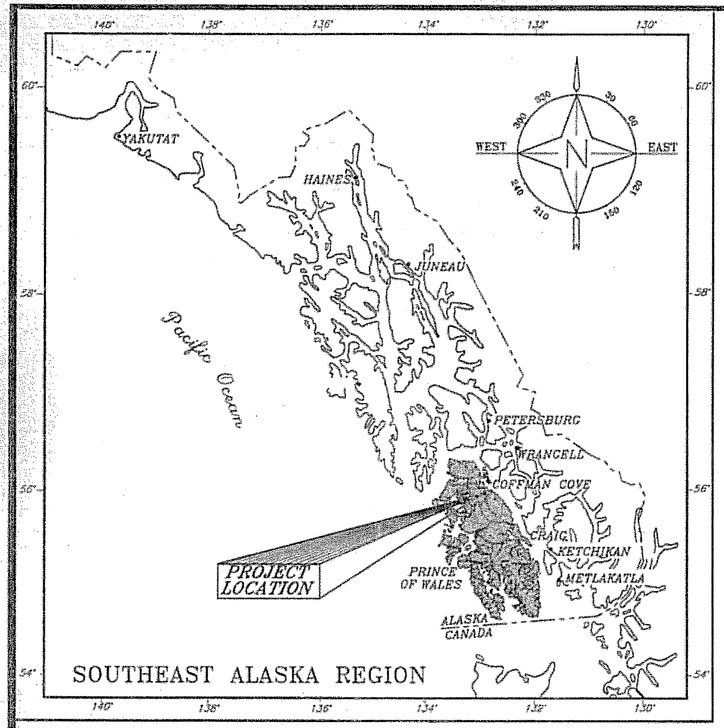
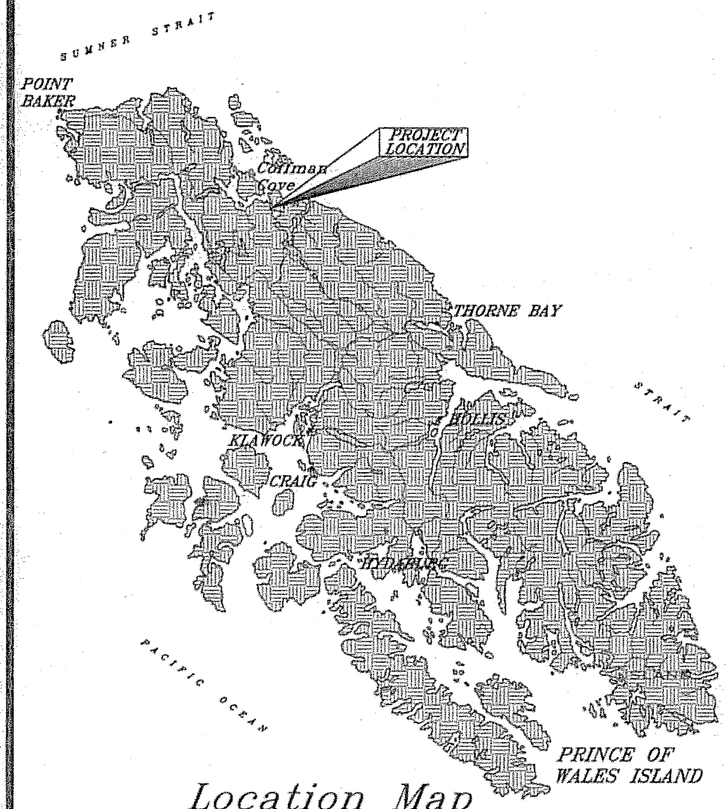




Location Map

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
SOUTHEAST REGION

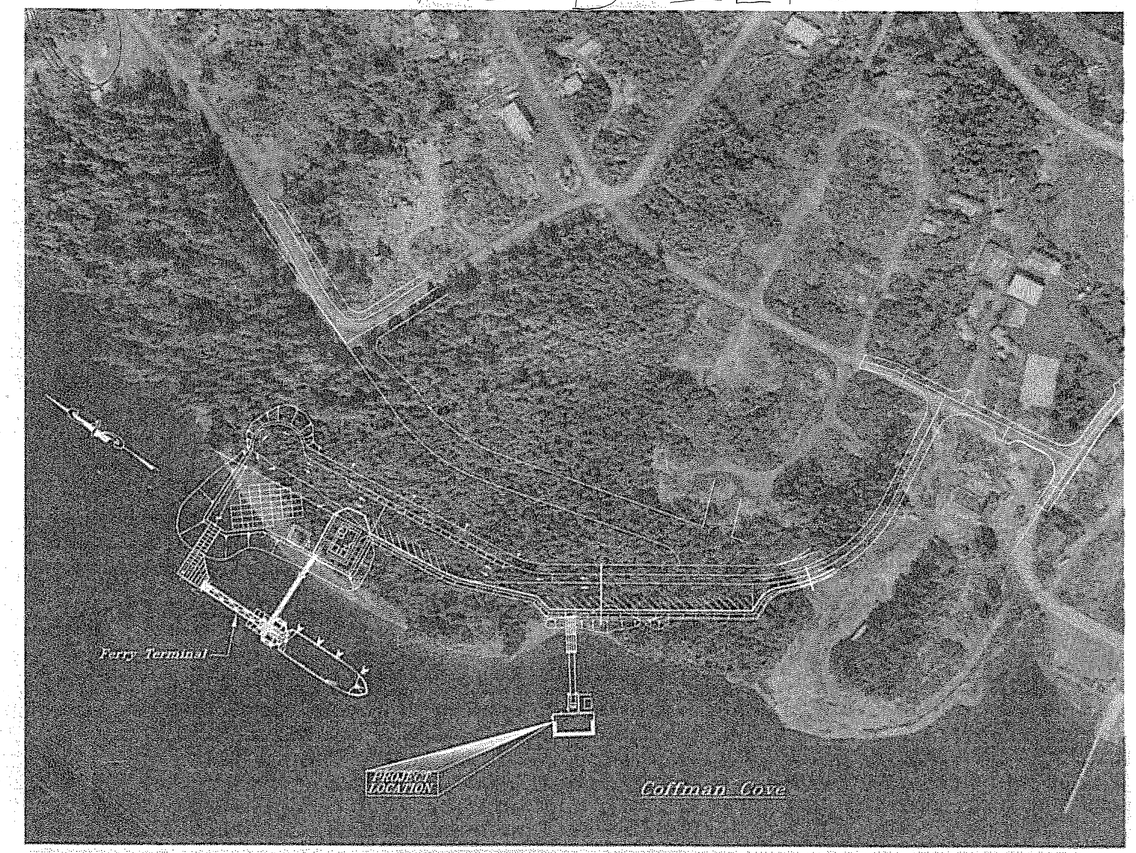
COFFMAN COVE, ALASKA

COFFMAN COVE SEAPLANE FLOAT RELOCATION

Project No. 67904

AIP Project No. 3-02-0064-002-2006

AS-BUILTS



Site Map

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2	Estimate of Quantities & General Notes
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39	Sign Details

AS-BUILT PLANS
CONTRACTOR: WESTERN DOCK AND BRIDGE
PROJECT ENGINEER: PATRICK ROUNDTREE
BEGIN DATE: AUG. 17, 2006
END DATE: APRIL 9, 2007

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
SOUTHEAST REGION

APPROVED _____ Date 3/28/06
Regional Preconstruction Engineer
Patrick J. Kemp

APPROVED _____ Date 3/28/06
Director, S.E. Region
Malcolm A. Menzies

PROJECT NUMBER: 67904

DATE: April, 2006

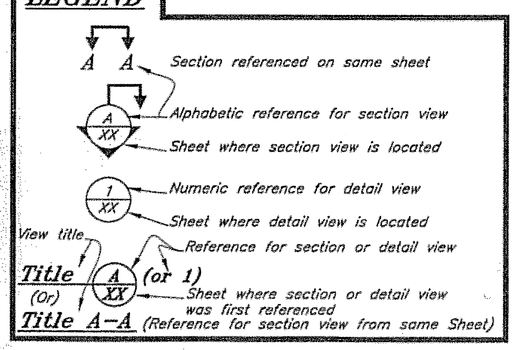
SHEET 1 OF 39

STATE OF ALASKA
49th
Kirk D. Miller
CE-8550
REGISTERED PROFESSIONAL ENGINEER
3/31/06

Estimate of Quantities

Item No	Pay Item	Pay Unit	Quantity
504(1)	Trestle Backwall & Approach Slab	Lump Sum	All Req'd
504(2)	20'x69' Steel Approach Trestle	Lump Sum	All Req'd
504(3)	11'x100' Steel Gangway	Lump Sum	All Req'd
504(4)	Gangway Float Pile Cap	Lump Sum	All Req'd
504(A)	CLASS A CONCRETE (C.O.#2)	LUMPSUM	All REQ'D
505(1)	16" dia. x 1/2" Wall Pipe Piles, Furnished	Linear Foot	160
505(2)	16" dia. x 1/2" Wall Pipe Piles, Driven	Each	7
505(3)	18" dia. x 1/2" Wall Pipe Piles, Furnished	Linear Foot	790
505(4)	18" dia. x 1/2" Wall Pipe Piles, Driven	Each	7
505(5)	Drilled Rock Socket for 16" dia. Pile	Each	7
505(6)	100 lb Anode for 16" dia. Trestle Pile	Each	3
505(7)	100 lb Anode for 18" dia. Float Pile	Each	7
505(8)	Navigation Light – Pile Mounted	Lump Sum	All Req'd
505(9)	Wind Cone – Pile Mounted	Lump Sum	All Req'd
504(5)	PILE CAP ADJUSTMENT (C.O.#1)	LUMPSUM	All REQ'D
506(1)	20'x36' Timber Gangway Float	Lump Sum	All Req'd
506(2)	43'x80' Timber Mooring Float	Lump Sum	All Req'd
506(3)	25'x36' Timber Ramp Float	Lump Sum	All Req'd
506(4)	Leveling Flotation, Furnished	Cubic Foot	71
506(5)	Leveling Flotation, Installed	Each	~~10~~ 8
615(7)	Signs	Lump Sum	All Req'd
640(1)	Mobilization & Demobilization	Lump Sum	All Req'd
640(4)	Worker Meals and Lodging, or Per Diem	Lump Sum	All Req'd
641(1)	Erosion and Pollution Control Administration	Lump Sum	All Req'd
641(2)	Temporary Erosion and Pollution Control	Contingent Sum	All Req'd
642(1)	Construction Surveying	Lump Sum	All Req'd
644(1)	Field Office	Lump Sum	All Req'd
644(6)	Vehicles	Lump Sum	All Req'd

LEGEND



Abbreviations

SS – Stainless Steel
Galv. – Galvanized
Typ – Typical
O.C. – On Center
U.O.N. – Unless Otherwise Noted
Econ. Hd. – Economy Head
Alum – Aluminum
L – Long
W – Wide
D – Deep
FG – Finished grade
O–O – out to out
PT – Pressure treated
btm – bottom
PL – Plate
CL – Centerline
CTSK – Countersink
MI – Malleable Iron

General Notes

Specifications: *Per applicable Contract Documents. See Special Provisions.*

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

Materials

Steel:

Tube Sections: *ASTM A500 Grade B*

Piles: *Straight Seam, ASTM A252 Grade 3 or equal.*

Pipe: *A53, Grade B, Type E or S*

Stainless: *Type 302, 304 or 316*

Steel Shapes & Plates: *ASTM A36 or equal. Structural shapes for pile caps, girders, gangway support beams & ledgers shall conform to ASTM A709, Grade 36. Reference trestle notes, Sheet 5.*

Pile Tips: *APF 0-14000 or APF 0-14001 welded drive shoes or approved equal. Drive shoes are required on all piling.*

Steel Coatings : *All steel fabrications and hardware shall be hot-dip galvanized after fabrication per ASTM A123 and A153.*

Bolts and Fasteners: *ASTM A325 for steel connections. ASTM A307 for timber connections.*

Tension Rods:
Steel tension rods shall be all-thread rebar, Williams Form Engineering Corp, Grade 75 conforming to ASTM A615 or approved equal. Furnished in the nominal diameter and full length required without internal splices. Tension nuts shall be 2" in overall length. Provide jam nut at all connections after initial and final tensioning. All tension rods & hardware shall be hot-dip galvanized after fabrication.

Timber:
Sawn timber shall be Douglas Fir, No. 1 or better per WCLIB/WWPA grading rules.
Sawn timber decking shall be Douglas Fir, No. 1 or better per WCLIB/WWPA grading rules.
Cedar top rail for trestle shall be Alaska or Pacific Coast Yellow Cedar, No. 1 or better per WCLIB/WWPA grading rules.
All sawn timber shall be S4S except decking (milled S1S2E).
Cedar top rail shall be S4S but milled to the nominal 2" net thickness noted on Plans.

Glulam Stringers and Diaphrams shall be DF/DF, Combination 24F-V8.
Glulam Deck Panels, Blocking & Backwall shall be DF, Combination 2.

UHMW Plastic: *Ultra high moleculer weight plastic (UHMW) shall be made from materials conforming to ASTM D4020. Color shall be black.*

Aluminum: *Shapes - ASTM 6061-T6 Plates - ASTM 5086 H112*

Metal Deck Grating:
Steel interlocking diagonal grid with welded joints. Main rails 5-3/16" deep at 7-1/2" spacing with supplemental cross and diagonal bars. Steel components shall have minimum yield strength of 36 ksi with minimum section modulus of 3.64 in^3/ft. Grating shall be hot dip galvanized after fabrication.

Concrete:
Concrete shall be Class A or AA in accordance with Standard Specifications for Highway Construction, Section 501 - Structural Concrete. Reference Plans for designations. Texture horizontal surfaces with a heavy broom finish.

Expanded Metal Walkway:
Standard expanded metal type, 3/4" - #10 size and hot dip galvanized after fabrication. Sections shall be provided in the nominal width shown. Average panel length (in direction of walkway travel) shall be 10'. Panels shall be bond sheared. Submit proposed panel layout prior to fabrication and installation. Shop cut holes for float tie-down eye bolts as required. Attach expanded metal panels to deck surface with 1-1/2" long galvanized staples. Staple at all panel corners and along panel edges at 16" OC. Also place four staples around perimeter of tie-down and at panel interior locations every 24" staggered row or as directed by the Engineer to maintain flatness of panel.

Welding:
Unless otherwise noted on Plans or Specifications, all welding shall be done by qualified welders in accordance with AWS D1.1 or AWS D1.2.

Timber Treatment:

Sawn timbers for milled decking, bumper boards & wheel guards shall be treated with ACZA to 0.6 pcf retention.
Glulam stringers, diaphrams & bottom sills shall be treated with Creosote, 12 pcf retention.
Glulam backwall, sub-deck panels and blocking shall be treated with Copper Naphthenate to 0.06 pcf retention.
Glulam tie-down rails & wheel guards to be treated with ACZA to 0.6 pcf retention.
Cedar top rail shall be treated with two coats of linseed oil based preservative/water repellent semi-transparent clear stain.

Polystyrene Flotation:

Flotation planks shall be constructed from closed cell expanded polystyrene (EPS) per ASTM D1621. Minimum density shall be 1.1 pcf. Materials shall have a maximum water absorption of 4 percent by volume in accordance with ASTM C272. The planks shall be cut and notched to the nominal dimensions indicated on the plans. All notches and cuts shall be performed using a hot-wire or other approved methods.

All flotation planks shall be coated after fabrication with a polyurethane elastomeric coating to a minimum dry film thickness of 50 mils. Polyurethane coatings shall be "Hydroseal 2090" brand or approved equal. All field cuts, nicks and abrasions to the coating shall be repaired to the specified thickness.

Timber Float Systems:

Fabricate all timber members to size prior to treatment. Drill all bolt holes and cut daps prior to pressure treatment (except where specified). Pilot holes for lag screw threads may be drilled after pressure treatment. Treat all field drilled holes and cuts with 5% copper naphthenate solution.

All timber bolts are economy head type with lugs and M.I. washers, unless otherwise noted. Provide double nuts or jam nut when indicated on plans.

Rubber Tire Bumpers: Tire bumpers shall be of 13-14 inch nominal rim size having an outside diameter of 23-25 inches and a tread width of approximately 6-inches. Tires shall be generally of the same uniform appearance and size. All tires shall be have a minimum of 1/8-inch of "summer tread". Tires with studs, exposed belting or other visible signs of damage will not be accepted. Pre-drill holes for hardware installation. Coordinate installation so that hardware installation does not conflict with other float system hardware where required.

All fabrication and connection details are not shown. Provide detailed shop drawings showing all members, fabrication methods/sequence and lifting and handling details.

Machine or power driven nails will not be permitted.

Chamfer or bullnose all glulam and sawn timber bullrail corners prior to treatment.

Bumper boards shall be provided in nominal 16-foot lengths. Minimum board lengths shall be 10-feet. Nail all bumper boards with 20d hot-dip galvanized spiral shank nails at 12" OC (max) staggered row and 2 nails at ends. Predrill pilot hole to prevent splitting as required.

Milled decking placed over glulam subdecking shall be provided in nominal 16-18 foot lengths. Minimum length shall be 10-feet unless otherwise required or permitted. Notch/cut as required to fit around pile collar weldments and other items. Space milled decking 1/4" apart and nail to glulam subdecking with 16d hot-dip galvanized spiral shank nails. Install 2 nails at 16" OC (max) and 2 nails at each end. Predrill pilot hole to prevent splitting as required. Stagger adjacent deck joints a minimum of 4-feet apart.

3x10 milled decking for the ramp float shall be fastened to framing members per the notes contained on Sheet 26.

Glulam sub-decking shall be spaced ¼" apart (except for gangway float, see Plans) and secured to each stringer with galvanized lag screws w/ 1/4"-thick plate washers of the size and spacing indicated. Predrill proper size shaft and thread holes. Lubricate lags prior to installation.

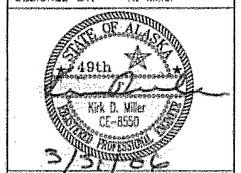
Counterbore for all bolt heads facing decking to be flush or otherwise covered by other members and where noted on the plans prior to treatment.

Secure exterior glulam blocking to exterior stringers and diaphram members with 2 each, 5/8" diam by 9" L lags w/ plate or MI washers (CTSK) within 12" of ends and every 3' OC (max) staggered row or as otherwise noted on plans or approved by the Engineer. Space blocking lags to miss other hardware. Also install additional lag bolts thru glulam sub-deck and into exterior blocking (2 lags per panel along exterior long side and approximately 3'-0" OC along short sides).

Fabricate glulam diaphram members with 1-1/4" nominal diameter holes at indicated dimensions for passage of steel tension rods. For initial tensioning, torque tension rods to maximum practical tension without crushing timber bearing surfaces or as otherwise approved by the Engineer. For final tensioning, all tension rods shall be checked and nuts and jam nuts re-tightened after the float has been installed and prior to project completion.

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

DESIGNED BY: K. Miller
CHECKED BY: J. Beadle
DRAWN BY: C. Fuman



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

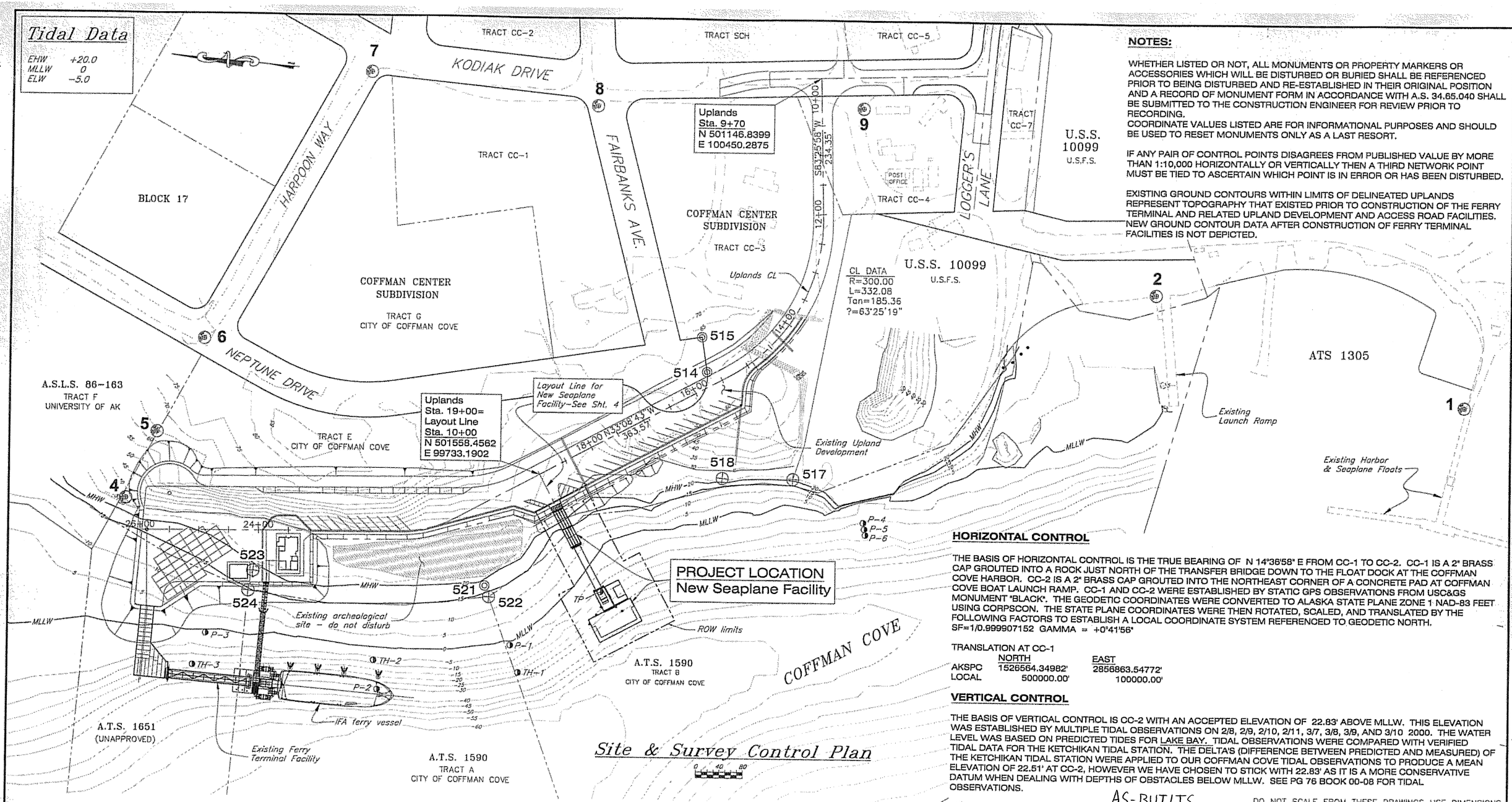
Coffman Cove Seaplane Float Relocation
Project 67904

Estimate of Quantities & General Notes

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REVISIONS NO.	DATE	DESCRIPTION	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			67904	2006	2	39

AS-BUILTS



NOTES:

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.

EXISTING GROUND CONTOURS WITHIN LIMITS OF DELINEATED UPLANDS REPRESENT TOPOGRAPHY THAT EXISTED PRIOR TO CONSTRUCTION OF THE FERRY TERMINAL AND RELATED UPLAND DEVELOPMENT AND ACCESS ROAD FACILITIES. NEW GROUND CONTOUR DATA AFTER CONSTRUCTION OF FERRY TERMINAL FACILITIES IS NOT DEPICTED.

HORIZONTAL CONTROL

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	1526564.34982'	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 76 BOOK 00-08 FOR TIDAL OBSERVATIONS.

AS-BUILTS

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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
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
509	501887.3940	100451.2483	ALPROP2"_ASLS86-163_BK-16_L1
514	501292.3013	99935.5573	ALCAP2"/REBAR_ASLS86-163_TR-E
515	501306.6208	99993.7431	ALCAP2"/REBAR_ASLS86-163_ROW
517	501128.0658	99767.7344	ALCAP3.25"_USS10099_WCMC_C-10
518	501248.5850	99757.5373	ALCAP3.5"_ASLS86-163_WCMC_TR-E
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

Legend

Locations:
- P-1 Penetrometer (P)
- TH-1 Test Hole (TH)
- TP Test Pile (TP)

Reference Specifications, Appendix C.

DESIGNED BY: K. Miller
CHECKED BY: J. Beedle
DRAWN BY: C. Fuman

STATE OF ALASKA
49TH
Timothy Reed
No. 10613
REGISTERED PROFESSIONAL LAND SURVEYOR
3/24/06

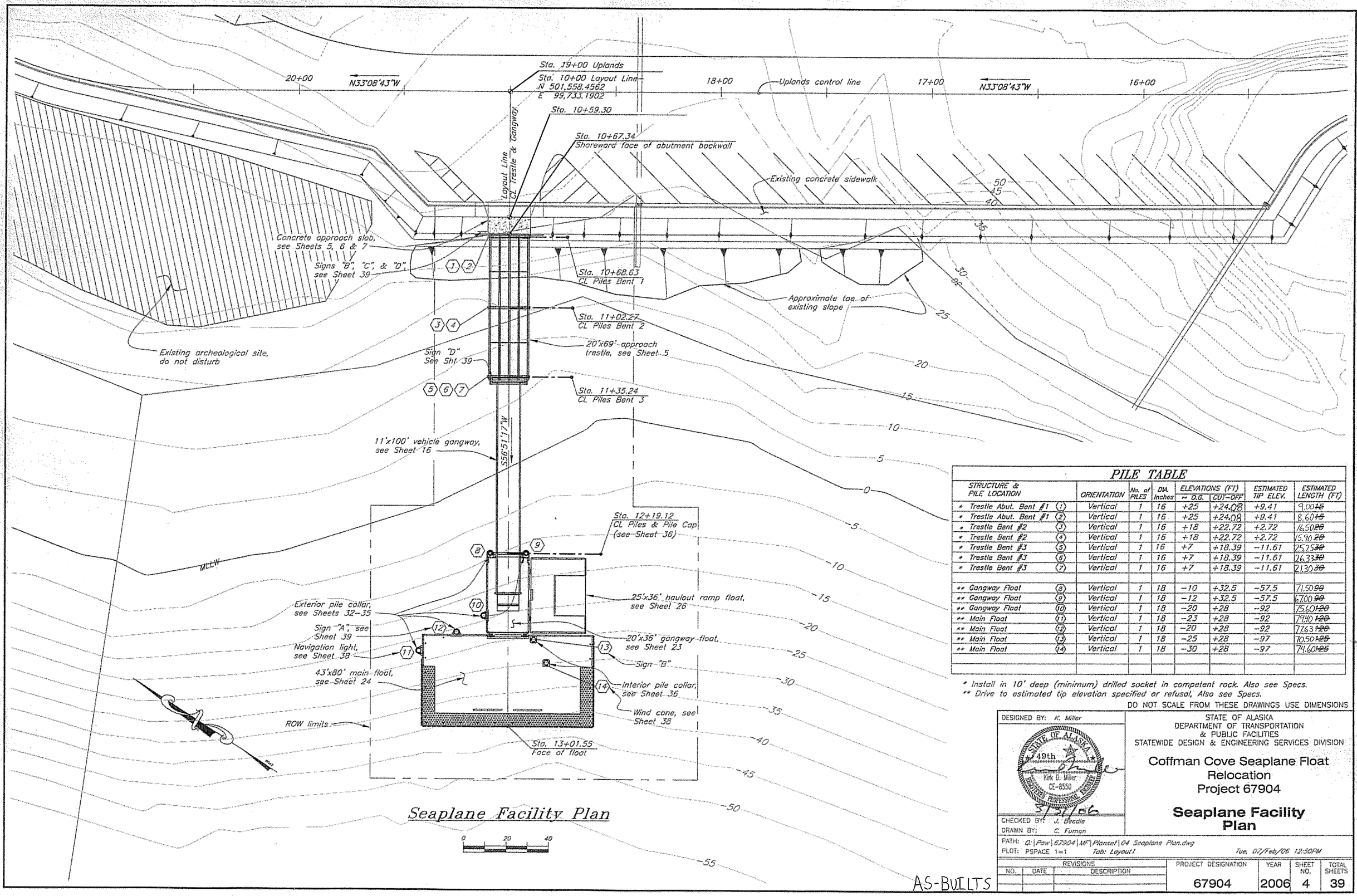
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
& PUBLIC FACILITIES
STATEWIDE DESIGN & ENGINEERING SERVICES DIVISION

Coffman Cove Seaplane Float Relocation
Project 67904

Site & Survey Control Plan

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REVISIONS NO.	DATE	DESCRIPTION	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			67904	2006	3	39



Seaplane Facility Plan

PILE TABLE

STRUCTURE & PILE LOCATION		ORIENTATION	No. of PILES	DIA. Inches	ELEVATIONS (FT) ~ G.G.	ELEVATIONS (FT) CUT-OFF	ESTIMATED TIP ELEV.	ESTIMATED LENGTH (FT)
* Trestle Abut. Bent #1	(1)	Vertical	1	16	+25	+24.08	+9.41	9.00~~15~~
* Trestle Abut. Bent #1	(2)	Vertical	1	16	+25	+24.08	+9.41	8.60~~15~~
* Trestle Bent #2	(3)	Vertical	1	16	+18	+22.72	+2.72	16.50~~28~~
* Trestle Bent #2	(4)	Vertical	1	16	+18	+22.72	+2.72	15.70 ~~28~~
* Trestle Bent #3	(5)	Vertical	1	16	+7	+18.39	-11.61	25.25~~38~~
* Trestle Bent #3	(6)	Vertical	1	16	+7	+18.39	-11.61	26.33~~38~~
* Trestle Bent #3	(7)	Vertical	1	16	+7	+18.39	-11.61	21.30~~38~~
** Gangway Float	(8)	Vertical	1	18	-10	+32.5	-57.5	71.50~~98~~
** Gangway Float	(9)	Vertical	1	18	-12	+32.5	-57.5	67.00 ~~98~~
** Gangway Float	(10)	Vertical	1	18	-20	+28	-92	75.60~~120~~
** Main Float	(11)	Vertical	1	18	-23	+28	-92	71.40 ~~120~~
** Main Float	(12)	Vertical	1	18	-20	+28	-92	77.63 ~~120~~
** Main Float	(13)	Vertical	1	18	-25	+28	-97	70.50~~125~~
** Main Float	(14)	Vertical	1	18	-30	+28	-97	74.60~~125~~

* Install in 10' deep (minimum) drilled socket in competent rock. Also see Specs.
** Drive to estimated tip elevation specified or refusal, Also see Specs.

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

AS-BUILTS

DESIGNED BY: K. Miller
CHECKED BY: J. Goedle
DRAWN BY: C. Furman

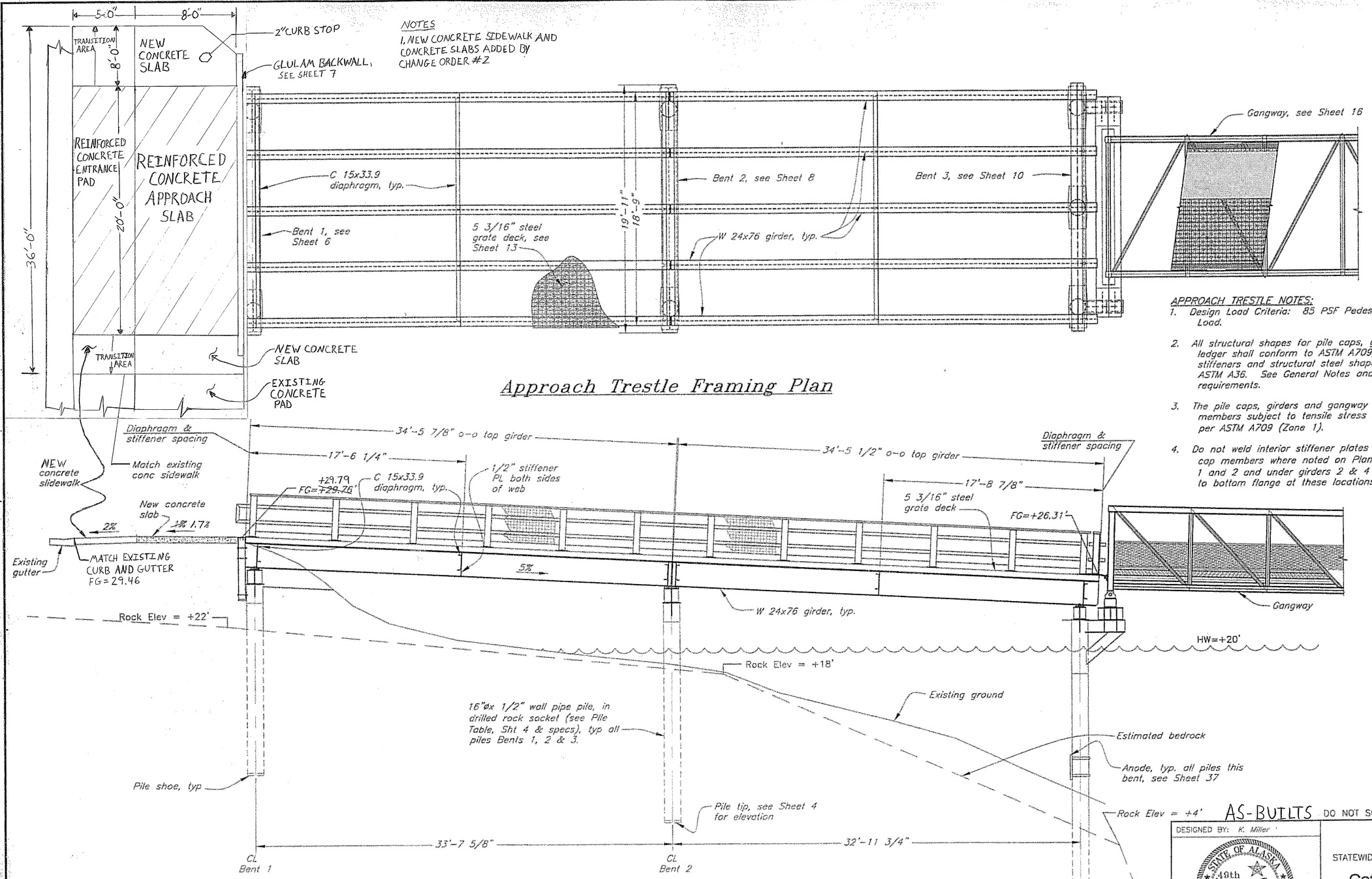
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STATEWIDE DESIGN & ENGINEERING SERVICES DIVISION

Coffman Cove Seaplane Float
Relocation
Project 67904

Seaplane Facility Plan

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REVISIONS NO.	DATE	DESCRIPTION	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			67904	2006	4	39



APPROACH TRESTLE NOTES:

1. Design Load Criteria: 85 PSF Pedestrian Live Load. AASHTO H15 Vehicle Load.
2. All structural shapes for pile caps, girders, gangway support beams and ledger shall conform to ASTM A709, Grade 36. Miscellaneous plates, stiffeners and structural steel shapes for cross braces shall conform to ASTM A36. See General Notes and Specifications for other material requirements.
3. The pile caps, girders and gangway support beams are considered main members subject to tensile stress and require Charpy Impact Testing per ASTM A709 (Zone 1).
4. Do not weld interior stiffener plates to surface of bottom flange on pile cap members where noted on Plans (under girders 2, 3 & 4 for Bents 1 and 2 and under girders 2 & 4 on Bent 3). Fit stiffener plates tight to bottom flange at these locations.

Notes

1. Rock & existing ground elevations shown are approx only. Actual elevations may vary.
2. Install all trestle support piles in drilled rock sockets. Sockets shall be a minimum of 10-feet in competent rock. Also see Specifications.

AS-BUILTS DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

DESIGNED BY: K. Miller
CHECKED BY: J. Beedle
DRAWN BY: C. Furman

STATE OF ALASKA
49th
Kirk D. Miller
CE-8559
REGISTERED PROFESSIONAL ENGINEER
3/31/06

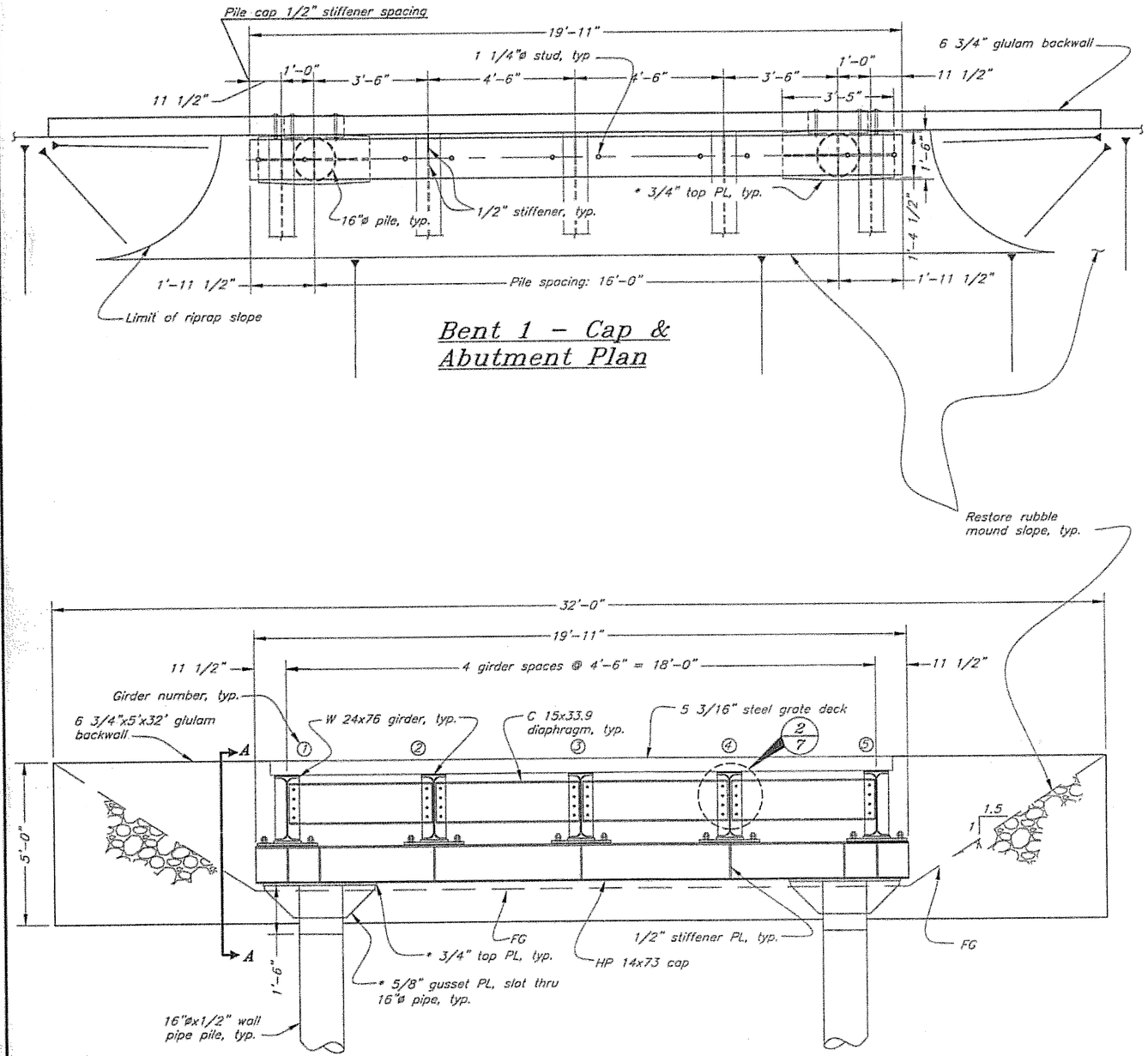
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
STATEWIDE DESIGN & ENGINEERING SERVICES DIVISION

Coffman Cove Seaplane Float Relocation
Project 67904

Approach Trestle Plan & Elevation

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Wed, 29/Mar/06 10:27AM

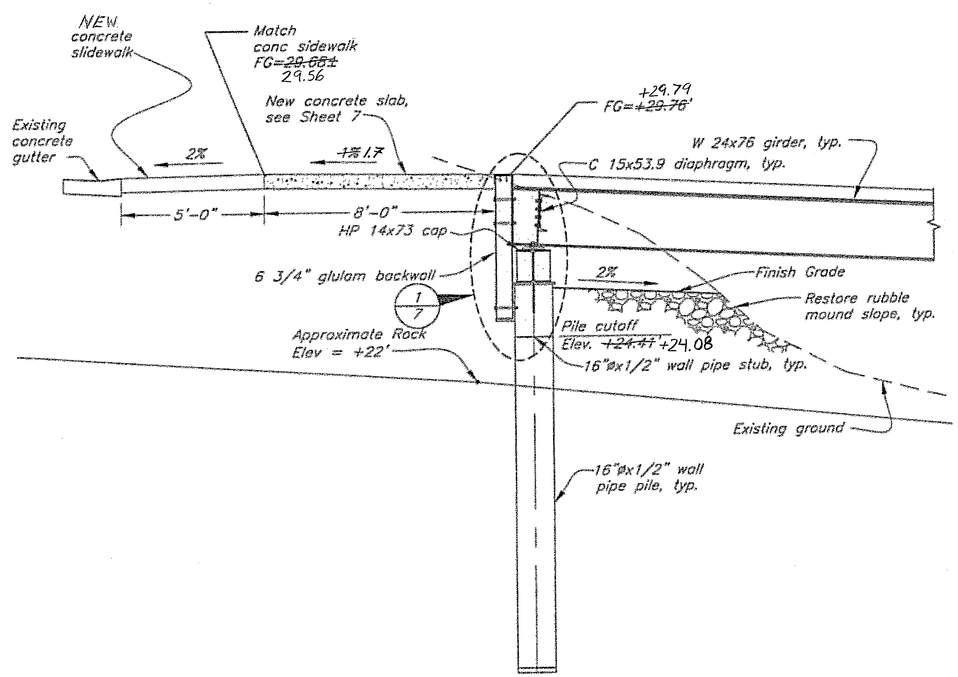
REVISIONS NO.	DATE	DESCRIPTION	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			67904	2006	5	39



Bent 1 – Cap & Abutment Plan

Bent 1 – Elevation
(looking shoreward)

* Note: See Sheet 11 for pile cap details – similar



Section A–A

AS-BUILTS

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

DESIGNED BY: K. Miller
CHECKED BY: J. Bendle
DRAWN BY: C. Fuman/K. Miller

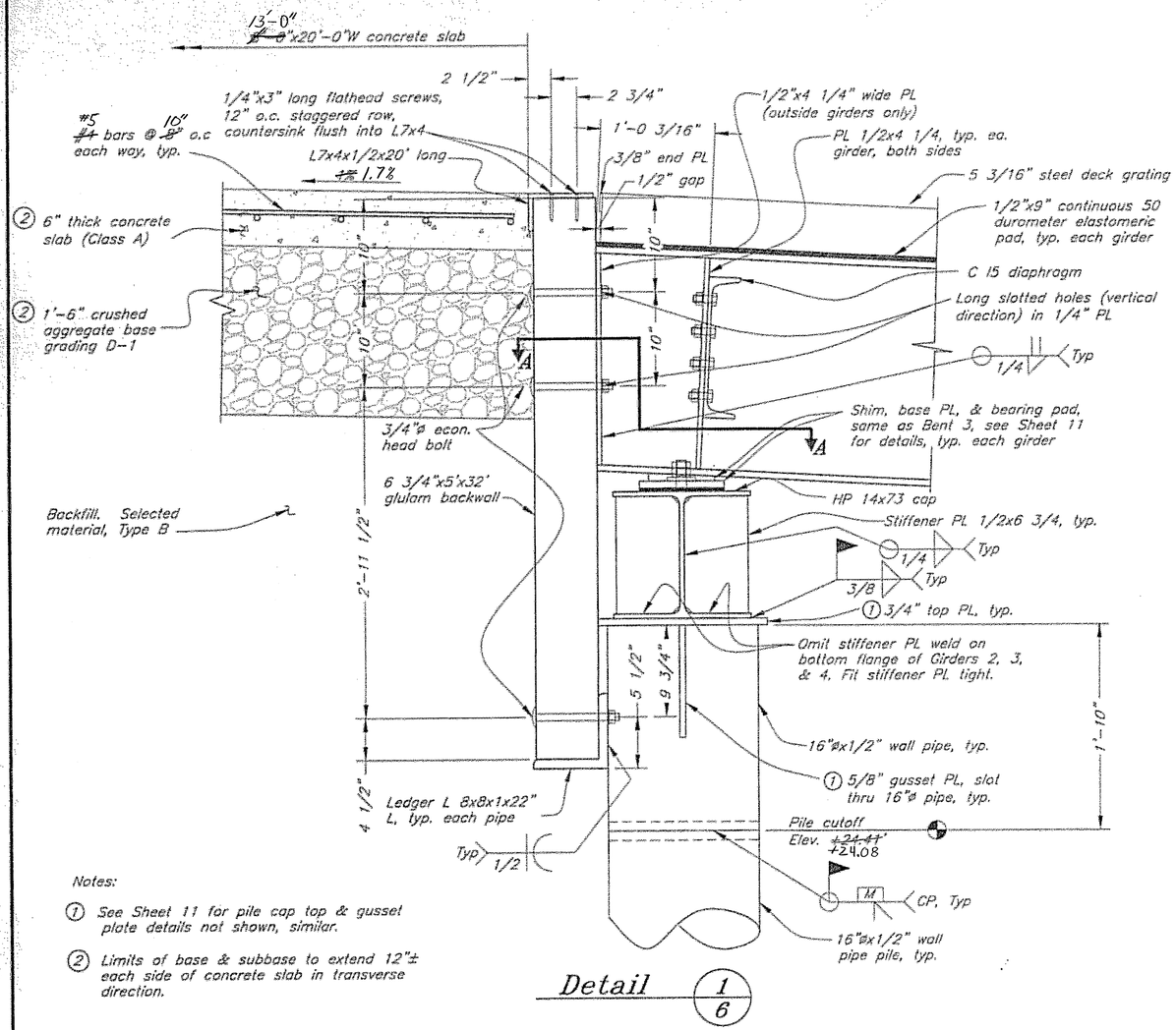
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
STATEWIDE DESIGN & ENGINEERING SERVICES DIVISION

Coffman Cove Seaplane Float Relocation
Project 67904

Approach Trestle Bent 1

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PLOT: PSPACE 1=1 Tab: Bent 1
Tue, 07/Feb/06 02:48PM

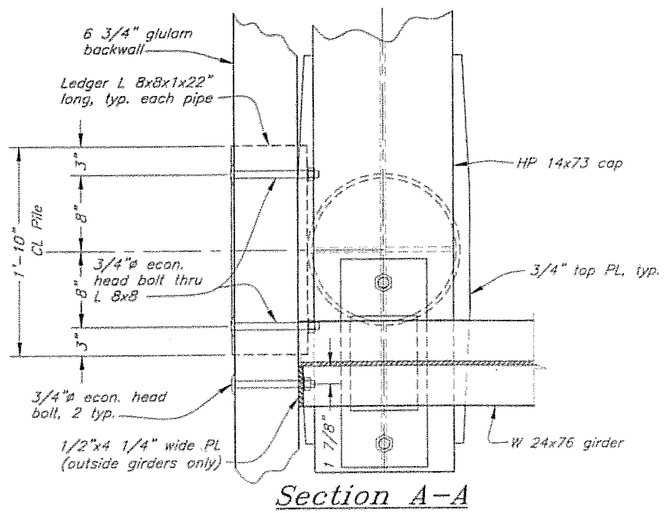
REVISIONS NO.	DATE	DESCRIPTION	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			67904	2006	6	39



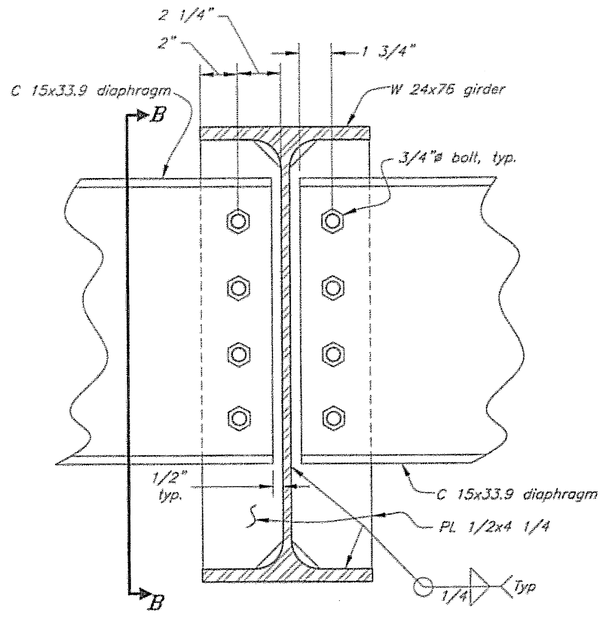
Notes:

1. See Sheet 11 for pile cap top & gusset plate details not shown, similar.
2. Limits of base & subbase to extend 12"± each side of concrete slab in transverse direction.

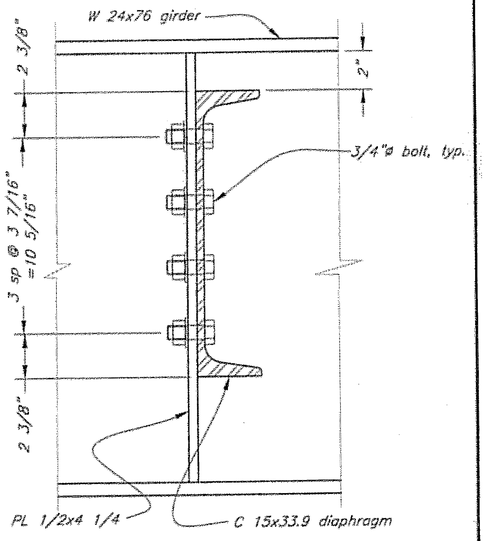
Detail 1/6



Section A-A



Typ. Diaphragm Connection Detail 2/6



Section B-B

AS-BUILTS DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

DESIGNED BY: K. Miller
CHECKED BY: J. Beadle
DRAWN BY: C. Fuman/K. Miller

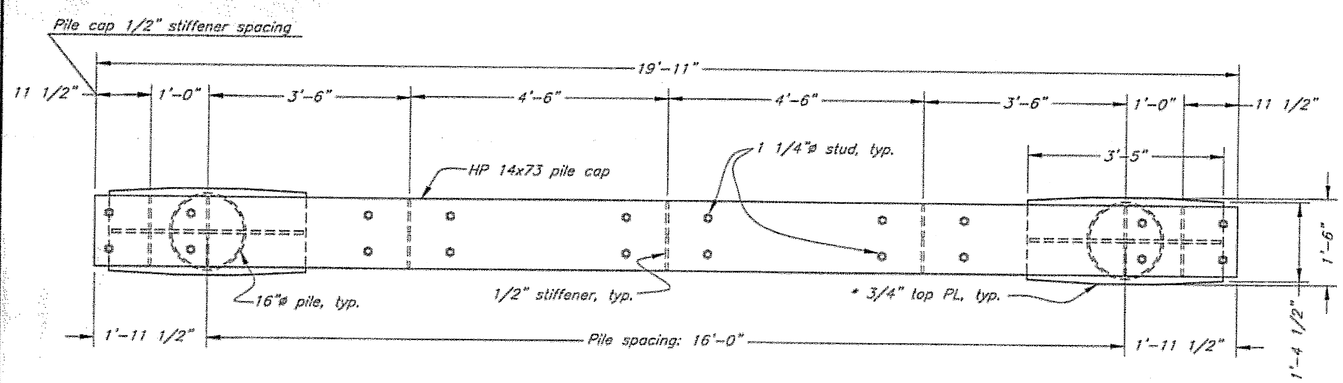
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
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Coffman Cove Seaplane Float Relocation
Project 67904

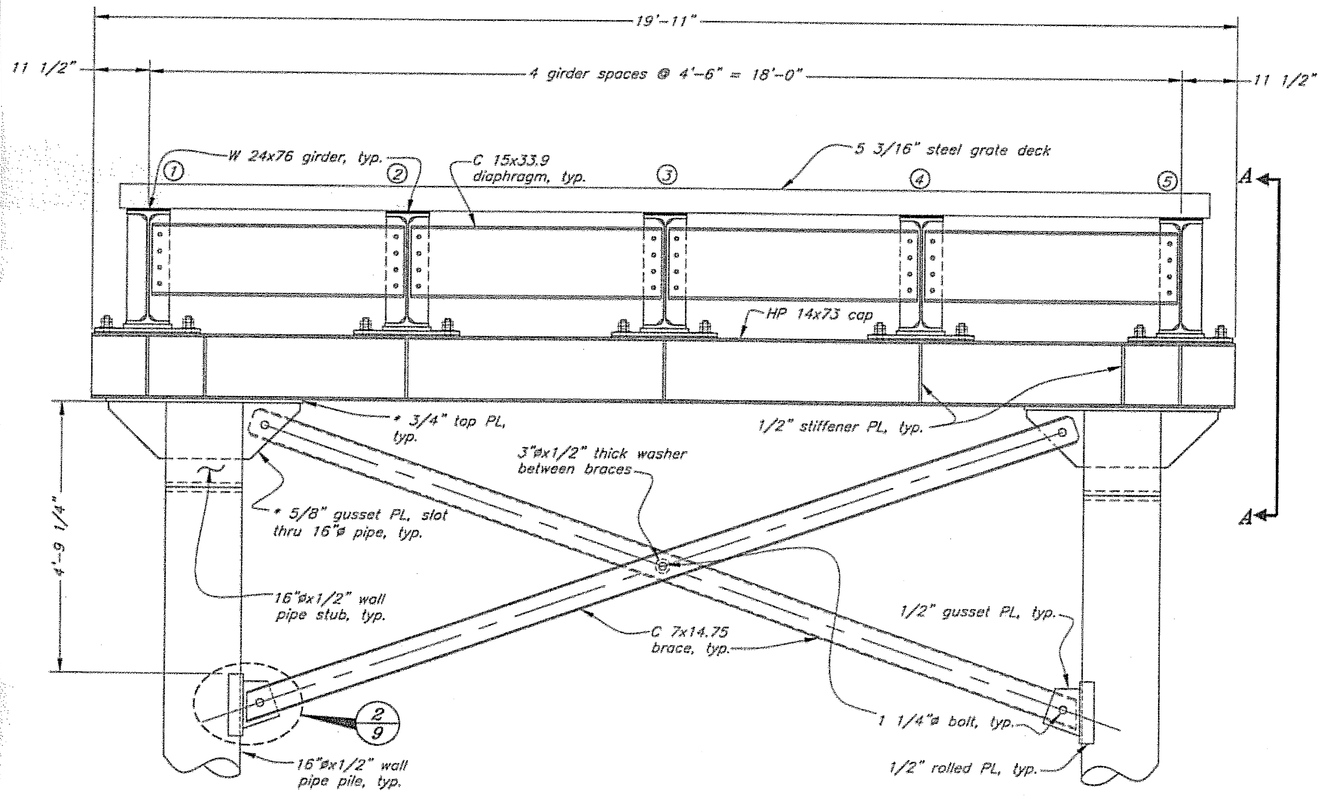
Approach Trestle Bent 1 Details

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Wed, 01/Mar/06 12:06PM

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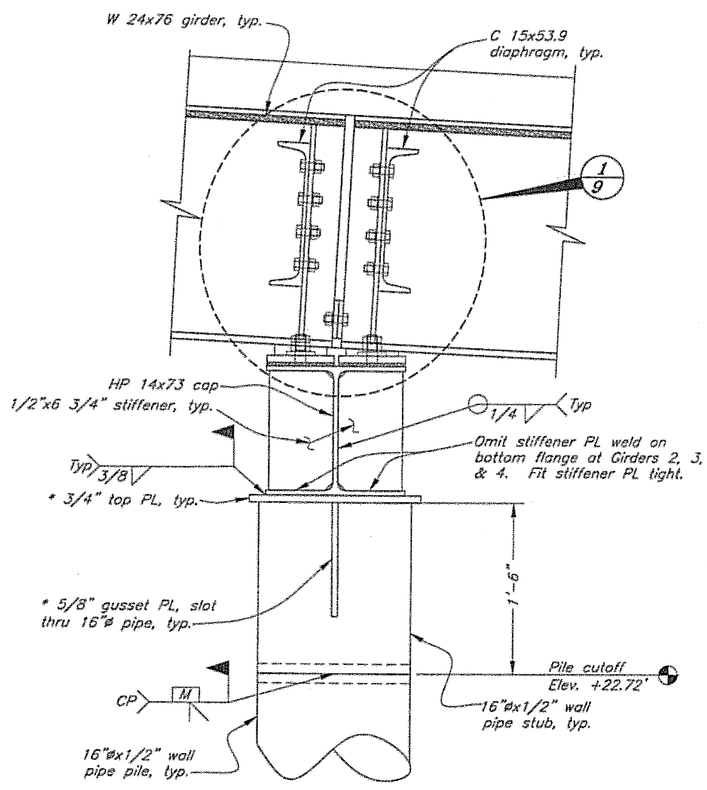


Bent 2 - Cap Plan



Bent 2 Elevation (looking seaward)

* Note: See Sheet 11 for pile cap top & gusset plate details not shown, similar



Section A-A

AS-BUILTS DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

DESIGNED BY: K. Miller
DRAWN BY: C. Fuman/K. Miller
CHECKED BY: J. Bladle

STATE OF ALASKA
49th
Kirk D. Miller
CE-8550
REGISTERED PROFESSIONAL ENGINEER
3/21/06

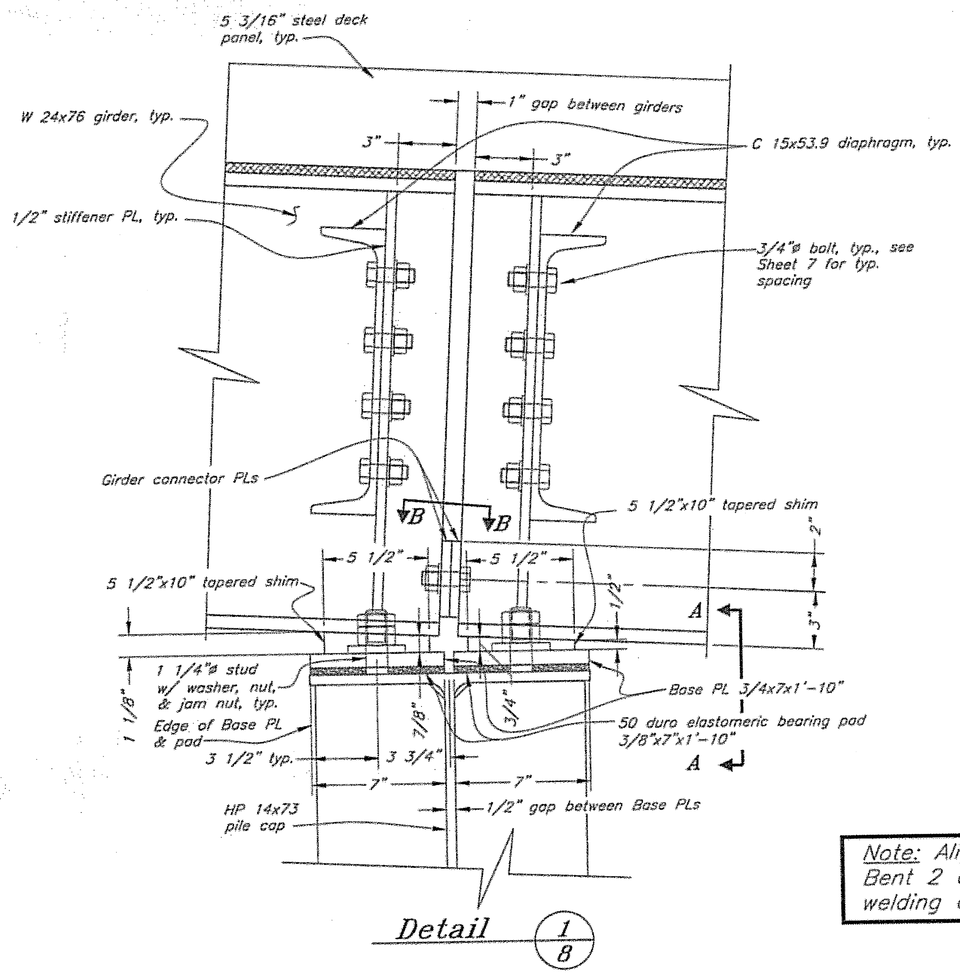
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
STATEWIDE DESIGN & ENGINEERING SERVICES DIVISION

Coffman Cove Seaplane Float Relocation
Project 67904

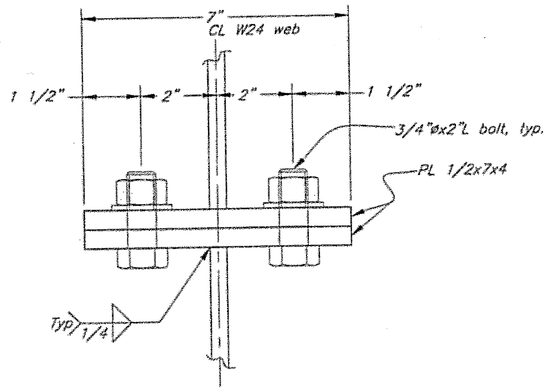
Approach Trestle Bent 2

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Tue, 07/Feb/06 04:41PM

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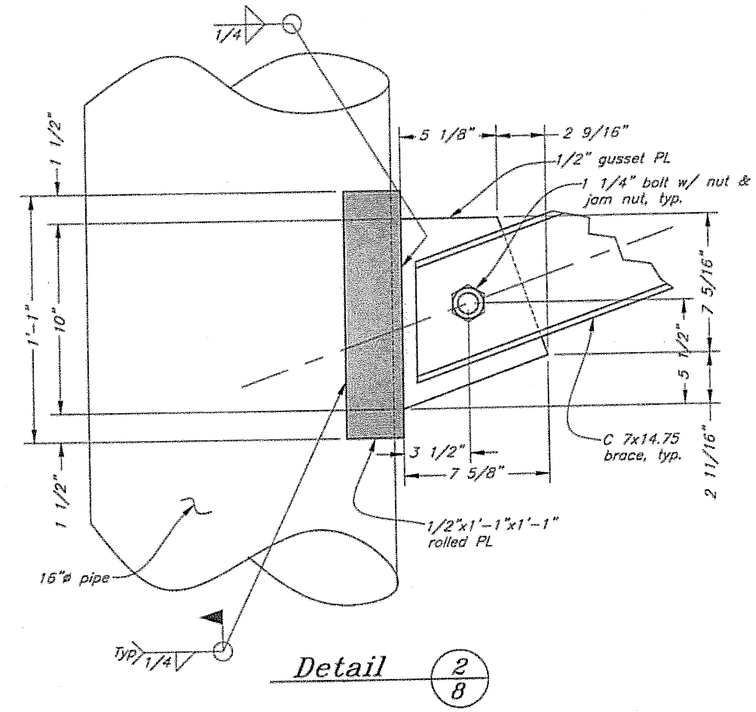


Detail 1/8

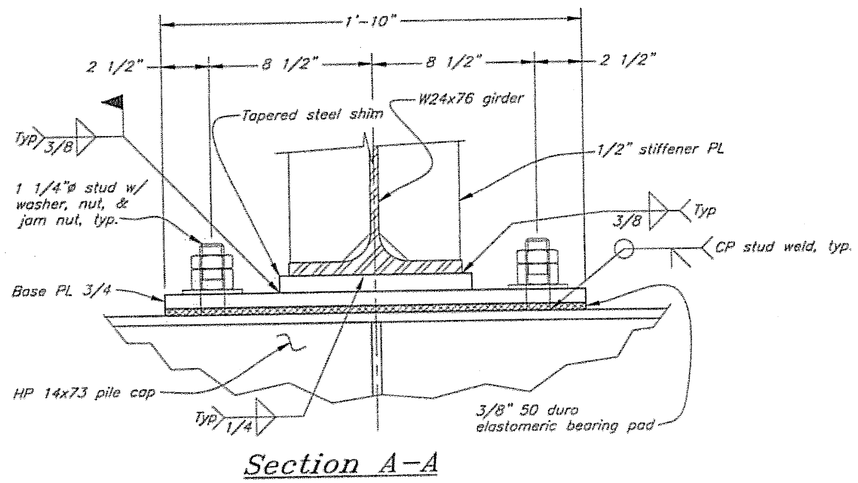


Section B-B

Note: Align and match girders on Bent 2 cap prior to fitting or field welding of girders to Bents 1 & 3.



Detail 2/8



Section A-A

AS-BUILTS DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

DESIGNED BY: K. Miller
CHECKED BY: J. Beedle
DRAWN BY: C. Fumon/K. Miller

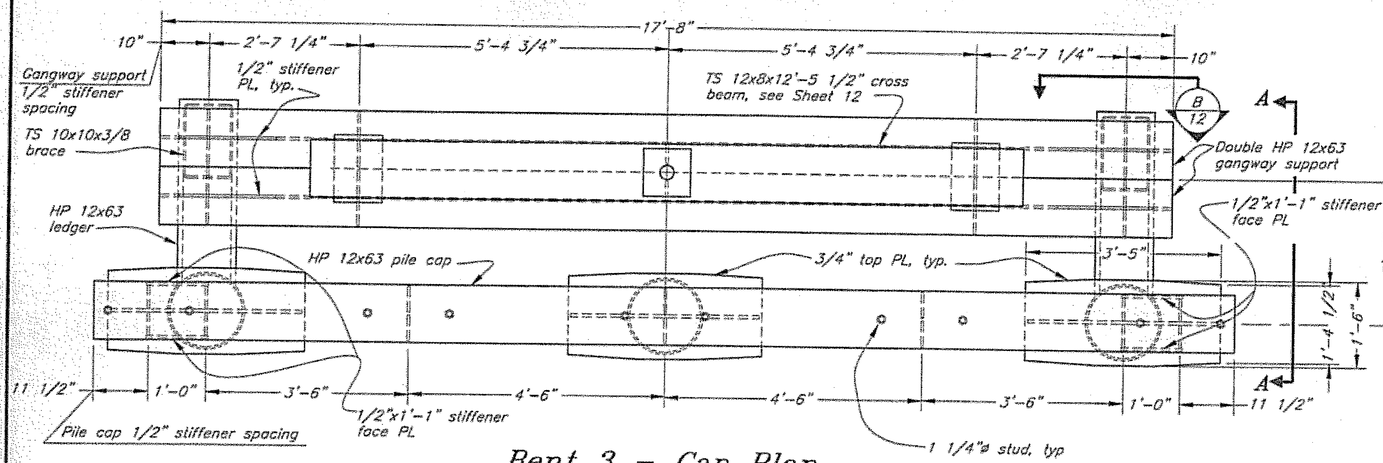
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
STATEWIDE DESIGN & ENGINEERING SERVICES DIVISION

Coffman Cove Seaplane Float Relocation
Project 67904

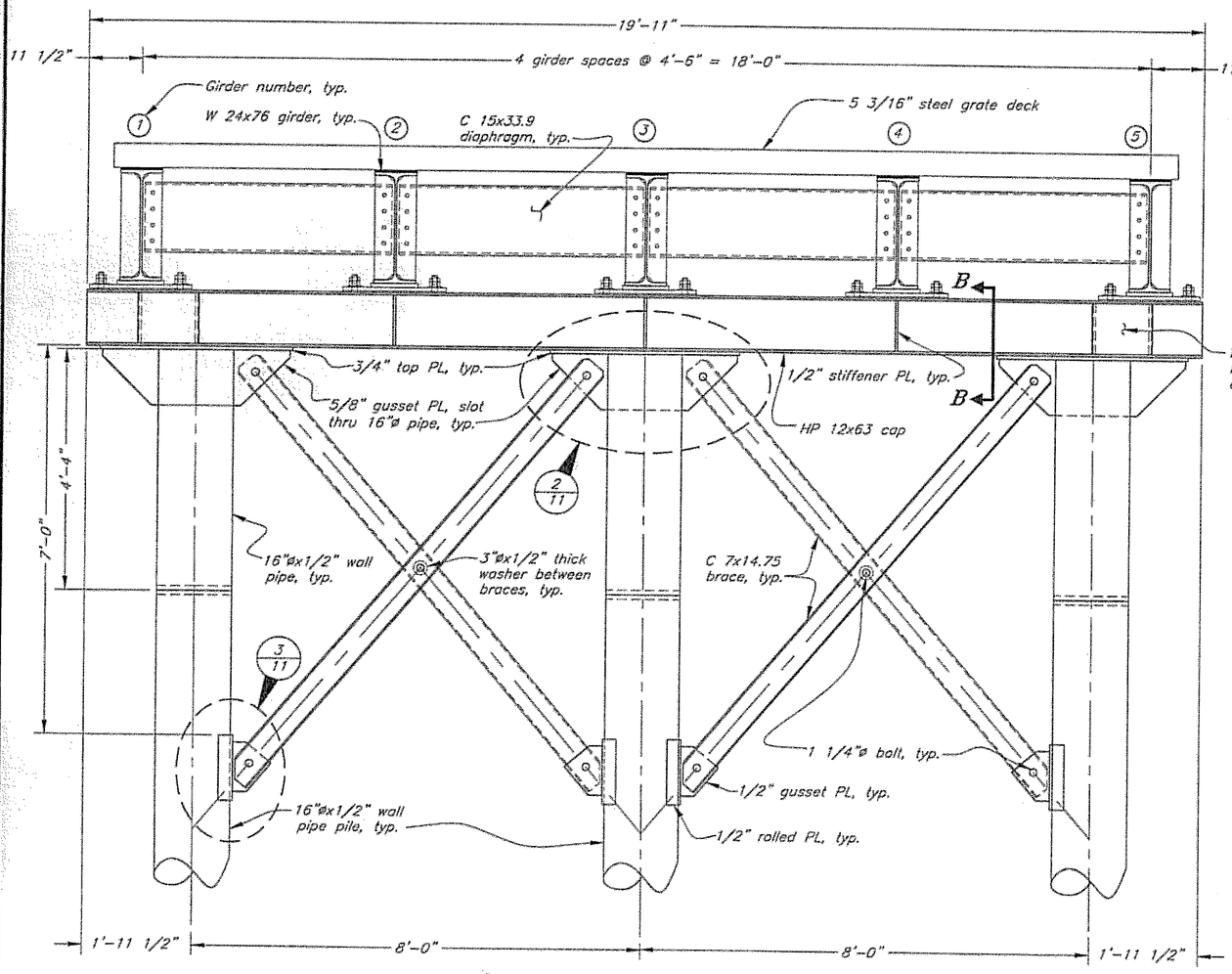
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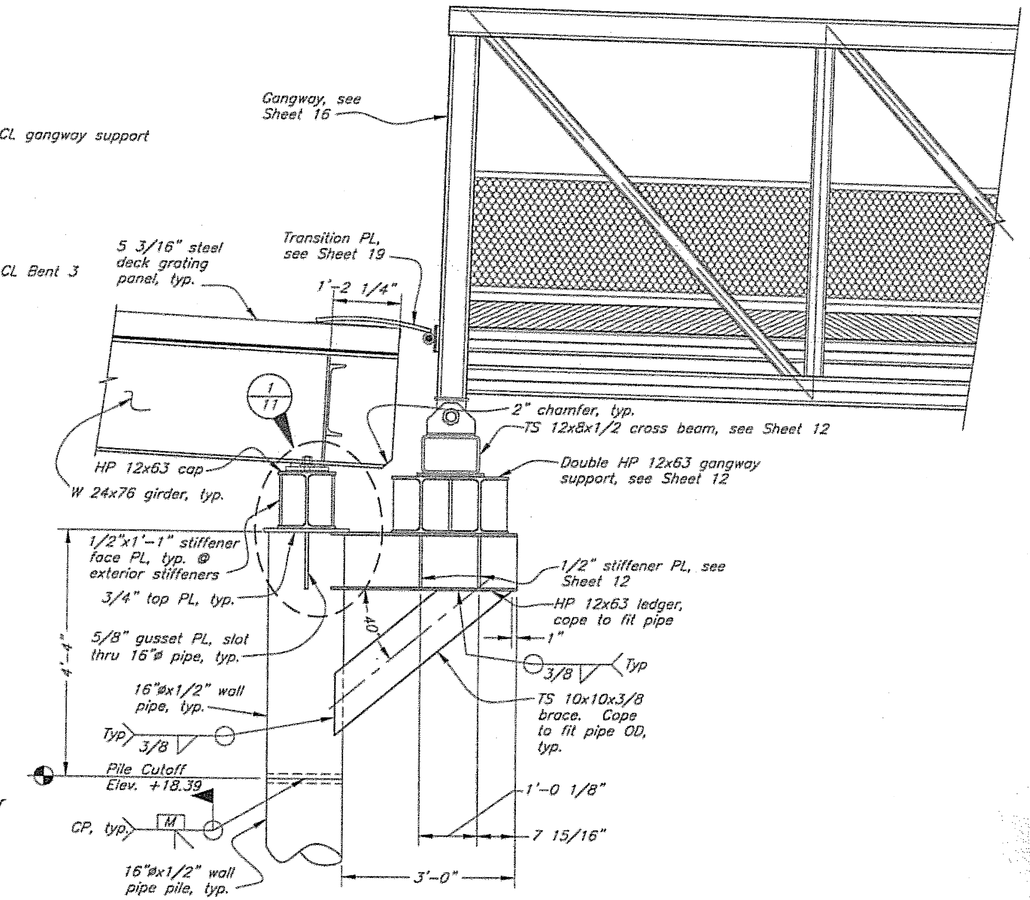
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			67904	2006	9	39



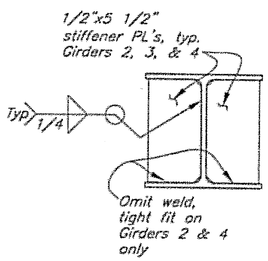
Bent 3 – Cap Plan



Bent 3 Elevation
(Looking Seaward)



Section A–A



Section B–B
Stiff. PL Detail – Girders 2, 3, & 4

AS-BUILTS DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

DESIGNED BY: K. Miller
DRAWN BY: C. Fuman/K. Miller
CHECKED BY: J. Biedle

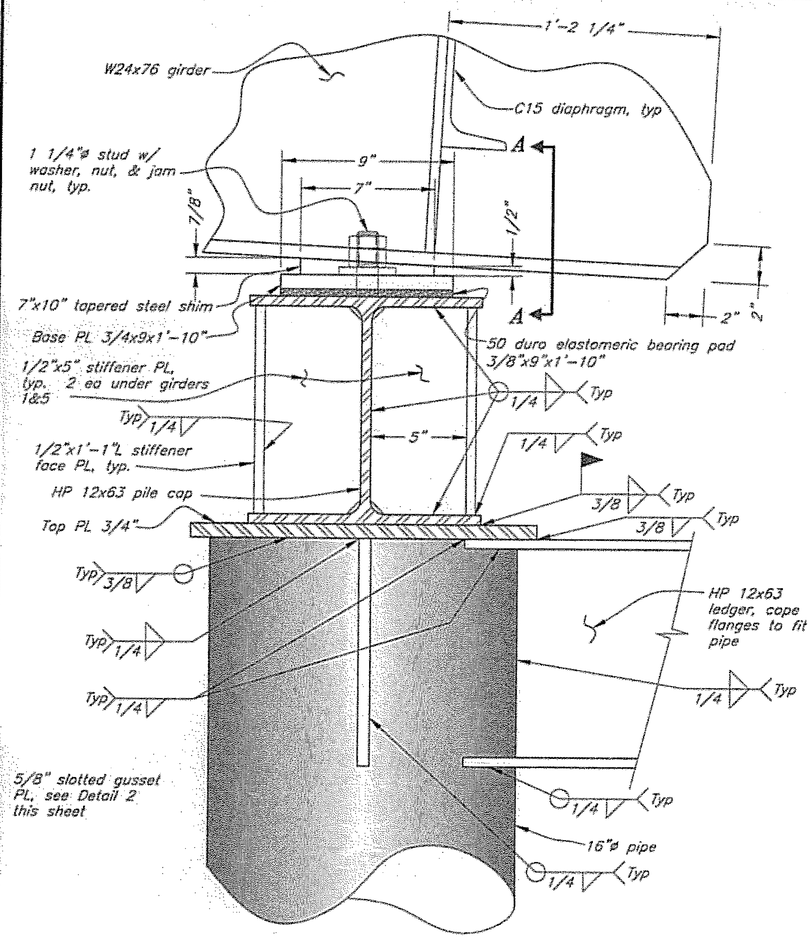
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
STATEWIDE DESIGN & ENGINEERING SERVICES DIVISION

Coffman Cove Seaplane Float Relocation
Project 67904

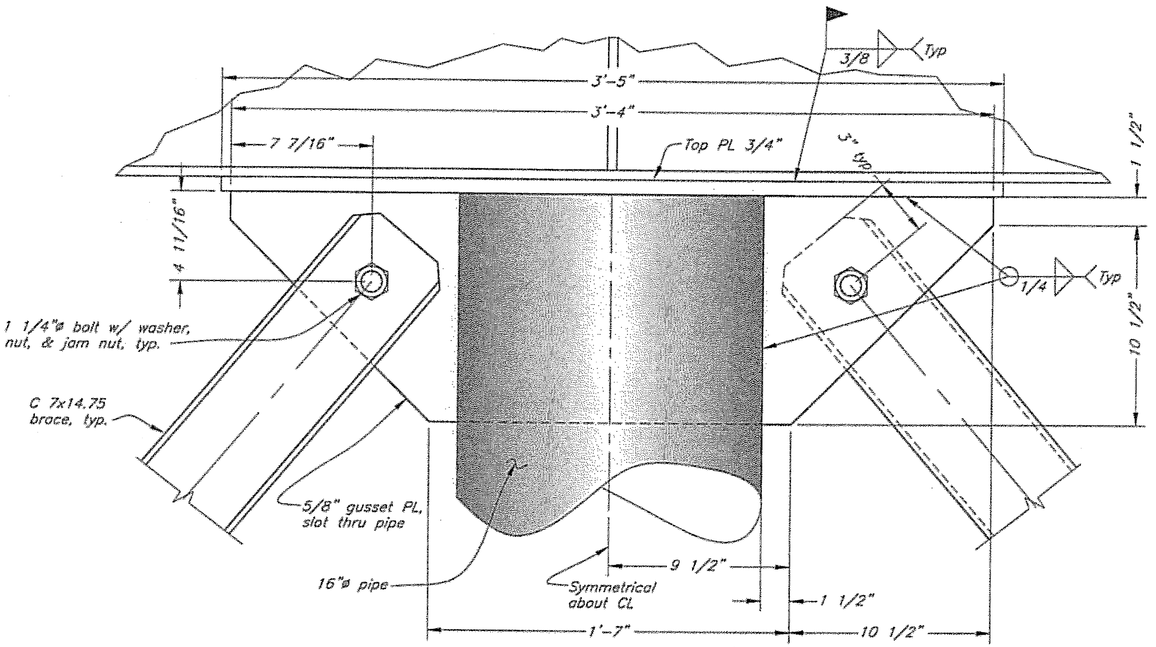
Approach Trestle Bent 3

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Tue, 07/Feb/06 02:32PM

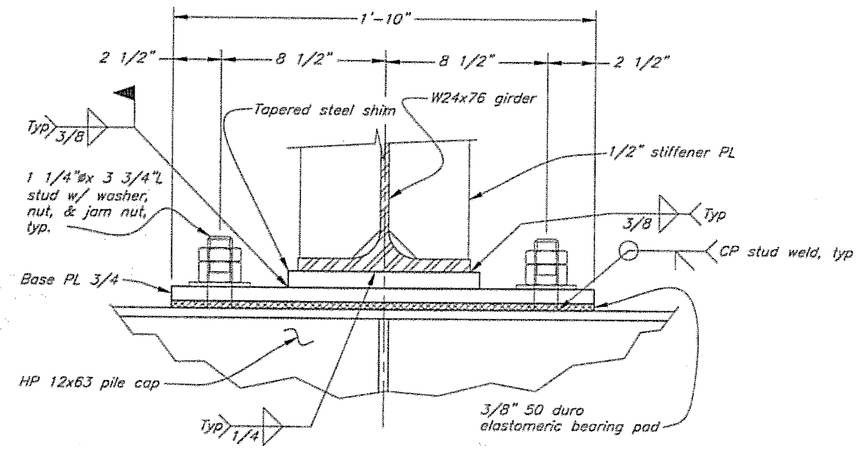
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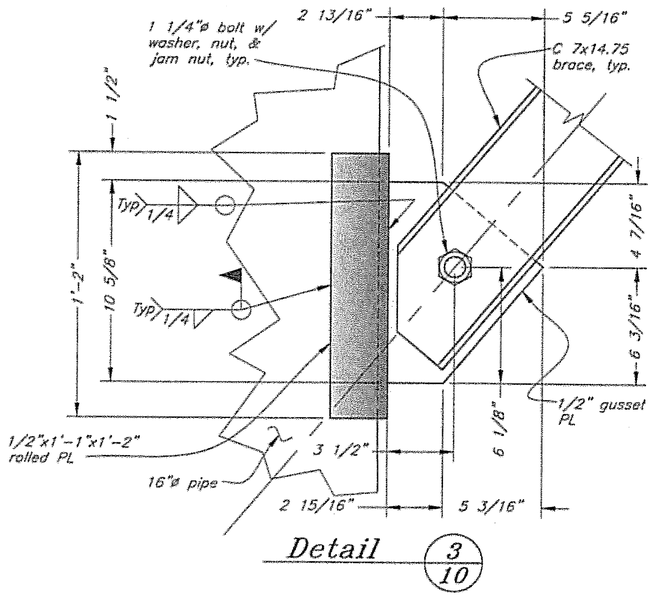
Detail 1/10



Detail 2/10



Section A-A



Detail 3/10

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DESIGNED BY: K. Miller
CHECKED BY: J. Beedle
DRAWN BY: C. Fuman/K. Miller

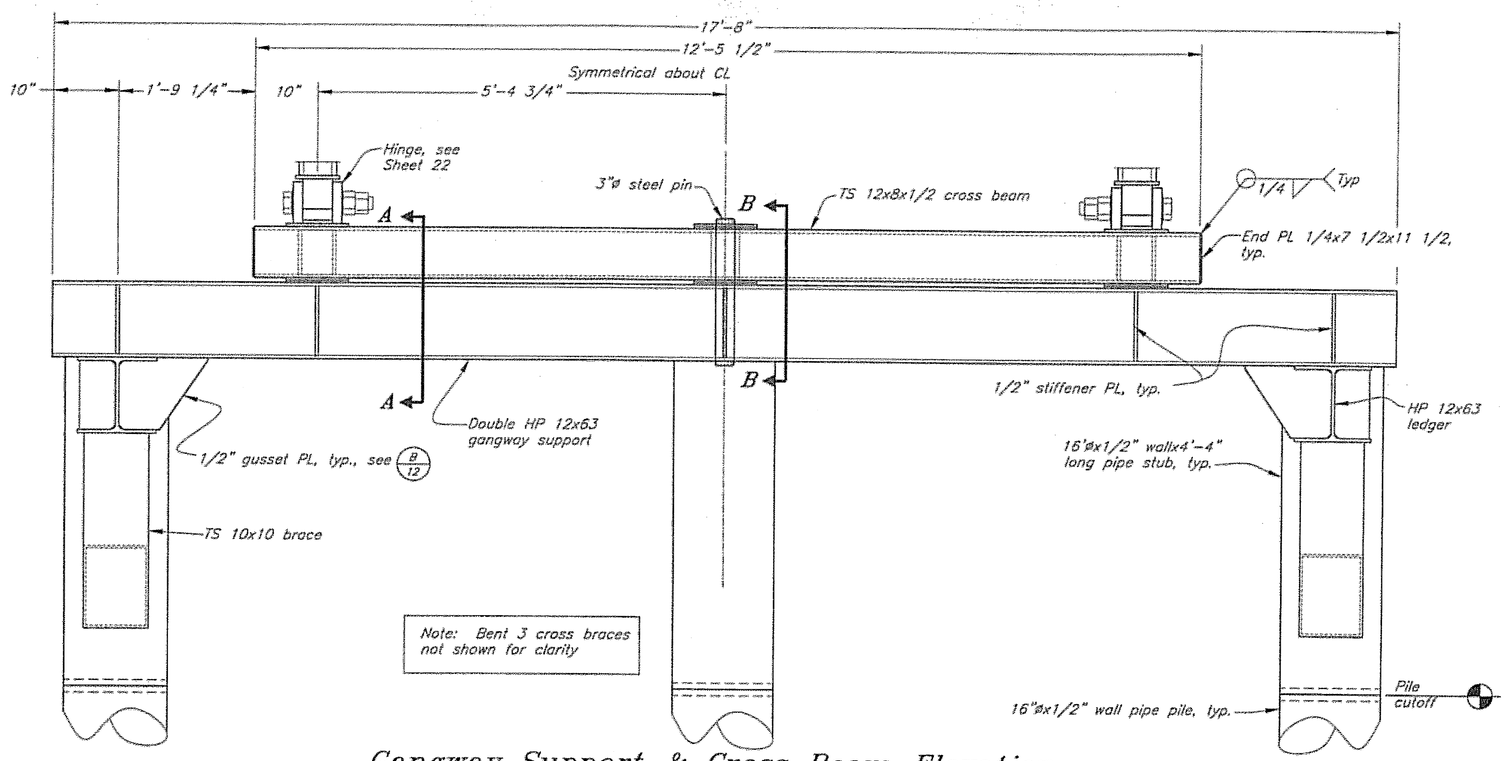
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
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STATEWIDE DESIGN & ENGINEERING SERVICES DIVISION

Coffman Cove Seaplane Float Relocation
Project 67904

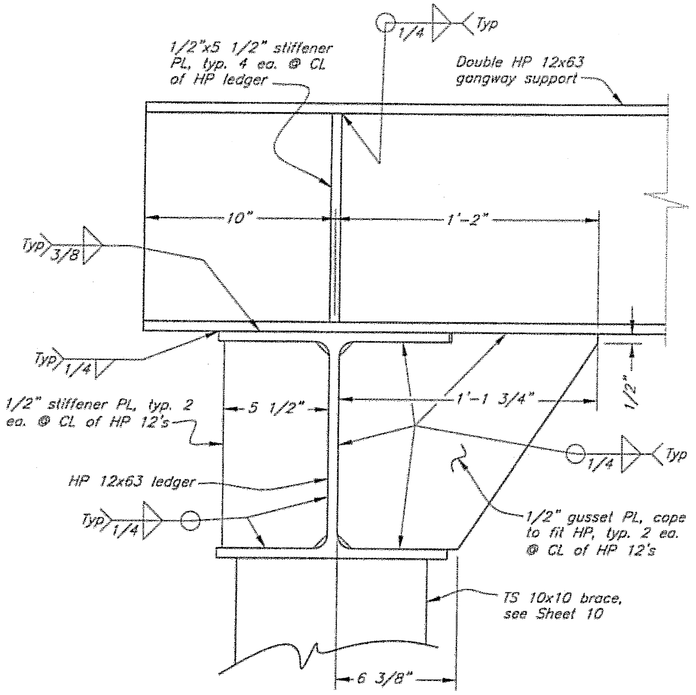
Approach Trestle Bent 3 Details

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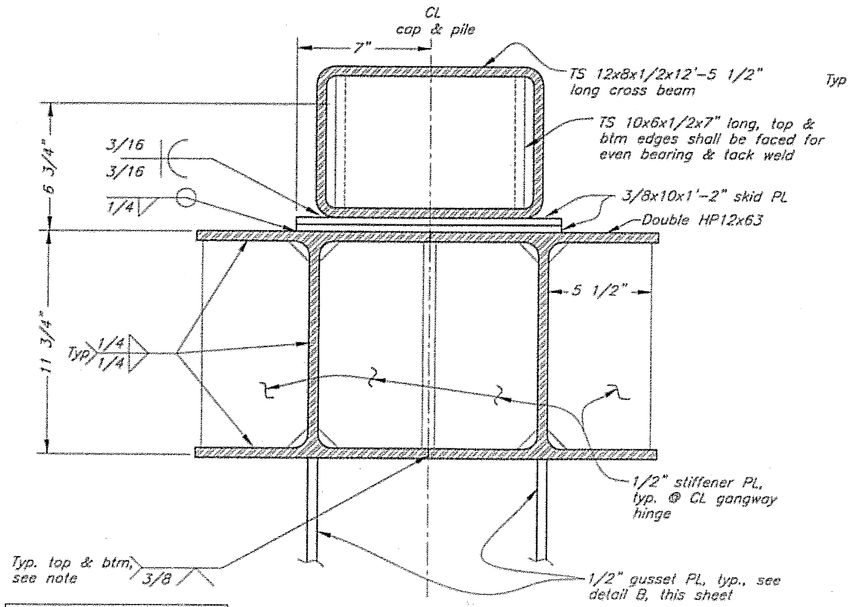
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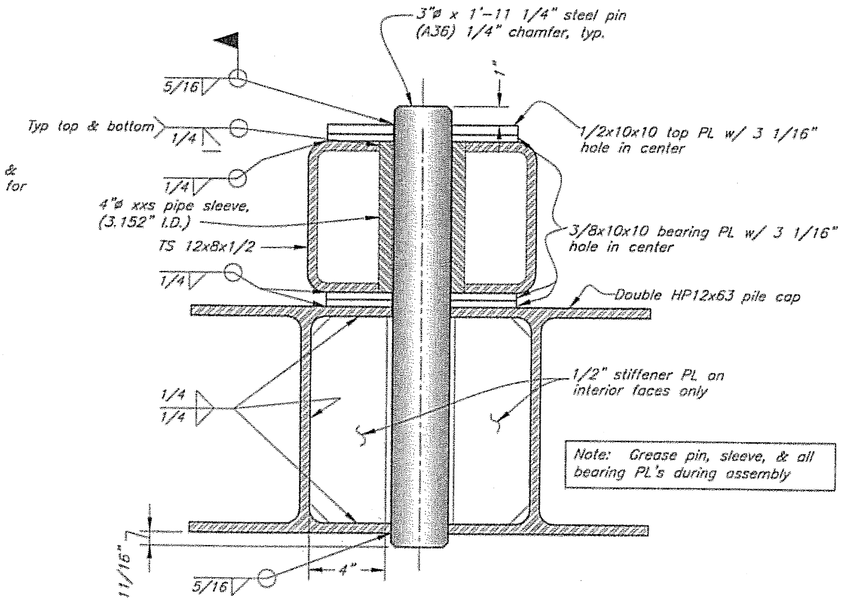
Gangway Support & Cross Beam Elevation
(looking shoreward)



Section B/10



Section A-A



Section B-B

AS-BUILTS DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

DESIGNED BY: K. Miller
DRAWN BY: Staff/C. Fuman
CHECKED BY: J. Beedle

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

STATE OF ALASKA 49th Kirk D. Miller CE-8550 REGISTERED PROFESSIONAL ENGINEER 5/31/06

Coffman Cove Seaplane Float Relocation
Project 67904

Bent 3
Gangway Support Details

PATH: Q:\Pow\67904\MF\Planset\12 Bent 3 Cross beam details.dwg
PLOT: PSPACE 1=1 Tab: Abut Details 3 Mon, 06/Feb/06 02:12PM

REVISIONS NO.	DATE	DESCRIPTION

PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
67904	2006	12	39

* = edge of panel
** = edge of panel w/o trim bar

End top rail
CL top rail splice, typ., see Sheet 15
CL top rail splice, typ.
CL top rail splice, typ.
End top rail

19'-6" | 18'-0" | 18'-0" | 12'-9 1/2"

6 1/8" | 6 1/16" | 6'-7 7/8" | 6'-4" | 7 railpost spaces @ 6'-0" = 42'-0" | 6'-4" | 5'-10" | 1'-3 15/16"

5'-9 15/16" | 4'-1 15/16" | 2'-5 15/16" | 6'-0" | 9 15/16" | 5'-1 15/16" | 3'-5 15/16" | 1'-9 15/16" | 5 15/16"

1/4" trim bar | 1/4" trim bar

Base PL 1/2x7x12, typ.
W 6x20 railpost, typ.
CL rail splice, typ. See sheet 15
A/14
1/15
Concrete filled walkway
Begin trestle @ shoreward face of backwall
7'-1 1/2"
5'-7" concrete fill
19'-0" o-o deck panel
18'-6 7/8"
67'-9" o-o wheel guard
CL wheel guard splice, typ see Sheet 15
37'-7 1/4" | 30'-1 3/4"
Gangway
Transition PL
Skid PL 1/4x2x14 1/2, 4 req'd, see Sheet 15 for layout
6 3/4"x6" glulam wheel guard
1/8" gap, typ.
5 3/16" thick x 7'-7/8" wide x 19'-0" long steel grate deck panel, typ.
7'-8" typ.
TS 4x3x1/4 rail, typ.
1/4" trim bar
7'-7 7/8" typ.
CL Panel
CL Panel, CL Bent 2, & CL traffic rail splice (for splice see detail Sheet 15)
1/4" trim bar
Note: Top 2x8 cedar rail not shown for clarity.
34'-6 3/16"
9 panels @ 7'-7 7/8" plus 8 gaps @ 1/8" and 1/4" trim PL's both ends = 69'-0 3/8"

Approach Trestle Deck Panel Layout

Welded wire mesh panel, see Sheet 14 typ.
1 5/16", typ
17'-1 1/2"
* 2x8 yellow cedar top rail, typ.
1 1/2"ø xs pipe handrail, typ. both sides
1/2"x3" wide PL, typ. @ CL of each rail post location U.O.N.
TS 4x3x1/4 traffic rail w/ 1/2"ø step bolt, typ.
W 6x20 railpost, typ
10"
5"
2'-11"
1'-3"
1'-3"
16'-8"
4'-0 1/2"
Concrete filled pedestrian walkway
6 3/4"x6" glulam wheel guard, typ.
1/2" chamfer, typ
5 3/16" steel grate decking
3'-6 1/2"
50 durometer elastomeric bearing pad 1/2"x9", continuous, typ.
W 24x76 girder, typ.
Grating clip assembly, see detail this sheet
19'-0" out to out grate deck

Typical Section
(looking seaward)

* Top rail shall be 2" net thickness. See specs.

Grating
Clip
Elevation
W 24x76 girder, typ.
Section

Grate Decking Clip Assembly
(2 per Girder per Panel)

7 3/16" | 3" | 2 1/8" | Typ
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
6" | 3" | 1"
15/16" | 7/8" | 9"
1 1/2øx9" long rod
3/4x6x7 3/16 PL
4" | 2" | 7 3/16"
Plan
Elevation

0" min., 1/8" max. gap
7 1/2" typ.

Typical Grating Joint

AS-BUILTS DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

DESIGNED BY: K. Miller
CHECKED BY: J. Beedle
DRAWN BY: C. Fuman

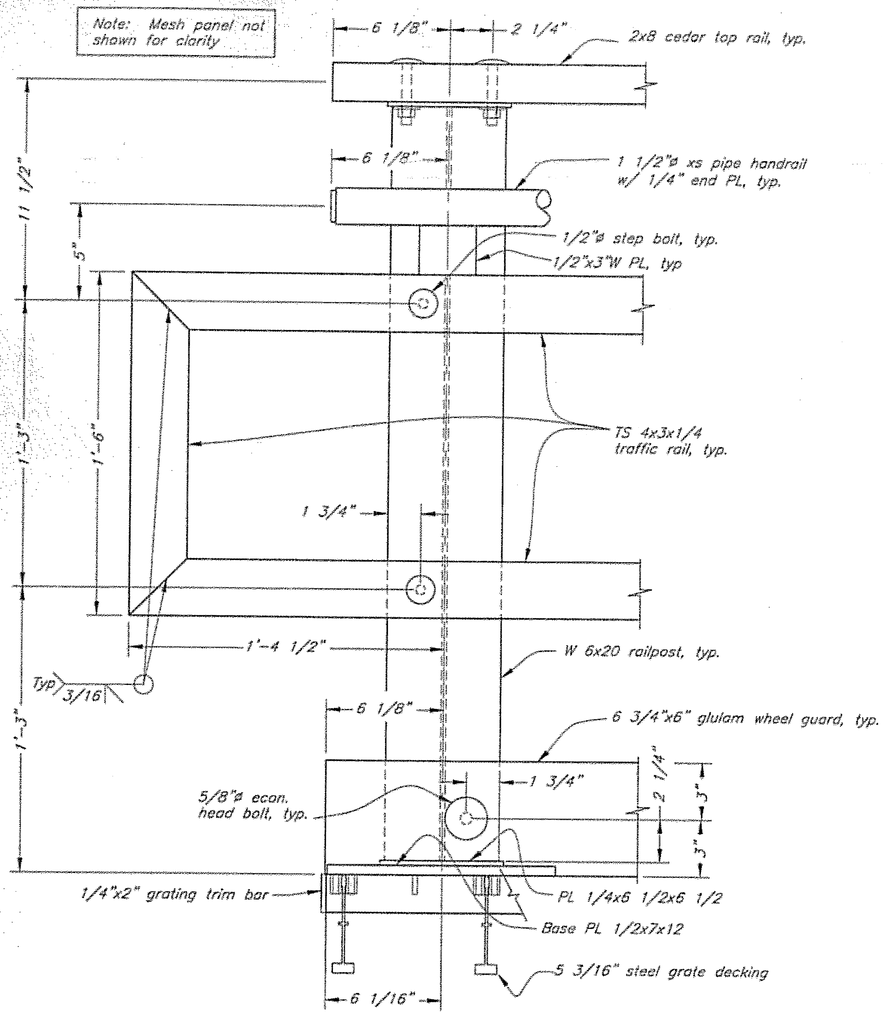
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
STATEWIDE DESIGN & ENGINEERING SERVICES DIVISION

Coffman Cove Seaplane Float Relocation
Project 67904

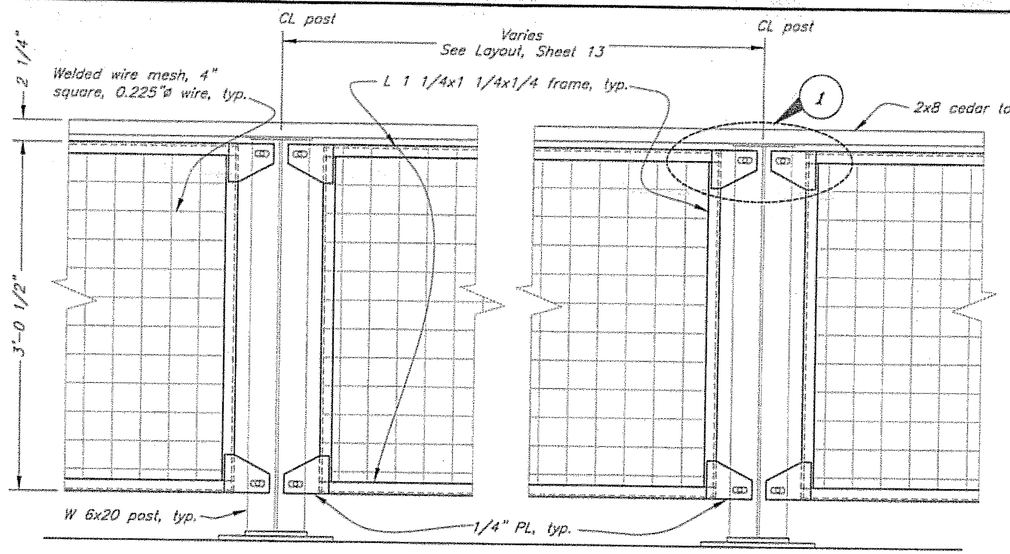
Approach Trestle Deck Layout

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PLOT: PSPACE 1=1 Tab: Layout1 Tue, 28/Feb/06 12:09PM

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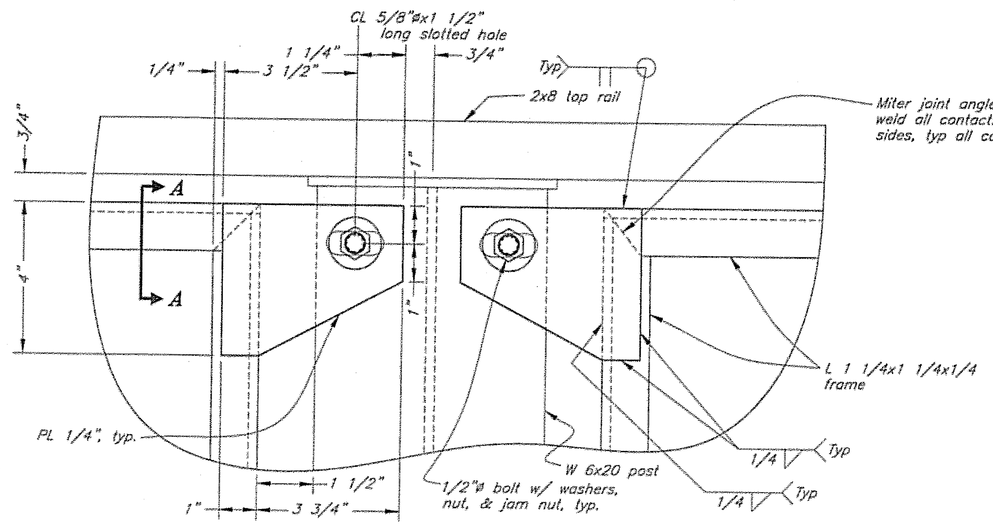


Section A / 13

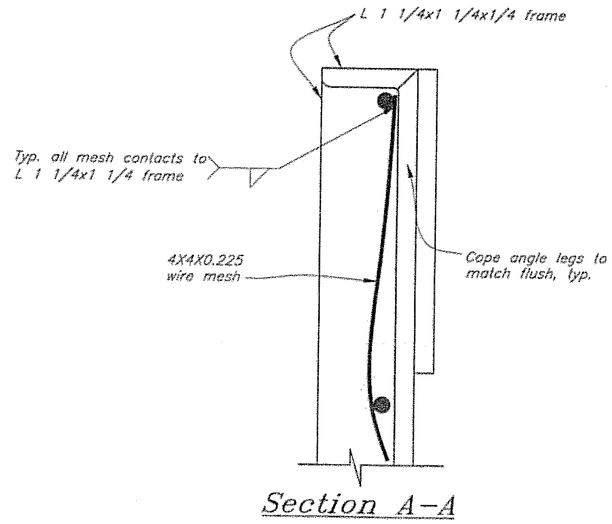


Typ Mesh Panel Elevation

(view from outside)



Detail 1



Section A-A

AS-BUILTS DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

DESIGNED BY: K. Miller
CHECKED BY: J. Beedle
DRAWN BY: C. Fuman

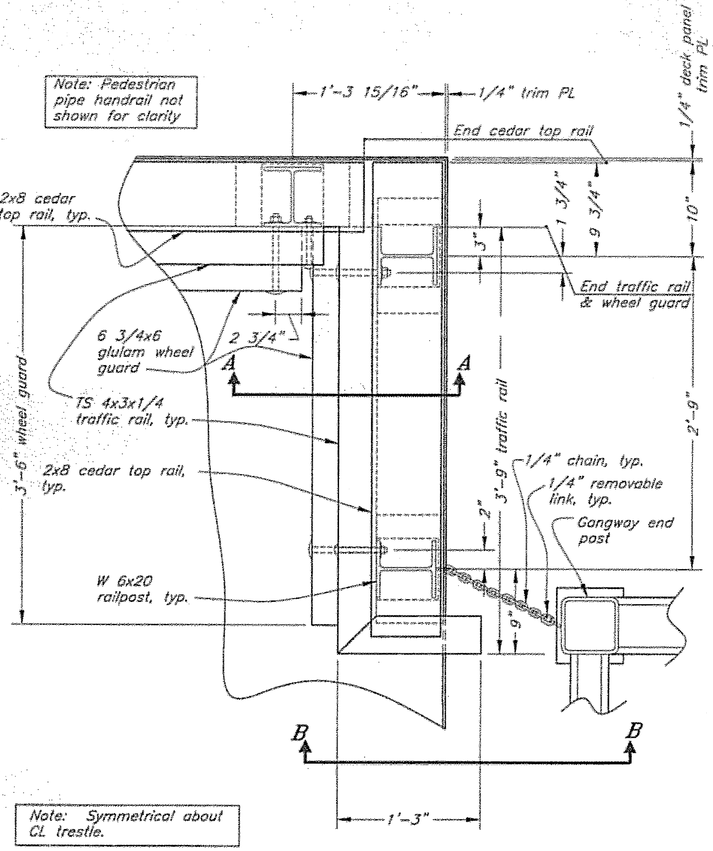
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
STATEWIDE DESIGN & ENGINEERING SERVICES DIVISION

Coffman Cove Seaplane Float Relocation
Project 67904

Approach Trestle Typical Guardrail Details 1

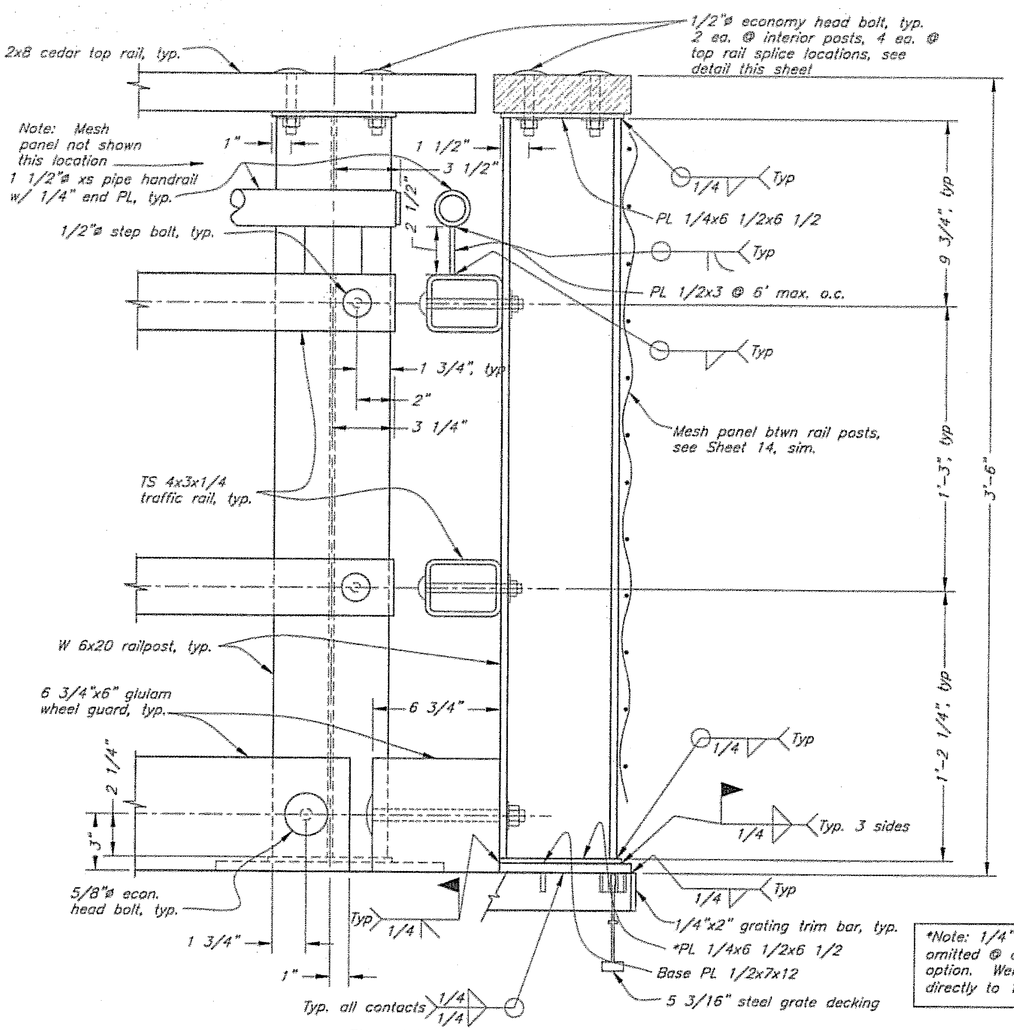
PATH: Q:\Pow\67904\MF\Planset\14 Trestle Rail Details 1.dwg
PLOT: PSPACE 1=1 Tab: Shoreward End Tue, 28/Feb/06 03:10PM

REVISIONS NO.	DATE	DESCRIPTION	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
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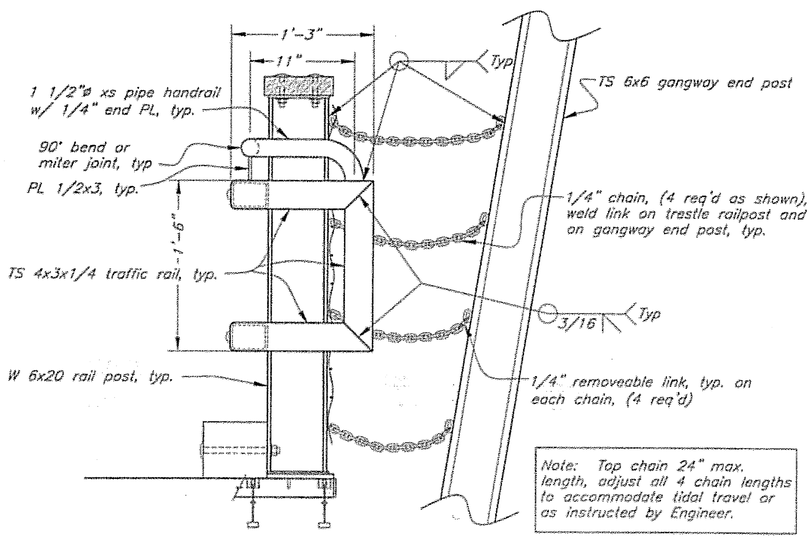
Note: Symmetrical about CL trestle.

Detail 1/15



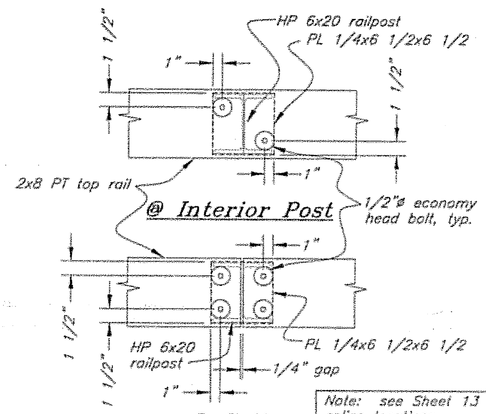
*Note: 1/4" PL may be omitted @ contractor's option. Weld W6x20 post directly to 1/2" base PL.

Section A-A



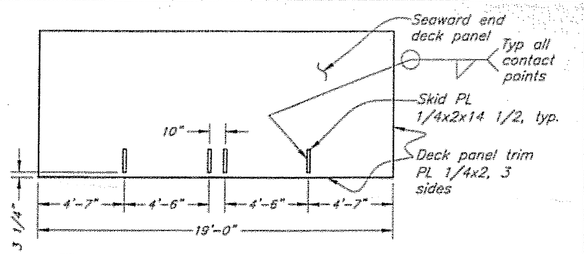
Note: Top chain 24" max. length, adjust all 4 chain lengths to accommodate tidal travel or as instructed by Engineer.

Section B-B

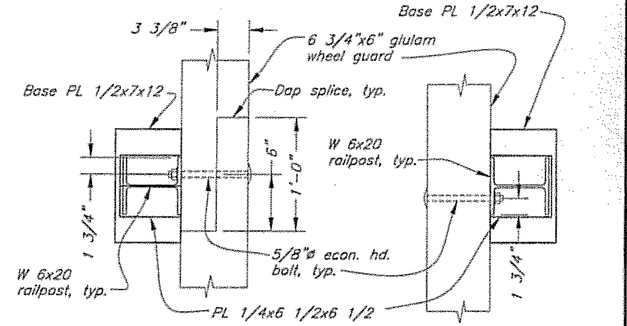


Note: see Sheet 13 for splice locations

Top Rail Connection - Plan



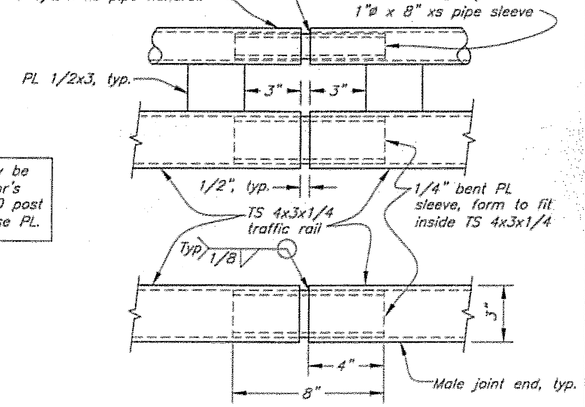
Transition PL Skid Layout



Plan @ Splice

Plan @ Interior

Wheel Guard Splice & Fastening Details



Typ. Rail Splice-Elevation

AS-BUILTS DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

DESIGNED BY: K. Miller
CHECKED BY: J. Beedle
DRAWN BY: C. Fuman

STATE OF ALASKA
Kirk D. Miller
CE-8550
49th
PROFESSIONAL ENGINEER
3/31/06

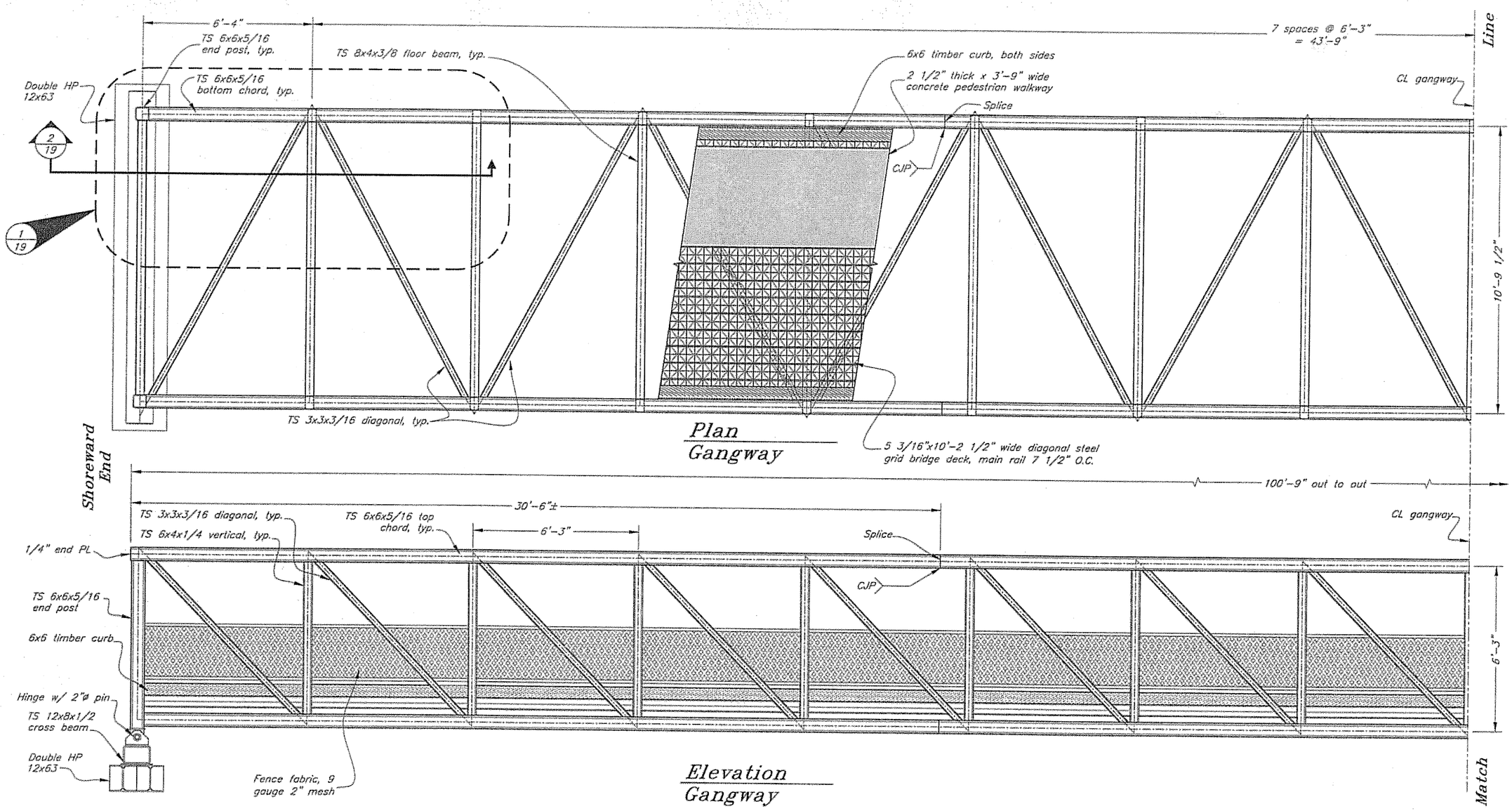
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
STATEWIDE DESIGN & ENGINEERING SERVICES DIVISION

Coffman Cove Seaplane Float Relocation
Project 67904

Approach Trestle Typical Guardrail Details 2

PATH: Q:\Pow\67904\MF\Planset\15 TrestleRail Details 2.dwg
PLOT: PSPACE 1=1 Tab: Seaward End Wed, 01/Mar/06 01:11PM

REVISIONS NO.	DATE	DESCRIPTION	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			67904	2006	15	39



Plan
Gangway

Elevation
Gangway

General Notes

1. Design basis is AASHTO Standard Specifications for Highway Bridges as modified by Guide Specifications for Design of Pedestrian Bridges. Design live pedestrian load is 85 psf (reduced to 65 psf where permitted by AASHTO) and live vehicle load is AASHTO H10 truck.
2. All steel pipe and structural tubing shall conform to ASTM A53 Grade B and ASTM A500 Grade B, respectively. Rolled steel shapes and miscellaneous plates shall conform to ASTM A36.
3. No bottom chord splices may be located in the middle third of the span.
4. Camber to compensate for dead load deflection (see Camber Diagram).
5. Ship assembled. Approximate weight = 60,000 lbs.
6. All welds joining tubular members and end plates are to seal the joint.
7. All steel surfaces to be hot dip galvanized.

AS-BUILTS — DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

DESIGNED BY: T. Doggett
CHECKED BY: J. Beedle
DRAWN BY: T. Doggett/T. Mores

STATE OF ALASKA 49TH — Timothy H. Doggett CE-9027 REGISTERED PROFESSIONAL ENGINEER — 3-30-06

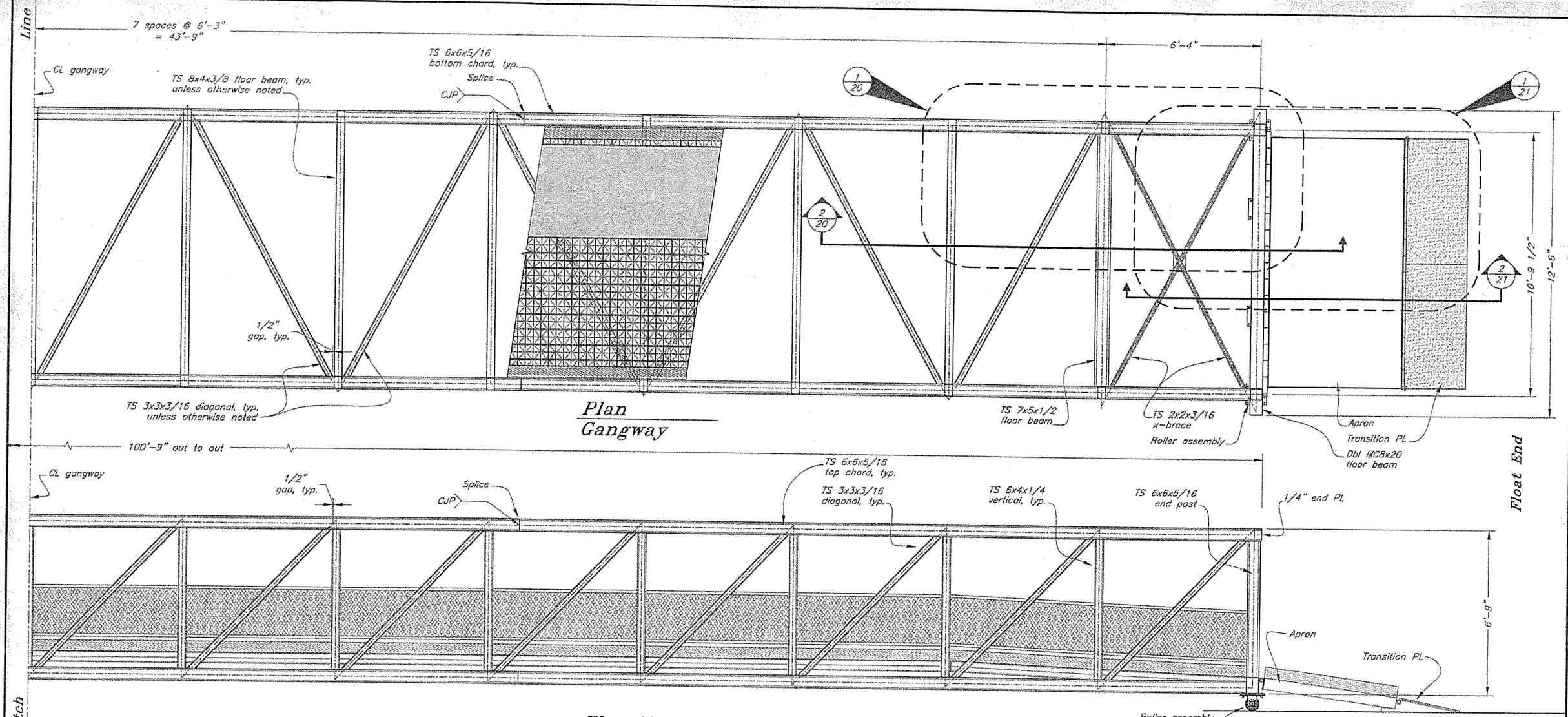
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
& PUBLIC FACILITIES
STATEWIDE DESIGN & ENGINEERING SERVICES DIVISION

Coffman Cove Seaplane Float
Relocation
Project 67904

Gangway

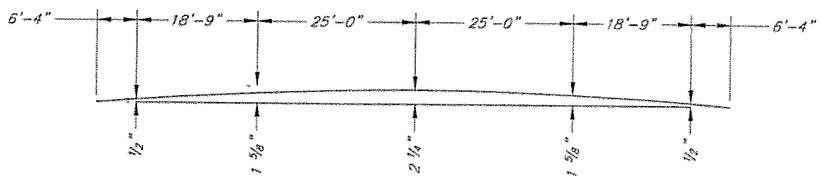
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REVISIONS NO.	DATE	DESCRIPTION	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			67904	2006	16	39



Plan
Gangway

Elevation
Gangway



Camber Diagram

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

STATE OF ALASKA
49TH
Timothy H. Doggett
CE-9027
REGISTERED PROFESSIONAL ENGINEER
3.30.06

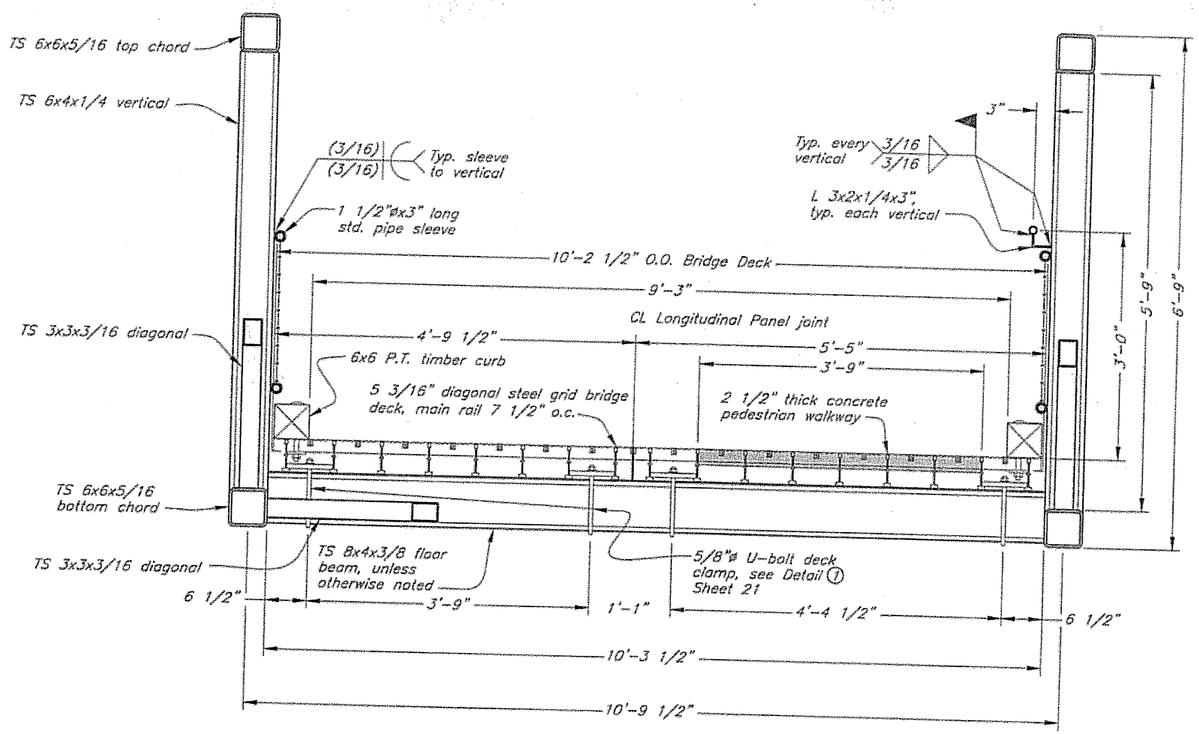
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
& PUBLIC FACILITIES
STATEWIDE DESIGN & ENGINEERING SERVICES DIVISION

Coffman Cove Seaplane Float
Relocation
Project 67904

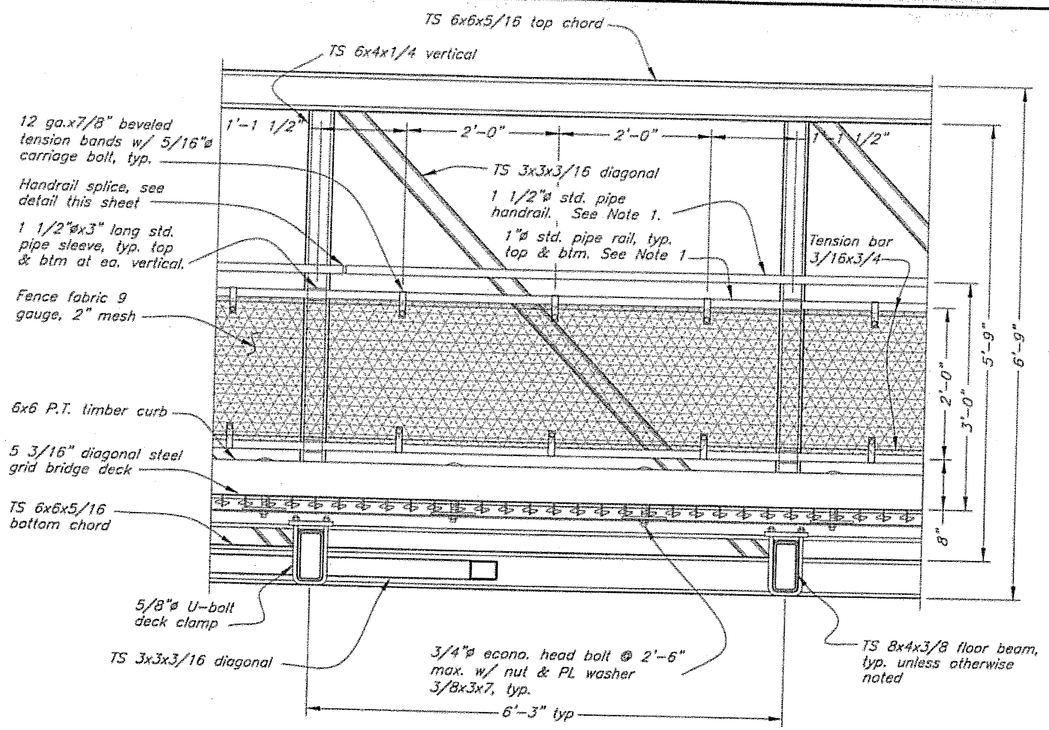
Gangway

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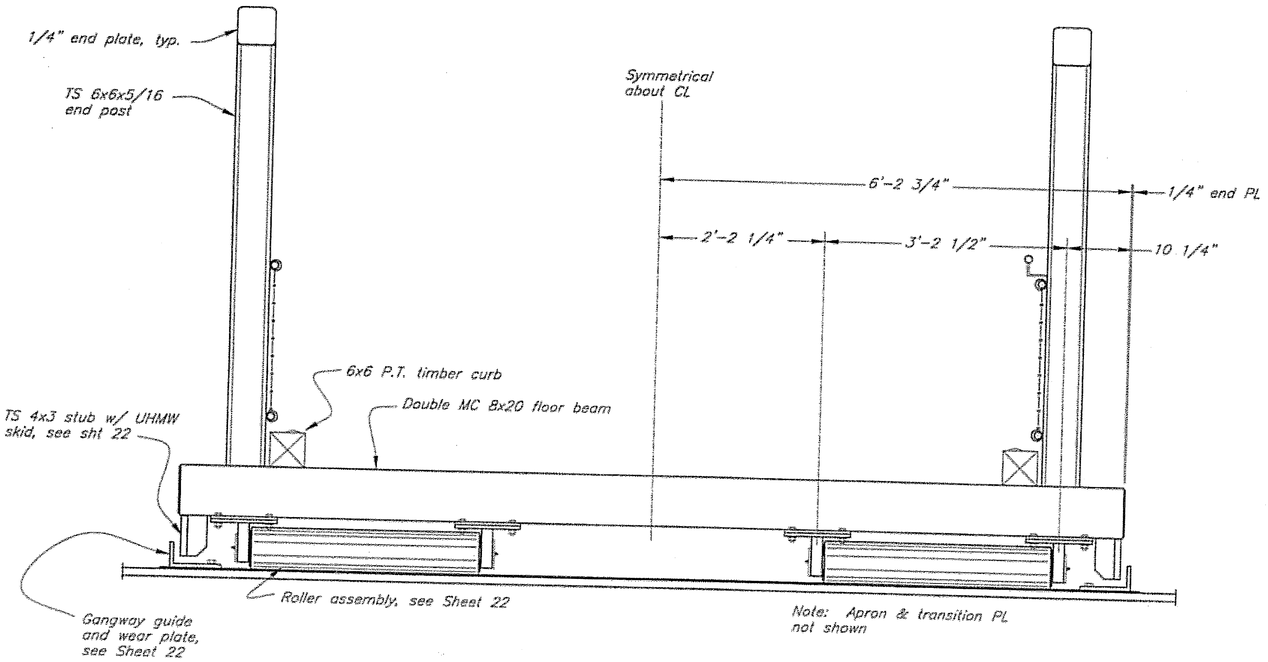
REVISIONS NO.	DATE	DESCRIPTION	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			67904	2006	17	39



Typical Section

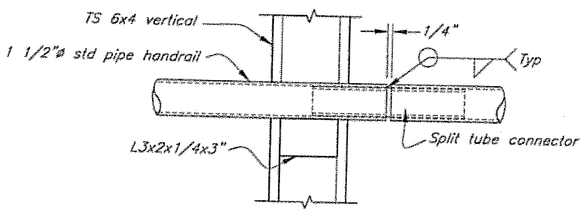


Typical Interior Elevation



Elevation - Float End

Note:
1. Install Pipe Caps at Shoreward & Float Ends of Handrails & Fence Rails.



Typ Handrail Splice

Typ at gangway quarter points.

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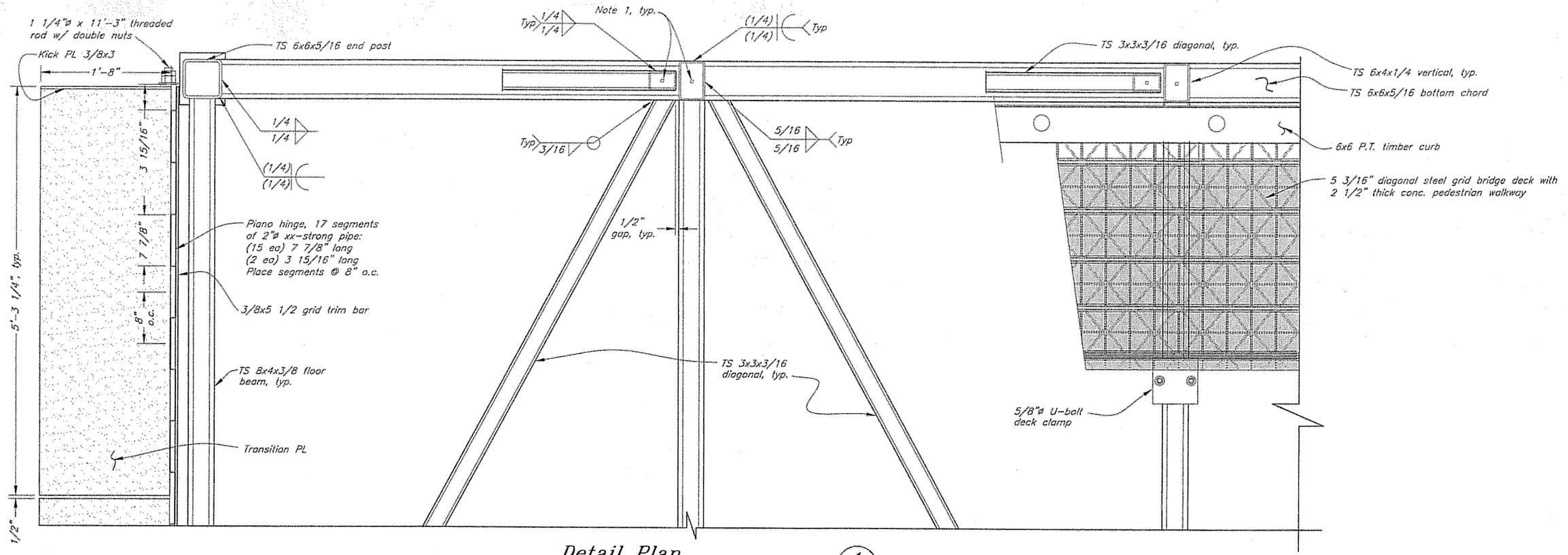
DESIGNED BY: T. Doggett
CHECKED BY: J. Beedle
DRAWN BY: T. Doggett/C. Fuman
PATH: Q:\Pcw\67904\MF\Planset\18 Gangway Typ Sects.dwg
PLOT: PSPACE 1=1 Tab: Gangway typ sect Thu, 30/Mar/06 05:53PM

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

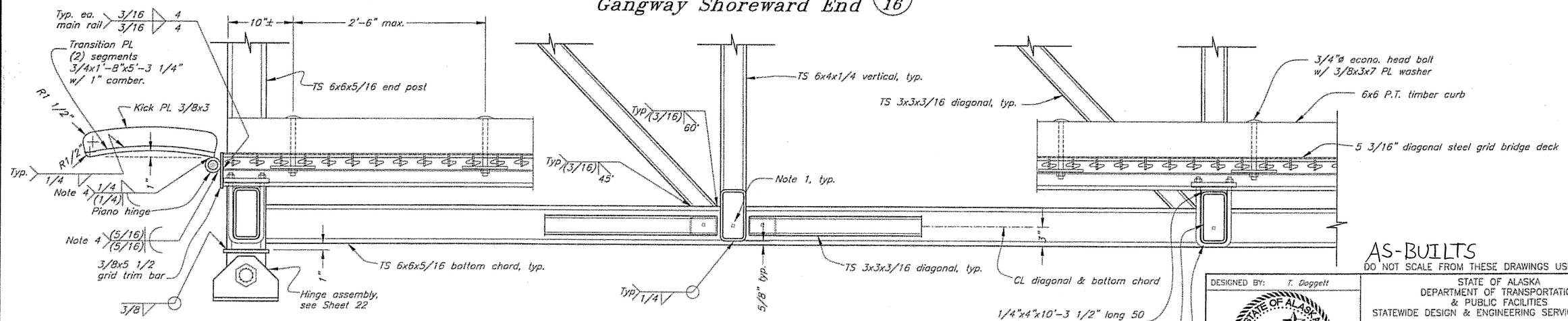
Coffman Cove Seaplane Float Relocation
Project 67904

Gangway Typical Sections

REVISIONS NO.	DATE	DESCRIPTION	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			67904	2006	18	39



Detail Plan
Gangway Shoreward End (1/16)



Section
Gangway Shoreward End (2/16)

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General Notes:

1. Provide 1/2"ø weep holes in the chords at all joints where the diagonals, verticals, & floor beams overlap.
2. Joints and splices in diagonal steel grid decking shall be detailed by the deck fabricator.
3. Wear surfaces of transition plates shall be coated with a non-slip, spray metallized abrasive prior to galvanizing.
4. Weld alternate hinge segments to transition PL and grid trim bar.

DESIGNED BY: T. Doggett
CHECKED BY: J. Beedle
DRAWN BY: T. Doggett/C. Fuman

STATE OF ALASKA
49TH
Timothy H. Doggett
CE-9027
REGISTERED PROFESSIONAL ENGINEER
3.30.06

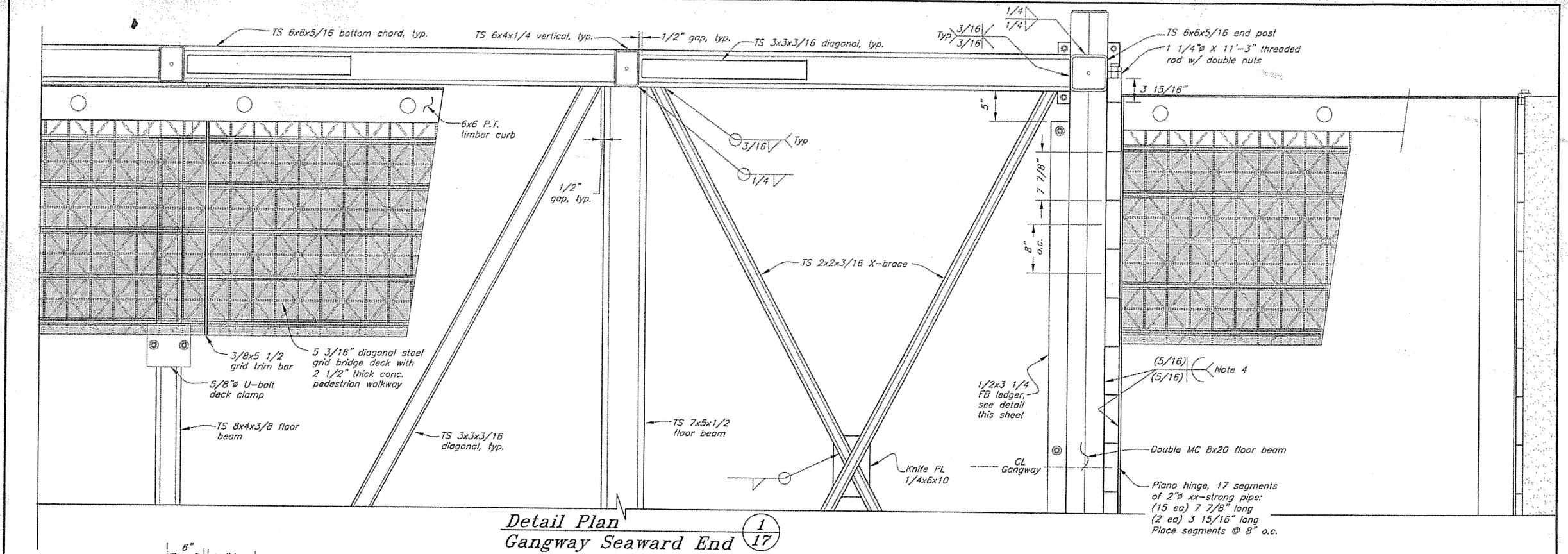
STATE OF ALASKA
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STATEWIDE DESIGN & ENGINEERING SERVICES DIVISION

Coffman Cove Seaplane Float Relocation
Project 67904

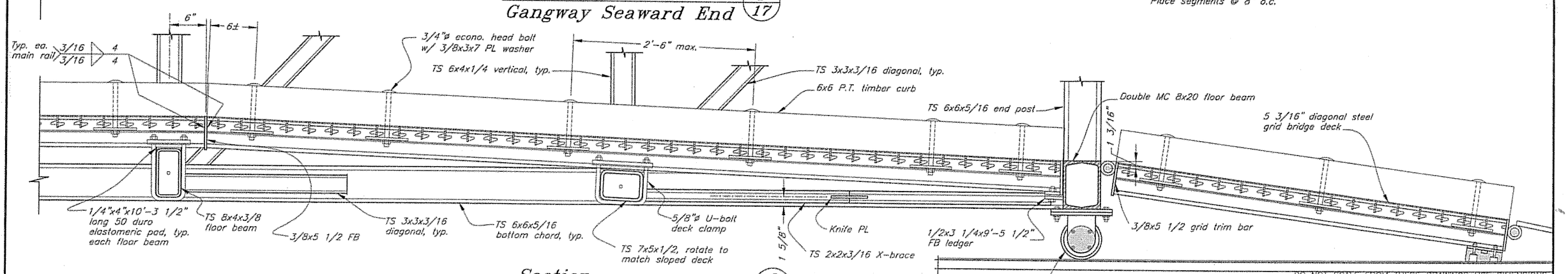
Gangway Shoreward End Details

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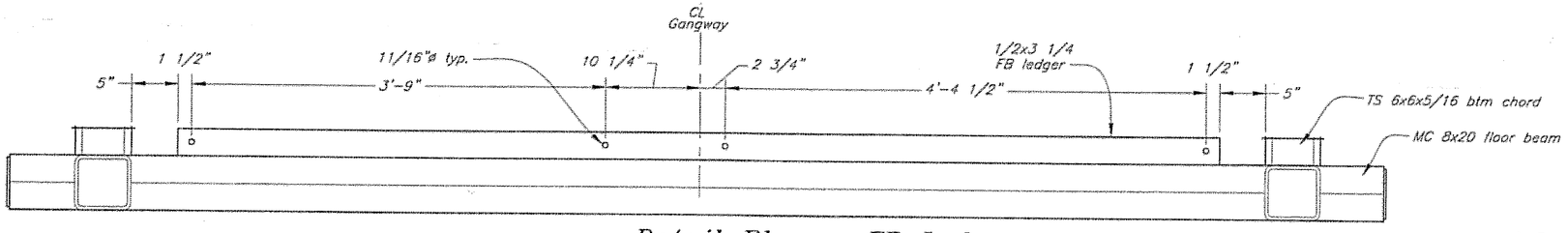
REVISIONS NO.	DATE	DESCRIPTION	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			67904	2006	19	39



Detail Plan
Gangway Seaward End (1/17)



Section
Gangway Seaward End (2/17)



Detail Plan - FB Ledger

AS-BUILTS

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DESIGNED BY: T. Doggett
CHECKED BY: J. Beedle
DRAWN BY: T. Doggett/C. Furman

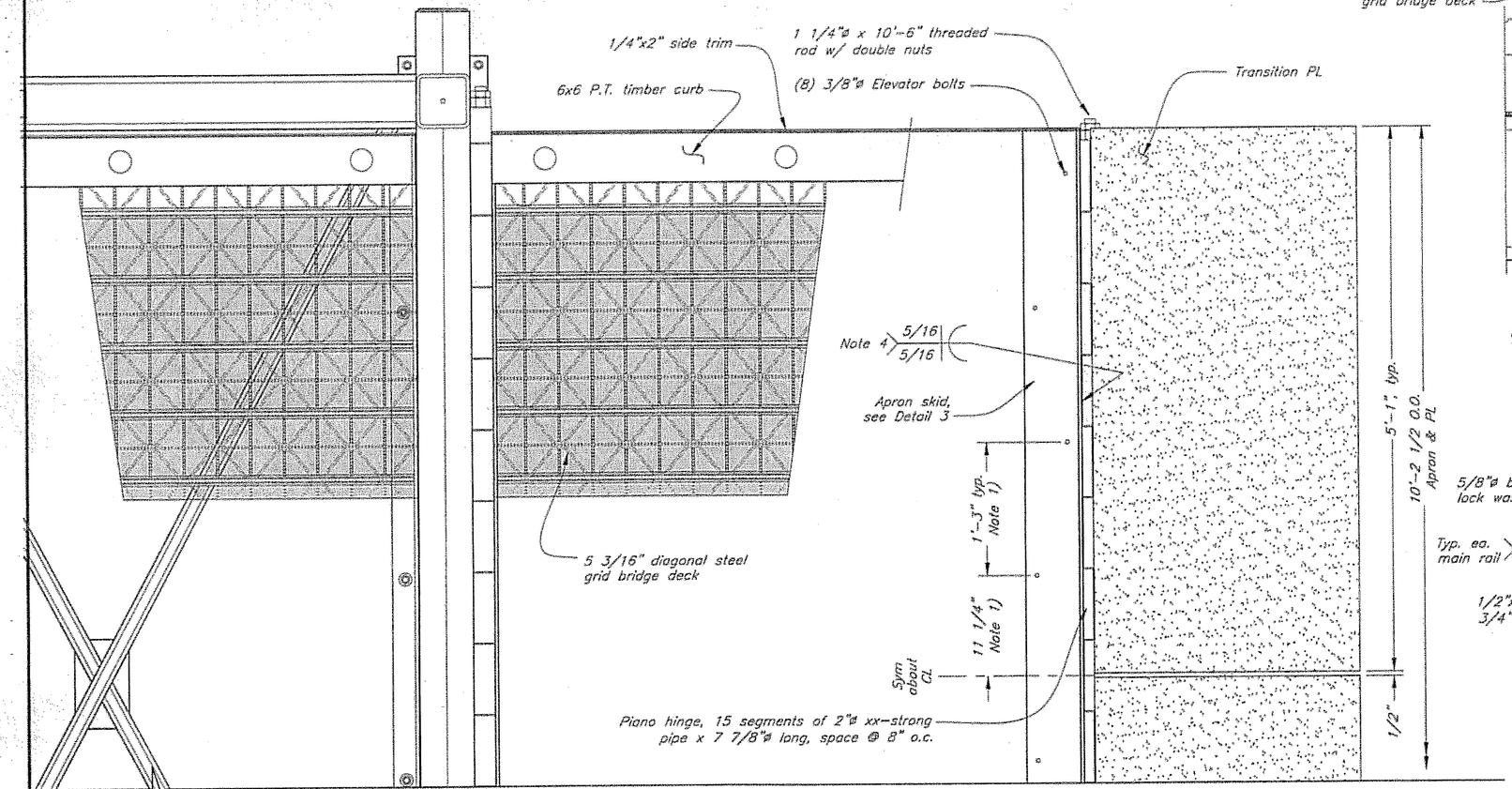
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Coffman Cove Seaplane Float Relocation
Project 67904

Gangway Seaward End Details

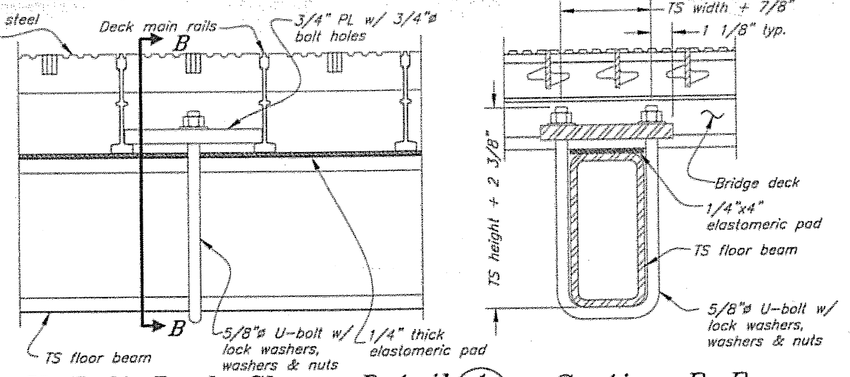
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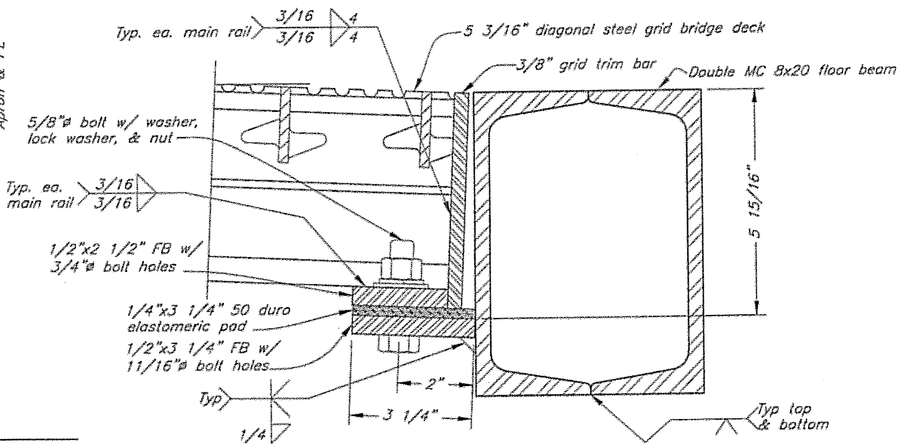
Detail Plan
Gangway Apron & Transition Plate
1/17

Note:
1) Coordinate bolt spacing with main rail spacing.

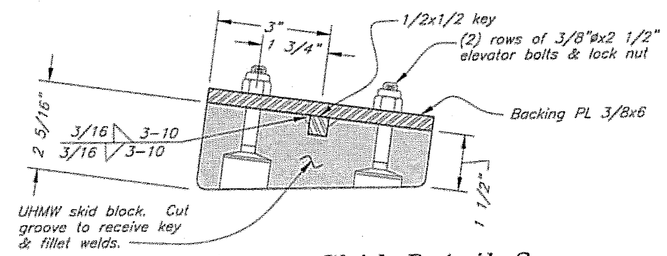


U-Bolt Deck Clamp Detail 1/18

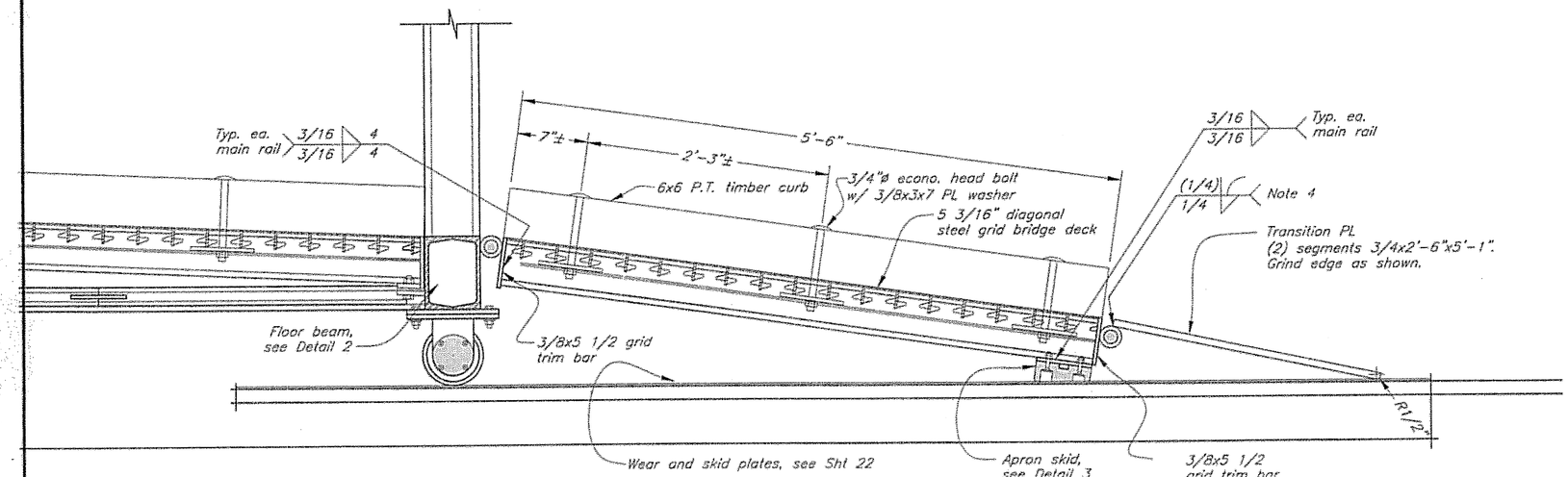
Section B-B



Seaward End Floor Beam Detail 2



Apron Skid Detail 3



Section Gangway Apron & Transition Plate
2/17

AS-BUILTS

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DESIGNED BY: T. Doggett
DRAWN BY: T. Doggett/C. Fuman
CHECKED BY: J. Beedle

STATE OF ALASKA 49TH Timothy H. Doggett CE-9027 REGISTERED PROFESSIONAL ENGINEER 3-30-06

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

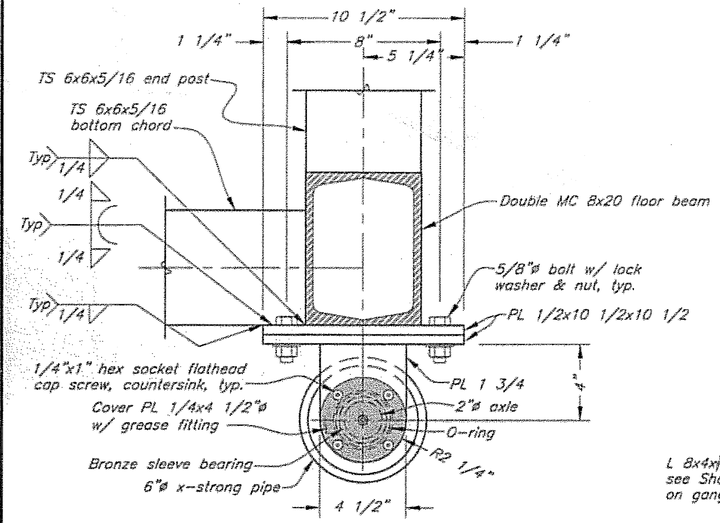
Coffman Cove Seaplane Float Relocation
Project 67904

Gangway Seaward Apron & Transition Plate

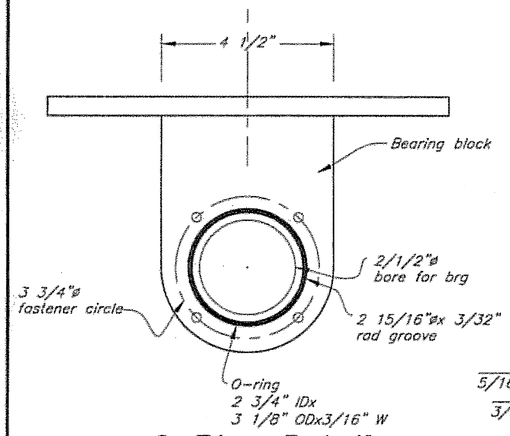
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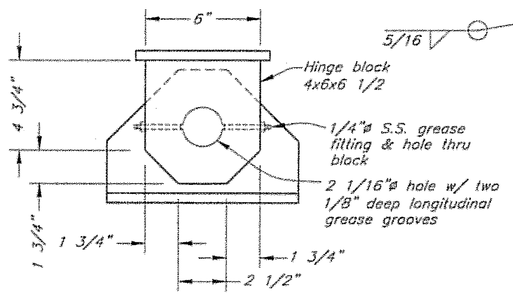
PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
67904	2006	21	39



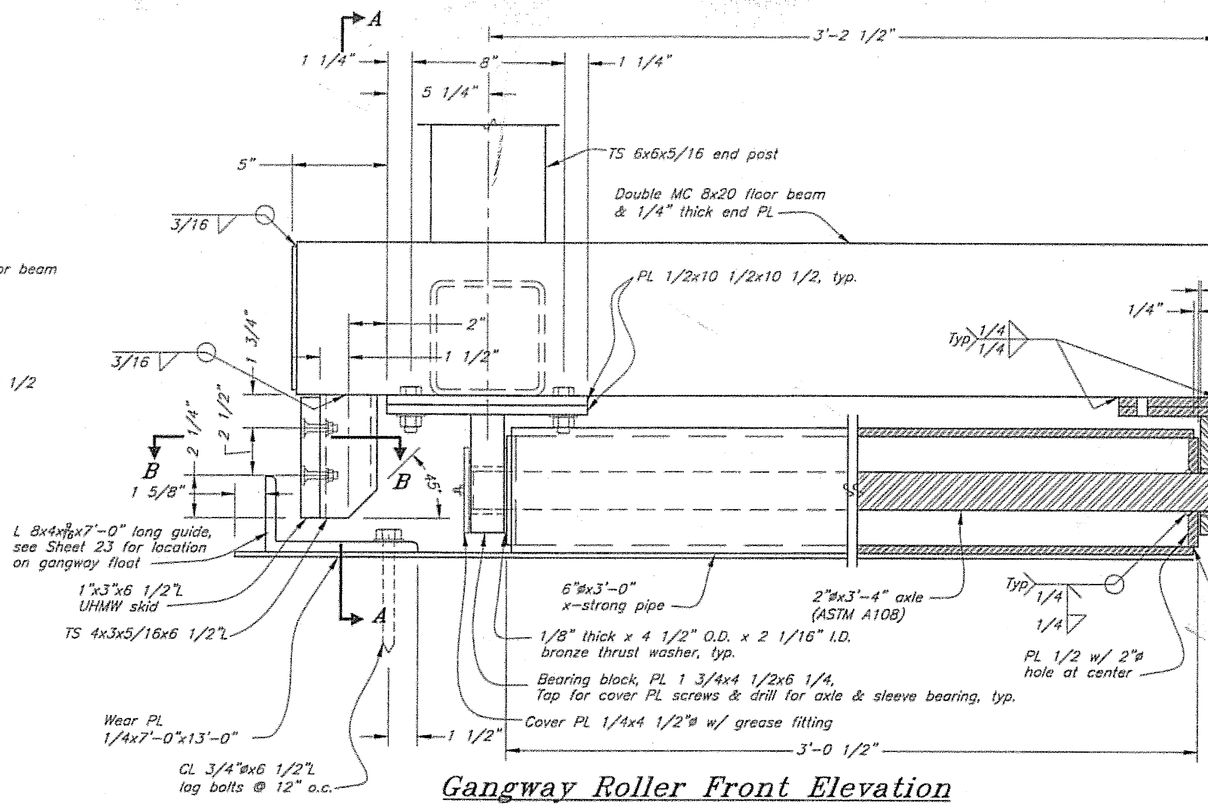
View A-A



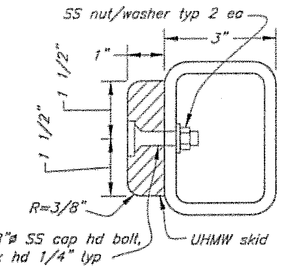
O-Ring Detail



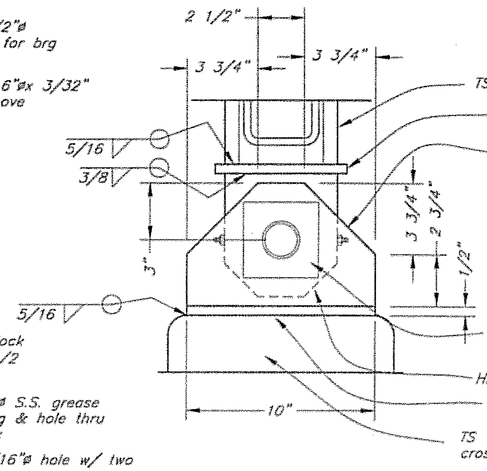
Section B-B



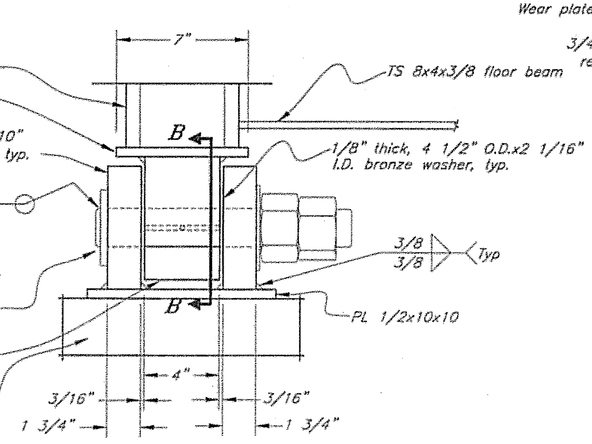
Gangway Roller Front Elevation



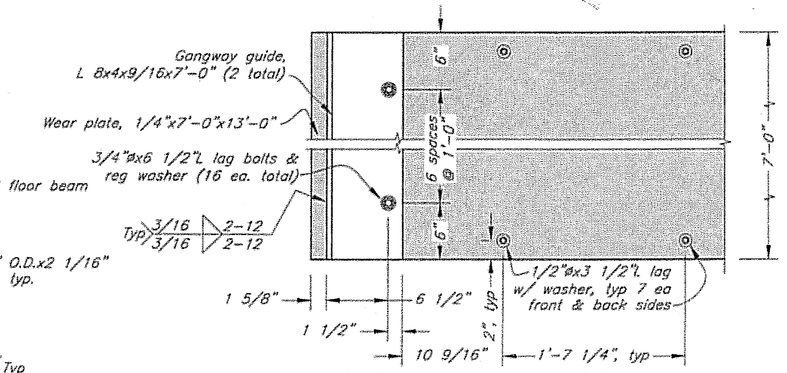
Section B-B



Hinge Assembly Side View



Hinge Assembly Front View



Gangway Guide & Wear Plate

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DESIGNED BY: T. Doggett
DRAWN BY: T. Doggett/C. Fuman
CHECKED BY: J. Beedle

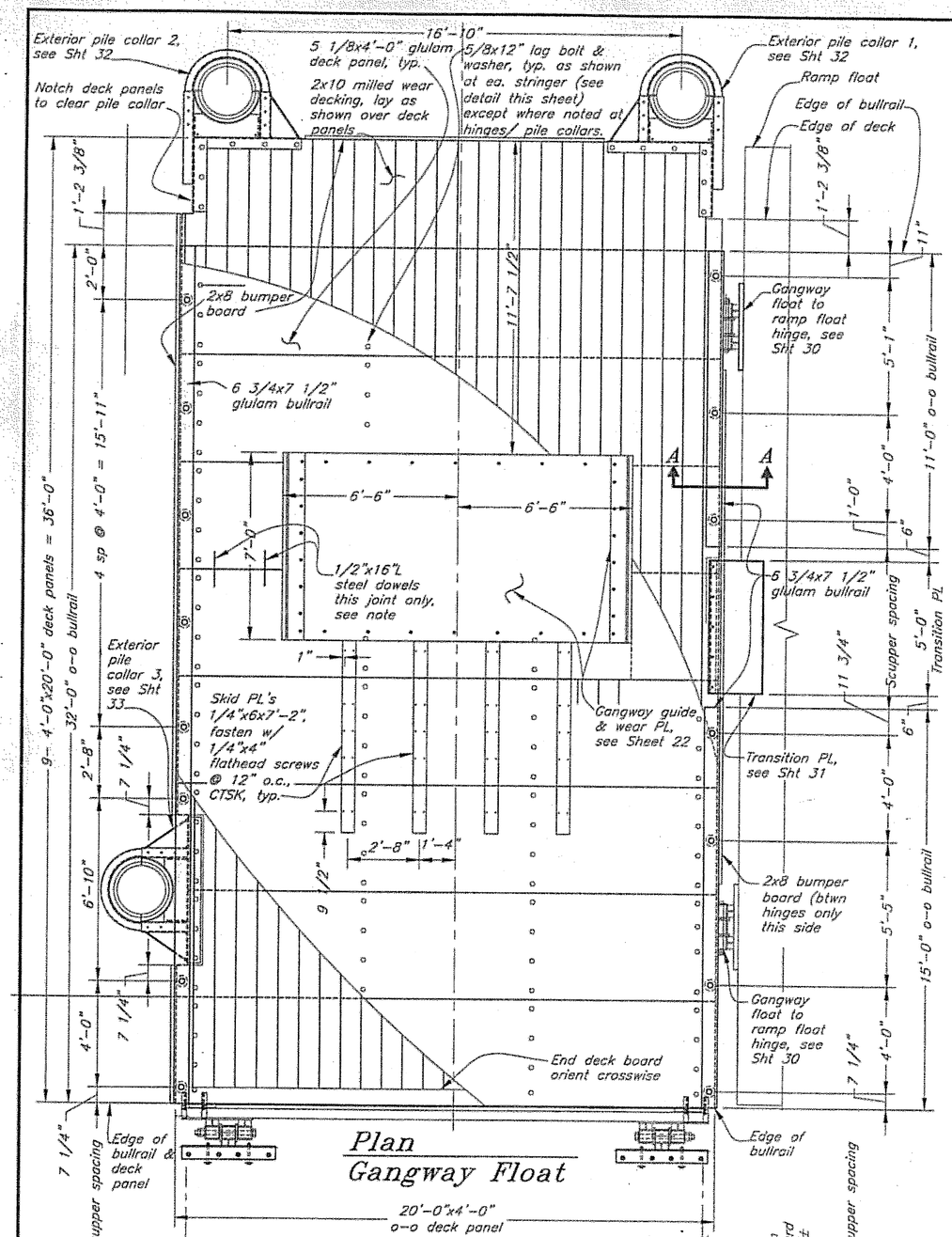
STATE OF ALASKA
49TH
Timothy H. Doggett
CE-9027
REGISTERED PROFESSIONAL ENGINEER
3-30-06

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

Coffman Cove Seaplane Float Relocation
Project 67904
Gangway Shoreward Hinge & Seaward Roller Details

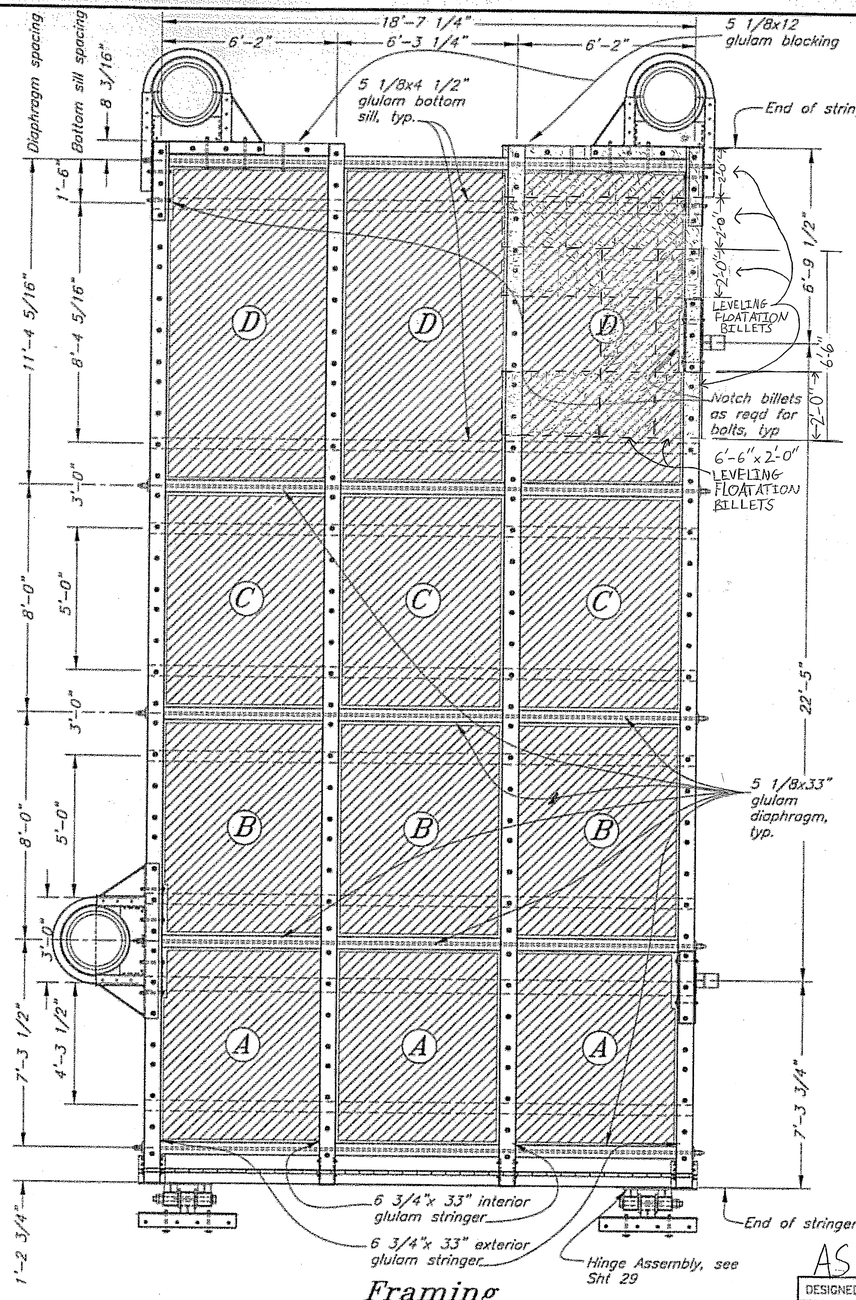
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REVISIONS NO.	DATE	DESCRIPTION	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
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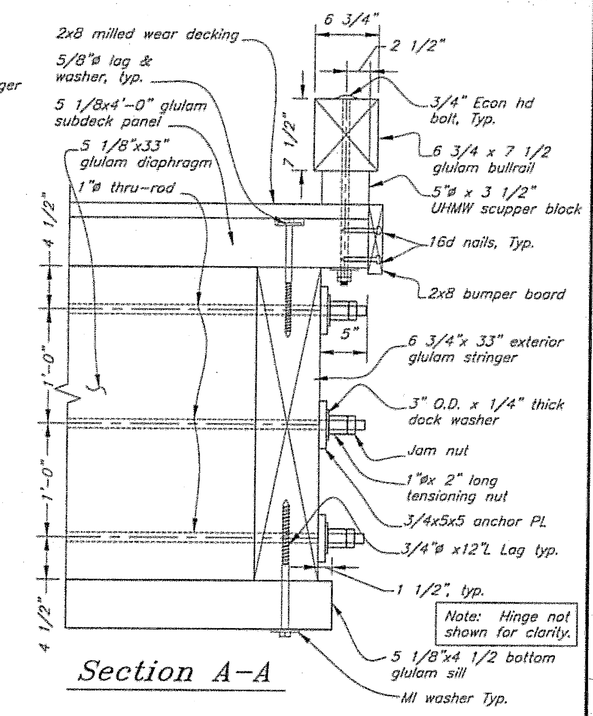


Plan
Gangway Float

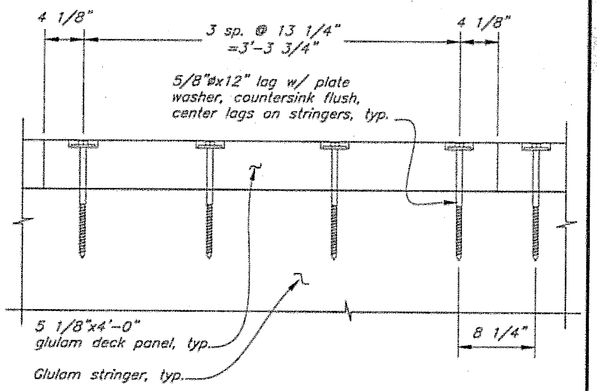
Elevation
Gangway Float



Framing
Plan



Section A-A



Typical Deck Fastening
(except where noted)

Gangway Float Flotation Billets

A	5'-6"W x 6'-8"L x 33"D
B	5'-6"W x 7'-4"L x 33"D
C	5'-6"W x 7'-4"L x 35"D (5 1/2"W x 2"H notch for bottom sills)
D	5'-6"W x 10'-9"L x 35"D (5 1/2"W x 2"H notch for bottom sills)

Notes:

1. Provide 1/2"ø x 16"L steel dowels @ approx 18" O.C. on glulam panel joint noted (3 per space btwn stringers). Insert 8" into drilled hole in center of each panel edge, typ.
2. Connect to main float with deadload of gangway fully supported by the float.
3. Approximate weight of float is 44,000 lbs, including pile collars, hinge assembly & hardware.

AS BUILTS

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

DESIGNED BY: K. Miller
CHECKED BY: J. Beedle
DRAWN BY: C. Fuman, T. Mores

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

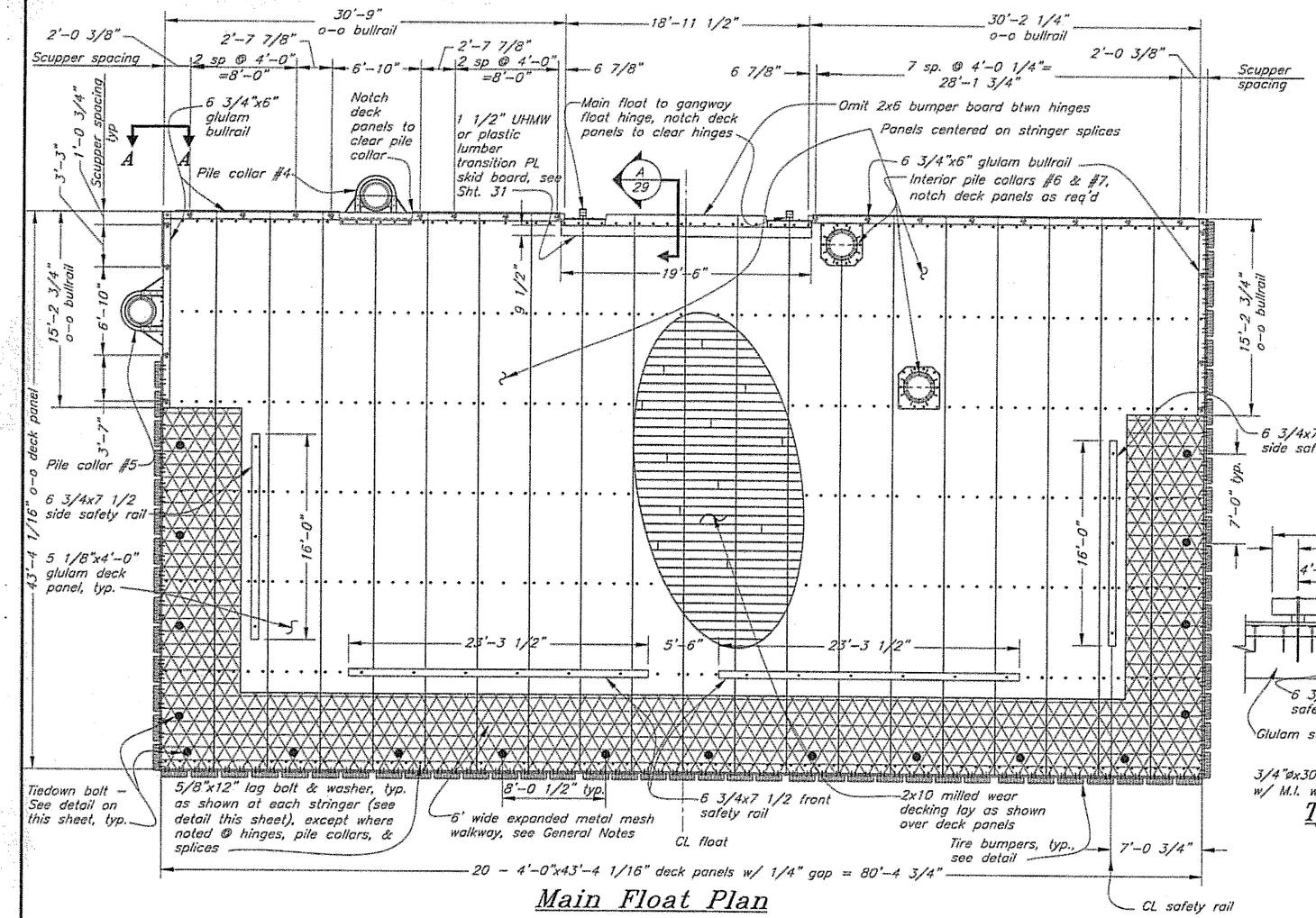
Coffman Cove Seaplane Float Relocation
Project 67904

Gangway Float

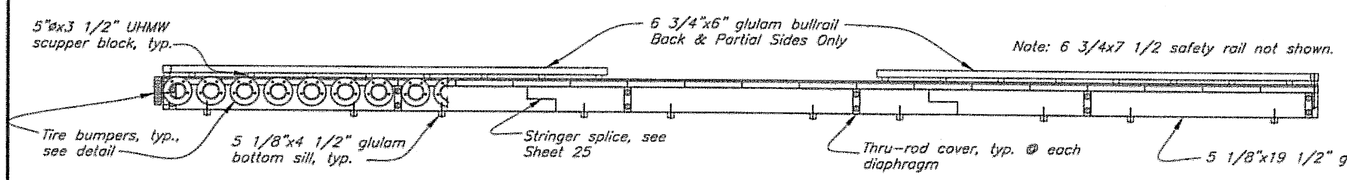
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REVISIONS NO.	DATE	DESCRIPTION

PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
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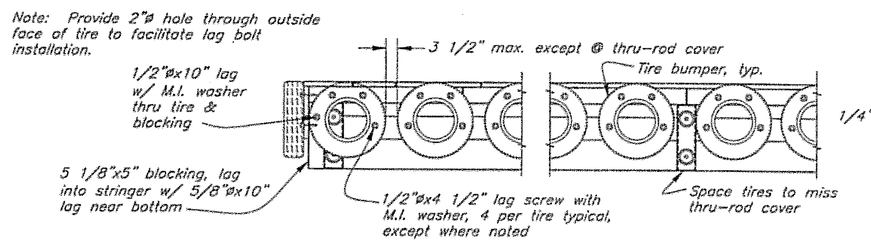


Main Float Plan

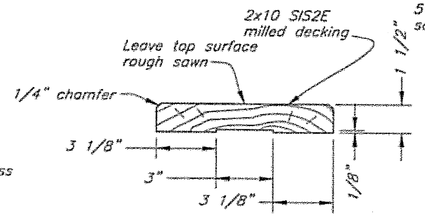


Main Float Front Elevation

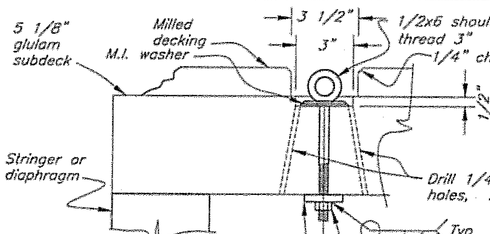
Notes:
1. Design Freeboard = 17"
2. Approximate weight of float is 148,500 lbs, including hinges, pile collars & all hardware.



Tire Bumper Detail

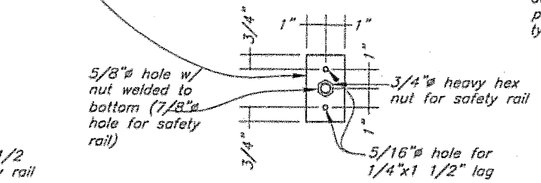


Typ Milled Decking

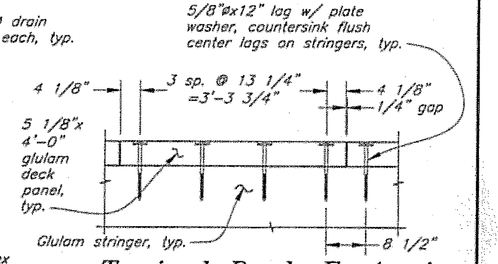


Tiedown Elevation

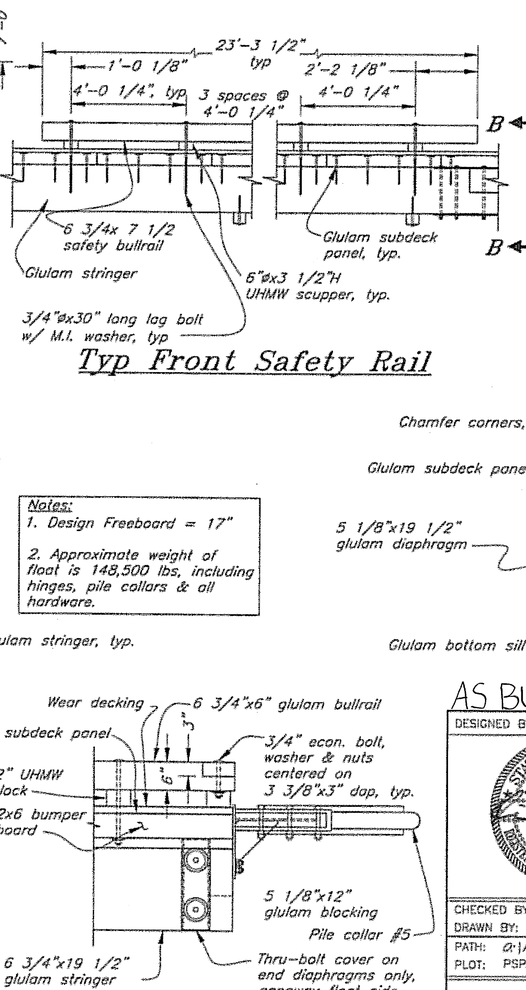
Note: Attach 1/2"øx12"L poly rope loops to each tiedown eye. Tie w/ double fishermans knot & burn ends to prevent fraying.



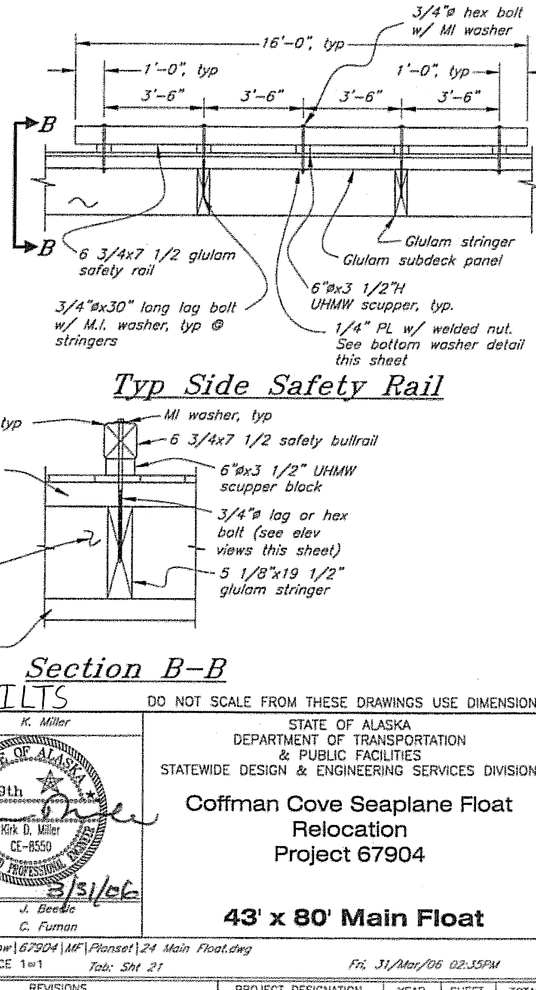
Bottom Washer Plan



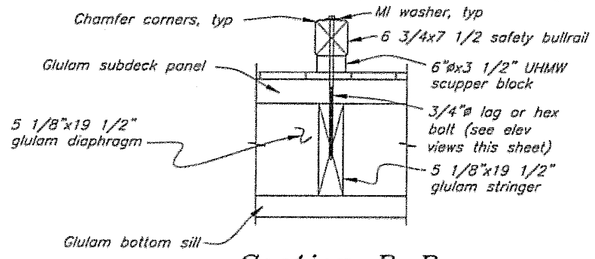
Typical Deck Fastening (except where noted)



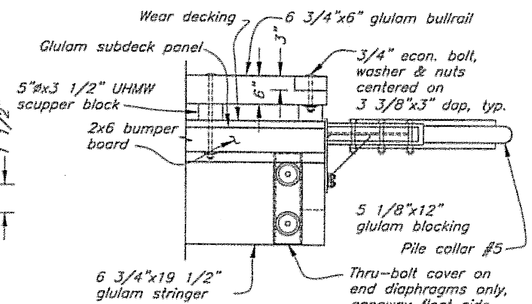
Typ Front Safety Rail



Typ Side Safety Rail



Section B-B



View A-A

AS BUILTS

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

DESIGNED BY: K. Miller
CHECKED BY: J. Beedle
DRAWN BY: C. Furman

STATE OF ALASKA
Kirk D. Miller
CE-8550
49th
DUPLICATED PROFESSIONAL ENGINEER
3/31/06

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

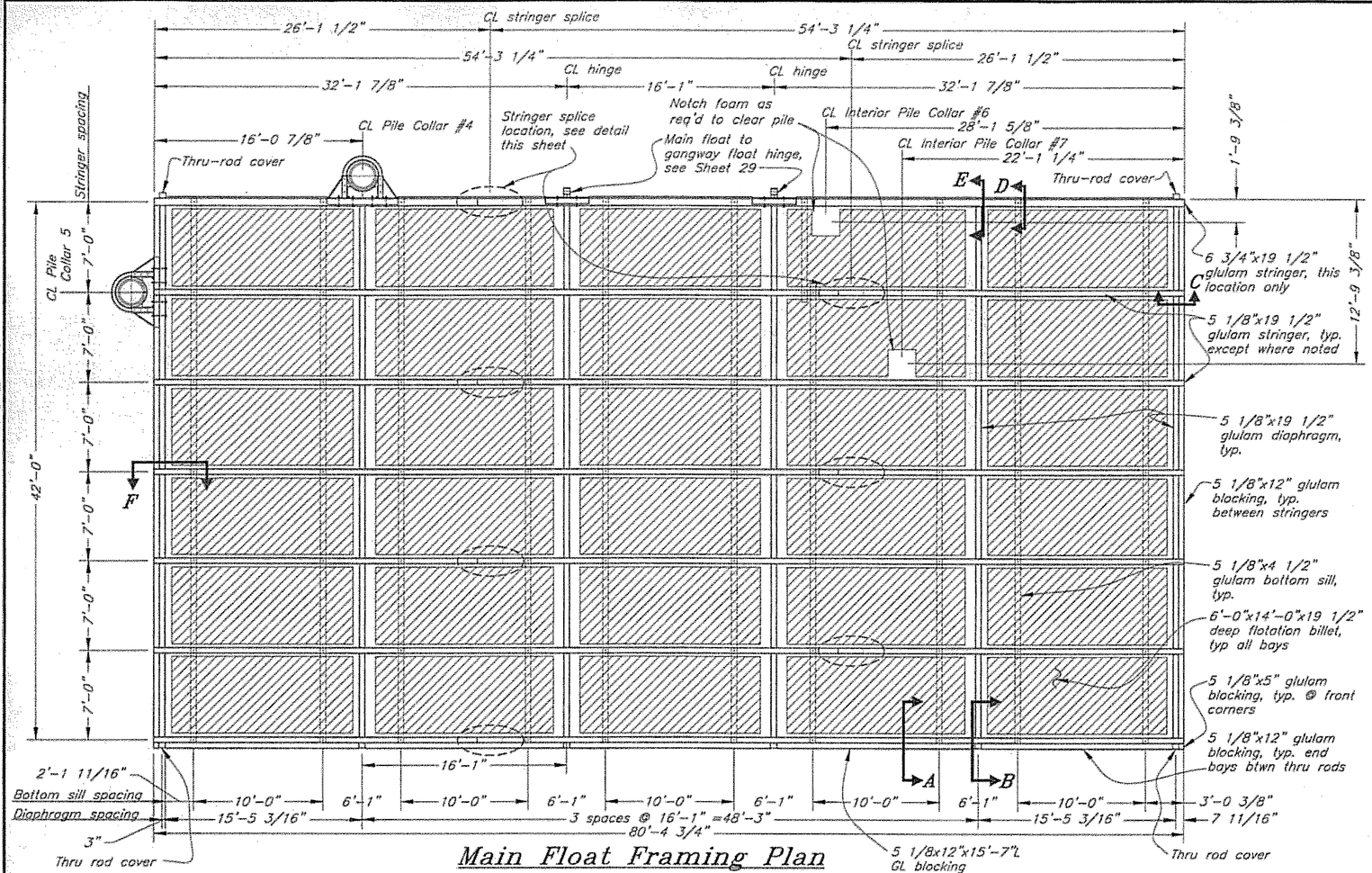
Coffman Cove Seaplane Float Relocation
Project 67904

43' x 80' Main Float

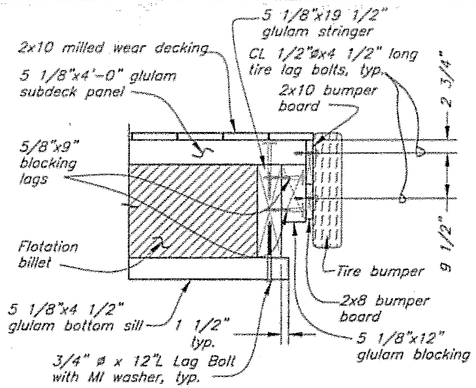
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REVISIONS NO.	DATE	DESCRIPTION

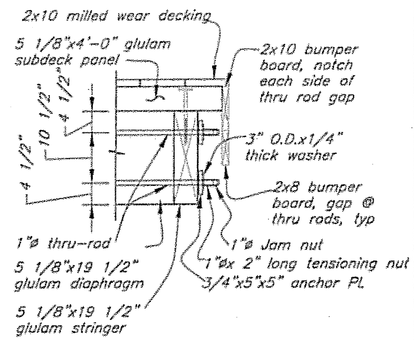
PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
67904	2006	24	39



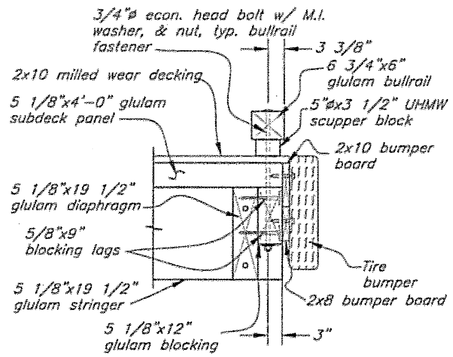
Main Float Framing Plan
(Deck and Glulam Subdeck not shown for clarity)



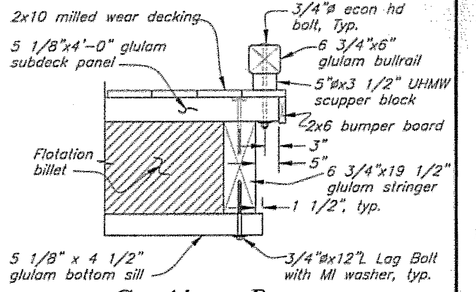
Section A



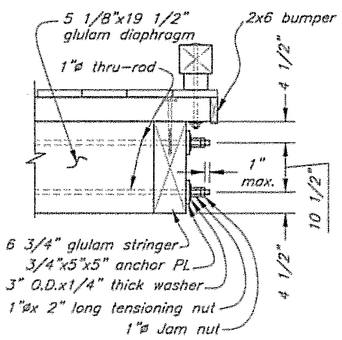
Section B



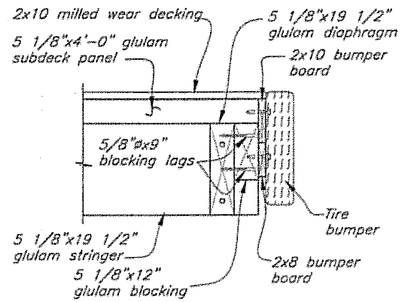
Section C



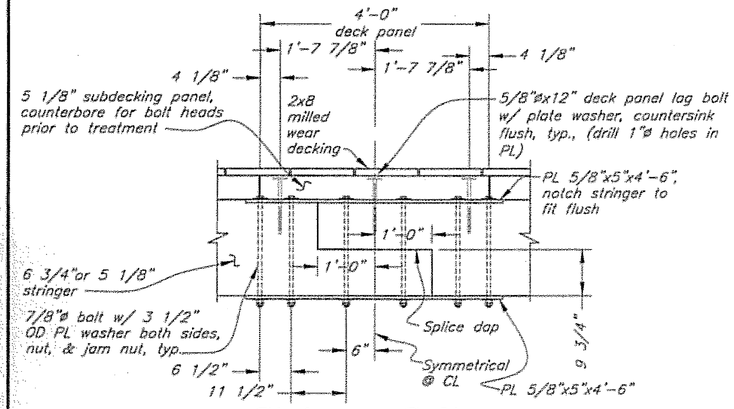
Section D



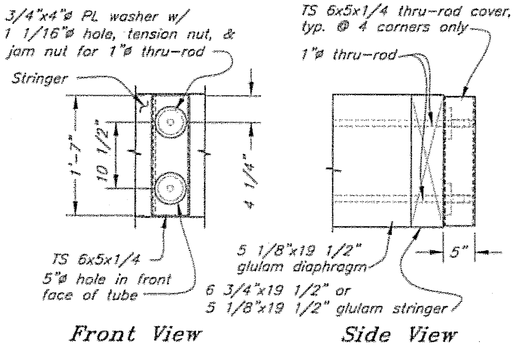
Section E



Section F



Stringer Splice



Thru-rod Cover

GLULAM EDGE BLOCKING NOTE:
Secure 5 1/8"x12" glulam blocking located between thru rod covers at seaward face & between stringers along sides with 5/8"øx 9"L lag bolts w/ plate washers, CTSK heads. Space 3" from top & bottom of blocking w/in 12" of ends and at approx 3'-0" spacing. Also install additional 5/8"øx12"L lag bolts thru glulam subdeck and into exterior glulam blocking - 2 lags per panel on seaward side and at approx 3'-0" spacing on sides (typ 3 sides). Coordinate on shop drawings to miss other hardware. Avoid interference with bullrail bolts, thru-rods, subdeck lags and rubber tire lags.

AS BUILTS

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

DESIGNED BY: K. Miller
CHECKED BY: J. Beedle
DRAWN BY: C. Fuman

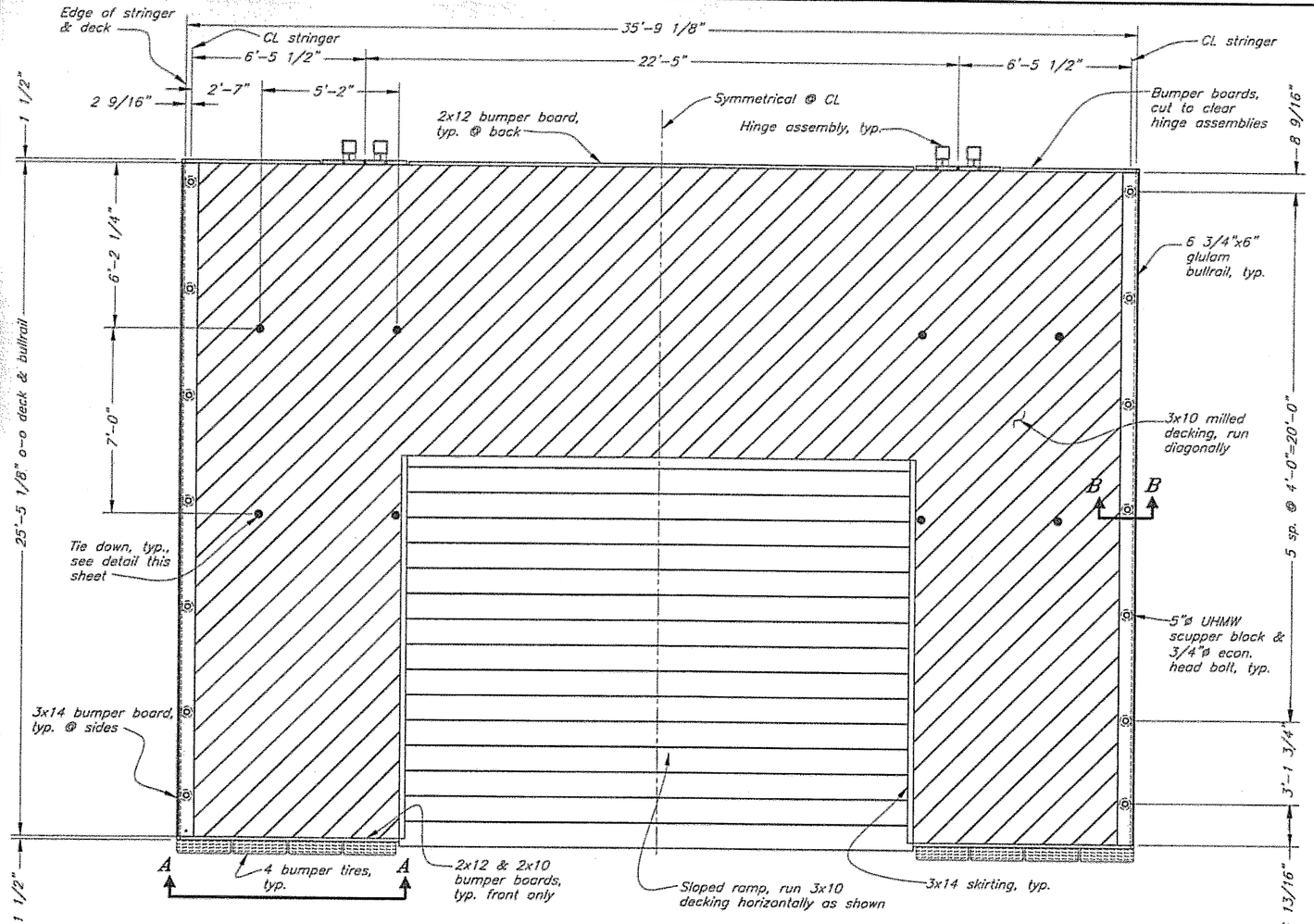
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
STATEWIDE DESIGN & ENGINEERING SERVICES DIVISION

Coffman Cove Seaplane Float Relocation
Project 67904

Main Float Framing

PATH: O:\Pow\67904\MF\Planset\25 Main Float Framing.dwg
PLOT: PSPACE 1=1 Tab: Sht 22 Thu, 23/Mar/06 05:03PM

REVISIONS NO.	DATE	DESCRIPTION	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
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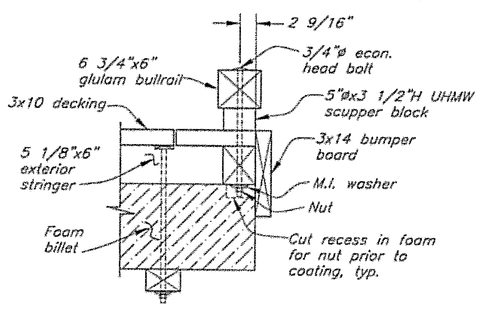
Ramp Float Deck Plan

3x10 Decking Installation Notes

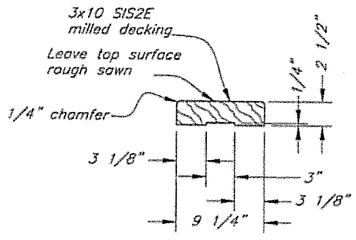
1. Place decking in diagonal pattern on main float area and straight pattern at ramp haul-out as indicated on Plans. Space all deck boards 1/4-inch apart.
2. For diagonal decking, provide full-length boards where overall length does not exceed 18-feet. For deck areas requiring longer than 18-feet deck boards, install no more than two boards with match joints at center of the 5-1/8" glulam stringers. Stagger joints every other stringer until full-length deck boards can be utilized. Straight pattern deck boards at the ramp location shall be provided at the full length without end joints.
3. Secure all deck boards at ends with 2 each, ¼" x 5" long galvanized lag screws with washers. Predrill pilot hole and counterbore deck to washer diameter so that lag screw heads are flush with deck. Secure deck boards at interior locations to stringers with 3 each, 50d, double hot-dip galvanized nails. Predrill deck boards for all nail holes to prevent splitting.

Bumper Board Installation Notes

1. Install & fasten 2x bumper boards per the General Notes, Sheet 2.
2. 3x14 bumper boards for ramp skirting shall be provided in the full length required. 3x14 bumper boards for the exterior sides shall be provided full length or a maximum of two boards will be permitted. Joint shall be located at approx mid-depth of the float and butted at center of cross sill.
3. Affix 3x14 bumper boards to exterior stringers w/ 2 ea, 1/4" x 5 1/2" L lag screws with washer (countersink heads flush) at ends and mid-span. Nail to stringers between lag bolt locations with 50d nails @ 6" OC, staggered row, 2" from top & bottom of stringer. Predrill pilot holes in board and angle nails slightly towards interior of stringer. Also place 50d nail into ends of cross sills.

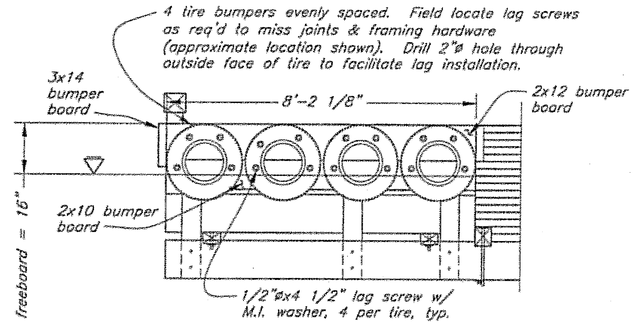


Bullrail Section B-B

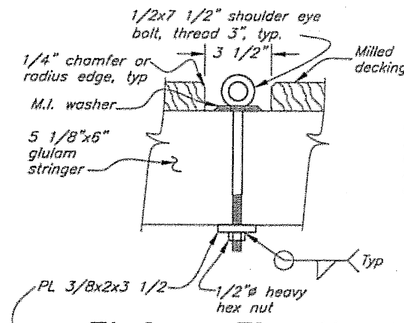


Milled Decking

Approximate weight of float is 23,500 lbs, including hinges & all hardware.

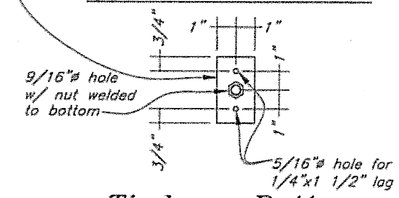


View A-A



Tiedown Elevation

Note: Attach 1/2"ø x 12"L poly rope loops to each tiedown eye. Tie w/ double fishermans knot and burn ends to prevent fraying.



Tiedown Bottom Washer Plan

AS BUILTS

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

DESIGNED BY: K. Miller
DRAWN BY: C. Furman
CHECKED BY: J. Beedle

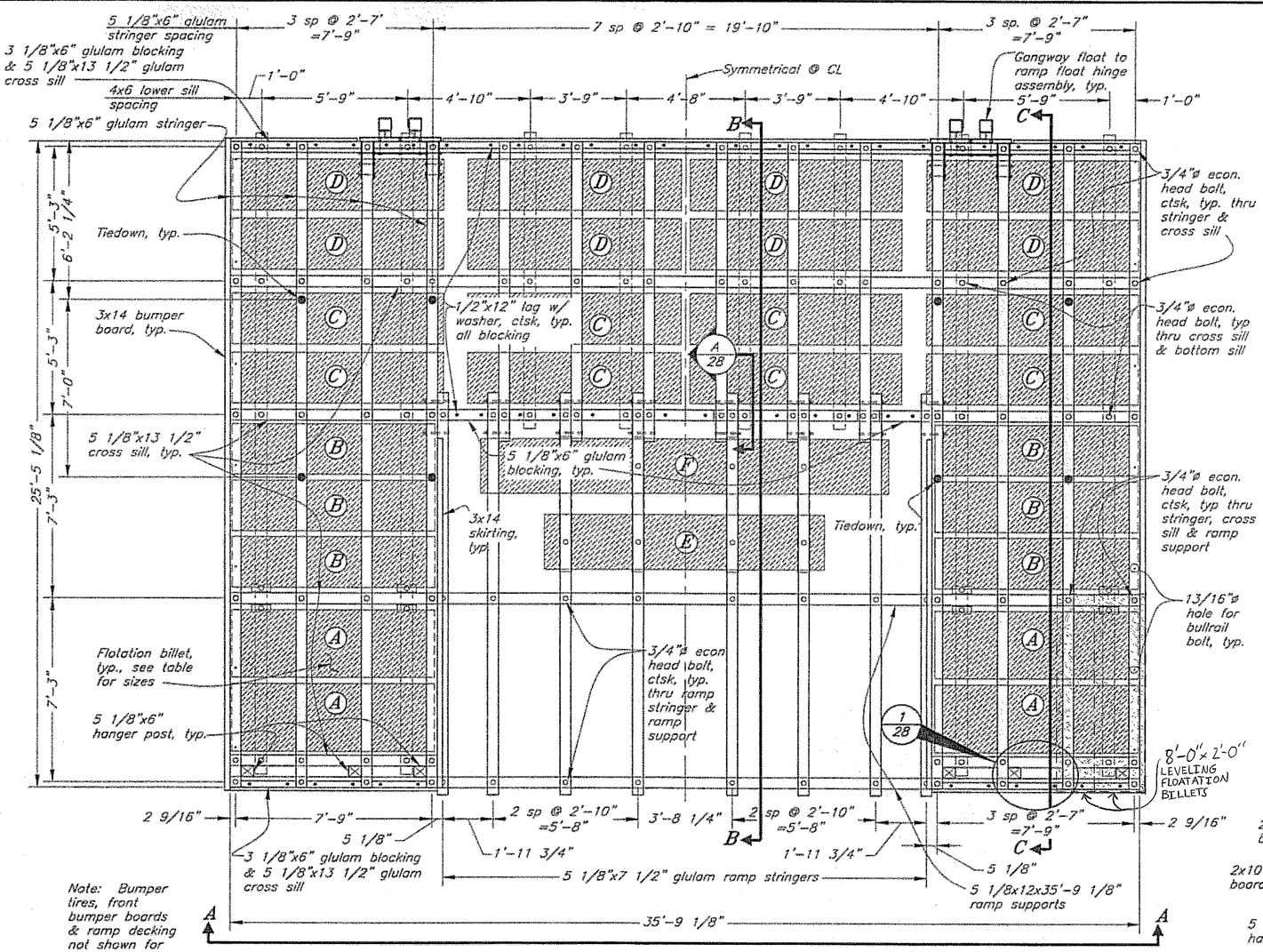
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
STATEWIDE DESIGN & ENGINEERING SERVICES DIVISION

Coffman Cove Seaplane Float Relocation
Project 67904

Ramp Float Deck Plan

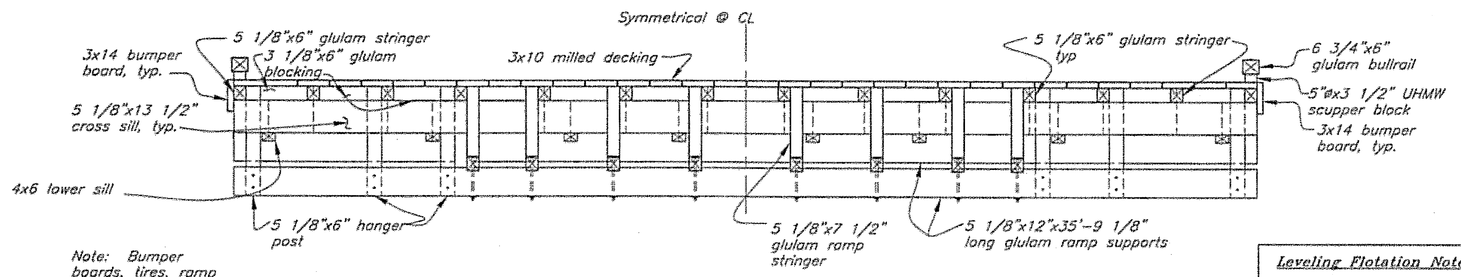
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PLOT: PSPACE 1=1 TAB: DETAIL Fri, 31/Mar/06 02:36PM

REVISIONS NO.	DATE	DESCRIPTION	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			67904	2006	26	39



Note: Bumper tires, front bumper boards & ramp decking not shown for clarity

Ramp Float Framing Plan

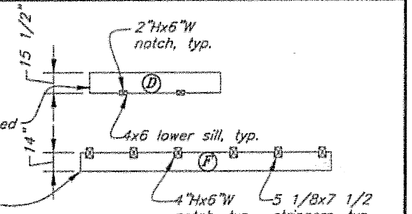


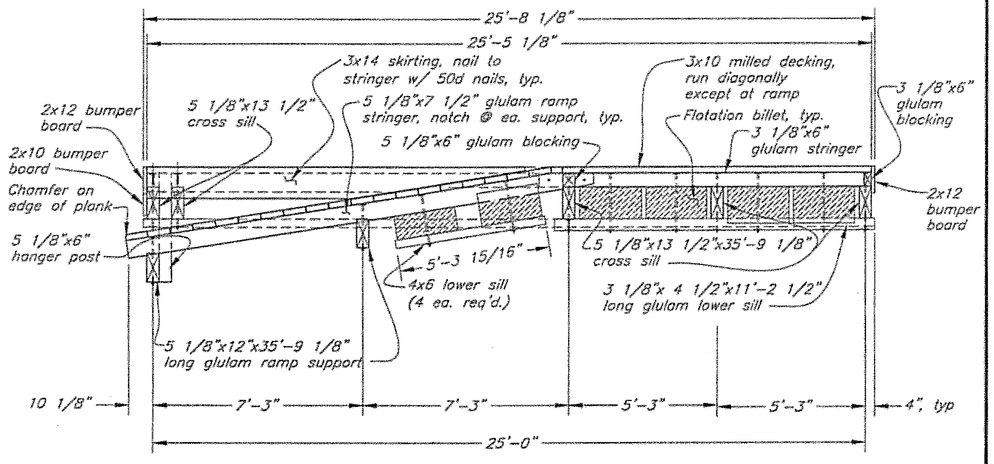
Note: Bumper boards, tires, ramp decking & hardware not shown for clarity

View A-A

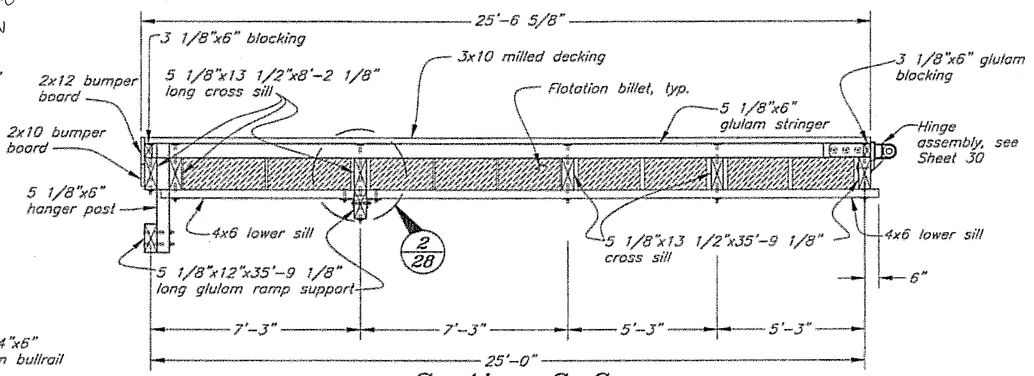
Flotation Billets

A	8'-0"Lx32"Wx13 1/2"D
B	8'-0"Lx24"Wx13 1/2"D
C	8'-0"Lx24"Wx13 1/2"D
D	8'-4"Lx24"Wx15 1/2"D, notched
E	11'-0"Lx24"Wx10"D
F	16'-0"Lx24"Wx14"D





Section B-B



Section C-C

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

AS BUILTS

Leveling Flotation Notes:

Provide the following extra flotation billets (coated) for leveling of ramp float in accordance with Bid Items 506(4) & 506(5). Place under float at locations directed by the Engineer. Affix to overlying billets w/ sharpened wooden or PVC dowels. Also see Specifications.

6 each, 6'-6"L x 2'-0"W x 6"D
24 each, 8'-0"L x 2'-0"W x 6"D

DESIGNED BY: K. Miller
CHECKED BY: J. Beedle
DRAWN BY: C. Fuman

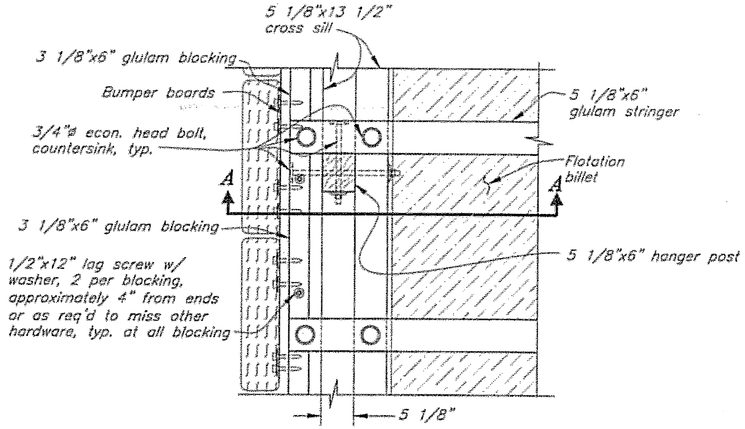
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
STATEWIDE DESIGN & ENGINEERING SERVICES DIVISION

Coffman Cove Seaplane Float Relocation
Project 67904

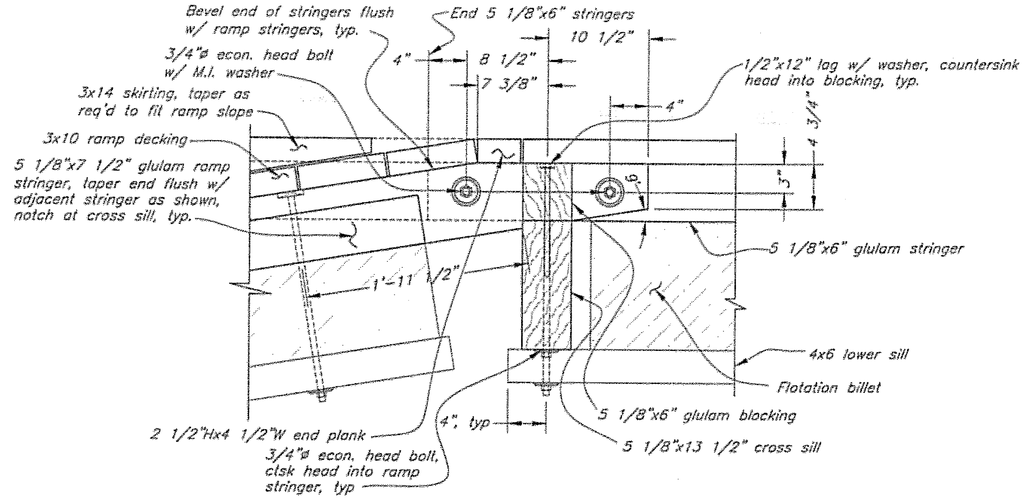
Ramp Float Framing

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PLOT: PSPACE 1=1 TAB: DETAIL
Tue, 28/Mar/06 02:22PM

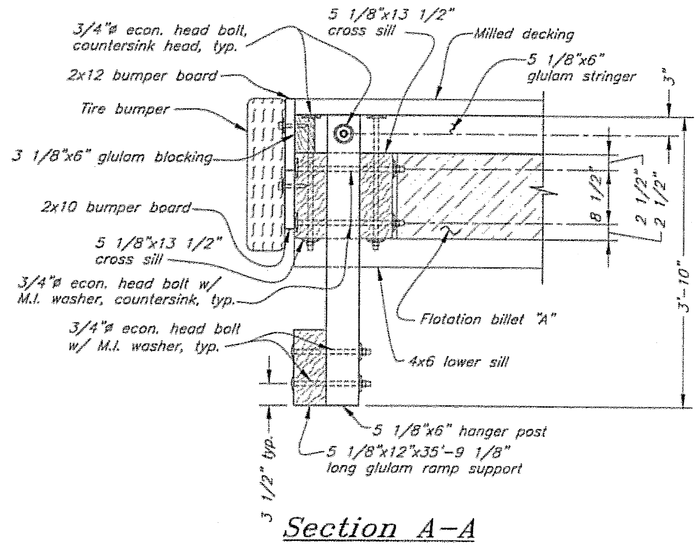
REVISIONS NO.	DATE	DESCRIPTION	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			67904	2006	27	39



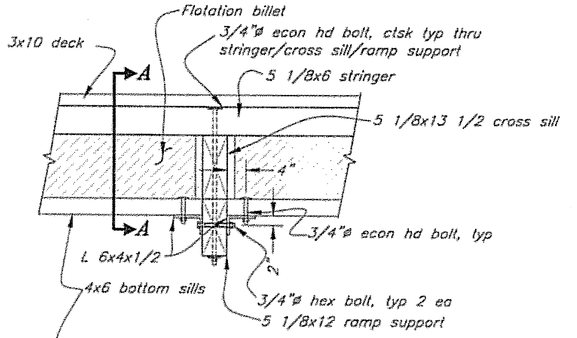
Detail 1/27



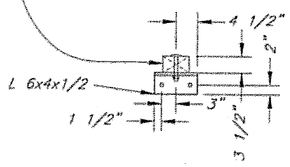
Section A 27



Section A-A



Bottom Sill Detail 2/27



Section A-A

AS BUILTS

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

DESIGNED BY: K. Miller
DRAWN BY: C. Fuman
CHECKED BY: J. Beedle

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

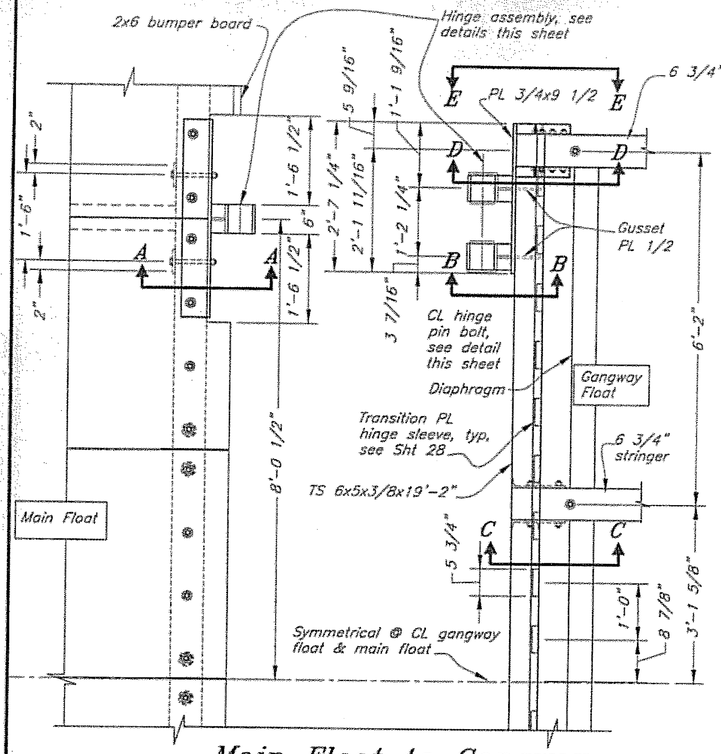
Kirk D. Miller CE-8550 — 3/31/06

Coffman Cove Seaplane Float Relocation
Project 67904

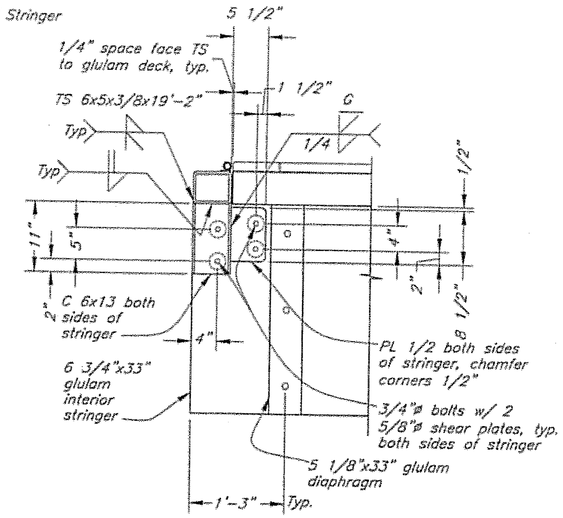
Ramp Float Details

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PLOT: PSPACE 1=1 TAB: DETAIL Tue, 28/Mar/06 10:19AM

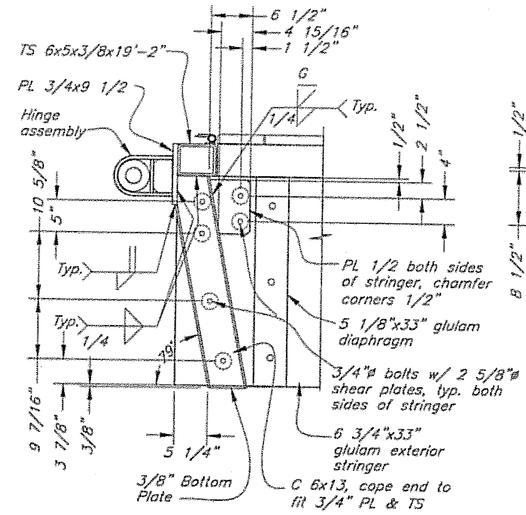
REVISIONS NO.	DATE	DESCRIPTION	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			67904	2006	28	39



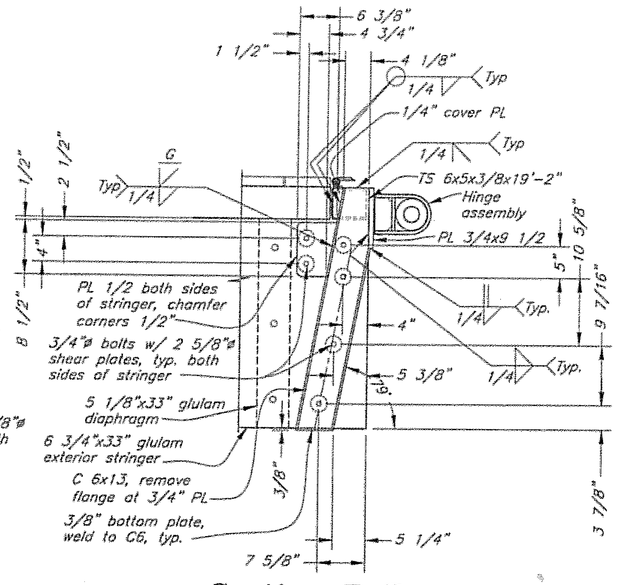
Main Float to Gangway Float Hinge Plan



Section C-C

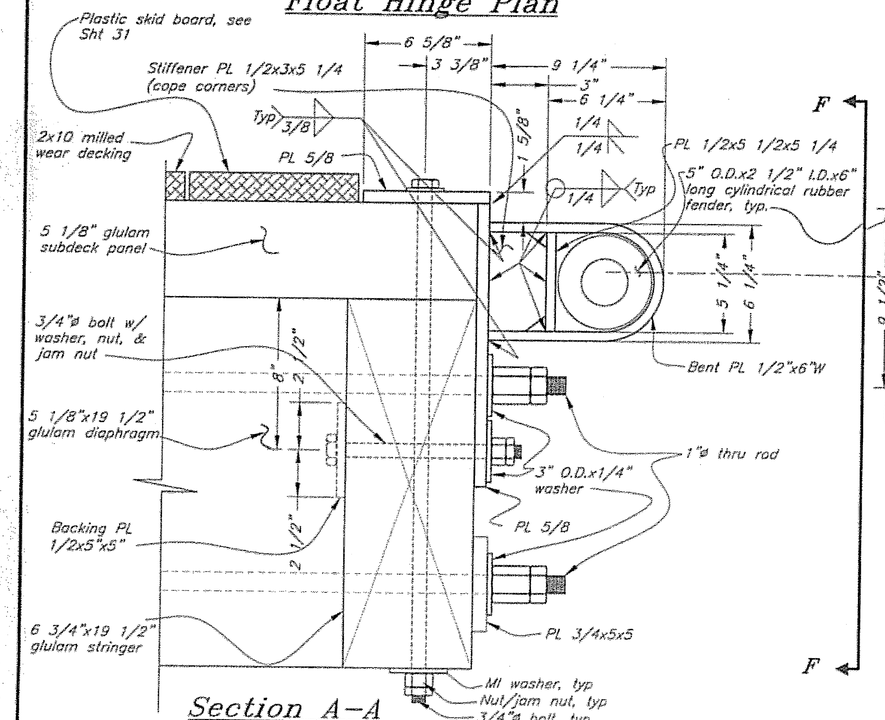


Section D-D

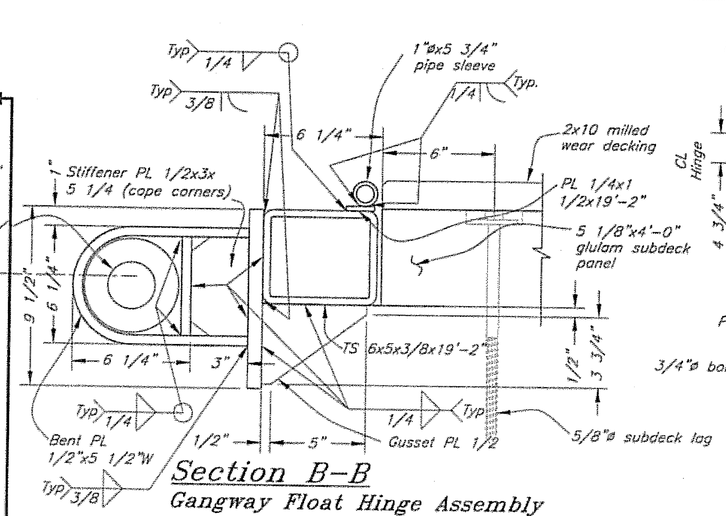


Section E-E

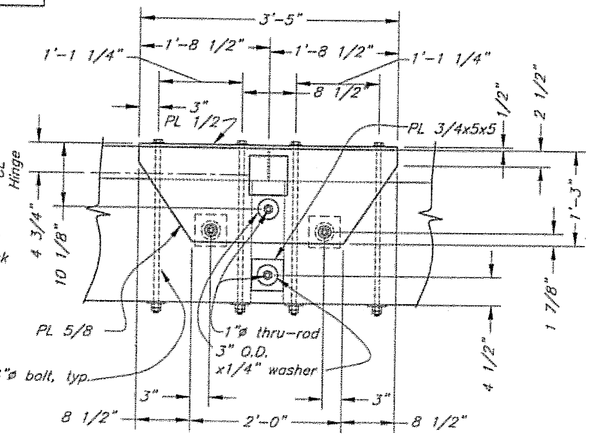
Note: All welds may not be shown. Weld all contacts w/ 1/4" fillet weld unless otherwise noted.



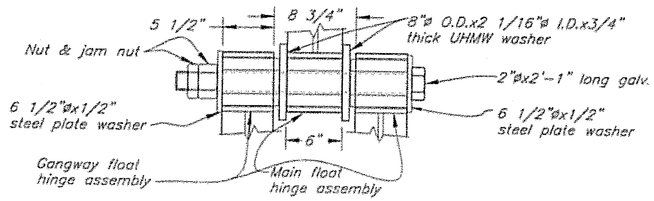
Section A-A
Main Float Hinge Assembly



Section B-B
Gangway Float Hinge Assembly



View F-F



Typ Hinge Pin Connection

AS BUILTS DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

DESIGNED BY: K. Miller
DRAWN BY: C. Furman
CHECKED BY: J. Beedle

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STATEWIDE DESIGN & ENGINEERING SERVICES DIVISION

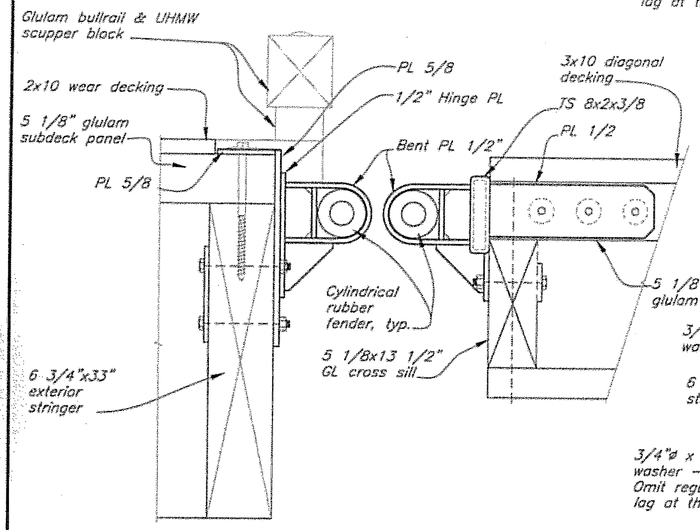
STATE OF ALASKA 49th Kirk D. Miller CE-8550 REGISTERED PROFESSIONAL ENGINEER
3/31/06

Coffman Cove Seaplane Float Relocation
Project 67904

Main Float to Gangway Float Hinge Details

PATH: O:\Pow\67904\MF\Planset\29 Main to Gangway Hinge details.dwg
PLOT: PSPACE 1=1 Tab: Hinges Wed, 29/Mar/06 09:43AM

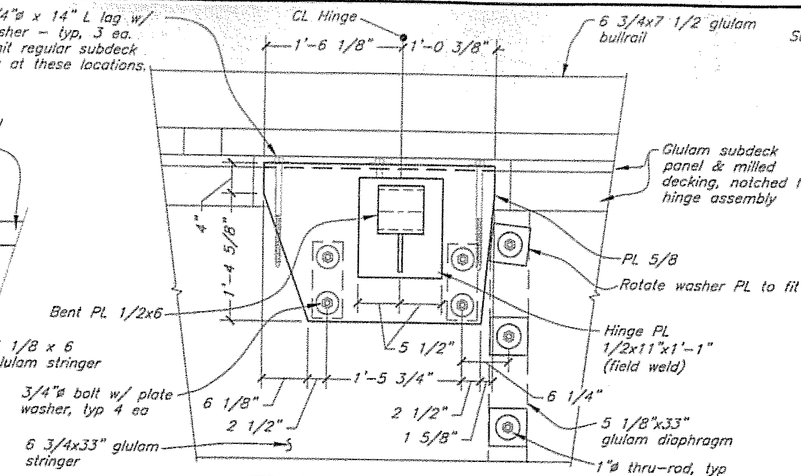
REVISIONS NO.	DATE	DESCRIPTION	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			67904	2006	29	39



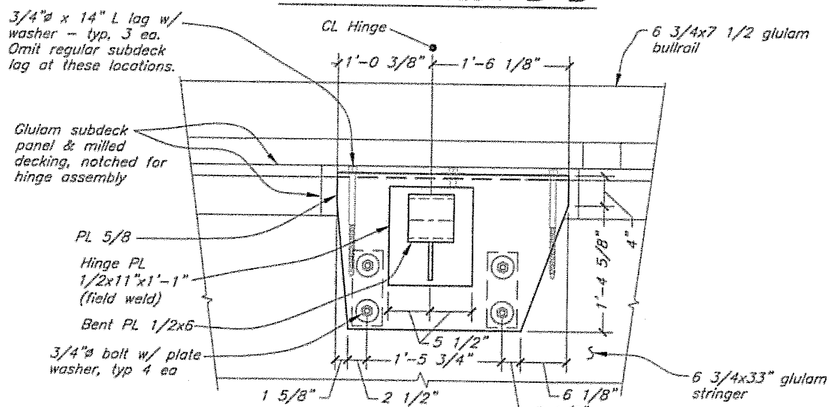
Sectional Elevation
Gangway Float to Ramp Float

Notes:
1. All welds may not be shown. Weld all contacts w/ 1/4" fillet weld both sides unless otherwise noted. Also see Sheet 29 (similar).

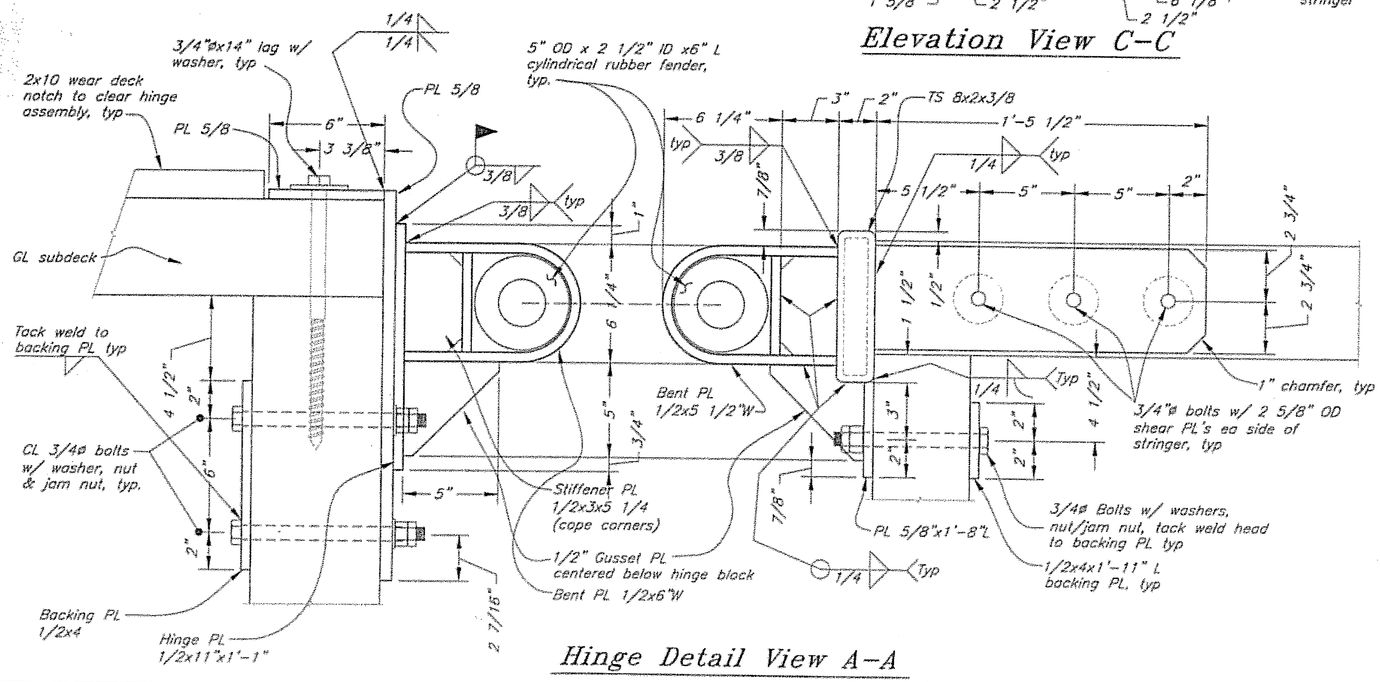
2. Hinge Assembly: Assemble all hinge parts to ramp float. Align ramp float to gangway float in plan position at mid-tide with the gangway and all permanent dead loads fully supported by the gangway float. Mark vertical location of hinge plates. Disassemble hinges and field weld gangway float hinge plate. Connect floats with hinge pin after welding is complete.



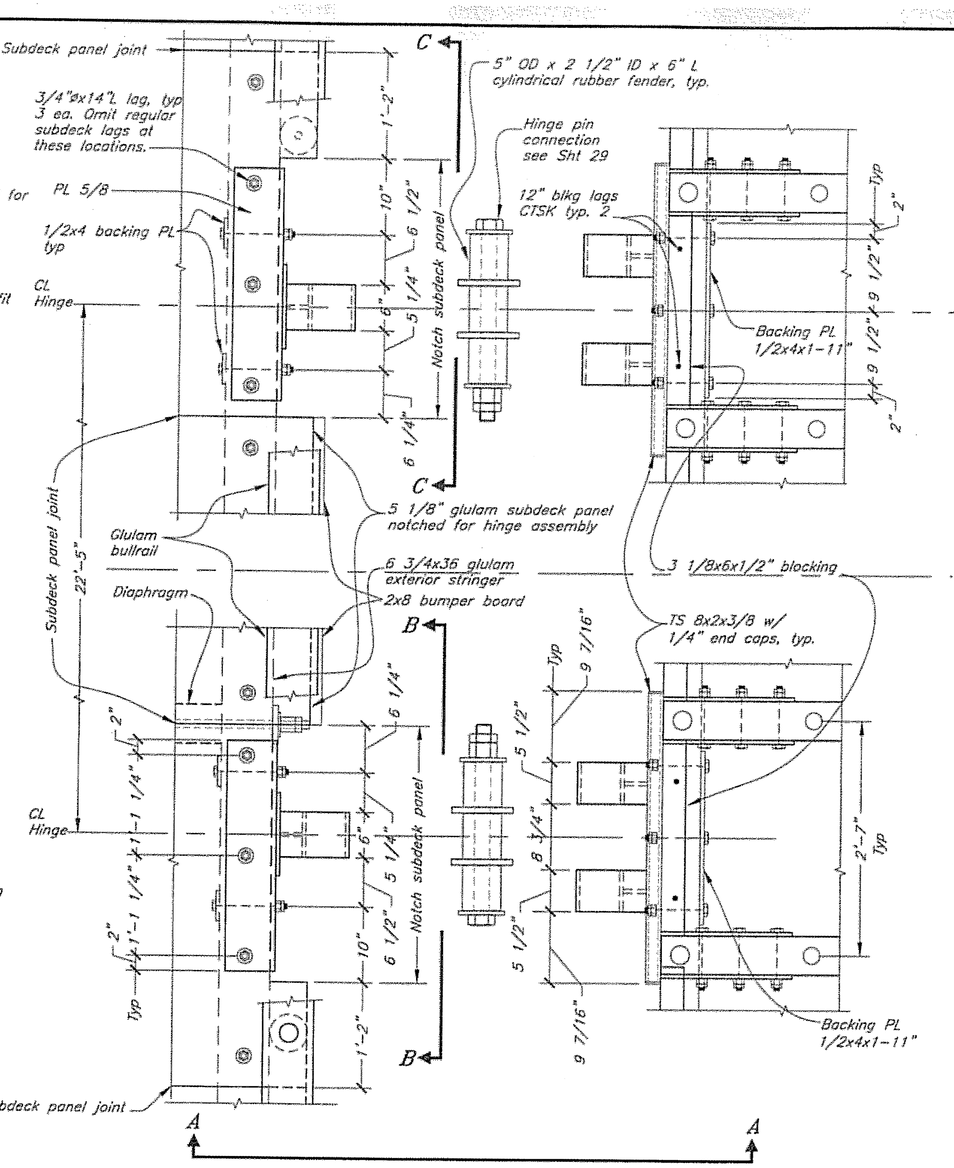
Elevation View B-B



Elevation View C-C



Hinge Detail View A-A



Plan
Gangway to Ramp Float Hinges

AS-BUILTS

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CHECKED BY: J. Beedle

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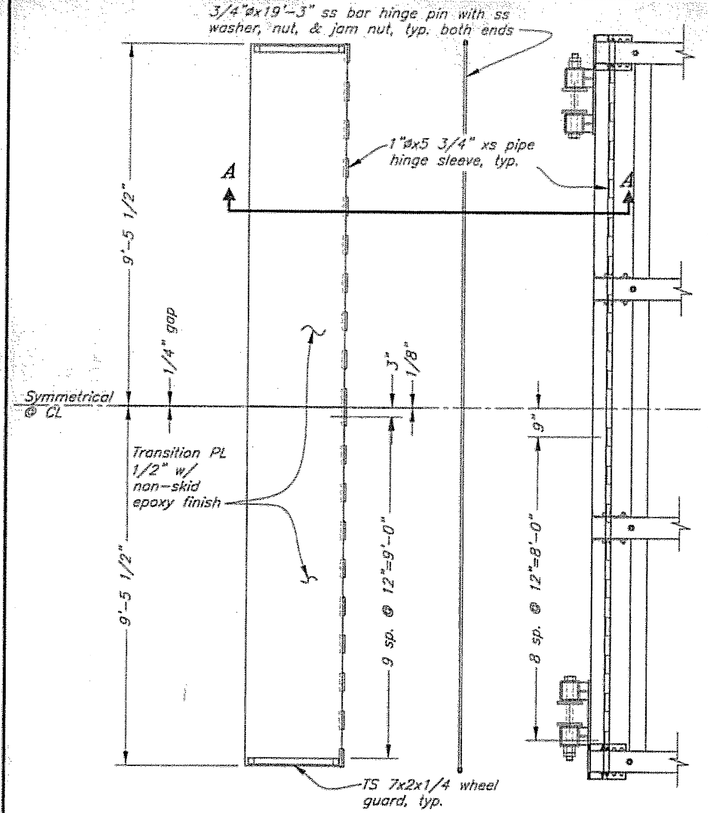
Kirk D. Miller CE-8550 49th STATE OF ALASKA REGISTERED PROFESSIONAL ENGINEER
3/31/06

Coffman Cove Seaplane Float Relocation
Project 67904

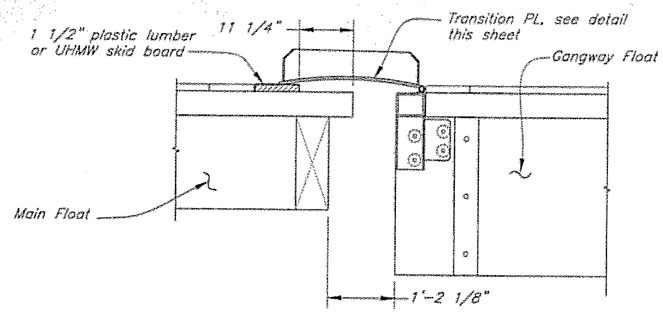
Ramp Float to Gangway Float Hinge

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PLOT: PSPACE 1=1
Tue, 28/Mar/06 11:37AM

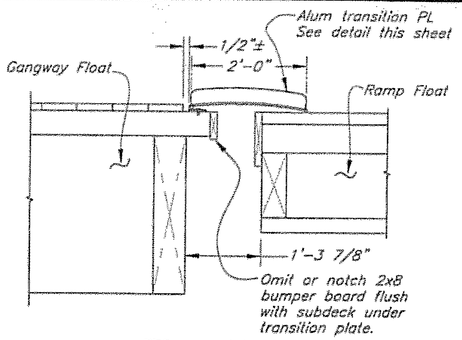
REVISIONS NO.	DATE	DESCRIPTION	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
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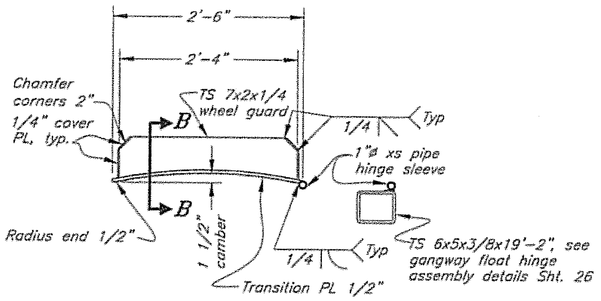
Transition PL Plan
Gangway to Main Float



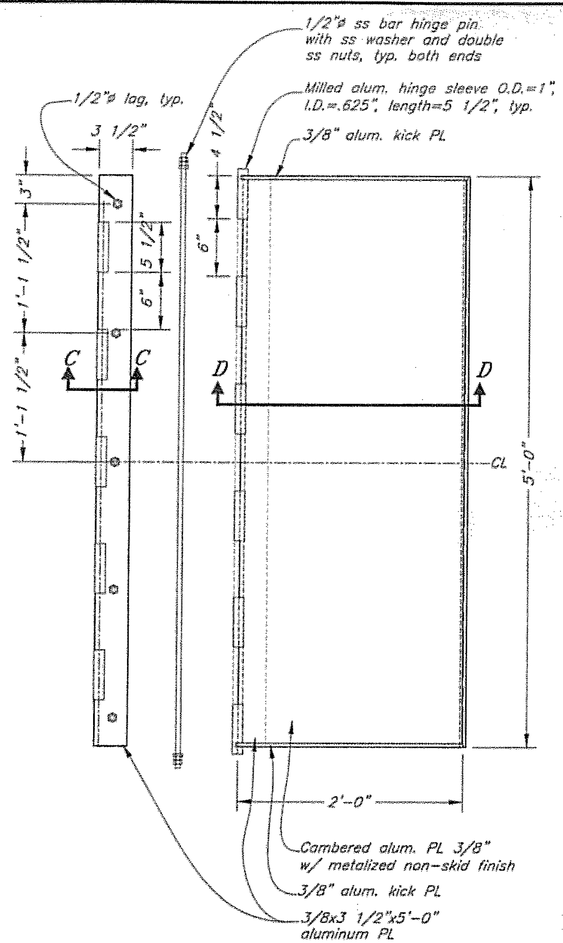
Elevation
Main Float to Gangway Float



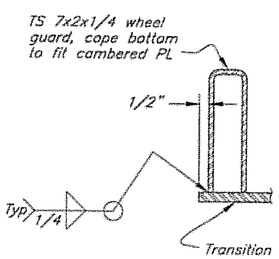
Elevation
Gangway Float to Ramp Float



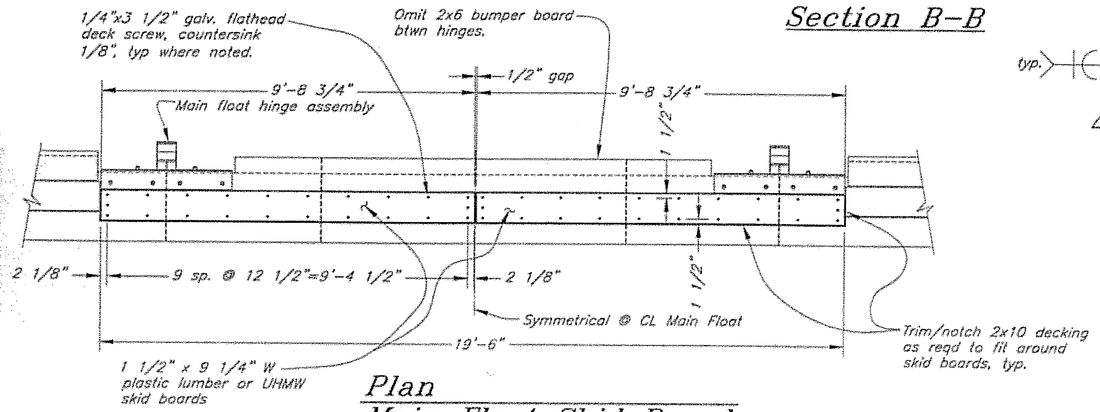
Section A-A



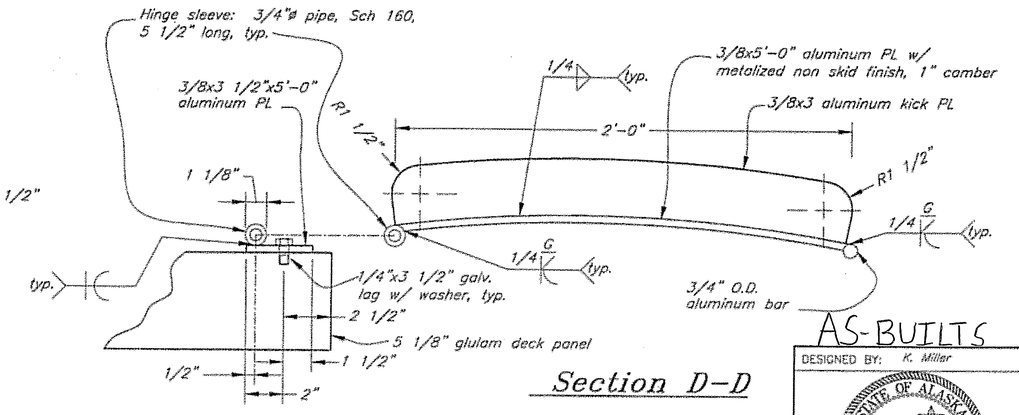
Transition PL Plan
Gangway to Ramp Float



Section B-B



Plan
Main Float Skid Board



Section C-C

Section D-D

AS-BUILTS

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CHECKED BY: J. Beedle

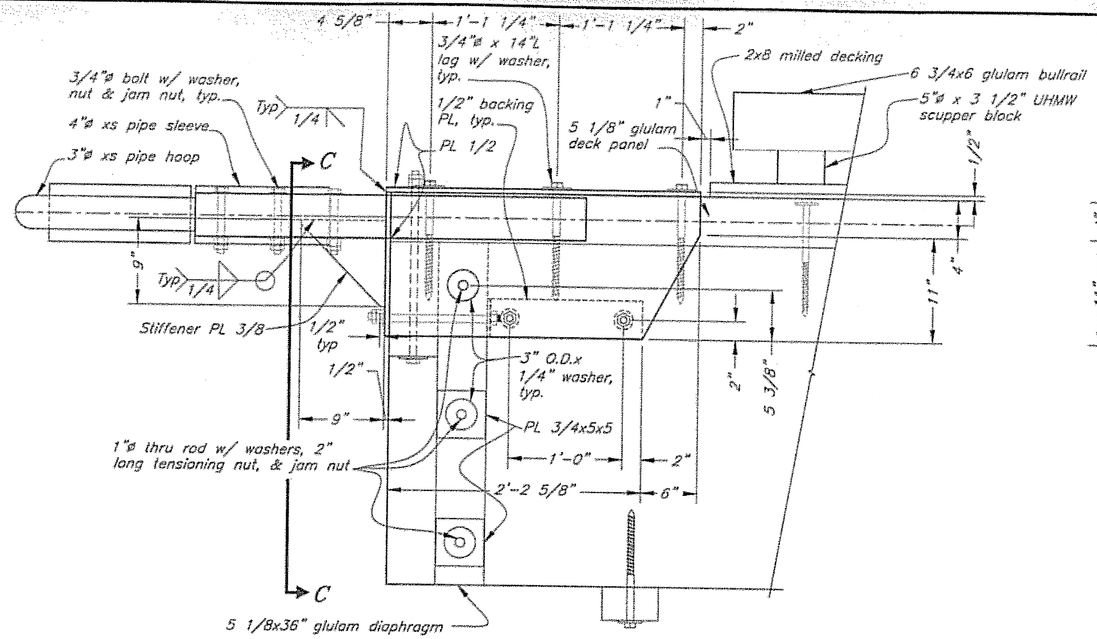
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
STATEWIDE DESIGN & ENGINEERING SERVICES DIVISION

Coffman Cove Seaplane Float Relocation
Project 67904

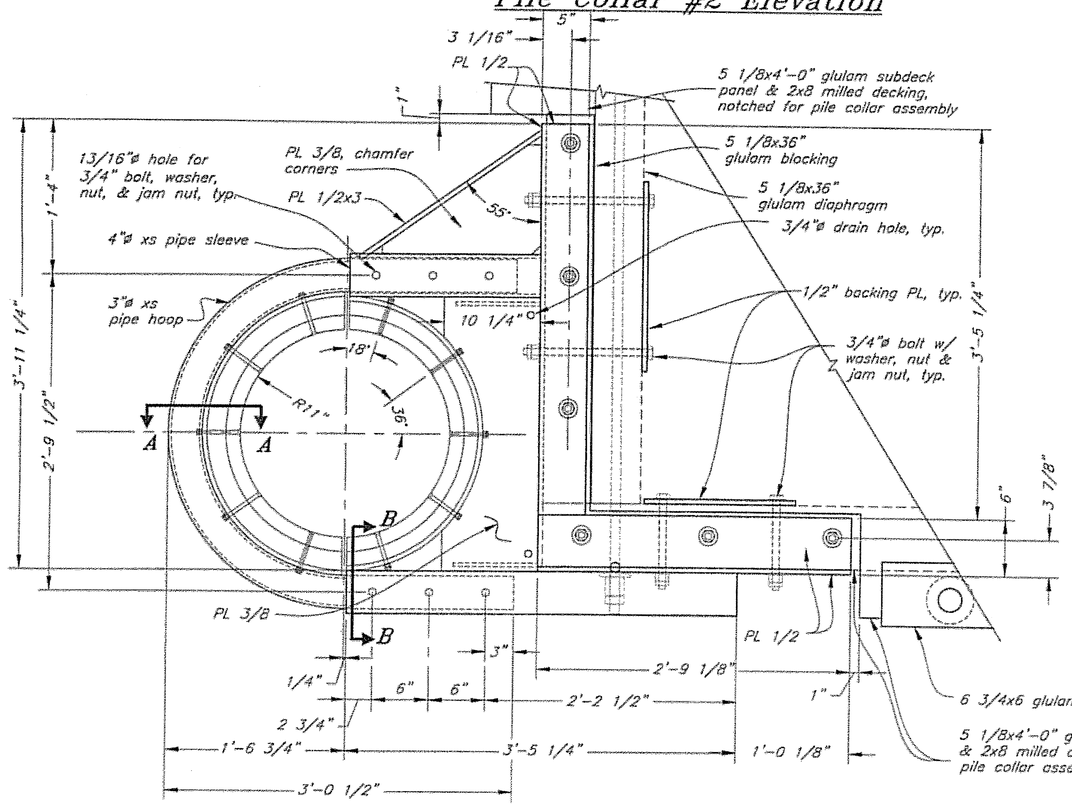
Transition Plate Details

PATH: O:\Pow\67904\MF\Planset\31 Transition PL Details.dwg
PLOT: PSPACE 1=1 Tab: Trans PL Tue, 21/Mar/06 03:25PM

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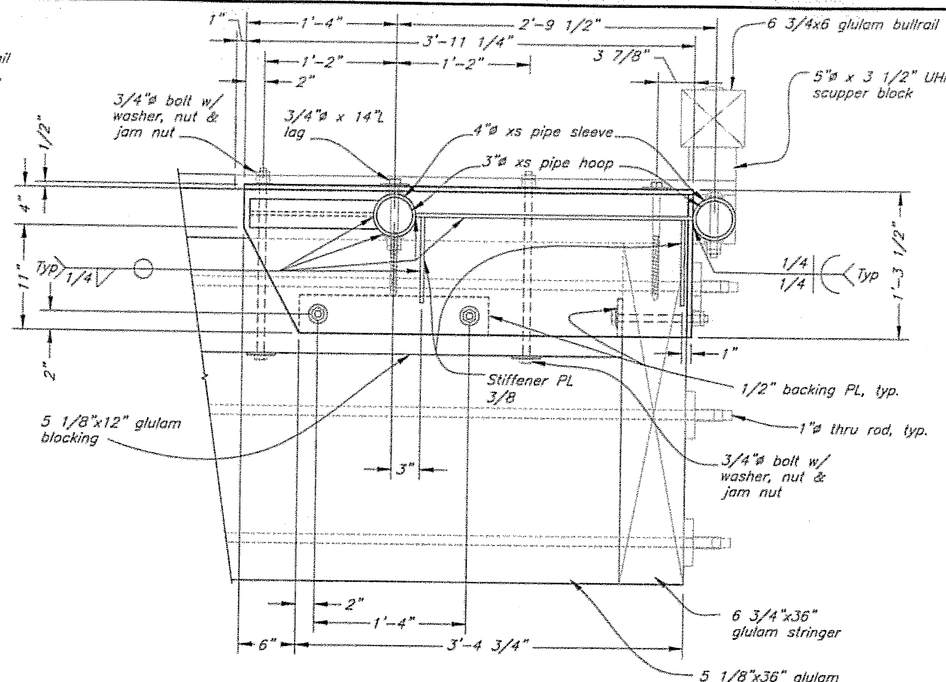


Pile Collar #2 Elevation

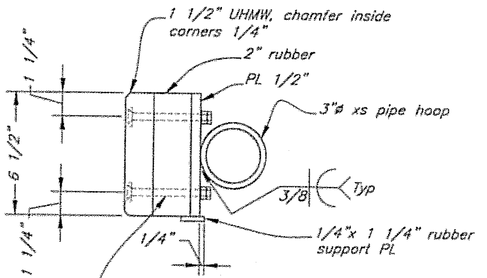


Pile Collar #2 Plan

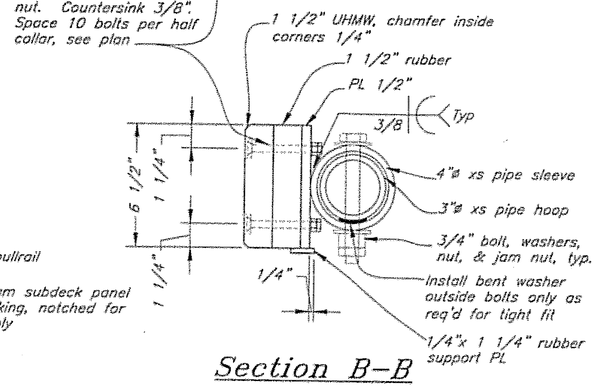
(Pile collar #1 opposite hand)



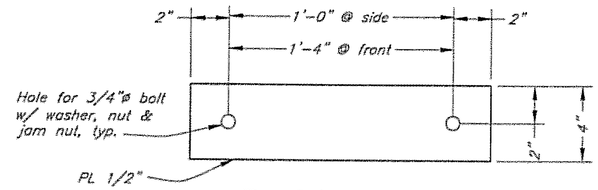
Section C–C



Section A–A



Section B–B



Backing Plates

Note: All welds may not be shown. Weld all contacts w/ 1/4" fillet weld unless otherwise noted.

AS-BUILTS

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CHECKED BY: J. Baldle

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

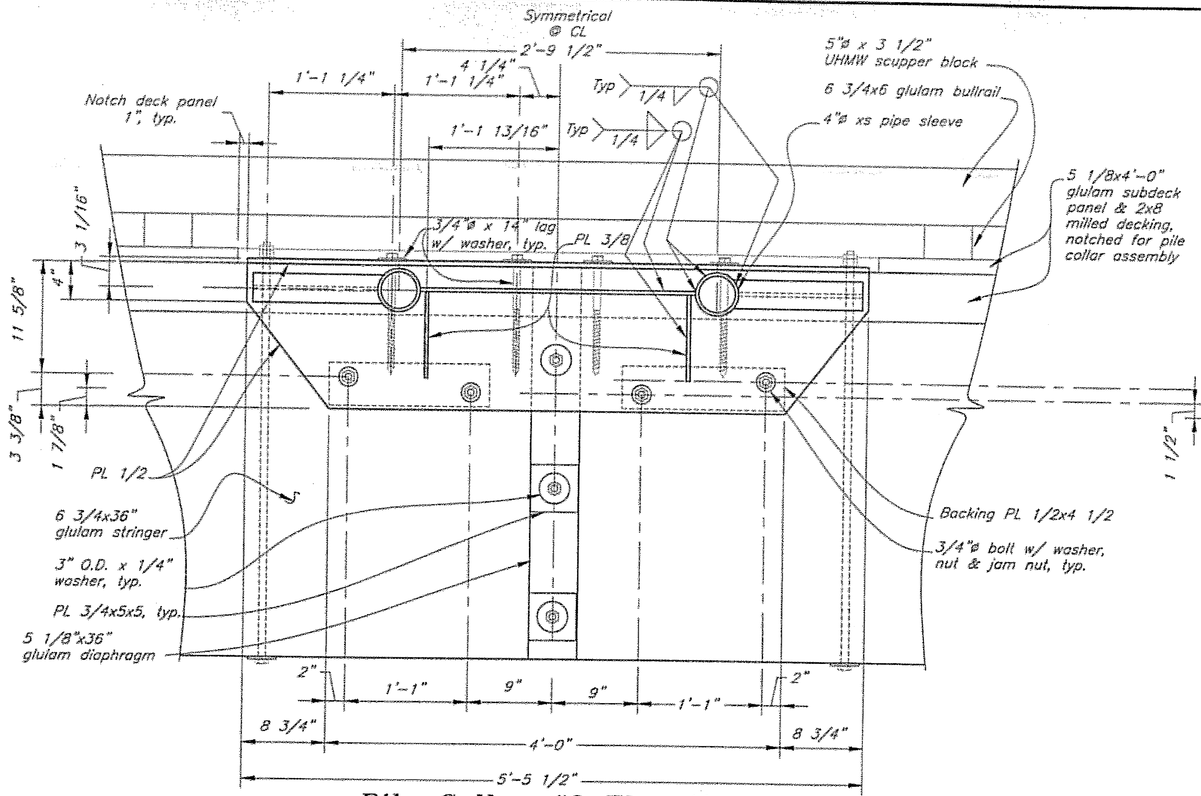
STATE OF ALASKA 49th Kirk D. Miller CE-8550 REGISTERED PROFESSIONAL ENGINEER

5/31/06

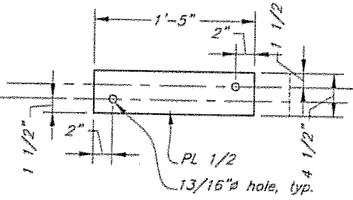
Coffman Cove Seaplane Float Relocation
Project 67904
Gangway Float Pile Collars #1 & #2

PATH: Q:\Pow\67904\MF\Planset\32 GW pile collar 1 & 2.dwg
PLOT: PSPACE 1=1
Wed, 29/Mar/06 10:45AM

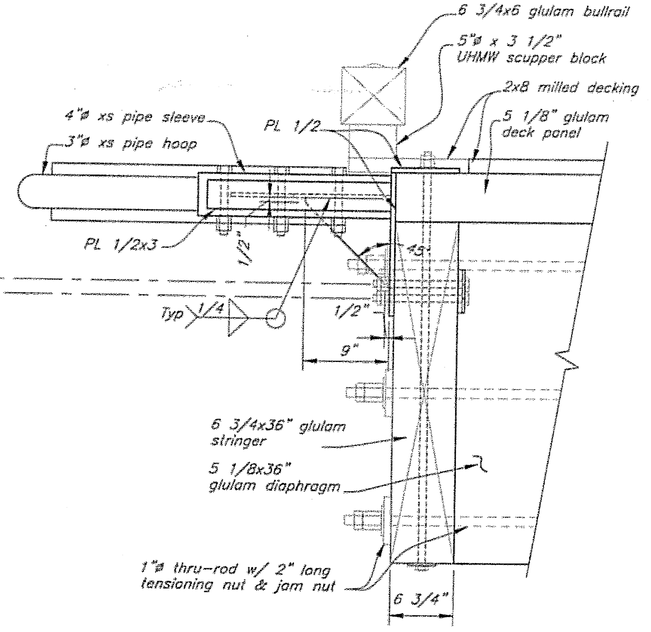
REVISIONS NO.	DATE	DESCRIPTION	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			67904	2006	32	39



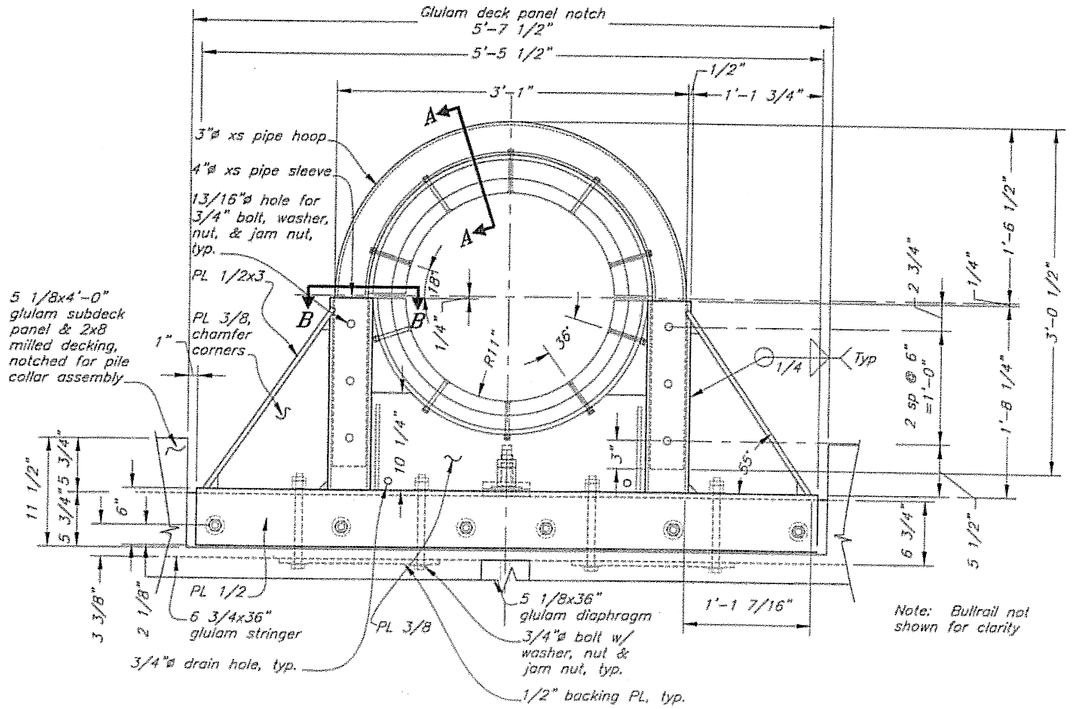
Pile Collar #3 Elevation



Backing PL

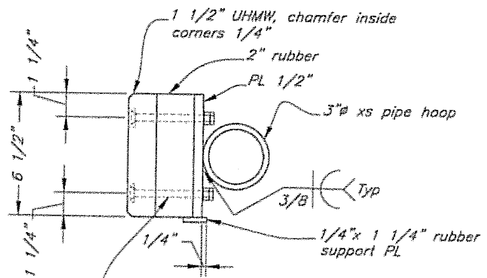


Pile Collar #3 Side View

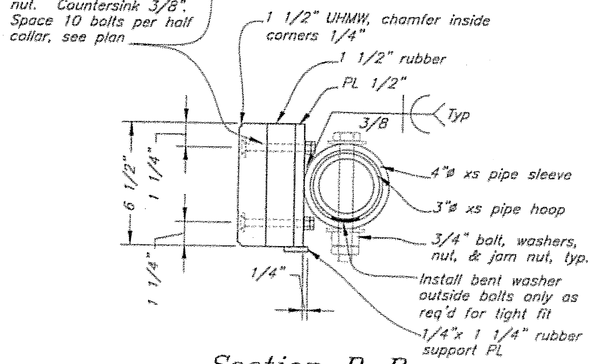


Pile Collar #3 Plan

Note: Bullrail not shown for clarity



Section A-A



Section B-B

Note: All welds my not be shown. Weld all contacts w/ 1/4" fillet weld unless otherwise noted

AS-BUILTS

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DRAWN BY: C. Fuman
CHECKED BY: J. Beedle

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CE-8550
REGISTERED PROFESSIONAL ENGINEER
3/31/06

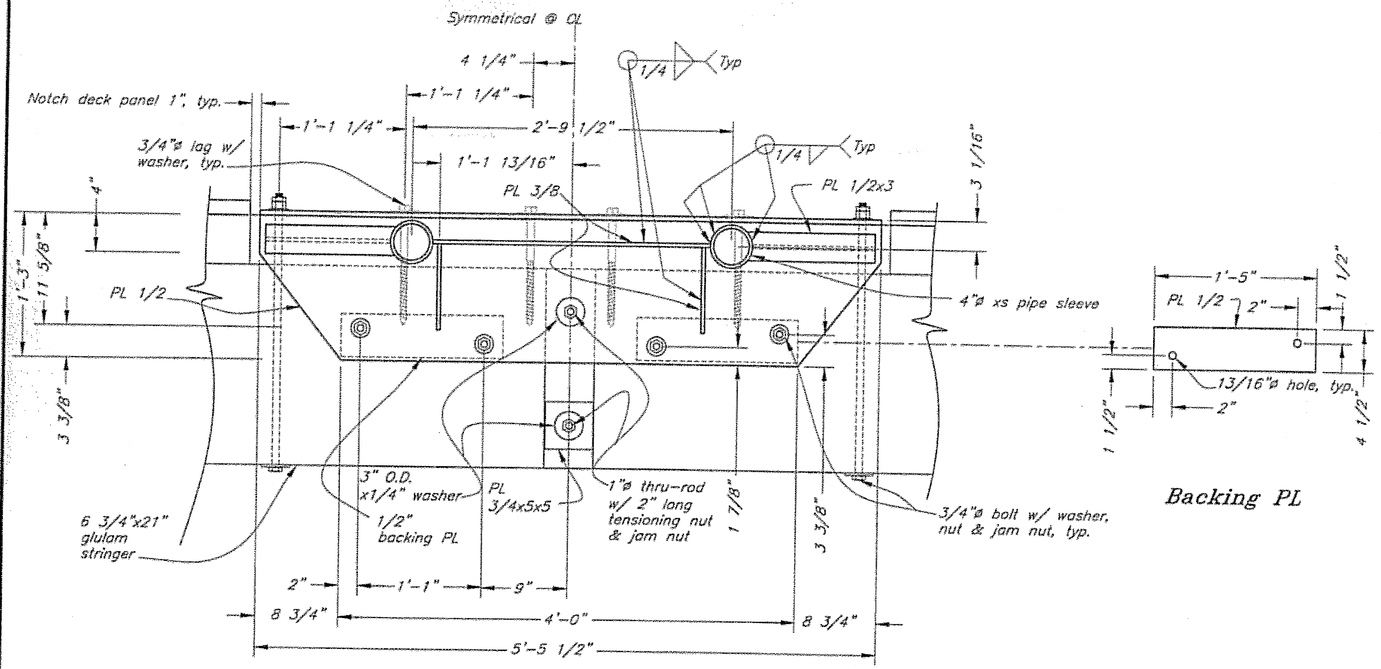
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
STATEWIDE DESIGN & ENGINEERING SERVICES DIVISION

Coffman Cove Seaplane Float Relocation
Project 67904

Gangway Float Pile Collar #3

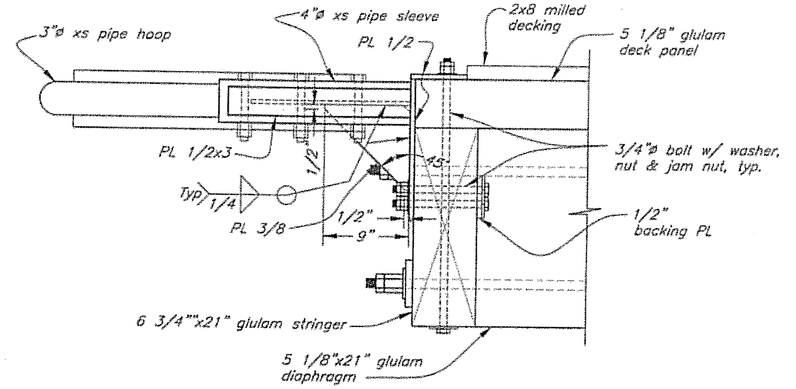
PATH: O:\Pow\67904\MF\Planset\JJ GW Pile Collar 3.dwg
PLOT: PSPACE 1 to 1
Wed, 29/Mar/06 10:45AM

REVISIONS NO.	DATE	DESCRIPTION	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			67904	2006	33	39

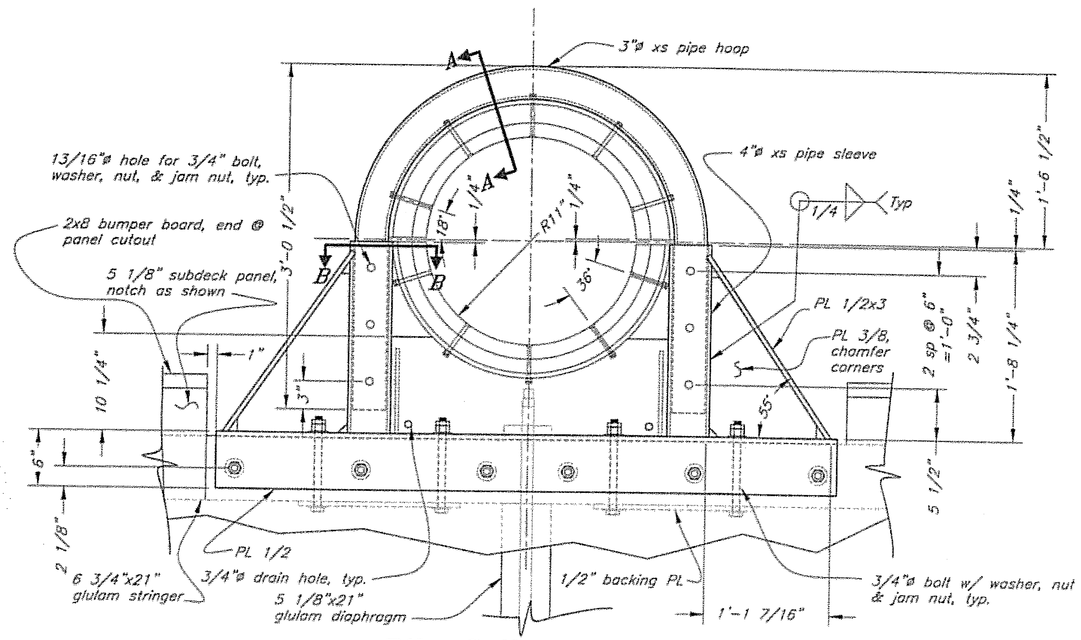


Pile Collar #4 Elevation

Backing PL

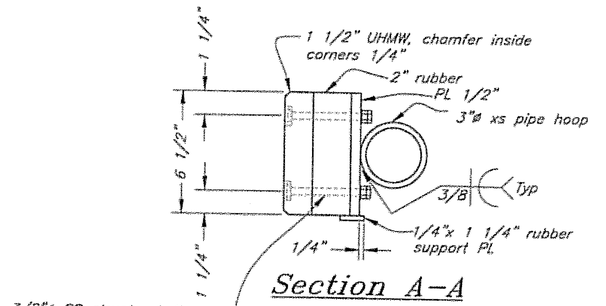


Pile Collar #4 Side View



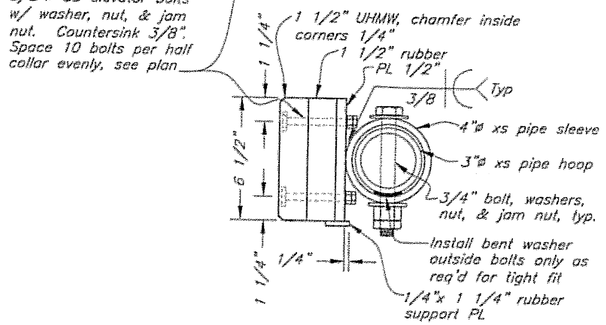
Note: Bullrail not shown for clarity

Pile Collar #4 Plan



Section A-A

3/8"ø SS elevator bolts w/ washer, nut, & jam nut. Countersink 3/8". Space 10 bolts per half collar evenly, see plan



Section B-B

Note: All welds my not be shown. Weld all contacts w/ 1/4" fillet weld unless otherwise noted

AS-BUILTS

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DRAWN BY: C. Fuman
CHECKED BY: J. Beedle

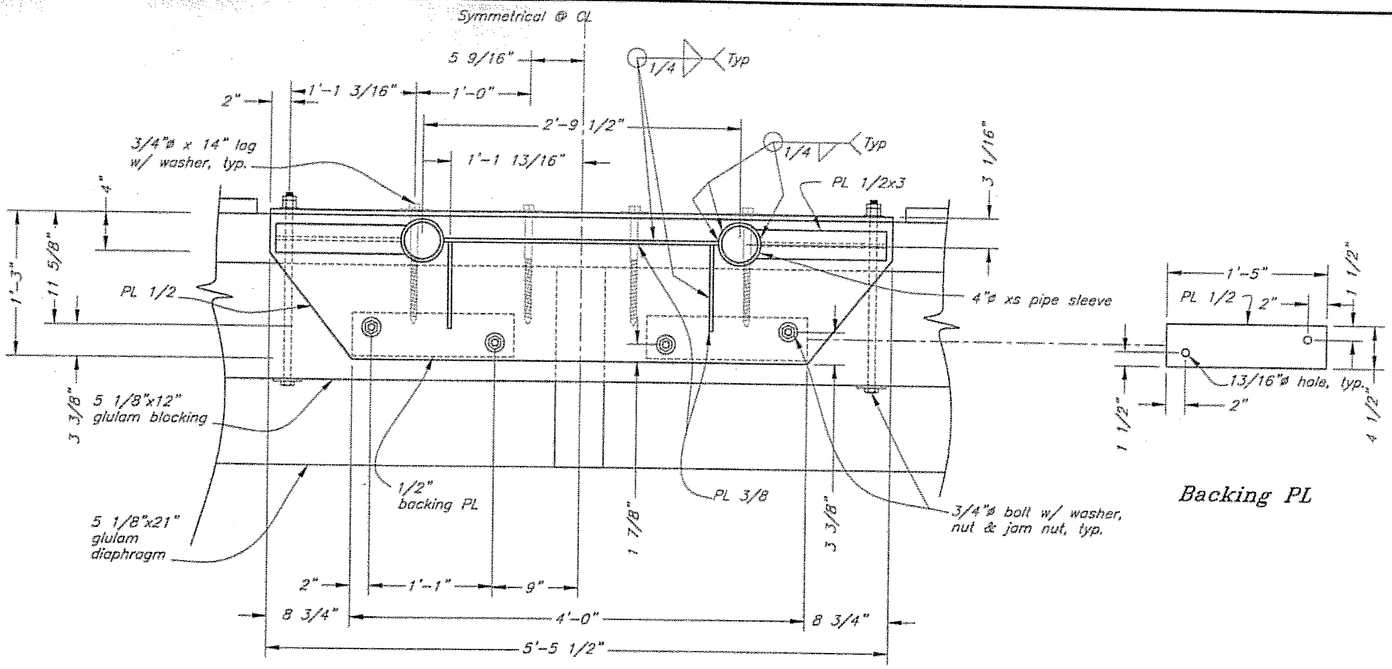
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
STATEWIDE DESIGN & ENGINEERING SERVICES DIVISION

Coffman Cove Seaplane Float Relocation
Project 67904

Main Float Pile Collar #4

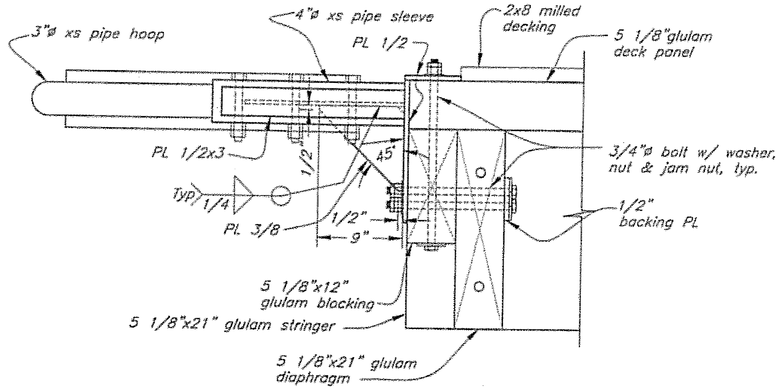
PATH: O:\Pow\67904\MF\Planset\34 Main Float Pile collar 4.dwg
PLOT: PSPACE 1=1 Tab: Pile Collars 4 Wed, 29/Mar/06 10:45AM

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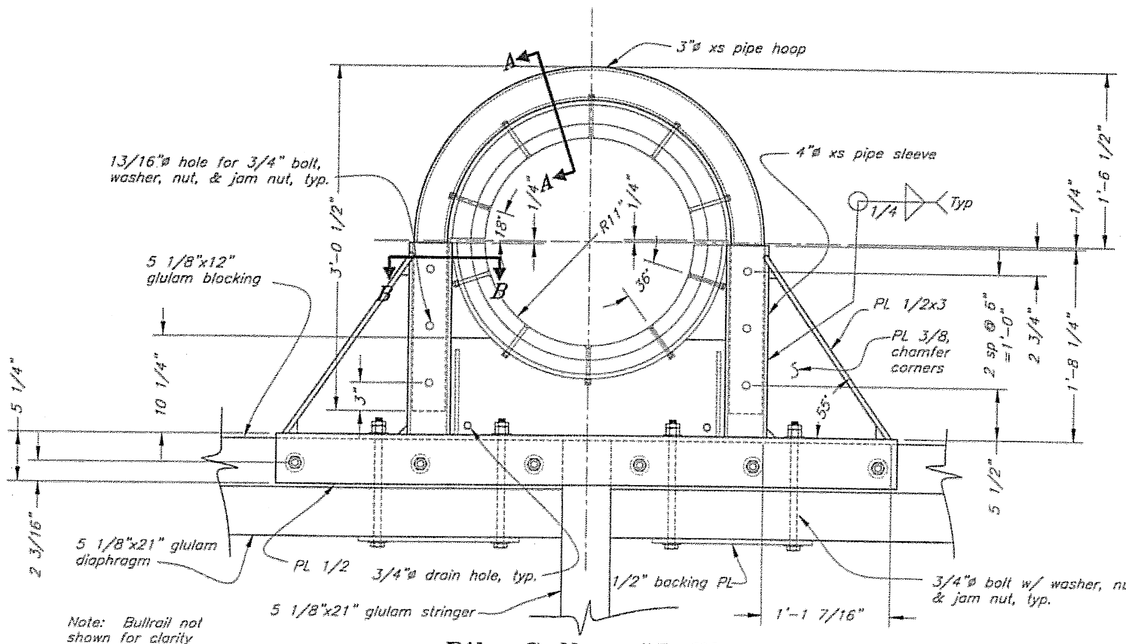


Pile Collar #5 Elevation

Backing PL

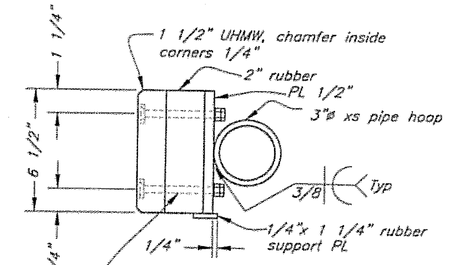


Pile Collar #5 Side View



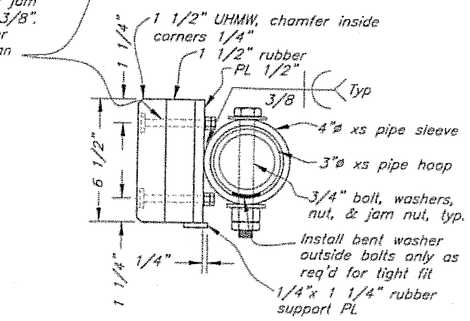
Note: Bullrail not shown for clarity

Pile Collar #5 Plan



Section A–A

3/8"ø SS elevator bolts w/ washer, nut, & jam nut. Countersink 3/8". Space 10 bolts per half collar, see plan



Section B–B

Note: All welds not shown. Weld all contacts w/ 1/4" fillet weld both sides unless otherwise noted.

AS-BUILTS

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CHECKED BY: J. Beedle

Kirk D. Miller CE-8550 REGISTERED PROFESSIONAL ENGINEER 3/31/06

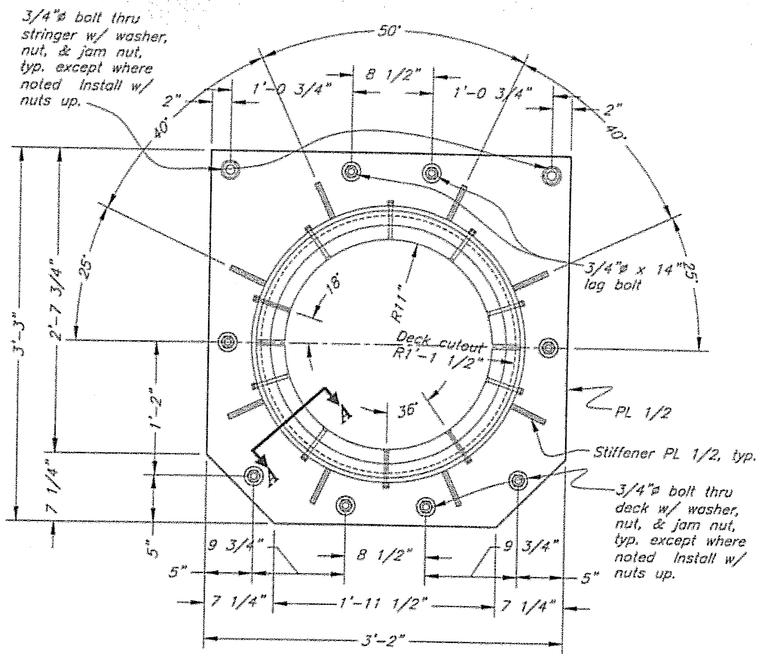
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
STATEWIDE DESIGN & ENGINEERING SERVICES DIVISION

Coffman Cove Seaplane Float Relocation
Project 67904

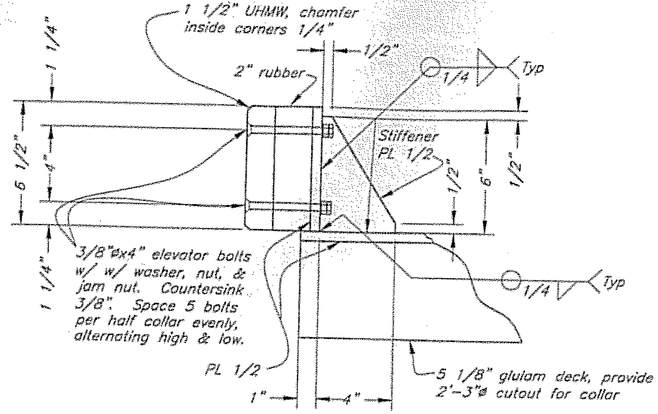
Main Float Pile Collar #5

PATH: Q:\Pow\67904\MF\Planset\35 Main Float Pile collar 5.dwg
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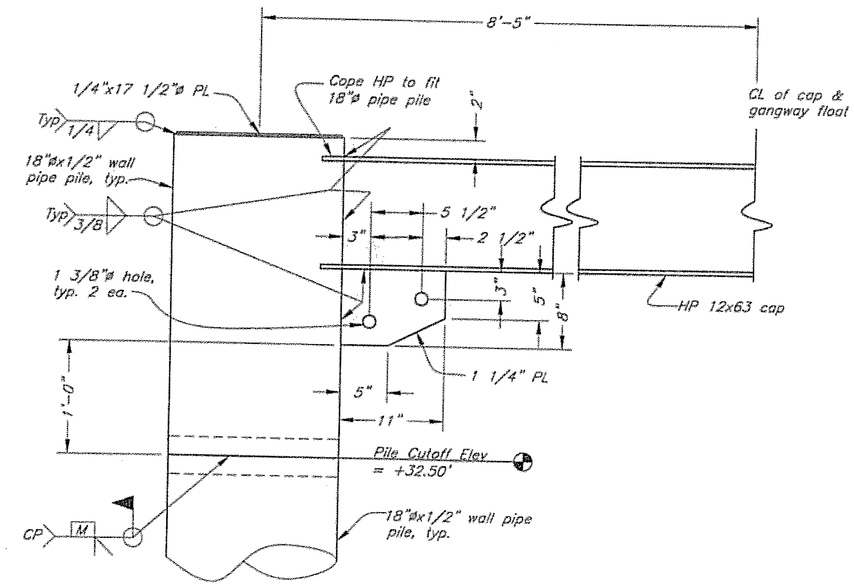
REVISIONS NO.	DATE	DESCRIPTION	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
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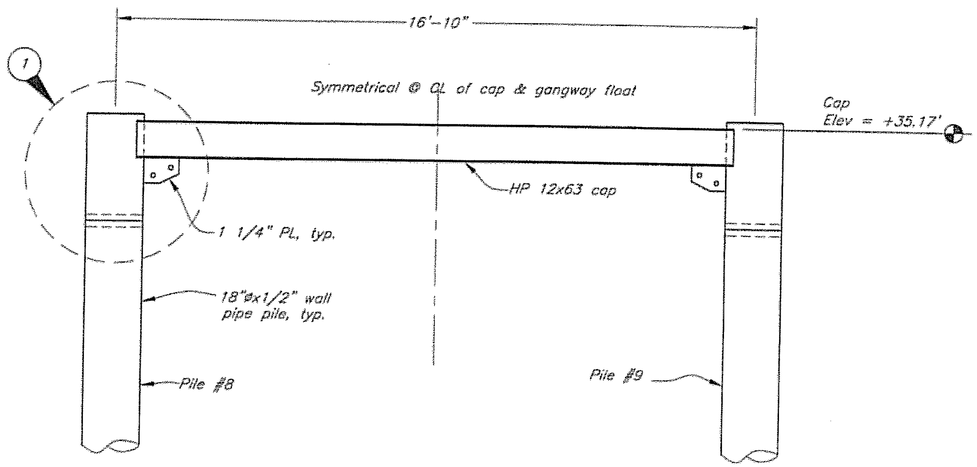
Interior Pile Collars #6 & #7



Section A-A



Detail 1



Gangway Float Pile Cap

AS-BUILTS DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

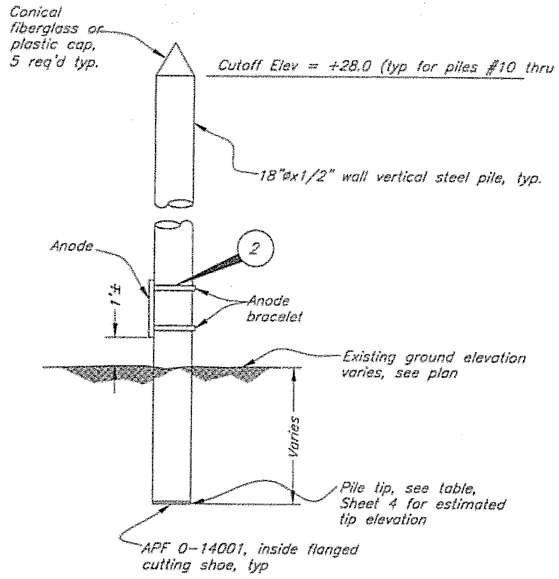
DESIGNED BY: K. Miller
DRAWN BY: C. Furman
CHECKED BY: J. Beedle

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

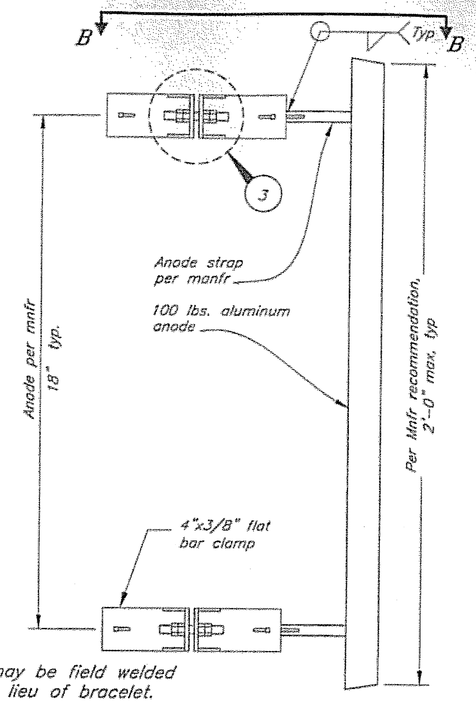
Coffman Cove Seaplane Float Relocation
Project 67904
Main Float
Interior Pile Collars #6 & #7 and Misc. Pile Details

PATH: Q:\Pow\67904\MF\Planset\36 Main Float Pile collar 6 &7.dwg
PLOT: PSPACE 1=1 Tab: Pile Collars interior Mon, 06/Feb/06 04:30PM

REVISIONS NO.	DATE	DESCRIPTION	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			67904	2006	36	39



Float Pile Detail



NOTE:
Anodes may be field welded to pile in lieu of bracelet.

Anode Bracelet Detail (2)

(10 ea. req'd)

3 for 16"ø piles on Bent 3
7 for 18"ø piles on float restraint piles

General Notes:

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

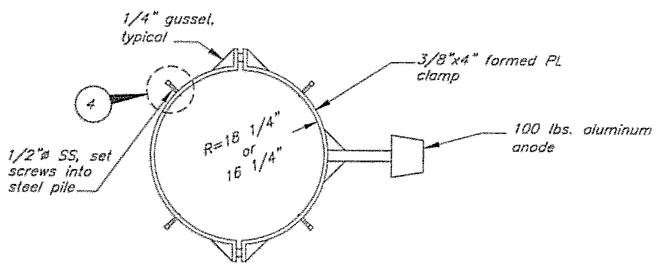
2. Anode materials shall be aluminum alloy conforming to the following minimum reqmts:

Current Capacity = 1,100 amp hours/lb
Efficiency = 85%
Min Voltage Potential = 1.1 volts (Cu/CuSO4 reference electrode in seawater).

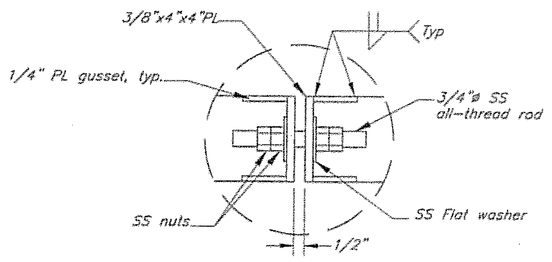
Dimensions of anodes shall be determined by the manufacturer.

3. Unless otherwise noted, all connection hardware shall be stainless steel, Type 316.

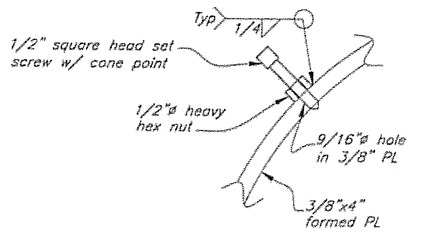
4. Repair all field welds and damaged coatings in accordance with Section 504 of the Contract Specifications.



Section B-B



Clamp Connection Detail (3)



Set Screw Detail (4)

AS-BUILTS

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

DESIGNED BY: K. Miller
DRAWN BY: C. Fuman/Staff
CHECKED BY: J. Beedle

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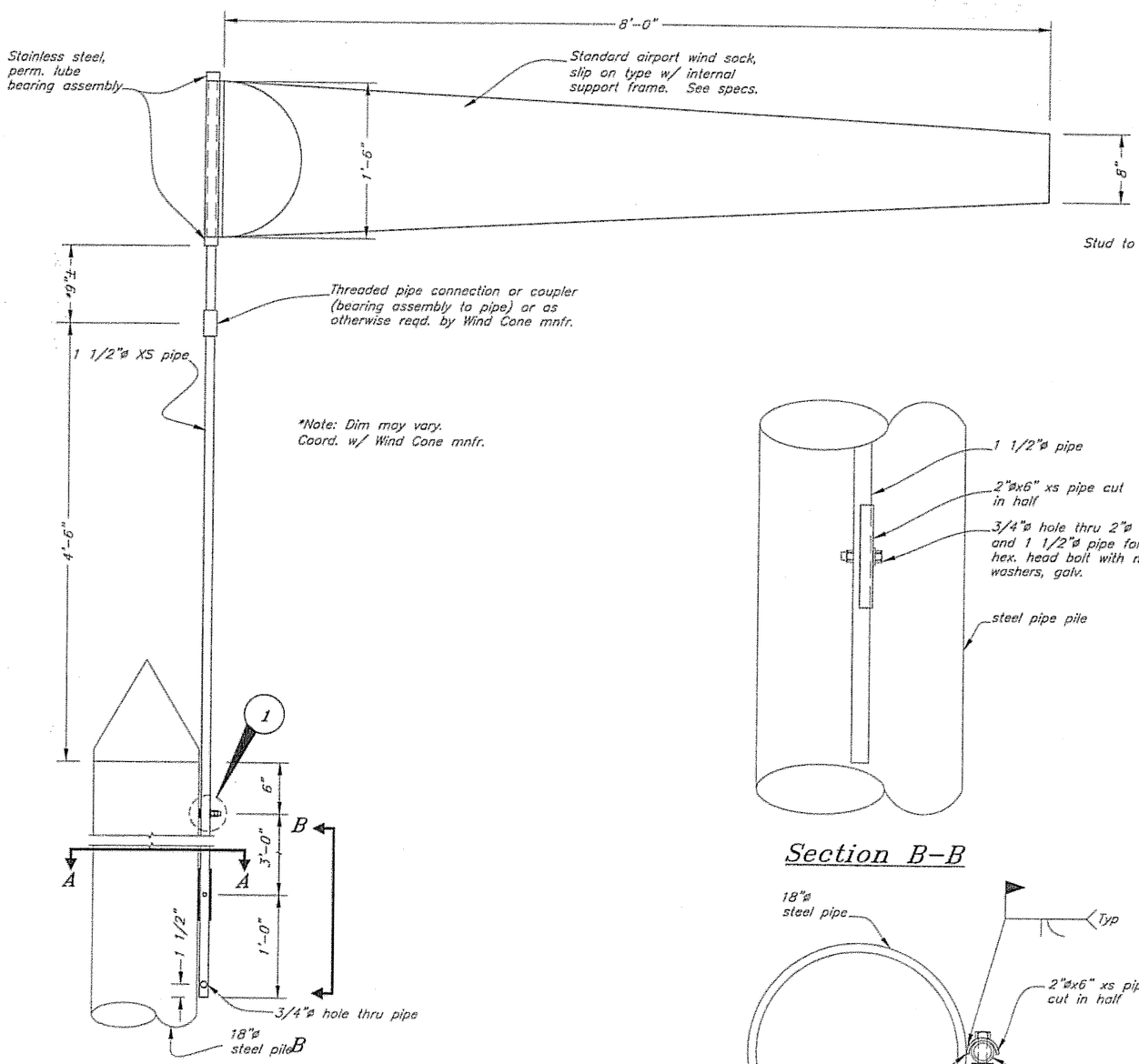
Coffman Cove Seaplane Float Relocation
Project 67904

Anode & Pile Details

Kirk B. Miller CE-8550 REGISTERED PROFESSIONAL ENGINEER STATE OF ALASKA 49th
2/3/06

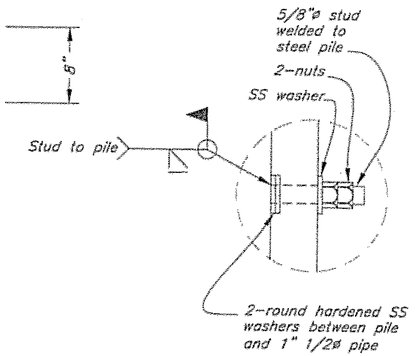
PATH: O:\Pow\67904\MF\Planset\37 Anode & Pile Details.dwg
PLOT: PSPACE 1=1 TAG: DETAIL Mon, 06/Feb/06 04:32PM

REVISIONS NO.	DATE	DESCRIPTION	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			67904	2006	37	39

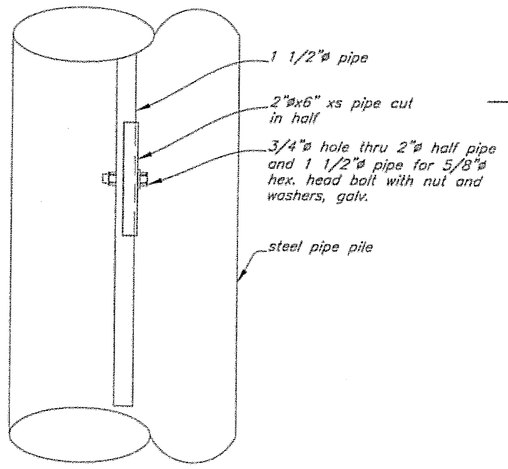


Wind Cone Detail

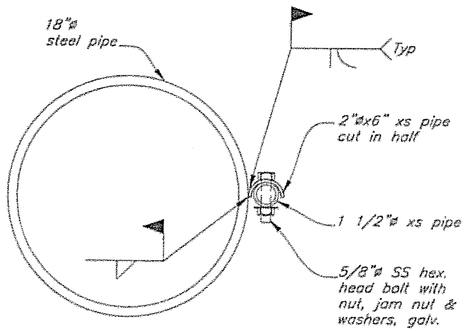
1 Req'd – Install on seaward face of Pile (14)



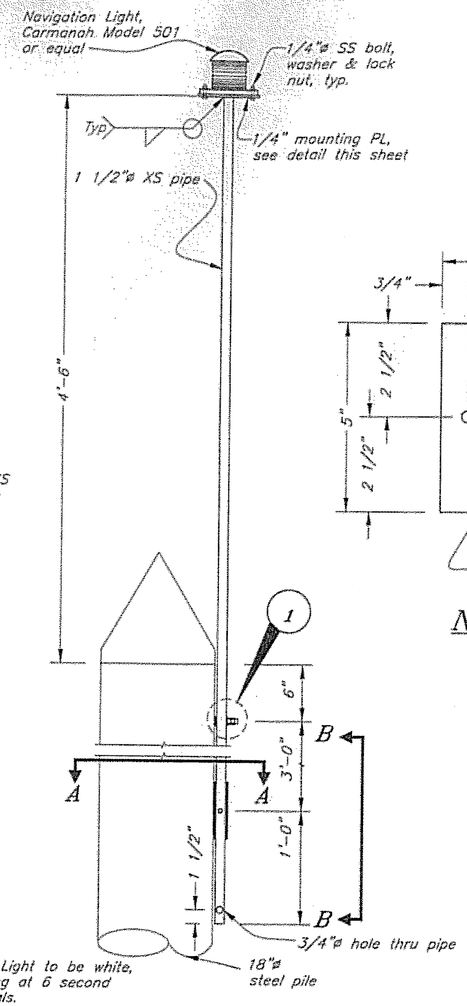
Detail 1



Section B–B



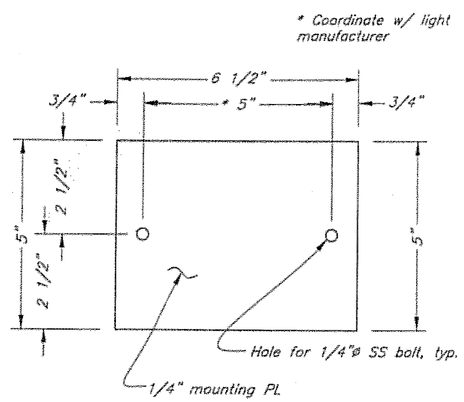
Section A–A



Note: Light to be white, flashing at 6 second intervals.

Navigation Light Detail

1 Req'd – Install on seaward face of Pile (11)
(Install to rotate toward float side)



Navigation Light Mounting PL

AS-BUILTS

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

DESIGNED BY: K. Miller
CHECKED BY: J. Beedle
DRAWN BY: C. Fuman

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

STATE OF ALASKA 49TH Kirk D. Miller CE-8550 REGISTERED PROFESSIONAL ENGINEER 3/2/06

Coffman Cove Seaplane Float Relocation
Project 67904

Wind Cone & Navigation Light Details

PATH: O:\Pow\67904\MF\Planset\38 Wind Cone & Light.dwg
PLOT: PSPACE 1=1 Tab: Layout1 Fri, 10/Feb/06 09:14AM

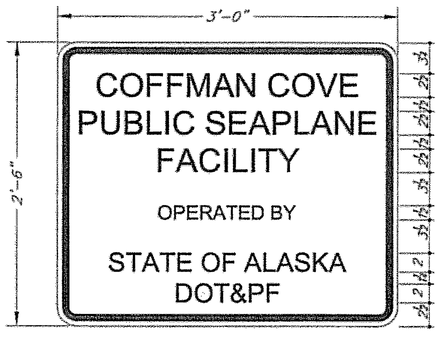
REVISIONS NO.	DATE	DESCRIPTION	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			67904	2006	38	39

Sign Notes:

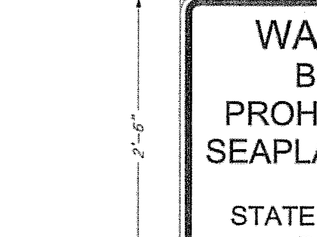
1. See Sheet 4 for sign locations.
2. All signs shall have a black legend on white reflective background.
3. Sign lettering shall conform to the size and style as shown in the plans and the Alaska Sign Design Designation (ASDS).
4. Install signs "A" & "B" near top of float piles #12 & #13. Align so that signs are visible to traffic approaching from water side. Secure the signs to pile with channel bracket & hardware as noted on detail drawings.
5. Install signs "B", "C" and "D" on perforated metal posts near head of trestle as noted on detail drawing. Exact location of sign will be designated in the field by the Engineer.
6. Install sign "D" on the north side of the seaward trestle end facing traffic. Affix to face of TS 4x3 traffic rails with self-tapping metal screws or drill and tap TS rails for 1/4" machine bolts. Use four screws or bolts (two per each rail, top and bottom).



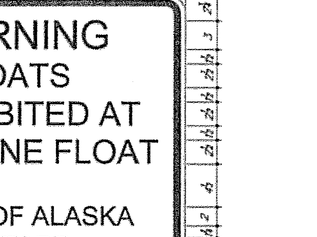
Sign "A"
(1 req'd)



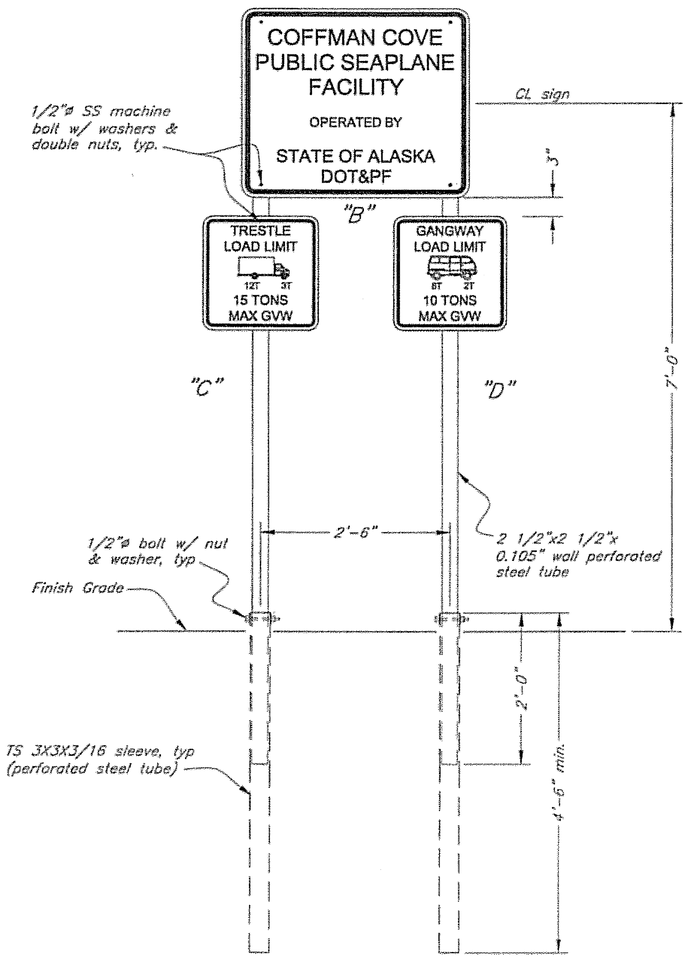
Sign "B"
(2 req'd)



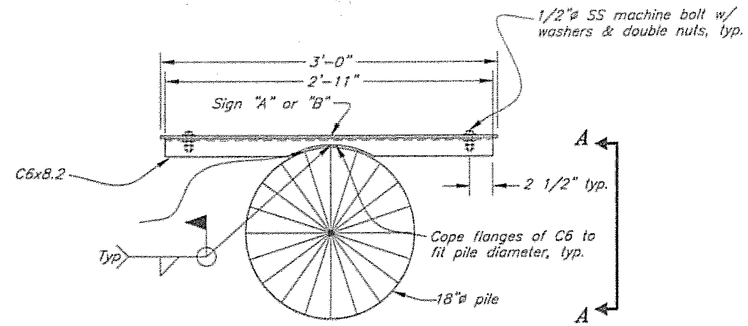
Sign "C"
(1 req'd)



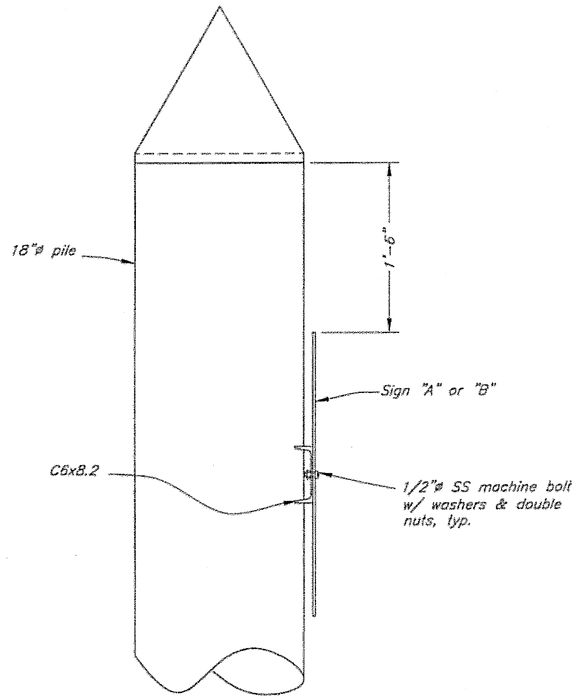
Sign "D"
(2 req'd)



Sign Mounting at Approach



Plan



Section A-A

Float Pile Mounted Sign Details

AS-BUILTS

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
STATEWIDE DESIGN & ENGINEERING SERVICES DIVISION

Coffman Cove Seaplane Float
Relocation
Project 67904

Sign Details

Kirk O. Miller CE-8550 REGISTERED PROFESSIONAL ENGINEER STATE OF ALASKA 49 TH
3/31/06

PATH: O:\Pow\67904\MF\Planset\39 Sign Details .dwg
PLOT: PSPACE 1=1 Tab: Layout1 Tue, 28/Mar/06 03:16PM

REVISIONS NO.	DATE	DESCRIPTION	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			67904	2006	39	39