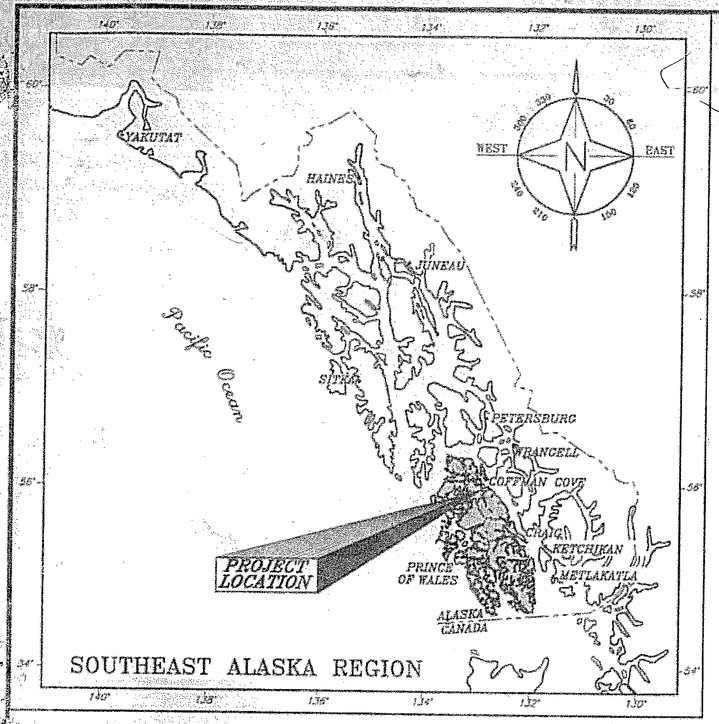
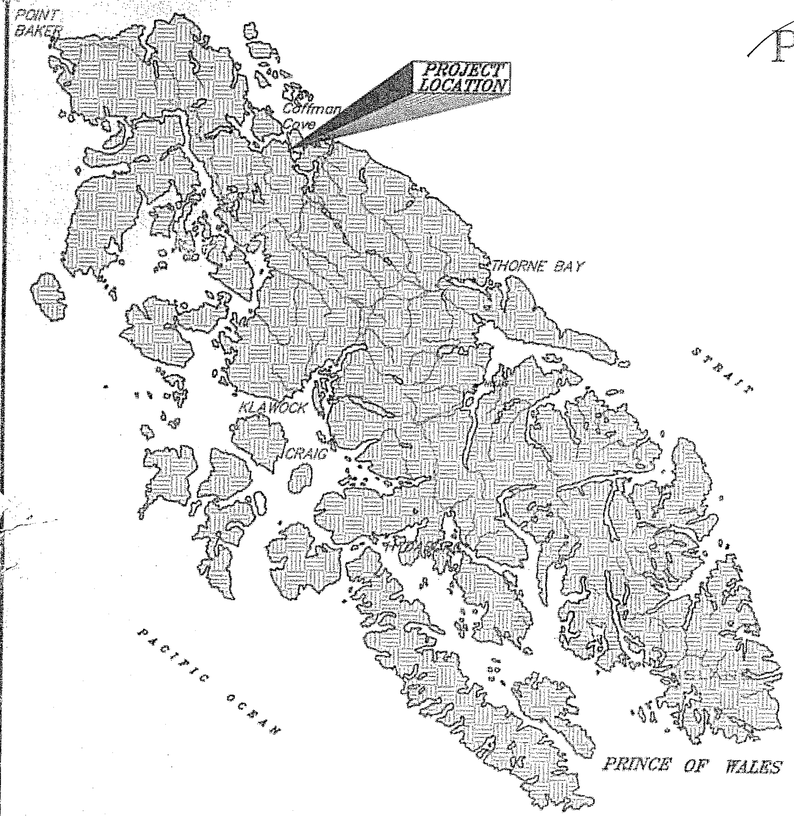
AS-BUILT PLANS





DESIGNED BY
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES
SOUTHEAST REGION

FOR THE

City of Coffman Cove

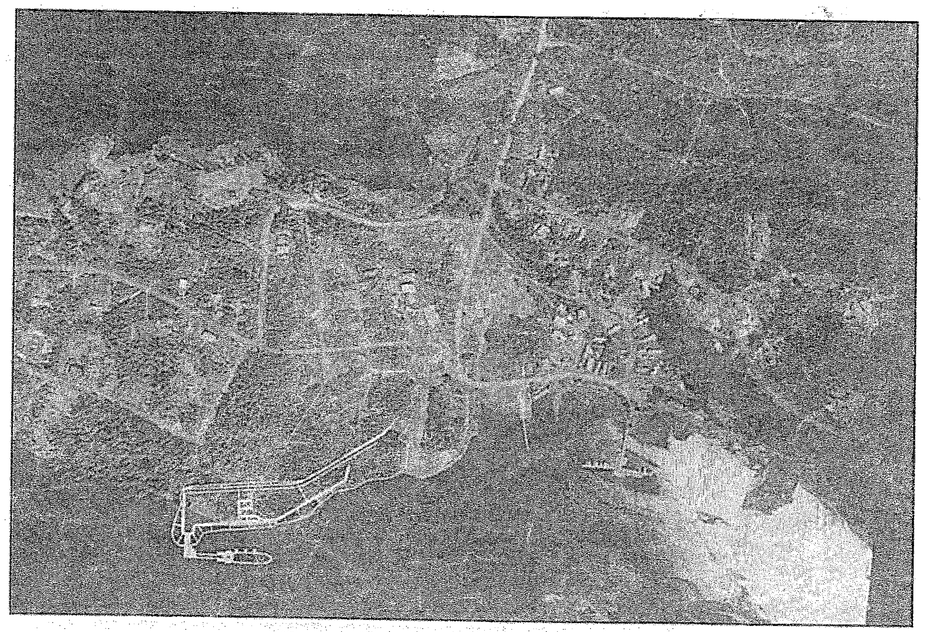
A PROJECT AT

COFFMAN COVE, ALASKA

Planset A

FERRY TERMINAL MARINE FACILITIES

PROJECT No. 67844 ~ STP-0003(66)



Proposed Terminal Site

INDEX OF SHEETS

SHEET NO.	DESCRIPTION
1	Title Sheet
2	Estimate of Quantities & General Notes
3	Site Plan & Survey Control
4	Marine Layout
5	Pile Layout
6	Approach Abutment Area Layout
7–10	Approach & Dock Plan, Elevations, & Sections
11–30	Approach & Dock Details
31–39	Transfer Bridge
40	Bridge Support Float & Platform Layout
41	Bridge Support Float
42–54	Support Float Restraints – Dolphins WR & ER
55–61	Pedestrian Platform
62–69	Ramp & Apron
70	Hydraulic Power Unit
71–77	Stern Fender & Ramp Support
78–80	Utilities
81–85	Floating Fender Dolphins S1–S4
86–92	Pedestrian Trestle
93–98	Pedestrian Gangway
99	Cathodic Protection Anodes

AS-BUILTS

CONTRACTOR - SE ROAD BUILDERS
PE - GREG BROWNING
BEGIN - 6/2005
END - 8/2006

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND
PUBLIC FACILITIES
SOUTHEAST REGION

APPROVED Jack O Bendle Date 3/16/05
Regional Preconstruction Engineer
Patrick J. Kemp

For

APPROVED Gary L Paxton Date 3/16/05
Director, S.E. Region
Gary L. Paxton

PROJECT NUMBER: 67844

DATE: 2005

SHEET 1 OF 99

Kirk D. Miller
No. CE-8556

V 903 2/07

ESTIMATE OF QUANTITIES – MARINE FACILITIES

ITEM NO.	ITEM	EST. UNIT	ESTIMATE QUANTITY
501(9)	Concrete Abutment for Steel Trestle	LS	All Req'd
504(01)	Steel Approach Dock Structure	LS	All Req'd
504(02)	Steel Transfer Bridge	LS	All Req'd
504(03)	Steel Bridge Float System	LS	All Req'd
504(04)	Float Platforms – Pedestrian Platform & Intermediate Ramp	LS	All Req'd
504(05)	Vehicle Apron & Lift System	LS	All Req'd
504(06)	Bridge Float Fenders & Pile Restraint Collars	LS	All Req'd
504(07)	4–Pile Bridge Float Restraint Dolphin Cap (ER & WR)	Each	2
504(08)	Floating Moorng Dolphin Pile Cap & Lower Brace (S1–S4)	Each	4
504(09)	Trestle Support Pile Cap & Bracing	LS	All Req'd
504(10)	7.5'x51' Steel Trestle	LS	All Req'd
504(11)	7.5'x105' Aluminum Gangway	LS	All Req'd
505(01)	30" dia. x 1/2" wall Pipe Piles, Furnished	Lineal Foot	1014
505(02)	30" dia. x 1/2" wall Pipe Piles, Driven	Each	8
505(03)	24" dia. x 3/4" wall Pipe Piles, Furnished	Lineal Foot	544
505(04)	24" dia. x 3/4" wall Pipe Piles, Driven	Each	4
505(05)	24" dia. x 1/2" wall Pipe Piles, Furnished	Lineal Foot	1668
505(06)	24" dia. x 1/2" wall Pipe Piles, Driven	Each	14
505(07)	20" dia. x 1/2" wall Pipe Piles, Furnished	Lineal Foot	1190
505(08)	20" dia. x 1/2" wall Pipe Piles, Driven	Each	8
505(09)	18" dia. x 1/2" wall Pipe Piles, Furnished	Lineal Foot	2118
505(10)	18" dia. x 1/2" wall Pipe Piles, Driven	Each	20
505(11)	12.75" dia. x 1/2" wall Pipe Piles, Furnished	Lineal Foot	436
505(12)	12.75" dia. x 1/2" wall Pipe Piles, Driven	Each	4
505(13)	100 lb. Anode	Each	~~26~~ 28
520(1)	Install State Furnished Floating Rubber Fender & HDPE Riser (S1–S4)	Each	4
520(2)	New Steel Mooring Crown (S1–S4)	Each	5
627(12)	Potable Water System (Marine)	LS	All Req'd
662(1)	Electrical System (Marine)	LS	All Req'd

Note: Above table reflects major marine facilities work items only. Reference Sheets Q1 and Q2 and bid schedule for complete listing of all bid items.

Abbreviations

SS – Stainless Steel
Galv. – Galvanized
Typ – Typical
O.C. – On Center

Tidal Data

Est. Max HW	=	19.80'
MHHW	=	15.60'
MTL	=	8.10'
MLLW	=	0'
Est. Max LW	=	-4.50'

GENERAL NOTES FOR MARINE STRUCTURES AND COMPONENTS

Design Information

Specifications: Per Contract Documents for Project No. 67844 / STP–0003(66)

Design Standards: AKDOT&PF & Southeast Region Marine Engineering Design Standards & AASHTO

Design Vessel: IFA Vessel, MV Stikine
LOA=200' / Beam=53' / Displacement=780 LT
Vehicle Deck Freeboard – 7.0' (loaded) / 8.0' (light)
Loaded Draft=12.0'

Design Loads: Mooring and Fender Structures:
Floating Fenders Vessel Berthing – 80 ft–kips (berthing energy) / 52 kips (impact)
Floating Fender Mooring Line Load – 50 kips
Stern Berth Vessel Berthing – 30ft–k (service)
Stern Berth Mooring Load – 50 kips
Bridge & Dock Structures – AASHTO HS20
Pedestrian Trestle & Gangway – 85 psf (Live Load)

Materials

Concrete: Class A = 4000 psi. Reinforcement: Grade 60, Fy = 60 ksi

Steel Shapes & Plates: Plates and shapes – ASTM A36 unless otherwise noted on plans.
Tube Sections – ASTM A500 Grade B
Pipe – ASTM A53, Grade B, Type E or S
Stainless Steel – ASTM Type T316
Charpy Group 2 impact requirements shall apply where noted on Plans.

Aluminum Plates & Shapes: ASTM 6061–T6

Piling: Steel pipe – Straight Seam, ASTM A252 Grade 3 or equal, see Specifications.
Size – As noted on Plans and Pile Tables

Steel Grating: Welded bar type, serrated top, thickness & bar spacings as noted on Plans.

UHMW: Ultra High Molecular Weight Plastic, ASTM D4020

Hardware: ASTM A325

Protective Coatings

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

Approach: Galvanized after fabrication per Specifications.

Bridge Float: Exterior coating per Spec's, System 1 w/ non–skid.

Platforms, Weldments, Gangways, Mooring Structures and Fenders: Galvanized after fabrication per Specifications.

Transfer Bridge: Painted during and after fabrication per Specifications, System 5.

Apron: Galvanized after fabrication & non–skid coatings per Specifications.
Non–Skid Coating for Steel & Aluminum Surfaces: Per Specifications and per plans.

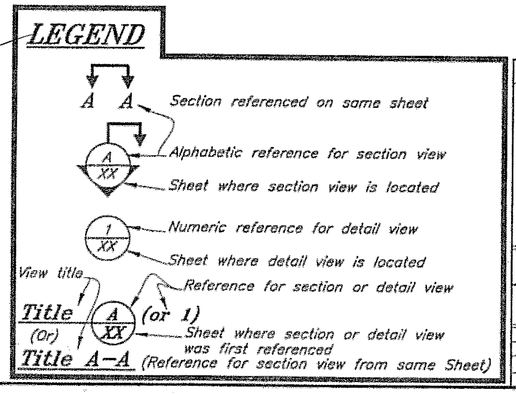
Piling

Materials & Size: Per above and as noted on plans & Specifications.

Tips: Reinforced Tips, APF 14001 inside flange cutting shoe, typ all pipe piles.

Driving Requirements: Drive all piles to estimated tip elevation. See Pile Layout, Sht 5 & Specifications.

LEGEND



DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

DESIGNED BY: K. Miller/J. Scott
DRAWN BY: J. Scott
CHECKED BY: J. Beedle

STATE OF ALASKA
Kirk D. Miller
CE–8550
49th
PROFESSIONAL ENGINEER
3/15/05

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
& PUBLIC FACILITIES
S.E. REGION DESIGN & ENGINEERING SERVICES DIVISION

Coffman Cove Ferry Terminal
Project 67844

Quantities and General Notes

PATH: Q:\Pow\67844\MF\Planset\002–Estimate of Quantities.dwg
PLOT: PSPACE 1=1 Wed, 23/Feb/05 09:11AM

REVISIONS NO.	DATE	DESCRIPTION

PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
67844	2005	2	99

✓ GPB 2/2007

TRACT E
CITY OF COFFMAN COVE

A.S.L.S. 86-163

19+00
20+00
21+00
22+00
23+00
24+00
25+00
26+00

RV
RV

term bldg

Mtce Bldg

N 502011.8713
E 99592.6340
= 23+86.7000

N 502212.9819
E 99573.5667
= 25+88.7100

N05°24'58"W
511.92'

S84°35'02"W
88.85'

S84°35'02"W
129.88'

N 00°00'00" E

Future seaplane facility
(not in this project)

THIS AREA WAS CHANGED PER CO NO 1 (see Plan Sheets G)

Pedestrian trestle

Pedestrian gangway

Floating fender, typ.

Pedestrian gangway platform

Support float

Transfer bridge

Transfer bridge abutment

Elev. +26.04
Begin approach
@ Layout Line

P-1
P-2
P-3
TH-1
TH-2
TH-3

MV Stikine

A.T.S. 1590
TRACT B
CITY OF COFFMAN COVE

PROPOSED TIDELAND
CONVEYANCE ADL 107163
CITY OF COFFMAN COVE

A.T.S. 1590
TRACT A
CITY OF COFFMAN COVE

Legend

⊕ TH Test Hole, see Specs, Appendix C
⊕ P Panetrometer Test Probe, see Specs, Appendix C
① ② Control Point

Site Plan - Marine Layout

GRAPHIC SCALE
0 15 30 60
(in feet)

Control Points

Point #	Description	Coordinates	
①	Back Edge of Glulam Backwall	N 502200.7228	E 99444.2657
②	Intersection Approach Layout Line and ℄ Transfer Bridge	N 502200.7228	E 99332.2657
③	℄ Bearing @ Bridge Abutment	N 502152.3895	E 99332.2657
④	Face of Concrete Abutment	N 502003.4847	E 99504.1720
⑤	Intersection of ℄ Transfer Bridge and ℄ Pedestrian Trestle and Gangway	N 502003.4847	E 99332.2657
⑥	Intersection of ℄ Transfer Bridge/Float and Face of Float Female Locks	N 501970.9845	E 99332.2657

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DESIGNED BY: K. Miller/J. Scott
CHECKED BY: B. Sawikka
DRAWN BY: Staff

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
& PUBLIC FACILITIES
S.E. REGION DESIGN & ENGINEERING SERVICES DIVISION

Coffman Cove Ferry Terminal
Project 67844

Site Plan & Marine Layout Control

PATH: Q:\Pow\67844\MF\Planset\003 Site Plan.dwg
PLOT: PSPACE 1=1 Tab: Site Plan Wed, 23/Feb/05 11:54AM

REVISIONS NO.	DATE	DESCRIPTION	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			67844	2005	3	99

J/B 2/07

Re Done - This AREA

Mtce Bldg

S84°35'02"W 129.88'

S84°35'02"W 88.85'

CL Layout Line

CL Approach

2'-0"

Elev. +26.04
Begin approach @ Layout Line

112'-0"

171'-10 7/8"

197'-2 7/8"

48'-4"

229'-8 7/8"

N 00°00'00" E

N 90°00'00" W

Pedestrian trestle abutment, see Sht. 88

Pedestrian trestle, see Sht. 89

Pedestrian trestle support, see Sht. 87

Pedestrian gangway, see Sht. 93

Approach and Dock, see Sht. 8

Transfer bridge, see Sht. 31

Pedestrian gangway platform, see Sht. 55

Support float, see Sht. 41

Transfer bridge abutment, see Sht. 32

CL Bridge abutment & bridge bearing

Bridge bearing support, see Sht. 38

Floating Fender Dolphin, typ., see Sht. 81

Fender lock assembly, see Sht. 71

Float restraint, see Sht. 42

Fender lock assembly, see Sht. 71

Ramp, see Sht. 63

Float restraint, see Sht. 42

CL Floating Fender Dolphin

54'-5 3/16"

46'-8"

45'-0"

59'-0"

28'-0"

30'-0"

30'-0"

30'-0"

MV Stikine

GRAPHIC SCALE
0 10 20 40
(in feet)

PROPOSED TIDELAND CONVEYANCE ADL 107163 CITY OF COFFMAN COVE

Marine Layout

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CHECKED BY: B. Savikko
DRAWN BY: Staff

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DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
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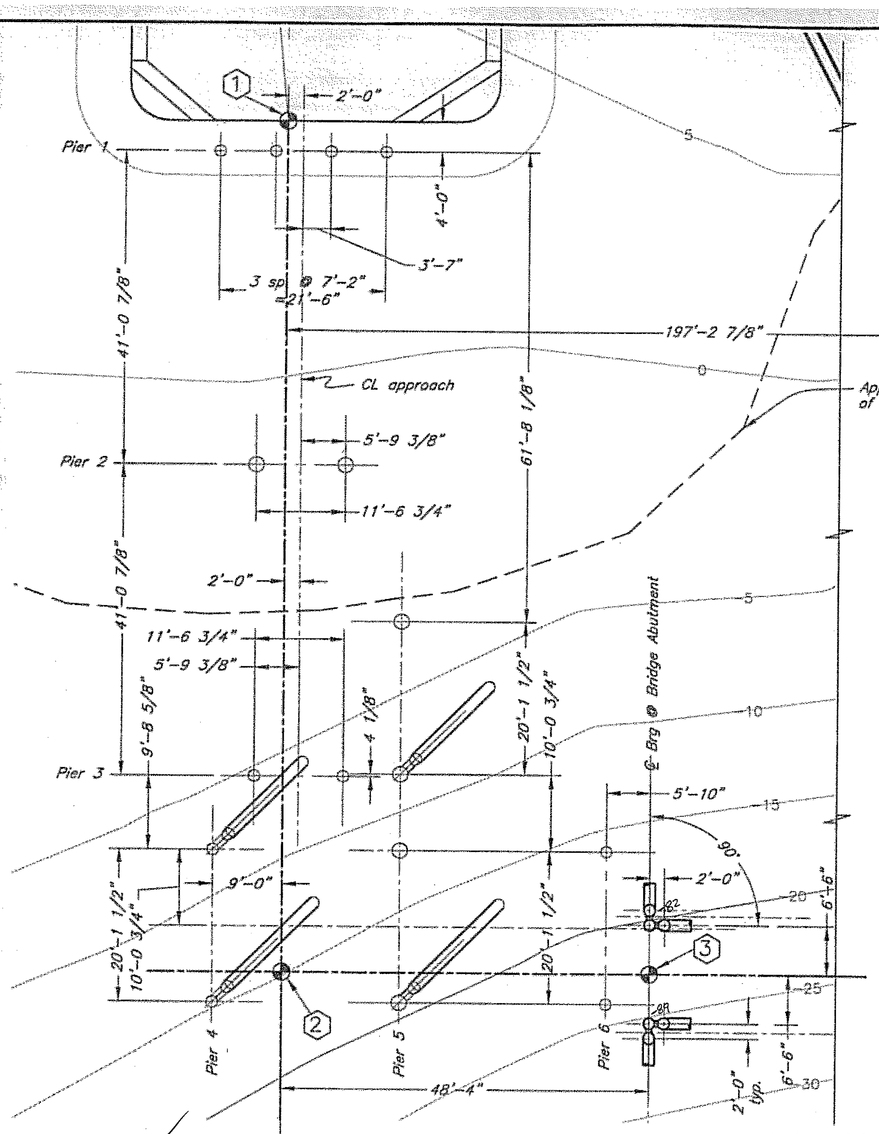
Coffman Cove Ferry Terminal
Project 67844

Marine Layout

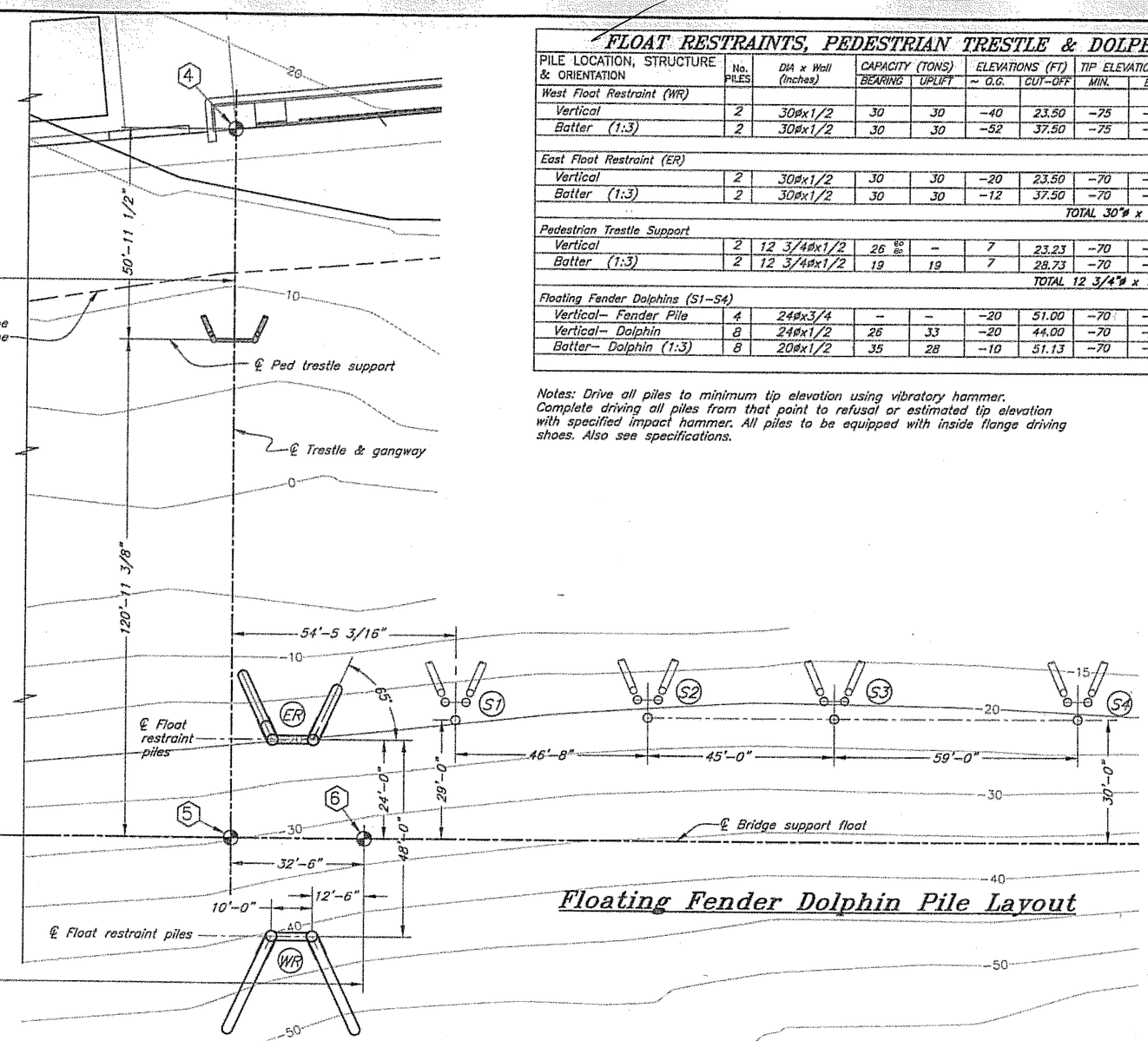
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REVISIONS NO.	DATE	DESCRIPTION	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			67844	2005	4	99

✓ 2/07



Approach and Dock Pile Layout



Pedestrian Trestle and Float Restraint Pile Layout

Floating Fender Dolphin Pile Layout

DOCK & APPROACH PILE TABLE

PILE LOCATION, STRUCTURE ORIENTATION & (pile tip)		No. PILES	DIA. (inches)	CAPACITY (TONS) BEARING	CAPACITY (TONS) UPLIFT	ELEVATIONS (FT) ~ O.G.	ELEVATIONS (FT) CUT-OFF	TIP ELEVATIONS MIN.	TIP ELEVATIONS EST.	TOTAL ESTIMATED LENGTH 18"ø	TOTAL ESTIMATED LENGTH 24"ø
Approach Pier 1	Vertical	4	18	50	–	3	21.94	–60	–75	388	–
Approach Pier 2	Vertical	2	24	50	–	–2	15.94	–60	–80	–	192
Approach Pier 3	Vertical	2	18	50	–	–7	15.94	–60	–80	192	–
Dock Pier 4	Vertical	2	18	50	–	–12	15.94	–65	–85	202	–
	Batter (1:3)	2	18	50	–	–12	23	–65	–85	227	–
Dock Pier 5	Vertical	4	24	50	–	–15	15.94	–65	–85	–	404
	Batter (1:3)	2	18	50	–	–12	23	–65	–85	227	–
Dock Pier 6	Vertical	2	18	50	–	–20	15.94	–75	–85	202	–
Bridge Abutment	Vertical	2	18	50	–	–15	17.60	–80	–90	215	–
	Batter (1:3)	4	18	50	–	–12	20.64	–80	–90	465	–
								Approach SUB-TOTAL		2118	596

Notes: Drive all piles to minimum tip elevation using vibratory hammer. Complete driving all piles from that point to refusal or estimated tip elevation with specified impact hammer. All piles are 1/2" wall thickness. All piles to be equipped with inside flange driving shoes. Also see specifications.

FLOAT RESTRAINTS, PEDESTRIAN TRESTLE & DOLPHINS

PILE LOCATION, STRUCTURE & ORIENTATION	No. PILES	DIA x Wall (inches)	CAPACITY (TONS) BEARING	CAPACITY (TONS) UPLIFT	ELEVATIONS (FT) ~ O.G.	ELEVATIONS (FT) CUT-OFF	TIP ELEVATIONS MIN.	TIP ELEVATIONS EST.	TOTAL ESTIMATED LENGTH
West Float Restraint (WR)									
Vertical	2	30øx1/2	30	30	–40	23.50	–75	–95	238
Batter (1:3)	2	30øx1/2	30	30	–52	37.50	–75	–95	280
East Float Restraint (ER)									
Vertical	2	30øx1/2	30	30	–20	23.50	–70	–90	228
Batter (1:3)	2	30øx1/2	30	30	–12	37.50	–70	–90	268
								TOTAL 30"ø x 1/2"	1014
Pedestrian Trestle Support									
Vertical	2	12 3/4øx1/2	26 ℔	–	7	23.23	–70	–80	206
Batter (1:3)	2	12 3/4øx1/2	19	19	7	28.73	–70	–80	230
								TOTAL 12 3/4"ø x 1/2"	436
Floating Fender Dolphins (S1–S4)									
Vertical– Fender Pile	4	24øx3/4	–	–	–20	51.00	–70	–85	544
Vertical– Dolphin	8	24øx1/2	26	33	–20	44.00	–70	–90	1072
Batter– Dolphin (1:3)	8	20øx1/2	35	28	–10	51.13	–70	–90	1190

Notes: Drive all piles to minimum tip elevation using vibratory hammer. Complete driving all piles from that point to refusal or estimated tip elevation with specified impact hammer. All piles to be equipped with inside flange driving shoes. Also see specifications.

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

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CHECKED BY: B. Savikko
DRAWN BY: Staff

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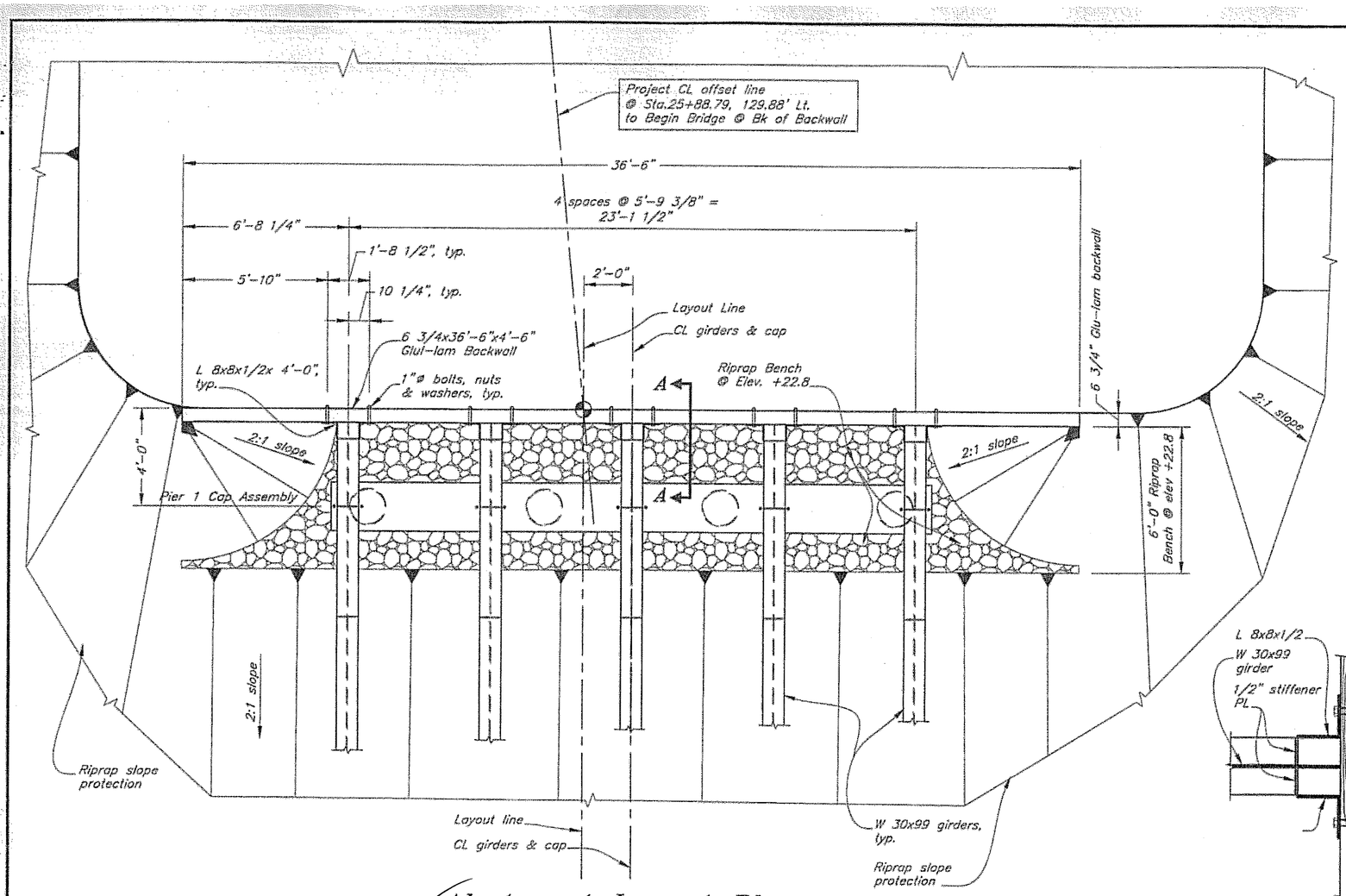
Coffman Cove Ferry Terminal
Project 67844

Pile Layout

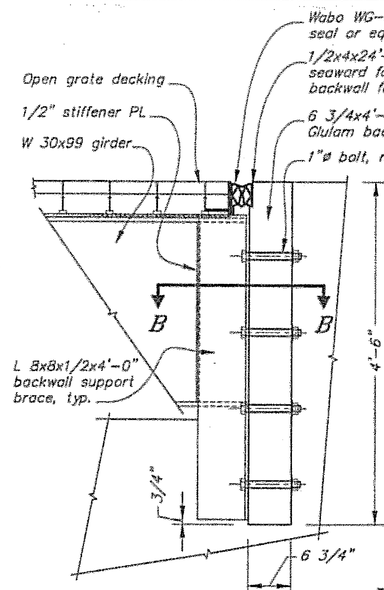
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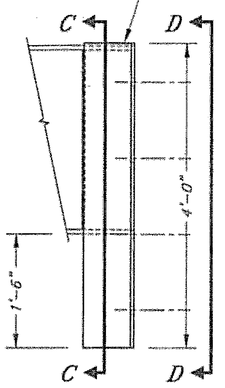
✓ MB 2/07



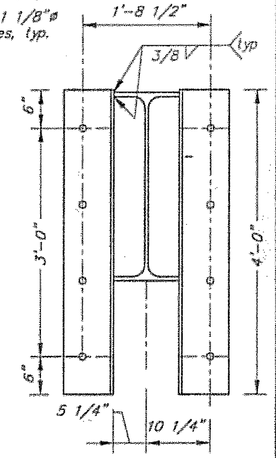
Abutment Layout Plan
@ Pier 1 Cap Assembly



Section A-A



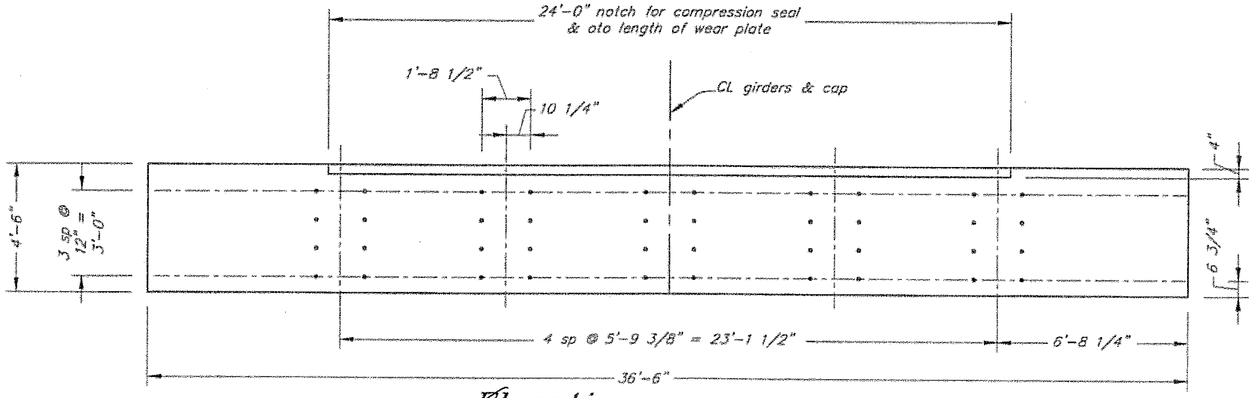
Detail
Backwall Support



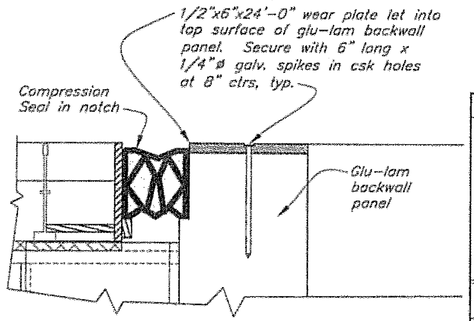
View D-D

Section B-B

Section C-C
& Exploded Views



Elevation
Abutment Backwall



Abutment -
Wear Plate Detail

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CHECKED BY: J. Beedle
DRAWN BY: J. Scott/T. Mores

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
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S.E. REGION DESIGN & ENGINEERING SERVICES DIVISION

STATE OF ALASKA 4900 John T. Scott CE-4755 REGISTERED PROFESSIONAL ENGINEER
3-10-05

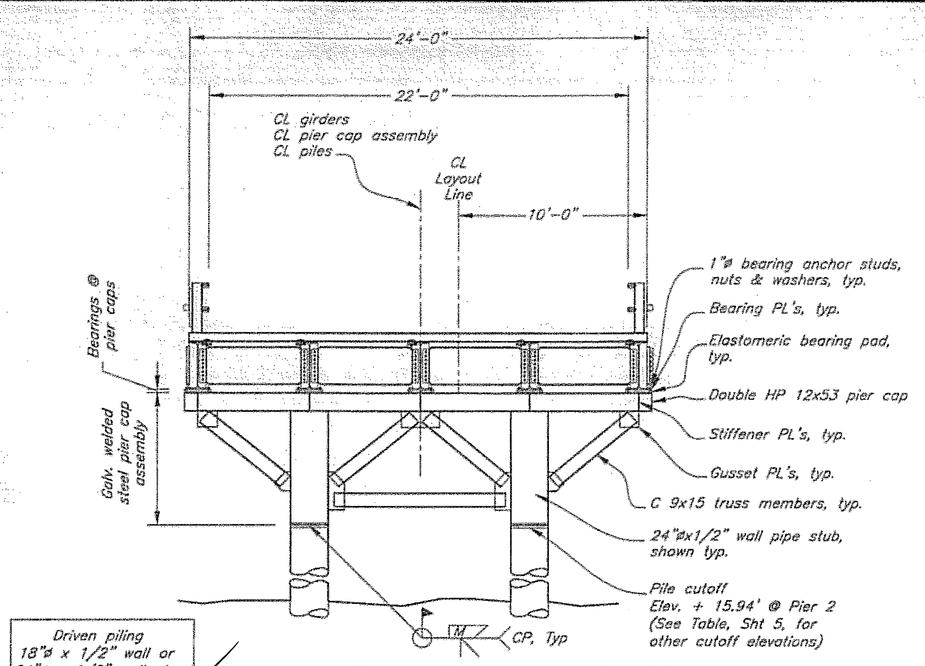
Coffman Cove Ferry Terminal
Project 67844

Abutment Area Layout

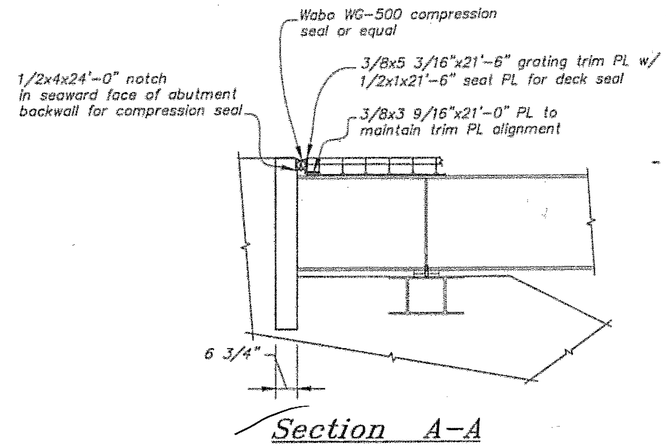
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REVISIONS NO.	DATE	DESCRIPTION	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
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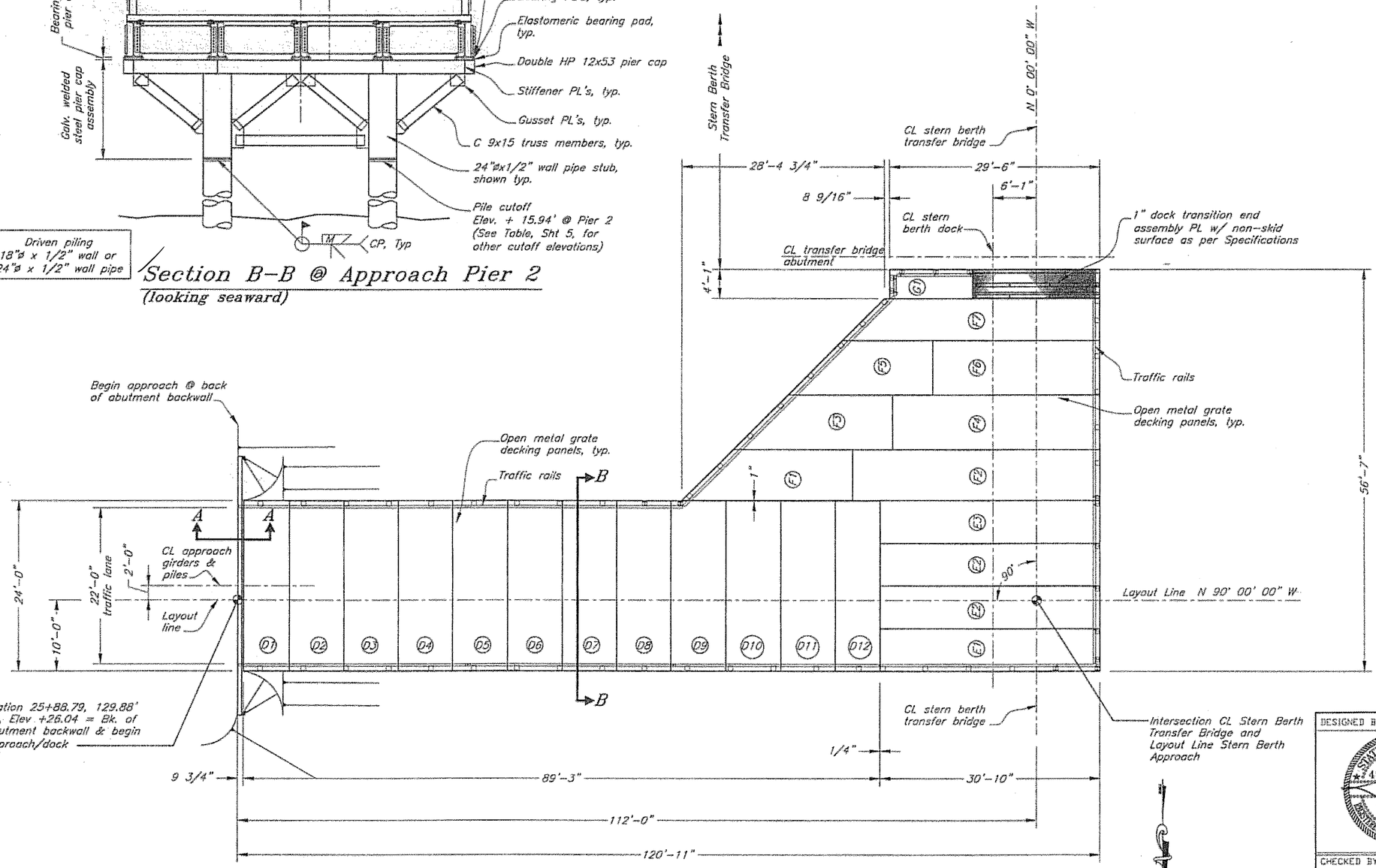
J GB 2/07



Section B-B @ Approach Pier 2
(looking seaward)



Section A-A



Layout Plan
Approach & Dock

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DESIGNED BY: J. Scott
DRAWN BY: J. Scott, T. Mares
CHECKED BY: J. Beedle

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
S.E. REGION DESIGN & ENGINEERING SERVICES DIVISION

STATE OF ALASKA 4911 JOHN T. SCOTT CE-4755 REGISTERED PROFESSIONAL ENGINEER 3-10-05

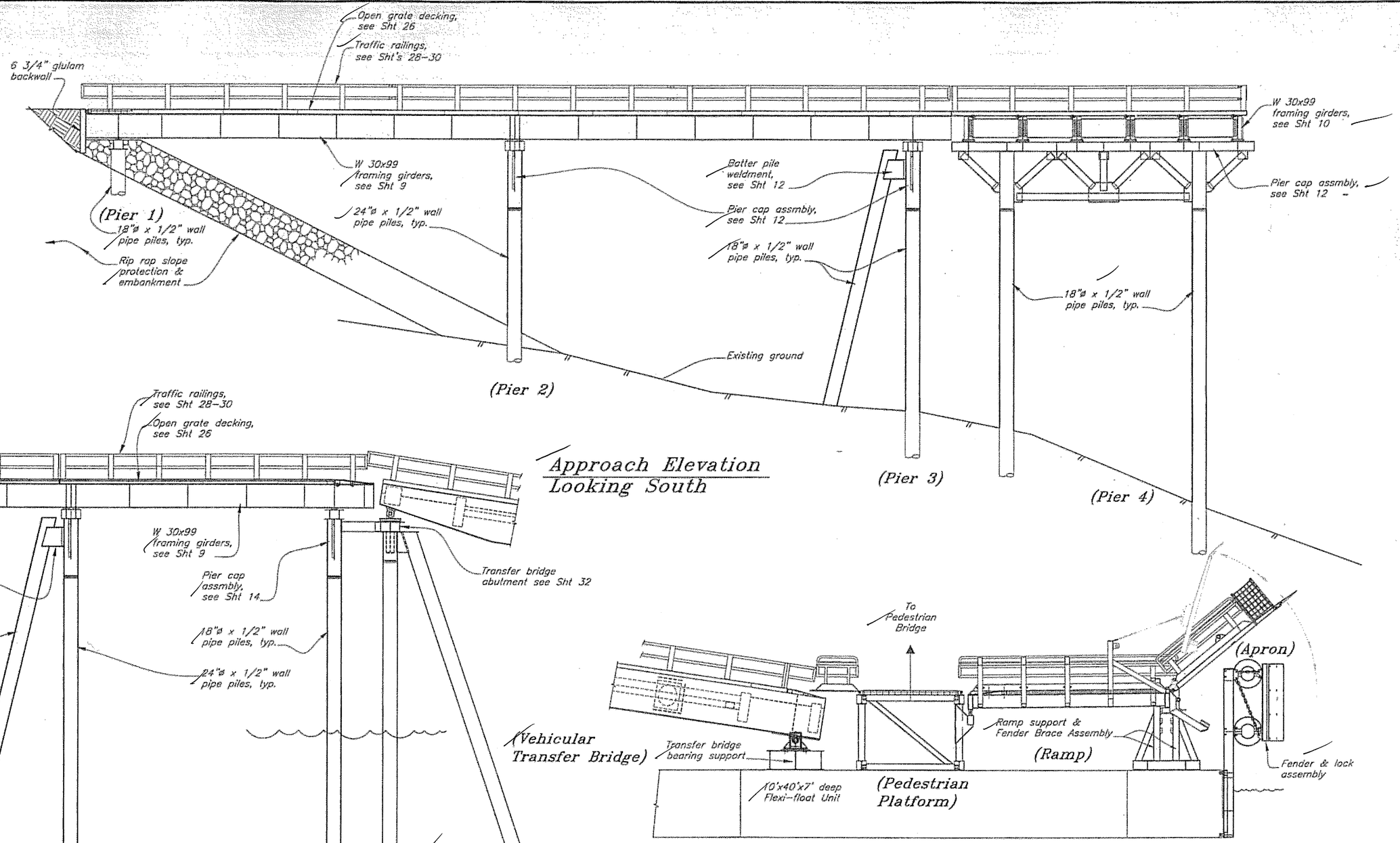
Coffman Cove Ferry Terminal
Project 67844

Approach & Dock Plan

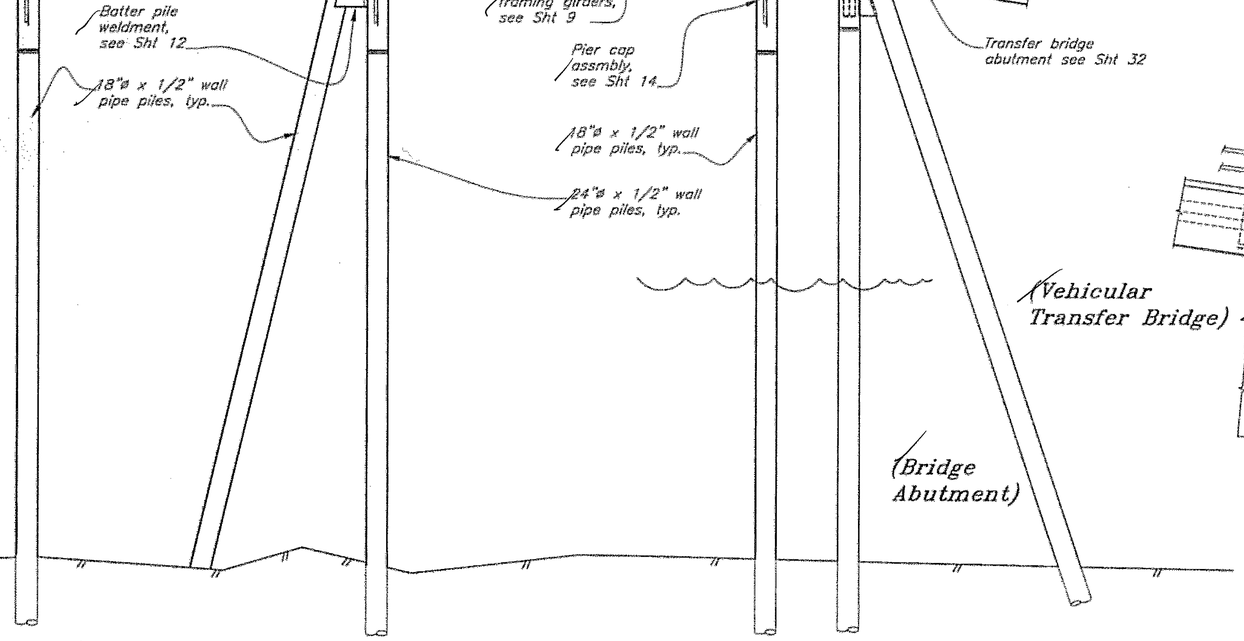
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REVISIONS NO.	DATE	DESCRIPTION	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			67844	2005	7	99

✓ GMB 2/07



Approach Elevation
Looking South



Elevation Looking East
Dock, Bridge, Ramp & Apron

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

DESIGNED BY: J. Scott
CHECKED BY: J. Beedle
DRAWN BY: J. Scott/T. Mares

STATE OF ALASKA
49th
John I. Scott
CE-4755
REGISTERED PROFESSIONAL ENGINEER
3-10-05

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
S.E. REGION DESIGN & ENGINEERING SERVICES DIVISION

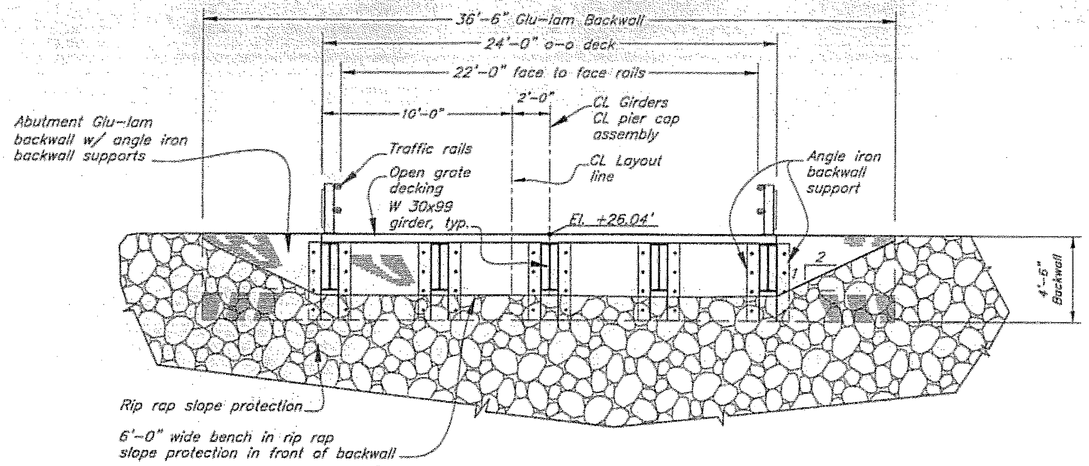
Coffman Cove Ferry Terminal
Project 67844

Approach & Dock Elevation

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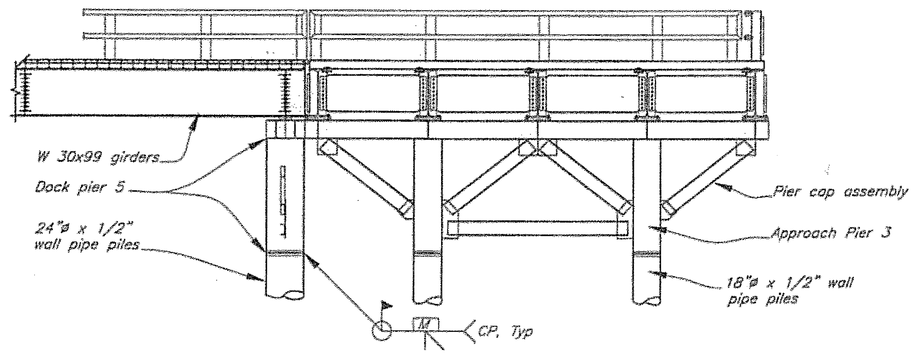
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✓ GB 2/07



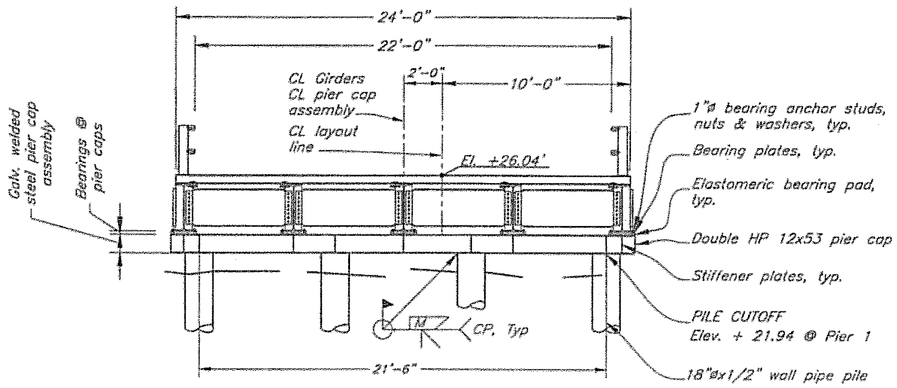
Typical Section @ Abutment

(looking East)



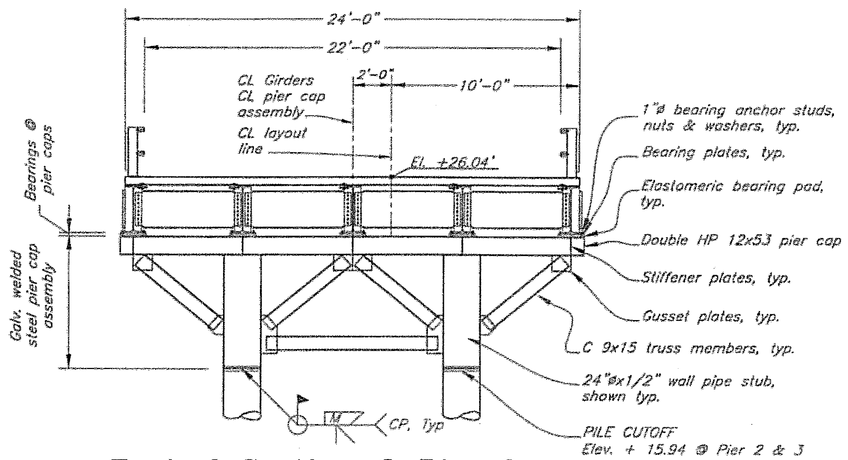
Typical Section @ Pier 3

(looking West)



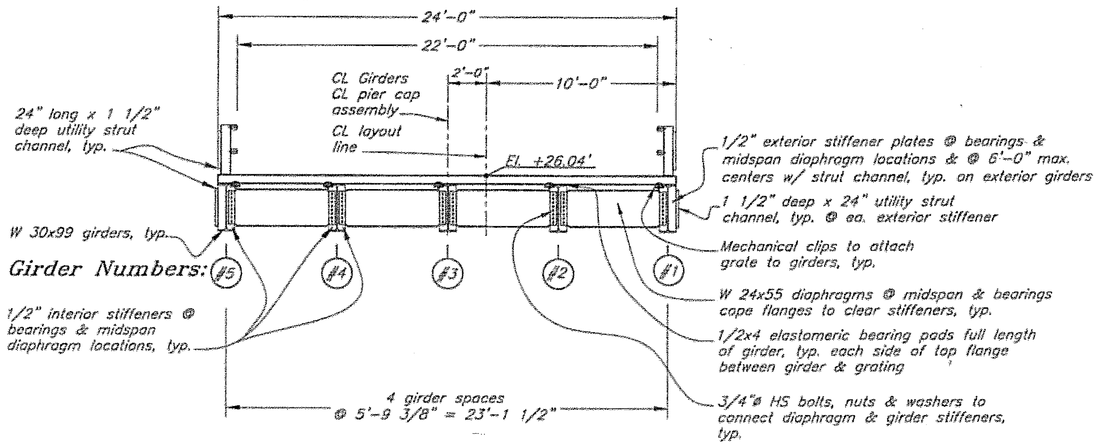
Typical Section @ Pier 1

(looking West)



Typical Section @ Pier 2

(looking West)



Typical Section @ Midspan

(looking West)

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

DESIGNED BY: J. Scott

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
& PUBLIC FACILITIES
S.E. REGION DESIGN & ENGINEERING SERVICES DIVISION

STATE OF ALASKA 49th John T. Scott CE-4755 REGISTERED PROFESSIONAL ENGINEER 3/0/05

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

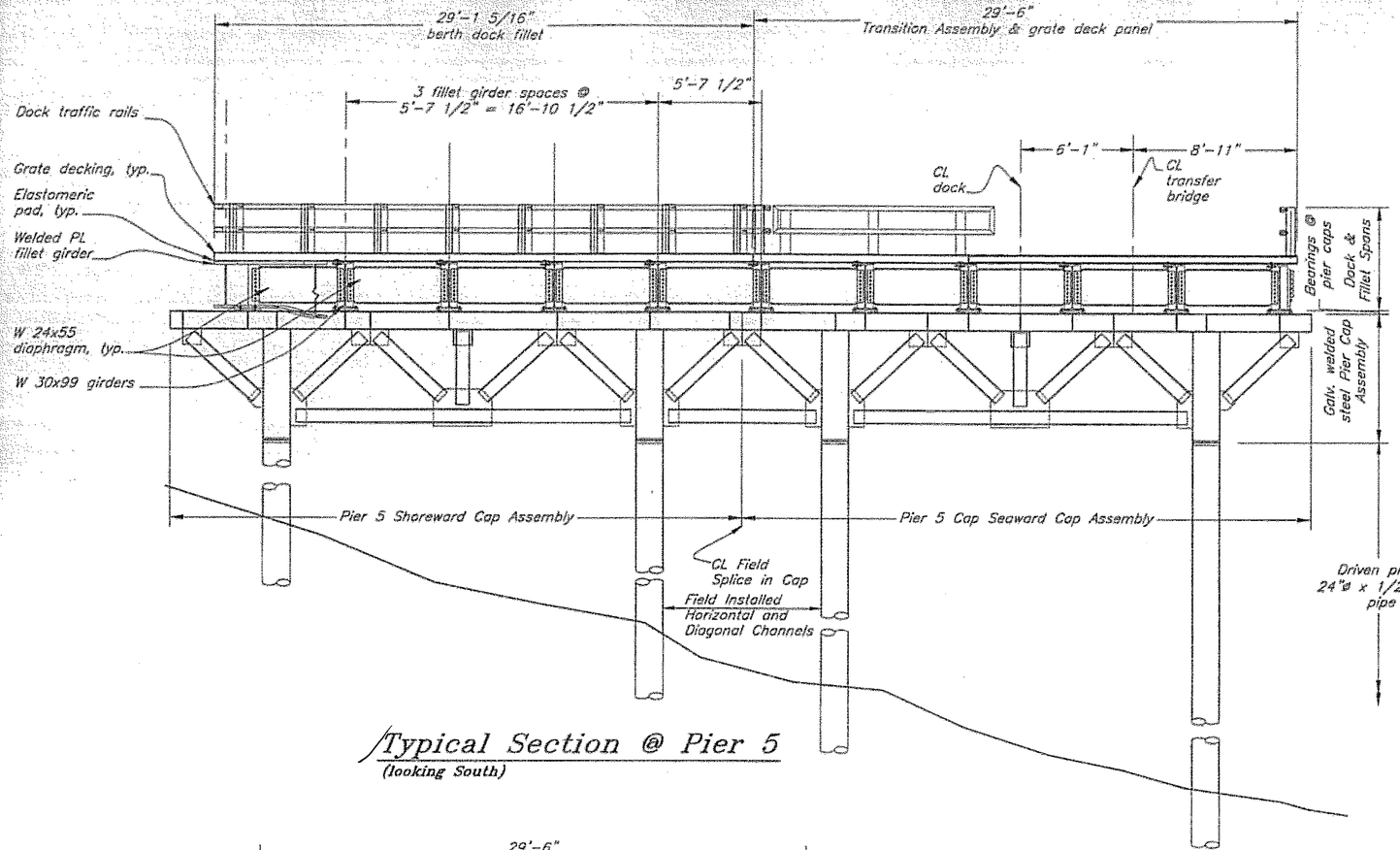
Coffman Cove Ferry Terminal
Project 67844

Approach Typical Sections

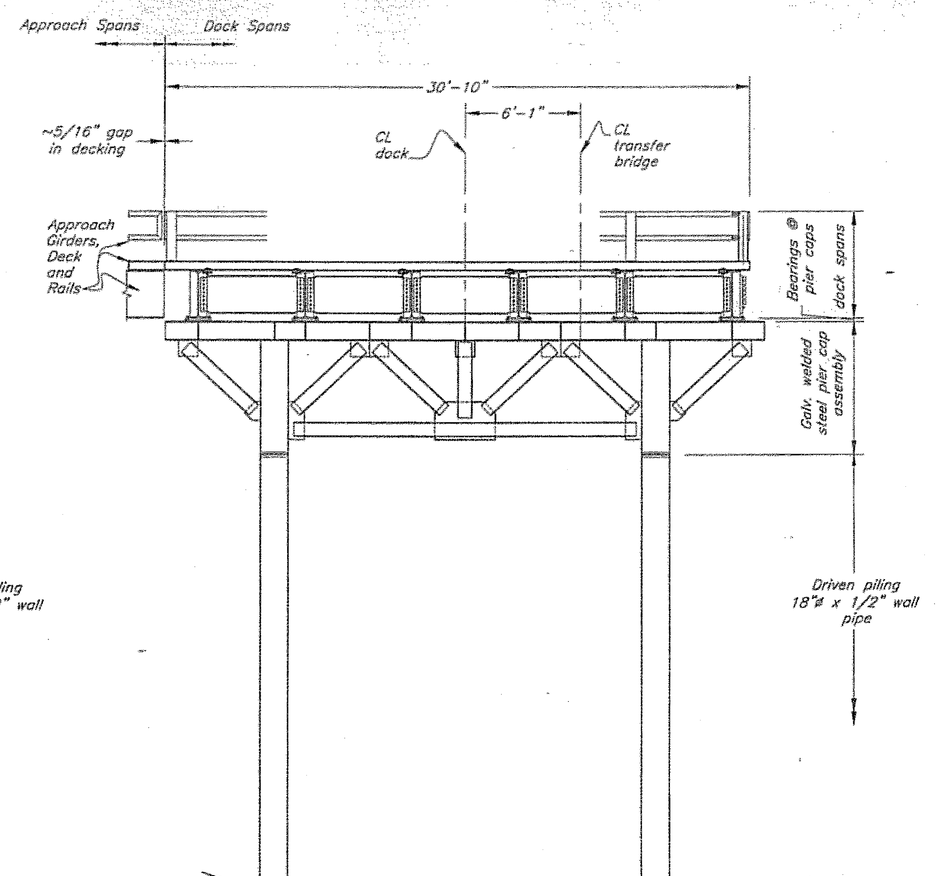
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REVISIONS NO.	DATE	DESCRIPTION	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
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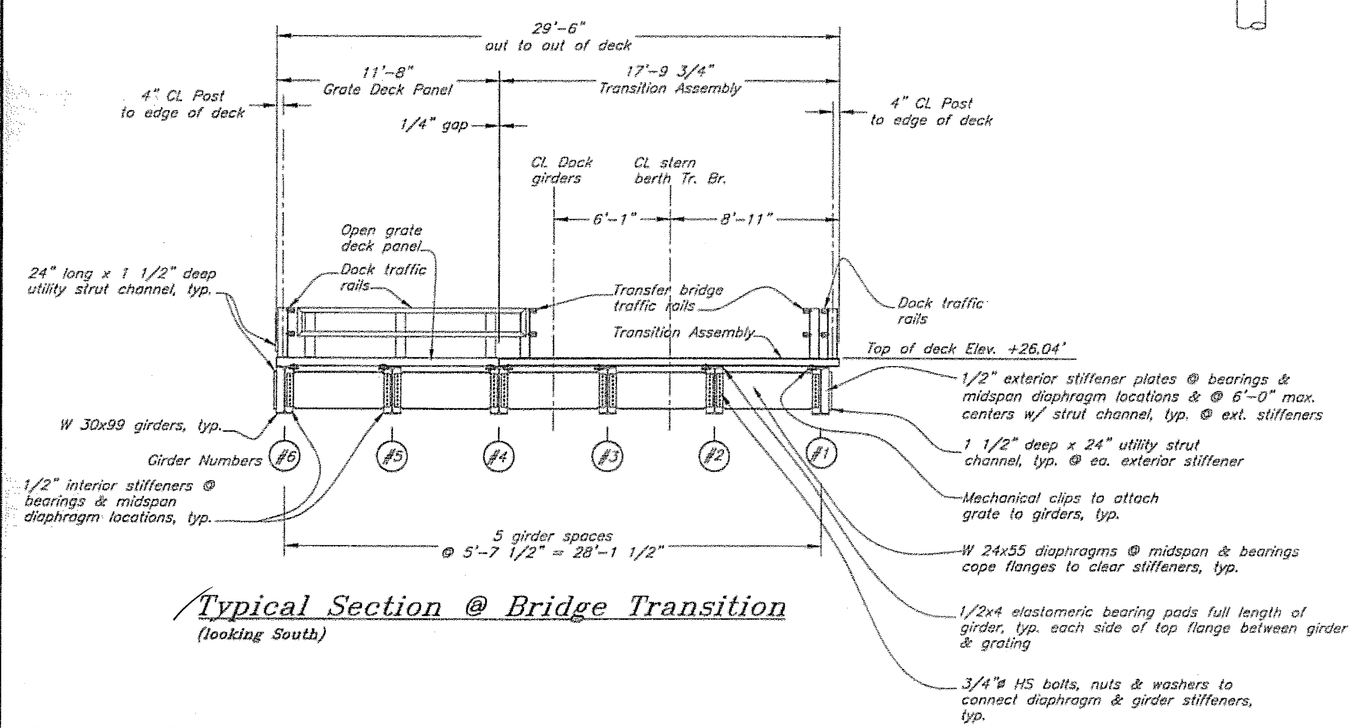
✓ MB 2/07



Typical Section @ Pier 5
(looking South)



Typical Section @ Pier 4
(looking South)



Typical Section @ Bridge Transition
(looking South)

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DESIGNED BY: J. Scott
DRAWN BY: J. Scott, T. Mores
CHECKED BY: J. Beedle

STATE OF ALASKA
John T. Scott
CE-4755
49th
PROFESSIONAL ENGINEER
3-10-05

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
S.E. REGION DESIGN & ENGINEERING SERVICES DIVISION

Coffman Cove Ferry Terminal
Project 67844

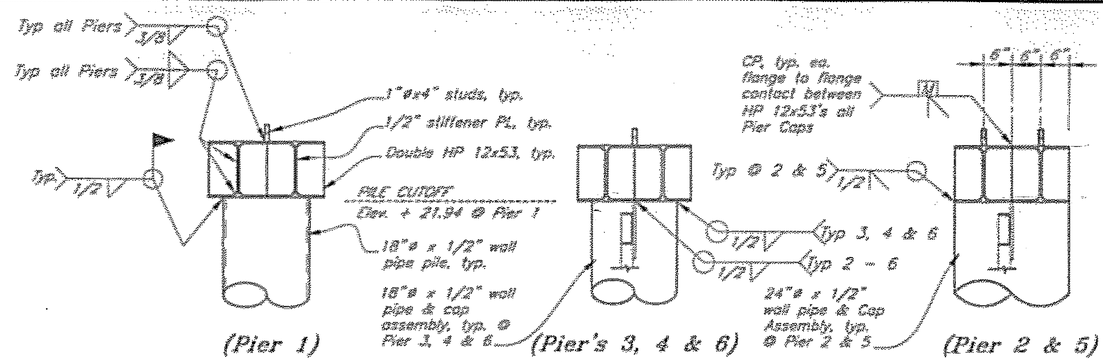
Dock
Typical Sections

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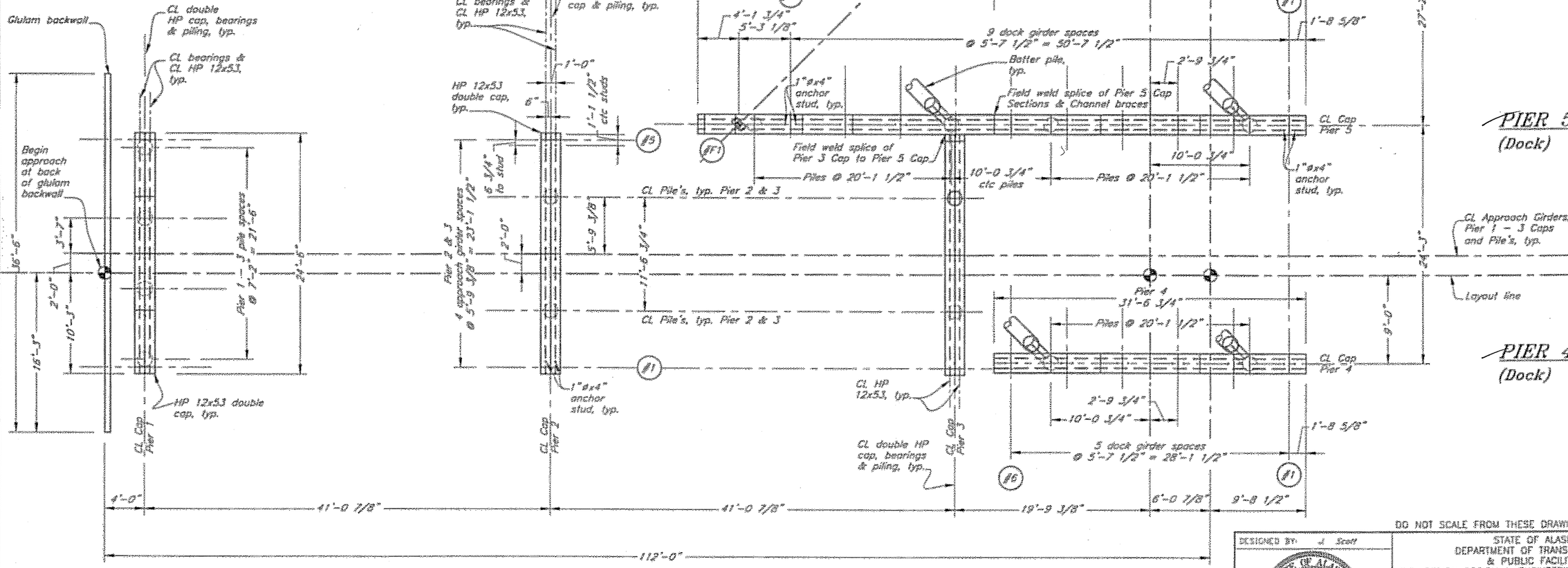
PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
67844	2005	10	99

J MB 2/07



(Pier 1) (Pier's 3, 4 & 6) (Pier 2 & 5)

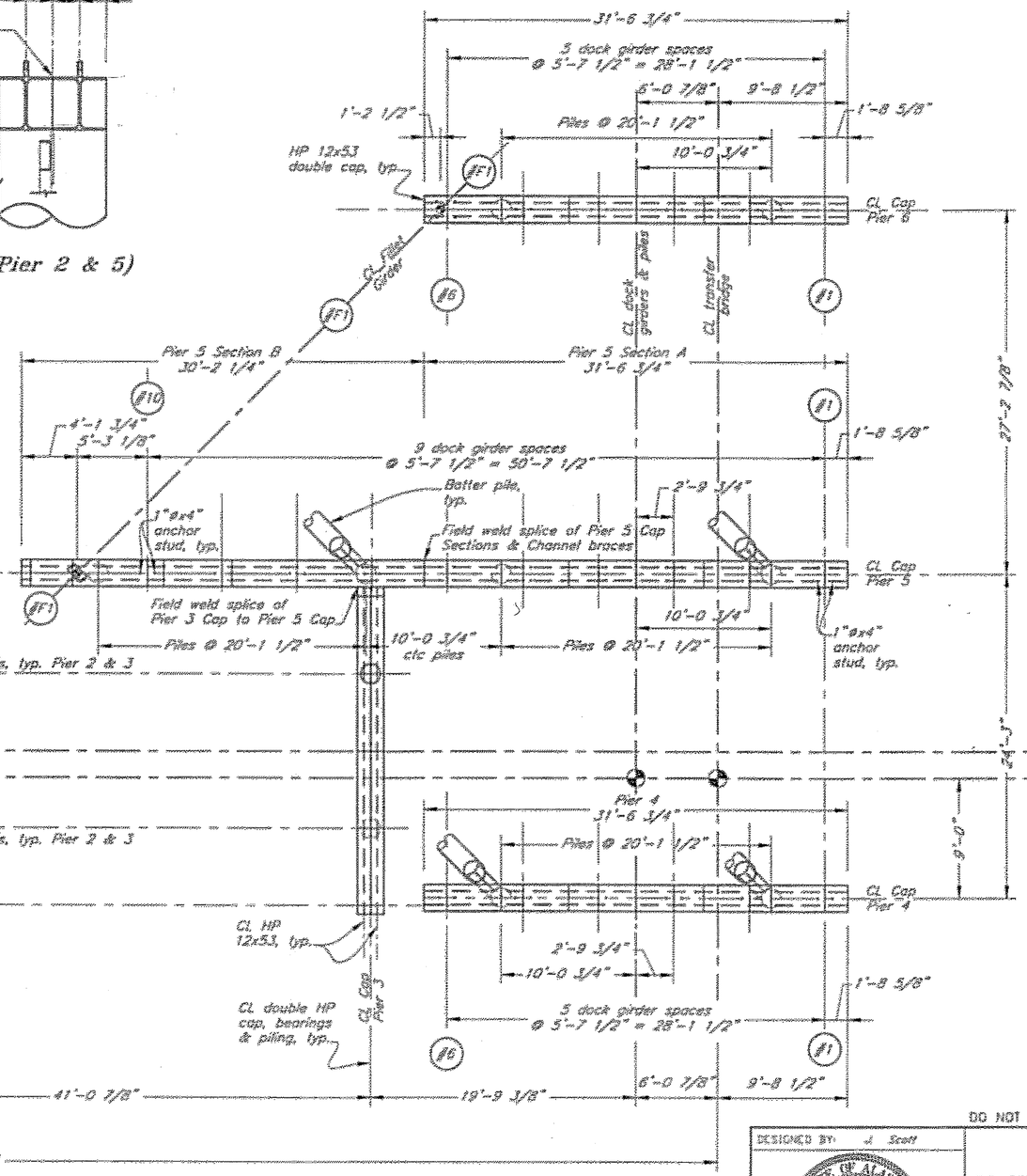
Cap Section Assemblies



PIER 1 (Approach)

PIER 2 (Approach)

PIER 3 (Approach)



PIER 6 (Dock)

PIER 5 (Dock)

PIER 4 (Dock)

Layout Plan
Approach & Dock Pier Cap

(#x) = Girder Number

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

DESIGNED BY: J. Scott
DRAWN BY: J. Scott, T. Mores
CHECKED BY: J. Beedle
PATH: O:\Pw\67844\MF\Planset\11 Pier Cap layout Approach and Dock.dgn
PLOT: PSPACE 1=1
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STATE OF ALASKA
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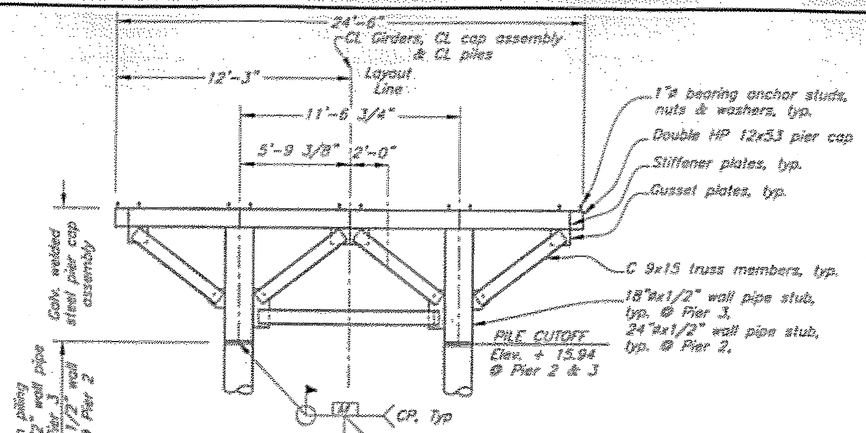
Coffman Cove Ferry Terminal
Project 67844

Approach & Dock Pier Cap Layouts

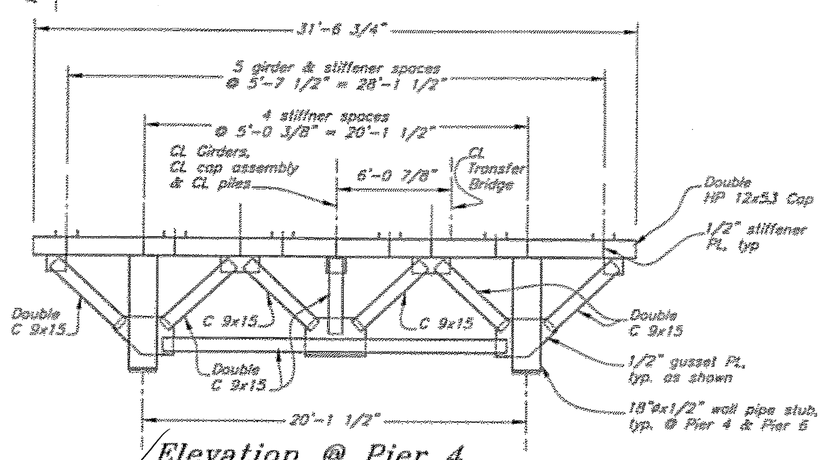
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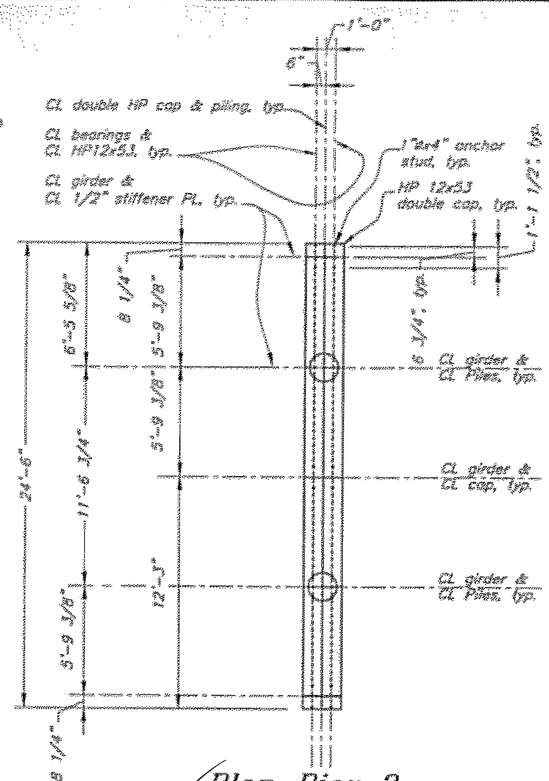
✓ GD 2/07



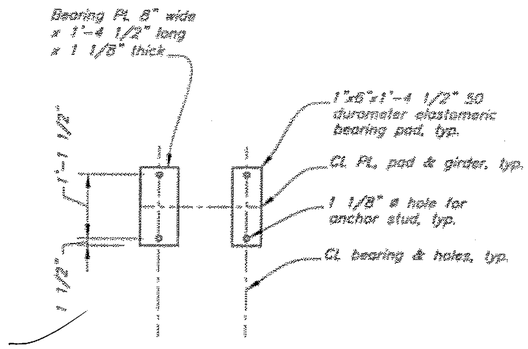
Elevation @ Pier 3
(looking seaward – Pier 2 Similar except Pile ø)



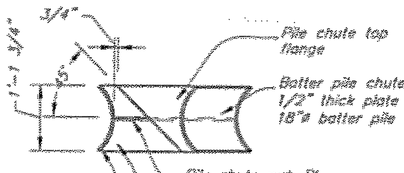
Elevation @ Pier 4
(looking South – Pier 6 Similar Fillet girder brgs)



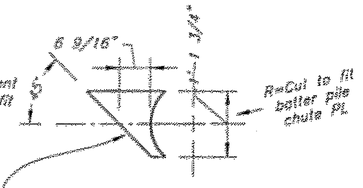
Plan Pier 2
(Pier 3 similar, except single row of studs @ CL cap)



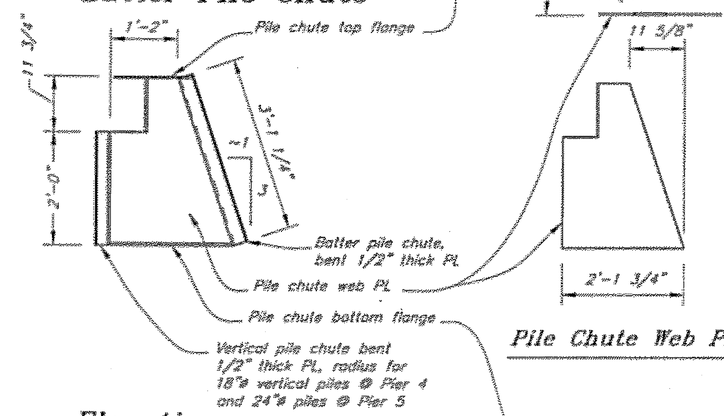
Bearing PL & Pad



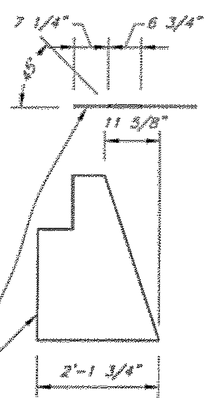
Plan
Batter Pile Chute



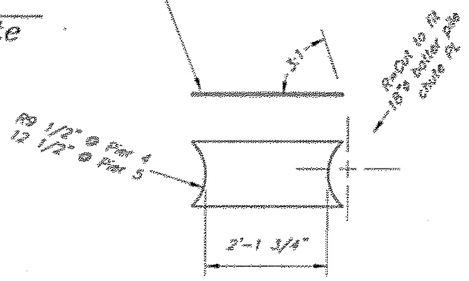
Pile Chute Top Flange



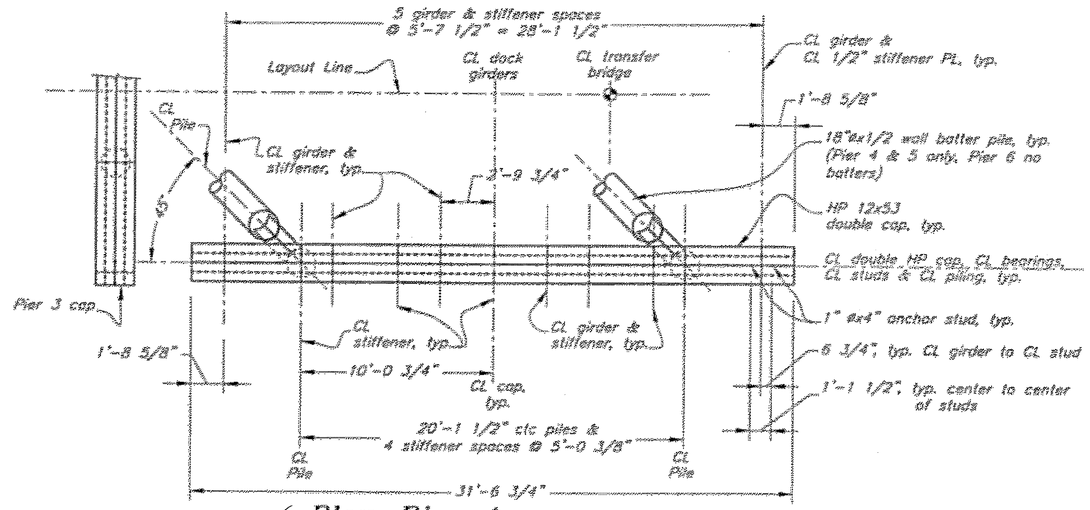
Elevation
Batter Pile Chute



Pile Chute Web PL



Pile Chute Bottom Flange



Plan Pier 4
(Pier 6 similar, except fillet girder bearing on Pier 6 & no batter piles)

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DESIGNED BY: J. Scott
DRAWN BY: J. Scott, T. Moren
CHECKED BY: J. Beedle

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
S.E. REGION DESIGN & ENGINEERING SERVICES DIVISION

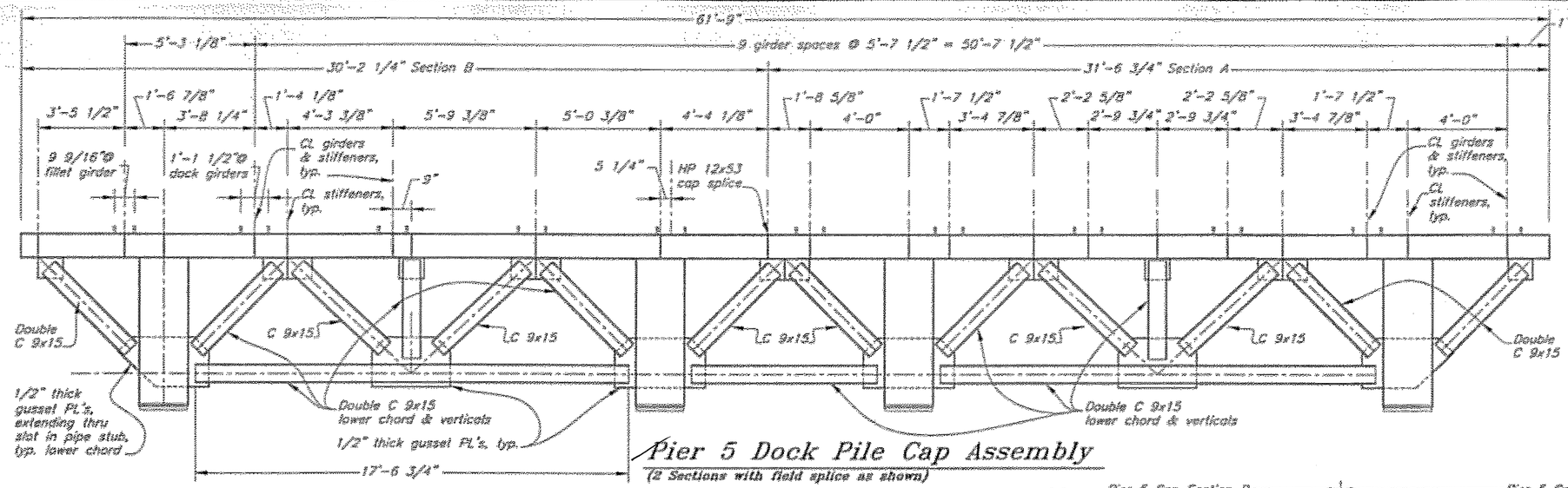
Coffman Cove Ferry Terminal
Project 67844

Pier Cap Details

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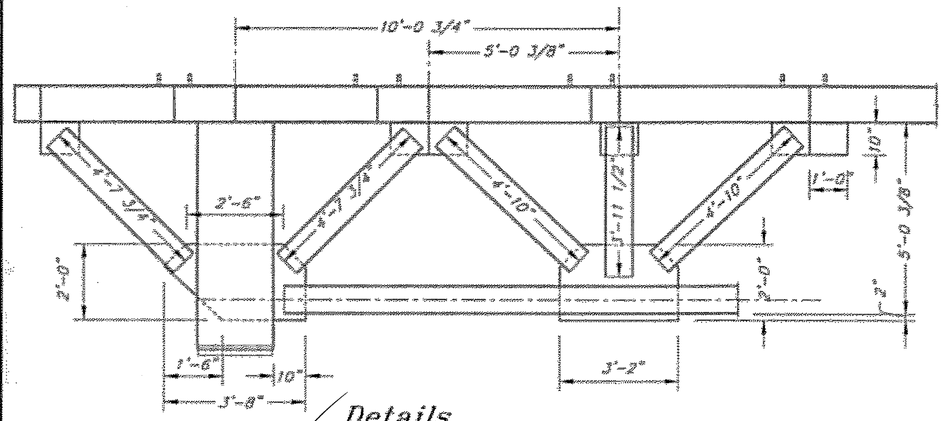
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2/07



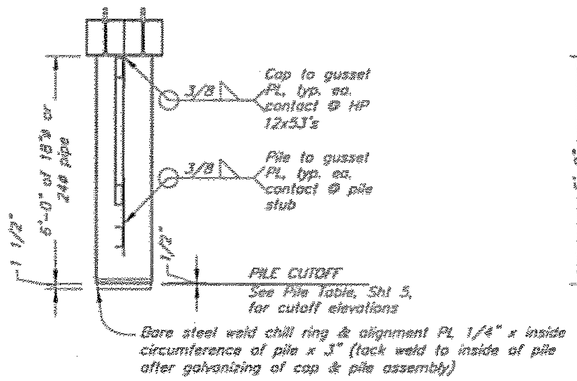
Pier 5 Dock Pile Cap Assembly

(2 Sections with field splice as shown)

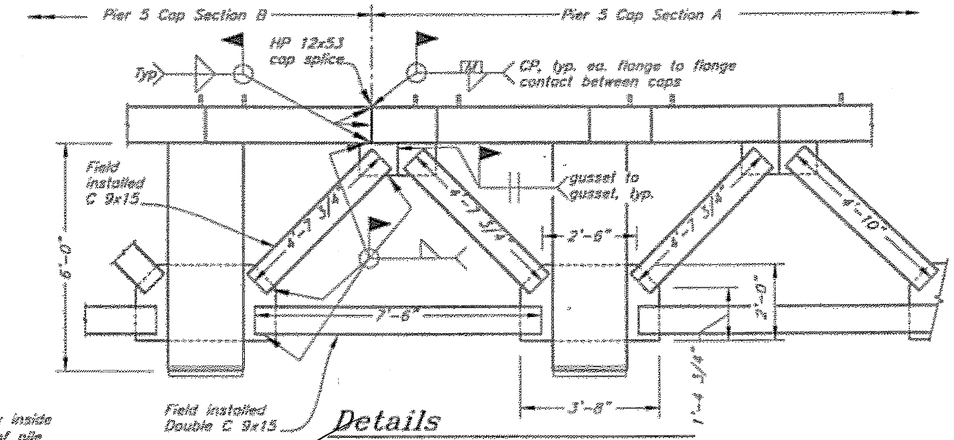


Details
Piers 4 –6 Dock Pile Cap

(Pier 5 cap shown, Pier 4 & 6 are similar except no splice)

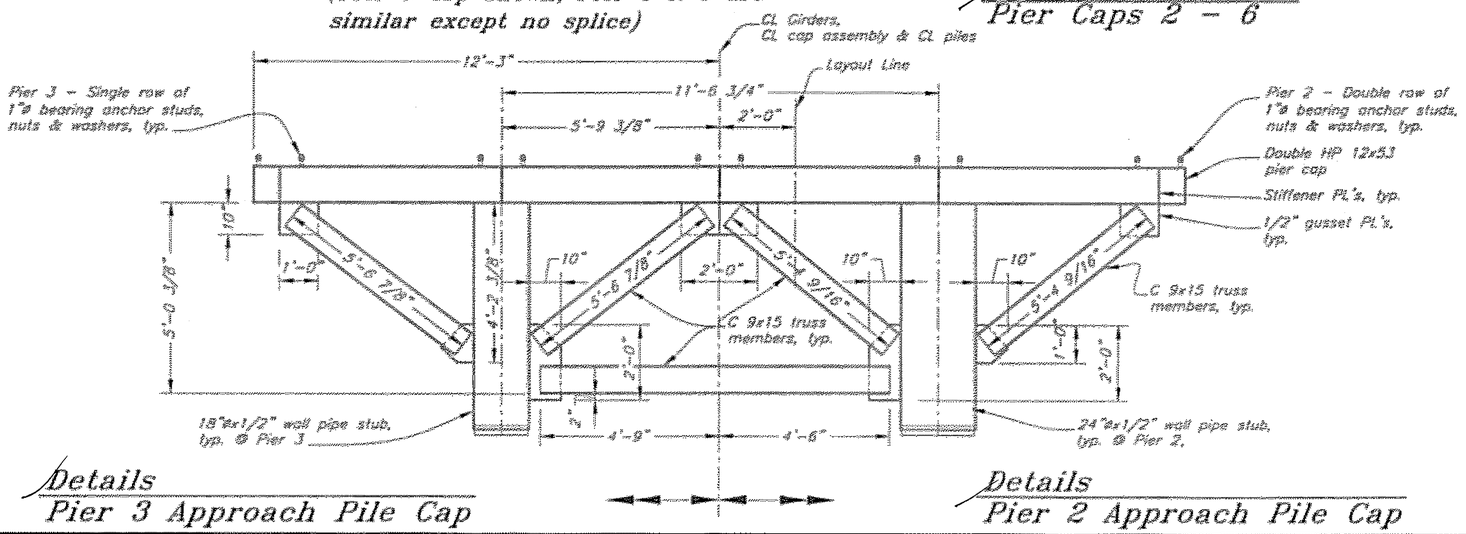


Typical Section
Pier Caps 2 – 6



Details
Pier 5 Dock Pile Cap

(Pier 5 cap shown @ field splice)



Details
Pier 3 Approach Pile Cap

Details
Pier 2 Approach Pile Cap

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DESIGNED BY: J. Scott

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
S.E. REGION DESIGN & ENGINEERING SERVICES DIVISION

STATE OF ALASKA 49TH — John T. Scott CE-4755 REGISTERED PROFESSIONAL ENGINEER — 3-10-05

CHECKED BY: J. Beedle

DRAWN BY: J. Scott, F. Mares

PATH: G:\Pw\67844\all\Planset\13 Pier Cap Details 2.dwg

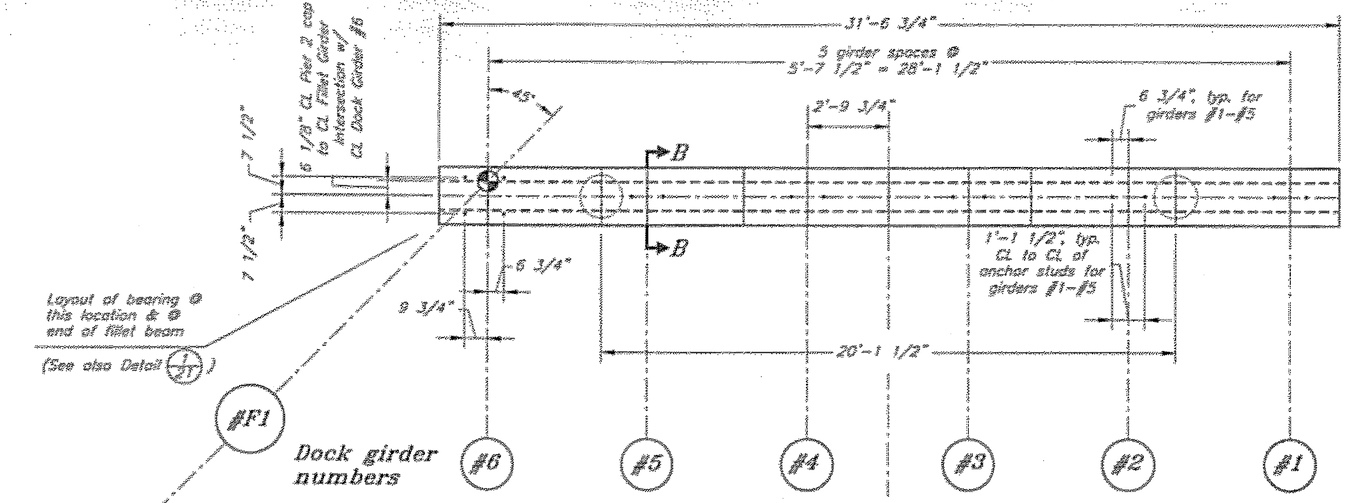
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Coffman Cove Ferry Terminal
Project 67844

Pier Cap Details 2

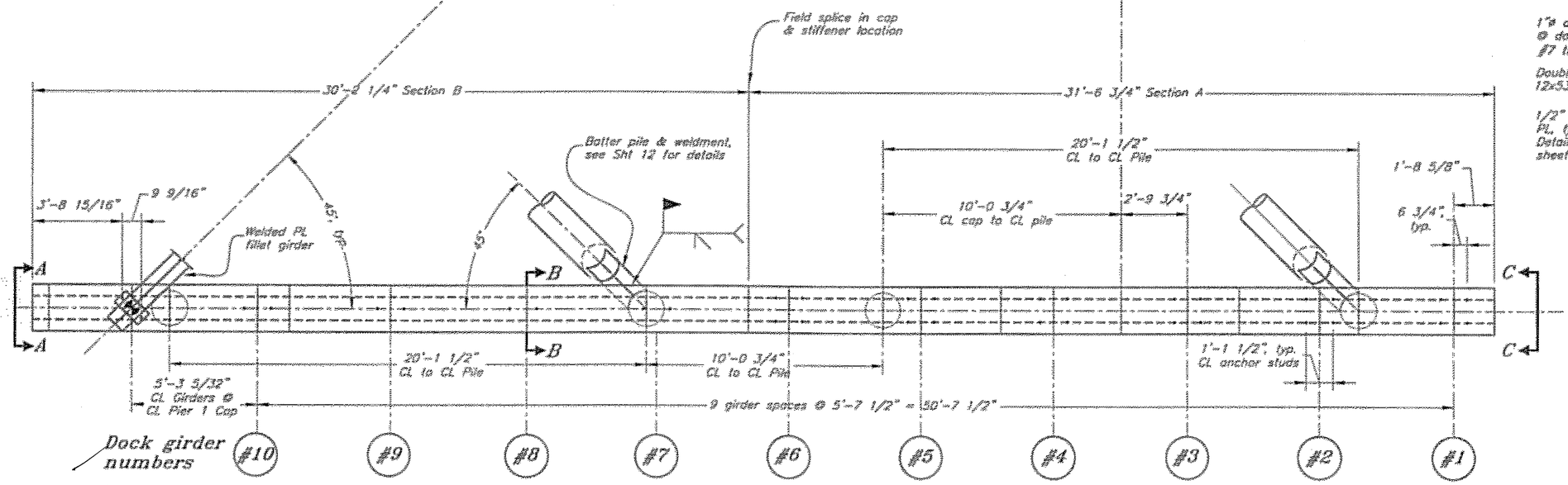
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V 9/10 2/07

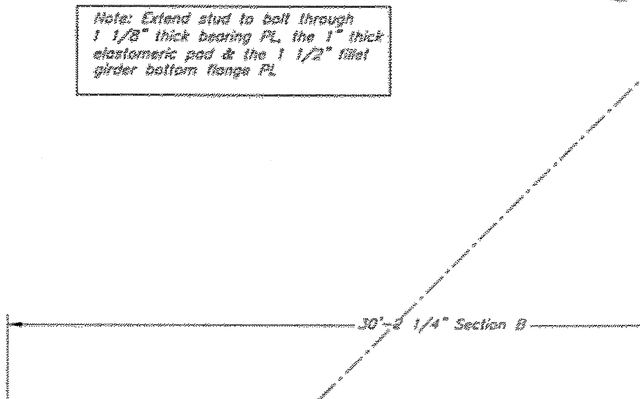


Note: Extend stud to bolt through 1 1/8" thick bearing PL, the 1" thick elastomeric pad & the 1 1/2" fillet girder bottom flange PL

Pier 6 Cap

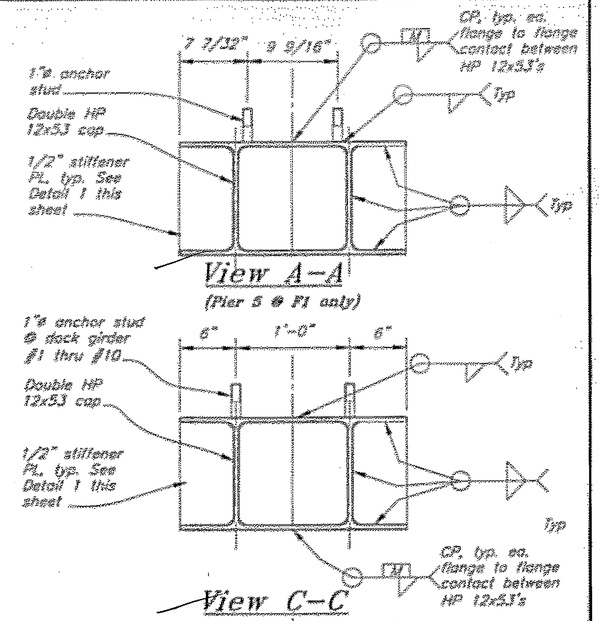


Pier 5 Cap



Bearing PL & Pad

(except at Girder F1)



Detail 1

1/2" Stiffener PL

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DESIGNED BY: J. Scott

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
S.E. REGION DESIGN & ENGINEERING SERVICES DIVISION

STATE OF ALASKA 40TH PROFESSIONAL ENGINEER John L. Scott CE-4755 3-10-05

CHECKED BY: J. Beedle

DRAWN BY: J. Scott, T. Mores

Coffman Cove Ferry Terminal
Project 67844

Pier Cap Details 3

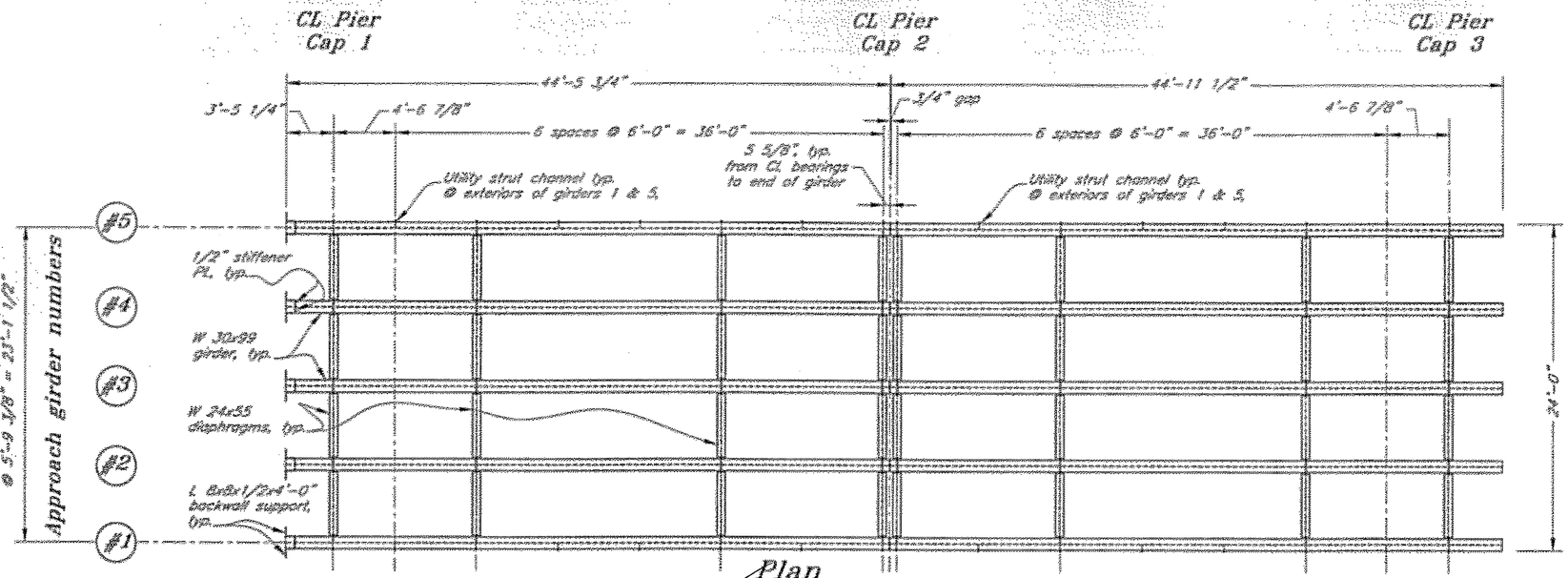
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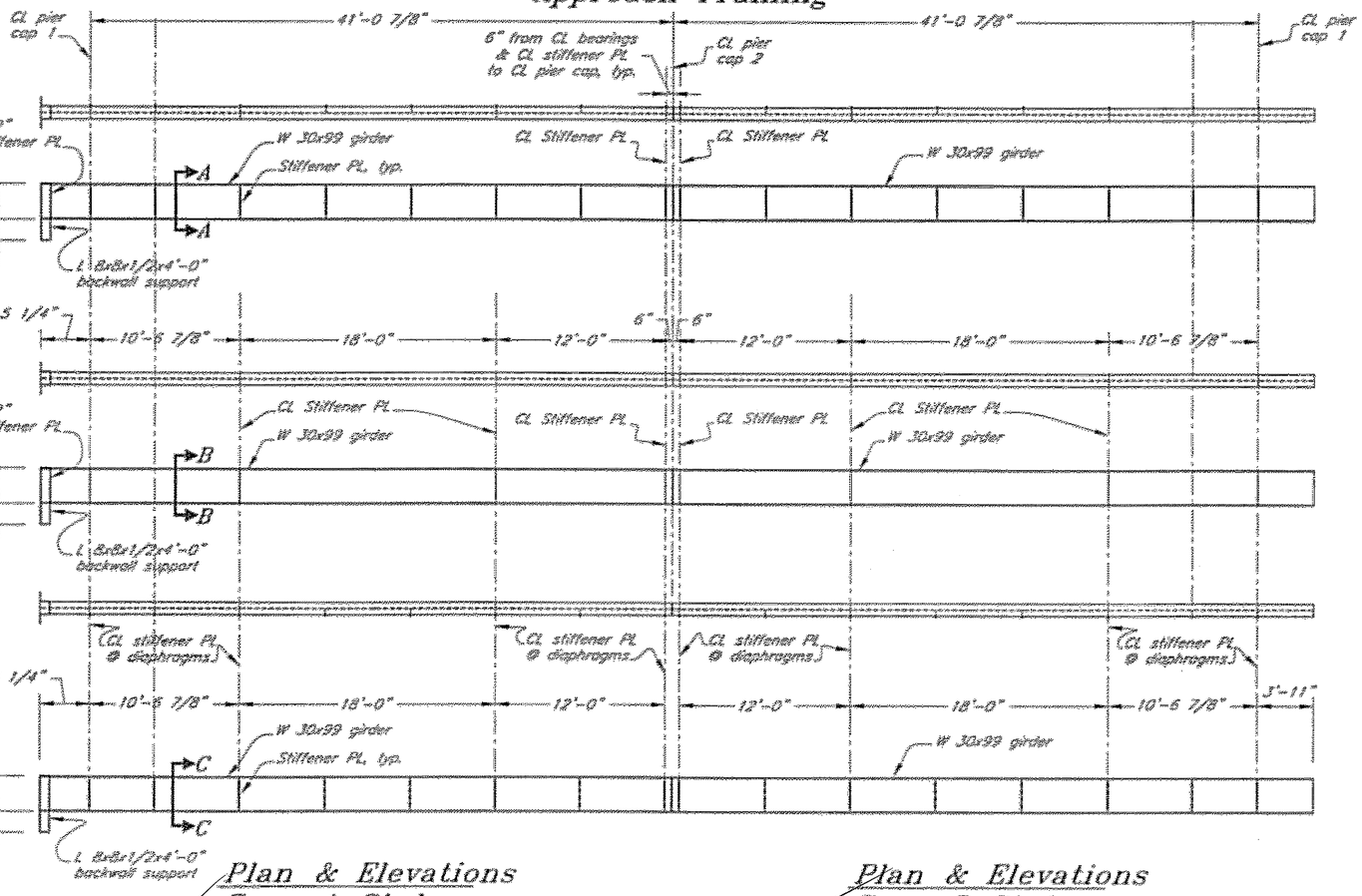
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J GB 2/07

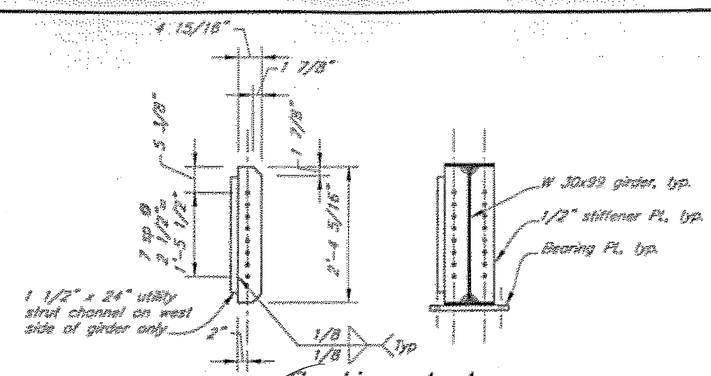


Plan
Approach Framing

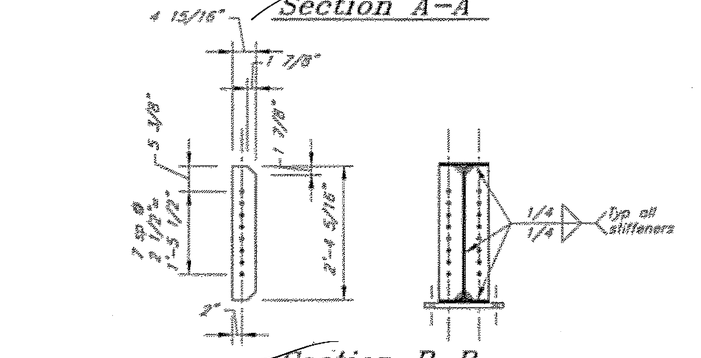


Plan & Elevations
Span 1 Girders

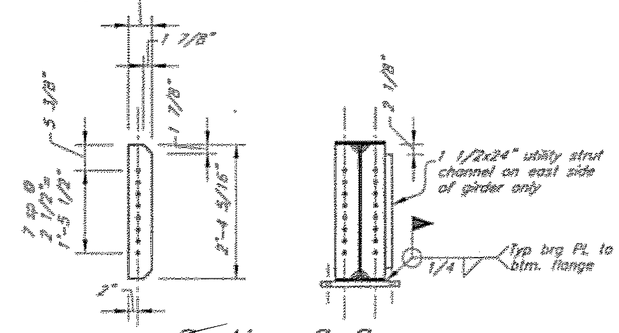
Plan & Elevations
Span 2 Girders



Section A–A



Section B–B



Section C–C

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DESIGNED BY: J. Scott
DRAWN BY: J. Scott, E. Mora
CHECKED BY: J. Brodie
PATH: G:\Pw\67844\MP\Plansel\15 Approach Framing mult layouts.dwg
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Wed, 16/Feb/05 11:11AM

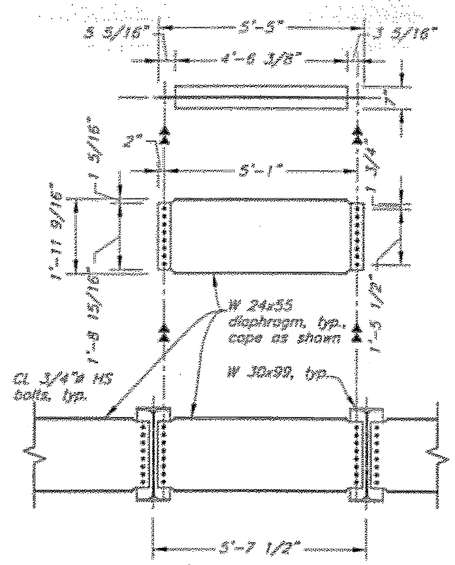
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
S.E. REGION DESIGN & ENGINEERING SERVICES DIVISION

Coffman Cove Ferry Terminal
Project 67844

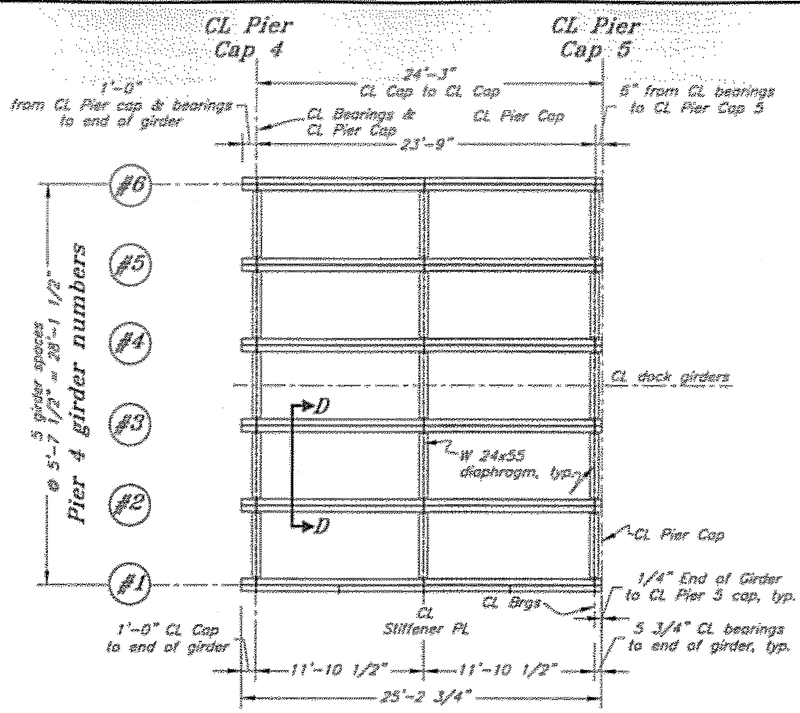
Approach Spans 1 & 2 Framing

REVISIONS NO.	DATE	DESCRIPTION	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
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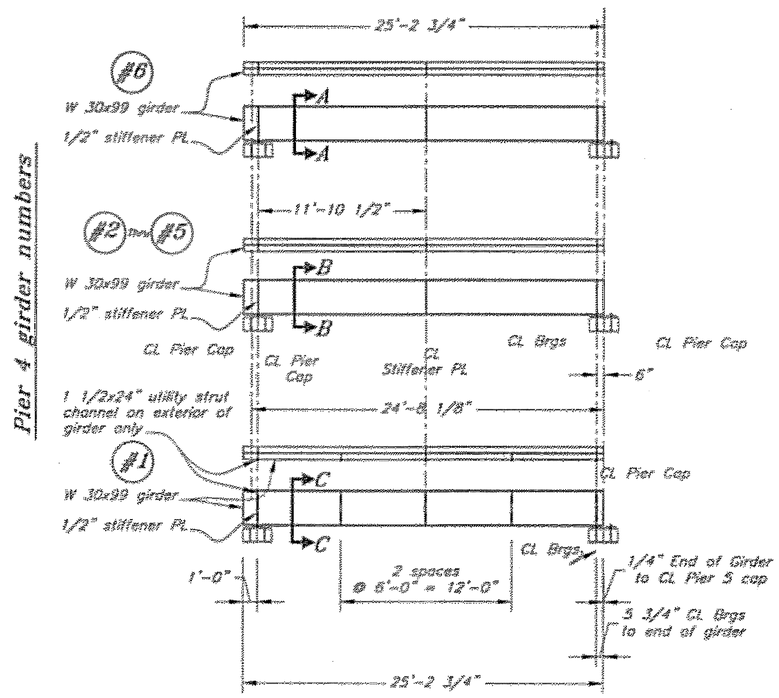
2/07



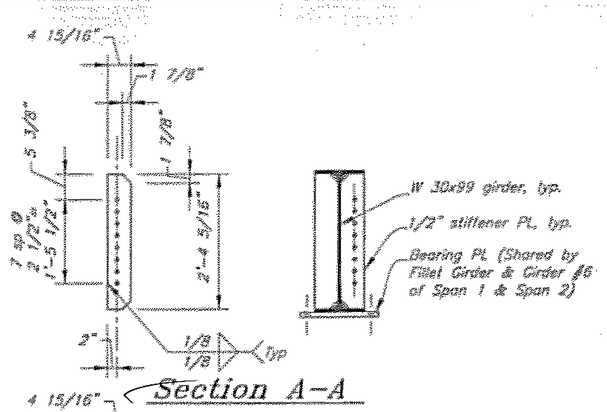
Section D-D



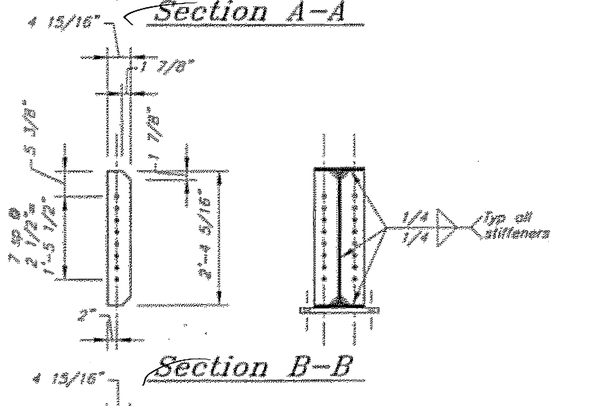
Plan
Span 1 Girder Framing



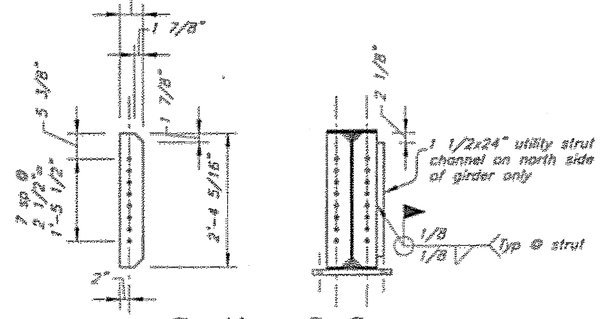
Plan & Elevation
Span 1 Girders



Section A-A



Section B-B



Section C-C

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

DESIGNED BY: J. Scott

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
& PUBLIC FACILITIES
S.E. REGION DESIGN & ENGINEERING SERVICES DIVISION

CHECKED BY: J. Beedle

DRAWN BY: J. Scott/T. Fagnant

Coffman Cove Ferry Terminal
Project 67844

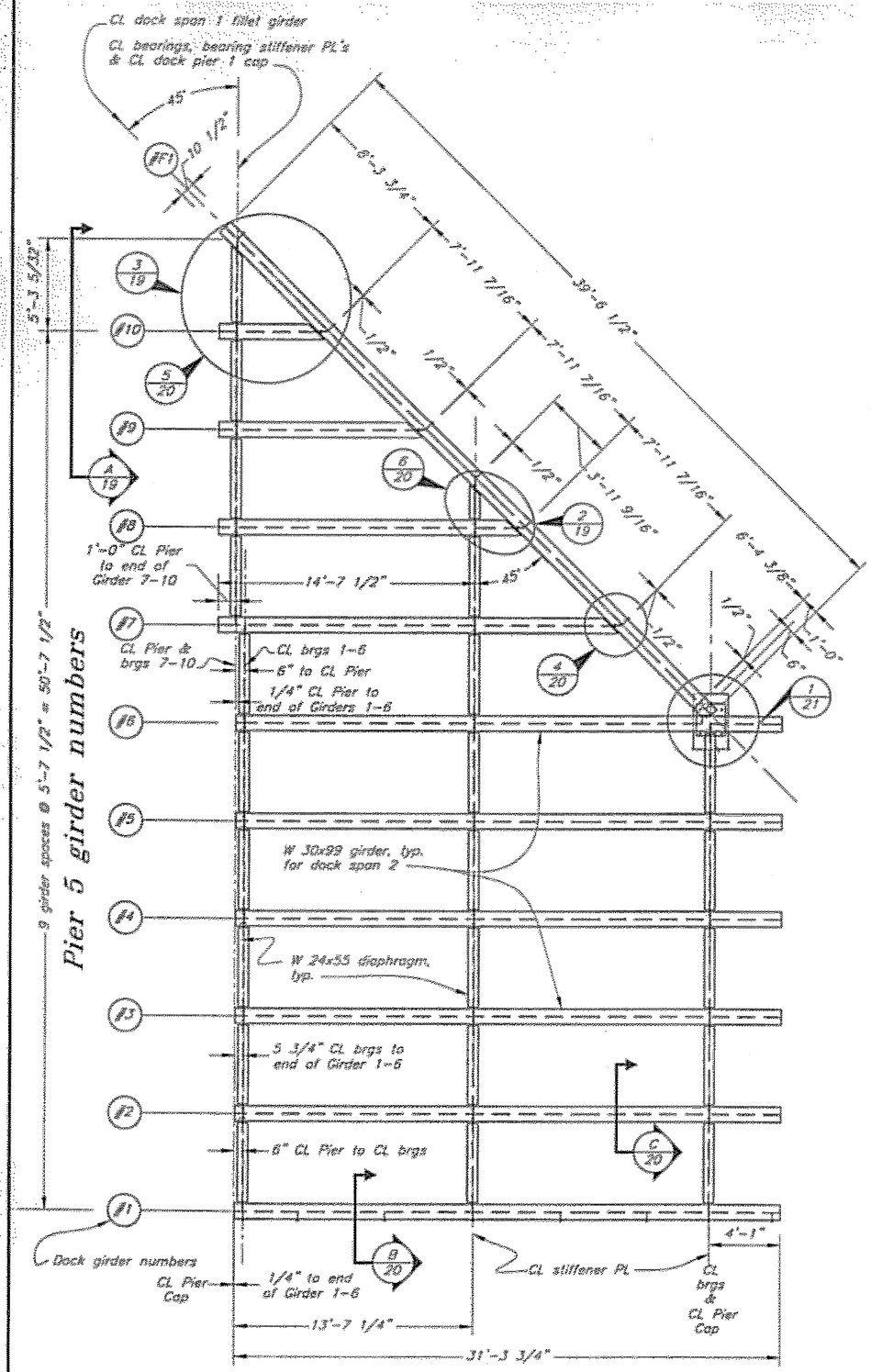
Dock Span 1 Framing

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NO	DATE	REVISIONS DESCRIPTION

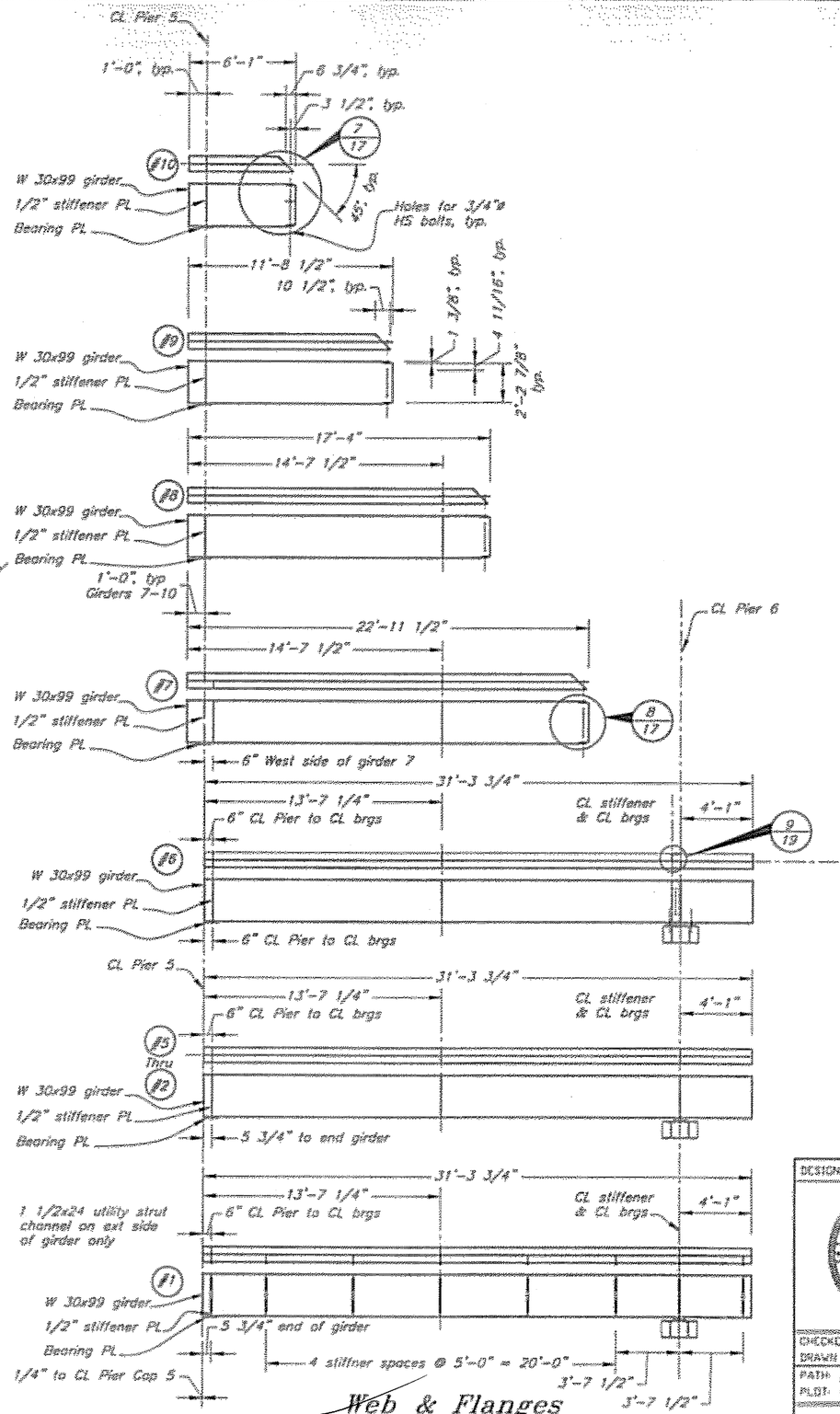
PROJECT DESIGNATION	YEAR	SHEET NO	TOTAL SHEETS
67844	2005	16	99

J GB 2/07

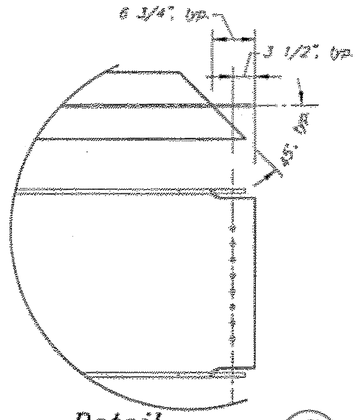


Pier 5 girder numbers

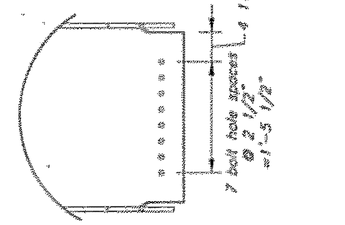
Layout
Dock Span 2 Girder & Diaphragm



Web & Flanges
Span 2 Girders



Detail
Trim Pattern 7/17
for girders 7-10



Detail
Hole Bolt Pattern 8/17
for girders 7-10

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

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
S.E. REGION DESIGN & ENGINEERING SERVICES DIVISION

Coffman Cove Ferry Terminal
Project 67844

Dock Span 2 Framing

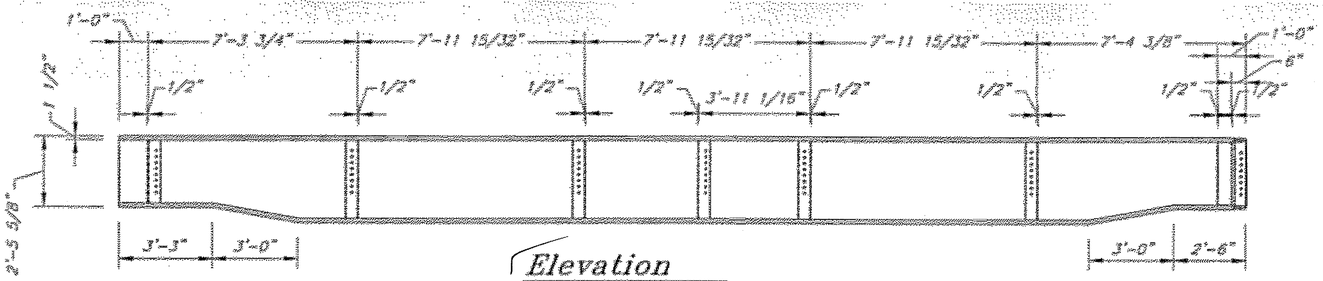
3-10-05

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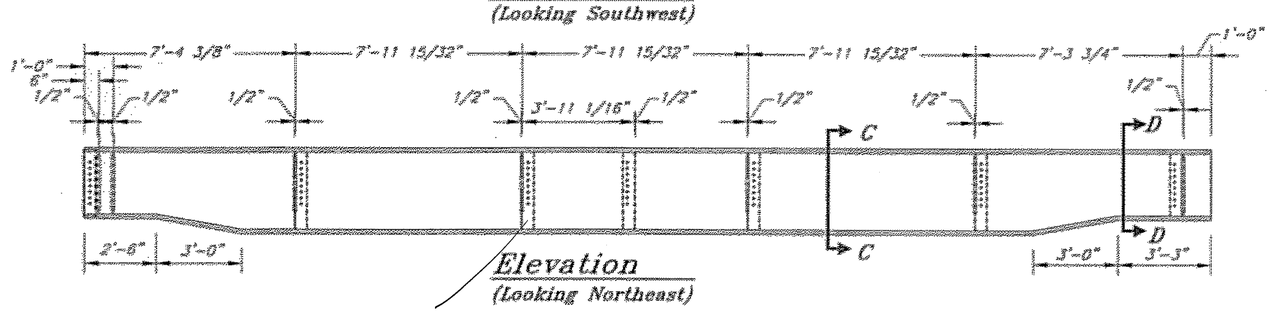
REVISIONS NO.	DATE	DESCRIPTION

PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
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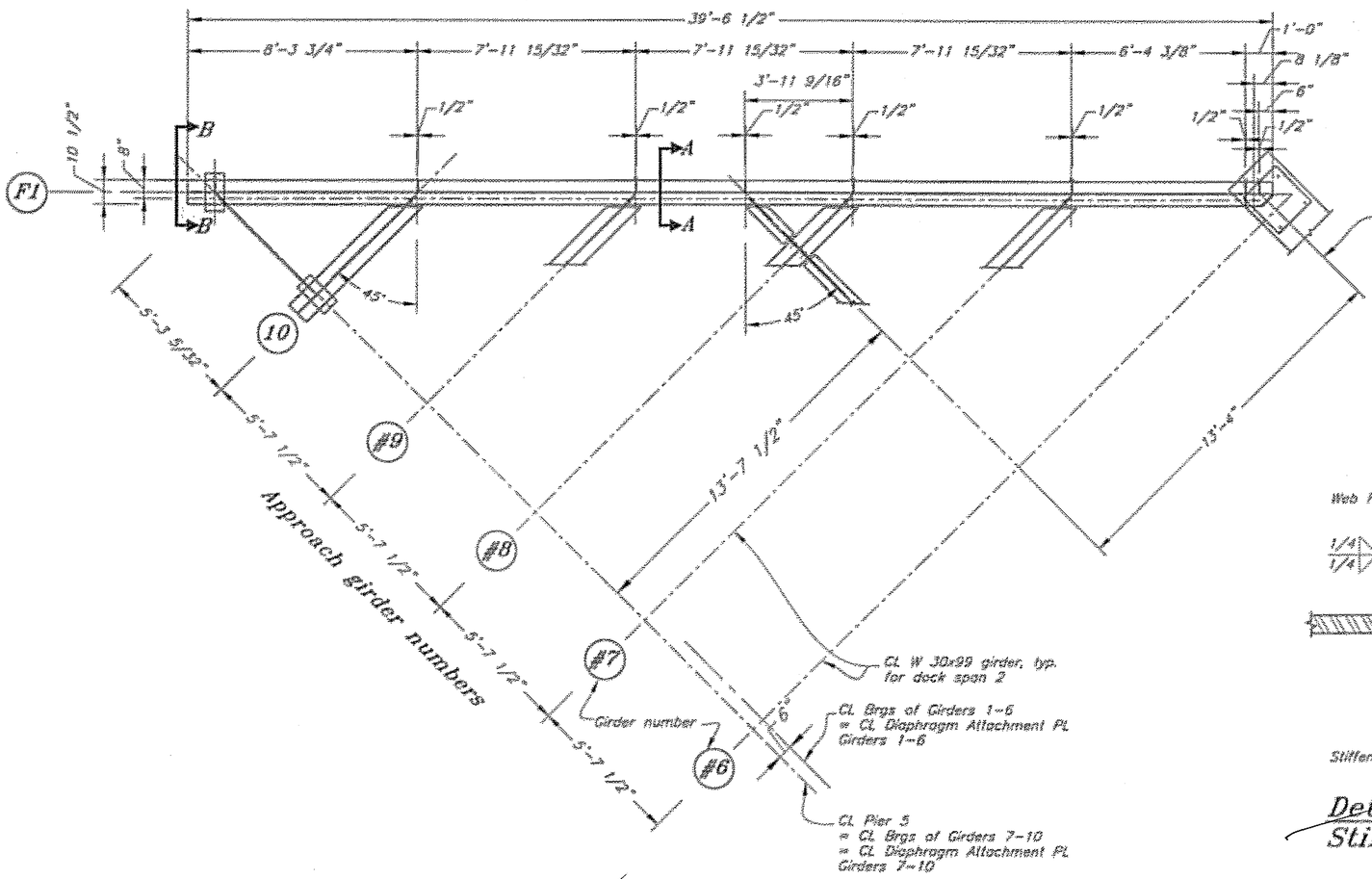
J GB 2/07



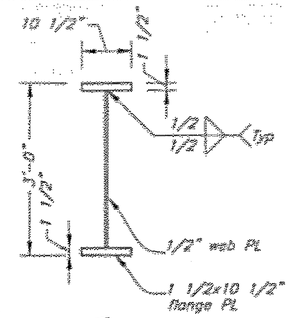
Elevation
(Looking Southwest)



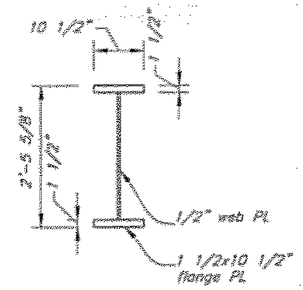
Elevation
(Looking Northeast)



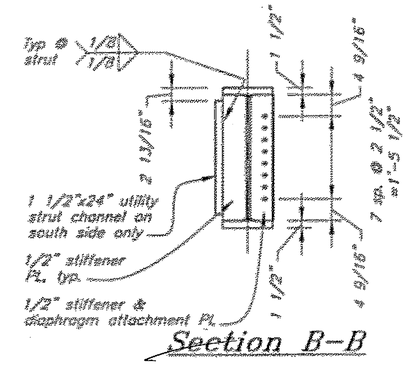
Plan
Fillet Girder



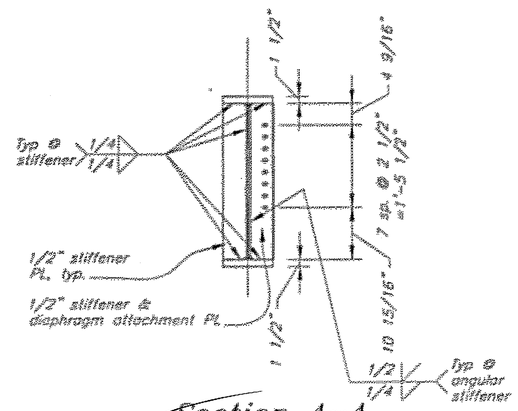
Section C–C



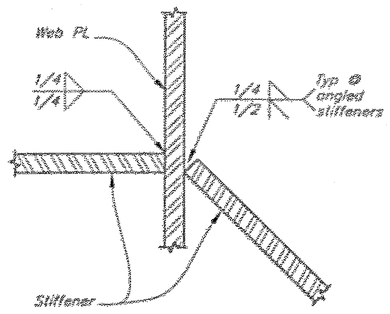
Section D–D



Section B–B



Section A–A



Detail
Stiffener to Web

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

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
S.E. REGION DESIGN & ENGINEERING SERVICES DIVISION

STATE OF ALASKA — 7409 — John L. Beedle — CE-4154 — Professional Engineer — 3-10-05

Coffman Cove Ferry Terminal
Project 67844

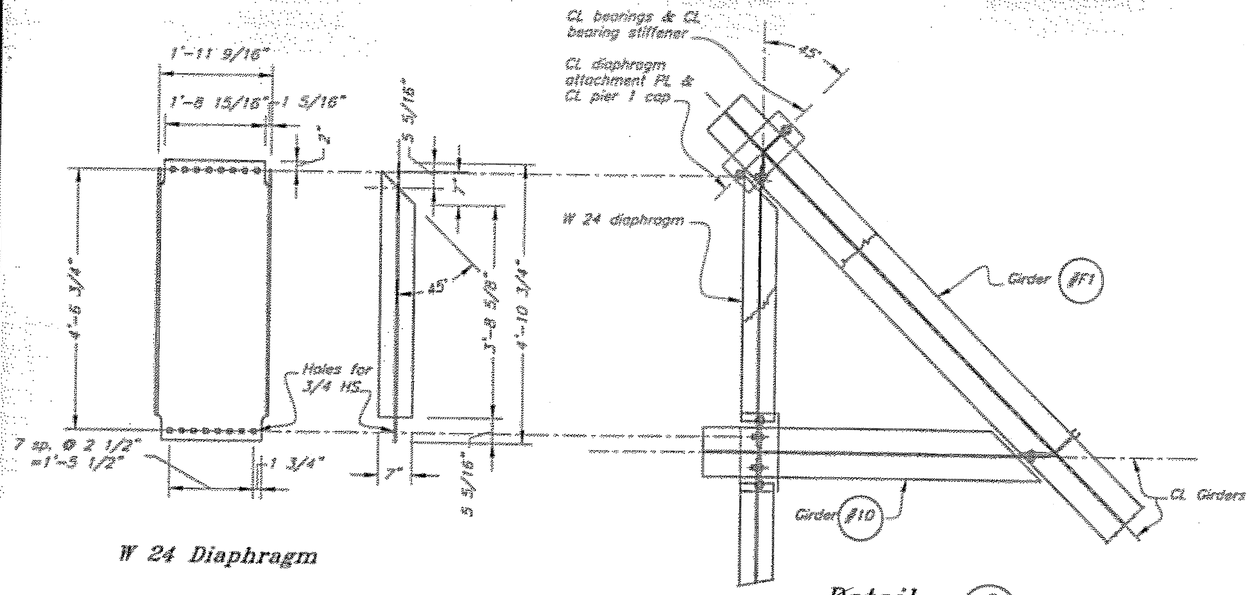
Dock Fillet Girder Layout

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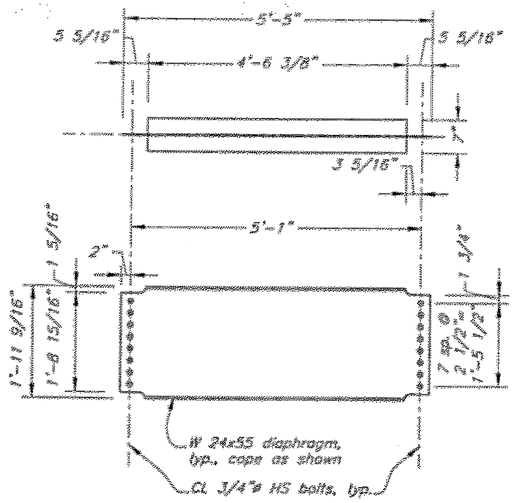
PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
67844	2005	18	99

✓ GB 2/07

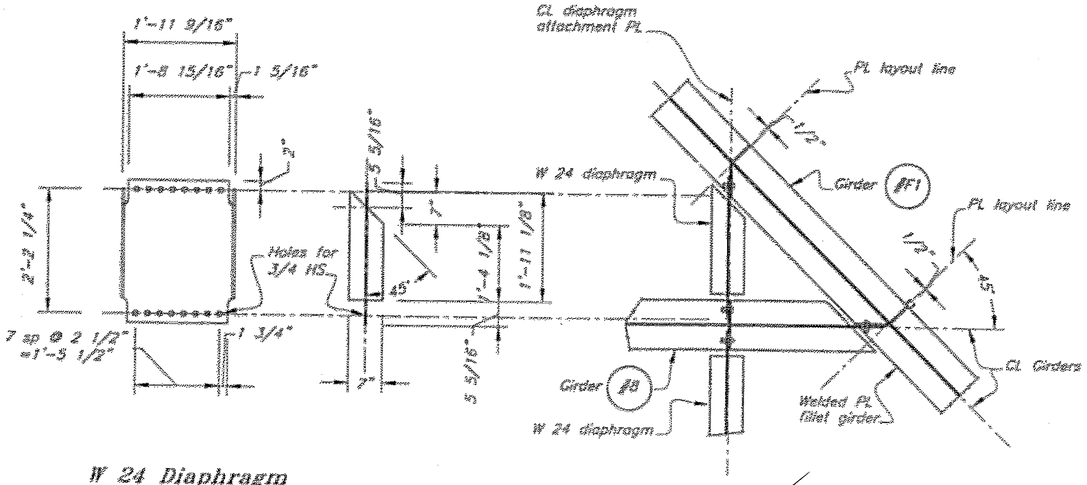


W 24 Diaphragm

Detail 3/17



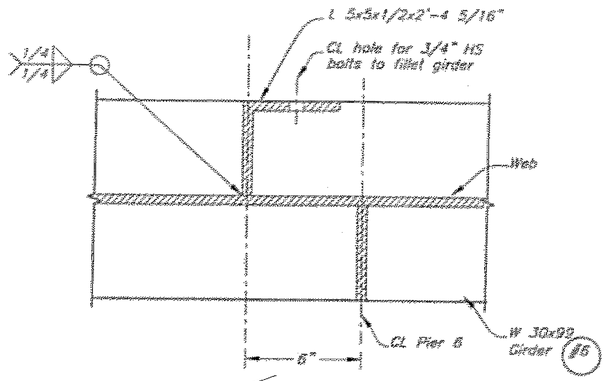
Typical Diaphragm for Dock Girders



W 24 Diaphragm

Detail 2/17

Section A/17



Detail 9/17

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DRAWN BY: J. Scott, T. Morris
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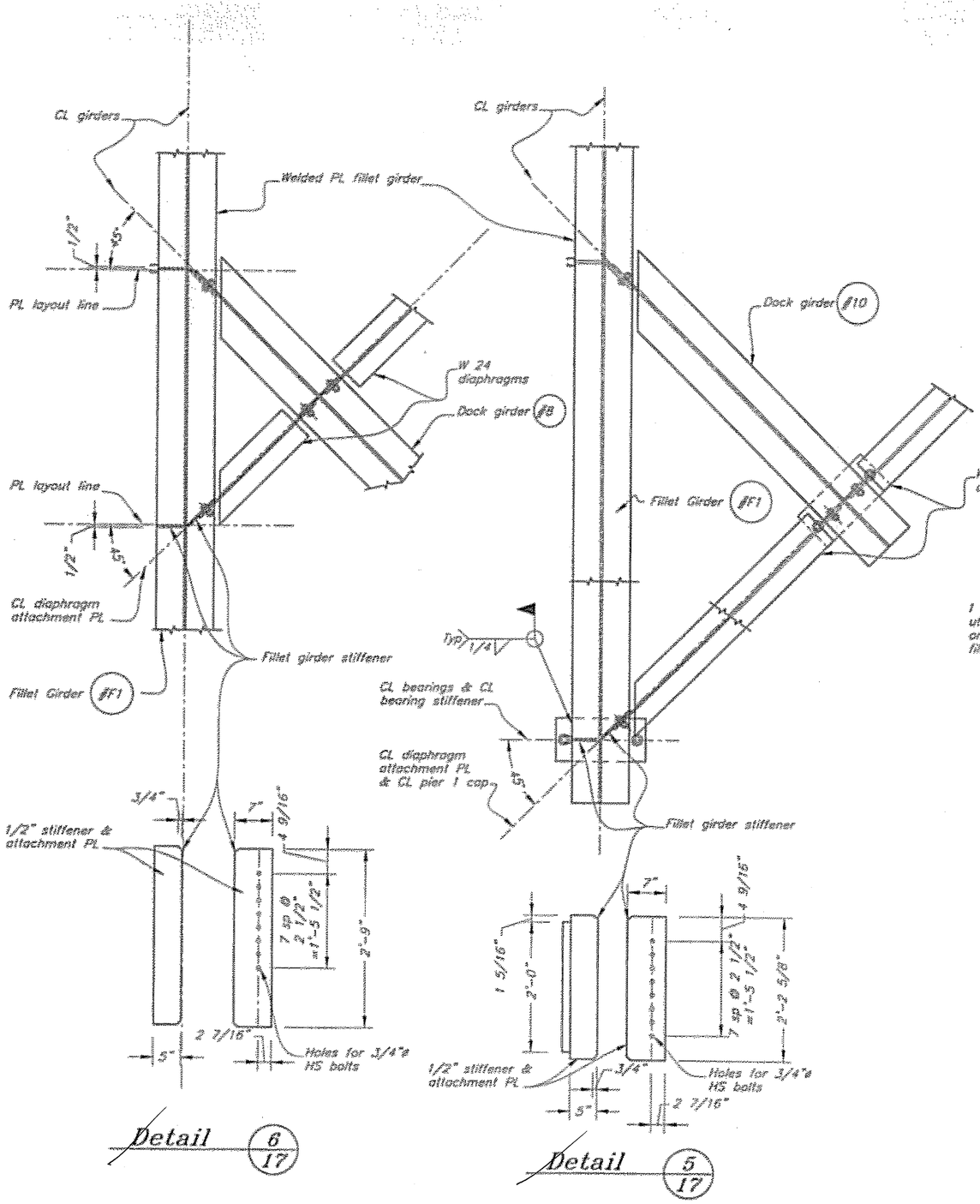
Coffman Cove Ferry Terminal
Project 67844

Dock Span 2
Diaphragm Details

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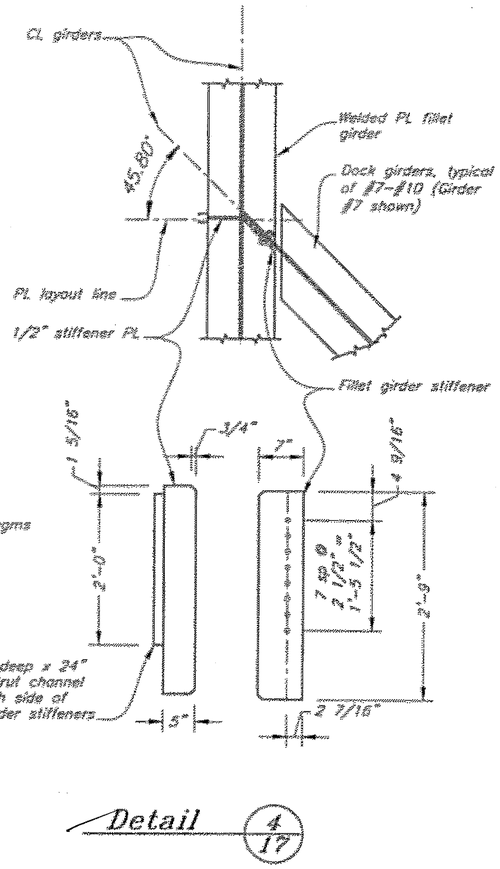
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✓ JB 2/07

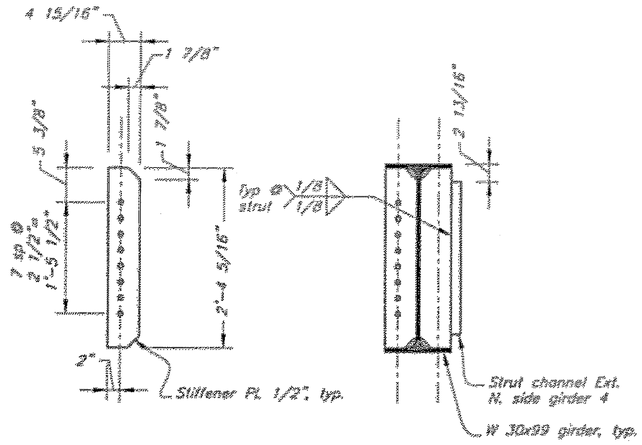


Detail 6/17

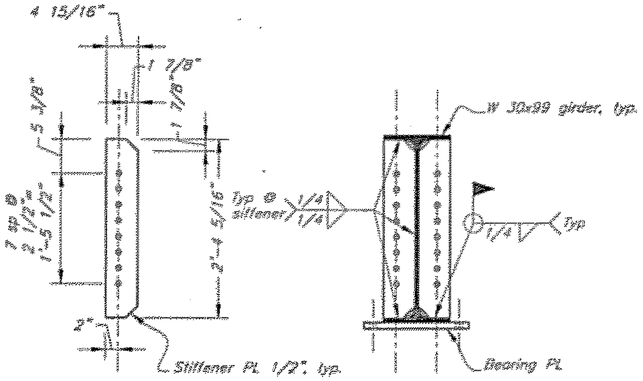
Detail 5/17



Detail 4/17



Section B/17



Section C/17

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STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
S.E. REGION DESIGN & ENGINEERING SERVICES DIVISION

CHECKED BY: J. Beedle

DRAWN BY: J. Scott, T. Moran

5-10-05

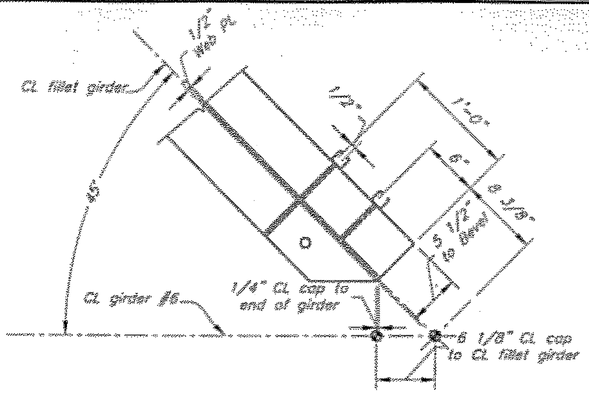
Coffman Cove Ferry Terminal
Project 67844

Dock
Span 2 Stiffener Details

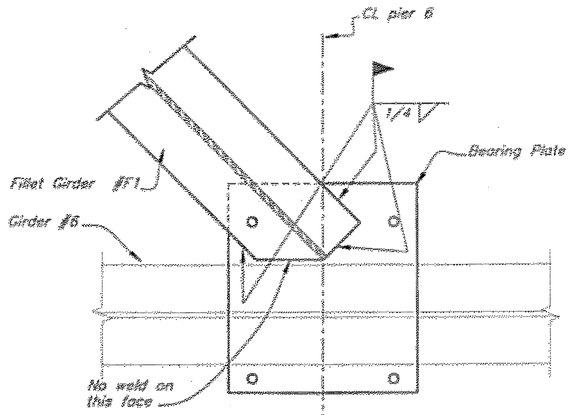
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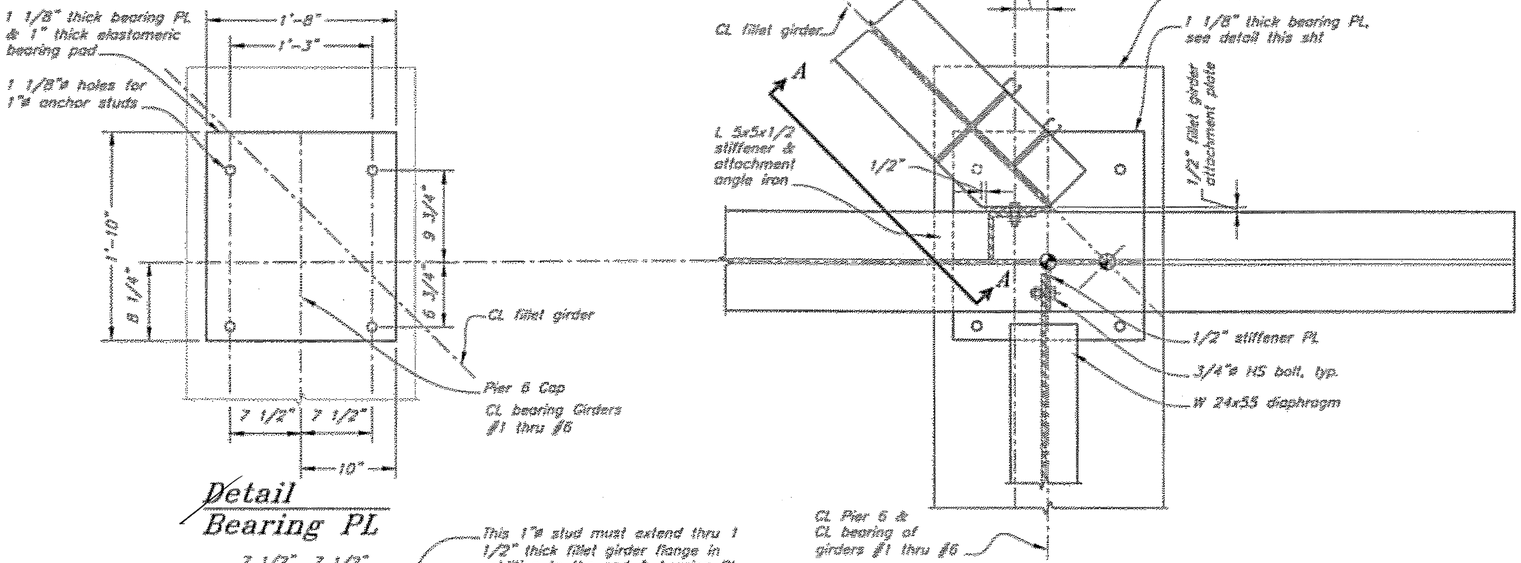
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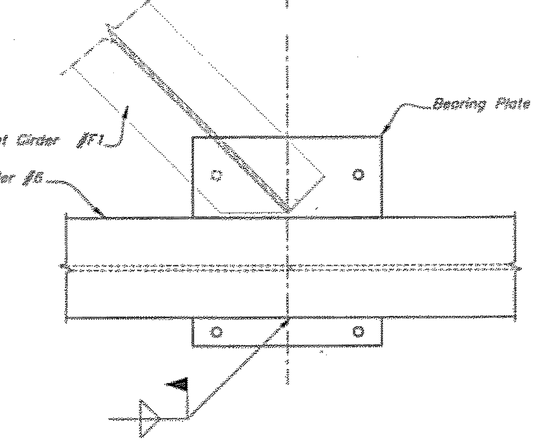
Fillet Girder



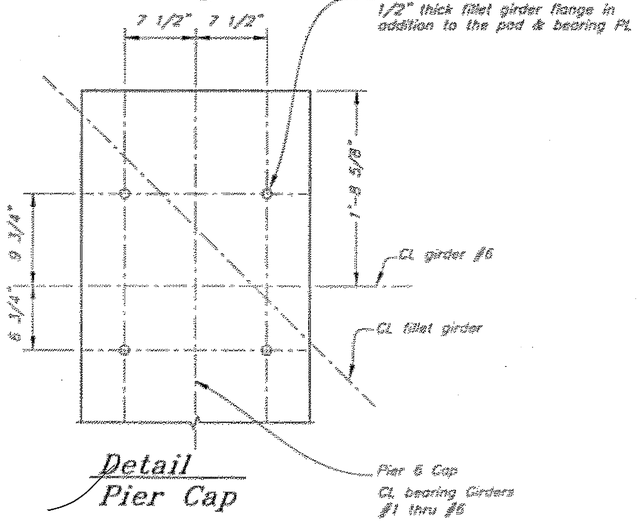


Detail
Bearing PL

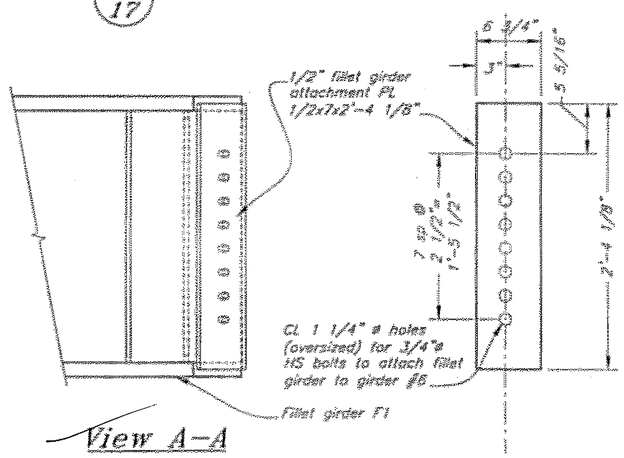
Detail 1/17



Detail
Girder to Bearing PL Welding



Detail
Pier Cap



View A–A

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DRAWN BY: J. Scott, T. Morris
CHECKED BY: J. Scott

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
S.E. REGION DESIGN & ENGINEERING SERVICES DIVISION

Coffman Cove Ferry Terminal
Project 67844

Span 2 & Pier 6 Framing Details

PATH: G:\Proe\67844\dft\Planset\21 Span 2 & 6 Framing details.dwg
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Wed, 10/26/05 11:23AM

NO	DATE	REVISIONS DESCRIPTION

PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
67844	2005	21	99

✓ JMS 2/07

Note: Grating panels are 5" nominal thickness, galvanized, open grate steel with main bearing bars 5.52#/ft @ 7 1/2" centers, and 1/4" supplemental cross bars @ 3 3/4" centers, and 1/4" @ 1" bent truss bars. Actual thickness = 5 3/16".

4 7/8" CL W6x20 post to end of panel
4" HS 3x4x3/8 rail
2'-3 1/2"
9 3/4"
6'-0"
8 railpost spaces @ 6'-0" = 48'-0"
5'-0"
2'-10 3/16" gap approach panels to dock fillet panels
Railpost attachment PL 1/2x8x8, typ.
Traffic rails, typ.
Open metal grate decking panels, typ.
Traffic rails, typ.
Open metal grate decking panels, typ.
1/4" gap approach panels to dock panels
1" gap
Dock fillet Panels
24'-0" o-o deck panel
23'-2 1/4" c.l. rail attachment plates
22'-0" traffic lane
10'-0"
Begin Bridge @ bk of backwall
CL approach girders & piles
2'-0"
Layout line N 90° 00' 00" W
A A
B B
C C
D1 D2 D3 D4 D5 D6 D7 D8 D9 D10 D11 D12
E1 E2 E3 E4 E5
34'-0"
Lumindire base PL, see Shl. 24
Panel D1 6'-3 1/2"
10 panels D2 - D11 @ 7'-8" = 76'-8"
Panel D12 6'-3 1/2"
1/4" gap
2'-3 1/4"
14 railpost spaces @ 6'-0" = 84'-0"
2'-11 3/4"
1/4" gap
Dock Panels

Layout Plan

3/8x5 3/16"x24'-0" grating trim PL w/ 1/2x1x24'-0" seat PL for deck seal
3/8x3 9/16"x24'-0" PL to maintain trim PL alignment
Wabo WC-500 compression seal, or equal
Glulam backwall
1"ø bolt, nut & washer, typ.
Stiffener PL
W30x99 girder
L8x8x1/2 backwall support brace

Section A-A

1/2" elastomeric pad
W24x55 diaphragm
"D" deck panels
1/4" gap
"E" deck panels
Deck clamp
W 24x55 diaphragm
W 30x99 approach girders & stiffeners
Pier 3 Cap Assembly
Pier 4 Cap Assembly

Section C-C

"F" deck panels
1" gap
"D" deck panels
1/2" elastomeric pad
Deck clamps
W 30x99 fillet girders, diaphragms & stiffeners
W 24x55 diaphragm
W 30x99 approach girders & stiffeners

Section B-B

Elevation

Clip

Section

7 3/16"
3"
2 1/8"
Holes for 3/4"ø HS bolt, nut & washer
3/4x6x7 3/16 PL
1/4x1 1/2x7 3/16 50 duro elastomeric pad epoxy to PL
Typ)
6"
3"
1 1/2"
15/16"
7/8"
9"
1 1/2x9" long rod
3/4x6x7 3/16 PL
3"
2 1/8"
7 3/16"

Plan

Elevation

Clip Assembly for Grate Decking
(2 per Girder per Panel)

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DESIGNED BY: J. Scott
DRAWN BY: J. Scott, T. Morris
CHECKED BY: J. Beedle
PATH: Q:\Flow\67844\SF\Planset\22 Approach Deck Layout.dwg
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Wed, 16/Feb/05 11:24AM

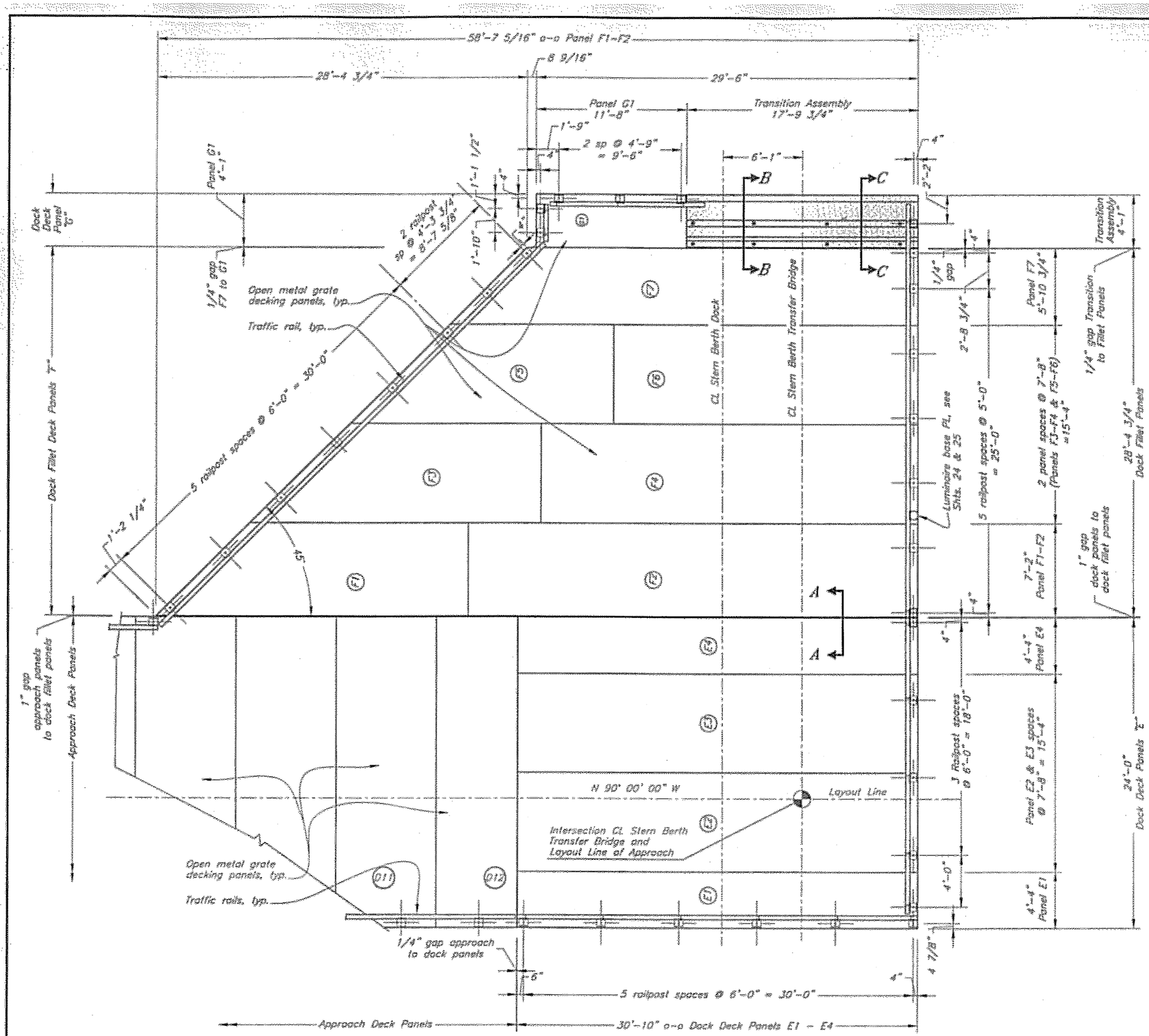
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
S.E. REGION DESIGN & ENGINEERING SERVICES DIVISION

Coffman Cove Ferry Terminal
Project 67844

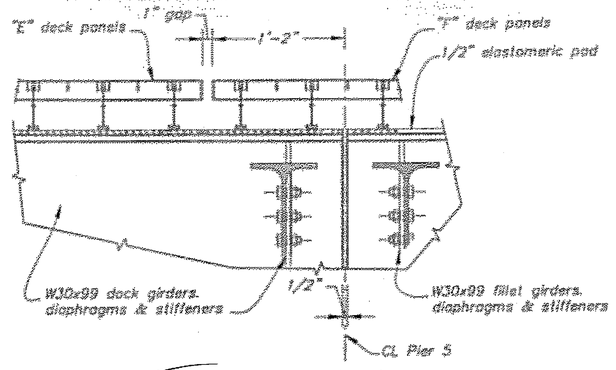
Approach Deck Layout

REVISIONS NO.	DATE	DESCRIPTION	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
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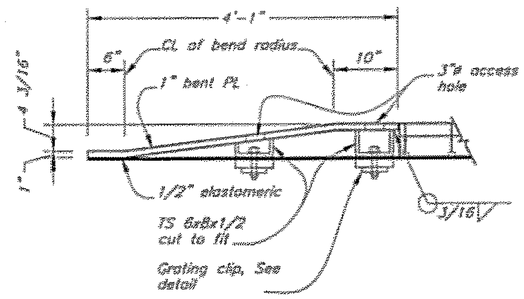
✓ JM 2/07



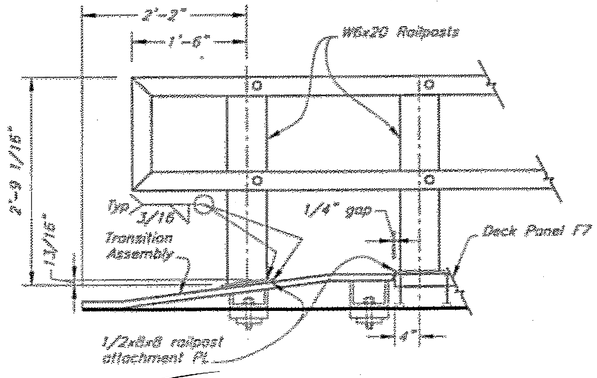
Layout Plan



Section A-A



Section B-B



Section C-C

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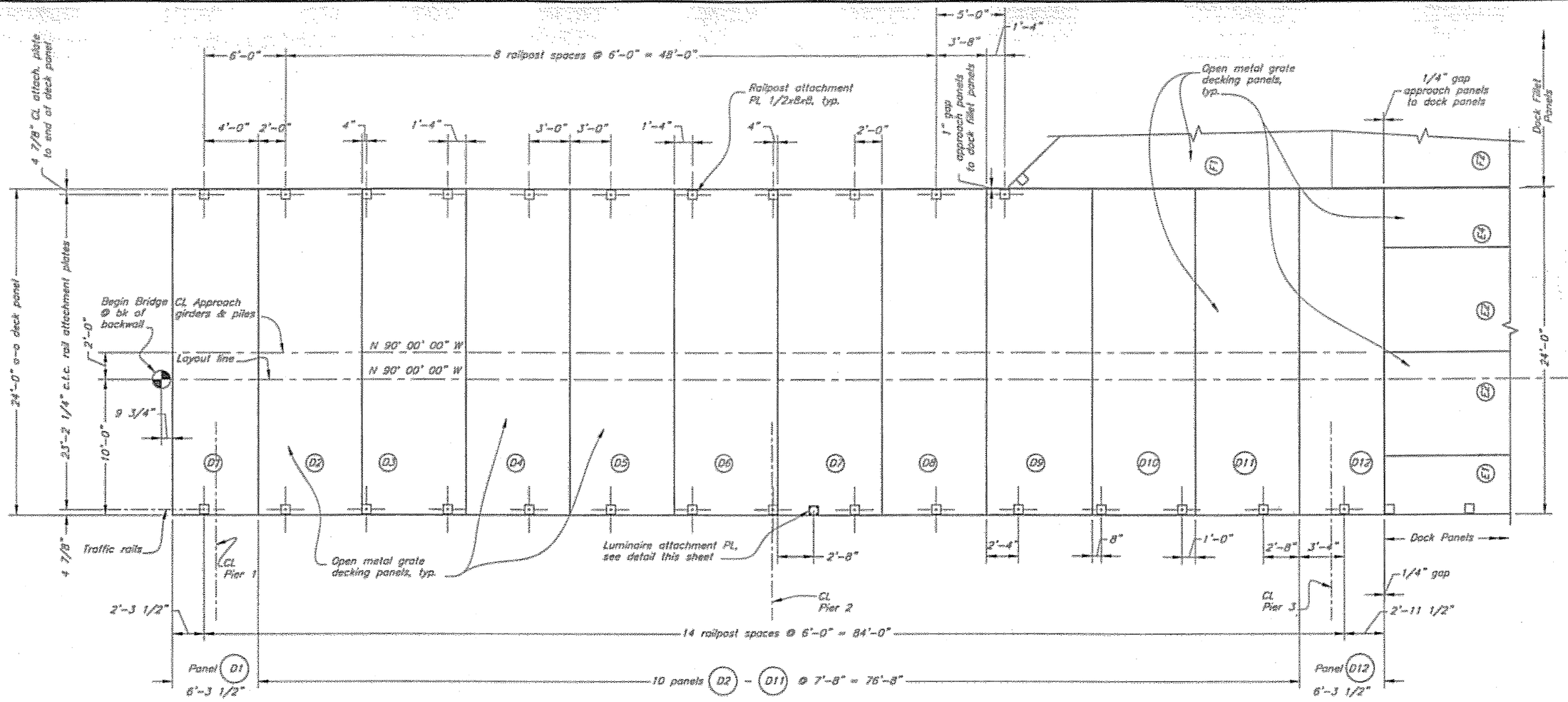
DESIGNED BY: J. Scott	STATE OF ALASKA DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES S.E. REGION DESIGN & ENGINEERING SERVICES DIVISION
CHECKED BY: J. Beedle	Coffman Cove Ferry Terminal Project 67844
DRAWN BY: J. Scott, F. Mares	**Dock & Fillet Deck Layout**

STATE OF ALASKA · 7491 · John T. Scott CE-1733 · REGISTERED ENGINEER · 3-10-05

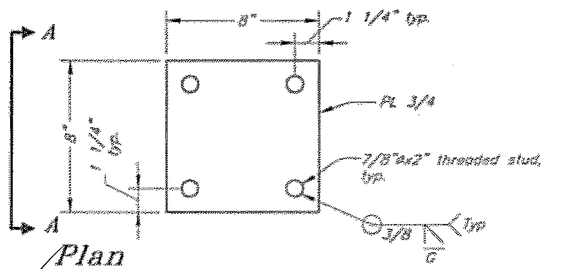
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REVISIONS NO.	DATE	DESCRIPTION	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			67844	2005	23	99

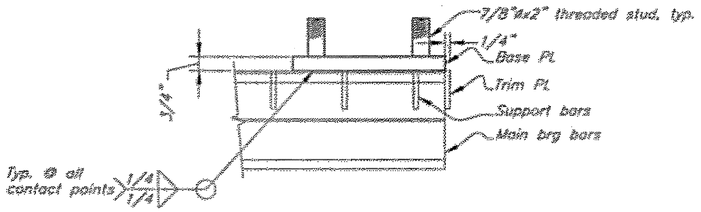
✓ JM 2/07



Deck Panel Details
Approach Span 1 & Span 2



Plan
Luminaire Attachment PL



View A-A

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

DESIGNED BY: J. Scott
DRAWN BY: J. Scott, T. Morris
CHECKED BY: J. Beedle

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DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
S.E. REGION DESIGN & ENGINEERING SERVICES DIVISION

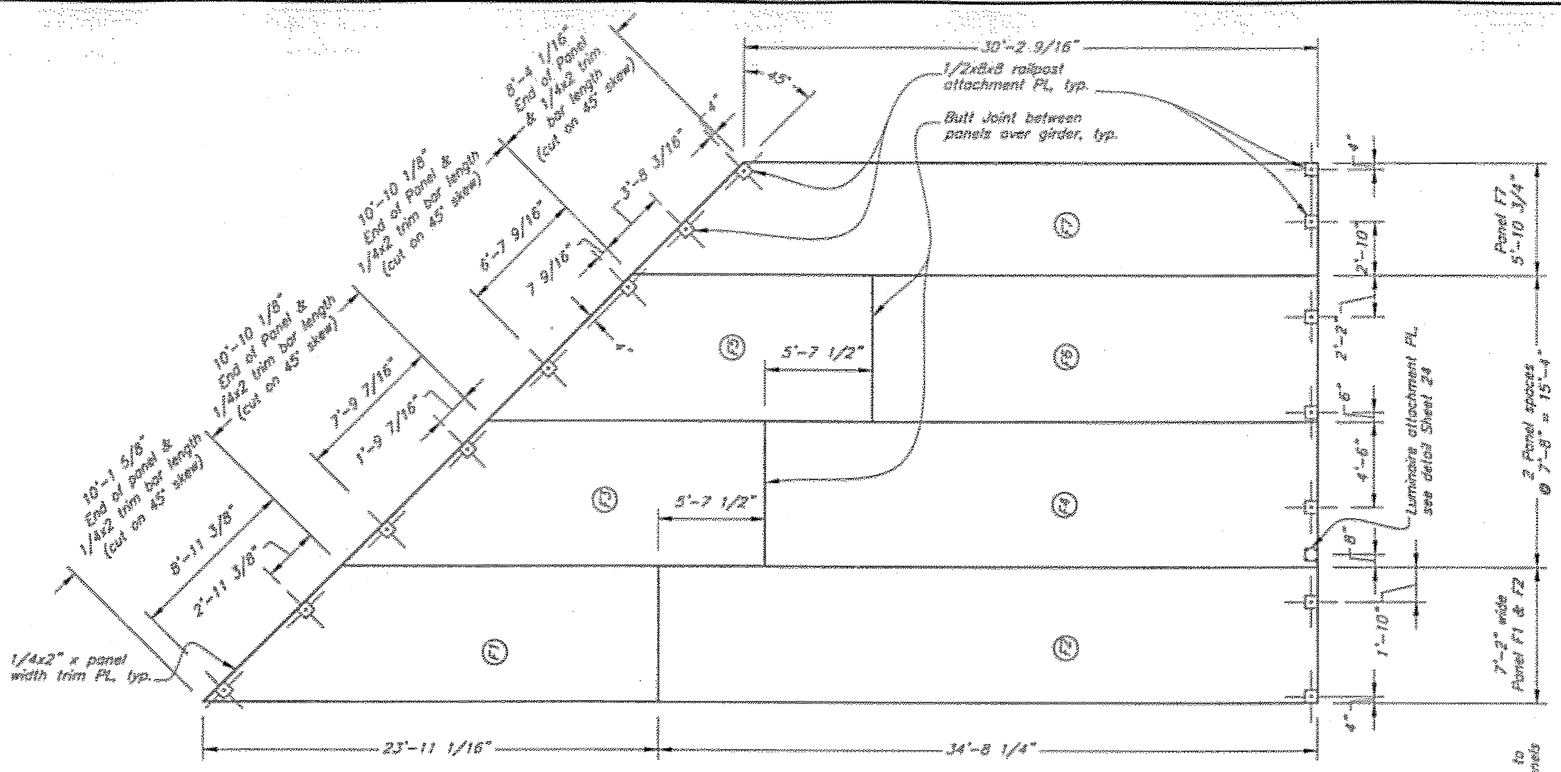
Coffman Cove Ferry Terminal
Project 67844

Approach Deck Details

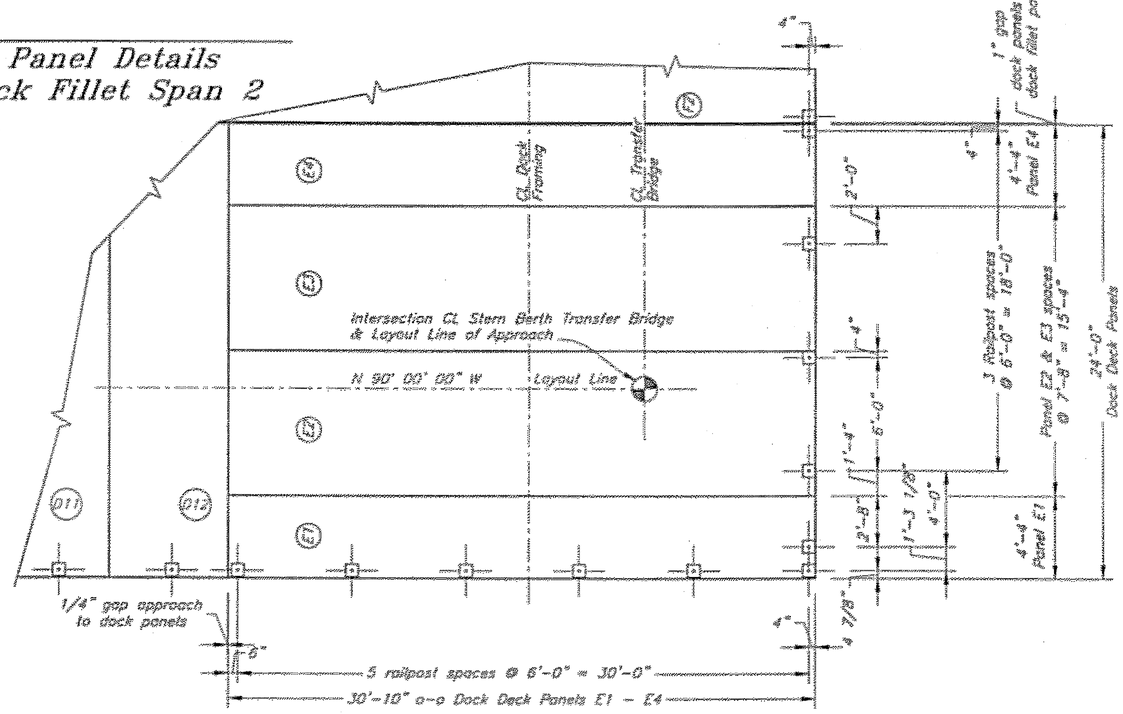
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Wed, 10/19/05 11:35AM

REVISIONS NO.	DATE	DESCRIPTION	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			67844	2005	24	99

✓ JB 2/07



Plan
Deck Panel Details
@ Dock Fillet Span 2



Plan
Deck Panel Details
@ Dock Span 2

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DESIGNED BY: J. Scott
DRAWN BY: J. Scott/T. Morris
CHECKED BY: J. Beedle
PATH: G:\Pw\67844\MP\Planset\25 DOCK SPAN 1 AND 2 DECKING DETAILS.DWG
PLOT: PSPACE 1=1
Wed, 18/Feb/05 11:29AM

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
S.E. REGION DESIGN & ENGINEERING SERVICES DIVISION

John I. Scott
CE-4755
2-10-05

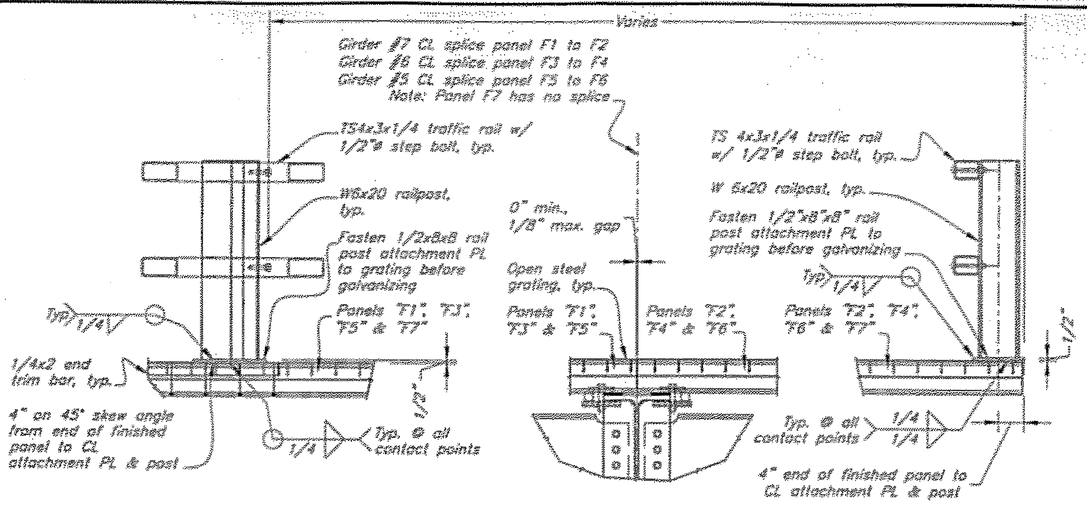
Coffman Cove Ferry Terminal
Project 67844

Dock Span 1 & 2 Deck Details

NO.	DATE	REVISIONS DESCRIPTION

PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
67844	2005	25	99

✓ GMS 2/07

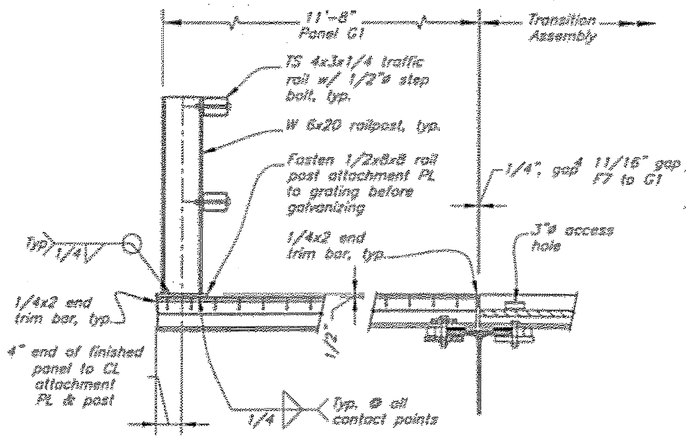


Panel Detail F1, F3, F5, F7
End of Panel & Rail

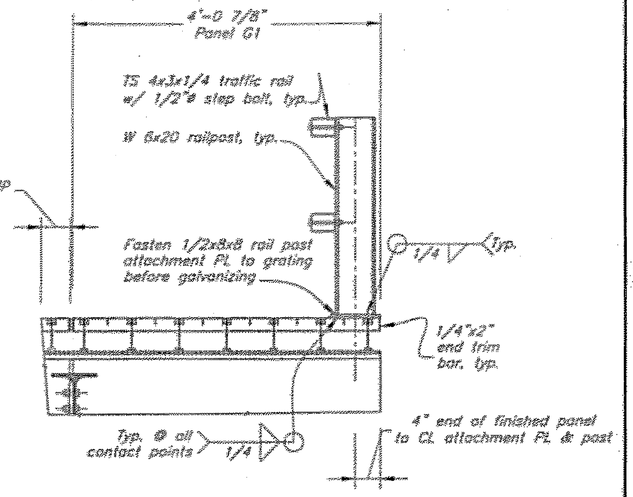
Detail
@ F Panel "Splices"

Panel Detail F2, F4, F6 & F7
End of Panel & Rail

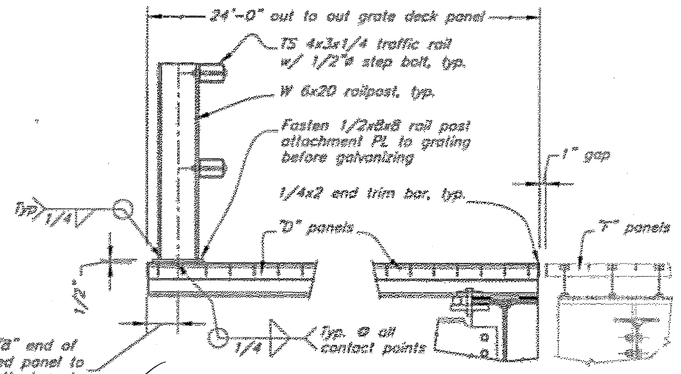
Section thru Panels F1–F7
Dock Span 2



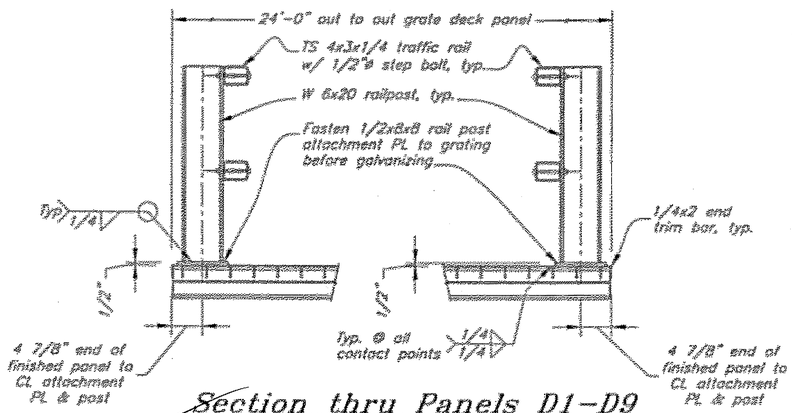
Detail
@ End of Panel G1
Dock Span 2



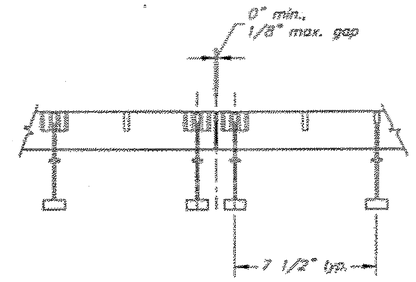
Detail
@ Edge of Panel G1
end of Dock Span 2



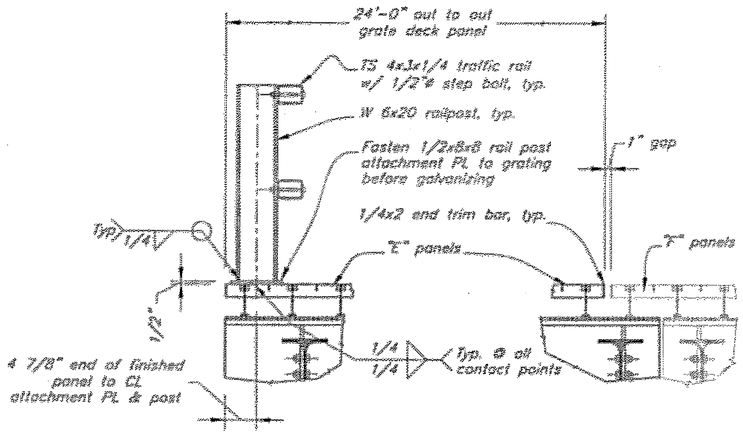
Section thru Panels D10–D12
Approach Spans 1 & 2



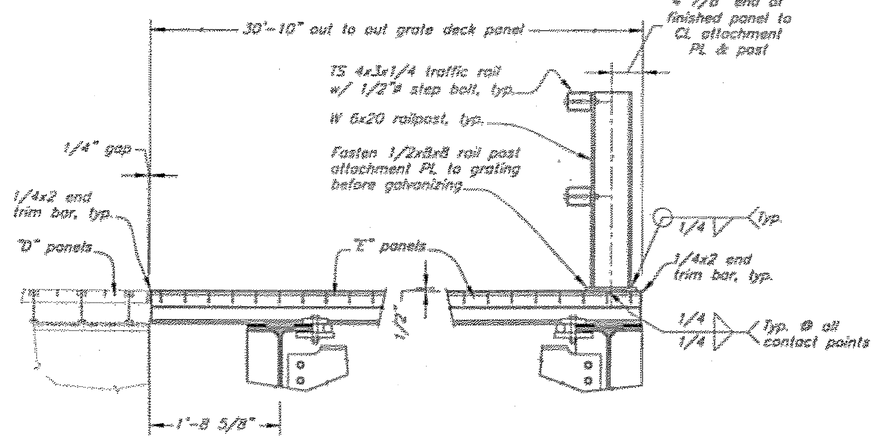
Section thru Panels D1–D9
Approach Spans 1 & 2



Typical Grating Joint



Section thru Panels E1–E4
Dock Span 1



Section thru Panels E1–E4
Dock Span 1

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

DESIGNED BY: A. Scott
DRAWN BY: A. Scott, T. Mores
CHECKED BY: J. Beedle

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DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
S.E. REGION DESIGN & ENGINEERING SERVICES DIVISION

Coffman Cove Ferry Terminal
Project 67844

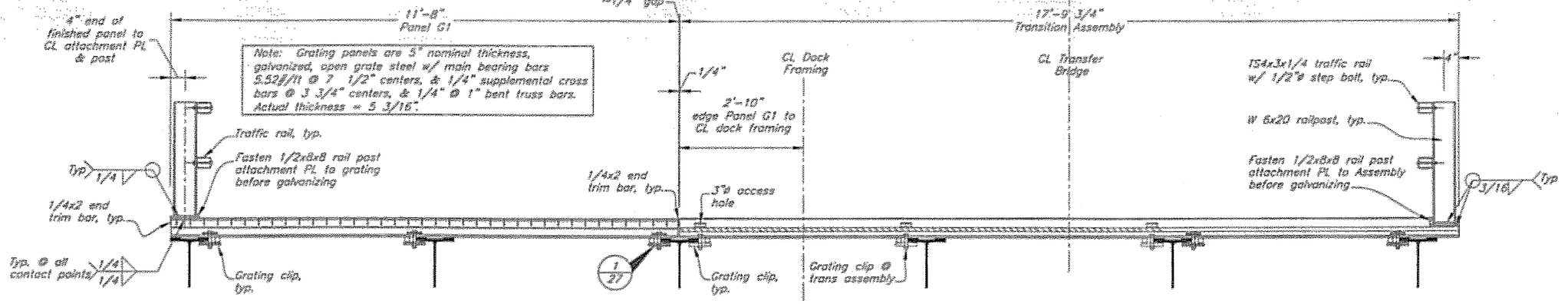
Decking Sections

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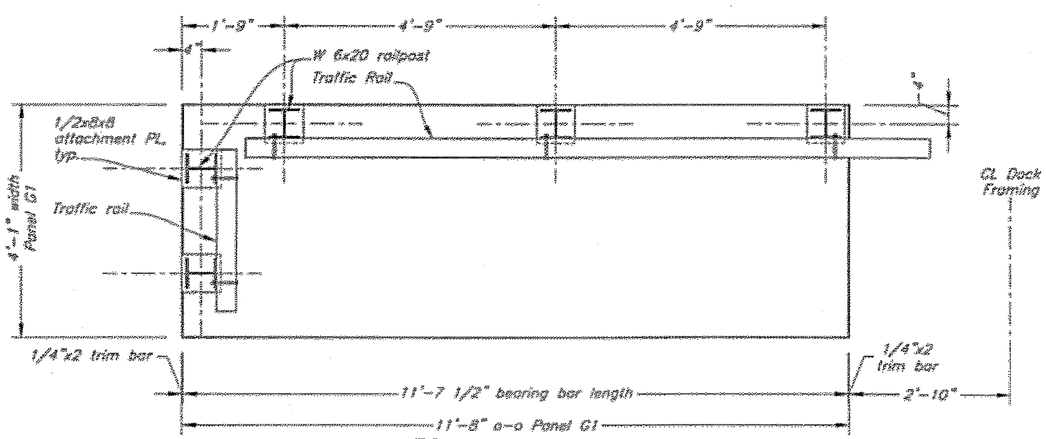
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PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
67844	2005	26	99

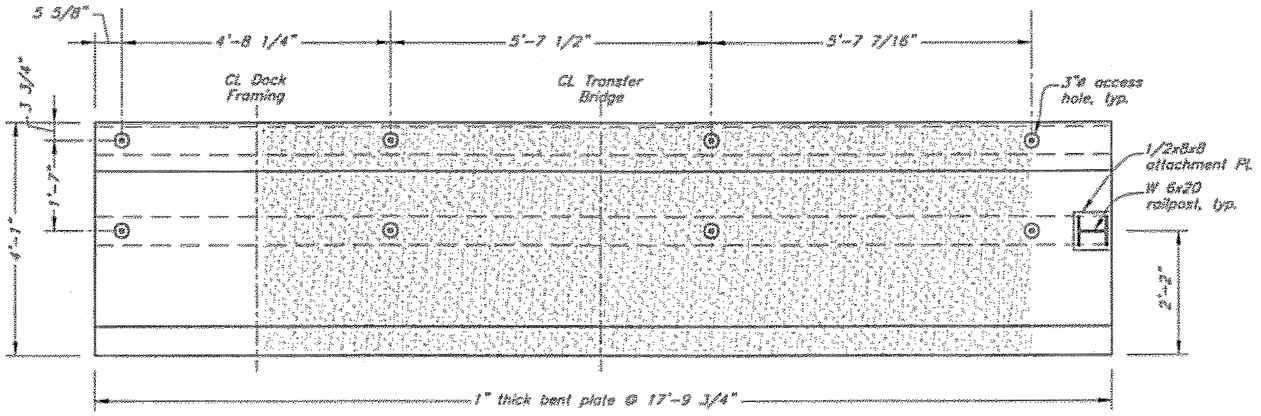
✓ JB 2/07



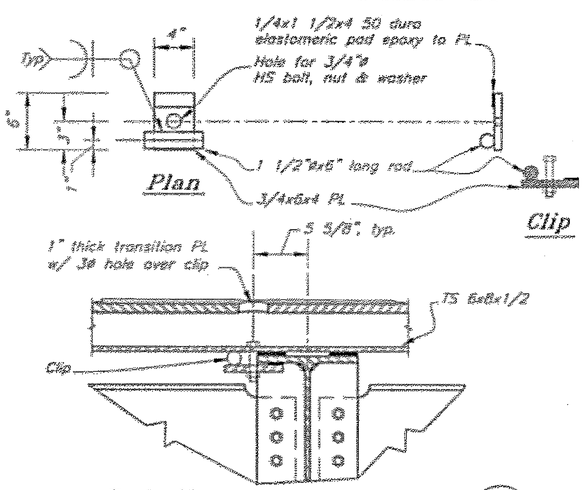
Elevation
Panel G1 & Transition Plate Assembly



Plan
Panel G1

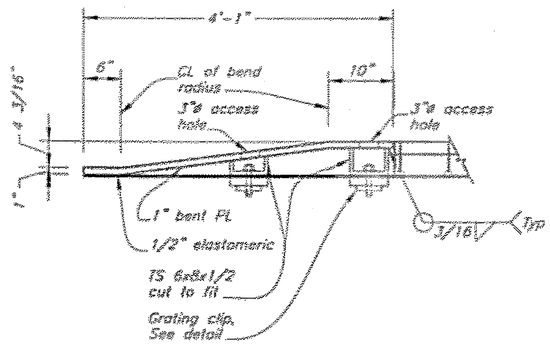


Plan
Transition Plate Assembly



Detail
Grating Clip Assembly

1
27



Typical Section
thru Transition Assembly

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

DESIGNED BY: J. Scott
CHECKED BY: J. Beedle
DRAWN BY: J. Scott, F. Mares

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DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
S.E. REGION DESIGN & ENGINEERING SERVICES DIVISION

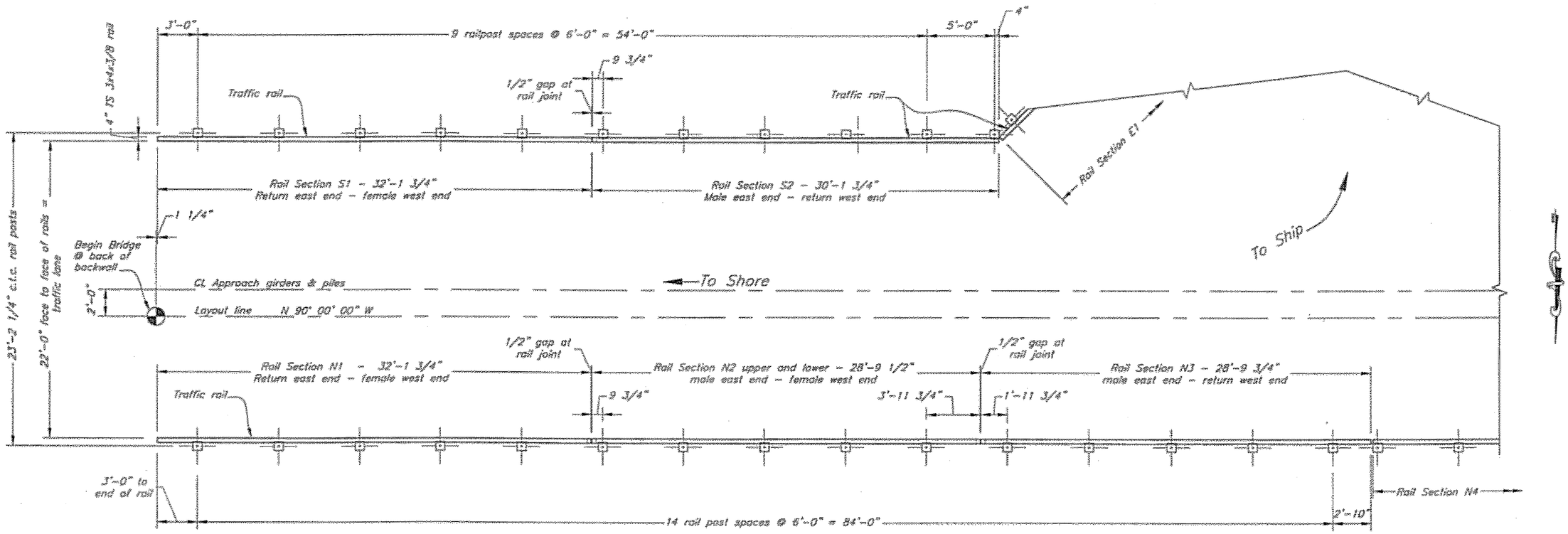
Coffman Cove Ferry Terminal
Project 67844

Dock to Bridge Transition Assembly

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PLOT: PSPACE 1=1
Wed, 16-Feb-05 11:31AM

REVISIONS NO.	DATE	DESCRIPTION	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			67844	2005	27	99

✓ 2/07



Layout
Approach Traffic Rail

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DESIGNED BY: J. Scott

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
& PUBLIC FACILITIES
S.E. REGION DESIGN & ENGINEERING SERVICES DIVISION

STATE OF ALASKA
John I. Scott
CE-4753
3-10-05

CHECKED BY: J. Barrie
DRAWN BY: J. Scott, T. Nares

Coffman Cove Ferry Terminal
Project 67844

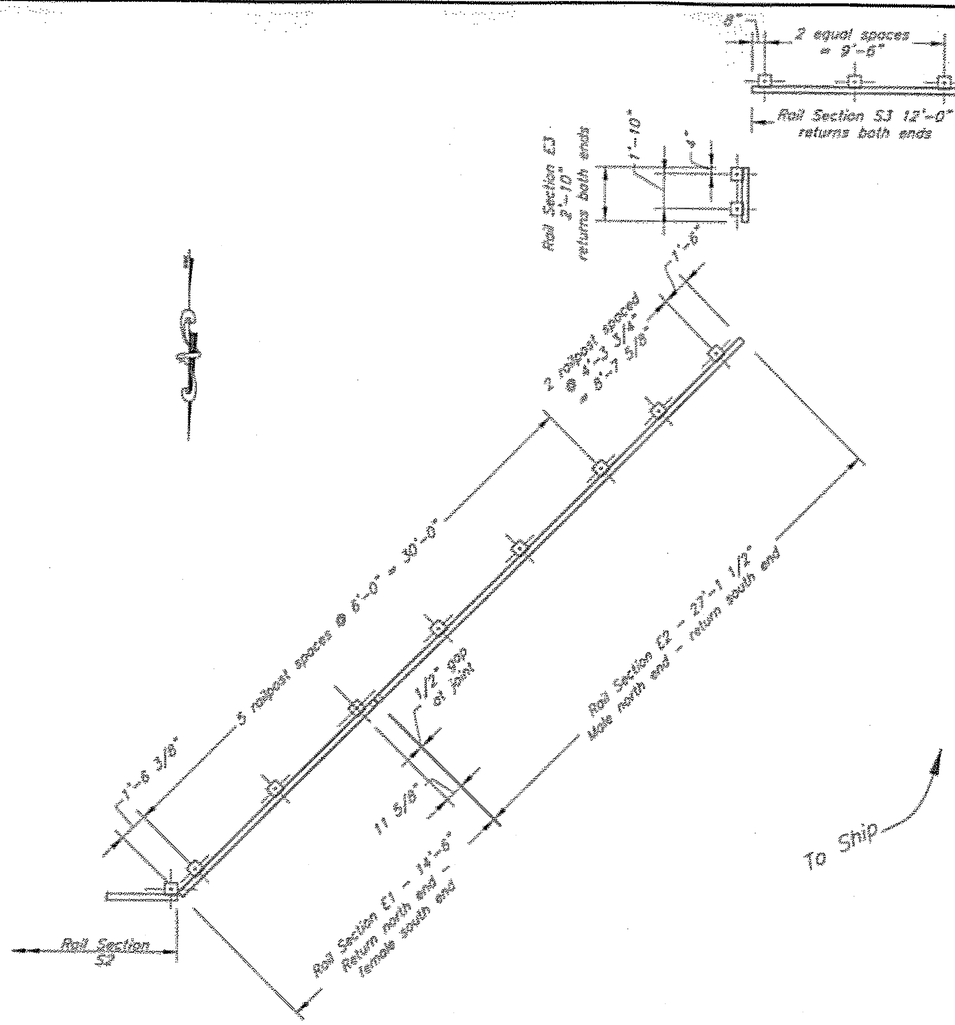
Approach Traffic Rail Layout

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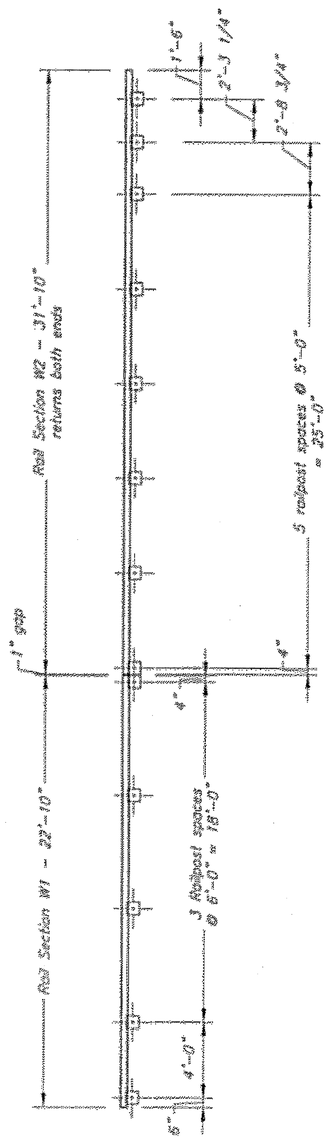
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PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
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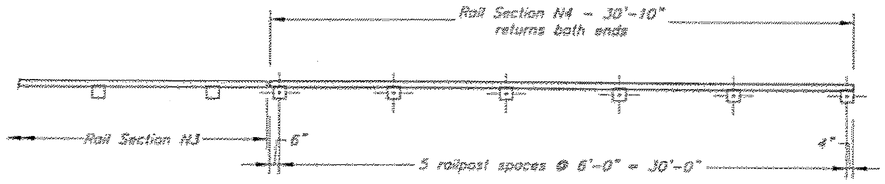
✓ gw 2/07



NOTE: Rail Sections E3 & S3 are shifted from their relative positions to other rails for clarity.



NOTE: Rail Sections N4 is shifted from its relative positions to other rails for clarity.



Layout Plan
Dock Traffic Rails

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

DESIGNED BY: J. Scott
DRAWN BY: J. Scott, E. Mares
CHECKED BY: J. Beedle

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DEPARTMENT OF TRANSPORTATION
& PUBLIC FACILITIES
S.E. REGION DESIGN & ENGINEERING SERVICES DIVISION

STATE OF ALASKA
7491
John T. Scott
CE-4725
REGISTERED PROFESSIONAL ENGINEER
3-10-05

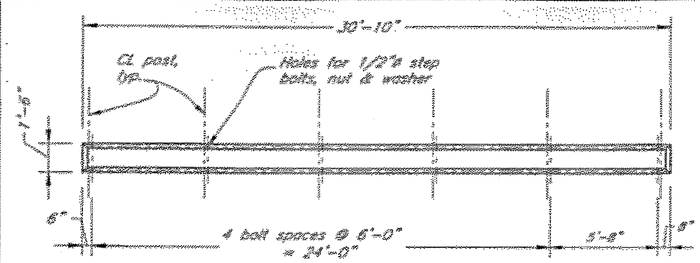
Coffman Cove Ferry Terminal
Project 67844

Dock Traffic Rails

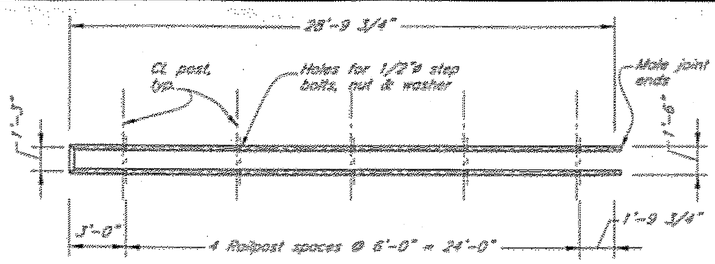
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REVISIONS NO	DATE	DESCRIPTION	PROJECT DESIGNATION	YEAR	SHEET NO	TOTAL SHEETS
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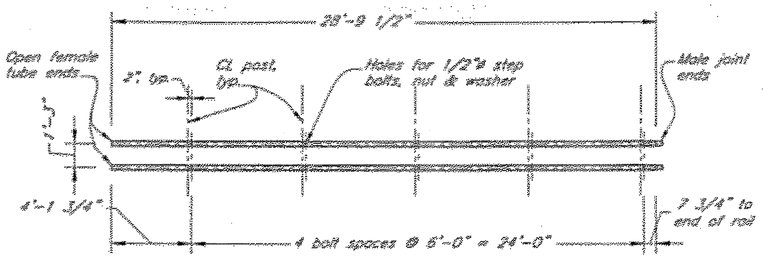
✓ 2107



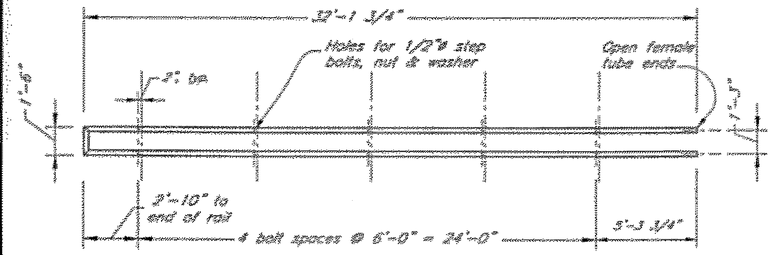
Dock Rail N4
(Elevation looking North)



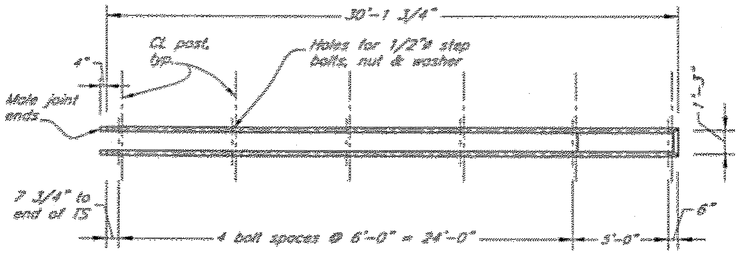
Approach Rail N3
(Elevation looking North)



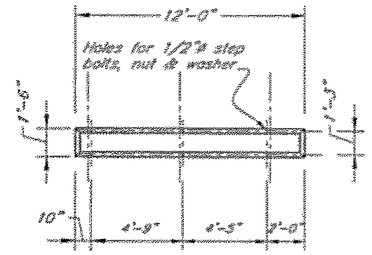
Approach N2 Upper & Lower
(Elevation looking North)



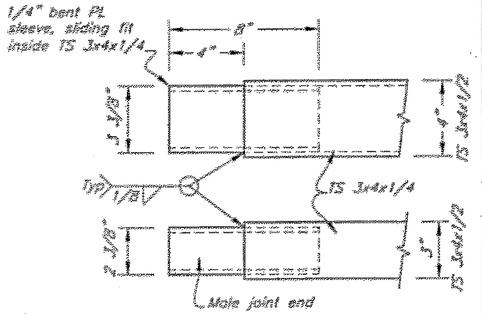
Approach Rail S1 & N1
(Elevation looking South at S1 –
Rail N1 is opposite hand in plan view from S1)



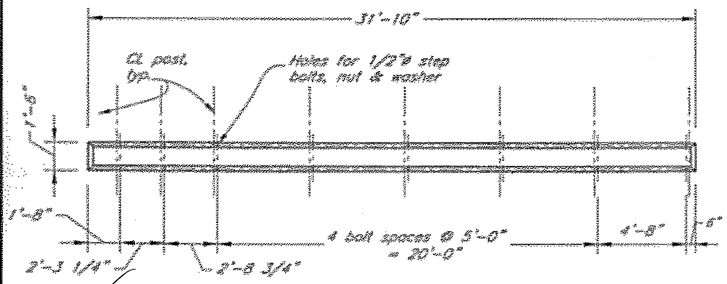
Approach Rail S2
(Elevation looking South)



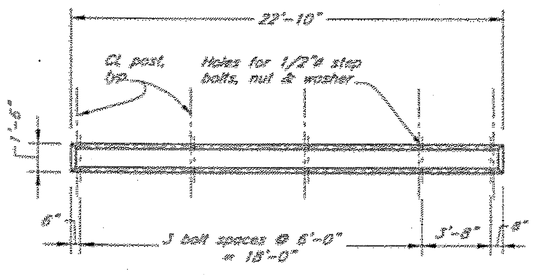
Dock Rail S3
(Elevation looking South)



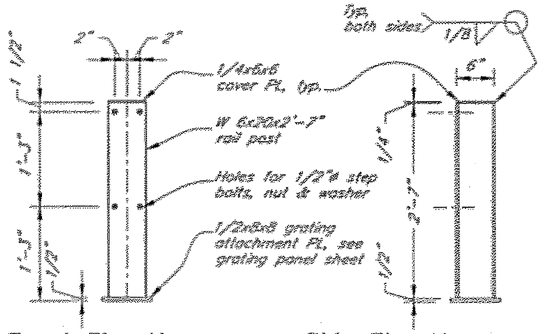
Detail
Rail joint w/sliding sleeve



Dock Rail W2
(Elevation looking West)

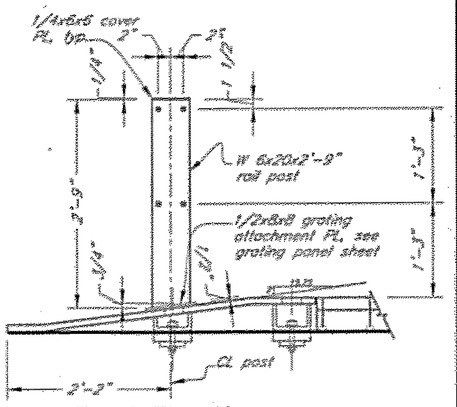


Dock Rail W1
(Elev. looking West)



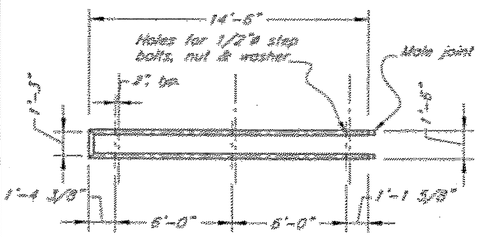
Front Elevation
@ Approach & Dock
(from traffic side)

Side Elevation
@ Approach & Dock
(from traffic side)

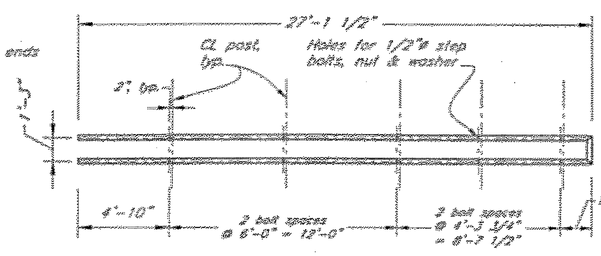


Front Elevation
@ Tr. Br. end of Dock Span 2
(from traffic side)

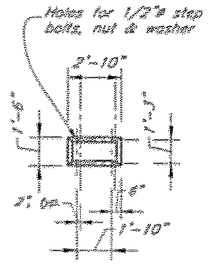
Detail
Traffic Rail Post



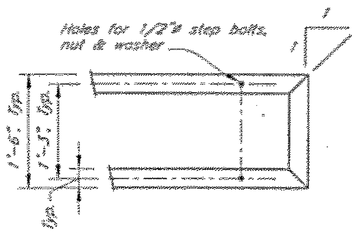
Dock Rail E1
(Elevation looking Southeast)



Dock Rail E2
(Elevation looking Southeast)



Dock Rail E3
(Elevation looking East)



Detail
Rail Return

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

DESIGNED BY: J. Scott
DRAWN BY: E. Morris
CHECKED BY: J. Oveson

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
S.E. REGION DESIGN & ENGINEERING SERVICES DIVISION

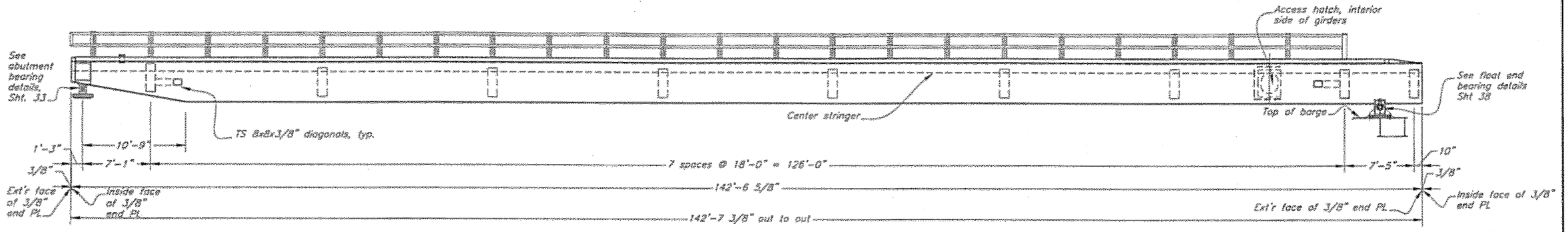
Coffman Cove Ferry Terminal
Project 67844
Approach & Dock Traffic Rails & Post Details

S70-05

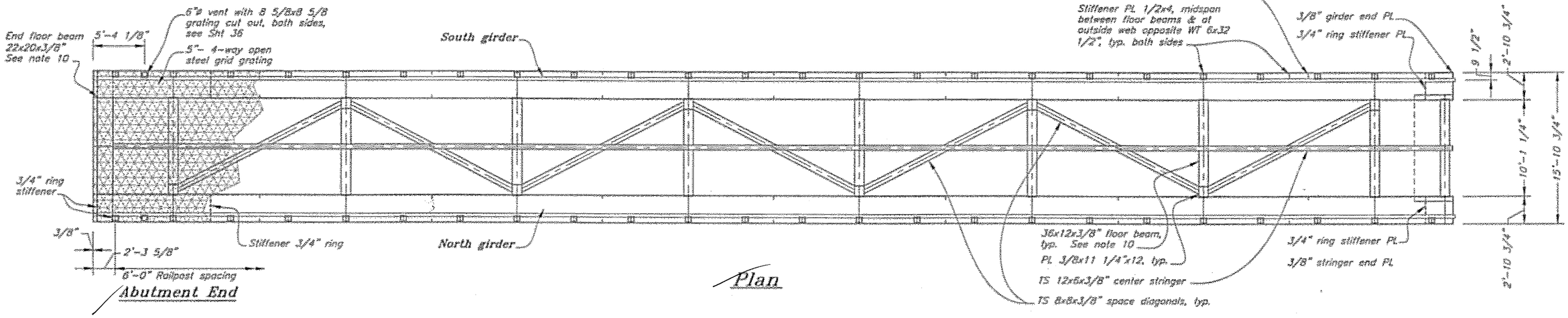
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REVISIONS NO.	DATE	DESCRIPTION	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
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✓ GW 2/07

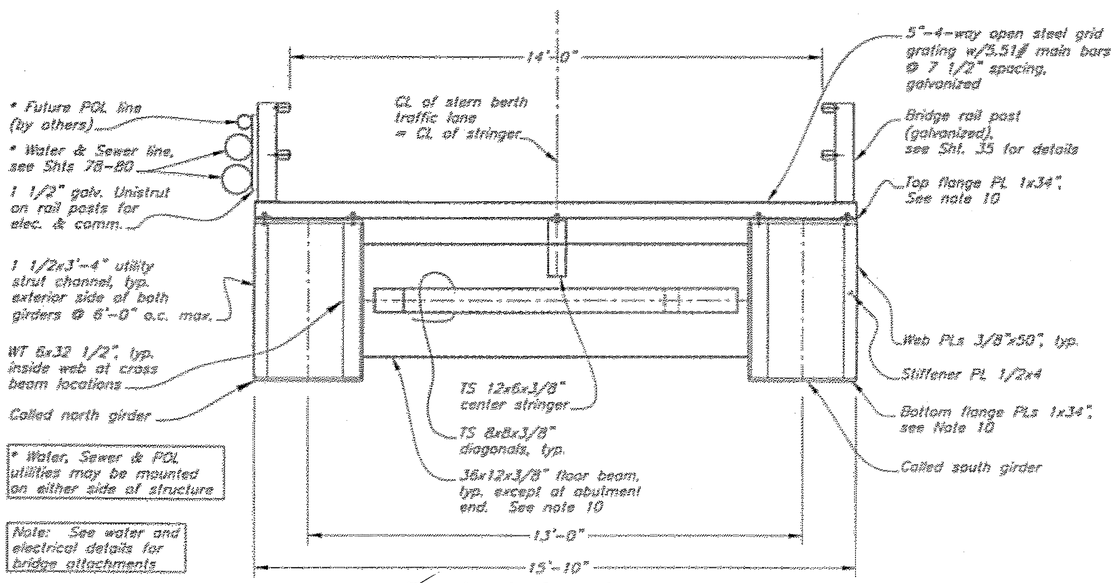


Elevation

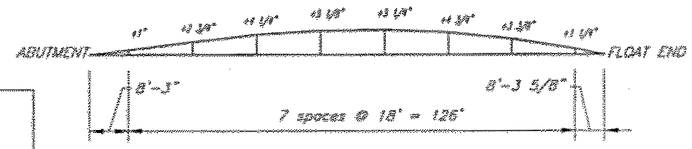


Abutment End

Plan



Typical Section
(Looking towards far end of bridge)



Dead Load Camber Diagram

Note: To compensate for full dead load camber, dimensions are top of girder @ floor beam locations.

NOTES:
1. Design live load = 85 psf pedestrian live load and HS20 vehicle load.
2. All flanges and floor beams shall conform to ASTM A709 Grade 50 or ASTM A572 Grade 50. Webs, stiffeners, shapes and plates shall conform to ASTM A36 or A572 Grade 50(unless specified otherwise). These shall be painted if welded to the bridge and galvanized if bolted to the bridge unless otherwise noted. (Hatch door and hatch hinges to be painted).
3. Ship assembled.
4. No girder splices may be located in middle third of the bridge.
5. Camber to compensate for dead load deflection (see camber diagram below).
6. Approx. weight = 215,000 lbs.
7. Paint entire structure after assembly and prior to installation of grating and walkway cover. Paint all exterior surfaces after fabrication, per System 5. Paint interior of all girder surfaces after fabrication with zinc rich prime coat only, per System 4, see Specifications.
8. All welds joining tubular members and cover or end plates to be seal weld.
9. The following members are considered main members subject to tensile stress and require Charpy Impact Testing. See girder detail sheets and the Technical Specifications.
   A. Lower girder flanges
   B. Floor beams
10. The main girders are also considered fracture critical and the lower flange plates require a fracture control plan. See girder detail sheets and the Technical Specifications.

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

DESIGNED BY: B. Seyfert
CHECKED BY: J. Beedle
DRAWN BY: Staff

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
S.E. REGION DESIGN & ENGINEERING SERVICES DIVISION

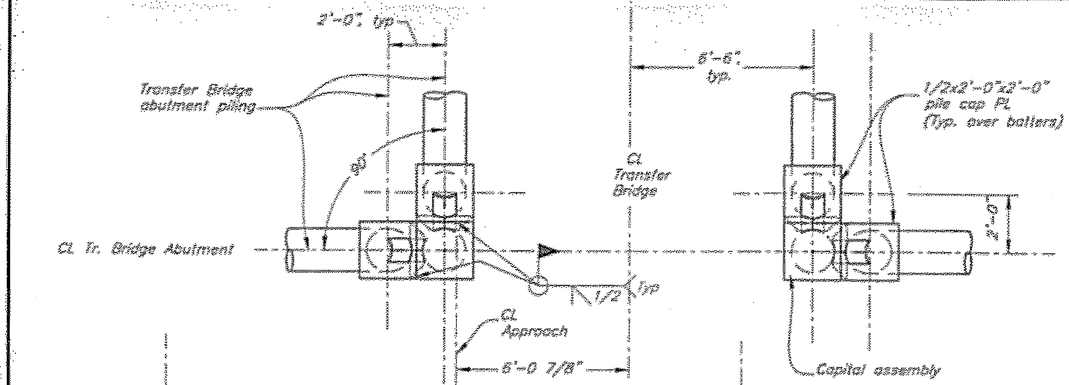
Coffman Cove Ferry Terminal
Project 67844

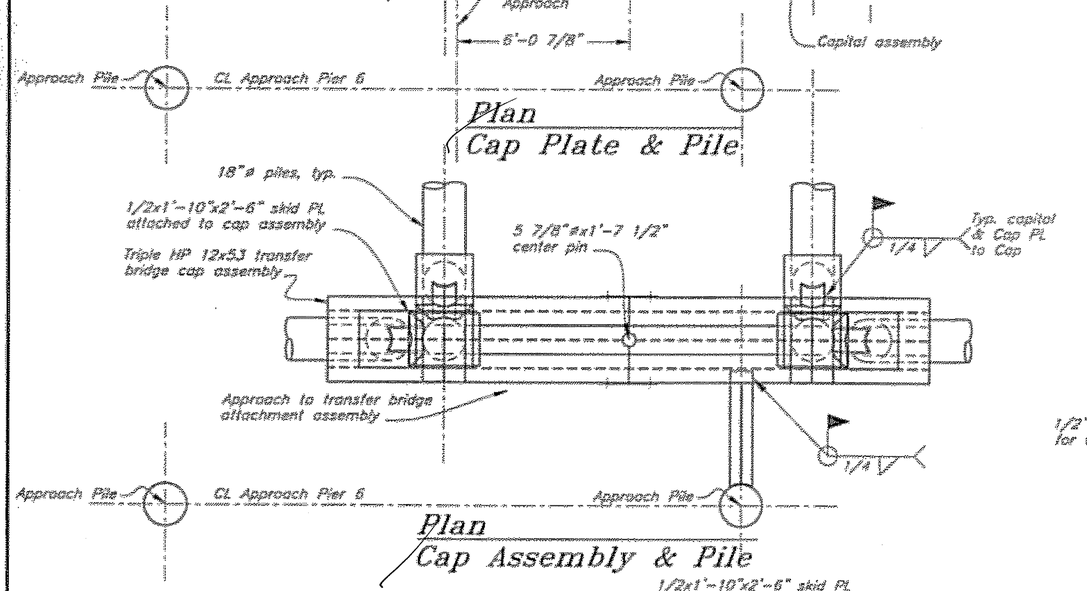
Transfer Bridge Plan & Elevation

PATH: D:\Pw\67844\Mf\Planset\31 Transfer Bridge Plan & Elevation
PLOT: PSPACE 1=1 Thu, 24-Feb-05 10:42AM

REVISIONS NO.	DATE	DESCRIPTION	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
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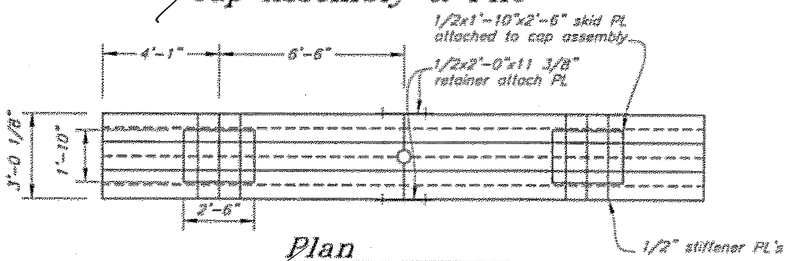
V GW 2/07



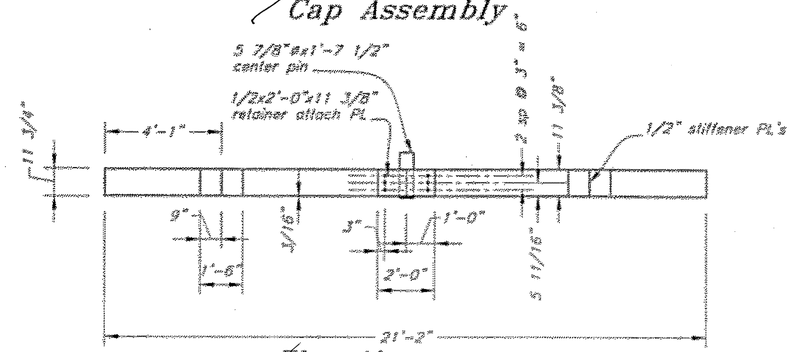


Plan
Cap Plate & Pile

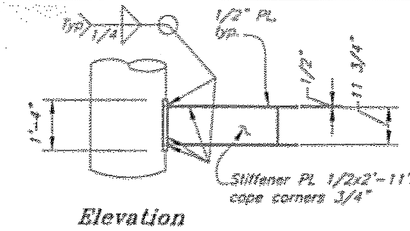
Plan
Cap Assembly & Pile



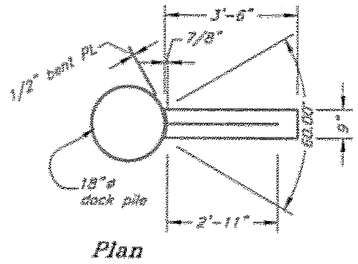
Plan
Cap Assembly



Elevation
Cap Assembly

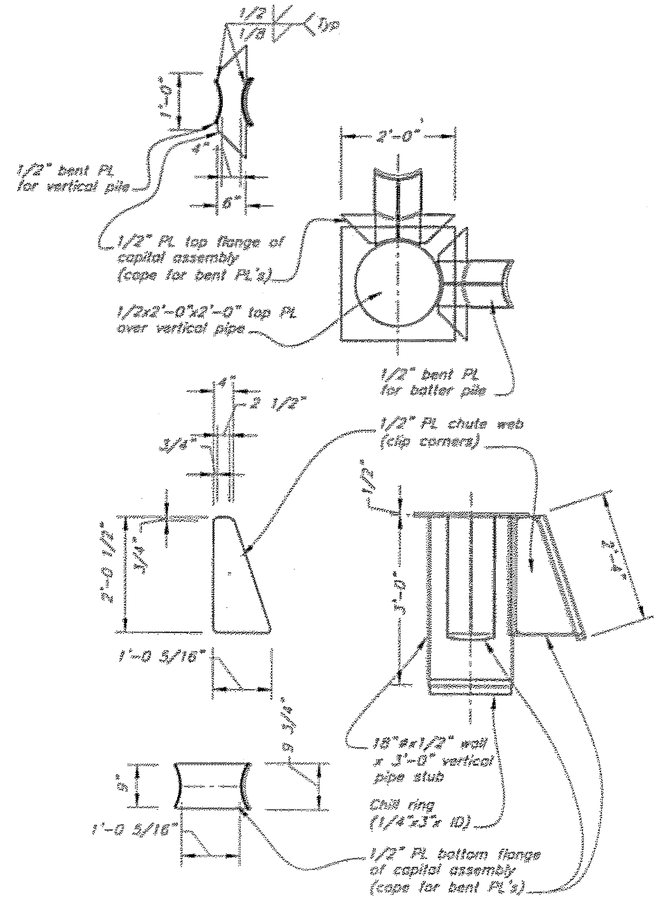


Elevation

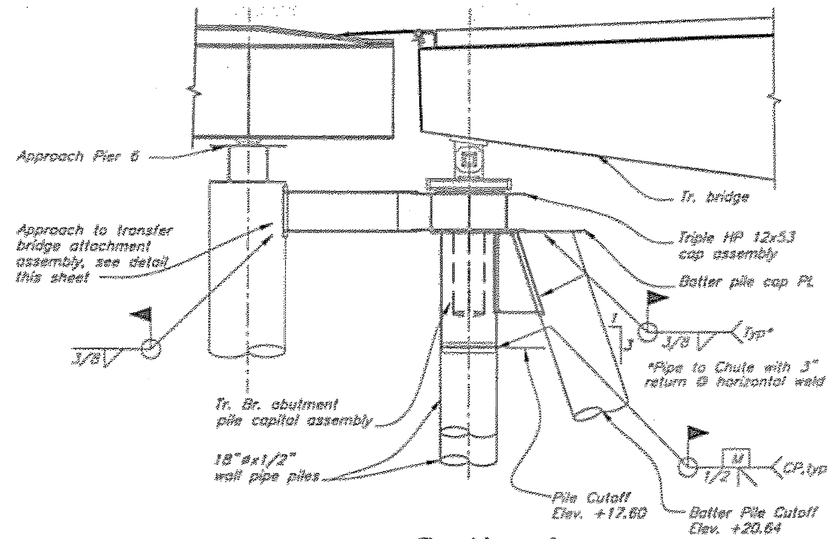


Plan

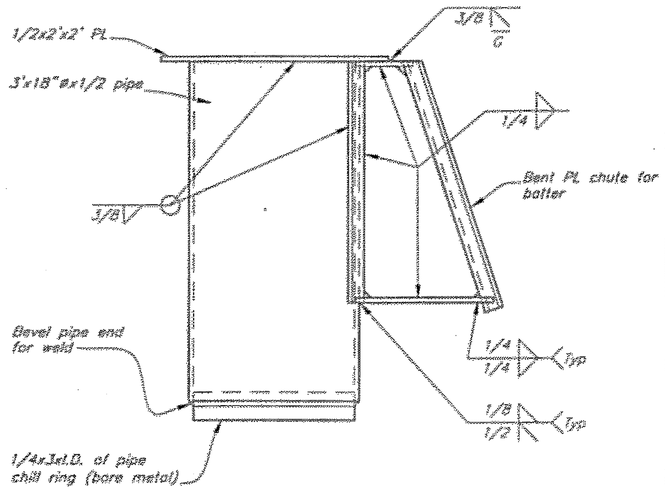
Attachment Assembly



Steel Abutment
Pile Capital
(with batter chutes)



Sectional
Elevation



Elevation
Capital

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

DESIGNED BY: J. Scott
DRAWN BY: J. Scott, T. Moses
CHECKED BY: J. Beedle

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
S.E. REGION DESIGN & ENGINEERING SERVICES DIVISION

Coffman Cove Ferry Terminal
Project 67844

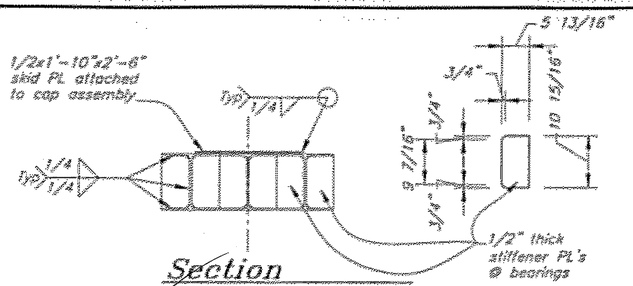
Transfer Bridge Abutment

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Wed 22/Feb/05 11:34AM

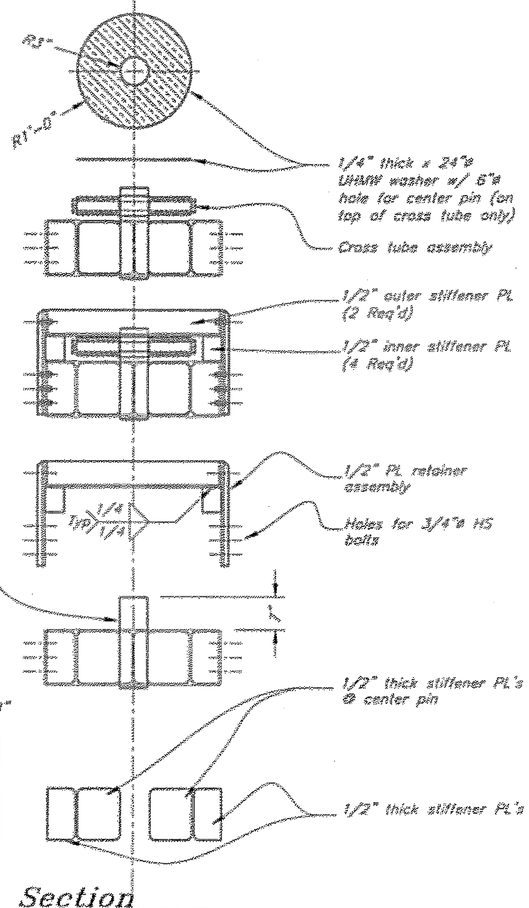
NO	DATE	REVISIONS DESCRIPTION

PROJECT DESIGNATION	YEAR	SHEET NO	TOTAL SHEETS
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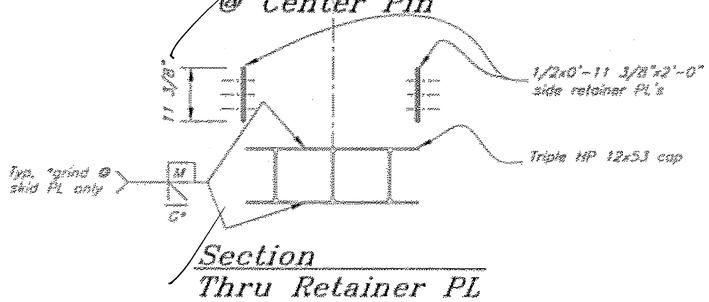
JMB 2/07



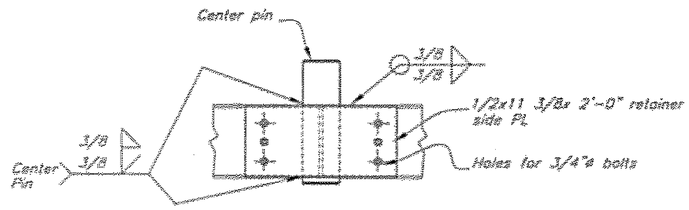
Section
@ Brg Location



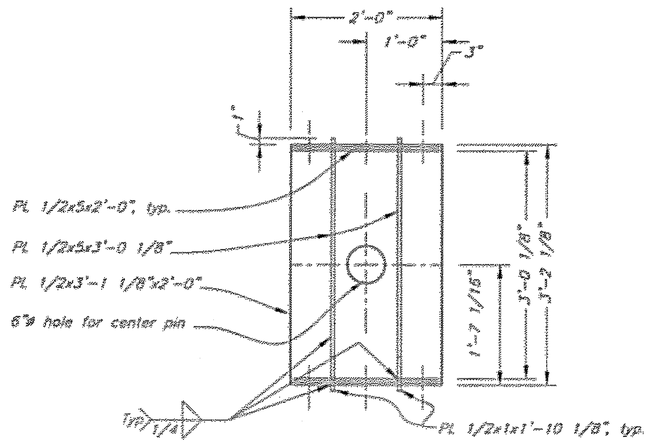
Section
@ Center Pin



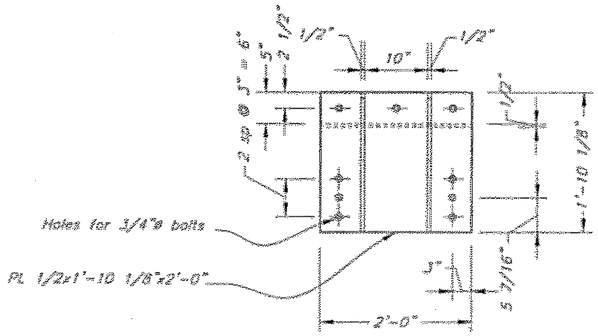
Section
Thru Retainer PL



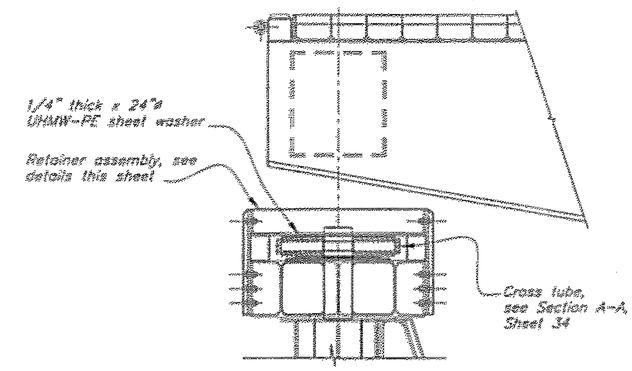
Elevation
Retainer Plate @
Center Pin



Plan
Retainer Plate @
Center Pin

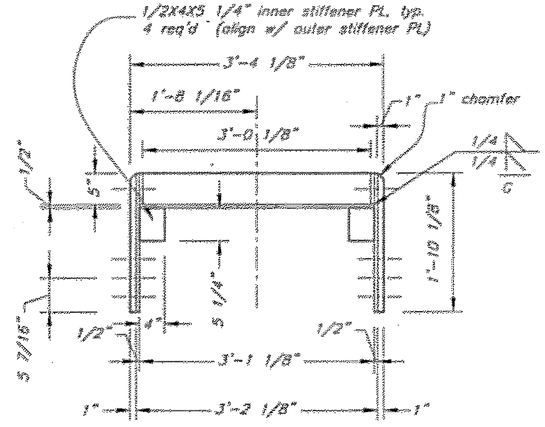


Retainer Assembly



Side Elevation

Section
@ Abutment CL



Elevation
Retainer Plate

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

DESIGNED BY: J. Scott
DRAWN BY: J. Scott, T. Morris
CHECKED BY: J. Brindle

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
S.E. REGION DESIGN & ENGINEERING SERVICES DIVISION

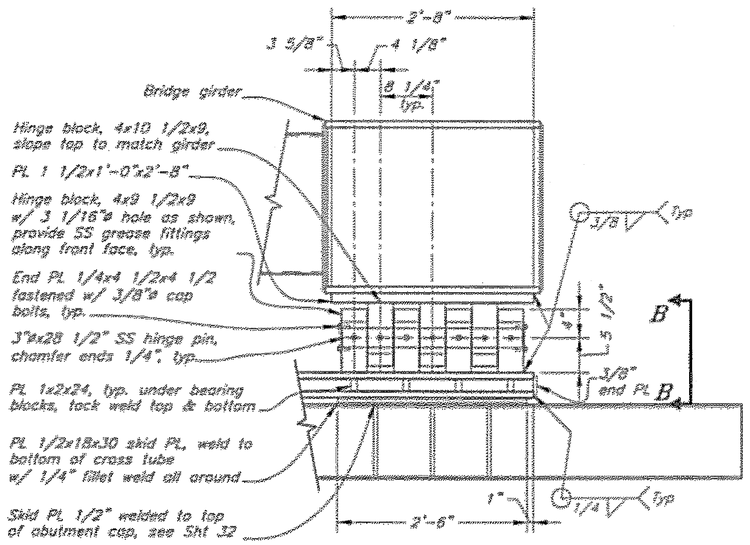
Coffman Cove Ferry Terminal
Project 67844

Transfer Bridge Abutment Details

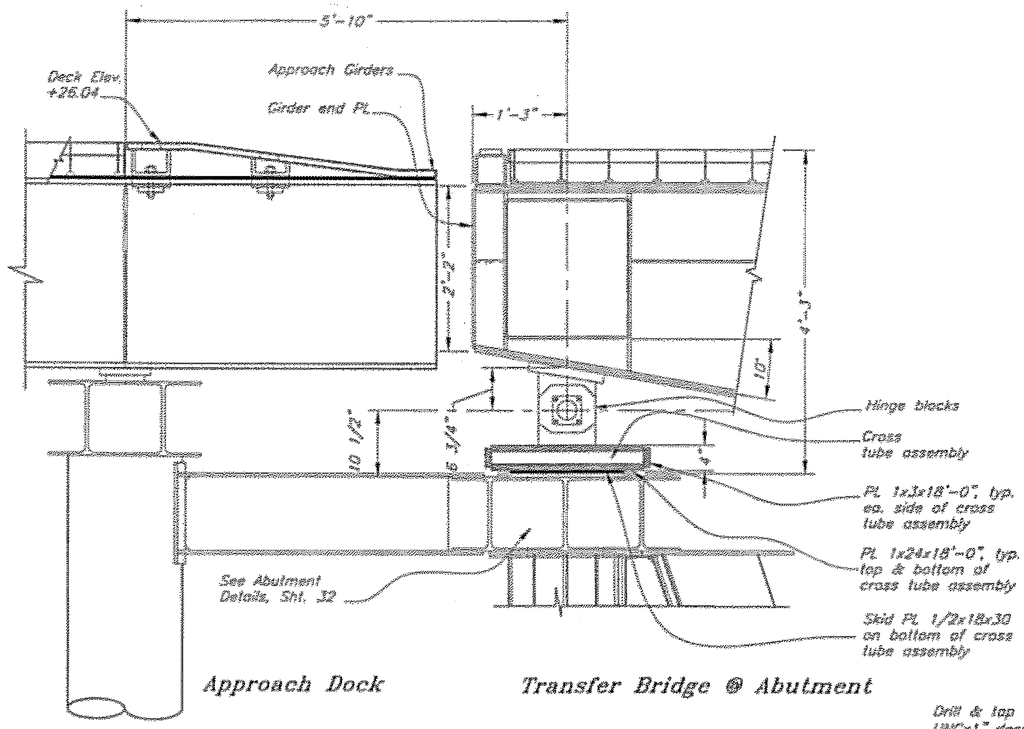
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PLOT: PSPACE 1=1
Thu, 24/Feb/05 10:43AM

REVISIONS NO	DATE	DESCRIPTION	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			67844	2005	33	99

2/07

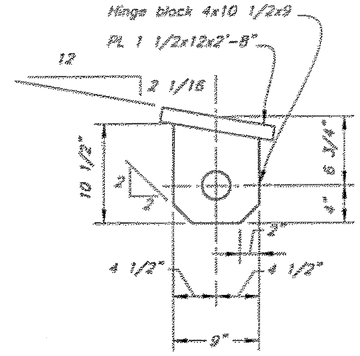


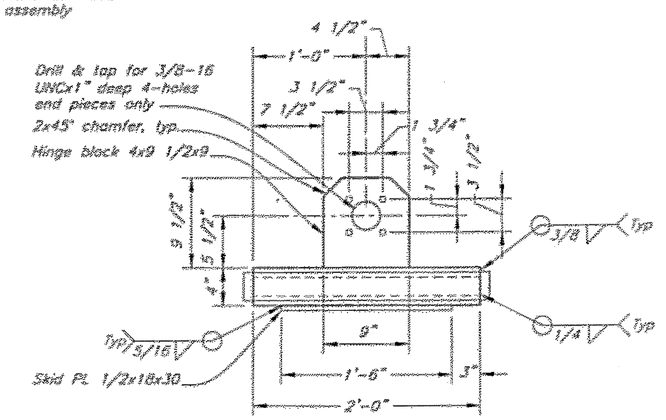
Front Elevation



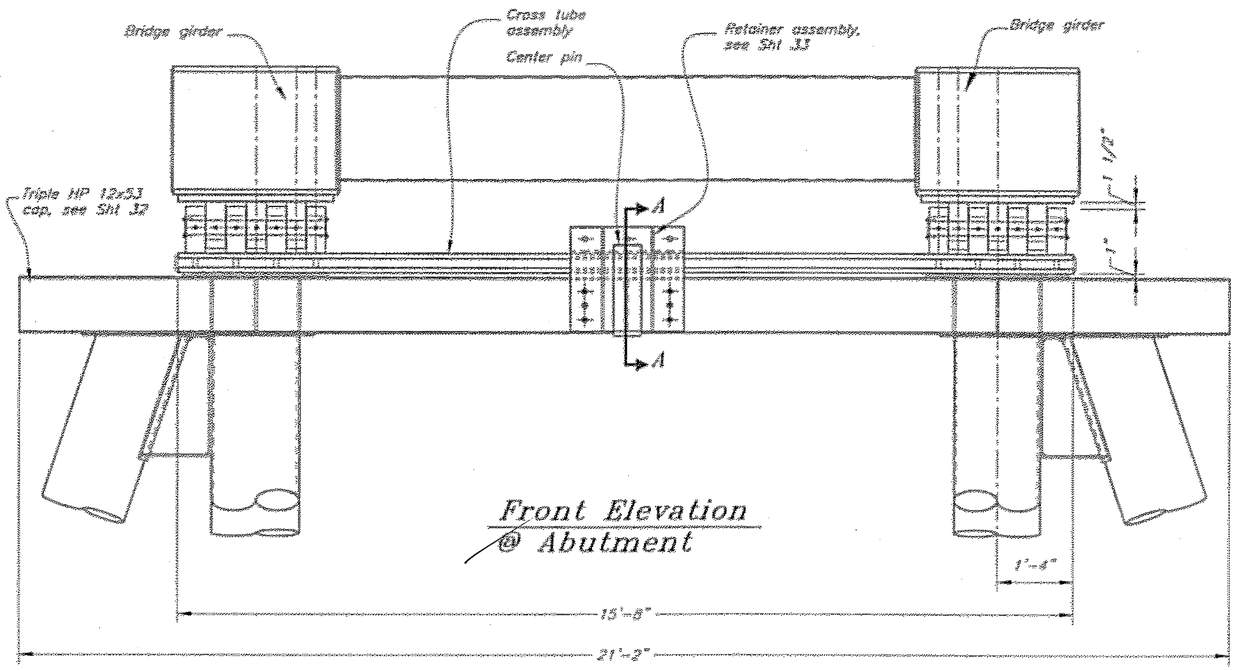
Sectional Elevation

Note: Hinge blocks shall have a 1/8" deep grease groove along inside circumference at midpoint, typ.

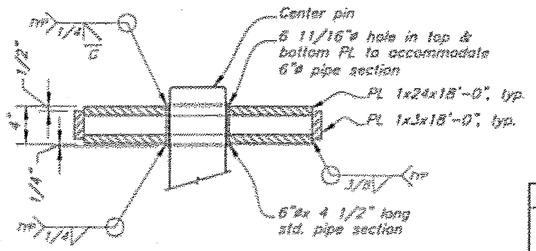




View B-B
Abutment Hinge



Front Elevation @ Abutment



Section A-A
Cross Tube @ Center Pin
Cap & retainer not shown

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

DESIGNED BY: J. Scott
DRAWN BY: T. Mores
CHECKED BY: J. Scott
PATH: O:\Pow\67844\Mdl\Pioneer\34 D Br Abut Bearings.dwg
PLOT: PSPACE 1=1 Tue, 24/May/05 10:43AM

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
S.E. REGION DESIGN & ENGINEERING SERVICES DIVISION

Coffman Cove Ferry Terminal
Project 67844

Bridge Abutment Bearings

NO	DATE	REVISIONS DESCRIPTION

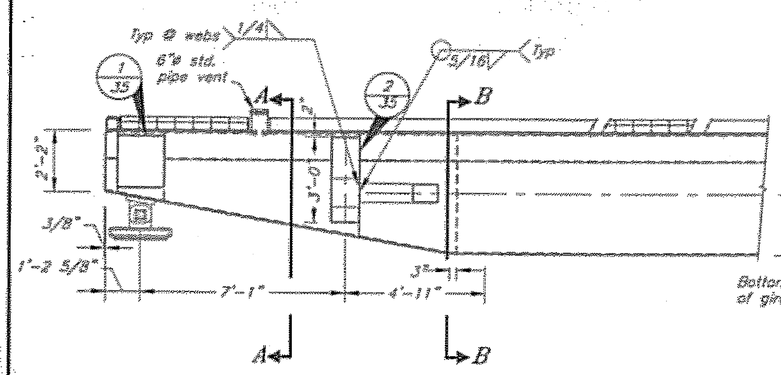
PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
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J 2/07

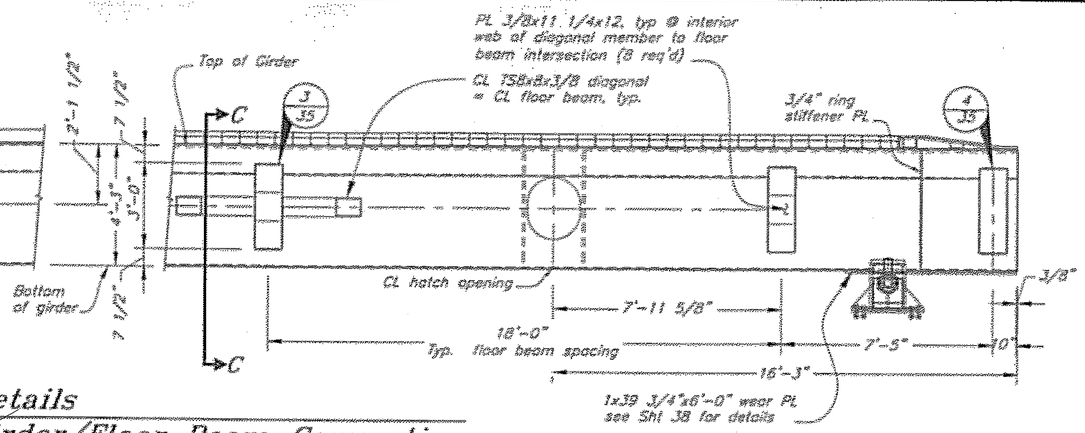
Details

Girder/Floor Beam Connection

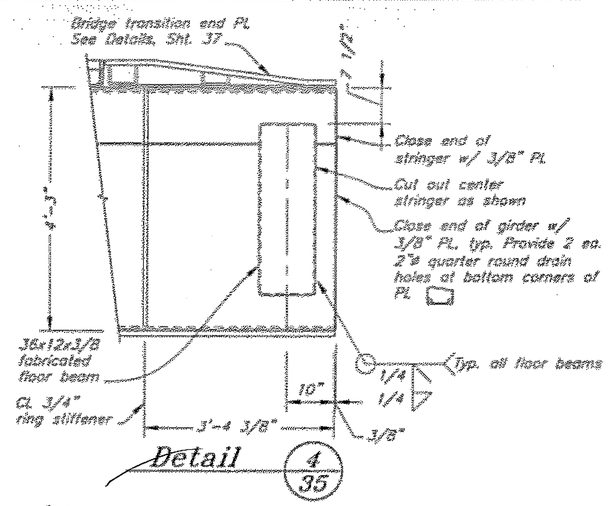
(South Girder Shown - Elevation Similar Both Sides)



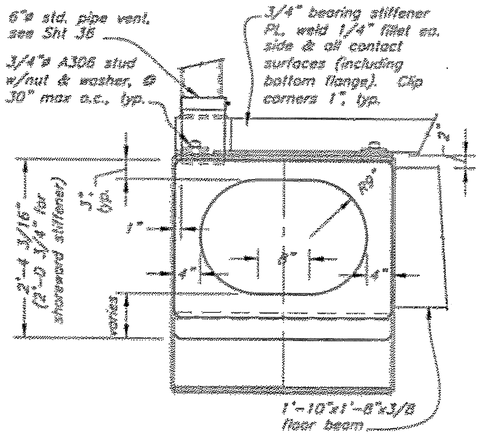
Abutment End



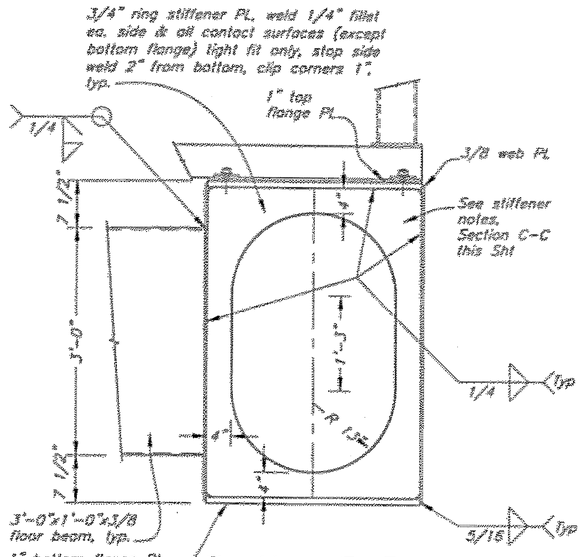
Barge End



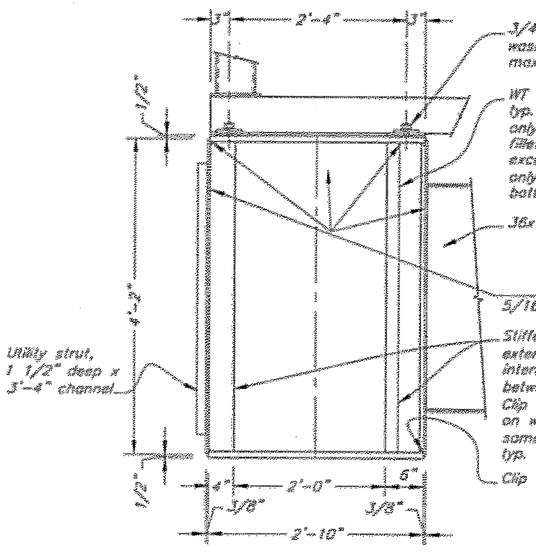
Detail 4/35



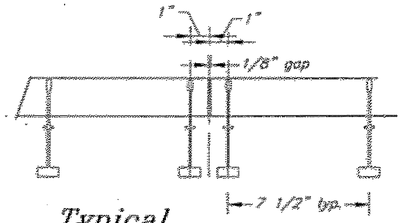
Section A-A
looking shoreward on south girder



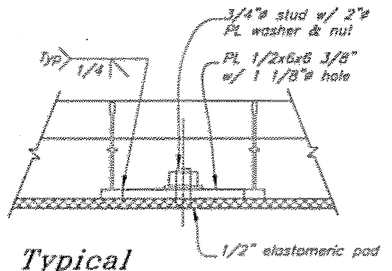
Section B-B
looking towards end of bridge on north girder



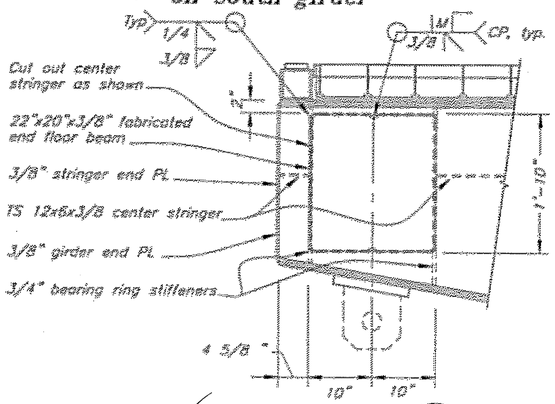
Section C-C
looking towards end of bridge on south girder



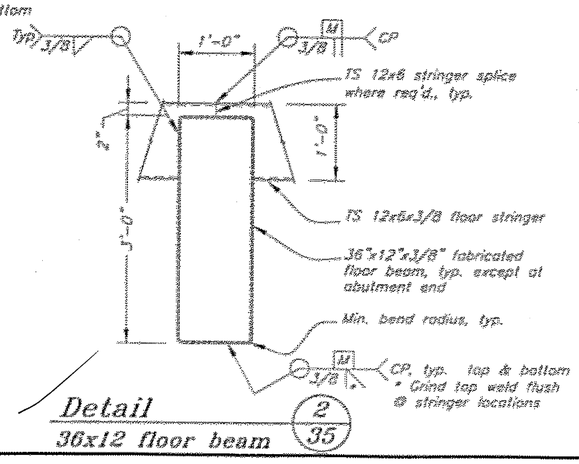
Typical Grating Joint



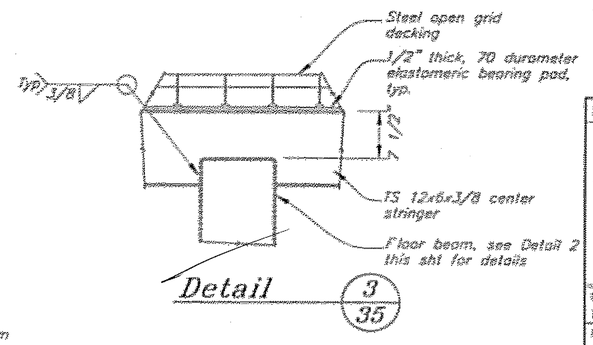
Typical Grating Connection



Detail end floor beam 1/35



Detail 36x12 floor beam 2/35



Detail 3/35

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

DESIGNED BY: B. Sowles
CHECKED BY: J. Scott
DRAWN BY: J. Scott, T. Mores
DATE: D:\Proj\67844\MF\Planset\35 Fr Br Girders.dwg
PLOT: PSPACE 1=1
Wed, 23/Feb/05 03:10PM

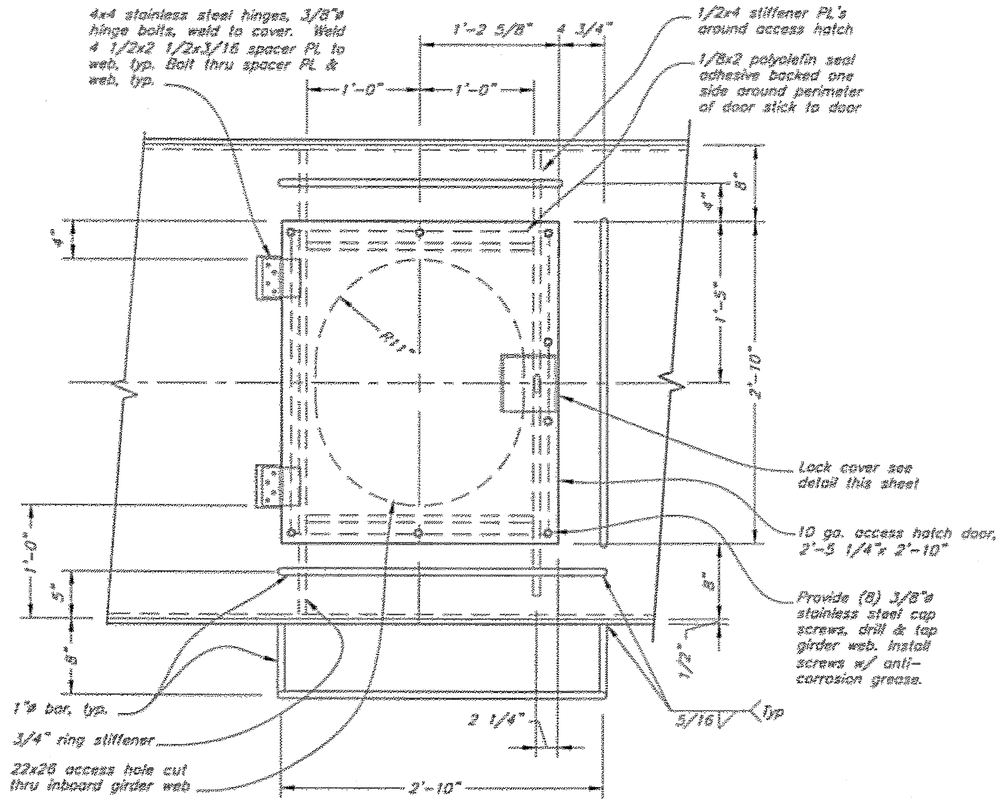
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
S.E. REGION DESIGN & ENGINEERING SERVICES DIVISION

STATE OF ALASKA 49th John T. Scott CE-4755 REGISTERED PROFESSIONAL ENGINEER
3-10-05

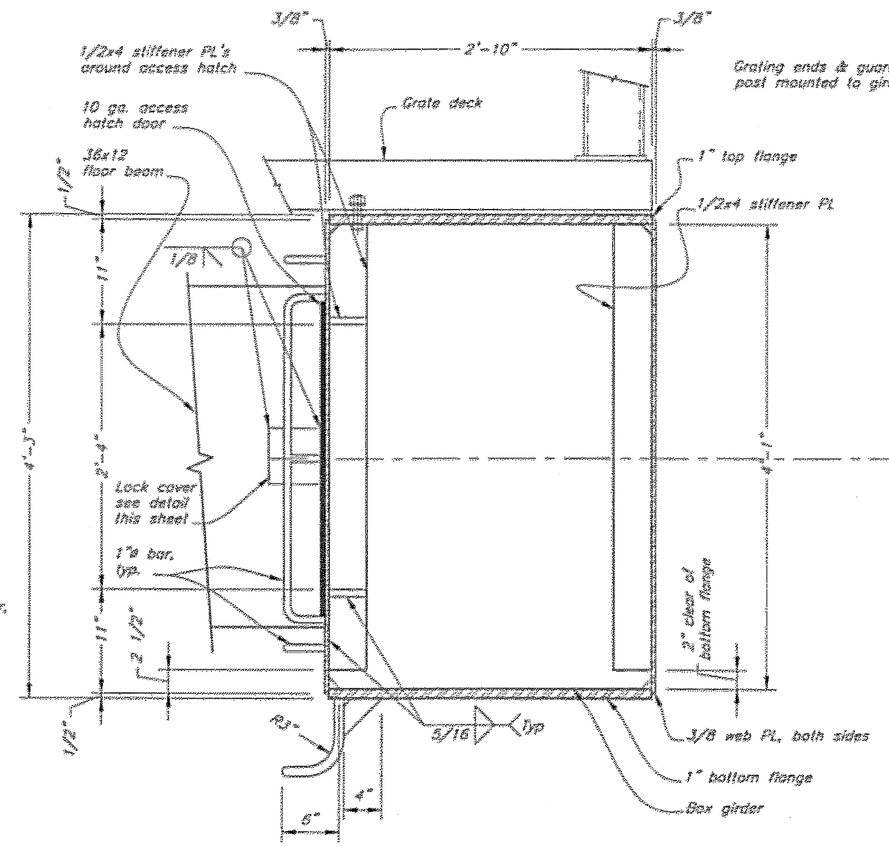
Coffman Cove Ferry Terminal
Project 67844
Bridge Girder Details

REVISIONS NO.	DATE	DESCRIPTION	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
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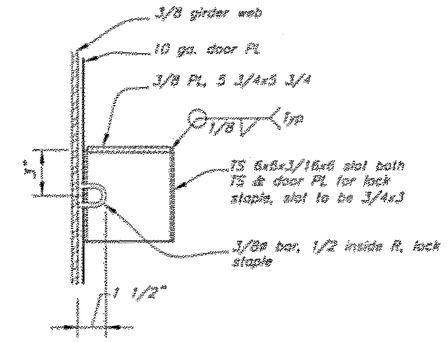
✓ JMB 2/07



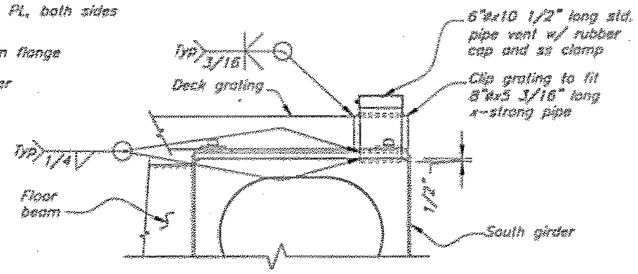
Detail Elevation Access Hatch



Section A–A

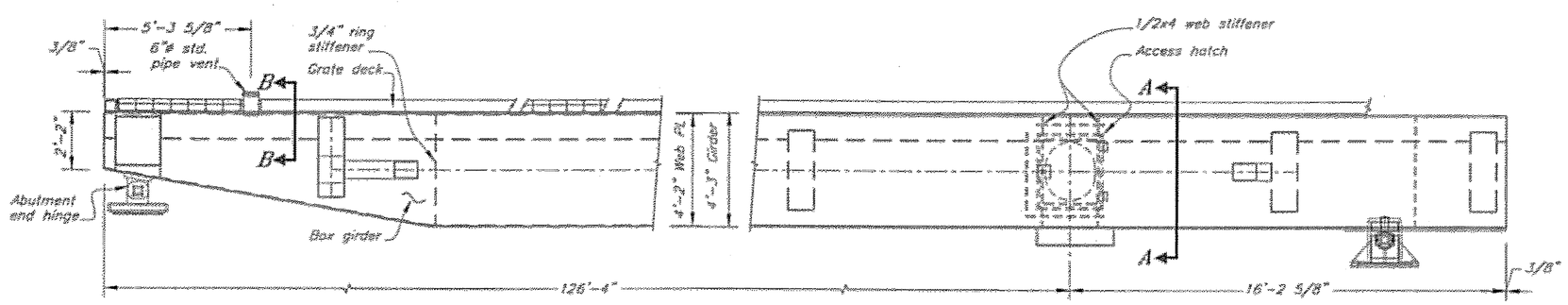


Detail Lock Cover



Section B–B

North girder
(South girder opposite hand)



Elevation Access Hatch Locations North Girder

Similar Both Sides

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

DESIGNED BY: B. Savikko
DRAWN BY: J. Scott, T. Mores
CHECKED BY: J. Scott

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
S.E. REGION DESIGN & ENGINEERING SERVICES DIVISION

Coffman Cove Ferry Terminal
Project 67844

Bridge Hatch & Vent Details

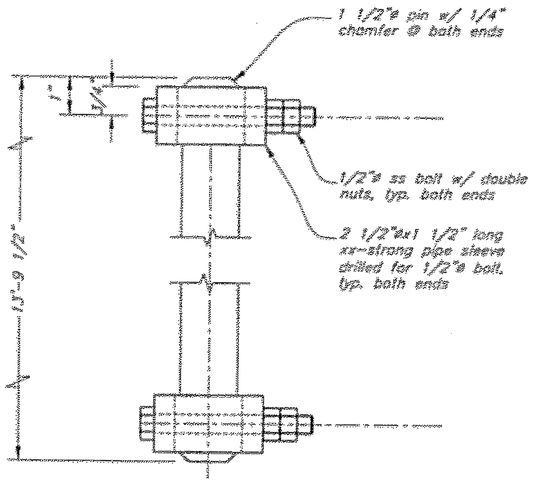
3-10-05

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PLOT: PSPACE 1=1 TAB: DETAIL

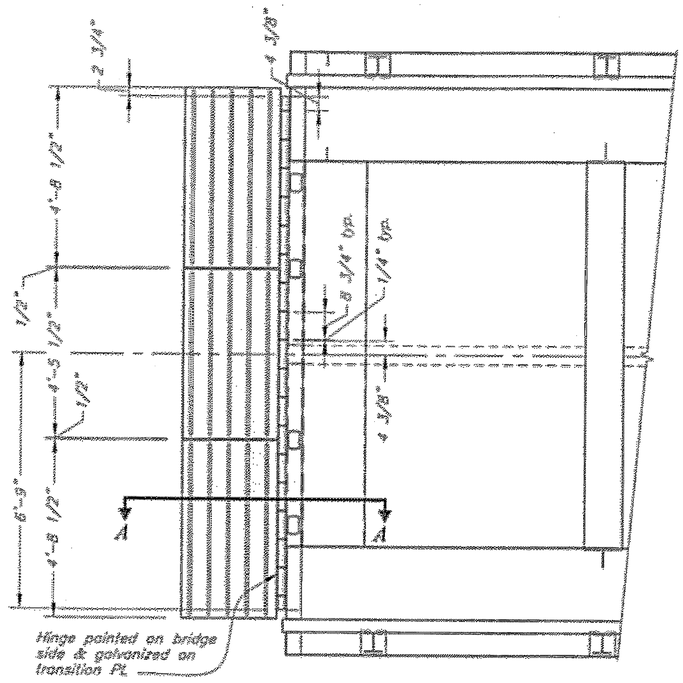
NO	DATE	REVISIONS DESCRIPTION

PROJECT DESIGNATION	YEAR	SHEET NO	TOTAL SHEETS
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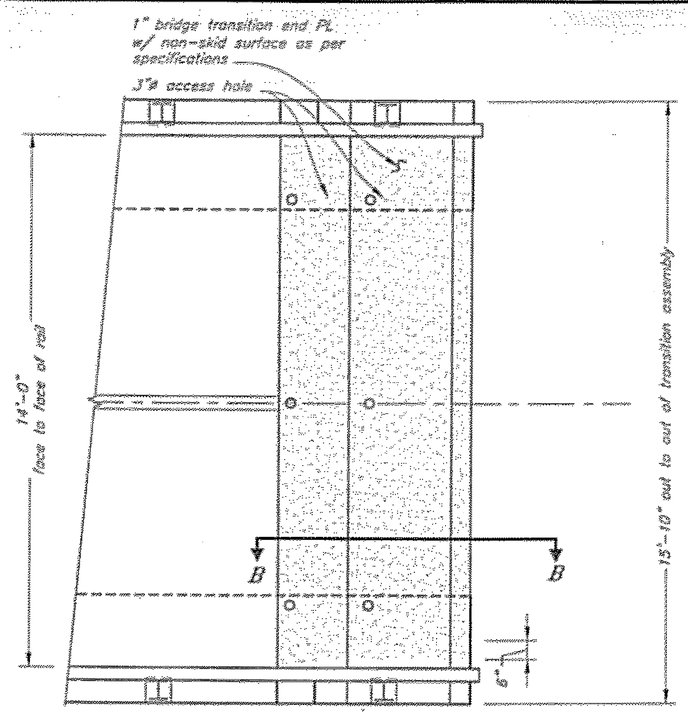
✓ 2/07



Detail
Hinge Pin

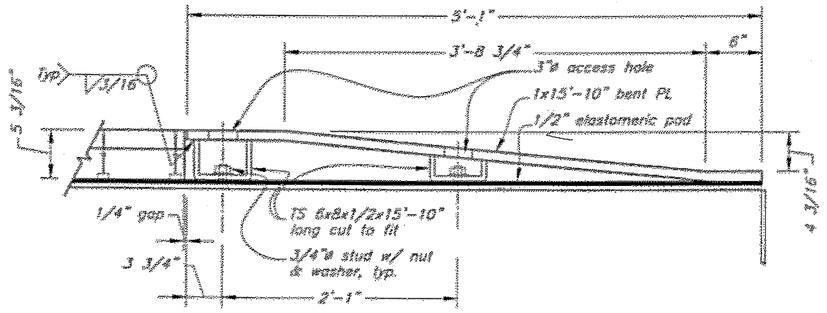


Abutment End

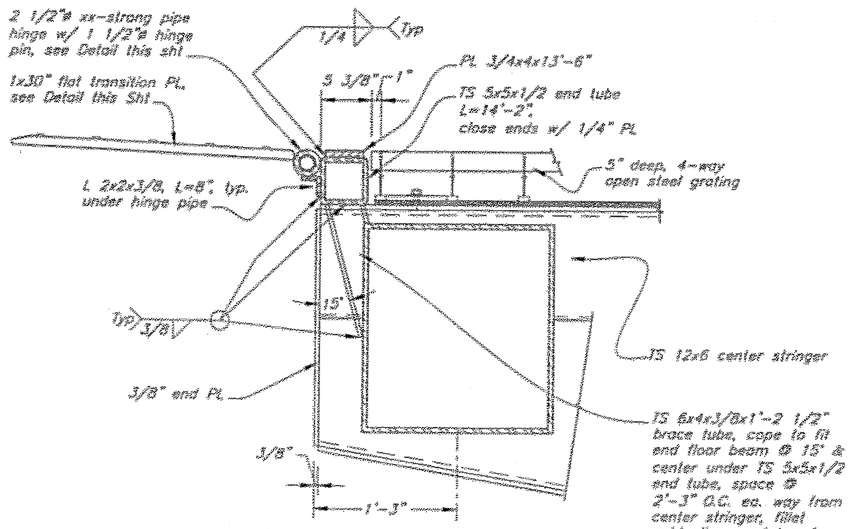


Barge End

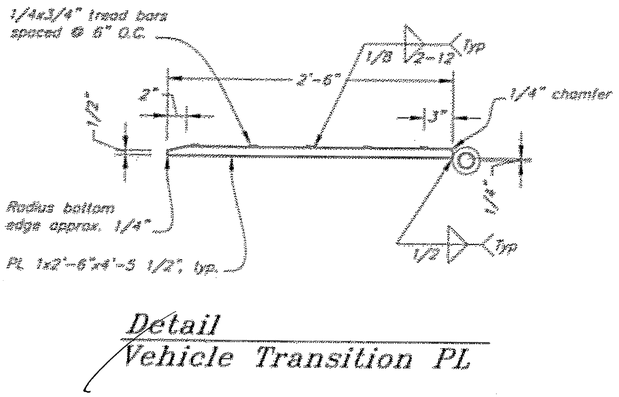
Plan
Bridge Transition Plate



Section B-B
Bridge transition end PL Assembly



Section A-A
End Tube, Brace & Transition PL



Detail
Vehicle Transition PL

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

DESIGNED BY: J. Scott
DRAWN BY: J. Scott, F. Mares
CHECKED BY: J. Scott
PATH: d:\Pw\67844\dft\Planset\37 Tr Bridge Transition Assembly.dwg
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Thu, 15/Feb/05 10:30AM

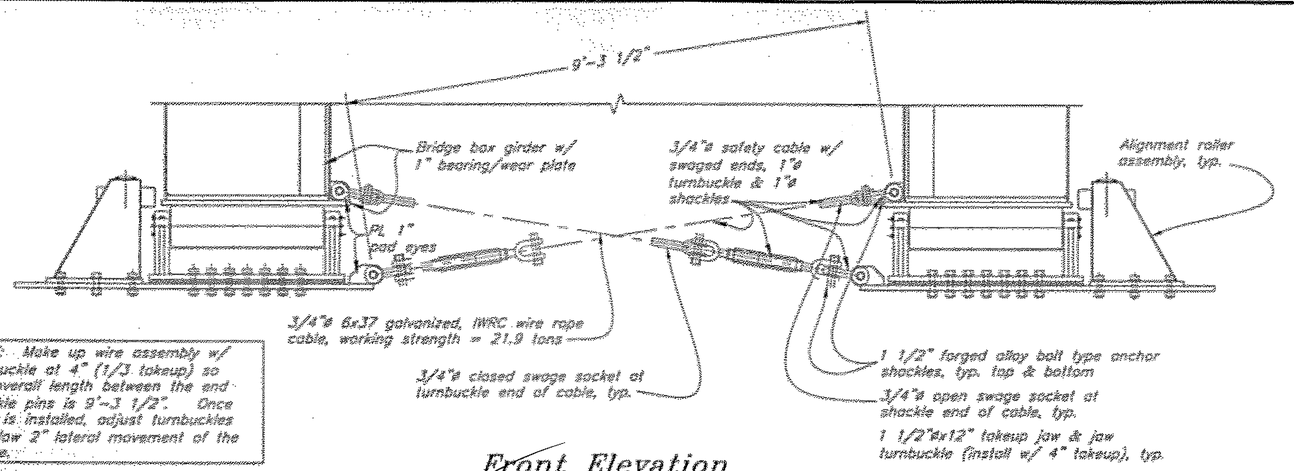
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
S.E. REGION DESIGN & ENGINEERING SERVICES DIVISION

Coffman Cove Ferry Terminal
Project 67844

Bridge Transition Plate Details

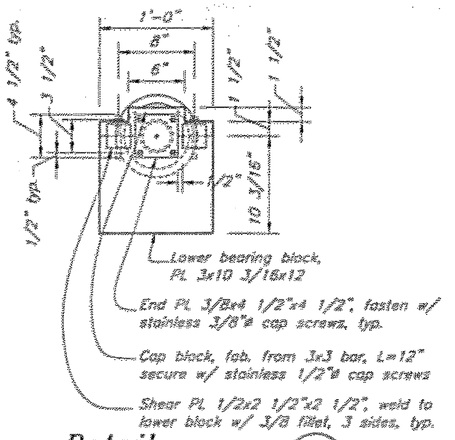
REVISIONS NO	DATE	DESCRIPTION	PROJECT DESIGNATION	YEAR	SHEET NO	TOTAL SHEETS
			67844	2005	37	99

2/07

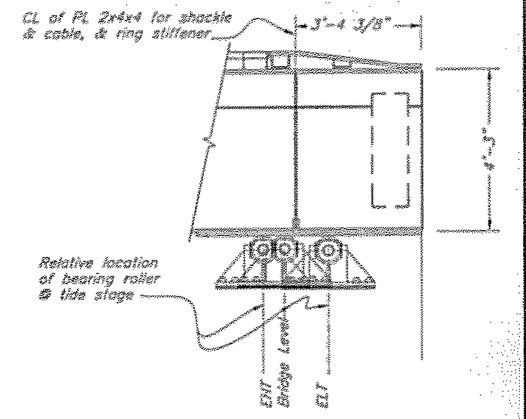


NOTE: Make up wire assembly w/ turnbuckle at 4" (1/3 takeup) so the overall length between the end shackle pins is 9'-3 1/2". Once rope is installed, adjust turnbuckles to allow 2" lateral movement of the bridge.

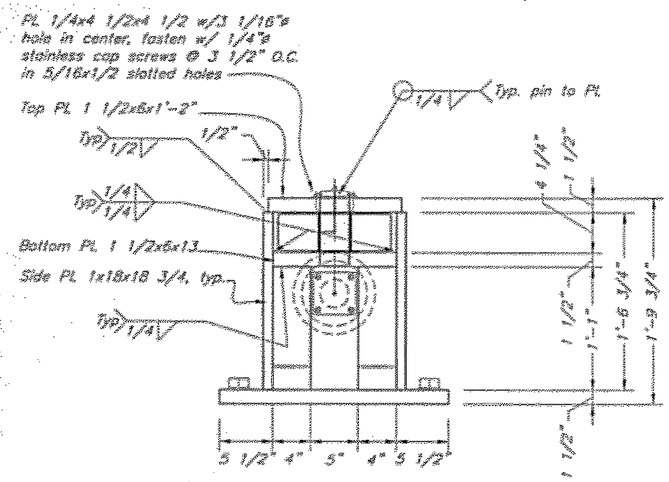
Front Elevation
Alignment Cable Detail



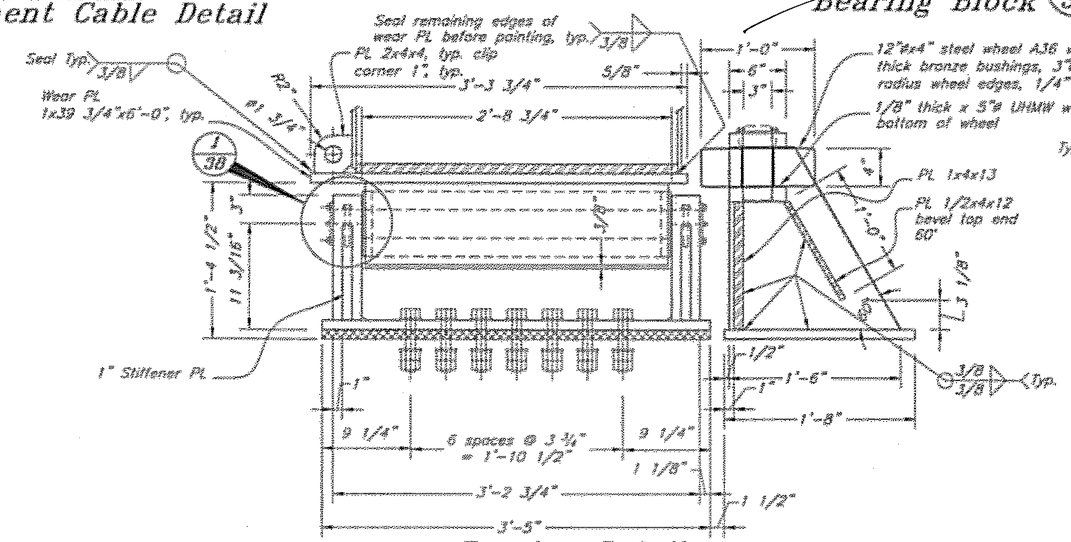
Detail
Bearing Block (2/38)



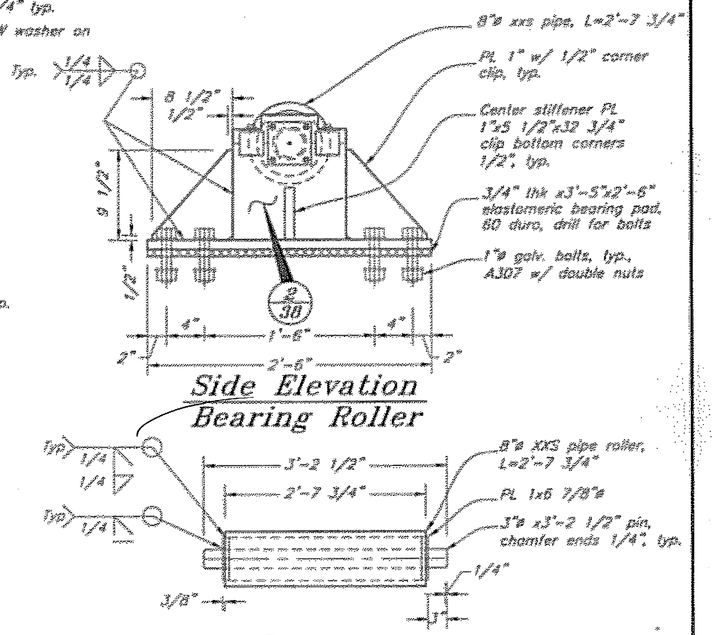
Side Elevation
Barge End



Side Elevation
Alignment Roller Assembly

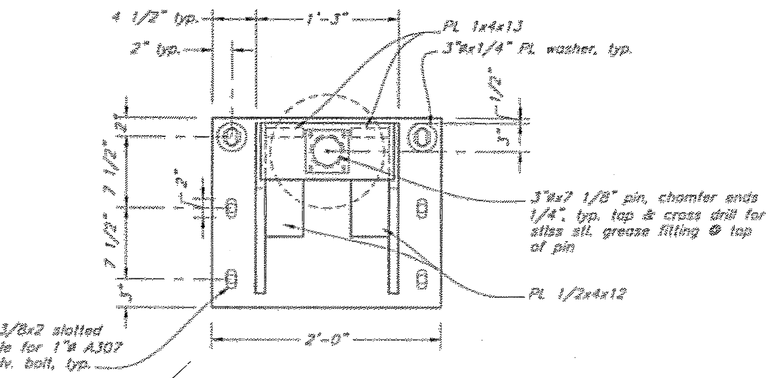


Bearing Detail

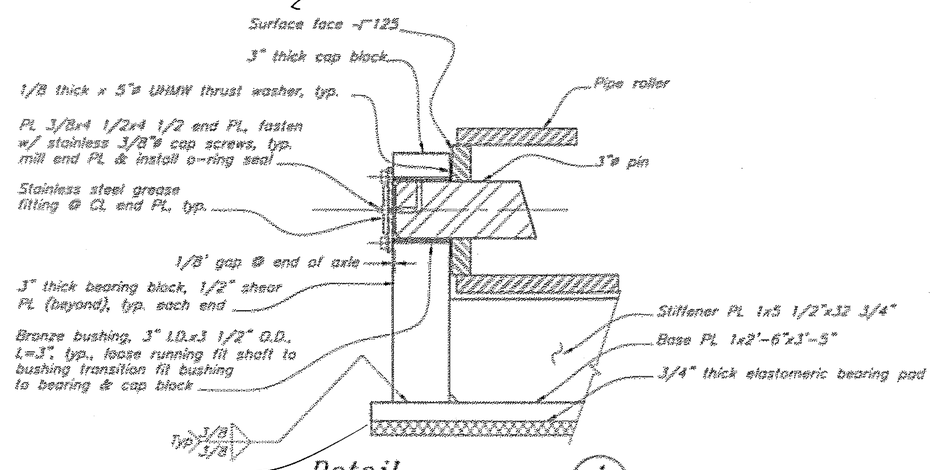


Side Elevation
Bearing Roller

Roller Detail



Top View
Alignment Roller Assembly



Detail
(Section thru roller centerline) (1/38)

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

DESIGNED BY: B. Sovilla
DRAWN BY: J. Scott, T. Stores
CHECKED BY: J. Scott

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
S.E. REGION DESIGN & ENGINEERING SERVICES DIVISION

John L. Scott
CE-4755
5-10-05

Coffman Cove Ferry Terminal
Project 67844

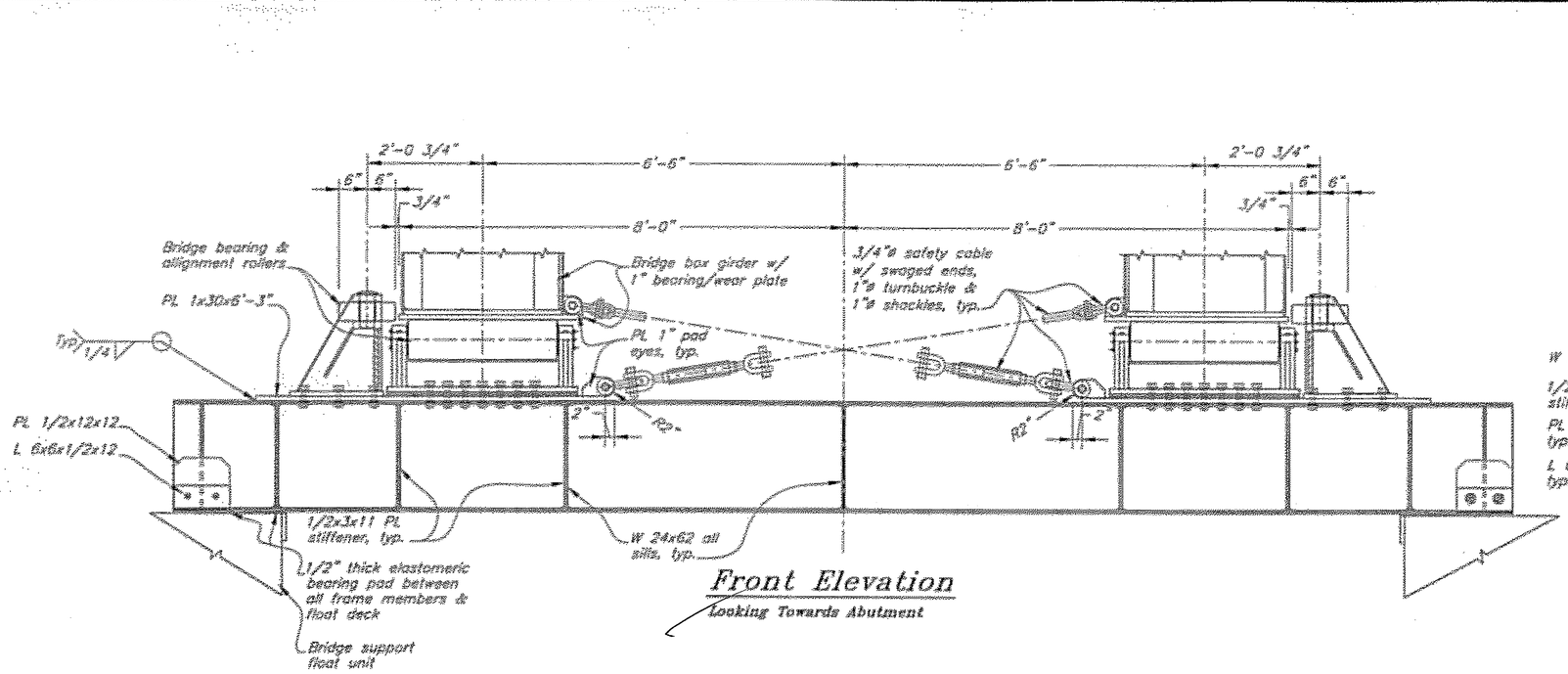
Bridge Float End Bearing Details

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PLOT: PSPACE 1=1
TAB: DETAIL
last 16/Feb/05 01:15PM

NO	DATE	REVISIONS DESCRIPTION

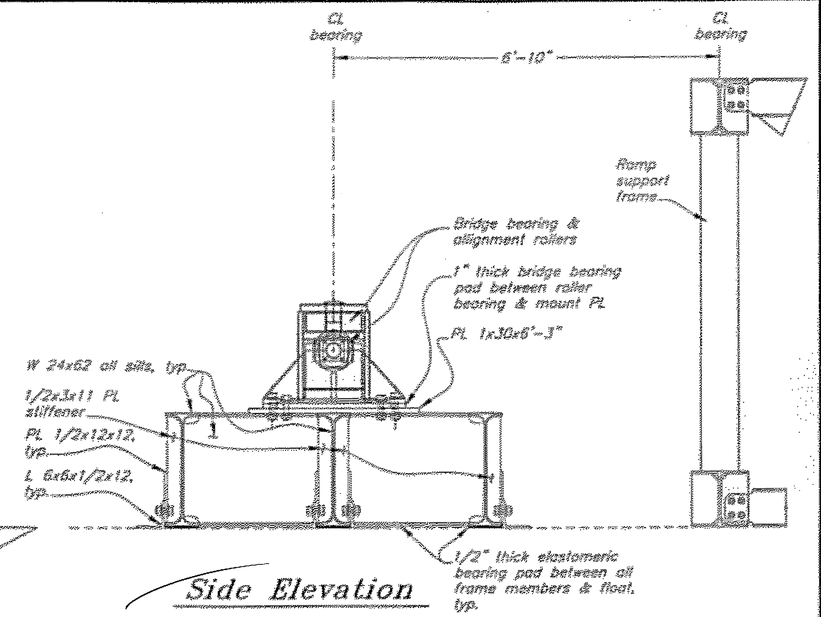
PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
67844	2005	38	99

J GM 2/07

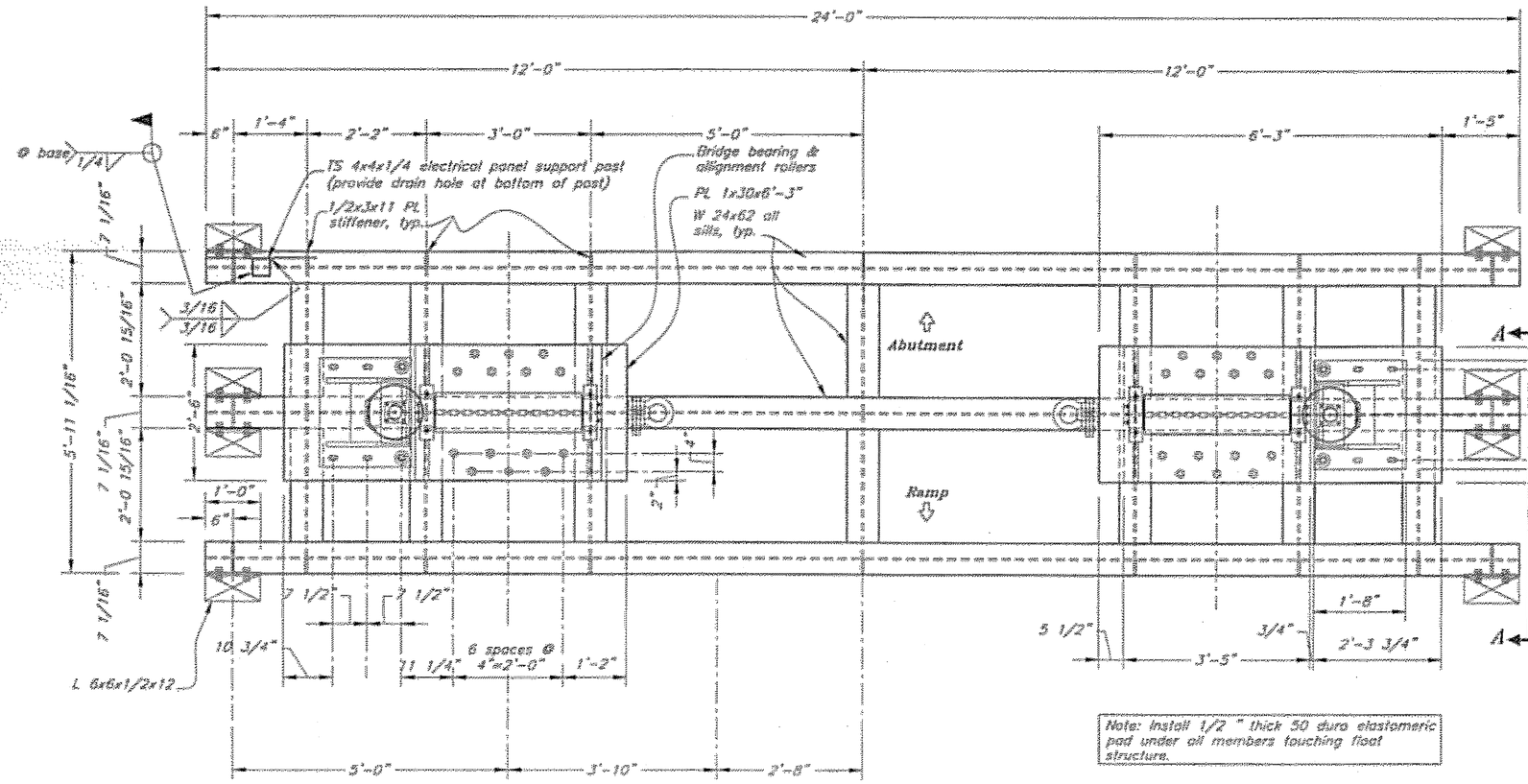


Front Elevation

Looking Towards Abutment

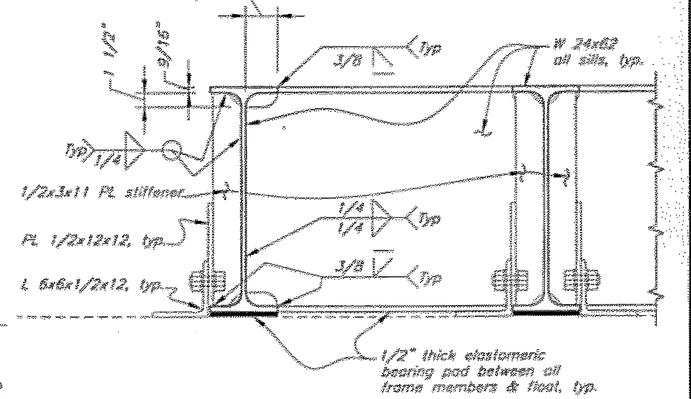


Side Elevation



Note: Install 1/2 " thick 50 duro elastomeric pad under all members touching float structure.

Plan
Bridge Float End Bearing Support



Section A-A

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DESIGNED BY: J. Scott

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
S.E. REGION DESIGN & ENGINEERING SERVICES DIVISION

Coffman Cove Ferry Terminal
Project 67844

Bridge Float End Bearing Support Details

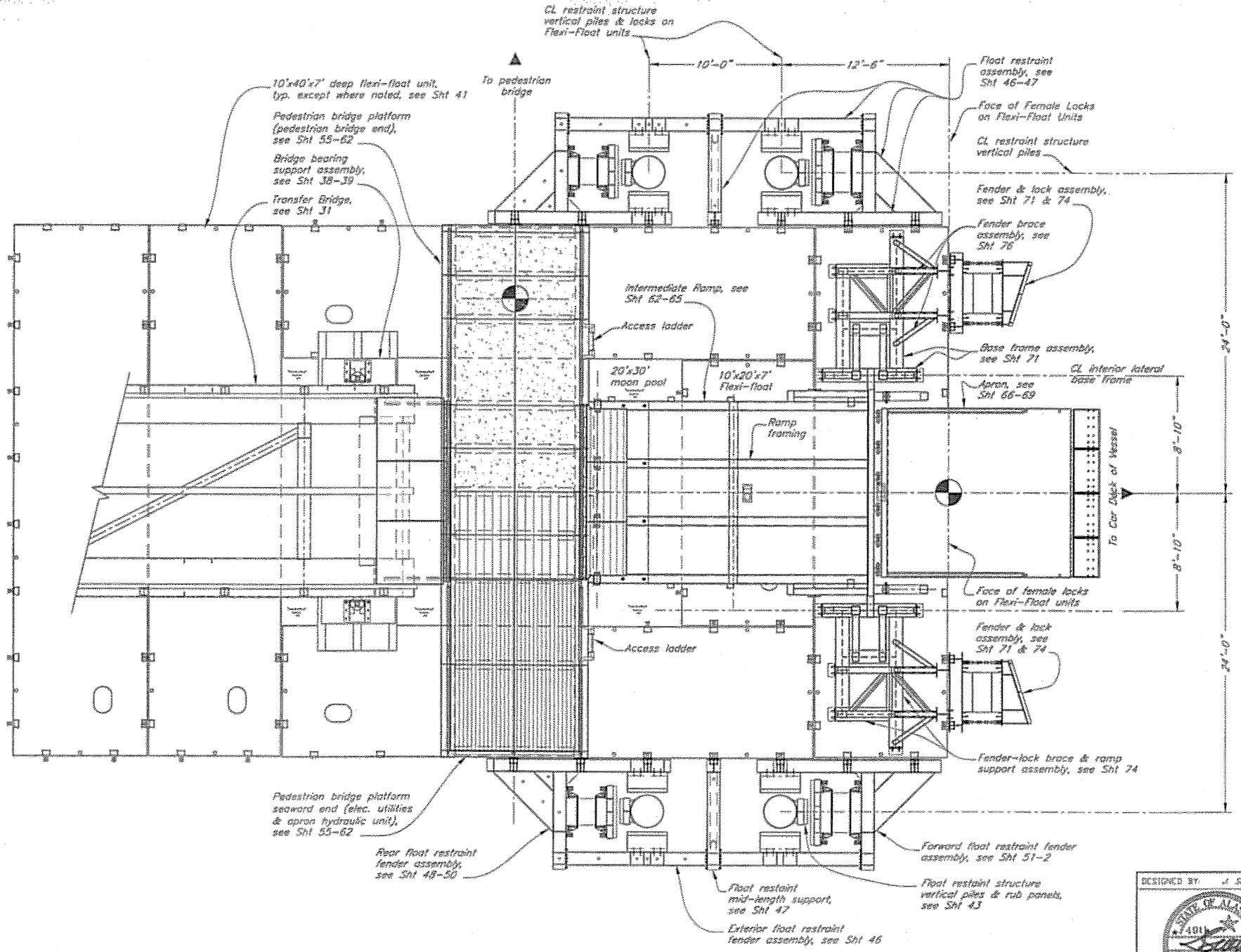
CHECKED BY: Staff
DRAWN BY: B. Nelson, E. Mores
PATH: G:\Pw\67844\dft\Planset\39 Bridge Bearing Support Details.dwg
PLOT: PSPACE 1=1
Wed, 16/Feb/05 01:21 PM

REVISIONS NO.	DATE	DESCRIPTION

PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
67844	2005	39	99

370-05

2/07



Float Plan

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DESIGNED BY: J. Scott

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
& PUBLIC FACILITIES
S.E. REGION DESIGN & ENGINEERING SERVICES DIVISION

STATE OF ALASKA 491 John Scott CE-4755 REGISTERED ENGINEER

3-10-05

CHECKED BY: Staff

DRAWN BY: J. Scott, T. Manes

PATH: G:\Proj\67844\Dgn\Planset\03 Support Plt Float & Platform Layout.dwg

PLOT: PSPACE 1=1

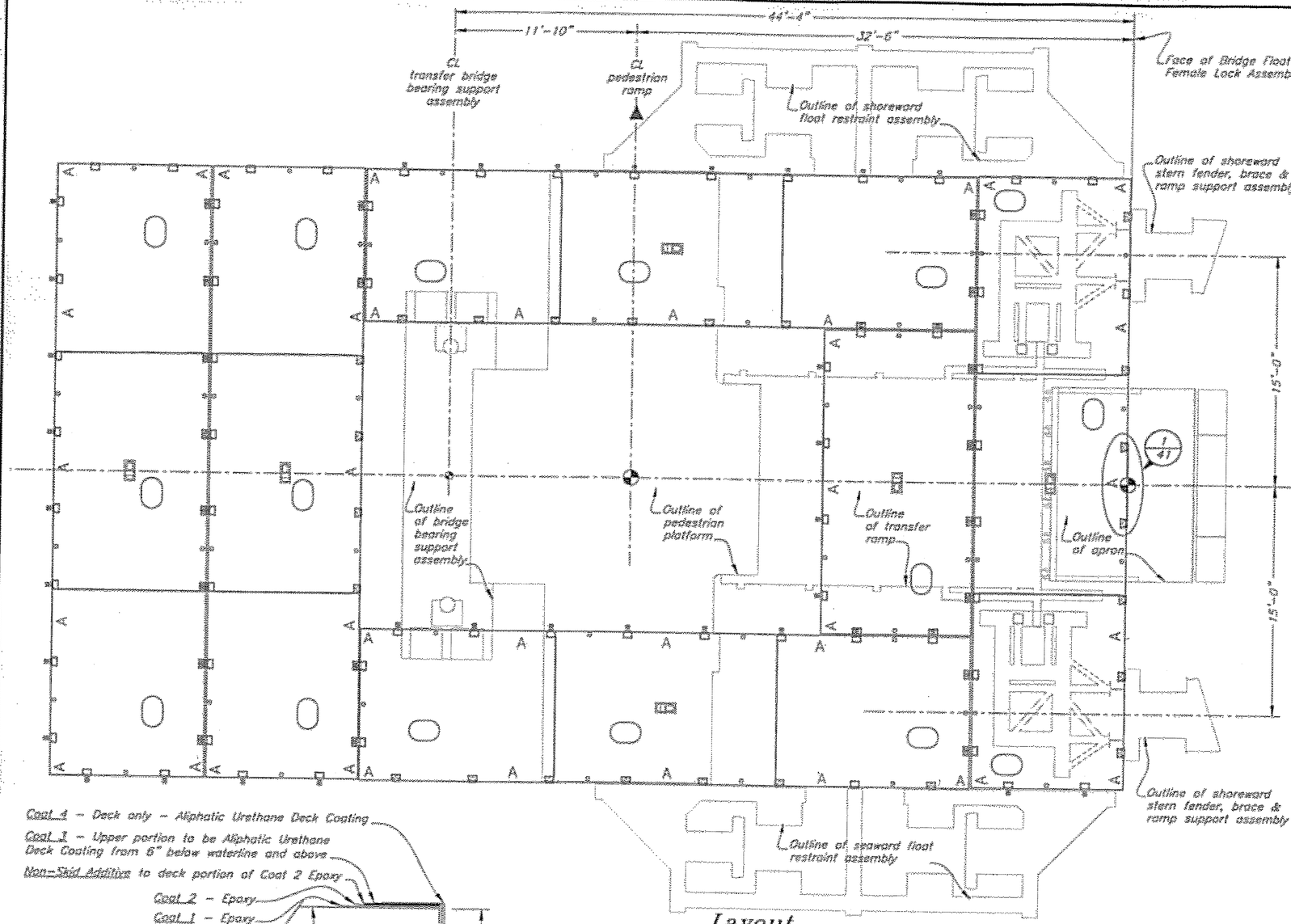
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Coffman Cove Ferry Terminal
Project 67844

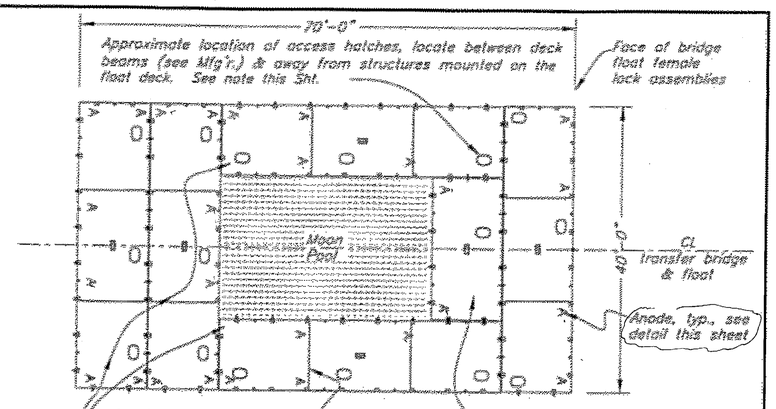
Bridge Support Float & Platform Layout

NO	DATE	REVISIONS DESCRIPTION	PROJECT DESIGNATION	YEAR	SHEET NO	TOTAL SHEETS
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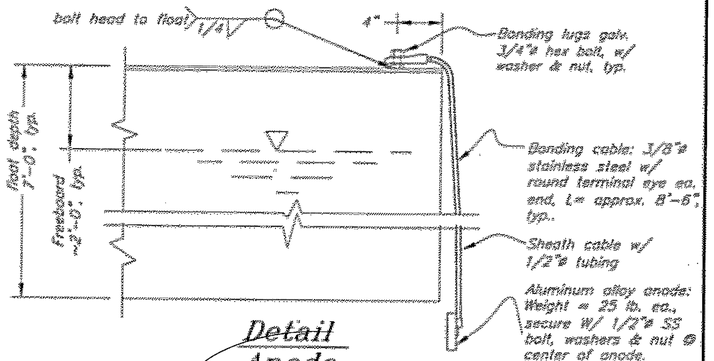
✓ JMB 2/07



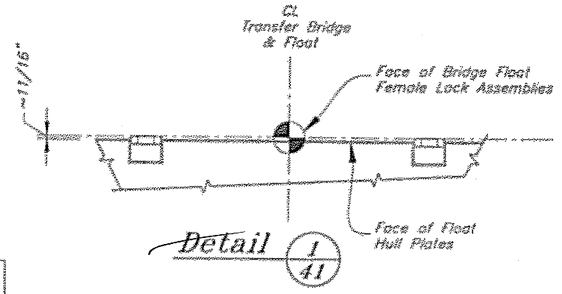
Layout
Bridge Support Float



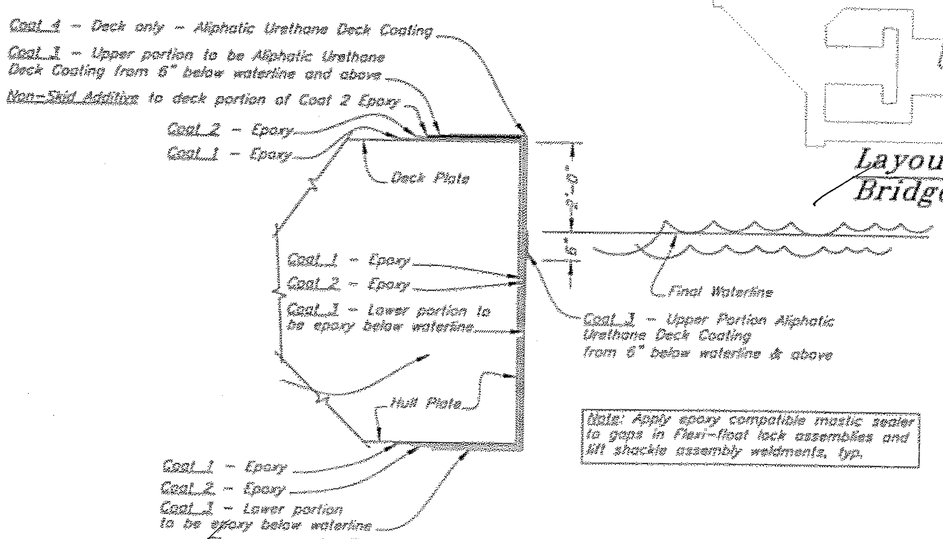
Bridge Support Float



Detail
Anode



Detail 1/41



Note: Apply epoxy compatible mastic sealer to gaps in Flexi-float lock assemblies and lift shackle assembly weldments, typ.

Support Float – Coating Schematic
S70 Series Flexi-float units

NOTES:

ACCESS HATCHES: New Access Hatches shall be Baier oval, flush, plain, type"C" commercial, aluminum w/ galv. steel rim or equal and installed per manufacturer's recommendations.

BALLAST: Float System shall be ballasted with potable water to ~2'-0" freeboard all around with all structures installed. Note that ballast maybe required during erection/installation of components on the float system.

COATING SYSTEM: Coating system for exterior of float units shall be System 1 per Technical Specifications. First two coats shall be epoxy. Second coat shall have non-skid additive on the deck surface. Third coat shall be epoxy from waterline and below and an aliphatic polyurethane deck coating from 6 inches below waterline and above. Final fourth coat shall be an aliphatic polyurethane deck coating and shall be applied to the deck surfaces only. Float attachments and assemblies shall be galvanized after fabrication. Interior of floats shall be uncoated.

FLOAT UNITS: Float Units are Flexifloat S-70 Series from:
Robishaw Engineering, Inc.
P.O.Box 19246
Houston, TX 77224
Ph: (713) 468-1706

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

DESIGNED BY: J. Scott
CHECKED BY: K. Miller
DRAWN BY: C. Furman, T. Mores
PATH: G:\Pwe\67844\all\Planset\41 Float Layout.dwg
PLOT: PSPACE 1=1
Thu, 24/Feb/05 10:44AM

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
S.E. REGION DESIGN & ENGINEERING SERVICES DIVISION

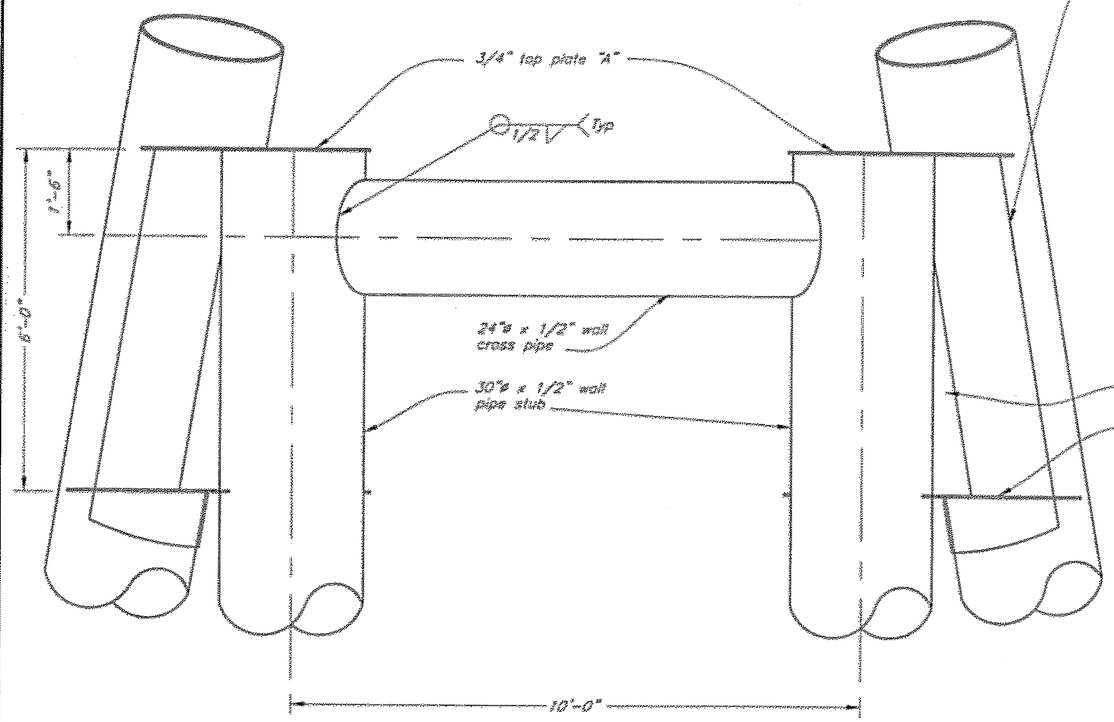
Coffman Cove Ferry Terminal
Project 67844

Bridge Support Float Layout

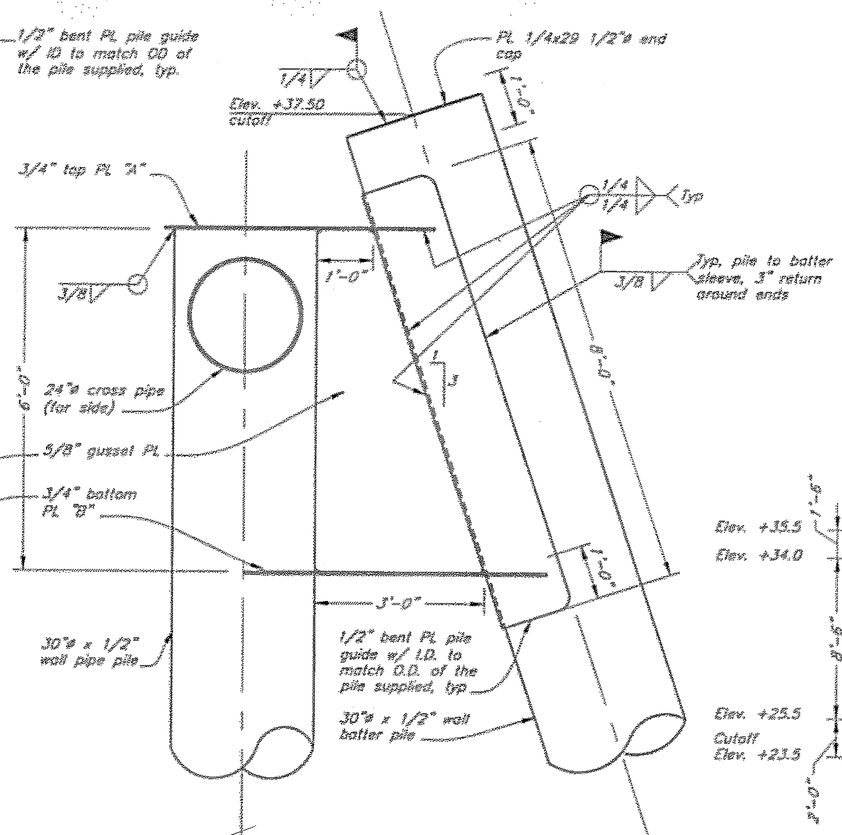
3-10-05

REVISIONS NO.	DATE	DESCRIPTION	PROJECT DESIGNATION	YEAR	SHEET NO	TOTAL SHEETS
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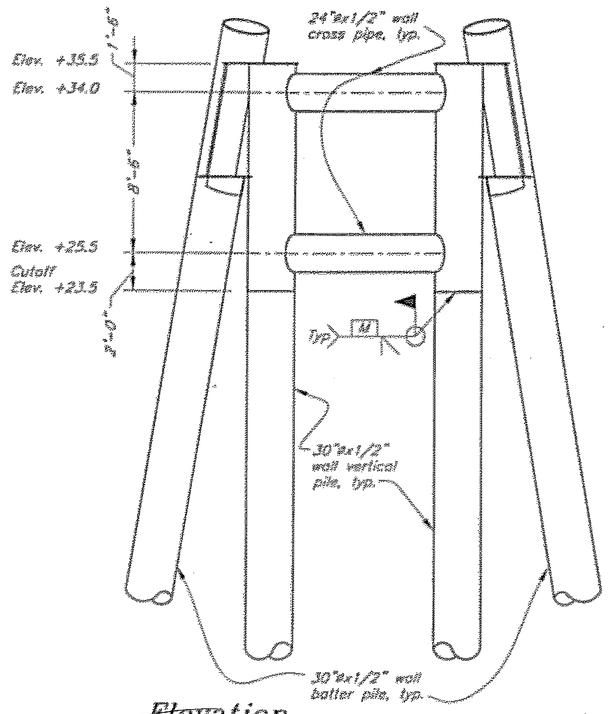
V JMS 2/07



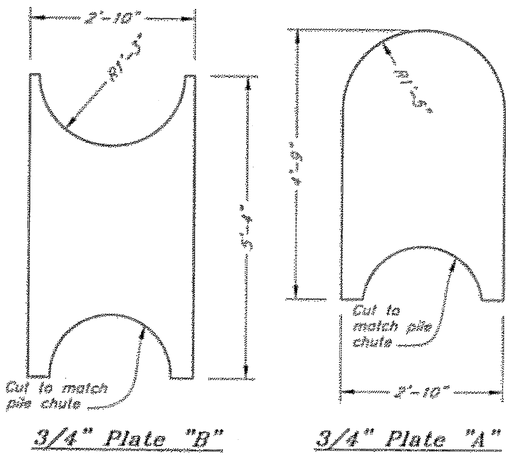
Elevation
Restraint Pile Cap



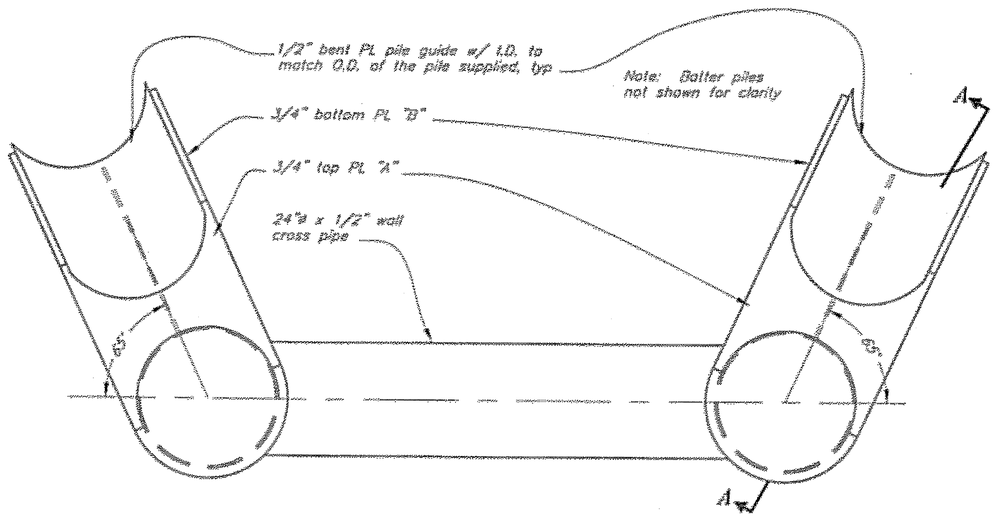
Section A-A
Restraint Pile Cap



Elevation
Restraint Pile Structure



Restraint Pile Cap Plates



Plan
Restraint Pile Cap
ER shown, WR mirror image

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

DESIGNED BY: J. Scott
DRAWN BY: Staff
CHECKED BY: B. Jenkins

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
S.E. REGION DESIGN & ENGINEERING SERVICES DIVISION

Coffman Cove Ferry Terminal
Project 67844

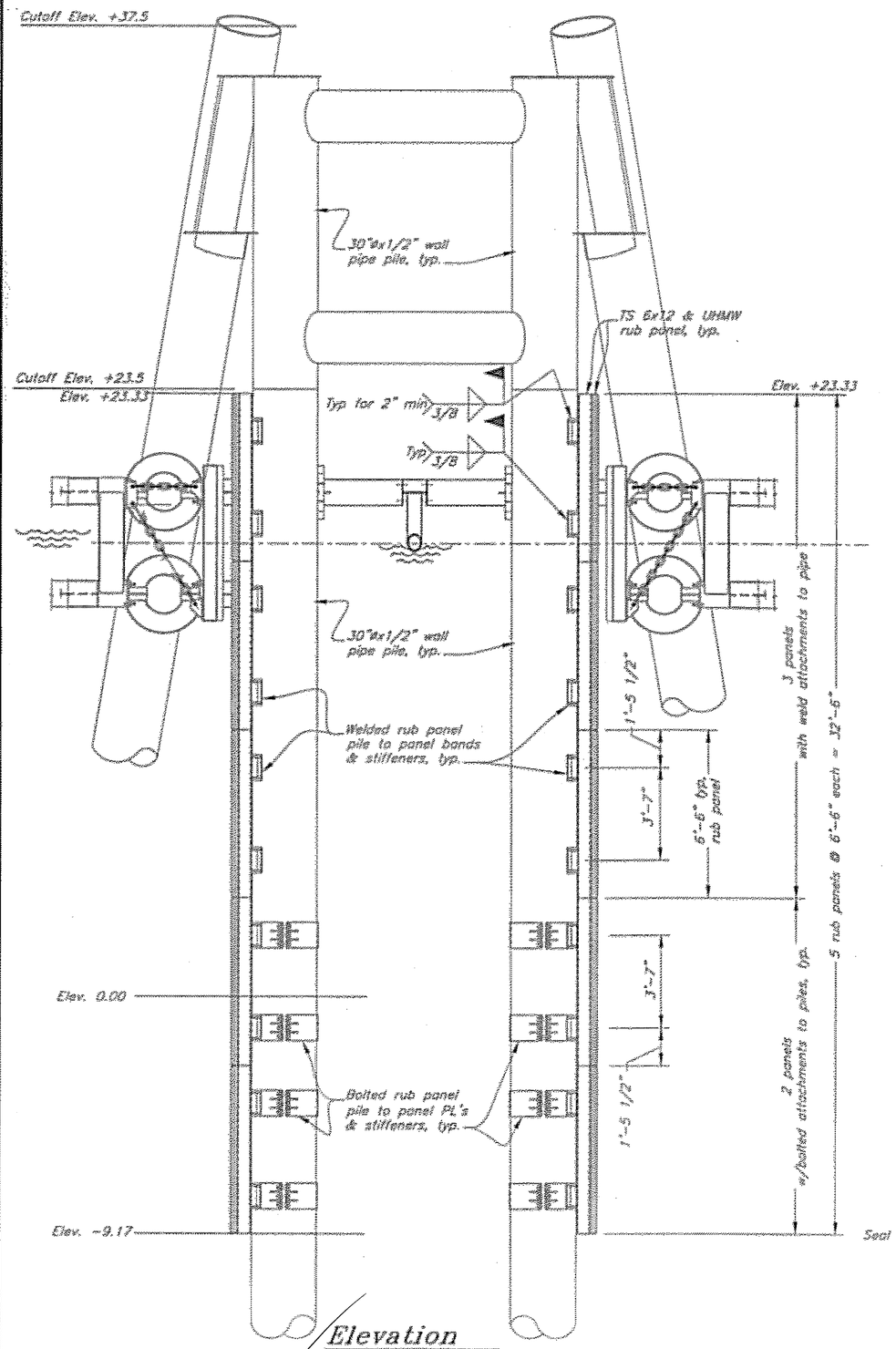
Support Float Restraint Dolphins ER & WR

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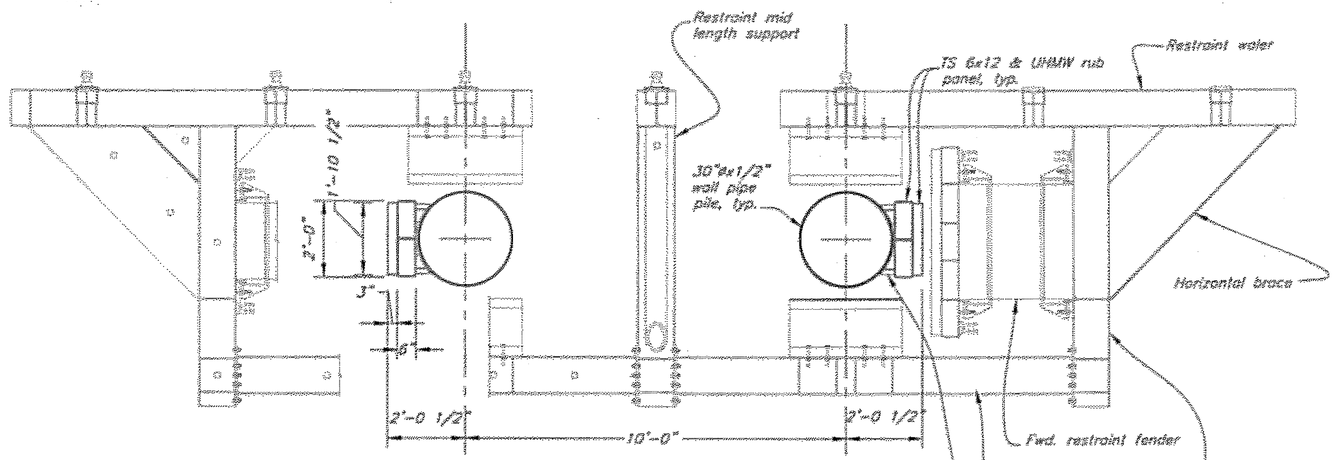
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3-10-05

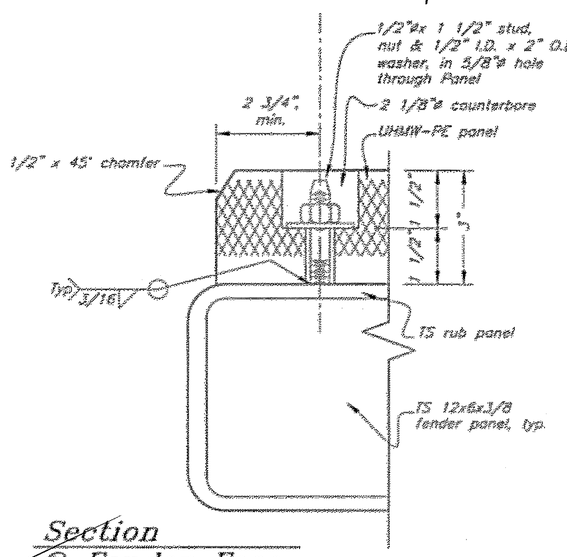
VJ 2/07



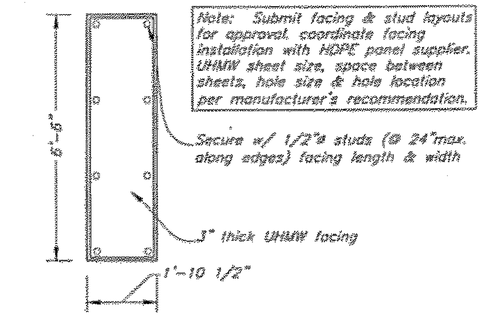
Elevation
Rub Panels



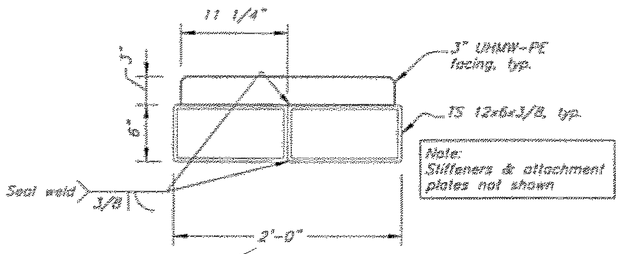
Plan
Rub Panels



Section
@ Fender Face



Front Elevation
Rub Panel



Section
Rub Panel

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DESIGNED BY: J. Scott
DRAWN BY: J. Scott, T. Mores
CHECKED BY: J. Brodie

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
S.E. REGION DESIGN & ENGINEERING SERVICES DIVISION

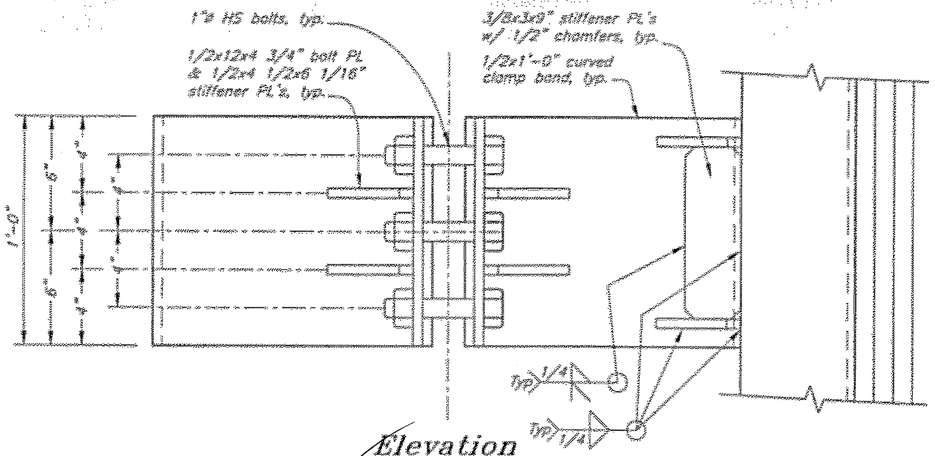
Coffman Cove Ferry Terminal
Project 67844

Float Restraint Rub Panels

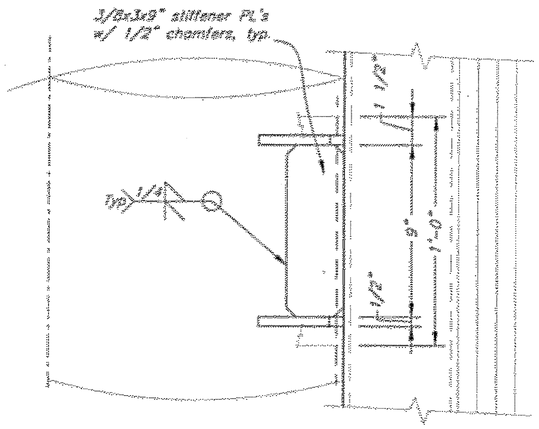
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REVISIONS NO	DATE	DESCRIPTION	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
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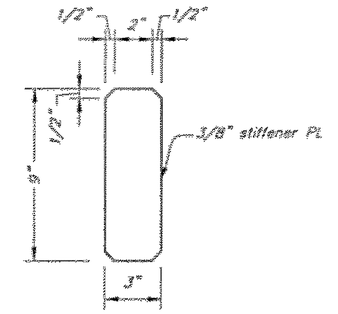
2/07



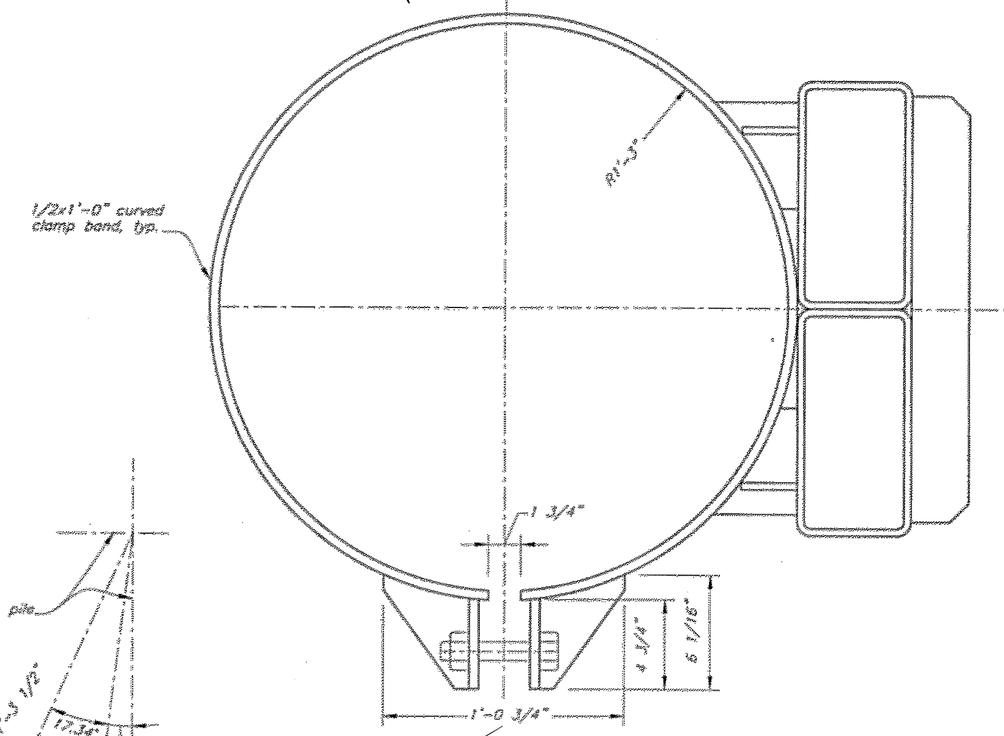
Elevation



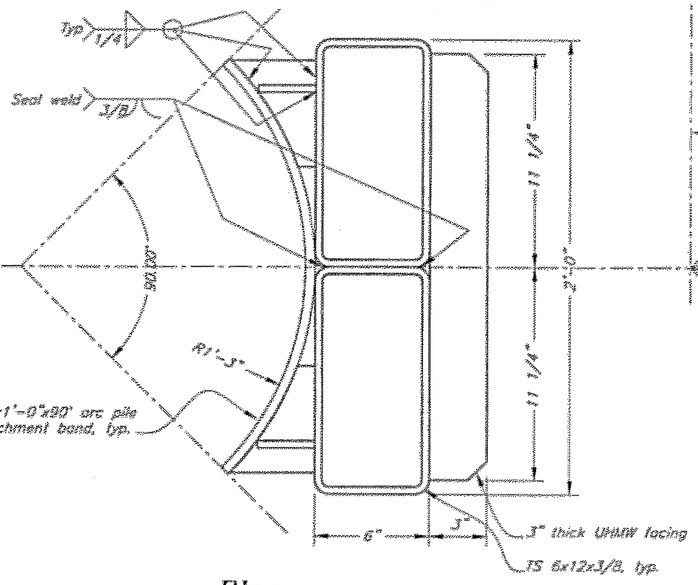
Elevation



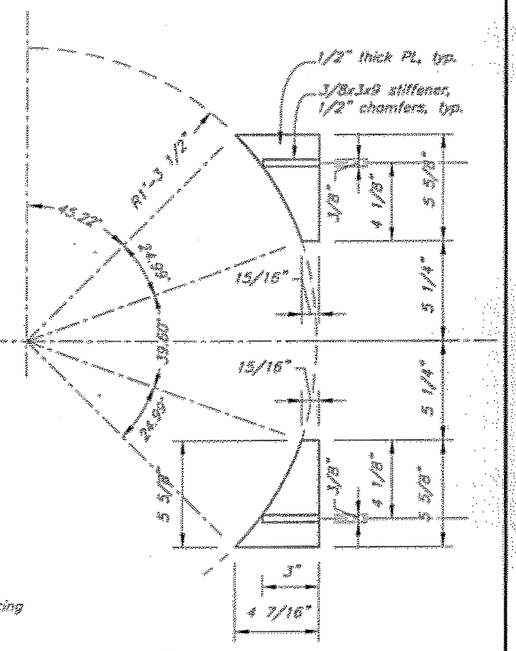
Stiffener Plate



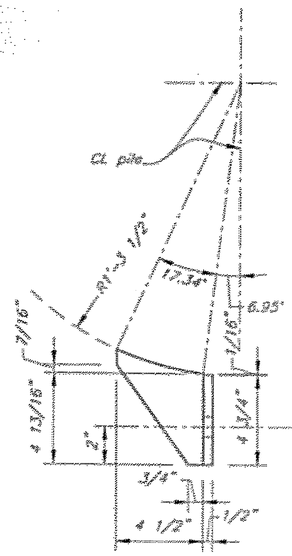
Plan



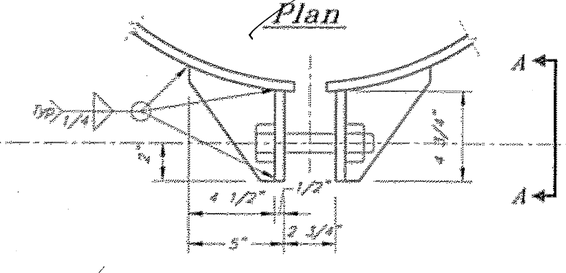
Plan
Weld Attached Rub Panel



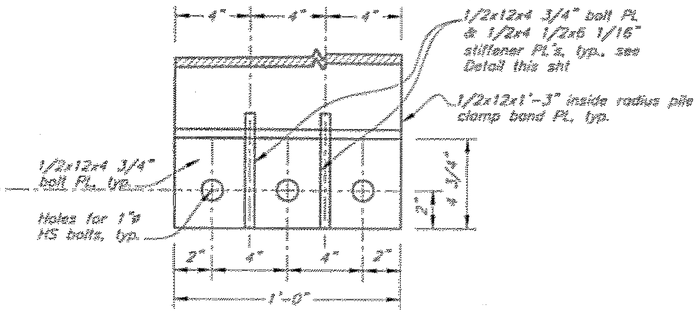
Fender Panel
Stiffeners



Detail
Bolt Stiffener PL's



Plan & Elevation
Rub Panel Clamp Band & Stiffener



Section A-A

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

DESIGNED BY: J. Scott

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
& PUBLIC FACILITIES
S.E. REGION DESIGN & ENGINEERING SERVICES DIVISION

CHECKED BY: J. Brodie

DRAWN BY: J. Scott, T. Mann

3-10-05

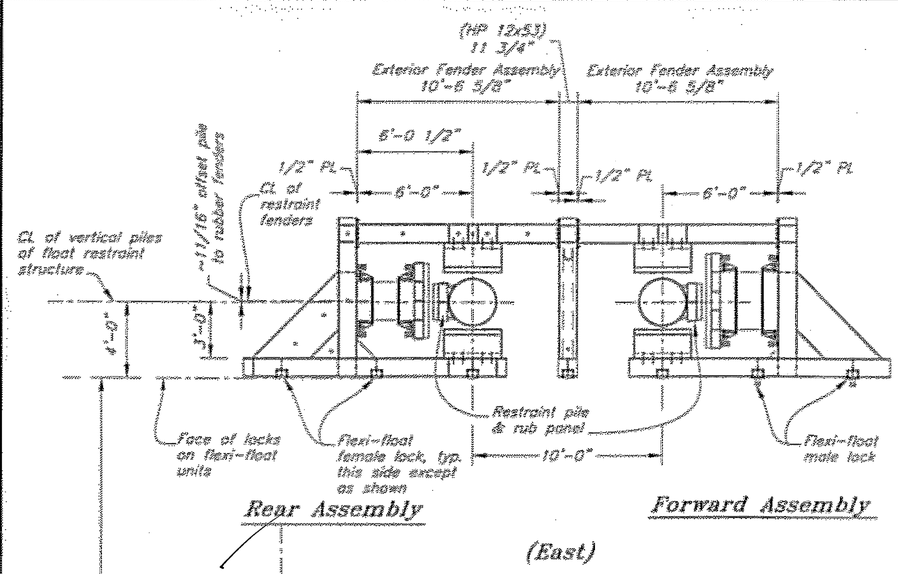
Coffman Cove Ferry Terminal
Project 67844

Float Restraint Rub Panels Details

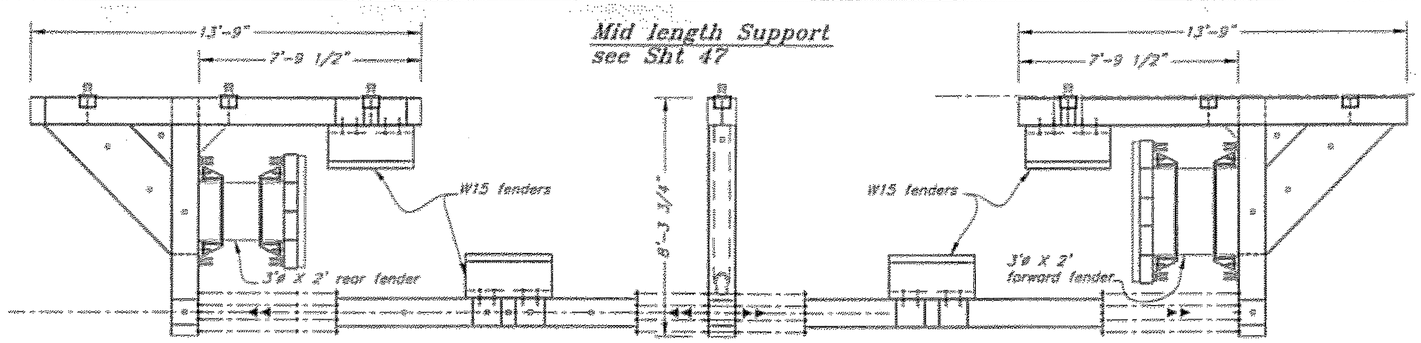
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PLOT: PSPACE 1=1 Wed, 16/Feb/05 01:57PM

REVISIONS NO.	DATE	DESCRIPTION	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			67844	2005	44	99

✓ MB 2/07



Plan – Layout
Float Restraint



Mid length Support
see Sht 47

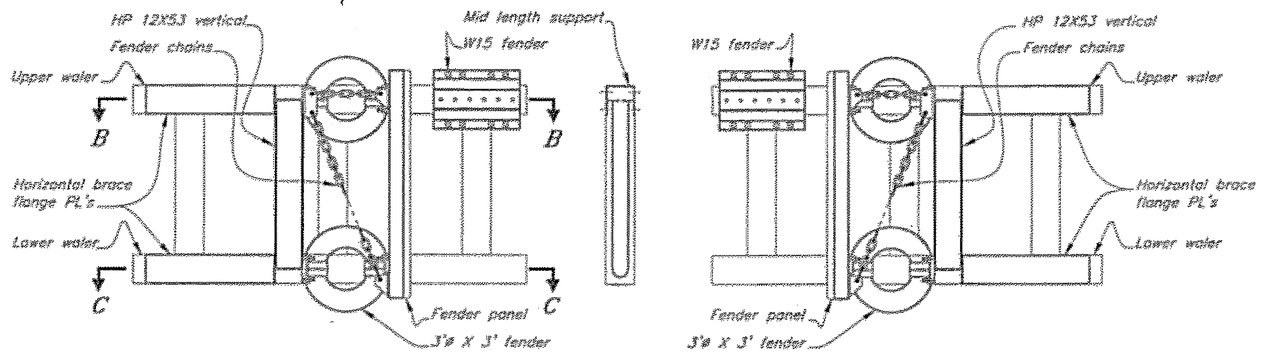
Rear Fender
see Sht 48-50

Exterior Fender
see Sht 46

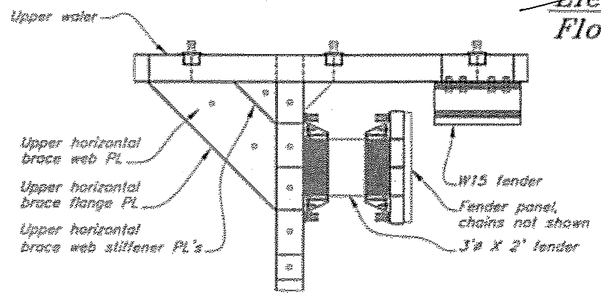
Exterior Fender
see Sht 46

Forward Fender
see Sht 51 & 52

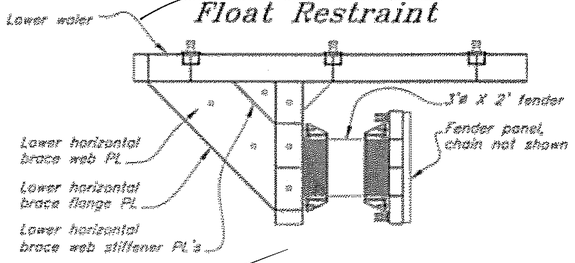
Assemblies (Exploded Plan Views)
Float Restraint WR



Elevation Section A-A
Float Restraint



Section B-B
Float Restraint



Section C-C
Float Restraint

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

DESIGNED BY: J. Scott
DRAWN BY: J. Scott, T. Morse
CHECKED BY: K. Miller
PATH: o:\Proj\67844\all\Plansel\45 Float Restraint Layout.dwg
PLOT: PSPACE 1=1

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
& PUBLIC FACILITIES
S.E. REGION DESIGN & ENGINEERING SERVICES DIVISION

STATE OF ALASKA — JOHN I. SCOTT — CE-4755 — REGISTERED PROFESSIONAL ENGINEER — 3-10-05

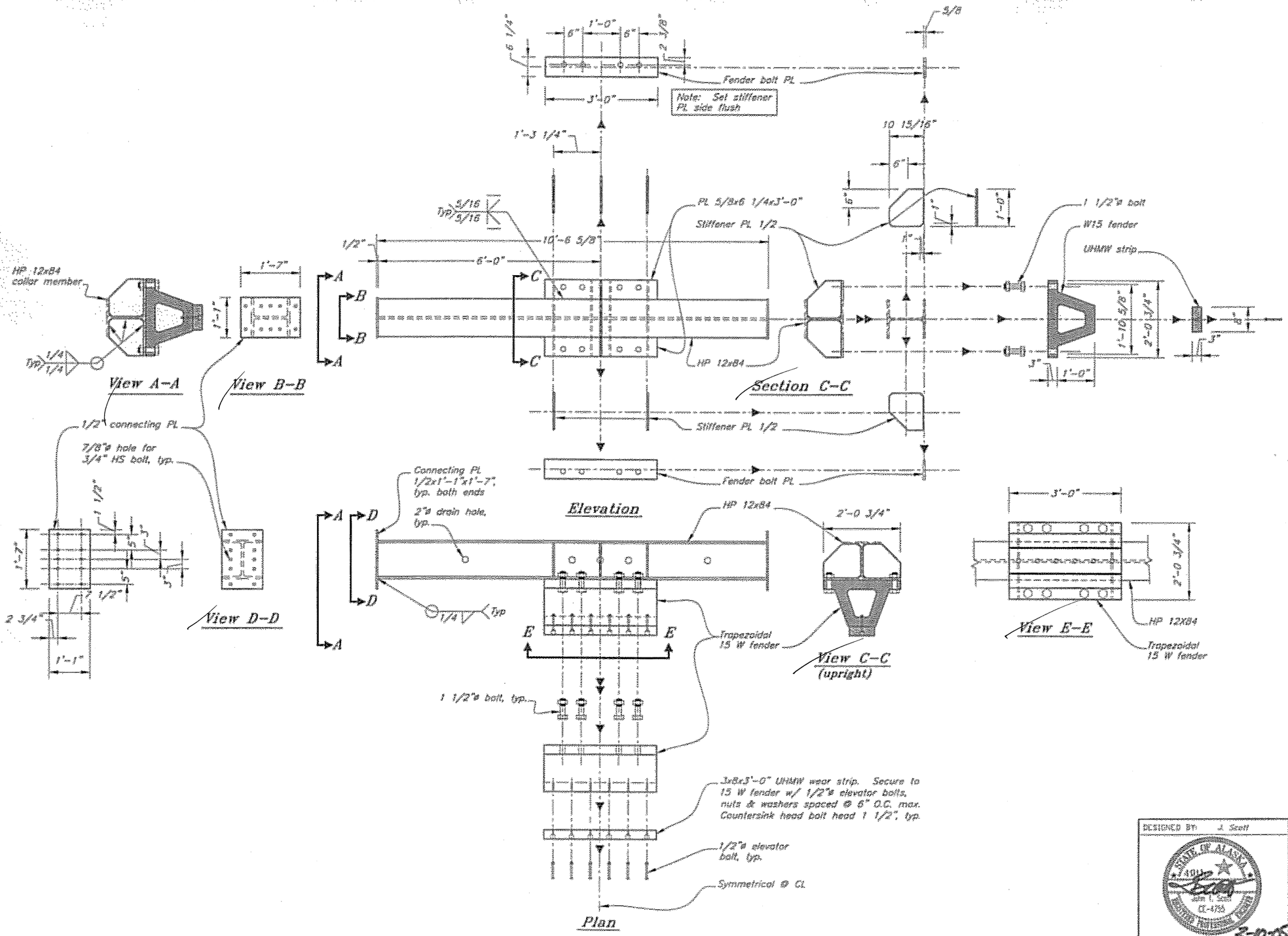
Coffman Cove Ferry Terminal
Project 67844

Float Restraint Layout

NO	DATE	REVISIONS DESCRIPTION

PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
67844	2005	45	99

✓ 2/07



Float Restraint Exterior Fender Assembly

(Rear Assembly shown, Forward opposite hand)

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

DESIGNED BY: J. Scott

DRAWN BY: J. Scott, T. Mores

CHECKED BY: K. Miller

PATH: G:\Pw\E&PM\MP\Planset\46 Float Restraint Ext Fender.dwg

PLOT: PSPACE 1=1 Wed, 12/14/05 08:12PM

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
& PUBLIC FACILITIES
S.E. REGION DESIGN & ENGINEERING SERVICES DIVISION

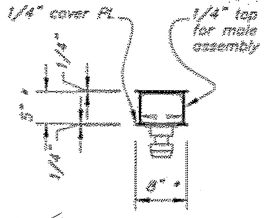
STATE OF ALASKA — John T. Scott CE-4785 — REGISTERED ENGINEER — 12-9-05

Coffman Cove Ferry Terminal
Project 67844

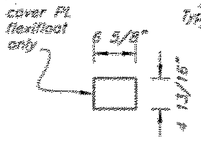
Float Restraint Exterior Fender Assembly

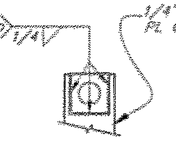
REVISIONS NO	DATE	DESCRIPTION	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			67844	2005	46	99

V JMS 2/07

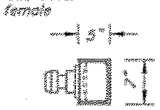


Top View
Cover Plate





Elevation
Female



Elevation
Male *



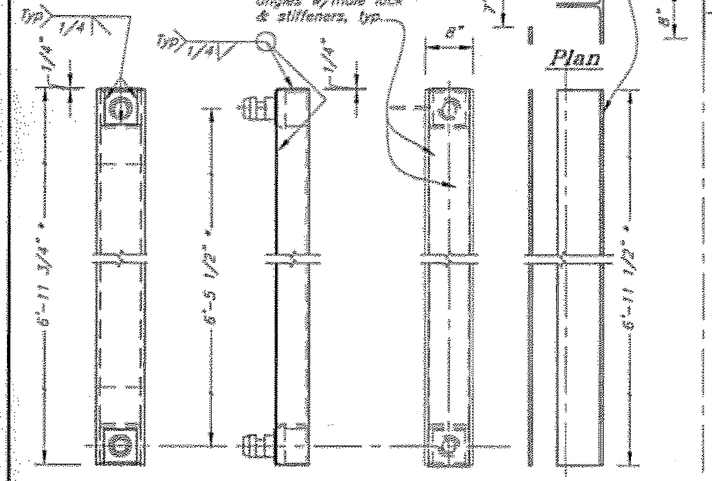
Elevation
Female *

Note:
Male flexifloat assembly- w/ double 5x3 1/2 x 6'-11 1/2" angles, male lock & stiffeners, typ. from Robishaw Engineering Co. *

Female flexifloat assembly- w/ double 5 x 3 1/2 x 6'-11 1/2" angles, female lock & stiffeners, typ. from Robishaw Engineering Co. * - NO cover plates required, top must be open to allow female lock apparatus to operate.

*Confirm this information w/ Robishaw & adjust as required.

Detail
Male Flexifloat Lock Assembly



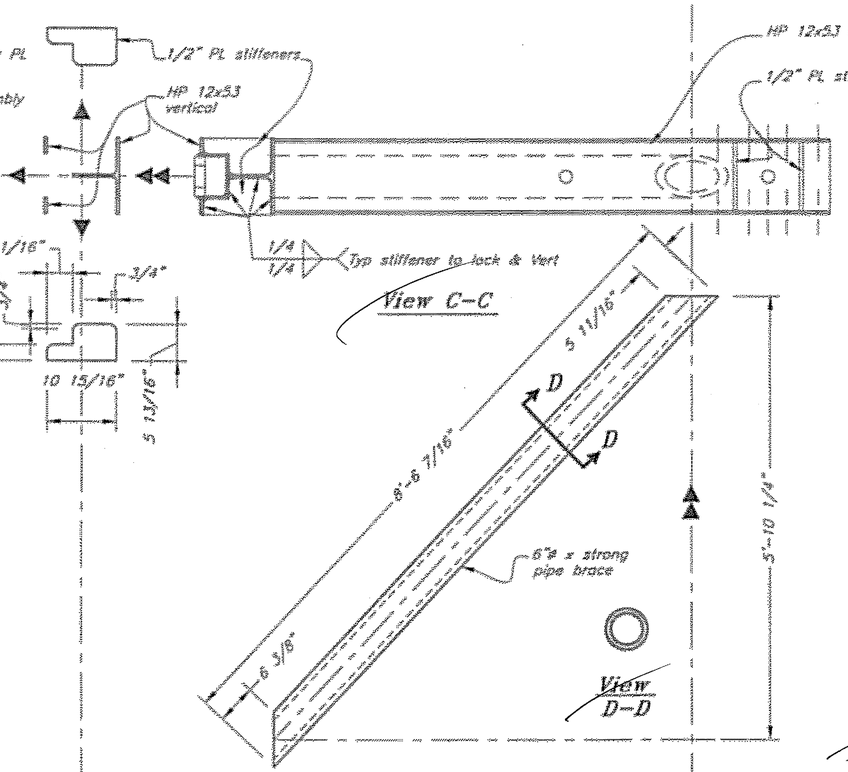
Elevation
Front

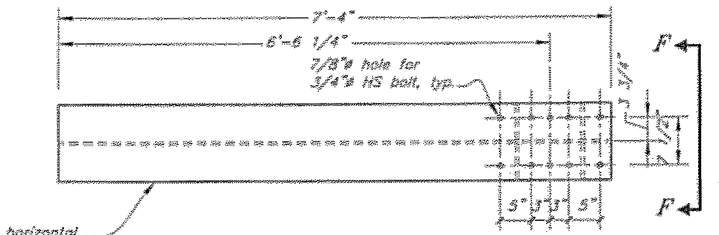
Elevation
Side

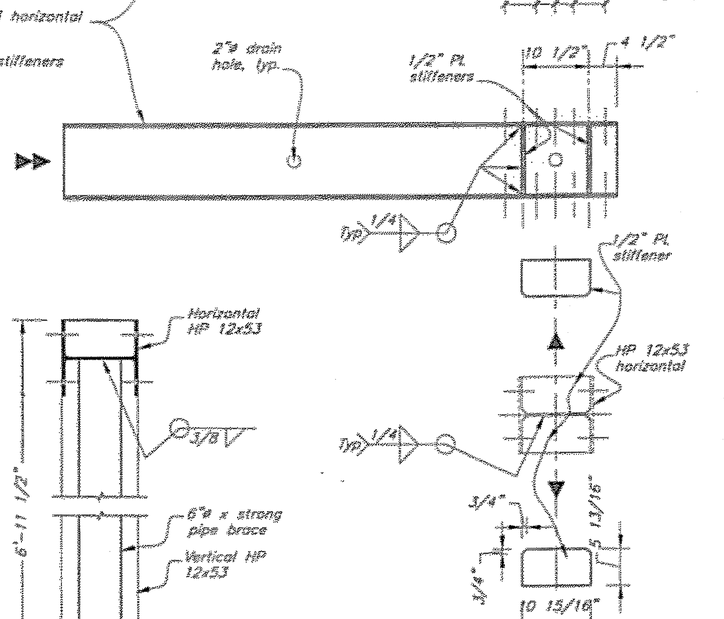
Elevation
Rear

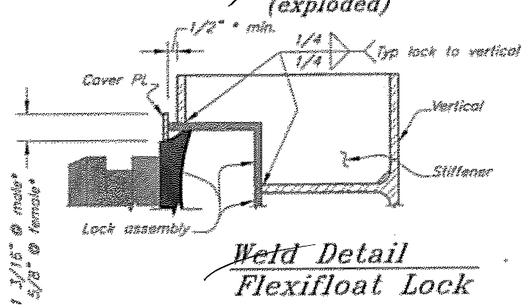
Side Elevation
Lock Vertical

Male Flexifloat Lock Assembly & Cover Plates

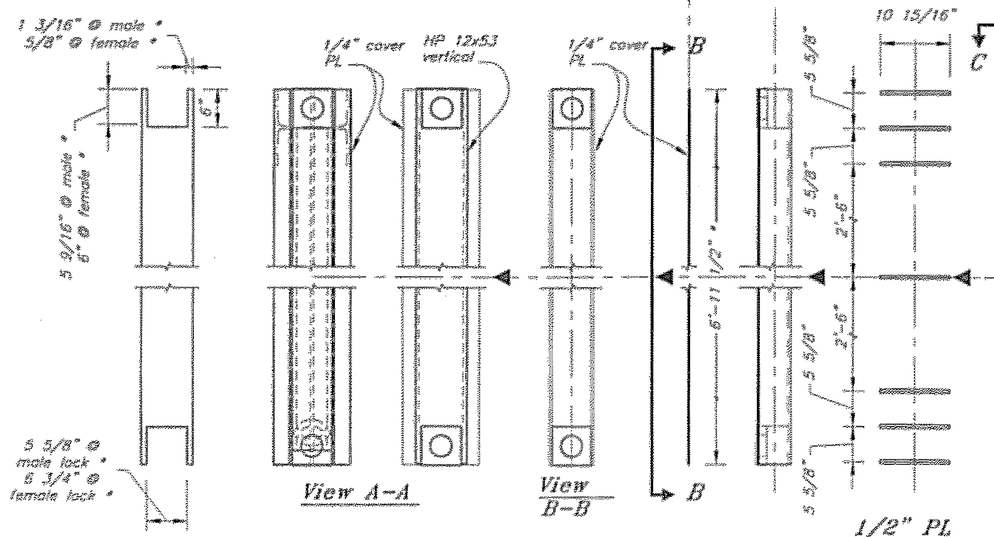




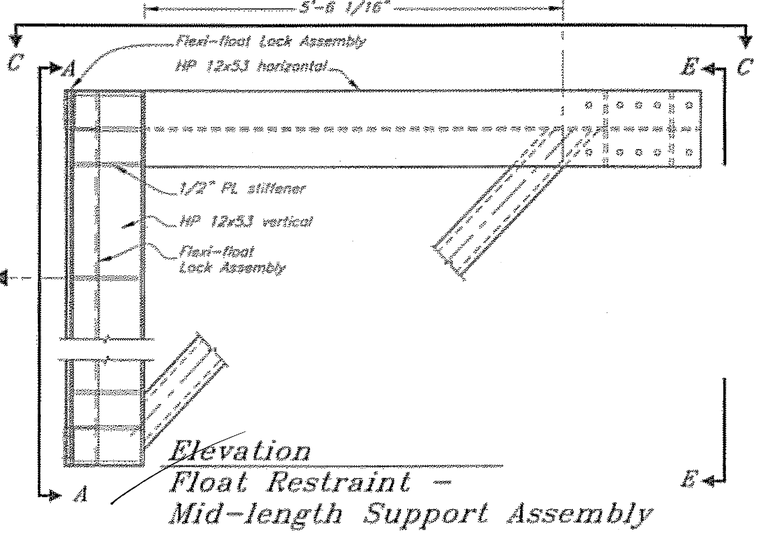




Weld Detail
Flexifloat Lock



Female Flexifloat Lock Assembly & Cover Plates



Elevation
Float Restraint -
Mid-length Support Assembly

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

DESIGNED BY: J. Scott
DRAWN BY: J. Scott, T. Mores
CHECKED BY: K. Miller
PATH: G:\Proj\67844\all\Forrest\47 Float Restraint Mid-Length.dwg
PLOT: 1SPACE 1=1
Thu, 12/Feb/05 10:53AM

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
S.E. REGION DESIGN & ENGINEERING SERVICES DIVISION

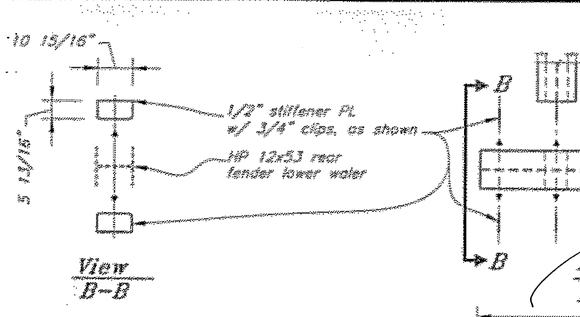
STATE OF ALASKA · 7401 · John L. Scott · CE-4755 · REGISTERED PROFESSIONAL ENGINEER

Coffman Cove Ferry Terminal
Project 67844
Float Restraint Mid-Length Support Assembly

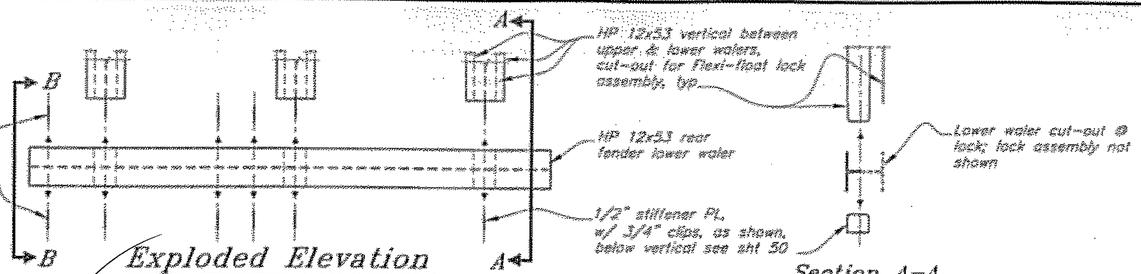
3-10-05

REVISIONS NO.	DATE	DESCRIPTION	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			67844	2005	47	99

✓ JM 2/07



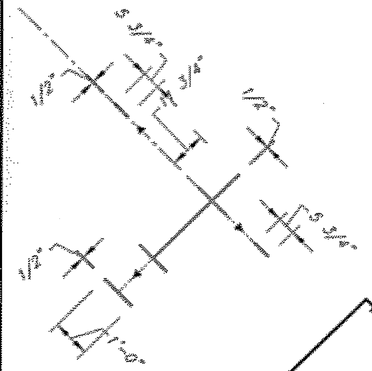
View B-B



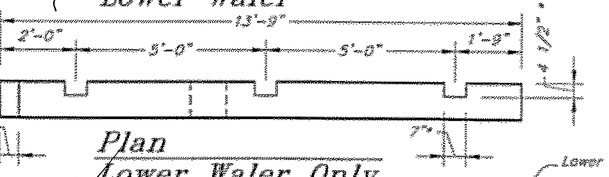
Exploded Elevation
Lower Waler

Section A-A

Lock assembly not shown

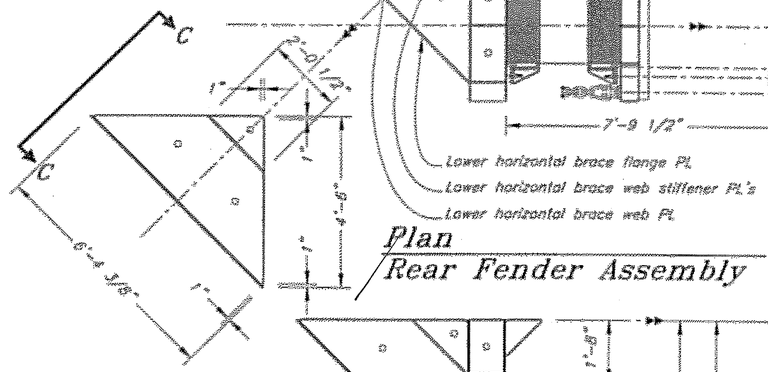


View C-C

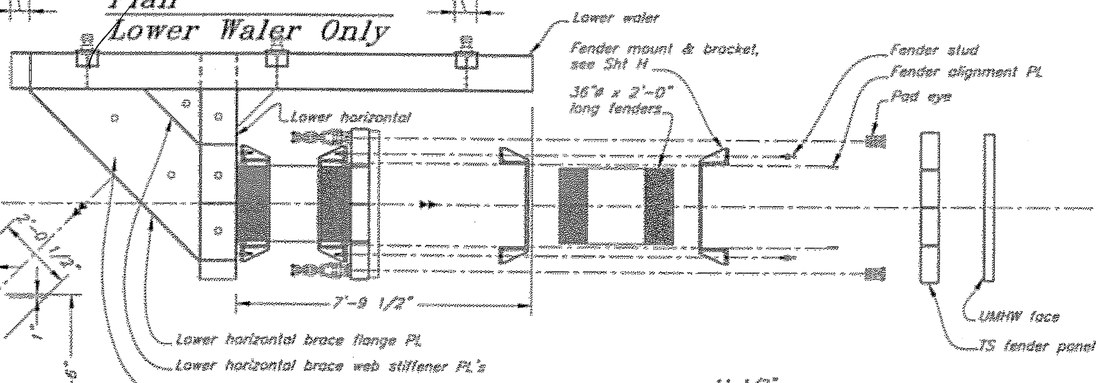


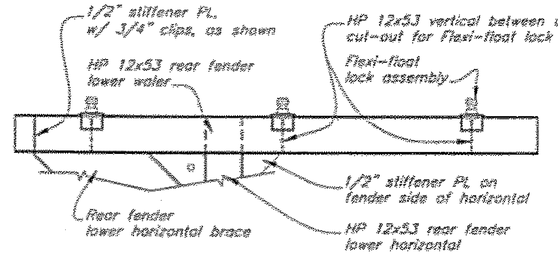
Plan
Lower Waler Only

"Confirm w/ Robishaw and adjust as req'd

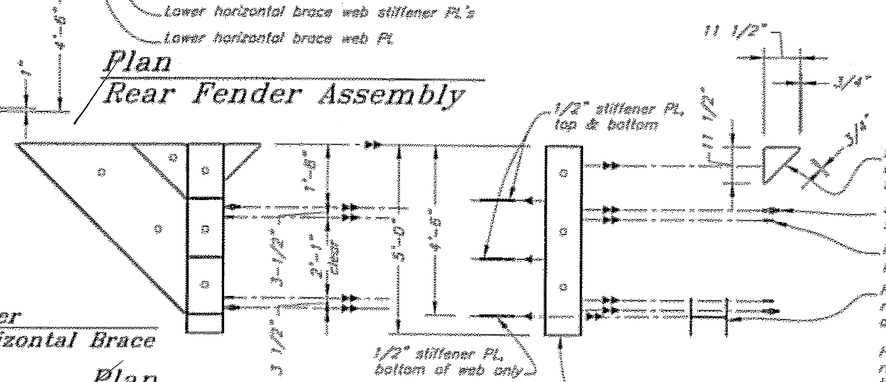


Plan
Rear Fender Assembly



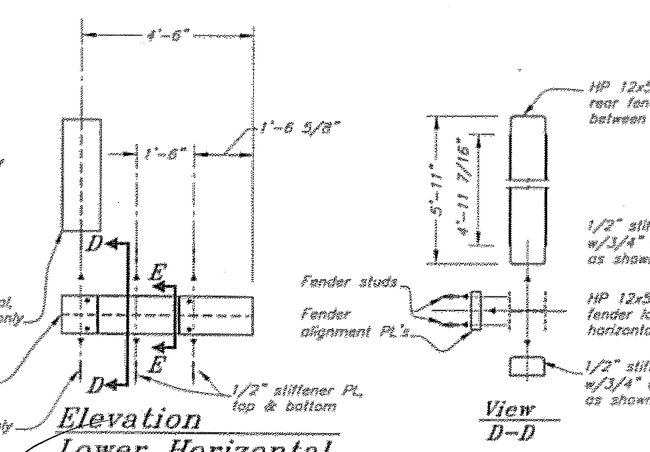


Plan
Lower Waler -
Rear Fender Assembly

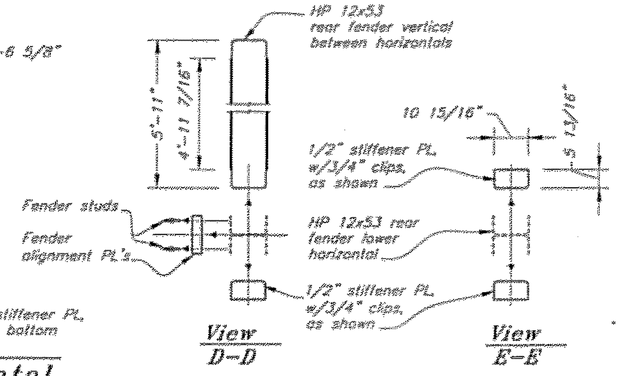


Rear Fender
Lower Horizontal Brace

Plan
Lower Horizontal

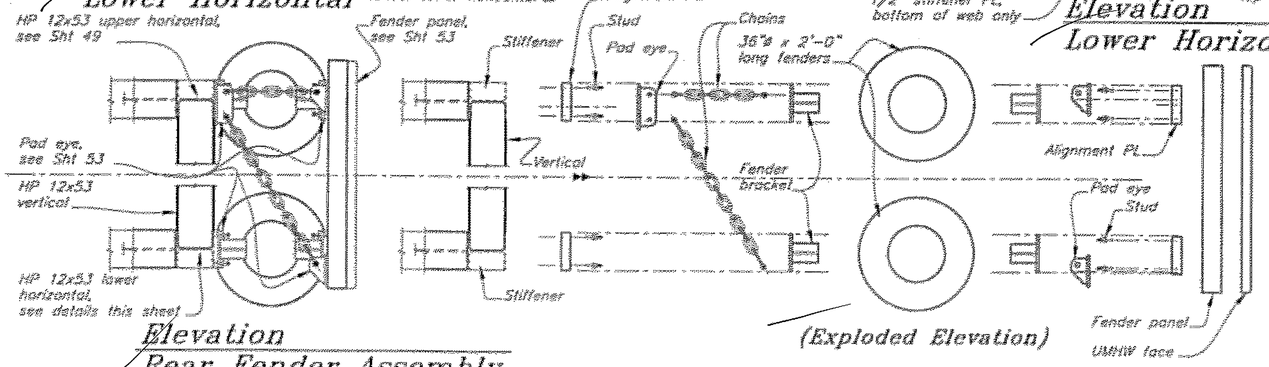


Elevation
Lower Horizontal



View D-D

View E-E



Elevation
Rear Fender Assembly

(Exploded Elevation)

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

DESIGNED BY: J. Scott

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
S.C. REGION DESIGN & ENGINEERING SERVICES DIVISION

STATE OF ALASKA
JOHN T. SCOTT
12-4715
REGISTERED ENGINEER
3-10-05

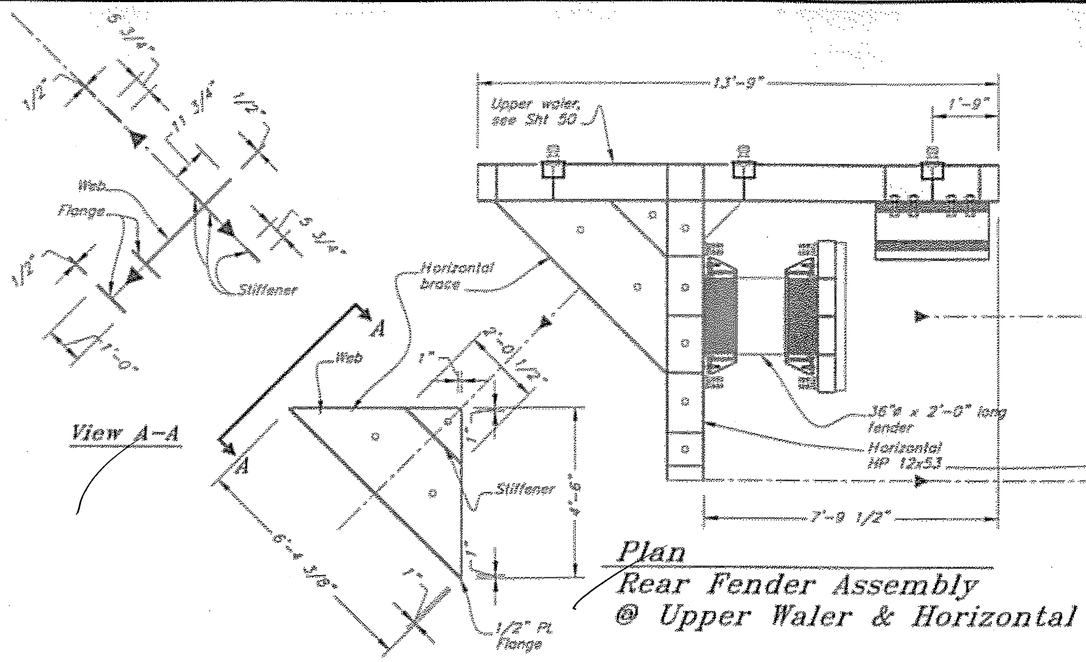
Coffman Cove Ferry Terminal
Project 67844

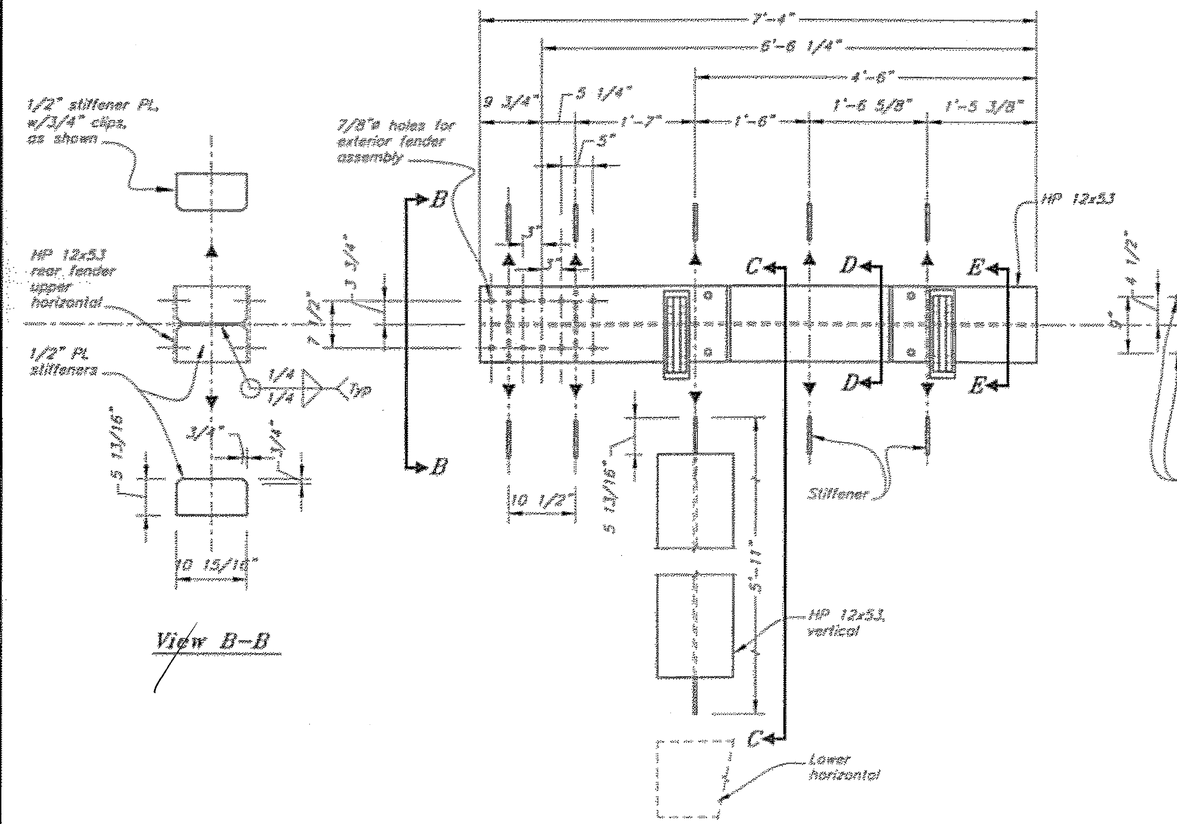
Rear Fender Assembly Lower Waler & Horizontal

CHECKED BY: K. Miller
DRAWN BY: J. Scott, T. Mores
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Thu, 16-Feb-05 10:33:49
Tab: Layout1 [4]

REVISIONS NO.	DATE	DESCRIPTION	PROJECT DESIGNATION	YEAR	SHEET NO	TOTAL SHEETS
			67844	2005	48	99

✓ JMO 2/07





DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

DESIGNED BY: J. Scott

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
& PUBLIC FACILITIES
S.E. REGION DESIGN & ENGINEERING SERVICES DIVISION

CHECKED BY: J. Scott

DRAWN BY: J. Scott, T. Mores

3-10-05

Coffman Cove Ferry Terminal
Project 67844

Rear Fender Assembly Upper Horizontal

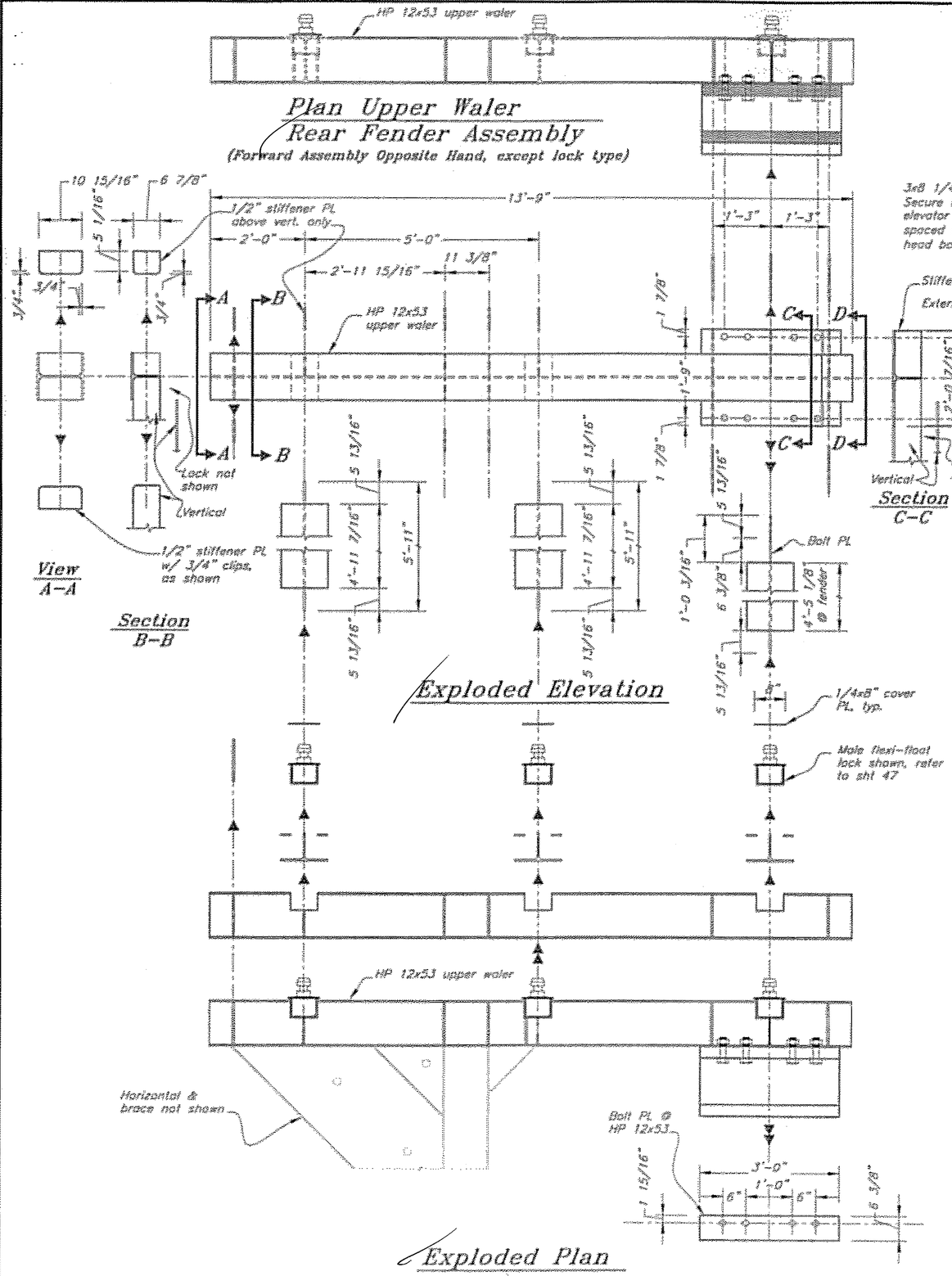
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PLOT: PSPACE 1=1

Thu, 10/06/05 10:36AM

REVISIONS NO	DATE	DESCRIPTION	PROJECT DESIGNATION	YEAR	SHEET NO	TOTAL SHEETS
			67844	2005	49	99

✓ MM 2/07



DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

DESIGNED BY: J. Scott
DRAWN BY: J. Scott, T. Manes
CHECKED BY: K. Miller
PATH: G:\flex\67844\all\Planset\39 Rear Fendrant Upper Rear.dwg
PLOT: SCALE 1=1
Thu, 12/May/05 11:40AM

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
& PUBLIC FACILITIES
S.E. REGION DESIGN & ENGINEERING SERVICES DIVISION

STATE OF ALASKA 49TH — John T. Scott CE-4755 — REGISTERED ENGINEER — 3-10-05

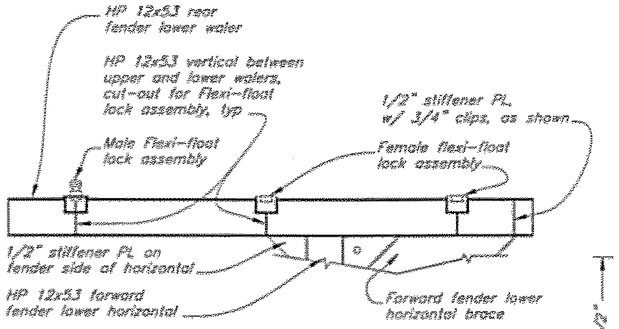
Coffman Cove Ferry Terminal
Project 67844

Rear Fender Assembly Upper Waler

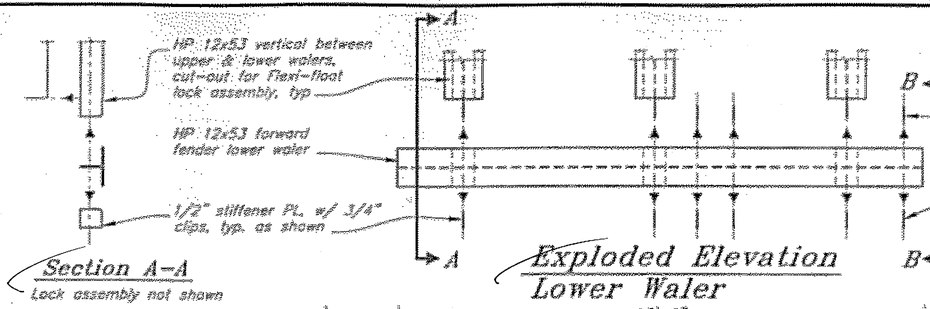
NO	DATE	REVISIONS DESCRIPTION

PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
67844	2005	50	99

✓ GB 2/07



Plan
Lower Waler –
Forward Fender Assembly

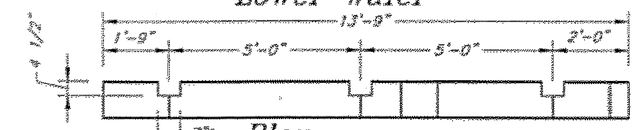


Section A–A
Lock assembly not shown

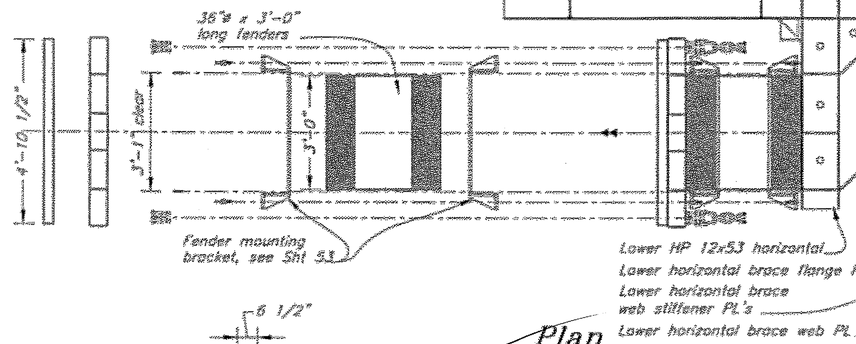
Exploded Elevation
Lower Waler

View
B–B

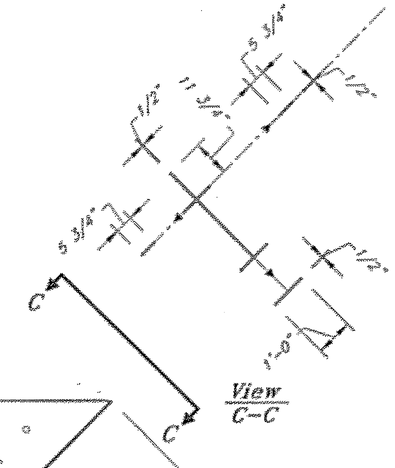
*Confirm w/ Robishaw



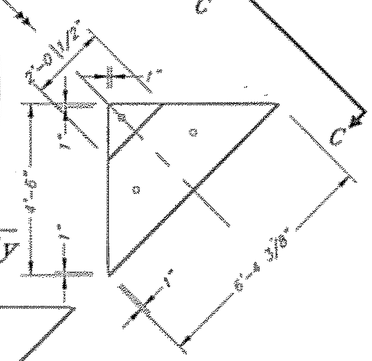
Plan
Lower Waler Only

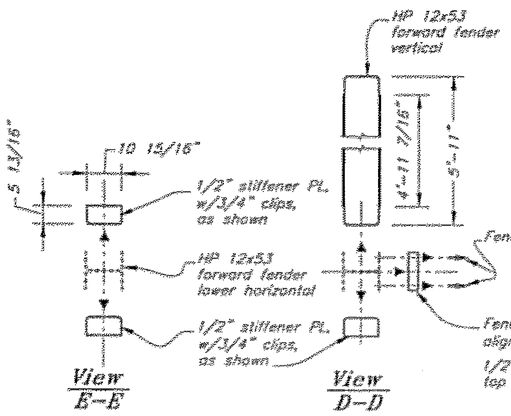


Plan
Forward Fender Assembly



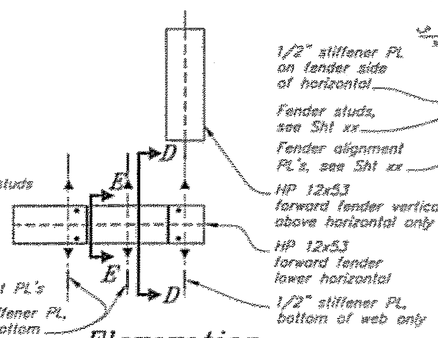
View
C–C



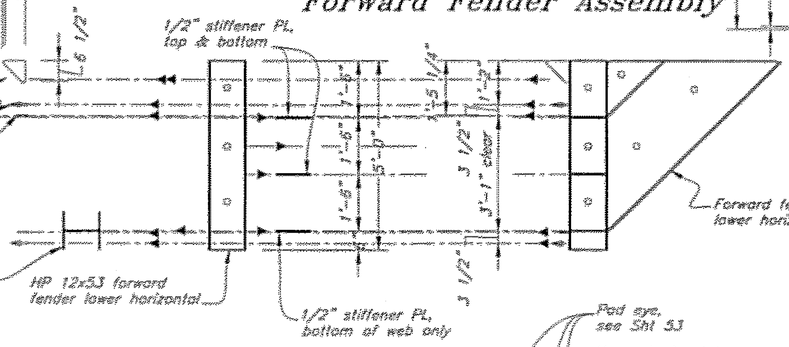


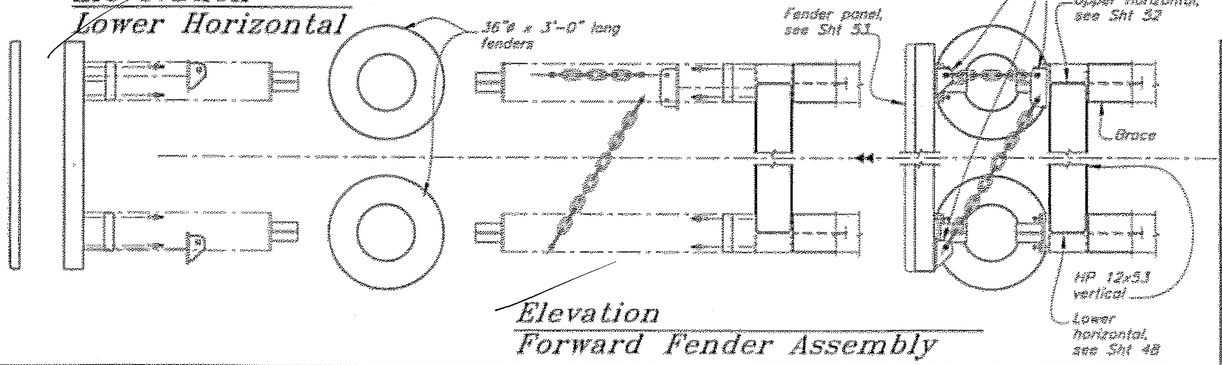
View
E–E

View
D–D



Elevevation
Lower Horizontal





Elevation
Forward Fender Assembly

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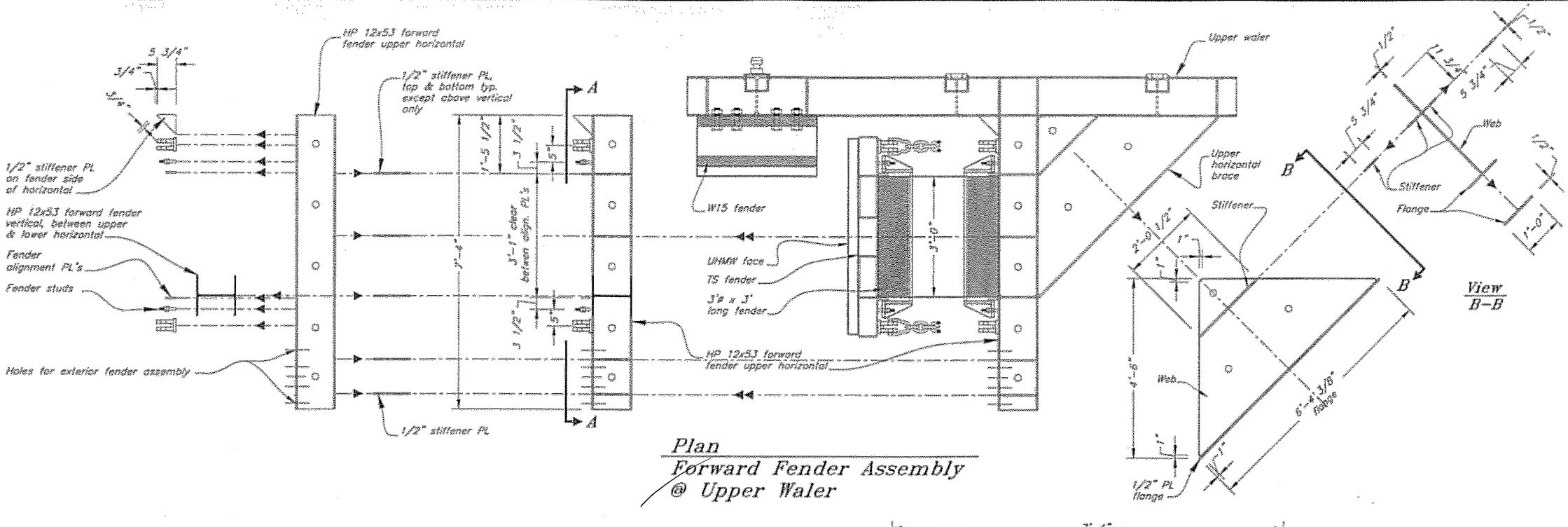
DESIGNED BY: J. Scott
DRAWN BY: J. Scott, T. Moras
CHECKED BY: K. Miller
PATH: G:\Proj\67844\all\Present\51 Fwd Fender@ Lower Fwd.dwg
PLOT: PSPACE 1=1
Thu, 10-Feb-05 11:08AM

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
& PUBLIC FACILITIES
S.E. REGION DESIGN & ENGINEERING SERVICES DIVISION

Coffman Cove Ferry Terminal
Project 67844
Forward Fender Assembly @ Lower Waler & Horizontal

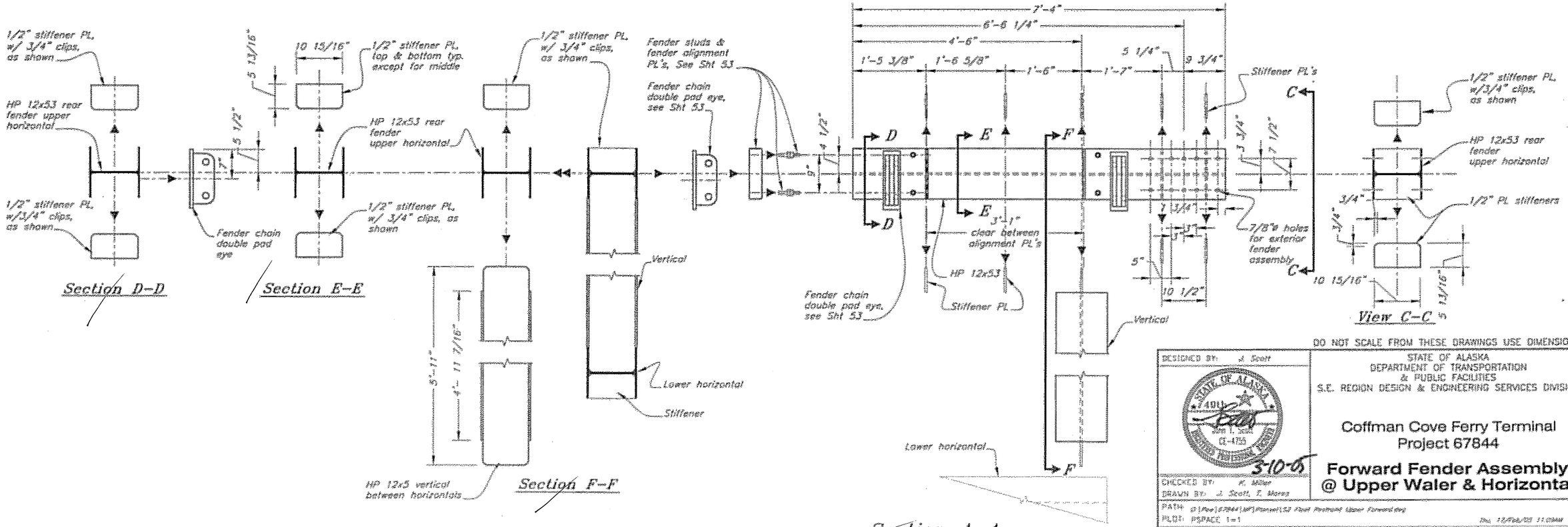
REVISIONS NO.	DATE	DESCRIPTION	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			67844	2005	51	99

V 2/07



View B–B

Plan
Forward Fender Assembly
@ Upper Waler



Section D–D

Section E–E

Section F–F

View C–C

Section A–A
Upper Forward Horizontal

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

DESIGNED BY: J. Scott
CHECKED BY: K. Miller
DRAWN BY: J. Scott, T. Morris
PATH: G:\Proj\67844\all\Plansel\53 Fwd Fender Upper Forward.dgn
PLOT: PSPACE 1=1
Thu, 10-Feb-05 11:09AM

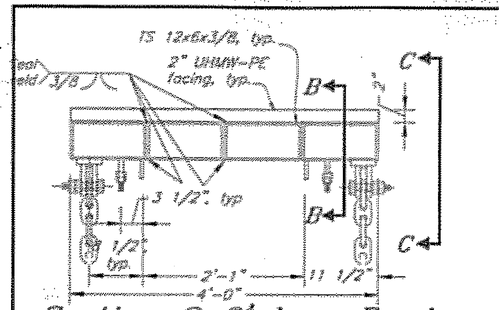
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
S.E. REGION DESIGN & ENGINEERING SERVICES DIVISION

Coffman Cove Ferry Terminal
Project 67844

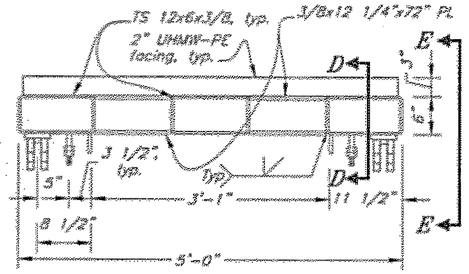
Forward Fender Assembly @ Upper Waler & Horizontal

REVISIONS NO	DATE	DESCRIPTION	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			67844	2005	52	99

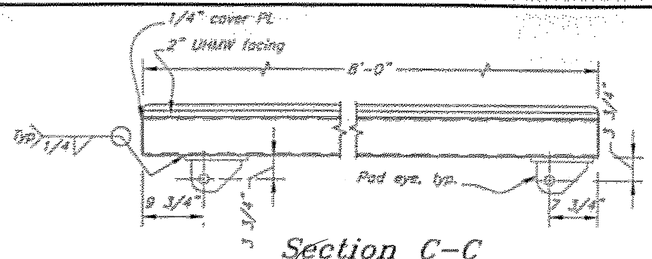
✓ GD 2/07



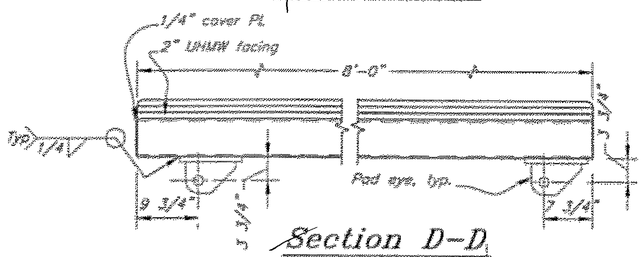
Section @ 2' long Fender
Fender Panel



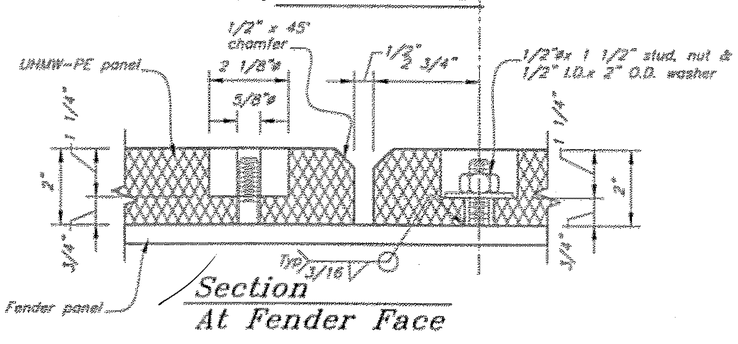
Section @ 3' long Fender
Fender Panel



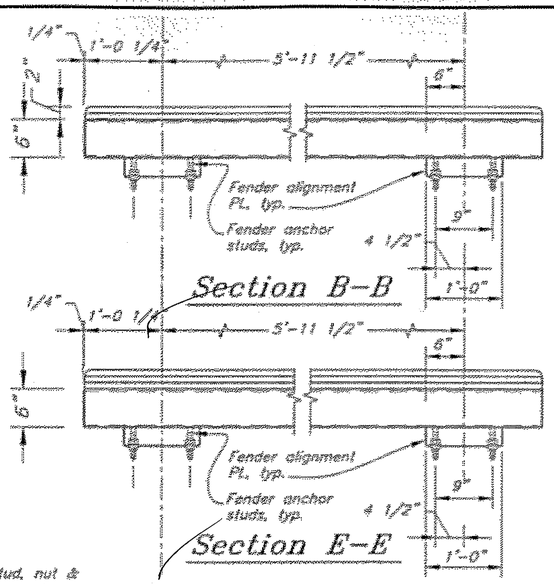
Section C-C



Section D-D

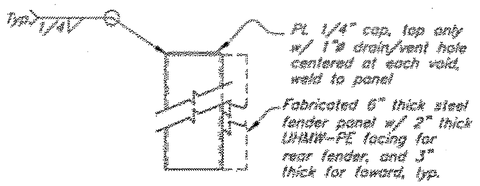


Section
At Fender Face

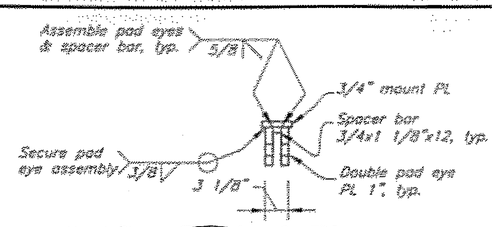


Section B-B

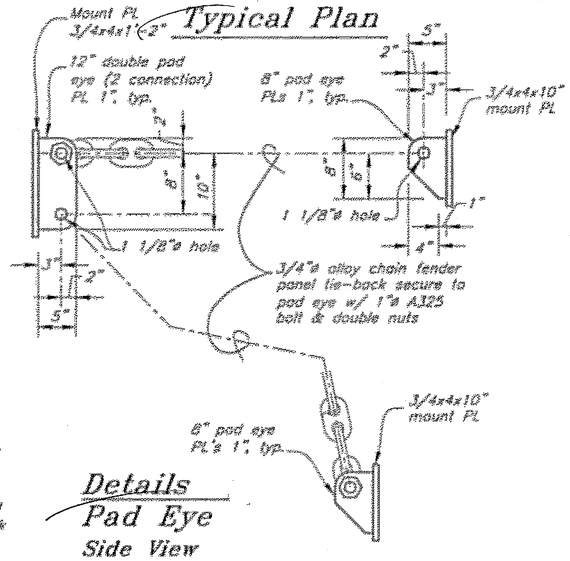
Section E-E



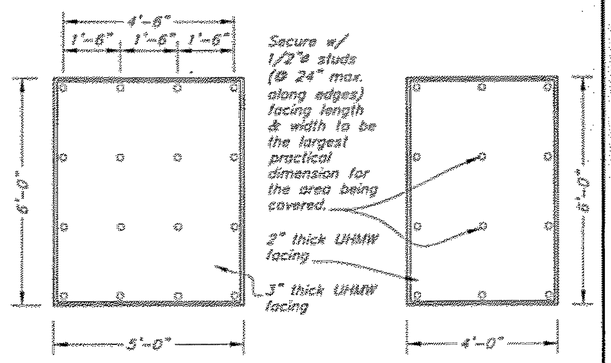
Elev. Detail @ Top
of Fender Panel



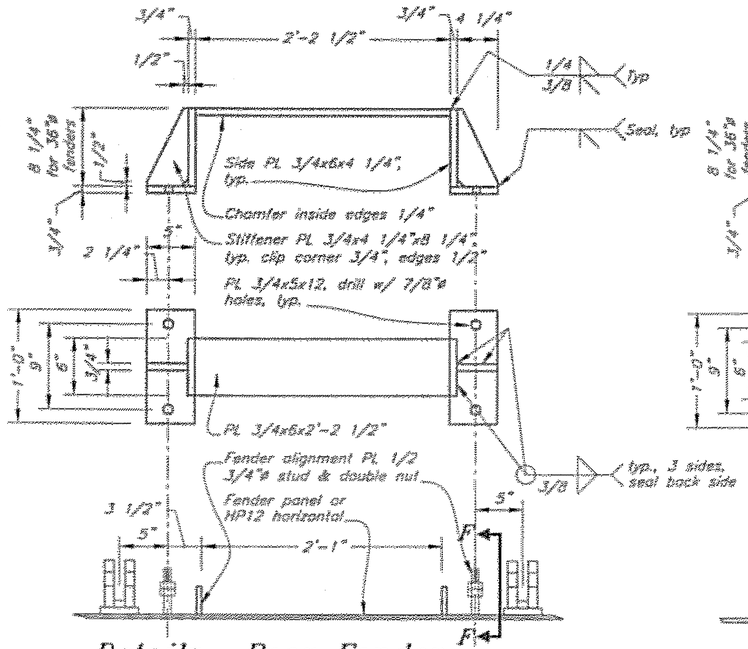
Typical Plan



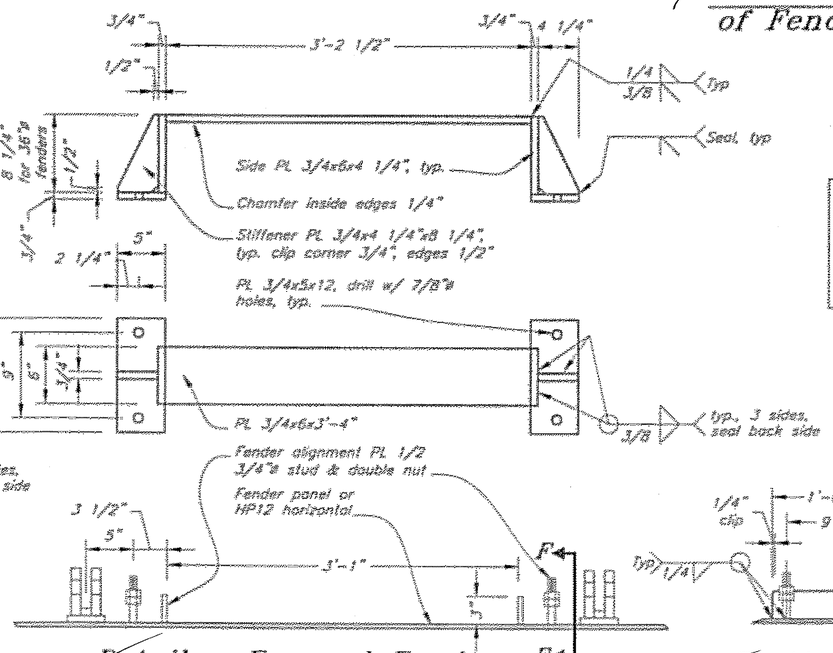
Details
Pad Eye
Side View



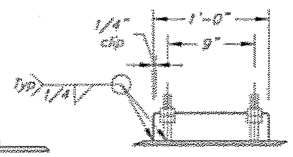
Front Elevation
Fender Panel



Details- Rear Fender
Mount Bracket & Mounting
(for 36"ø x 2'-0" long fenders)



Details- Forward Fender
Mount Bracket & Mounting
(for 36"ø x 2'-0" long fenders)



Section F-F

Note: Submit facing & stud layouts for approval. Coordinate facing installation with HDPE panel supplier. UHMW sheet size, space between sheets, hole size & hole location per manufacturer's recommendation.

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

DESIGNED BY: J. Scott
DRAWN BY: J. Scott, T. Moses
CHECKED BY: K. Miller
PATH: D:\Proe\67844\dtl\Planset\53 Restraint collar panel.dwg
PLOT: PSPACE 1=1

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
S.E. REGION DESIGN & ENGINEERING SERVICES DIVISION

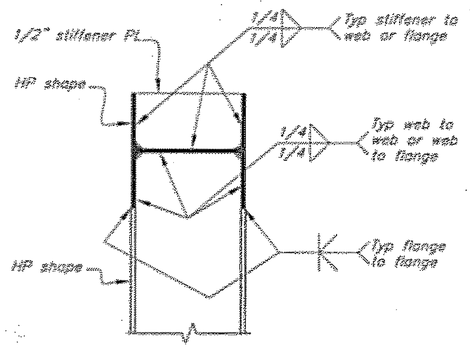
Coffman Cove Ferry Terminal
Project 67844

Restraint Collar Fender Panel & Brackets Details

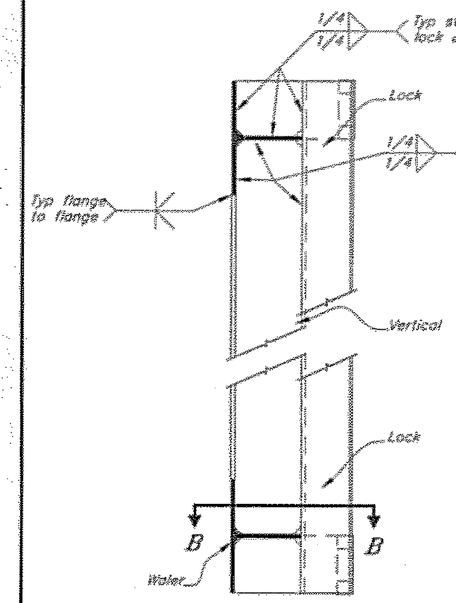
3-10-05

REVISIONS NO.	DATE	DESCRIPTION	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
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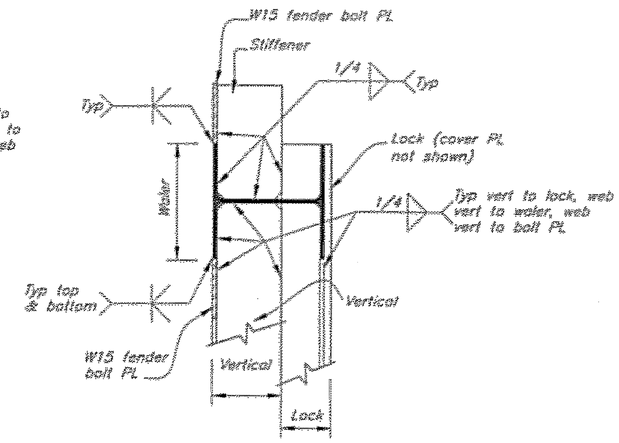
✓ JMD 2/07



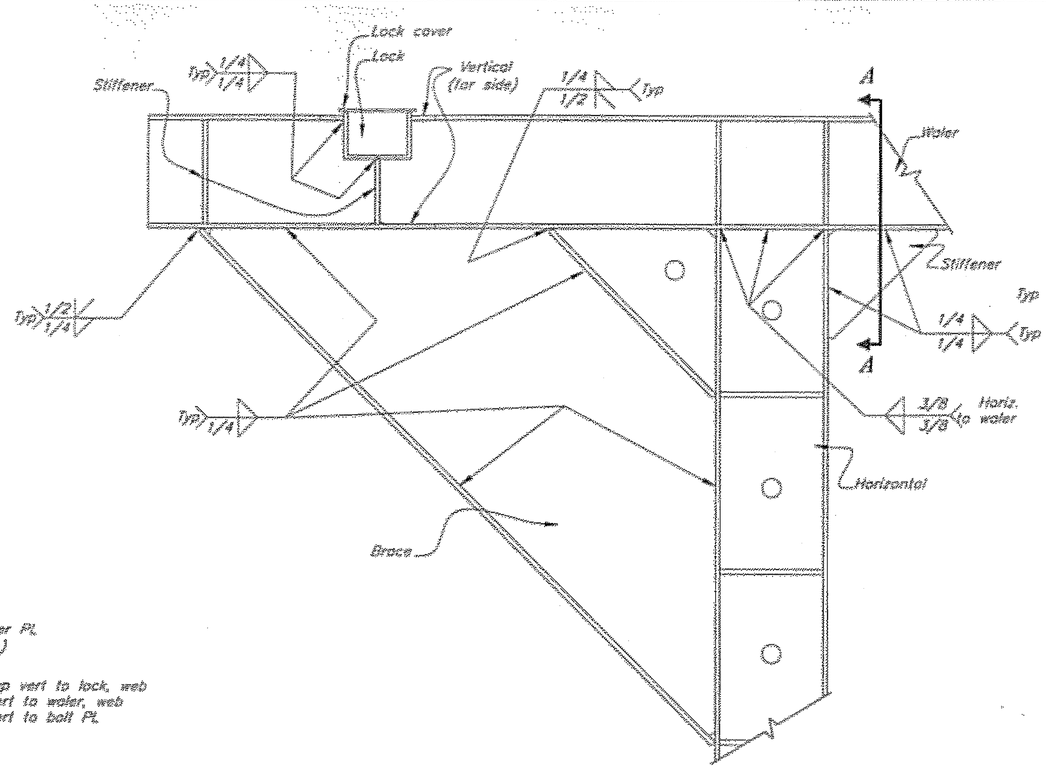
@ Vertical to Horizontal & Stiffeners



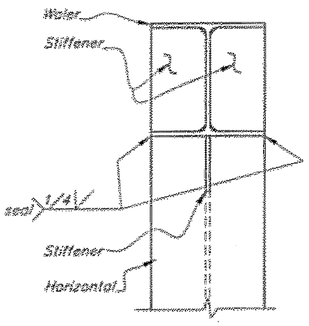
@ Lock to Vertical & Walers



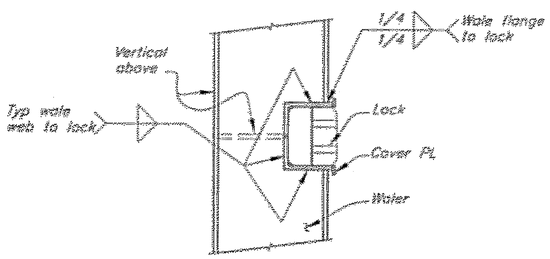
@ Bolt PL & Lock



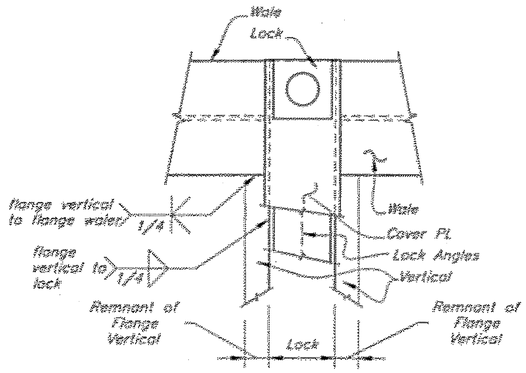
Waler to Horizontal & Brace



Section A-A



Section B-B



Elevation of Lock @ Wale

Weld Details

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

DESIGNED BY: J. Scott
DRAWN BY: J. Scott, T. Mores
CHECKED BY: K. Miller
PATH: G:\Pw\67844\all\Planset\54 Float Restraint and Detailing
PLOT: PSPACE 1=1
Thu 12/08/05 11:11AM

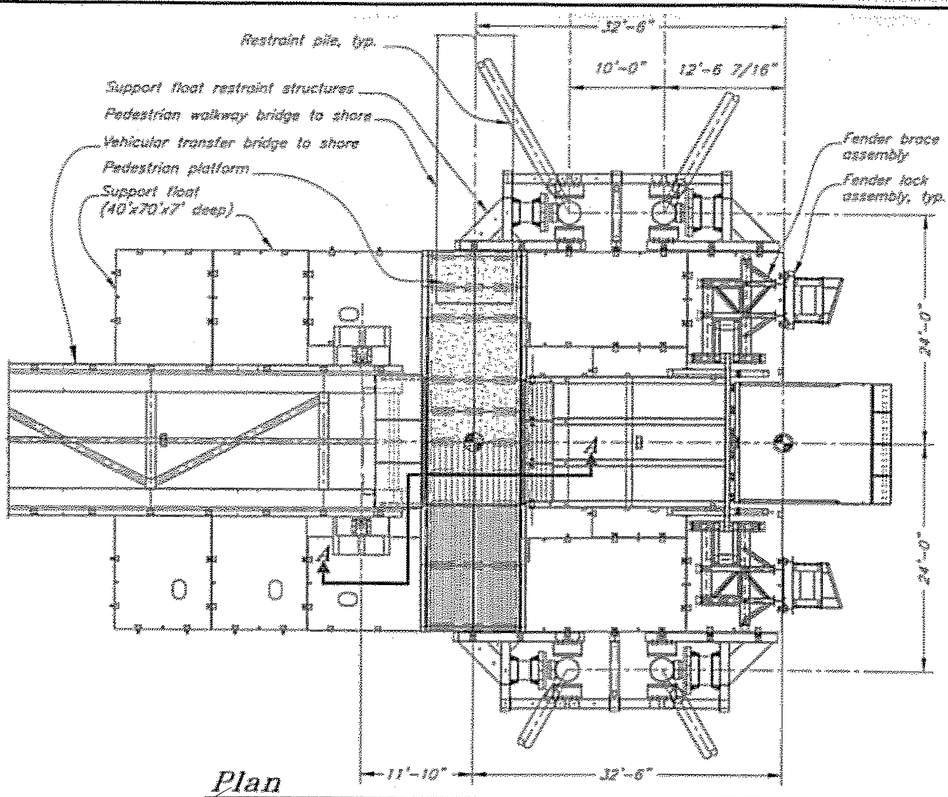
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
S.E. REGION DESIGN & ENGINEERING SERVICES DIVISION

Coffman Cove Ferry Terminal
Project 67844

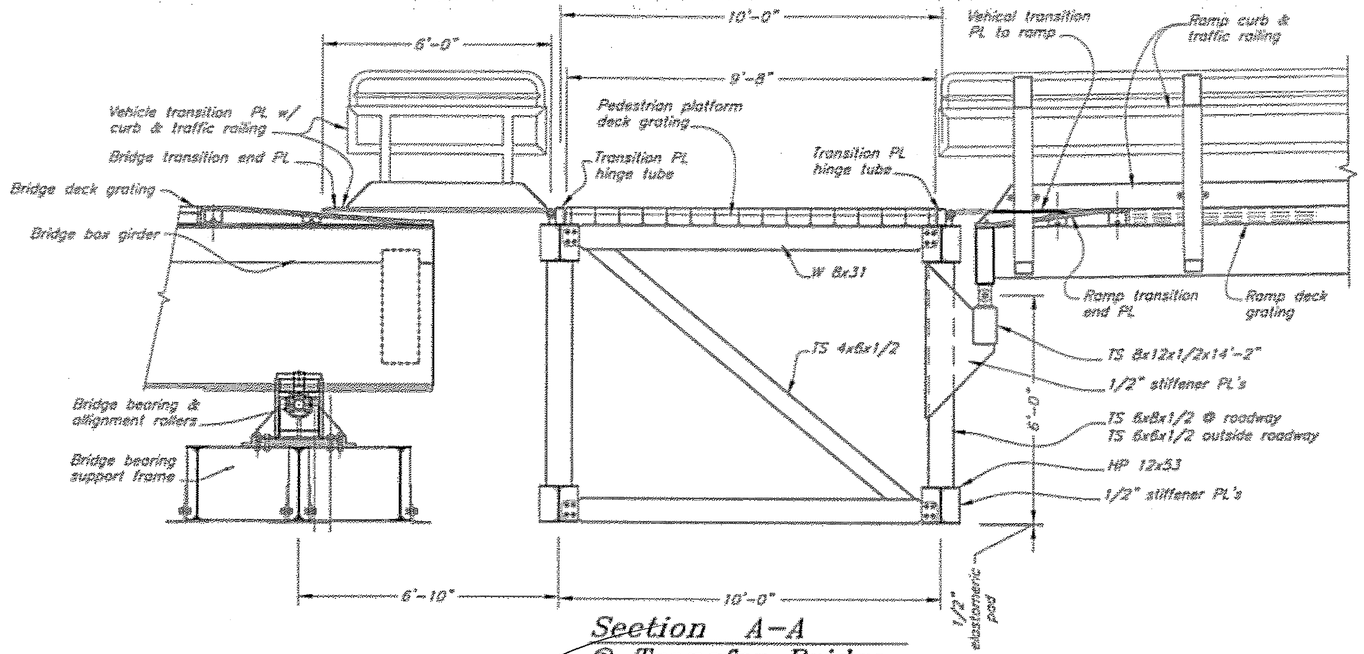
Float Restraint Assembly Weld Details

REVISIONS NO	DATE	DESCRIPTION	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
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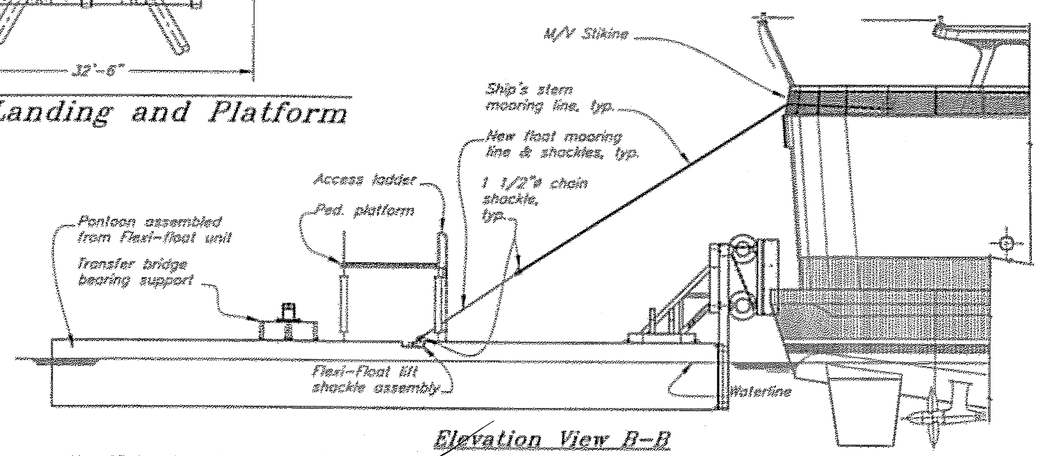
2/07



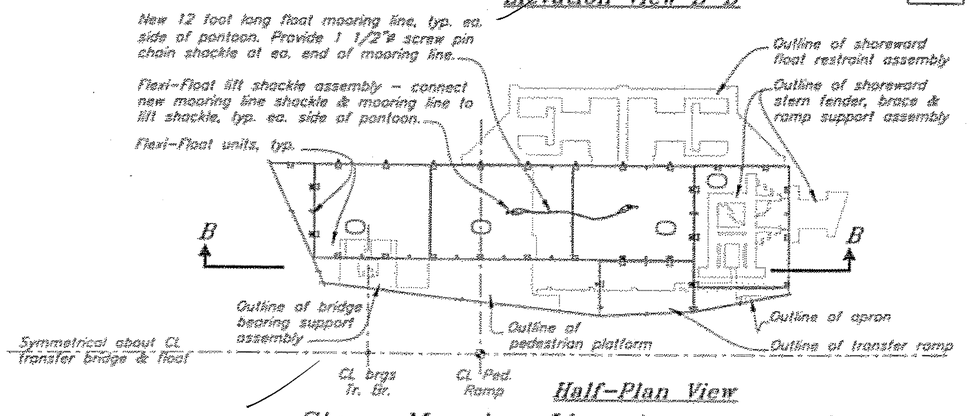
Plan
Pedestrian Bridge Landing and Platform



Seetion A-A
@ Transfer Bridge



Elevation View B-B



Half-Plan View

Stern Mooring Line Arrangement

Note: Float Mooring Line shall be new 12 foot long with epoxy spelter socketed loops or spliced loops at each end. Rope shall be either 1"ø "Plasma Rope" or 1 1/4"ø "Kevlar Rope". Provide 1 1/2"ø screw pin chain shackle at each loop.

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

DESIGNED BY: NAME
DRAWN BY: J. Scott, T. Morez
CHECKED BY: NAME
PATH: O:\Pw\67844\MF\Planset\55 Pedestrian Platform.dwg
PLOT: PSPACE 1=1
Wed, 23/Feb/05 02:23PM

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
S.E. REGION DESIGN & ENGINEERING SERVICES DIVISION

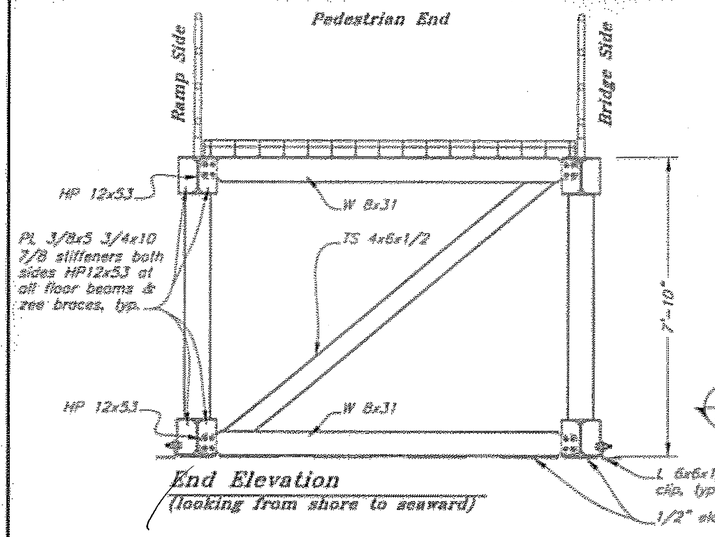
Coffman Cove Ferry Terminal
Project 67844

Pedestrian Platform Layout

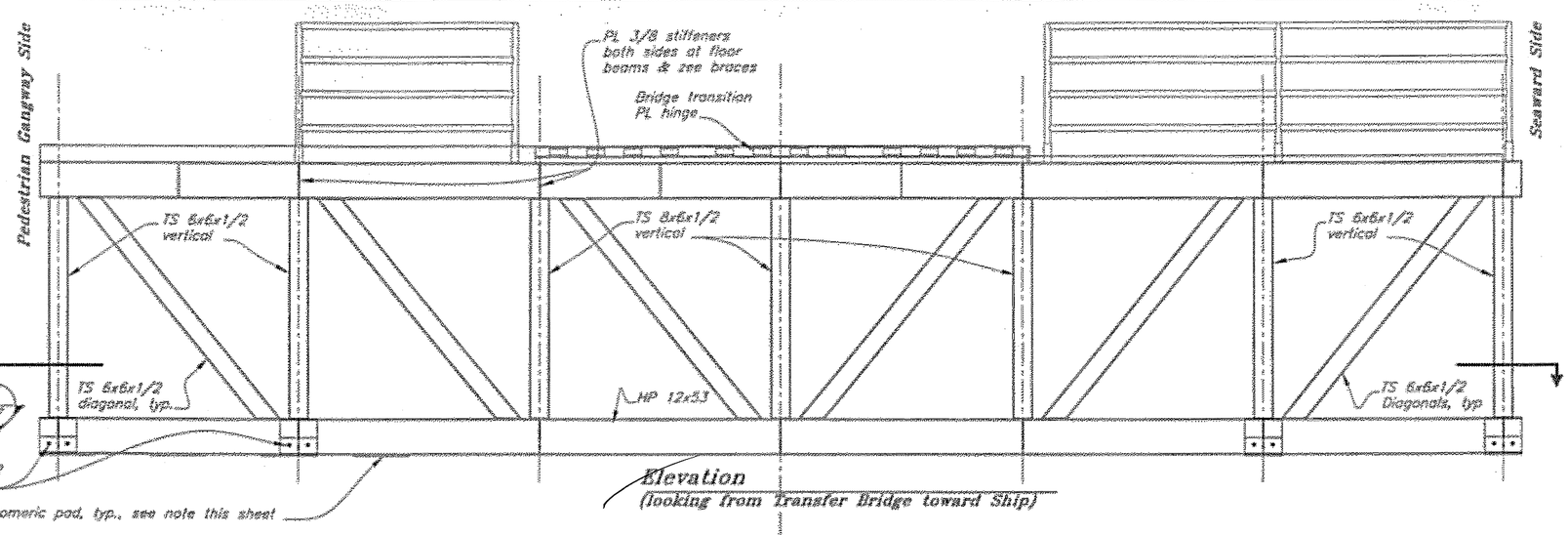
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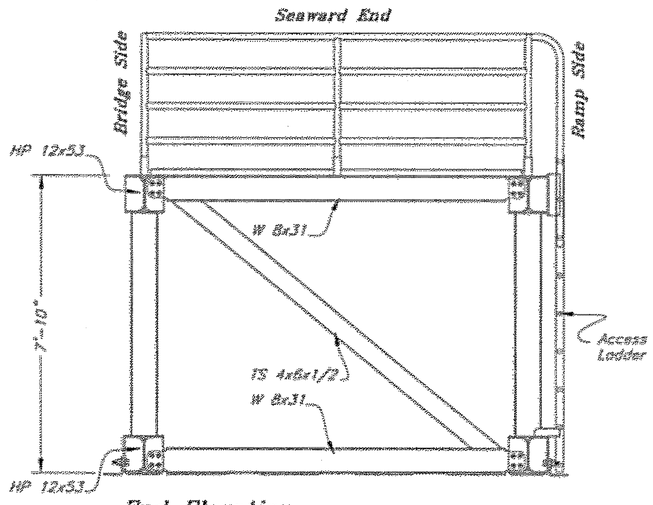
V 2/07



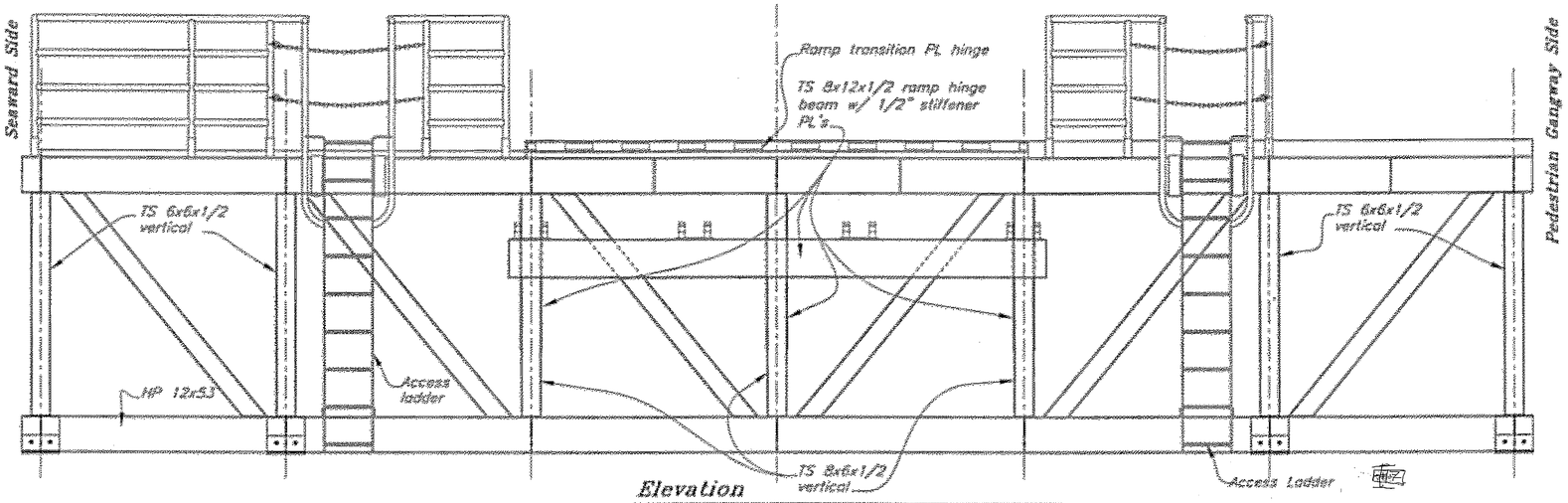
End Elevation
(looking from shore to seaward)



Elevation
(looking from Transfer Bridge toward Ship)



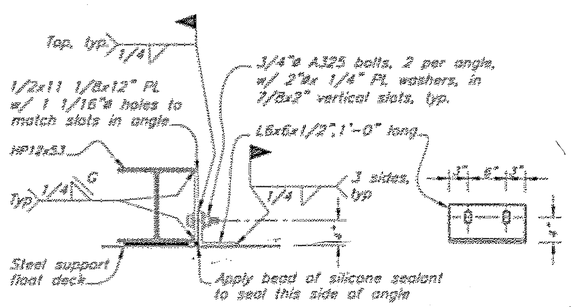
End Elevation
(looking from seaward to shore)



Elevation
(looking from Ramp toward Transfer Bridge)

Pedestrian Bridge Landing & Platform

NOTE: 1/2" x 7"x12" 50 Duro 1/2x10x18" long elastomeric pad at ea. vertical, ea. deck clip, & where req'd to provide 24" max. between pads



Clip Detail

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

DESIGNED BY: J. Scott
DRAWN BY: J. Scott, T. Mores
CHECKED BY: Name

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
S.E. REGION DESIGN & ENGINEERING SERVICES DIVISION

Coffman Cove Ferry Terminal
Project 67844

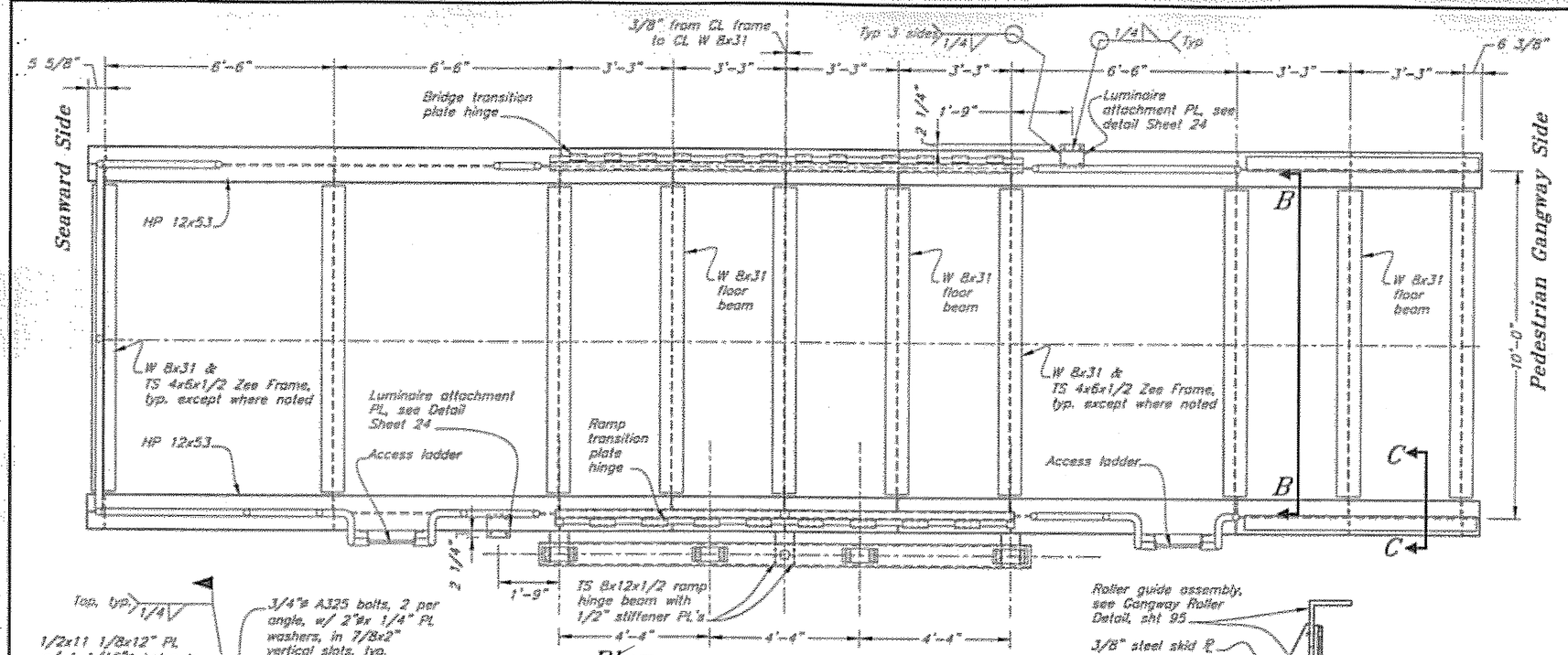
Pedestrian Platform Frame Elevations

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PLOT: RSPACE 1=1
Rev. 12/Feb/05 11:20AM

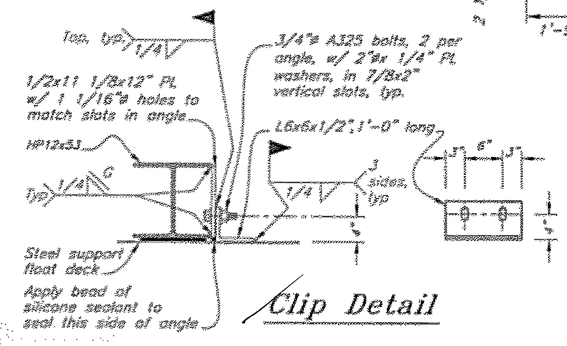
REVISIONS NO	DATE	DESCRIPTION	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
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3-10-05

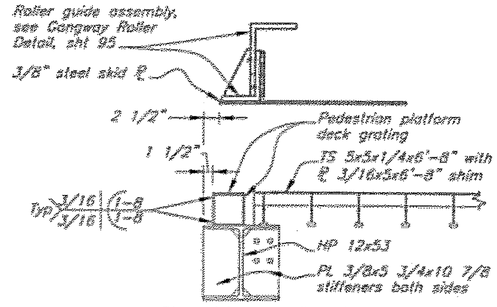
J MS 2/07



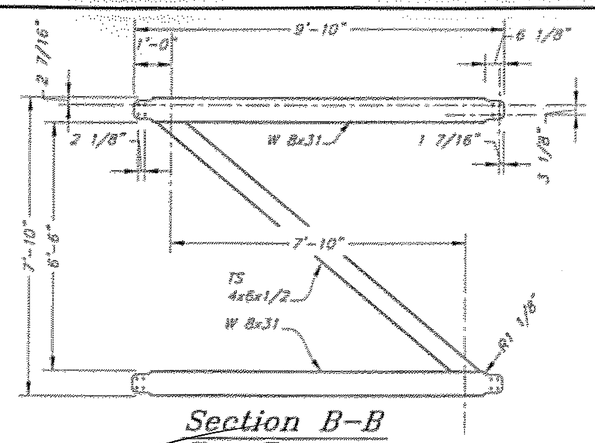
Plan
Pedestrian Platform Frame



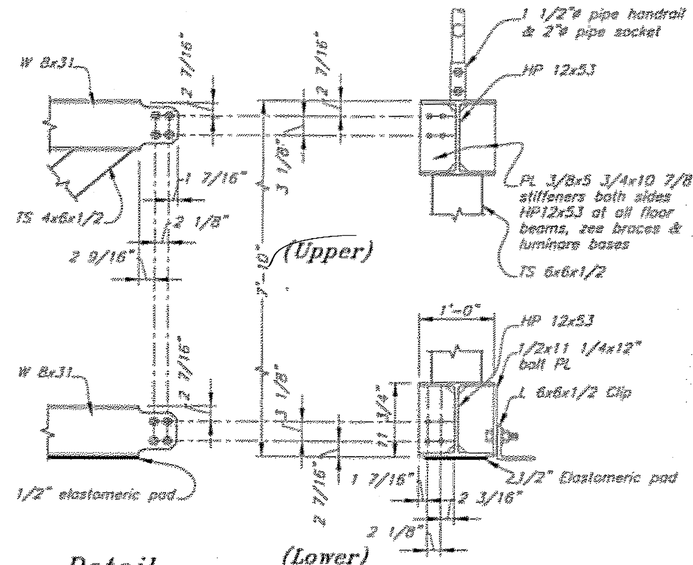
Clip Detail



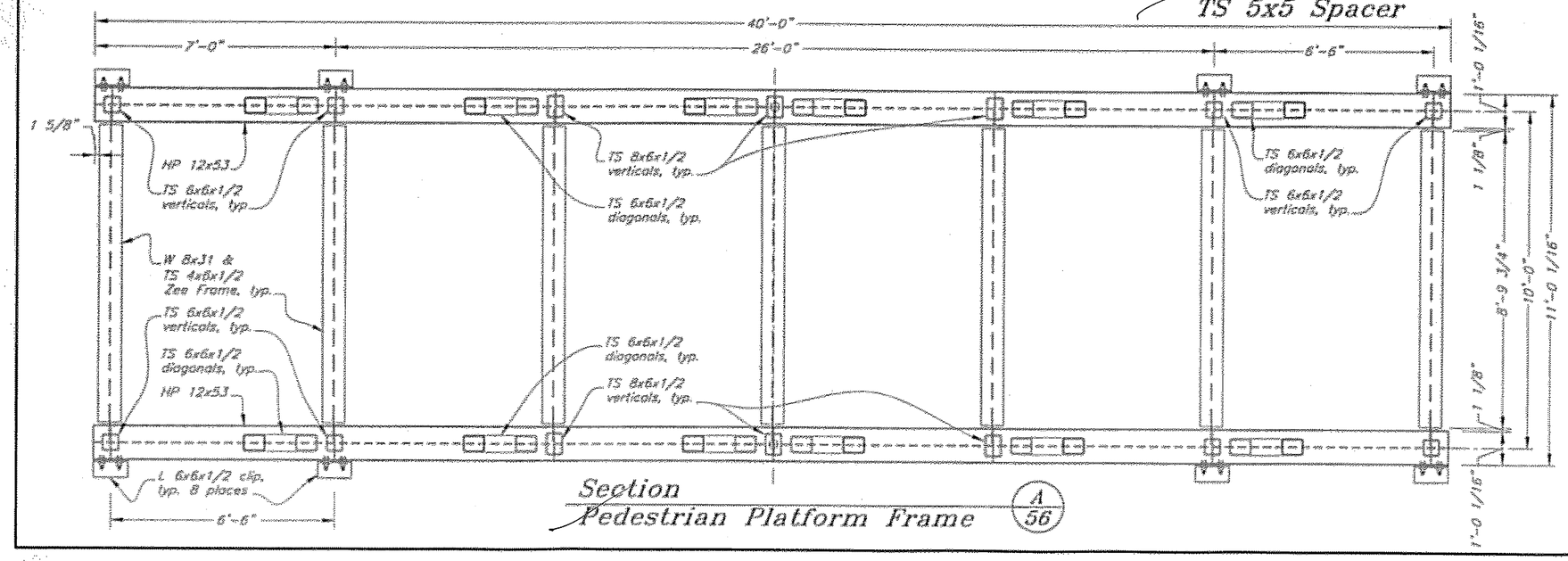
Section C-C
TS 5x5 Spacer



Section B-B
Zee Frame



Detail
Connections @ W 8x31 to HP 12x53



Section
Pedestrian Platform Frame
A/56

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

DESIGNED BY: NAME
DRAWN BY: J. Scott, T. Mores
CHECKED BY: NAME
PATH: O:\Plan\67844\MF\Planset\57 PED PLATFORM FRAME LAYOUT.DWG
PLOT: PSPACE 1=1
Thu, 12/Feb/05 11:59AM

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
S.E. REGION DESIGN & ENGINEERING SERVICES DIVISION

Coffman Cove Ferry Terminal
Project 67844

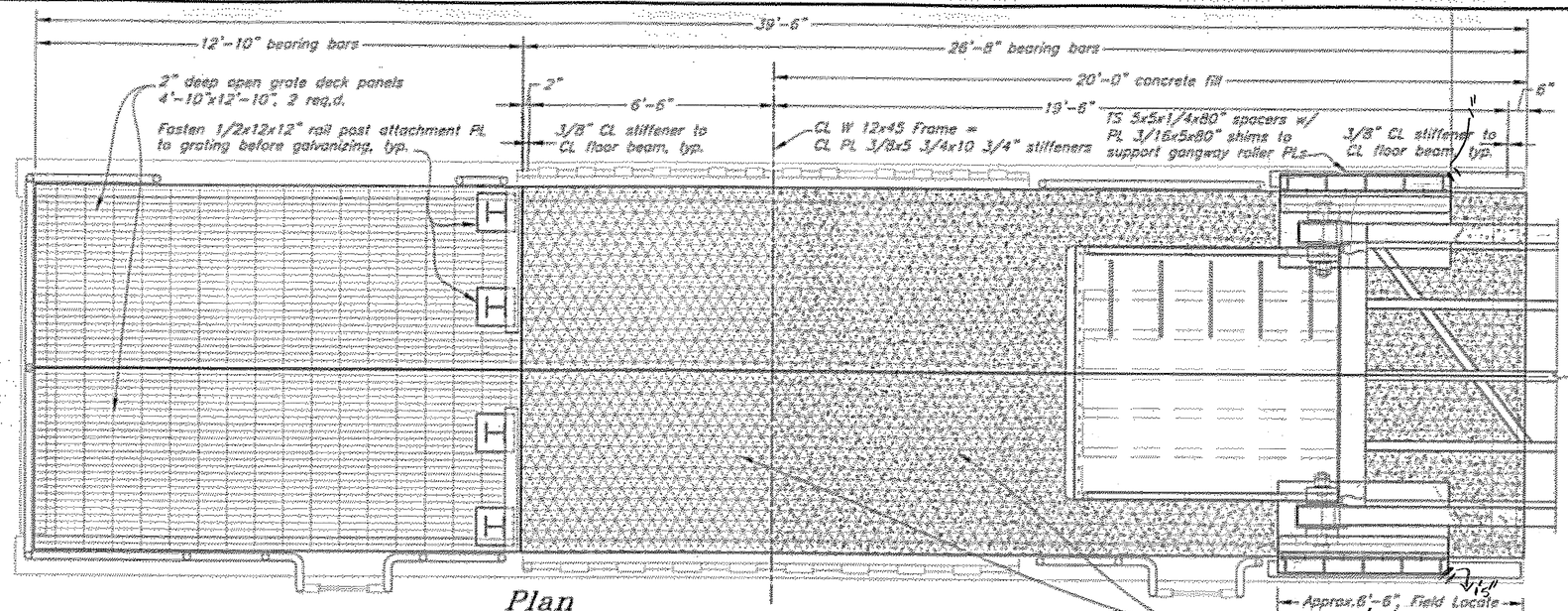
Pedestrian Platform Frame Layout

REVISIONS NO.	DATE	DESCRIPTION	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			67844	2005	57	99

3005

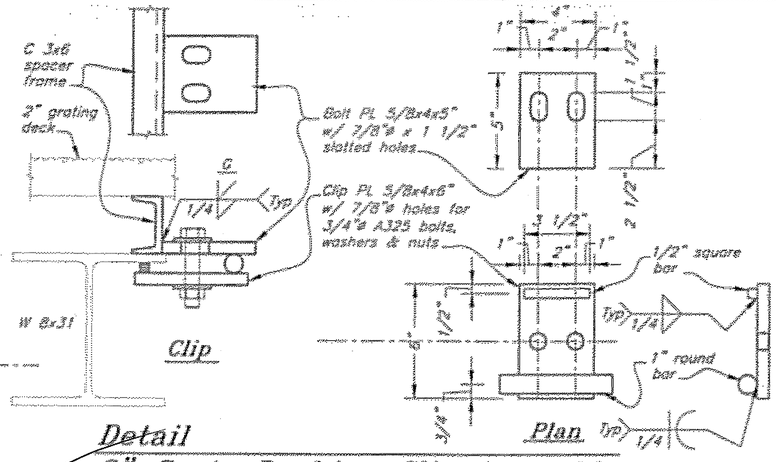
V JMS 2/07

6'11"



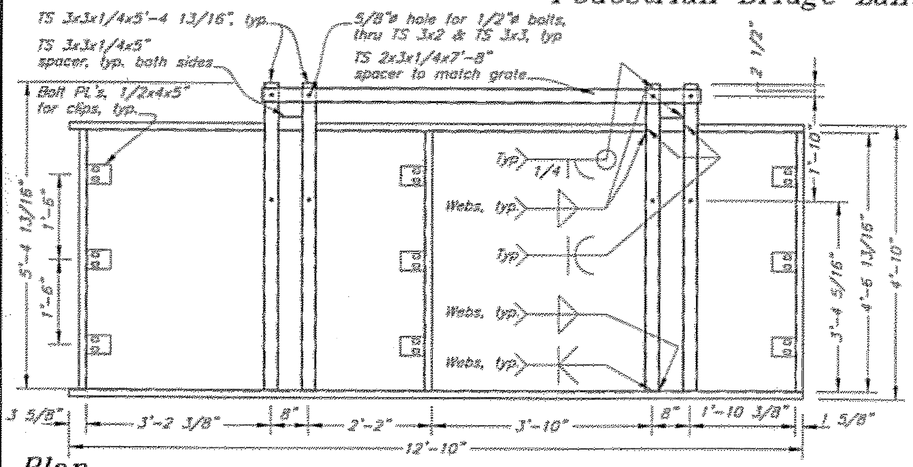
Plan

Pedestrian Bridge Landing & Platform



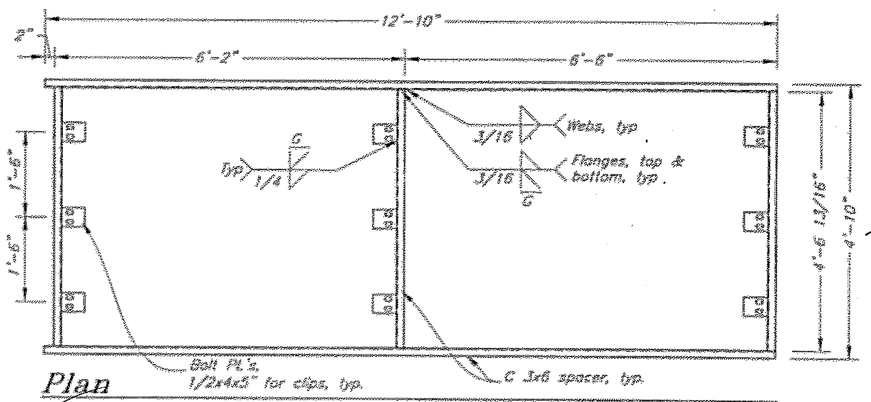
Detail

2" Grate Decking Clip Assembly



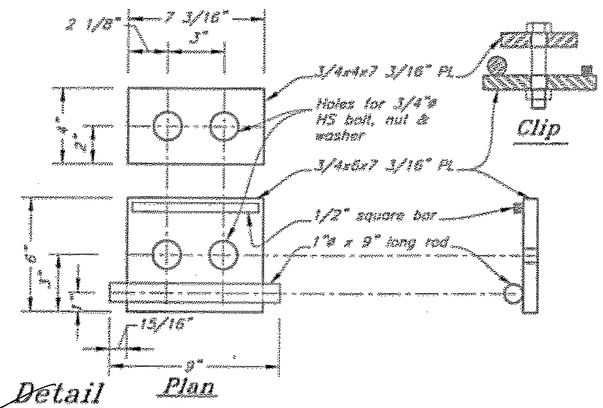
Plan

C3x6 Spacer Frame for 2" Grating at Electric Panels



Plan

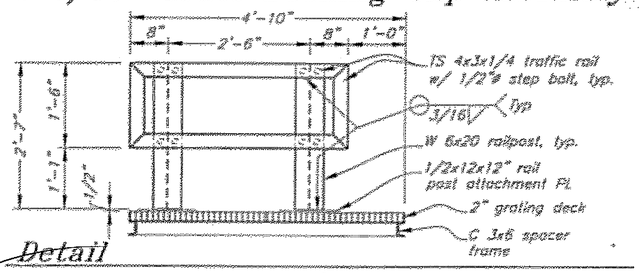
C 3x6 Spacer Frame for 2" Grating, Seaward Half



Detail

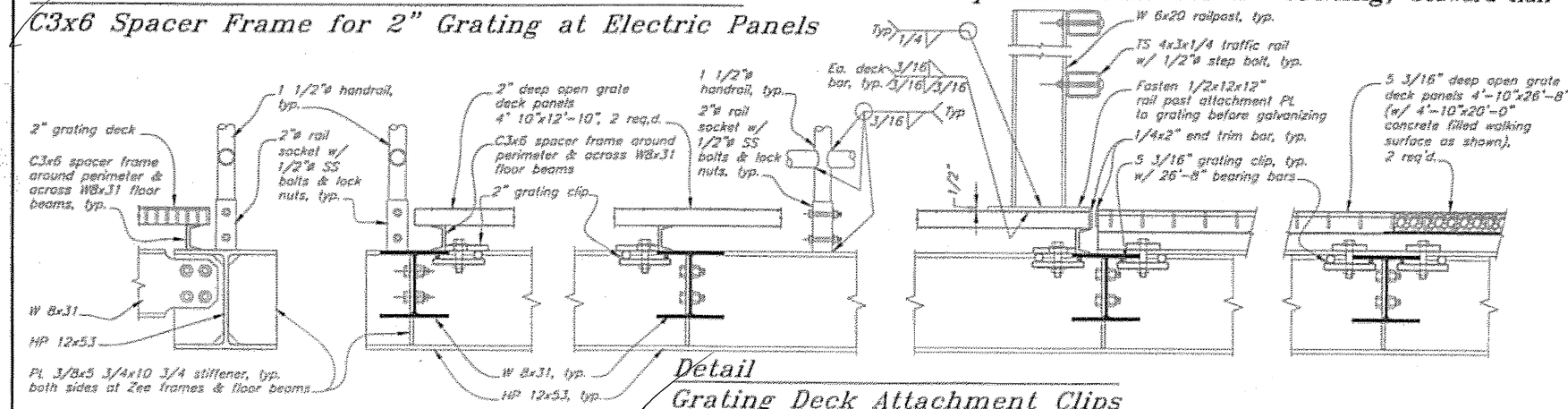
Plan

5 3/16" Grate Decking Clip Assembly



Detail

Traffic Rail, 2 req'd. (Other opposite hand)



Detail

Grating Deck Attachment Clips

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

DESIGNED BY:

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
S.E. REGION DESIGN & ENGINEERING SERVICES DIVISION

Coffman Cove Ferry Terminal
Project 67844

Pedestrian Platform Deck Details

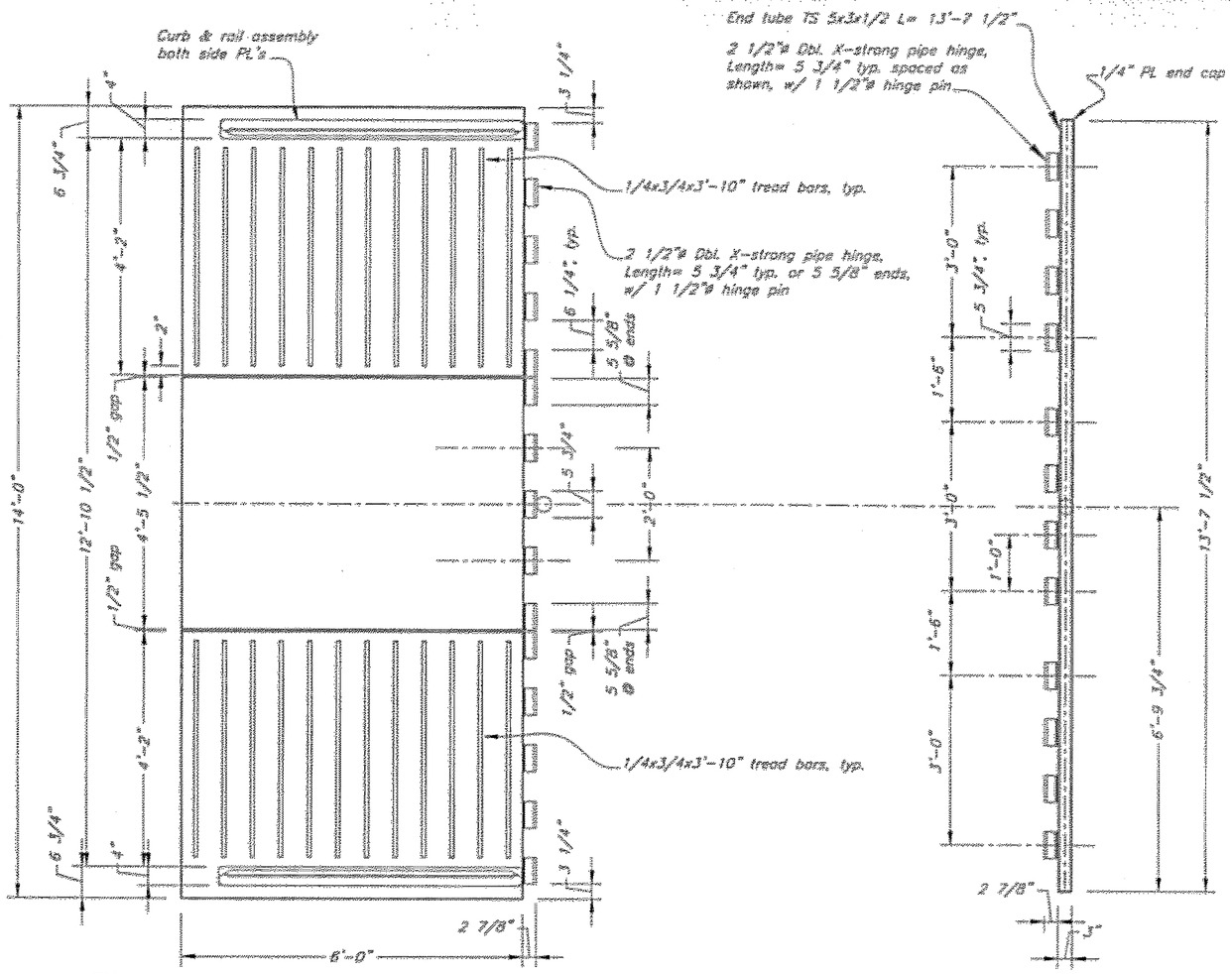
STATE OF ALASKA — 49th — Jon T. Scott — 12-4755 — REGISTERED PROFESSIONAL ENGINEER
3-10-05

CHECKED BY: MMC
DRAWN BY: J. Scott, T. Mateo

PATH: G:\Pw\67844\MF\Plansel\58 Ped Platform Deck Details.dwg
PLOT: #SPACE 1=1
Thu, 12/Feb/05 11:32AM

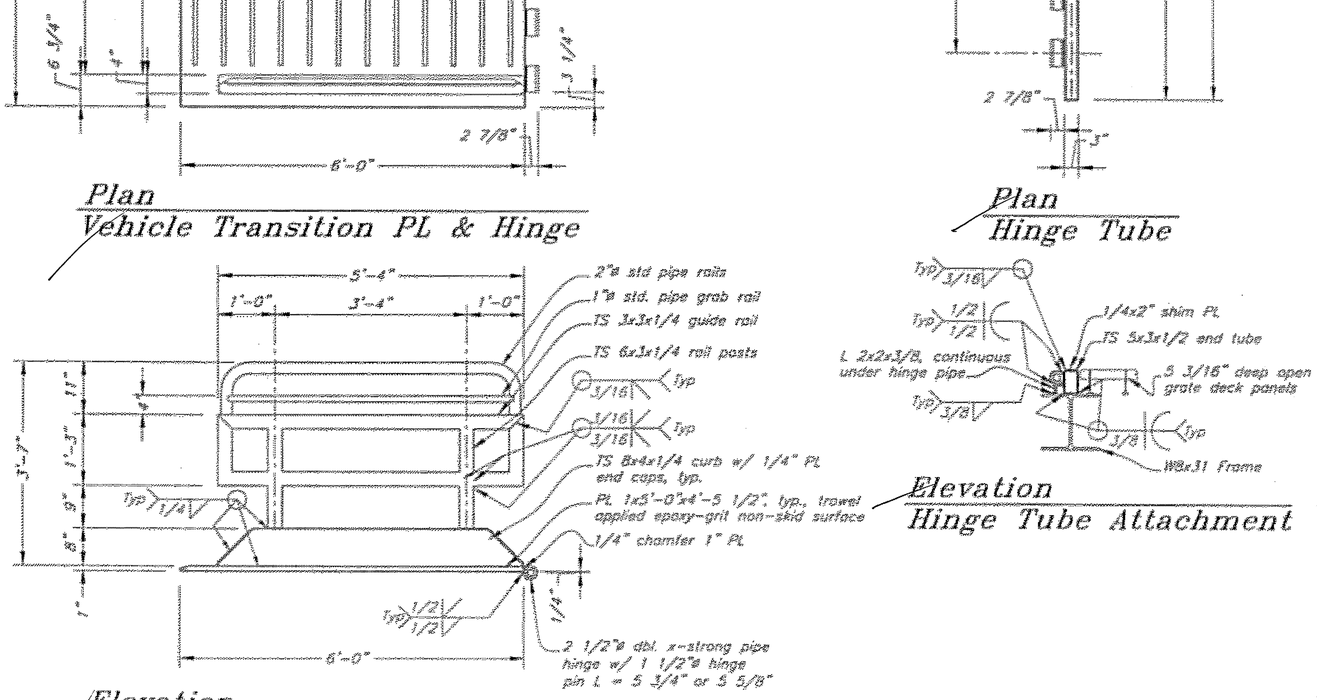
REVISIONS NO.	DATE	DESCRIPTION	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			67844	2005	58	99

JM 2/07



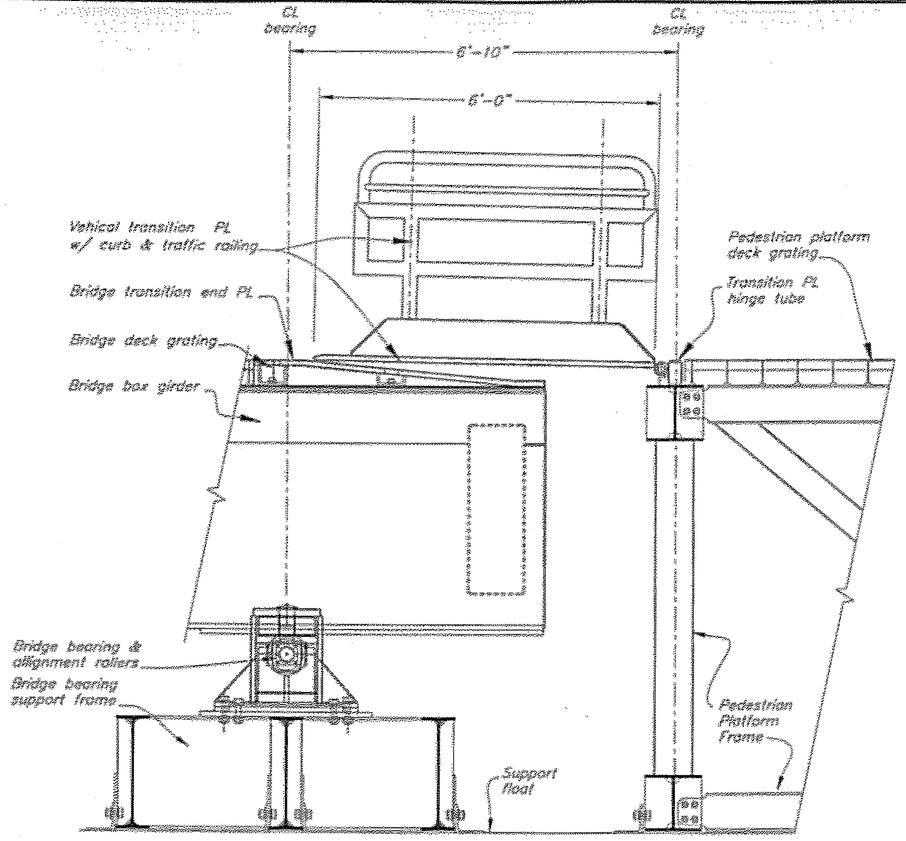
Plan
Vehicle Transition PL & Hinge

Plan
Hinge Tube

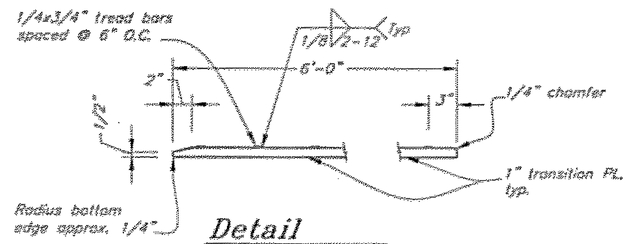


Elevation
Vehicle Transition PL w/ Curb & Railing

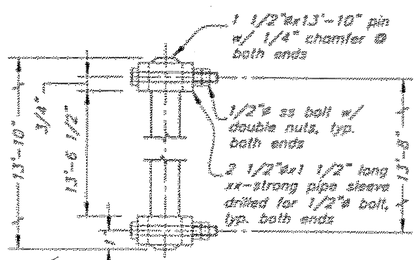
Elevation
Hinge Tube Attachment



Elevation
Vehicle Transition



Detail
Tread Bars



Detail - Hinge Pin

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

DESIGNED BY: NAME
DRAWN BY: J. Scott, T. Mores
CHECKED BY: NAME
PATH: Q:\Pw\67844\MT\Planset\59 Ped Platform Bridge Transition Dtls.dwg
PLOT: PSPACE 1=1
Thu, 12/Feb/05 12:08PM

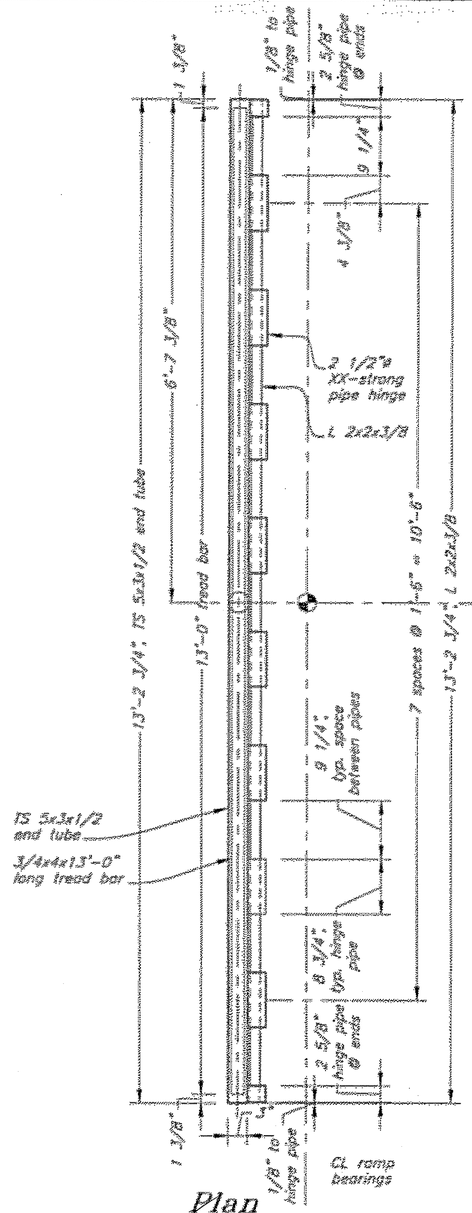
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
S.E. REGION DESIGN & ENGINEERING SERVICES DIVISION

Coffman Cove Ferry Terminal
Project 67844
Pedestrian Platform Transition Details- Shoreward Side

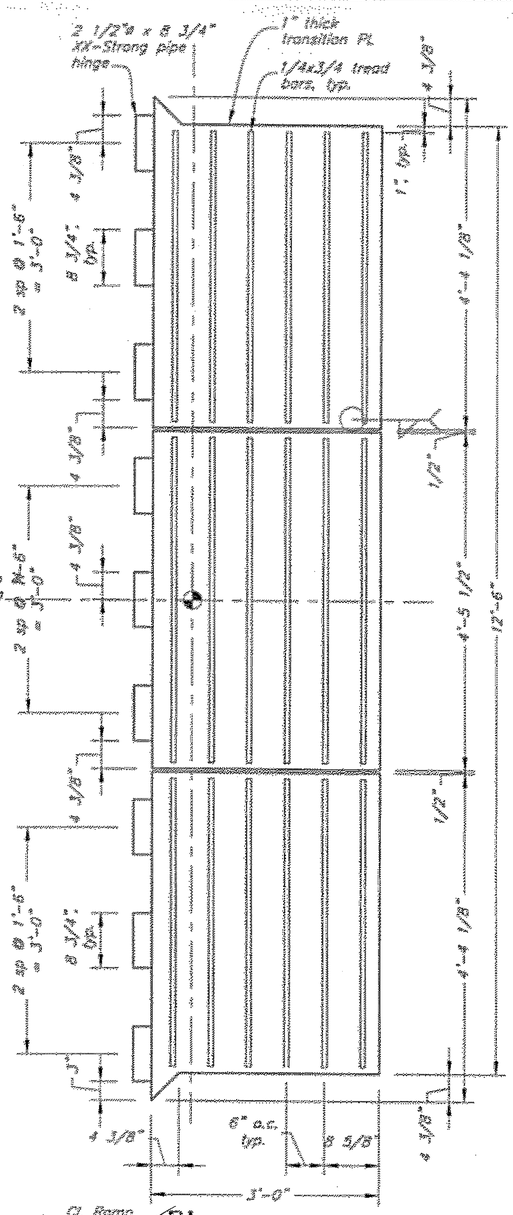
NO.	DATE	REVISIONS DESCRIPTION

PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
67844	2005	59	99

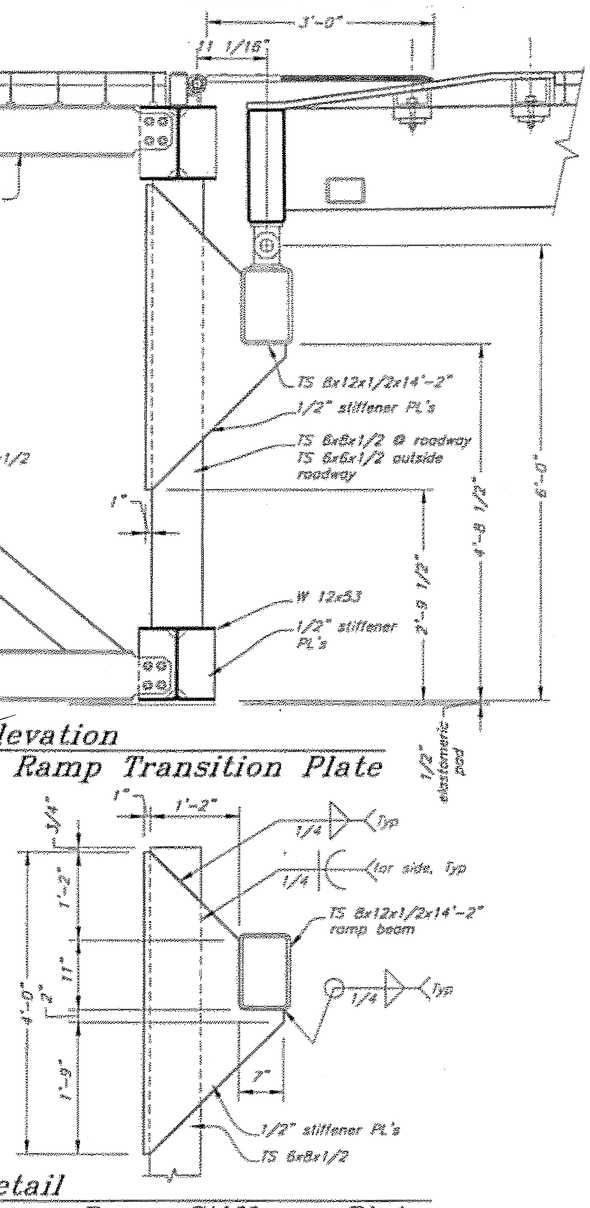
2107



Plan
End Tube

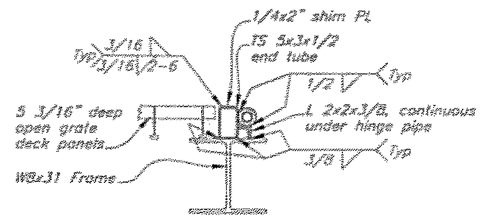


Plan
Transition Plate

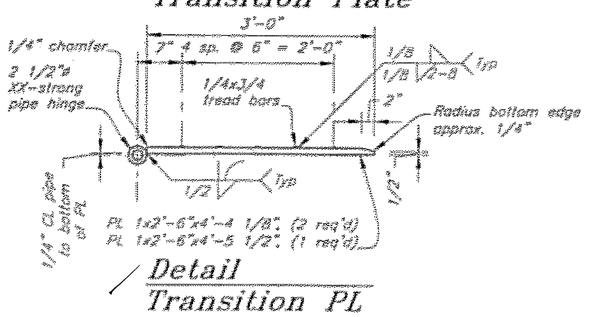


Elevation
@ Ramp Transition Plate

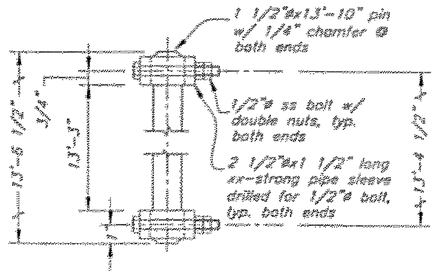
Detail
Ramp Beam Stiffener Plate



Detail
Transition PL Hinge



Detail
Transition PL



Detail
Hinge Pin

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

DESIGNED BY: J. Scott
DRAWN BY: J. Scott, T. Moss
CHECKED BY: J. Beedle

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
S.E. REGION DESIGN & ENGINEERING SERVICES DIVISION

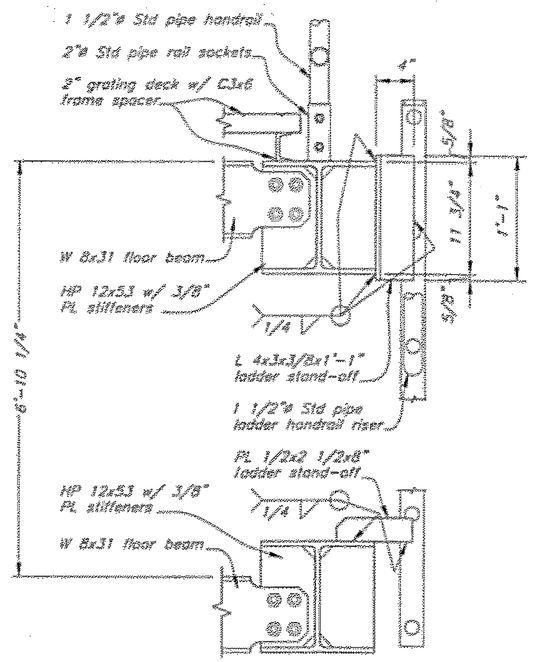
CL-4793
3-10-05

Coffman Cove Ferry Terminal
Project 67844
Pedestrian Platform
Transition PL Ramp Beam
Seaward Side

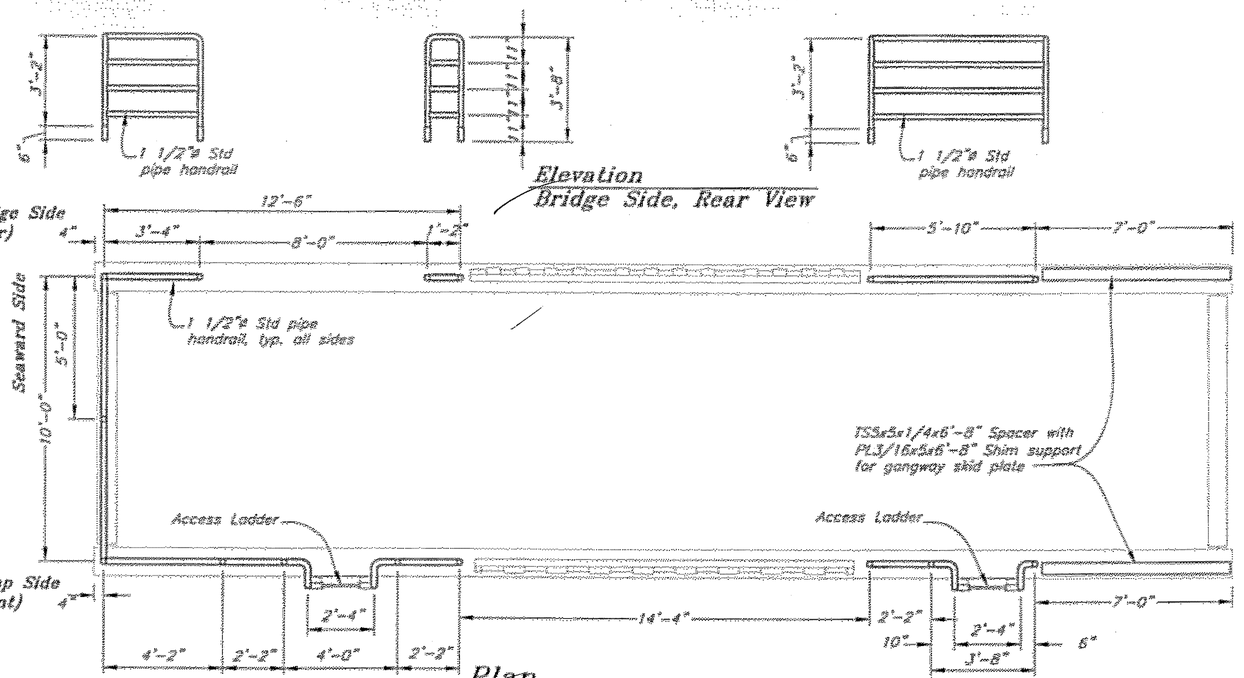
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NO	DATE	REVISIONS DESCRIPTION	PROJECT DESIGNATION	YEAR	SHEET NO	TOTAL SHEETS
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J 9pp 2/07

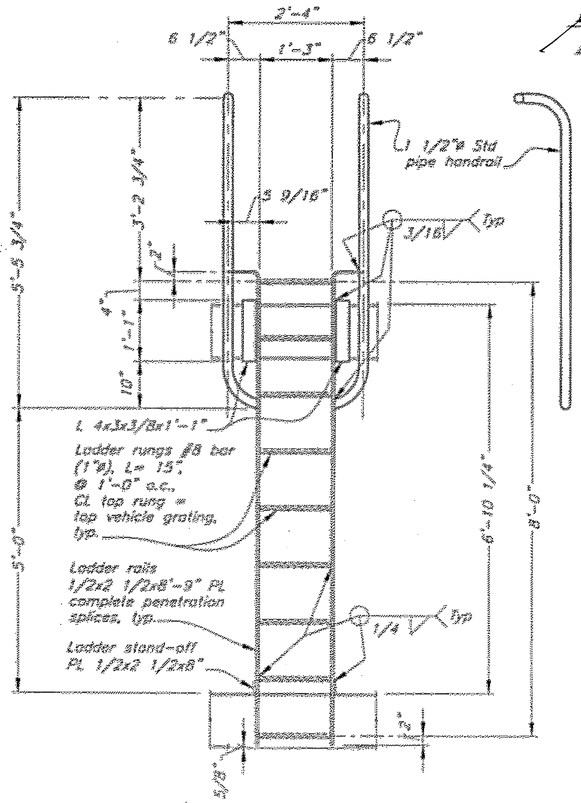


Detail
Access Ladder Bracket

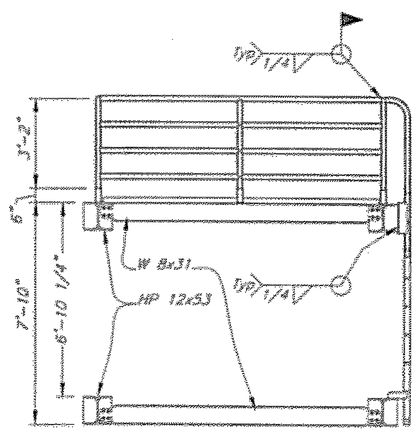


Elevation
Bridge Side, Rear View

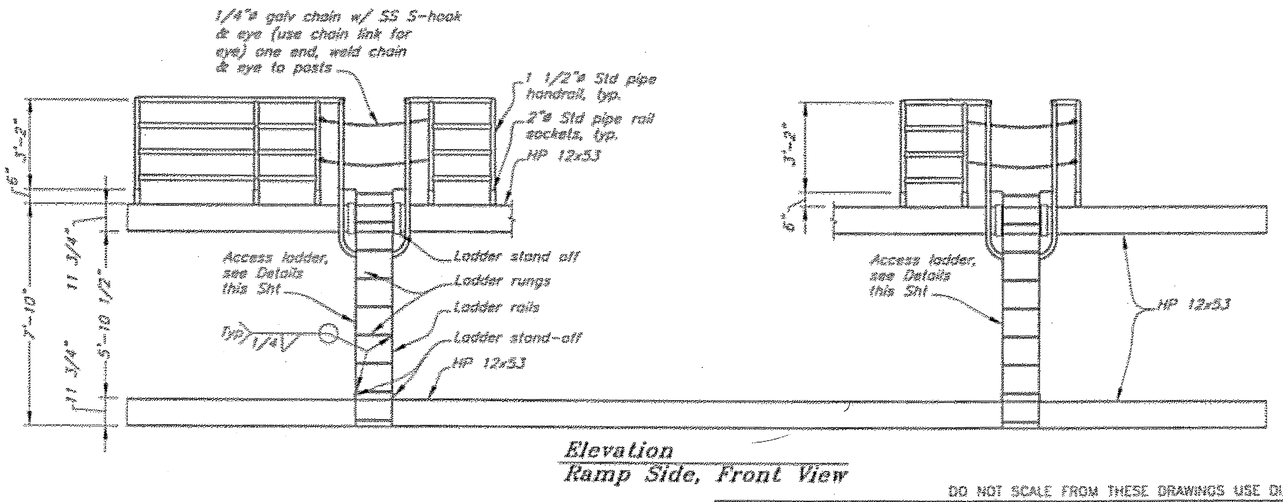
Plan
Pedestrian Gangway Handrail



Detail
Access Ladder



Elevation
Seaward Side View



Elevation
Ramp Side, Front View

Details
Pedestrian Platform Handrail

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

DESIGNED BY: NAME
CHECKED BY: NAME
DRAWN BY: J. Scott, T. Mores

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
S.E. REGION DESIGN & ENGINEERING SERVICES DIVISION

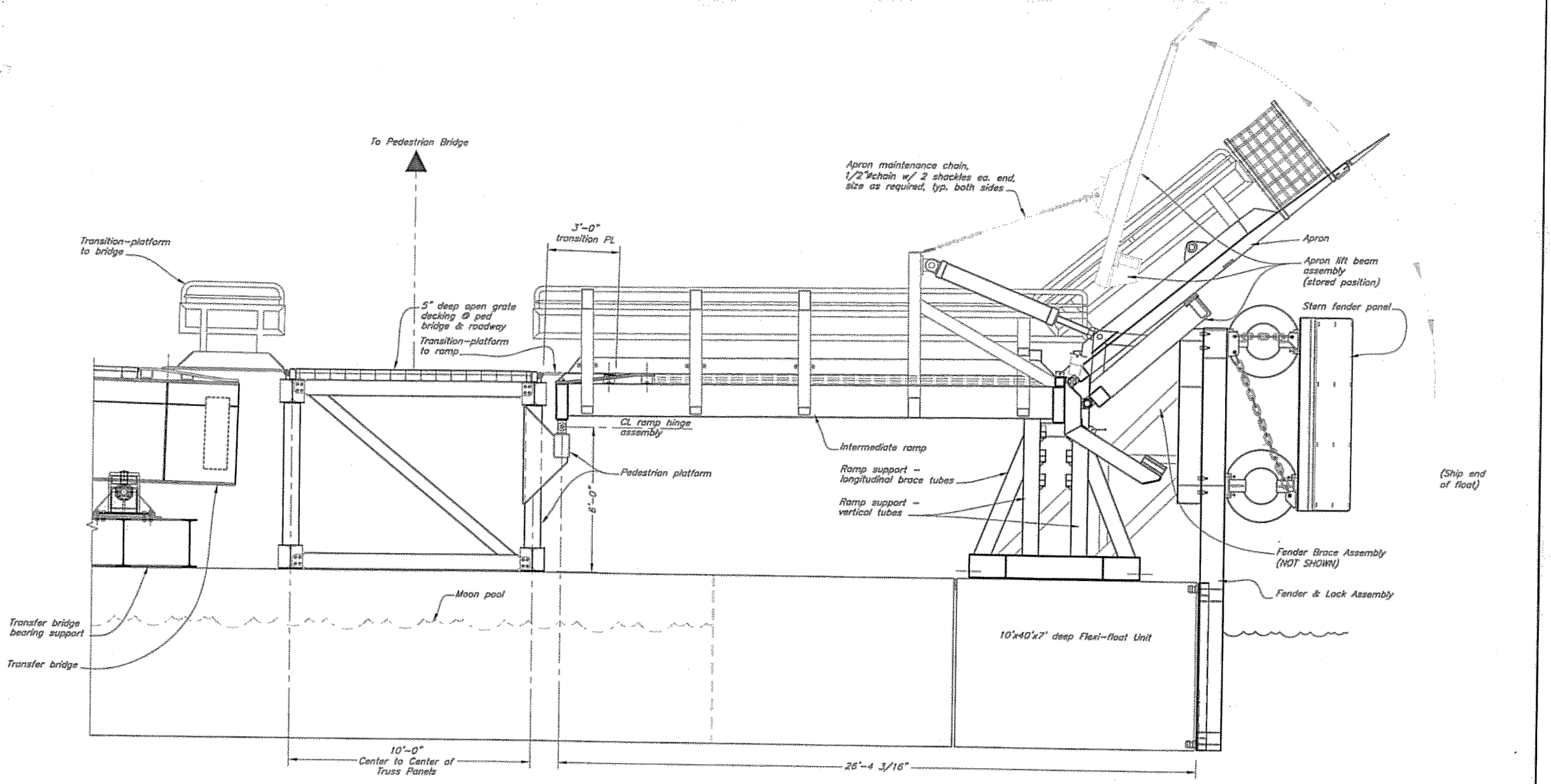
Coffman Cove Ferry Terminal
Project 67844

Pedestrian Platform Handrail Details

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Thu, 12/Feb/05 01:17PM

REVISIONS NO	DATE	DESCRIPTION	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			67844	2005	61	99

2/07



DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

DESIGNED BY: J. Scott

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
& PUBLIC FACILITIES
S.E. REGION DESIGN & ENGINEERING SERVICES DIVISION

STATE OF ALASKA — 49TH — John T. Scott — CE-4755 — REGISTERED PROFESSIONAL ENGINEER

3-10-05

Coffman Cove Ferry Terminal
Project 67844

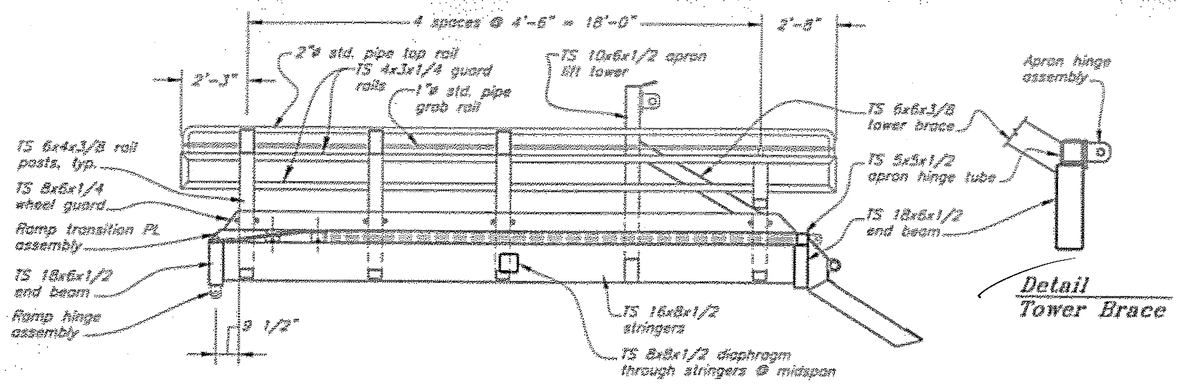
Ramp & Apron Elevation

CHECKED BY: J. Beedle
DRAWN BY: J. Scott, T. Moras

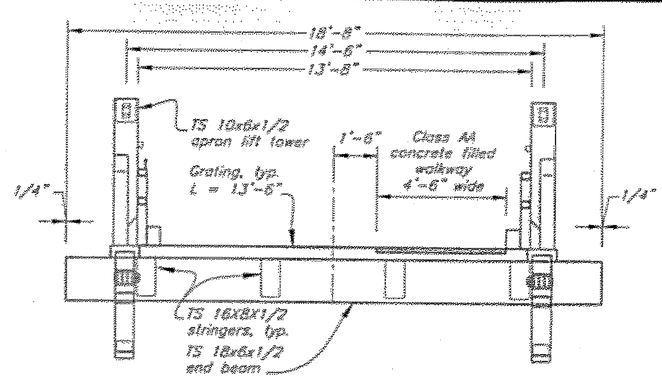
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REVISIONS			PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
NO.	DATE	DESCRIPTION				
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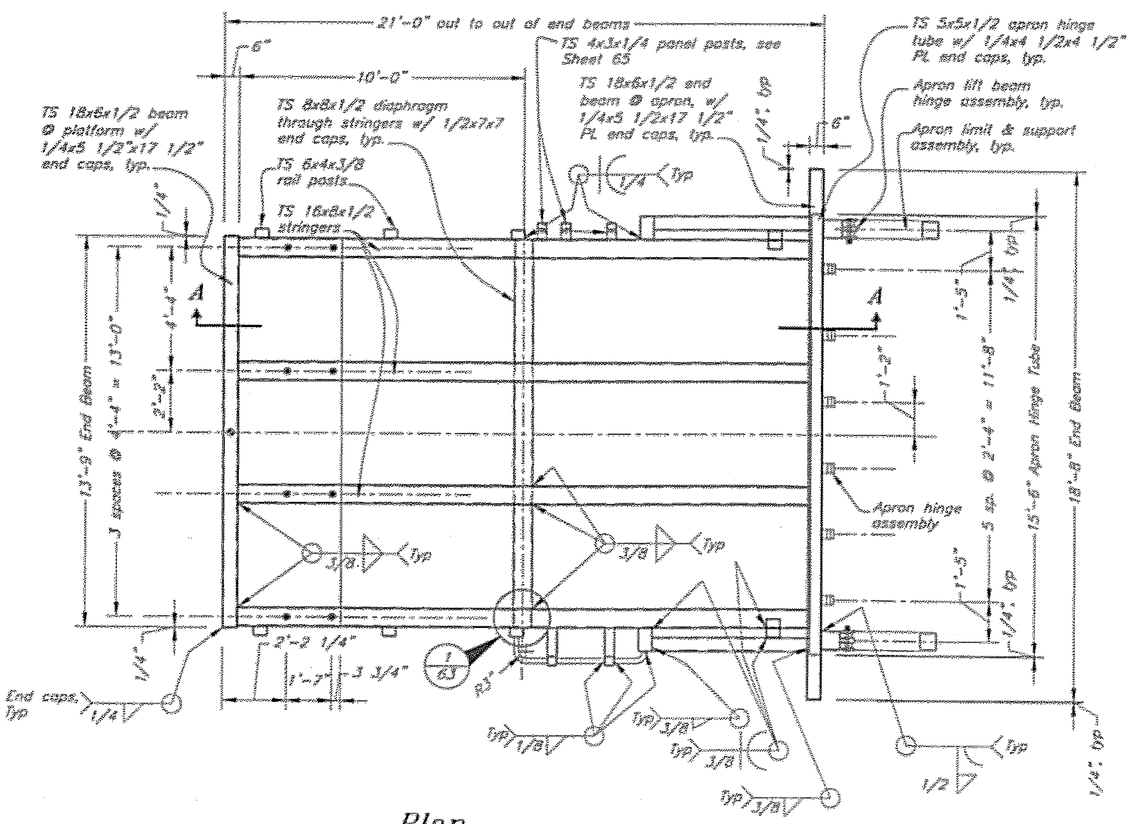
✓ 2/07



Section A–A
Intermediate Ramp

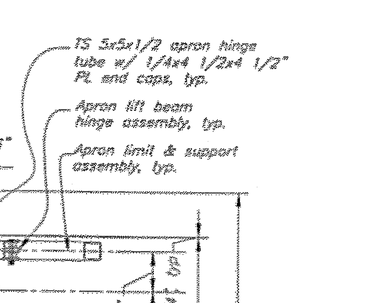


Elevation (end view)
Intermediate Ramp

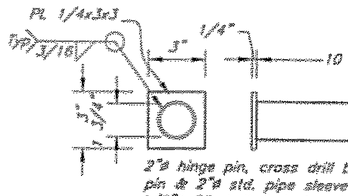


Plan
Intermediate Ramp

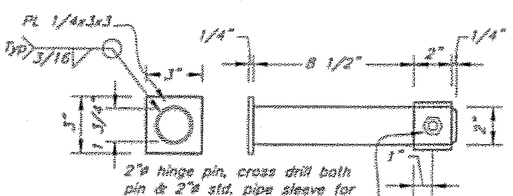
NOTE: All grating, wheel guards, rails, posts, transition PL's & framing shall be hot-dip galvanized after fabrication.



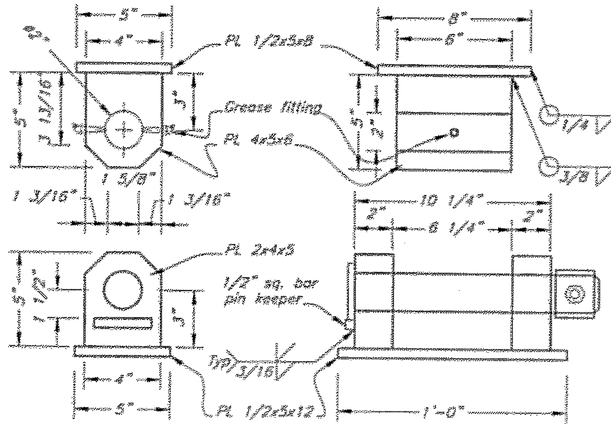
Detail
Diaphram End



Detail Ramp
Hinge Pin

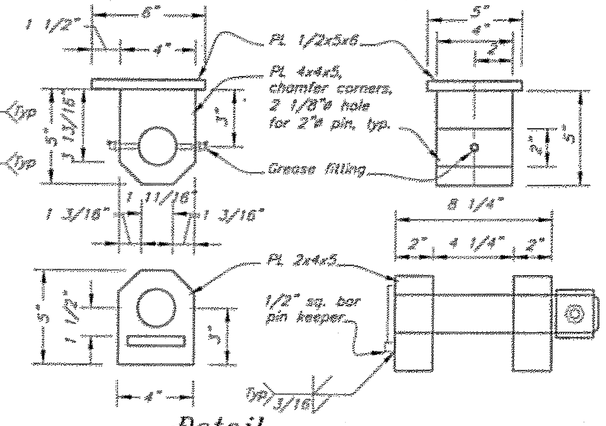


Detail
Apron Hinge Pin



Detail Ramp
Hinge

Note: Center hinge blocks shall be cross drilled and threaded for grease fittings to center 2 1/8"ø hole & shall have a 1/8" deep grease groove along the inside circumference aligned with fittings, typ.



Detail
Apron Hinge

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

DESIGNED BY: J. Scott
DRAWN BY: B. Nelson, T. Mores
CHECKED BY: J. Scott

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
S.E. REGION DESIGN & ENGINEERING SERVICES DIVISION

John I. Scott CE-4765 — 49th State — Registered Engineer

3/05

Coffman Cove Ferry Terminal
Project 67844

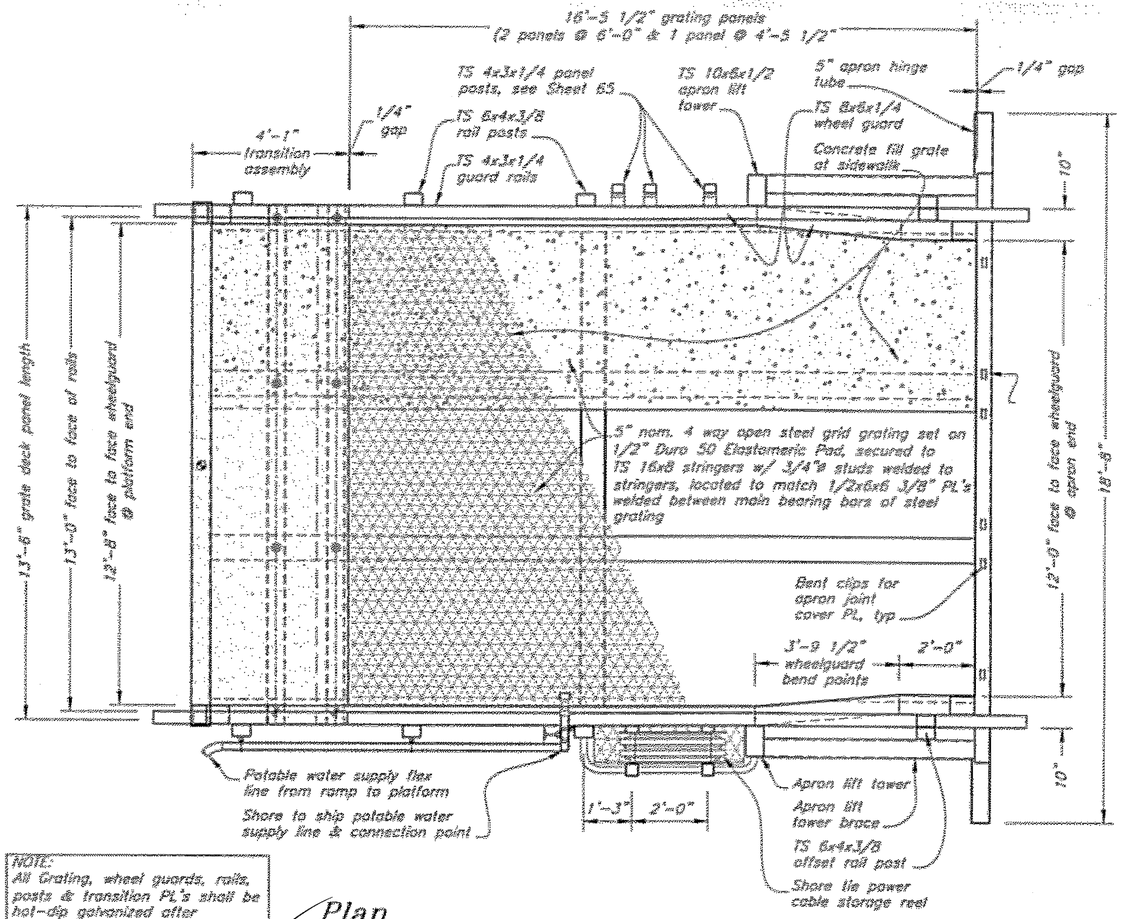
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NO	DATE	REVISIONS DESCRIPTION

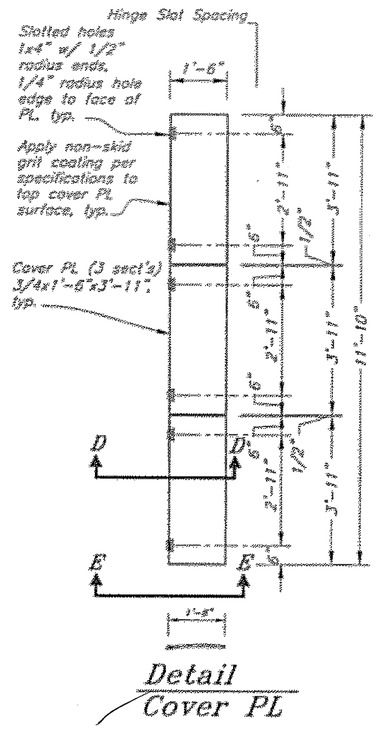
PROJECT DESIGNATION	YEAR	SHEET NO	TOTAL SHEETS
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✓ MD 2/07

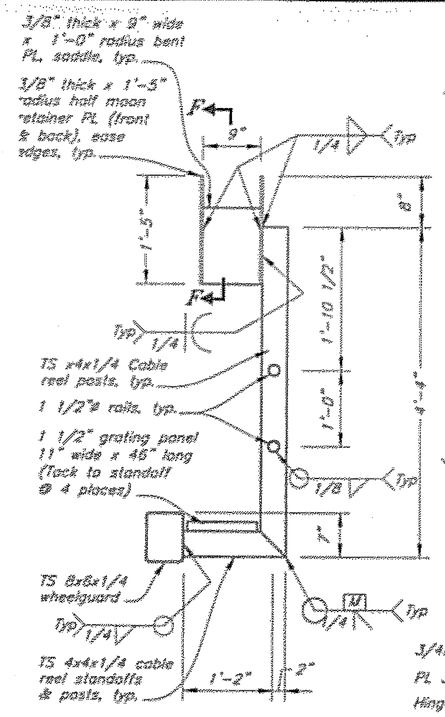


NOTE:
All Grating, wheel guards, rails, posts & transition PL's shall be hot-dip galvanized after fabrication.

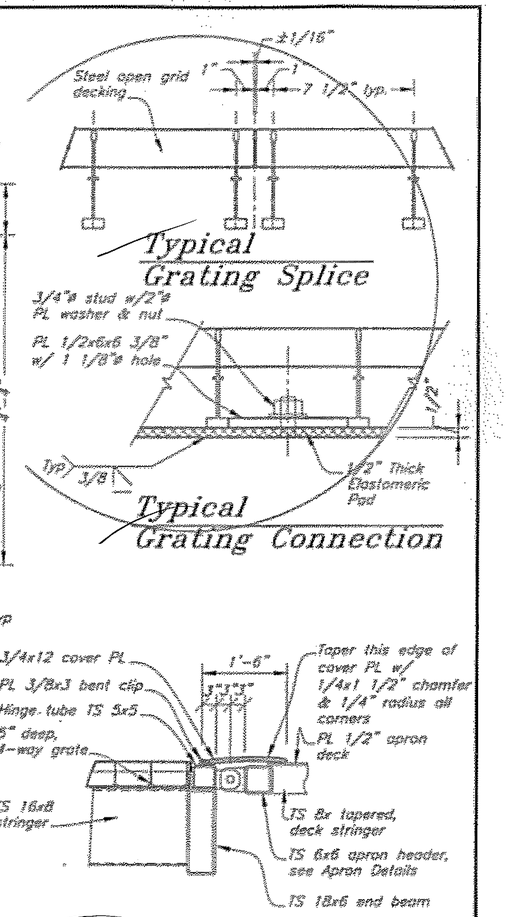
Plan
Decking, Ramp Rail & Wheel Guard



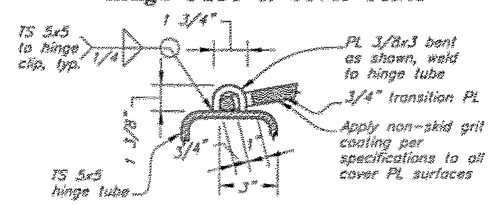
Detail
Cover PL



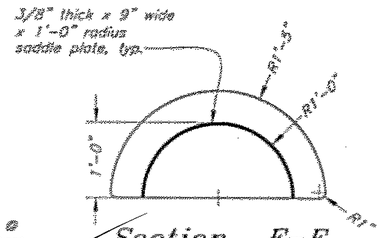
Side Elevation
Cable Storage Reel



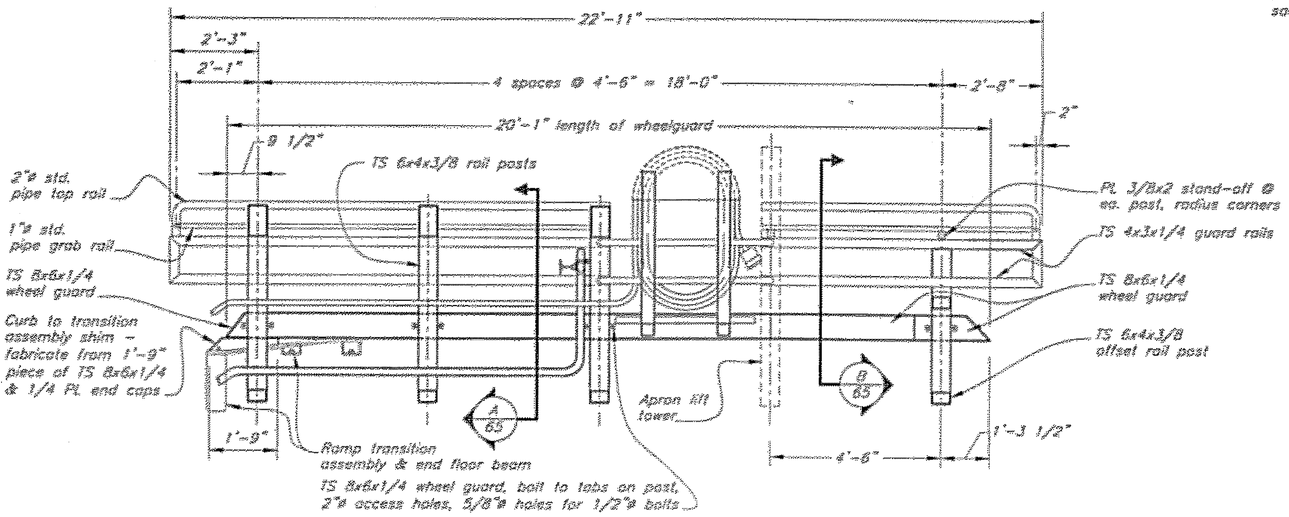
Section E–E
Hinge Tube & Cover Plate



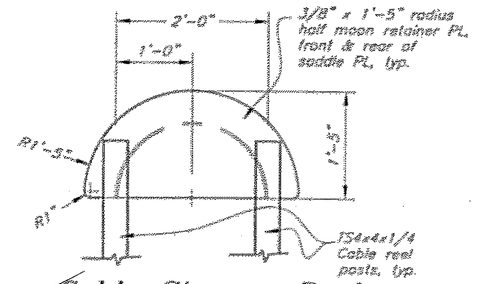
Section D–D
Cover Plate Hinge Clip



Section F–F



Elevation
Ramp Rail & Wheel Guard
(seaward side, shoreward side similar & op. hand)



Cable Storage Reel,
Rear Elevation

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

DESIGNED BY: B. Nelson
DRAWN BY: B. Nelson, T. Mores
CHECKED BY: J. Scott
CE-4715
3-10-05

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
S.E. REGION DESIGN & ENGINEERING SERVICES DIVISION

Coffman Cove Ferry Terminal
Project 67844

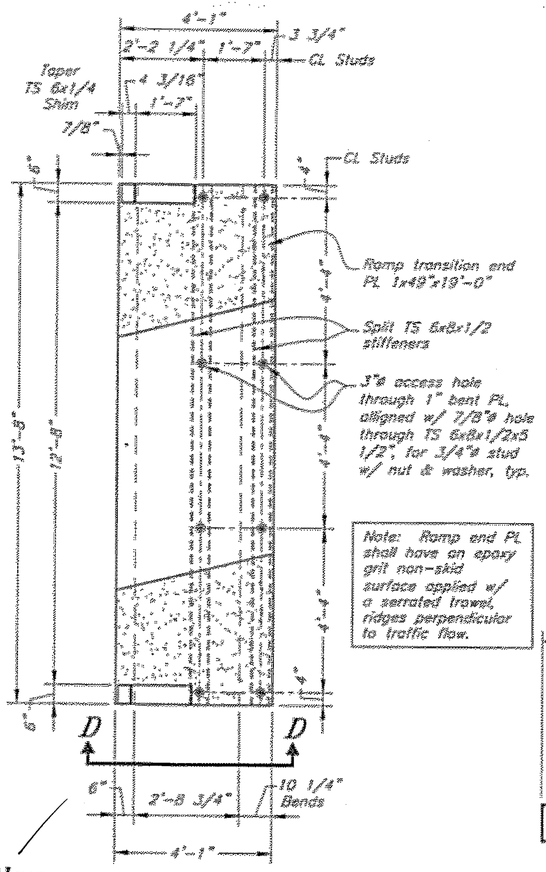
Ramp Details 2

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FRI, 18/Feb/05 08:43AM

NO.	DATE	REVISIONS DESCRIPTION

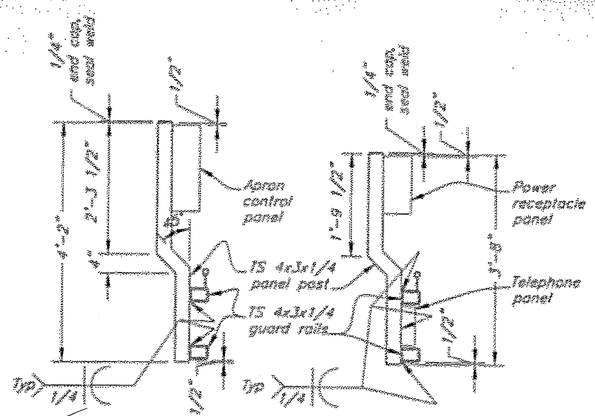
PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
67844	2005	64	99

✓ 93 2/07



Plan
Ramp Transition End PL

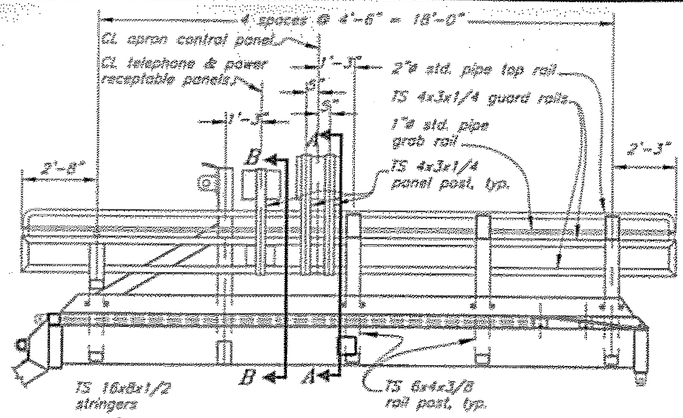
Note: Ramp end PL shall have an epoxy grit non-skid surface applied w/ a serrated trowel, ridges perpendicular to traffic flow.



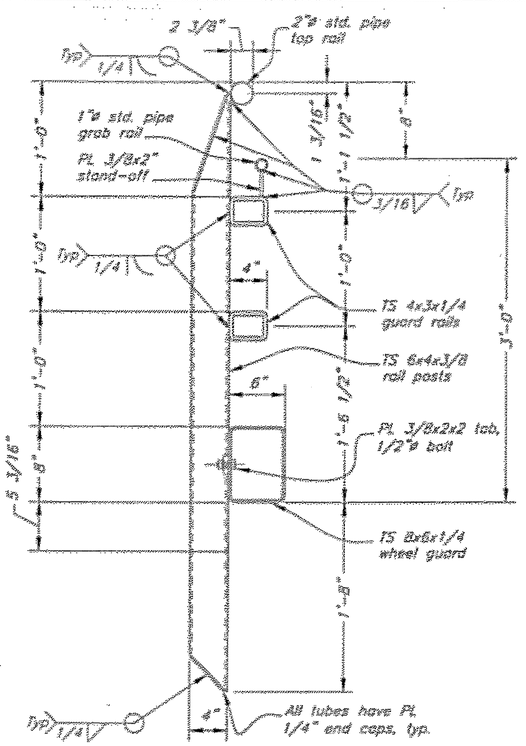
Section A-A

Section B-B

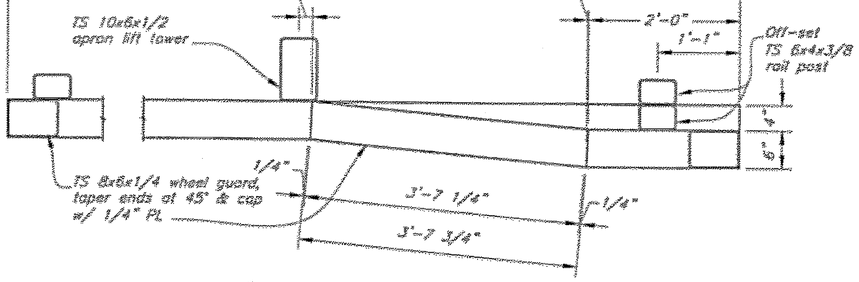
Note: See electrical drawings for panel box dimensions, attachments, & conductors



Elevation
Intermediate Ramp (North Side)

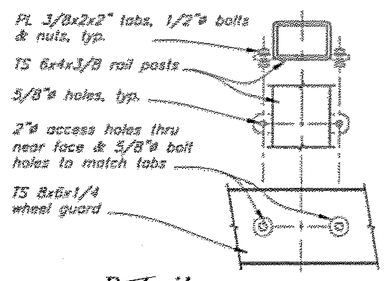


Section A/64

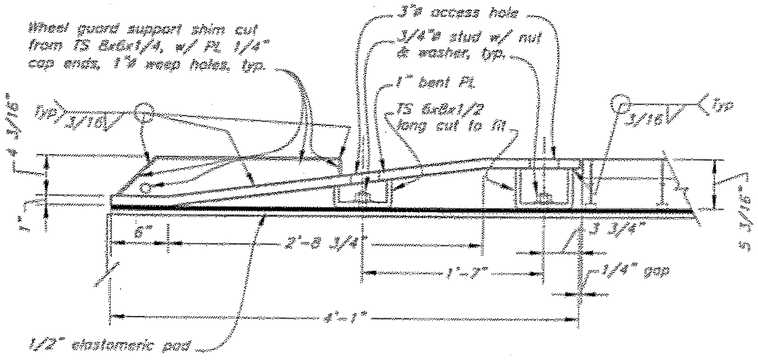


Detail
Wheel Guard Offset

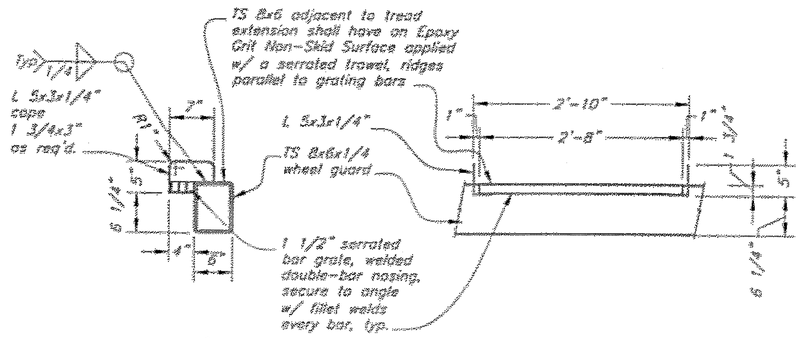
Section B/64



Detail
Wheel Guard Bolt



View D-D
Ramp Transistion End PL



Detail
Access Tread Extension

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

DESIGNED BY: B. Nelson
DRAWN BY: B. Nelson, T. Morris
CHECKED BY: J. Scott

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
S.E. REGION DESIGN & ENGINEERING SERVICES DIVISION

Coffman Cove Ferry Terminal
Project 67844

Ramp Transition Plate Shoreward End

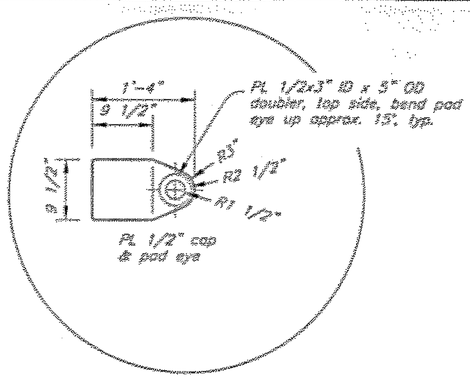
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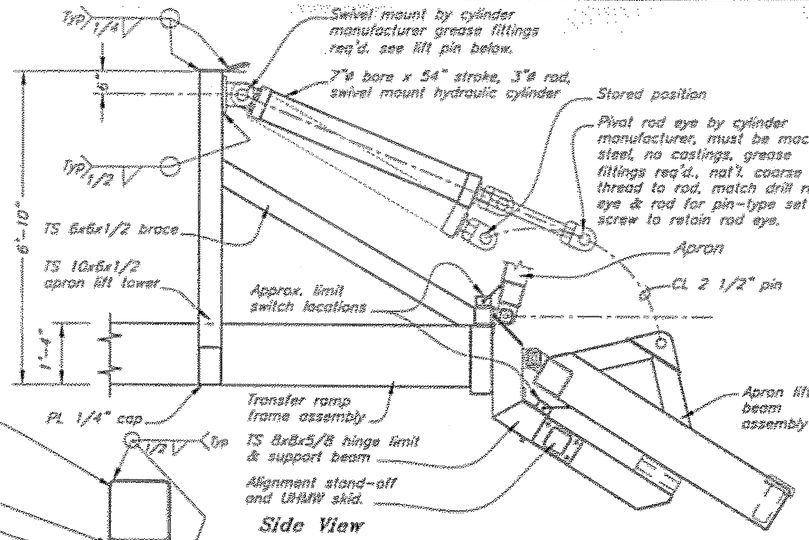
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NO	DATE	REVISIONS DESCRIPTION

PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
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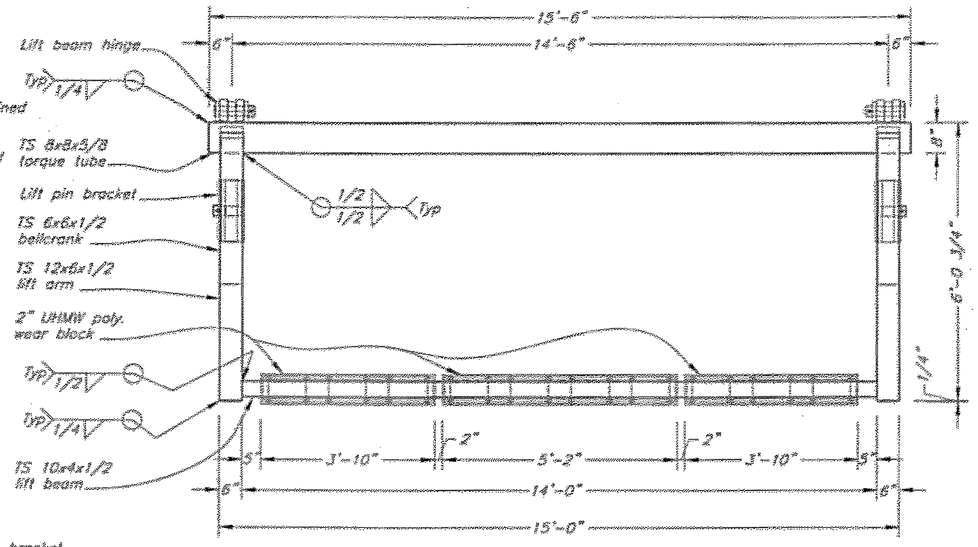
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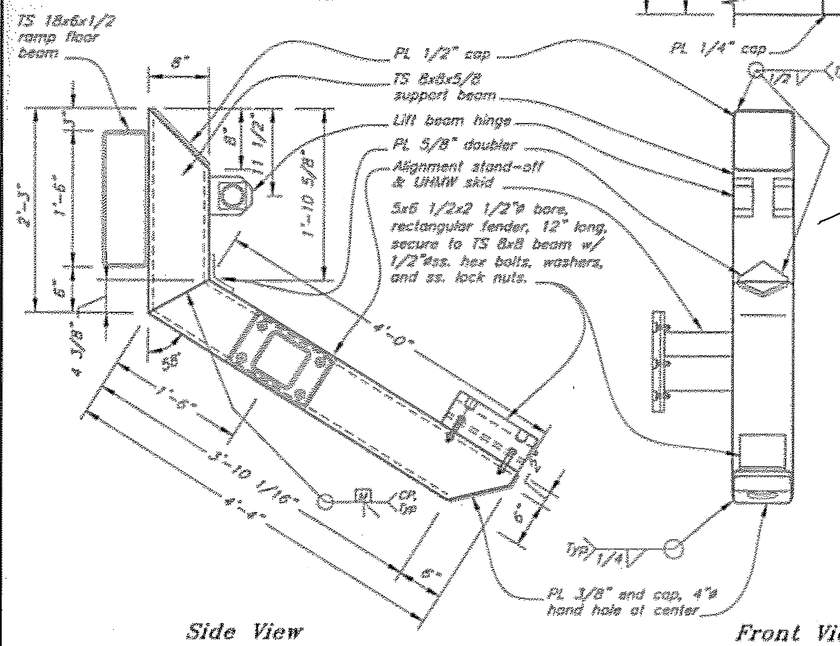




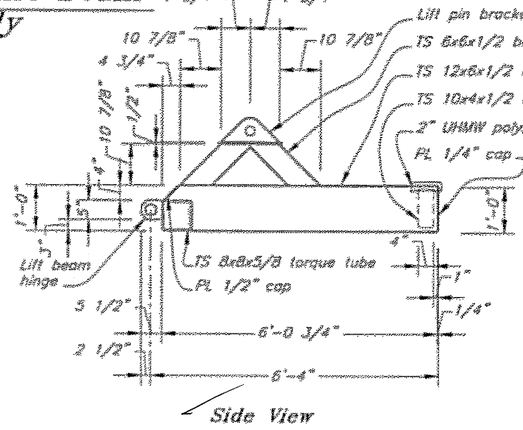
Side View

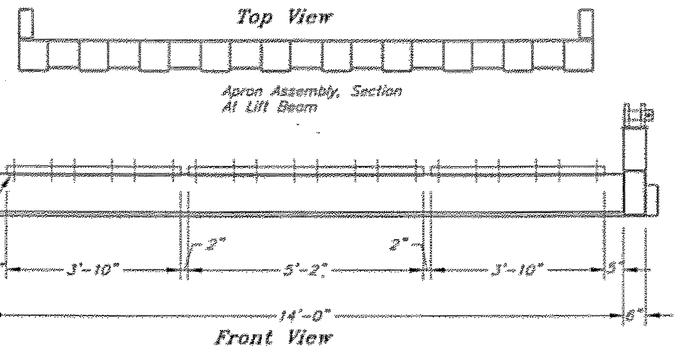
Apron Lift Beam Assembly





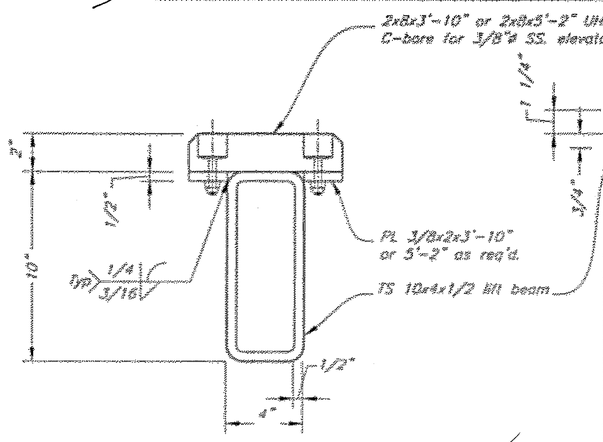
Hinge, Limit & Support Beam



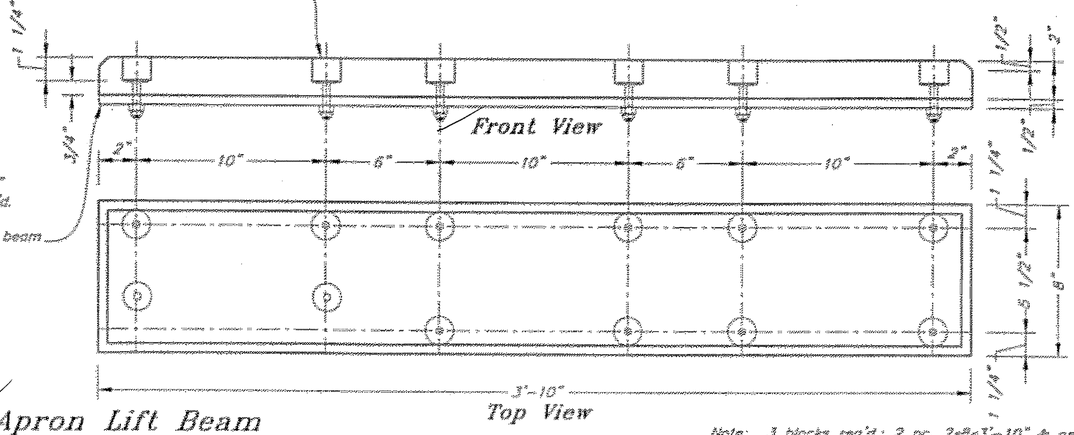


Apron Lift Beam – Framing Details

** Dimensions are based on Cunningham Model HS Hydraulic Cylinders (7"dia. bore x 54" stroke, 3"dia. rod) with swivel mount and pivot rod eye by Manufacturer. Cylinder supplied may vary and Apron Lift Tower height or swivel mount must be adjusted accordingly. No Castings Allowed For Rod Eye End or Swivel Mount Attachments.



Typical Section



Apron Lift Beam Wear Blocks

Note: 3 blocks req'd.: 2 pc. 2x8x3'-10" & one pc. 2x8x5'-2" UHMW polyethylene, bolt layouts similar.

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

DESIGNED BY: NAME
DRAWN BY: NAME
CHECKED BY: NAME

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
S.E. REGION DESIGN & ENGINEERING SERVICES DIVISION

Coffman Cove Ferry Terminal
Project 67844

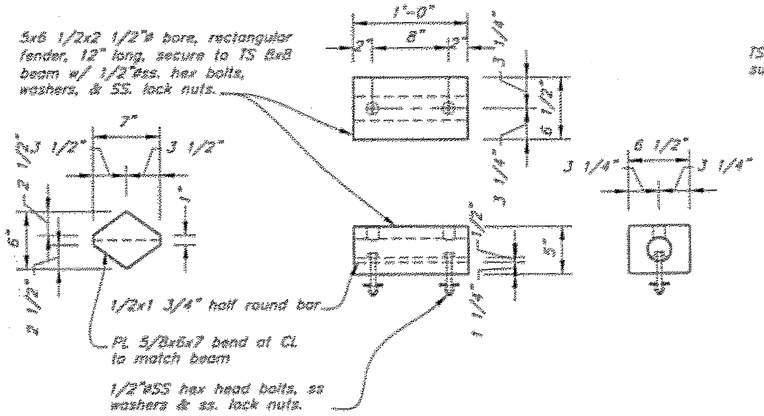
Apron Lift Details

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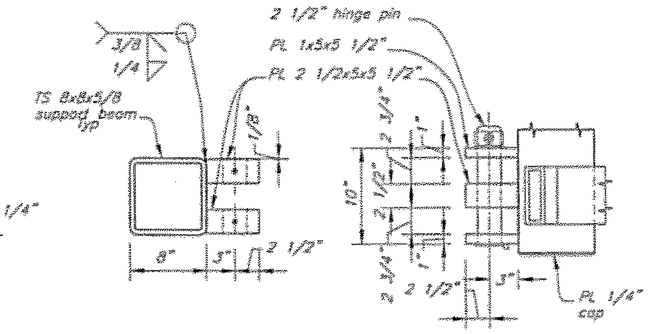
3-10-05

✓ GB 2/07

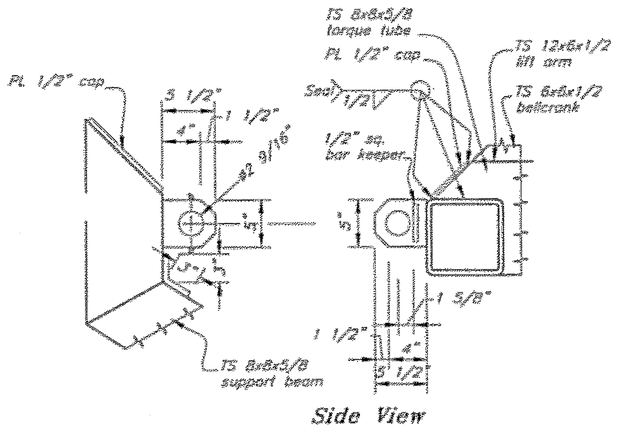


Doubler Plate Details

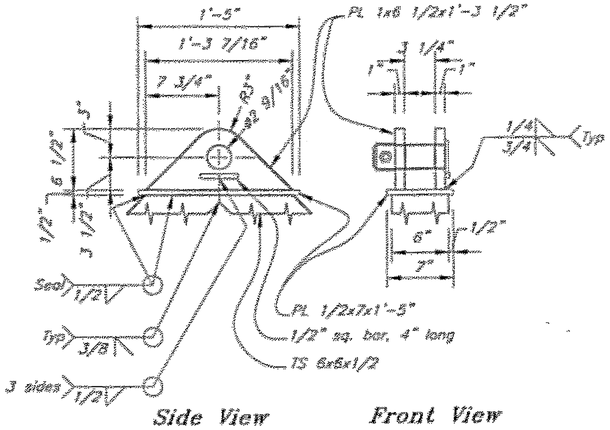
Detail
Hinge, Limit & Support Beam



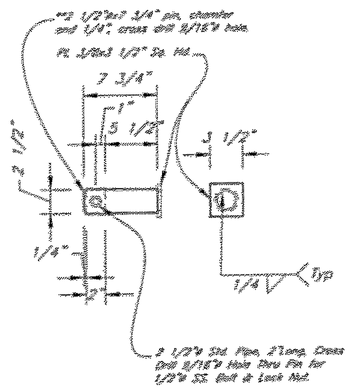
Top View



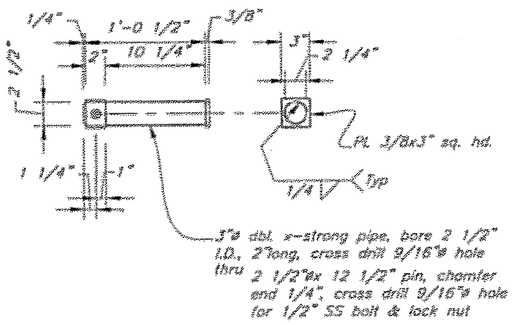
Side View



Side View **Front View**



Lift Pin – 4 req'd.



Detail
Hinge Pin

Detail
Apron Lift Beam – Hinge

Note: Center hinge blocks shall be cross drilled and threaded for grease fittings at 2" from ends, & shall have a 1/8" deep grease groove along the

NOTE: All apron lift beam & support members shall be hot-dip galvanized after fabrication.

Detail
Apron Lift Beam – Lift Pin Bracket

(One Each End of Lift Cylinder)

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

DESIGNED BY: NAME

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
& PUBLIC FACILITIES
S.E. REGION DESIGN & ENGINEERING SERVICES DIVISION

STATE OF ALASKA — 49th — Jon L. Scott — 12-4755 — REGISTERED ENGINEER — 3-10-05

CHECKED BY: NAME
DRAWN BY: F. Morse

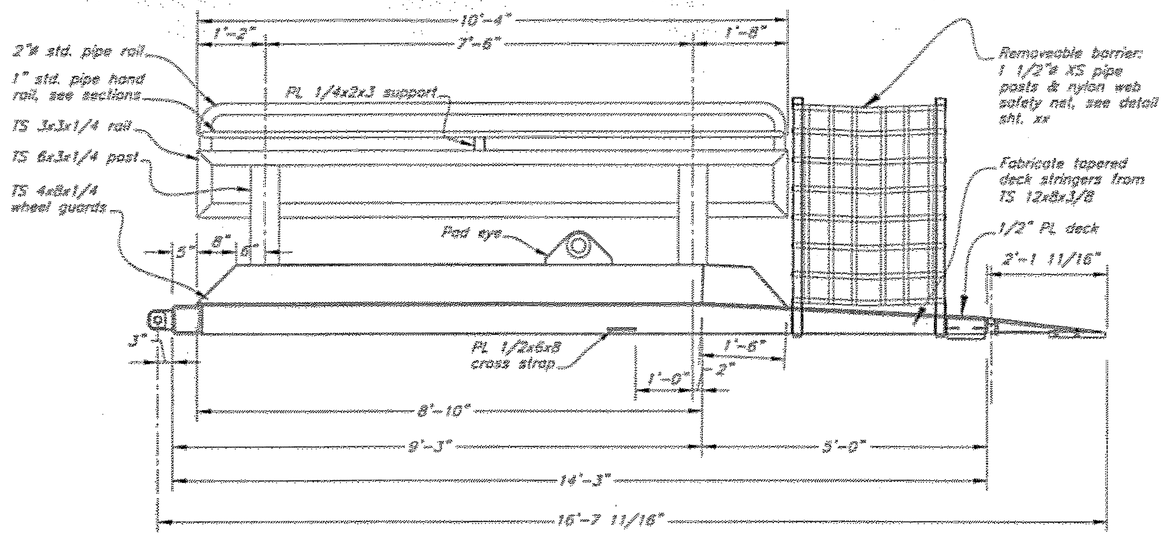
Coffman Cove Ferry Terminal
Project 67844

Apron Lift Details 2

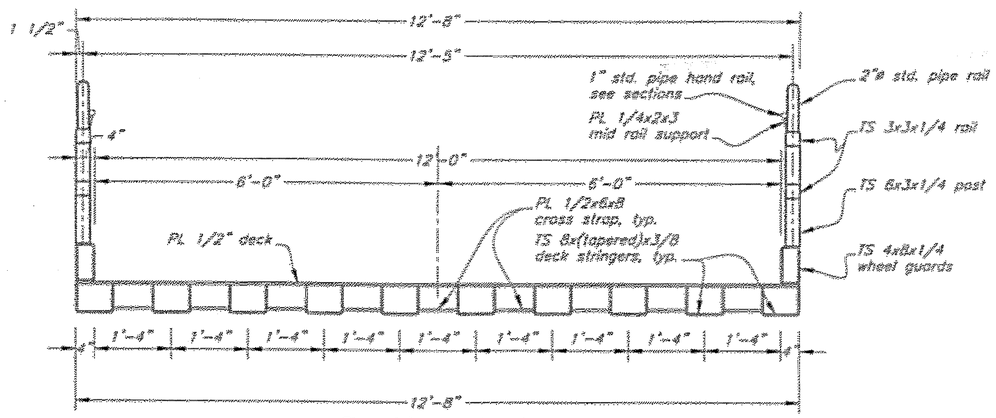
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REVISIONS NO	DATE	DESCRIPTION	PROJECT DESIGNATION	YEAR	SHEET NO	TOTAL SHEETS
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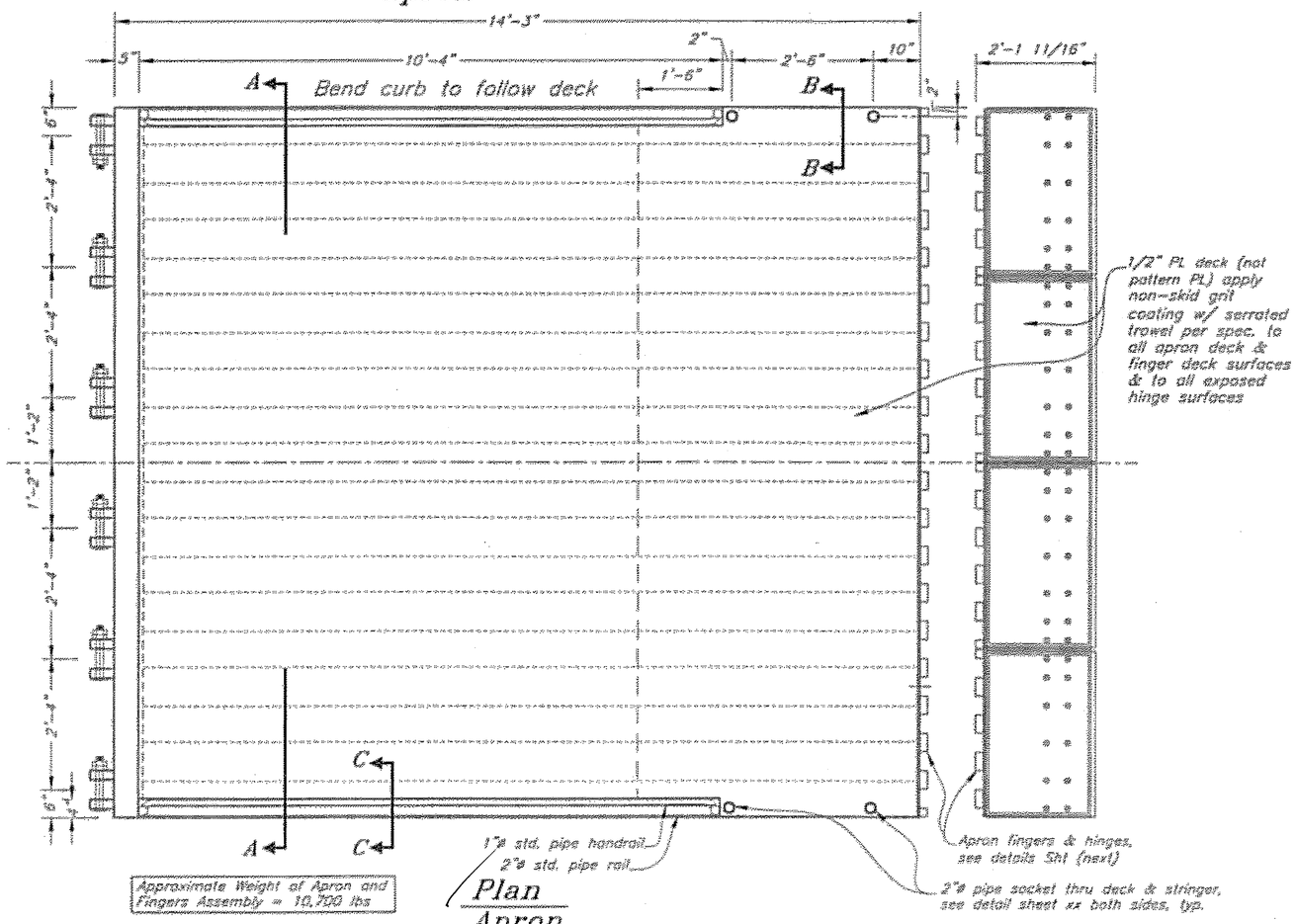
✓ JMS 2/07



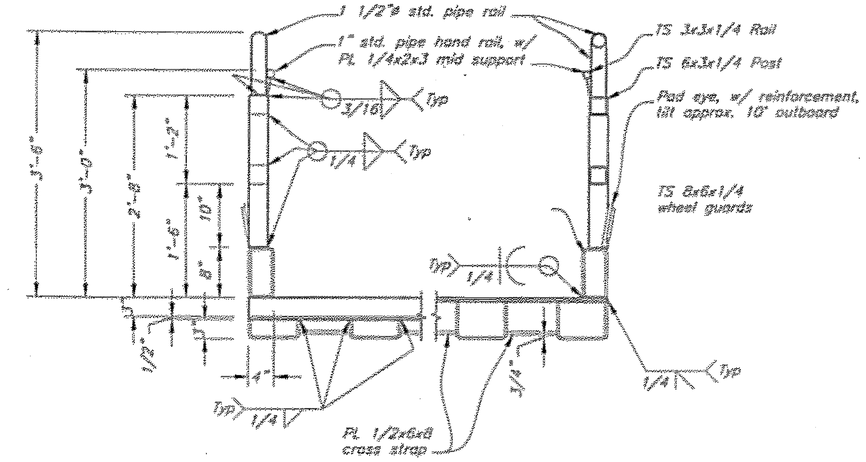
Sectional Elevation Apron



Section A-A

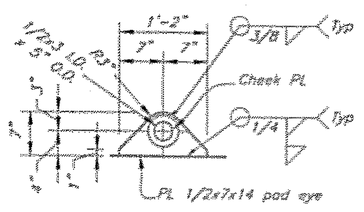


Plan Apron



Section B-B

Section C-C



Detail Pad Eye

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

DESIGNED BY: B Nelson
CHECKED BY: K. Miller
DRAWN BY: B Nelson, T. Myers
PATH: d:\Pw\E\Proj\Ket\Planset\68 Apron Details.dwg
PLOT: PSPACE 1=1
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STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
S.E. REGION DESIGN & ENGINEERING SERVICES DIVISION

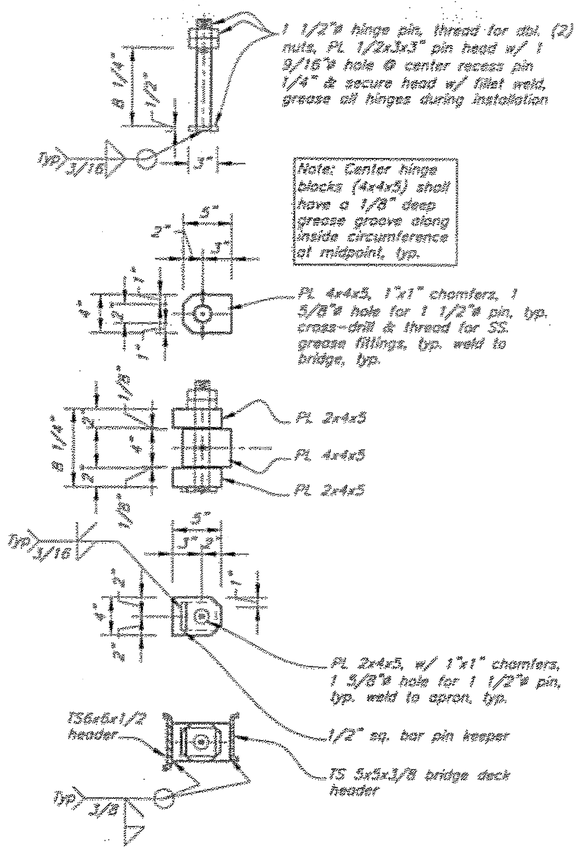
Coffman Cove Ferry Terminal
Project 67844

Apron Details

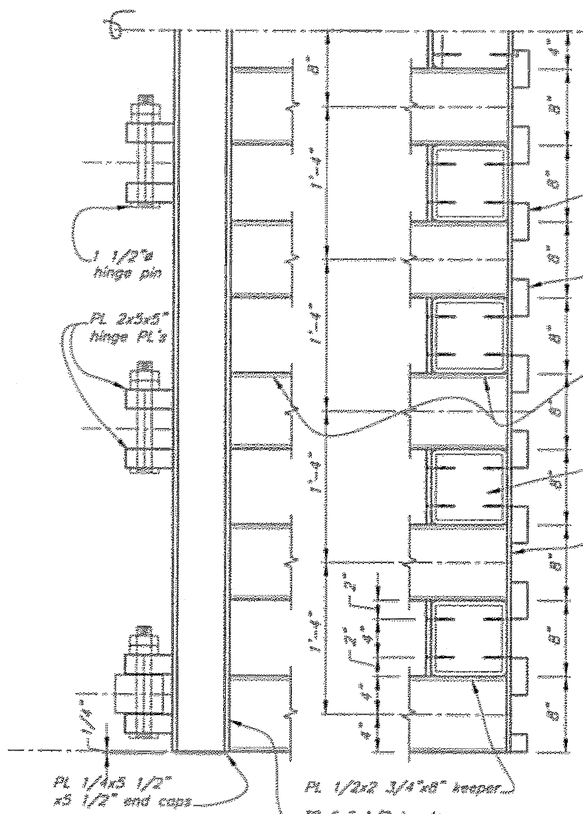
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PROJECT DESIGNATION	YEAR	SHEET NO	TOTAL SHEETS
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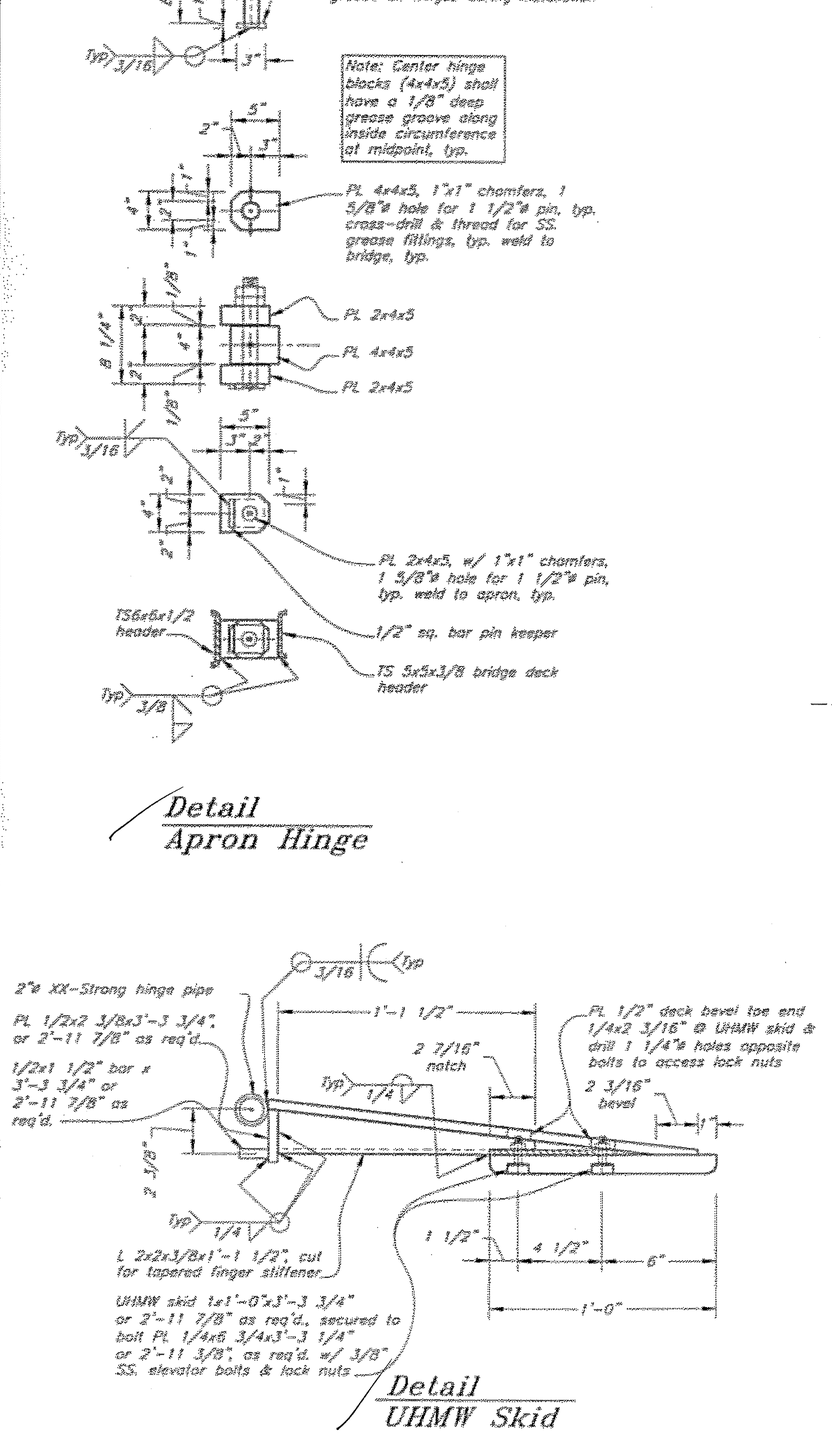
2/07



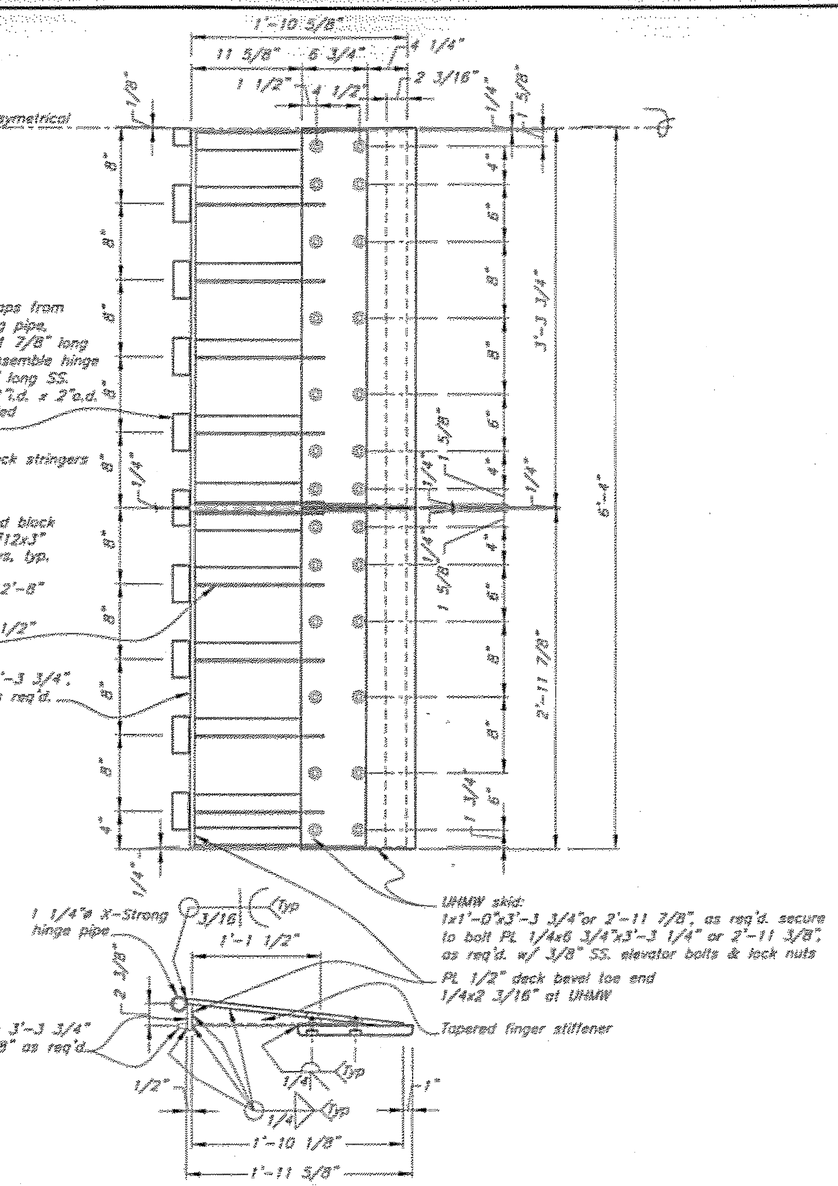
Detail Apron Hinge



Apron Details



Detail UHMW Skid



Finger Details

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

DESIGNED BY: B. Nelson
DRAWN BY: B. Nelson, T. Morse
CHECKER BY: K. Miller
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Pl. 25/Feb/05 12:22PM

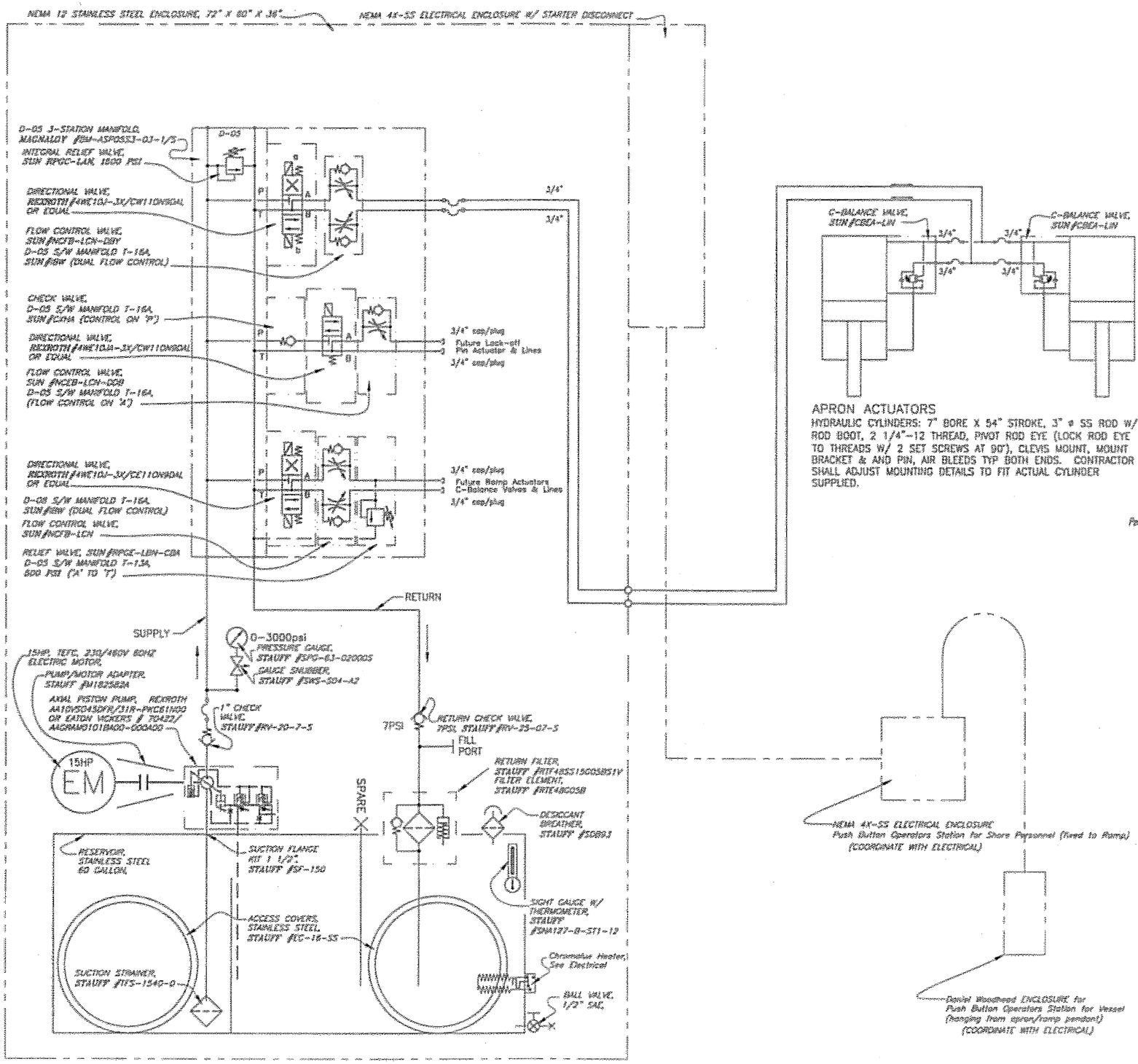
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
S.E. REGION DESIGN & ENGINEERING SERVICES DIVISION

Coffman Cove Ferry Terminal
Project 67844

Apron Details 2

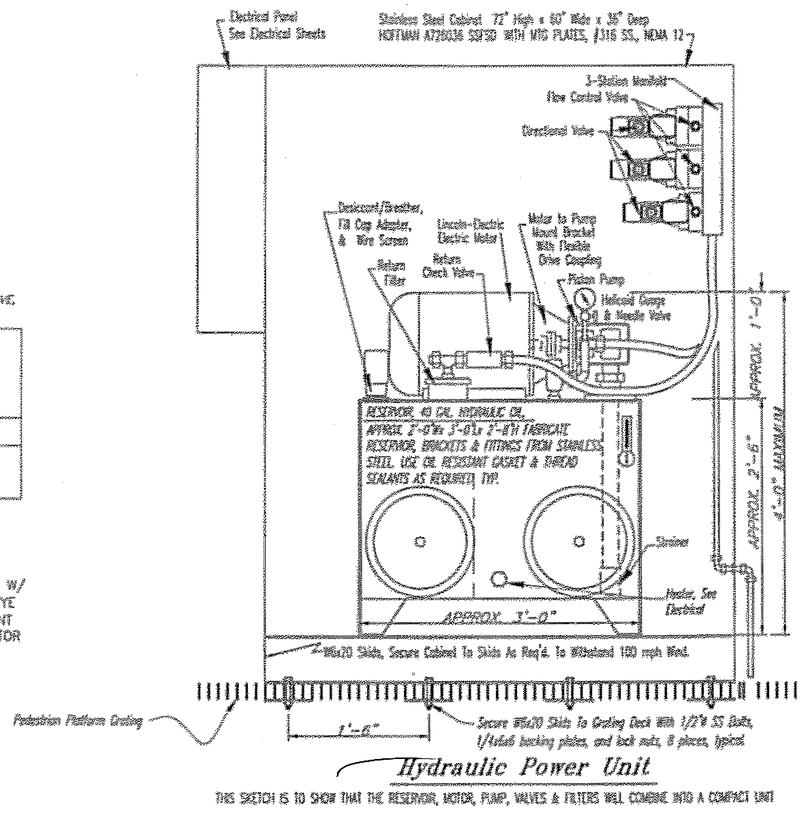
REVISIONS NO	DATE	DESCRIPTION	PROJECT DESIGNATION	YEAR	SHEET NO	TOTAL SHEETS
			67844	2005	69	99

2/07



APRON ACTUATORS

HYDRAULIC CYLINDERS: 7" BORE X 54" STROKE, 3" ø SS ROD W/ ROD BOOT, 2 1/4"-12 THREAD, PIVOT ROD EYE (LOCK ROD EYE TO THREADS W/ 2 SET SCREWS AT 90°), CLEVIS MOUNT, MOUNT BRACKET & AND PIN, AIR BLEEDS TYP BOTH ENDS. CONTRACTOR SHALL ADJUST MOUNTING DETAILS TO FIT ACTUAL CYLINDER SUPPLIED.



Hydraulic Power Unit

THIS SKETCH IS TO SHOW THAT THE RESERVOIR, MOTOR, PUMP, VALVES & FILTERS WILL COMBINE INTO A COMPACT UNIT

GENERAL NOTES

1. MAXIMUM WORKING PRESSURE OF APRON HYDRAULIC SYSTEM IS 3000 PSIG. MAXIMUM WORKING PRESSURE OF RETURN PIPING IS 250 PSIG.
2. TUBING TO BE A269 SEAMLESS 304SS/316SS.
3. AFTER COMPLETION OF PIPE/TUBE INSTALLATION, COMPLETE SYSTEM TO BE FLUSHED UNTIL AN ISO 18/14/11 IS ACHIEVED. REPLACE FILTER ELEMENTS UPON COMPLETION OF FLUSHING.
4. ALL PRESSURE HOSE ASSEMBLIES TO BE RATED AT 3000PSI. JIC SWIVEL FITTINGS OR 4-BOLT FLANGE HOSE ENDS WILL BE USED ON ALL HOSE ASSEMBLIES.
5. HYDRAULIC FLUID: CHEVRON "RYKON" ISO-32
6. ALL PIVOT MOUNTS AND PIVOT ROD EYES SHALL HAVE SS. GREASE FITTINGS TOP & BOTTOM. ALL PINS SHALL BE GREASED DURING ASSEMBLY.
7. COORDINATE WITH ELECTRICAL

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

DESIGNED BY: B. Nelson
DRAWN BY: B. Nelson
CHECKED BY: J. Beedle

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
S.E. REGION DESIGN & ENGINEERING SERVICES DIVISION

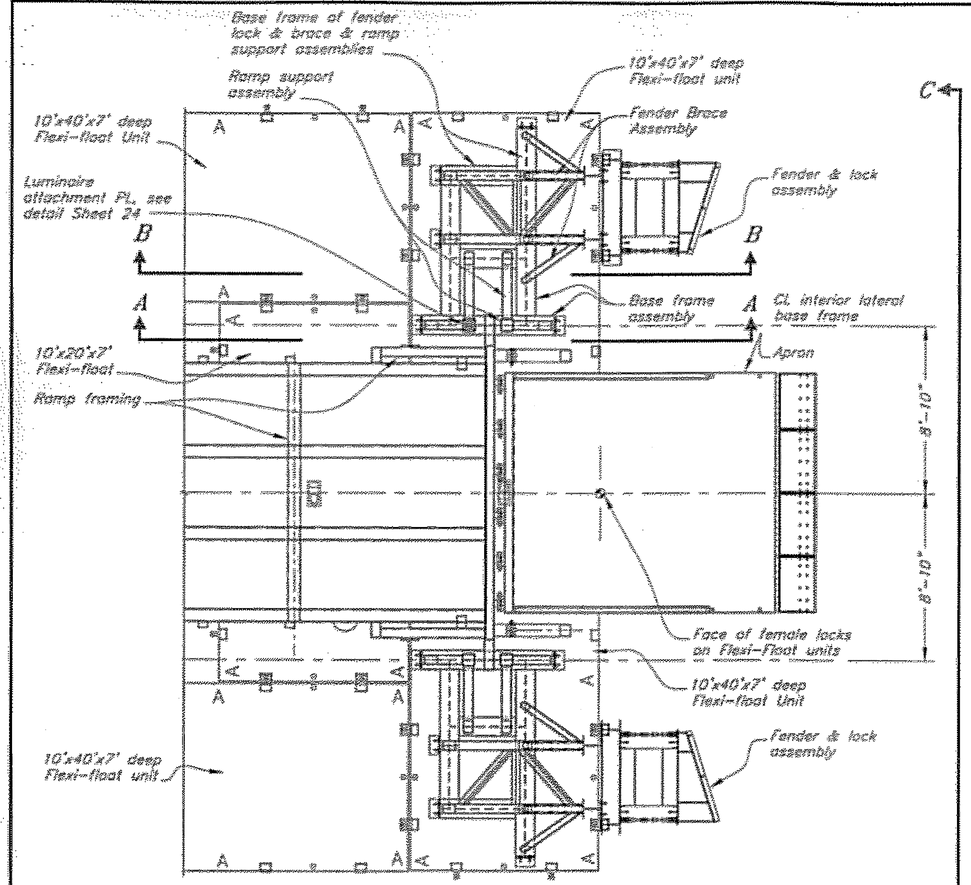
Coffman Cove Ferry Terminal
Project 67844

Hydraulic Power Unit

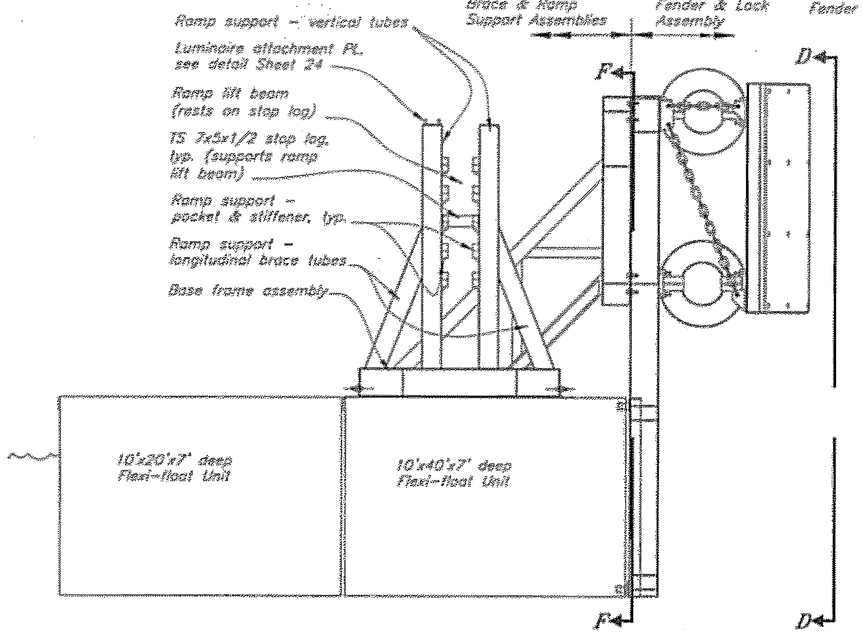
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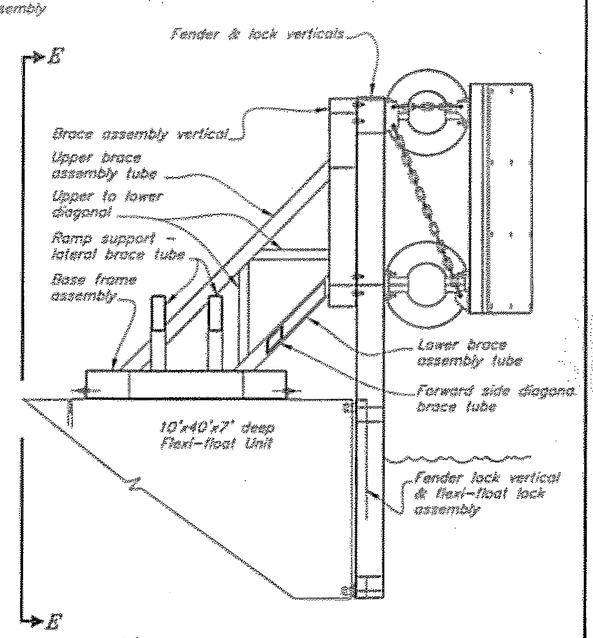
✓ gb 2/07



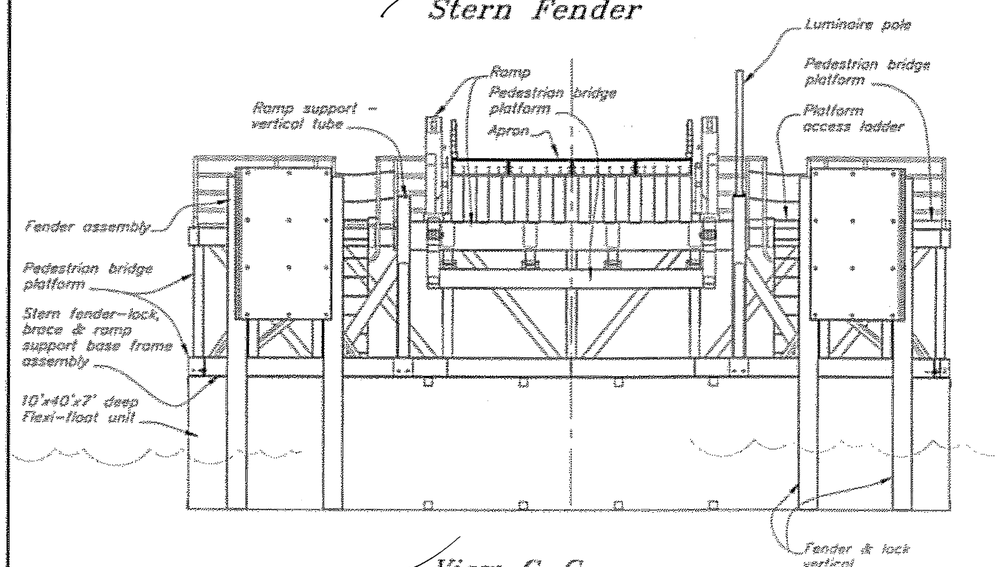
Layout
Stern Fender



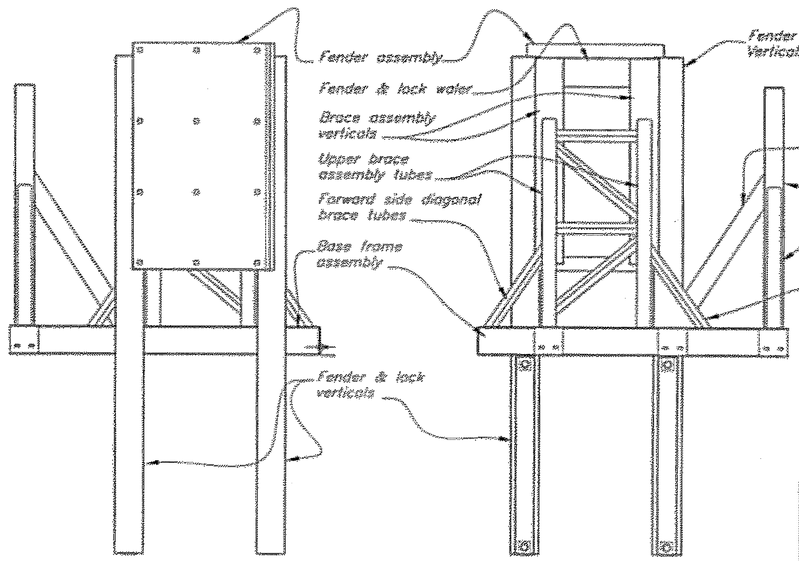
Section Elevation A–A
Fender–Lock & Brace Assembly
(looking from ramp toward shore w/ fender-lock assembly)



Section Elevation B–B
Brace Assembly
(looking from ramp toward shore w/ fender-lock assembly)

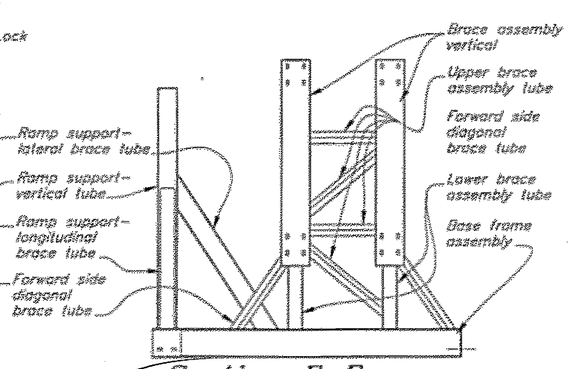


View C–C



View D–D
Fender Assembly
(looking toward barge w/ fender-lock assembly)

View E–E
Fender–Lock & Brace Assembly
(looking toward boat w/ fender-lock assembly)



Section F–F
Brace Assembly
(looking toward barge w/out fender-lock assembly)

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

DESIGNED BY: J. Scott

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
S.E. REGION DESIGN & ENGINEERING SERVICES DIVISION

STATE OF ALASKA · 7491 · John T. Scott · EX-4758 · REGISTERED ENGINEER

3-10-05

CHECKED BY: B. Sawinko

DRAWN BY: J. Scott, T. Mores

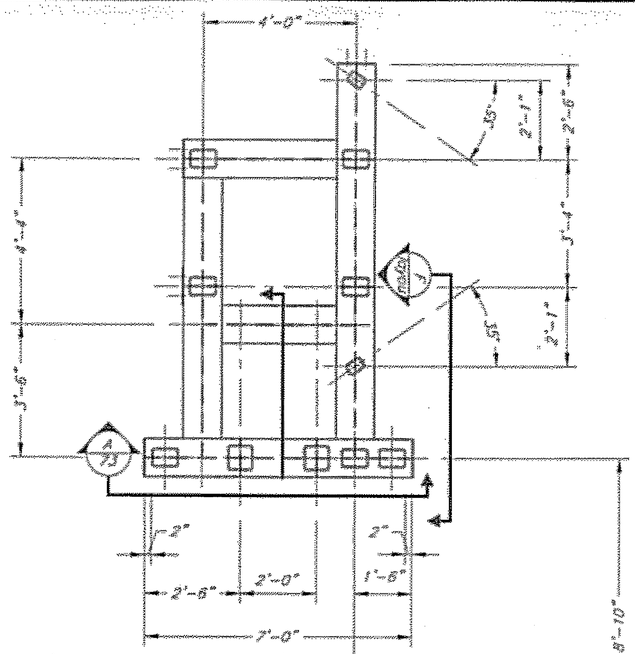
PATH: G:\Pw\67844\MP\Planset\71 STERN FENDER & RAMP SUPPORT LAYOUT.DWG

PLOT: PSPACE 1=1 — Fri, 18/Feb/05 11:20AM

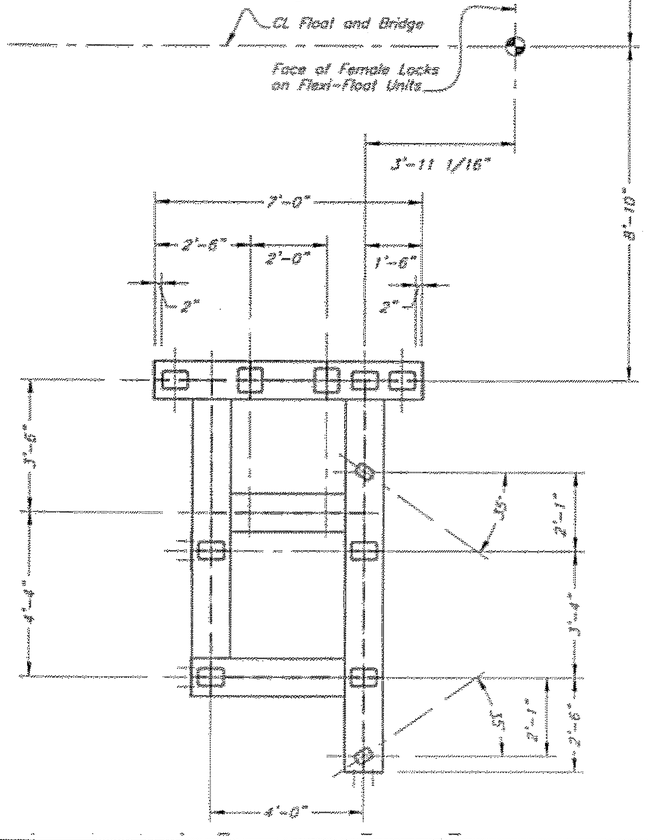
Coffman Cove Ferry Terminal
Project 67844
Stern Fender & Ramp Support Layout & Base Frames

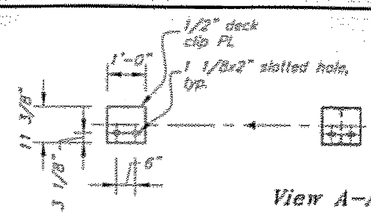
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JGM 2/07

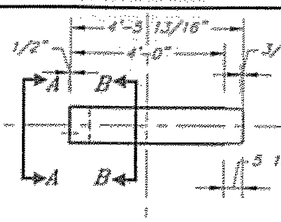


Layout
Fender Lock & Brace Frame Base Assembly

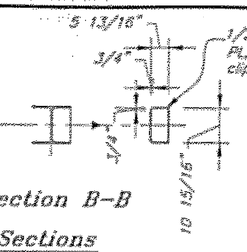


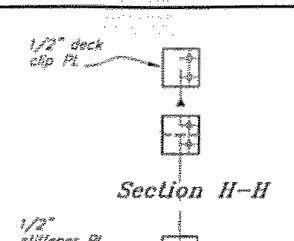


View A-A



Section B-B

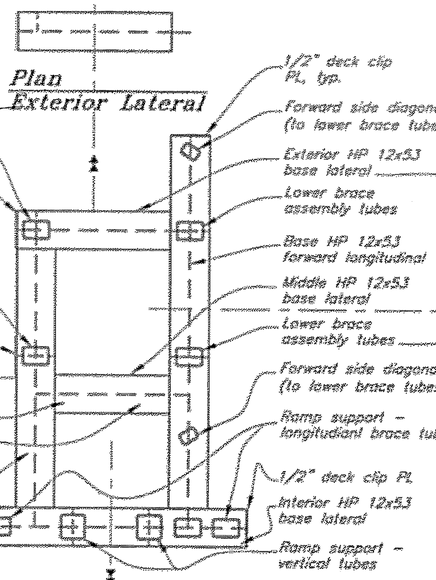




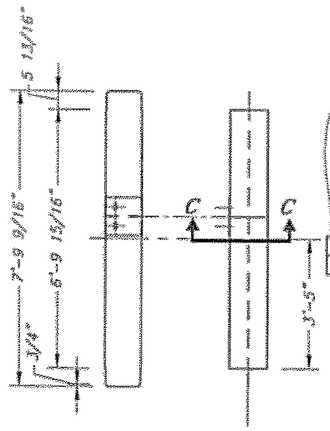
Notes for welds not shown:

- Tube to flange, use 3/8" fillet all around
- Tube to tube, use 3/8" fillet all around
- Flange to flange, use partial pen. 3/8" groove weld
- For welds @ lock and lock cover PL's see similar weld detail callout on Shts. 45-54
- Unless shown otherwise, all other welds shall be 1/4" fillets each side or all around as req'd

Elevation & Exploded Sections Exterior Lateral

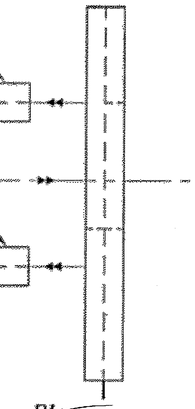


Plan Exterior Lateral

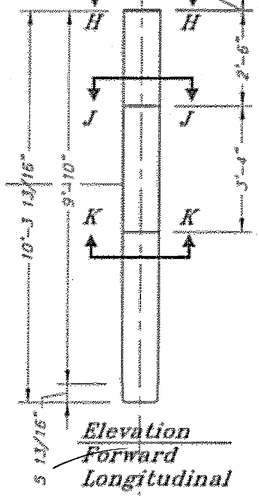


Elevation & Plan Rear Longitudinal

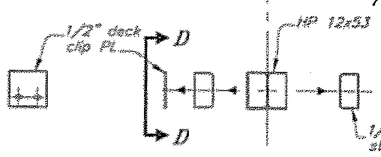
Plan (exploded views surrounding) Fender-Lock Brace Ramp Support Base Assembly



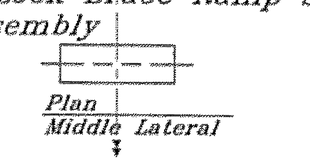
Plan Forward Longitudinal



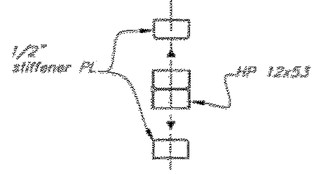
Elevation Forward Longitudinal



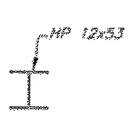
Section D-D Section C-C



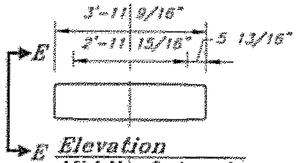
Plan Middle Lateral



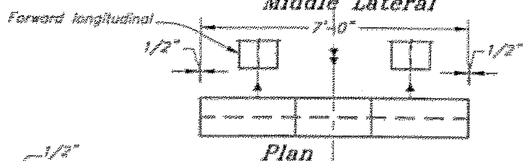
Section K-K



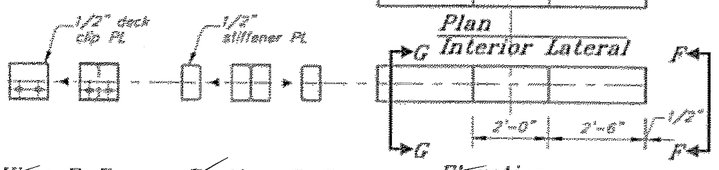
Section E-E



Elevation Middle Lateral



Plan Interior Lateral



View F-F Section G-G Elevation Interior Lateral

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

DESIGNED BY: J. Scott
DRAWN BY: J. Scott, T. Mores
CHECKED BY: NAME
PATH: G:\Fw\67844\MF\Plansets\72 Fender Brace Frame Details 1.dwg
PLOT: PSPACE 1=1
Th, 10/Feb/05 11:29AM

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
S.E. REGION DESIGN & ENGINEERING SERVICES DIVISION

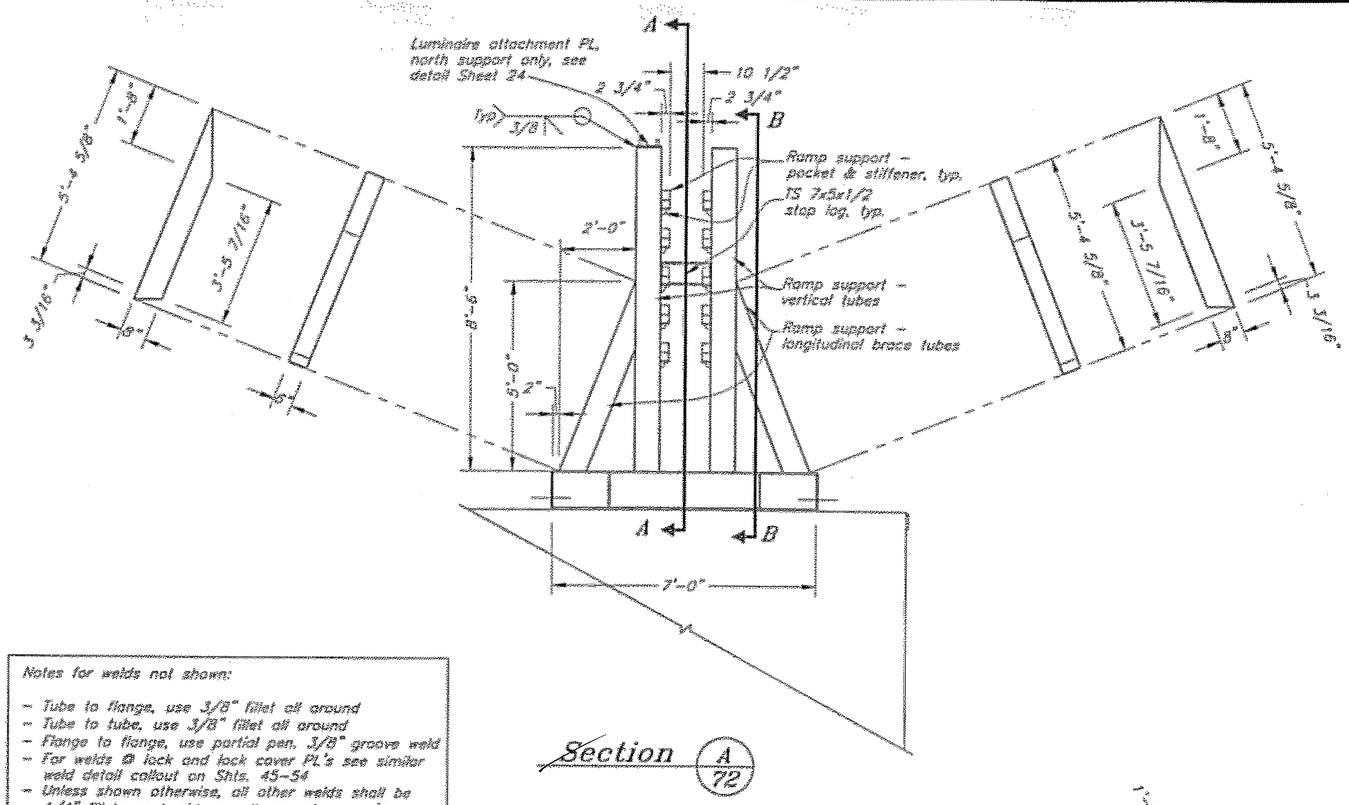
Coffman Cove Ferry Terminal
Project 67844

Stern Berth Fender Details 1

NO.	DATE	REVISIONS DESCRIPTION

PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
67844	2005	72	99

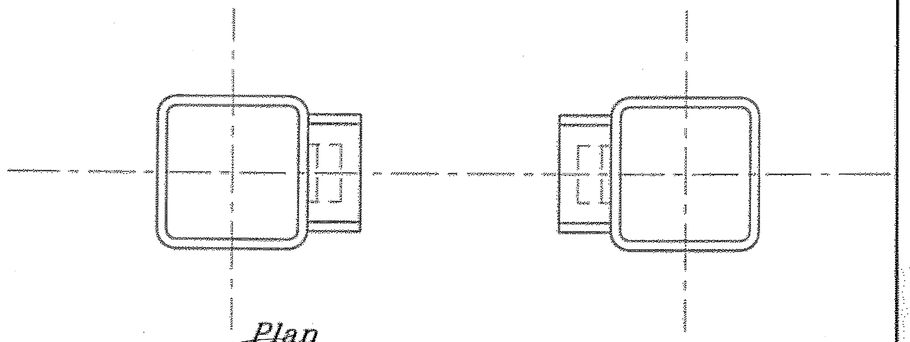
✓ 2/07



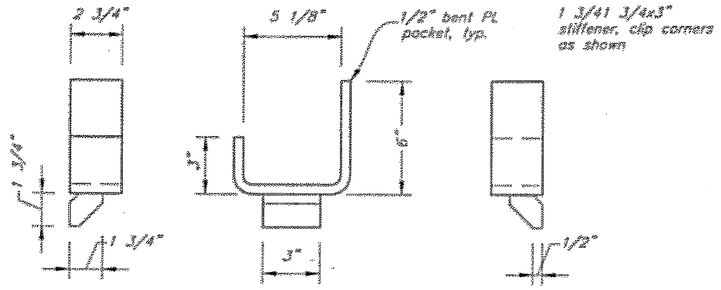
Section A/72

Notes for welds not shown:

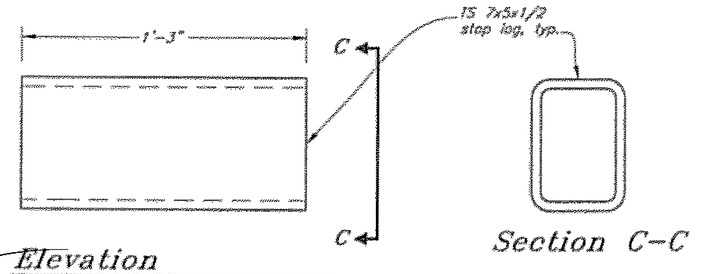
- Tube to flange, use 3/8" fillet all around
- Tube to tube, use 3/8" fillet all around
- Flange to flange, use partial pen, 3/8" groove weld
- For welds @ lock and lock cover PL's see similar weld detail callout on Shts. 45–54
- Unless shown otherwise, all other welds shall be 1/4" fillets each side or all around as req'd



Plan
Ramp Support Pocket

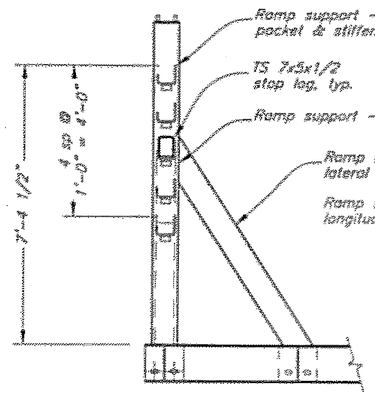


Elevation
Ramp Support Pocket

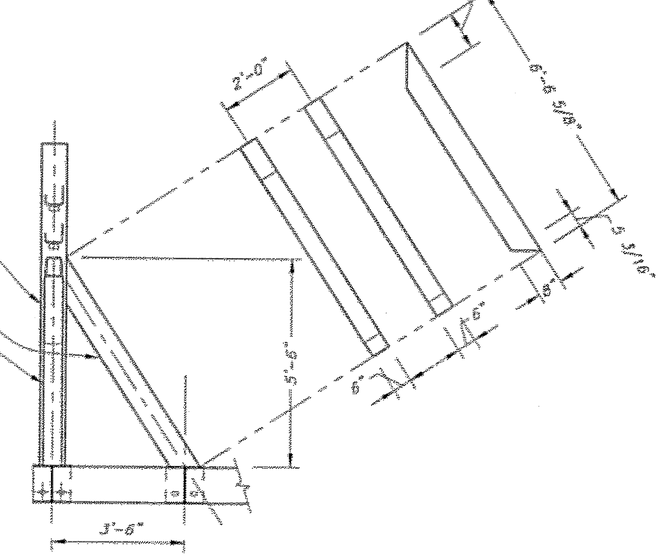


Elevation
Ramp Support Log

Section C–C



Section A–A
Ramp Support



Section B–B
Ramp Support

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

DESIGNED BY: J. Scott
DRAWN BY: Scott/Mores
CHECKED BY: R. Sowles

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
S.E. REGION DESIGN & ENGINEERING SERVICES DIVISION

Coffman Cove Ferry Terminal
Project 67844

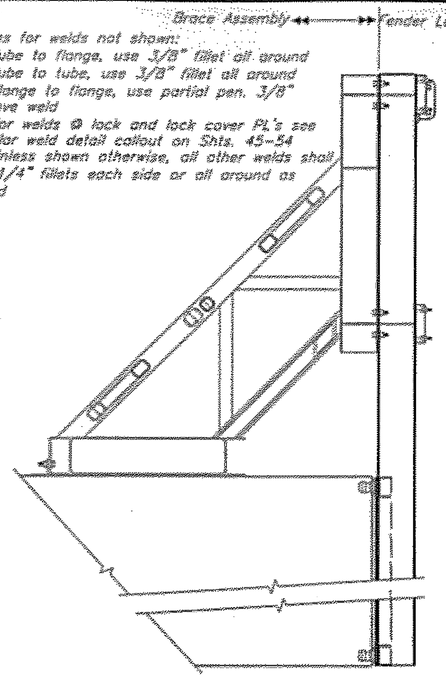
Stern Berth Fender Details 2

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PLOT: PSPACE 1=1
Wed, 23/Feb/05 01:49PM

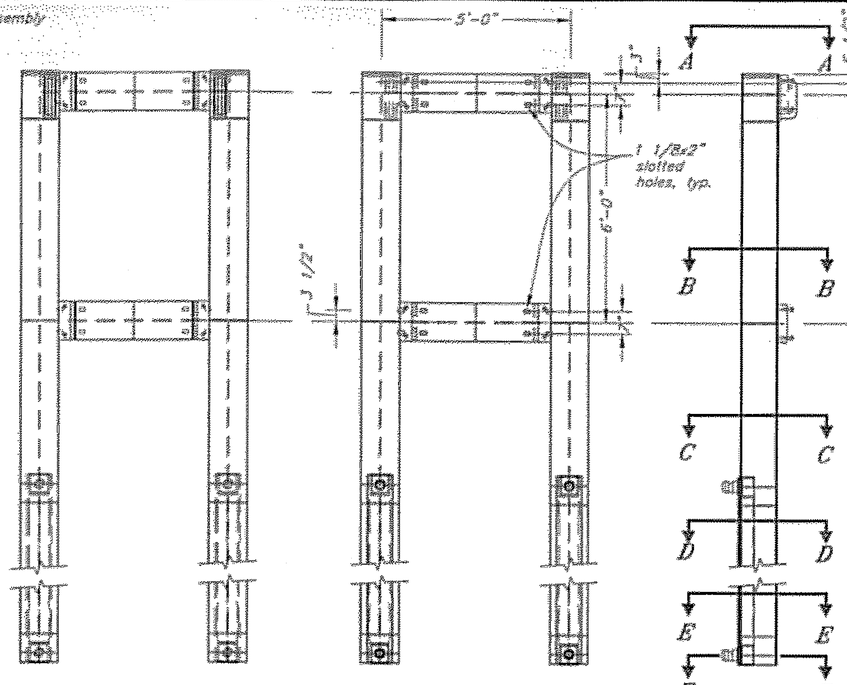
REVISIONS NO.	DATE	DESCRIPTION	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			67844	2005	73	99

2/07

Notes for welds not shown:
- Tube to flange, use 3/8" fillet all around
- Tube to tube, use 3/8" fillet all around
- Flange to flange, use partial pen. 3/8" groove weld
- For welds @ lock and lock cover PL's see similar weld detail callout on Shts. 45-54
- Unless shown otherwise, all other welds shall be 1/4" fillets each side or all around as req'd

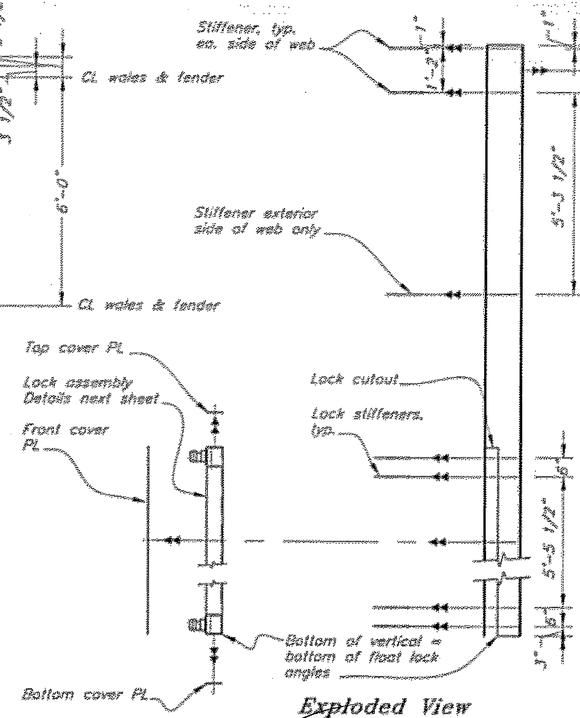


Section @ CL Fender
Lock & Brace Assembly

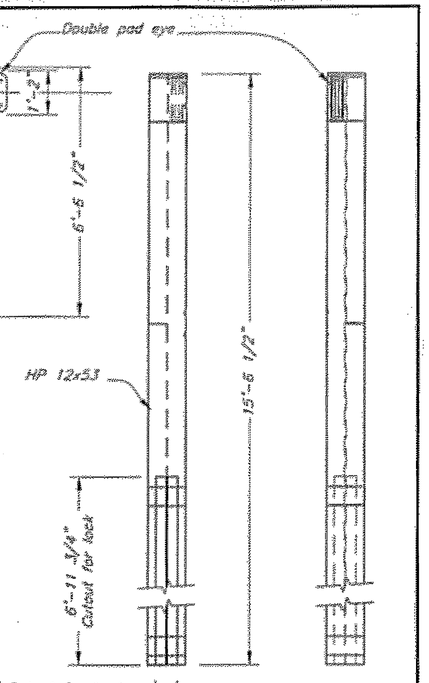


(Fender Side) (Brace Side) (Apron Side)

Elevation
Fender Lock Assembly

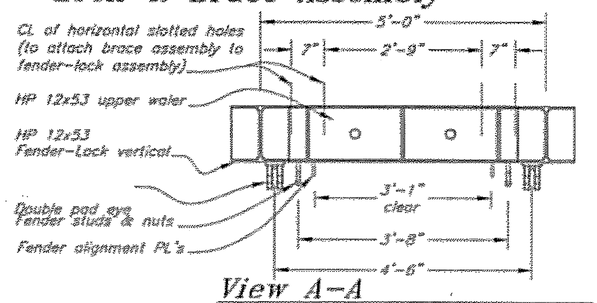


Exploded View
(Apron Side)

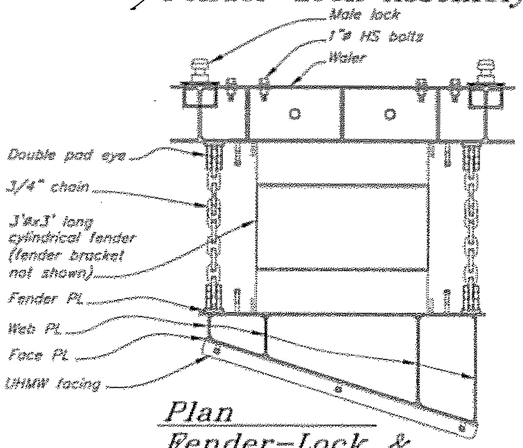


(Lock Side) (Fender Side)

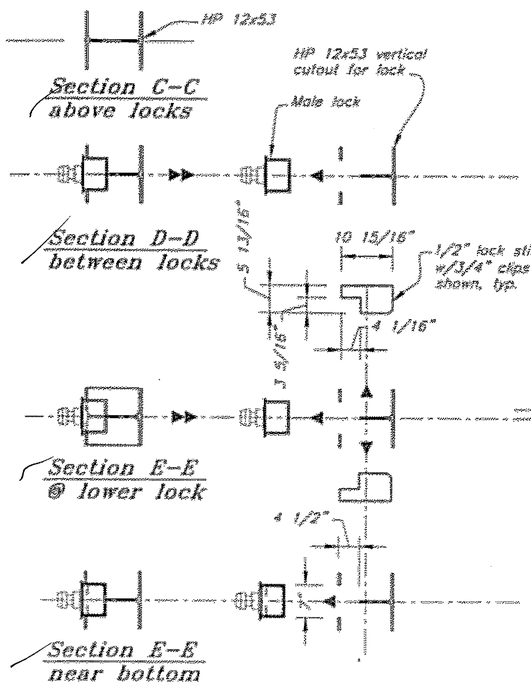
Elevation
Fender Lock Vertical

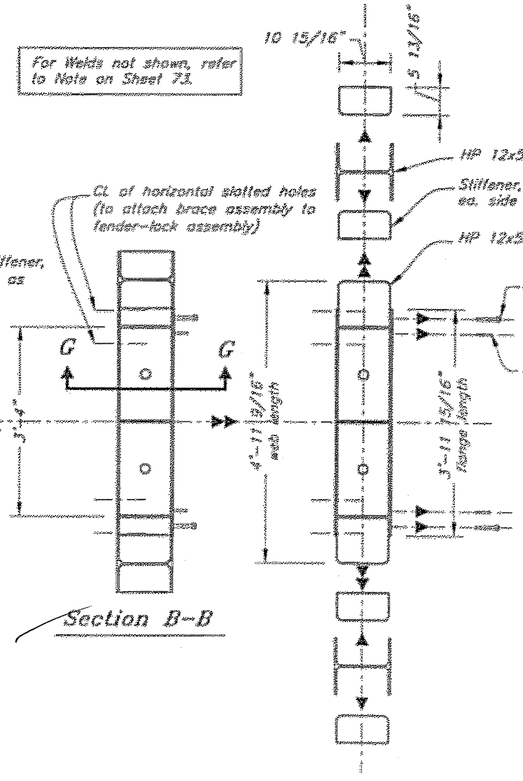


View A-A
Fender-Lock Assembly

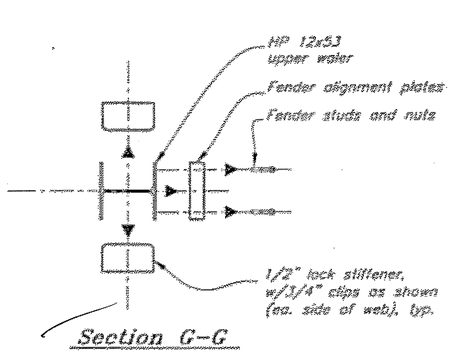


Plan
Fender-Lock & Fender Assembly





Section B-B



Section G-G

Sections & Exploded Views
Fender Lock Vertical

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

DESIGNED BY: J. Scott
DRAWN BY: J. Scott, T. Mores
CHECKED BY: J. Scott
PATH: G:\Plan\67844\MP\Planset\74 Fender lock assembly.dwg
PLOT: PSPACE 1=1
TH, 15/Feb/05 12:12PM

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
S.E. REGION DESIGN & ENGINEERING SERVICES DIVISION

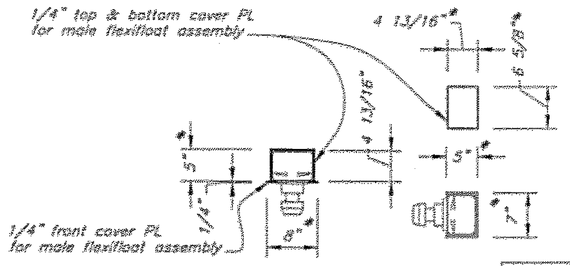
Jon T. Scott CE-4755 — 3-10-05

Coffman Cove Ferry Terminal
Project 67844

Fender-Lock Assembly & Details

REVISIONS NO	DATE	DESCRIPTION	PROJECT DESIGNATION	YEAR	SHEET NO	TOTAL SHEETS
			67844	2005	74	99

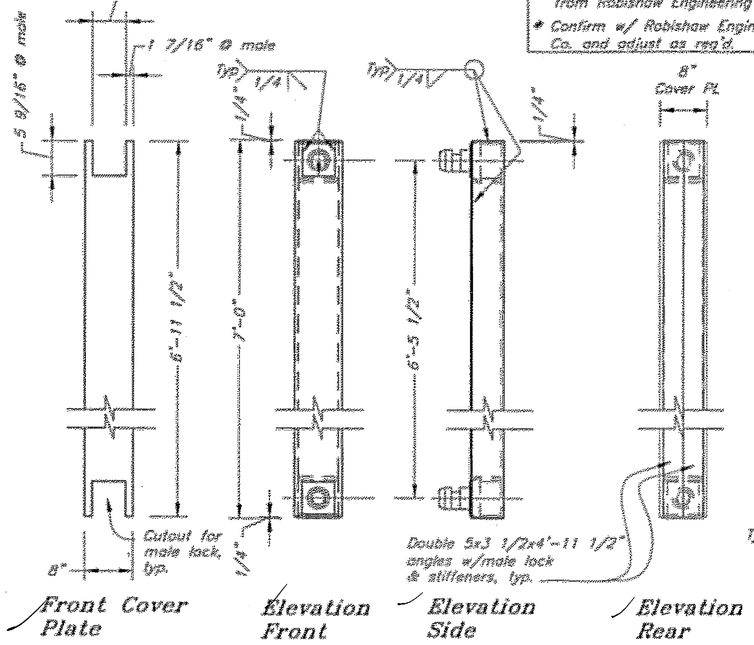
2/07



Top View

Note: Male flexifloat assembly– w/ double 5x3 1/2x4'–11 1/2" angles, male lock & stiffeners, typ. from Robishaw Engineering Co.

* Confirm w/ Robishaw Engineering Co. and adjust as req'd.



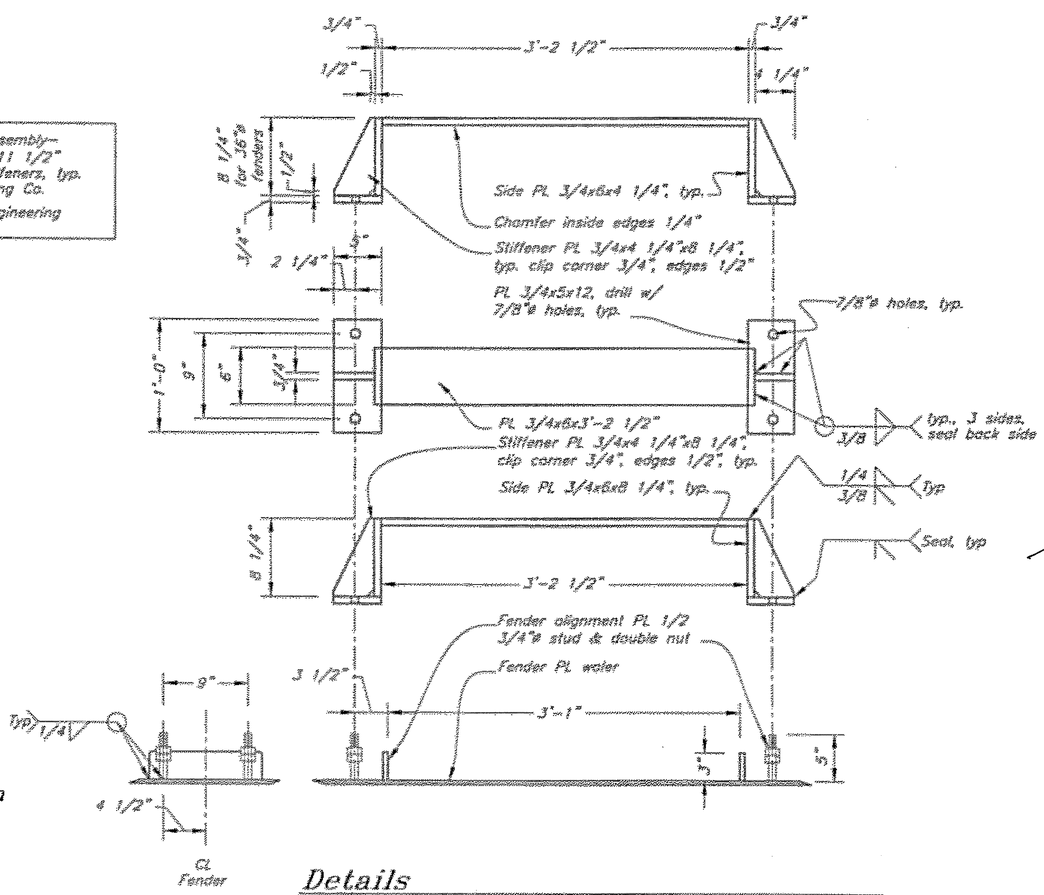
Front Cover Plate

Elevation Front

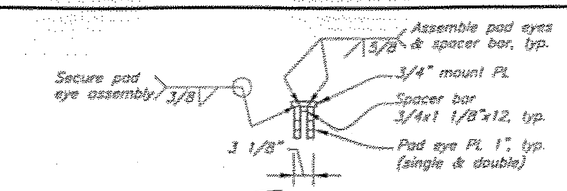
Elevation Side

Elevation Rear

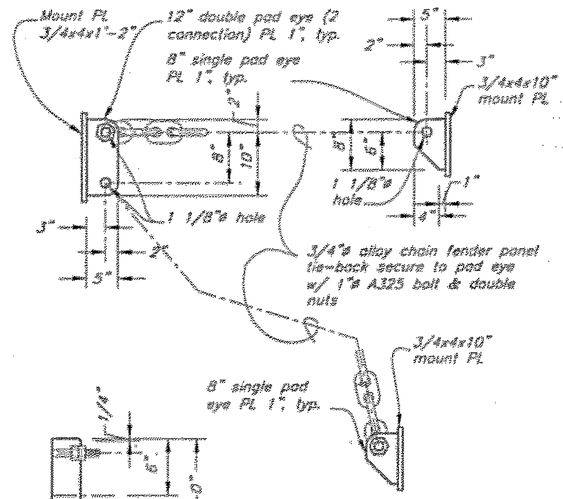
Flexifloat Lock Assembly & Cover Plates



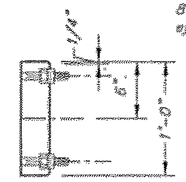
Details Fender Mount Bracket (for 36"ø x 3'–0" long fenders)

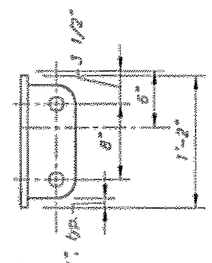


Typical Plan



Fender Alignment Plate





Upper Pad Eye

Note: Weld mount PL to waters & panels w/ 3/8" fillet all around

Details Pad Eye Side View

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

DESIGNED BY: J. Scott

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
S.E. REGION DESIGN & ENGINEERING SERVICES DIVISION

Coffman Cove Ferry Terminal
Project 67844

Stern Berth Ramp Lock Details II

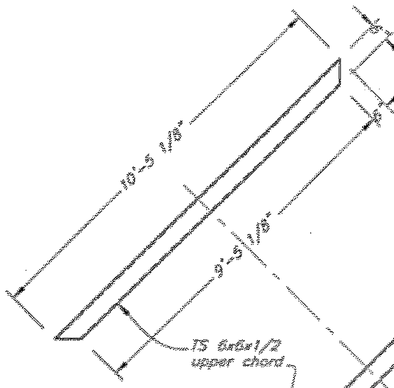
CHECKED BY: J. Scott
DRAWN BY: J. Scott, T. Mores
PATH: C:\Proj\67844\MF\Planset\75 Fender lock assembly II.dwg
PLOT: PSPACE 1=1
Fri, 18/Feb/05 12:39PM

REVISIONS NO	DATE	DESCRIPTION	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			67844	2005	75	99

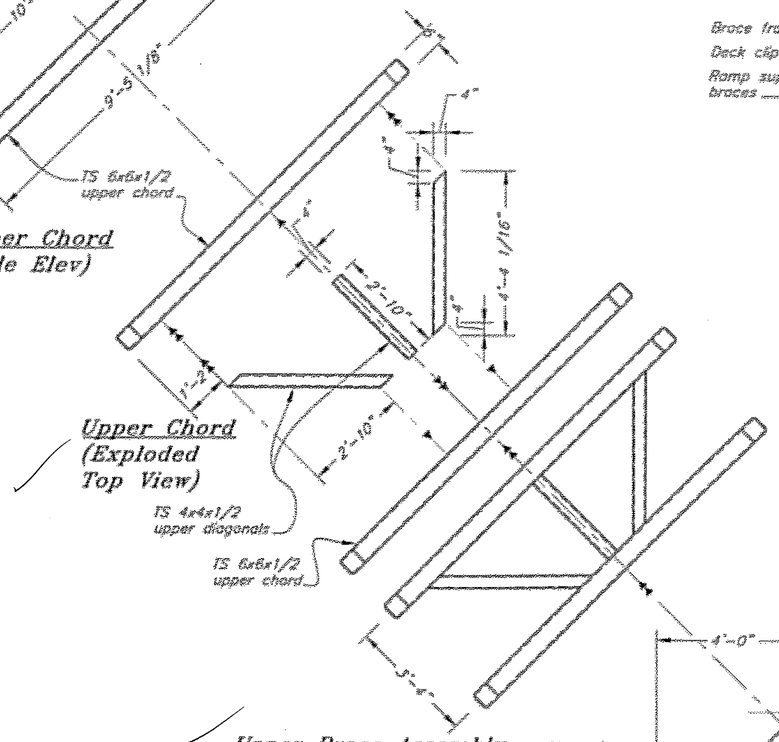
2/07

Notes for welds not shown:

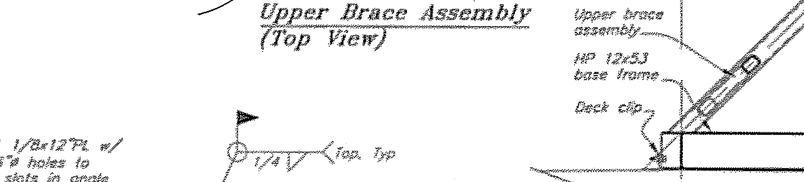
- Tube to flange, use 3/8" fillet all around
- Tube to tube, use 3/8" fillet all around
- Flange to flange, use partial pen. 3/8" groove weld
- For welds @ lock and lock cover PL's see similar weld detail callout on Shts. 45-54
- Unless shown otherwise, all other welds shall be 1/4" fillets each side or all around as req'd



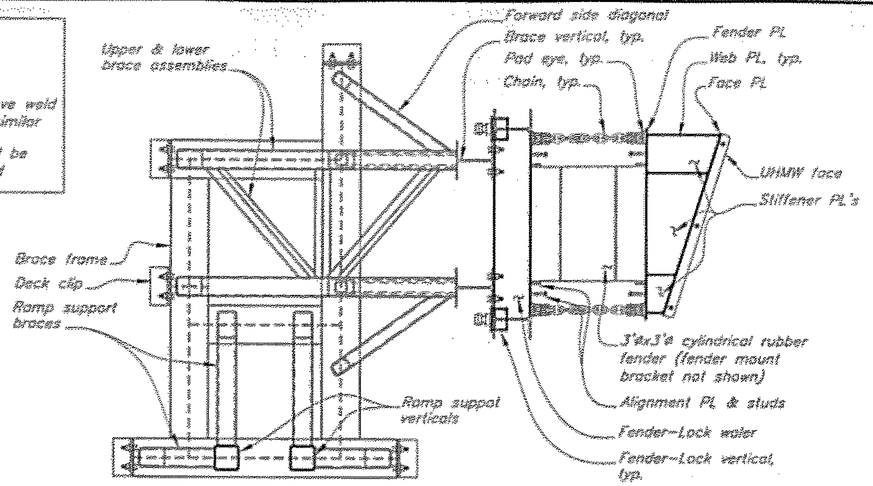
Upper Chord (Side Elev)



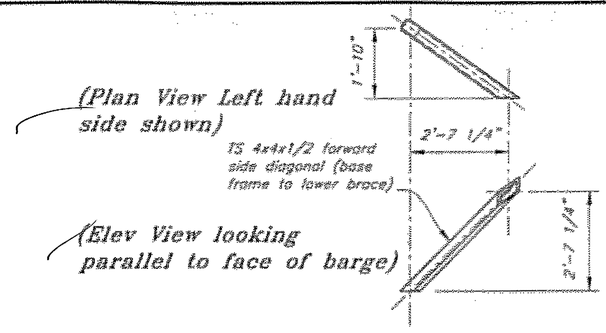
Upper Chord (Exploded Top View)



Upper Brace Assembly (Top View)

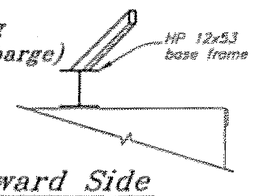


Plan
Fender-Lock, Brace & Ramp Support Assemblies

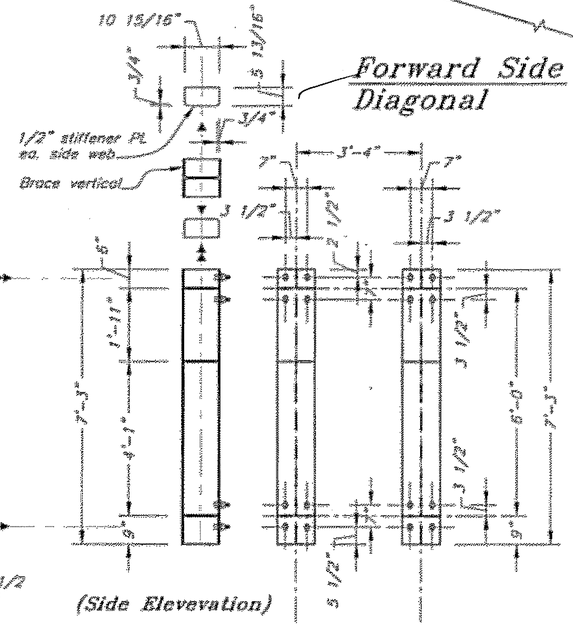


(Plan View Left hand side shown)

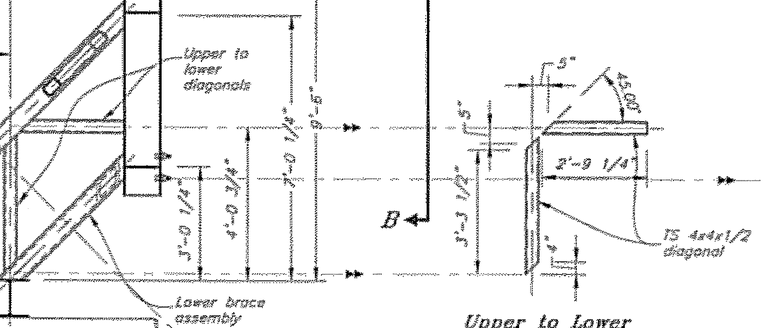
(Elev View looking parallel to face of barge)



(Section View looking parallel to face of barge)



Forward Side Diagonal

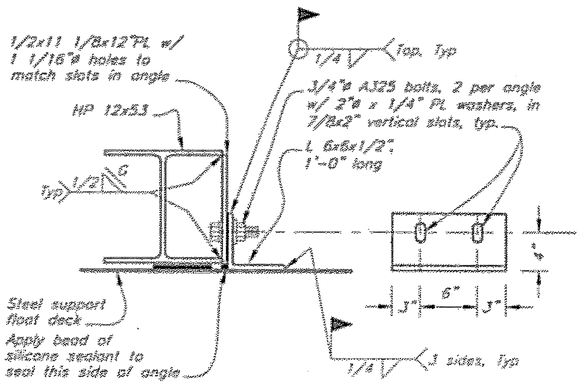


Section A-A
Brace Assembly @ CL Fender
(Fender-Lock assembly not shown)

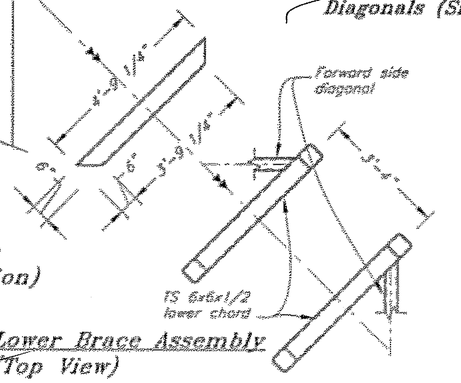
Upper to Lower Diagonals (Side Elev)

(Side Elevevation)

Front Elevation B-B
HP 12x53 brace assembly vertical
(looking from Fender)



Clip Detail



Lower Brace (side elevation)

Lower Brace Assembly (Top View)

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

DESIGNED BY: J. Scott
CHECKED BY: J. Scott
DRAWN BY: J. Scott, T. Morris

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
S.E. REGION DESIGN & ENGINEERING SERVICES DIVISION

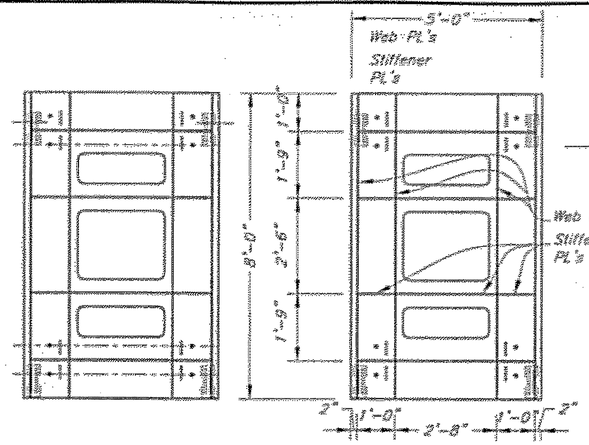
Coffman Cove Ferry Terminal
Project 67844

Fender Brace Details

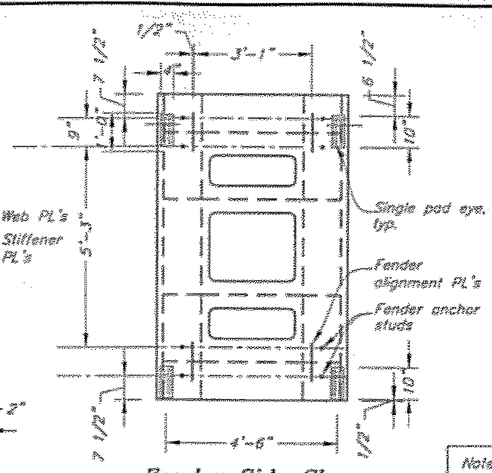
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PLOT: PSPACE 1=1
FRI, 18/Feb/05 12:31PM

REVISIONS NO.	DATE	DESCRIPTION	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
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✓ gm 2/07

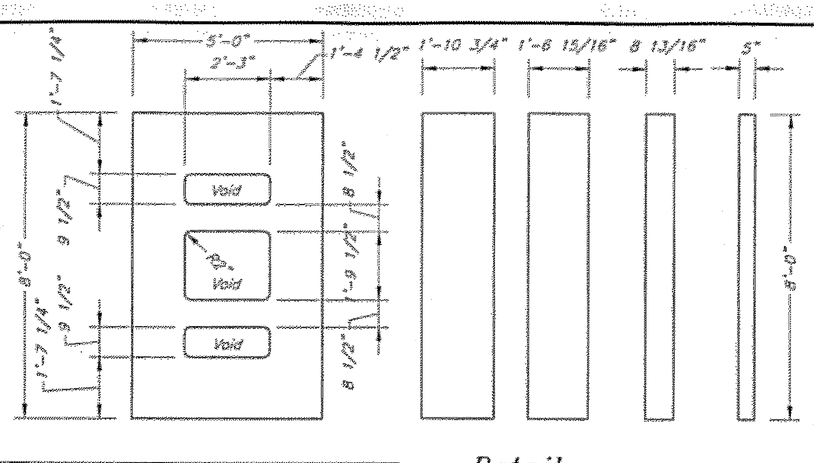


Face Plate Side Shown



Fender Side Shown

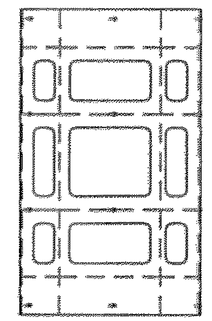
Elevation A-A
1/2" Fender Plate



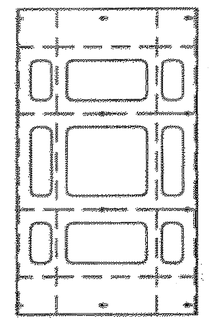
Detail
3/8" Web Plates

Notes for welds not shown:

- Tube to flange, use 3/8" fillet all around
- Tube to tube, use 3/8" fillet all around
- Flange to flange, use partial pen. 3/8" groove weld
- For welds @ lock and lock cover PL's see similar weld detail callout on Shts. 45-54
- Unless shown otherwise, all other welds shall be 1/4" fillets each side or all around as req'd

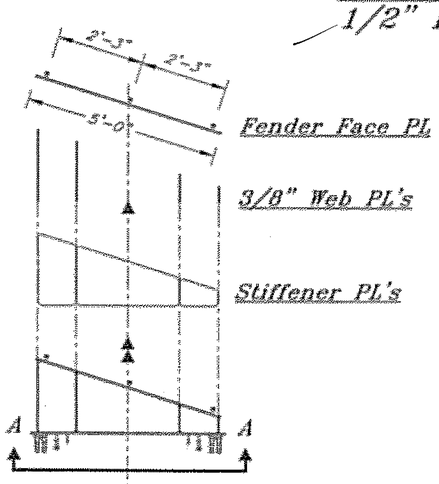


(looking from Ship toward bridge parallel to CL bridge Left - seaward side fender shown)

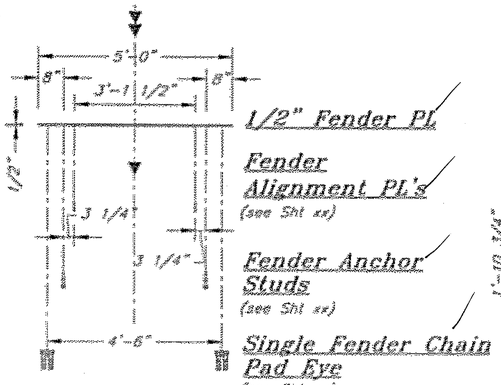


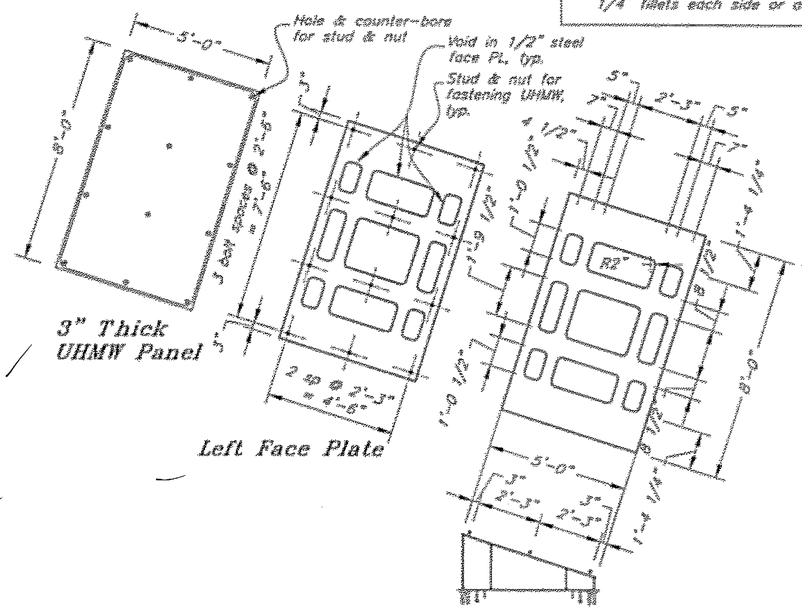
(looking from Ship toward bridge parallel to CL bridge Right - shoreward side fender shown)

Front Elevation A-A
Stern Fender Face Plate

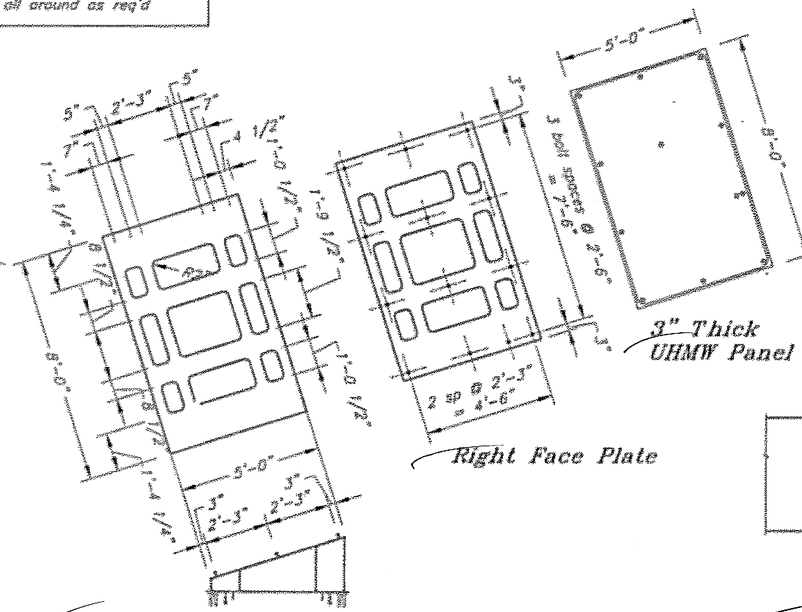


Plan
Fender Panel Assembly
(exploded views above & below)

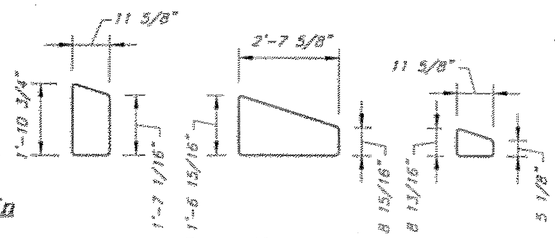




(view looking from bottom up of left - seaward side fender)



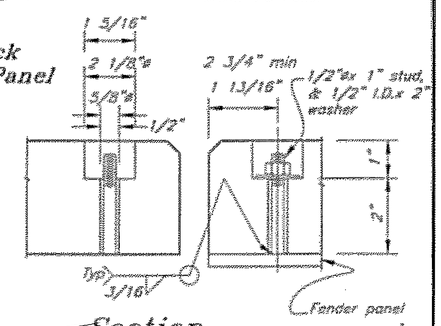
(view looking from bottom up of right - shoreward side fender)



Detail
Stiffener Plates

Elevation-1/2" Face Plate
Stern Fender Panel

Note: Submit facing & stud layouts for approval. Coordinate facing installation with HDPE panel supplier. UHMW sheet size, space between sheets, hole size & hole location per manufacturer's recommendation.



Section
Fender Face

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

DESIGNED BY: J. Scott
DRAWN BY: J. Scott, T. Mores
CHECKED BY: J. Scott
PATH: G:\Pow\67844\Mf\Plansmf\77 Fender Panel assembly.dwg
PLOT: PSPACE 1=1
FRI, 18/Feb/05 12:30PM

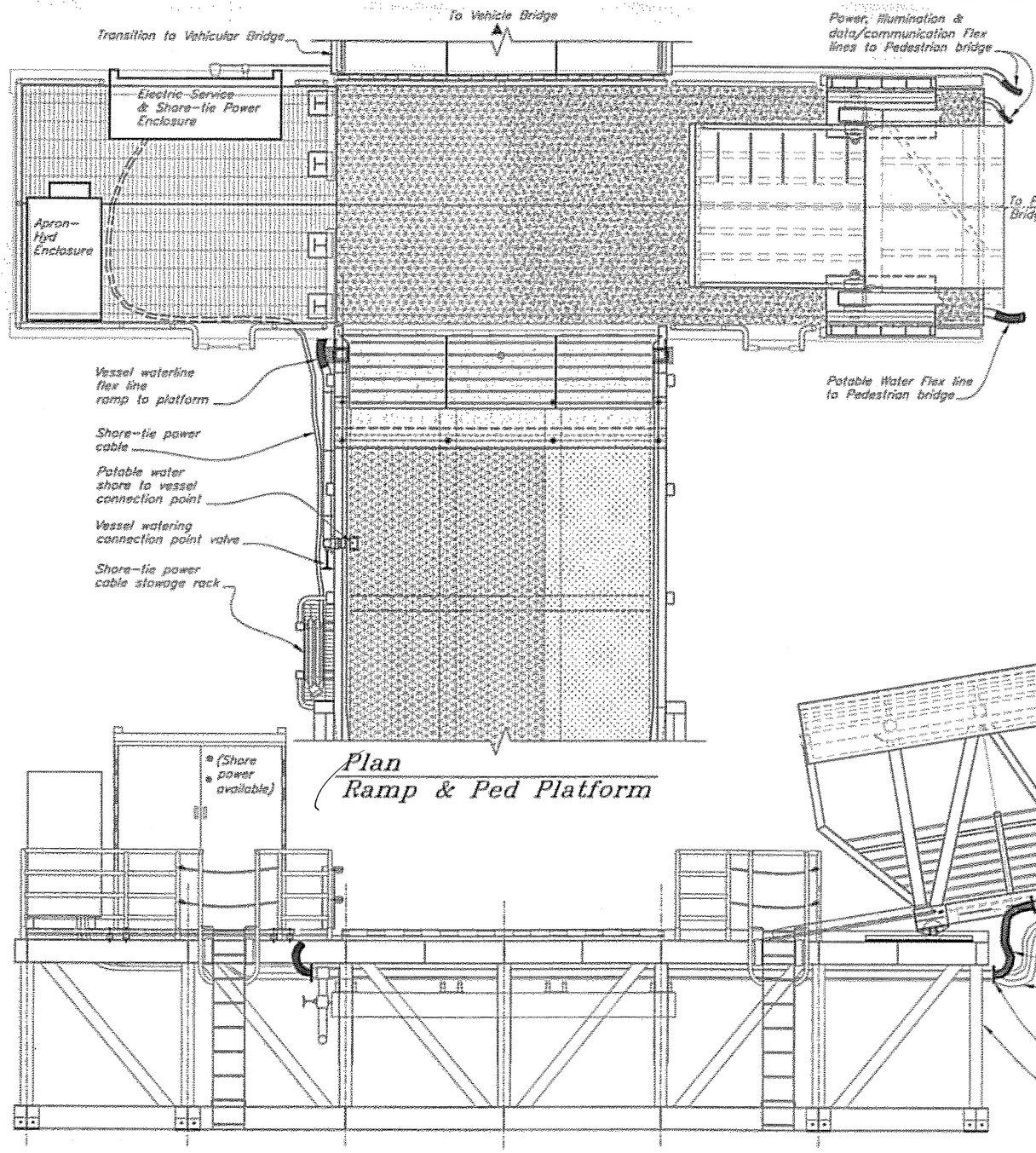
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
S.E. REGION DESIGN & ENGINEERING SERVICES DIVISION

Coffman Cove Ferry Terminal
Project 67844

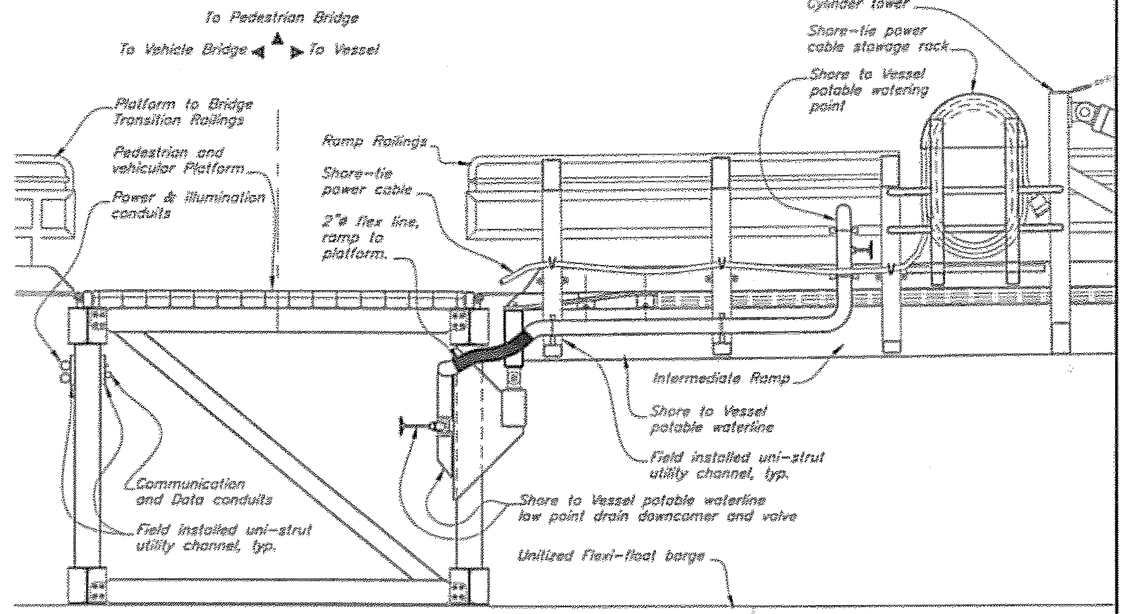
Stern Fender Panel Details

REVISIONS NO.	DATE	DESCRIPTION	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			67844	2005	77	99

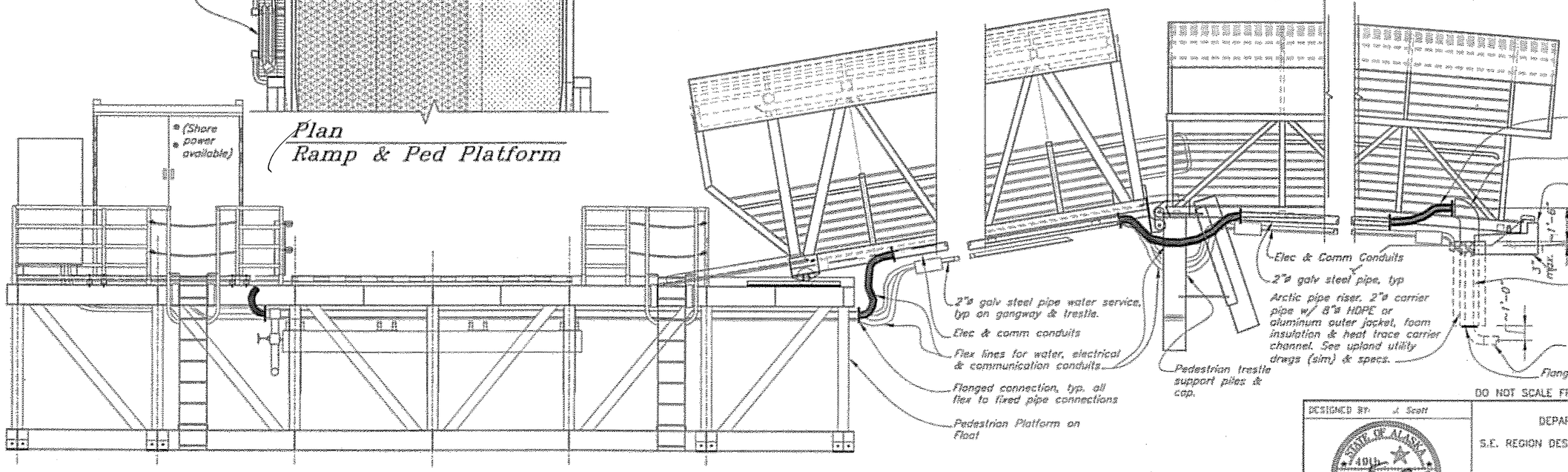
✓ JM 2/07



Plan
Ramp & Ped Platform



Sectional Elevation
Ramp & Ped Platform



Elevation
(looking from Ramp toward Transfer Bridge)

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

DESIGNED BY: J. Scott
DRAWN BY: Scott/Mores
CHECKED BY: B Sowles
PATH: O:\Pow\67844\MF\Planset\78 UtilPedPlatform 1.DWG
PLOT: PSPACE 1=1
Thu, 24/Feb/05 10:50AM

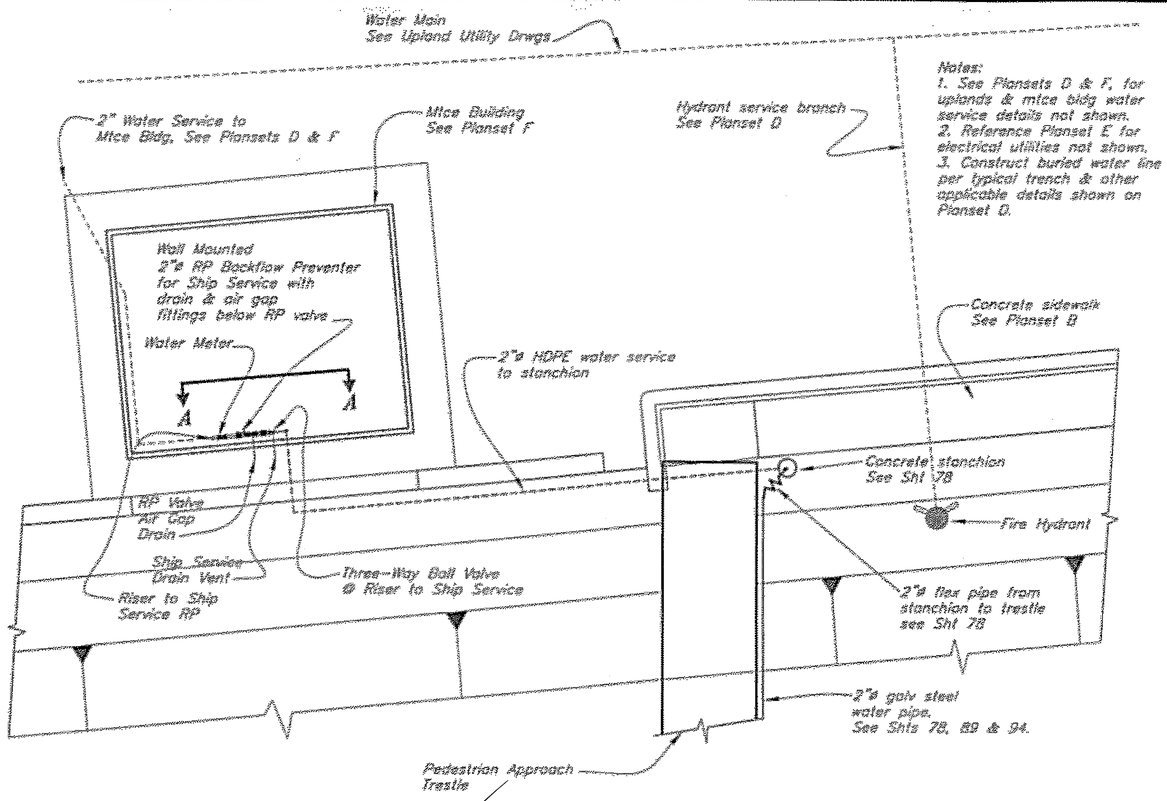
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
S.E. REGION DESIGN & ENGINEERING SERVICES DIVISION

Coffman Cove Ferry Terminal
Project 67844

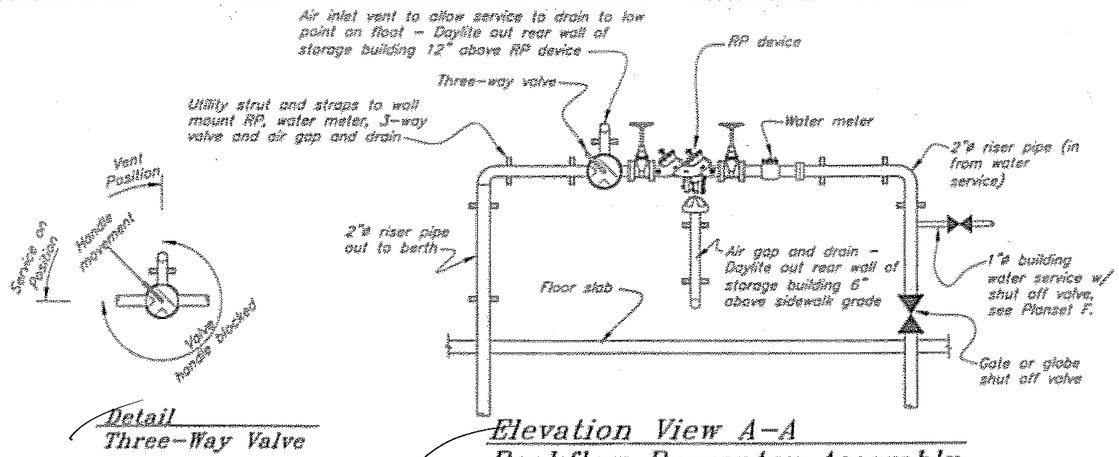
Utilities Details 1

REVISIONS NO	DATE	DESCRIPTION	PROJECT DESIGNATION	YEAR	SHEET NO	TOTAL SHEETS
			67844	2005	78	99

V JM 2/07



Plan
Vessel Water Service



Detail
Three-Way Valve

Elevation View A-A
Backflow Preventer Assembly
(Inside Building)

NOTES: BACKFLOW PREVENTER/METER & ENCLOSURE

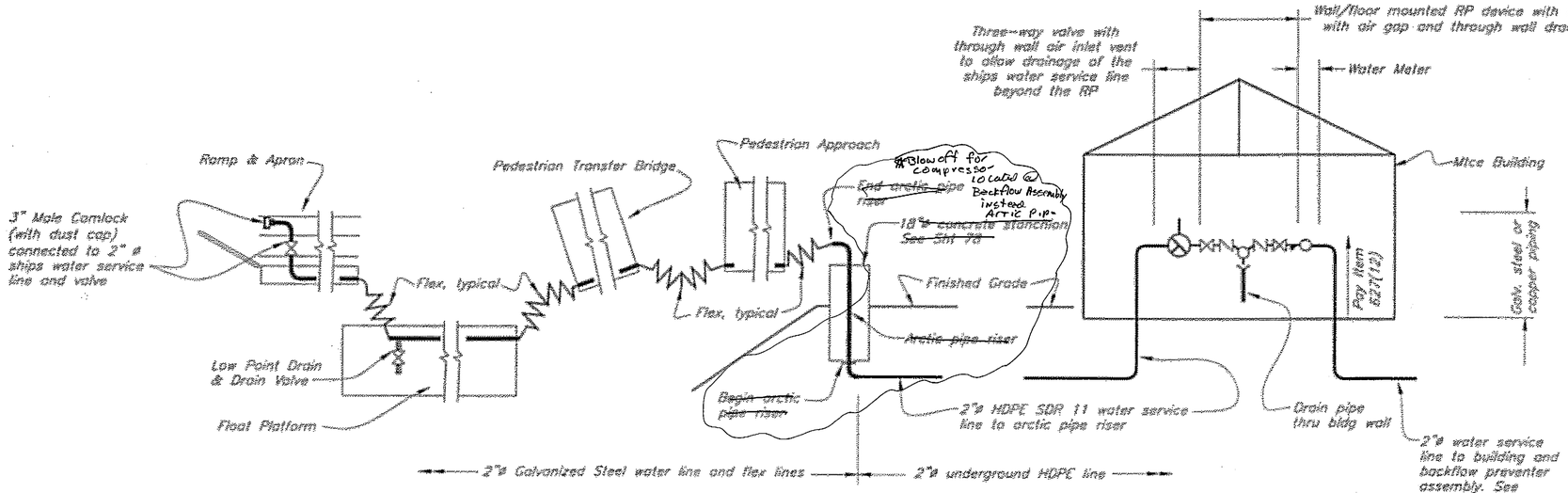
1) Backflow preventer shall be 2 inch diameter and shall be Febco 860-NRS, Zurn/Wilkins Model 975, or equivalent.

2) Water meter shall be Sensus Technologies, Inc. 2 inch, Model W-350 DRS Turbo-Meter with the Touch Read PitLid or equal and be compatible with City of Coffman Cove water system.

3) Water meter and RP fittings to be flange to flange, others may be NPT threaded connections.

4) Air gap drain and service drain air inlet vent shall be terminated with screened fittings to preclude foreign object insertion or pest entry into piping.

Details
Backflow Preventer



Schematic View
Vessel Water Service

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

DESIGNED BY: J. Scott
DRAWN BY: Scott
CHECKED BY: B. Sowles

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& PUBLIC FACILITIES
S.E. REGION DESIGN & ENGINEERING SERVICES DIVISION

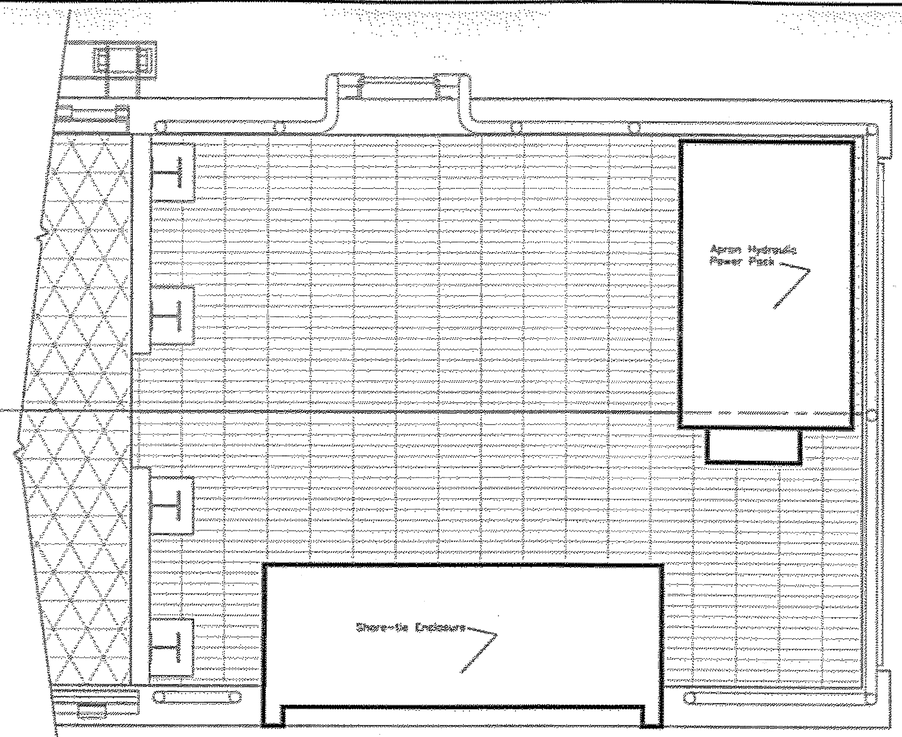
Coffman Cove Ferry Terminal
Project 67844

Utilities Details 2

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Wed, 02/Mar/05 01:03PM

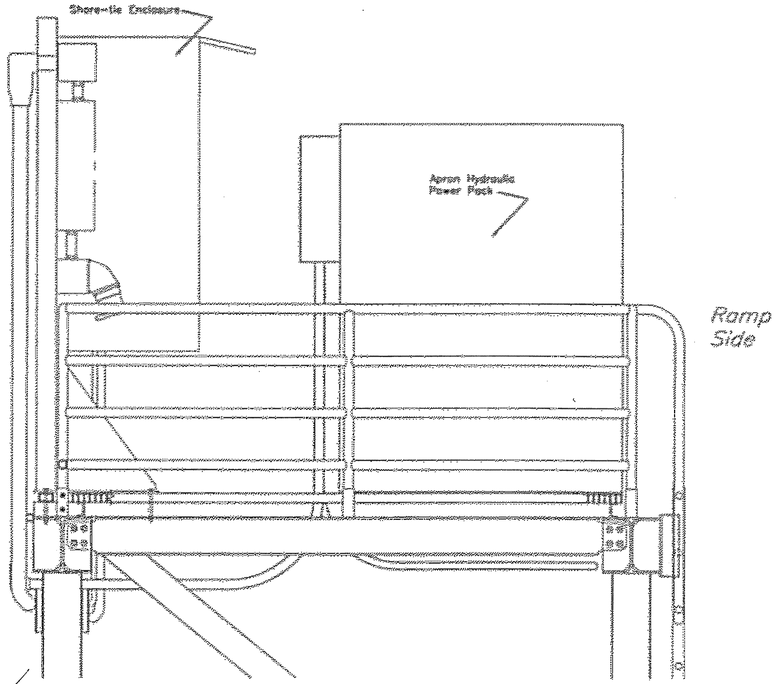
REVISIONS			PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
NO.	DATE	DESCRIPTION	67844	2005	79	99

✓ 9/12 2/07



PLAN VIEW – POWER & APRON POWER PACK ENCLOSURES

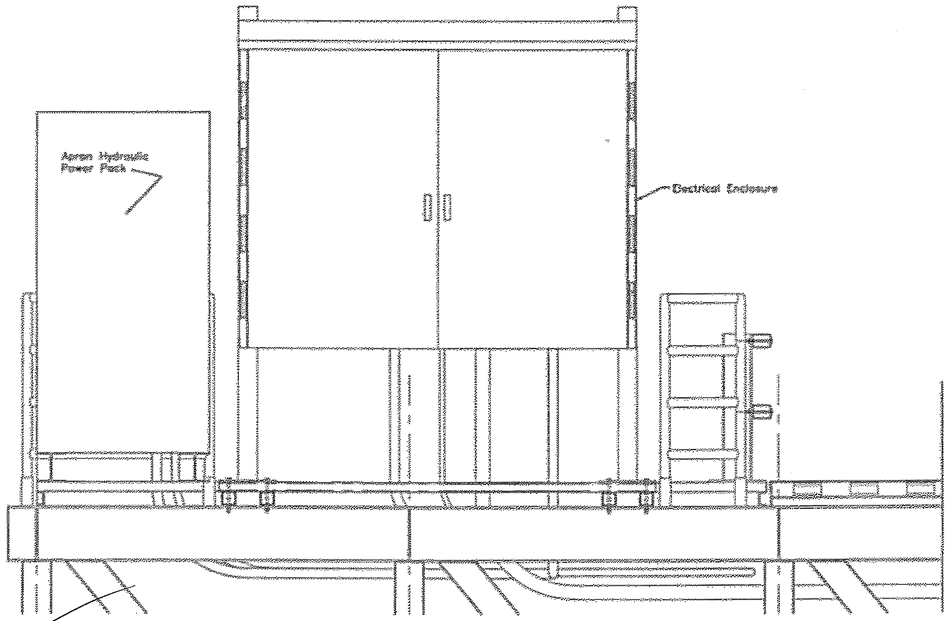
3/4"=1'- 0"



SIDE ELEVATION VIEW – SHORE-TIE ENCLOSURE

3/4"=1'- 0"

Note: See Electrical Drawings and coordinate as required to mount panels, conduits and hardware, including adjusting rails and grating support spacer frames provided to support Electrical equipment



FRONT VIEW – SERVICE & SHORE-TIE ENCLOSURE

3/4"=1'- 0"

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

DESIGNED BY: B. Nelson

DRAWN BY: B. Nelson

CHECKED BY: J. Scott

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
& PUBLIC FACILITIES
S.E. REGION DESIGN & ENGINEERING SERVICES DIVISION

Coffman Cove Ferry Terminal
Project 67844

Utilities Details 3

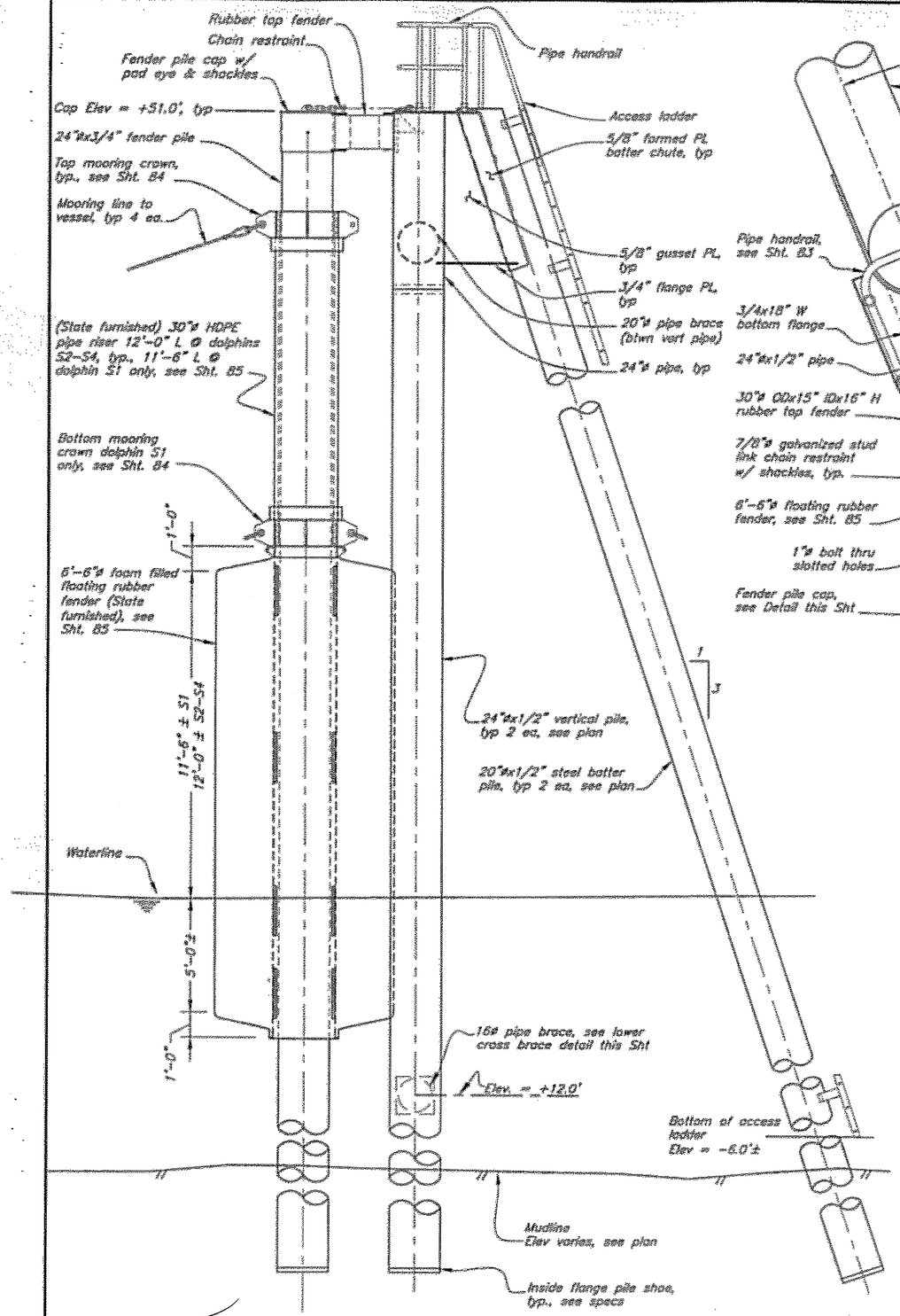
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PLOT: PSPACE 1=1

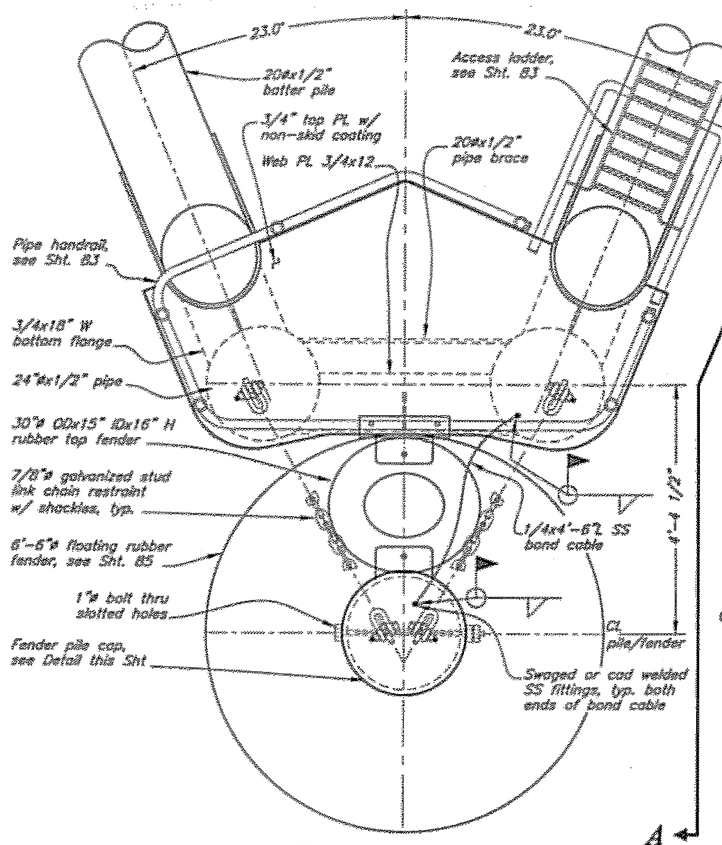
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NO.	DATE	DESCRIPTION				
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2/07

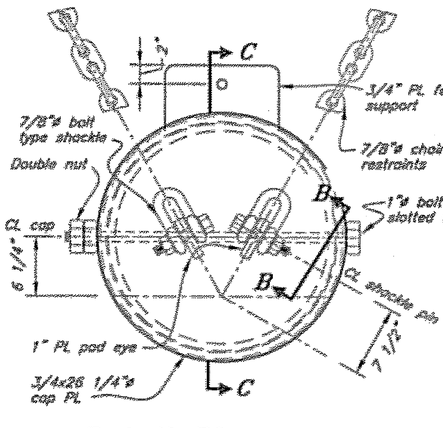


Typical Section A–A
Floating Fender

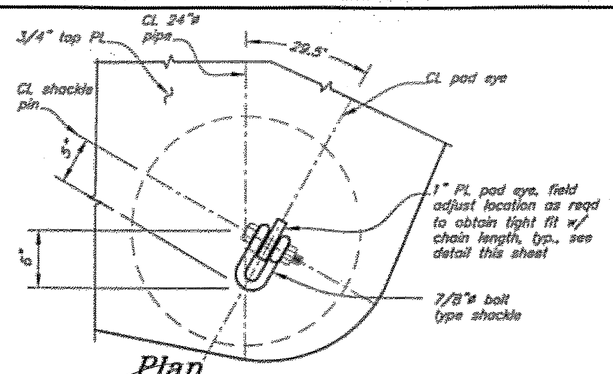


Plan
Floating Fender

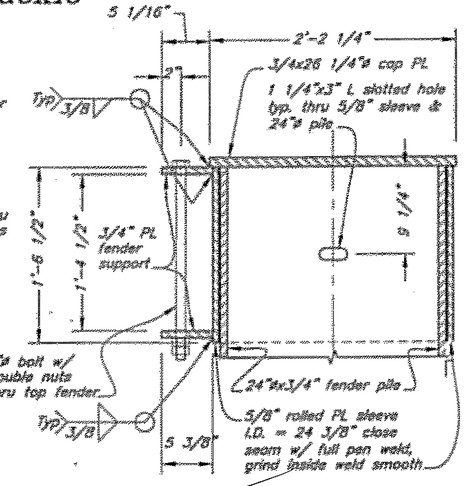
Plan
Lower Cross Brace



Detail Plan
Fender Pile Cap

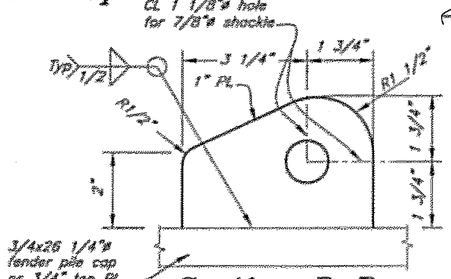


Plan
Top PL Shackle



Section C–C
Cap

Note: Shackles & padeyes not shown for clarity



Section B–B
Pad Eye Detail

Typ. 4 each

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

DESIGNED BY: K. Miller
CHECKED BY: J. Beedle
DRAWN BY: Staff

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
S.E. REGION DESIGN & ENGINEERING SERVICES DIVISION

Coffman Cove Ferry Terminal
Project 67844

Floating Fender Dolphin Plan & Elevation

PATH: G:\Pw\67844\MF\Planset\81 DOLPHIN PLAN & ELEV.DWG
PLOT: PSPACE 1=1
Thu, 10/Mar/05 04:32PM

REVISIONS NO.	DATE	DESCRIPTION	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			67844	2005	81	99

2/07

Note: Handrail & batter chutes not shown for clarity.

30"ø OD x 15"ø ID x 16" long rubber top fender

Fender pile cap, see Sht. 81

10 1/2"

3/4" top PL

6"

1/2 Typ

5'-6"

24"ø x 1/2" pipe

C

C

2'-5 1/2"

1'-0"

1/2 Typ oil contacts

5/8" steel gusset PL, typ

5/8" formed batter chute, typ

3/4"x18" W steel bottom flange PL, typ btwn. piles

CP

1/2 Typ

20"ø x 1/2" pipe brace (btwn 24"ø vertical piles)

24"ø x 1/2" vertical pile

20"ø x 1/2" batter pile

1

3

9"

5/8" rolled PL ID = 20 1/4"

5/8" gusset PL

Section C–C
Batter Chute

Typical Section A–A
Dolphin Cap

D D

45°

2'-1 13/16"

2'-4 7/8"

4 13/16"

Web PL 3/4x12

Bollard chute CL

Handrail post sleeve, typ. 2 ea, see Sht. 83

CL batter chute

7 7/8"

10 5/8"

10 5/8"

10 5/8"

5 1/8"

5 1/8"

A

A

5'-6"

9 1/2"

6"

1'-9"

1'-8"

2'-1 1/2"

1'-8"

1 1/2"

2'-1 1/2"

10 1/2"

11.0"

67.0"

67.0"

Gusset PL 5/8 Fender mount bracket

Handrail post sleeve, typ. 4 ea, see Sht 83

Flange PL 3/4x18 1/2

B

B

1'-3 1/4"

1'-2 3/4"

1'-2 3/4"

1'-3 1/4"

CL 24"ø pipe

CL 24"ø pipe

Plan
Dolphin Cap

Pipe handrail see Sht X04

3'-6"

3/4" top PL w/ non-skid coating

3/8 Typ. Web PL to pipe

Fender mount bracket, see Details this sht

Typ 1/2

Flange PL 3/4x18 1/2 (between pipe)

1/2 (Seal) Typ

5'-2"

Web PL 3/4x12, cope to fit 24"ø pipe, typ.

24"ø x 1/2" pipe

20"ø x 1/2" pipe brace

3/8 Typ

Cope ends of pipe brace to fit 24"ø vert pipe, typ.

CL 20"ø pipe brace

1'-10"

Pile cutoff & cap splice Elev=+44.0'

CP

5'-0"

Front Elevation B–B
Fender Structure

3/8" PL cap cut to elliptical shape to fit pile

Radius corner of batter chute, typ.

5/8" rolled PL batter chute

Typ 1/2

1/4 Typ

3/4"

Pile cutoff

3/4" top PL

6"

20"x1/2" batter pile

Typ 3/8

9"

3/4" edge PL

3/8

1/4 Typ

Detail
Batter Chute & Pile 1

3/4" top PL

3/4x6" edge PL

1/4

Angle point of edge plates

Elevation View D–D
Edge PL Angle Point

3/4" top PL

CL 1"ø pad eye

29.7"

CL pad eye

5"

6"

1" PL pad eye, field adjust location as reqd to obtain tight fit w/ chain length, typ., see Sht. 81

7/8"ø bolt type shackle

Plan
Top PL Shackle

2 1/2"

1'-7"

2 1/2"

1'-2"

1"ø hole

1 1/8"ø hole

4 1/2"

5 1/2"

2"

8"

PL 3/4

Plan

2"

3/4"

1 1/2"

Fender support PL 3/4

1'-4 1/2"

1'-7 1/4"

5 1/2"

1/4"

Side Elevation

1 1/2"

6"

6"

1 1/2"

8"

8"

Front Elevation

Details
Fender Mounting Bracket

Fender mounting bracket, see detail this sht

Typ at ends 1/2

Typ thru middle 1/4 C 3/8

Typ 3/8

1"ø bolt w/ double nuts thru 1 1/8"ø hole in rubber top fender

Flange PL 3/4x18 1/2

CL 1"ø hole

2 1/4"

7/8"ø bolt thru fender mount bracket & top PL into tack welded nut, typ.

3/4" top PL

Gusset PL 5/8x8x8, typ.

Web PL 3/4x12

9"

1'-6 1/2"

1"

9 1/2"

45°

1/2

7/8"ø bolt thru fender mount bracket & flange PL, typ.

Detail 2

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

DESIGNED BY: K. Miller

DRAWN BY: K. Miller, T. Mores

CHECKED BY: J. Breeze

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
S.E. REGION DESIGN & ENGINEERING SERVICES DIVISION

Coffman Cove Ferry Terminal
Project 67844

Floating Fender Dolphin Cap

PATH: O:\Proj\67844\MF\Planset\82 DOLPHIN CAP.DWG

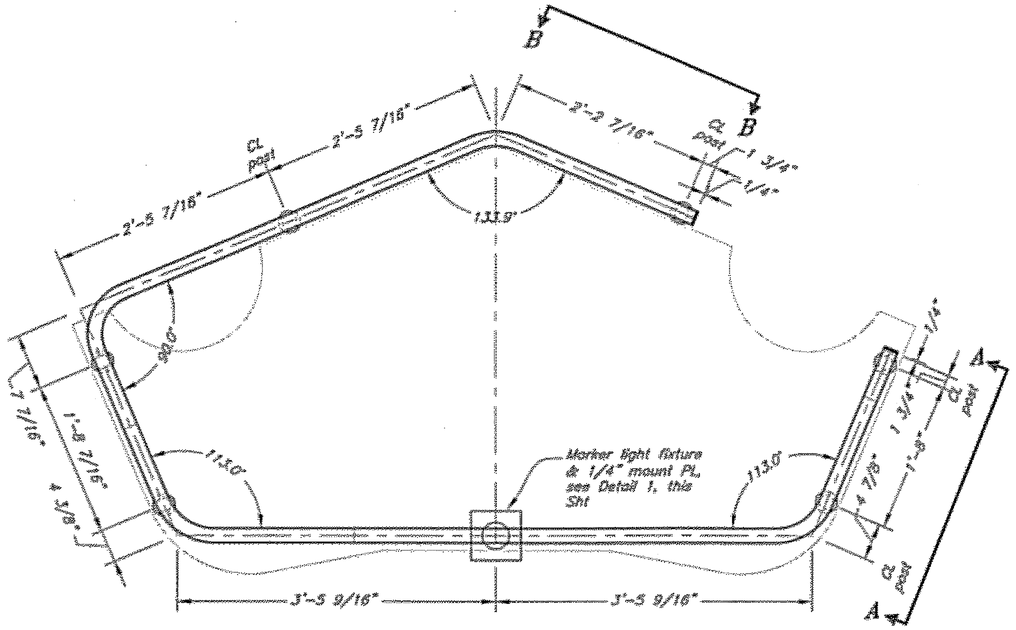
PLOT: PSPACE 1=1

Wed, 11/16/05 11:06AM

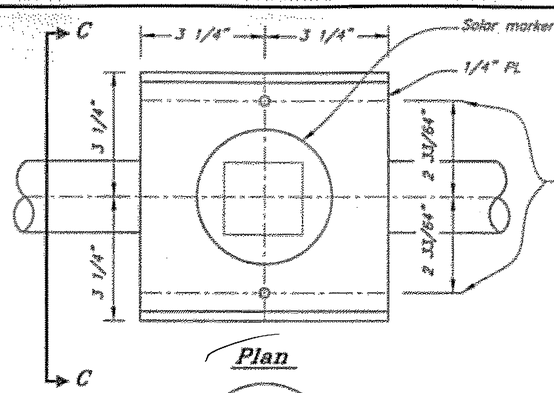
NO.	DATE	REVISIONS DESCRIPTION

PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
67844	2005	82	99

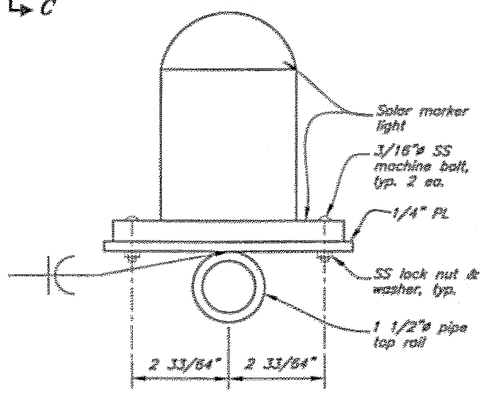
2/07



Plan
Dolphin Cap Handrail



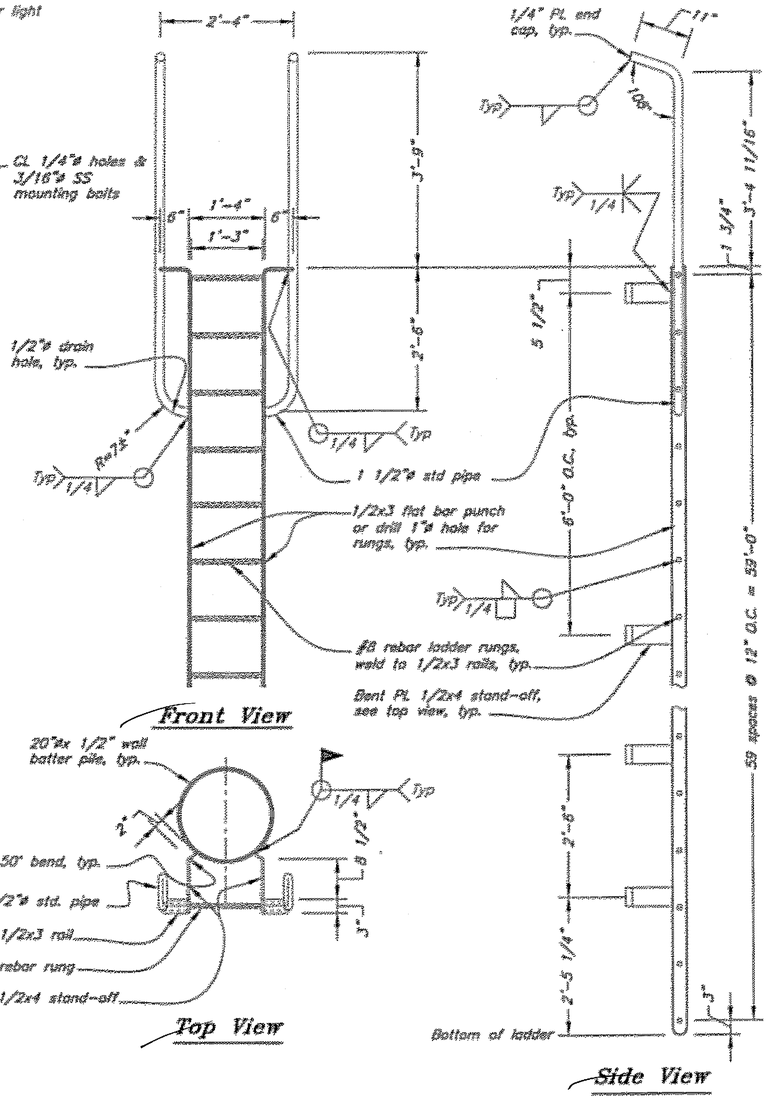
Plan



Section C-C

Notes:
1) Cormanah Model 501 light fixture or equal. See specs.
2) Marker light color shall be red for dolphin S4 & white for dolphins S1-S3.

Detail 1
Marker Light

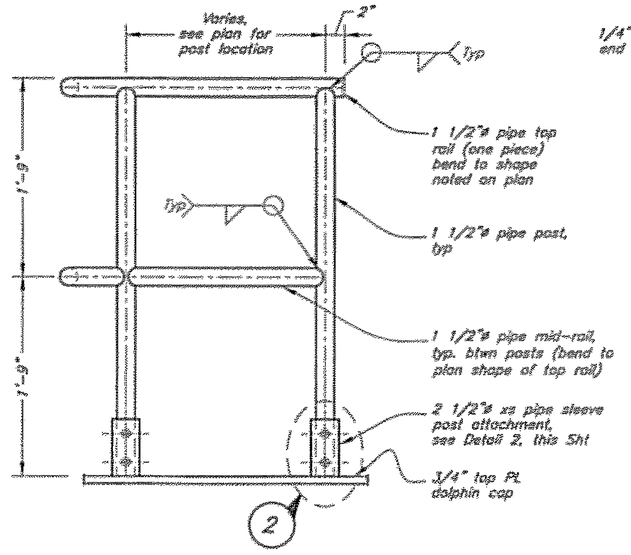


Front View

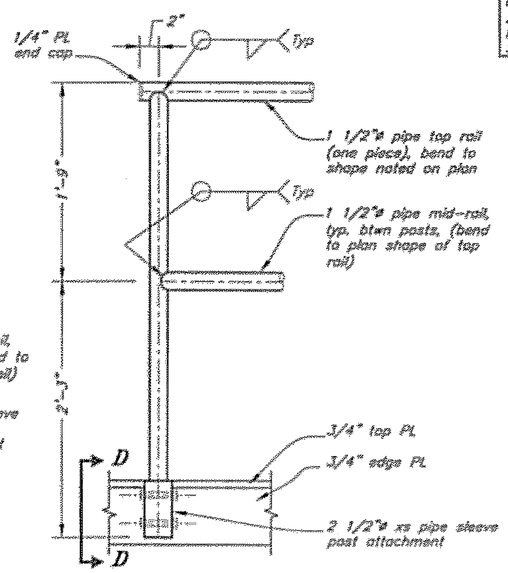
Top View

Side View

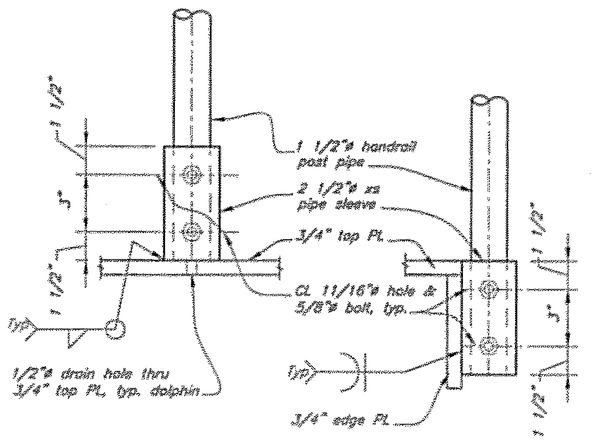
Details
Access Ladder



View A-A
Handrail



View B-B
Handrail



Detail
Post Sleeve 2

Section D-D
Post Sleeve

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

DESIGNED BY: K. Miller
DRAWN BY: K. Miller, T. Mores
CHECKED BY: J. Beedle
3/15/05

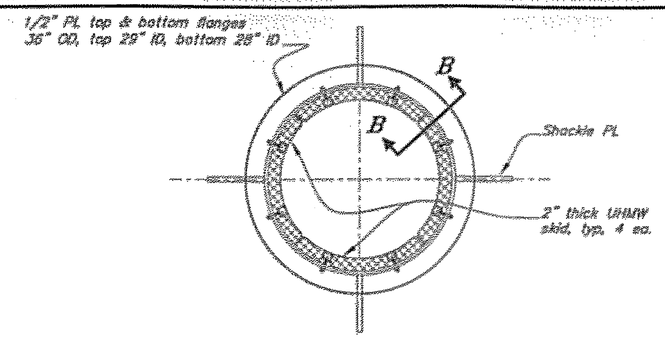
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
& PUBLIC FACILITIES
S.E. REGION DESIGN & ENGINEERING SERVICES DIVISION

Coffman Cove Ferry Terminal
Project 67844
Floating Fender
Dolphin Rail & Ladder

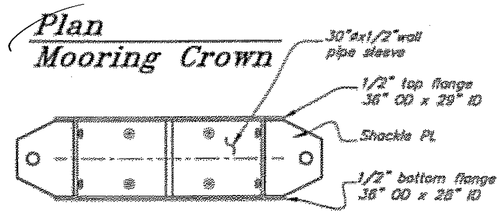
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Wed, 23/Feb/05 11:02AM

REVISIONS NO.	DATE	DESCRIPTION	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			67844	2005	83	99

✓ JMG 2/07

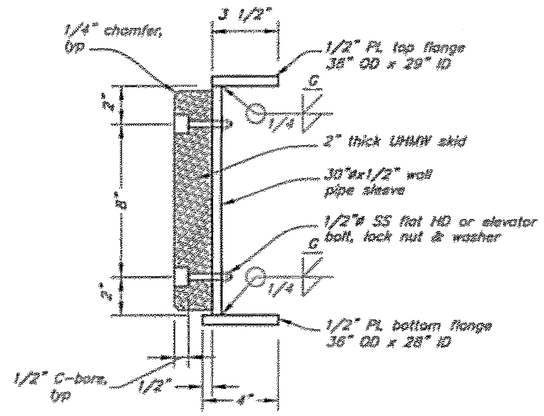


Plan
Mooring Crown

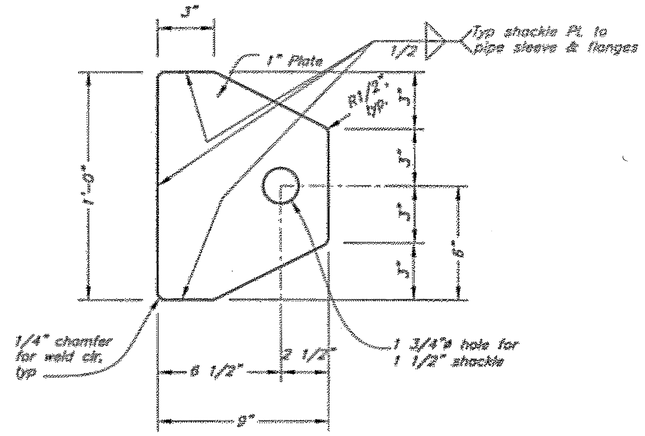


Elevation
Mooring Crown

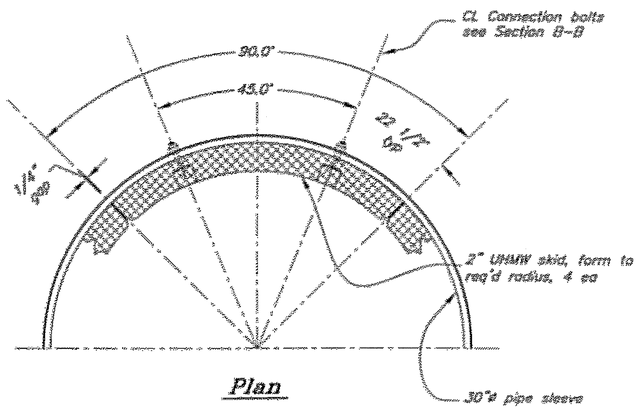
Approx. Weight = 450 LB.±



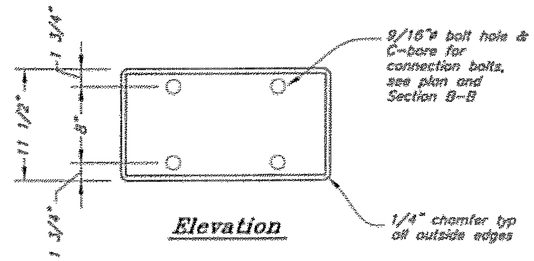
Section B-B
Mooring Crown



Crown Shackle Plate
Typ 4 EA



Plan



Elevation

Detail
UHMW Mooring Crown Skid

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

DESIGNED BY: K. Miller
CHECKED BY: J. Beedle
DRAWN BY: Staff

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
& PUBLIC FACILITIES
S.E. REGION DESIGN & ENGINEERING SERVICES DIVISION

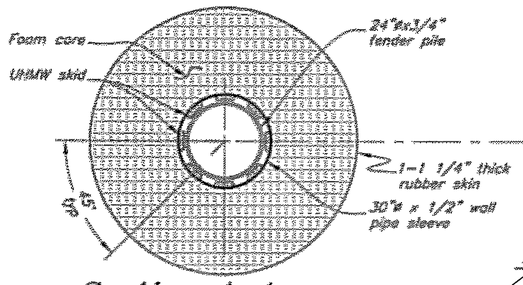
Coffman Cove Ferry Terminal
Project 67844

Floating Fender Mooring Crown

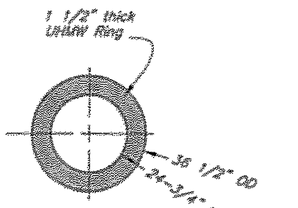
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Thu, 24/Feb/05 08:33AM

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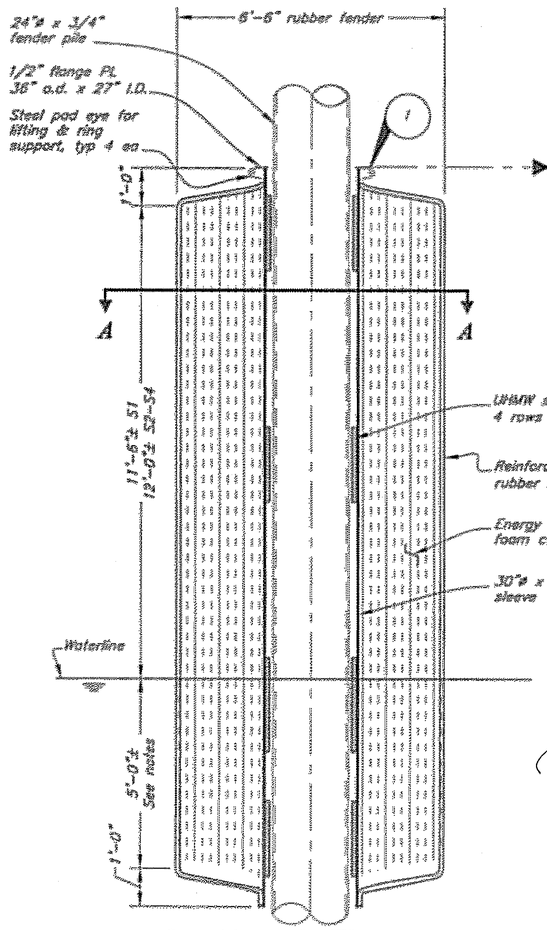
✓ 2/07



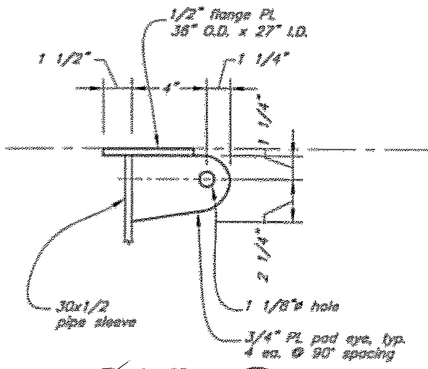
Section A-A
Floating Fender



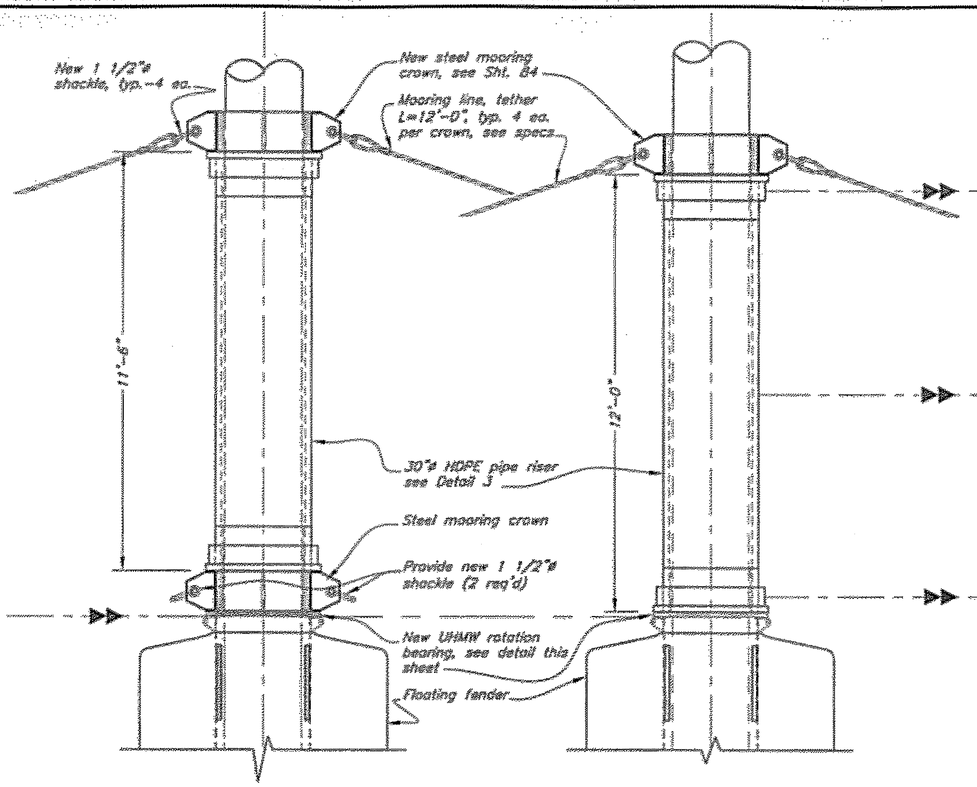
Detail
New UHMW Rotation Bearing



Sectional Elevation
Typ Floating Fender

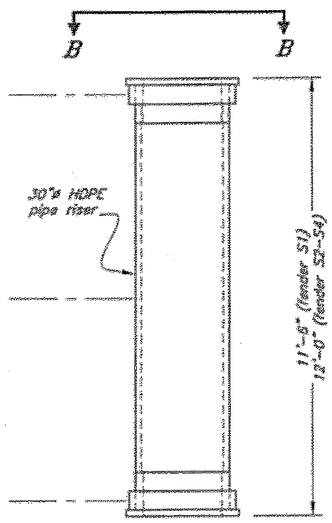


Detail
Lift Eye (1)

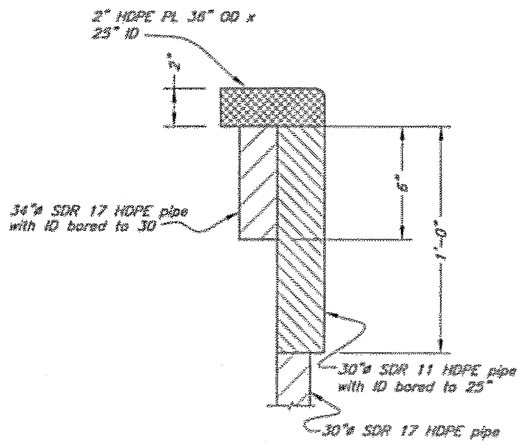


Elevation - Fender S1
Mooring Crown Riser

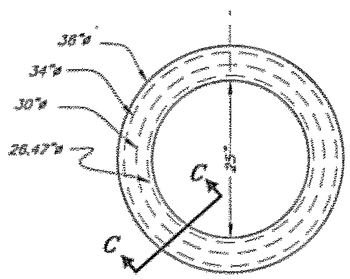
Elevation - Fenders S2-S4
Mooring Crown Riser



Elevation Detail 3
HDPE Pipe Riser



Detail Section C-C
Pipe Riser



Detail Plan B-B
Pipe Riser

Floating Fender Notes

1. Floating rubber fenders and HDPE pipe risers shall be furnished to the Contractor by the State. Fabrication details pertaining to these structures are shown for information only.
2. The rubber fenders and HDPE pipe risers are salvaged materials and are located at the DOT&PF maintenance and storage yard: 6860 Glacier Highway, Juneau, Alaska. The Contractor shall make all arrangements to obtain and transport the fenders and pipe risers to the project site. The fenders will not be available for pick up until September 1, 2005.
3. Dimensions shown are nominal. Actual dimensions vary slightly. Each rubber fender weighs approximately 9,500 lbs. Each pipe riser weighs approximately 1,000 lbs.
4. Steel mooring crowns and UHMW rotation bearings shall be new materials and are not State furnished.

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

DESIGNED BY: K. Miller
DRAWN BY: K. Miller, T. Mores
CHECKED BY: J. Beedle
5/15/05

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
S.E. REGION DESIGN & ENGINEERING SERVICES DIVISION

Coffman Cove Ferry Terminal
Project 67844

(State Furnished) Floating Fender and Riser Details

PATH: Q:\Pw\67844\st\Tsheet\83 FLOATING FENDER AND RISER DETAILS.DWG
PLOT: PSPACE 1=1 Thu, 24-Feb-05 08:45AM

REVISIONS NO	DATE	DESCRIPTION	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			67844	2005	85	99

J Gm 2/07

General Notes

1. Alternate gangway designs and modifications to the design features indicated on the plans may be proposed. Unless otherwise approved by the Engineer, any deviations from the plans shall be sealed by licensed professional engineer in the State of Alaska.

2. Aluminum structures shall only be fabricated by experienced personnel who have documented experience on the manufacture of not less than three similar structures. Unless otherwise approved by the Engineer, all aluminum fabrication shall be undertaken within a covered and heated shop environment.

3. All aluminum materials shall be alloy 6061-T6 unless otherwise noted or approved by the Engineer. All welding shall be performed in strict accordance with AWS D1.2 and the applicable welding provisions contained in the Aluminum Design Manual by certified structural welders. Also see specifications.

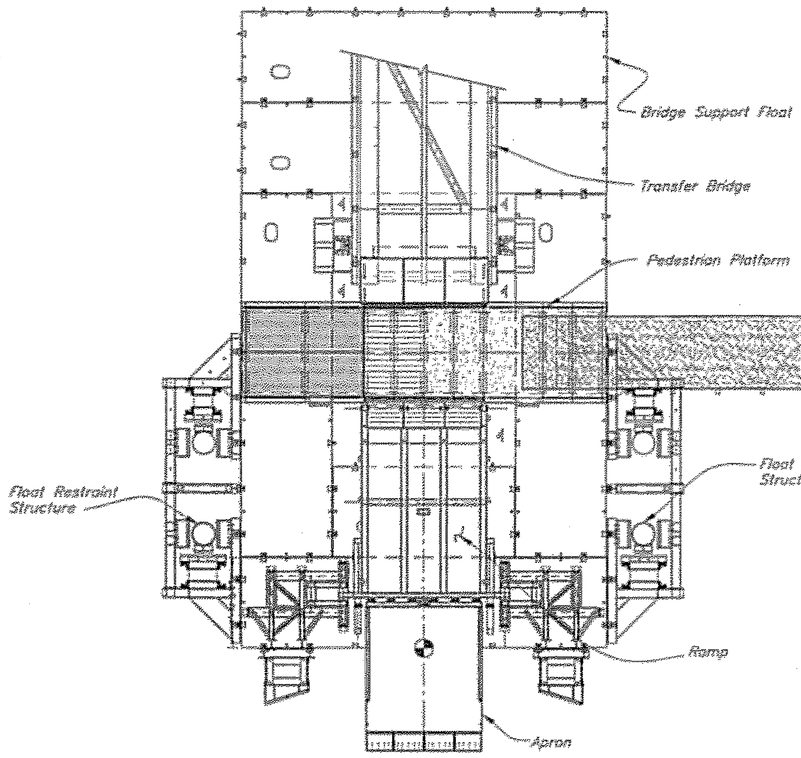
4. The steel trestle shall be hot-dip galvanized after fabrication. The structure shall be fabricated in as large as sections as practical for hot-dip galvanizing and spliced. The awning roof frame may be fabricated and hot-dip galvanized separately. Any splices in the primary chord or web members shall be designed by the steel fabricator to withstand the full structural strength of the cut member. Splices at the mid-span of bottom chord members shall be avoided. All damaged galvanized coatings shall be repaired by the hot-stick repair method as outlined in the Specifications.

5. Fabric coverings shall be constructed of UV resistant, coated nylon fabric ,with minimum weight of 16 ounces per square foot, "Herculite" brand or approved equal. Unless otherwise approved, color shall be dark blue. Also see specifications.

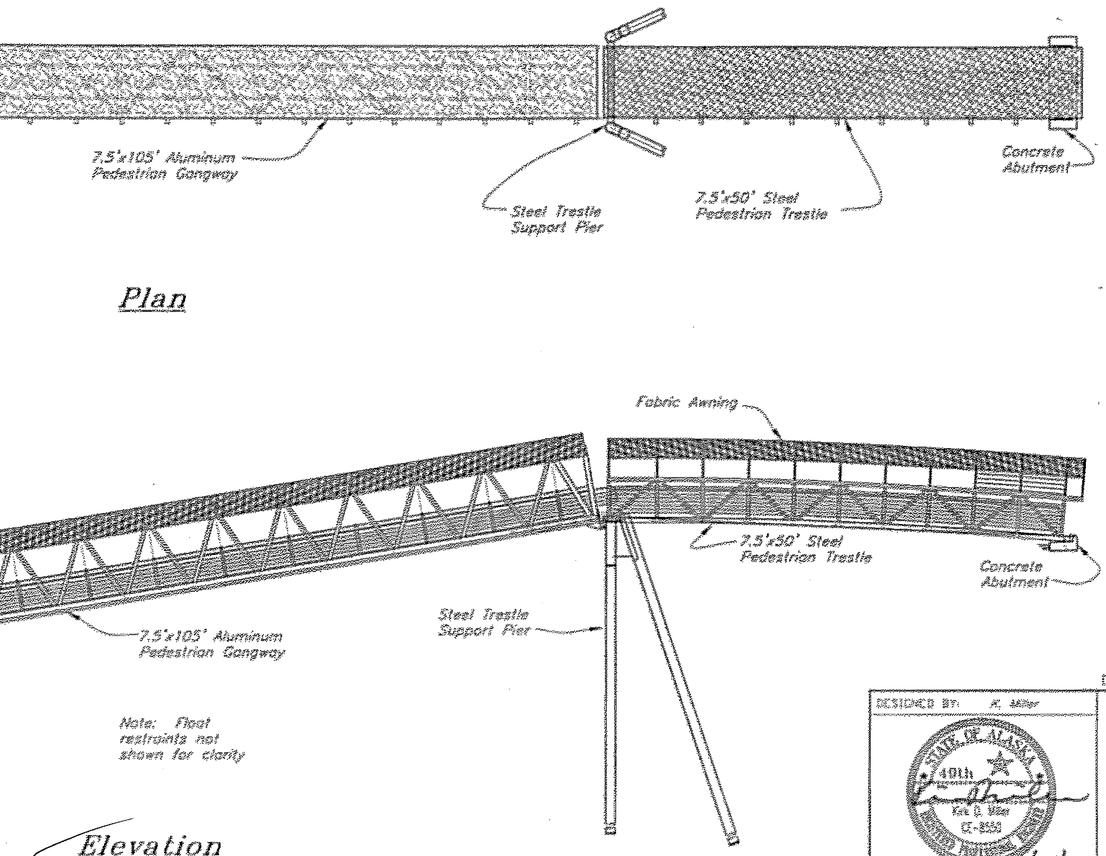
6. Fabric awning attachment details shown may be modified as may be recommended by the fabric manufacturer and approved by the Engineer. Awning fabric shall be custom fabricated to fit the finished structure and shall fit tightly with no loose folds or creases.

7. Fiberglass decking materials shall be a T-bar series wide-flange pedestrian grating comprised of pultruded polyester or vinyl ester resin shape system such as "Safe-T-Walk, Item No. STW-2510" or approved equal. Bearing bars shall be a minimum of 1-inch in height by 1.5-inches in width (top flange) and have a maximum clear opening of 0.5-inches. The top flange of the bearing bars shall be equipped with a heavy-duty, non-skid surface. Color shall be black or gray. The decking shall be capable of supporting a uniform live load of 200 psf with a maximum deflection of 0.25-inches at the indicated span. Treat all cut ends of decking with approved resin in accordance with manufacturers recommendations. Also see specifications.

8. Secure decking to all underlying framing members with stainless steel fasteners (self tapping or in threaded holes) as generally indicated or otherwise recommended by the decking manufacturer and approved by the Engineer.



Plan



Elevation
(looking from Ramp toward Transfer Bridge)

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

DESIGNED BY: K. Miller
DRAWN BY: C. Fuhrman
CHECKED BY: R. Sawtelle

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
S.E. REGION DESIGN & ENGINEERING SERVICES DIVISION

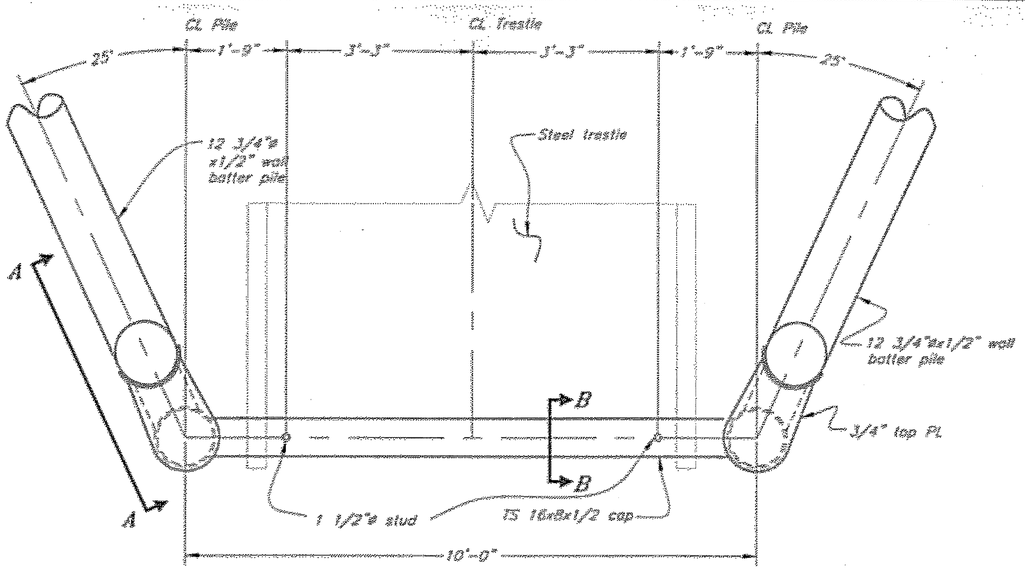
Coffman Cove Ferry Terminal
Project 67844

Pedestrian Trestle & Gangway Layout

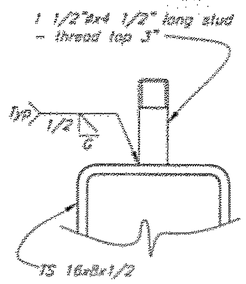
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Thu, 24/Feb/05 08:43AM

REVISIONS			PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
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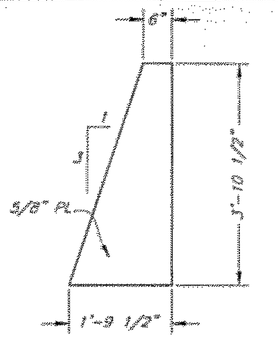
✓ gm 2/07



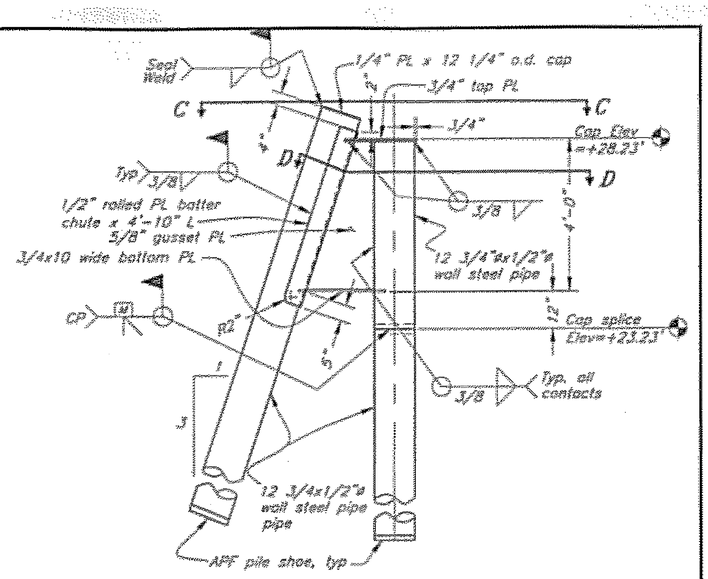
Trestle Support Plan



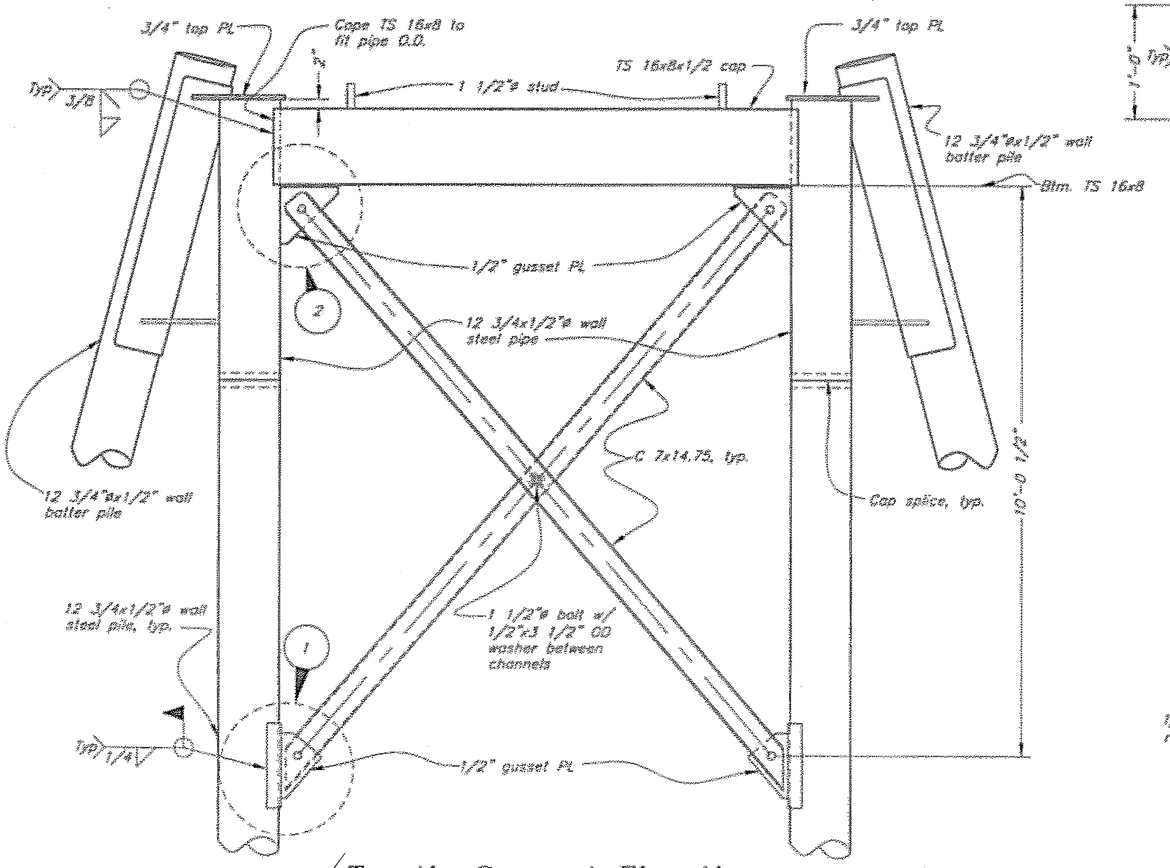
Section B-B



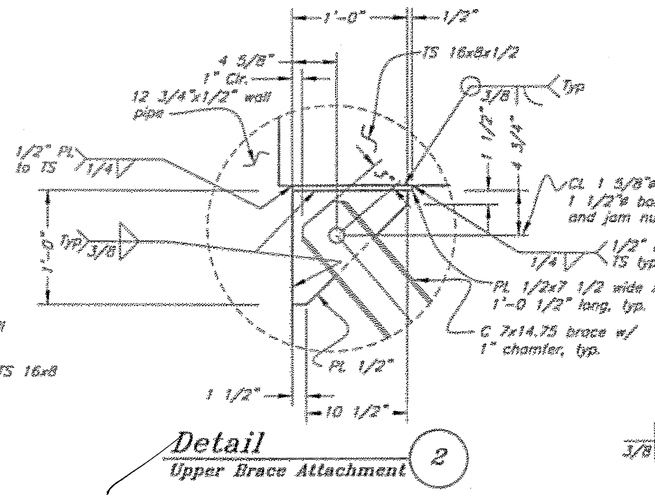
Gusset PL



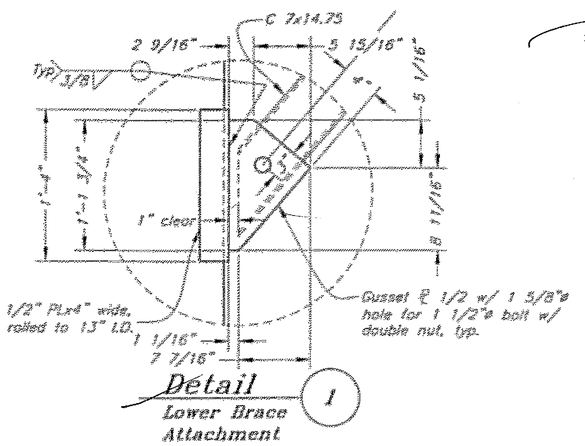
Section A-A



Trestle Support Elevation



Detail Upper Brace Attachment 2



Detail Lower Brace Attachment 1

Section C-C

Section D-D

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DESIGNED BY: K. Miller
DRAWN BY: C. Furman
CHECKED BY: B. Sawtelle

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
S.E. REGION DESIGN & ENGINEERING SERVICES DIVISION

Coffman Cove Ferry Terminal
Project 67844

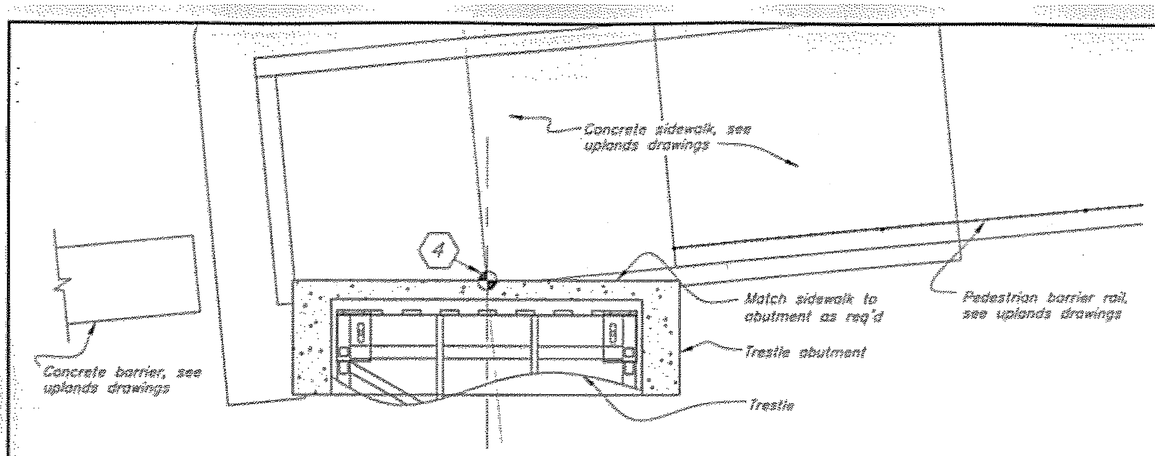
Trestle Support

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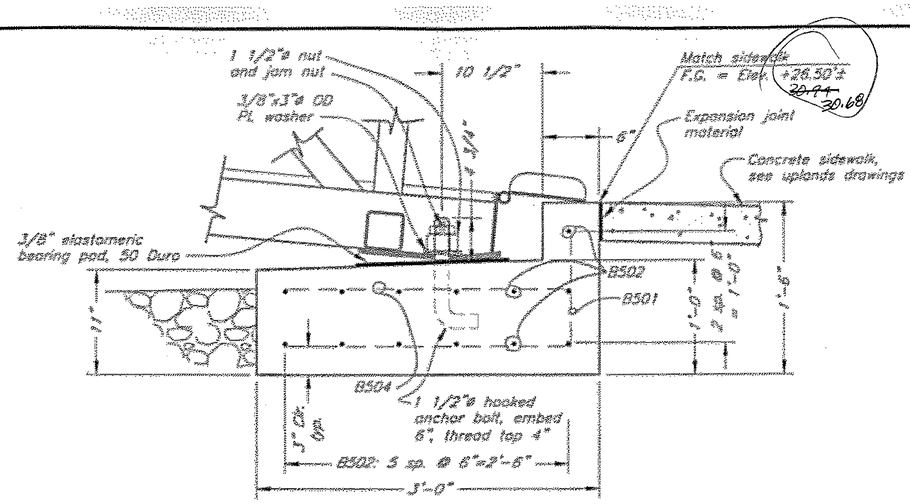
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PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
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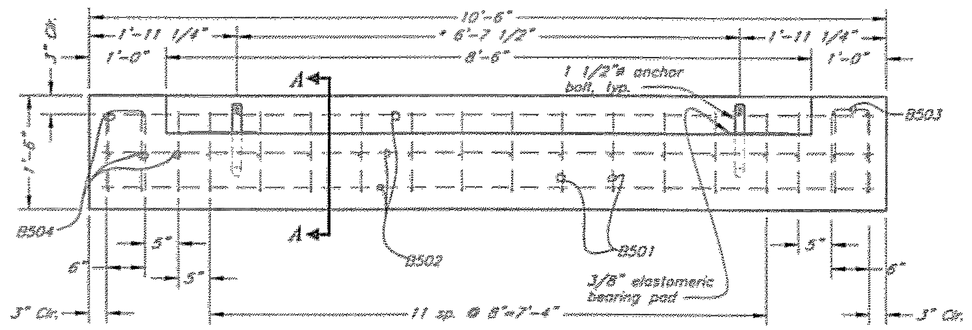
2107



Trestle Abutment Site Plan



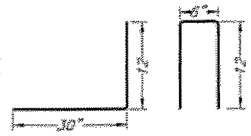
Section A-A



Abutment Elevation

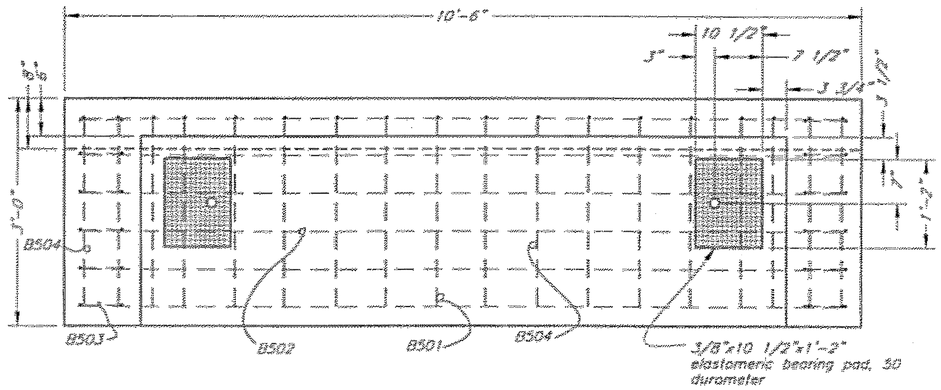
* Field verify to match pedestrian trestle

ABUTMENT REINFORCING STEEL				
MARK	SIZE	NO.	LENGTH	TYPE
B501	5	18	3'-6"	BENT
B502	5	11	10'-0"	
B503	5	12	2'-8"	BENT
B504	5	22	2'-6"	



B501 B503

BENDING DIAGRAMS



Abutment Plan

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DESIGNED BY: K. Miller
DRAWN BY: C. Simon
CHECKED BY: K. Miller
PATH: O:\Pow\67844\MF\Pioneer\88 Trestle Abutment.dwg
PLOT: PSPACE 1=1 Thu, 24/Feb/05 09:13AM

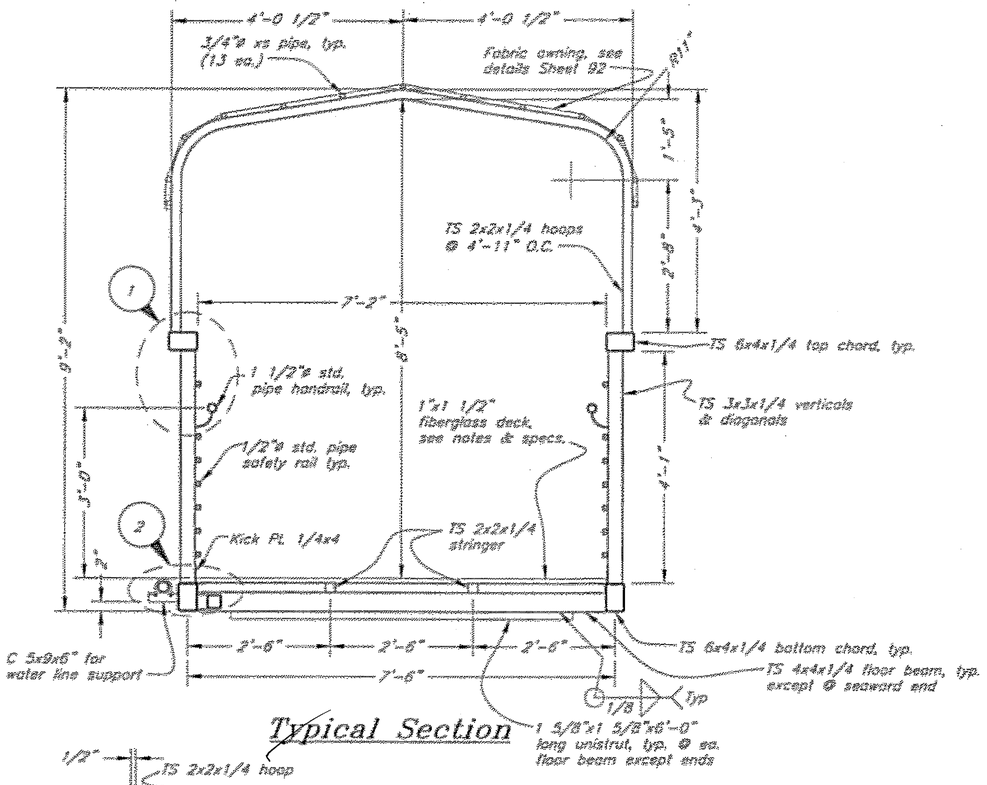
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
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Coffman Cove Ferry Terminal
Project 67844

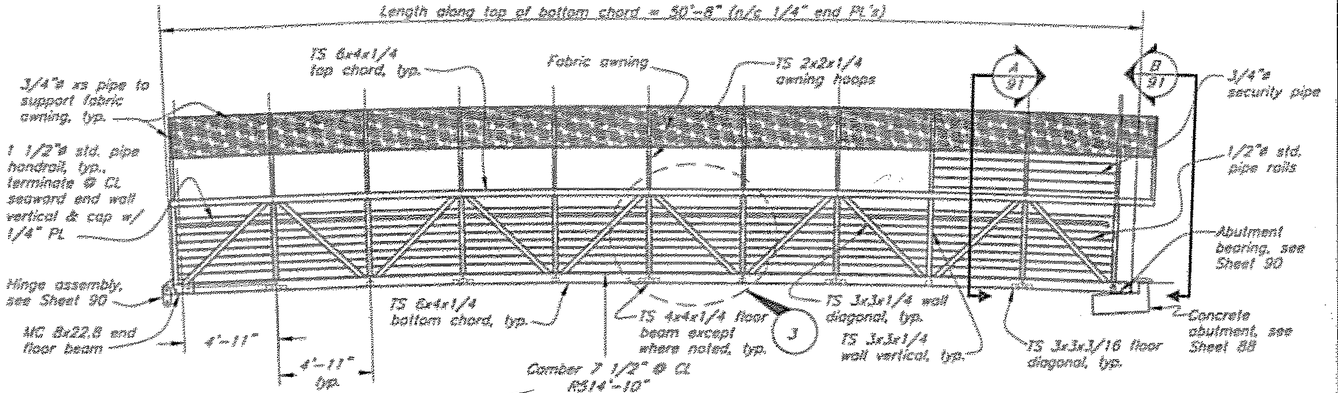
Pedestrian Trestle Concrete Abutment

REVISIONS NO.	DATE	DESCRIPTION	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
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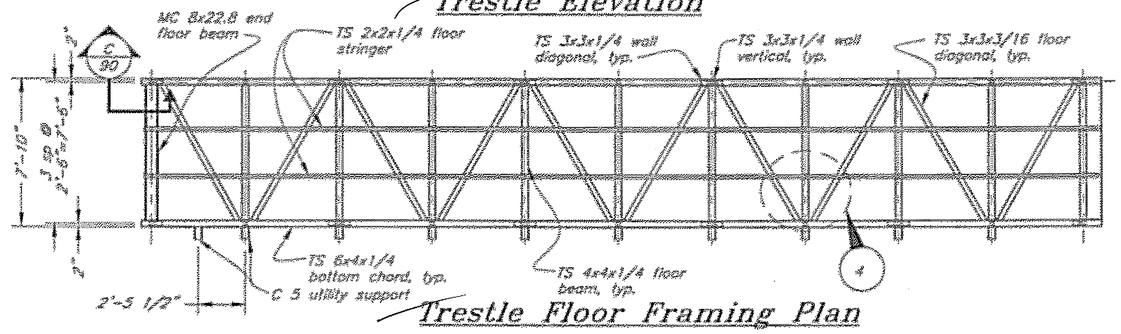
V KB 2/07



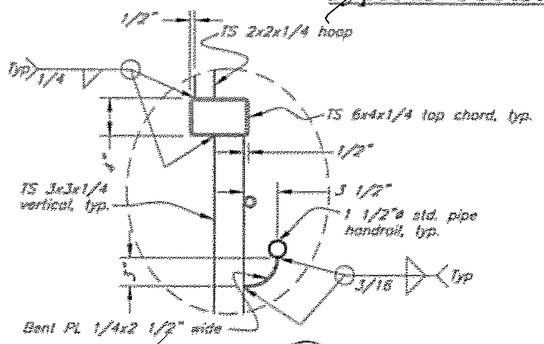
Typical Section



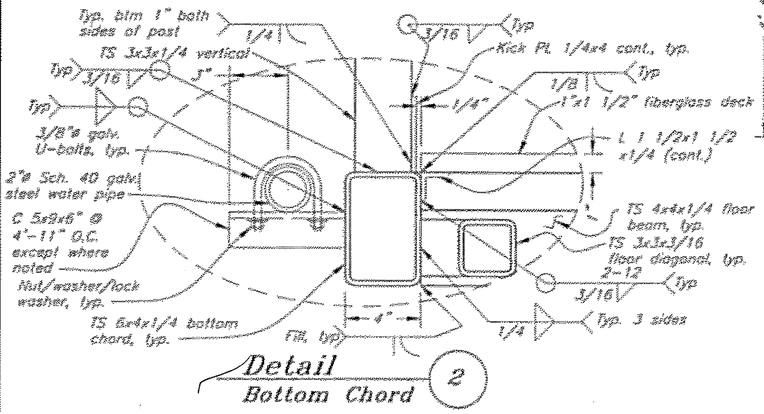
Trestle Elevation



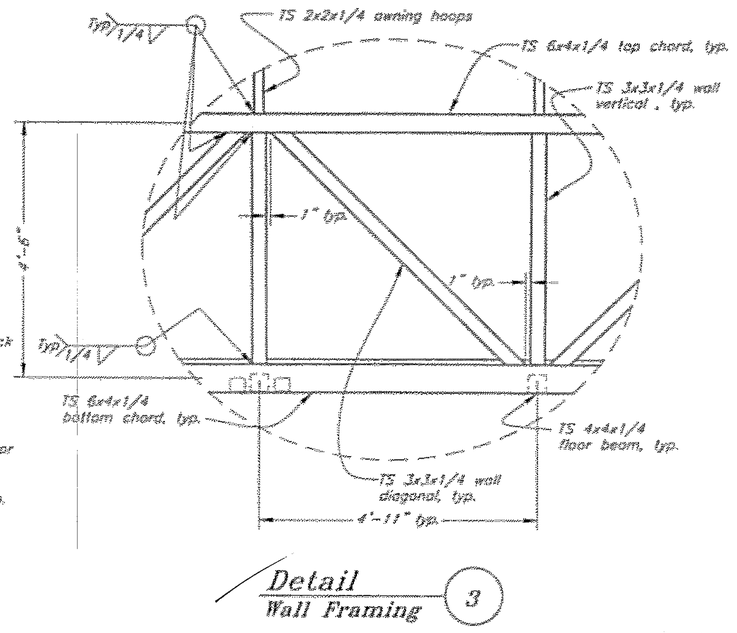
Trestle Floor Framing Plan



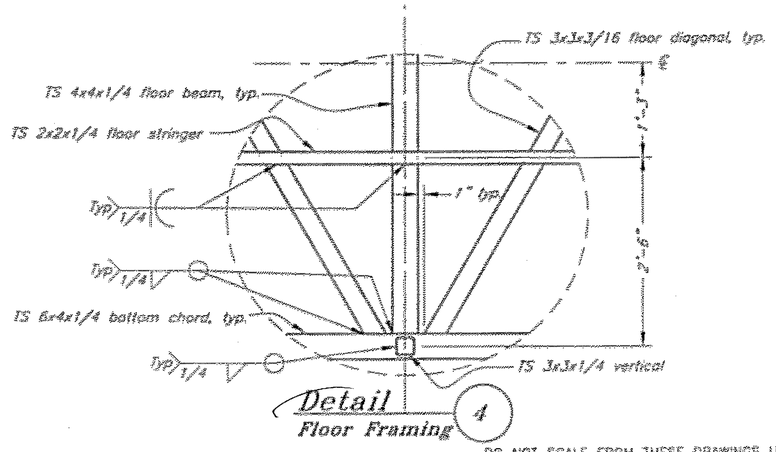
Detail Top Chord 1



Detail Bottom Chord 2



Detail Wall Framing 3



Detail Floor Framing 4

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DESIGNED BY: K. Miller
DRAWN BY: C. Turner
CHECKED BY: B. Sandvik

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
S.E. REGION DESIGN & ENGINEERING SERVICES DIVISION

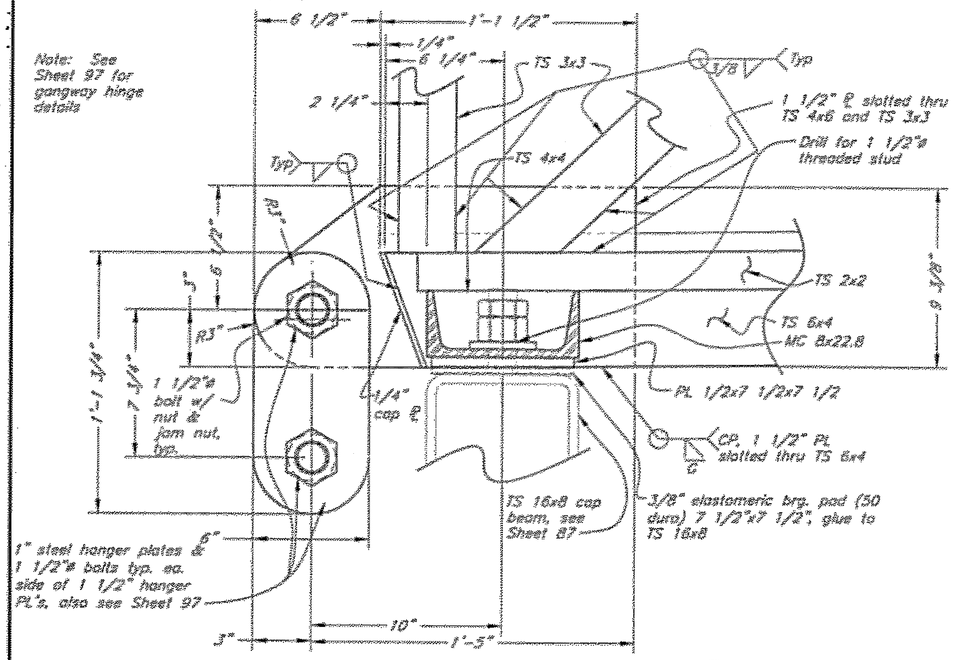
Coffman Cove Ferry Terminal
Project 67844

7'-6" x 50'-8"
Steel Trestle

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PLOT: PSPACE 1=1
Thu, 24-Feb-05 08:37AM

REVISIONS NO.	DATE	DESCRIPTION	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
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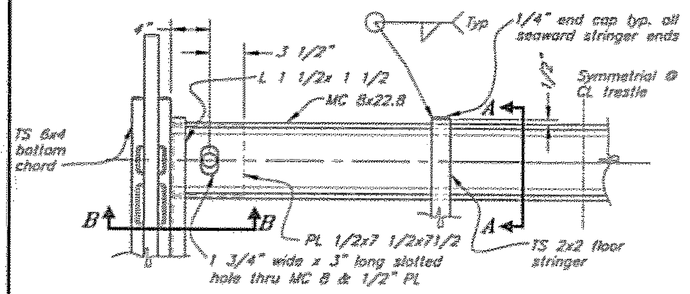
✓ 2/07



Section

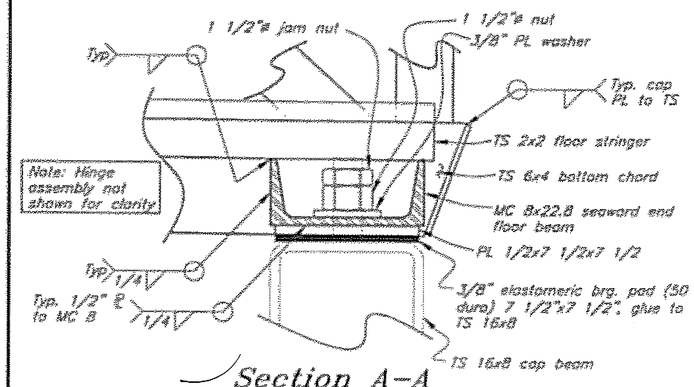
Trestle Support & Hinge Assembly Seaward End

C / 89

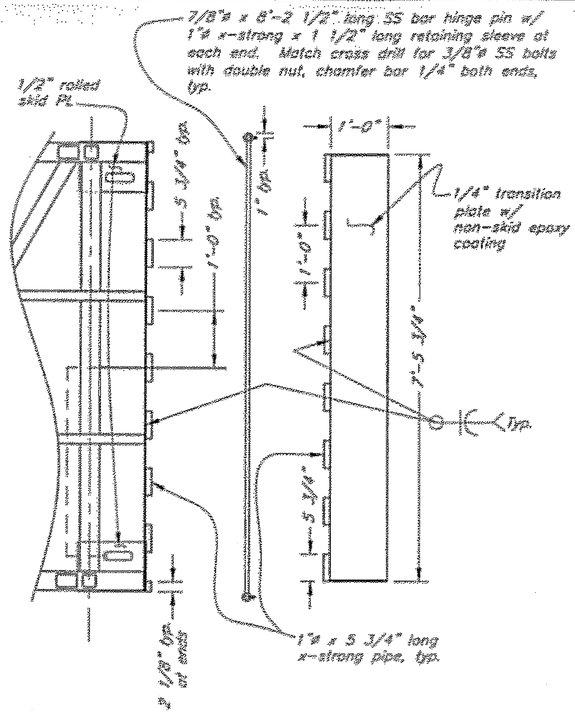


Trestle Bearings Plan

Seaward End

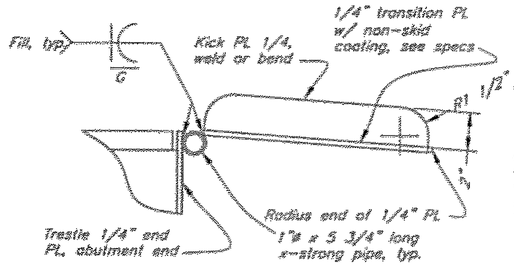


Section A-A

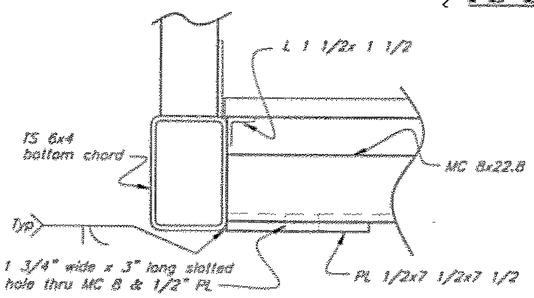


Trestle Transition PL Plan

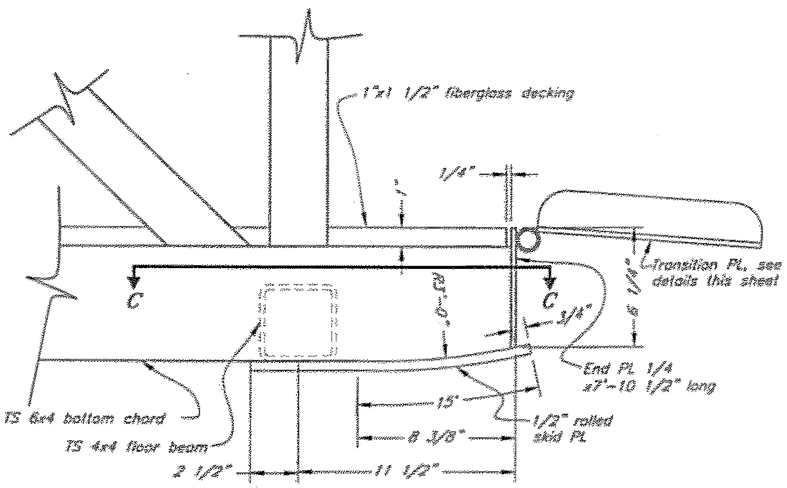
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Trestle Transition PL Elevation

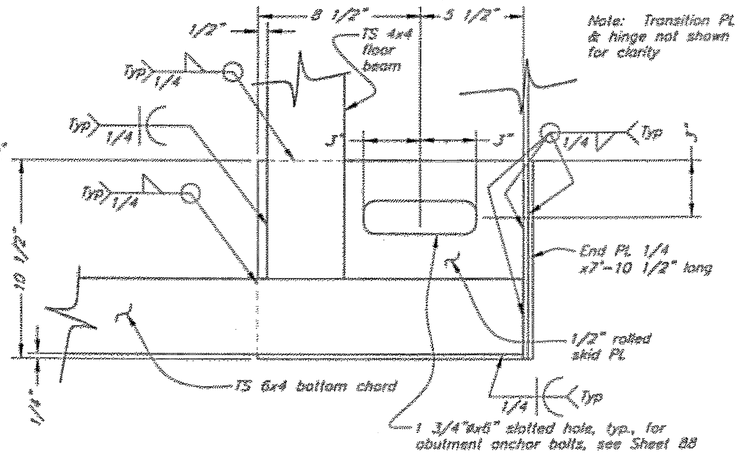


Section B-B



Trestle Abutment End Bearings

Elevation



Section C-C

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

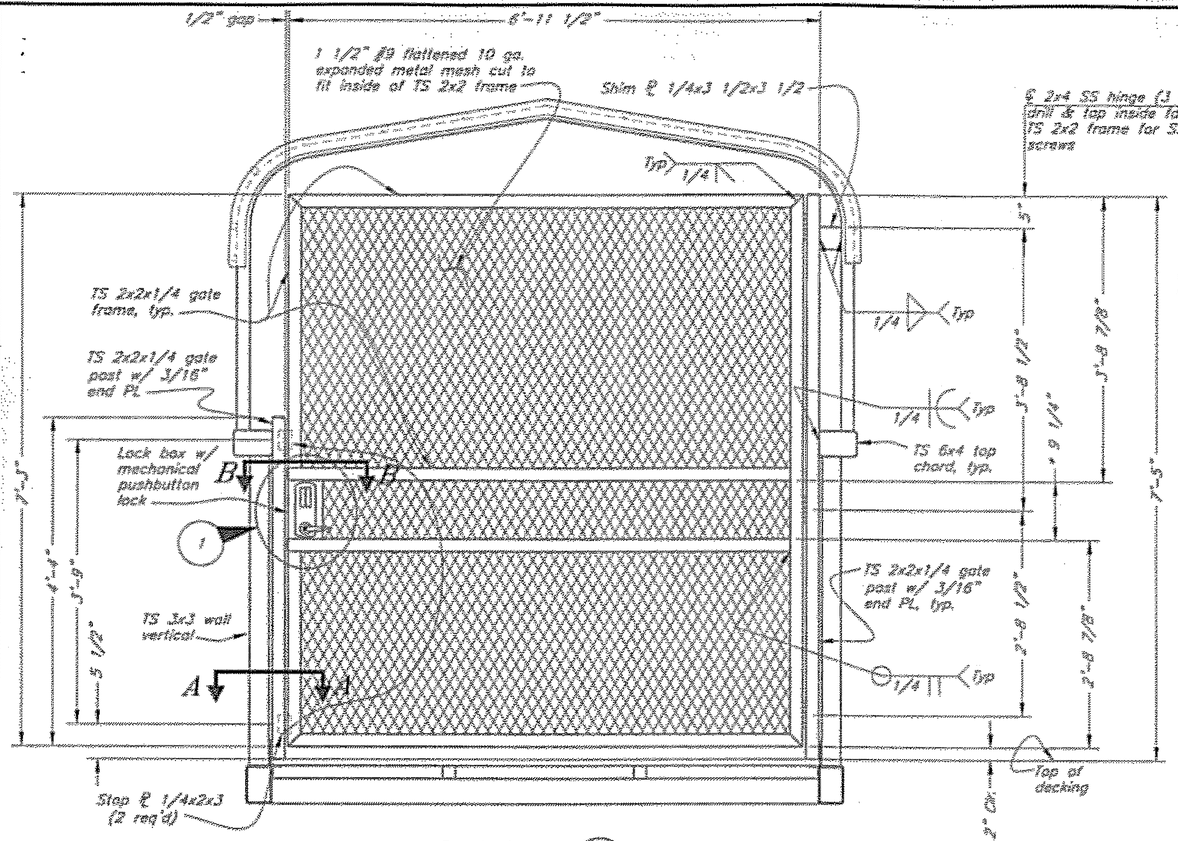
DESIGNED BY: K. Miller	STATE OF ALASKA DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES S.E. REGION DESIGN & ENGINEERING SERVICES DIVISION
CHECKED BY: B. Sanders	Coffman Cove Ferry Terminal Project 67844
DRAWN BY: C. Furman	**Trestle Details**

Kirk D. Miller, CE-8550, 48th, State of Alaska, Registered Professional Engineer, 3/15/05

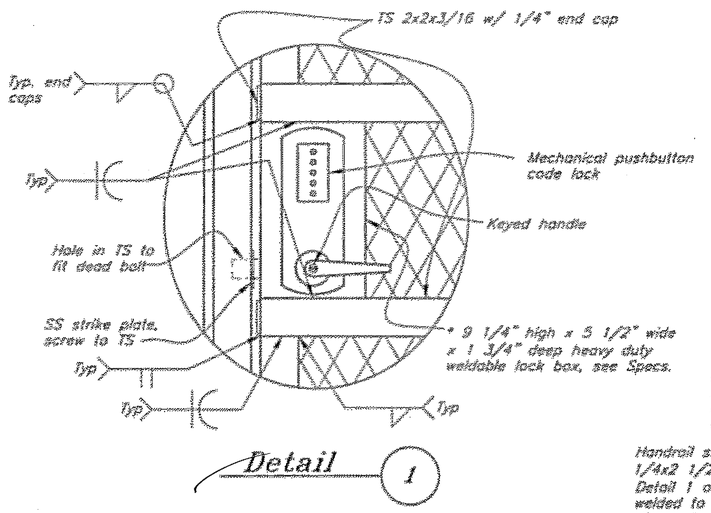
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REVISIONS NO.	DATE	DESCRIPTION	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
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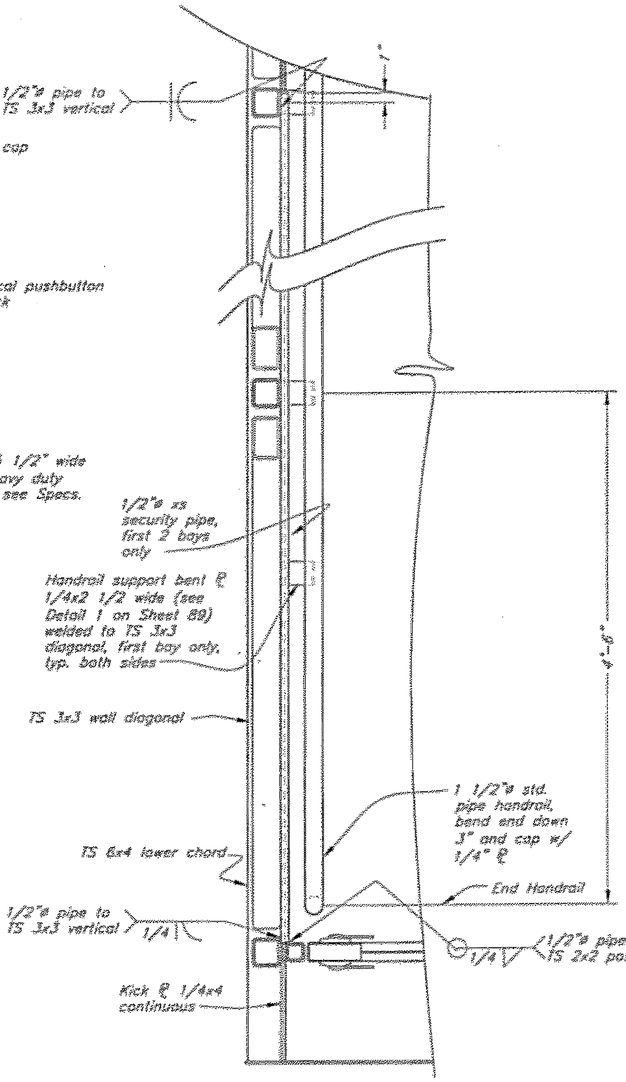
JMB 2/07



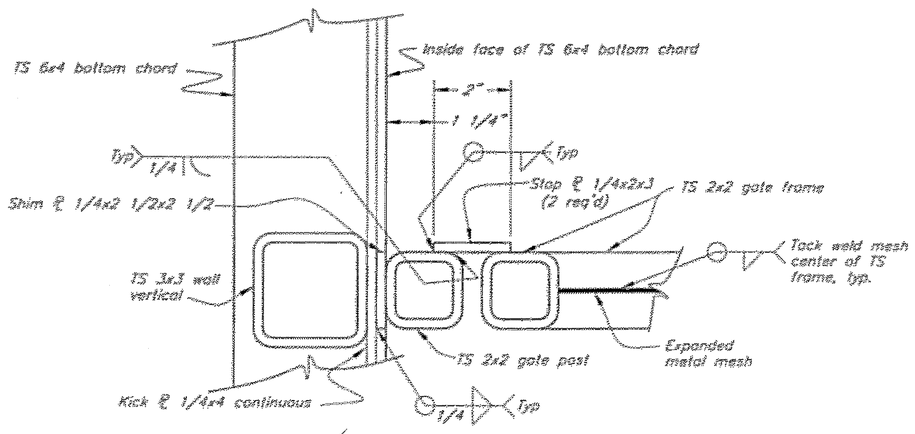
Section B / 89



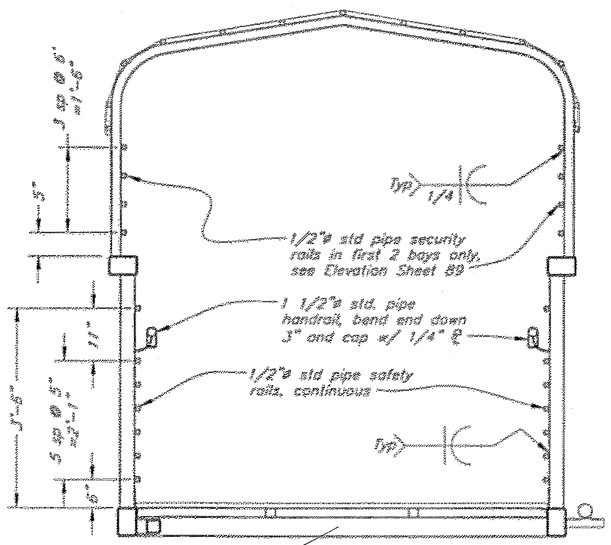
Detail 1



Section B–B



Section A–A



Section A / 89

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

DESIGNED BY: K. Miller
DRAWN BY: C. Fuman
CHECKED BY: B. Sander
PATH: O:\Pw\67844\MF\Planset\91 Trestle Security Gate.dwg
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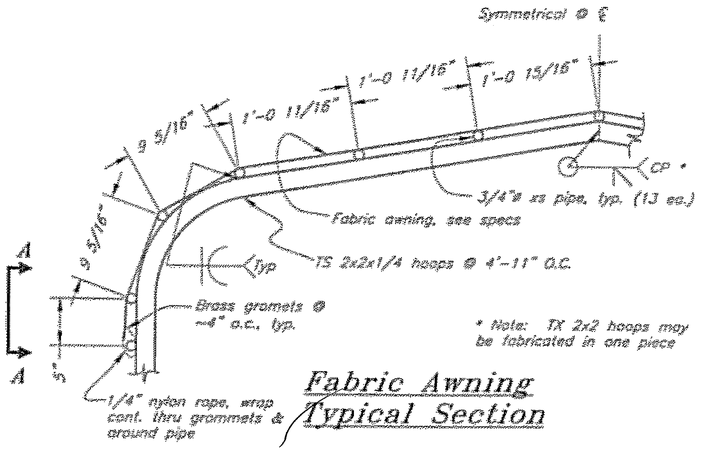
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
S.E. REGION DESIGN & ENGINEERING SERVICES DIVISION

Coffman Cove Ferry Terminal
Project 67844

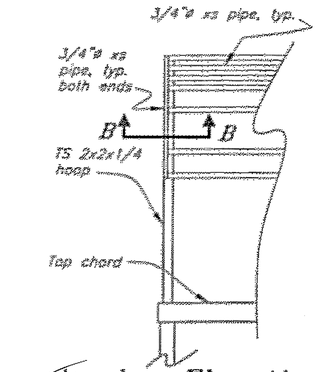
Trestle Security Gate

REVISIONS NO.	DATE	DESCRIPTION	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
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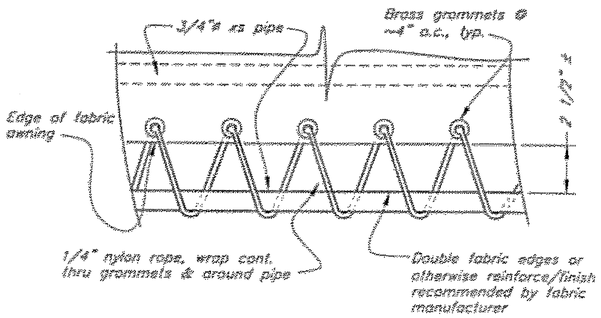
✓ MM 2/07



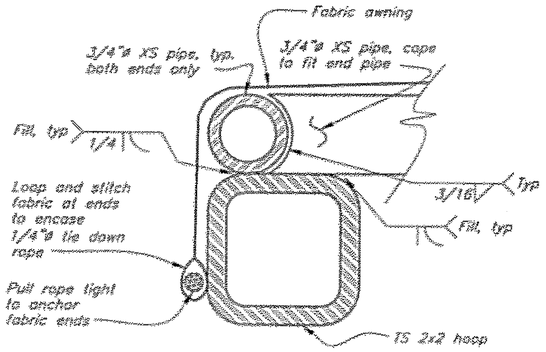
Fabric Awning Typical Section



Awning Elevation at End



Section A-A
Awning Tie-Down



Section B-B

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

DESIGNED BY: K. Miller
DRAWN BY: C. Farmer
CHECKED BY: B. Sandin

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
S.E. REGION DESIGN & ENGINEERING SERVICES DIVISION

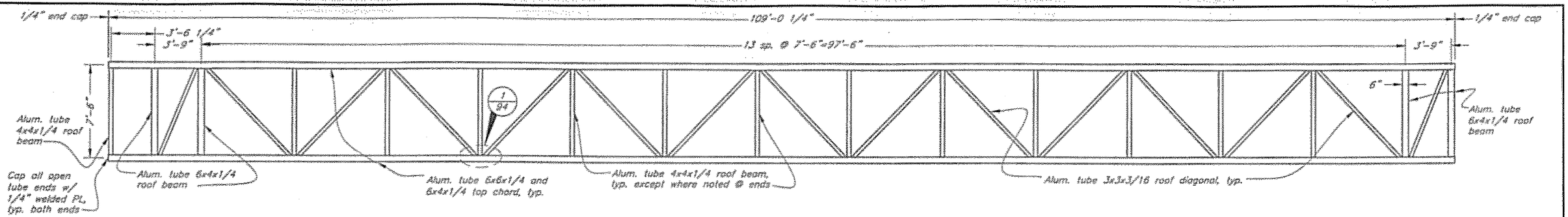
Coffman Cove Ferry Terminal
Project 67844

Trestle Awning Details

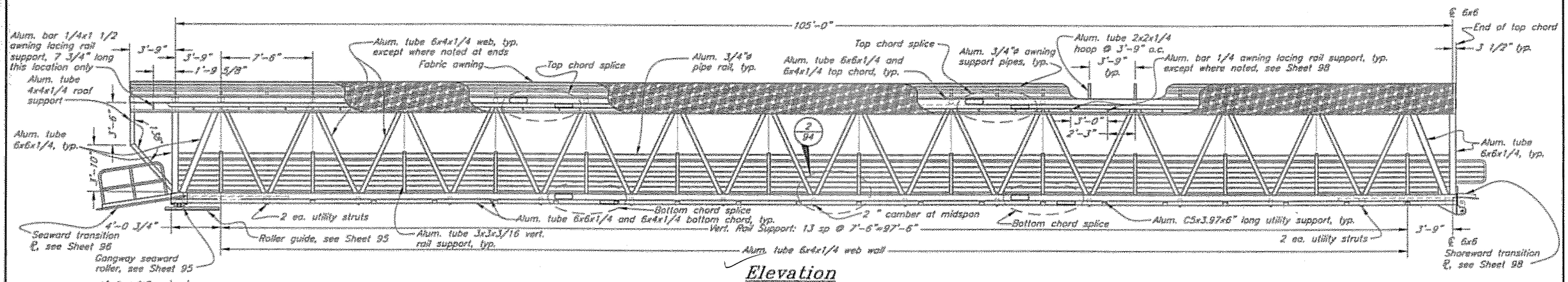
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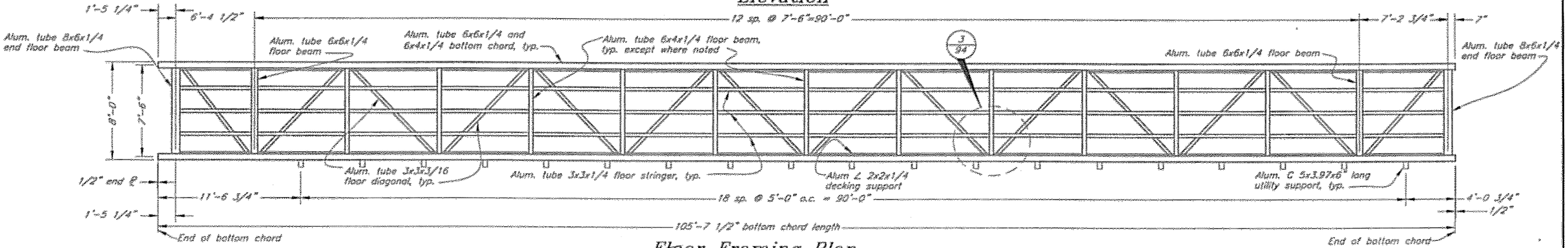
J gm 2/07



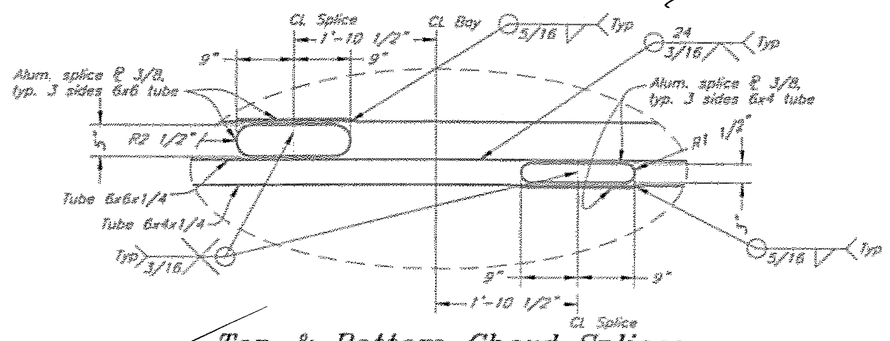
Roof Framing Plan



Elevation



Floor Framing Plan



Top & Bottom Chord Splices

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

DESIGNED BY: K. Miller

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
& PUBLIC FACILITIES
S.E. REGION DESIGN & ENGINEERING SERVICES DIVISION

STATE OF ALASKA 49th Kirk D. Miller CE-8158 REGISTERED PROFESSIONAL ENGINEER
3/5/05

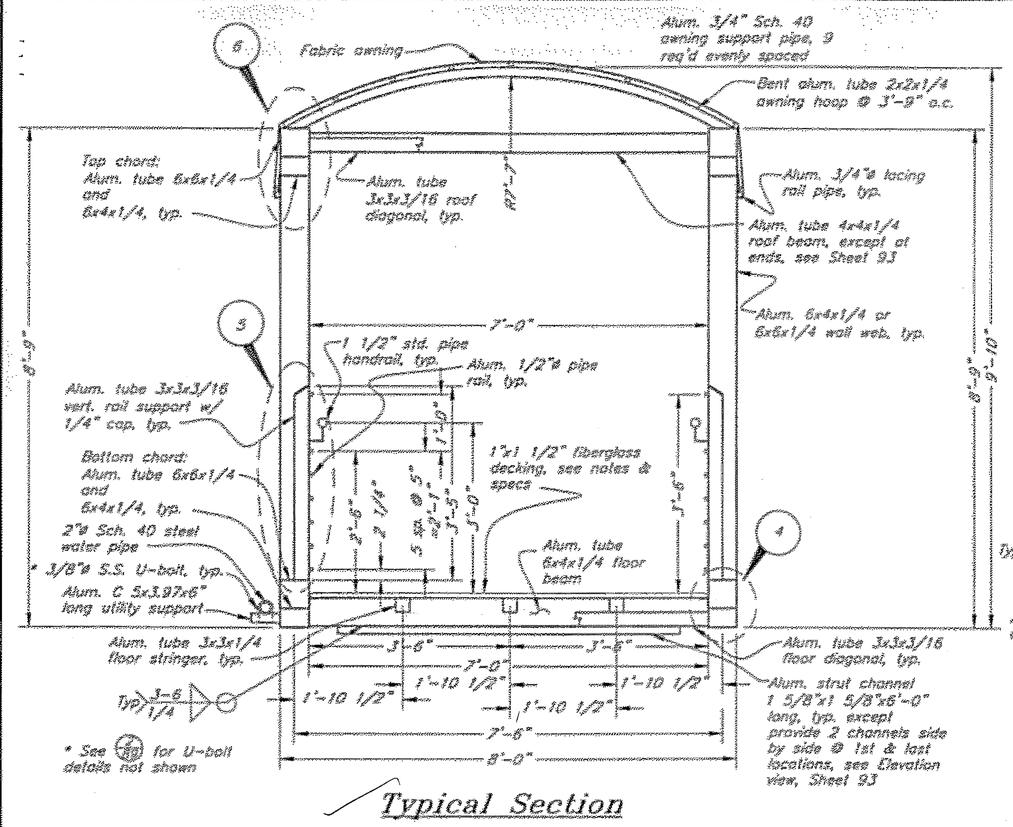
CHECKED BY: R. Sandke
DRAWN BY: C. Furman

Coffman Cove Ferry Terminal
Project 67844
7.5' x 105'
Aluminum Gangway

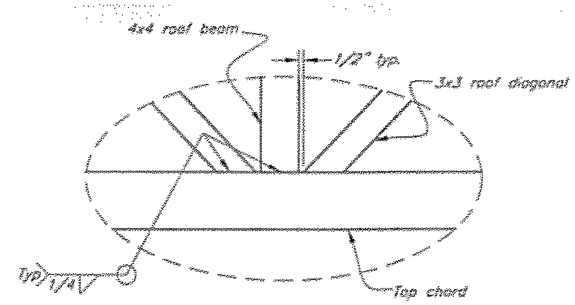
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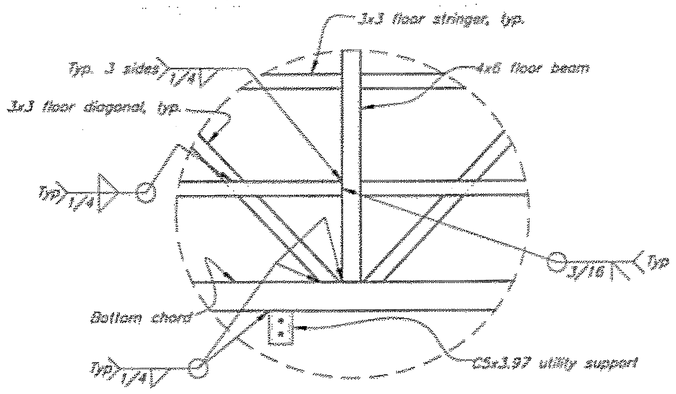
✓ GM 2/07



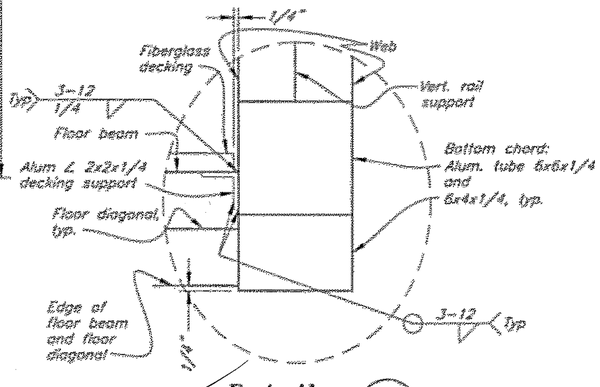
Typical Section



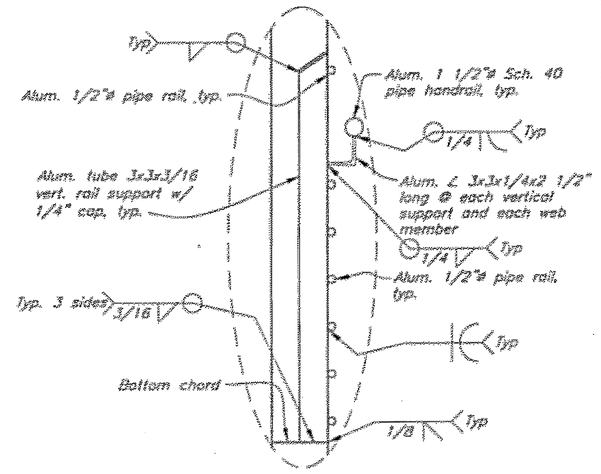
Roof Detail 1/93



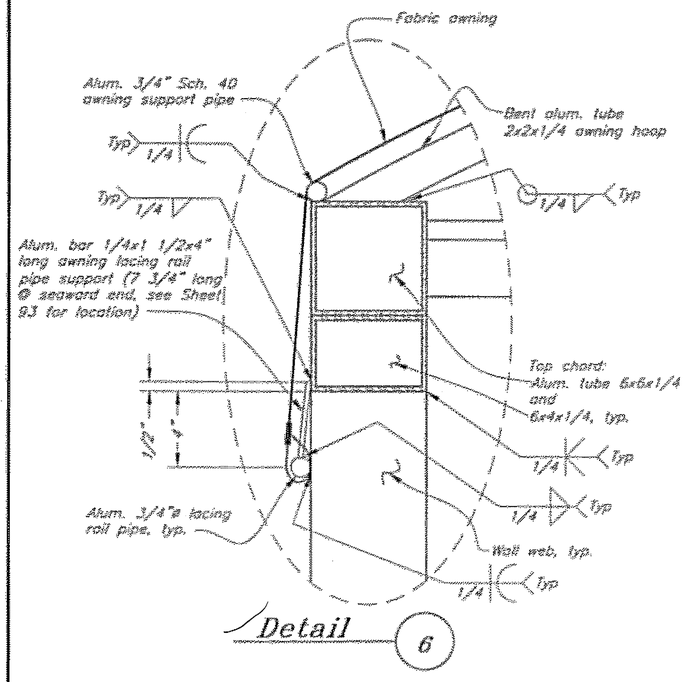
Floor Detail 3/93



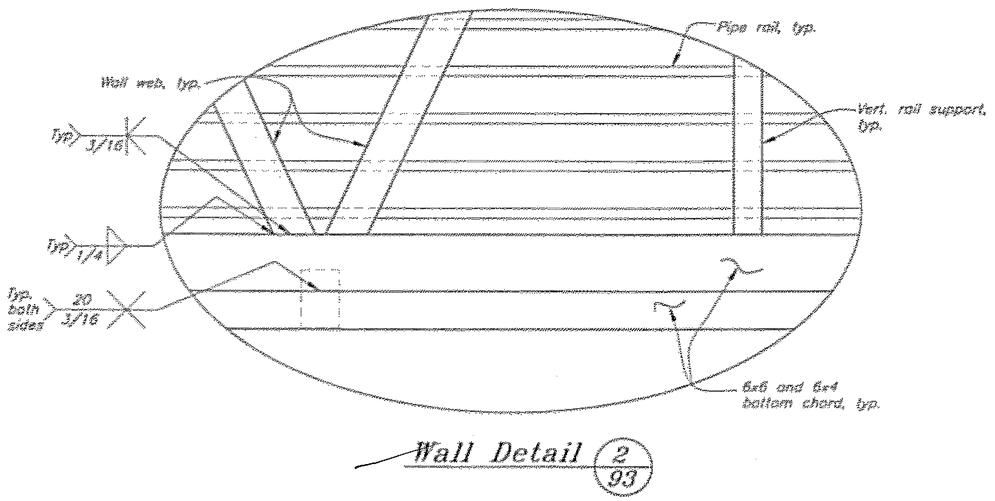
Detail 4



Rail Post Detail 5/93



Detail 6



Wall Detail 2/93

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

DESIGNED BY: K. Miller
DRAWN BY: C. Fuenzo
CHECKED BY: B. Sterling
PATH: O:\Flow\67844\MT\Planset\94 Gangway Details.dwg
PLOT: PSPACE 1=1
Thu, 24/Feb/05 08:54AM

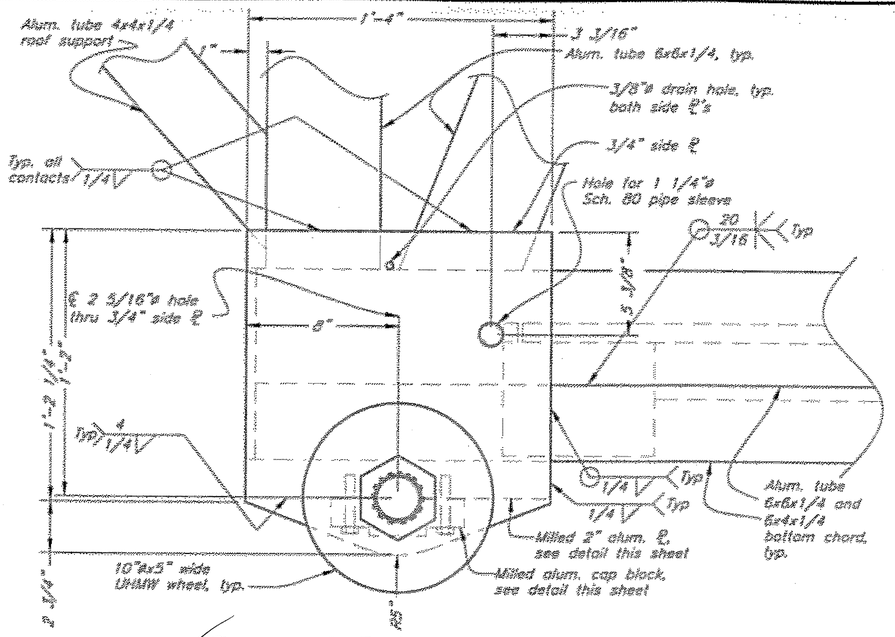
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
S.E. REGION DESIGN & ENGINEERING SERVICES DIVISION

Coffman Cove Ferry Terminal
Project 67844

7.5' x 105'
Aluminum Gangway Details

REVISIONS NO	DATE	DESCRIPTION	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
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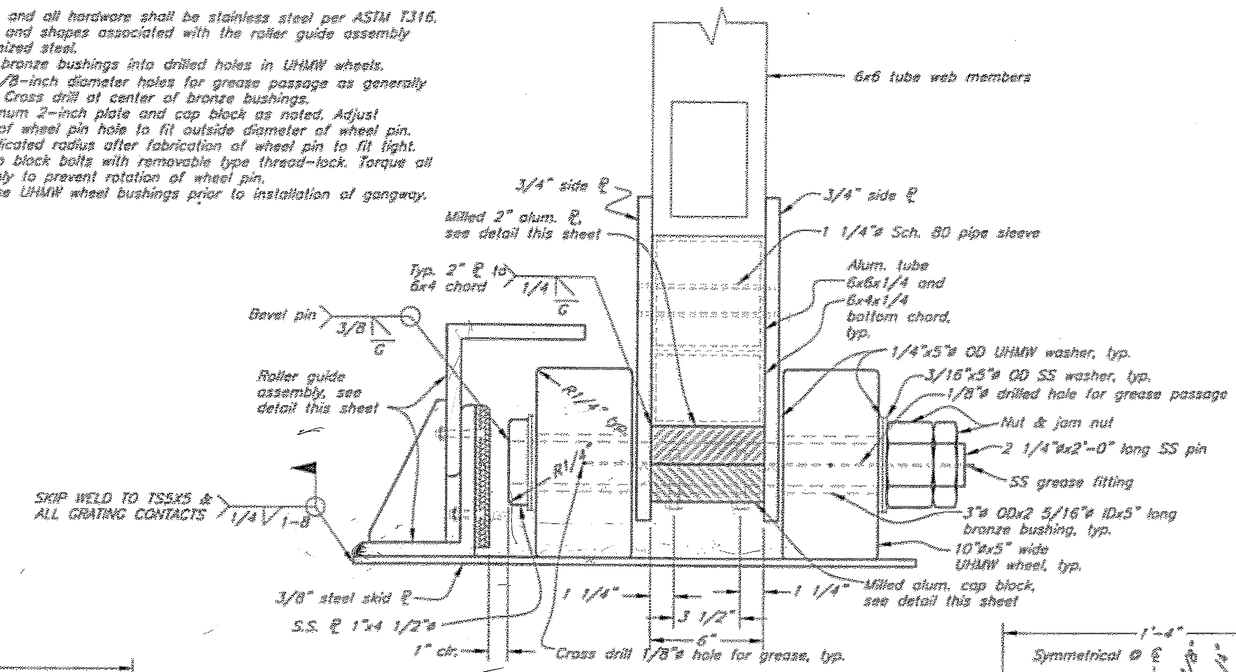
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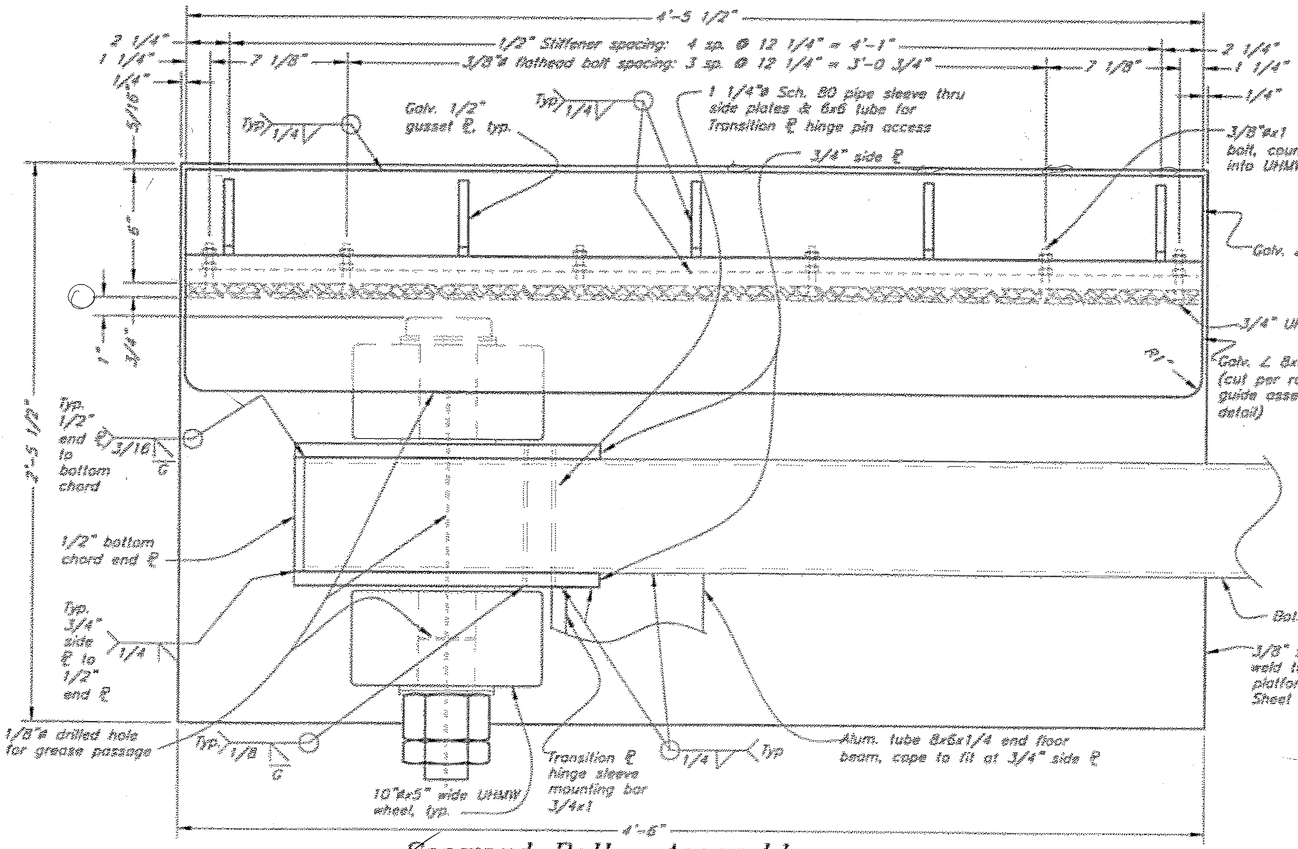
Seaward Roller Assembly
Side View

General Notes:

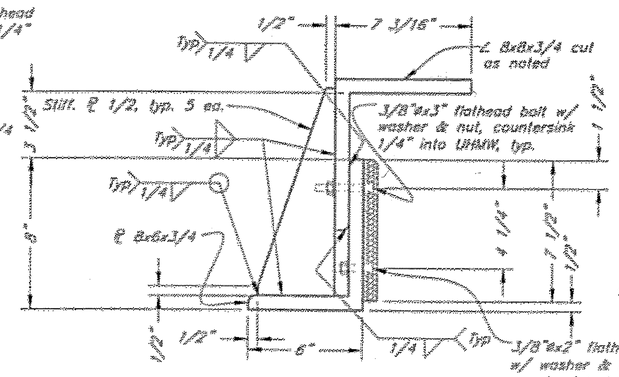
1. Wheel pin and all hardware shall be stainless steel per ASTM T316.
2. All plates and shapes associated with the roller guide assembly are galvanized steel.
3. Press fit bronze bushings into drilled holes in UHMW wheels.
4. Provide 1/8-inch diameter holes for grease passage as generally indicated. Cross drill at center of bronze bushings.
5. Mill aluminum 2-inch plate and cap block as noted. Adjust diameter of wheel pin hole to fit outside diameter of wheel pin. Adjust indicated radius after fabrication of wheel pin to fit light.
6. Install cap block bolts with removable type thread-lock. Torque all bolts evenly to prevent rotation of wheel pin.
7. Pre-grease UHMW wheel bushings prior to installation at gangway.



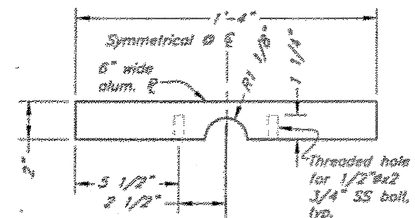
Seaward Roller Assembly
Front View



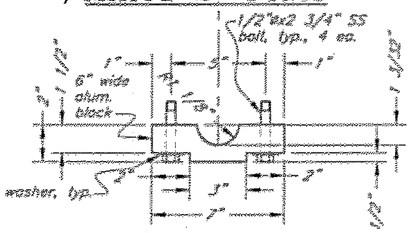
Seaward Roller Assembly
Plan View



Roller Guide Assembly



Milled 2" Plate



Milled Cap Block

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

DESIGNED BY: K. Miller
DRAWN BY: C. Fuhrer
CHECKED BY: R. Sheldon

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
S.E. REGION DESIGN & ENGINEERING SERVICES DIVISION

Coffman Cove Ferry Terminal
Project 67844

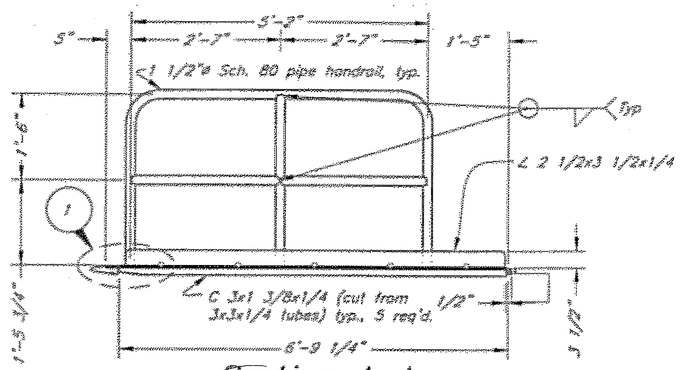
Gangway Roller Assembly - Seaward End

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Thu, 24/Feb/05 09:58AM

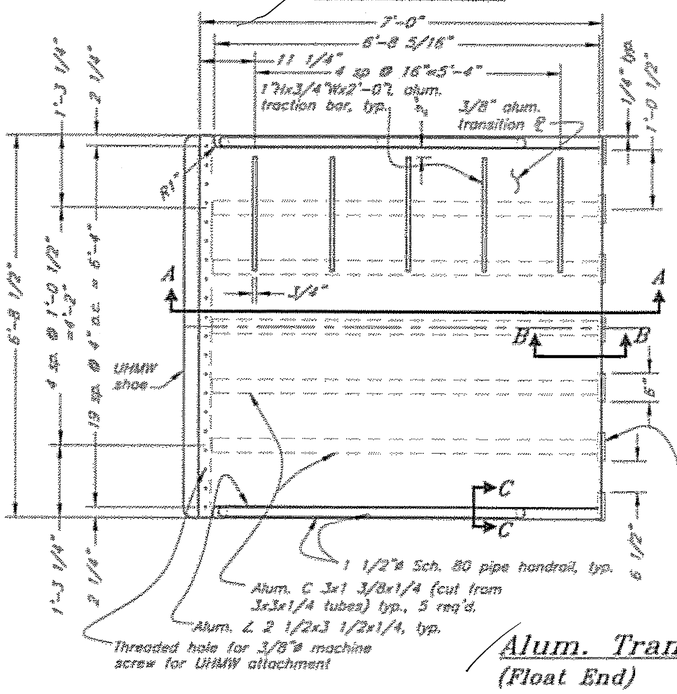
NO	DATE	REVISIONS DESCRIPTION

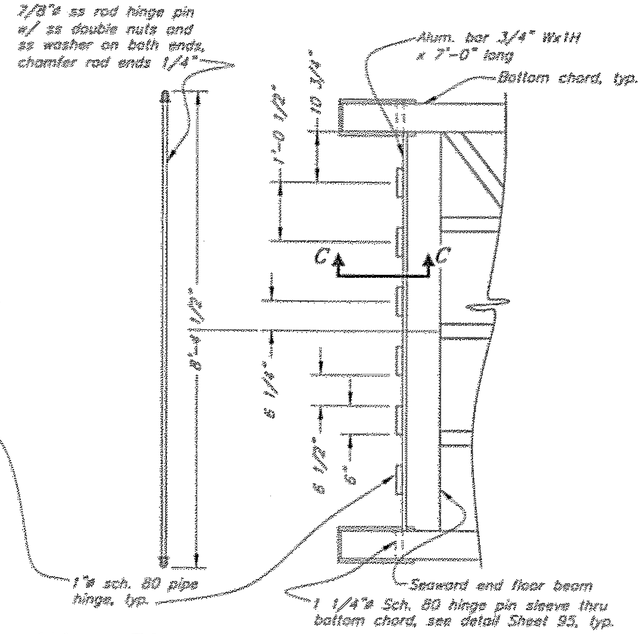
PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
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✓ MB 2/07

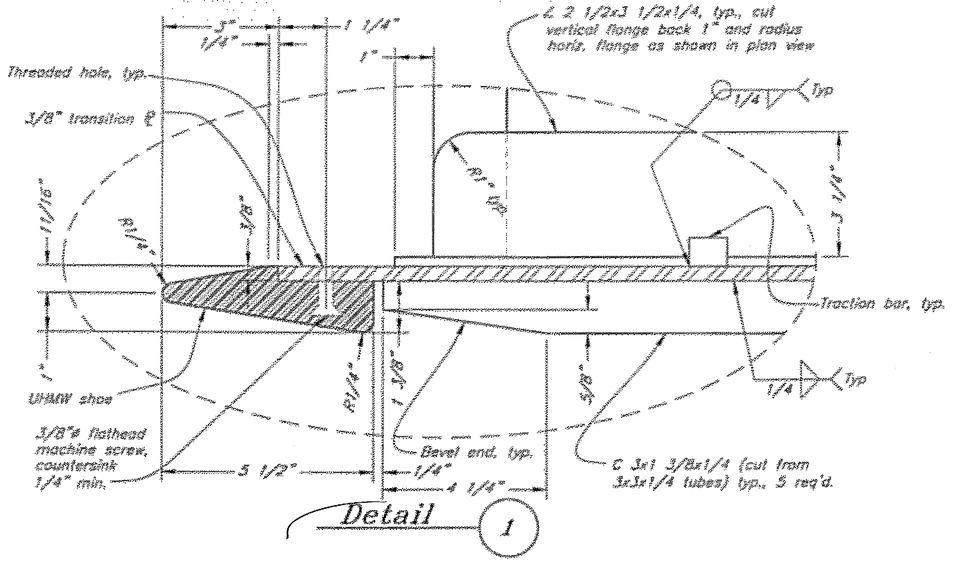


Section A–A

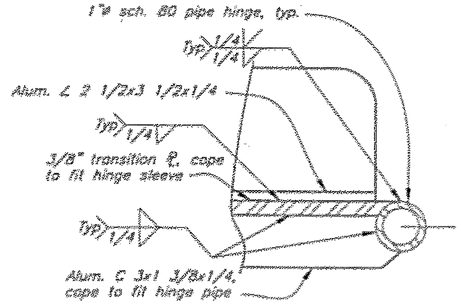




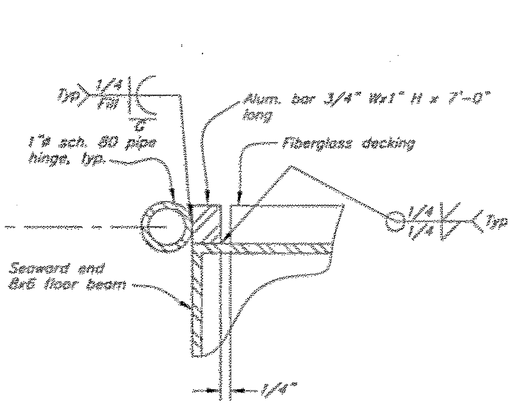
Alum. Transition PL Assembly Plan (Float End)



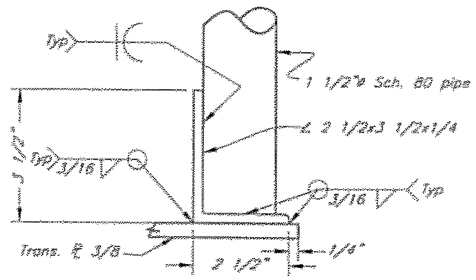
Detail 1



Section B–B



Section C–C



Section D–D

Note: All transition plate surface (including traction bars) that are exposed to traffic shall be equipped with a spray-metalized non-skid coating such as "slip-not" or approved equal.

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

DESIGNED BY: JC Miller
DRAWN BY: C. Fuman
CHECKED BY: B. Sinnitt
PATH: Q:\Pcw\67844\96\Planset\96 Gangway Seaward TR.dwg
PLOT: PSPACE 1=1
Thu, 24/Feb/05 10:00AM

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
S.E. REGION DESIGN & ENGINEERING SERVICES DIVISION

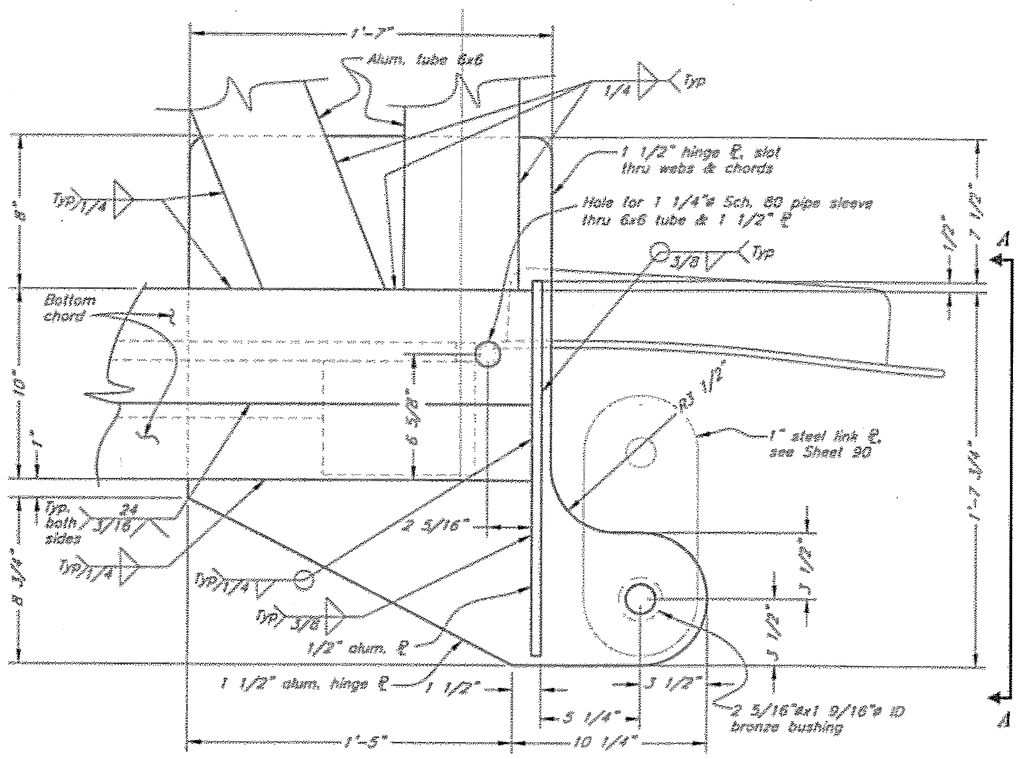
Coffman Cove Ferry Terminal
Project 67844

Gangway Transition Plate - Seaward End

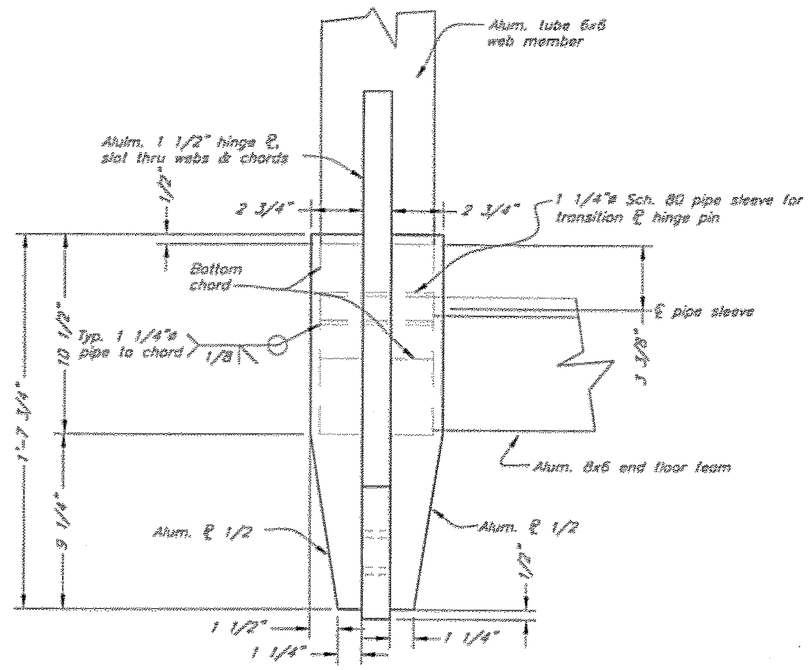
3/15/05

REVISIONS NO	DATE	DESCRIPTION	PROJECT DESIGNATION	YEAR	SHEET NO	TOTAL SHEETS
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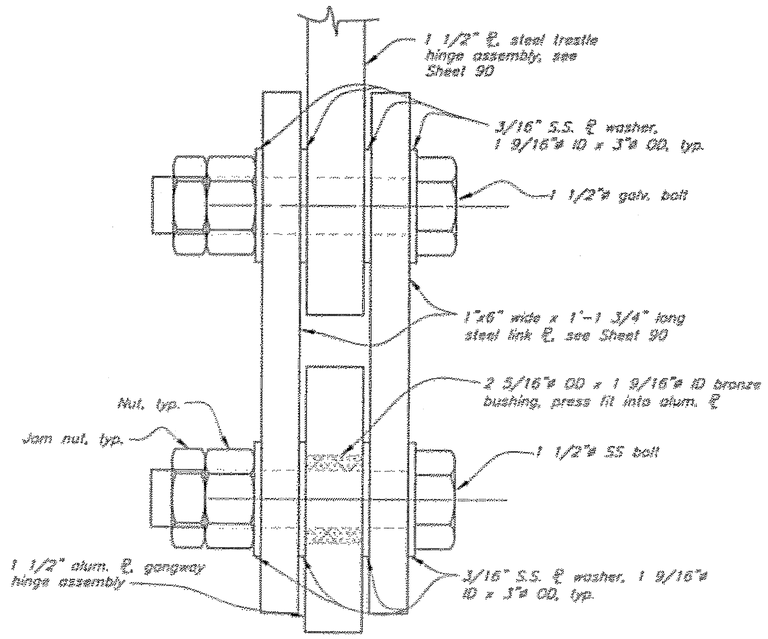
2/07



Hinge Assembly Side View



Hinge Assembly Front View



Section A-A

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

DESIGNED BY: K. Miller
DRAWN BY: C. Ramon
CHECKED BY: R. Sanders
PATH: S:\Flow\67844\all\Planset\97 Gangway Hinge.dwg
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STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
S.E. REGION DESIGN & ENGINEERING SERVICES DIVISION

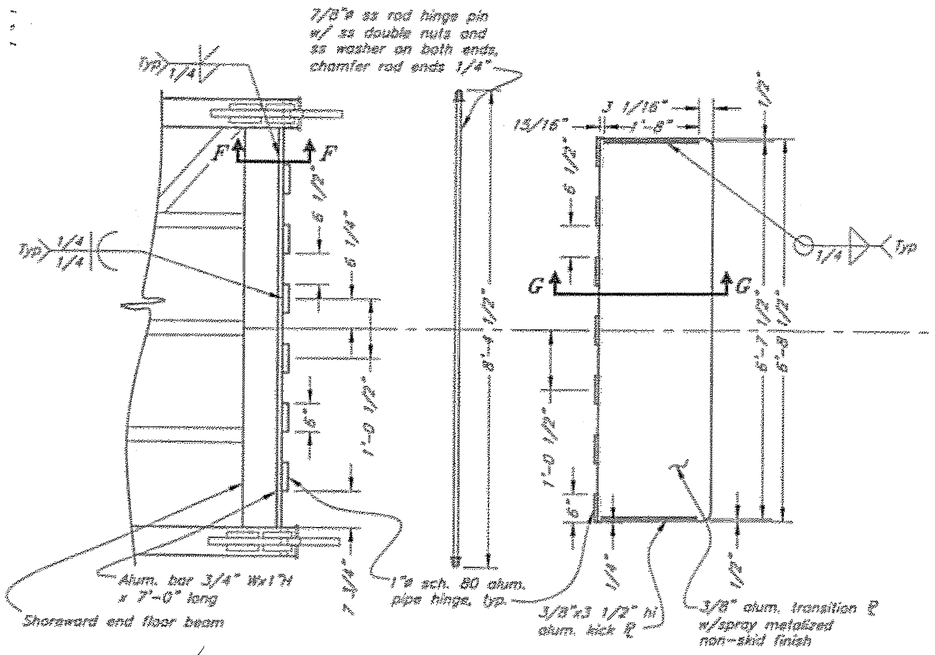
Coffman Cove Ferry Terminal
Project 67844

Gangway Hinge Assembly - Shoreward End

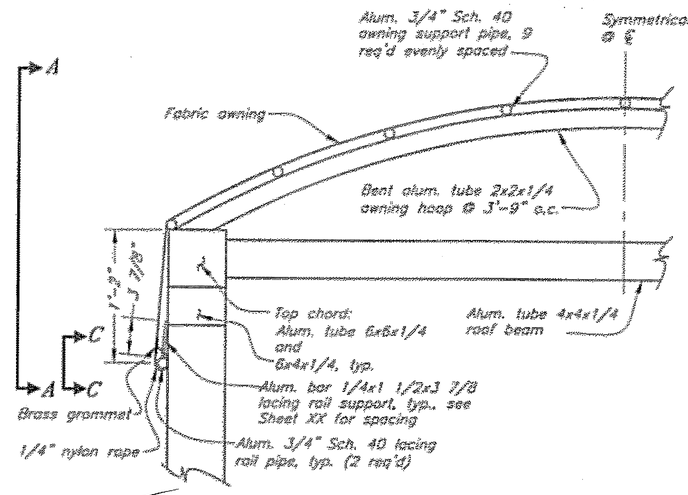
3/5/05

NO.	DATE	REVISIONS DESCRIPTION	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
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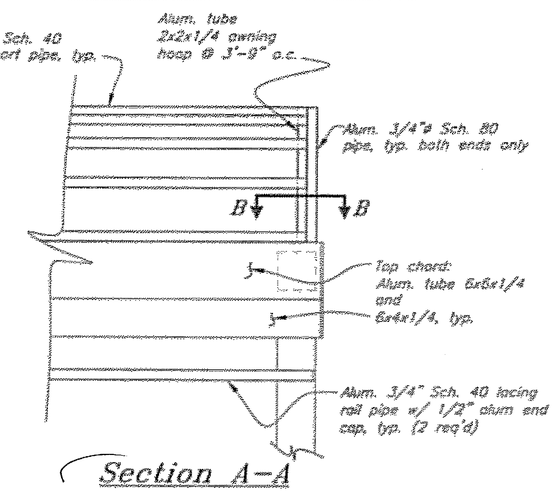
2/07



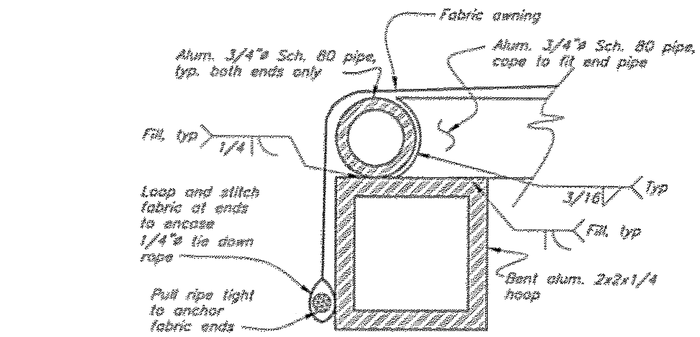
Alum. Transition PL Assembly Plan
(Shore End)



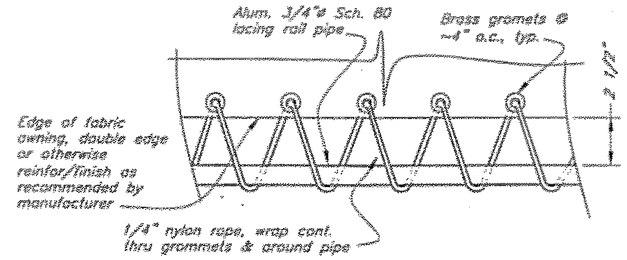
Fabric Awning Typical Section



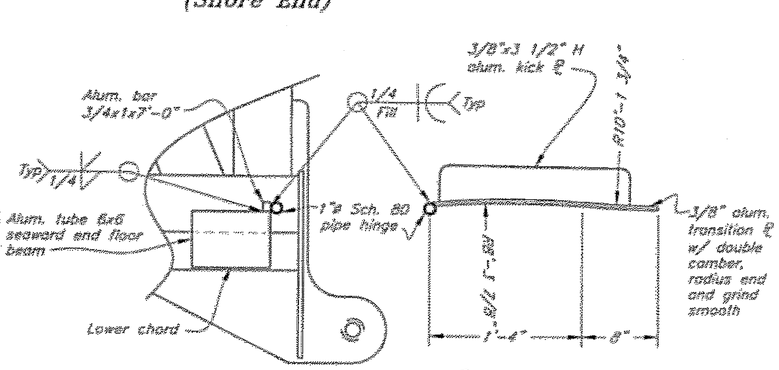
Section A-A



Section B-B

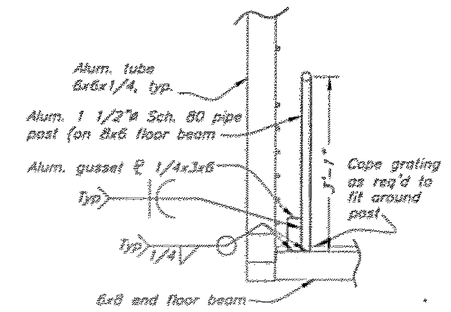


Section C-C
Awning Tie-Down

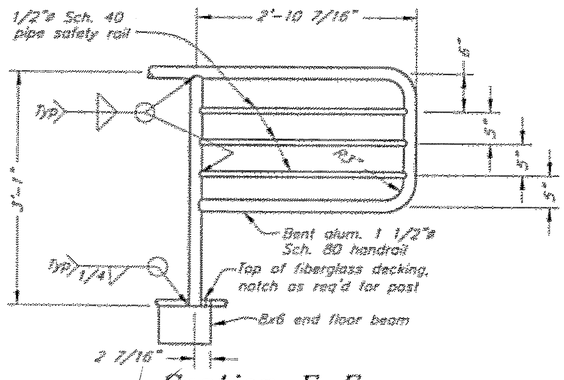


Section F-F

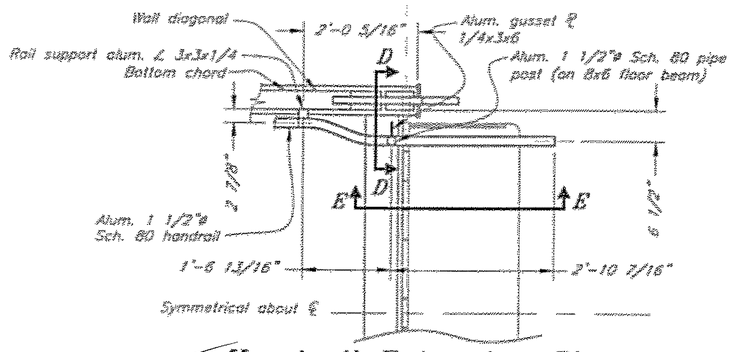
Section G-G



Section D-D



Section E-E



Handrail Extension Plan
(Shore End)

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

DESIGNED BY: K. Miller
DRAWN BY: C. Furman
CHECKED BY: R. Sandvik

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
S.E. REGION DESIGN & ENGINEERING SERVICES DIVISION

Coffman Cove Ferry Terminal
Project 67844

Fabric Cover & Shoreward End Details

PATH: G:\Pow\67844\MF\Planset\98 Company Cover & Shoreward Details.dwg
PLOT: PSPACE 1=1
Thu, 24/Feb/05 10:35AM

REVISIONS NO	DATE	DESCRIPTION	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			67844	2005	98	99

✓ GM 2/07

General Notes:

1. Anode connection details may vary from those indicated. Submit alternate details to the engineer for approval.

2. Std swaged fittings for bond cables may be replaced with 1/4" SS plate w/ 9/16"ø hole for direct connection to 1/2"ø bond lugs on piles (cad-weld 1/4" SS cable directly to plate in lieu of swaged fitting & 3/8"ø bolts).

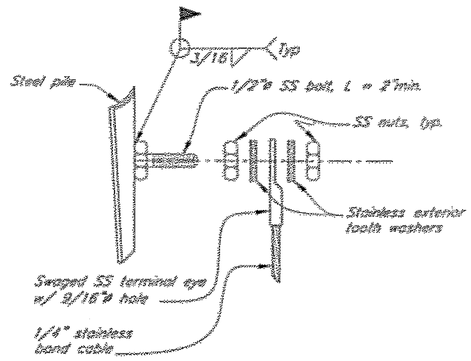
3. Anode materials shall be aluminum alloy conforming to the following minimum reqmts:

Current Capacity = 1,100 amp hours/lb
Efficiency = 85%
Min Voltage Potential = 1.1 volts (CU/CU reference electrode in seawater).

Dimensions of anodes shall be determined by the manufacturer.

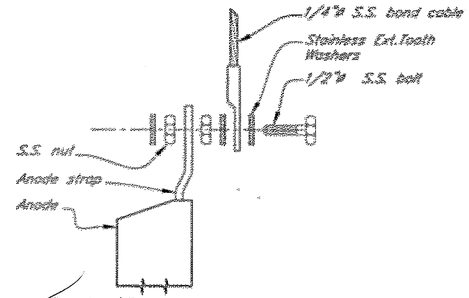
4. Unless otherwise noted, all bond cables, bond lugs, fastener plates and connection hardware shall be stainless steel, Type 316. Cables shall be sheathed in plastic tubing.

5. Repair all field welds and damaged coatings in accordance with Section 504 of the Contract Specifications.

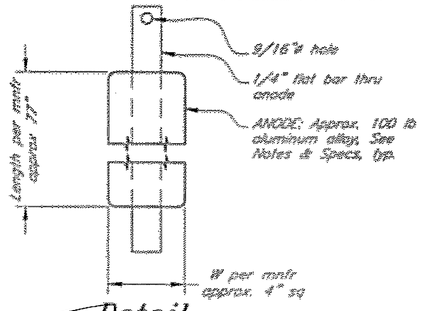


Detail
Bond Lug Connection

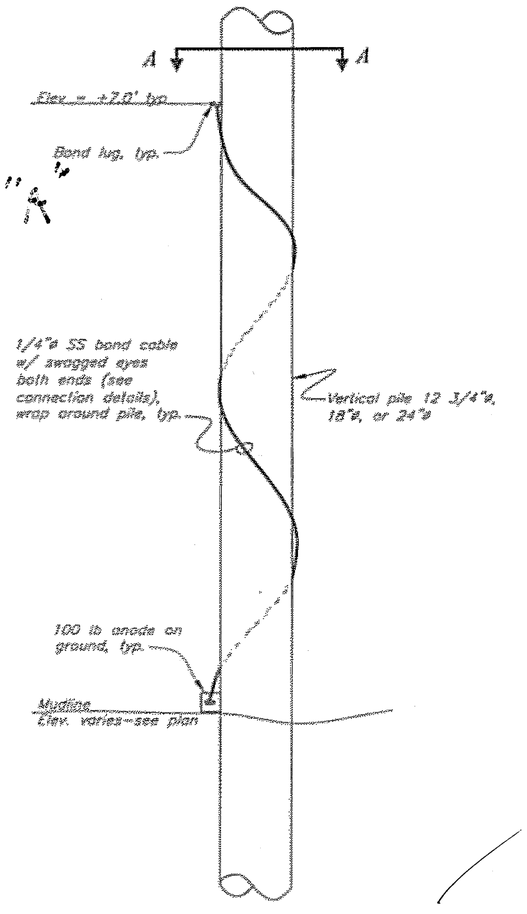
(apply min. 1/8" thick coating of waterproof corrosion protection grease to all connections)



Detail
Anode & Cable Connection

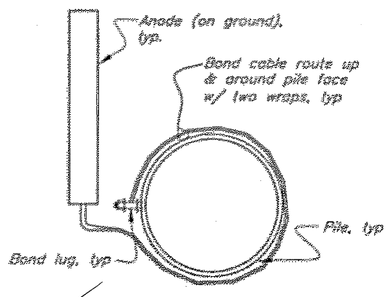


Detail
Anode

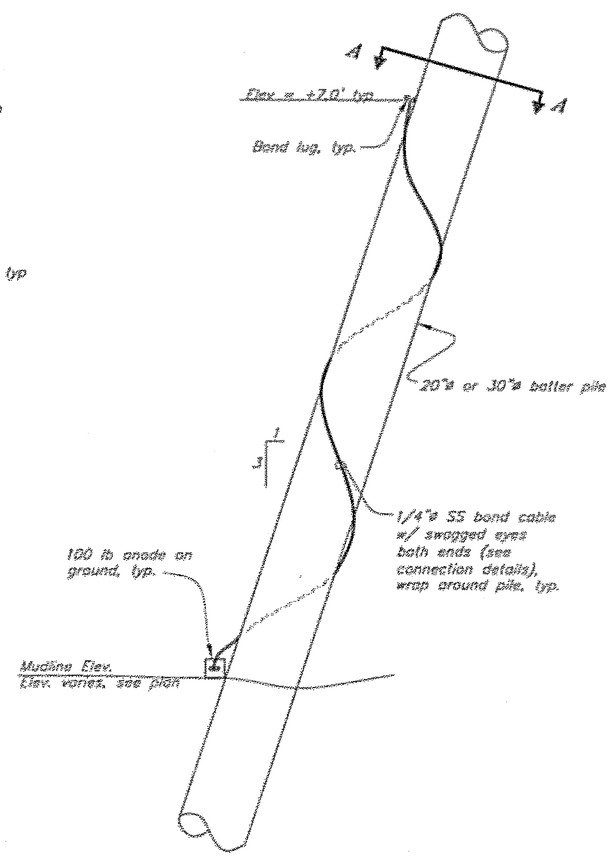


Typical Elevation - Vertical Pile

Approach, Dock, Transfer Bridge Abutment & Pedestrian Trestle Support:
1 anode required @ each vertical pile except Approach Pier 1, 16 anodes req'd



Section A-A



Typical Elevation - Batter Pile

Mooring dolphins S1-S4
Bridge float restraint structures WR & ER
Install on each batter pile
12 anodes req'd

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

DESIGNED BY: K. Miller
DRAWN BY: C. Turner
CHECKED BY: B. Sumdum

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
S.E. REGION DESIGN & ENGINEERING SERVICES DIVISION

STATE OF ALASKA 49th Kirk D. Miller 12-8850 REGISTERED PROFESSIONAL ENGINEER
2/5/05

Coffman Cove Ferry Terminal
Project 67844

Cathodic Protection Anodes

PATH: G:\Pow\67844\ME\Planset\99 Anodes.dwg
PLOT: PSPACE 1=1
Thu, 24/Feb/05 10:39AM

NO	DATE	REVISIONS DESCRIPTION

PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
67844	2005	99	99

JM 2/07

AS-BUILT PLANS



DESIGNED BY
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES
SOUTHEAST REGION
FOR THE

City of Coffman Cove

A PROJECT AT
COFFMAN COVE, ALASKA
PLANSET B

POW-COFFMAN COVE FERRY TERMINAL UPLANDS

PROJECT No. 67844 ~ STP-0003(66)

INDEX OF SHEETS

SHEET NO.	DESCRIPTION
A1	TITLE SHEET
B1-B3	TYPICAL SECTIONS
C1	ESTIMATES OF QUANTITIES
D1-D2	MISCELLANEOUS SUMMARIES
E1-E4	PLAN & PROFILE SHEETS
E5	TIDELANDS FILL DISPOSAL PLAN
E6	TERMINAL BUILDING - SITE PLAN
E7	STORAGE BUILDING - SITE PLAN
E8	SIDEWALK LAYOUT 22+00 TO 23+50
G1	STORM DRAIN DETALS
G2	PEDESTRIAN BARRIER DETAILS
G3	ROCK BOLT & DRAIN HOLE DETAILS
G4	16 FT. SLIDING GATE DETAILS
G5	MISCELLANEOUS DETAILS
J1-J2	STRIPING PLAN
K1-K4	EROSION & SEDIMENT CONTROL PLAN

THE FOLLOWING DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES STANDARD DRAWINGS ARE INCLUDED IN THIS PROJECT:

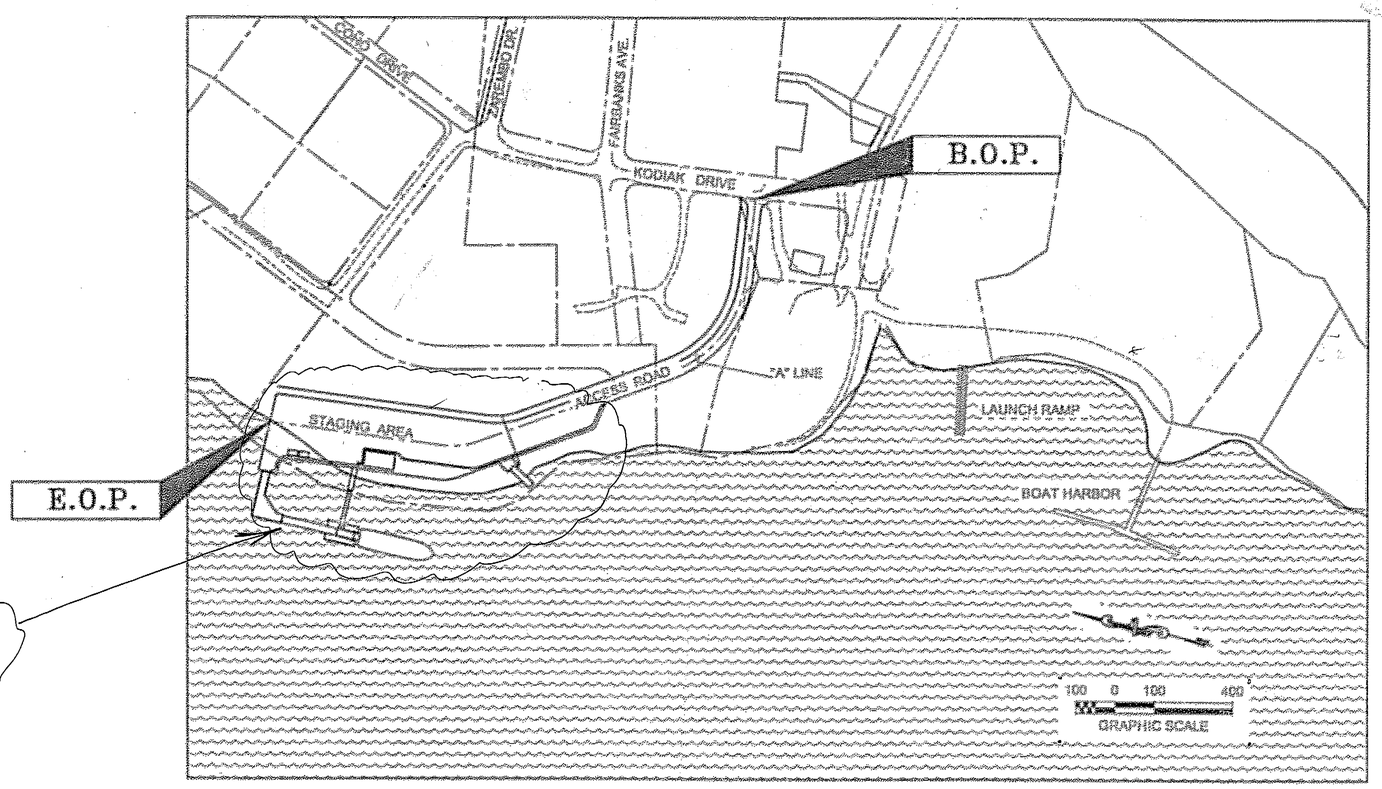
A-1	D-01.02	D-20.03	D-22.01	D-23.01	D-24.00	D-26.02	D-35.00
E-13.00	F-01.01	F-03.01	G-46.10	I-20.13	I-21.01	I-22.01	
S-00.10	S-01.00	S-03.01	S-20.10	S-30.03			

DESIGN DATA

DESIGN VEHICLE:	B40 BUS
DESIGN TURNING RADIUS:	42'
DESIGN SPEED:	25 MPH

TIDAL DATA

EHW:	+22'
EHT:	+20'
MHHW:	+15.6'
ELW:	-4.5'



VICINITY MAP

This Area changed per CO NO. 1
See Plansets G

AS-BUILTS

CONTRACTOR: SE ROAD BUILDERS
PE: GREG BROWNING
BEGIN: 6/05
END: 8/06

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND
PUBLIC FACILITIES
SOUTHEAST REGION

APPROVED for Patrick J. Kemp / Preconstruction Engineer — Date 3/14/05

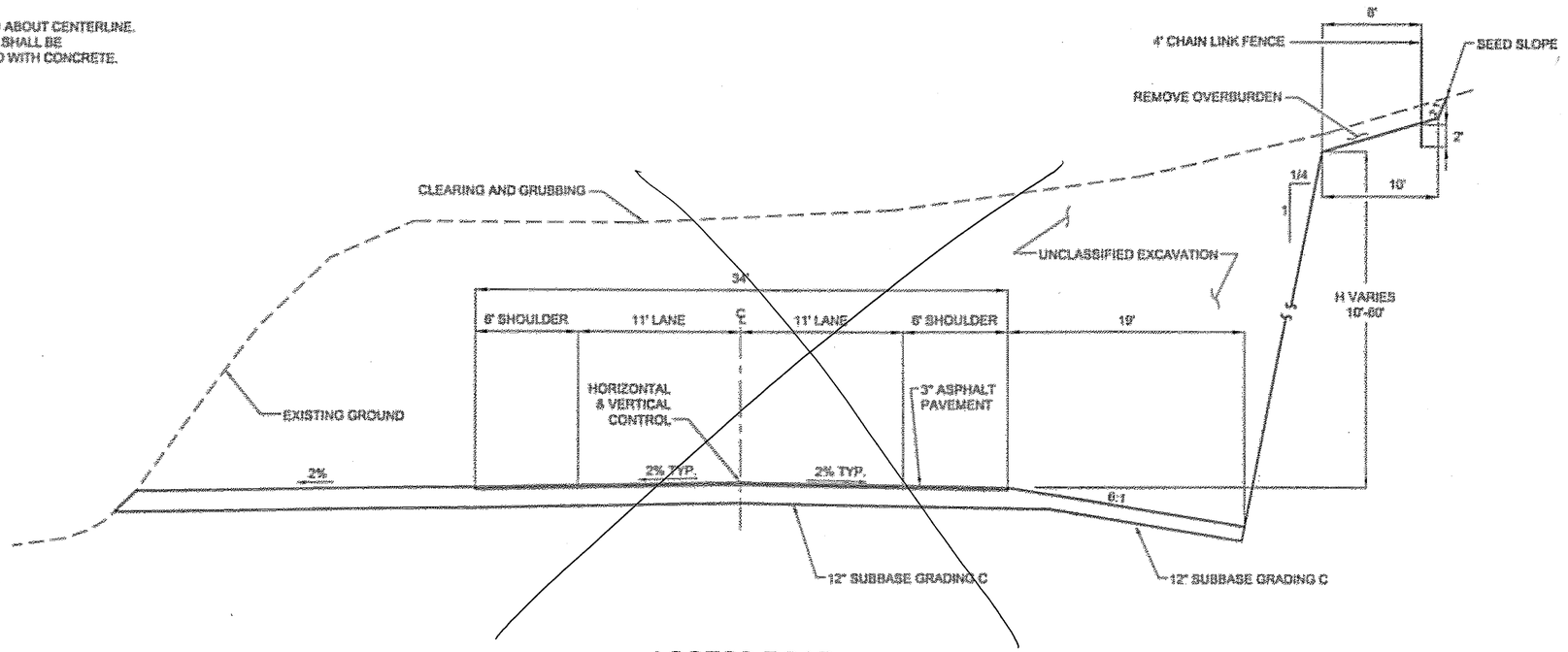
APPROVED Cory L. Presley / Director, S.E. Region — Date 3/14/05

PROJECT NUMBER:	ENGINEER'S SEAL
67844	
DATE: MARCH 2005	
SHEET A1 OF 26	

3/15/05

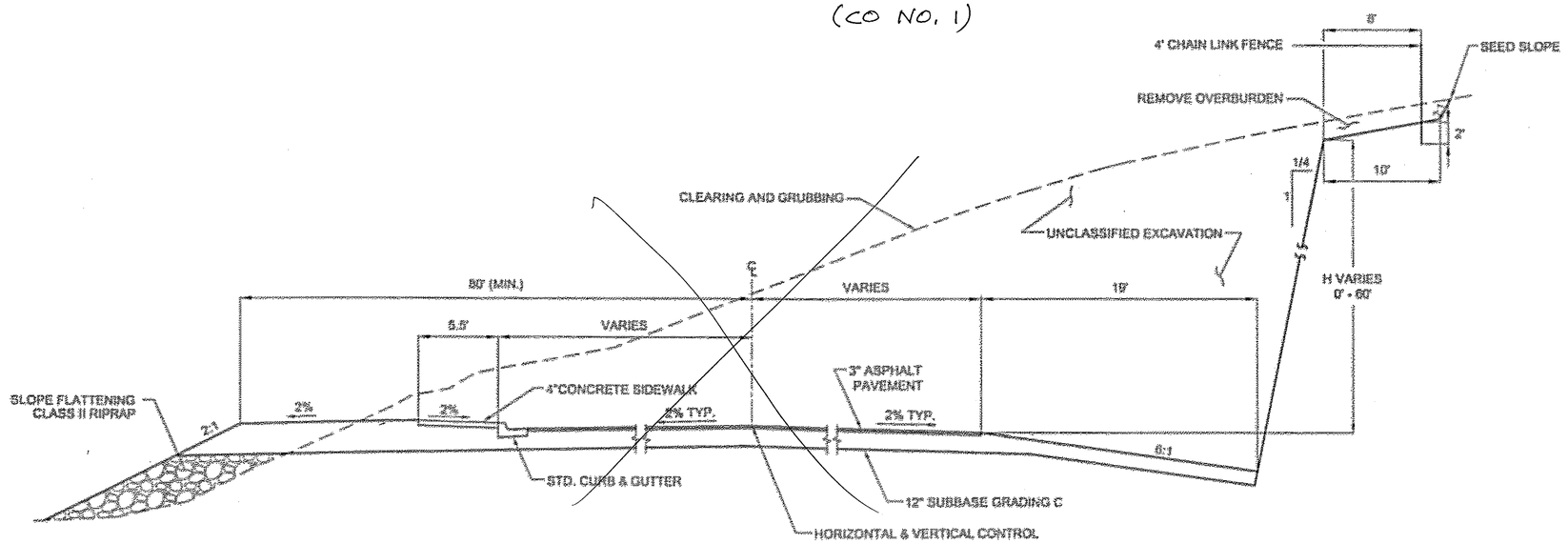
J MB 2/07

NOTES:
1.) SUPER ELEVATION ROTATED ABOUT CENTERLINE.
2.) FENCE POST AT TOP OF CUT SHALL BE DRILLED IN ROCK AND FILLED WITH CONCRETE.



ACCESS ROAD
STA. "A" 10+00 to ~~17+18~~

SEE PLANSET G (CO NO. 1)



PARKING AREA
~~TYP. STA. "A" 17+18 to 21+50~~

SEE PLANSET G (CO NO 1)

PATH:
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Tue, 15/Mar/05 09:13AM
PLOT:
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TAB: B1

ADDENDUM NUMBER

ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION

POW-COFFMAN COVE
FERRY TERMINAL
STP-0003(66) ~ 67844

TYPICAL SECTIONS

DESIGNED BY: D. BLACKBURN

STATE OF ALASKA — 49th — Doug R. Blackburn — 12-10002 — REGISTERED ENGINEER
3/15/05

CHECKED BY: STAFF

DRAWN/REVISED BY: DR DODGE

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
SOUTHEAST REGION DESIGN & ENGINEERING SERVICES DIVISION
POW-COFFMAN COVE
FERRY TERMINAL

TYPICAL SECTIONS

PROJECT DESIGNATION NUMBER	
STP-0003(66) ~ 67844	
STATE	YEAR
ALASKA	2005
SHEET NUMBER	TOTAL SHEETS
B1	26

V/B 2/07

NOTES:

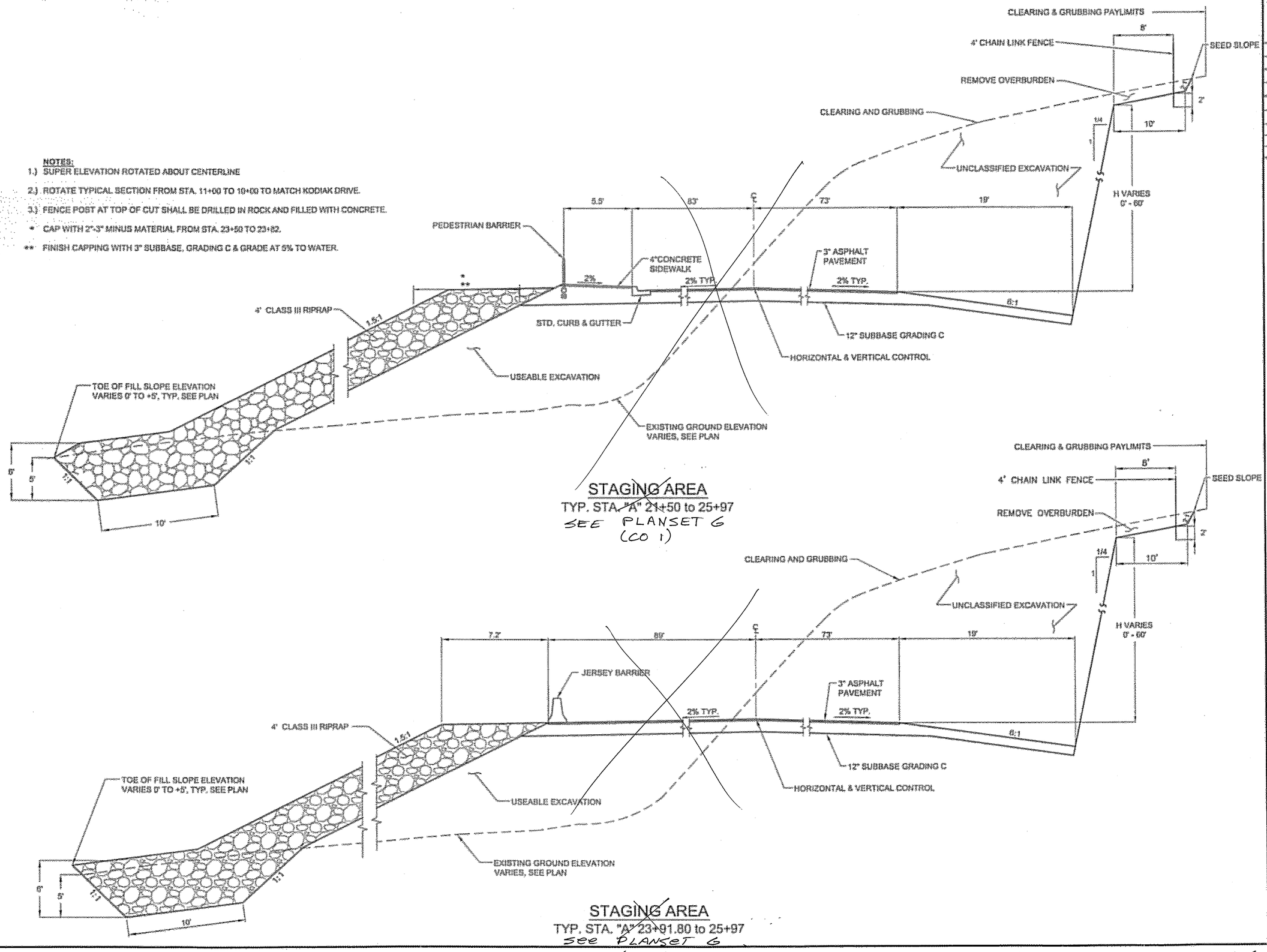
1.) SUPER ELEVATION ROTATED ABOUT CENTERLINE

2.) ROTATE TYPICAL SECTION FROM STA. 11+00 TO 10+00 TO MATCH KODIAK DRIVE.

3.) FENCE POST AT TOP OF CUT SHALL BE DRILLED IN ROCK AND FILLED WITH CONCRETE.

* CAP WITH 2"-3" MINUS MATERIAL FROM STA. 23+50 TO 23+82.

** FINISH CAPPING WITH 3" SUBBASE, GRADING C & GRADE AT 5% TO WATER.



TYPICAL SECTIONS

POW-COFFMAN COVE
FERRY TERMINAL
STP-0003(66) ~ 67844

PATH:
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TAB: B2

ADDENDUM NUMBER
ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION

DESIGNED BY: D. BLACKBURN

STATE OF ALASKA
49th
Doug M. Blackburn
CE-12052
REGISTERED PROFESSIONAL ENGINEER
3/15/05

CHECKED BY: STAFF

DRAWN/REVISED BY: DR DODGE

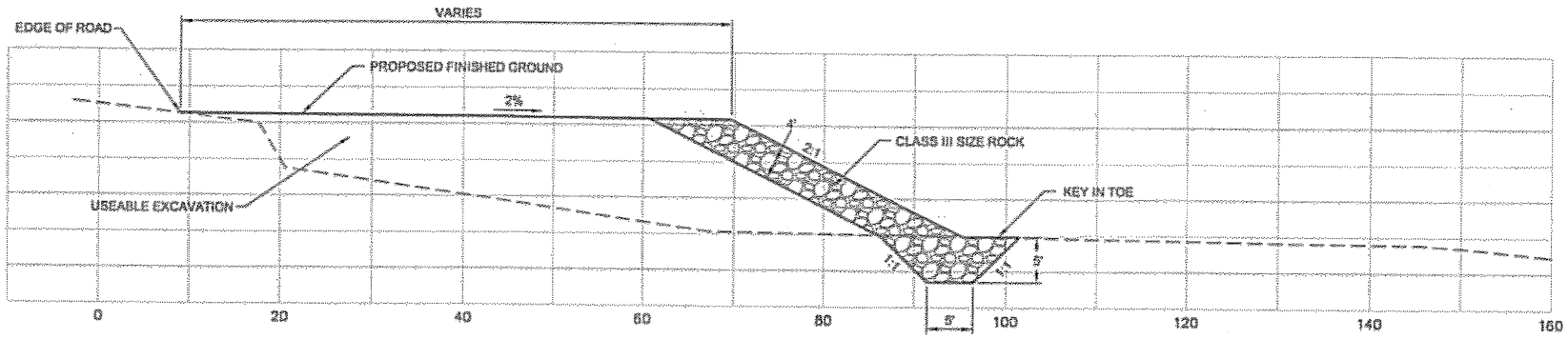
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
SOUTHEAST REGION DESIGN & ENGINEERING SERVICES DIVISION

POW-COFFMAN COVE
FERRY TERMINAL

TYPICAL SECTIONS

PROJECT DESIGNATION NUMBER	
STP-0003(66) ~ 67844	
STATE	YEAR
ALASKA	2005
SHEET NUMBER	TOTAL SHEETS
B2	26

✓ GB 2/07



EARTHWORK
TOTAL FILL: 12,500 CY

TIDELANDS FILL DISPOSAL

~~SEE SHEET B5~~

See PLANSET G for Location

PATH:
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Mon, 14/Mar/05 09:02AM
PLOT:
PSPACE 1=1(F) OR MSPACE 1=1(F)
TAB: B3

ADDENDUM NUMBER

ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION

POW-COFFMAN COVE
FERRY TERMINAL
STP-0003(66) ~ 67844

TYPICAL SECTIONS

DESIGNED BY: D. BLACKBURN

STATE OF ALASKA
10th
Doug R. Blackburn
CE-10052
REGISTERED PROFESSIONAL ENGINEER

3/15/05

CHECKED BY: STAFF

DRAWN/REVISED BY: DR DODGE

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

POW-COFFMAN COVE
FERRY TERMINAL

TYPICAL
SECTIONS

PROJECT DESIGNATION NUMBER	
STP-0003(66) ~ 67844	
STATE	YEAR
ALASKA	2005
SHEET NUMBER	TOTAL SHEETS
B3	26

✓ 9/1/05 2/07

CO	ADDED BY CHANGE ORDER
1	203(22) UNC. EXC/EARTH; DRAINAGES - L.S. - ALL REQ.
6	401(9) Asphalt Price Adjust - L.S. - ALL REQ
1	603(21-12) 12" CPP - L.F. - 240
1	607(3-8B) chain Link Fence(8')-L.F. - 624
1	607(9) 16' slide Gate w/o power - EACH - 2
5	615(6) MARSCC Signs - L.S. - ALL REQ
1	615(7) Sign Pob w/Mast - L.S. ALL REQ
1	642(13) Cont. Survey. for Mods - L.S. ALL REQ
2	644(8) ADA VAN - L.S. ALL REQ
1	670(1) Painted Traffic Markings - L.S. - ALL REQ
1	695(3) Pump Stations - L.S. ALL REQ

ESTIMATE OF QUANTITIES

ITEM No.	ITEM	UNIT	TOTAL
201 (3B)	CLEARING AND GRUBBING	LUMP SUM	ALL REQUIRED
203 (3)	UNCLASSIFIED EXCAVATION Del. CO. NO 1	~~CUBIC YARD~~	~~117,700~~
203 (10)	CONTROLLED BLASTING Del. CO. NO 1	~~LINEAR FOOT~~	~~24,000~~
203 (12)	DRAIN HOLES	LINEAR FOOT	~~2,260~~ 960
203 (13)	STABILIZATION - ROCK BOLT Del. CO. NO 1	~~EACH~~	~~18~~
304 (1)	SUBBASE, GRADING C Del CO NO 1	~~CUBIC YARDS~~	~~8,900~~
401 (1)	ASPHALT CONCRETE, TYPE II, CLASS B	TON	~~2,100~~ 1990
401 (2)	ASPHALT CEMENT, GRADE PG 58-28	TON	~~125~~ 131.340
603 (21-18)	18 INCH CORRUGATED POLYETHYLENE PIPE	LINEAR FOOT	32 165
603 (21-24)	24 INCH CORRUGATED POLYETHYLENE PIPE	LINEAR FOOT	156 134
604 (1)	STORM SEWER MANHOLE	EACH	1
604 (5)	INLET, TYPE A	EACH	2
607 (3-4)	4 FT CHAIN LINK FENCE Del CO. NO 1	~~LINEAR FOOT~~	~~1,490~~
607 (3-8)	8 FT CHAIN LINK FENCE Del. CO-NO-1	~~LINEAR FOOT~~	~~115~~
607 (7)	16 FT SLIDE GATE -CO-1	EACH	~~2~~ 1
607 (8)	22 FT DOUBLE SWING GATE	EACH	1
607 (6)	WALK GATE Del. CO-NO-1	~~EACH~~	~~1~~
608 (1A)	CONCRETE SIDEWALK, 4 INCH THICK CO1	SQUARE YARD	~~550~~ 1435.90
608 (6)	CURB RAMP	EACH	~~15~~ 7
609 (2)	CURB AND GUTTER, TYPE 1 CO-1	LINEAR FOOT	768 1962
609 (3)	BACKING CURB (NOT USED)	LINEAR FOOT	~~78~~ 0
611 (1-2)	RIPRAP, CLASS II Del CO-NO-1	~~CUBIC YARD~~	~~320~~
611 (1-3)	RIPRAP, CLASS III Dec CO No. 1	~~CUBIC YARD~~	~~6,610~~
614 (1)	CONCRETE BARRIER DEL CO NO. 1	~~LINEAR FOOT~~	~~360~~
615 (1)	STANDARD SIGNS CO-1	SQUARE FOOT	~~42~~ 95
618 (1)	SEEDING CO-1	SQUARE YARD	~~2,290~~ 5047
620 (1)	TOPSOIL Del CO NO. 1	~~SQUARE YARD~~	~~1,028~~
621 (5)	PLANTINGS 1	LUMP SUM	ALL REQUIRED
625 (2)	PEDESTRIAN BARRIER Del CO No. 1	~~LINEAR FOOT~~	~~214~~
635 (1)	INSULATION BOARD	~~MBM~~	~~0.5~~ 0.724
640 (1)	MOBILIZATION AND DEMOBILIZATION	LUMP SUM	ALL REQUIRED
641 (1)	EROSION AND POLLUTION CONTROL ADMINISTRATION	LUMP SUM	ALL REQUIRED
641 (3)	TEMPORARY EROSION AND POLLUTION CONTROL	LUMP SUM	ALL REQUIRED
642 (1)	CONSTRUCTION SURVEYING	LUMP SUM	ALL REQUIRED
642 (3)	THREE PERSON SURVEY PARTY	HOUR	~~10~~ 0
642 (9)	REFERENCE EXISTING MONUMENT	EACH	6
642 (10)	MONUMENT CASE	EACH	0
643 (2)	TRAFFIC MAINTENANCE	LUMP SUM	ALL REQUIRED
643 (3)	PERMANENT CONSTRUCTION SIGNS	LUMP SUM	ALL REQUIRED
644 (1)	FIELD OFFICE	LUMP SUM	ALL REQUIRED
644 (2)	FIELD LABORATORY	LUMP SUM	ALL REQUIRED
644 (6)	VEHICLES	LUMP SUM	ALL REQUIRED
651 (1)	EAGLE MONITORING	HOUR	~~205~~ 7.5
670 (6)	PREFORMED PAVEMENT MARKINGS	LUMP SUM	ALL REQUIRED

BASIS OF ESTIMATE

ITEM No.	ITEM	QUANTITY
301 (1)	CRUSHED AGGREGATE BASE COURSE	1.96 TON/CUBIC YARD
304 (1A)	SUBBASE, GRADING C	1.80 TON/CUBIC YARD
401 (1)	ASPHALT CONCRETE, TYPE II CLASS "B"	120.0 LBS/SQ. YD./IN. DEPTH
401 (2)	ASPHALT CEMENT, PG 58-22	6.00% OF ITEM 401(1)
402 (1)	ASPHALT FOR TACK COAT	0.1 GAL./SQ. YD., 240 GAL/TON
641 (3)	TEMPORARY EROSION AND POLLUTION CONTROL	5 TEMPORARY DITCH BLOCKS 750 LF SILT FENCE, DISPOSAL SITE 1 700 LF SILT FENCE, DISPOSAL SITE 2

PATH:
G:\Pow\67844\DR\Plan S\C-Estimate2.dwg
Mon, 14/Mar/05 09:02AM drdodge
PLOT:
PSPACE 1=1(F) OR MSPACE 1=1(F)
TAB: C1

ADDENDUM NUMBER
ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION

POW-COFFMAN COVE
FERRY TERMINAL
STP-0003(66) ~ 67844

Estimate of Quantities

DESIGNED BY: D. BLACKBURN

STATE OF ALASKA
10th
Doug E. Blackburn
CE-10052
REGISTERED PROFESSIONAL ENGINEER
3/15/05

CHECKED BY: STAFF
DRAWN/REVISED BY: DR DODGE

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
& PUBLIC FACILITIES
SOUTHEAST REGION DESIGN
& ENGINEERING SERVICES DIVISION
POW-COFFMAN COVE
FERRY TERMINAL

Estimate of Quantities

PROJECT DESIGNATION NUMBER	
STP-0003(66) ~ 67844	
STATE	YEAR
ALASKA	2005
SHEET NUMBER	TOTAL SHEETS
C1	26

V 2/07

PROJECT LAYOUT DATA (SEE SHEETS E3 & E4)

POINT No.	NORTH	EAST	ELEVATION	REMARKS
1	501405.84	99803.64		PT CURVE, TOP BACK CURB, R=18'
2	501413.06	99782.23		PC CURVE, TOP BACK CURB, R=25'
3	501424.82	99745.10		PT CURVE, TOP BACK CURB, R=25'
4	501725.80	99549.55		PC CURVE, TOP BACK CURB, R=114'
5	501777.37	99531.51		PT CURVE, TOP BACK CURB, R=114'
6	501596.77	99726.46		PC CURVE, EDGE OF PAVEMENT, R=200'
7	501687.25	99698.61		PT CURVE, EDGE OF PAVEMENT, R=200'
8	502153.13	99489.86		PC CURVE, EDGE OF ASPHALT, R=22'
9	502173.05	99467.96		PT CURVE, EDGE OF ASPHALT, R=22'
10	502173.05	99449.26		PC CURVE, EDGE OF ASPHALT, R=5'
11	502178.05	99444.26		PT CURVE, EDGE OF ASPHALT, R=5'
12	502200.72	99444.26	26.04	FG BRIDGE APPROACH
13	502216.18	99444.26		PC CURVE, EDGE OF ASPHALT, R=3'
14	502221.18	99449.26		PT CURVE, EDGE OF ASPHALT, R=3'
15	502216.18	~~99449.26~~ 99441.65		ASPHALT RADIUS POINT, R=5'
16	502205.34	99492.95	25.08	FG SPOT ELEV
17	502009.02	99509.55		CORNER, TOP BACK CURB LANDING
18	501945.79	99515.55		PT CURVE, TOP BACK CURB, R=3'

CURB RAMP SUMMARY

	TYPE	LENGTH LANDING (FT)	REMARKS
'A' 17+25 LT.	PARALLEL	6.5	R=18' CURB
'A' 20+08 LT.	PARALLEL	45	
'A' 21+51 LT.	PARALLEL	16	
'A' 22+56.7 LT.	PARALLEL	4	
'A' 22+54	PERPENDICULAR	3	
'A' 23+47.68, 64.5' LT.	PARALLEL	3	
'A' 23+86.79	PARALLEL	10	PEDESTRIAN APPROACH
'A' 25+76.3, 125' LT.	PARALLEL	4.66	STATION & OFFSET IS END OF CURB & GUTTER

See Planset 6

NOTES:
1.) CURB RADIUS IS TOP BACK CURB.

STORM DRAIN PIPE SUMMARY

PIPE No.	DIA. (IN.)	ENTRANCE			EXIT			LENGTH (FT.)	GRADE (%)	REMARKS
		INV. EL.	STATION	OFFSET	INV. EL.	STATION	OFFSET			
P-1	24	22.81	19+88.8	44.3 RT	21.67	19+94.5	62 LT	107	1.07	
P-2	24	21.57	19+94.5	62 LT	21.05	19+71.6	105 LT	49	1.07	
P-3	18	22.63	21+20	73 RT	21.99	21+20.5	105 LT	32	2.0	

SPECIAL GUTTER ELEVATIONS

STATION	OFFSET (FT.)	* ELEVATION	REMARKS
"A" 21+00	LT.	26.01	
"A" 21+20	LT.	25.88	INLET LOCATION
"A" 21+40	LT.	26.00	
"A" 22+48.8	55 LT.	27.25	
"A" 22+67.3	55 LT.	27.41	
"A" 23+25.8	55 LT.	27.25	
		* ELEV. AT LIP OF GUTTER	

STORM DRAIN STRUCTURE SUMMARY

STRUCTURE No.	TYPE	FRAME OR LID	STRUCTURES		SUMP ELEV.	REMARKS
			STATION	OFFSET		
S-1	48" STORM DRAIN MANHOLE	FRAME & GRATE	19+94.8	62 LT	19.68	INCLUDE TOP & VERTICAL BAFFLE PLATES
S-2	TYPE 'A' INLET	FRAME & GRATE	21+20	72.7 LT	21.13	INCLUDE TOP & VERTICAL BAFFLE PLATES

See PLANSET 6

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ADDENDUM NUMBER

ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION

POW-COFFMAN COVE
FERRY TERMINAL
STP-0003(66) ~ 67844

MISCELLANEOUS SUMMARIES

DESIGNED BY: D. BLACKBURN

STATE OF ALASKA 49th — Doug N. Blackburn CE-10093 — Registered Professional Engineer

3/15/05

CHECKED BY: STAFF

DRAWN/REVISED BY: DR DODGE

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
SOUTHEAST REGION DESIGN & ENGINEERING SERVICES DIVISION
POW-COFFMAN COVE
FERRY TERMINAL

MISCELLANEOUS SUMMARIES

PROJECT DESIGNATION NUMBER	
STP-0003(66) ~ 67844	
STATE	YEAR
ALASKA	2005
SHEET NUMBER	TOTAL SHEETS
D1	26

VM 2/07

FENCE SUMMARY

STATION BEGIN	STATION END	LENGTH	HEIGTH	REMARKS
11+00 RT.	19+50 RT.	850'	4'	TOP ROCK CUT
19+50 RT.	26+20 RT.	640'	4'	TOP ROCK CUT
	TOTAL	1,490'		
23+18 96' LT.	23+18 57' LT.	39'	5'	
23+18 39.8' LT.	23+18 17' LT.	23'	8'	
23+18 15' RT.	23+18 19' RT.	4'	8'	
23+18 35' RT.	23+18 92' RT.	57'	8'	
	TOTAL	113'		

SIGN SUMMARY

SIGN NO.	STATION	OFFSET L	OFFSET R	TYPE	LEGEND	FACING	WIDTH (IN)	HEIGHT (IN)	AREA (SQ FT)	POST SIZE	POST TYPE	REMARKS
1	"K" 17+50		28	R1-1	STOP	EB	36	36	9.00	2"	PST	
2	"A" 22+95		70	R7-8	RESERVED PARKING	NB	12	18	1.50	2"	PST	
3	"A" 23+10		70	R7-8	RESERVED PARKING	NB	12	18	1.50	2"	PST	
4	"K" 17+50		26	D3-1	KODIAK DRIVE	EB/WB	42	8	2.33			
								TOTAL	14.33			

GATE SUMMARY

STATION	WIDTH	HEIGTH	REMARKS
23+18 85' LT.	5.5'	8'	MAN GATE WITH LOCK
23+18 48' LT.	16'	8'	SLIDE GATE WITH LOCK
23+18 27' RT.	16'	8'	SLIDE GATE WITH LOCK
25+88 129.8' LT.	22'	8'	DOUBLE SWING GATE WITH LOCK

SNOW CHUTE SUMMARY

STATION	WIDTH	REMARKS
21+51, 86' LT	16'	
26+01, 45.6' LT	16'	

PEDESTRIAN BARRIER

STATION BEGIN	STATION END	LENGTH	REMARKS
21+64.5 88' LT.	23+71.2 88' LT.	206.7'	
23+74.2 80' LT.	23+81.7	7.5'	
	TOTAL	214.2'	

See Planset 6

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ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION

POW-COFFMAN COVE
FERRY TERMINAL
STP-0003(66) – 67844

MISCELLANEOUS SUMMARIES

DESIGNED BY: D. BLACKBURN

STATE OF ALASKA 49th
Doug R. Blackburn (E-10522)
PROFESSIONAL ENGINEER
3/15/05

CHECKED BY: STAFF

DRAWN/REVISED BY: DR DODGE

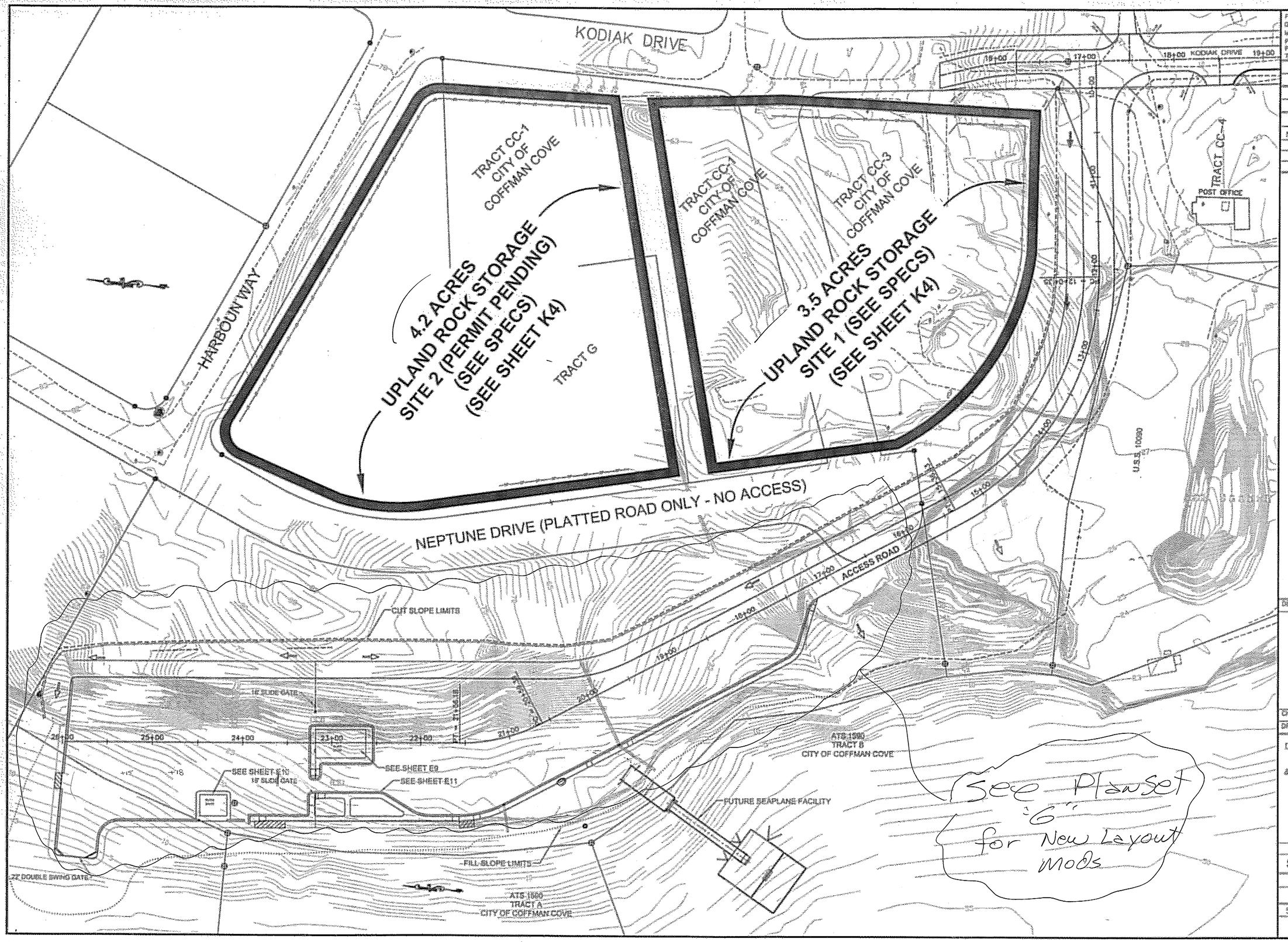
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
SOUTHEAST REGION DESIGN & ENGINEERING SERVICES DIVISION
POW–COFFMAN COVE
FERRY TERMINAL

MISCELLANEOUS SUMMARIES

PROJECT DESIGNATION NUMBER
STP-0003(66) – 67844

STATE	YEAR
ALASKA	2005
SHEET NUMBER	TOTAL SHEETS
D2	26

JGB 2/07



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ADDENDUM NUMBER

ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION

POW-COFFMAN COVE
FERRY TERMINAL
STP-0003(66) ~ 67844

Project Layout

DESIGNED BY: D. Blackburn

STATE OF ALASKA
40th
Craig E. Blackburn
12-10053
REGISTERED ENGINEER
3/15/05

CHECKED BY: D. Blackburn

DRAWN/REVISED BY: DR DODGE

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

POW-COFFMAN COVE
FERRY TERMINAL

Project Layout

PROJECT DESIGNATION NUMBER	
STP-0003(66) ~ 67844	
STATE	YEAR
ALASKA	2005
SHEET NUMBER	TOTAL SHEETS
E1	26

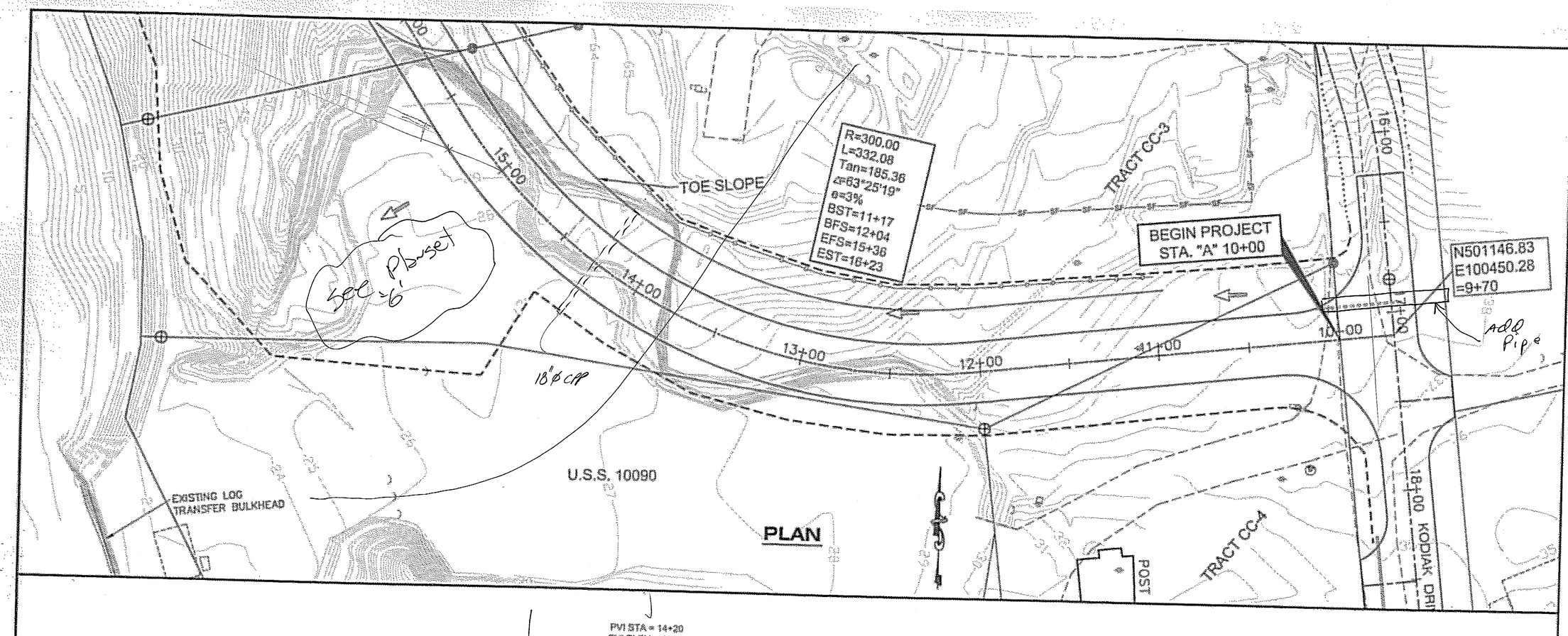
20+70 → Stable
65'15"

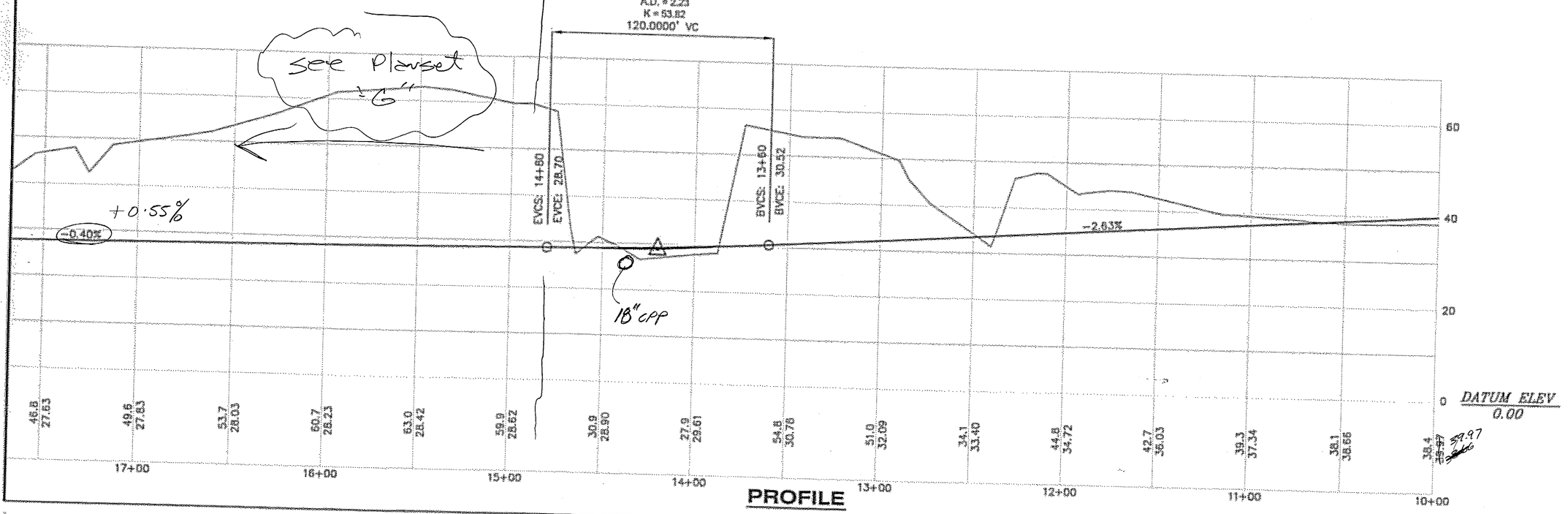
Middle
50' Wide
3-6' Deep

20+00 → 23+50 - Survey

3000-4000 cy

2/07





PATH:
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ADDENDUM NUMBER

ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION

POW-COFFMAN COVE
FERRY TERMINAL
STP-0003(66) – 67844

Plan & Profile

DESIGNED BY: D. Blackburn

STATE OF ALASKA
49th
Doug R. Blackburn
CE-10052
REGISTERED PROFESSIONAL ENGINEER
3/15/05

CHECKED BY: D. Blackburn

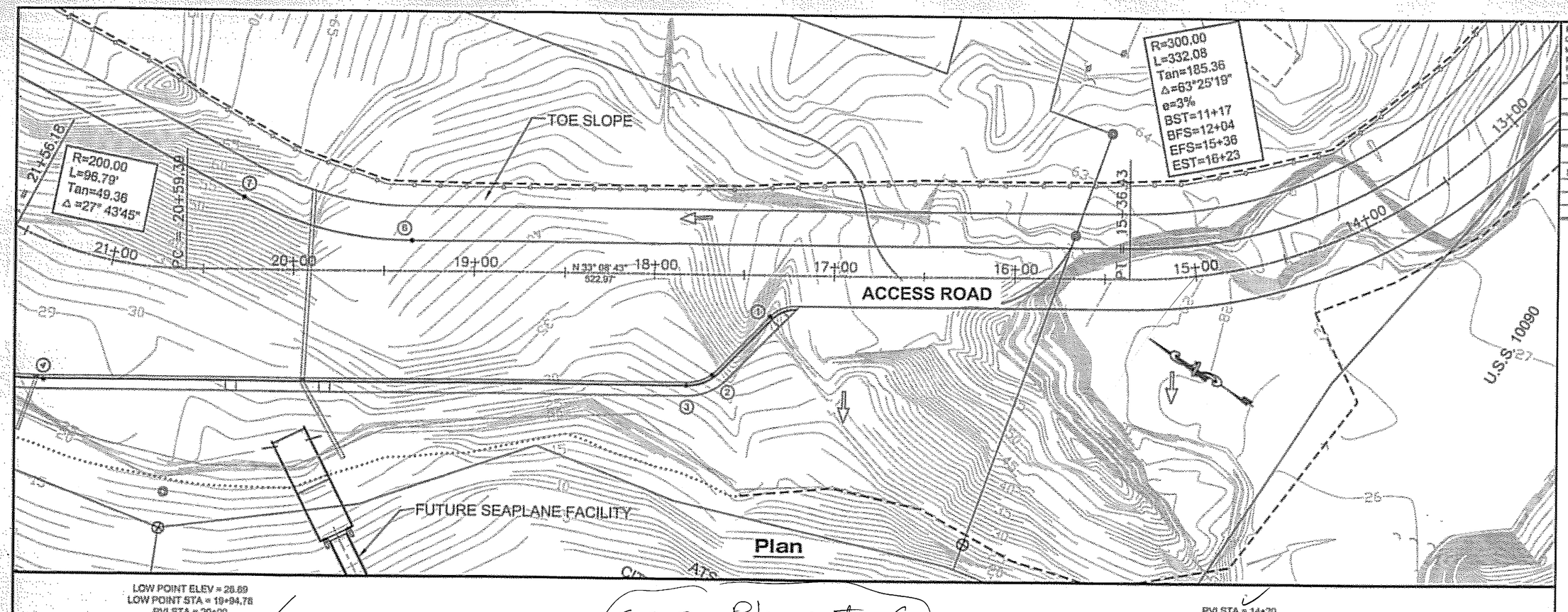
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STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
& PUBLIC FACILITIES
SOUTHEAST REGION DESIGN
& ENGINEERING SERVICES DIVISION
POW–COFFMAN COVE
FERRY TERMINAL

Plan & Profile

PROJECT DESIGNATION NUMBER	
STP-0003(66) ~ 67844	
STATE	YEAR
ALASKA	2005
SHEET NUMBER	TOTAL SHEETS
E2	26

V GB 2/07



See Planset G for new Layout

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ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION

POW-COFFMAN COVE
FERRY TERMINAL
STP-0003(66) ~ 67844

Plan & Profile

DESIGNED BY: D. Blackburn

STATE OF ALASKA
49th
Doug W. Blackburn
12-10032
REGISTERED PROFESSIONAL ENGINEER
3/15/05

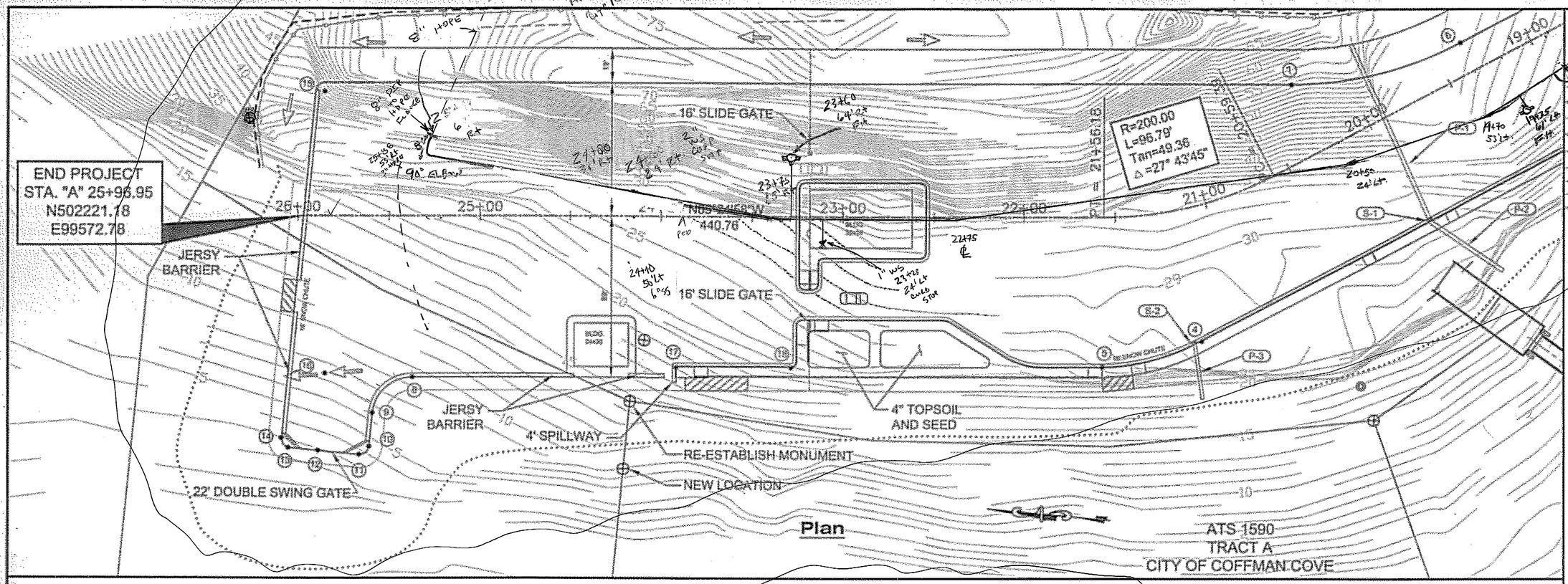
CHECKED BY: D. Blackburn
DRAWN/REVISED BY: DR DODGE

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
SOUTHEAST REGION DESIGN & ENGINEERING SERVICES DIVISION
POW-COFFMAN COVE
FERRY TERMINAL

Plan & Profile

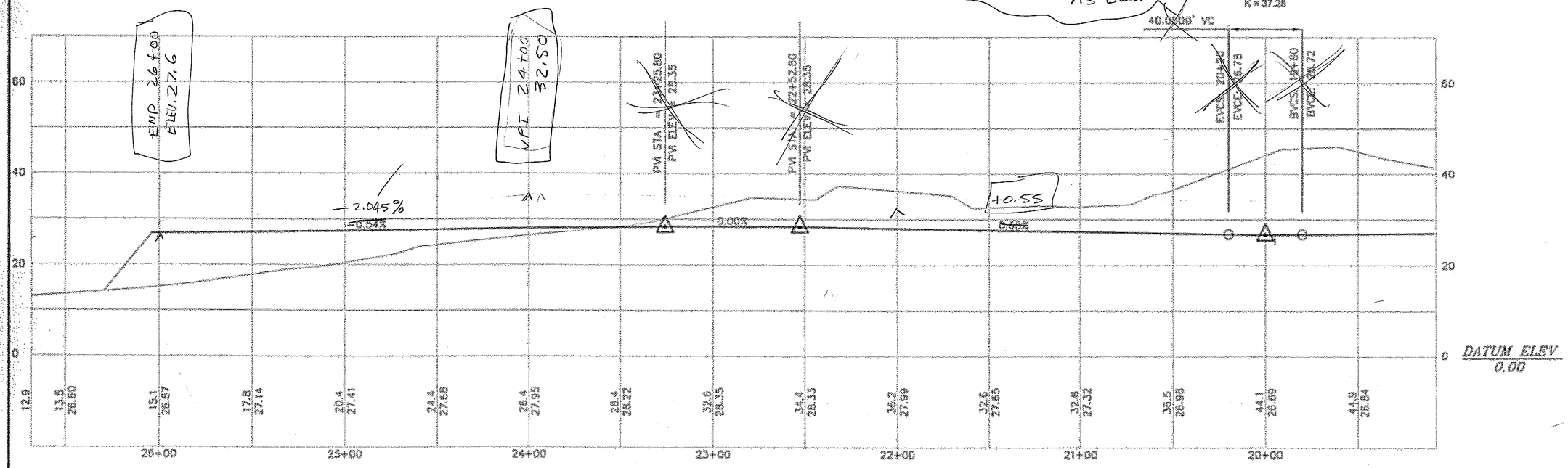
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STP-0003(66) ~ 67844	
STATE	YEAR
ALASKA	2005
SHEET NUMBER	TOTAL SHEETS
E3	26

2/07



See Planset 6 - New Layout
And Planset 6 - NOTES for Sewer & Water As Built

LOW POINT ELEV = 26.89
LOW POINT STA = 19+94.78
PVI STA = 20+00
PVI ELEV = 26.64
A.D. = 1.07
K = 37.28
40.0000' VC



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2 "WS 18+00 60' LT 6" DIP

ATTACHMENT NUMBER

RECORD OF REVISIONS

No	DATE	DESCRIPTION

POW-COFFMAN COVE
FERRY TERMINAL
STP-0003(66) ~ 67844

Plan & Profile

DESIGNED BY: D. Blackburn

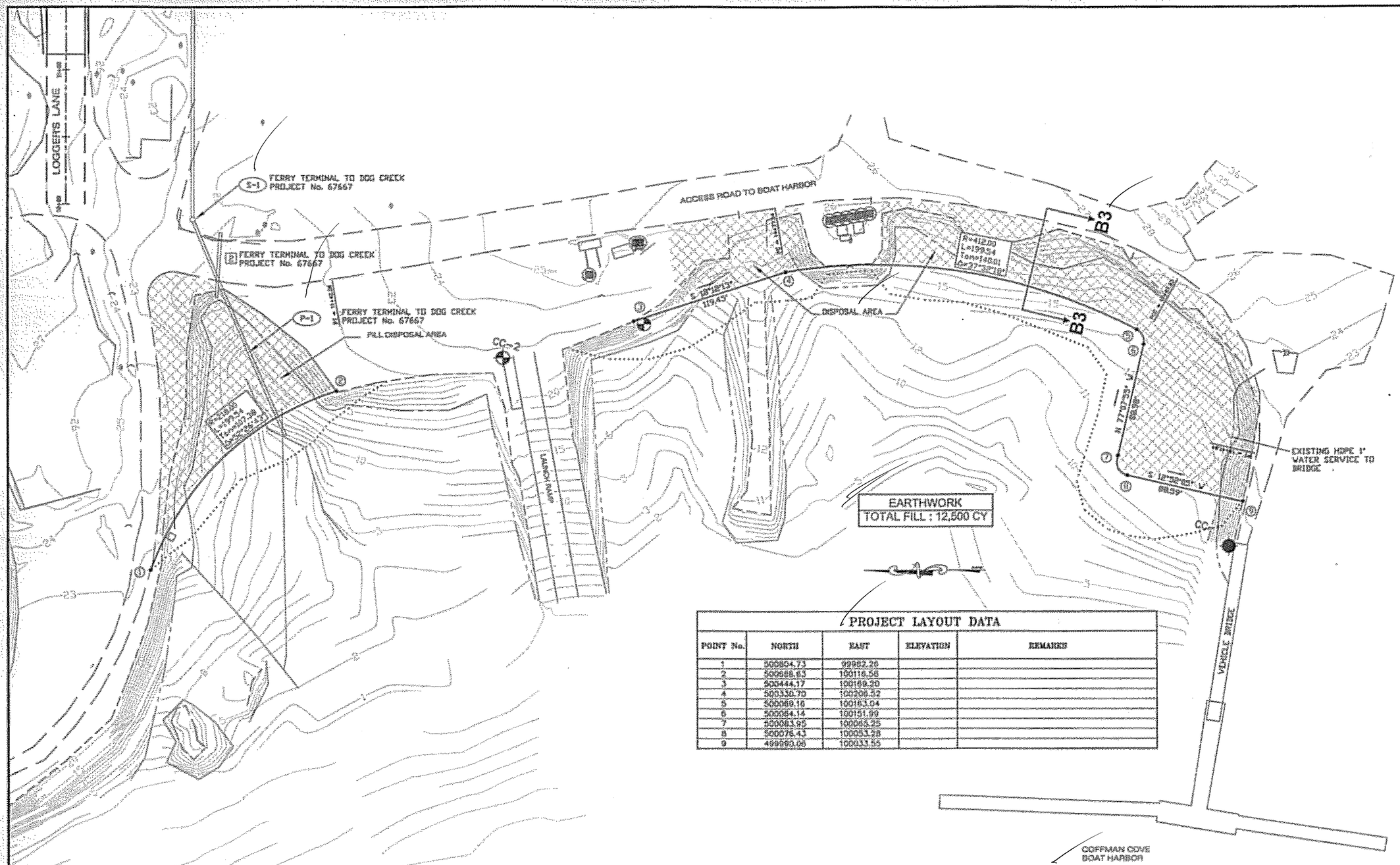
STATE OF ALASKA
10th
Doug W. Blackburn
12-10052
Engineer
3/15/05

CHECKED BY: D. Blackburn
DRAWN/REVISED BY: DR DODGE

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
SOUTHEAST REGION DESIGN & ENGINEERING SERVICES DIVISION
POW-COFFMAN COVE
FERRY TERMINAL

Plan & Profile

PROJECT DESIGNATION NUMBER	
STP-0003(66) ~ 67844	
STATE	YEAR
ALASKA	2005
SHEET NUMBER	TOTAL SHEETS
E4	26



PROJECT LAYOUT DATA

POINT No.	NORTH	EAST	ELEVATION	REMARKS
1	500854.73	99982.26		
2	500888.83	100116.58		
3	500444.17	100169.20		
4	500330.70	100206.52		
5	500089.18	100163.04		
6	500084.14	100151.99		
7	500083.95	100065.25		
8	500076.43	100043.58		
9	499960.09	100033.55		

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ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION

POW-COFFMAN COVE
FERRY TERMINAL
STP-0003(66) – 67844

TIDELANDS FILL DISPOSAL PLAN

DESIGNED BY: R. M. ACKERMAN

STATE OF ALASKA
49th
Doug M. Blackburn
CE-10062
PROFESSIONAL ENGINEER
3/15/05

CHECKED BY:

DRAWN/REVISED BY: DR 11/05

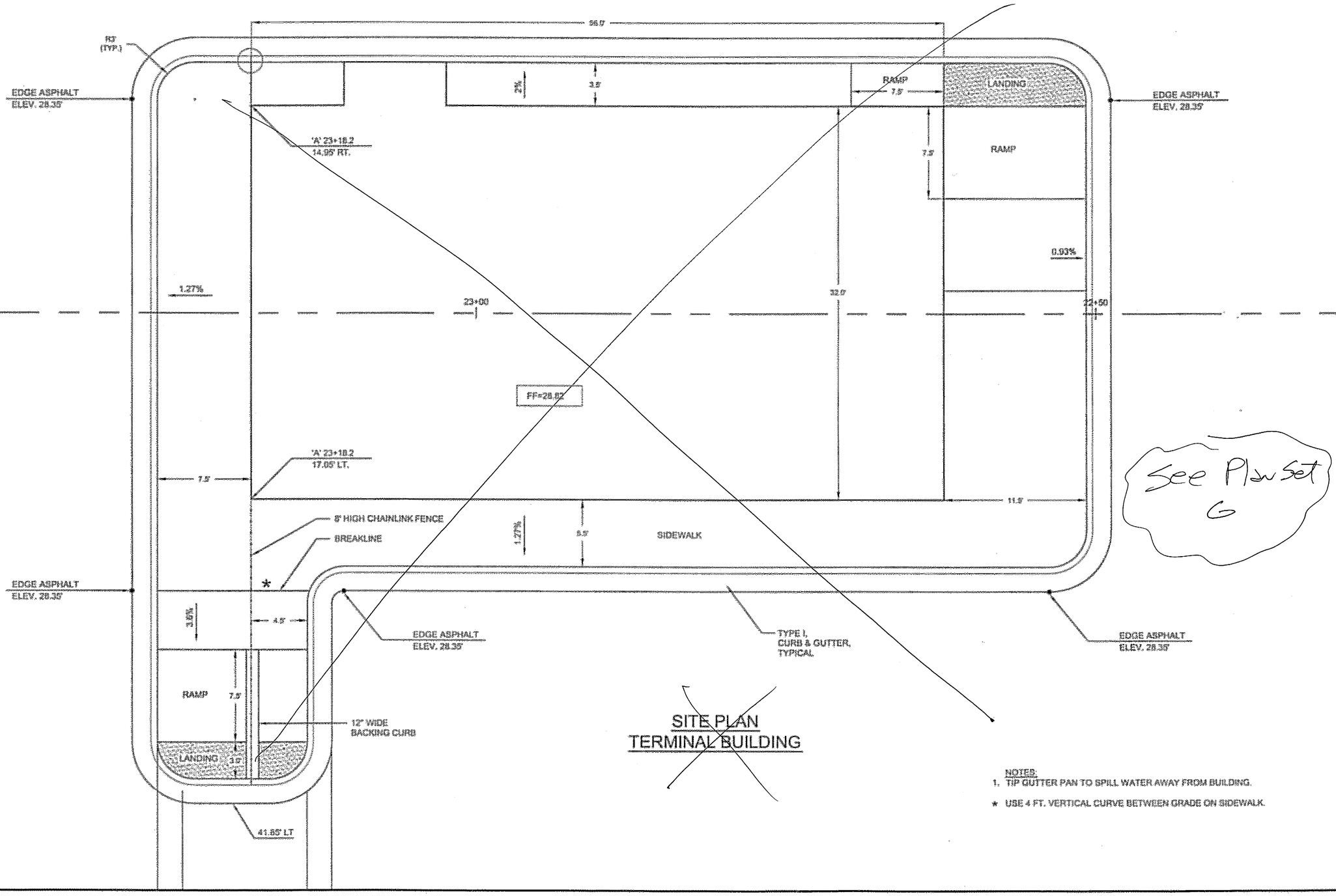
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
& PUBLIC FACILITIES
SOUTHEAST REGION DESIGN
& ENGINEERING SERVICES DIVISION

POW–COFFMAN COVE
FERRY TERMINAL

TIDELANDS FILL DISPOSAL PLAN

PROJECT DESIGNATION NUMBER	
STP-0003(66) – 67844	
STATE	YEAR
ALASKA	2005
SHEET NUMBER	TOTAL SHEETS
E5	26

JGB 2/07



SITE PLAN
TERMINAL BUILDING

NOTES:
1. TIP GUTTER PAN TO SPILL WATER AWAY FROM BUILDING.

* USE 4 FT. VERTICAL CURVE BETWEEN GRADE ON SIDEWALK.

See Plan Set G

PATH:
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ADDENDUM NUMBER

ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION

POW-COFFMAN COVE
FERRY TERMINAL
STP-0003(66) ~ 67844

SITE PLAN
TERMINAL BUILDING

DESIGNED BY: D. BLACKBURN

STATE OF ALASKA
49th
Craig W. Blackburn
CE-10262
PROFESSIONAL ENGINEER
3/15/05

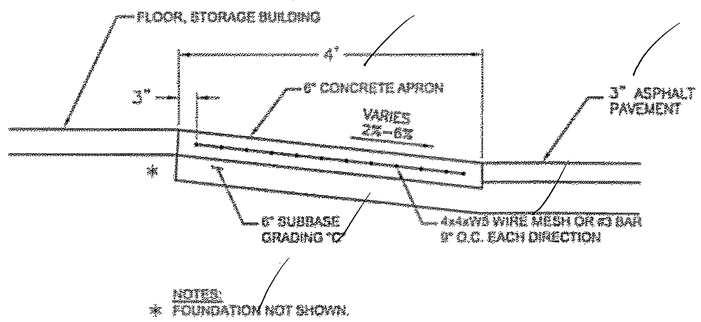
CHECKED BY: K. MILLER
DRAWN/REVISED BY: DB RBridge

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
SOUTHEAST REGION DESIGN & ENGINEERING SERVICES DIVISION
POW-COFFMAN COVE
FERRY TERMINAL

Site Plan
Terminal Building

PROJECT DESIGNATION NUMBER	
STP-0003(66) ~ 67844	
STATE	YEAR
ALASKA	2005
SHEET NUMBER	TOTAL SHEETS
E6	26

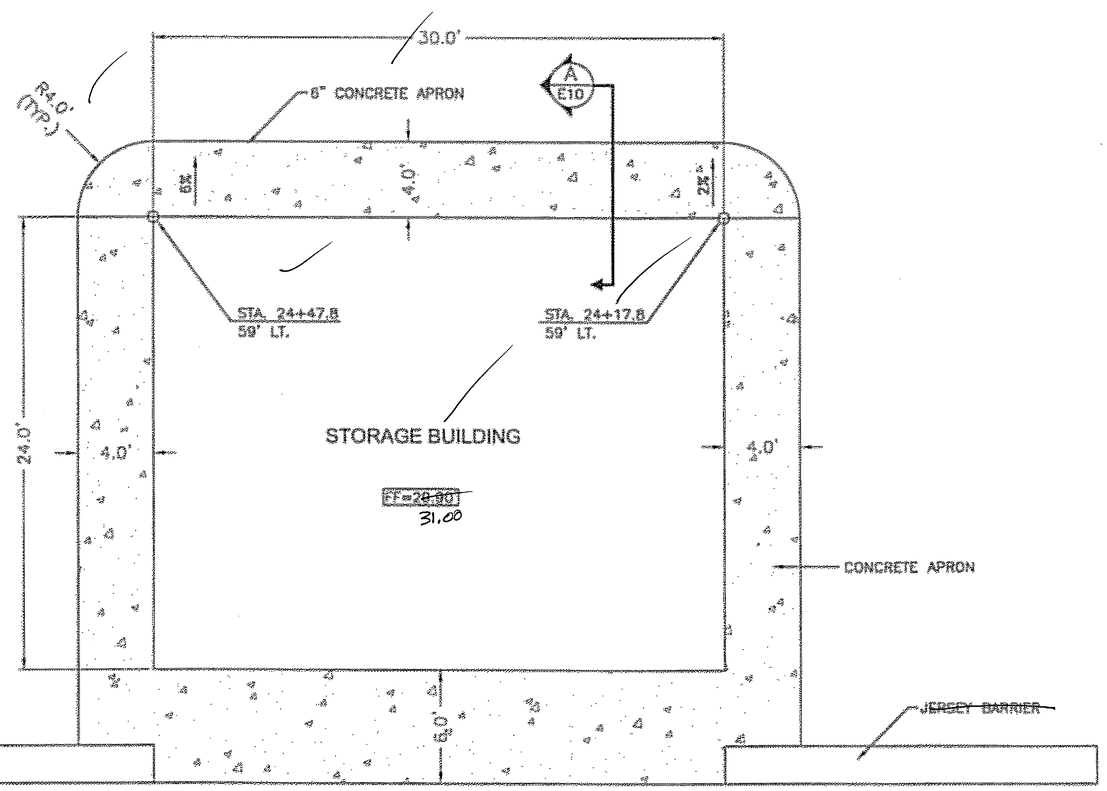
V/B 2/07

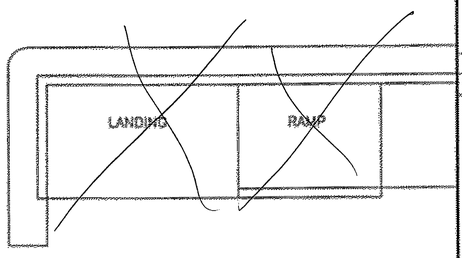


SECTION

NTS

A
E10





SITE PLAN

STORAGE BUILDING

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ADDENDUM NUMBER

ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION

POW-COFFMAN COVE
FERRY TERMINAL
STP-0003(66) – 67844

SITE PLAN
STORAGE BUILDING

DESIGNED BY: B. BLACKBURN

STATE OF ALASKA
49th
Craig W. Blackburn
CE-10052
REGISTERED PROFESSIONAL ENGINEER

3/15/05

CHECKED BY: K. MILLER

DRAWN/REVISED BY:

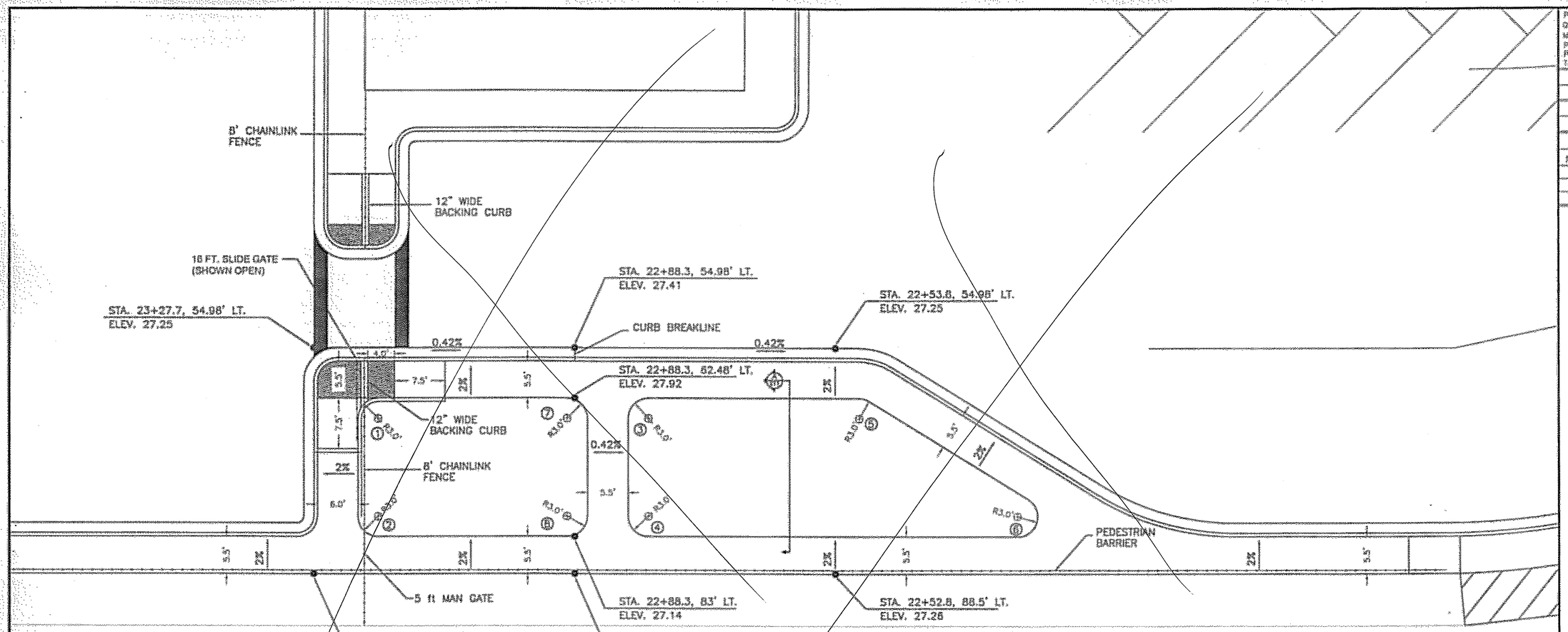
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
& PUBLIC FACILITIES
SOUTHEAST REGION DESIGN
& ENGINEERING SERVICES DIVISION

POW–COFFMAN COVE
FERRY TERMINAL

SITE PLAN
STORAGE
BUILDING

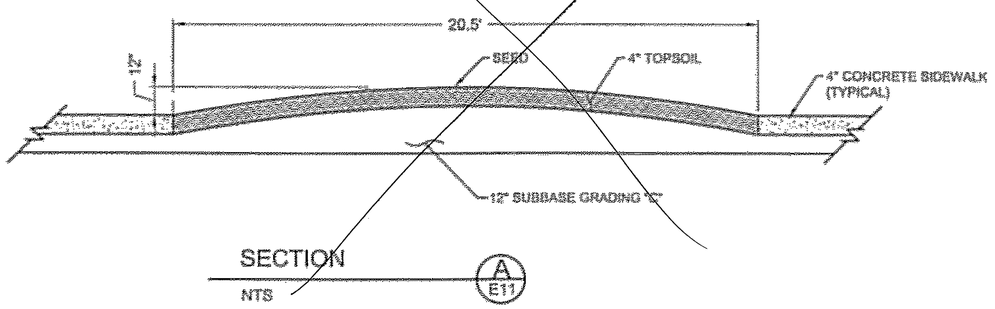
PROJECT DESIGNATION NUMBER	
STP-0003(66) – 67844	
STATE	YEAR
ALASKA	2005
SHEET NUMBER	TOTAL SHEETS
E7	26

✓ 2/07



POINT No.	STATION	OFFSET
①	23+16.20	65.48 LT
②	23+16.20	79.98 LT
③	22+76.35	65.48 LT
④	22+76.35	79.98 LT
⑤	22+45.22	65.48 LT
⑥	22+22.00	79.98 LT
⑦	22+88.35	65.48 LT
⑧	22+88.35	79.98 LT

SIDEWALK LAYOUT
STA. 22+00 LT. TO 23+50 LT.



SECTION
NTS
A
E11

CO NO 1 CHANGES LAYOUT
SEE PLAN SET 6

PATH:
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ADDENDUM NUMBER

ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION

POW-COFFMAN COVE
FERRY TERMINAL
STP-0003(66) – 67844

SIDEWALK LAYOUT
STA. 22+00 LT. TO 23+50 LT.

DESIGNED BY: M. LAVERING

STATE OF ALASKA
49th
Doug R. Blackburn
CE-10052
REGISTERED PROFESSIONAL ENGINEER
3/15/05

CHECKED BY: J. NEUMANN
DRAWN/REVISED BY: DR 02/07

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

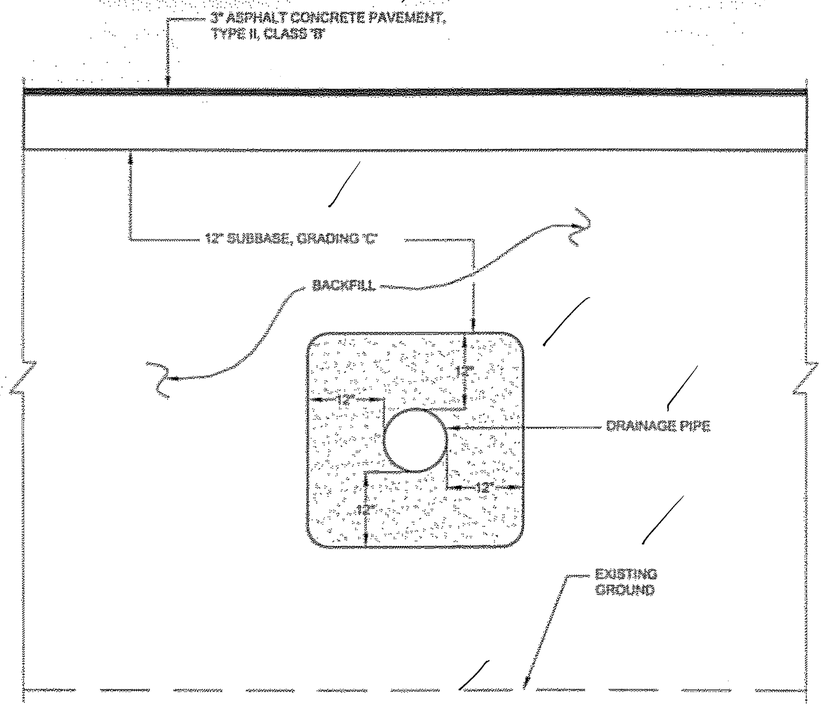
POW-COFFMAN COVE
FERRY TERMINAL

SIDEWALK LAYOUT
STA. 22+00 LT TO 23+50 LT

PROJECT DESIGNATION NUMBER
STP-0003(66) – 67844

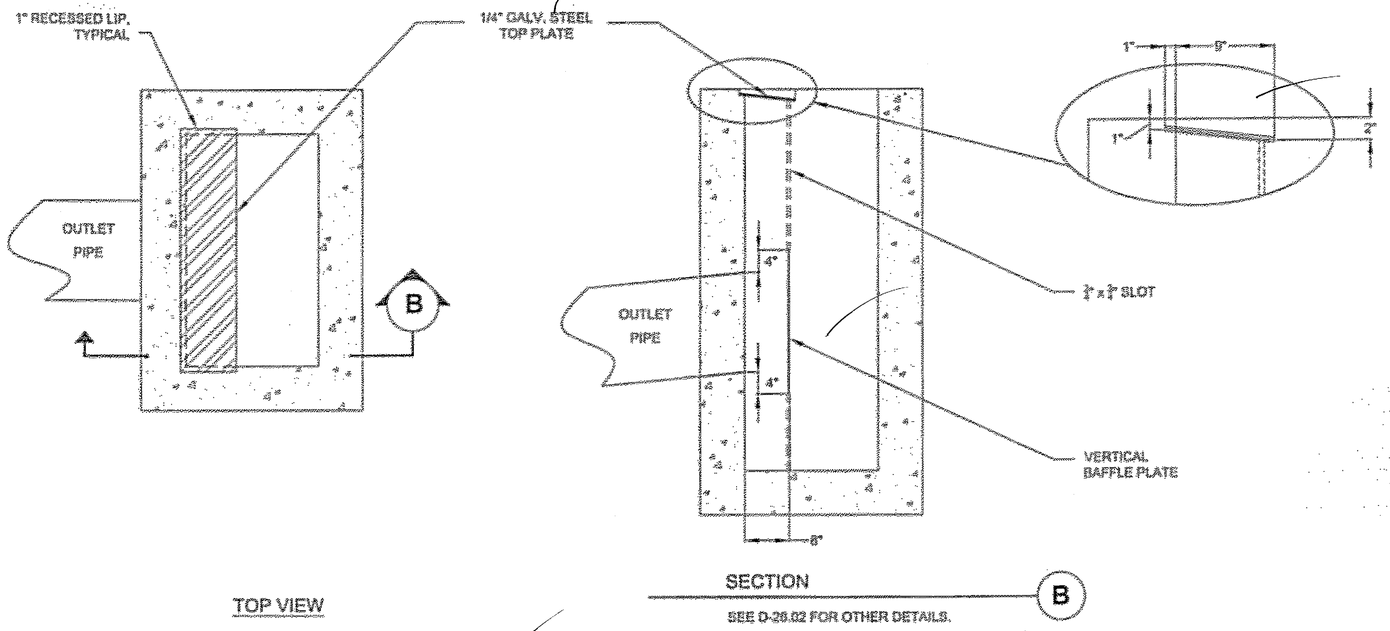
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ALASKA	2005
SHEET NUMBER	TOTAL SHEETS
E8	26

2/07



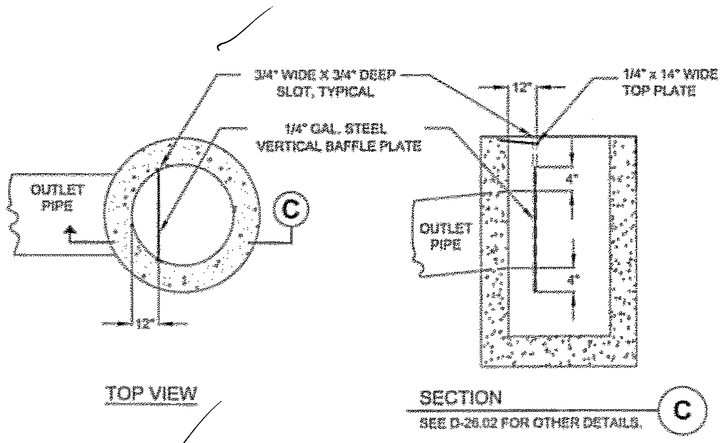
DRAINAGE PIPE BEDDING DETAIL

NTS



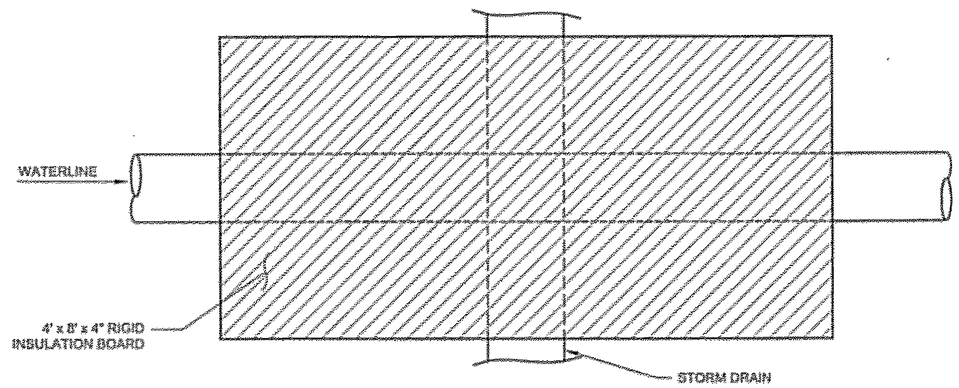
TYPE 'A' INLET WITH TOP & VERTICAL BAFFLE PLATES

NTS



BAFFLE PLATE 48"Ø STORM DRAIN MANHOLE

NTS



NOTE:
INSULATE WHEN STORM DRAIN CROSSES WATERLINE.

INSULATION PLAN

NTS

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

DESIGNED BY: B. BLACKBURN

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
SOUTHEAST REGION DESIGN & ENGINEERING SERVICES DIVISION
POW-COFFMAN COVE
FERRY TERMINAL
PROJECT NO. 67844 ~ STP-0003(66)

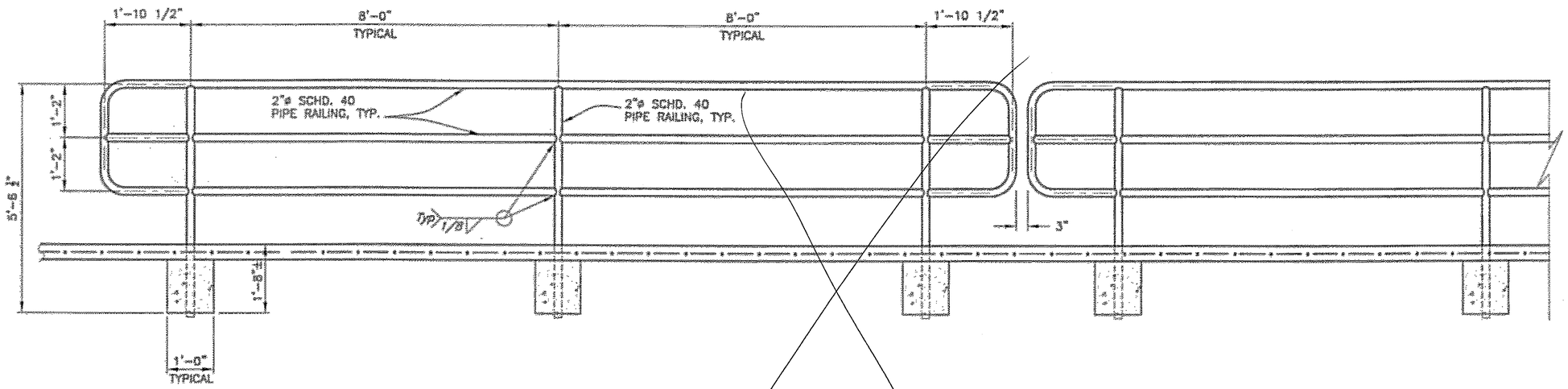
Storm Drain Details

CHECKED BY:
DRAWN/REVISED BY: DR MINT

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PLOT:

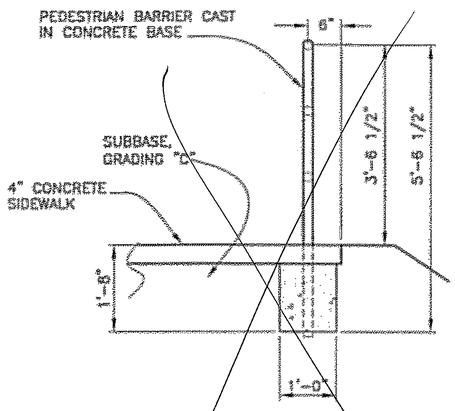
REVISIONS NO.	DATE	DESCRIPTION	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			STP-003(66) 67844	2005	G1	26

JJB 2/07



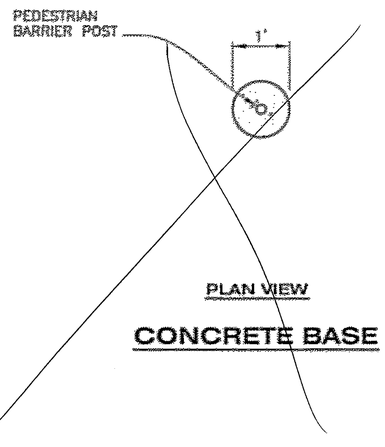
PROFILE

PEDESTRIAN BARRIER



END VIEW

PEDESTRIAN BARRIER



PLAN VIEW

CONCRETE BASE

CO NO 1 CHanges NOT USED

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

DESIGNED BY: D. Blackburn
DRAWN/REVISED BY: DR DODGE
CHECKED BY: D. Blackburn
PATH: G:\Pow\67844\DR\Plan Sh\G-Railing Details.dwg
PLOT: PSPACE 1=1

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
SOUTHEAST REGION DESIGN & ENGINEERING SERVICES DIVISION
POW-COFFMAN COVE
FERRY TERMINAL
PROJECT NO. 67844 ~ STP-0003(66)

PEDESTRIAN BARRIER DETAILS

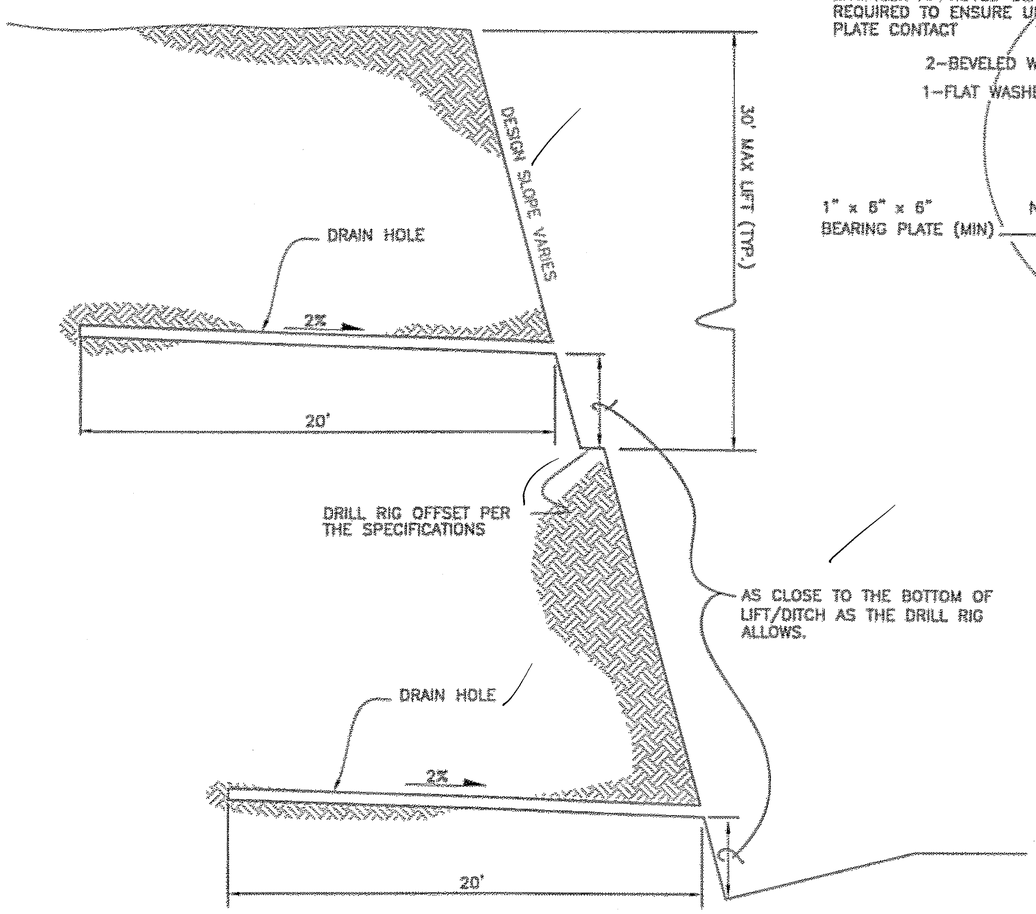
Mon, 14/Mar/05 09:05AM
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REVISIONS NO.	DATE	DESCRIPTION	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			STP-003(66) 67844	2005	G2	26

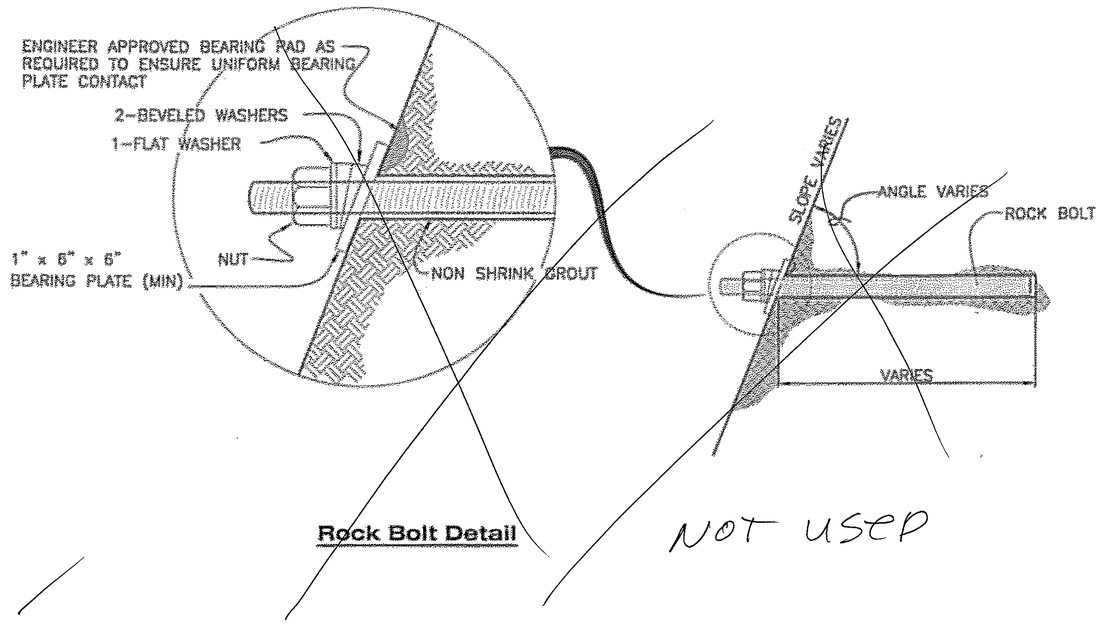
V GB 2/07

Notes:

1. DRAIN HOLES WILL BE 20' O.C. AND ADJUSTED TO INTERSECT WATER CARRYING DISCONTINUITIES IN THE BEDROCK.
2. DRAIN HOLES SHALL BE 2" IN DIAMETER MINIMUM.



Rock Slope Drain Hole Detail



Rock Bolt Detail

NOT USED

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

DESIGNED BY: D. Blackburn

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
& PUBLIC FACILITIES
SOUTHEAST REGION DESIGN &
ENGINEERING SERVICES DIVISION
POW-COFFMAN COVE
FERRY TERMINAL
PROJECT NO. 67844 ~ STP-0003(66)

STATE OF ALASKA — 40th — Daryl R. Blackburn — CE-10021 — Registered Professional Engineer

3/15/05

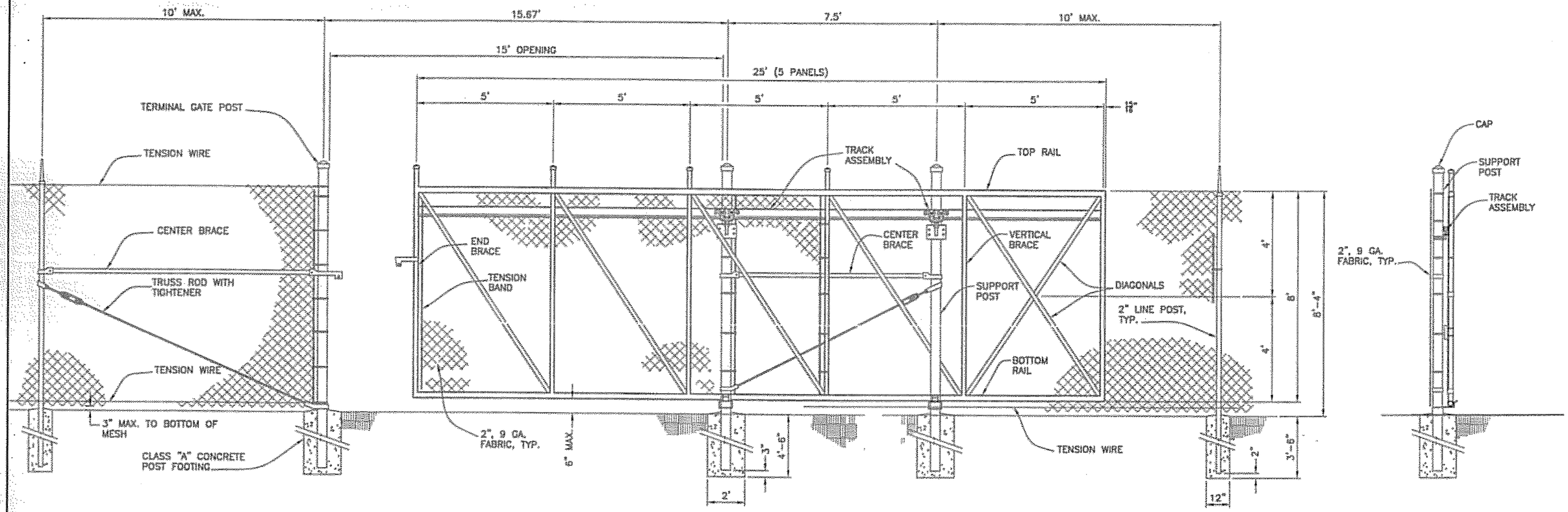
CHECKED BY: D. Blackburn
DRAWN/REVISED BY: DR DODGE

ROCK BOLT AND DRAIN HOLE DETAILS

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PLOT: PSPACE 1=1 — Tab: G3

REVISIONS NO.	DATE	DESCRIPTION	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			STP-003(66) 67844	2005	G3	26

✓ GM 2/07



ELEVATION

SECTION

SLIDING GATE DETAIL

CONCRETE BASE

FENCING NOTES:

1. FENCE FABRIC SHALL BE 9 GA. WIRE WOVEN IN A 2" MESH. FENCING SHALL BE 8' TALL.
2. NOT ALL OF CHAINLINK FENCE AND MISC. FENCING HARDWARE IS SHOWN IN THIS DETAIL. REFER TO DOT/PF STANDARD DETAIL, DRAWING No. F-01.01 FOR FURTHER DETAILS.

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

DESIGNED BY: D. Blackburn

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

POW-COFFMAN COVE
FERRY TERMINAL
PROJECT NO. 67844 ~ STP-0003(66)

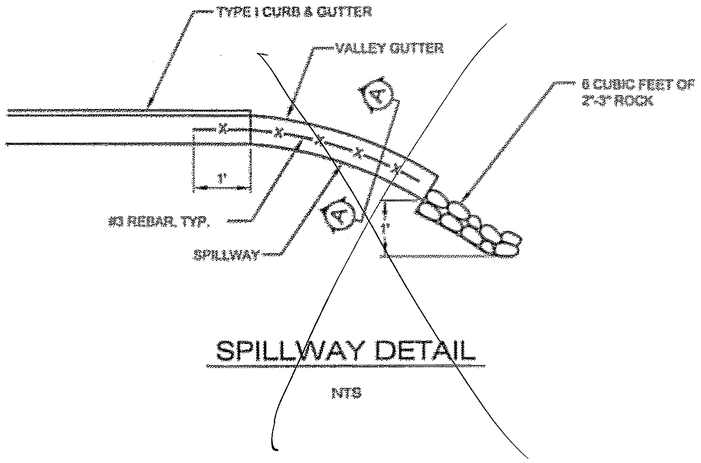
16 FT. SLIDING GATE DETAILS

STATE OF ALASKA — 49th — Doug R. Blackburn — 12-10052 — REGISTERED PROFESSIONAL ENGINEER
3/15/05

CHECKED BY: D. Blackburn
DRAWN/REVISED BY: DR DODGE
PATH:
PLOT:

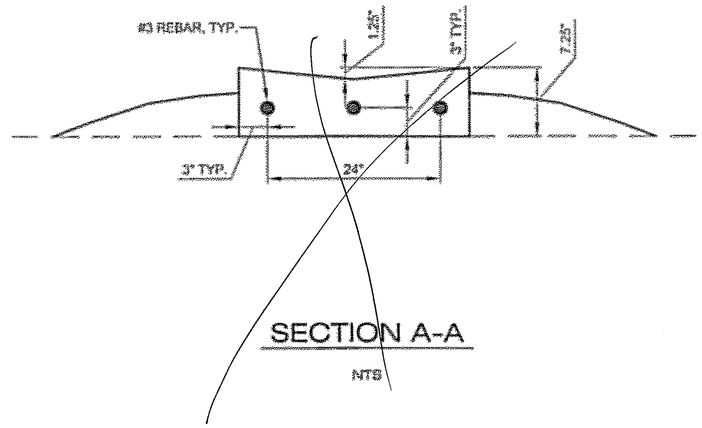
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			STP-003(66) 67844	2005	G4	26

✓ GB 2/07



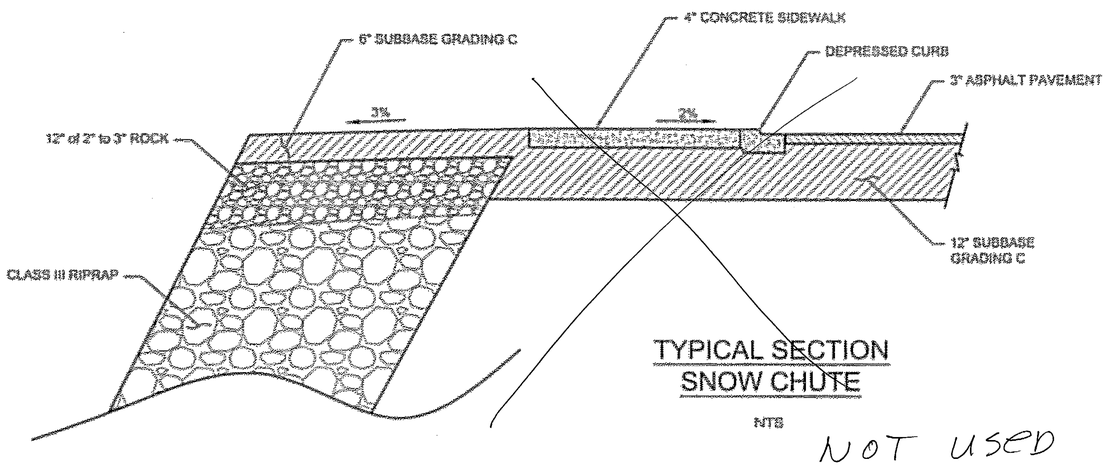
SPILLWAY DETAIL

NTS



SECTION A-A

NTS



TYPICAL SECTION
SNOW CHUTE

NTS

NOT USED

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Tue, 15/Mar/05 09:17AM dodge
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TAB: G5

ADDENDUM NUMBER

ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION

POW-COFFMAN COVE
FERRY TERMINAL
STP-0003(66) ~ 67844

MISCELLANEOUS DETAILS

DESIGNED BY: D. BLACKBURN

STATE OF ALASKA
49th
Doug R. Blackburn
CE-10059
REGISTERED ENGINEER
3/15/05

CHECKED BY: STAFF

DRAWN/REVISED BY: DR DODGE

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

POW-COFFMAN COVE
FERRY TERMINAL

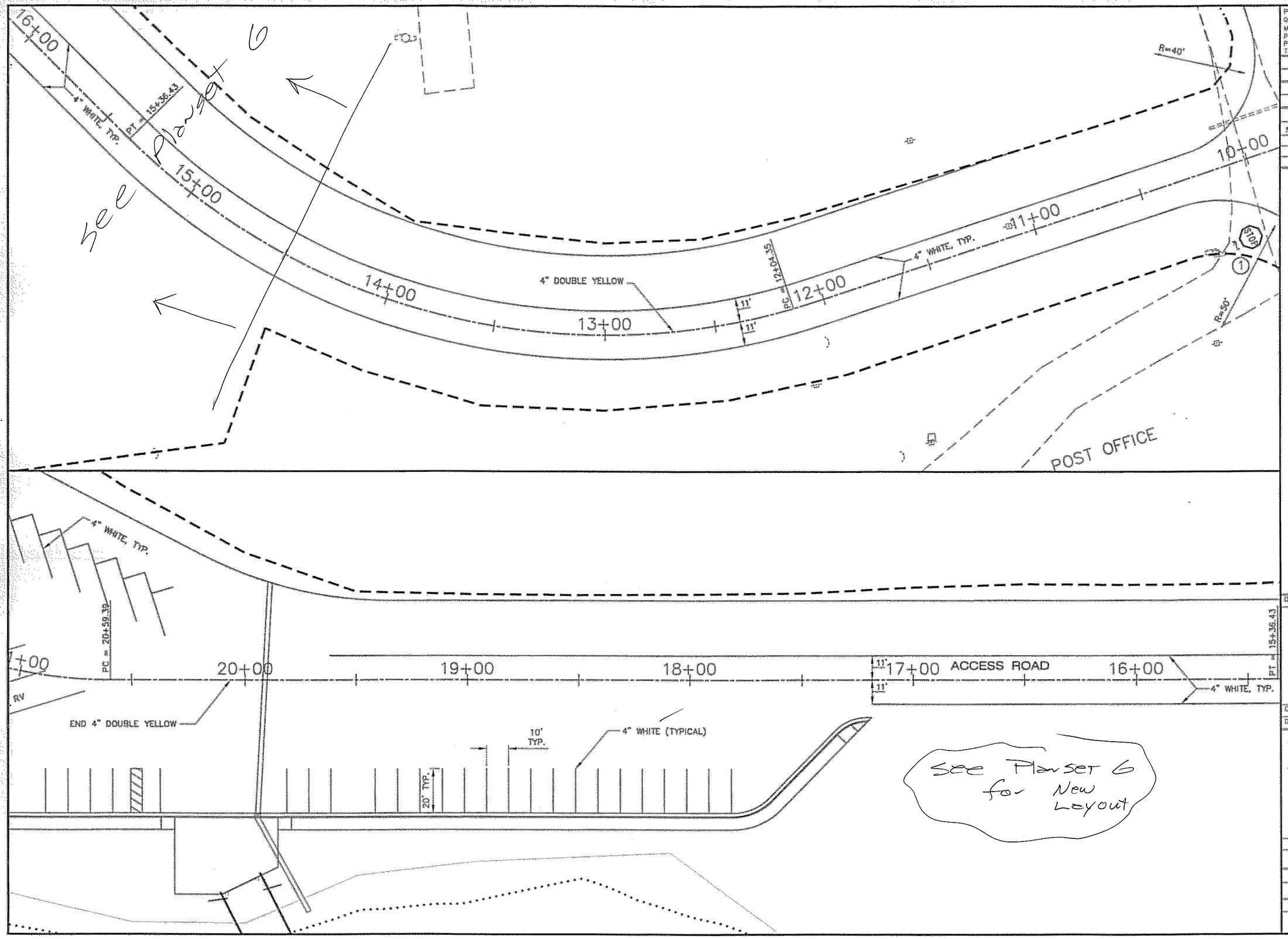
Miscellaneous Details

PROJECT DESIGNATION NUMBER

STP-0003(66) ~ 67844

STATE	YEAR
ALASKA	2005
SHEET NUMBER	TOTAL SHEETS
G5	26

V GMB 2/07



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TAB: J1

ADDENDUM NUMBER

ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION

POW-COFFMAN COVE
FERRY TERMINAL
STP-0003(66) – 67844

Striping Plan

DESIGNED BY: D. Blackburn

STATE OF ALASKA
49th
Craig R. Blackburn
CE-12052
REGISTERED PROFESSIONAL ENGINEER
3/15/05

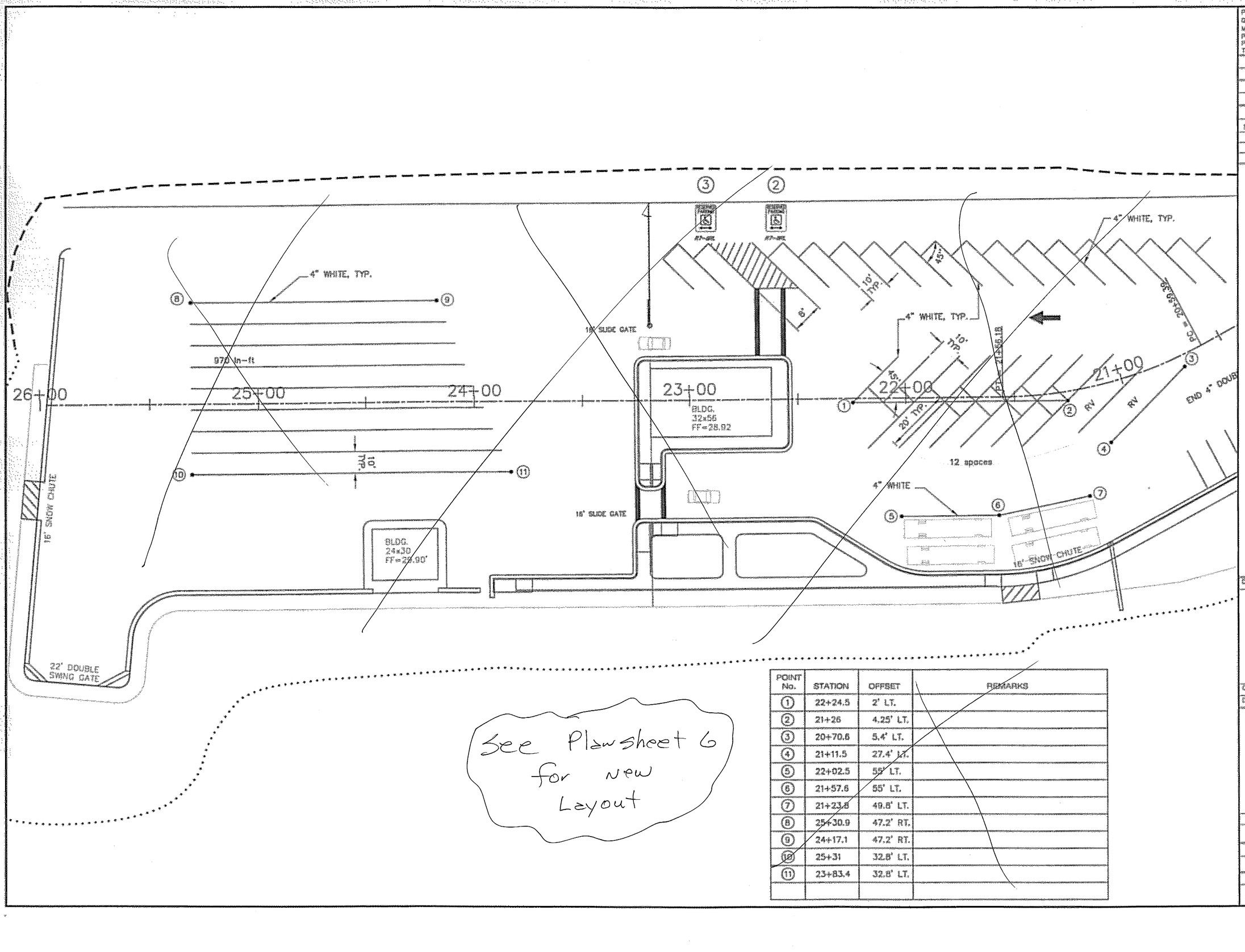
CHECKED BY: D. Blackburn
DRAWN/REVISED BY: B. Bennett

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
SOUTHEAST REGION DESIGN & ENGINEERING SERVICES DIVISION
POW-COFFMAN COVE
FERRY TERMINAL

Striping Plan

PROJECT DESIGNATION NUMBER	
STP-0003(66) – 67844	
STATE	YEAR
ALASKA	2005
SHEET NUMBER	TOTAL SHEETS
J1	26

2/07



POINT No.	STATION	OFFSET	REMARKS
①	22+24.5	2' LT.	
②	21+26	4.25' LT.	
③	20+70.6	5.4' LT.	
④	21+11.5	27.4' LT.	
⑤	22+02.5	55' LT.	
⑥	21+57.6	55' LT.	
⑦	21+23.8	49.8' LT.	
⑧	25+30.9	47.2' RT.	
⑨	24+17.1	47.2' RT.	
⑩	25+31	32.8' LT.	
⑪	23+83.4	32.8' LT.	

See Plansheet 6 for new Layout

PATH:
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ADDENDUM NUMBER
ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION

POW-COFFMAN COVE
FERRY TERMINAL
STP-0003(66) ~ 67844

Striping Plan

DESIGNED BY: D. Blackburn

STATE OF ALASKA
49th
Doug H. Blackburn
CE-10052
REGISTERED PROFESSIONAL ENGINEER
3/15/05

CHECKED BY: D. Blackburn
DRAWN/REVISED BY: B. Bennett

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
SOUTHEAST REGION DESIGN & ENGINEERING SERVICES DIVISION
POW-COFFMAN COVE
FERRY TERMINAL

Striping Plan

PROJECT DESIGNATION NUMBER	
STP-0003(66) ~ 67844	
STATE	YEAR
ALASKA	2005
SHEET NUMBER	TOTAL SHEETS
J2	26

PROJECT AREA
20.6 ACRES

EROSION & SEDIMENT CONTROL QTY'S	
ITEM	QUANITY
CHECK DAMS	10 EA.
SILT FENCE	1,300 FT.
INLET SEDIMENT TRAP	2 EA.

AREA OF DISTURBANCE	
ITEM	AREA (ACRES)
ACCESS ROAD	3.2
STAGING AREA	3.7
UPLANDS ROCK STORAGE SITE 1	3.3
UPLANDS ROCK STORAGE SITE 2	3.9
TOTAL:	14.1

TRACT G

TRACT CC-1

TRACT CC-3

NEPTUNE DRIVE (PLATTED ROAD ONLY - NO ACCESS)

19+00 18+00 17+00 **ACCESS ROAD** 16+00 15+00 14+00 13+00 12+00 11+00 10+00

U.S.S. 10099 U.S.F.S.

LEGEND:

- DRAINAGE VECTOR:
- CHECK DAM:
- SILT FENCE OR BERM: SF SF
- INLET SEDIMENT TRAP:

PATH:
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Tue, 15/Mar/05 09:15AM drudge
PLOT:
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TAB: K1

ADDENDUM NUMBER

ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION

POW-COFFMAN COVE
FERRY TERMINAL
STP-0003(66) – 67844

EROSION & SEDIMENT CONTROL PLANS

DESIGNED BY: R. R. ACKERMAN

STATE OF ALASKA
49th
Doug R. Stockburn
CE-10052
REGISTERED PROFESSIONAL ENGINEER

3/15/05

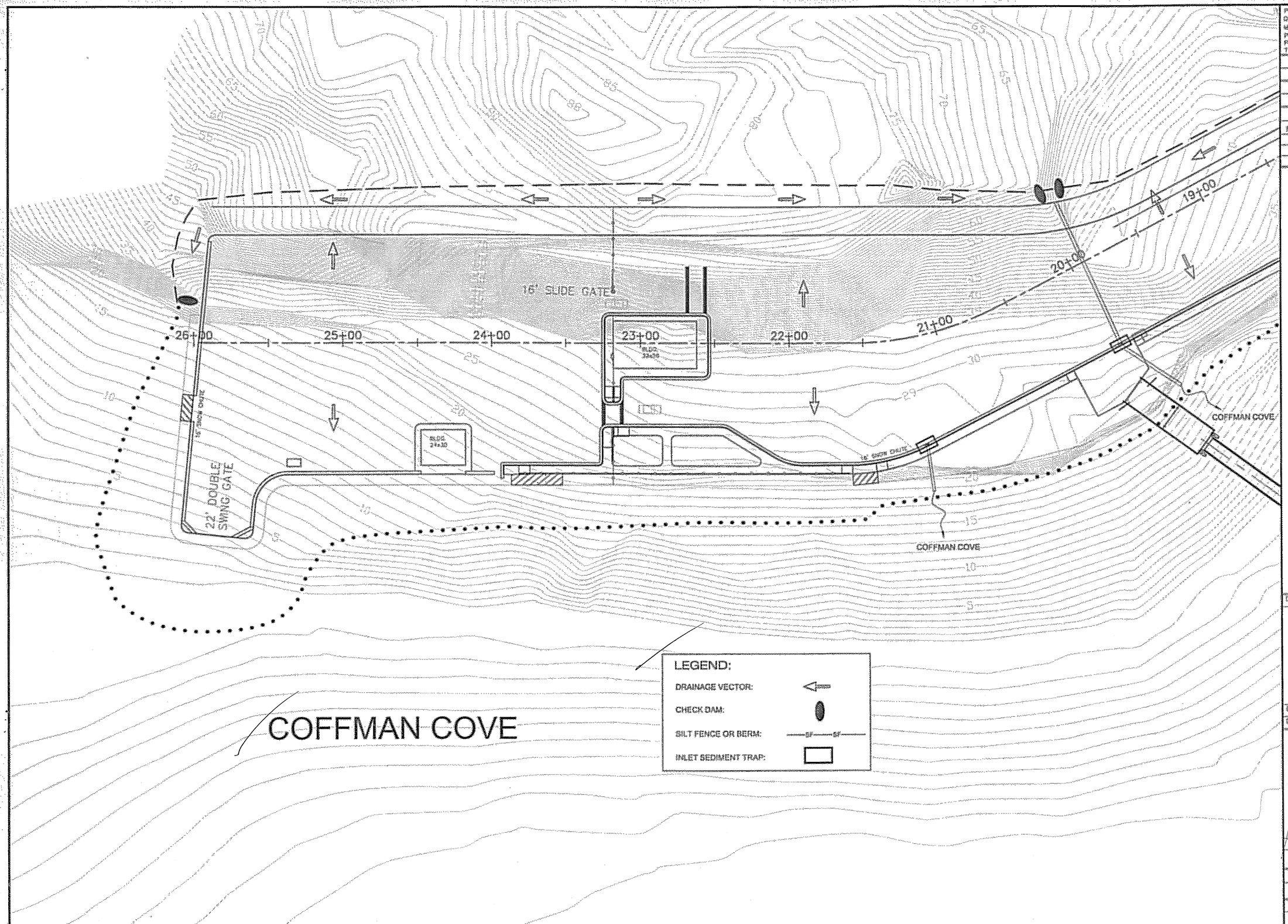
CHECKED BY: R. R. ACKERMAN

DRAWN/REVISED BY: DR PRIDE

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
SOUTHEAST REGION DESIGN & ENGINEERING SERVICES DIVISION
POW–COFFMAN COVE
FERRY TERMINAL
Erosion & Sediment Control Plans

PROJECT DESIGNATION NUMBER	
STP-0003(66) – 67844	
STATE	YEAR
ALASKA	2005
SHEET NUMBER	TOTAL SHEETS
K1	26

✓ 2/07



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ADDENDUM NUMBER

ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION

POW-COFFMAN COVE
FERRY TERMINAL
STP-0003(66) ~ 67844

EROSION & SEDIMENT CONTROL PLANS

DESIGNED BY: R. R. ACKERMAN

STATE OF ALASKA
49th
Douglas R. Blackburn
CE-10052
PROFESSIONAL ENGINEER
3/15/05

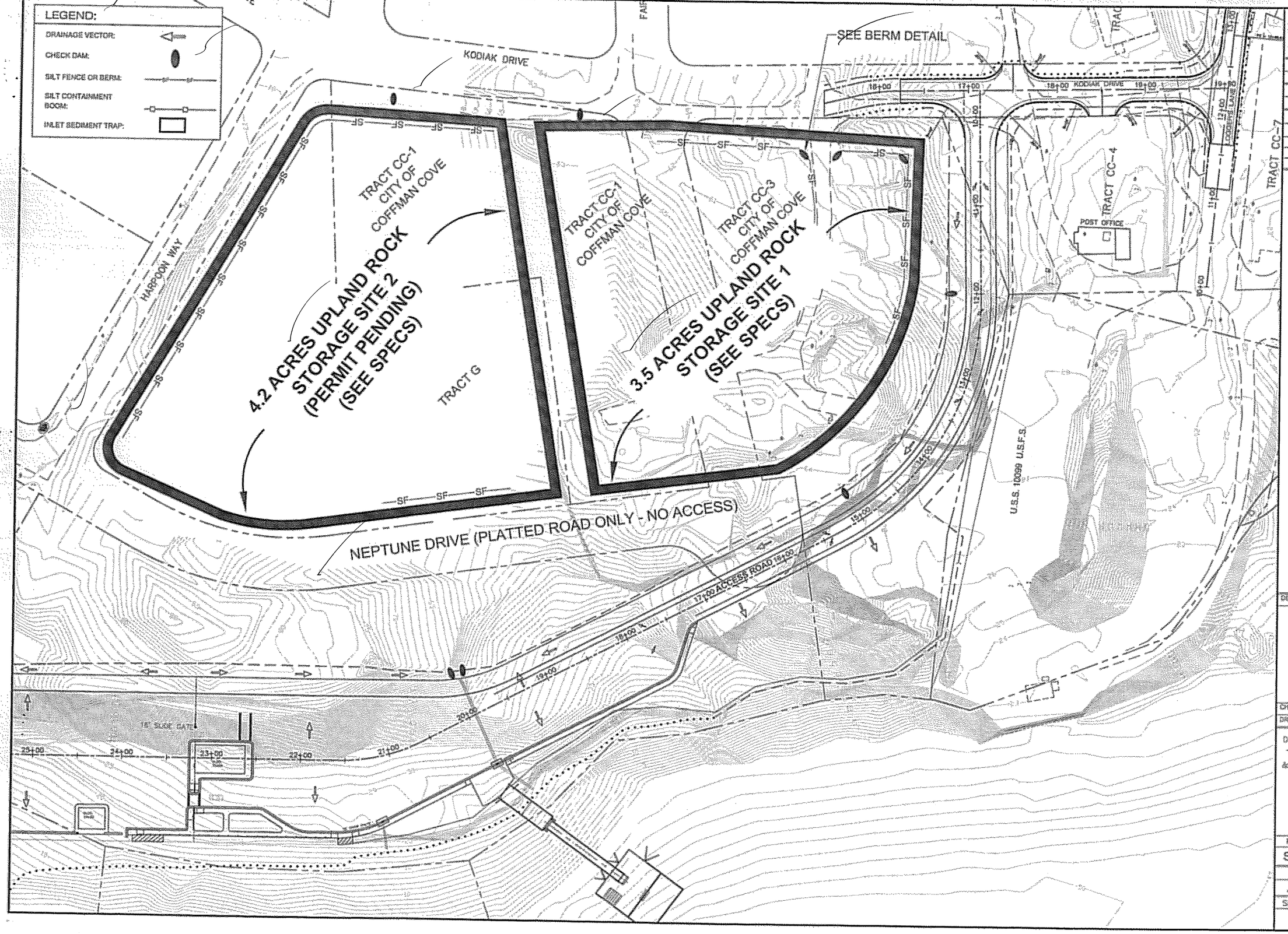
CHECKED BY: R. R. ACKERMAN

DRAWN/REVISED BY: DR DRDGE

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
SOUTHEAST REGION DESIGN & ENGINEERING SERVICES DIVISION
POW-COFFMAN COVE
FERRY TERMINAL
Erosion & Sediment Control Plans

PROJECT DESIGNATION NUMBER	
STP-0003(66) ~ 67844	
STATE	YEAR
ALASKA	2005
SHEET NUMBER	TOTAL SHEETS
K2	26

✓GD 2/07



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TAB: K3

ADDENDUM NUMBER

ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION

POW-COFFMAN COVE
FERRY TERMINAL
STP-0003(66) – 67844

EROSION & SEDIMENT CONTROL PLANS

DESIGNED BY: D. BLACKBURN

STATE OF ALASKA
10th
Doug M. Blackburn
CE-10053
REGISTERED PROFESSIONAL ENGINEER
3/15/05

CHECKED BY: D. BLACKBURN

DRAWN/REVISED BY: DR MMDF

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
SOUTHEAST REGION DESIGN & ENGINEERING SERVICES DIVISION
POW–COFFMAN COVE FERRY TERMINAL
Erosion & Sediment Control Plans

PROJECT DESIGNATION NUMBER	
STP-0003(66) – 67844	
STATE	YEAR
ALASKA	2005
SHEET NUMBER	TOTAL SHEETS
K3	26

JJB 2/07

EROSION & SEDIMENT CONTROL NOTES:

1.) COFFMAN COVE, ALASKA
RAIN FALL: 100" / YEAR
SNOW FALL: 30" / YEAR

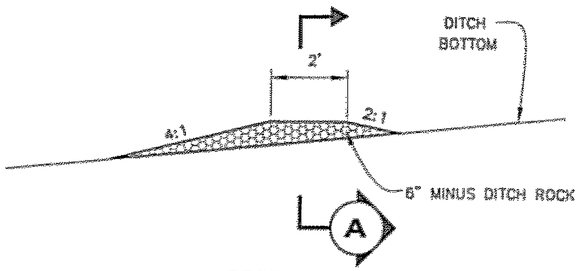
2.) FILL MATERIAL PLACED IN THE INTERTIDAL AREAS SHALL OCCUR DURING DE-WATERED CONDITIONS BY LOW TIDES.

3.) INLET SEDIMENT TRAPS, SILT FENCES AND TEMPORARY CHECK DAMS SHALL BE INSTALLED AT LOCATIONS SHOWN IN THE EROSION & SEDIMENT CONTROL PLAN.

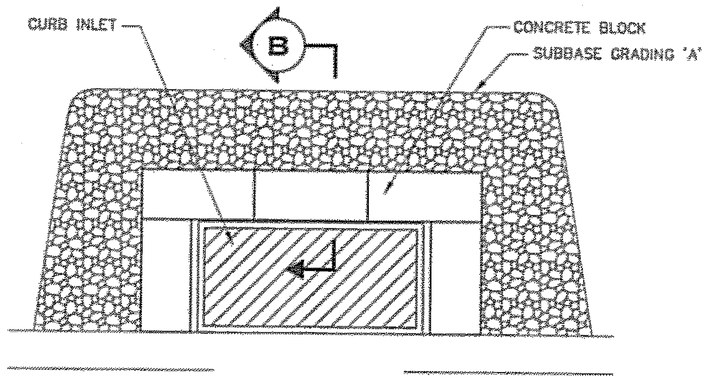
4.) INLET SEDIMENT TRAPS CAN ALSO BE "DANDY BAG" AS LISTED IN SECTION 641 OF SPECIFICATIONS.

IMPACT	CATEGORY
NO	WETLANDS
NO	IMPAIRED WATERS
NO	TIDAL WATERS
NO	THEATENED ENDANGERED SPECIES
REF: ENVIRONMENTAL ASSESSMENT	

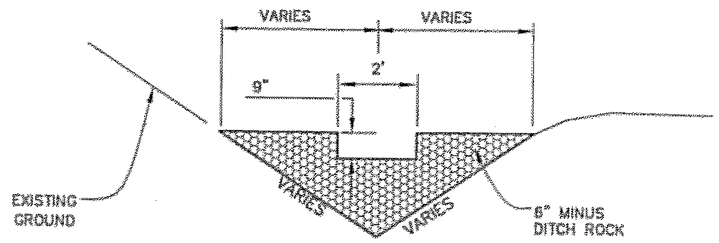
RUNOFF COEFFICIENTS		
AREA	BEFORE	AFTER
NONPAVED	0.7	0.7
PAVED	0.9	0.9
ROCK STORAGE SITE 1	0.7	0.7
ROCK STORAGE SITE 2	0.7	0.7



PROFILE SECTION

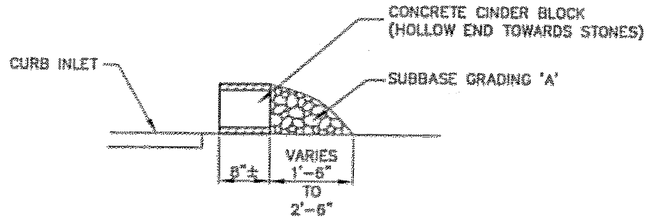


PLAN



SECTION A

CHECK DAM DETAIL



SECTION B

INLET SEDIMENT TRAP DETAIL

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Mon, 14/Mar/05 09:13AM drdodge
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ADDENDUM NUMBER

ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION

POW-COFFMAN COVE
FERRY TERMINAL
STP-0003(66) ~ 67844

EROSION & SEDIMENT CONTROL PLANS

DESIGNED BY: D. BLACKBURN

STATE OF ALASKA 40th
Doug W. Blackburn
CE-10052
3/15/05

CHECKED BY: STAFF

DRAWN/REVISED BY: DR DODGE

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

POW-COFFMAN COVE
FERRY TERMINAL

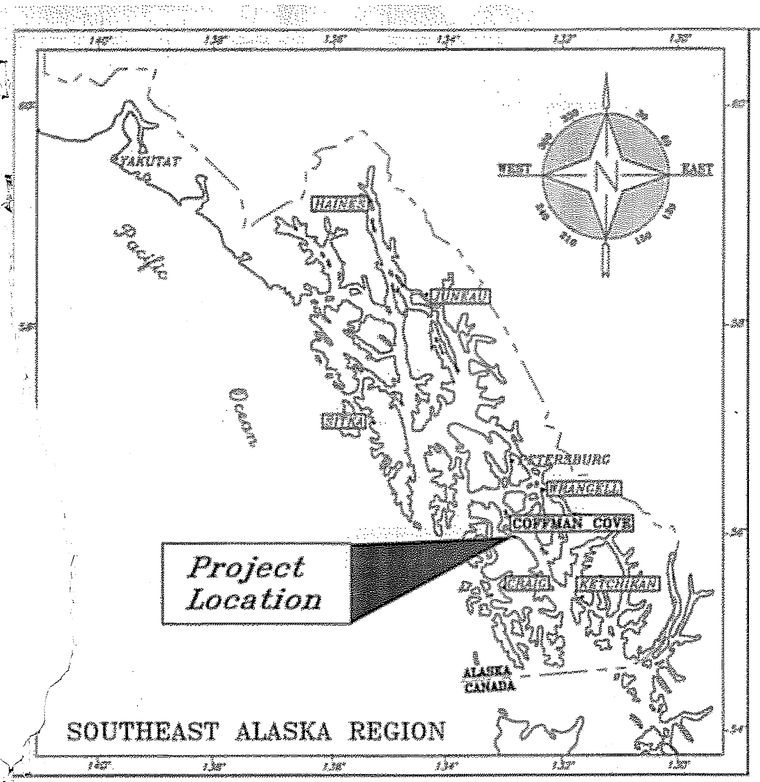
Erosion & Sediment Control Details

PROJECT DESIGNATION NUMBER
STP-0003(66) ~ 67844

STATE	YEAR
ALASKA	2005
SHEET NUMBER	TOTAL SHEETS
K4	26

✓ JB 2/07

AS-BUILT PLANS



SOUTHEAST ALASKA REGION

DESIGNED BY
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES
SOUTHEAST REGION
FOR THE

City of Coffman Cove

A PROJECT AT
COFFMAN COVE, ALASKA
PLANSET C

POW-COFFMAN COVE FERRY TERMINAL TO DOG CREEK BRIDGE

PROJECT No. 67667 ~ AK PFH 44-1(5)

INDEX OF SHEETS

SHEET NO.	DESCRIPTION
A1	TITLE SHEET
B1	TYPICAL SECTIONS
C1	ESTIMATE OF QUANTITIES
D1	MISCELLANEOUS SUMMARIES
E1-E7	PLAN & PROFILE SHEETS
G1	STORM DRAIN DETAILS
G2	MISCELLANEOUS DETAILS
K1-K4	EROSION & POLLUTION CONTROL PLANS
S1-S2	TRAFFIC CONTROL PLANS
S3-S5	SIGNING AND STRIPING PLANS

THE FOLLOWING DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES STANDARD DRAWINGS ARE INCLUDED IN THIS PROJECT:

A-1	D-01.02	D-20.03	D-22.01	D-26.02	D-35.00	E-13.00	F-01.01	F-03.01
I-20.13	I-21.01	S-09.10	S-01.00	S-05.01	S-20.10	S-30.03	T-23.00	

AS-BUILTS

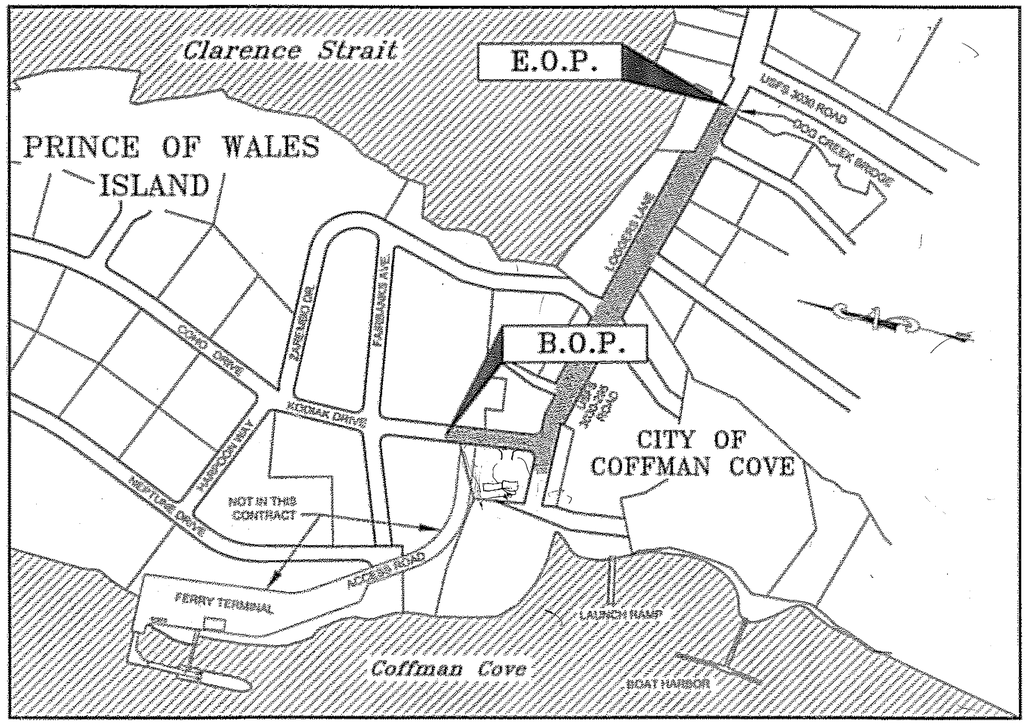
CONTRACTOR: SE ROAD BUILDERS
PE: GREG BROWNING
BEGIN: 6/05
END: 8/06

DESIGN DATA

DESIGN SPEED: 25 MPH

TIDAL DATA

EHW:	+22'
EHT:	+20'
MHHW:	+15.6'
ELW:	-4.5'



VICINITY MAP

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND
PUBLIC FACILITIES
SOUTHEAST REGION

APPROVED For Patrick J. Kemp / Preconstruction Engineer Date 3/14/05

APPROVED Gary L. Paxton / Director, S.E. Region Date 3/14/05

PROJECT NUMBER:	ENGINEER'S SEAL
67667	3/11/05 49th Doug R. Bastian 05-10021 REGISTERED PROFESSIONAL ENGINEER
DATE: MARCH 2005	
SHEET A1 OF 22	

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✓ 2/07

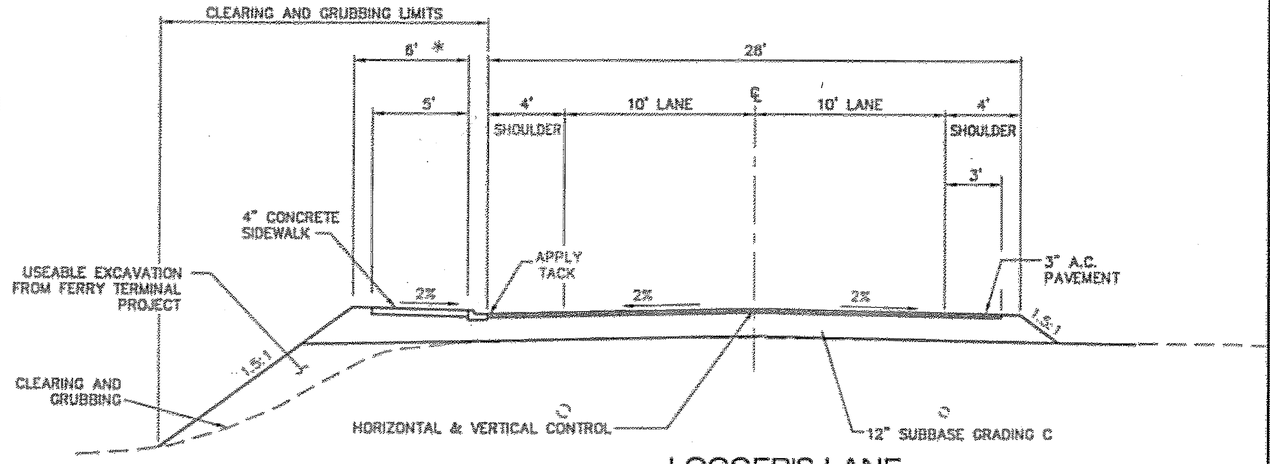
NOTES

1. SUPERELEVATION ROTATED ABOUT CENTERLINE.
2. CLEAR AND GRUB LEFT SIDE OF KODIAK DRIVE FOR RECONSTRUCTION.

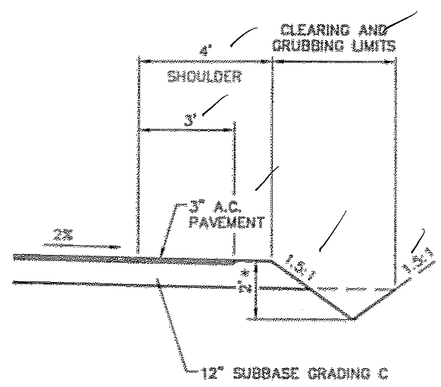
* SEE SLOPE TABLE.

SLOPE TABLE

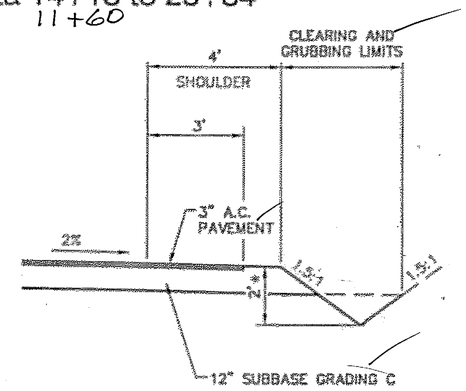
STATION	LT/RT	FORE SLOPE	BACK SLOPE	DEPTH DITCH	REMARKS
"K" 17+50	RT.	1.5:1	1.5:1	3'	
"K" 18+00	RT.	1.5:1	1.5:1	3'	
"K" 18+50	RT.	–	–	–	DRIVEWAY WITH 12" CULVERT
"K" 19+00	RT.	1.5:1	1.5:1	2'	
"K" 19+50	RT.	1.5:1	1.5:1	2'	DITCH TO PIPE (P-5)
"K" 18+50	LT.	1.5:1	1.5:1	2'	
"K" 19+00	LT.	1.5:1	1.5:1	2'	
"L" 13+45	RT.	1.5:1	1.5:1	2'	
"L" 17+15	RT.	1.5:1	1.5:1	2'	
"L" 19+80	RT.	1.5:1	1.5:1	2'	
"L" 20+00	RT.	1.5:1	1.5:1	2'	
"L" 20+50	RT.	1.5:1	1.5:1	2'	
"L" 21+00	RT.	1.5:1	1.5:1	2'	
"L" 21+50	RT.	1.5:1	1.25:1	2'	
"L" 22+00	RT.	1.5:1	1.5:1	1'	
"L" 22+50	RT.	1.5:1	1.5:1	1'	
"L" 23+00	RT.	1.5:1	1.5:1	1'	
"L" 23+50	RT.	1.5:1	–	2'	
"L" 24+00	RT.	1.5:1	–	2'	
"L" 24+50	RT.			–	
"L" 25+00	RT.			–	DRIVEWAY
"L" 25+50	RT.			–	
"L" 26+00	RT.			–	
"L" 11+11.7	LT./RT.	1.5:1	–	–	
"L" 11+50	LT.	1.5:1	1.5:1	2'	
"L" 22+50	LT.	1.5:1	1.25:1	1'	
"L" 24+00	LT.	1.5:1	1.5:1	1'	
"L" 13+00	LT.	1.5:1	1.5:1		DITCH ELEV. 23.90
"L" 13+50	LT.	1.5:1	1.5:1		DITCH ELEV. 23.34



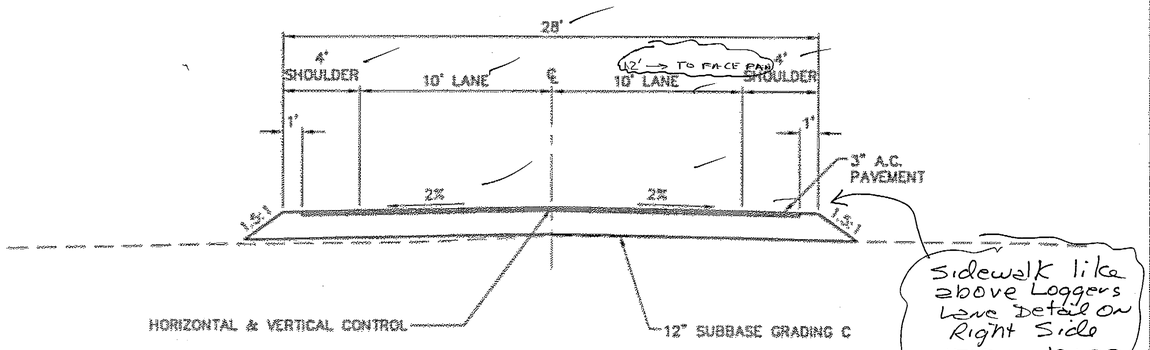
LOGGER'S LANE
'L' Sta ~~14+18~~ 11+60 to 25+84



Ditch Section
KODIAK DRIVE



Ditch Section
LOGGER'S LANE



KODIAK DRIVE 'K' Sta 15+00 to 19+80
LOGGER'S LANE 'L' Sta 11+61 to 14+18

PATH:
G:\Pow\67667\DR\Plan C\B-Typicals.dwg
Wed, 09/Mar/05 01:20PM drdodge
PLOT:
PSPACE 1=1(F) OR MSPACE 1=1(F)
TAB: B1

ADDENDUM NUMBER

ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION

POW-COFFMAN COVE
FERRY TERMINAL TO DOG CREEK BRIDGE
AK PFH 44-1(5) ~ 67667

TYPICAL SECTIONS

DESIGNED BY: D. BLACKBURN

STATE OF ALASKA
10th
Doug R. Blackburn
(E-10252)
REGISTERED PROFESSIONAL ENGINEER
3/11/05

CHECKED BY: STAFF
DRAWN/REVISED BY: DR DODGE

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
SOUTHEAST REGION DESIGN & ENGINEERING SERVICES DIVISION
POW-COFFMAN COVE FERRY TERMINAL TO DOG CREEK BRIDGE

TYPICAL SECTIONS

PROJECT DESIGNATION NUMBER
AK PFH 44-1(5) ~ 67667

STATE	YEAR
ALASKA	2005
SHEET NUMBER	TOTAL SHEETS
B1	22

VJB 2/07

CO ITEMS ADDED BY CHANGE ORDER

1 203(22) UNC. EXC/EARTH.; DRAIN. MODS - L.S. ALL REQ
6 401(9) Asphalt Price Adjust - L.S. - ALL REQ
1 603(21-24) 24" CPPP - LF. - 124
1 604(8) CURB DRAINS - EACH - 1
1 670(1) Painted TRAFFIC MARKINGS - L.S. ALL REQ

ESTIMATE OF QUANTITIES

ITEM No.	ITEM	UNIT	TOTAL
201 (3B)	CLEARING AND GRUBBING	LUMP SUM	ALL REQUIRED
202 (4)	REMOVAL OF CULVERT PIPE	LINEAR FOOT	~~256~~ 199
203 (3)	UNCLASSIFIED EXCAVATION Del. CO NO 1	~~CUBIC YARD~~	~~450~~
304 (2)	SUBBASE, GRADING C Del. CO NO 1	~~CUBIC YARDS~~	~~2,800~~
401 (1)	ASPHALT CONCRETE, TYPE II, CLASS B	TON	~~1,200~~ 1094.62
401 (2)	ASPHALT CEMENT, GRADE PG 58-28	TON	72 72.245
603 (21-12)	12 INCH CORRUGATED POLYETHYLENE PIPE	LINEAR FOOT	~~268~~ 524
603 (21-18)	18 INCH CORRUGATED POLYETHYLENE PIPE	LINEAR FOOT	~~685~~ 683
604 (1)	STORM SEWER MANHOLE CO 1	EACH	~~2~~ 3
604 (3)	ADJUST MANHOLE	EACH	~~4~~ 5
604 (5)	INLET, TYPE A	EACH	1
608 (1A)	CONCRETE SIDEWALK, 4 INCH THICK - CO NO 1	SQUARE YARD	~~657~~ 760.6
608 (6)	CURB RAMP	EACH	~~18~~ 4
609 (2)	CURB AND GUTTER, TYPE 1 - CO NO 1	LINEAR FOOT	~~1,280~~ 1386
609 (3)	BACKING CURB (NOT USED)	LINEAR FOOT	~~48~~ 0
615 (1)	STANDARD SIGNS	SQUARE FOOT	70 70.1
627 (10)	ADJUSTMENT OF VALVE BOX	EACH	6
635 (1)	INSULATION BOARD	MBM	~~0.5~~ .048
639 (3)	DRIVEWAY	EACH	~~14~~ 15
640 (1)	MOBILIZATION AND DEMOBILIZATION	LUMP SUM	ALL REQUIRED
641 (1)	EROSION AND POLLUTION CONTROL ADMINISTRATION	LUMP SUM	ALL REQUIRED
641 (3)	TEMPORARY EROSION AND POLLUTION CONTROL	LUMP SUM	ALL REQUIRED
641 (4)	TEMPORARY EROSION AND POLLUTION CONTROL AMENDMENTS (NOT USED)	CONTINGENT SUM	ALL REQUIRED
642 (1)	CONSTRUCTION SURVEYING	LUMP SUM	ALL REQUIRED
642 (3)	THREE PERSON SURVEY PARTY	~~HOUR~~	~~10~~ 0
642 (9)	REFERENCE EXISTING MONUMENT	EACH	1
642 (10)	MONUMENT CASE	EACH	1
643 (2)	TRAFFIC MAINTENANCE	LUMP SUM	ALL REQUIRED
643 (3)	PERMANENT CONSTRUCTION SIGNS	LUMP SUM	ALL REQUIRED
644 (1)	FIELD OFFICE	LUMP SUM	ALL REQUIRED
644 (2)	FIELD LABORATORY	LUMP SUM	ALL REQUIRED
644 (6)	VEHICLES	LUMP SUM	ALL REQUIRED
646 (1)	CPM SCHEDULING	LUMP SUM	ALL REQUIRED
670 (6)	PREFORMED PAVEMENT MARKINGS - Del CO NO 1	LUMP SUM	ALL REQUIRED

BASIS OF ESTIMATE

NUMBER	ITEM	QUANTITY
301 (1)	CRUSHED AGGREGATE BASE COURSE	1.96 TON/CUBIC YARD
304 (1A)	SUBBASE, GRADING C	1.80 TON/CUBIC YARD
401 (1)	ASPHALT CONCRETE, TYPE II CLASS "B"	120.0 LBS/SQ. YD./IN. DEPTH
401 (2)	ASPHALT CEMENT, PG 58-22	6.00% OF ITEM 401(1)
402 (1)	ASPHALT FOR TACK COAT	0.1 GAL./SQ. YD., 240 GAL/TON
641 (3)	TEMPORARY EROSION AND POLLUTION CONTROL	5 TEMPORARY DITCH BLOCKS
		750 LF SILT FENCE, DISPOSAL SITE 1
		700 LF SILT FENCE, DISPOSAL SITE 2

PATH: G:\Pow\67667\DR\Plan C\C-D-Estimate.dwg
Wed, 09/Mar/05 02:13PM drdodge
PLOT: PSPACE 1=1(F) OR MSPACE 1=1(F)
TAB: C1

ADDENDUM NUMBER

ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION

POW-COFFMAN COVE
FERRY TERMINAL TO DOG CREEK BRIDGE
AK PFH 44-1(5) - 67667

ESTIMATE OF QUANTITIES

DESIGNED BY: D. Blackburn

STATE OF ALASKA 49th Craig K. Blackburn 12-10053 REGISTERED PROFESSIONAL ENGINEER
3/10/05

CHECKED BY: K. Miller
DRAWN/REVISED BY: DR DODGE

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

POW-COFFMAN COVE FERRY TERMINAL TO DOG CREEK BRIDGE

ESTIMATE OF QUANTITIES

PROJECT DESIGNATION NUMBER
AK PFH 44-1(5) - 67667

STATE	YEAR
ALASKA	2005
SHEET NUMBER	TOTAL SHEETS
C1	22

UB 2/07

See Planset G FOR NEW TABLE

STORM DRAIN PIPE SUMMARY

PIPE No.	DIA. (IN.)	ENTRANCE			EXIT			LENGTH (FT.)	GRADE (%)	REMARKS
		INV. EL.	STATION	OFFSET	INV. EL.	STATION	OFFSET			
P-1	18	16.80	--	--	15.04	--	--	176	1.0	EXIT N 500704.4, E 100082.9
P-2	18	21.13	--	--	16.80	--	--	317	1.37	SEE S-1, S-2, S-3 FOR LOCATIONS
P-3	18	22.40	--	--	21.13	--	--	77	1.65	SEE S-1, S-2, S-3 FOR LOCATIONS
P-4	18	23.20	"L" 13+63.1	20.9' LT.	22.40			43	3.02	SEE S-1, S-2, S-3 FOR LOCATIONS
P-5	12	25.20	"L" 11+71.0	20.0' LT.	24.27	12+63.0	21.0' LT.	93	1.0	
P-6	12	23.50	"L" 14+23.0	28.0' LT.	23.25	13+77.0	22.0' LT.	47	0.53	
P-7	18	25.50	"L" 18+06.0	18.0' RT.	23.80	17+99.0	44.3' LT.	63	2.7	
P-8	12	29.24	"L" 20+62.3	18.6' RT.	29.00	19+87.3	29.7' LT.	75	0.32	
P-9	12	34.38	"K" 18+24	19.5' RT.	33.24	18+78.0	19.5' RT.	53	2.15	
P-10	18	28.00	"L" 24+83.5	27.0' RT.	26.67	25+39.4	28.0' LT.	55	2.42	
P-11	12	24.33	"L" 15+33	20.5' RT.	24.10	14+68.0	20.5' RT	65	0.38	

STORM DRAIN STRUCTURE SUMMARY

STRUCTURE No.	TYPE	FRAME OR LID	STRUCTURES		SUMP ELEV.	REMARKS
			STATION	OFFSET		
S-1	48" M.H.	FRAME EL. 20.30	--	--		N 500773.1, E 100245.3 (INCLUDE BAFFLE PLATES) FLAT HS 20 RATED FIELD INLET FRAME & GRATE
S-2	48" M.H.		--	--		N 500772.7, E 100581.8
S-3	TYPE "A" INLET	FRAME EL. 23.90	--	--		N 500843.0, E 100602.0 FLAT HS 20 RATED FIELD INLET FRAME & GRATE

STORM DRAIN PIPE REMOVAL SUMMARY

PIPE No.	DIA. (IN.)	STATION	OFFSET	LENGTH (FT.)	REMARKS
1	12	"K" 16+94	14.0' LT.	48	
2	24	--	48'	48	N 500755 E 100187 (SEE SHEET E5 IN FERRY TERMINAL PROJECT No. 67844)
3	12	"L" 13+62	--	81	
4	6	"L" 13+96	21.6' LT.	41	
5	18	"L" 25+39	28.0' RT.	38	
			TOTAL:	256	

SIGN SUMMARY

SIGN NO.	STATION	OFFSET L	OFFSET R	TYPE	LEGEND	FACING	WIDTH (IN)	HEIGHT (IN)	AREA (SQ FT)	POST SIZE	POST TYPE	REMARKS
1	"L" 27+50	28		I-100	FERRY SYMBOL	WB	24	24	4.00	2"	PST	
2	"L" 27+50	28			ARROW UP	WB	6	24	1.00			UNDER SIGN 1
3	"L" 24+50	28		R2-1	SPEED LIMIT 25	WB	24	30	5.00	2"	PST	
4	"L" 20+50		24	R1-1	STOP	NB	36	36	9.00	2"	PST	
5	"L" 17+85		24	R1-1	STOP	NB	36	36	9.00	2"	PST	
6	"L" 17+40	28		R1-1	STOP	SB	36	36	9.00	2"	PST	
7	"L" 13+80	28		R1-1	STOP	SB	36	36	9.00	2"	PST	
8	"L" 13+50	24		I-100	FERRY SYMBOL	WB	24	24	4.00	2"	PST	
9	"L" 13+50	24			ARROW RIGHT	WB	24	6	1.00			UNDER SIGN 8
10	"L" 11+90	28		R1-1	STOP	SB	36	36	9.00	2"	PST	
11	"L" 11+90	28		D3-1	KODIAK DR	EB/WB	42	8	2.33			ABOVE SIGN 10
12	"L" 11+90	28		D3-1	LOGGER'S LN	NB/SB	48	8	2.67			ABOVE SIGN 10
13	"K" 18+00	24		I-100	FERRY SYMBOL	NB	24	24	4.00	2"	PST	
14	"K" 18+00	24			ARROW LEFT	NB	24	6	1.00			UNDER SIGN 13
								TOTAL:	70			

MANHOLE ADJUSTMENT SUMMARY

STATION	OFFSET	
"L" 14+88.5	9.9' RT.	
"L" 17+18.5	12.4' RT.	
"L" 22+58.0	16.0' RT.	
"L" 18+75.0	12.3' RT.	

CURB CUT SUMMARY

Driveways

	STATION	WIDTH (FT.)	REMARKS
1	"L" 14+94 LT	28	
2	"L" 19+04.5 LT	32	
3	"L" 21+31.5 LT	16	
4	"L" 22+03.8 LT	16	
5	"L" 25+24 LT	28	

DRIVEWAY SUMMARY

	STATION	WIDTH (FT.)	REMARKS
6	"K" 17+50.0 LT	22.9	ALL RADIUSES ARE TO EDGE OF ASPHALT
7	"K" 18+51.0 RT	26.9	
8	"K" 13+97.2 LT	24	
9	"L" 17+50.0 RT	21	
10	"L" 17+70.3 LT	28	
11	"L" 20+24.9 RT	25	
12	"L" 21+78.7 RT	12	
13	"L" 24+95.3 RT	14	
14	"L" 25+17.3 RT	9	
15	"L" 25+86.6 RT	9	
	"L" 15+00.0 LT	26	

ADDED Approach @ KODIAK DRIVE TENNIS COURT — 19400 eqft

VALVE BOX ADJUSTMENT SUMMARY

STATION	OFFSET	REMARKS
"L" 17+46.6	21.5' RT.	
"L" 17+68	5'.0 LT.	
"L" 20+30	5'.2 LT.	
"L" 20+46.3	11.0' LT.	
"L" 25+30.2	8.0' LT.	
"L" 25+36.1	8.2' LT.	

DRIVEWAY RADIUS DATA

STATION	OFFSET	REMARKS
"K" 16+55.68	53.00 RT	R=40'
"K" 17+15.19	38.00 LT	R=25'
"K" 17+85.19	38.00 LT	R=25'
"K" 17+79.68	63.00 RT	R=50'
"K" 18+12.83	38.00 RT	R=25'
"K" 18+88.83	38.00 RT	R=25'
"K" 19+34.45	53.00 RT	R=40'
"K" 19+46.95	53.00 LT	R=40'
"L" 13+67.41	33.00 LT	R=20'
"L" 14+27.70	34.00 LT	R=20'
"L" 14+57.00	43.00 RT	R=30'
"L" 15+43.00	43.00 RT	R=30'
"L" 17+11.91	38.00 RT	R=25'
"L" 17+93.96	43.00 RT	R=30'
"L" 17+16.26	54.00 LT	R=40'
"L" 18+24.29	54.00 LT	R=40'
"L" 19+87.37	39.00 RT	R=26'
"L" 20+62.37	39.00 RT	R=26'
"L" 21+57.55	34.00 RT	R=21'
"L" 22+06.46	29.00 RT	R=16'
"L" 24+74.66	29.00 RT	R=16'
"L" 23+54.48	34.00 RT	R=21'
"L" 25+94.82	23.39 RT	R=10'

PATH: G:\Pow\67667\DR\Plan C\C-D-Estimate.dwg
Wed, 09/Mar/05 01:38PM dmdodge
PLOT: PSPACE 1=1(F) OR MSPACE 1=1(F)
TAB: D1

ADDENDUM NUMBER
ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION

POW-COFFMAN COVE
FERRY TERMINAL TO DOG CREEK BRIDGE
AK PFH 44-1(5) - 67667

MISCELLANEOUS SUMMARIES

DESIGNED BY: D. Blackburn

STATE OF ALASKA 49th — Doug W. Blackburn — 12-10057 — REGISTERED ENGINEER

3/11/05

CHECKED BY: K. Miller
DRAWN/REVISED BY: DR DODGE

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
SOUTHEAST REGION DESIGN & ENGINEERING SERVICES DIVISION
POW-COFFMAN COVE FERRY TERMINAL TO DOG CREEK BRIDGE

MISCELLANEOUS SUMMARIES

PROJECT DESIGNATION NUMBER	
AK PFH 44-1(5) - 67667	
STATE	YEAR
ALASKA	2005
SHEET NUMBER	TOTAL SHEETS
D1	22

✓ 2/07

NOTES:
1.) DRIVEWAY RADIUS ARE TO EDGE OF ASPHALT.

EARTHWORK
KODIAK DRIVE
"K" 15+36 TO "K" 19+80
EMBANKMENT 190 C.Y.

R=200.00
L=42.93
Tan=21.55
Δ=1°17'55"

N 501,146.83
E 100,450.28
="A" 9+70
="K" 17+12.89

BEGIN PAVING
STA. "K" 16+26

WETLANDS AREA
SEE 107-1.03 OF
SPECIAL PROVISIONS

MATCH EXISTING
STA. "K" 15+36

Monument Case

Added Pipe

Added Pipe

Added Sidewalk CO NO. 1

Added Slow-Down

TRACT CC-5

TRACT CC-4

TRACT CC-7

KODIAK DRIVE

LOGGERS LANE

S18°31'57"E
42.26

N83°25'58"E
29.6'

S06°34'02"E
372.80'

S83°25'58"W
234.35'

S83°25'58"E
89.91'

S89°55'57"E
285.62'

PC = 15+78.24

PT = 16+21.17

PC = 12+85.62

STA. "K" 19+93.97=
STA. "L" 12+25.50
N 500867.40
E 100462.46

BEGIN PAVING
STA. "L" 11+81.71

4" DIAMETER APPLE TREE

Plan

44.' VC
PVI STA = 15+80
PVI ELEV = 53.90
A.D. = -15.06
K = 2.92
BVCS: 15+38
BVCE: 53.96
-2.08%
EVCS: 15+82
EVCE: 49.73
-17.14%
BVCS: 15+95
BVCE: 47.50

70.' VC
PVI STA = 16+30
PVI ELEV = 41.50
A.D. = 16.14
K = 4.34
EVCS: 16+65
EVCE: 41.15
-1.00%

70.' VC
PVI STA = 17+60
PVI ELEV = 40.20
A.D. = -5.00
K = 14.00
BVCS: 17+25
BVCE: 40.55
EVCS: 17+95
EVCE: 38.10
-6.00%
BVCS: 17+85
BVCE: 38.10

70.' VC
PVI STA = 18+30
PVI ELEV = 36.00
A.D. = 5.00
K = 14.00
EVCS: 18+65
EVCE: 35.65
-1.00%
BVCS: 18+70
BVCE: 35.60

80.' VC
PVI STA = 19+00
PVI ELEV = 35.30
A.D. = -8.36
K = 7.18
EVCS: 19+30
EVCE: 32.49
-9.36%
BVCS: 19+50
BVCE: 30.82

40.' VC
PVI STA = 19+70
PVI ELEV = 28.75
A.D. = 8.14
K = 4.91
EVCS: 19+90
EVCE: 28.51
-1.22%

60
40
20
DATUM ELEV
15.00

56.0
53.9 53.46
44.1 46.67
37.2 41.56
38.3 40.80
37.1 40.08
35.7 37.81
34.7 35.88
33.9 34.67
29.0 30.62
27.2

16+00 17+00 18+00 19+00

Profile

PATH:
O:\Pow\67667\DR\Plan C\E-Existing Road PA
Wed, 09/Mar/05 03:26PM dmdodge
PLOT:
PSPACE 1=1(F) DR MSPACE 1=1(F)
TAB: E1

ADDENDUM NUMBER
ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION

POW-COFFMAN COVE
FERRY TERMINAL TO DOG CREEK BRIDGE
AK PFH 44-1(5) ~ 67667

PLAN & PROFILE

DESIGNED BY: D. BLACKBURN

STATE OF ALASKA
10th
Douglas A. Blackburn
CE-10552
3/11/05

CHECKED BY: STAFF
DRAWN/REVISED BY: DR DODGE

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
SOUTHEAST REGION DESIGN & ENGINEERING SERVICES DIVISION
POW-COFFMAN COVE FERRY TERMINAL TO DOG CREEK BRIDGE

Plan & Profile

PROJECT DESIGNATION NUMBER	
AK PFH 44-1(5) ~ 67667	
STATE	YEAR
ALASKA	2005
SHEET NUMBER	TOTAL SHEETS
E1	22

3/11 2/07

NOTES:
1.) DRIVEWAY RADIUS ARE TO EDGE OF ASPHALT.

SAVE 4" DIAMETER APPLE TREE

FSR 3030-295

MATCH EXISTING STA. "L" 11+11.71

BEGIN PAVING STA. "L" 11+81.71

S89°55'57"E 285.62'

LOGGER'S LANE

TRACT CC-5

TRACT CC-7

WETLANDS AREA SEE 107-1.02 OF SPECIAL PROVISIONS

R=438.55
L=120.00
Tan=60.38
Δ=15°40'40"
e=2%
BFS 12+85.6
EFS 14+05.6
EST 14+75.6

SUPER ELEVATION DATA	
STATION	9 (LT) %
"L" 11+81.7	1.22
"L" 12+25.5	1.22

Added s/w

STA. "K" 19+93.97=
STA. "L" 12+25.50
N 500867.40
E 100482.48

PC = 12+85.62

SPILLWAY

15 DRAINAGE EASEMENT

24 INCH STORMDRAIN

R30.00'

S15°44'43"W 50.56'

P-1 P-2 P-3 P-4 P-5 P-6 P-11 S-1 S-2 S-3

Plan

HIGH POINT ELEV = 28.54
HIGH POINT STA = 12+02.54
PVI STA = 12+26
PVI ELEV = 28.69
A.D. = -2.23
K = 35.84
80.' VC

PVI STA = 11+11
PVI ELEV = 28.60
A.D. = 3.49
K = 8.60
30.' VC

PVI STA = 11+61
PVI ELEV = 28.39
A.D. = 3.12
K = 14.11
44.' VC

LOW POINT ELEV = 26.57
LOW POINT STA = 13+78.89
PVI STA = 13+52.49
PVI ELEV = 26.49
A.D. = 2.13
K = 37.49
80.' VC

BVCS: 10+96 BVCE: 28.59
EVCS: 11+26 EVCE: 27.14
BVCS: 11+39 BVCE: 27.60
EVCS: 11+83 EVCE: 28.49
BVCS: 11+86 BVCE: 28.51
EVCS: 12+66 EVCE: 27.98
BVCS: 13+12.49 BVCE: 27.16
EVCS: 13+92.49 EVCE: 28.60

0.09% 4.58% 0.46% -1.77%

DATUM ELEV. 0.0

25.5	25.4 26.54	25.5 26.60	25.8 27.95	27.2 28.54	26.9 28.23	25.2 27.38	25.5 26.68	25.5 26.62	25.8 26.80	25.8 26.99

10+00 11+00 12+00 13+00 14+00 15+00

Profile

PATH:
G:\Pow\67667\DR\Plan C\E-Existing Road Pln
Wed, 09/Mar/05 03:07PM dmadge
PLOT:
PSPACE 1=1(F) DR MSPACE 1=1(F)
TAB: E2

ADDENDUM NUMBER

ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION

POW-COFFMAN COVE
FERRY TERMINAL TO DOG CREEK BRIDGE
AK PFH 44-1(5) ~ 67667

PLAN & PROFILE

DESIGNED BY: D. R. ACKERMAN

STATE OF ALASKA 20th Douglas R. Blackburn GE-10052 REGISTERED PROFESSIONAL ENGINEER
3/11/05

CHECKED BY: STAFF

DRAWN/REVISED BY: DR DODGE

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

POW-COFFMAN COVE FERRY TERMINAL TO DOG CREEK BRIDGE

Plan & Profile

PROJECT DESIGNATION NUMBER	
AK PFH 44-1(5) ~ 67667	
STATE	YEAR
ALASKA	2005
SHEET NUMBER	TOTAL SHEETS
E2	22

2/07

U.S.S. 10099 U.S.F.S.

Added Pipe, Inlet for Driveway Ballfield To Replace Existing

ZAREMBO DR.

S15°44'43"W 57.13'

R=40'

U.S.S. 10099 U.S.F.S.

NOTE:
SEE SHEET E7 FOR INTERSECTION DETAILS

15+00 | 10' TYP. | 16+00 | LOGGER'S LANE | 17+00 | 18+00 | 19+00 | S74°15'17"E 1036.87'

P-11

R30.00'

S15°44'43"W 50.56'

R30.00'

R=25'

S15°44'43"W 29.87'

P-7

R=30'

R=28'

R=50.00
L=23.49
Tan=11.97
Δ=26°54'58"

New Pipe for Access to Proposed Pump Station

U.S.S. 10099 U.S.F.S.

BLOCK 10
LOT 6

Plan

PVI STA = 17+27.40
PVI ELEV = 27.81
A.D. = 1.42
K = 56.27
80.' VC

BVCE: 27.66 | BVCS: 16+87.40

EVCE: 28.52 | EVCS: 17+67.40

0.35%

1.78%

15+00	16+00	17+00	18+00	19+00
25.8 / 26.80	25.8 / 26.99	25.8 / 27.17	25.8 / 27.35	25.7 / 27.53
26.3 / 27.72	26.9 / 28.24	27.5 / 29.11	28.4 / 30.00	29.3 / 30.89
30.2 / 31.78				

Profile

PATH:
O:\Pow\67667\DR\Plan C\E-Existing Road Pla
Wed, 09/Mar/05 03:07PM drdodge
PLOT:
PSPACE 1=1(F) OR MSPACE 1=1(F)
TAB: E3

ADDENDUM NUMBER

ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION

POW-COFFMAN COVE
FERRY TERMINAL TO DOG CREEK BRIDGE
AK PFH 44-1(5) – 67667

PLAN & PROFILE

DESIGNED BY: D. BLACKBURN

STATE OF ALASKA
10th
Tracy M. Blackburn
CE-10052
EXPIRES: 12/31/2006

3/10/05

CHECKED BY: STAFF

DRAWN/REVISED BY: DR DODGE

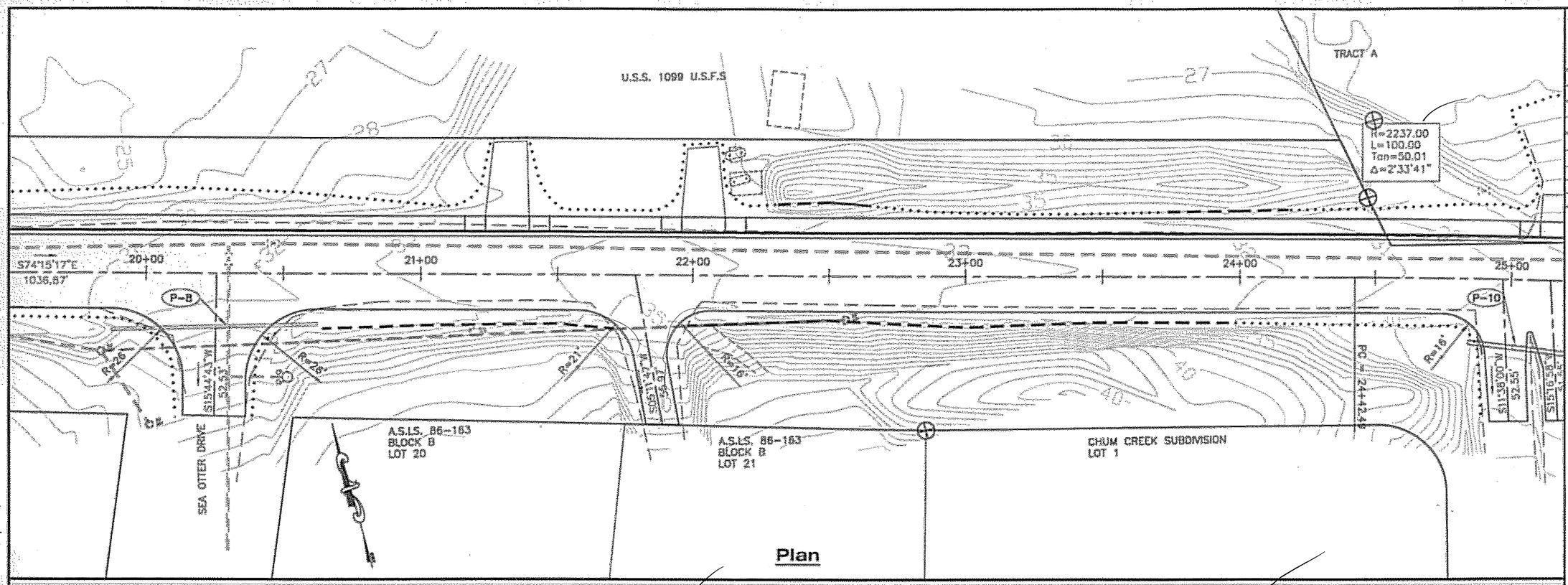
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
SOUTHEAST REGION DESIGN & ENGINEERING SERVICES DIVISION

POW-COFFMAN COVE FERRY TERMINAL TO DOG CREEK BRIDGE

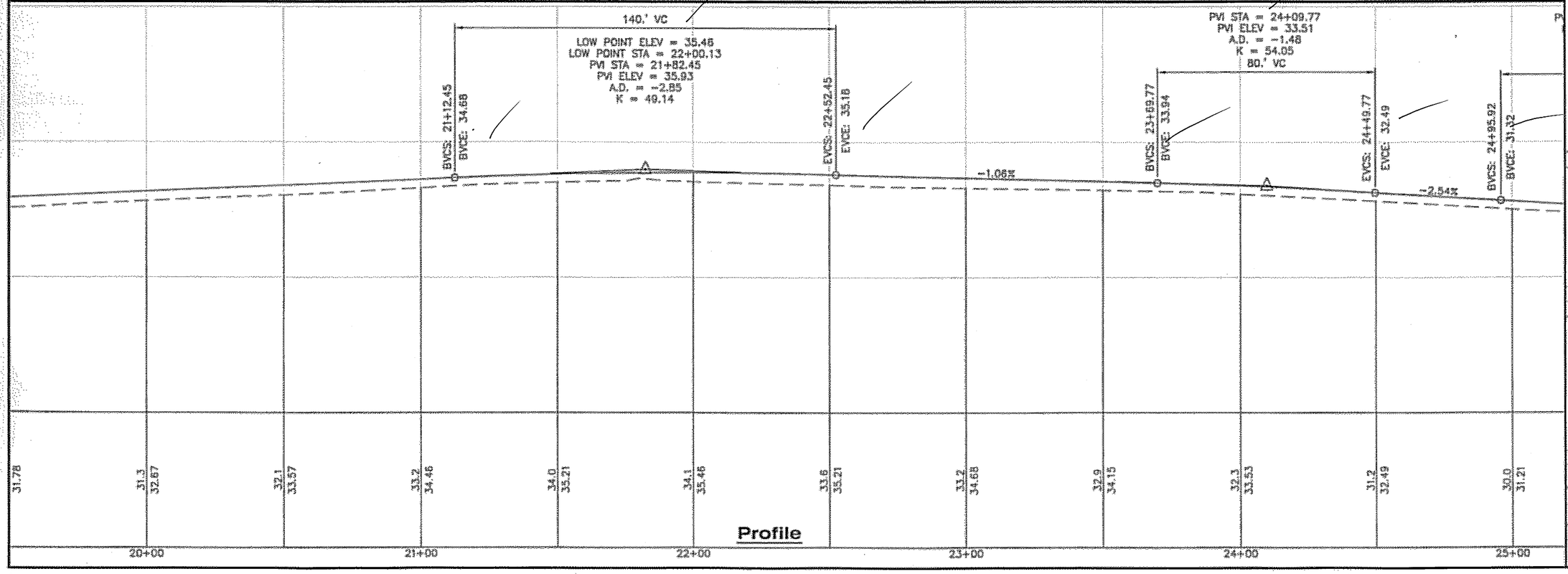
Plan & Profile

PROJECT DESIGNATION NUMBER	
AK PFH 44-1(5) ~ 67667	
STATE	YEAR
ALASKA	2005
SHEET NUMBER	TOTAL SHEETS
E3	22

✓ 2/07



Plan



Profile

PATH:
O:\Pow\67667\DR\Plan C\E-Existing Road Pa
Wed, 09/Mar/05 03:07PM drdodge
PLOT:
PSPACE 1=1(F) OR MSPACE 1=1(F)
TAB: E4

ADDENDUM NUMBER

ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION

POW-COFFMAN COVE
FERRY TERMINAL TO DOG CREEK BRIDGE
AK PFH 44-1(5) - 67667

PLAN & PROFILE

DESIGNED BY: D. BLACKBURN

STATE OF ALASKA
40th
Doug R. Blackburn
CE-10052
REGISTERED PROFESSIONAL ENGINEER
3/10/05

CHECKED BY: STAFF
DRAWN/REVISED BY: DR DODGE

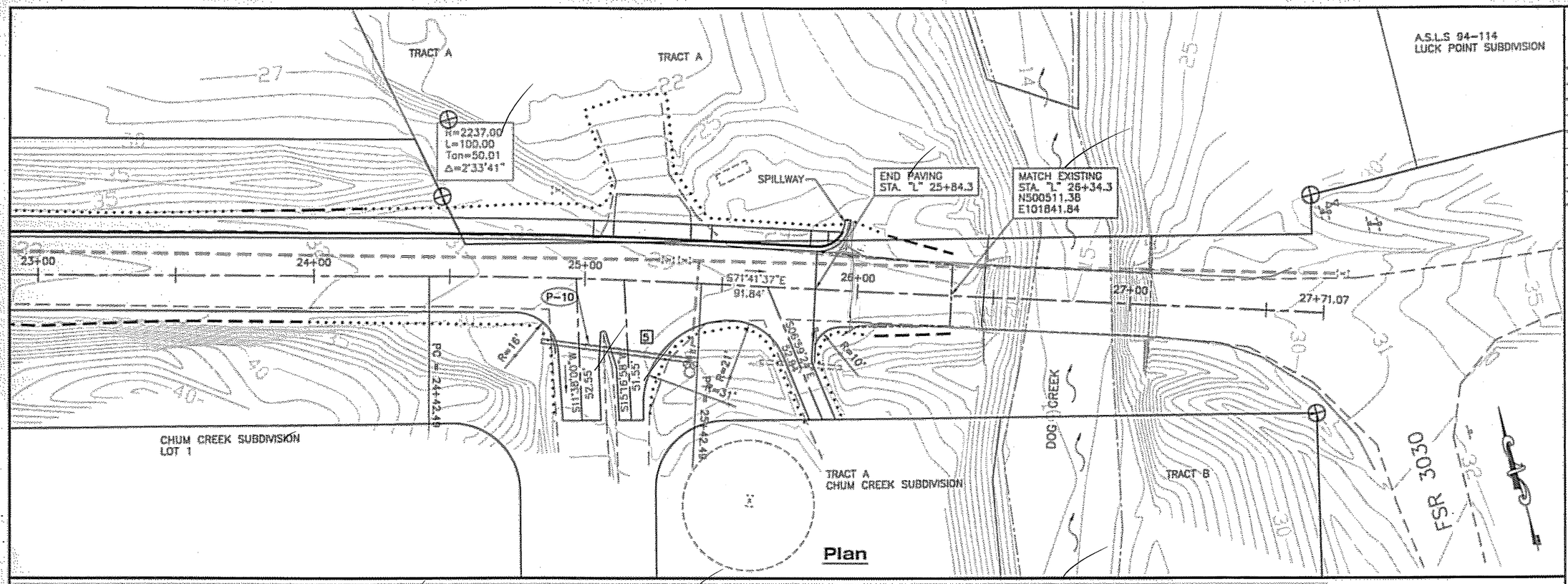
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
SOUTHEAST REGION DESIGN & ENGINEERING SERVICES DIVISION
POW-COFFMAN COVE FERRY TERMINAL TO DOG CREEK BRIDGE

Plan & Profile

PROJECT DESIGNATION NUMBER
AK PFH 44-1(5) - 67667

STATE	YEAR
ALASKA	2005
SHEET NUMBER	TOTAL SHEETS
E4	22

JB 2/07



PATH: D:\Pow\67667\DR\Plan C\E-Existing Road Pa
Wed, 09/Mar/05 03:08PM drdodge
PLOT:
PSPACE 1=1(F) OR MSPACE 1=1(F)
TAB: E5

ADDENDUM NUMBER

ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION

POW-COFFMAN COVE
FERRY TERMINAL TO DOG CREEK BRIDGE
AK PFH 44-1(5) ~ 67667

PLAN & PROFILE

DESIGNED BY: D. BLACKBURN

STATE OF ALASKA
49th
Doug R. Blackburn
(E-10052)
REGISTERED ENGINEER
3/11/05

CHECKED BY: STAFF

DRAWN/REVISED BY: DR DODGE

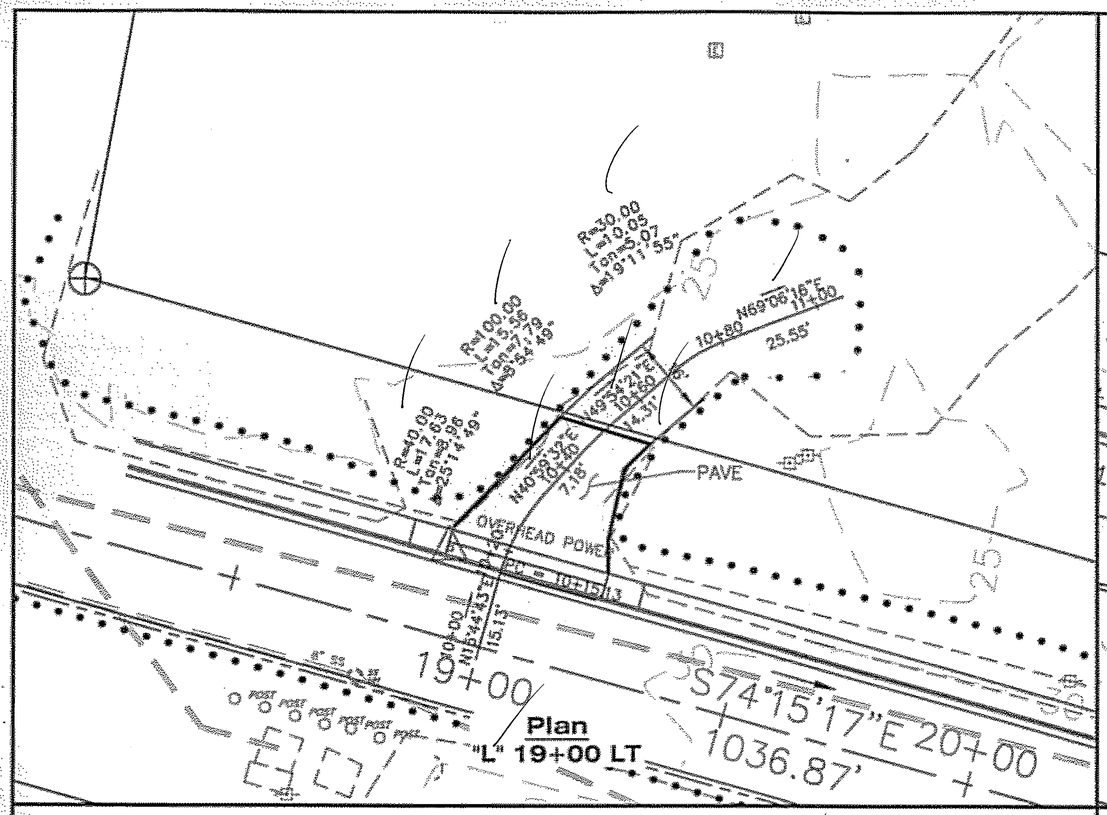
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
SOUTHEAST REGION DESIGN & ENGINEERING SERVICES DIVISION

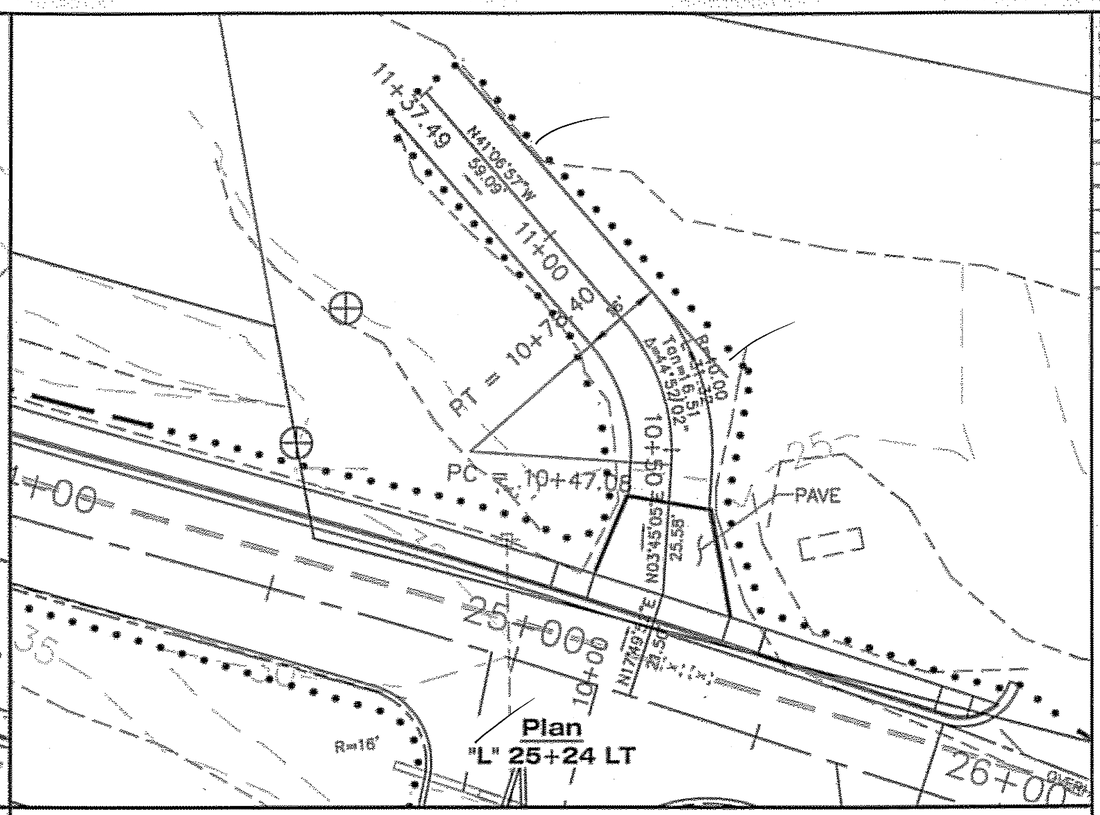
POW-COFFMAN COVE FERRY TERMINAL TO DOG CREEK BRIDGE

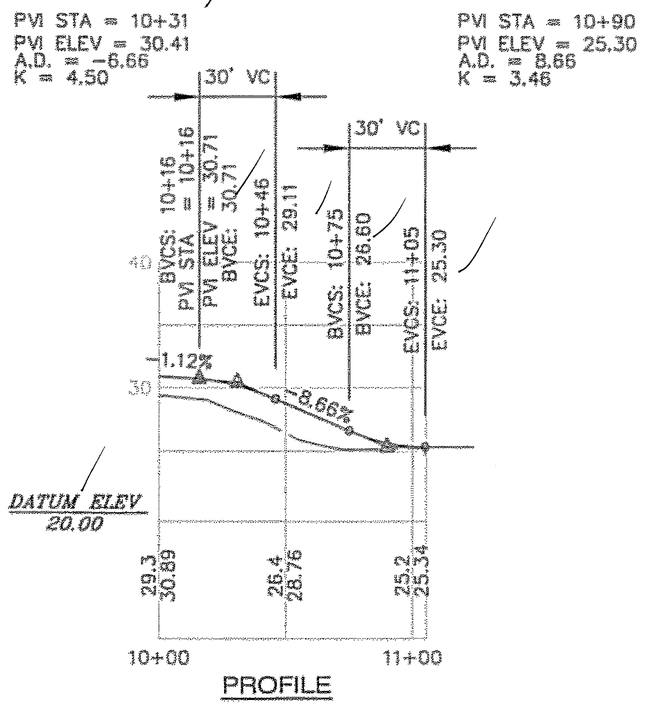
Plan & Profile

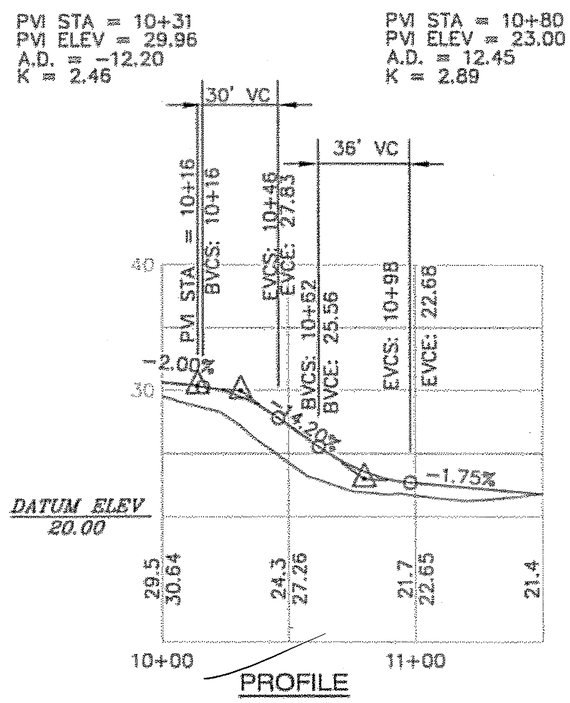
PROJECT DESIGNATION NUMBER	
AK PFH 44-1(5) ~ 67667	
STATE	YEAR
ALASKA	2005
SHEET NUMBER	TOTAL SHEETS
E5	22

VGM 2/07









PATH:
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Wed, 09/Mar/05 01:52PM dirdodge
PLOT:
PSPACE 1=1(F) OR MSPACE 1=1(F)
TAB: E6

ADDENDUM NUMBER

ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION

POW-COFFMAN COVE
FERRY TERMINAL TO DOG CREEK BRIDGE
AK PFH 44-1(5) ~ 67667

DRIVEWAY PLAN AND PROFILE

DESIGNED BY: D. BLACKBURN



CHECKED BY: STAFF

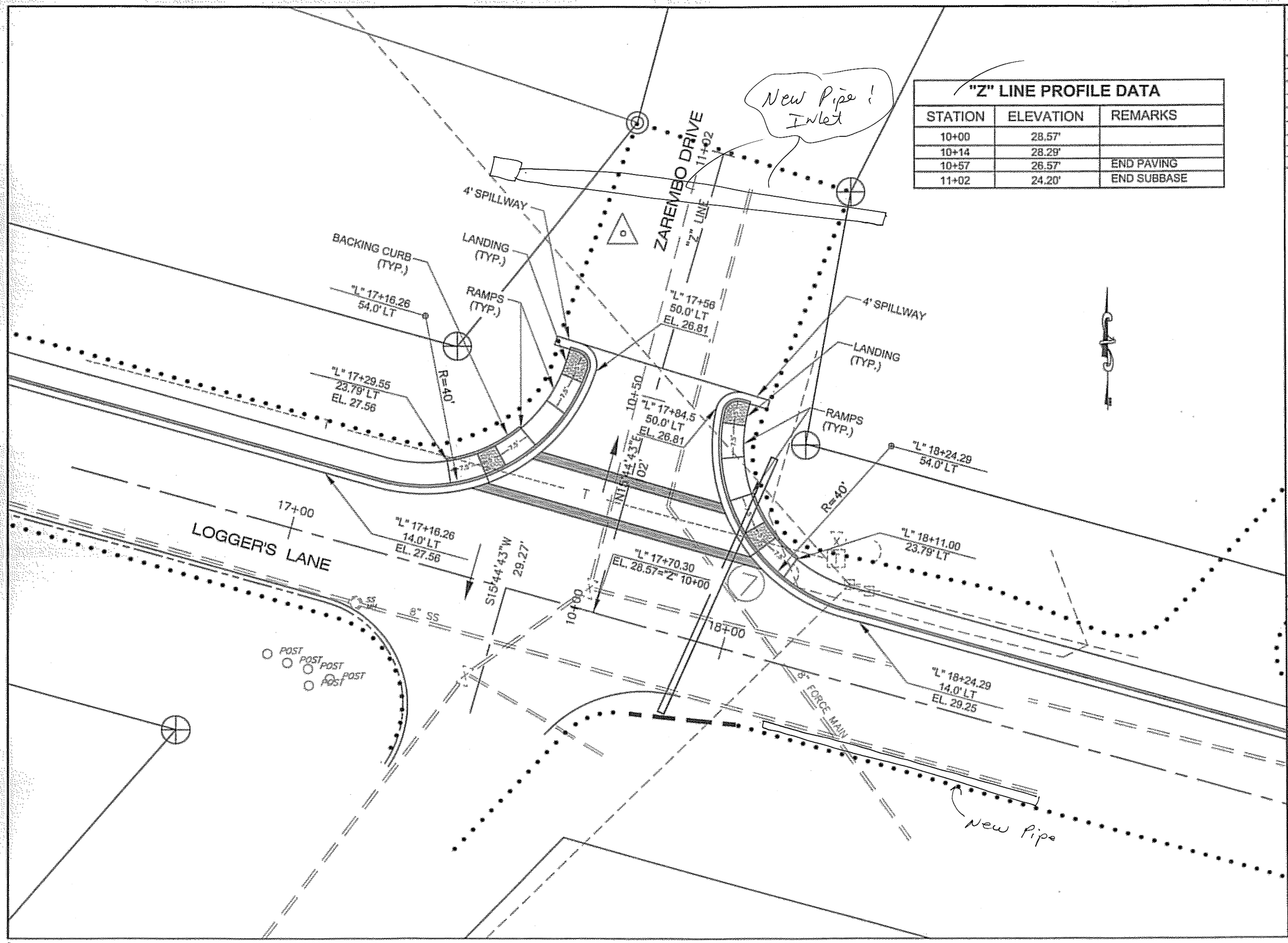
DRAWN/REVISED BY: DR PRINT

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
SOUTHEAST REGION DESIGN & ENGINEERING SERVICES DIVISION
POW-COFFMAN COVE FERRY TERMINAL TO DOG CREEK BRIDGE

DRIVEWAY PLAN AND PROFILE

PROJECT DESIGNATION NUMBER	
AK PFH 44-1(5) ~ 67667	
STATE	YEAR
ALASKA	2005
SHEET NUMBER	TOTAL SHEETS
E6	22

2/07



"Z" LINE PROFILE DATA		
STATION	ELEVATION	REMARKS
10+00	28.57'	
10+14	28.29'	
10+57	26.57'	END PAVING
11+02	24.20'	END SUBBASE

PATH:
G:\Pow\67667\DR\Plan C\E-Drwg2.dwg
Wed, 09/Mar/05 01:53PM drdodge
PLOT:
PSPACE 1=1(F) OR MSPACE 1=1(F)
TAB: E7

ADDENDUM NUMBER

ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION

POW-COFFMAN COVE
FERRY TERMINAL TO DOG CREEK BRIDGE
AK PFH 44-1(5) ~ 67667

ZAREMBO DRIVE AND LOGGER'S LANE INTERSECTION

DESIGNED BY: D. Blackburn

STATE OF ALASKA 49th
Doug A. Blackburn
CE-10053
3/11/05

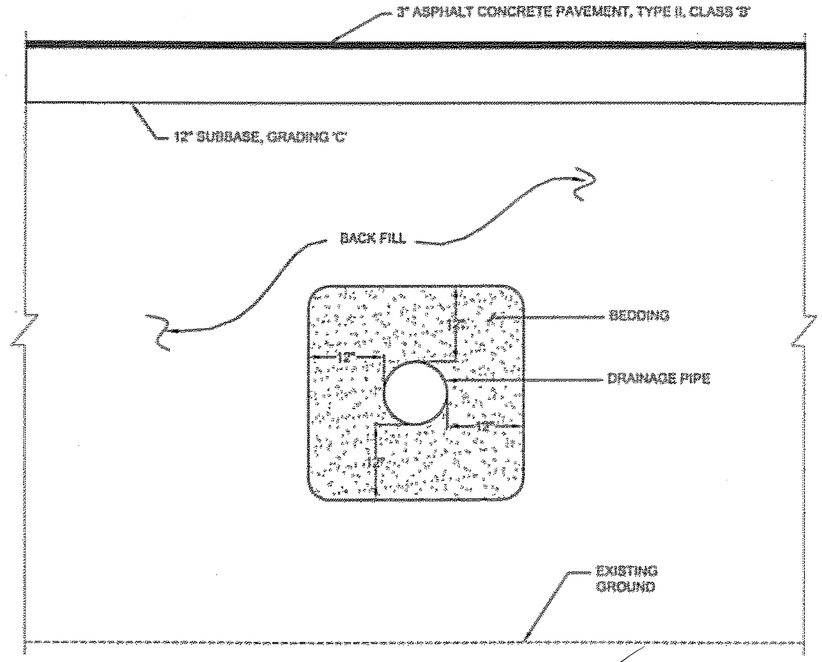
CHECKED BY: K. Miller
DRAWN/REVISED BY: DR DODGE

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
SOUTHEAST REGION DESIGN & ENGINEERING SERVICES DIVISION
POW-COFFMAN COVE FERRY TERMINAL TO DOG CREEK BRIDGE
ZAREMBO DR. & LOGGER'S LANE INTERSECTION

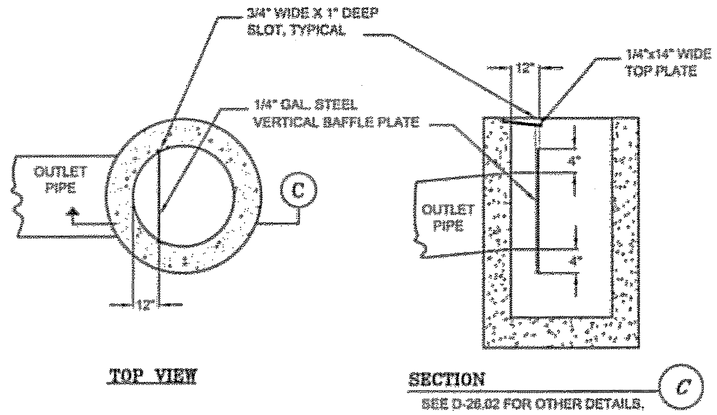
PROJECT DESIGNATION NUMBER
AK PFH 44-1(5) ~ 67667

STATE	YEAR
ALASKA	2005
SHEET NUMBER	TOTAL SHEETS
E7	22

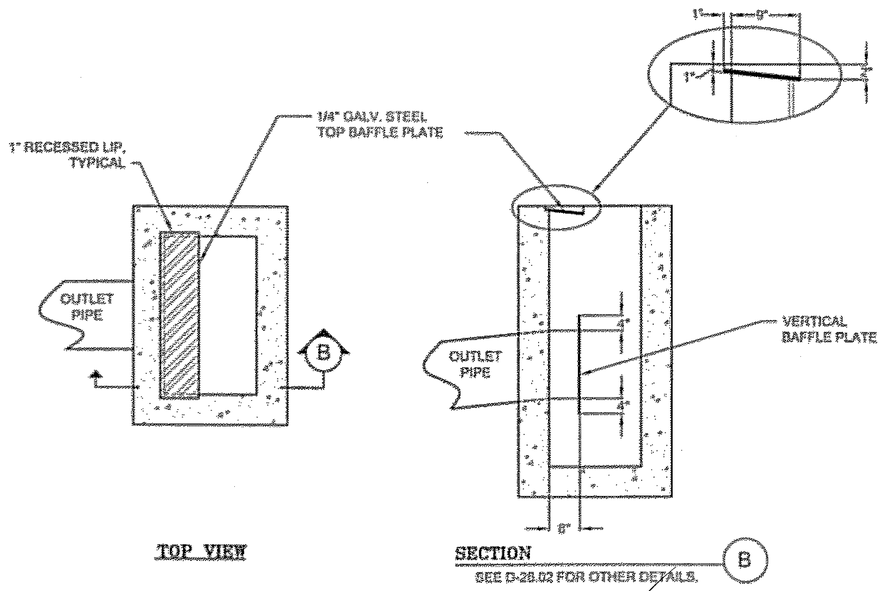
1/26 2/07



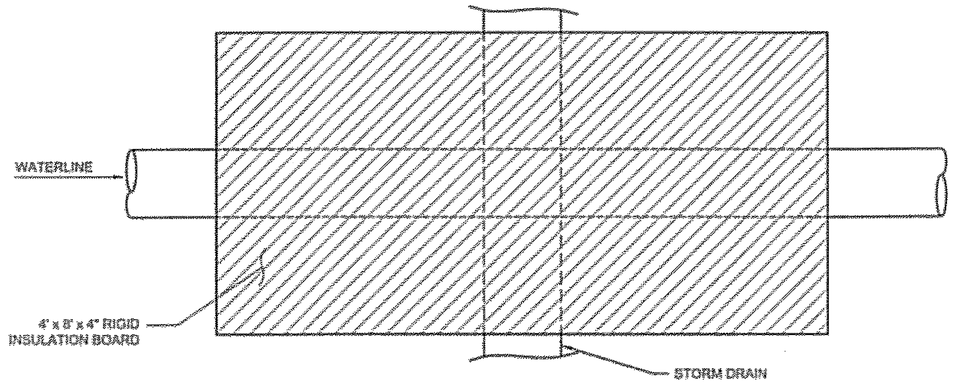
SS OUTFALL & DRAINAGE PIPE
BEDDING DETAIL



BAFFLE PLATE
48" Ø STORM DRAIN MANHOLE



TYPE "A" INLET
WITH TOP & VERTICAL BAFFLE PLATE



NOTE:
INSULATE WHEN STORM DRAIN CROSSES WATERLINE.

INSULATION PLAN

PATH:
Q:\Pow\57667\DR\Plan C\G-Storm Drain.dwg
Wed, 02/Mar/05 01:57PM
PLOT:
PSPACE 1=1(F) OR MSPACE 1=1(F)
TAB: B1

ADDENDUM NUMBER

ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION

POW-COFFMAN COVE
FERRY TERMINAL TO DOG CREEK BRIDGE
AK PFH 44-1(5) – 67667

Storm Drain Details

DESIGNED BY: D. BLACKBURN

STATE OF ALASKA 49th — Craig M. Blackburn — CE-10252 — REGISTERED PROFESSIONAL ENGINEER

3/11/05

CHECKED BY: STAFF

DRAWN/REVISED BY: DR DODGE

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

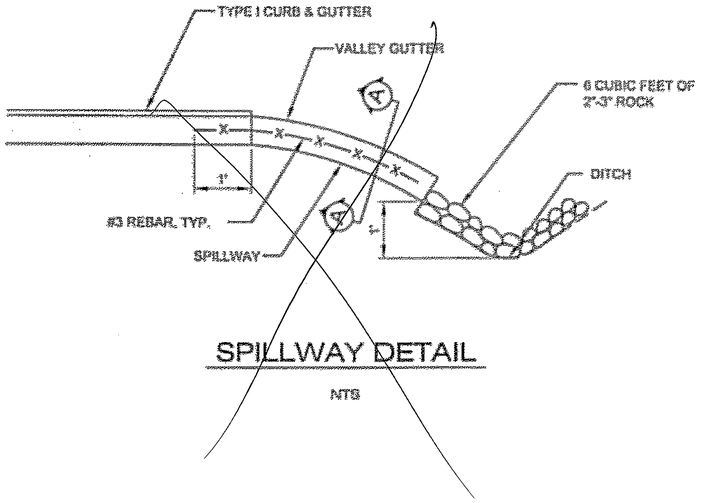
POW–COFFMAN COVE FERRY TERMINAL TO DOG CREEK BRIDGE

Storm Drain Details

PROJECT DESIGNATION NUMBER
AK PFH 44-1(5) – 67667

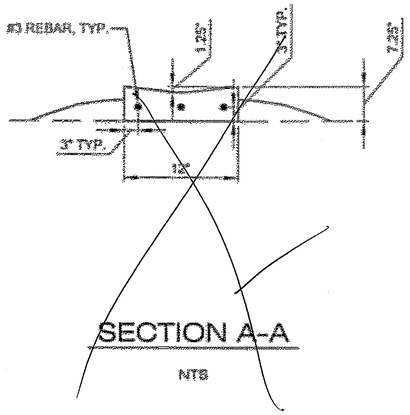
STATE	YEAR
ALASKA	2005
SHEET NUMBER	TOTAL SHEETS
G1	22

3/03 2/07



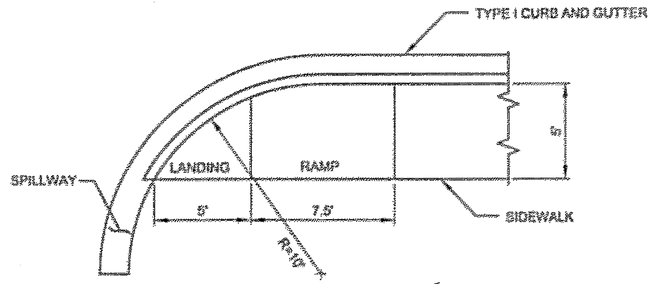
SPILLWAY DETAIL

NTS



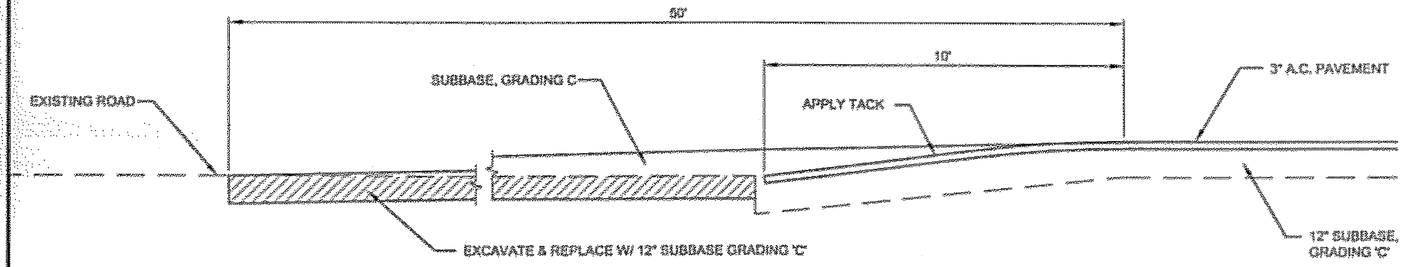
SECTION A-A

NTS



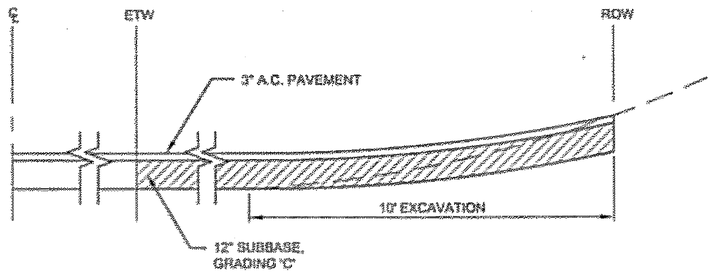
CURB LANDING DETAIL

NTS



PAVEMENT TRANSITION DETAIL
ROAD

NTS



PAVEMENT TRANSITION DETAIL
DRIVEWAY

NTS

PATH:
D:\Pw\67667\DR\Plan C\G-Misc DetsRx.dwg
Wed, 09/Mar/05 01:58PM drodge
PLOT:
PSPACE 1=1(F) OR MSPACE 1=1(F)
TAB: G2

ADDENDUM NUMBER
ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION

POW-COFFMAN COVE
FERRY TERMINAL TO DOG CREEK BRIDGE
AK PFH 44-1(5) – 67667

MISCELLANEOUS DETAILS

DESIGNED BY: D. BLACKBURN

STATE OF ALASKA
10th
Doug K. Blackburn
12-10252
REGISTERED ENGINEER
3/11/05

CHECKED BY: STAFF
DRAWN/REVISED BY: DR DODGE

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
SOUTHEAST REGION DESIGN & ENGINEERING SERVICES DIVISION
POW–COFFMAN COVE FERRY TERMINAL TO DOG CREEK BRIDGE

Miscellaneous Details

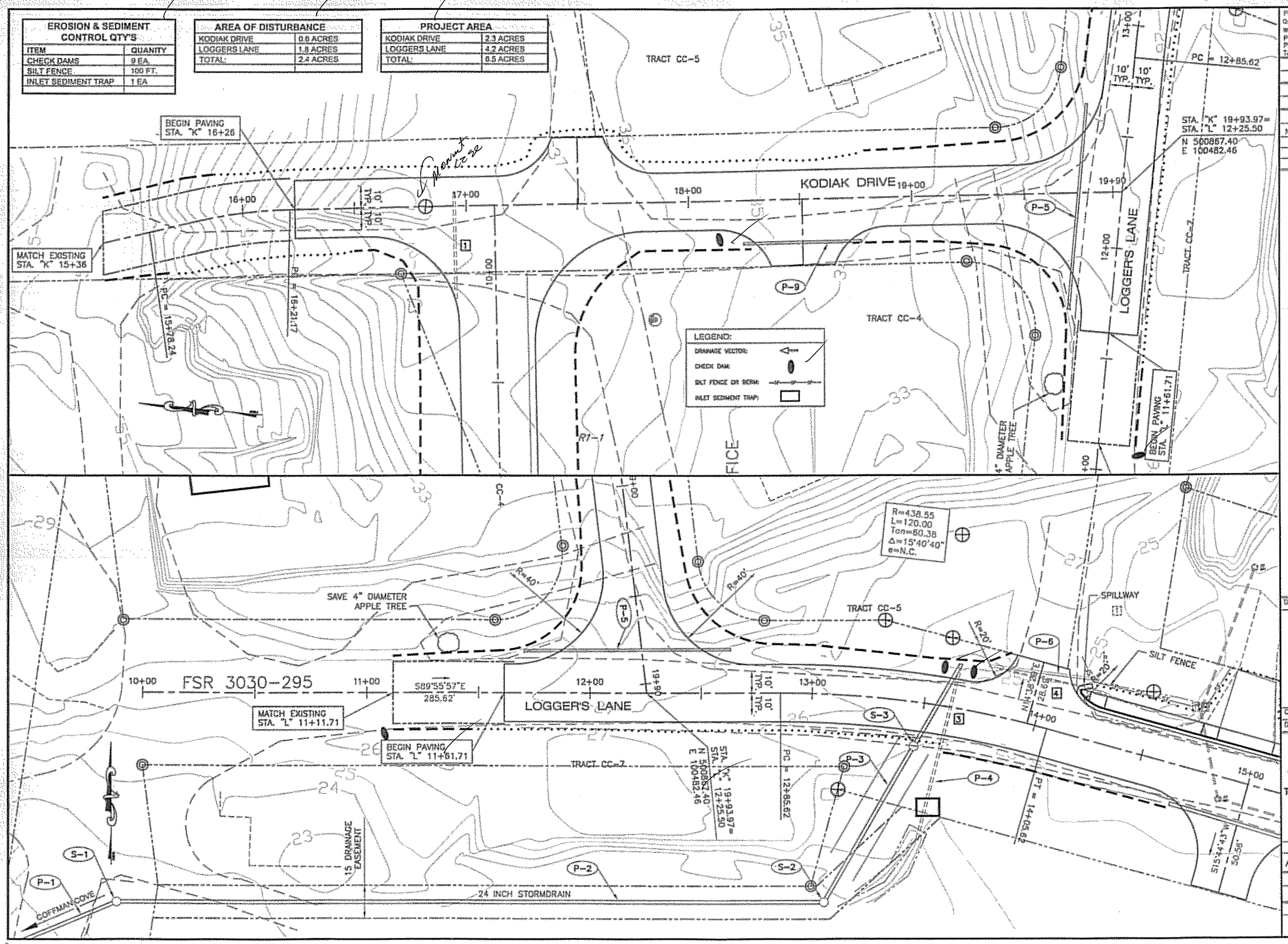
PROJECT DESIGNATION NUMBER	
AK PFH 44-1(5) – 67667	
STATE	YEAR
ALASKA	2005
SHEET NUMBER	TOTAL SHEETS
G2	22

VSB 2/07

EROSION & SEDIMENT CONTROL QTY'S	
ITEM	QUANITY
CHECK DAMS	9 EA.
SILT FENCE	100 FT.
INLET SEDIMENT TRAP	1 EA

AREA OF DISTURBANCE	
KODIAK DRIVE	0.6 ACRES
LOGGERS LANE	1.8 ACRES
TOTAL:	2.4 ACRES

PROJECT AREA	
KODIAK DRIVE	2.3 ACRES
LOGGERS LANE	4.2 ACRES
TOTAL:	6.5 ACRES



PATH:
O:\Pow\67667\DR\Plan C\K1-3-Existing Road
Wed, 09/Mar/05 02:03PM drbadge
PLOT:
PSPACE 1=1(F) OR MSPACE 1=1(F)
TAB: K1

ADDENDUM NUMBER

ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION

EROSION & SEDIMENT CONTROL PLANS

POW-COFFMAN COVE
FERRY TERMINAL TO DOG CREEK BRIDGE
AK PFH 44-1(5) – 67667

DESIGNED BY: D. BLACKBURN

STATE OF ALASKA
49th
Doug M. Blackburn
CE-10052
REGISTERED ENGINEER
3/11/05

CHECKED BY: STAFF
DRAWN/REVISED BY: DR DODGE

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

POW-COFFMAN COVE FERRY TERMINAL TO DOG CREEK BRIDGE

EROSION & SEDIMENT CONTROL PLANS

PROJECT DESIGNATION NUMBER
AK PFH 44-1(5) – 67667

STATE	YEAR
ALASKA	2005
SHEET NUMBER	TOTAL SHEETS
K1	22

JM 2/07

U.S.S. 10099 U.S.F.S.

SILT FENCE

15+00 16+00 17+00 18+00 19+00

10' TYP. 10' TYP.

LOGGER'S LANE

S74°15'17"E 1036.87'

S15°44'43"W 50.56'

N15°44'43"E 57.13'

S15°44'43"W 28.14'

P-7

R=40'

R=30'

R=25'

R=25'

LEGEND:
DRAINAGE VECTOR:
CHECK DAM:
SILT FENCE OR BERM:
INLET SEDIMENT TRAP:

R=50.00
L=23.49
Tan=11.97
Δ=26°54'58"

BLOCK 10
LOT 6

U.S.S. 1099 U.S.F.S

TRACT A

R=2237.00
L=100.00
Tan=50.01
Δ=2°33'41"

S74°15'17"E 1036.87'

20+00 21+00 22+00 23+00 24+00 25+00

10' TYP. 10' TYP.

4" WHITE, TYP.

P-8 P-10

R=25' R=25' R=20' R=20' R=16'

S15°44'43"W 52.55'

S05°17'43"W 53.37'

S11°26'00"W 52.55'

S15°16'55"W

PC @ 24+12.49

SEA OTTER DRIVE

A.S.L.S. 88-163
BLOCK B
LOT 20

A.S.L.S. 88-163
BLOCK B
LOT 21

CHUM CREEK SUBDIVISION
LOT 1

PATH:
G:\Pow\67667\DR\Plan C\K1-3-Existing Road
Wed, 09/Mar/05 02:01PM dradge
PLOT:
PSPACE 1=1(F) OR MSPACE 1=1(F)
TAB: K2

ADDENDUM NUMBER

ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION

EROSION & SEDIMENT CONTROL PLANS

POW-COFFMAN COVE
FERRY TERMINAL TO DOG CREEK BRIDGE
AK PFH 44-1(5) ~ 67667

DESIGNED BY: D. B. ACKRISH

STATE OF ALASKA 19th Doug B. Ackrish 12-10062 REGISTERED ENGINEER

3/11/05

CHECKED BY: STAFF

DRAWN/REVISED BY: DR DODGE

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

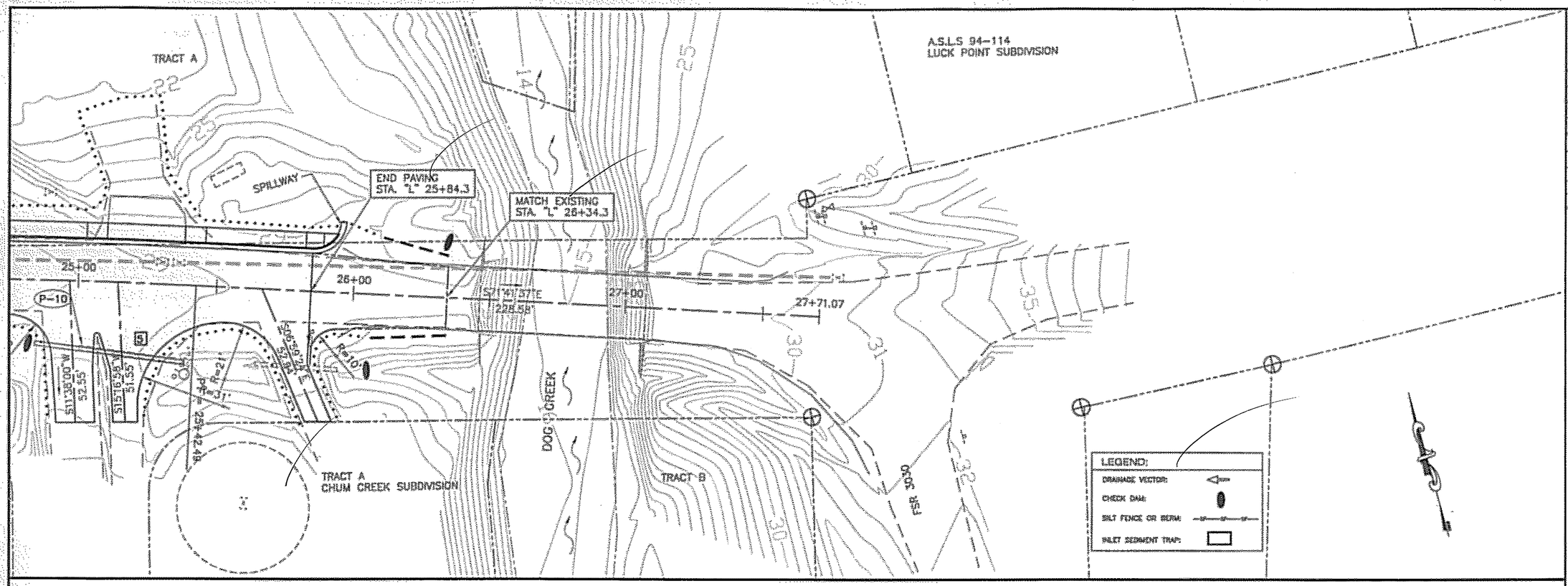
POW-COFFMAN COVE FERRY TERMINAL TO DOG CREEK BRIDGE

EROSION & SEDIMENT CONTROL PLANS

PROJECT DESIGNATION NUMBER
AK PFH 44-1(5) ~ 67667

STATE	YEAR
ALASKA	2005
SHEET NUMBER	TOTAL SHEETS
K2	22

2/07



PATH:
G:\Pow\67667\DR\Plan C\K1-3-Existing Road
Wed, 09/Mar/05 02:01PM drdodge
PLOT:
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TAB: K3

ADDENDUM NUMBER

ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION

POW-COFFMAN COVE
FERRY TERMINAL TO DOG CREEK BRIDGE
AK PFH 44-1(5) ~ 67667

EROSION & SEDIMENT CONTROL PLANS

DESIGNED BY: D. BLACKBURN

STATE OF ALASKA
10th
Doug N. Blackburn
CE-12052
REGISTERED PROFESSIONAL ENGINEER
3/10/05

CHECKED BY: STAFF
DRAWN/REVISED BY: DR DODGE

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

POW-COFFMAN COVE FERRY TERMINAL TO DOG CREEK BRIDGE

EROSION & SEDIMENT CONTROL PLANS

PROJECT DESIGNATION NUMBER
AK PFH 44-1(5) ~ 67667

STATE	YEAR
ALASKA	2005
SHEET NUMBER	TOTAL SHEETS
K3	22

✓gm 2/07

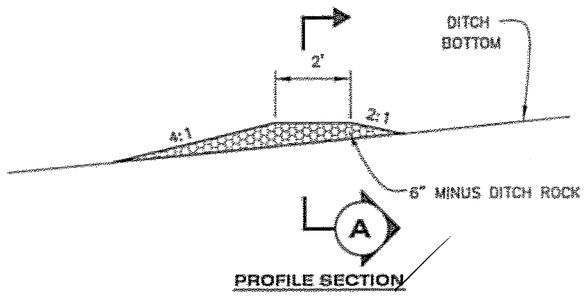
EROSION & SEDIMENT CONTROL NOTES:

1.) COFFMAN COVE, ALASKA
RAIN FALL: 100" / YEAR
SNOW FALL: 30" / YEAR

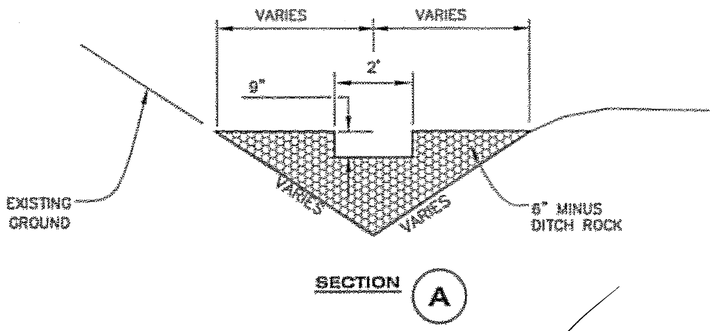
2.) FILL MATERIAL PLACED IN THE INTERTIDAL AREAS SHALL OCCUR DURING DE-WATERED CONDITIONS BY LOW TIDES.

3.) INLET SEDIMENT TRAPS, SILT FENCES AND TEMPORARY CHECK DAMS SHALL BE INSTALLED AT LOCATIONS SHOWN IN THE EROSION & SEDIMENT CONTROL PLAN.

4.) INLET SEDIMENT TRAPS CAN ALSO BE "DANDY BAG" AS LISTED IN SECTION 641 OF SPECIFICATIONS.

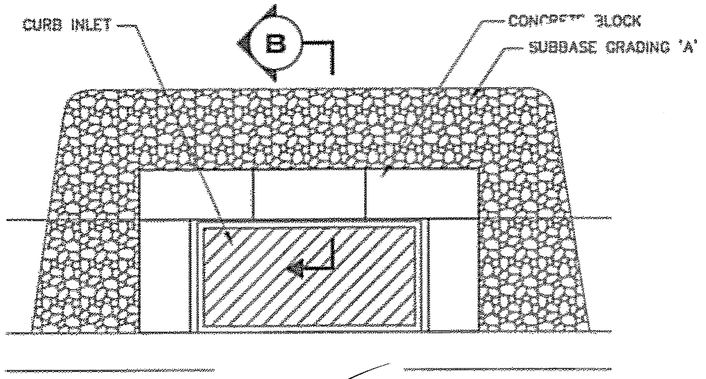


PROFILE SECTION

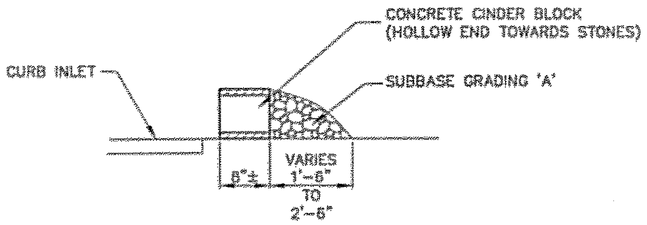


SECTION A

CHECK DAM DETAIL



PLAN



SECTION B

INLET SEDIMENT TRAP DETAIL

PATH: D:\Proe\67667\DR\Plan C\K-ErosionDet.dwg
Wed, 09/Mar/05 02:02PM dmdodge
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ADDENDUM NUMBER

ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION

POW-COFFMAN COVE
FERRY TERMINAL TO DOG CREEK BRIDGE
AK PFH 44-1(5) ~ 67667

Erosion & Sediment Control Details

DESIGNED BY: D. BLACKBURN

STATE OF ALASKA
Craig B. Blackburn
CE-10052
REGISTERED PROFESSIONAL ENGINEER
3/11/05

CHECKED BY: STAFF

DRAWN/REVISED BY: DR DODGE

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

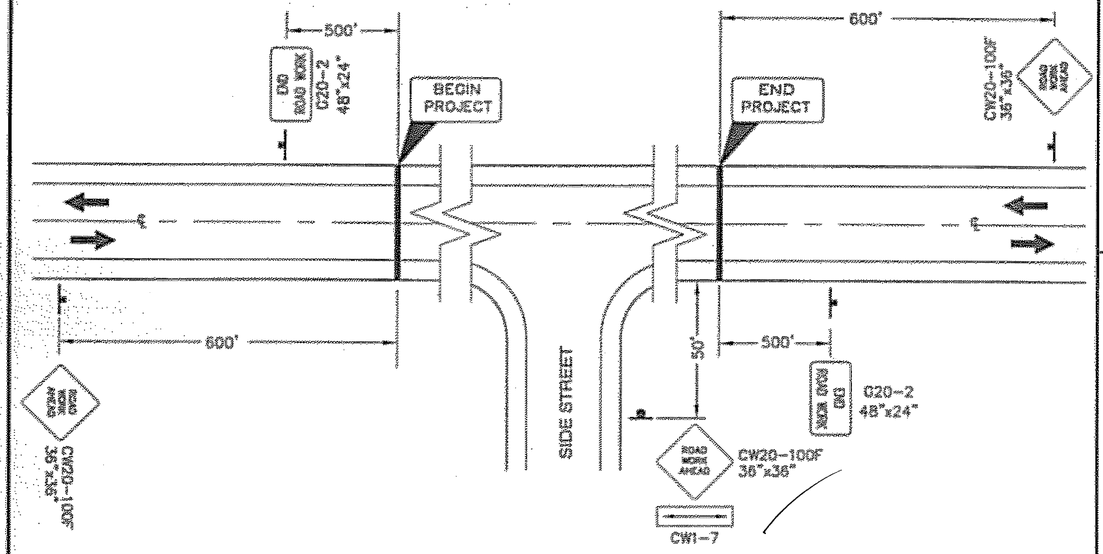
POW-COFFMAN COVE FERRY TERMINAL TO DOG CREEK BRIDGE

Erosion & Sediment Control Details

PROJECT DESIGNATION NUMBER
AK PFH 44-1(5) ~ 67667

STATE	YEAR
ALASKA	2005
SHEET NUMBER	TOTAL SHEETS
K4	22

2/07



PERMANENT CONSTRUCTION SIGNING

Legend

- ..... SIGN
- ..... CONE
- ..... DRUM
- ..... TYPE III BARRICADE
- ..... FLAGGING STATION

FORMULAS FOR L (TAPER LENGTH)

40 MPH OR LESS $L = \frac{W \times S^2}{60}$

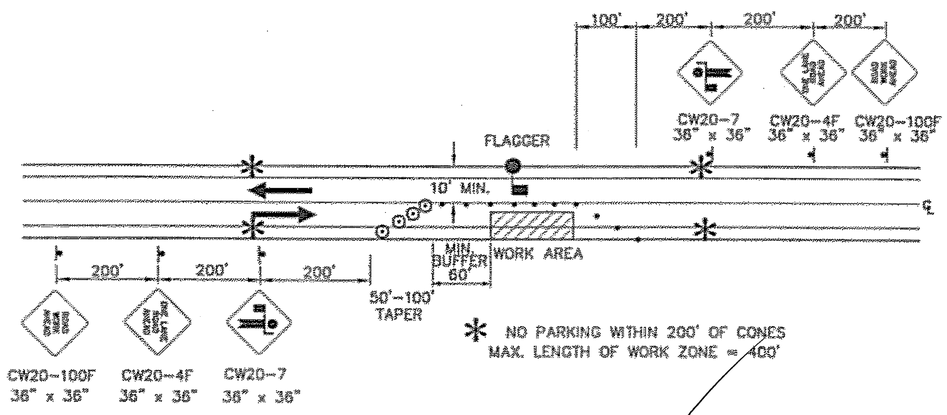
WHERE W= WIDTH OF OFFSET
S= POSTED SPEED LIMIT

DRUM OR CONE SPACING = S (IN FEET)

MIN. BUFFER	
S	LENGTH
20	35
25	55
30	85
35	120
40	170
45	220
50	280
55	335
60	415
65	485

Traffic Control Notes:

1. A MINIMUM OF ONE LANE SHALL BE MAINTANED AT ALL TIMES, THROUGH ALL WORK AREAS.
2. TWO LANES SHALL BE MAINTAINED AT ALL TIMES IN NON-WORK AREAS AND DURING NON-WORK HOURS, UNLESS AN APPROVED TRAFFIC CONTROL SIGNAL HAS BEEN INSTALLED.
3. TEMPORARY DRIVING LANES SHALL HAVE A MINIMUM WIDTH OF 10'-0".
4. CONSTRUCTION SIGNING SHALL BE IN PLACE ONLY WHEN THE CONDITIONS EXIST FOR WHICH THE SIGNS ARE INTENDED. CONSTRUCTION SIGNS SHALL BE PLACED SUCH THAT THEY DO NOT OBSCURE EXISTING TRAFFIC SIGNS.
5. WORK ZONE DOUBLE TRAFFIC FINES SIGNS SHALL BE USED AS DIRECTED BY THE ENGINEER AND PER STANDARD DRAWING C-04.12.
6. WARNING LIGHTS SHALL BE USED ON ALL CHANNELIZING DEVICES PLACED ALONG OR AROUND ROADWAY HAZARDS AS DIRECTED BY THE ENGINEER.
7. IT IS THE INTENT OF THIS TRAFFIC CONTROL PLAN (TCP) TO ILLUSTRATE SOME, NOT ALL, OF THE TRAFFIC CONTROL SETUPS WHICH WILL BE REQUIRED ON THIS PROJECT. PLANS FOR CONFIGURATIONS NOT COVERED BY THE TCP SHALL BE CREATED BY THE CONTRACTOR AND SUBMITTED TO THE ENGINEER FOR APPROVAL. WHERE APPROPRIATE, THEY SHALL INCORPORATE APPLICABLE PORTIONS OF DETAILS ON THESE SHEETS.



TWO LANE ROAD - SINGLE LANE CLOSURE
Single Flagger

PATH: G:\Pow\67667\DR\Plan G\S-Traffic.dgn
Wed, 09/Mar/05 02:04PM drdodge
PLOT:
PSPACE 1=1(F) OR MSPACE 1=1(F)
TAB: S1

ADDENDUM NUMBER

ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION

POW-COFFMAN COVE
FERRY TERMINAL TO DOG CREEK BRIDGE
AK PFH 44-1(5) -- 67667

TRAFFIC CONTROL PLANS

DESIGNED BY: D. BLACKBURN

STATE OF ALASKA 49th Doug W. Blackburn 12-10002 3/11/05

CHECKED BY: STAFF

DRAWN/REVISED BY: DR DODGE

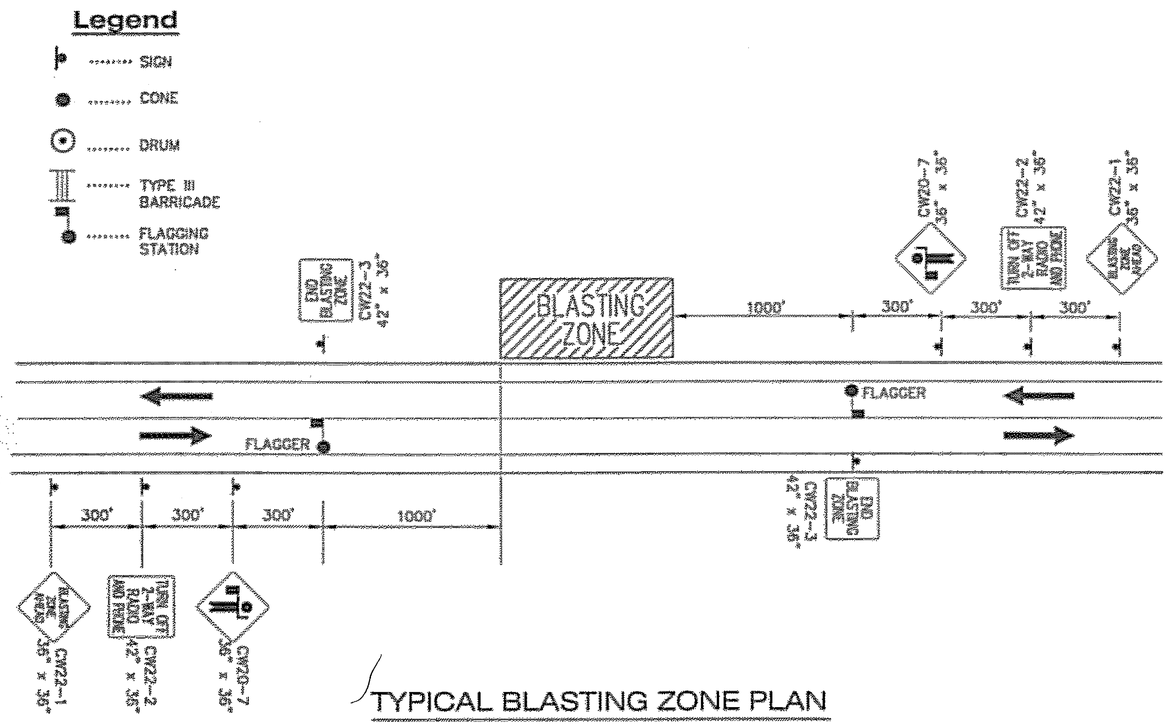
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
SOUTHEAST REGION DESIGN & ENGINEERING SERVICES DIVISION

POW-COFFMAN COVE FERRY TERMINAL TO DOG CREEK BRIDGE

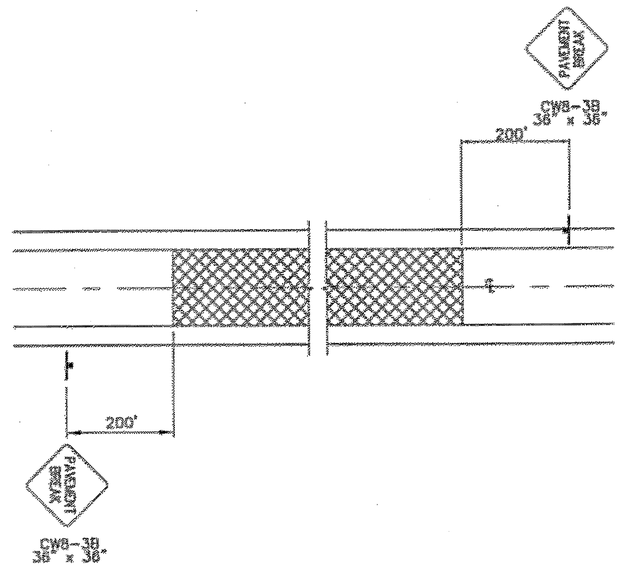
TRAFFIC CONTROL PLANS

PROJECT DESIGNATION NUMBER	
AK PFH 44-1(5) ~ 67667	
STATE	YEAR
ALASKA	2005
SHEET NUMBER	TOTAL SHEETS
S1	22

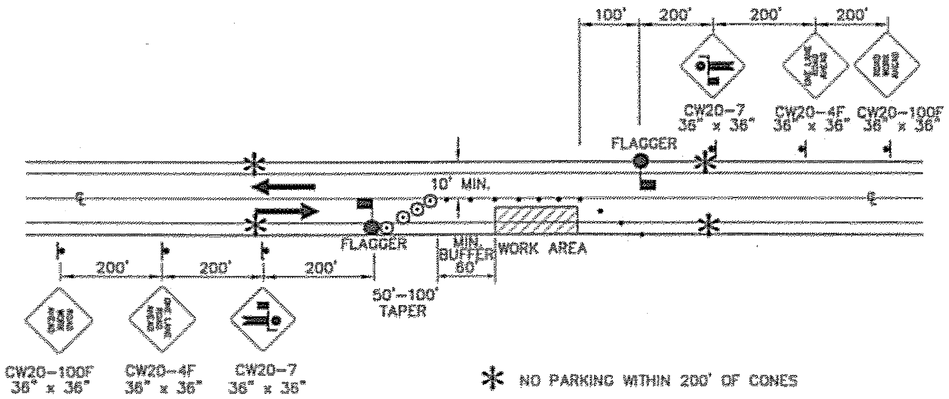
✓ gm 2/07



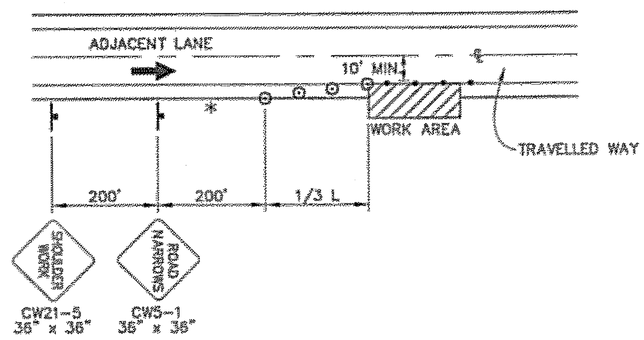
TYPICAL BLASTING ZONE PLAN



SIGNING FOR UNPAVED AREA



TWO LANE ROAD - SINGLE LANE CLOSURE
Double Flagger



SHOULDER WORK

PATH: G:\Pow\67667\DR\Plan C\S-Traffic.dwg
Wed, 09/Mar/05 02:04PM dredge
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TAB: S2

ADDENDUM NUMBER
ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION

POW-COFFMAN COVE
FERRY TERMINAL TO DOG CREEK BRIDGE
AK PFH 44-1(5) ~ 67667

TRAFFIC CONTROL PLANS

DESIGNED BY: D. BLACKBURN

STATE OF ALASKA
10th
Doug W. Blackburn
CE-10264
3/10/05

CHECKED BY: STAFF
DRAWN/REVISED BY: DR DODGE

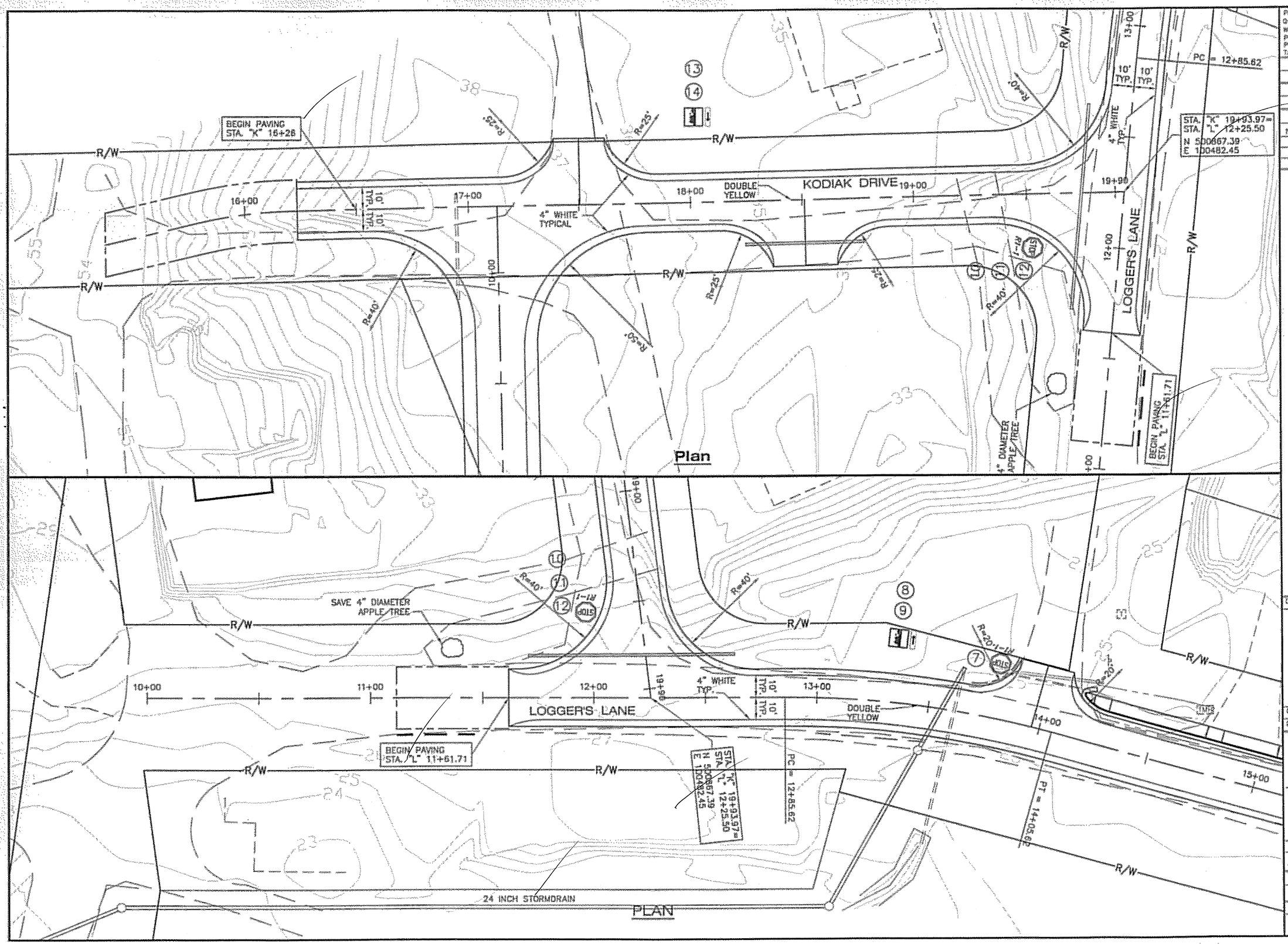
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
SOUTHEAST REGION DESIGN & ENGINEERING SERVICES DIVISION

POW-COFFMAN COVE FERRY TERMINAL TO DOG CREEK BRIDGE

TRAFFIC CONTROL PLANS

PROJECT DESIGNATION NUMBER	
AK PFH 44-1(5) ~ 67667	
STATE	YEAR
ALASKA	2005
SHEET NUMBER	TOTAL SHEETS
S2	22

V/S 2/07



PATH: G:\Pow\67667\DR\Plan C\S-Sign & Striping.d
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ADDENDUM NUMBER

ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION

POW-COFFMAN COVE
FERRY TERMINAL TO DOG CREEK BRIDGE
AK PFH 44-1(5) ~ 67667

SIGNING AND STRIPING PLAN

DESIGNED BY: D. BLACKBURN

STATE OF ALASKA 49th
Doug W. Blackburn
CE-10062
REGISTERED PROFESSIONAL ENGINEER
3/10/05

CHECKED BY: STAFF

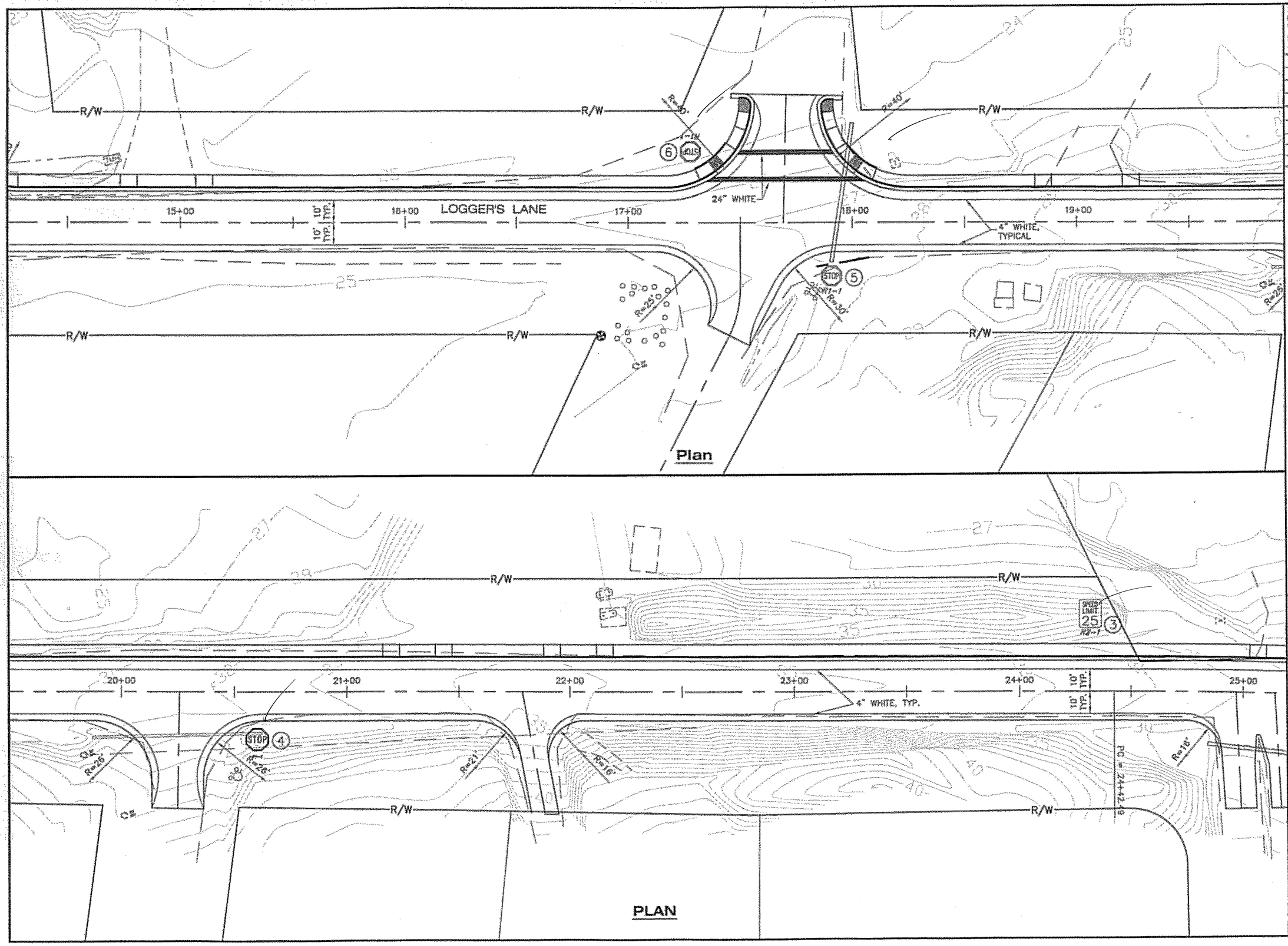
DRAWN/REVISED BY: DR DODGE

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
SOUTHEAST REGION DESIGN & ENGINEERING SERVICES DIVISION
POW-COFFMAN COVE FERRY TERMINAL TO DOG CREEK BRIDGE

SIGNING AND STRIPING PLAN

PROJECT DESIGNATION NUMBER	
AK PFH 44-1(5) ~ 67667	
STATE	YEAR
ALASKA	2005
SHEET NUMBER	TOTAL SHEETS
S3	22

✓ gm 2/07



PATH:
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PLOT:
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TAB: S4

ADDENDUM NUMBER

ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION

POW-COFFMAN COVE
FERRY TERMINAL TO DOG CREEK BRIDGE
AK PFH 44-1(5) -- 67667

SIGNING AND STRIPING PLAN

DESIGNED BY: D. BLACKBURN

STATE OF ALASKA
40th
Doug A. Blackburn
CE-10252
Professional Engineer
3/11/05

CHECKED BY: STAFF

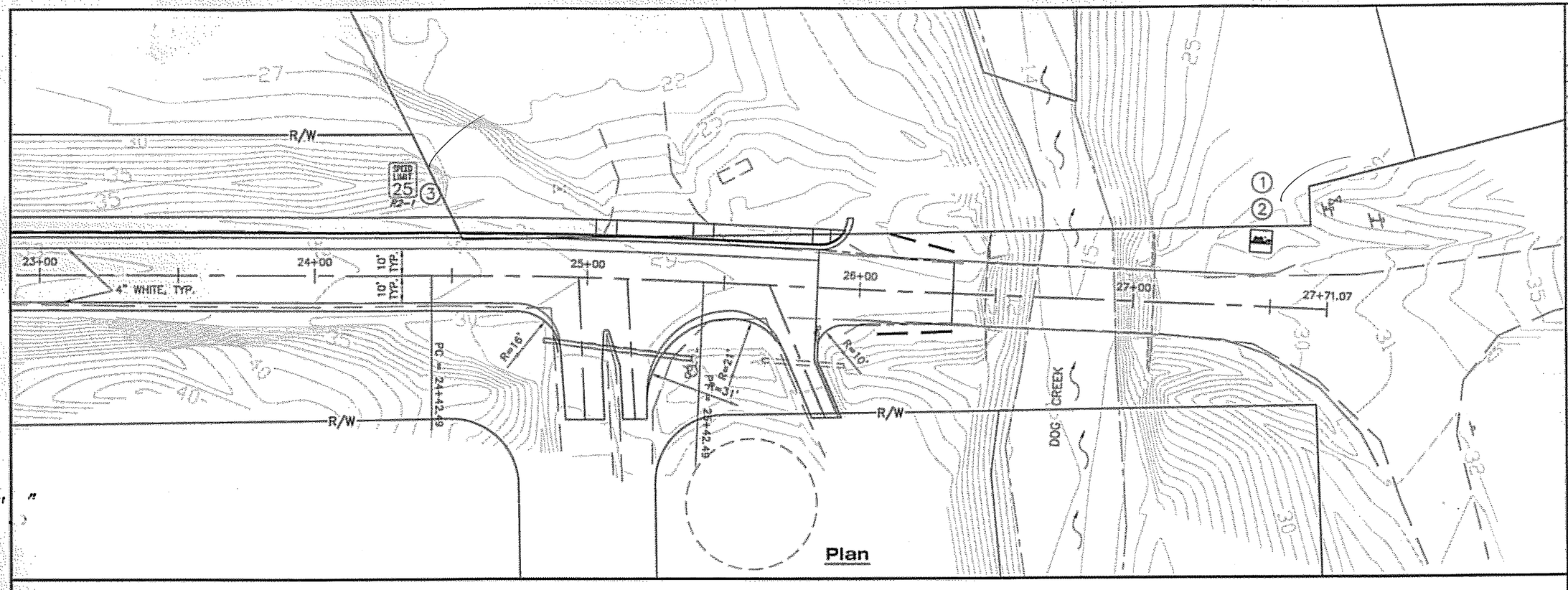
DRAWN/REVISED BY: DR DODGE

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
SOUTHEAST REGION DESIGN & ENGINEERING SERVICES DIVISION
POW-COFFMAN COVE FERRY TERMINAL TO DOG CREEK BRIDGE

SIGNING AND STRIPING PLAN

PROJECT DESIGNATION NUMBER	
AK PFH 44-1(5) ~ 67667	
STATE	YEAR
ALASKA	2005
SHEET NUMBER	TOTAL SHEETS
S4	22

✓ 2/07



Plan

PATH:
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ADDENDUM NUMBER

ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION

POW-COFFMAN COVE
FERRY TERMINAL TO DOG CREEK BRIDGE
AK PFH 44-1(5) ~ 67667

SIGNING AND STRIPING PLAN

DESIGNED BY: D. BLACKBURN

STATE OF ALASKA
10th
Doug W. Blackburn
CE-10062
3/11/05

CHECKED BY: STAFF

DRAWN/REVISED BY: DR DODGE

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

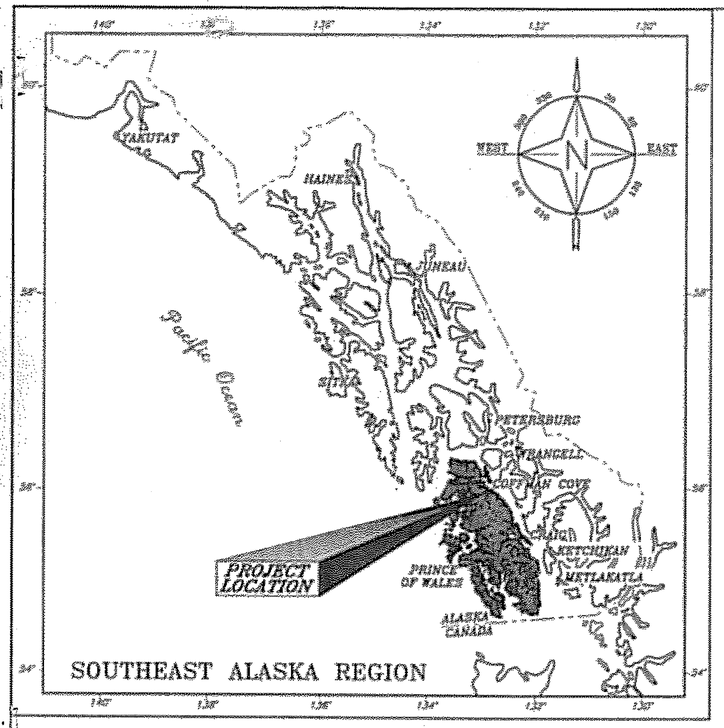
POW-COFFMAN COVE FERRY
TERMINAL TO DOG CREEK BRIDGE

SIGNING AND STRIPING PLAN

PROJECT DESIGNATION NUMBER	
AK PFH 44-1(5) ~ 67667	
STATE	YEAR
ALASKA	2005
SHEET NUMBER	TOTAL SHEETS
S5	22

✓ 2/07

AS-BUILT PLANS



DESIGNED BY
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES
SOUTHEAST REGION

FOR THE

City of Coffman Cove

A PROJECT AT

COFFMAN COVE, ALASKA

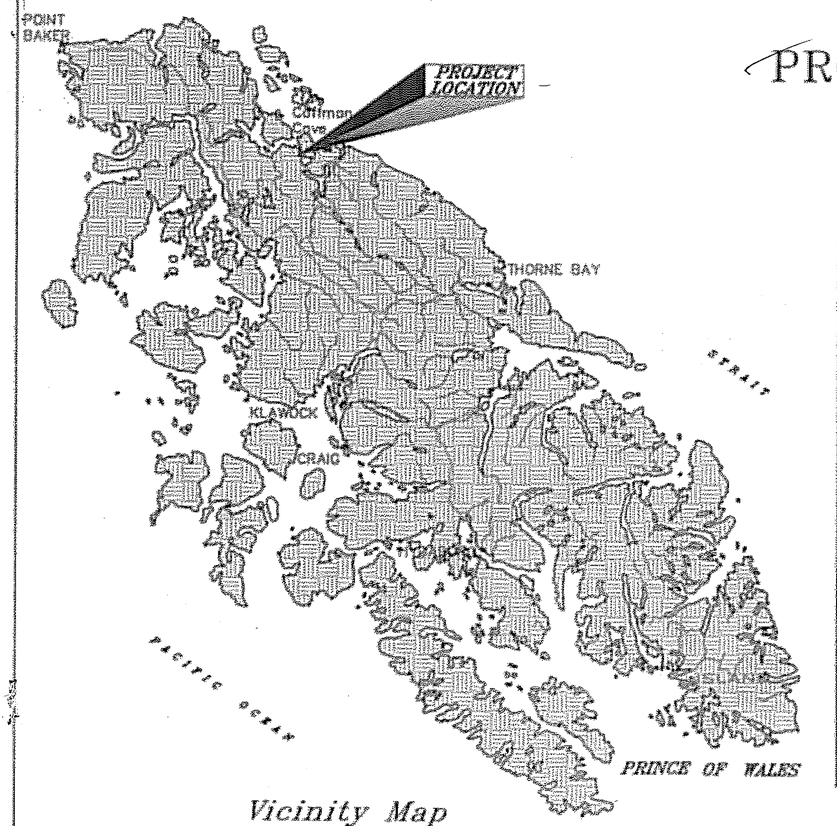
Planset D

UPLAND SEWER & WATER UTILITIES

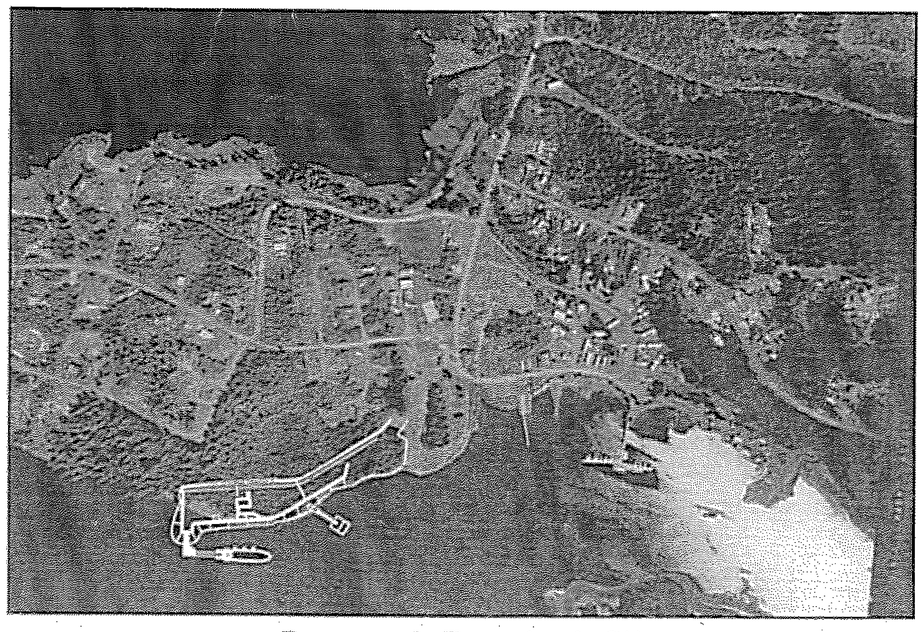
PROJECT No. 67844 ~ STP-0003(66)

INDEX OF SHEETS

SHEET NO.	DESCRIPTION
G1	Title Sheet
G2	Notes, Legend, Trench Section, & Estimate of Quantities
G3	General Layout
W1	Water Main Plan & Profile Sta. 100+00.00 to Sta. 109+38.96
W2	Water Main Details
W3	Water System Details
W4	Valve Vault & Thrust Block Details
S1	Sewer Main Plan & Profile Sta. 1+05.00 to Sta. 8+08.08
S2	Sewer Main Details
S3	Sewer System & Bollard Details
S4	Lift Station & Valve Vault Plan & Sections
S5	Lift Station & Valve Vault Details
S6	Sanitary Sewer Treatment Facility



Vicinity Map



Proposed Terminal Site

AS-BUILTS

CONTRACTOR- SE ROADBUILDERS
P.E- GREG BROWNING
BEGIN- 6/05
END- 8/06

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND
PUBLIC FACILITIES
SOUTHEAST REGION

APPROVED
For Patrick J. Kemp Date 3/16/05
Regional Preconstruction Engineer
Patrick J. Kemp

APPROVED
Gary L. Paxton Date 3/14/05
Director, S.E. Region
Gary L. Paxton

PROJECT NUMBER:
67844

DATE:
FEBRUARY 2005

SHEET 1 OF 13

2/07

GENERAL NOTES – WATER & SEWER

1. CONTRACTOR SHALL FIELD VERIFY THE HORIZONTAL AND VERTICAL LOCATIONS OF ALL ENCOUNTERED UTILITIES, AND RECORD ANY CHANGES ON THE CONTRACTOR RECORD DRAWINGS. CONTRACTOR SHALL VERIFY ALL EXISTING SERVICE LOCATIONS PRIOR TO CONSTRUCTION.
2. THE CONTRACTOR SHALL PROVIDE RECORD SURVEY NOTES FOR SUBMITTAL TOGETHER WITH RECORD DRAWING PLANS.
3. ALL WORK AND MATERIALS PROVIDED FOR THIS PROJECT SHALL BE AS SPECIFIED IN THE MOST CURRENT EDITIONS OF STATE AND LOCAL REQUIREMENTS AND THESE DRAWINGS.
4. CONTRACTOR SHALL RESTORE DISTURBED PROPERTY TO EXISTING CONDITION.
5. ALL DUCTILE IRON PIPE (D.I.P.), CAST IRON PIPE (C.I.P.) AND APPURTENANCES SHALL BE WRAPPED WITH A LAYER OF POLYETHYLENE ENCASEMENT MATERIAL 8-MIL (0.2 MM) THICK AND CONFORMING TO ANSI/AWWA C105/A21.5. THE POLYETHYLENE ENCASEMENT SHALL BE INSTALLED IN STRICT COMPLIANCE WITH THE METHODS DESCRIBED IN THE CURRENT EDITIONS OF ANSI/AWWA AND THE DUCTILE IRON PIPE RESEARCH ASSOCIATION'S "A GUIDE FOR THE INSTALLATION OF DUCTILE IRON PIPE".
6. THRUST BLOCKS ARE REQUIRED FOR PRESSURIZED LINES AT ALL HORIZONTAL AND VERTICAL D.I.P. FITTINGS AND VALVES PER DETAILS IN THESE DRAWINGS.
7. A MINIMUM OF TEN (10) FEET OF HORIZONTAL SEPARATION AND 18 INCHES OF VERTICAL SEPARATION SHALL BE MAINTAINED BETWEEN ALL WATER AND SEWER MAINS AND SERVICES. WHERE THE VERTICAL SEPARATION BETWEEN THE WATER AND SEWER MAINS IS LESS THAN 18 INCHES, A WRITTEN WAIVER MUST BE OBTAINED FROM ADEC AND SUBMITTED TO ENGINEER PRIOR TO CONSTRUCTION. WHERE WATER AND SEWER MAINS CROSS, SEWER LINE JOINTS SHALL BE AT LEAST 9 FEET FROM THE WATER LINE JOINTS.
8. NO PIPE LENGTH LESS THAN EIGHT (8) FEET SHALL BE INCORPORATED IN THE SYSTEM EXCEPT THOSE NECESSARY FOR FIRE HYDRANT OR VALVE INSTALLATION, OR MAINTAINING SEPARATION DISTANCE BETWEEN THE WATER LINE AND SEWER LINE.
9. WATER LINE SHALL HAVE A MINIMUM 4 FEET DEPTH OF BURY (TOP SURFACE OF FINISH GRADE TO TOP OF PIPE) UNLESS OTHERWISE SHOWN. CONFIRM FINISH GRADE BEFORE INSTALLING PIPE AND ADJUST DEPTH AS REQUIRED.
10. ALL WATER MAINS SHALL BE CLASS 52 DUCTILE IRON PIPE (DIP) EXCEPT WHERE HDPE IS SPECIFIED ON PLANS.
11. ALL GRAVITY SEWER MAINS SHALL BE CLASS 50 DUCTILE IRON PIPE. ALL PRESSURE SEWER LINES AND FORCE MAINS SHALL BE SDR 11 HIGH DENSITY POLYETHYLENE PIPE (HDPE).
12. PROFILE GRADES SHOWN ARE APPROXIMATE ELEVATIONS. CONTRACTOR SHALL FIELD VERIFY ACTUAL GRADES.
13. CONTRACTOR SHALL NOTIFY CUSTOMERS 48 HOURS IN ADVANCE OF ANY WATER OR SEWER SERVICE INTERRUPTIONS. CONTRACTOR SHALL ALSO PROVIDE TEMPORARY SERVICE TO EXISTING CUSTOMERS IF DEEMED NECESSARY BY THE ENGINEER.
14. PIPE LENGTHS FOR SLOPES LESS THAN 10% ARE BASED ON THE HORIZONTAL DISTANCE BETWEEN THE CENTER OF CONNECTING STRUCTURES OR FITTINGS. PIPE LENGTHS FOR SLOPES GREATER THAN 10% ARE BASED ON THE ACTUAL DISTANCE BETWEEN THE CENTER OF CONNECTING STRUCTURES OR FITTINGS. PIPE SLOPES ARE CALCULATED USING THE HORIZONTAL LENGTH OF PIPE MEASURED FROM THE INSIDE FACE OF STRUCTURES.
15. CONTRACTOR SHALL SALVAGE EXISTING CULVERTS WHERE POSSIBLE AND DELIVER THEM TO THE OWNER AS REQUIRED BY THE ENGINEER.
16. "BOP" IS DEFINED AS THE OUTSIDE BOTTOM OF PIPE. "INVERT" IS DEFINED AS THE INSIDE BOTTOM OF PIPE.
17. MAXIMUM DEFLECTION OF PIPE PER JOINT SHALL NOT EXCEED 80% OF THE MANUFACTURER'S RECOMMENDED JOINT DEFLECTION.
18. ALL FITTINGS AND VALVES SHALL HAVE MECHANICAL JOINT CONNECTIONS UNLESS OTHERWISE SHOWN ON THE DRAWINGS.
19. ALL MECHANICAL JOINTS SHALL BE RESTRAINED BY EBAA IRON MEGALUGS, OR EQUAL. EBAA IRON MEGALUGS, OR EQUAL SHALL BE SUBSTITUTED FOR TIE RODS WHERE TIE RODS ARE REQUIRED.

ABBREVIATIONS

AC = ASPHALT CONCRETE
ACP = AC PAVEMENT
APPROX = APPROXIMATE
BM = BENCH MARK
B.O.C. = BACK OF CURB
B.O.P. = BOTTOM OF PIPE
BV = BUTTERFLY VALVE
C&G = CURB AND GUTTER
CI = CAST IRON
CL = CENTERLINE
CONT = CONTINUOUS
CMP = CORRUGATED METAL PIPE
C.O. = CLEAN-OUT
CPEP = CORRUGATED POLYETHYLENE PIPE
DI = DUCTILE IRON
DIA = DIAMETER
DIP = D.I. PIPE
E = ELECTRICAL
ELEV = ELEVATION
E.O.P. = END OF PAVEMENT
ESMT = EASEMENT
EXC = EXCAVATION
FG = FINISHED GRADE (ELEV.)
F.L. = FLOW LINE (ELEV.)
GALV = GALVANIZED
GB = GRADE BREAK
GV = GATE VALVE
H = HORIZONTAL
HDPE = HIGH DENSITY POLYETHYLENE
HT = HEIGHT
IE = INVERT ELEV.
INV = INVERT
L = LENGTH
LF = LINEAR FEET
LT = LEFT
MAX = MAXIMUM
ME = MATCH EXISTING (GRADE)
MFR = MANUFACTURER
MH = MANHOLE
MIN = MINIMUM
N = NORTHING
NFS = NON-FROST SUSCEPTIBLE
N.I.C. = NOT IN CONTRACT
N.T.S. = NOT TO SCALE
O.C. = ON CENTER
OF = OUTFALL
OG = ORIGINAL GROUND (ELEV.)
OSHA = OCCUPATIONAL SAFETY & HEALTH ADMINISTRATION
PCC = PORTLAND CEMENT CONCRETE
PCMP = PRE-COATED CMP
PL = PROPERTY LINE
PP = POWER POLE
R = RADIUS (LENGTH)
RC = REINFORCED CONCRETE
R.P. = RADIUS POINT
RT = RIGHT
R/W = RIGHT-OF-WAY
S = SEWER
S.I. = STREET INTERSECTION
S.S. = STAINLESS STEEL
SS = SANITARY SEWER
STA = STATION
STD = STANDARD
TCB = TOP BACK OF CURB
TBM = TEMPORARY BENCHMARK
T.O.C. = TOP OF CONCRETE
TYP = TYPICAL
U/G = UNDER GROUND
UON = UNLESS OTHERWISE NOTED
V = VENT
VB = VALVE BOX
VPI = VERTICAL POINT OF INTERSECTION
W = WATER
WWF = WELDED WIRE FABRIC
WT = WATER TABLE
> = GREATER THAN
< = LESS THAN
≥ = GREATER THAN OR EQUAL TO
≤ = LESS THAN OR EQUAL TO

LEGEND

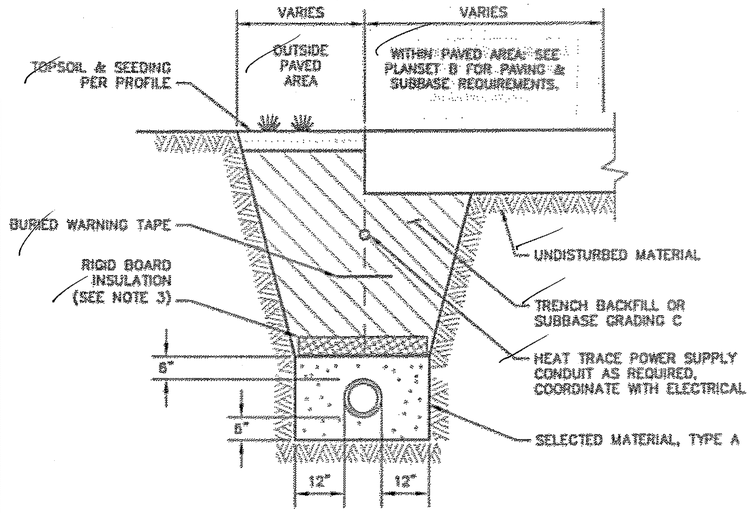
PROPOSED	EXISTING	DESCRIPTION
		BENCH MARK
		TEMPORARY BENCH MARK
		SURVEY MONUMENT
	●I.P.	IRON PIN RECOVERED
		PROPERTY LINE
		MEAN HIGHER HIGH WATER
		R-O-W
		EDGE OF GRAVEL ROAD
		STREET SIGN
		TREE OR SHRUB
		BUILDING
		INSULATION
		LIGHT POLE
		POWER POLE
		GUY ANCHOR
		ELECTRIC LINES
		TELEPHONE LINES
		FILL LIMIT

GENERAL

LEGEND

PROPOSED	EXISTING	DESCRIPTION
		CUT LIMIT
		FENCE
		BOLLARD
		WATER LINE
		FIRE HYDRANT
		WATER PLUG OR CAP
		MAIN LINE VALVE
		WATER SERVICE
		AIR RELEASE VALVE
		VACUUM VALVE VAULT
		GRAVITY SEWER LINE
		GRAVITY SEWER SERVICE
		SEWER FORCE MAIN
		SEWER MANHOLE
SEWER		SEWER CLEANOUT
		SEWER LIFT STATION
		SEWER PLUG

GENERAL / WATER / SEWER



TRENCH SECTION NOTES:

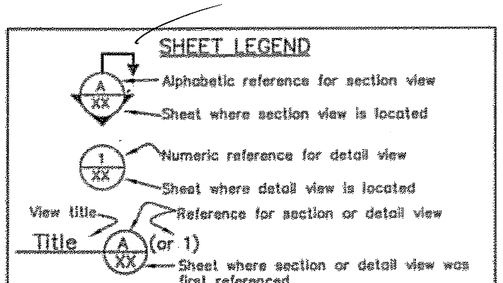
1. TRENCH EXCAVATION AND SHORING SHALL COMPLY WITH ALL LOCAL, STATE, AND OSHA REGULATIONS AND REQUIREMENTS. INDICATED SLOPE IS FOR PAY QUANTITY DETERMINATIONS ONLY FOR IMPORTED BACKFILL MATERIAL.
2. ALL ORGANIC MATERIAL (MUSKEG) SHALL BE REMOVED AND DISPOSED OF FROM THE TRENCH SECTION.
3. INSTALL 2-INCH THICK BY TRENCH WIDTH (30" MINIMUM) RIGID BOARD INSULATION WHERE SHOWN ON THE PLAN & PROFILE DRAWINGS OR WHERE THE DEPTH OF BURY FOR FORCE MAIN IS LESS THAN 4-FEET.

A – TYPICAL UTILITY TRENCH SECTION
NOT TO SCALE

ESTIMATE OF QUANTITIES

ITEM NO.	PAY ITEM	PAY UNIT	QUANTITY
201(3B)	CLEARING AND GRUBBING	LUMP SUM	ALL REQUIRED
~~303(19)~~	~~TRENCH BLASTING FOR SEWER/WATER UTILITIES~~ Delete CO 1	~~LINEAR FOOT~~	~~1250~~
626(1-6)	SANITARY SEWER CONDUIT, 6-INCH CO No 1	LINEAR FOOT	~~315~~ 108
626(2)	SEWER SERVICE CONNECTION, 4-INCH	LUMP SUM	ALL REQUIRED
626(3)	SANITARY SEWER CLEANOUT	EACH	2
626(4)	SANITARY SEWER FORCE MAIN, 3-INCH HDPE CO NO.1	LINEAR FOOT	~~515~~ 566
~~626(5)~~	~~ARCTIC PIPE SANITARY SEWER FORCE MAIN, 3-INCH HDPE~~ DEL. CO NO.1	~~LINEAR FOOT~~	~~90~~
627(1A)	8-INCH DUCTILE IRON WATER CONDUIT, CLASS 52	LINEAR FOOT	~~740~~ 748
627(1B)	8-INCH HDPE WATER CONDUIT, SDR 11 CO-1	LINEAR FOOT	~~255~~ 209
~~627(1C)~~	~~8-INCH HDPE ARCTIC PIPE WATER CONDUIT~~ Del-CO NO.1	~~LINEAR FOOT~~	~~180~~
627(5)	FIRE HYDRANT INSTALLATION – CO NO.1	EACH	2
627(8A)	WATER SERVICE CONNECTIONS, 2-INCH	LUMP SUM	ALL REQUIRED
627(8B)	WATER SERVICE CONNECTION, 1-INCH	LUMP SUM	ALL REQUIRED
627(9-8)	INSTALL 8-INCH GATE VALVE	EACH	7
627(11)	VACUUM VALVE VAULT	LUMP SUM	ALL REQUIRED
628(1)	SANITARY SEWER TREATMENT FACILITY	LUMP SUM	ALL REQUIRED
629(1)	SANITARY SEWER LIFT STATION & VALVE VAULT	LUMP SUM	ALL REQUIRED
635(1)	INSULATION BOARD ~~FOR UTILITIES, R-20~~	MBM	~~0.096~~ 0.8
CO NO.1 → 203(22)	UNC EXC/EARTHWORK; DRAINAGE MODS – CO NO.1	Lump Sum	All Required

SHEET LEGEND



DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

DESIGNED BY: MIKE L.
CHECKED BY: PETE B.
DRAWN BY: JUSTIN K.

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SE REGION DESIGN & ENGINEERING SERVICES DIVISION

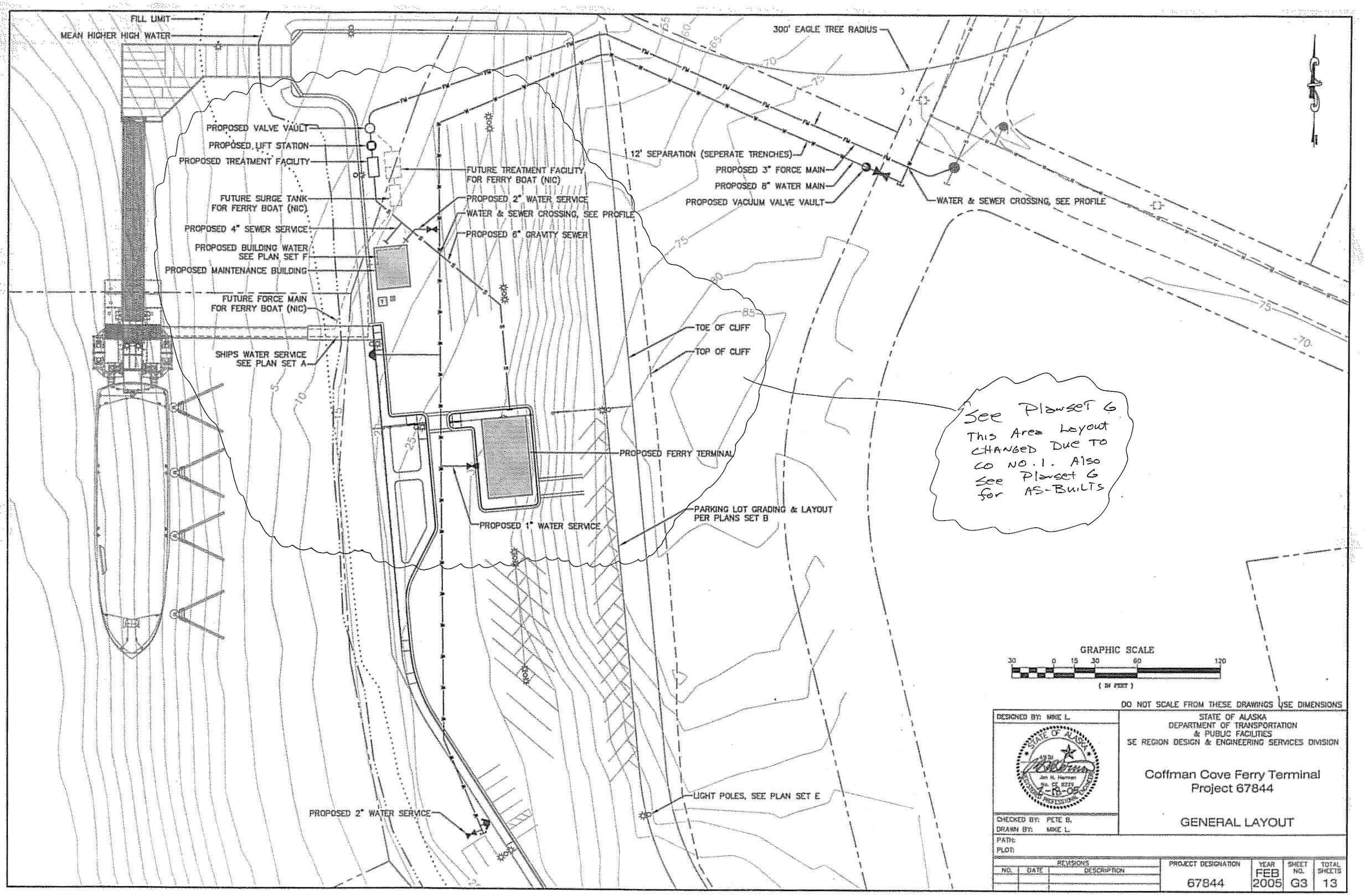
Coffman Cove Ferry Terminal
Project 67844

NOTES, LEGEND, TRENCH SECTION & ESTIMATE OF QUANTITES

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PLOT:

REVISIONS NO.	DATE	DESCRIPTION	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			67844	FEB 2005	G2	13

2/2007



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DESIGNED BY: MIKE L.	STATE OF ALASKA DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES SE REGION DESIGN & ENGINEERING SERVICES DIVISION
	Coffman Cove Ferry Terminal Project 67844
CHECKED BY: PETE B. DRAWN BY: MIKE L.	GENERAL LAYOUT
PATH: PLOT:	

REVISIONS NO.	DATE	DESCRIPTION	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			67844	FEB 2005	G3	13

GMB 2/07

COORDINATE LISTING

NORTHING	EASTING	DESCRIPTION	C/L PIPE STATION
501949.030	99602.556	CONNECT TO BUILDING SEWER	1+02.83
502024.422	99595.408	CLEANOUT 1 & 45° BEND	1+78.66
502098.471	99505.847	CLEANOUT 2 & 45° BEND	2+94.87
502123.287	99503.494	SECONDARY TREATMENT FACILITY	3+19.80
502138.718	99502.031	WET WELL MANHOLE	3+35.30
502150.665	99500.899	VALVE VAULT	3+47.30
502161.038	99501.484	76° BEND (SEE NOTE)	3+57.92
502118.620	99901.842	45° BEND (SEE NOTE)	7+89.71
502124.764	99819.084	EXISTING MANHOLE	8+08.08

SEWER SERVICE SCHEDULE

STATION	OFFSET	SIZE (INCHES)	LENGTH (FEET)
2+70.73	LT	4"	18.08

NOTE: SEE PLAN SET B FOR SURVEY CONTROL

FUTURE SEAPLANE BASE (NIC)

STA. 3+47.30
VALVE VAULT
SEE SHEET S4

STA. 3+34.80
LIFT STATION
SEE SHEET S4

STA. 3+19.30
TREATMENT FACILITY
SEE SHEET S6

STA. 2+94.87
F&I 45° FITTING
& CLEANOUT #2

STA. 1+85.73
F&I 45° FITTING
& CLEANOUT #1

STA. 3+57.92
76° BEND (SEE NOTE)

APPROXIMATE FILL LIMIT

MEAN HIGHER HIGH WATER LINE (ELEVATION 15.6')

NOTE:
SMALLEST BENDING RADIUS FOR 3"ø HDPE FORCE MAIN SHALL NOT BE LESS THAN 8.0-FEET.

SEE SHEET S2
DETAIL 1

SEE PLAN SET F
FOR MAINTENANCE
BUILDING SEWER

SEE PLAN SET F
FOR TERMINAL
BUILDING SEWER

300' EAGLE TREE RADIUS

See Plan Sheets G
CO NO 1 Changed
Layout. See Planset
G for AS-Builts
Also

APPROXIMATE TOP OF
CLIFF (CUT LIMIT)

APPROXIMATE TOE OF CLIFF

STA 7+89.71
45° BEND (SEE NOTE)

STA. 8+08.08
CONNECT TO EXISTING
MANHOLE (MH-N-8A)

GRAPHIC SCALE
50 0 25 50 100 200
(IN FEET)

Layout Changed due to CO NO.1 See Planset G

TERMINAL BUILDING

207.87 LF
6"ø DIP CL 50
S = 0.0119

DIP

42.00 LF

HDPE

161.74 LF
3"ø SDR 11 HDPE
S = 0.0080

STA. 1+02.83
CONNECT TO BUILDING SEWER
PER PLAN SET F
BOP = 23.82

STA. 3+10.80
CONNECT TO TREATMENT FACILITY
INVERT = 21.33

STA. 3+52.60
CONNECT TO VALVE VAULT
INVERT = 19.25

FINISH GRADE

ORIGINAL GROUND

BY OTHERS

PROPOSED 6"ø WATER MAIN

STA. 1+78.66
45° FITTING &
CLEANOUT 1
INVERT = 22.92

STA. 2+94.87
45° FITTING &
CLEANOUT 2
INVERT = 21.50

LIFT STATION SEE
SHEET S4 FOR INVERT
ELEVATIONS

HDPE ARCTIC
PIPE SEE
SHEET S2
DETAIL 1

TOPSOIL & SEED

EXISTING MANHOLE MH-N-8A

FINISH GRADE

203.42 LF
3"ø SDR 11 HDPE
S = 0.2354

PROPOSED 6"ø
WATER MAIN

STA. 6+78.77
GRADE BREAK
INVERT = 50.99

STA. 6+56.31
GRADE BREAK
INVERT = 69.71

STA. 7+22.97
GRADE BREAK
INVERT = 71.83

STA. 8+02.58
GRADE BREAK
INVERT = 74.42

STA. 8+08.08
CONNECT TO EXISTING MANHOLE
INVERT = 74.42

8.50 LF
3"ø SDR 11 HDPE
S = 0.0000

116.66 LF
3"ø SDR 11 HDPE
S = 0.0182

29.61 LF
3"ø SDR 11 HDPE
S = 0.0875

HDPE ARCTIC
PIPE SEE
SHEET S2
DETAIL 1

This Area the Arctic Pipe was deleted along with the Thaw wire. Contractor installed with +5' of Bury

NOTE:
FORCE MAIN SHALL HAVE A CONTINUOUS UPWARD SLOPE TOWARDS MANHOLE (MH-N-8A) OVER ENTIRE LENGTH.

1+00 2+00 3+00 4+00 5+00 6+00 7+00 8+00

FEBRUARY 2005

ADDENDUM NUMBER
ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION

POW-COFFMAN COVE
FERRY TERMINAL
STP-0003(66) ~ 67844

GRAVITY SEWER & FORCE MAIN
PLAN & PROFILE
STA 1+05 TO 8+08.08

DESIGNED BY: MIKE L.

STATE OF ALASKA
JOHN H. HARRISON
No. CE-8229
REGISTERED PROFESSIONAL ENGINEER
2-16-05

CHECKED BY: PETE B.

DRAWN/REVISED BY: MIKE L.

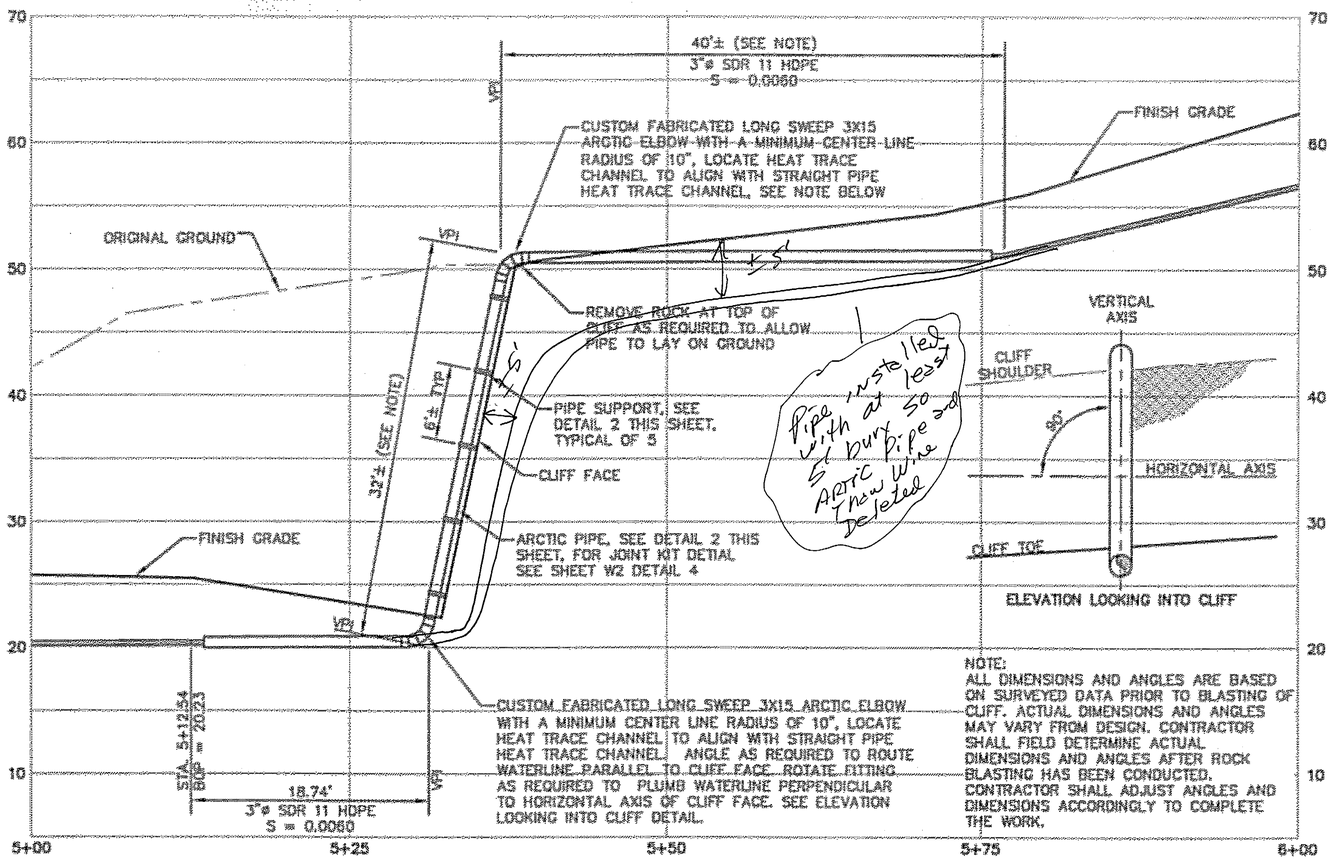
STATE OF ALASKA
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COFFMAN COVE
FERRY TERMINAL

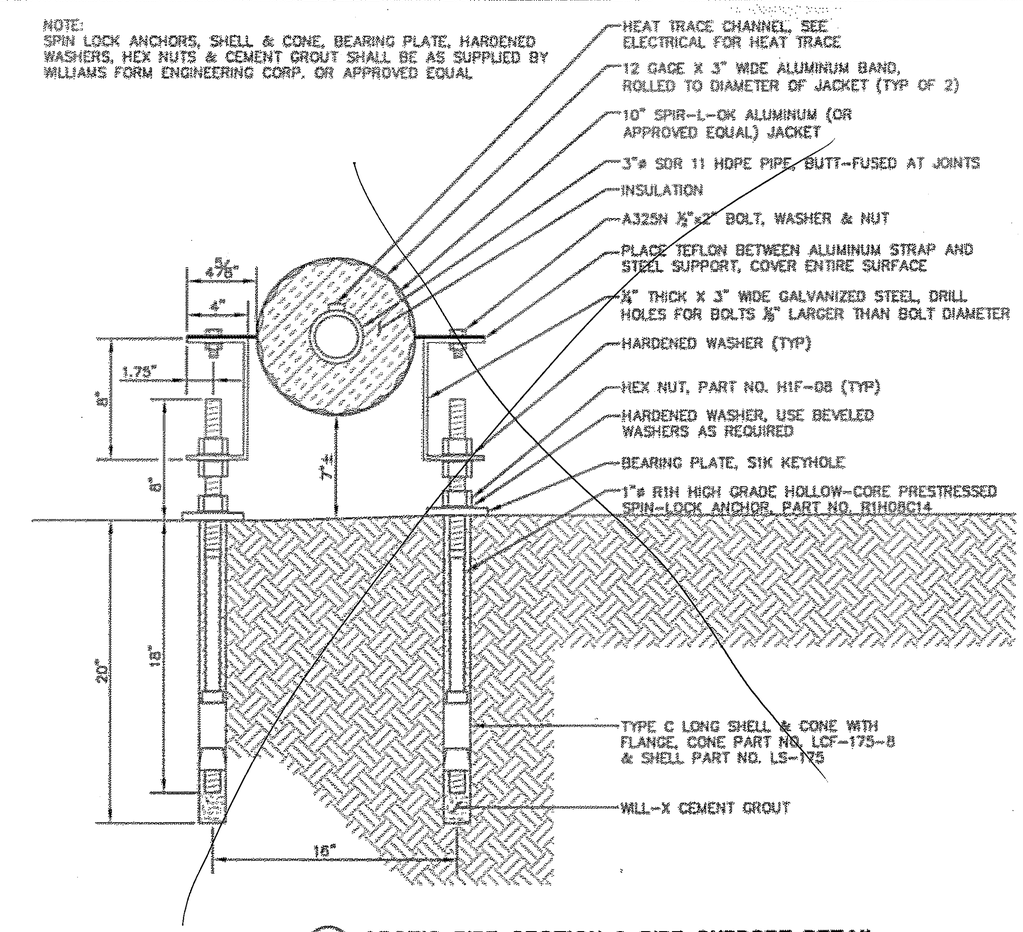
GRAVITY SEWER & FORCE MAIN
STA 1+05 TO 8+08.08

PROJECT DESIGNATION NUMBER	
STP-0003(66)~67844	
STATE	YEAR
ALASKA	2005
SHEET NUMBER	TOTAL SHEETS
S1	13

2/07

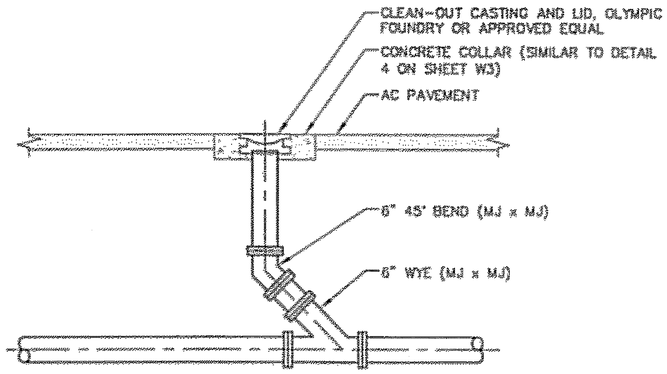


1 / S1 **3-INCH SEWER FORCE MAIN - ARCTIC PIPE SECTION**
AS SHOWN



2 / S2 **ARCTIC PIPE SECTION & PIPE SUPPORT DETAIL**
AS SHOWN

Deleted - CO NO. 1



3 / – **CLEAN-OUT DETAIL**
AS SHOWN

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CHECKED BY: PETE B.
DRAWN BY: MIKE L.

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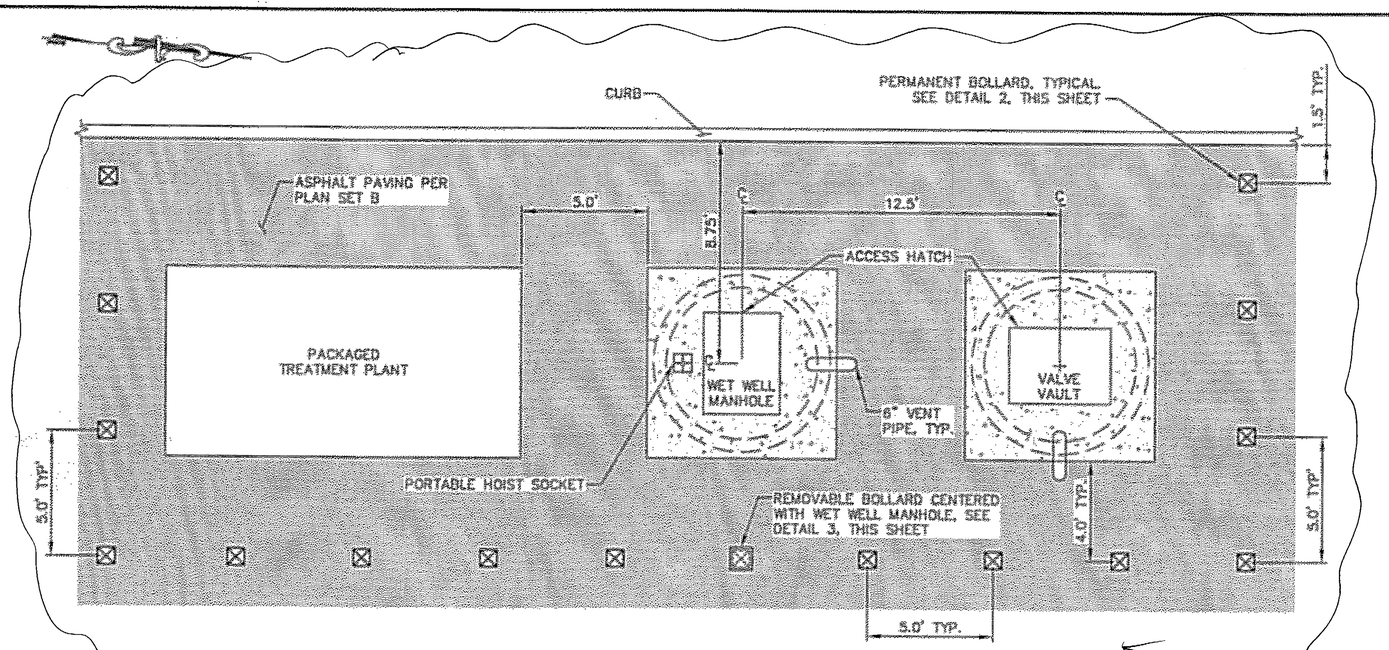
Coffman Cove Ferry Terminal
Project 67844

SEWER MAIN DETAILS

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PLOT:

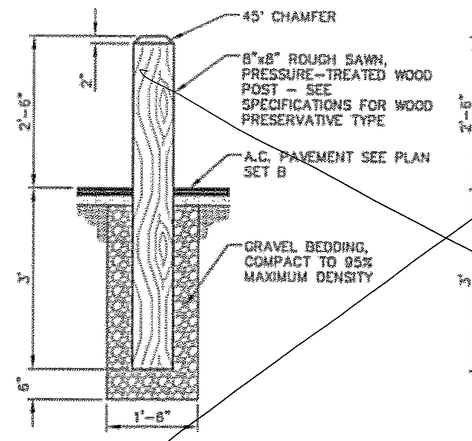
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			67844	FEB 2005	S2	13

V GB 2/07

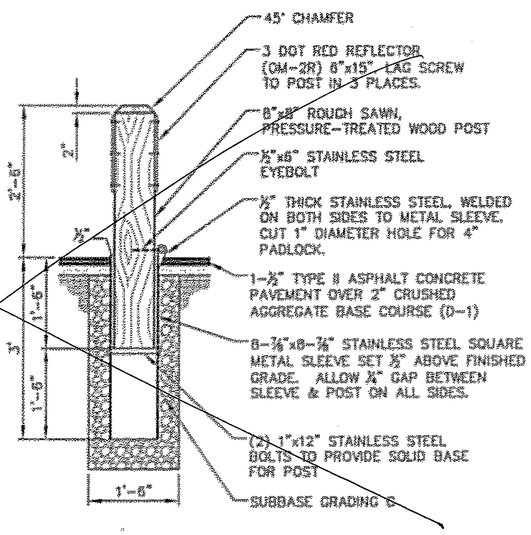


1/– TYPICAL LIFT STATION BOLLARD PLACEMENT
NOT TO SCALE

This Layout Changed due to CO NO 1. see Planset 6.

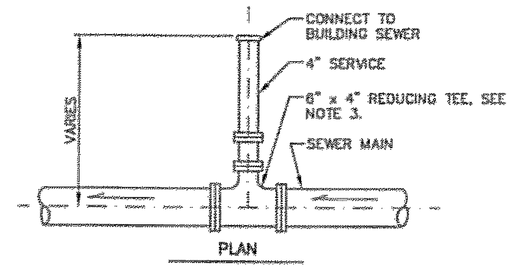


2/S3 PERMANENT BOLLARD DETAIL
NOT TO SCALE



3/S3 REMOVABLE BOLLARD DETAIL
NOT TO SCALE

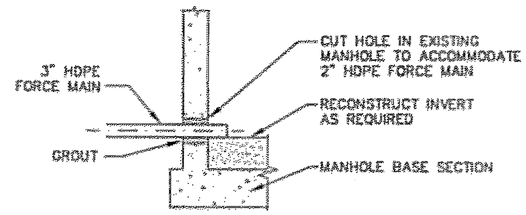
CURB, GUTTER ISLAND USED INSTEAD Bollards



SEWER SERVICE CONNECTION NOTES:

1. SERVICE CONNECT SHALL BE 4" MINIMUM DIAMETER.
2. SEWER SERVICE PIPING SHALL BE DUCTILE IRON (CLASS 52).
3. INLAND FOUNDRY COMPANY (IFCO) 1068 4" SINGLE STRAP SADDLE OR EQUAL MAY BE SUBSTITUTED FOR REDUCING TEE.

5/– SEWER SERVICE CONNECTION DETAIL
NOT TO SCALE



5/S3 EXISTING MANHOLE PIPE CONNECTION
NOT TO SCALE

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CHECKED BY: PETE B.
DRAWN BY: JUSTIN K.
PATH: J:\Jobdata\30101 Coffman Cove Ferry Terminal\00 CADD\Drawings\30101-S3.dwg
PLOT:

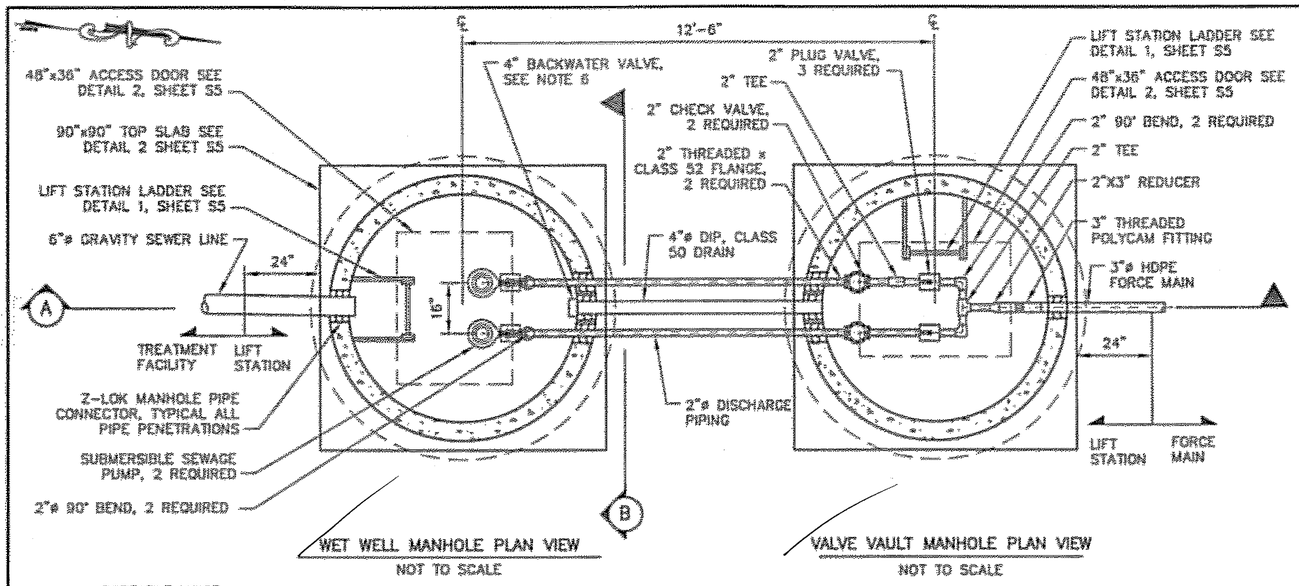
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Coffman Cove Ferry Terminal
Project 67844

SEWER SYSTEM DETAILS

REVISIONS NO.	DATE	DESCRIPTION	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
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WET WELL MANHOLE PLAN VIEW
NOT TO SCALE

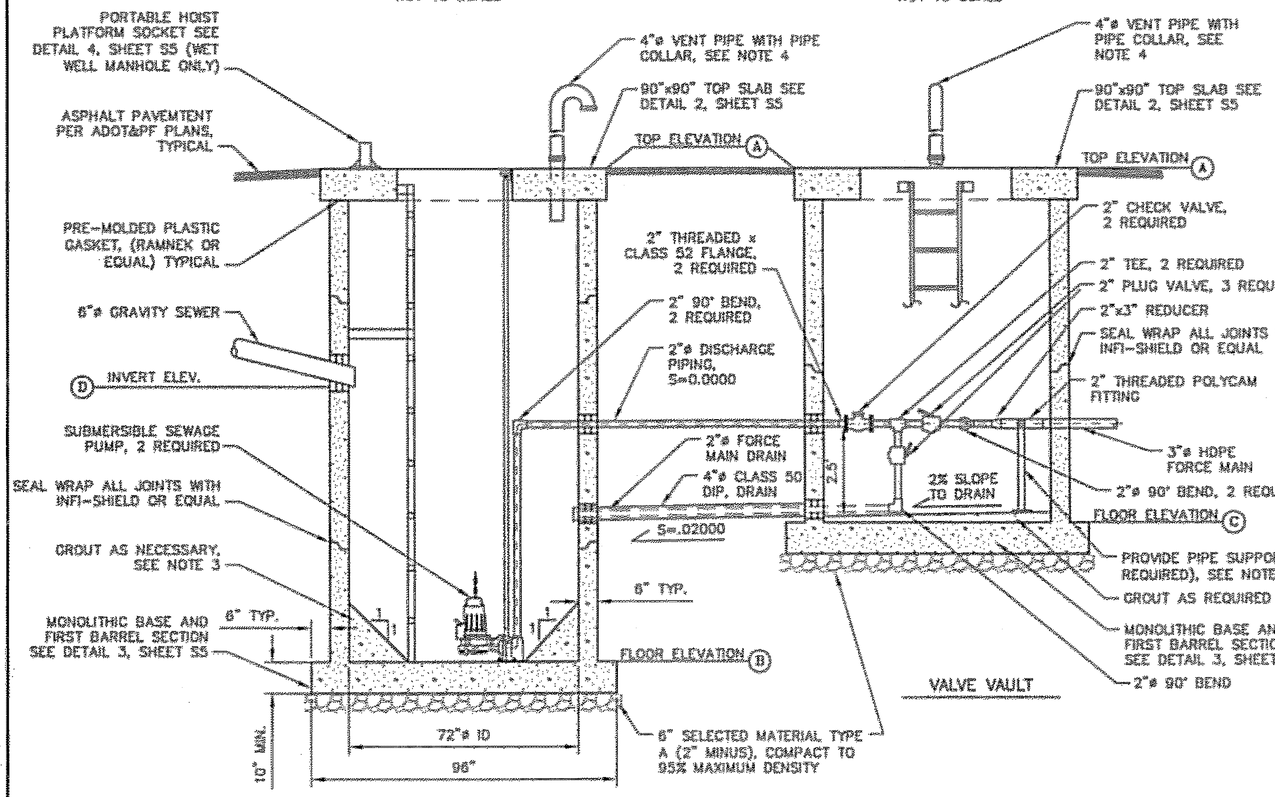
VALVE VAULT MANHOLE PLAN VIEW
NOT TO SCALE

DIMENSION	DESCRIPTION	LIFT STATION H1
A	TOP ELEVATION	26.00'
B	FLOOR ELEVATION (WET WELL MANHOLE)	12.92'
C	FLOOR ELEVATION (VALVE VAULT)	16.65'
D	GRAVITY SEWER INVERT ELEVATION	20.75'
E	HIGH LEVEL ALARM ELEVATION	15.92'
F	LAG PUMP ON ELEVATION	15.42'
G	LEAD PUMP ON ELEVATION	14.92'
H	ALL PUMPS OFF ELEVATION	13.92'
I	LOW LEVEL ALARM ELEVATION	13.42'

Relationship (change in Elev.) Remain Same. But Actual Elevations changed due to CO No. 1. See Planset 6.

LIFT STATION NOTES:

1. ALL INTERIOR LIFT STATION PIPING SHALL BE SCH. 40 GALVANIZED STEEL.
2. EXCAVATIONS ADJACENT TO LIFT STATION SHALL BE BACKFILLED WITH SELECTED MATERIAL TYPE C. PLACE IN 8" LIFTS AND COMPACT TO 95% OF MAXIMUM DENSITY. USE LIGHT HAND COMPACTION EQUIPMENT AS NECESSARY TO AVOID DAMAGE TO STRUCTURE AND APPURTENANCES.
3. GROUT BOTTOM OF WET WELL TO PROVIDE MINIMUM 1:1 SLOPE TO PUMP SUCTION. HEIGHT OF GROUT SHALL NOT EXCEED 24-INCH IN WET WELL.
4. VENT PIPE SHALL BE HOT DIP GALVANIZED, SCHEDULE 40 STEEL PIPE WITH PIPE COLLAR. CAST PIPE AND COLLAR INTO TOP SLAB; TERMINATE VENT 4-FEET ABOVE TOP SLAB WITH 180° RETURN BEND. INSTALL 1/4-INCH GALVANIZED MESH INSECT SCREEN OVER BEND OPENING.
5. FURNISH AND INSTALL PIPE SUPPORTS, GRINNEL FIG. 192 WITH 2-INCH PIPE (1 REQUIRED) AND 3" PIPE (1 REQUIRED) AND FLOOR FLANGE OR APPROVED EQUAL.
6. FURNISH AND INSTALL BACKWATER TERMINAL VALVE, JAY R. SMITH FIGURE 7070 OR EQUAL.
7. MANHOLE FOR WET WELL AND VALVE VAULT SHALL CONFORM TO STANDARD SPECIFICATIONS FOR PRE-CAST MANHOLE SECTIONS EXCEPT AS MODIFIED BY THESE PLANS.



WET WELL MANHOLE

SECTION A
NOT TO SCALE

SECTION B
NOT TO SCALE

1 / S1 WET WELL MANHOLE AND VALVE VAULT
NOT TO SCALE

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DRAWN BY: JUSTIN K.

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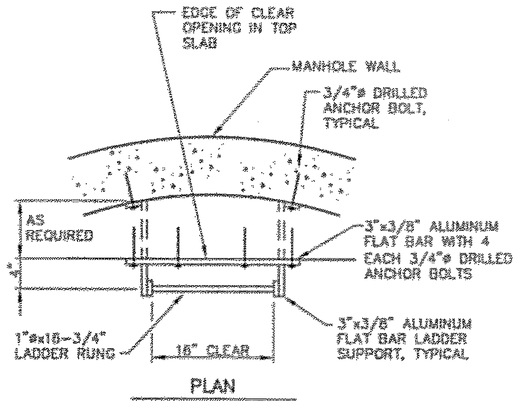
Coffman Cove Ferry Terminal
Project 67844

LIFT STATION & VALVE VAULT PLAN & SECTIONS

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PLOT:

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

MANHOLE LADDER NOTES:

1. DRILL 1-1/16" DIAMETER HOLES IN LADDER STRINGERS TO SUPPORT LADDER RUNGS PRIOR TO WELDING.

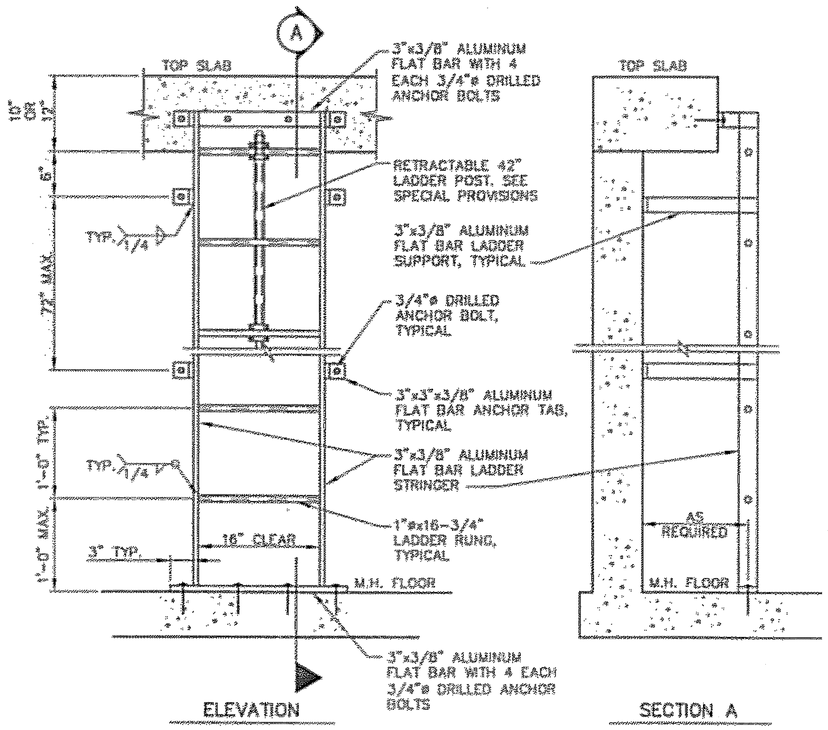
2. ALL SHARP CORNERS AND EDGES SHALL BE ROUNDED OFF.

3. LADDER RUNGS SHALL BE OF EXTRUDED ALUMINUM, NON-SLIP, 800 LB.

4. CONNECTORS AND ANCHOR BOLTS SHALL BE STAINLESS STEEL.

5. EMBEDMENT = 4" FOR ANCHOR BOLTS IN CONCRETE.

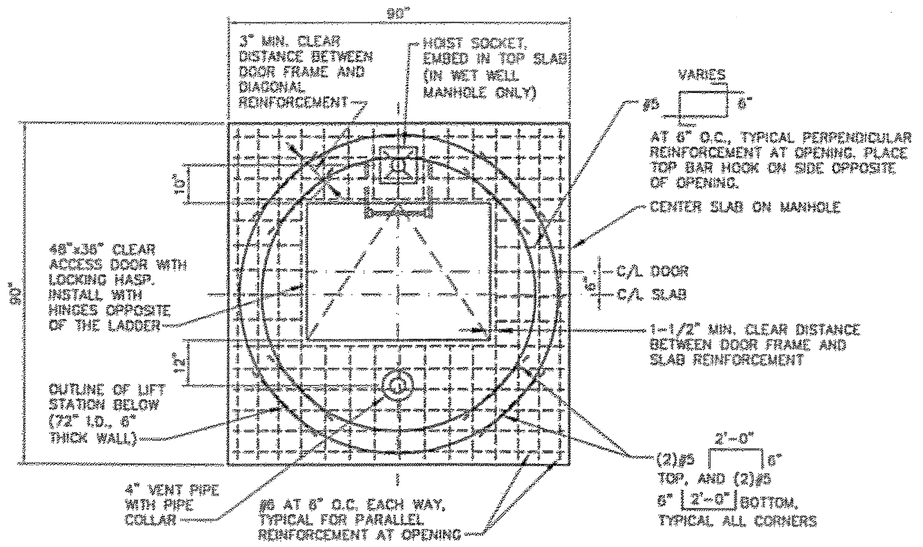
6. LADDER SHALL ACCOMMODATE RETRACTABLE LADDER POST ASSEMBLY, BILCO LADDER-UP OR APPROVED EQUAL.



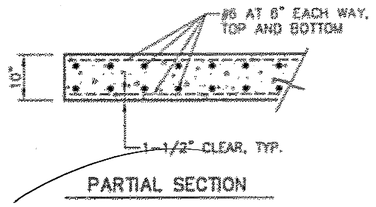
ELEVATION

SECTION A

1 S4 **LIFT STATION LADDER DETAILS**
NOT TO SCALE



PLAN



PARTIAL SECTION

TOP SLAB NOTES:

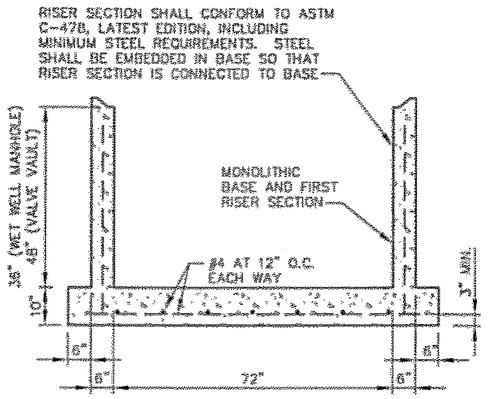
1. CAST TOP SLAB WITH ACCESS DOOR FRAME IN PLACE.

2. CAST TOP SLAB WITH VENT PIPE AND COLLAR IN PLACE.

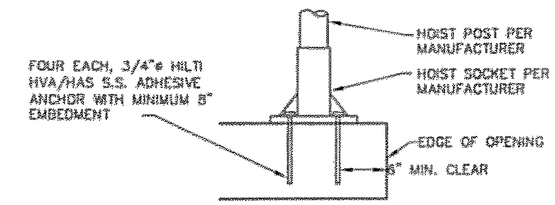
3. PROVIDE EYE BOLTS AS REQUIRED FOR LIFTING AND PLACEMENT. FABRICATE EYE BOLTS WITH TOP SLAB AND WELD TO THE REBAR; CUT FLUSH WITH TOP SURFACE AFTER PLACEMENT.

F'c=4000 PSI MINIMUM
Fy=60 ksi (ASTM A615, GRADE 60)
CLASS A SECTION 501

2 S4 **LIFT STATION TOP SLAB DETAILS**
NOT TO SCALE



3 S4 **LIFT STATION BASE DETAIL**
NOT TO SCALE



4 S4 **WET WELL MANHOLE HOIST SOCKET DETAIL**
NOT TO SCALE

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

DESIGNED BY: MIKE L.
CHECKED BY: PETE S.
DRAWN BY: JUSTIN K.

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

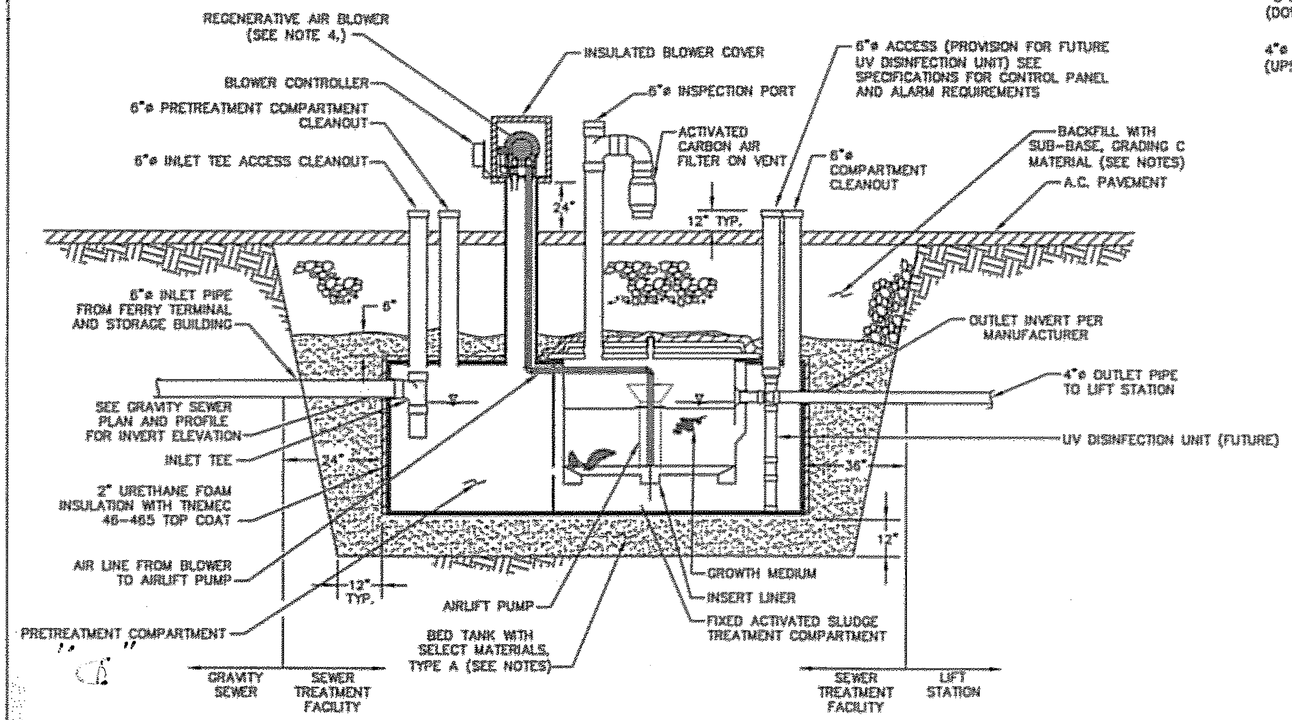
Coffman Cove Ferry Terminal
Project 67844

LIFT STATION & VALVE VAULT DETAILS

PATH: J:\Jobsdata\30101 Coffman Cove Ferry Terminal\00 CADD\Drawings\30101-S5.dwg
PLOT:

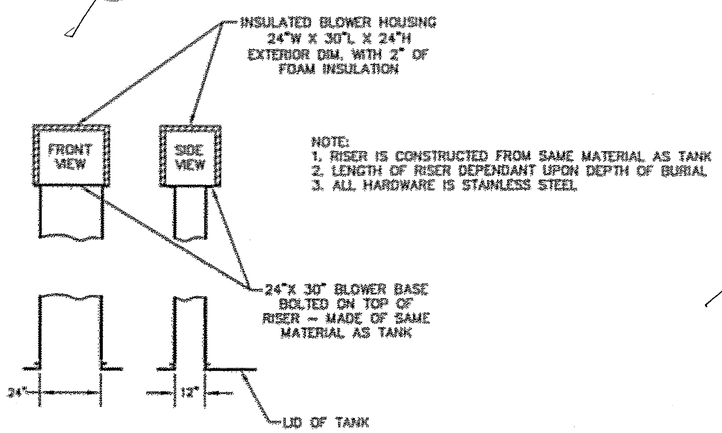
REVISIONS NO.	DATE	DESCRIPTION	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			67844	FEB 2005	S5	13

✓ GB 2/07

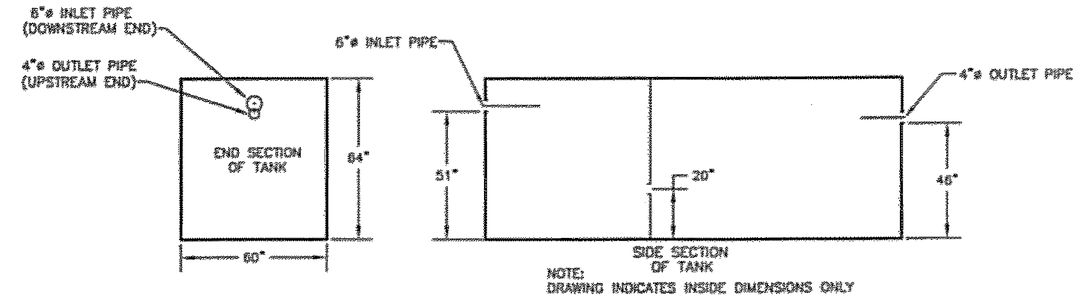


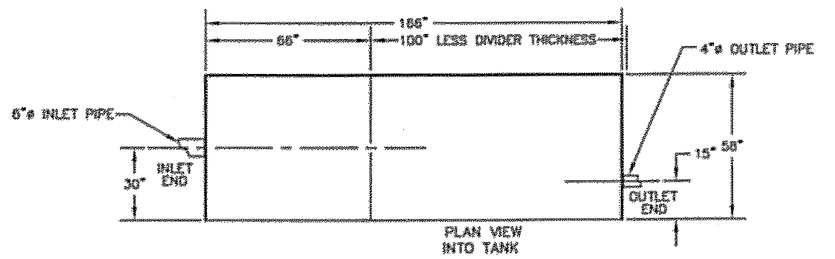
NOTES:
1. THE TANK SHALL BE BEDDED TO 6 INCHES OVER THE TOP OF THE TANK WITH COMPACTED SELECT MATERIALS, TYPE A (100% OF PARTICLES PASSING THE 2 INCH SIEVE) AND THEN BACKFILLED WITH COMPACTED SUB-BASE, GRADING C MATERIAL.
2. CONNECT PIPING AND RISERS TO TANK WITH TY-SEAL COMPRESSION GASKETS OR EQUAL.
3. TANK MATERIAL MAY BE COMPRISED OF POLYPROPYLENE, FIBERGLASS OR CONCRETE PROVIDED THAT SUCH MATERIALS ARE DESIGNED TO FUNCTION IN DIRECT BURY APPLICATION SUBJECT TO OCCASIONAL FREEZING. STEEL SHALL NOT BE USED.
4. AERATION UNIT SHALL BE PROVIDED WITH BOTH A VISUAL AND AUDIBLE ALARM TO INDICATE BLOWER FAILURE. A MANUAL SWITCH SHALL BE PROVIDED TO ACKNOWLEDGE AND SILENCE THE ALARM.

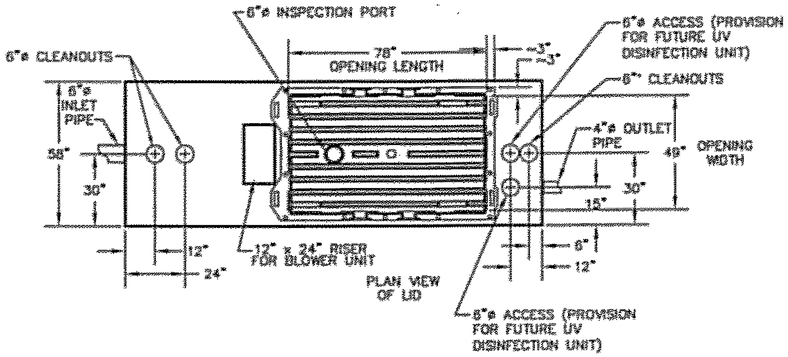
1/G3 SEWAGE TREATMENT PLANT SECTION
NOT TO SCALE



2/— DETAIL DRAWING OF BLOWER RISER
NOT TO SCALE







3/— PLAN & SECTION DRAWING OF SEWAGE TREATMENT TANK
NOT TO SCALE

GENERAL NOTES:

1. DESIGN FLOW RATE = 1000 GPD MAXIMUM DAILY RATE. UNIT IS NOT INTENDED TO RECEIVE WASTE WATER DISCHARGE FROM FERRY VESSEL. (SEE SPECIFICATIONS)
2. WASTEWATER TREATMENT UNIT SHALL BE NSF-40 CERTIFIED AND SHALL CONTINUOUSLY PROVIDE EFFLUENT MEETING THE FOLLOWING QUALITY STANDARDS BASED ON RECEIVING DOMESTIC WASTEWATER:
   - BOD5 < 30 mg/L
   - TSS < 30 mg/L
   - FECAL COLIFORM < 200/100 ML
3. THIS SHEET INDICATES A PRELIMINARY DESIGN OF THE WASTEWATER TREATMENT UNIT. FINAL DESIGN OF TREATMENT UNIT SHALL BE PROVIDED BY THE CONTRACTOR VIA THE SUBMITTAL PROCESS. MANUFACTURING SHALL NOT COMMENCE UNTIL AFTER ALL ELEMENTS OF TREATMENT UNIT DESIGN HAVE BEEN REVIEWED AND APPROVED BY THE ENGINEER. FINAL DIMENSIONS OF APPROVED UNIT MAY VARY FROM THOSE SHOWN.

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

DESIGNED BY: J.L.M.
CHECKED BY: J.A.G.
DRAWN BY: J.L.M.
PATH:
PLOT:

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Coffman Cove Ferry Terminal
Project 67844

SANITARY SEWER TREATMENT FACILITY

REVISIONS NO.	DATE	DESCRIPTION	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
1	2/2005	COMMENT REVISIONS	67844	2005	S6	13

2/07

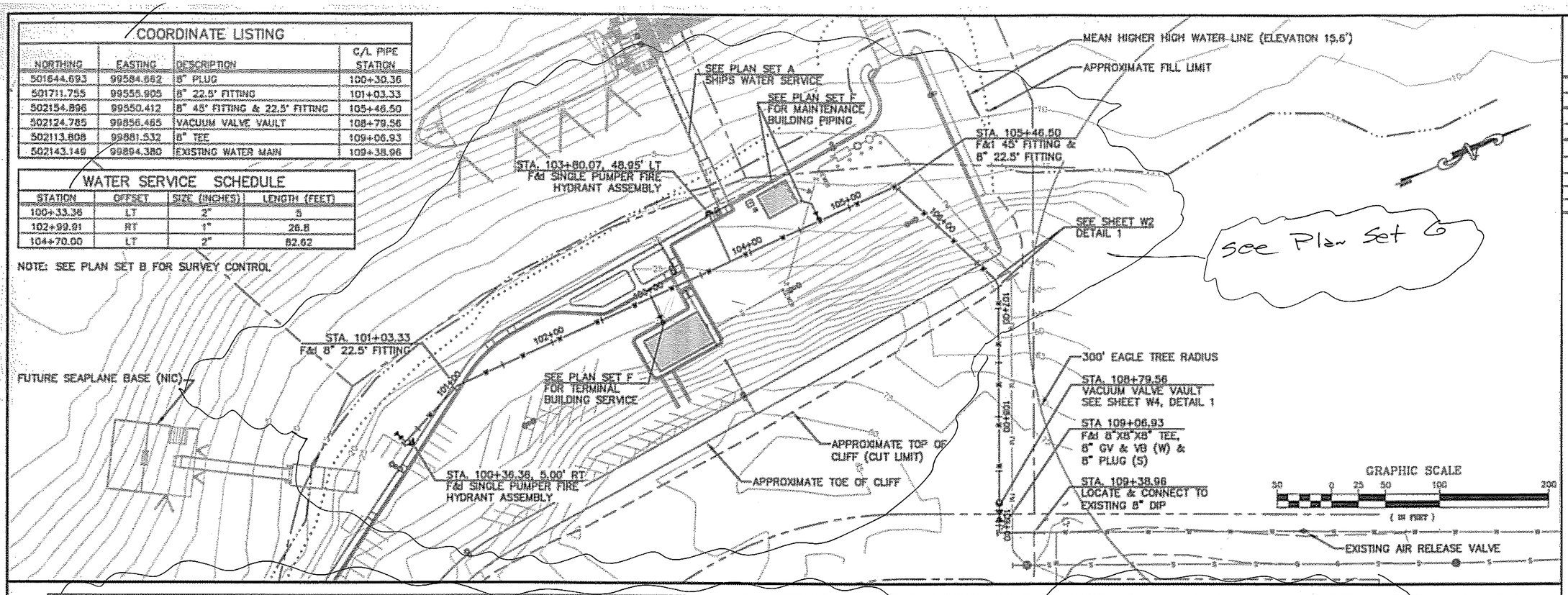
COORDINATE LISTING

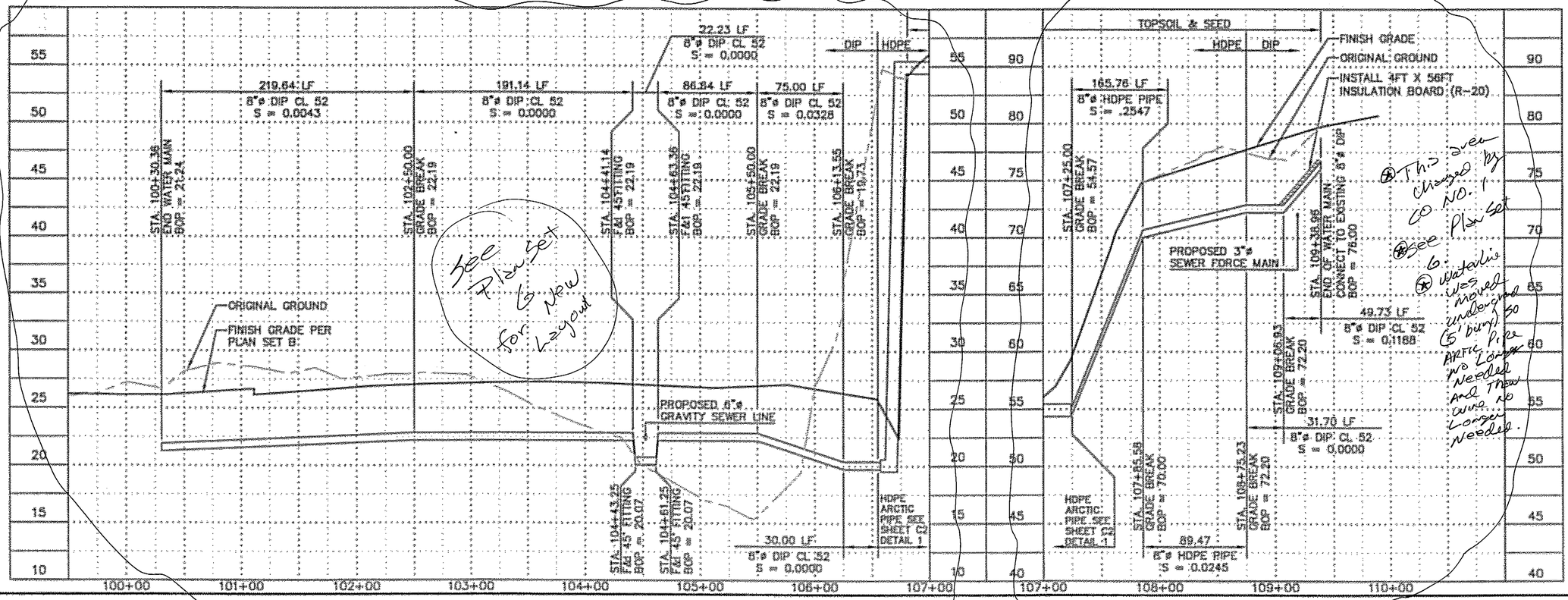
NORTHING	EASTING	DESCRIPTION	C/L PIPE STATION
501644.693	99584.662	8" PLUG	100+30.36
501711.755	99555.905	8" 22.5° FITTING	101+03.33
502134.896	99550.412	8" 45° FITTING & 22.5° FITTING	105+46.50
502124.785	99856.465	VACUUM VALVE VAULT	108+79.56
502113.808	99881.532	8" TEE	109+06.93
502143.149	99894.380	EXISTING WATER MAIN	109+38.96

WATER SERVICE SCHEDULE

STATION	OFFSET	SIZE (INCHES)	LENGTH (FEET)
100+33.36	LT	2"	5
102+99.91	RT	1"	26.8
104+70.00	LT	2"	82.62

NOTE: SEE PLAN SET B FOR SURVEY CONTROL





FEBRUARY 2005

ADDENDUM NUMBER

ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION

POW-COFFMAN COVE
FERRY TERMINAL
STP-0003(66) -- 67844

WATER MAIN PLAN & PROFILE
STA 100+00 TO 109+38.96

DESIGNED BY: MIKE L.

STATE OF ALASKA — JAMES H. HARRISON — 2-18-05 — REGISTERED PROFESSIONAL ENGINEER

CHECKED BY: PETE B.

DRAWN/REVISED BY: MIKE L.

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

COFFMAN COVE
FERRY TERMINAL

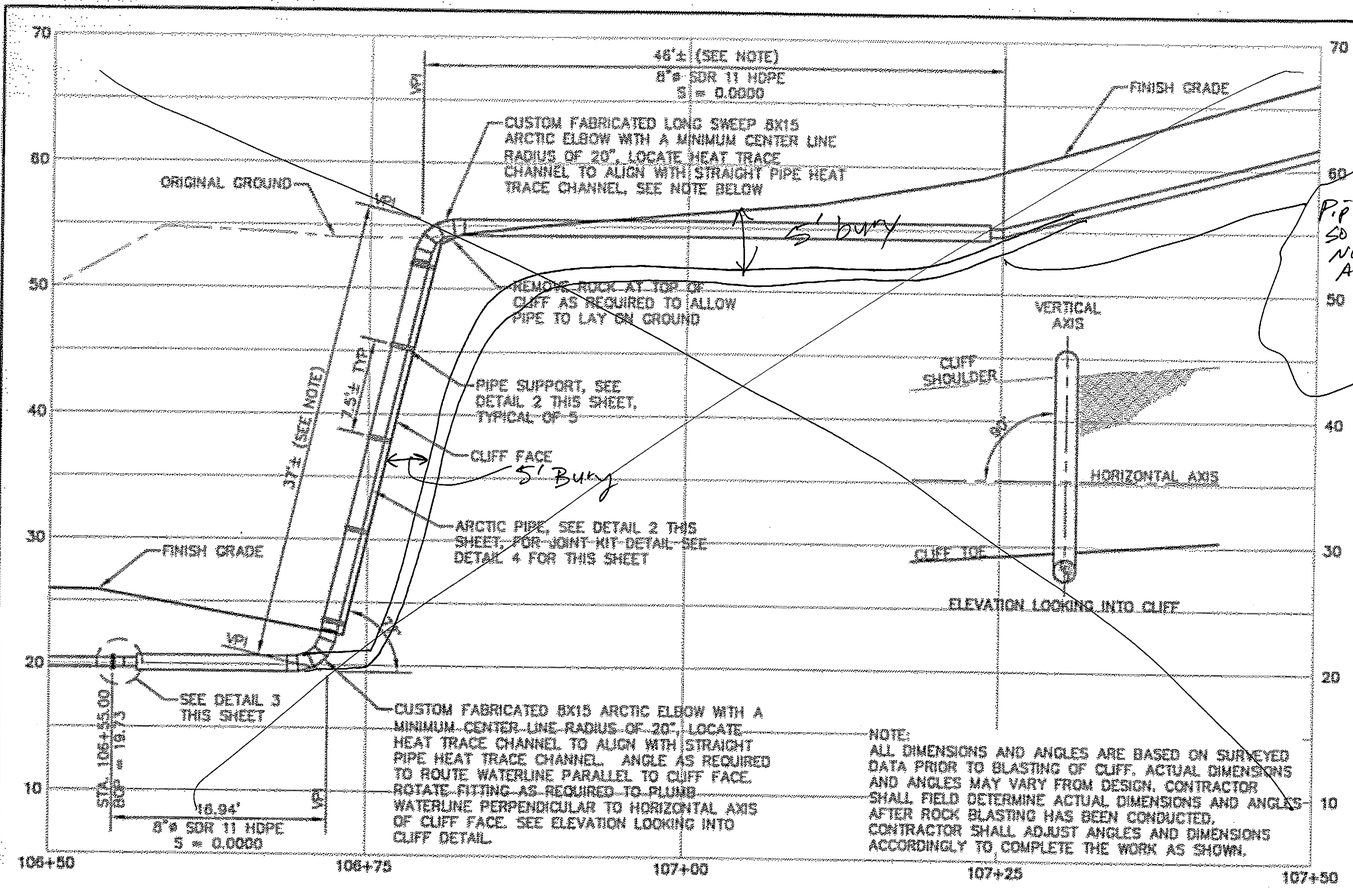
WATER MAIN
PLAN & PROFILE
STA 100+00 TO 109+38.96

PROJECT DESIGNATION NUMBER
STP-0003(66)--67844

STATE	YEAR
ALASKA	2005
SHEET NUMBER	TOTAL SHEETS
W1	13

(A) This area changed by CO NO. 1 See Plan Set G. Waterline was moved underground 5' bury pipe Arctic pipe no longer needed And Tees are no longer needed.

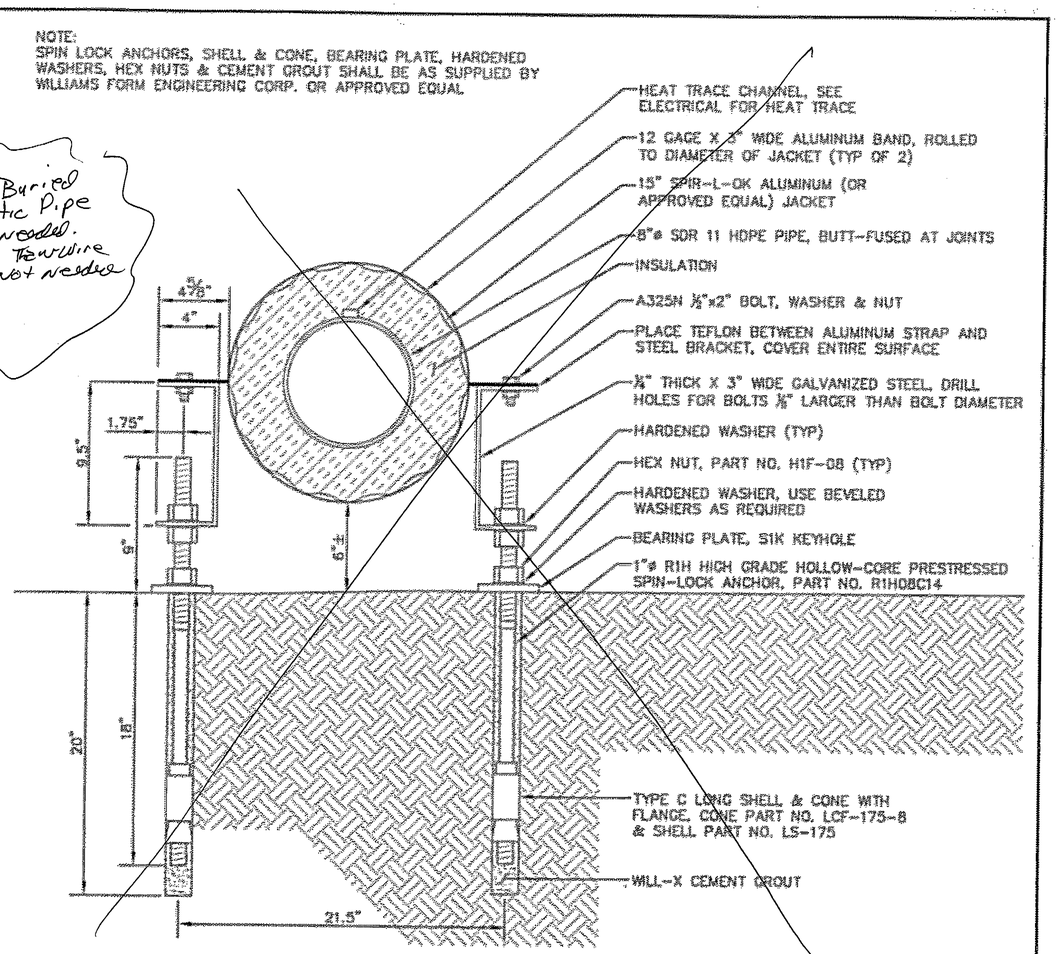
V/B 2/07



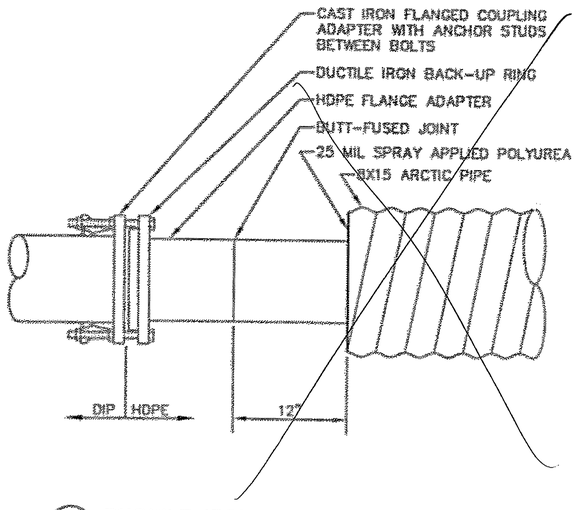
1 W1 **8-INCH WATER MAIN & ARCTIC PIPE SECTION**
AS SHOWN

Pipe Buried 50 Artic Pipe Not needed. And Tracer wire Not needed

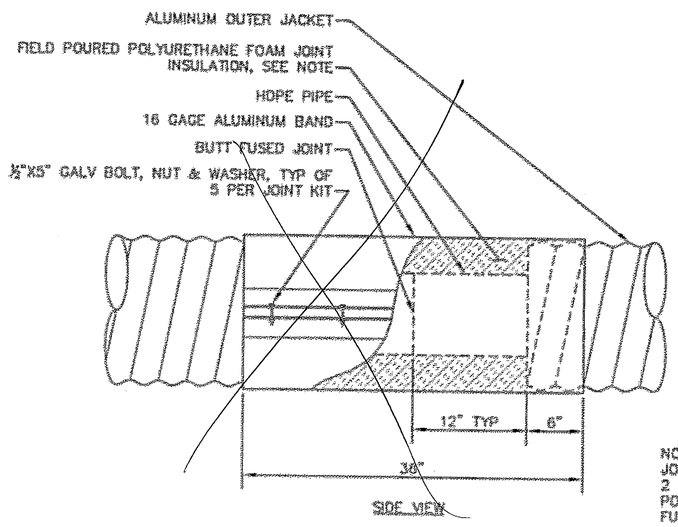
NOTE:
SPIN LOCK ANCHORS, SHELL & CONE, BEARING PLATE, HARDENED WASHERS, HEX NUTS & CEMENT GROUT SHALL BE AS SUPPLIED BY WILLIAMS FORM ENGINEERING CORP. OR APPROVED EQUAL

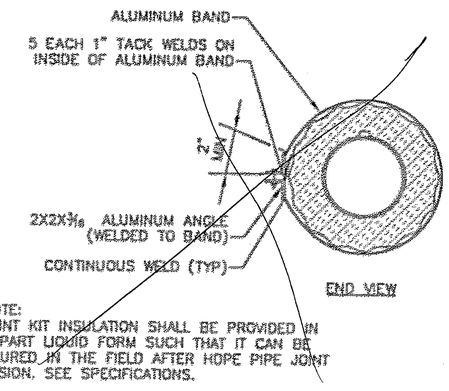


2 W2 **ARCTIC PIPE SECTION & PIPE SUPPORT DETAIL**
NTS



3 W2 **DUCTILE IRON TO HDPE TRANSITION**
NTS





NOTE:
JOINT KIT INSULATION SHALL BE PROVIDED IN 2 PART LIQUID FORM SUCH THAT IT CAN BE POURED IN THE FIELD AFTER HDPE PIPE JOINT FUSION. SEE SPECIFICATIONS.

4 W2 **INSULATED JOINT KIT DETAIL**
NTS

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CHECKED BY: PETE B.
DRAWN BY: MIKE L.
PATH: J:\jobdata\30101 Coffman Cove Ferry Terminal\DO CADD\Drawings\Wbase.dwg
PLOT:

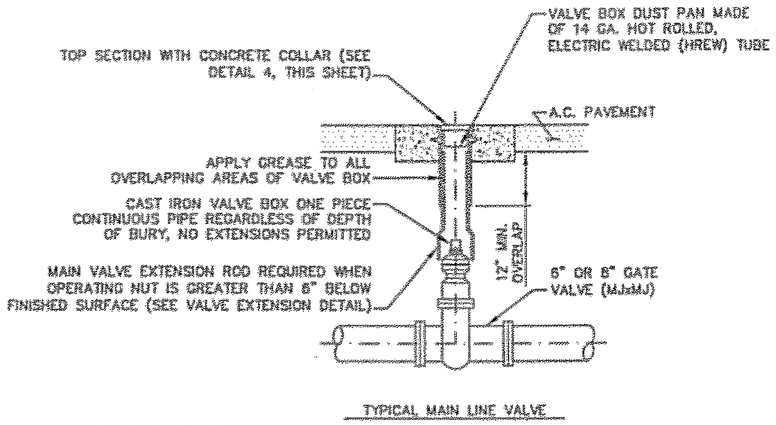
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Coffman Cove Ferry Terminal
Project 67844

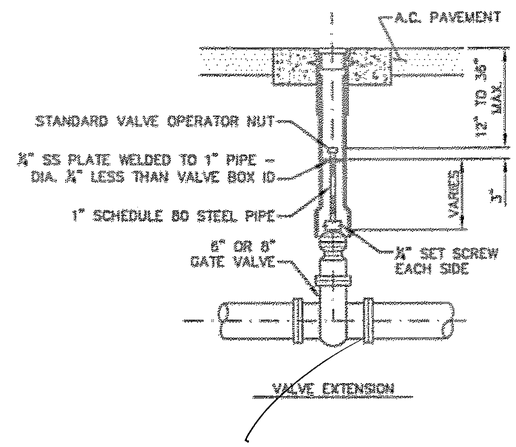
WATER MAIN DETAILS

REVISIONS NO.	DATE	DESCRIPTION	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			67844	FEB 2005	W2	13

✓ JEB 2/07



TYPICAL MAIN LINE VALVE

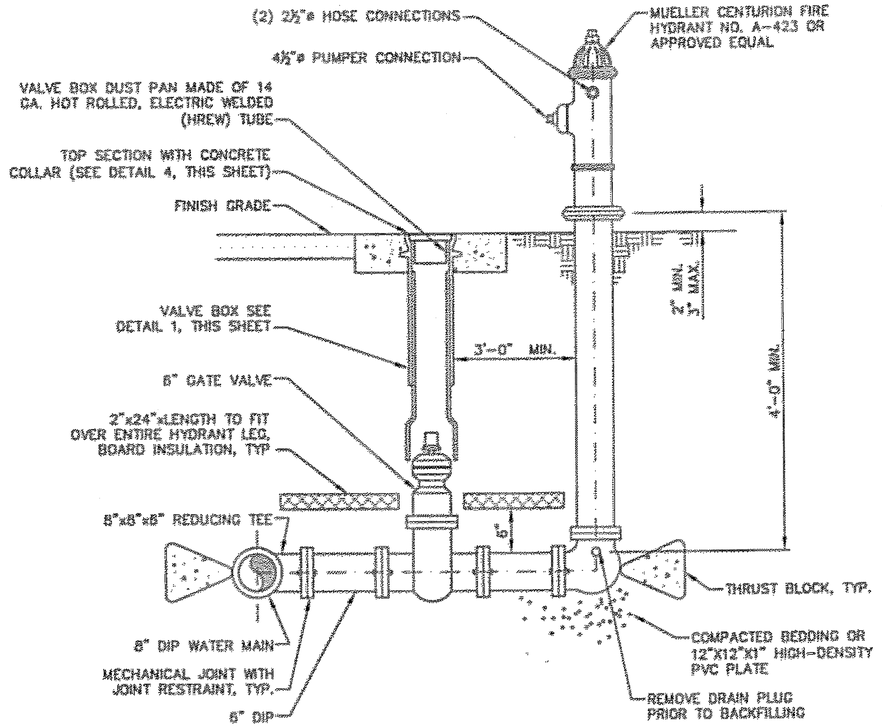


VALVE EXTENSION

VALVE BOX NOTES:

1. VALVE BOX SHALL BE OLYMPIC FOUNDRY STANDARD VALVE BOX, PART NO. VB 940 OR APPROVED EQUAL. VALVE BOX SHALL BE PERPENDICULAR TO THE WATER PIPE AND ALIGNED WITH VALVE AXIS.
2. WRAP 6 MIL. PVC SHEETING AROUND VALVE BOX BASE AFTER ASSEMBLY AND BEFORE BACKFILLING.

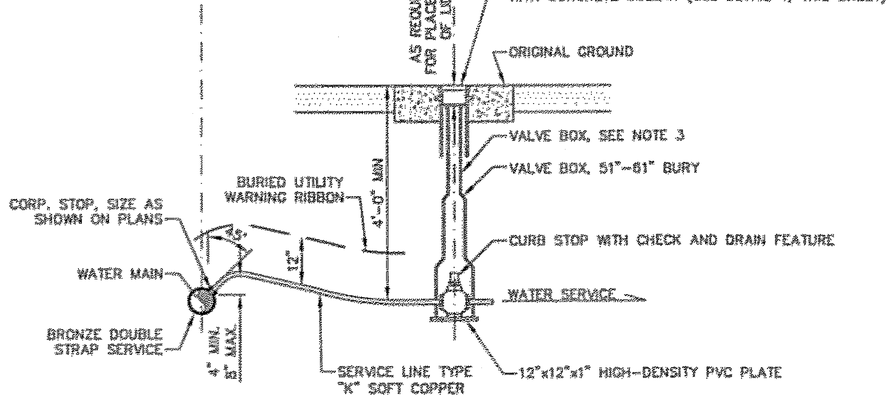
1 VALVE BOX DETAILS
NOT TO SCALE



FIRE HYDRANT NOTES:

1. HYDRANT BARREL SHALL BE PLUMB.
2. VALVE BOX SHALL BE SITUATED OUTSIDE OF ANY DITCH SECTION OR IN ACCESS PAD (SEE DETAIL 1, THIS SHEET).
3. NO BENDS SHALL EXCEED 11 1/4" BETWEEN THE HYDRANT AND THE MAIN.
4. ALL HYDRANTS SHALL BE PAINTED VISIBLE YELLOW.

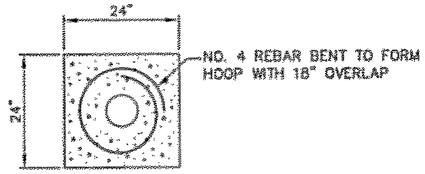
2 FIRE HYDRANT ASSEMBLY
NOT TO SCALE



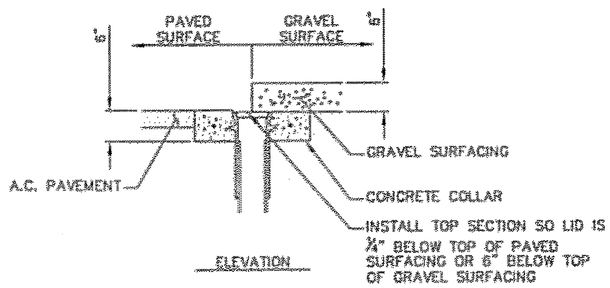
WATER SERVICE NOTES:

1. COPPER TUBE CONNECTIONS SHALL BE FLARED UNIONS.
2. 4"x24"xLENGTH TO FIT OF RIGID BOARD INSULATION SHALL BE REQUIRED OVER SERVICES IF THERE IS LESS THAN 4 FEET OF COVER.
3. WRAP 6 MIL PVC SHEETING AROUND VALVE BOX BASE AFTER ASSEMBLY AND BEFORE BACKFILLING.

3 WATER SERVICE CONNECTION
NOT TO SCALE



TOP VIEW



ELEVATION

4 TOP SECTION INSTALLATION
W3 NOT TO SCALE

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DRAWN BY: JUSTIN K.
CHECKED BY: PETE B.

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DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
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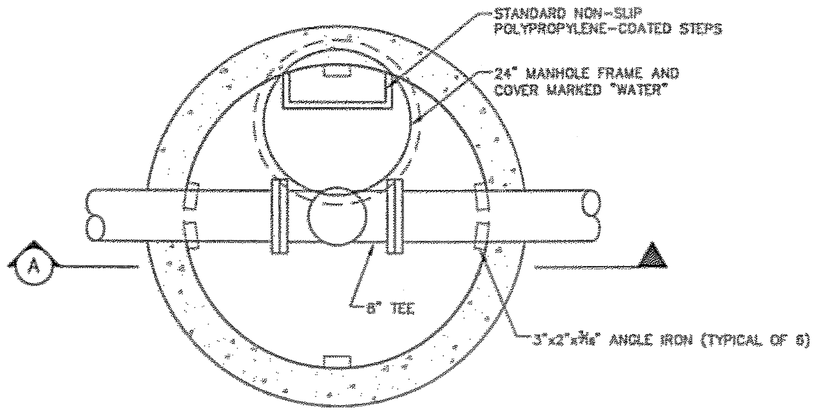
Coffman Cove Ferry Terminal
Project 67844

WATER SYSTEM DETAILS

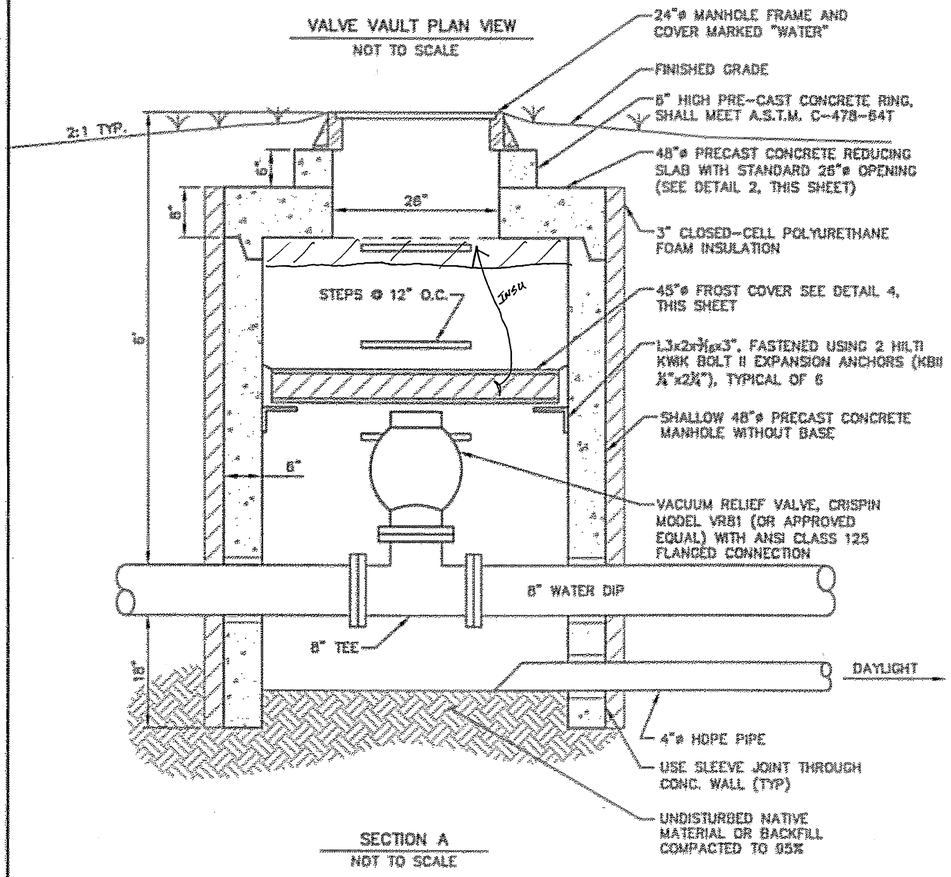
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PLOT:

REVISIONS NO.	DATE	DESCRIPTION	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			67844	FEB 2005	W3	13

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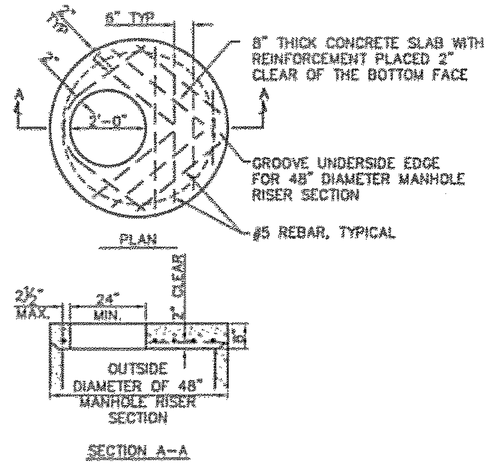


VALVE VAULT PLAN VIEW
NOT TO SCALE

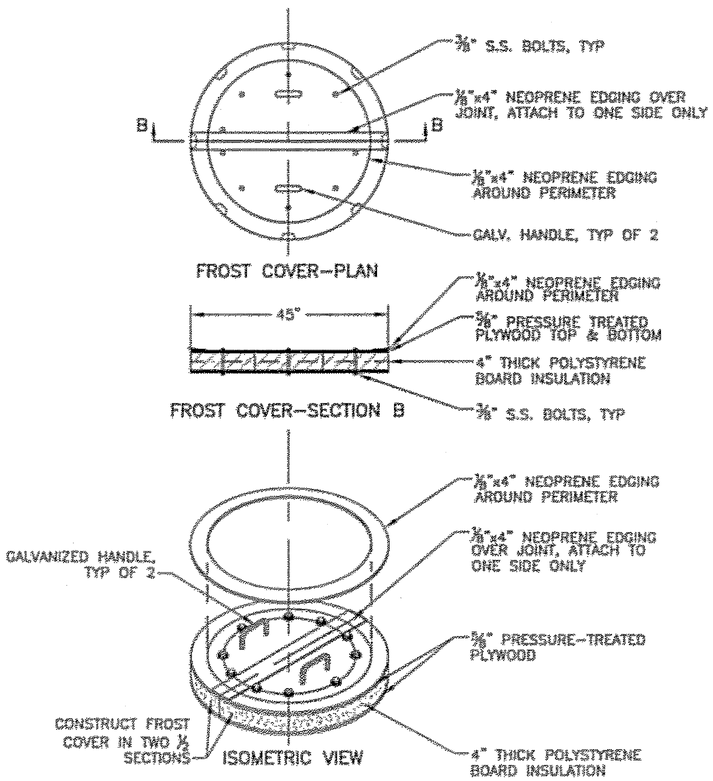


SECTION A
NOT TO SCALE

1 / W1 **VACUUM VALVE VAULT**
NOT TO SCALE



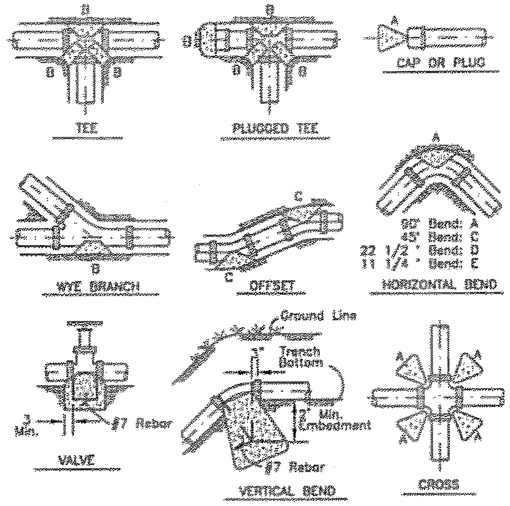
2 / W4 **PRE-CAST REDUCING SLAB (48"-24")**
NOT TO SCALE



FROST COVER NOTES:

1. PERMANENTLY SECURE POLYSTYRENE INSULATION TO PLYWOOD PRIOR TO FINAL ASSEMBLY WITH APPROVED ADHESIVE.
2. COAT TOP OF FROST COVER AND INSPECTION PORT COVER WITH FIBERGLASS RESIN.

4 / W4 **FROST COVER DETAILS**
NOT TO SCALE



THRUST BLOCK TABLE					
PIPE DIA.	MIN. BEARING AREA AGAINST UNDISTURBED SOIL (Sq. FT.)				
	A	B	C	D	E
2-inch	1	1	1	1	1
3-inch	2	1.5	1.5	1.5	1.5
4-inch	2.5	2	1.5	1.5	1.5
6-inch	4	3	2	2	2
8-inch	7	5	4	3	3
10-inch	11	9	6	5	5

THRUST BLOCK NOTES:

1. SQUARE FEET OF CONCRETE THRUST AREA BASED ON 200 PSI INTERNAL PRESSURE, SAFE SOIL BEARING OF 3,000 PSF AND A SAFETY FACTOR OF 1.5.
2. BEARING AREA MAY VARY IN SIZE TO SUIT DIFFERENT SOIL BEARING VALUES, INTERNAL PRESSURES, AND SITE CONDITIONS SUBJECT TO ENGINEER APPROVAL.
3. CONCRETE BLOCKING SHALL BE CAST-IN-PLACE, AND HAVE A MINIMUM OF 1/4 SF BEARING AGAINST THE FITTINGS.
4. BLOCKING SHALL BE PLACED CLEAR OF ALL JOINTS TO PERMIT DEMANTLING OF THE JOINTS.
5. ALL EXPOSED REBAR SHALL BE HOT-DIPPED GALVANIZED.
6. 6 MIL. POLYETHYLENE SHALL BE PLACED BETWEEN CONCRETE AND PIPE.
7. ANCHORS FOR VERTICAL BENDS SHALL BE DESIGNED SO THAT CONCRETE MASS PROVIDES A SAFETY FACTOR OF 1.5.
8. CONCRETE SHALL BE RATED AT 2,500 PSI AT 28 DAYS.
9. MEG-A-LUG FITTINGS MAY BE USED AS A SUBSTITUTE FOR CAST-IN-PLACE CONCRETE THRUST BLOCKS.

3 / – **THRUST BLOCK DETAILS**
NOT TO SCALE

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CHECKED BY: PETE B.
DRAWN BY: JUSTIN K.

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
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Coffman Cove Ferry Terminal
Project 67844

WATER SYSTEM DETAILS

PATH: J:\Jobsdata\30101 Coffman Cove Ferry Terminal\00 CADD\Drawings\30101-W4.dwg
PLOT:

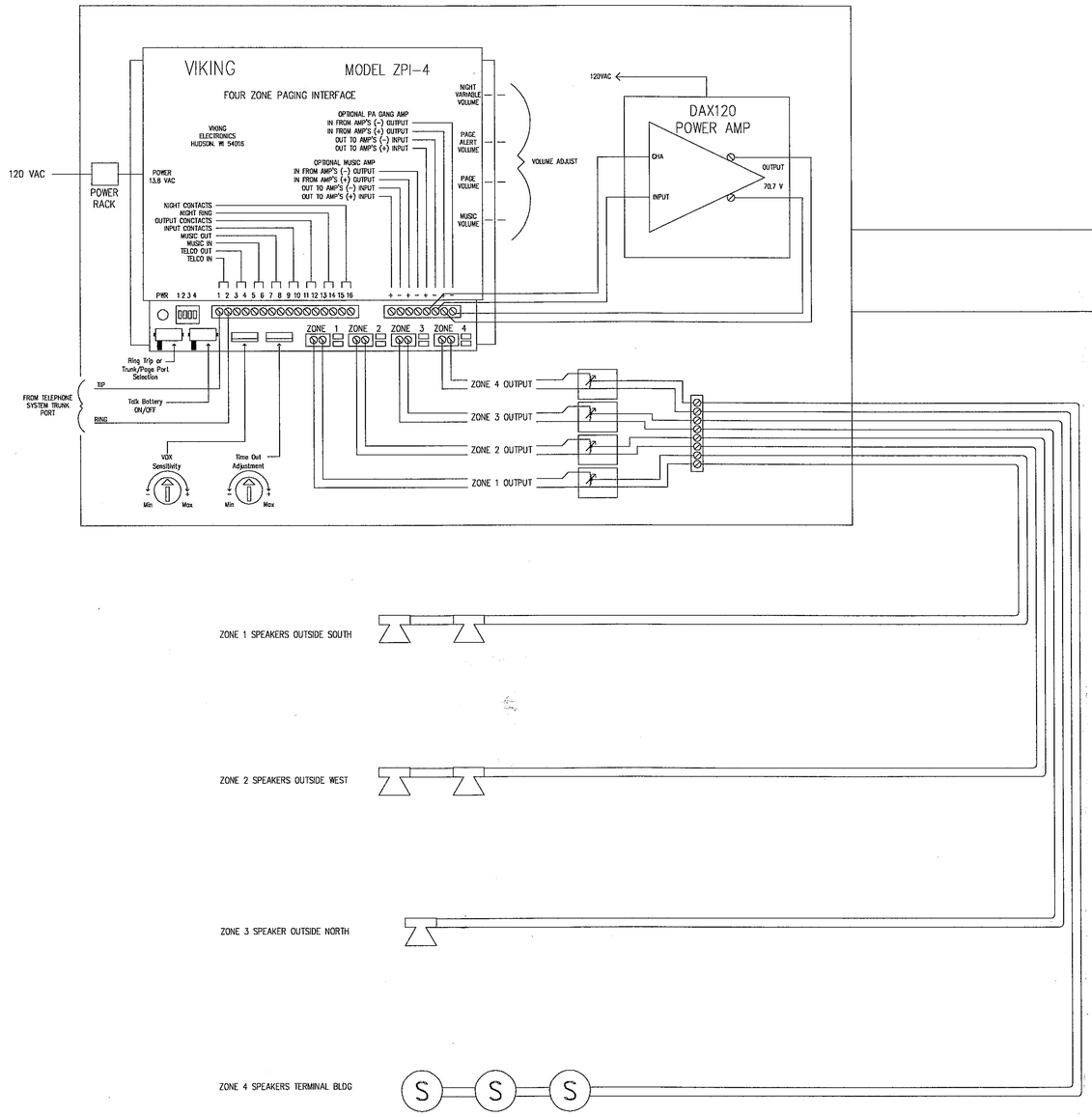
REVISIONS			PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
NO.	DATE	DESCRIPTION	67844	FEB 2005	W4	13

JMB 2/07

AS-BUILTS

PAGING EQUIPMENT CABINET

PAHE

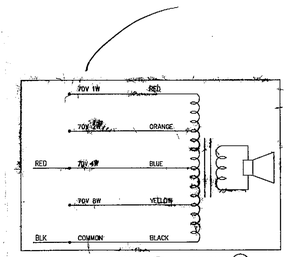


SOUND SYSTEM LEGEND

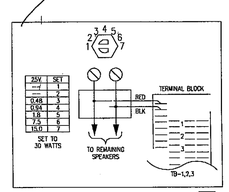
SYMBOL	MANUFAC.	DESCRIPTION	P/N	BACK BOX
	RAU	SPEAKER 30 WATT FLARED HORN	3603 W/	N.A.
	RAU	ARMORED CABLE ADAPTOR	A30AC	N.A.
S	RAU	SPEAKER ASSEMBLY WALL MOUNT	ACCWB10V	4-SQ W/1-GA MUDRING
M	SHU	MICROPHONE - DESKTOP	1295	4 SQ W/1-GA MUDRING
PAHE	LOW	SURFACE MOUNT WALL ENCLOSURE W/	L253-12	INCLUDED
	VIK	4 ZONE PAGING ADAPTOR	ZPI-4	N/A
	RAU	120 WATT PAGING AMPLIFIER	DAX120	N/A

WIRE/CABLE SCHEDULE

SOR TYPE	WEST PENN	DESCRIPTION	LINETYPE
SPEAKER	25225B	16 AWG WIRE 1 PAIR	
MICROPHONE	25510B	22AWG, 2 PAIR, 1 SHIELDED	



RAULAND SPEAKER ASSEMBLY -ACCWB10V (S)



RAU - 30 WATT MULT-TAP HORN - 3603

2/07

SimplexGrinnell
2275 BRANDY LANE SUITE #1
JUNEAU, ALASKA 99801
(907) 789-4449 FAX (907) 789-4110
Tyco Fire & Security / SimplexGrinnell
NATIONAL INSTITUTE FOR CERTIFICATION IN ENGINEERING TECHNOLOGIES CERTIFIED TECHNICIANS NICET

CONTRACTOR/INSTALLER
SOUND ELECTRIC
FREELAND, WASHINGTON

REVISION DESCRIPTION	APPR.

COFFMAN COVE PA SYSTEM
COFFMAN COVE, ALASKA

PROJECT NAME:
AREA:
SYSTEM:

SOUND SYSTEM DEVICE LAYOUT & DEVICE DETAILS

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D.P.S.:	D-8
DRAWN BY:	PAH
APPROVED BY:	
DATE CREATED:	5-1-06
REVISED DATE:	
SCALE:	1/8"=1'-0"
JOB NUMBER:	90282820I
CAD FILENAME:	04-161-02

CATEGORY:	OFFICE:	YEAR:
SO	449	2004

SHEET NUMBER: E1

AS-BUILT PLANS
*(ALSO see File C-2 Electrical (Project Files)

DESIGNED BY

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES
SOUTHEAST REGION

FOR THE

City of Coffman Cove

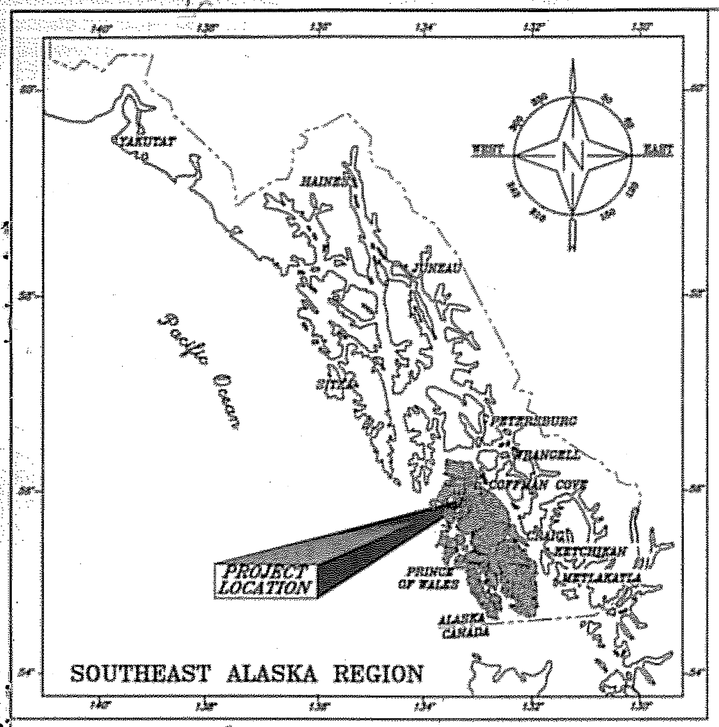
A PROJECT AT

COFFMAN COVE, ALASKA

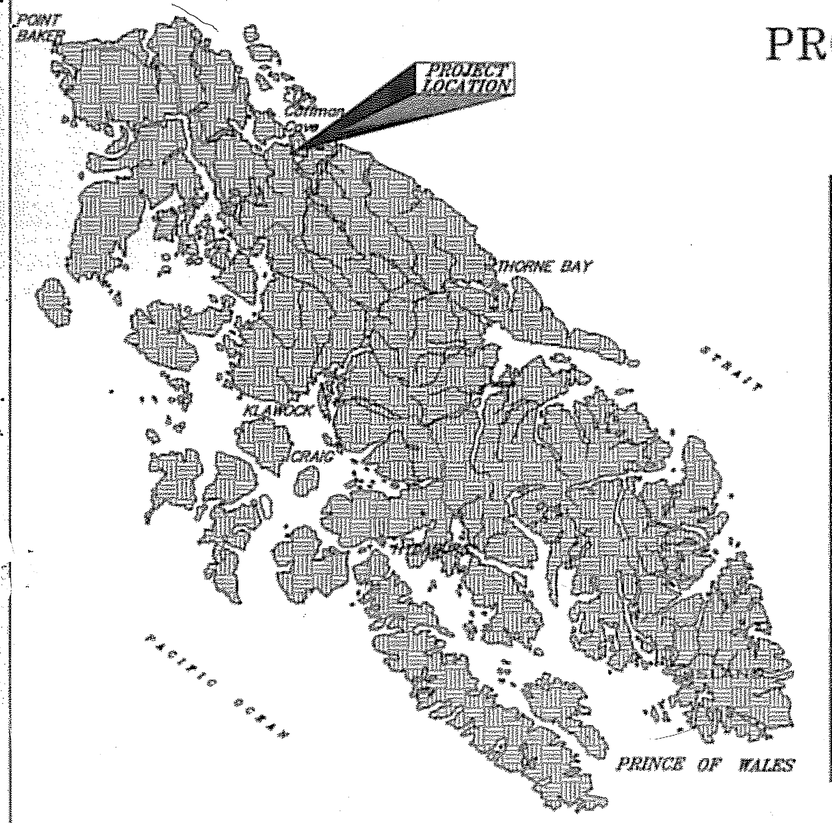
Planset E

FERRY TERMINAL ELECTRICAL

PROJECT No. 67844 ~ ~~MGS-0851(63)~~



SOUTHEAST ALASKA REGION




Proposed Terminal Site

INDEX OF SHEETS

SHEET NO.	DESCRIPTION
E0	Title Sheet
E1	Electrical Site Plan
E2	Electrical Site Plan
E3	New Panel Schedules & New Single Line
E4	New Panel Schedules & Pole Location Data
E5	Heat Trace, Lift station, and Sewer Treatment Site Plan and Section
E6	Heat Trace Controls
E7	Lift Station Single Line
E8	Lift Station Pump Controls
E9	Elevation View – H.T. Annunciator Panel and S.T.P. Alarm Panels
E10	Floor Plan – Maintenance Building
E11	Lighting Control Schematics & Luminaire Schedule
E12	Gangway Abutment and Float Expanded View
E13	Pedestrian Platform Expanded View and Gangway Section
E14	Elevation View – Gangway and Float
E15	Elevation View – Approach, Bridge, and Float
E16	Elevation View – Power Unit
E17	Elevation View – Power Unit Control Panel
E18	Hydraulic Power Unit Control Schematic
E19	Pole and Luminaire Mounting Details
E20	Telephone Riser Diagram & Light Pole, Trench, & Vault Details

ESTIMATE OF QUANTITIES

ITEM NO.	ITEM	EST. UNIT	ESTIMATE QUANTITY
~~203 (20)~~	~~Trench Blasting for Electrical Utilities~~ DEL 20.1	~~LF~~	~~1650~~
~~203 (21)~~	~~Blasting for Utility & Light Pole Installation~~ DEL 20.1	~~Ea~~	~~15~~
~~662 (1)~~	Electrical Power & Lighting (Marine)	~~LS~~	All Req'd.
~~662 (2)~~	Electrical Power & Lighting (Uplands)	~~LS~~	All Req'd.
203 (22)	Uncl EXC/ EARTHWORK / DRAINAGE MODS - CO NO.1	LS	All Req'd.

NOTE:
1. ELECTRICAL FOR INTERIOR OF PASSENGER TERMINAL BUILDING IS NOT INCLUDED IN THESE DRAWINGS. REFERENCE PASSENGER TERMINAL BUILDING DRAWINGS, PLANSET F.

AS-BUILTS

CONTRACTOR - SE ROADBUILDERS
P.E. - GREG BROWNING
BEGIN - 06/05
END - 08/06

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND
PUBLIC FACILITIES
SOUTHEAST REGION

APPROVED Jacob Buckle Date 3/16/05
Regional Preconstruction Engineer
Patrick J. Kemp

For APPROVED Gary L. Paxton Date 3/16/05
Director, S.E. Region
Gary L. Paxton

PROJECT NUMBER:
67844
DATE:
FEBRUARY, 2005
SHEET E0 OF 20

STATE OF ALASKA 49TH
Mark Q. Morris
No. EE 9823
Expires 6/30/06

V/M 2/07

E
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NOTES (APPLICABLE TO SHEETS E1, & E2):

(9) COORDINATE WITH THE LOCAL POWER UTILITY APT TO PROVIDE NEW POWER AND TELEPHONE SERVICE TO THE MAINTENANCE BLDG. THIS WORK INCLUDES A NEW OVERHEAD POWER AND TELEPHONE LINE TO THE SITE, THEN UNDERGROUND TO THE MAINTENANCE BLDG AND TO THE FUTURE SEA PLANE FLOAT.

PROVIDE ALL CONDUIT AND VAULTS AS SHOWN. THE UTILITY WILL PROVIDE A TRANSFORMER WITH A MANHOLE, A NID (NETWORK INTERFACE DEVICE), CABLES, CONDUCTORS AND CT'S. PROVIDE BLASTING IF REQUIRED AND INSTALL THE UTILITIES' MANHOLE WHERE SHOWN PER THE VAULT DETAIL, SHEET E20. ROUTE CONDUIT INTO MANHOLE AS SHOWN. PROVIDE A CT MOUNTING BASE W/ENCLOSURE ON MAINTENANCE BLDG WALL AS SHOWN.

COORDINATE W/APT TO ALLOW THEM TO INSTALL THEIR TRANSFORMER, CTS, NID, CONDUCTORS & CABLES. APT'S CHARGES WILL BE PAID FOR BY OTHERS.

PROVIDE CONDUIT & VAULTS BETWEEN LAST UTILITY POLE AND SEAPLANE SITE FOR FUTURE POWER AND TELEPHONE SERVICE TO THE SEAPLANE FLOAT. CABLES AND CONDUCTORS WILL BE INSTALLED BY UTILITY AT A FUTURE DATE. PROVIDE PULL-ROPE IN EMPTY CONDUIT.

(1) PRE-BLAST PILOT HOLES FOR THE FOUR NEW UTILITY POLES. SEE THIS SHEET AND SHEET E2. COORDINATE POLE LOCATIONS AND ELECTRICAL WORK WITH APT. BLASTING FOR THE NEW UTILITY POLES IS INCLUDED IN THIS CONTRACT. UTILITY POLES TO BE PROVIDED AND INSTALLED BY APT. UTILITY CHARGES TO BE PAID BY OTHERS.

NOTES (CONTINUED):

2. ALL MOUNTING HARDWARE, FASTENERS, ETC. SHALL BE STAINLESS STEEL OR HOT DIPPED GALVANIZED. ALL EXPOSED CONDUIT SHALL BE GALVANIZED RIGID STEEL. ALL CONDUCTORS SHALL BE COPPER WITH XHHW INSULATION UNLESS OTHERWISE NOTED.

(3) ROUTE ELECTRICAL CONDUIT IN SEWER TRENCH WHERE PRACTICAL. SEE UPLAND WATER AND SEWER UTILITY DRAWINGS, PLANSET D.

(4) COORDINATE WITH APT TO PROVIDE A NEW 250W, HPS, TYPE III DISTRIBUTION LUMINAIRE ON THE UTILITY POLE AS HIGH AS POSSIBLE. UTILITY CHARGES TO BE PAID BY OTHERS.

(5) PROVIDE NEW TYPE 1A HANDHOLE NEXT TO EACH NEW LIGHT POLE. HANDHOLE PER NEW PARKING LOT LIGHT POLE MOUNTING DETAIL, SHEET E20.

(6) ROUTE NEW CONDUIT FROM UTILITY POLE TO NEW VAULT. STUB GRS CONDUIT UP SIDE OF UTILITY POLE 10' AFG. EACH CONDUIT SHALL HAVE ITS OWN SET OF STANDOFFS. COVER TOP OF CONDUIT SO THAT WATER DOES NOT LEAK INTO CONDUIT (FOR CONDUIT TO SEAPLANE SITE ONLY).

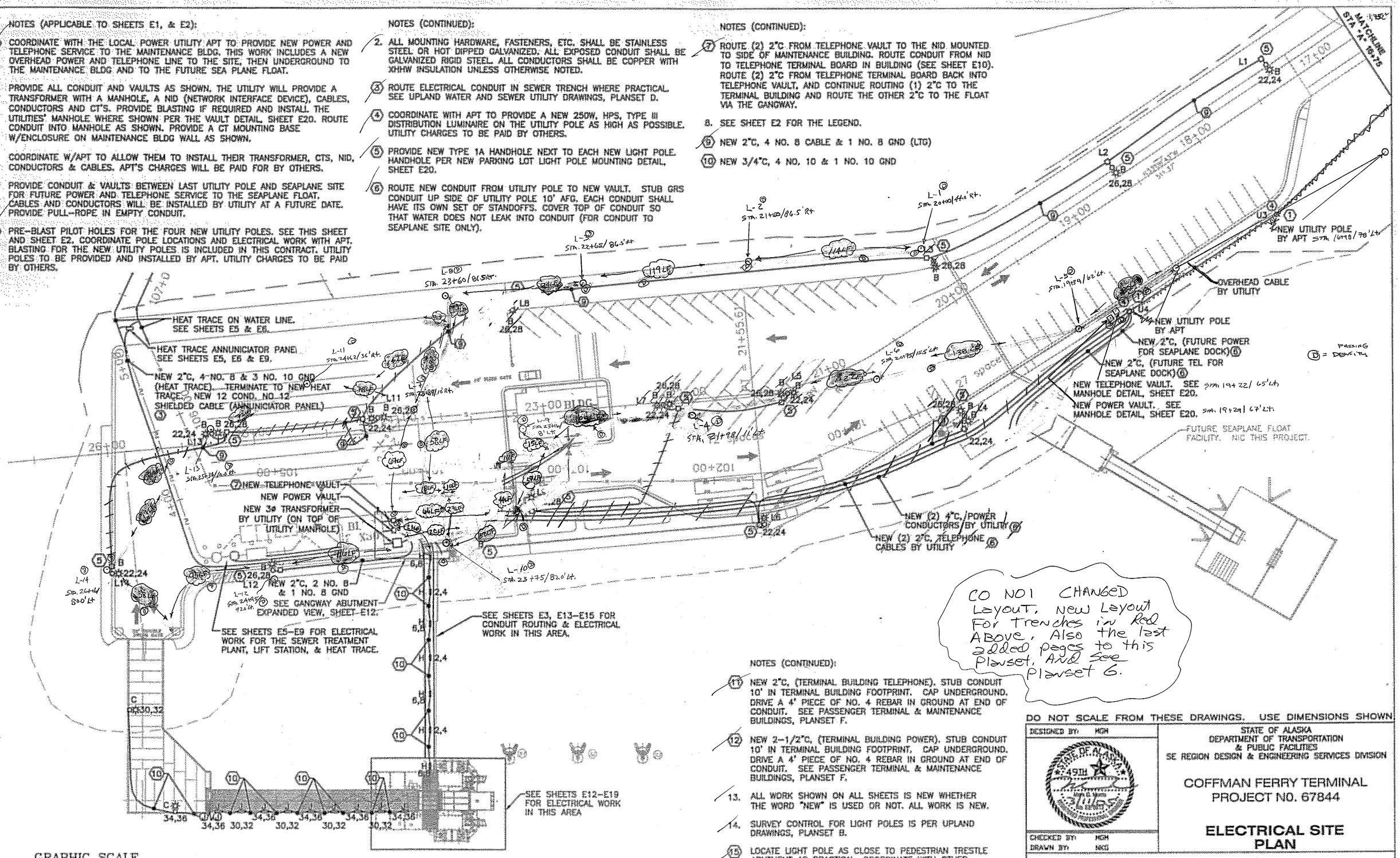
NOTES (CONTINUED):

(7) ROUTE (2) 2"C FROM TELEPHONE VAULT TO THE NID MOUNTED TO SIDE OF MAINTENANCE BUILDING. ROUTE CONDUIT FROM NID TO TELEPHONE TERMINAL BOARD IN BUILDING (SEE SHEET E10). ROUTE (2) 2"C FROM TELEPHONE TERMINAL BOARD BACK INTO TELEPHONE VAULT, AND CONTINUE ROUTING (1) 2"C TO THE TERMINAL BUILDING AND ROUTE THE OTHER 2"C TO THE FLOAT VIA THE GANGWAY.

8. SEE SHEET E2 FOR THE LEGEND.

(9) NEW 2"C, 4 NO. 8 CABLE & 1 NO. 8 GND (LTG)

(10) NEW 3/4"C, 4 NO. 10 & 1 NO. 10 GND



NOTES (CONTINUED):

(11) NEW 2"C, (TERMINAL BUILDING TELEPHONE). STUB CONDUIT 10' IN TERMINAL BUILDING FOOTPRINT. CAP UNDERGROUND. DRIVE A 4' PIECE OF NO. 4 REBAR IN GROUND AT END OF CONDUIT. SEE PASSENGER TERMINAL & MAINTENANCE BUILDINGS, PLANSET F.

(12) NEW 2-1/2"C, (TERMINAL BUILDING POWER). STUB CONDUIT 10' IN TERMINAL BUILDING FOOTPRINT. CAP UNDERGROUND. DRIVE A 4' PIECE OF NO. 4 REBAR IN GROUND AT END OF CONDUIT. SEE PASSENGER TERMINAL & MAINTENANCE BUILDINGS, PLANSET F.

13. ALL WORK SHOWN ON ALL SHEETS IS NEW WHETHER THE WORD "NEW" IS USED OR NOT. ALL WORK IS NEW.

14. SURVEY CONTROL FOR LIGHT POLES IS PER UPLAND DRAWINGS, PLANSET B.

(15) LOCATE LIGHT POLE AS CLOSE TO PEDESTRIAN TRESTLE ABUTMENT AS PRACTICAL. COORDINATE WITH OTHER DISCIPLINES TO AVOID OTHER STRUCTURES INCLUDING WATER PIPE STANTION.

16. SEE SHEET E4 FOR UTILITY POLE AND LIGHT POLE STATION LOCATIONS.

CO NO1 CHANGED Layout, New Layout For Trenches in Red ABOVE, Also the last added pages to this Planset, And See Planset 6.

DO NOT SCALE FROM THESE DRAWINGS. USE DIMENSIONS SHOWN

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CHECKED BY: MGM
DRAWN BY: NKS

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

COFFMAN FERRY TERMINAL
PROJECT NO. 67844

ELECTRICAL SITE PLAN

REVISIONS NO.	DATE	DESCRIPTION	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			67844	2005	E1	20

✓ MM 2/07

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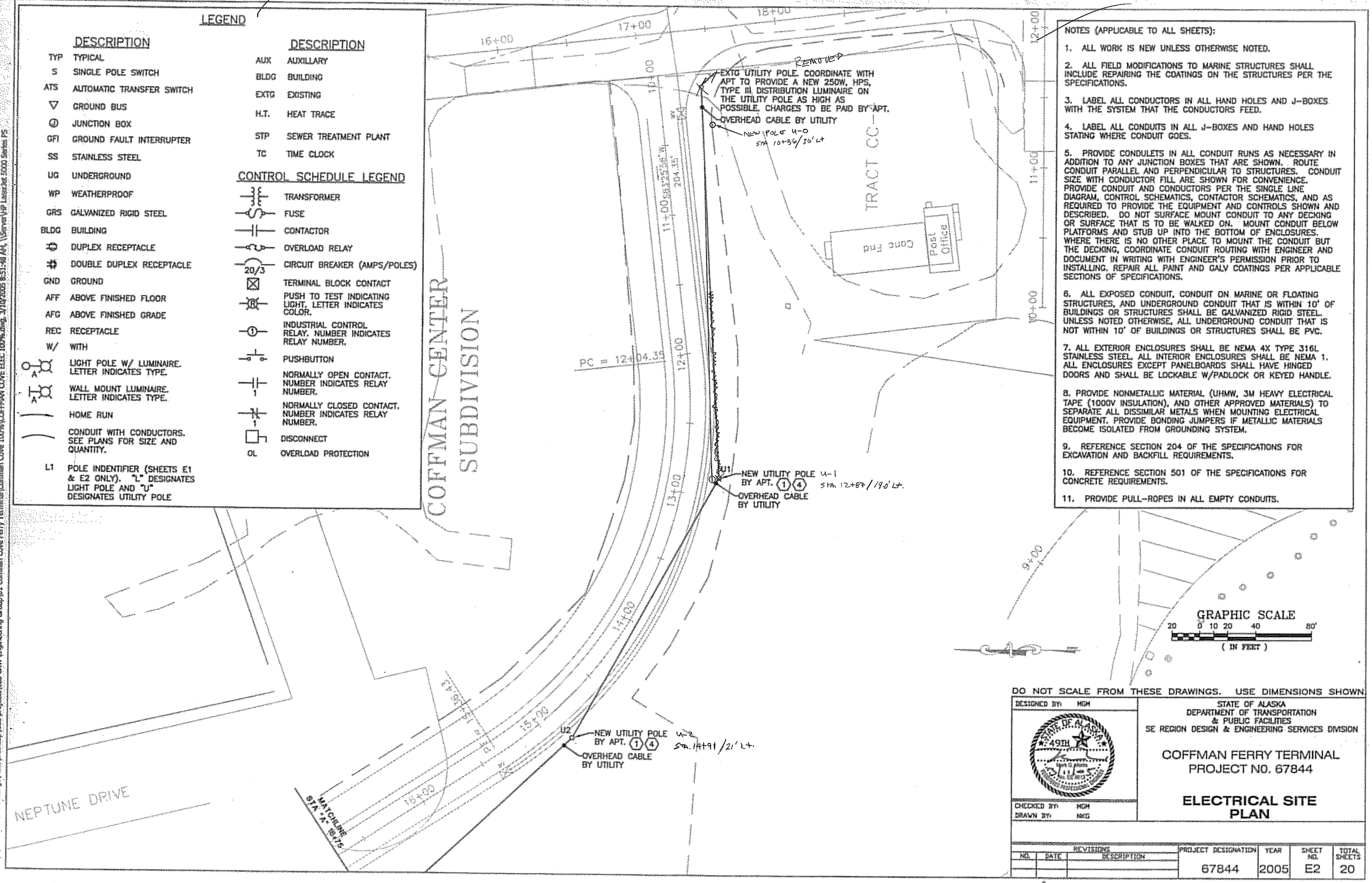
LEGEND

	DESCRIPTION
TYP	TYPICAL
S	SINGLE POLE SWITCH
ATS	AUTOMATIC TRANSFER SWITCH
▽	GROUND BUS
ⓙ	JUNCTION BOX
GFI	GROUND FAULT INTERRUPTER
SS	STAINLESS STEEL
UG	UNDERGROUND
WP	WEATHERPROOF
GRS	GALVANIZED RIGID STEEL
BLDG	BUILDING
⇔	DUPLEX RECEPTACLE
⇔	DOUBLE DUPLEX RECEPTACLE
GND	GROUND
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
REC	RECEPTACLE
W/	WITH
A	LIGHT POLE W/ LUMINAIRE. LETTER INDICATES TYPE.
A	WALL MOUNT LUMINAIRE. LETTER INDICATES TYPE.
	HOME RUN
	CONDUIT WITH CONDUCTORS. SEE PLANS FOR SIZE AND QUANTITY.
L1	POLE INDENTIFIER (SHEETS E1 & E2 ONLY). "L" DESIGNATES LIGHT POLE AND "U" DESIGNATES UTILITY POLE

	DESCRIPTION
AUX	AUXILLARY
BLDG	BUILDING
EXTG	EXISTING
H.T.	HEAT TRACE
STP	SEWER TREATMENT PLANT
TC	TIME CLOCK

CONTROL SCHEDULE LEGEND

	TRANSFORMER
	FUSE
	CONTACTOR
	OVERLOAD RELAY
20/3	CIRCUIT BREAKER (AMPS/POLES)
⊠	TERMINAL BLOCK CONTACT
	PUSH TO TEST INDICATING LIGHT. LETTER INDICATES COLOR.
①	INDUSTRIAL CONTROL RELAY. NUMBER INDICATES RELAY NUMBER.
	PUSHBUTTON
1	NORMALLY OPEN CONTACT. NUMBER INDICATES RELAY NUMBER.
1	NORMALLY CLOSED CONTACT. NUMBER INDICATES RELAY NUMBER.
	DISCONNECT
OL	OVERLOAD PROTECTION



NOTES (APPLICABLE TO ALL SHEETS):

1. ALL WORK IS NEW UNLESS OTHERWISE NOTED.
2. ALL FIELD MODIFICATIONS TO MARINE STRUCTURES SHALL INCLUDE REPAIRING THE COATINGS ON THE STRUCTURES PER THE SPECIFICATIONS.
3. LABEL ALL CONDUCTORS IN ALL HAND HOLES AND J-BOXES WITH THE SYSTEM THAT THE CONDUCTORS FEED.
4. LABEL ALL CONDUITS IN ALL J-BOXES AND HAND HOLES STATING WHERE CONDUIT GOES.
5. PROVIDE CONDULETS IN ALL CONDUIT RUNS AS NECESSARY IN ADDITION TO ANY JUNCTION BOXES THAT ARE SHOWN. ROUTE CONDUIT PARALLEL AND PERPENDICULAR TO STRUCTURES. CONDUIT SIZE WITH CONDUCTOR FILL ARE SHOWN FOR CONVENIENCE. PROVIDE CONDUIT AND CONDUCTORS PER THE SINGLE LINE DIAGRAM, CONTROL SCHEMATICS, CONTACTOR SCHEMATICS, AND AS REQUIRED TO PROVIDE THE EQUIPMENT AND CONTROLS SHOWN AND DESCRIBED. DO NOT SURFACE MOUNT CONDUIT TO ANY DECKING OR SURFACE THAT IS TO BE WALKED ON. MOUNT CONDUIT BELOW PLATFORMS AND STUB UP INTO THE BOTTOM OF ENCLOSURES. WHERE THERE IS NO OTHER PLACE TO MOUNT THE CONDUIT BUT THE DECKING, COORDINATE CONDUIT ROUTING WITH ENGINEER AND DOCUMENT IN WRITING WITH ENGINEER'S PERMISSION PRIOR TO INSTALLING. REPAIR ALL PAINT AND GALV COATINGS PER APPLICABLE SECTIONS OF SPECIFICATIONS.
6. ALL EXPOSED CONDUIT, CONDUIT ON MARINE OR FLOATING STRUCTURES, AND UNDERGROUND CONDUIT THAT IS WITHIN 10' OF BUILDINGS OR STRUCTURES SHALL BE GALVANIZED RIGID STEEL. UNLESS NOTED OTHERWISE, ALL UNDERGROUND CONDUIT THAT IS NOT WITHIN 10' OF BUILDINGS OR STRUCTURES SHALL BE PVC.
7. ALL EXTERIOR ENCLOSURES SHALL BE NEMA 4X TYPE 316L STAINLESS STEEL. ALL INTERIOR ENCLOSURES SHALL BE NEMA 1. ALL ENCLOSURES EXCEPT PANELBOARDS SHALL HAVE HINGED DOORS AND SHALL BE LOCKABLE W/PADLOCK OR KEYED HANDLE.
8. PROVIDE NONMETALLIC MATERIAL (UHMW, 3M HEAVY ELECTRICAL TAPE (1000V INSULATION), AND OTHER APPROVED MATERIALS) TO SEPARATE ALL DISSIMILAR METALS WHEN MOUNTING ELECTRICAL EQUIPMENT. PROVIDE BONDING JUMPERS IF METALLIC MATERIALS BECOME ISOLATED FROM GROUNDING SYSTEM.
9. REFERENCE SECTION 204 OF THE SPECIFICATIONS FOR EXCAVATION AND BACKFILL REQUIREMENTS.
10. REFERENCE SECTION 501 OF THE SPECIFICATIONS FOR CONCRETE REQUIREMENTS.
11. PROVIDE PULL-ROPES IN ALL EMPTY CONDUITS.

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CHECKED BY: HGH
DRAWN BY: MKG

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COFFMAN FERRY TERMINAL
PROJECT NO. 67844

ELECTRICAL SITE PLAN

REVISIONS NO.	DATE	DESCRIPTION	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			67844	2005	E2	20

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PANEL HMDP NEW

SIZE	VOLTS, PHASE	MOUNTING	MAIN	LOCATION
400A	277/480V, 3ø, 4W	SURFACE	MAIN ONLY	MAINT. BLDG

CKT NO.	DESCRIPTION	C/B SIZE	KVA CKT	A ø	B ø	C ø	CKT	C/B SIZE	DESCRIPTION	CKT NO.
1	POWER UNIT SHORE TIE REC	100/3	22	26			4.2	50/3	HYDRAULIC POWER UNIT	2
3	----	----	22		26		4.2	----	----	4
5	----	----	22			26	4.2	----	----	6
7	PANEL LMDP VIA TRANSFORMER	125/3	14	14			0.0	100/3	SPARE	8
9	----	----	17		17		0.0	----	----	10
11	----	----	14			14	0.0	----	----	12
13	LIFT STATION	60/3	2.5	2.5			0.0	80/3	TVSS	14
15	----	----	2.5		2.5		0.0	----	----	16
17	----	----	2.5			2.5	0.0	----	----	18
TOTAL CONNECTED LOAD = 132 KVA/160 AMPS				43	46	43				

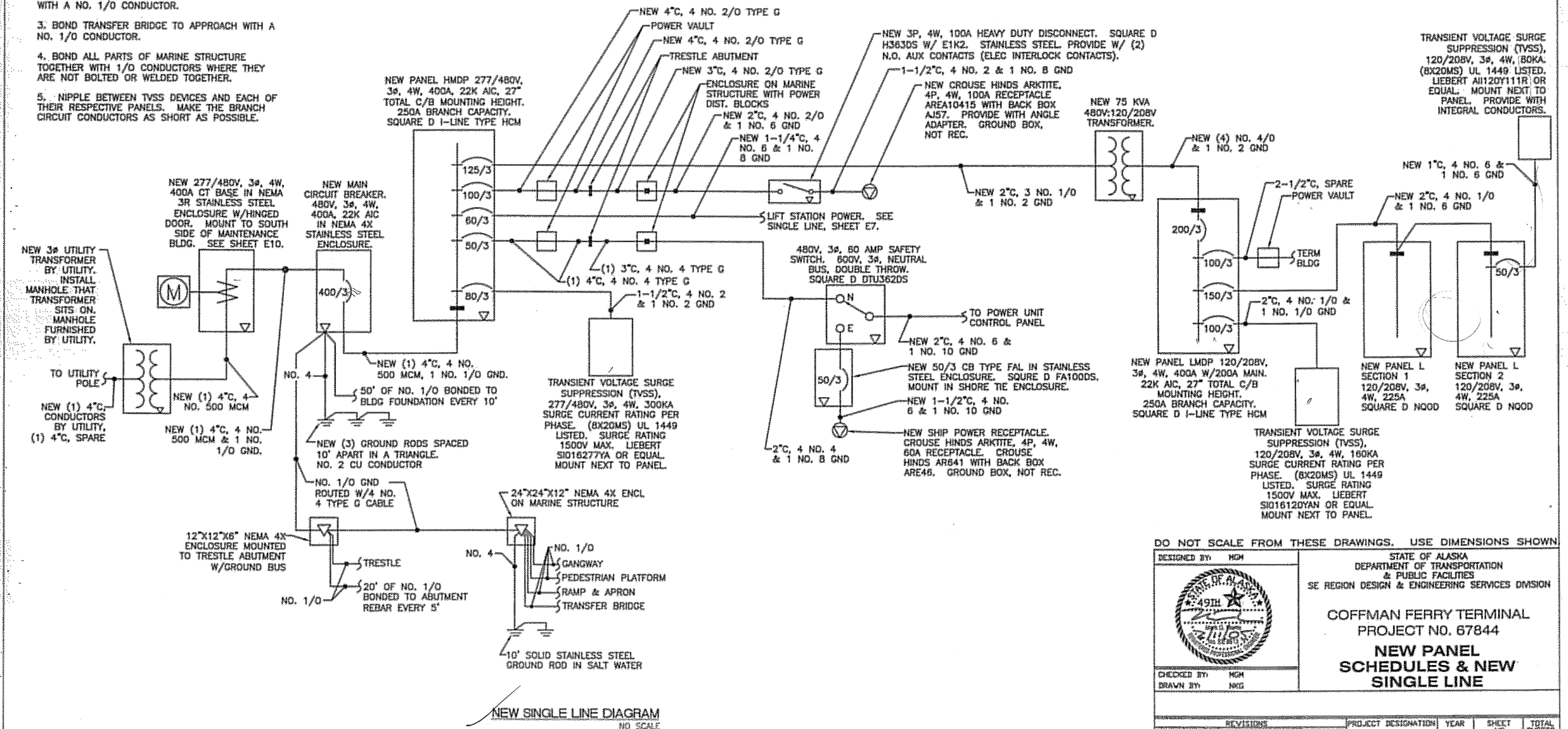
PANEL LMDP NEW

SIZE	VOLTS, PHASE	MOUNTING	MAIN	LOCATION
225A	120/208V, 3ø, 4W	SURFACE	MAIN ONLY	MAINT. BLDG

CKT NO.	DESCRIPTION	C/B SIZE	KVA CKT	A ø	B ø	C ø	CKT	C/B SIZE	DESCRIPTION	CKT NO.
1	TERMINAL BUILDING	100/3	8.5	8.5			0.0	100/3	TVSS	2
3	----	----	7.6		7.6		0.0	----	----	4
5	----	----	7.9			7.9	0.0	----	----	6
7	~~PANEL L~~ SPACE	125/3	4.9	4.9			0.0		SPACE	8
9	----	----	9.0		9.0		0.0			10
11	----	----	6.2			6.2	0.0			12
13	SPARE	100/3	0.0				0.0			14
15	----	----	0.0				0.0			16
17	----	----	0.0				0.0			18
TOTAL CONNECTED LOAD = 44.1 KVA/122 AMPS				13.4	16.6	14.1				

NOTES:

1. BOND TRESTLE TO GANGWAY WITH A NO. 1/0 CONDUCTOR.
2. BOND TRANSFER BRIDGE TO PED. PLATFORM WITH A NO. 1/0 CONDUCTOR.
3. BOND TRANSFER BRIDGE TO APPROACH WITH A NO. 1/0 CONDUCTOR.
4. BOND ALL PARTS OF MARINE STRUCTURE TOGETHER WITH 1/0 CONDUCTORS WHERE THEY ARE NOT BOLTED OR WELDED TOGETHER.
5. NIPPLE BETWEEN TVSS DEVICES AND EACH OF THEIR RESPECTIVE PANELS. MAKE THE BRANCH CIRCUIT CONDUCTORS AS SHORT AS POSSIBLE.



NEW SINGLE LINE DIAGRAM
NO SCALE

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DRAWN BY: NKG

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DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
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COFFMAN FERRY TERMINAL
PROJECT NO. 67844

NEW PANEL SCHEDULES & NEW SINGLE LINE

REVISIONS NO.	DATE	DESCRIPTION	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			67844	2005	E3	20

J Gm 2/07

PANEL L NEW	SIZE	VOLTS, PHASE	MOUNTING	MAIN	LOCATION
	225A	120/208V, 3ø, 4W	SURFACE	SUBFEED LUGS	MAINT. BLDG

CKT NO.	DESCRIPTION	C/B SIZE	KVA CKT	A#	B#	C#	CKT	C/B SIZE	DESCRIPTION	CKT NO.
1	HEAT TRACE – WATER LINE	30/2	0.4	0.6			0.2	20/2	GANGWAY LTG. – (SECURITY)	2
3	----	----	0.4		0.6		0.2	----	----	4
5	HEAT TRACE – SEWER LINE	30/2	0.4			0.6	0.2	20/2	GANGWAY LTG. – (TIME CLOCK)	6
7	----	----	0.4	0.6			0.2	----	----	8
9	MAINT. BLDG LIGHTING INTERIOR	20/1	1.0		1.0		0.0	30/2	SPARE (FUTURE MARINE HEAT TRACE)	10
11	MAINT. BLDG E WALL FRIDGE REC	20/1	0.4			0.4	0.0	----	----	12
13	MAINT. BLDG E WALL FRIDGE REC	20/1	0.4	0.4			0.0	30/2	SPARE (FUTURE MARINE HEAT TRACE)	14
15	MAINT. BLDG E WALL REC'S	20/1	0.4		0.4		0.0	----	----	16
17	MAINT. BLDG RESTROOM GFI REC	20/1	0.2			0.2	0.0	20/1	SPARE	18
19	MAINT. BLDG NORTH WALL REC'S	20/1	0.6	0.6			0.0			20
21	EAST WALL RECEPTACLE	20/1	0.4		1.9		1.5	30/2	PARKING LOT/STAGING AREA LTG (SEC.)	22
23	SOUTH WALL RECEPTACLE	20/1	0.4			1.9	1.5	----	----	24
25	FLOAT MAINTENANCE RECEPTACLE	20/1	0.2	1.8			1.6	30/2	PARKING LOT/STAGING AREA LTG (TC)	26
27	~~MAINT. BLDG HOT WATER HEATER~~ BATHROOM & ALL Heater	30/2	1.5		3.1		1.6	----	----	28
29	---WATER Heater	----	1.5			2.0	0.5	30/2	BRIDGE & APPROACH LTG (SECURITY)	30
31	MAINT. BLDG CEILING FAN	20/1	0.2	0.7			0.5	----	----	32
33	SEWER TREATMENT PLANT	20/1	0.7		1.7		1.0	30/2	BRIDGE & APPROACH LIGHTING (TC)	34
35	HEAT TRACE CONTROL PANEL	20/1	0.1			1.1	1.0	----	----	36
37	SEWER SYSTEM ALARM PANEL	20/1	0.1	0.2			0.1	20/1	MAINT. BLDG HTR MANUAL STARTER	38
39	SPARE	20/1	0.0		0.3		0.3	20/1	MAINT. BLDG LIGHTING EXTERIOR	40
41			0.0			0.0	0.0	20/1	TELEPHONE BOARD	42
TOTAL CONNECTED LOAD = 20.1 KVA/56 AMPS				4.9	9.0	6.2				

PANEL L NEW	SIZE	VOLTS, PHASE	MOUNTING	MAIN	LOCATION
	225A	120/208V, 3ø, 4W	SURFACE	MAIN ONLY	MAINT. BLDG

CKT NO.	DESCRIPTION	C/B SIZE	KVA CKT	A#	B#	C#	CKT	C/B SIZE	DESCRIPTION	CKT NO.
43	TVSS	50/3	0.0					20/1	SPARE	44
45	----	----	0.0							46
47	----	----	0.0							48
49	SPARE	20/1								50
51										52
53										54
55										56
57										58
59										60
61										62
63										64
65										66
67										68
69										70
71										72
73										74
75										76
77										78
79										80
81										82
83										84
TOTAL CONNECTED LOAD = 0 KVA/0 AMPS				0.0	0.0	0.0				

POWER POLE AND LIGHT POLE BASE LOCATION DATA

POLE #	STATION	OFFSET	REMARKS
U1	A 12+86	33' LT	UTILITY POLE
U2	A 15+00	33' LT	UTILITY POLE
L1	A 17+33	20' RT	LIGHT POLE BASE
U3	A 17+83	72' LT	UTILITY POLE
L2	A 18+61	20' RT	LIGHT POLE BASE
U4	A 19+05	72' LT	UTILITY POLE
L3	A 19+98	31' RT	LIGHT POLE BASE
L4	A 20+38	71' LT	LIGHT POLE BASE
L5	A 21+39.9	2.6' LT	LIGHT POLE BASE
L6	A 21+56	92' LT	LIGHT POLE BASE
L7	A 22+10.4	1.9' LT	LIGHT POLE BASE
L8	A 23+14.2	77' LT	LIGHT POLE BASE
L9	A 23+15	66' LT	LIGHT POLE BASE
L10	A 23+77	92' LT	LIGHT POLE BASE
L11	A 24+04	7.2' RT	LIGHT POLE BASE
L12	A 25+00	92' LT	LIGHT POLE BASE
L13	A 25+27	7.2' RT	LIGHT POLE BASE
L14	A 26+08	86.9' LT	LIGHT POLE BASE

CO NO 1 Changed Layout See Planset G ; AS-Builts (Previos Page) at End of this Planset

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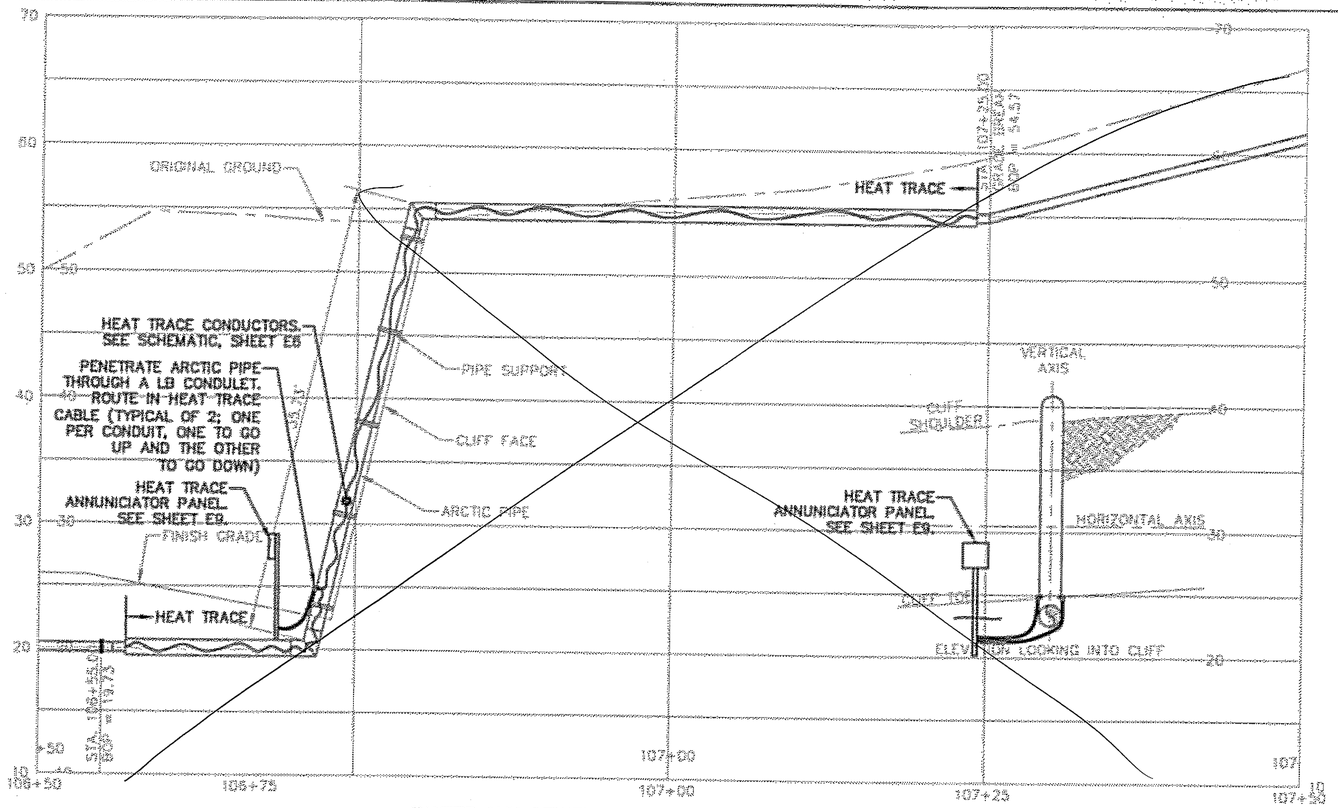
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COFFMAN FERRY TERMINAL
PROJECT NO. 67844

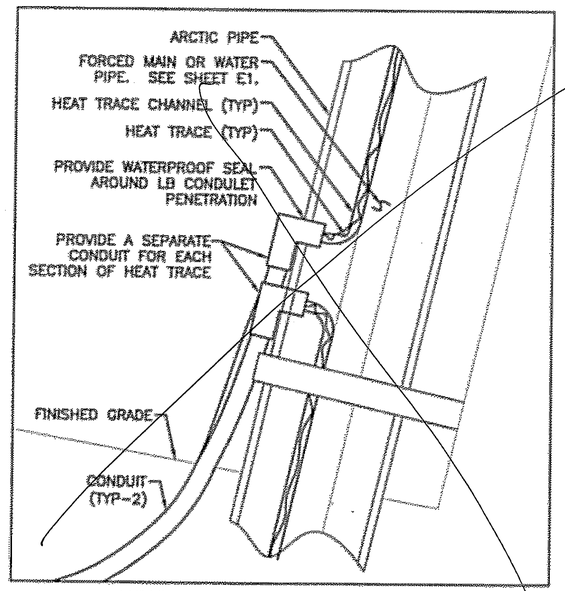
NEW PANEL SCHEDULES & POLE LOCATION DATA

REVISIONS NO.	DATE	DESCRIPTION	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			67844	2005	E4	20

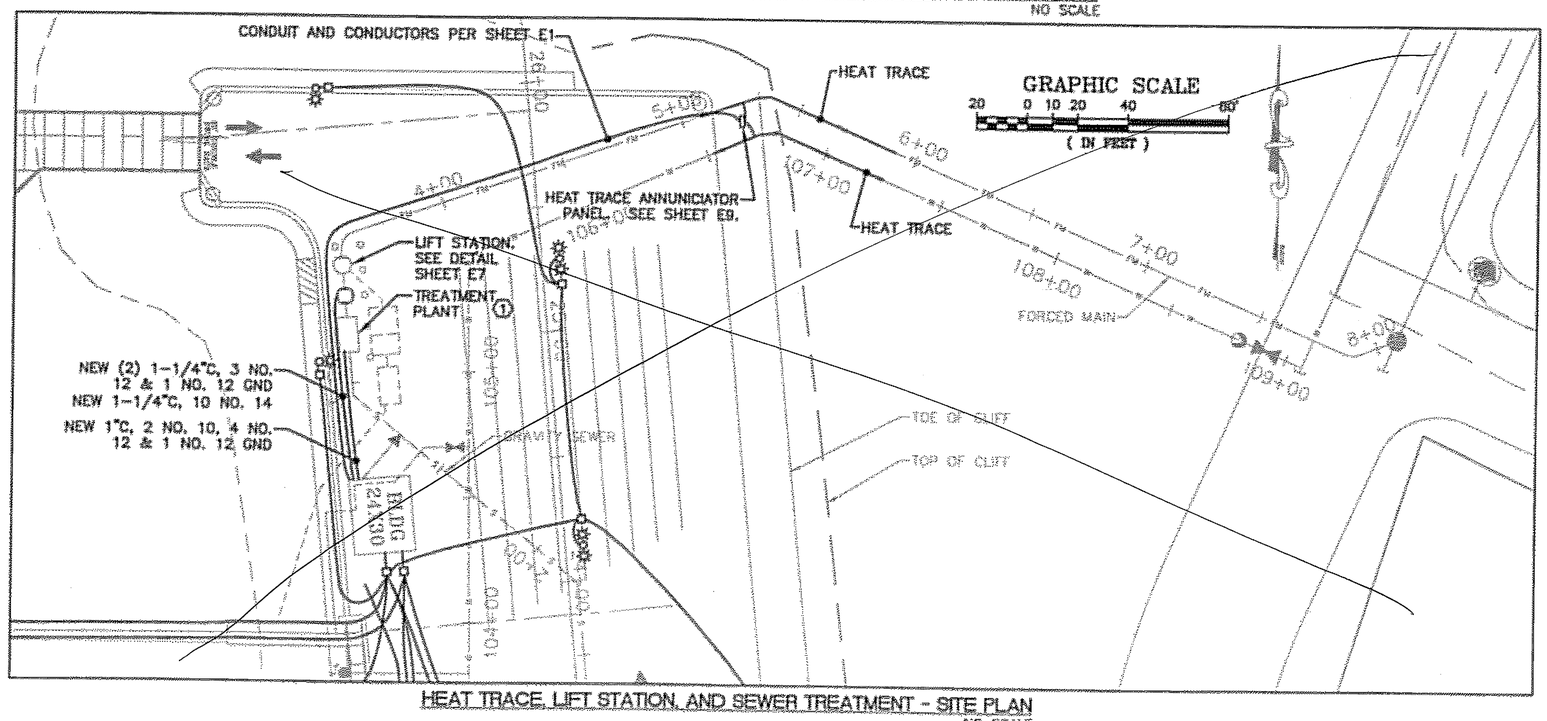
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WATER AND SEWER PIPE HEAT TRACE SECTION
NO SCALE



HEAT TRACE CONNECTION DETAIL
NO SCALE



HEAT TRACE, LIFT STATION, AND SEWER TREATMENT - SITE PLAN
NO SCALE

NOTES:

① ROUTE CONDUIT FROM MAINTENANCE BUILDING TO SEWER TREATMENT PLANT. COORDINATE CONDUIT TERMINATION LOCATION AT SEWER TREATMENT PLANT WITH MANUFACTURER. PROVIDE PLANT W/MAIN DISCONNECT THAT IS BEHIND A LOCKED DOOR TO PREVENT A PEDESTRIAN FROM SHUTTING DOWN PLANT. PROVIDE ALARM LIGHT & HORN AT PLANT FOR BOTH BLOWER & UV. PROVIDE ALARM RESET, ACKNOWLEDGE & TEST BUTTONS. PROVIDE CONTROLS FOR PLANT MOUNTED IN A PANEL LOCATED ABOVE GRADE AT THE PLANT LOCATION. PROVIDE A POST & PANEL SIMILAR TO DETAIL ON SHEET E9.

PANEL SHALL BE IN A NEMA 4X ENCLOSURE. ALARM LIGHTS & PUSH BUTTONS SHALL BE THE SAME TYPE AS SHOWN FOR HEAT TRACE ANNUNCIATOR PANEL. PROVIDE A NORMALLY OPEN DRY SET OF CONTACTS RATED AT 120V, 3A AC FOR THE BLOWER ALARM AND A SET FOR THE UV ALARM. CONNECT THESE TO THE SEWER SYSTEM ALARM PANEL, SEE SHEET E9.

Heat Trace was Deleted By CO NO.1 Contractor'd buried water / sewer to a minus 15' Elevation from Ground.

DO NOT SCALE FROM THESE DRAWINGS. USE DIMENSIONS SHOWN

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COFFMAN FERRY TERMINAL
PROJECT NO. 67844

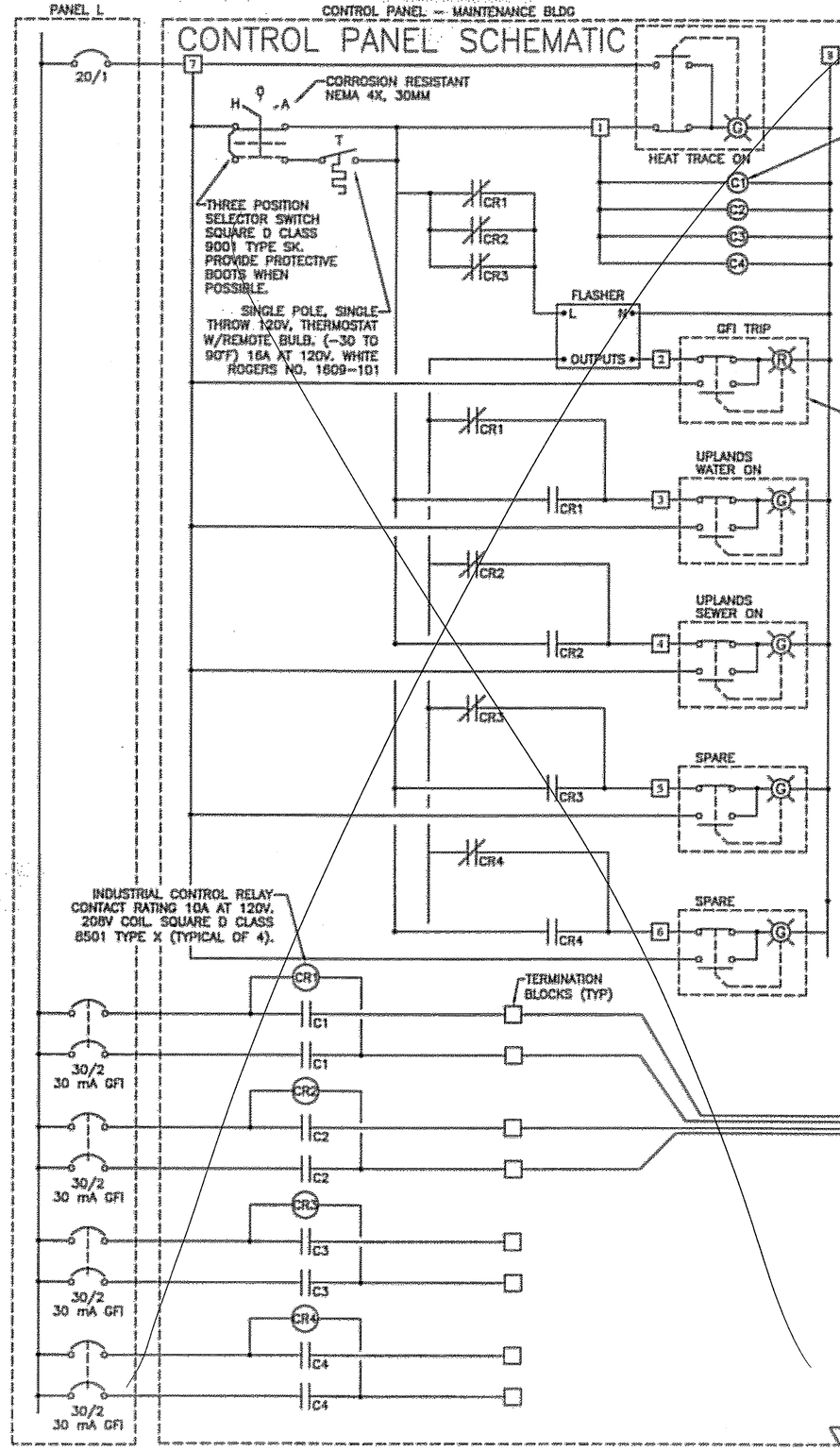
HEAT TRACE, LIFT STATION, AND SEWER TREATMENT SITE PLAN AND SECTION

REVISIONS NO.	DATE	DESCRIPTION

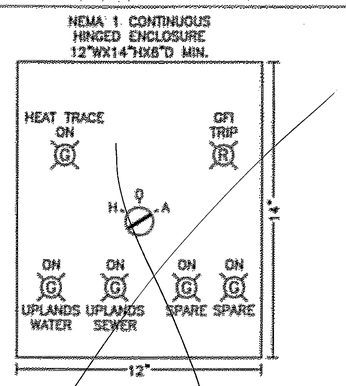
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✓ JM 2/09

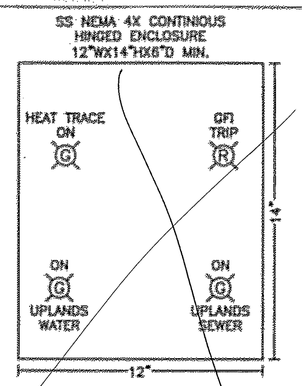
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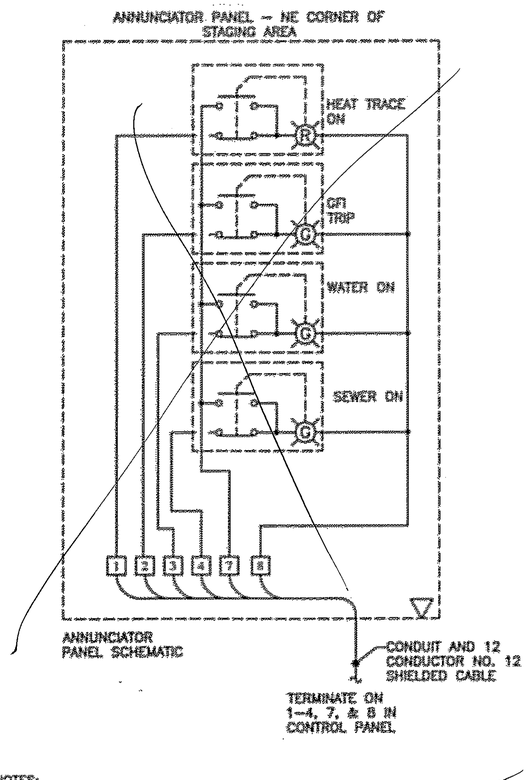
HEAT TRACE CONTROLS
NO SCALE



H.T. CONTROL PANEL IN ELEC BLDG
NO SCALE



H.T. ANNUNCIATOR PANEL – NE CORNER OF STAGING AREA
NO SCALE



Deleted CO No. 1

NOTES:

1. PROVIDE NEW HEAT TRACE FOR THE WATER AND SEWER LINES WHERE SHOWN ON SHEETS E1 & E5. THE NEW HEAT TRACE SHALL BE RUN INSIDE THE HEAT TRACE CHANNEL IN THE ARCTIC PIPE. SEE UPLAND SEWER & WATER DRAWINGS, PLANSET D. ROUTE TWO GROUPS OF HEAT TRACE CONDUCTORS FROM THE ANNUNCIATOR PANEL TO ARCTIC PIPE WATER LINE. PENETRATE THE ARCTIC PIPE WITH AN LB CONDULET. SEE SHEET E5. DO THE SAME FOR THE SEWER LINE. CONTROL THE HEAT TRACE AS SHOWN. THE WORK INCLUDES ROUTING THE NEW HEAT TRACE IN THE PIPES, SEALING THE PENETRATIONS AND ALL OTHER WORK REQUIRED. INSTALL THE HEAT TRACE PER THE MANUFACTURER'S REQUIREMENTS.

2. PROVIDE SELF REGULATING HEAT TRACE RATED AT 8 WATTS/FOOT AT 208V. THE HEAT TRACE SHALL HAVE NICKEL PLATED COPPER BUS WIRES, A RADIATION CROSS LINKED SEMICONDUCTIVE HEATING MATRIX, POLYLEFIN DIELECTRIC INSULATION, TINNED COPPER BRAID, & A FLUOROPOLYMER OVERJACKET. PROVIDE THERMON BSX8–2–FOJ OR EQUAL.

THE HEAT TRACE SHALL HAVE A MAXIMUM MAINTAIN TEMPERATURE OF 150°F, A MAXIMUM EXPOSURE TEMPERATURE OF 185°F (POWER OFF), A MINIMUM INSULATION TEMPERATURE OF –60°F, AND A MINIMUM BEND RADIUS OF 1.25".

3. PROVIDE A POWER CONNECTION KIT FOR EACH SECTION OF CABLE AT THE ANNUNCIATOR PANEL ENCLOSURE. PROVIDE AN END–OF–CIRCUIT TERMINATION KIT AT THE END OF EACH HEAT TRACE CABLE.

DO NOT SCALE FROM THESE DRAWINGS. USE DIMENSIONS SHOWN

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DRAWN BY: HKG

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COFFMAN FERRY TERMINAL
PROJECT NO. 67844

HEAT TRACE CONTROLS

REVISIONS NO.	DATE	DESCRIPTION	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			67844	2005	E6	20

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EQUIPMENT SCHEDULE

(1) PUMP CONTROL PANEL.

(2) CIRCUIT BREAKER IN PANEL HMDP IN THE MAINTENANCE BUILDING.

(3) WATT HOUR METER:

(4) HEAVY DUTY DISCONNECT, 30A, 3 POLE

(5) FUSE: DUAL ELEMENT/TIME DELAY, CLASS RK1 (8A WITH 30A FRAME).

(6) CONTACTOR (NEMA 1).

(7) THERMAL OVERLOAD RELAY (SIZE PER MOTOR FULL LOAD AMPS).

(8) NOT USED

(9) NOT USED

(10) NOT USED

(11) SEWAGE LIFT PUMPS (3 HP).

(12) SAFETY SWITCH, 600V, 3 POLE, GROUND BUS, DOUBLE THROW.

(13) NOT USED

(14) DISCONNECT: HEAVY DUTY, 3 POLE, 60A.

(15) EYS CONDUIT SEAL. THE WET WELL IS A CLASS 1, DIV 1 AREA.

(16) 1-1/4"C, WITH MULTITRODE PROBE CABLE.

(17) 1-1/4"C, W/PUMP CABLE.

(18) NOT USED

(19) JUNCTION BOX: EXPLOSION PROOF WITH SEALING HUB, CROUSE-HINDS EGJ422. SEAL CONDUIT TO CONTROL PANEL.

(20) 1-1/4"C, 3 NO. 12 (MOTOR FEEDERS), 2 NO. 12 (THERMAL DETECTOR & SEAL DETECTOR), & 1 NO. 12 GND.

(21) 1-1/4"C, 10 NO. 14 (FLOAT SIGNALS).

(22) PORTABLE GENERATOR RECEPTACLE 3 WIRE, 3 POLE. CROUSE HINDS AR631522, PROVIDE MATCHING PLUG APJ6375522 WITH BACK BOX AND REVERSE SERVICE INSULATORS.

(23) NOT USED

(24) NOT USED.

(25) NOT USED.

(26) NOT USED.

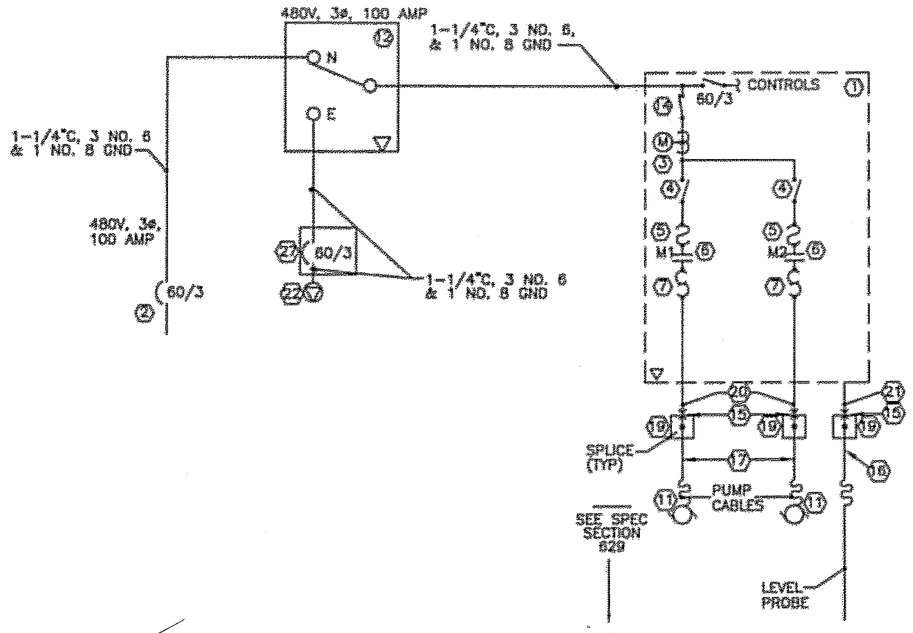
(27) PORTABLE GENSET CIRCUIT BREAKER: MOLDED CASE CIRCUIT BREAKER IN NEMA 3R ENCLOSURE, 60 AMPS, 3 POLE AT 480V. SQUARE D TYPE FAL

NOTE:

1. PROVIDE STAINLESS STEEL CABLE GRIPS FOR CABLES IN WET WELL.

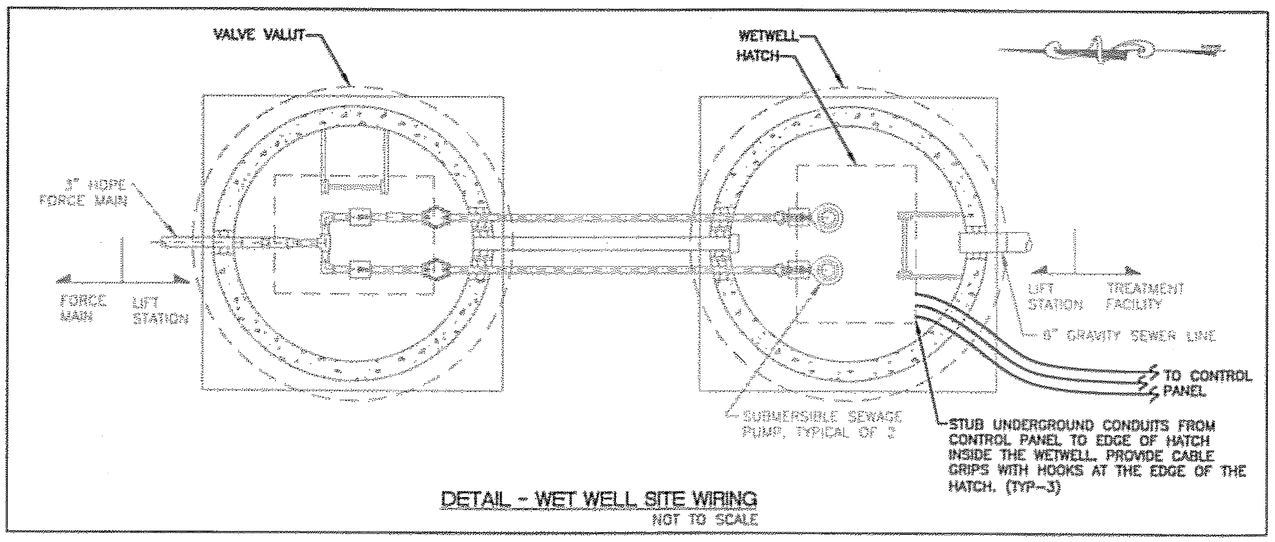
2. BOND NEUTRAL TO GROUND BUS AT METER/DISCONNECT. DO NOT BOND NEUTRAL TO GROUND AT ANY OTHER POINT.

3. THE LIFT STATION IS NOT ENTIRELY SHOWN. SEE UPLANDS SEWER & WATER DRAWINGS, PLANSET D.



LIFT STATION SINGLE LINE DIAGRAM

NO SCALE



DETAIL - WET WELL SITE WIRING

NOT TO SCALE

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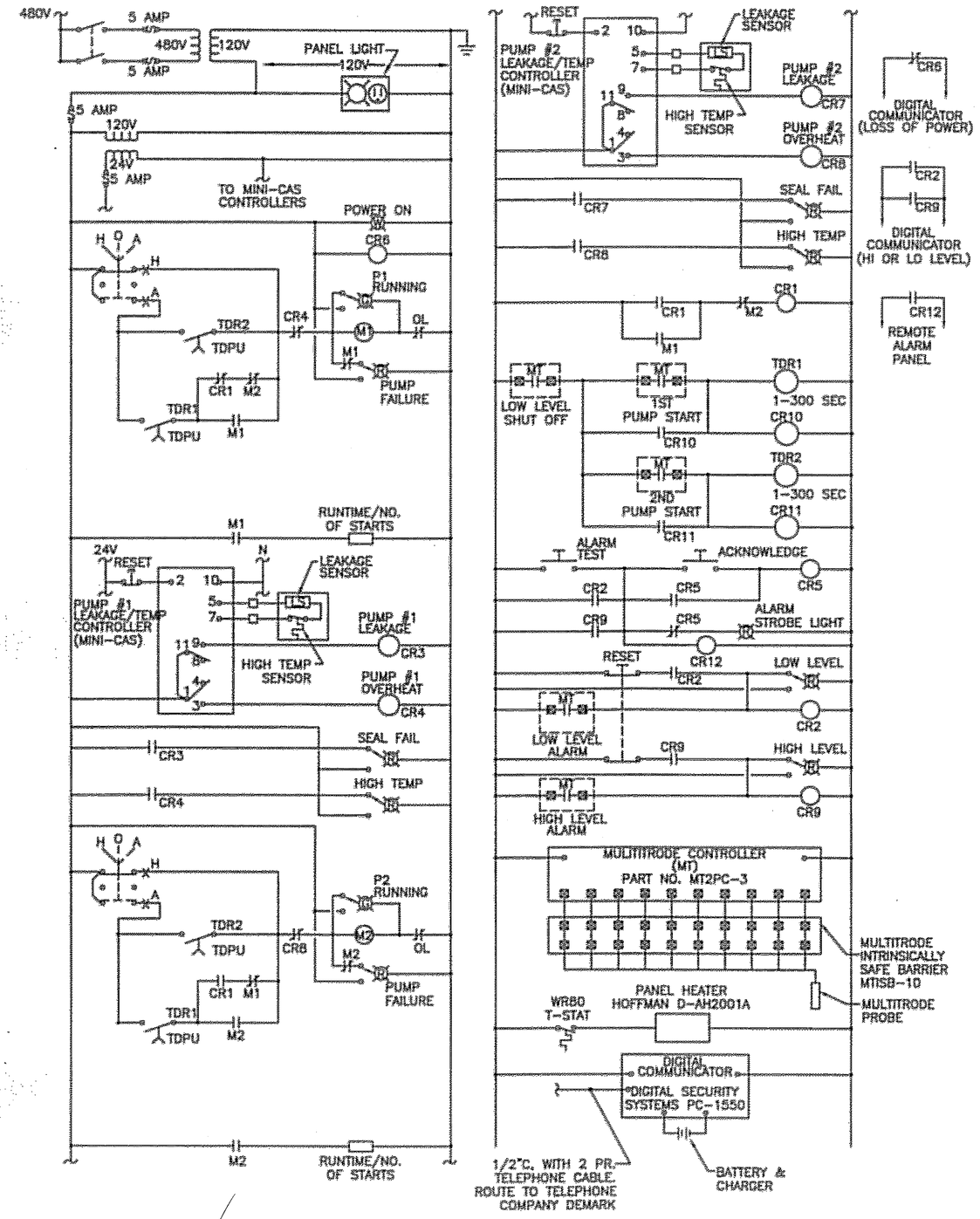
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PROJECT NO. 67844

LIFT STATION SINGLE LINE

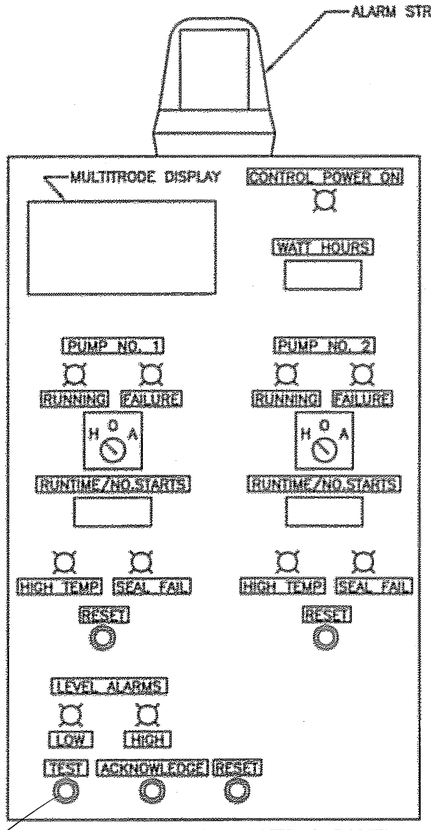
REVISIONS NO.	DATE	DESCRIPTION	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			67844	2005	E7	20

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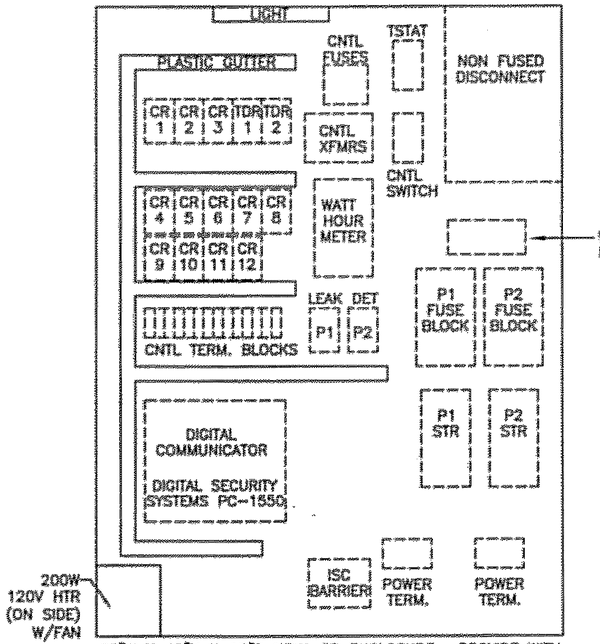
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LADDER DIAGRAM - PUMP CONTROLS
NO SCALE



DOOR ELEVATION - CONTROL PANEL
NO SCALE



36"W X 48"H X 12"D NEMA 3R ENCLOSURE. PROVIDE WITH VENTILATION GRILLS AND FAN IF HEAT LOAD CALCS REQUIRE.

INTERIOR ELEVATION - CONTROL PANEL
NO SCALE

NOTE:

PROGRAM MULTITRODE CONTROLLER TO CLOSE A SET OF NORMALLY OPEN DRY CONTACTS FOR EACH OF 5 LEVELS: (1) LOW LEVEL ALARM (2) LOW LEVEL SHUT OFF (3) 1st PUMP START (4) 2nd PUMP START (5) HIGH LEVEL ALARM. SEE UPLAND SEWER & WATER DRAWINGS, PLANSET D, FOR THE LEVEL ELEVATIONS. PROVIDE PROBE SET TO THESE ELEVATIONS.

NOTES:

1. ALL RELAYS SHALL BE INDUSTRIAL CONTROL RELAYS SQUARE D CLASS 8501 TYPE X.

2. ALL LIGHTS SHALL BE NEMA 4X, CORROSIVE RESISTANT 30MM PUSH-TO-TEST. SQUARE D CLASS 9001 TYPE SK. PROVIDE CLEAR PROTECTIVE BOOTS.

3. ALL SELECTOR SWITCHES & PUSH BUTTONS SHALL BE NEMA 4X, CORROSION RESISTANT, 30MM, SQUARE D CLASS 9001 TYPE SK. PROVIDE CLEAR PROTECTIVE BOOTS.

DO NOT SCALE FROM THESE DRAWINGS. USE DIMENSIONS SHOWN

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PROJECT NO. 67844

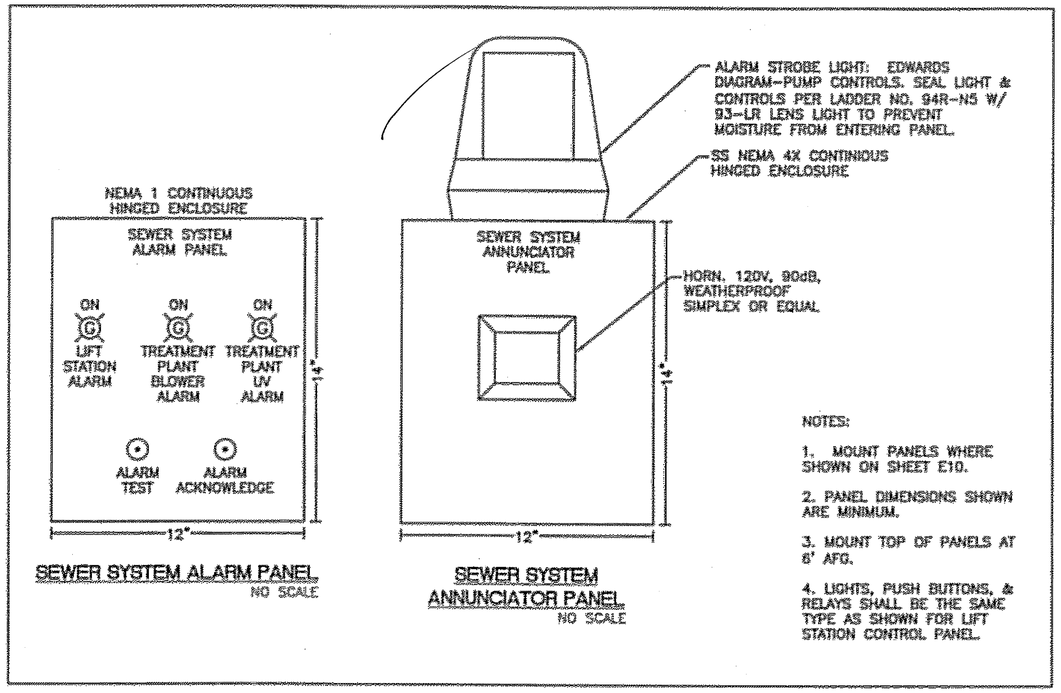
LIFT STATION PUMP CONTROLS

REVISIONS NO.	DATE	DESCRIPTION	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
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2/07

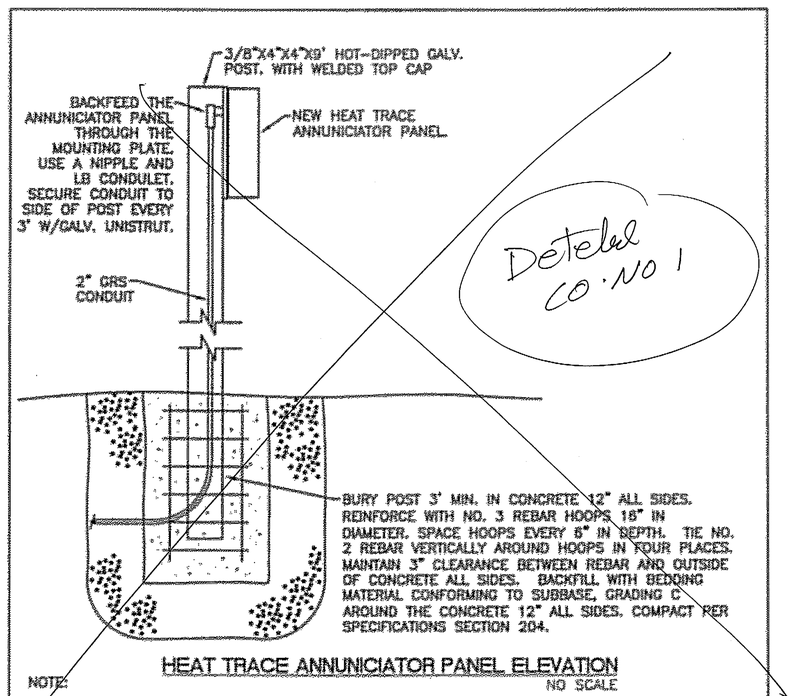
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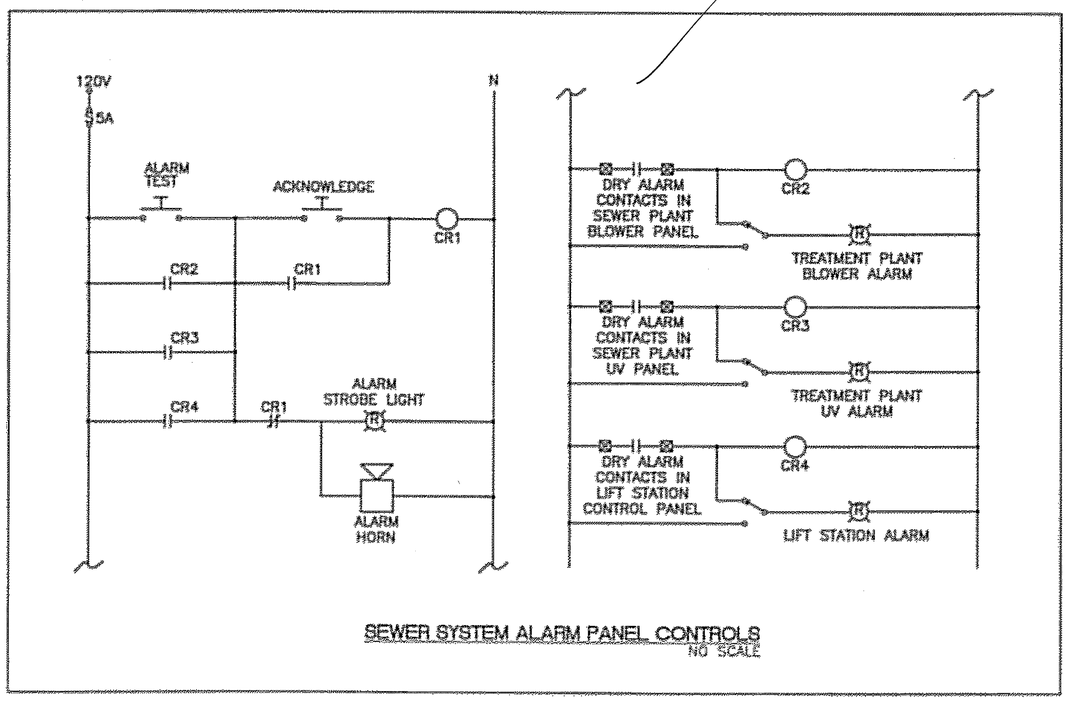


SEWER SYSTEM ALARM PANEL
NO SCALE

SEWER SYSTEM ANNUNCIATOR PANEL
NO SCALE



HEAT TRACE ANNUNICIATOR PANEL ELEVATION
NO SCALE



SEWER SYSTEM ALARM PANEL CONTROLS
NO SCALE

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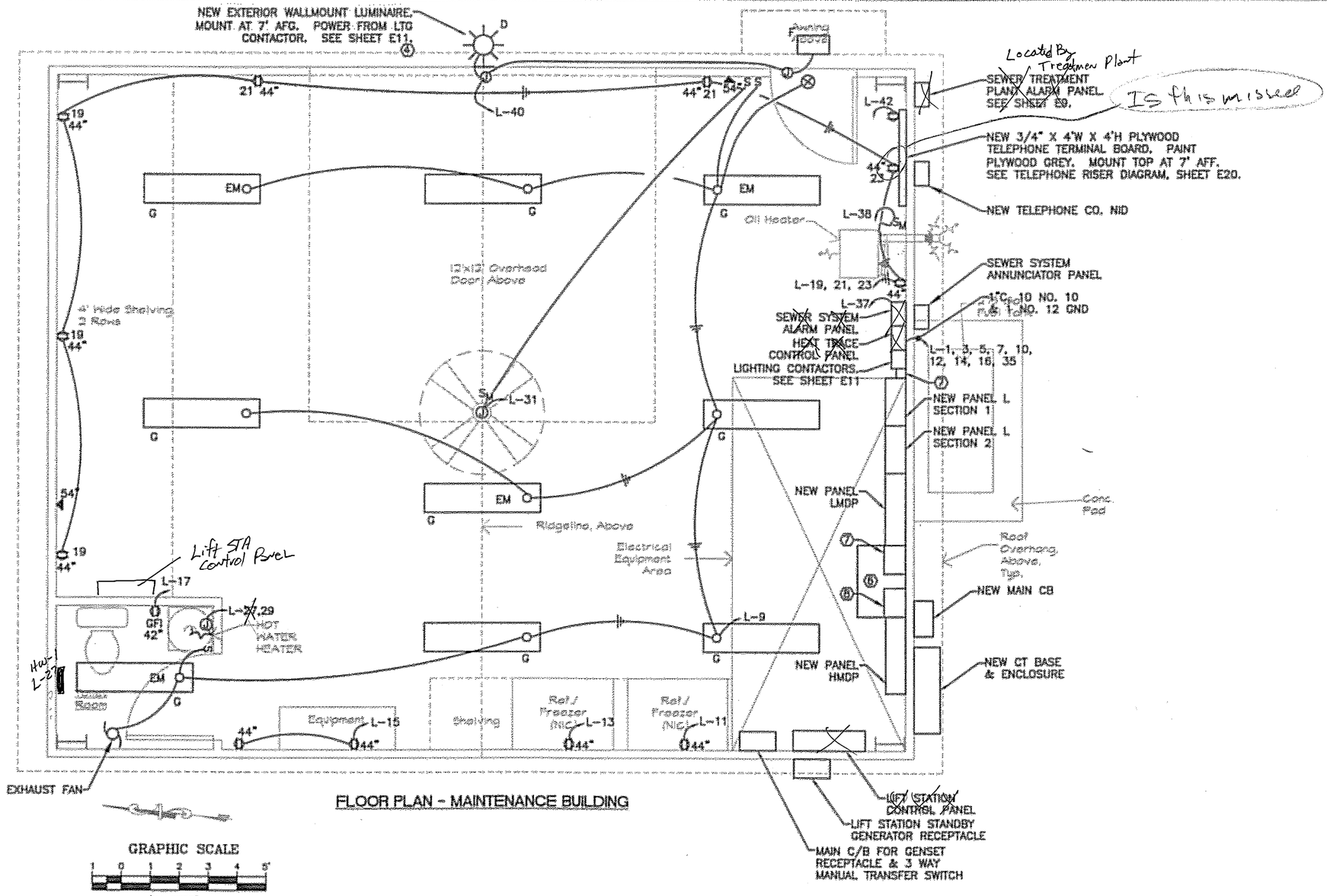
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PROJECT NO. 67844

ELEVATION VIEW - H.T. ANNUNICIATOR PANEL & S.T.P. ALARM PANELS

REVISIONS NO.	DATE	DESCRIPTION	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			67844	2005	E9	20

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FLOOR PLAN - MAINTENANCE BUILDING

GRAPHIC SCALE

1 0 1 2 3 4 5'

(IN FEET)

NOTES:

1. THE MAINTENANCE BUILDING WILL BE BID AS EITHER A METAL OR A TIMBER BUILDING. SEE PASSENGER TERMINAL & MAINTENANCE BUILDINGS, PLANSET F (BOTH OPTIONS).
2. SURFACE MOUNT TYPE G LUMINAIRES TO CEILING. IF LUMINAIRES HAVE TO BE RELOCATED TO ACCOMMODATE BUILDING STRUCTURE, COORDINATE LOCATIONS WITH ENGINEER.
3. PROVIDE CIRCUIT BREAKER (SEE SHEET E4), CONDUCTORS, CONDUIT, AND OTHER ELECTRICAL FOR SEWER TREATMET PLANT AS REQUIRED. COORDINATE ELECTRICAL INSTALLATION WITH SEWER TREATMENT PLANT MANUFACTURER. PROVIDE ALARMS AS SHOWN.
4. PROVIDE WITH WALL MOUNT BRACKET. FEED LUMINARE THROUGH WALL MOUNT BRACKET THROUGH J-BOX MOUNTED INSIDE THE BUILDING. MOUNT FIXTURE ABOVE DOOR AT 16' AFG. PROVIDE STRUCTURAL BRACING ON INSIDE OF WALL AS REQUIRED TO SUPPORT LUMINAIRE. PROVIDE BACK PLATE TO SUPPORT LUMINAIRE MOUNTING BOLTS.
5. MOUNT THE TOPS OF ALL THE PANELS IN THE MAINTENANCE BUILDING AT 6' AFF.
6. NEW STEP DOWN TRANSFORMER. SEE SHEET E3. MOUNT BELOW TRANSIENT VOLTAGE SURGE SUPRESSION (TVSS).
7. NEW 120/208V, TRANSIENT VOLTAGE SURGE SUPRESSION (TVSS). SEE SHEET E3. MOUNT TOP AT 72" AFF.
8. NEW 277/480V, TRANSIENT VOLTAGE SURGE SUPRESSION (TVSS). SEE SHEET E3. MOUNT TOP AT 72" AFF.

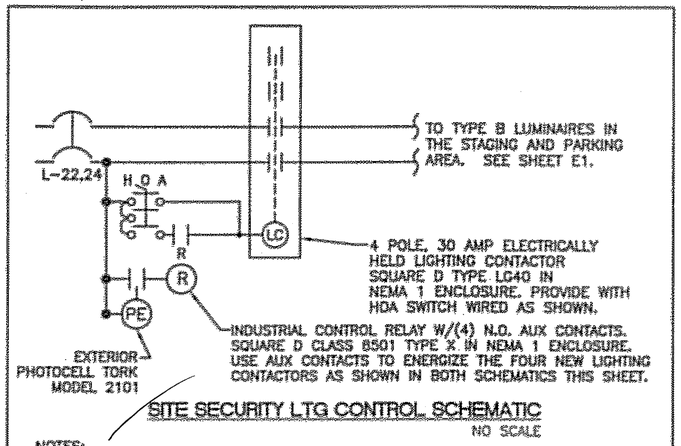
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CHECKED BY: HGH DRAWN BY: NKG	COFFMAN FERRY TERMINAL PROJECT NO. 67844 **FLOOR PLAN - MAINTENANCE BUILDING**

REVISIONS NO.	DATE	DESCRIPTION	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			67844	2005	E10	20

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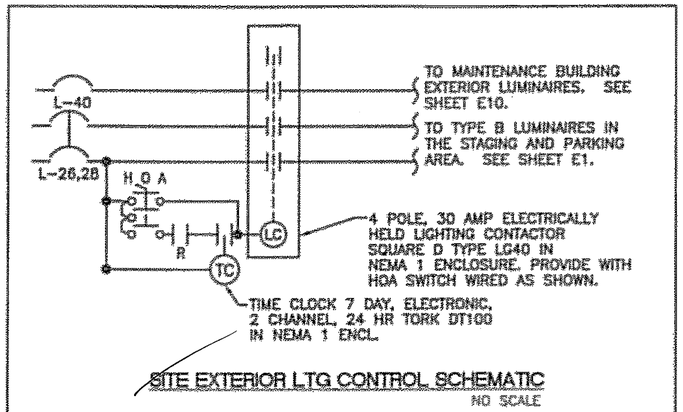
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SITE SECURITY LTG CONTROL SCHEMATIC

NO SCALE

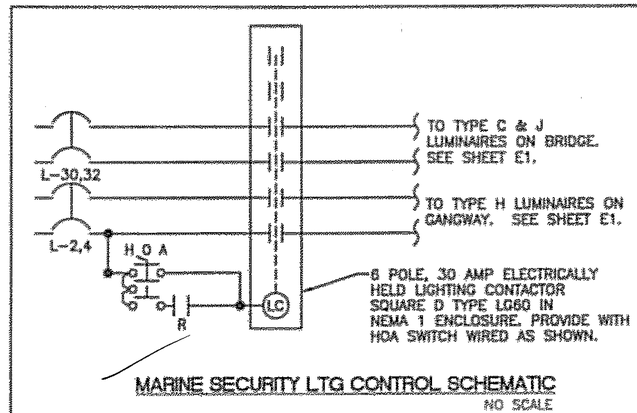
NOTES:
1. MOUNT CONTACTOR NEXT TO PANEL L IN THE MAINTENANCE BUILDING. MOUNT PHOTOCELL ON NORTH SIDE OF BUILDING AT 7' MIN. AFF. SHIELD PE CELL FROM ALL LUMINAIRES.



SITE EXTERIOR LTG CONTROL SCHEMATIC

NO SCALE

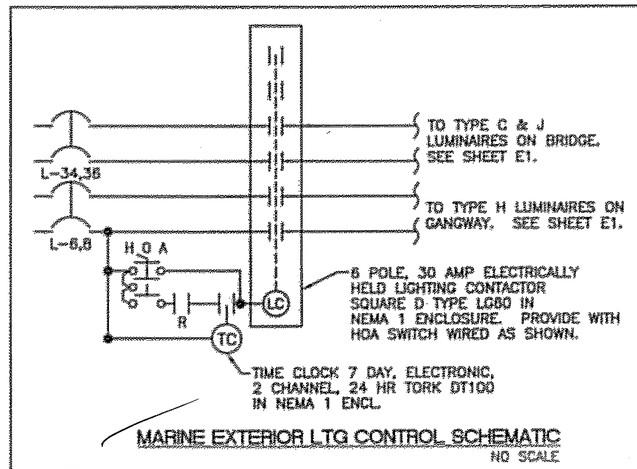
NOTES:
1. MOUNT CONTACTOR NEXT TO PANEL L IN THE MAINTENANCE BUILDING.



MARINE SECURITY LTG CONTROL SCHEMATIC

NO SCALE

NOTES:
1. MOUNT CONTACTOR NEXT TO PANEL L IN THE MAINTENANCE BUILDING.



MARINE EXTERIOR LTG CONTROL SCHEMATIC

NO SCALE

NOTES:
1. MOUNT CONTACTOR NEXT TO PANEL L IN THE MAINTENANCE BUILDING.

LUMINAIRE SCHEDULE

TYPE	DESCRIPTION	MANUFACTURER	LAMPS	REMARKS
A	SMALL ARCHETYPE LUMINAIRE. DIE CAST ALUM HOUSING & DOOR. SUPER TGIC POWDER COAT.	KIM ARCHETYPE SERIES TYPE III DIST., LIGHT GREY	150W HPS	SINGLE LATCH, NO TOOL ENTRY. STAINLESS HARDWARE POLE MOUNT. PROVIDE WITH QUAD TAP BALLAST AND NIXALITE BIRD CONTROL.
B	ARCHETYPE LUMINAIRE. DIE CAST ALUMINIUM HOUSING & DOOR SUPER TGIC POWDER COAT.	KIM ARCHETYPE SERIES TYPE III DIST., LIGHT GREY	250W MH	SINGLE LATCH, NO TOOL ENTRY. STAINLESS HARDWARE POLE MOUNT. PROVIDE WITH QUAD TAP BALLAST AND NIXALITE BIRD CONTROL.
C	SMALL ARCHETYPE LUMINAIRE. DIE CAST ALUM HOUSING & DOOR. SUPER TGIC POWDER COAT.	KIM ARCHETYPE SERIES TYPE IV DIST., LIGHT GREY	150W HPS	SINGLE LATCH, NO TOOL ENTRY. STAINLESS HARDWARE POLE MOUNT. PROVIDE WITH QUAD TAP BALLAST AND NIXALITE BIRD CONTROL.
D	SMALL ARCHETYPE LUMINAIRE. DIE CAST ALUM HOUSING & DOOR. SUPER TGIC POWDER COAT.	KIM ARCHETYPE SERIES TYPE III DIST., LIGHT GREY	150W HPS	PROVIDE WITH W/WALLMOUNT ADAPTER & QUADTAP BALLAST. SINGLE LATCH, NO TOOL ENTRY.
F	POLYCARBONATE, DEEP SHIELDED WALLMOUNT LUMINAIRE	RUUD E8503-IV	35W HPS	MOUNT ABOVE DOOR BELOW AWNING
G	1 X 4 SURFACE MOUNT WRAPAROUND	LITHONIA AW432120GEB	(3) 32W 3500K	PROVIDE WITH EMERGENCY BALLAST WHERE SHOWN WITH EM
H	WATER PROOF SURFACE MOUNT FLUORESCENT WRAPAROUND WITH POLYCARBONATE LENS	LITHONIA EISC140PCLMVOLTCW20	(1) 40W T12 3500K	PROVIDE WITH 208V COLD WEATHER BALLAST.
J	6" DIA. RAILING MOUNTED TUBULAR HID WITH PRISMATIC LENS (TUBALOID SERIES)	VOIGT LIGHTING 0-16-208-WM BRONZE FINISH	(1) 70W HPS	RAILING MOUNTED. SEE DETAIL. 208V BALLAST.
⊗	EMERGENCY EXIT SIGN	LITHONIA ELN	LED	MOUNT ABOVE DOOR

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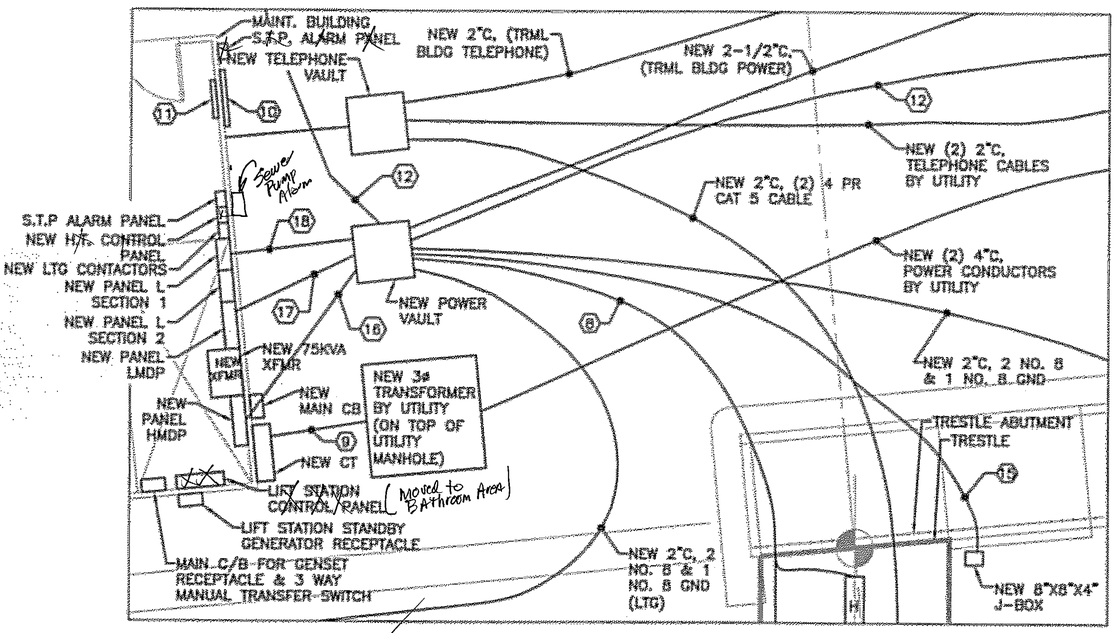
COFFMAN FERRY TERMINAL
PROJECT NO. 67844

LIGHTING CONTROL SCHEMATICS & LUMINAIRE SCHEDULE

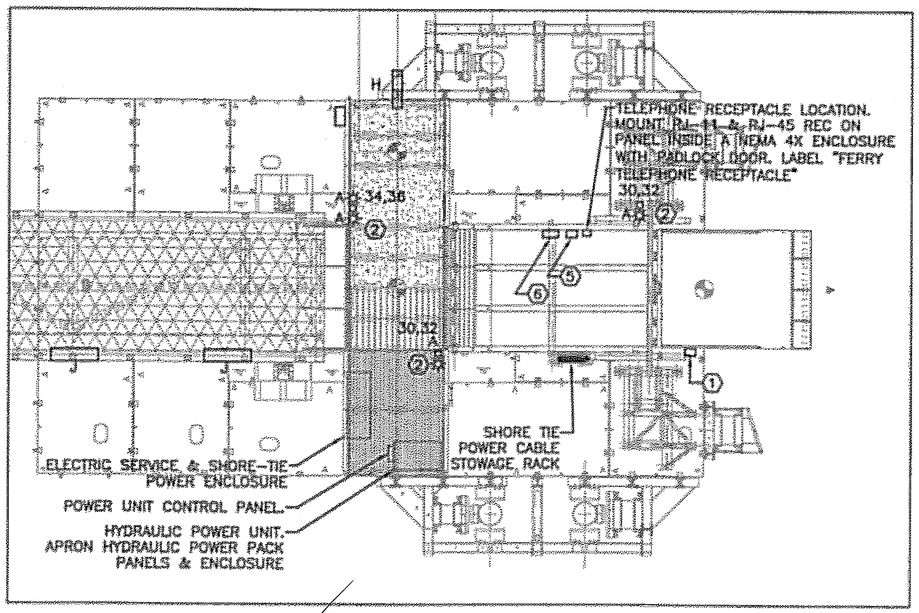
REVISIONS NO.	DATE	DESCRIPTION	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			67844	2005	E11	20

V/B 2/07

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GANGWAY ABUTMENT - EXPANDED VIEW
NO SCALE



FLOAT - EXPANDED VIEW
NO SCALE

NOTES:

1. LIMIT SWITCHES ON HYDRAULIC ACTUATORS. CONNECT CONTROL WIRING TO LIMIT SWITCHES PER SCHEMATIC ON SHEET E18. PROVIDE FLEX CONDUIT, J-BOXES, AND CONDUIT AS NECESSARY. SEE MARINE DRAWINGS, PLANSET A.

2. NEW POLE. SEE SHEET E19 FOR DETAILS. MOUNT TO PRE-WELDED 1" ANCHOR BOLTS ON MARINE STRUCTURE. BASE PLATE PER DETAIL ON SHEET E19. SEE MARINE FACILITIES DRAWINGS, PLANSET A.

3. PROVIDE CONDUIT AND WIRING ON FLOAT AND PLATFORM AS REQUIRED TO POWER EQUIPMENT.

4. PROVIDE (3) ENCLOSURES AT BOTTOM OF GANGWAY. SECURE ENCLOSURES TO FLOAT. SEE ELEVATION & NOTES ON SHEET E14.

5. NEW 60A SHIP POWER RECEPTACLE MOUNTED TO UNISTRUT ON 4" X 3" GALV POST WELDED TO MARINE STRUCTURE. LOCATE WHERE SHOWN ON THE MARINE DRAWINGS, PLANSET A. ORIENT RECEPTACLE TO FACE THE SHIP.

6. NEW HYDRAULIC POWER UNIT CONTROL STATION. MOUNT TO 4" X 3" GALV POSTS THAT ARE WELDED TO THE STRUCTURE. LOCATE WHERE SHOWN ON THE MARINE DRAWINGS, PLANSET A.

7. MOUNT THE TYPE J LUMINAIRES ON BRIDGE RAILINGS PER DETAILS ON SHEET E-19. MOUNT CONDUIT TO UNISTRUT ON THE OUTSIDE OF THE RAILING POSTS. COORDINATE W/GENERAL TO HAVE UNISTRUT WELDED TO POSTS DURING FABRICATION BEFORE HOT-DIP GALVANIZING. ROUTE FLEX CONDUIT FROM ENCLOSURE ON FLOAT TO ENCLOSURE MOUNTED TO BOTTOM OF BRIDGE. SEE ELEVATION, SHEET E15. PROVIDE ENOUGH FLEX CONDUIT BETWEEN THE ENCLOSURE ON THE FLOAT AND THE ENCLOSURE ON THE BRIDGE TO ACCOMMODATE THE MOVEMENT OF THE BRIDGE WITH THE TIDES. INSTALL AFTER WATCHING A FULL TIDAL CYCLE COMPENSATING FOR THE HIGHEST TIDAL CYCLE.

   COORDINATE CONDUIT INSTALLATION WITH ENGINEER. THE CONDUIT SHALL NOT RUB ON THE STRUCTURE DURING TIDAL MOVEMENT. PROVIDE CONDULETS AT EACH END OF THE FLEX CONDUIT SO THAT IT LEAVES THE FLOAT ENCLOSURE VERTICALLY AND ENTERS THE BRIDGE ENCLOSURE VERTICALLY. THE BRIDGE IS ALSO HINGED AT THE TOP. ROUTE CONDUIT FROM THE BRIDGE TO THE APPROACH IN THE SAME WAY AS THE CONDUIT BETWEEN THE BOTTOM OF THE BRIDGE AND THE FLOAT. DRILL A DRAIN HOLE IN THE CONDUIT AT IT'S LOW POINT.

8. NEW (1) 4"C, (1) 16 COND. NO. 10 TYPE SOOW CABLE (APPROACH, BRIDGE, & FLOAT LTG & MAINTENANCE RECEPTACLE)
   (1) 1-1/2"C, 4 NO. 10 & 1 NO 10 GND (GANGWAY LIGHTING)
   (1) 2"C, (2) 4 PR. CAT 5 CABLE (TELEPHONE)
   (1) 4"C, 4 NO. 4 TYPE G CABLE (HYD. POWER UNIT CONTROL PANEL)
   (1) 4"C, 4 NO. 2/0 TYPE G CABLE (SHORE TIE)
   (2) 4"C, (SPARE)

9. NEW 4"C, 4 NO. 500 MCM

10. NEW NID. SEE SHEET E10.

11. NEW TELEPHONE TERMINAL BOARD. SEE SHEET E10.

12. NEW 2"C, 4 NO. 8 CABLE & 1 NO. 8 GND. (PARKING LOT LTG)

13. THE ABUTMENT, PEDESTRIAN TRESTLE, GANGWAY, AND FLOAT ARE NOT ENTIRELY SHOWN. SEE MARINE DRAWINGS, PLAN SET A.

14. PROVIDE (2) SPARE 2"C & (2) SPARE 4"C BETWEEN PANEL HMDP AND THE POWER VAULT. PROVIDE (2) SPARE 2"C BETWEEN PANEL L AND THE POWER VAULT.

15. PROVIDE (1) 2"C FROM THE HEAT TRACE CONTROL PANEL TO A STAINLESS STEEL HOFFMAN BOX WITH HINGED DOOR APPROX. 6" X 8" X 8" ON A GALV POST NEXT TO THE CONCRETE STANTION. SEE UPLAND SEWER & WATER DRAWINGS, PLANSET D. MOUNT PANEL IN SIMILIAR MANER AS ANNUNICIATOR PANEL ELEVATION, SHEET E9.

16. (1) 4"C, 4 NO. 4 TYPE G (HYD. POWER UNIT CONTROL PANEL)
    (1) 4"C, 4 NO. 2/0 TYPE G (SHORE TIE)
    (1) 4"C, SPARE

17. (1) 2-1/2"C, SPARE (TERMINAL BLDG POWER)
    (1) 4"C, SPARE

18. (1) 2"C, 4 NO. 8 & 1 NO. 8 GND (PARKING LOT LIGHTING)
    (1) 2"C, 2 NO. 8 & 1 NO. 8 GND (PARKING LOT LIGHTING)
    (1) 2"C, FUTURE MARINE HEAT TRACE
    (1) 2"C, FUTURE MARINE HEAT TRACE
    (1) 4"C, 16 COND NO. 10 TYPE SOOW CABLE (APPROACH, BRIDGE, FLOAT LTG & MAINTENANCE RECEPTACLE)
    (1) 1-1/2"C, 4 NO. 10 & 1 NO. 10 GND (GANGWAY LIGHTING)
    (2) 2"C, SPARE

19. ROUTE TYPE G AND TYPE SOOW CABLES UP INTO PANELS THAT FEED THEM. ROUTE THE CABLES FROM THE PANELS CONTINUOUSLY TO THE ENCLOSURES WITH POWER DISTRIBUTION BLOCKS ON THE MARINE STRUCTURE. PUT ANTI-OXIDATION ELECTRICAL COMPOUND ON ALL POWER DISTRIBUTION BLOCKS & ON ALL TERMINATIONS ON ALL ELECTRICAL EQUIPMENT LOCATED OUTSIDE. (APPLICABLE TO ALL SHEETS)

DO NOT SCALE FROM THESE DRAWINGS. USE DIMENSIONS SHOWN

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CHECKED BY: MDH
DRAWN BY: MKG

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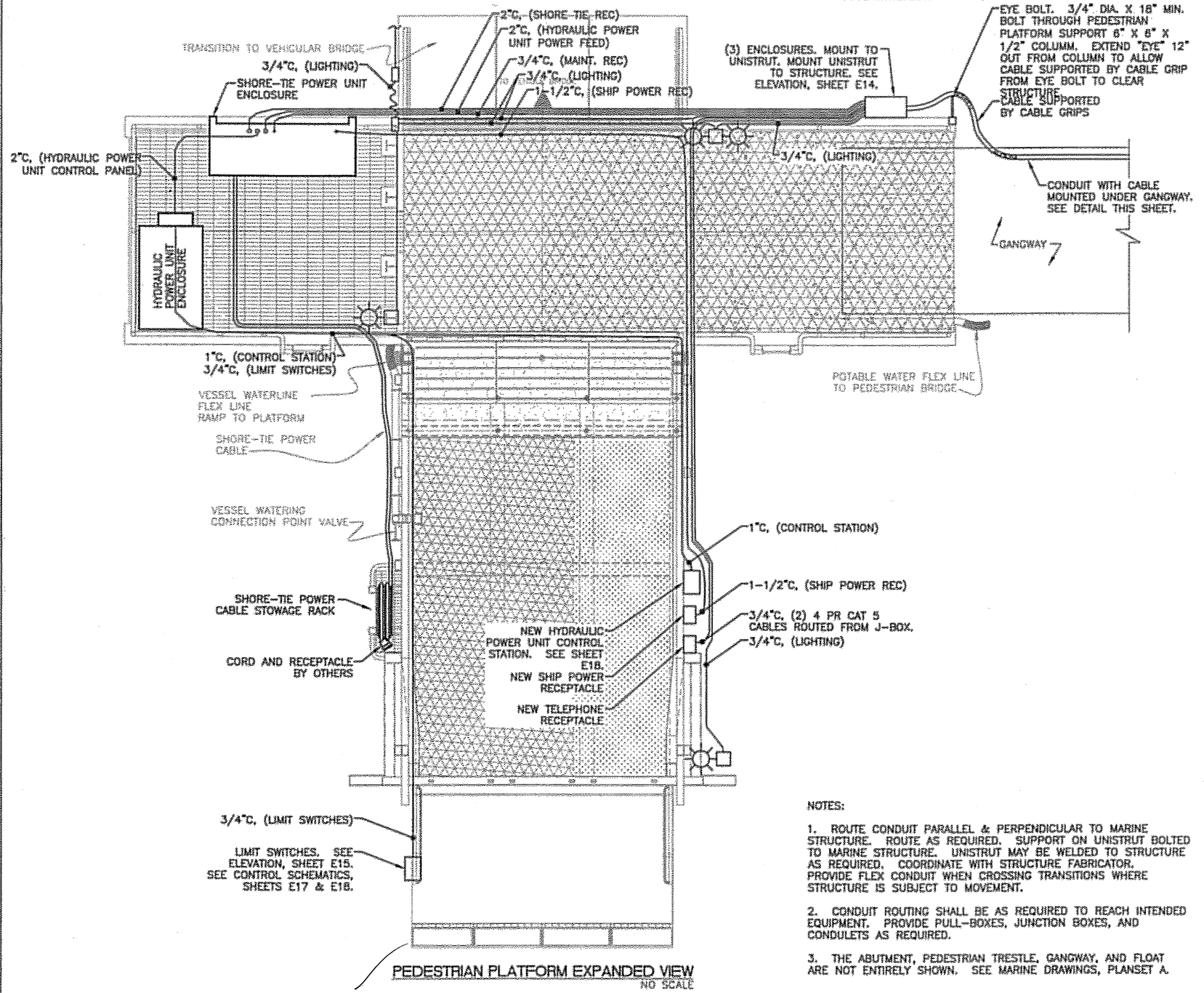
COFFMAN FERRY TERMINAL
PROJECT NO. 67844

GANGWAY ABUTMENT AND FLOAT EXPANDED VIEW

REVISIONS NO.	DATE	DESCRIPTION	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			67844	2005	E12	20

JMB 2/07

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PEDESTRIAN PLATFORM EXPANDED VIEW
NO SCALE

NOTES:

1. ROUTE CONDUIT PARALLEL & PERPENDICULAR TO MARINE STRUCTURE. ROUTE AS REQUIRED. SUPPORT ON UNISTRUT BOLTED TO MARINE STRUCTURE. UNISTRUT MAY BE WELDED TO STRUCTURE AS REQUIRED. COORDINATE WITH STRUCTURE FABRICATOR. PROVIDE FLEX CONDUIT WHEN CROSSING TRANSITIONS WHERE STRUCTURE IS SUBJECT TO MOVEMENT.

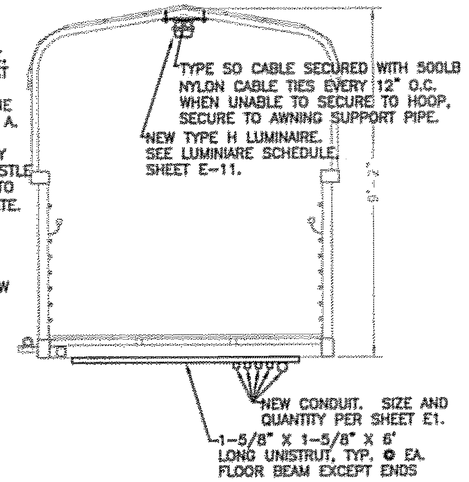
2. CONDUIT ROUTING SHALL BE AS REQUIRED TO REACH INTENDED EQUIPMENT. PROVIDE PULL-BOXES, JUNCTION BOXES, AND CONDULETS AS REQUIRED.

3. THE ABUTMENT, PEDESTRIAN TRESTLE, GANGWAY, AND FLOAT ARE NOT ENTIRELY SHOWN. SEE MARINE DRAWINGS, PLANSET A.

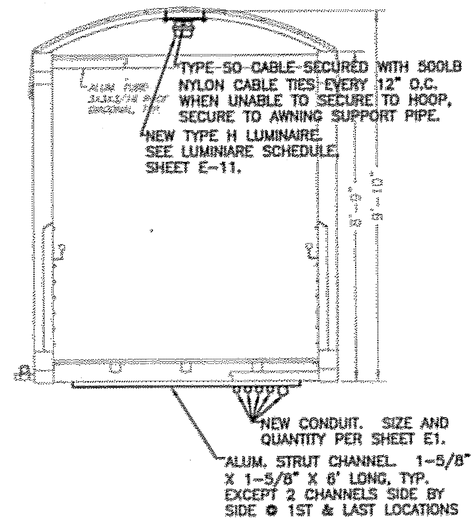
NOTES:

1. THE ABUTMENT, PEDESTRIAN TRESTLE, GANGWAY, AND FLOAT ARE NOT ENTIRELY SHOWN. SEE MARINE DRAWINGS, PLANSET A.

2. MOUNT GANGWAY AND APPROACH TRESTLE TYPE H LUMINAIRE TO 1/4" ALUMINUM PLATE. SIZE AS REQUIRED. SUPPORT PLATE TO STRUCTURE WITH STAINLESS STEEL U-BOLTS. ADD UHMW WASHERS BETWEEN BOLTS AND PLATES.



TYPICAL SECTION - APPROACH TRESTLE
NO SCALE



TYPICAL SECTION - GANGWAY
NO SCALE

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DRAWN BY: MKG
CHECKED BY: HGH

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COFFMAN FERRY TERMINAL
PROJECT NO. 67844

PEDESTRIAN PLATFORM EXPANDED VIEW AND GANGWAY SECTIONS

REVISIONS NO.	DATE	DESCRIPTION	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			67844	2005	E13	20

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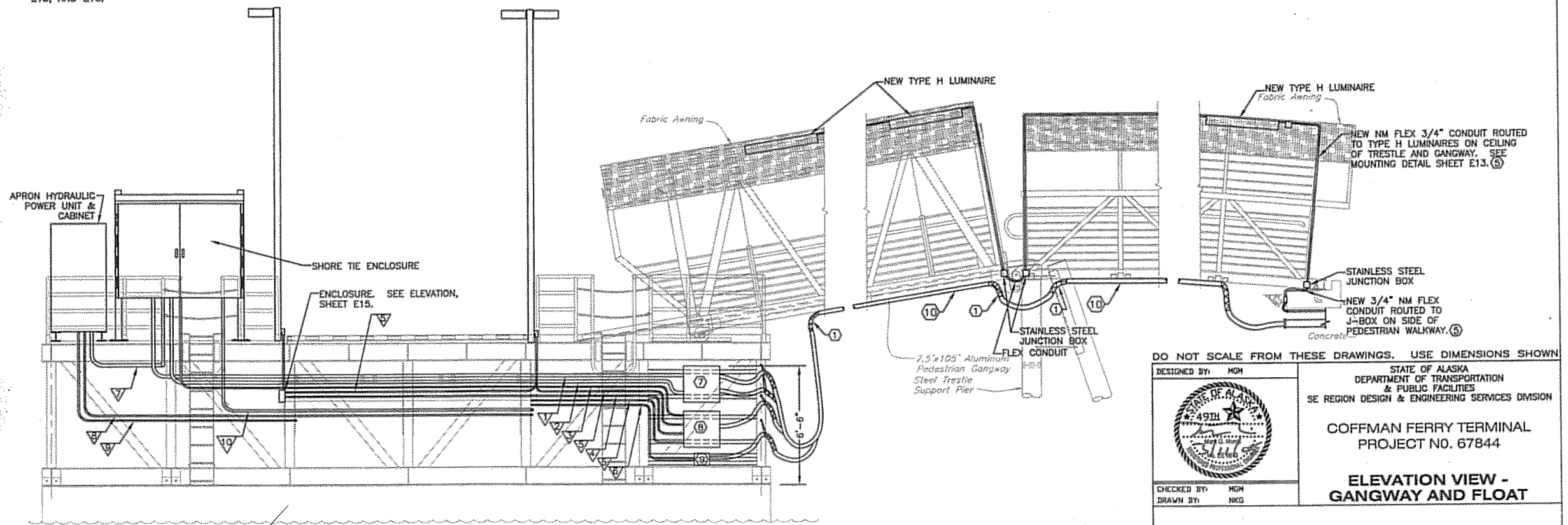
1. CABLE SUPPORTED BY STAINLESS STEEL CABLE GRIP. SUPPORT CABLE WITH CABLE GRIPS EACH TIME CABLE ENTERS OR EXITS CONDUIT, AT EACH END, AND IN BETWEEN AS REQUIRED.
2. ROUTE CABLES OUT OF CONDUIT ON GANGWAY TO CONDUIT OR ENCLOSURES ON FLOAT. PROVIDE A STAINLESS STEEL CORD GRIP WHERE CABLE LEAVES CONDUIT AND WHERE IT ENTERS ENCLOSURE OR CONDUIT ON FLOAT. SUPPORT CABLE WITH CORD GRIP SECURED TO GALV. EYE BOLT IN FLOAT STRUCTURE. PROVIDE SUFFICIENT SLACK IN CABLE TO ACCOMMODATE FOR GANGWAY MOVEMENT DUE TO TIDES. DO NOT LET CABLES HIT FLOAT STRUCTURE OR WATER AT ANY TIDE LEVEL. ROUTE TELEPHONE CABLE FROM CONDUIT ON GANGWAY ENCLOSURE ON FLOAT IN THE SAME MANNER AS THE POWER CABLES.
3. STUB CONDUIT THROUGH ABUTMENT AT END OF TRESTLE. PROVIDE CABLE GRIPS WHERE CABLE LEAVES CONDUIT THROUGH ABUTMENT AND WHERE IT ENTERS CONDUIT ON TRESTLE. TYPICAL FOR POWER AND TELEPHONE CABLES.
4. MOUNT CONDUIT TO UNISTRUT ON UNDERSIDE OF GANGWAY AND TRESTLE. UNISTRUT IS MOUNTED TO GANGWAY EVERY 7'6" O.C. AND EVERY 4'9" O.C. ON TRESTLE. USE STAINLESS STEEL HARDWARE.
5. STUB NEW 1-1/2"C THROUGH THE ABUTMENT AND ROUTE INTO J-BOX MOUNTED TO FACE OF ABUTMENT. ROUTE NM FLEX CONDUIT FROM J-BOX TO NEW J-BOX MOUNTED TO SIDE OF TRESTLE. ROUTE 3/4"C FROM J-BOX ON TRESTLE UP STRUCTURAL MEMBER TO A J-BOX MOUNTED TO THE TOP OF THE STRUCTURAL MEMBER. ROUTE NM FLEX FROM J-BOX TO FIRST TYPE H LUMINAIRE.
6. THE ABUTMENT, PEDESTRIAN TRESTLE, GANGWAY, AND FLOAT ARE NOT ENTIRELY SHOWN. SEE MARINE DRAWINGS, PLANSET A.
7. NEW 24" X 24" X 12" NEMA 4X STAINLESS STEEL ENCLOSURE. HOFFMAN A24H2412SS6LP3PT WITH A24P24SS6 BACK PANEL. MOUNT TO UNISTRUT SECURED TO FLOAT SUPPORT STRUCTURE. PROVIDE WITH A HINGED COVER AND A 1/2" DRAIN HOLE. MOUNT TOP OF ENCLOSURE 6'-6" ABOVE FLOAT DECK. PROVIDE POWER DISTRIBUTION BLOCKS (SQUARE D CLASS 9080, TYPE LB) WITH CLEAR COVERS. TERMINATE ALL CONDUCTORS IN ALL CABLES ON BLOCKS. FEED EQUIPMENT ON FLOAT FROM POWER DISTRIBUTION BLOCKS. CIRCUIT AS SHOWN. SEE SHEETS E3, E4, E11, E12, E13, E14, E15, AND E16.

NOTES:

8. NEW 24" X 24" X 12" NEMA 4X STAINLESS STEEL ENCLOSURE. HOFFMAN A24H2412SS6LP3PT WITH A24P24SS6 BACK PANEL. MOUNT TO UNISTRUT SECURED TO FLOAT SUPPORT STRUCTURE. PROVIDE WITH A HINGED COVER AND A 1/2" DRAIN HOLE. MOUNT TOP OF ENCLOSURE 4' ABOVE FLOAT DECK. PROVIDE POWER DISTRIBUTION BLOCKS (SQUARE D CLASS 9080, TYPE LB) WITH CLEAR COVERS. TERMINATE ALL CONDUCTORS IN ALL CABLES ON BLOCKS. FEED EQUIPMENT ON FLOAT FROM POWER DISTRIBUTION BLOCKS. CIRCUIT AS SHOWN. SEE SHEETS E3, E4, E11, E12, E13, E14, E15, AND E16.
9. NEW 10" X 8" X 4" NEMA 4X STAINLESS STEEL ENCLOSURE. HOFFMAN A10G8CHNFSS6 WITH A10P8SS BACK PANEL. MOUNT TO UNISTRUT SECURED TO FLOAT STRUCTURAL SUPPORT. PROVIDE WITH A HINGED COVER AND A 1/2" DRAIN HOLE.
10. NEW (1) 3"C, 16 COND. NO. 10 TYPE SOOW CABLE (AIWC NO. 32244) LTG & MAINT. REC
    (1) 3"C, 4 NO. 2/0 TYPE G CABLE (AIWC NO. 38425) SHORE POWER
    (1) 3"C, 4 NO. 4 TYPE G CABLE (AIWC NO. 38421) HYDRAULIC POWER UNIT
    (1) 2"C, (2) 4 PR. CAT 5 CABLE (TELEPHONE)
    (2) 3"C, SPARE
11. THE THREE ENCLOSURES SHOWN BELOW (SEE NOTES 7, 8, & 9) SHALL BE MOUNTED ON BRIDGE SIDE OF PEDESTRIAN PLATFORM. THEY ARE SHOWN ON THE VESSEL SIDE FOR EASE OF UNDERSTANDING.

SHEET NOTES:

- (1) 2"C, 4 NO. 2/0 & 1 NO. 6 GND (SHORE TIE)
- (1) 2"C, 4 NO. 4 & 1 NO. 8 GND (HYD. PWR UNIT PWR FEED)
- (1) 3/4"C, 2 NO. 10 & 1 NO. 12 GND (MAINTENANCE REC & TYPE H LUMINAIRE IN SHORE TIE ENCLOSURE)
- (1) 3/4"C, 4 NO. 10 & 1 NO. 12 GND (LTG)
- (1) 3/4"C, 2 NO. 10 & 1 NO. 12 GND (LTG)
- (1) 3/4"C, (2) 4 PR. CAT 5 CABLE (TELEPHONE REC)
- (1) 2"C, (HYD POWER UNIT CONTROL PANEL)
- (1) 1"C, CONTROL CONDUCTORS (HYD POWER UNIT CONTROL STATION)
- (1) 3/4"C, (LIMIT SWITCHES)
- (1) 1-1/2"C, (SHIP POWER REC.)



ELEVATION VIEW - GANGWAY AND FLOAT
(LOOKING FROM RAMP TOWARD BRIDGE)
NO SCALE

DO NOT SCALE FROM THESE DRAWINGS. USE DIMENSIONS SHOWN

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DRAWN BY: NKG

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COFFMAN FERRY TERMINAL
PROJECT NO. 67844

ELEVATION VIEW - GANGWAY AND FLOAT

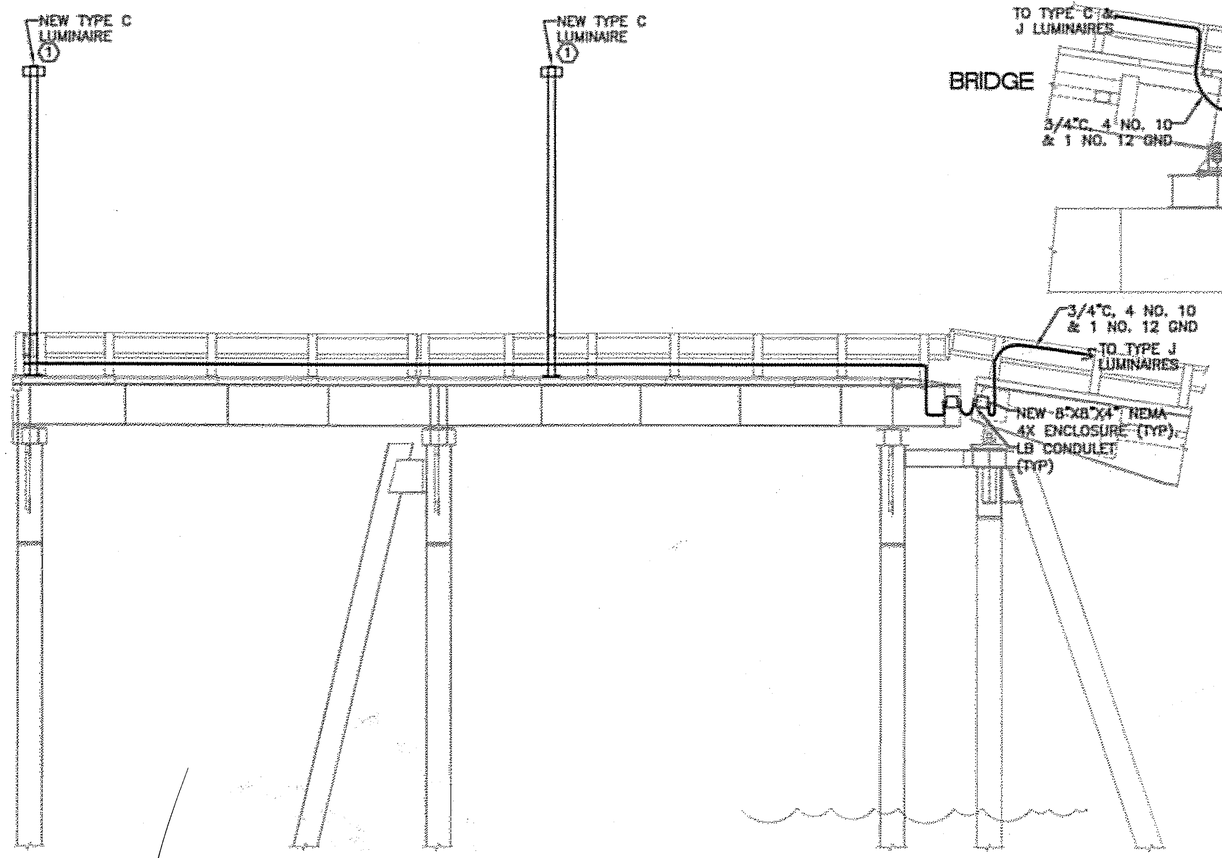
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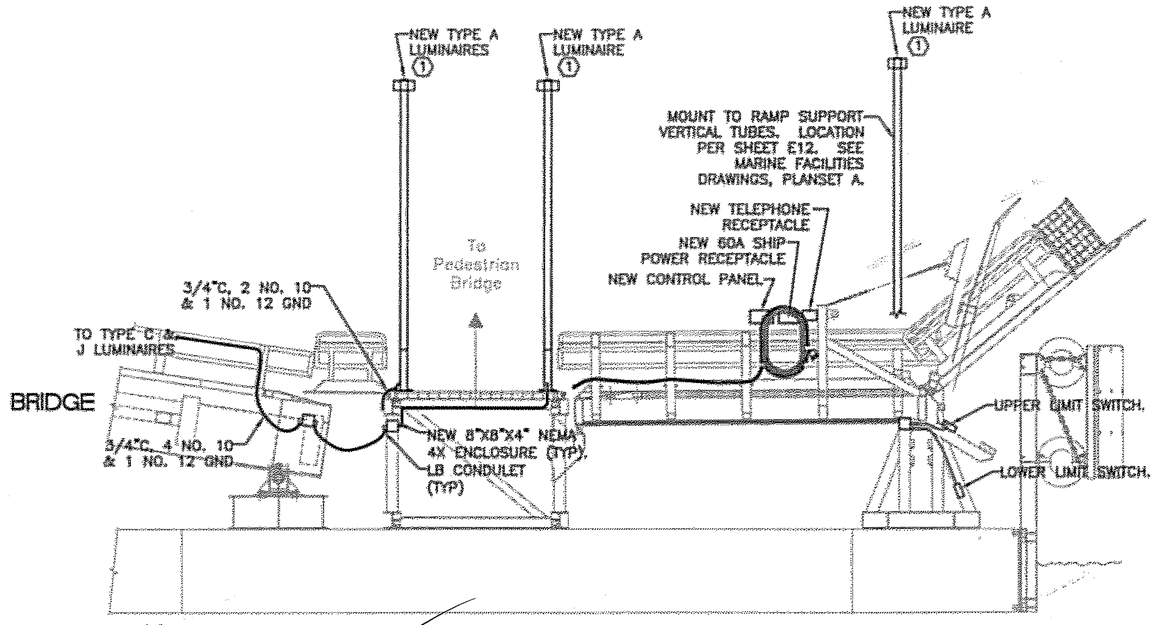
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NOTES:

(1) NEW LIGHT POLE. SEE SHEET E19 FOR DETAILS. MOUNT TO PRE-WELDED 1" ANCHOR BOLTS ON MARINE STRUCTURE. BASE PLATE PER DETAIL ON SHEET E19. SEE MARINE FACILITIES DRAWINGS, PLANSET A. FEED POLE ON FLOAT WITH LB CONDULET ADJACENT TO HAND HOLE.



ELEVATION VIEW - APPROACH & BRIDGE
NO SCALE



ELEVATION VIEW - FLOAT
NO SCALE

BRIDGE

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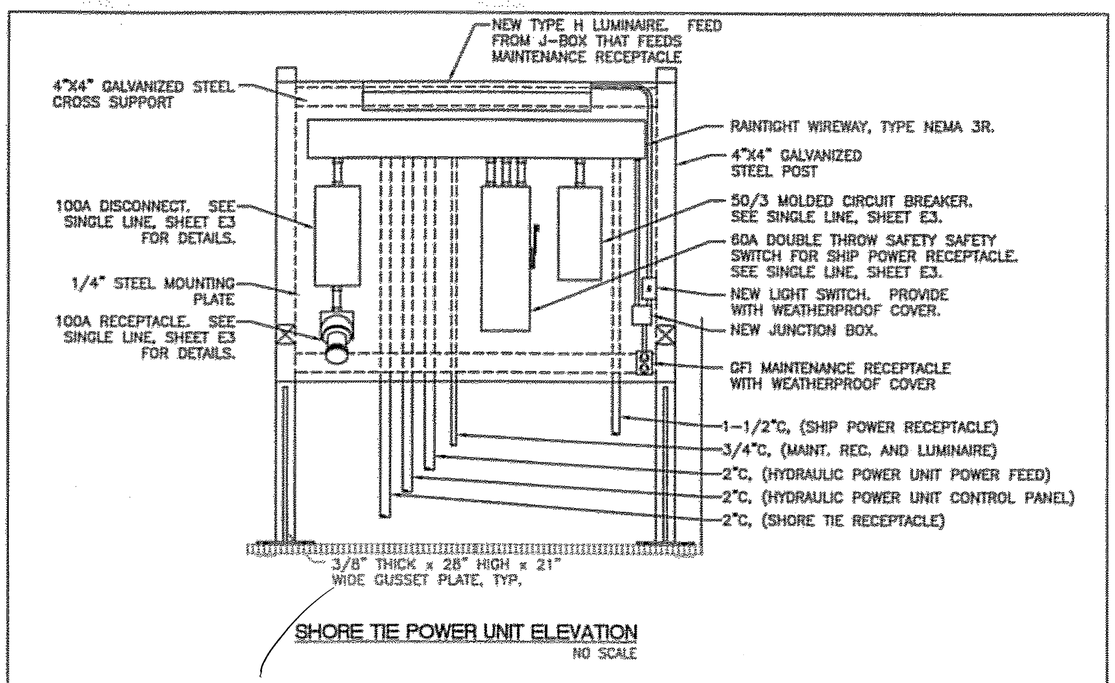
COFFMAN FERRY TERMINAL
PROJECT NO. 67844

ELEVATION VIEW - APPROACH, BRIDGE, AND FLOAT

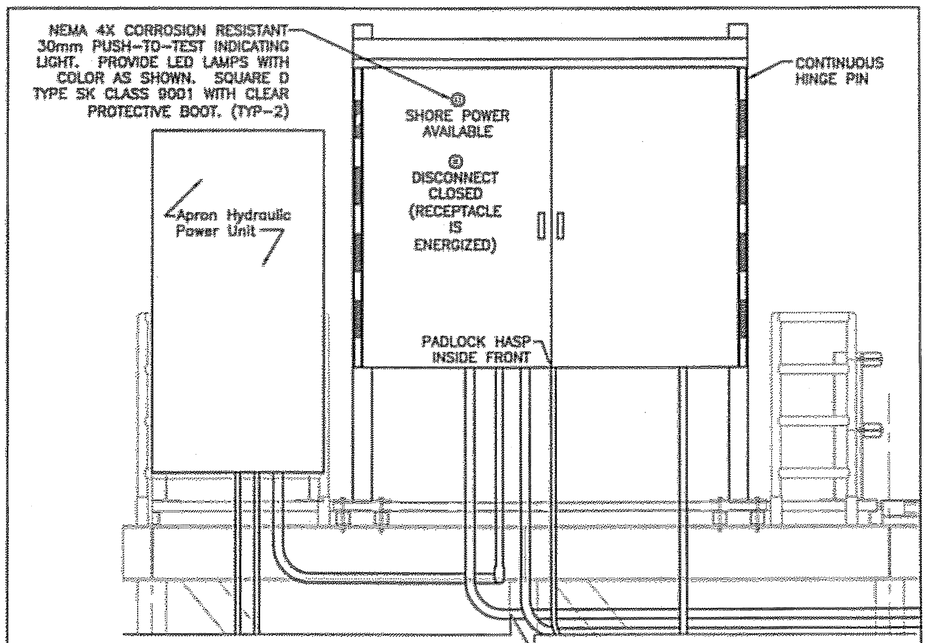
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SHORE TIE POWER UNIT ELEVATION
NO SCALE

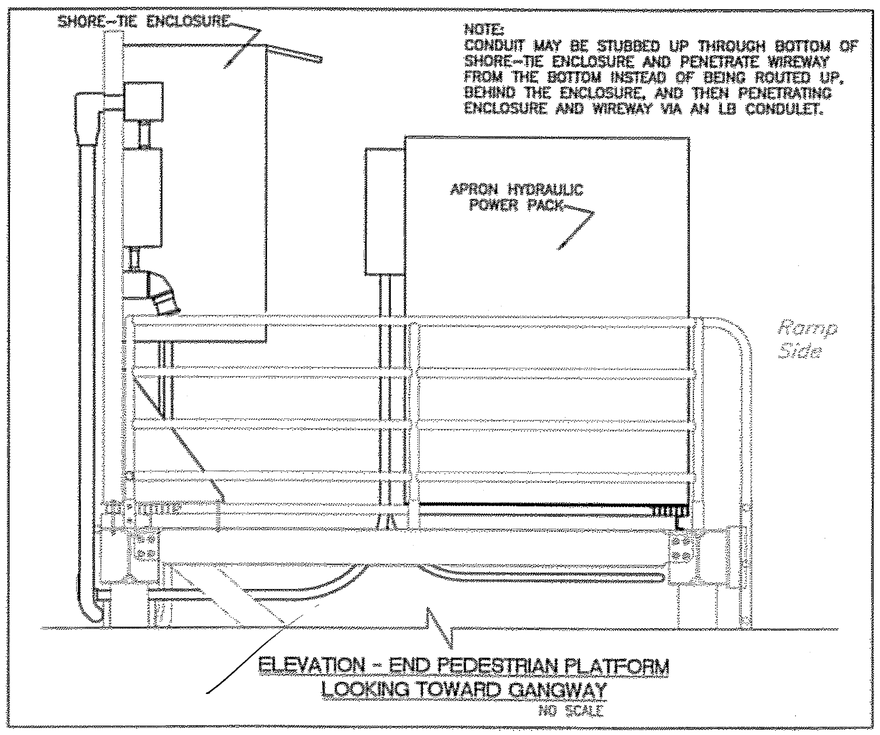


ELEVATION - END PEDESTRIAN PLATFORM
LOOKING TOWARD BRIDGE
NO SCALE

NOTES:

1. DRILL 6" DIAMETER HOLE IN BOTTOM OF SHORE TIE ENCLOSURE AND PUT RUBBER GROMMET AROUND IT.

2. PROVIDE A CONTROL TRANSFORMER WITH PRIMARY & SECONDARY FUSING, RELAYS, INDICATING LIGHTS, AND OTHER CONTROLS AS REQUIRED TO SHOW WHEN THE 100A DISCONNECT IS CLOSED AND TO SHOW WHEN SHORE POWER IS AVAILABLE ON THE LINE SIDE OF THE DISCONNECT.



ELEVATION - END PEDESTRIAN PLATFORM
LOOKING TOWARD GANGWAY
NO SCALE

DO NOT SCALE FROM THESE DRAWINGS. USE DIMENSIONS SHOWN

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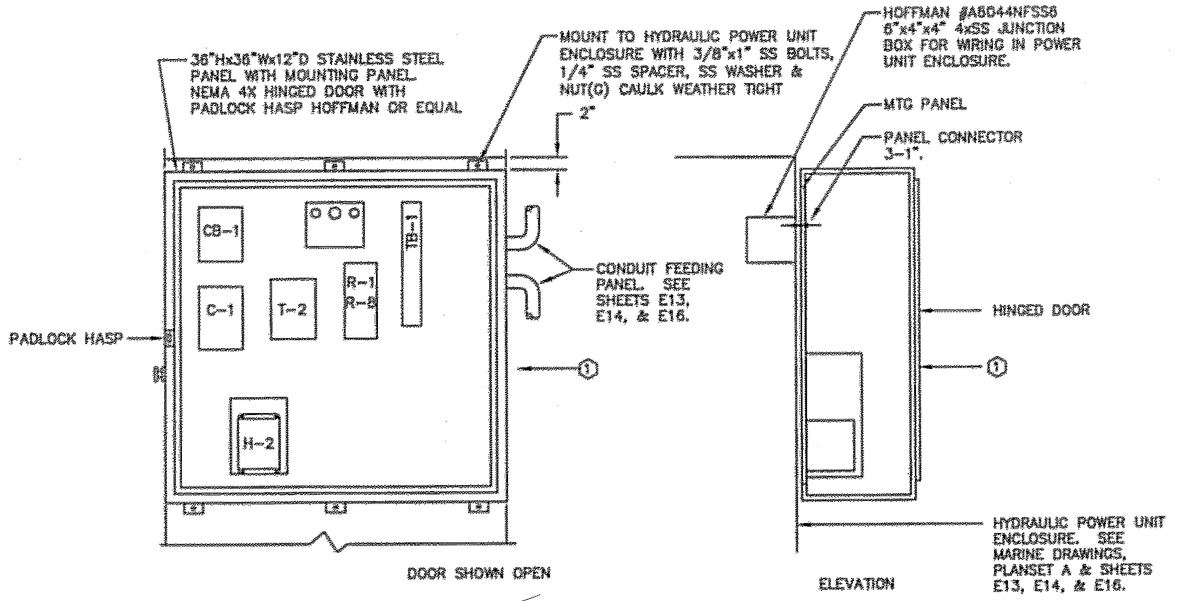
COFFMAN FERRY TERMINAL
PROJECT NO. 67844

ELEVATION VIEW - POWER UNIT

REVISIONS NO.	DATE	DESCRIPTION	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			67844	2005	E16	20

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HYDRAULIC POWER UNIT CONTROL PANEL

NO SCALE

NOTES:

1. INSTALL 1" RIGID FIBER GLASS FOIL BACKED INSULATION ON ALL INTERIOR SURFACES WITH LIQUID NAILS.
2. POWER MOTOR, OIL HEATER, & SOLENOIDS IN POWER UNIT ENCLOSURE PER SCHEMATIC DIAGRAM SHEET E-18.
3. ALL WIRING IN POWER UNIT ENCLOSURE SHALL BE IN CONDUIT.

NOTES (CONTINUED):

4. ROUTE THE 3/4"C FOR THE LIMIT SWITCHES FROM CONTROL PANEL BACK TO RAMP HINGE, FLEX TO J-BOX ON RAMP THEN FORWARD TO J-BOXES ADJACENT EACH LIMIT SWITCH. FLEX TO EACH LIMIT SWITCH. LENGTHEN & ROUTE FLEX TO ALLOW FULL MOTION OF RAMP AND APRON.

DO NOT SCALE FROM THESE DRAWINGS. USE DIMENSIONS SHOWN

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CHECKED BY: HGH
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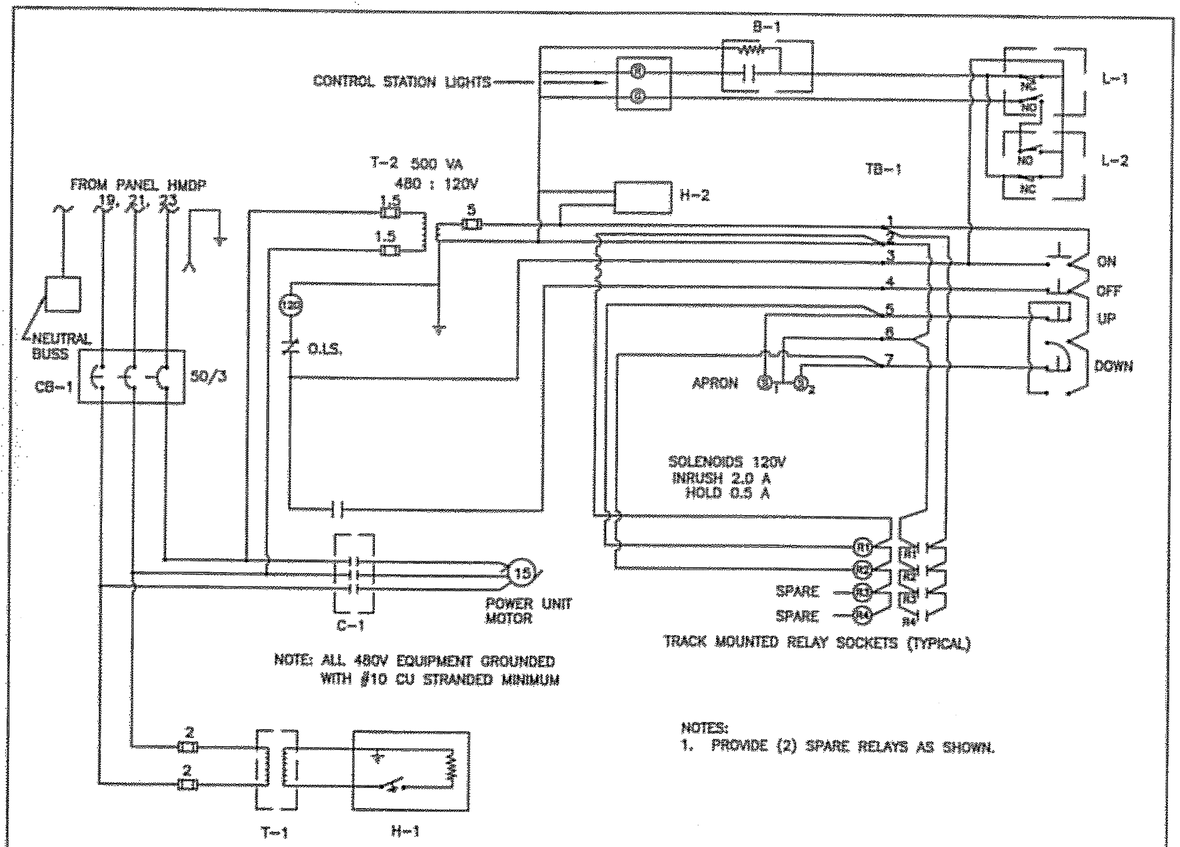
COFFMAN FERRY TERMINAL
PROJECT NO. 67844

ELEVATION VIEW - POWER UNIT CONTROL PANEL

REVISIONS NO.	DATE	DESCRIPTION	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			67844	2005	E17	20

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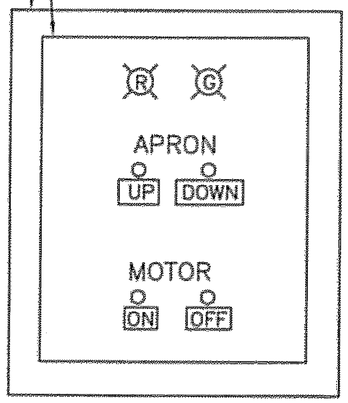


NOTES:
1. PROVIDE (2) SPARE RELAYS AS SHOWN.

HYDRAULIC POWER UNIT + CONTROL PANEL SCHEMATIC DIAGRAM
NO SCALE

CB-1	CIRCUIT BREAKER 480V-50/3 SQ D CLASS 650 #FA34050
C-1	MOTOR STARTER SQ D CLASS 8538 NEMA SIZE 2 #SDO-1 V02 F4T -3 O/L & NO/NC
T-1	TRANSFORMER 480-120V 750 VA
T-2	TRANSFORMER 480-120V 500 VA
R	RED PILOT LIGHT, 30 MM NEMA 4X PUSH TO TEST, CORROSION RESISTANT.
G	GREEN PILOT LIGHT
B-1	FLASHER RELAY DAYTON 1A386 120V
L-1&L-2	LIMIT SWITCH DPDT NEMA 4X ON HYDRAULIC CYLINDER ON APRON LIFT ASSEMBLY (SEE MARINE, PLANSET A).
H-1	OIL HEATER 500W 120V CHROMALOX ARTMO-500E2 WITH THERMOSTAT
H-2	ELECTRIC HEATER 200W 120V HOFFMAN D-AH2001A WITH THERMOSTAT SET AT 40°F
R	RELAYS SQD CLASS 8501 DPDT 10A-120V #RS42M1P14, NR42B SOCKET & NT13 TRACK & NT10 ENDS

NEMA 4X TYPE 316L STAINLESS STEEL ENCLOSURE WITH PADLOCKABLE DOOR AND INNER NEMA 4X TYPE 316L SS ENCLOSURE WITH CONTROLS. SIZE OUTER ENCLOSURE FOR INNER ENCLOSURE AND ALSO TO MOUNT THE OPERATING INSTRUCTIONS ON THE INSIDE OF THE OUTER ENCLOSURE DOOR. THE LABELS AND INSTRUCTIONS SHALL USE A TEXT SIZE OF 3/4" HIGH MINIMUM. ENGRAVE THE TEXT ON A PHENOLIC PLATE. MOUNT THE CONTROLS ON A SEPARATE NEMA 4X ENCLOSURE THAT IS MOUNTED INSIDE THE OUTER ENCLOSURE. CONNECT THE CONDUIT TO THE BOTTOM OF THE INSIDE ENCLOSURE THROUGH A HOLE IN THE BOTTOM OF THE OUTER ENCLOSURE. MOUNT THE OUTER ENCLOSURE TO (2) 4" SQUARE GALV. STEEL POSTS THAT ARE WELDED TO THE STRUCTURE. SEE SHEETS E12 & E13 FOR MOUNTING LOCATION.



OPERATING INSTRUCTIONS
1) TURN MOTOR ["ON"]
2) LOWER APRON, PUSH ["DOWN"] UNTIL GREEN LIGHT IS ON.
3) TRANSFER TRAFFIC
4) RAISE APRON ["UP"] TO APRON STORED POSITION.
5) NOTE: TURN MOTOR ["OFF"] WHEN CONTROLS NOT ATTENDED.

CONTROL STATION
NO SCALE

NOTES:
1. PROVIDE CORROSION RESISTANT NEMA 4X 30MM PUSH-TO-TEST INDICATING LIGHTS. PROVIDE THE LED LAMPS WITH THE COLOR AS SHOWN. PROVIDE SQUARE D TYPE SK, CLASS 9001 INDICATING LIGHTS. PROVIDE WITH CLEAR PROTECTIVE BOOTS.
2. PROVIDE CORROSION RESISTANT NEMA 4X 30MM PUSHBUTTONS WITH CLEAR PROTECTIVE BOOTS. PROVIDE SQUARE D TYPE SK CLASS 9001 PUSHBUTTONS.

CONTROL DIAGRAM LEGEND

	ELECTRIC MOTOR
J	JUNCTION
E	EXISTING
X	REMOVE
C	CONNECT
2	NOTE 2
	MAGNETIC STARTER
	DISCONNECT
1	EQUIPMENT NUMBER
S_3	HYDRAULIC SOLENOID #3
	RELAY CONTACT NORMALLY OPEN
	RELAY CONTACT NORMALLY CLOSED
	NEW CONDUIT & WIRE 3/C
	EXISTING CONDUIT & WIRE
	EXISTING CONDUIT & NEW WIRE 3/C
OL	OVERLOAD PROTECTION
GRS	GALVANIZED RIGID STEEL
	RECEPTACLE

DO NOT SCALE FROM THESE DRAWINGS. USE DIMENSIONS SHOWN.

DESIGNED BY: HDH
CHECKED BY: HDH
DRAWN BY: NKG

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

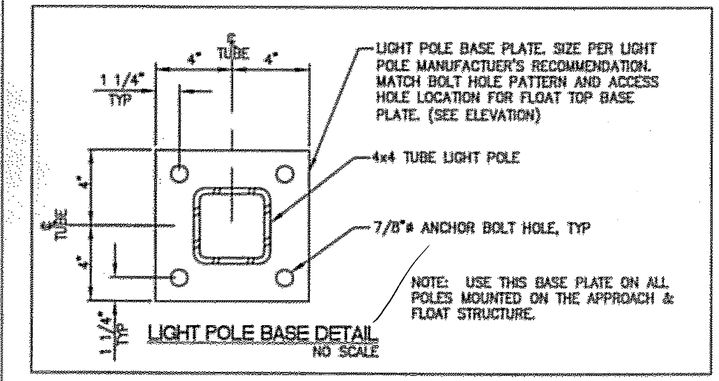
COFFMAN FERRY TERMINAL
PROJECT NO. 67844

HYDRAULIC POWER UNIT CONTROL SCHEMATIC

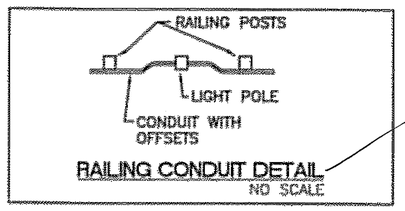
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			67844	2005	E18	20

V. HDH 2/07

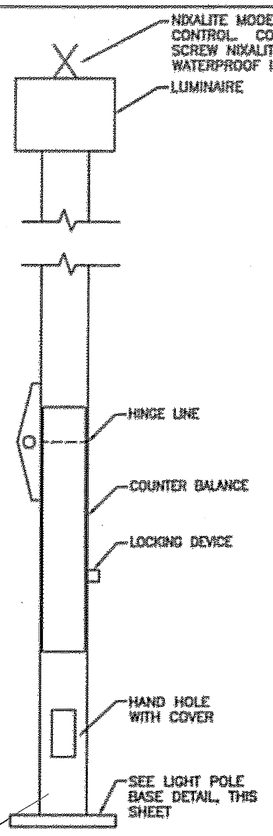
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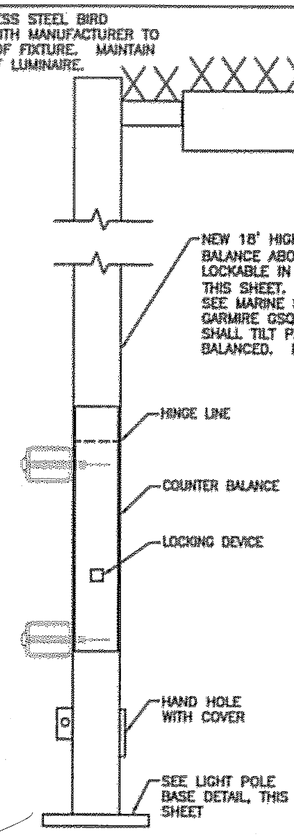
LIGHT POLE BASE DETAIL
NO SCALE



RAILING CONDUIT DETAIL
NO SCALE



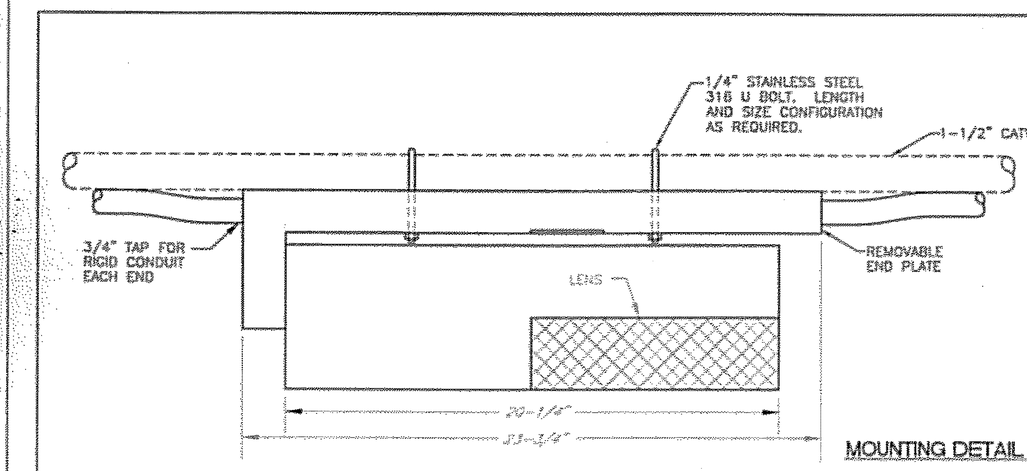
TYPE A & C LUMINAIRE MOUNTING DETAIL - FRONT VIEW
NO SCALE



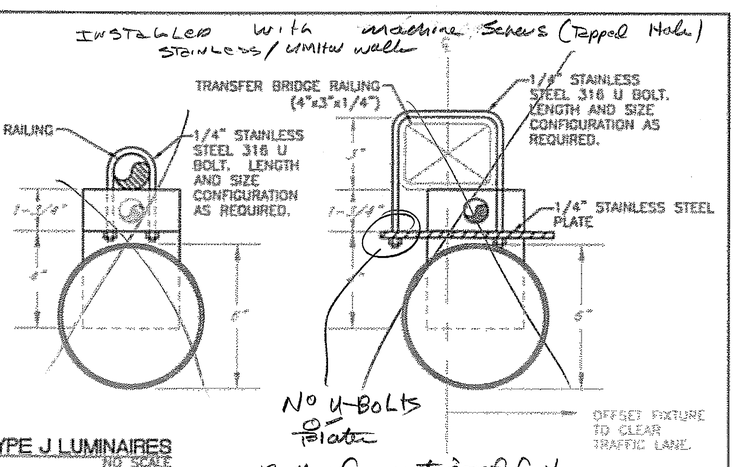
TYPE A & C LUMINAIRE MOUNTING DETAIL - SIDE VIEW
NO SCALE

NOTE:

1. ORIENT THE LUMINAIRE AS SHOWN, SHEETS E1, E12, & E13.
2. PROVIDE A FULL PENETRATION WELD AROUND BOTTOM OF THE BASE PLATE TO THE POLE SHAFT. WELD POLE SHAFT TO TOP OF BASE PLATE ON ALL FOUR SIDES.
3. POLE SHALL BE HOT DIPPED GALVANIZED AND SHALL BE PAINTED LIGHT GREY WITH A TNEMEC SYSTEM FOR PAINTING GALVANIZED STEEL.
4. PROVIDE BUSS HEY SERIES IN-LINE FUSE KITS W/INSULATING BOOTS IN BASE OF POLE AT HAND HOLE. FUSE LIGHTING POWER CONDUCTORS. PROVIDE BUSS KTK-R FUSES.
5. SEE SITE PLANS FOR LUMINAIRE LOCATIONS, SHEETS E1, E12, & E13.
7. PROVIDE WITH BASE PLATE AS SHOWN AND PER MARINE DRAWINGS, PLANSET A.
8. FOR TYPE C LUMINAIRES, FEED POLES WITH GRS CONDUIT SUPPORTED BY UNISTRUT MOUNTED TO RAILING POSTS. SEE MARINE DRAWINGS, PLANSET A FOR DETAIL. OFFSET THE CONDUIT TO ENTER THE POLE ON EACH SIDE, PROVIDE AN ACCESS HOLE AND COVER ON FRONT OF POLE AT THE SAME HEIGHT. SEE DETAIL ABOVE. FOR TYPE A LUMINAIRES, ROUTE CONDUIT UNDERNEATH PEDESTRIAN PLATFORM ON MARINE STRUCTURAL SUPPORTS. AT EACH TYPE A LIGHT POLE, STUB CONDUIT UP NEXT TO LIGHT POLE BASE AND PENETRATE POLE WITH AN LB CONDULET AT SAME LEVEL AS HANDHOLE COVER ON POLE.



MOUNTING DETAIL - TYPE J LUMINAIRES
NO SCALE



GENERAL REQUIRMENTS FOR ALL POLES ON BRIDGE, RAMP, AND FLOAT

1. SIZE POLES FOR SUSTAINED WINDS OF 120 MPH WITH GUST TO 150 MPH. POLE SIZES SHOWN ARE A MINIMUM.
2. PROVIDE POLE BASE PER DETAIL, THIS SHEET.
3. PROVIDE A FULL PENETRATION WELD AROUND BOTTOM OF THE BASE PLATE TO THE POLE SHAFT. WELD POLE SHAFT TO TOP OF BASE PLATE ON ALL FOUR SIDES.
4. ALL POLES SHALL BE HOT DIPPED GALVANIZED AND SHALL BE PAINTED LIGHT GREY WITH THE SYSTEM 8 PAINTING SYSTEM SPECIFIED IN SPECIFICATION SECTION 513. PROVIDE A TNEMEC SYSTEM (OR EQUAL) FOR PAINTING GALVANIZED STEEL.

DO NOT SCALE FROM THESE DRAWINGS. USE DIMENSIONS SHOWN.

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CHECKED BY: HGH
DRAWN BY: NKG

STATE OF ALASKA
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COFFMAN FERRY TERMINAL
PROJECT NO. 67844

POLE & LUMINAIRE MOUNTING DETAILS

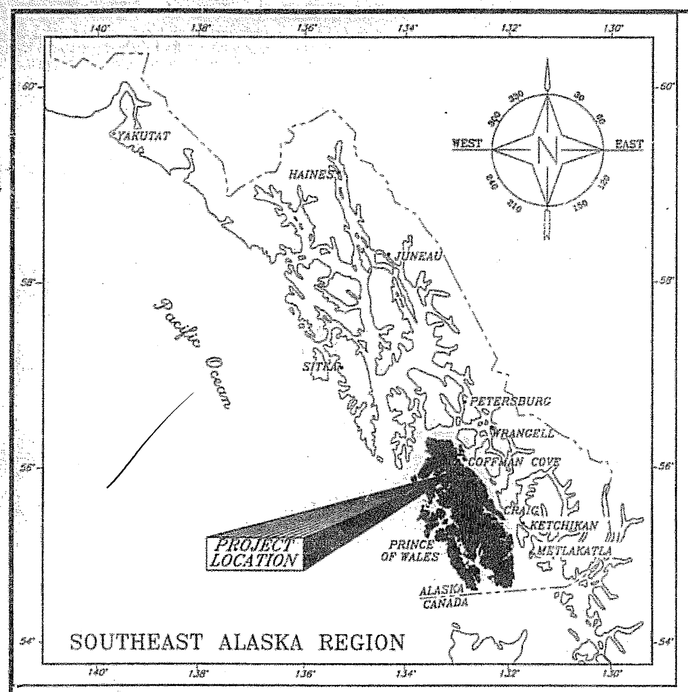
See Attachment for Sheet E20/20

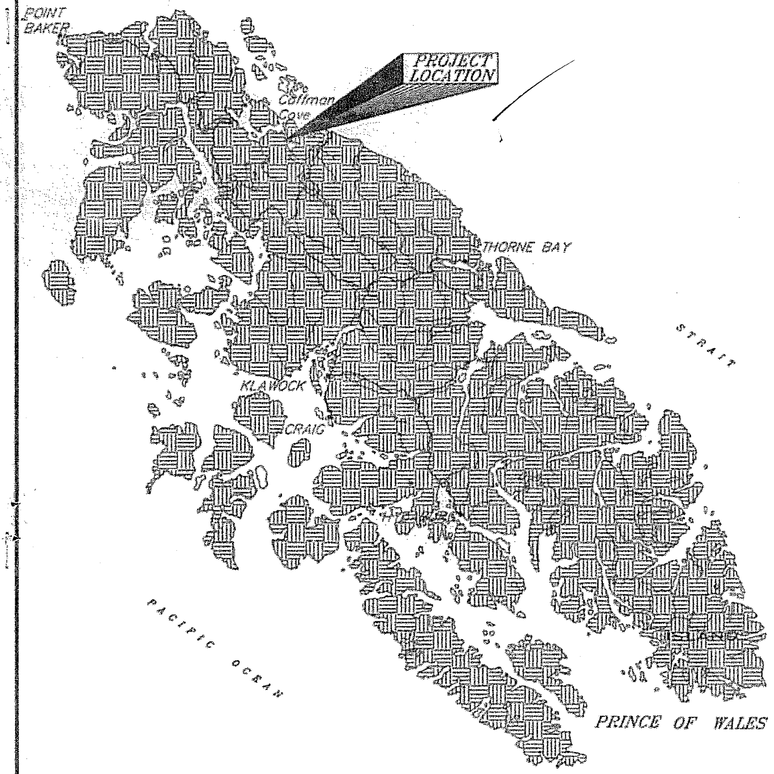
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AS-BUILT PLANS





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AND PUBLIC FACILITIES
SOUTHEAST REGION

FOR THE

City of Coffman Cove

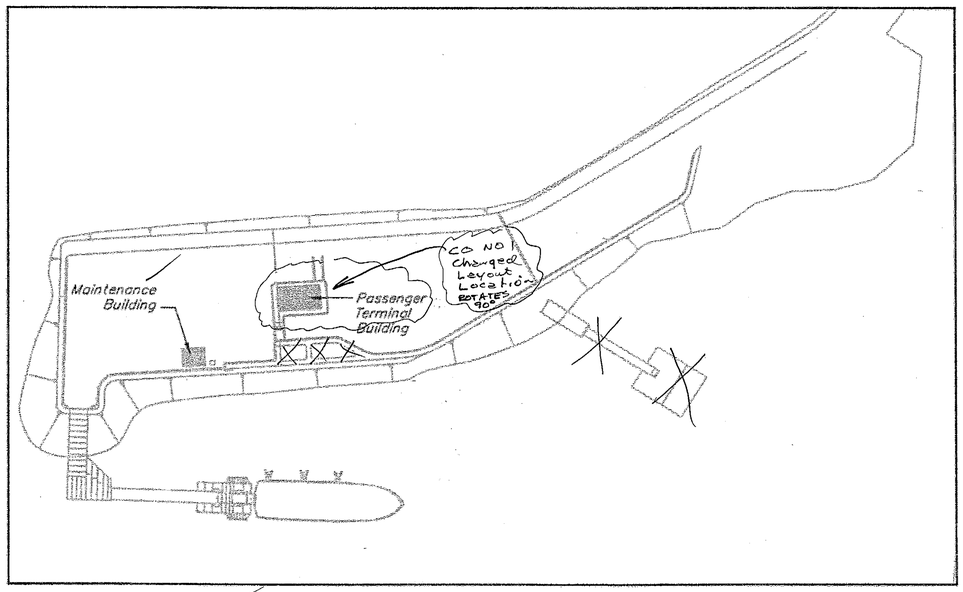
A PROJECT AT

COFFMAN COVE, ALASKA

Planset F

PASSENGER TERMINAL & MAINTENANCE BUILDINGS

PROJECT No. 67844 ~ STP-0003(66)



Proposed Building Locations

INDEX OF SHEETS

SHEET NO.	DESCRIPTION
1	Title Sheet
A0.1	Drawing Symbols, Abbreviations, Code Analysis, Notes
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A2.2	Roof Plan
A2.3	Door & Room Finish Schedules, Window Types
A3.1	West & North Exterior Elevations
A3.2	East & South Exterior Elevations
A3.3	Building Sections
A4.1	Enlarged Plans
A5.1	Interior Elevations
A6.1	Reflected Ceiling Plan
A8.1	Details
A8.2	Details & Wall Sections
A8.3	Details
A9.1	Interior Details
A10.1	Maintenance Building - Plan, Elevations, Sections, Schedules
A10.2	Maintenance Building - Option 1 Wall Section
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S1.0	Structural Notes
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M1	Mechanical Schedules and Legend
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M6	Maintenance Building Plumbing and HVAC Plans
E-1	Power Plan
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E-3	Lighting Plan

AS-BUILTS

CONTRACTOR - SE ROADBUILDERS
PE- GREG BROWNING
Begin- 06/05
END - 08/06

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND
PUBLIC FACILITIES
SOUTHEAST REGION

APPROVED Jarled Beedle Date 3/16/05
Regional Preconstruction Engineer
Patrick J. Kemp

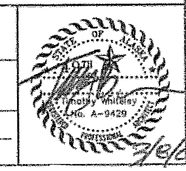
APPROVED for Mary L. Paxton Date 3/16/05
Director, S.E. Region
Gary L. Paxton

PROJECT NUMBER: 67844

DATE: FEBRUARY 2005

SHEET 1 OF 36

WELSH WHITELEY ARCHITECTS, LLC
320 Dock Street #215
Ketchikan, Alaska 99901
(907) 225-2412 Voice
(907) 225-2422 Fax



3/9/05

V GB 2/07

DRAWING SYMBOLS

Grid Lines

Detail Bubble
Drawing Number
Sheet Number

Building Section
Direction of View
Drawing Number
Sheet Number

Partial Building Section
Direction of View
Drawing Number
Sheet Number

Wall Type

Window Type

Door Type

Datum Point, Elevation

Match Line

Equipment Symbol

Revision Number & Cloud

Centerline

Property Line

Wall Construction

Electrical Panel

Illuminated Exit Sign
Surface Mounted - Ceiling.

Illuminated Exit Sign
Surface Mounted - Wall

Point of Vertical Dimension

Wall Mounted Dry-Chem. Fire Extinguisher

Thermostat

ABBREVIATIONS

AB	Anchor Bolt
ACOUS.	Acoustical
ACT	Acoustical Tile
ADA.	Americans with Disabilities Act
ADJ.	Adjustable
AFF	Above Finished Floor
AGGR.	Aggregate
AL., ALUM.	Aluminum
ANOD.	Anodized
APPROX.	Approximate
ARCH.	Architectural
BD.	Board
BTWN.	Between
BITUM.	Bituminous
BLDG.	Building
BLK.	Block
BLKG.	Blocking
BM.	Beam
BOT.	Bottom
CAB.	Cabinet
CHAMF.	Chamfer
CIP	Cast in Place
CLG.	Ceiling
CLO.	Closet
CLR.	Clear
COL.	Column
CONC.	Concrete
CONN.	Connection
CONSTR.	Construction
CONT.	Continuous
CORR.	Corridor
CPT.	Carpet
CSS	Clear Sanding Sealer
CTSK.	Countersunk
CT	Ceramic Tile
CTR.	Center
DTL.	Detail
DEMO.	Demolition
DF	Drinking Fountain
DIA.	Diameter
DIAG.	Diagonal
DIM.	Dimension
DISP.	Dispenser
DN	Down
DR.	Door
DS.	Downspout
DW	Dishwasher
DWG.	Drawing
E.	East
EA.	Each
EXP. JT.	Expansion Joint
ELEC.	Electrical
ELEV.	Elevator, Elevation
EM	Entry Mat
EMER.	Emergency
ENCL.	Enclosure
EQ.	Equal
EQUIP.	Equipment
EXIST.	Existing
EXP.	Expanded, Expansion
EXT.	Exterior
FA	Fire Alarm
FD	Floor Drain
FDN.	Foundation
FE	Fire Extinguisher
F.E.C.	Fire Extinguisher Cabinet
FF	Factory Finish
FIN.	Finish
FLR.	Floor
FLASH.	Flashing
FLUOR.	Fluorescent
FOC	Face Of Column, or Concrete
FOF	Face Of Finish
FOS	Face Of Studs
FRP	Fiberglass Reinforced Panel
FT.	Foot or Feet
FTG.	Footing
GA.	Gauge
GALV.	Galvanized
Glu-Lam	Glue-Laminated
GL.	Glass, Glazing
GWB	Gypsum Wall Board
GYP.	Gypsum
HB	Hose Bibb
HC	Hollow Core
HD.	Head
HDR.	Header
HM	Hollow Metal
HORIZ.	Horizontal
HR.	Hour
HT.	Height
HTG.	Heating
H.V.A.C.	Heat/Ventilation/Air Conditioning
HW	Hot Water
HWT	Hot Water Tank
ID	Inside Diameter
IHM	Insulated Hollow Metal
IN.	Inch
INC.	Including
INSUL.	Insulation
INT.	Interior
JB	Junction Box
JC	Janitor's Closet
KIT.	Kitchen
L.	Length, Long
LAM	Laminate, Laminated
LAV.	Lavatory
LF	Lineal Feet
LH	Left Hand
LT	Light
MATL	Material
MAX.	Maximum
MB	Machine Bolt
MECH.	Mechanical
MEMB.	Membrane
MEZZ.	Mezzanine
MTL.	Metal
MFR.	Manufacturer
MIN.	Minimum
MIR.	Mirror
MISC.	Miscellaneous
MTD.	Mounted
N.	North
NIC	Not In Contract
NO., (#)	Number
NOM.	Nominal
NTS	Not To Scale
OC	On Center
OD	Outside Diameter
OFF.	Office
OH	Overhang
OPNG	Opening
O.T.S.	Open to Structure
OPNG.	Opening
OPP.	Opposite
P.BD.	Particle Board
PERF	Perforated
PL	Property Line, Plate
P. LAM.	Plastic Laminate
PLYWD.	Plywood
PNL	Panel
PNT	Paint
PR.	Pair
PSF	Pounds per Square Foot
PSI	Pounds per Square Inch
PT	Paint
PT.	Pressure Treated
R	Riser
RAD.	Radius
RBR	Rubber
REF.	Reference, Refrigerator
REFL.	Reflected
REGTR.	Register
REINF.	Reinforced
REQ.	Required
RESIL.	Resilient
RH	Right Hand
RM.	Room
RO	Rough Opening
R.O.M.	Right of Way
RT	Resilient Tile
S.	South
SC	Solid Core
SCHED.	Schedule
SEAL.	Sealant
SECT.	Section
SHR.	Shower
SHT.	Sheet
SIM.	Similar
SPEC.	Specification
SQ.	Square
SQ. FT.	Square Foot (Feet)
SQ. IN.	Square Inch (es)
SST.	Stainless Steel
STA.	Station
STD.	Standard
STL.	Steel
STOR.	Storage
STRUCT.	Structural, Structure
SUSP.	Suspended
SYM.	Symmetrical
S.V.	Sheet Vinyl
T., TRD.	Tread
T.&G.	Tongue and Groove
TEL.	Telephone
TEMP.	Tempered
TER.	Terrazzo
THRESH.	Threshold
T.JT.	Tooled Joint
TOS	Top of Slab
T.S.	Tube Steel
TYP.	Typical
U.	Underwriters' Laboratories
UNFIN.	Unfinished
UON	Unless Otherwise Noted
VT	Vinyl Tile
VERT.	Vertical
W.	West
W/	With
WC	Water Closet
WD.	Wood
WDO.	Window
W/O	Without
WL	Water Line
WT.	Weight
WWF	Welded Wire Fabric
WWM	Welded Wire Mesh

CODE ANALYSIS

CODE: International Building Code - 2003

A. USE AND OCCUPANCY CLASSIFICATION (Chapter 3):

Proposed: A-3: Ferry Passenger Waiting Terminal

B. TYPE OF CONSTRUCTION (Chapter 6):

Proposed: V-B

Type V-B Description: Structural Elements, Exterior Walls and Interior Walls may be of Any Material Permitted by Code. (Section 602.3 & Table 601).

Fire Resistive Rating for Building Elements (Table 601):

Structural Frame:	0
Bearing Walls:	
Exterior:	0
Interior:	0
Floor Construction:	0
Roof Construction:	0

C. ALLOWABLE HEIGHT (Table 503):

Proposed: 1 Story / 18'-0"

Allowed (A-3): 1 Story (40')

D. ALLOWABLE FLOOR AREA (Table 503):

Proposed: 1,742 s.f. - Interior

Allowed (basic) (A-3): 6,000 sf per Floor

E. OCCUPANT LOAD CALCULATIONS: (Table 1003.2.2.2)

	Occupancy	Area	Factor	Occupant Load
Waiting Area	"Assembly-Standing"	912 sf	5 net	182.4
Ticketing Area/Office	"Business"	276 sf	100 gross	2.8
Future Transit Operator Space	"Business"	174 sf	100 gross	1.7
Janitor		88 sf	300 gross	0.3
Restrooms		342 sf	-	0
			Total Building Occupant Load:	188

Elevation	Actual Distance	Rating Required
N	> 30'	0
S	> 30'	0
E	> 30'	0
W	> 30'	0

F. Fire Resistive Rating for Exterior Walls Based on Fire Separation: (Table 602):

Distance from Exterior Wall to Property Line	Required Rating (Group A-3)
Less than 5'	1 Hr.
Greater than or equal to 5', Less than 10'	1 Hr.
Greater than or equal to 10', Less than 30'	0
Greater than 30'	0

G. OTHER:

IBC 1004.2.4 - Exit Access Travel Distance = 200' maximum (without sprinkler system)
Proposed Maximum Travel Distance = 41'

Sprinkler System not required for A-3 Occupancy because (IBC 903.2.1.3):
1) Area is less than 12,000 sf.
2) Occupancy load is less than 300.
3) Fire area is on same level as exit discharge.

Fire Alarm System not required for A-3 Occupancy because occupancy load is less than 500 (IBC 907.2.1).

GENERAL NOTES

1. All work shall be done in accordance with the International Building Code - 2003 (IBC), International Fire Code - 2003 (IFC), International Mechanical Code - 2003 (IMC), Uniform Plumbing Code (UPC), and National Electrical Code - 2002 (NEC), as amended by the State of Alaska, and the Americans with Disabilities Act (ADA).

2. Contractor shall verify all site conditions and building dimensions, and locate underground Utilities or Miscellaneous Lines prior to proceeding with the Work. Any variation from the Conditions and Dimensions shown on the drawings shall be reported to the Owner's Representative for resolution prior to construction.

3. Written dimensions shall take precedence over scaled dimensions. Dimensions are to the centerline of columns, and to the face of framing on wall construction, unless otherwise noted.

PARTICIPANTS

OWNER: City of Coffman Cove
P. O. Box 18135
Coffman Cove, AK 99918
Contact: Elaine Price
(907) 329-2233 Tel. / 329-2212 Fax

ARCHITECT: Welsh Whiteley Architects, LLC
320 Dock Street #215
Ketchikan, AK 99901
Tim Whiteley, AIA
(907) 225-2412 Tel. / 225-2422 Fax

STRUCTURAL ENGINEER: STRUCTURAL SOLUTIONS
601 Alice Loop Road
Sitka, AK 99835
Tim Doggett, P.E.
(907) 747-4347 Tel.
(907) 747-4346 Fax

MECHANICAL ENGINEER: RSA ENGINEERING, INC.
2522 Arctic Blvd., #200
Anchorage, AK 99503
Mack Bergstedt, P.E. / Warren Williams
(907) 276-0521 Tel.
(907) 276-1751 Fax

ELECTRICAL ENGINEER: NORTHSTAR POWER ENGINEERING
P.O. Box 1387
Craig, AK 99921
Mike Carson, P.E.
(907) 826-2893 Tel. / Fax

SCOPE OF PROJECT

Construction of a single story passenger waiting terminal building and a maintenance building at the Coffman Cove Ferry Terminal, located on Prince of Wales Island.

WELSH WHITELEY ARCHITECTS, LLC
320 Dock Street #215
Ketchikan, Alaska 99901
(907) 225-2412 Voice
(907) 225-2422 Fax

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

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DRAWN BY: LM, TW
CHECKED BY: TW, AW

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DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
SE REGION DESIGN & ENGINEERING SERVICES DIVISION

Coffman Cove Ferry Terminal & Maintenance Buildings
Project 67844

Project Information

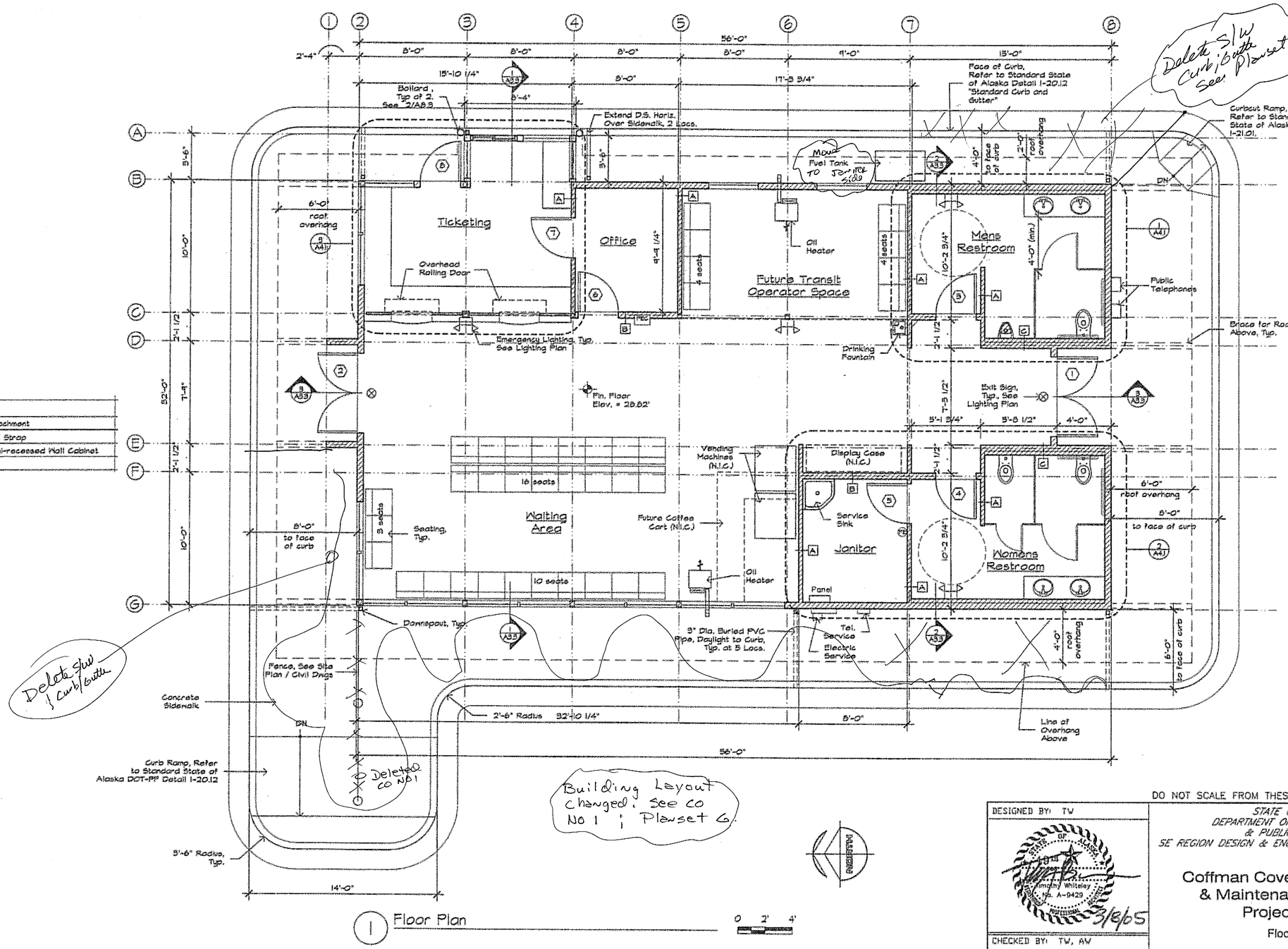
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FIRE EXTINGUISHER SCHEDULE

Designation	Description	Attachment
FE	5 lb, 3-A:40-B:C	Wall Strap
FEC	10 lb, 4-A:60-B:C	Semi-recessed Wall Cabinet



1 Floor Plan

0 2' 4'

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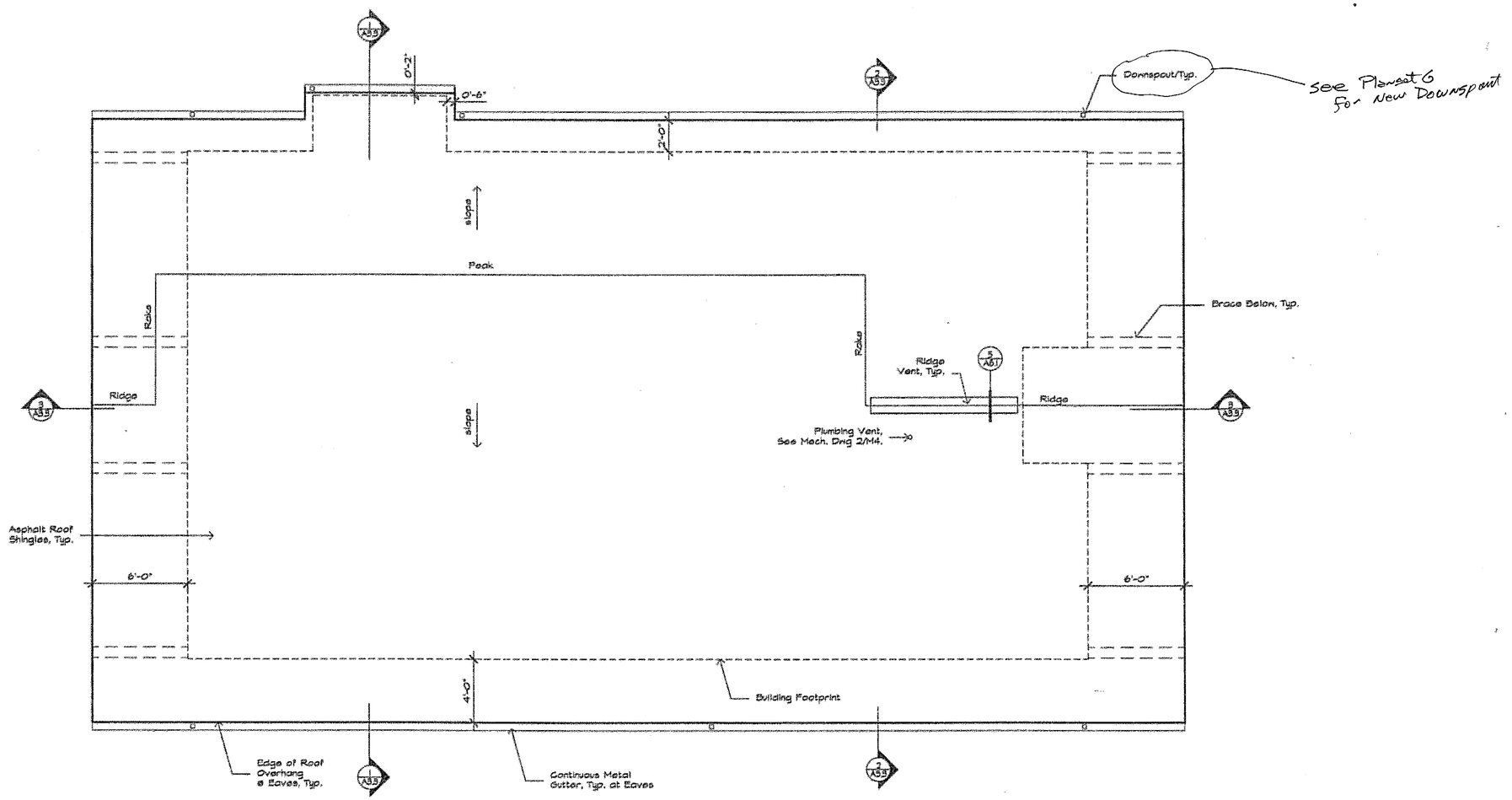
Coffman Cove Ferry Terminal & Maintenance Buildings Project 67844

Floor Plan

WELSH WHITELEY ARCHITECTS, LLC
320 Dock Street #215
Ketchikan, Alaska 99901
(907) 225-2412 Voice
(907) 225-2422 Fax

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			67844	2005	A2.1	36

✓ 2/07



1 Roof Plan

0 2' 4'

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CHECKED BY: TW, AW

DRAWN BY: LM, TW

PATH:

PLOT:

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

Coffman Cove Ferry Terminal
& Maintenance Buildings
Project 67844

Roof Plan

Timothy Whiteley No. A-9429 — 3/8/05

WELSH WHITELEY ARCHITECTS, LLC
320 Dock Street #215
Ketchikan, Alaska 99901
(907) 225-2412 Voice
(907) 225-2422 Fax

REVISIONS NO.	DATE	DESCRIPTION	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			67844	2005	A2.2	36

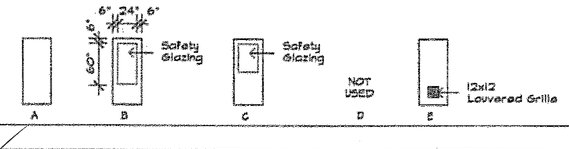
✓ 2/07

DOOR SCHEDULE

(See Sheet A0.1 for Abbreviations)

	Size (W x H)	Type	Thick.	Construction Door	Construction Frame	Details Head	Details Jamb	Details Sill	HDWR	Remarks
1	3'-0"xT-0" (pair)	B	1-3/4"	HM	HM			3/A8.3	1	
2	3'-0"xT-0" (pair)	B	1-3/4"	HM	HM			3/A8.3	1	
3	3'-0"xT-0"	E	1-3/4"	HM	HM	1/A4.1	1/A4.1	N/A	2	
4	3'-0"xT-0"	E	1-3/4"	HM	HM	1/A4.1	1/A4.1	N/A	2	
5	3'-0"xT-0"	A	1-3/4"	HM	HM	1/A4.1	1/A4.1	N/A	3	
6	3'-0"xT-0"	A	1-3/4"	WD	WD	3/A4.1	3/A4.1	N/A	4	
7	3'-0"xT-0"	C	1-3/4"	WD	WD	3/A4.1	3/A4.1	N/A	4	
8	3'-0"xT-0"	G	1-3/4"	HM	HM			3/A8.3	5	

DOOR TYPES

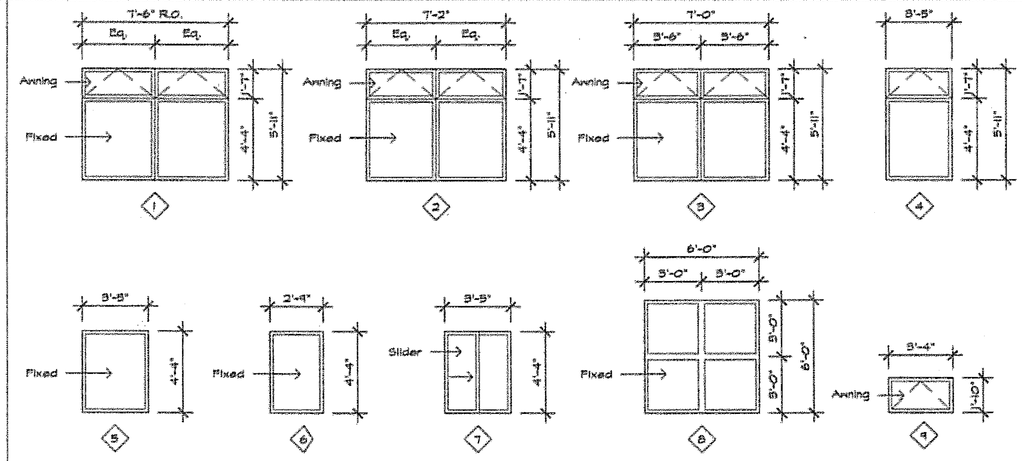


ROOM FINISH SCHEDULE

(See Sheet A0.1 for Abbreviations)

Location	Floor	Finish	Base	Finish	Walls	Finish	Ceiling	Finish	Notes
Waiting Area	Conc.	Seal*	Rbr	FF	GWB	PT	Wd	PT	* Color Concrete
Fut. Transit Operator	Cpt	FF	Rbr	FF	GWB	PT	Wd	PT	
Office	Cpt	FF	Rbr	FF	GWB	PT	GWB	PT	
Ticketing	Cpt	FF	Rbr	FF	GWB	PT	GWB	PT	
Mens Restroom	SV	FF	SV*	FF	GWB/FRP	PT	GWB	PT	* Integral flash cove base
Women's Restroom	SV	FF	SV*	FF	GWB/FRP	PT	GWB	PT	* Integral flash cove base
Janitor	Conc.	Seal	Rbr	FF	GWB	PT	GWB	PT	

WINDOW TYPES



NOTES (comply with IBC Section 2406):
1.) Glass within 24" of Vertical Door Edge (in Closed Position) to be Safety Glazing

2.) Glass Located Less than 18-inches Above the Floor to be Safety Glazing.

3.) Glass Located within 60-inches Horizontally of a Stair Tread and Glass where an Exposed Bottom Edge is located Less Than 60-inches Above the Plane of the Adjacent Walking Surface or Stairway is to be Safety Glazing.

4.) Provide Horizontal Louver Blinds on Window Types 1 through 7.

5.) Contractor to Verify Rough Opening Sizes Before Producing Shop Drawings or Ordering Window Units.

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

DESIGNED BY: TW

STATE OF ALASKA
Timothy Whiteley
No. A-9429
REGISTERED PROFESSIONAL ARCHITECT
3/18/05

CHECKED BY: TW, AW
DRAWN BY: LM, TW
PATH:
PLOT:

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
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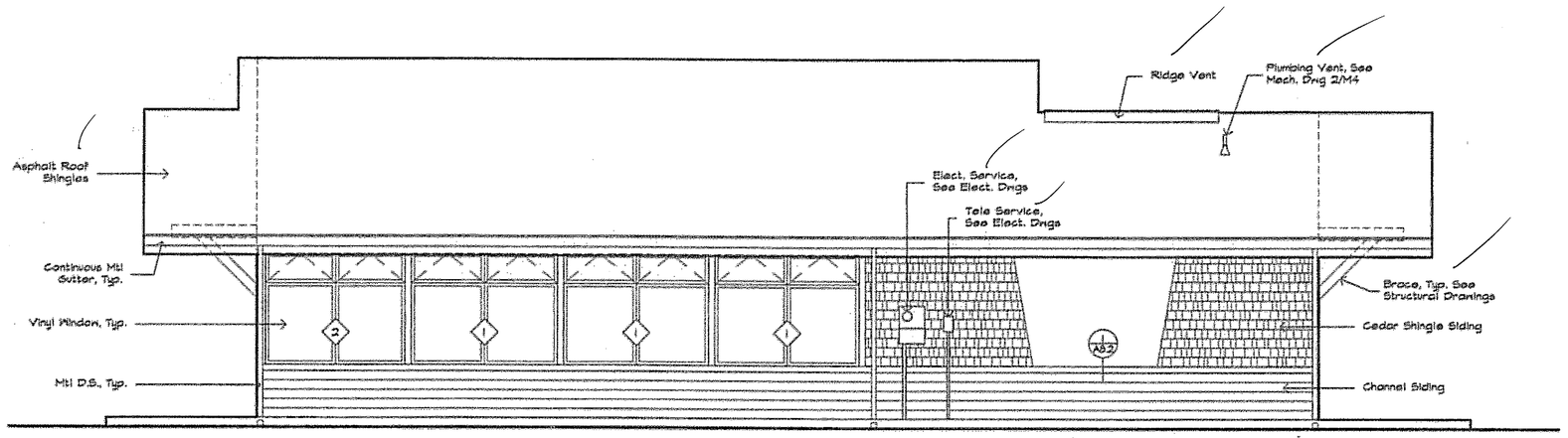
Coffman Cove Ferry Terminal & Maintenance Buildings
Project 67844

Schedules

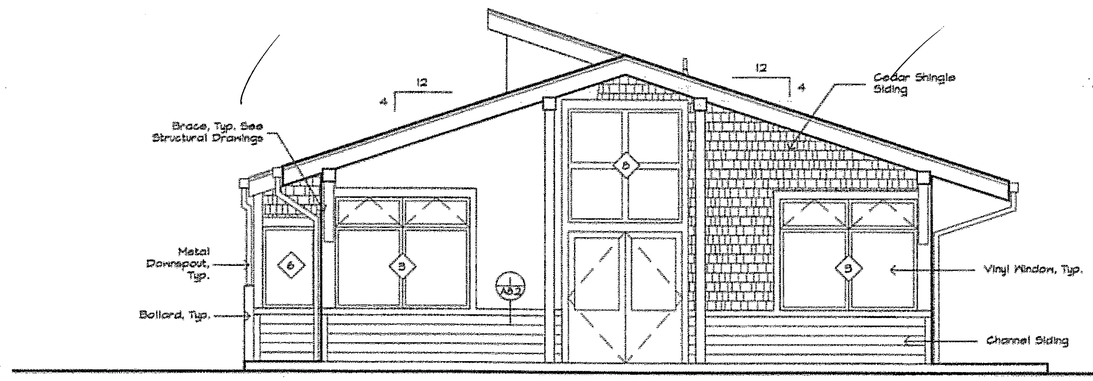
WELSH WHITELEY ARCHITECTS, LLC
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1 West Elevation 0 2' 4'



2 North Elevation 0 2' 4'

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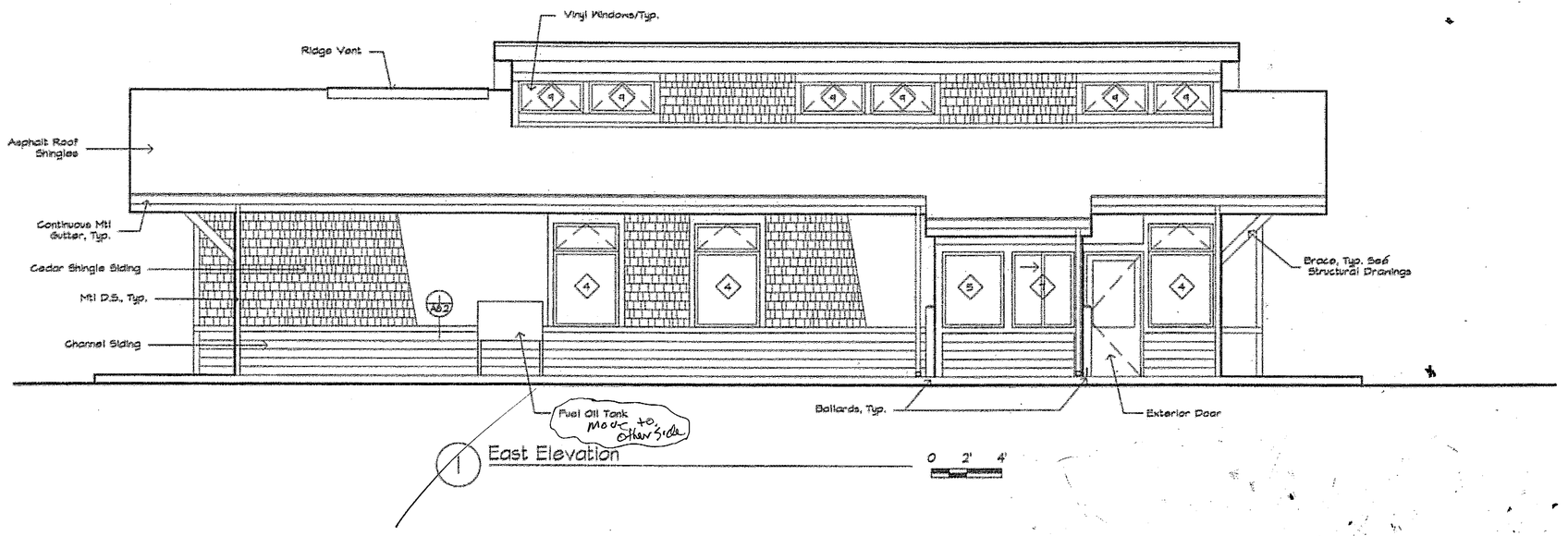
Coffman Cove Ferry Terminal & Maintenance Buildings
Project 67844
West & North Exterior Elevations

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PATH:
PLOT:

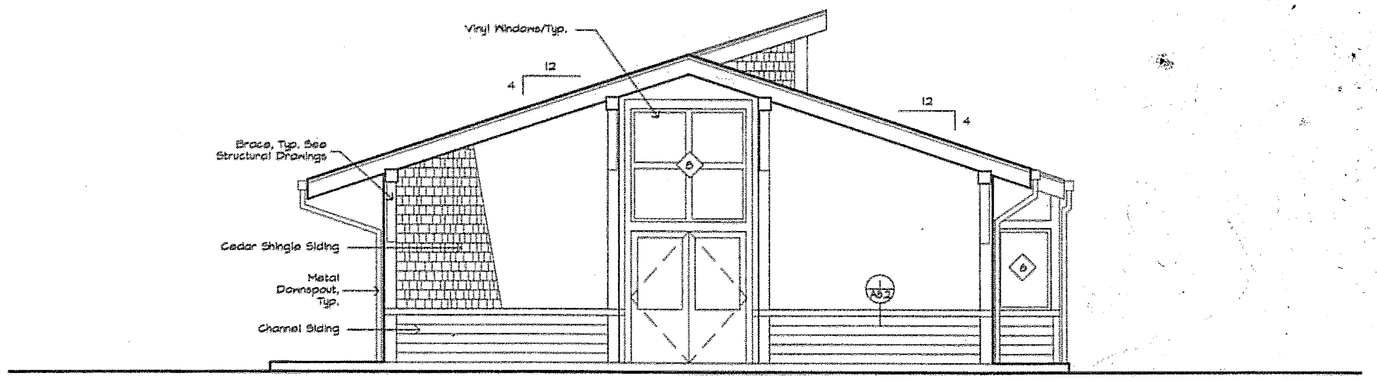
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			67844	2005	A3.1	36

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1 East Elevation

0 2' 4'



2 South Elevation

0 2' 4'

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Coffman Cove Ferry Terminal
& Maintenance Buildings
Project 67844

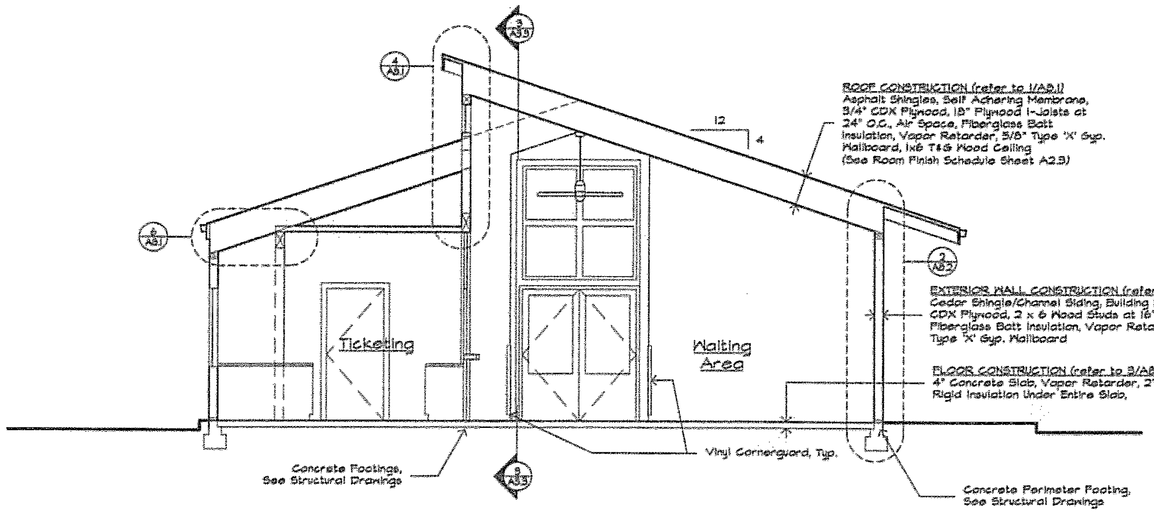
East & South Exterior Elevations

CHECKED BY: TW, AW
DRAWN BY: LM, TW
PATH:
PLOT:

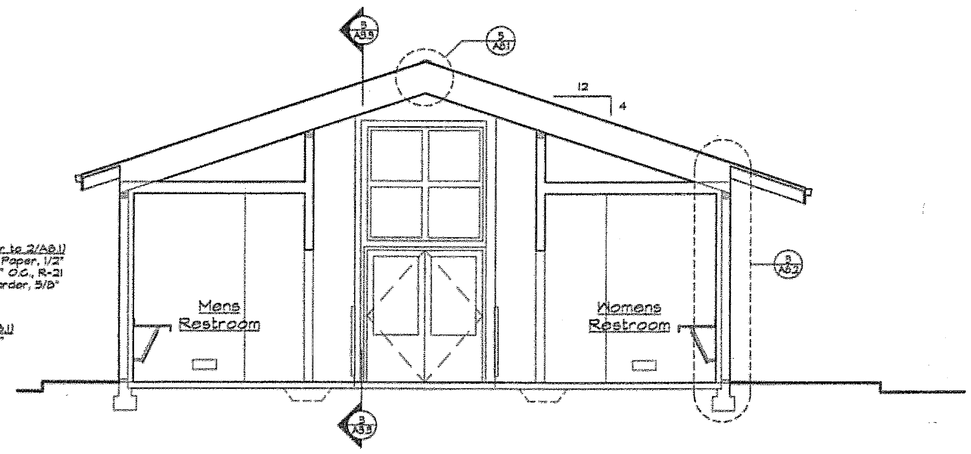
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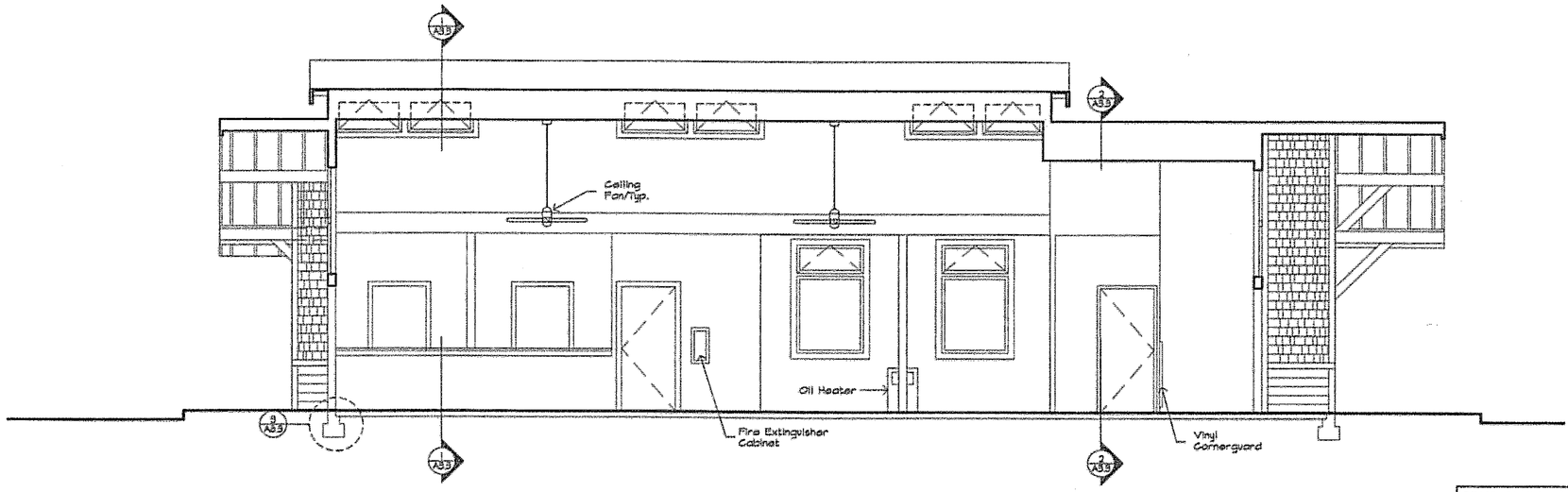
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1 Building Cross Section - 1 0 2' 4'



2 Building Cross Section - 2 0 2' 4'



3 Building Longitudinal Section 0 2' 4'

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DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
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Timothy Whiteley No. A-9429 PROFESSIONAL ENGINEER
7/6/05

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DRAWN BY: LM, TW

Coffman Cove Ferry Terminal & Maintenance Buildings Project 67844

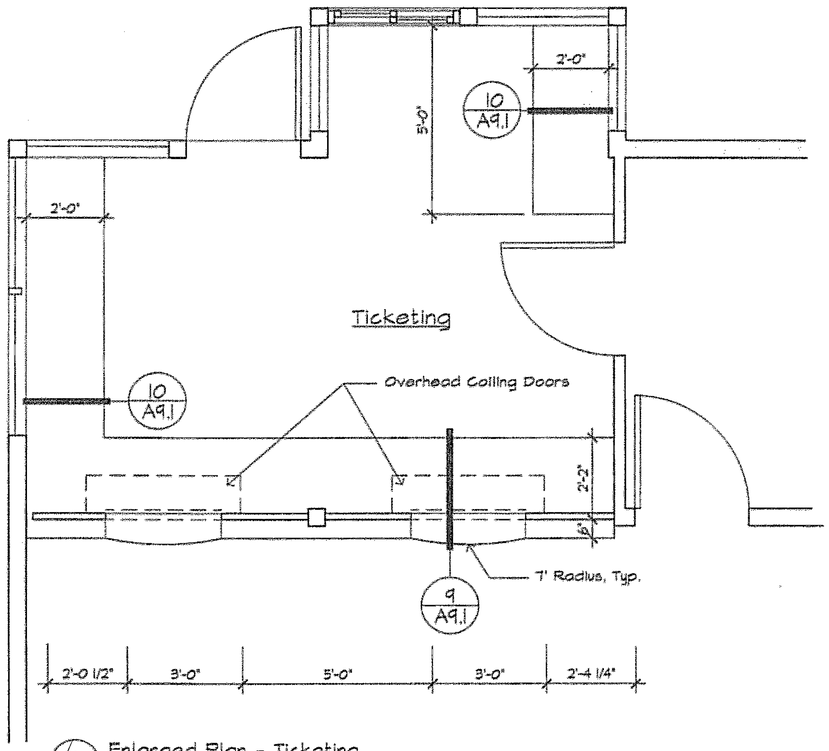
Building Sections

PATH:
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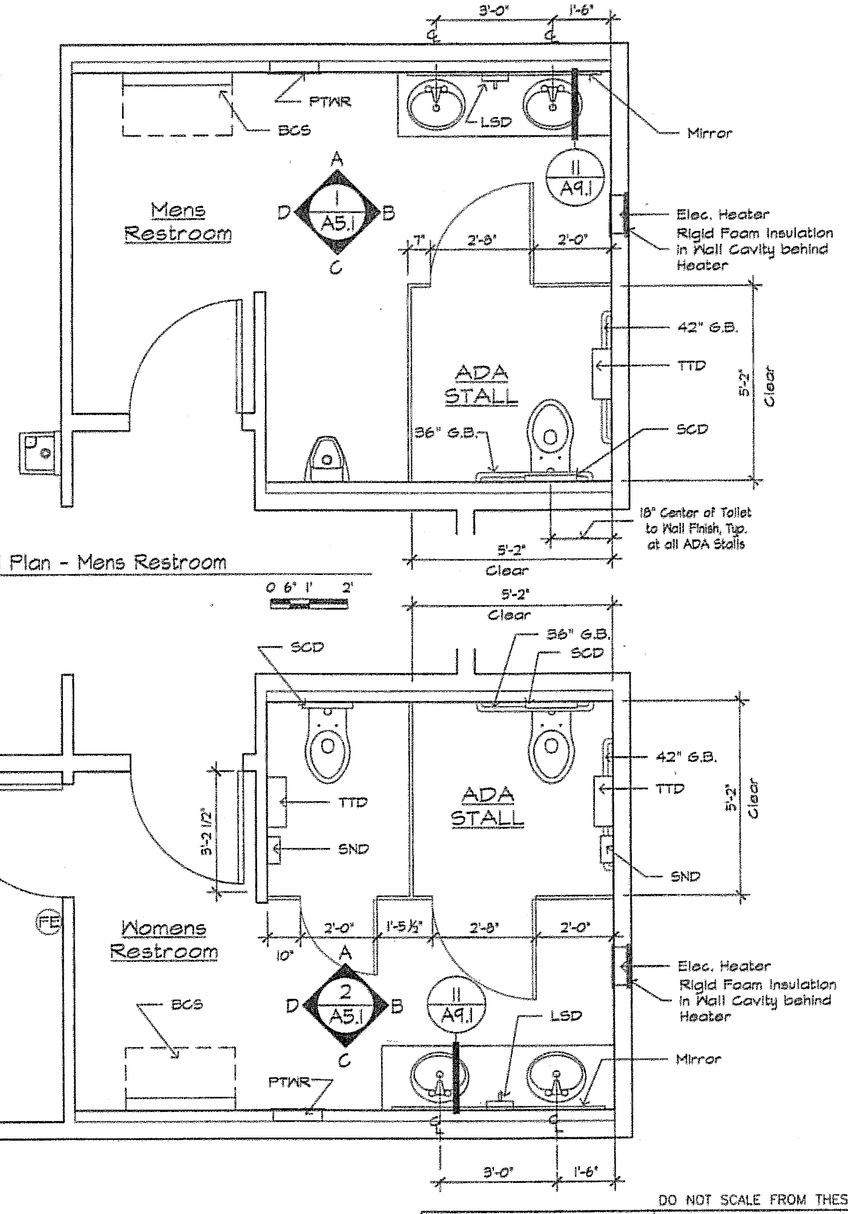
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3 Enlarged Plan - Ticketing

0 6" 1' 2'



1 Enlarged Plan - Mens Restroom

0 6" 1' 2'

2 Enlarged Plan - Womens Restroom & Mechanical Room

0 6" 1' 2'

TOILET & BATH ACCESSORIES ABBREVIATIONS

PTWR	Paper Towel/ Waste Receptacle
TTD	Toilet Tissue Dispenser
LSD	Liquid Soap Dispenser
G.B.	Grab Bar
SCD	Seat Cover Dispenser
SND	Sanitary Napkin Disposal
BCS	Baby Changing Station

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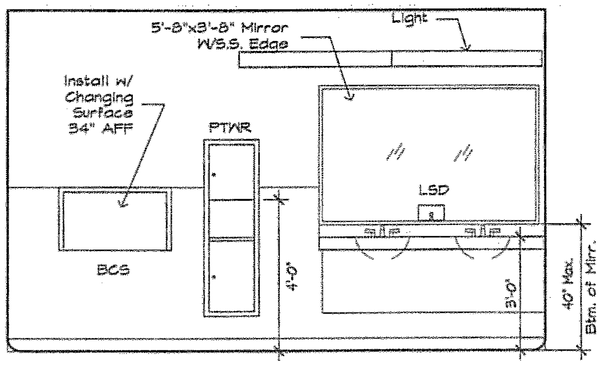
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Enlarged Plans

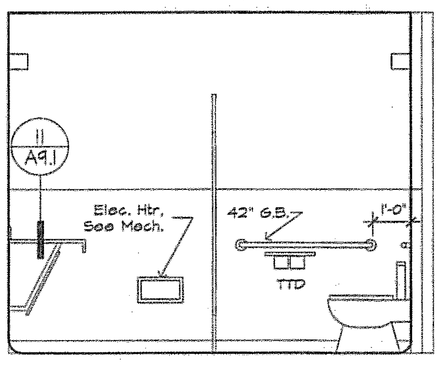
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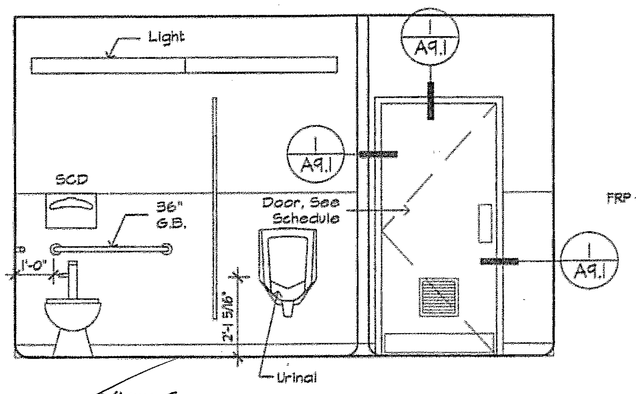
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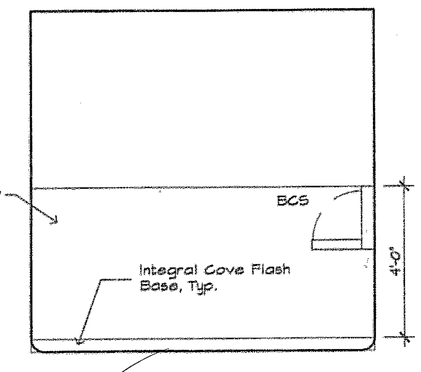
View A



View B



View C

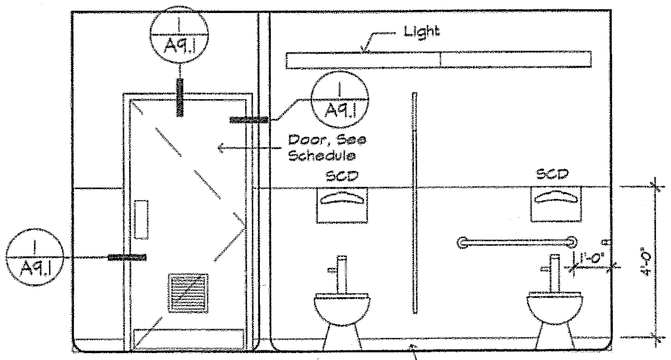


View D

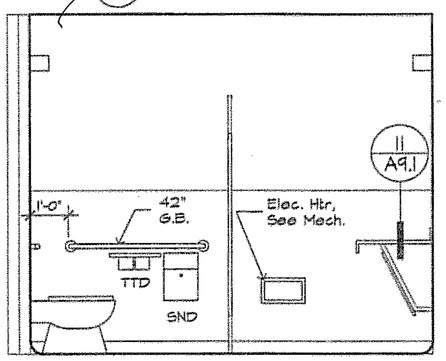
1 Interior Elevations - Mens Restroom

1/4" = 1'-0"

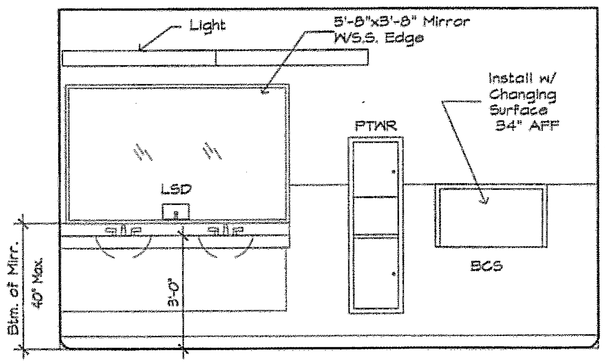
0 6" 1' 2'



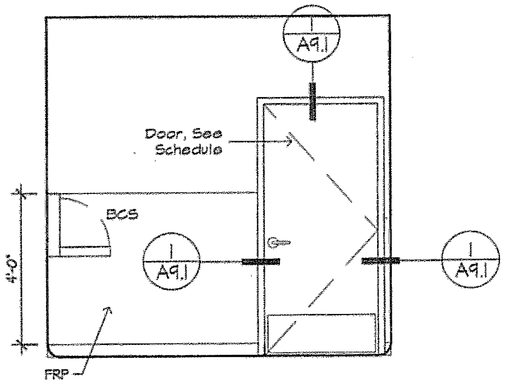
View A



View B



View C



View D

2 Interior Elevations - Womens Restroom

1/4" = 1'-0"

0 6" 1' 2'

NOTE: See Sheet A4.1 for
Toilet and Bath Accessories Abbreviations

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3/8/05

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DEPARTMENT OF TRANSPORTATION
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Coffman Cove Ferry Terminal
& Maintenance Buildings
Project 67844

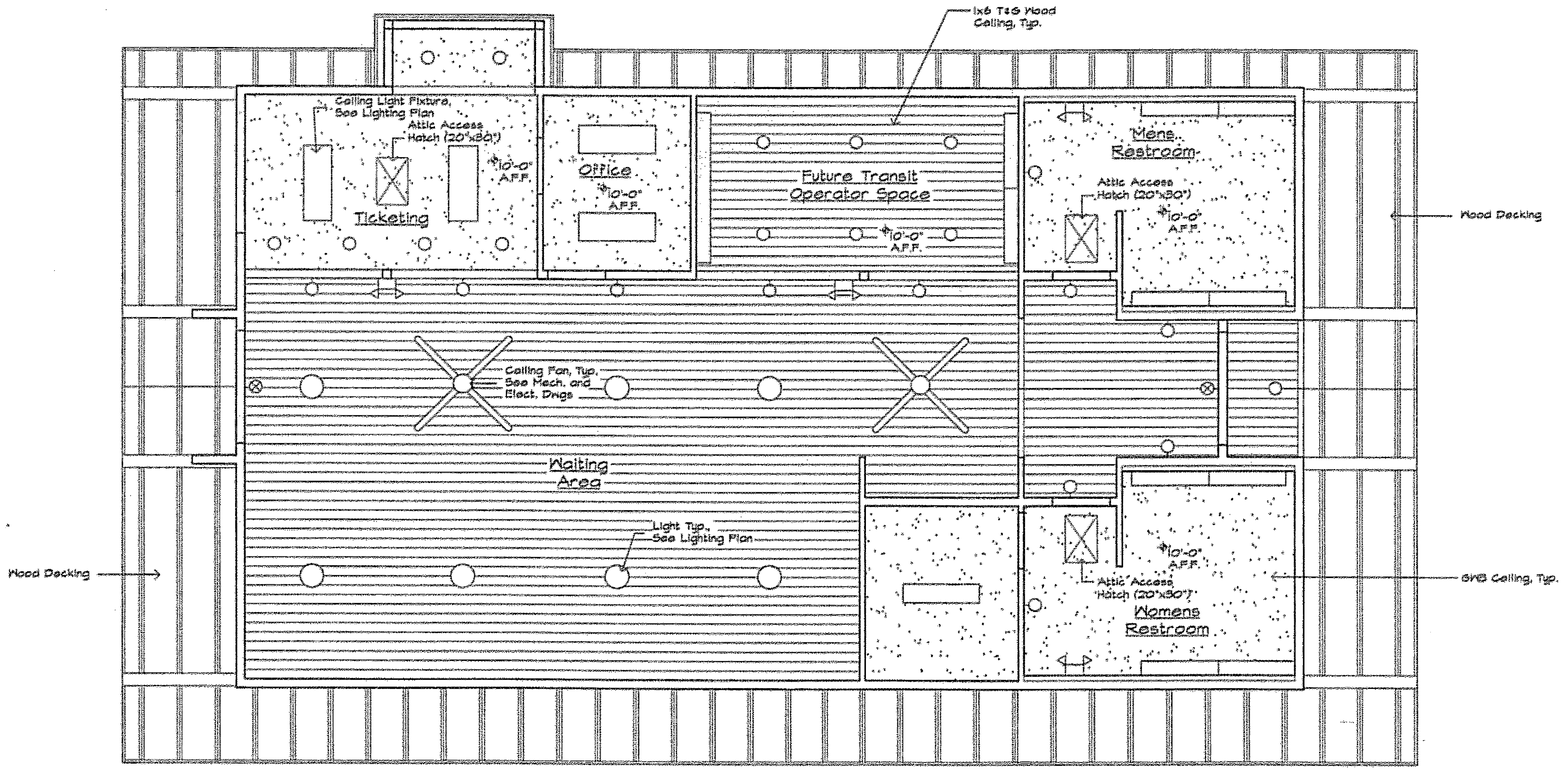
Interior Elevations

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PLOT:

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Ketchikan, Alaska 99901
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(907) 225-2422 Fax

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1 Reflected Ceiling Plan

0 2' 4'

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DEPARTMENT OF TRANSPORTATION
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SE REGION DESIGN & ENGINEERING SERVICES DIVISION

Coffman Cove Ferry Terminal
& Maintenance Buildings
Project 67844

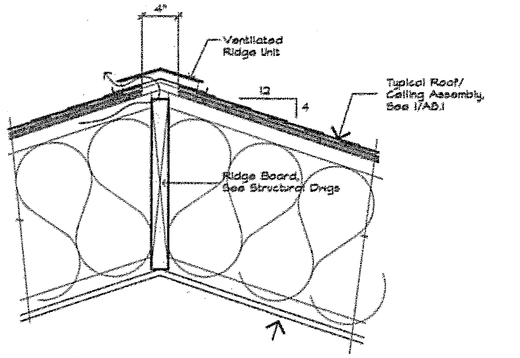
Reflected Ceiling Plan

Timothy Whiteley No. A-9429 — 5/6/05

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320 Dock Street #215
Ketchikan, Alaska 99901
(907) 225-2412 Voice
(907) 225-2422 Fax

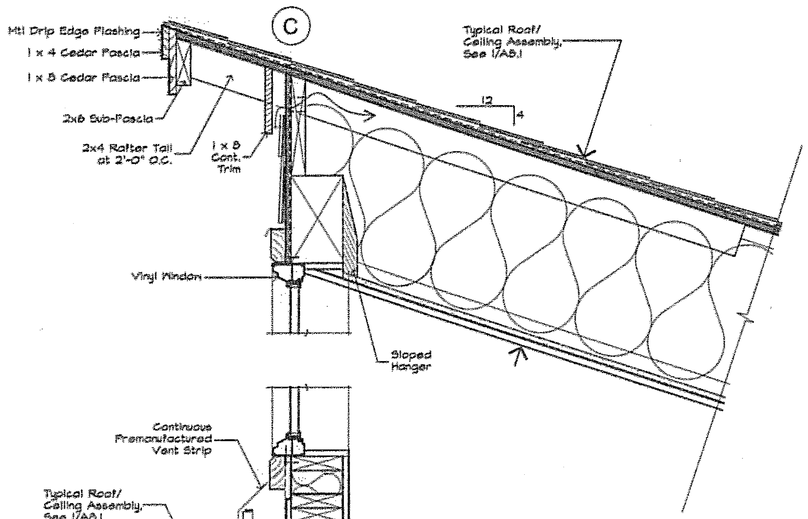
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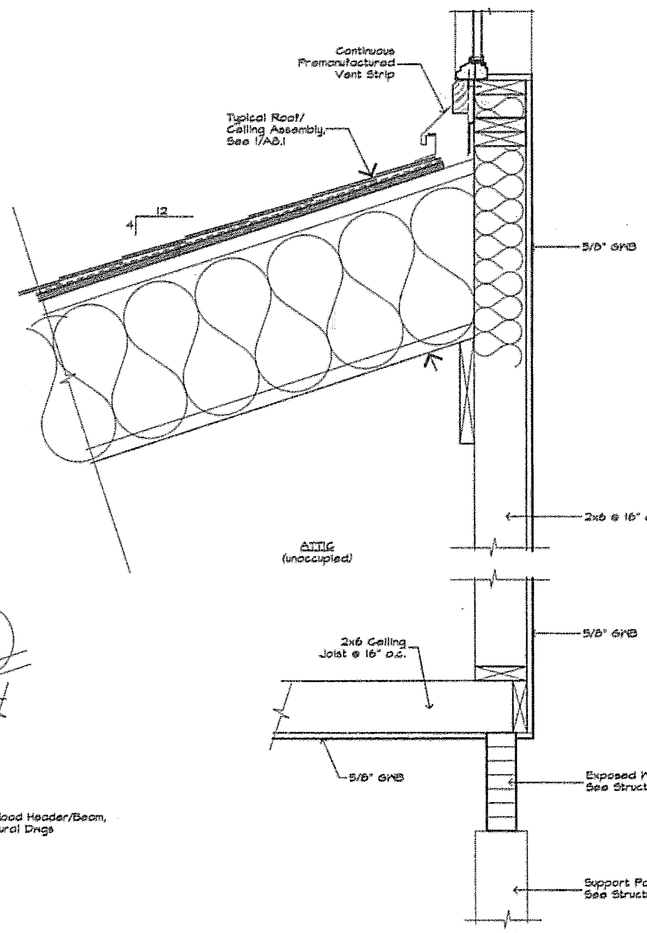
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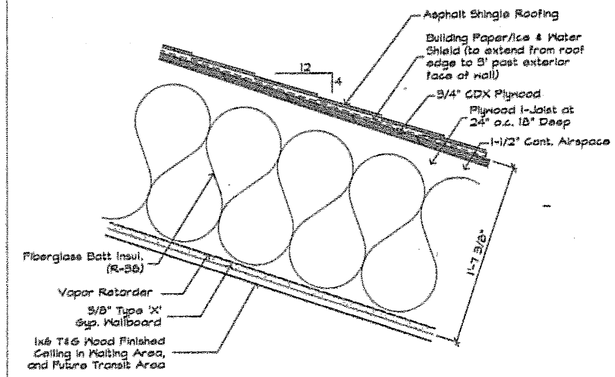


5 Ventilated Ridge

0 1" 3" 6"

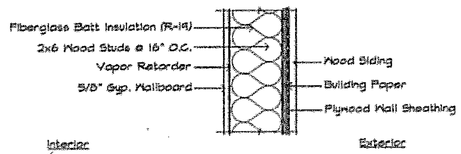






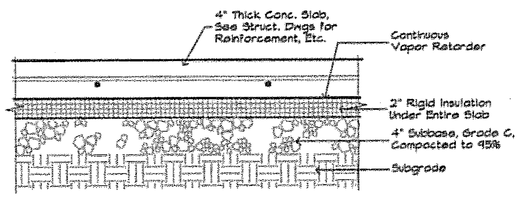
1 Typical Roof/Ceiling Assembly

0 1" 3" 6"



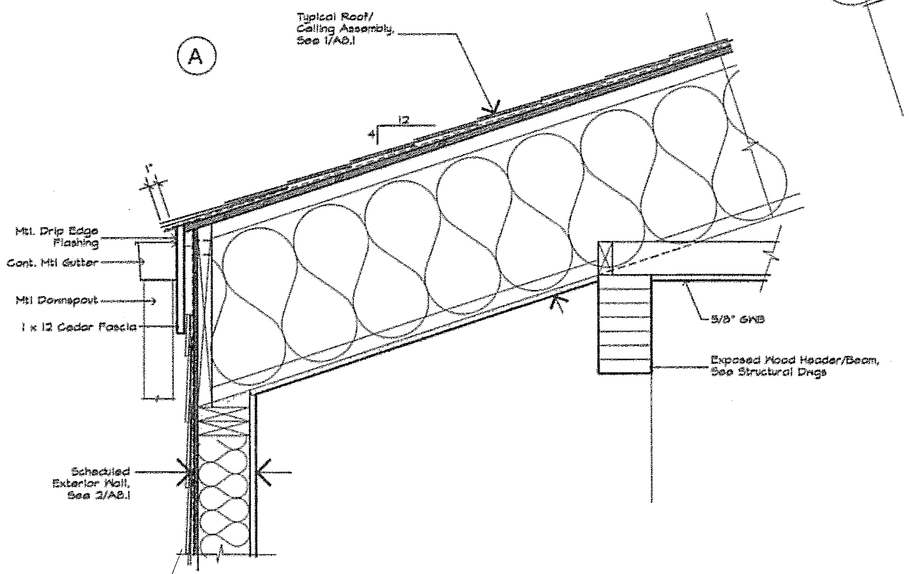
2 Typical Exterior Wall Assembly

0 1" 3" 6"



3 Typical Floor Assembly

0 1" 3" 6"



6 Section at Ticketing Window

0 3" 6" 12"

4 Section at Clerestory

0 3" 6" 12"

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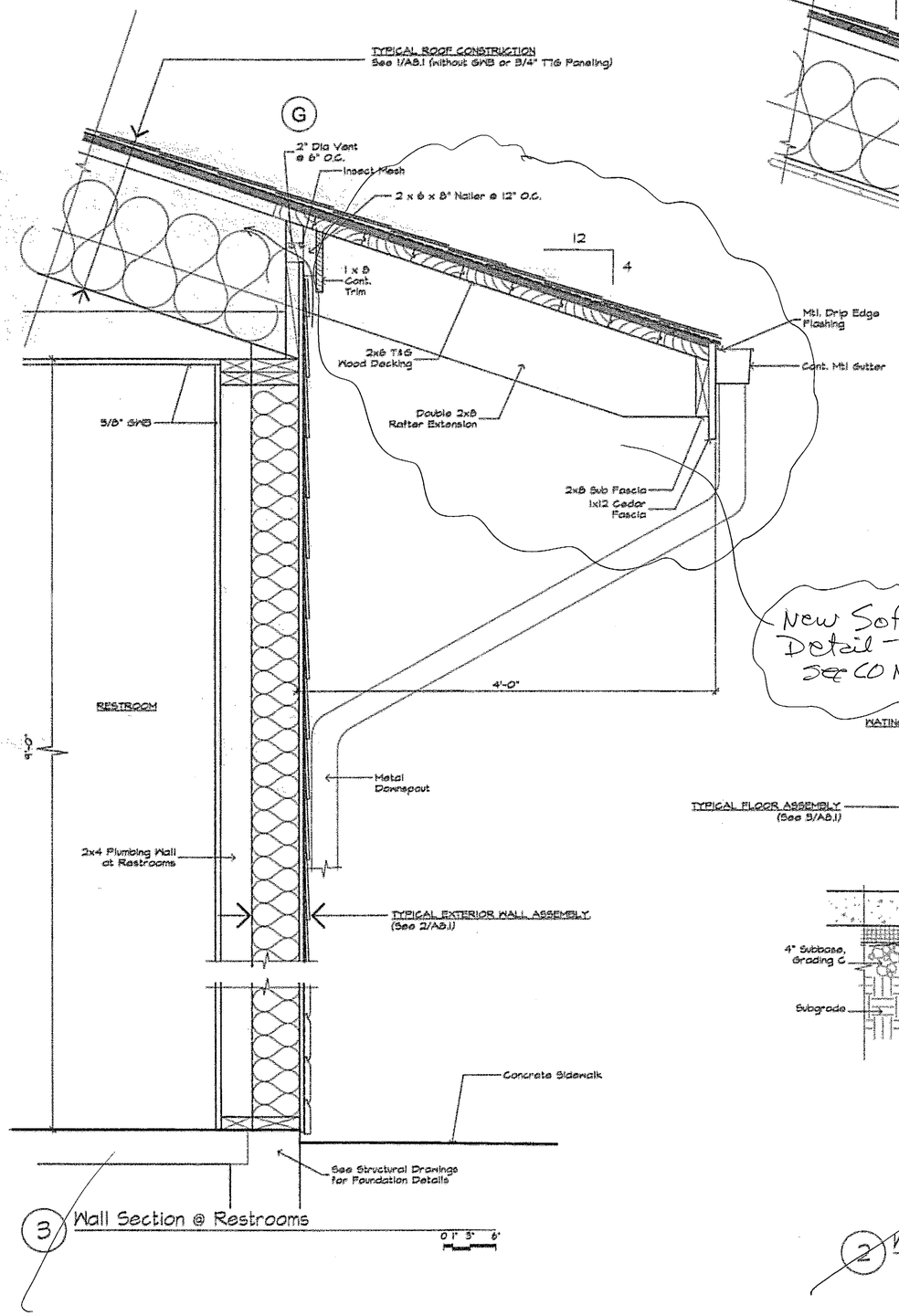
Coffman Cove Ferry Terminal
& Maintenance Buildings
Project 67844

Details

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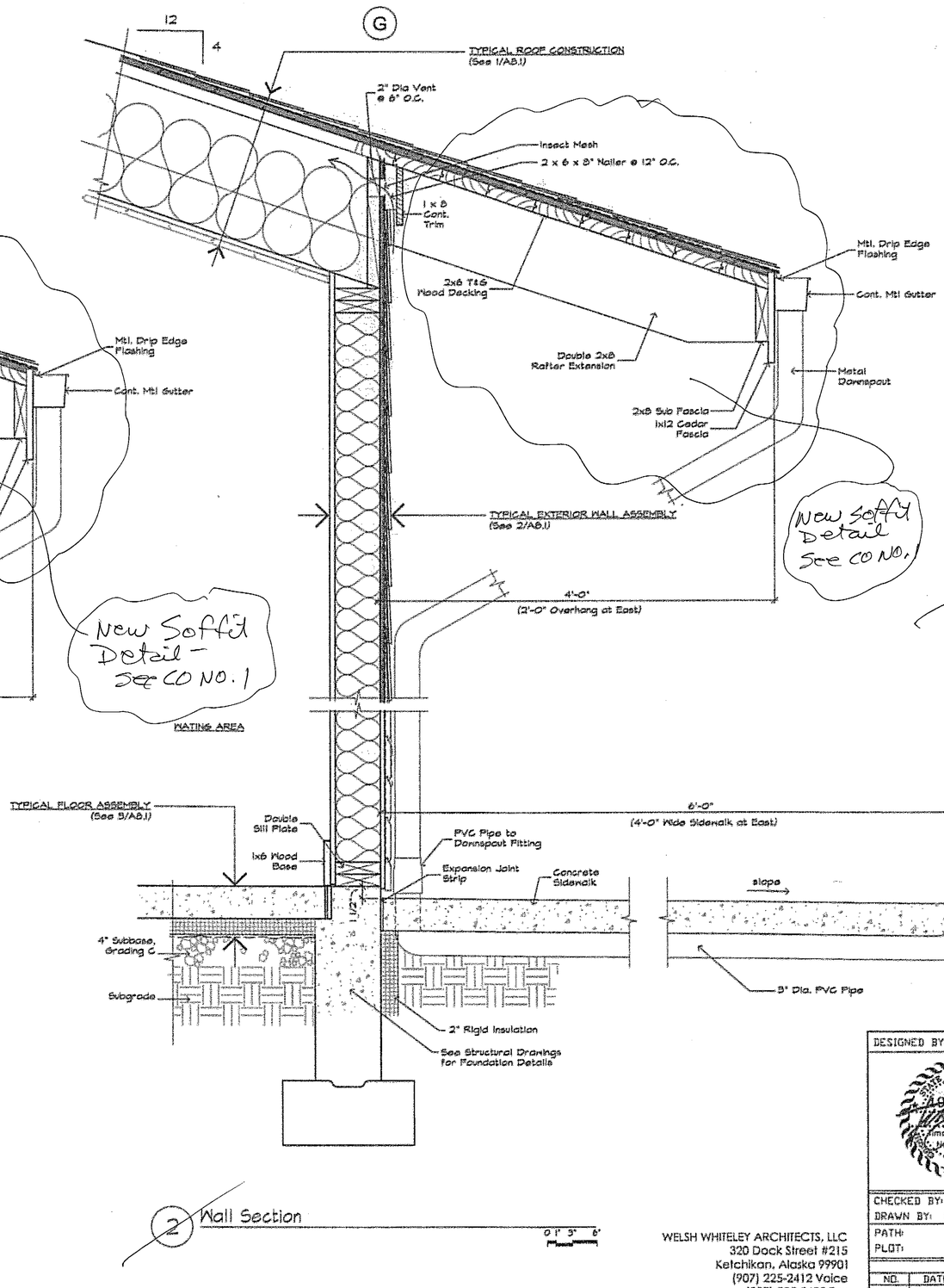
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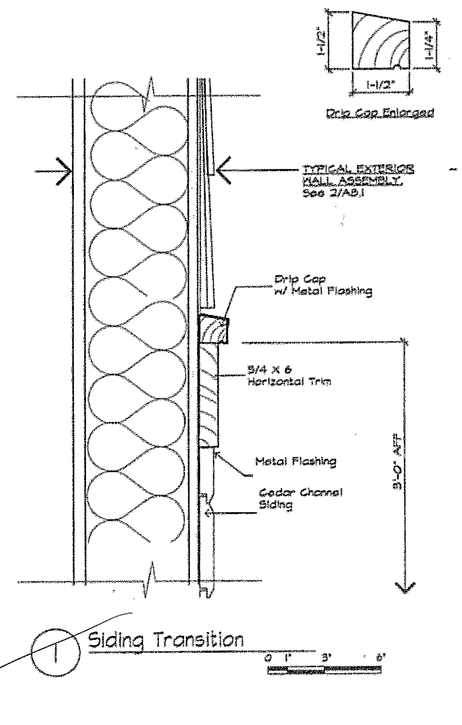
3 Wall Section @ Restrooms

0 1" 3" 6"



2 Wall Section

0 1" 3" 6"



1 Siding Transition

0 1" 3" 6"

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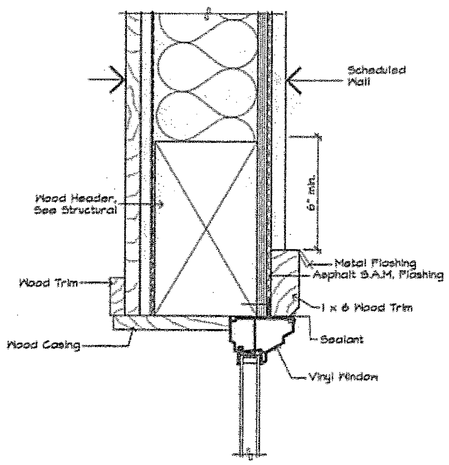
Details

Timothy Whiteley
Reg. No. A-9429
3/9/05

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320 Dock Street #215
Ketchikan, Alaska 99901
(907) 225-2412 Voice
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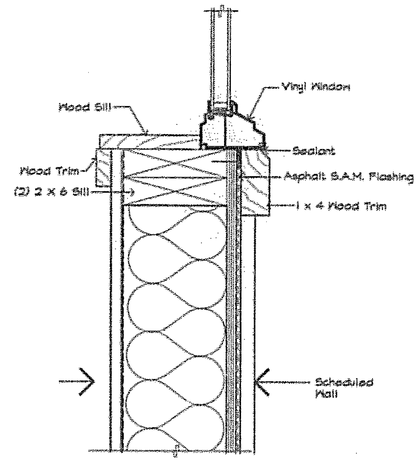
REVISIONS NO.	DATE	DESCRIPTION

PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
67844	2005	A8.2	36



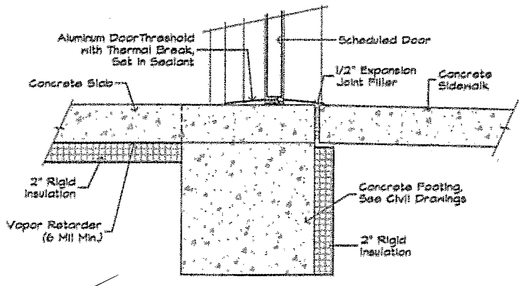
7 Window Head

0 1" 3" 6"



6 Window Sill (Jamb Similar)

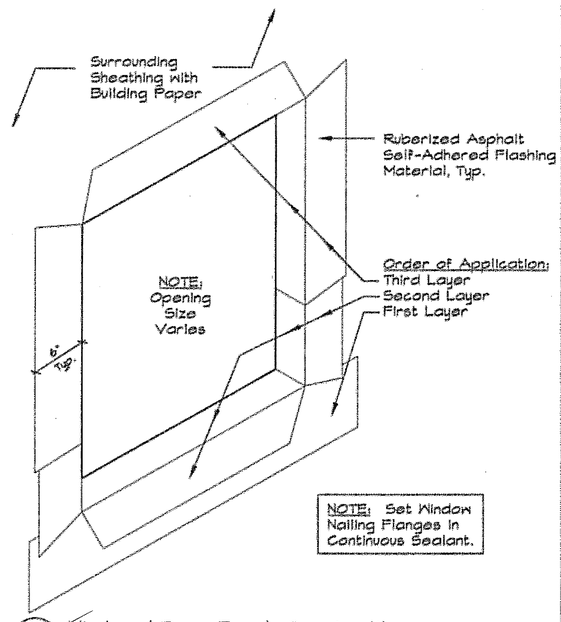
0 1" 3" 6"



3 Slab Detail At Exterior Door

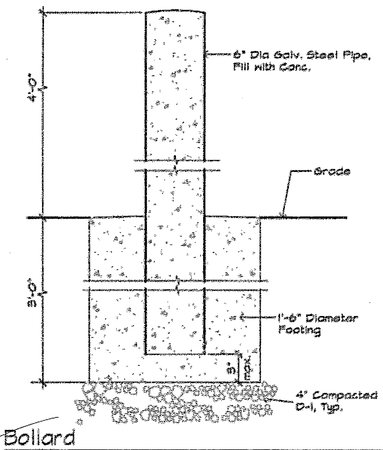
0 1" 3" 6"

1 Not Used



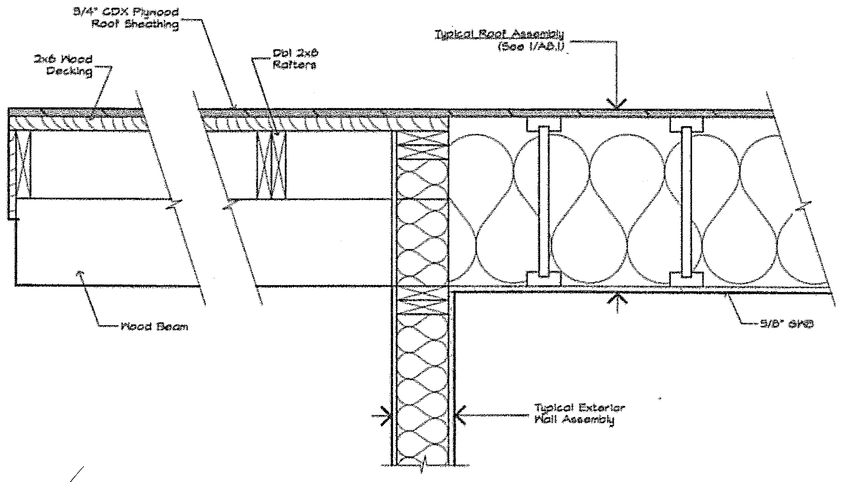
4 Window / Door Rough Opening Wrap

Not to Scale



2 Bollard

0 1" 3" 6"



8 Roof Rake

0 3" 6" 12"

5 Not Used

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

DESIGNED BY: TW

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

Coffman Cove Ferry Terminal
& Maintenance Buildings
Project 67844

Details

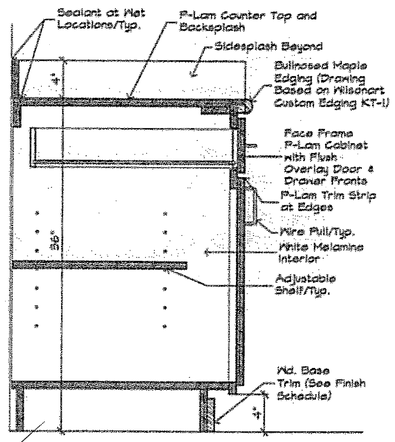
Timothy Whiteley No. A-9429 — 3/9/05

CHECKED BY: TW, AW
DRAWN BY: LM, TW
PATH:
PLOT:

WELSH WHITELEY ARCHITECTS, LLC
320 Dock Street #215
Ketchikan, Alaska 99901
(907) 225-2412 Voice
(907) 225-2422 Fax

REVISIONS NO.	DATE	DESCRIPTION	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			67844	2005	A8.3	36

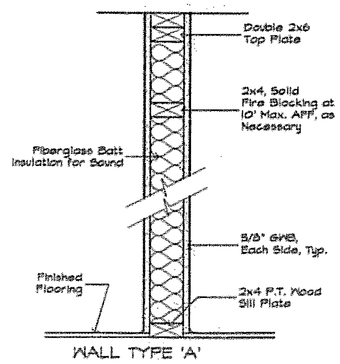
✓ 3/9 2/07



10 Typ. Base Cabinet

0 1" 3" 6"

8 NOT USED

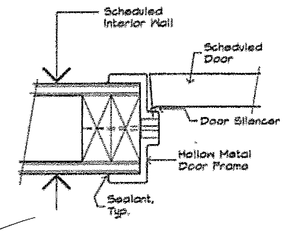


WALL TYPE 'A'

Wall Type 'B' is identical to 'A', except that 2x6 Wood Studs are Used

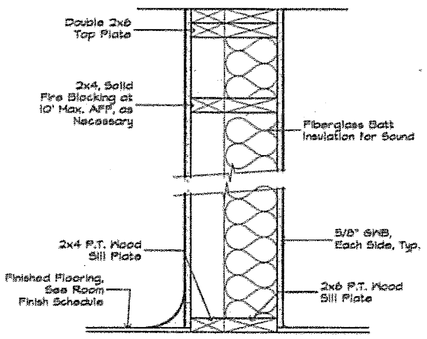
5 Interior Wall Types - A & B

0 1" 3" 6"



1 Hollow Metal Door Jamb (Head Similar)

0 1" 3" 6"

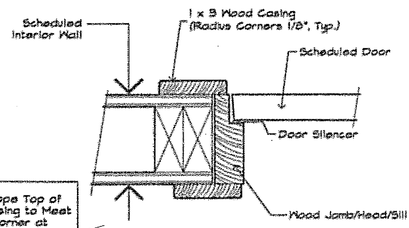


WALL TYPE 'C'

6 Interior Wall - Type C

0 1" 3" 6"

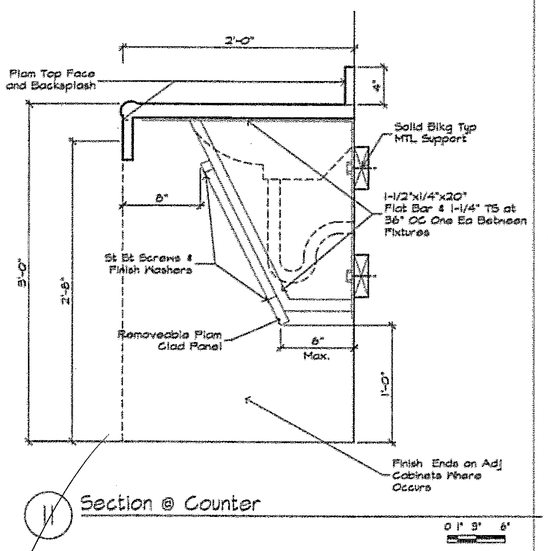
2 NOT USED



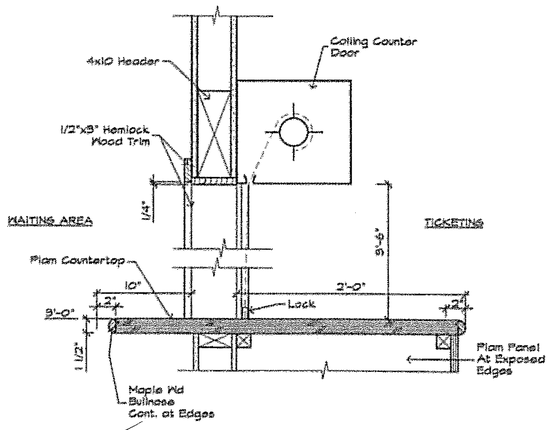
NOTE: Cope Top of Jamb Casing to Meet Radius Corner at Head Casing.

3 Wood Door Jamb (Head Similar)

0 1" 3" 6"



11 Section @ Counter



9 Coiling Counter Door

0 1" 3" 6"

7 NOT USED

WELSH WHITELEY ARCHITECTS, LLC
320 Dock Street #215
Ketchikan, Alaska 99901
(907) 225-2412 Voice
(907) 225-2422 Fax

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DESIGNED BY: TW

Timothy Whiteley Reg. No. A-9429 2/6/05

CHECKED BY: TW, AW

DRAWN BY: LM, TW

PATH:

PLOT:

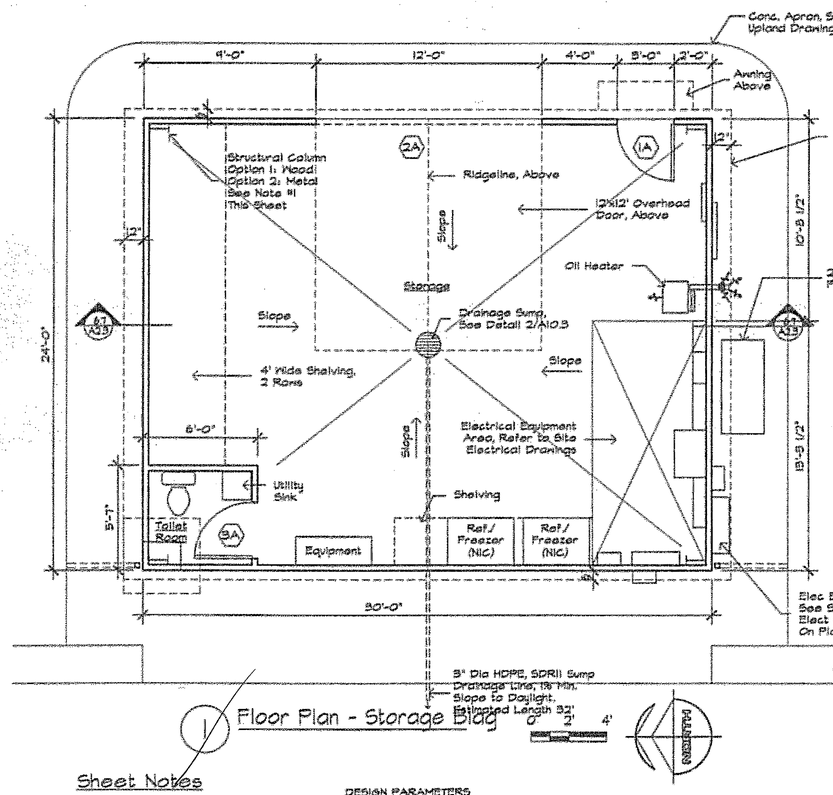
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
SE REGION DESIGN & ENGINEERING SERVICES DIVISION

Coffman Cove Ferry Terminal & Maintenance Buildings
Project 67844

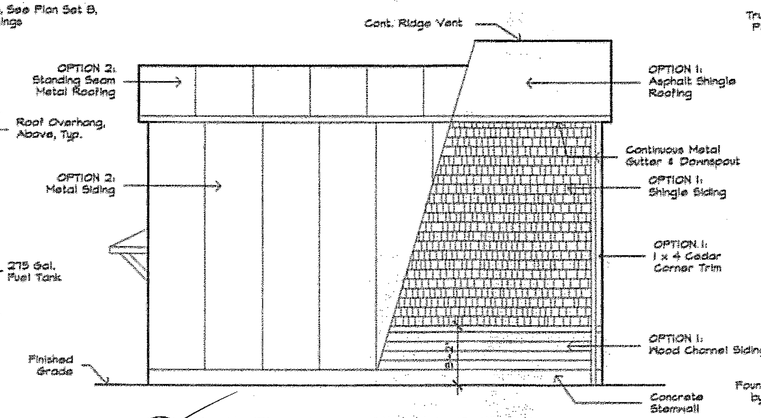
Interior Details

REVISIONS NO.	DATE	DESCRIPTION	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			67844	2005	A9.1	36

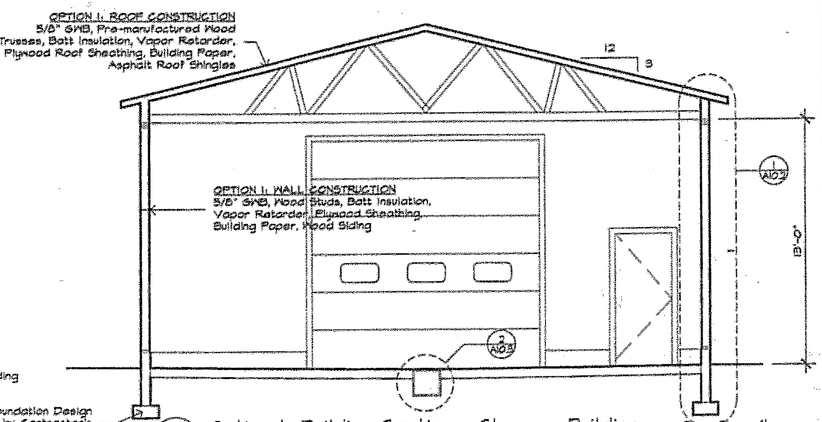
✓ GMB 2/07



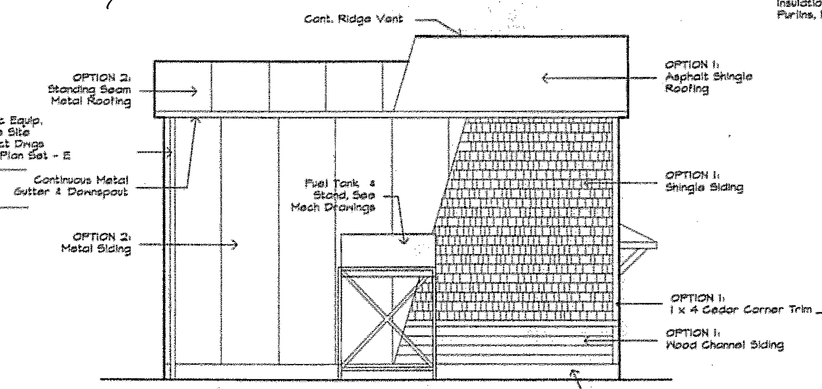
1 Floor Plan - Storage Bldg



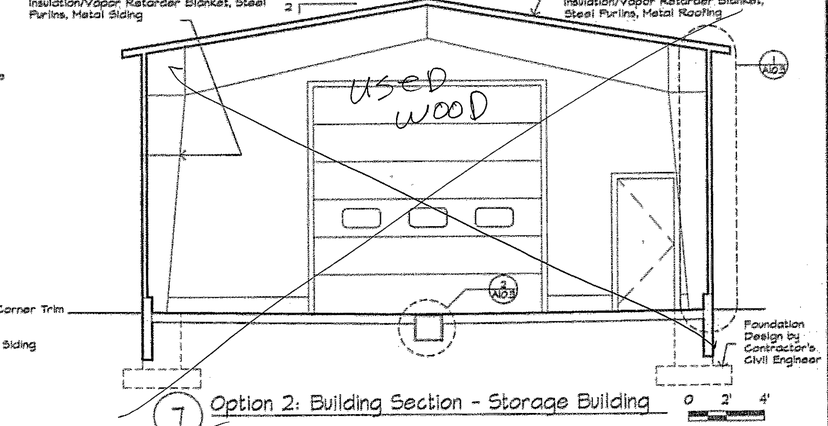
3 North Elevation - Storage Building



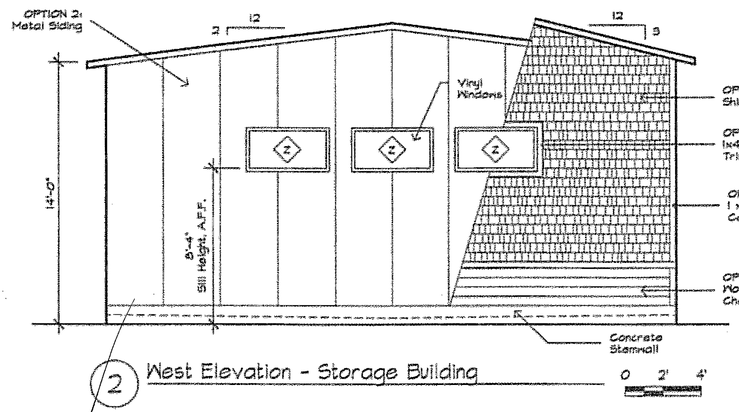
6 Option 1: Building Section - Storage Building



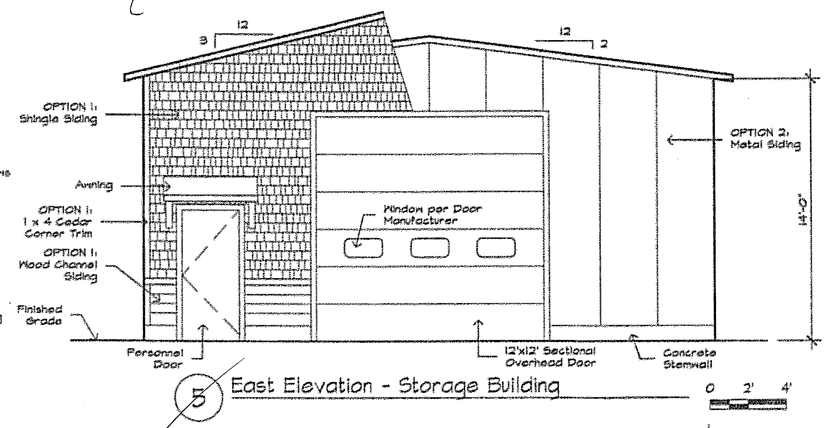
4 South Elevation - Storage Building 0 2' 4'



7 Option 2: Building Section - Storage Building



2 West Elevation - Storage Building



5 East Elevation - Storage Building

Sheet Notes

1) Contractor has option to provide a wood framed building with wood siding or metal framed building with metal siding, to conform to the drawings, details and specifications. In either case, contractor is to provide a building and foundation engineered by an Alaska licensed civil engineer.

2) See Upland Electrical Drawings for interior Electrical Work and Lighting Fixtures for Maintenance Building.

DESIGN PARAMETERS
Design Basis: International Building Code, 2003
See General Notes, Sheet A0.1

Design Loads:
Floor Live Load = 100 psf
Ground Snow Load, Pg = 60 psf

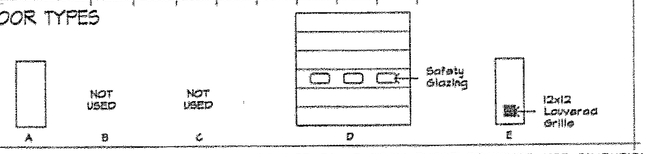
Earthquake Loads (Use Group I):
Ss = 0.24g
S1 = 0.20g
Site Class D
Ie = 1.0

Wind Loads:
Basic Wind Speed, V = 120 mph, 3-second gust
Exposure C
Iw = 1.0

DOOR SCHEDULE (See Sheet A0.1 for Abbreviations)

	Size (W x H)	Type	Thick.	Construction: Door	Construction: Frame	Details: Head	Details: Jamb	Details: Sill	HDWR	Remarks
1A	3'-0" x 7'-0"	A	1-3/4"	HM	HM				6	
2A	12'-0" x 12'-0"	D	-	-	-				7	Overhead
3A	3'-0" x 7'-0"	E	1-3/4"	HM	HM				8	

DOOR TYPES



WINDOW SCHEDULE (See Sheet A0.1 for Abbreviations)

No.	Size (W x H)	Type	Openable Area
Z	4'-4" x 2'-4"	Vinyl - Fixed	8 s.f.

ROOM FINISH SCHEDULE (See Sheet A0.1 for Abbreviations)

Location	Floor	Finish	Base	Finish	Walls	Finish	Ceiling	Finish	Notes
Storage	Conc.	Seal	Rbr	FF	*		*		* Option 1 Building is to have 5/8" GWB applied to Walls & Ceiling. Option 2 Building is to have Plywood Wainscot to 8' AFF. Remainder of Wall and Entire Ceiling will have Exposed Batt Insulation w/ Integral Plastic Vapor Retarder.
Toilet Room	Conc.	Seal	Rbr	FF	GWB	PT	GWB	PT	

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

WELSH WHITELEY ARCHITECTS, LLC
320 Dock Street #215
Ketchikan, Alaska 99901
(907) 225-2412 Voice
(907) 225-2422 Fax

DESIGNED BY: TW
CHECKED BY: TW, AW
DRAWN BY: LM, TW
PATH:
PLOT:

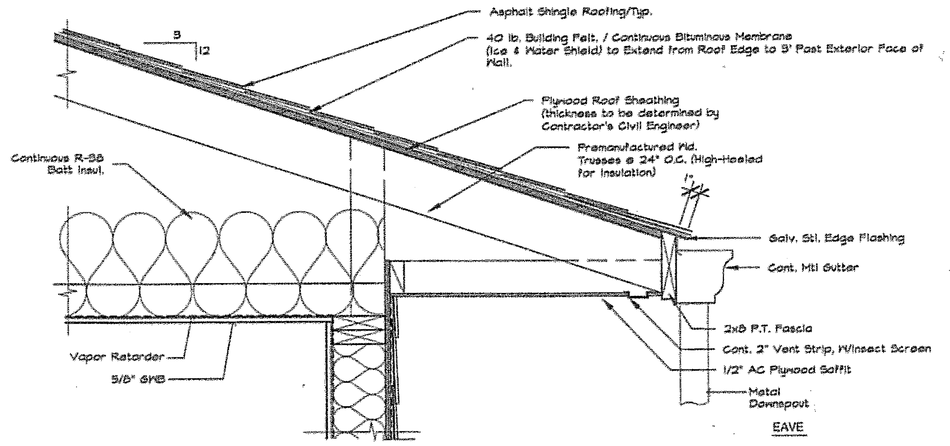
Timothy Whiteley No. AR-9429 3/6/05

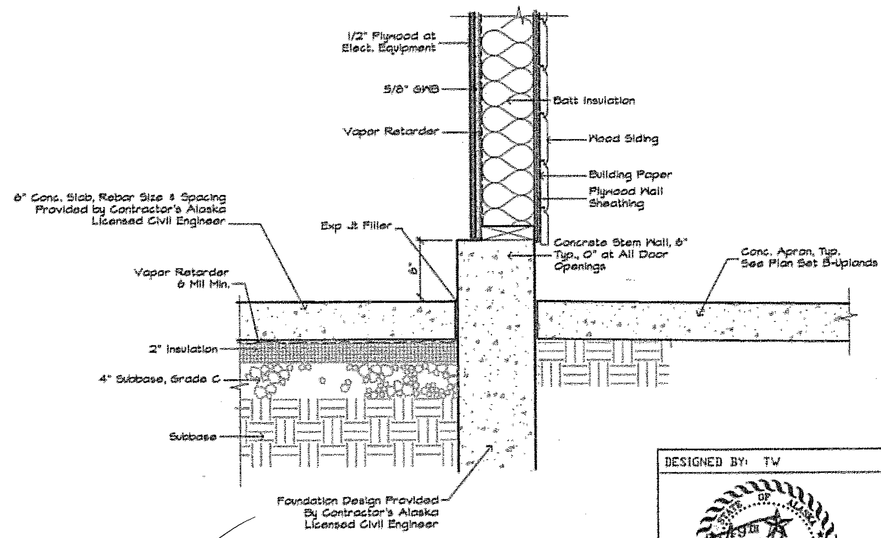
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
SE REGION DESIGN & ENGINEERING SERVICES DIVISION

Coffman Cove Ferry Terminal & Maintenance Buildings
Project 67844
Maintenance Building
Floor Plan, Elevations, Sections, Schedules

REVISIONS NO.	DATE	DESCRIPTION	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			67844	2005	A10.1	36

✓ GB 2/07





1 Option 1: Wall Section - Wood Building

0 3" 6" 12"

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

Coffman Cove Ferry Terminal
& Maintenance Buildings
Project 67844

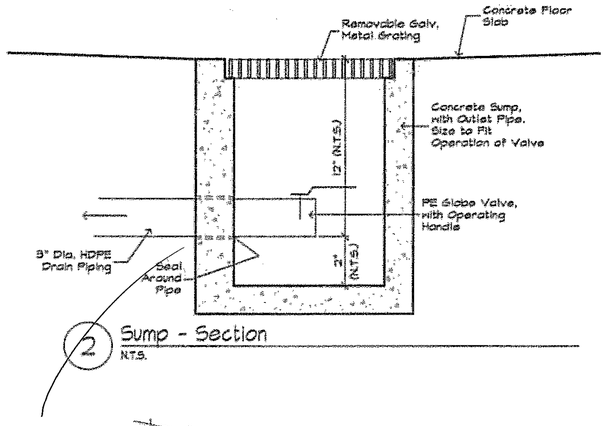
Details - Maintenance Building

CHECKED BY: TW, AW
DRAWN BY: LM, TW
PATH:
PLOT:

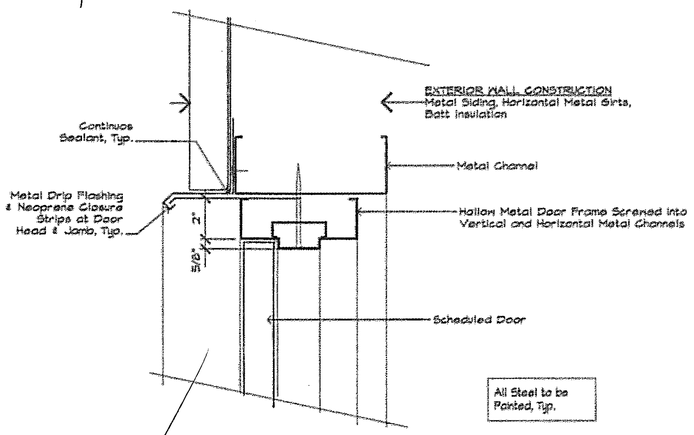
REVISIONS NO.	DATE	DESCRIPTION	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			67844	2005	A10.2	36

WELSH WHITELEY ARCHITECTS, LLC
320 Dock Street #215
Ketchikan, Alaska 99901
(907) 225-2412 Voice
(907) 225-2422 Fax

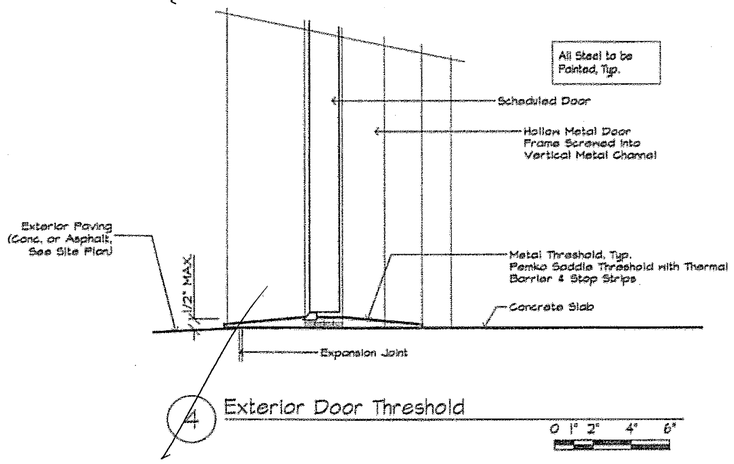
✓ 2/07



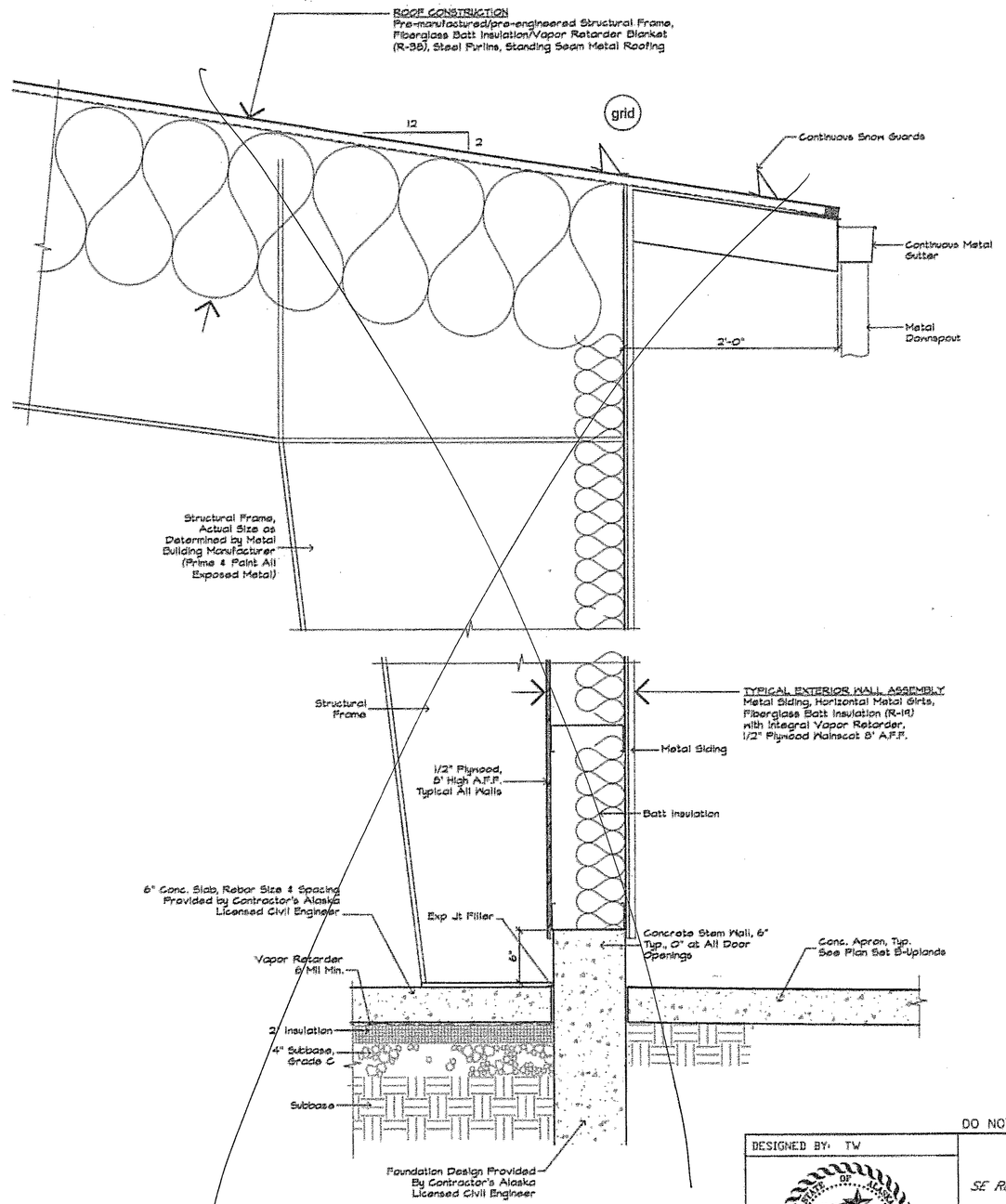
2 Sump - Section
N.T.S.



3 Exterior Door Head / Jamb Similar
0 1" 2" 4" 6"



4 Exterior Door Threshold
0 1" 2" 4" 6"



1 ~~Option 2: Wall Section - Metal Building~~
NOT USED
0 3" 6" 12"

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

DESIGNED BY: TW
CHECKED BY: TW, AW
DRAWN BY: LM, TW
PATH:
PLOT:

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

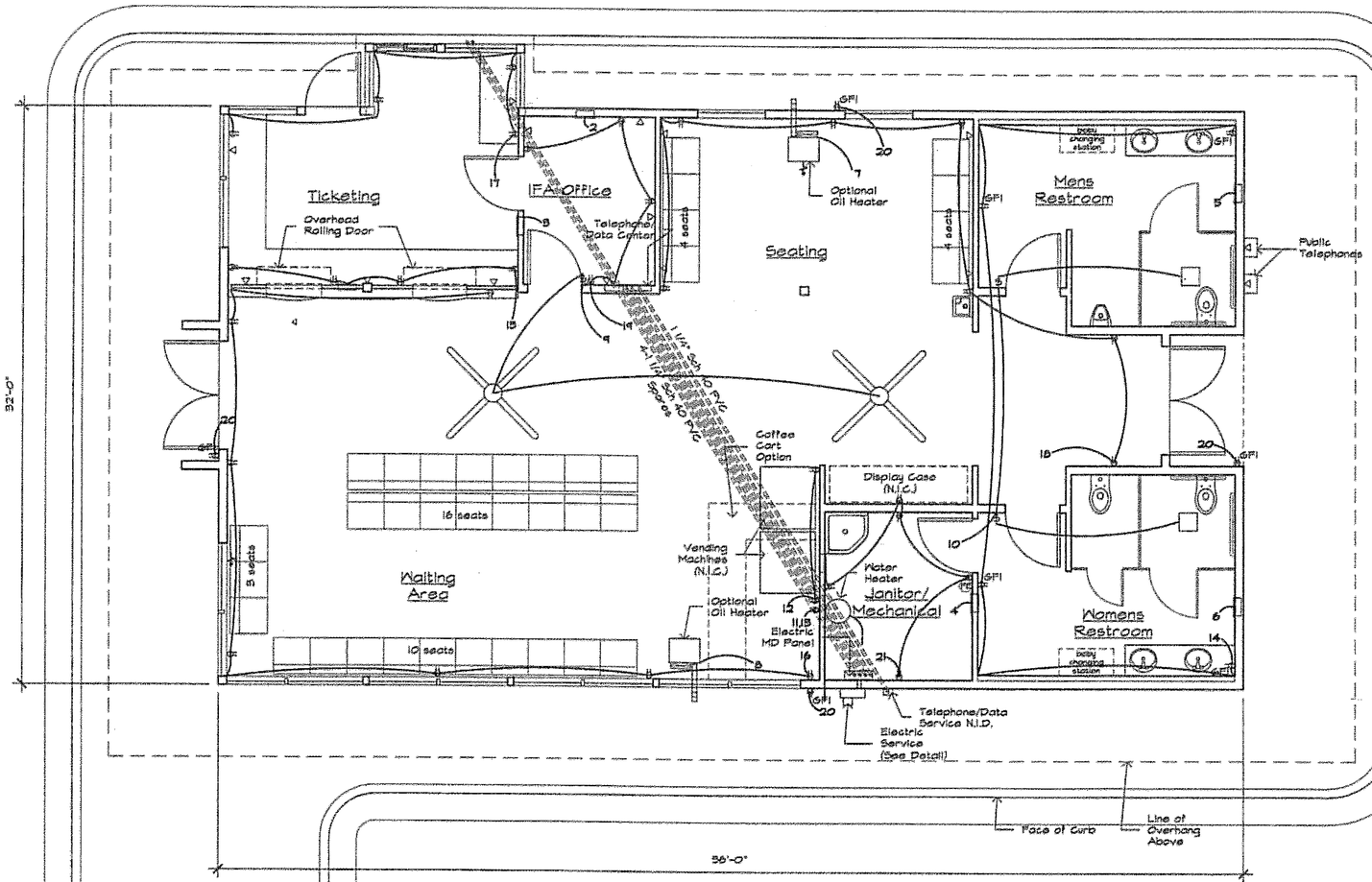
Coffman Cove Ferry Terminal & Maintenance Buildings
Project 67844
Details - Maintenance Building

3/6/05

WELSH WHITELEY ARCHITECTS, LLC
320 Dock Street #215
Ketchikan, Alaska 99901
(907) 225-2412 Voice
(907) 225-2422 Fax

REVISIONS NO.	DATE	DESCRIPTION	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			67844	2005	A10.3	36

✓ 2/07

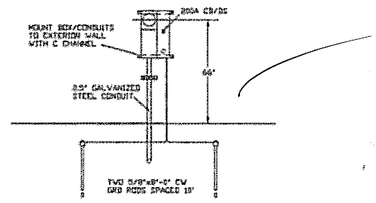


MAIN TERMINAL ELECTRICAL PLAN

SCALE: 0 2' 4' 8'

LEGEND

- Duplex Receptacle
- $ Single Pole Switch
- $_V Variable Speed Switch
- Telephone/Data Receptacle
- GFI Ground Fault Interrupter



METER/DS BOX DETAIL

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

DESIGNED BY:

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

STATE OF ALASKA 49th FRANK MICHAEL CARSEN E.E. 9804 ELECTRICAL 3/8/05

Coffman Cove Ferry Terminal
Project 67844

CHECKED BY:
DRAWN BY:
PATH:
PLOT:

REVISIONS NO.	DATE	DESCRIPTION	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			67844	2005	E-1	36

✓ gm 2/07

PANEL SCHEDULE

VOLTAGE: 208/120 V 4 WIRE
AIC: 10000 A

TYPE: 225 A MAIN LUGS
SPACES: 42

CKT	WIRE	DESCRIPTION	CB	KVA CKT	A PH	B PH	C PH	CKT	CB	DESCRIPTION	WIRE	CKT
1	2#12	Water Heater	20/1	1.50	3.00			1.50	20/1	Office Heater	2#12	2
3	2#12	Ticketing Heater	20/1	1.50		3.00		1.50	20/1	Mech. Room Htr.	2#12	4
5	2#12	Bathroom 1 Htr.	20/1	1.50			3.00	1.50	20/1	Bathroom 2 Htr.	2#12	6
7	2#12	Oil Heater 1	20/1	0.50	1.00			0.50	20/1	Oil Heater 2	2#12	8
9	2#12	Ceiling Fans	20/1	0.60		0.80		0.20	20/1	Bathroom Fans	2#12	10
11	3#12	Coffee Maker	20/2	1.50			2.22	0.72	20/1	Vending Machines	2#12	12
13				1.50	2.22			0.72	20/1	Bathroom Rec.	2#12	14
15	2#12	Ticketing Rec. 1	20/1	1.54		2.80		1.26	20/1	Waiting Rm Rec. 1	2#12	16
17	2#12	Ticketing Rec. 2	20/1	1.44			2.70	1.26	20/1	Waiting Rm Rec. 2	2#12	18
19	2#12	Office Recept.	20/1	1.54	2.26			0.72	20/1	Outdoor Recept	2#12	20
21	2#12	Janitor Rm Rec.	20/1	1.00		2.80		1.80	20/1	Lights	2#12	22
23	2#12	Lights	20/1	1.80			3.60	1.80	20/1	Lights	2#12	24
25	2#12	Lights	20/1	1.80	1.80			0.00	20/1	Spare	2#12	26
27												28
29												30
31												32
33												34
35												36
37												38
39												40
41												42
				TOTAL	10.28	9.40	11.52					

NOTES:

1. All materials and installation shall conform to the requirements of the Underwriters Laboratories, the National Electrical Code, latest edition, and local codes and regulations.

2. An underground type 200 A 120/208 V three phase combination meter and service disconnect box shall be provided for service equipment. The service disconnect shall be a 200 A molded case circuit breaker. Service equipment shall be Circle AW U2M2R7 or approved equal and shall be installed in accordance with Alaska Power and Telephone Company Standards.

3. Wiring shall be concealed in the walls and shall conform to the requirements of NEC 330 for metal clad (MC) cable or NEC 358 for electrical metallic tubing(EMT) and building codes for the type of building construction. Conductors shall be copper and shall have Type THN or THHN/THWN insulation for inside work and Type XHHW insulation for feeders and outside work. All wiring devices shall be screw connected and specification grade and shall be installed at the following locations: switches 45" above floor and receptacles 12" above floor or 6" above counters.

4. Main distribution panel shall be a 225 A 42 space main lugs only type panelboard with molded case circuit breakers and copper bus, Square D NQOD442L225CU or approved equal.

5. All equipment shall be grounded in accordance with Article 250 of the NEC. Metal raceway between service disconnect and panel shall be bonded. GFI outlets shall be provided where required by the NEC.

6. The contractor shall verify equipment and panel loads and adjust circuit breaker and conductor sizes where necessary.

7. Two Category 5E UTP grade cables in a raceway shall be installed between each telephone/data receptacle location and the telephone and data center enclosure. A 4"x2" deep box shall be provided at each telephone/data receptacle location. Each box shall contain a plate with a terminated jack for the telephone cable and a terminated jack for data cable. Telephone and data center enclosure shall be Leviton Structured Media Center Series 280 or approved equal. 25 pair Category 5E telephone cable shall be installed between the telephone and data center enclosure and the telephone and data service N.I.D.

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

DESIGNED BY:

STATE OF ALASKA 49th — FRANK MICHAEL CANTOR JR. E.E. 5604 — ELECTRICAL — 5/6/05

CHECKED BY:
DRAWN BY:
PATH:
PLOT:

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

Coffman Cove Ferry Terminal
Project 67844

REVISIONS NO.	DATE	DESCRIPTION	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			67844	2005	E-2	36

✓ 2/07

LEGEND

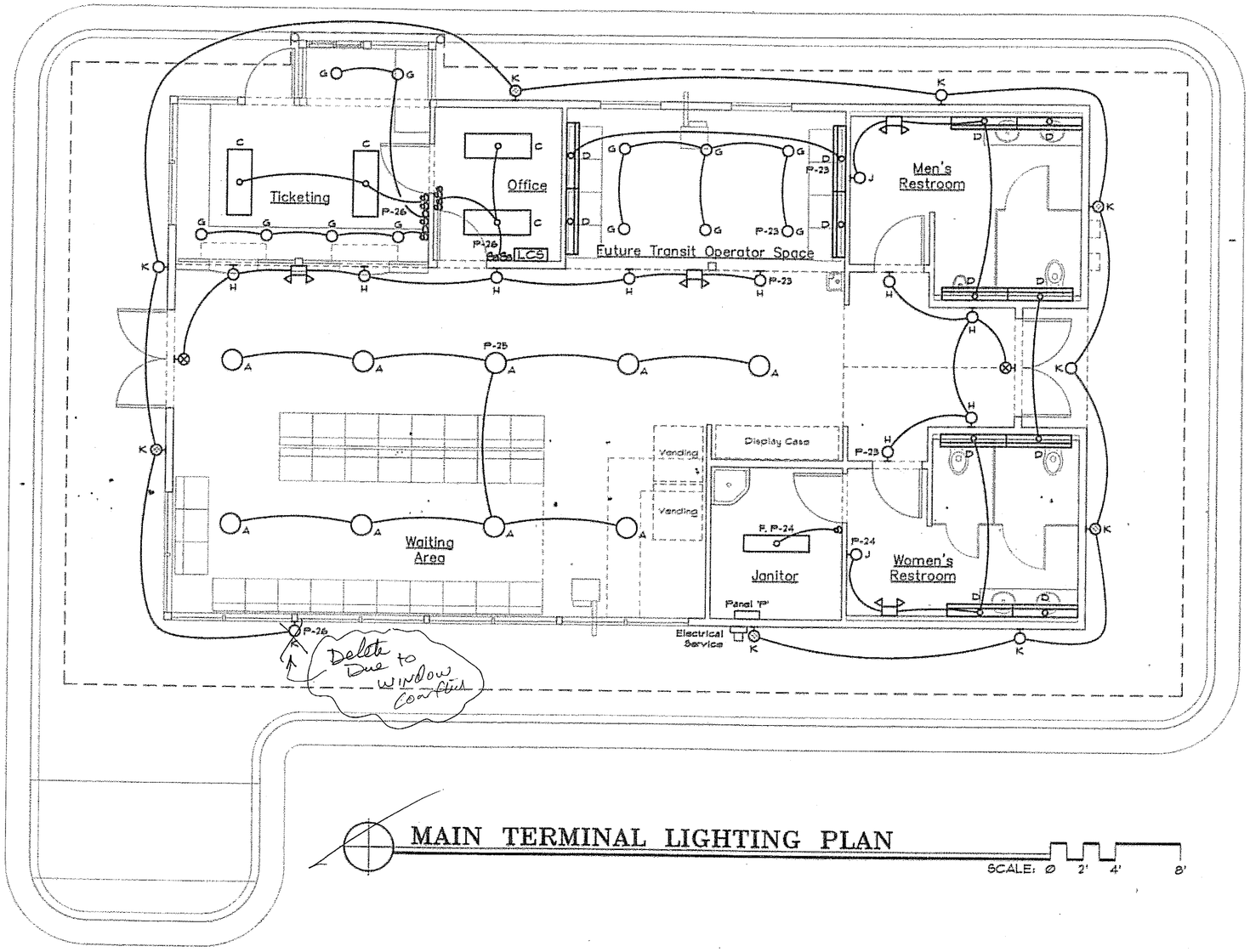
S	SINGLE POLE SWITCH; 48" AFF, UON
S3	THREE-WAY SWITCH; 48" AFF, UON
S6	SPEED CONTROL SWITCH; 48" AFF, UON
LCS	LIGHTING CONTROL STATION
	SURFACE MOUNT FLUORESCENT
	WALL MOUNT FLUORESCENT
	DOWNLIGHT or SURFACE MOUNT
	WALL MOUNT LIGHT
	WALL MOUNT EXIT SIGN/LIGHT, 96" AFF, UON
	EMERGENCY LIGHT
J	JUNCTION BOX
M	MOTOR CONNECTION
AFF	ABOVE FINISHED FLOOR
CF	CEILING FAN/LIGHT
ELC	EXTERIOR LIGHTING CONTROLS
Em	EQUIP WITH EMERGENCY BALLAST
NS	NOT SWITCHED
PE	PHOTOELECTRIC CELL
TC	TIME CLOCK

LIGHTING CONTROL SCHEDULE

ROOM NAME	CONTROLLER LABEL	LUMINAIRE TYPE	LUMINAIRE QUANTITY	CONTROL(S)	CONTROL CIRCUIT	LIGHTING CIRCUIT
ENTRY	SCONCES	H: Compact Fluorescent Sconces	4	Single-pole Switch	a	P-23
WAITING AREA	PENDANTS	A: Compact Fluorescent Up/Downlight	9	Single-pole Switch	b	P-25
WAITING AREA	SCONCES	H: Compact Fluorescent Sconces	5	Single-pole Switch	c	P-23
WAITING AREA	CEILING FAN LIGHT	Ceiling Paddle Fan Light	2	Single-pole Switch	d	P-9
WAITING AREA	CEILING FAN	Ceiling Paddle Fan	2	Speed Control Switch	e	P-9
TOILETS	TOILETS	D: Fluorescent Wall Mount	8	Single-pole Switch	f	P-24
TOILETS		J: Compact Fluorescent Sconces	2			
TRANSIT OPERATOR	DOWNLIGHTS	G: Compact Fluorescent Downlight	6	Single-pole Switch	g	P-23
TRANSIT OPERATOR	SCONCES	D: Fluorescent Wall Mount	4	Single-pole Switch	h	P-23
EXTERIOR	EXTERIOR	K: Compact Fluorescent Wall/Downlight	10	Single-pole Switch	i	P-26
SPARE	SPARE	Spare	--	As required	j	

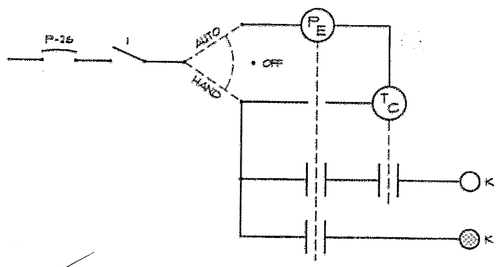
LUMINAIRE SCHEDULE

TYPE	DESCRIPTION	MANUFACTURER	LAMPS	REMARKS
A	Compact fluorescent conical pendant w/matte acrylic bowl, one piece stem, sloped adapter	Shaper 444 Series 444-21-CFL/(4F42)-120V	(4) 42TRT 8P35	Finishes by Architect.
B	Not Used			
C	Specification grade surface fluorescent w/frosted lens, perforated wing optics and electronic ballast	Metalux Aerial ARL 228T5-FL-RPU/RPD-UNV-EBTI	(2) 28W T5 FP28/835	Equip with factory end caps.
D	Fluorescent indirect wall mount with asymmetric distribution, steel housing, perforated finish	Corelite 'Class A' AW-SP-2T8-IC-120-SU-WA	(2) FO32T8 8P35	Wall mount above mirror in the Toilets and 78" AFF elsewhere.
E	Emergency light with high impact polycarbonate housing, polycarbonate domes, modular wiring	Sure-Lites CU-1-HD-FCL	(2) 5.4W Incandescent	
F	Fluorescent modular wraparound with steel body and acrylic refractor lens	Metalux SA-232A-120V-ERBI	(2) FO32T8 8P35	
G	Compact fluorescent downlight with cross blade louver and low iridescent reflector	Portfolio C8526-E-8551-LI	(2) 26TRT 8P35	
H	Fluorescent indirect/asymmetric wall mount w/steel housing, die-cast end caps, round perforations	Neo-Ray Nimbus I 601 Series 601W-275-IEB-RP	(2) 28W T5 FP28/835	Wall mount as shown.
J	Compact fluorescent decorative sconce w/curved luminous acrylic shield, acrylic top & bottom covers	Shaper 662 Series 662-12-CFL/2(26)-120V	(2) 26TRT 8P35	Finishes and mounting height by Architect.
K	Compact fluorescent wall/ceiling mount w/cast housing, tempered glass lens w/matte finish	Fail-Safe RCS-12-42CT-DT	(1) 42TRT 8P35	Finishes by Architect.
X	Self-powered edgelit exit sign w/LED lamps, nickel cadmium battery	Sure-Lites ES7170	LED's	Finishes by Architect.



MAIN TERMINAL LIGHTING PLAN

SCALE: 0 2' 4' 8'



EXTERIOR LIGHTING SCHEMATIC

NO SCALE

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

DESIGNED BY: PG
CHECKED BY: PG
DRAWN BY: TW, PG

STATE OF ALASKA
ALASKA
Patrick Gorman
EE-7978
REGISTERED PROFESSIONAL ENGINEER
2.22.05

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

Coffman Cove Ferry Terminal
Project 67844

Lighting Plan

PATH:
PLOT:

GORMAN ENGINEERS
800 GLACIER AVENUE, SUITE E
JUNEAU, ALASKA 99801-1845
PHONE: 463-6721 FAX: 586-6216
e-mail: pgorman@gci.net

REVISIONS NO.	DATE	DESCRIPTION	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			67844	2005	E-3	36

✓ 2/07

PLUMBING FIXTURE SCHEDULE*

SYMBOL	FIXTURE	MOUNTING	CW	HW	WASTE	VENT	TRAP	BASIS OF DESIGN	MODEL	COLOR/FINISH	TRIM/REMARKS
P-1	WATER CLOSET - ADA	WALL	1	—	4	2	—	KOHLER	K4330 KINGSTON	WHITE	KOHLER K-4670 ELONGATED OPEN FRONT SEAT, SLOAN MODEL 8110, 1.6 GPF, BATTERY POWERED, SENSOR OPERATED FLUSH VALVE, WALL CARRIER.
P-2	WATER CLOSET	WALL	1	—	4	2	—	KOHLER	K4330 KINGSTON	WHITE	KOHLER K-4670 ELONGATED OPEN FRONT SEAT, SLOAN MODEL 8110, 1.6 GPF, BATTERY POWERED, SENSOR OPERATED FLUSH VALVE, WALL CARRIER.
P-3	URINAL - ADA	WALL	3/4	—	2	1-1/2	—	KOHLER	K-5016-ET DEXTER	WHITE	SLOAN ROYAL MODEL 8186 1.0 GPF, BATTERY POWERED, SENSOR OPERATED FLUSH VALVE, WALL CARRIER FOR HC HEIGHT.
P-4	LAVATORY	COUNTER	1/2	1/2	1-1/2	1-1/4	1-1/4	KOHLER	K-2196-4 PENNINGTON	WHITE	SYMMONS MODEL S-6080-G-DP, BATTERY POWERED, SENSOR OPERATED FAUCET WITH GRID STRAINER, FIELD ADJUSTABLE LEVER HANDLE, 8" ADAPTER PLATE.
P-5	DRINKING FOUNTAIN	WALL	1/2	—	1-1/2	1-1/2	1-1/2	HAWS	1001	STAINLESS	BARRIER FREE, SINGLE BUBBLER, FRONT PUSH BUTTON OPERATION, MODEL 6800 SUPPORT CARRIER.
P-6	SINK - JANITOR	FLOOR	1/2	1/2	3	2	3	FIAT	MSB-2424	WHITE	FIAT FAUCET 830-AA, 832 HOSE AND BRACKET, 1239 VINYL BUMPER GUARD, 889-CC MOP HANGER.
P-7	WATER CLOSET - ADA	FLOOR	1/2	—	3	2	—	KOHLER	K-3544 HIGHLINE	WHITE	KOHLER K-4670 ELONGATED OPEN FRONT SEAT, 1.6 GAL. PRESSURE ASSISTED.
P-8	UTILITY SINK	WALL	1/2	1/2	1-1/2	1-1/2	1-1/2	KOHLER	K-5980 SUTTON	WHITE	KOHLER K-7855 FAUCET WITH SOAP DISH AND WATTS MODEL 8B HOSE CONNECTION VACUUM BREAKER.
HB-1	HOSE BIBB	WALL	3/4	—	—	—	—	WOODFORD	MODEL 65	—	FROST PROOF, VACUUM BREAKER, REMOVABLE KEY HANDLE.
FD-1	FLOOR DRAIN	—	—	—	2	2	2	J.R. SMITH	2005-A	—	ROUND TOP.

ELECTRIC WATER HEATER SCHEDULE*

SYMBOL	MFGR/MODEL	STORAGE CAPACITY	RECOVERY @ 90 DEG F RISE	DIMENSIONS	ELECTRICAL DATA WATTS	ELECTRICAL DATA POWER	LABEL	REMARKS
EWH-1	BRADFORD WHITE/M-I-6U6SS	6 GALLON	7 GPH	14" DIA x 16" HIGH	1,500	120/60/1	UL	ASME PRESSURE/TEMPERATURE RELIEF VALVE, PLUG TYPE ANODE.
EWH-2	BRADFORD WHITE/M-I-6U6SS	6 GALLON	7 GPH	14" DIA x 16" HIGH	1,500	120/60/1	UL	ASME PRESSURE/TEMPERATURE RELIEF VALVE, PLUG TYPE ANODE.

FUEL OIL STORAGE TANK SCHEDULE*

SYMBOL	MFGR/MODEL	FUNCTION	MEDIUM	MATERIAL	TANK CAPACITY GALLONS	TANK CAPACITY DIMENSIONS	REMARKS
FOT-1	ACE/ACO0275N1B1	STORAGE	FUEL OIL	STEEL	275	27" x 44" OVAL x 60" LONG	16" HIGH PIPE LEGS, SINGLE WALLED STORAGE TANK, TRIM PER PLANS, WHITE URETHANE FINISH COAT.
FOT-2	ACE/ACO0300U1A1	STORAGE	FUEL OIL	STEEL	300	38" DIAMETER x 61" LONG	STEEL TANK STAND WITH LADDER, SINGLE WALLED STORAGE TANK, TRIM PER PLANS, WHITE URETHANE FINISH COAT.

EXPANSION TANK SCHEDULE*

SYMBOL	MFGR/MODEL	FUNCTION	MEDIUM	MATERIAL	TANK VOLUME	DIMENSIONS	LABEL	REMARKS
ET-1	AMTROL/ST-5	DOMESTIC	WATER	STEEL/PROPYLENE/BUTYL	2.0 GALLON	8" DIA X 12"	NSF	PRECHARGE TO INCOMING BUILDING SUPPLY PRESSURE.
ET-1	AMTROL/ST-5	DOMESTIC	WATER	STEEL/PROPYLENE/BUTYL	2.0 GALLON	8" DIA X 12"	NSF	PRECHARGE TO INCOMING BUILDING SUPPLY PRESSURE.

FAN SCHEDULE*

SYMBOL	MFGR/MODEL	TYPE	SERVICE	CFM	TSP IN W.C.	RPM	MOTOR DATA WATTS	MOTOR DATA POWER	DRIVE	SONES	REMARKS
TEF-1	COOK/CG-150	CEILING CABINET	TOILET EXHAUST	150	0.125	1,321	93	120/60/1	DIRECT	<5	WHITE PLASTIC GRILLE, WALL CAP WITH BACKDRAFT DAMPER AND BIRD SCREEN.
TEF-2	COOK/GC-120	CEILING CABINET	TOILET EXHAUST	75	0.125	1,200	29	120/60/1	DIRECT	<5	WHITE PLASTIC GRILLE, WALL CAP WITH BACKDRAFT DAMPER AND BIRD SCREEN.
TF-1	PENN/TRANSFAN	WALL	TRANSFER AIR	225	—	1,490	—	120/60/1	DIRECT	<3	WHITE PLASTIC WALL GRILLE, INTEGRAL SPEED CONTROLLER.
CF-1	MODERN FAN/MF309	PADDLE	DESTRATIFICATION	10,000	—	188	1.0 FLA	120/60/1	DIRECT	N/A	52" BLADES, 24" DROP, BRUSHED ALUMINUM FINISH, MF005 FAN SPEED CONTROLLER.
CF-2	LEADING EDGE/5600-1LC	PADDLE	DESTRATIFICATION	25,000	—	265	1.0 FLA	120/60/1	DIRECT	N/A	56" BLADES, 33" DROP, WHITE FINISH, MODEL 12003 FAN SPEED CONTROLLER.

OIL HEATER SCHEDULE*

SYMBOL	MFGR/MODEL	FUEL TYPE	HEATING EFFICIENCY	HEAT OUTPUT (BTUH) HIGH	HEAT OUTPUT (BTUH) MEDIUM	HEAT OUTPUT (BTUH) LOW	POWER	REMARKS
OH-1	TOYOTOMI/LASER 73	NO. 1 DIESEL	87% (AFUE)	40,000	27,000	15,000	120/60/1	PROVIDE WITH DRIP PAN ASSEMBLY, WALL BRACE KIT, WALL FLUE/INTAKE ASSEMBLY, REMOTE SENSOR.

DOOR GRILLE SCHEDULE*

SYMBOL	MFGR/MODEL	SERVICE	FACE SIZE	MATERIAL	COLOR	REMARKS
(A)	TITUS/T700B	DOOR TRANSFER AIR GRILLE	12/12	20 GAUGE STEEL	WHITE	SURFACE MOUNT FRAME, PROVIDE AUXILIARY FRAME.

WALL HEATER SCHEDULE*

SYMBOL	MFGR/MODEL	WATTS	BTUH	FAN CFM	FAN RPM	AMPS	POWER	LABEL	REMARKS
WH-1	MARKEL/E3323TTD-RP	1,500	5,120	175	600	12.5	120/60/1	UL	POWERED COATED 18 GAUGE STEEL CONSTRUCTION, INTEGRAL THERMAL RESET, THERMOSTAT, DISCONNECT SWITCH, FAN DELAY SWITCH.

LEGEND

- HOT WATER
- COLD WATER
- WASTE PIPING
- VENT PIPING
- FDS — FUEL OIL SUPPLY
- PIPE UP
- PIPE DOWN
- TEE UP
- TEE DOWN
- UNION
- DIRECTION OF FLOW
- ISOLATION VALVE
- CHECK VALVE
- PRESSURE/TEMPERATURE RELIEF VALVE
- HOSE BIBB
- INSULATED DUCTWORK
- EXHAUST UP AND DOWN
- (T) THERMOSTAT OR SENSOR
- f_V VARIABLE SPEED CONTROL

* ALL EQUIPMENT LISTED IS REPRESENTATIVE OF THE STANDARD OF QUALITY AND PERFORMANCE REQUIRED. OR EQUAL SUBSTITUTIONS WILL BE CONSIDERED IF THE SUBSTITUTE EQUIPMENT SUBMITTED ARE SHOWN TO BE EQUAL OR BETTER QUALITY, INCLUDING EFFICIENCY OF PERFORMANCE, SIZE AND WEIGHT.

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

DESIGNED BY: WLW

STATE OF ALASKA · 49TH · Mark W Ringstad · M.W. BERGSTEDT · ME-R142 · REGISTERED PROFESSIONAL ENGINEER · 2-22-05

CHECKED BY: MWB

DRAWN BY: WLW

PATH

PLOT:

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

Coffman Cove Ferry Terminal
Project 67844

MECHANICAL SCHEDULES AND LEGEND

NO.	DATE	REVISIONS DESCRIPTION	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			67844	2004	M1	36

Feb 28, 2005 - 9:15pm G:\2004\4-42103\42103-M1.dwg

✓ GB 2/07

SPECIFICATIONS:

PLANS – THE CONTRACTOR SHALL PROVIDE ALL MATERIALS AND LABOR NECESSARY FOR A COMPLETE AND OPERABLE SYSTEM. THE DRAWINGS ARE PARTLY DIAGRAMMATIC, NOT NECESSARILY SHOWING ALL OFFSETS OR EXACT LOCATIONS OF PIPING AND DUCTS, UNLESS SPECIFICALLY DIMENSIONED.

COMPLETE PROJECT – THE INTENT OF THIS PROJECT IS TO LET ONE CONTRACT WHICH INCLUDES ALL WORK REQUIRED FOR A COMPLETE JOB.

PERMITS – THE CONTRACTOR SHALL SECURE AND PAY FOR ALL NECESSARY PERMITS AND FEES.

CODE – ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE LATEST ADOPTED EDITION OF THE INTERNATIONAL BUILDING CODE (IBC), INTERNATIONAL MECHANICAL CODE (IMC) AND UNIFORM PLUMBING CODE (UPC) AND NATIONAL ELECTRICAL CODE (NEC) AS AMENDED BY THE STATE OF ALASKA. SHEET METAL WORK SHALL BE DONE IN ACCORDANCE WITH SMACNA STANDARDS.

INSURANCE – CONTRACTOR MUST PROVIDE BUILDERS ALL RISK INSURANCE, WORKER'S COMPENSATION INSURANCE, AND GENERAL LIABILITY INSURANCE AT ALL TIMES WHILE WORKING ON THIS PROJECT.

EQUIPMENT SUBSTITUTIONS – ALL EQUIPMENT LISTED IS REPRESENTATIVE OF THE STANDARD OF QUALITY AND PERFORMANCE REQUIRED. OR EQUAL SUBSTITUTIONS WILL BE CONSIDERED IF THE SUBSTITUTE CATALOG CUTS ARE SUBMITTED AND ARE SHOWN TO BE EQUAL OR BETTER QUALITY, INCLUDING EFFICIENCY OF PERFORMANCE, SIZE AND WEIGHT.

WARRANTY – ALL WORK PERFORMED UNDER THIS CONTRACT TO BE FREE FROM DEFECTS IN MATERIALS AND WORKMANSHIP FOR A PERIOD OF ONE YEAR FROM ACCEPTANCE. ANY FAULTY MATERIALS OR WORKMANSHIP SHALL BE REPAIRED OR REPLACED TO THE SATISFACTION OF THE OWNER DURING THE GUARANTEE PERIOD.

ELECTRICAL WORK – ALL ELECTRICAL WORK IS TO BE PERFORMED BY A LICENSED ELECTRICIAN. IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE, NEC.

MATERIALS – ALL MATERIALS OTHER THAN OWNER SUPPLIED SHALL BE NEW AND UNUSED, INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S DIRECTIONS AND IN THE BEST PRACTICE OF THE CRAFT. OBTAIN OWNER'S APPROVAL OF ALL PRODUCTS PRIOR TO ORDERING OR INSTALLING ANY PART OF ANY SYSTEM.

SUBMITTALS – SUBMITTALS SHALL BE IN BOOKLET FORM. THE DATA SHALL BE ARRANGED AND INDEXED UNDER BASIC CATEGORIES. SUBMIT ON OIL FIRED HEATERS, EXHAUST FANS, TRANSFER FANS, FUEL OIL STORAGE TANKS AND TRIM, VALVES, DOMESTIC WATER PIPING, FUEL OIL PIPING, VALVES, UNIONS, FLANGES, PIPING SUPPORTS AND ANCHORS, AND INSULATION AND INSULATION ACCESSORIES.

BALANCE – THE CONTRACTOR SHALL BALANCE THE AIR SYSTEM TO THE SATISFACTION OF THE OWNER PER AABC RECOMMENDED METHODS.

OPERATION AND MAINTENANCE MANUAL – PROVIDE THE OWNER WITH AN OPERATING AND MAINTENANCE MANUAL, TO INCLUDE MANUFACTURER'S SPECIFICATIONS, OPERATING AND MAINTENANCE INSTRUCTIONS, WARRANTY INFORMATION ON EACH PIECE OF EQUIPMENT AS WELL AS A SOURCE OF SUPPLY FOR SPARE PARTS AND SERVICE.

ACCESS – PROVIDE WORKABLE ACCESS TO ALL SERVICEABLE AND/OR OPERABLE EQUIPMENT.

TEST AND START–UP – TEST ALL PLUMBING AND PIPING SYSTEMS IN ACCORDANCE WITH THE UNIFORM PLUMBING CODE.

EQUIPMENT INSTALLATION: INSTALL ALL EQUIPMENT WHERE NOTED ON THE DRAWINGS IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS. PROVIDE MISCELLANEOUS APPURTENANCES, ACCESSORIES, SUPPORTS AND CONTROL CONNECTIONS REQUIRED FOR COMPLETE AND OPERATING SYSTEMS. MAINTAIN MANUFACTURER'S RECOMMENDED SERVICE CLEARANCES.

ISOLATION VALVES – BRONZE TWO PIECE BODY, FULL PORT, FORGED BRASS, CHROME PLATED BALL, TEFLON SEATS AND STUFFING BOX RING, BLOW–OUT PROOF STEM, LEVER HANDLE, SOLDER OR THREADED ENDS.

SWING CHECK VALVES – CLASS 125, BRONZE SWING DISC, SOLDER OR SCREWED ENDS.

BURIED WASTE PIPING – CAST IRON PIPE: ASTM A74 SERVICE WEIGHT. FITTINGS: CAST IRON. JOINTS: HUB–AND–SPIGOT, CISPI HSN COMPRESSION TYPE WITH ASTM C564 NEOPRENE GASKETS. CAST IRON PIPE: CISPI 301, HUBLESS, SERVICE WEIGHT. FITTINGS: CAST IRON. JOINTS: NEOPRENE GASKETS AND STAINLESS STEEL CLAMP–AND–SHIELD ASSEMBLIES.

ABOVE GRADE WASTE PIPING:
CAST IRON PIPE: CISPI 301, HUBLESS, SERVICE WEIGHT. FITTINGS: CAST IRON. JOINTS: CISPI 310, NEOPRENE GASKETS AND STAINLESS STEEL CLAMP–AND–SHIELD ASSEMBLIES.

COPPER PIPE: ASTM B306, DWV. FITTINGS: ASME B16.3, CAST BRONZE, OR ASME B16.29, WROUGHT COPPER (DWV). JOINTS: ANSI/ASTM B32, SOLDER: GRADE 95TA; FLUX: ASTM B813.

ABS PIPE: ASTM D2751. FITTINGS: ABS. JOINTS: ASTM D2235, SOLVENT WELD.

DOMESTIC WATER PIPING, ABOVE GROUND – COPPER TUBING: ASTM B88, TYPE L, HARD DRAWN. FITTINGS: ASME B16.18 CAST BRONZE OR ASME B16.22 WROUGHT COPPER. JOINTS: ASTM B32, LEAD FREE SOLDER, WATER SOLUBLE FLUX OR VIEGA, PRO PRESS SYSTEM. IAPMO LISTED PEX WATER PIPING SYSTEM..

AIR CHAMBERS – 3/4" DIAMETER, 10" TALL, TYPE L COPPER WITH FACTORY SPUN CLOSED END, SIOUX CHIEF ITEM NUMBER 623–L10 OR EQUAL.

FUEL OIL PIPING, ABOVE GROUND – SCHEDULE 40 BLACK. FITTINGS: ANSI/ASTM B16.3, MALLEABLE IRON, OR ASTM A234, STEEL WELDING TYPE. JOINTS: SCREWED. COPPER TUBING: ASTM B88, TYPE K, HARD DRAWN. FITTINGS: ANSI/ASME B16.18, CAST BRONZE, OR ANSI/ASME B16.29, WROUGHT COPPER. JOINTS: FLARE.

FUEL OIL PIPING, BURIED – UL LISTED DOUBLE WALL FLEXIBLE SUPPLY PIPING SYSTEM DESIGNED FOR DIRECT INSTALLED WITHIN A FLEXIBLE CORRUGATED CARRIER. GEOFLEX–D PIPING AND GEODUCT CARRIER AS MANUFACTURED BY ENVIRON OR APPROVED EQUAL.

FLANGES, UNIONS, AND COUPLINGS – 150 PSIG MALLEABLE IRON UNIONS FOR THREADED FERROUS PIPING; BRONZE UNIONS FOR COPPER PIPE, SOLDERED JOINTS.

PIPE HANGERS AND SUPPORTS – DESIGNED AND INSTALLED IN ACCORDANCE WITH THE UNIFORM PLUMBING CODE (UPC).

DIAPHRAGM–TYPE COMPRESSION TANKS – CONSTRUCTION: WELDED STEEL, RATED FOR WORKING PRESSURE OF 150 PSIG, WITH FLEXIBLE BUTYL DIAPHRAGM AND POLYPROPYLENE LINER.

DUCTWORK – PROVIDE GALVANIZED SHEETMETAL RECTANGULAR OR ROUND DUCT WHERE CALLED OUT ON THE PLANS.

STEEL DUCTS – ASTM A527 GALVANIZED STEEL SHEET, LOCK–FORMING QUALITY, HAVING ZINC COATING OF 1.25 OZ. PER SQ. FT. FOR EACH SIDE IN CONFORMANCE WITH ASTM A90.

PIPING INSULATION – ABOVE GRADE – GLASS FIBER, RIGID, MOLDED, NON–COMBUSTIBLE INSULATION; ANSI/ASTM C547; 'K' VALUE OF 0.24 AT 75 DEG F, RATED TO 850 DEG F, VAPOR RETARDER JACKET OF KRAFT PAPER BONDED TO ALUMINUM FOIL; SCHULLER "MICRO–LOK" OR EQUAL.

PIPING INSULATION – BURIED – ELASTOMERIC FOAM, RUBATEX R–180–FS/R–1800–FS, ASTM C534, FLEXIBLE, CELLULAR ELASTOMERIC, K = .28 @ 75 DEG F, MAX. SERVICE TEMPERATURE; 220 DEG F, MAX. FLAME SPREAD = 50, MAX. SMOKE DEVELOPED = 50

DUCTWORK INSULATION – FLEXIBLE GLASS FIBER; ANSI/ASTM C553; COMMERCIAL GRADE; 'K' VALUE OF 0.27 AT 75 DEG F; RIGID FIBER BOARD; ANSI/ASTM C612, 'K' VALUE OF 0.24 AT 75 DEG F, 3.0 LB./CU. FT. DENSITY. 0.00035 INCH FOIL SCRIM FACING. MINIMUM THERMAL PERFORMANCE SHALL BE R=4.8. SCHULLER "MICROLITE DUCT WRAP" OR EQUAL.

PVC JACKETS: ONE PIECE, PRE–MOLDED TYPE, SCHULLER ZESTON 2000, FITTING COVERS AND JACKETING MATERIAL. PROVIDE PVC JACKETS ON ALL EXPOSED PLUMBING PIPING.

DIELECTRIC CONNECTIONS: UNION WITH GALVANIZED OR PLATED STEEL THREADED END, COPPER SOLDER END, WATER IMPERVIOUS ISOLATION BARRIER.

SEQUENCE OF OPERATION:

ELECTRIC WATER HEATERS – INTEGRAL AQUASTAT SHALL MAINTAIN SETPOINT INITIALLY SET TO 120 DEG F AT OUTLET (ADJUSTABLE).

CEILING PADDLE FANS – FAN SHALL BE CONTROLLER BY A WALL MOUNTED, ON–OFF–VARIABLE SPEED FAN CONTROLLER.

TOILET EXHAUST FANS – TEF–1 – FANS SHALL RUN CONTINUOUSLY.

TOILET EXHAUST FAN – TEF–2 – SHALL BE SWITCHED WITH LOCAL LIGHTING.

TRANSFER AIR FANS TF–1 – FANS SHALL RUN CONTINUOUSLY.

ELECTRIC WALL HEATER EWH–1 – INTEGRAL THERMOSTAT SHALL CYCLE HEATING ELEMENTS ON AND OFF AS REQUIRED TO MAINTAIN SETPOINT, INITIALLY SET TO 65 DEG F (ADJUSTABLE).

OIL FIRED SPACE HEATER – OH–1 – INTEGRAL THERMOSTAT SHALL CYCLE UNIT ON AND OFF AS REQUIRED TO MAINTAIN SETPOINT, INITIALLY SET TO 70 DEG F (ADJUSTABLE). NIGHT TIME SET BACK SHALL BE PROGRAMMED TO OWNERS SCHEDULING REQUIREMENTS.

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

DESIGNED BY: WLW

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

CHECKED BY: MWB
DRAWN BY: WLW
PATH:
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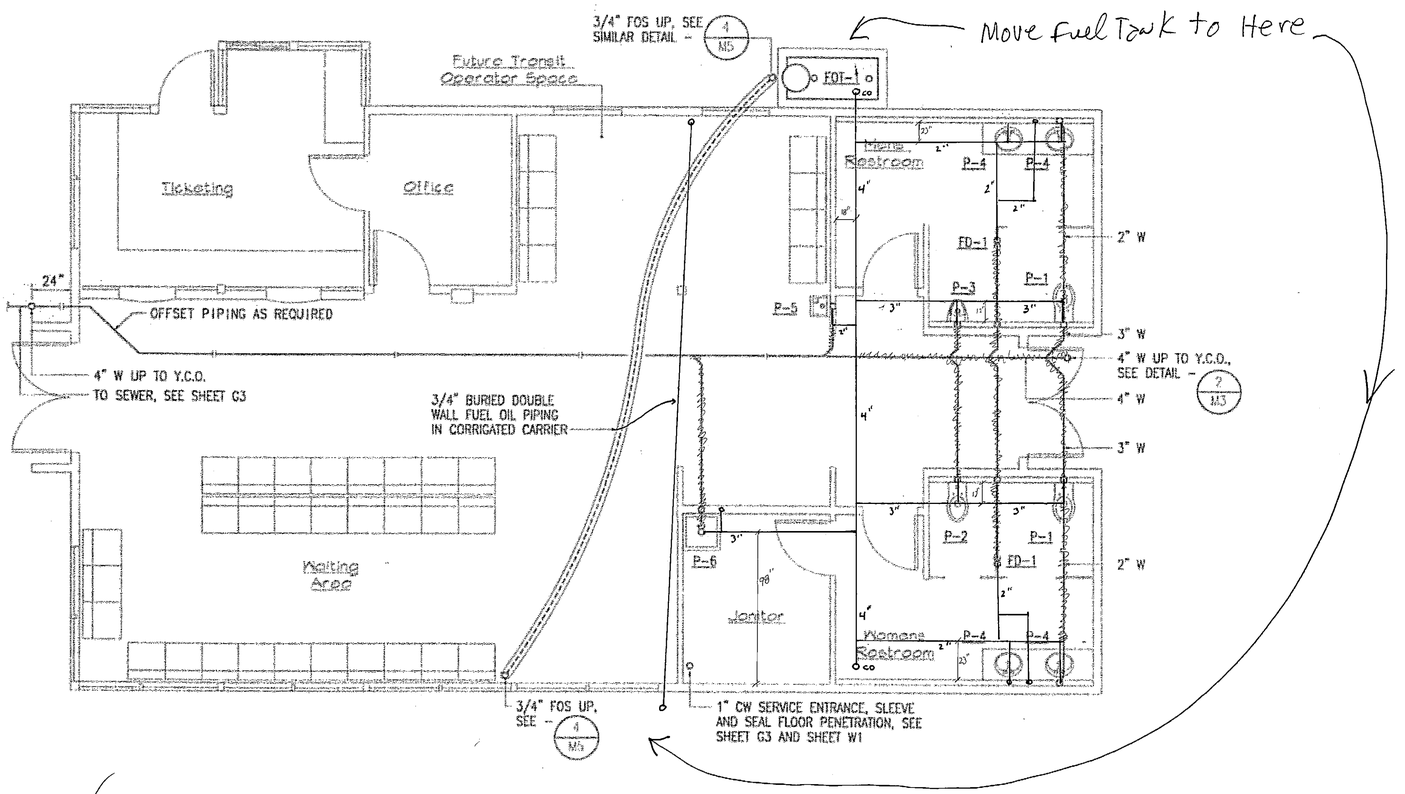
Coffman Cove Ferry Terminal
Project 67844

MECHANICAL SPECIFICATIONS AND SEQUENCE OF OPERATION

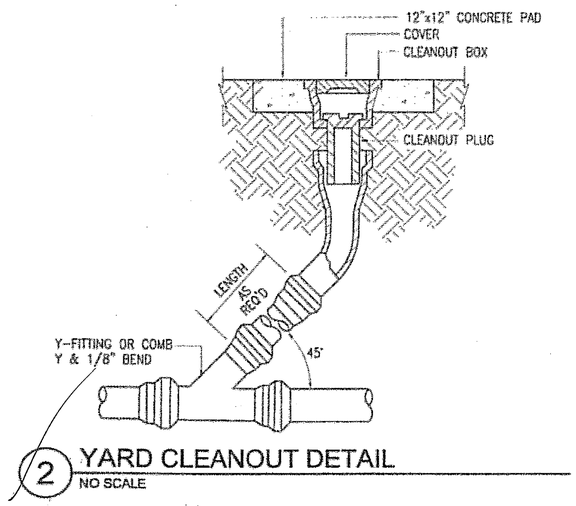
REVISIONS NO.	DATE	DESCRIPTION	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			67844	2004	M2	36

✓ GMB 2/07

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1 UNDERSLAB PLUMBING PLAN
1/4" = 1'-0"



2 YARD CLEANOUT DETAIL
NO SCALE

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

DESIGNED BY: MLW

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
& PUBLIC FACILITIES
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Coffman Cove Ferry Terminal
Project 67844

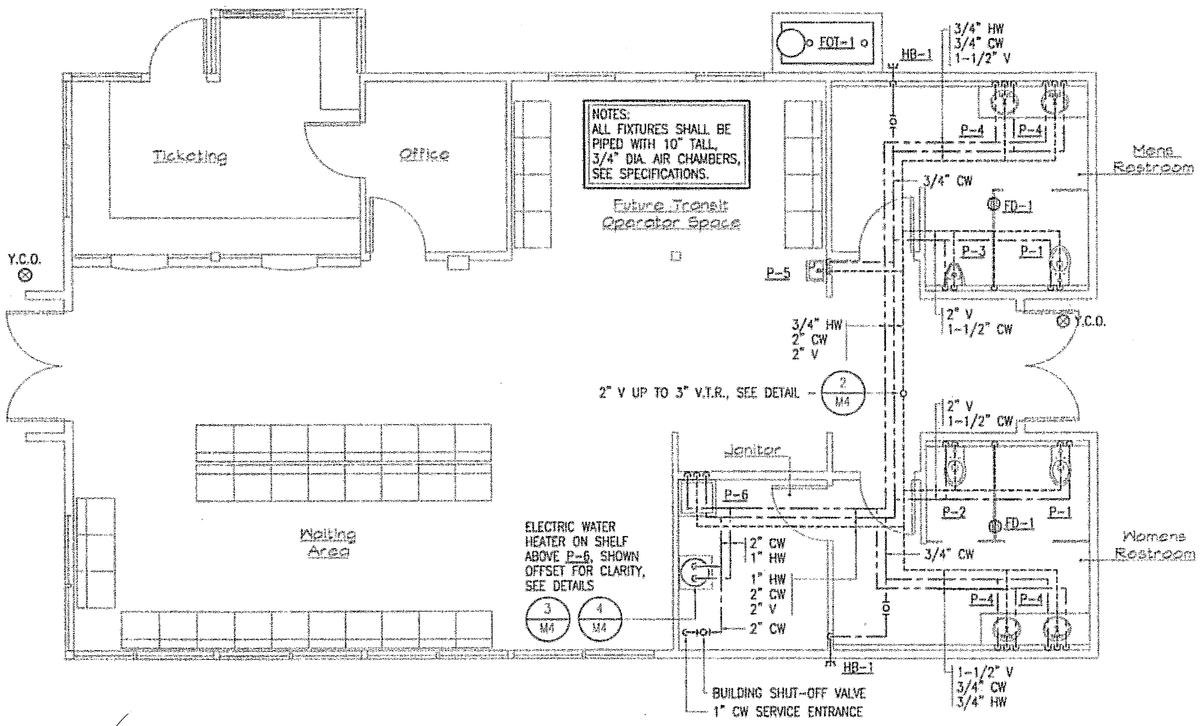
UNDERSLAB PLUMBING PLAN AND DETAILS

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DRAWN BY: MLW
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PLOT:

REVISIONS NO.	DATE	DESCRIPTION	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			67844	2004	M3	36

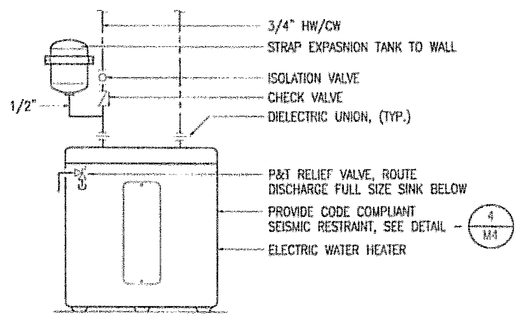
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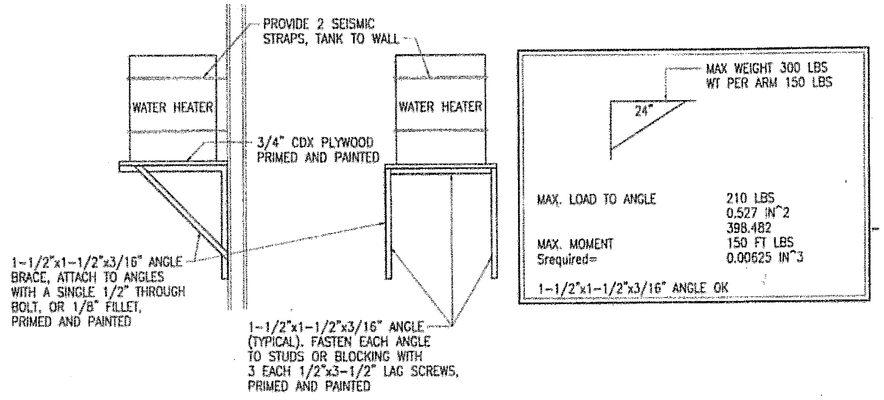


1 PLUMBING PLAN
1/4" = 1'-0"

2 VENT THROUGH ROOF DETAIL
NO SCALE



3 WATER HEATER PIPING DETAIL
NO SCALE



4 WATER HEATER SUPPORT DETAIL
NO SCALE

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

DESIGNED BY: WLW
CHECKED BY: MWB
DRAWN BY: WLW
PATH:
PLOT:

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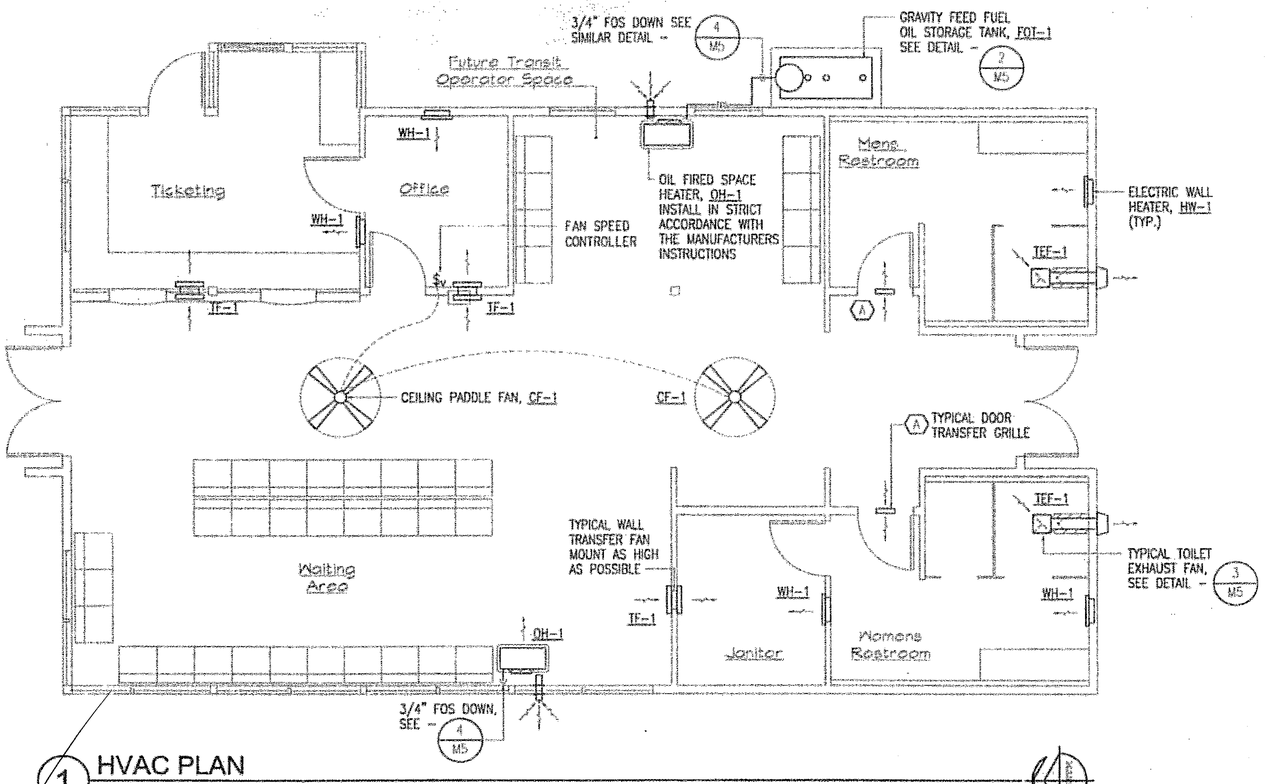
Coffman Cove Ferry Terminal
Project 67844

PLUMBING PLAN AND DETAILS

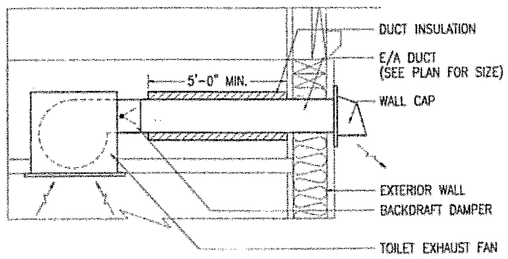
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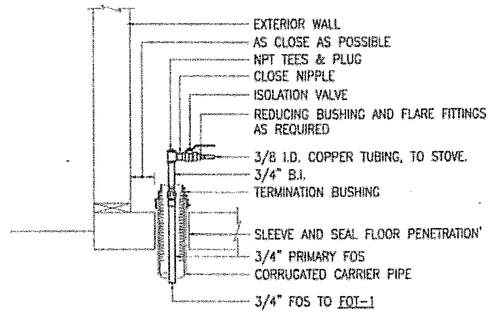
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1 HVAC PLAN
1/4" = 1'-0"

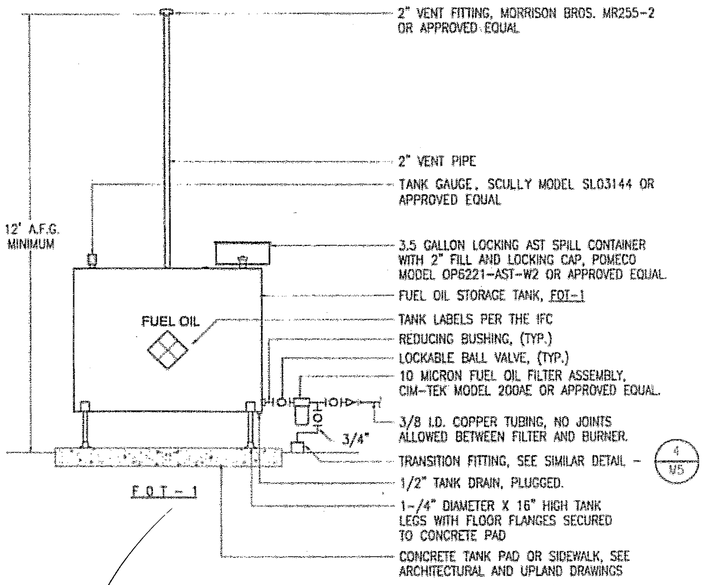


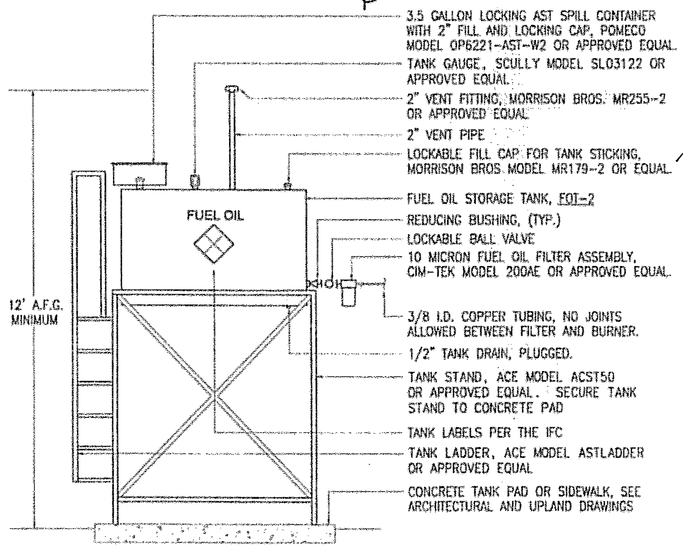
3 TOILET EXHAUST FAN DETAIL
NO SCALE



NOTE: TRANSITION FITTING AT FUEL OIL TANK, FOT-1 IS SIMILAR. PIPING FROM FUEL FILTER OUTLET TO TRANSITION SHALL BE 3/4" B.I.

4 FUEL OIL TRANSITION FITTING
NO SCALE





2 FUEL OIL STORAGE TANK PIPING DETAIL
NO SCALE

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DRAWN BY: WLW
CHECKED BY: MWS
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Coffman Cove Ferry Terminal
Project 67844

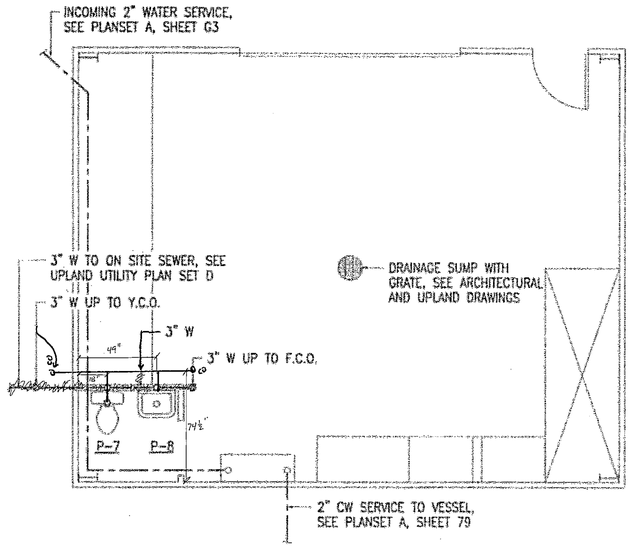
HVAC PLAN AND DETAILS

NO.	DATE	REVISIONS DESCRIPTION

PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
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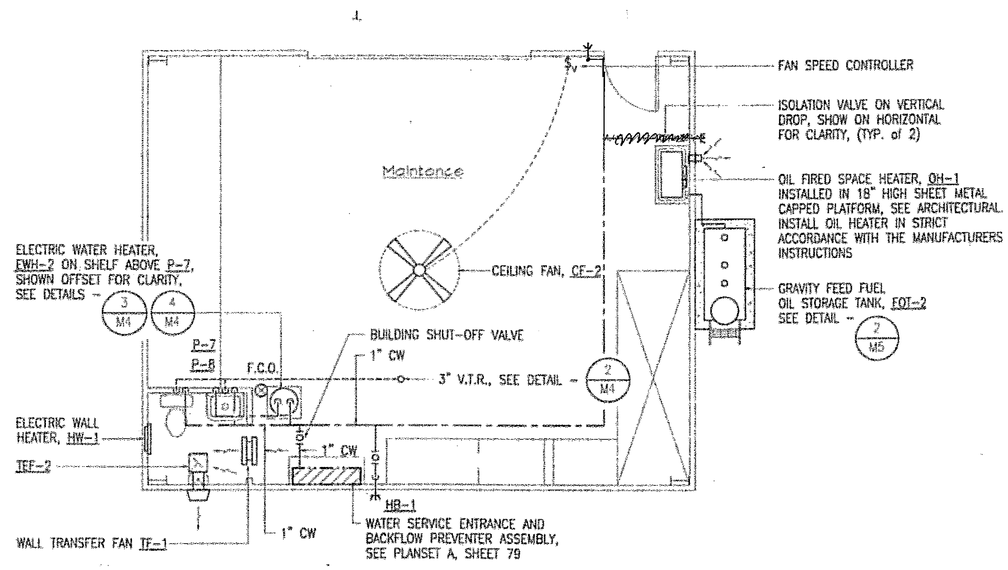
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1 UNDERSLAB PLUMBING PLAN
1/4" = 1'-0"

NOTE:
ELECTRICAL WORK IN THIS BUILDING IS INDICATED ON THE UPLANDS ELECTRIC PLANS.



2 PLUMBING AND HVAC PLAN
1/4" = 1'-0"

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DRAWN BY: MLW
CHECKED BY: MWB
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PLOT:

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Project 67844

MAINTENACE BUILDING PLUMBING AND HVAC PLANS

REVISIONS NO	DATE	DESCRIPTION	PROJECT DESIGNATION	YEAR	SHEET NO	TOTAL SHEETS
			67844	2004	M6	36

✓ gm 2/07

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STRUCTURAL GENERAL NOTES

1. DESIGN BASIS: All materials, workmanship, design, and construction shall conform to the drawings, specifications, and the following codes:
International Building Code 2003 (IBC)
AISC Manual of Steel Construction, LRFD 3rd Ed
National Design Specification for Wood Construction, 2001 Ed
ASCE Minimum Design Loads for Buildings & Other Structures, 7-98

2. DESIGN LOADS:
Roof dead load = 15 psf
Collateral load = 5 psf
Snow loads-
i. ground pg = 60 psf
ii. balanced ps = 46 psf
iii. unbalanced = 14 psf, 76 psf (clerestory)
= 0 psf, 70 psf (gable)
iv. leeward drift on lower roof = 46 psf, w = 8.4 ft
Floor live load = 100 psf
Wind -
V = 120 mph (3-sec), Exposure C, Iw = 1.0, Enclosed
Earthquake -
Ss = 0.24g, S1 = 0.20g, Use Group I, Site Class D, Ie = 1.0

3. STRUCTURAL DRAWINGS shall be used in conjunction with architectural and all other disciplines' drawings for bidding and construction. Contractor shall verify dimensions and conditions for compatibility and shall notify Architect of any discrepancies or conflicts prior to construction.

4. BRACING: Contractor shall provide temporary erection bracing for the structure until all final connections, sheathing and bracing have been completed in accordance with the plans.

5. SAFETY: Contractor shall be responsible for all safety precautions and the methods, techniques, sequences or procedures required to perform the work.

6. SHOP DRAWING REVIEW: Shop drawings shall be submitted to the Architect and Structural Engineer for review prior to fabrication of these items:

Reinforcing steel (concrete construction)
Structural steel
Glued laminated members
Laminated veneer lumber members
I-joists

Shop drawings shall be drawn by the Fabricator and not altered or annotated copies of the structural drawings.

Shop drawing review: The Engineer does not review dimensions and quantities; therefore, the Contractor must verify these. Contractor shall review and stamp all shop drawings prior to submitting for review by Engineer. Submissions shall include two copies. One copy will be marked and returned.

The purpose of shop drawing submittals by the Contractor is to demonstrate to the Engineer that the Contractor understands the design concept. The Contractor exhibits their understanding by indicating the materials they intend to furnish and install and by detailing the fabrication and installation methods they intend to use. If deviations, discrepancies, or conflicts between shop drawing submittals and the contract documents are discovered either prior to or after shop drawing submittals are processed by the Engineer, the design drawings and specifications shall control and shall be followed.

SOILS

7. All foundations shall bear on excavated rock surfaces or on compacted Subbase, Grading C as noted on the drawings. Presumed allowable soil bearing pressure is 2,000 psf.

CONCRETE

8. MIX DESIGN: Concrete shall be Class A per Section 501. Minimum specified 28 day compressive strength, fc' = 4,000 psi.

9. REINFORCEMENT: Concrete reinforcement shall conform to Section 503 of Volume I. Reinforcing steel shall be new billet steel complying with ASTM A615 with minimum yield strength of 40,000 psi (Grade 40) for #3 bars and 60,000 psi (Grade 60) for all other bars. Grade 60 reinforcing bars indicated on the drawings to be welded shall conform to ASTM A706.

Reinforcing steel shall be detailed (including hooks and bends) in accordance with ACI Detailing Manual SP-66 and ACI 318. Dimensions shown on the drawings are measured to the outside of bars. Lap splices shall conform to the length specified on the drawings. Provide corner bars in the size and number to match the longitudinal bars at all wall and footing intersections

10. CONCRETE COVER: Minimum cover from the outermost surface of the reinforcement to earth or face of the form shall be:

Footings and other unformed surfaces cast against earth	3"
Formed surfaces exposed to earth or weather	1½"
Slabs and walls (interior face)	¾"

11. NON SHRINK GROUT: Non shrink grout shall be furnished by an approved manufacturer and shall be mixed and placed in strict accordance with the manufacturer's recommended procedures. Grout strength shall be a minimum of 3,500 psi.

STEEL

12. STRUCTURAL STEEL: Structural steel design, fabrication, and erection shall be based on Section 504 of Volume I and the AISC Specification for Structural Steel Buildings. Structural steel shall conform to ASTM A992, Fy = 50 ksi for wide flange shapes and to ASTM A36 Fy = 36 ksi for plates and rolled shapes. Steel pipe shall conform to ASTM A53 Type E or S, Grade B, Fy = 35 ksi. Structural tubing (HSS round, square or rectangular) shall conform to ASTM A500, Grade B, Fy = 46 ksi.

Steel shapes and weldments exposed to weather or in contact with pressure treated wood shall be hot-dipped galvanized in accordance with ASTM A123 after fabrication. Structural steel enclosed within the building envelope shall be thoroughly cleaned and shop painted prior to shipping.

13. WELDING: All welding shall conform to AWS D1.1, using E70XX electrodes, and performed by a welder certified in the particular position and process. Only pre-qualified welds shall be used.

WOOD

14. SAWN LUMBER: Lumber shall be visually graded and marked in conformance with WCLB Standard Grading Rules for West Coast Lumber No. 17. Furnish to the following minimum standards, unless otherwise noted on the plans:

Beams and stringers (Timbers 5x5 and larger)
Doug Fir-Larch or Hem-Fir No. 1, Free of Heart Center
Minimum base values, Fb = 1050 psi, E = 1,300,000 psi

Posts and Timbers (Timbers 5x5 and larger)
Doug Fir-Larch or Hem-Fir No. 1, Free of Heart Center
Minimum base values, Fb = 975 psi, E = 1,300,000 psi

Structural Joists and Planks (2-4 thick)
Doug Fir-Larch or Hem-Fir No.1 & BTR
Minimum base values, Fb = 1100 psi, E = 1,500,000

Studs, plates, and miscellaneous light framing (2 - 4 thick)
Hem Fir No. 2
Minimum base values, Fb = 850 psi, E = 1,300,000 psi

Structural Decking (2-inch decking)
Hem Fir, Hemlock, or Doug Fir-Larch Select Dex
V-joint pattern, conform to AITC 112

15. GLUED LAMINATED TIMBERS: Glued laminated timbers shall be fabricated and identified as required in ANSI / AITC A190.1 and ASTM D 3737. Each timber shall bear an AITC identification mark and shall be accompanied by an AITC Certificate of Conformance. All simple span beams shall be combination 24F-V4 DF, Fb = 2,400 psi, Fv = 240 psi. All multiple span or cantilever beams shall be combination 24F-V8 DF, Fb = 2,400 psi, Fv = 240 psi. Appearance grade is Architectural and no camber is required.

16. LAMINATED VENEER LUMBER: Laminated veneer lumber (LVL) shall be manufactured in a plant in accordance with a current code acceptance report. Each piece shall bear a stamp indicating the plant, grade, and quality control agency. All LVL shall be manufactured using Douglas Fir veneer glued with a waterproof adhesive meeting the requirements of ASTM D2559 with all grain parallel with the long axis of the member, Fb = 2,800 psi, E = 2.0x10^6 psi, Fv = 285 psi.

17. I-JOISTS: I-joists shown on these plans are manufactured by the Boise Cascade Corporation. Web stiffeners are required at each bearing location. Refer to Boise Cascade Specifier Guide for stiffener, filler, and backer block dimensions, nailing, and installation requirements. Alternative manufacturers may be substituted subject to review and approval by the Engineer. Alternative joist hangers and other hardware may be substituted for items shown provided they have ICBO approval for equal or greater load capacities.

18. PLYWOOD SHEATHING: Sheathing shall be APA Performance Rated Panels conforming to DOC PS 1. See plans for thickness, span rating designation, and nailing requirements.

19. WOOD PLATES: Wood plates in direct contact with concrete shall be pressure treated with an approved preservative in accordance with AWPA Standards.

20. TIMBER CONNECTORS: Timber connectors such as joist hangers, straps, hold downs, and hurricane connectors specified on the drawings are manufactured by the Simpson Strong Tie Company. Equivalent devices by other manufacturers may be substituted, provided they have ICBO approval for equal or greater load capacities. Provide number and size of fasteners as specified by manufacturer. All bolts in wood members shall conform to ASTM A307. Provide cut washers where heads and nuts of all bolts and lag screws bear directly on wood. Unless noted otherwise, all nails shall be common.

Each hold down shall be bolted to a minimum of two studs. Provide number and size of fasteners as specified by the manufacturer. All hold downs shall be installed in accordance with the manufacturer's requirements.

21. FASTENERS: Bolts, all threaded rods, anchor bolts, and nuts shall be ASTM A307 Gr. A. Cut washers shall be used where bolt or nut bears directly against wood. Lag bolts shall conform to ANSI B18.2.1 and installation shall comply with NDS Section 11.1.3.

Unless otherwise noted, all nails shall be common.

Fasteners exposed to weather, embedded in concrete or in contact with pressure treated wood shall be hot-dipped galvanized in accordance with ASTM A153.

Bolt holes in wood or steel shall be 1/16" larger in diameter than the nominal diameter of the bolt.

ABBREVIATIONS

(A)	ABOVE	FD	FLOOR DRAIN	P/C	PRECAST
AB	ANCHOR BOLT	FDN	FOUNDATION	PERP	PERPENDICULAR
ACI	AMERICAN CONCRETE INSTITUTE	FIN	FINISH, FINISHED	PJP	PARTIAL JOINT PENETRATION
ADDL	ADDITIONAL	FF	FAR FACE	PL	PLATE (STEEL)
AGGR	AGGREGATE	FLG	FLANGE	PL	PLATE (WOOD)
AISC	AMERICAN INSTITUTE OF STEEL CONSTRUCTION	FLR	FLOOR	PLCS	PLACES
		FOS	FACE OF STUDS	PLWD	PLYWOOD
AITC	AMERICAN INSTITUTE OF TIMBER CONSTRUCTION	FS	FAR SIDE	PP	PARTIAL PENETRATION
		FT	FOOT, FEET	P/S	PRESTRESSED
ALT	ALTERNATE	FTG	FOOTING	PSF	POUNDS PERS SQUARE FOOT
ALUM	ALUMINUM	FUT	FUTURE	PSI	POUNDS PER SQUARE INCH
ARCH	ARCHITECT, ARCHITECTURAL	FV	FIELD VERIFY	PSL	PARALLEL STRAND LUMBER
@	AT			PT	PRESSURE TREATED
APPROX	APPROXIMATELY	GA	GAUGE, GAGE	PT	POST TENSION
ASTM	AMERICAN SOCIETY FOR TESTING AND MINERALS	GALV	GALVANIZED		
		GEN	GENERAL	R	RADIUS
AWS	AMERICAN WELDING SOCIETY	GL	GLUE LAMINATED	RD	ROUND
&	AND	GND	GROUND	REF	REFERENCE
		GR	GRADE	REINF	REINFORCING, REINFORCEMENT, REINFORCED
(B)	BELOW	GB	GYPSUM BOARD		
BD	BOARD	GYP	GYPSUM	REQD	REQUIRED
BL	BUILDING LINE			RO	ROUGH OPENING
BLDG	BUILDING	HORIZ	HORIZONTAL		
BLKG	BLOCKING	HP	HIGHPOINT, HP STEEL SHAPE	S	AMERICAN STANDARD STEEL SHAPE, SOUTH
BM	BEAM	HSB	HIGH STRENGTH BOLT		
BOD	BOTTOM OF DECK	HSS	HOLLOW STRUCTURAL SHAPE	SCHED	SCHEDULE
BOT	BOTTOM	HT	HEIGHT	SECT	SECTION
BRG	BEARING	HVY	HEAVY	SH PL	SHEAR PLATE
BSMT	BASEMENT			SHT	SHEET
BTWN	BETWEEN	IBC	INTERNATIONAL BUILDING CODE	SHTG	SHEATHING
		ID	INSIDE DIAMETER	SIM	SIMILAR
C	AMERICAN CHANNELS	IF	INSIDE FACE	SLBB	SHORT LEGS BACK TO BACK
CG	CENTER OF GRAVITY	IN or "	INCH	SP	SPIRAL
CJ	CONSTRUCTION JOINT	INCL	INCLUDE	SPA	SPACE, SPACING, SPACES
CJP	COMPLETE JOINT PENETRATION	INSUL	INSULATION, INSULATED	SPEC	SPECIFICATION
CIP	CAST-IN-PLACE	INT	INTERIOR	SQ	SQUARE
CL	CENTER LINE			SS	STAINLESS STEEL
CLG	CEILING	JT	JOINT	SSLT	SHORT SLOTTED HOLE
CLR	CLEAR	JST	JOIST	ST	STRUCTURAL TEE FROM S SERIES SECTION
CMU	CONCRETE MASONRY UNIT				
CO	CONCRETE OPENING	K	KIP, KIPS	STD	STANDARD
COL	COLUMN	KSI	KIPS PER SQUARE INCH	STIFF	STIFFENER
COMM	COMMON			STIRR	STIRRUP
CONC	CONCRETE	L	ANGLE	STL	STEEL
CONN	CONNECTION	LB or #	POUND	STRUCT	STRUCTURAL
CONSTR	CONSTRUCTION	LLBB	LONG LEG BACK TO BACK	SUPT	SUPPORT
CONT	CONTINUOUS	LLH	LONG LEG HORIZONTAL	SUSP	SUSPENDED
CONTR	CONTRACTOR	LLV	LONG LEG VERTICAL	SYMM	SYMMETRICAL
CTJ	CONTROL JOINT, CONTRACTION JOINT	LONGIT	LONGITUDINAL		
CTR	CENTER	LP	LOW POINT	T	TOP
CTSK	COUNTERSUNK	LSL	LAMINATED STRAND LUMBER	TC	TOP OF CURB
CU	CUBIC	LSLT	LONG SLOTTED HOLES	T&G	TONGUE AND GROOVE
		LT	LIGHT	T&B	TOP AND BOTTOM
DBL	DOUBLE	LT WT	LIGHT WEIGHT	TEMP	TEMPERATURE, TEMPORARY
DEPT	DEPARTMENT	LVL	LAMINATE VENEER LUMBER	THK	THICK
DET	DETAIL			THRU	THROUGH
DIA or Ø	DIAMETER	M	MISCELLANEOUS SHAPE	TOC	TOP OF CONCRETE
DIAB	DRILLED-IN ADHESIVE BOLT	MAS	MASONRY	TOS	TOP OF STEEL
DIAG	DIAGONAL	MATL	MATERIAL	TOW	TOP OF WALL
DIAPH	DIAPHRAGM	MAX	MAXIMUM	TRANS	TRANSVERSE
DIEB	DRILLED-IN EXPANSION BOLT	MECH	MECHANICAL	TYP	TYPICAL
DIM	DIMENSION	MFR	MANUFACTURER		
DN	DOWN	MFRG	MANUFACTURING	UL	UNDERWRITERS LABORATORY
do	DITTO	MIN	MINIMUM	UON	UNLESS OTHERWISE NOTED
DP	DEEP	MISC	MISCELLANEOUS	UT	ULTRASONIC TEST
DWG	DRAWING	MT	STRUCTURAL TEE FROM M SERIES SECTION	VIF	VERTICAL EACH FACE
DWL	DOWEL			VERT	VERTICAL
		MTD	MOUNTED	VIF	VERTICAL INSIDE FACE
E	EAST	MTL	METAL	VOF	VERTICAL OUTSIDE FACE
(E)	EXISTING				
EA	EACH	N	NORTH	W	WEST, W SERIES SECTION
EB	EXPANSION BOLT	NF	NEAR FACE	W/	WITH
EF	EACH FACE	NFS	NON FROST SUSCEPTIBLE	W/O	WITHOUT
EXJ	EXPANSION JOINT	NIC	NOT IN CONTRACT	WD	WOOD
EL	ELEVATION (HEIGHT)	No or #	NUMBER	WH	WELD HOLE
ELEC	ELECTRICAL	NOM	NOMINAL	WHS	WELDED HEADED STUD
ELEV	ELEVATION	NS	NEAR SIDE	WP	WORK POINT
ENCL	ENCLOSURE	NTS	NOT TO SCALE	WT	WEIGHT, STRUCTURAL TEE FROM W SERIES SECTION
ENGR	ENGINEER				
EQ	EQUAL	OA	OVERALL	WWF	WELDED WIRE FABRIC
EQUIP	EQUIPMENT	OC	ON CENTER		
ES	EACH SIDE	OD	OUTSIDE DIAMETER	YD	YARD
EW	EACH WAY	OF	OUTSIDE FACE		
EXIST	EXISTING	OPNG	OPENING		
EXP	EXPANSION	OPP	OPPOSITE		
EXT	EXTERIOR	OSB	ORIENTED STRAND BOARD		
		OVS	OVERSIZED HOLES		

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DESIGNED BY: T. DOGGETT

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Coffman Cove Ferry Terminal
Project 67844

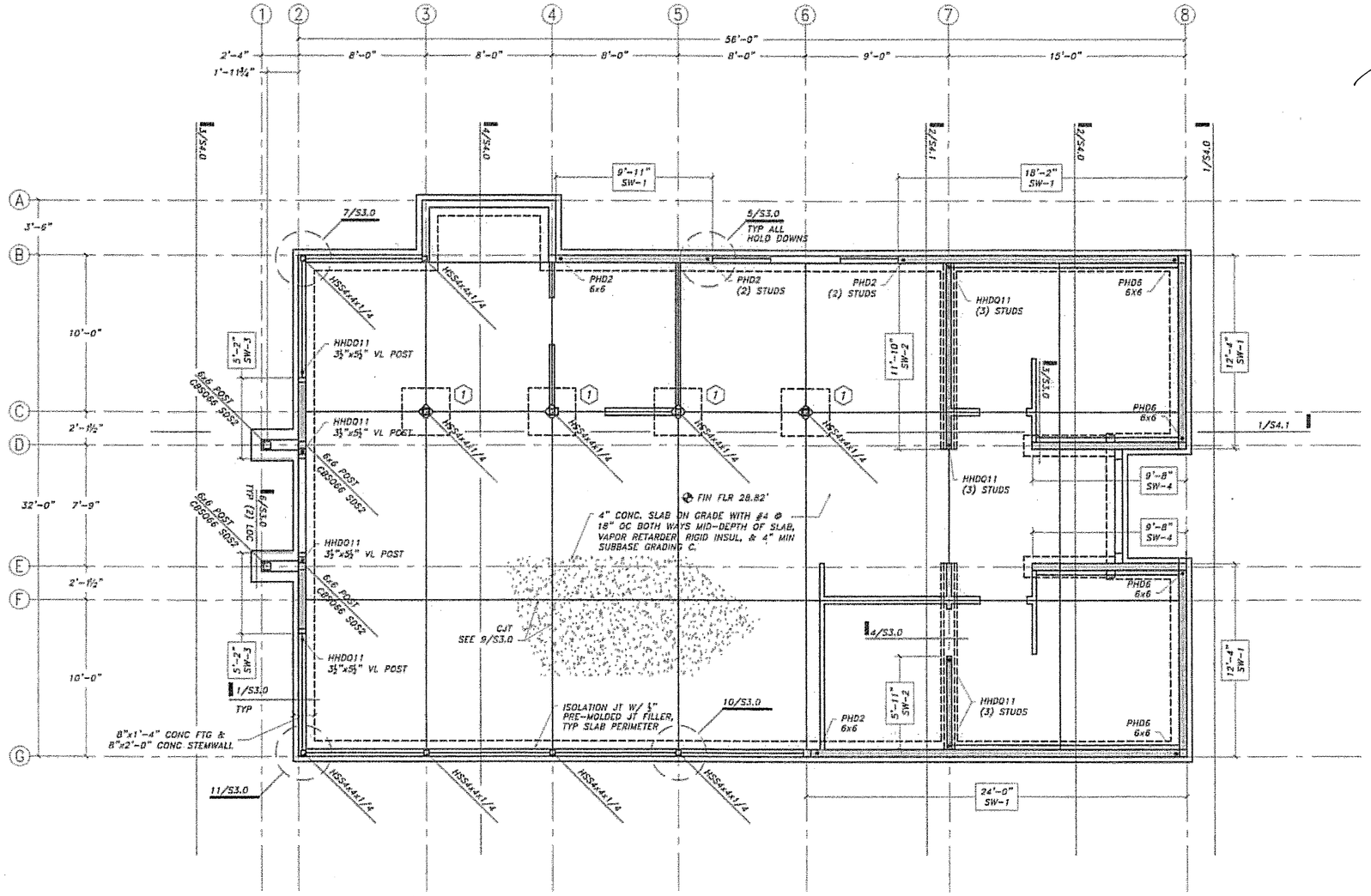
Structural Notes

CHECKED BY: T. WHITELEY
DRAWN BY: T. DOGGETT

PATH:
PLOT:

REVISIONS NO.	DATE	DESCRIPTION	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			67844	2004	S1.0	36

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SHEAR WALL SCHEDULE

LENGTH TYPE

WALL TYPE	PANEL	BLKG	WALL FRAMING	PANEL NAILING		SILL PLATE ATTACHMENT TO CONCRETE
				EDGE	FIELD	
SW-1	15/32" APA RATED PLYWD EXT. FACE ONLY	YES	2x6 @ 16" O.C.	6"	12"	5/8"ø A.B. @ 48" O.C.
SW-2	15/32" APA RATED PLYWD EXT. FACE ONLY	YES	2x4 @ 16" O.C.	3"	12"	5/8"ø A.B. @ 32" O.C.
SW-3	15/32" APA RATED PLYWD BOTH FACES	YES	2x6 @ 16" O.C.	3"	12"	5/8"ø A.B. @ 16" O.C.
SW-4	15/32" APA RATED PLYWD EXT. FACE ONLY	YES	2x6 @ 16" O.C.	2"	12"	⅝"øx8½" Simpson Wedge-All Anchorz @ 48"oc

SHEAR WALL NOTES:
1) BLOCKING (FLATWISE OR EDGEWISE) IS REQUIRED AT ALL PANEL EDGES.
2) NAILS FOR PLYWOOD SHALL BE 8d COMMON (0.131" DIAM x 2½") OR GALV BOX NAILS.
3) INSTALL PANELS EITHER HORIZONTALLY OR VERTICALLY.
4) SILL PLATES BOLTED TO CONCRETE SHALL BE DOUBLE 2X PLATES (STAGGER EDGE NAILING BETWEEN BOTH PLATES) OR SINGLE 3X PLATE.
5) INSTALL A MINIMUM OF TWO ANCHOR BOLTS PER MUDSILL WITH ONE BOLT LOCATED NOT MORE THAN 12 INCHES NOR LESS THAN 6 INCHES FROM EACH END OF MUDSILL.
6) INSTALL MINIMUM (2) STUDS AT SHEARWALL BOUNDARIES, UNLESS NOTED OTHERWISE ON PLANS.
7) WHERE PANELS ARE APPLIED TO BOTH FACES, PANEL JOINTS SHALL BE OFFSET TO FALL ON DIFFERENT STUDS OR FRAMING SHALL BE 3-IN. NOMINAL AND NAILS ON EACH SIDE SHALL BE STAGGERED.
8) WHERE NAILS ARE SPACED 2"oc. FRAMING AT ADJOINING PANEL EDGES SHALL BE 3" NOMINAL OR WIDER AND NAILS SHALL BE STAGGERED.

FOOTING SCHEDULE -- SEE 2/S3.0

FOOTING MARK	DIMENSIONS	REINFORCING	REMARKS
1	3'-0" x 3'-0" x 12" THK	(5) #5 E.W. BOTTOM	
2			
3			

FOUNDATION/MAIN FLOOR PLAN

PROJECT NORTH

SCALE: 1/4" = 1'-0"

FOUNDATION/MAIN FLOOR PLAN NOTES

1. VERIFY ALL DIMENSIONS, FLOOR ELEVATIONS, WALL HEIGHTS, FINISHES AND ETC. WITH ARCHITECTURAL DRAWINGS.
2. INDICATES SHEAR WALL
3. INDICATES COLUMN
4. INDICATES FOOTING MARK. SEE FOOTING SCHEDULE FOR SIZE & REINFORCING
5. INDICATES HOLD DOWN & BOUNDARY STUDS OR POST. FOR HOLD DOWN INSTALLATION DETAILS SEE 5/S3.0.
6. WOOD CONNECTORS, COLUMN BASES, AND HOLD DOWNS ARE MANUFACTURED BY SIMPSON STRONG-TIE. MODEL NUMBERS ARE SHOWN ON THE DRAWINGS.
7. INDICATES SHEARWALL LENGTH & TYPE

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

DESIGNED BY: T. DOGGETT

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STATE OF ALASKA — 49TH — REGISTERED ENGINEER — 3/6/05

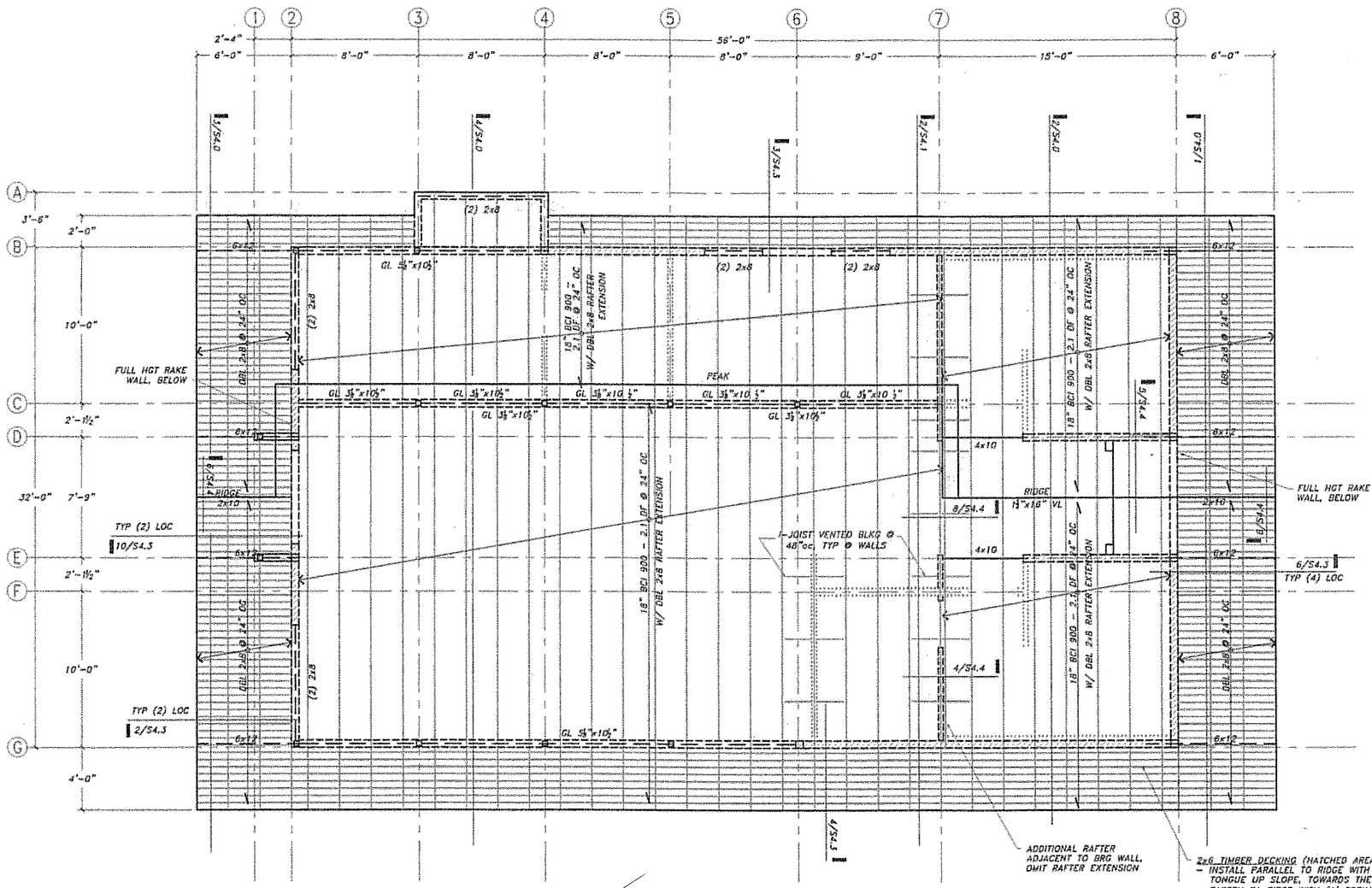
CHECKED BY: T. WHITELEY
DRAWN BY: T. DOGGETT
PATH:
PLOT:

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Project 67844

Foundation/Main Floor
Framing Plan

REVISIONS NO.	DATE	DESCRIPTION	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			67844	2004	S2.0	36

✓ gmg 2/07



ROOF FRAMING PLAN NOTES

1. VERIFY ALL DIMENSIONS, FLOOR ELEVATIONS, WALL HEIGHTS, FINISHES, ETC. WITH ARCHITECTURAL DRAWINGS.
2. INDICATES PARTITION WALL BELOW
   INDICATES SHEAR WALL BELOW
   INDICATES BEARING WALL BELOW
   INDICATES COLUMN BELOW
3. INDICATES BEAM OR HEADER
4. INDICATES ROOF RAFTERS
5. ROOF SHEATHING SHALL BE 3/4" APA RATED SHEATHING, SPAN RATING 48/24, EXTERIOR. NAIL WITH 10d COMMONS (0.192"ø x 3") AT:
   6" OC AT ALL SUPPORTED EDGES
   6" OC IN FIELD
   APPLY PANELS WITH LONG AXIS PERPENDICULAR TO SUPPORTS & STAGGER PANEL END JOINTS.
6. SEE 2/S4.4 FOR TYPICAL TOP PLATE SPLICE DETAIL.

PROJECT NORTH

ROOF FRAMING PLAN
SCALE: 1/4" = 1'-0"

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

DESIGNED BY: T. DOGGETT
CHECKED BY: T. WHITELEY
DRAWN BY: T. DOGGETT
PATH:
PLOT:

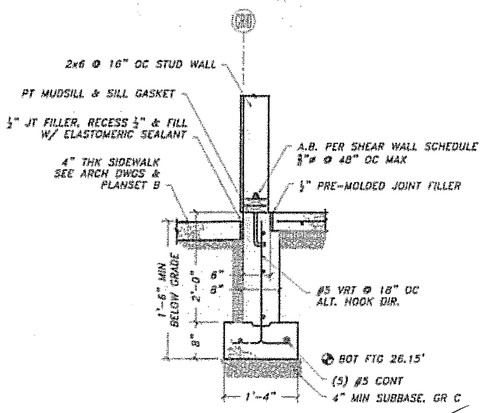
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
SE REGION DESIGN & ENGINEERING SERVICES DIVISION

Coffman Cove Ferry Terminal
Project 67844

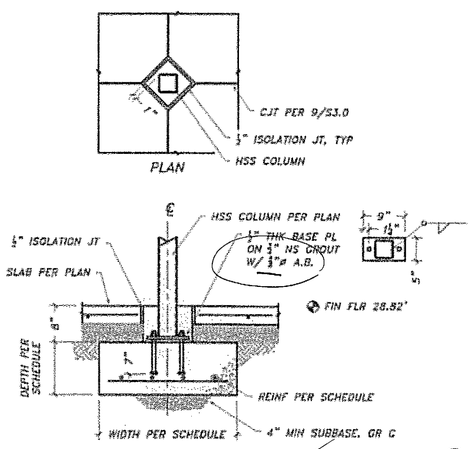
Roof Framing Plan

REVISIONS NO.	DATE	DESCRIPTION	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
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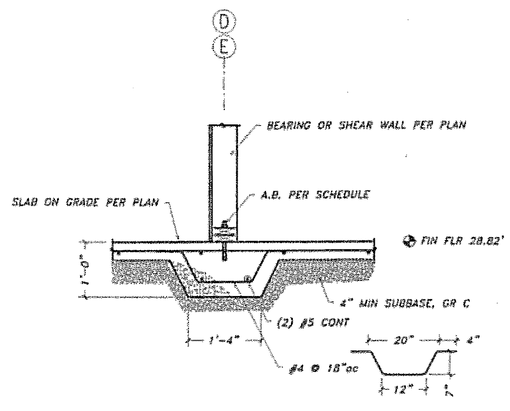
✓ GM 2/07



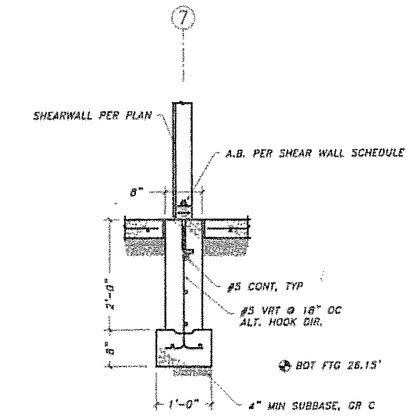
PERIMETER FOOTING 1



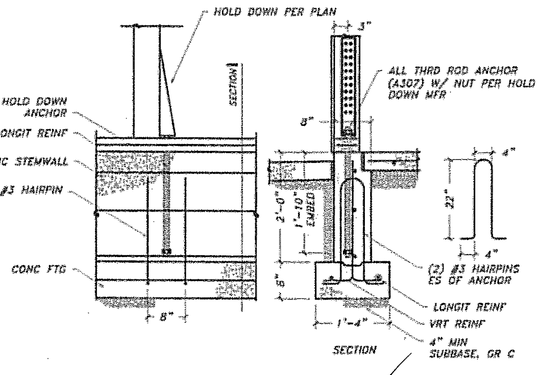
SPREAD FOOTING 2



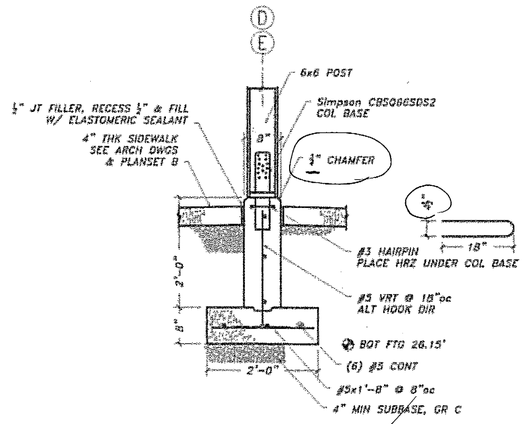
THICKENED SLAB 3



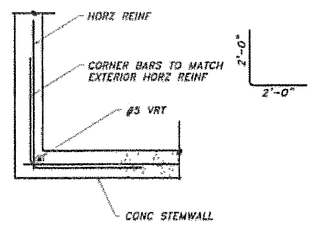
SHEARWALL FOOTING 4



HOLD DOWN INSTALLATION 5



WIDE FOOTING 6



TYPICAL CORNER BAR PLACEMENT 7

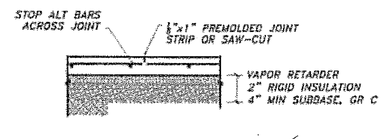
TENSION LAP SPLICE LENGTHS

MIN. LAP SPLICE LENGTH (in.) Ld			HOOK (in.)
REBAR	OTHER BARS	TOP BARS	a
#4	27	35	8
#5	33	43	10
#6	40	52	12

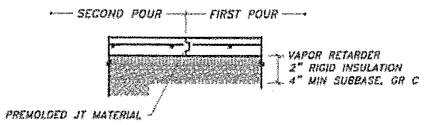


SPLICE NOTES:
1) LENGTHS CALCULATED ACCORDING TO ACI 318-95, 12.2.2 & 12.15
2) TOP BARS ARE HORIZONTAL BARS WITH MORE THAN 12 INCHES OF PLASTIC CONCRETE CAST BELOW BARS.
3) STAGGER SPLICES SO THAT NO MORE THAN 50% OF BARS IN A SECTION ARE SPLICED WITHIN THE SPLICE LENGTH.

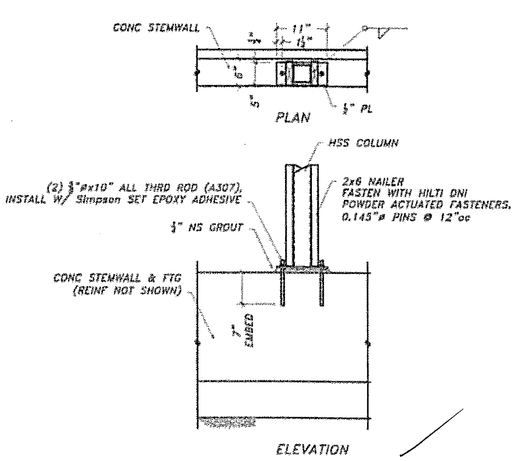
LAP SPLICE SCHEDULE 8



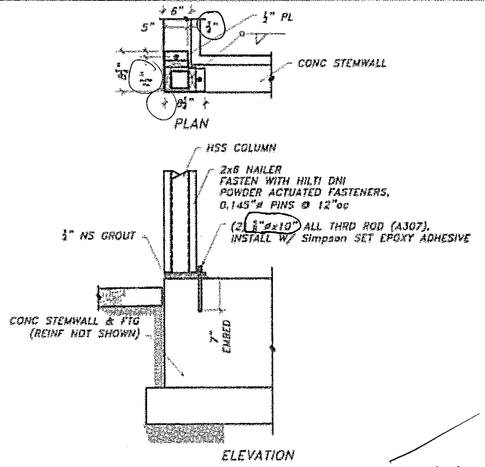
CONTROL JOINT



CONSTRUCTION JOINT 9



STEEL COLUMN BASE 10



STEEL COLUMN CORNER BASE 11

GENERAL NOTES:

1. BOLT HOLE DIAMETER IS $\frac{1}{8}$" LARGER THAN NOMINAL BOLT DIAMETER, UON.
2. JOIN STEEL WITH FILLET WELDS, $\frac{1}{6}$" MIN LEG SIZE, UON.

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

DESIGNED BY: T. DOGGETT

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

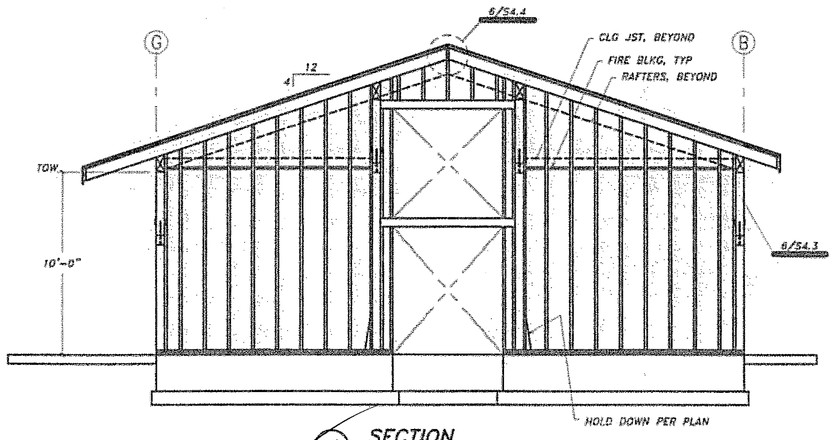
Coffman Cove Ferry Terminal
Project 67844

Concrete Details

CHECKED BY: T. WHITELEY
DRAWN BY: T. DOGGETT
PATH:
PLOT:

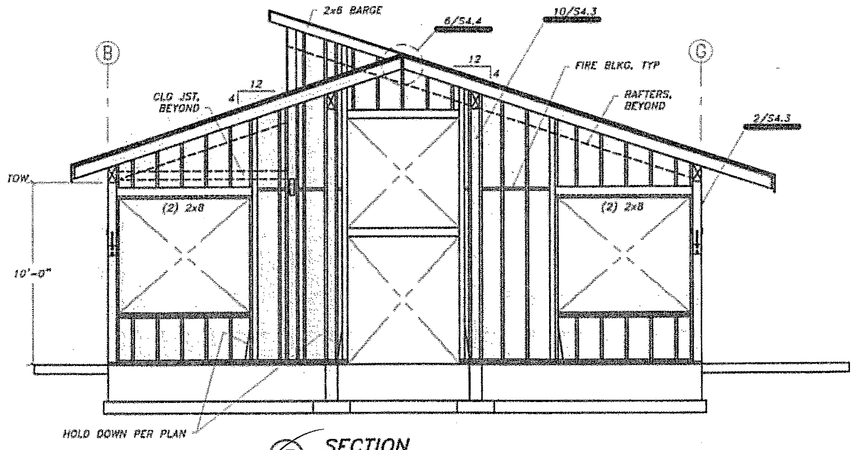
REVISIONS NO.	DATE	DESCRIPTION	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			67844	2004	S3.0	36

✓ 2/07

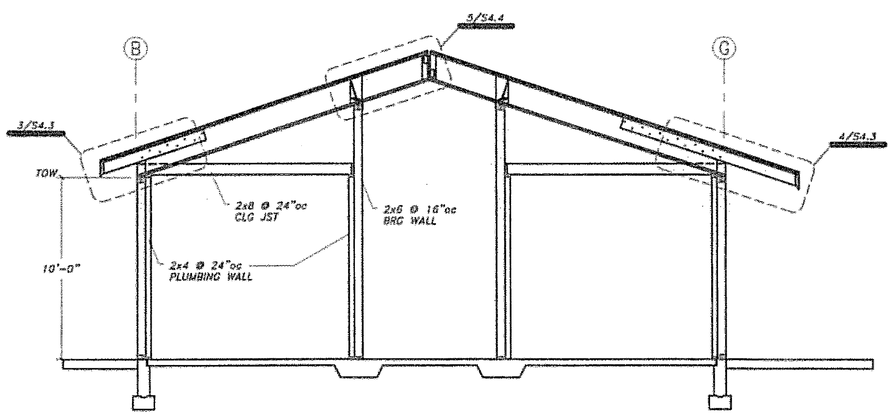


1 SECTION
SCALE: 1/4" = 1'-0"

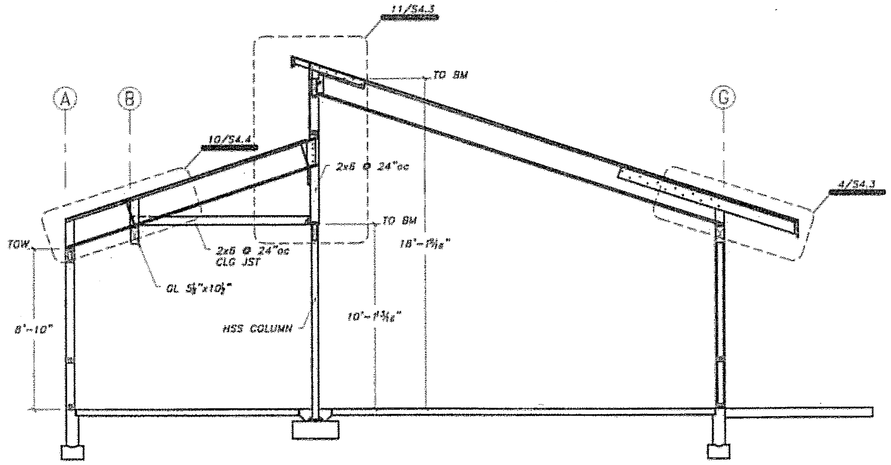
NOTE: BLOCKING IS REQUIRED AT ALL PANEL EDGES. BLOCKING NOT SHOWN FOR CLARITY



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



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



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

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

DESIGNED BY: T. DOGGETT

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

STATE OF ALASKA
49TH
T. DOGGETT
3/6/05

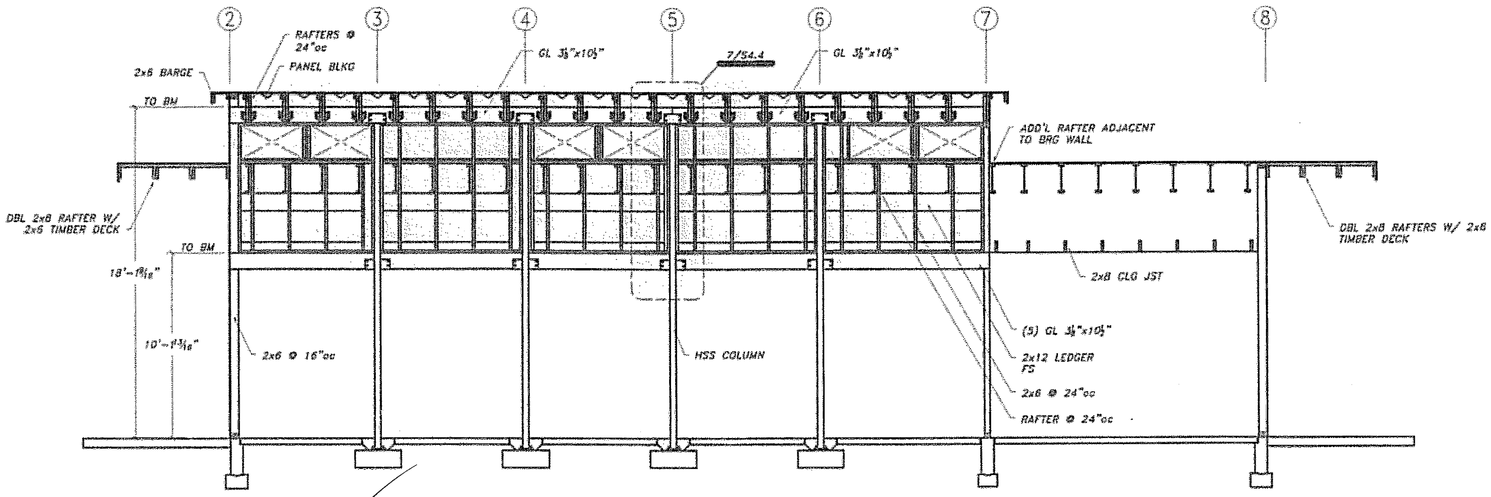
Coffman Cove Ferry Terminal
Project 67844

Elevations & Sections

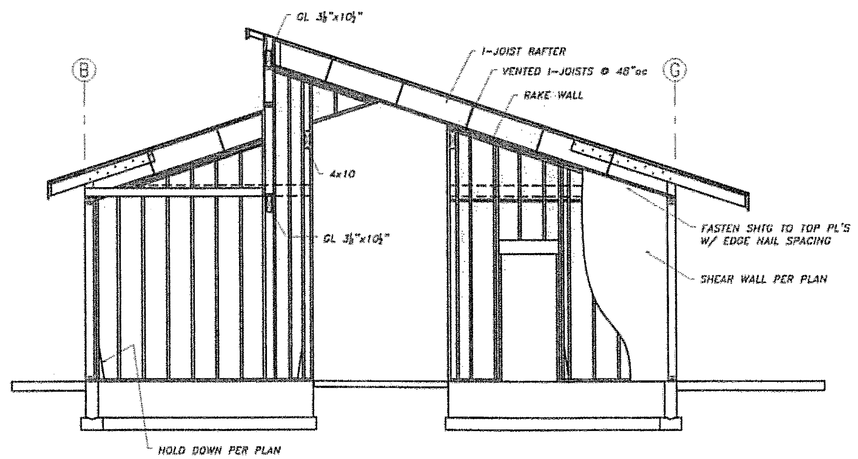
CHECKED BY: T. WHITELEY
DRAWN BY: T. DOGGETT
PATH:
PLOT:

REVISIONS NO.	DATE	DESCRIPTION	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			67844	2004	S4.0	36

✓ gmb 2/07



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



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

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CHECKED BY: T. WHITELEY
DRAWN BY: T. DOGGETT
PATH:
PLOT:

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

STATE OF ALASKA * 49TH * 1867 1959

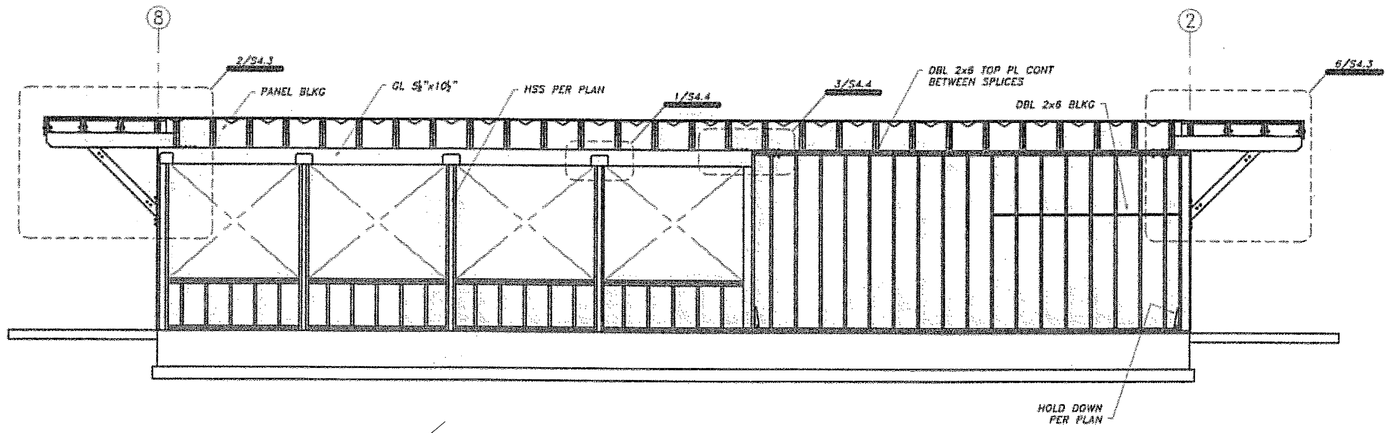
3/8/05

Coffman Cove Ferry Terminal
Project 67844

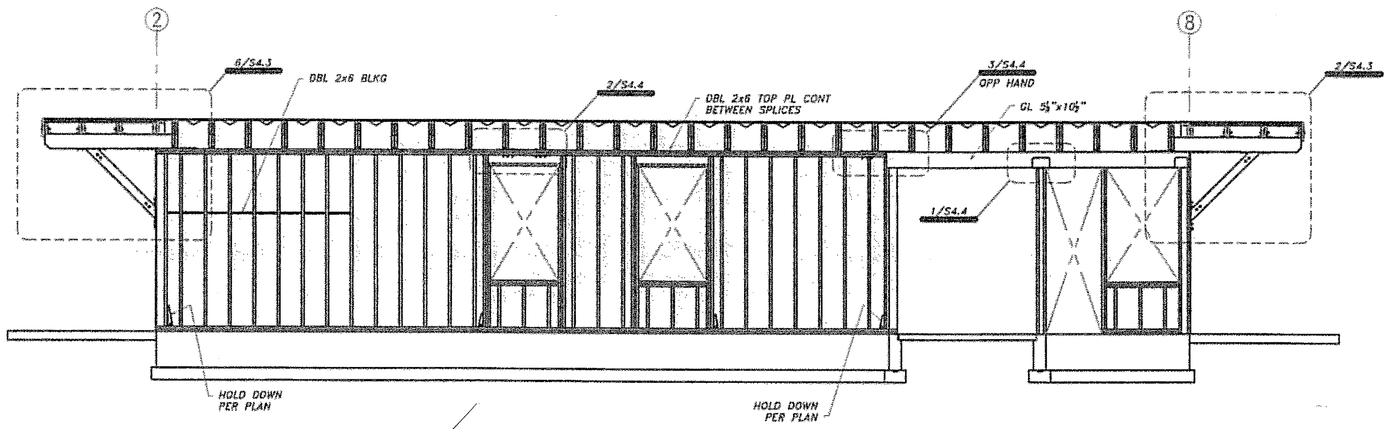
Elevations & Sections

REVISIONS NO.	DATE	DESCRIPTION	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			67844	2004	S4.1	36

✓ gam 2/07



1 WEST ELEVATION
SCALE: 1/4" = 1'-0"



2 EAST ELEVATION
SCALE: 1/4" = 1'-0"

NOTE: BLOCKING IS REQUIRED AT ALL PANEL EDGES. BLOCKING NOT SHOWN FOR CLARITY

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

DESIGNED BY: T. DOGGETT

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

STATE OF ALASKA
49TH
3/8/05

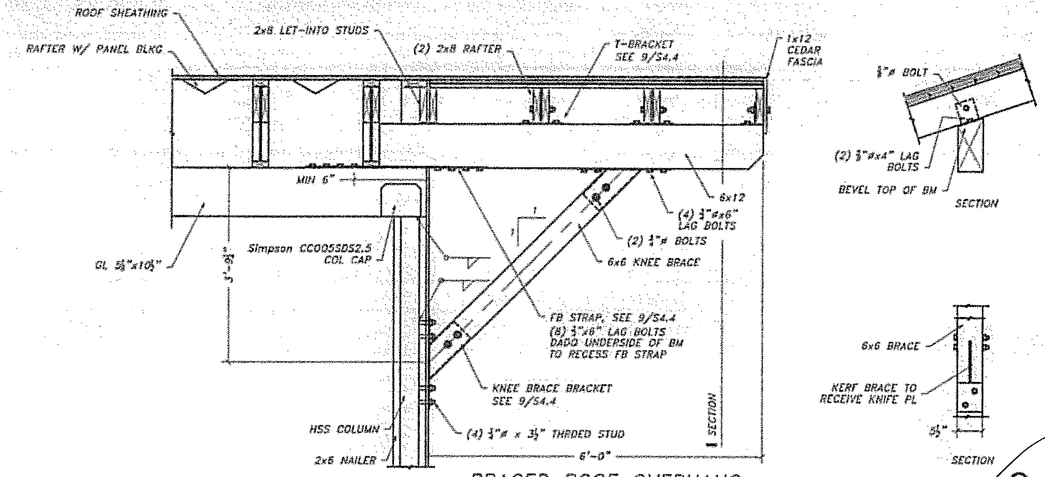
CHECKED BY: T. WHITELEY
DRAWN BY: T. DOGGETT
PATH:
PLOT:

Coffman Cove Ferry Terminal
Project 67844

Elevations

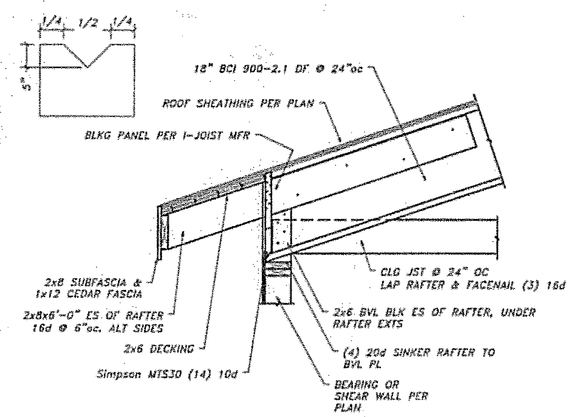
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✓ GMB 2/07



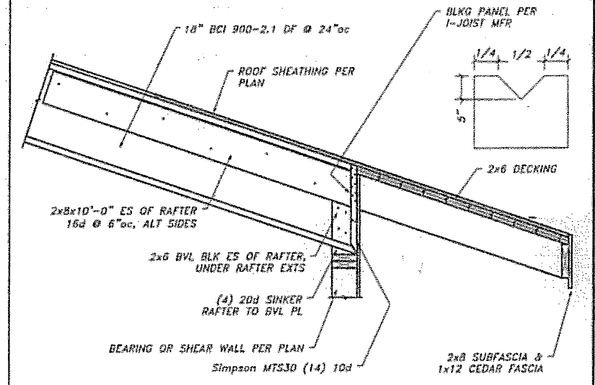
BRACED ROOF OVERHANG

2



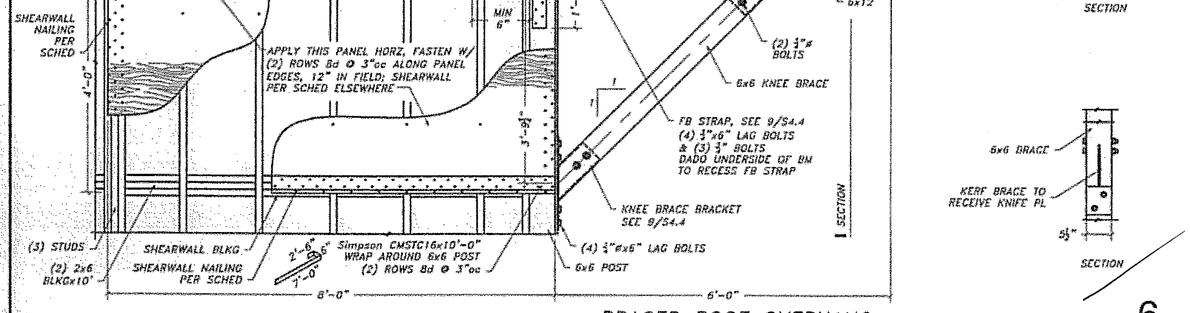
2-FT EAVE

3



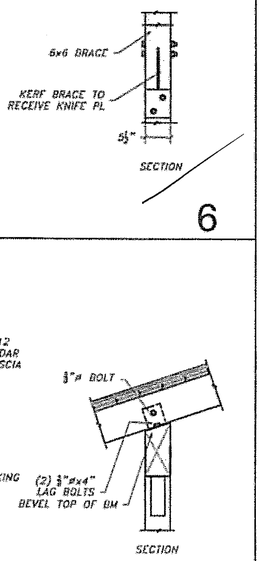
4-FT EAVE

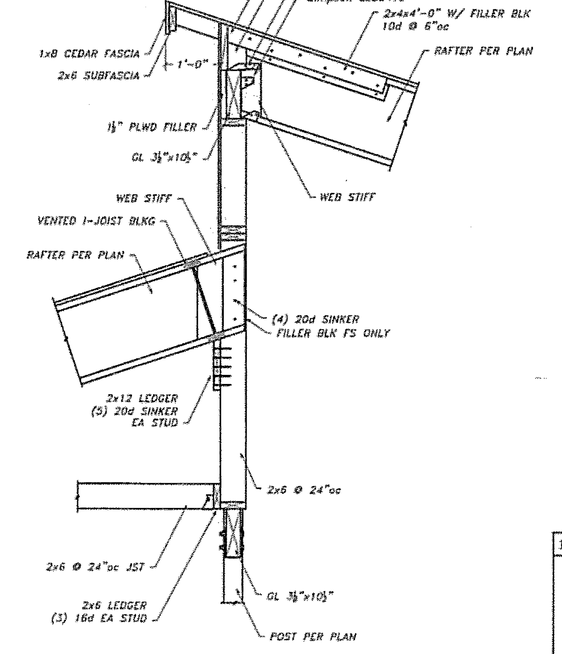
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BRACED ROOF OVERHANG

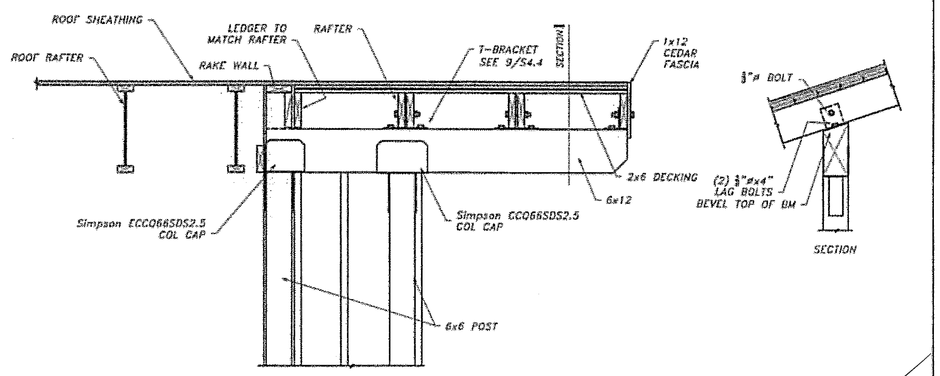
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CLERESTORY SECTION

11



CANTILEVER ROOF OVERHANG

10

GENERAL NOTES:

1. BOLT HOLE DIAMETER IS $\frac{1}{16}$" LARGER THAN NOMINAL BOLT DIAMETER, UON.
2. JOIN STEEL WITH FILLET WELDS, $\frac{3}{16}$" MIN LEG SIZE, UON.
3. ALL PLATE STEEL IS ¼" THICK, UON.

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

DESIGNED BY: T. DOGGETT

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

STATE OF ALASKA 49TH TIMOTHY A. DOGGETT REGISTERED PROFESSIONAL ENGINEER
3/8/05

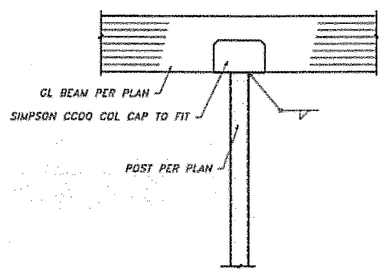
Coffman Cove Ferry Terminal
Project 67844

Wood Framing Details

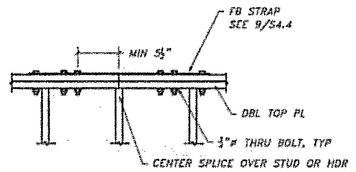
CHECKED BY: T. WHITELEY
DRAWN BY: T. DOGGETT
PATH:
PLOT:

REVISIONS NO.	DATE	DESCRIPTION	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			67844	2004	S4.3	36

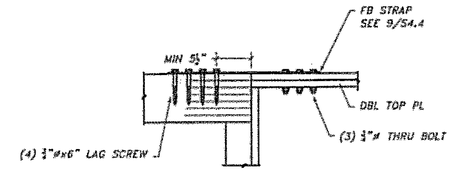
✓ 2/07



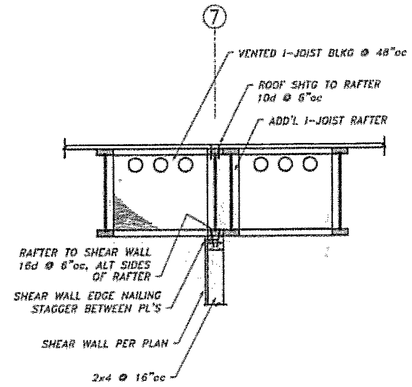
COLUMN CAP 1



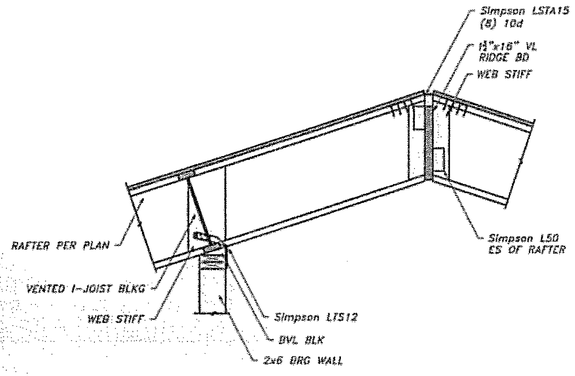
TOP PLATE SPLICE 2



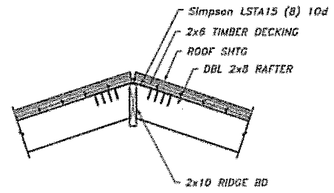
TOP PLATE/GL BEAM SPLICE 3



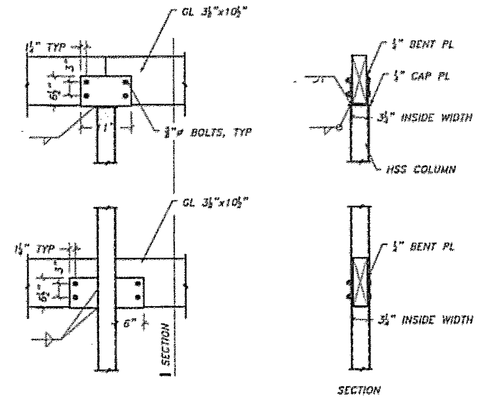
INTERIOR SHEAR WALL 4



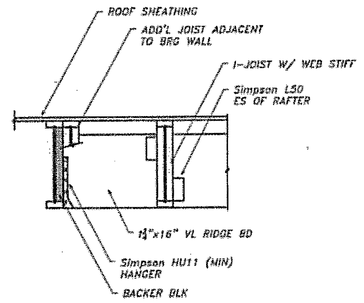
GABLE PEAK 5



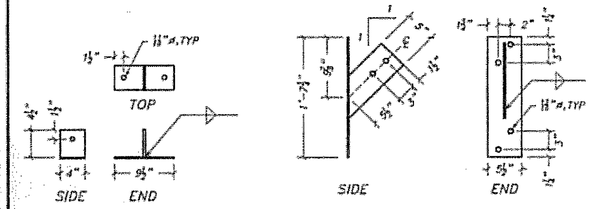
GABLE PEAK 6



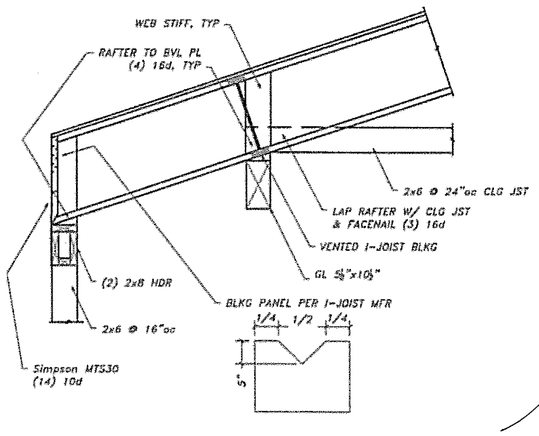
COLUMN/BEAM HANGERS 7



GABLE ROOF RIDGE BOARD 8



MISC METALS 9



RAFTER AT TICKET WINDOW 10

11

GENERAL NOTES:

1. BOLT HOLE DIAMETER IS $\frac{1}{16}$" LARGER THAN NOMINAL BOLT DIAMETER, UON.
2. JOIN STEEL WITH FILLET WELDS, $\frac{3}{16}$" MIN LEG SIZE, UON.
3. ALL STEEL PLATE IS ½" THICK, UON.

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

DESIGNED BY: T. DOGGETT
CHECKED BY: T. WHITELEY
DRAWN BY: T. DOGGETT
PATH:
PLOT:

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

Coffman Cove Ferry Terminal
Project 67844

Wood Framing Details

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			67844	2004	S4.4	36

✓ JM 2/07

AS-BUILT PLANS
for
Ferry Terminal Uplands (Replaced MOST OF PLANSET B)
67844 / STP-0603(66)

PLAN SET "G"

CO NO. 1

Riprap, FENCE, GATE, & PURSER BOOTH DETAILS

AS-BUILTS

CONTRACTOR - SE ROAD BUILDERS
PE - GREG BROWNING
Begin - 06/05
END - 08/06

PLANSET "G"

V 2/07

Toe Blanket permissable in this area

Toe Trench

Sta. 26+09.15, 128' Lt. @ Elev. 26

Sta. 25+97, 0.0' Lt. @ Elev. 28.5

Rip rap Bench @ Elev. 22.5

36" Wide Rip rap bench

12.5'

Vehicle Bridge Approach Abutment

Tie to existing bank

~ Sta. 25+93.96, ~ 32.3' Rt. @ Elev. 27.9

Sta. 25+64.25, 132.2' Lt. @ Elev. 26

25+00

-1.78%

Sta. 25+00, 89' Lt. @ Elev. 28.5

25+00

N05°24'58"W 511.92'

Elev. +30.68

top rip rap = 28.5

Toe Trench

VPI @ 24+00 Elev. +32.00

24+00

Ped. Bridge Approach Abutment

Sta. 23+08, 15' Lt. @ Elev. 28.5

Sta. 23+08, 89' Lt. @ Elev. 28.5

Tie to existing bank

top rip rap = 28.5

23+00

End Toe trench @ El. +20

RipRap Layout

8' Fence - attach to Rail Posts for 12 LF (min) onto Approach

24'

68'

Gate

37'

Security Fence

10'

26+00

16' Manual Slide Gate

22' Double Swing Gate

4'x8' Purser/Mate Hut

~ 16'

15.25'

10'

Gate

16' Power Slide Gate

Security Fence Angle Point Sta. 25+96

Security Fence Angle Point Sta. 25+50

Security Fence

67'

88'

70.00

Security Fence Angle Point Sta. 24+92, 39' Rt.

25+00

N05°24'58"W 511.92'

Security Fence

Security Fence Angle Point Sta. 24+33, 39' Rt.

Ditch to drain

Varies

Mtce Bldg

109.5'

16' Power Slide Gate

24+00

Security Fence

Gate

98'

Security Fence

38.5'

31.5'

top rip rap = 28.5

23+00

60.68' Rt.

PRE-STAGING LANE

2.0'

5.00

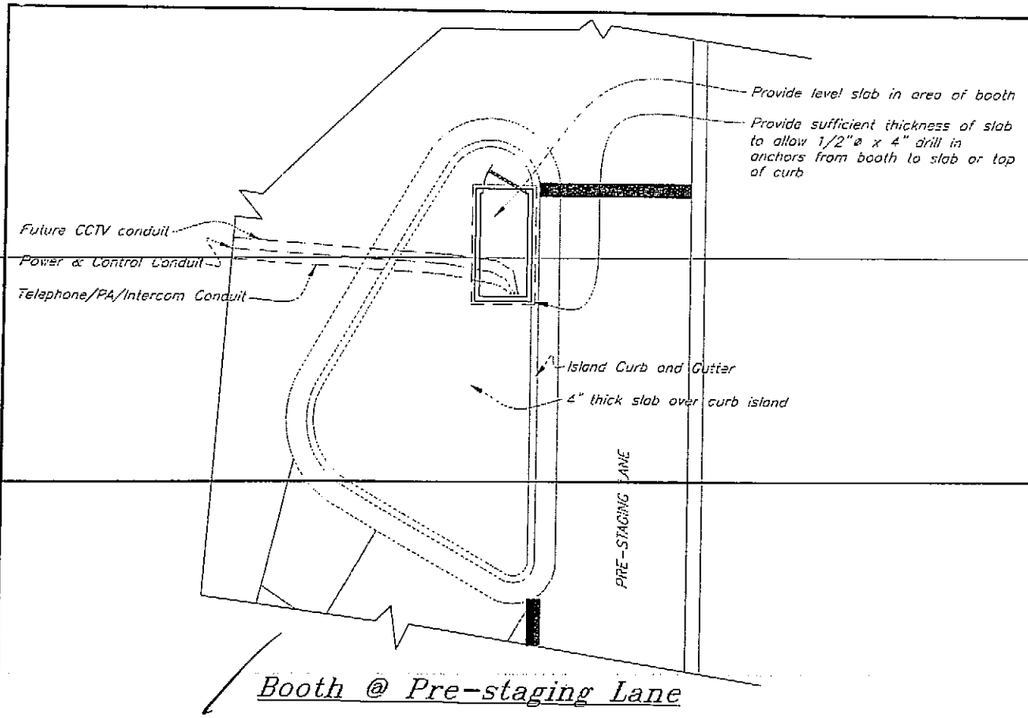
24.0'

31.5'

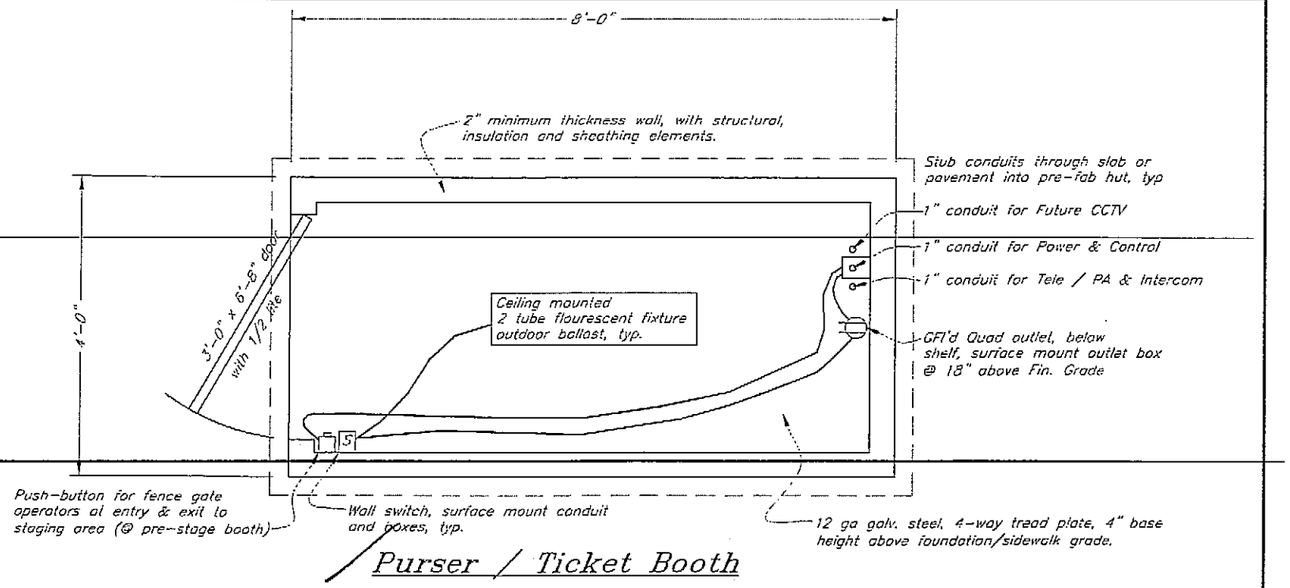
Ditch

Fence Layout

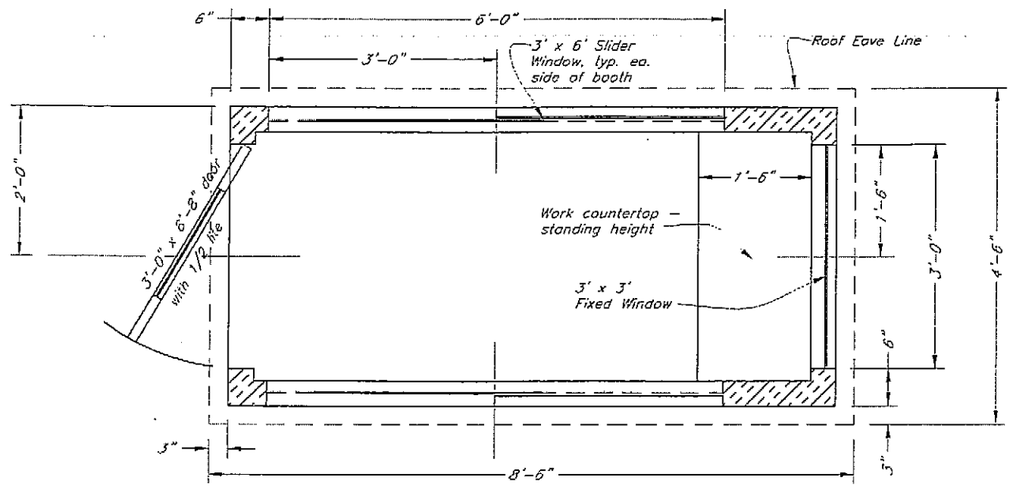
2/37



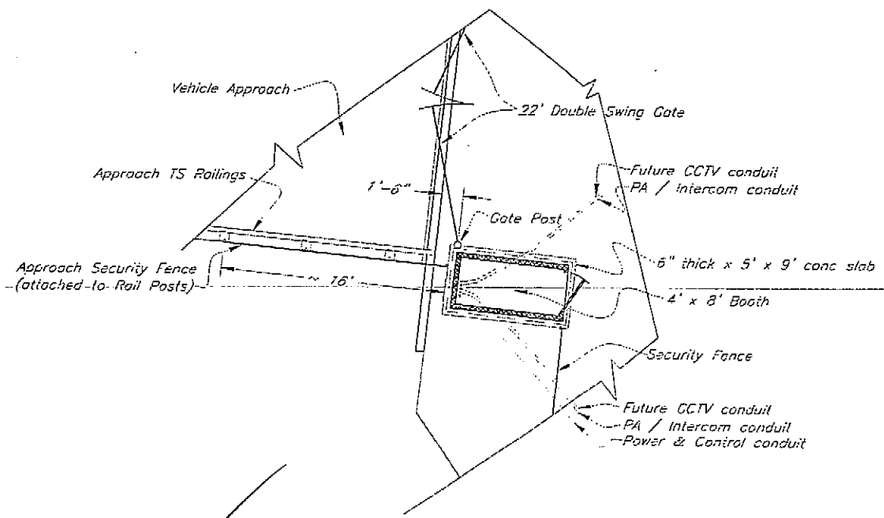
Booth @ Pre-staging Lane



Purser / Ticket Booth



Purser / Ticket Booth



Booth @ Vehicle Approach

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

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CHECKED BY: NAME
DRAWN BY: NAME

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
S.E. REGION DESIGN & ENGINEERING SERVICES DIVISION

Coffman Cove Ferry Terminal
Project 67844

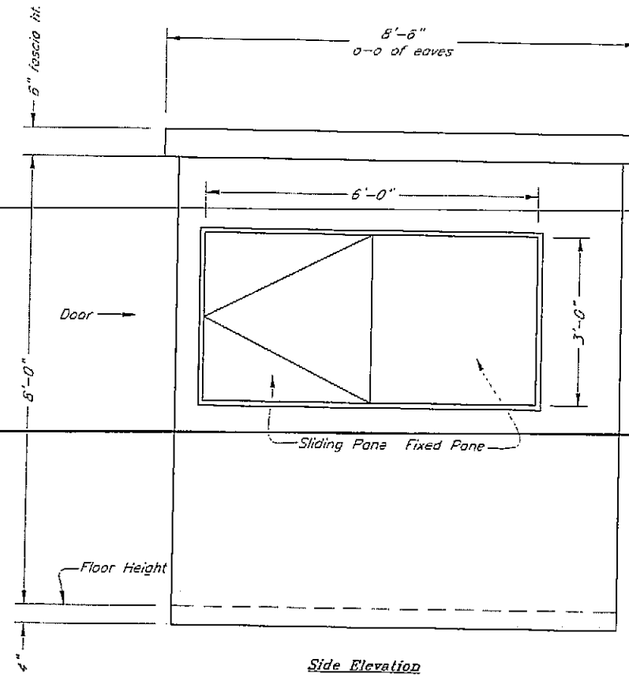
Ticket / Purser Booth

PATH: J:\Coffman Cove Purser Booth.dwg
PLOT: PSPACE 1=1

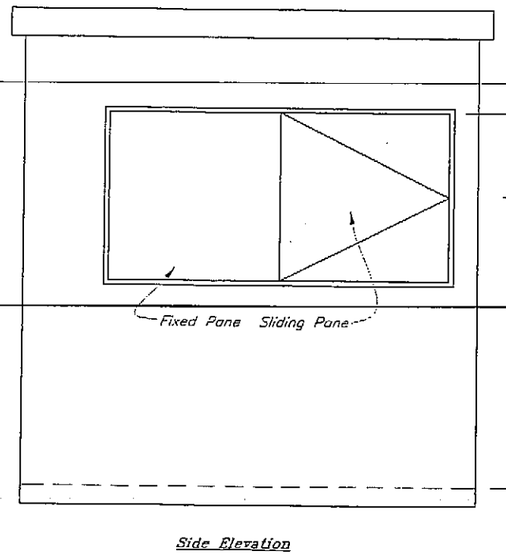
NO.	DATE	REVISION DESCRIPTION
✓	9/03	2/07

PROJECT DESIGNATION	YEAR	SHEET NO	TOTAL SHEETS
67844	2005	xx	99

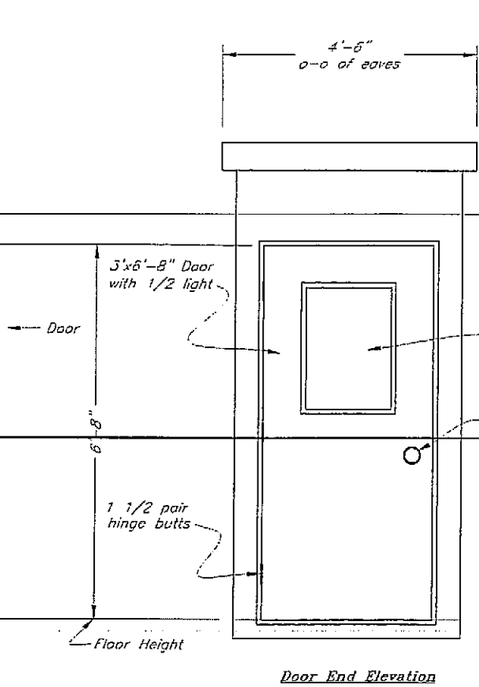
3/37



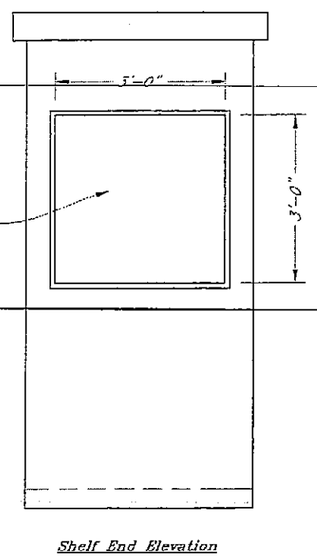
Side Elevation



Side Elevation



Door End Elevation



Shelf End Elevation

ELEVATION VIEWS

Booths to be product of standard manufacture of a firm with at least 10 years experience in the manufacture, shipping and installation of booths for architectural, industrial, security and parking settings and clients.

Booth to be pre-engineered, pre-fabricated, complete and ready for installation, including anchor plates or assemblies, to cast-in-place slabs and on-site conduit stub ups. Booth to have layout, floor plan and elevation as per contract drawings. Interior and exterior to be complete including paint (interior to be off-white, exterior to be medium green).

Interior control, lighting, electrical conductors, conduit, fixtures shall be installed on-site.

Submit shop drawings and manufacturer proposed specifications for review and approval.

Acceptable manufacturer, manufacturer standard specifications and materials package is:
Par-Kut International
40961 Production Drive
Harrison Township, MI 48045
Phone: 800-394-6599

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

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DRAWN BY: NAME
CHECKED BY: NAME

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
& PUBLIC FACILITIES
S.E. REGION DESIGN & ENGINEERING SERVICES DIVISION

Coffman Cove Ferry Terminal
Project 67844

Ticket / Purser
Booth

PATH: c:\Coffman Cove Purser Booth.dwg
PLOT SCALE: 1=1
PLOT STYLE TABLE: NAME.CTBL

NO.	DATE	REVISIONS DESCRIPTION
1	1/03	2/07

PROJECT DESIGNATION	YEAR	SHEET NO	TOTAL SHEETS
67844	2005	xx	99

NEW LIGHTING,
POWER POLE, &
ILLUMINAIRE
LOCATIONS
WITH
GATE, PA/INTERCOM, &
CCTV CONDUIT LAYOUT

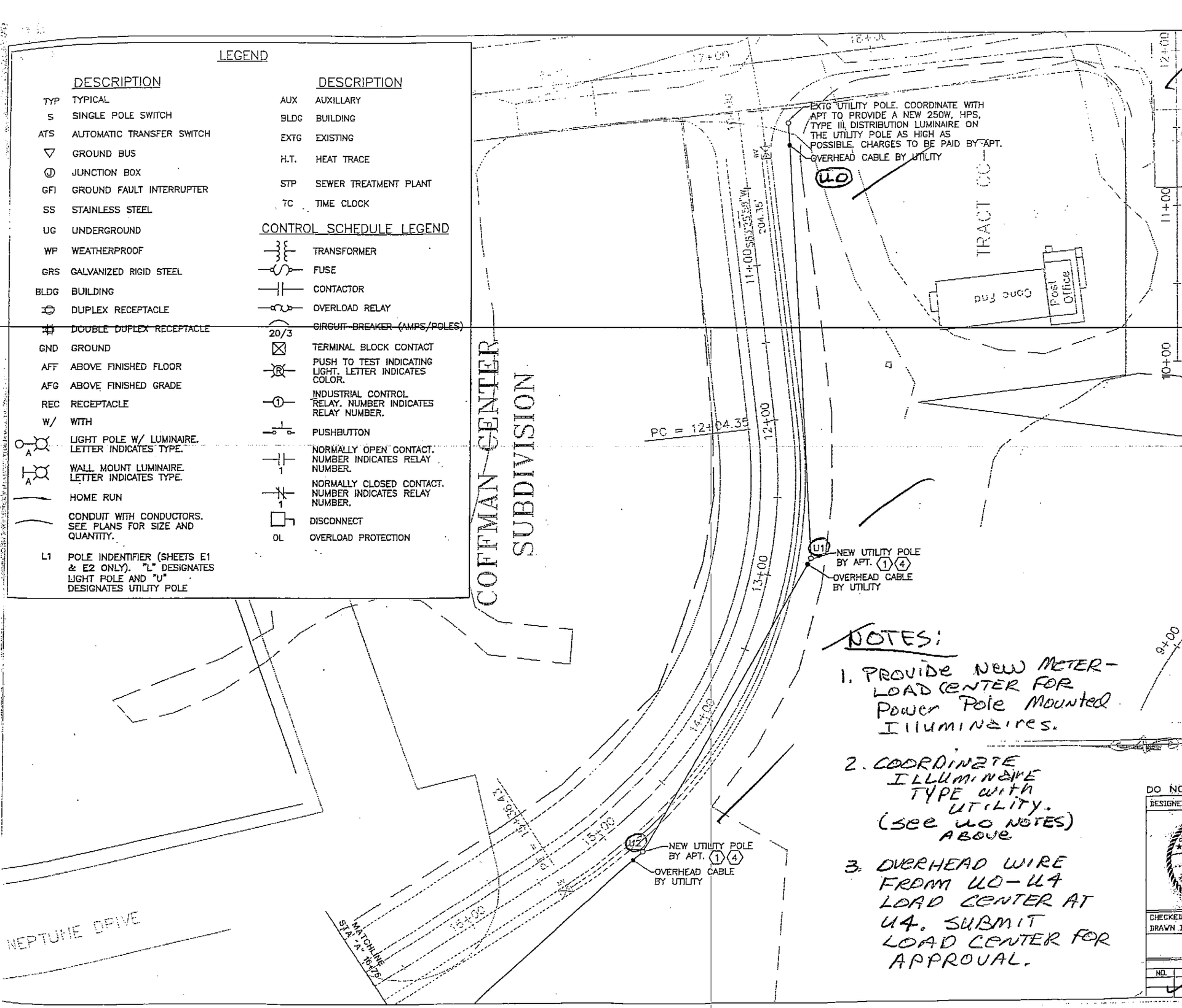
LEGEND

	DESCRIPTION
TYP	TYPICAL
S	SINGLE POLE SWITCH
ATS	AUTOMATIC TRANSFER SWITCH
▽	GROUND BUS
(J)	JUNCTION BOX
GFI	GROUND FAULT INTERRUPTER
SS	STAINLESS STEEL
UG	UNDERGROUND
WP	WEATHERPROOF
GRS	GALVANIZED RIGID STEEL
BLDG	BUILDING
	DUPLEX RECEPTACLE
	~~DOUBLE DUPLEX RECEPTACLE~~
GND	GROUND
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
REC	RECEPTACLE
W/	WITH
A	LIGHT POLE W/ LUMINAIRE. LETTER INDICATES TYPE.
A	WALL MOUNT LUMINAIRE. LETTER INDICATES TYPE.
	HOME RUN
	CONDUIT WITH CONDUCTORS. SEE PLANS FOR SIZE AND QUANTITY.
L1	POLE INDENTIFIER (SHEETS E1 & E2 ONLY). "L" DESIGNATES LIGHT POLE AND "U" DESIGNATES UTILITY POLE

	DESCRIPTION
AUX	AUXILLARY
BLDG	BUILDING
EXTG	EXISTING
H.T.	HEAT TRACE
STP	SEWER TREATMENT PLANT
TC	TIME CLOCK

CONTROL SCHEDULE LEGEND

	TRANSFORMER
	FUSE
	CONTACTOR
	OVERLOAD RELAY
20/3	CIRCUIT BREAKER (AMPS/POLES)
	TERMINAL BLOCK CONTACT
R	PUSH TO TEST INDICATING LIGHT. LETTER INDICATES COLOR.
1	INDUSTRIAL CONTROL RELAY. NUMBER INDICATES RELAY NUMBER.
	PUSHBUTTON
1	NORMALLY OPEN CONTACT. NUMBER INDICATES RELAY NUMBER.
1	NORMALLY CLOSED CONTACT. NUMBER INDICATES RELAY NUMBER.
	DISCONNECT
OL	OVERLOAD PROTECTION



NOTES:

1. PROVIDE NEW METER-LOAD CENTER FOR POWER POLE MOUNTED ILLUMINAIRES.
2. COORDINATE ILLUMINAIRE TYPE WITH UTILITY. (SEE U0 NOTES) ABOVE
3. OVERHEAD WIRE FROM U0-U4 LOAD CENTER AT U4. SUBMIT LOAD CENTER FOR APPROVAL.

NOTES (APPLICABLE TO ALL SHEETS):

1. ALL WORK IS NEW UNLESS OTHERWISE NOTED.
2. ALL FIELD MODIFICATIONS TO MARINE STRUCTURES SHALL INCLUDE REPAIRING THE COATINGS ON THE STRUCTURES PER THE SPECIFICATIONS.
3. LABEL ALL CONDUCTORS IN ALL HAND HOLES AND J-BOXES WITH THE SYSTEM THAT THE CONDUCTORS FEED.
4. LABEL ALL CONDUITS IN ALL J-BOXES AND HAND HOLES STATING WHERE CONDUIT GOES.
5. PROVIDE CONDULETS IN ALL CONDUIT RUNS AS NECESSARY IN ADDITION TO ANY JUNCTION BOXES THAT ARE SHOWN. ROUTE CONDUIT PARALLEL AND PERPENDICULAR TO STRUCTURES. CONDUIT SIZE WITH CONDUCTOR FILL ARE SHOWN FOR CONVENIENCE. PROVIDE CONDUIT AND CONDUCTORS PER THE SINGLE LINE DIAGRAM, CONTROL SCHEMATICS, CONTACTOR SCHEMATICS, AND AS REQUIRED TO PROVIDE THE EQUIPMENT AND CONTROLS SHOWN AND DESCRIBED. DO NOT SURFACE MOUNT CONDUIT TO ANY DECKING OR SURFACE THAT IS TO BE WALKED ON. MOUNT CONDUIT BELOW PLATFORMS AND STUB UP INTO THE BOTTOM OF ENCLOSURES. WHERE THERE IS NO OTHER PLACE TO MOUNT THE CONDUIT BUT THE DECKING, COORDINATE CONDUIT ROUTING WITH ENGINEER AND DOCUMENT IN WRITING WITH ENGINEER'S PERMISSION PRIOR TO INSTALLING. REPAIR ALL PAINT AND GALV COATINGS PER APPLICABLE SECTIONS OF SPECIFICATIONS.
6. ALL EXPOSED CONDUIT, CONDUIT ON MARINE OR FLOATING STRUCTURES, AND UNDERGROUND CONDUIT THAT IS WITHIN 10' OF BUILDINGS OR STRUCTURES SHALL BE GALVANIZED RIGID STEEL UNLESS NOTED OTHERWISE, ALL UNDERGROUND CONDUIT THAT IS NOT WITHIN 10' OF BUILDINGS OR STRUCTURES SHALL BE PVC.
7. ALL EXTERIOR ENCLOSURES SHALL BE NEMA 4X TYPE 316L STAINLESS STEEL. ALL INTERIOR ENCLOSURES SHALL BE NEMA 1. ALL ENCLOSURES EXCEPT PANELBOARDS SHALL HAVE HINGED DOORS AND SHALL BE LOCKABLE W/PADLOCK OR KEYED HANDLE.
8. PROVIDE NONMETALLIC MATERIAL (UHMW, 3M HEAVY ELECTRICAL TAPE (1000V INSULATION), AND OTHER APPROVED MATERIALS) TO SEPARATE ALL DISSIMILAR METALS WHEN MOUNTING ELECTRICAL EQUIPMENT. PROVIDE BONDING JUMPERS IF METALLIC MATERIALS BECOME ISOLATED FROM GROUNDING SYSTEM.
9. REFERENCE SECTION 204 OF THE SPECIFICATIONS FOR EXCAVATION AND BACKFILL REQUIREMENTS.
10. REFERENCE SECTION 501 OF THE SPECIFICATIONS FOR CONCRETE REQUIREMENTS.
11. PROVIDE PULL-ROPES IN ALL EMPTY CONDUITS.

GRAPHIC SCALE
20 0 10 20 40 80'
(IN FEET)

DO NOT SCALE FROM THESE DRAWINGS. USE DIMENSIONS SHOWN

DESIGNED BY: MGH
DRAWN BY: NKG
CHECKED BY: MGH

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

COFFMAN FERRY TERMINAL
PROJECT NO. 67844

ELECTRICAL SITE PLAN

REVISIONS NO.	DATE	DESCRIPTION	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
	2/07		67844	2005	E2	20

6/37

NOTES (APPLICABLE TO SHEETS E1, & E2):

⓪ COORDINATE WITH THE LOCAL POWER UTILITY APT TO PROVIDE NEW POWER AND TELEPHONE SERVICE TO THE MAINTENANCE BLDG. THIS WORK INCLUDES A NEW OVERHEAD POWER AND TELEPHONE LINE TO THE SITE, THEN UNDERGROUND TO THE MAINTENANCE BLDG AND TO THE FUTURE SEA PLANE FLOAT.

PROVIDE ALL CONDUIT AND VAULTS AS SHOWN. THE UTILITY WILL PROVIDE A TRANSFORMER WITH A MANHOLE, A NID (NETWORK INTERFACE DEVICE), CABLES, CONDUCTORS AND CT'S. PROVIDE BLASTING IF REQUIRED AND INSTALL THE UTILITIES' MANHOLE WHERE SHOWN PER THE VAULT DETAIL, SHEET E20. ROUTE CONDUIT INTO MANHOLE AS SHOWN. PROVIDE A CT MOUNTING BASE W/ENCLOSURE ON MAINTENANCE BLDG WALL AS SHOWN.

COORDINATE W/APT TO ALLOW THEM TO INSTALL THEIR TRANSFORMER, CTS, NID, CONDUCTORS & CABLES. APT'S CHARGES WILL BE PAID FOR BY OTHERS.

PROVIDE CONDUIT & VAULTS BETWEEN LAST UTILITY POLE AND SEAPLANE SITE FOR FUTURE POWER AND TELEPHONE SERVICE TO THE SEAPLANE FLOAT. CABLES AND CONDUCTORS WILL BE INSTALLED BY UTILITY AT A FUTURE DATE. PROVIDE PULL-ROPE IN EMPTY CONDUIT.

① PRE-BLAST PILOT HOLES FOR THE FOUR NEW UTILITY POLES. SEE THIS SHEET AND SHEET E2. COORDINATE POLE LOCATIONS AND ELECTRICAL WORK WITH APT. BLASTING FOR THE NEW UTILITY POLES IS INCLUDED IN THIS CONTRACT. UTILITY POLES TO BE PROVIDED AND INSTALLED BY APT. UTILITY CHARGES TO BE PAID BY OTHERS.

NOTES (CONTINUED):

2. ALL MOUNTING HARDWARE, FASTENERS, ETC. SHALL BE STAINLESS STEEL OR HOT DIPPED GALVANIZED. ALL EXPOSED CONDUIT SHALL BE GALVANIZED RIGID STEEL. ALL CONDUCTORS SHALL BE COPPER WITH XHHW INSULATION UNLESS OTHERWISE NOTED.

③ ROUTE ELECTRICAL CONDUIT IN SEWER TRENCH WHERE PRACTICAL. SEE UPLAND WATER AND SEWER UTILITY DRAWINGS, PLANSET D.

④ COORDINATE WITH APT TO PROVIDE A NEW 250W, HPS, TYPE III DISTRIBUTION LUMINAIRE ON THE UTILITY POLE AS HIGH AS POSSIBLE. UTILITY CHARGES TO BE PAID BY OTHERS.

⑤ PROVIDE NEW TYPE 1A HANDHOLE NEXT TO EACH NEW LIGHT POLE. HANDHOLE PER NEW PARKING LOT LIGHT POLE MOUNTING DETAIL, SHEET E20.

⑥ ROUTE NEW CONDUIT FROM UTILITY POLE TO NEW VAULT. STUB GRS CONDUIT UP SIDE OF UTILITY POLE 10' AFG. EACH CONDUIT SHALL HAVE ITS OWN SET OF STANDOFFS. COVER TOP OF CONDUIT SO THAT WATER DOES NOT LEAK INTO CONDUIT (FOR CONDUIT TO SEAPLANE SITE ONLY).

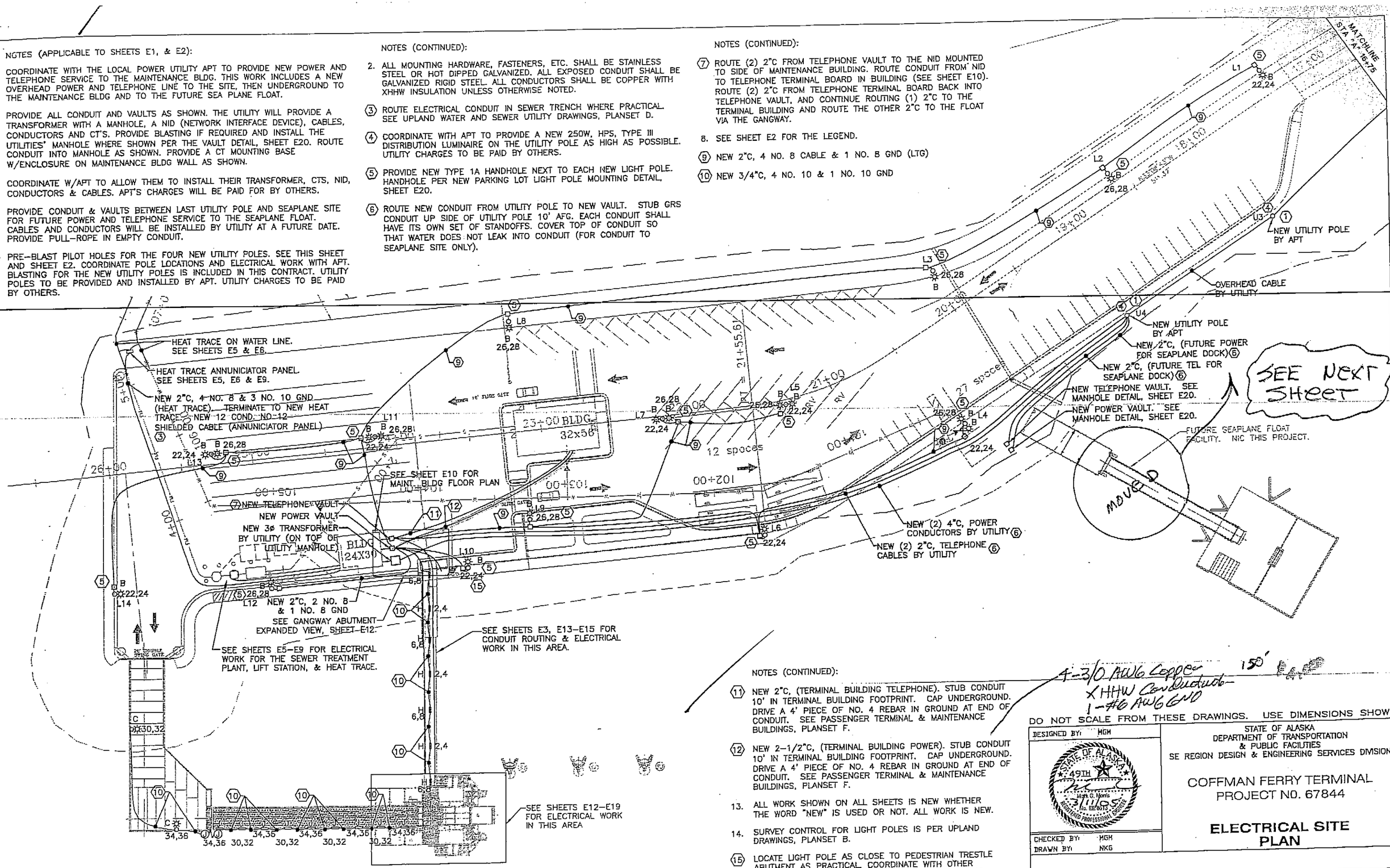
NOTES (CONTINUED):

⑦ ROUTE (2) 2"C FROM TELEPHONE VAULT TO THE NID MOUNTED TO SIDE OF MAINTENANCE BUILDING. ROUTE CONDUIT FROM NID TO TELEPHONE TERMINAL BOARD IN BUILDING (SEE SHEET E10). ROUTE (2) 2"C FROM TELEPHONE TERMINAL BOARD BACK INTO TELEPHONE VAULT, AND CONTINUE ROUTING (1) 2"C TO THE TERMINAL BUILDING AND ROUTE THE OTHER 2"C TO THE FLOAT VIA THE GANGWAY.

8. SEE SHEET E2 FOR THE LEGEND.

⑨ NEW 2"C, 4 NO. 8 CABLE & 1 NO. 8 GND (LTG)

⑩ NEW 3/4"C, 4 NO. 10 & 1 NO. 10 GND



NOTES (CONTINUED):

⑪ NEW 2"C, (TERMINAL BUILDING TELEPHONE). STUB CONDUIT 10' IN TERMINAL BUILDING FOOTPRINT. CAP UNDERGROUND. DRIVE A 4' PIECE OF NO. 4 REBAR IN GROUND AT END OF CONDUIT. SEE PASSENGER TERMINAL & MAINTENANCE BUILDINGS, PLANSET F.

⑫ NEW 2-1/2"C, (TERMINAL BUILDING POWER). STUB CONDUIT 10' IN TERMINAL BUILDING FOOTPRINT. CAP UNDERGROUND. DRIVE A 4' PIECE OF NO. 4 REBAR IN GROUND AT END OF CONDUIT. SEE PASSENGER TERMINAL & MAINTENANCE BUILDINGS, PLANSET F.

13. ALL WORK SHOWN ON ALL SHEETS IS NEW WHETHER THE WORD "NEW" IS USED OR NOT. ALL WORK IS NEW.

14. SURVEY CONTROL FOR LIGHT POLES IS PER UPLAND DRAWINGS, PLANSET B.

⑮ LOCATE LIGHT POLE AS CLOSE TO PEDESTRIAN TRESTLE ABUTMENT AS PRACTICAL. COORDINATE WITH OTHER DISCIPLINES TO AVOID OTHER STRUCTURES INCLUDING WATER PIPE STANTION.

16. SEE SHEET E4 FOR UTILITY POLE AND LIGHT POLE STATION LOCATIONS.

4-3/0 AWG Copper 150' EA
XHHW Conductor
1-#6 AWG GND

DO NOT SCALE FROM THESE DRAWINGS. USE DIMENSIONS SHOWN

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DRAWN BY: NKG
CHECKED BY: MGH

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

COFFMAN FERRY TERMINAL
PROJECT NO. 67844

ELECTRICAL SITE PLAN

REVISIONS NO.	DATE	DESCRIPTION	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
	2/07		67844	2005	E1	20

7/37

TRACT G
CITY OF COFFMAN (

COFFMAN CE
SUBDIVISI

U.S.S. 10099
USFS

14+00
Elev + 29.38
14+26.43
15+00
Elev + 29.93
16+00
Elev + 30.48
17+00
Elev + 31.03
18+00
N 31°08'43" W
511.37'
Elev + 31.86
+0.55' ↗ 19+00
20+00
21+00
22+00
U2
U3
U4
PP
PP
PP

NEW SEAPLANE FLOAT ABUTMENT
@ STA. 19+00, 100' Lt. of CL

REORIENTED FROM
ORIGINAL PLANS –Future
seaplane facility (not in
this project)

(Limit of Midden/Arch Zone)

HUGHTIFIED MIDDEN SITE - LIMITS ESTABLISHED BY DR REGER ON 7/16/05

COVE

K. Miller/J. Scott

STATE OF ALASKA
49th
Kirk D. Miller
CE-8550
REGISTERED PROFESSIONAL ENGINEER

B. Savikko
Staff

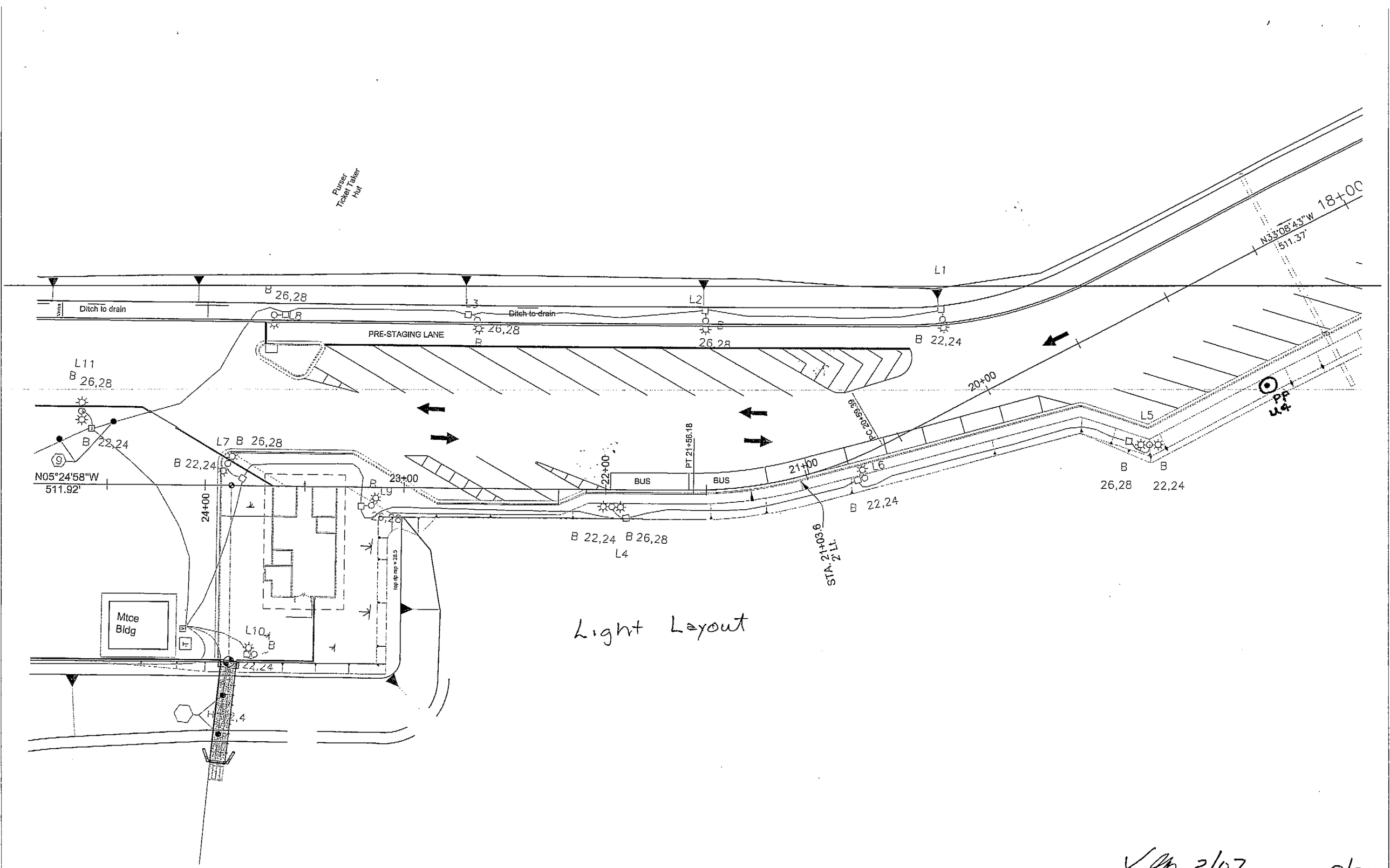
Revised Site Plan
9-8-05
Step 1 Middle

E:\Step 1 Site Plan 9-16-05.dwg
PSPACE 1=1
Tab: Step 1 Middle
Fri, 16/Sep/05 10:59AM

Q:\Pow\67844\MF\Planset\0MasterTitleblk Coffman Cove.dwg

2/07

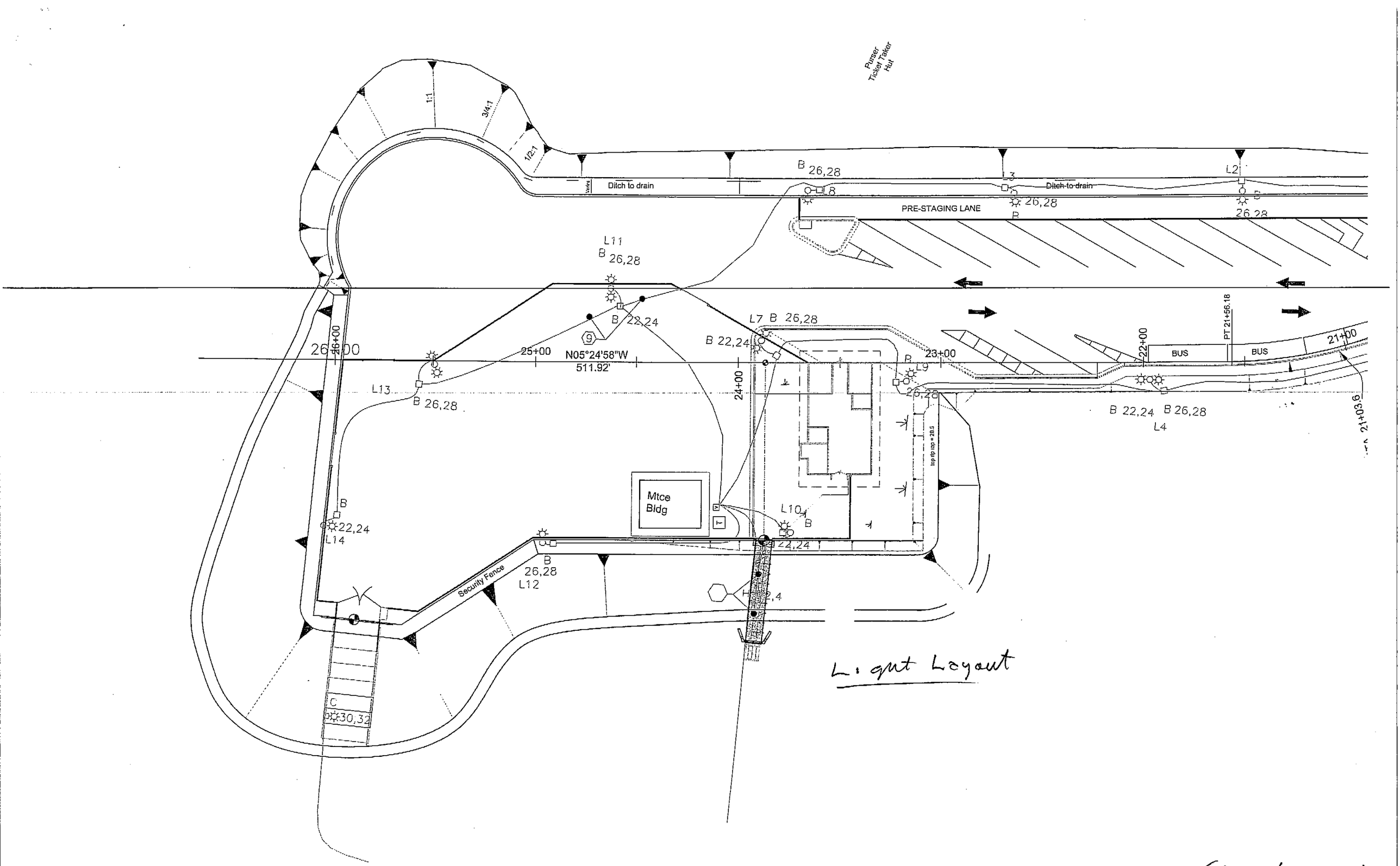
8/37



Light Layout

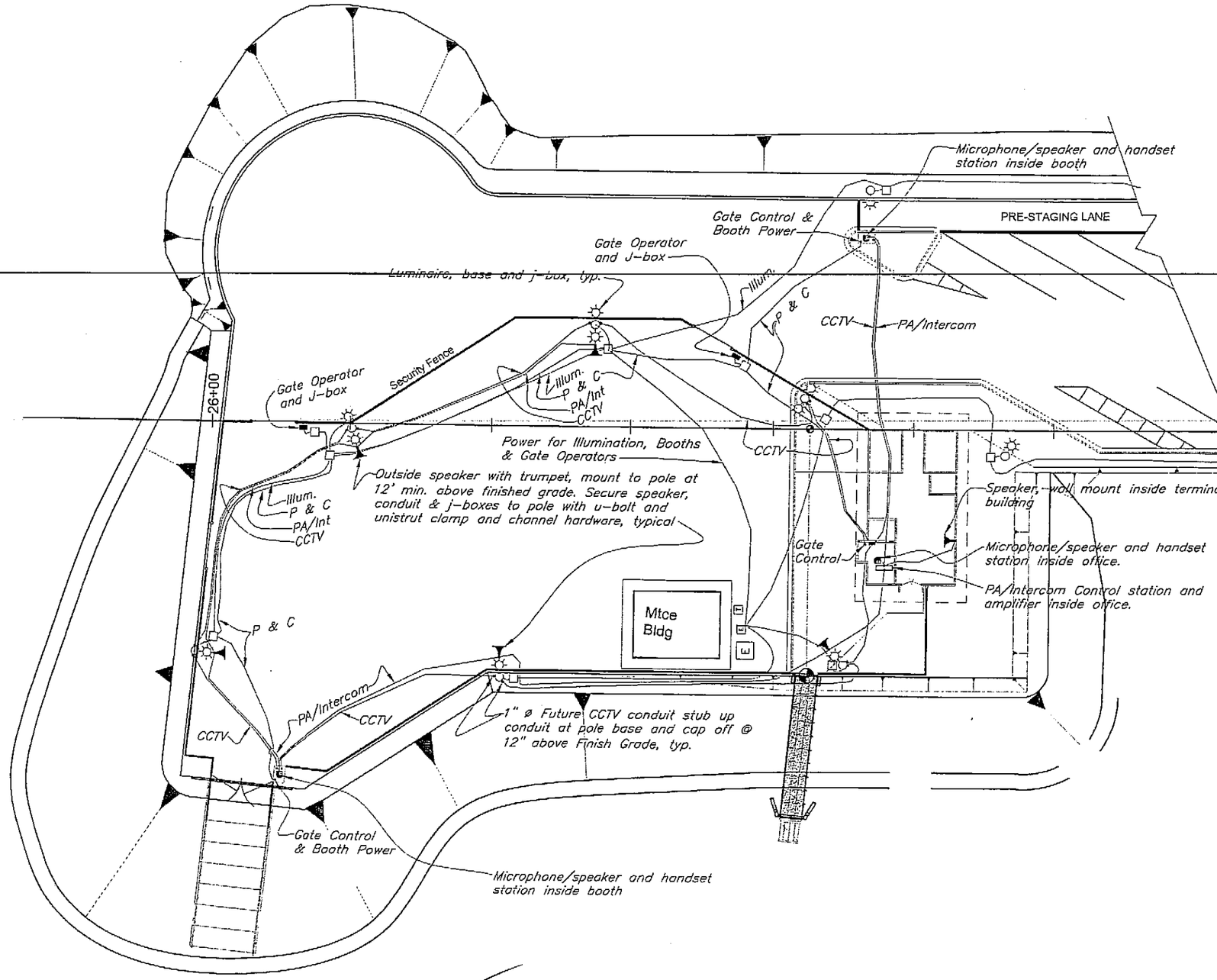
2/07

9/37



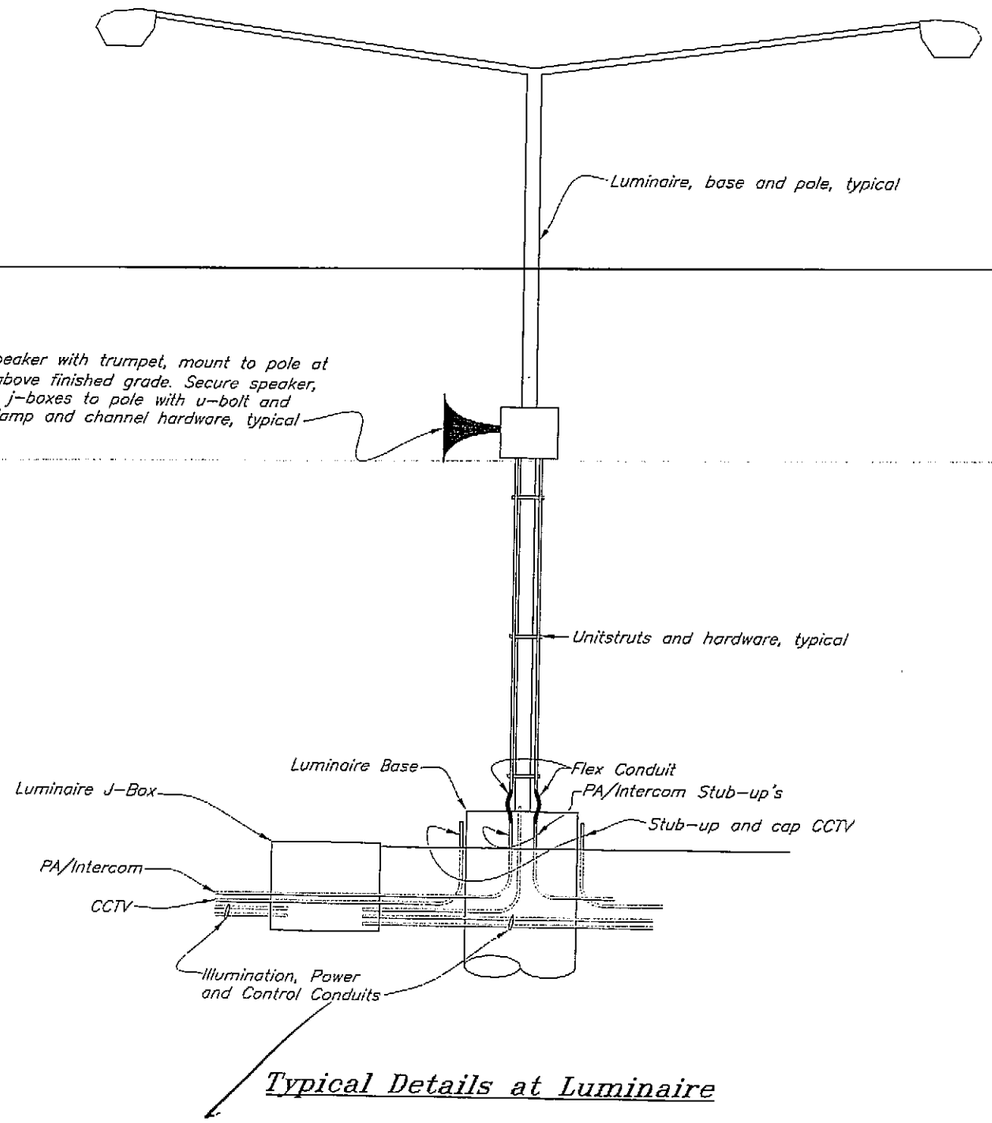
Light Layout

✓gmb 2/07 10/37



Gate – PA / Intercom – Future CCTV Conduit Layout

2/07 11/37



Typical Details at Luminaire

✓ JM 2/07 12/37

PLAN,

PROFILE,

TYPICAL SECTIONS

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND
PUBLIC FACILITIES

Computations

Item No. _____

DATE 9/21/05
Project No. 67844
Project Name Coffman
Calc. by JMB
Checked By R 09/21/05

For VERTICAL INFORMATION
TERMINAL UPLANDS

STA	ELEV		GRADE
10+00	39.97	BOP	
			-2.626 ✓
14+20	28.94	AP	
			+0.312 ✓
24+00	32.00	AP	
			-1.780 ✓
26+00	28.44	EOP	

CONTROL POINT ELEV.

		STA	ELEV	OFFSET
PEDESTRIAN	ABUTEMENT	23+86.70 ✓	30.68	88.85 ℄
VEHICLE	ABUTEMENT	25+88.71 ✓	26.04 ✓	129.88 ℄

* See PLANS FOR OFFSET BEARING from STA.

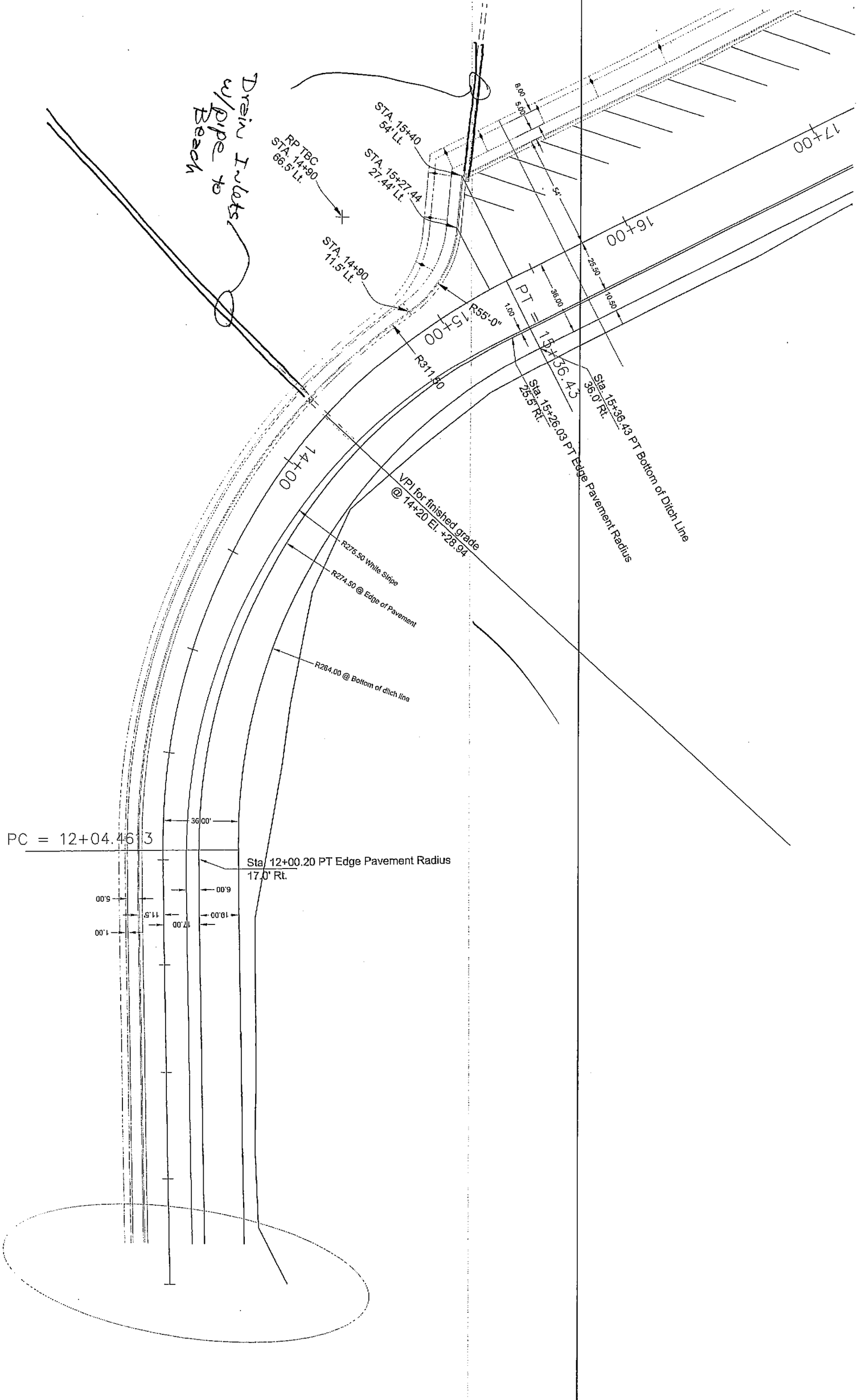
STA	OLD	NEW	DIFFERENCE
14+00	29.47	29.47	0 ✓
15+00	28.62 ✓	29.19 ✓	+0.6 ✓
16+00	28.23	29.50 ✓	+1.3 ✓
~~17+00~~	~~27.83~~	~~29.81~~ ✓	~~+2.0~~ ✓
18+00	27.43 ✓	30.12 ✓	+2.7 ✓
19+00	27.04	30.43 ✓	+3.4 ✓
20+00	26.69	30.74 ✓	+4.1 ✓
21+00	27.32 ✓	31.05 ✓	+3.7 ✓
22+00	27.99	31.36 ✓	+3.4 ✓
23+00	28.35	31.67 ✓	+3.3 ✓
24+00	27.95	32.00 ✓	+4.0 ✓
25+00	27.41 ✓	30.22 ✓	+2.8 ✓
26+00	26.87	28.44 ✓	+1.6 ✓

Ave. = 2.75

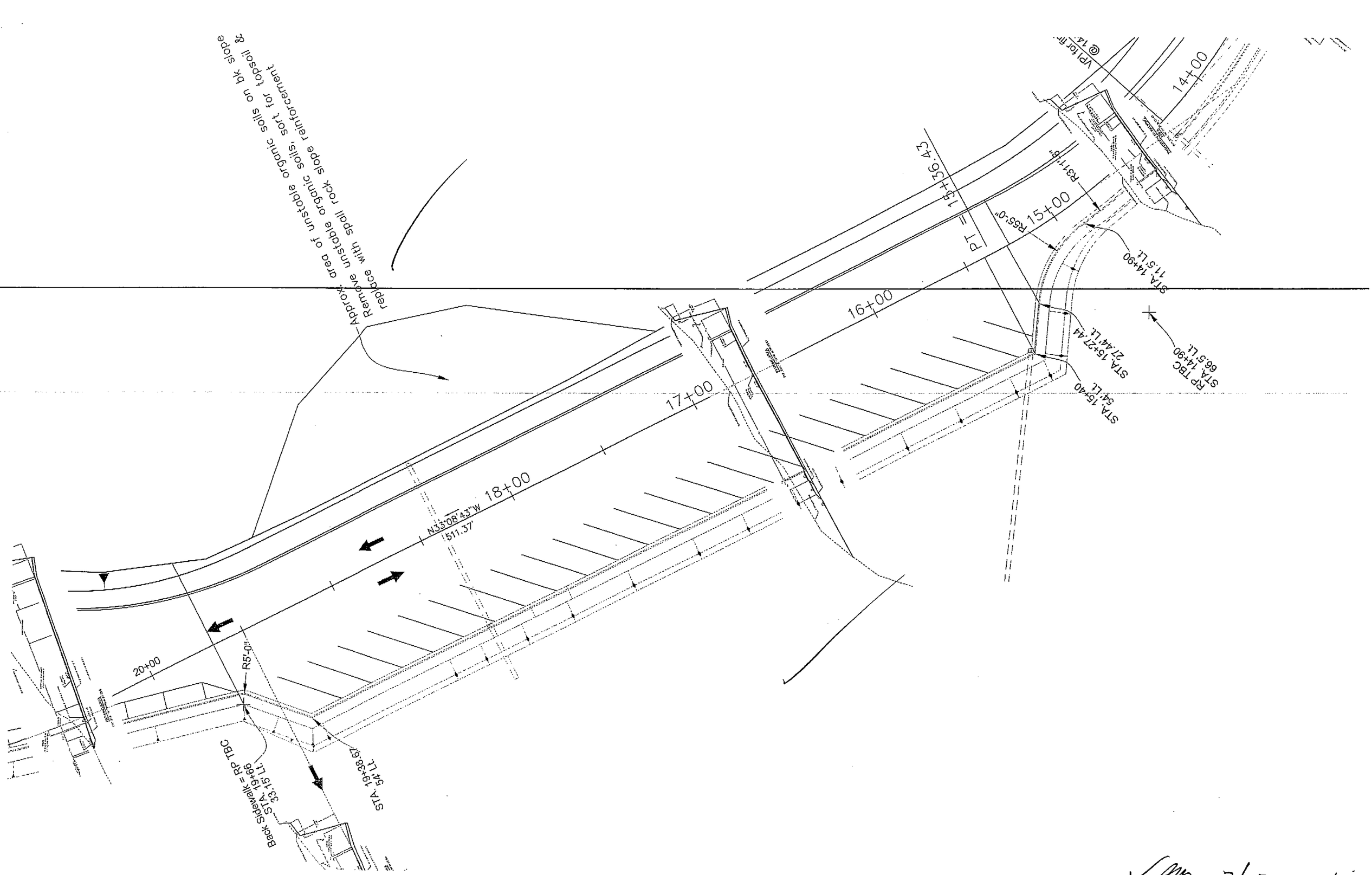
CMP LOCATIONS

① ± 14+00
② ± 18+00
③ INLETS

✓JMB 2/07 13/37


Drain Inlets w/Pipe to Beach
RP TBC STA 14+90 66.5' Lt.
STA 15+40 54' Lt.
STA 15+27.44 27.44' Lt.
STA 14+90 11.5' Lt.
R55'-0"
R311.50
PT = 15+36.43
Sta. 15+36.43 PT Bottom of Ditch Line 36.0' Rt.
Sta. 15+26.03 PT Edge Pavement Radius 25.5' Rt.
VPI for finished grade @ 14+20 El. +28.94
R275.50 White Stripe
R274.50 @ Edge of Pavement
R264.00 @ Bottom of ditch line
PC = 12+04.46
Sta. 12+00.20 PT Edge Pavement Radius 17.0' Rt.
36.00'
8.00
5.00
54'
25.50
10.50
1.00
6.00
19.00
17.00
11.5'
5.00
1.00
12+00
14+00
15+00
16+00
17+00

14/37


Approx. area of unstable organic soils on bk slope
Remove unstable organic soils, sort for topsoil &
replace with spall rock slope reinforcement
14+00
15+00
16+00
17+00
18+00
20+00
VPI for ℄
℄
PT = 13+36.43
R311'6"
R55'-0"
R5'-0"
STA. 14+90
11.5'LL
STA. 15+27.44
27.44'LL
STA. 15+40
54'LL
RP TBC
STA. 14+90
66.5'LL
N33°08'43"W
511.37'
STA. 19+38.67
54'LL
Back Sidewalk = RP TBC
STA. 19+66.19
33.15'LL

✓ GD, 2/07 15/37

Approx. area of unstable organic soils on bk slope
Remove unstable organic soils, sort for topsoil &
replace with spall rock slope reinforcement

RP TBC
STA. 23+70.71
68.0' Rt.

RP TBC STA. 23+54.17
60.68' Rt.

RP TBC STA. 23+44.17
70.0' Rt.

Purser
Ticket Taker
Hut

STA. 23+86.7
16.5' Rt.

STA. 23+59

STA. 23+30

STA. 23+91.7

STA. 23+66

S84°35'02"W
88.85'

HCP curb-cut
& ramp, typ.

Security Fence

STA. 23+58, 66' Lt.

STA. 23+58, 66' Lt.

STA. 23+80, 89' Lt.

STA. 23+06.67, 13' Lt.

RP TBC
STA. 21+56.18
202' Rt.

Sta. 20+21.5 PT Edge of Pavement Radius
48.47' Rt.

Sta. 20+18.88 PT Bottom of Ditch Line
56.79' Rt.

R200.00 @ Edge of Pavement Radius

R161.00 @ Bottom of Ditch Line

Sta. 19+34.66 PC Bottom of Ditch Line
36.0' Rt.

Sta. 19+28.45 PC Edge of Pavement Radius
25.5' Rt.

Ditch to drain

PRE-STAGING LANE

Sta. 20+25 Begin Pre-stage lane
36.75' Rt.

PC 20+39.38

PT 21+56.18

STA. 22+83.4
8' Lt.

STA. 22+23.19
8' Lt.

STA. 22+09.58
2' Lt.

STA. 21+56.18
2' Lt.

STA. 21+03.6
2' Lt.

R202'-0"

Back Sidewalk = RP TBC
STA. 19+99.16
33.15' Lt.

HCP curb cut
& ramp, typ.

STA. 19+38.67
54.95' Lt.

STA. 19+00
Curb cut for
future Seaplane Float

N53°08'43"W
511.37'

18+00

20+00

21+00

22+00

23+00

24+00

BUS

BUS

R5.00

R3.00

R1.00

1.0'

8.5'

11.00

24.00

31.5'

49.50

10.00

8.0'

5.00

2.0'

15.50

10.00

10.42

top rip-rap = 28.5

10.69

10.0'

25.50'

10.0'

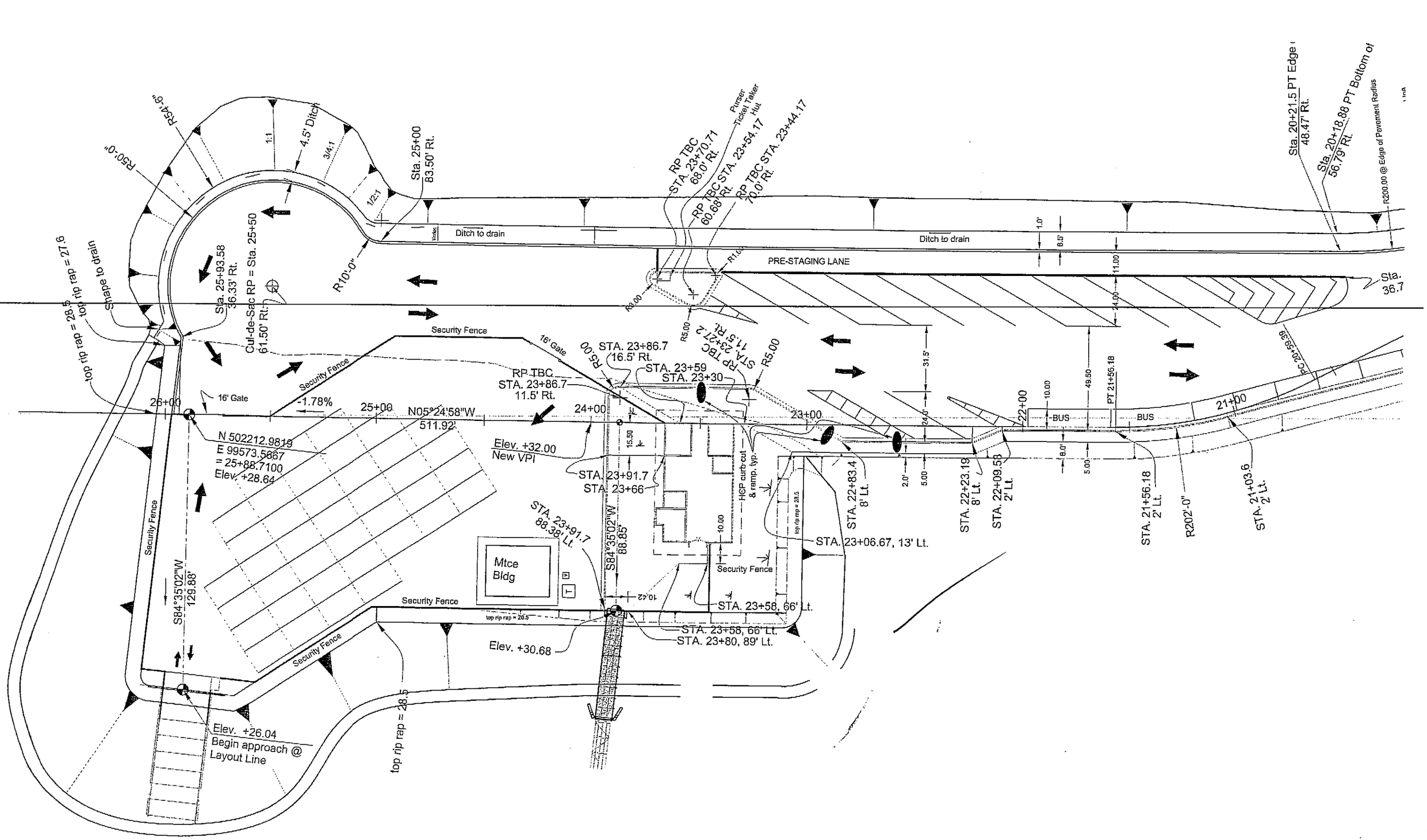
5.00

8.00

5.00

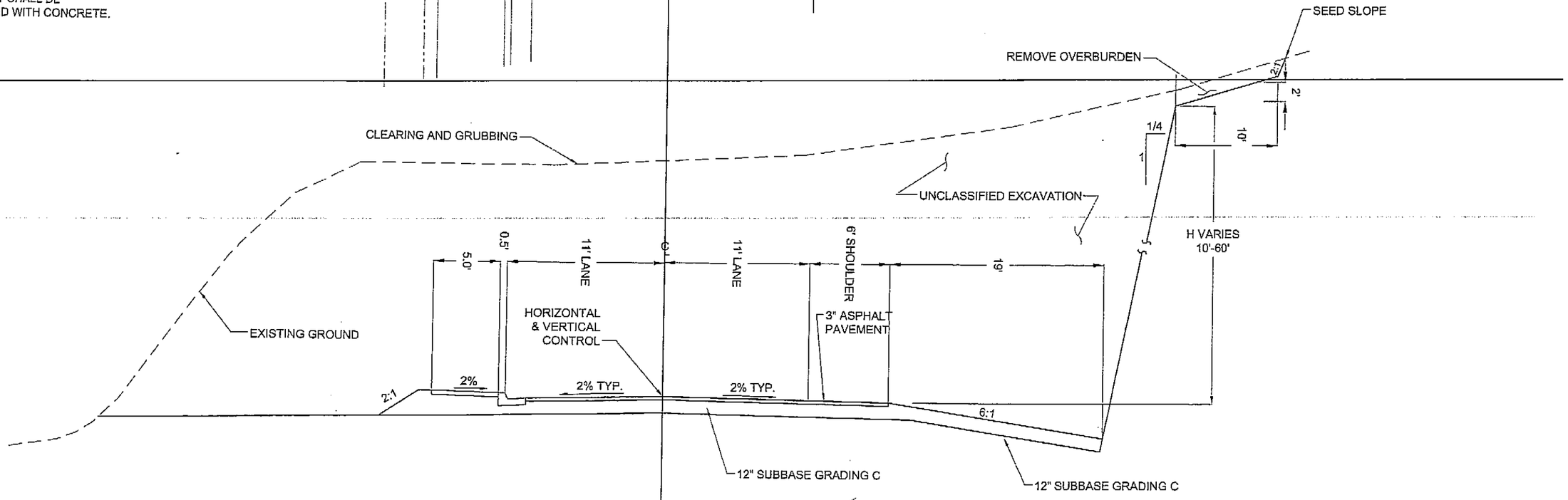
2/07

16/37


R54'-9"
R50'-0"
1:1
4.5' Ditch
3/4:1
1/2:1
Sta. 25+00
83.50' Rt.
Ditch to drain
RP TBC
STA. 23+70.71
68.0' Rt.
RP TBC STA. 23+54.17
60.68' Rt.
RP TBC STA. 23+44.17
70.0' Rt.
Purser Ticket Teller Hut
Sta. 20+21.5 PT Edge
48.47' Rt.
Sta. 20+18.88 PT Bottom of
56.79' Rt.
R200.00 @ Edge of Pavement Radius
PRE-STAGING LANE
Sta. 36.7
top rip rap = 28.5
top rip rap = 27.6
Shape to drain
Sta. 25+93.58
36.33' Rt.
Cul-de-Sac RP = Sta. 25+50
61.50' Rt.
R10'-0"
Security Fence
16' Gate
STA. 23+86.7
16.5' Rt.
STA. 23+59
STA. 23+30
RP TBC
STA. 23+86.7
11.5' Rt.
R5.00
11.5' Rt.
STA. 23+27.2
RP TBC
R5.00
26+00
-1.78%
25+00
N05°24'58"W
511.92'
24+00
23+00
22+00
21+00
BUS
BUS
PT 21+56.18
N 502212.9819
E 99573.5667
= 25+88.7100
Elev. +28.64
Elev. +32.00
New VPI
STA. 23+91.7
STA. 23+66
HCP curb-cut
& ramp, typ.
STA. 22+83.4
8' Lt.
STA. 22+23.19
8' Lt.
STA. 22+09.58
2' Lt.
STA. 21+56.18
2' Lt.
R202'-0"
STA. 21+03.6
2' Lt.
STA. 23+06.67, 13' Lt.
STA. 23+91.7
88.38' Lt.
S84°35'02"W
88.85'
Mtce
Bldg
Security Fence
S84°35'02"W
129.88'
STA. 23+58, 66' Lt.
STA. 23+58, 66' Lt.
STA. 23+80, 89' Lt.
Elev. +30.68
top rip rap = 28.5
Elev. +26.04
Begin approach @
Layout Line
31.5'
24.0'
49.50
10.00
8.0'
5.00
2.0'
1.0'
8.5'
11.00
14.00

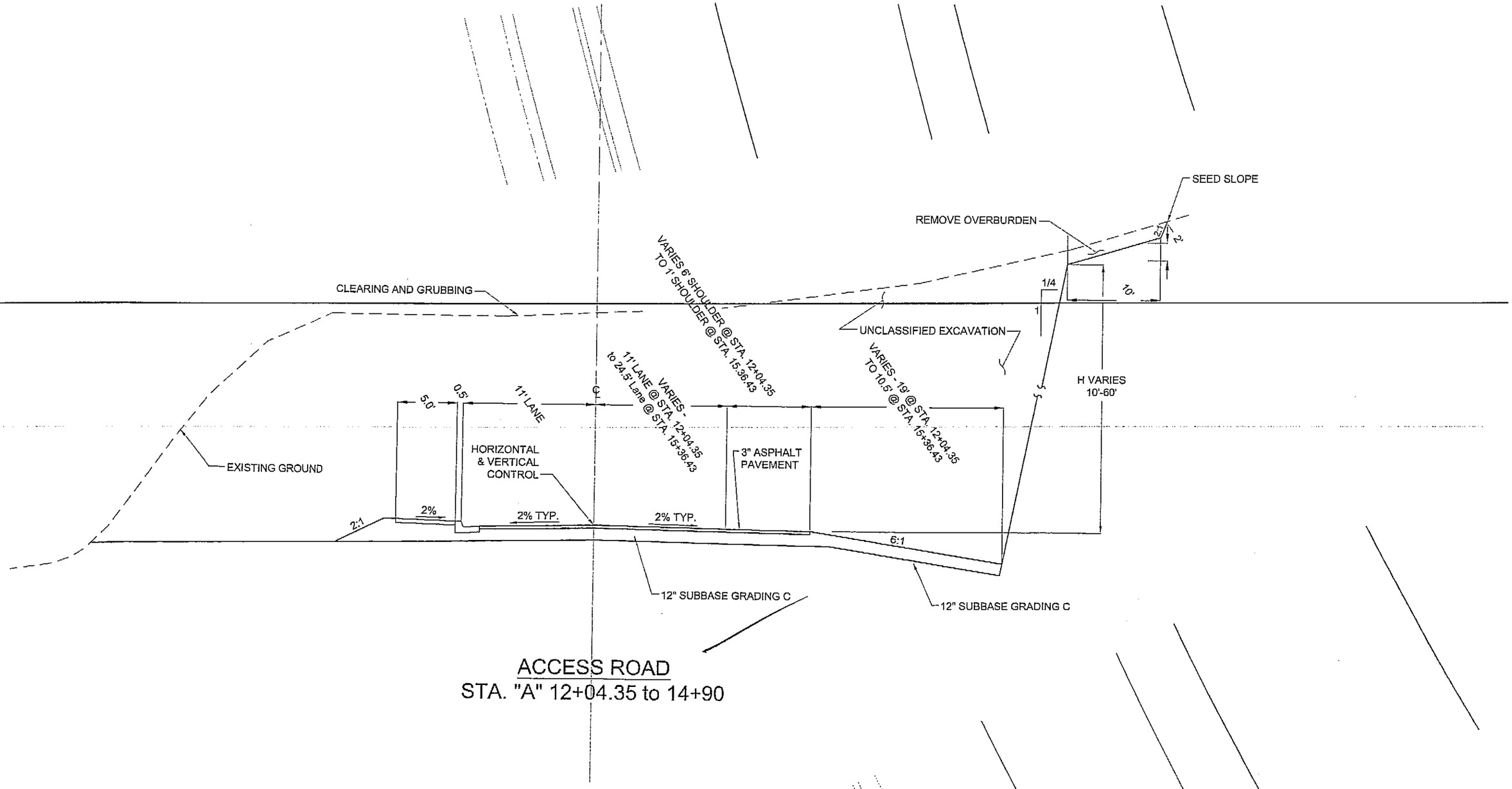
Sym 2b7 17/37

NOTES:
1.) SUPER ELEVATION ROTATED ABOUT CENTERLINE.
2.) FENCE POST AT TOP OF CUT SHALL BE DRILLED IN ROCK AND FILLED WITH CONCRETE.



ACCESS ROAD
STA. "A" 10+00 to 12+04.35

2/07 18/37

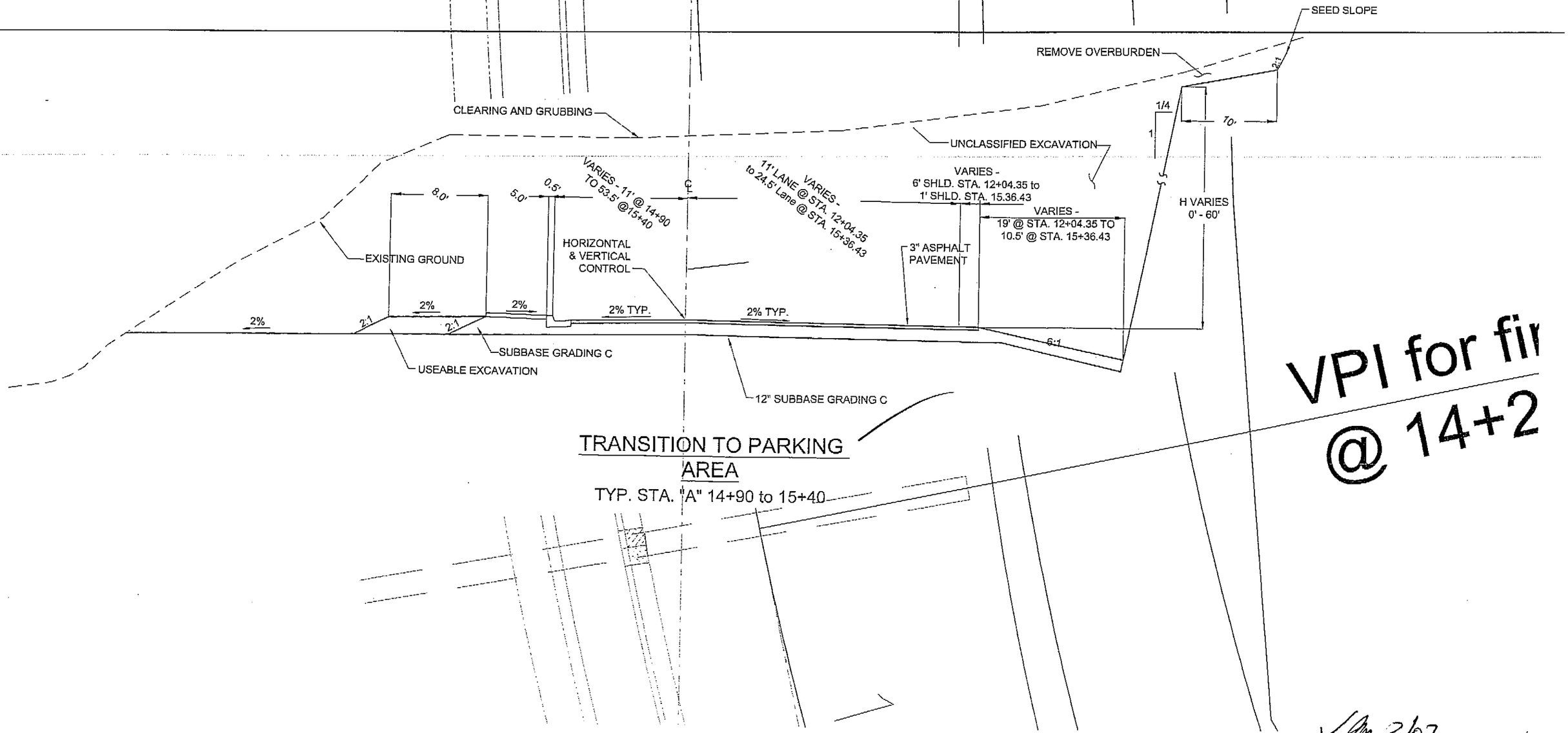


ACCESS ROAD
STA. "A" 12+04.35 to 14+90

2/07 19/37

STA. 14+90
11.5' Lt.

R311'-6"



TRANSITION TO PARKING AREA

TYP. STA. "A" 14+90 to 15+40

VPI for fi
@ 14+2

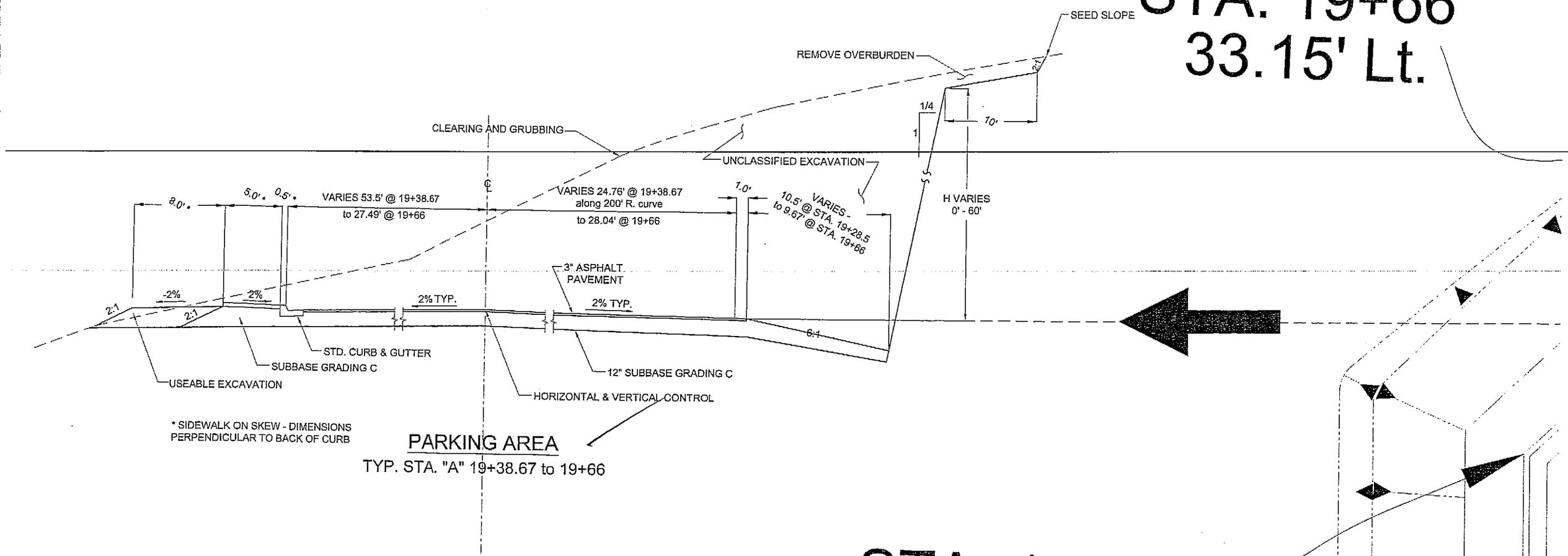
2/07

20/37

Back Sidewalk = RP T

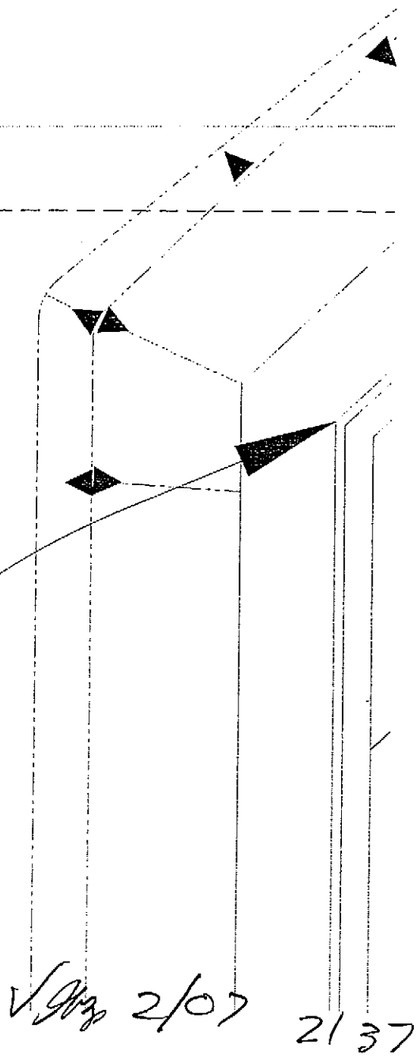
STA. 19+66

33.15' Lt.

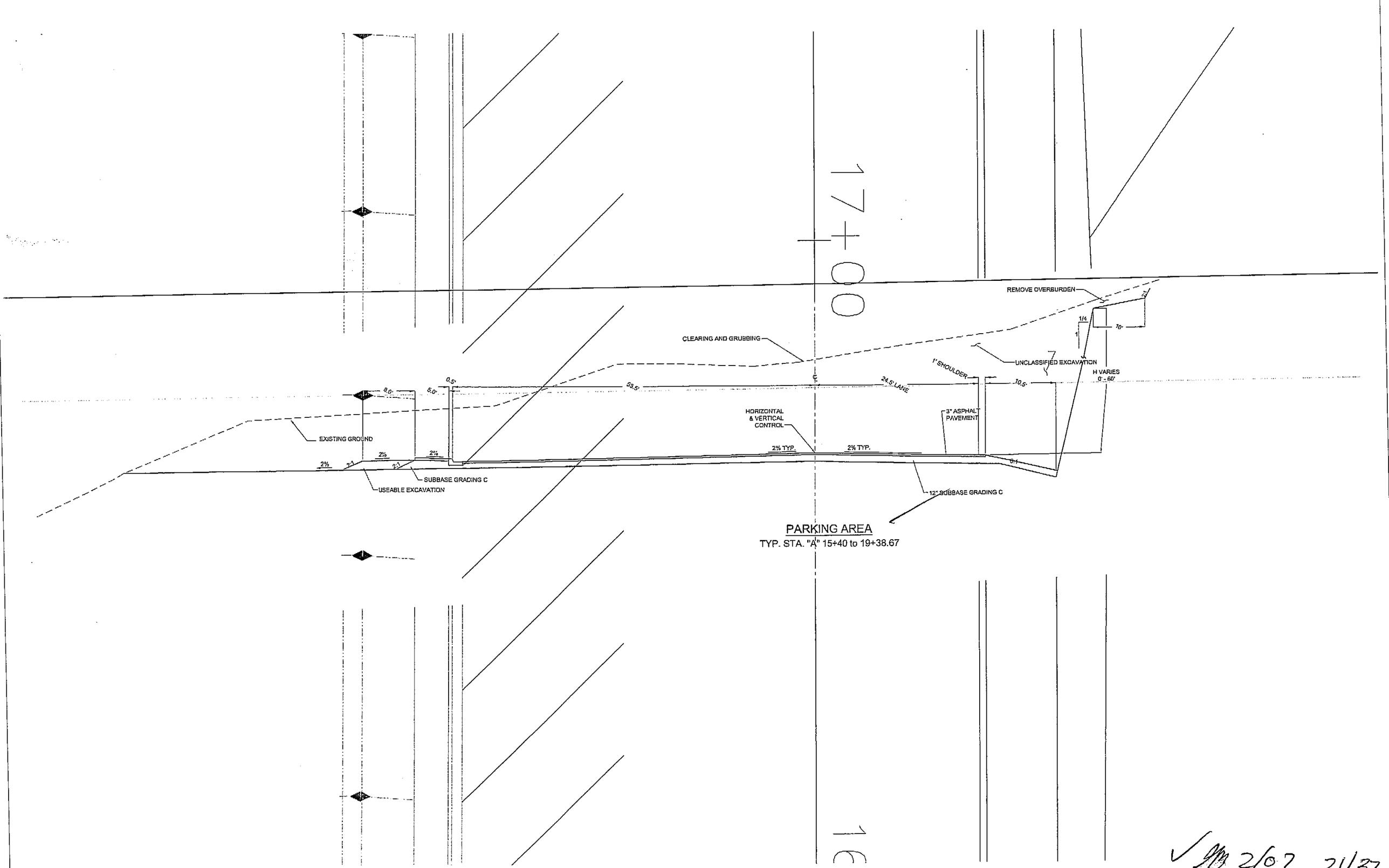


STA. 19+38.67

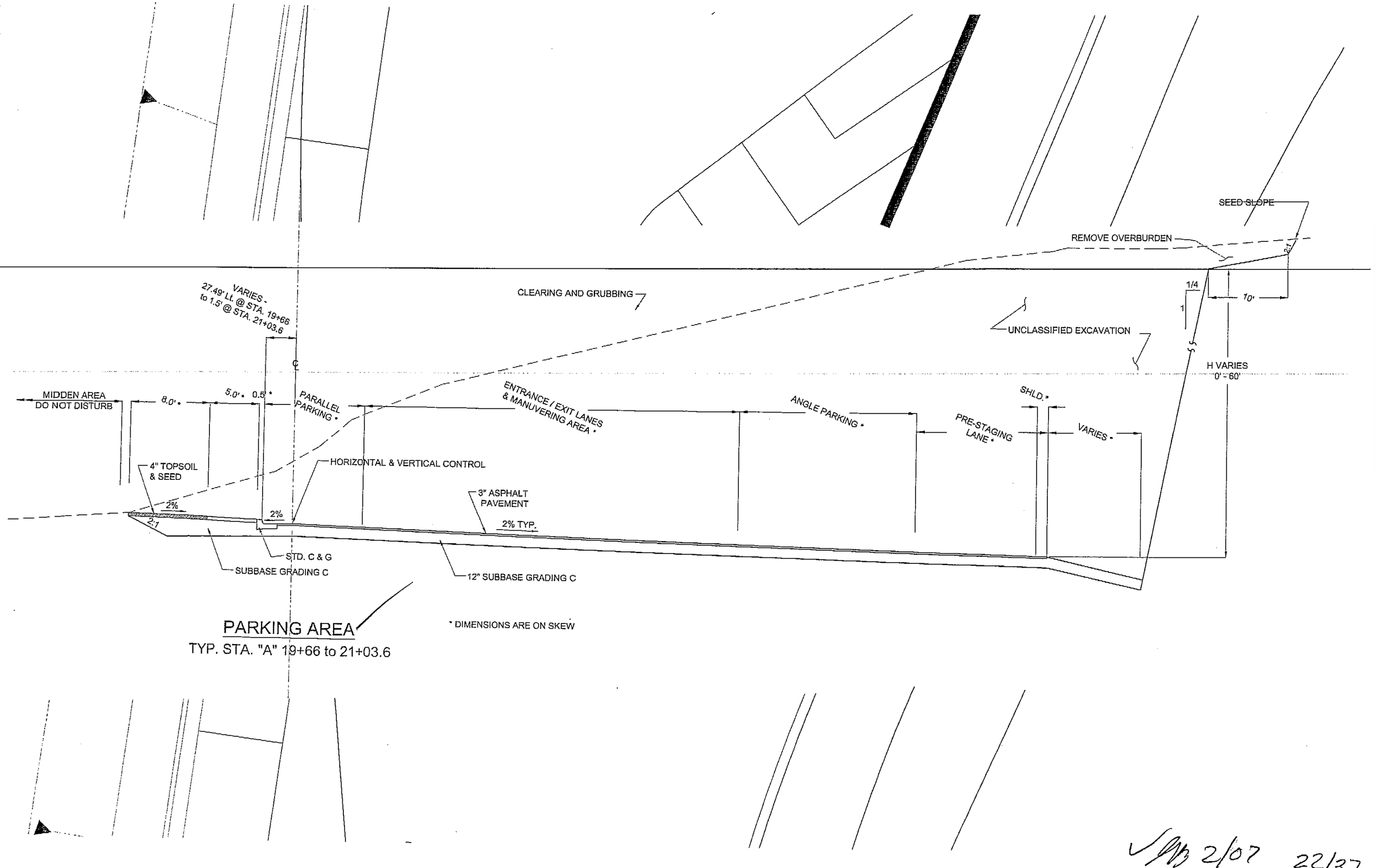
54' Lt.



V Gtz 2/07 2137


17+00
REMOVE OVERBURDEN
CLEARING AND GRUBBING
UNCLASSIFIED EXCAVATION
1' SHOULDER
℄
24.5' LANE
10.5'
H VARIES
0' - 60'
1/4
1
10'
8.0'
5.0'
0.5'
53.5'
EXISTING GROUND
HORIZONTAL
& VERTICAL
CONTROL
3" ASPHALT
PAVEMENT
2% TYP.
2% TYP.
2%
2%
2%
2:1
2:1
2:1
SUBBASE GRADING C
USEABLE EXCAVATION
12" SUBBASE GRADING C
PARKING AREA
TYP. STA. "A" 15+40 to 19+38.67

2/07 21/37



PARKING AREA

TYP. STA. "A" 19+66 to 21+03.6

* DIMENSIONS ARE ON SKEW

2/07

STA. 22+83.4
8' Lt.

+00

CLEARING AND GRUBBING

REMOVE OVERBURDEN

SEED

83.5'

UNCLASSIFIED EXCAVATION

MIDDEN AREA
DO NOT DISTURB

8.0'

5.0'

4" TOPSOIL
& SEED

0.5'

1.5'

2%

2:1

24.0'

31.5' ENTRANCE / EXIT & MANUVERING

24.0' ANGLE PARKING

11.0'
PRE-STAGE
LANE

1.0'
SHLD

8.5'

H VARIES
0' - 60'

HORIZONTAL & VERTICAL CONTROL

3" ASPHALT
PAVEMENT

2% TYP.

STD. C & G

SUBBASE GRADING C

12" SUBBASE GRADING C

VARIES

1.0'

1/4

10'

PARKING AREA

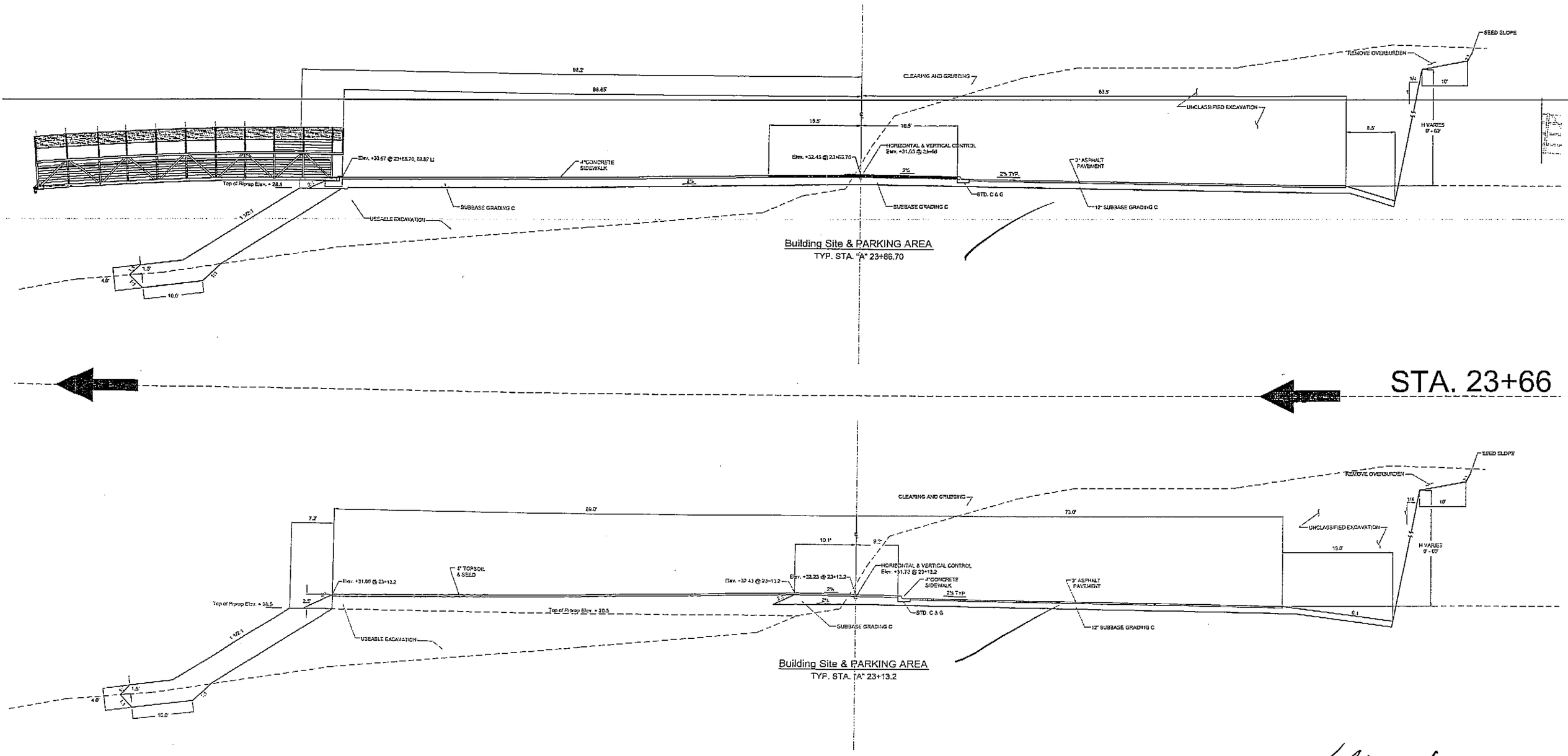
TYP. STA. "A" 22+23.19 to 22+83.4

STA. 22+23.19
8' Lt.

STA. 22+09.58
2' Lt.

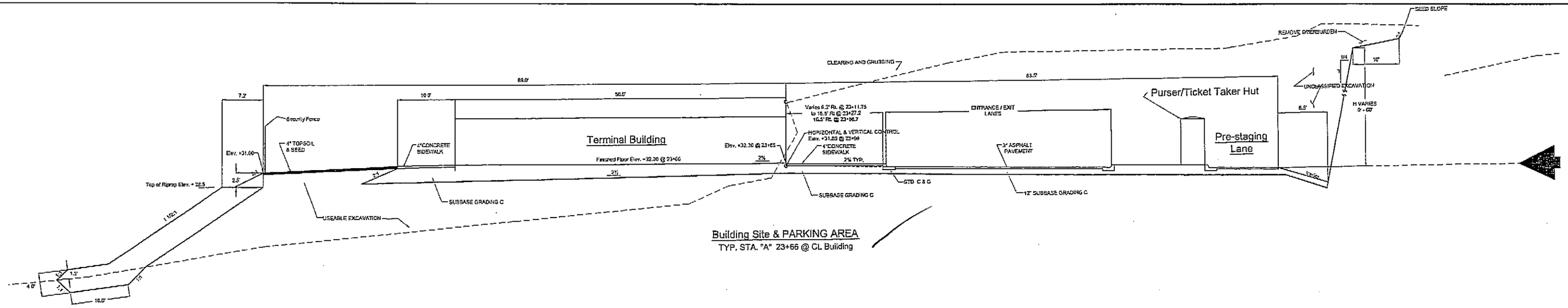
22+00

✓ 2/07 23/37

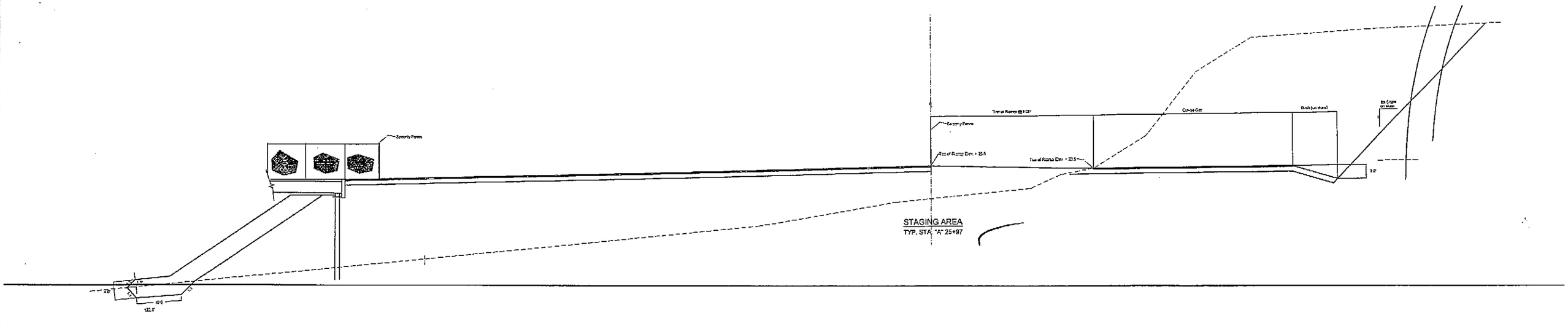

63.2'
88.65'
CLEARING AND GRUBBING
63.5'
REMOVE OVERBURDEN
SEED SLOPE
UNCLASSIFIED EXCAVATION
15.5'
16.5'
8.5'
H VARIES
0' - 63'
Elev. +30.67 @ 23+65.70, 88.65' Lt
4"CONCRETE SIDEWALK
Elev. +32.45 @ 23+63.70
HORIZONTAL & VERTICAL CONTROL
Elev. +31.05 @ 23+60
3" ASPHALT PAVEMENT
Top of Riprap Elev. = 28.5
SUBBASE GRADING C
STD. C & G
12" SUBBASE GRADING C
USEABLE EXCAVATION
Building Site & PARKING AREA
TYP. STA. "A" 23+86.70
STA. 23+66
89.0'
73.0'
7.2'
10.1'
9.2'
4" TOPSOIL & SEED
Elev. +31.00 @ 23+13.2
Elev. +32.43 @ 23+13.2
Elev. +32.23 @ 23+12.2
HORIZONTAL & VERTICAL CONTROL
Elev. +31.73 @ 23+13.2
4"CONCRETE SIDEWALK
3" ASPHALT PAVEMENT
Top of Riprap Elev. = 28.5
STD. C & G
12" SUBBASE GRADING C
USEABLE EXCAVATION
Building Site & PARKING AREA
TYP. STA. "A" 23+13.2

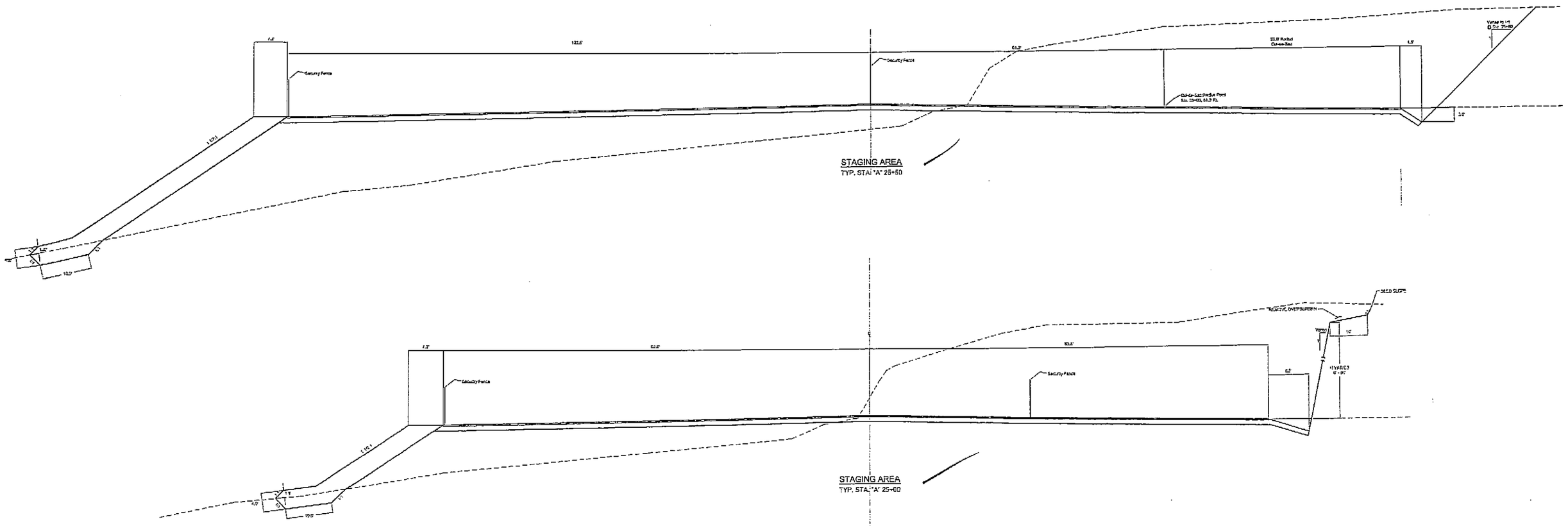
2/07 24/37




CLEARING AND GRUBBING
REMOVE OVERBURDEN
SEED SLOPE
UNCLASSIFIED EXCAVATION
H VARIES 0' - 60'
1H
1V
10'
89.0'
83.5'
7.2'
10.0'
50.0'
8.5'
Gravity Fence
4" TOPSOIL & SEED
4" CONCRETE SIDEWALK
Terminal Building
Finished Floor Elev. +32.30 @ 23+66
Elev. +32.30 @ 23+65
Varies 6.3' Rt. @ 23+11.75 to 15.5' Rt @ 23+27.2 16.5' Rt. @ 23+56.7
HORIZONTAL & VERTICAL CONTROL Elev. +31.83 @ 23+66
4" CONCRETE SIDEWALK
2% TYP.
ENTRANCE / EXIT LANES
3" ASPHALT PAVEMENT
Purser/Ticket Taker Hut
Pre-staging Lane
Elev. +31.00
2.5'
2%
Top of Riprap Elev. + 28.5
SUBBASE GRADING C
STD C & G
12" SUBBASE GRADING C
USEABLE EXCAVATION
1.5:1
4.0'
1.5'
16.0'
Building Site & PARKING AREA
TYP. STA. "A" 23+66 @ CL Building

✓ 3 2/07 25/37


Security Fence
Top of Ramp Elev. = 25.5
Top of Ramp Elev. = 23.5
Cut-de-Sac
Ditch (un-lined)
Ex. Slope on Main
3.0'
STAGING AREA
TYP. STA. "A" 25+97
10.0'
122.5'


122.5'
Security Fence
61.3'
Cut-de-Sac Radial Point
Sta. 25+00, 61.3' Rt.
3.0'
STAGING AREA
TYP. STA. "A" 25+50
10.0'
STAGING AREA
TYP. STA. "A" 25+00
DEED SLOPE
10.0'

V GB 2/07 26/37

N 502011.8713
E 99592.6340
= 23+86.7000

Purser Ticket Taker Hut

urity Fence

'6" Gate

Elev. +32.00
New VPI

Mtce
Bldg

Elev. +30.68

top rip rap = 28.5

STA. 23+91.7
88.38' Lt.

24+00

R5'-0"

S84°35'02"W
88.85'

RP TBC
STA. 23+86.7
11.5' Rt.

RP TBC
STA. 23+27.2
11.5' Rt.

R5'-0"

. 23+66 = CENTERLINE OF BUILDING

Security Fence

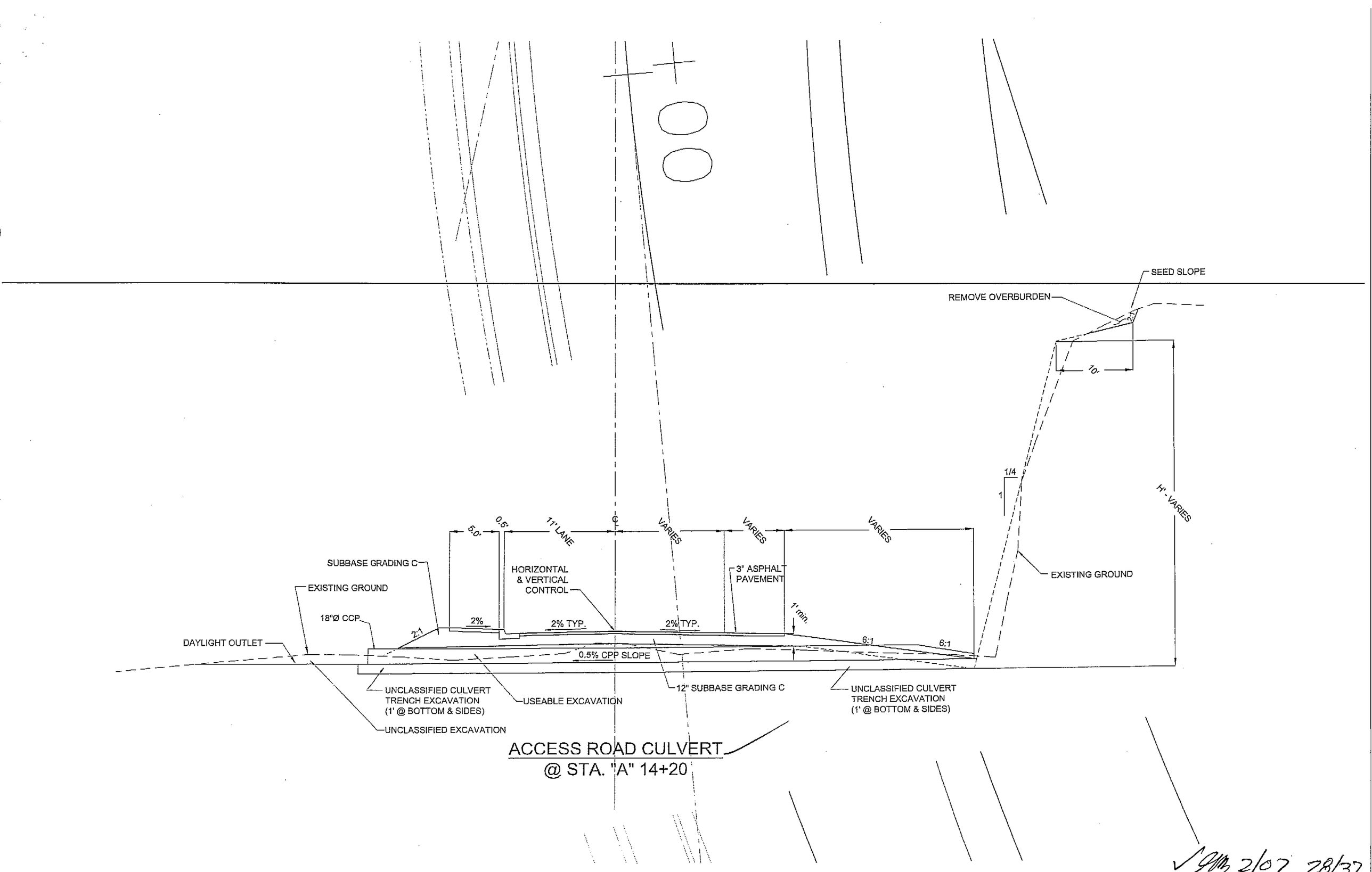
23+00

PRE-STAGING LANE

STA. 22+83.4
8' Lt.

2/07

27/37

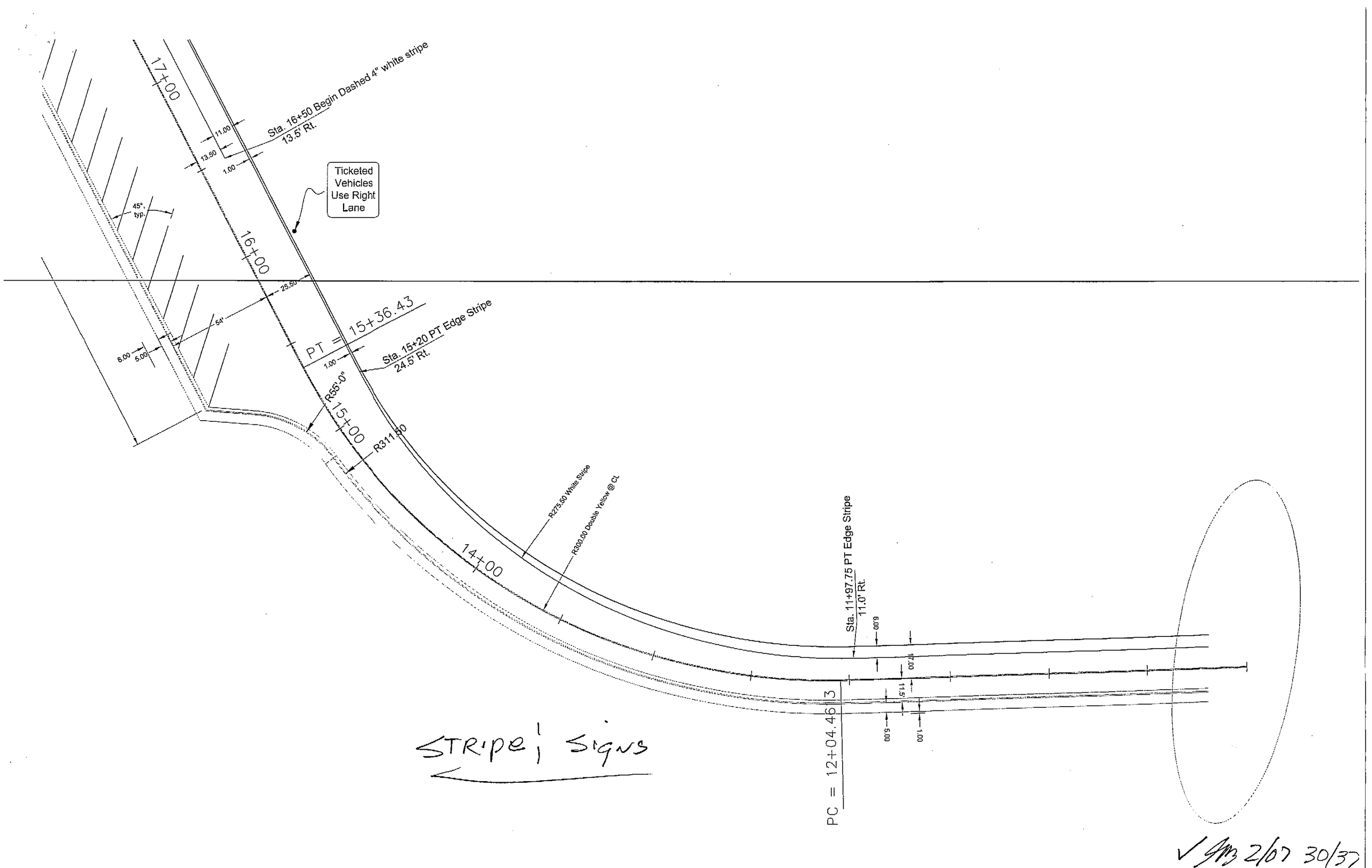


ACCESS ROAD CULVERT
@ STA. "A" 14+20

✓ 2/07 28/37

SIGNING & STRIPING
PLANS

✓ gm 2/07 29/3



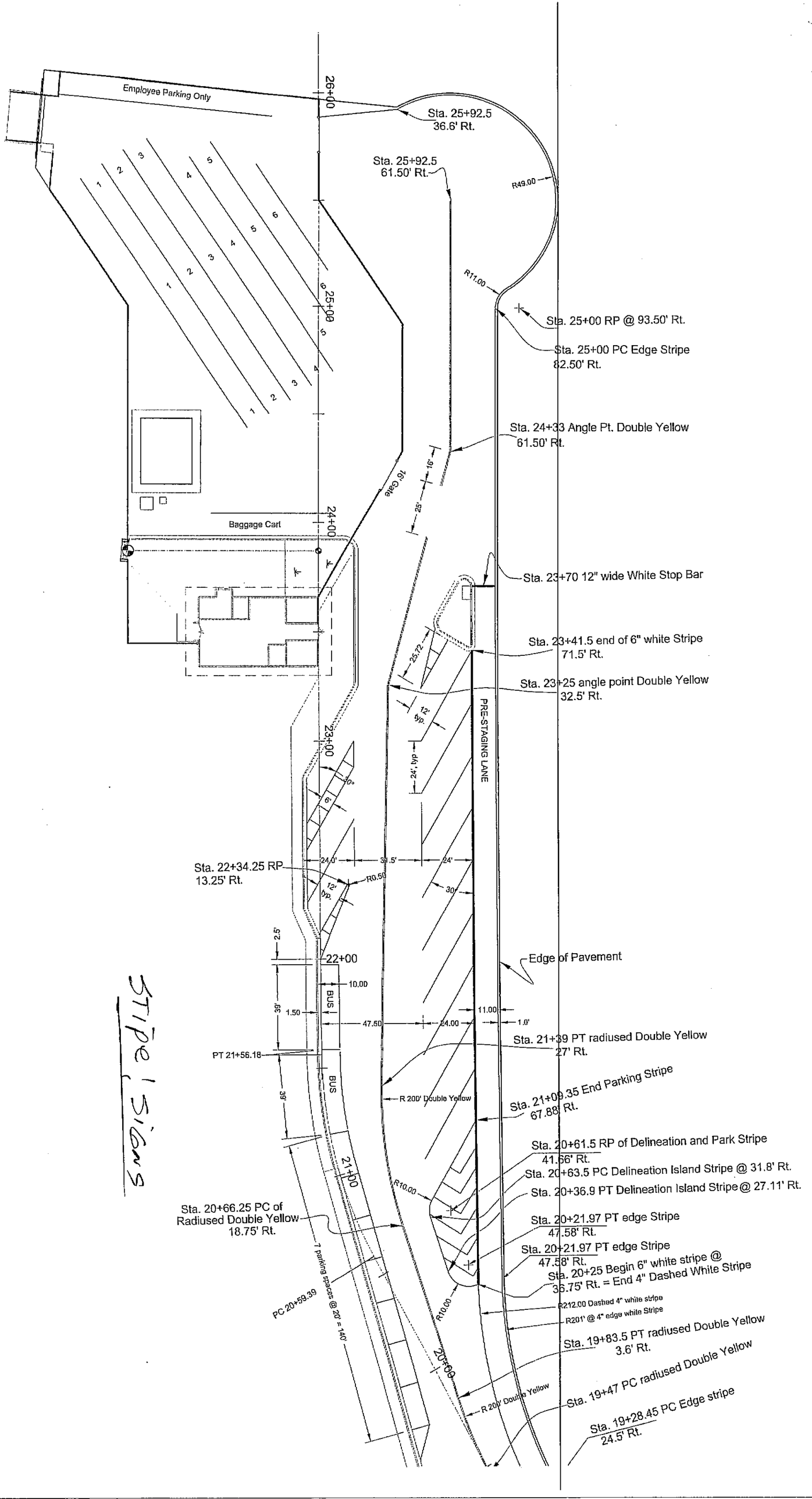
STRIPE; SIGNS

✓ JM 2/07 30/37

Sta. 23+70 12" wide White Stop Bar
Sta. 23+41.5 end of 6" white Stripe 71.5' Rt.
Sta. 23+25 angle point Double Yellow 32.5' Rt.
PRE-STAGING LANE
Edge of Pavement
Sta. 21+39 PT radiused Double Yellow 27' Rt.
Sta. 21+09.35 End Parking Stripe 67.88' Rt.
Sta. 20+61.5 RP of Delineation and Park Stripe 41.66' Rt.
Sta. 20+63.5 PC Delineation Island Stripe @ 31.8' Rt.
Sta. 20+36.9 PT Delineation Island Stripe @ 27.11' Rt.
Sta. 20+21.97 PT edge Stripe 47.58' Rt.
Sta. 20+21.97 PT edge Stripe 47.58' Rt.
Sta. 20+25 Begin 6" white stripe @ 36.75' Rt. = End 4" Dashed White Stripe
R212.00 Dashed 4" white stripe
R201' @ 4" edge white Stripe
Sta. 19+83.5 PT radiused Double Yellow 3.6' Rt.
Sta. 19+47 PC radiused Double Yellow
Sta. 19+28.45 PC Edge stripe 24.5' Rt.
25.72'
12' typ.
24' typ.
24'
30'
35.5'
R0.50
24.00'
23+00
6'
24.0'
12' typ.
22+00
10.00
47.58'
BUS
BUS
2.5'
1.50'
.66'
39'
21+00
20+00
18+00
17+00
11.00
1.0'
11.00'
4.00'
R 200' Double Yellow
R10.00
R10.00
R 200' Double Yellow
28.25'
31.25'
28.25'
R3.09
R40.00
12'
6'
12'
Sta. 22+34.25 RP 13.25 Rt.
PT 21+56.18
7 parking spaces @ 20' = 140'
Sta. 20+66.25 PC of Radiused Double Yellow 18.75' Rt.
PC 20+59.39
32.68'
18 spaces @ 17' each = 305'

STRIPE / SIGNS

JM 2/07



Stripe Signs

2 of 2

3/23

36"x36"
R5-1

Do Not Enter

12"x36"
Delineator Paddle
OM-3 (w/o stripes)

24"x48"
Arrow
W1-6L

R7-8
12"x18"

26+00

22+00

BUS

BUS

BUS ONLY

Regulatory Sign
12"x18"

BUS ONLY

21+00

25+00

Do Not Enter Unless Authorized

36"

36"

20+00

Regulatory Sign
30" w. x 56" h.
White background,
Black Lettering
& border

Right Lane Vehicles with Tickets Only

All Other Vehicles Use Left Lane

18+00

17+00

16+00

PT = 15+36.43

Guide Signs
Green Background
White Lettering and Borders

78"

96"

Pedestrian Access
Terminal Building
Tickets - Parking

Ticketed Vehicles
Use Right Lane
Wrangell - Petersburg

12'

10.5'

4' min.

Concrete Base, Break-away Pole
and sign/mast arm assembly,
Station 18+00, 30' Rt.

4.5'

Ticketed Vehicles Use Right Lane

Regulatory Sign
30" w. x 26" h.
White background, Black Lettering
& border

Baggage Cart

24+00

STOP

R1-1
30"x30"

R7-8
12"x18"

23+00

R7-8
12"x18"

STRIPE SIGNS

2/07

MISCELLANEOUS

VEHICLE, CULVERTS,
CURB DRAINS

2/0 x 34/3.

VAN SPECIFICATIONS for COFFMAN

SELL PRICE: $33,790.00.
Pricing does NOT include any current manufacturer's discounts.
For further details, please contact us via sales@tescobus.com or call at 800-227-3572.

Stock No:
22818

Year:
2005

Body:
Goshen Pacer II

Chassis:
Ford

Capacity:
08 Pass & 2W/C

Engine:
5.4 Gas

Brakes:
5.4 Gas

Color:
White

Description:

Body Equipment
Vacuum Laminated Steel Cage Construction
Fully Insulated Walls & Ceiling
Aluminum Exterior Side & Rear Panels

5/8" Exterior Grade Plywood Flooring
Steel Floor Structure
Steel Wheel Wells
FMVSS Certified
76" Headroom

"More View" Right Side Cab Window
Manual Entrance Door
Entrance Door Modesty Panel
Entry Assist Handle
Smooth Gray FRP on Walls

Sea Spray Ceiling
Ribbed Rubber Aisle
Emergency Side and Rear Egress Windows
Large Upper T-Slider Windows
Wiring Harness Coded by Color, Number and Function

Rain Gutters over Windows
Steel Bumpers
Fully Undercoated
Instrument Panel Controls within Driver's Reach
Step-well Light

Rear Mud Flaps
Drive Shaft Guards
Control Panel with Circuit Breakers
Lighted Accessory Switch Panel
FRP Roof

Exterior Hooded Light at Entrance Door
Gas Strut for W/C Door
Padded Modesty Panel with Two Stanchions
Entrance Grab Rails

Rear Heater, 35,000 BTU, 2 Speed Fan
Single Wheelchair Door w/Window
International Wheel Chair Symbol - 9" x 9"
ADA Required Interior Decals
Vehicle Interlock for Wheelchair Lift - ADA

Driver Seat High Back Recliner w/Arms
Center Rear Brake Light
Painted Wheel Rims (Outside Only) - Each
Electrical Prints
"Transpec" Roof Hatch

Sure-Lok Kit w/Web Sensitive Retractors
Double BV Foldaway Seat
Regular Low Back Double Passenger Seat

Regular Low Back Single Passenger Seat
Single Hand-i Flip Seat
Braun 917 W/C Lift (per ODOT spec)
Decal Vehicle Height
Heated Exterior Mirrors

Black, Rubber, Under Seats
FRP on Ceiling
Ceiling Grab Rails, Standee Line
Exterior Convex Mirrors (5" x 8")
First Aid Kit, 5 lb. Fire Extinguisher, Flare Kit

Interior Mirror 6" X 16"
Back up alarm
Mid-ship Turn and Running Lights
Spare Tire & Wheel GC11 & Pacer II
Rear Tow Hooks

Front Mud Flaps
5/8" Marine Plywood Floor
Lock for Battery Box Door
Battery Box-Stainless Steel Tray Slide-Out
Deluxe AM/FM/CD w/4 Speakers

40,000 BTU Rear A/C
~~Step-well Light~~
Chassis Equipment
138" Wheel-base, RV Cutaway
Gross Vehicle Weight - 10,700 lbs.

5.4L V-8 engine, EFI - electronic fuel injected
Super Engine Cooling
Transmission Oil Cooler
4 Speed Automatic Transmission w/Overdrive
Power Steering

Anti-Lock Equipped Power Brakes, Front & Rear Disc
4.10 Rear Axle Ratio
LT225/75RX16E Steel Belted Radial Tires
Intermittent Wipers
Gauges: Voltmeter, Oil Pressure and Temperature
Tinted Glass, Complete

Bright Swing-Out Recreational Mirrors (7" x 10")
Deluxe Insulation Package
14,000 BTU Air Conditioner
130 AMP Alternator
Dual Heavy Duty Batteries (Primary 850 CCA, Aux. 400 CCA)

Chrome Bumper
Exterior - Bright White
~~Dual Electric Horns~~
Fuel Tank, Auxiliary Capacity, Single Tank - 35 Gallons

ADA VAN - CO #2

2/07 35/37

STORM DRAIN PIPE SUMMARY

PIPE No.	DIA. (IN.)	ENTRANCE			EXIT			LENGTH (FT.)	GRADE (%)	REMARKS
		INV. EL.	STATION	OFFSET	INV. EL.	STATION	OFFSET			
P-1	18	18.92	–	–	14.69	–	–	176	0.70	EXIT N 500704.4, E 100082.9
P-2	18	18.14	–	–	15.92	–	–	317	0.70	SEE (S-1), (S-2), (S-3) FOR LOCATIONS
P-3	18	20.04	–	–	18.14	–	–	77	2.47	SEE (S-1), (S-2), (S-3) FOR LOCATIONS
P-4	18	23.20	"L" 13+63.1	20.0' LT.	20.04			43	7.35	SEE (S-1), (S-2), (S-3) FOR LOCATIONS
P-5	12	25.20	"L" 11+71.0	20.0' LT.	24.27	12+63.0	21.0' LT.	93	1.0	
P-6	12	23.50	"L" 14+23.0	28.0' LT.	23.25	13+77.0	22.0' LT.	47	0.53	
P-7	18	25.50	"L" 18+05.0	18.0' RT.	23.80	17+95.0	44.3' LT.	63	2.7	
P-8	12	23.24	"L" 20+82.3	18.5' RT.	20.00	19+87.3	20.7' LT.	75	0.32	
P-9	12	34.38	"K" 16+24	19.5' RT.	33.24	16+78.0	19.5' RT.	53	2.15	
P-10	18	28.00	"L" 24+83.5	27.0' RT.	26.67	25+39.4	28.0' LT.	55	2.42	
P-11	12	24.33	"L" 15+33	20.5' RT.	24.10	14+66.0	20.5' RT.	65	0.36	

STORM DRAIN STRUCTURE SUMMARY

STRUCTURE No.	TYPE	FRAME OR LID	STRUCTURES STATION	STRUCTURES OFFSET	SUMP ELEV.	REMARKS
S-1	48" M.H.	FRAME EL. 20.80	–	–		N 500773.1, E 100245.3 (INCLUDE BAFFLE PLATES) FLAT HS 20 RATED FIELD INLET FRAME & GRATE
S-2	48" M.H.	FRAME EL. 22.30	–	–		N 500772.7, E 100551.8 (FIELD INLET FRAME & GRATE)
S-3	48" M.H.	FRAME EL. 24.20	–	–		N 500843.0, E 100602.0 FLAT HS 20 RATED FIELD INLET FRAME & GRATE

STORM DRAIN PIPE REMOVAL SUMMARY

PIPE No.	DIA. (IN.)	STATION	OFFSET	LENGTH (FT.)	REMARKS
1	12	"K" 16+94	14.0' LT.	48	
2	24	–	48'	48	N 500755 E 100187 (SEE SHEET E5 IN FERRY TERMINAL PROJECT No. 67844)
3	12	"L" 13+62	–	81	
4	6	"L" 13+96	21.5' LT.	41	
5	18	"L" 25+39	28.0' RT.	38	
			TOTAL:	256	

SIGN SUMMARY

SIGN NO.	STATION	OFFSET L	OFFSET R	TYPE	LEGEND	FACING	WIDTH (IN)	HEIGHT (IN)	AREA (SQ FT)	POST SIZE	POST TYPE	REMARKS
1	"L" 27+50	28		I-100	FERRY SYMBOL	WB	24	24	4.00	2"	PST	
2	"L" 27+50	28			ARROW UP	WB	6	24	1.00			UNDER SIGN 1
3	"L" 24+50	28		R2-1	SPEED LIMIT 25	WB	24	30	5.00	2"	PST	
4	"L" 20+50		24	R1-1	STOP	NB	36	36	9.00	2"	PST	
5	"L" 17+85		24	R1-1	STOP	NB	36	36	9.00	2"	PST	
6	"L" 17+40	28		R1-1	STOP	SB	36	36	9.00	2"	PST	
7	"L" 13+60	28		R1-1	STOP	SB	36	36	9.00	2"	PST	
8	"L" 13+50	24		I-100	FERRY SYMBOL	WB	24	24	4.00	2"	PST	
9	"L" 13+50	24			ARROW RIGHT	WB	24	6	1.00			UNDER SIGN 8
10	"L" 11+80	28		R1-1	STOP	SB	36	36	9.00	2"	PST	
11	"L" 11+80	28		D3-1	KODIAK DR	EB/WB	42	8	2.33			ABOVE SIGN 10
12	"L" 11+80	28		D3-1	LOGGER'S LN	NB/SB	48	8	2.67			ABOVE SIGN 10
13	"K" 18+00	24		I-100	FERRY SYMBOL	NB	24	24	4.00	2"	PST	
14	"K" 18+00	24			ARROW LEFT	NB	24	6	1.00			UNDER SIGN 13
								TOTAL:	70			

MANHOLE ADJUSTMENT SUMMARY

STATION	OFFSET	REMARKS
"L" 14+88.5	9.9' RT.	
"L" 17+18.5	12.4' RT.	
"L" 22+59.0	16.0' RT.	
"L" 18+75.0	12.3' RT.	

CURB CUT SUMMARY

STATION	WIDTH (FT.)	REMARKS
"L" 14+94 LT	28	
"L" 19+04.5 LT	32	
"L" 21+31.5 LT	16	
"L" 22+03.8 LT	16	
"L" 25+24 LT	28	

DRIVEWAY SUMMARY

STATION	WIDTH (FT.)	REMARKS
"K" 17+50.0 LT	23.9	ALL RADIUSES ARE TO EDGE OF ASPHALT
"K" 18+51.0 RT	28.9	
"K" 13+97.2 LT	24	
"L" 17+50.0 RT	21	
"L" 17+70.3 LT	28	
"L" 20+26.9 RT	25	
"L" 21+78.7 RT	12	
"L" 24+95.3 RT	14	
"L" 25+17.3 RT	8	
"L" 25+66.6 RT	8	
"L" 15+00.0 LT	26	

VALVE BOX ADJUSTMENT SUMMARY

STATION	OFFSET	REMARKS
"L" 17+46.6	21.5' RT.	
"L" 17+68	5'.0 LT.	
"L" 20+30	5'.2 LT.	
"L" 20+46.3	11.0' LT.	
"L" 25+30.2	8.0' LT.	
"L" 25+36.1	8.2' LT.	

DRIVEWAY RADIUS DATA

STATION	OFFSET	REMARKS
"K" 16+55.68	53.00 RT	R=40'
"K" 17+15.19	38.00 LT	R=25'
"K" 17+85.19	38.00 LT	R=25'
"K" 17+79.68	53.00 RT	R=50'
"K" 18+12.83	38.00 RT	R=25'
"K" 18+88.83	38.00 RT	R=25'
"K" 19+34.45	53.00 RT	R=40'
"K" 19+46.95	53.00 LT	R=40'
"L" 13+57.41	33.00 LT	R=20'
"L" 14+27.70	34.00 LT	R=20'
"L" 14+57.00	43.00 RT	R=30'
"L" 15+43.00	43.00 RT	R=30'
"L" 17+11.01	38.00 RT	R=25'
"L" 17+93.96	43.00 RT	R=30'
"L" 17+16.25	54.00 LT	R=40'
"L" 18+24.29	54.00 LT	R=40'
"L" 19+87.37	39.00 RT	R=26'
"L" 20+62.37	39.00 RT	R=25'
"L" 21+57.55	34.00 RT	R=21'
"L" 22+06.45	29.00 RT	R=16'
"L" 24+74.65	29.00 RT	R=16'
"L" 25+54.48	34.00 RT	R=21'
"L" 25+94.82	23.39 RT	R=10'

PATH: O:\Part\67667\Planset\Design Data\E-D-Est
PLOT: 15/JUN/05 09:07AM
PLOTSCALE 1=1(F) OR HSPACE 1=1(F)
TAB: D1

ADDENDUM NUMBER
ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION

POW-COFFMAN COVE
FERRY TERMINAL TO DOG CREEK BRIDGE
AK PFH 44-1(5) ~ 67667

MISCELLANEOUS SUMMARIES

DESIGNED BY: D. Blackburn

STATE OF ALASKA 49th Doug K. Bolton 12-1001 REGISTERED ENGINEER

DRAWN BY: K. Miller
CHECKED BY: DR DODGE

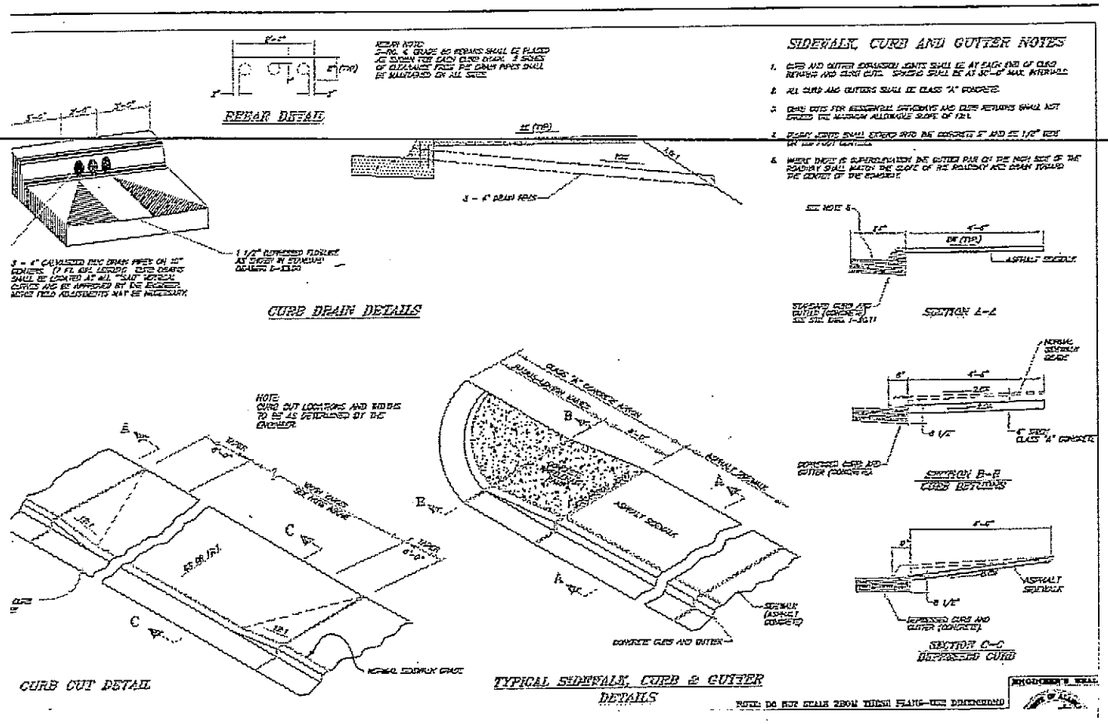
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
SOUTHEAST REGION DESIGN & ENGINEERING SERVICES DIVISION
POW-COFFMAN COVE FERRY TERMINAL TO DOG CREEK BRIDGE

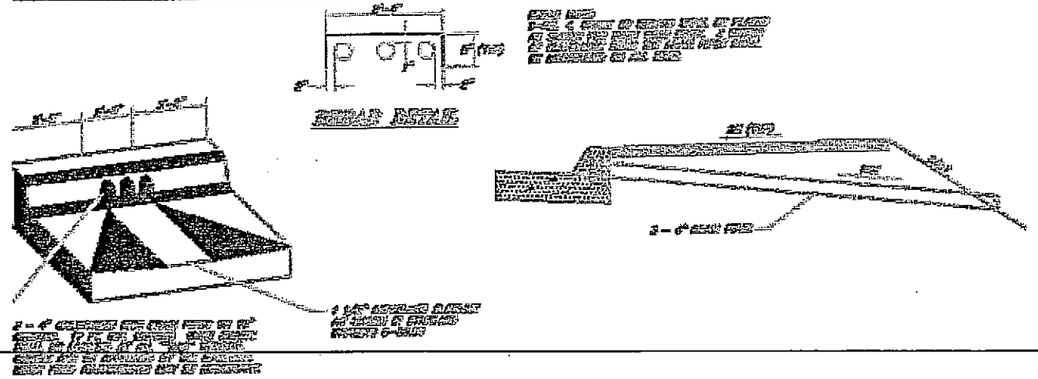
MISCELLANEOUS SUMMARIES

PROJECT DESIGNATION NUMBER	
AK PFH 44-1(5) – 67667	
STATE	YEAR
ALASKA	2005
SHEET NUMBER	TOTAL SHEETS
D1	22

Replaces Table in Planset C - Sheet D1

2107 36/37


REBAR DETAIL
REBAR NOTE:
2-#5, 4' GRADE 60 REBARS SHALL BE PLACED AT EACH END OF CURB RETURN AND CURB CUTS. SPACING SHALL BE AT 30'-0" MAX. INTERVALS.
3 - 4" DRAIN HOLES
1 1/2" DEPRESSED FLOWLINE AT CURB IN ROADWAY (SEE DETAIL 2-D510)
3 - 4" GALVANIZED PIPE DRAIN HOLES ON 10' CENTERS. (1 FT. DIA. LOCATE EACH DRAIN SHALL BE CENTER AT #1 "SAG" VERTICAL CURVE AND BE APPROVED BY THE ENGINEER. MINOR FIELD ADJUSTMENTS MAY BE NECESSARY.
CURB DRAIN DETAILS
SIDEWALK, CURB AND GUTTER NOTES
1. CURB AND GUTTER EXPANSION JOINTS SHALL BE AT EACH END OF CURB RETURNS AND CURB CUTS. SPACING SHALL BE AT 30'-0" MAX. INTERVALS.
2. ALL CURB AND GUTTERS SHALL BE CLASS "A" CONCRETE.
3. CURB CUTS FOR RESIDENTIAL DRIVEWAYS AND CURB RETURNS SHALL NOT EXCEED THE MAXIMUM ALLOWABLE SLOPE OF 12%.
4. EXPANSION JOINTS SHALL EXTEND INTO THE CONCRETE 1" AND BE 1/2" WIDE OR AS PER PLANS.
5. WHERE THERE IS SUPERELEVATION THE GUTTER PAN ON THE HIGH SIDE OF THE ROADWAY SHALL MATCH THE SLOPE OF THE PAVEMENT AND DRAIN TOWARD THE CENTER OF THE ROADWAY.
SEE NOTE 5
STANDARD CURB AND GUTTER (CONCRETE) SEE STD. DWG. 2-D511
ASPHALT SIDEWALK
SECTION A-A
NORMAL SIDEWALK GRADE
EXPOSED CURB AND GUTTER (CONCRETE)
SECTION B-B
CURB RETURNS
ASPHALT SIDEWALK
DEPRESSED CURB AND GUTTER (CONCRETE)
SECTION C-C
DEPRESSED CURB
NOTE:
CURB CUT LOCATIONS AND SIDES TO BE AS DETERMINED BY THE ENGINEER
CURB CUT DETAIL
CURB & GUTTER (TYP.)
EXPANSION JOINT
ASPHALT SIDEWALK
SIDEWALK (ASPHALT CONCRETE)
CONCRETE CURB AND GUTTER
TYPICAL SIDEWALK, CURB & GUTTER DETAILS
NOTE: DO NOT SCALE PRINT WHEN FRAME HAS BEEN REDUCED


REBAR DETAIL
CURB DRAIN DETAILS

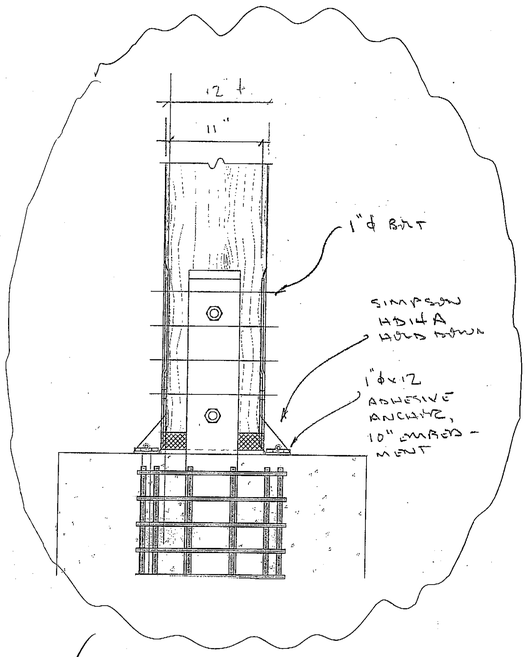
✓ gm 2/07

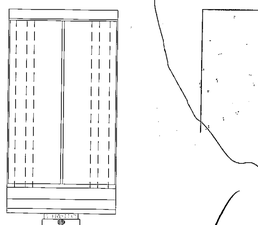
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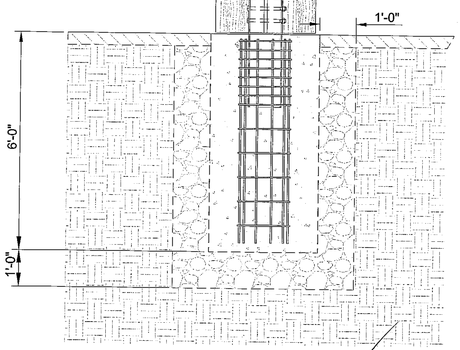
PLANSET H

GENERAL NOTES:

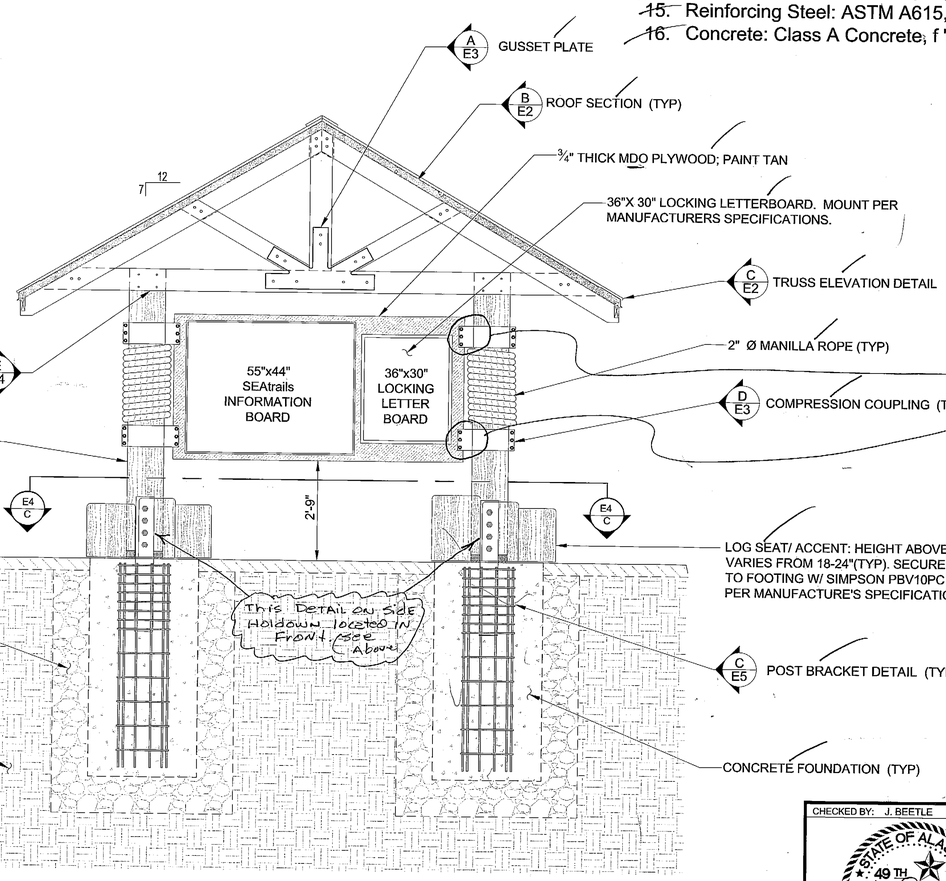
1. All timber members to be Alaskan Yellow Cedar, select structural.
2. All timber dimensions shown are nominal dimensions.
3. Coat all timber surfaces with commercially available solvent-borne, oil-based water repellent preservative in accordance with the manufacturer's recommendations.
4. Timber posts can be peeled or turned.
5. Coat bottom of support posts with pitch/tar.
6. ~~Standing seam metal roof~~ Shingles (Cedar) and shingles: color to match adjacent AMHS facility roof.
7. Steel plates, angles and gussets: ASTM A36.
8. Steel plates to be galvanized in accordanace with ASTM 123.
9. Welding to be in accordance with AWS D1.1:2006.
10. Bolts: ASTM A307 Gr. A, UNC, galvanized.
11. Install bolts in accordance with NDS specifications.
12. Washers: ASTM F436 galvanized, (2) per bolt.
13. Nuts: ASTM A563, galvanized.
14. Fabricate compression coupling from standard weight 12 inch diameter pipe.
15. Reinforcing Steel: ASTM A615, Gr. 60.
16. Concrete: Class A Concrete, f 'c = 3,000 psi minimum.







SIDE ELEVATION



FRONT ELEVATION

PLANSET H

A E1 **OUTDOOR COVERED KIOSK ELEVATION**

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

CHECKED BY: J. BEETLE

STATE OF ALASKA
49 TH
A.T. OYDNA
08 FEB 05
No. 10825
REGISTERED PROFESSIONAL ENGINEER

DESIGNED BY: A. OYDNA

DRAWN BY: R. GRANTHAM

PATH: Q:\JNU\68079\DR\RG DWGS\SE ALASKA TRAIL SYSTEM.DWG

TAB: E1 Friday, July 29, 2005 11:27:44 AM AOYDNA

REVISIONS

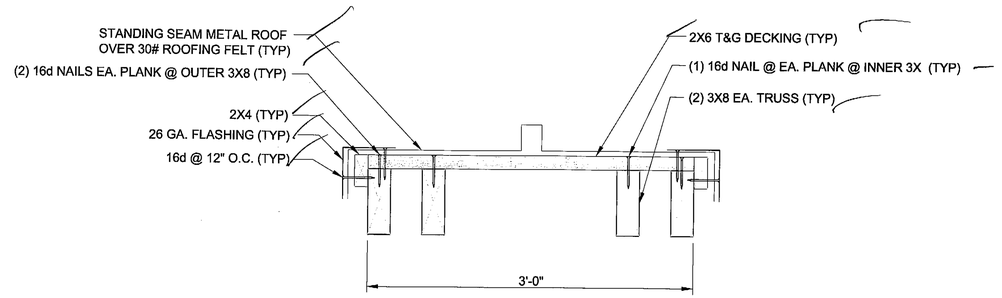
NO.	DATE	DESCRIPTION

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
DESIGN & ENGINEERING SERVICES DIVISION - SOUTHEAST REGION

JNU - AMHS PORTAL PROTOTYPE
PROJECT NO. 68079

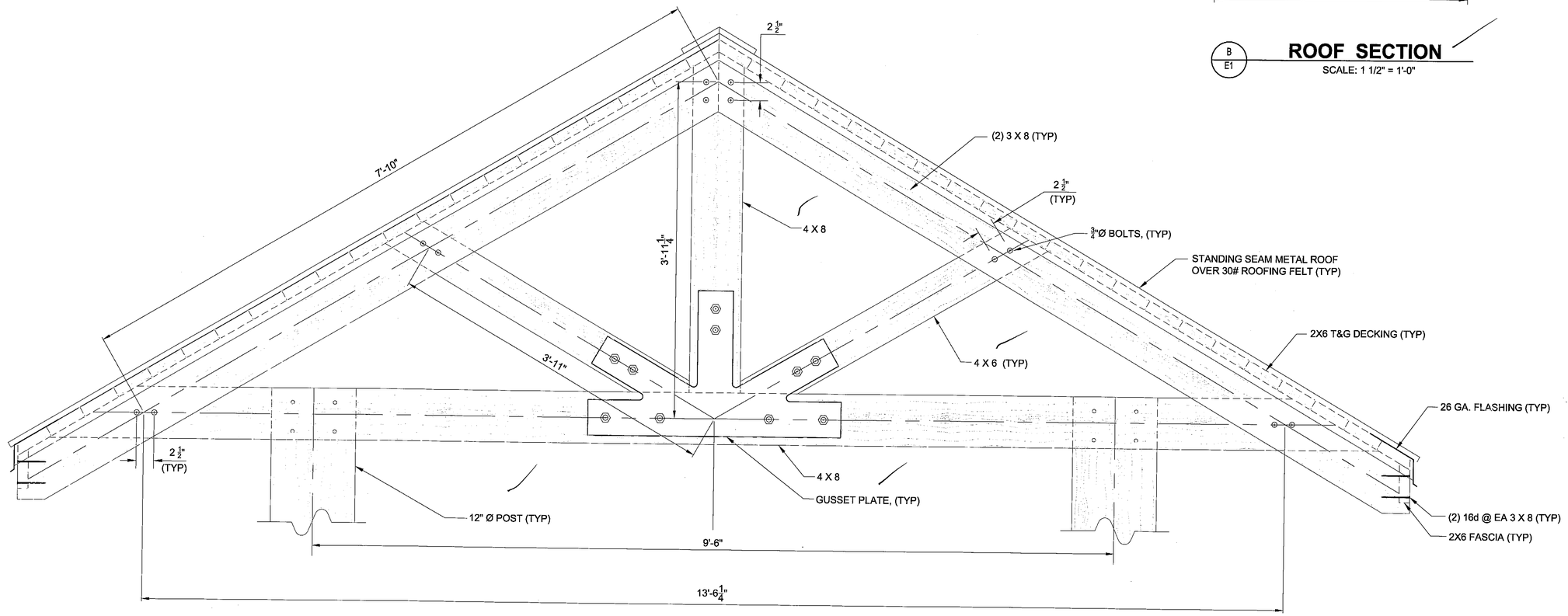
ELEVATION

PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
68079	2005	E1	5



B / E1 **ROOF SECTION**

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



C / E1 **TRUSS ELEVATION DETAIL**

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

PLAN SET "H"

CHECKED BY: J. BEETLE

STATE OF ALASKA
49 TH
A.T. OYDNA
08 Feb 06
No. 10825
REGISTERED PROFESSIONAL ENGINEER

DESIGNED BY: A. OYDNA

DRAWN BY: R. GRANTHAM

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES
DESIGN & ENGINEERING SERVICES DIVISION - SOUTHEAST REGION

JNU - AMHS PORTAL PROTOTYPE
PROJECT NO. 68079

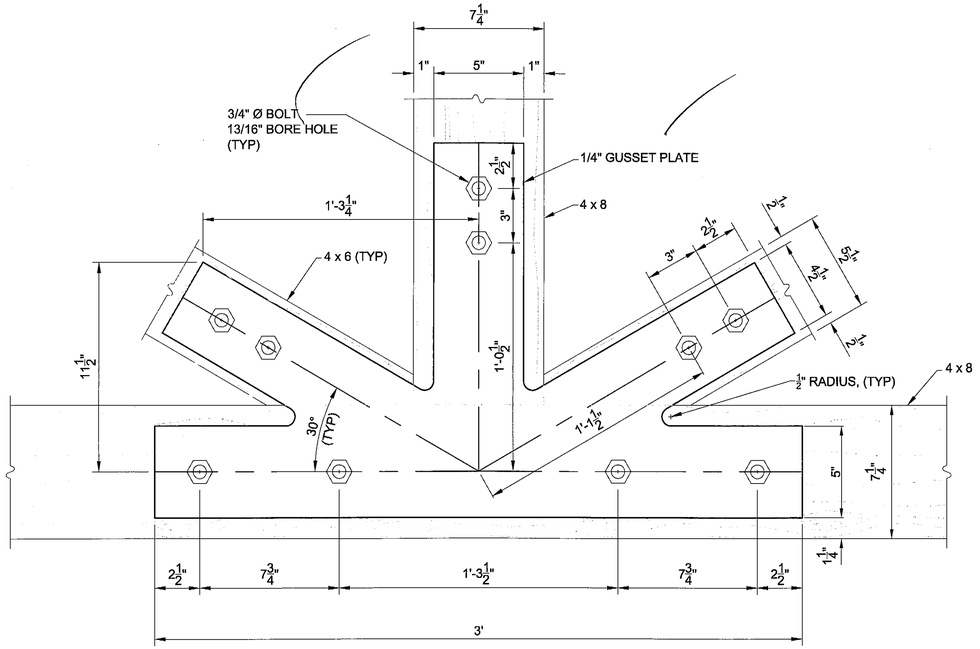
ROOF / TRUSS

PATH: Q:\JNU\68079\DR\RG DWGS\SE ALASKA TRAIL SYSTEM.DWG

TAB: E2 Friday, July 29, 2005 11:27:44 AM OYDNA, ARNE

REVISIONS NO.	DATE	DESCRIPTION
1	2/07	

PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEET
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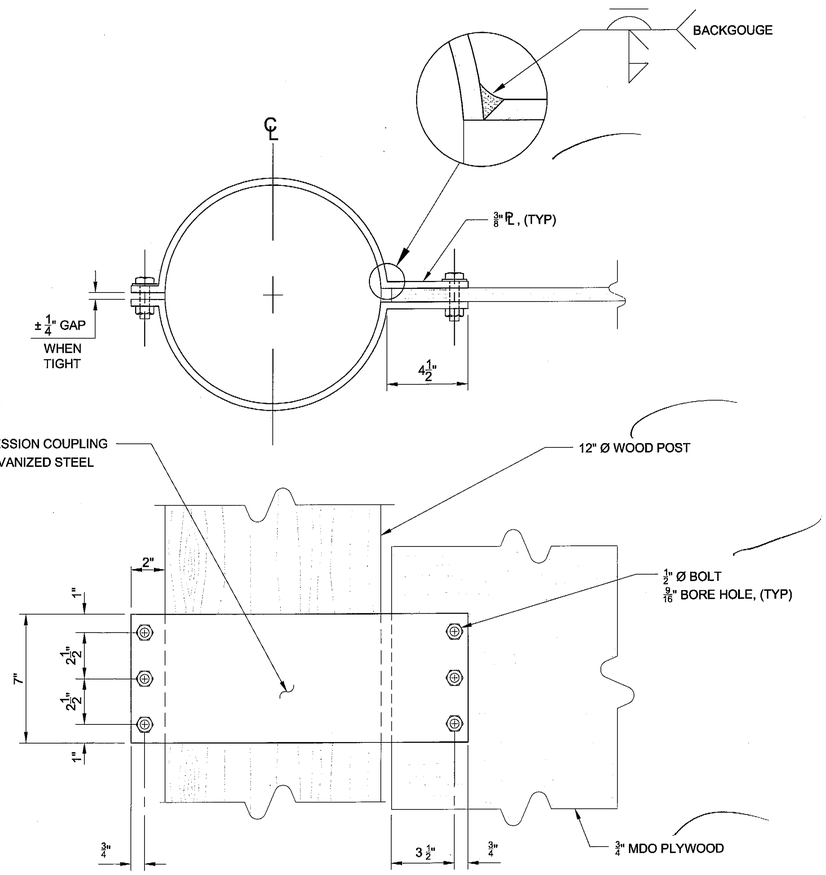
FRONT VIEW

A / E1

GUSSET PLATE DETAIL

SCALE: 3" = 1'-0"

NOTE: GUSSET PLATES ON NEAR & FAR SIDES, EACH TRUSS.



D / E1

COMPRESSION COUPLING

SCALE: 3" = 1'-0"

PLANSET "H"

CHECKED BY: J. BEETLE

STATE OF ALASKA
49TH
A. P. OYDNA
08 FEB 06
No. 10825
REGISTERED PROFESSIONAL ENGINEER

DESIGNED BY: A. OYDNA

DRAWN BY: R. GRANTHAM

PATH: Q:\JNU\68079\DR\RG DWGS\SE ALASKA TRAIL SYSTEM.DWG

TAB: E3 Friday, July 29, 2005 11:27:44 AM AOYDNA

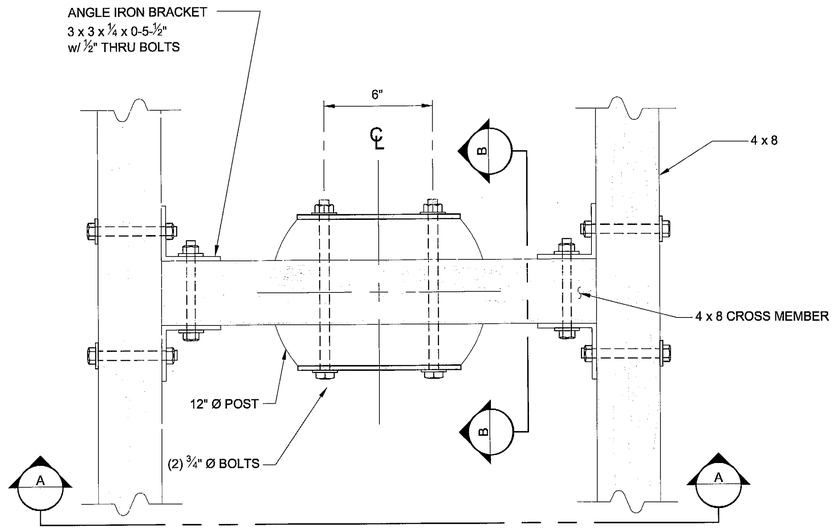
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES
DESIGN & ENGINEERING SERVICES DIVISION - SOUTHEAST REGION

JNU - AMHS PORTAL PROTOTYPE
PROJECT NO. 68079

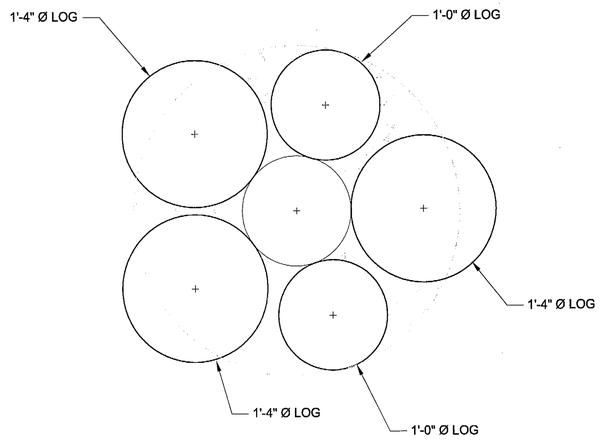
GUSSET PLATE / COMPRESSION COUPLING

REVISIONS NO.	DATE	DESCRIPTION
1	2/07	

PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
68079	2005	E3	5

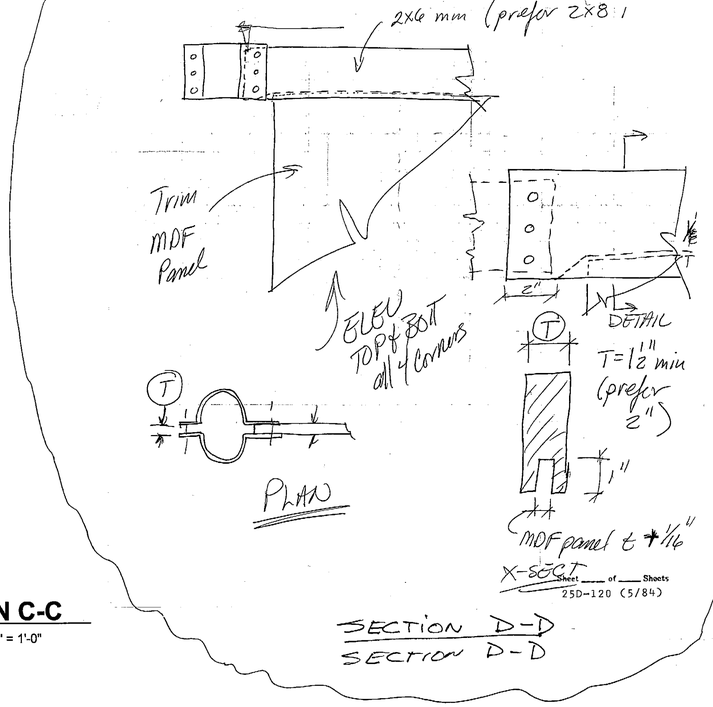


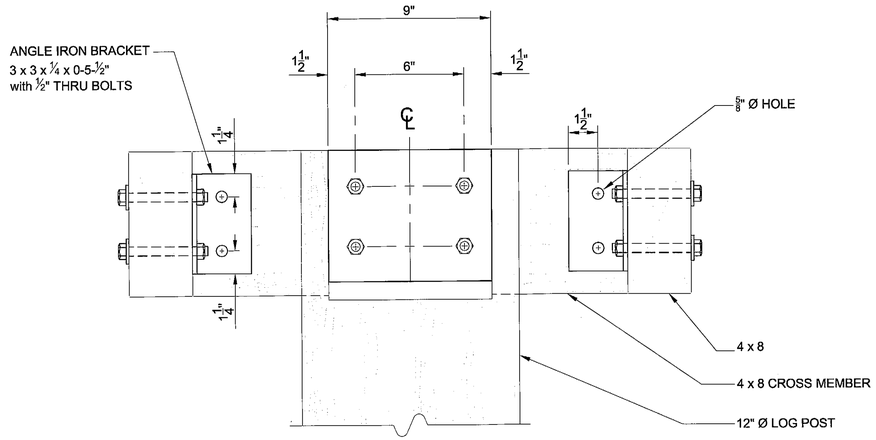
PLAN VIEW
POST/ TRUSS CONNECTION PLAN
SCALE: 3" = 1'-0"



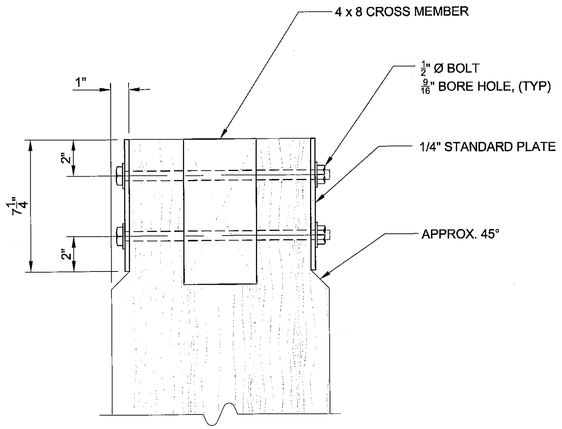
SECTION C-C
SCALE: 1 1/2" = 1'-0"

① use Roughcut yellow Cedar





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



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

PLANSET "H"

CHECKED BY: J. BEETLE
DESIGNED BY: A. OYDNA
DRAWN BY: R. GRANTHAM
PATH: Q:\JNU\68079\DR\RG DWGS\SE ALASKA TRAIL SYSTEM.DWG
TAB: E4 Friday, July 29, 2005 11:27:44 AM OYDNA, ARNE

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
DESIGN & ENGINEERING SERVICES DIVISION - SOUTHEAST REGION

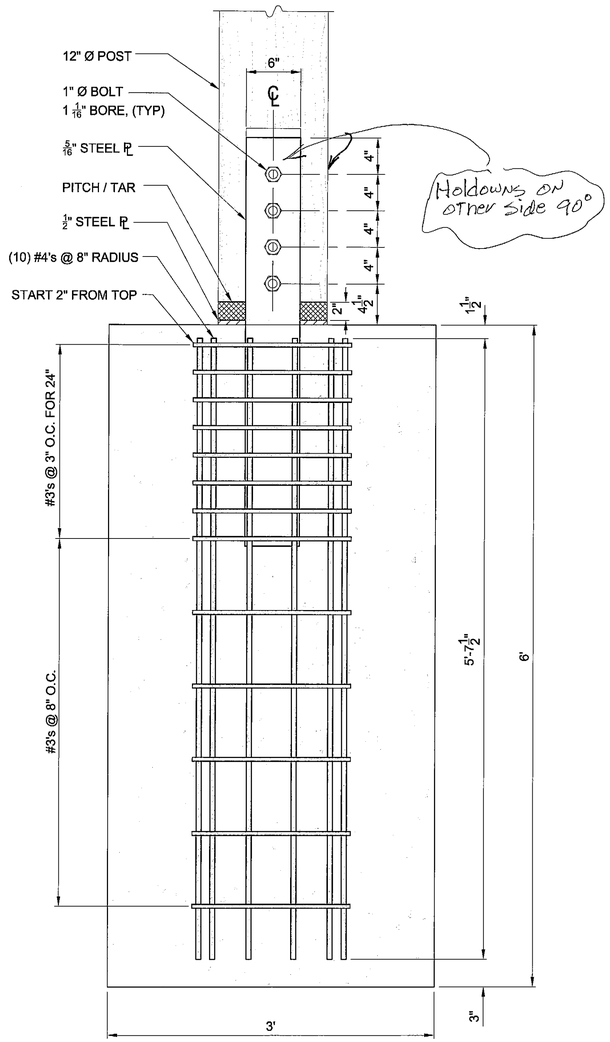
JNU - AMHS PORTAL PROTOTYPE
PROJECT NO. 68079

POST / TRUSS CONNECTION

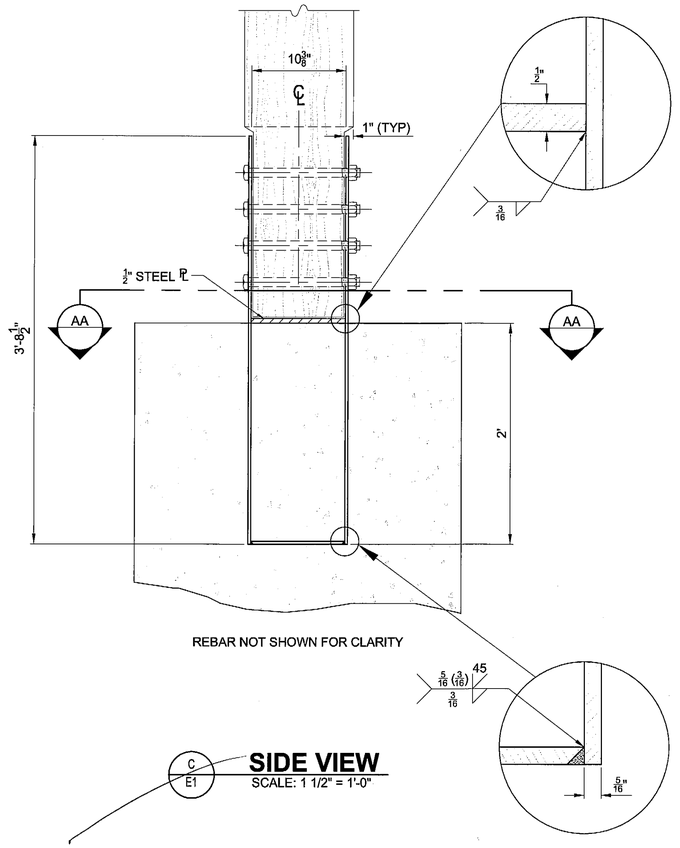
REVISIONS NO.	DATE	DESCRIPTION

PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
68079	2005	E4	5

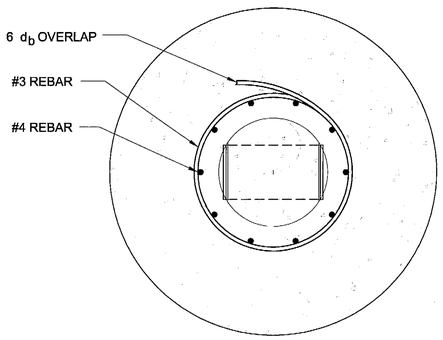
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25D-120 (5/84)



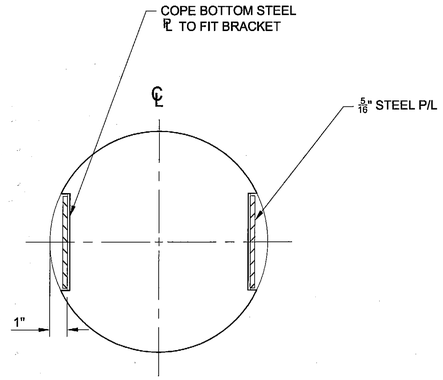
C / E1 **FRONT VIEW**
SCALE: 1 1/2" = 1'-0"



C / E1 **SIDE VIEW**
SCALE: 1 1/2" = 1'-0"



C / E1 **TOP VIEW**
SCALE: 1 1/2" = 1'-0"



REBAR NOT SHOWN FOR CLARITY

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

CHECKED BY: J. BEETLE

STATE OF ALASKA
49 TH
A.T. OYDNA
08 FEB 06
No. 10825
REGISTERED PROFESSIONAL ENGINEER

DESIGNED BY: A. OYDNA
DRAWN BY: R. GRANTHAM

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES
DESIGN & ENGINEERING SERVICES DIVISION - SOUTHEAST REGION

JNU - AMHS PORTAL PROTOTYPE
PROJECT NO. 68079

POST BRACKET DETAIL

PATH: Q:\JNU\68079\DR\RG DWGS\SE ALASKA TRAIL SYSTEM.DWG
TAB: E5 Friday, July 29, 2005 11:27:44 AM AOYDNA

REVISIONS NO.	DATE	DESCRIPTION

PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
68079	2005	E5	5

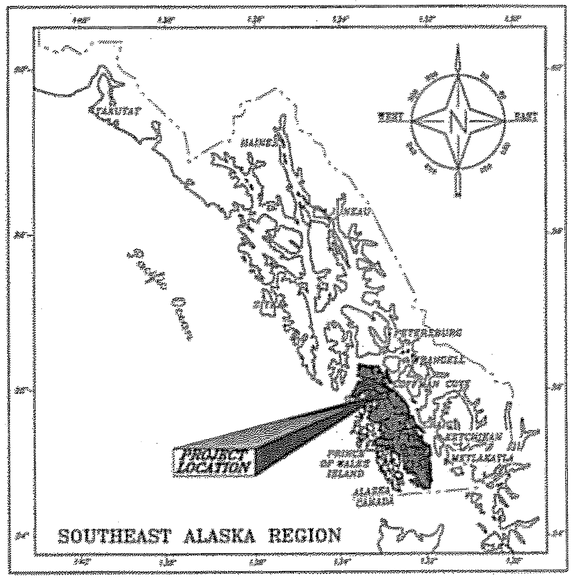
AS-BUILT PLANS

DESIGNED BY
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES
SOUTHEAST REGION

FOR THE
City of Coffman Cove

A PROJECT AT
COFFMAN COVE, ALASKA

PROJECT SUMMARY
COFFMAN COVE FERRY TERMINAL & ROAD RECONSTRUCTION



VICINITY MAP

THE FOLLOWING STANDARD DRAWINGS APPLY TO THESE PROJECTS:

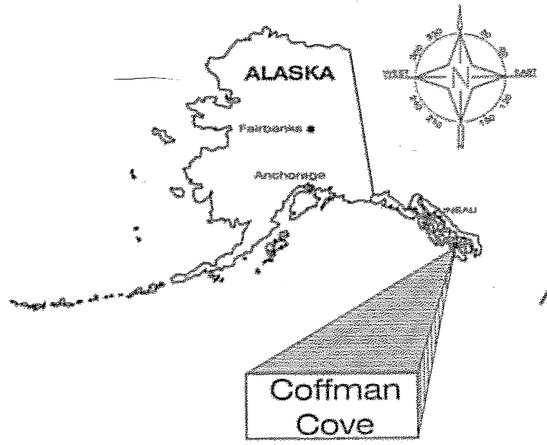
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	D-20.03	F-01.01	I-21.01	S-01.00	U-03.00
	D-22.01	F-03.01	I-22.01	S-05.01	
	D-23.01	G-46.10	I-81.00	S-20.10	
	D-24.00			S-30.03	
	D-26.02				
	D-35.00				

Project Consists of:

Coffman Cove Ferry Terminal
(Marine Facilities, Uplands, Terminal Building & Electrical)
Project No. 67844 / STP-0003(66)
- Planset A - Marine Facilities
- Planset B - Ferry Terminal Uplands
- Planset D - Upland Sewer & Water Utilities
- Planset E - Ferry Terminal Electrical
- Planset F - Passenger Terminal & Maintenance Buildings
  Planset G - Midden, Security, TRAFFIC CHANGES

Ferry Terminal to Dog Creek Bridge Road Reconstruction
Project No. 67667 / AK PFH 44-1(5)
- Planset C - Ferry Terminal to Dog Creek Bridge

PROJECT NO. 68079/68114
Planset H - KIOSK -



LOCATION MAP

PROJECT INDEX

PROJECT SUMMARY
Title, Project Overview, Estimate of Quantities & Survey Control - 6 Sheets
PLANSETS
Planset A- Marine Facilities - 99 Sheets
Planset B- Ferry Terminal Uplands - 27 Sheets
Planset C- Ferry Terminal to Dog Creek Bridge Road Reconstruction - 22 Sheets
Planset D- Upland Sewer & Water Utilities - 13 Sheets
Planset E- Ferry Terminal Electrical - 20 Sheets
Planset G- Midden, Security, TRAFFIC CHANGES
Planset F- Passenger Terminal & Maintenance Buildings - 36 Sheets
PLANSET H- KIOSK

AS-BUILTS
CONTRACTOR - SE ROAD BUILDERS
PE - GREG BROWNING
BEGIN - 6/2005
END - 8/2006

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND
PUBLIC FACILITIES
SOUTHEAST REGION

APPROVED Jack O. Bubble Date 3/16/05
Regional Preconstruction Engineer
Patrick J. Kemp

APPROVED Gary L. Paxton Date 3/16/05
Director, S.E. Region
Gary L. Paxton

PROJECT NUMBER: 67844/67667
DATE: March, 2005
SHEET 1 OF 6

3/15/05

VMB 2/07

END ROAD
RECONSTRUCTION PROJECT

END FERRY TERMINAL PROJECT
BEGIN ROAD RECONSTRUCTION PROJECT
SEE PLANSET C

NEW FERRY TERMINAL UPLANDS
SEE PLANSETS B, D, E & F

NEW FERRY TERMINAL
MARINE FACILITIES
SEE PLANSET A

MERMAID COURT
COHO DRIVE
HALIBUT WAY
HARPOON WAY
ZANDAMAR DRIVE
FARMAKIS AVE.
NORTH FOREST ROAD
KODIAK DRIVE
SEA OTTER DRIVE
WALRUS PLACE
NARWHAL COURT
NEW DOG ROAD
LABRADOR DRIVE
PORPOISE COURT
SEAL POINT BLVD.
SEA LION DRIVE
USFS 3030
ACCESS ROAD
CREEK

RV Park
School (Tr SCH)
CITY OFFICE
EXISTING ROCK STOCKPILE
SITE 2 ROCK DISPOSAL
SITE 1 ROCK DISPOSAL
SITE 3 - APPROXIMATE LIMITS OF APPROVED AREA FOR ROCK DISPOSAL AND CONTRACTOR STAGING
TIDELANDS FILL DISPOSAL SITES
LAUNCH RAMP
BOAT HARBOR
EXISTING SEAPLANE FLOAT
FUTURE SEAPLANE FLOAT
EXISTING LOG TRANSFER BULKHEAD
EXISTING LOG STORAGE AREA
APPROXIMATE LOCATION OF CITY WASTE DISPOSAL SITE

Block 16, ASLS 86-163
Block 17, ASLS 86-163
Block 10, ASLS 86-163
Block B, ASLS 86-163
Block 9, ASLS 86-163
Block 6, ASLS 86-163

Tract C, ASLS 96-61
Tract B, ASLS 86-61
ASLS 91-213
ASLS 96-80
ASLS 96-61

TRACT A
TRACT A-1
TRACT B
TRACT C
TRACT D
TRACT E
TRACT F
TRACT CC-1
TRACT CC-2
TRACT CC-3
TRACT CC-4
TRACT CC-5
TRACT CC-6
TRACT CC-7
TRACT CC-8
TRACT CC-9

ATS 1651
TRACT A ATS 1590
TRACT B ATS 159
ATS 1305
ATS 1476

COFFMAN COVE

U.S.S. 10099 U.S.F.S.

0 100 200 400 600
APPROXIMATE SCALE IN FEET

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ADDENDUM NUMBER

ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION

Coffman Cove Ferry Terminal & Road Reconstruction
Project No. 67844 / 67667

PROJECT OVERVIEW, STAGING AREA & DISPOSAL SITES MAP

DESIGNED BY: K. Miller

STATE OF ALASKA
19th
Kirk D. Miller
CE-8550
REGISTERED PROFESSIONAL ENGINEER
3/15/05

CHECKED BY: J. Peterson
DRAWN/REVISED BY: KDM/TH

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

Coffman Cove Ferry Terminal & Road Reconstruction

Project Overview

PROJECT DESIGNATION NUMBER	
67844 / 67667	
STATE	YEAR
ALASKA	2005
SHEET NUMBER	TOTAL SHEETS
M1	6

✓ GMB 2/07

SUMMARY OF QUANTITIES BY PROJECT

Item No	Pay Item	Pay Unit	Project 67884 Ferry Terminal Estimated Quantity	Project 67667 Road Reconstruction Estimated Quantity	Total Estimated Quantity
201 (3B)	Clearing And Grubbing	Lump Sum	All Required	All Required	All Required
202 (4)	Removal of Culvert Pipe	Linear Foot		~~256~~ 199	~~256~~ 199
203 (03)	Unclassified Excavation DELETE - CO NO 1	~~Cubic Yard~~	~~117,700~~	~~400~~	~~118,100~~
203 (10)	Controlled Blasting DELETE - CO NO 1	~~Linear Feet~~	~~24,000~~		~~24,000~~
203 (12)	Drain Holes	Linear Foot	~~2,250~~ 960		~~2,250~~ 960
203 (13)	Stabilization - Rock Bolt DELETE - CO NO 1	~~Each~~	~~10~~		~~10~~
203 (19)	Trench Blasting for Sewer/Water Utilities DELETE CO NO 1	~~Lineal Feet~~	~~1,250~~		~~1,250~~
203 (20)	Trench Blasting for Electrical Utilities DELETE CO NO 1	~~Linear Feet~~	~~1,650~~		~~1,650~~
203 (21)	Blasting for Utility & Light Pole Installation DELETE CO NO 1	~~Each~~	~~15~~		~~15~~
203 (22)	UNCLASSIFIED EXCAVATION/EARTHWORK; DRAINAGE MODIFICATIONS - CO NO.1	LUMP SUM	ALL REQUIRED	ALL REQUIRED	ALL REQUIRED
304 (2)	Subbase, Grading C DELETE CO NO 1	~~Cubic Yard~~	~~8,900~~	~~2,800~~	~~11,700~~
401 (1)	Asphalt Concrete, Type II, Class B	Ton	~~2,100~~ 1990	~~1,200~~ 1077.62	~~3,300~~ 2094.62
401 (2)	Asphalt Cement, Grade PG 58-28	Ton	~~126~~ 131.340	~~37~~ 72.295	~~198~~ 203.585
401 (9)	Asphalt Price Adjustment - CO NO 6	Lump Sum	ALL REQUIRED	ALL REQUIRED	ALL REQUIRED
501 (9)	Concrete Abutment for Steel Trestle	Lump Sum	All Required		All Required
504 (01)	Steel Approach Dock	Lump Sum	All Required		All Required
504 (02)	Steel Transfer Bridge	Lump Sum	All Required		All Required
504 (03)	Steel Bridge Float System	Lump Sum	All Required		All Required
504 (04)	Float Platforms - Pedestrian Platform & Intermediate Ramp	Lump Sum	All Required		All Required
504 (05)	Vehicle Apron & Lift System	Lump Sum	All Required		All Required
504 (06)	Bridge Float Fenders & Pile Restraint Collars	Lump Sum	All Required		All Required
504 (07)	4-Pile Bridge Float Restraint Dolphin Cap	Each	2		2
504 (08)	Floating Mooring Dolphin Pile Cap & Lower Brace (S1-S4)	Each	4		4
504 (09)	Trestle Support Pile Cap & Bracing	Lump Sum	All Required		All Required
504 (10)	7.5' x 51' Steel Trestle	Lump Sum	All Required		All Required
504 (11)	7.5' x 105' Aluminum Gangway	Lump Sum	All Required		All Required
504 (12)	Steel Modifications - CO 3	Lump Sum	All Required		All Required
505 (01)	30" Dia. x 1/2" wall pipe piles, furnished	Lineal Foot	1,014		1,014
505 (02)	30" dia. x 1/2" wall pipe piles, driven	Each	8		8
505 (03)	24" dia. X 3/4" wall pipe piles, furnished	Lineal Foot	544		544
505 (04)	24" Dia. X 3/4" wall pipe piles, driven	Each	4		4
505 (05)	24" dia. X 1/2" wall pipe piles, furnished	Lineal Foot	1,668		1,668
505 (06)	24" Dia. X 1/2" wall pipe piles, driven	Each	14		14
505 (07)	20" dia. x 1/2" wall Pipe Piles, Furnished	Lineal Foot	1,190		1,190
505 (08)	20" dia. x 1/2" Wall Pipe Piles, Driven	Each	8		8
505 (09)	18" dia. x 1/2" Wall Pipe Piles, Furnished	Lineal Foot	2,118		2,118
505 (10)	18" dia. x 1/2" Wall Pipe Piles, Driven	Each	20		20
505 (11)	12.75" dia. x 1/2" Wall Pipe Piles, Furnished	Lineal Foot	436		436
505 (12)	12.75" dia. x 1/2" Wall Pipe Piles, Driven	Each	4		4
505 (13)	100 lb Anode	Each	~~28~~ 28		~~28~~ 28
520 (1)	Install State Furnished Floating Rubber Fender & HDPE Riser	Each	4		4
520 (2)	New Steel Mooring Crown	Each	5		5
603(21-12)	12 Inch Corrugated Polyethylene Pipe CO NO.1	Linear Foot	240 (CO NO.1)	~~268~~ 524	~~268~~ 524+240(CONO.1)= 764
603(21-18)	18 Inch Corrugated Polyethylene Pipe	Linear Foot	~~32~~ 165	~~685~~ 683	~~717~~ 848
603(21-24)	24 Inch Corrugated Polyethylene Pipe CO NO.1	Linear Foot	~~156~~ 134	124 (CO NO.1)	~~156~~ 134+124(CONO.1)= 258
604 (1)	Storm Sewer Manhole CO NO.1	Each	1	~~2~~ 3	~~3~~ 4
604 (3)	Adjust Manhole	Each		~~4~~ 5	~~4~~ 5
604 (5)	Inlet, Type A CO NO.1	Each	~~1~~ 2	1	~~2~~ 3
604 (8)	CURB DRAINS - CO NO.1	EACH	0	1	1
607 (3-4)	Chain Link Fence, 4' High Delete CO NO.1	~~Linear Feet~~	~~1,490~~		~~1,490~~
607 (3-8)	Chain-Link Fence, 8' High Delete CO NO.1	~~Linear Feet~~	~~113~~		~~113~~
607 (6)	Walk Gate Delete CO NO.1	~~Each~~	~~1~~		~~1~~
607 (7)	16 Ft Slide Gate CO NO.1	Each	~~2~~ 1		~~2~~ 1
607 (8)	22 Ft Double Swing Gate	Each	1		1
607 (03-8A)	CHAIN LINK FENCE (8'HIGH) CO NO.1	L.F.	624		624
608 (1a)	Concrete Sidewalk, 4 inch thick CO NO.1	Square Yard	~~556~~ 1435.90	~~657~~ 760.60	~~1,213~~ 2196.50
608 (6)	Curb Ramp	Each	~~15~~ 7	~~19~~ 4	~~34~~ 11
609 (2)	Curb And Gutter, Type 1 CO NO.1	Linear Foot	~~768~~ 1962	~~1,200~~ 1386	~~1,968~~ 3348
609 (3)	Backing Curb	Linear Foot	~~78~~ 0	~~40~~ 0	~~118~~ 0
607 (9)	16' Slide Gate w/ GATE OPENER CO NO.1	EACH	2		2
611 (1-2)	Riprap, Class II Delete CO NO.1	Cubic Yard	~~328~~		~~328~~
611 (1-3)	Riprap, Class III Delete CO NO.1	Cubic Yard	~~5,640~~		~~5,640~~
614 (1)	Concrete Barrier Delete CO NO.1	Linear Foot	~~360~~		~~360~~
615 (1)	Standard Signs CO NO 1	Square Foot	~~12~~ 95.0	~~78~~ 70.1	~~82~~ 165.10
615 (6)	MARINE SIGNS CO NO 5	Lump Sum	ALL REQUIRED		ALL REQUIRED
615 (7)	Sign Pole w/ Mast Arm CO NO.1	Lump Sum	ALL REQUIRED		ALL REQUIRED

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ADDENDUM NUMBER

ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION

Coffman Cove Ferry Terminal & Road Reconstruction
Project No. 67844 / 67667

ESTIMATE OF QUANTITIES - SHT 1

DESIGNED BY: K. Miller

STATE OF ALASKA 49th — Kit D. Miller — 12-8830 — REGISTERED PROFESSIONAL ENGINEER

3/16/05

CHECKED BY: J. Beedle

DRAWN/REVISED BY: K.M./T.M.

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

Coffman Cove Ferry Terminal & Road Reconstruction

Estimate of Quantities - 1

PROJECT DESIGNATION NUMBER
67844 / 67667

STATE	YEAR
ALASKA	2005
SHEET NUMBER	TOTAL SHEETS
Q1	6

✓ 2/07

SUMMARY OF QUANTITIES BY PROJECT

Item No	Pay Item	Pay Unit	Project 67884 Ferry Terminal Estimated Quantity	Project 67667 Road Reconstruction Estimated Quantity	Total Estimated Quantity
618 (1)	Seeding CO NO.1	Square Yard	~~2,280~~ 5047		~~2,280~~ 5047
620 (1)	Topsoil Deleted CO NO.1	~~Square Yard~~	~~1,520~~		~~1,520~~
621 (5)	Plantings	Lump Sum	All Required		All Required
625 (2)	Pedestrain Barrier Deleted CO NO.1	~~Linear Foot~~	~~214~~		~~214~~
626 (1-6)	Sanitary Sewer Conduit, 6 Inch CO NO.1	Linear Foot	~~208~~ 215 108		~~215~~ 108
626 (2)	Sewer Service Connection, 4-Inch	Lump Sum	All Required		All Required
626 (3)	Sanitary Sewer Cleanout	Each	2		2
626 (4)	Sanitary Sewer Force Main, 3-inch HDPE CO NO.1	Linear Foot	~~373~~ 515 566		~~515~~ 566
626 (5)	Arctic Pipe Sanitary Sewer Force Main, 3-inch HDPE Deleted by CO NO.1	~~Linear Feet~~	~~80~~		~~90~~
627 (01A)	8 Inch Ductile Iron Water Conduit, Class 52	Linear Foot	~~740~~ 748		~~740~~ 748
627 (01B)	8-inch HDPE Water Conduit, SDR 11 CO NO.1	Linear Foot	~~152~~ ~~255~~ 209		~~255~~ 209
627 (01C)	8-inch HDPE Arctic Pipe Water Conduit Deleted by CO NO.1	~~Linear Feet~~	~~100~~		~~100~~
627 (05)	Fire Hydrant Installation CO NO.1	Each	2		2
627 (08A)	Water Service Connections, 2-inch	Lump Sum	All Required		All Required
627 (08B)	Water Service Connection, 1-inch	Lump Sum	All Required		All Required
627 (09-8)	Install 8 Inch Gate Valve	Each	1		1
627 (10)	Adjustment of Valve Box	Each		6	6
627 (11)	Vacuum Valve Vault	Lump Sum	All Required		All Required
627 (12)	Potable Water System (Marine)	Lump Sum	All Required		All Required
628 (1)	Sanitary Sewer Treatment Facility CO NO.1	Lump Sum	All Required		All Required
629 (1)	Sanitary Sewer Lift Station & Valve Vault CO No.1	Lump Sum	All Required		All Required
635 (1)	Insulation Board	MBM	~~0.90~~ 0.727	~~0.5~~ 0.048	~~1.40~~ 0.8
639 (3)	Driveway	Each		~~14~~ 15	~~14~~ 15
640 (1)	Mobilization And Demobilization	Lump Sum	All Required	All Required	All Required
641 (1)	Erosion And Pollution Control Administration	Lump Sum	All Required	All Required	All Required
641 (3)	Temporary Erosion And Pollution Control	Lump Sum	All Required	All Required	All Required
641 (4)	Temporary Erosion & Pollution Control Amendments (NOT USED)	Contingent Sum	All Required	All Required	All Required
642 (1)	Construction Surveying	Lump Sum	All Required	All Required	All Required
642 (3)	Three Person Survey Party (NOT USED)	Hour	~~40~~	~~5~~	~~45~~ 0
642 (9)	Reference Existing Monument	Each	~~16~~	1	~~17~~
642 (10)	Monument Case	Each	~~10~~	1	~~21~~ 1
642 (13)	CONSTRUCTION Surveying for Modifications - CO NO.1	Lump Sum	All Required		All Required
643 (2)	Traffic Maintenance	Lump Sum	All Required	All Required	All Required
643 (3)	Permanent Construction Signs	Lump Sum	All Required	All Required	All Required
644 (1)	Field Office	Lump Sum	All Required	All Required	All Required
644 (2)	Field Laboratory	Lump Sum	All Required	All Required	All Required
644 (6)	Vehicles	Lump Sum	All Required	All Required	All Required
644 (8)	ADA VAN - CO NO.2	Lump Sum	All Required		All Required
645 (1)	Training Program, 1 Trainee/Apprentice	Labor Hour	500		500
648 (1)	CPM Scheduling	Lump Sum	All Required	All Required	All Required
651 (1)	Eagle Monitoring	Hour	~~200~~ 7.5		~~200~~ 7.5
662 (1)	Electrical Power & Lighting (Marine)	Lump Sum	All Required		All Required
662 (2)	Electrical Power & Lighting (Uplands)	Lump Sum	All Required		All Required
662 (3)	Electric Power / Lighting Modifications - CO NO.1	Lump Sum	All Required		All Required
670 (6)	Preformed Pavement Markings Deleted by CO NO.1	Lump Sum	All Required	All Required	All Required
670 (1)	Painted Traffic Markings - CO NO.1	Lump Sum	All Required	All Required	All Required
695 (1)	Terminal Building	Lump Sum	All Required		All Required
695 (2)	Maintenance & Storage Building	Lump Sum	All Required		All Required
695 (3)	PURSER STATIONS - CO NO.1	Lump Sum	All Required		All Required
695 (4)	Building Modifications - CO NO.1	Lump Sum	All Required		All Required
695 (5)	KIOSK - CO NO. 4	Lump Sum	All Required		All Required

PROJECT 68079/68114
KIOSK

All Required

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ATTACHMENT NUMBER

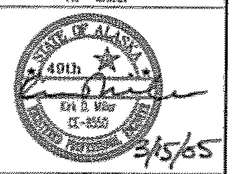
RECORD OF REVISIONS

No.	DATE	DESCRIPTION

Coffman Cove Ferry Terminal & Road Reconstruction
Project No. 67844 / 67667

ESTIMATE OF QUANTITIES - SHT 2

DESIGNED BY: K. Miller



3/15/05

CHECKED BY: J. Beedle

DRAWN/REVISED BY: K.M./T.M.

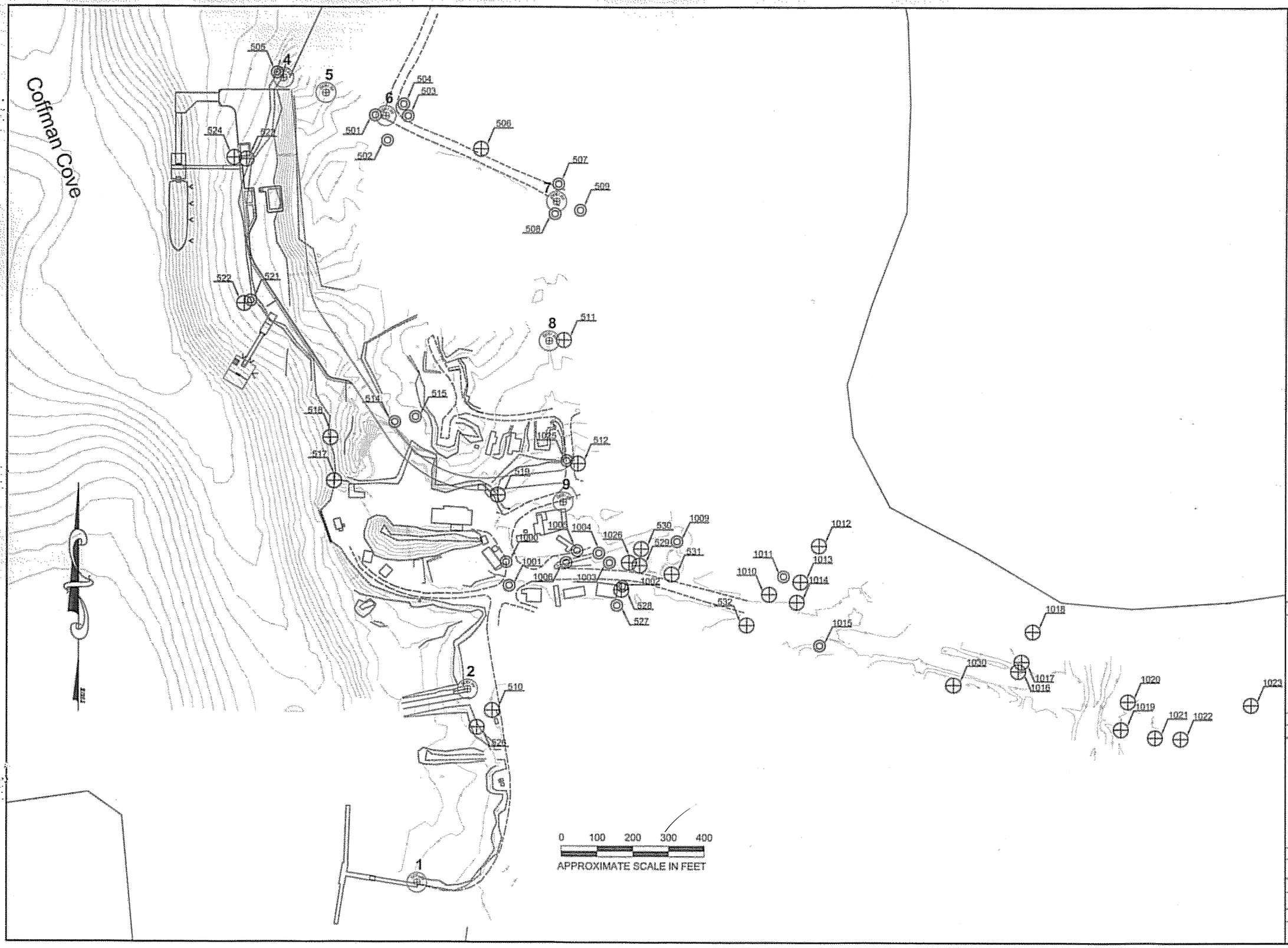
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
SOUTHEAST REGION
DESIGN & ENGINEERING SERVICES DIVISION

Coffman Cove Ferry Terminal & Road Reconstruction

Estimate of Quantities - 2

PROJECT DESIGNATION NUMBER	
67844 / 67667	
STATE	YEAR
ALASKA	2005
SHEET NUMBER	TOTAL SHEETS
Q2	6

✓ MD 2/07



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ADDENDUM NUMBER
ATTACHMENT NUMBER

RECORD OF REVISIONS		
No.	DATE	DESCRIPTION

Coffman Cove Ferry Terminal & Road Reconstruction
Project No. 67844 / 67667

SURVEY CONTROL - SHT 1

DESIGNED BY: TBK

STATE OF ALASKA
49TH
Timothy Record
LS 9813
2/15/05

CHECKED BY:

DRAWN/REVISED BY: RR RHINE

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

Coffman Cove Ferry Terminal & Road Reconstruction

Survey Control - 1

PROJECT DESIGNATION NUMBER	
67844 / 67667	
STATE	YEAR
ALASKA	2005
SHEET NUMBER	TOTAL SHEETS
SC1	6

JMB 2/07

SURVEY CONTROL

Point	North (US FT)	East (US FT)	Elevation	Description
1	500000.0000	100000.0000	22.06	GPS_BC2"_CC-1
2	500542.2707	100141.4144	22.83	GPS_BC2"_CC-2
3	502164.7640	97757.6803	22.49	ALCAP2"/REBAR_CC-3
4	502253.9137	99624.5884	38.34	ALCAP2"/REBAR_CC-4
5	502212.2022	99741.8235	68.01	ALCAP2"/REBAR_CC-5
6	502147.6210	99908.2320	80.04	ALCAP2"/REBAR_CC-6
7	501911.8455	100385.0934	78.54	ALCAP2"/REBAR_CC-7
8	501521.0810	100365.9244	62.72	ALCAP2"/REBAR_CC-8
9	501070.2266	100405.9405	36.28	ALCAP2"/REBAR_CC-9

PROPERTY MONUMENTS

Point	North (US FT)	East (US FT)	Description
501	502149.9976	99878.6634	ALPROP2"/REBAR_ASLS86-163_TR-F|TR-E
502	502079.7200	99913.0104	ALPROP2"/REBAR_ASLS86-163_PT|TR-G
503	502147.1121	99970.4439	ALPROP2"/REBAR_ASLS86-163_BK-17_L-9
504	502180.3463	99957.8762	ALPROP2"/REBAR_ASLS86-163_BK-17_L-9
505	502268.9560	99607.0165	ALPROP2"/REBAR_ASLS86-163_WCMCTR-F&E
506	502056.0368	100175.2381	ALCAP3.25"_ASLS86-163_BK17_L9|L1
507	501959.9535	100390.4831	ALPROP2"_ASLS86-163_BK17_L1
508	501877.4389	100380.8200	ALPROP2"_ASLS86-163_TR-G
509	501887.3940	100451.2483	ALPROP2"_ASLS86-163_BK-16_L1
510	500483.7261	100209.7518	ALCAP3.25"BLM_WCMC_USS10099
511	501523.7798	100406.8926	ALCAP3.25"_ASLS95-32_BENT
512	501177.7566	100446.7274	ALCAP3.25"_ASLS95-32_WCC?
513	501364.3752	98187.1147	BC3.25"_WCC4_ATS1476_USFS
514	501292.3013	99935.5573	ALCAP2"/REBAR_ASLS86-163_TR-E
515	501306.6208	99993.7431	ALCAP2"/REBAR_ASLS86-163_ROW
516	502341.6793	97724.0145	BC3.5"_ATS1476_WC_C1
517	501128.0658	99767.7344	ALCAP3.25"_USS10099_WCMC_C-10
518	501248.5850	99757.5373	ALCAP3.5"_ASLS86-163_WCMC_TR-E
519	501088.6461	100224.9856	ALCAP3.25"_USS10099_C-8
521	501633.2975	99535.2400	ALCAP2.5"_ATS1590_RM_MC_TR-A_C-1
522	501624.4185	99516.9696	ALCAP3.25"_ATS1590_MC_TR-A_C-1_TR-B_C-1
523	502027.6021	99522.5333	ALCAP3.25"_ATS1590_RM_MC_TR-A_C-4
524	502032.2130	99487.9606	ALCAP3.25"_ATS1590_MC_TR-A_C-4
525	503963.2923	98292.1406	ALCAP3.25"_PUNCHMARK
526	500436.4483	100167.0572	BC3"_ATS1305_MC2
527	500780.0705	100555.9876	ALPROP2"_TR-CC7
528	500823.7267	100568.3813	ALCAP3.5"_TRCC7/S10099
529	500892.0428	100619.4337	ALCAP3.5"_C2_ASLS87-346
530	500938.6336	100623.7852	ALCAP3.5"_C3_ASLS87-346
531	500867.4707	100709.2716	ALCAP3.5"_C7_ASLS87-346
532	500725.3964	100918.8887	USFS_ALCAP3.5"_S10099
1000	500900.4469	100248.5387	TR CC4/ROW
1001	500834.8403	100256.8585	RB DISTURBED TR CC7/ROW
1002	500834.0993	100571.2161	RB AC TR CC7/ROW
1003	500900.1102	100535.3611	RB AC PC TR CC 5
1004	500926.9222	100505.7005	RB AC PC TR CC 5
1005	500933.9598	100444.9399	RB DISTURBED PC TR CC4
1006	500900.4222	100414.6764	RB AC PC CC4
1009	500959.7106	100724.2592	RB AC TR CC 6
1010	500811.7090	100981.8296	MON USS 10099
1011	500861.9107	101022.1676	RB AC TR CC 6
1012	500947.6994	101121.4944	MON WC MC USS 10099
1013	500846.3913	101069.7459	RB ROW / USS 10099
1014	500789.5182	101059.5746	MON USS 10099 / ROW
1015	500668.0041	101123.5057	RB AC B10 L6 ROW
1016	500596.3620	101671.4582	MON USS 10099 C 17
1017	500622.9684	101681.1013	MON USS 10099/ROW
1018	500708.0976	101711.7255	RM MC USS10099
1019	500433.4431	101959.1825	MON ASLS 94-114
1020	500511.3077	101978.7375	MON ASLS 94-114
1021	500410.3675	102055.0600	MON ASLS 94-114
1022	500407.1123	102126.5943	MON ASLS 86-163
1023	500501.5284	102324.3306	MON ASLS 94-114
1025	501185.8377	100415.5676	RB TR CC4 /TR CC3
1026	500900.1123	100589.7666	RB AC TR CC5
1030	500557.3781	101492.9719	ALUM3"_ASLS_86-163

HORIZONTAL CONTRL

THE BASIS OF HORIZONTAL CONTROL IS THE TRUE BEARING OF N 14°36'58" E FROM CC-1 TO CC-2. CC-1 IS A 2" BRASS CAP GROUTED INTO A ROCK JUST NORTH OF THE TRANSFER BRIDGE DOWN TO THE FLOAT DOCK AT THE COFFMAN COVE HARBOR. CC-2 IS A 2" BRASS CAP GROUTED INTO THE NORTHEAST CORNER OF A CONCRETE PAD AT COFFMAN COVE BOAT LAUNCH RAMP. CC-1 AND CC-2 WERE ESTABLISHED BY STATIC GPS OBSERVATIONS FROM USC&GS MONUMENT "BLACK". THE GEODETIC COORDINATES WERE CONVERTED TO ALASKA STATE PLANE ZONE 1 NAD-83 FEET USING CORPSCON. THE STATE PLANE COORDINATES WERE THEN ROTATED, SCALED, AND TRANSLATED BY THE FOLLOWING FACTORS TO ESTABLISH A LOCAL COORDINATE SYSTEM REFERENCED TO GEODETIC NORTH. SF=1/0.999907152 GAMMA = +0°41'56"

TRANSLATION AT CC-1

	NORTH	EAST
AKSPC	1326564.34982'	2856863.54772'
LOCAL	500000.00'	100000.00'

VERTICAL CONTROL

THE BASIS OF VERTICAL CONTROL IS CC-2 WITH AN ACCEPTED ELEVATION OF 22.83' ABOVE MLLW. THIS ELEVATION WAS ESTABLISHED BY MULTIPLE TIDAL OBSERVATIONS ON 2/8, 2/9, 2/10, 2/11, 3/7, 3/8, 3/9, AND 3/10 2000. THE WATER LEVEL WAS BASED ON PREDICTED TIDES FOR LAKE BAY. TIDAL OBSERVATIONS WERE COMPARED WITH VERIFIED TIDAL DATA FOR THE KETCHIKAN TIDAL STATION. THE DELTA'S (DIFFERENCE BETWEEN PREDICTED AND MEASURED) OF THE KETCHIKAN TIDAL STATION WERE APPLIED TO OUR COFFMAN COVE TIDAL OBSERVATIONS TO PRODUCE A MEAN ELEVATION OF 22.51' AT CC-2, HOWEVER WE HAVE CHOSEN TO STICK WITH 22.83' AS IT IS A MORE CONSERVATIVE DATUM WHEN DEALING WITH DEPTHS OF OBSTACLES BELOW MLLW. SEE PG 78 BOOK 00-08 FOR TIDAL OBSERVATIONS.

"L" LINE LOGGER'S LANE

DESC.	STATION	TANGENT/CURVE DATA		NORTHING	EASTING
BOP	10+00			500887.67	100256.98
		S89°55'57"E	225.50'		
POT	12+25.50 = "K" 19+94.18			500887.40	100482.46
		S89°55'57"E	80.12'		
PC	12+85.62			500887.33	100562.59
		R=438.55'			
		L=120.00'			
		Tan=60.38'			
		Delta=15°40'40"			
PT	14+05.62			500850.87	100661.06
		S74°15'17"E	1036.87'		
PC	24+42.49			500589.31	101659.04
		R=2237.00'			
		L=100.00'			
		Tan=50.01'			
		Delta=2°33'41"			
PT	25+42.49			500540.23	101754.83
		S71°41'37"E	228.58'		
EOP	27+71.07			500468.43	101971.86

"P" LINE FERRY TERMINAL ACCESS

DESC.	STATION	TANGENT/CURVE DATA		NORTHING	EASTING
BOP	10+00			501143.41	100420.48
		S83°25'38"W	204.35'		
PC	12+04.35			501120.04	100217.48
		R=300.00'			
		L=332.08'			
		Tan=185.36'			
		Delta=63°25'19"			
PT	15+36.43			501254.04	99931.98
		N33°08'43"W	522.97'		
PC	20+59.39			501821.91	99646.04
		R=200.00'			
		L=98.79'			
		Tan=49.36'			
		Delta=27°43'48"			
PT	21+58.18			501782.39	99614.39
		N05°34'38"W	911.92'		
EOP	26+68.10			502292.02	99568.07

"K" LINE KODIAK DRIVE

DESC.	STATION	TANGENT/CURVE DATA		NORTHING	EASTING
BOP	15+36.16			501318.54	100416.72
		S18°51'56"E	42.26'		
PC	15+78.45			501278.53	100430.39
		R=200.00'			
		L=42.93'			
		Tan=21.55'			
		Delta=12°17'59"			
PT	16+21.38			501237.75	100439.82
		S06°34'01"E	372.80'		
PI	19+94.18 = "L" 12+25.50			500887.40	100492.46

NOTE:

WHETHER LISTED OR NOT, ALL MONUMENTS OR PROPERTY MARKERS OR ACCESSORIES WHICH WILL BE DISTURBED OR BURIED SHALL BE REFERENCED PRIOR TO BEING DISTURBED AND RE-ESTABLISHED IN THEIR ORIGINAL POSITION AND A RECORD OF MONUMENT FORM IN ACCORDANCE WITH A.S. 34.65.040 SHALL BE SUBMITTED TO THE CONSTRUCTION ENGINEER FOR REVIEW PRIOR TO RECORDING. COORDINATE VALUES LISTED ARE FOR INFORMATIONAL PURPOSES AND SHOULD BE USED TO RESET MONUMENTS ONLY AS A LAST RESORT.

IF ANY PAIR OF CONTROL POINTS DISAGREES FROM PUBLISHED VALUE BY MORE THAN 1:10,000 HORIZONTALLY OR VERTICALLY THEN A THIRD NETWORK POINT MUST BE TIED TO ASCERTAIN WHICH POINT IS IN ERROR OR HAS BEEN DISTURBED.

PATH: Q:\Pw\67844\MP\Project Summary\SC1-Surv
Fri, 11/Mar/05 02:35PM kmiller1
PLOT:
TAB: SC2 ADDENDUM NUMBER

ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION

Coffman Cove Ferry Terminal & Road Reconstruction
Project No. 67844 / 67667

SURVEY CONTROL - SHT 2

DESIGNED BY: TER

STATE OF ALASKA 40th Terry Ekker LS 10613 REGISTERED PROFESSIONAL LAND SURVEYOR 3/15/05

CHECKED BY:

DRAWN/REVISED BY: TER ENTERED

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

Coffman Cove Ferry Terminal & Road Reconstruction

Survey Control - 2

PROJECT DESIGNATION NUMBER	
67844 / 67667	
STATE	YEAR
ALASKA	2005
SHEET NUMBER	TOTAL SHEETS
SC2	6

✓ MB 2/07

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND
PUBLIC FACILITIES

Computations

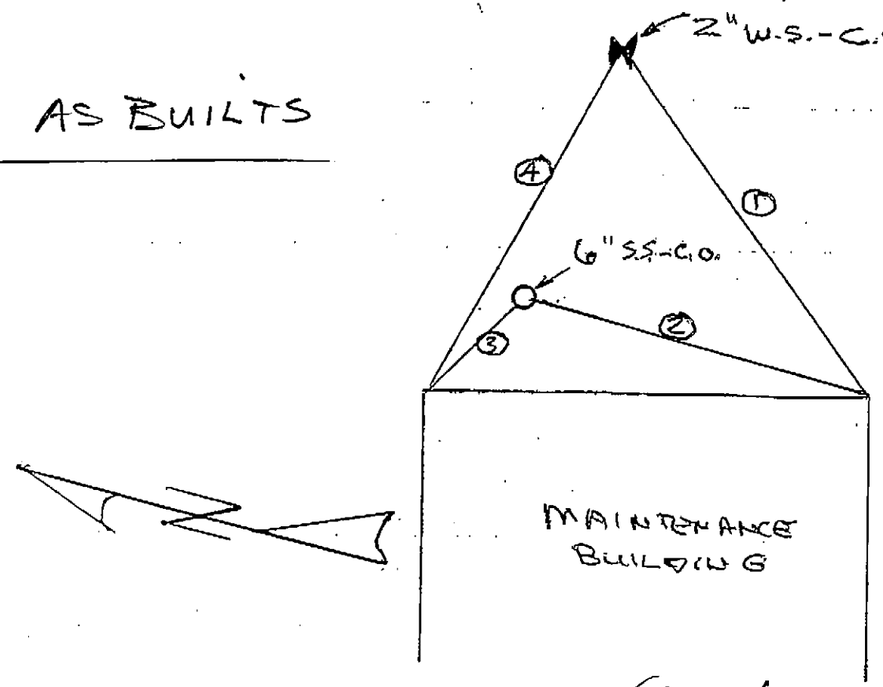
Item No. _____

DATE JANUARY 30, 2007
Project No. 67844
Project Name SCPT
Calc. by PR
Checked By [illegible]

For SWING TIE

CORNER	DISTANCE	OBJECT	ID BELOW
SOUTHEAST MAINTENANCE BLDG.	53.7'	2" WATER SERVICE CURB STOP	(1)
✓	38.9'	6" SEWER SERVICE CLEAN OUT	(2)
NORTHEAST MAINTENANCE BLDG.	16.1'	6" S.S. - C.O.	3
✓	52.9'	2" W.S. - C.S.	4

WATER / SEWER AS BUILTS



✓ 2/07

25D-120 (5/84)
FEB-01-2007 THU 04:01 AM
P. 002

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND
PUBLIC FACILITIES

Computations

For SWING TIES

Item No. _____

DATE 01-30-07
Project No. 67644
Project Name CCFT
Calc. by FR
Checked By GM

CORNER	DISTANCE	OBJECT	ID SEE P. 5
NORTHEAST MAINTENANCE BLDG.	7.3'	4 Pt. CONCRETE CURB	(1)
✓	45.3'	✓	(2)
✓	58.4'	✓	(3)
✓	42.3'	CORNER CONCRETE VAULT	(4)
✓	35.9'	✓	(5)
✓	34.0'	✓	(6)
✓	28.6'	✓	(7)
✓	33.6'	6"x6" TREATED ELECTRIC PANEL SUPPORT POST	(8)
✓	32.3'	✓	(9)
✓	25.7'	12" DIAMETER PLASTIC PIPE	(10)
✓	18.5'	MOTOR ON 2.0'x1.65' CONCRETE PAD	(11)

Water, Sewer AS BUILTS

GM 2/07

Sheet 2 of 6 Sheets
25D-120 (5/84)

FEB-01-2007 THU 04:01 AM P. 003

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND
PUBLIC FACILITIES

Computations

Item No. _____

DATE 01-30-07
Project No. 67844
Project Name SCFT
Calc. by TR
Checked By [signature]

For SWING TIES

CORNER	DISTANCE	OBJECT	ID SEE P. 5
NORTHEAST MAINTENANCE BLDG.	21.1'	12" DIA. PLASTIC PIPE	(11A)
✓	17.0'	3.5'Hx 6" DIA. PVC VENT PIPE	(12)
✓	17.2'	12" DIA. PLASTIC PIPE	(13)
NORTHWEST MAINTENANCE BLDG.	22.4'	✓	14
✓	19.5'	6" DIA. VENT	15
✓	17.5'	MOTOR ON CONC PAD	16
✓	18.0'	12" DIA. PLASTIC PIPE	16A
✓	15.9'	✓	17
✓	14.7'	6"x6" POST	18
✓	17.6'	✓	19

Water / Sewer
As-Built

✓ 2/07

Sheet 3 of 6 Sheets
25D-120 (5/84)

FEB-01-2007 THU 04:02 AM P. 001/002

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND
PUBLIC FACILITIES

Computations

Item No. _____

DATE 01-30-07
Project No. 67844
Project Name CCFT
Calc. by TR
Checked By _____

For SWING TIES / AS BUILT

CORNER		DISTANCE	OBJECT	ID (SEE PG 5)
NORTH WEST MAINTENANCE	BLDG.	20.7	COR. CONC. VAULT	20
✓		28.0'	✓	21
✓		30.0'	✓	22
✓		37.3'	✓	23
✓		46.8'	⊥ pt. 6" CONCRETE CURB	24
Water / Sewer As-Builts				
✓		44.5'	✓	25
✓		30.0'	✓	26
✓		7.1'	4" SEWER SERVICE CLEAN OUT	27
NORTH EAST MAINTENANCE BLDG.		17.5'	✓	28

✓ 2/07

25D-120 (5/84)
FEB-01-2007 THU 04:02 AM
P. 002/002

Water / Sewer
As Builts

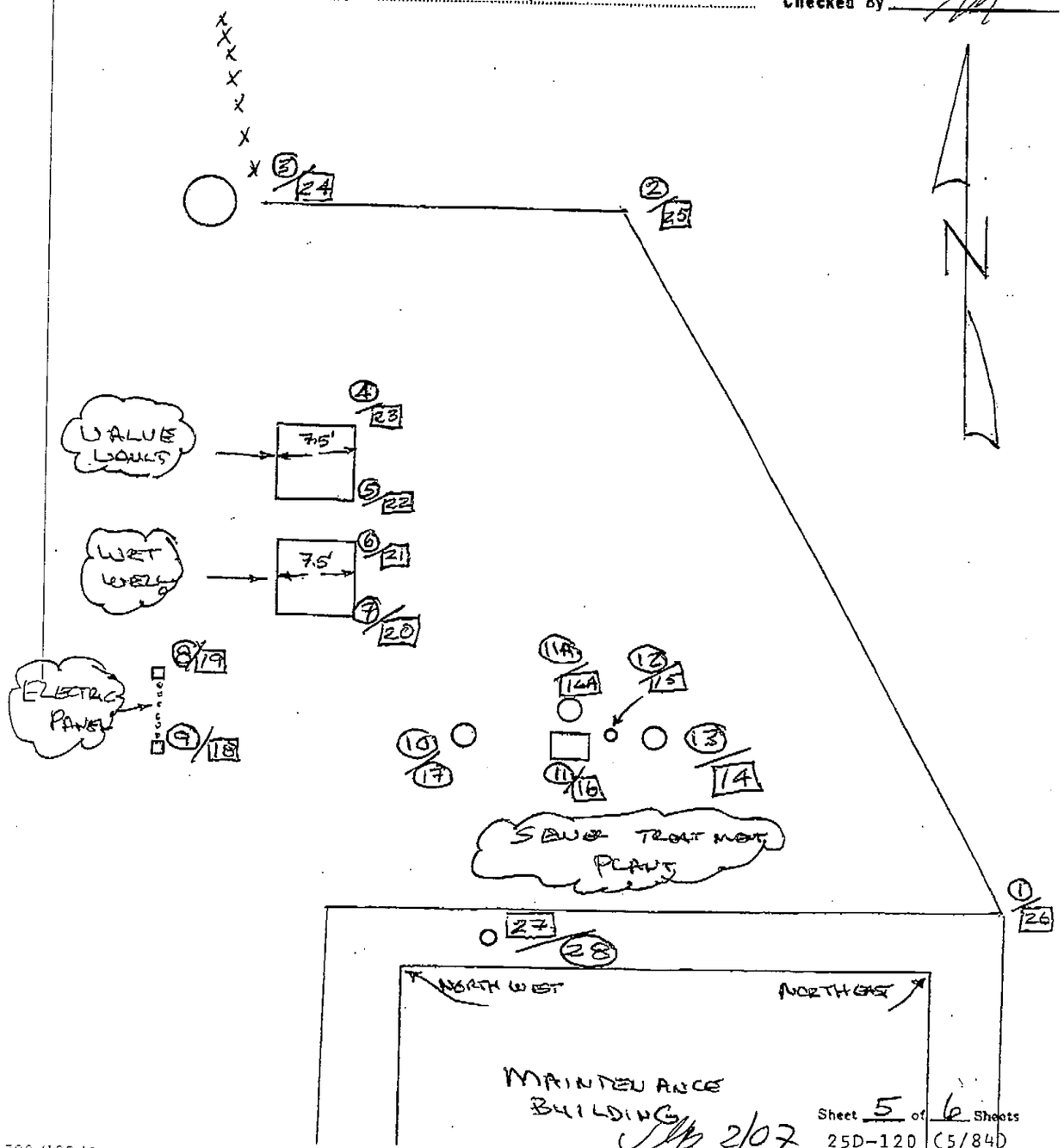
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND
PUBLIC FACILITIES

Computations

For SEWER TIES / ASBUILT

Item No. _____

DATE 01-30-07
Project No. 67844
Project Name CCFT
Calc. by TR
Checked By JM



JM 2/07

Sheet 5 of 6 Sheets
25D-120 (5/84)

FEB-01-2007 THU 04:03 AM P.001/002

Water / Sewer
As-Builts

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND
PUBLIC FACILITIES

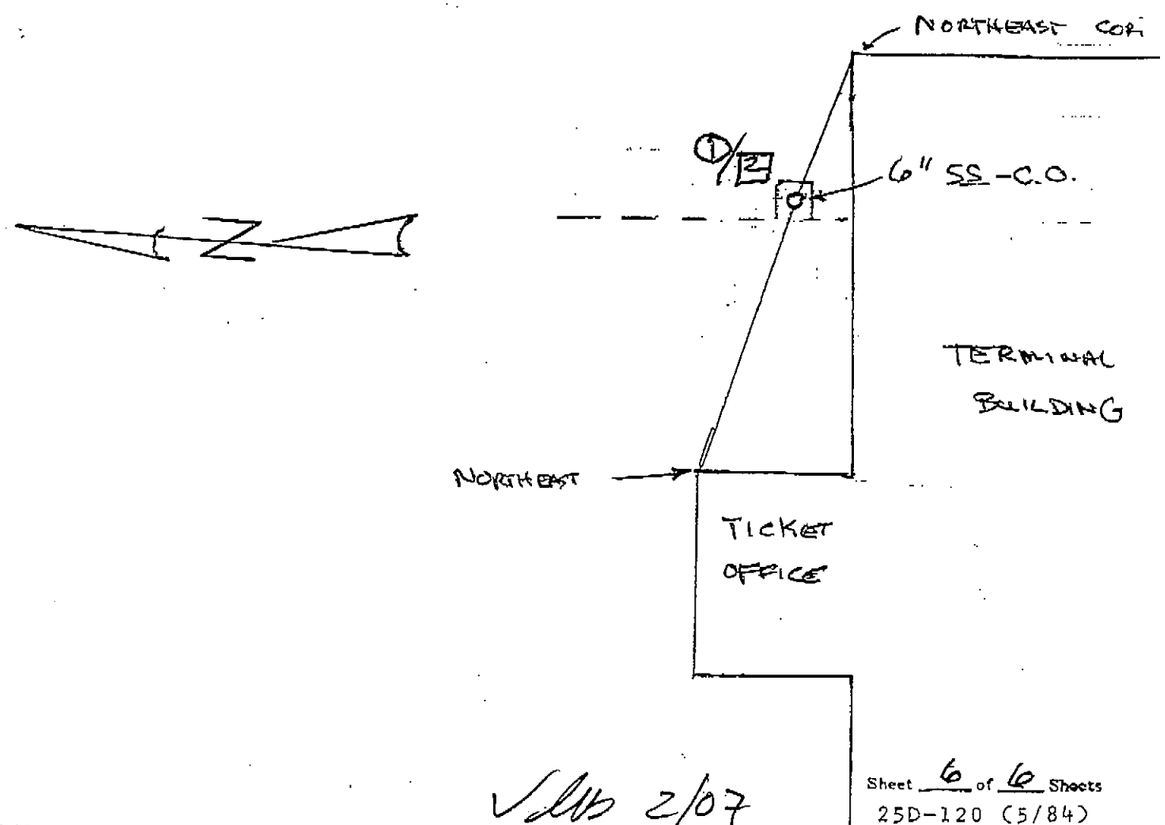
Computations

For SWING TIES / AS BUILT

Item No. _____

DATE 01-30-07
Project No. 67844
Project Name CCFT
Calc. by TR
Checked By [illegible]

CORNER	DISTANCE	OBJECT	ID
NORTHEAST TERMINAL BLDG.	13.3'	6" SEWER SERVICE CLEAN OUT IN 2'x2' CONCRETE PAD	(1)
NORTH EAST TICKET OFFICE TIP-OUT	26.4'	6" SS-C.O.	(2)



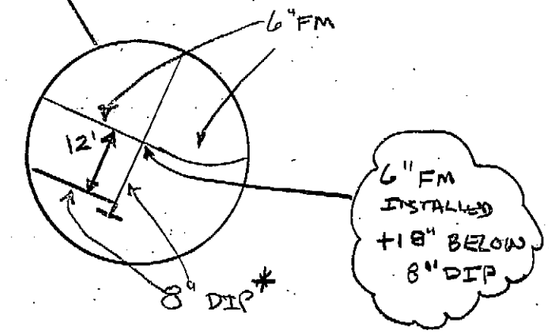
Sheet 6 of 6 Sheets
25D-120 (5/84)

2/07

FEB-01-2007 THU 04:03 AM P.002/002

water & sewer
As-Builts

FILL LIMIT
MEAN HIGHER HIGH WATER
300' EAGLE TREE RADIUS
6" HDPE SEWER FORCE MAIN
VALVE VAULT
WET WELL
SEWAGE TREATMENT UNIT
2" WATER SERVICE
8" HDPE WATERLINE
AIR RELEASE VALVE
8" * GATE VALVE
6" DIP * SEWER SERVICE
8" DIP * WATERLINE
ELECTRICAL CONDUIT
1" WATER SERVICE 3.5' BURY 2" FOAM BOARD
6" DIP SEWER SERVICE
2" WATER SERVICES
6" DIP INSTALLED +22" BELOW 2" WATER SERVICE
ELECTRICAL CONDUIT
FH
LIGHT POLES, SEE PLAN SET E
2" WATER SERVICE - 3.5' BURY - 2" FOAM BOARD & ELECTRICAL X'ING



*: ENCASED IN POLYETHYLENE MATERIAL (8-MIL)

GRAPHIC SCALE
30 0 15 30 60 120
(IN FEET)

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

DESIGNED BY: MIKE L.
CHECKED BY: PETE B.
DRAWN BY: MIKE L.
PATH:
PLOT: 2/07

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

Coffman Cove Ferry Terminal
Project 67844

GENERAL LAYOUT

REVISIONS NO.	DATE	DESCRIPTION

PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
67844	FEB 2005	G3	13

Subject: Re: elevations
Date: Thu, 19 Jan 2006 08:41:53 -0900
From: "Gregory E. Browning" <greg_browning@dot.state.ak.us>
To: Kelly Nickerson <kelly@seroad.com>
CC: "Nickerson, Kelly" <kelly@seroad.com>, "Roth, Pam" <pkroth48@hotmail.com>, Sound Electric <s-e-i@whidbey.com>, "Scott, john" <john_scott@dot.state.ak.us>, "Roundtree, Patrick L" <patrick_roundtree@dot.state.ak.us>, "Whiteley, Tim" <twhiteley@ak.net>, "Martinsen, Jim" <tamico@aptalaska.net>

Kelly,

Here are the elevations for the different structures I am using--please verify before using:

30.68--Pedestrian Abutment
26.04--Vehicle Abutment
32.52--FF Terminal Building
~~30.70~~--FF Maintenance Building
31.00 GM 2/21/06 KN

All if any questions. Please inform your surveyors, subcontractors, superintendent, etc. Thanks.

Greg Browning

Kelly Nickerson wrote:

> Grego,
>
> Would you please forward the elevations to me that we're using for the FF of the Maintenance building and the Terminal building. You've given me a paper copy before but I must've left it in ThorneBay.
>
> Thank you,
>
> Kelly

AS-BUICT Elevations.

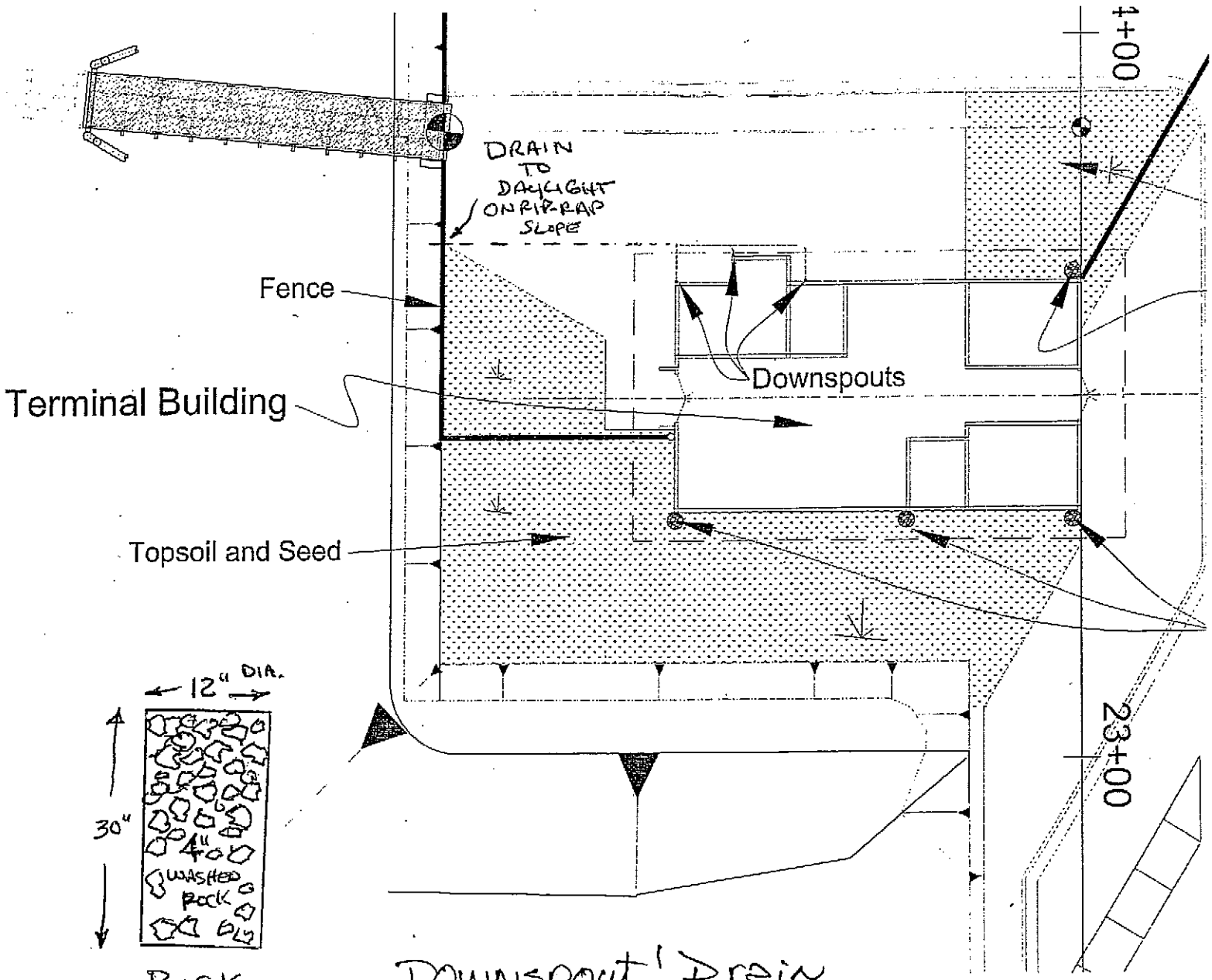
--
Sincerely,

Gregory E. Browning
Construction Project Engineer
State of Alaska-DOT/PF-Southeast Region
Cordova Ferry Terminal & Coffman Cove Ferry Terminal

907-329-2030 - PHONE
907-329-2031 - FAX
greg_browning@dot.state.ak.us - EMAIL

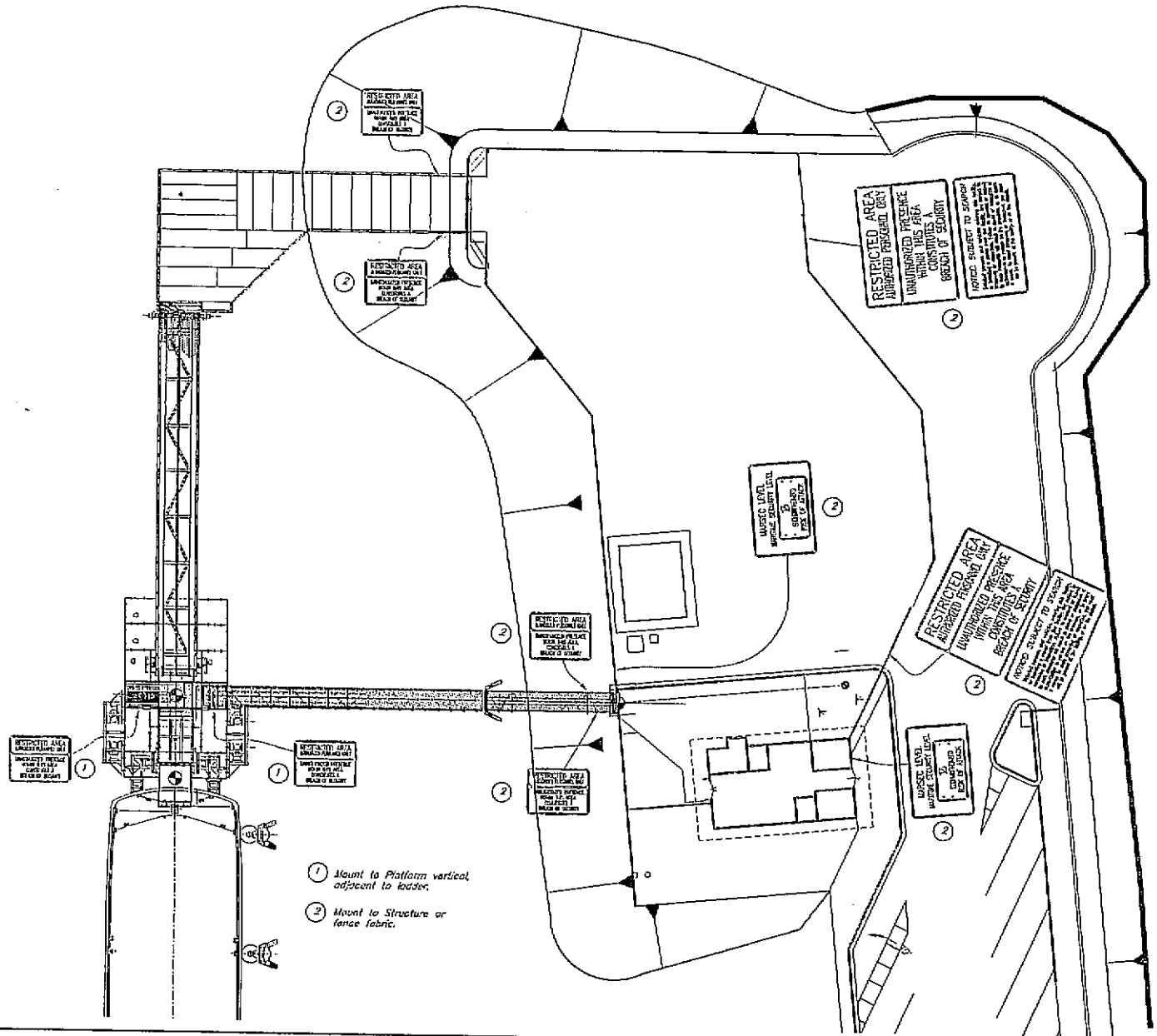
box 18024
coffman cove, ak 99918 - ADDRESS

✓ GM 2/07



Downspout Drain
As Builts @
Term. BLDNG.

V GB 2/07



Marsec Sign Location

5/9 2/02

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

DESIGNED BY: K. Merrill Scott

CHECKED BY: B. Sadie

DRAWN BY: Staff

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
& PUBLIC FACILITIES
S.E. REGION DESIGN & ENGINEERING SERVICES DIVISION

Coffman Cove Ferry Terminal
Project 67844
Marsec
Signage Layout

PATH: C:\11005 Coffman Cove FT\Marsec Signs 5-24-02.dwg
PLOT: PSPACE 1=1 Title: Marsec Signage Wed, 24/May/02 07:43PM

NO.	DATE	REVISIONS DESCRIPTION

PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
67844	2005	MS 1	99