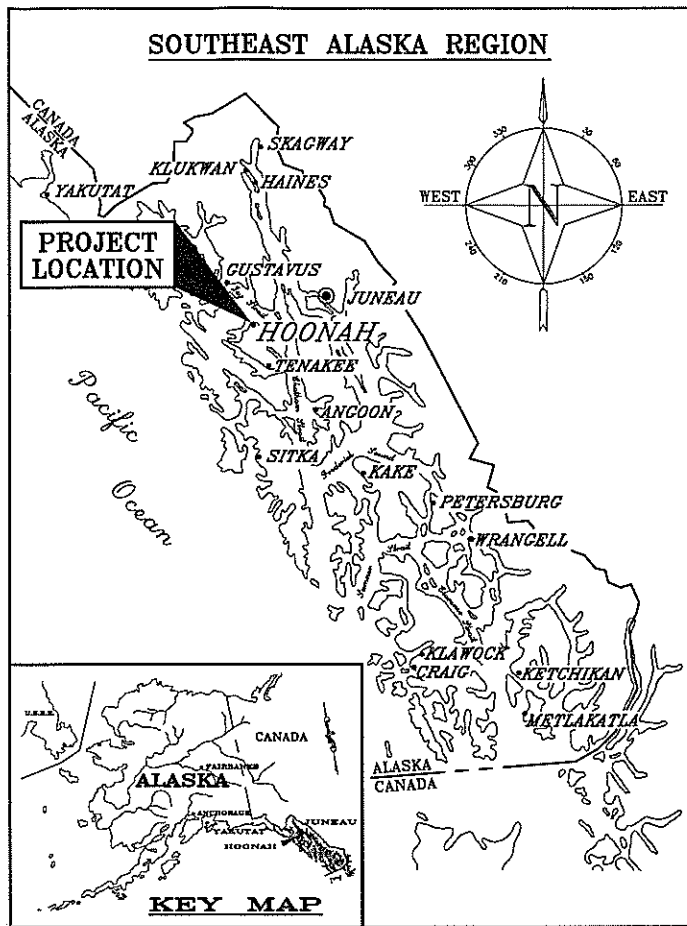




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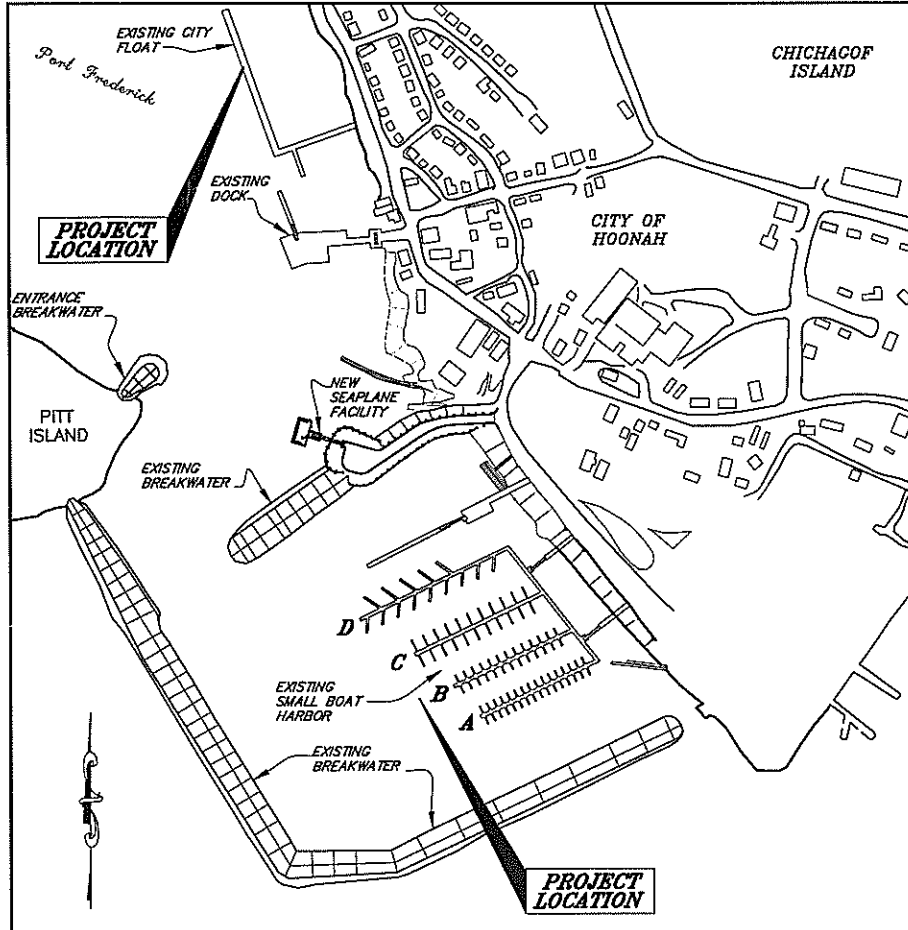
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STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES
SOUTHEAST REGION

FOR THE
City of Hoonah

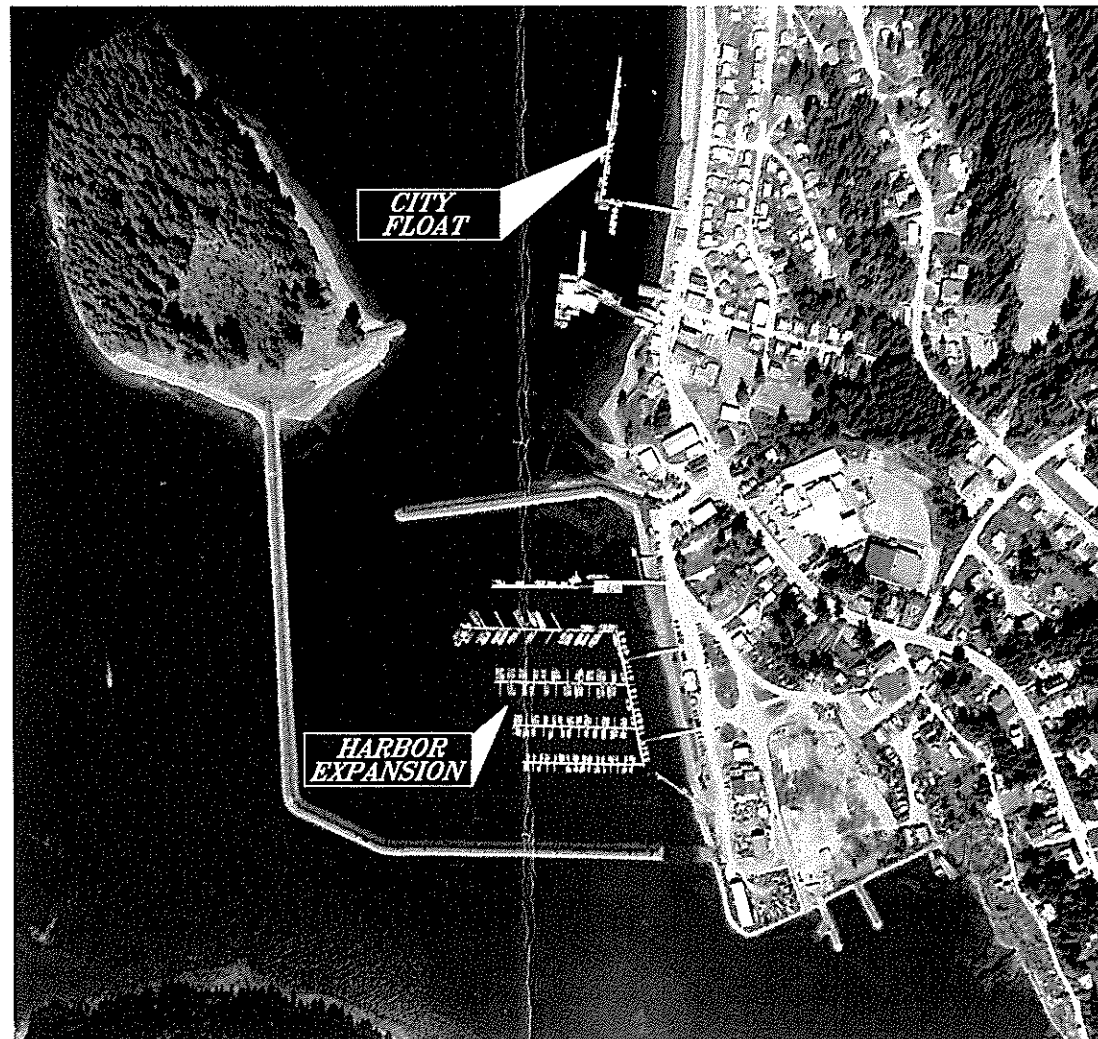
A PROJECT AT
HOONAH, ALASKA
PROJECT SUMMARY
HOONAH
CITY FLOAT REPLACEMENT
& HARBOR EXPANSION



PROJECT INDEX
PROJECT SUMMARY
Title & Estimate of Quantities / 2 Sheets
PLANSETS
Planset A- Hoonah City Float Replacement / 34 Sheets
Planset B- Hoonah Harbor Expansion / 28 Sheets



Vicinity Map



Site Map

AS-BUILT
DATE COMPLETED: 9/7/07
CONTRACTOR: TRUCANO CONST.

CITY OF HOONAH	
APPROVED	
<i>Dennis H. Gray, Jr.</i>	Date 9/16/06
Dennis H. Gray, Jr. Mayor, City of Hoonah	
PROJECT NUMBER:	67792
DATE:	August, 2006
SHEET	1 OF 2

Hoonah City Float & Harbor Expansion Estimate of Quantities Basic Bid - City Float & Harbor Floats C & D			
Item Number	Description	Unit	Quantity
202 (1A)	Demolition & Removal	Lump Sum	All Req'd
504 (1A)	Gangway & Trestle Support Pile Cap Structure	Lump Sum	All Req'd
504 (2A)	11' x 100' Steel Gangway	Lump Sum	All Req'd
504 (3A)	Float Pile Cap	Lump Sum	All Req'd
504 (4A)	Aluminum Transition Plate (City Float)	Lump Sum	All Req'd
504 (5B)	Aluminum Transition Plate (Floats C & D)	Each	2
505 (1B)	12.75" dia. x 1/2" Wall Pipe Piles, Furnished	Linear Foot	1216
505 (2B)	12.75" dia. x 1/2" Wall Pipe Piles, Driven	Each	16
505 (3A)	16" dia. x 1/2" Wall Pipe Piles, Furnished	Linear Foot	1854
505 (4A)	16" dia. x 1/2" Wall Pipe Piles, Driven	Each	22
505 (3B)	16" dia. x 1/2" Wall Pipe Piles, Furnished	Linear Foot	960
505 (4B)	16" dia. x 1/2" Wall Pipe Piles, Driven	Each	12
505 (7A)	18" dia. x 1/2" Wall Pipe Piles, Furnished	Linear Foot	748
505 (8A)	18" dia. x 1/2" Wall Pipe Piles, Driven	Each	8
506 (1A)	Timber Trestle Modifications	Lump Sum	All Req'd
506 (2A)	50' x 80' Glulam Gangway Float	Lump Sum	All Req'd
506 (3A)	12' x 437.5' Timber Mooring Float	Lump Sum	All Req'd
506 (4B)	10' x 200' Timber Main Float (Float C)	Lump Sum	All Req'd
506 (5B)	5' x 40' Timber Stall Float	Each	10
506 (6B)	12' x 150' Timber Main Float (Float D)	Lump Sum	All Req'd
506 (7B)	6' x 48' Timber Stall Float	Each	3
506 (10A)	Fire Extinguisher Station	Each	12
506 (10B)	Fire Extinguisher Station	Each	8
506 (12A)	Leveling Flotation	Cubic Foot	40
506 (12B)	Leveling Flotation	Cubic Foot	113.75
506 (14B)	Repair Existing Concrete Gangway Float (Btwn Floats C & D)	Contingent Sum	All Req'd
640 (1)	Mobilization and Demobilization	Lump Sum	All Req'd
642 (1A)	Construction Surveying (City Float)	Lump Sum	All Req'd
642 (1B)	Construction Surveying (Harbor)	Lump Sum	All Req'd
662 (1A)	Electrical Lighting System (City Float)	Lump Sum	All Req'd
662 (3B)	Electrical Power & Lighting System (Floats C & D)	Lump Sum	All Req'd

Additive Alternate A - Float B			
Item Number	Description	Unit	Quantity
504 (6B)	Aluminum Transition Plate (Float B)	Each	1
505 (5B)	16" dia. x 1/2" Wall Pipe Piles, Furnished (Float B)	Linear Foot	480
505 (6B)	16" dia. x 1/2" Wall Pipe Piles, Driven (Float B)	Each	6
505 (11B)	100 lb Anode for 16" dia. Pile (Float B)	Each	6
506 (8B)	10' x 192' Timber Main Float (Float B)	Lump Sum	All Req'd
506 (9B)	3.5' x 30' Timber Stall Float	Each	12
506 (11B)	Fire Extinguisher Station (Float B)	Each	5
506 (13B)	Leveling Flotation (Float B)	Cubic Foot	71.25
506 (15B)	Repair Existing Concrete Gangway Float (Btwn Floats A & B)	Contingent Sum	All Req'd
662 (4B)	Electrical Power & Lighting System (Float B)	Lump Sum	All Req'd

Additive Alternate B - Pile Anodes			
Item Number	Description	Unit	Quantity
505 (9B)	100 lb Anode for 12.75" dia. Pile	Each	16
505 (10A)	100 lb Anode for 16" dia. Pile	Each	22
505 (10B)	100 lb Anode for 16" dia. Pile	Each	12
505 (12A)	100 lb Anode for 18" dia. Pile	Each	8

Additive Alternate C - City Float Electrical Power			
Item Number	Description	Unit	Quantity
662 (2A)	Electrical Power System (City Float)	Lump Sum	All Req'd

Additive Alternate D - Phased Completion for Harbor Expansion			
Item Number	Description	Unit	Quantity
640 (2)	Mobilization & Demobilization for Early Completion of Harbor Expansion Work	Lump Sum	All Req'd

ADDITIVE ALT A
NOT AWARDED

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

STATE OF ALASKA

49th

Kirk D. Miller

CE-8530

DESIGNED BY: K. Miller

DRAWN BY: R. Grantham

PATH: Q:\Hnh\67792\MF\Plans\set - Project Summary\02_Sums.dwg

TAB: 2 kdmiller1 Fri, 08/Sep/06 03:09PM

REVISIONS

NO.	DATE	DESCRIPTION

PROJECT DESIGNATION

67792

YEAR

2006

SHEET NO.

2

TOTAL SHEETS

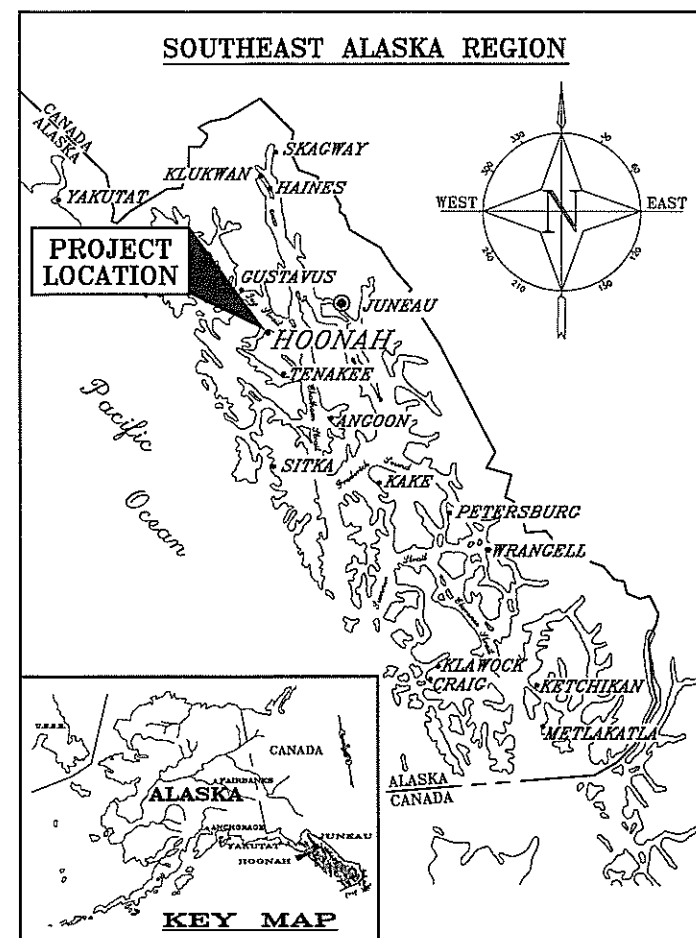
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CITY OF HOONAH

Hoonah

City Float Replacement & Harbor Expansion

ESTIMATE OF QUANTITIES

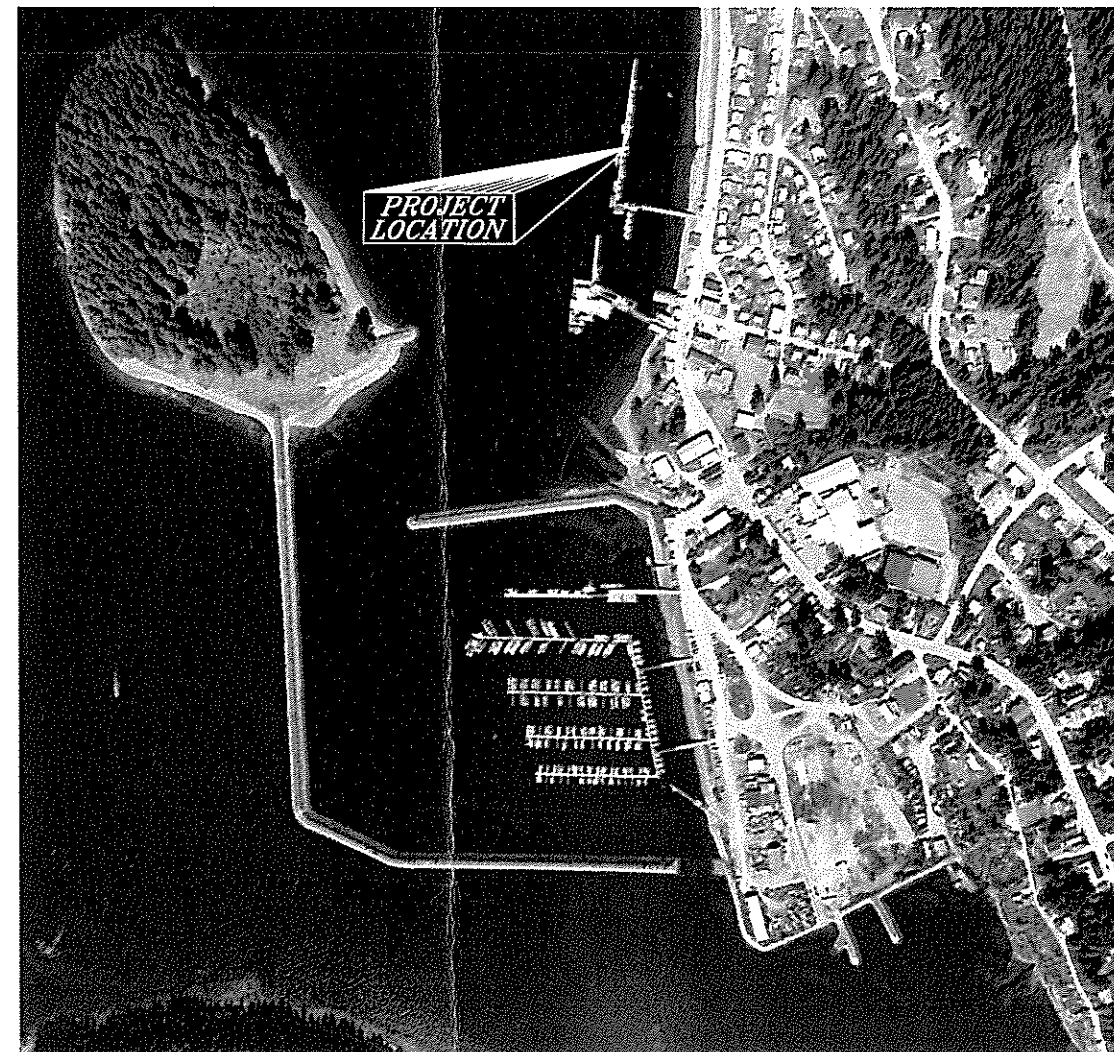
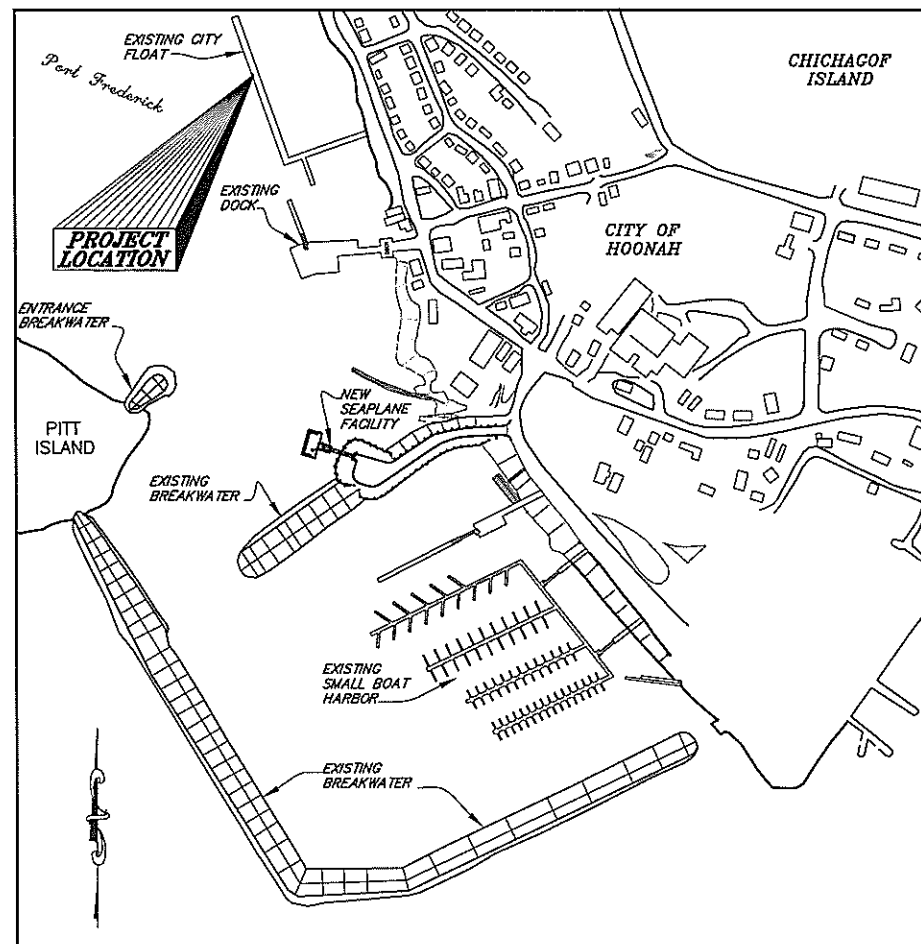


City of Hoonah

HOONAH, ALASKA

Planset A
Hoonah City Float Replacement

PROJECT NO. 67792

[illegible]

Site Map

CITY OF HOONAH

APPROVED

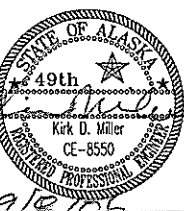
Dennis H. Gray Date 9/1/06
Dennis H. Gray, Jr.
Mayor, City of Moonah

PROJECT NUMBER:

67792

DATE: _____

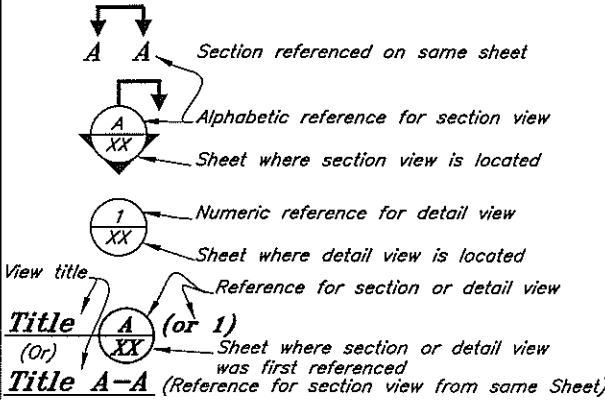
August 2006

SHEET 1 OF 34

ESTIMATE OF QUANTITIES PLANSET A – CITY FLOAT REPLACEMENT			
Item Number	Description	Unit	Quantity
202 (1A)	Demolition & Removal	Lump Sum	All Required
504 (1A)	Gangway & Trestle Support Pile Cap Structure	Lump Sum	All Required
504 (2A)	11' x 100' Steel Gangway	Lump Sum	All Required
504 (3A)	Float Pile Cap	Lump Sum	All Required
505 (3A)	16" dia. x 1/2" Wall Pipe Piles, Furnished	Linear Foot	1,864
505 (4A)	16" dia. x 1/2" Wall Pipe Piles, Driven	Each	22
505 (7A)	18" dia. x 1/2" Wall Pipe Piles, Furnished	Linear Foot	748
505 (8A)	18" dia. x 1/2" Wall Pipe Piles, Driven	Each	8
506 (1A)	Timber Trestle Modifications	Lump Sum	All Required
506 (2A)	50' x 80' Glulam Main Float	Lump Sum	All Required
506 (3A)	12' x 437.5' Timber Mooring Float	Lump Sum	All Required
506 (10A)	Fire Extinguisher Stations (City Float)	Each	12
506 (12A)	Leveling Flotation	Cubic Foot	40
640 (1)	Mobilization and Demobilization	Lump Sum	All Required
642 (1A)	Construction Surveying (City Float)	Lump Sum	All Required
662 (1A)	Electrical Lighting System (City Float)	Lump Sum	All Required
Additive Alternate B – Pile Anodes			
505 (10A)	100 lb Anode for 16" dia. Pile	Each	22
505 (12A)	100 lb Anode for 18" dia. Pile	Each	8
Additive Alternate C – City Float Electrical Power			
662 (2A)	Electrical Power System (City Float)	Lump Sum	All Required

TIDAL DATA	
EHW	= +20.0'
MHHW	= +14.8'
MLLW	= 0.0'
ELW	= -5.1'

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
FG – Finished grade
O-O – out to out
PT – Pressure treated
btm – bottom
PL – Plate
CL – Centerline
MI – malleable iron

General Notes

Specifications: Per Contract Documents. See Special Provisions and ADOT&PF Standard Specifications for Highway Construction.

Design Standards: ADOT&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 unless otherwise noted on Plans.

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

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

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

Tension Rods:

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

Timber:

Sawn timber shall be Douglas Fir, No. 1 or better per WCLIB/WWPA grading rules. Sawn timber decking shall be Douglas Fir, No. 1 or better per WCLIB/WWPA grading rules. All sawn timber shall be S4S except decking (milled S1S2E).

Glulam Stringers and Diaphragms shall be DF/DF, Combination 24F-V8. Glulam Deck Panels and Blocking 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 ASTM A709, Grade 50 with a minimum section modulus of 3.64 in³/ft. Grating shall be hot dip galvanized after fabrication.

Concrete:

Concrete for gangway walkway fill shall in accordance with the Specifications, Section 501. Texture surfaces with a broom finish.

Welding:

All welding shall be done by qualified welders in accordance with AWS D1.1, D1.5 or AWS D1.2.

Float Bumpers:

Float bumpers shall be heavy duty marine grade, vinyl skin w/ expanded polypropylene foam core such as "DockKushion" as manufactured by Dock Edge or approved equal. Bumpers shall be a minimum of 4-inches in overall height. Provide compatible corner and end pieces as may be required. Secure to float with stainless or hot-dip galvanized screws and washers as recommended by the manufacturer.

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

For leveling of floats (at locations to be directed by the Engineer), provide: 4 ea, 10"x20"x4'-6"L and 4 ea, 6"x20"x4'-6"L coated billets. Also provide 16 ea, 1/2" diameter x 16"L and 16 ea, 1/2" diameter x 20"L sharpened wooden or PVC dowels (pointed at one end). Where leveling is required, submerge leveling billet below float billet and drive 4 dowels thru leveling billet and into overlying float billet to secure in place.

Timber Float System:

Fabricate and incise all timber members prior to treatment. All holes to be drilled and daps to be cut prior to pressure treatment (except where specified). 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.

All fabrication and connection details are not shown. Provide detailed shop drawings showing all members and fabrication methods/sequence and as otherwise provide below:

Machine or power driven nails will not be permitted.

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

Glulam sub-decking shall be spaced ¼" apart (except for gangway float, see Plans) and secured to each stringer with galvanized lag screws w/ PL washer of the size and spacing indicated. Predrill proper size shaft and thread holes. Lubricate lags prior to installation. Install lag bolts tight w/o excessive deformation of timber or washer.

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

Milled decking placed over glulam subdecking shall be provided in nominal 16-foot lengths. Minimum length shall be 8-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 box or spiral shank nails. Install 2 nails at 16" OC (max) and 2 nails at each end. Predrill pilot hole to prevent splitting as required. Stagger adjacent deck joints a minimum of 4-feet apart.

Milled decking for the 12-foot wide mooring float shall be continuous from edges of float. Notch or cut to fit pile collar weldments. Space 1/4-inch apart. Secure to stringers with 2 each, 20d hot-dip galvanized box or spiral shank nails. Predrill at ends and other locations if required to prevent splitting.

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, 5/8" diam by 9" L lags (CTSK) within 12" of ends and every 3' OC (max) staggered row or as otherwise noted on plans or approved by the Engineer (reference Sheet 23). Space blocking lags to miss other hardware.

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	CITY OF HOONAH					
Hoonah City Float Replacement						
Estimate of Quantities & General Notes						
CHECKED BY: J. Beedle	PATH: Q:\Hnh\67792\MF\PlanSet-City Dock\02 Estimate of Quantities.dwg					
DRAFTED BY: K. Miller	PLOT: PSPACE 1=1 Wed, 23/Aug/06 12:56PM					
REVISIONS		PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS	
NO.	DATE	DESCRIPTION	67792	2006	2	34

PILES
LENGTHENED
TO HIT
BEDROCK

Pile Data								
Pile Information			Elevations (ft)					
Structure & Pile Location	Orientation	No. of Piles	Diam x Wall (inches)	Avg OG	Cut-Off	Estimated Tip Elevation	Estimated Penetration (ft)	Estimated Pile Length (ft)
Trestle Support Structure	Vertical	2	16 x 1/2	-2	+16.66	~~43.54~~	41	~~50~~
Trestle Support Structure	3.5:1 Batter	2	16 x 1/2	0	+21.16	~~38.46~~	38	~~62~~
Gangway Float - Shoreward Side	Vertical	4	18 x 1/2	-15	+32	-60	45	92
Gangway Float - South Side	Vertical	1	18 x 1/2	-17	+32	-60	43	92
Gangway Float - North Side	Vertical	1	18 x 1/2	-20	+32	-64	44	96
Gangway Float - Seaward Side	Vertical	2	18 x 1/2	-22	+32	-64	42	96
12' Wide Mooring Float	Vertical	18	16 x 1/2	-21	+32	-58	38	90

Note: Drive all piles to estimated tip elevation or practical refusal.

Hoonah Cold Storage Facility

Existing timber mooring float

Tract 23 Lease Limits

New 50'x80' glulam gangway float, see Sheet 15

Remove existing timber pile, 3 each

Remove existing 7'x52' steel gangway

New steel pile gangway support bent, see Sheet 4

Existing 20'x72' timber tidal grid to remain

Alignment Control
CL existing trestle
S 71° 58' 41" W

New 18"Ø steel float restraint pile, typ 8 each

Float pile cap, see Sheet 21

Remove existing 12'x75' timber approach float & 3 timber piles

New 11'x100' steel gangway, see Sheet 8

Remove 23'± portion of 10' wide existing timber trestle & 6 timber piles

CL vertical piles

Existing timber approach trestle to remain

PORT FREDERICK

New 12'x437.5' timber mooring float, See sheet 24

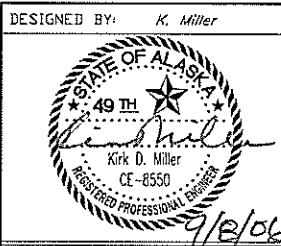
New 16"Ø steel float restraint pile, typ 18 each

Remove existing 10'x480' timber float & 20 timber piles

Survey Control Notes

1. Project vertical control is point #509, a DOT/PF brass cap centerline monument that has an accepted elevation of +25.13' MLLW.
2. Horizontal control is average centerline of the existing timber trestle. Field establish by measuring trestle center at the ends and middle.

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS



CITY OF HOONAH
Hoonah City Float Replacement

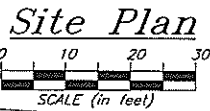
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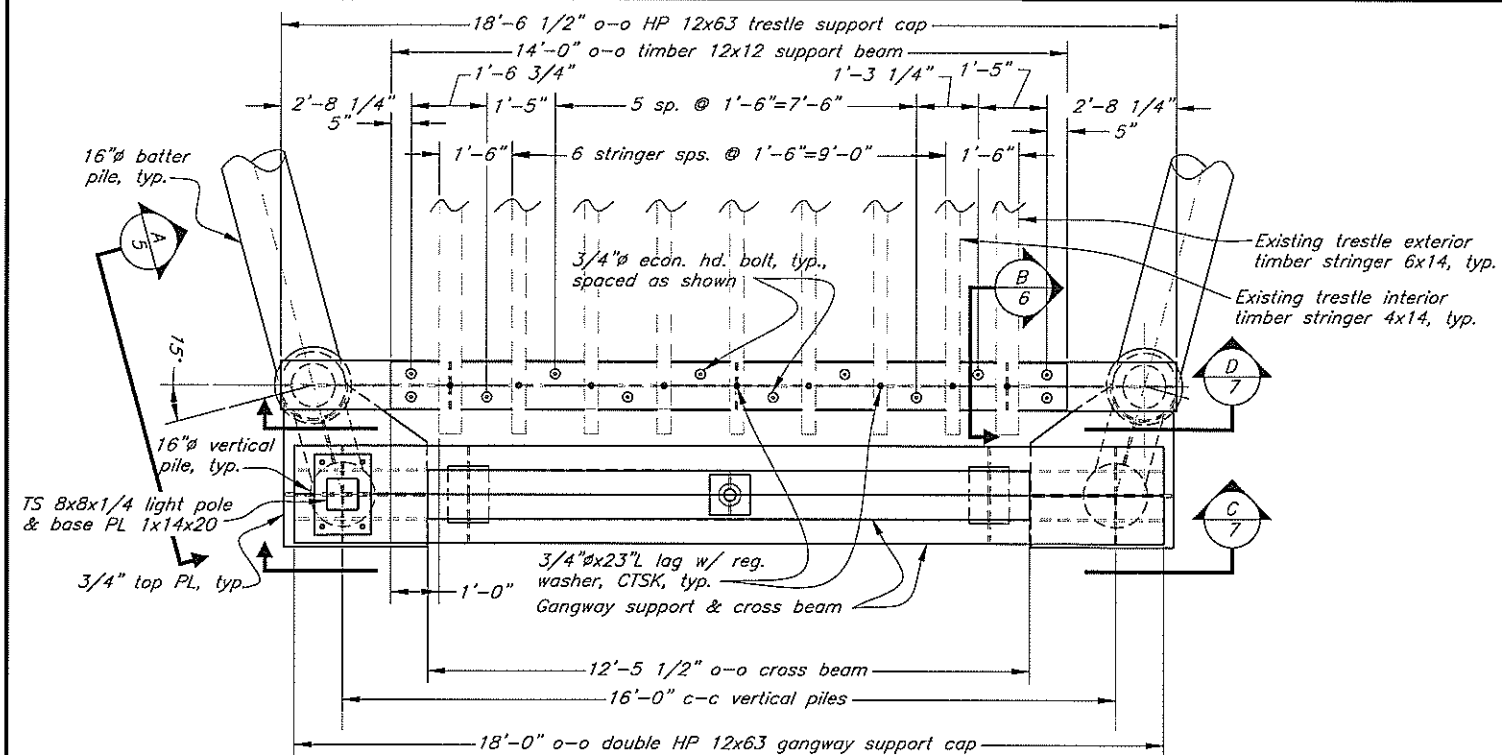
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DRAFTED BY: C. Fuman

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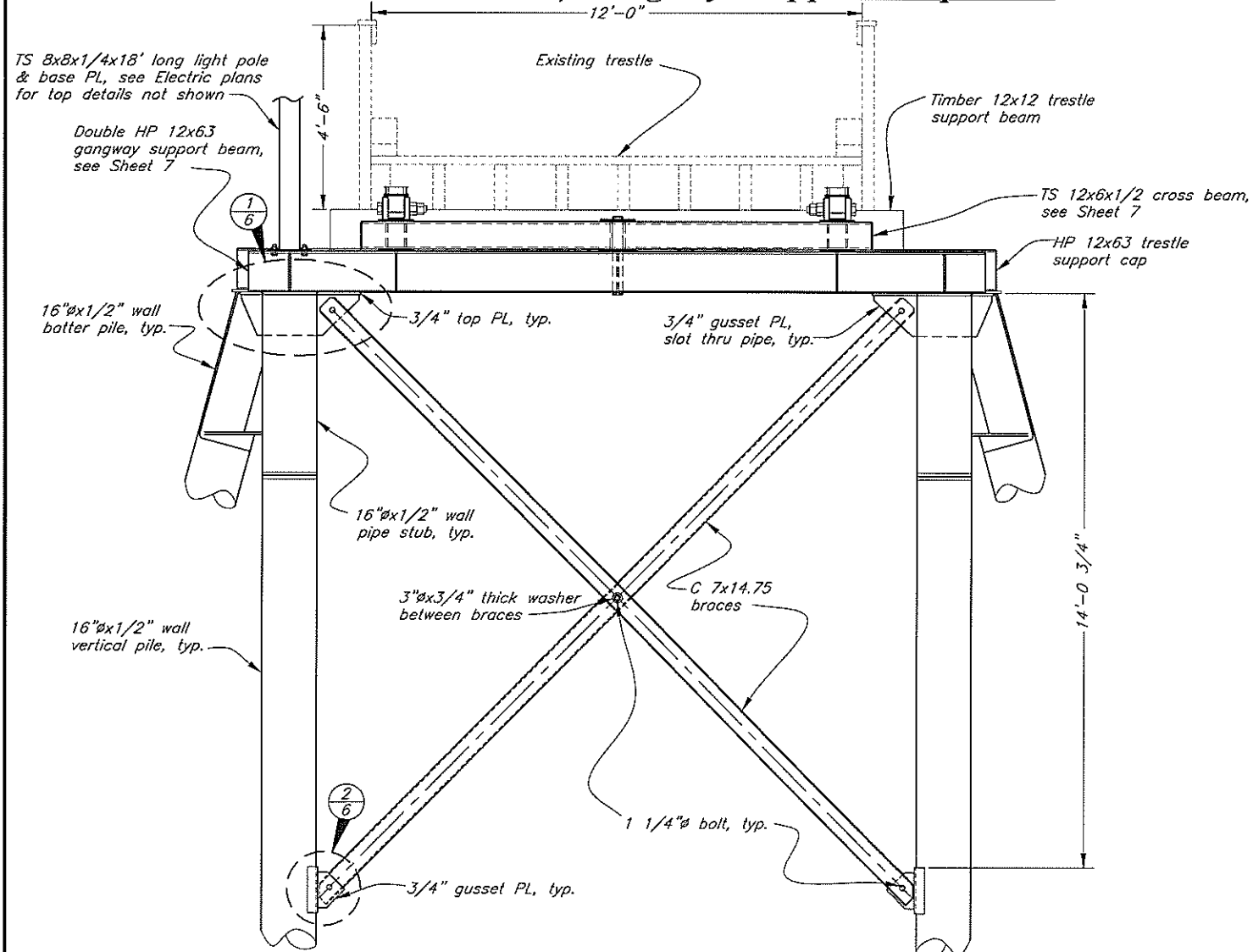
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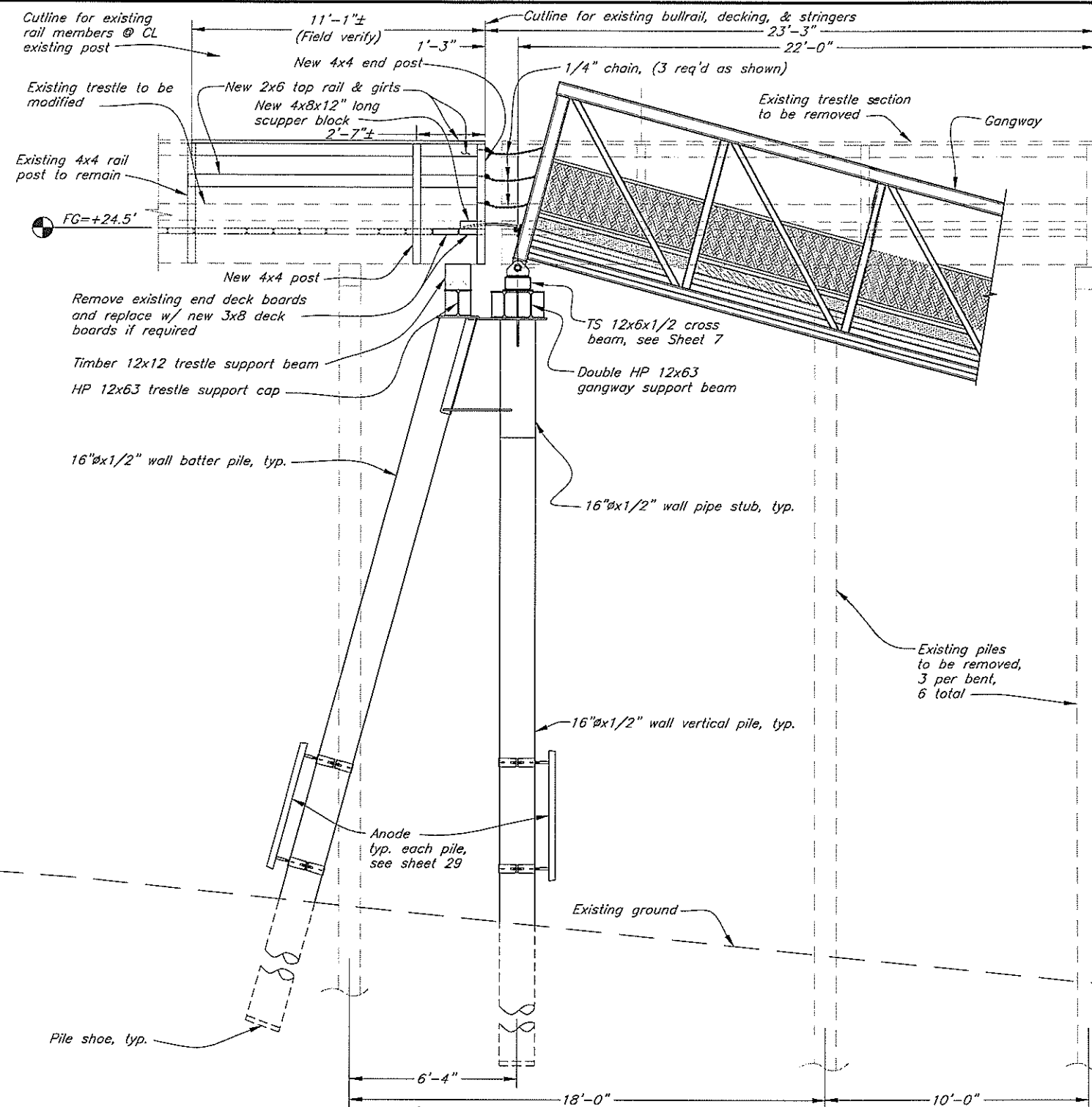




Trestle and Trestle/Gangway Support Cap Plan



Trestle and Trestle/Gangway Support Elevation
(looking shoreward)



Trestle, Trestle/Gangway Support, & Gangway
Side Elevation

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

DESIGNED BY: K. Miller

CHECKED BY: J. Beadle

DRAFTED BY: C. Fuman

PATH: Q:\Hnh\67792\MF\Plans-City Dock\04 Trestle Support.dwg

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REVISIONS

NO.	DATE	DESCRIPTION

CITY OF HOONAH

Hoonah City Float Replacement

Trestle & Gangway Support

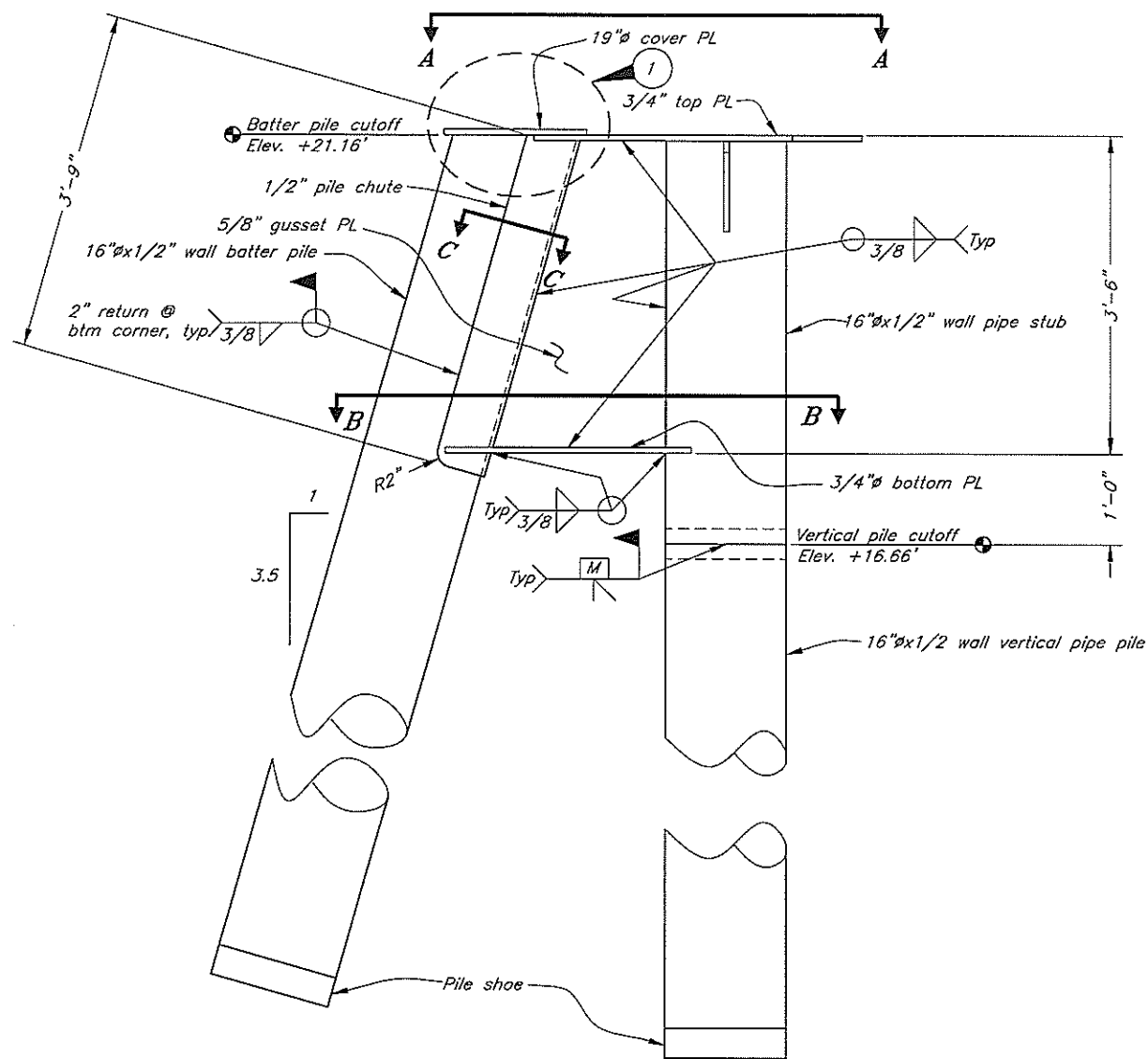
PROJECT DESIGNATION: 67792

YEAR: 2006

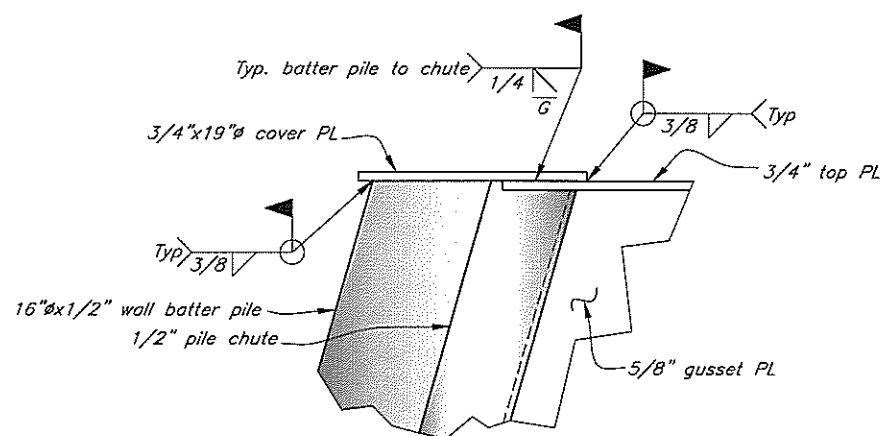
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TOTAL SHEETS: 34

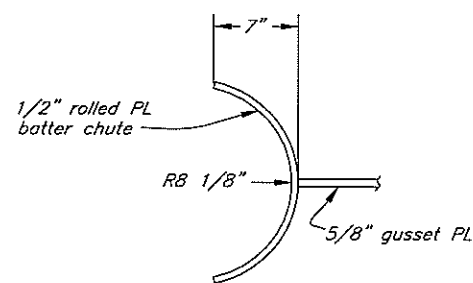
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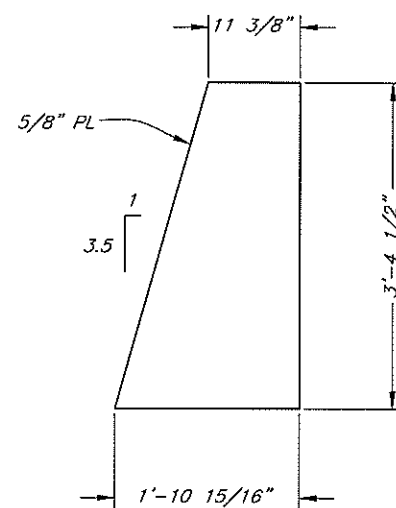
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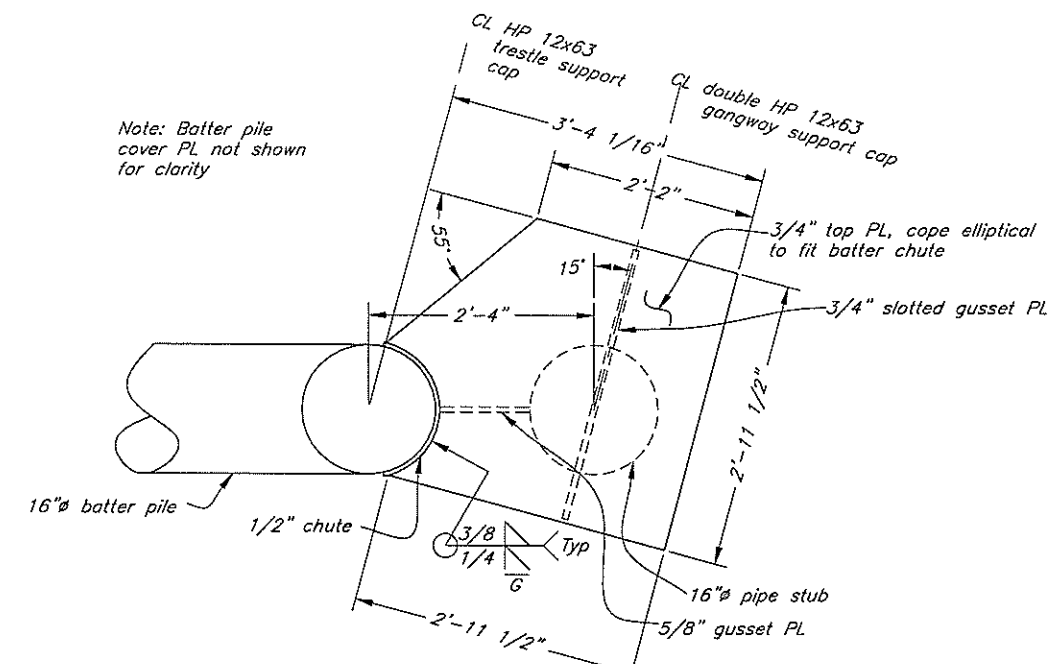
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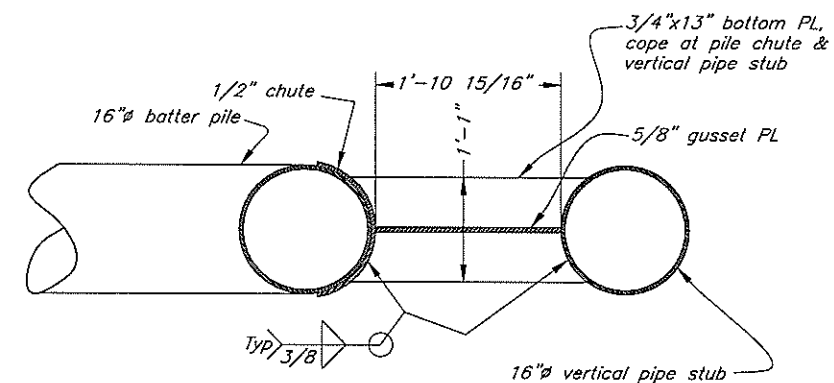
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Batter Chute



5/8" Gusset Plate

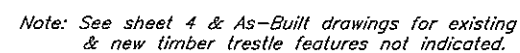


View A-A
Top Plate Plan

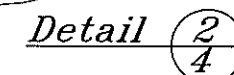
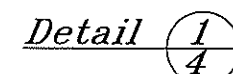


Section B-B
Bottom Plate

DESIGNED BY: K. Miller		DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS			
		CITY OF HOONAH			
		Hoonah City Float Replacement			
CHECKED BY: J. Beadle		Trestle Support Piles			
DRAFTED BY: C. Fuman					
PATH: Q:\Hnh\67792\MF\PlanSet-City Dock\05 Trestle Support Pile.dwg					
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REVISIONS		PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
NO.	DATE	DESCRIPTION	67792	2006	5
					34

Section

<i>B</i>
4

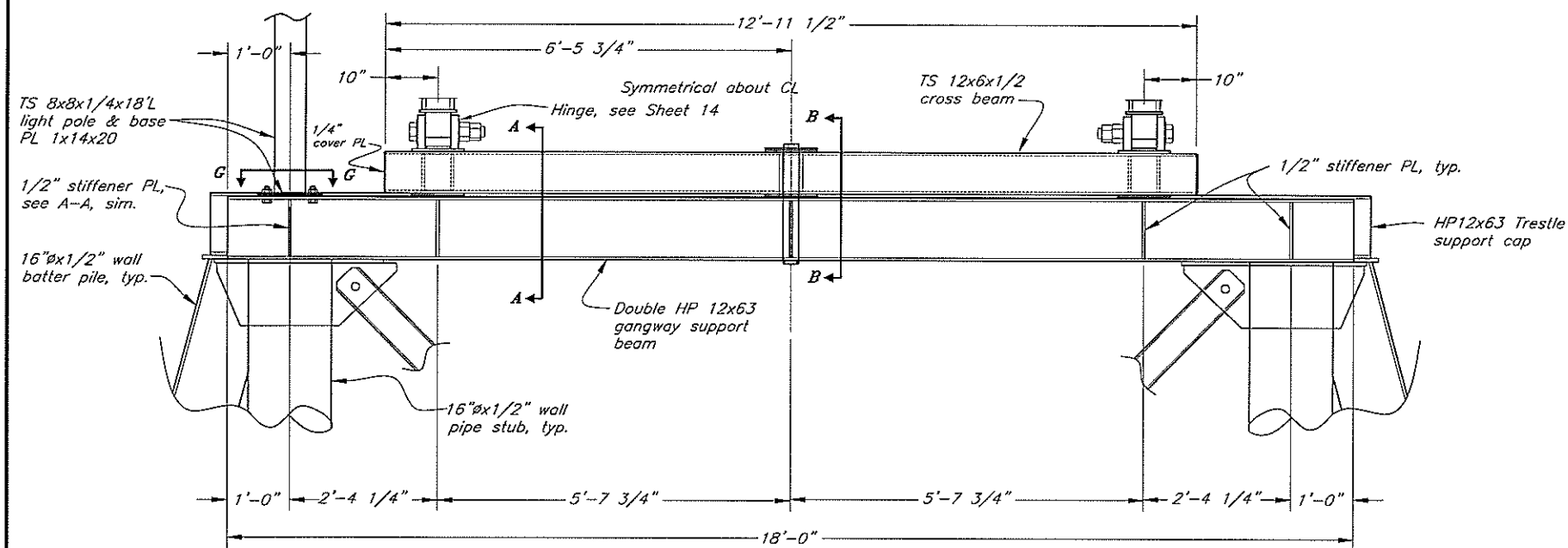


CITY OF HOONAH

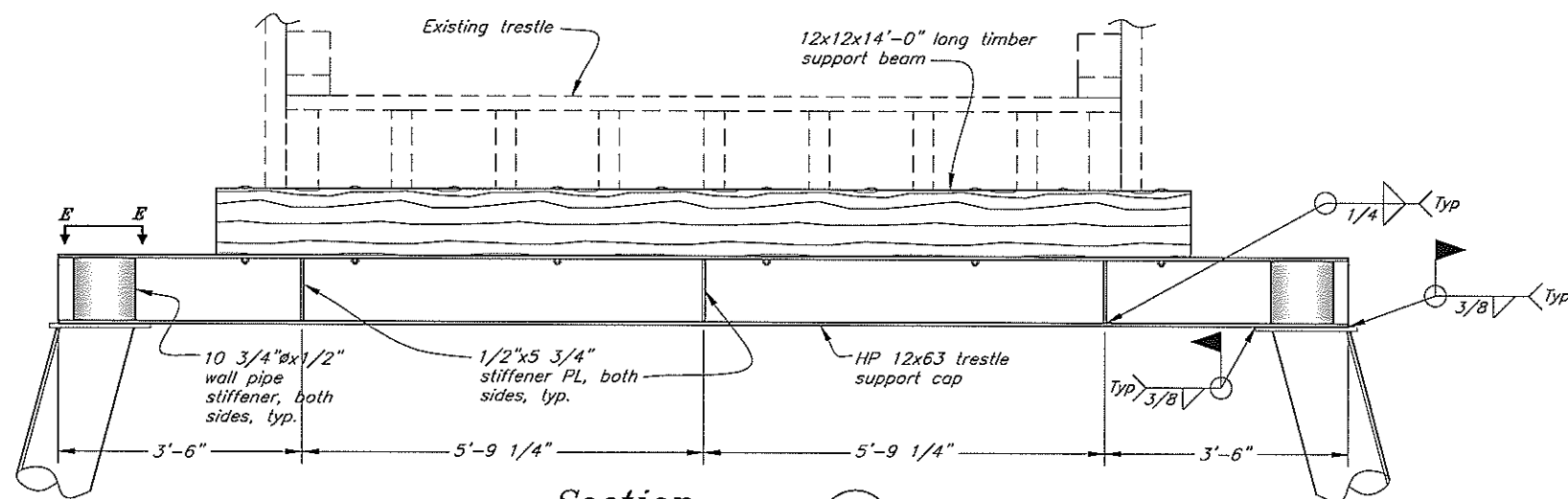
Hoonah City Float Replacement

**Trestle & Gangway
Support Details**

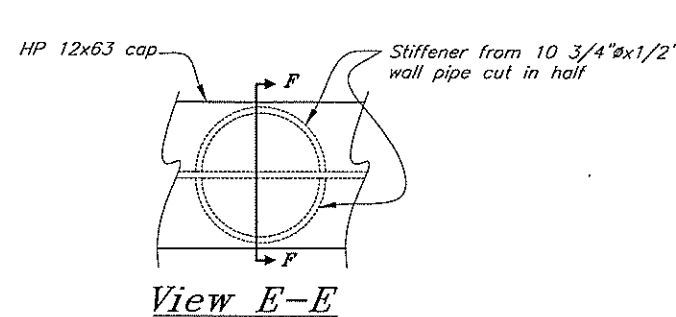
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PLOT: PSPACE 1=1 Tab: Details Wed, 23/Aug/06 01:20PM						
REVISIONS			PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
NO.	DATE	DESCRIPTION	67792	2006	6	34



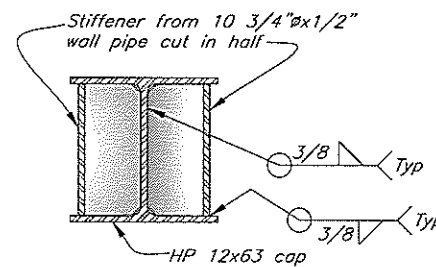
Section C-C
Gangway Support



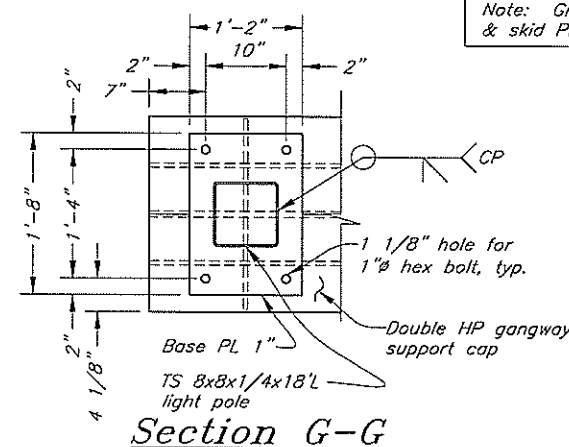
Section D-D
Trestle Support



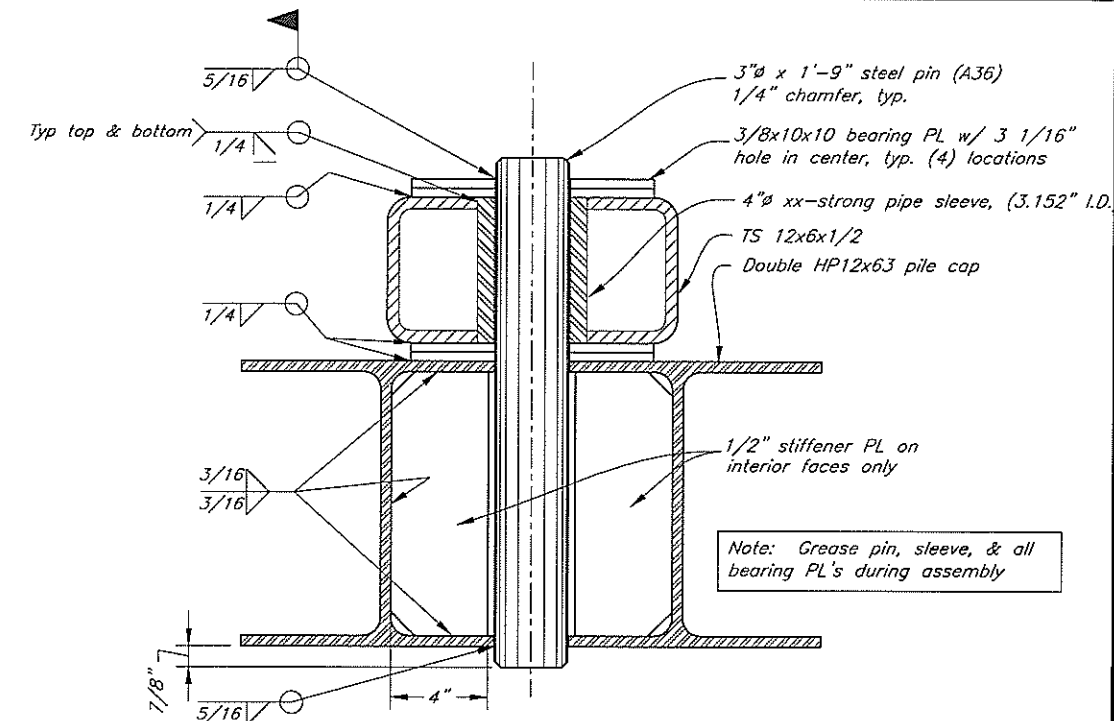
View E-E



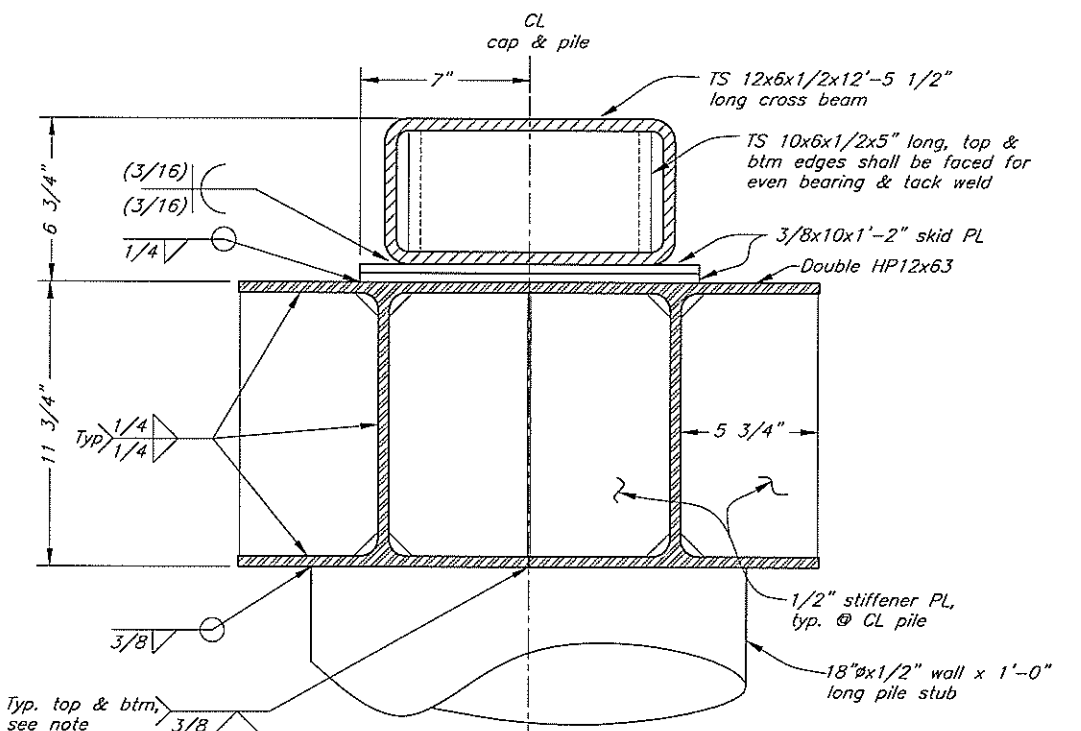
Section F-F



Section G-G



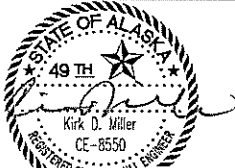
Section B-B

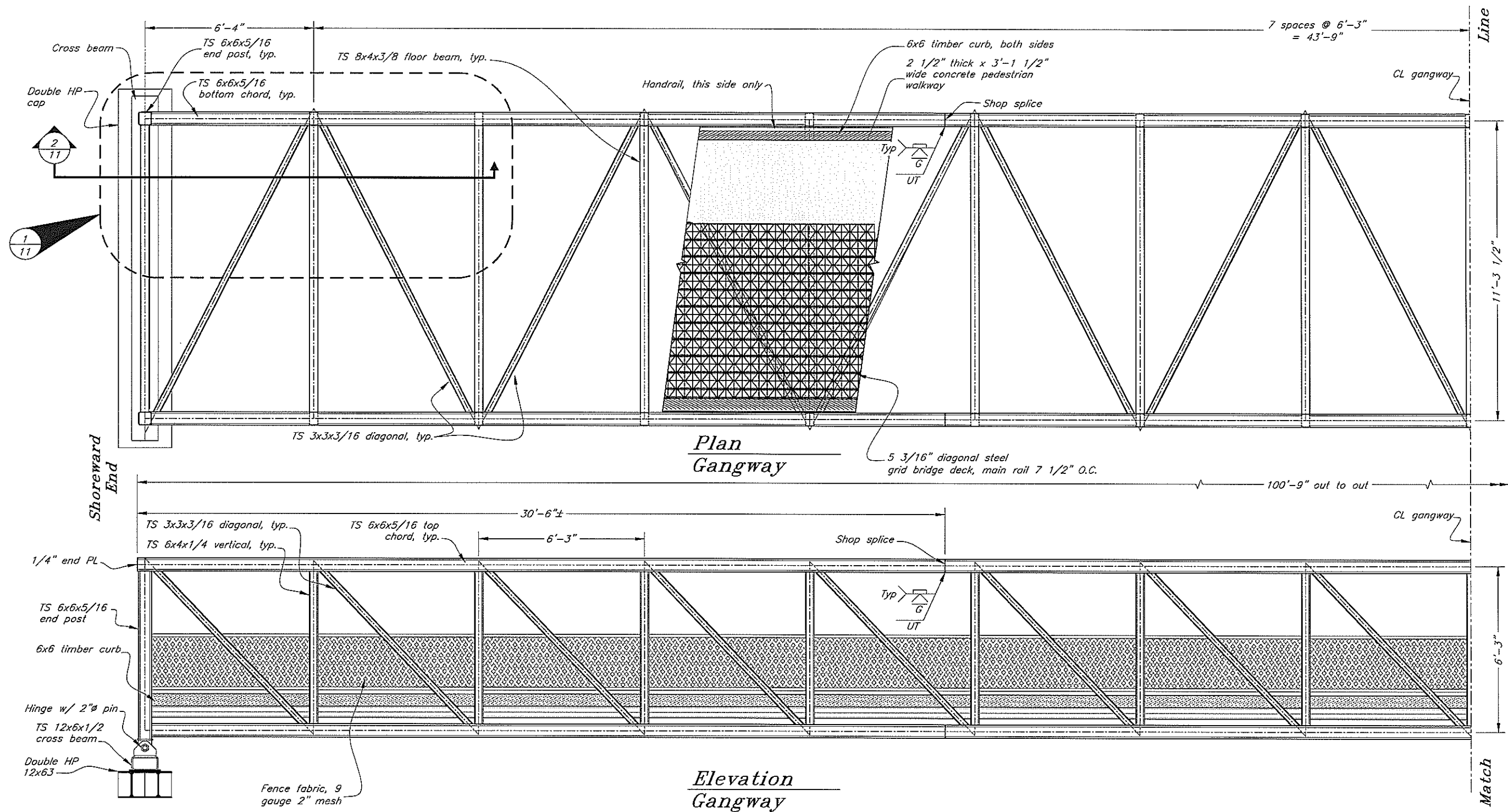


Section A-A

Note: Grind flush at pile & skid PL contact areas.

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

DESIGNED BY: K. Miller		CITY OF HOONAH					
		Hoonah City Float Replacement					
CHECKED BY: J. Beedle		Trestle & Gangway Support Beams & Gangway Cross Beam Details					
DRAFTED BY: Staff/C. Fuman							
PATH: Q:\Hnh\67792\MF\Planset-City Dock\07 Cross Beam details.dwg							
PLOT: PSPACE 1=1 Tab: Cross beam Fri, 08/Sep/06 03:46PM							
REVISIONS							
NO.	DATE	DESCRIPTION		PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
				67792	2006	7	34

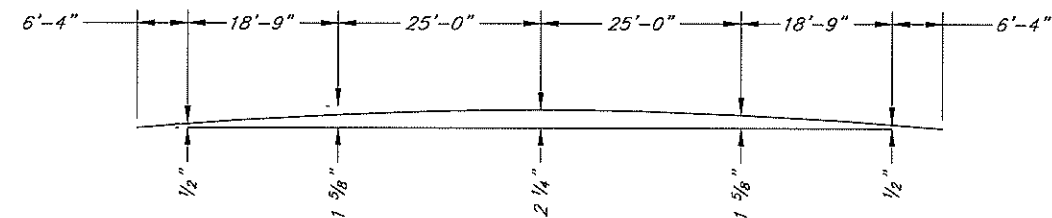
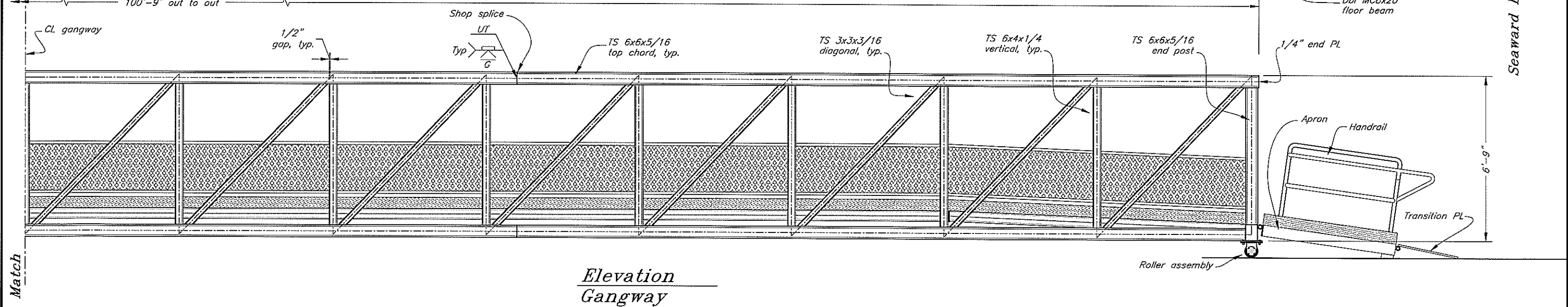
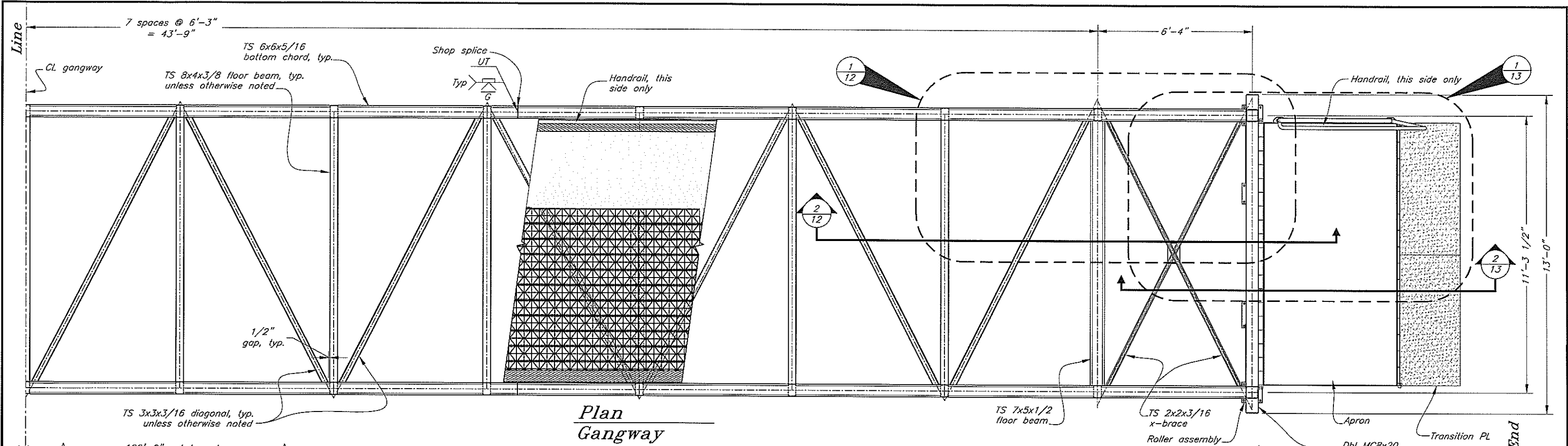


General Notes

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.
8. Weep holes installed to aid in venting during galvanizing shall be plugged if they permit water to enter and accumulate in tubular members.

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

DESIGNED BY: T. Daggett		CITY OF HOONAH			
		Hoonah City Float Replacement			
		Gangway Shoreward End			
CHECKED BY: J. Beedle		PROJECT DESIGNATION			
DRAFTED BY: T. Daggett/T. Mores		YEAR			
PATH: Q:\Hnh\67792\MF\Planset-City Dock\08 Gangway 1.dwg		SHEET NO.			
PLOT: PSPACE 1=1 Tab: Gangway Mon, 11/Sep/06 10:22AM		TOTAL SHEETS			
REVISIONS		67792			
NO.	DATE	DESCRIPTION	2006		
			8		
			34		



Camber Diagram

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

DESIGNED BY: T. Doggett



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

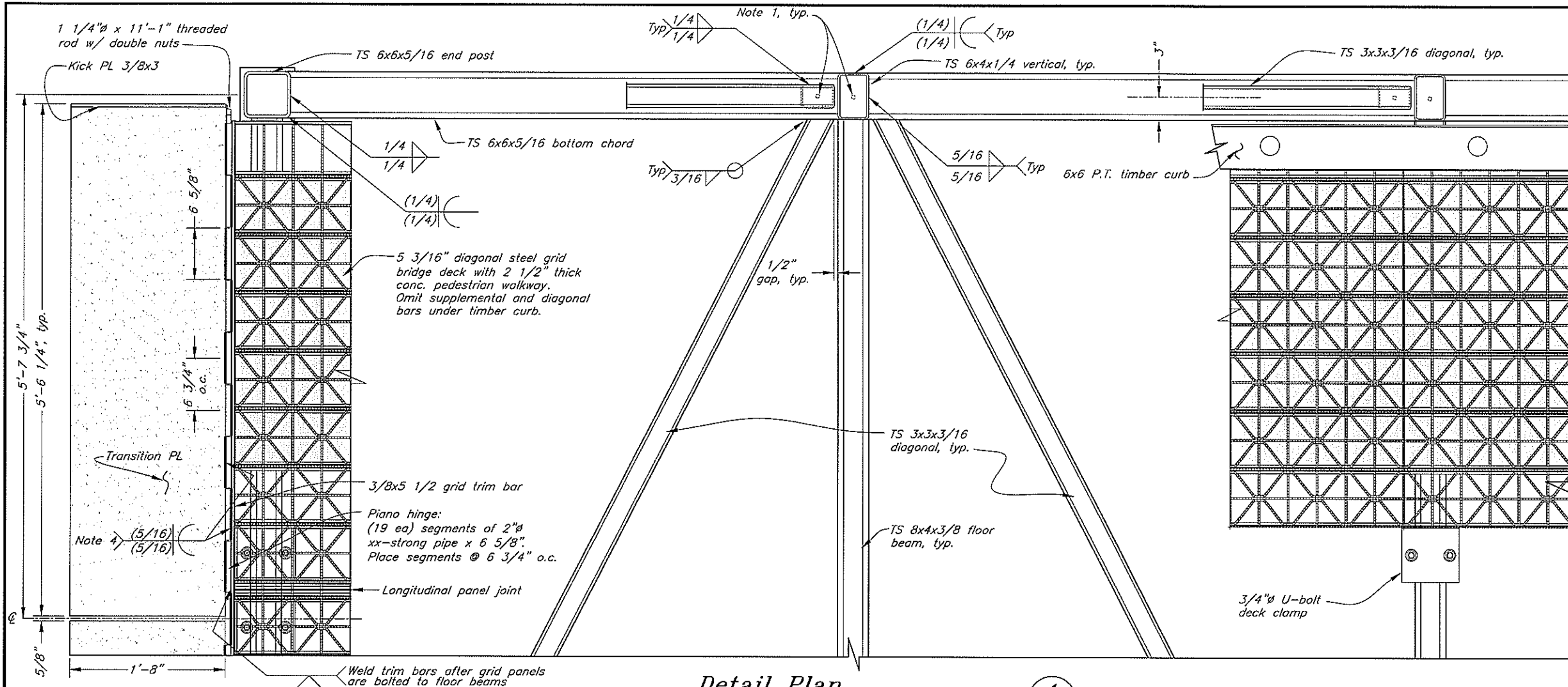
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PLOT: PSPACE 1=1 Tab: Gangway 2 Mon, 11/Sep/06 10:26AM

CITY OF HOONAH

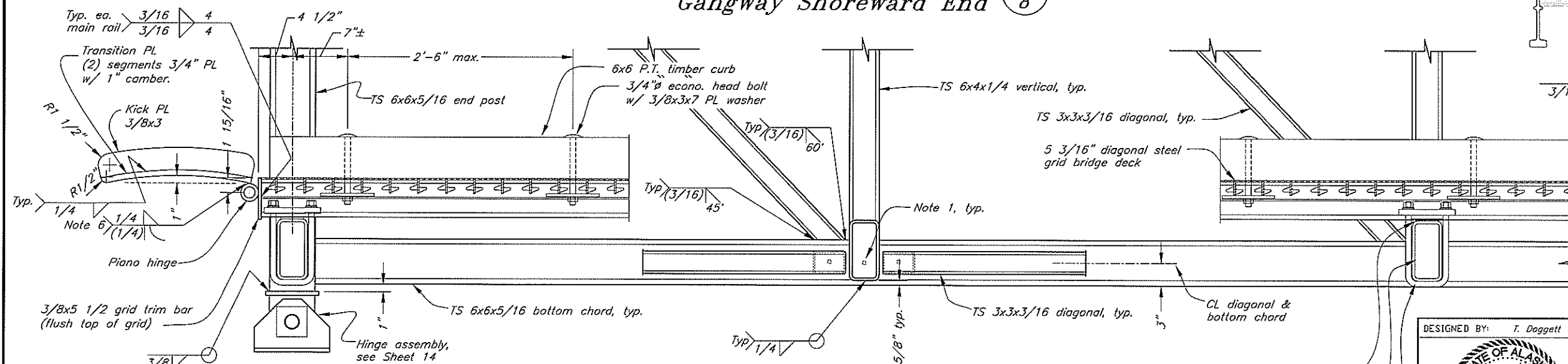
Hoonah City Float Replacement

Gangway Seaward End

NO.	DATE	REVISIONS DESCRIPTION	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			67792	2006	9	34



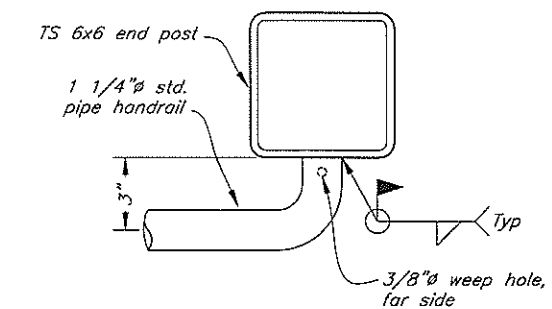
Detail Plan
Gangway Shoreward End 1/8



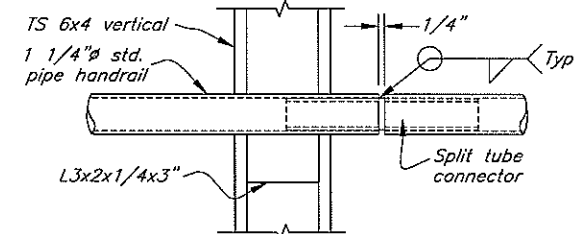
Section
Gangway Shoreward End 2/8

General Notes:

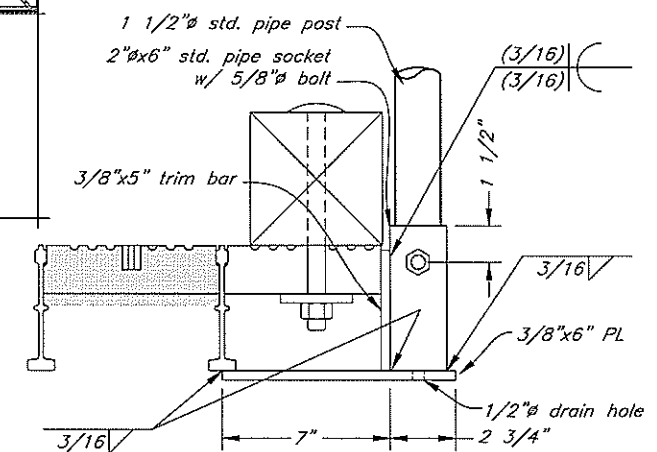
1. Provide 3/8\"
2. Joints and splices in diagonal steel grid decking shall be detailed by the deck fabricator.
3. Wear surfaces of transition plates shall be coated with a non-slip, spray metallized abrasive prior to galvanizing.
4. Weld alternate hinge segments to transition PL and grid trim bar.
5. Weld alternate hinge segments to floor beam and grid trim bar.
6. Weld alternate hinge segments to transition PL.



Handrail Detail 3/10
Typ at both ends of gangway.



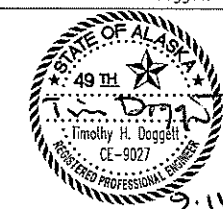
Splice Detail 4/10



Socket Detail 5/13

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

DESIGNED BY: T. Doggett



CHECKED BY: J. Beedle

DRAFTED BY: T. Doggett/C. Fuman

PATH: O:\Hnh\67792\MF\PlanSet-City Dock\11 Gangway Shoreward Details.dwg

PLOT: PSPACE 1=1 Tab: Gangway end details

Mon, 11/Sep/06 11:00AM

REVISIONS		PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
NO.	DATE				
		67792	2006	11	34

CITY OF HOONAH

Hoonah City Float Replacement

Gangway Shoreward
End Details

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

DESIGNED BY: *T. Doggett*

CITY OF HOONAH

Hoonah City Float Replacement

CHECKED BY: *J. Beedle*
DRAFTED BY: *T. Doggett/C. Fuman*

Gangway Seaward
Apron & Transition Plate

PATH: *Q:\Hnh\67792\MF\PlanSet-City Dock\13 Gangway Seaward TP.dwg*
PLOT: PSPACE 1=1 *Tab: GW Details J Mon, 11/Sep/06 10:41AM*

REVISIONS

NO.	DATE	DESCRIPTION

PROJECT DESIGNATION

YEAR

SHEET NO.

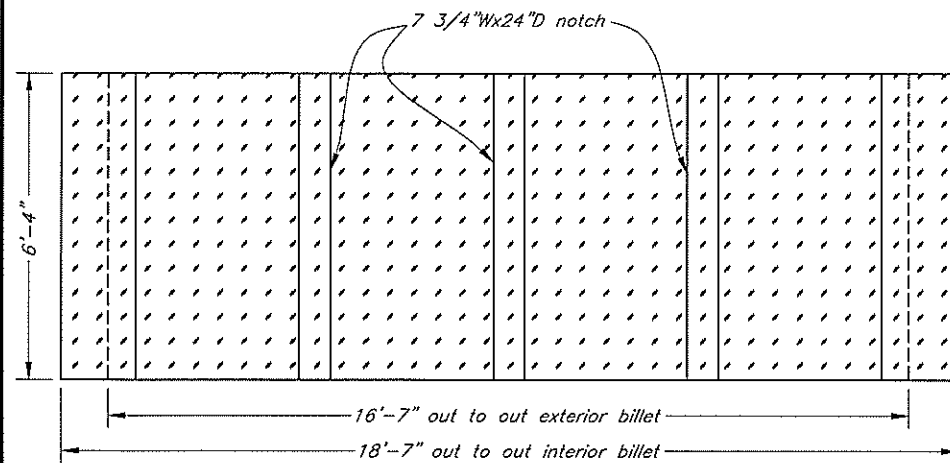
TOTAL SHEETS

67792

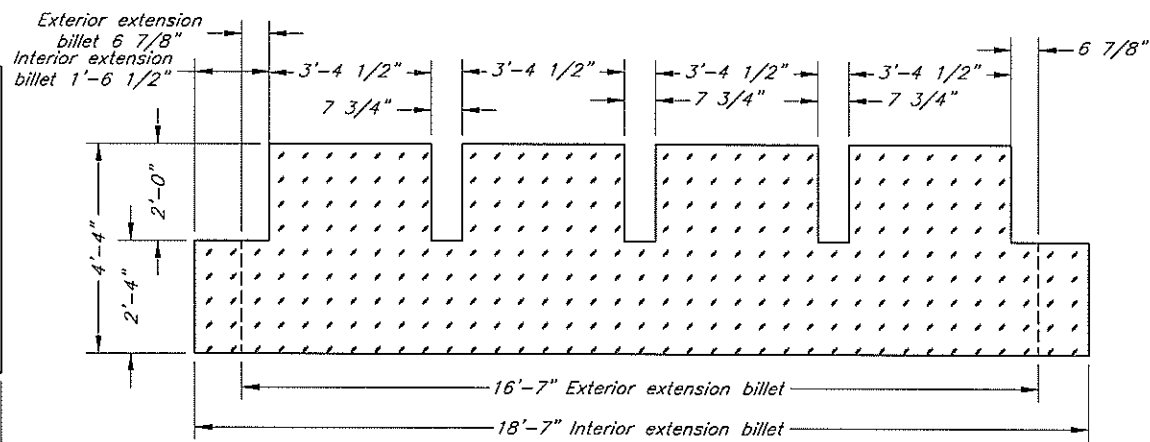
2006

13

34



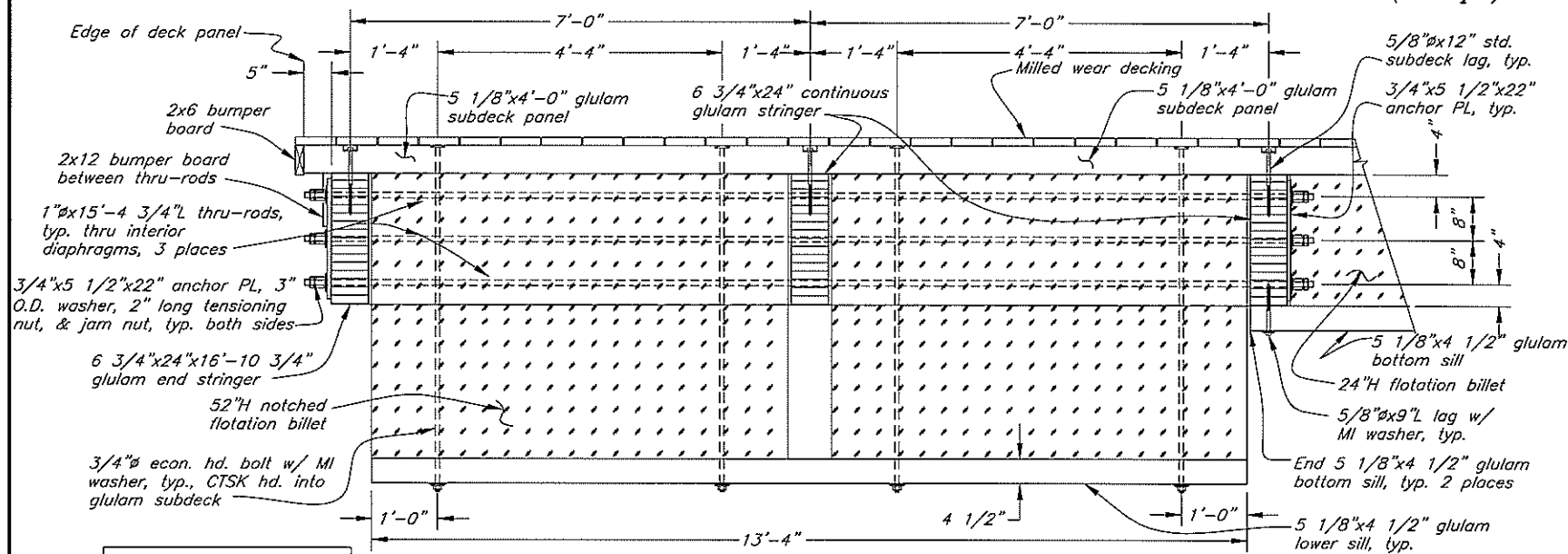
Plan - Notched Extension Flotation Billets



Elevation - Notched Extension Flotation Billets

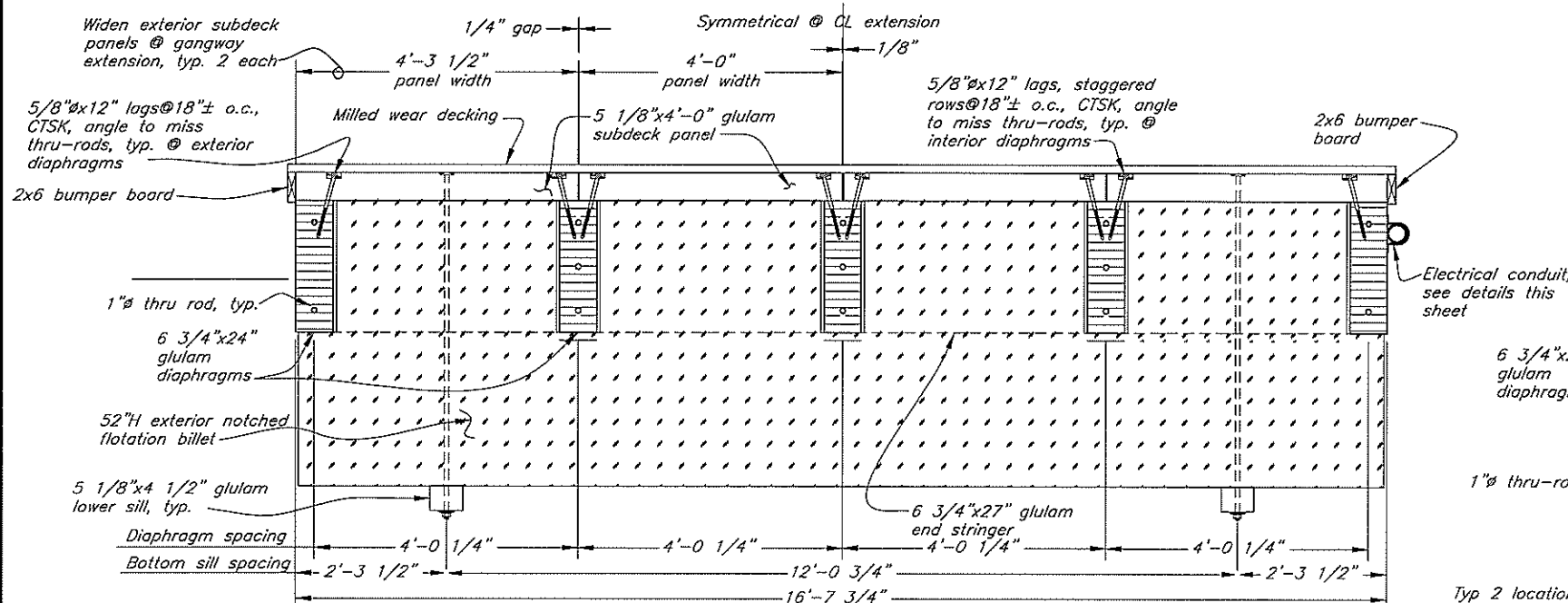
Flotation Billet & Thru-Rod Coupler Notes:

1. Fabricate notched extension billets by fabricating in large of sections as practical and using approved adhesive to combine to the shape shown.
2. Depending on method of float fabrication & assembly, alternative means for obtaining the specified flotation may also be submitted to the Engineer for approval.
3. The maximum length of readily available thru-rods is approximately 50-feet. Construction of the gangway float will require two thru-rods (@ 2 locations) to achieve the specified length and spliced with a coupling nut. This will affect method of float assembly. Suggested thru-rod splice is outlined on Section L. Alternative designs for location and method of splice may be furnished to the Engineer for approval.

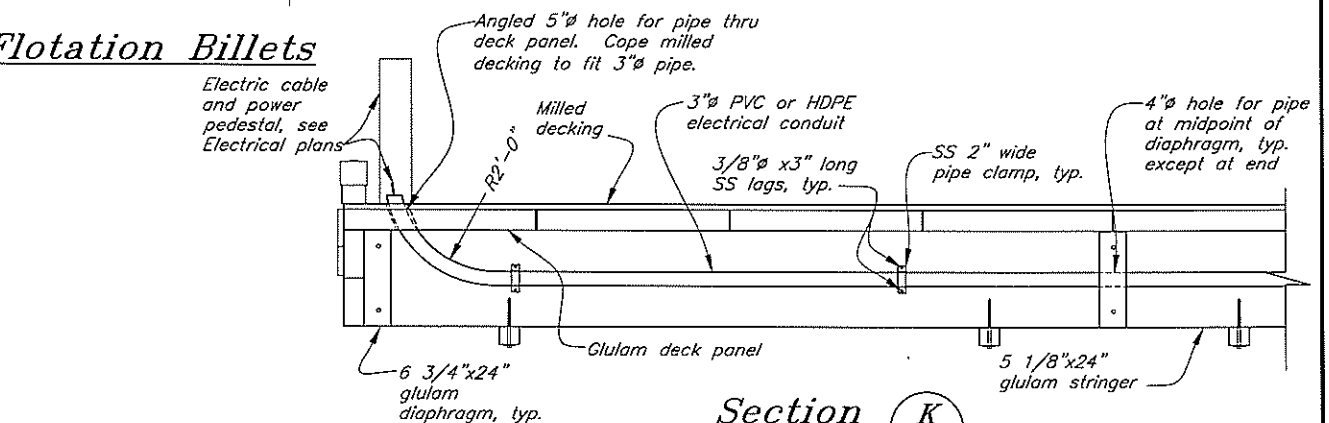


Section G-16

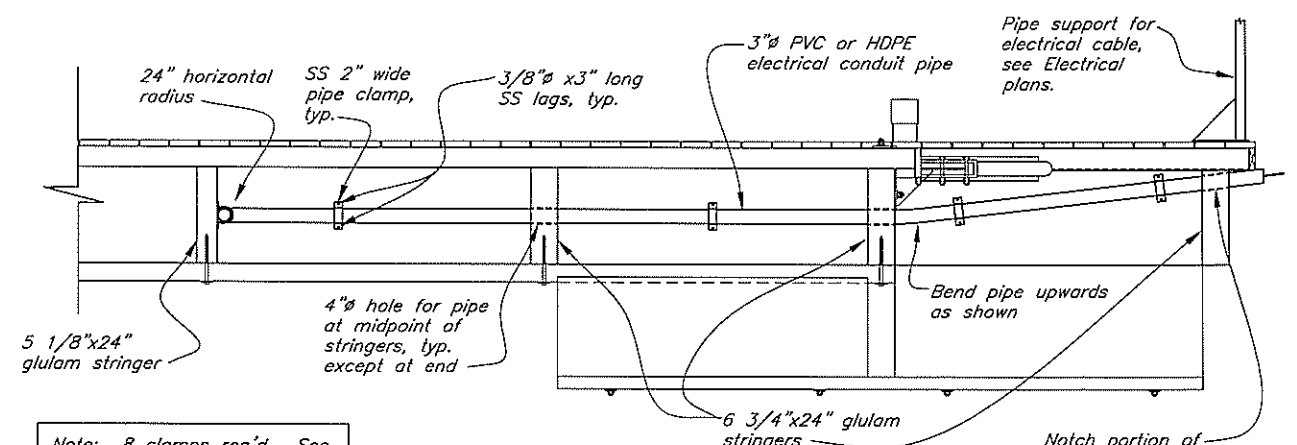
Note: Thru-rod covers not required at extension



Section H-16

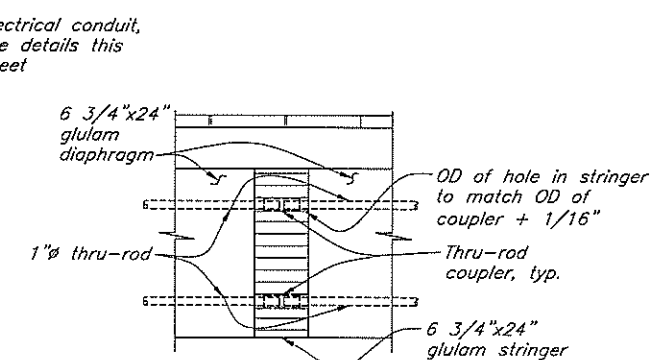


Section K-16



Section J-16

Note: 8 clamps req'd. See details this sheet and Sheet 16 for approximate locations as shown.



Typ 2 locations. Also see Note 3, this sheet.

Section L-16 Thru-rod Coupler

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

DESIGNED BY: K. Miller

CITY OF HOONAH

Hoonah City Float Replacement

Gangway Float Extension Framing & Conduit Details

CHECKED BY: J. Beedle

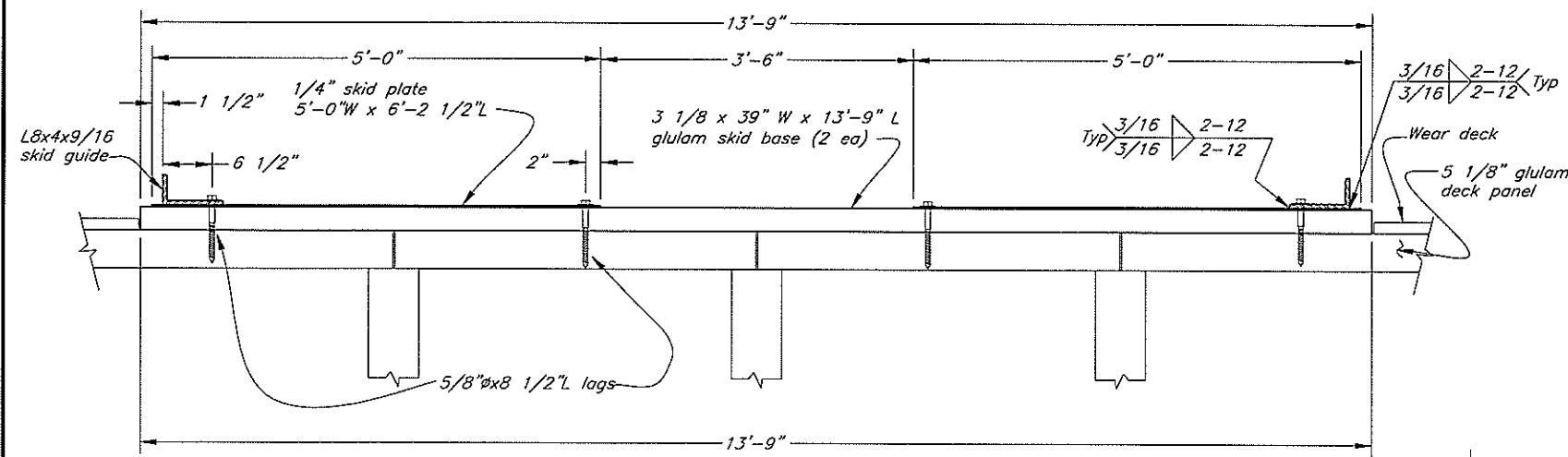
DRAFTED BY: C. Fuman

PATH: Q:\Hnh\67792\MF\Plans-City Dock\17 GW float ext framing.dwg

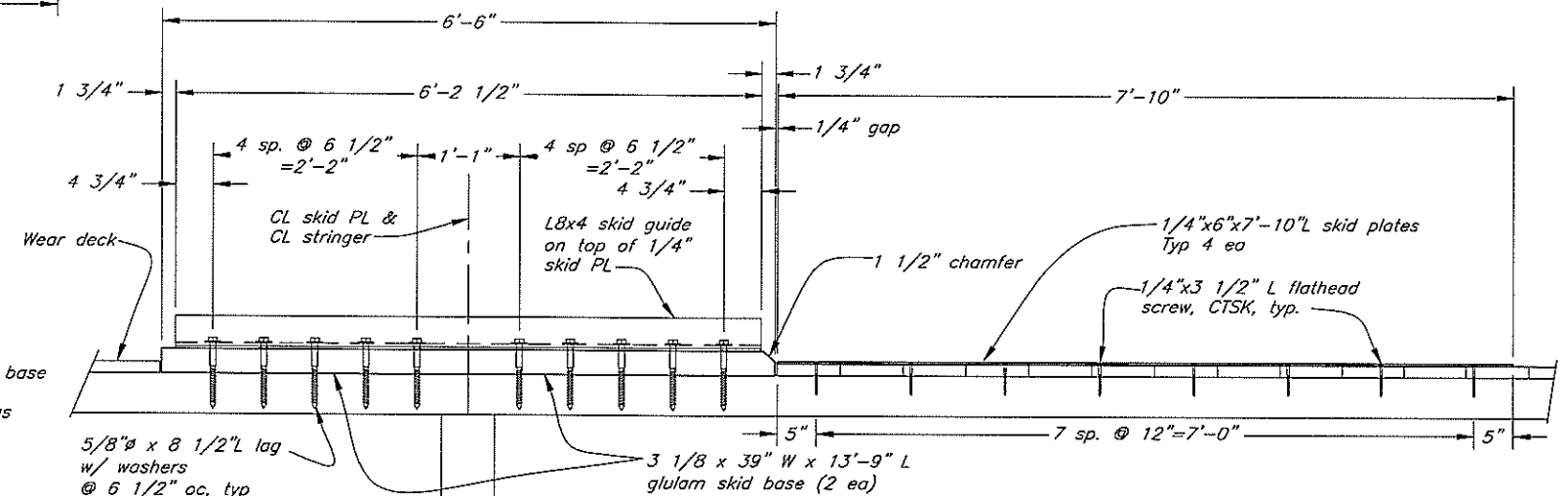
PLOT: PSPACE 1=1 Tab: Ext. Framing Thu, 07/Sep/06 01:57PM

9/8/06

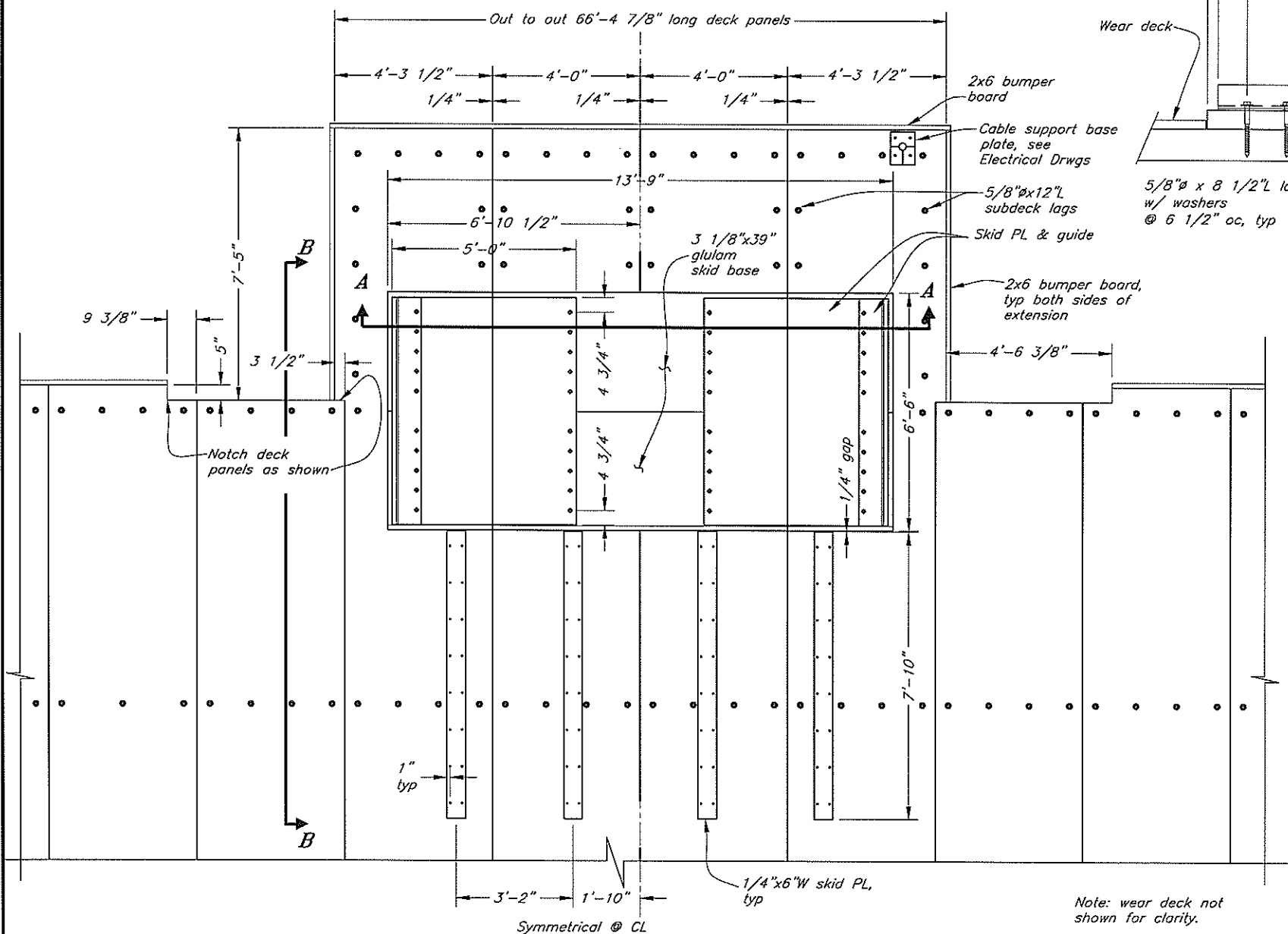
REVISIONS			PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
NO.	DATE	DESCRIPTION				
			67792	2006	17	34



Skid Section A-A



Skid Side Elevation B-B



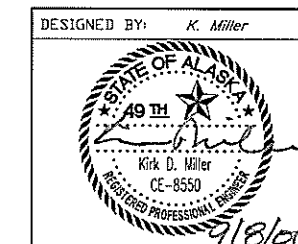
**Float Extension Gangway Skid Plan
& Deck Panel Cutouts**

Note: wear deck not shown for clarity.

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.

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

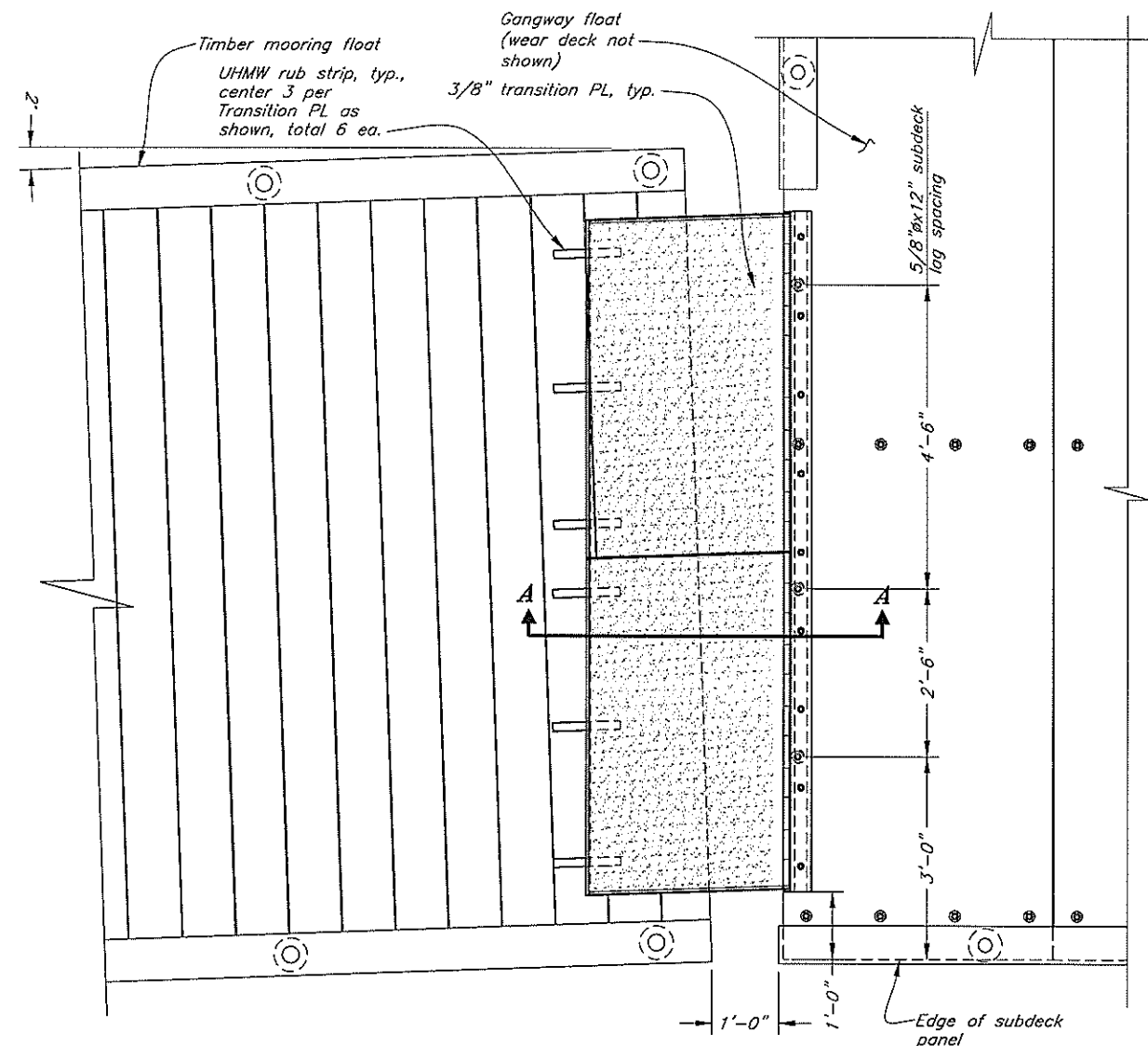


CHECKED BY: J. Beedle
DRAFTED BY: C. Fuman

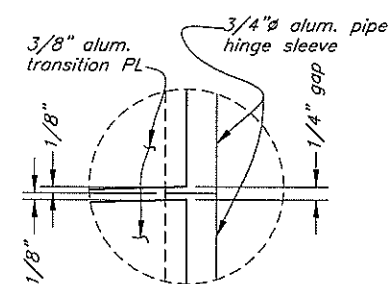
PATH: Q:\Hnh\67792\MF\PlanSet-City Dock\18 GW float Skid PL.dwg
PLOT: PSPACE 1=1 Tab: Extension Deck

Fri, 01/Sep/06 06:34PM

NO.	DATE	REVISIONS DESCRIPTION	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			67792	2006	18	34

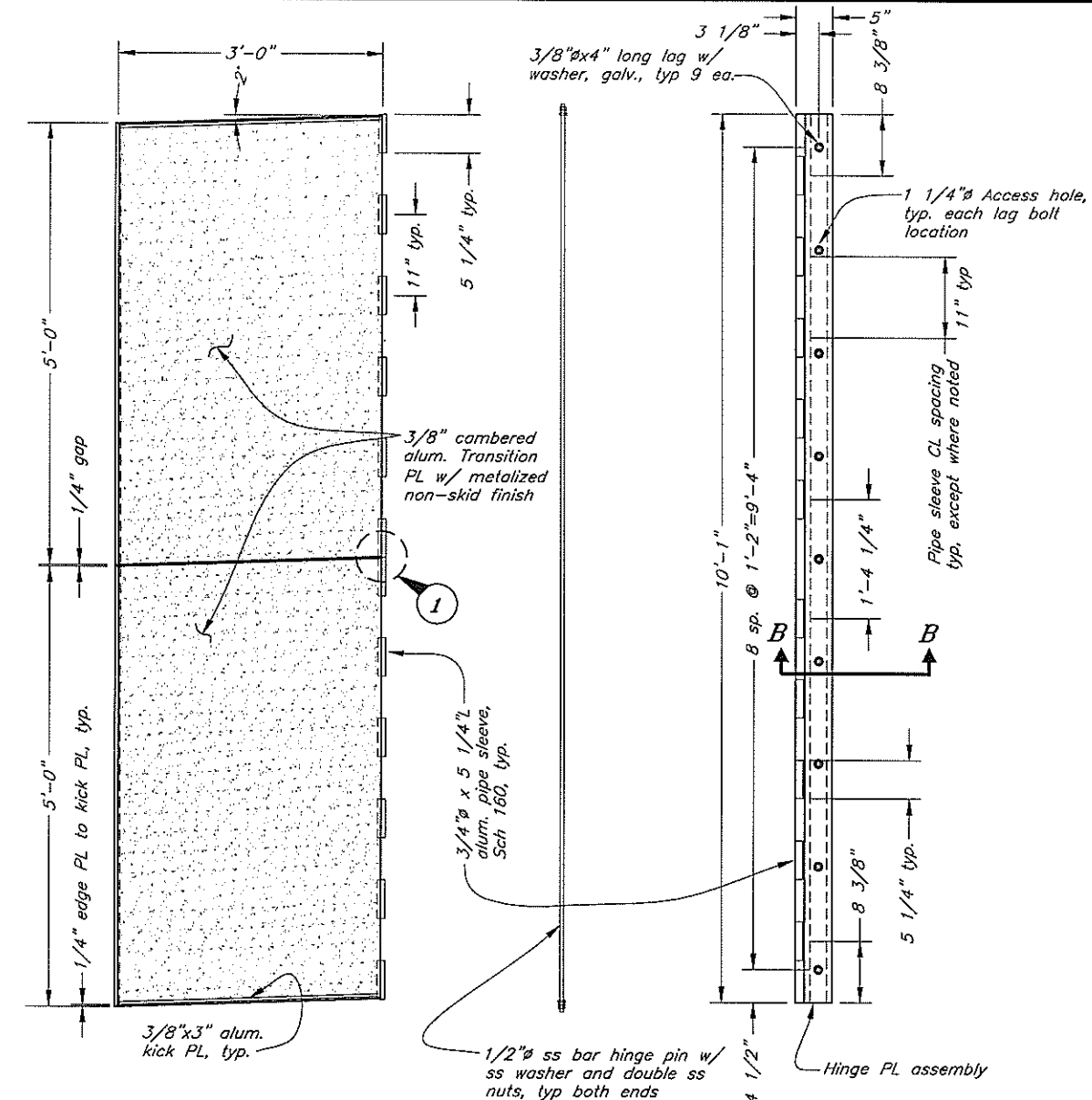


Mooring Float to Gangway Float Transition PL Plan

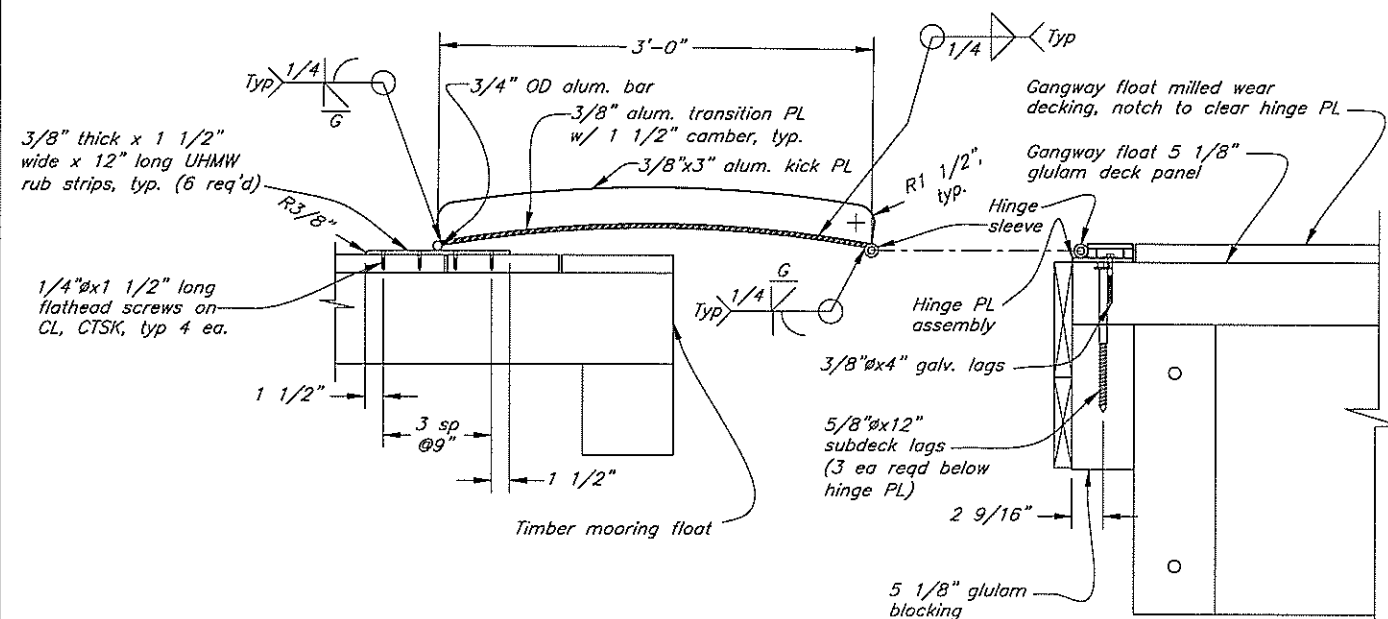


Note: Hinge sleeves extend beyond transition PL's 1/8" to create 1/4" gap between PL's

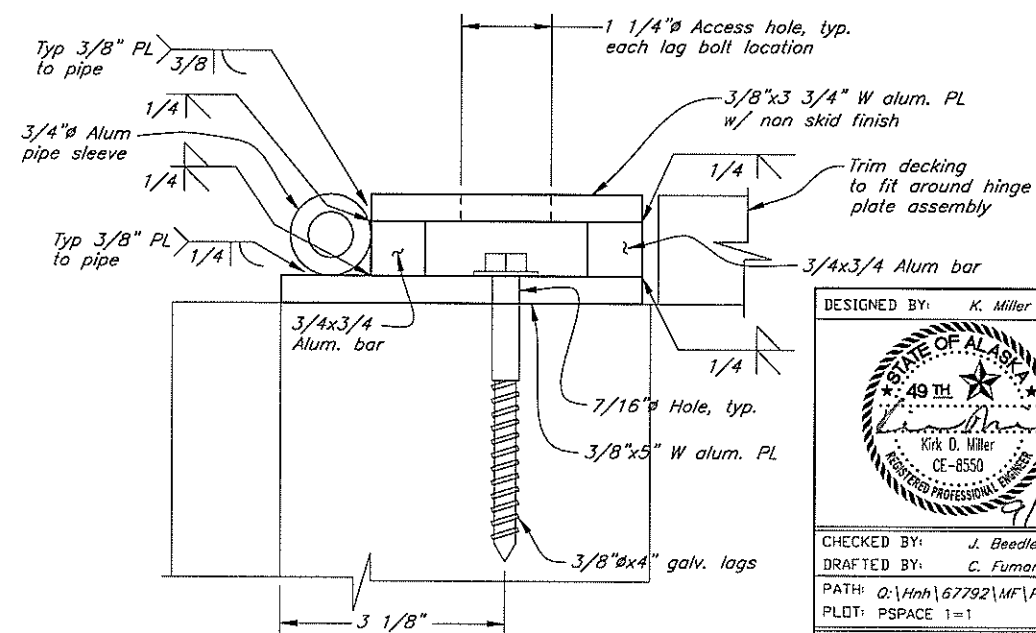
Detail 1



Transition PL Details



Section A-A



Section B-B

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

DESIGNED BY: K. Miller	
CHECKED BY: J. Beedle	
DRAFTED BY: C. Fuman	
PATH: Q:\Hnh\67792\MF\PlanSet-City Dock\19 Main to Log Float Trans PL.dwg	
PLOT: PSPACE 1=1 Tab: Trans PL Wed, 23/Aug/06 01:18PM	
REVISIONS	
NO.	DATE DESCRIPTION

CITY OF HOONAH	
Hoonah City Float Replacement	
Main Float to Mooring Float Transition Plate	
PROJECT DESIGNATION	YEAR
67792	2006
SHEET NO.	TOTAL SHEETS
19	34

Pile Collar Plan - Type I
Type 1 A shown - 2 req'd
Type 1B opposite hand - 3 req'd

Elevation A-A

Section C-C

Section B-B

DO NOT SCALE FROM THESE DRAWINGS OR DIMENSIONS

DESIGNED BY: *K. Miller*

A circular professional engineer seal for the State of Alaska. The outer ring contains the text "STATE OF ALASKA" at the top and "REGISTERED PROFESSIONAL ENGINEER" at the bottom. Inside the ring, there is a five-pointed star with "49 TH" written below it. Below the star, the name "Kirk D. Miller" and the license number "CE-8550" are printed. A handwritten signature is written across the seal, and the date "9/18/06" is handwritten at the bottom.

CITY OF HOONAH

Hoonah City Float Replacement

**Gangway Float
Pile Collar - Type 1**

CHECKED BY: *J. Beedle*

DRAFTED BY: *C. Fumon*

PATH: *Q:\Hnh\67792\MF\PlanSet-City Dock\20 GW float Pile collar 1.dwg*

PLOT: PSPACE 1=*1*

Tab: *Int Pile Collar 1*

Fri, 08/Sep/06 01:35PM

REVISIONS

NO	DATE	DESCRIPTION

PROJECT DESIGNATION

67792

YEAR

2006

SHEET NO

20

TOTAL SHEETS

34

Note: Wear decking not shown for clarity. Notch at decking around collar same.

Dimensions:

- Overall width: 6'-0"
- Overall height: 6'-0"
- Cutout diameter: R1'-1 1/2"
- Deck cutout radius: R1'-1 1/2"
- Base plate size: 1/2 x 3'-6" x 3'-10 7/8"
- Stiffener plate size: 1/2"

Components and Callouts:

- 3/4" ϕ econ. hd. bolt w/ nut & jam nut, install nuts up
- Typical countersunk deck panel lag under PL
- Stringer
- Blocking
- Hole for 3/4" ϕ tie-down rail bolt
- MI washer, nut/jam nut, typ.
- 3/4" ϕ x 5 1/2" lag w/ washer, typ. except where noted
- Base PL 1/2 x 3'-6" x 3'-10 7/8"
- Stiffener PL 1/2"
- 3/4" ϕ bolt w/ washer
- 3/4" ϕ bolt
- 1/2" face PL

[illegible]

20'-1 3/4"

Symmetrical @ CL of cap & gangway float

HP 12x63 cap

1 1/4" PL, typ.

18" ϕ x 1/2" wall pipe pile, typ.

Gangway float pile seaward side

1

[illegible]

1 1/2" UHMW, chamfer inside corners 1/4"

2" rubber

1 1/2"

1/2"x29" ID rolled PL. Close seam w/ full pen weld, typ.

1/4" Typ

Stiffener PL 1/2"

6"

1 1/2"

6 1/2"

4"

1 1/4"

3/8"Øx4" elevator bolts w/ washer, nut, & jam nut. Countersink 3/8". Space 10 bolts per half collar evenly, as shown on plan

1 1/4"

Base PL 1/2"

1"

4"

5 1/8" glulam deck, provide 2'-3"Ø cutout for collar

Gangway Float Pile Cap

DESIGNED BY: *K. Miller*



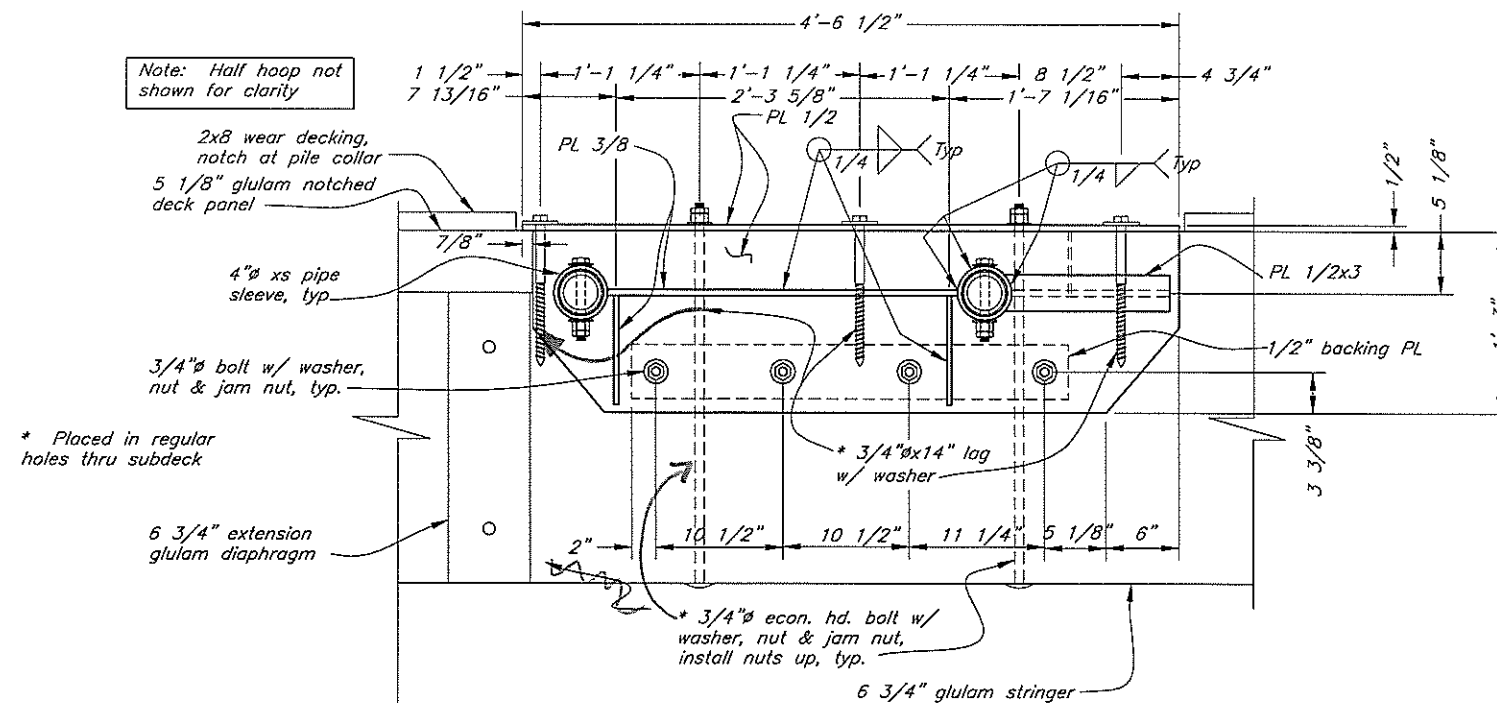
CHECKED BY: *J. Beedle*

DRAFTED BY: *C. Fuman*

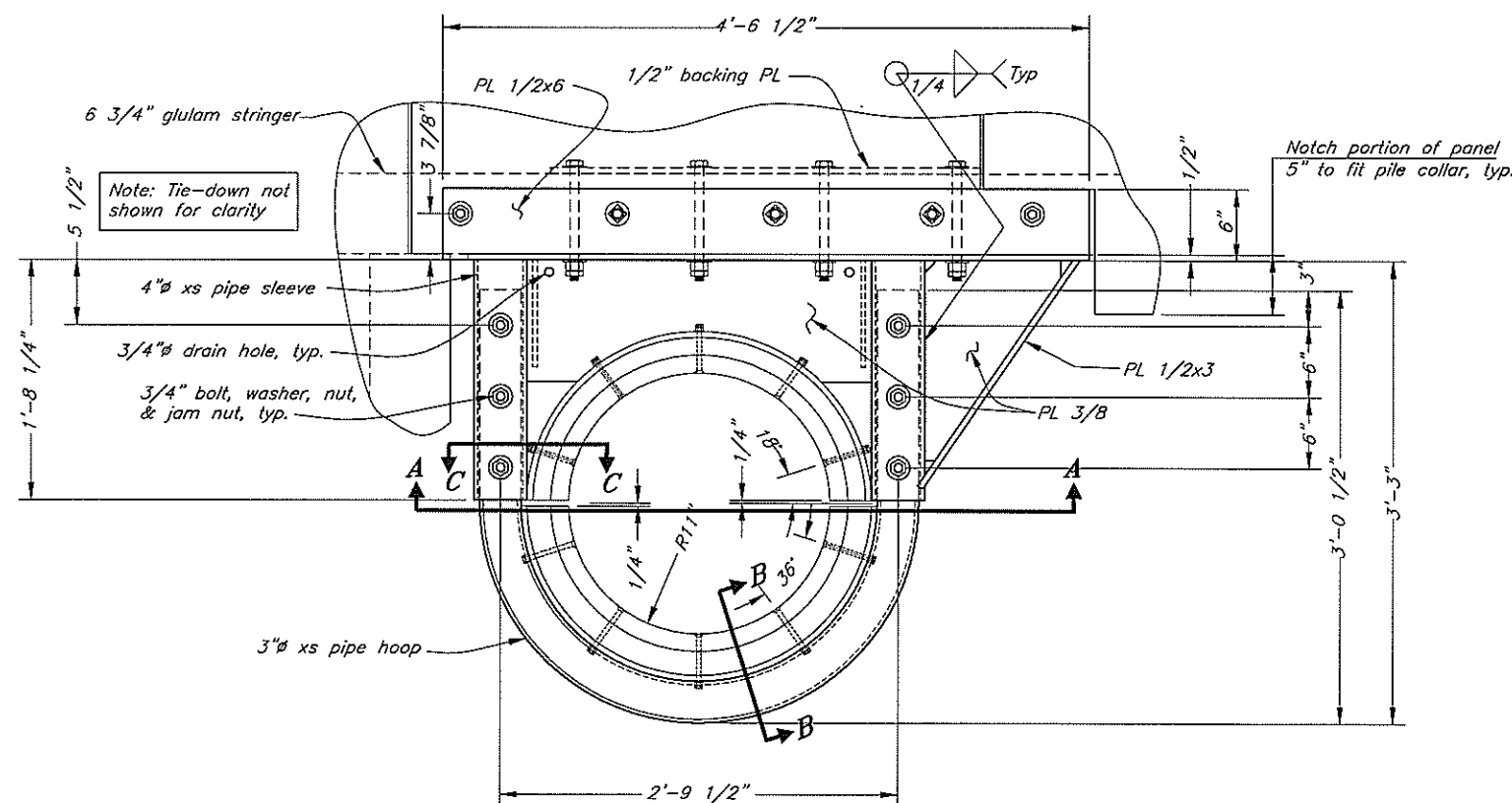
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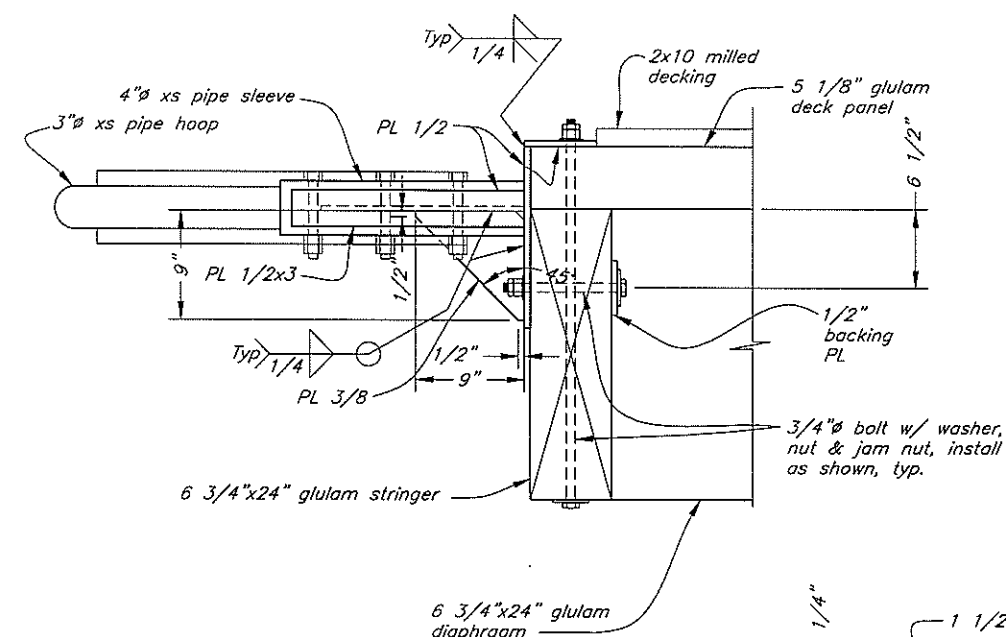
REVIEWS			PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
NO	DATE	DESCRIPTION				
			67792	2006	21	34



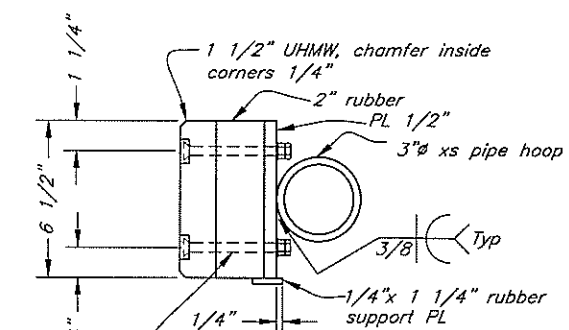
Section A-A



Pile Collar Plan - Type 3
(2 req'd, 1 as shown, 1 opposite hand)

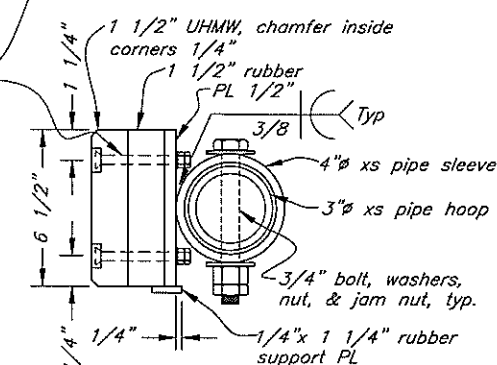


Side View



Section B-B

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



Section C-C

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

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

DESIGNED BY: K. Miller

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

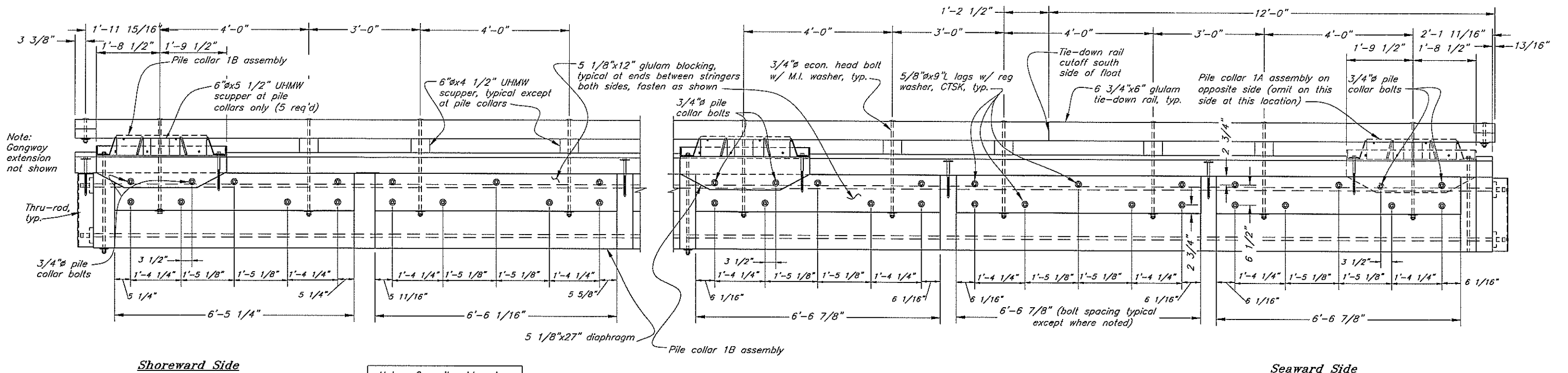
PATH: Q:\Hnh\67792\MF\PlanSet-City Dock\22 GIV float Pile collar 3.dwg
PLOT: PSPACE 1=1 Tab: Pile Collar 3 Wed, 23/Aug/06 01:17PM

CITY OF HOONAH

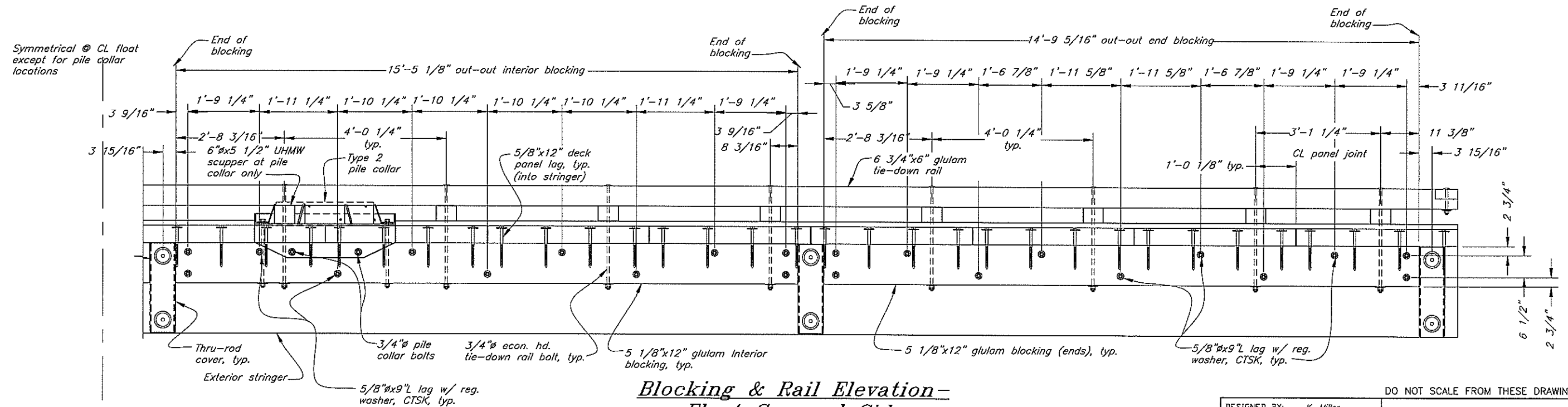
Hoonah City Float Replacement

**Gangway Float
Pile Collar Type 3**

REVISIONS				PROJECT DESIGNATION		YEAR	SHEET NO.	TOTAL SHEETS
NO.	DATE	DESCRIPTION		67792		2006	22	34



Blocking & Rail Elevation - Float Sides

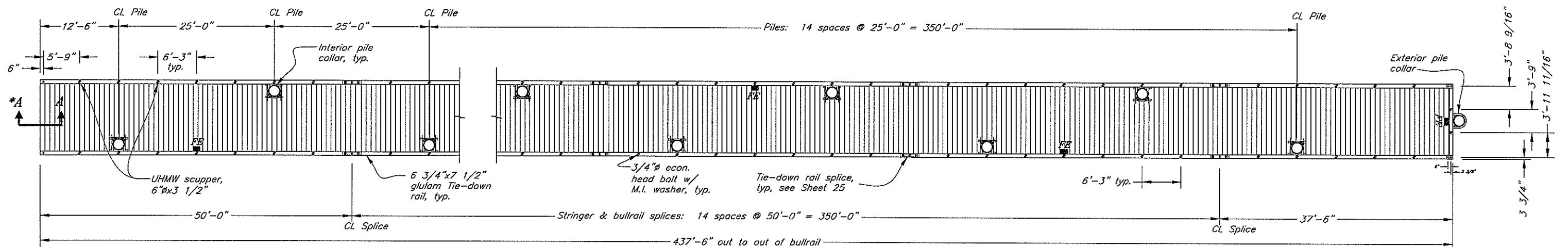
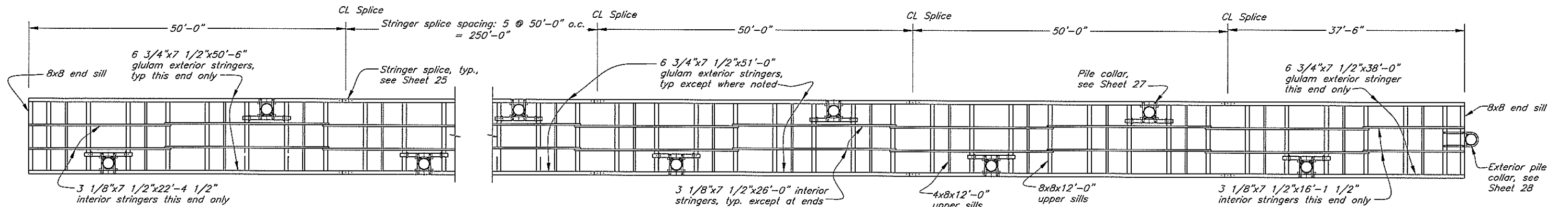
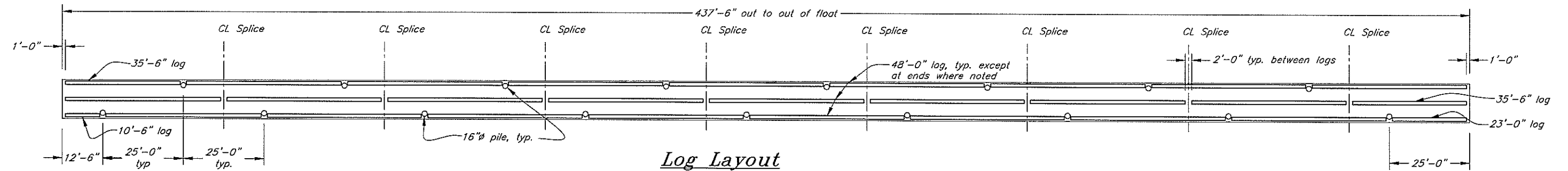


Blocking & Rail Elevation - Float Seaward Side

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

DESIGNED BY: K. Miller		CITY OF HOONAH	
		Hoonah City Float Replacement	
CHECKED BY: J. Beedle		Gangway Float Exterior Blocking & Rail	
DRAFTED BY: C. Fuman			
PATH: Q:\Hnh\67792\MF\PlanSet-City Dock\23 GW float blocking.dwg			
PLOT: PSPACE 1=1 Tab: Blocking Wed, 23/Aug/06 01:17PM			
REVISIONS		PROJECT DESIGNATION	YEAR
NO.	DATE	DESCRIPTION	SHEET NO.
			TOTAL SHEETS
		67792	2006 23 34

Note: All float logs are 12 3/4"x12" glulam timbers



FE - Fire extinguisher cabinet. Locate @ approximately 50' spacing, alternate sides, typ.

* See section A-A, sheet 26 for end flotation detail, (Similar).

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

DESIGNED BY: K. Miller

CHECKED BY: J. Beedle

DRAFTED BY: C. Fuman

PATH: Q:\Hnh\67792\MF\Plans-City Dock\24 Log Float Layout.dwg

PLOT: PSPACE 1=1 Tab: Layout

WED, 23/AUG/06 01:17PM



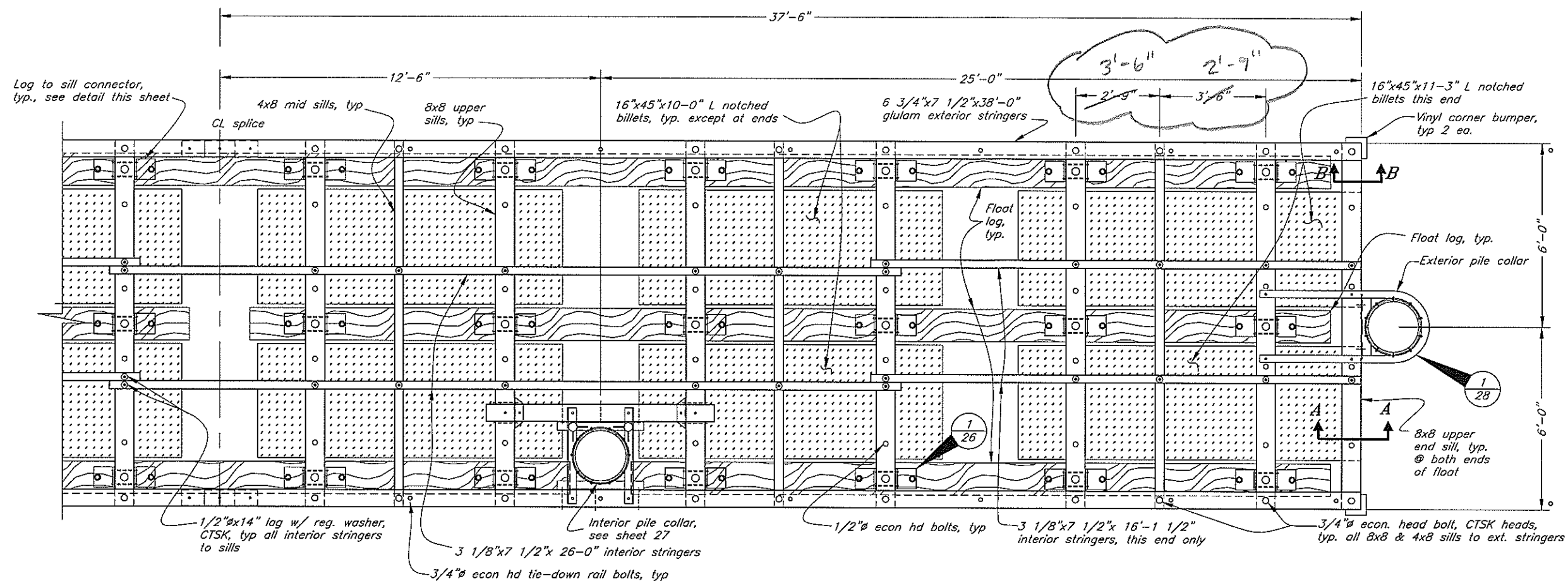
CITY OF HOONAH

Hoonah City Float Replacement

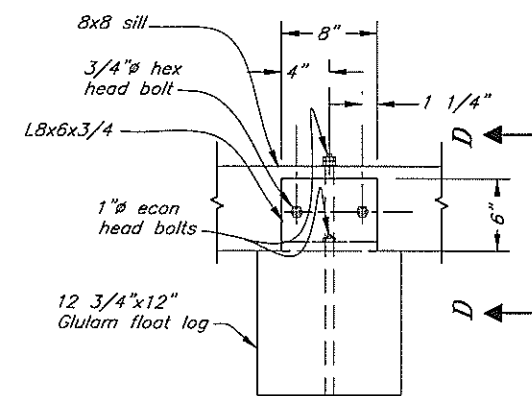
12' x 437'-6" Mooring Float Layout

REVISIONS				PROJECT DESIGNATION		YEAR	SHEET NO.	TOTAL SHEETS
NO.	DATE	DESCRIPTION		67792		2006	24	34

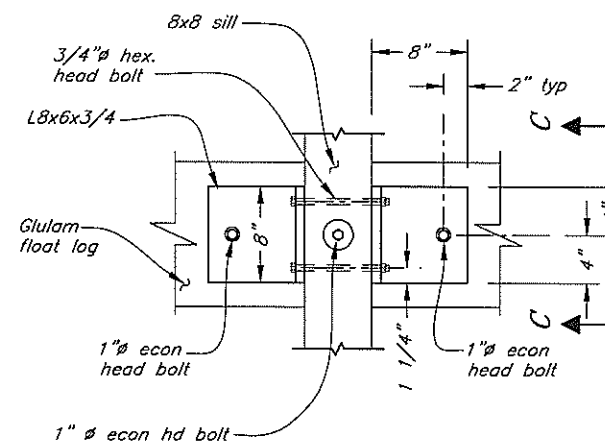
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NO.	DATE	DESCRIPTION				
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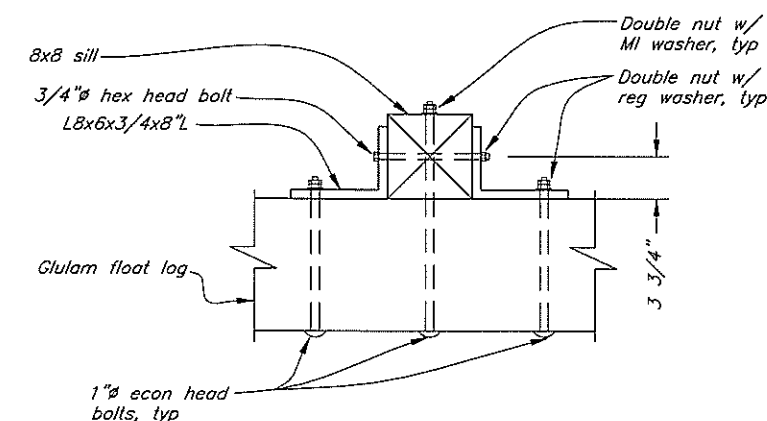
37.5' Float Module Plan



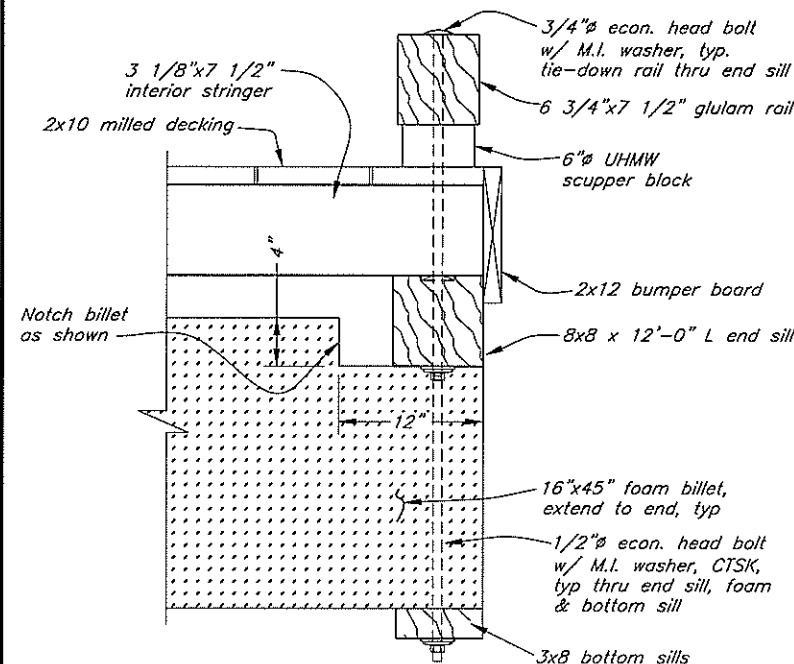
Section C-C



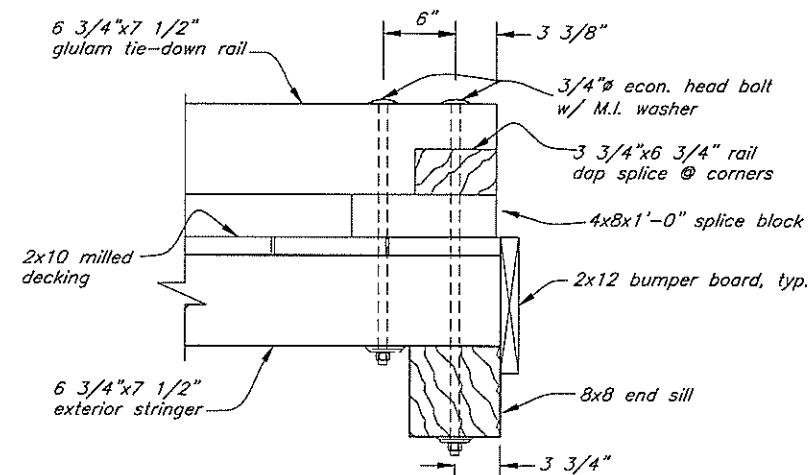
Typ. Log to Sill Connection Detail (1/25)



Section D-D

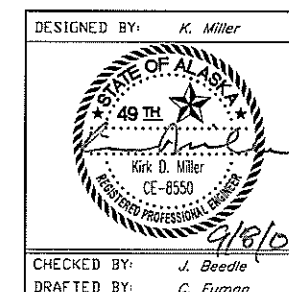


Section A-A



Section B-B

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS



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

PATH: Q:\Hnh\67792\MF\PlanSet-City Dock\26 Log Float 37.5' module.dwg
PLOT: PSPACE 1=1 Tab: 37.5 module Wed, 23/Aug/06 01:16PM

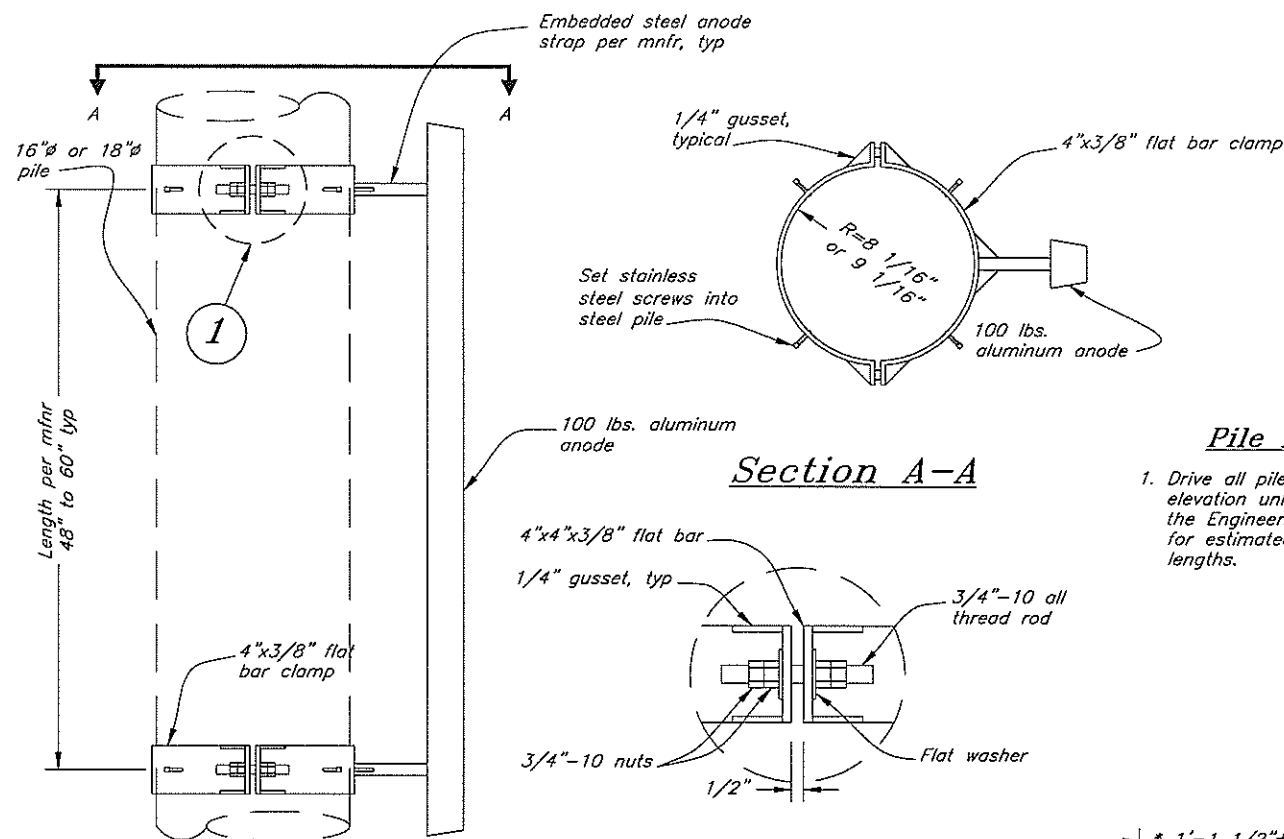
REVISIONS			PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
NO.	DATE	DESCRIPTION				
			67792	2006	26	34

CITY OF HOONAH
Hoonah City Float Replacement

37.5' Float Module & Misc. Details



DESIGNED BY: <i>K. Miller</i>  <i>9/8/06</i>	CITY OF HOONAH Hoonah City Float Replacement Mooring Float Exterior Pile Collar																							
CHECKED BY: <i>J. Beedle</i> DRAFTED BY: <i>Fuman</i>	PATH: <i>Q:\Hnh\67792\MF\PlanSet-City Dock\28 Log Float Exterior pile collar.dwg</i> PLOT: PSPACE 1=1 <i>Tab: Ext collar</i> <i>Wed, 23/Aug/06 01:16PM</i>																							
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NO.	DATE	DESCRIPTION																						
PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS																					
67792	2006	28	34																					

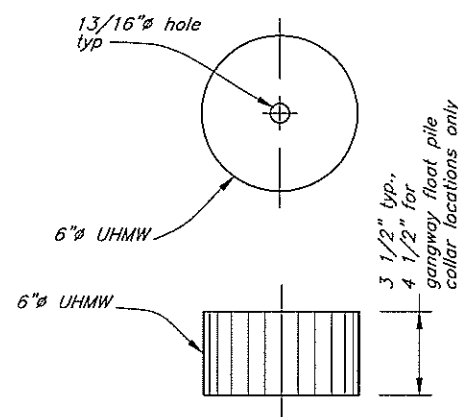


Elevation

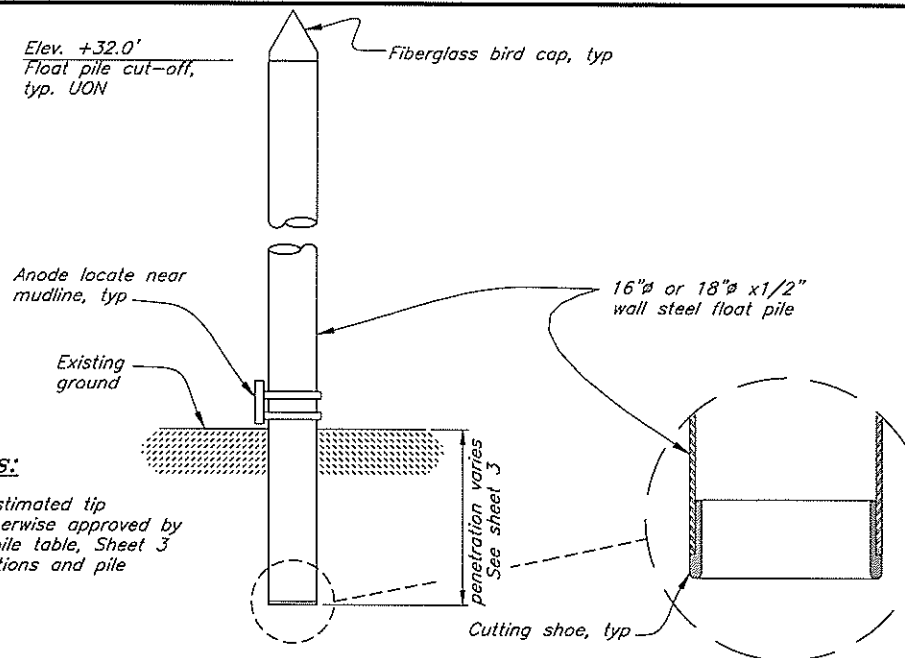
Clamp Connection

NOTE:
Anodes may be welded underwater to pile in lieu of using anode bracelet.

Anode Bracelet Detail



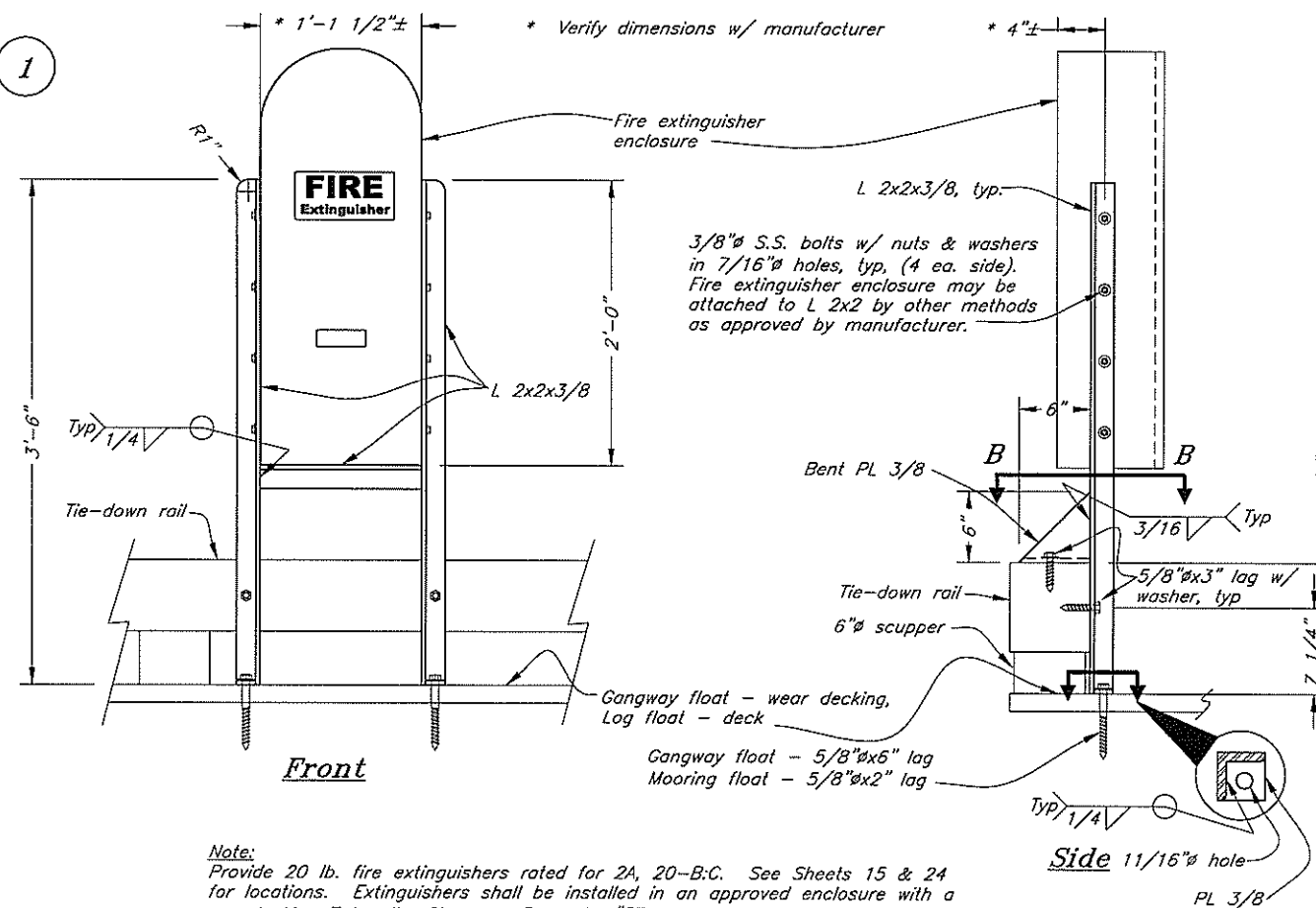
UHMW Scupper Block Detail



Pile Details

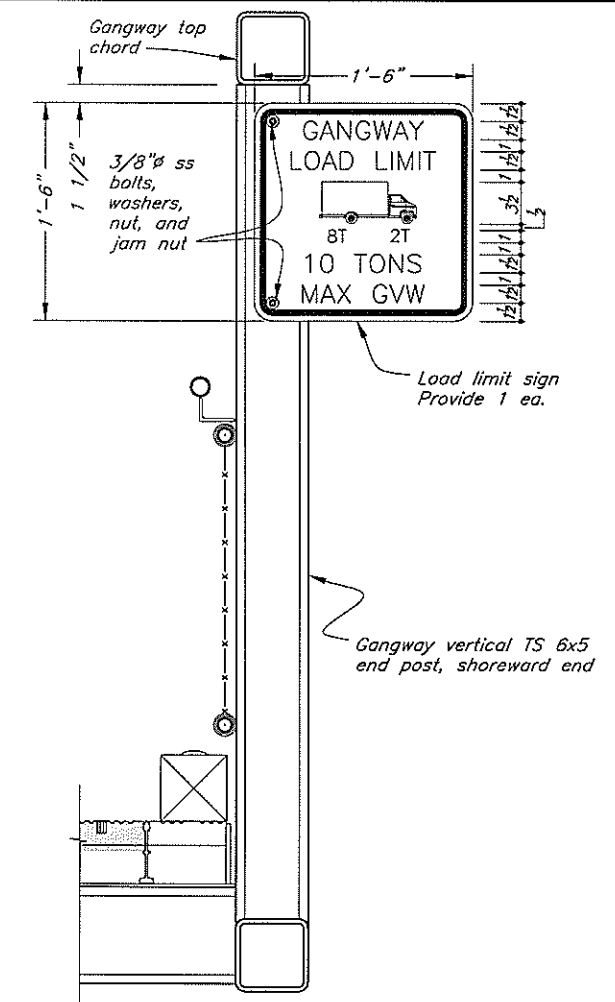
Pile Notes:

1. Drive all piles to estimated tip elevation unless otherwise approved by the Engineer. See pile table, Sheet 3 for estimated elevations and pile lengths.

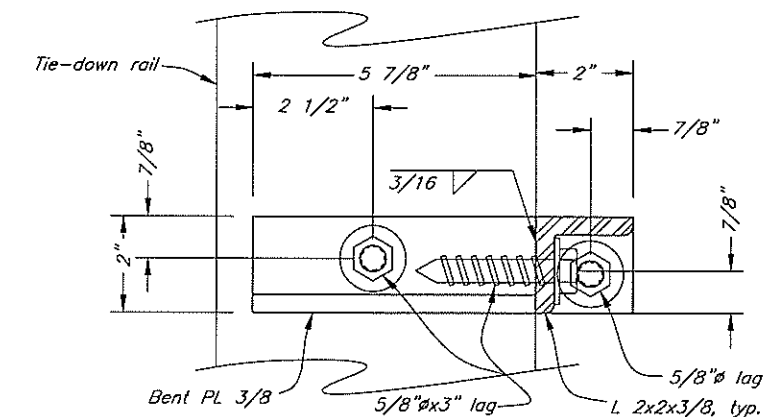


Note:
Provide 20 lb. fire extinguishers rated for 2A, 20-B:C. See Sheets 15 & 24 for locations. Extinguishers shall be installed in an approved enclosure with a non-locking T handle, Cheyenne Products #FEH-L or equal. Hot dip galvanize frame after fabrication.

Fire Extinguisher Enclosure



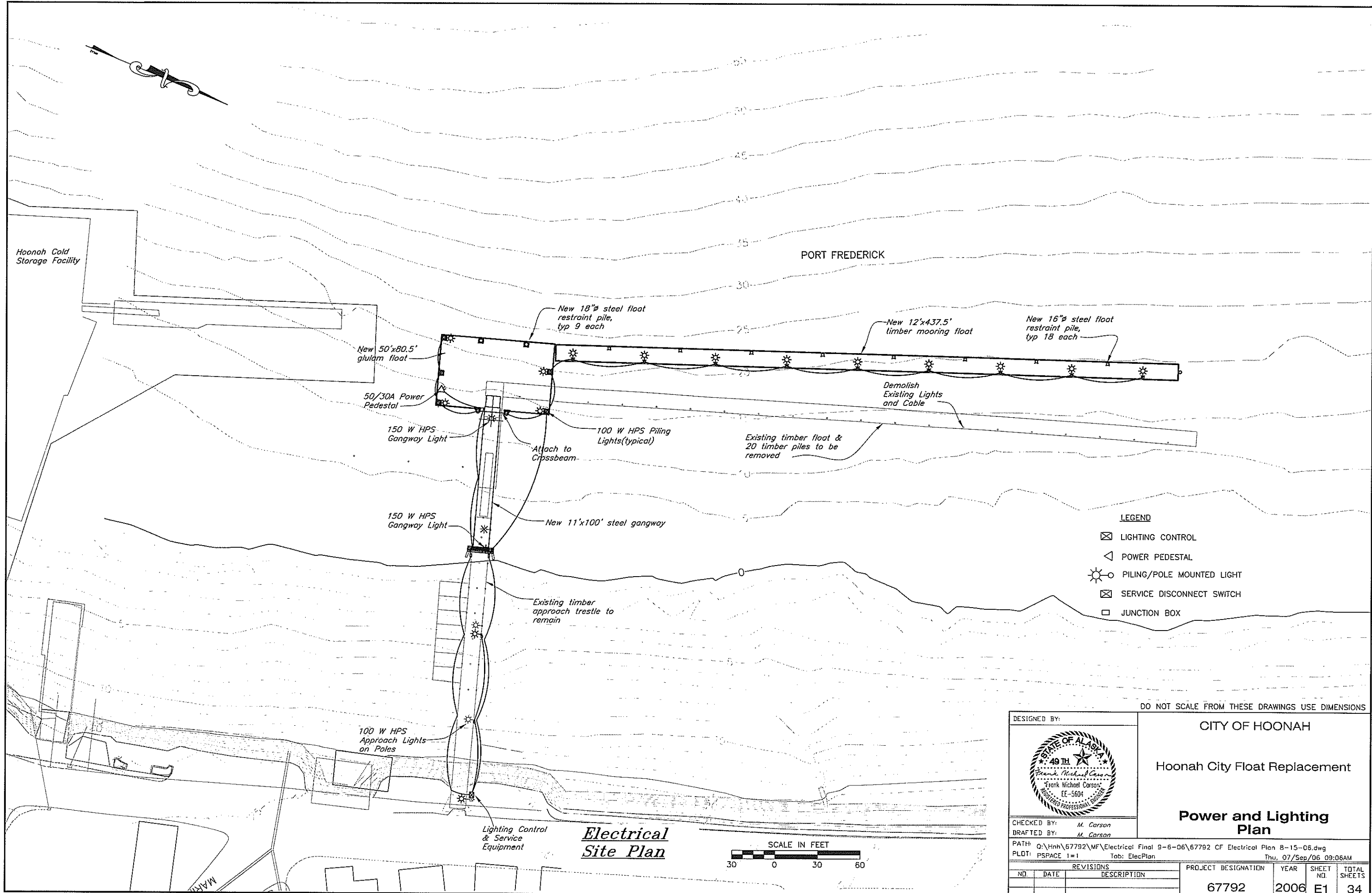
Load Limit Sign



Section B-B

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

DESIGNED BY: K. Miller		CITY OF HOONAH			
		Hoonah City Float Replacement			
CHECKED BY: J. Beede		Miscellaneous Details			
DRAFTED BY: B. Bennett/Fuman					
PATH: Q:\Hnh\67792\MF\PlanSet-City Dock\29 Misc.dwg					
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REVISIONS		PROJECT DESIGNATION		YEAR	TOTAL SHEETS
NO.	DATE	DESCRIPTION		SHEET NO.	
		67792		2006	29
					34



- LEGEND
- ⊠ LIGHTING CONTROL
 - ◁ POWER PEDESTAL
 - ☼ PILING/POLE MOUNTED LIGHT
 - ⊞ SERVICE DISCONNECT SWITCH
 - JUNCTION BOX

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

DESIGNED BY:


CITY OF HOONAH

Hoonah City Float Replacement

Power and Lighting Plan

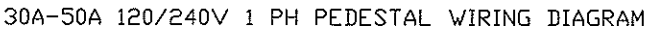
CHECKED BY: M. Carson
DRAFTED BY: M. Carson

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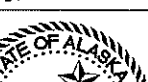
REVISIONS			PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
NO.	DATE	DESCRIPTION				
			67792	2006	E1	34

Electrical Site Plan

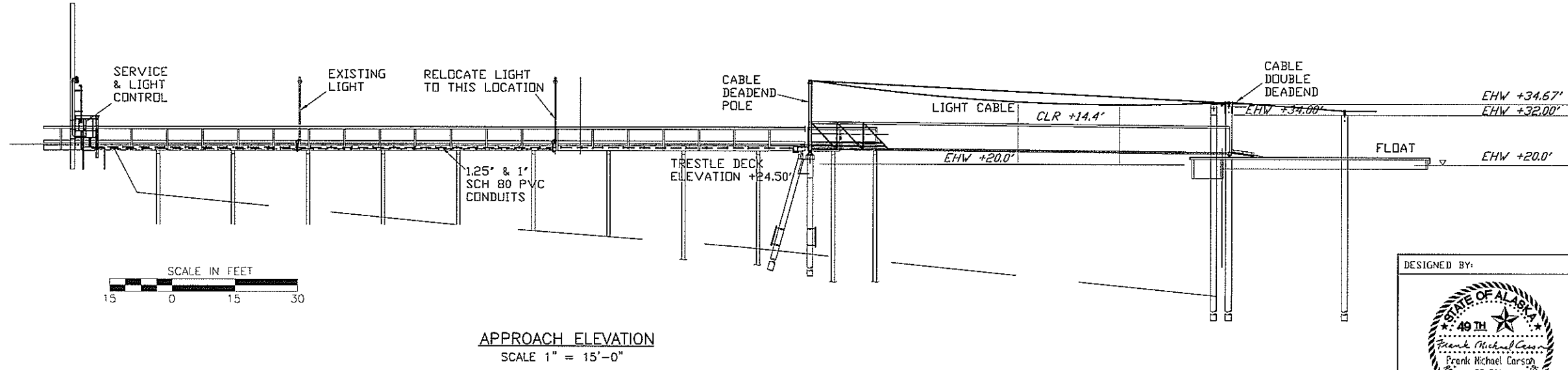
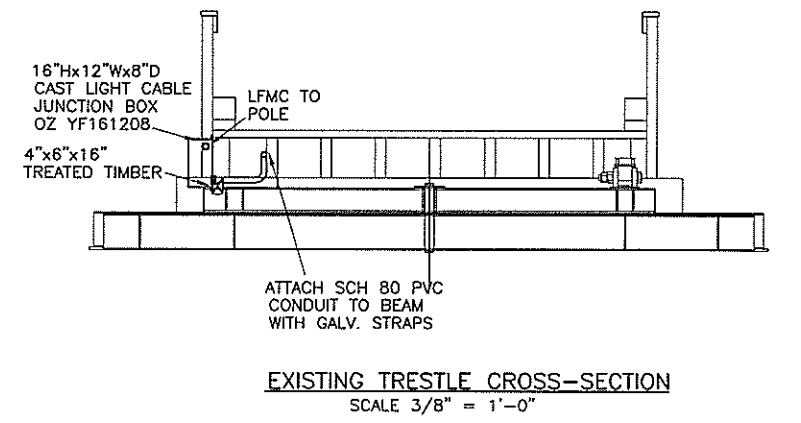
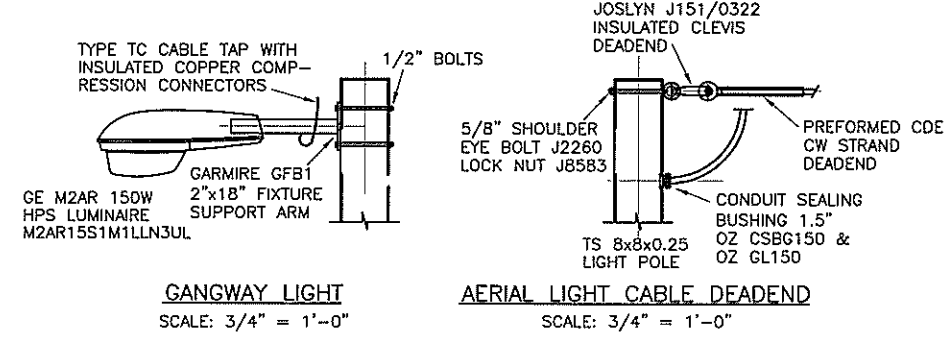
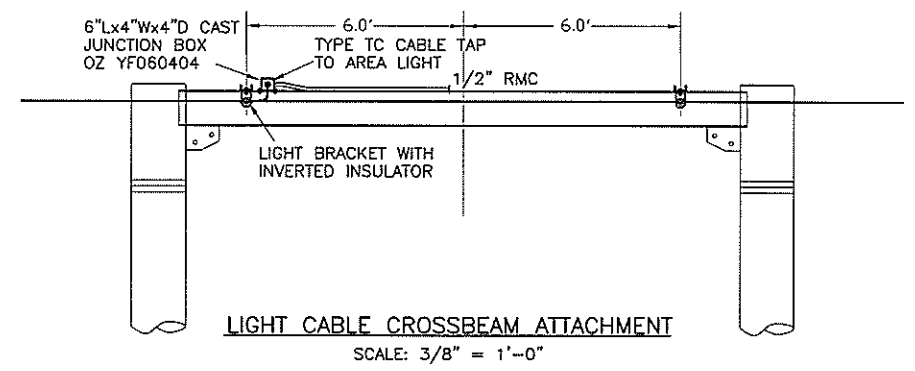
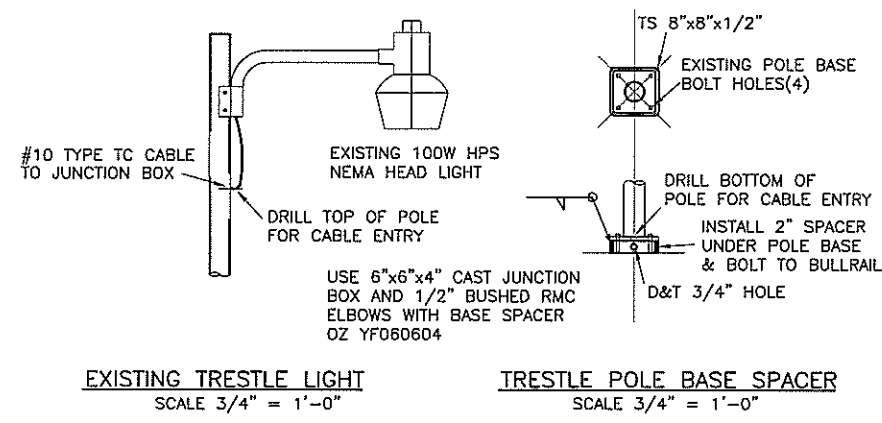
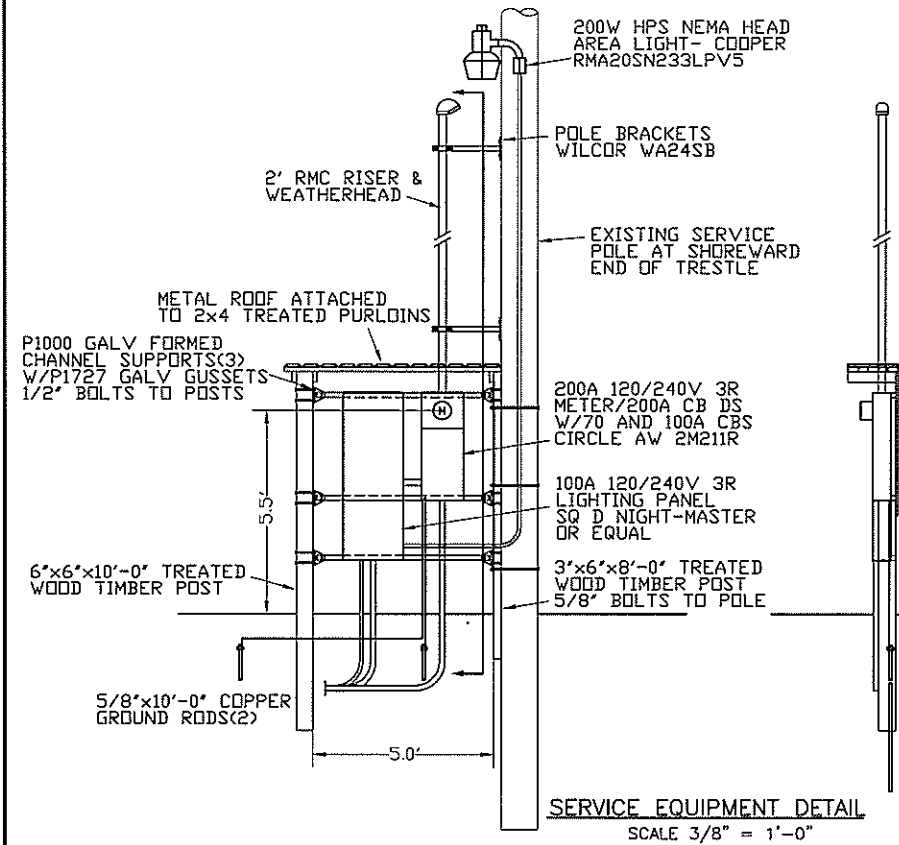




NOTE: EQUIPMENT AND MATERIALS SHALL CONFORM TO APPLICABLE REQUIREMENTS OF NFPA, ANSI, IEEE NEMA AND UL STANDARDS.

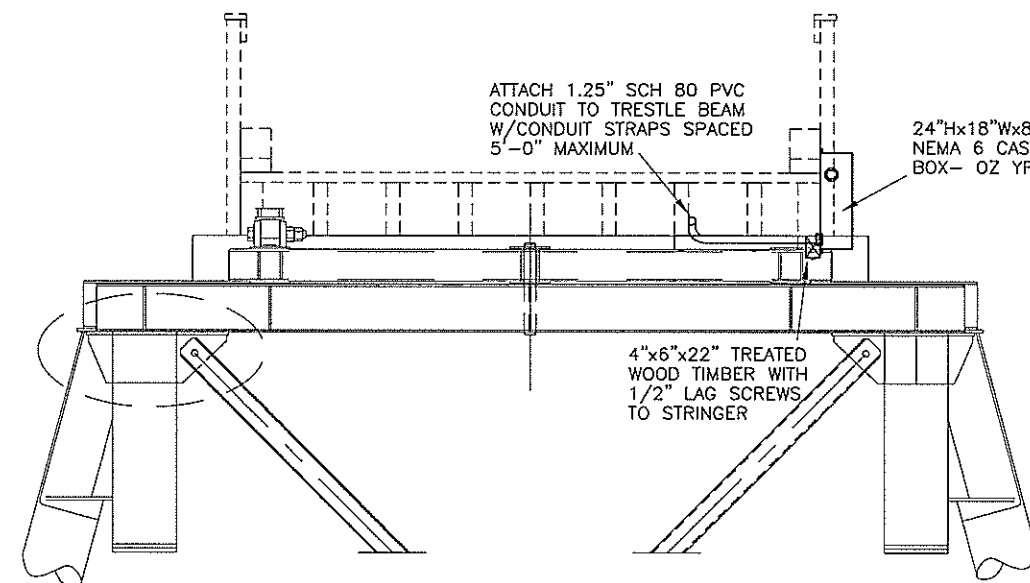
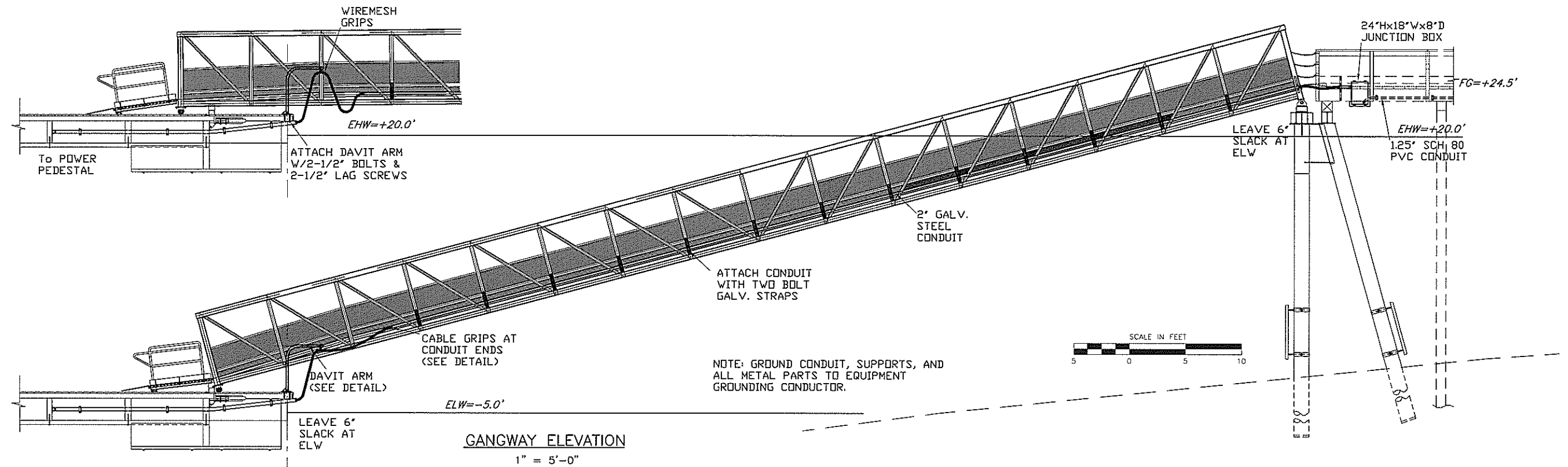
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	CITY OF HOONAH Hoonah City Float Replacement
CHECKED BY: M. Carson DRAFTED BY: M. Carson	One Line Diagram
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NO.	DATE	DESCRIPTION				
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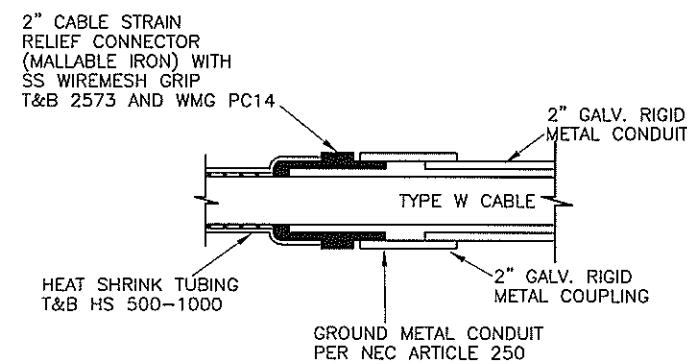


DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

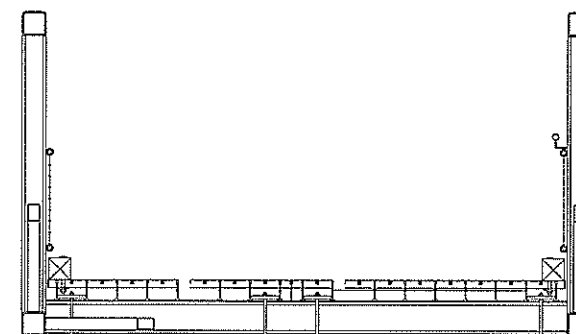
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		Hoonah City Float Replacement																			
		Approach Elevation and Details																			
CHECKED BY:	M. Carson																				
DRAFTED BY:	M. Carson																				
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NO.	DESCRIPTION																				
		67792	2006	E3	34																



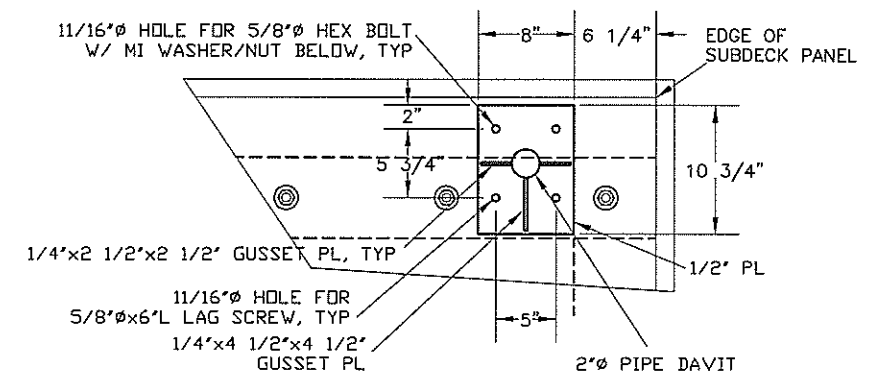
TRESTRLE SUPPORT CROSS-SECTION DETAIL
1/2" = 1'-0"



TYPE W CABLE GRIP DETAIL
NO SCALE

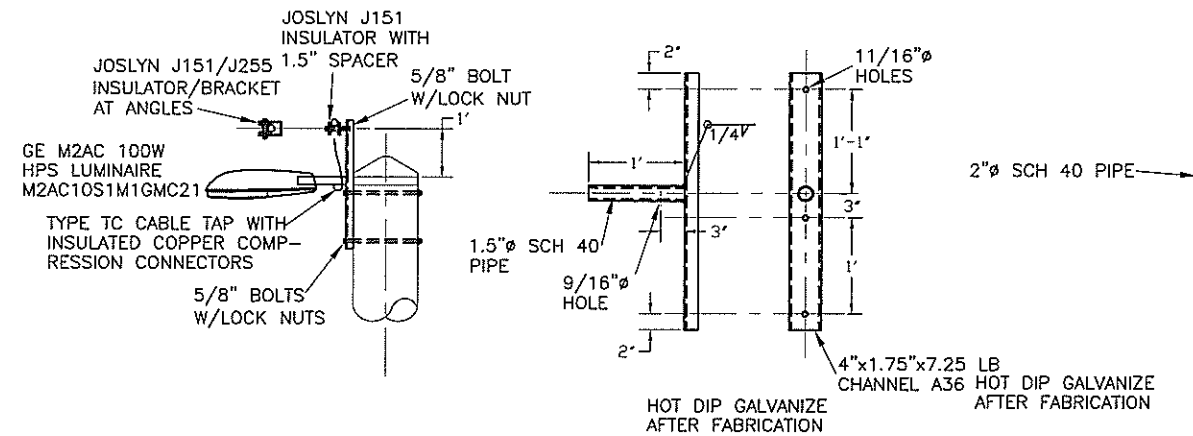


GANGWAY CROSS-SECTION DETAIL
1/2" = 1'-0"



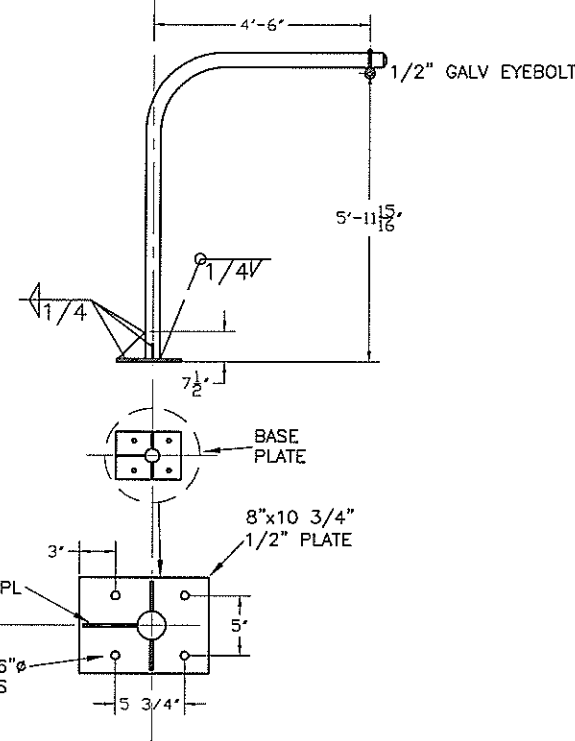
DAVIT INSTALLATION DETAIL
1 1/2" = 1'-0"

DESIGNED BY:		DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS			
		CITY OF HOONAH			
		Hoonah City Float Replacement			
CHECKED BY: M. Carson		Gangway Elevation and Details			
DRAFTED BY: M. Carson					
PATH: Q:\Hnh\67792\MF\Electrical Final 9-6-06\67792 CF Gangway Details 8-15-06.dwg		PROJECT DESIGNATION			
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		2006			
		E4			
		34			



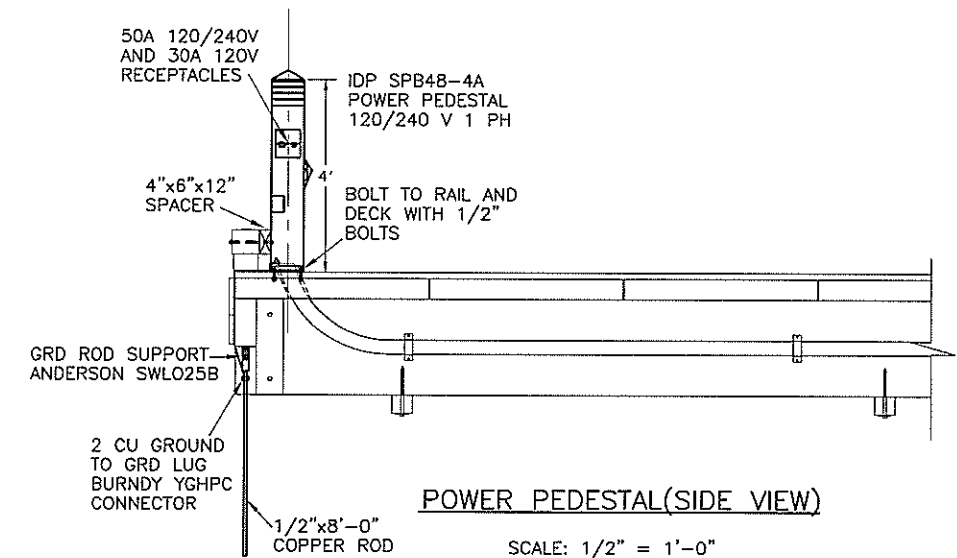
PILING LIGHT BRACKETS(SIDE VIEW)

SCALE: 1/2" = 1'-0"



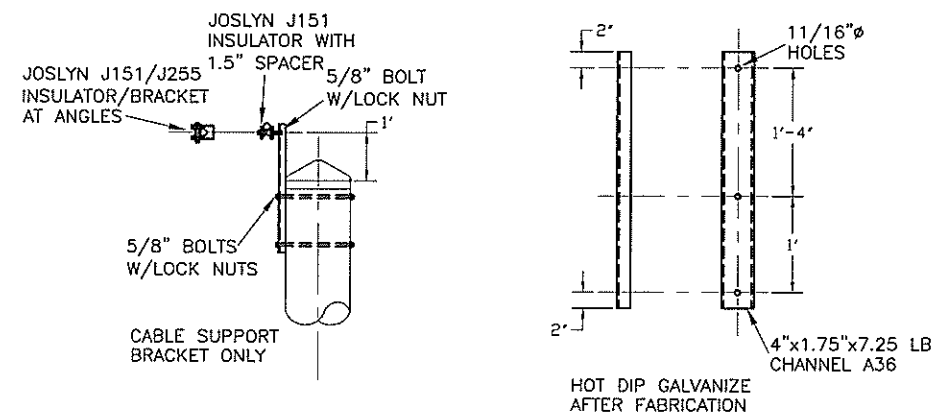
CABLE DAVIT ARM SUPPORT(SIDE VIEW)

SCALE: 3/4" = 1'-0"



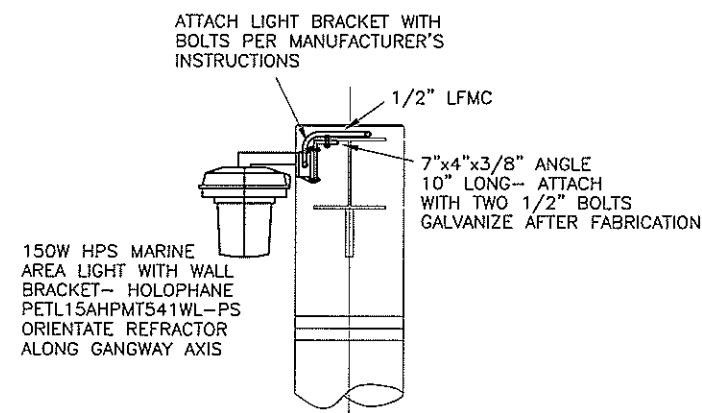
POWER PEDESTAL(SIDE VIEW)

SCALE: 1/2" = 1'-0"



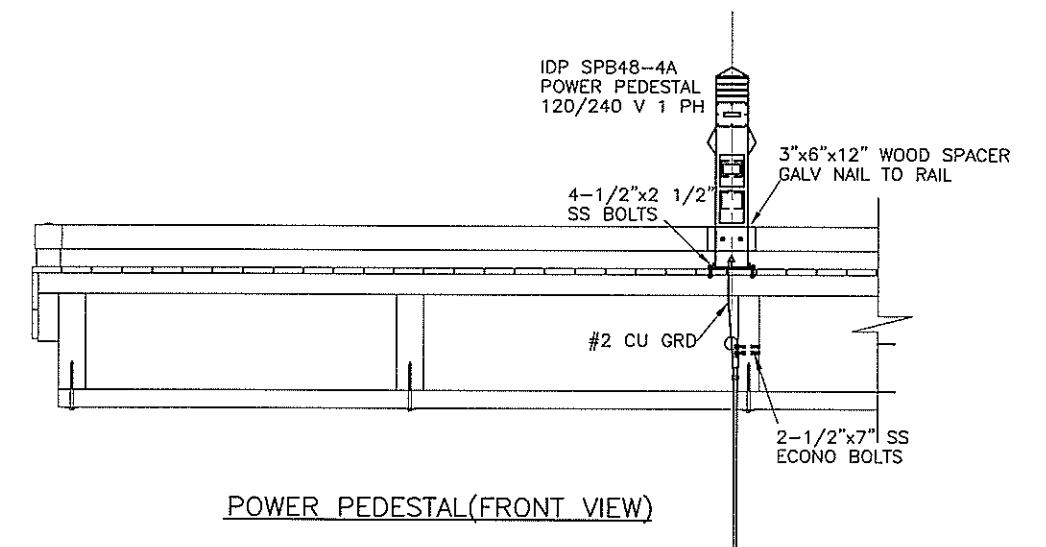
PILING CABLE BRACKETS(SIDE VIEW)

SCALE: 1/2" = 1'-0"



GANGWAY CROSS-BEAM LIGHT DETAIL

SCALE: 3/4" = 1'-0"

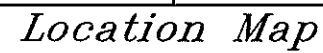


POWER PEDESTAL(FRONT VIEW)

SCALE: 1/2" = 1'-0"

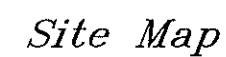
DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

DESIGNED BY:		CITY OF HOONAH			
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REVISIONS		PROJECT DESIGNATION		YEAR	SHEET
NO.	DATE	DESCRIPTION		NO.	TOTAL SHEETS
		67792		2006	34

[illegible]

HOONAH, ALASKA

PROJECT NO. 67792



ESTIMATE OF QUANTITIES PLANSET B – HARBOR FLOAT EXPANSION			
Item Number	Description	Unit	Quantity
504 (5B)	Aluminum Transition Plate	Each	2
505 (1B)	12.75" dia. x 1/2" Wall Pipe Piles, Furnished	Linear Foot	1,216
505 (2B)	12.75" dia. x 1/2" Wall Pipe Piles, Driven	Each	16
505 (3B)	16" dia. x 1/2" Wall Pipe Piles, Furnished	Linear Foot	960
505 (4B)	16" dia. x 1/2" Wall Pipe Piles, Driven	Each	12
506 (4B)	10' x 200' Timber Main Float (Float C)	Lump Sum	All Req'd
506 (5B)	5' x 40' Timber Stall Float	Each	10
506 (6B)	12' x 150' Timber Main Float (Float D)	Lump Sum	All Req'd
506 (7B)	6' x 48' Timber Stall Float	Each	3
506 (10B)	Fire Extinguisher Stations	Each	8
506 (12B)	Leveling Flotation	Cubic Foot	113.75
506 (14B)	Repair Existing Concrete Gangway Float (Btwn Floats C & D)	Contingent Sum	All Req'd
640 (1)	Mobilization and Demobilization	Lump Sum	All Req'd
642 (1B)	Construction Surveying (Harbor)	Lump Sum	All Req'd
662 (3B)	Electrical Power & Lighting System (Floats C & D)	Lump Sum	All Req'd
Additive Alternate A – Float B			
504 (6B)	Aluminum Transition Plate	Each	1
505 (5B)	16" dia. x 1/2" Wall Pipe Piles, Furnished (Float B)	Linear Foot	480
505 (6B)	16" dia. x 1/2" Wall Pipe Piles, Driven (Float B)	Each	6
505 (11B)	100 lb Anode for 16" dia. Pile (Float B)	Each	6
506 (8B)	10' x 192' Timber Main Float (Float B)	Lump Sum	All Req'd
506 (9B)	3.5' x 30' Timber Stall Float	Each	12
506 (11B)	Fire Extinguisher Stations (Float B)	Each	5
506 (13B)	Leveling Flotation (Float B)	Cubic Foot	71.25
506 (15B)	Repair Existing Concrete Gangway Float (Btwn Floats A & B)	Contingent Sum	All Req'd
662 (4B)	Electrical Power & Lighting System (Float B)	Lump Sum	All Req'd
Additive Alternate B – Pile Anodes			
505 (9B)	100 lb Anode for 12.75" dia. Pile	Each	16
505 (10B)	100 lb Anode for 16" dia. Pile	Each	12
Additive Alternate D – Phased Completion			
640 (2)	Mobilization & Demobilization for Early Completion...	Lump Sum	All Req'd

Abbreviations

SS – Stainless Steel
Galv. – Galvanized
Typ – Typical
o.c. – On Center
U.O.M. – Unless Otherwise Noted
Econ. Hd. – Economy Head
Alum – Aluminum
L – Long
W – Wide
FG – Finished grade
O-O – out to out
PT – Pressure treated
btm – bottom
PL – Plate
CL – Centerline
MI – malleable iron

TIDAL DATA	
EHW	= +20.0'
MHHW	= +14.8'
MLLW	= 0.0'
ELW	= -5.1'

General Notes

Specifications & Other Information: Per Contract Documents, see Specifications.
Reference as-built drawings for existing concrete float & harbor features not shown.

Design Standards: ADOT&PF Southeast Region Marine Engineering Design Standards

Materials

Steel:

Tube Sections: ASTM A500 Grade B

Piles: Straight seam, ASTM A252 Grade 3 or equal.

Pipe: ASTM A53, Grade B, type E or S

Stainless: Type 302, 304 or 316

Steel Shapes & Plates: ASTM A36, A572 Grade 50, or as noted.

Pile Tips: APF-0-14000 or APF 0-14001 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.

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

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

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 SIS2E).

Glulam members shall be DF/DF, combination 24F-V8.

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

Electrical Utility Trays: Fiberglass. Equipped with 2-inch high siderails and ventilated with holes to allow drainage as manufactured by "MPHusky" or "Seasafe" or approved equal. Width as noted on the Plans. Provide in long of lengths as practical w/ all joints framed at centerline of top sills unless otherwise permitted.

Float Bumpers: Float corner bumpers shall be heavy duty, marine grade vinyl type. Attach to float with stainless steel screws and washers per manufacturers recommendations.

Welding: All welding shall be done by qualified welders in accordance with AWS D1.1 or AWS D1.2.

Timber Treatment:

Sawn timber below deck level to be treated with creosote to 20 pcf retention.
Glulam stringers, sills or other members below deck level shall be treated with creosote, 12 pcf retention.
Glulam float logs shall be treated with creosote, 20 pcf retention.
Timber decking, tiedown rails & bumper boards to be treated with ACZA to 0.6 pcf retention.

Cut all members to length and incise prior to pressure treatment. Drill all holes/counterboring and cut all daps prior to pressure treatment unless otherwise specified or approved by the Engineer. Treat all field drilled holes and cuts with 5% copper naphthenate solution.

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 "Hydrosel 2090" brand or approved equal. All field cuts, nicks and abrasions to the coating shall be repaired with additional coatings to the specified thickness.

For leveling of floats (at locations to be determined by the Engineer), provide the following coated flotation billets:

Float B: 14 ea, 6"x20"x4'-6"L & 3 ea, 10"x20"x4'-6"L
Floats C & D: 22 ea, 6"x20"x4'-6"L & 5 ea, 10"x20"x4'-6"L

Also provide 4 each per billet, sharpened wooden or PVC dowels (sharpened at one end). Dowels shall be 1/2" diameter by 16"L (for 6" thick billets) or 20"L (for 10" thick billets). Where leveling is required, submerge leveling billet below float billet and drive 4 dowels thru leveling billet into overlying float billet to secure in place. Leveling billets may also be directed to be placed under existing concrete gangway floats. No dowels are required to be placed if leveling of concrete floats is required.

Timber Float System:

All fabrication and connection details may not be shown. Provide detailed shop drawings showing all members and fabrication sequence and as otherwise provided below.

Machine or power driven nails will not be permitted.

All timber bolts are economy head type with lugs and M.I. washers, unless otherwise noted. Provide double nuts or jam nuts where noted on the Plans.

Align bumper board splices with exterior stringer splices, minimum bumper board length is 10'-0". Butt-splice at top sill locations. Secure bumper boards with 20d galv box or spiral shank nails spaced at approx 12" OC, staggered row and 2 nails at each end. Predrill pilot hole to prevent splitting.

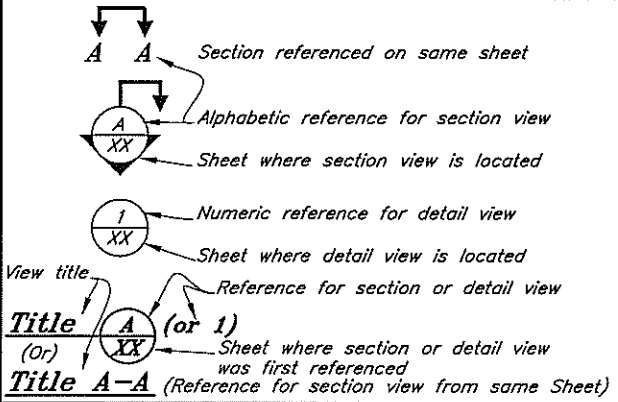
Decking shall be spaced 1/4" apart and secured to each stringer with 2 ea, 20d galvanized box or spiral shank nails at each stringer. Predrill all ends where splitting may occur.

Counterbore for all bolt heads facing decking or otherwise noted to be flush.

Miscellaneous Construction:

Existing concrete gangway floats may require repair and rehabilitation. The exact scope of work is undetermined but may include replacement of timber wales, restoration of spalled concrete surfaces and tightening of connection hardware. This work will be performed as an agreed upon change under contingent sum bid items 506 (14B) and 506 (15B). See specifications.

LEGEND

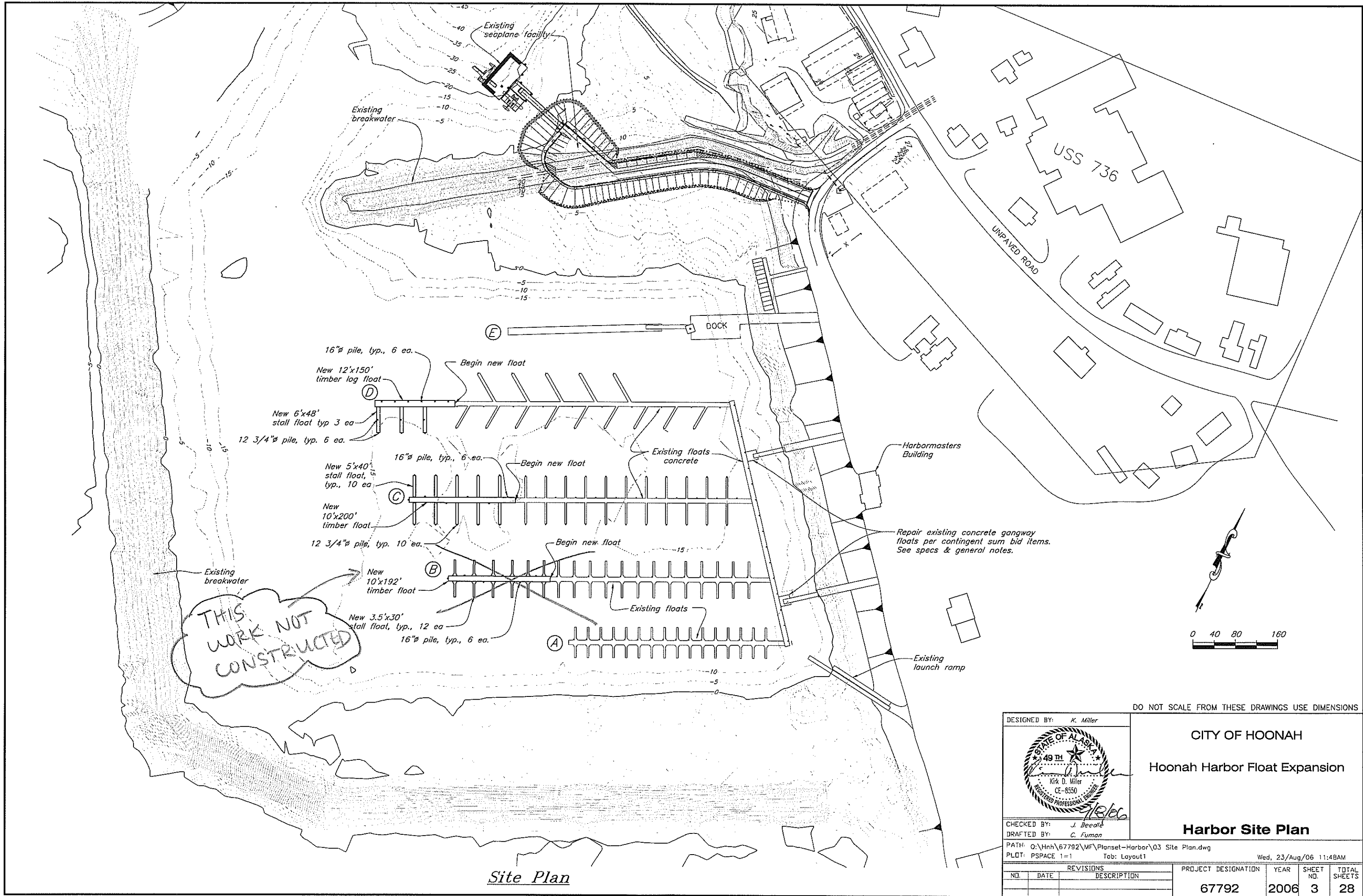


PILE DATA								
Pile Information				Elevations (ft)				Estimated Pile Length (ft)
Structural & Pile Location	Orientation	No. of Piles	Diam x Wall (inches)	Avg OG	Cut-Off	Estimated Tip Elevation	Estimated Penetration(ft)	
Float B (Main Float)	Vertical	6	16 x 1/2	-15	+32	-48	33	80
Float C (Main Float)	Vertical	6	16 x 1/2	-15	+32	-48	33	80
Float C (Stall Floats)	Vertical	10	12.75 x 1/2	-15	+32	-44	29	76
Float D (Main Float)	Vertical	6	16 x 1/2	-15	+32	-48	33	80
Float D (Stall Floats)	Vertical	6	12.75 x 1/2	-15	+32	-44	29	76

Note: Drive all piles to estimated tip elevation or practical refusal.

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

DESIGNED BY: K. Miller	CITY OF HOONAH						
	Hoonah Harbor Float Expansion						
	Estimate of Quantities & General Notes						
	CHECKED BY: J. Beedle						
	DRAFTED BY: K. Miller						
PATH: Q:\Hnh\67792\MF\Planset-Harbor\02 Estimate of Quantities.dwg							
PLOT: PSPACE 1=1 Thu, 07/Sept/06 03:37PM							
REVISIONS		PROJECT DESIGNATION	YEAR	SHEET NO.			
NO.	DATE	DESCRIPTION					
		67792	2006	2			
			TOTAL SHEETS	28			



DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

DESIGNED BY: K. Miller

CHECKED BY: J. Beede
DRAFTED BY: C. Fuman

PATH: Q:\Hnh\67792\MF\PlanSet-Harbor\03 Site Plan.dwg
PLOT: PSPACE 1=1 Tab: Layout1

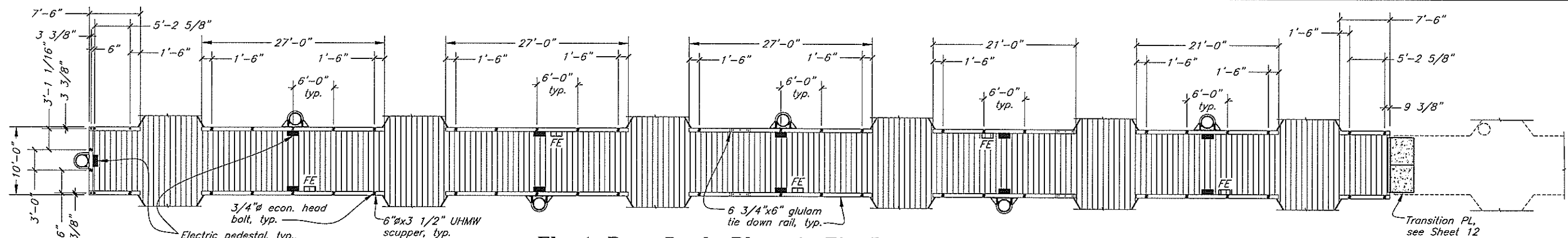
7/18/06



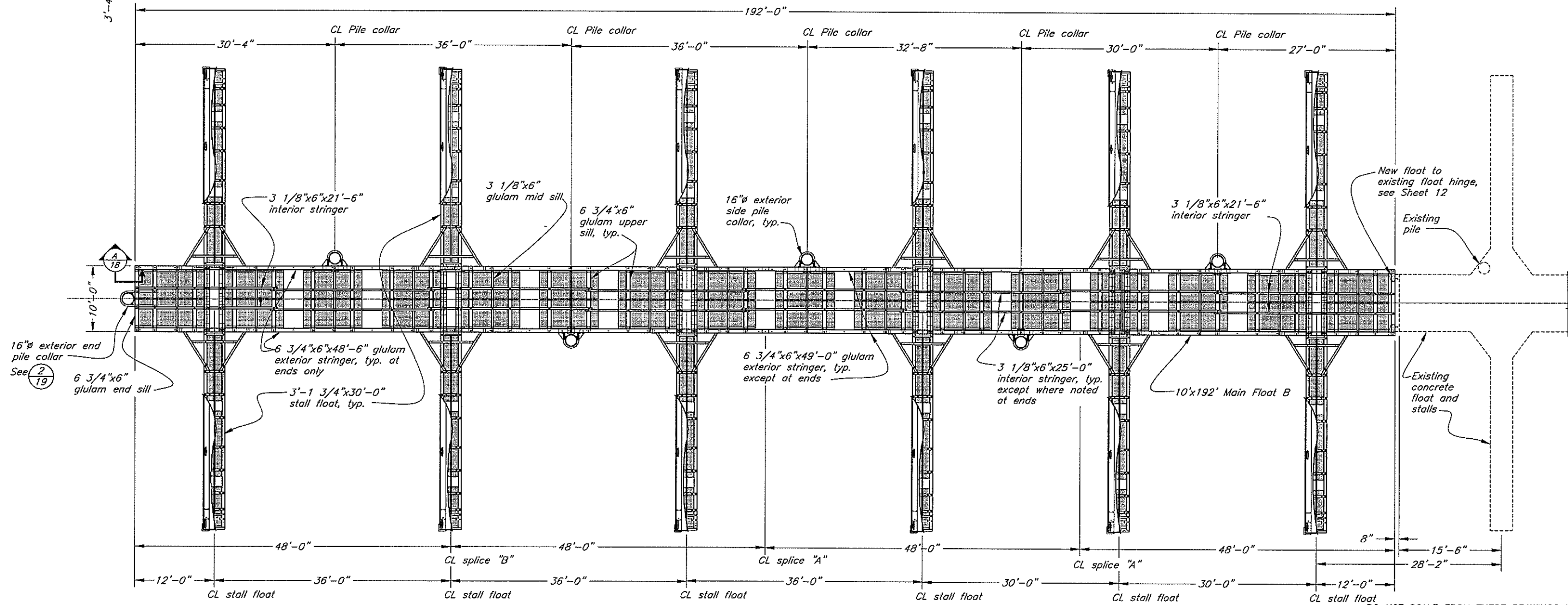
CITY OF HOONAH
Hoonah Harbor Float Expansion

Harbor Site Plan

REVISIONS			PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
NO.	DATE	DESCRIPTION	67792	2006	3	28



Float B - Deck Plan & Tie Down Rail Layout



Note: For splices "A" & "B" see Sheet 18

FE = Fire Extinguisher cabinet see Sheet 21

Float B Framing Plan

NOT CONSTRUCTED

DESIGNED BY: K. Miller

CITY OF HOONAH

Hoonah Harbor Float Expansion

Float B Layout

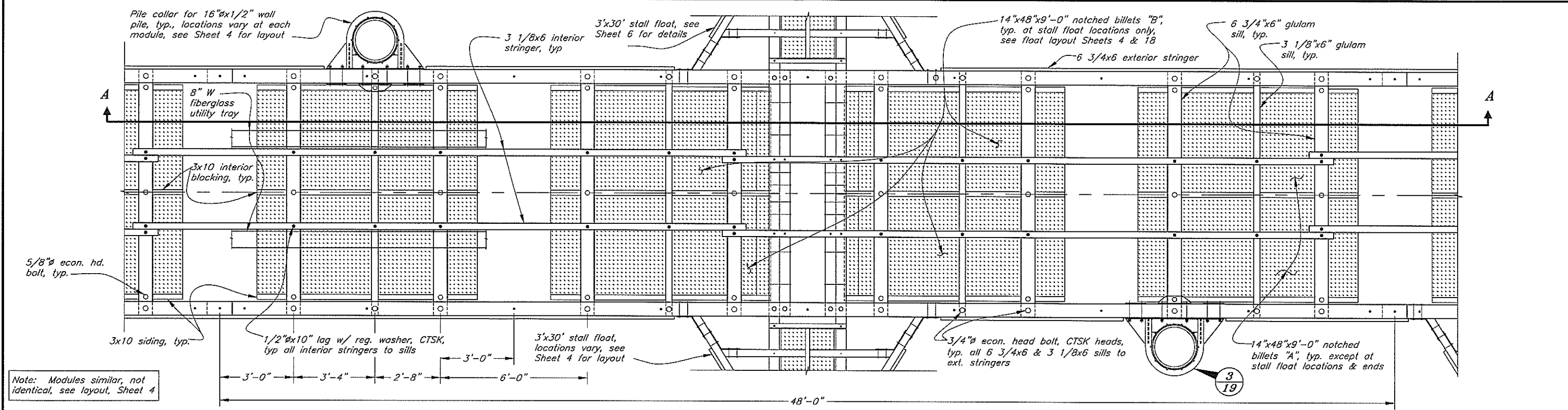
CHECKED BY: J. Beedle
DRAFTED BY: C. Fuman

PATH: Q:\Hnh\67792\MF\PlanSet-Harbor\04 Float B Layout.dwg
PLOT: PSPACE 1=1 Tab: Float B Layout

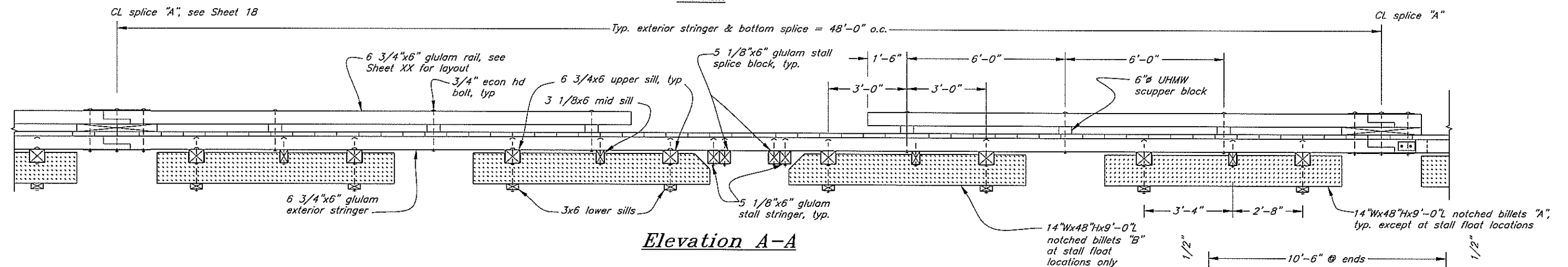
9/8/06

Wed, 23/Aug/06 11:51AM

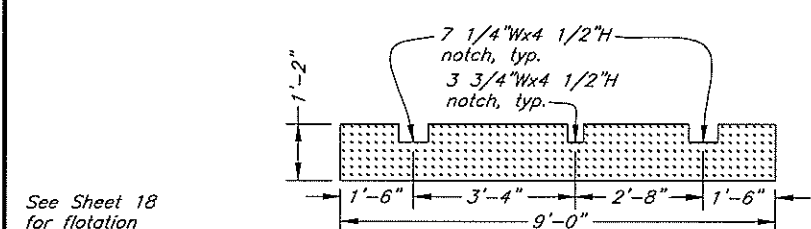
NO.	DATE	REVISIONS DESCRIPTION	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			67792	2006	4	28



Plan

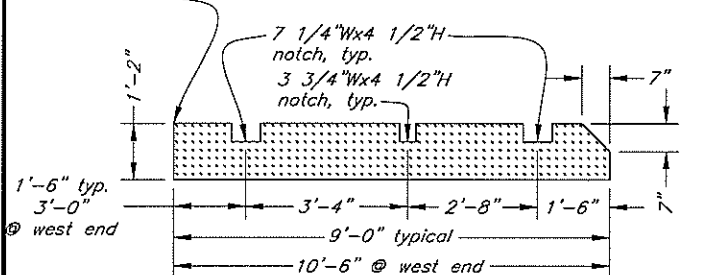


Elevation A-A

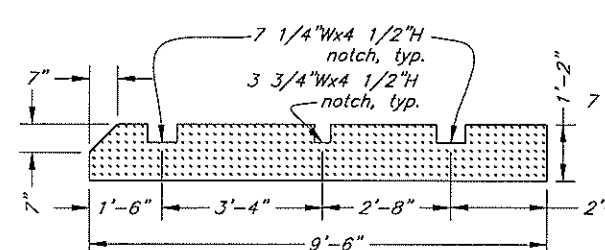


Notched Flotation Billet "A"

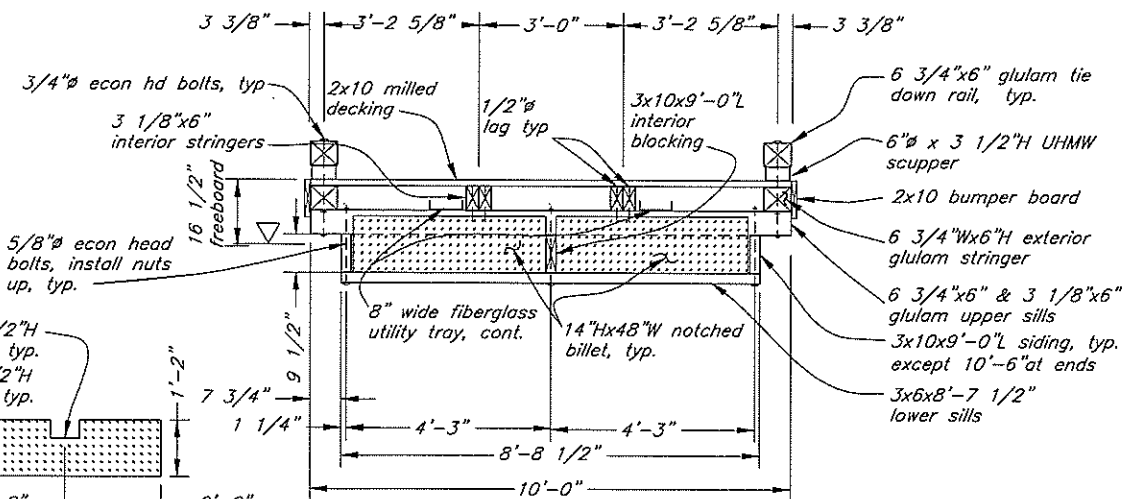
See Sheet 18 for flotation notch (not shown) on west end billet



Notched Flotation Billet "B"

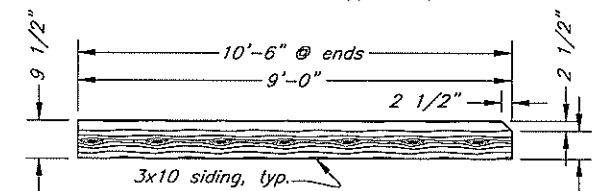


East End Flotation Billet

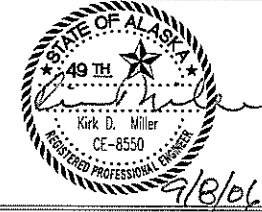


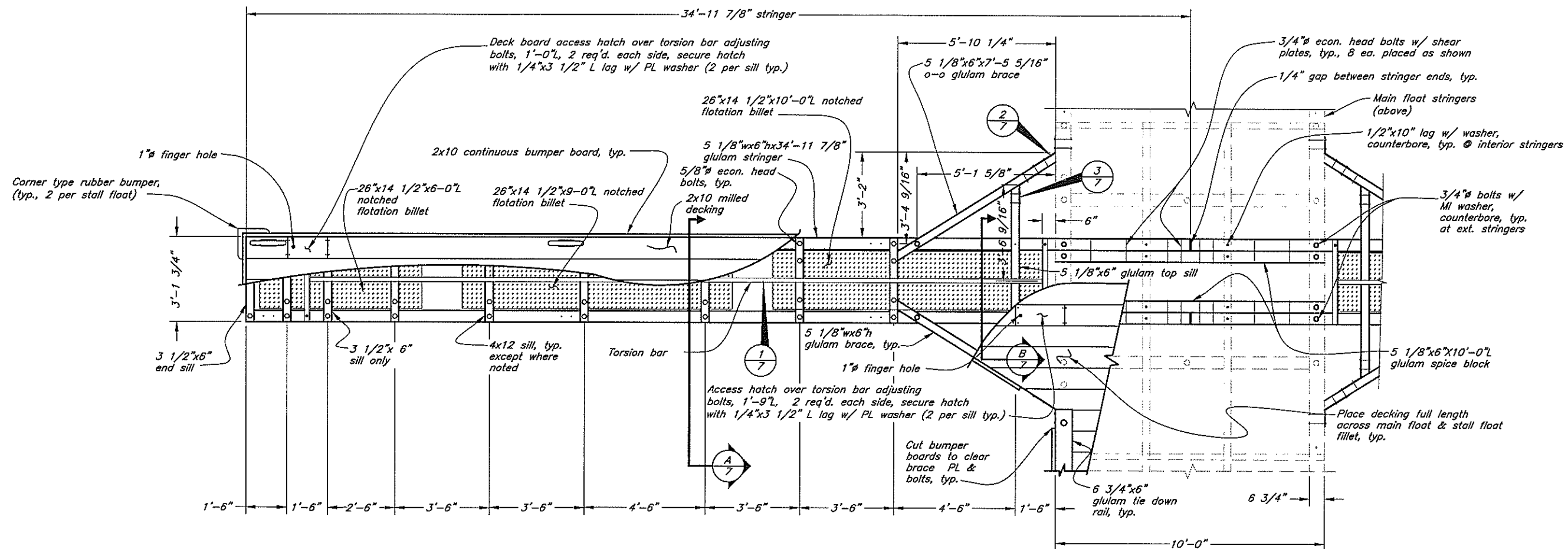
Typical Section

Siding Adjacent to Stall Floats

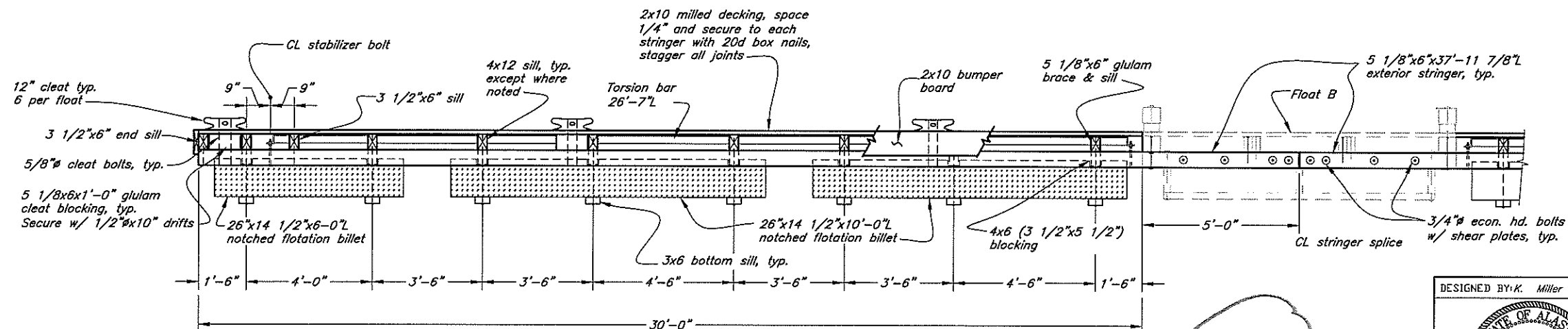


DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

DESIGNED BY: K. Miller		CITY OF HOONAH	
		Hoonah Harbor Float Expansion	
CHECKED BY: J. Beedle		NOT CONSTRUCTED	
DRAFTED BY: C. Fuman		Float B	
PATH: Q:\Hnh\67792\MF\PlanSet-Harbor\05 Float B 48' module.dwg		10'x48' Module	
PLOT: PSPACE 1=1 Tab: Float B Module		Wed, 23/Aug/06 11:51AM	
REVISIONS		PROJECT DESIGNATION	YEAR
NO.	DATE	DESCRIPTION	YEAR
		67792	2006
		SHEET NO.	TOTAL SHEETS
		5	28



Plan

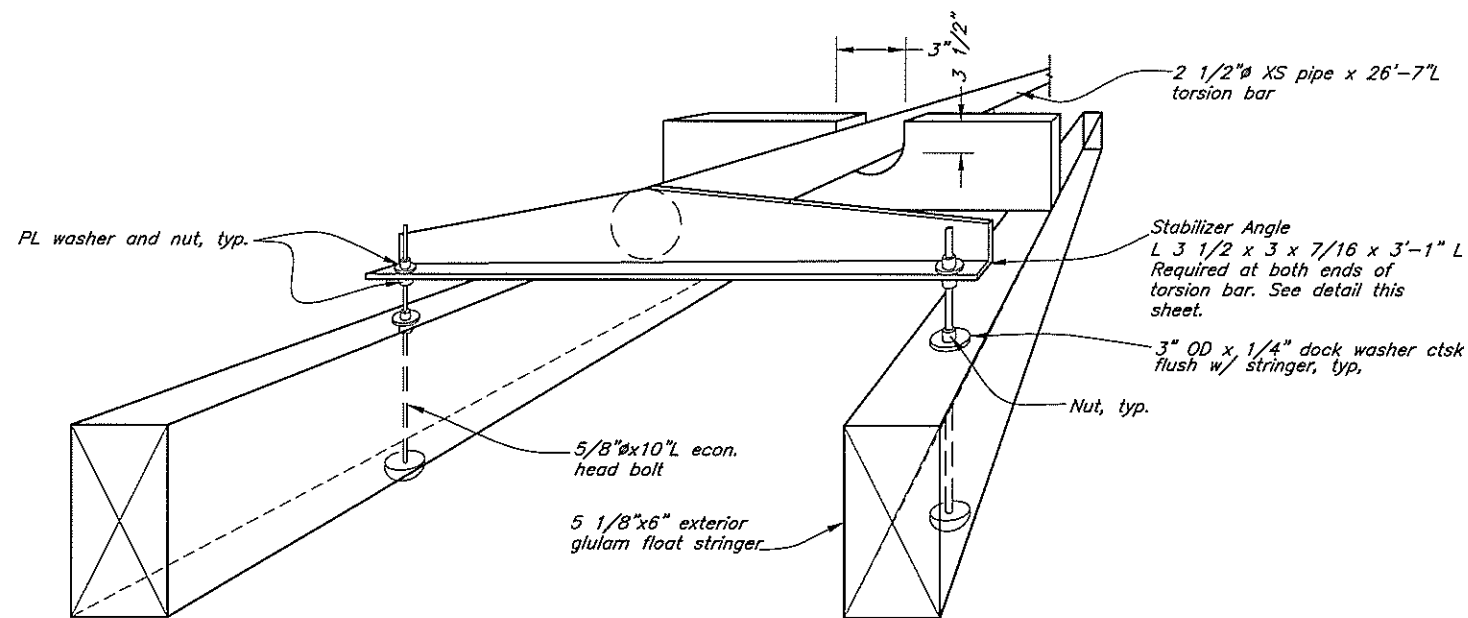


Elevation

NOT
CONSTRUCTED

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

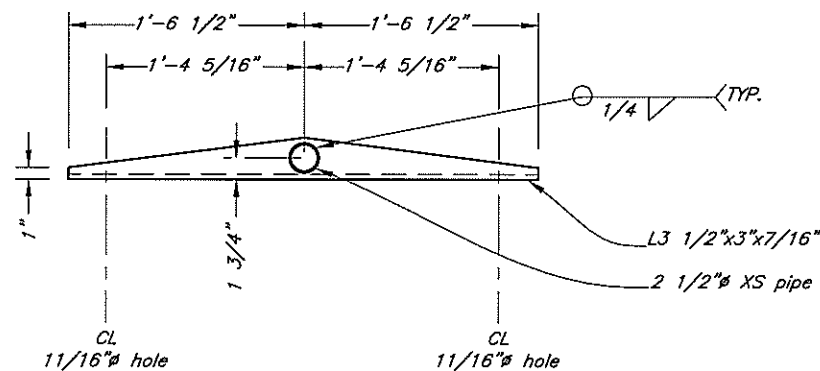
DESIGNED BY: K. Miller		CITY OF HOONAH			
		Hoonah Harbor Float Expansion			
		Float B Typical Stall Float 3'-1 3/4" x 30'			
CHECKED BY: J. Beedle		PATH: Q:\Hnh\67792\MF\PlanSet-Harbor\06 3'x30' stall float.dwg Wed, 23/Aug/06 11:51AM			
DRAFTED BY: C. Fuman, I. Mores		PLOT: PSPACE 1=1 TAB: DETAIL			
REVISIONS		PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
NO. DATE DESCRIPTION		67792	2006	6	28



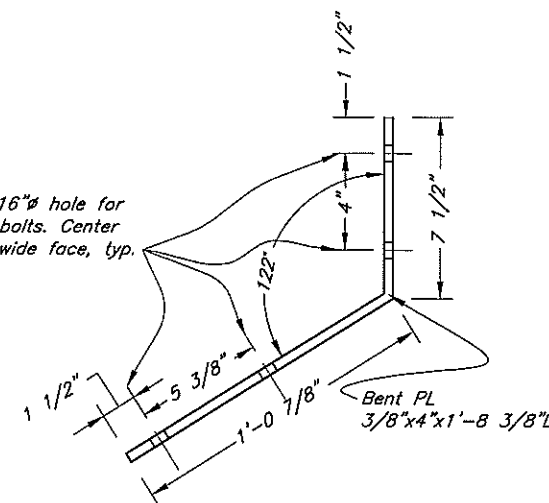
To level float, take-up on nuts as required. Loosen nuts on opposite side of angle iron before attempting adjustment in order to allow unrestricted rotation. Adjust all floats.

Stall Float Stabilizer Detail
Isometric

1
6

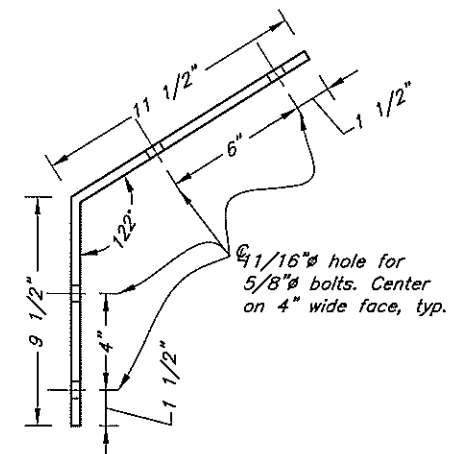


Stabilizer Angle Detail
End View



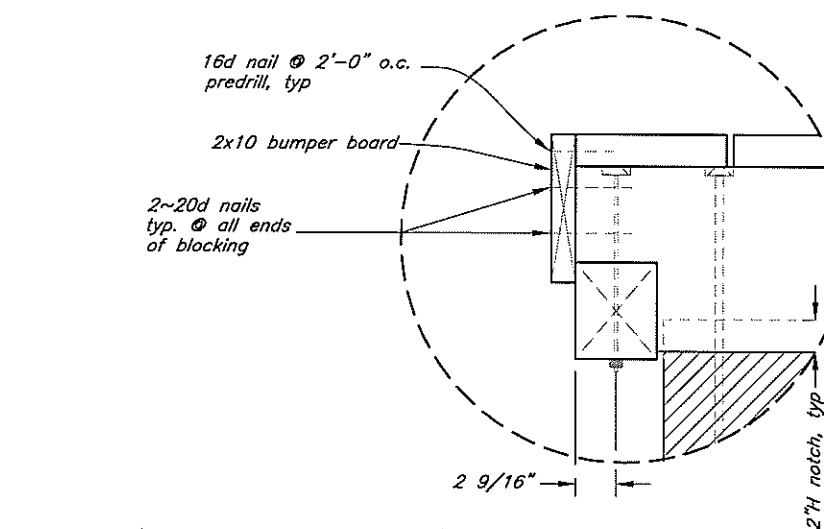
Brace Plate Detail

2
6



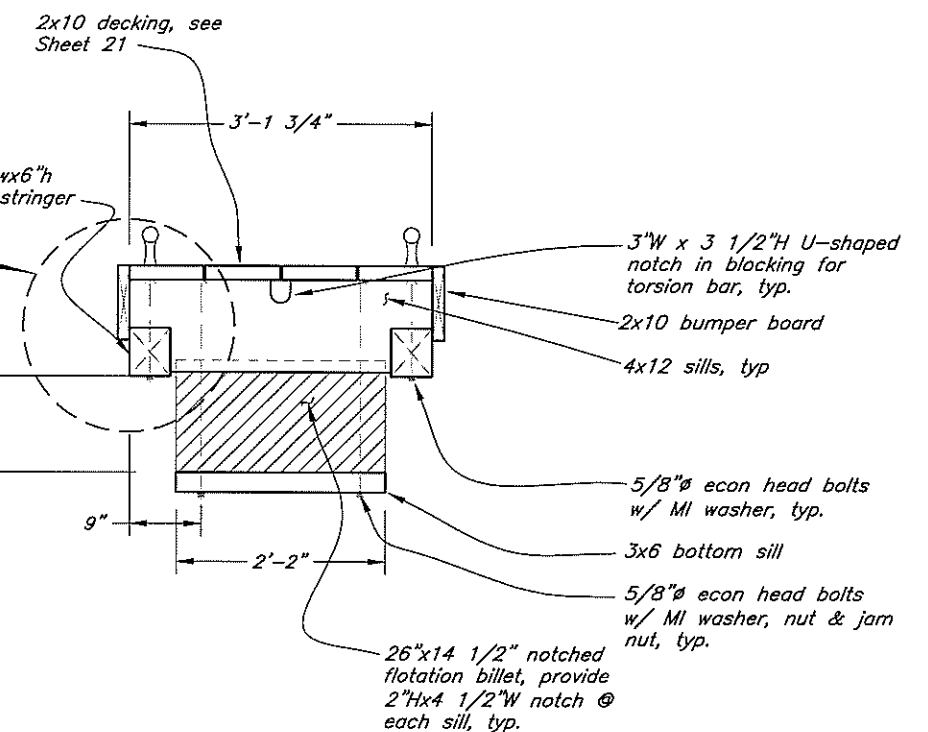
Brace Plate Detail

3
6

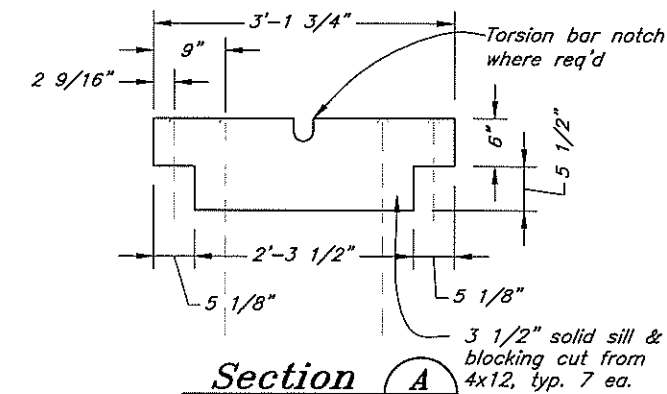


Section

A
6

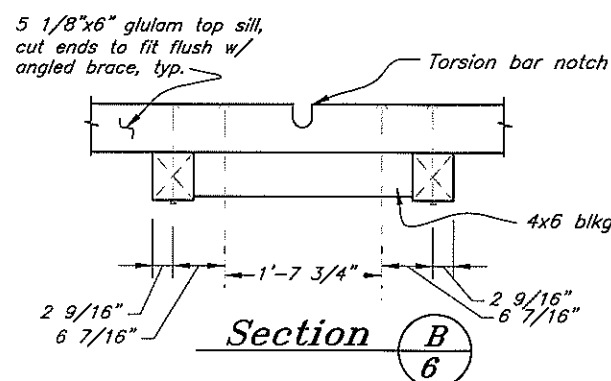


Typical 3' Wide Stall Float Section



Section

B
6



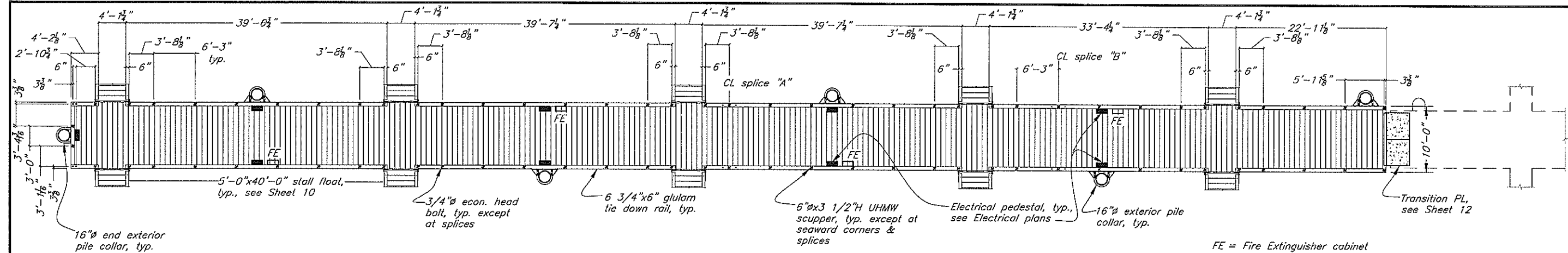
Section

B
6

NOT CONSTRUCTED

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

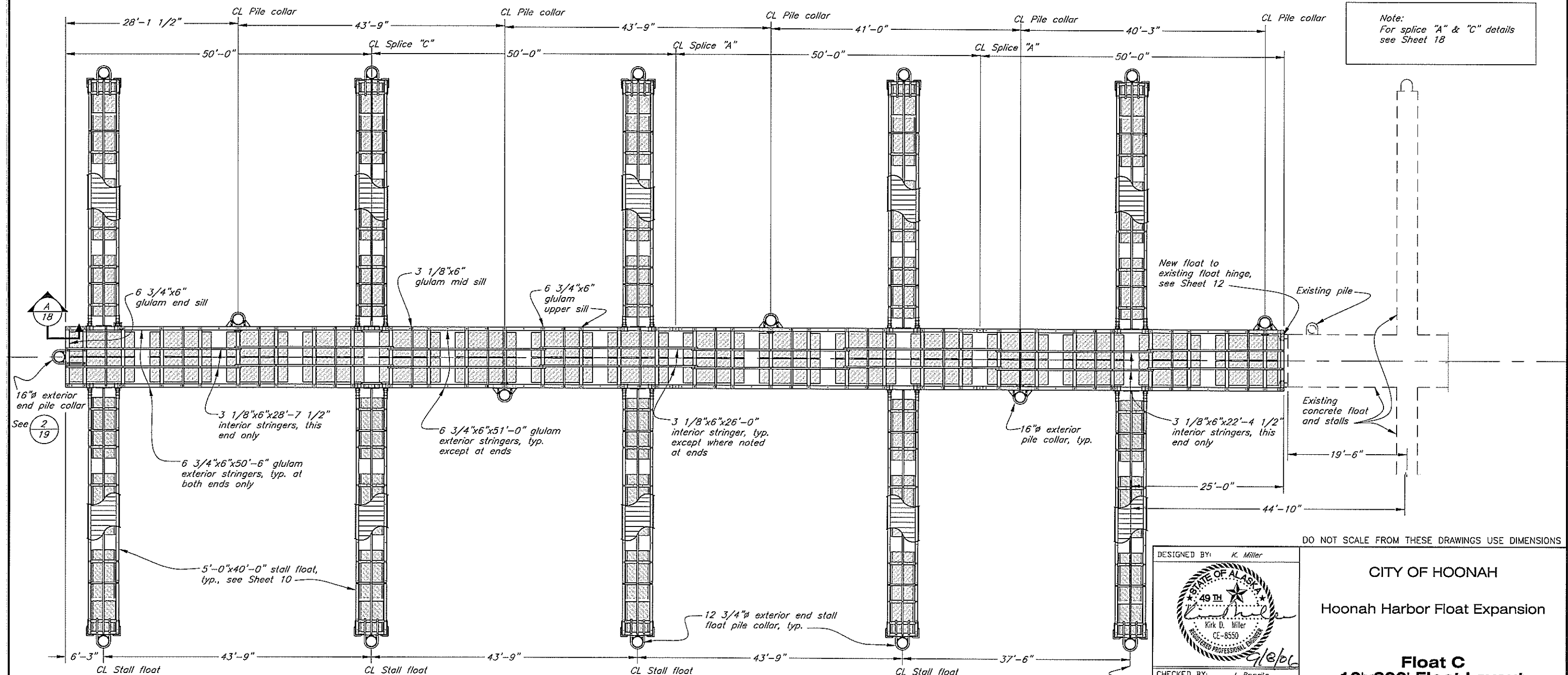
DESIGNED BY: K. Miller		CITY OF HOONAH			
		Hoonah Harbor Float Expansion			
CHECKED BY: J. Beedle		Float B Stall Float Details			
DRAFTED BY: T. Mores					
PATH: Q:\Hnh\67792\MF\Plans\Harbor\07 3' Stall float details.dwg		Fri, 08/Sep/06 01:40PM			
PLOT: PSPACE 1=1 Tab: Layout1					
REVISIONS		PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
NO. DATE DESCRIPTION		67792	2006	7	28



Float C - Deck Plan Tie Down Rail Layout

FE = Fire Extinguisher cabinet
see sheet 21

Note:
For splice "A" & "C" details
see Sheet 18



Float C Framing Plan

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

DESIGNED BY: K. Miller

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

PATH: Q:\Hnh\67792\MF\PlanSet-Harbor\08 Float C layout.dwg
PLOT: PSPACE 1=1 Tab: Float C

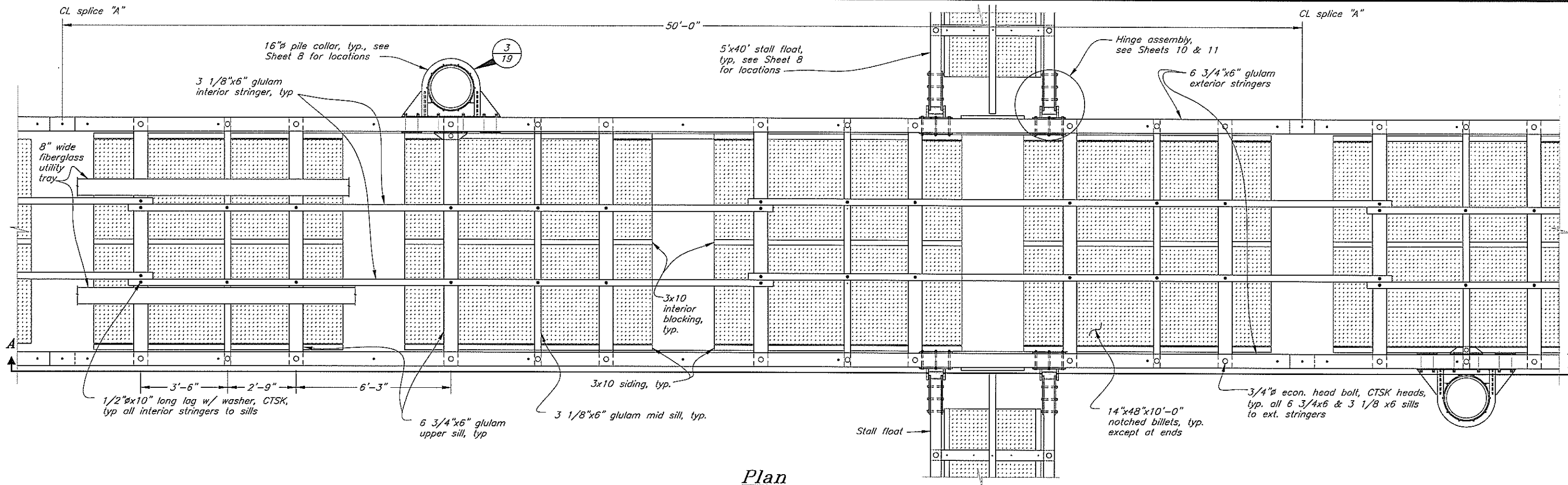
9/8/06

CITY OF HOONAH

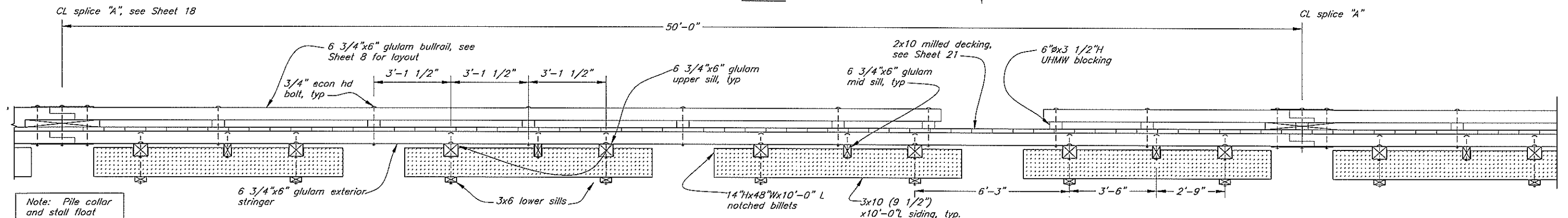
Hoonah Harbor Float Expansion

Float C
10'x200' Float Layout

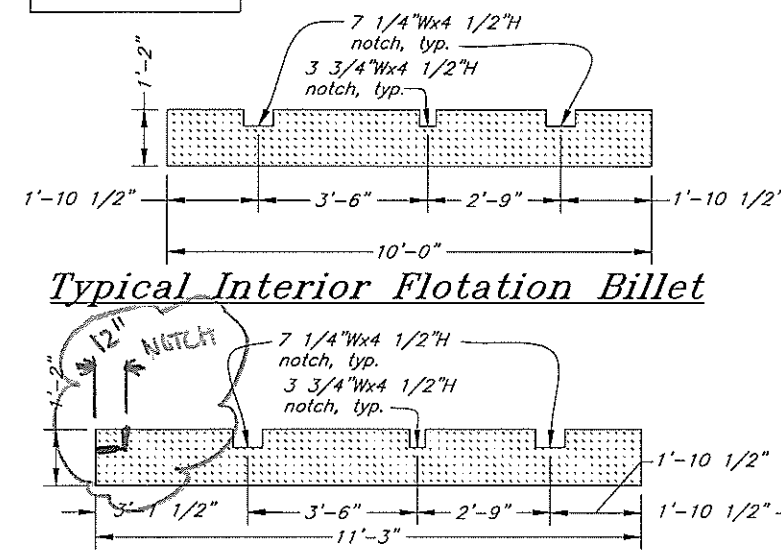
REVISIONS				PROJECT DESIGNATION			
NO.	DATE	DESCRIPTION		67792	2006	8	28



Plan

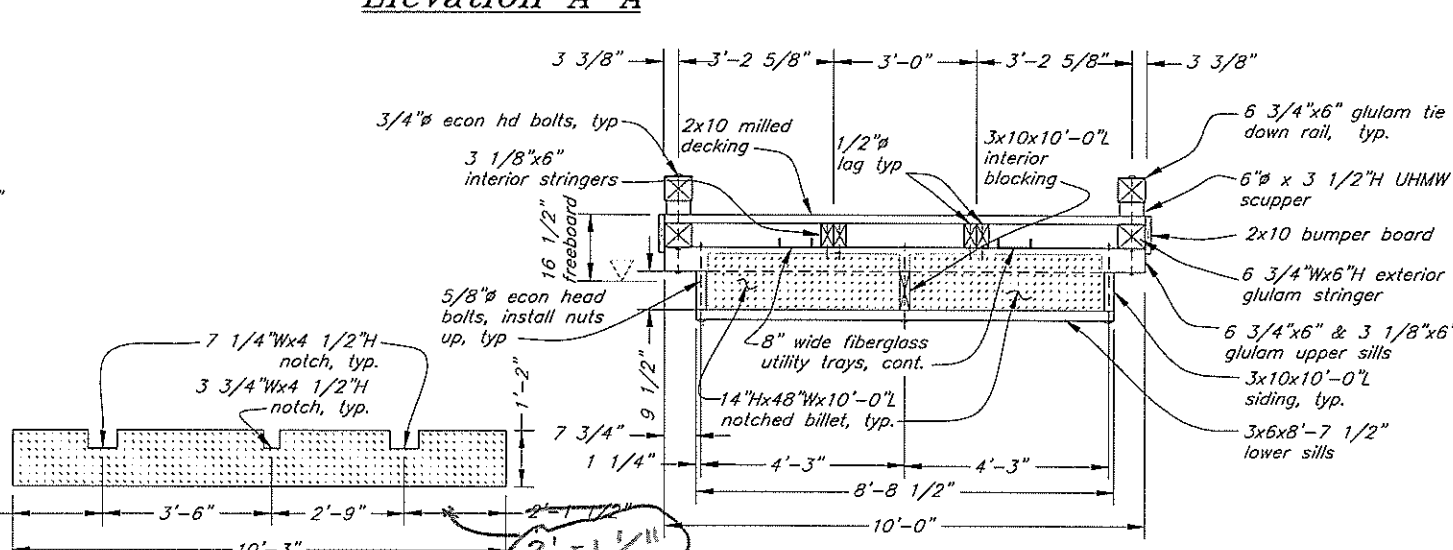


Elevation A-A



Typical Interior Flotation Billet

West End Flotation Billet

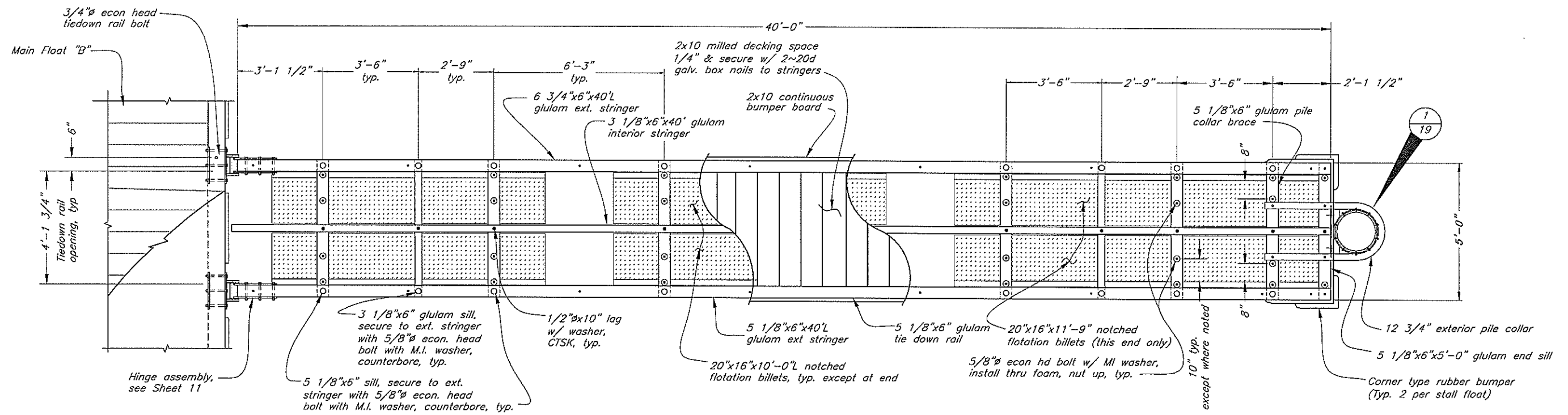


Typical Section

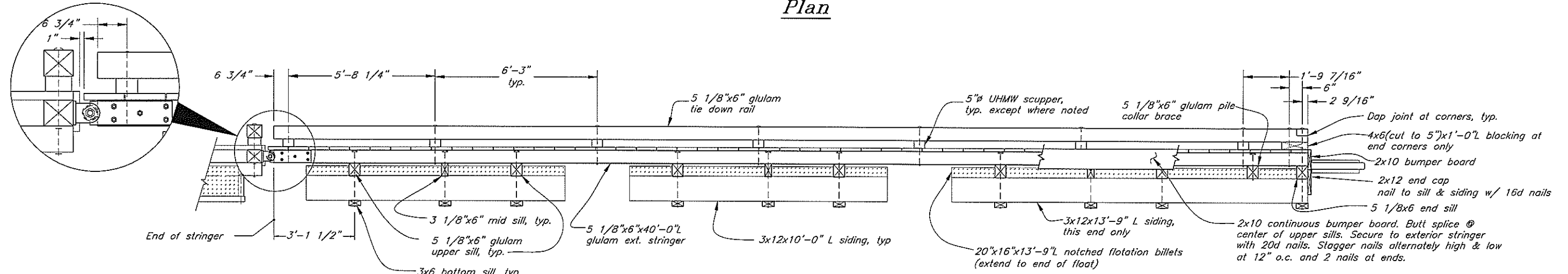
East End Flotation Billet

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

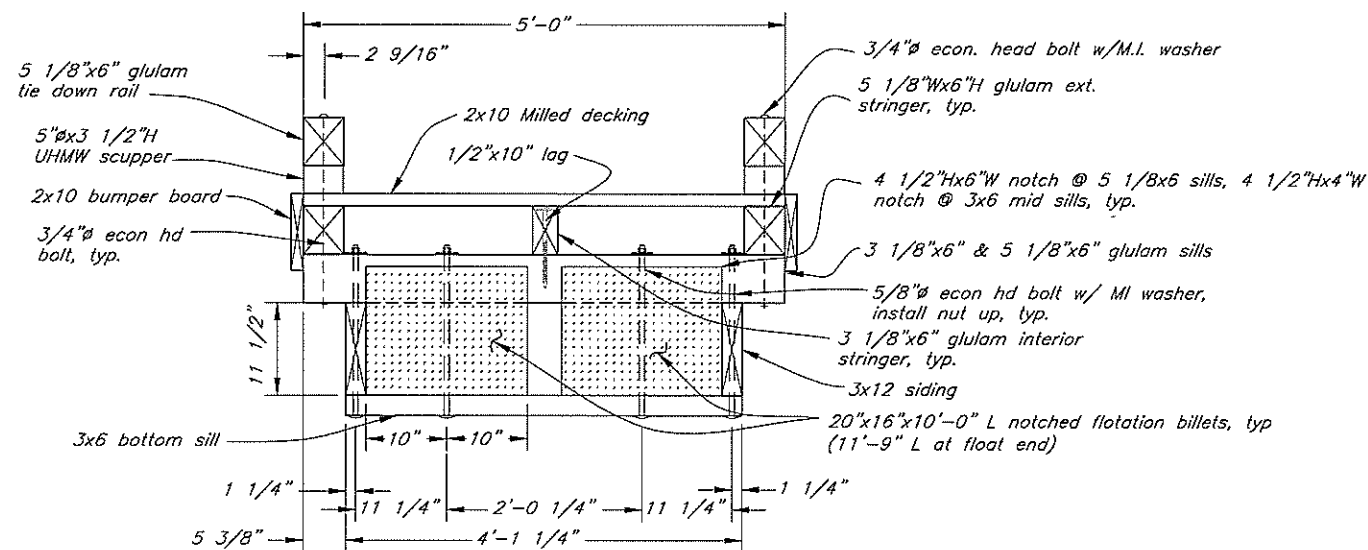
DESIGNED BY: K. Miller		CITY OF HOONAH															
		Hoonah Harbor Float Expansion															
CHECKED BY: J. Beedle		Float C															
DRAFTED BY: C. Fuman		10'x50' Module															
PATH: Q:\Hnh\67792\MF\PlanSet-Harbor\09 Float C 50' module.dwg																	
PLOT: PSPACE 1=1 Tab: Float C																	
<table border="1"> <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"> <thead> <tr> <th>PROJECT DESIGNATION</th> <th>YEAR</th> <th>SHEET NO.</th> <th>TOTAL SHEETS</th> </tr> </thead> <tbody> <tr> <td>67792</td> <td>2006</td> <td>9</td> <td>28</td> </tr> </tbody> </table>		PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS	67792	2006	9	28
NO.	DATE	REVISIONS DESCRIPTION															
PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS														
67792	2006	9	28														



Plan



Elevation



Typical Section

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

DESIGNED BY: K. Miller

CHECKED BY: J. Beedle

DRAFTED BY: C. Fuman

PATH: Q:\Hnh\67792\MF\PlanSet-Harbor\10 40' floats.dwg

PLOT: PSPACE 1=1 Tab: Layout1

9/8/06

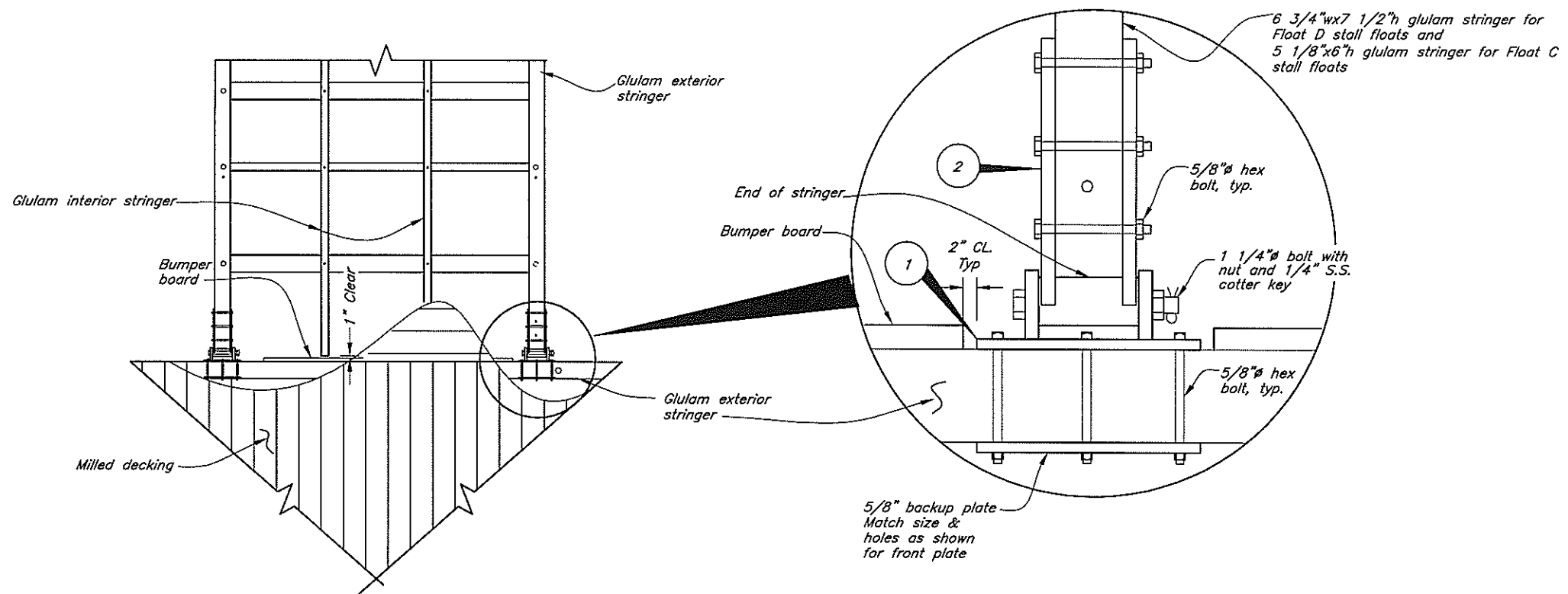
NO	DATE	REVISIONS DESCRIPTION

CITY OF HOONAH

Hoonah Harbor Float Expansion

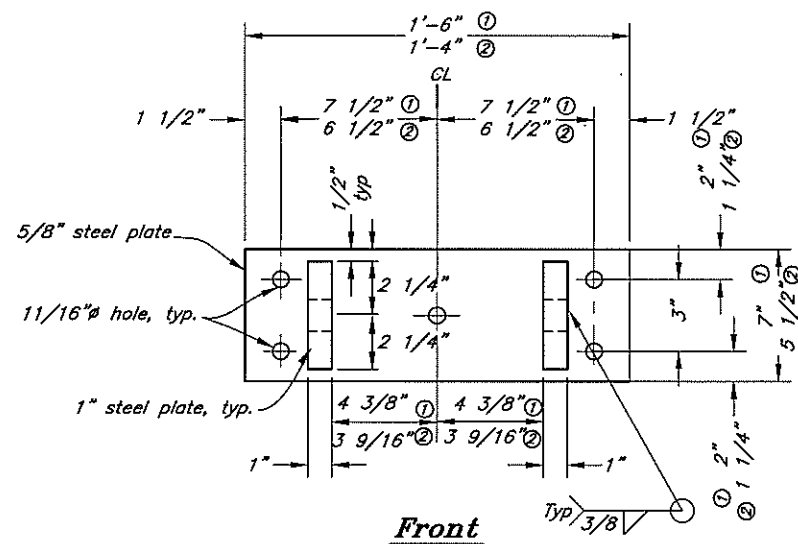
Float C
5x40' Stall Floats

PROJECT DESIGNATION	YEAR	SHEET NO	TOTAL SHEETS
67792	2006	10	28

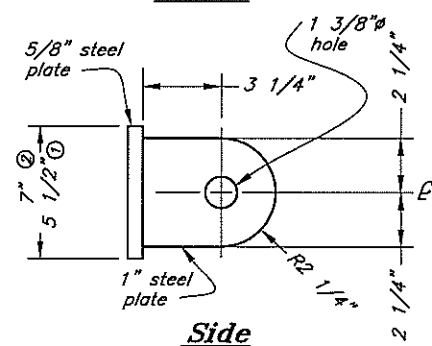


Typ Hinge Connection Plan

Enlarged Hinge Detail

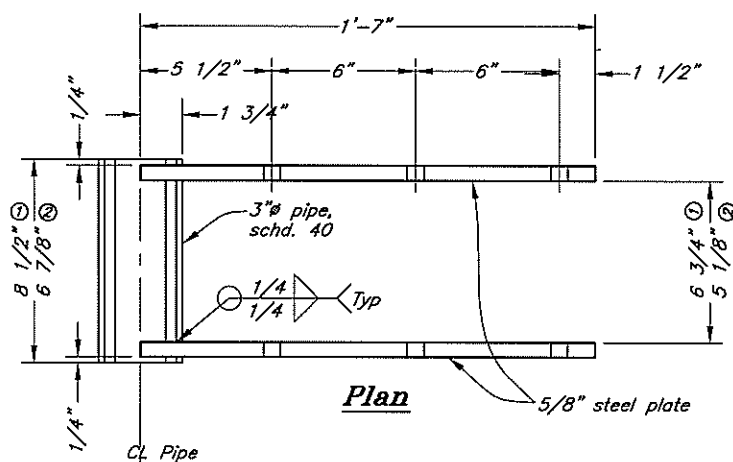


Front

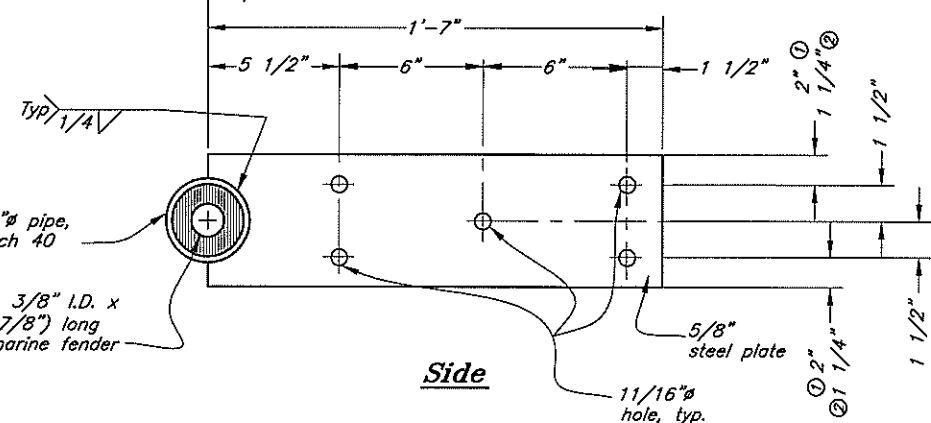


Side

Hinge Weldment Detail 1



Plan



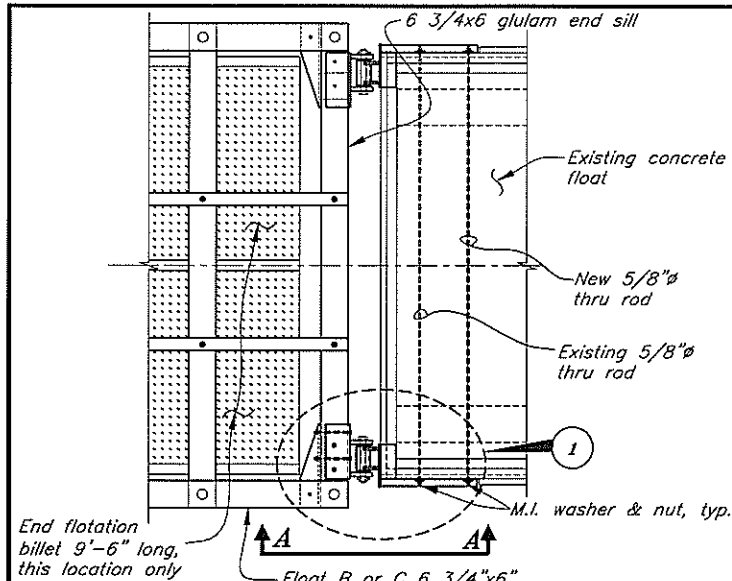
Side

Hinge Weldment Detail 2

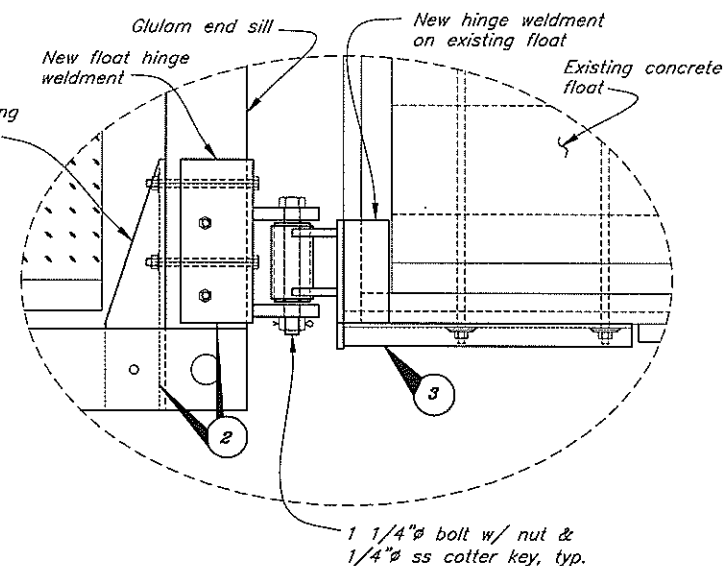
- Notes:
- ① Hinge weldment dimension for Float D stall floats.
 - ② Hinge weldment dimension for Float C stall floats.
- All other hinge weldment dimensions typical.

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

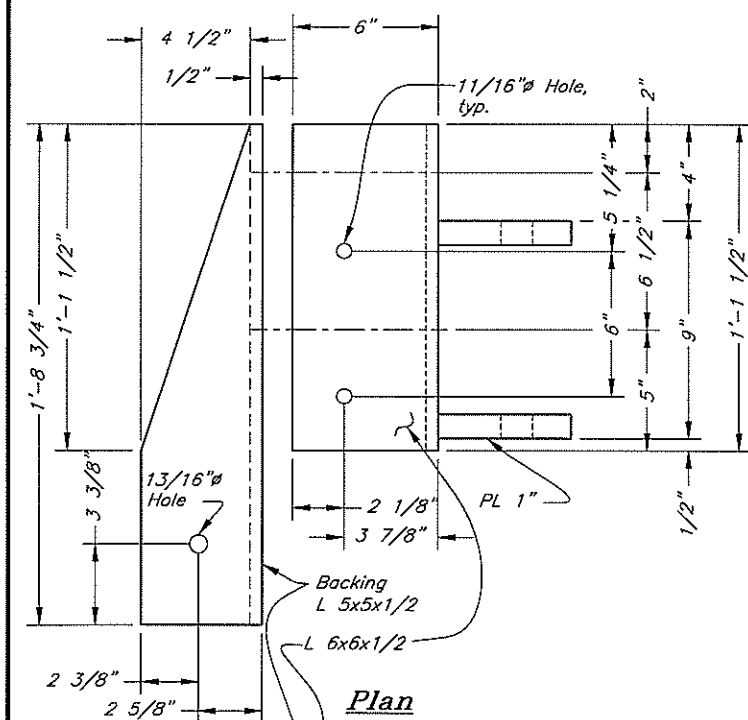
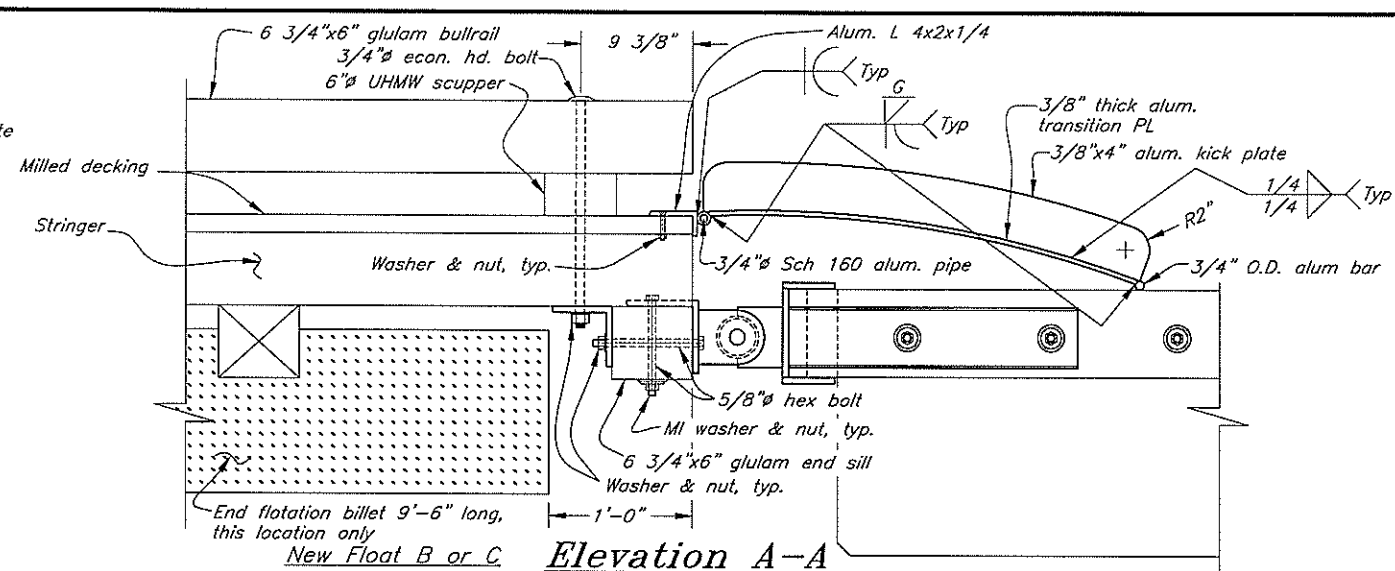
DESIGNED BY: K. Miller														
CITY OF HOONAH Hoonah Harbor Float Expansion Floats C & D Stall Float Hinges														
CHECKED BY: J. Beedle DRAFTED BY: Fuman		PATH: Q:\Hnh\67792\MF\PlanSet-Harbor\11 B & C Stall hinges-.dwg PLOT: PSPACE 1=1 TAB: DETAIL Wed, 23/Aug/06 11:50AM												
<table border="1"> <thead> <tr> <th colspan="3">REVISIONS</th> </tr> <tr> <th>NO.</th> <th>DATE</th> <th>DESCRIPTION</th> </tr> </thead> <tbody> <tr> <td> </td> <td> </td> <td> </td> </tr> </tbody> </table>		REVISIONS			NO.	DATE	DESCRIPTION				PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
REVISIONS														
NO.	DATE	DESCRIPTION												
		67792	2006	11	28									



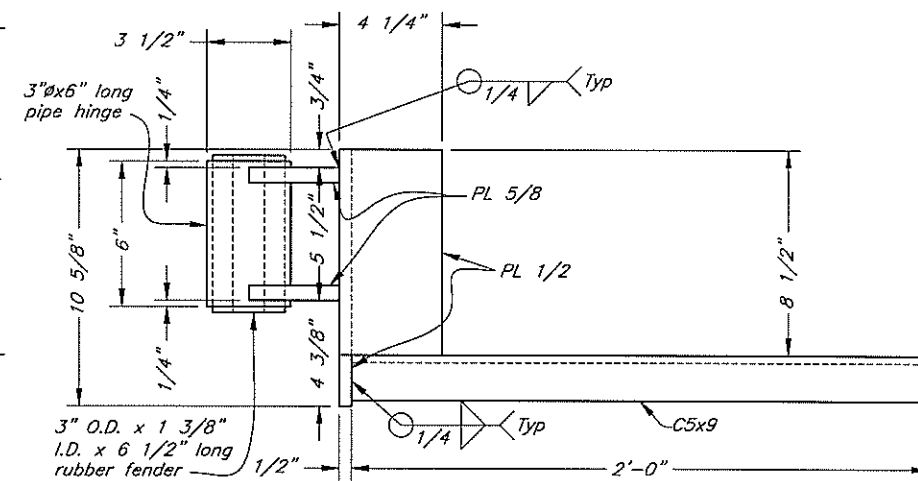
Floats B & C East End Details



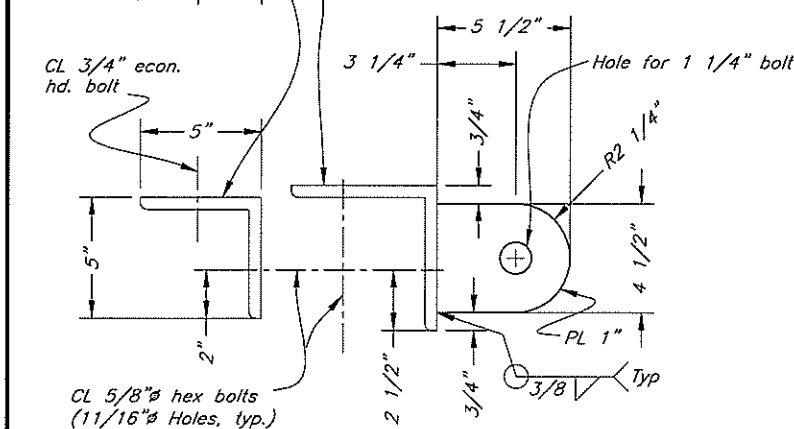
Detail 1



Plan

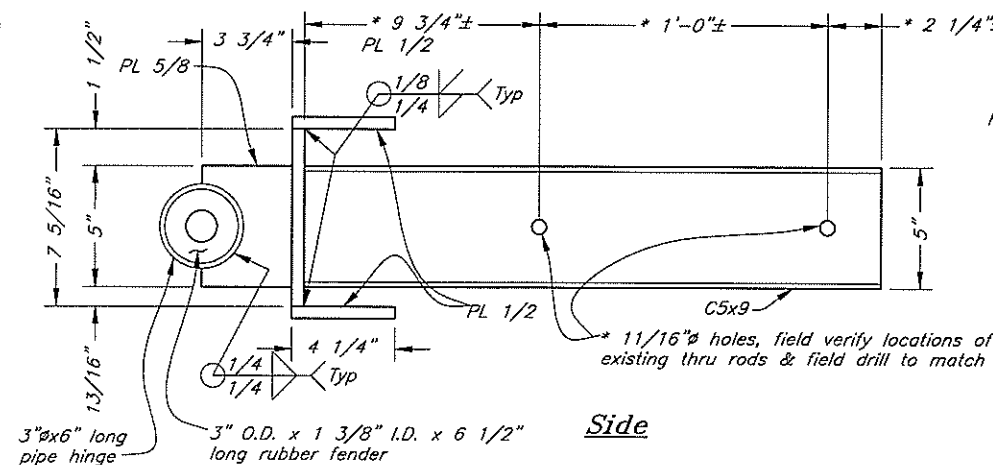


Plan



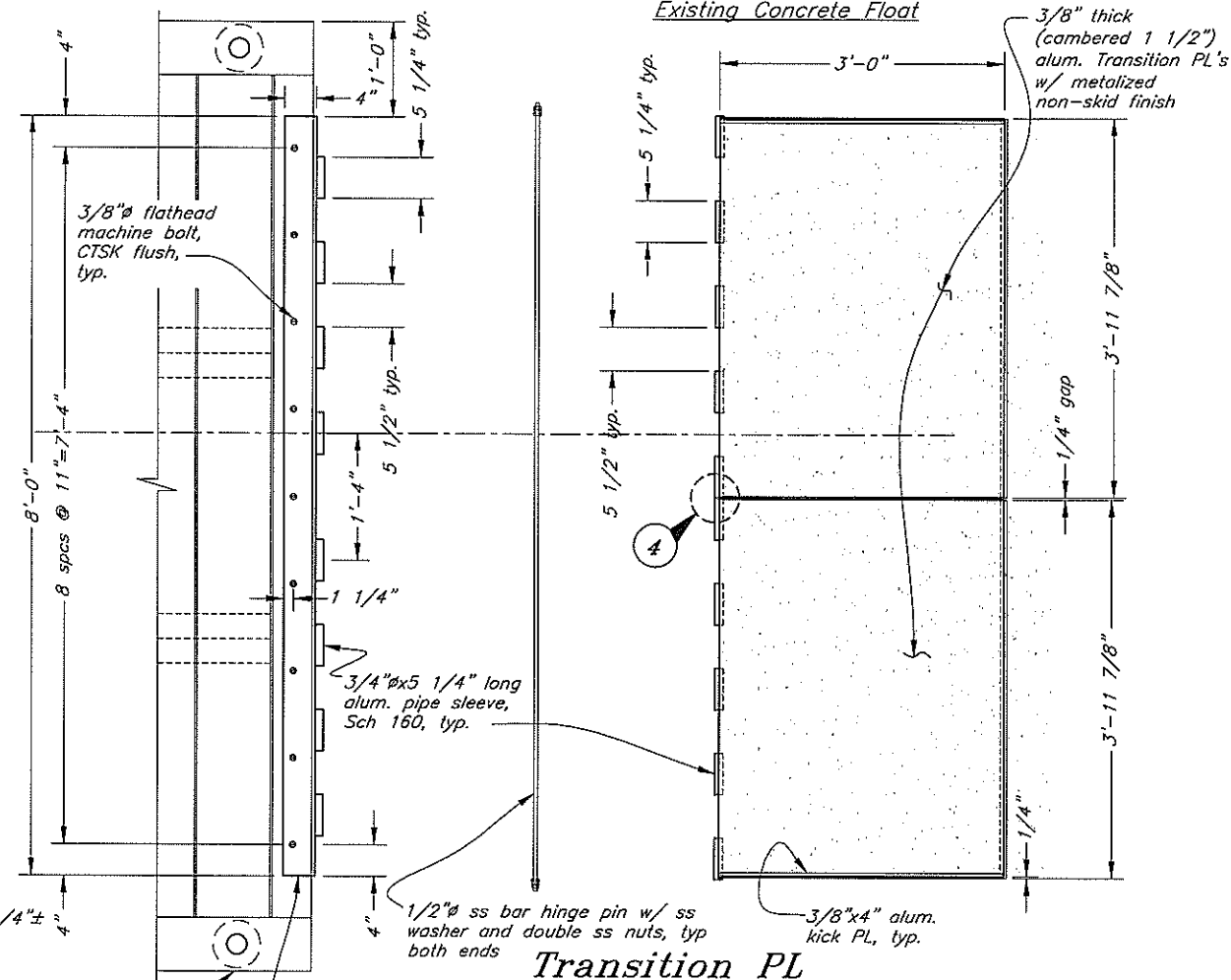
Side

Float B & C Hinge Weldment Detail 2

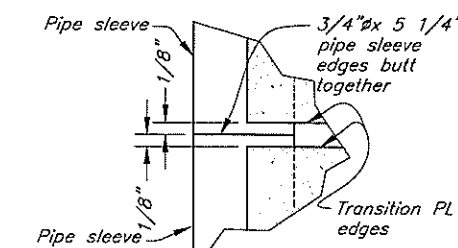


Side

Existing Float Hinge Weldment Detail 3



Transition PL

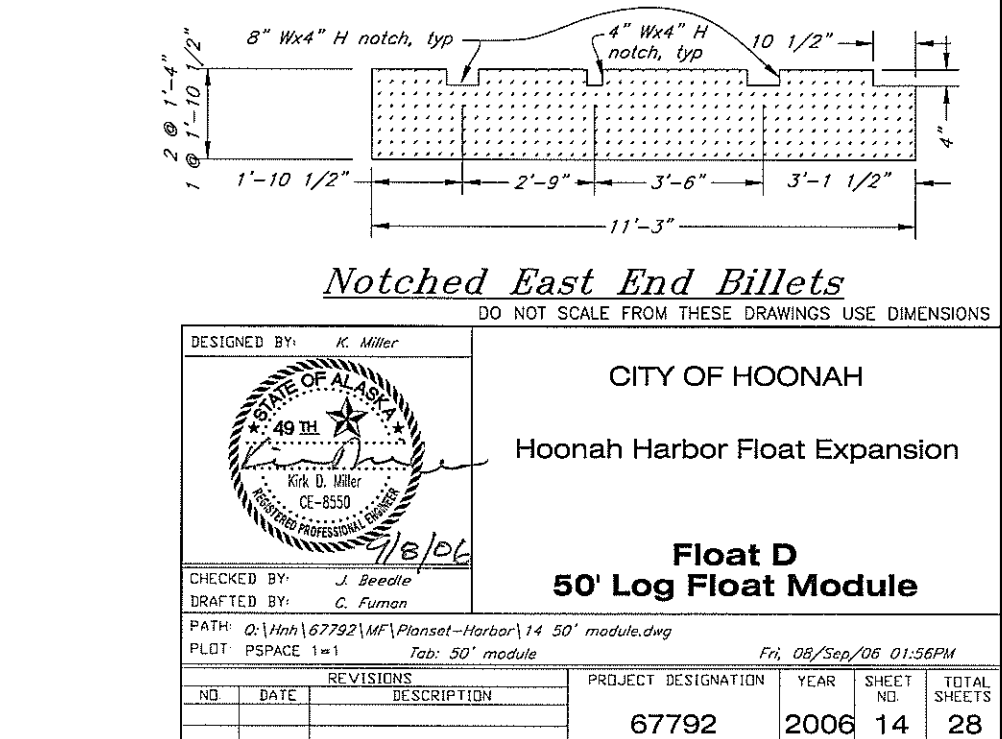
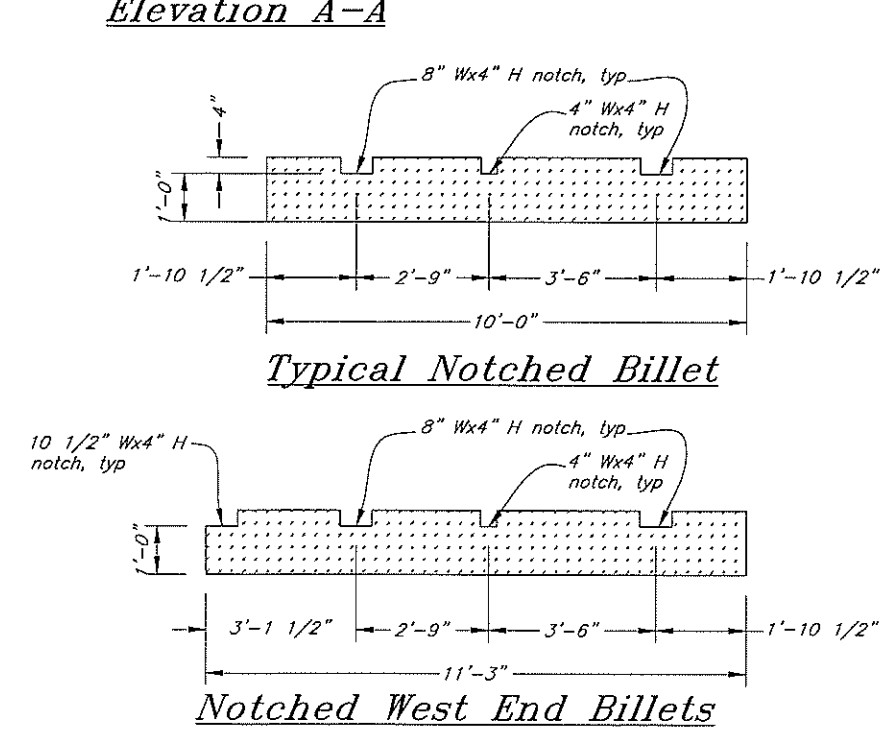
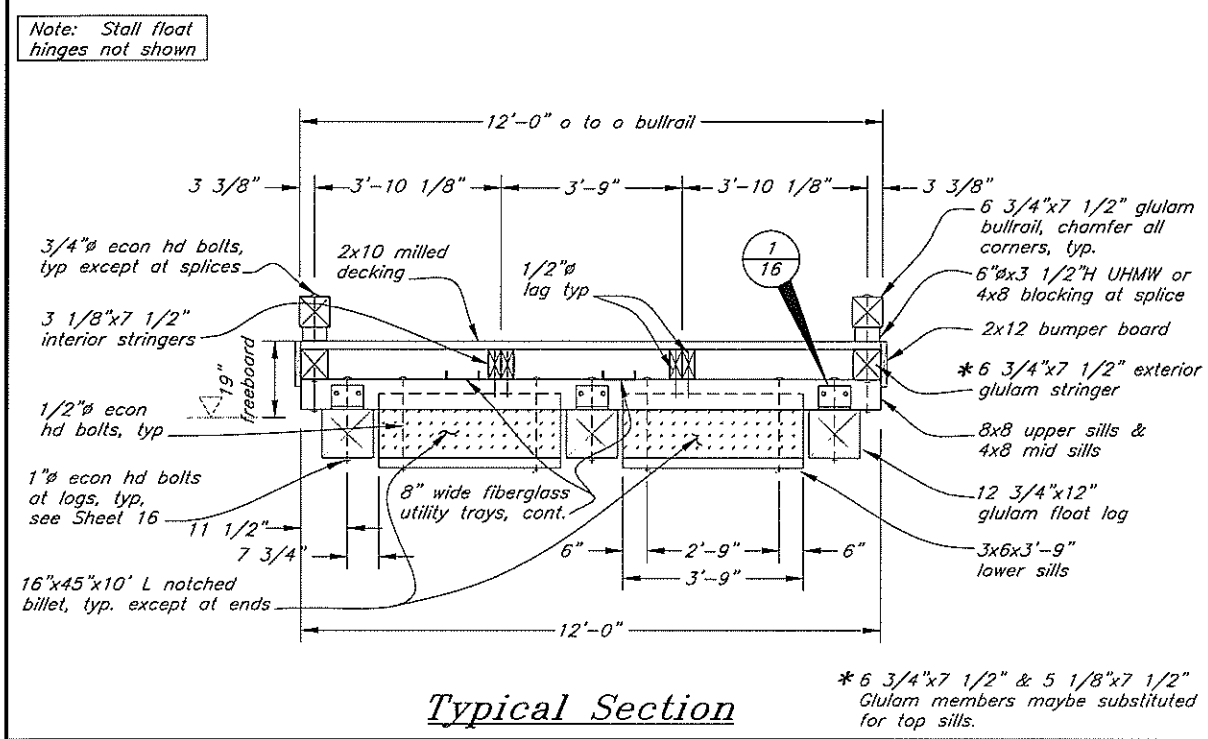
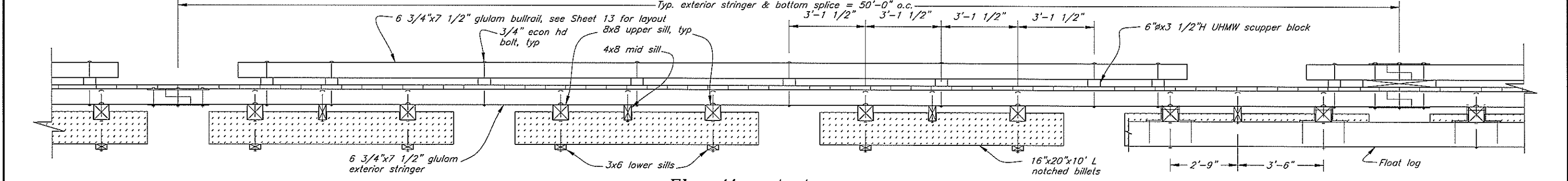
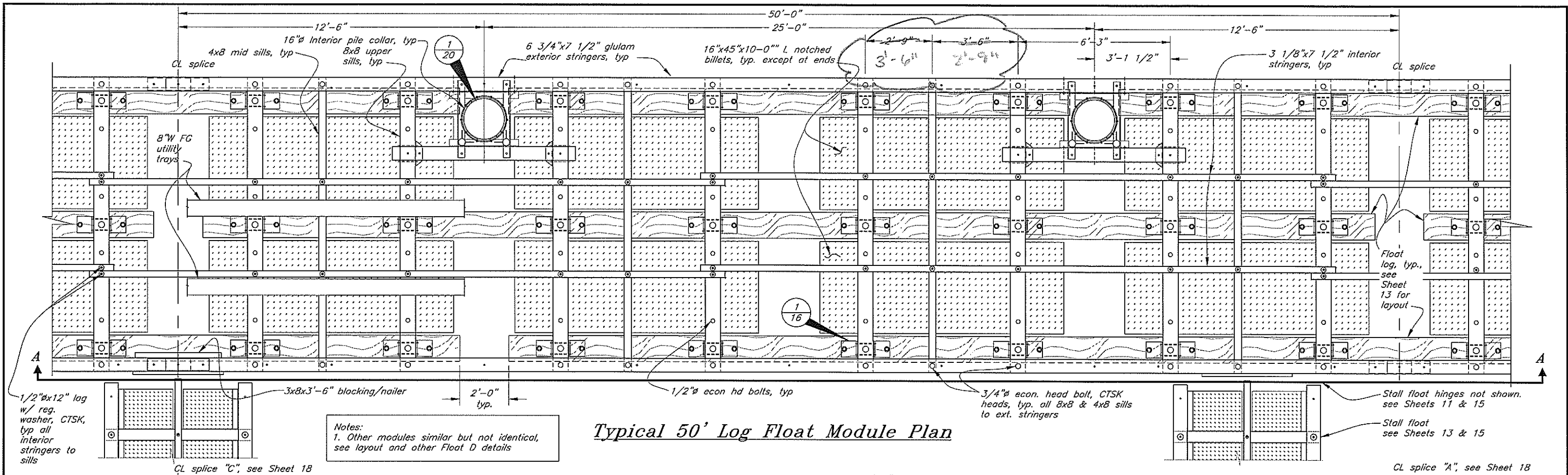


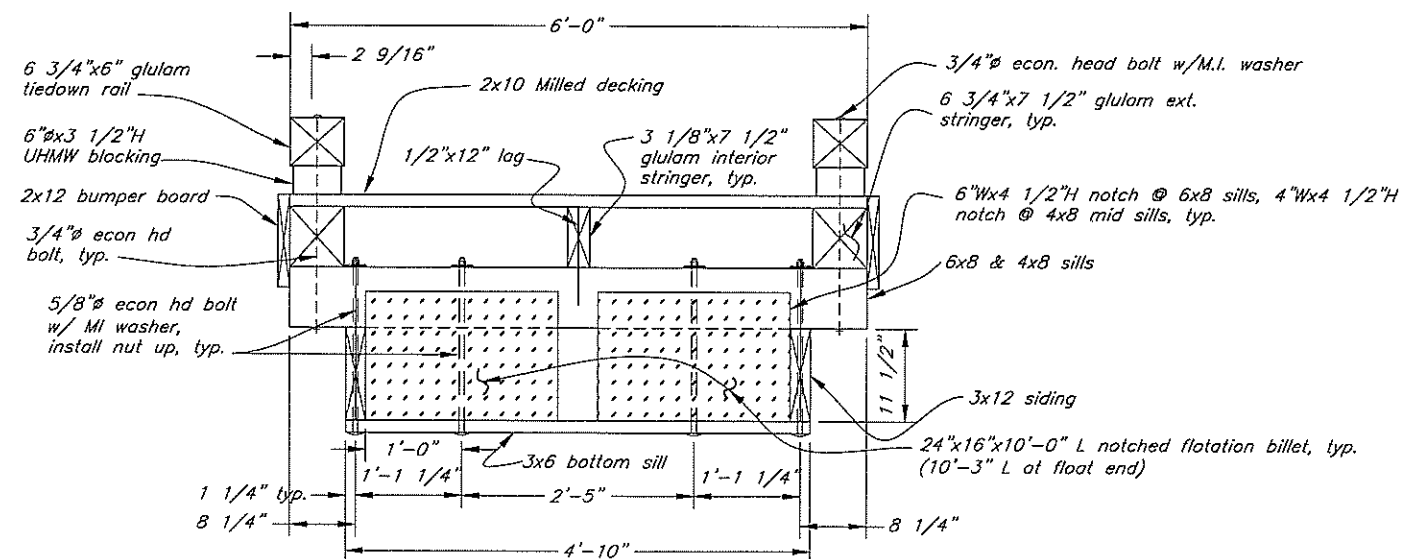
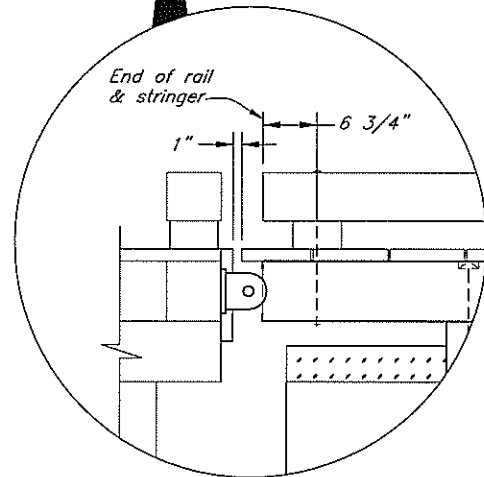
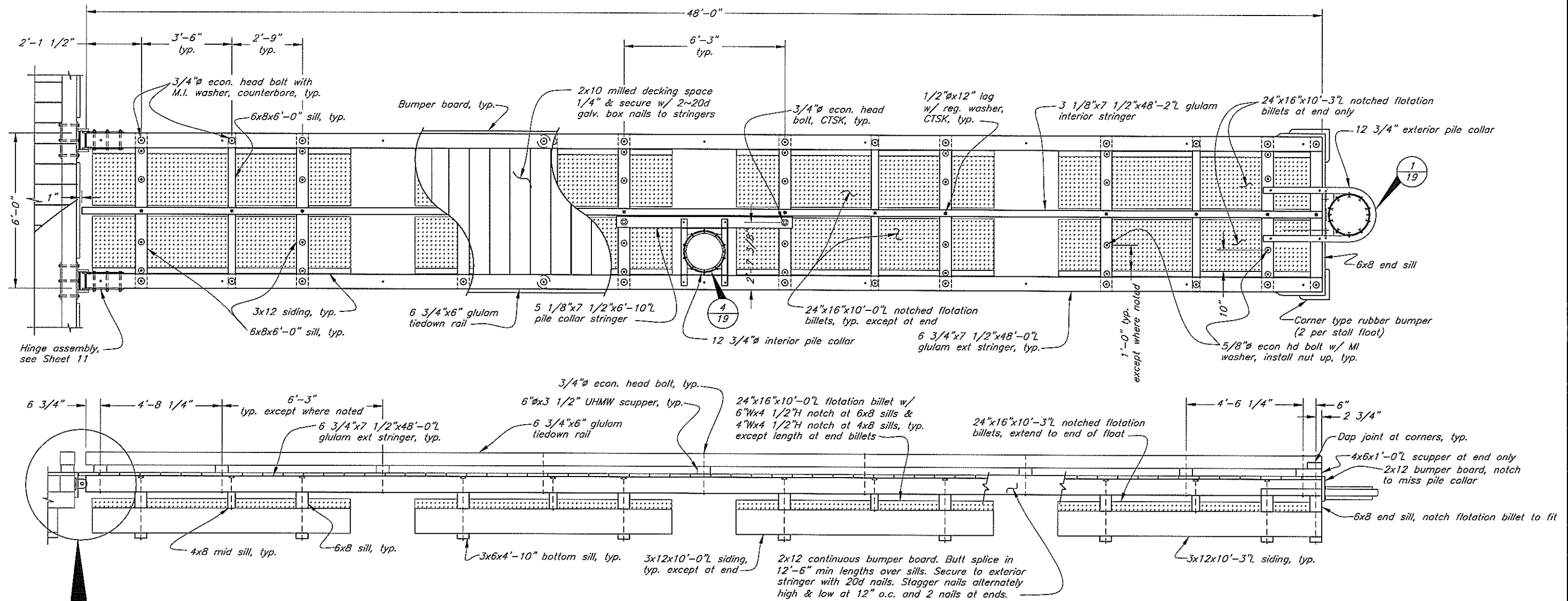
Note: Pipe sleeves extend 1/8" beyond Trans PL's to create 1/4" gap

Detail 4

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

DESIGNED BY: K. Miller		CITY OF HOONAH			
CHECKED BY: J. Beedle		Hoonah Harbor Float Expansion			
DRAFTED BY: C. Fuman		Floats B & C East End Hinges			
PATH: Q:\Hnh\67792\MF\PlanSet-Harbor\12 Float B & C east end hinges.dwg		67792			
PLOT: PSPACE 1=1		2006			
Tab: B&C New-old Hinge&TP		12			
Wed, 23/Aug/06 11:50AM		28			
REVISIONS		PROJECT DESIGNATION		YEAR	TOTAL SHEETS
NO.	DATE	DESCRIPTION		NO.	





DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

DESIGNED BY: K. Miller

CHECKED BY: J. Beedle

DRAFTED BY: C. Fuman

PATH: Q:\Hnh\67792\MF\Plansat-Harbor\15 48' stall floats.dwg

PLOT: PSPACE 1=1 Tab: Layout1

WED, 23/AUG/06 11:49AM

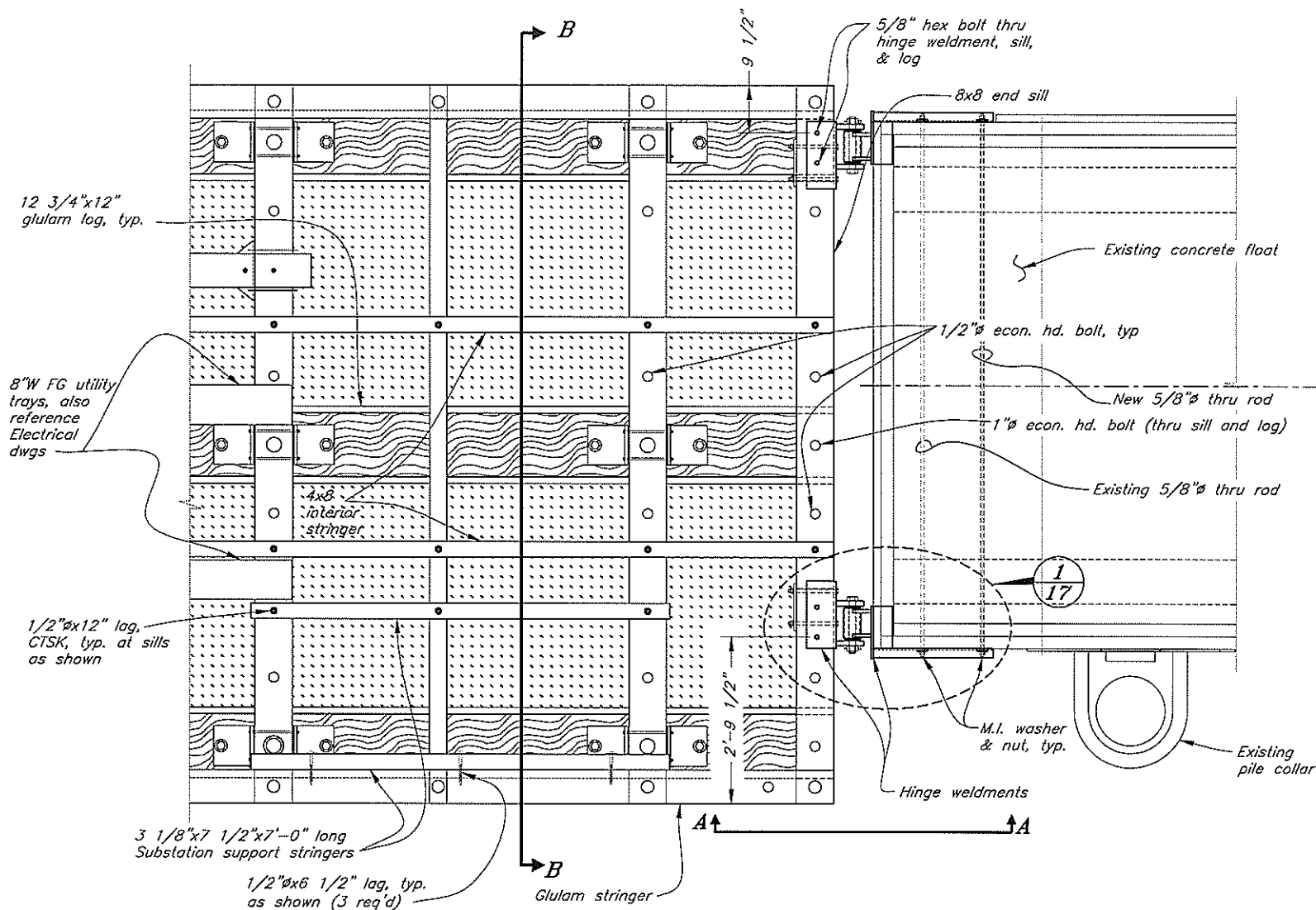
CITY OF HOONAH

Hoonah Harbor Float Expansion

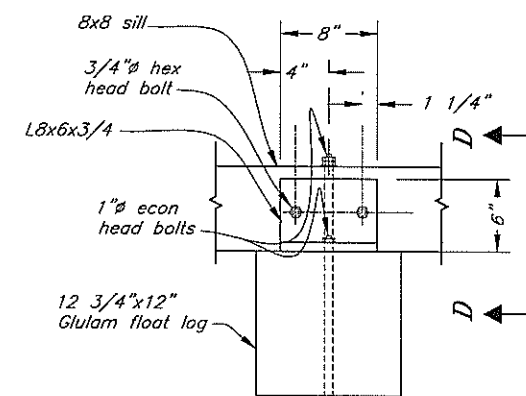
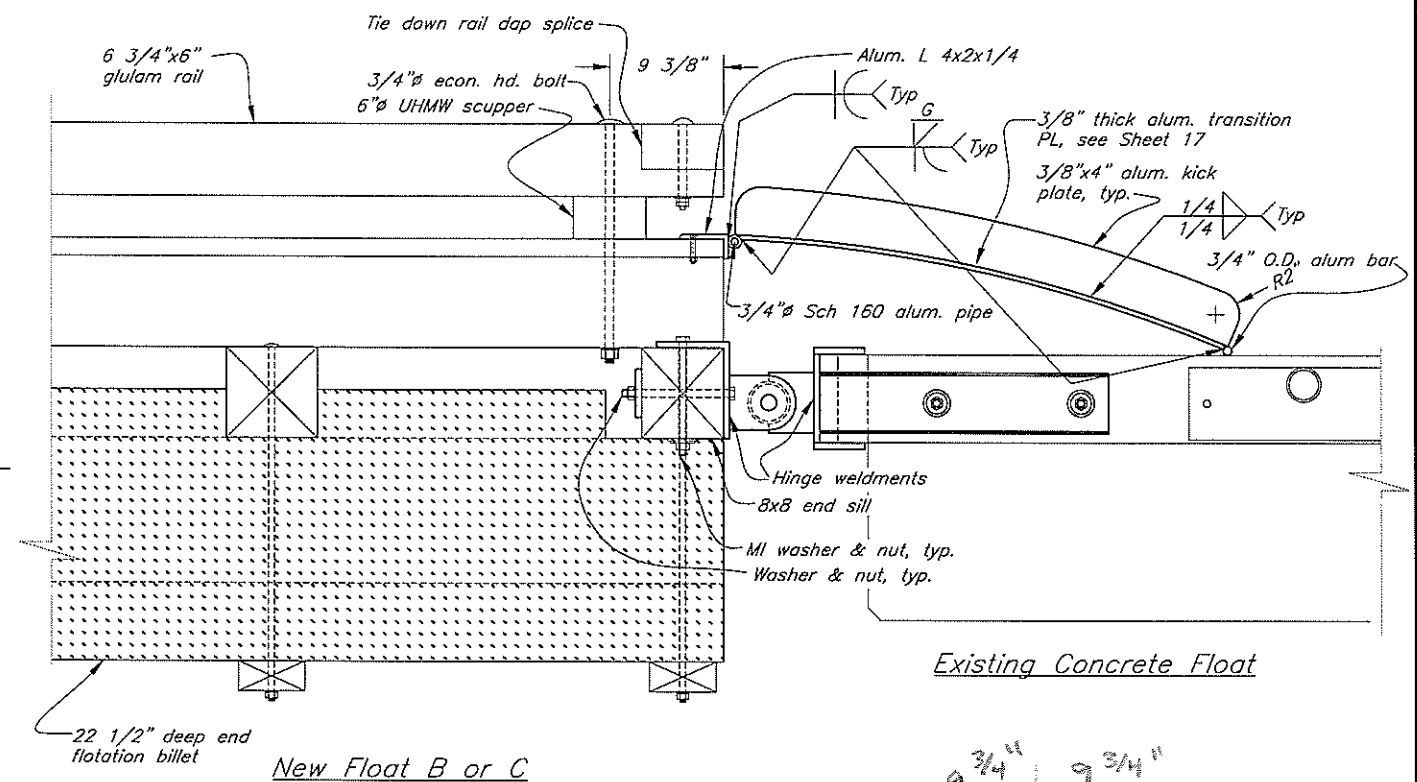
Float D

6'x48' Stall Float

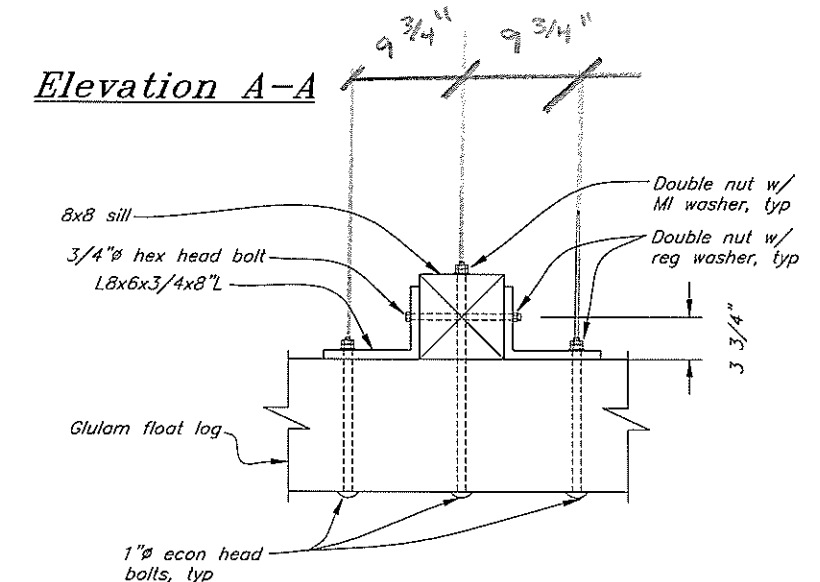
REVISIONS				PROJECT DESIGNATION		YEAR	SHEET NO.	TOTAL SHEETS
NO.	DATE	DESCRIPTION		67792		2006	15	28



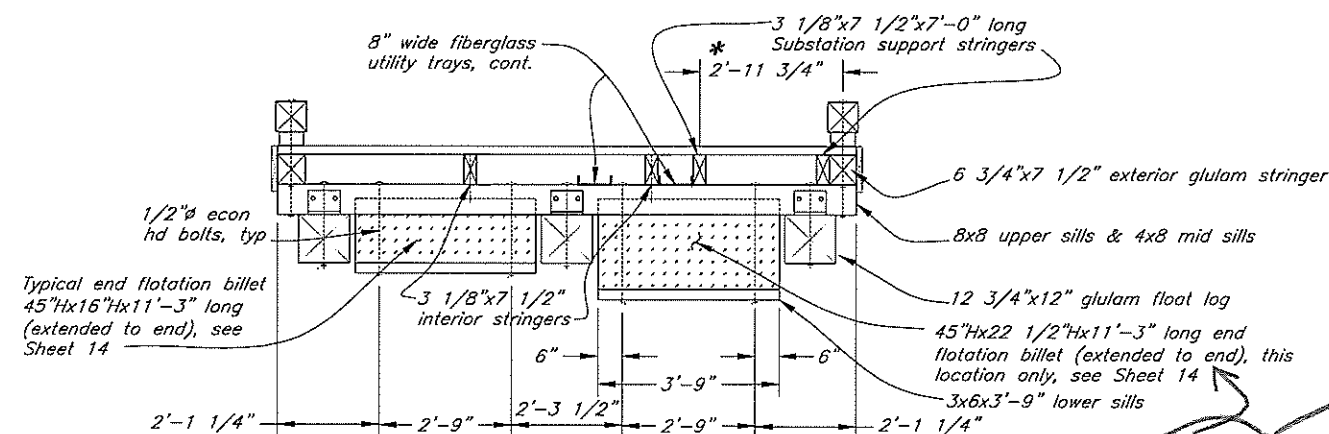
Float D East End Details



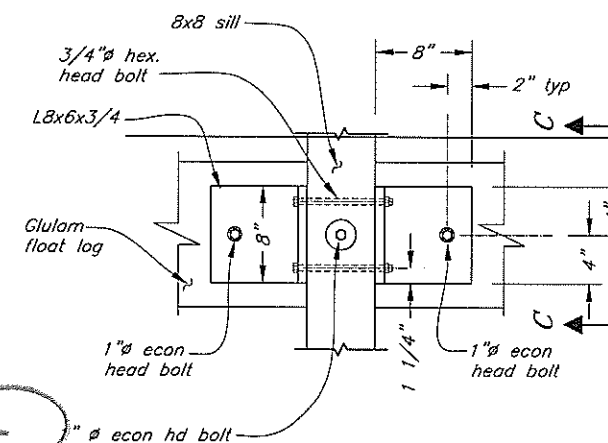
Section C-C



Section D-D



Section B-B



Connection Detail

* Coordinate stringer support location w/ electrical substation mnfr.

THIS BILLET NOT PROVIDED ONLY 1 ea 10x20x9' Typ. Log to Sill w/ NOTCHES PLACED! 1/14

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

DESIGNED BY: K. Miller

CHECKED BY: J. Beedle

DRAFTED BY: C. Fuman

PATH: Q:\Hnh\67792\MF\PlanSet-Harbor\16 Float D east end.dwg

PLOT: PSPACE 1=1 Tab: D End details

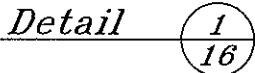
9/8/06

CITY OF HOONAH

Hoonah Harbor Float Expansion

Float D Details

REVISIONS			PROJECT DESIGNATION		YEAR	SHEET NO.	TOTAL SHEETS
NO.	DATE	DESCRIPTION	67792		2006	16	28

[illegible]

Plan



Front View (Left):

- Overall width: 8'-0"
- Overall height: 11'-7-4"
- 8 spcs @ 11'-7-4" (vertical spacing)
- 3/8" ϕ flathead machine screw w/ nut, CTSK flush, typ.
- 4" (horizontal dimension at top)
- 1'-0" (horizontal dimension at top)
- 5 1/4" typ. (horizontal dimension at top)
- 5 1/2" typ. (horizontal dimension at top)
- 1'-1-4" (horizontal dimension at top)
- 3/4" ϕ x 5 1/4" long alum. pipe sleeve, Grade 160, typ.
- 1/2" ϕ ss bar hinge pin w/ ss washer and double ss nuts, typ both ends
- 4" (horizontal dimension at bottom)
- 3'-0" (horizontal dimension at bottom)
- Alum. L 4x2x1/4 hinge plate
- Float D (bottom left)

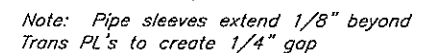
Side View (Right):

- Overall width: 3'-6"
- Overall height: 3'-11 7/8"
- 3/8" thick (cambered 1 1/2") alum. Transition PL's w/ metalized non-skid finish
- 5 1/4" typ. (horizontal dimension at top)
- 5 1/2" typ. (horizontal dimension at top)
- 4 (circled number)
- 1/4" gap (vertical dimension at bottom)
- 3'-11 7/8" (vertical dimension at bottom)
- 1/4" (vertical dimension at bottom)
- 3/8" x 4" alum. kick PL, typ.

Transition PL

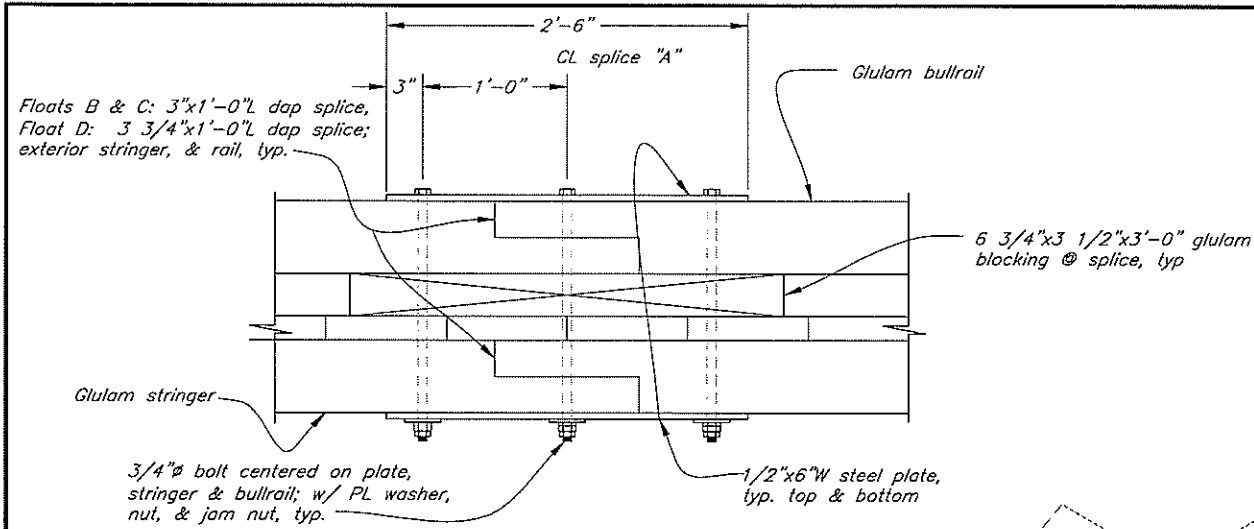
Detail View (Bottom Right):

- Pipe sleeve
- 1/8" (dimension)
- 3/4" ϕ x 5 1/4" pipe sleeve edges butt together

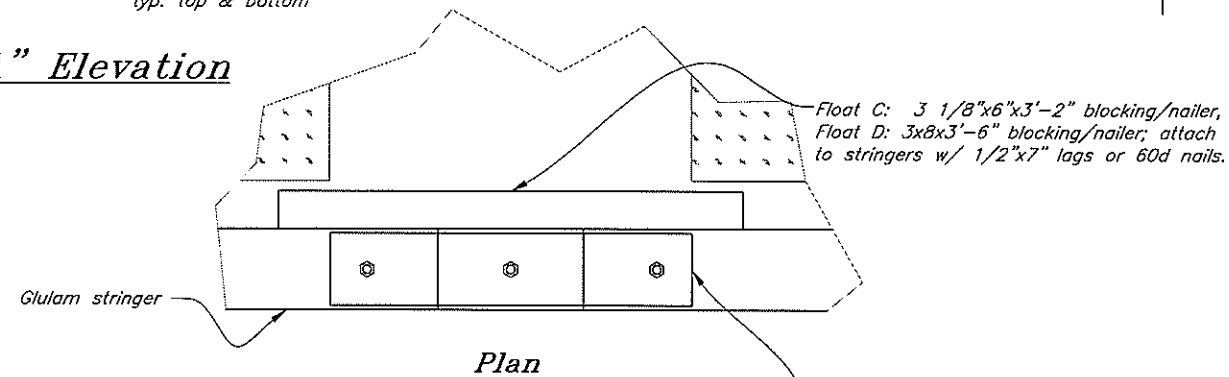
Transition PL

Detail 4

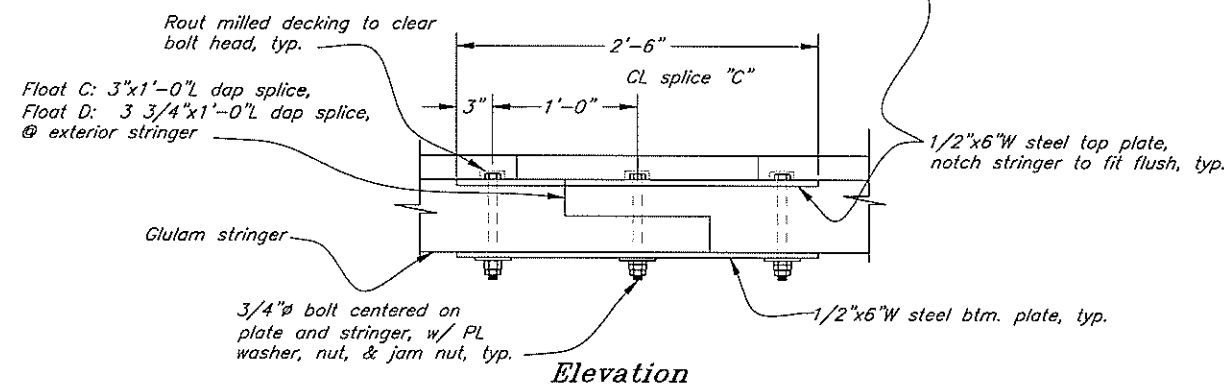
REVISIONS			PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
NO.	DATE	DESCRIPTION				
			67792	2006	17	28



Splice "A" Elevation

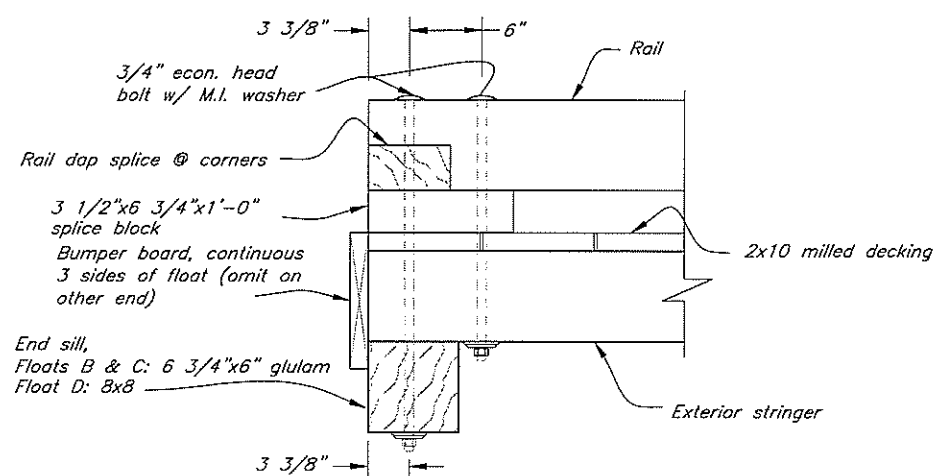


Plan

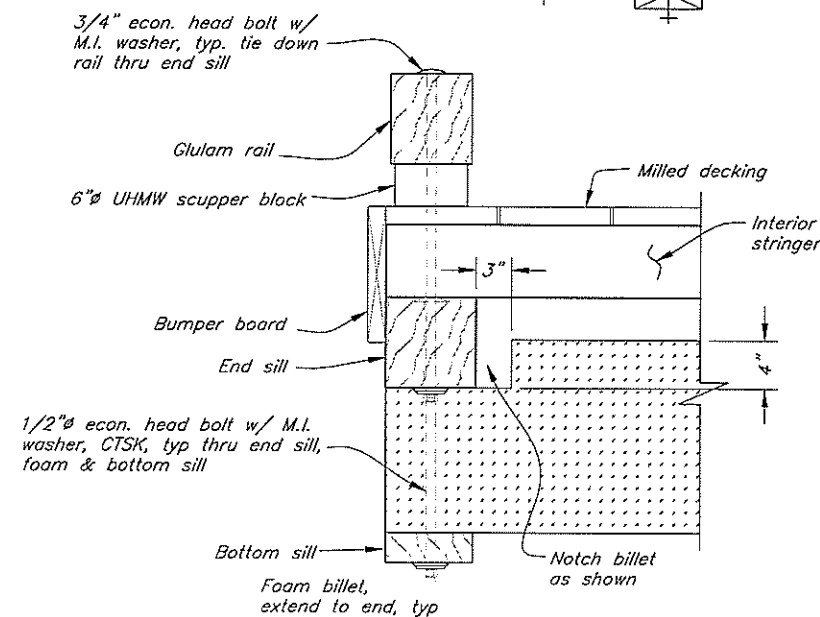


Elevation

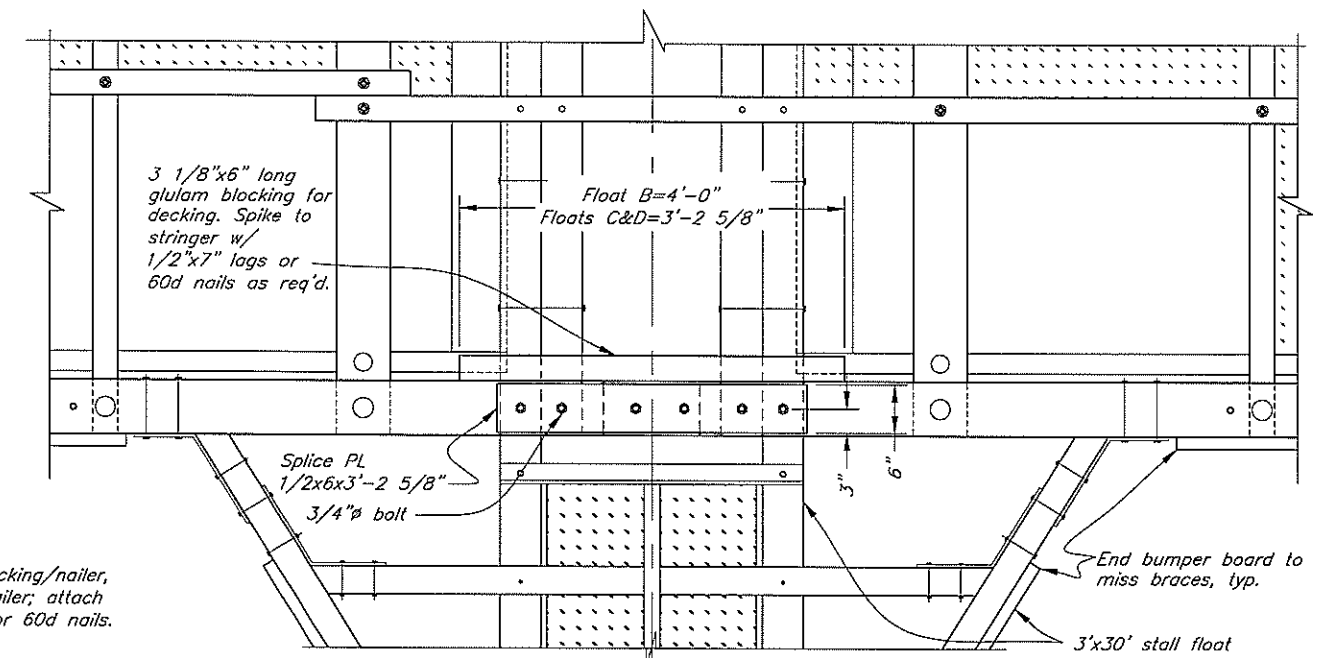
Splice "C"



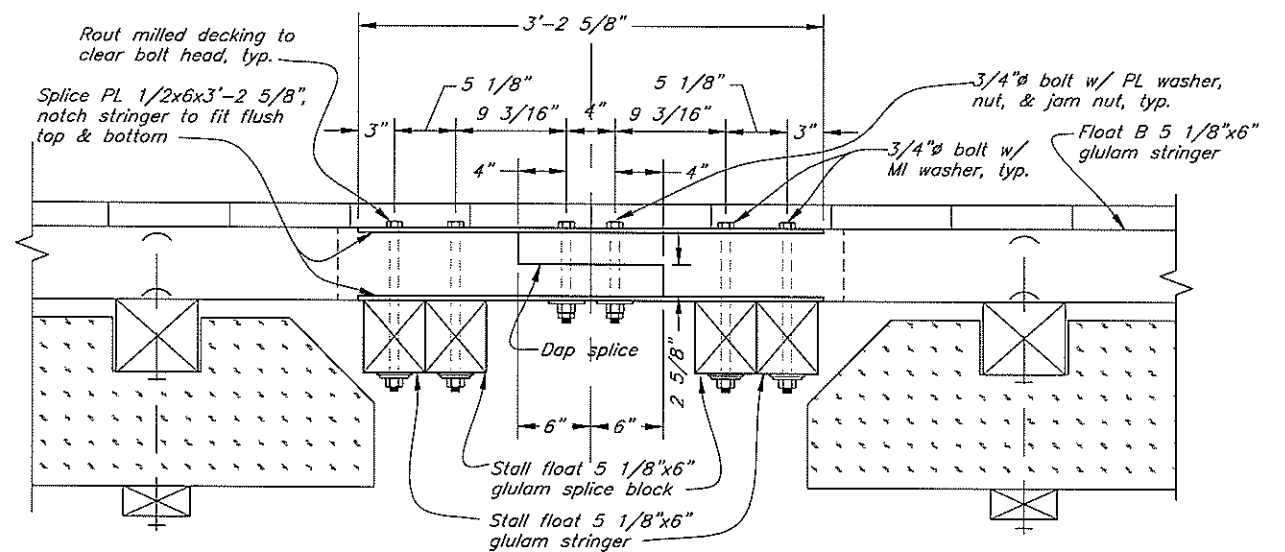
Typical West End Rail Corner Dap Splice



Section A
4, 8, 13



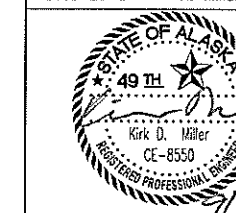
Splice "B" Plan



Splice "B" Elevation

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

DESIGNED BY: K. Miller



CHECKED BY: J. Beedle

DRAFTED BY: C. Fuman

PATH: Q:\Hnh\67792\MF\Planset-Harbor\18 Splices & west end.dwg

PLOT: PSPACE 1=1 Tab: Splices

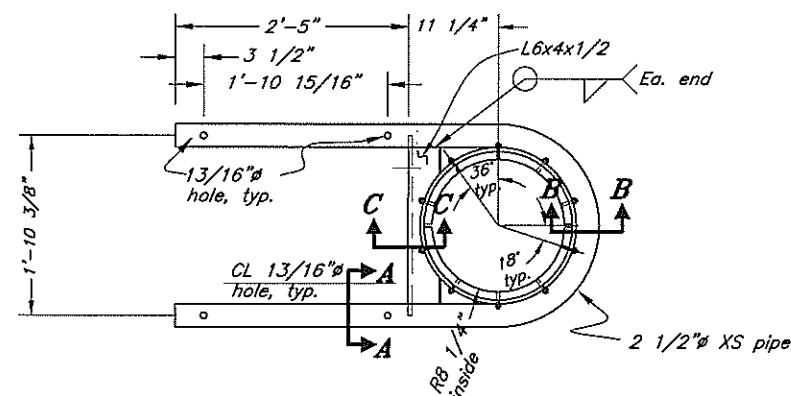
Fri, 08/Sep/06 02:05PM

CITY OF HOONAH

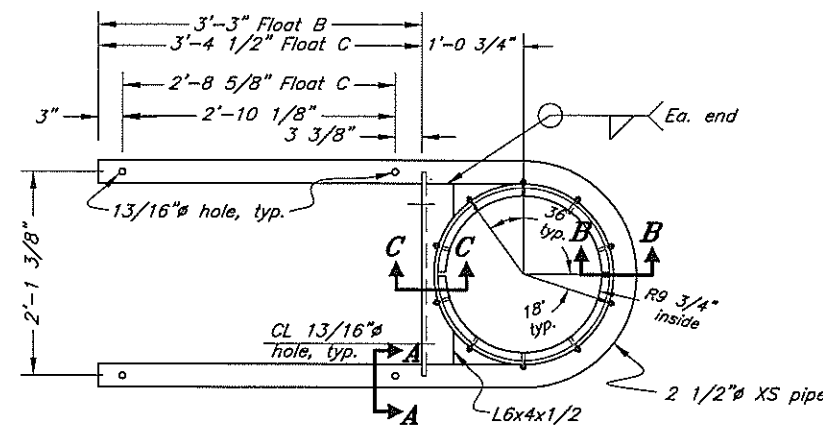
Hoonah Harbor Float Expansion

Float Splices & West End Details

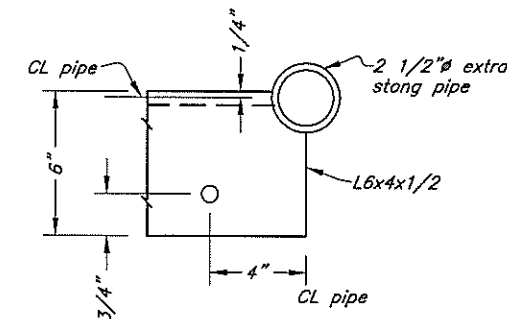
REVISIONS			PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
NO.	DATE	DESCRIPTION				
			67792	2006	18	28



12 3/4"ø Exterior Pile Collar (1)
Floats C and D Stall Floats (10), 15

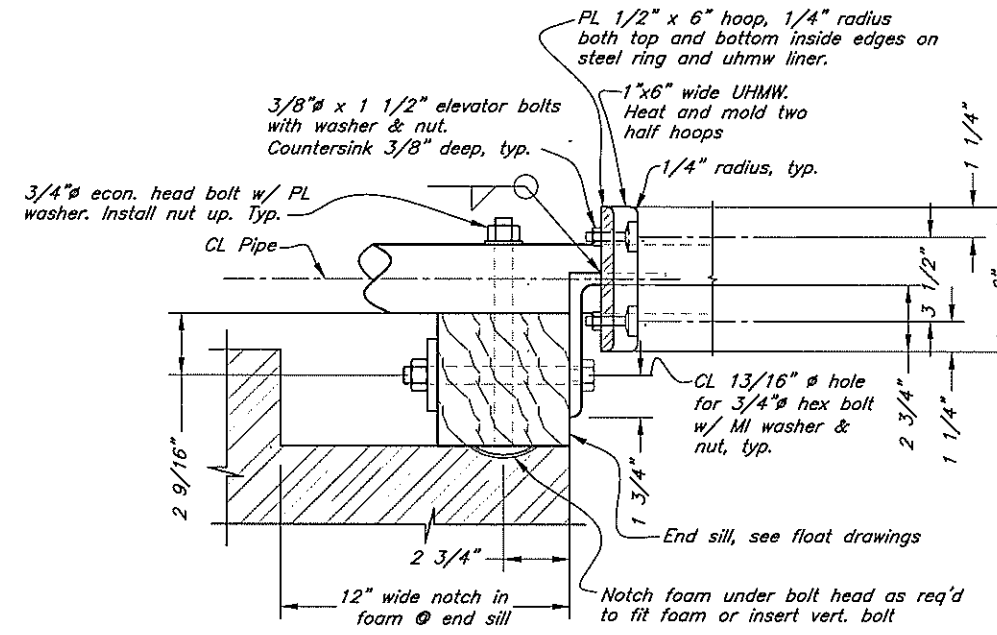


16"ø Exterior Pile Collar (2)
Main Floats B & C (4), 8

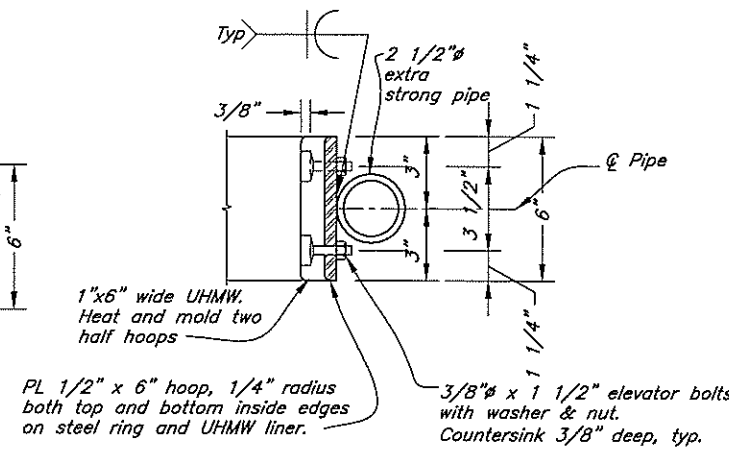


Section A-A

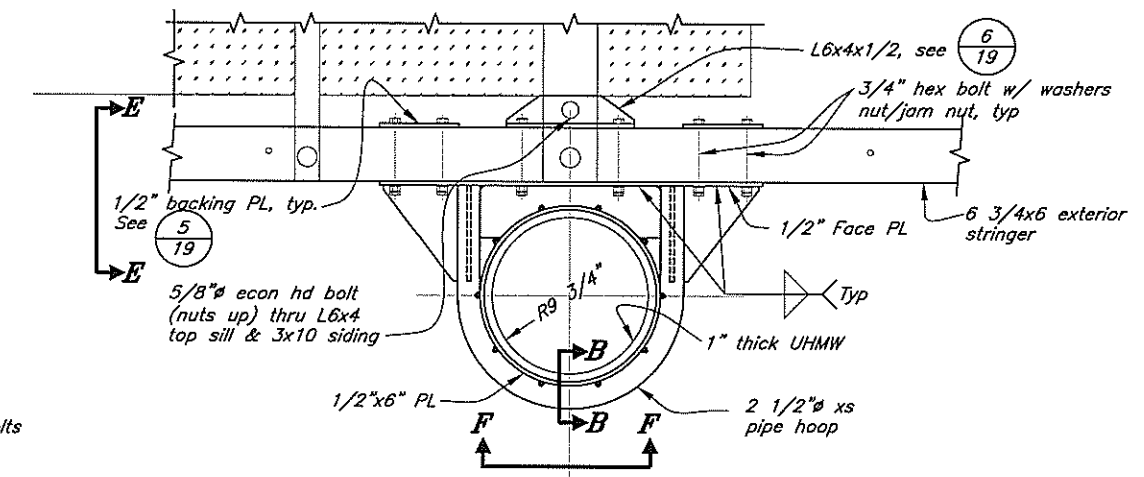
- PILE COLLAR NOTES:**
1. All welds on inside of steel ring shall be ground smooth.
 2. UHMW poly liners, as shown, with 10 bolts per circular half collar. UHMW poly liners shall be heated and then molded to the shape shown on the details.
 3. The poly liner securing bolts shall be countersunk as shown.
 4. Secure all pile collars to pile collar stringer w/ 3/4" hex head bolts w/ M1 washers, typ. unless otherwise noted.
 5. Match deck boards flush w/ edges of interior pile collars. Notch deck boards around collar angles when required.



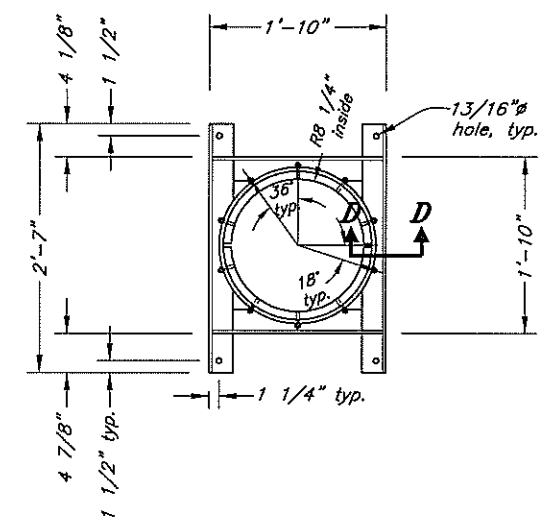
Section C-C



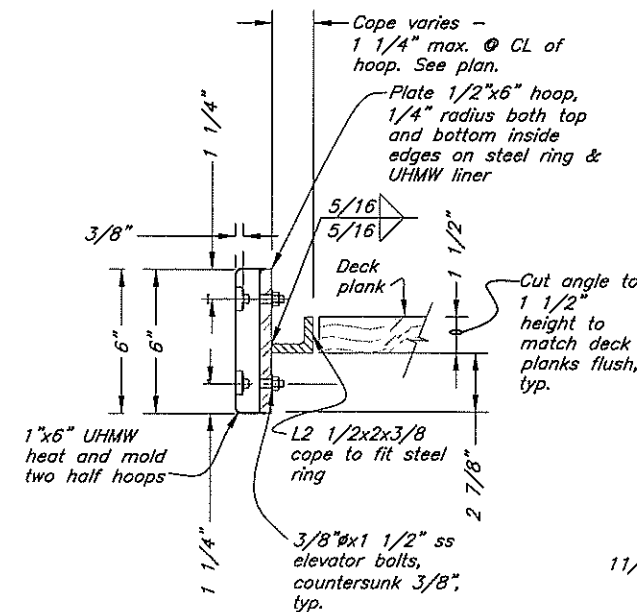
Section B-B



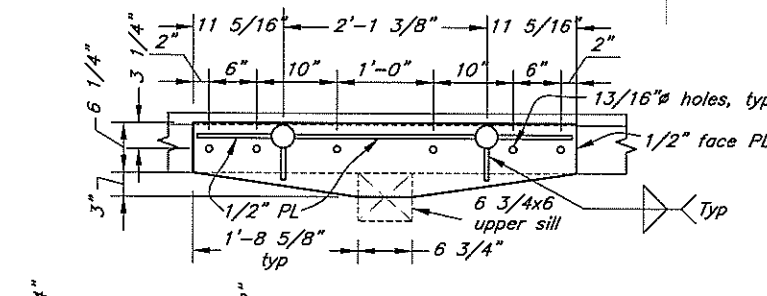
Typ Side Pile Collar (3)
(Floats B & C) (5), 9



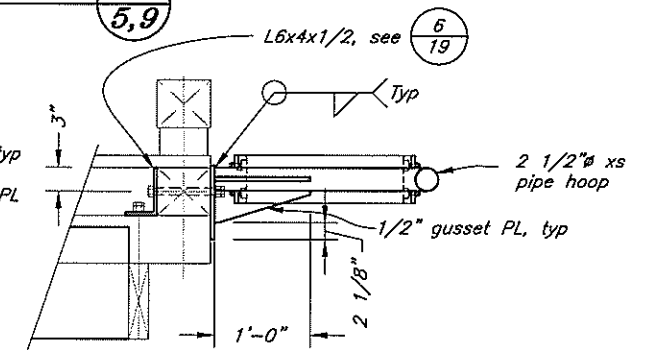
12 3/4"ø Interior Pile Collar (4)
Float D Stall Floats (15)



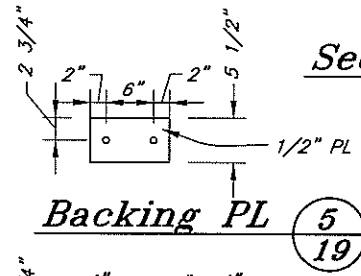
Section D-D



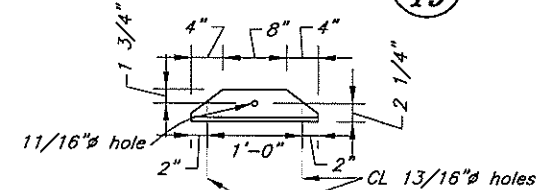
Section F-F



Section E-E



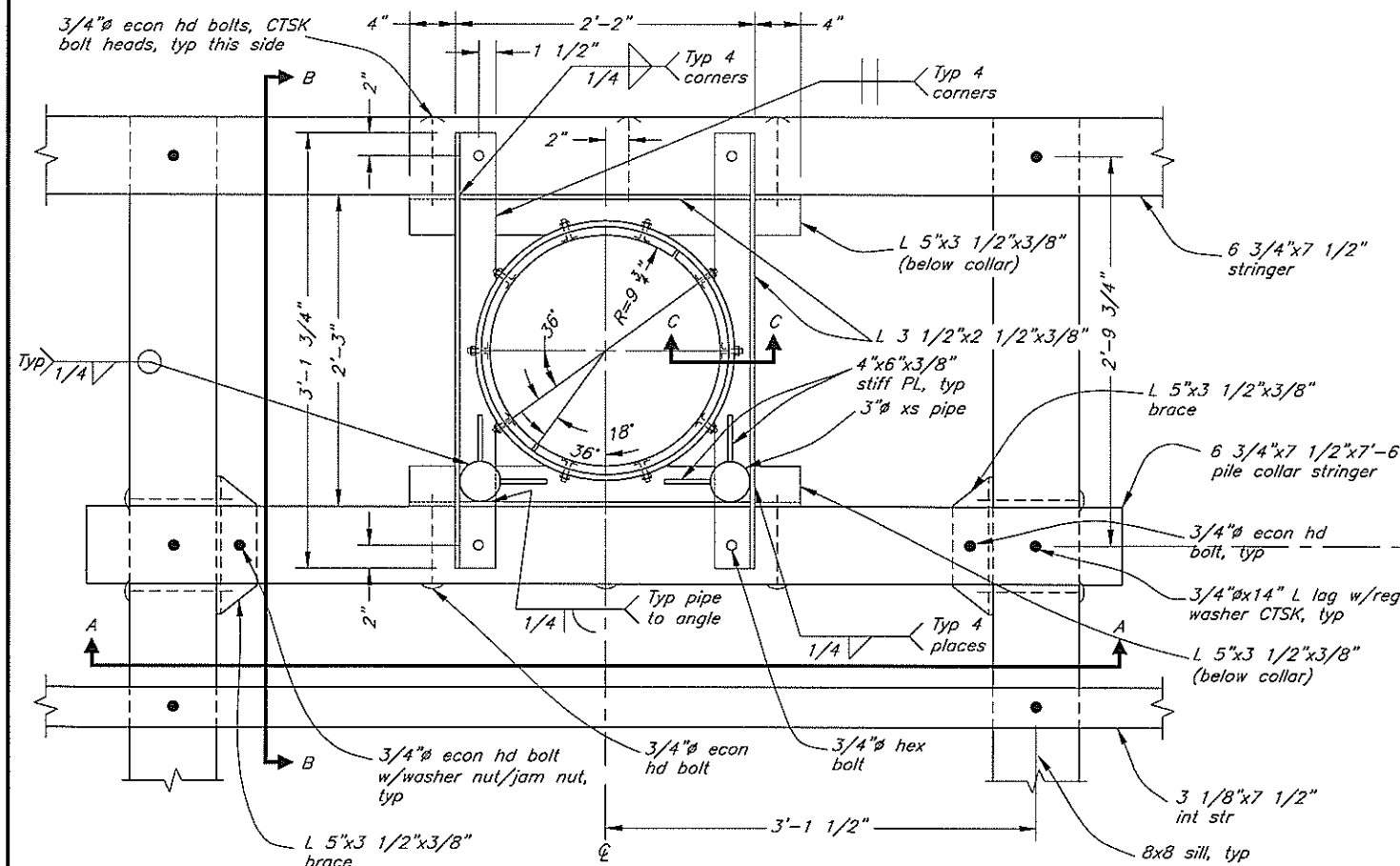
Backing PL (5)
(19)



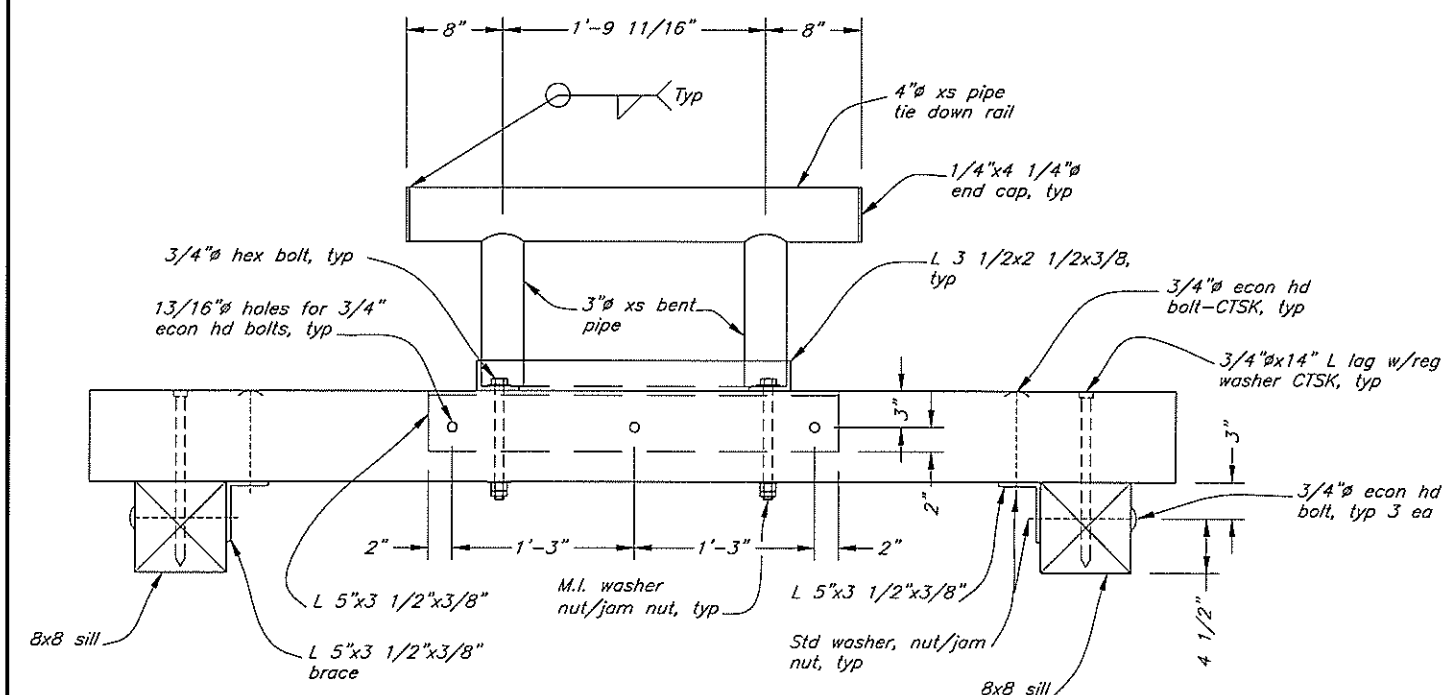
Angle Clip (6)
(19)

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

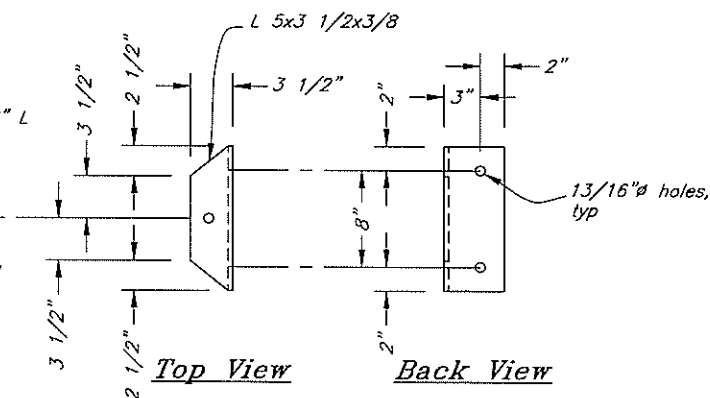
DESIGNED BY: K. Miller		CITY OF HOONAH	
		Hoonah Harbor Float Expansion	
CHECKED BY: J. Beedle		Pile Collars	
DRAFTED BY: Fuman			
PATH: Q:\Hnh\67792\MF\PlanSet-Harbor\19 Float B & C end pile collar.dwg		PROJECT DESIGNATION	
PLDT: PSPACE 1=1		YEAR	
		SHEET NO.	
		TOTAL SHEETS	
		67792	
		2006	
		19	
		28	



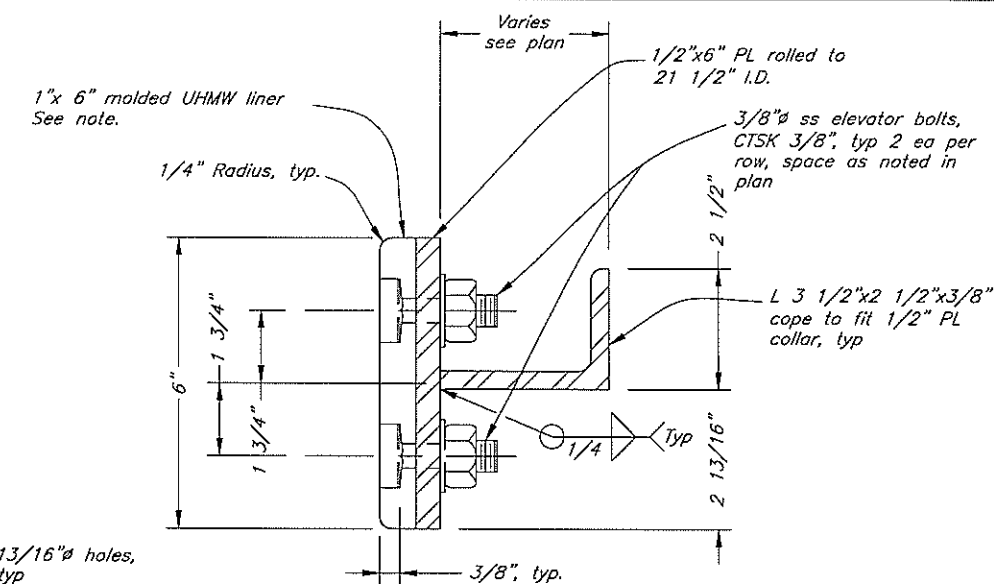
Pile Collar Plan 1
14



Section A-A



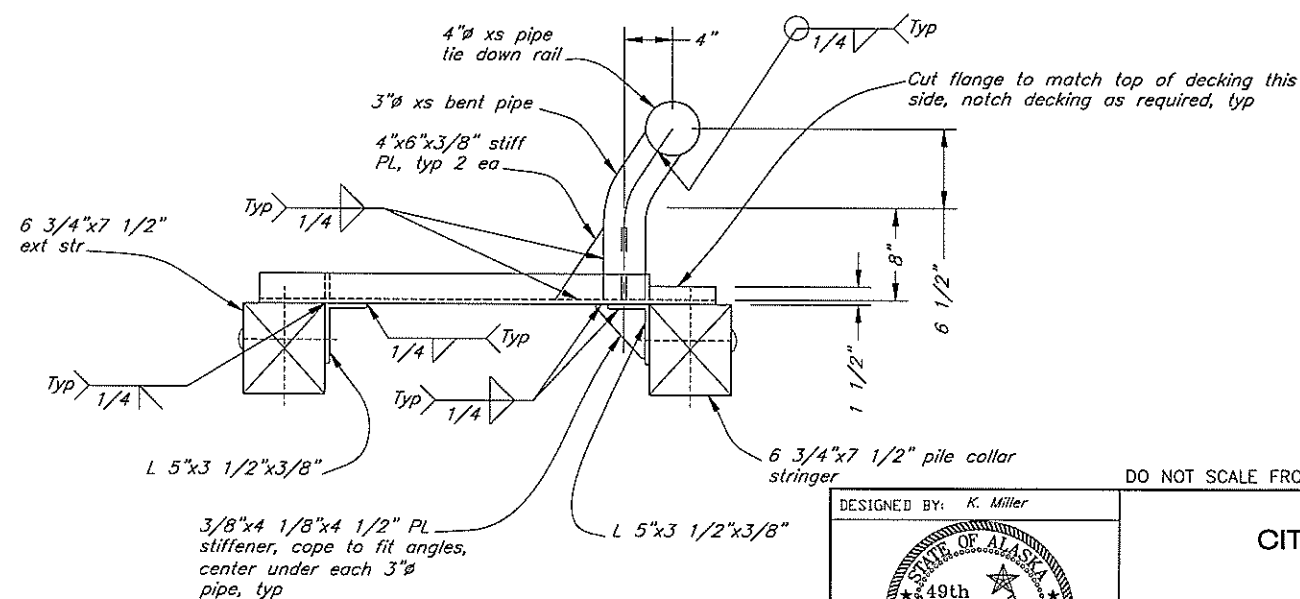
Angle Brace Detail



NOTE:

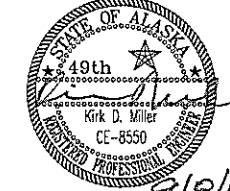
UHMW liners, as shown with 10 bolts per circular half collar spaced as noted. Mold UHMW liners to the diameter shown.

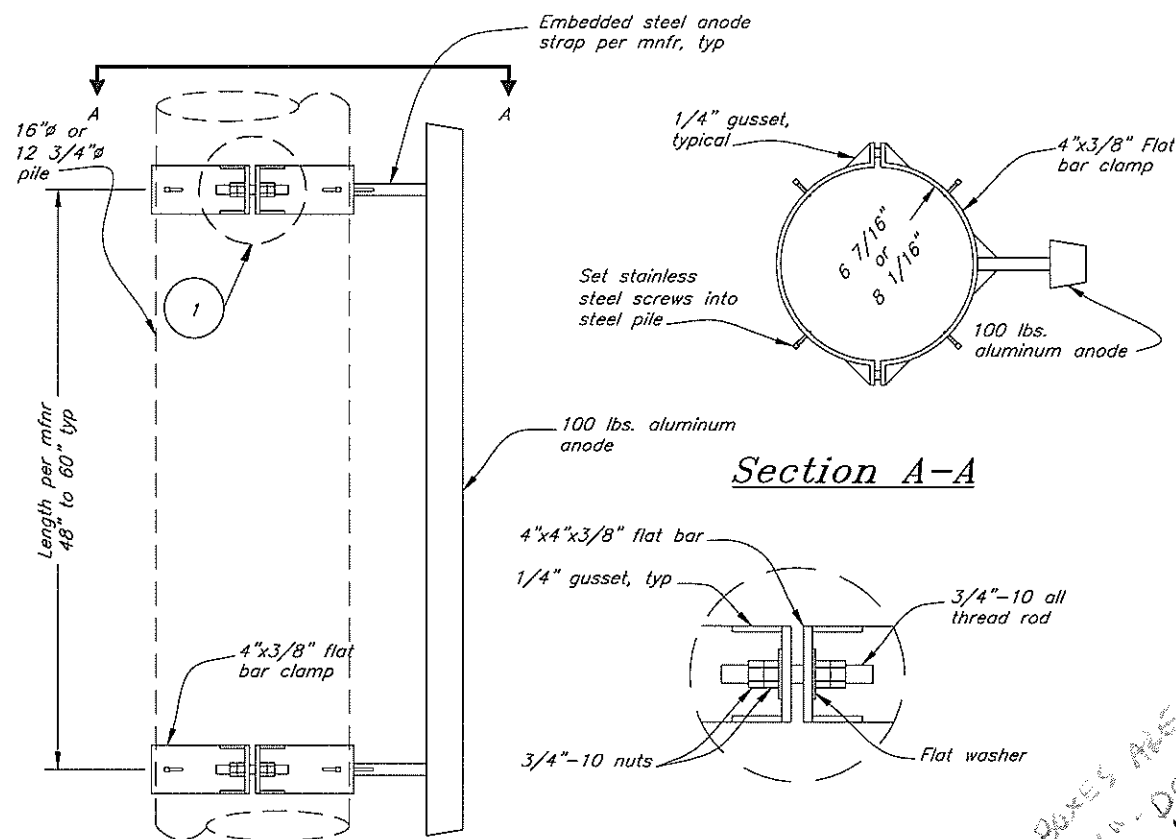
Section C-C



Section B-B

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

DESIGNED BY: K. Miller		CITY OF HOONAH			
		Hoonah Harbor Float Expansion			
		Float D (Main) Interior Pile Collars			
CHECKED BY: J. Beedie		PATH: O:\Hnh\67792\MF\PlanSet-Harbor\20 Float D Pile Collars.dwg			
DRAFTED BY: B. Bennett		PLOT: PSPACE 1=1 Tab: Sht 7 Wed, 23/Aug/06 11:48AM			
NO.	DATE	REVISIONS DESCRIPTION	PROJECT DESIGNATION	YEAR	SHEET NO.
			67792	2006	20
					TOTAL SHEETS
					28

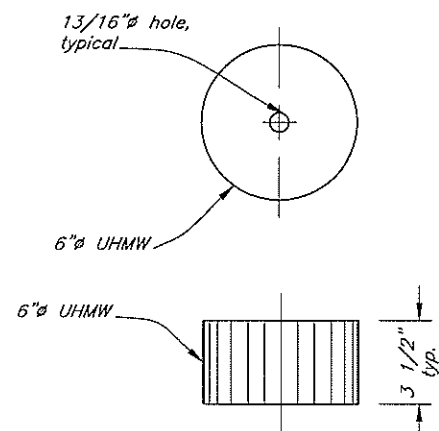


Elevation

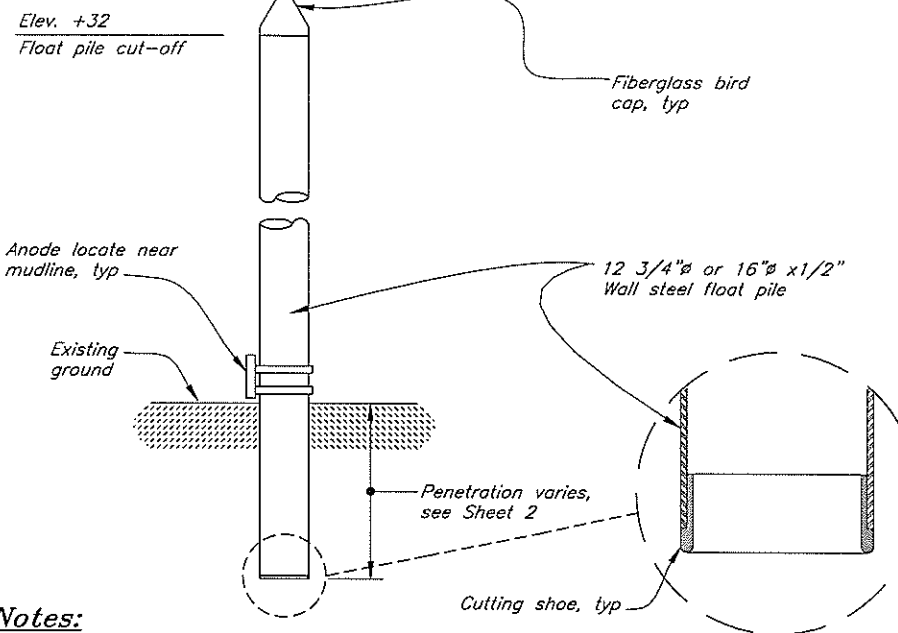
Clamp Connection

NOTE:
Anodes may be welded underwater to pile in lieu of using anode bracelet.

Anode Bracelet Detail



UHMW Scupper Block Detail



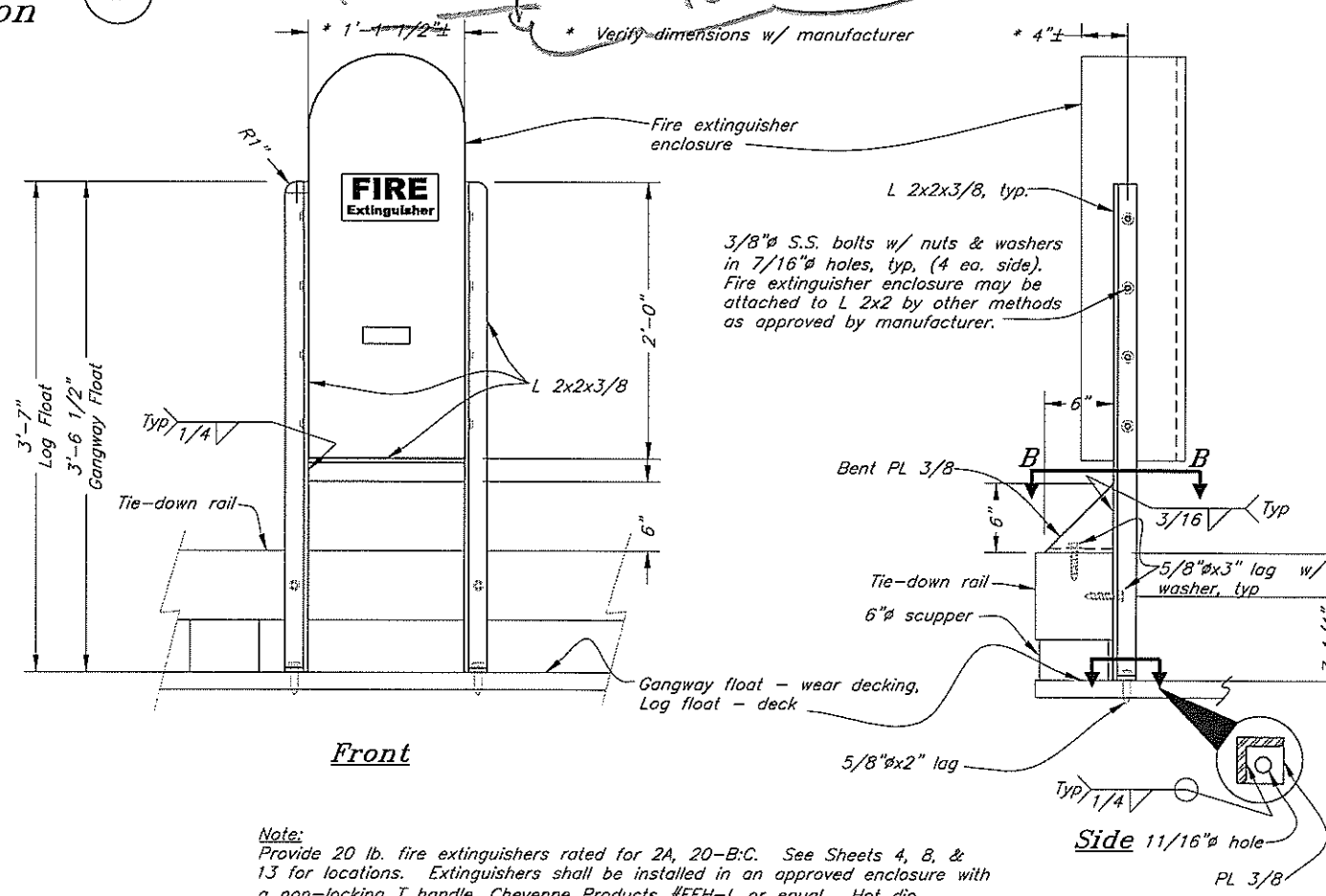
Pile Notes:

Drive all piles to estimated tip elevation unless otherwise approved by the Engineer. See pile table, Sheet 2 for estimated elevations and pile lengths.

Pile Details

BOXES ARE 15/8" - DO NOT FIT! 4/5/07

FIELD WIDENED TO ~ 1'-2"

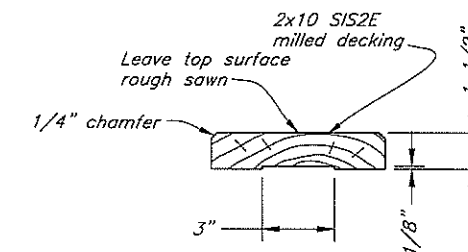


Front

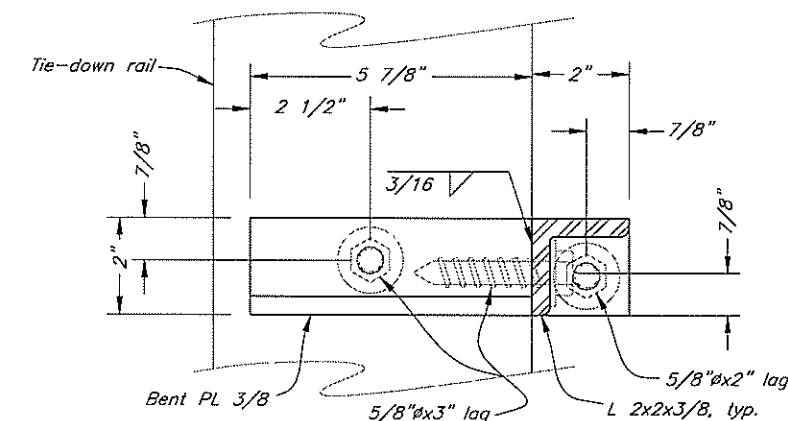
Side

Note:
Provide 20 lb. fire extinguishers rated for 2A, 20-B:C. See Sheets 4, 8, & 13 for locations. Extinguishers shall be installed in an approved enclosure with a non-locking T handle, Cheyenne Products #FEH-L or equal. Hot dip galvanize frame after fabrication.

Fire Extinguisher Enclosure



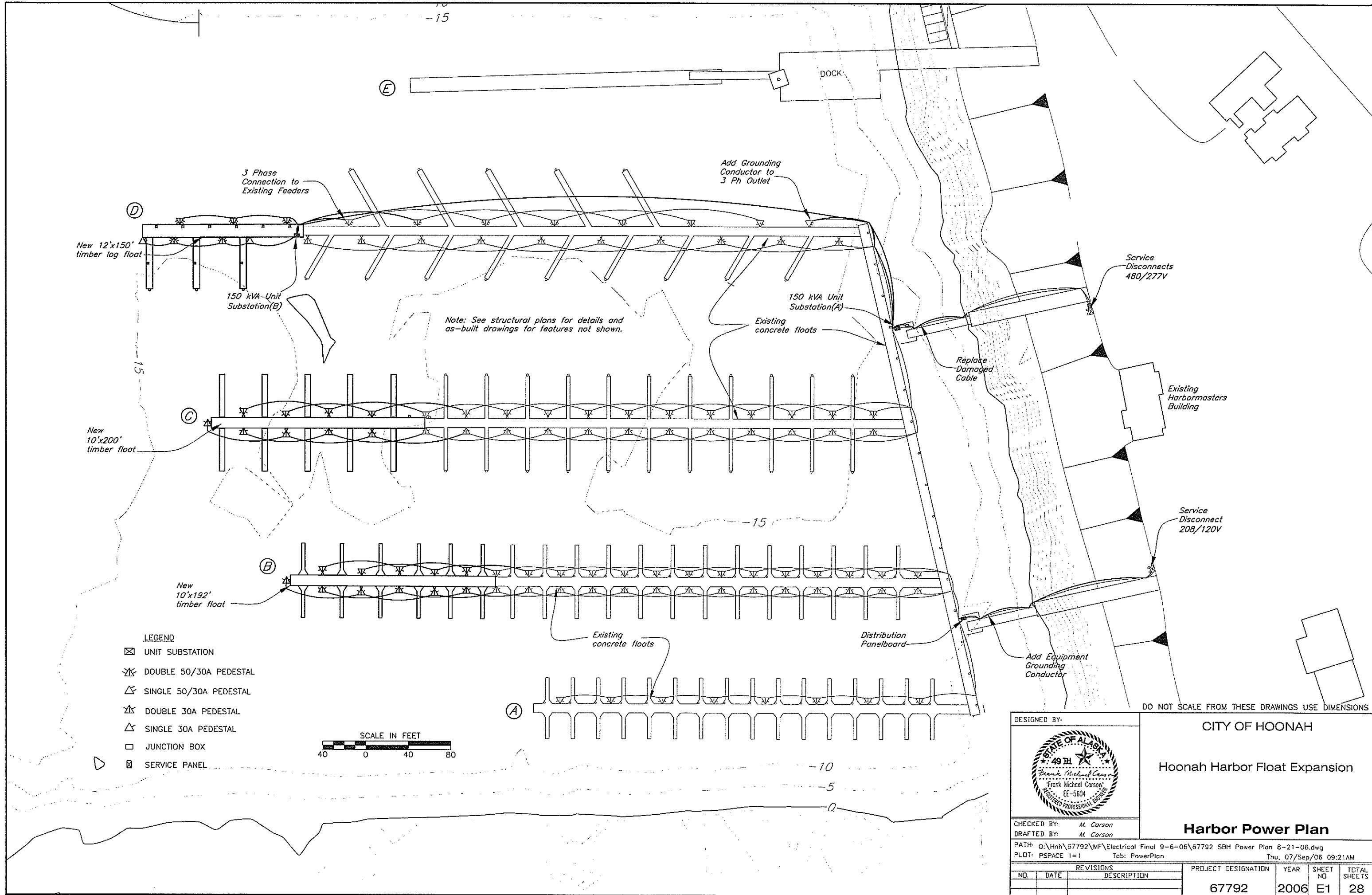
Milled Decking



Section B-B

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

DESIGNED BY: K. Miller		CITY OF HOONAH			
		Hoonah Harbor Float Expansion			
CHECKED BY: J. Beedle		Miscellaneous Details			
DRAFTED BY: B. Bennett/Fuman					
PATH: Q:\Hnh\67792\MF\PlanSet-Harbor\21 Misc.dwg					
PLOT: PSPACE 1=1 Tab: Misc		Fri, 08/Sep/06 02:08PM			
REVISIONS		PROJECT DESIGNATION		YEAR	TOTAL SHEETS
NO.	DATE	DESCRIPTION		SHEET NO.	
		67792		2006	28
				21	



- LEGEND
- UNIT SUBSTATION
 - DOUBLE 50/30A PEDESTAL
 - SINGLE 50/30A PEDESTAL
 - DOUBLE 30A PEDESTAL
 - SINGLE 30A PEDESTAL
 - JUNCTION BOX
 - SERVICE PANEL



DESIGNED BY: 

CITY OF HOONAH

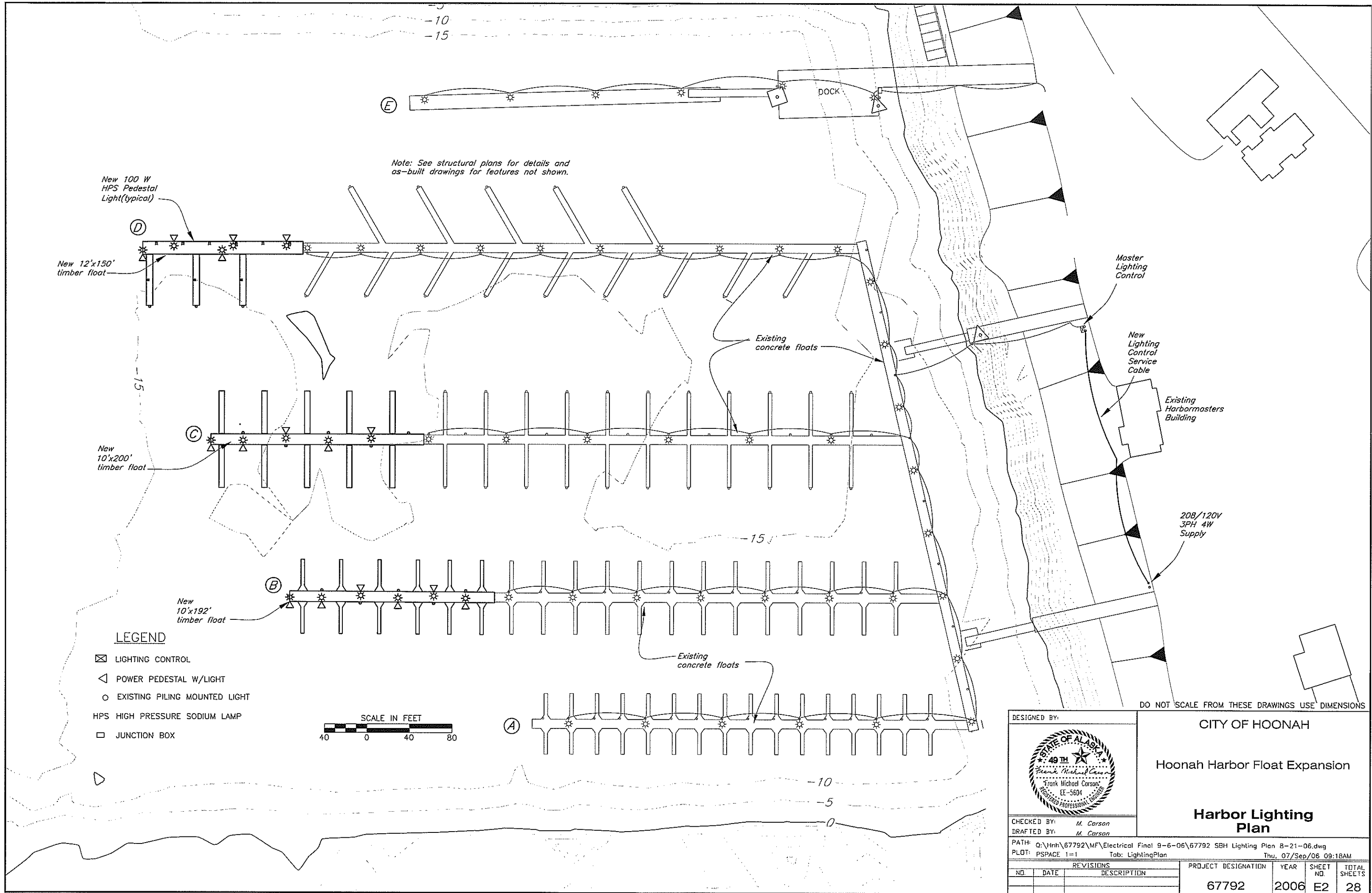
Hoonah Harbor Float Expansion

Harbor Power Plan

CHECKED BY: M. Carson
DRAFTED BY: M. Carson

PATH: Q:\Hnh\67792\MF\Electrical Final 9-6-06\67792 SBH Power Plan 8-21-06.dwg
PLOT: PSPACE 1=1 Tab: PowerPlan Thu, 07/Sep/06 09:21AM

REVISIONS			PROJECT DESIGNATION	YEAR	SHEET NO	TOTAL SHEETS
NO.	DATE	DESCRIPTION				
			67792	2006	E1	28

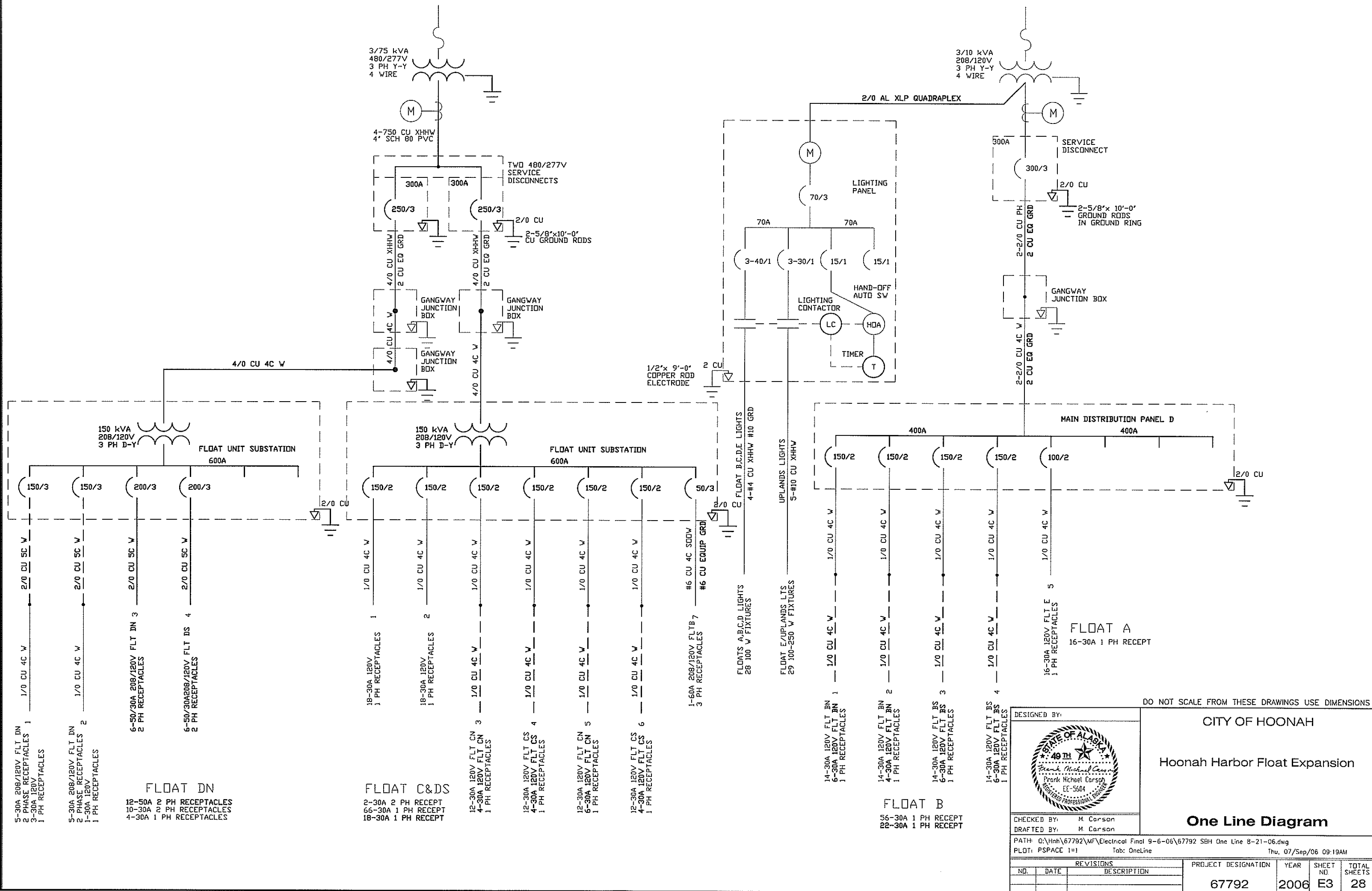


LEGEND

- ☒ LIGHTING CONTROL
- ◁ POWER PEDESTAL W/LIGHT
- EXISTING PILING MOUNTED LIGHT
- HPS HIGH PRESSURE SODIUM LAMP
- JUNCTION BOX



DESIGNED BY:		CITY OF HOONAH				
		Hoonah Harbor Float Expansion				
CHECKED BY: M. Carson		Harbor Lighting Plan				
DRAFTED BY: M. Carson						
PATH: Q:\Hnh\67792\MF\Electrical Final 9-6-06\67792 SBH Lighting Plan 8-21-06.dwg						
PLOT: PSPACE 1=1		Tab: LightingPlan				
THU, 07/SEP/06 09:18AM						
REVISIONS		PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS	
NO.	DATE	DESCRIPTION	67792	2006	E2	28



DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

DESIGNED BY:

CHECKED BY: H. Carson
DRAFTED BY: H. Carson

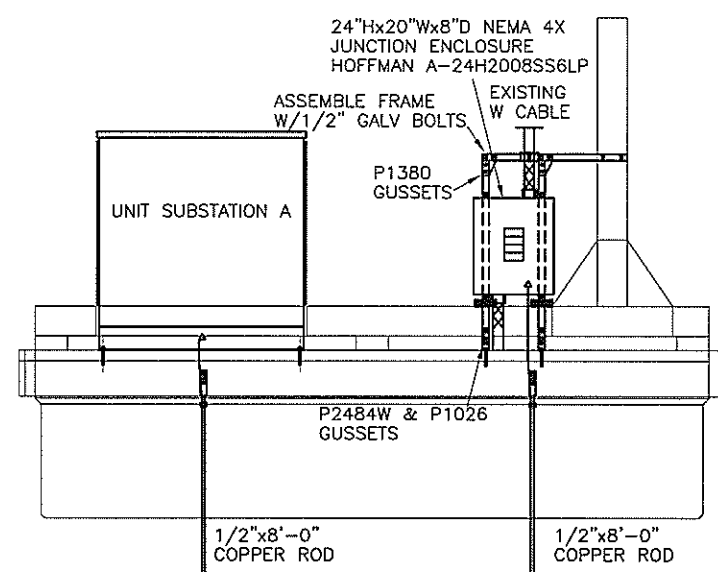
CITY OF HOONAH

Hoonah Harbor Float Expansion

One Line Diagram

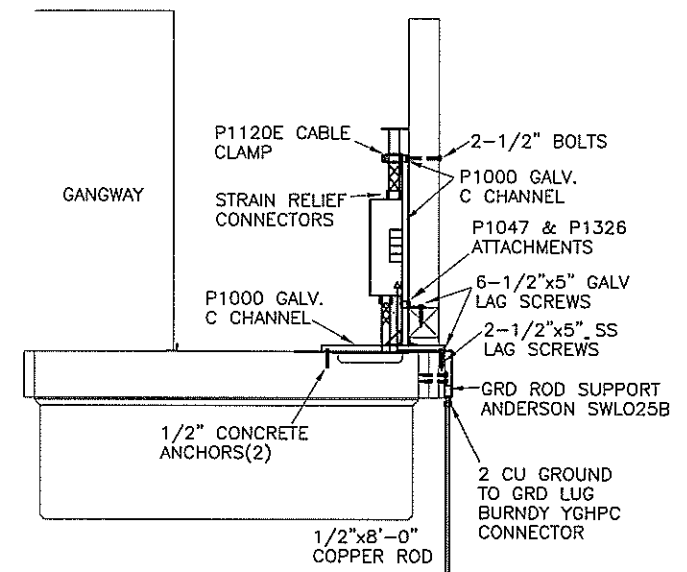
PATH: Q:\Hnh\67792\MF\Electrical Final 9-6-06\67792 SBH One Line 8-21-06.dwg
PLOT: PSPACE 1=1 Tab: OneLine Thu, 07/Sep/06 09:19AM

REVISIONS			PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
NO.	DATE	DESCRIPTION				
			67792	2006	E3	28



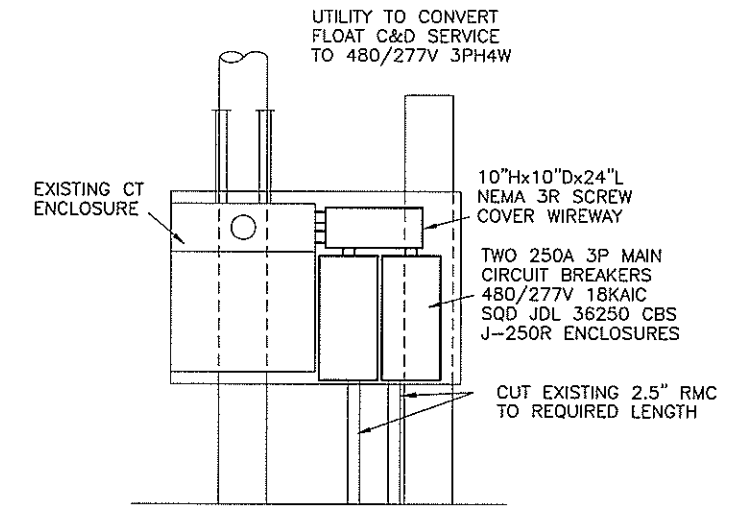
SUBSTATION AND ENCLOSURE(FRONT VIEW)

SCALE: 1/2" = 1'-0"



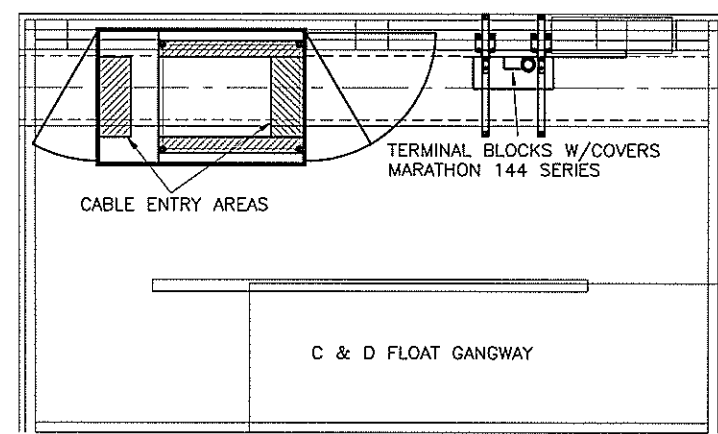
JUNCTION ENCLOSURE(END VIEW)

SCALE: 1/2" = 1'-0"



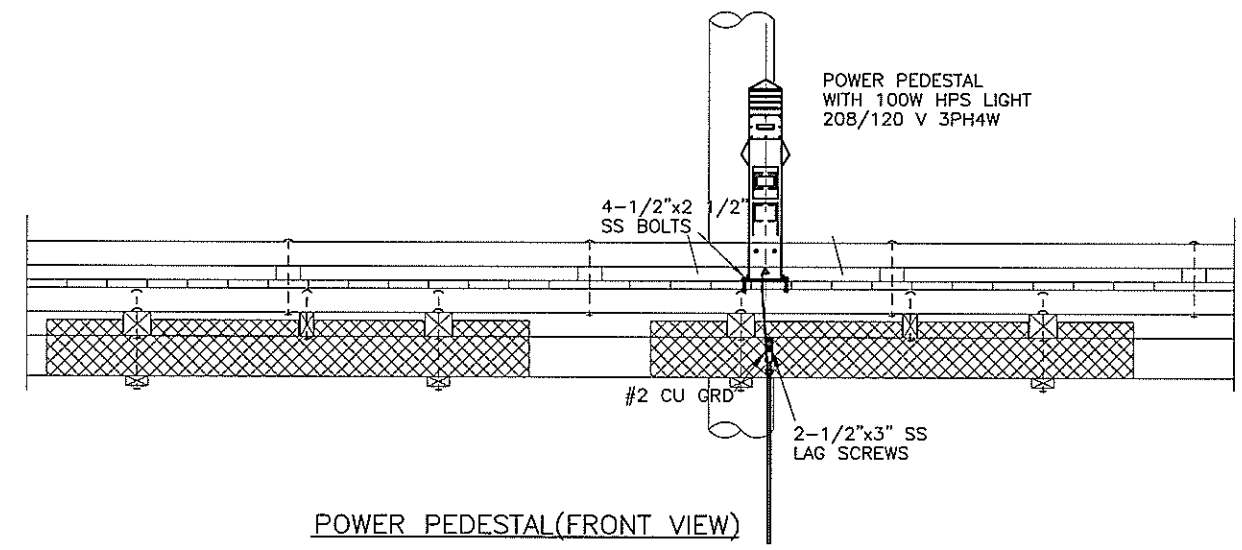
FLOAT C&D SERVICE EQUIPMENT

SCALE: 1/2" = 1'-0"



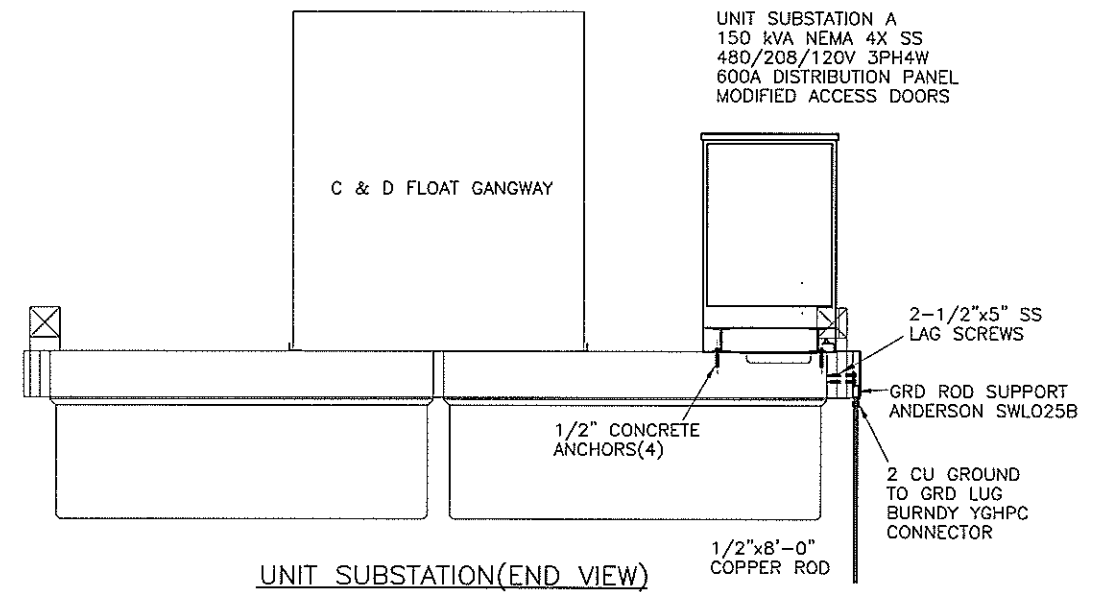
SUBSTATION AND ENCLOSURE(PLAN VIEW)

SCALE: 1/2" = 1'-0"



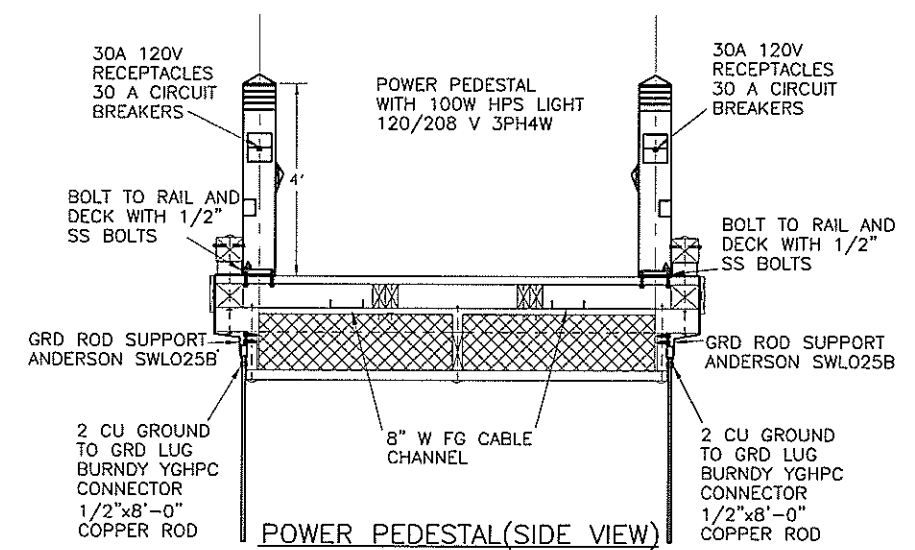
POWER PEDESTAL(FRONT VIEW)

SCALE: 1/2" = 1'-0"



UNIT SUBSTATION(END VIEW)

SCALE: 1/2" = 1'-0"



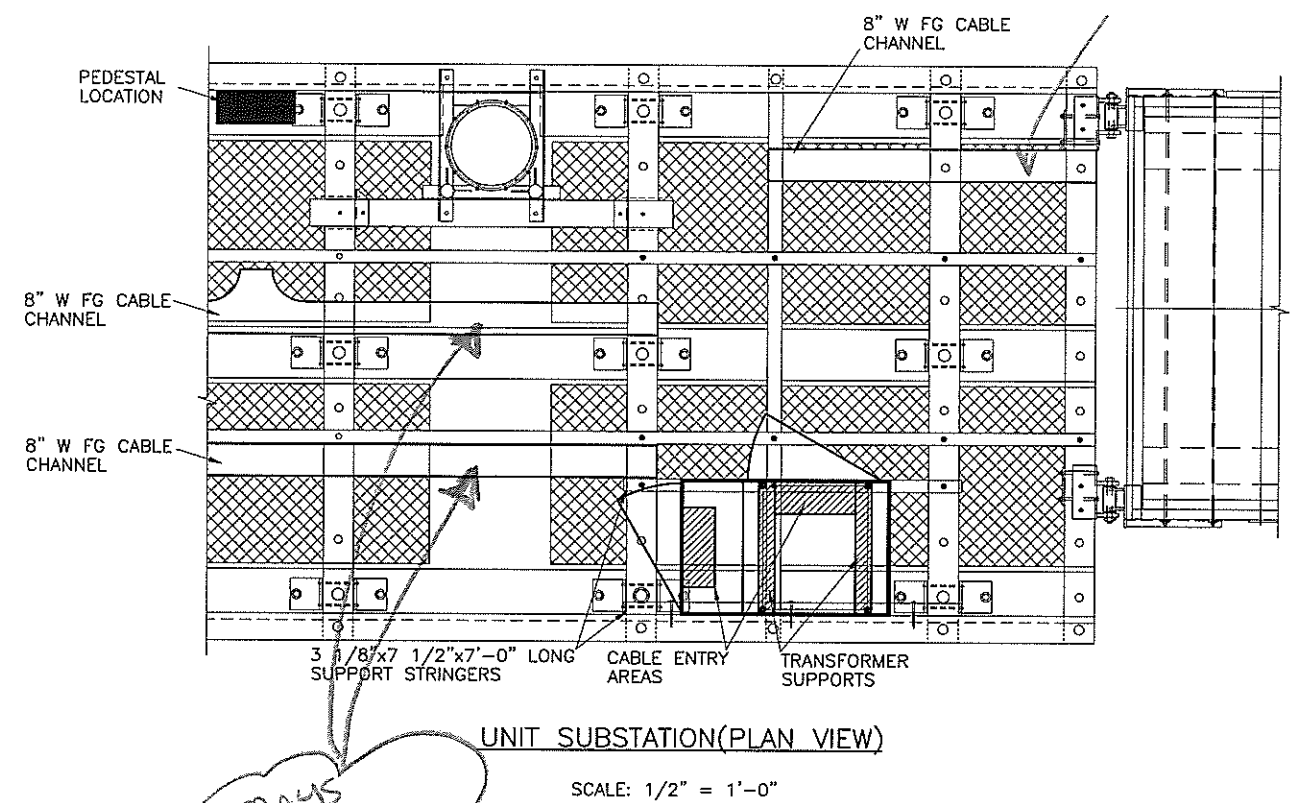
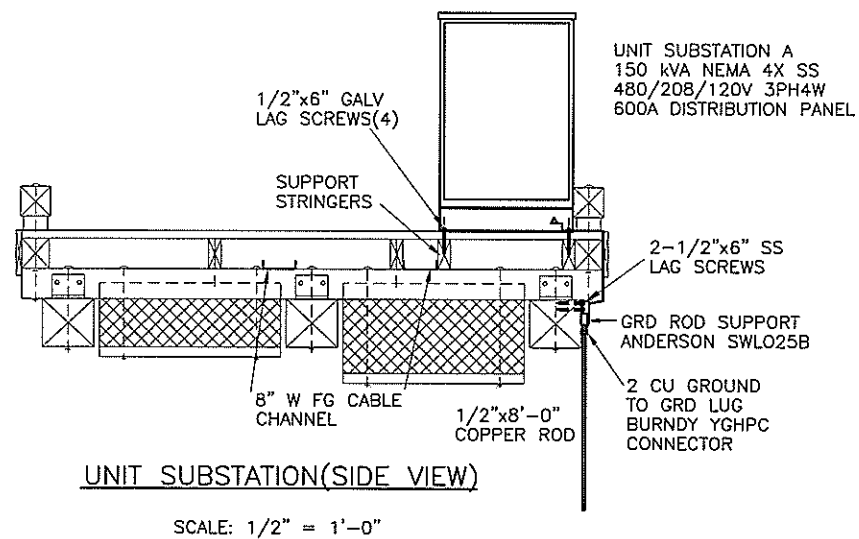
POWER PEDESTAL(SIDE VIEW)

SCALE: 1/2" = 1'-0"

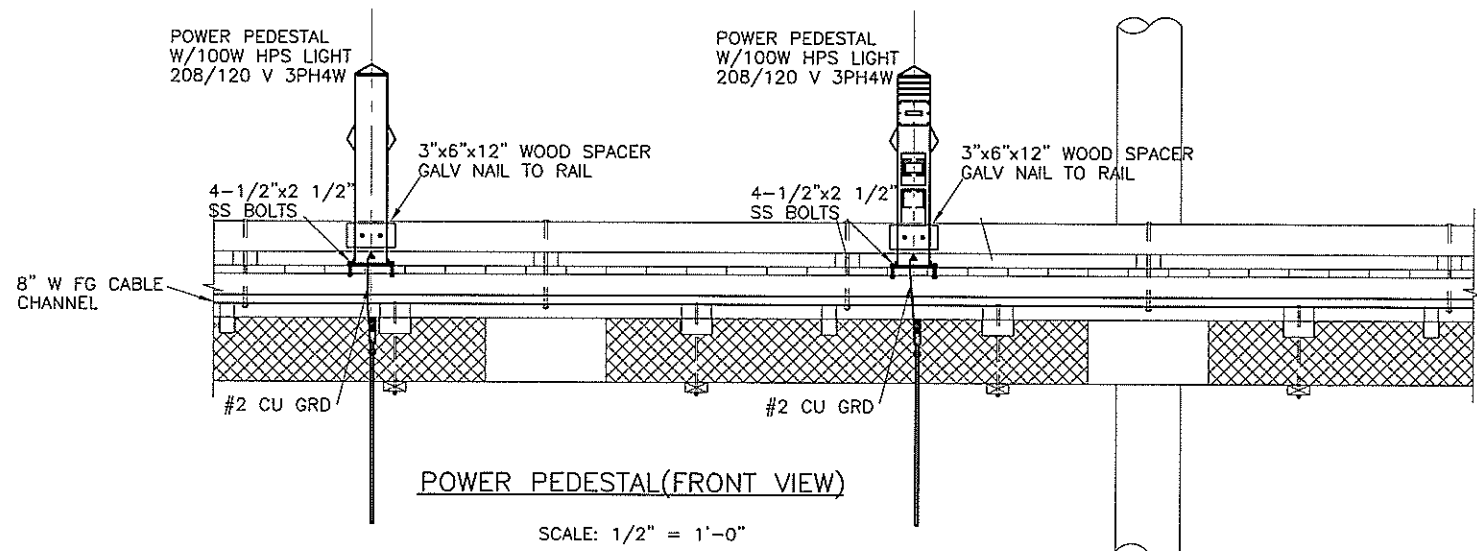
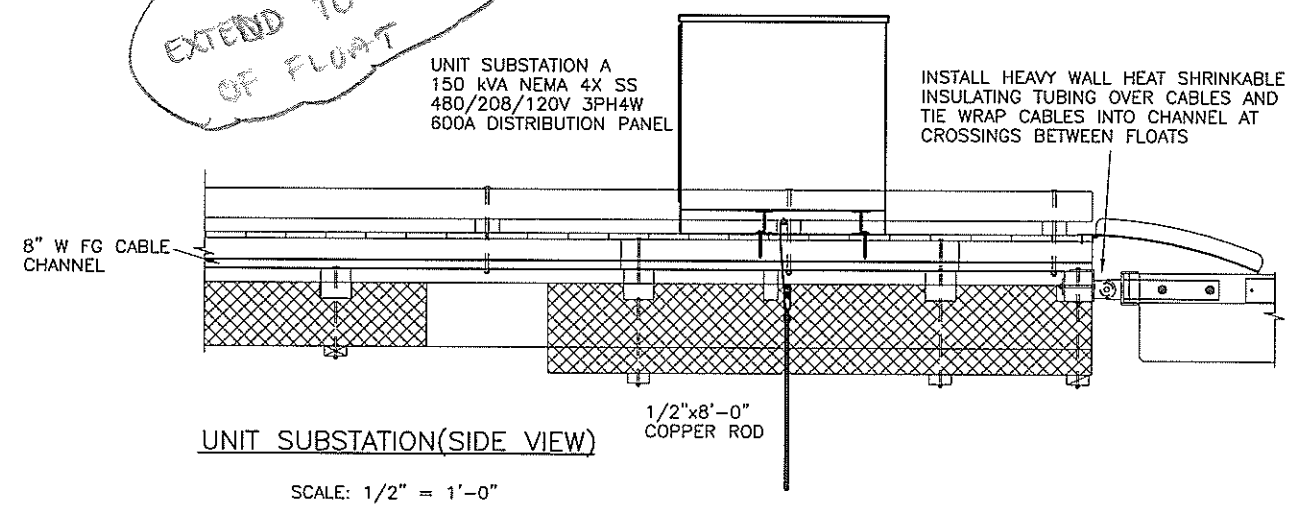
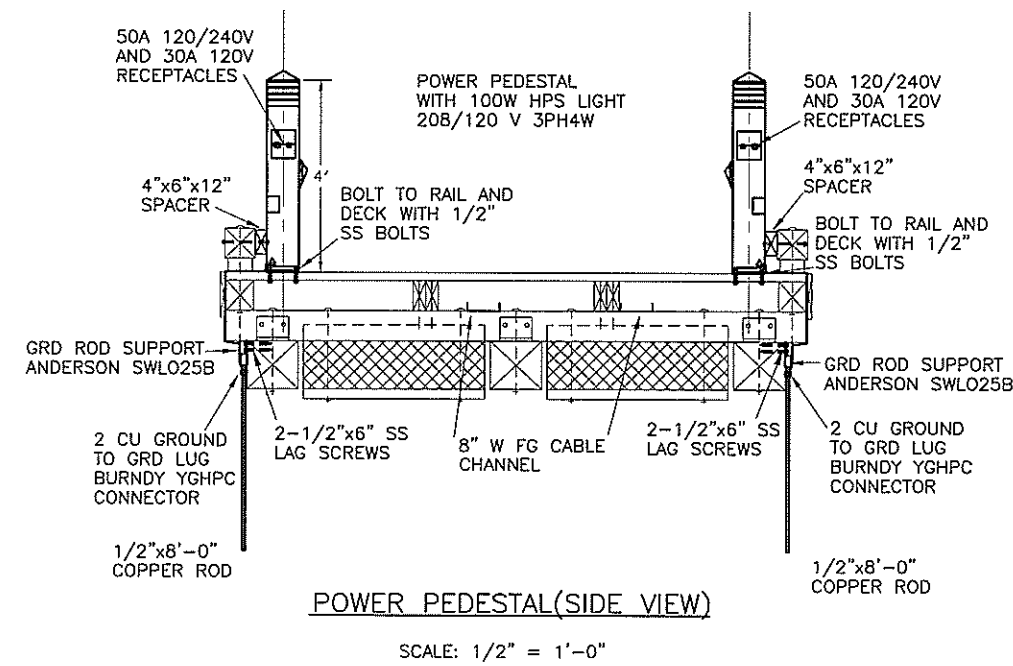
DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

DESIGNED BY:		CITY OF HOONAH			
		Hoonah Harbor Float Expansion			
CHECKED BY: M. Carson		C Float Electrical Details			
DRAFTED BY: M. Carson					
PATH: Q:\Hnh\67792\MF\Electrical Final 9-6-06\67792SBH-Cfloatdetails8-21-06.dwg					
PLOT: PSPACE 1=1		Tab: C Float Details			
		Thu, 07/Sep/06 09:24AM			
REVISIONS		PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
NO.	DATE	DESCRIPTION			
			67792	2006	E4 28

NOT CONSTRUCTED

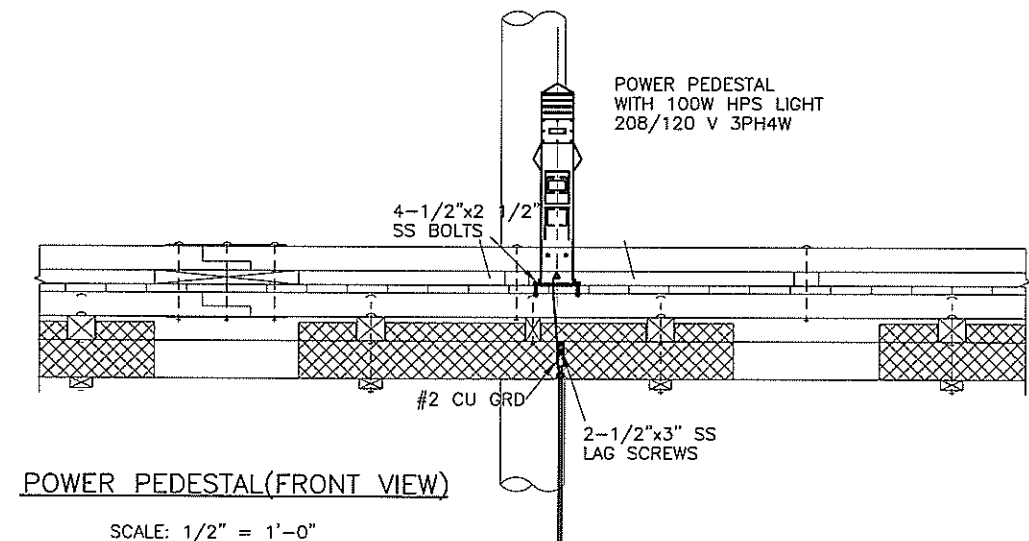
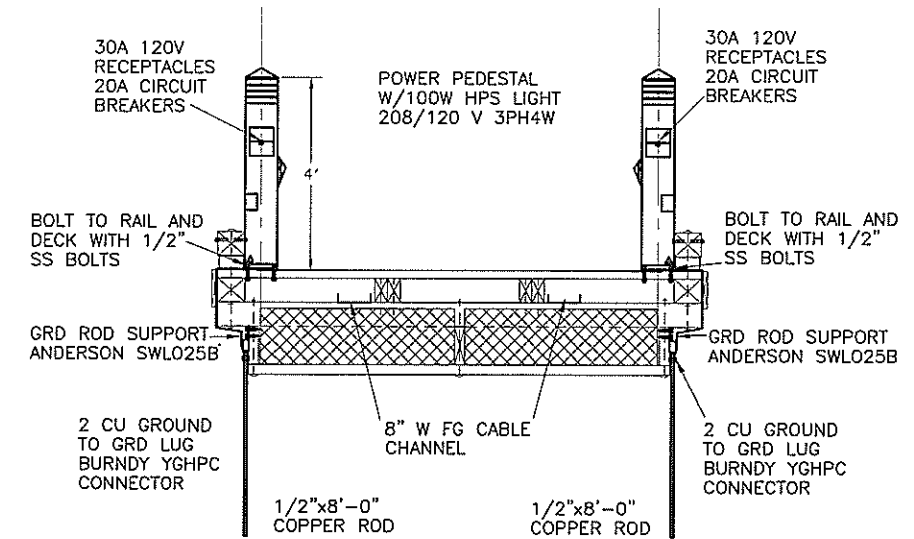
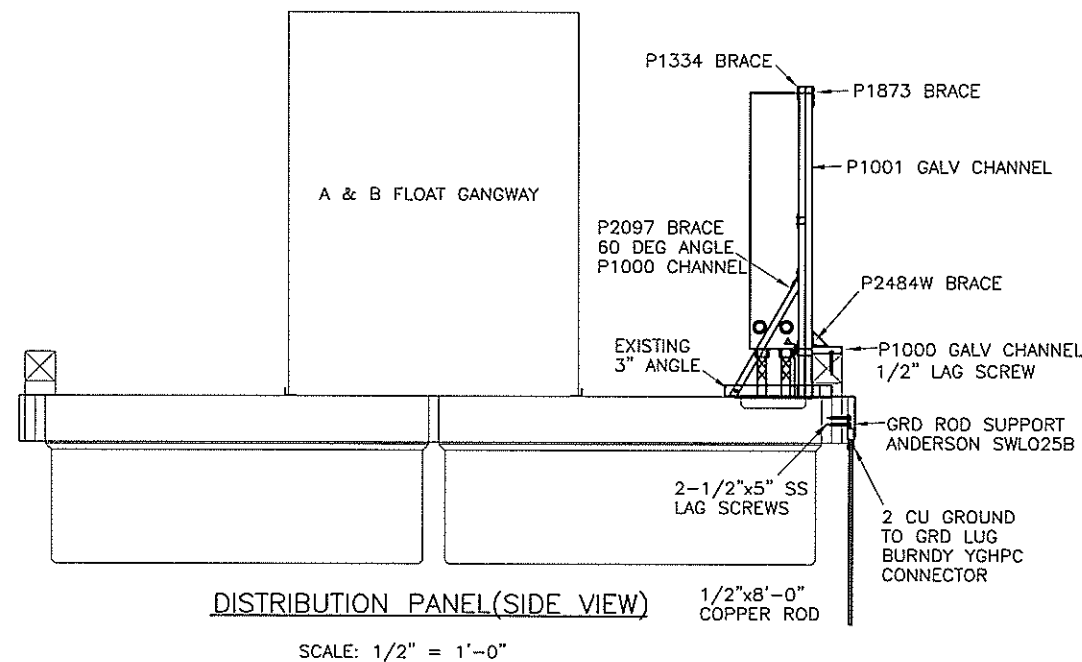
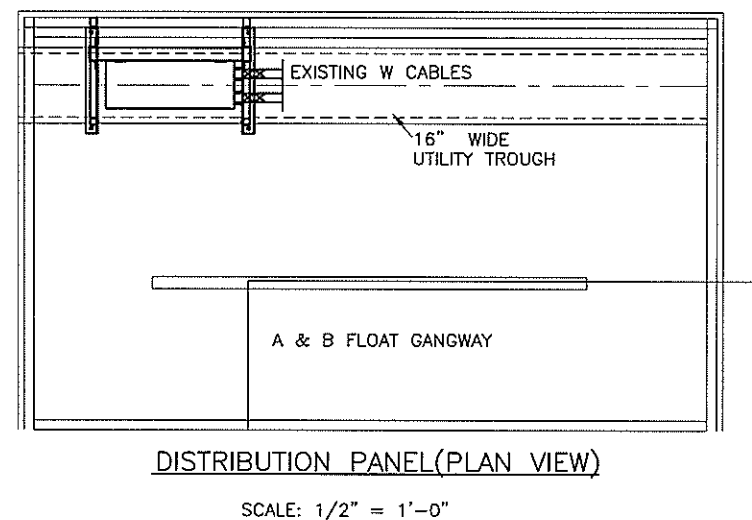
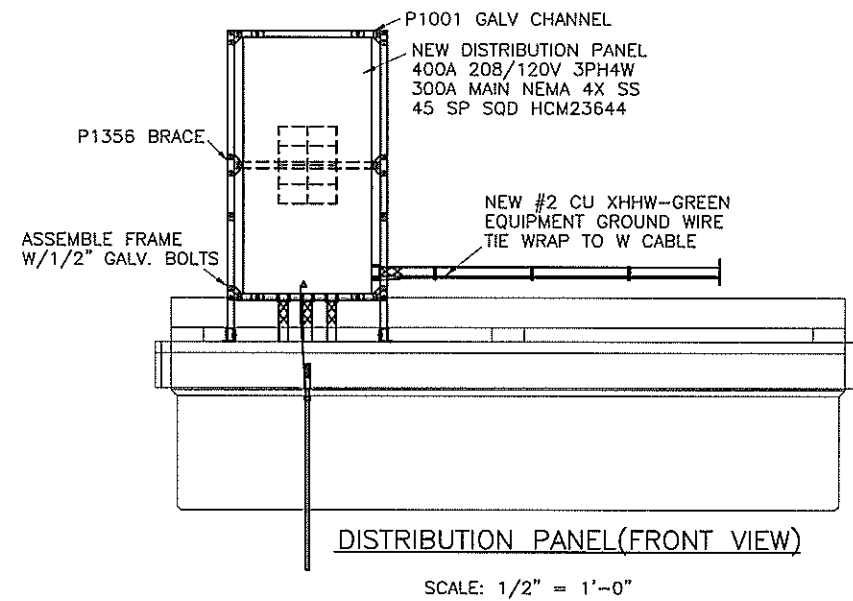


TRAYS
EXTEND TO END
OF FLOAT



DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

DESIGNED BY:		CITY OF HOONAH			
		Hoonah Harbor Float Expansion			
		D Float Electrical Details			
CHECKED BY: M. Carson		PROJECT DESIGNATION			
DRAFTED BY: M. Carson		YEAR			
PATH: Q:\Hnh\67792\MF\Electrical Final 9-6-06\677925BH-Dfloatdetails8-21-06.dwg		SHEET NO.			
PLOT: PSPACE 1=1 Tab: DfloatDetails Thu, 07/Sep/06 09:25AM		TOTAL SHEETS			
NO.		REVISIONS		67792	
DATE		DESCRIPTION		2006	
				E5	
				28	



DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

DESIGNED BY:		CITY OF HOONAH			
		Hoonah Harbor Float Expansion			
		B Float Electrical Details			
CHECKED BY:	M. Carson				
DRAFTED BY:	M. Carson				
PATH: Q:\Hnh\67792\MF\Electrical Final 9-6-06\67792SBH-Bfloatdetails8-21-06.dwg					
PLOT: PSPACE 1=1		Tab: BfloatDetails		Thu, 07/Sep/06 09:23AM	
REVISIONS		PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
NO	DATE	DESCRIPTION			
			67792	2006	E6 28

CITY OF HOONAH

CHANGE ORDER

Project No.: 67792

Change Order No. 1

Project Name: Hoonah City Float Replacement & Harbor Expansion

Contractor: Trucano Construction Company	Change Order Summary:
Address: 3560 North Douglas Highway Juneau, AK 99801	Calendar Days (+ / -): 0 or New Completion Date:
	Amount of this Change Order: \$25,725.77

Recommended By: Kirk Miller, PE
Title: Project Engineer

Date: 7/12/07

Approved By: Dennis H. May Jr. - Mayor City of Hoonah
Title:

Date: 7/31/07

Seal of an Alaskan Professional Engineer
if required.

Acknowledged by indicates receipt of the change order to perform the described work, but not the mutual agreement of the basis of payment and/or time allowance. If the matter cannot be resolved by agreement within 7 days from the date of your signature, you shall, within the next 14 days, submit an Intent to Claim in writing to the Engineer, pursuant to the specifications and contract documents.

Acknowledged By: Douglas Trucano Date: 8/1/07
Contractor's Representative

This change order constitutes agreement to terms, conditions and prices stated below.

Accepted By: Douglas Trucano Date: 8/1/07
Contractor's RepresentativePermission for previously approved subcontractor(s) to perform all or portions of the work described herein is as checked: ☐ Yes ☐ No ☐ N/A

The following change(s) in the above Contract are hereby made in accordance with the terms of the Contract and under the terms and conditions stated below. This document shall become an amendment to the Contract and all provisions of the Contract will be applicable.

DESCRIPTION OF CHANGE

Electrical Modifications - Extra Work at Agreed Lump Sum

This change order authorizes additional compensation at agreed upon lump amounts for the following items of work and in accordance with the attached documentation. Payment shall include all work including materials, labor, equipment and incidentals required to complete all work.

1. Replace CT Enclosure, meter socket and base for Harbor power & lighting. Total Cost = \$4,795.07
2. Add ground wire from uplands distribution panel to Float B circuit panel at Harbor. Furnish and install two new light poles and light fixtures on City Float timber trestle. Total Cost = \$2,854.95
3. Replace electrical cabinet between B and C floats at Harbor. Total Cost = \$18,075.75

Total cost of all work (Items 1-3) under this Change Order = \$25,725.77

CITY OF HOONAH

CHANGE ORDER

Project No.: 67792

Change Order No. 2

Project Name: Hoonah City Float Replacement & Harbor Expansion

Contractor: Trucano Construction Company	Change Order Summary:
Address: 3560 North Douglas Highway Juneau, AK 99801	Calendar Days (+ / -): 0 or New Completion Date:
	Amount of this Change Order: \$45,292.59

Recommended By: Kirk Miller, PE
Title: Project Engineer

Date: 7/13/07

Approved By: Dennis H. May Jr. - Mayor City of Hoonah
Title:

Date: 7/31/07

Seal of an Alaskan Professional Engineer
if required.

Acknowledged by indicates receipt of the change order to perform the described work, but not the mutual agreement of the basis of payment and/or time allowance. If the matter cannot be resolved by agreement within 7 days from the date of your signature, you shall, within the next 14 days, submit an Intent to Claim in writing to the Engineer, pursuant to the specifications and contract documents.

Acknowledged By: Douglas Trucano Date: 8/1/07
Contractor's Representative

This change order constitutes agreement to terms, conditions and prices stated below.

Accepted By: Douglas Trucano Date: 8/1/07
Contractor's RepresentativePermission for previously approved subcontractor(s) to perform all or portions of the work described herein is as checked: ☐ Yes ☐ No ☐ N/A

The following change(s) in the above Contract are hereby made in accordance with the terms of the Contract and under the terms and conditions stated below. This document shall become an amendment to the Contract and all provisions of the Contract will be applicable.

DESCRIPTION OF CHANGE

Float and Structure Modifications - Extra Work at Agreed Lump Sum

This change order authorizes additional compensation at agreed upon lump amounts for the following items of authorized work and as outlined in the attached documentation. Payment shall include all materials, labor, equipment and incidentals required to complete all work.

1. Furnish, and install additional pile length at the City Float gangway support trestle. Total Cost = \$22,015.00
2. Repair of existing gangway landing float at Harbor between C and D floats. Total Cost = \$23,277.59

Total cost of all work (Items 1-2) under this Change Order = \$45,292.59

CITY OF HOONAH

CHANGE ORDER

Project No.: 67792

Change Order No.3

Project Name: Hoonah City Float Replacement & Harbor Expansion

Contractor: Trucano Construction Company	Change Order Summary:
Address: 3560 North Douglas Highway	Calendar Days (+ / -): 0
Juneau, AK 99801	or New Completion Date:
	Amount of this Change Order: \$62,835

Recommended By: Kirk Miller, PE

Title: Project Engineer

Date: 11/2/07

Approved By:

Title:

Date:

Seal of an Alaskan Professional Engineer if required.

Acknowledged by indicates receipt of the change order to perform the described work, but not the mutual agreement of the basis of payment and/or time allowance. If the matter cannot be resolved by agreement within 7 days from the date of your signature, you shall, within the next 14 days, submit an Intent to Claim in writing to the Engineer, pursuant to the specifications and contract documents.	
Acknowledged By: Contractor's Representative	
Date:	
This change order constitutes agreement to terms, conditions and prices stated below.	
Accepted By: Contractor's Representative	
Date:	

Permission for previously approved subcontractor(s) to perform all or portions of the work described herein is as checked: ☐ Yes ☐ No ☐ N/A

The following change(s) in the above Contract are hereby made in accordance with the terms of the Contract and under the terms and conditions stated below. This document shall become an amendment to the Contract and all provisions of the Contract will be applicable.

DESCRIPTION OF CHANGE

Float and Structure Modifications – Extra Work at Agreed Lump Sum

This change order authorizes additional compensation at agreed upon lump amounts for the following items of authorized work that has been completed as outlined in the attached documentation. Payment shall include all materials, labor, equipment and incidentals required to complete all work.

1. Repair existing gangway float between Floats A & B in Harbor. Total Cost = \$25,565.00

2. Cut handrail at bottom of vehicle gangway at City Float Facility. Total Cost = \$425.00

3. Pull piling and redrive to straighten new timber float at Float C in Harbor. Total Cost = \$4,610.00

4. Remove outer boat grid adjacent to approach trestle at City Float Facility. Total Cost = \$6,985.00

5. Re-attach existing aluminum cover plates over electrical trench at north gangway float. Total Cost = \$885.00

6. Perform timber trestle repairs at City Float Facility (new pile, pile encasement & cross bracing).

Total Cost = \$24,365.00

Total cost of all work (Items 1-6) under this Change Order = \$62,835.00