

Estimate of Quantities

Item No.	Pay Item	Pay Unit	Quantity
202 (1)	Removal of Structures & Obstructions	Lump Sum	All Required
203 (19)	Borrow	Lump Sum	All Required
301 (5)	Crushed Aggregate Base Course, Grading D-1	Lump Sum	All Required
504 (1)	Trestle Backwall & Approach Slab	Lump Sum	All Required
504 (2)	21'x128'-4" Steel Approach Trestle Structure	Lump Sum	All Required
504 (3)	11' x 100' Steel Gangway	Lump Sum	All Required
504 (4)	Float Restraint Pile Cap & Pipe Braces	Lump Sum	All Required
505 (1)	16" dia. x 1/2" Wall Pipe Piles, Furnished	Linear Foot	880
505 (2)	16" dia. x 1/2" Wall Pipe Piles, Driven	Each	17
505 (3)	20" dia. x 1/2" Wall Pipe Piles, Furnished	Linear Foot	250
505 (4)	20" dia. x 1/2" Wall Pipe Pile, Driven	Each	4
505 (5)	Drilled Rock Socket for 16" dia. Pile	Each	8
505 (6)	Tensioned Rock Anchor for 16" Diam Pile	Each	6
505 (7)	Tensioned Rock Anchor for 20" Diam Pile	Each	4
505 (8)	100 lb Anode for 16" Diam Pile	Each	14
505 (9)	100 lb Anode for 20" Diam Pile	Each	4
505 (10)	Navigation Light - Pile Mounted	Lump Sum	All Required
505 (11)	Wind Cone - Pile Mounted	Lump Sum	All Required
506 (1)	58'x80.5' Timber Mooring Float	Lump Sum	All Required
606 (1)	W-Beam Guardrail	Linear Foot	275
606 (6)	Removing And Disposing Of Guardrail	Linear Foot	65
607 (7)	10-foot Double Swing Gate	Lump Sum	All Required
611 (3)	Riprap, Class RR 700	Lump Sum	All Required
615 (7)	Signs	Lump Sum	All Required
640 (1)	Mobilization and Demobilization	Lump Sum	All Required
640 (4)	Worker Meals and Lodging, or Per Diem	Lump Sum	All Required
641 (1)	Erosion And Pollution Control Administration	Lump Sum	All Required
641 (2)	Temporary Erosion And Pollution Control	Contingent Sum	All Required
642 (1)	Construction Surveying	Lump Sum	All Required
644 (1)	Field Office	Lump Sum	All Required
644 (6)	Vehicles	Lump Sum	All Required

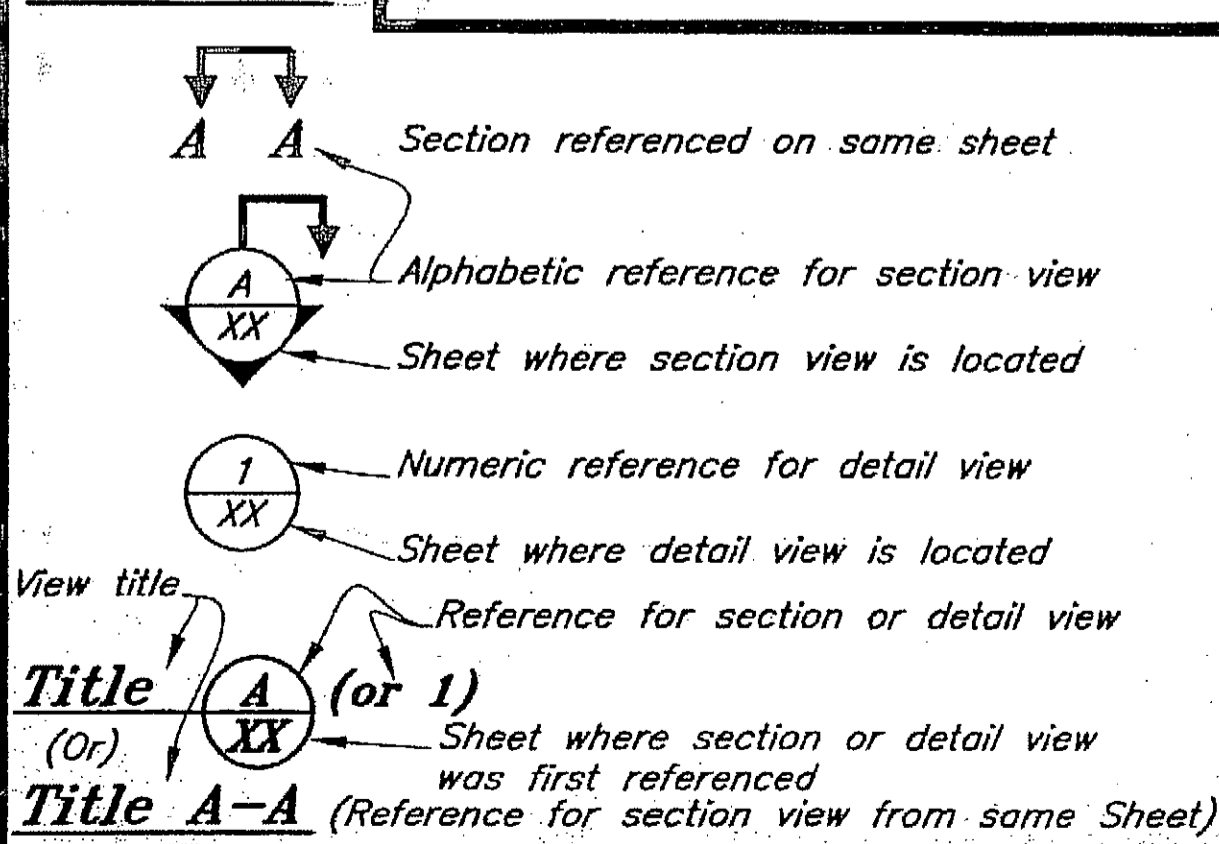
Additive Alternate 1

Item No.	Pay Item	Pay Unit	Quantity
662 (1)	Electrical Lighting System	Lump Sum	All Required

Additive Alternate 2

Item No.	Pay Item	Pay Unit	Quantity
401 (7)	Asphalt Concrete, Type III, Class B	Lump Sum	All Required

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 for timber float systems 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. All sawn timber shall be S4S except decking (milled S1S2E).

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

UHMW Plastic: Ultra high molecular 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 be ASTM A709, Grade 50 with minimum section modulus of 3.64 in³/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, D1.5, or AWS D1.2 as applicable.

Timber Treatment:

Sawn timbers for milled decking, bumper boards & wheel guards shall be treated with ACZA to 0.6 pcf retention. Glulam stringers, diaphragms & 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.

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 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. Pre-drill 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. Pre-drill pilot hole to prevent splitting as required. Stagger adjacent deck joints a minimum of 4-feet apart.

Glulam sub-decking shall be spaced 1/4" 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. Pre-drill 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 diaphragm members with 2 each, 5/8" diam by 9" L lags w/ plate or MI washers (CTSK) within 12" of ends and every 2' 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 diaphragm 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	STATE OF ALASKA DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES STATEWIDE DESIGN & ENGINEERING SERVICES DIVISION			
		Clark Bay Seaplane Facility Project 67497		
		Estimate of Quantities & General Notes		
CHECKED BY: J. Beedle	Tue, 01/Aug/06 11:05AM			
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PLDT: PSPACE 1=1		YEAR		
REVISIONS		SHEET NO.		
NO.	DATE	DESCRIPTION	67497	2006
			2	43
			TOTAL SHEETS	

Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge, the project as constructed.
 PE K.J. Hoffman Date 8-29-06

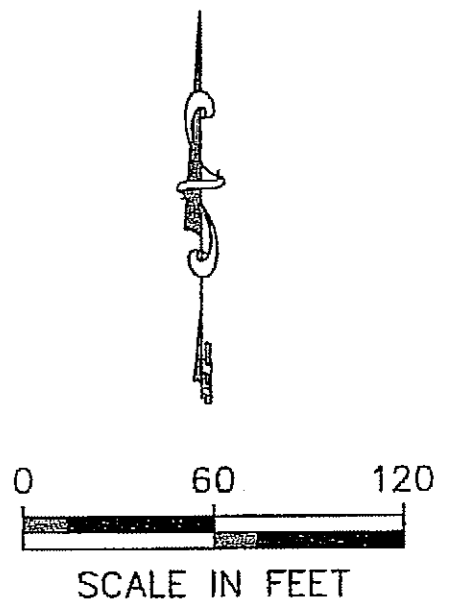
PRINCE OF WALES ISLAND

KLAWOCK-HOLLIS HWY.

1177.16'
S 81°03'55" E

CLARK BAY
FERRY TERMINAL

CLARK BAY



CONTROL POINT TABLE

POINT	LOCAL NORTH	LOCAL EAST	ORTHO ELEV (MLLW)	DESC	DMS PACKED FORMAT		AKSPC NORTH	AKSPC EAST
					LAT	LON		
1	200000.0000	600000.0000	24.68	GPS_ALCAP2.5" CLB-1	55.29272677	-132.37207901	1337218.3239	2902512.0121
2	200347.8183	599942.8599	28.84	GPS_PKWASH CLB-2	55.29306958	-132.37217820	1337565.2056	2902449.5801
3	200530.6446	598779.9844	73.67	GPS_PK WASH	55.29324973	-132.37419693	1337730.2686	2901284.1363
4	200013.4654	599811.5521	24.55	PK SET	55.29274004	-132.37240614	1337228.9137	2902323.3944
5	200088.6895	600275.2312	13.12	ALCAP3.25" ASLS79-181/MC1	55.29281418	-132.37160123	1337311.1928	2902785.8394
6	200003.5748	600274.4898	7.37	ALCAP3.25" C2_ATS1041	55.29273029	-132.37160252	1337226.0828	2902786.3957
7	200089.6336	599773.2134	15.28	ALCAP3.25" MC5 ASLS83-43	55.29281512	-132.37247269	1337304.4831	2902283.9017
8	200167.6791	599773.9115	20.53	ALCAP3.25" WC C4 ASLS83-43	55.29289204	-132.37247148	1337382.5246	2902283.4098
9	200020.8779	599765.5837	8.37	REBAR FND	55.29274735	-132.37248594	1337235.6240	2902277.3217

HORIZONTAL CONTROL

The basis of horizontal control is CLB-1, a 2.5" Aluminum Cap on drive rod located behind the guardrail approximately 24' northwest of the vehicle transfer ramp. Coordinates were established at CLB-1 by a series of OPUS sessions in September 2003. Observed OPUS position:

NAD83 (CORS96) (Epoch 2002.0000)
Latitude : 55°29'27.26773"N
Longitude : 132°37'20.79010"W

The basis of bearing for this project is the geodetic bearing of S 81°03'55" E from CLB-3 to CLB-2. This bearing was derived from GPS and conventional observations plus the applied convergence angle of 0°52'25" described below

The Clarke Bay 2003 Grid is a local ground coordinate system based at DOT aluminum cap CLB-1. The Grid system relates to AKSPC zone 1 NAD83(CORS96) through the following parameters:

Zone = NAD83 AKSPC ZONE 1
Grid Scale = 0.9999279
Convergence = 0°52'25"
Translation about CLB-1 as follows:
AKSPC Northing = 1337218.3239 FT US
AKSPC Easting = 2902512.0121 FT US
Local Northing = 200000.0000 FT US
Local Easting = 600000.0000 FT US

Project Specific Horizontal Control

CLB-3 : PK/washer located near east edge of pavement in pullout approximately 1000' west of ferry parking.

Clarke-Grid N 200530.6446 FT US, E 598779.9844 FT US
AKSPC N 1337730.2686 FT US, E 2901284.1363 FT US

CLB-2 : PK/washer located approximately 15' west of a concrete utility vault at the northern end of the parking area.

Clarke-Grid N 200347.8183 FT US, E 599942.8599 FT US
AKSPC N 1337565.2056 FT US, E 2902449.5801 FT US

VERTICAL CONTROL

The basis of vertical control is the USC&GS benchmark # 1X with a 2003 published elevation of 17.41' above MLLW. This is NOS Tidal Series 9450544.

<<http://tidesandcurrents.noaa.gov/benchmarks/9450544.html>>

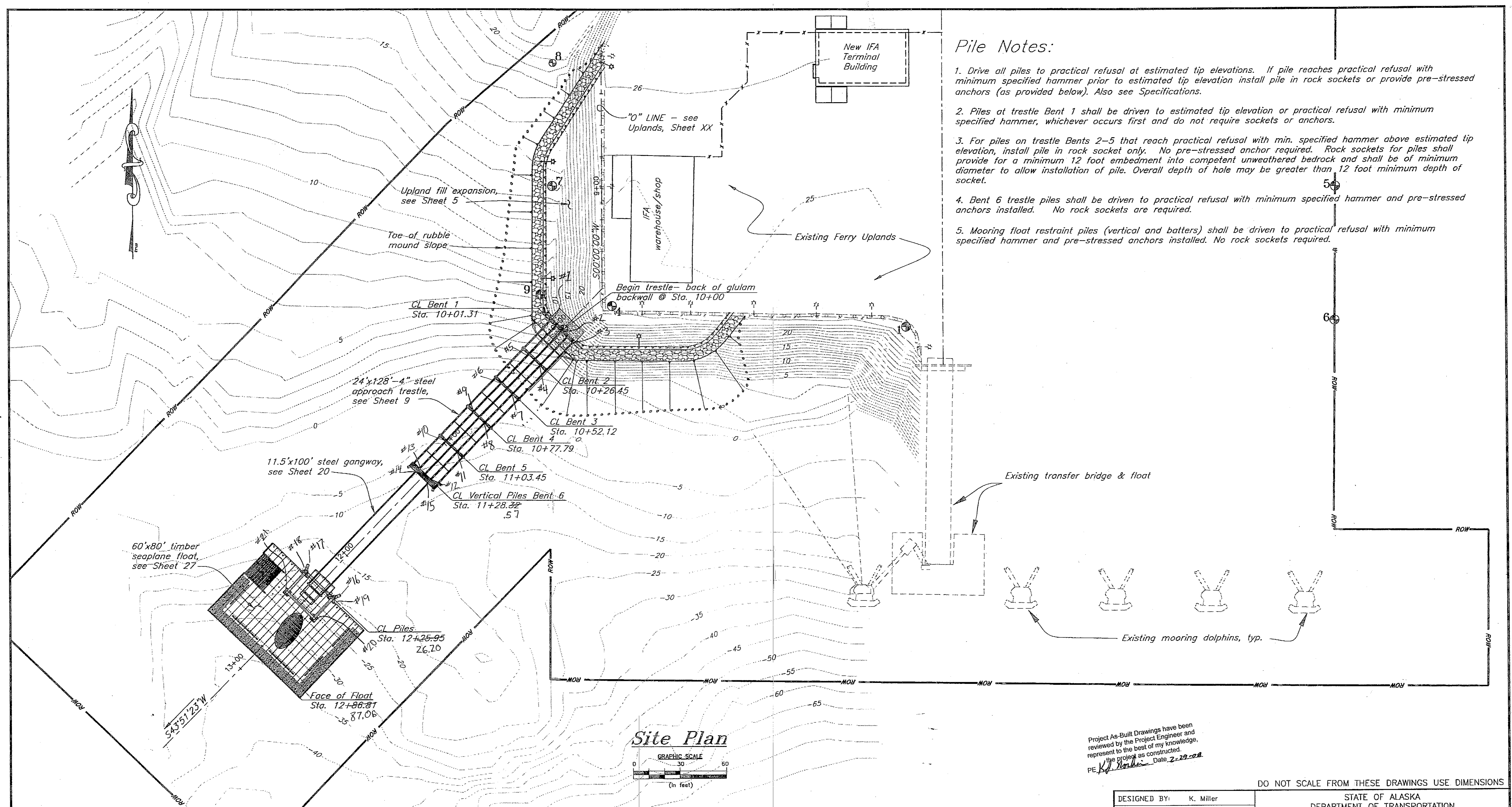
A series of static GPS sessions were run between CLB-2 and two temporary points on the beach in the vicinity of the USC&GS benchmarks. All USC&GS benchmarks in the series were tied from these temporary GPS by trigonometric leveling. Elevations transferred are orthometric based on Geoid 99.

The project specific basis of vertical control is CLB-2 with an observed elevation of 28.84' above MLLW.

Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge, the project as constructed.
Date 2-29-08
PE J. J. [Signature]

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

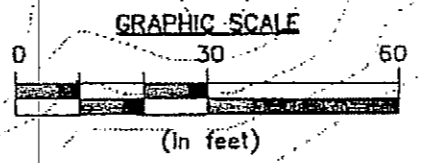
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		Clark Bay Seaplane Float Project 67497			
		Survey Control Plan & Details			
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PLOT: PSPACE 1=1		YEAR		SHEET NO.	
		2006		3	
NO. DATE REVISIONS DESCRIPTION		TOTAL SHEETS		XX	
		67497			



Pile Notes:

1. Drive all piles to practical refusal at estimated tip elevations. If pile reaches practical refusal with minimum specified hammer prior to estimated tip elevation install pile in rock sockets or provide pre-stressed anchors (as provided below). Also see Specifications.
2. Piles at trestle Bent 1 shall be driven to estimated tip elevation or practical refusal with minimum specified hammer, whichever occurs first and do not require sockets or anchors.
3. For piles on trestle Bents 2-5 that reach practical refusal with min. specified hammer above estimated tip elevation, install pile in rock socket only. No pre-stressed anchor required. Rock sockets for piles shall provide for a minimum 12 foot embedment into competent unweathered bedrock and shall be of minimum diameter to allow installation of pile. Overall depth of hole may be greater than 12 foot minimum depth of socket.
4. Bent 6 trestle piles shall be driven to practical refusal with minimum specified hammer and pre-stressed anchors installed. No rock sockets are required.
5. Mooring float restraint piles (vertical and batters) shall be driven to practical refusal with minimum specified hammer and pre-stressed anchors installed. No rock sockets required.

Site Plan



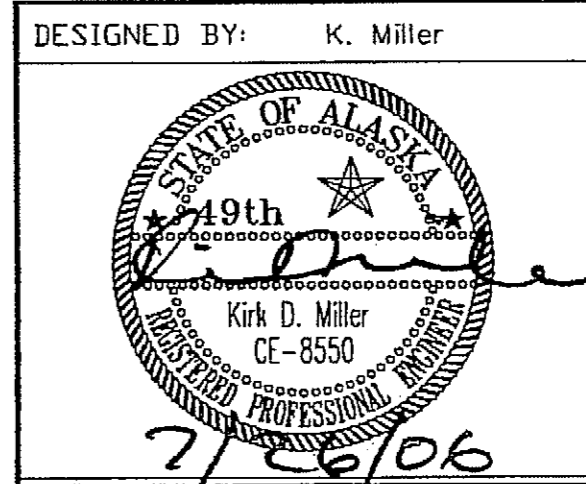
Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge, the project as constructed.
 PE *K. Miller* Date 2-29-08

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

CLARK BAY

Pile Data

Pile Information		No. of Piles	Diam x Wall (inches)	Elevations (ft)			Estimated Tip Elevation	Estimated Depth of Rock Socket Hole (ft)	Estimated Pile Length (ft)	Design Pile Capacity (KIPS)	
Structure & Pile Location	Orientation			Avg OG/FG	Estimated Bedrock	Cut-Off				Bearing	Uplift
Trestle Bent 1 (Abutment)	Vertical	3	16 x 1/2	+6/+20	-14	+17.90	-16.1	NR	34	28	NA
Trestle Bent 2	Vertical	2	16 x 1/2	+1/+7.5	-16	+18.73	-31.27	15 (see Note 4)	50	58	NA
Trestle Bent 3	Vertical	2	16 x 1/2	-2	-17	+18.73	-31.27	14 (see Note 4)	50	58	NA
Trestle Bent 4	Vertical	2	16 x 1/2	-5	-19	+18.73	-31.27	12 (see Note 4)	50	58	NA
Trestle Bent 5	Vertical	2	16 x 1/2	-8	-22	+18.73	-35.27	13 (see Note 4)	54	58	NA
Trestle Bent 6	Vertical	2	16 x 1/2	-10	-29	+15.61	-36.39	NR	52	65	12
Trestle Bent 6	3.5:1 Batter	2	16 x 1/2	-10	-30	+20.29	-35.48	NR	58	48	33
Mooring Float - Seaward	Vertical	2	20 x 1/2	-25	-29	+30.42	-34.58	NR	65	26	16
Mooring Float - Shoreward	Vertical	2	20 x 1/2	-21	-25	+30.42	-29.58	NR	60	54	37
Mooring Float - Shoreward	3:1 Batter	2	16 x 1/2	-20	-24	+36.39	-34.76	NR	75	40	38



STATE OF ALASKA
 DEPARTMENT OF TRANSPORTATION
 & PUBLIC FACILITIES
 STATEWIDE DESIGN & ENGINEERING SERVICES DIVISION
**Clark Bay Seaplane Facility
 Project 67497**

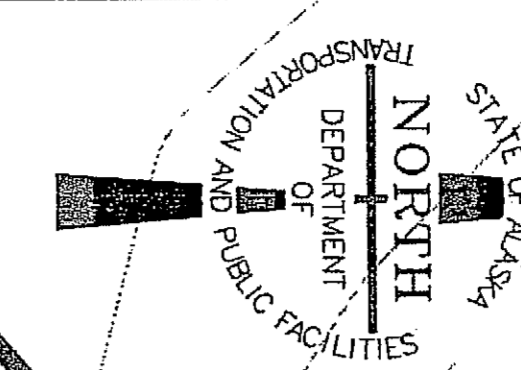
CHECKED BY: B. Savikko
 DRAWN BY: C. Fuman

Site Plan

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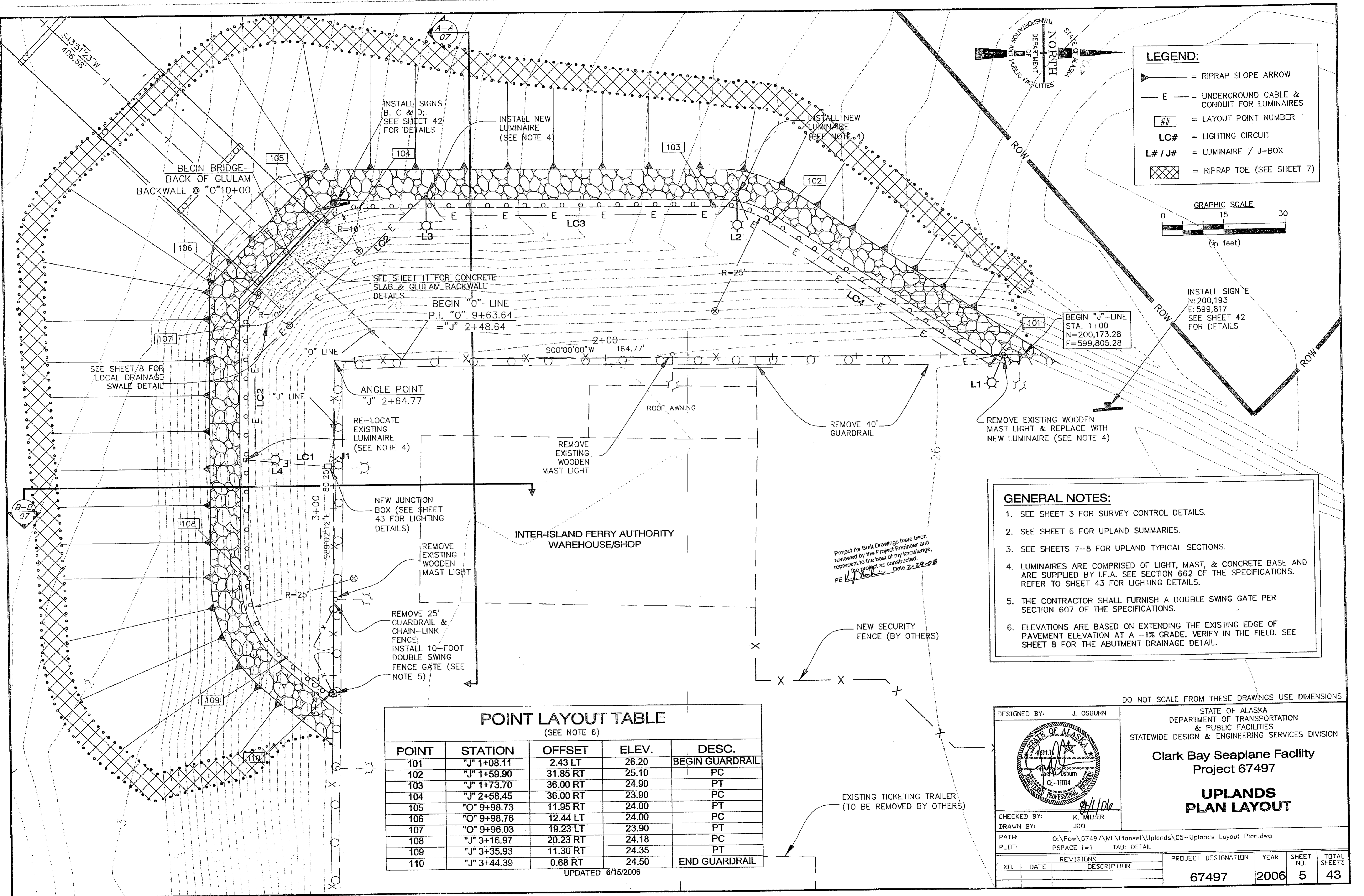
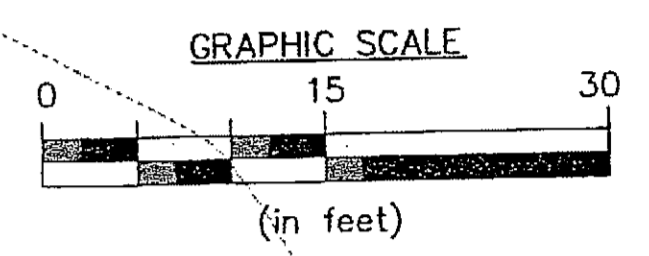
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REVISIONS			PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
NO.	DATE	DESCRIPTION				
			67497	2006	4	43



LEGEND:

- = RIPRAP SLOPE ARROW
- = UNDERGROUND CABLE & CONDUIT FOR LUMINAIRES
- = LAYOUT POINT NUMBER
- LC#** = LIGHTING CIRCUIT
- L# / J#** = LUMINAIRE / J-BOX
- = RIPRAP TOE (SEE SHEET 7)



- GENERAL NOTES:**
- SEE SHEET 3 FOR SURVEY CONTROL DETAILS.
 - SEE SHEET 6 FOR UPLAND SUMMARIES.
 - SEE SHEETS 7-8 FOR UPLAND TYPICAL SECTIONS.
 - LUMINAIRES ARE COMPRISED OF LIGHT, MAST, & CONCRETE BASE AND ARE SUPPLIED BY I.F.A. SEE SECTION 662 OF THE SPECIFICATIONS. REFER TO SHEET 43 FOR LIGHTING DETAILS.
 - THE CONTRACTOR SHALL FURNISH A DOUBLE SWING GATE PER SECTION 607 OF THE SPECIFICATIONS.
 - ELEVATIONS ARE BASED ON EXTENDING THE EXISTING EDGE OF PAVEMENT ELEVATION AT A -1% GRADE. VERIFY IN THE FIELD. SEE SHEET 8 FOR THE ABUTMENT DRAINAGE DETAIL.

POINT LAYOUT TABLE
(SEE NOTE 6)

POINT	STATION	OFFSET	ELEV.	DESC.
101	"J" 1+08.11	2.43 LT	26.20	BEGIN GUARDRAIL
102	"J" 1+59.90	31.85 RT	25.10	PC
103	"J" 1+73.70	36.00 RT	24.90	PT
104	"J" 2+58.45	36.00 RT	23.90	PC
105	"O" 9+98.73	11.95 RT	24.00	PT
106	"O" 9+98.76	12.44 LT	24.00	PC
107	"O" 9+96.03	19.23 LT	23.90	PT
108	"J" 3+16.97	20.23 RT	24.18	PC
109	"J" 3+35.93	11.30 RT	24.35	PT
110	"J" 3+44.39	0.68 RT	24.50	END GUARDRAIL

UPDATED 6/15/2006

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

DESIGNED BY:	J. OSBURN		STATE OF ALASKA DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES STATEWIDE DESIGN & ENGINEERING SERVICES DIVISION		
CHECKED BY:	K. MILLER		Clark Bay Seaplane Facility Project 67497 UPLANDS PLAN LAYOUT		
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PATH:	Q:\Paw\67497\MF\Planset\Uplands\05-Uplands Layout Plan.dwg				
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REVISIONS			PROJECT DESIGNATION	YEAR	SHEET NO.
NO. DATE DESCRIPTION			67497	2006	5
					TOTAL SHEETS
					43

Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge, the project as constructed.
 PE: *K. J. Miller* Date: 2-29-08

BASIS OF ESTIMATE ~ UPLANDS		
ITEM #	ITEM	ESTIMATING FACTOR
203 (19)	Borrow Quantity	2,600 c.y.
301 (5)	Crushed Aggregate Base Course (CABC), grading D-1	1.96 ton/c.y.
301 (5)	CABC Surface Area	825 s.y.
401 (7)	Asphalt Concrete Type III, Class B ~ Mixture	120 lb/s.y./in
401 (7)	Asphalt Oil [PG 58-28]	6% of Item P-401a
401 (7)	Asphalt Oil [PG 58-28]	237 gal/ton
400 (7)	Asphalt Surface Area	725 s.y.
611 (3)	Riprap, Class RR 700 Quantity	1,600 c.y.

UPDATED 7/31/2006

202(1) REMOVAL OF STRUCTURES & OBSTRUCTIONS		
ITEM	ESTIMATED QUANTITY	UNIT
CHAIN-LINK FENCE	25	LINEAR FOOT
WOODEN MAST LIGHTS	3	EACH

UPDATED 7/31/2006

606 (1) - GUARDRAIL SUMMARY			
Station - Station	Off.	Len.	Remarks
"J" 1+08 - "O" 9+98	RT	170	MINIMIZE GAP BETWEEN GUARDRAIL AND BRIDGE RAILING
"O" 9+98 - "J" 3+44	LT/RT	105	MINIMIZE GAP BETWEEN GUARDRAIL AND BRIDGE RAILING
TOTAL		275	

UPDATED 7/27/2006

606 (6) - REMOVAL AND DISPOSAL OF GUARDRAIL			
Station - Station	Off.	Len.	Remarks
"J" 1+24 - "J" 1+64	LT	40	
"J" 3+22 - "J" 3+47	LT	25	
TOTAL		65	

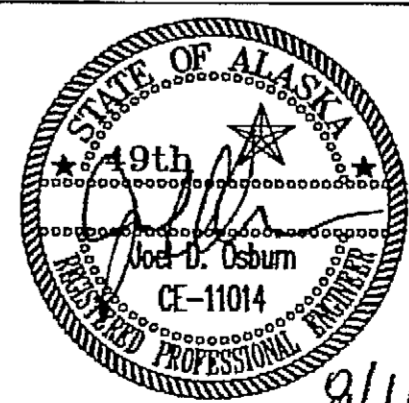
UPDATED 7/27/2006

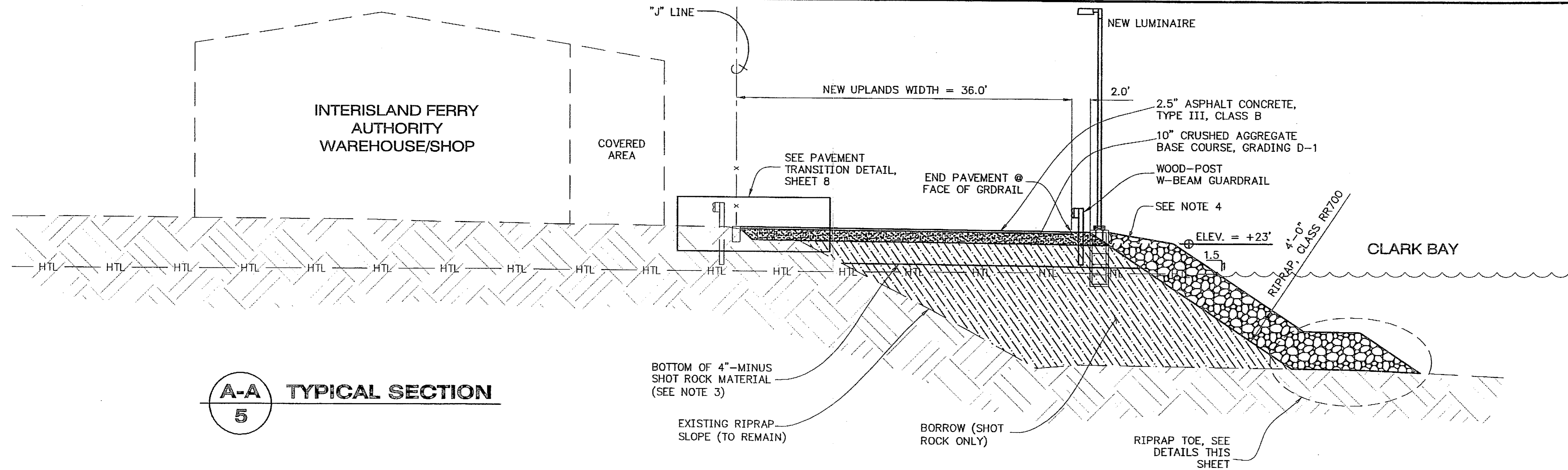
607 (7) - 10-FOOT DOUBLE SWING GATE			
Station - Station	Off.	Len.	Remarks
"J" 3+24 - "J" 3+44	-	20	SEE SECTION 607 OF THE SPECIFICATIONS.
TOTAL		20	

UPDATED 7/27/2006

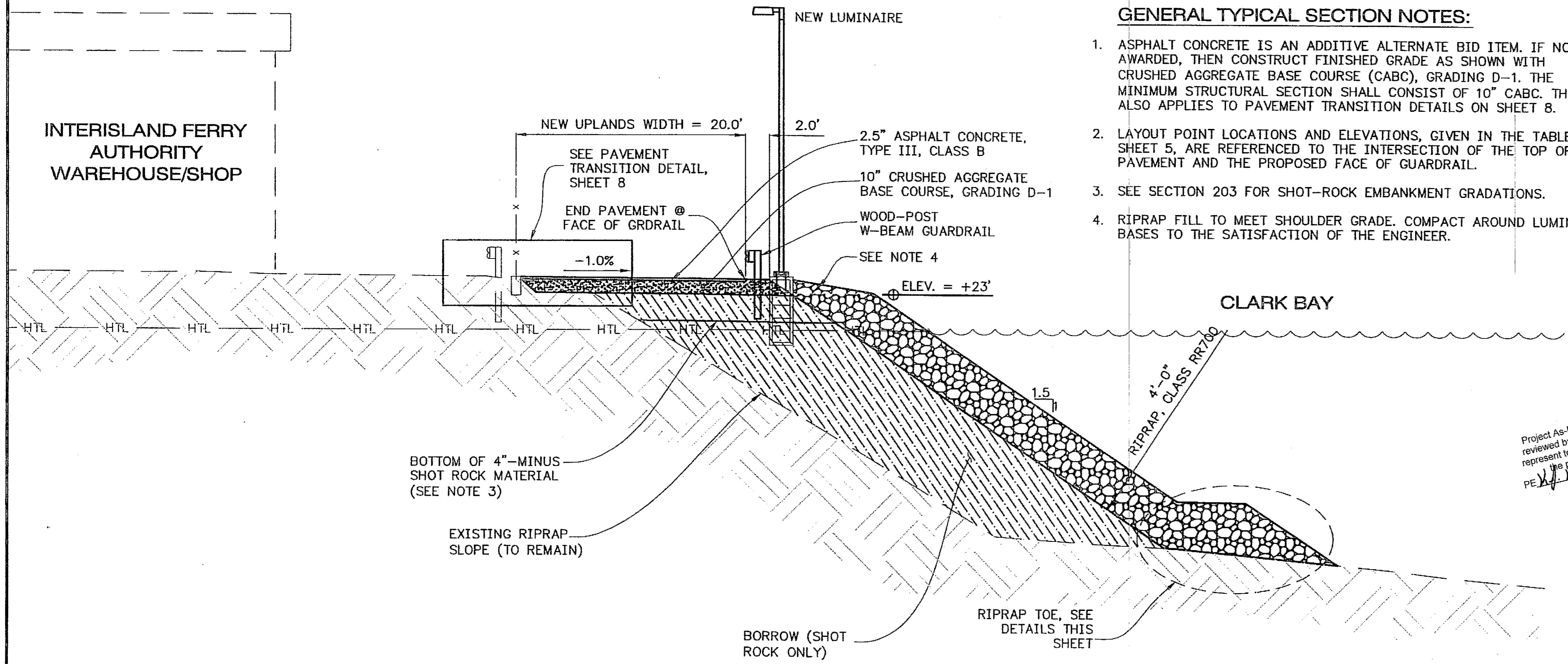
Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge, the project as constructed.
 PE *[Signature]* Date 2-27-09

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

DESIGNED BY:	STATE OF ALASKA DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES STATEWIDE DESIGN & ENGINEERING SERVICES DIVISION						
	Clark Bay Seaplane Facility Project 67497						
	UPLANDS BASIS OF ESTIMATE & MISCELLANEOUS SUMMARIES						
CHECKED BY: J. OSBURN							
DRAWN BY: B. BENNETT							
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PLDT:							
NO.		REVISIONS DESCRIPTION		PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
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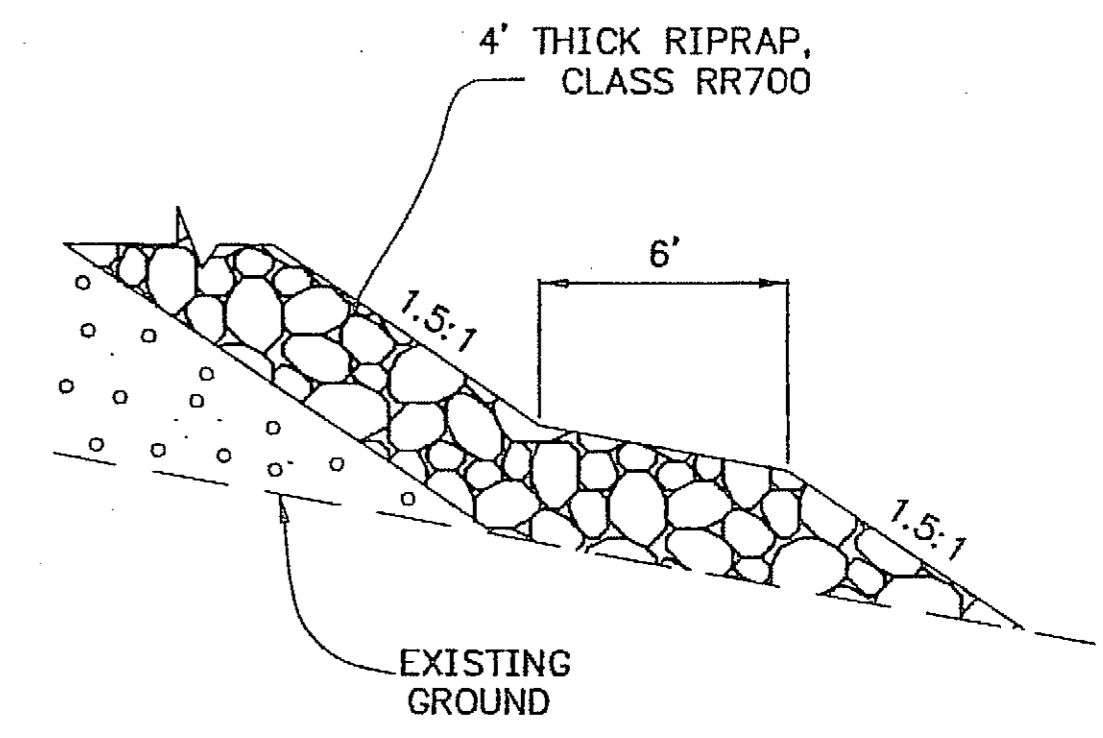
A-A TYPICAL SECTION
5



B-B TYPICAL SECTION
5

GENERAL TYPICAL SECTION NOTES:

1. ASPHALT CONCRETE IS AN ADDITIVE ALTERNATE BID ITEM. IF NOT AWARDED, THEN CONSTRUCT FINISHED GRADE AS SHOWN WITH CRUSHED AGGREGATE BASE COURSE (CABC), GRADING D-1. THE MINIMUM STRUCTURAL SECTION SHALL CONSIST OF 10" CABC. THIS ALSO APPLIES TO PAVEMENT TRANSITION DETAILS ON SHEET 8.
2. LAYOUT POINT LOCATIONS AND ELEVATIONS, GIVEN IN THE TABLE ON SHEET 5, ARE REFERENCED TO THE INTERSECTION OF THE TOP OF PAVEMENT AND THE PROPOSED FACE OF GUARDRAIL.
3. SEE SECTION 203 FOR SHOT-ROCK EMBANKMENT GRADATIONS.
4. RIPRAP FILL TO MEET SHOULDER GRADE. COMPACT AROUND LUMINAIRE BASES TO THE SATISFACTION OF THE ENGINEER.

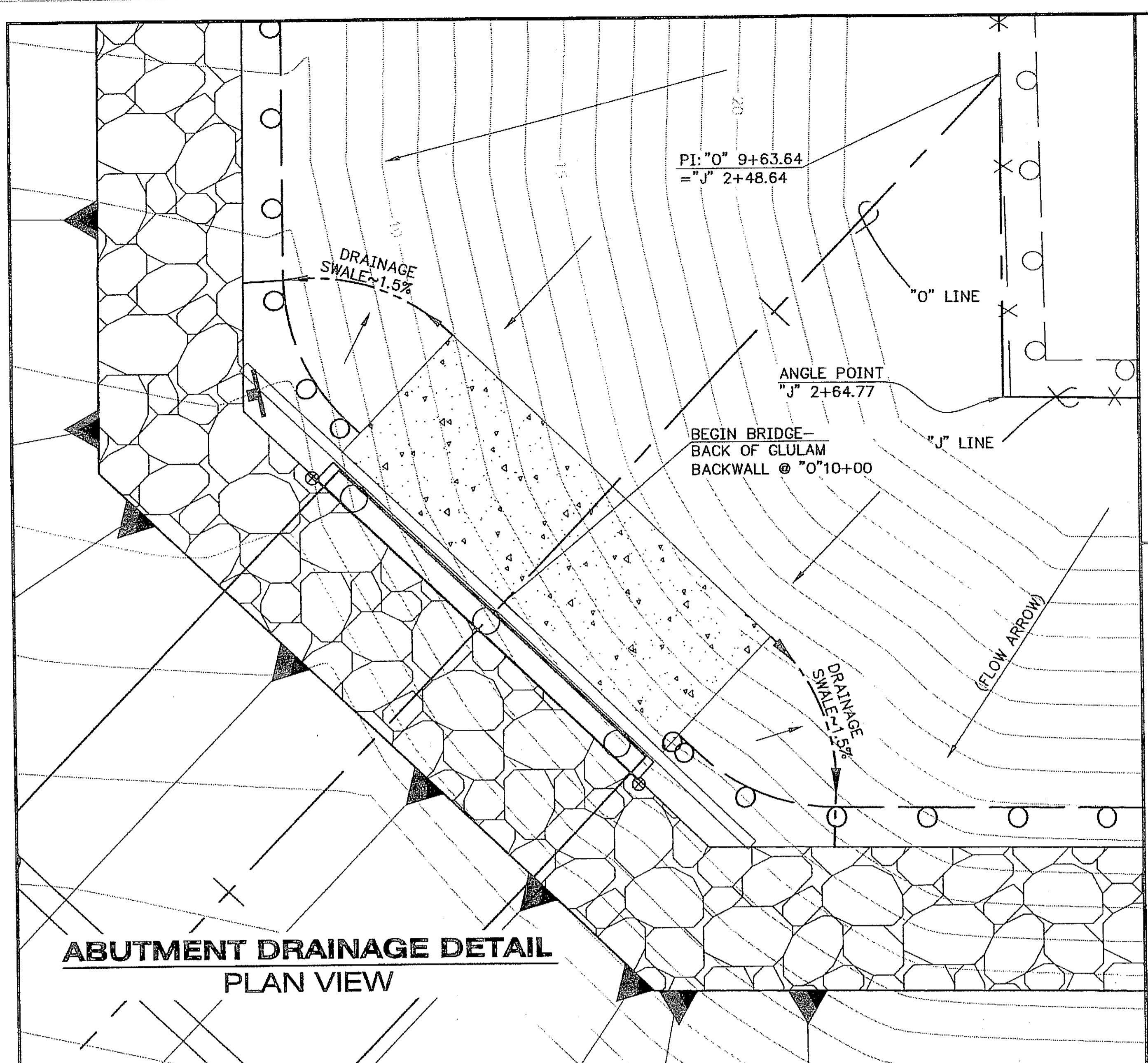


RIPRAP TOE DETAIL

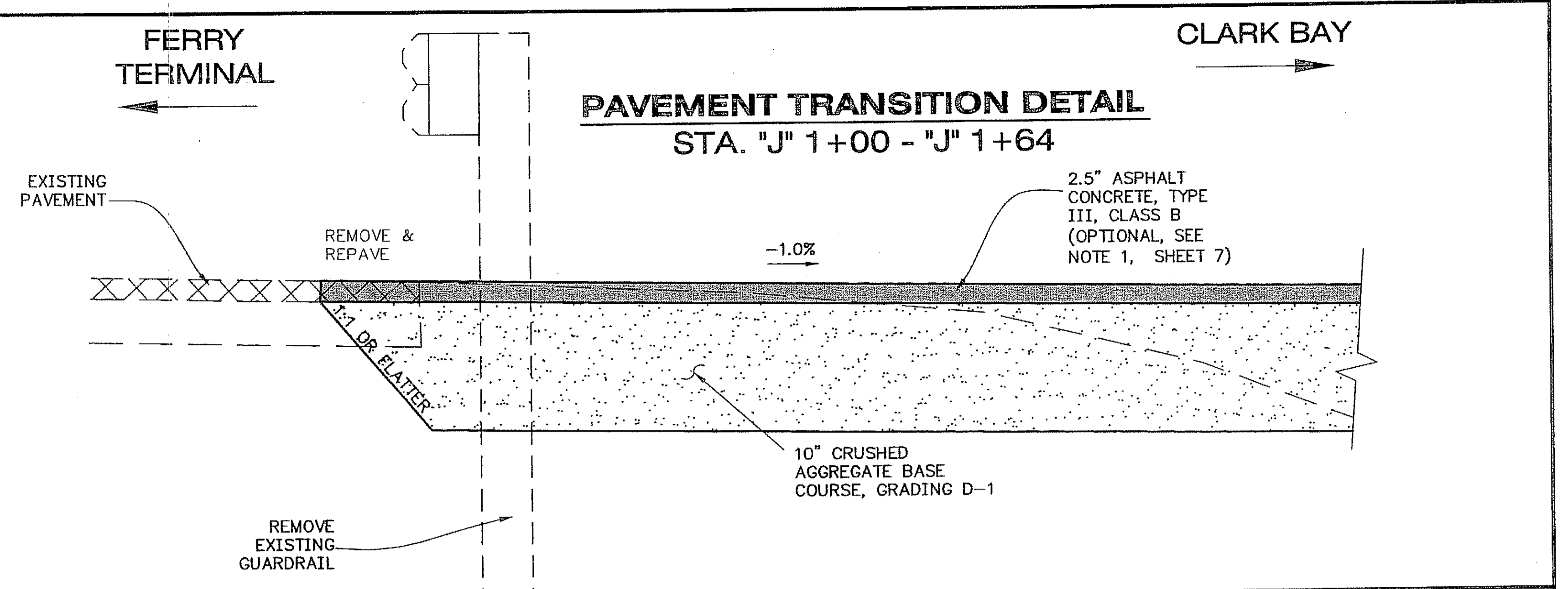
Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge, the project as constructed.
PE *[Signature]* Date 2-29-08

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

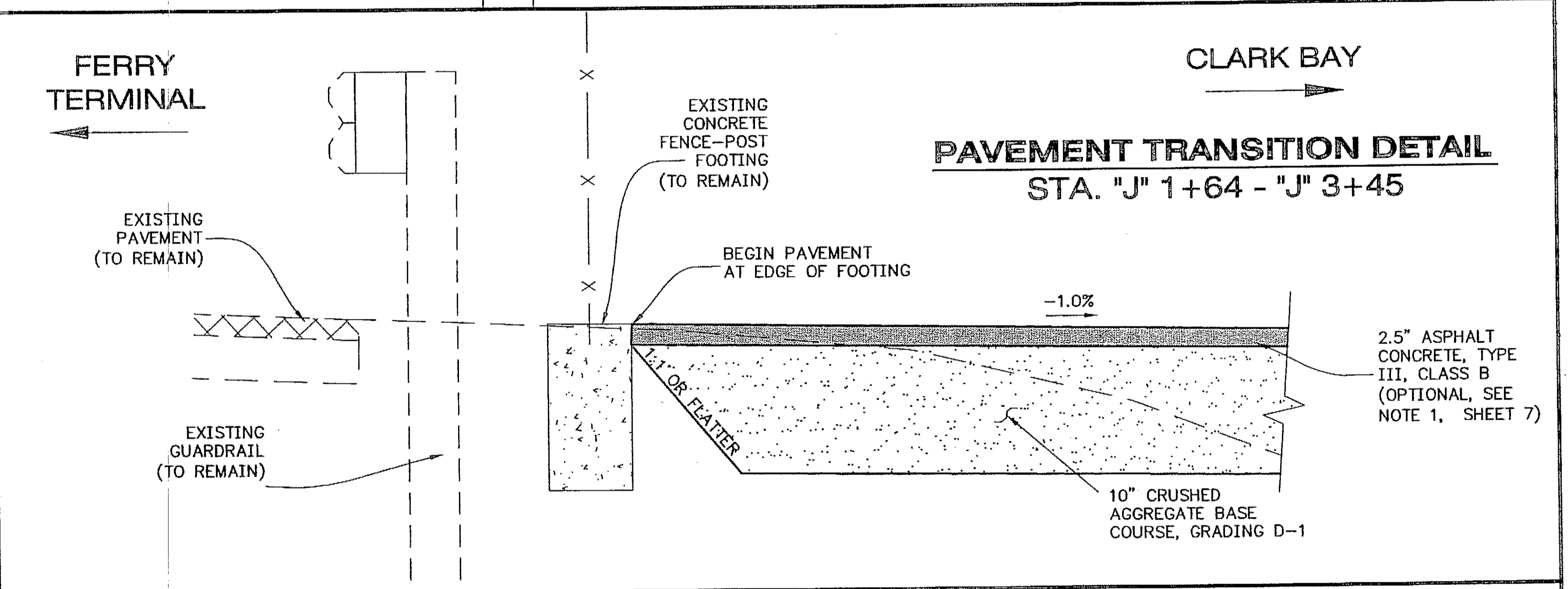
DESIGNED BY: J. OSBURN		STATE OF ALASKA DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES STATEWIDE DESIGN & ENGINEERING SERVICES DIVISION			
		Clark Bay Seaplane Facility Project 67497			
		UPLANDS TYPICAL SECTIONS			
CHECKED BY: K. MILLER		PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
DRAWN BY: JDO		67497	2006	7	43
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REVISIONS					
NO.	DATE	DESCRIPTION			



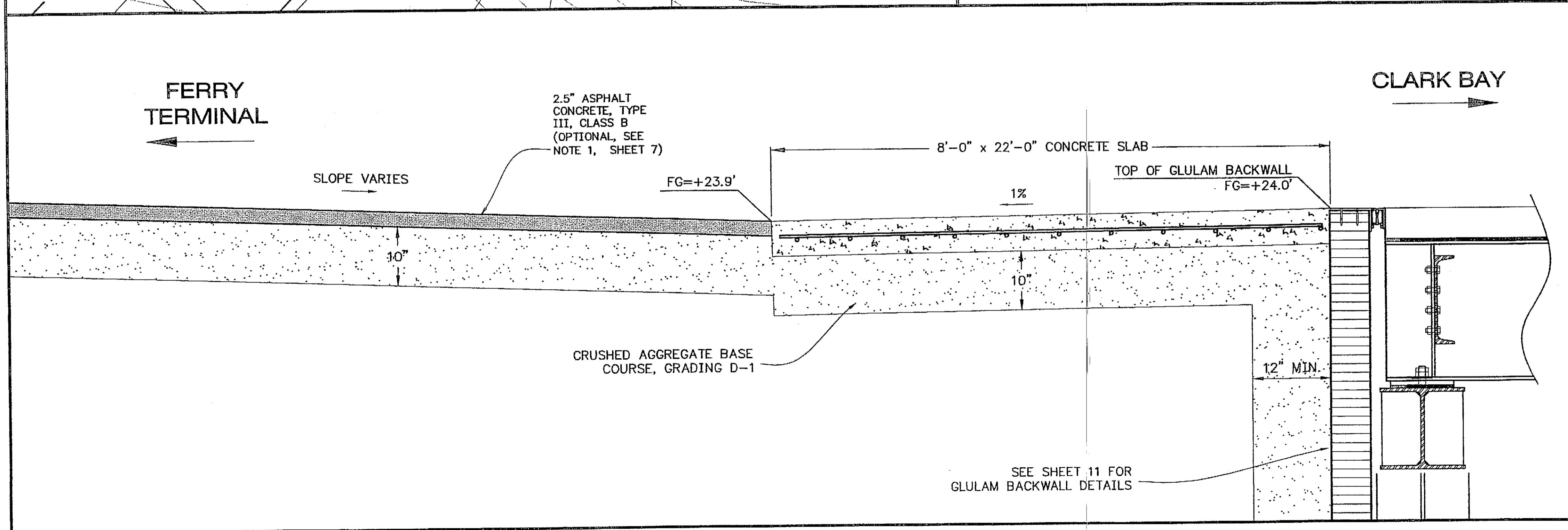
**ABUTMENT DRAINAGE DETAIL
PLAN VIEW**



**PAVEMENT TRANSITION DETAIL
STA. "J" 1+00 - "J" 1+64**



**PAVEMENT TRANSITION DETAIL
STA. "J" 1+64 - "J" 3+45**



**ABUTMENT DRAINAGE DETAIL
PROFILE VIEW**

Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge, the project as constructed.
PE: *K. Miller* Date: 2-27-08

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

DESIGNED BY: J. OSBURN

CHECKED BY: K. MILLER
DRAWN BY: JDO

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

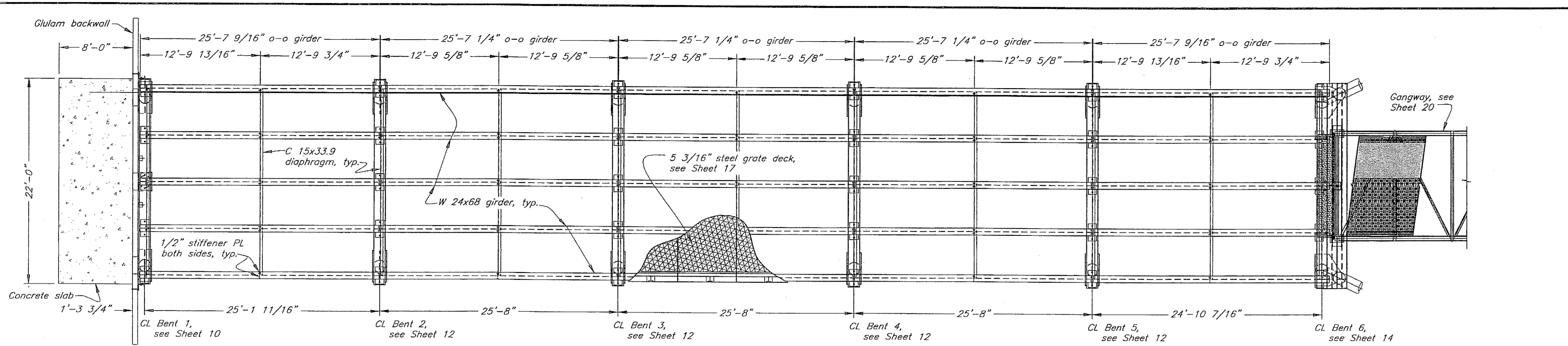
**Clark Bay Seaplane Facility
Project 67497**

**UPLANDS
MISCELLANEOUS
DETAILS**

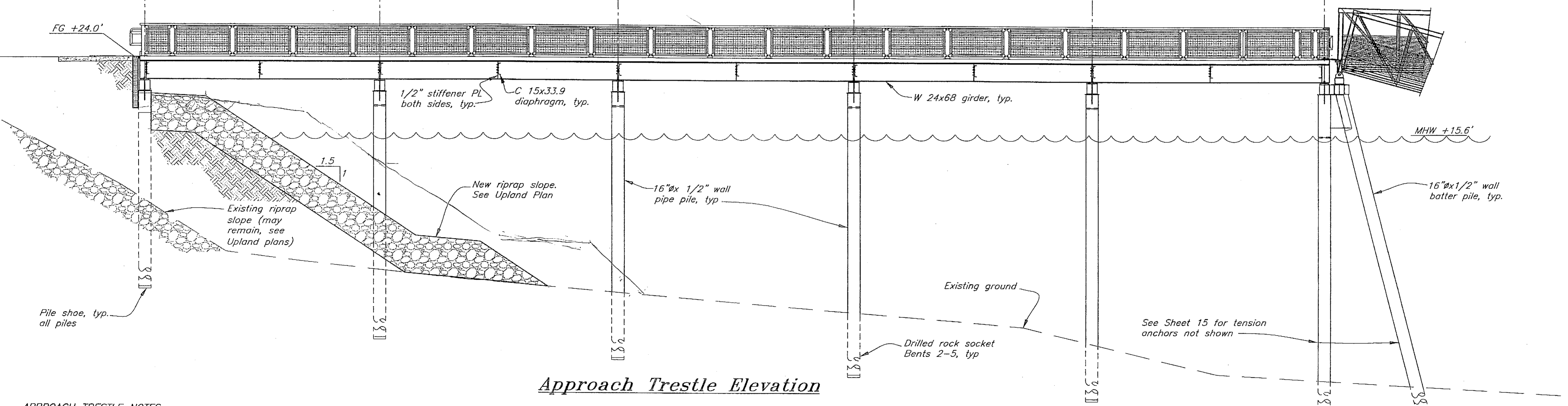
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PLOT: PSPACE 1=1 TAB: DETAIL

REVISIONS		PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
NO.	DATE				
		67497	2006	8	43

SEE SHEET 11 FOR
GLULAM BACKWALL DETAILS



Approach Trestle Framing Plan



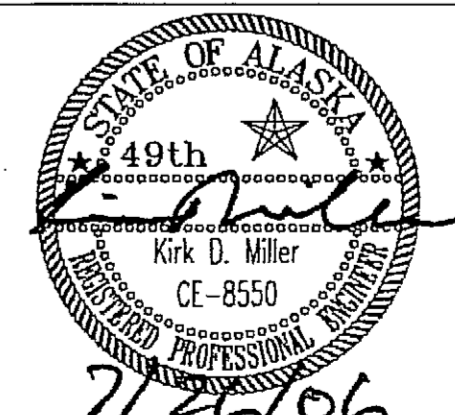
Approach Trestle Elevation

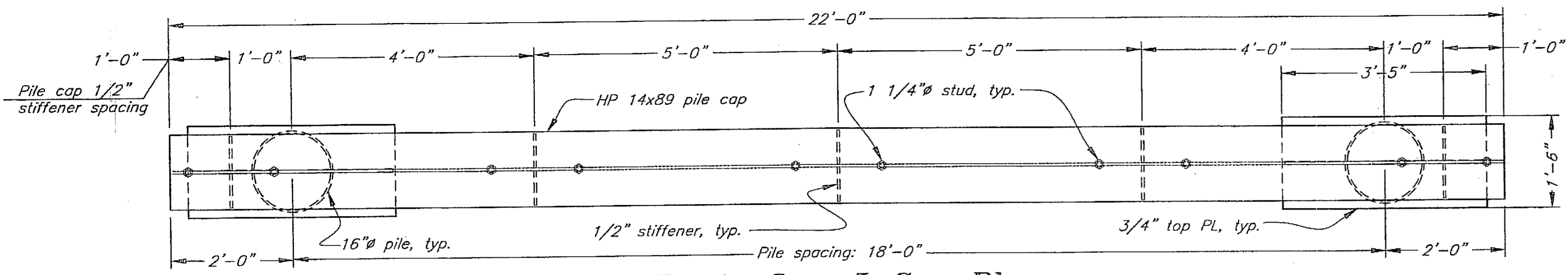
- APPROACH TRESTLE NOTES:**
1. Design Load Criteria: 85 PSF Pedestrian Live Load. AASHTO H15 Vehicle Load (2-lane).
 2. All structural shapes for pile caps, girders, gangway support beams and ledger shall conform to ASTM A709, Grade 36. Miscellaneous plates, stiffeners and structural steel shapes for 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 2-6 and under girders 2 & 4 on Bent 1). Fit stiffener plates tight to bottom flange at these locations.

- MISCELLANEOUS NOTES:**
1. Existing ground elevations shown are approximate only. See Plan.
 2. Reference pile table on sheet 4 for estimated bedrock elevations and pile driving/socketing and tension anchor requirements not indicated.

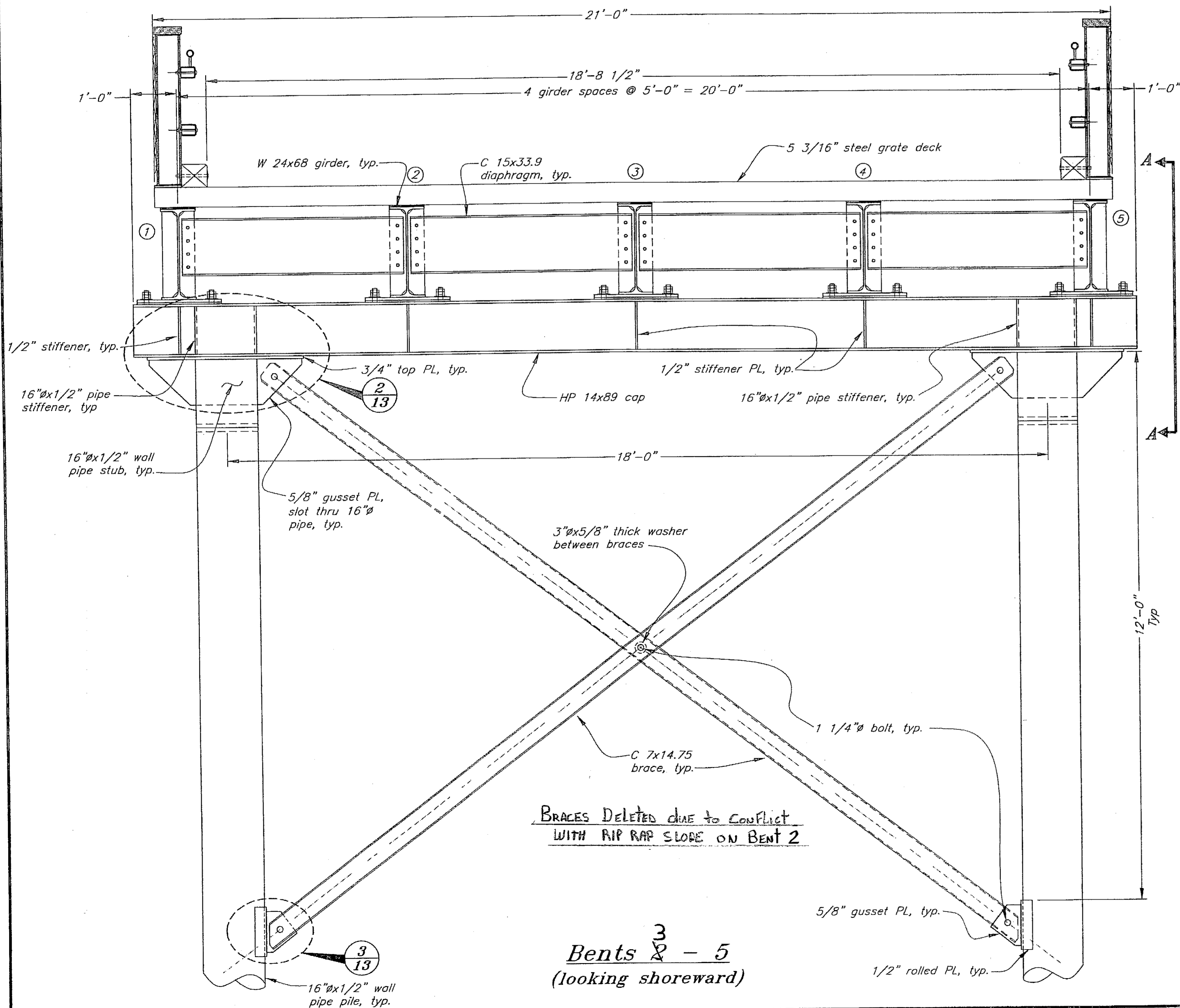
Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge the project as constructed.
 PE: *[Signature]* Date: 2-29-08

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

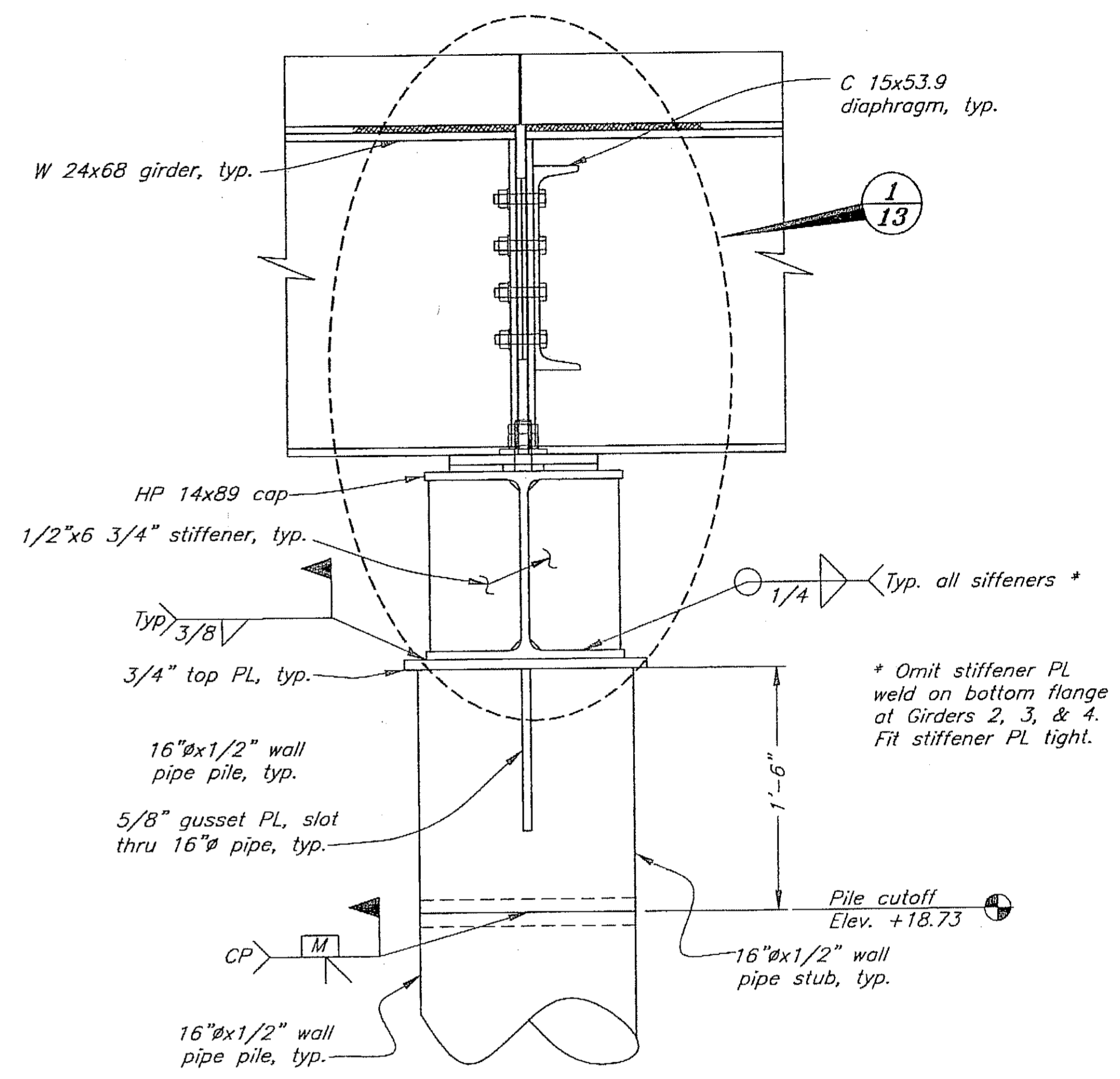
DESIGNED BY: K. Miller  CHECKED BY: J. Beedle DRAWN BY: C. Furman/K. Miller	STATE OF ALASKA DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES STATEWIDE DESIGN & ENGINEERING SERVICES DIVISION Clark Bay Seaplane Facility Project 67497 Approach Trestle Plan & Elevation														
PATH: Q:\Paw\67497\MF\Planset\09-Trestle Plan & Elev.dwg PLOT: PSPACE 1=1 Tab: Plan Wed, 26/Jul/06 09:54AM															
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>NO.</th> <th>DATE</th> <th>REVISIONS DESCRIPTION</th> </tr> </thead> <tbody> <tr> <td> </td> <td> </td> <td> </td> </tr> </tbody> </table>	NO.	DATE	REVISIONS DESCRIPTION				<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>PROJECT DESIGNATION</th> <th>YEAR</th> <th>SHEET NO.</th> <th>TOTAL SHEETS</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">67497</td> <td style="text-align: center;">2006</td> <td style="text-align: center;">9</td> <td style="text-align: center;">43</td> </tr> </tbody> </table>	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS	67497	2006	9	43
NO.	DATE	REVISIONS DESCRIPTION													
PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS												
67497	2006	9	43												



Bents 2 - 5 Cap Plan



**Bents 2 - 5
(looking shoreward)**

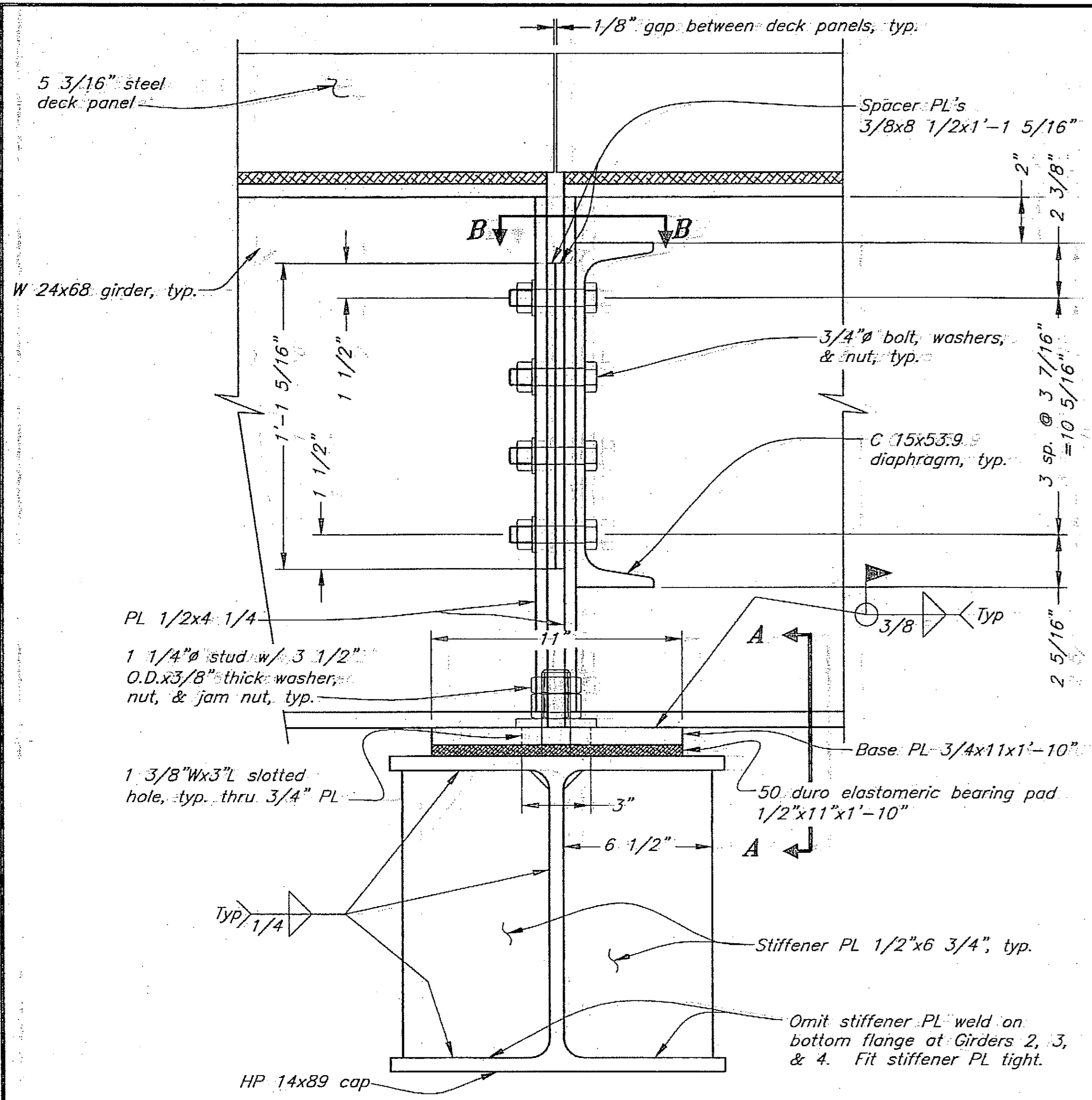


Section A-A

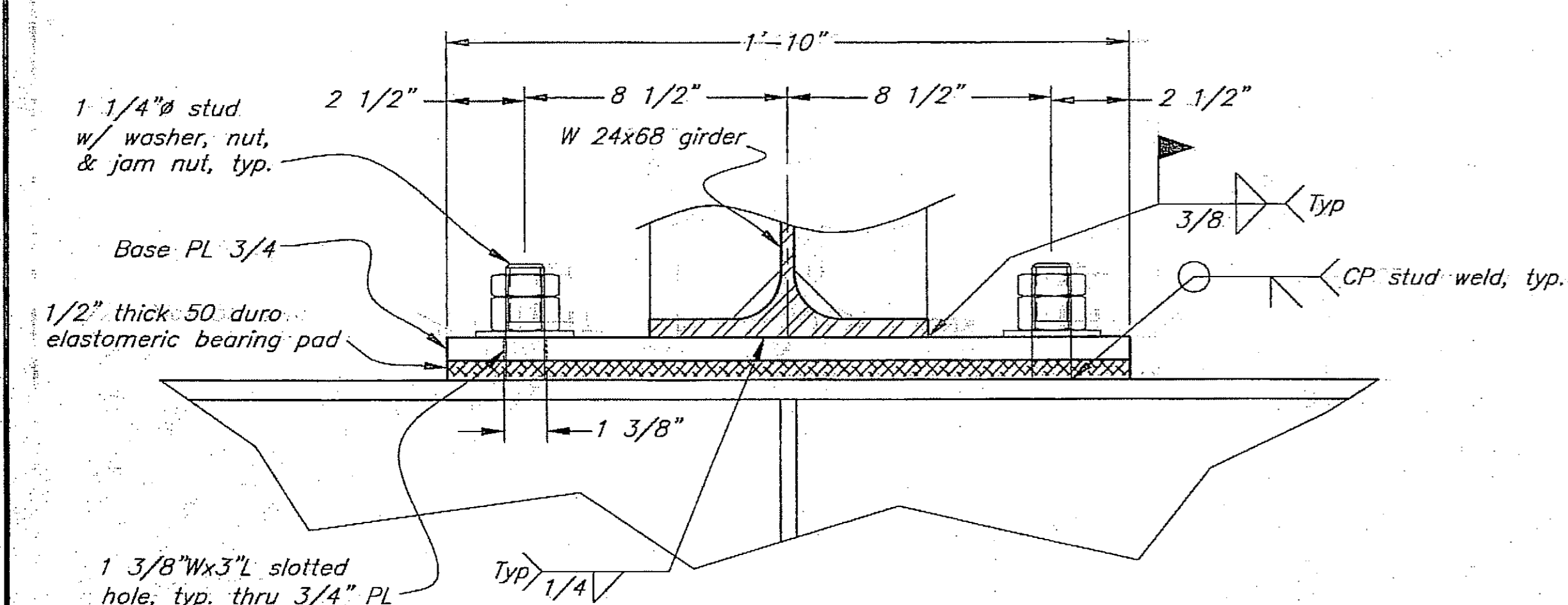
Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge, the project as constructed.
 PE: *[Signature]* Date 2-29-08

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

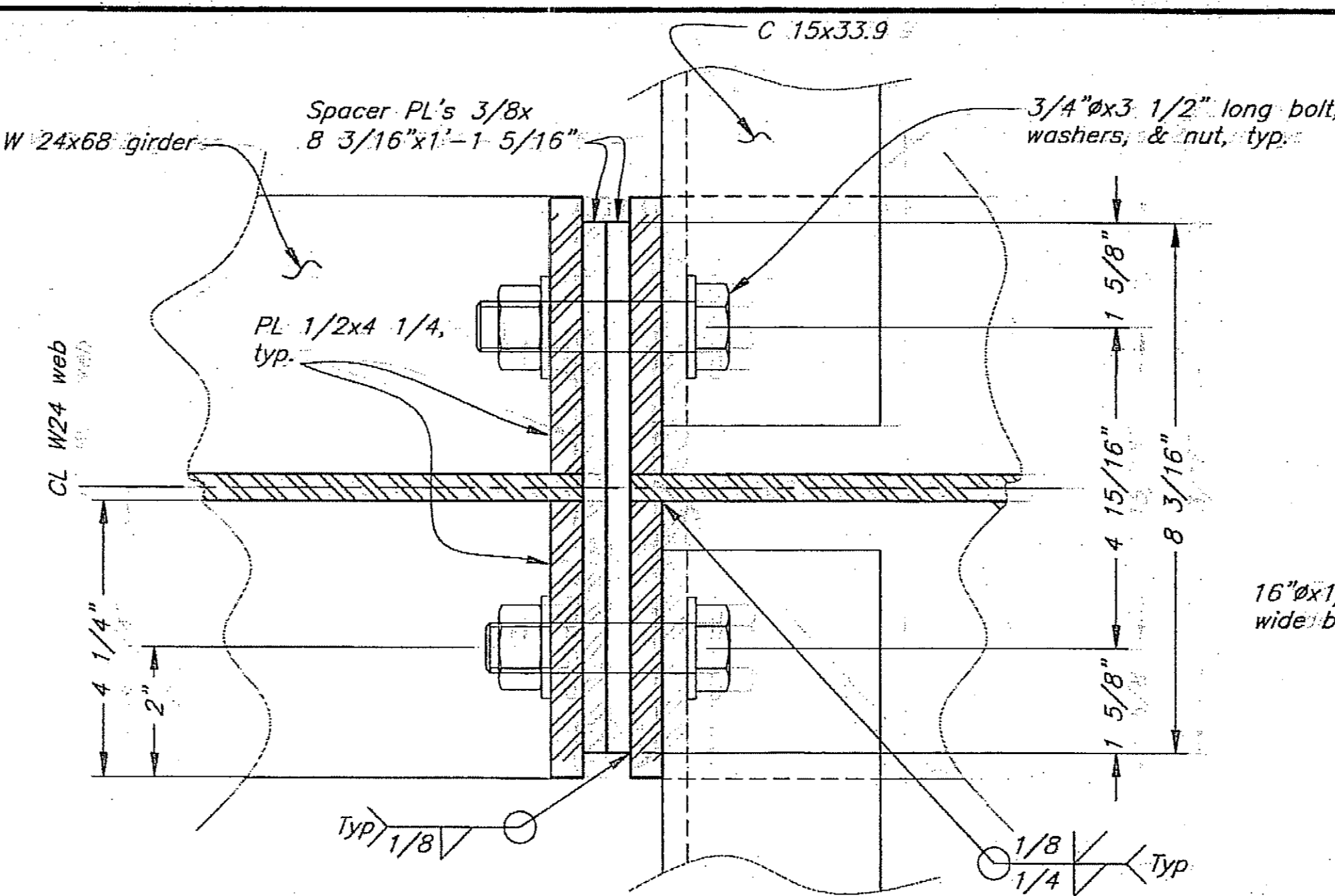
DESIGNED BY: K. Miller		STATE OF ALASKA DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES STATEWIDE DESIGN & ENGINEERING SERVICES DIVISION			
		Clark Bay Seaplane Facility Project 67497			
		Approach Trestle Bents 2-5			
CHECKED BY: J. Beedle		Wed, 26/Jul/06 09:55AM			
DRAWN BY: C. Fuman/K. Miller		PROJECT DESIGNATION: 67497			
PATH: Q:\Pow\67497\MF\Planner\12-Trestle Bents 2-5.dwg		YEAR: 2006		SHEET NO.: 12	
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NO.	DATE	DESCRIPTION			



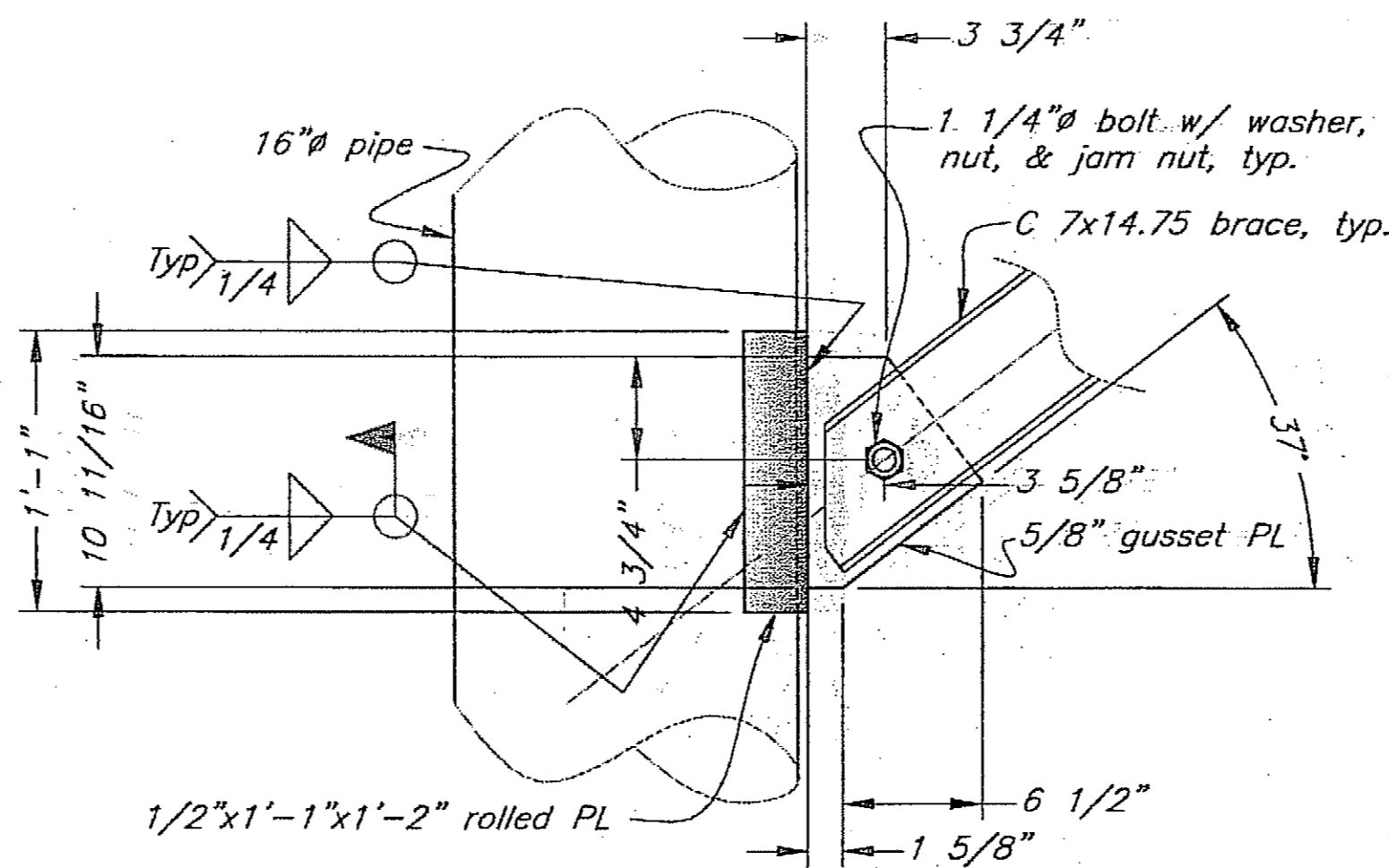
Detail 1
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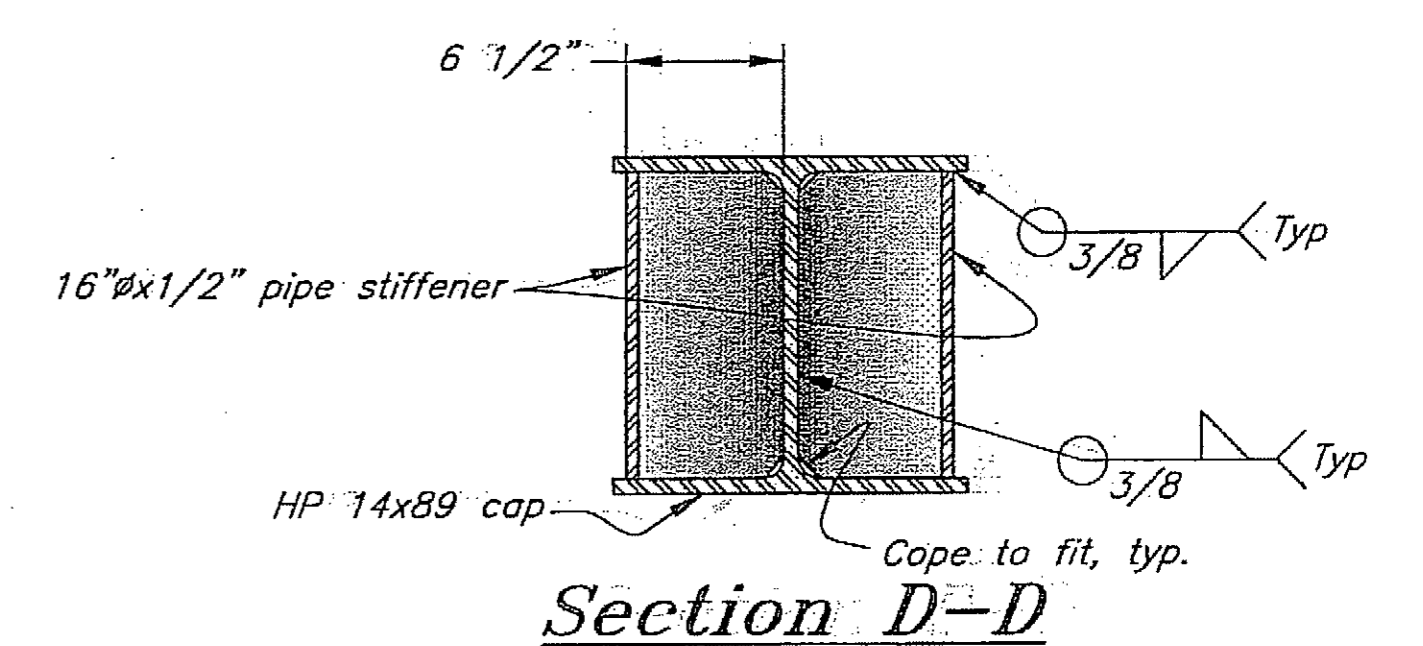
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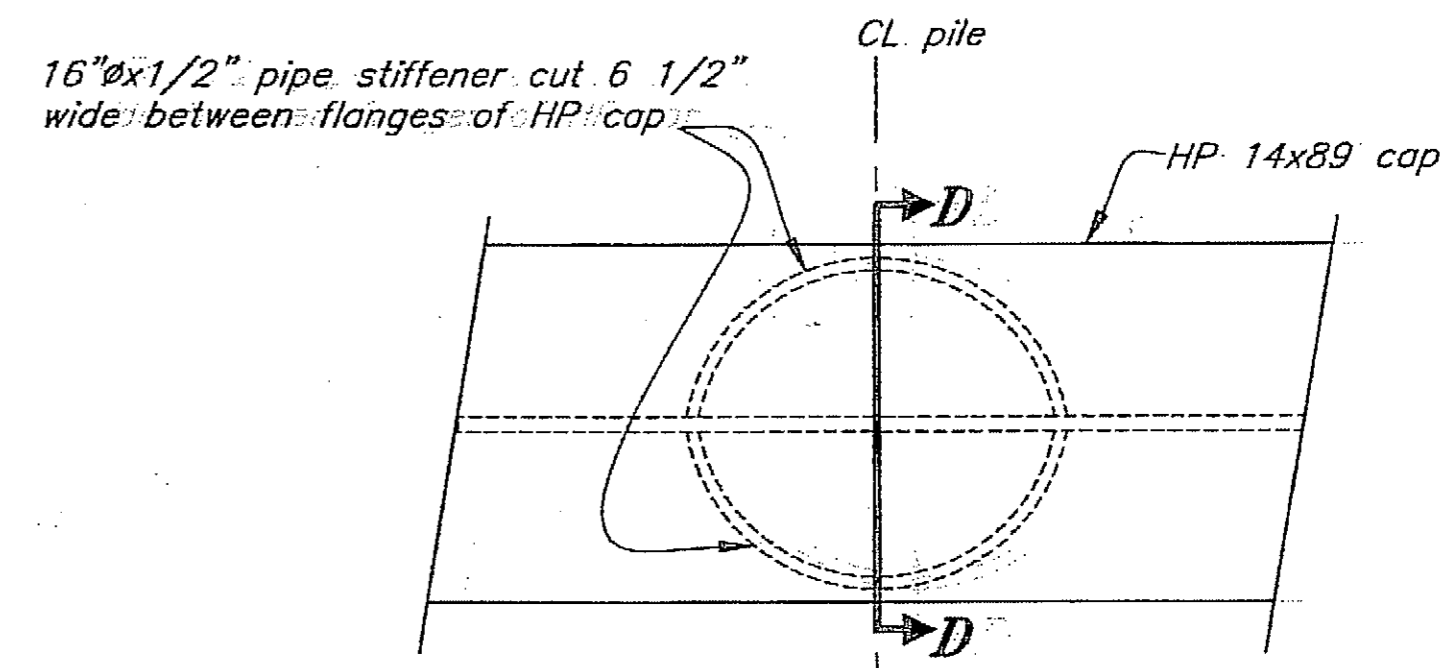
Section B-B



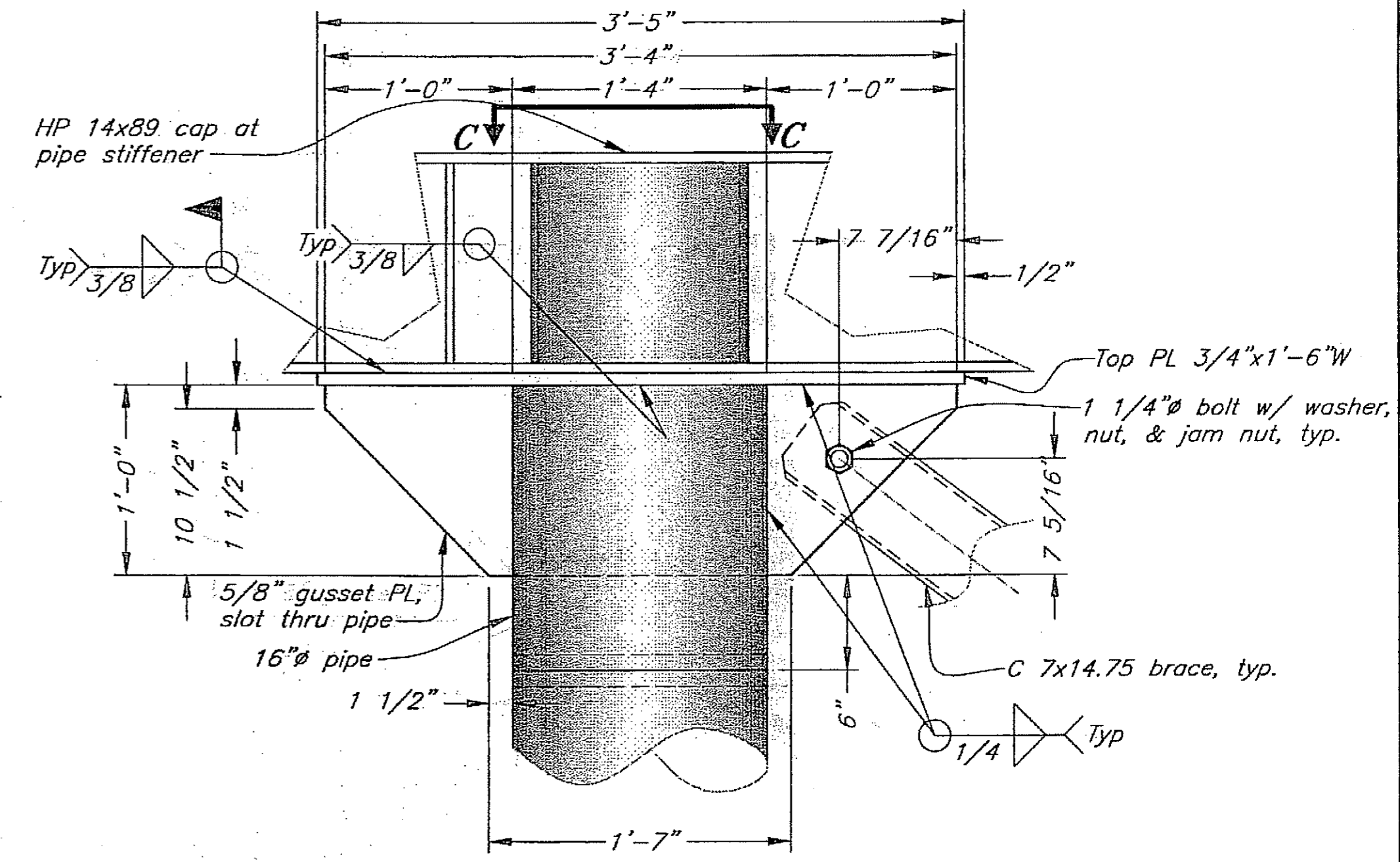
Detail 3
12,14



Section D-D

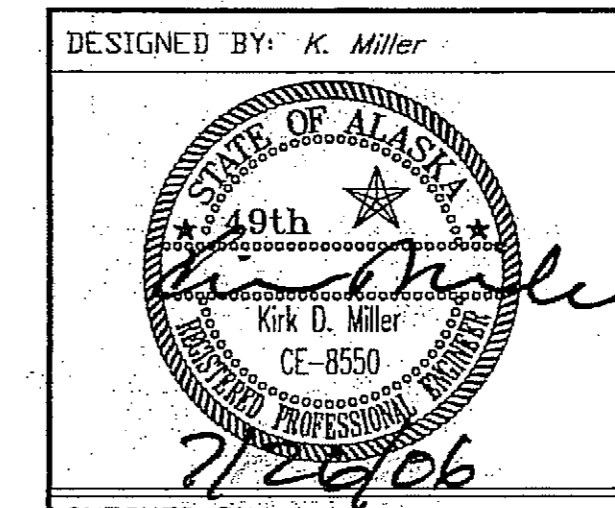


View C-C



Detail 2
10,12,14

Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge the project as constructed.
K. D. Miller
Date 2-22-08
PE



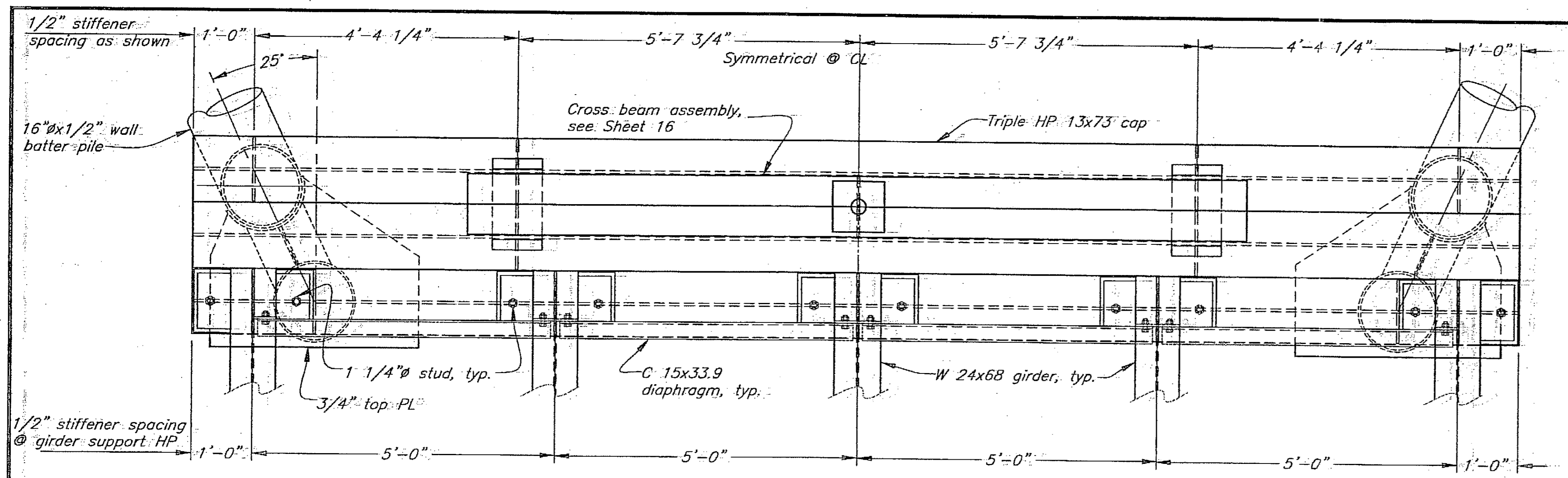
DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
& PUBLIC FACILITIES
STATEWIDE DESIGN & ENGINEERING SERVICES DIVISION
**Clark Bay Seaplane Facility
Project 67497**

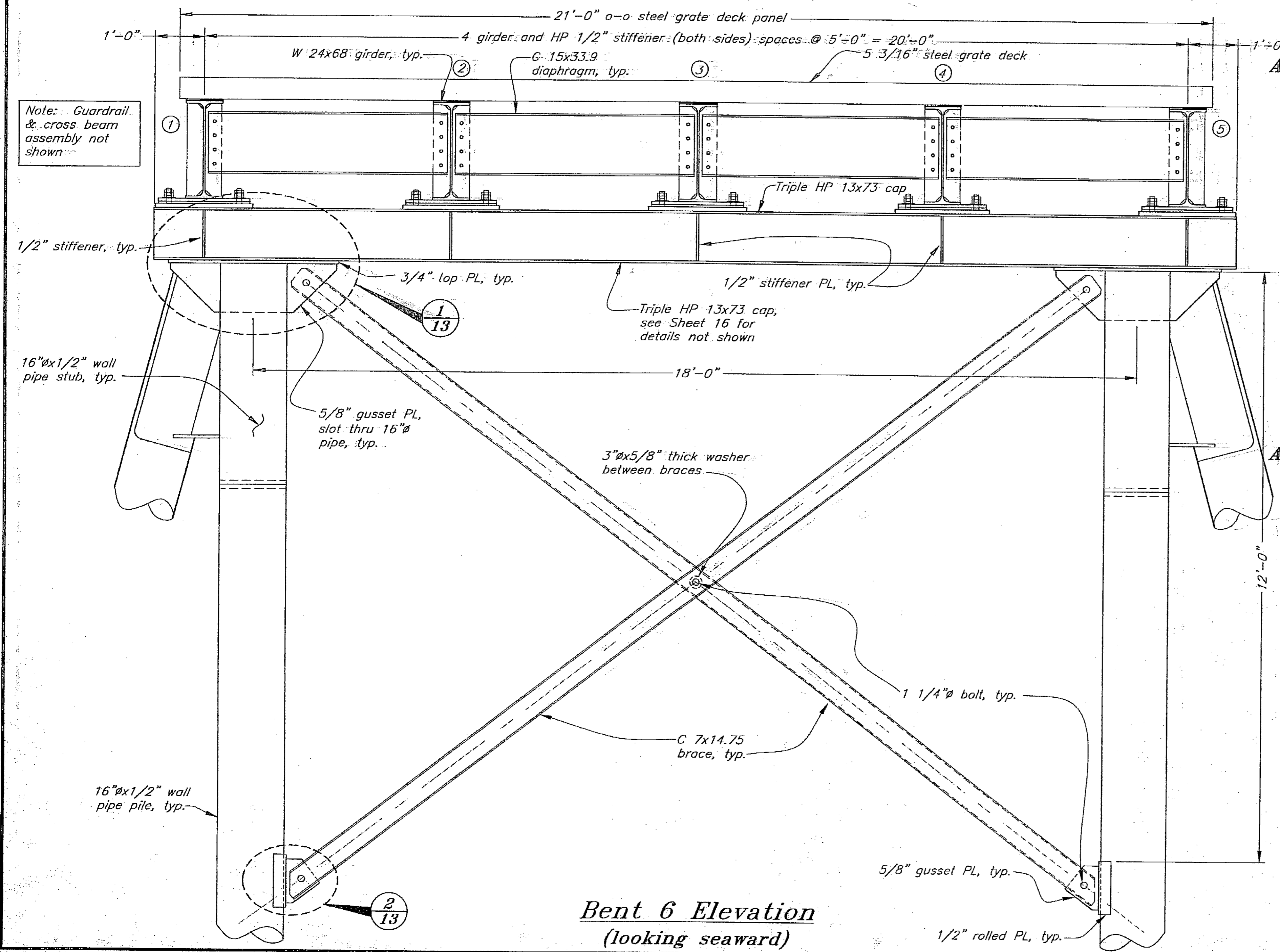
**Approach Trestle
Bents 2-5 Details**

CHECKED BY: J. Beedle
DRAWN BY: C. Fuman/K. Miller
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PLOT: PSPACE 1=1 Tab: Bents 2-5 Details Wed, 26/Jul/06 09:55AM

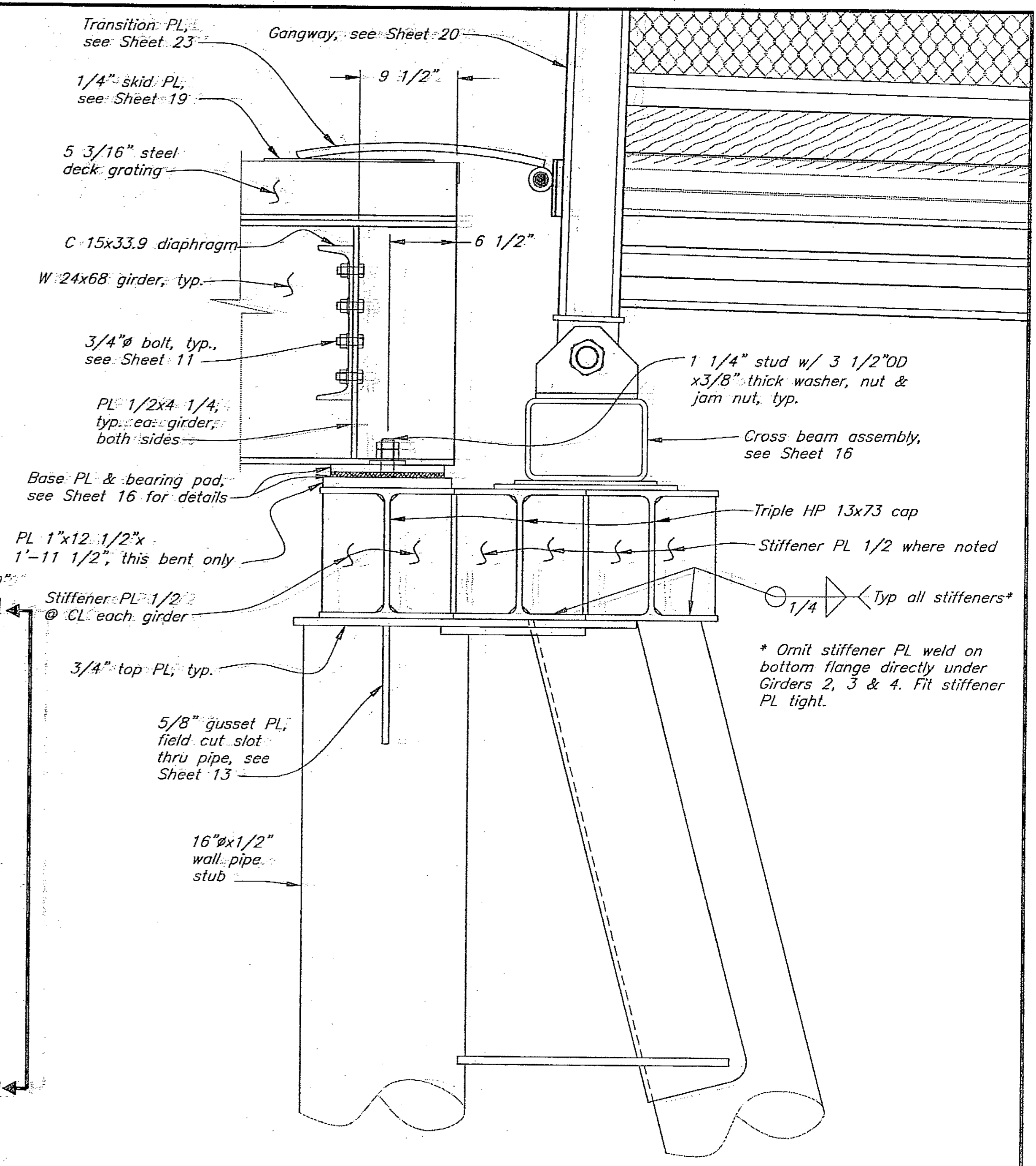
NO.	DATE	REVISIONS DESCRIPTION	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
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Bent 6 Plan



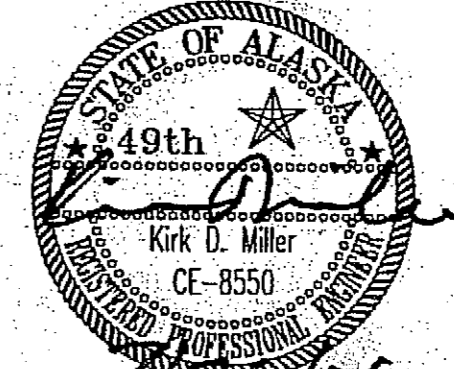
Bent 6 Elevation
(looking seaward)



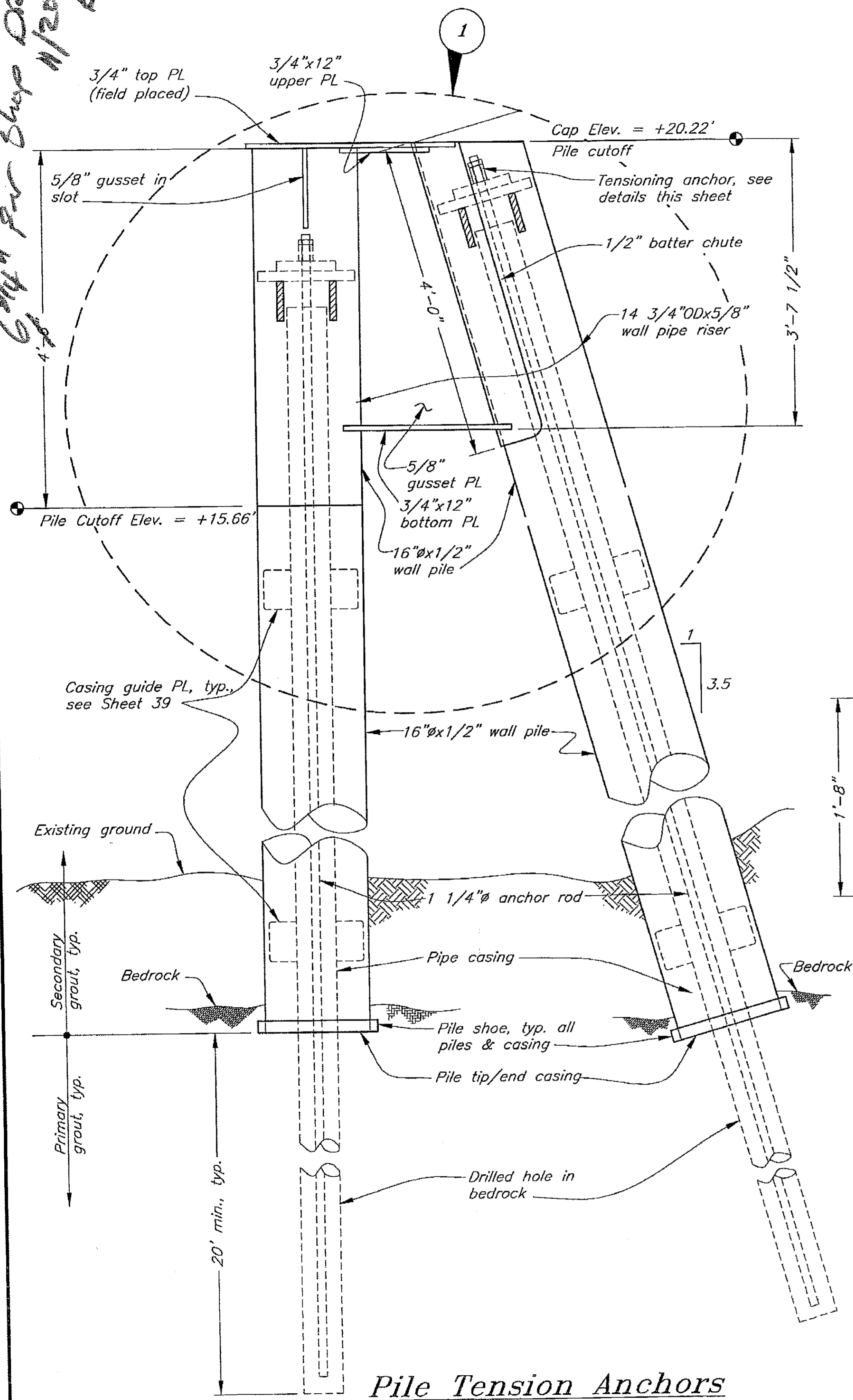
Section A-A

Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge, the project as constructed.
PE: *[Signature]* Date: 2-29-08

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

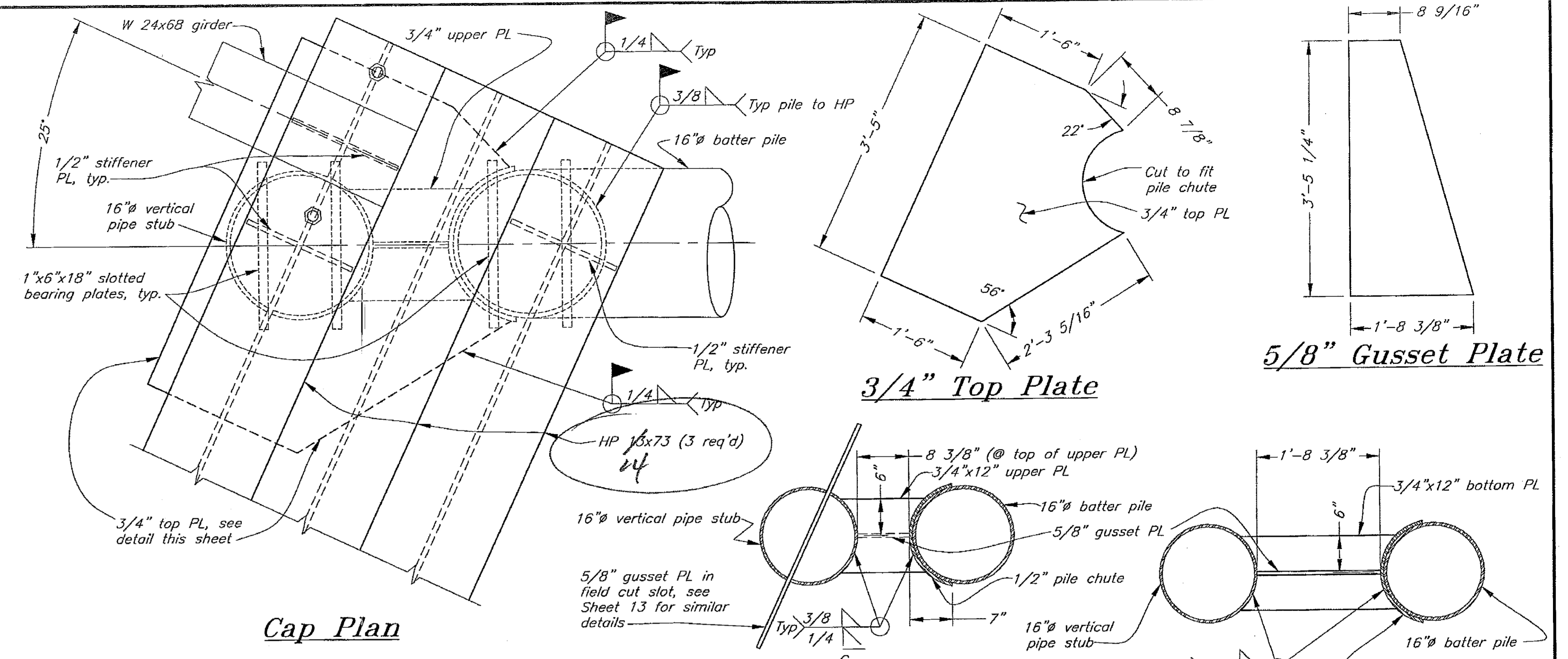
DESIGNED BY: K. Miller		STATE OF ALASKA DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES STATEWIDE DESIGN & ENGINEERING SERVICES DIVISION			
		Clark Bay Seaplane Facility Project 67497			
CHECKED BY: J. Beedle		Approach Trestle Bent 6			
DRAWN BY: C. Fuman/K. Miller		PATH: Q:\Pow\67497\MF\Plans\14-Trestle Bent 6.dwg PLOT: PSPACE 1=1 Tab: P&E			
Wed, 26/Jul/06 09:55AM		PROJECT DESIGNATION: 67497 YEAR: 2006 SHEET NO.: 14 TOTAL SHEETS: 43			
REVISIONS NO. DATE DESCRIPTION					

6" x 4" Pile Shop Drawing!
 1/20/06
 Kam



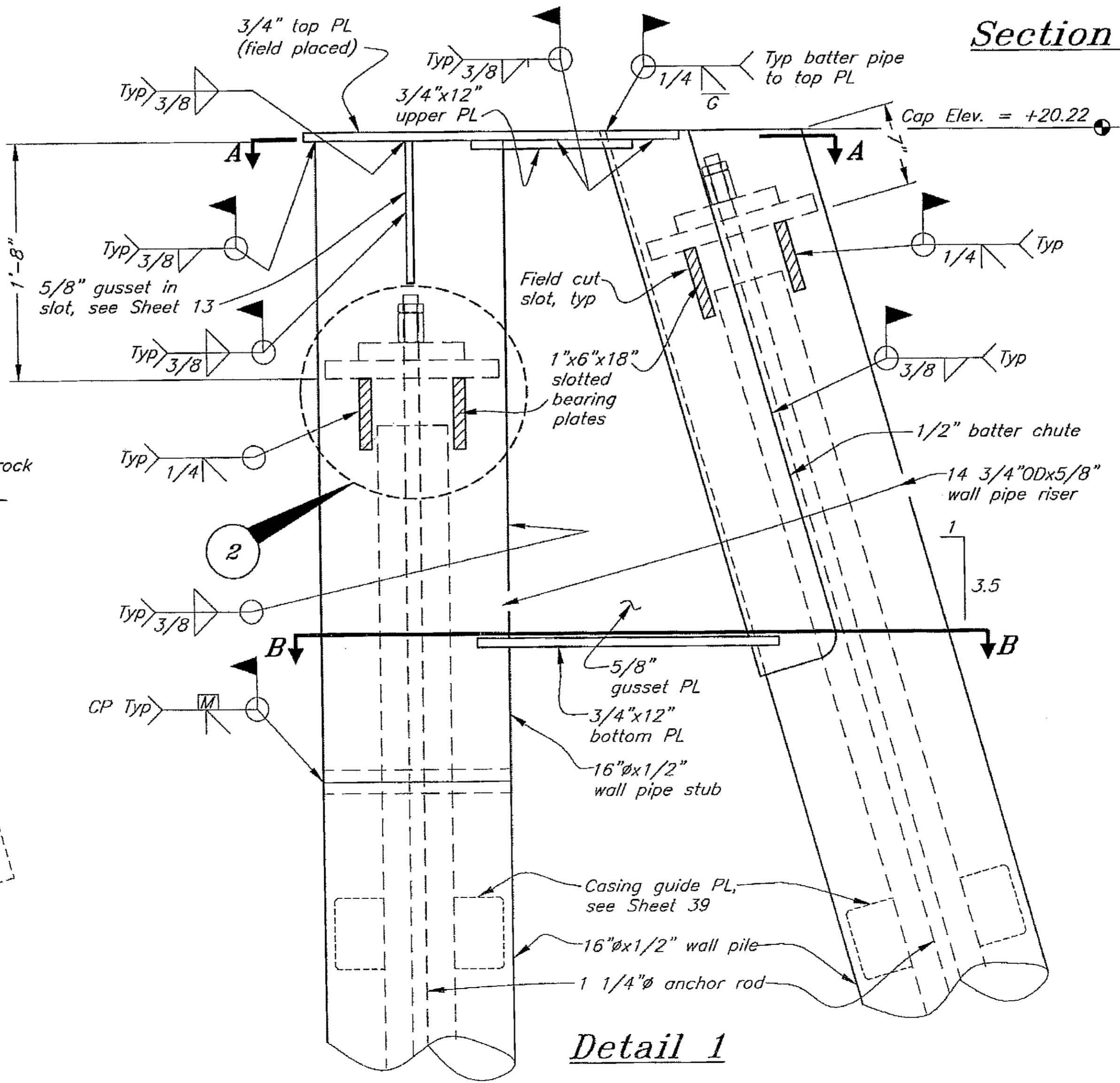
Pile Tension Anchors

- NOTES:**
1. See pile table & notes on Sheet 4 for elevations and anchoring requirements not indicated.
 2. See Sheet 39 for notes & additional rock anchor details not shown.



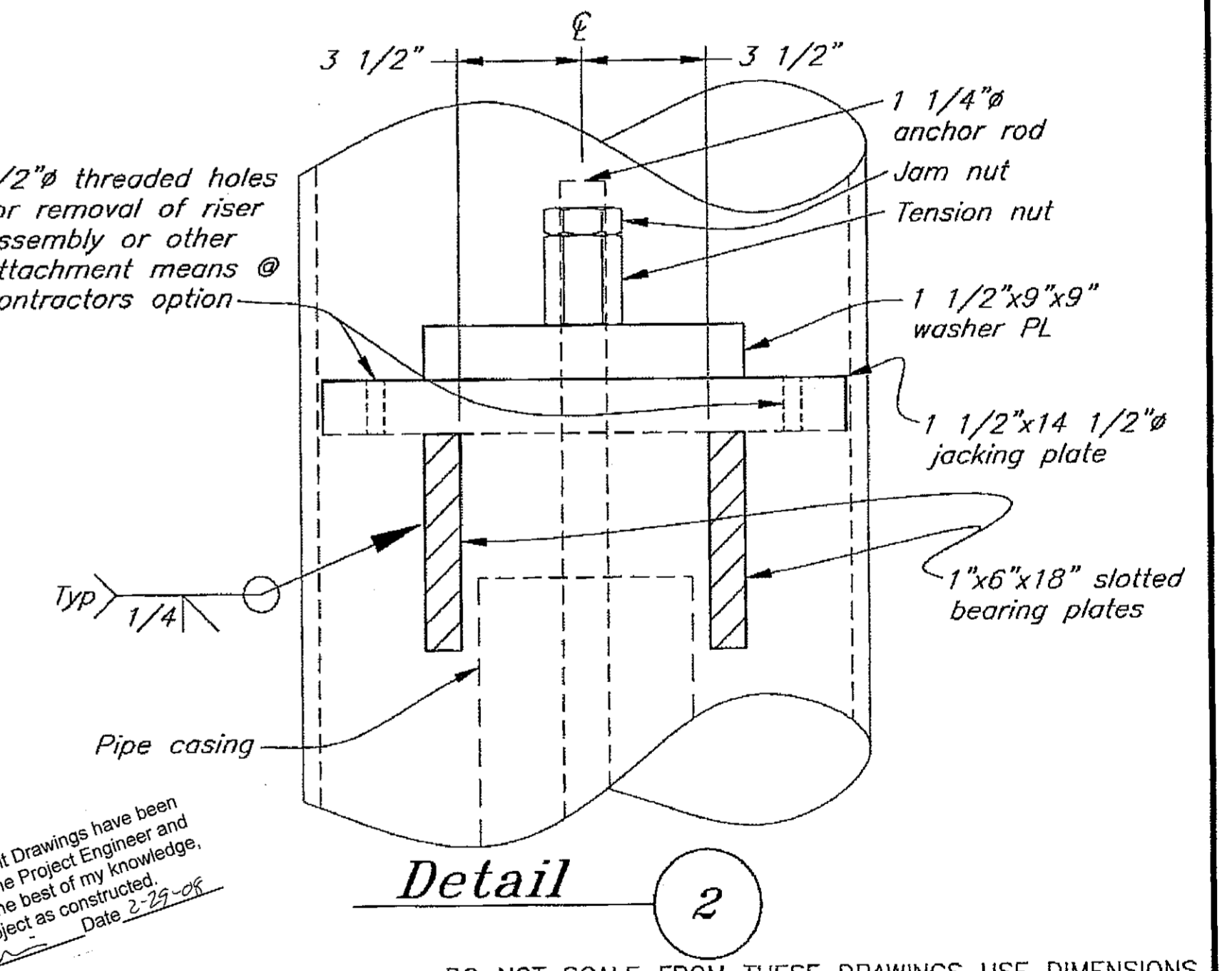
Cap Plan

Section A-A



Section B-B

Detail 1

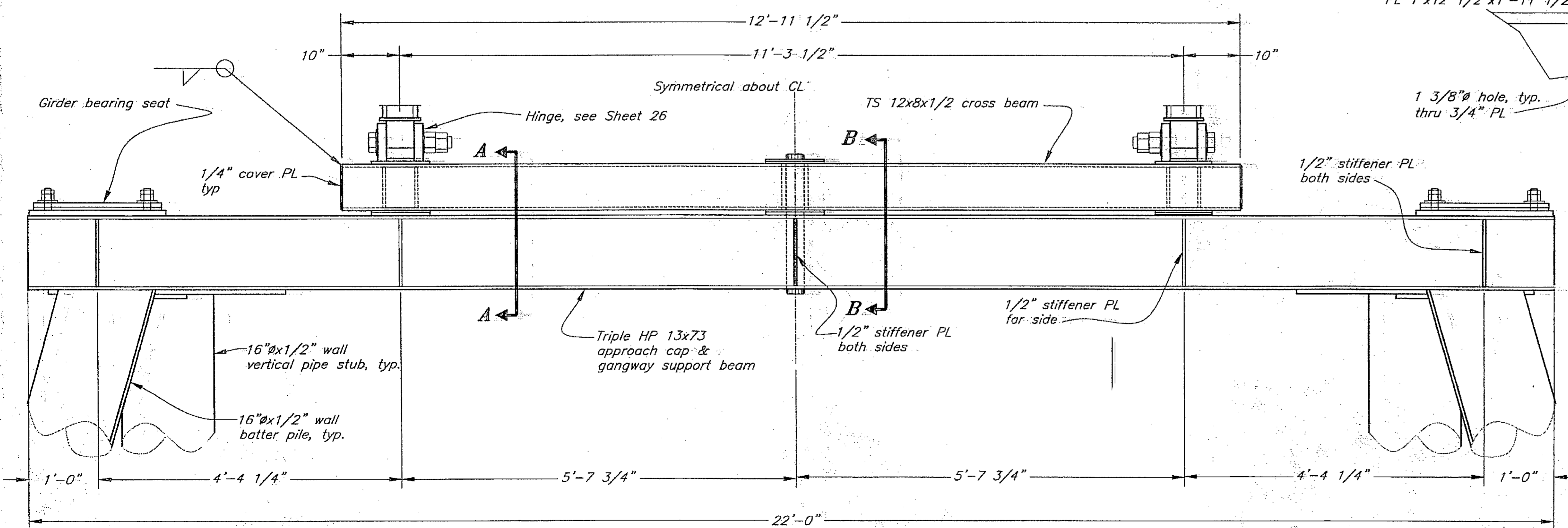
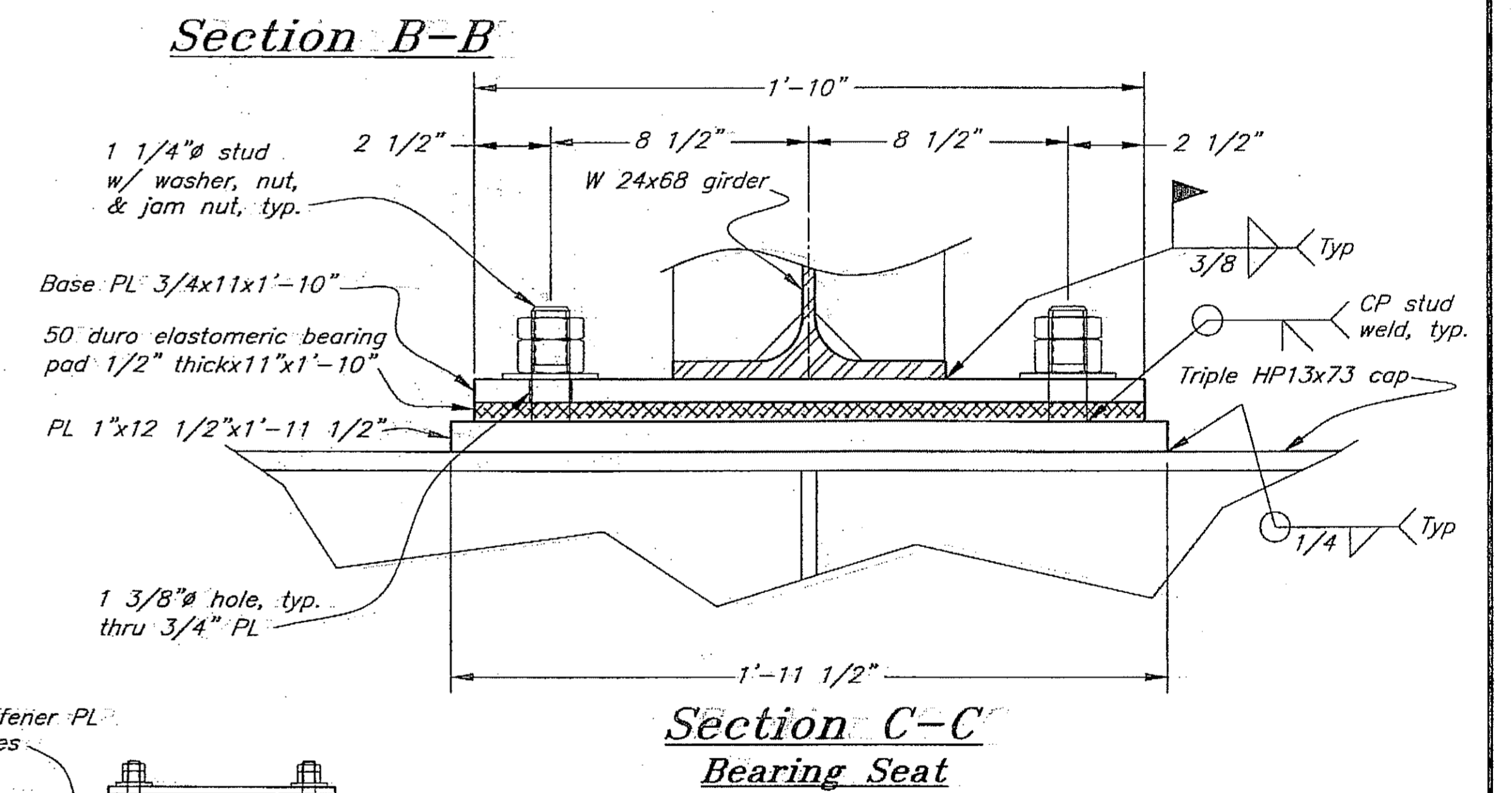
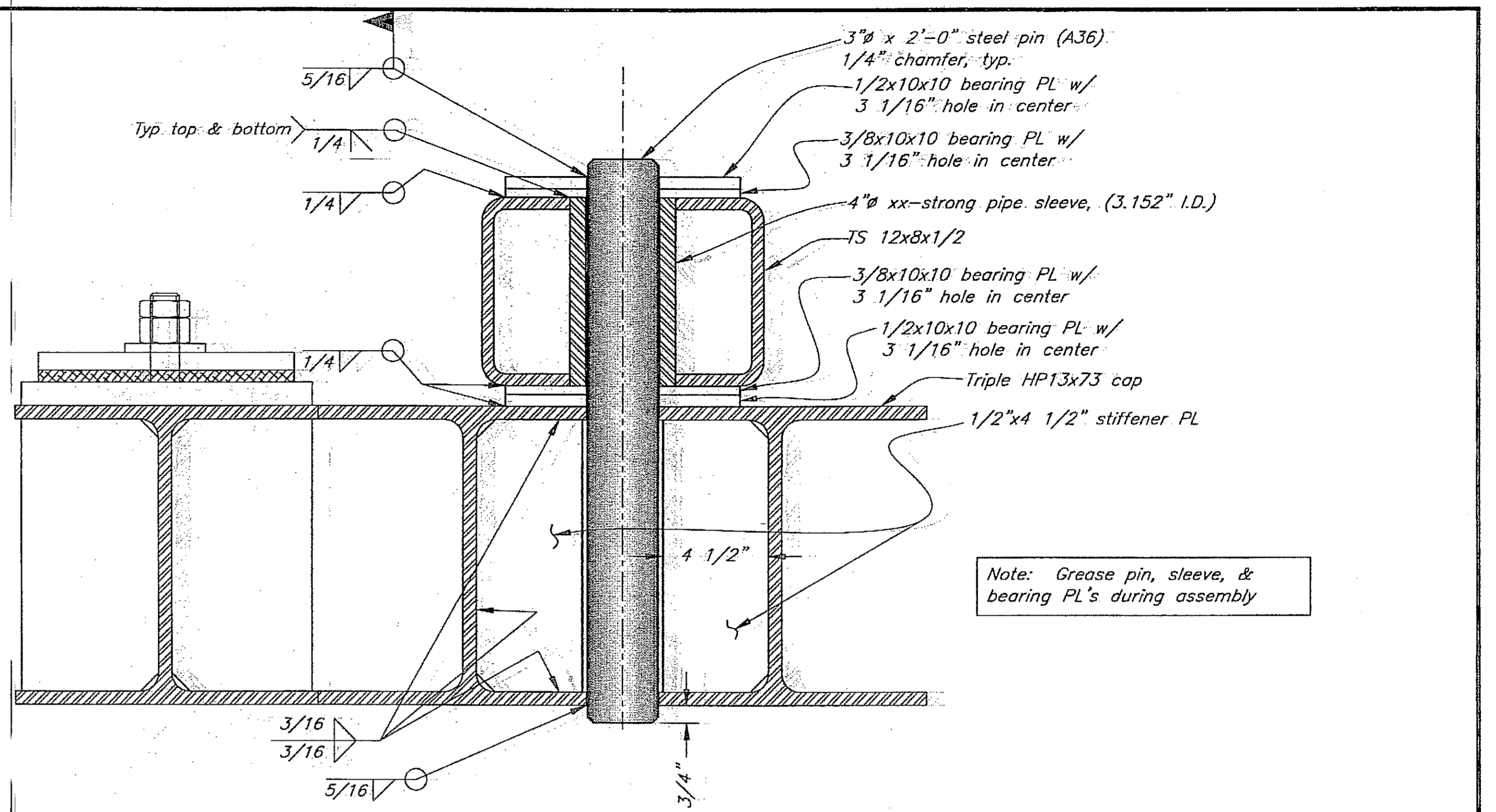
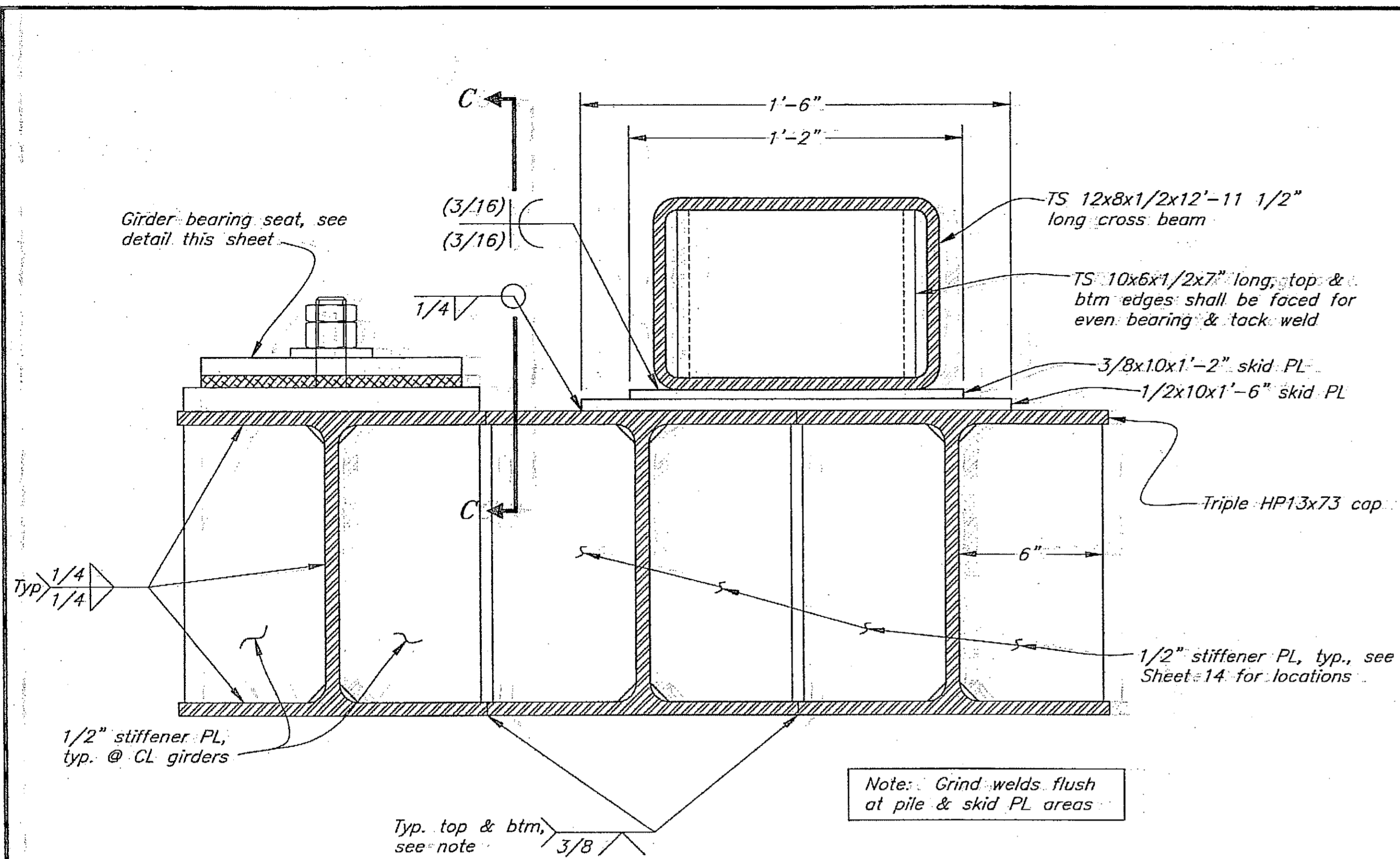


Detail 2

Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge, the project as constructed.
 PE: [Signature] Date: 2-25-08

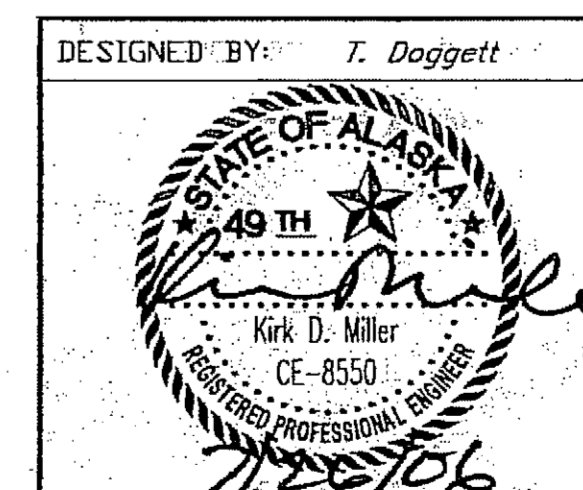
DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

DESIGNED BY: K. Miller		STATE OF ALASKA DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES STATEWIDE DESIGN & ENGINEERING SERVICES DIVISION							
		Clark Bay Seaplane Facility Project 67497							
CHECKED BY: J. Beedle		Approach Trestle Bent 6 Details (Rev)							
DRAWN BY: C. Furnan/K. Miller		PROJECT DESIGNATION: 67497							
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NO.	DATE	DESCRIPTION							
1	11-8-06	Revised tension anchor details							



Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge, the project as constructed.
 PE Kirk D. Miller Date 2-25-08

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

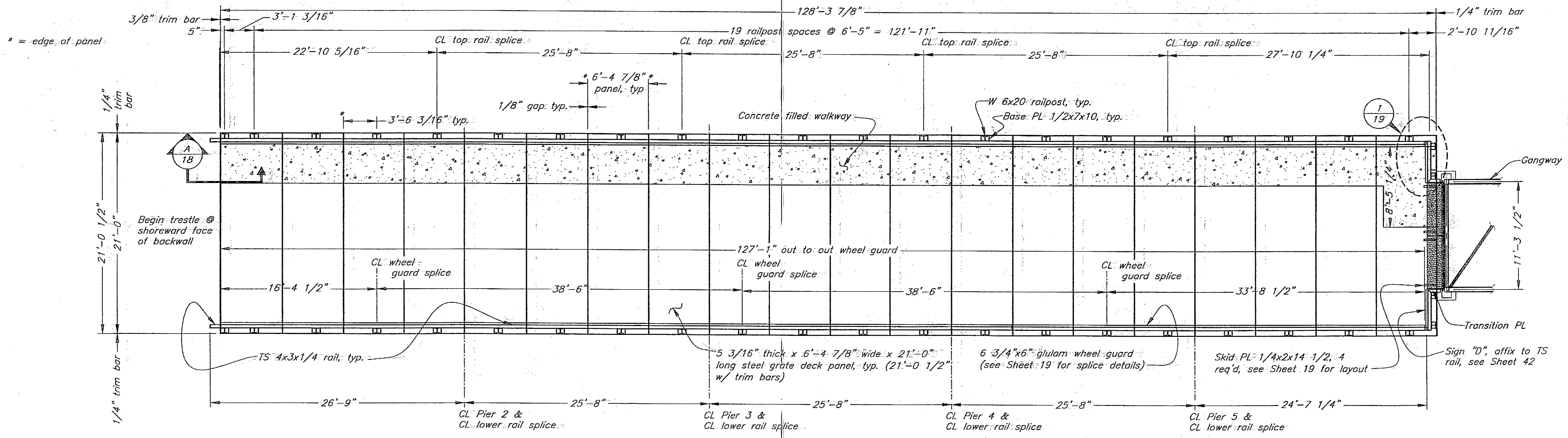
**Clark Bay Seaplane Facility
 Project 67497**

**Trestle Approach Bent 6
 Cap & Cross Beam
 Details**

CHECKED BY: J. Beadle
 DRAWN BY: Staff/C. Furman

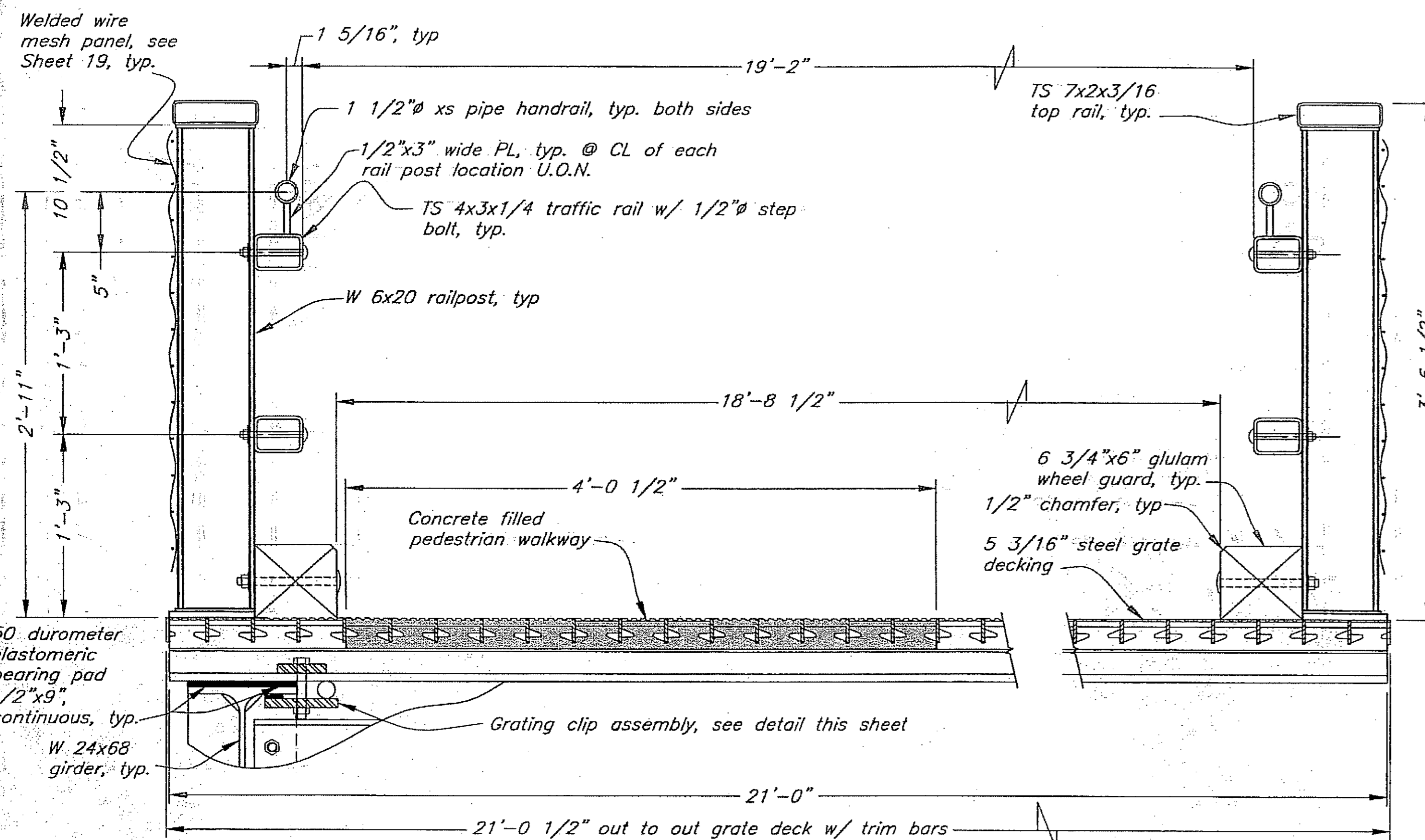
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REVISIONS			PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
NO.	DATE	DESCRIPTION				
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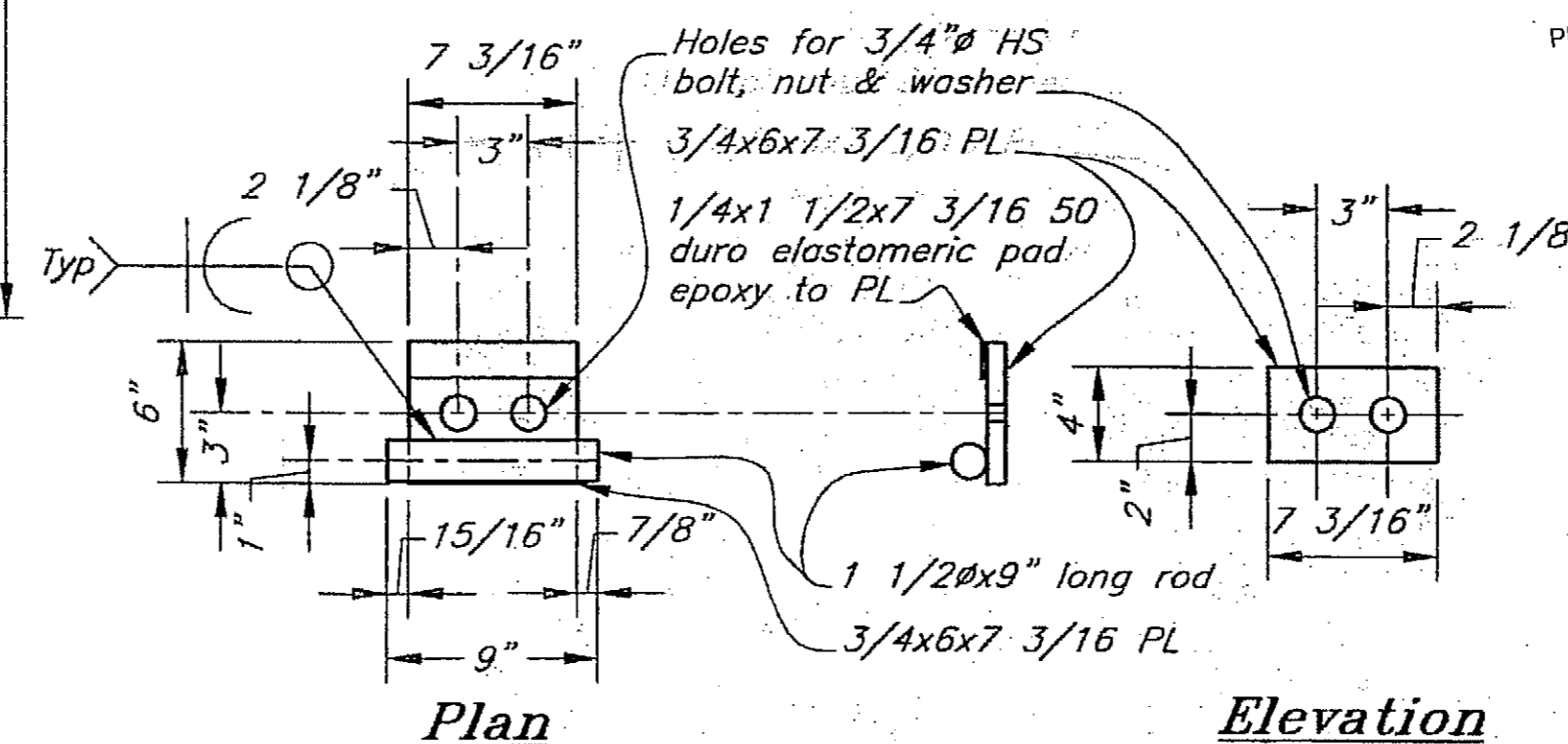
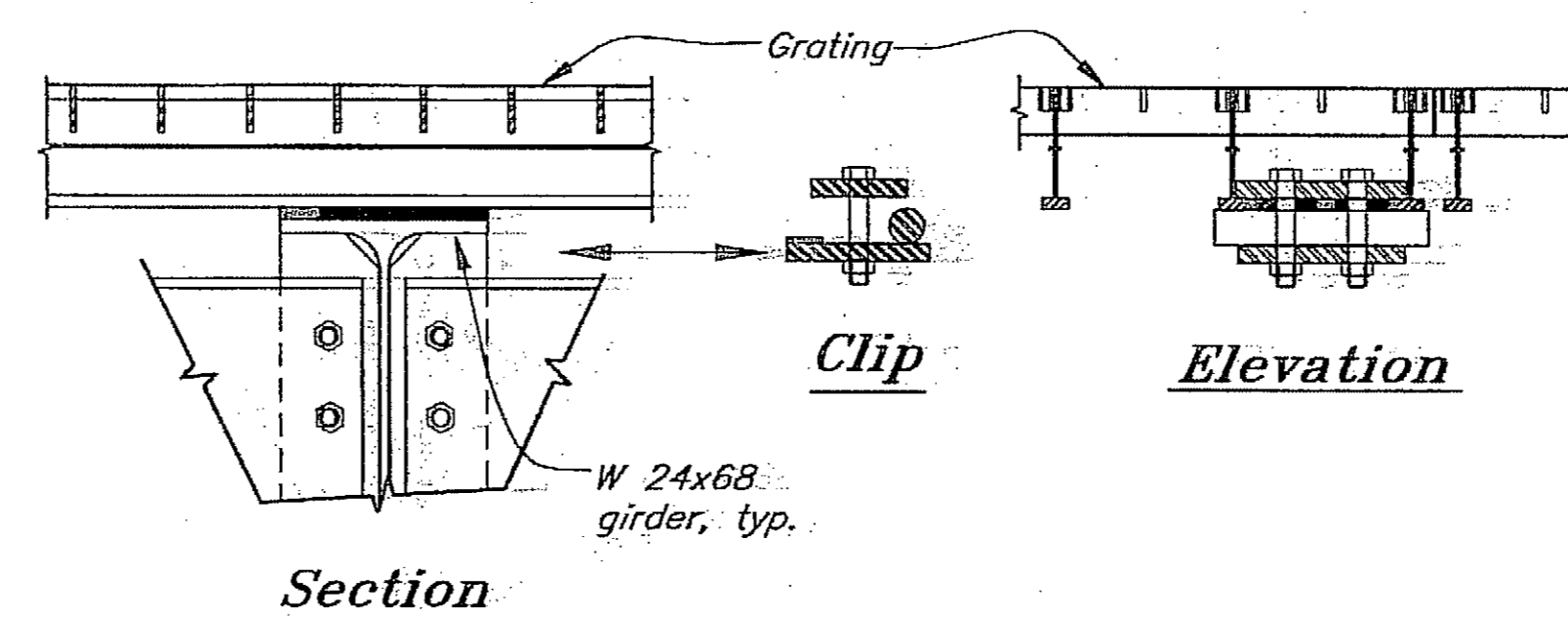
Approach Trestle Deck Panel Layout

Note: 7x2 top rail not shown for clarity

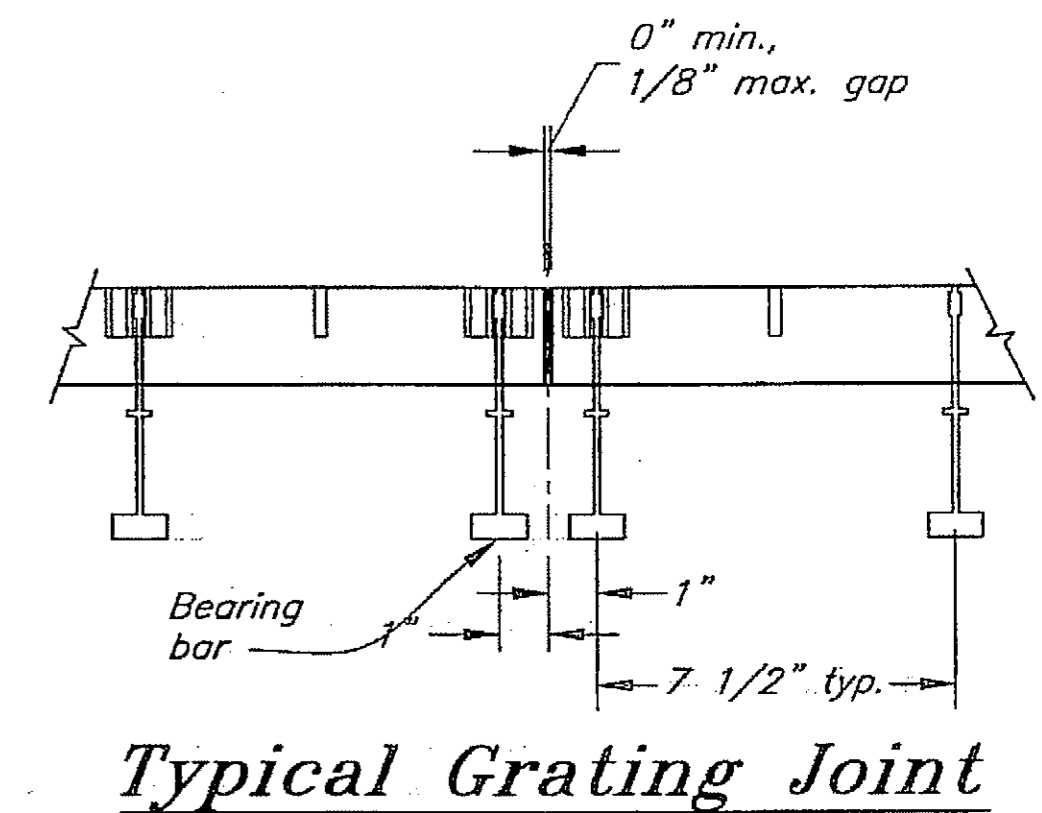


Typical Section (looking seaward)

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



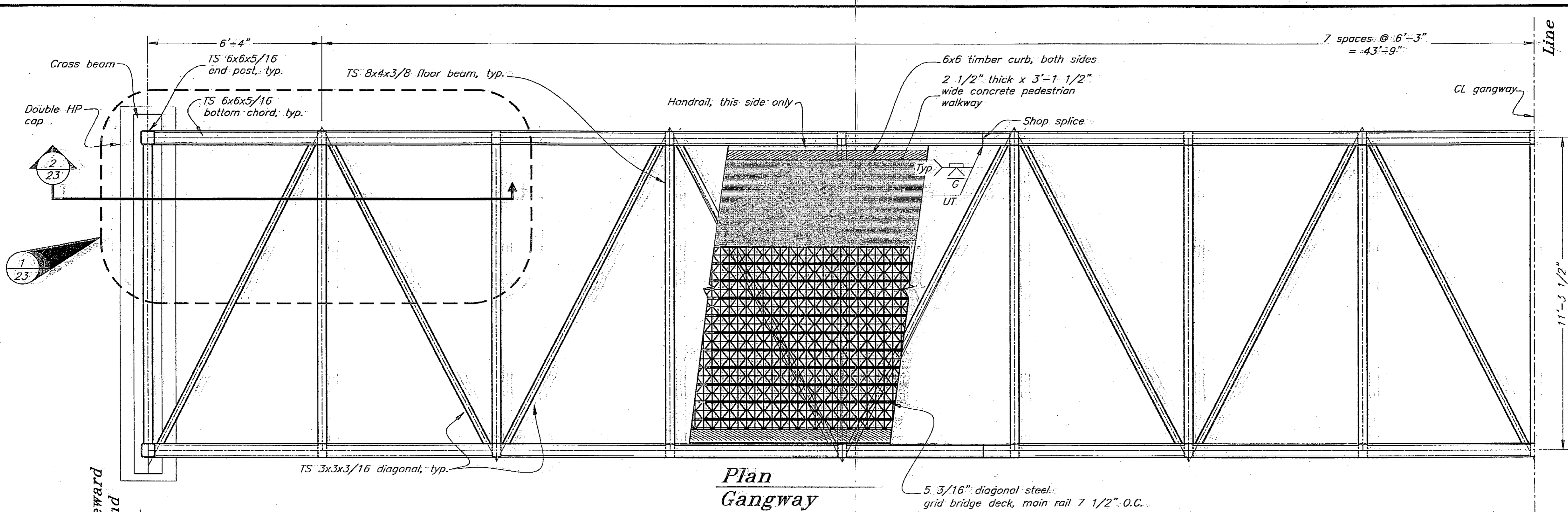
Grate Decking Clip Assembly (Typ 2 per Girder per Panel)



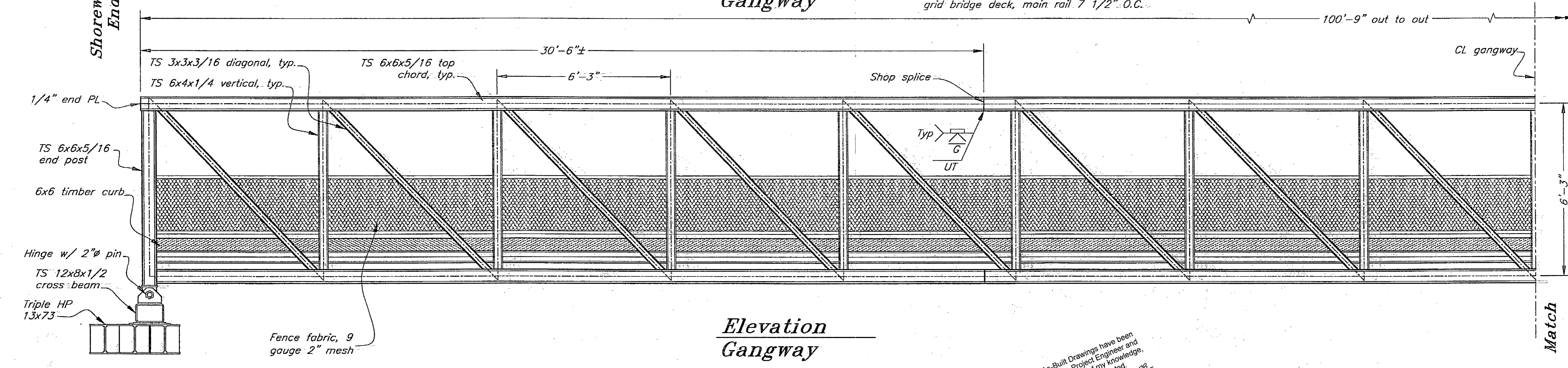
Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge, the project as constructed.
PE: J. Beeble Date: 2-29-08

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

DESIGNED BY: K. Miller		STATE OF ALASKA DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES STATEWIDE DESIGN & ENGINEERING SERVICES DIVISION			
		Clark Bay Seaplane Facility Project 67497			
CHECKED BY: J. Beeble		Approach Trestle Deck Panel Layout			
DRAWN BY: C. Fuman/K. Miller		PROJECT DESIGNATION		YEAR	TOTAL SHEETS
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PLOT: PSPACE 1=1 Tab: Deck Panels				Wed, 26/Jul/06 05:00PM	43
REVISIONS					
NO.	DATE	DESCRIPTION			



**Plan
Gangway**



**Elevation
Gangway**

Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge, the project as constructed.
 PE. *[Signature]* Date 2-27-08

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.

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

DESIGNED BY: T. Doggett

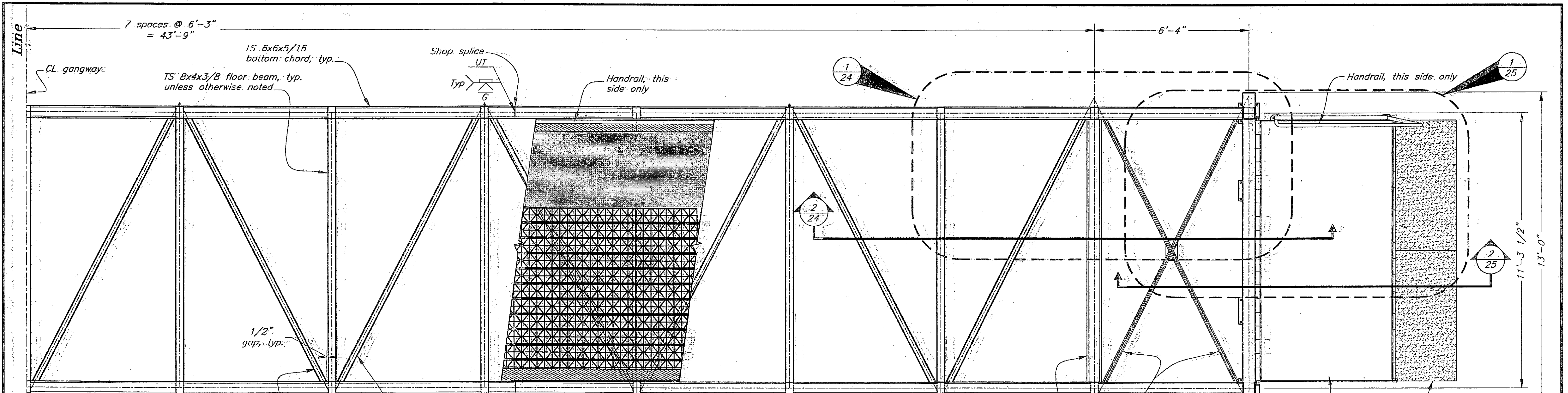
STATE OF ALASKA
 DEPARTMENT OF TRANSPORTATION
 & PUBLIC FACILITIES
 STATEWIDE DESIGN & ENGINEERING SERVICES DIVISION

**Clark Bay Seaplane Facility
 Project 67497**

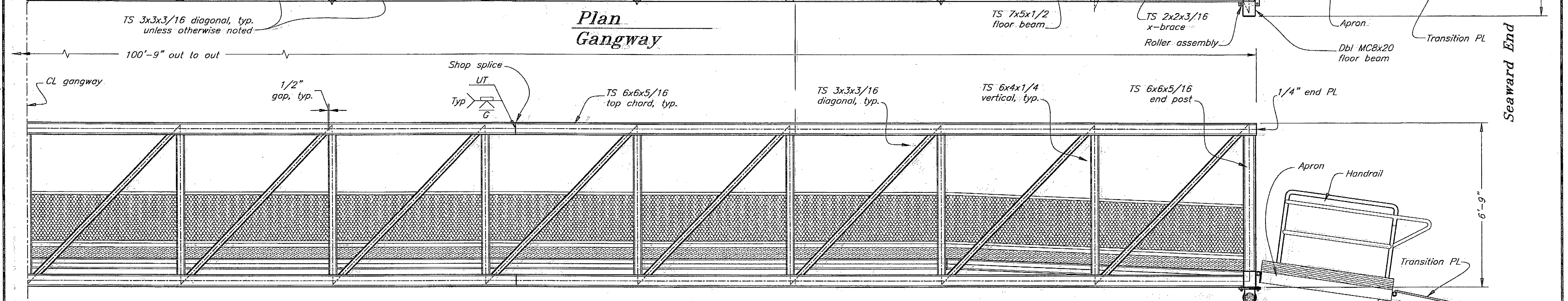
**Gangway
 Shoreward End**

CHECKED BY: J. Beadle
 DRAWN BY: T. Doggett/T. Mores
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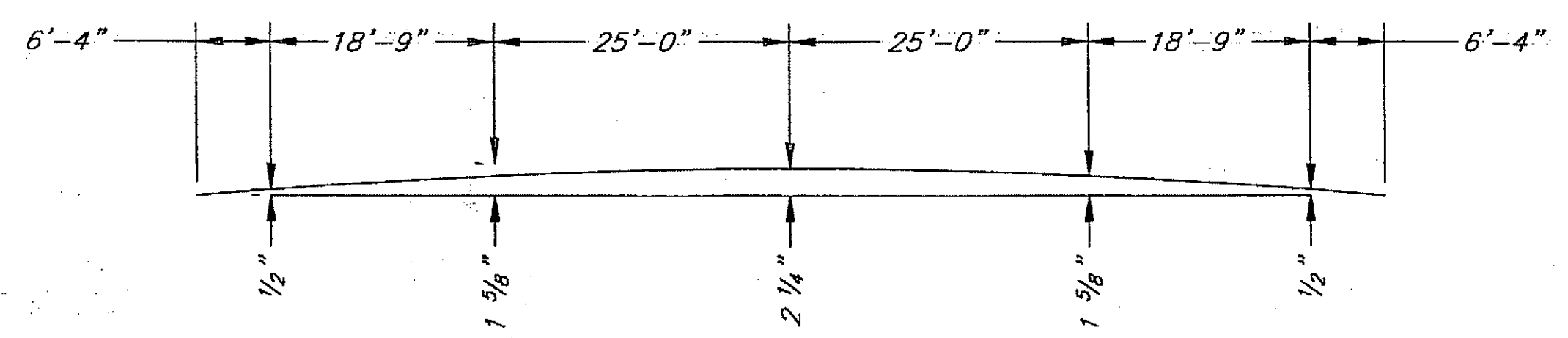
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NO.	DATE				
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**Plan
Gangway**

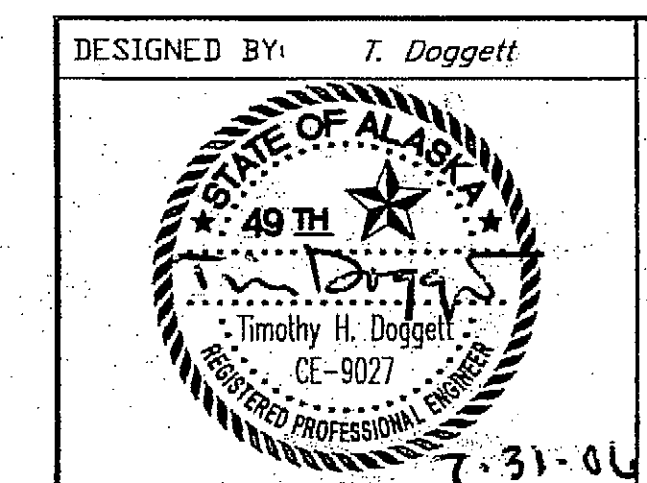


**Elevation
Gangway**



Camber Diagram

Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge the project as constructed.
 PE: [Signature] Date 2-27-08



DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

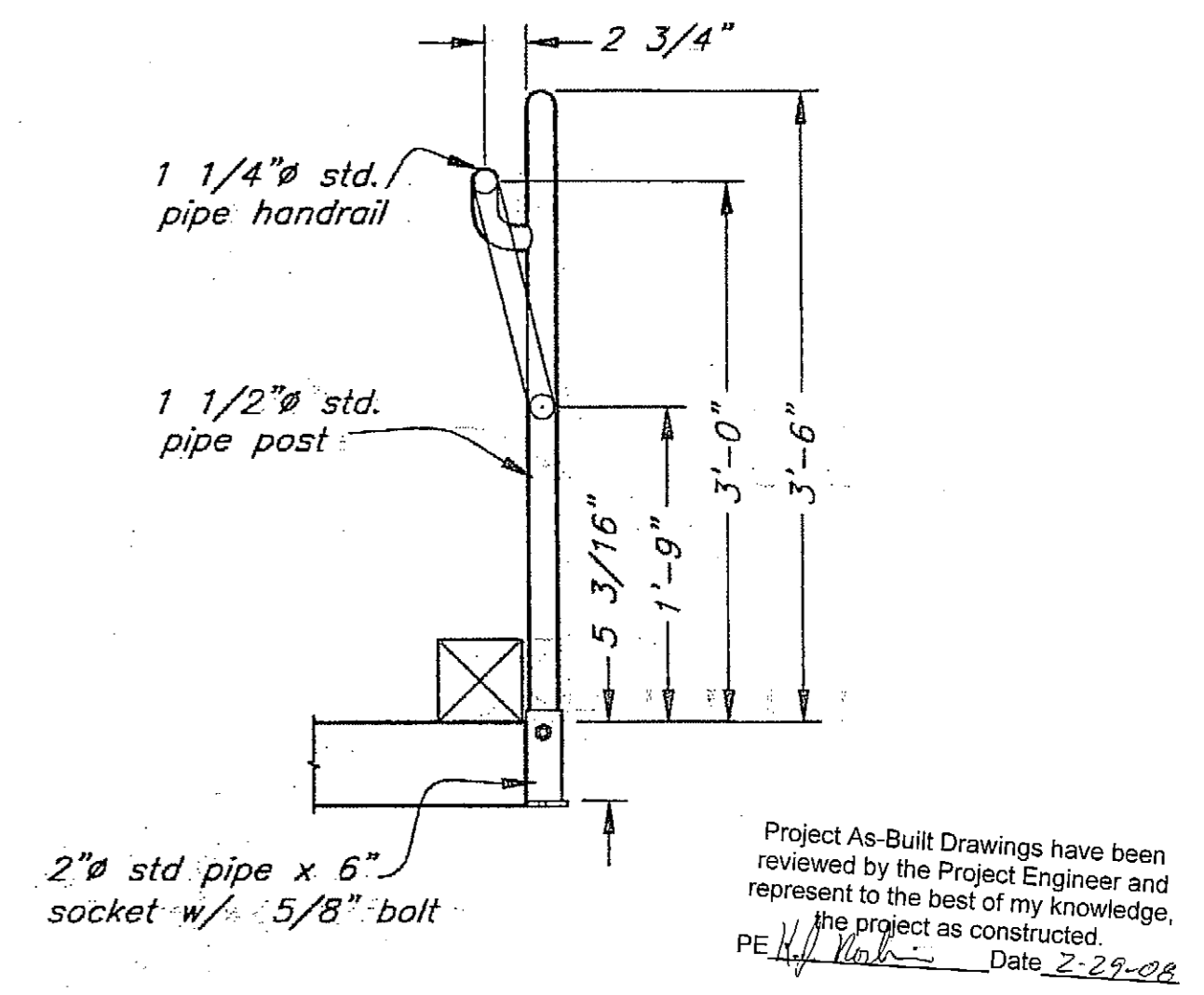
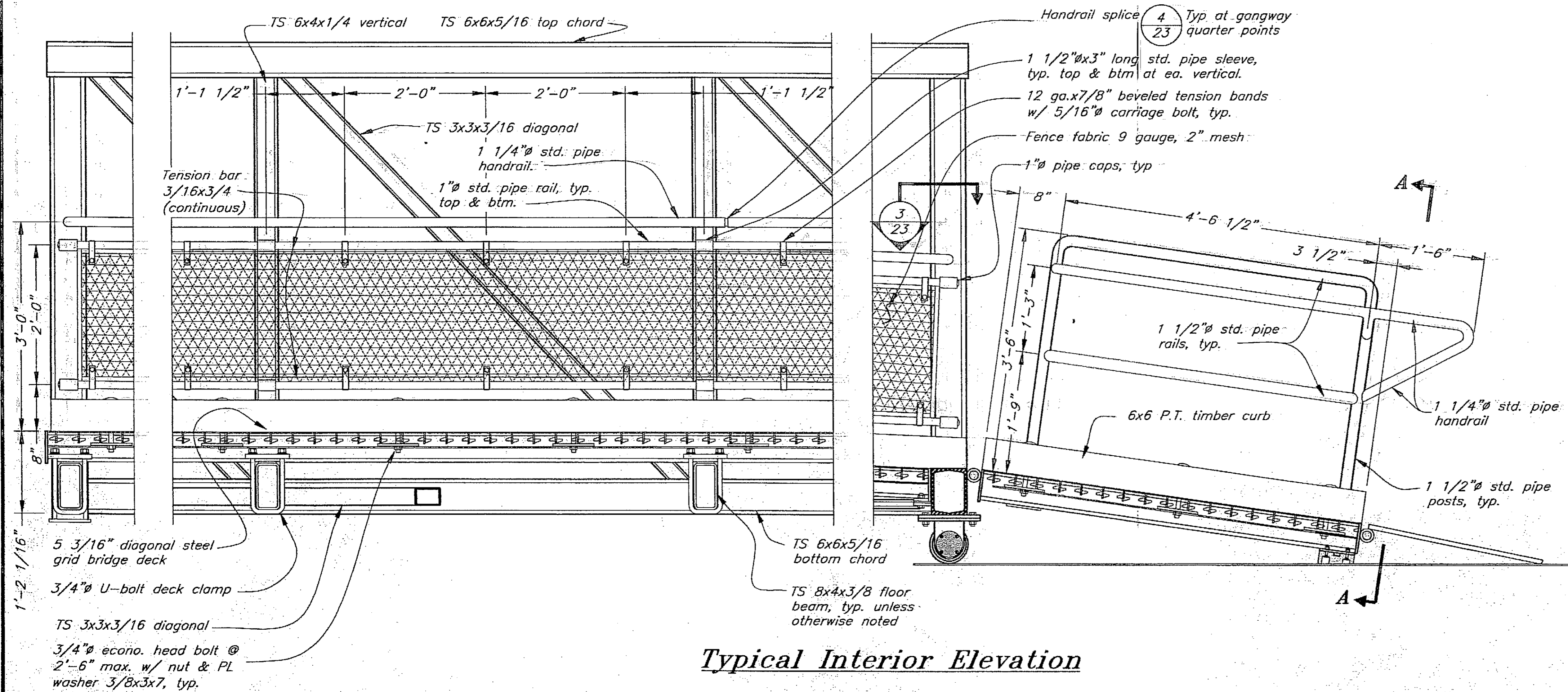
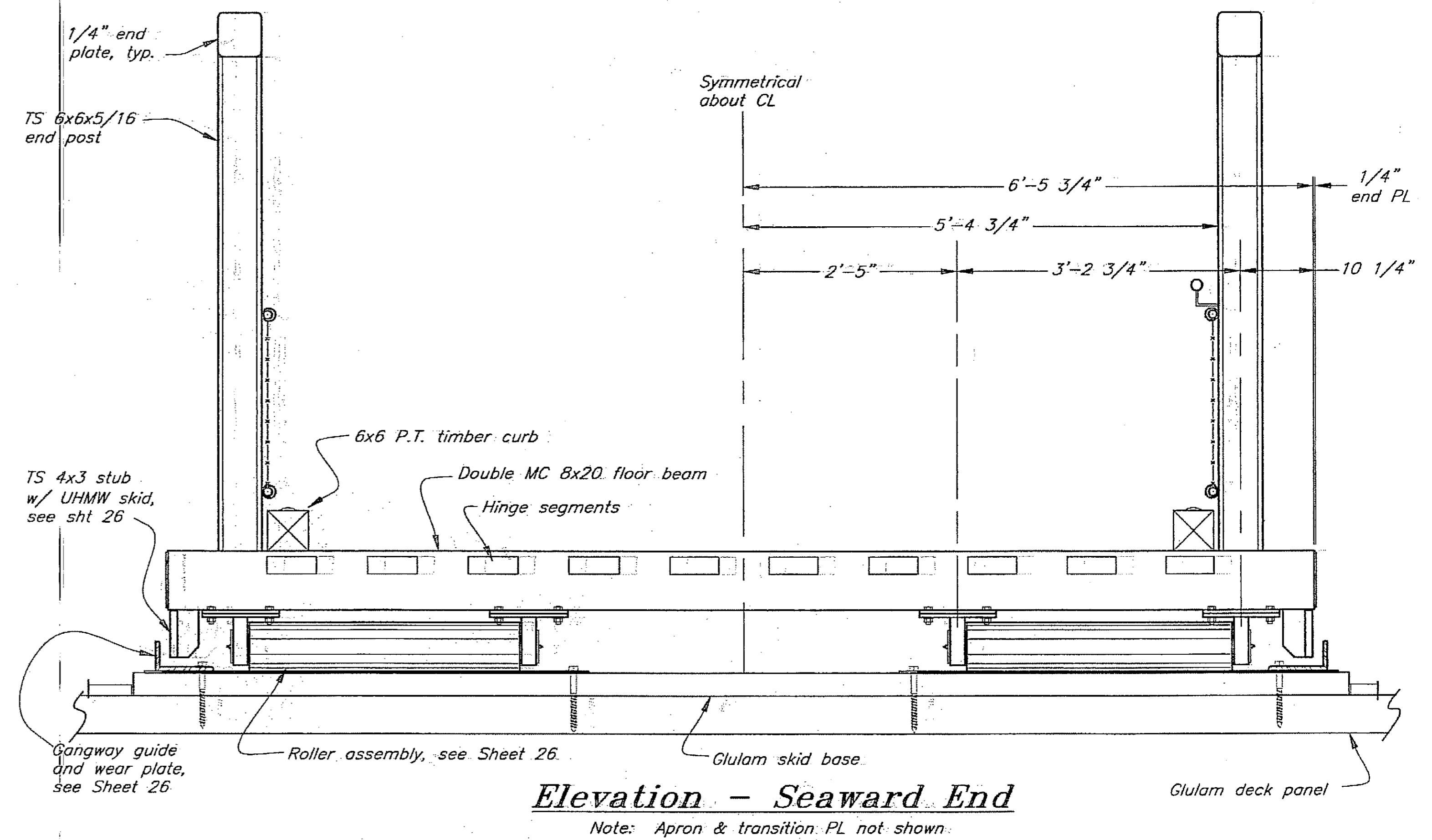
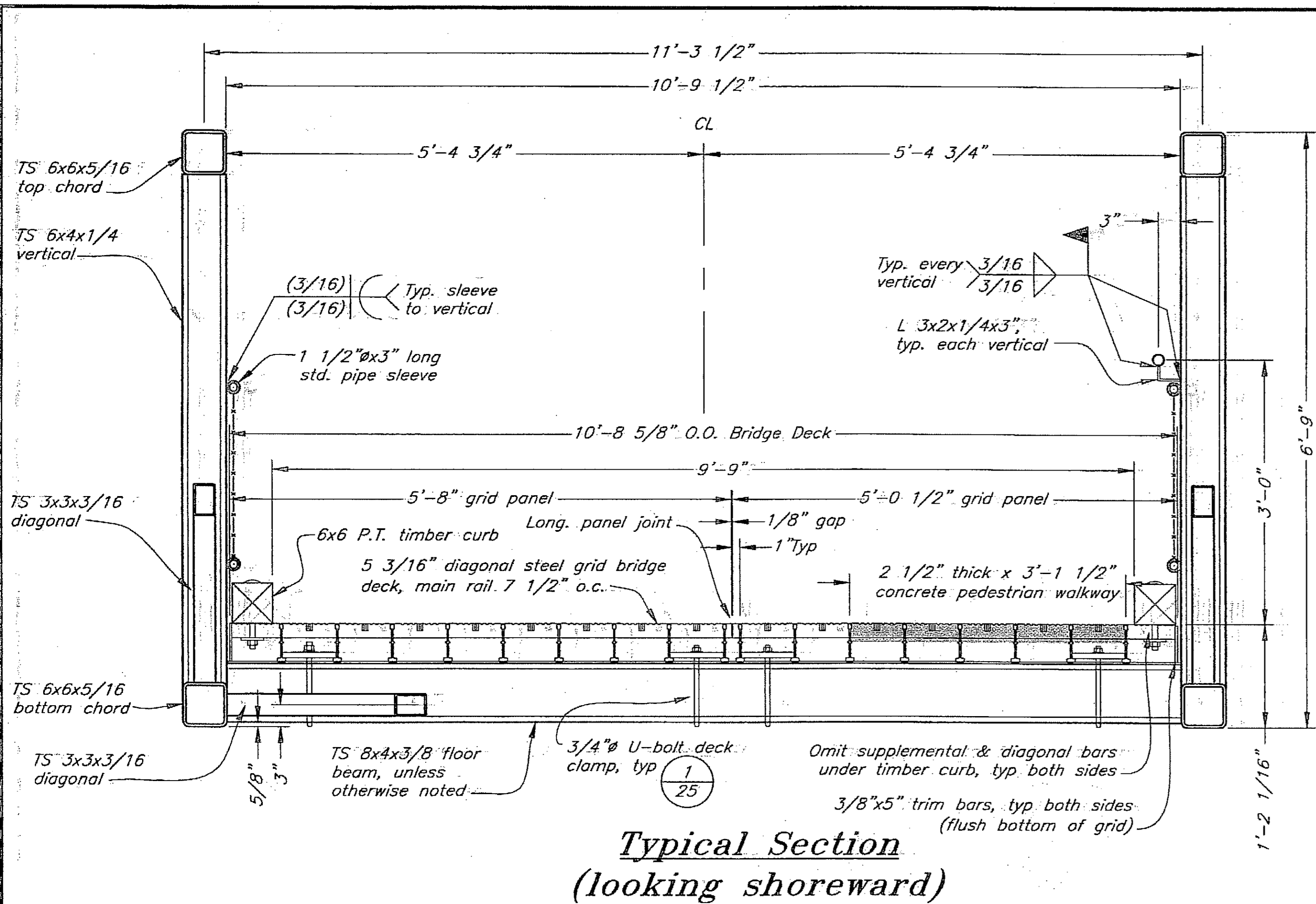
STATE OF ALASKA
 DEPARTMENT OF TRANSPORTATION
 & PUBLIC FACILITIES
 STATEWIDE DESIGN & ENGINEERING SERVICES DIVISION

**Clark Bay Seaplane Facility
 Project 67497**

Gangway Seaward End

DESIGNED BY: T. Doggett
 CHECKED BY: J. Beadle
 DRAWN BY: T. Doggett/T. Mores
 PATH: Q:\Pow\67497\MF\Plans\21-Gangway 2.dwg
 PLOT: PSPACE 1=1. Tab: Gangway 2 Mon, 31/Jul/06 10:47AM

NO.	DATE	REVISIONS DESCRIPTION	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			67497	2006	21	43



DESIGNED BY: T. Doggett

CHECKED BY: J. Beedle

DRAWN BY: T. Doggett/C. Fuman

PATH: Q:\Pow\67497\MF\Plans\22-Gangway Typ Sections.dwg

PLDT: PSPACE 1=1 Tab: Gangway typ sect Mon, 31/Jul/06 10:34AM

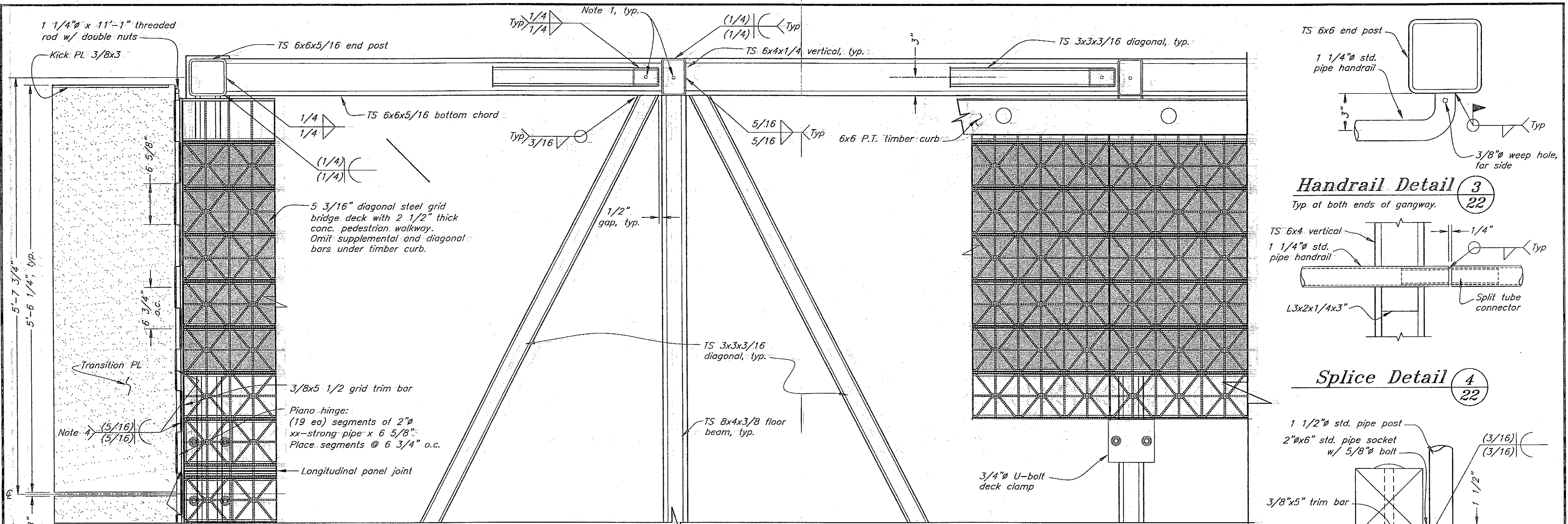
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
STATEWIDE DESIGN & ENGINEERING SERVICES DIVISION

Clark Bay Seaplane Facility
Project 67497

Gangway Typical Sections & Elevations

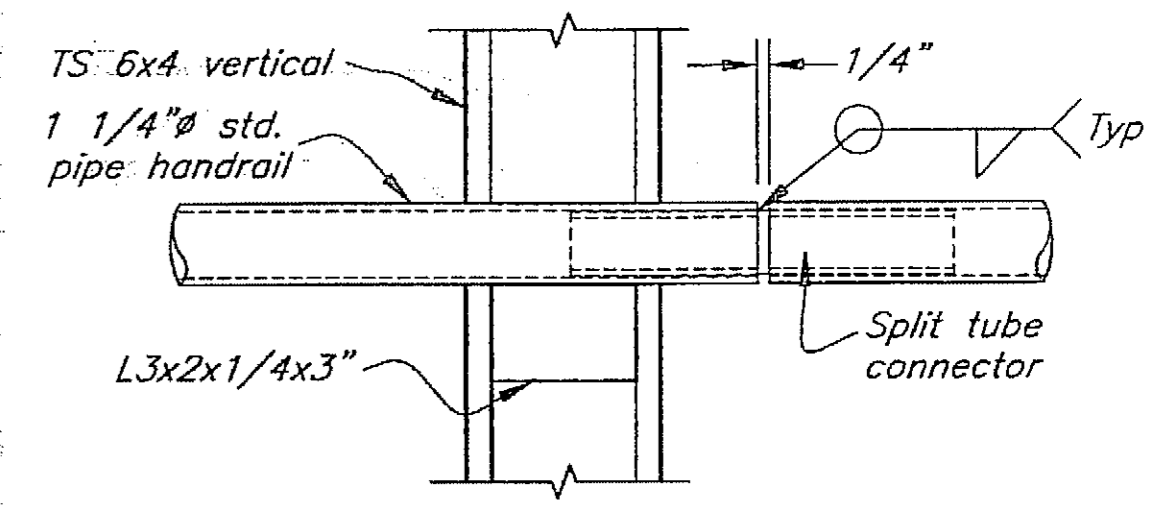
7-31-06

REVISIONS			PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
NO.	DATE	DESCRIPTION				
			67497	2006	22	43

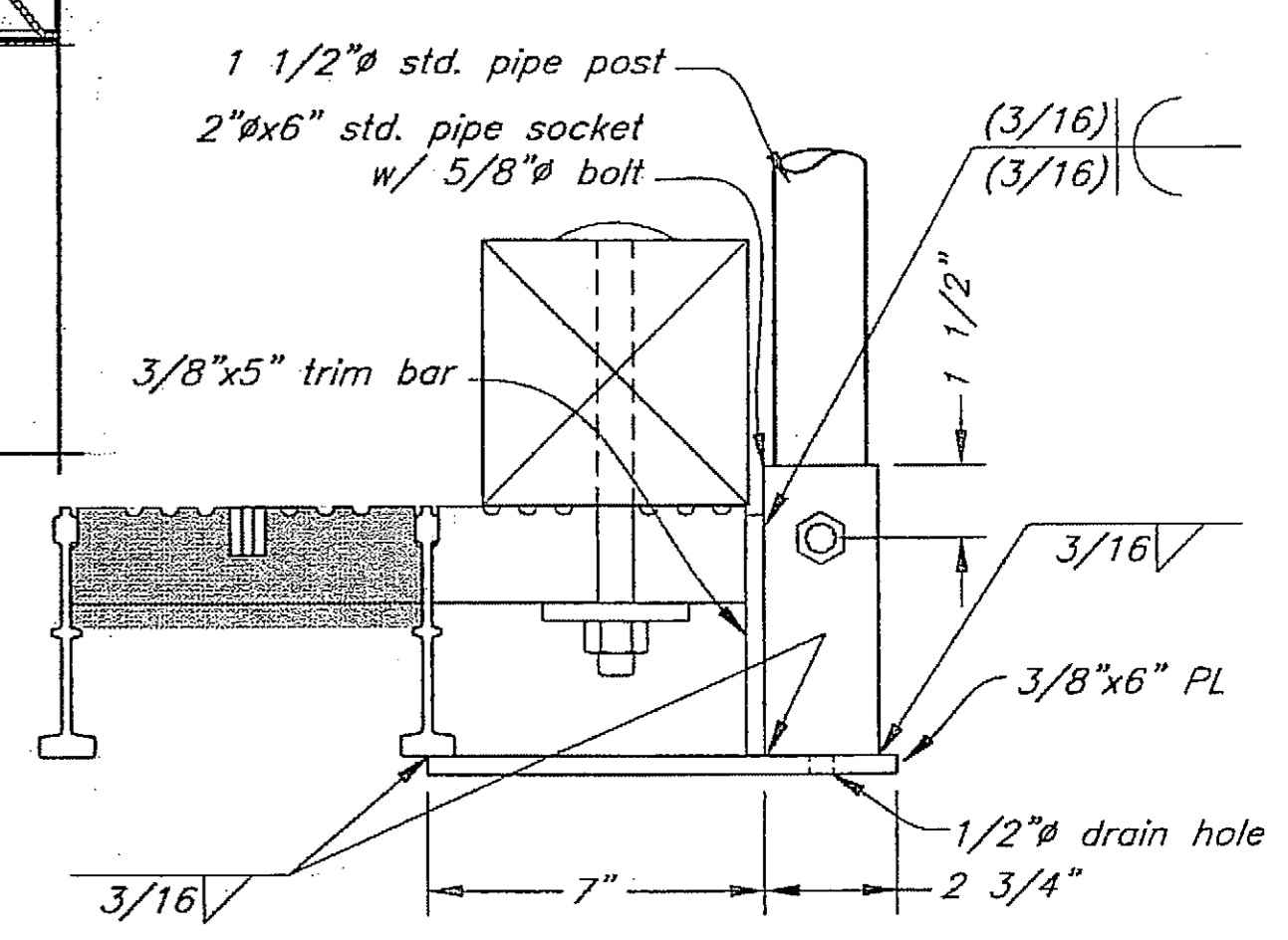


Detail Plan
Gangway Shoreward End 1/20

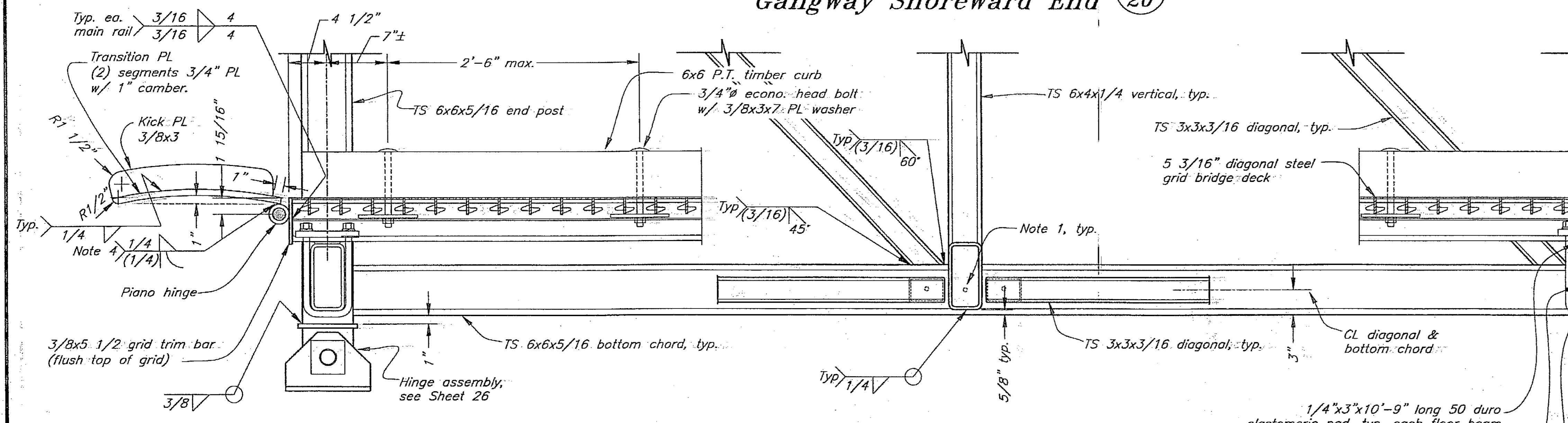
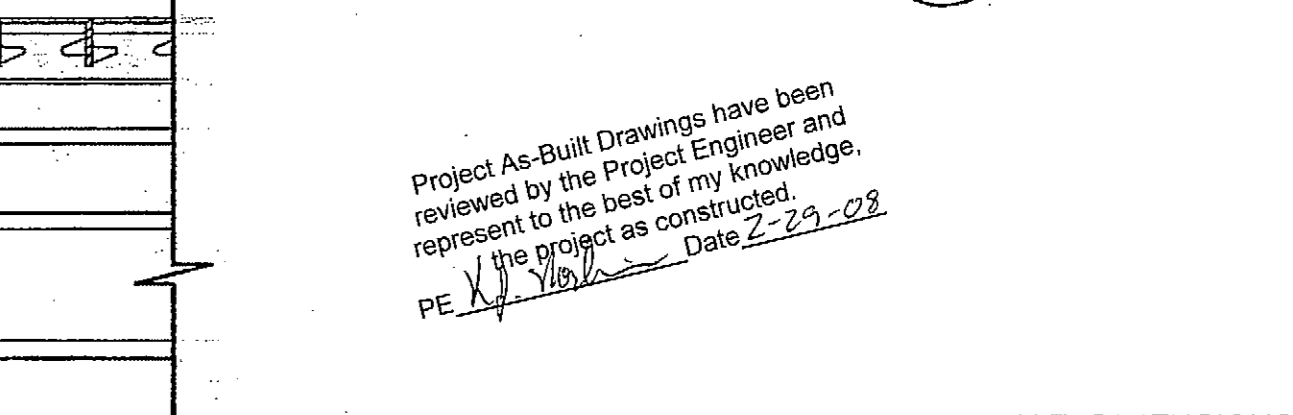
Handrail Detail 3/22
Typ at both ends of gangway.



Splice Detail 4/22



Socket Detail 5/25



Section
Gangway Shoreward End 2/20

- General Notes:
1. Provide 3/8" 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.
 5. Weld alternate hinge segments to floor beam and grid trim bar.

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

DESIGNED BY: T. Doggett

CHECKED BY: J. Beedle

DRAWN BY: T. Doggett/C. Fuman

PATH: Q:\Pow\67497\MF\Planset\23-Gangway Shoreward Details.dwg

PLOT: PSPACE 1=1 Tab: Gangway end details Wed, 26/Jul/06 09:55AM

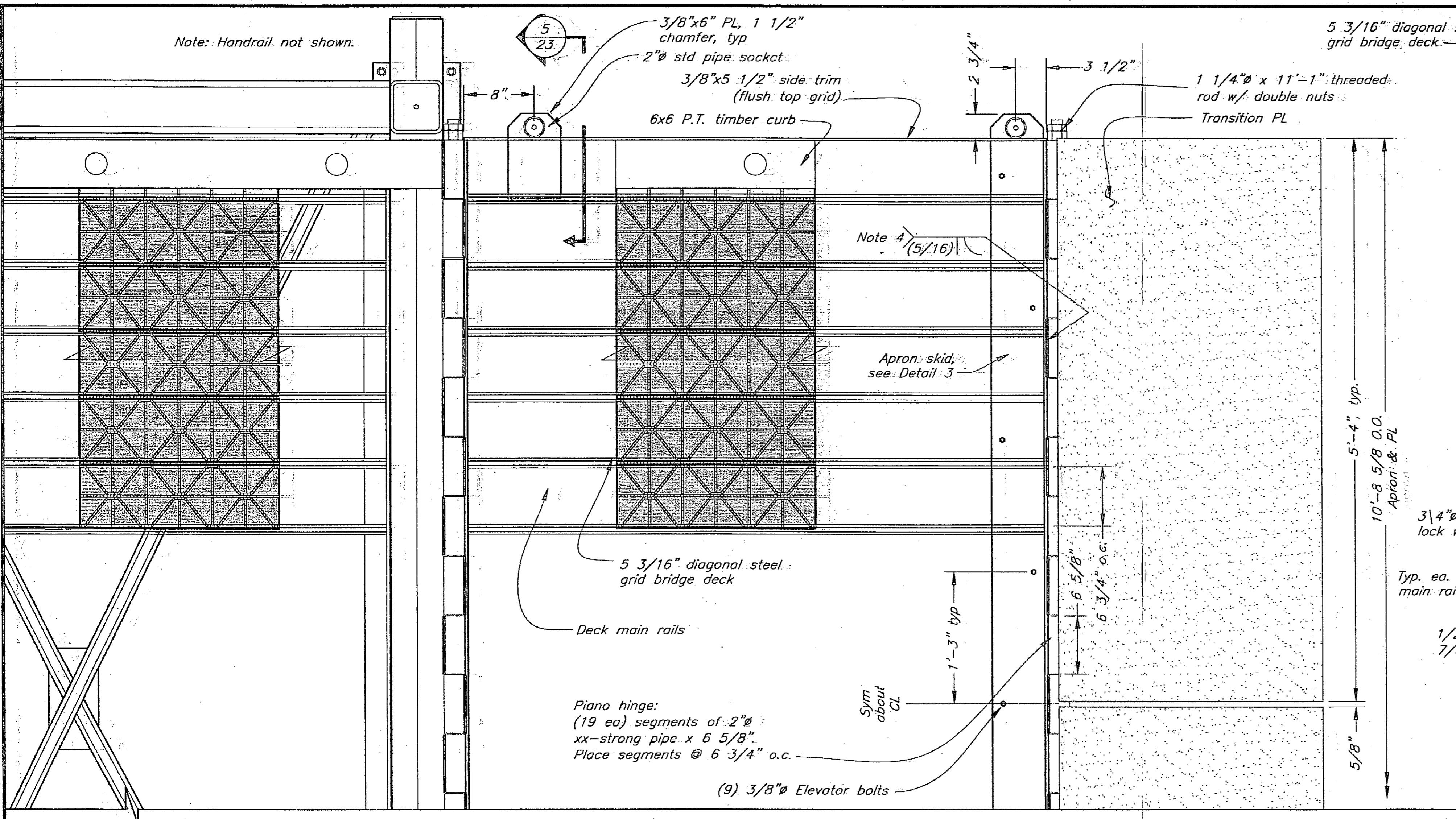
STATE OF ALASKA
49th
Timothy H. Doggett
CE-9027
7-31-06

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

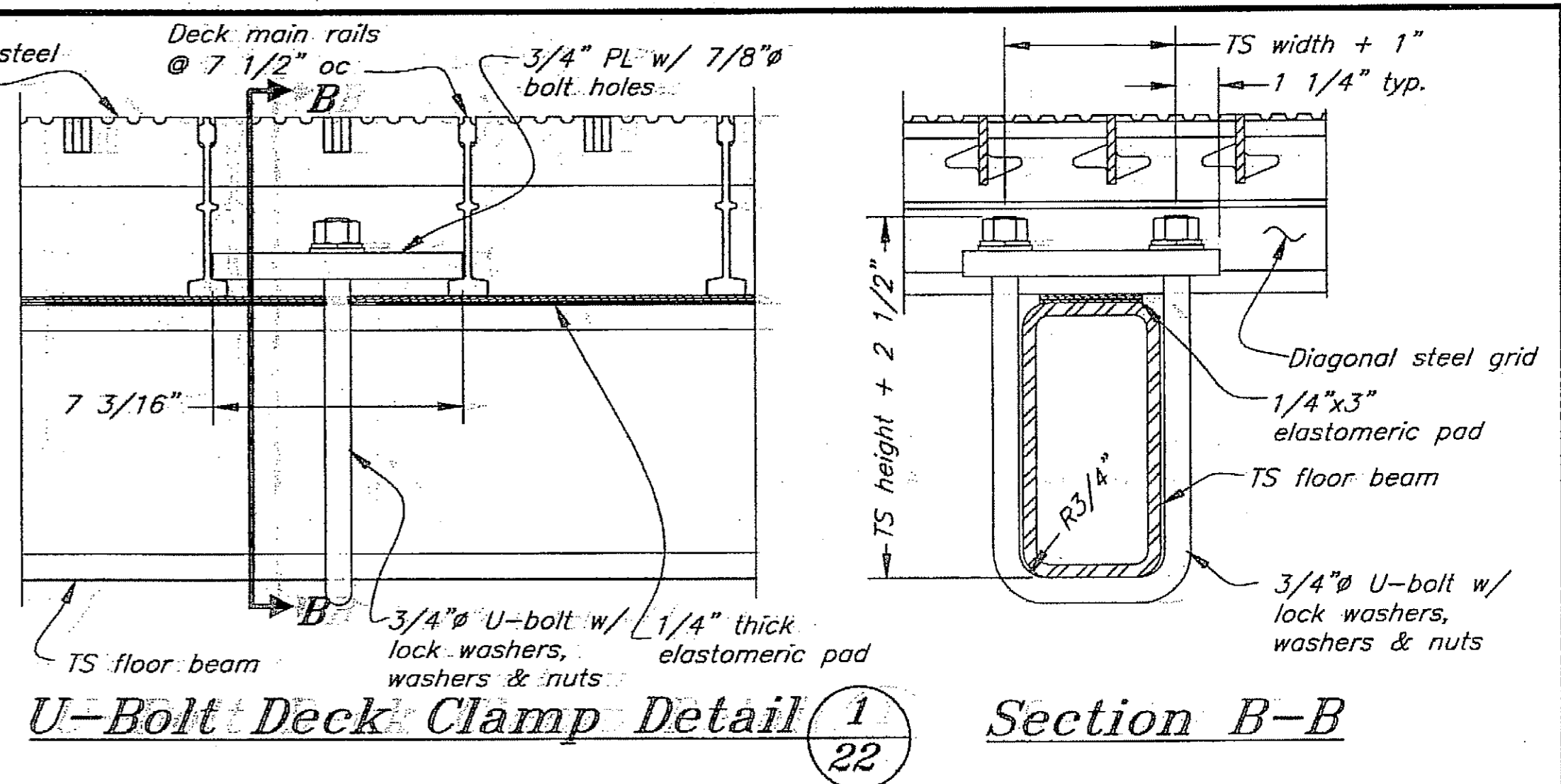
Clark Bay Seaplane Facility
Project 67497

Gangway Shoreward
End Details

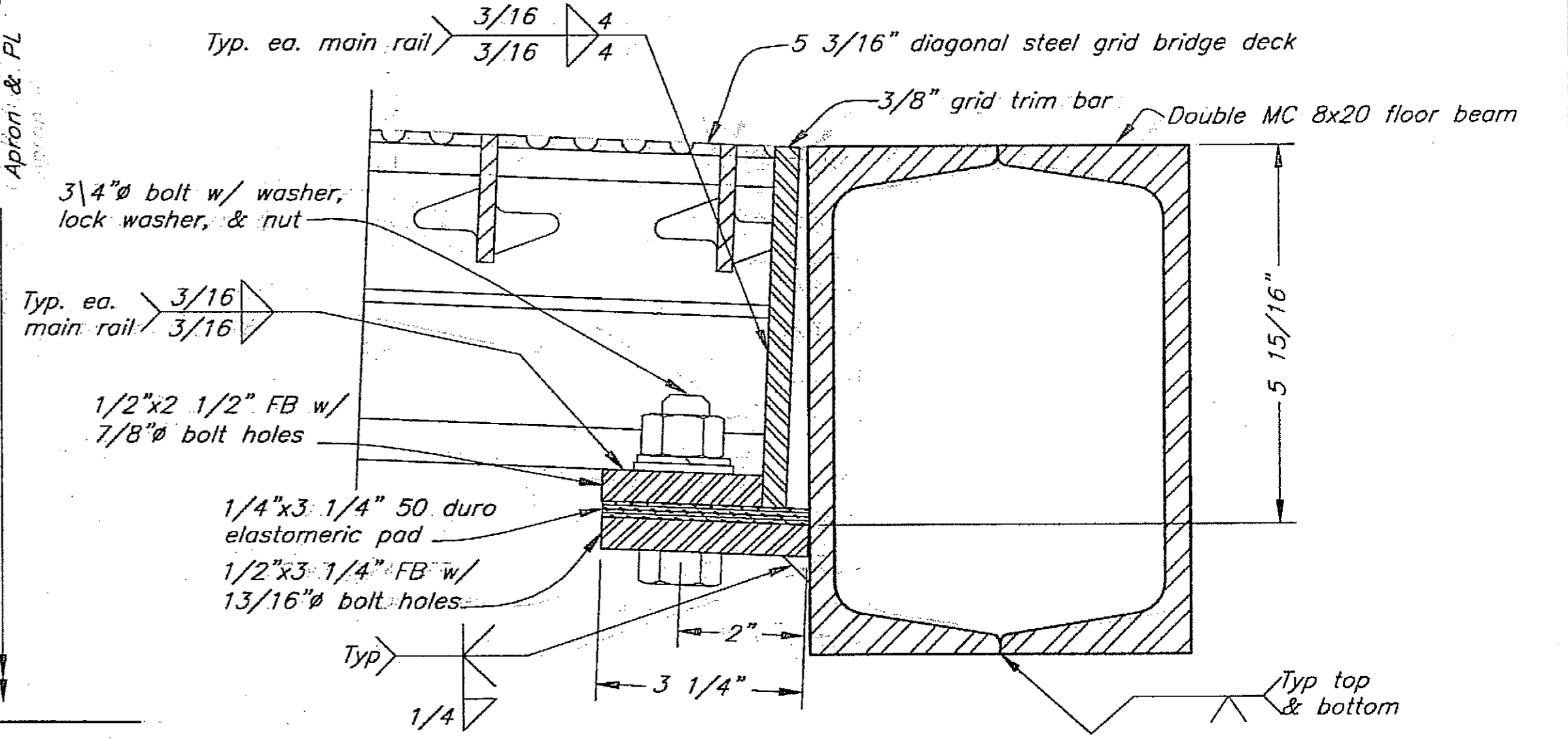
NO.	DATE	REVISIONS DESCRIPTION	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
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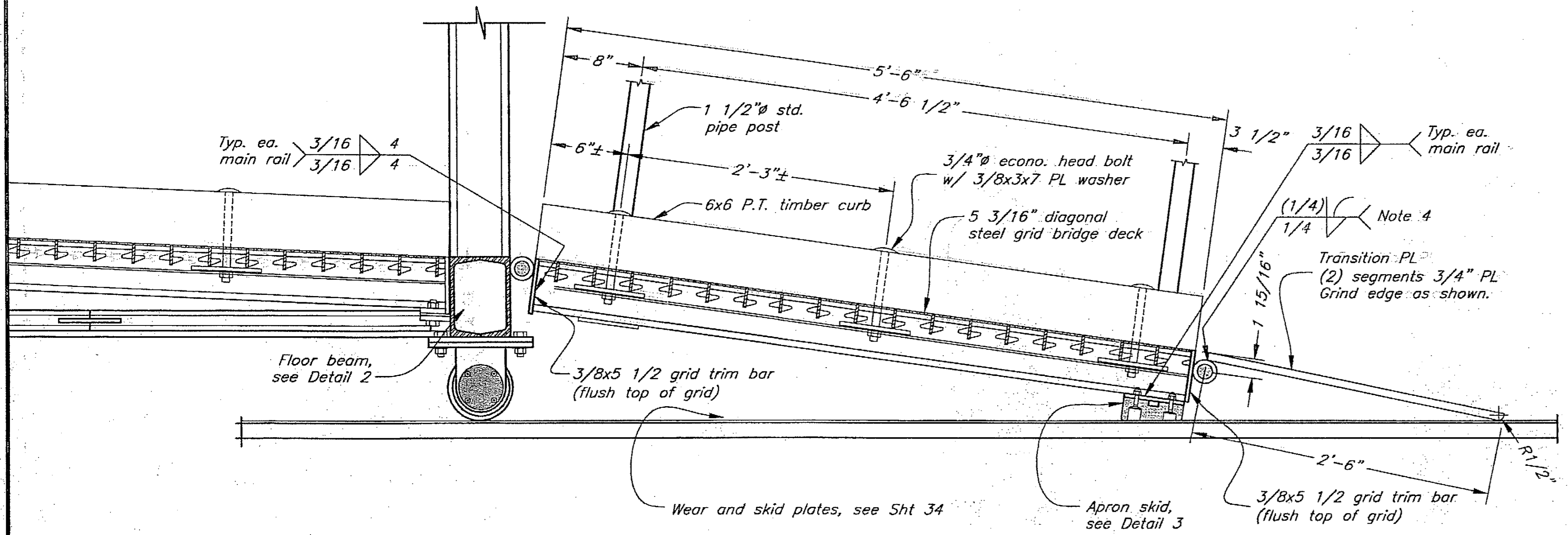
Detail Plan
Gangway Apron & Transition Plate 1/21



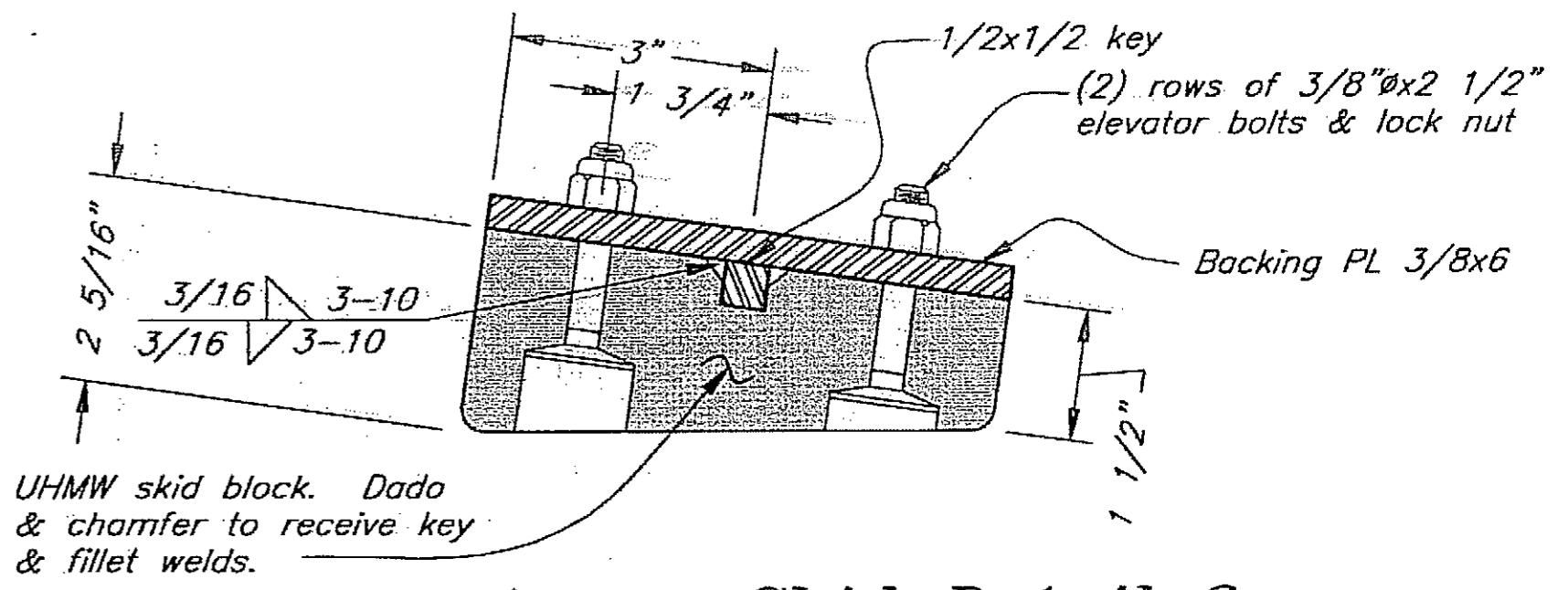
U-Bolt Deck Clamp Detail 1 1/22 **Section B-B**



Seaward End Floor Beam Detail 2



Section
Gangway Apron & Transition Plate 2/21



Apron Skid Detail 3

Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge the project as constructed.
PE *[Signature]* Date 2-21-06

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

DESIGNED BY: T. Doggett

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

**Clark Bay Seaplane Facility
Project 67497**

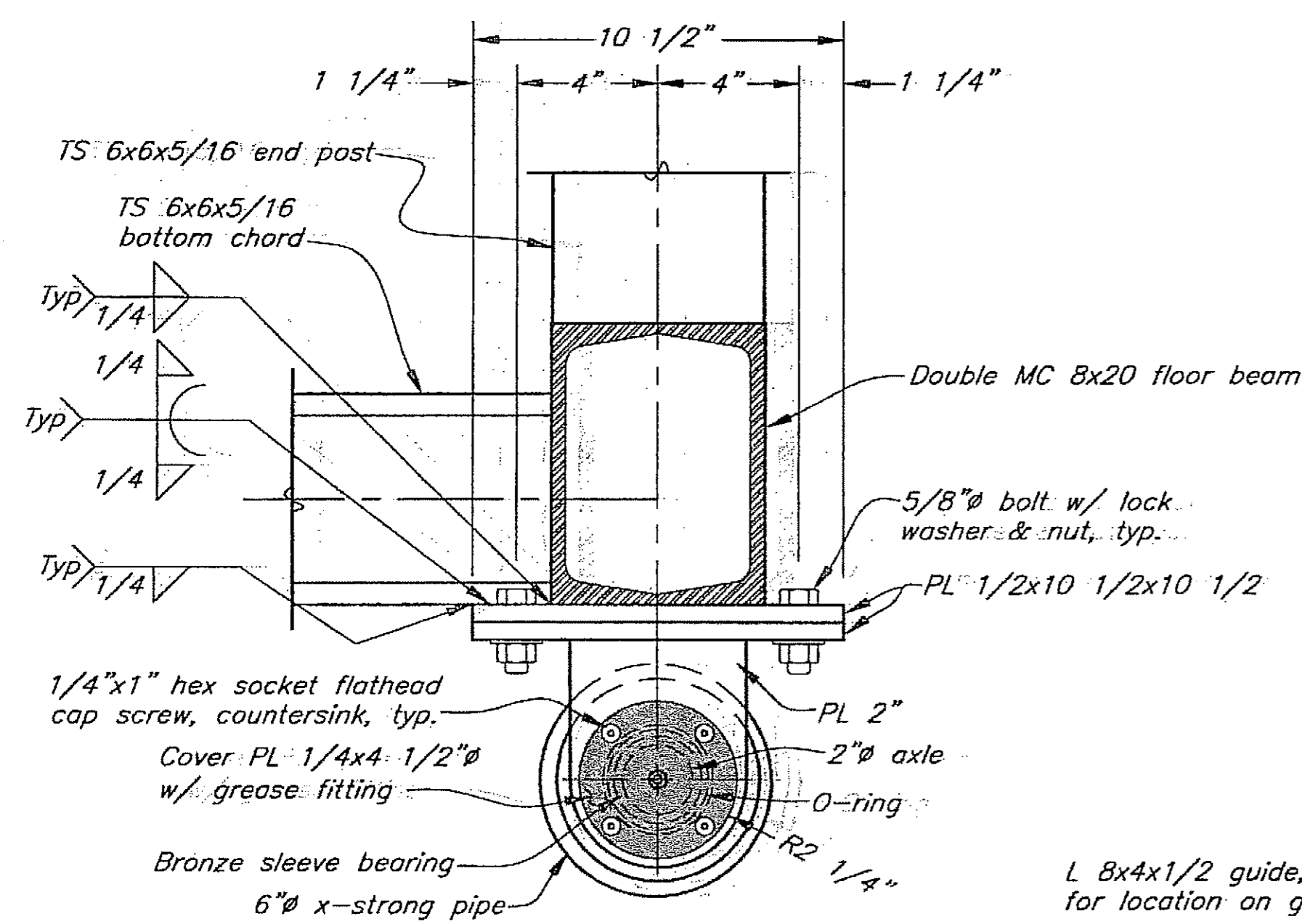
**Gangway Seaward
Apron & Transition Plate**

CHECKED BY: J. Beedle
DRAWN BY: T. Doggett/C. Fuman
PATH: G:\Paw\67497\MF\Plans\25-Gangway Seaward TP.dwg
PLOT: PSPACE: 1=1 Tab: GW Details 3 Mon, 31/Jul/06 10:59AM

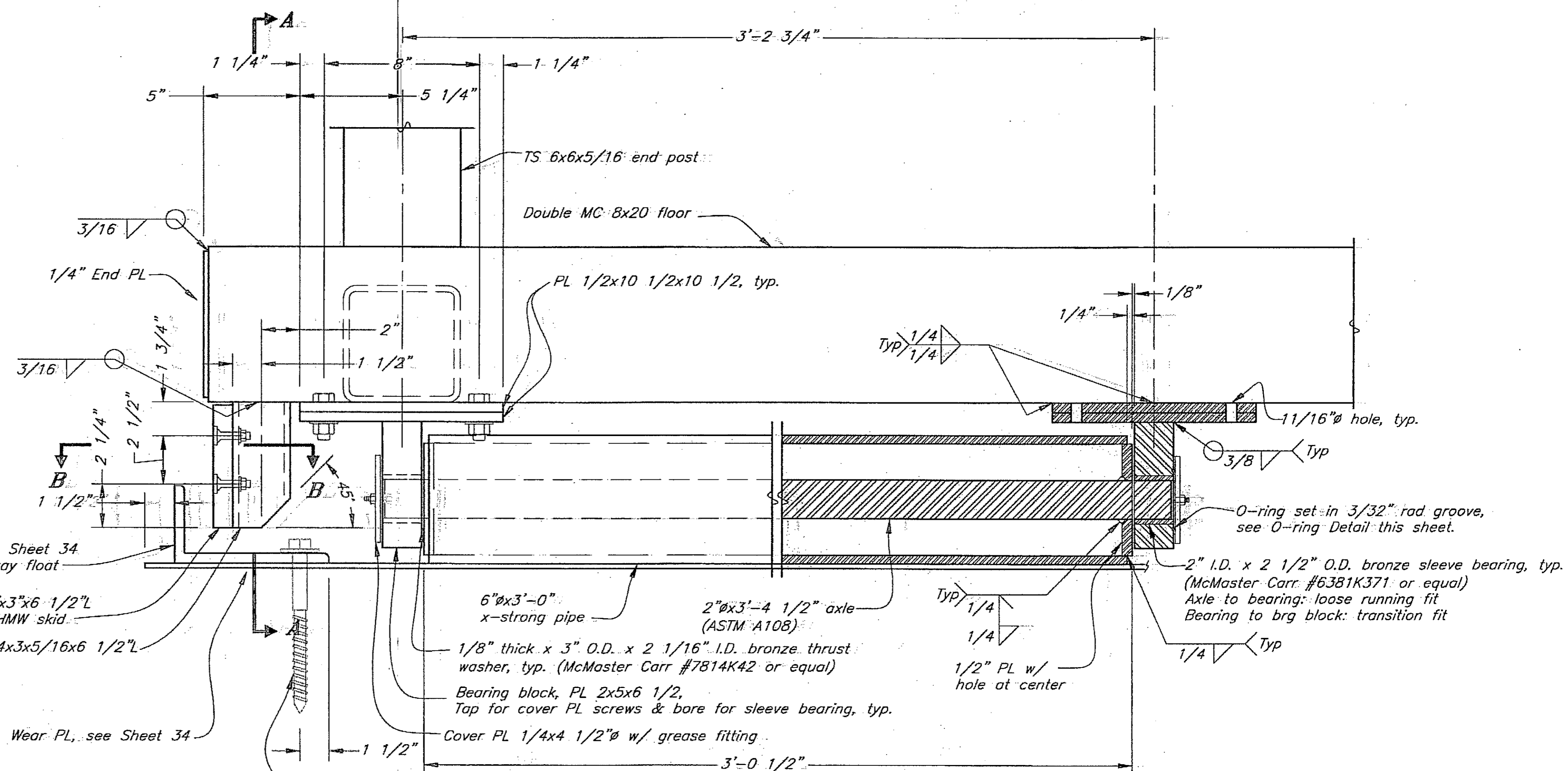
7-31-06

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

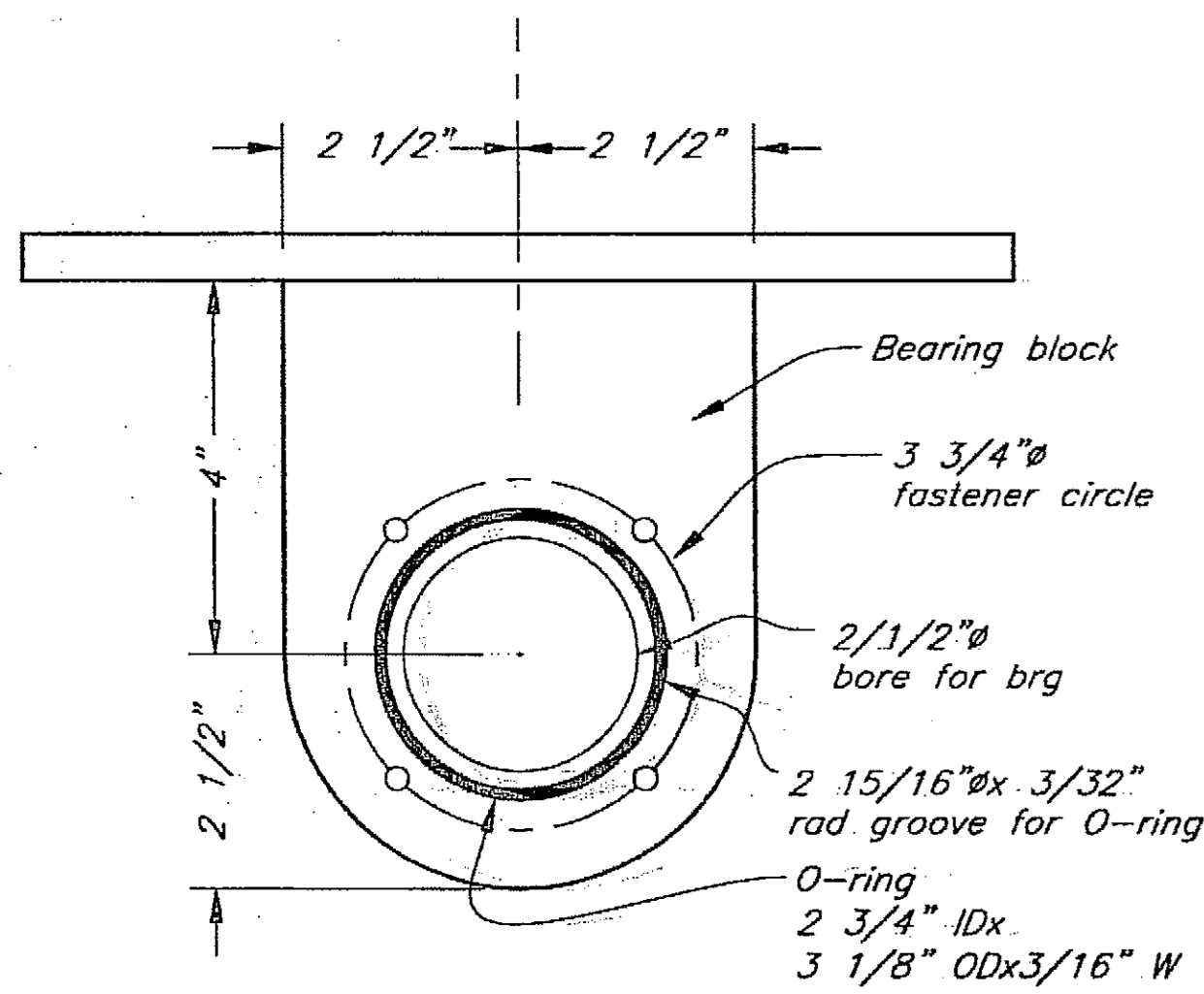
67497 2006 25 43



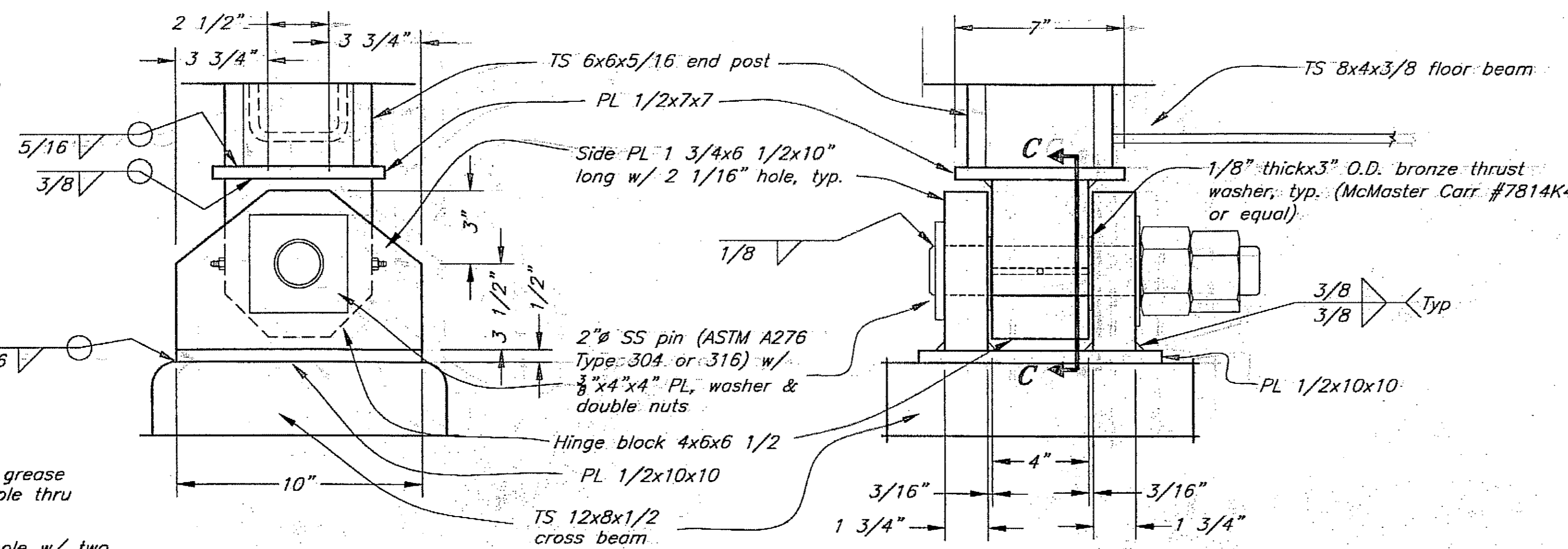
View A-A



Gangway Roller Front Elevation

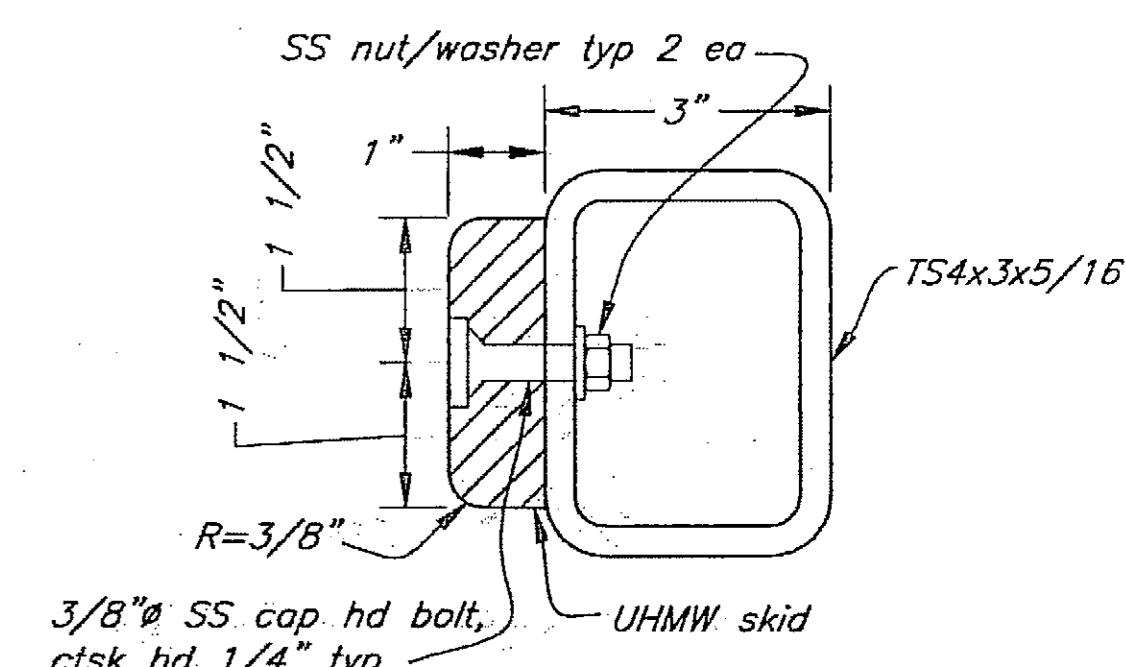


O-Ring Detail

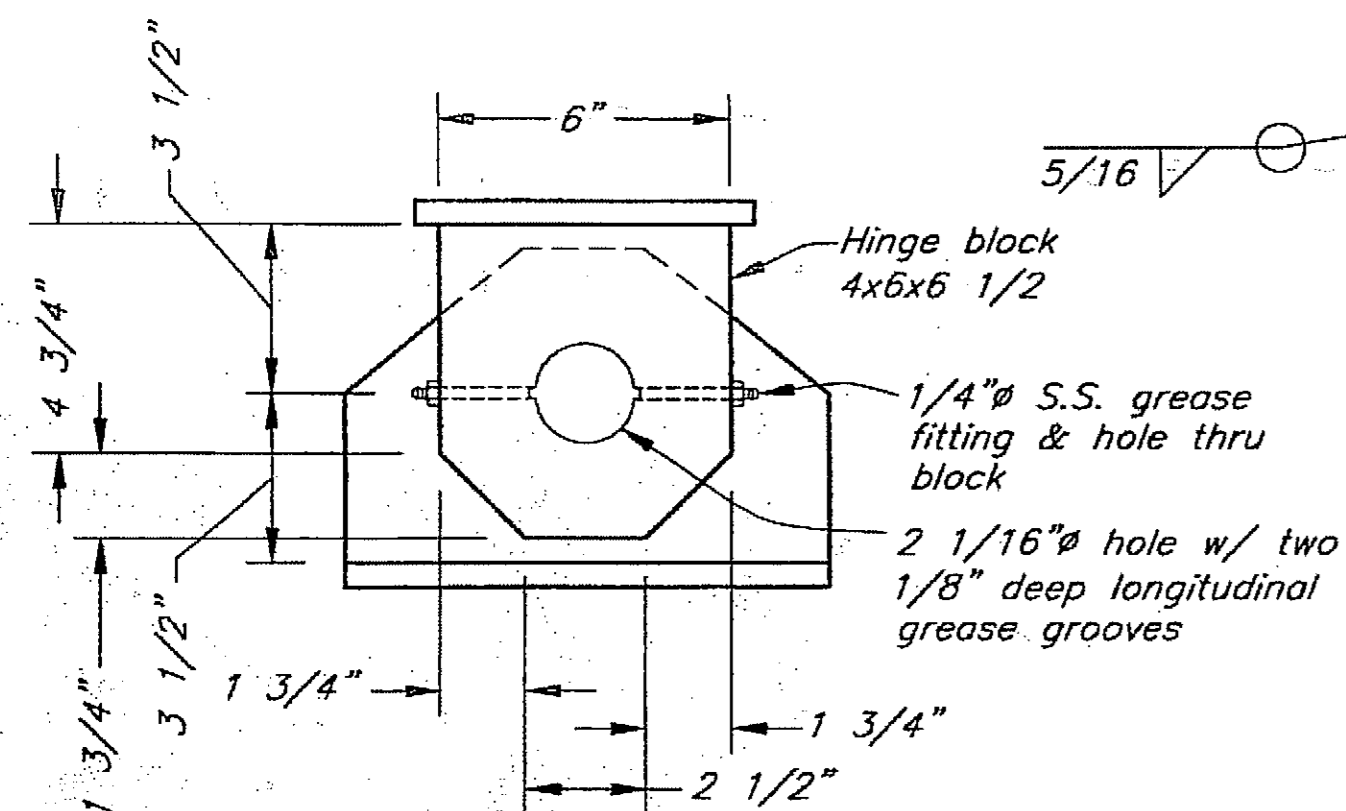


Hinge Assembly Side View

Hinge Assembly Front View



Section B-B

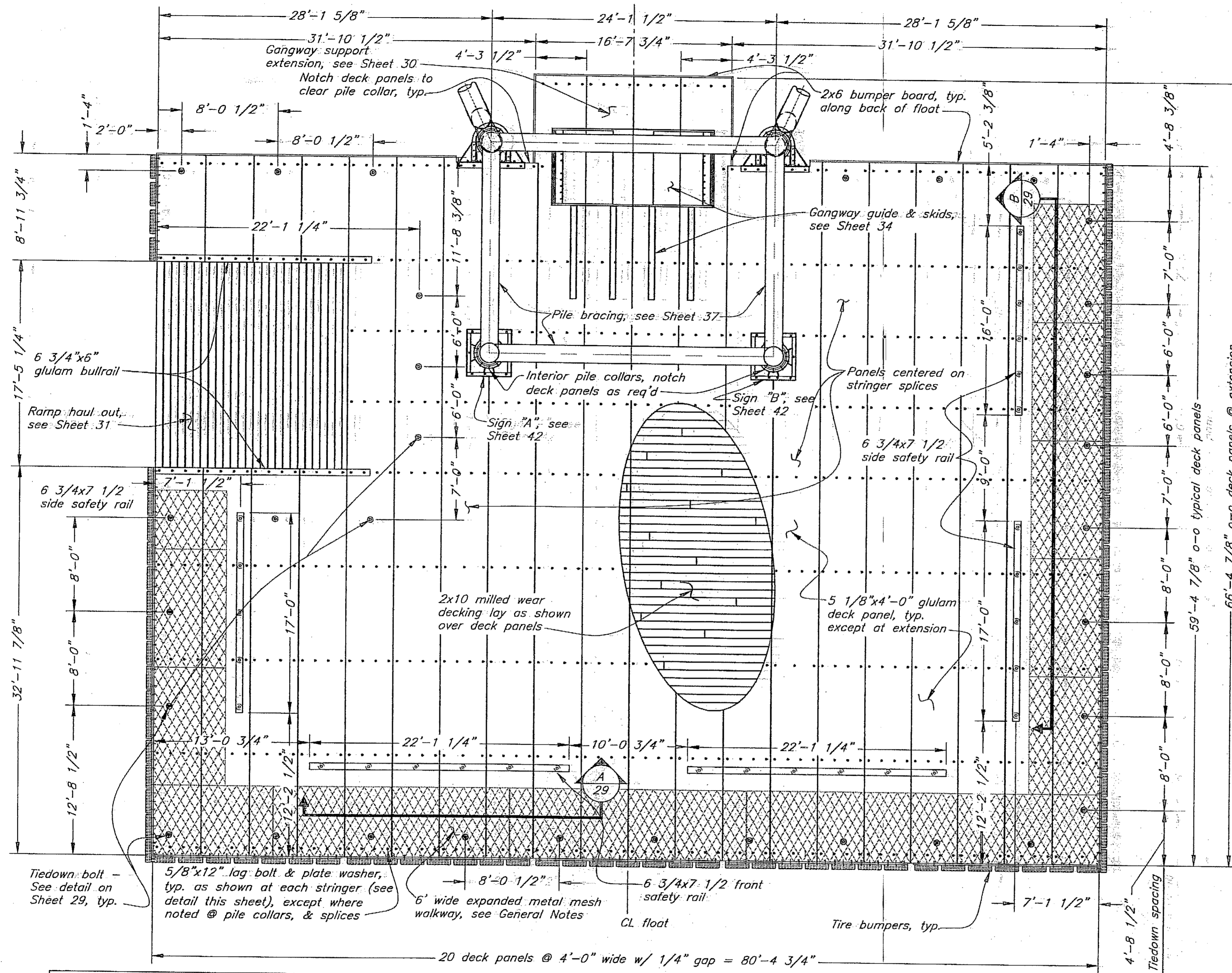


Section C-C

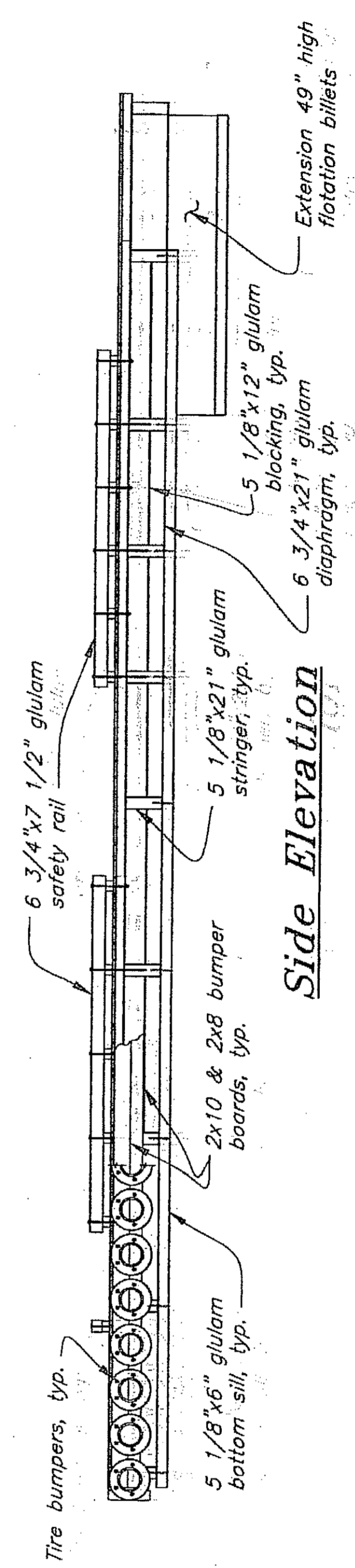
Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge, the project as constructed.
 PE: J. Doggett Date: 2-29-08

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

DESIGNED BY: T. Doggett		STATE OF ALASKA DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES STATEWIDE DESIGN & ENGINEERING SERVICES DIVISION			
		Clark Bay Seaplane Facility Project 67497			
		Gangway Shoreward Hinge & Seaward Roller Details			
CHECKED BY: J. Beedle		PROJECT DESIGNATION: 67497			
DRAWN BY: T. Doggett/C. Fumon		YEAR: 2006			
PATH: O:\Pow\67497\MF\Planset\26-Gangway Roller.dwg		SHEET NO.: 26			
PLOT: PSPACE 1=1 Tab: Layout1		TOTAL SHEETS: 43			
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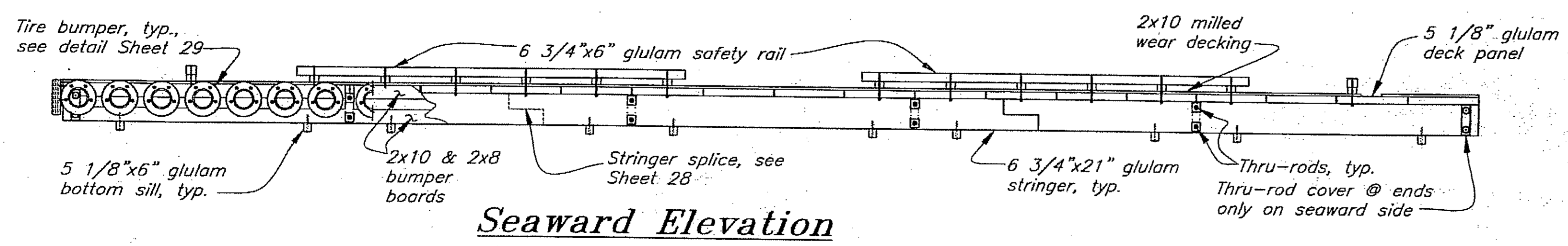
Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge, the project as constructed.
 PE: *[Signature]* Date: 2-29-08



Side Elevation

Design Freeboard = 17 1/2"

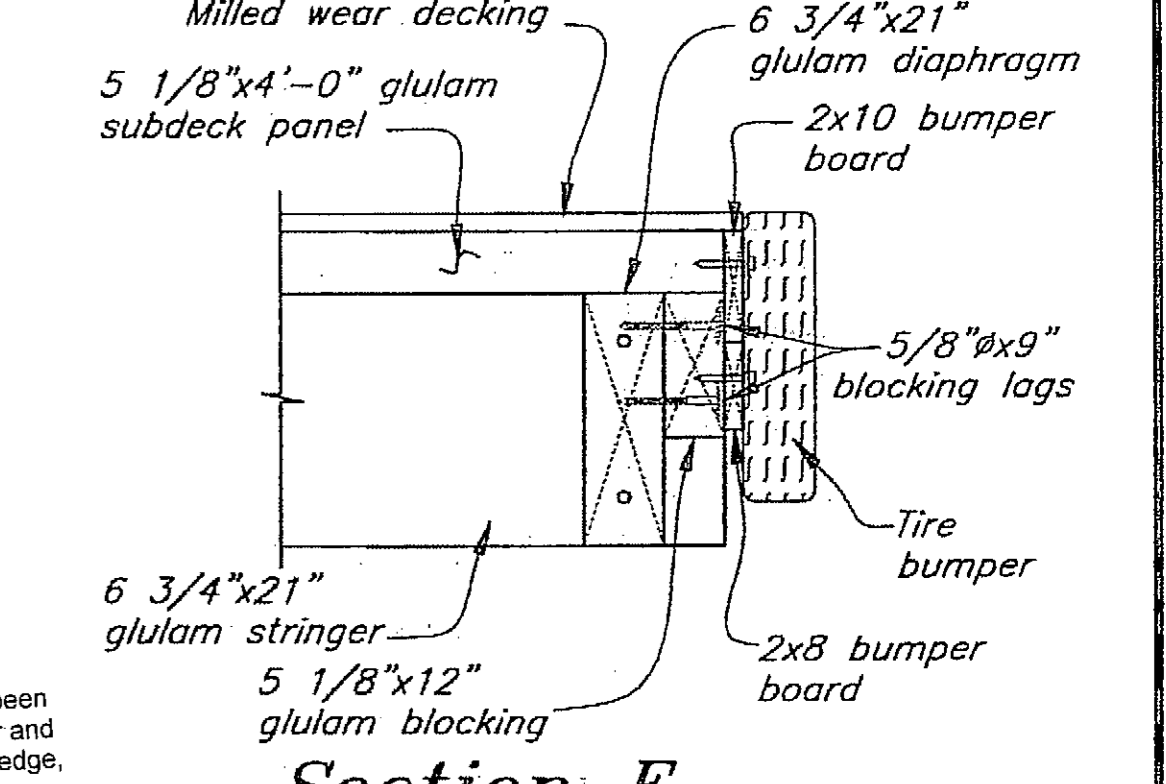
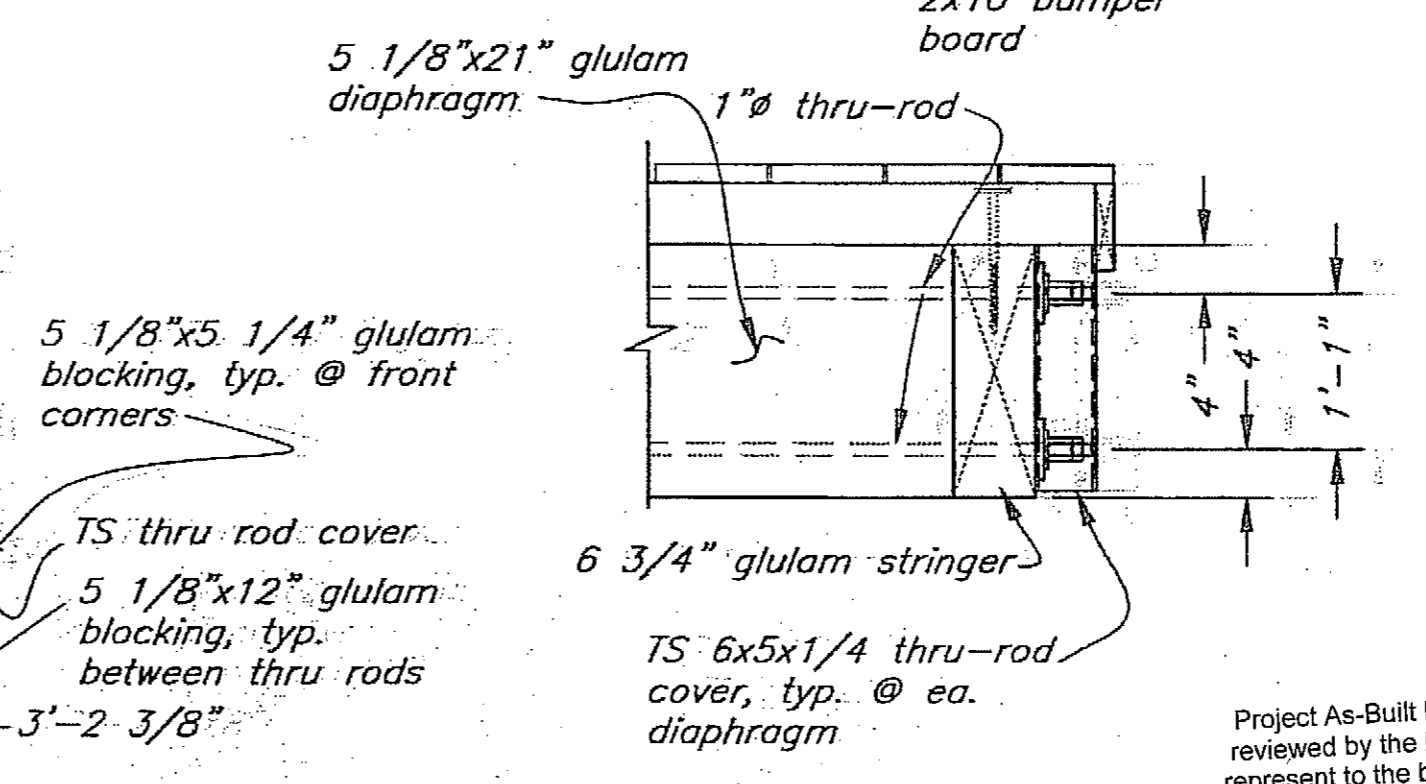
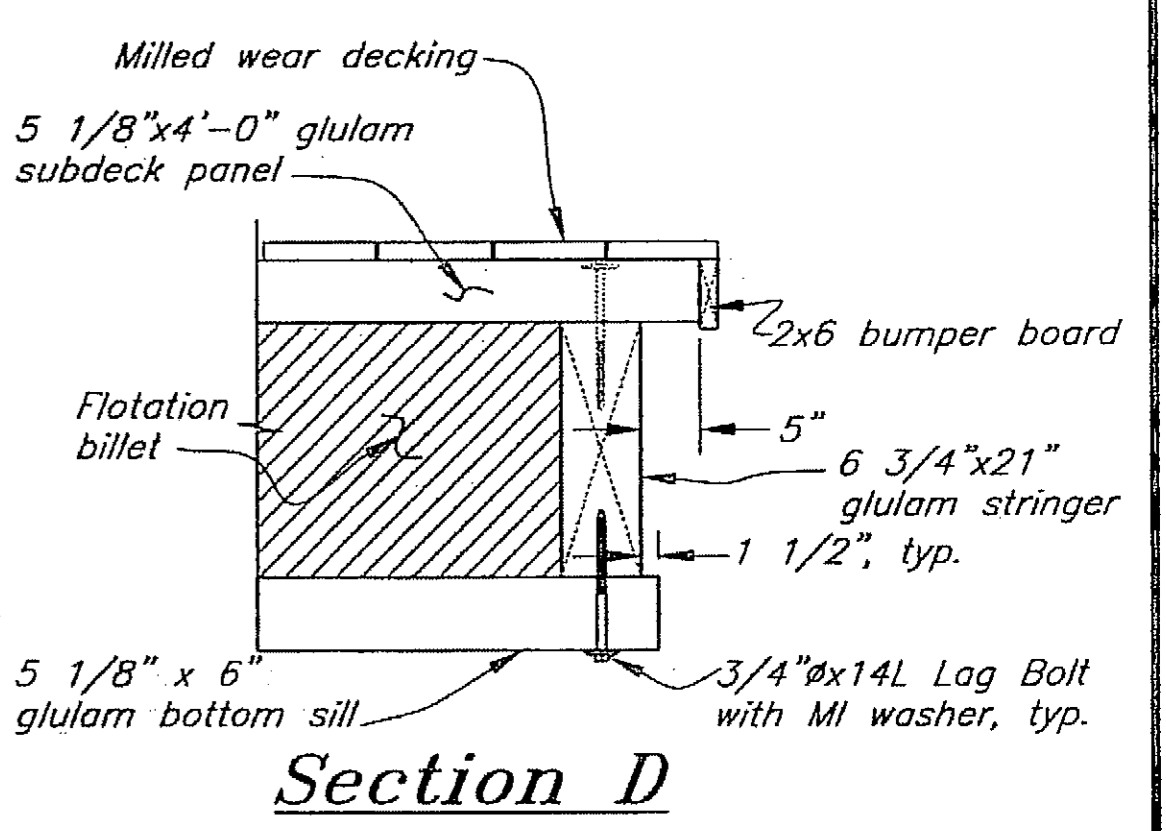
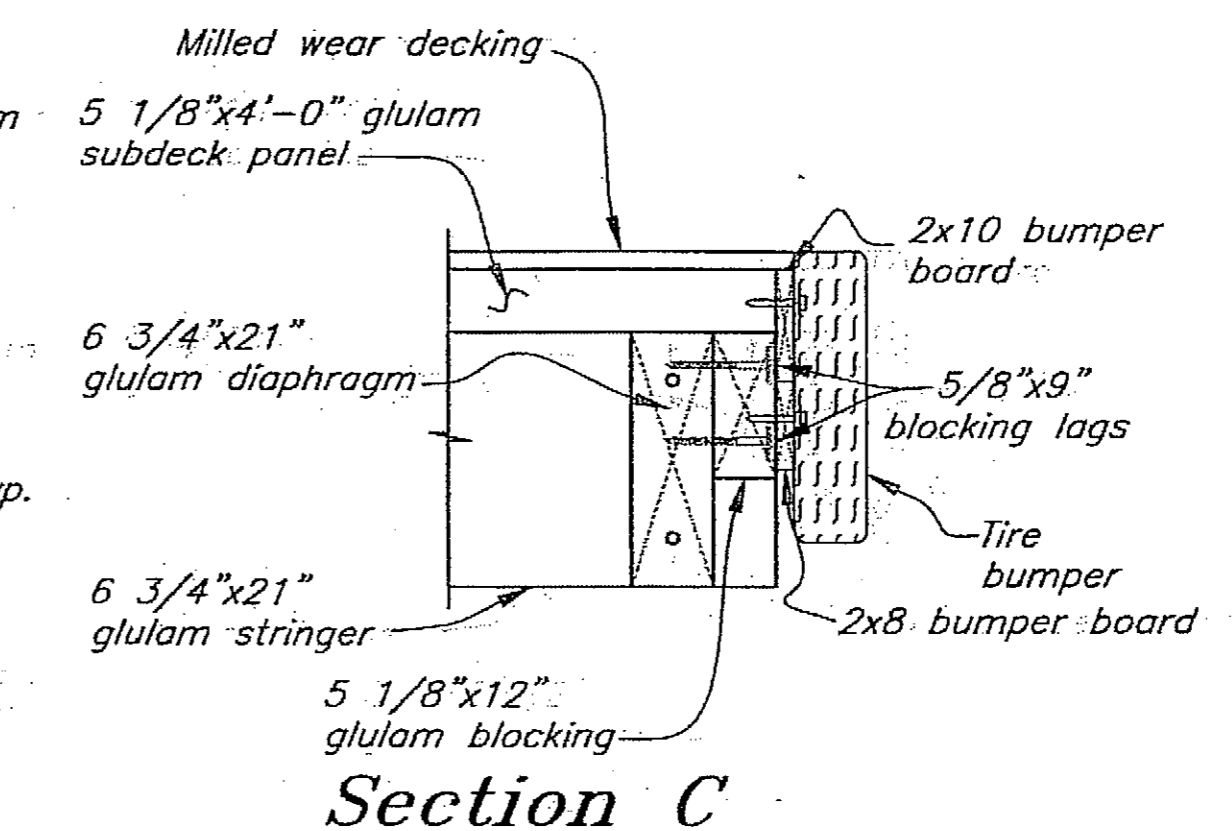
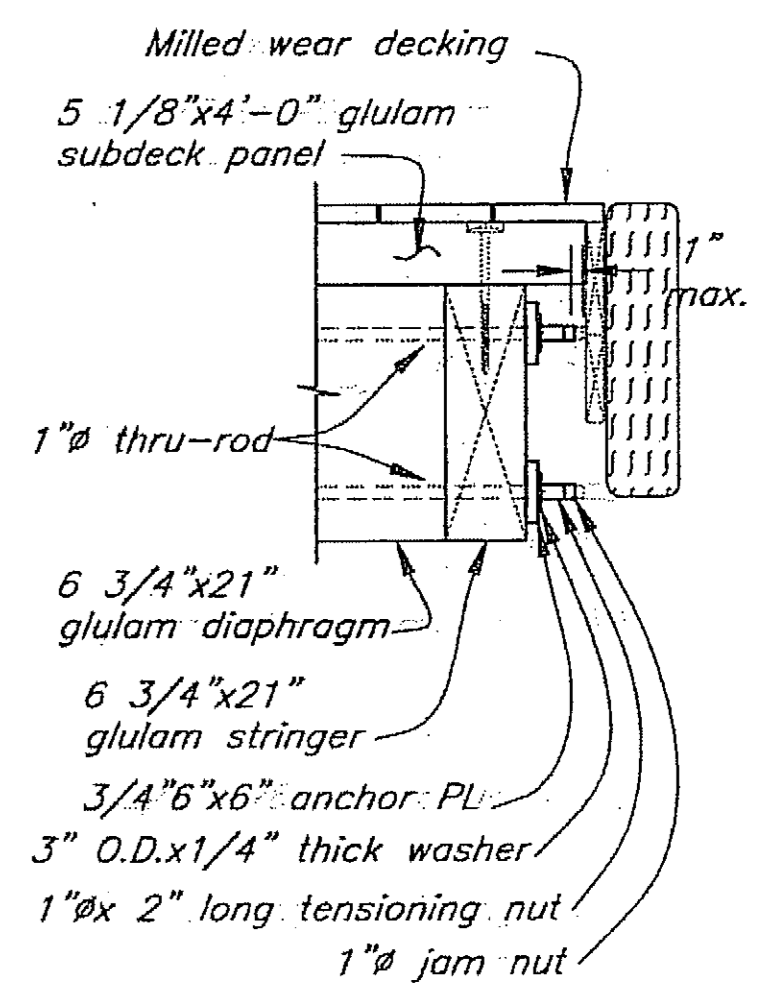
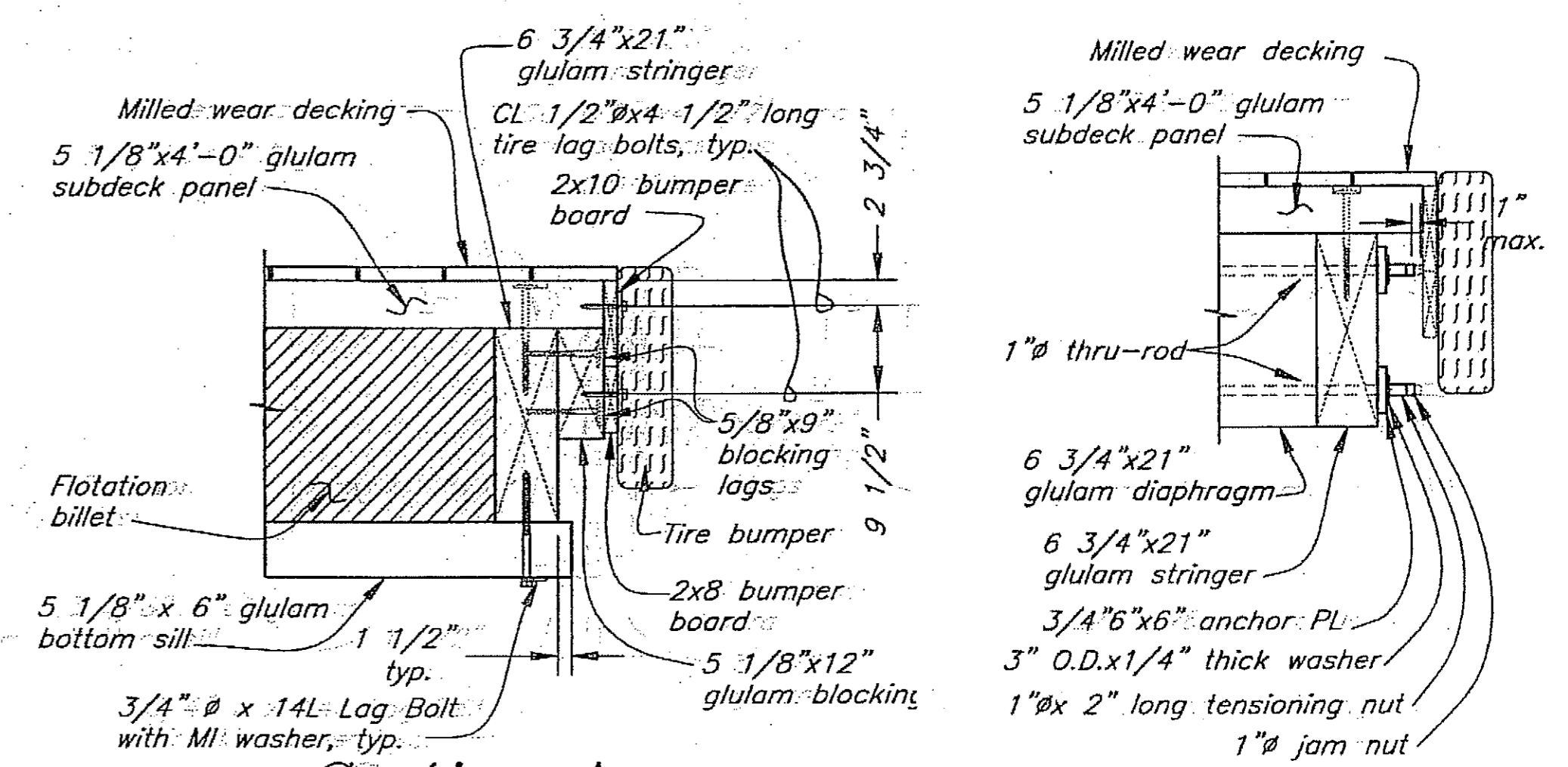
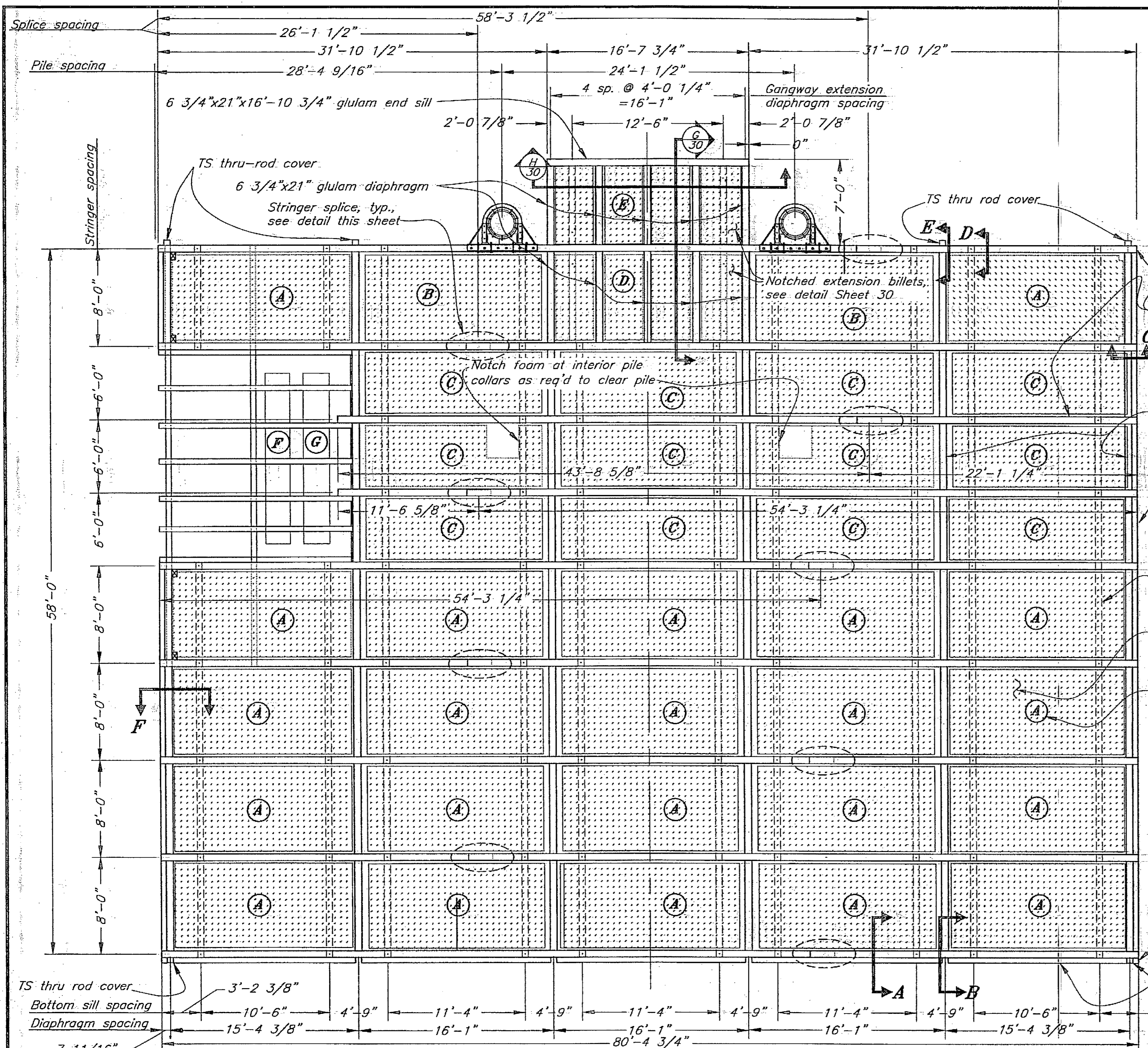
Main Float Plan



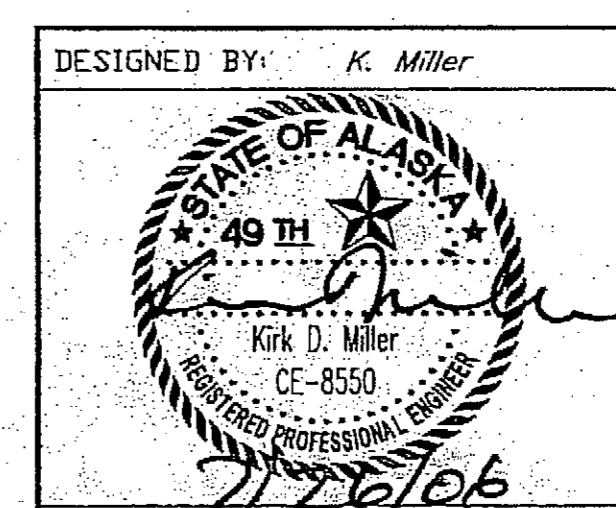
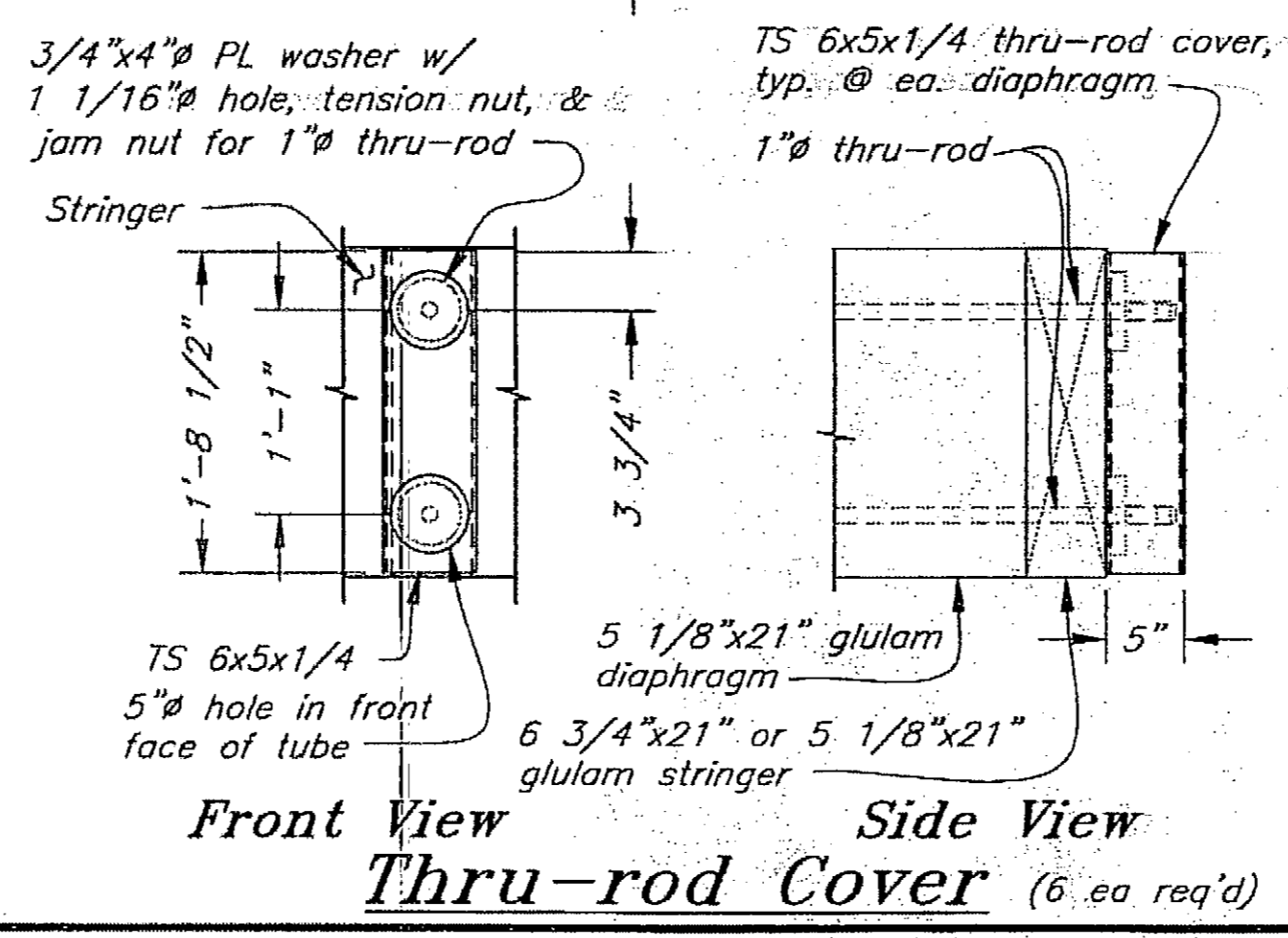
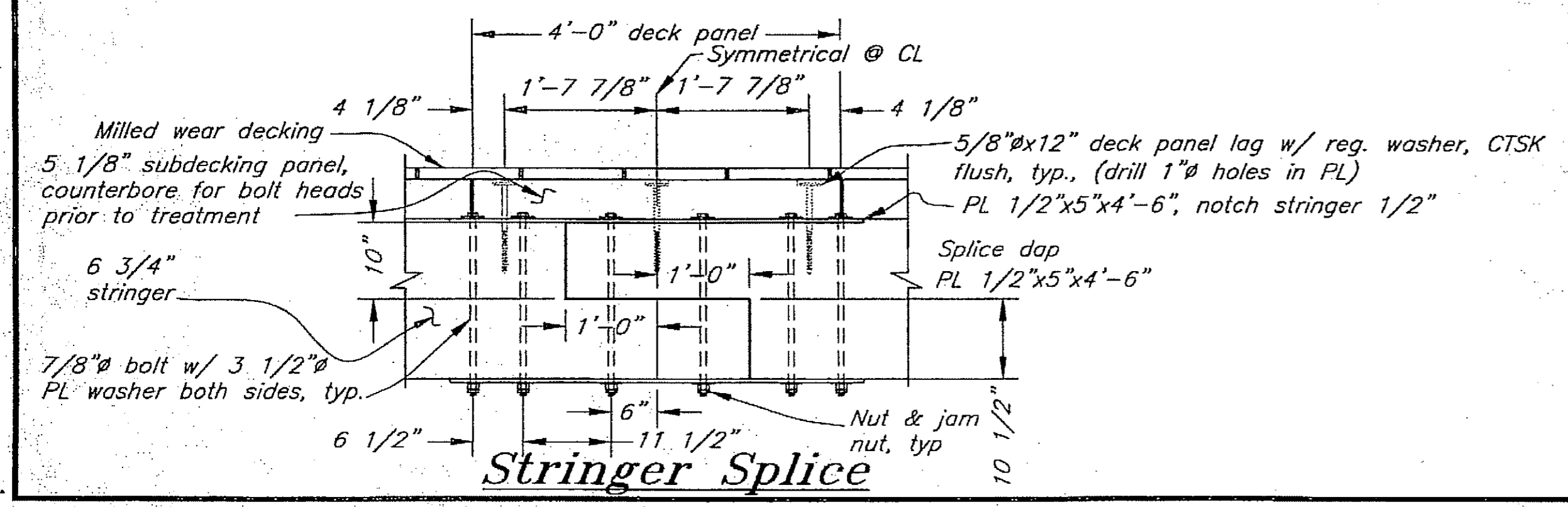
Seaward Elevation

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

DESIGNED BY: K. Miller		STATE OF ALASKA DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES STATEWIDE DESIGN & ENGINEERING SERVICES DIVISION			
		Clark Bay Seaplane Facility Project 67497			
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CHECKED BY: J. Beedle		PATH: Q:\Paw\67497\MF\Planset\27-Main Float Deck Layout.dwg			
DRAWN BY: C. Fuman		PLOT: PSPACE 1=1 Tab: Deck Layout Wed, 26/Jul/06 09:56AM			
REVISIONS		PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
		67497	2006	27	43



Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge, the project as constructed.
 PE: [Signature] Date: 2-29-08



DESIGNED BY: K. Miller
 CHECKED BY: J. Beedle
 DRAWN BY: C. Fuman
 PATH: Q:\Pow\67497\MF\PlanSet\28-Main Float Framing.dwg
 PLOT: PSPACE 1=1 Tab: Main Framing
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REVISIONS		PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
NO.	DATE				

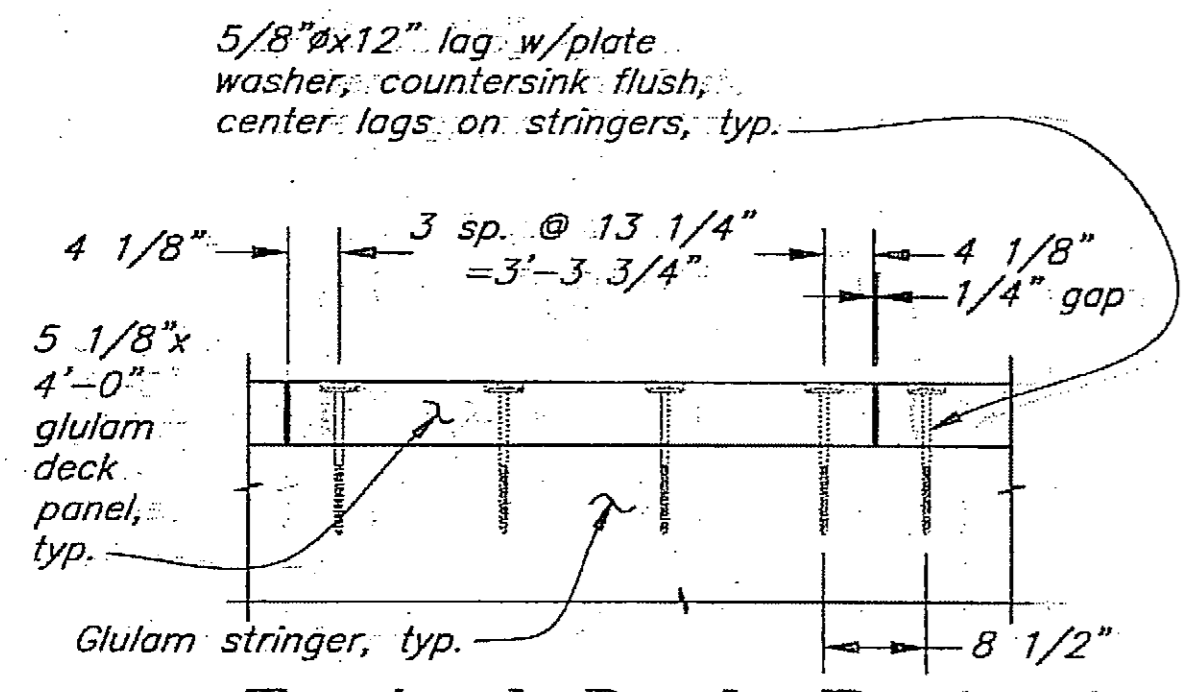
DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

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

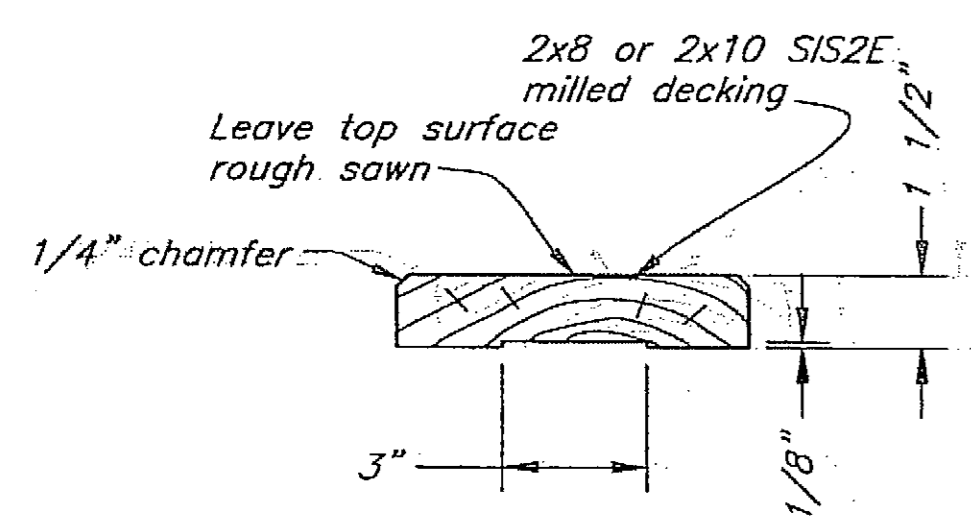
Clark Bay Seaplane Facility
 Project 67497

Float Framing Plan & Details

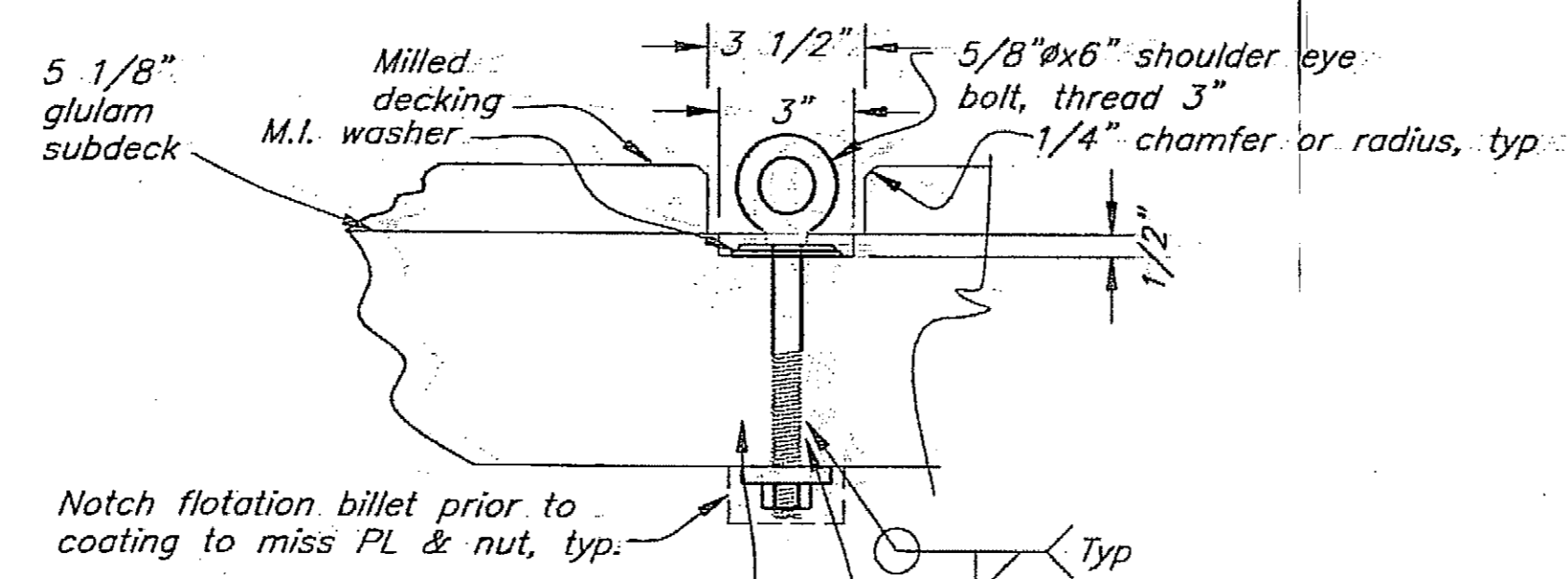
67497 2006 28 43



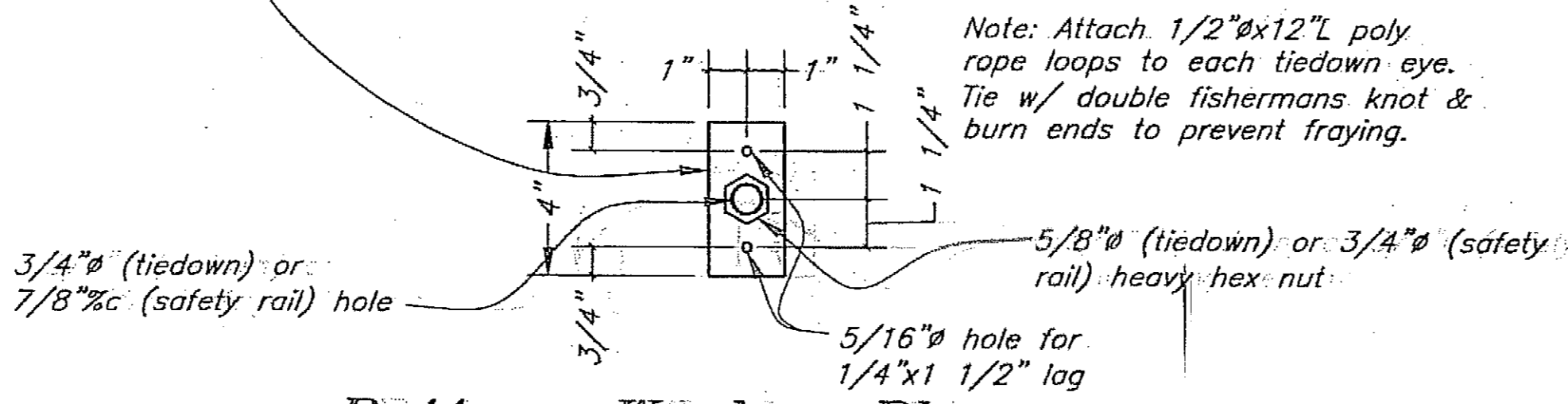
Typical Deck Fastening
(except where noted)



Milled Decking

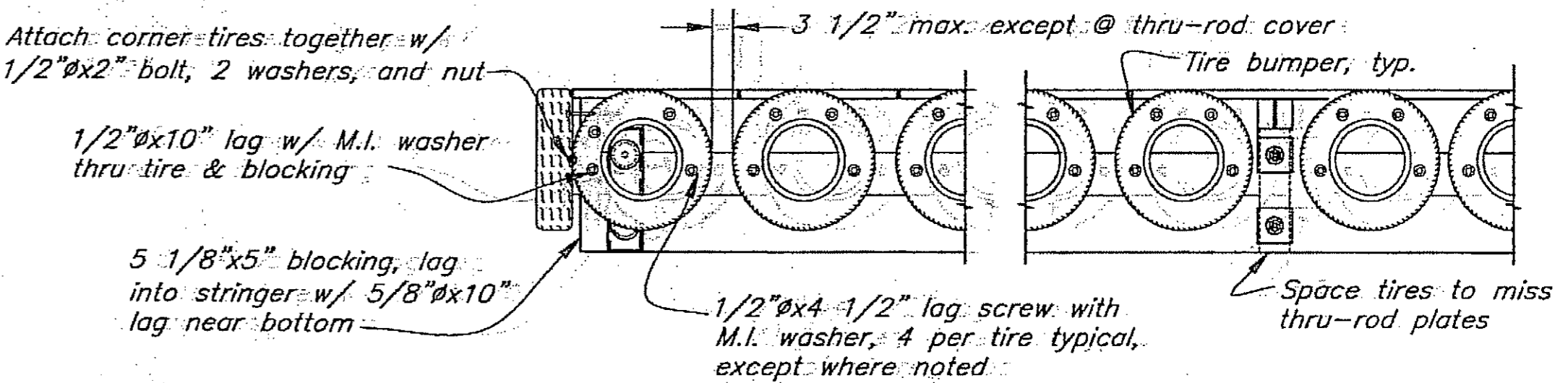


Tiedown Elevation



Bottom Washer Plan

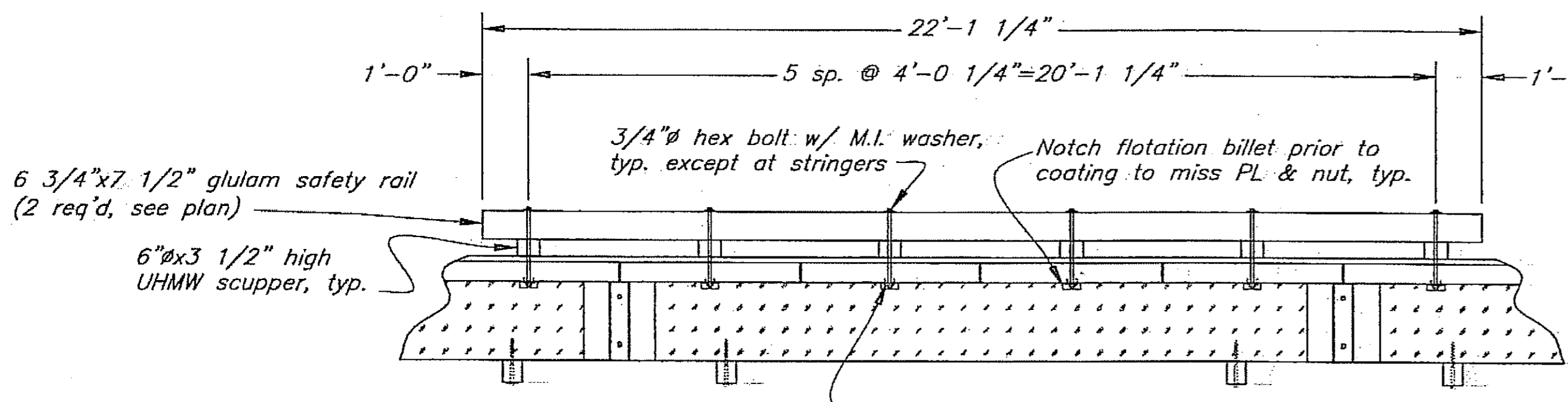
Note: Provide 2" hole through outside face of tire to facilitate lag bolt installation.



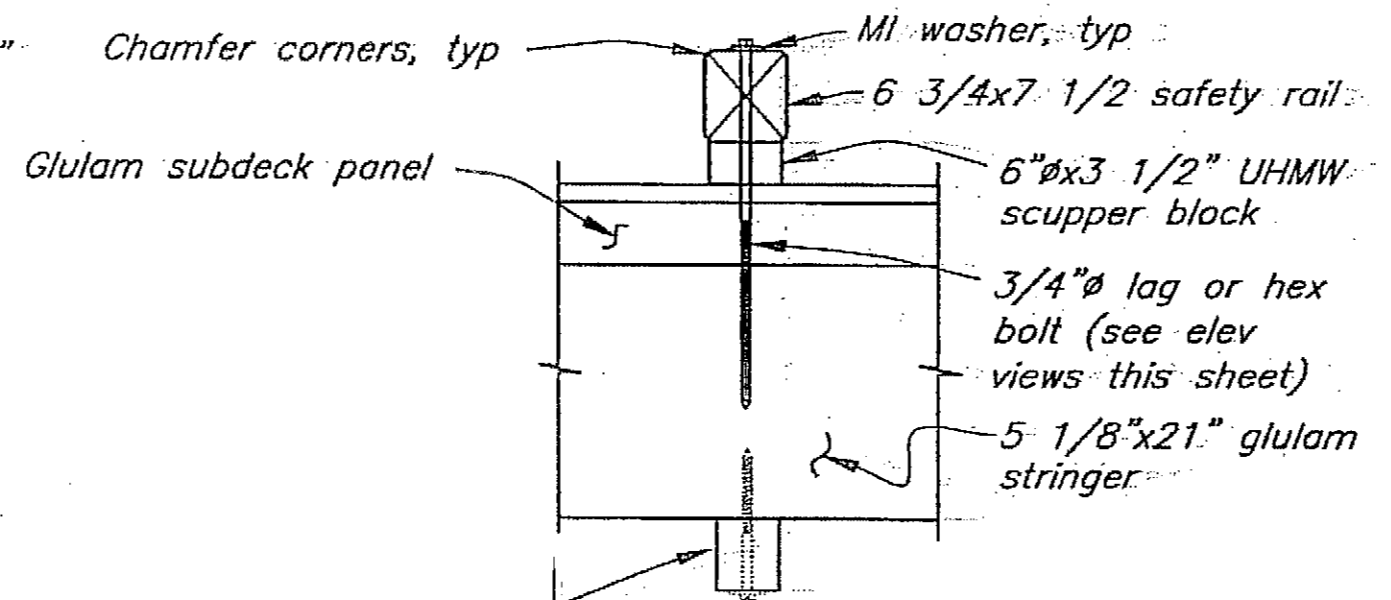
Tire Bumper Detail

Flotation Billets

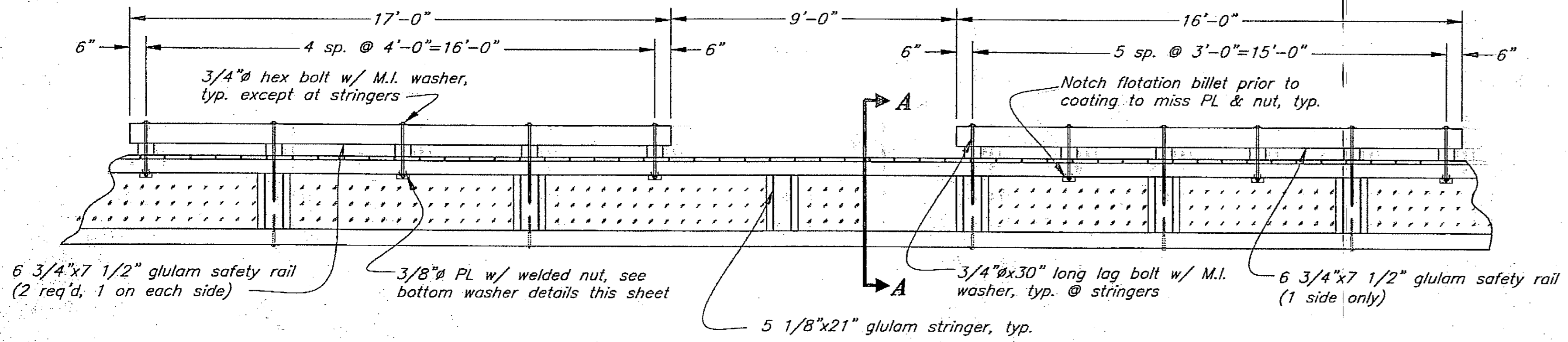
- (A) 7'-0" Wx14'-6" Lx21" D
- (B) 7'-0" Wx14'-6" Lx23" D, notched
- (C) 5'-0" Wx14'-6" Lx21" D (Note: 2 have cutouts for piles)
- (D) 7'-0" Wx16'-8" Lx49" H (Special billet, see details Sht. 30)
- (E) 6'-4" Wx16'-8" Lx49" H (Special billet, see details Sht. 30)
- (F) 14'-0" Lx24" Wx10" D
- (G) 14'-0" Lx26" Wx14" D, notched (4" Hx6" W) on top for ramp stringers



Front Safety Rail Section (A) 27



Section A-A

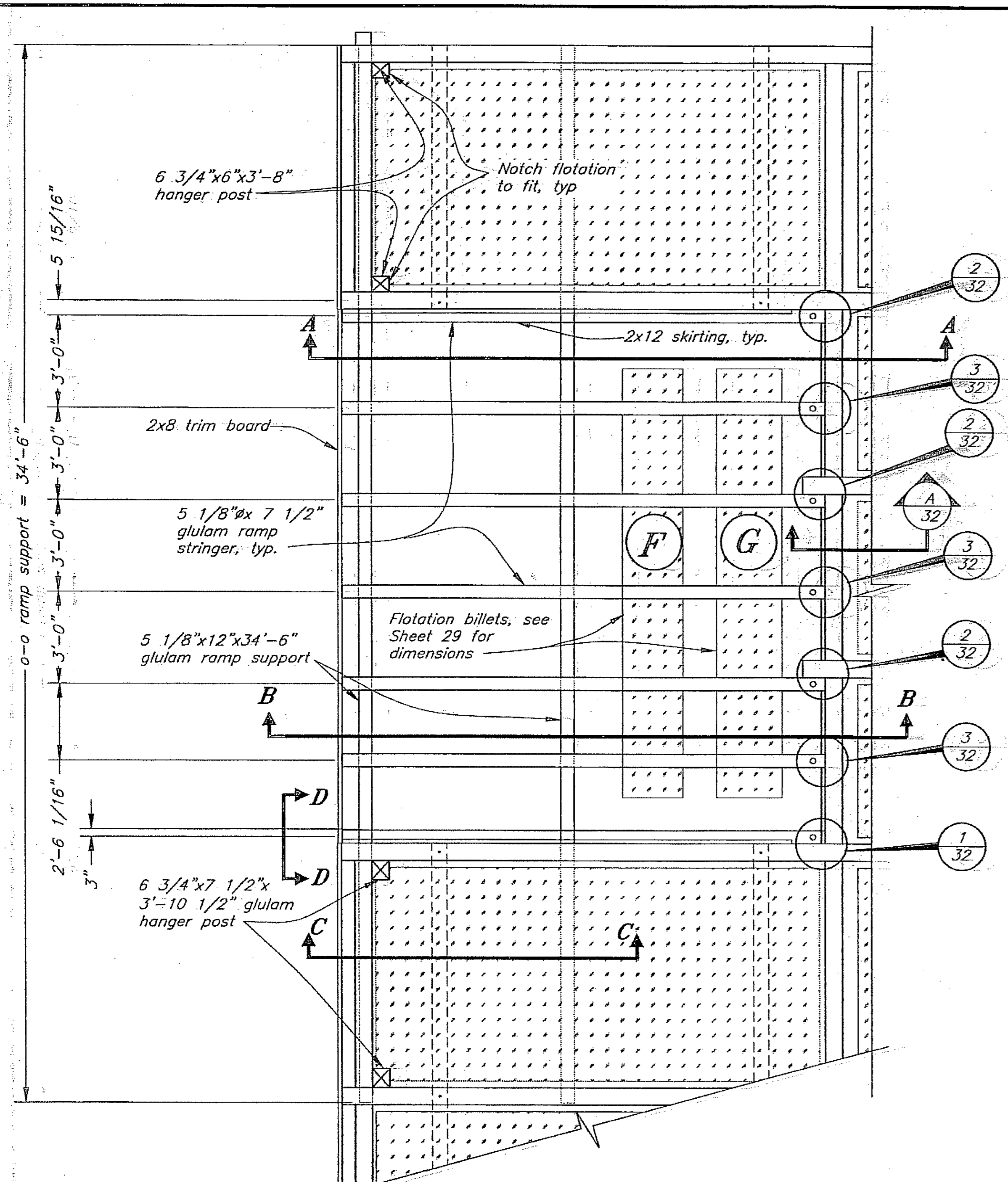


Side Safety Rail Section (B) 27

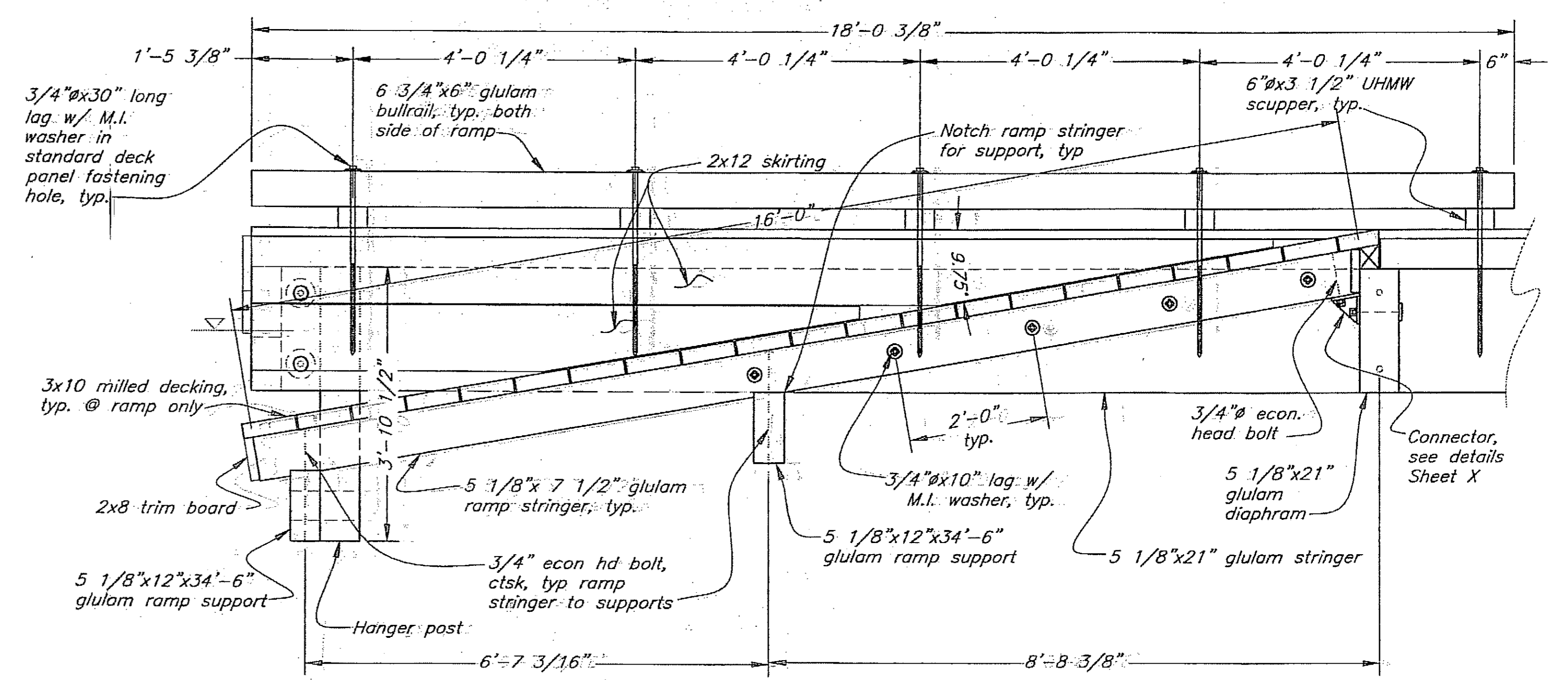
Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge, the project as constructed.
PE: [Signature] Date: 2-23-09

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

DESIGNED BY: K. Miller		STATE OF ALASKA DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES STATEWIDE DESIGN & ENGINEERING SERVICES DIVISION			
		Clark Bay Seaplane Facility Project 67497			
		Float Details			
CHECKED BY: J. Beedle		PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
DRAWN BY: C. Fuman		67497	2006	29	43
PATH: Q:\Pow\67497\MF\PlanSet\29-Main Float Details.dwg					
PLOT: PSPACE 1=1 Tab: Deck Details		Wed, 26/Jul/06 09:56AM			

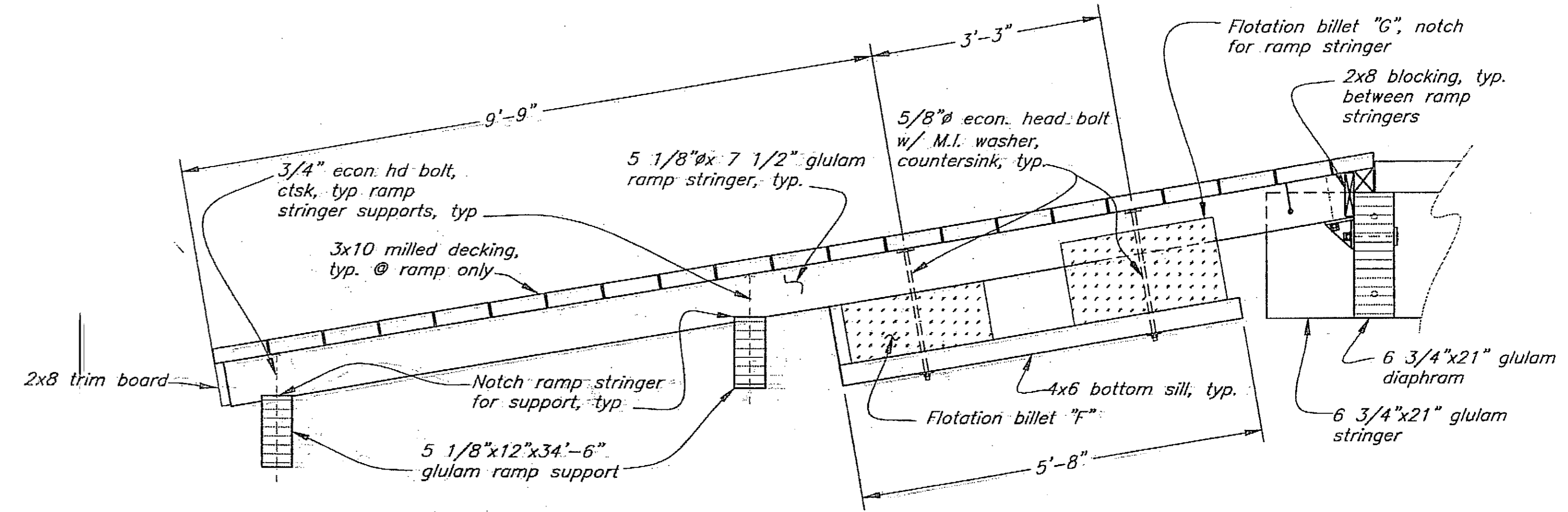


Haul Out Ramp Framing Plan



Section A-A

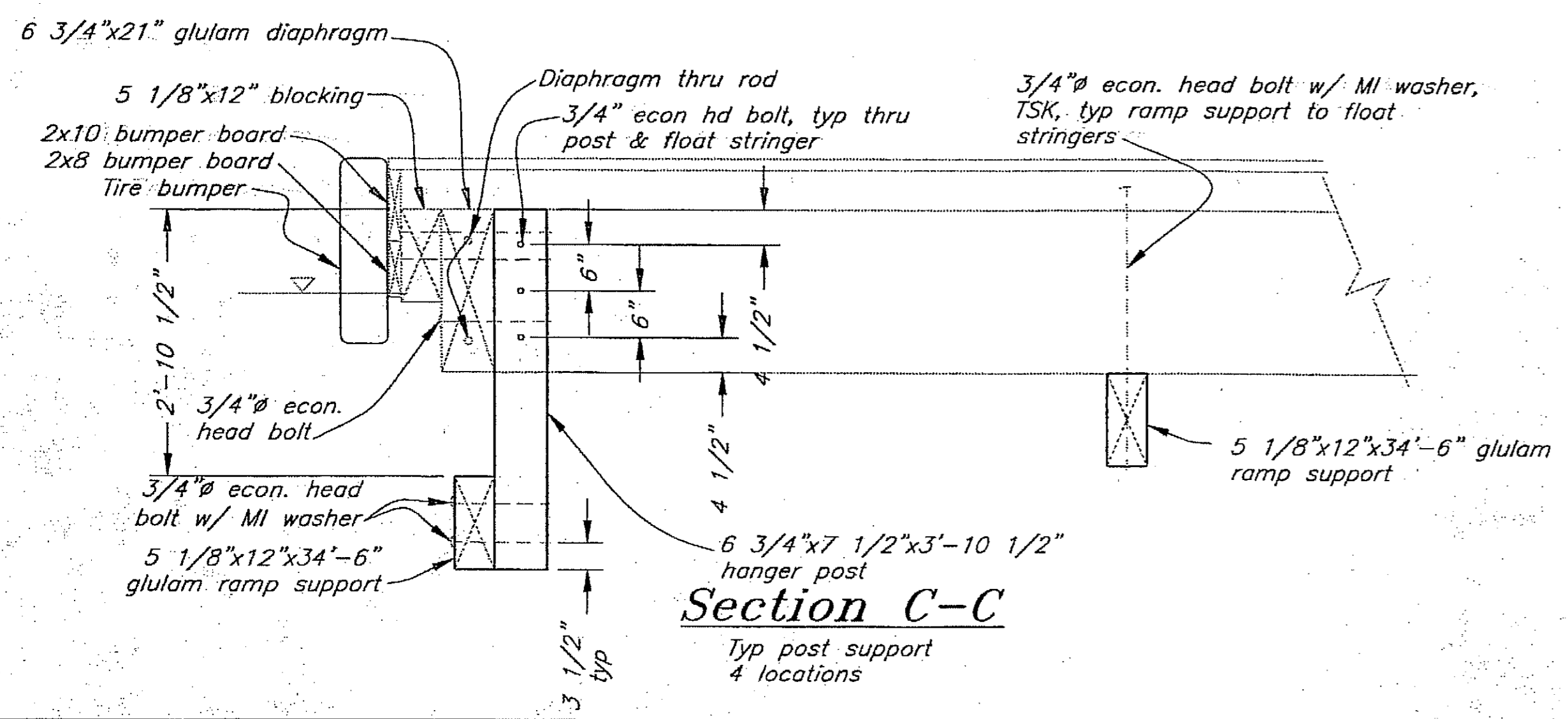
Decking Notes:
 1. Provide full length decking across ramp width. Space deck boards 1/4" apart.
 2. Secure all 3x10 decking with 3 ea. 50d double hot-dip galvanized nails to each stringer. Pre-drill to prevent splitting.



Section B-B

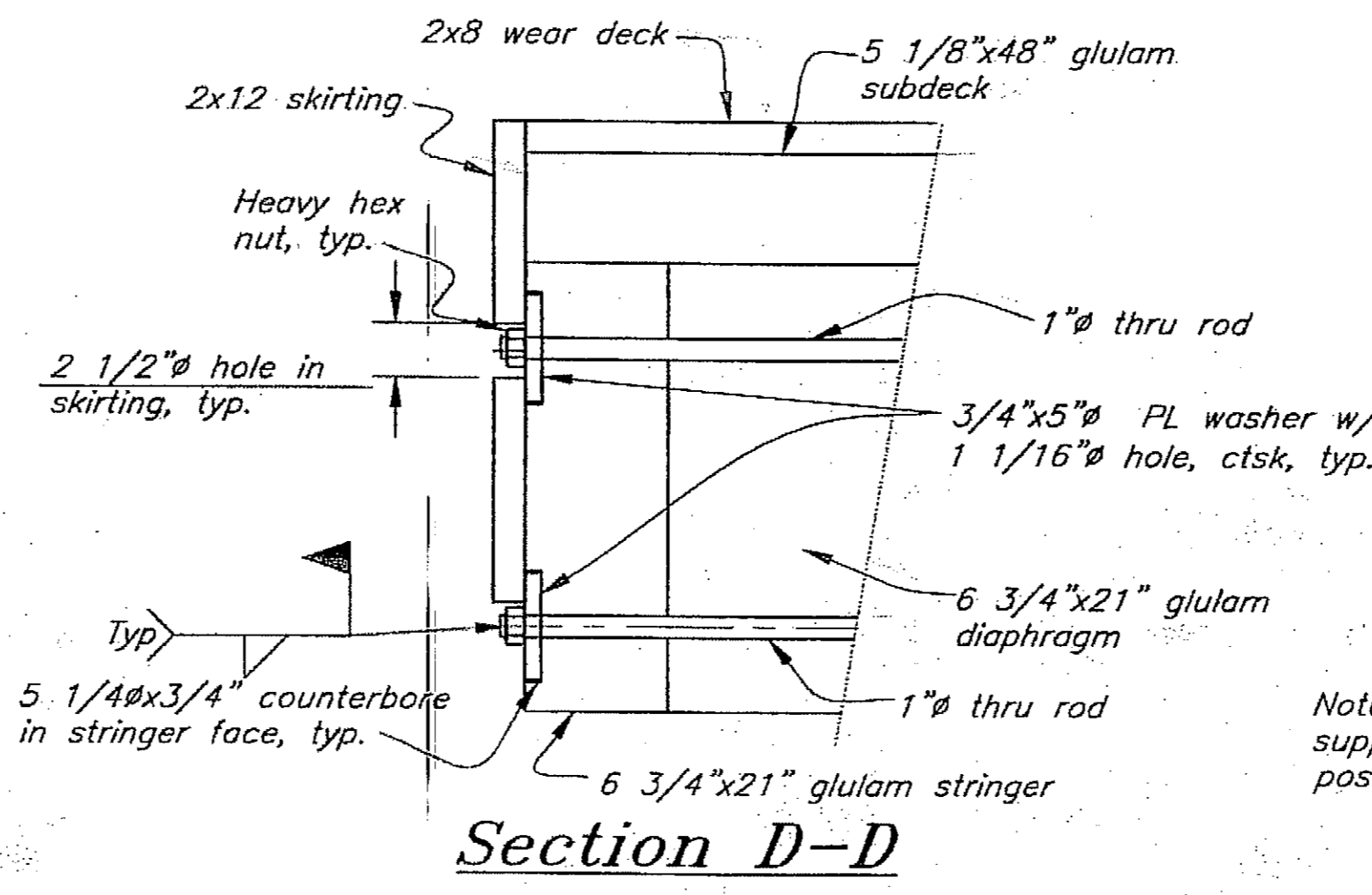
NOTE:
 See Sheet 29 for flotation billet sizes.

Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge, the project as constructed.
 PE Kirk D. Miller Date 2-29-08



Section C-C

Typ post support 4 locations

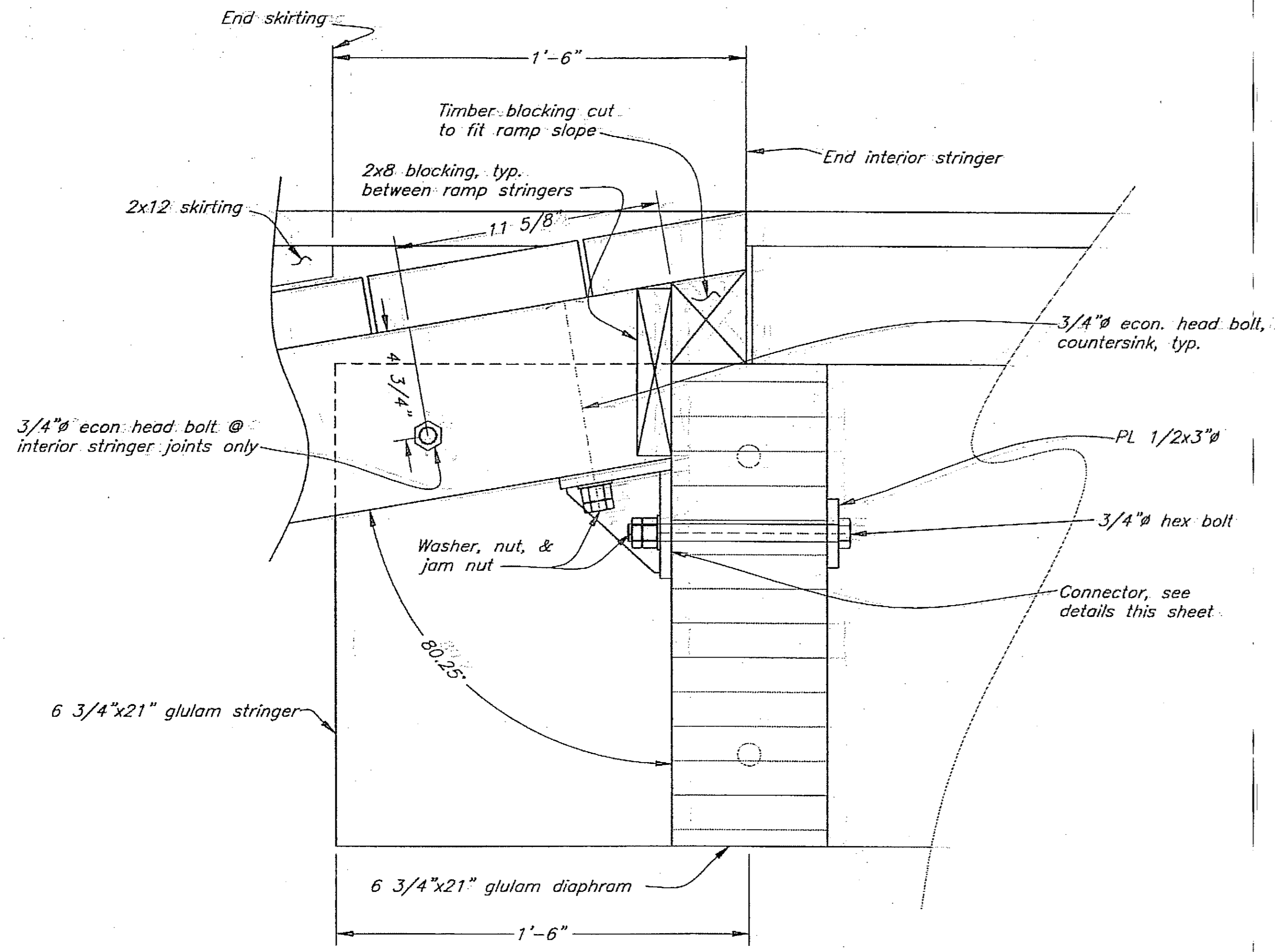


Section D-D

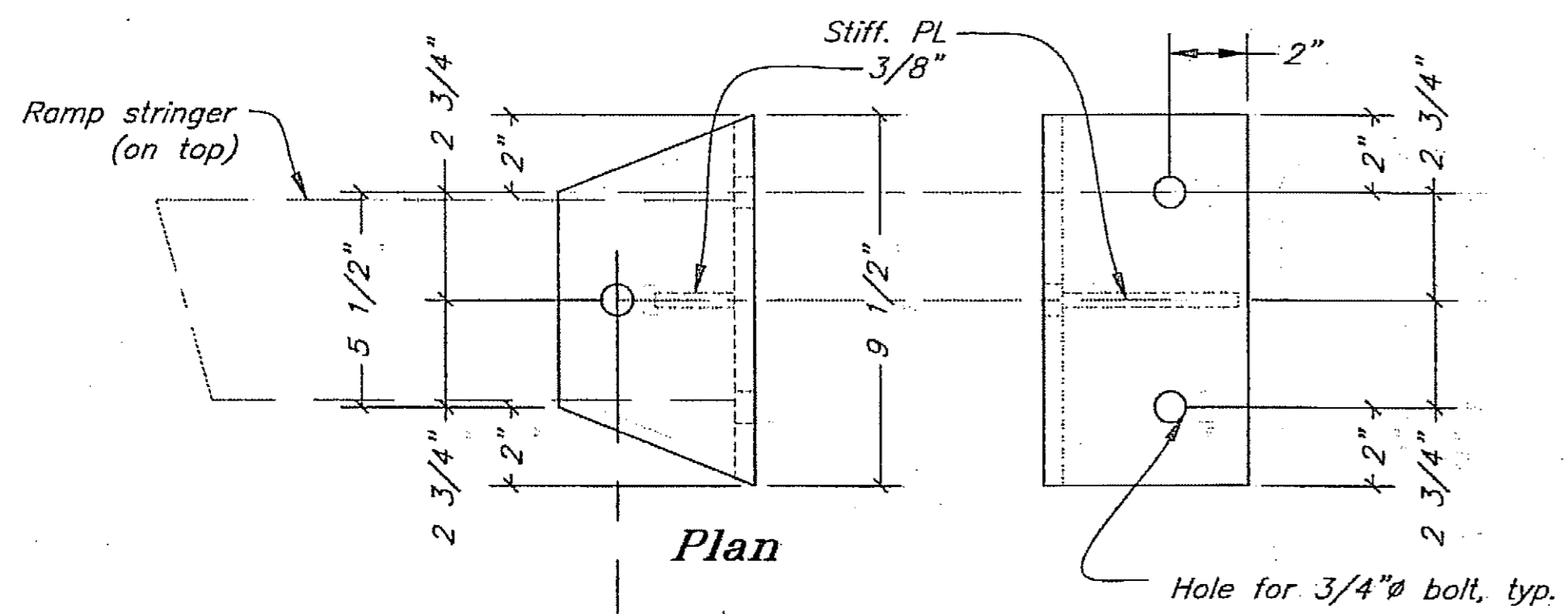
Note: Ramp support & hanger post not shown

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

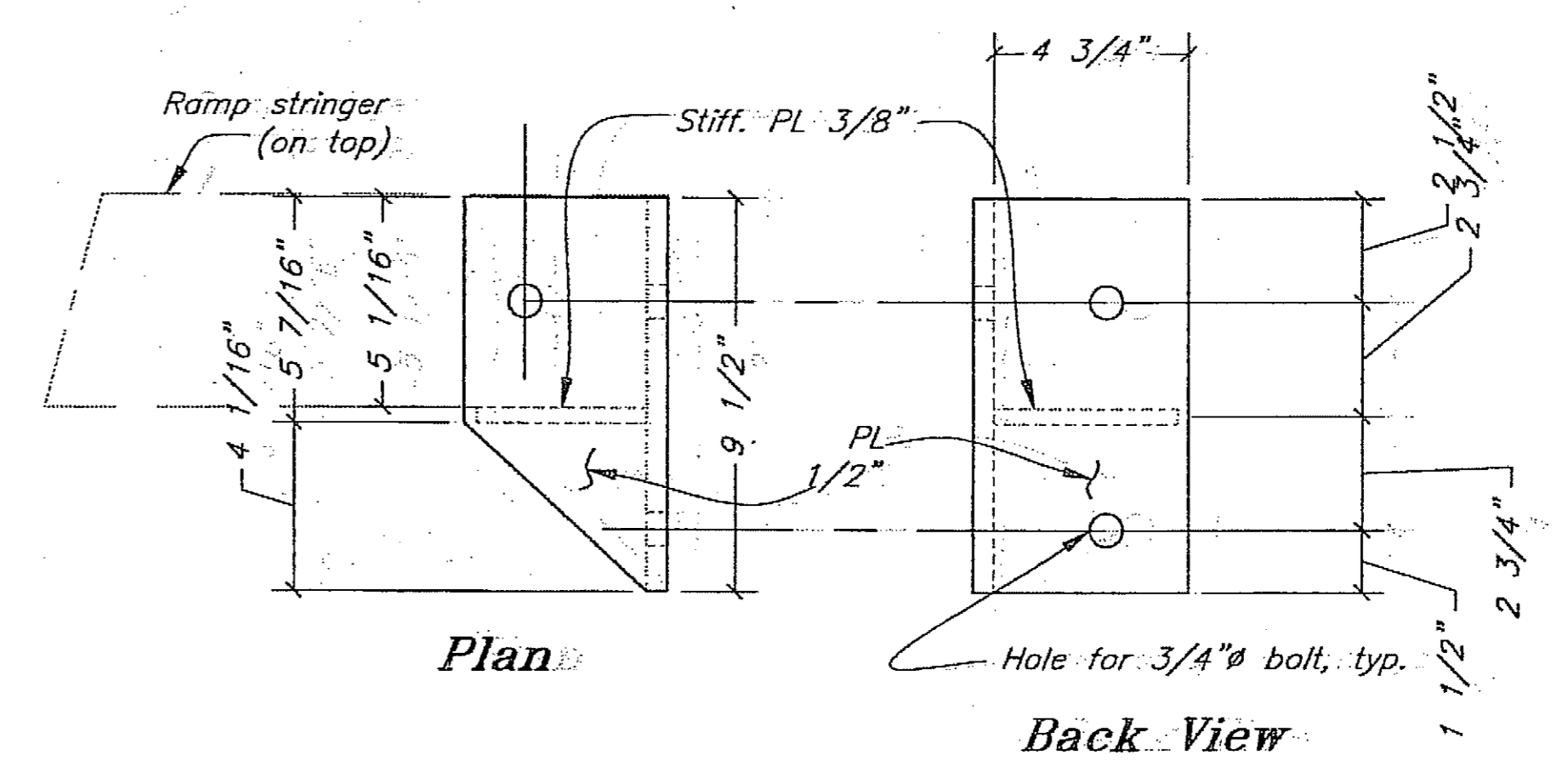
DESIGNED BY: K. Miller	STATE OF ALASKA DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES STATEWIDE DESIGN & ENGINEERING SERVICES DIVISION										
	Clark Bay Seaplane Facility Project 67497										
	Float Haul Out Ramp Framing										
CHECKED BY: J. Beedle	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS							
DRAWN BY: C. Fuman	67497	2006	31	43							
PATH: Q:\Pow\67497\MF\Planset\31-Main Float Ramp Framing.dwg PLOT: PSPACE 1=1 Tab: Ramp Wed, 26/Jul/06 09:56AM											
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NO.	DATE	REVISIONS DESCRIPTION									



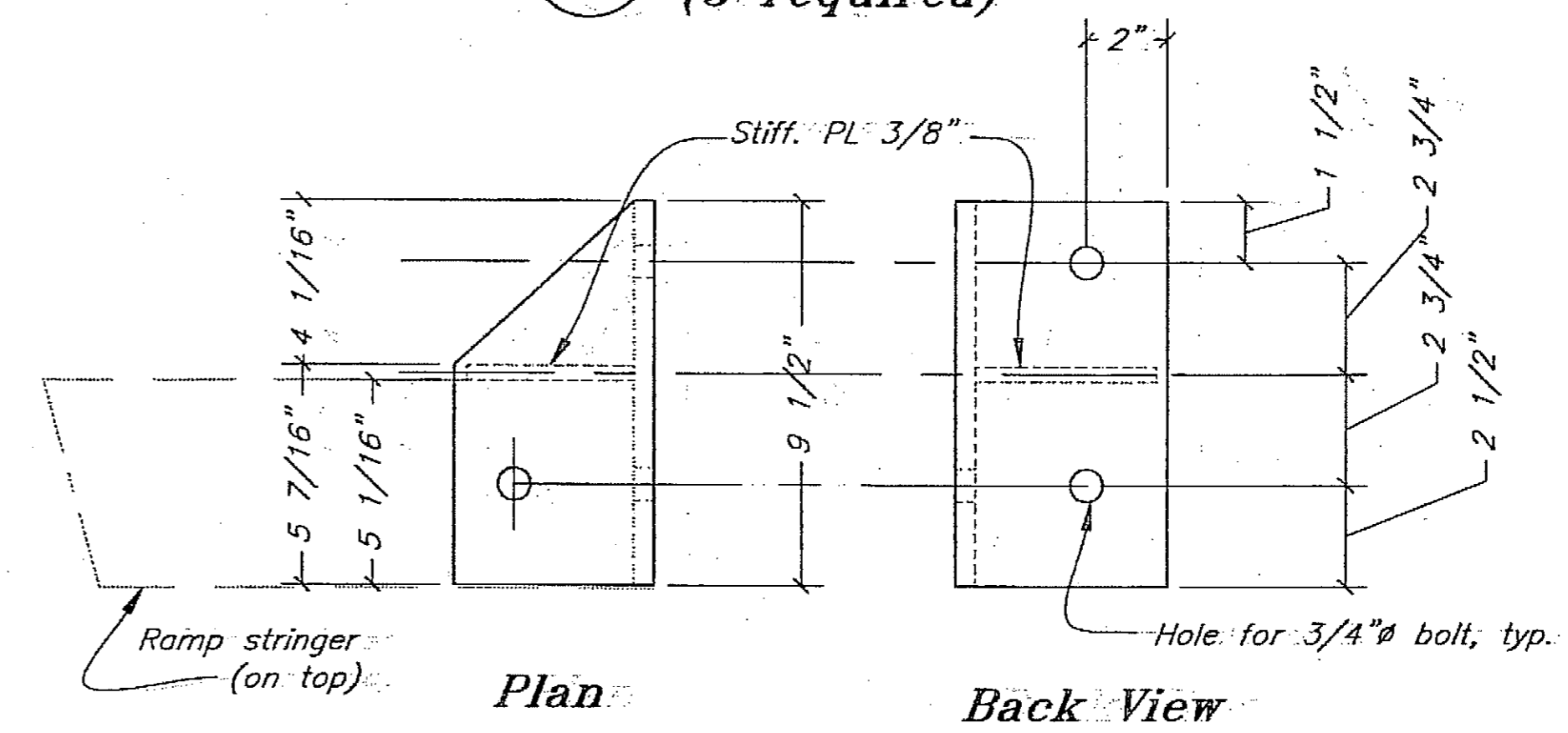
Section A
31



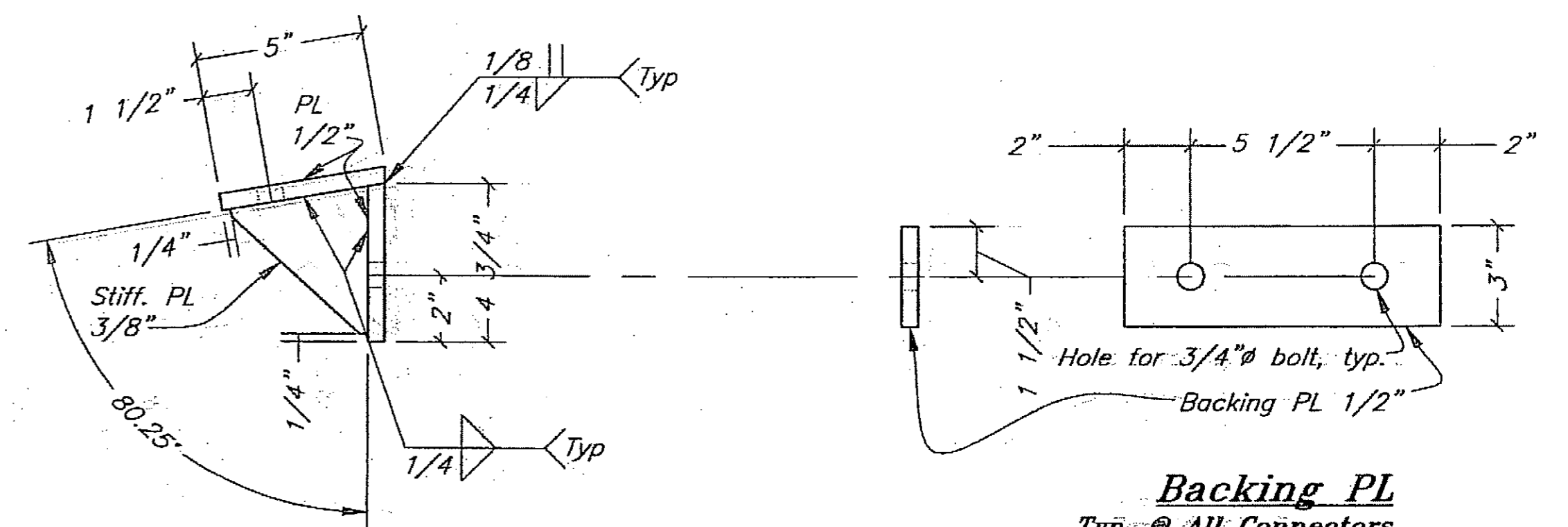
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31 (3 required)



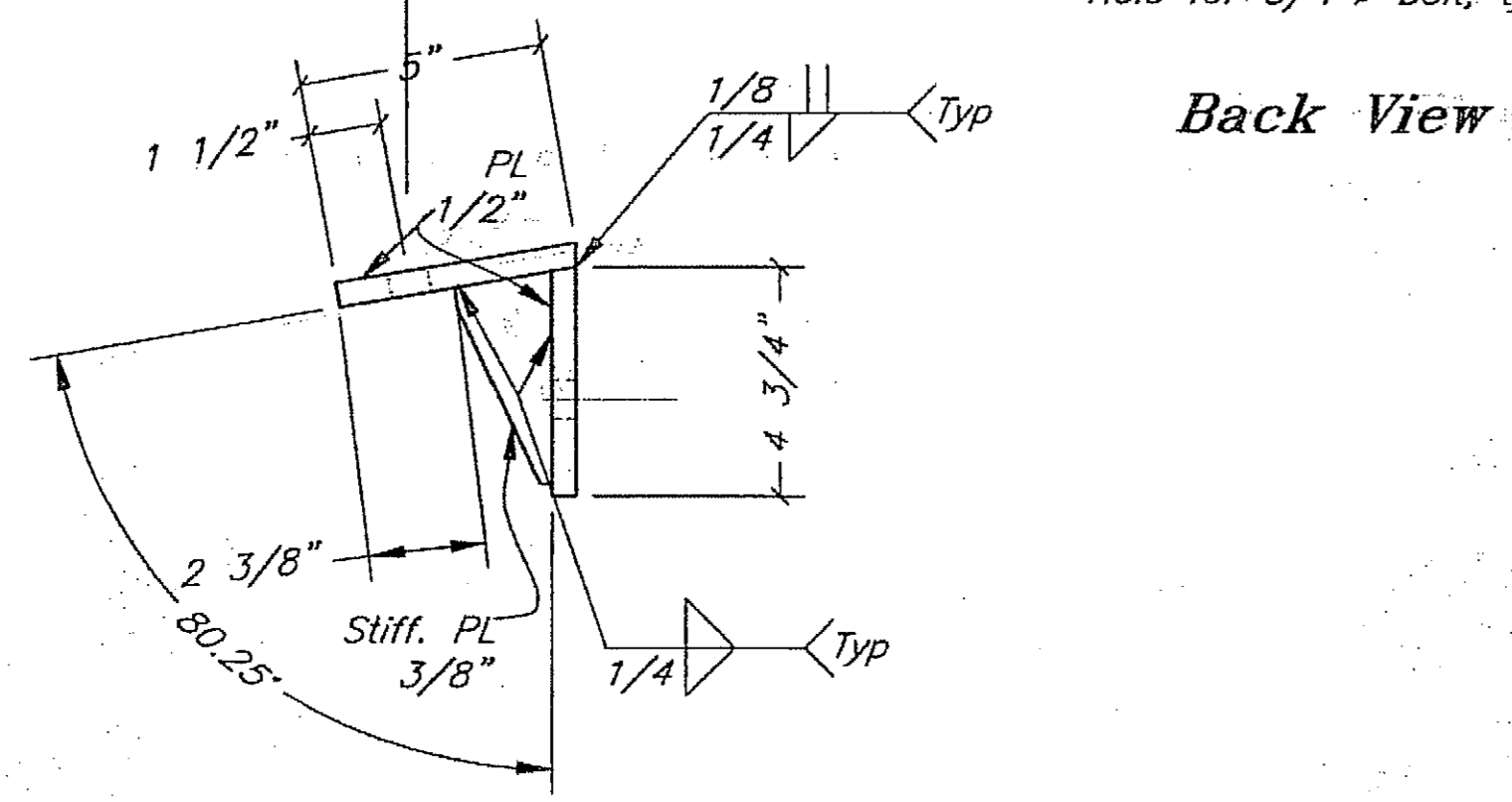
Note: See Detail-1 for elevation view & welds.



2
31 (3 required)



1
31 (1 required)

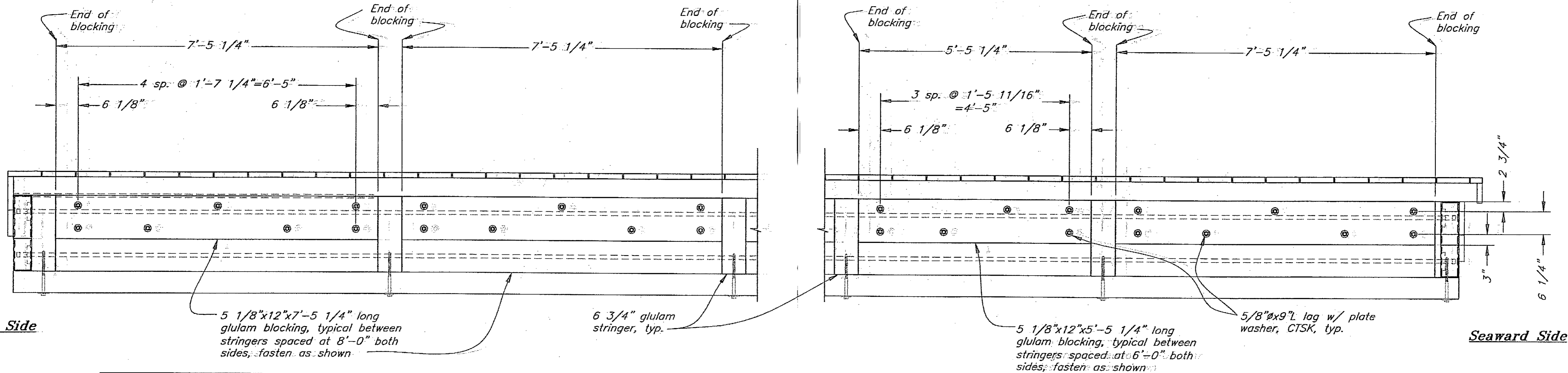


Elevation
Detail
3
(3 required) **31**

Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge, the project as constructed.
PE: *[Signature]* Date: 2-29-08

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

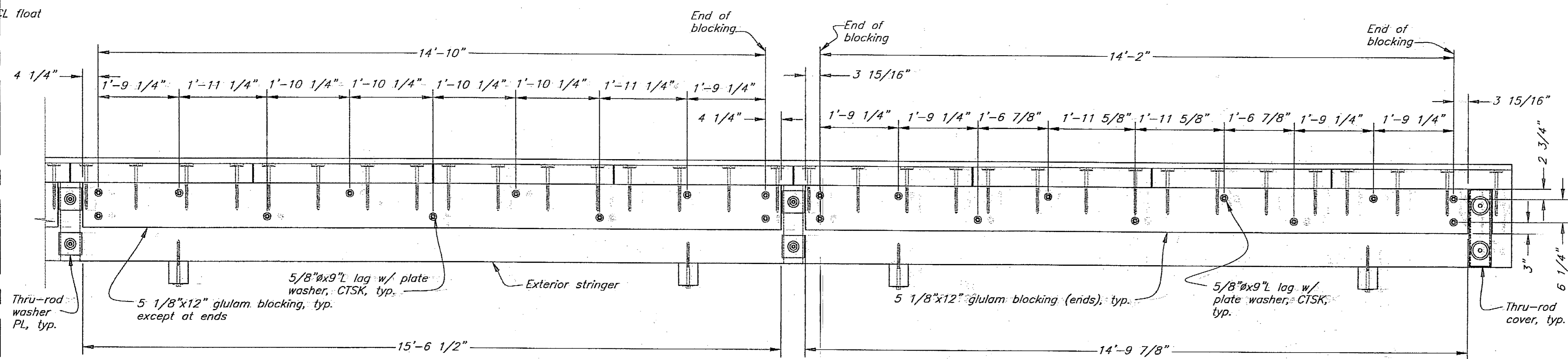
DESIGNED BY: K. Miller		STATE OF ALASKA DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES STATEWIDE DESIGN & ENGINEERING SERVICES DIVISION			
		Clark Bay Seaplane Facility Project 67497			
		Float Haul Out Ramp Details			
CHECKED BY: J. Beedle		PROJECT DESIGNATION: 67497			
DRAWN BY: C. Fuman		YEAR: 2006			
PATH: Q:\Paw\67497\MF\Planset\32-Main Float Ramp Details.dwg		SHEET NO.: 32			
PLOT: PSPACE 1=1 Tab: Ramp details		TOTAL SHEETS: 43			
DATE: Wed, 26/Jul/06 09:56AM					



Note: Opposite side mirror image

Blocking Elevation - Float Sides

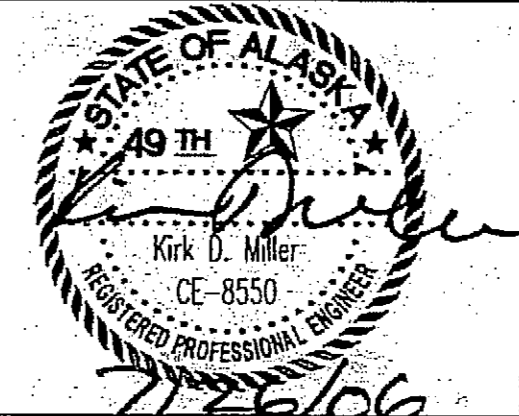
Symmetrical @ CL float

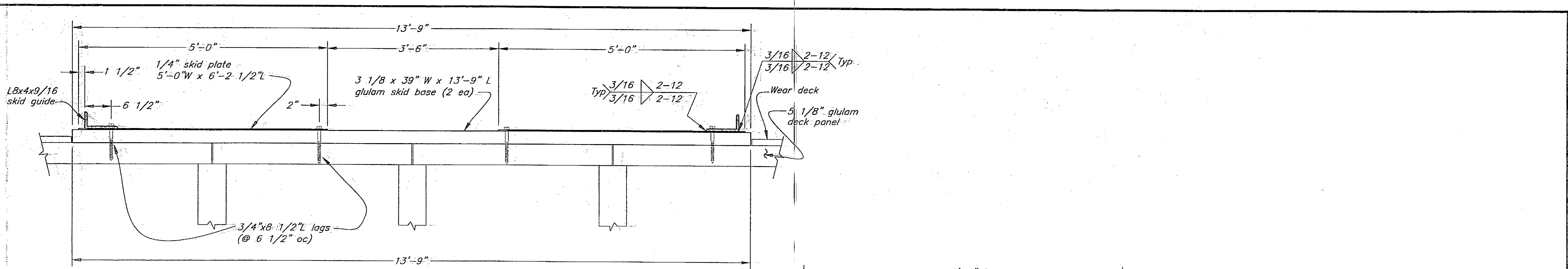


Blocking Elevation - Float Seaward Side

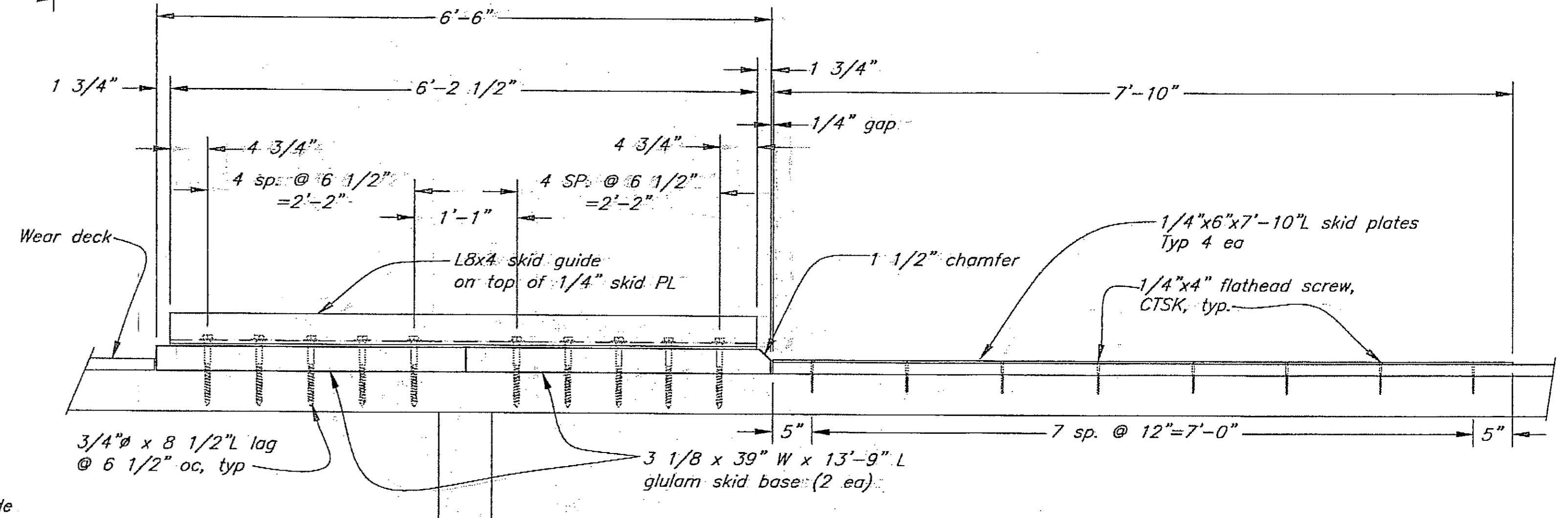
Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge the project as constructed.
 PE *K. Miller* Date 2-27-06

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

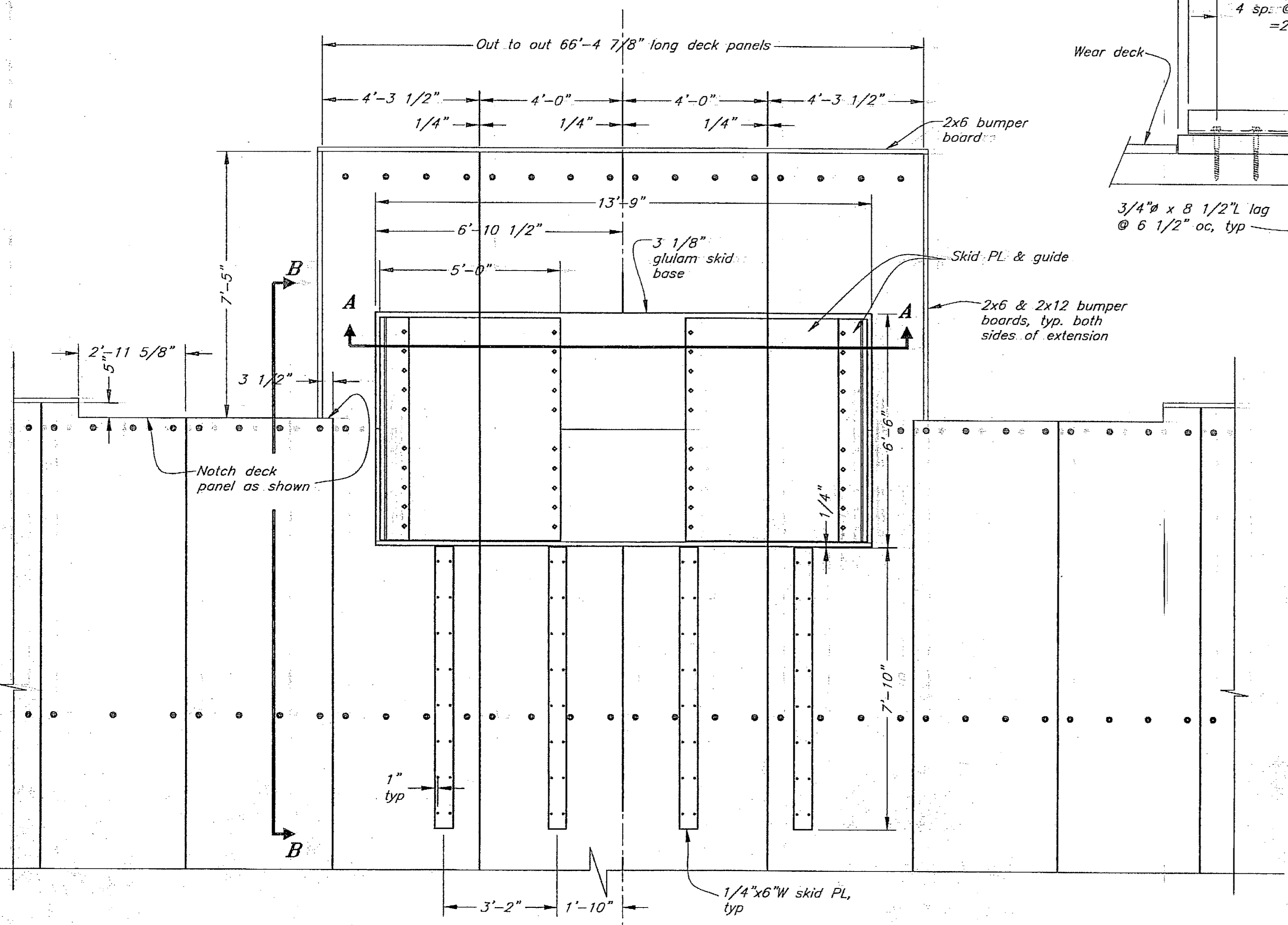
DESIGNED BY: <i>K. Miller</i>  CHECKED BY: <i>J. Beedle</i> DRAWN BY: <i>C. Furman</i>		STATE OF ALASKA DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES STATEWIDE DESIGN & ENGINEERING SERVICES DIVISION Clark Bay Seaplane Facility Project 67497 Float Exterior Blocking			
PATH: Q:\Pw\67497\MF\Planset\33-Main Float Blocking.dwg PLOT: PSPACE 1=1 Tab: Blocking Wed, 26/Jul/06 09:56AM		PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
		67497	2006	33	43



Skid Section A-A



Skid Side Elevation B-B



Float Extension Gangway Skid Plan

- Skid Plate Installation Notes:**
1. Affix skid plates to float after placement of float & trestle structures & verification of as-built position.
 2. Omit wear deck boards in region of skid plates & temporarily place skid plate assemblies at plan location or as otherwise directed by the Engineer based on as-built position of structures.
 3. Observe & mark gangway travel for a minimum of 5-days of tidal cycles.
 4. Adjust location & alignment of skid plates as required after gangway travel characteristics are known.
 5. Install lag bolts as noted on plans and place remaining wear deck boards to match.

Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge and belief the project as constructed. Date: 2-29-08
 PE: [Signature]

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

DESIGNED BY: K. Miller

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

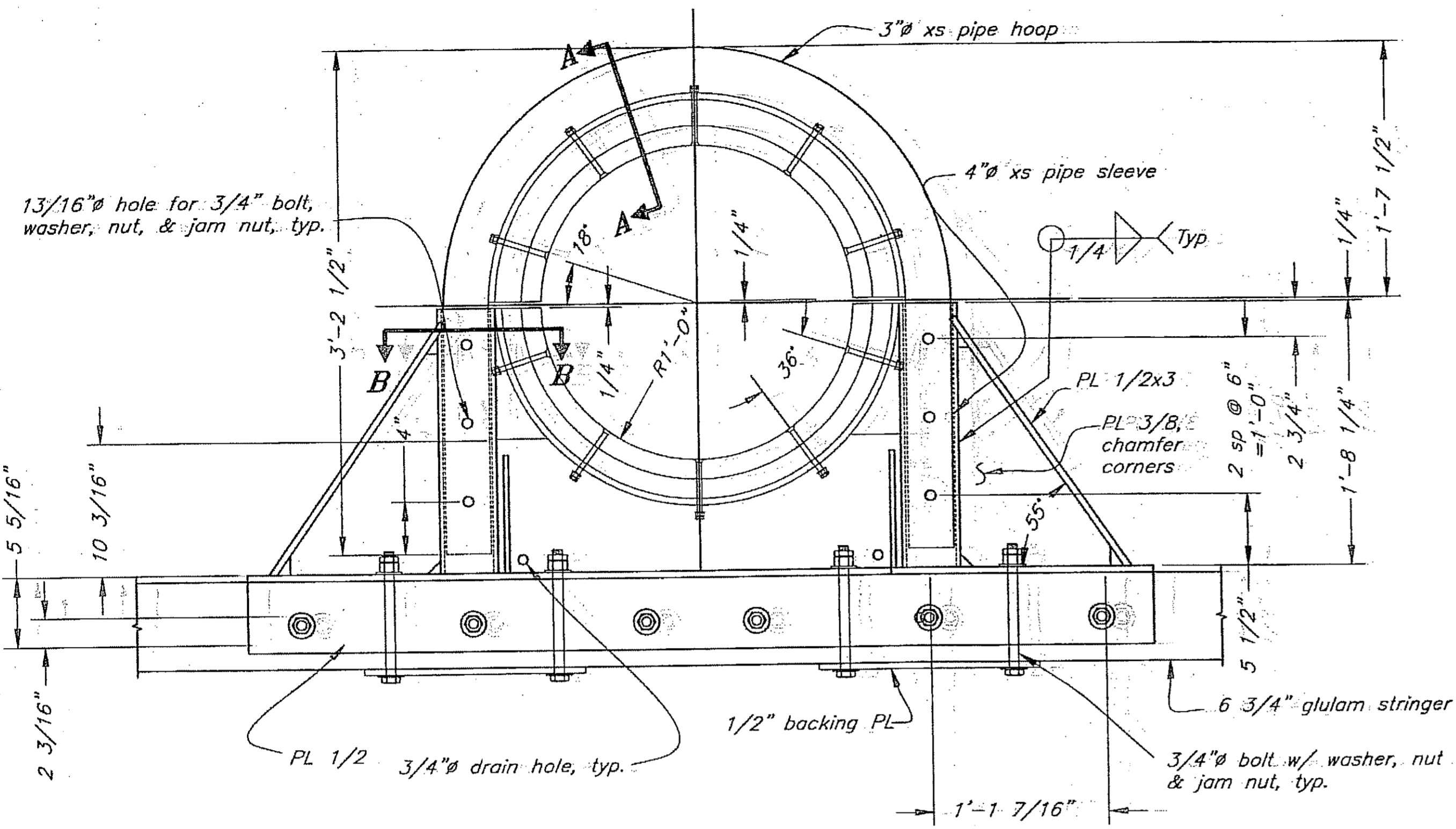
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STATE OF ALASKA
 DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
 STATEWIDE DESIGN & ENGINEERING SERVICES DIVISION

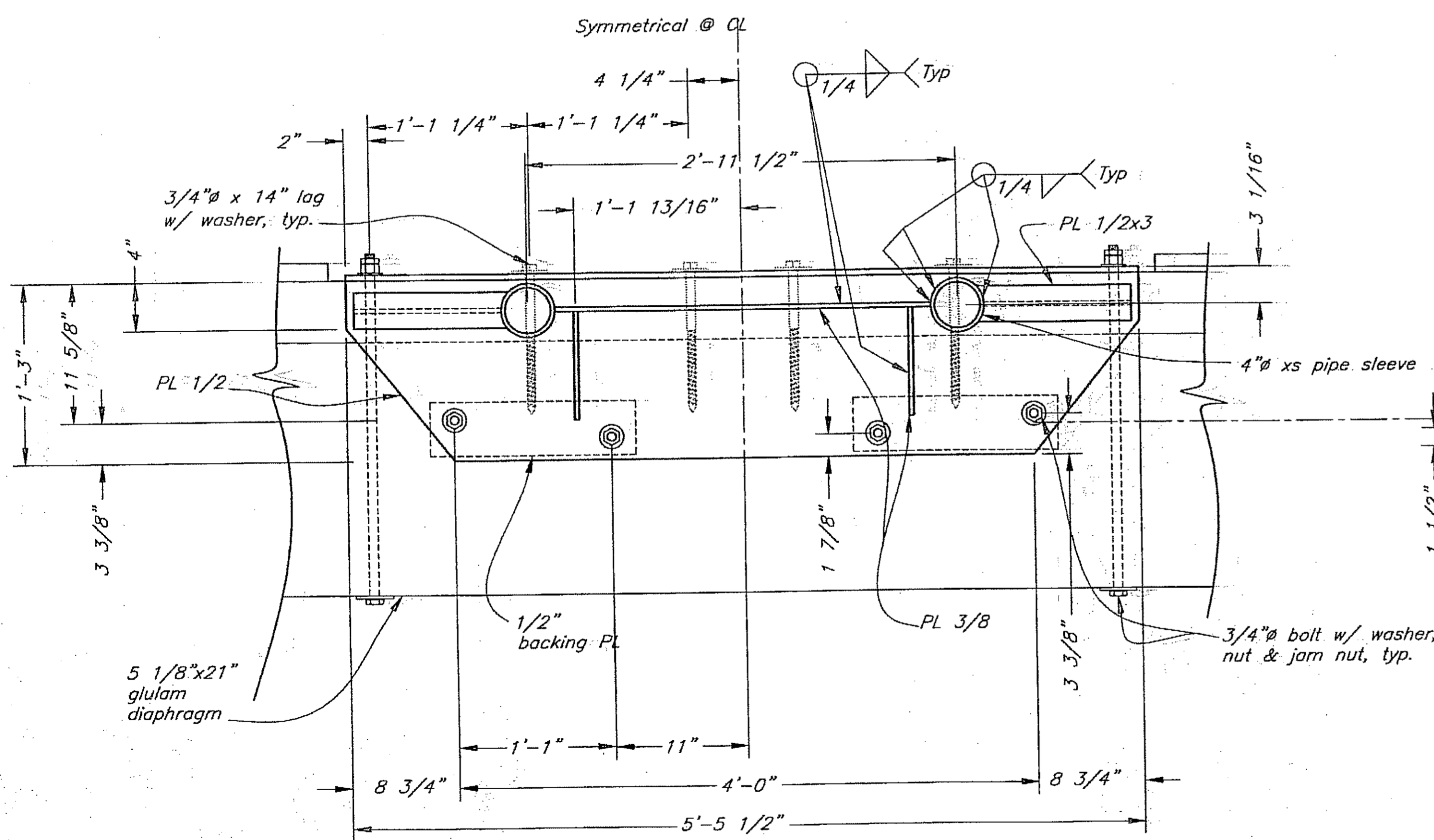
Clark Bay Seaplane Facility
 Project 67497

Float Extension & Gangway Skid Details

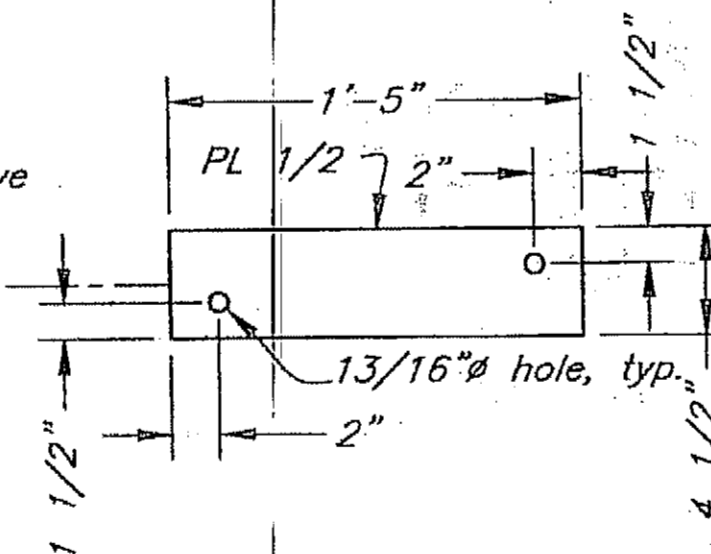
NO.	DATE	REVISIONS DESCRIPTION	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
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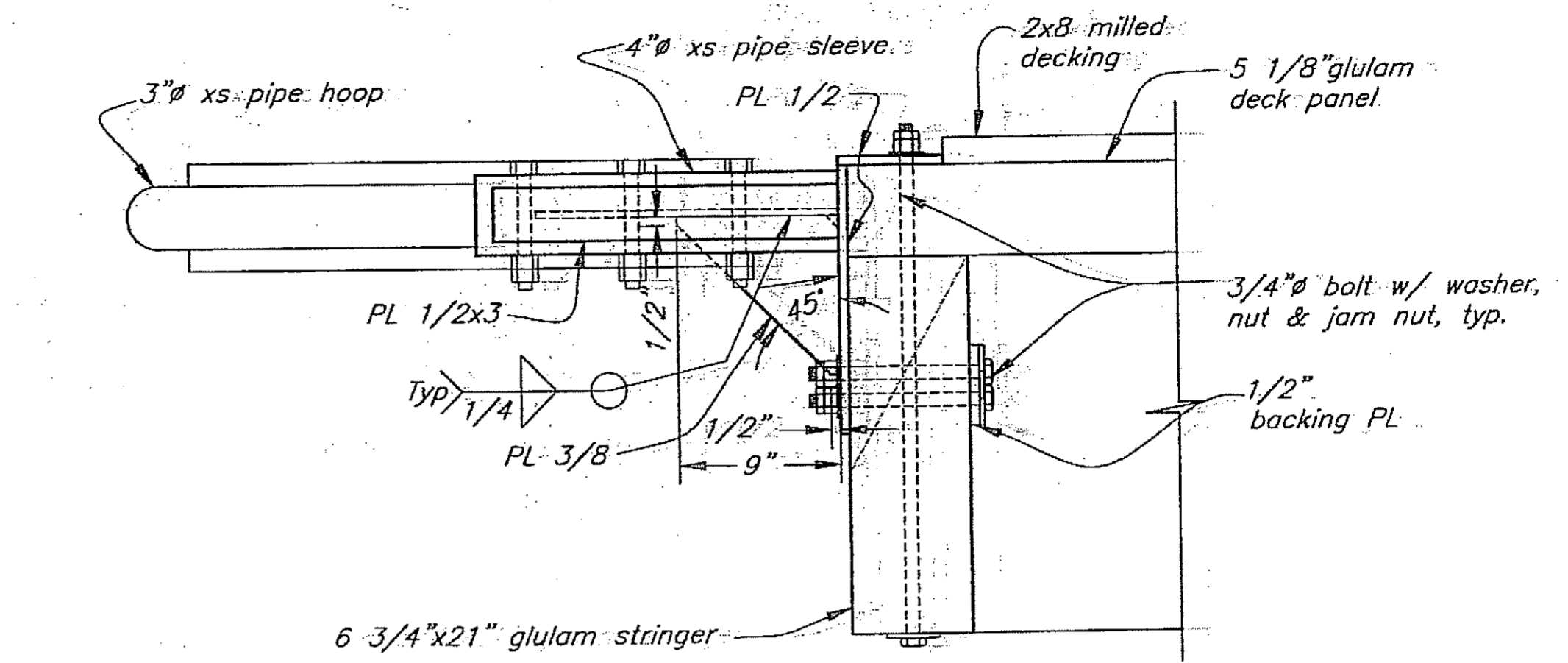
Plan



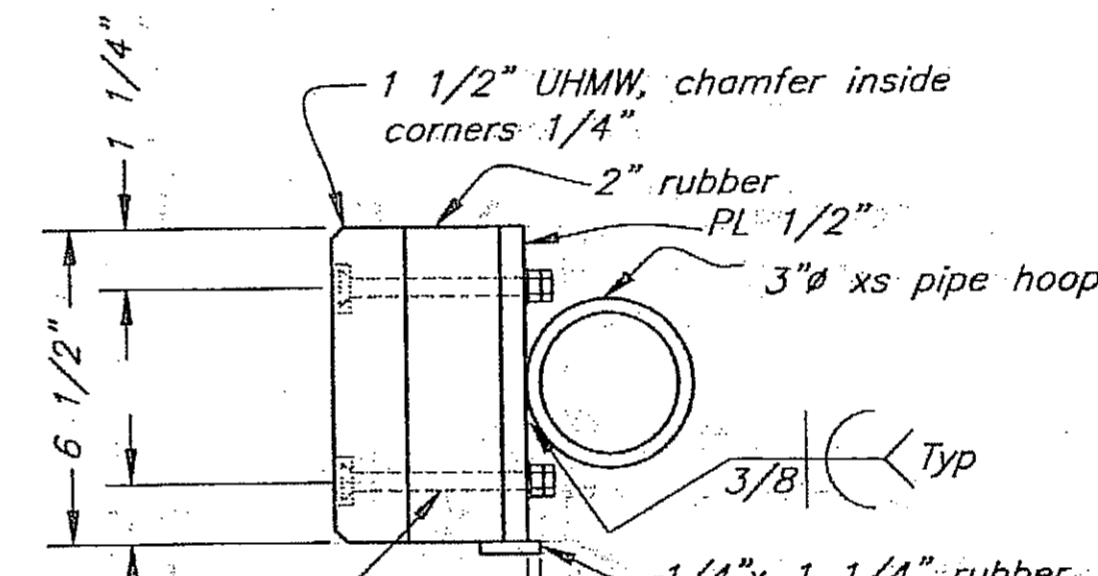
Front Elevation



Backng PL

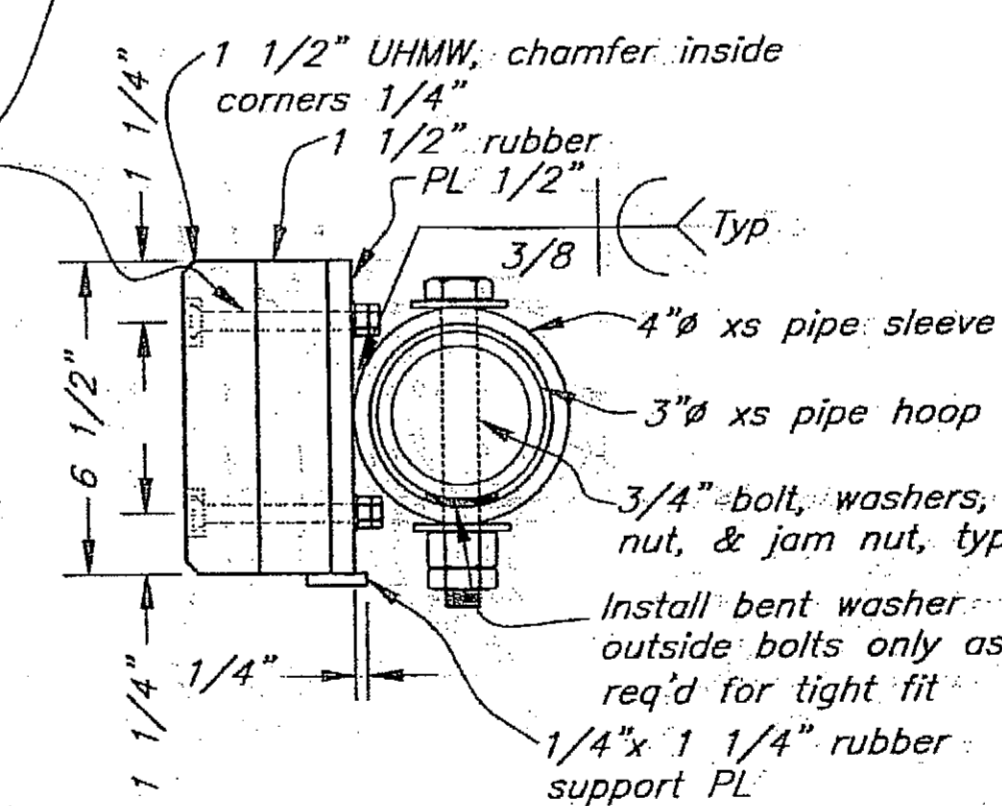


Side View



Section A-A

3/8" 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.

Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge, the project as constructed.
PE: *[Signature]* Date: 2-29-08

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

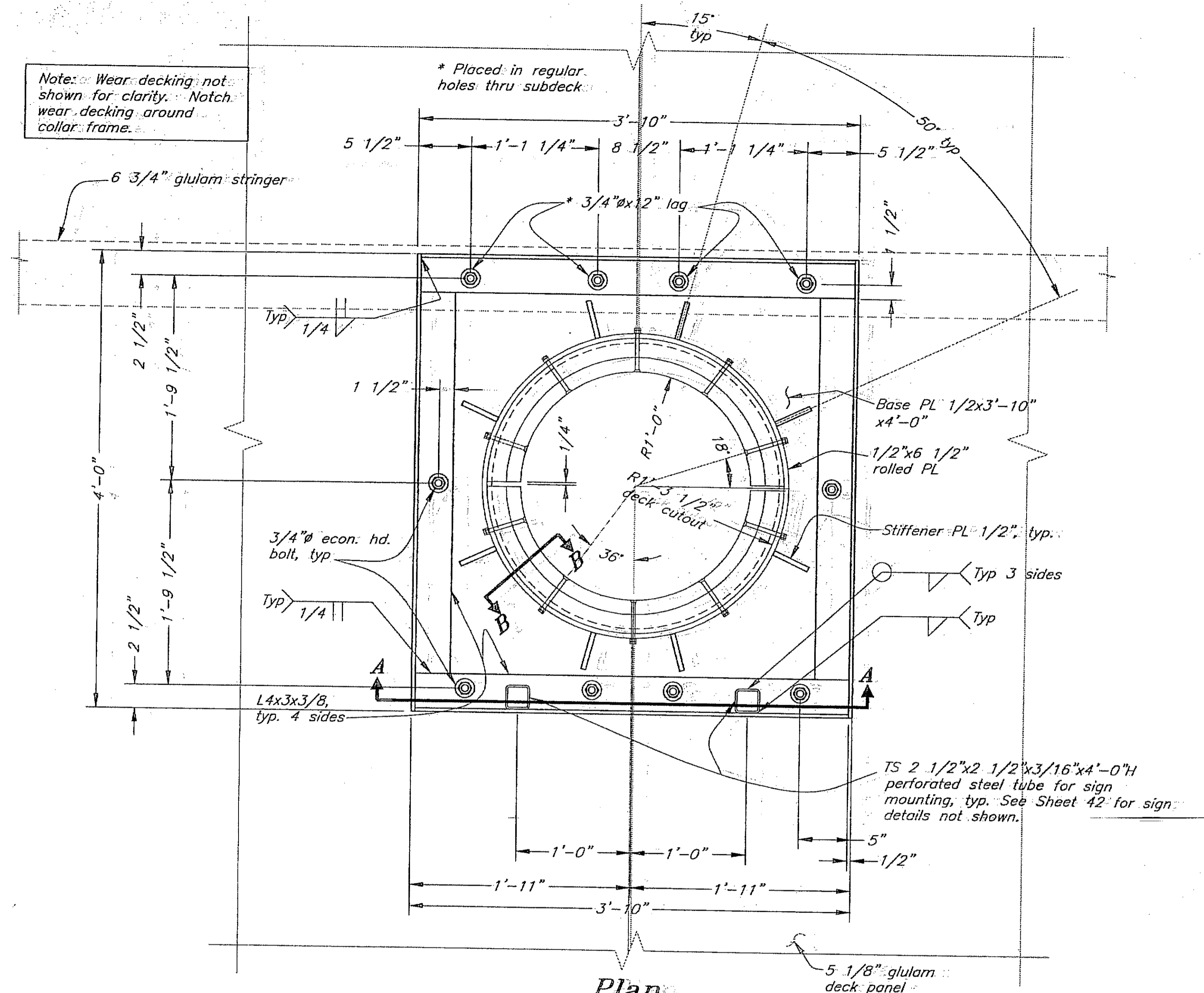
DESIGNED BY: K. Miller

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
& PUBLIC FACILITIES
STATEWIDE DESIGN & ENGINEERING SERVICES DIVISION
**Clark Bay Seaplane Facility
Project 67497**

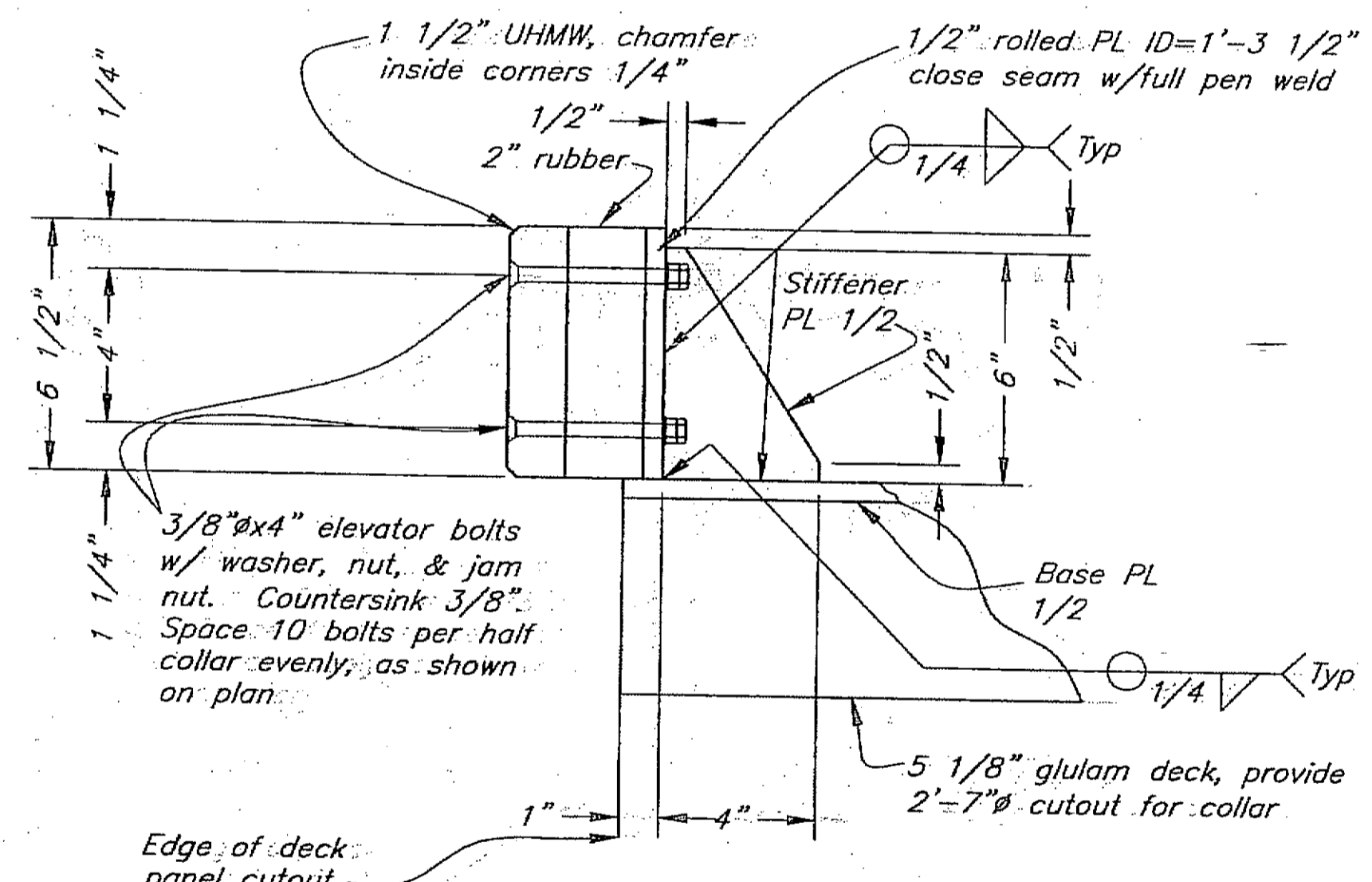
CHECKED BY: J. Beedle
DRAWN BY: C. Furman
PATH: D:\Pow\67497\MF\Planset\35-Main Float Ext Pile collar.dwg
PLOT: PSPACE 1=1 Tab: Ext Collar
Wed, 26/Jul/06 09:56AM

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NO.	DATE	DESCRIPTION				
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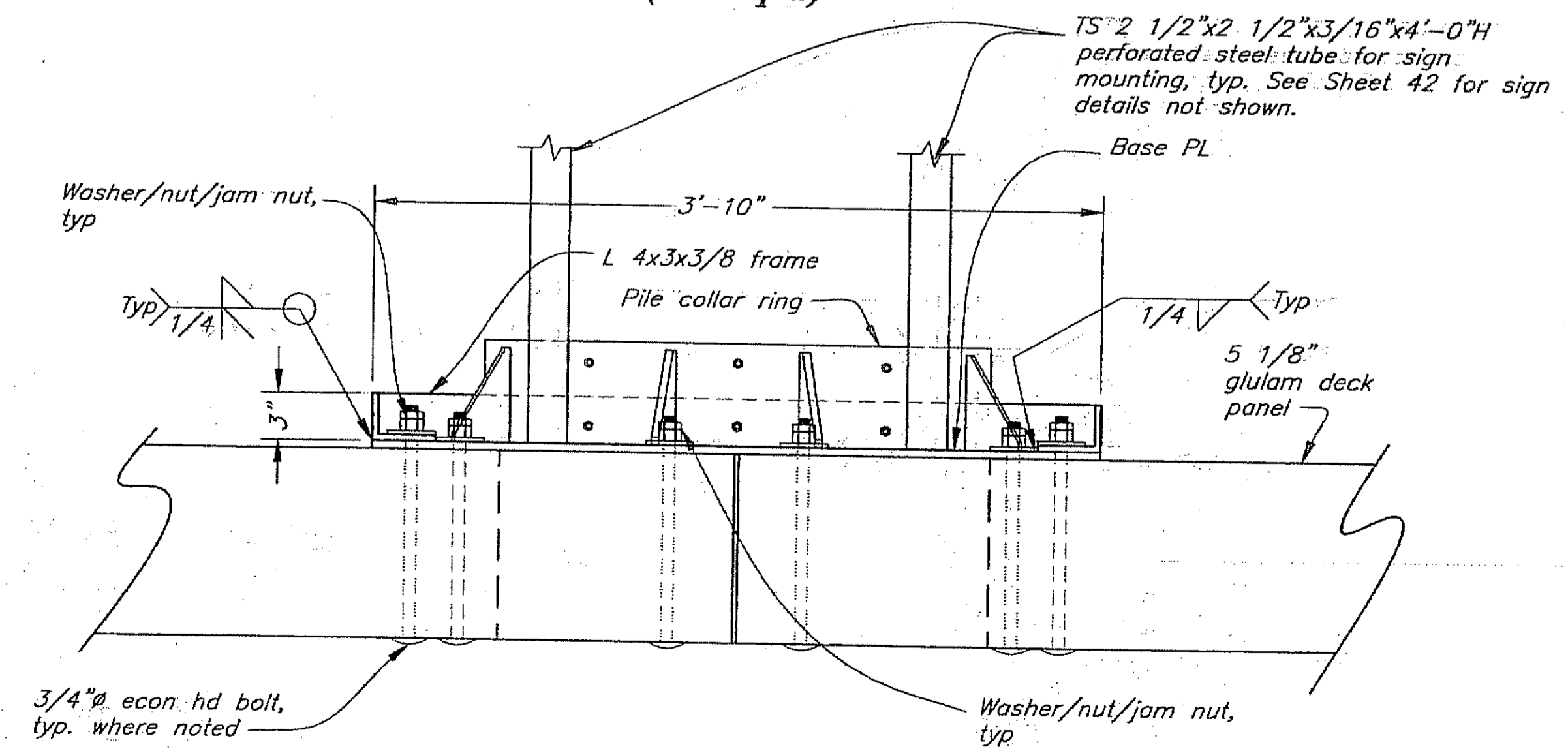
Note: Wear decking not shown for clarity. Notch wear decking around collar frame.



Plan
(2 req'd)



Section B-B

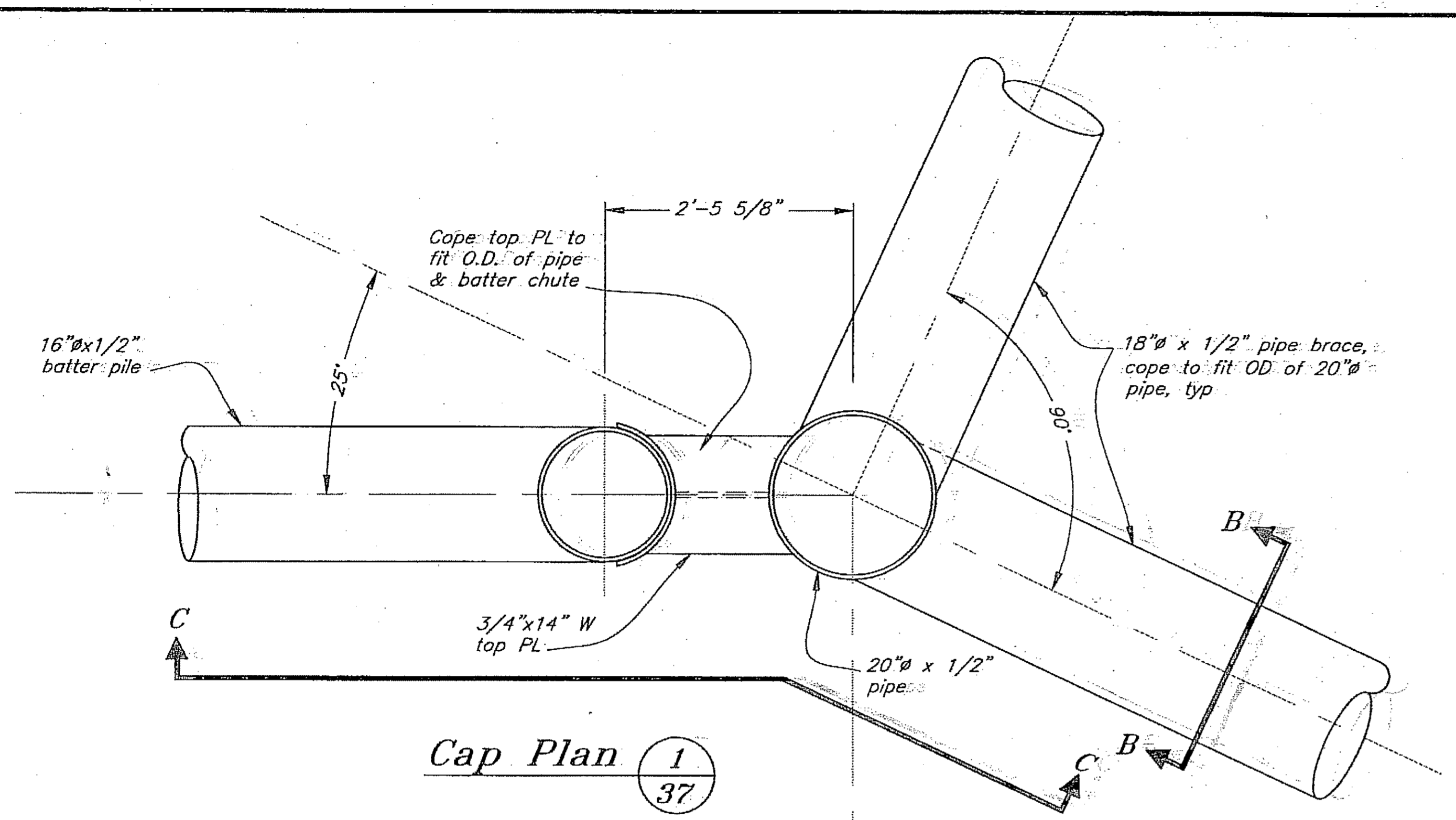


Elevation A-A

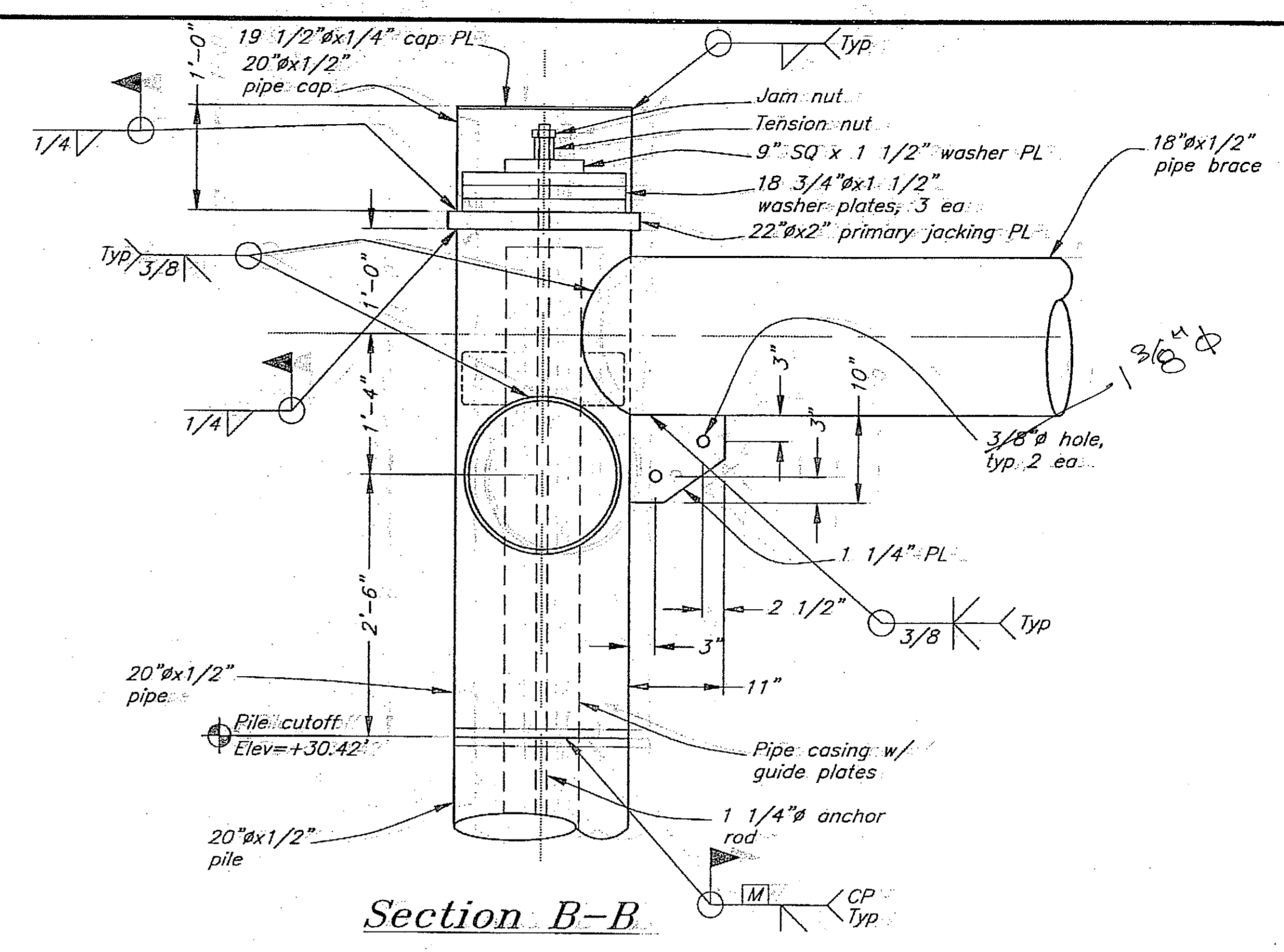
Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge, the project as constructed.
PE *[Signature]* Date 2-27-09

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

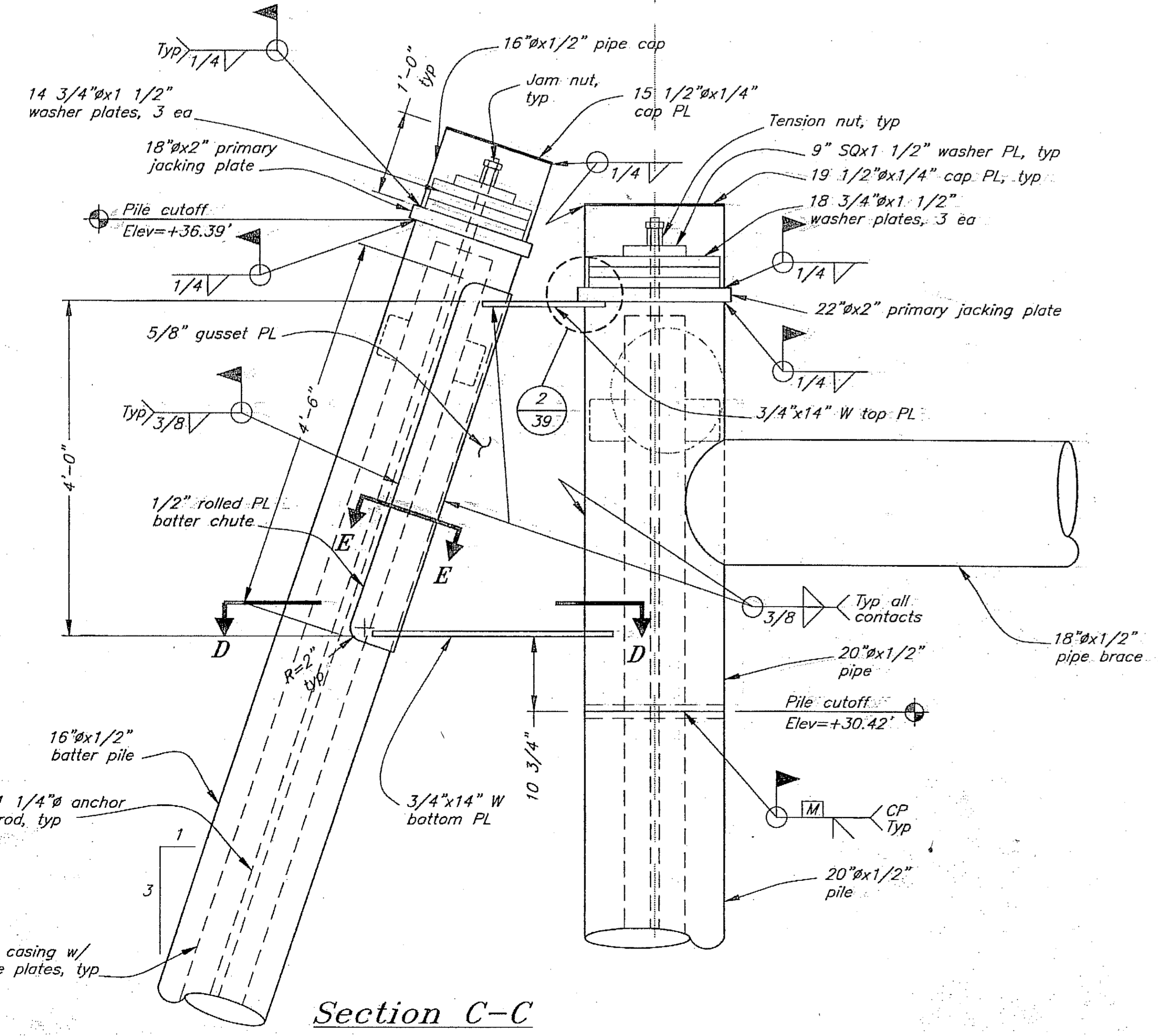
DESIGNED BY: K. Miller		STATE OF ALASKA DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES STATEWIDE DESIGN & ENGINEERING SERVICES DIVISION		
		Clark Bay Seaplane Facility Project 67497		
		Float Interior Pile Collar		
CHECKED BY: B. Savikko		PROJECT DESIGNATION		
DRAWN BY: C. Fuman		YEAR		
PATH: Q:\Pow\67497\MF\Plans\36-Main Float Int. pile collars.dwg		SHEET NO.		
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REVISIONS				
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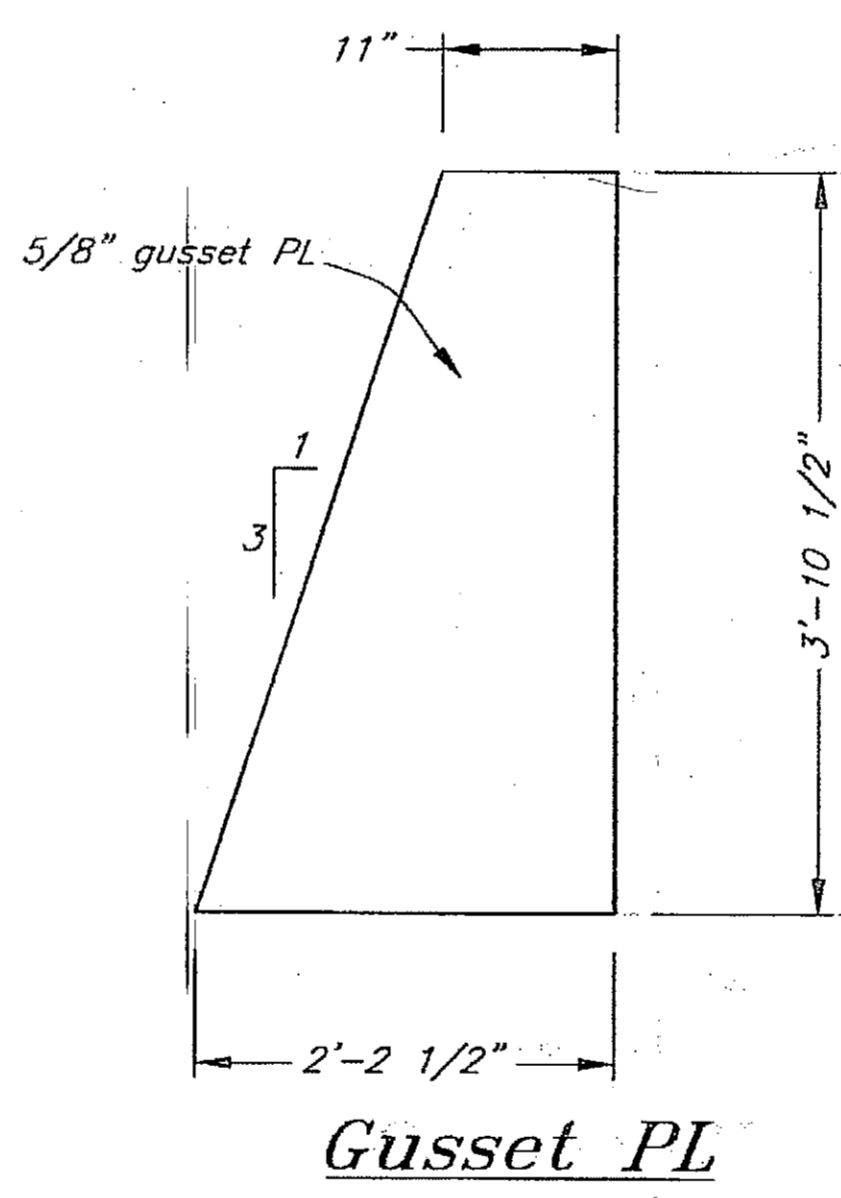
Cap Plan 1/37



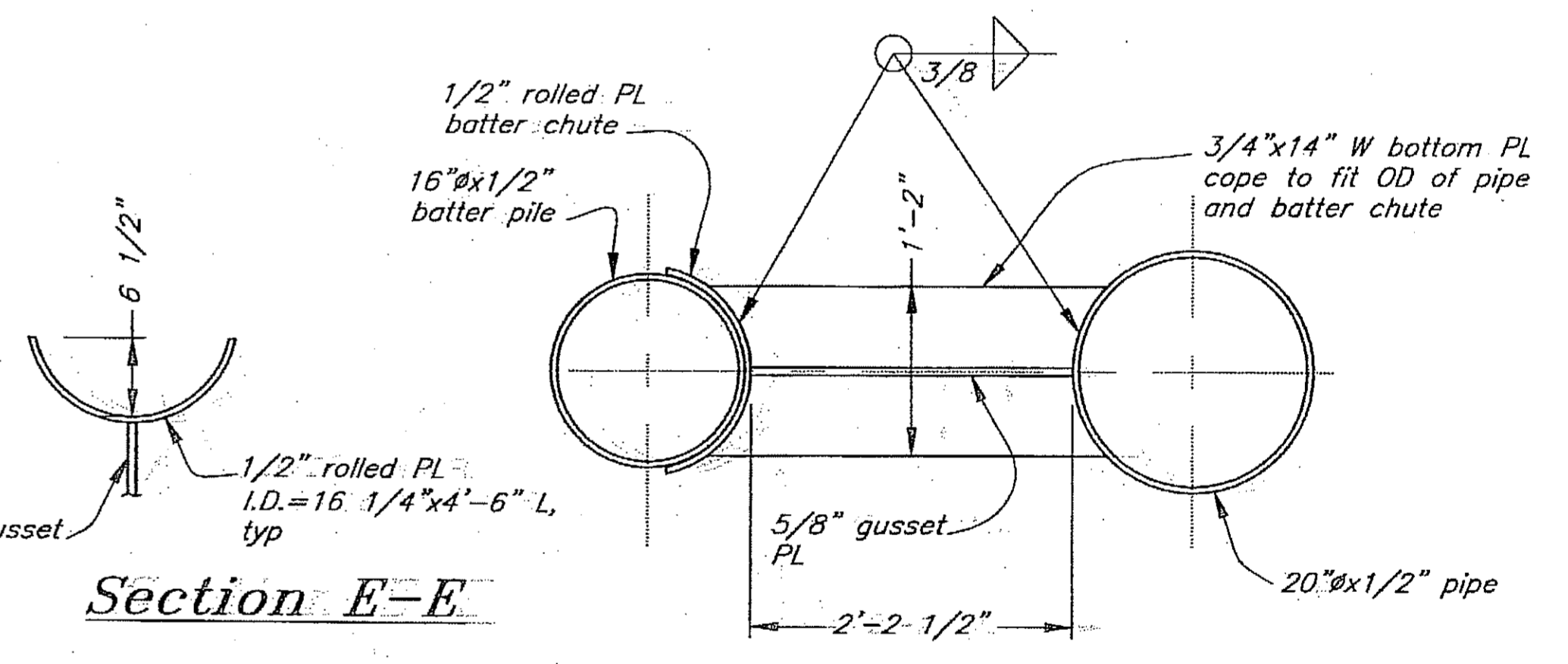
Section B-B



Section C-C



Gusset PL



Section D-D

Section E-E

Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge the project as constructed. Date 2-29-08

- Notes:
- See Sheet 37 for pile anchor details below pile cutoff not shown - similar.

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

DESIGNED BY: K. Miller

CHECKED BY: J. Gaedle

DRAWN BY: C. Fuman

7/26/06

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

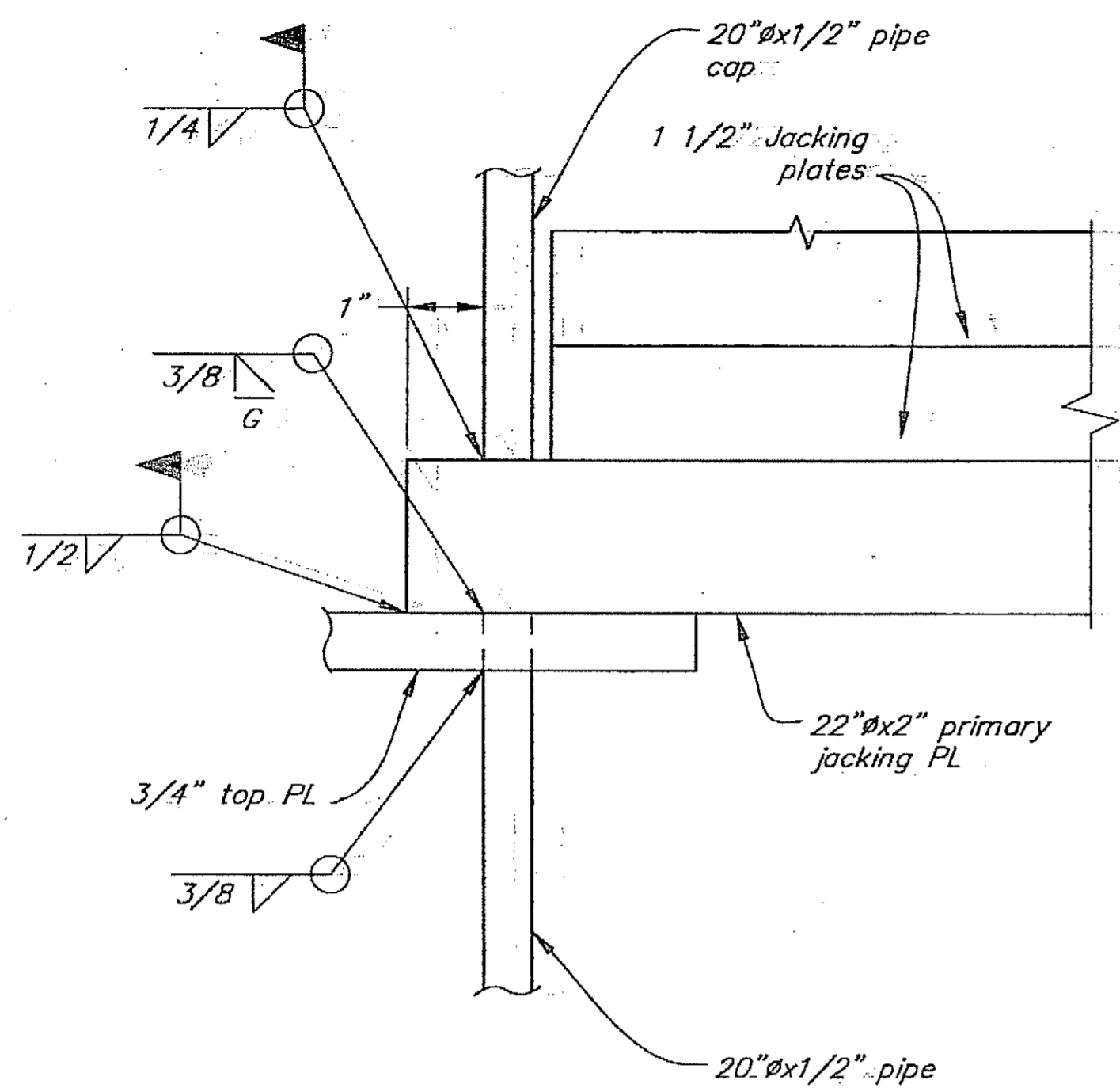
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
& PUBLIC FACILITIES
STATEWIDE DESIGN & ENGINEERING SERVICES DIVISION

Clark Bay Seaplane Facility
Project 67497

Float Restraint
Details 1

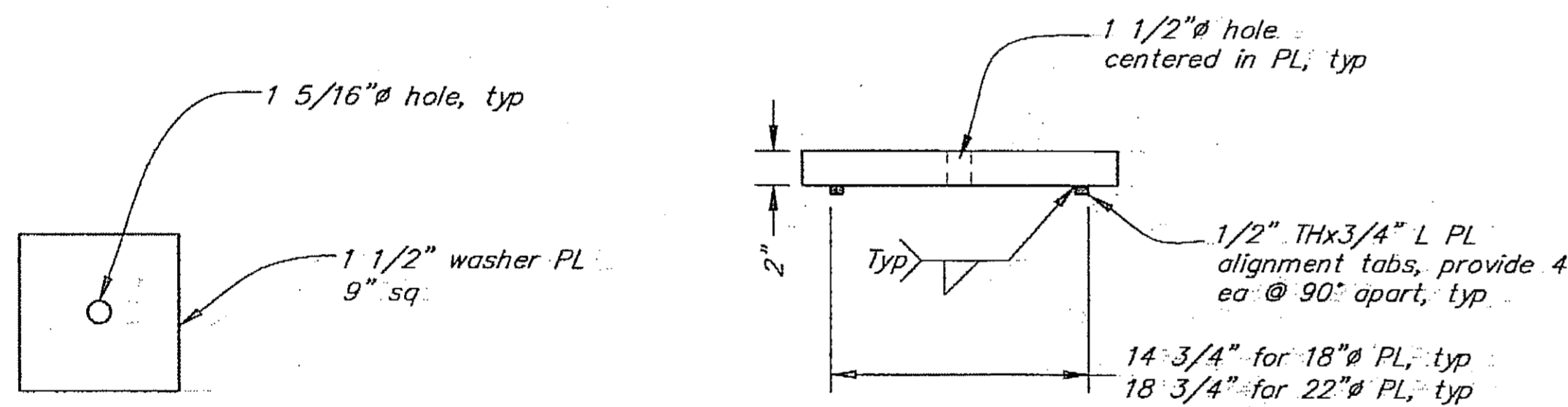
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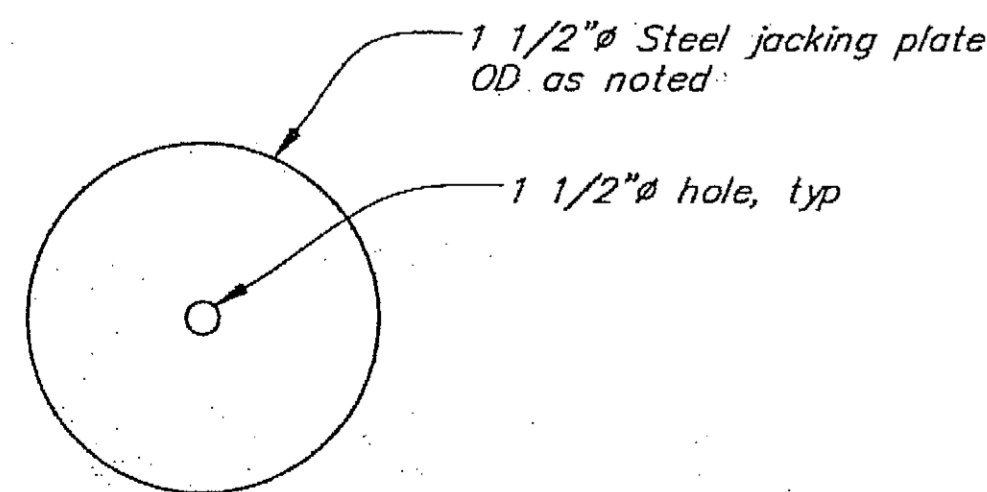


Top Plate Section

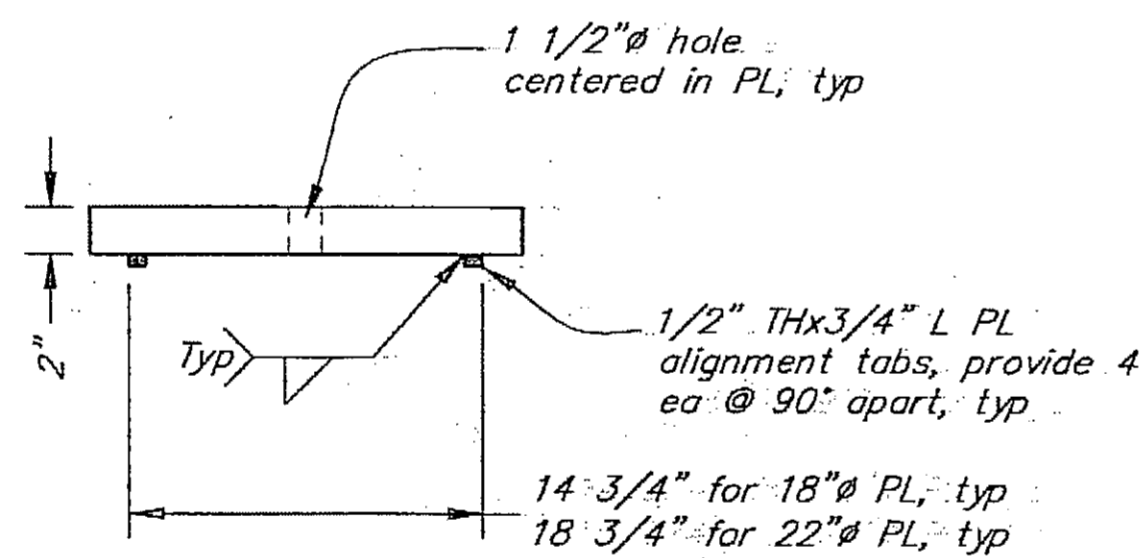
2
38



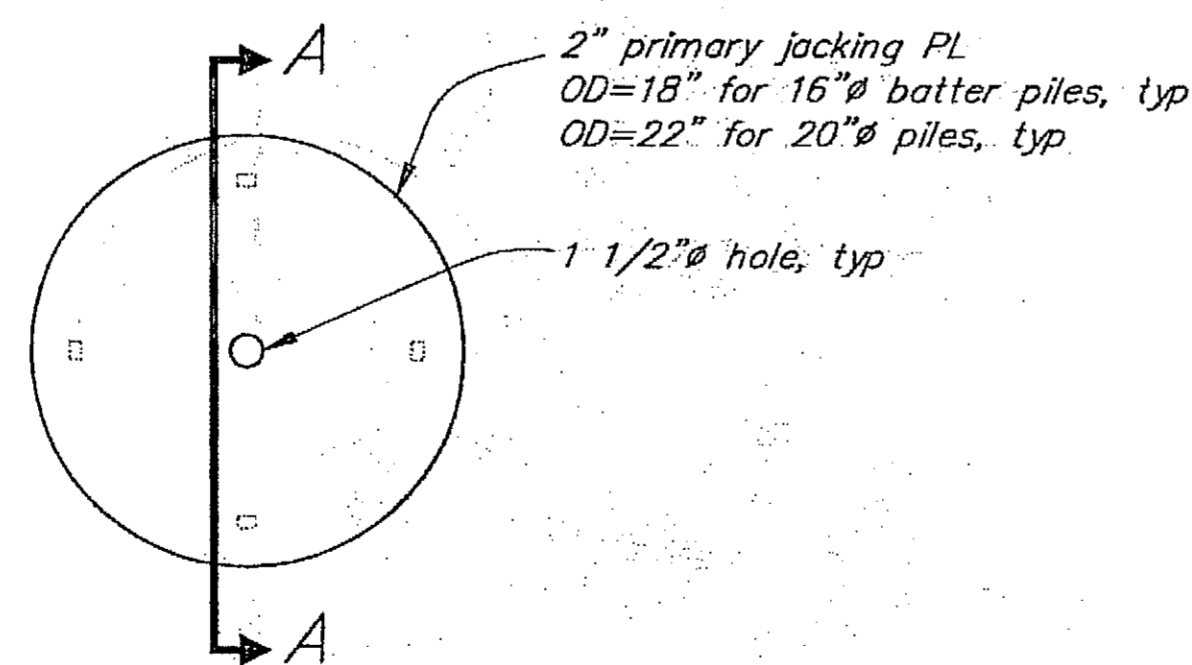
Final Washer Plate Detail



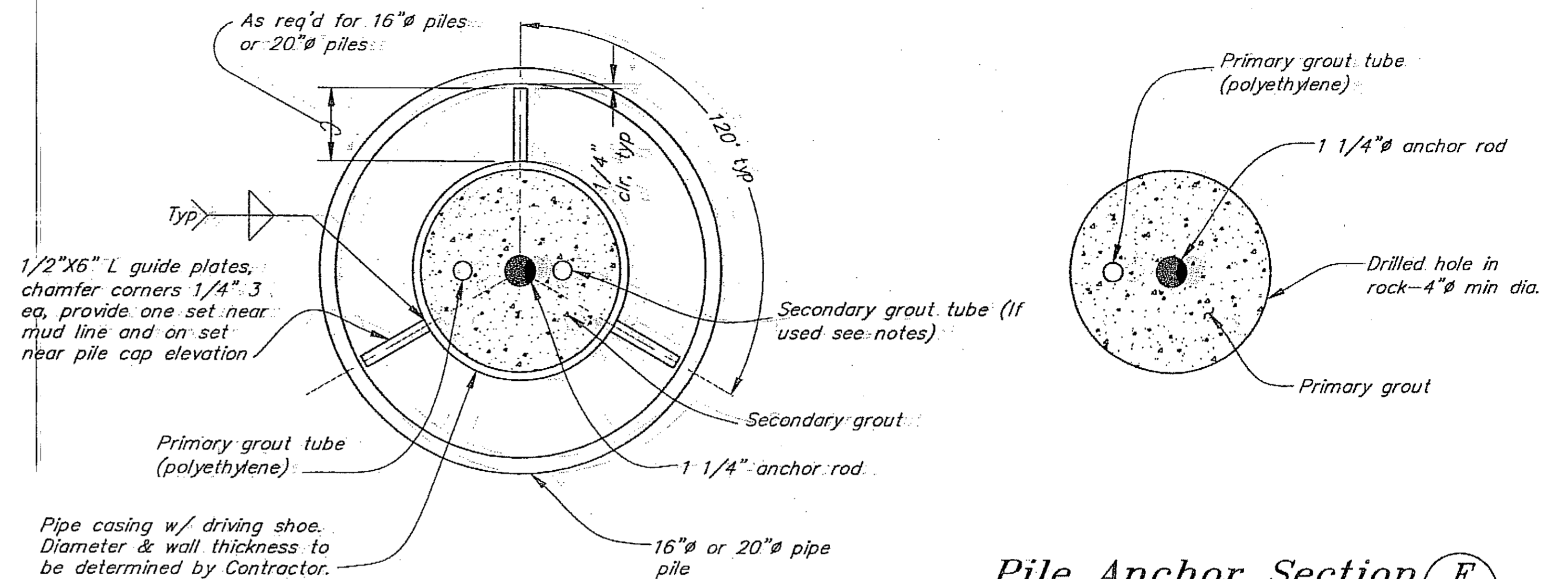
Jacking Plate Detail



Section A-A



Primary Jacking Plate Detail



Pile Anchor Section E

Pile Anchor Section F

Rock Anchor Notes:

General

1. See pile table (Sheet 4) and specifications for elevations and other anchoring requirements not noted.
2. Anchoring details and methods shown on the plans are a suggested procedure only. Anchoring methods and materials may be modified at the request of the Contractor to suit field conditions or otherwise if approved in advance of construction by the Engineer.

Materials & Specifications

1. Anchor rods shall be all-thread bar with strength, $F_{pu}=150$ ksi, as manufactured by Williams Form Engineering Corporation or approved equal. Couplings shall be capable of developing the full tensile strength of the bar. Anchor rods shall be equipped with polyethylene centralizers to insure that the anchor rod is centered in the casing and drilled hole.
2. All steel jacking plates shall be ASTM A572, Grade 50.
3. Primary and secondary grout mixtures shall be designed by the Contractor in accordance with recommendations provided by the anchor rod system manufacturer. Grout aggregates shall be import materials. Use of locally obtained aggregates will not be permitted. Submit grout mixture designs to the Engineer for approval prior to start of work.
4. Primary and secondary grout tube systems shall be determined by the Contractor in accordance with the anchor rod manufacturers recommendations and the selected grout mixture and type of grout pump. At the Contractors option, secondary grout mixtures may be a slurry cement mixture (3/8" diameter maximum aggregate size) that is placed in the casing without the aid of a secondary grout tube. Submit details of intended placement procedures to the Engineer for approval.

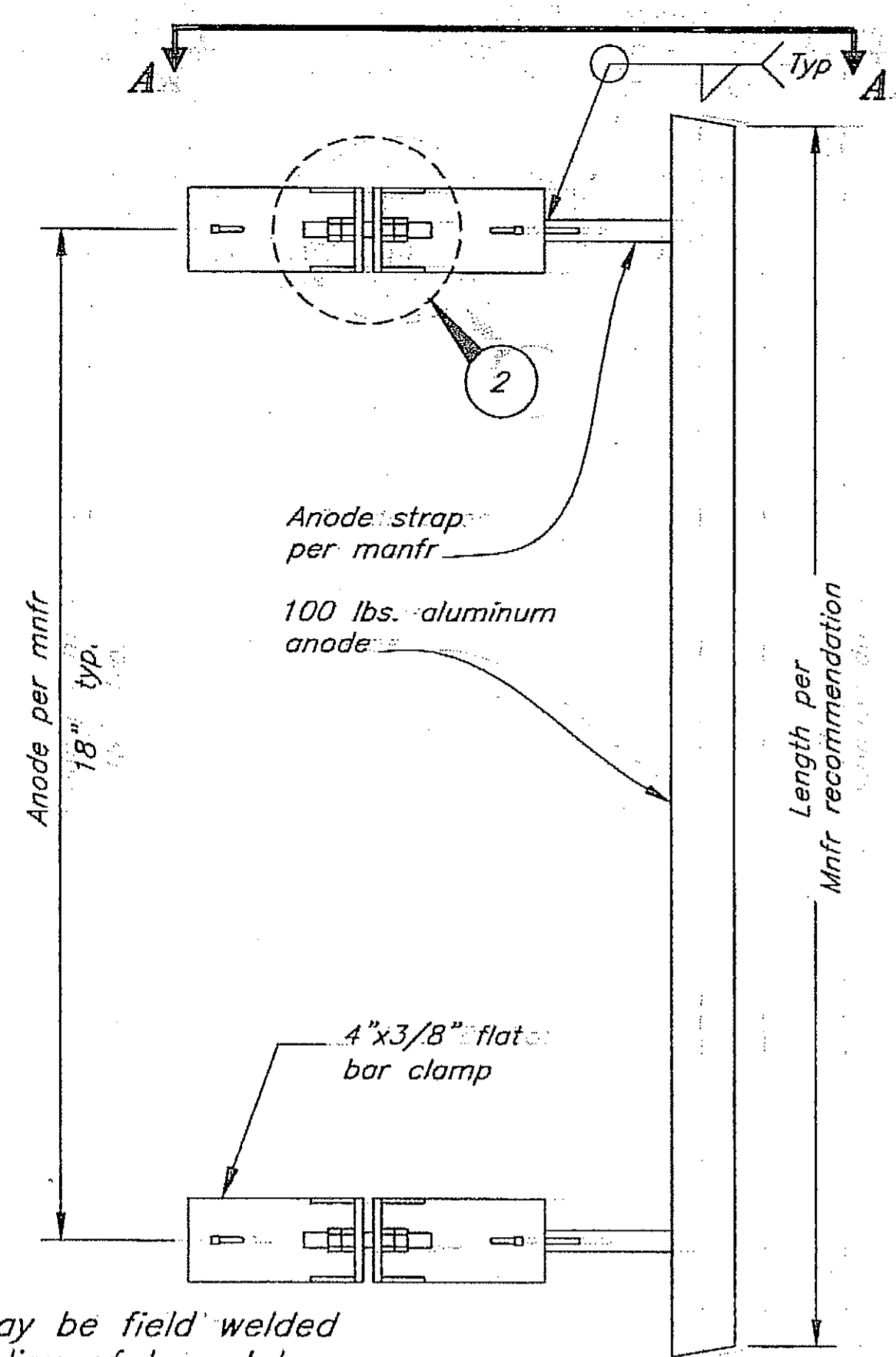
Suggested Dolphin/Anchor Placement and Tensioning Procedure

1. Drive vertical dolphins/pile to practical refusal. Place pile cap/batter chute assembly. Drive batter piles to practical refusal. Seat all piles into competent bedrock.
2. Measure depth to bedrock at each pile location. Field attach upper casing guide plates at correct vertical position. Drive casing to surface of bedrock.
3. Drill hole through casing and into bedrock to the minimum specified depth. Clean out all debris inside hole by flushing with water and air.
4. Place anchor rod and primary (and secondary if used) grout tube assemblies into casing/drilled hole.
5. Place primary grout with pump. Volume of primary grout shall be measured to insure that the primary grout fills the drilled hole in rock. Allow grout to adequately cure to specified test strength.
6. Place jacking and final washer plates and proof load to uplift values indicated on pile table (Sheet 4). Hold test load for a minimum of 30 minutes in the presence of the Engineer. The Contractor must supply a load cell or other means as may be approved by the Engineer to accurately determine test load.
7. Remove jacking and final washer plates and place secondary grout. Fill entire casing with grout mixture. Place primary and secondary jacking plates and tension to 10 kips final load value - prior to secondary grout setup. Install lock off nut and complete finish welding, etc. for pile cap assembly.

Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge, the project as constructed.
PE, K. Miller Date 2-28-08

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

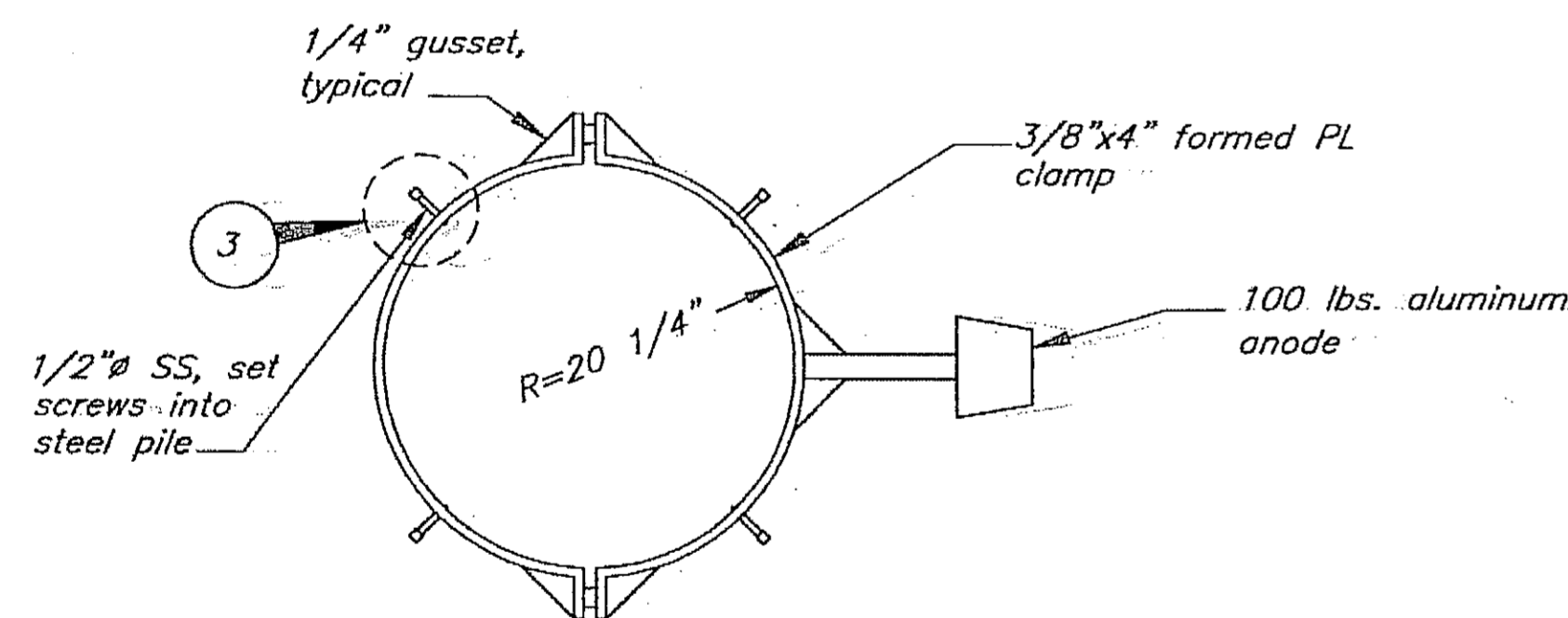
DESIGNED BY: K. Miller		STATE OF ALASKA DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES STATEWIDE DESIGN & ENGINEERING SERVICES DIVISION			
		Clark Bay Seaplane Facility Project 67497			
CHECKED BY: J. Beadle		Float Restraint Details 2			
DRAWN BY: C. Fuman		7/26/06			
PATH: Q:\Paw\67497\MF\Plans\39-Float Restraint Details 2.dwg		PROJECT DESIGNATION			
PLOT: PSPAGE 1=1 Tab: Details (3)		YEAR			
		SHEET NO.			
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		39			
		43			



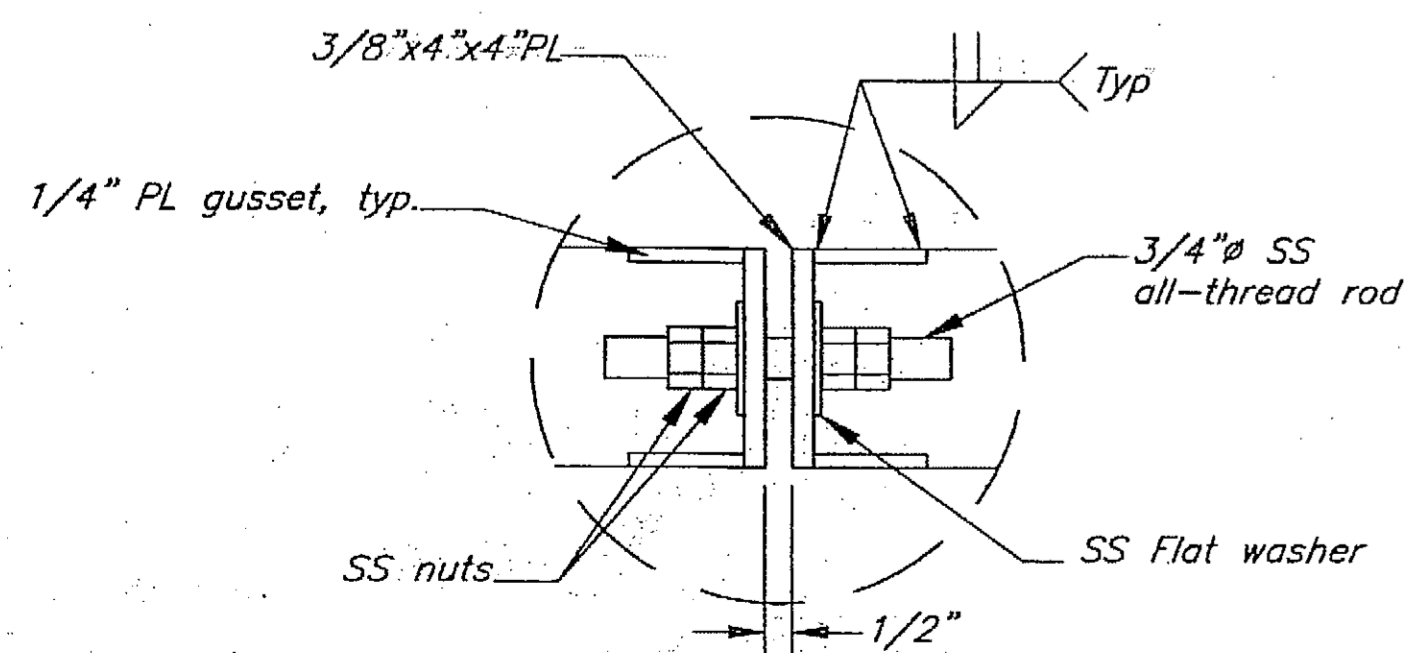
NOTE:
Anodes may be field welded to pile in lieu of bracelet.

Anode Bracelet Detail

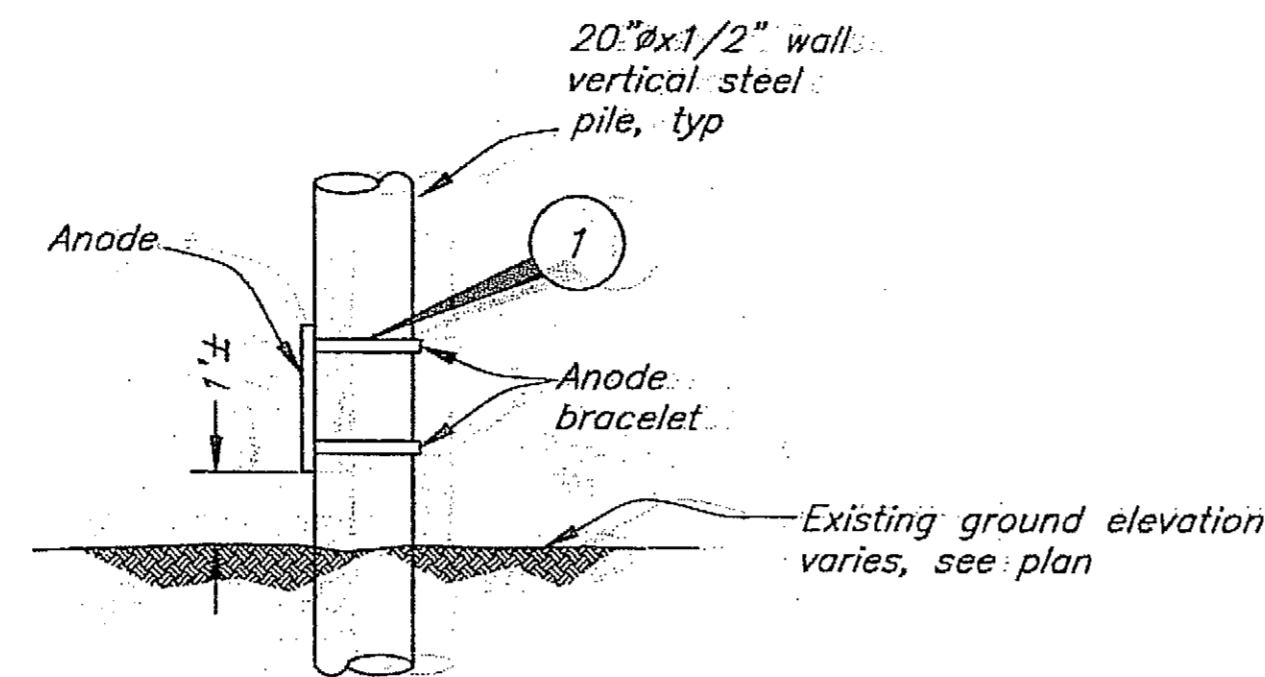
Float Restraint Vertical Piles
(4 ea. required)



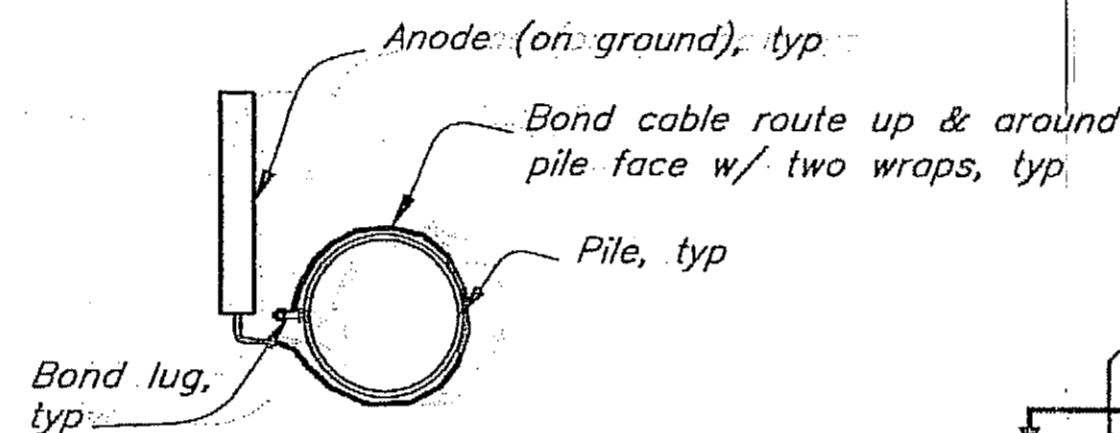
Section A-A



Clamp Connection Detail



Float Pile Anode Detail



Section B-B

Elev. = +8.0', typ.

Bond lug, typ. see detail

16" vertical or batter pile

1/4" SS bond cable w/ swagged eyes both ends (see connection details), wrap around pile, typ.

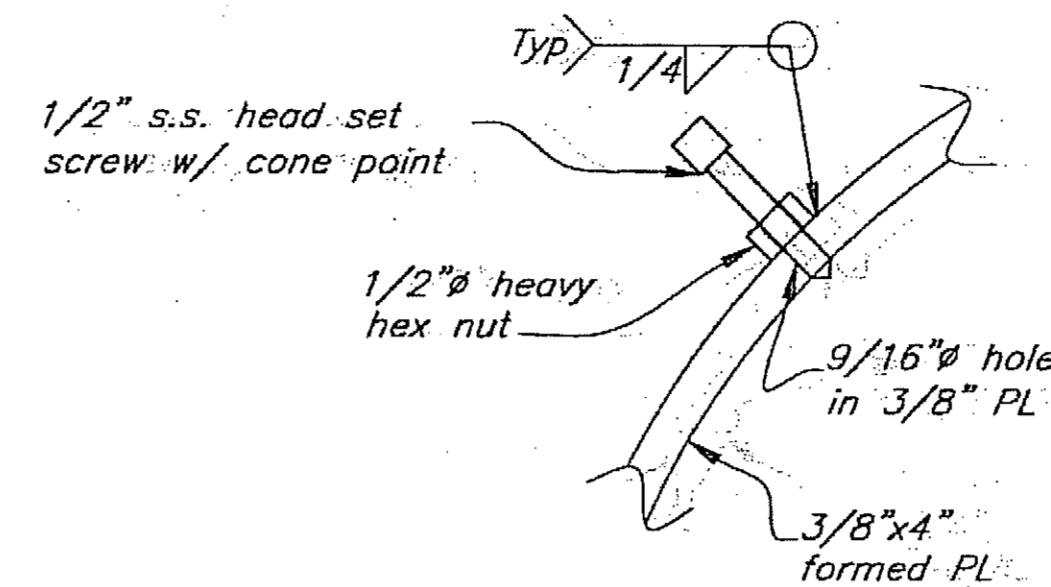
100 lb anode on ground, typ.

Mudline elev varies, see plan

Note:
Install anode on vert trestle piles, Bents 2-6 & batter piles at Bent 6 & float restraint batter piles.

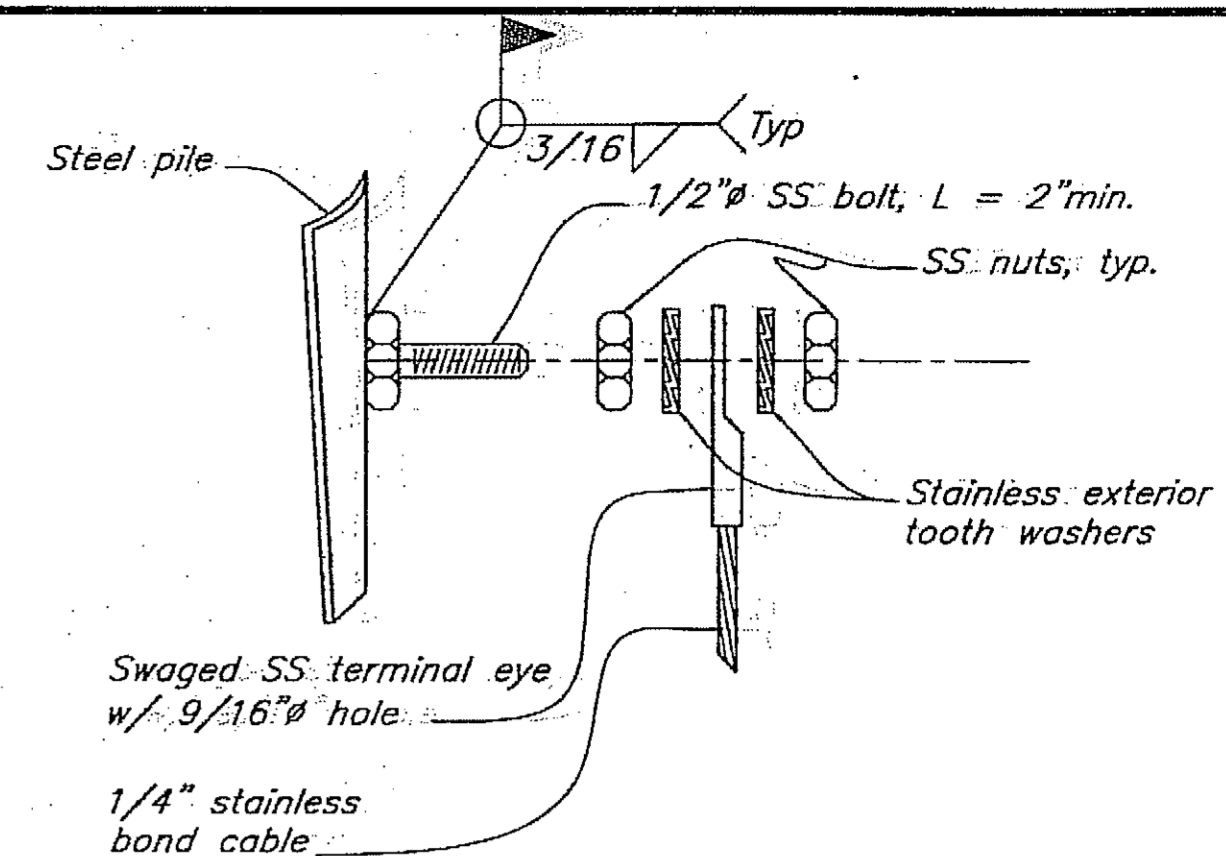
Trestle Pile & Float Batter Pile Anode Detail

(14 ea. required)



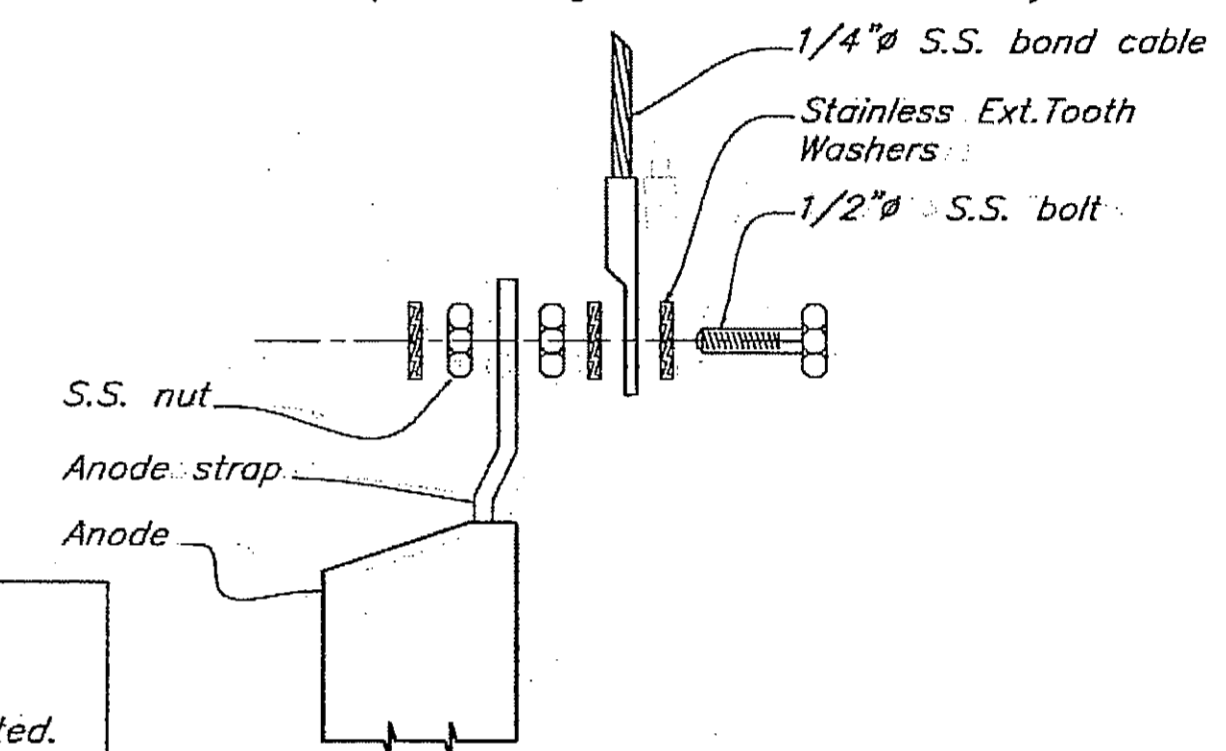
Set Screw Detail

3

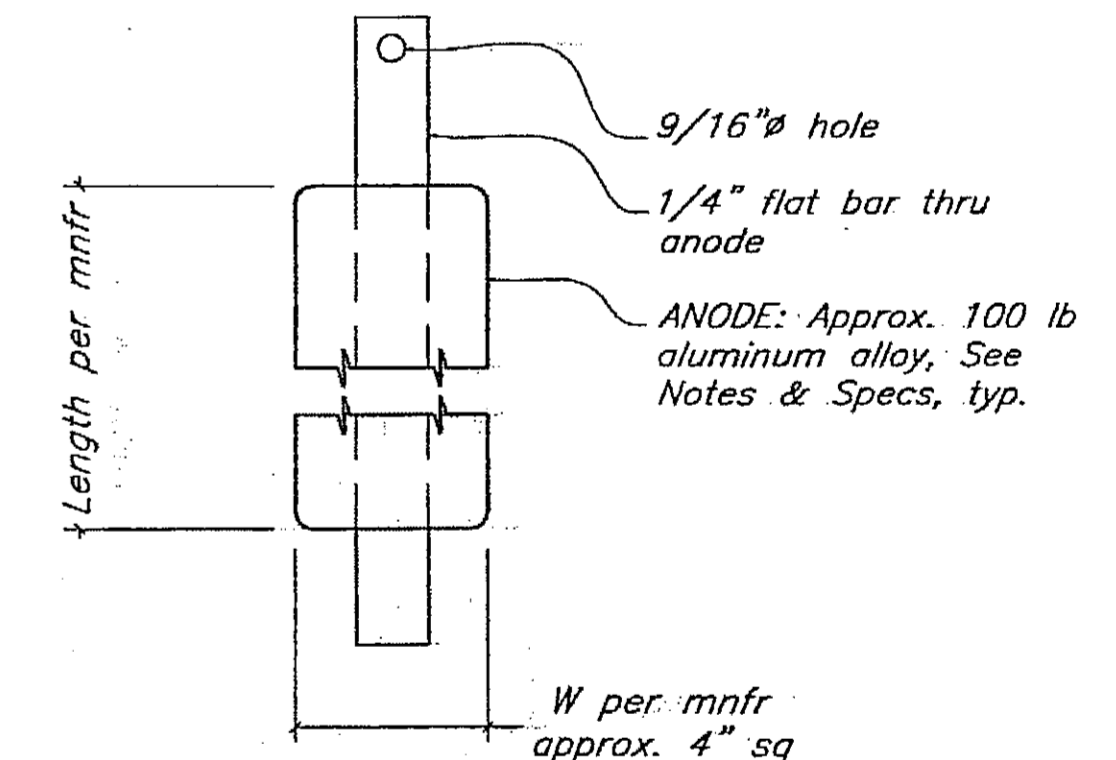


Detail Bond Lug Connection

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



Detail Anode & Cable Connection



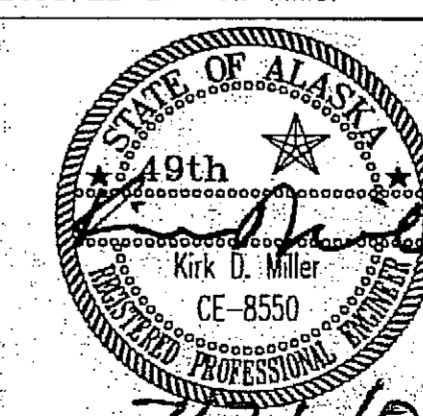
Detail Anode

General Notes:

- Anode connection details may vary from those indicated. Submit alternate details to the Engineer for approval.
- Standard swagged fittings for bond cables may be replaced with 1/4" SS plate w/ 9/16" hole for direct connection to 1/2" bond lugs on piles (cad-weld 1/4" SS cable directly to plate in lieu of swagged fitting & 1/2" bolts).
- Anode materials shall be aluminum alloy conforming to the following minimum requirements:
Current capacity = 1100 amp hours/lb
Efficiency = 85%
Min Voltage Potential = 1.1 Volts (CU/CU reference electrode in seawater).
- Dimensions of anodes shall be determined by the manufacturer.
- Unless otherwise noted, of bond cables, bond lugs, fastener plates and connection hardware shall be stainless steel. Type 316. Cables shall be sheathed in plastic tubing.
- Repair of field welds and damaged coatings in accordance with Section 504 of the Contract Specifications.

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

DESIGNED BY: K. Miller



Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge, the project as constructed.
Date 2-28-09

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

Clark Bay Seaplane Facility
Project 67497

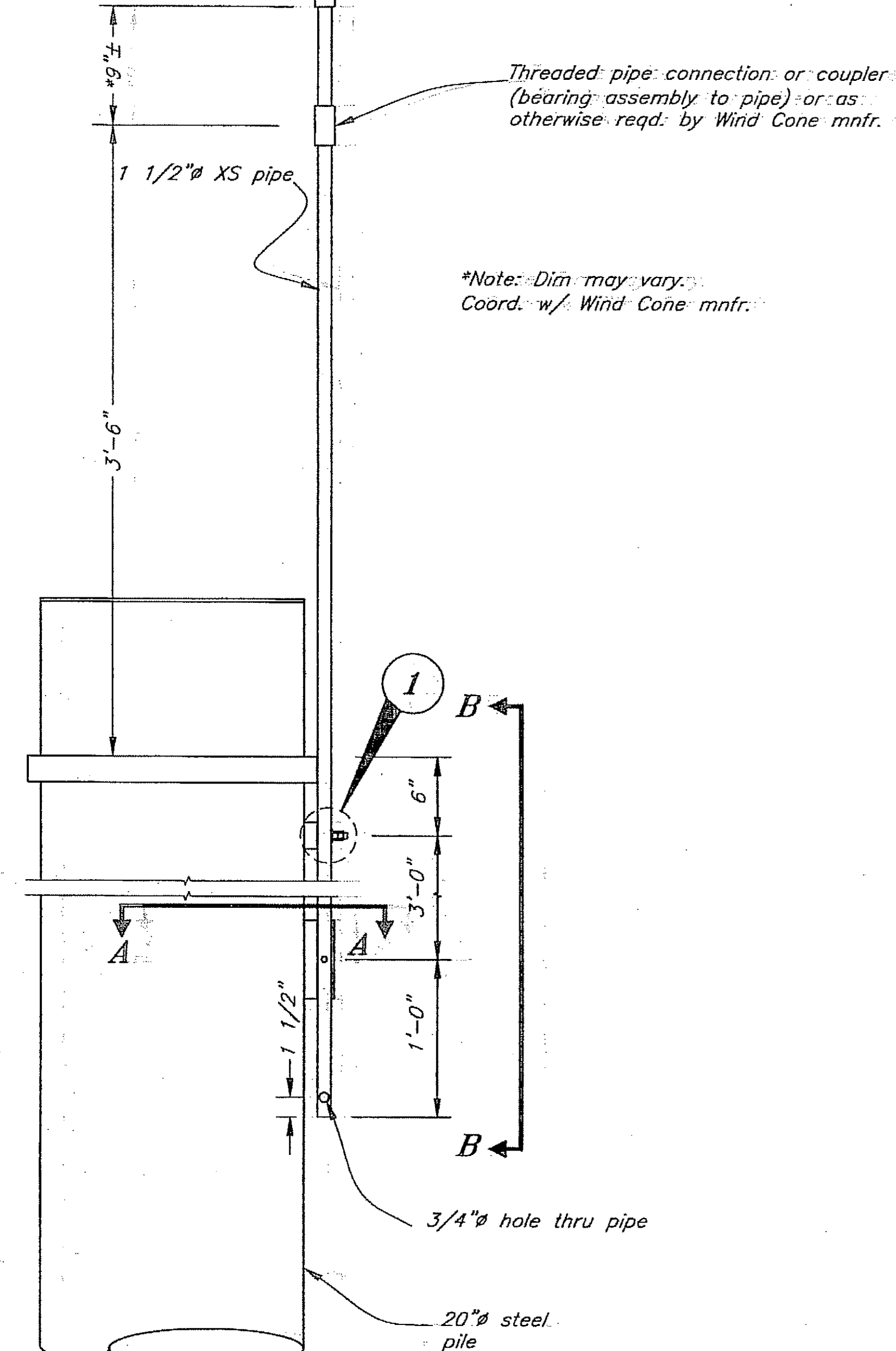
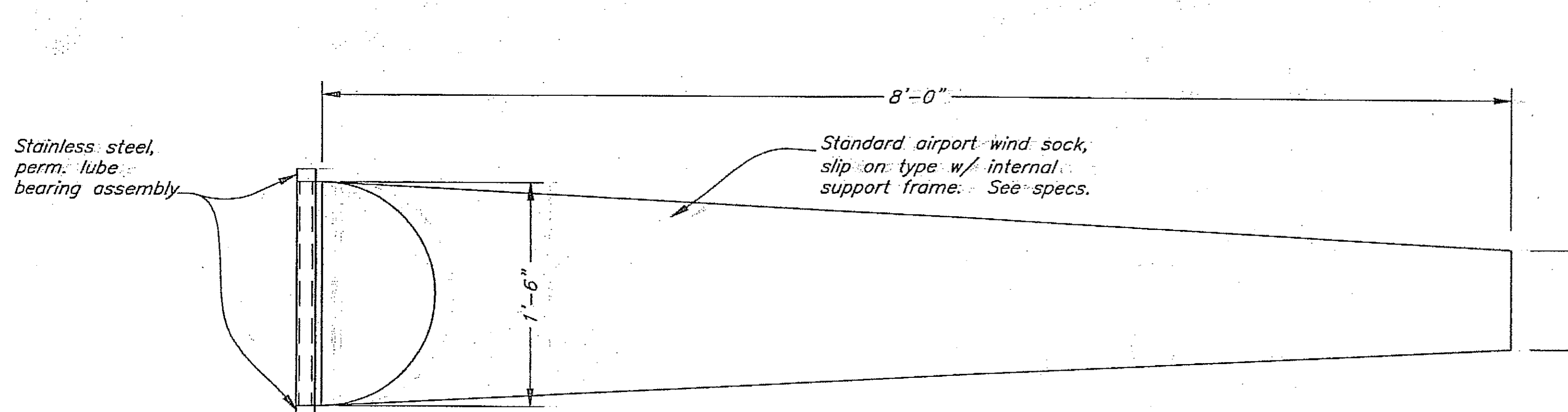
Anode Details

CHECKED BY: J. Beadie
DRAWN BY: C. Fuman/Staff

PATH: Q:\Pspw\67497\MF\Planset\40-Anode & Pile Details.dwg
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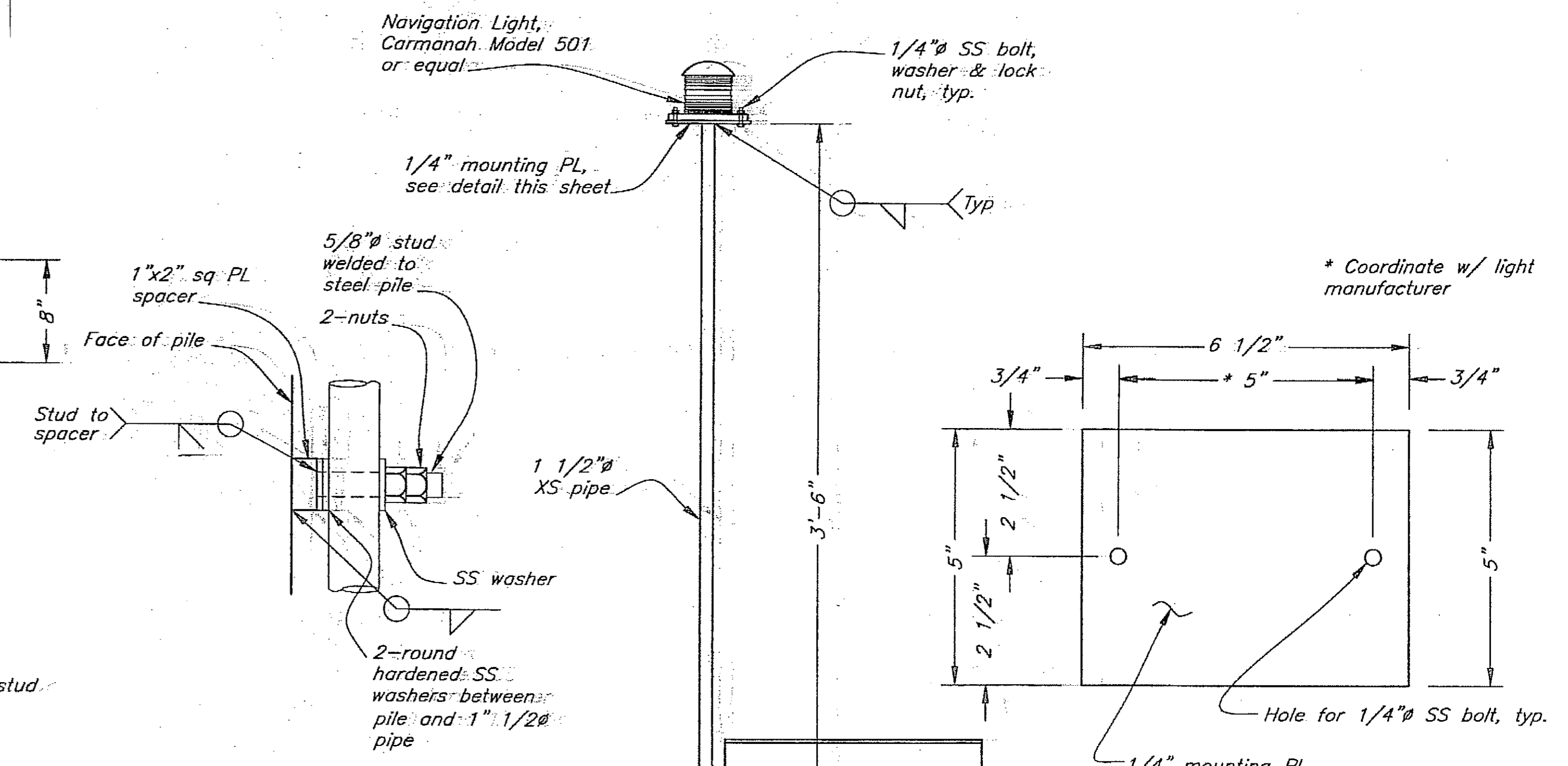
Wed, 26/Jul/06 09:56AM

REVISIONS		PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS	
NO.	DATE					DESCRIPTION
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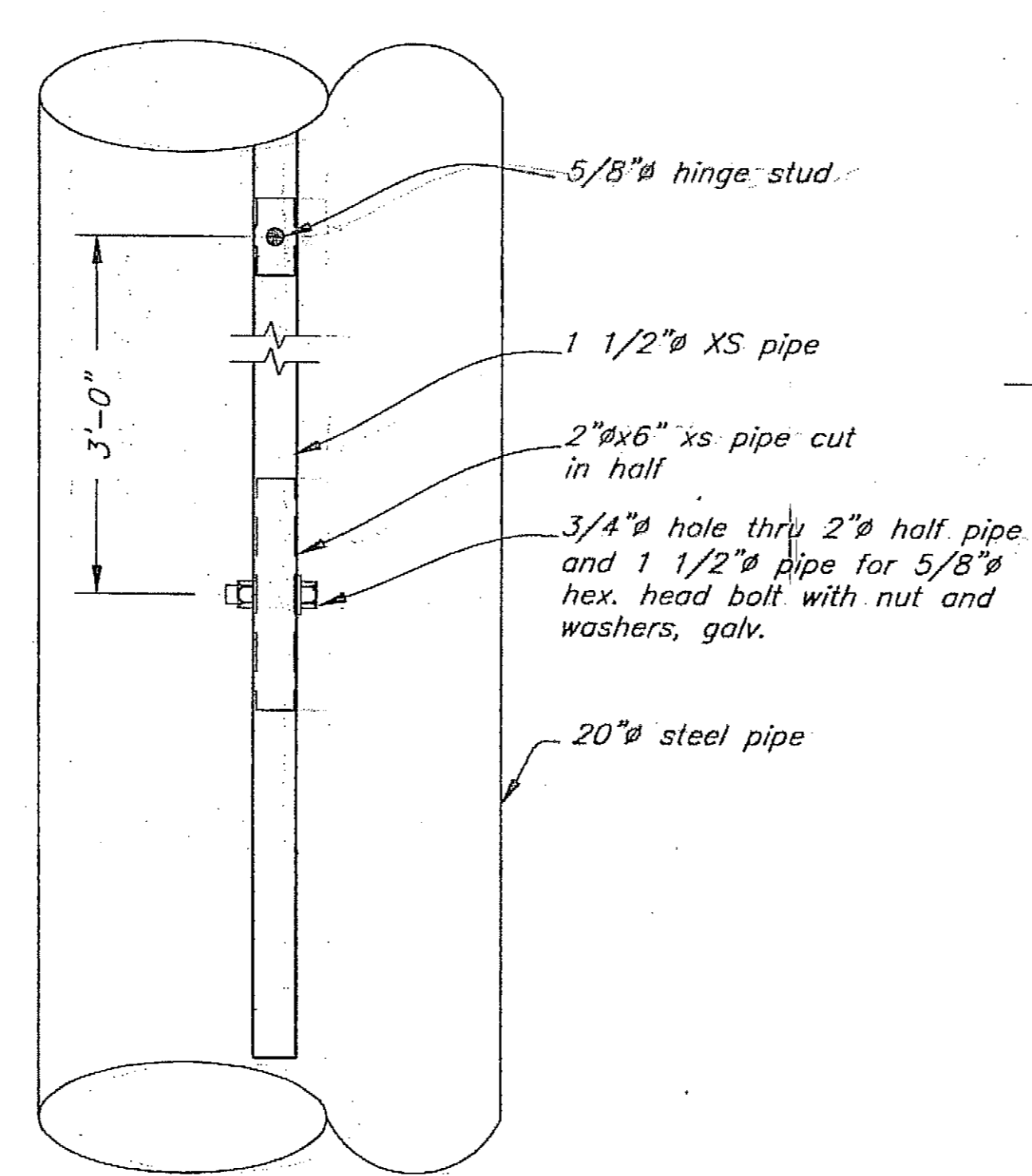
*Note: Dim may vary. Coord. w/ Wind Cone mnfr.

Wind Cone Detail
1 Req'd - see Sheet 37 for location

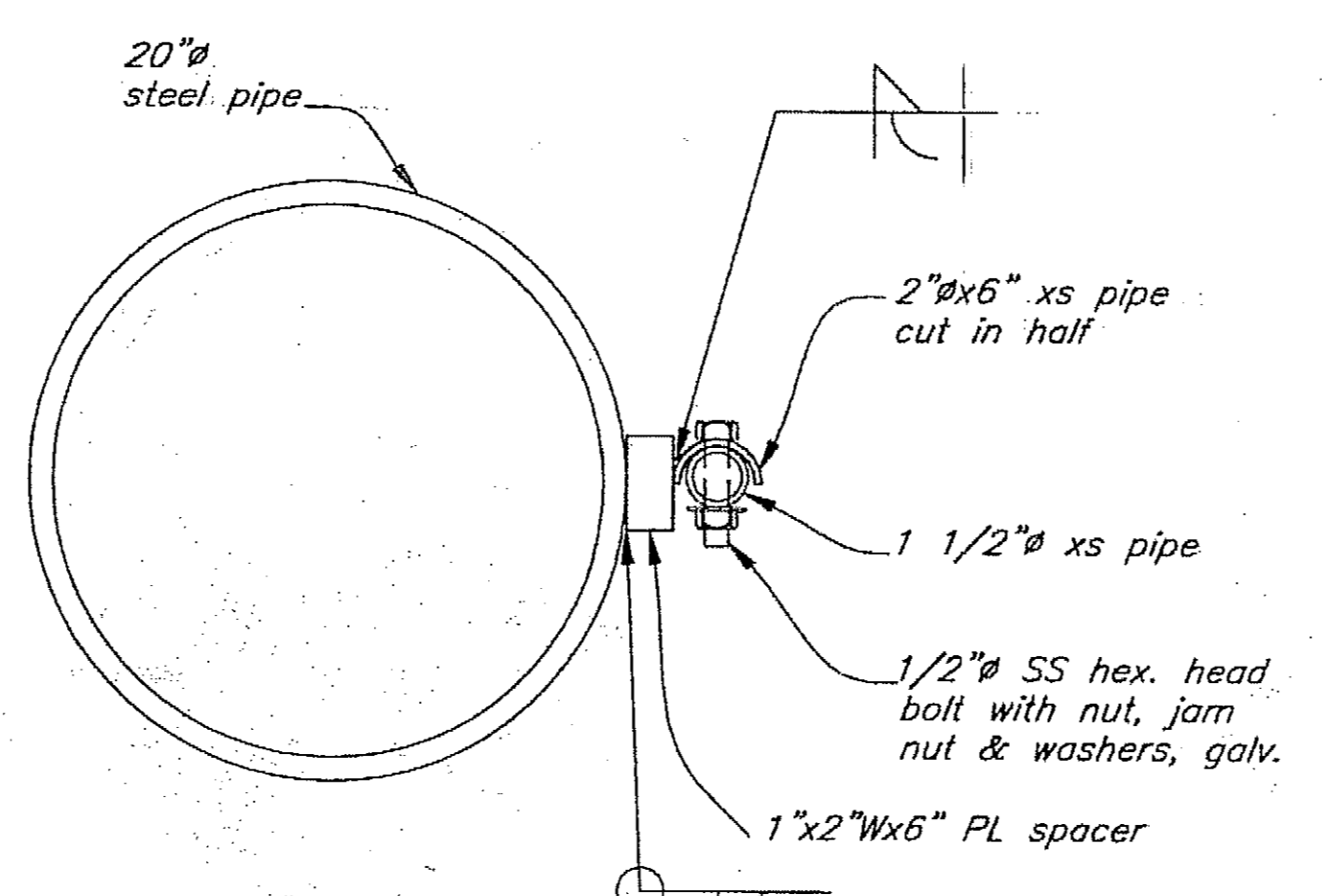


Detail 1

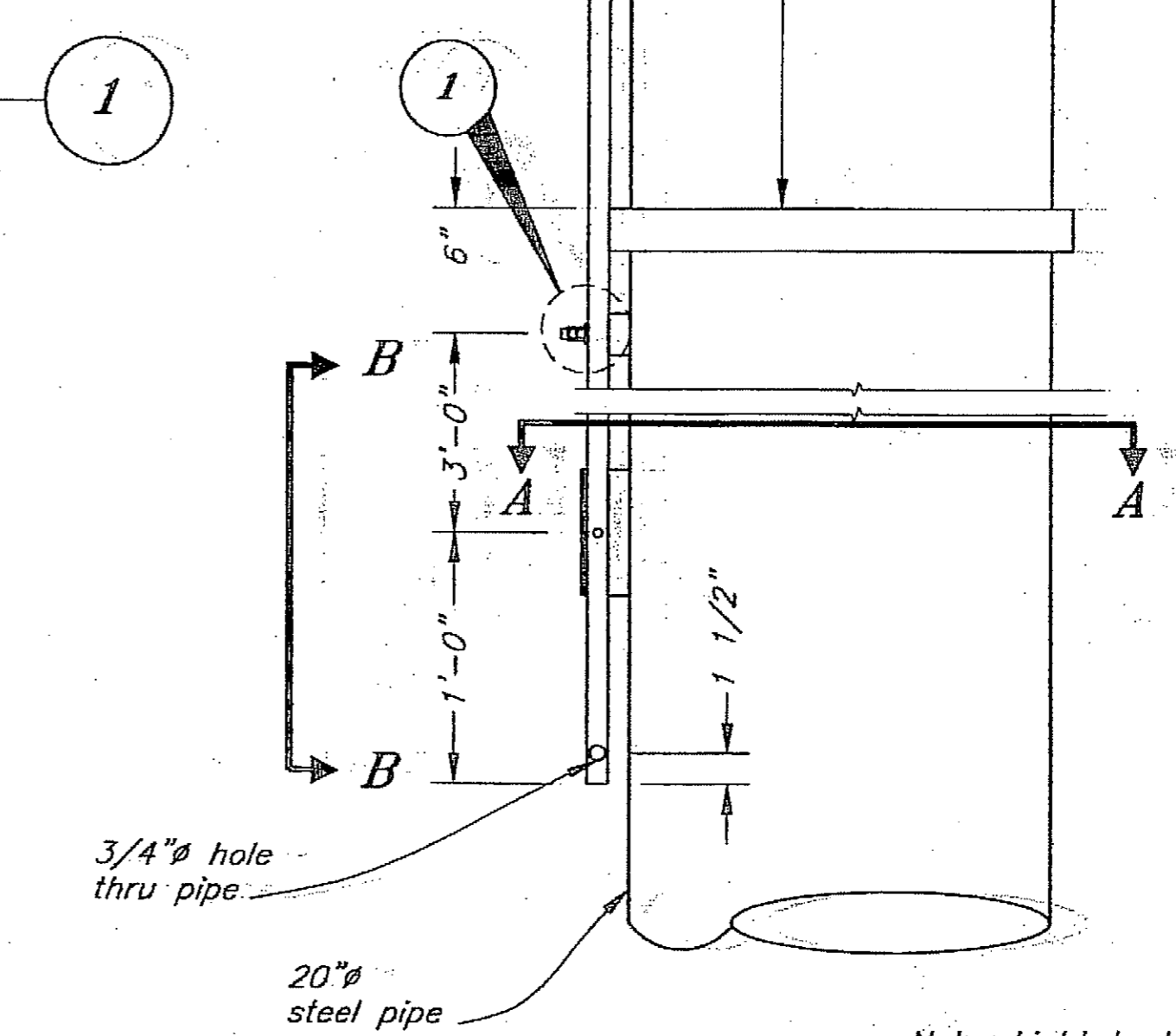
Navigation Light Mounting PL



Section B-B



Section A-A



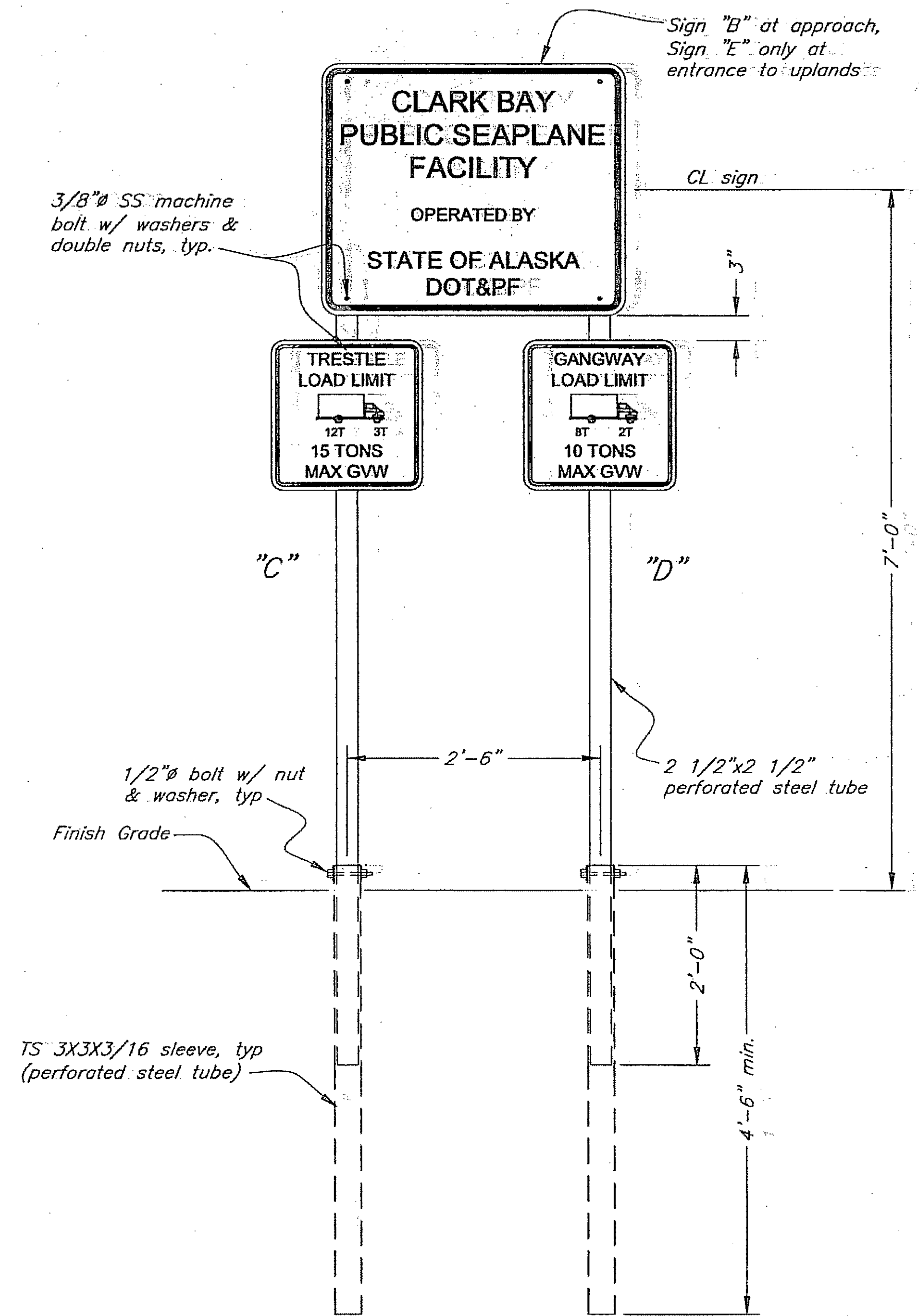
Navigation Light Detail-Front Elevation
1 Req'd - See sheet 37 for location

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

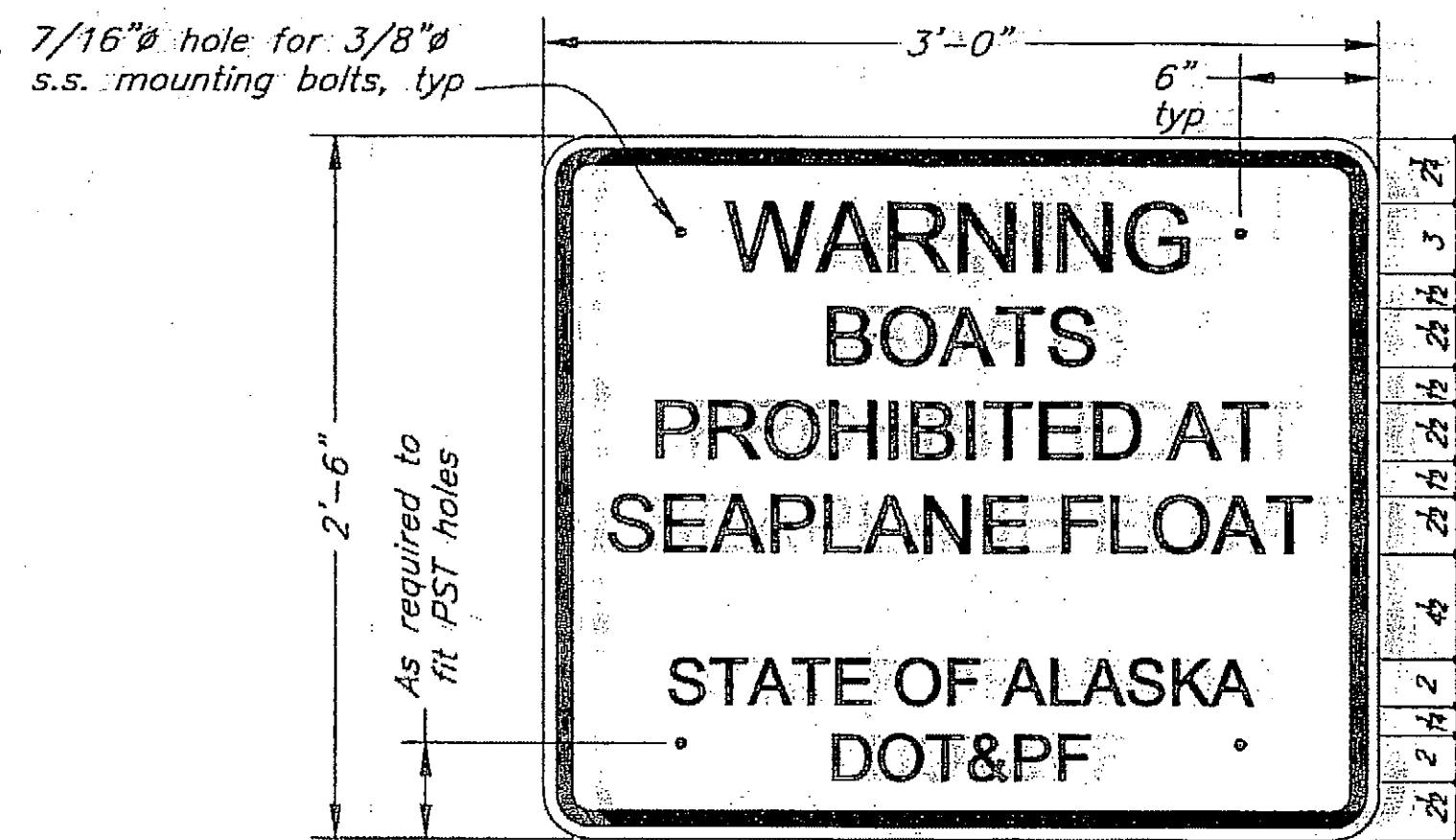
Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge, the project as constructed.
Date: 2-22-08
PE: [Signature]

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

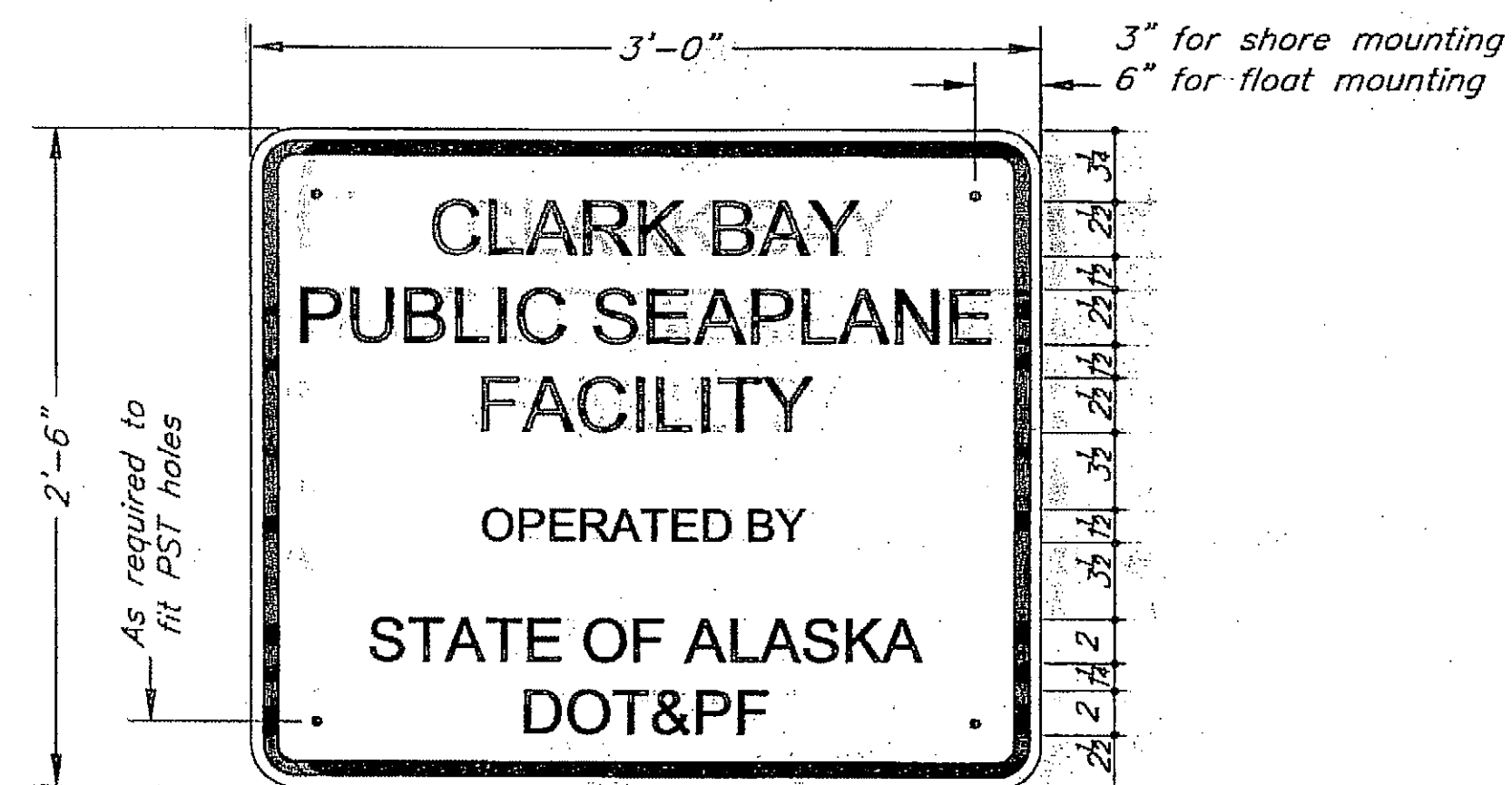
DESIGNED BY: K. Miller		STATE OF ALASKA DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES STATEWIDE DESIGN & ENGINEERING SERVICES DIVISION			
		Clark Bay Seaplane Facility Project 67497			
CHECKED BY: J. Beedle		Wind Cone & Navigation Light Details			
DRAWN BY: C. Fuman					
PATH: G:\Pow\67497\W\PlanSet\41-Wind Cone & Nav Lights.dwg					
PLOT: PSPACE: 1=1 Tab: Layout 1		Wed, 26/Jul/06 09:56AM			
REVISIONS		PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
NO.	DATE	DESCRIPTION			
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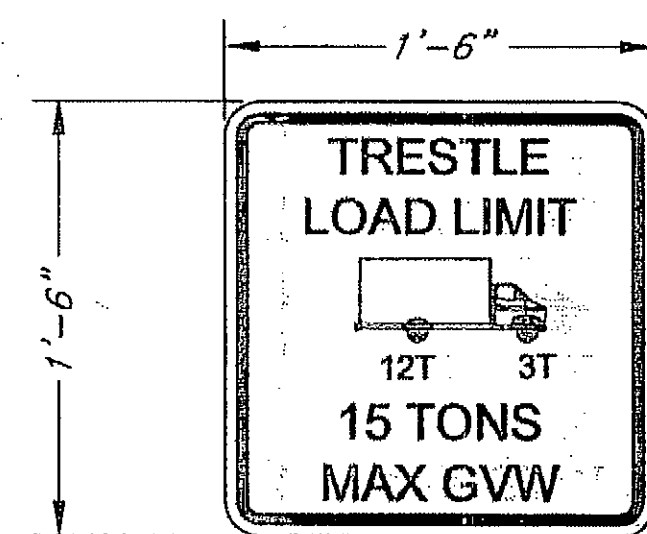
Sign Mounting at Upland Entrance & Approach



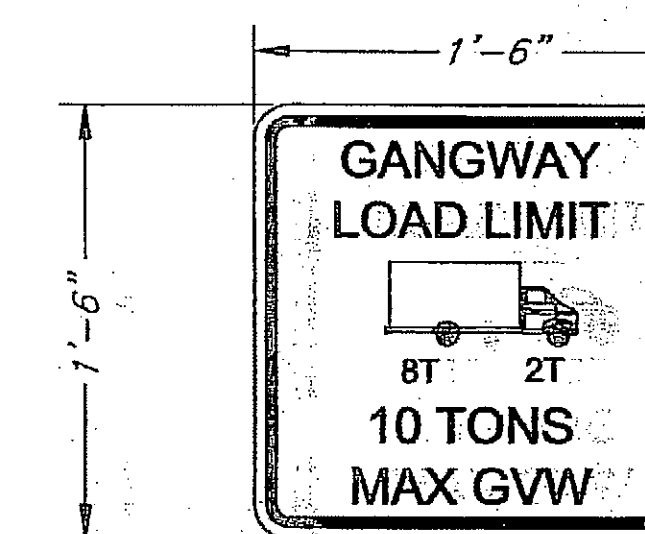
Sign "A"
(1 req'd)



Sign "B"
(2 req'd)



Sign "C"
(1 req'd)



Sign "D"
(2 req'd)



Sign "E"
(1 req'd)

Sign Notes:

- All signs shall have a black legend on white reflective background. All hardware shall be stainless steel.
- Sign lettering shall conform to the size and style as shown in the plans and the Alaska Sign Design Designation (ASDS).
- Install signs "A" & "B" on perforated metal posts that are attached to seaward side pile collars on float. Align signs with top of posts & facing seaward, see Sheets 27 & 36.
- Install signs "B", "C" and "D" near head of trestle on perforated metal posts as noted on detail drawing this sheet. See Sheet 5 for approximate location. Exact location of sign will be designated in the field by the Engineer.
- Install sign "D" on the west side of the seaward trestle end facing traffic (see Sheet 17). 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).
- Install sign "E" near uplands entrance on perforated metal posts as noted on detail drawing this sheet. See Sheet 5 for approximate location. Exact location of sign will be designated in the field by the Engineer.

Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge, the project as constructed.
PE *[Signature]* Date 2-29-08

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

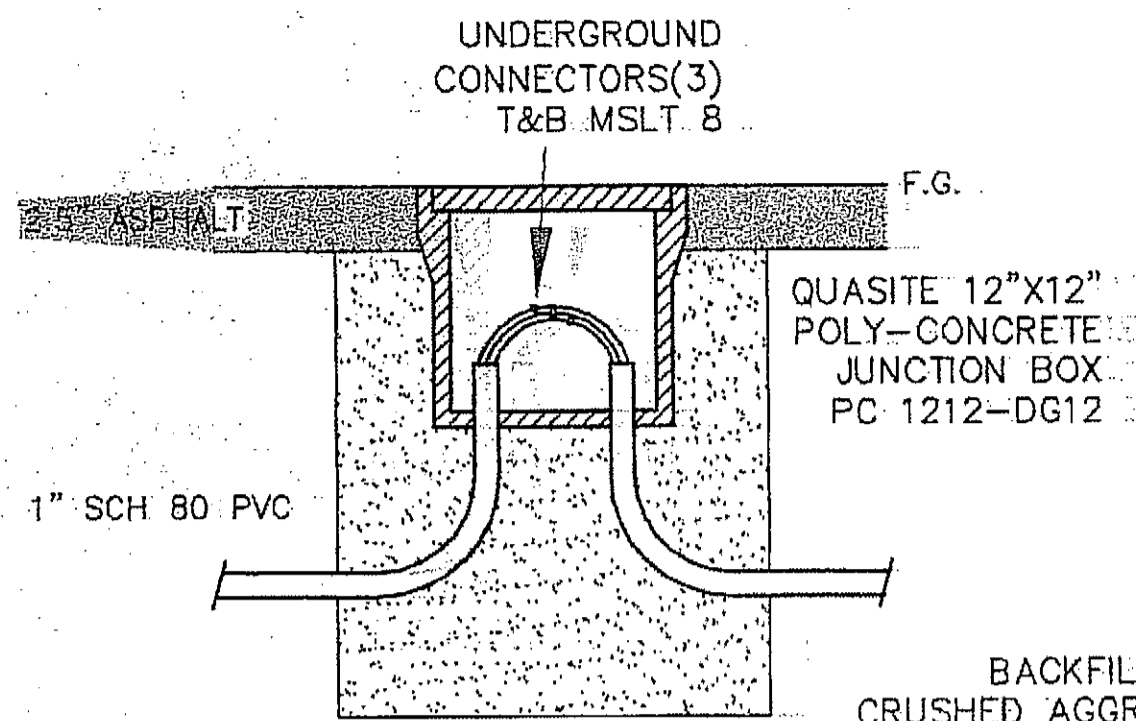
DESIGNED BY: K. Miller		STATE OF ALASKA DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES STATEWIDE DESIGN & ENGINEERING SERVICES DIVISION	
		Clark Bay Seaplane Facility Project 67497	
		Sign Details	
CHECKED BY: J. Beedle	DRAWN BY: Staff	Wed, 26/Jul/06 09:56AM	
PATH: Q:\Pow\67497\MF\Plans\142-Signs.dwg		PROJECT DESIGNATION	
PLOT: PSPACE 1-1 Tab: Layout 1		YEAR	SHEET NO.
REVISIONS		67497	2006 42
NO.	DATE	DESCRIPTION	TOTAL SHEETS
			43

STONCO MCL-3 MH
400 W LUMINAIRE
(IFA FURNISHED)
277 V

LYTECO POLE TOP
ADAPTER
PTA-4SQ-D1

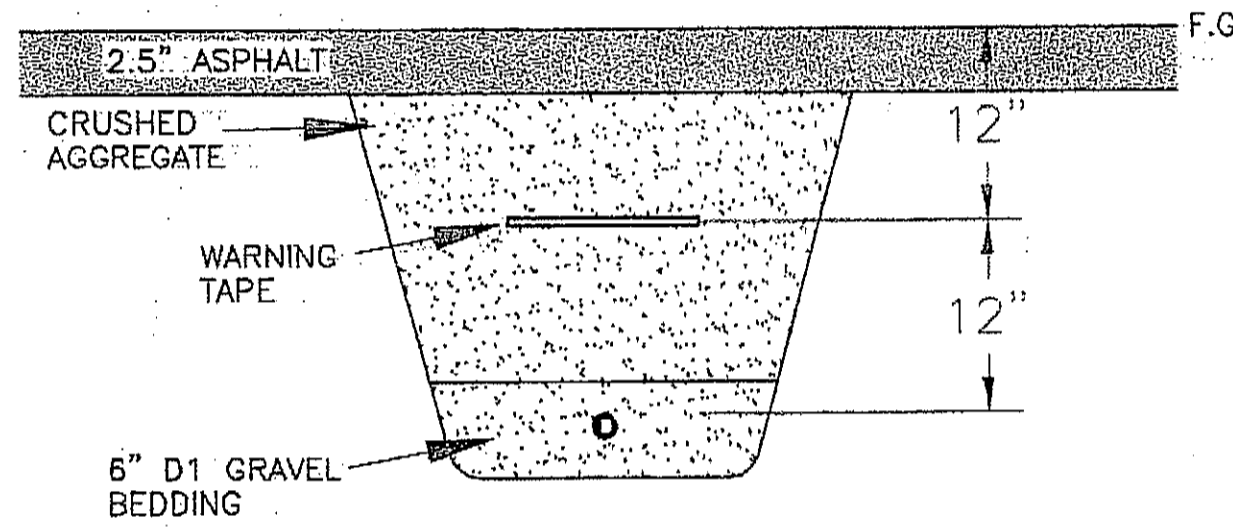
LYTECO 4" SQ STEEL
POLE 25 FT LONG
910-4011-25 (IFA
FURNISHED)

24" DIA. ROUND
PREFABRICATED
REINFORCED
CONCRETE PIER
6 FT LONG
(IFA FURNISHED)



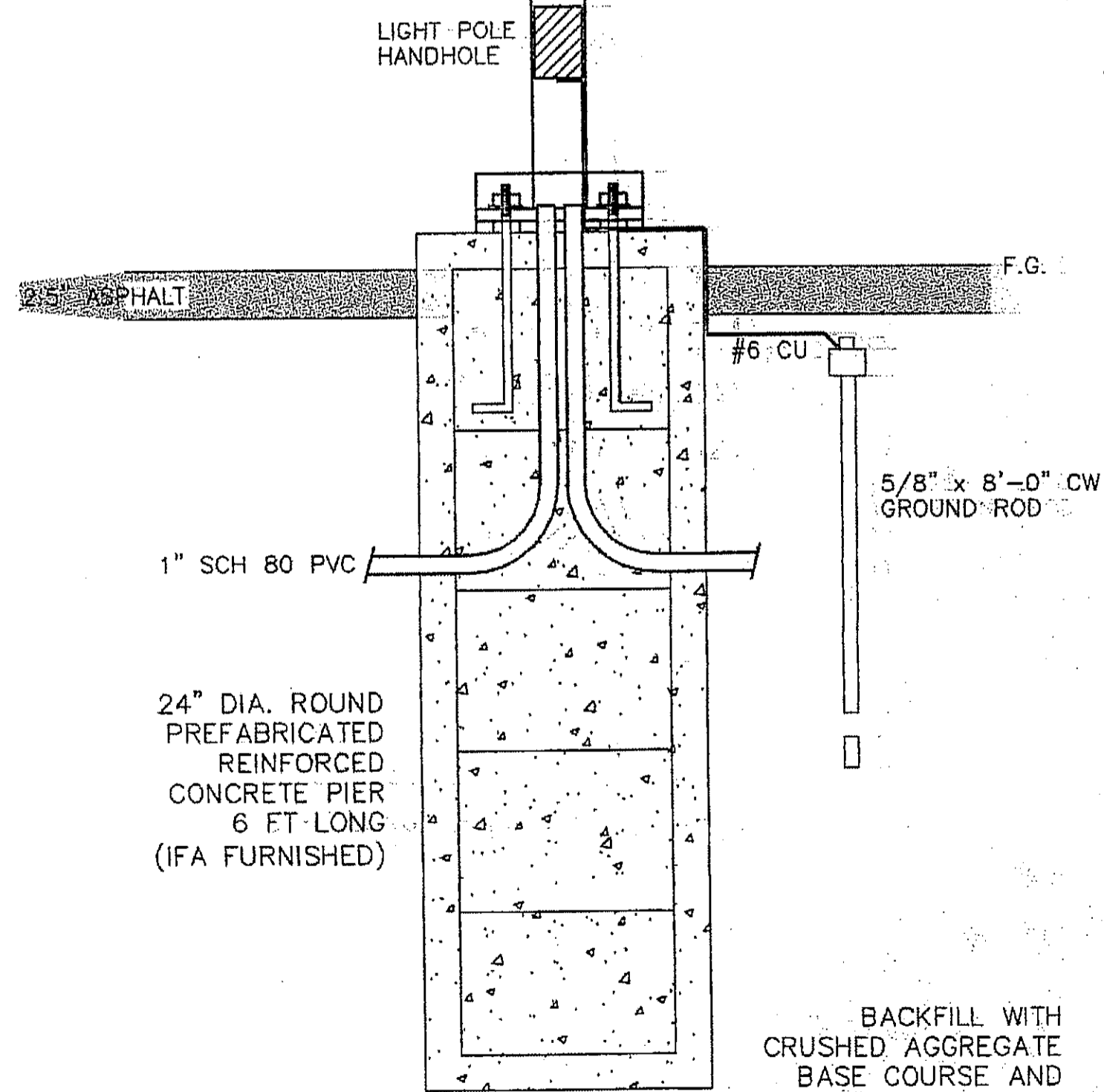
LIGHT CIRCUIT JUNCTION BOX

N.T.S.



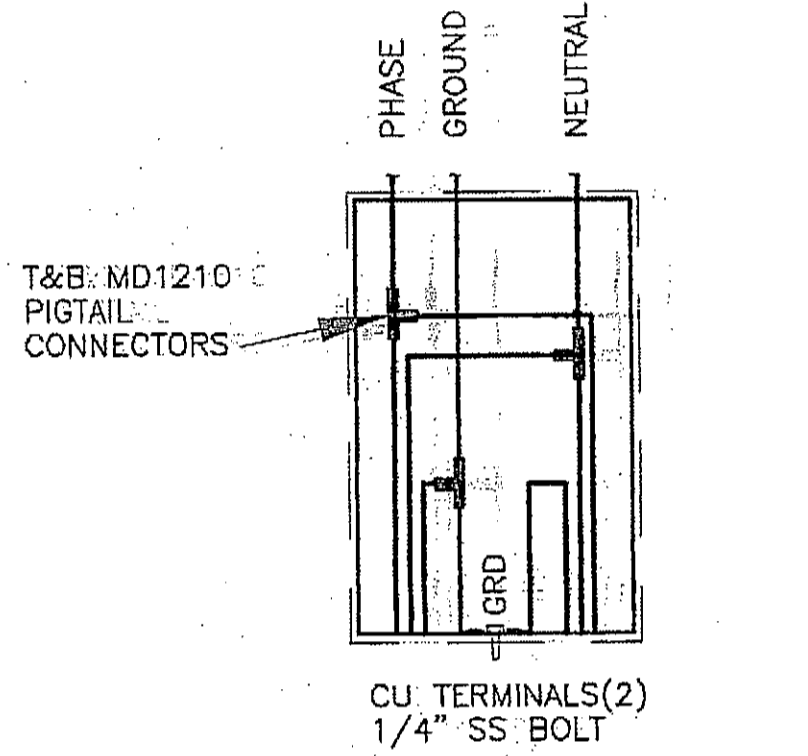
TYPICAL TRENCH BURIAL DETAIL

N.T.S.



AREA LIGHT POLE AND FOUNDATION

N.T.S.



POLE HANDHOLE WIRING

N.T.S.

LUMINAIRE / J-BOX SUMMARY

NO.	STATION	OFFSET	REMARKS
L1	"J" 1+04.91	0.06 RT	New Luminaire
L2	"J" 1+68.14	38.77 RT	New Luminaire
L3	"J" 2+42.34	39.10 RT	New Luminaire
J1	"J" 2+89.98	1.32 RT	New J-Box
L4	"J" 2+88.61	21.23 RT	Re-locate existing luminaire

UPDATED 7/26/2006

LIGHTING CIRCUIT SUMMARY

NO.	LENGTH (ft)	REMARKS
LC1	35	
LC2	100	
LC3	90	
LC4	90	
TOTAL =	315	

UPDATED 7/26/2006

GENERAL LIGHTING NOTES:

- SEE SHEET 05 FOR THE PLAN LOCATION OF LIGHTING FACILITIES. MATERIALS FURNISHED BY THE INTER-ISLAND FERRY AUTHORITY ARE NOTED. ALL OTHER MATERIALS ARE CONTRACTOR FURNISHED.
- ALL LIGHTING CIRCUIT CONDUCTORS SHALL BE #10 COPPER XHHW. ALL MATERIALS AND INSTALLATION SHALL CONFORM TO THE REQUIREMENTS OF THE NATIONAL ELECTRICAL CODE, 2005 EDITION AND THE UNDERWRITERS LABORATORIES.
- EACH NEW POLE SHALL BE FITTED WITH POLE TOP APAPTER FOR A SINGLE STONCO MCL LUMINAIRE.
- EACH LIGHTING CIRCUIT CONSISTS OF THE FOLLOWING MATERIAL: 1" SCHEDULE 80 PVC CONDUIT AND 3-#10 COPPER XHHW CONDUCTORS.
- SEE SECTION 662 FOR ELECTRICAL SPECIFICATIONS.

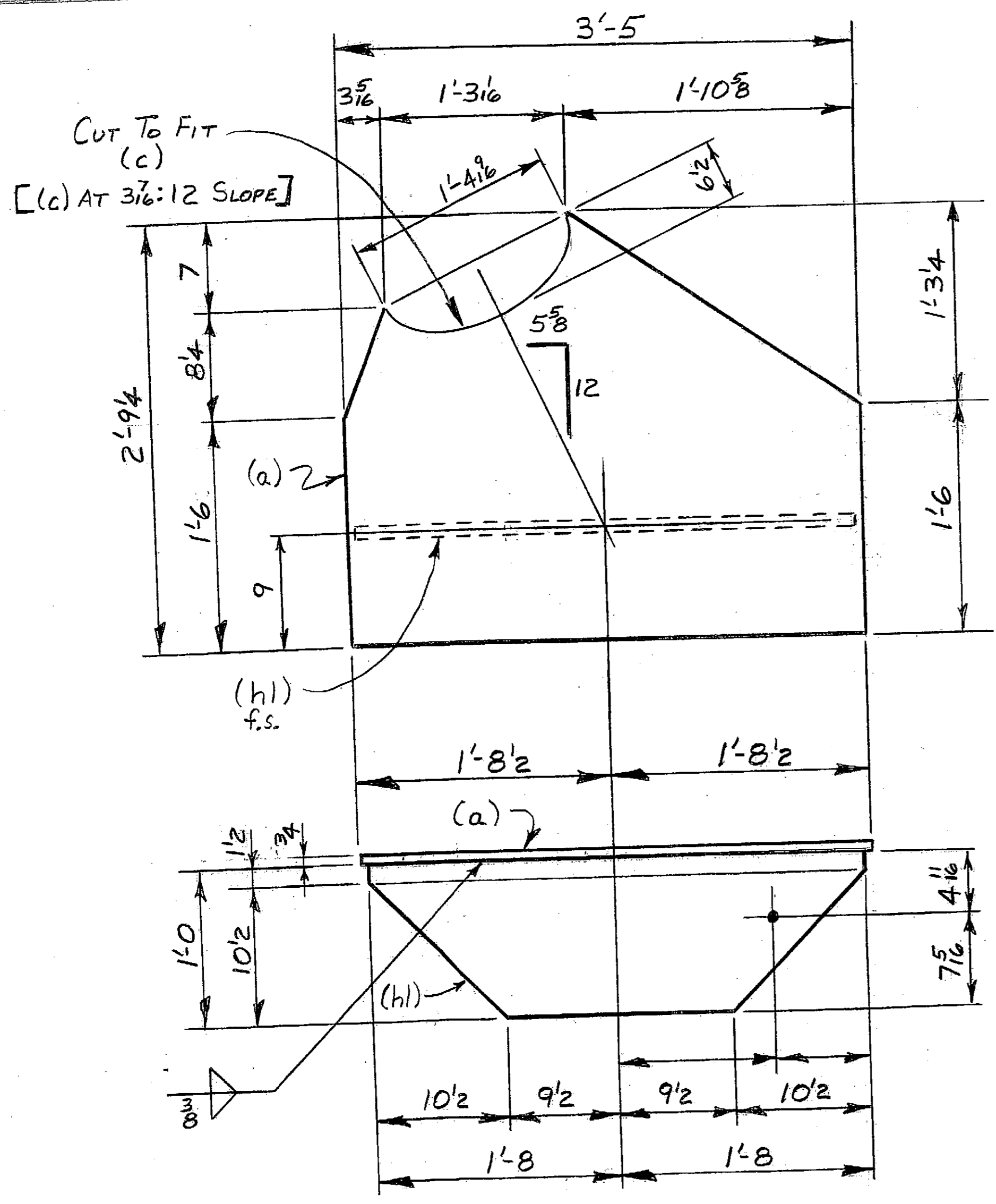
Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge, the project as constructed.
PE *[Signature]* Date 7-27-08

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

DESIGNED BY:	STATE OF ALASKA DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES STATEWIDE DESIGN & ENGINEERING SERVICES DIVISION					
	Clark Bay Seaplane Float Project 67497					
	Lighting Details					
CHECKED BY:	PROJECT DESIGNATION					
DRAWN BY: F.M.C.	YEAR					
PATH:	SHEET NO.					
PLOT:	TOTAL SHEETS					
REVISIONS		PROJECT DESIGNATION		YEAR	SHEET NO.	TOTAL SHEETS
NO.	DATE	DESCRIPTION	67497	2006	43	43

BILL OF MATERIAL

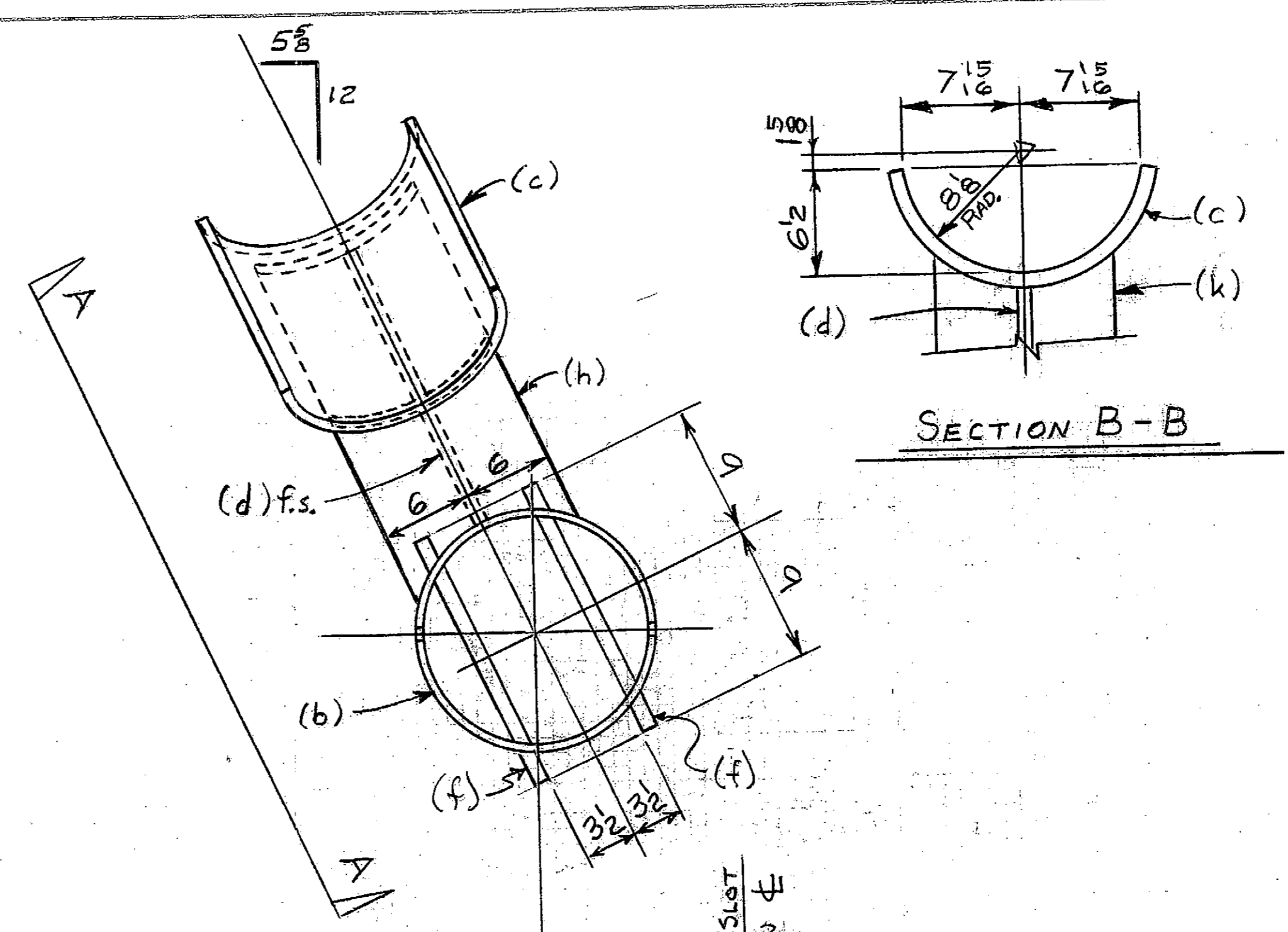
NO. TO SHIP	SHIP MARK	ASSEMBLY MARK	NO. PCS	SECTION	LENGTH		REMARKS	UNIT WT	WEIGHT	P.O. NO.
					FT.	IN.				
ONE	2AR			PILE CAP						
ONE	2AL			PILE CAP						
a	2			R 3/4 x 33/4	3	5				
hl	2			R 5/8 x 12	3	4				
ONE	2BR			PILE CAP						
ONE	2BL			PILE CAP						
b	2			16" PIPE x 1/2	4	7 1/2	A53 GR. B			
c	2			R 1/2 x 22 1/2	4	0	ROLL			
d	2			R 5/8 x 20 3/8	3	5 1/4				
f	4			BAR 6 x 1	1	6	LOOSE			
f'	4			BAR 6 x 1	1	6	LOOSE			
h	2			R 3/4 x 12	1	1 1/6	DETAIL 1			
k	2			R 3/4 x 12	2	1 1/6	DETAIL 2			



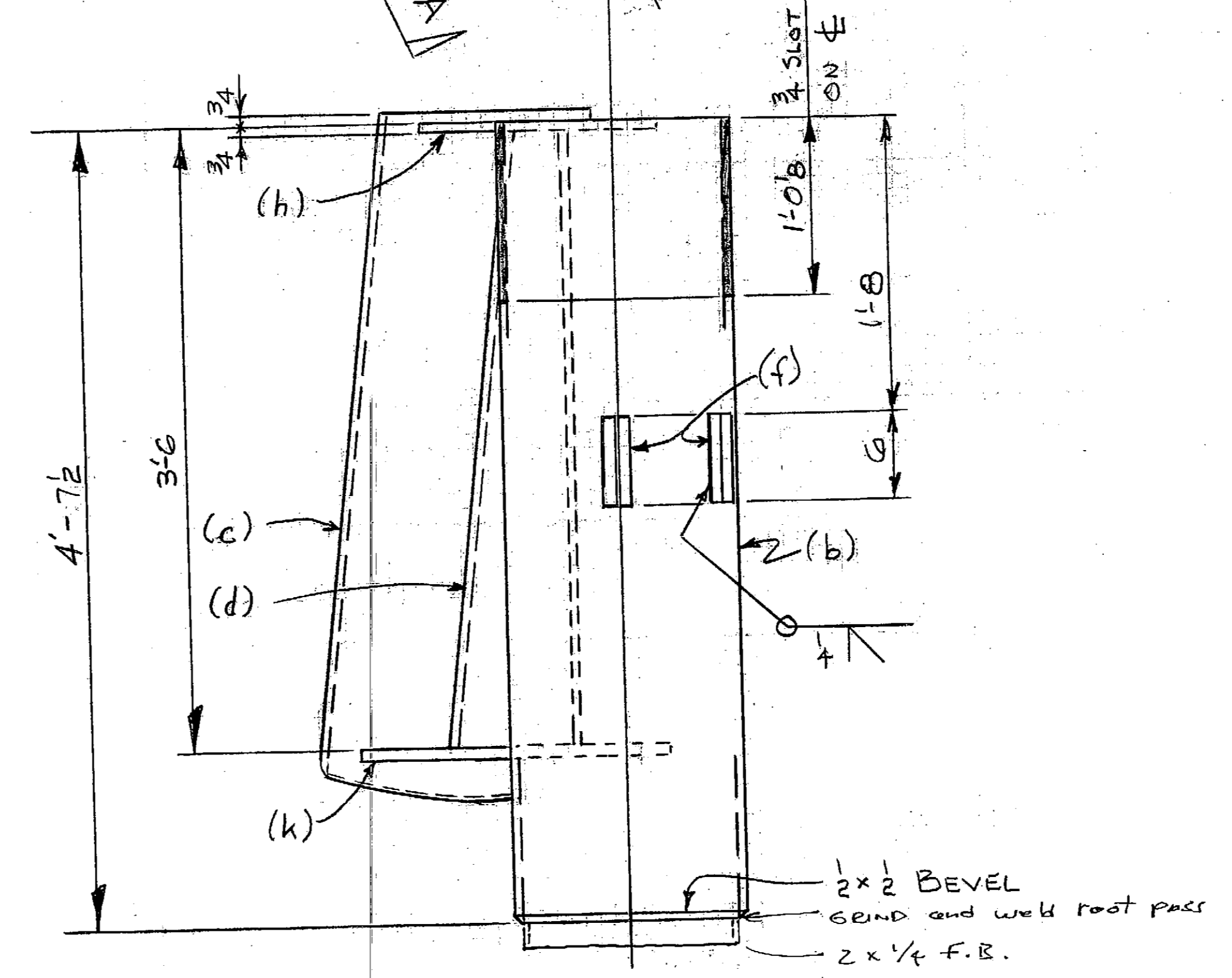
MAKE ONE ≈ AS SHOWN ≈ PILE CAP ≈ MK 2AR

MAKE ONE ≈ OPP. HAND ≈ PILE CAP ≈ MK 2AL

REF. DWG. 15



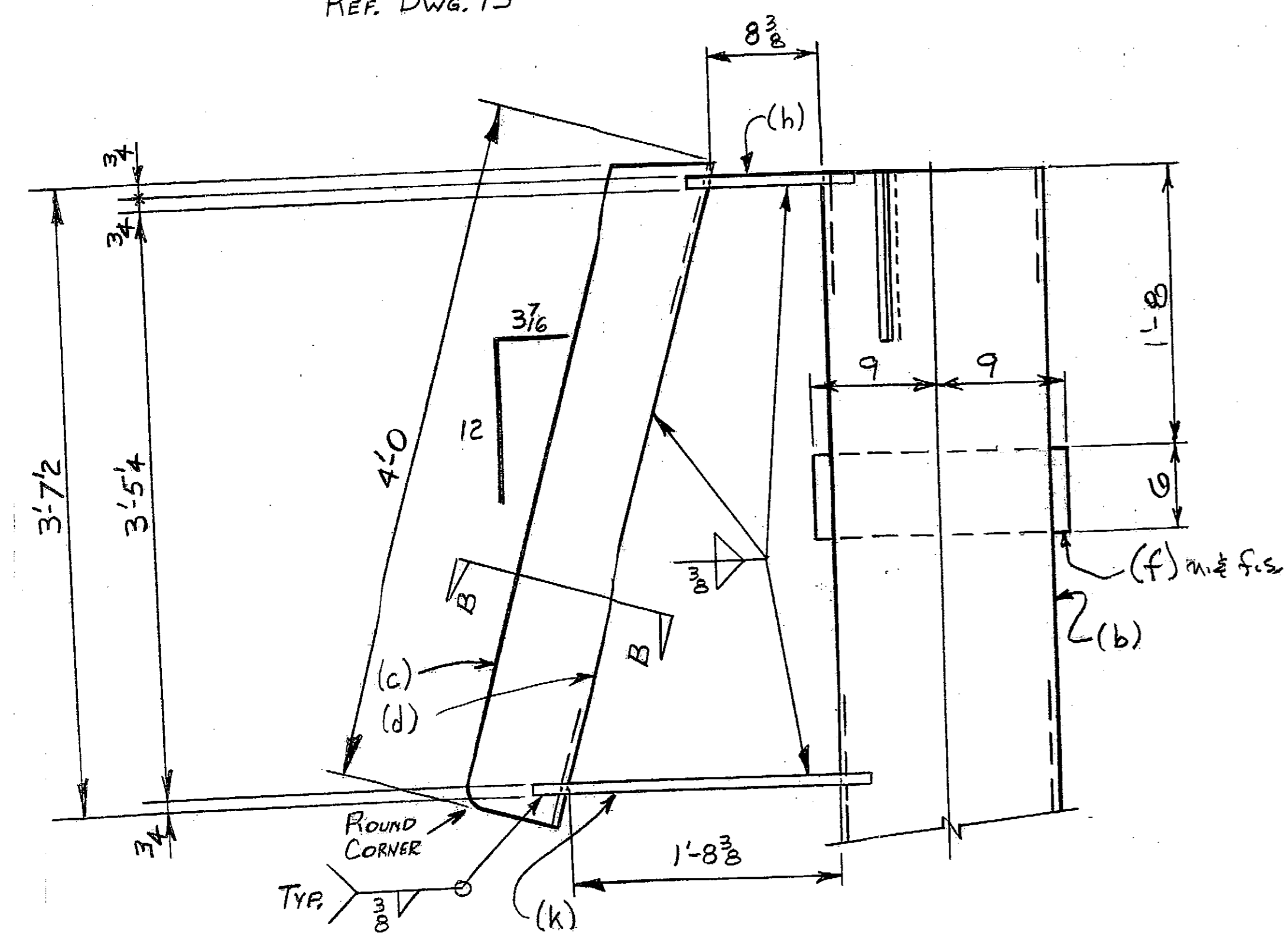
SECTION B-B



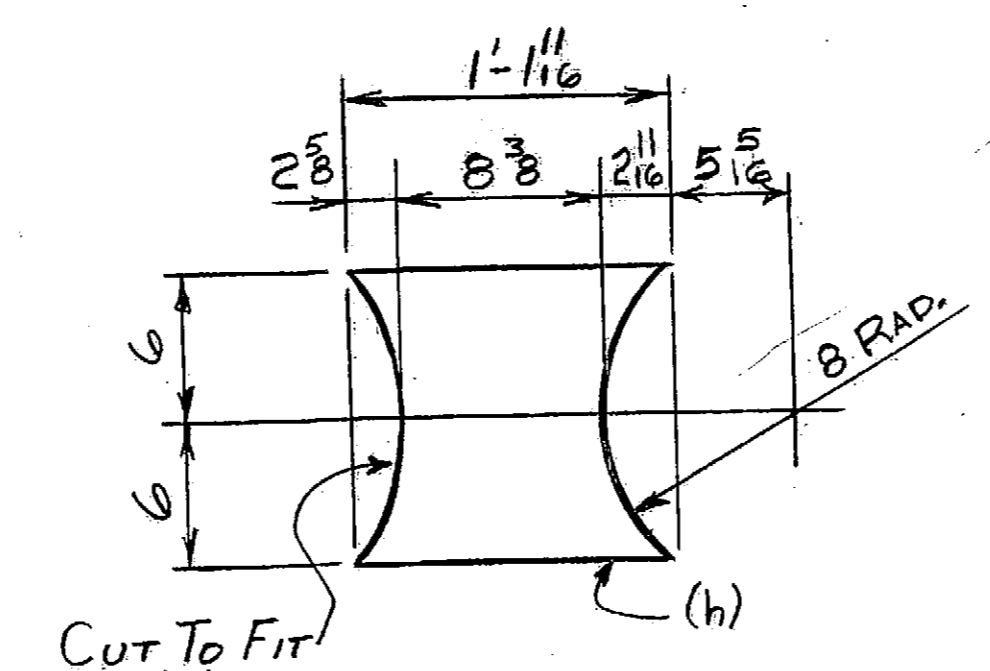
MAKE ONE ≈ AS SHOWN ≈ PILE CAP ≈ MK 2BR

MAKE ONE ≈ OPP. HAND ≈ PILE CAP ≈ MK 2BL

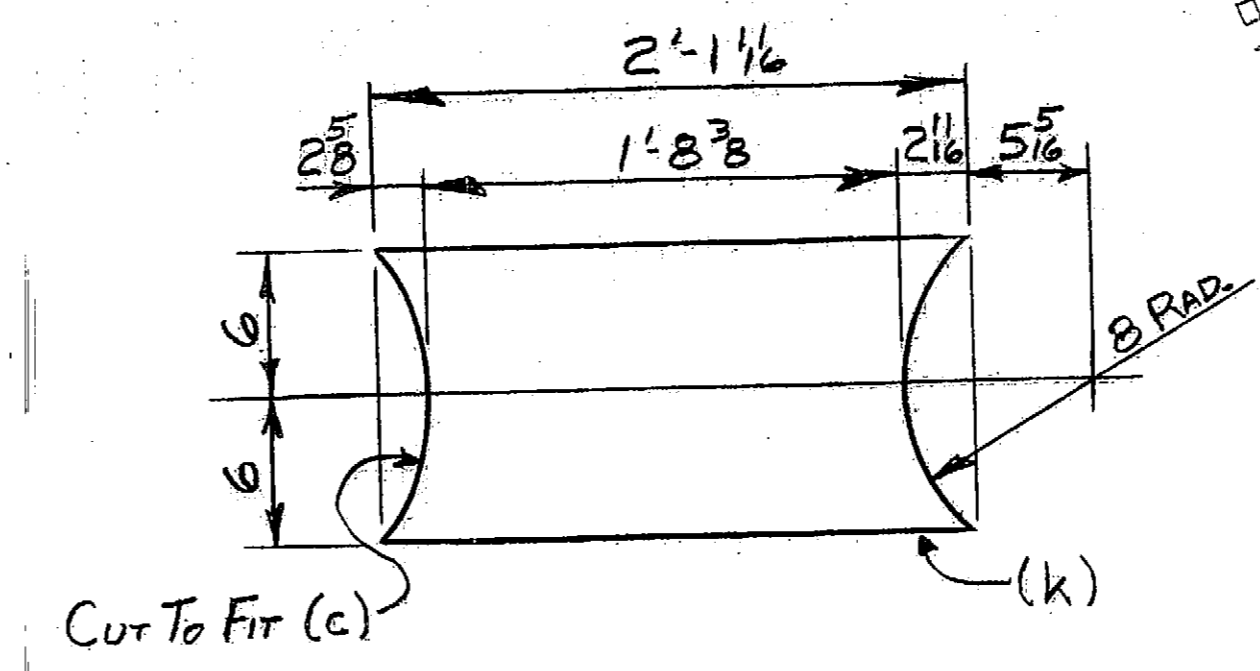
REF. DWG. 15



VIEW A-A



DETAIL 1



DETAIL 2

NO EXCEPTION TAKEN AMEND AND RESUBMIT, AS NOTED VERIFY CORRECTIONS NOTED REJECTED

The submittal has been reviewed for conformance with the design concept and compliance with the information given in the Contract Documents. Contractor is responsible for agreement of dimensions and details as well as conformity of his submittals with the Contract Documents. Noting by this review releases the Contractor of responsibility for any subsequent completion of the work.

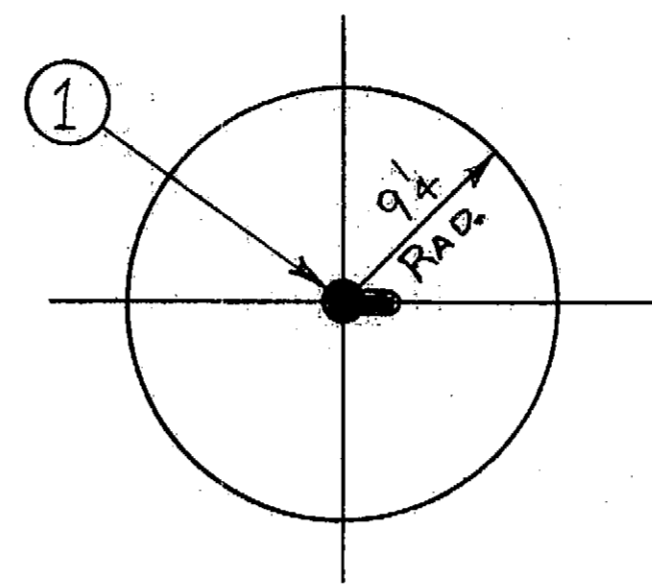
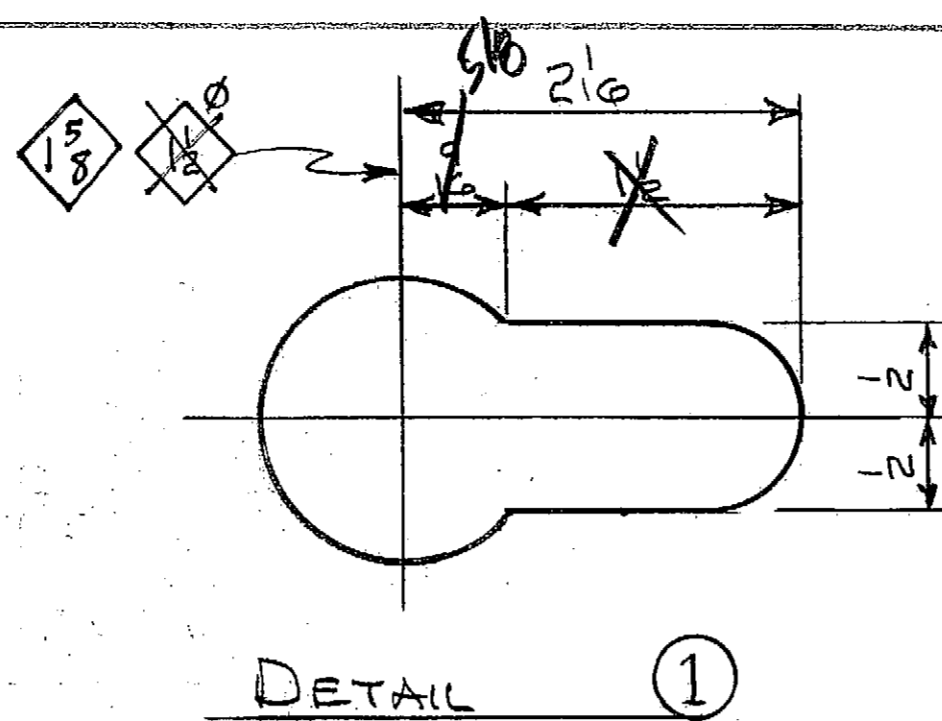
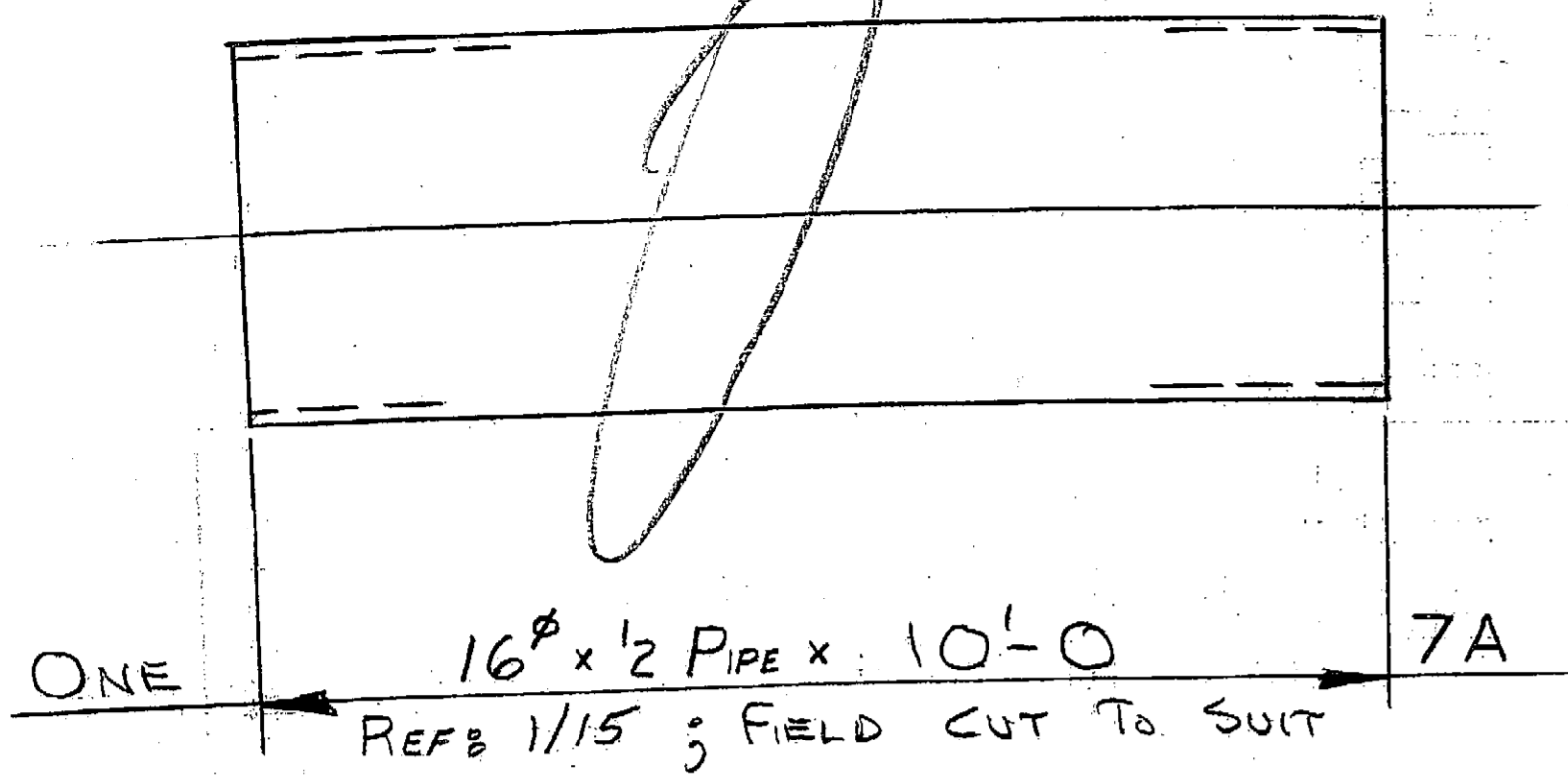
Reviewed by: *[Signature]* Date: 11/20/06
 Alaska Department of Transportation & Public Facilities
 Statewide Design & Engineering Services
 Preconstruction - Southeast Region

MATERIAL: A 36, U.N.
MILL CERTS. REQ'D.

Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge, the project as constructed.
 PE *[Signature]* Date: 2-22-08

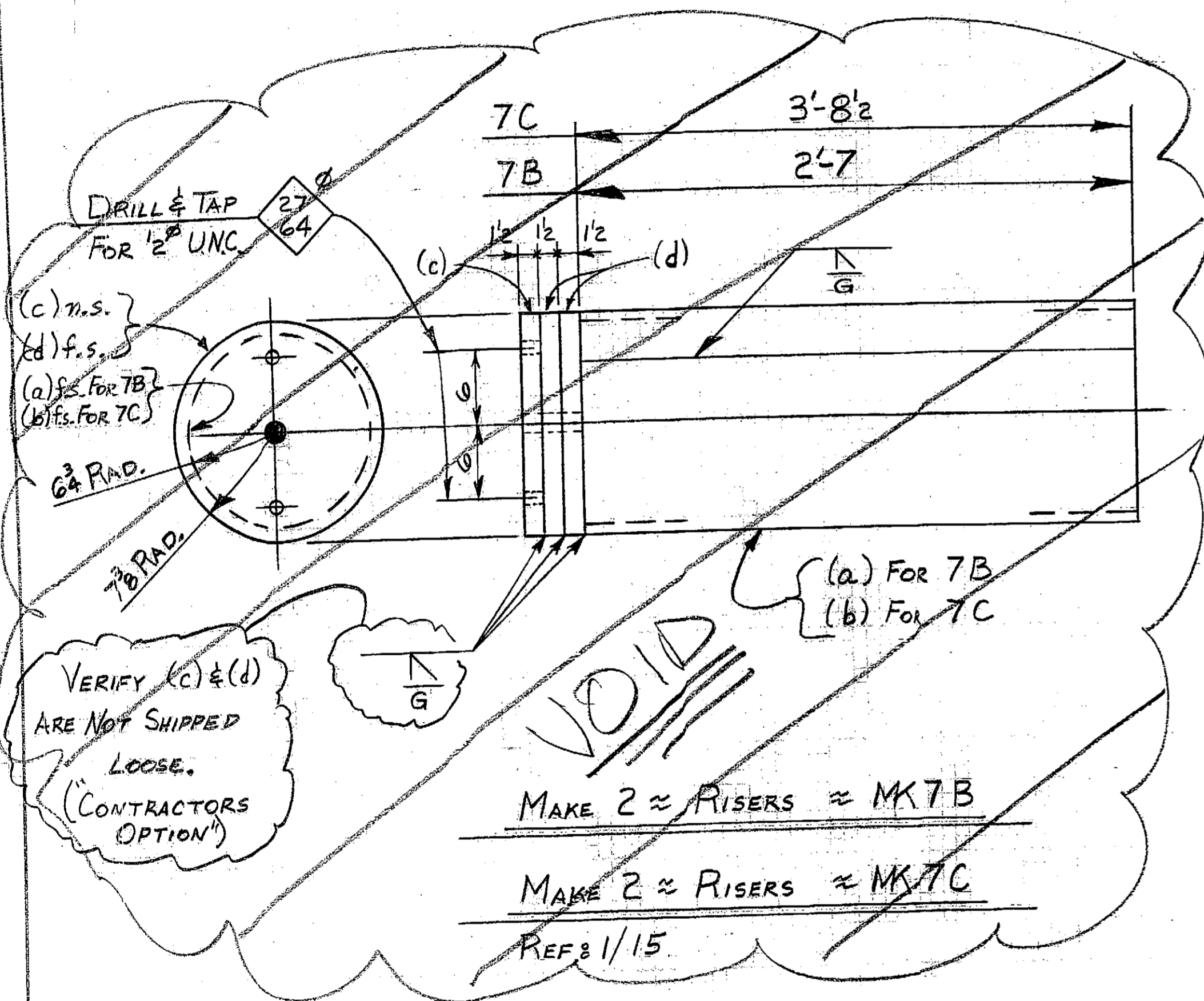
<input checked="" type="checkbox"/> REVISED PER APPROVAL (1-8-06 M.W.)			
NO.	DESCRIPTION	DATE	BY
REVISION			
CERT. WELDERS	A.W.S.	PRINTS	APPROV. SHOP FIELD
OPEN HOLES	1/8" U.N.	DATE	REV.
PAINT GALVANIZE		END & EDGE DISTANCE	U.N.
RAINIER WELDING 19020 NE 84TH STREET - REDMOND, WA 98053 (425) 868-1300 FAX (425) 388-8872 STEEL AND ALUMINUM FABRICATING			
ITEM PILE CAPS ≈ BENT G			
JOB CLARK BAY SEAPLANE FACILITY			
LOCATION CLARK BAY, AK.			
CONTR. WESTERN MARINE			
DRAWN BY	CHKD. BY	DATE	JOB NO.
A.R.	J.M.W.	10-9-06	2715
DRWG. NO.	2		

REF. E-1



MAKE 12 $\approx R 1\frac{1}{2} \times 18\frac{1}{2} \times 1'-6\frac{1}{2} \approx MK 7F$

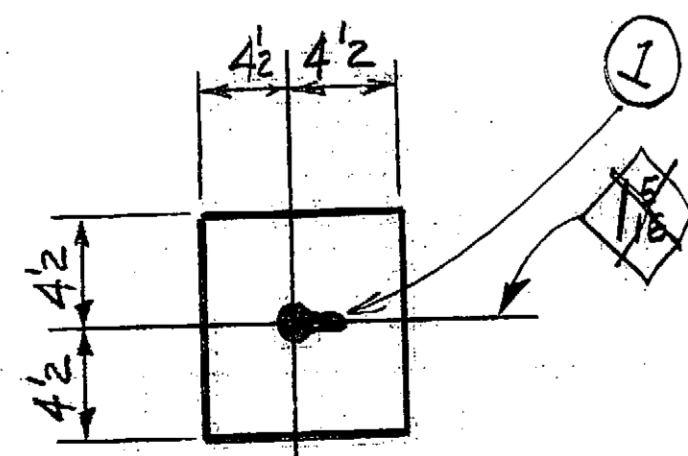
REFS SECT. A-A/37; SECT. B-B, C-C/38; DWG. 39 JACKING PLATE



MAKE 2 \approx RISERS $\approx MK 7B$

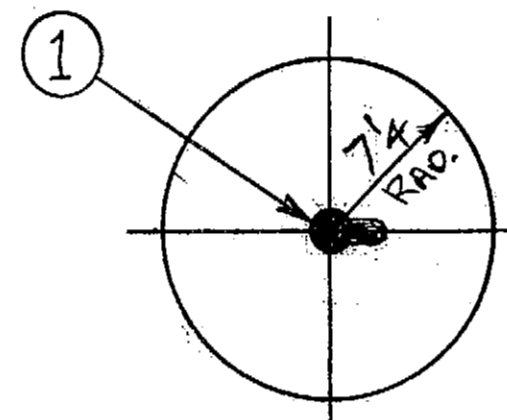
MAKE 2 \approx RISERS $\approx MK 7C$

REFS 1/15



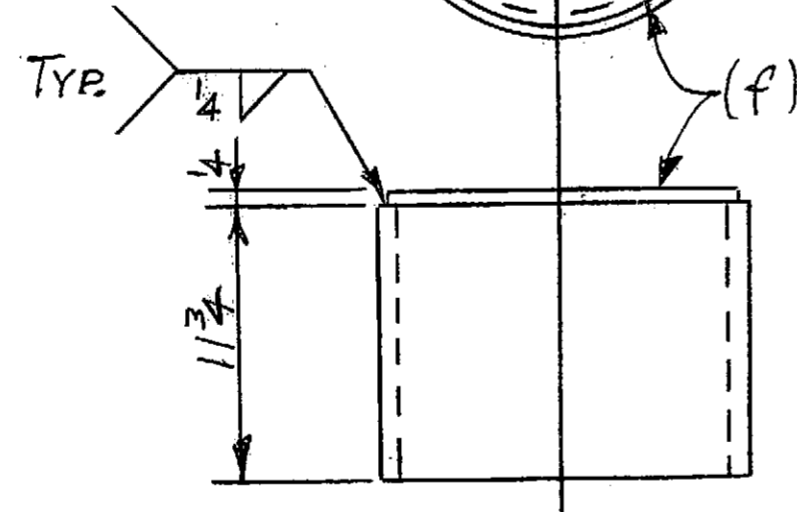
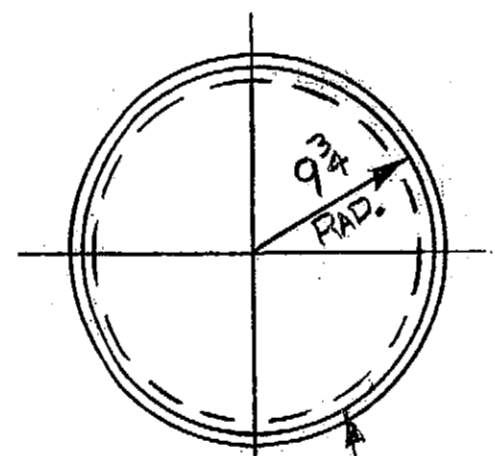
MAKE 10 $\approx R 1\frac{1}{2} \times 9 \times 0'-9 \approx MK 7D$

REFS 2/DWG. 15; SECT. A-A/DWG. 37
SECT. B-B; SECT. C-C/DWG. 38;
DWG. 39



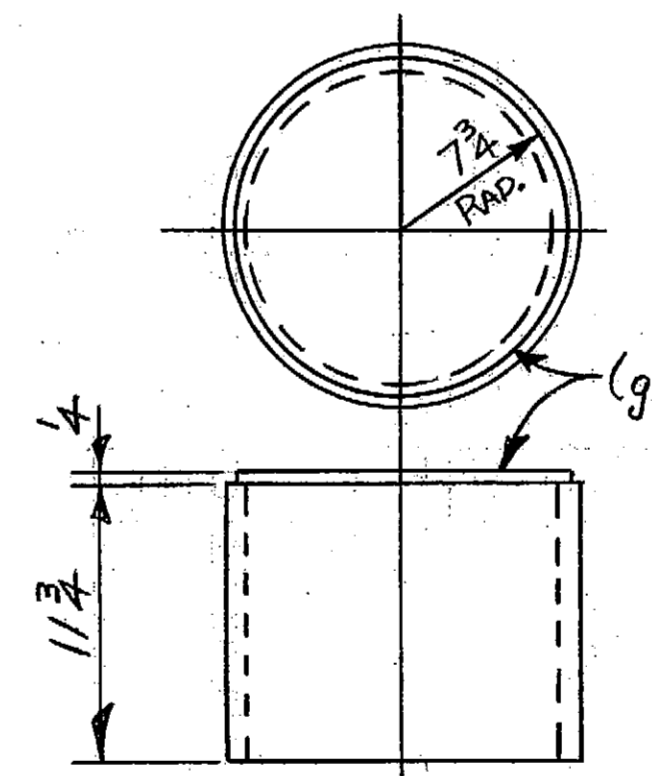
MAKE 10 $\approx R 1\frac{1}{2} \times 14\frac{1}{2} \times 1'-2\frac{1}{2} \approx MK 7G$

REFS SECT. C-C/38; DWG. 39



MAKE 4 $\approx 20'' \times \frac{1}{2}$ PIPE $\times 0'-11\frac{3}{4} \approx MK 7H$

REFS SECTS. B-B, C-C/38; SECT. A-A/37



MAKE 2 $\approx 16'' \times \frac{1}{2}$ PIPE $\times 0'-11\frac{3}{4} \approx MK 7K$

REFS SECT. C-C/38

- NO EXCEPTION TAKEN
- AMEND AND RESUBMIT, AS NOTED
- VERIFY CORRECTIONS NOTED
- REJECTED

The submittal has been reviewed for conformance with the design concept and compliance with the information given in the Contract Documents. Contractor is responsible for agreement of dimensions and details as well as conformity of his submittals with the Contract Documents. Nothing by this review relieves the Contractor of responsibility for the successful completion of the work.

Reviewed by: *K. Miller* Date: *4/2/06*

Alaska Department of Transportation & Public Facilities
Statewide Design & Engineering Services
Practices - Southeast Region

BILL OF MATERIAL

NO. TO SHIP	SHIP MARK	ASSY MARK	NO. PCS	SECTION	LENGTH		REMARKS	UNIT WT	WEIGHT	P.O. NO.
					FT.	IN.				
ONE	7A			$16'' \times \frac{1}{2}$ PIPE	10	0	A53, GR. B			
10	7D			$R 1\frac{1}{2} \times 9$	0	9				
12	7F			$R 1\frac{1}{2} \times 18\frac{1}{2}$	1	6 1/2				
10	7G			$R 1\frac{1}{2} \times 14\frac{1}{2}$	1	2 1/2				
4	7H	f	4	$20'' \times \frac{1}{2}$ PIPE	0	11 3/4	A53, GR. B			
				$R 4 \times 19\frac{1}{2}$	1	7 1/2				
2	7K	g	2	$16'' \times \frac{1}{2}$ PIPE	0	11 3/4	A53, GR. B			
				$R 4 \times 15\frac{1}{2}$	1	3 1/2				

MATERIALS A 36, U.N.
MILL CERTS. REQ'D.

Project As-Built Drawings have been reviewed by the Project Engineer and reviewed to the best of my knowledge, represent to the project as constructed.
PE *K. Miller* Date *2-29-08*

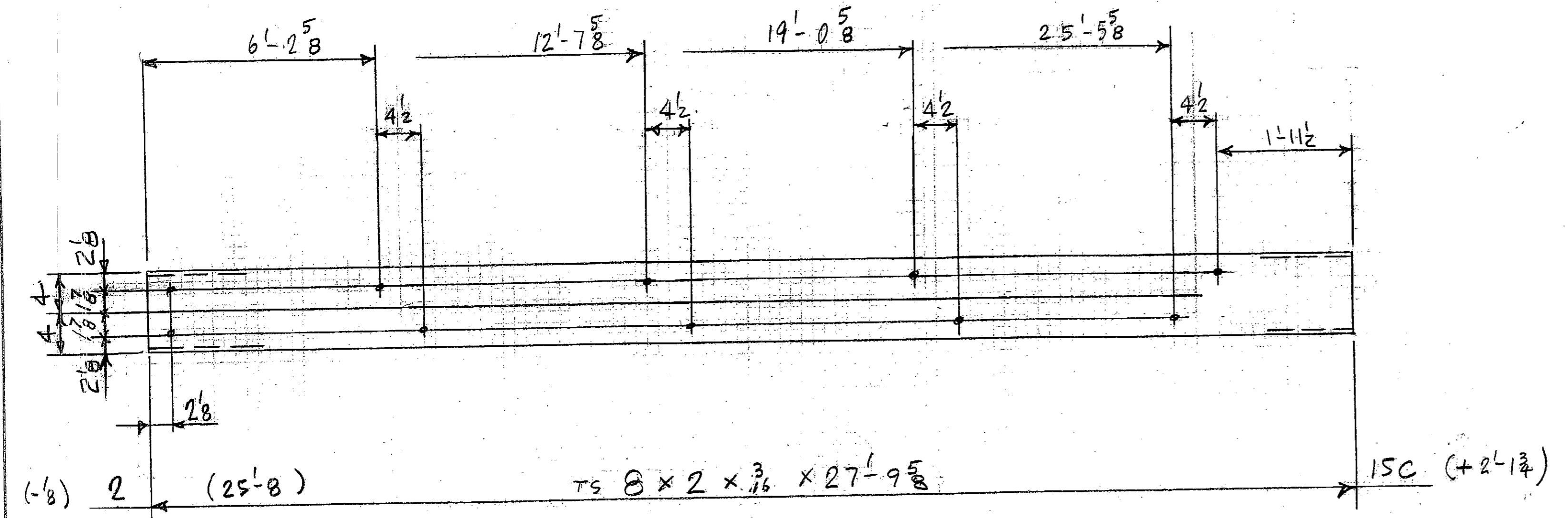
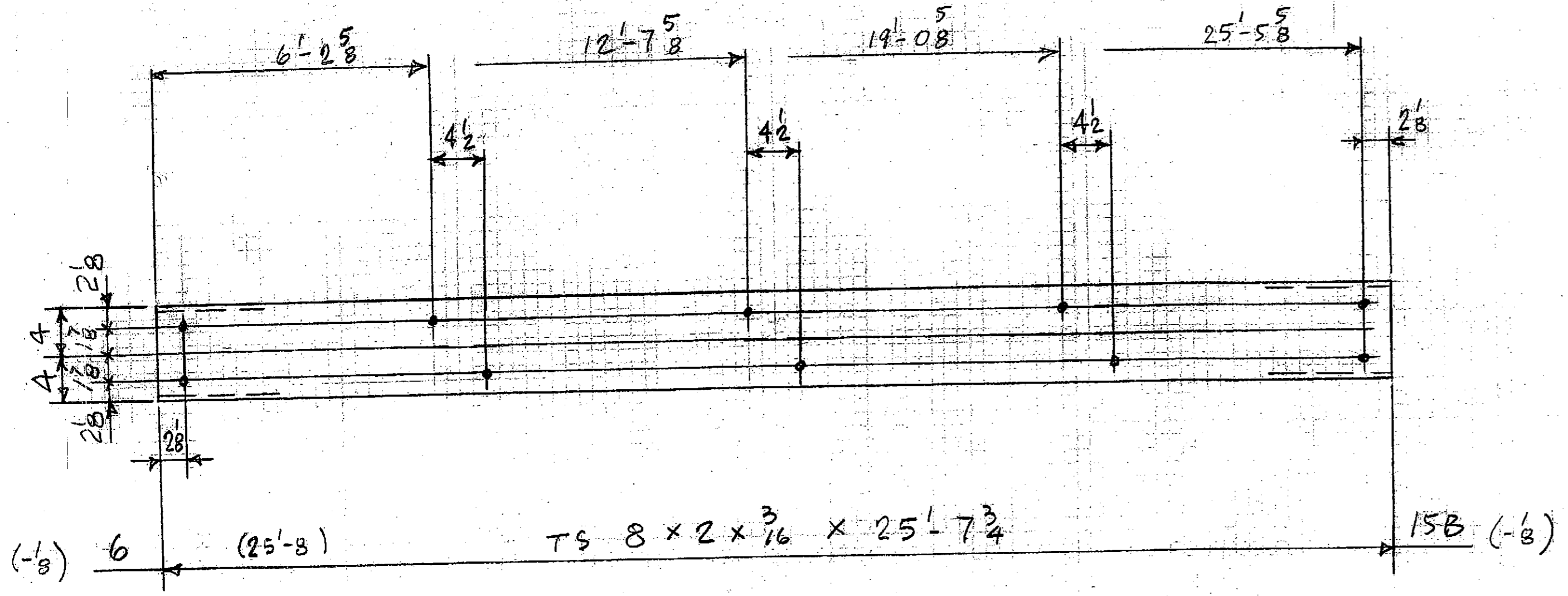
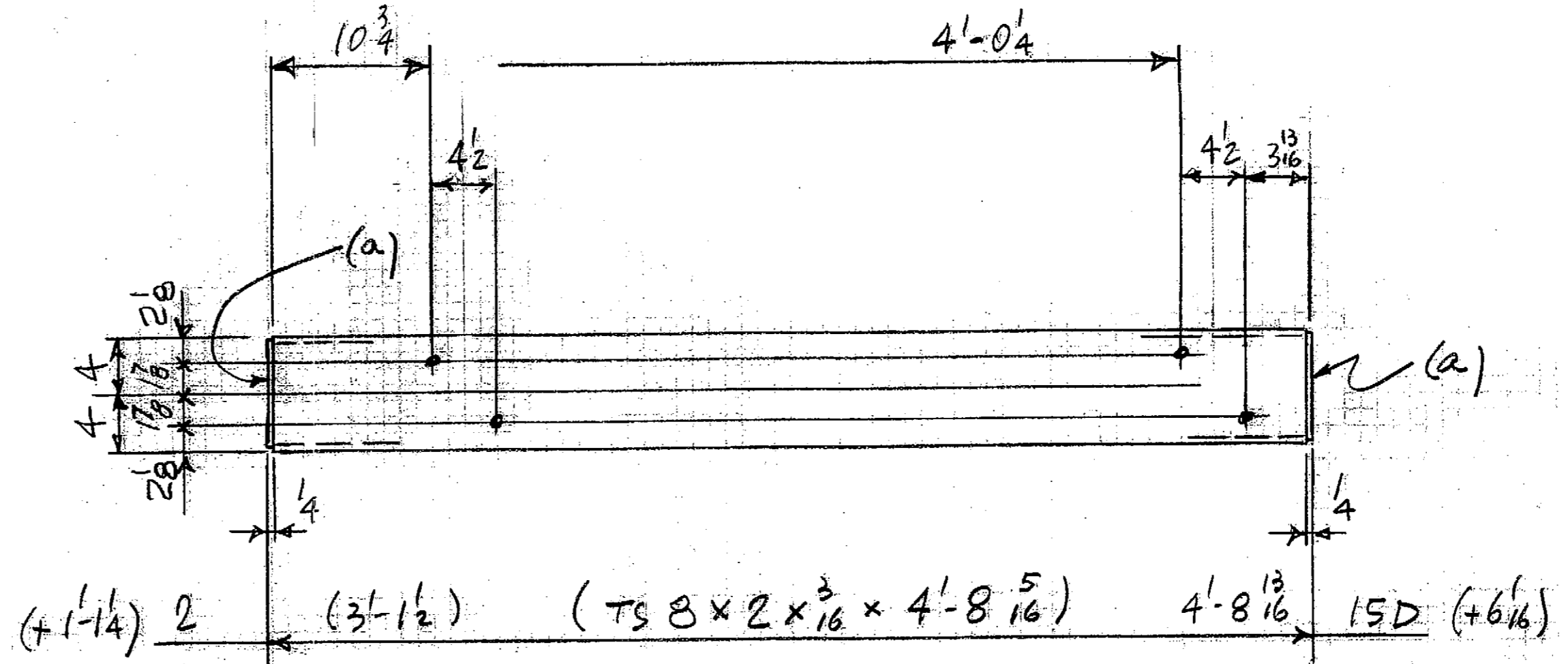
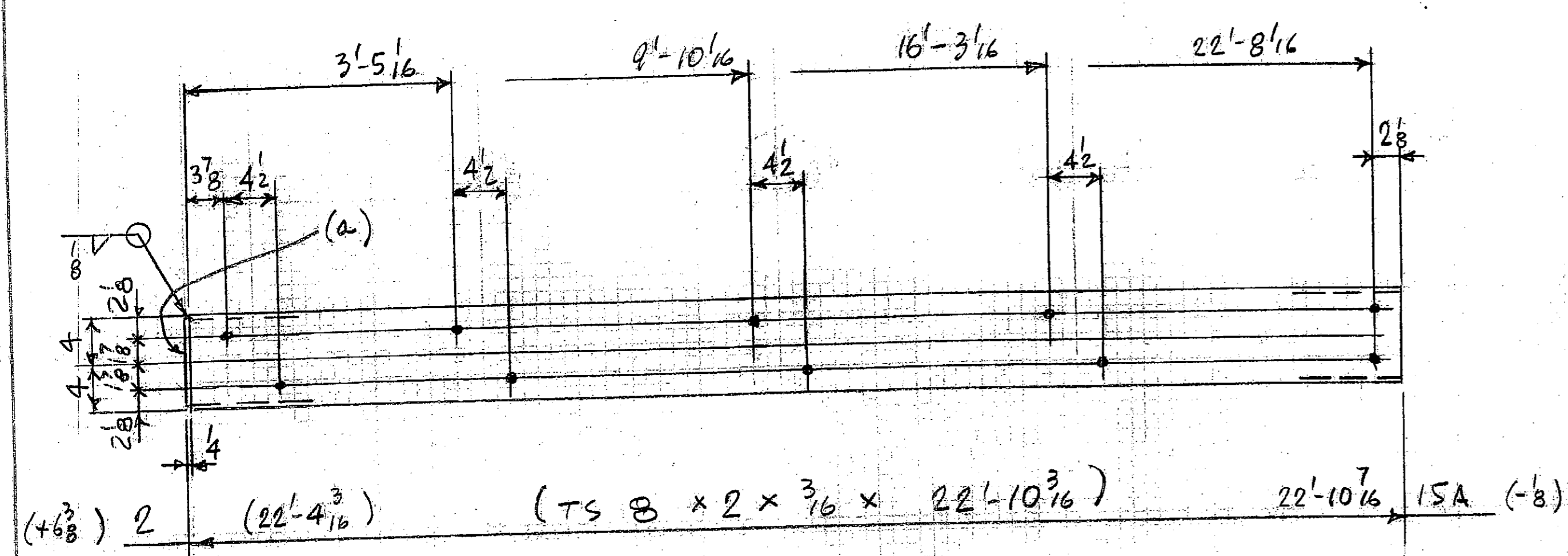
NO.	DESCRIPTION	DATE	BY
①	REVISED PER APPROVAL	11-16-06	MJD

CERT. WELDERS	A.W.S.	PRINTS	DATE	REV.	APPVL.	SHOP	FIELD
OPEN HOLES	$1\frac{1}{2}$ U.N.						
PAIN	GALVANIZE						

RAINIER WELDING
19020 NE 84TH STREET - REDMOND, WA 98053
(425) 868-1300 FAX (425) 868-8872
STEEL AND ALUMINUM FABRICATING

ITEM: Misc. STEEL
JOB: CLARK BAY SEAPLANE FACILITY
LOCATION: CLARK BAY, AK.
CONTR.: WESTERN MARINE

DRWN. BY	CHKD. BY	DATE	APP. NO.	DWG. NO.	REV.
A.R.	J.M.W.	10-11-06	2715	7	①



BILL OF MATERIAL										
NO. TO SHIP	SHIP MARK	ASSEMBLY MARK	NO. PCS.	SECTION	LENGTH		REMARKS	UNIT WT.	WEIGHT	P.O. NO.
					FT.	IN.				
2	15A		2	TS 8 x 2 x 3/16	22	10 7/16				
			2	BAR 1 3/4 x 4	0	6 3/4				
6	15B			TS 8 x 2 x 3/16	25	7 3/4				
2	15C			TS 8 x 2 x 3/16	27	9 5/8				
2	15D		2	TS 8 x 2 x 3/16	4	8 5/16				
			2							

MAT.: T.S. ~ A 500, GR. B

MILL CERT'S. REQ'D.

- NO EXCEPTION TAKEN
- AMEND AND RESUBMIT, AS NOTED
- VERIFY CORRECTIONS NOTED
- REJECTED

The submittal has been reviewed for conformance with the design concept and compliance with the information given in the Contract Documents. Contractor is responsible for agreement of dimensions and details as well as conformity of this submittal with the Contract Documents. Nothing by this review relieves the Contractor of responsibility for the successful completion of the work.

Reviewed by: *R. Miller* Date: 11/20/06
 Alaska Department of Transportation & Public Facilities
 Statewide Design & Engineering Services
 Preconstruction - Southeast Region

REF: E-2

<input checked="" type="checkbox"/> REVISED PER APPROVAL		11-10-06 M.R.	
NO. DESCRIPTION DATE BY			
REVISION			
CERT WELDERS W.A.B.O.		PRINTS	APPVL SHOP FIELD
OPEN HOLES 16 U.N. = U.N.		DATE REV.	DATE REV.
PAINT GALVANIZE		END & EDGE DISTANCE	
RAINIER WELDING 19020 NE 84TH STREET - REDMOND, WA 98053 (425) 868-1300 FAX (425) 868-8872 STEEL AND ALUMINUM FABRICATING			
ITEM TOP RAILS			
JOB CLARK BAY SEAPLANE FACILITY			
LOCATION CLARK BAY, ALASKA			
CONTR. WESTERN MARINE			
DRWN BY PF	CHKD BY J.M.R.	DATE 10-12-06	JOB NO. 2715
			DRWG. NO. 15
			REV. 1