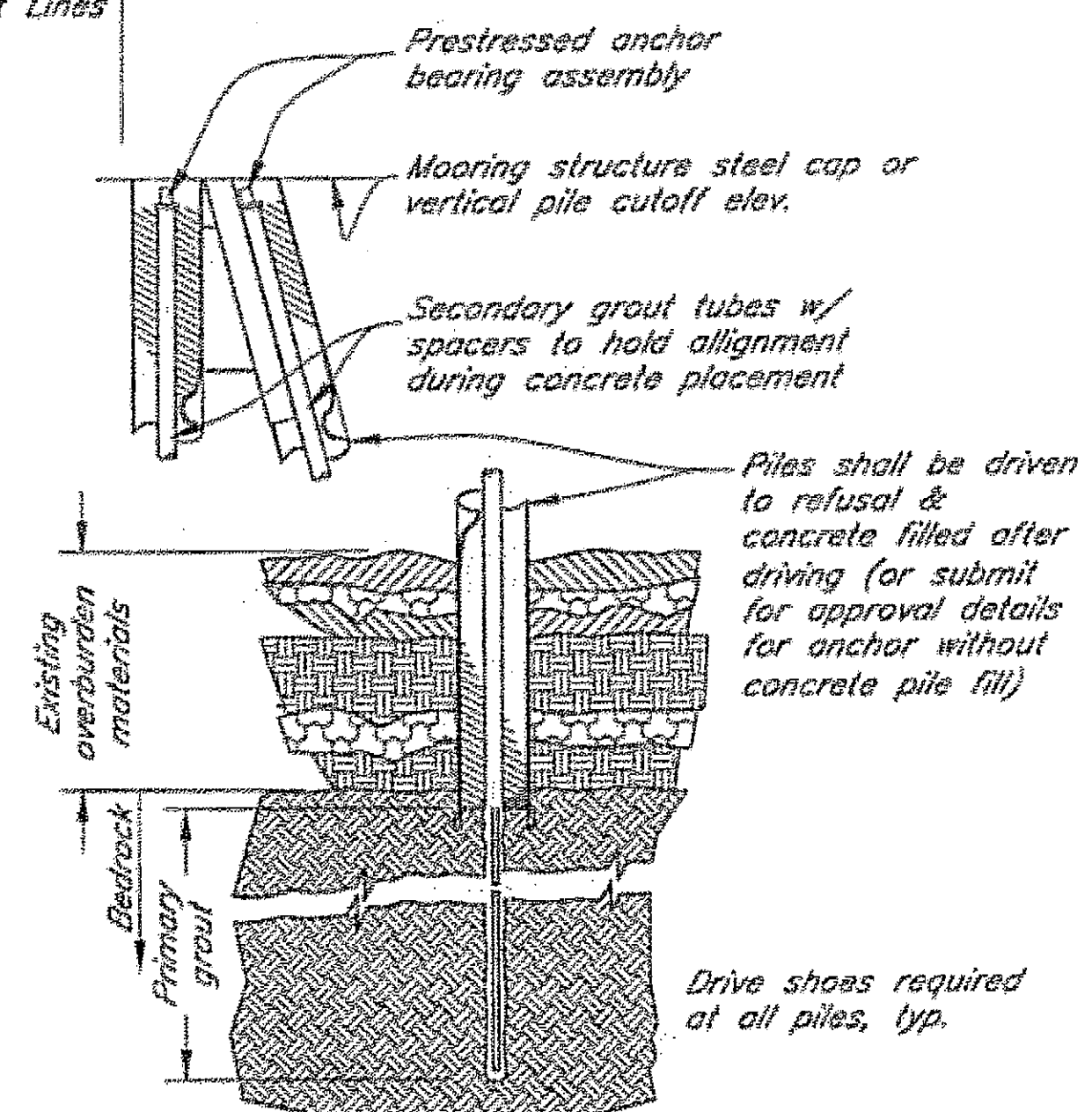
Plan Basis of Bearing & Distance

Remove Loose Soil From The Inside Of Pile After Driving.

NOTE: Prestressed Anchor Shall Be Used Only When Directed By Project Engineer.

Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge, the project as constructed.

Proj. Engr. J. Scott Date 10/10/00



Prestressed Pile Anchor (submit design for approval)

HORIZONTAL CONTROL

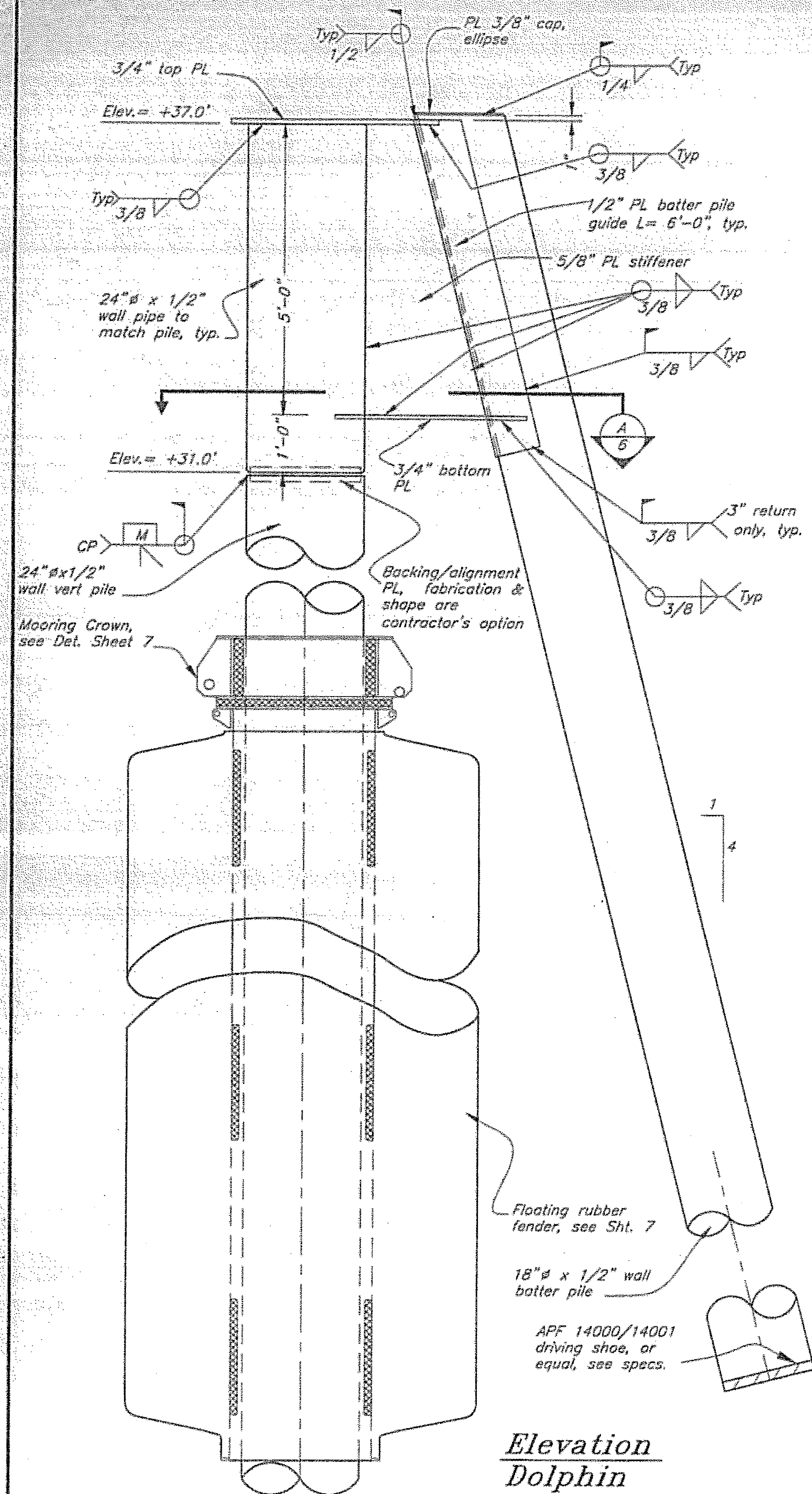
The basis of horizontal control for this project is from DOT/PF 2" ALCAP "SFF-2" to DOT/PF 2" brass cap "SFF-1". Bearing S 41° 23' 59" E a distance of 484.44'

VERTICAL CONTROL

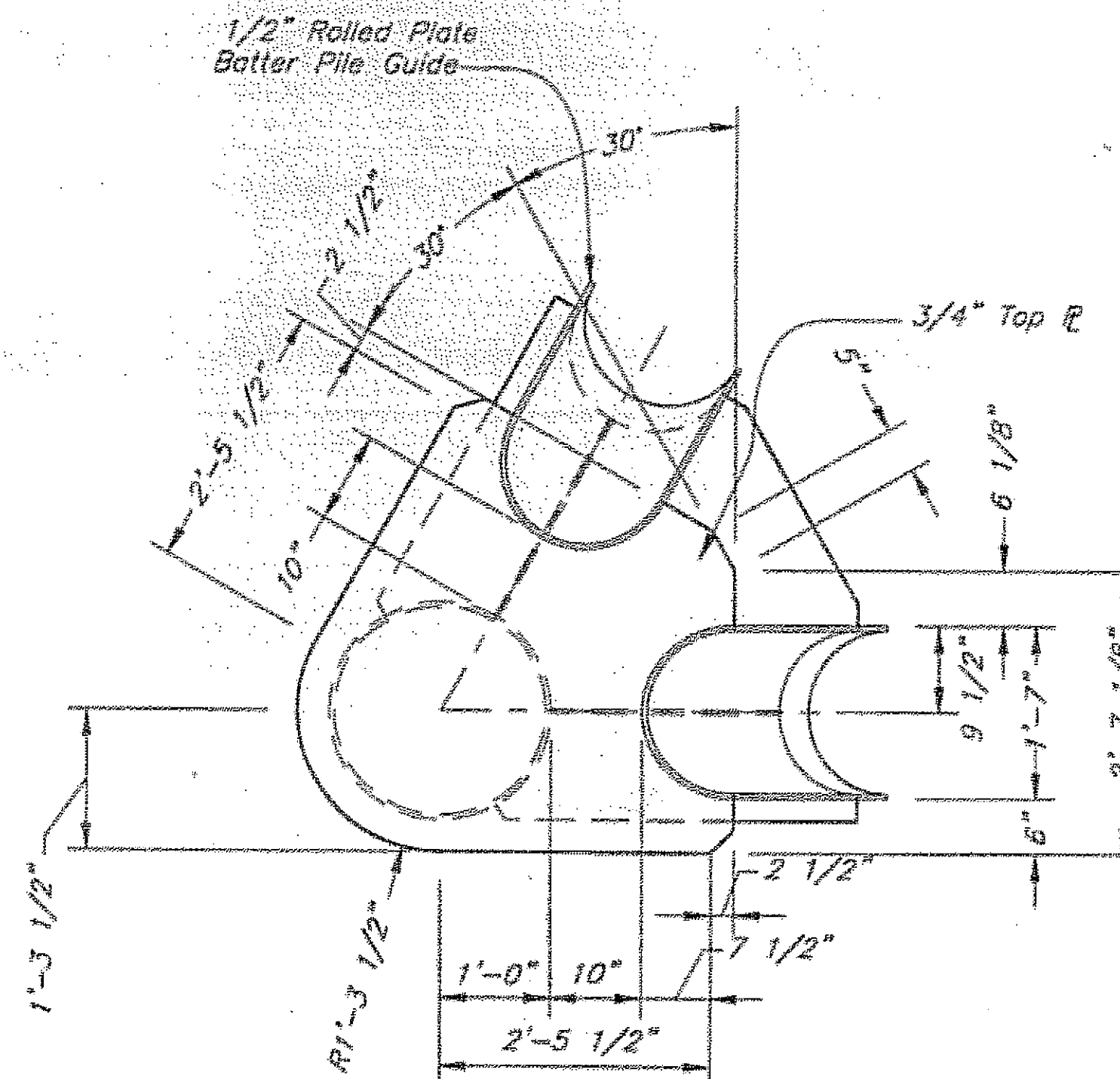
The project specific basis of vertical control is the DOT/PF 2" ALCAP "SFF-2", w/ an accepted elevation of 17.04' above MLLW.

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

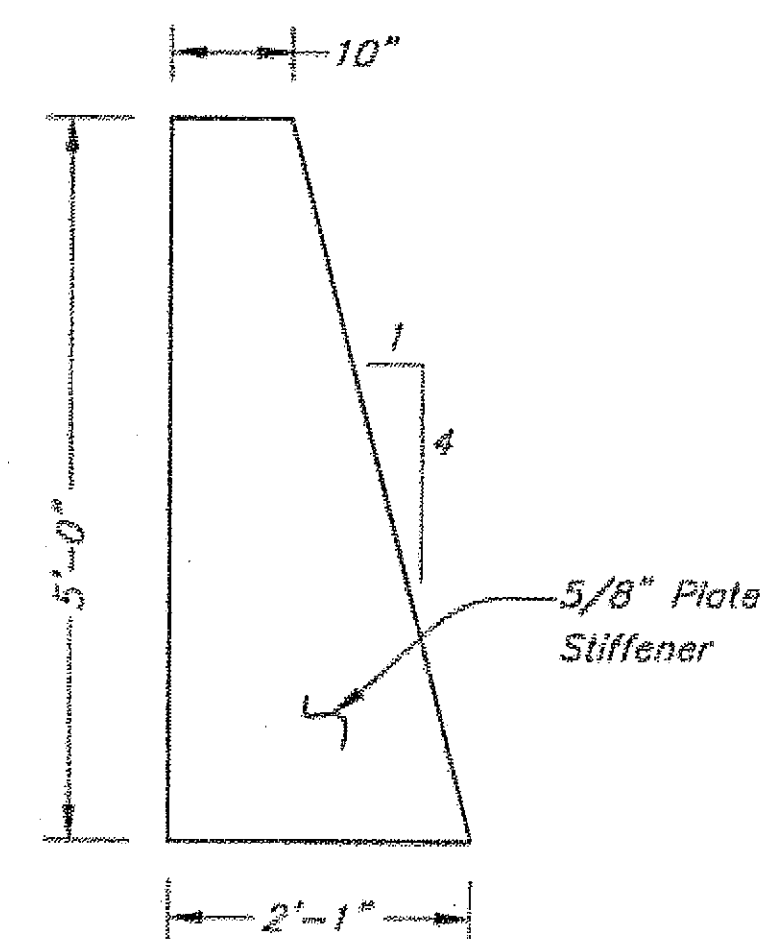
DESIGNED BY: J. Scott	STATE OF ALASKA DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES STATEWIDE DESIGN & ENGINEERING SERVICES DIVISION			
	SITKA ALL-TIDE MOORING IMPROVEMENTS PROJECT NO. 68792			
	Pile Layout & Survey Control			
CHECKED BY: J. Bledie	PATH: C:\SIT\68792\1\MP\Plans\Ph1 & GDE\005-Pile Layout & Survey Control.dwg			
DRAWN BY: J. Scott	PLOT: PSPAGE 1 of 1			
REVISIONS		PROJECT DESIGNATION	YEAR	SHEET NO.
NO.	DATE	DESCRIPTION	68792	2003
			5	15



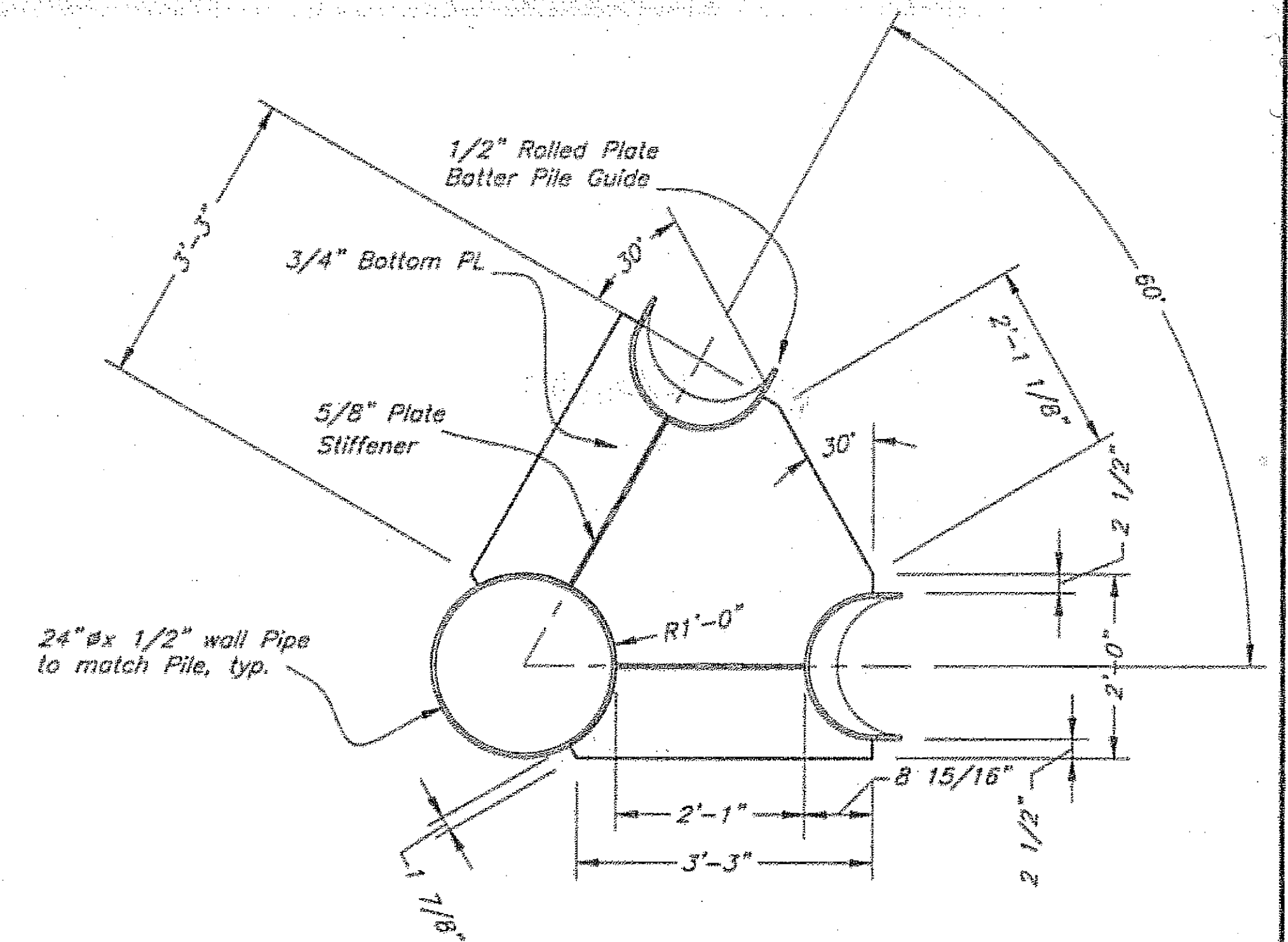
**Elevation
Dolphin**



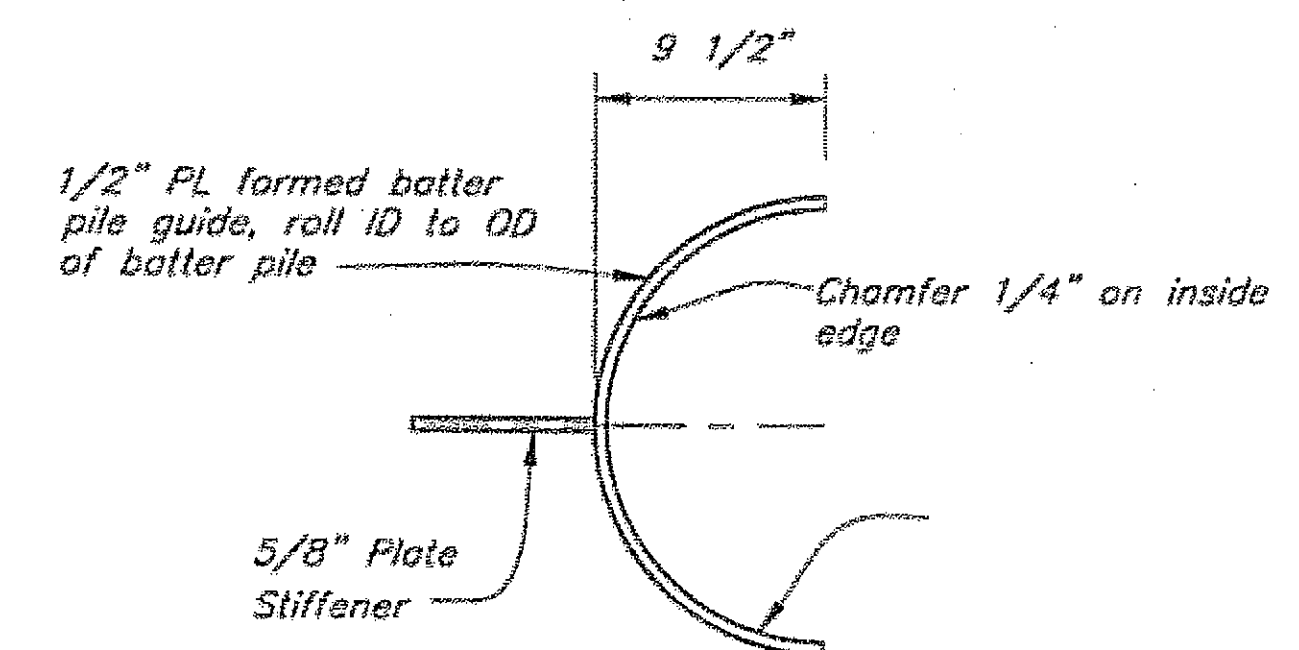
Cap Plan



**Detail
Cap Stiffener**



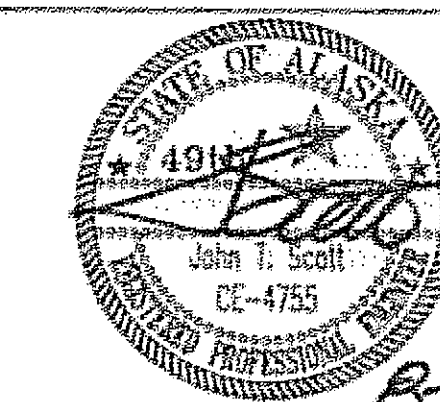
**Section
Bottom Plate** A
6



**Detail
Batter Pile Guide**

Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge, the project as constructed.
 Proj. Engr. *B. Nelson* Date *10-10-03*

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS



STATE OF ALASKA
 DEPARTMENT OF TRANSPORTATION
 & PUBLIC FACILITIES
 STATEWIDE DESIGN & ENGINEERING SERVICES DIVISION

**SITKA ALL-TIDE
 MOORING IMPROVEMENTS
 PROJECT NO. 68792**

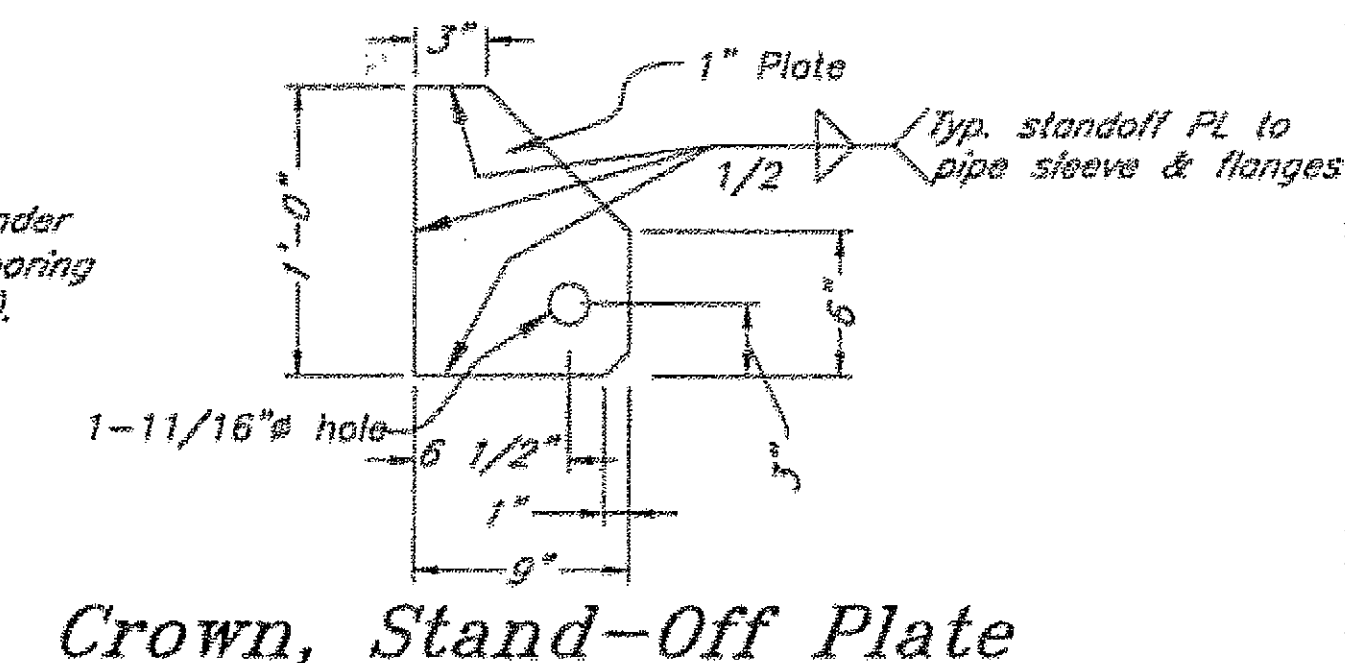
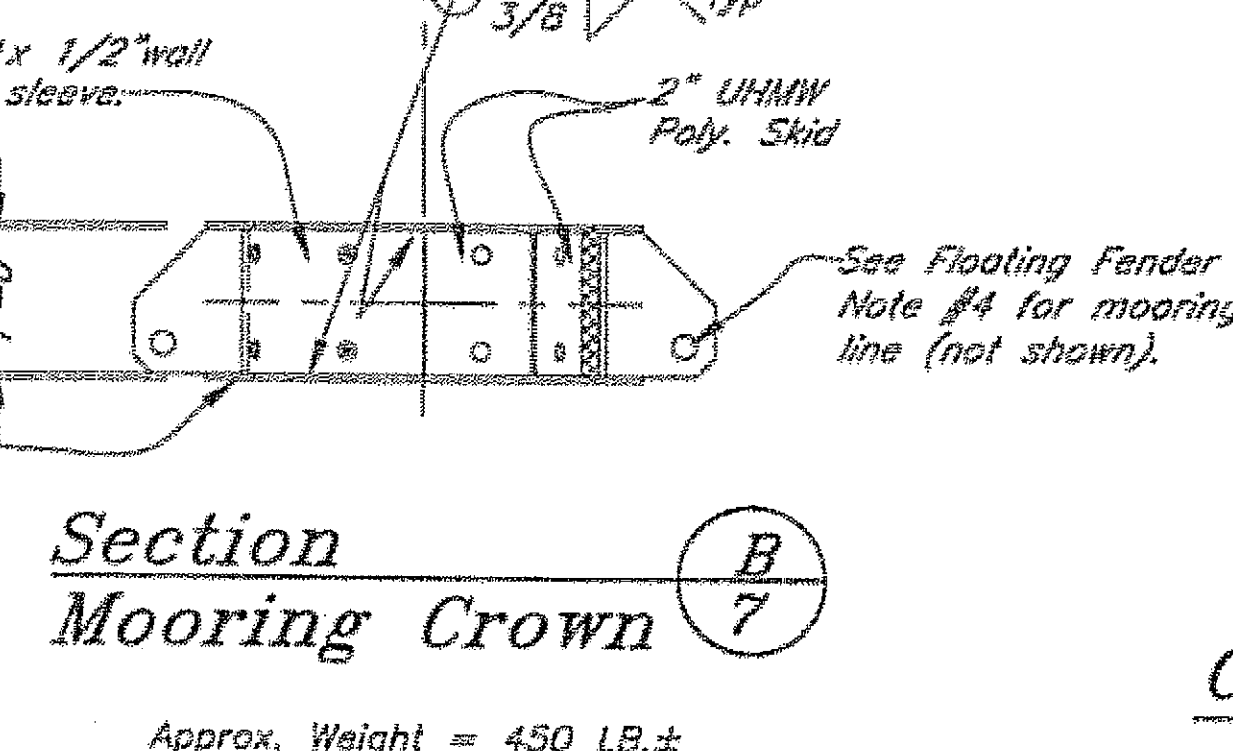
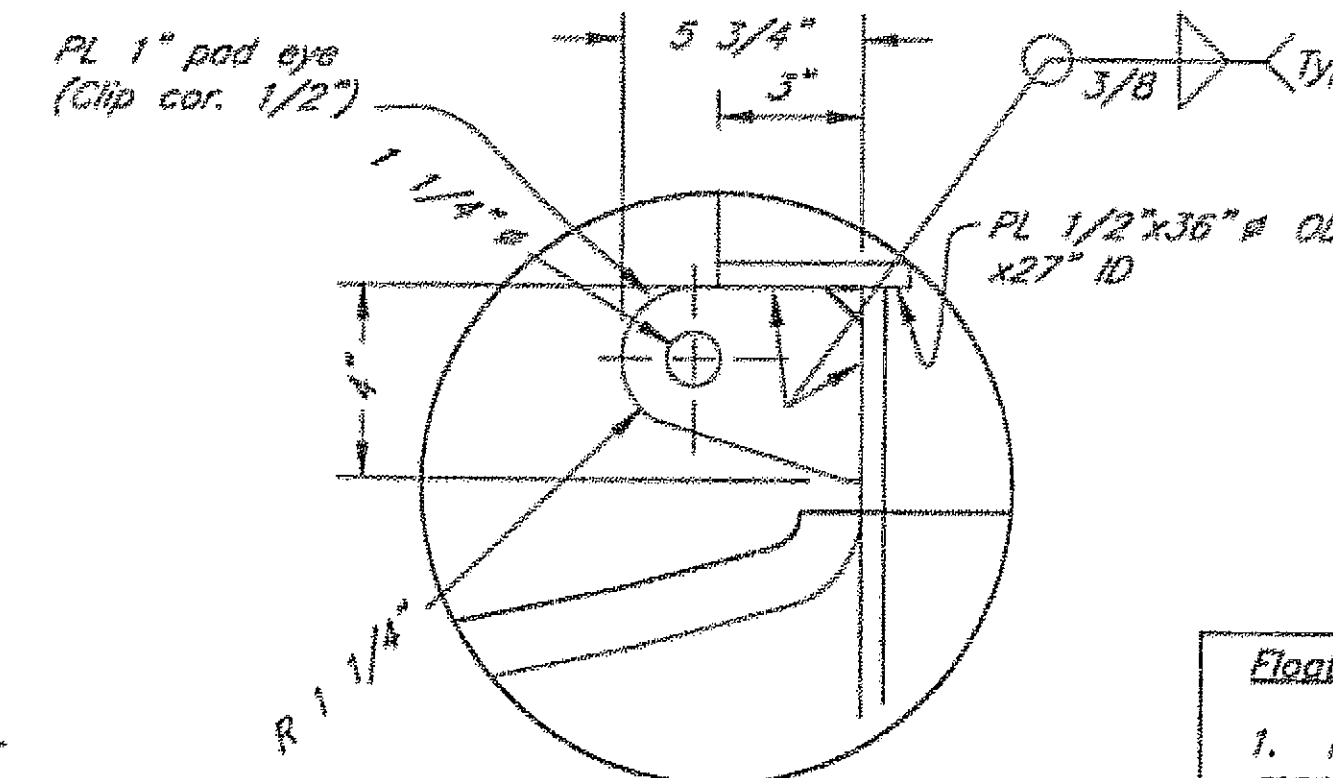
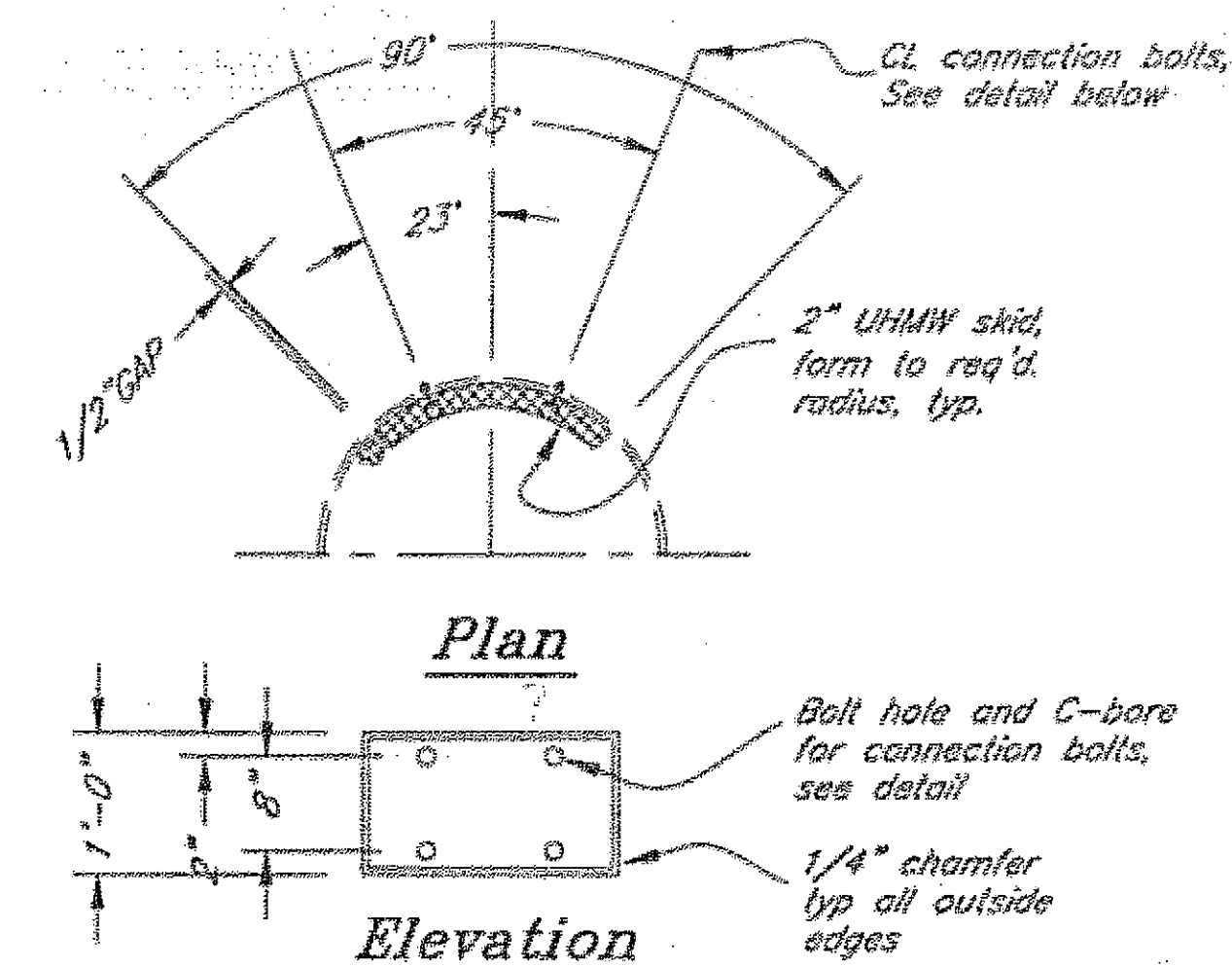
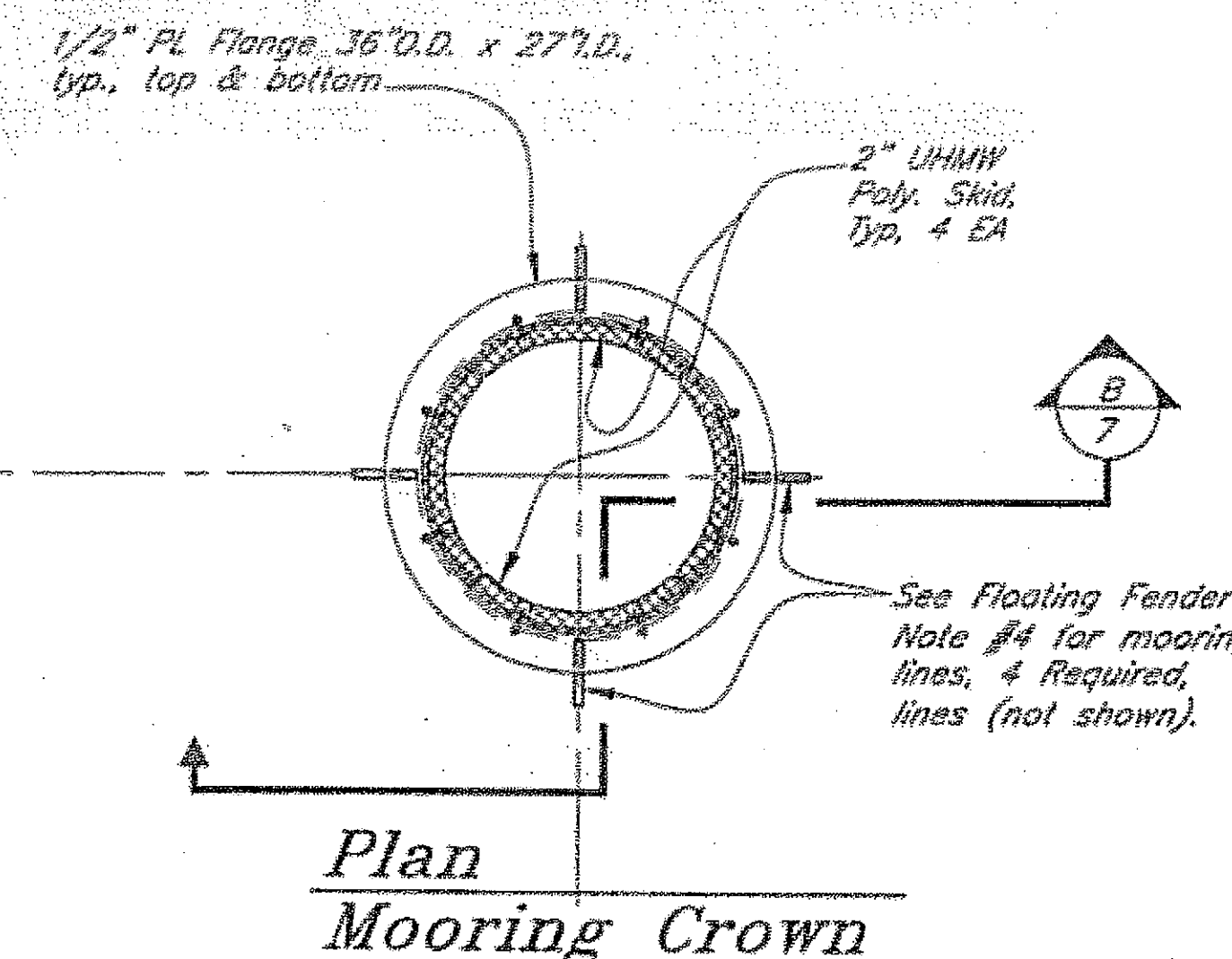
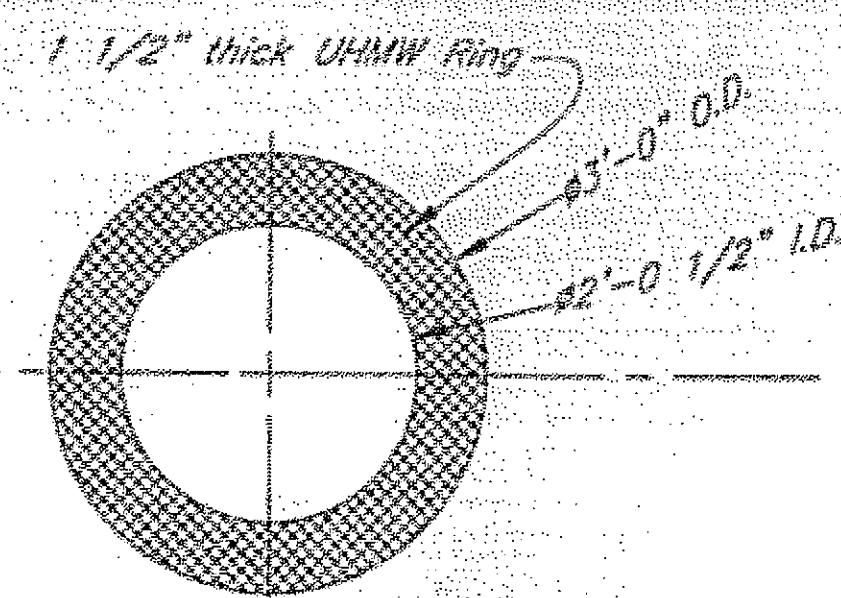
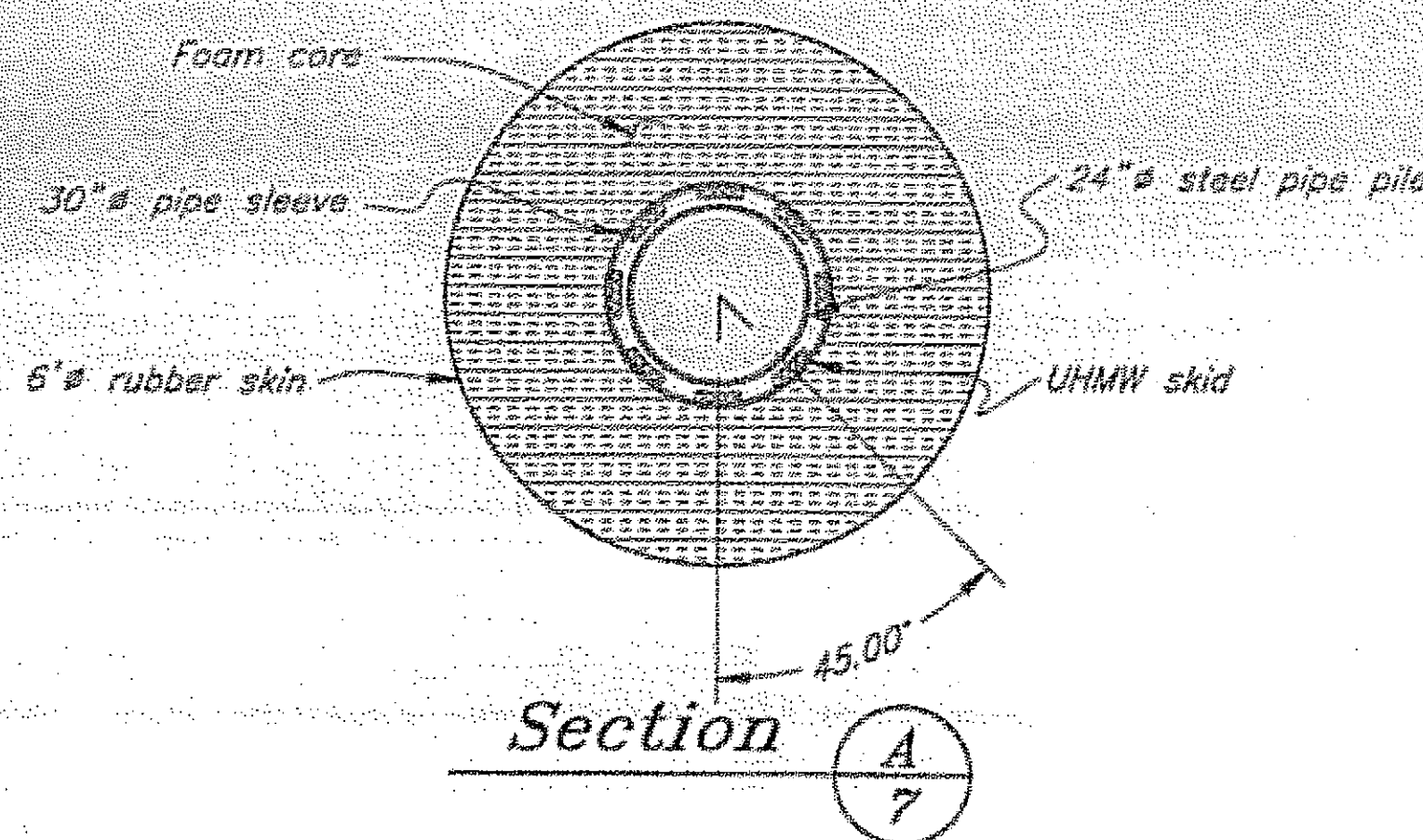
Mooring Structure W1

CHECKED BY: *J. Beedle*
 DRAWN BY: *B. Nelson, T. Mores*

PATH: *Q:\SW\67921\MI\Plan\set\Ph1 & COE\006 - Mooring Struct W1.dwg*
 PLOT: PSPACE 1=1

TAB: DETAIL Mon, 18/Aug/03 11:19AM

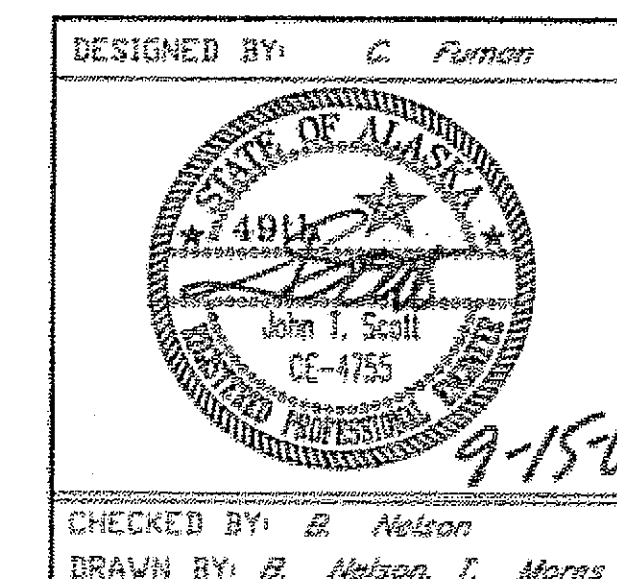
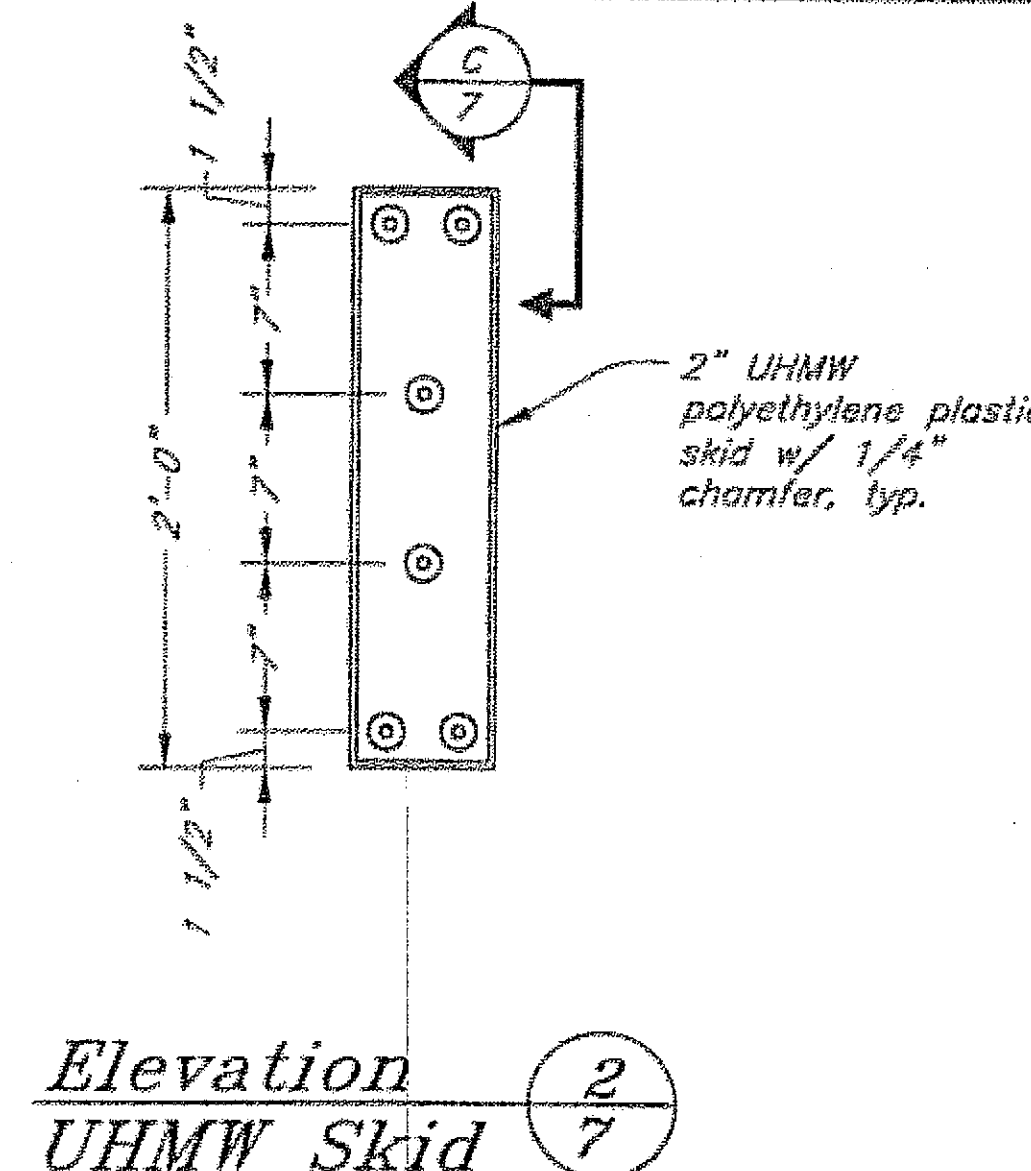
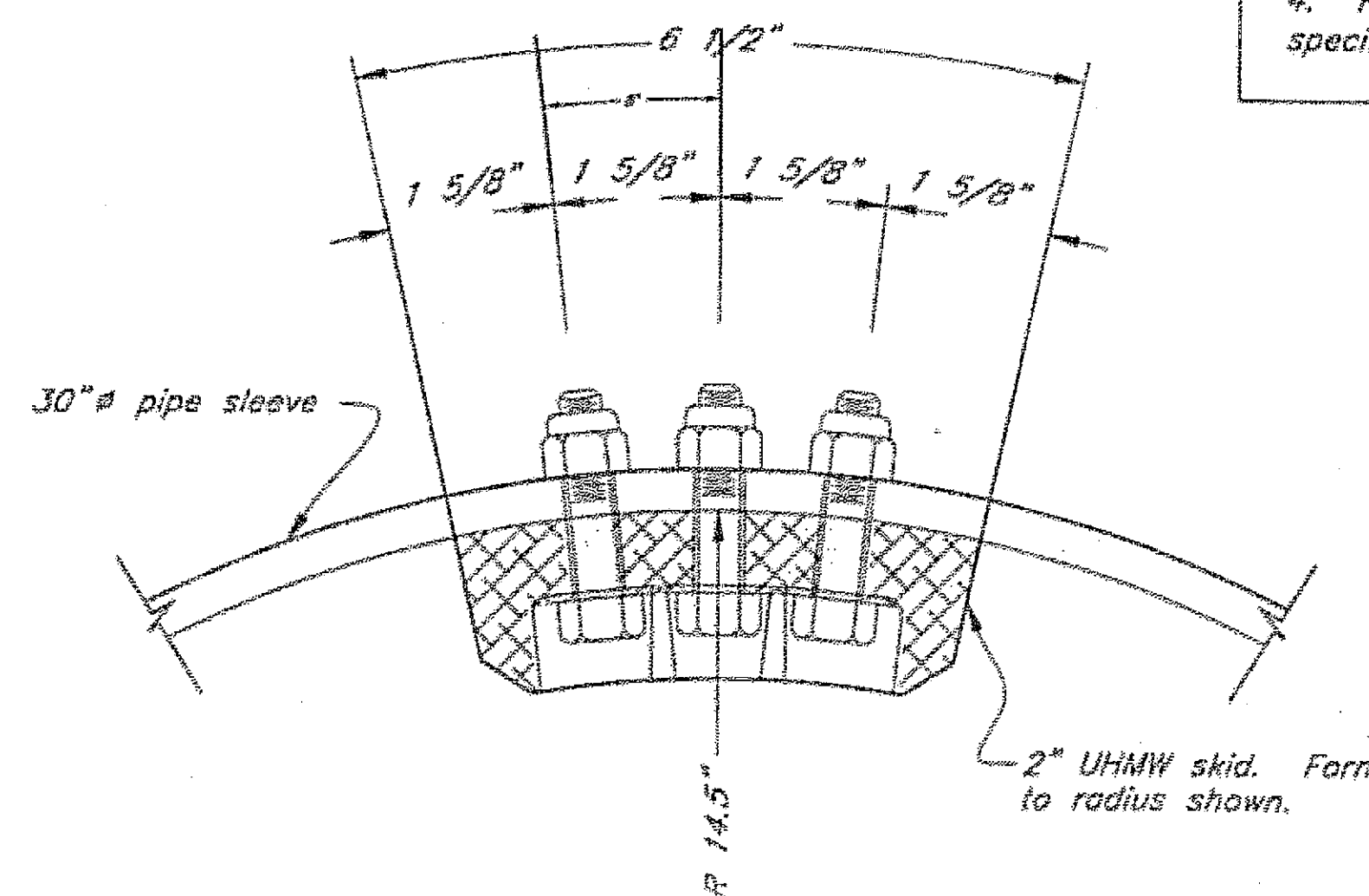
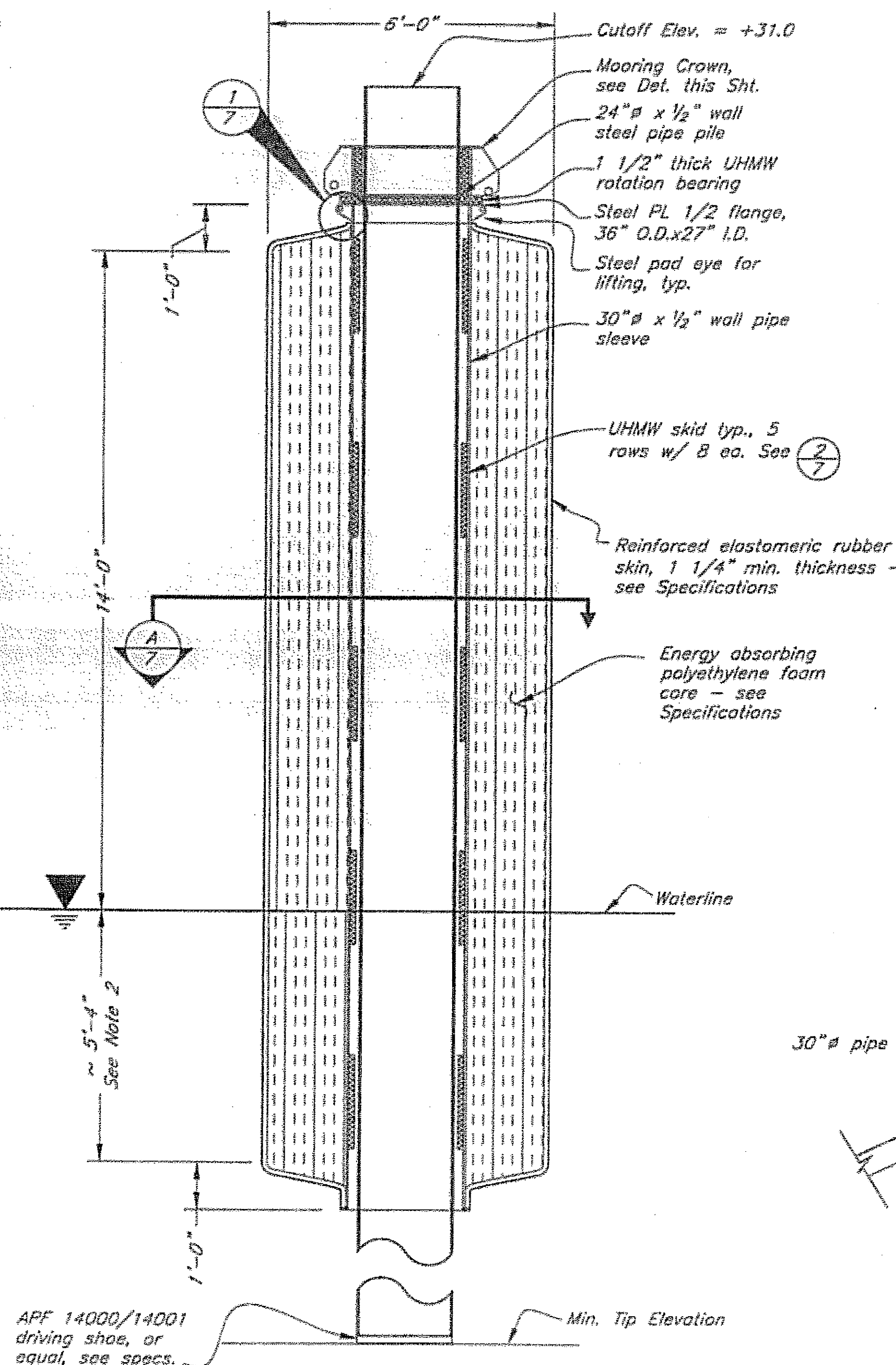
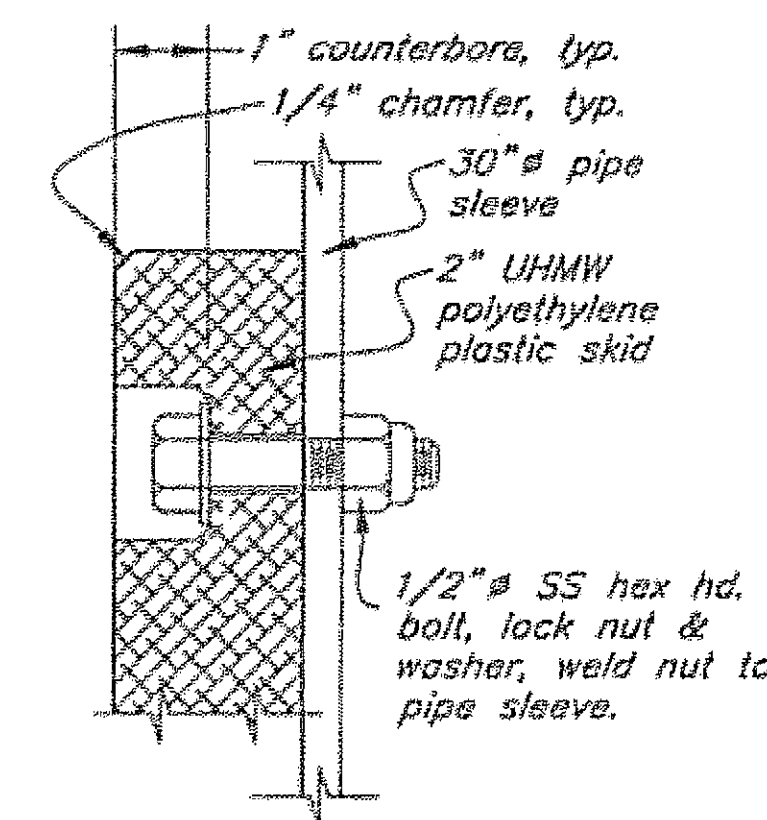
REVISIONS			PROJECT DESIGNATION		YEAR	SHEET NO.	TOTAL SHEETS
NO.	DATE	DESCRIPTION					
			68792		2003	6	15



Floating Fender Notes

1. 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.
2. 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.
3. Unless otherwise noted, all steel materials incorporated into the fender unit shall be hot-dip galvanized after fabrication.
4. Four mooring lines from mooring crown not shown, see specifications for line length, end treatments and hardware (shackles).

Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge, the project as constructed.
Proj. Engr. *[Signature]* Date: 7/10/06



DESIGNED BY: C. Furman		STATE OF ALASKA DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES STATEWIDE DESIGN & ENGINEERING SERVICES DIVISION			
CHECKED BY: B. Nelson		SITKA ALL-TIDE MOORING IMPROVEMENTS PROJECT NO. 68792			
DRAWN BY: B. Nelson, T. Mores		W1 Floating Fender Details			
PATH: Q:\SP\6792\1\4\1\Planned\PH1 & COE\002-W1 Floating Fender details.dwg		9-15-03			
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REVISIONS		PROJECT DESIGNATION		SHEET NO.	TOTAL SHEETS
NO.	DATE	DESCRIPTION			
		68792		2003	7
					15

Detail
Cap Stiffener

[illegible]

Section
Bottom Plate

CL pile & strut
5/8" PL stiffener
30" x 1/2" wall pipe to match pile, typ.
5/8" PL stiffener
3/4" bottom PL
Face of stern berth tender line
55.0°
5'-2"

Detail 120.0°
Batter Pile Guide
1/2" rolled PL batter pile guide
R 1'-0"
1/2" inter stiffener @ 3'

Plan
Cap

3/4" Top PL
1/2" rolled PL batter pile guide
1'-6"
4 3/16"
1'-10"
55.0°
5'-2"

3/4" top PL
 1/4" pile cover PL
 Typ 1/4"
 Elev. = +37.0'
 Typ 3/8"
 Typ 3/8"
 Typ 3/8"
 Typ 3/8"
 Typ 3/8"
 1/2" Typ
 5"
 Mooring bit slide, slot & stiffeners
 30" ϕ x 1/2" wall pipe to match pile, typ.
 8"
 2'-0"
 2'-8" ring stiffeners
 2'-8" c-c
 2'-8" intermediate stiffeners
 5'-0" etc.
 6'-8"
 Elev. = +31.0'
 1/2" M CP, typ.
 Backing/alignment PL, fabrication & shape are contractor's option
 3/4" bottom PL
 5/8" PL stiffener
 1/2" PL batter pile guide L = 6'-0", typ.

Side View
Cap

Technical drawing of a Typical Section of a 30-inch diameter manhole. The drawing shows a cross-section of the manhole structure, including the wall, floor, and various components like slides, flange plates, and tie bars. Dimensions are provided for various parts, such as the wall thickness (1/4 inch), the floor thickness (5 1/4 inches), and the distance between slides (1 inch). The drawing is labeled 'Typical Section' and includes a note '30 inch diameter manhole'.

Labels and dimensions include:

- 1/4" thick PL
- rior ring
- eners
- 2" O.C.
- 3"
- 6 3/8"
- RT-3"
- B 13/16" 5 1/4"
- 30x1/2 wall pipe split for bit slide
- 1" square tie bar
- Split TS 6x8x3/8
- 1/2" web PL
- 1/2x8 flange PL
- symmetrical about center line
- 3/4x3 UHMW slides
- 1/2x3 UHMW slides,
- 1" clear between slides
- 1/4" TYP
- 1 3/4x3 UHMW slides
- 3/4x8 flange PL

Typical Section

Technical drawing of a circular structure, likely a wellhead or similar industrial component. The drawing shows a cross-section of the structure with various dimensions and labels.

Dimensions and Labels:

- $30 \times 1/2$ wall pipe split for bit slide
- $1/2"$ PL intermediate stiffeners @ TS 8x6 channels, $32"$ O.C., at $16"$ from CL ring stiffeners, typ.
- $3/8"$ (TYP) Split TS 6x8x3/8 symmetrical about center line
- $1/2 \times 3$ UHMW slides, 48" min. length strips, drill $7/16"$ $\varnothing$ holes & c-bore $1 \ 3/8"$ $\varnothing \times 1/4"$ deep for $3/8"$ $\varnothing$ SS elevator bolts & lock nuts, 8" O.C. (4" to CL stiffeners), 1" clear between slides when secured to TS 6x8 channels
- $R1-5'5"$
- $R1-2 \ 1/2"$
- $2'10"$ TS
- $1"$
- $10 \ 1/8"$
- $2"$
- $5 \ 1/4"$

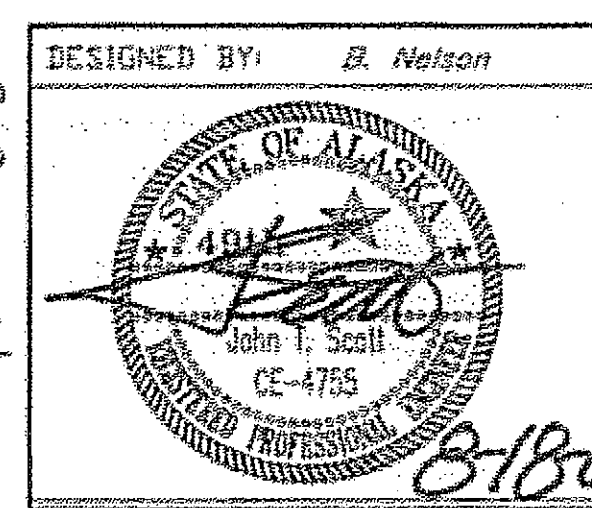
Section (at bottom of slot)
Split Wall Pipe & TS 6x8 Channels

Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge, the project as constructed. 10-10

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
& PUBLIC FACILITIES
BID DESIGN & ENGINEERING SERVICES DIVISION

SITKA ALL-TIDE
MOORING IMPROVEMENTS
PROJECT NO. 68792

Mooring Dolphin E1 Details



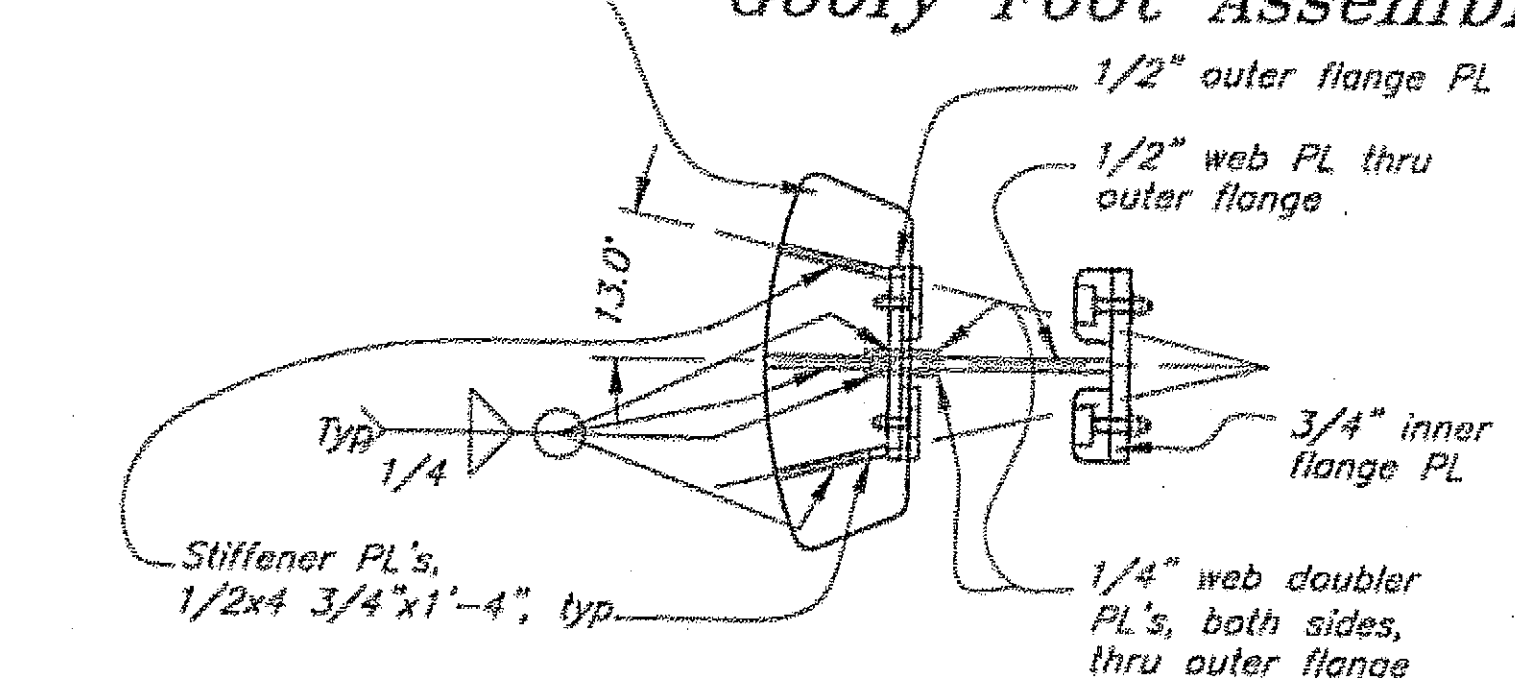
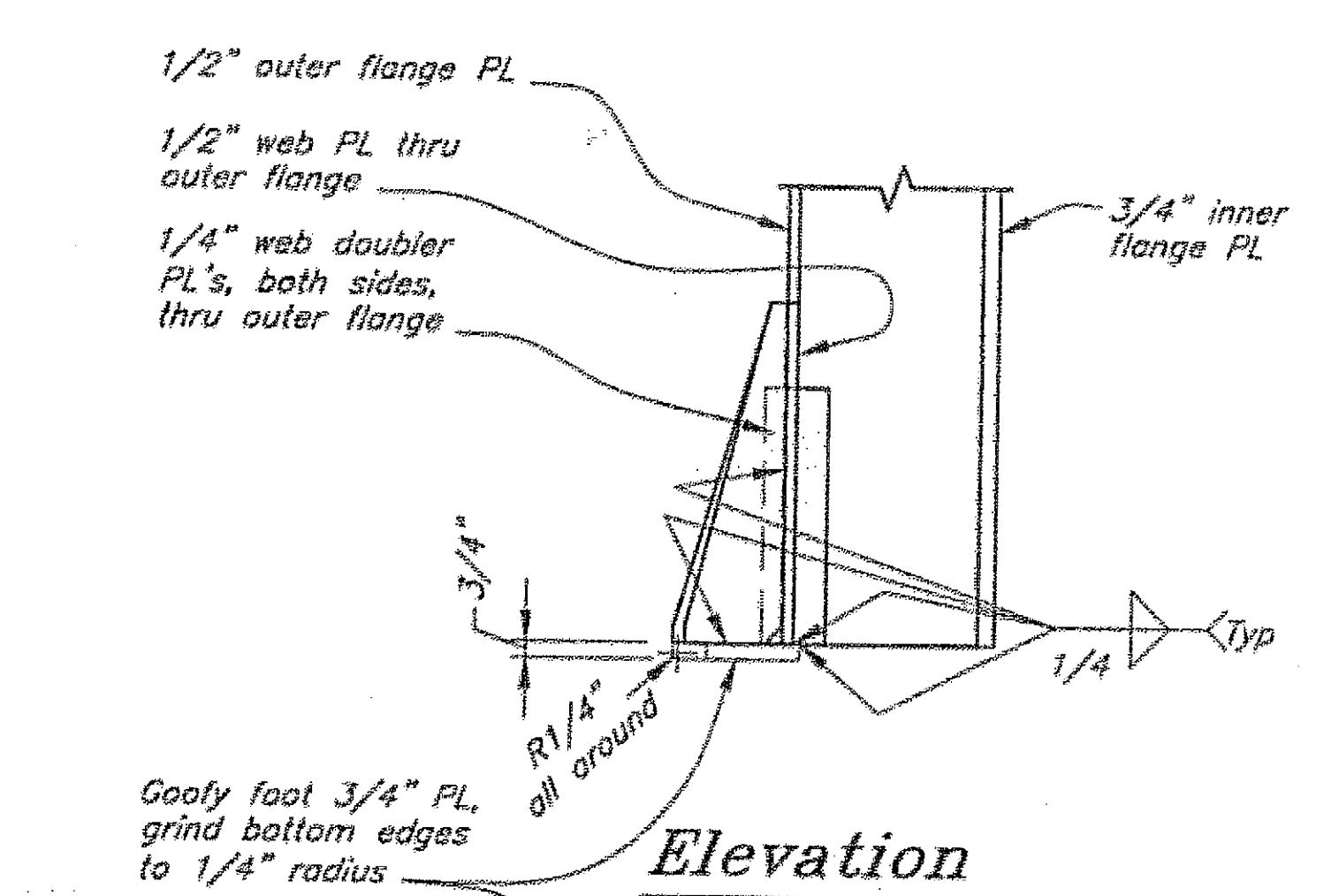
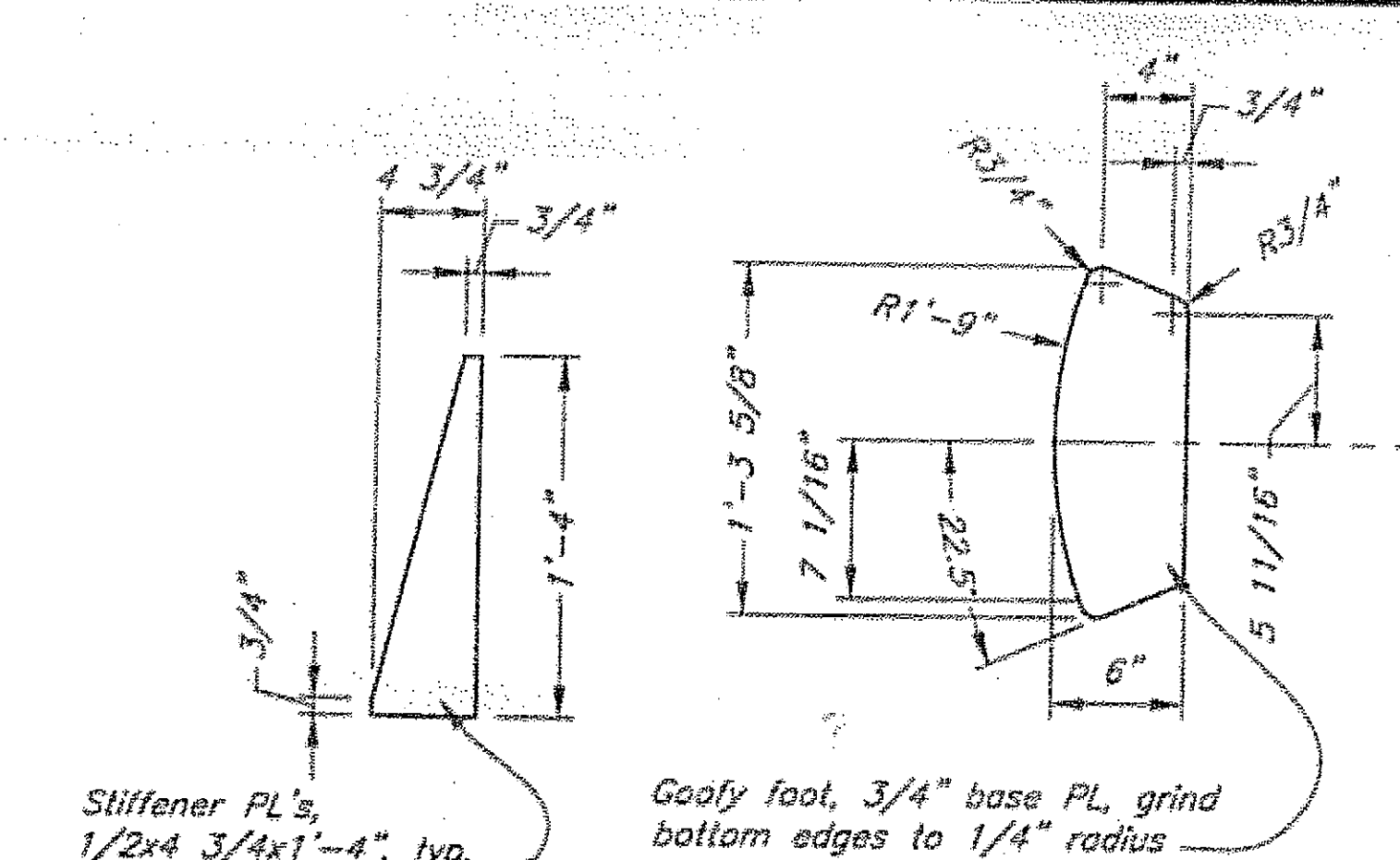
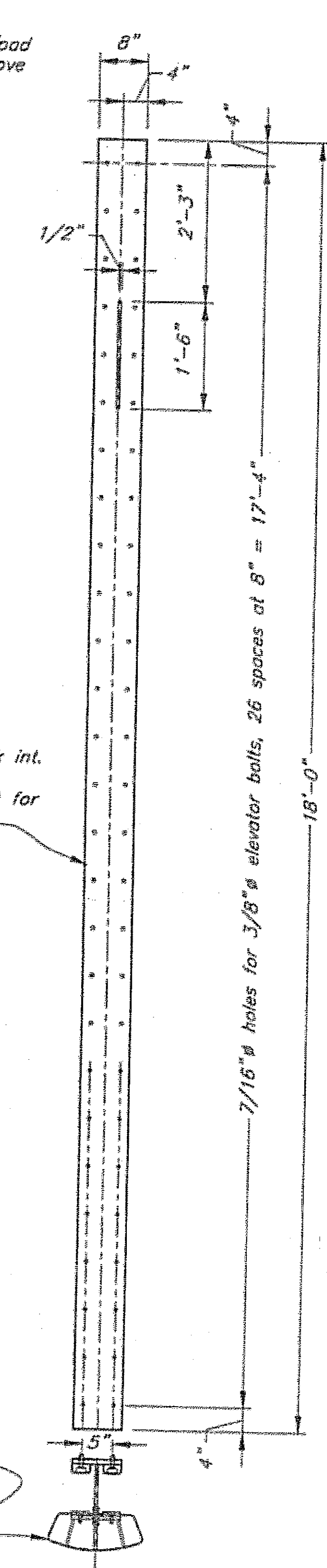
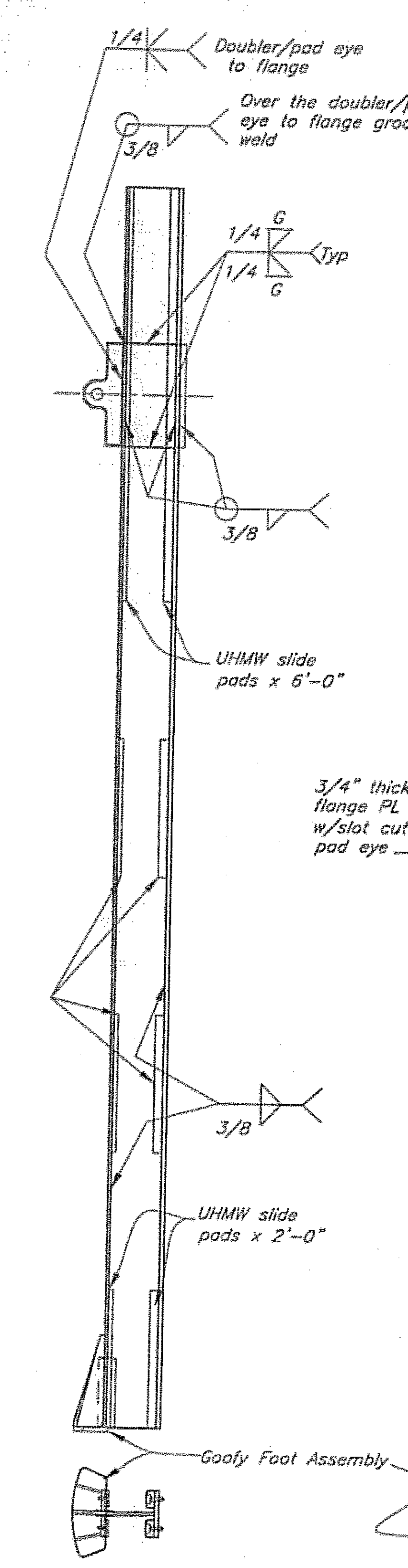
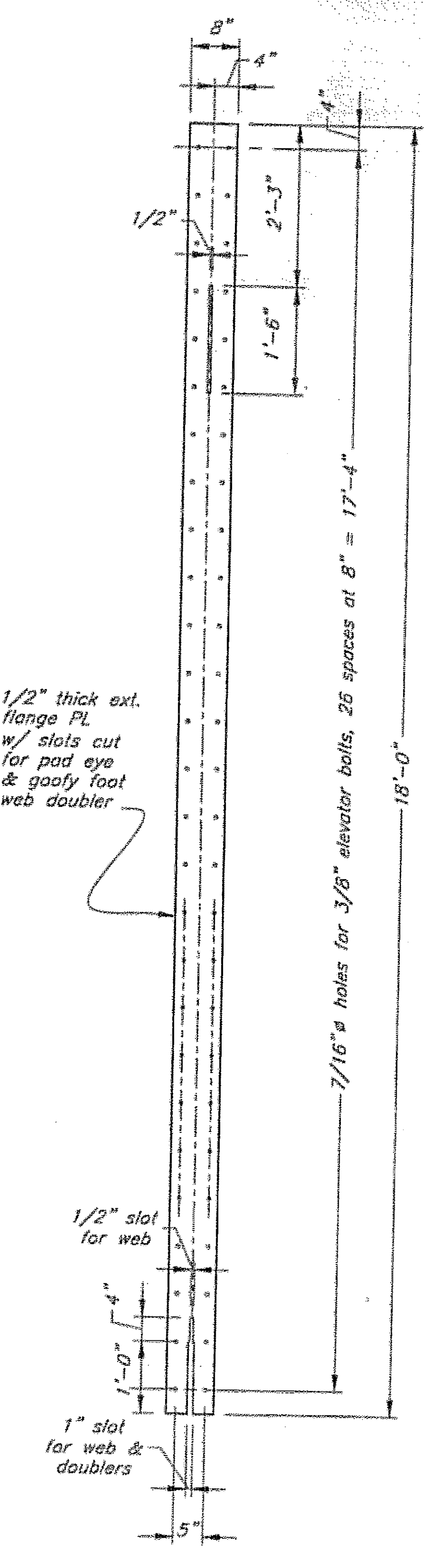
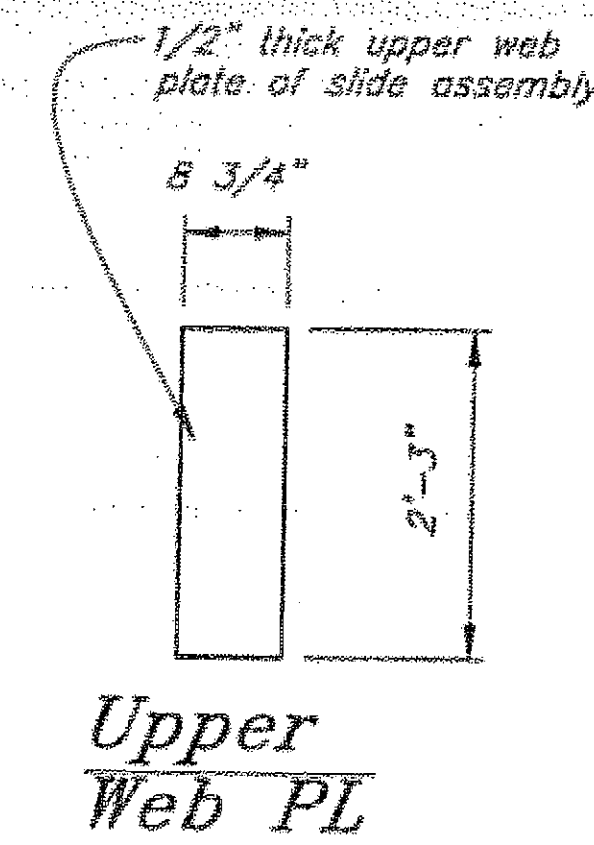
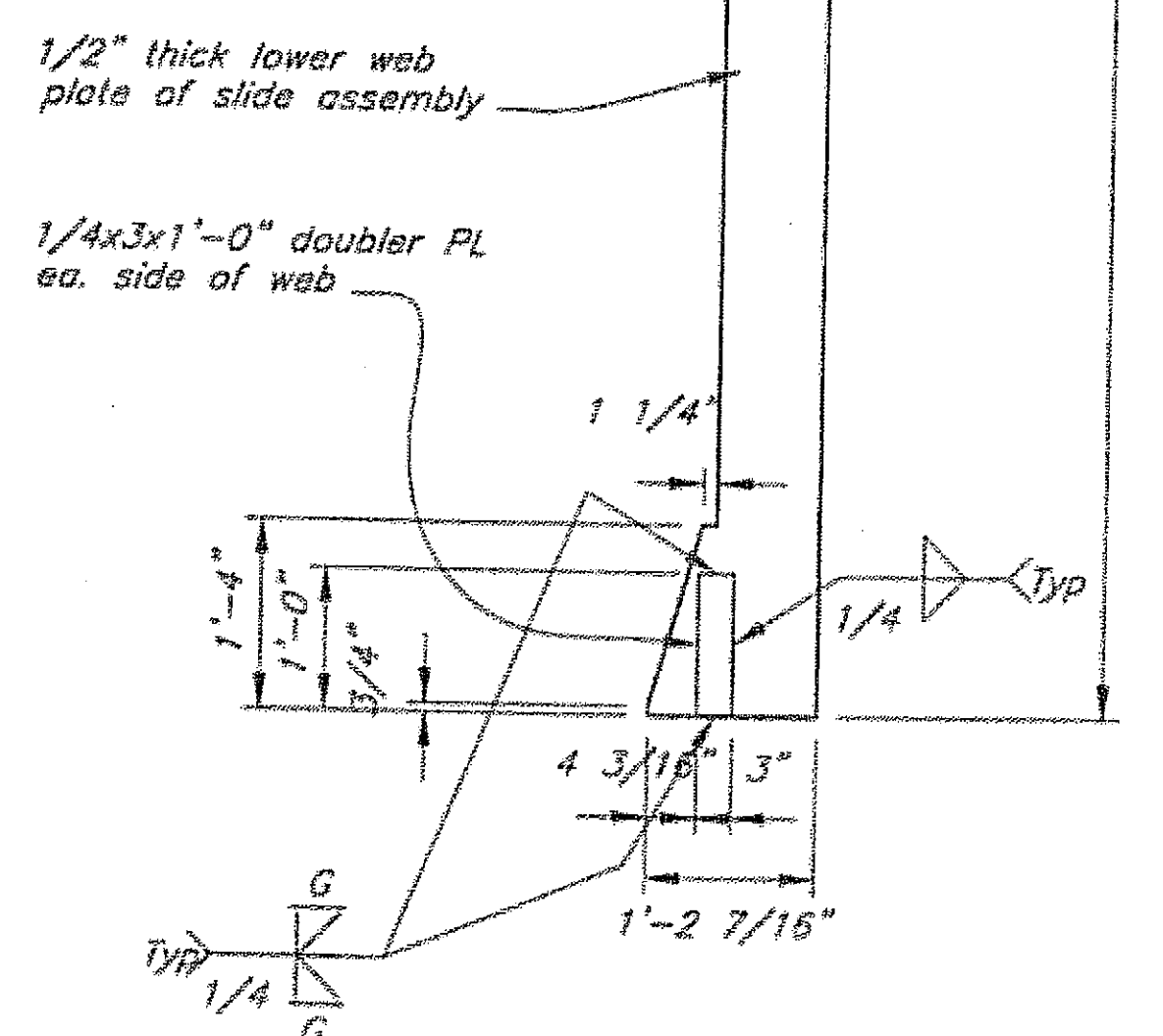
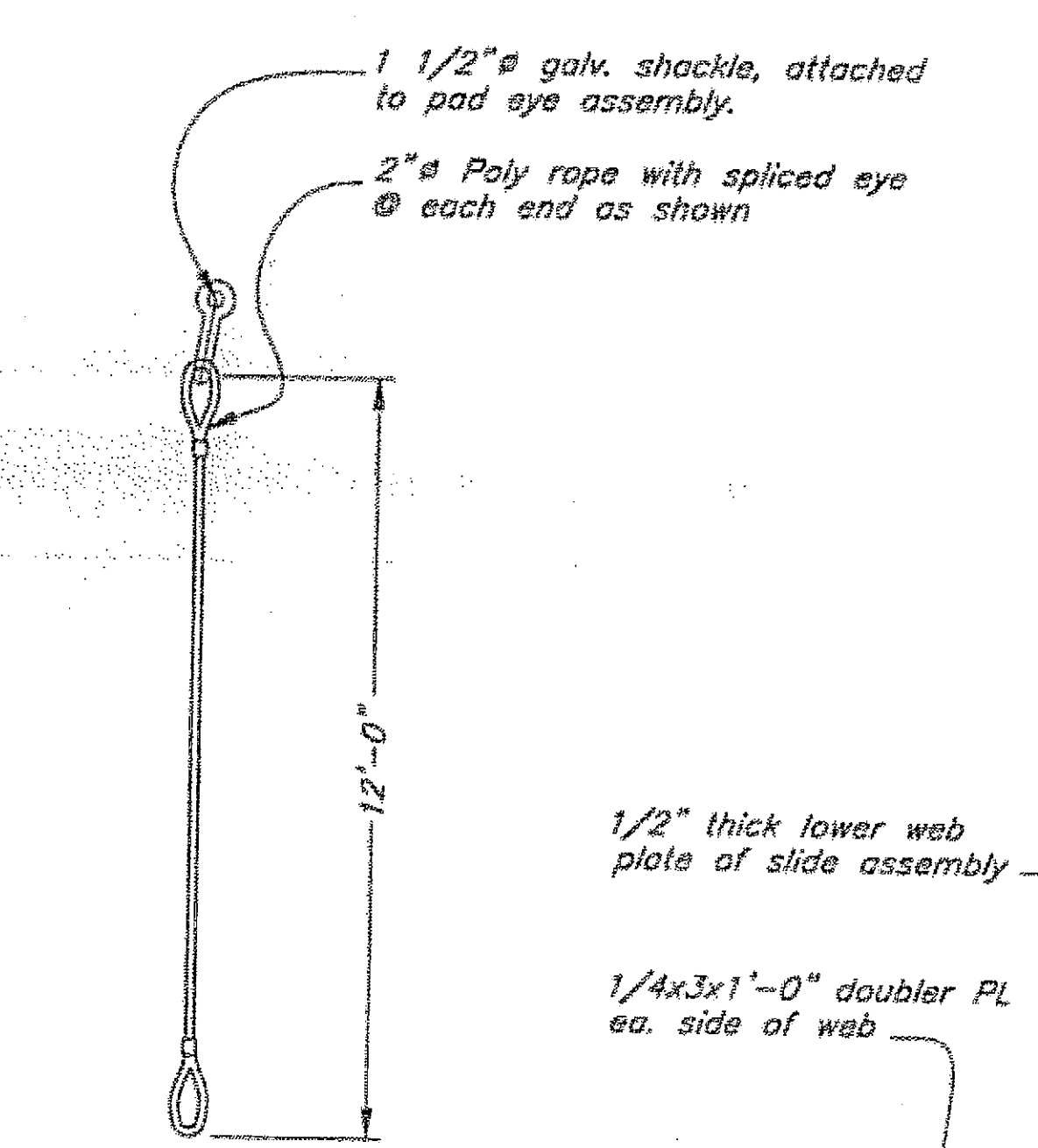
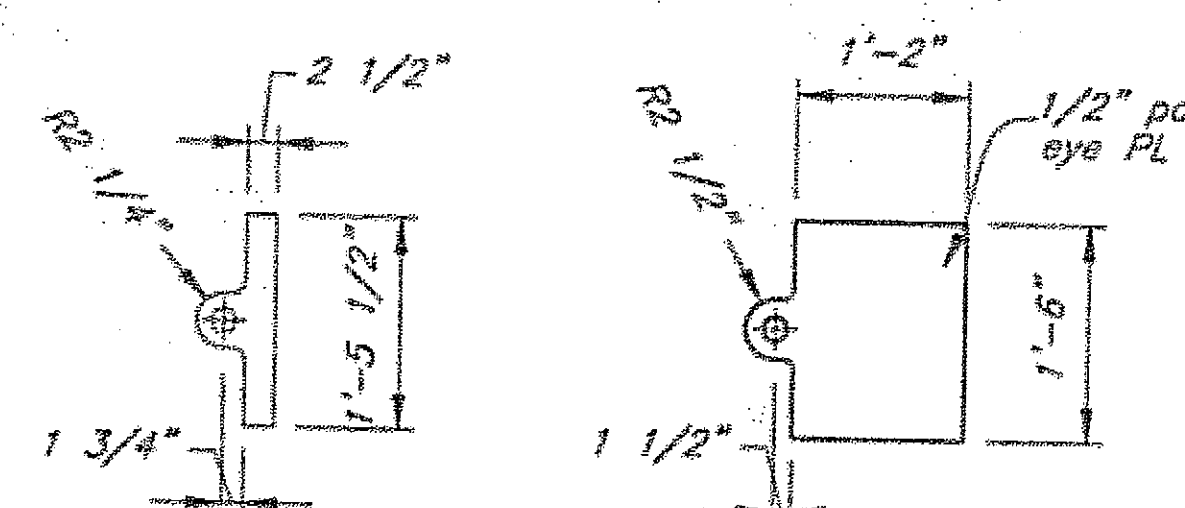
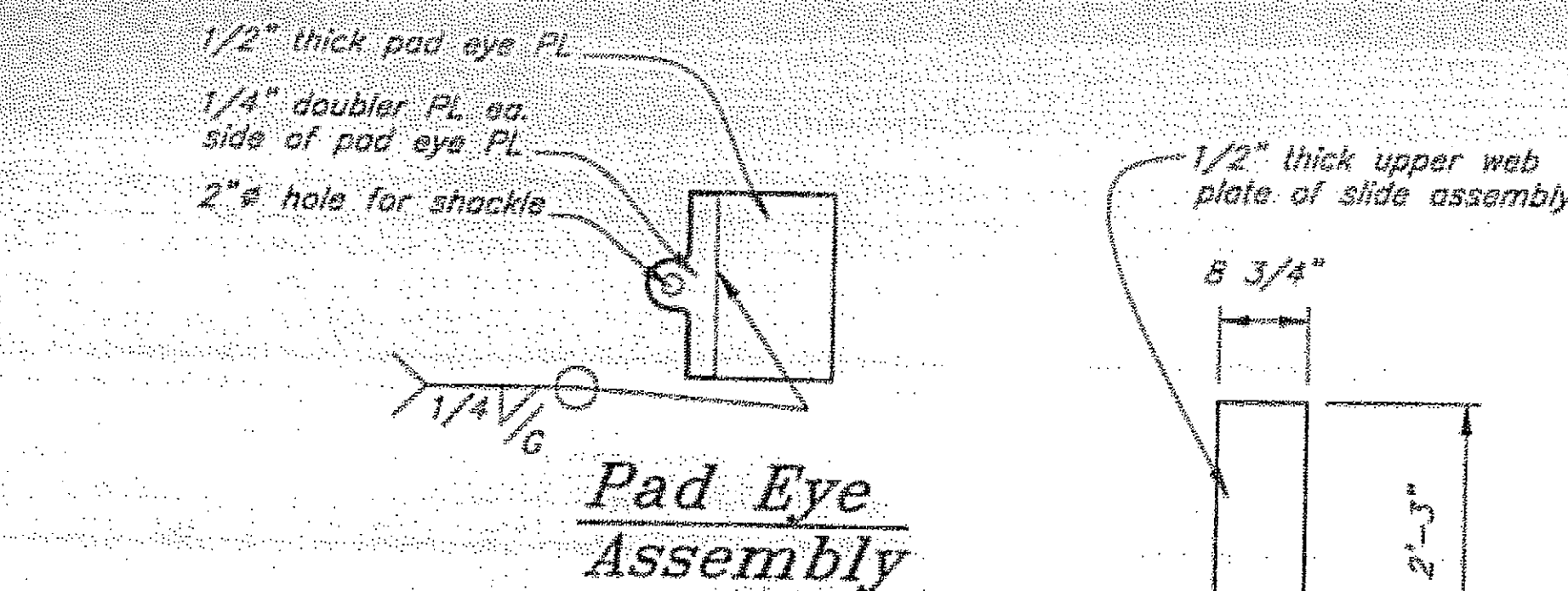
CHECKED BY: J. Seadle
DRAWN BY: E. Nelson

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SUBT: RESRACE 1.m1

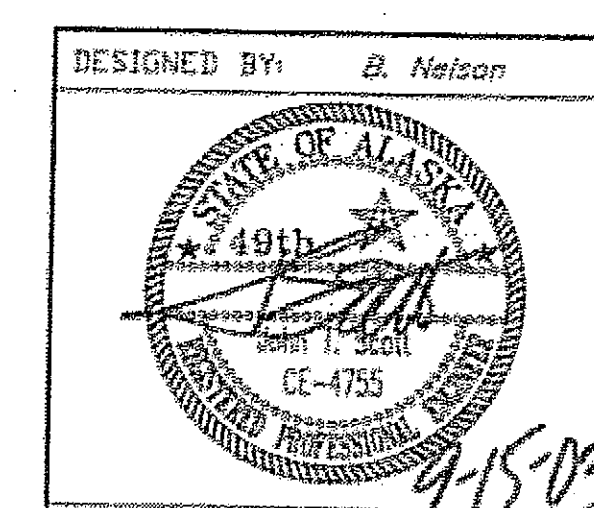
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PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
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68792	2003	8	15
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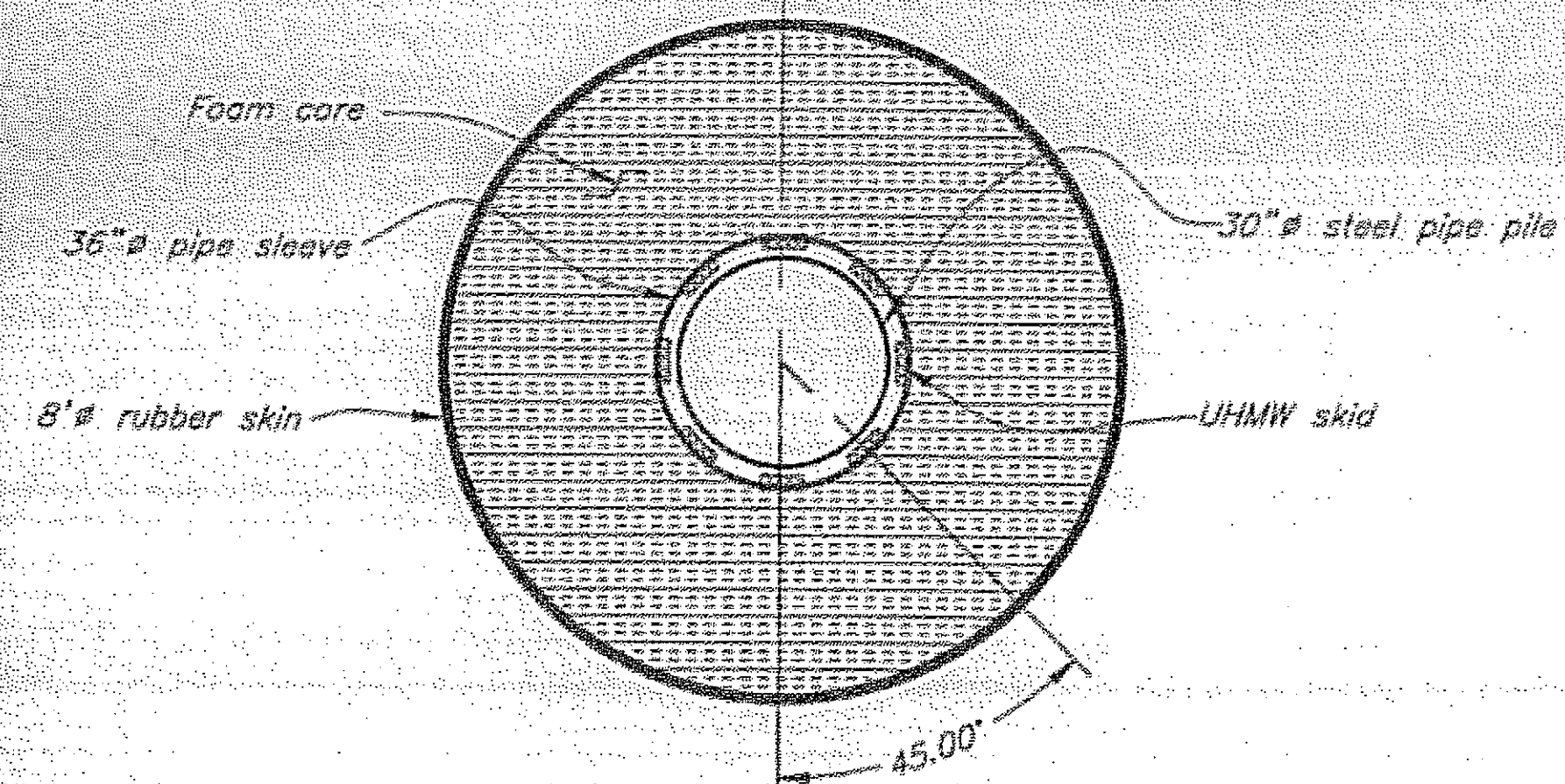


Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge, the project as constructed.
10-10-06
Proj. Engr. *M. Mores* Date

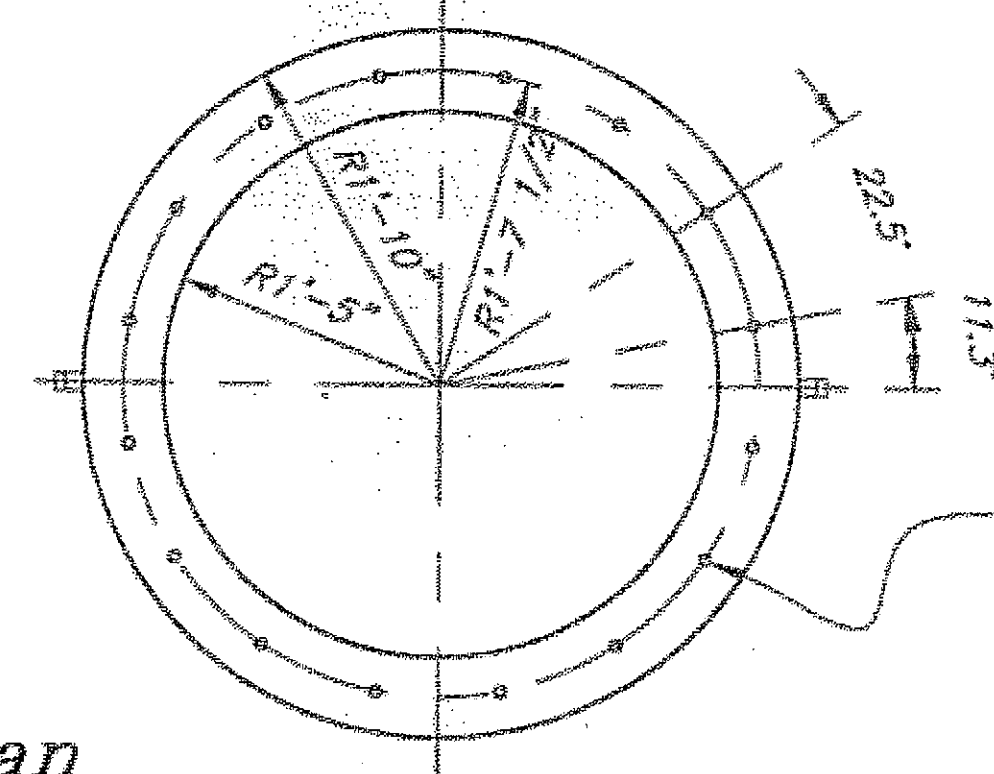


DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

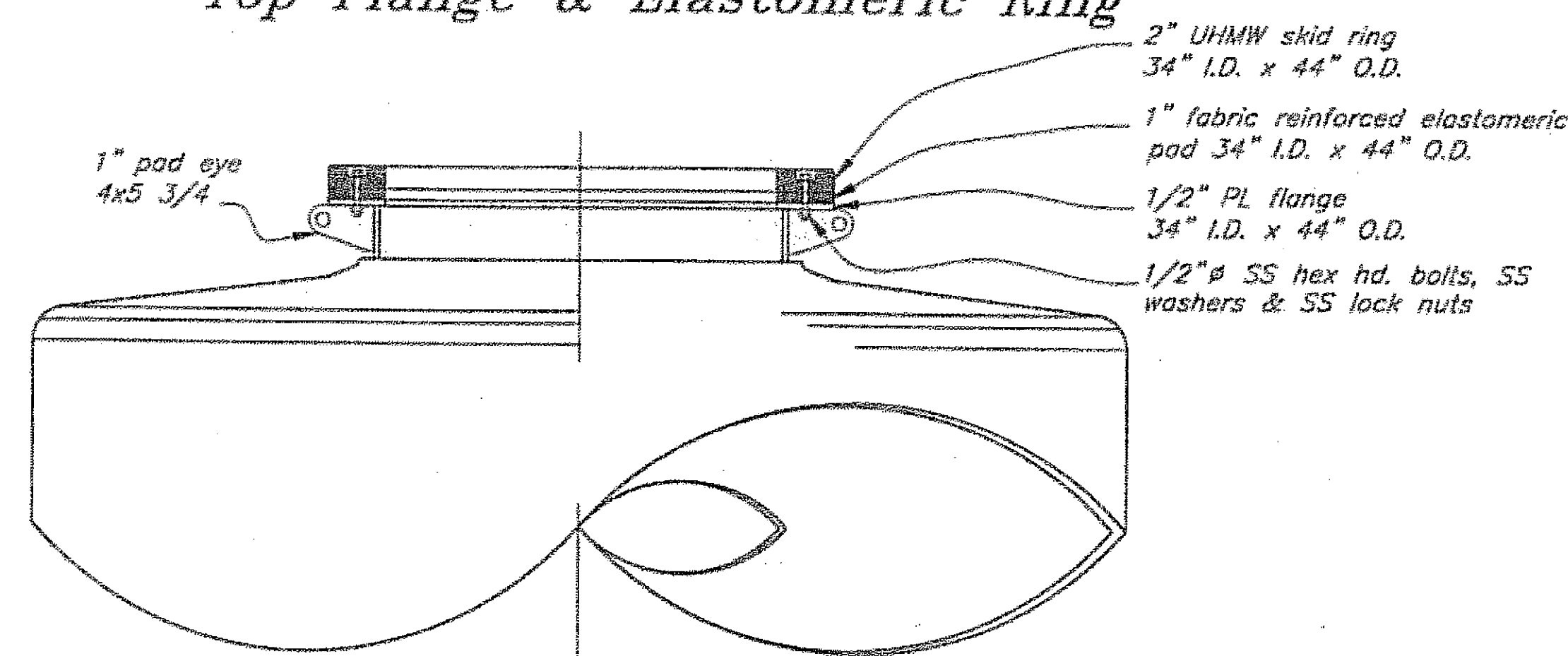
DESIGNED BY: B. Nelson	STATE OF ALASKA DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES STATEWIDE DESIGN & ENGINEERING SERVICES DIVISION			
CHECKED BY: J. Scott	SITKA ALL-TIDE MOORING IMPROVEMENTS PROJECT NO. 68792			
DRAWN BY: B. Nelson, T. Mores	Dolphin E1 Mooring Slide Assembly Details			
PATH: Q:\517\62921\AM\Plans\Set\PH1 & CGC\000-E1 Mooring Slide Assembly.dwg		PROJECT DESIGNATION		YEAR
PLOT: PSPACE 1=1		68792		2003
TAB: DETAIL		SHEET NO.		TOTAL SHEETS
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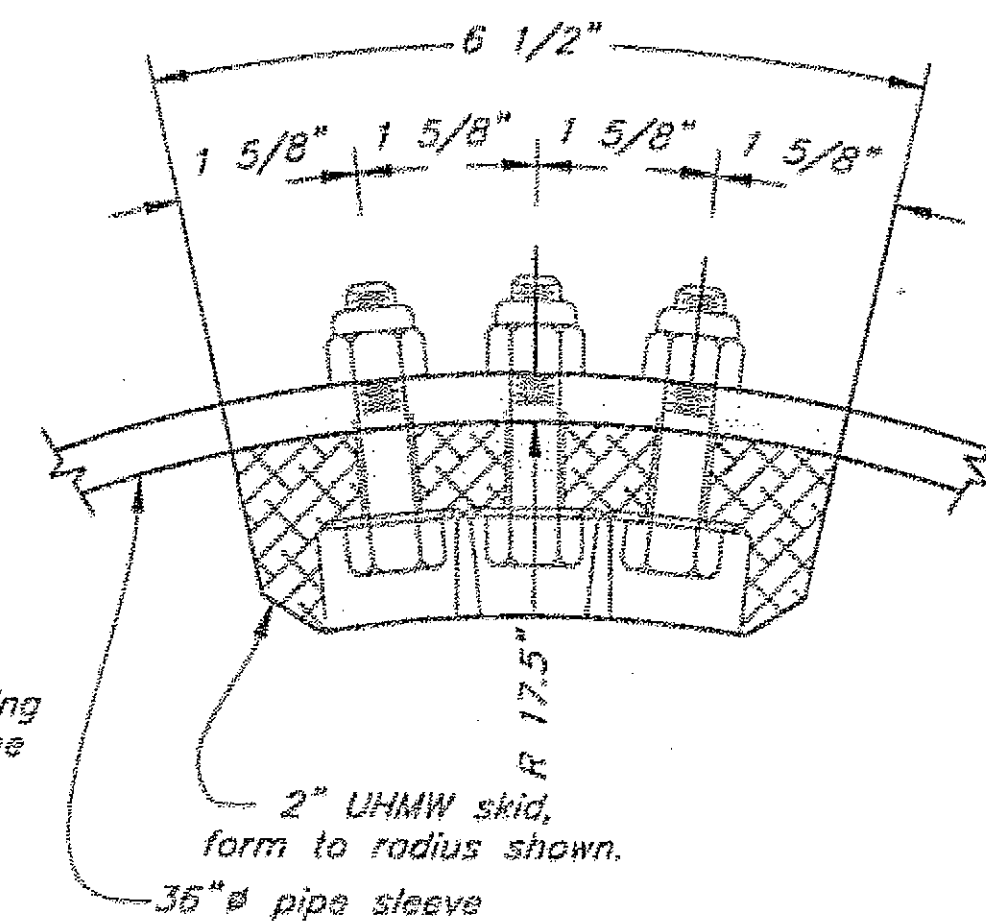
Plan
UHMW Polyethylene Skid Ring



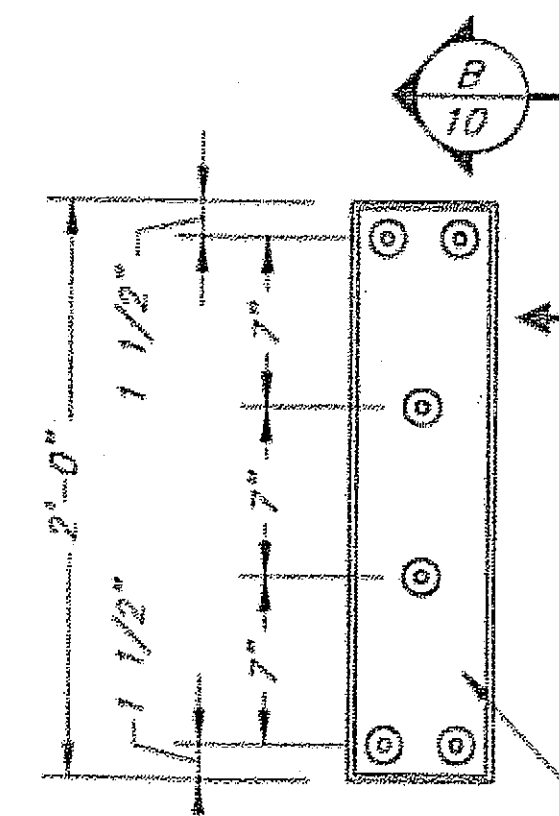
Plan
Top Flange & Elastomeric Ring



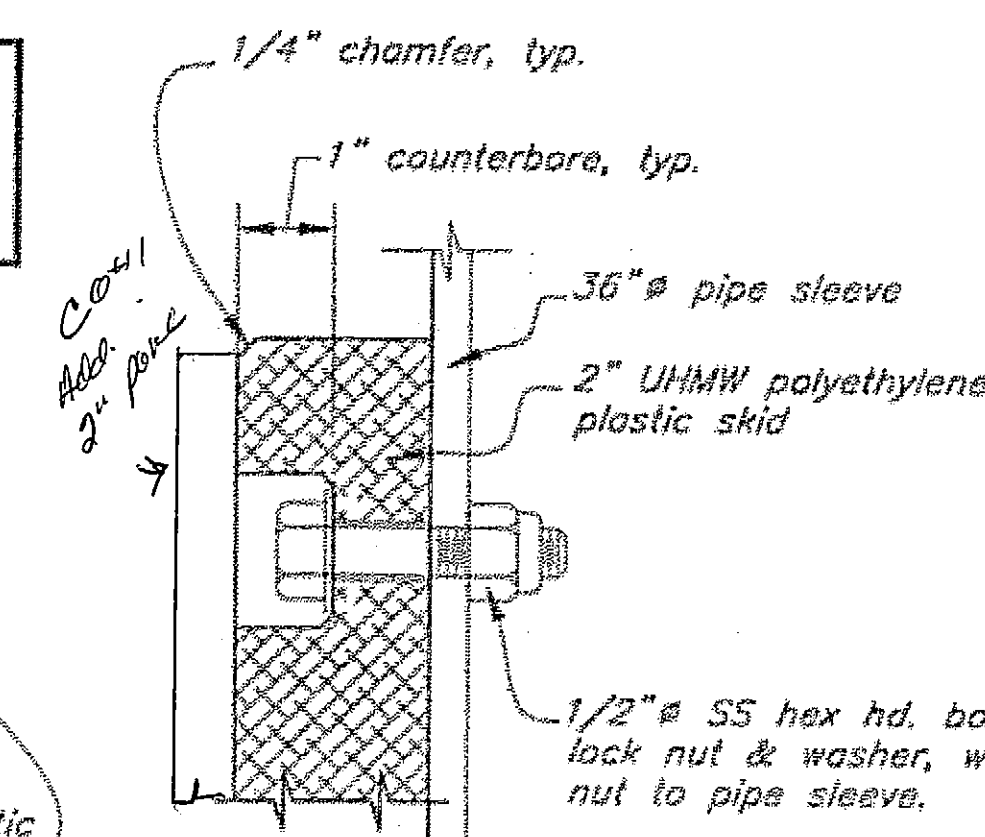
Details
Floating Fender, Top Flange



Plan
UHMW Skid



Elevation
UHMW Skid



Typical Section B-10
UHMW

Co #1

1/2" ϕ SS hex hd. bolts, SS washers & SS lock nuts

2" UHMW skid ring 34" I.D. x 44" O.D., drill 5/8" ϕ holes & 1 1/2" ϕ x 1" deep C-bore on 39" ϕ bolt circle as shown

1" fabric reinforced elastomeric pad, duro 70, 34" I.D. x 44" O.D., drill 5/8" ϕ bolt holes on 39" ϕ bolt circle

1/2" PL flange 34" I.D. x 44" O.D., weld to sleeve & pad eyes, drill 5/8" ϕ holes on 39" ϕ bolt circle

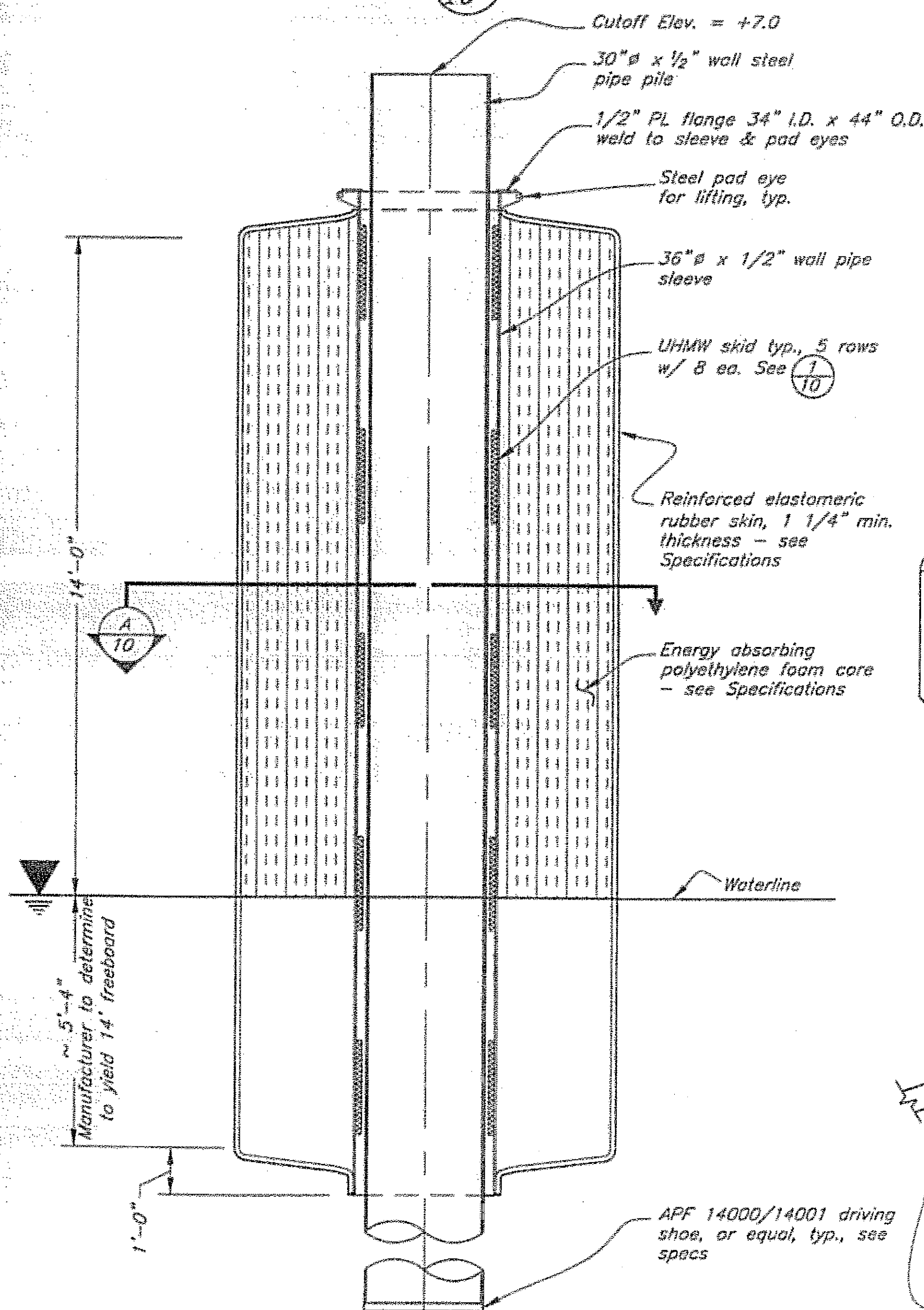
Clip corner 1/2"

1" PL pad eye 4x5 3/4

1/2" ϕ SS hex hd. bolts, SS washers & SS lock nuts

36" ϕ x 1/2" wall galv pipe sleeve

Details
Top Flange, Elastomeric & UHMW



Sectional Elevation E1

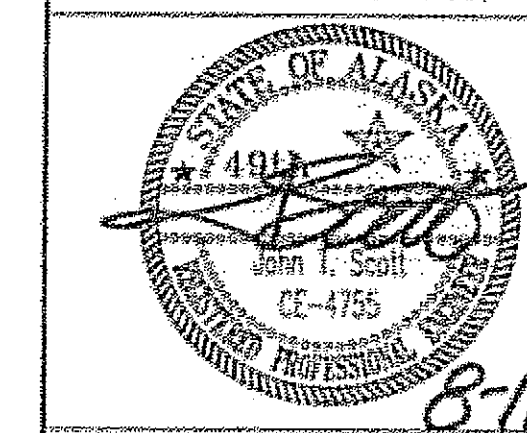
DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
& PUBLIC FACILITIES
STATEWIDE DESIGN & ENGINEERING SERVICES DIVISION

SITKA ALL-TIDE
MOORING IMPROVEMENTS
PROJECT NO. 68792

Floating Fender
E1 Details

DESIGNED BY: B. Nelson



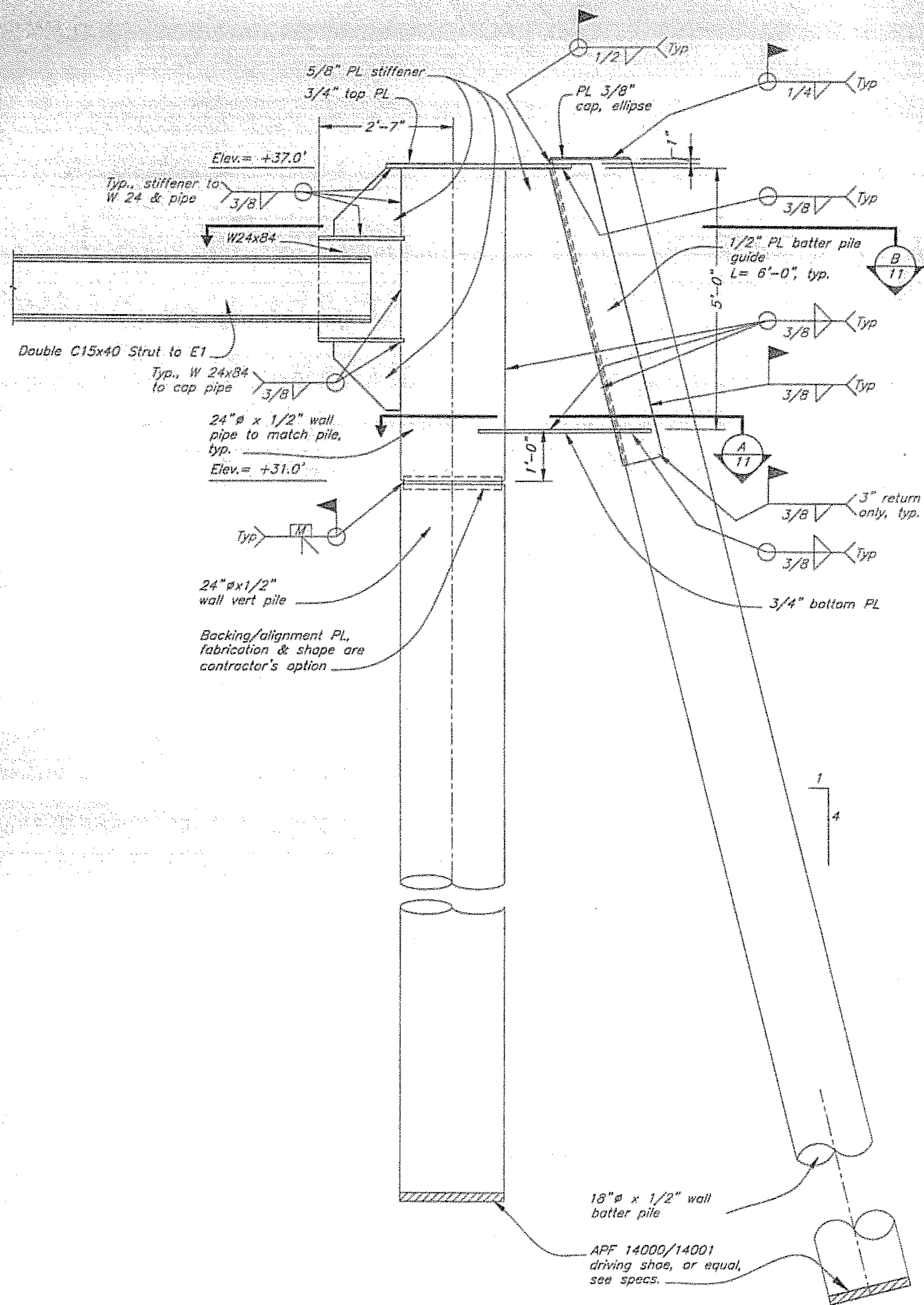
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DRAWN BY: B. Nelson, T. Morris

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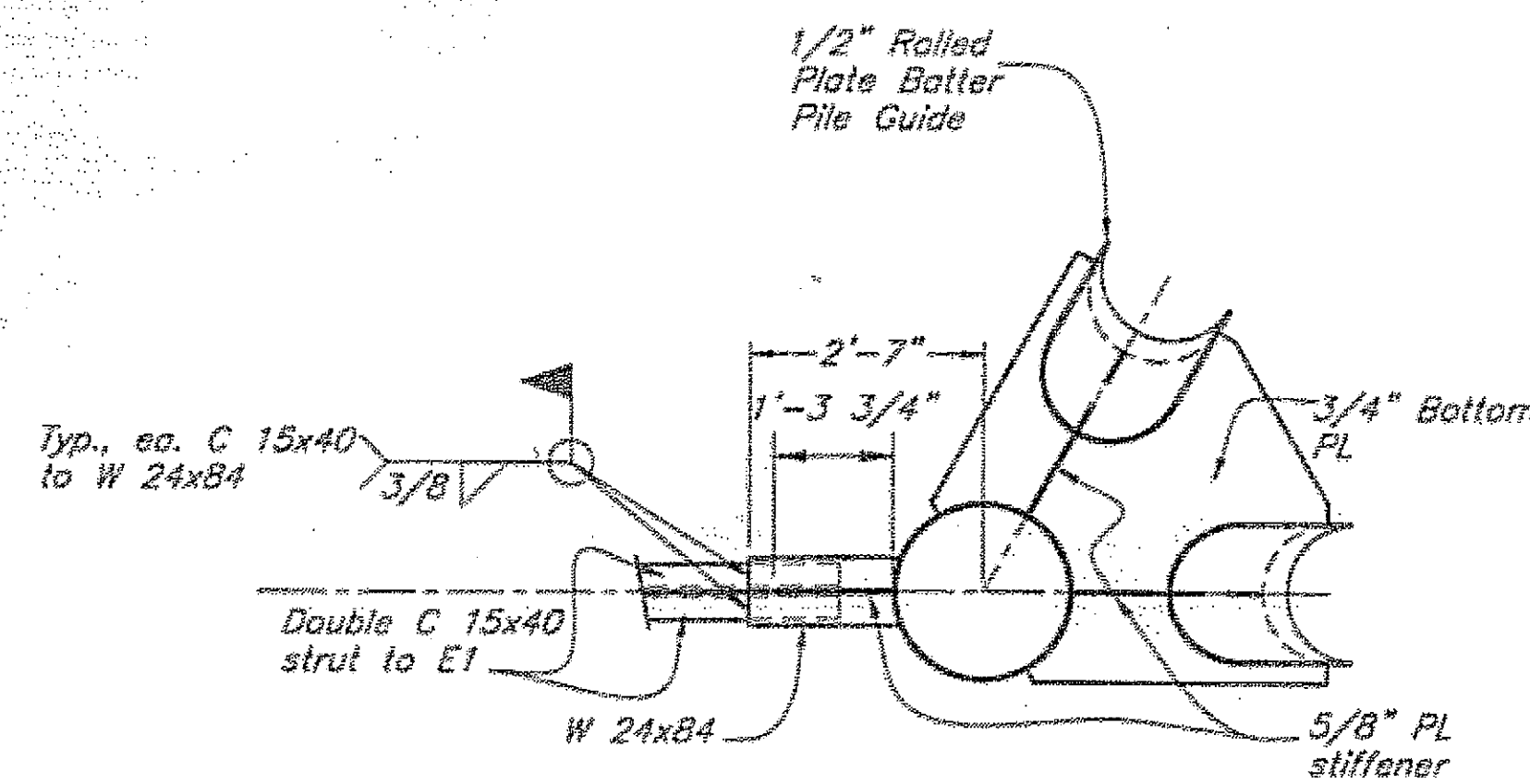
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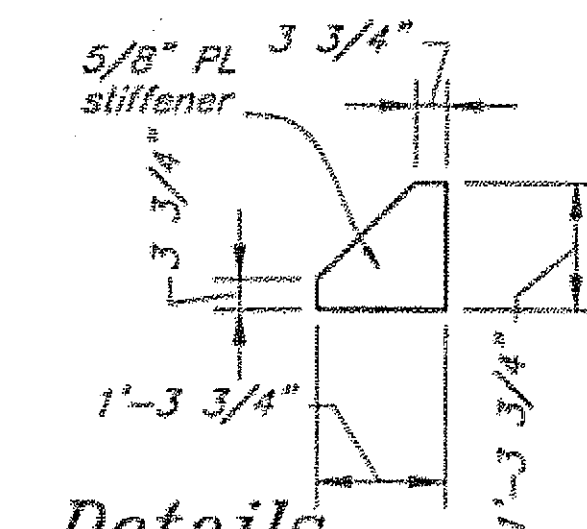
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NO.	DATE	DESCRIPTION				
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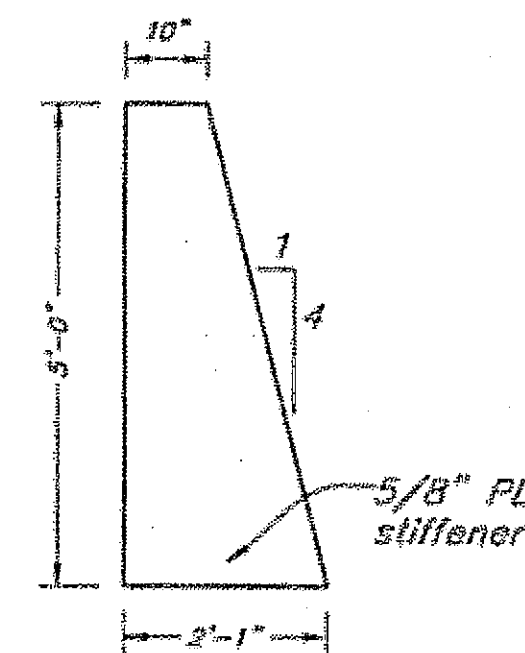
**Elevation
Dolphin**



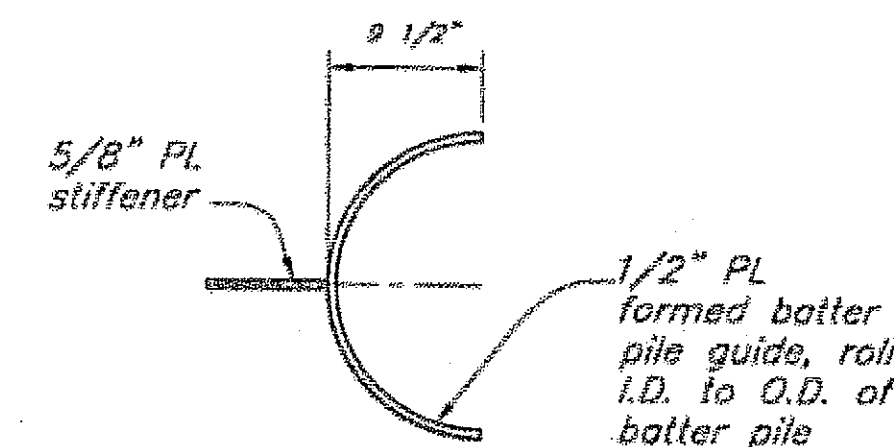
**Section
Strut Attachment** **B**
11



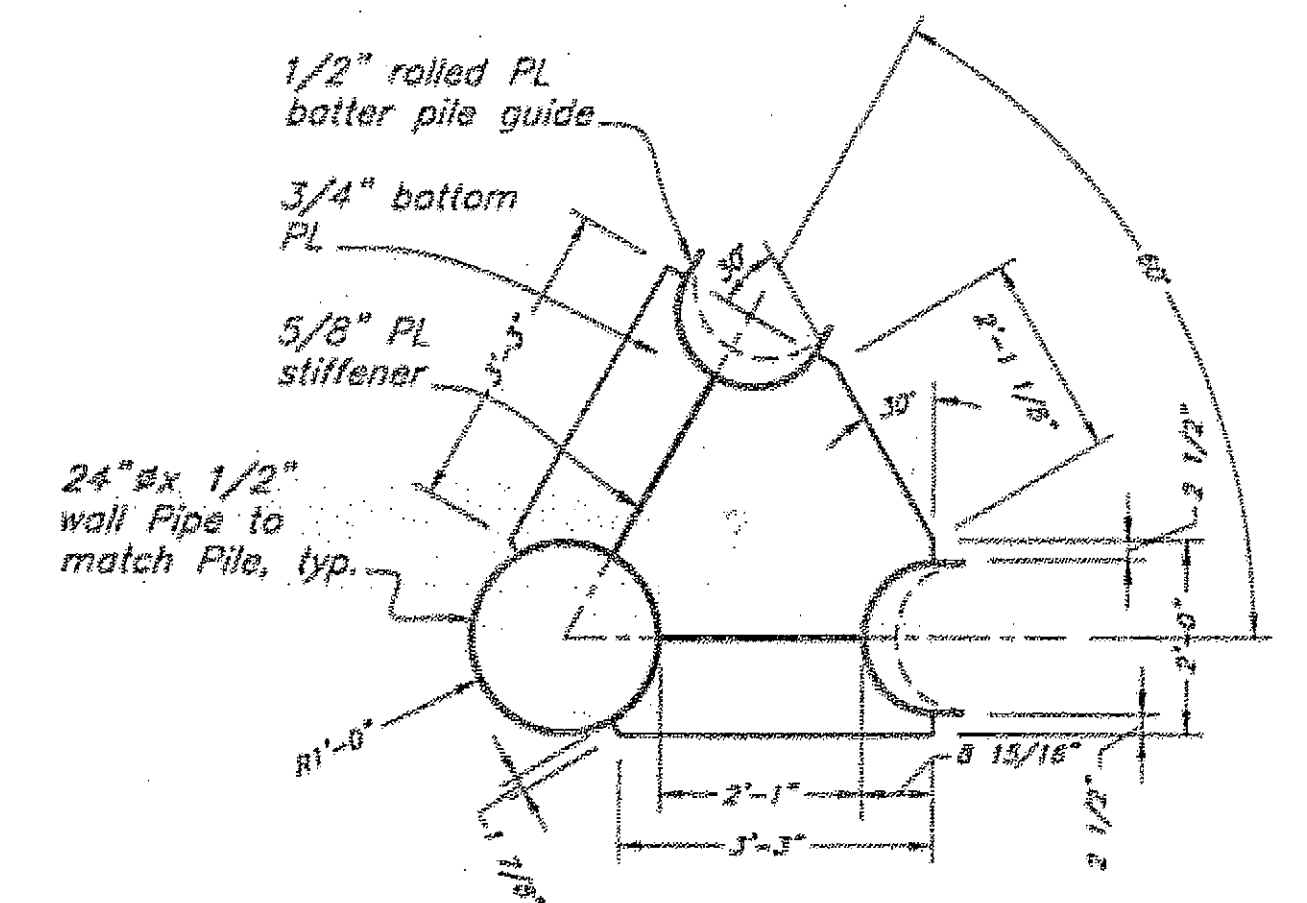
**Details
Strut Stiffener**



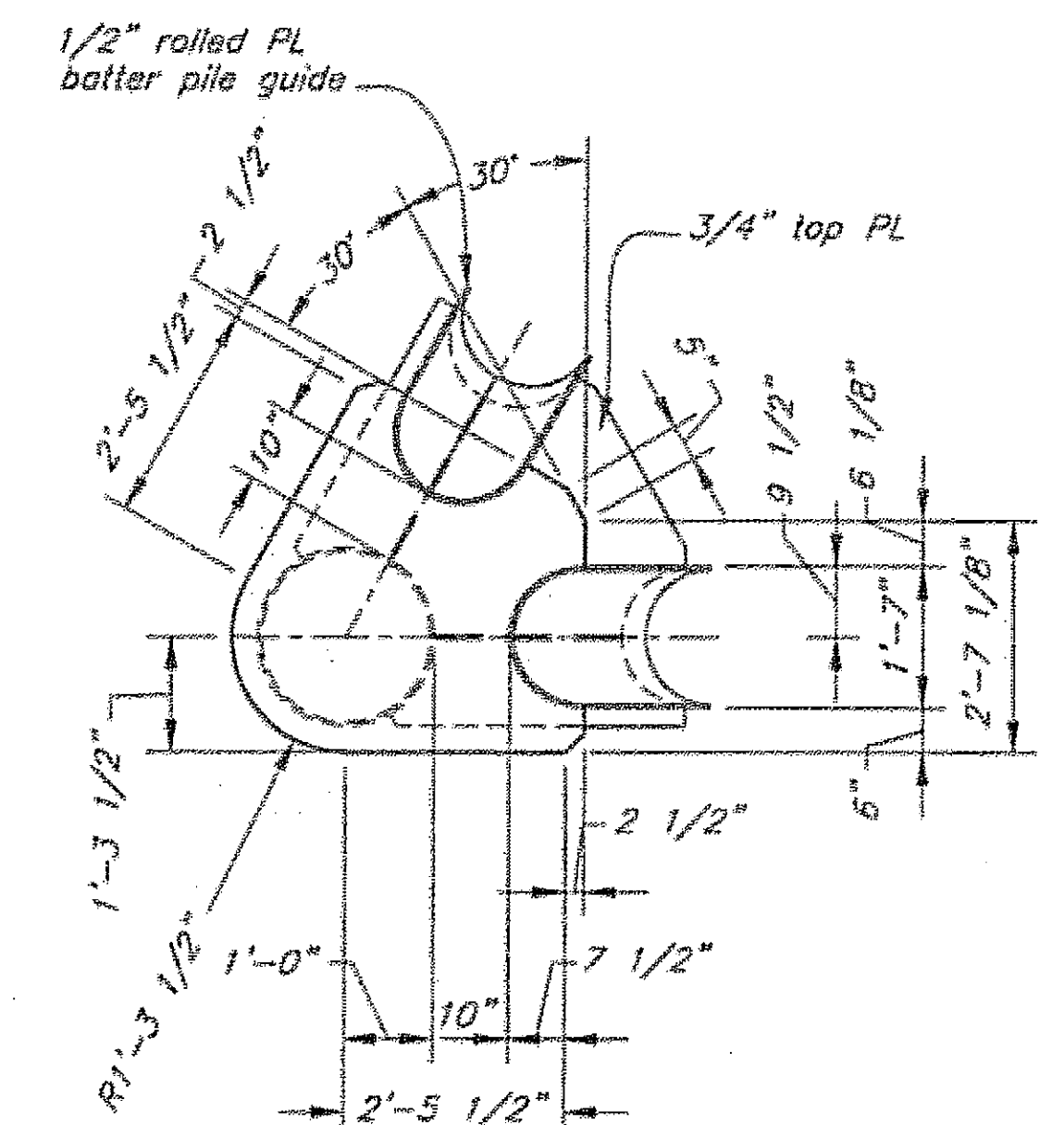
**Details
Cap Stiffener**



**Details
Batter Pile Guide**



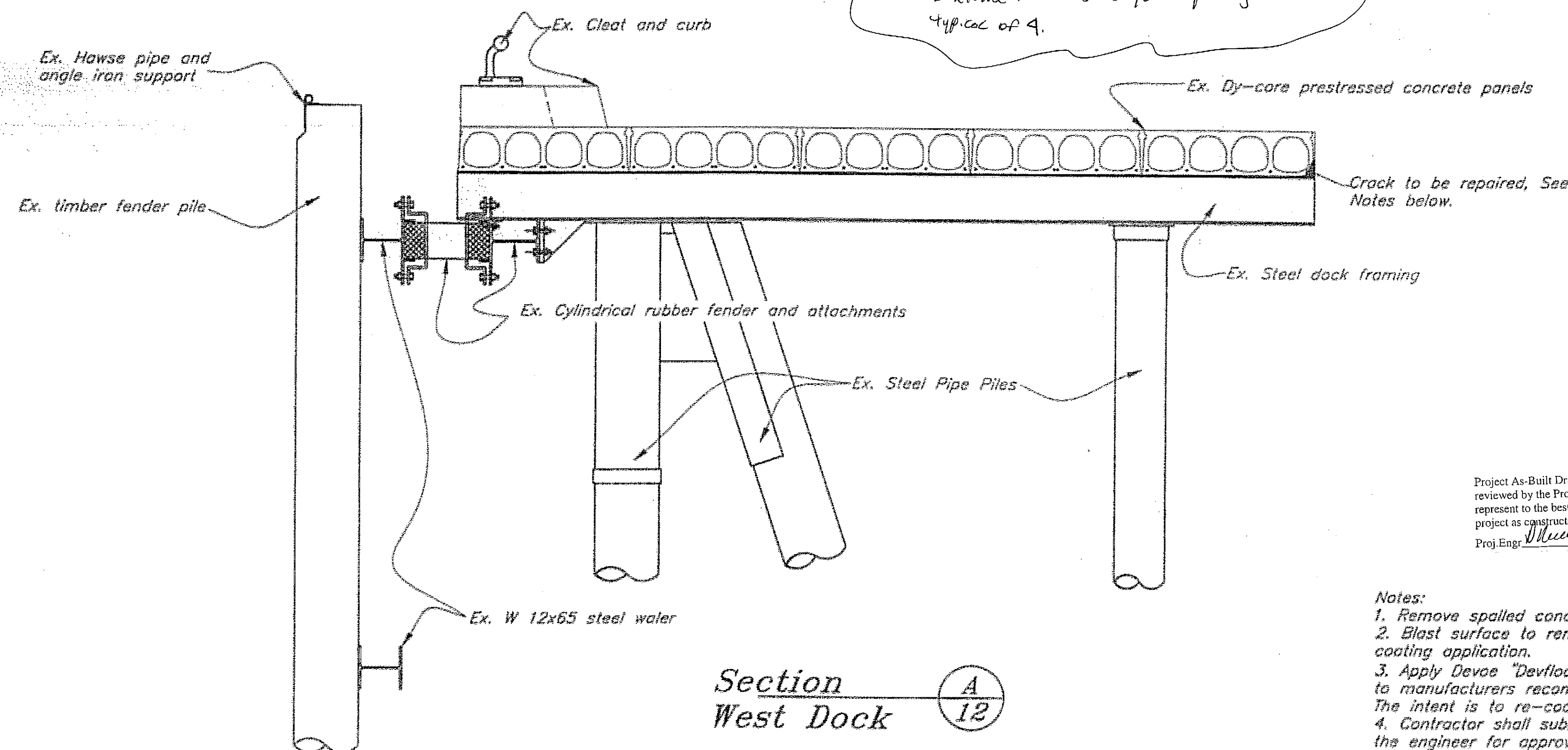
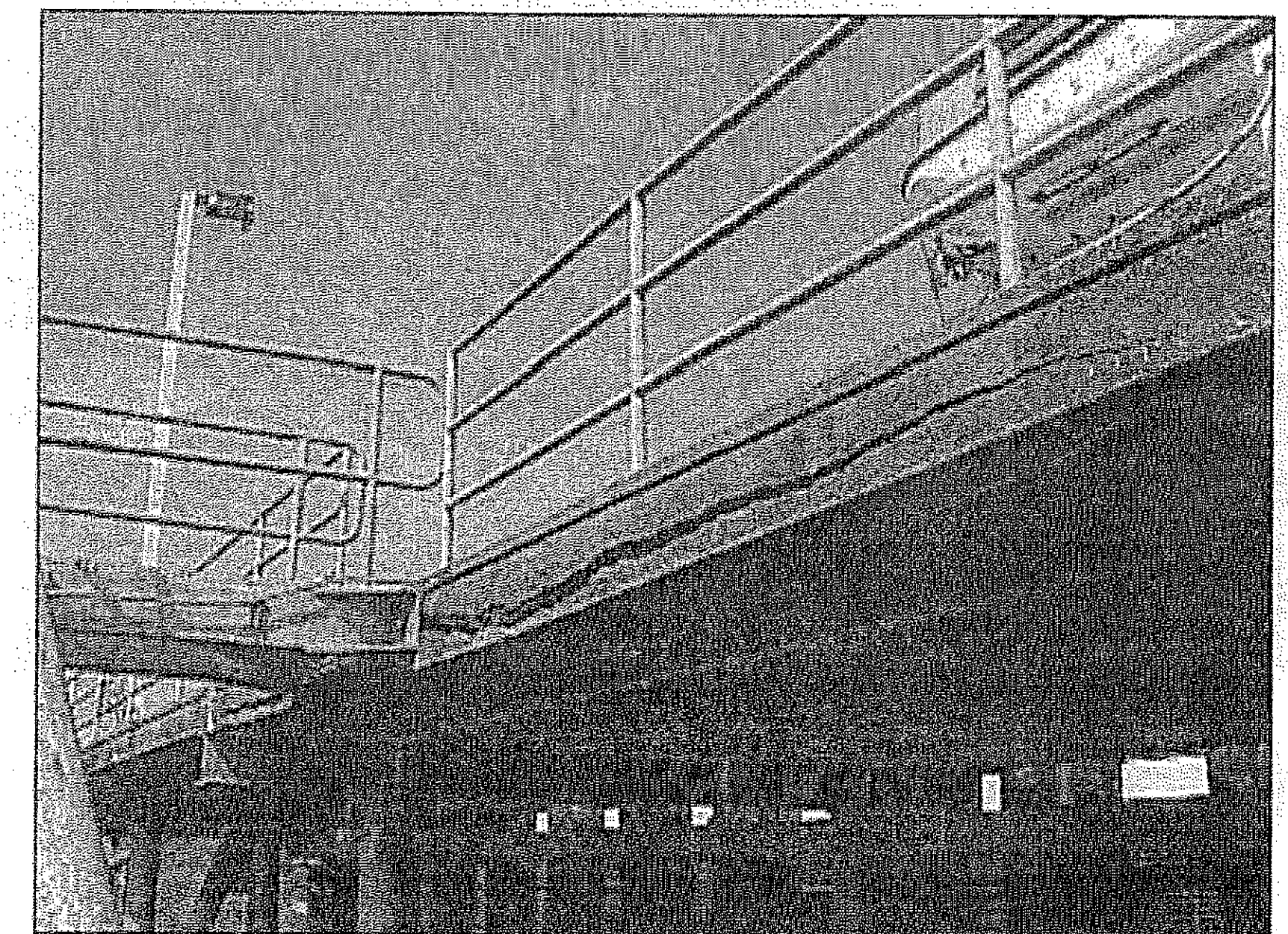
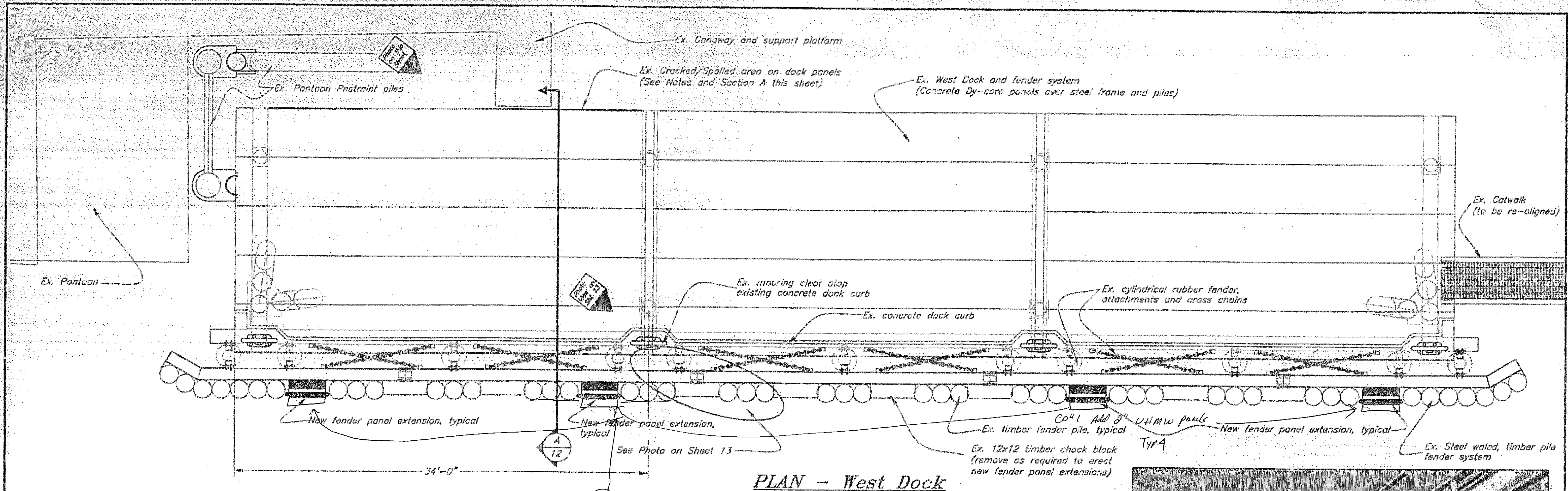
**Section
Bottom Plate** **A**
11



Cap Plan

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DESIGNED BY: B. Nelson		STATE OF ALASKA DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES STATEWIDE DESIGN & ENGINEERING SERVICES DIVISION			
		SITKA ALL-TIDE MOORING IMPROVEMENTS PROJECT NO. 68792 Back-up Dolphin EB for Mooring Structure E1			
		8-18-03			
CHECKED BY: J. Beedie		TAB: DETAIL			
DRAWN BY: B. Nelson, T. Mores		PROJECT DESIGNATION			
PATH: Q:\54\6792\1\W\Penet\A11 & C&E\011-20 E1 Back-up.dwg		YEAR			
PLOT: PSPACE 1=1		SHEET NO.			
		TOTAL SHEETS			
		68792			
		2003			
		11			
		15			



Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge, the project as constructed.

10-10-06

Proj. Engr _____ Date _____

- Notes:
1. Remove spalled concrete and exposed rebar.
 2. Blast surface to remove debris and prep for coating application.
 3. Apply Devoe "Devfloor 515" or equal according to manufacturers recommendations.
The intent is to re-coat the exposed surface.
 4. Contractor shall submit a repair procedure to the engineer for approval.

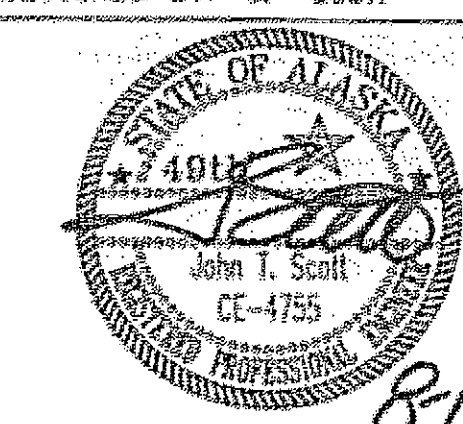
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STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
& PUBLIC FACILITIES
STATEWIDE DESIGN & ENGINEERING SERVICES DIVISION

SITKA ALL-TIDE
MOORING IMPROVEMENTS
PROJECT NO. 68792

Fender Extension Plan and Section

DESIGNED BY: J. Scott

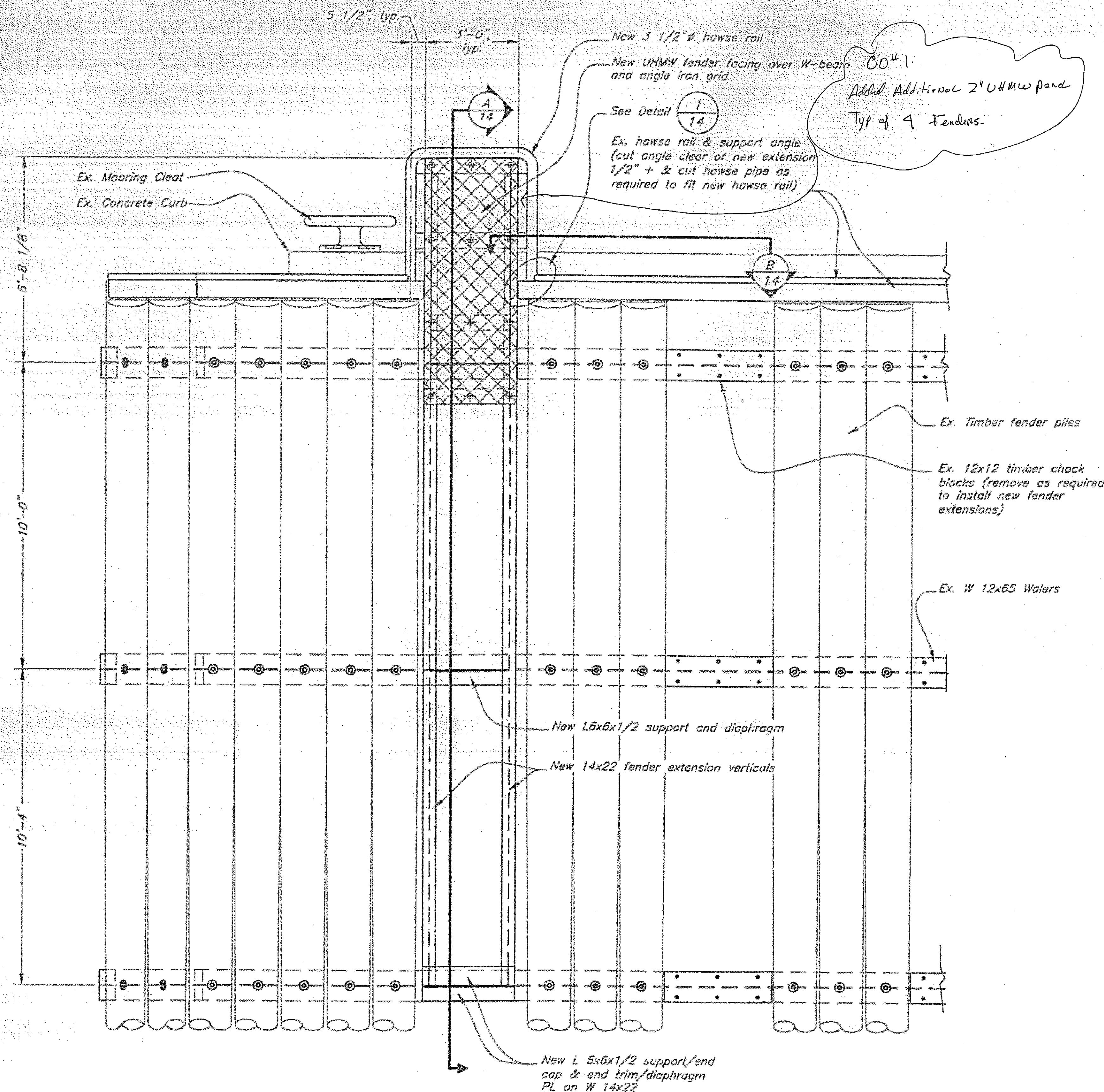


CHECKED BY: J. Seidle
DRAWN BY: C. Fyman

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PLOT: PSPAGE 1=1

726 DEBARI

REVISIONS			PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
NO.	DATE	DESCRIPTION				
			68792	2003	12	15



*Elevation
Fender System Extension*

Existing concrete curb

Existing cylindrical fender chains & attachments

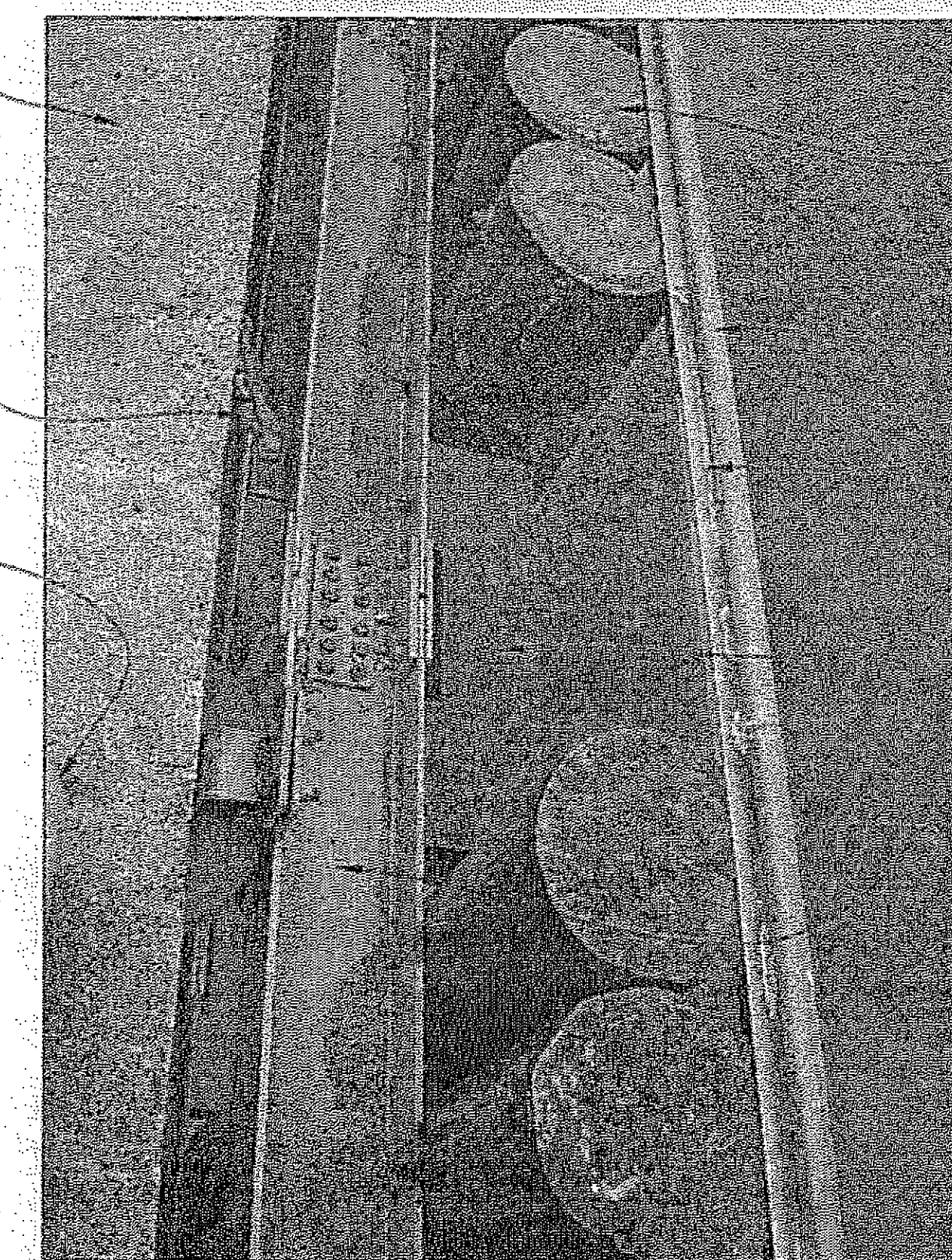
Existing mooring cleat

Existing timber fender piling

Existing hawse pipe & support angle iron

Existing timber chock block

Existing W 12x65 upper waler

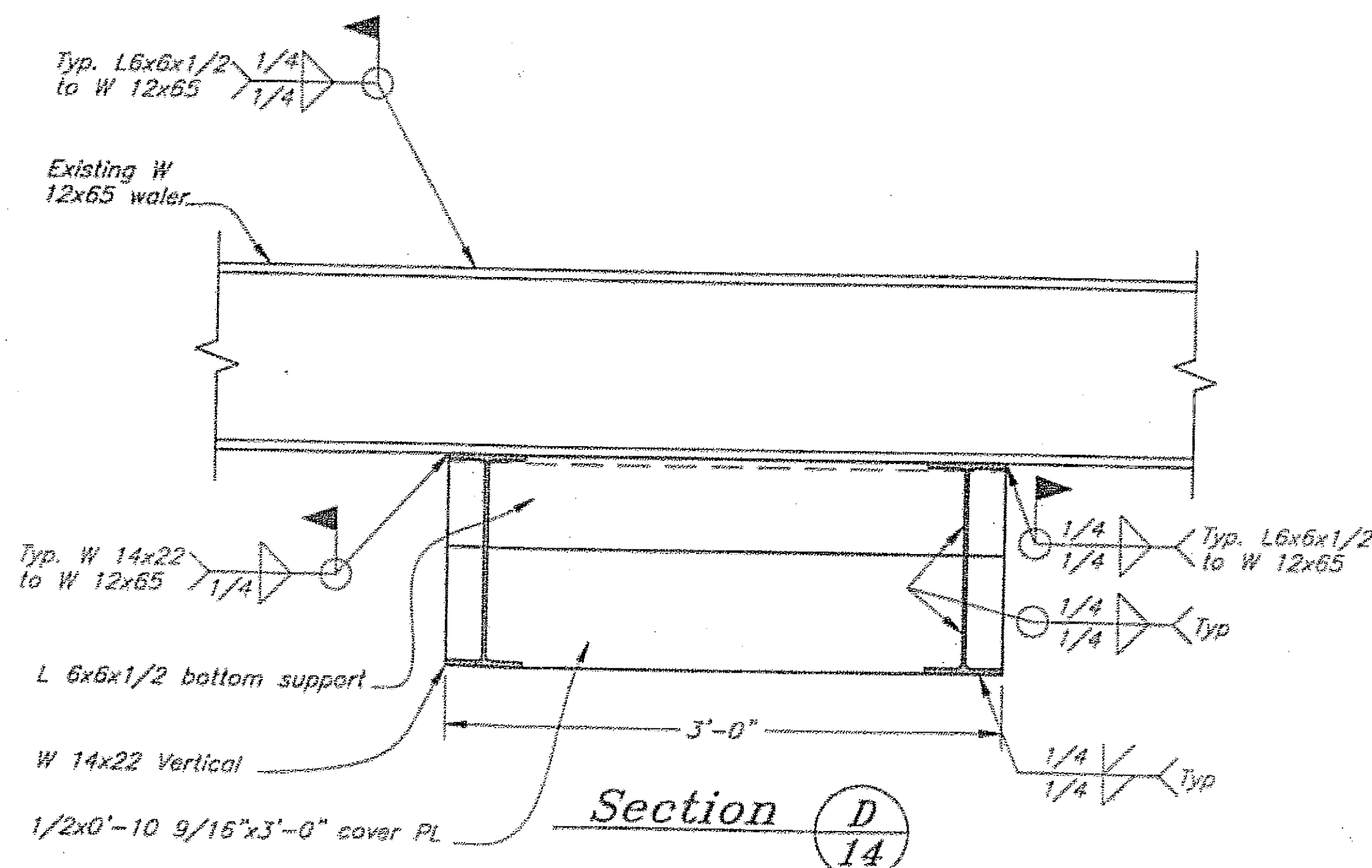
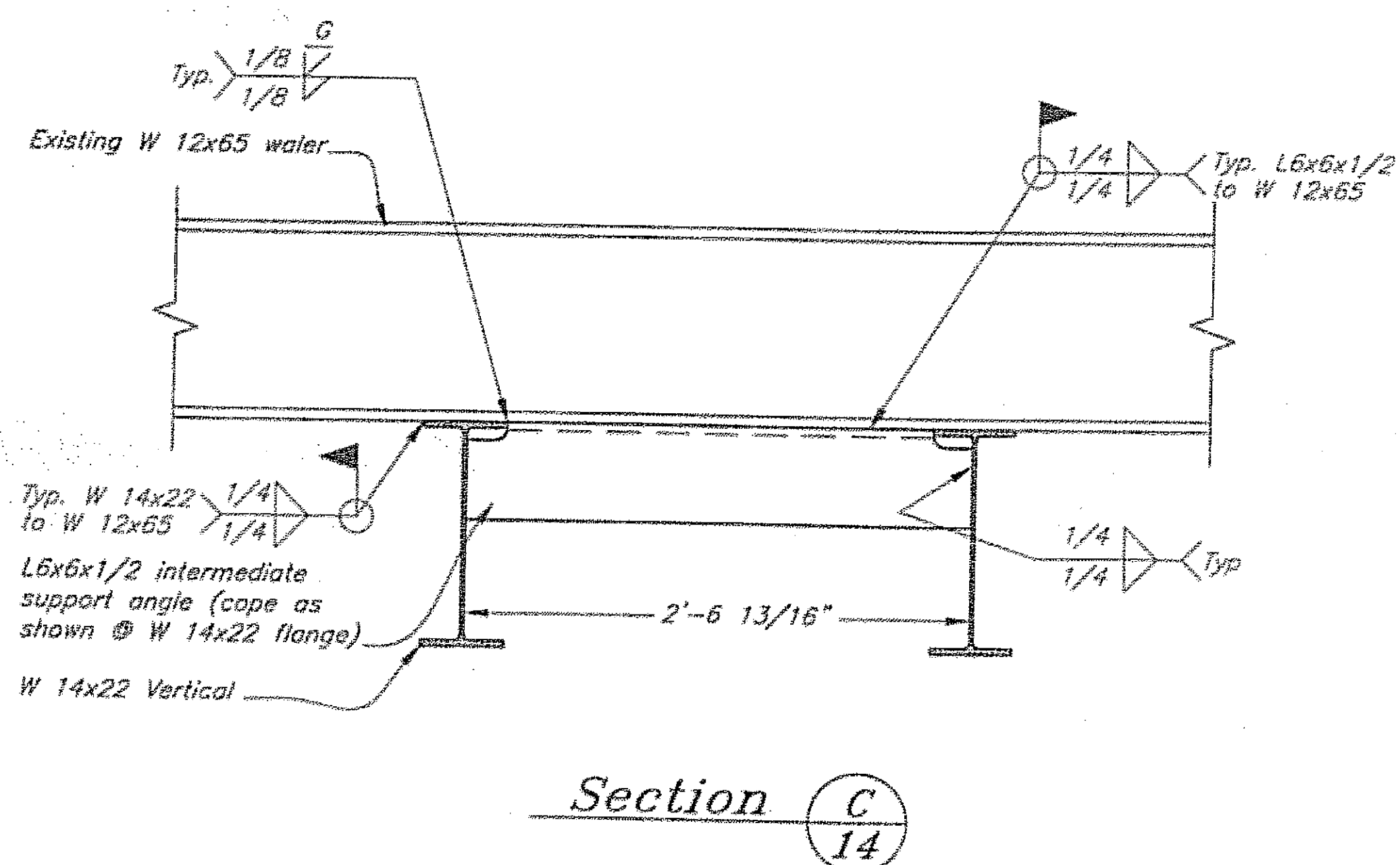
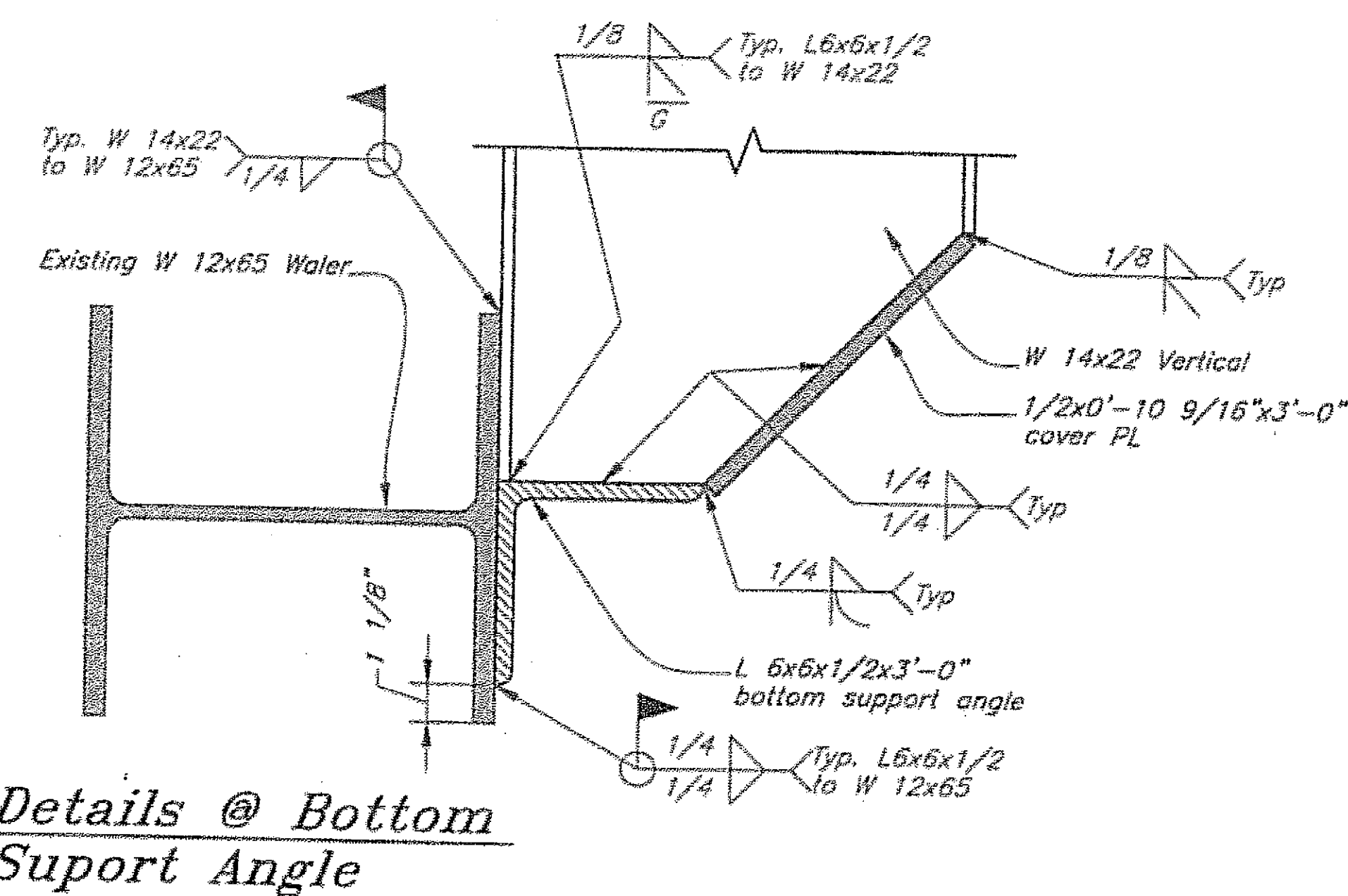
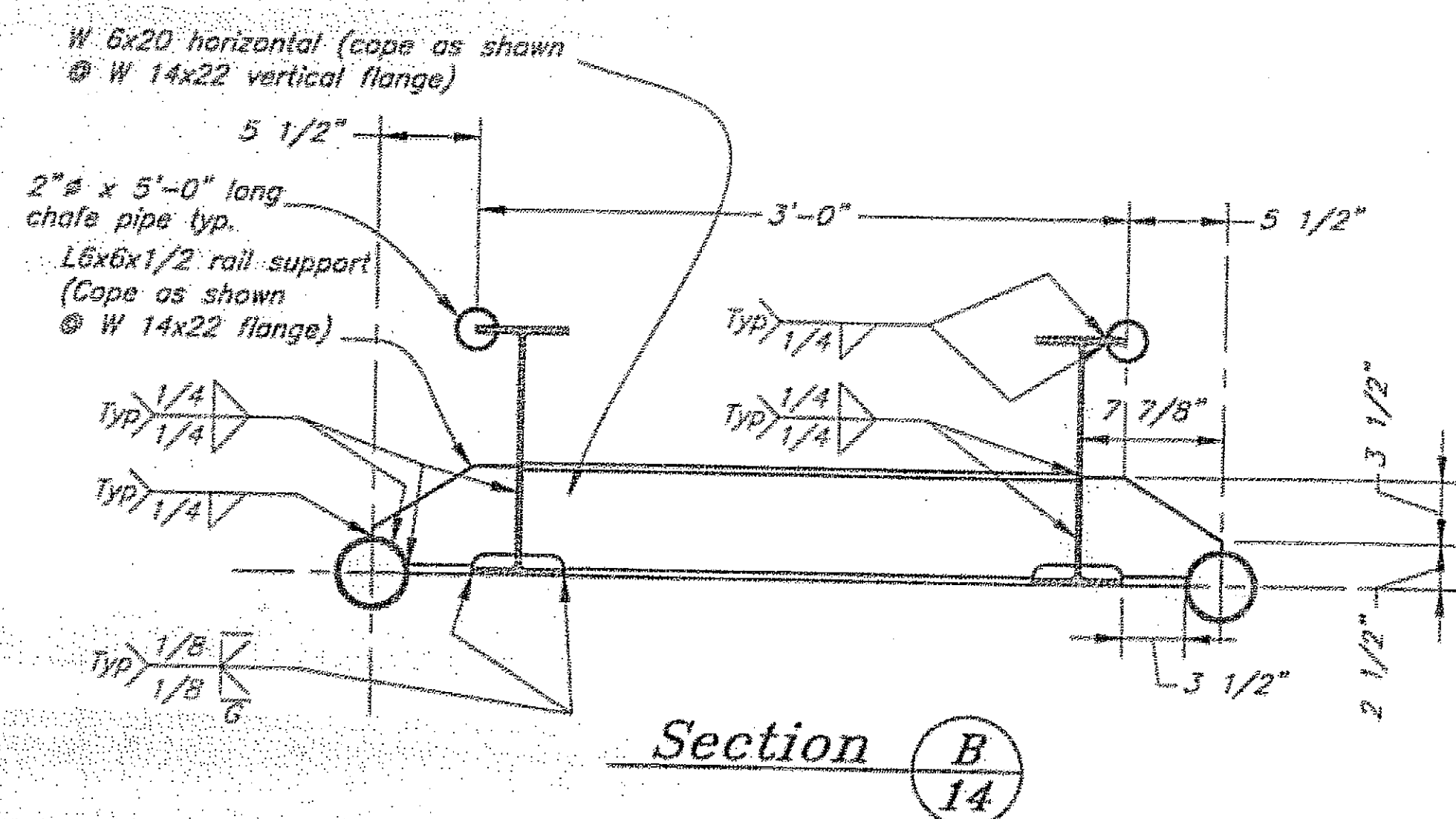
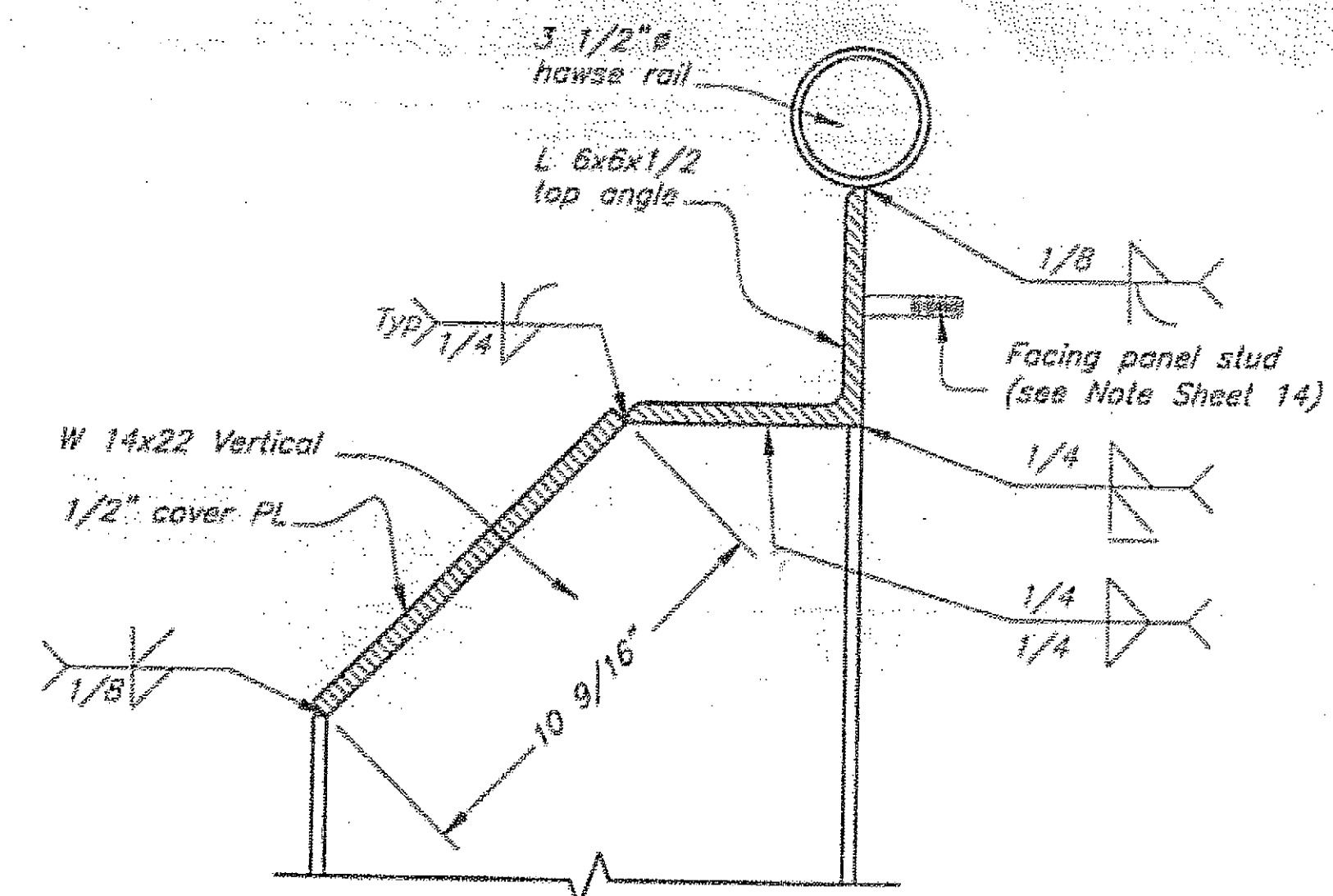
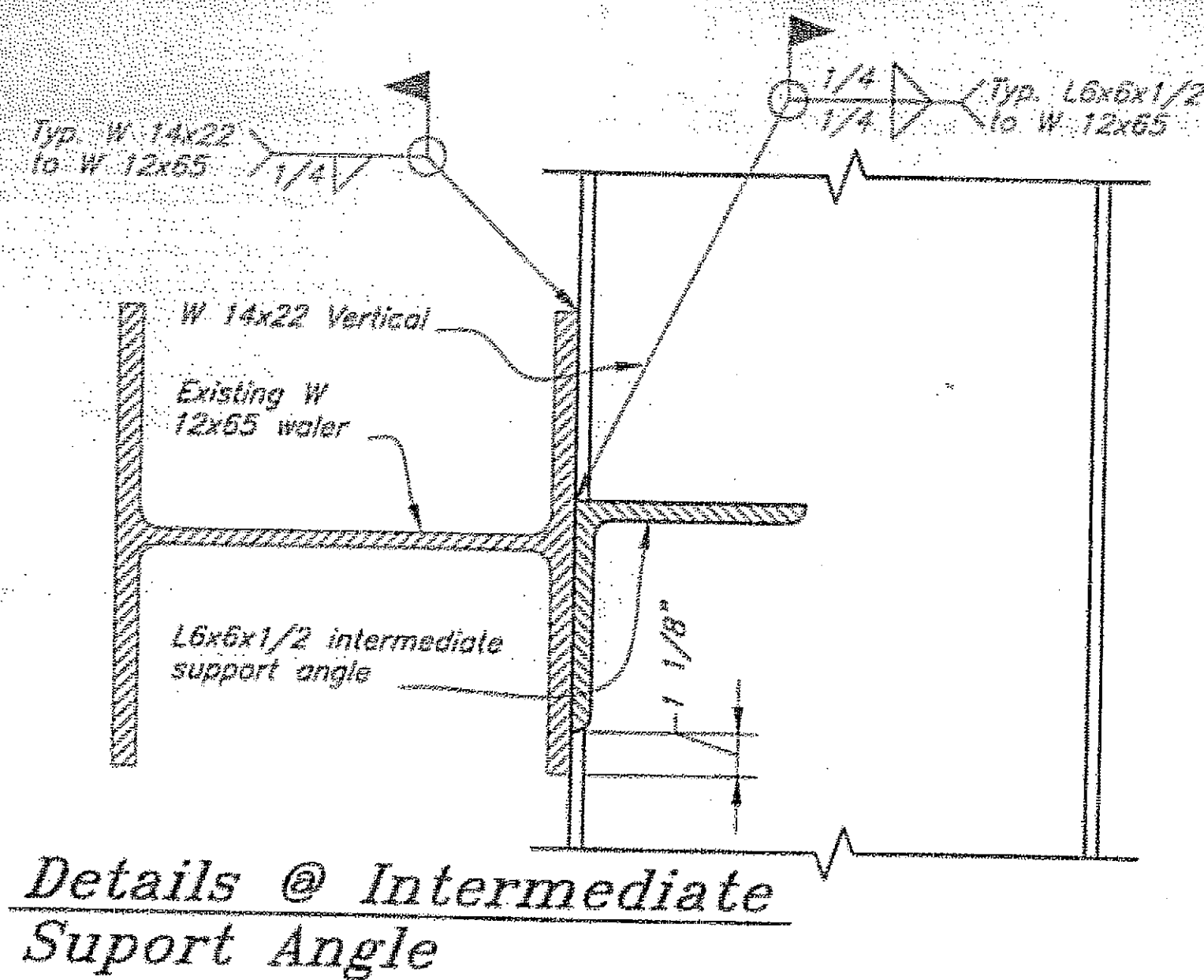
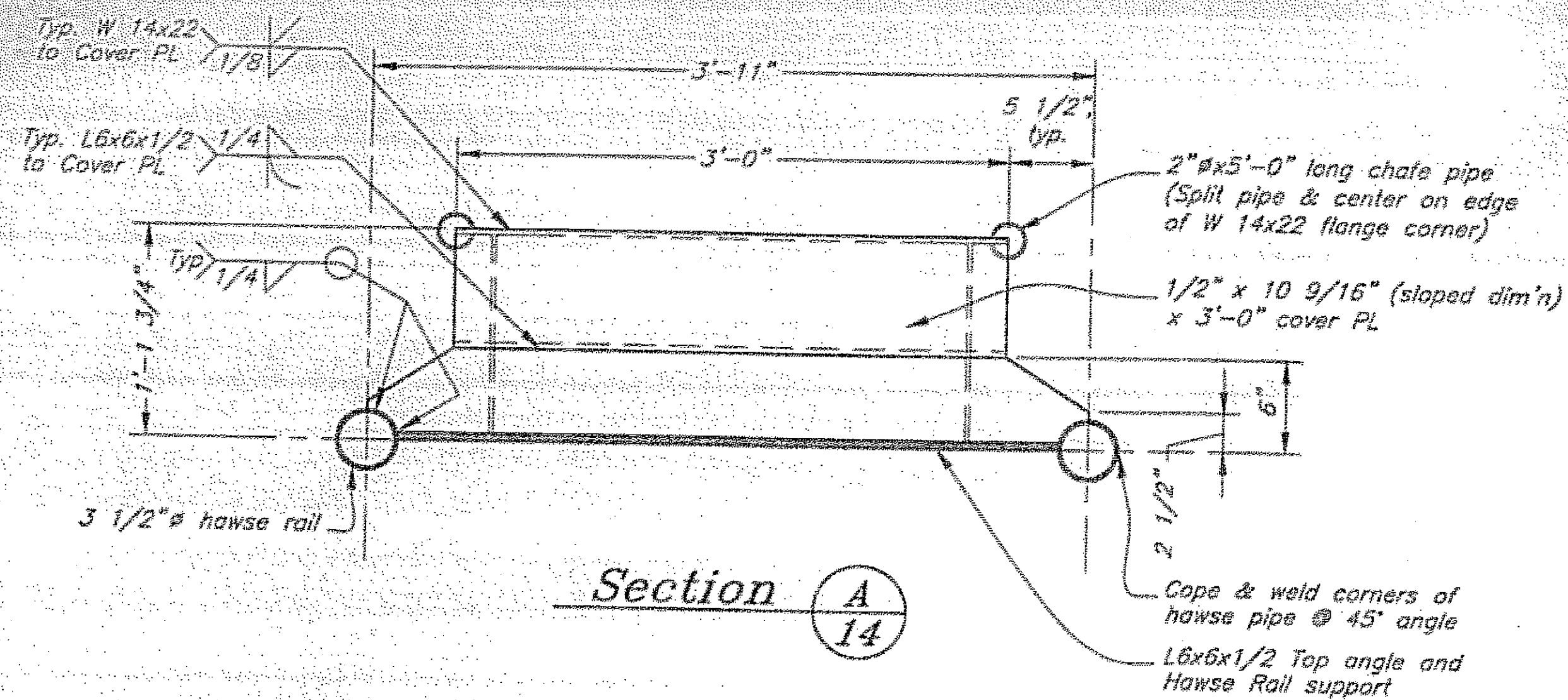


*Photo of Existing Fender System
(see sheet 12 for photo location)*

Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge, the project as constructed.
Proj. Engr. *[Signature]* Date 10-0-06

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DESIGNED BY: J. Scott		STATE OF ALASKA DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES STATEWIDE DESIGN & ENGINEERING SERVICES DIVISION			
		SITKA ALL-TIDE MOORING IMPROVEMENTS PROJECT NO. 68792			
		Fender Extension Elevation View			
CHECKED BY: J. Beedle		DATE: 8-18-03			
DRAWN BY: J. Scott		PROJECT DESIGNATION: 68792			
PATH: G:\57167531\AW\Planned\PH1 & CGE\013-Dock Fender ext Elevation		YEAR: 2003	SHEET NO.: 13	TOTAL SHEETS: 15	
PLOT: PSPACE 1=1		TAG: DETAIL			
REVISIONS					
NO.	DATE	DESCRIPTION			



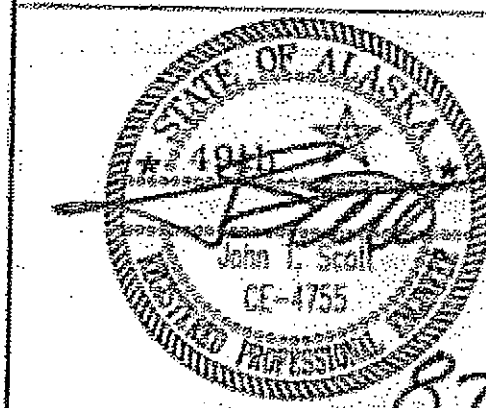
Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge, the project as constructed.

Proj. Engr. S. Miller 10-10-06 Date

Proj. Engr. D. Muel 10-10-86 Date

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

DESIGNED BY: V. Scott



STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
& PUBLIC FACILITIES
STATEWIDE DESIGN & ENGINEERING SERVICES DIVISION

SITKA ALL-TIDE
MOORING IMPROVEMENTS
PROJECT NO. 68792

Fender Extension Details

CHECKED BY: J. Beadle
DRAWN BY: J. Scott, T. Mores

PATH: D:\SF\87931\14\Alunet\PI1 & GCE\DIS-Deck funder ext Details.dwg
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TAB. DETAIL

18 Aug 23 11:50

REVISIONS			PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
NO.	DATE	DESCRIPTION				
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REVISIONS			PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
NO.	DATE	DESCRIPTION				
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