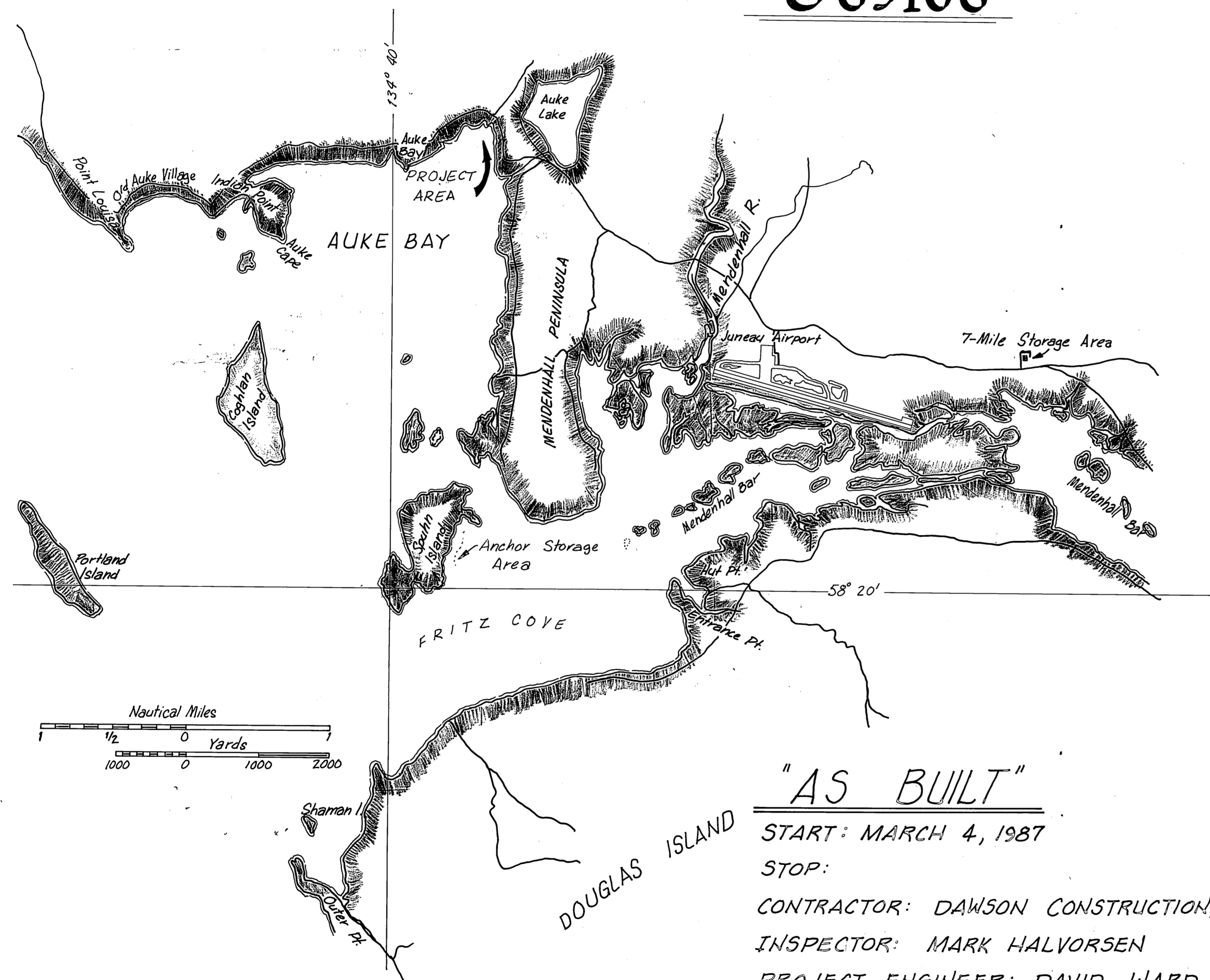


AUKE BAY TRANSIENT FACILITY

REBID

PROJECT NO'S. 67664 & 69016

& 69106



NOAA 17315

VICINITY MAP

"AS BUILT"

START: MARCH 4, 1987

STOP:

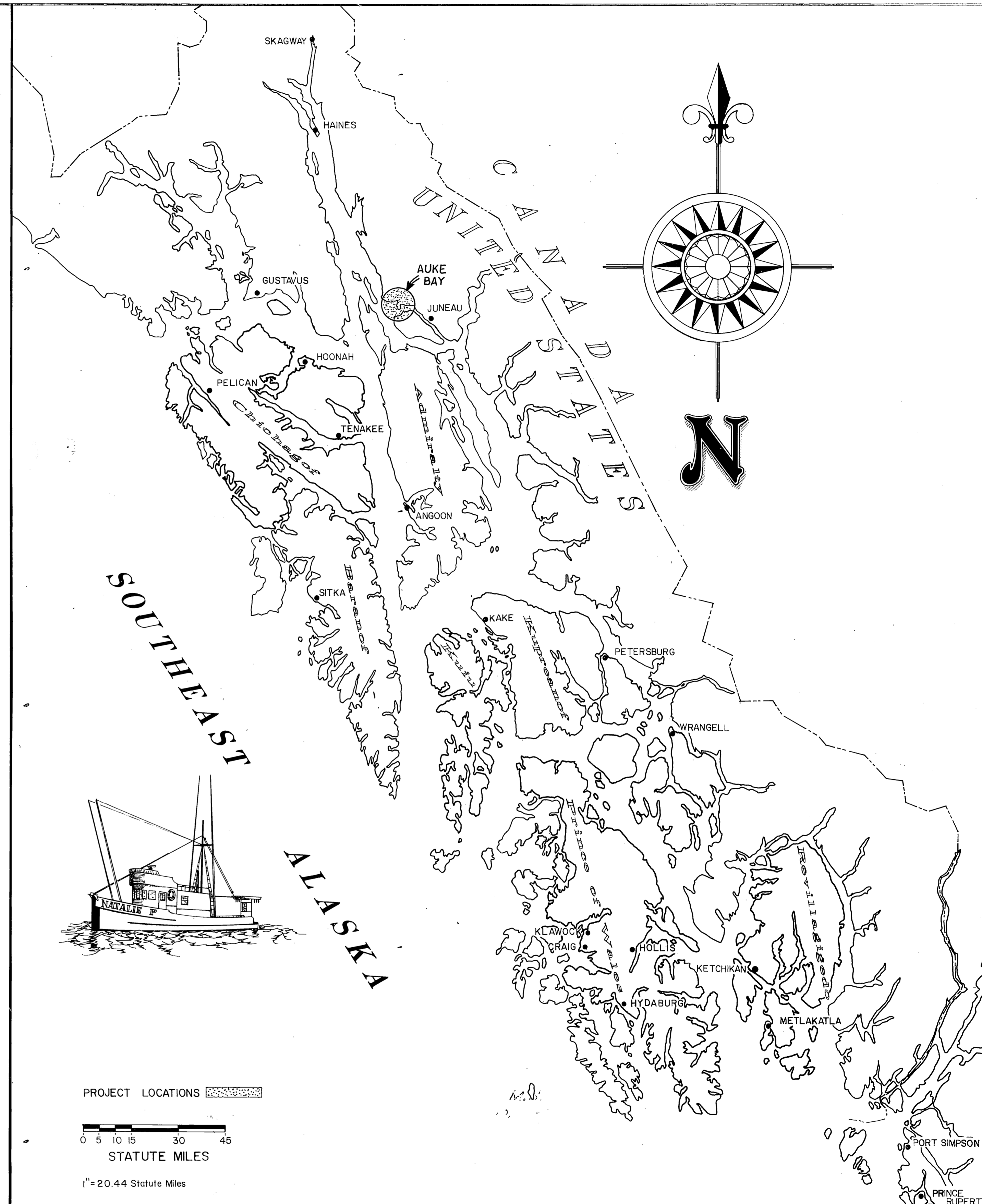
CONTRACTOR: DAWSON CONSTRUCTION, Co.

INSPECTOR: MARK HALVORSEN

PROJECT ENGINEER: DAVID WARD

DATE: OCTOBER 2, 1987

M.H.
10/2/87



PROJECT LOCATIONS

0 5 10 15 30 45
STATUTE MILES

1" = 20.44 Statute Miles

INDEX TO SHEETS

1/2 TITLE SHEET; PROJECT LAYOUT	19	TYP. 8"x16' POST TENSIONED FLOAT UNIT	35/30	UTILITY R2 LAYOUT & DETAILS; GARBAGE CONT.
3/4 FLOAT LAYOUT; EXISTING FACILITIES	20/21	INTERMEDIATE TENSIONING UNIT & MISC. DET.	37	NAVIGATION AID PLATFORM
5/6 PROFILE AT GANGWAY; CONCRETE APPROACH	22/23	SEWAGE PUMPOUT UNIT & MISC. DETAILS	38/35	ELECTRICAL DETAILS
1/8 GANGWAY DETAILS	24	UTILITIES FLOAT	40/39	MECHANICAL DETAILS
9/10 GANGWAY FLOAT; 14' WIDE FLOAT	25/26	ANCHOR WELLS & CHAIN SUPPORT; ANCHOR DET.		
11/12 FLOAT UNIT ASSEMBLY SEQUENCE	27/28	FLOAT CONN. DETAILS; BREAKWATER CONN.		
13/14 UNITS 1 & 3; UNITS 2, 2A, 4 & 4A	29/30	COVERPLATE DETAILS		
15/16 UNITS 5 & 5A; UNIT 6 & SPECIAL END UNIT	31/32	20' x 24" OVAL PILE COLLAR; BEARING PADS & FLOOR		
17/18 8"x12' FLOAT UNIT; 8'x8' FLOAT UNIT	33/34	T.D.R. & FENDERS; PUMP & UTILITIES BLDGS.		

PROJECT & FILE NO.

AUKE BAY TRANSIENT FACILITY REBID
PROJECT NOS. 67664, 69016 & 69106

STATE OF ALASKA

DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
S.E. REGION DESIGN & CONSTRUCTION

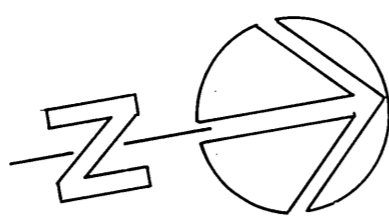
APPROVED

R. Dickmeyer 11/4/86
Director S.E. D.&C. Date

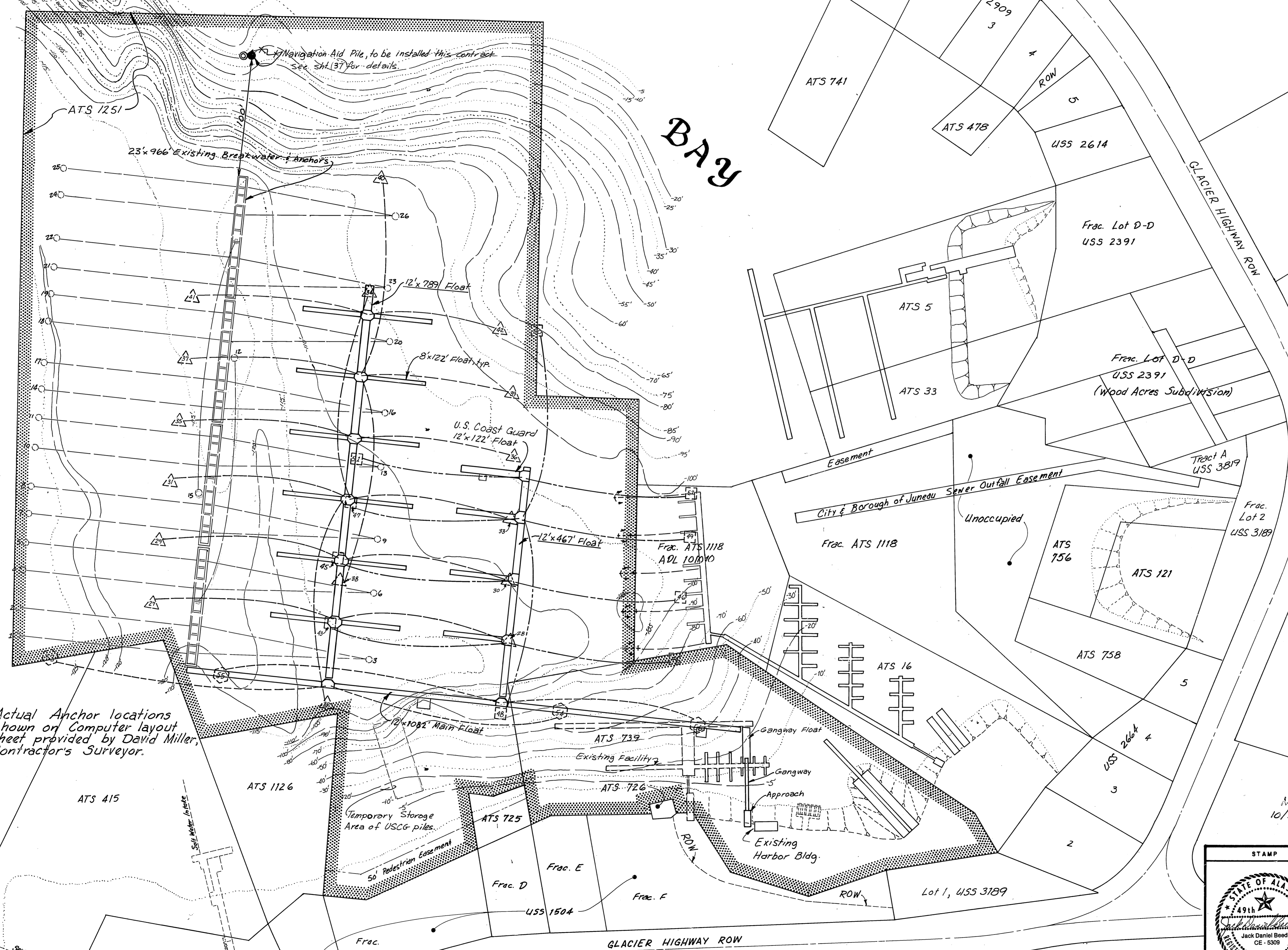
Recommend for Approval
Steven O. Bradford 11/4/86
Group Design Chief Date

SHEET 1 of

AUKE



BAY



- NOTES:
1. Lateral Anchors to be installed Perpendicular to & of floats of anchor units. Longitudinal Anchors to be installed along & of floats. All anchor locations to be established using actual Dimensions of Fabricated and Tensioned units and shall be approved by the engineer prior to placing anchors.
 2. Dimensions shown are approximate design dimensions, and shall not be used in Anchor location.
 3. Anchors 35 through 42 shall be included in Supplement B See sheet (3)

- Anchors and Anchor Chains**
- Existing Breakwater 1-26
 - To be Installed this project, 12' x 789' Float 27-42
 - To be Installed this project, 12' x 467' Float 43-52
 - To be Installed this project, 12' x 1082' Float 53-56
 - Existing 5000 lb. Navy Anchor 57-60

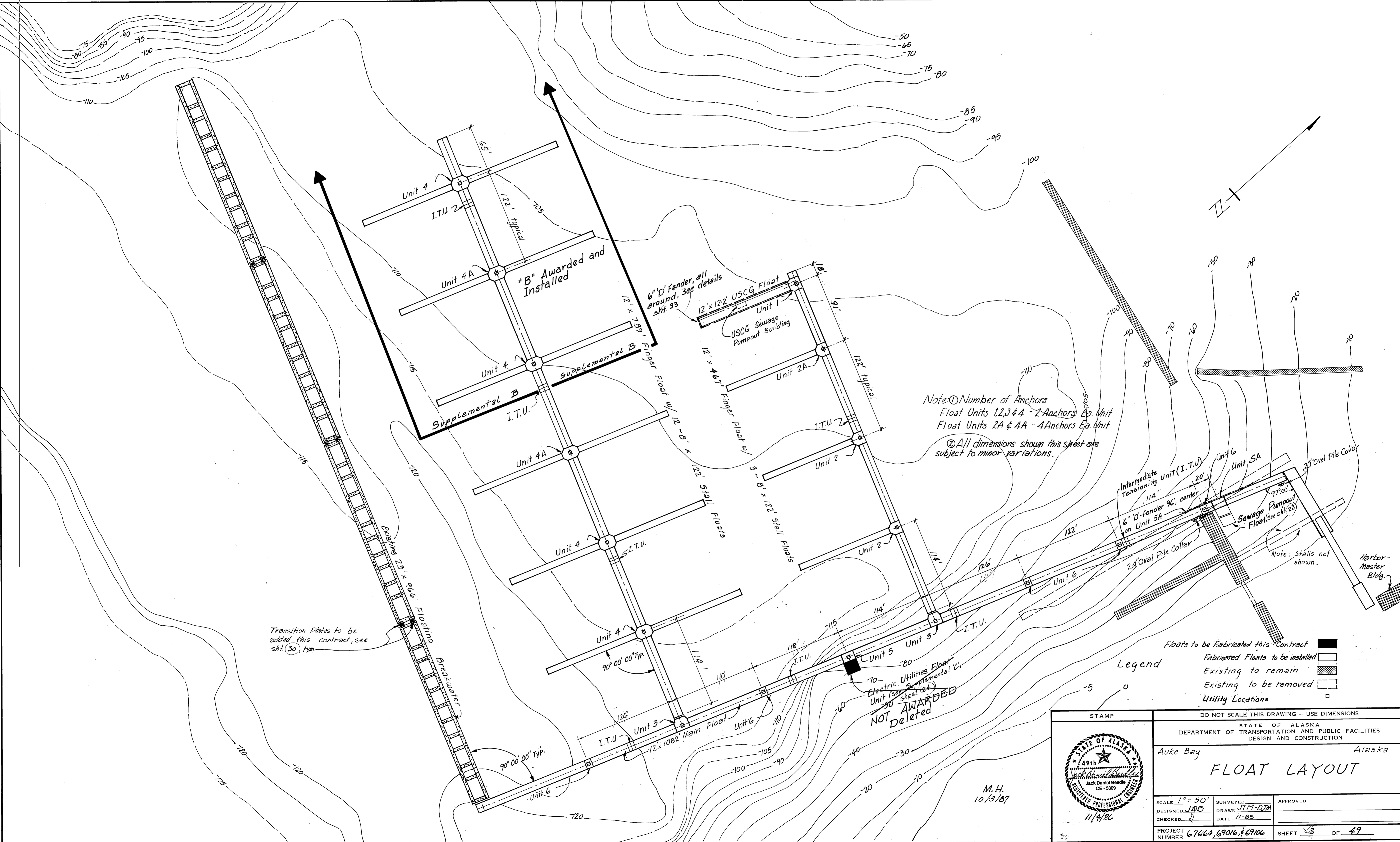
Tidal Datum	FEET
EHW	22.00
MHHW	15.85
MHW	14.85
MW	8.20
MLW	1.55
MLLW	0.00
ELW	-6.00

M.H.
10/2/87

Actual Anchor locations shown on Computer layout sheet provided by David Miller, Contractor's Surveyor.

	DO NOT SCALE THIS DRAWING - USE DIMENSIONS			
	STATE OF ALASKA DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES			
	Auke Bay		Alaska	
PROJECT LAYOUT				
DESIGNED <u>JDB</u>	CHECKED <u>[Signature]</u>	DRAWN <u>DJM</u>	DATE <u>11-85</u>	
PROJECT NUMBER <u>67664, 69016, 67106</u>	SHEET <u>2</u> OF <u>49</u>			

(Scale 1"=100')



Note: ① Number of Anchors
 Float Units 1, 2, 3 & 4 - 2 Anchors Ea. Unit
 Float Units 2A & 4A - 4 Anchors Ea. Unit
 ② All dimensions shown this sheet are subject to minor variations.

Floats to be Fabricated this Contract
 Fabricated Floats to be installed
 Existing to remain
 Existing to be removed
 Utility Locations

STAMP		DO NOT SCALE THIS DRAWING - USE DIMENSIONS	
		STATE OF ALASKA DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES DESIGN AND CONSTRUCTION	
		Auke Bay, Alaska	
FLOAT LAYOUT			
SCALE 1" = 50'	SURVEYED	APPROVED	
DESIGNED JDB	DRAWN JTM-DJM		
CHECKED	DATE 11-85		
PROJECT NUMBER 67664, 69016, 69106	SHEET 3 OF 49		

M.H.
10/3/87

Utilities Float
 Electric Unit (see sheet 24)
 NOT AWARDED
 Deleted

Transition Plates to be added this contract, see sheet (30) TYP

Note: stalls not shown.

Harbor Master Bldg.

Sewage Pumpout Float (see sheet 22)

Intermediate Tensioning Unit (I.T.U.)

Unit 6

Unit 5A

24" Oval Pile Collar

122'

114'

20'

6" D-fender 96' center on Unit 5A

24" Oval Pile Collar

Unit 6

Unit 5

Unit 4

Unit 3

Unit 2

Unit 1

Unit 2A

Unit 4A

Unit 4

Unit 4

Unit 4

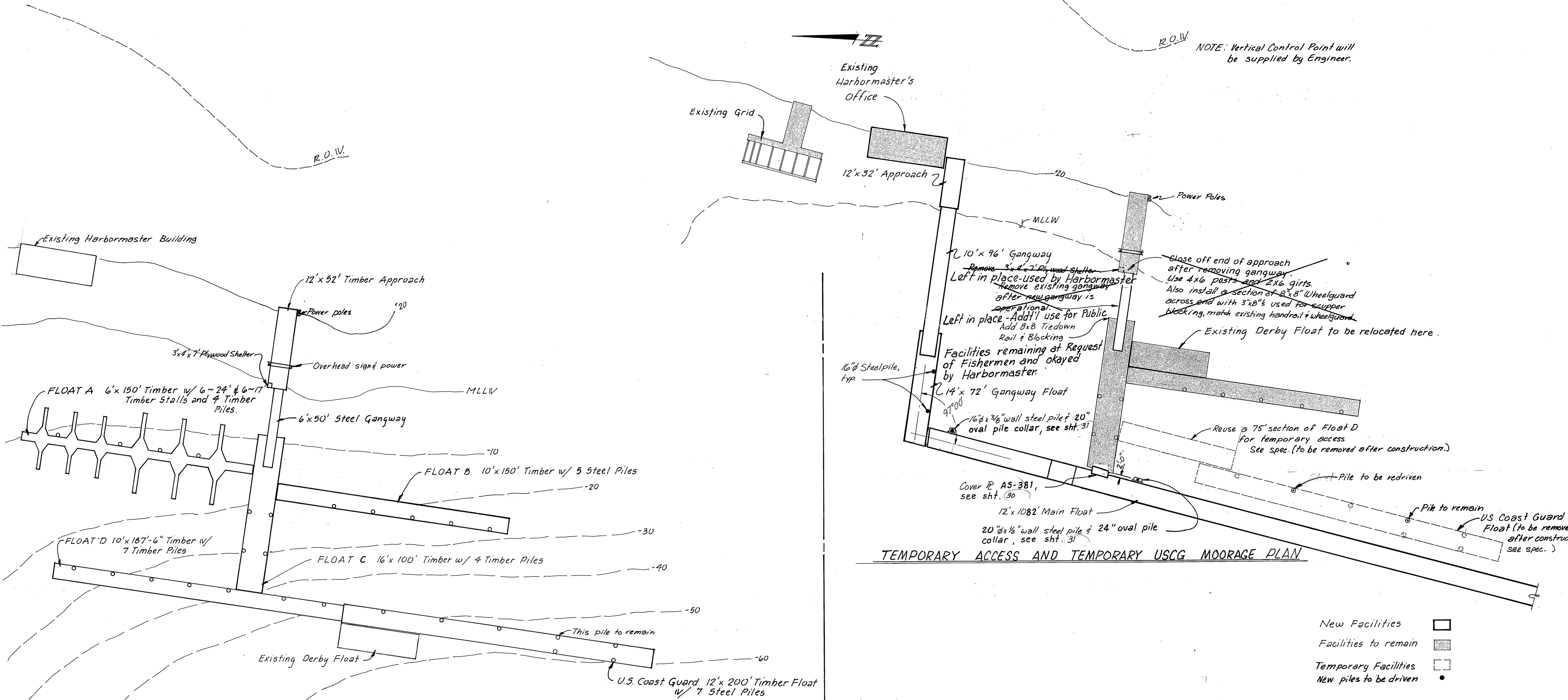
Unit 4

Unit 4

Unit 4

Unit 4

Unit 4



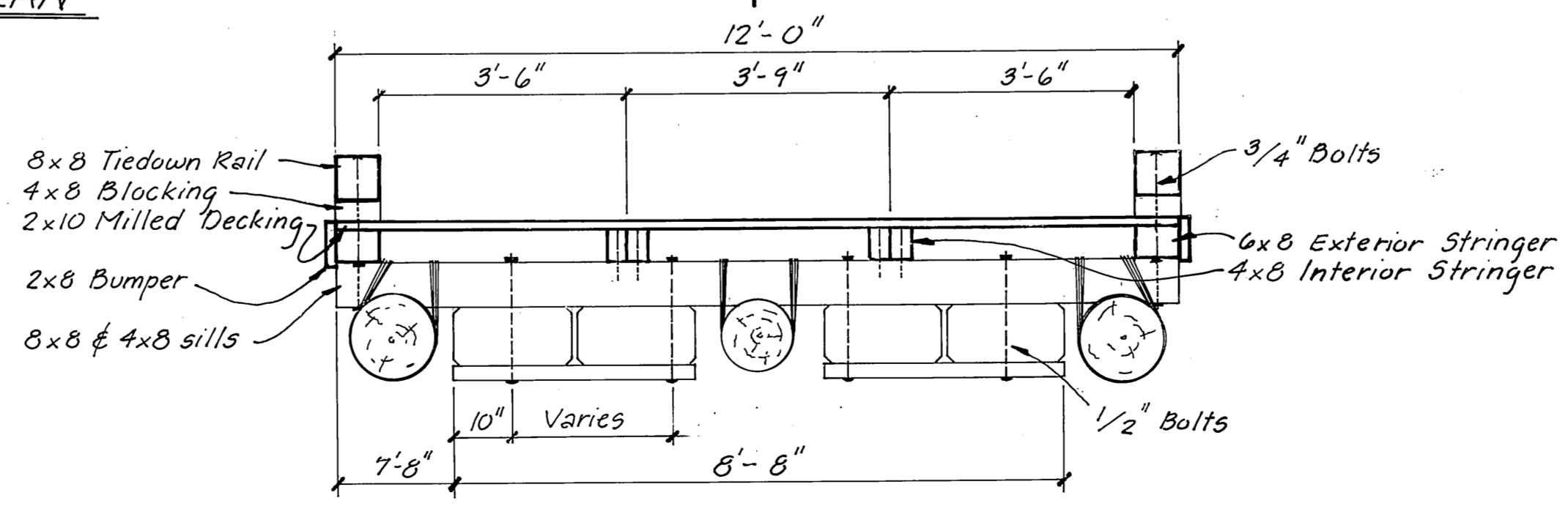
TEMPORARY ACCESS AND TEMPORARY USCG MOORAGE PLAN

- New Facilities
- Facilities to remain
- Temporary Facilities
- New piles to be driven

MODIFICATIONS TO EXISTING FACILITY

1. **FLOAT A** - Remove electrical lighting and store on float, pull piles and store in water; turn float, lighting and piles over to harbormaster for removal.
2. **FLOAT B** - To remain - Temporary Lighting wire left on pile tops for temporary use, if needed.
3. **FLOAT C** - To remain, however, modify end of float to be parallel with new float. Furnish and install cover plate and add 16' section of tiedown rail to gangway end of float. Dap ends into existing tiedown rail and install blocking.
4. **FLOAT D** - Remove lighting, piles and float, use 10'x75' section of float D for temporary access to the USCG float. Turn float, lighting and piles over to harbormaster.
5. Relocate existing Derby float as shown, on this sheet.
6. **USCG float** - Pull all but 1 pile (as shown), relocate float out of way of main float and redrive one pile, (see detail this sheet). Temporarily store piles in area shown on sheet 2.
7. Remove existing gangway and guide rails. Transport gangway to timber storage area. See View Above Right. Install an 8x8 wheelguard w/ 2x6 scupper blocks and a railing across end of approach, remove plywood shelter.
8. All dimensions shown on this sheet are subject to minor variations.

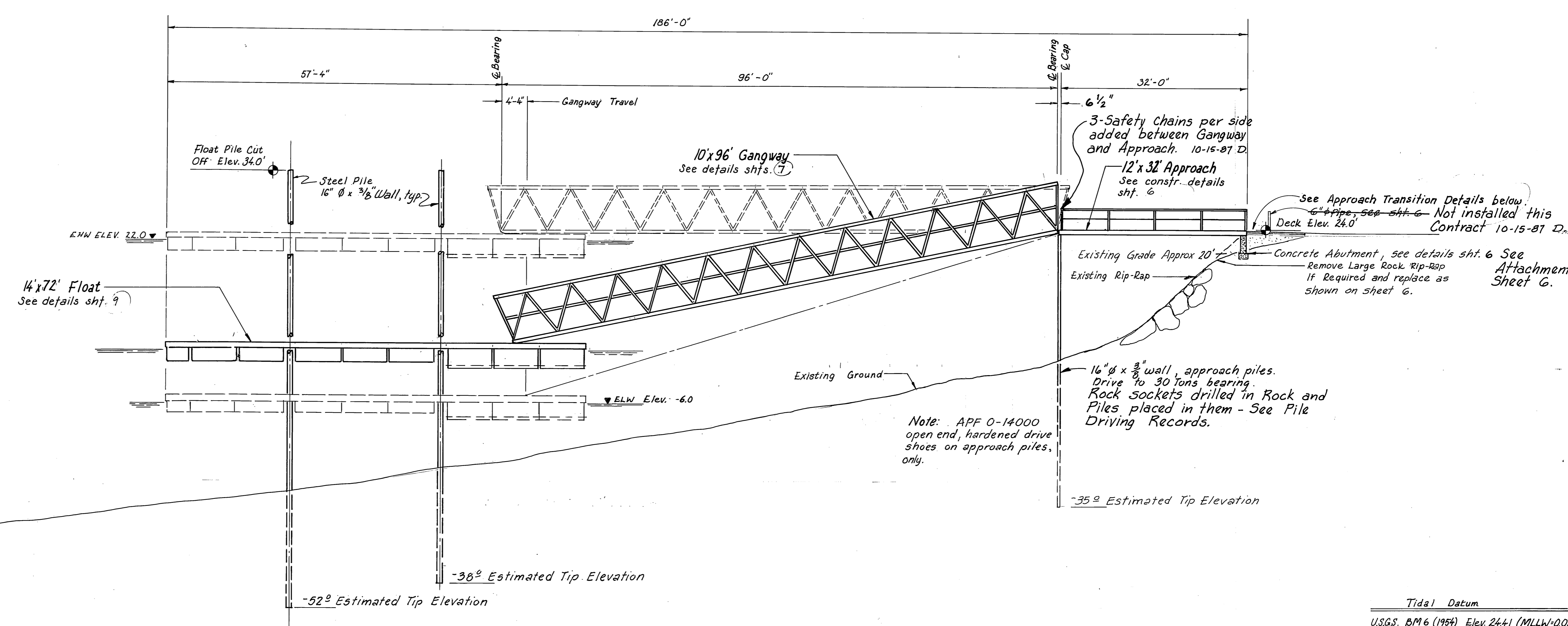
EXISTING FACILITIES PLAN



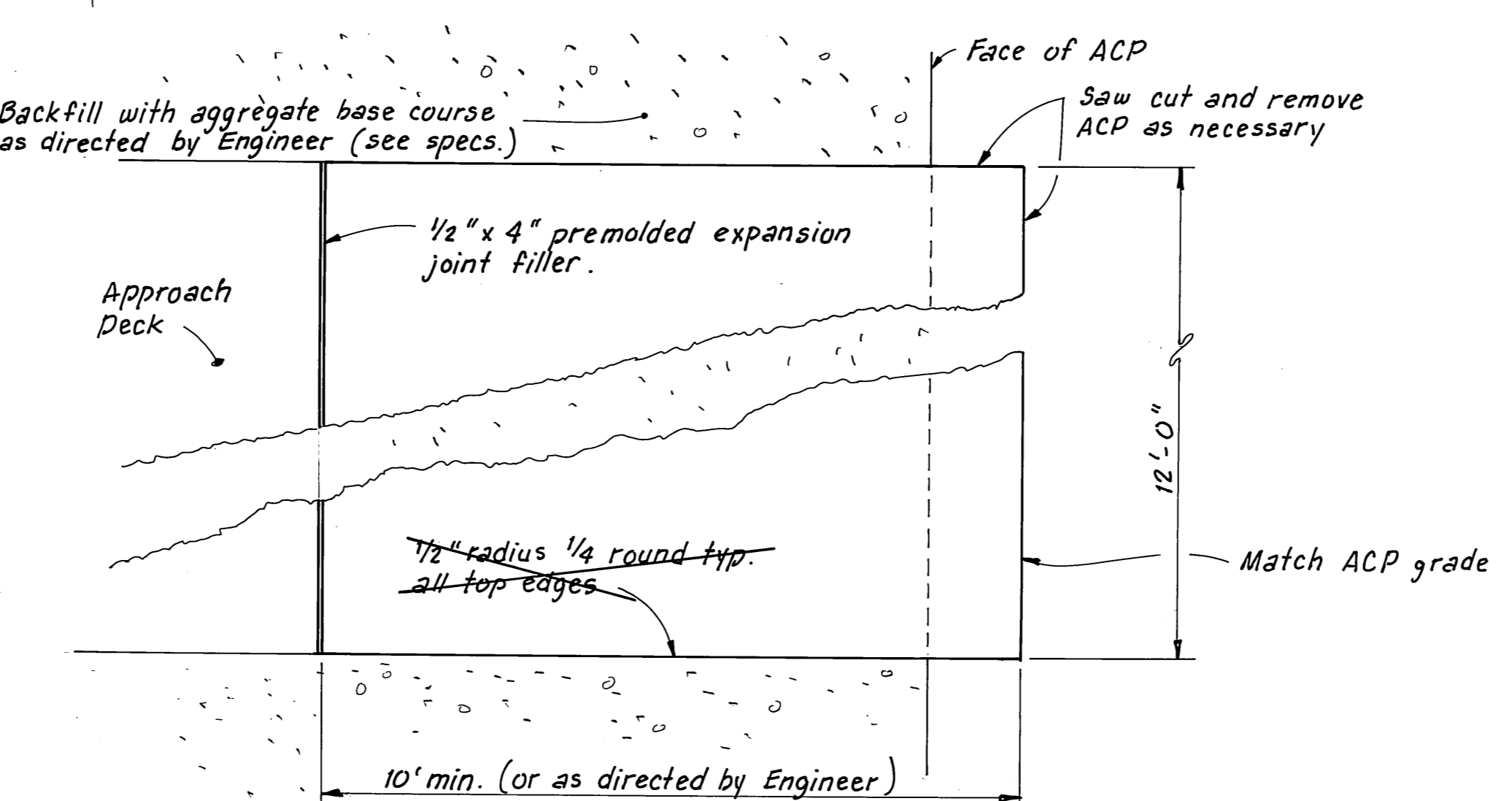
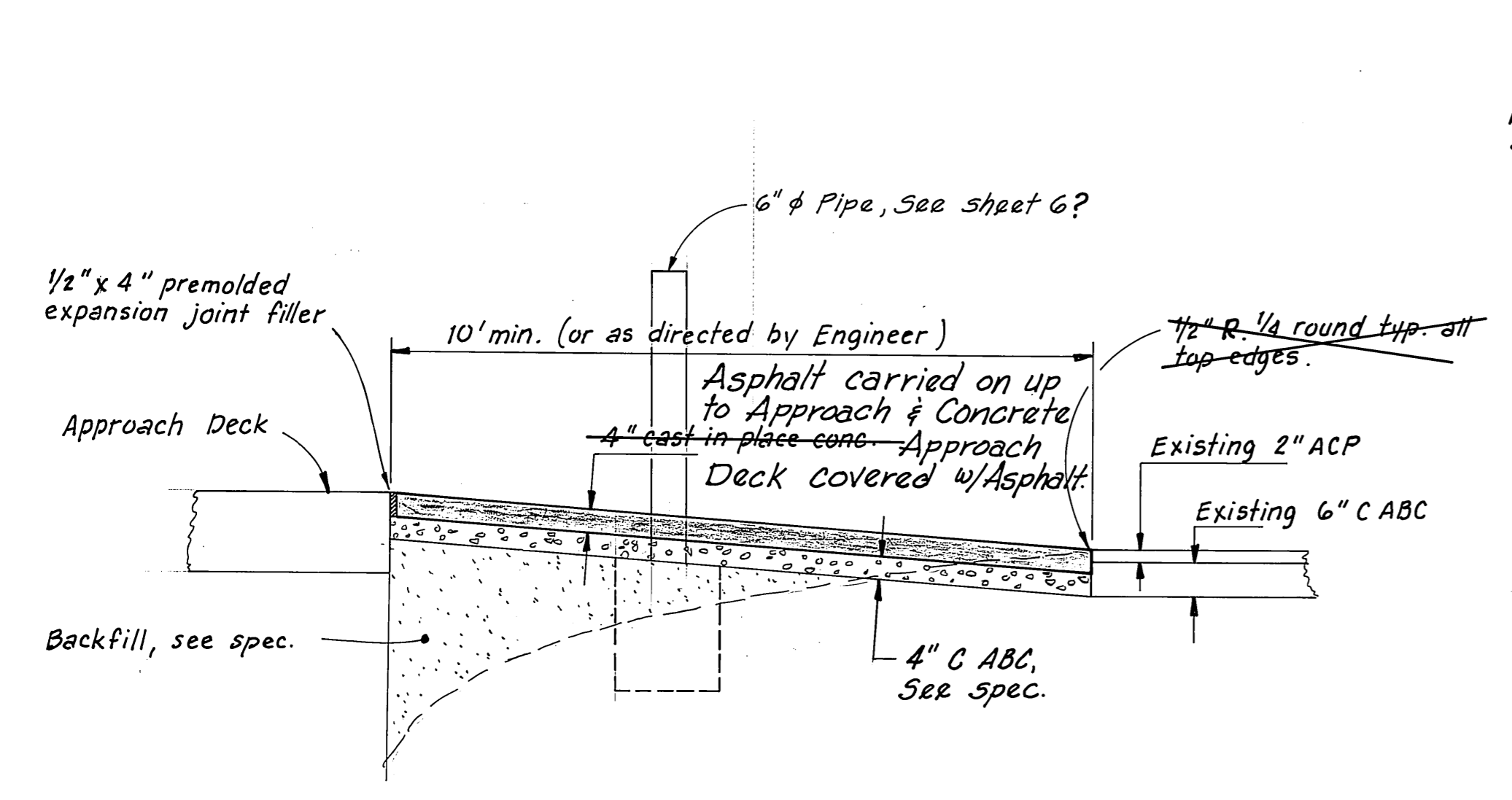
SECTION: EXISTING USCG FLOAT
1/2" = 1'-0"

M.H.
10/3/87

STAMP	DO NOT SCALE THIS DRAWING - USE DIMENSIONS	
	STATE OF ALASKA DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES DESIGN AND CONSTRUCTION	
	Auke Bay	Alaska
MODIFICATIONS TO EXISTING FACILITIES		
SCALE 1" = 30'	SURVEYED	APPROVED
DESIGNED	DRAWN JTM-DM	
CHECKED JB	DATE Jan 86	
PROJECT NUMBER 67664, 69016, 69106	SHEET 4 OF 49	



Tidal Datum	
U.S.G.S. BM 6 (1954) Elev. 24.41 (MLLW-0.0)	
Estimated Extreme High Water	22.0
Mean Higher High Water	15.85
Mean High Water	14.85
Mean Tide Level	8.20
Mean Low Water	1.55
Mean Lower Low Water	0.00
Estimated Extreme Low Water	-6.0



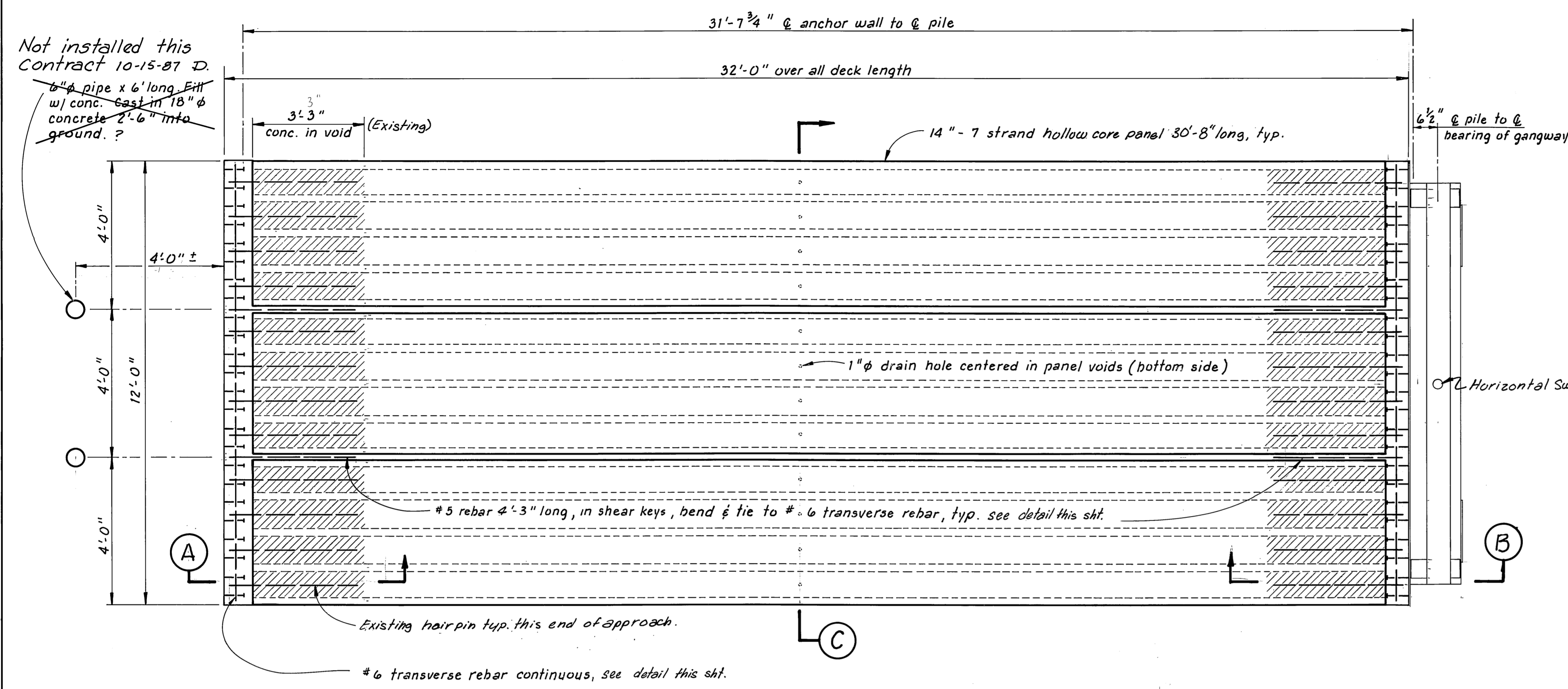
ELEVATION

APPROACH TRANSITION DETAILS
1/2" = 1'-0"

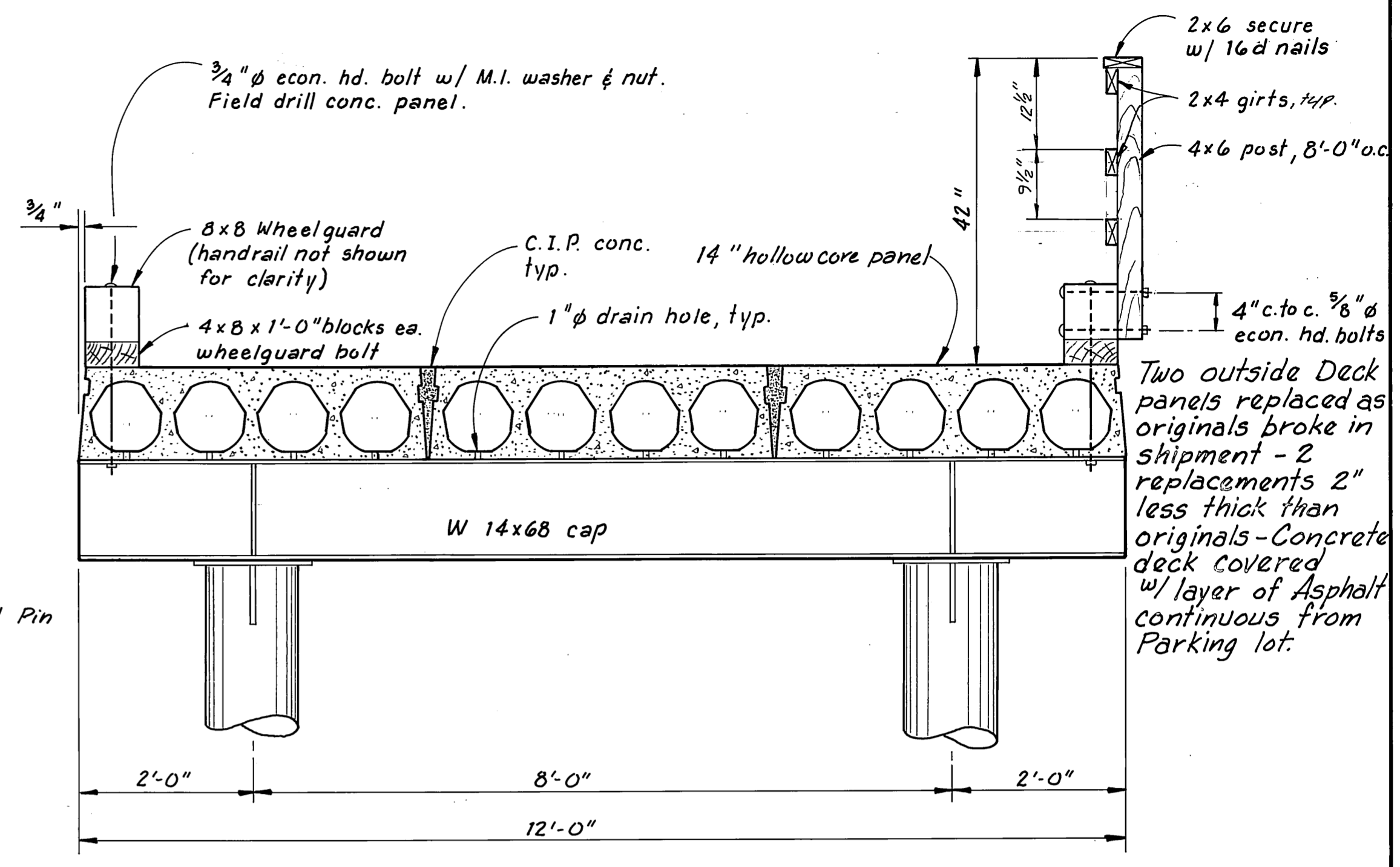
PLAN

M.H.
10/2/87

STAMP		DO NOT SCALE THIS DRAWING - USE DIMENSIONS	
		STATE OF ALASKA DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES DESIGN AND CONSTRUCTION	
		Auke Bay Alaska	
<p>PROFILE AT GANGWAY</p>		SCALE 1" = 10'	SURVEYED
		DESIGNED J.O.B.	DRAWN W.M.N.
CHECKED R.P.B.	DATE 11-85	APPROVED	
PROJECT NUMBER 67664, 69016, 169106	SHEET 5 OF 49		



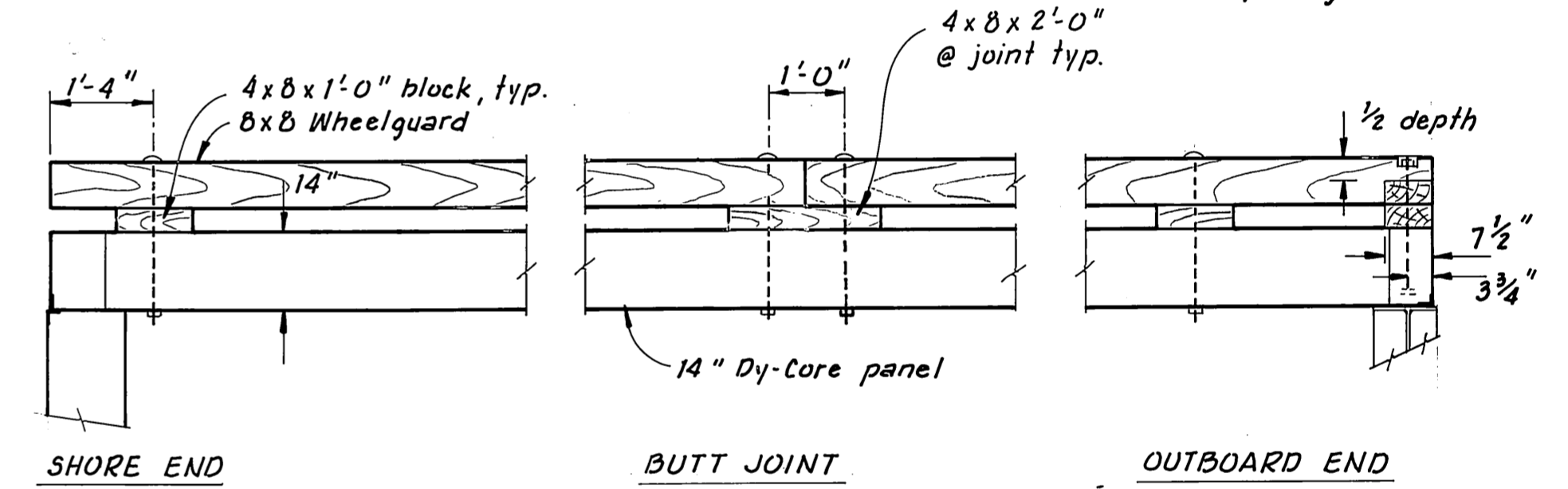
PLAN
1/2" = 1'-0"



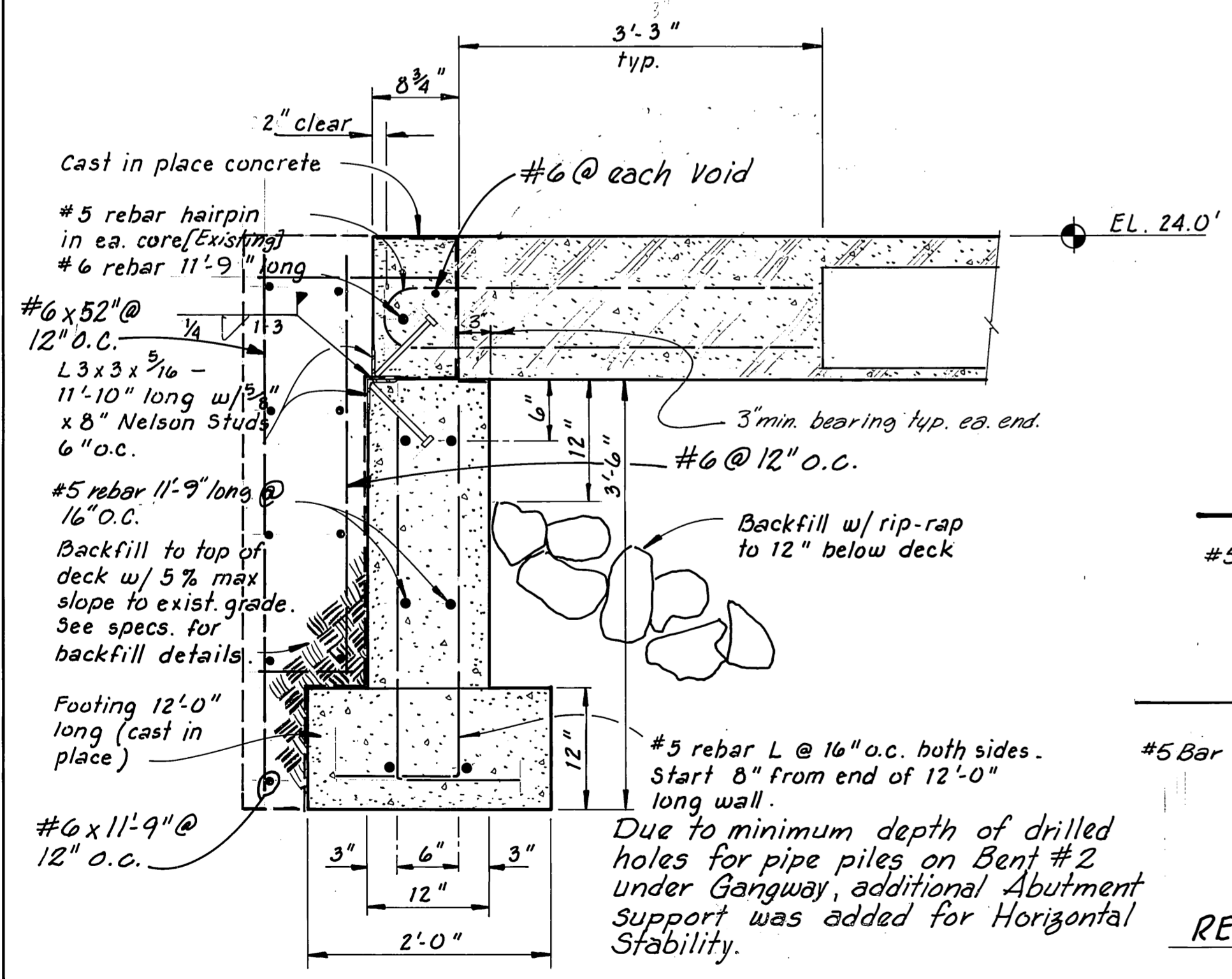
SECTION C
3/4" = 1'-0"

Two outside Deck panels replaced as originals broke in shipment - 2 replacements 2" less thick than originals - Concrete deck covered w/ layer of Asphalt continuous from Parking lot.

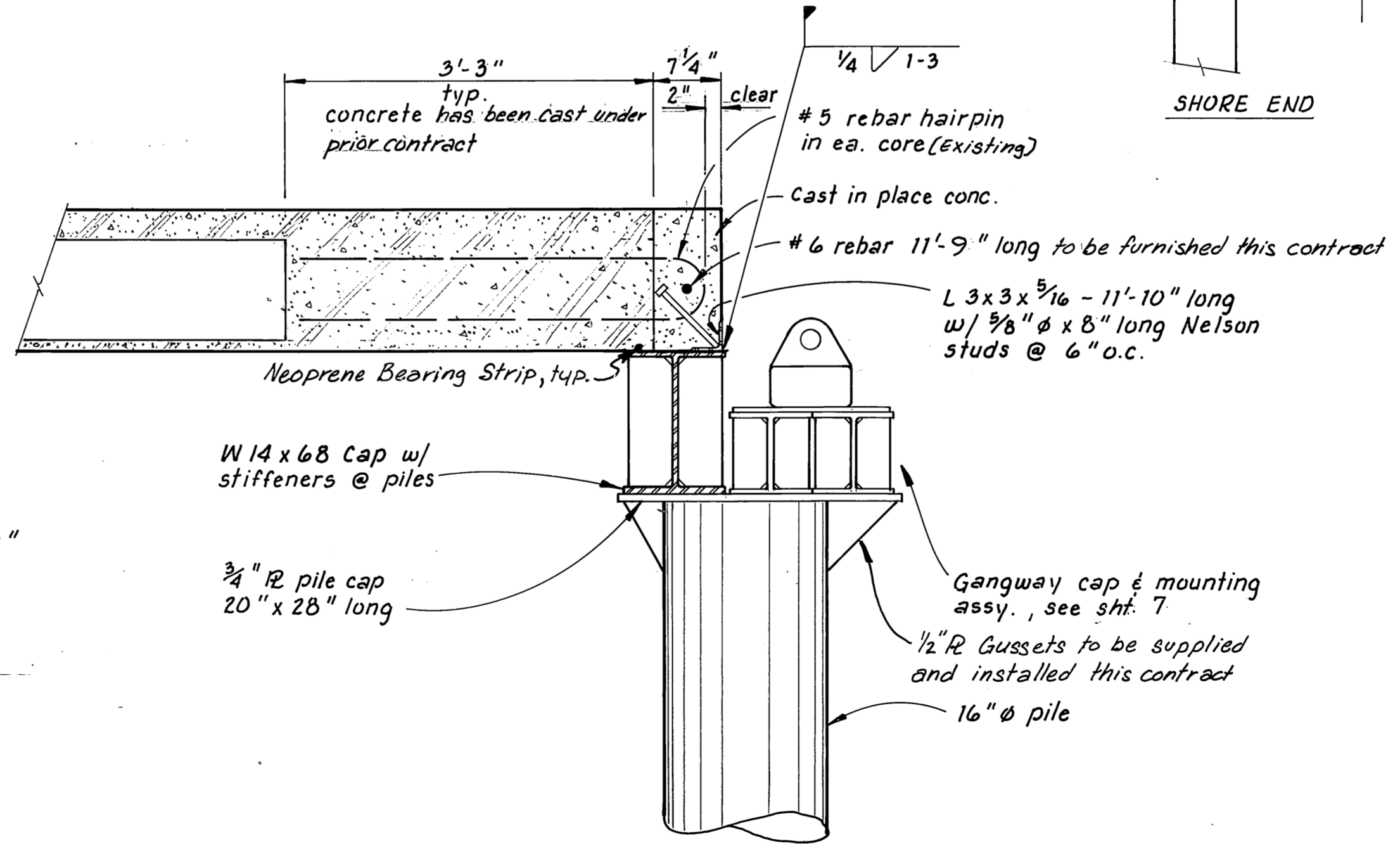
Fabricators option as to wheelguard lengths and bolt spacing. Max. bolt spacing 8'-0".



WHEELGUARD DETAILS
1/2" = 1'-0"



SECTION A
1" = 1'-0"



SECTION B
1" = 1'-0"

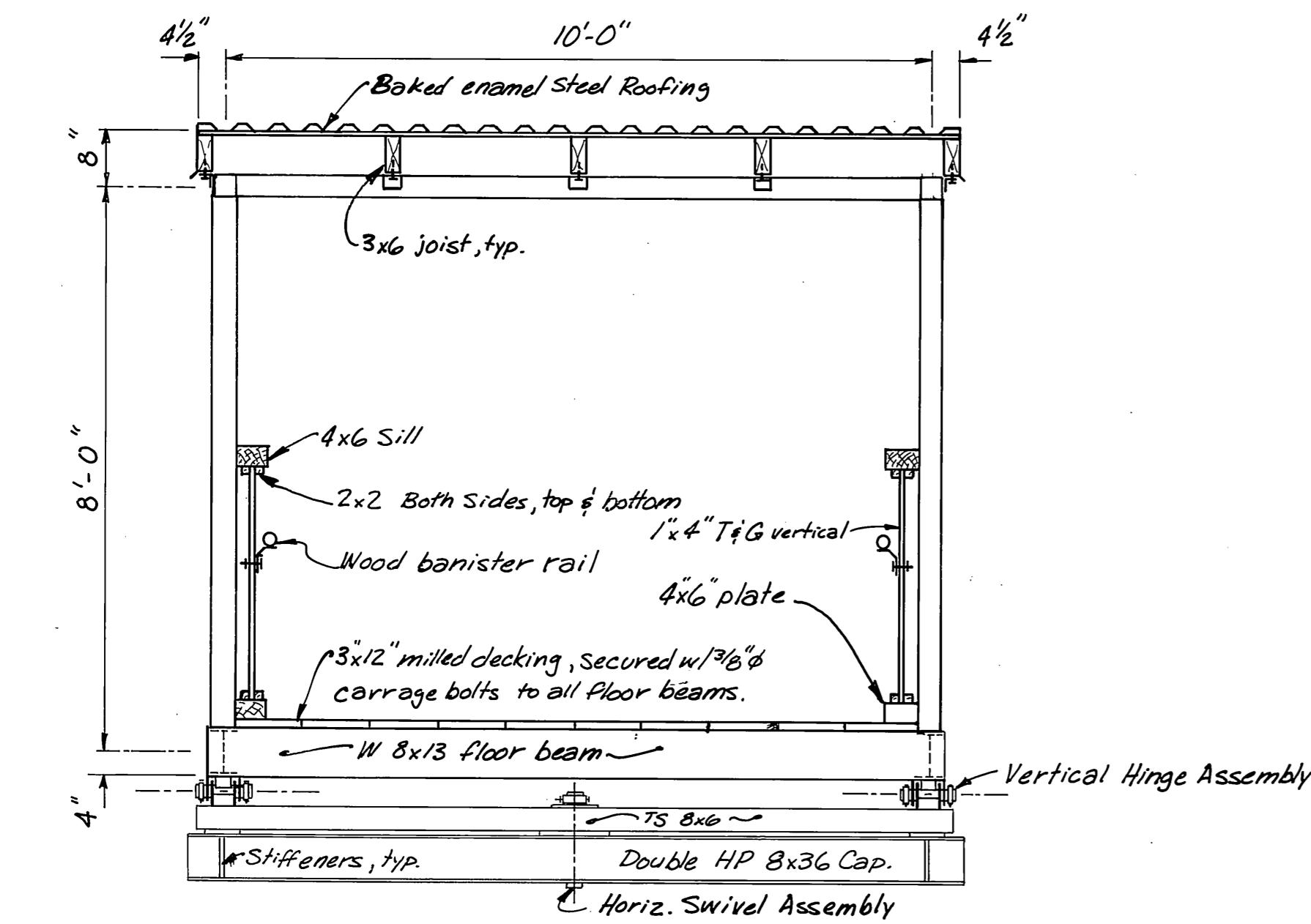
NOTES:

- 3-Hollow Core panels have been fabricated and are stored in Bellingham, Wa.
- Steel piles are in Juneau, steel caps in Bellingham, Wa.
- Rebar for cast in place (C.I.P.) concrete to be furnished and installed under this contract.
- All approach timber to be furnished and installed under this contract.

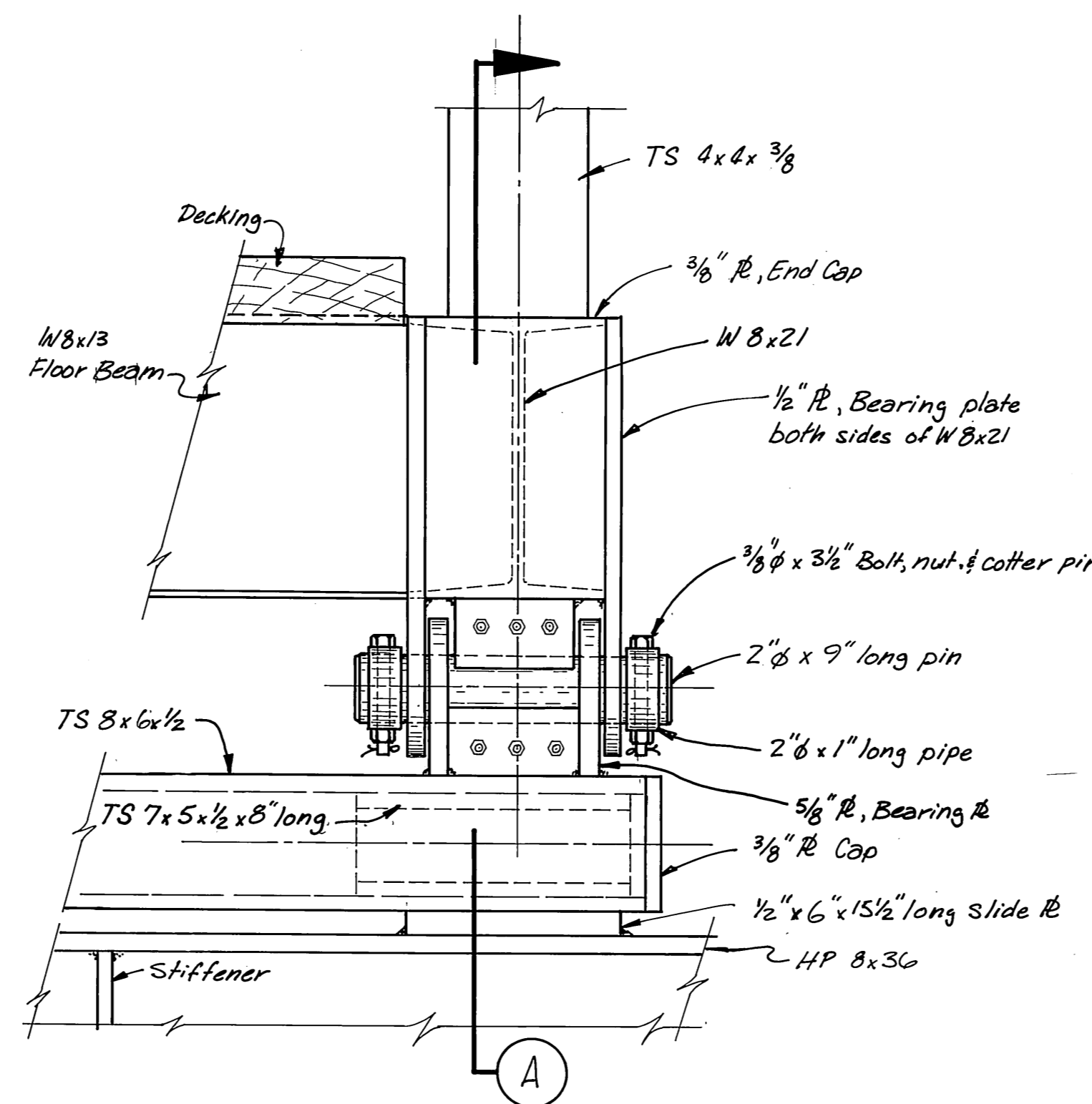
Note 1. Added Footing and Wall to be full width of Approach.

M.H.
10/2/87

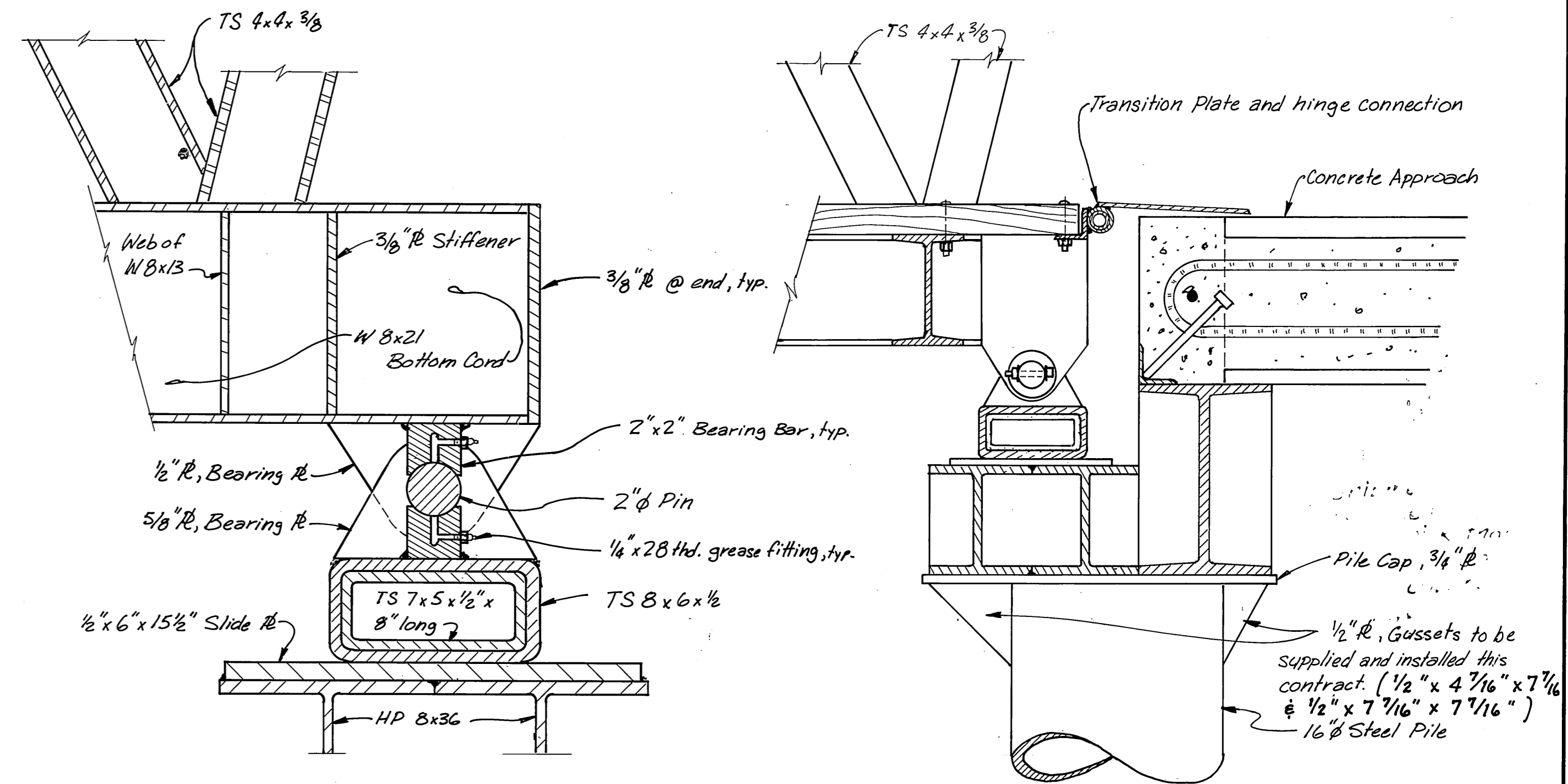
STAMP		DO NOT SCALE THIS DRAWING - USE DIMENSIONS	
		STATE OF ALASKA DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES DESIGN AND CONSTRUCTION	
		Auke Bay Alaska	
CONCRETE APPROACH			
SCALE <u>A5 Noted</u>	SURVEYED	APPROVED	
DESIGNED <u>JDB</u>	DRAWN <u>TS</u>		
CHECKED <u>J</u>	DATE <u>11-85</u>		
PROJECT NUMBER <u>67664, 67106, 67106</u>	SHEET <u>6</u> OF <u>49</u>		



APPROACH END VIEW of 10' x 96' COVERED GANGWAY



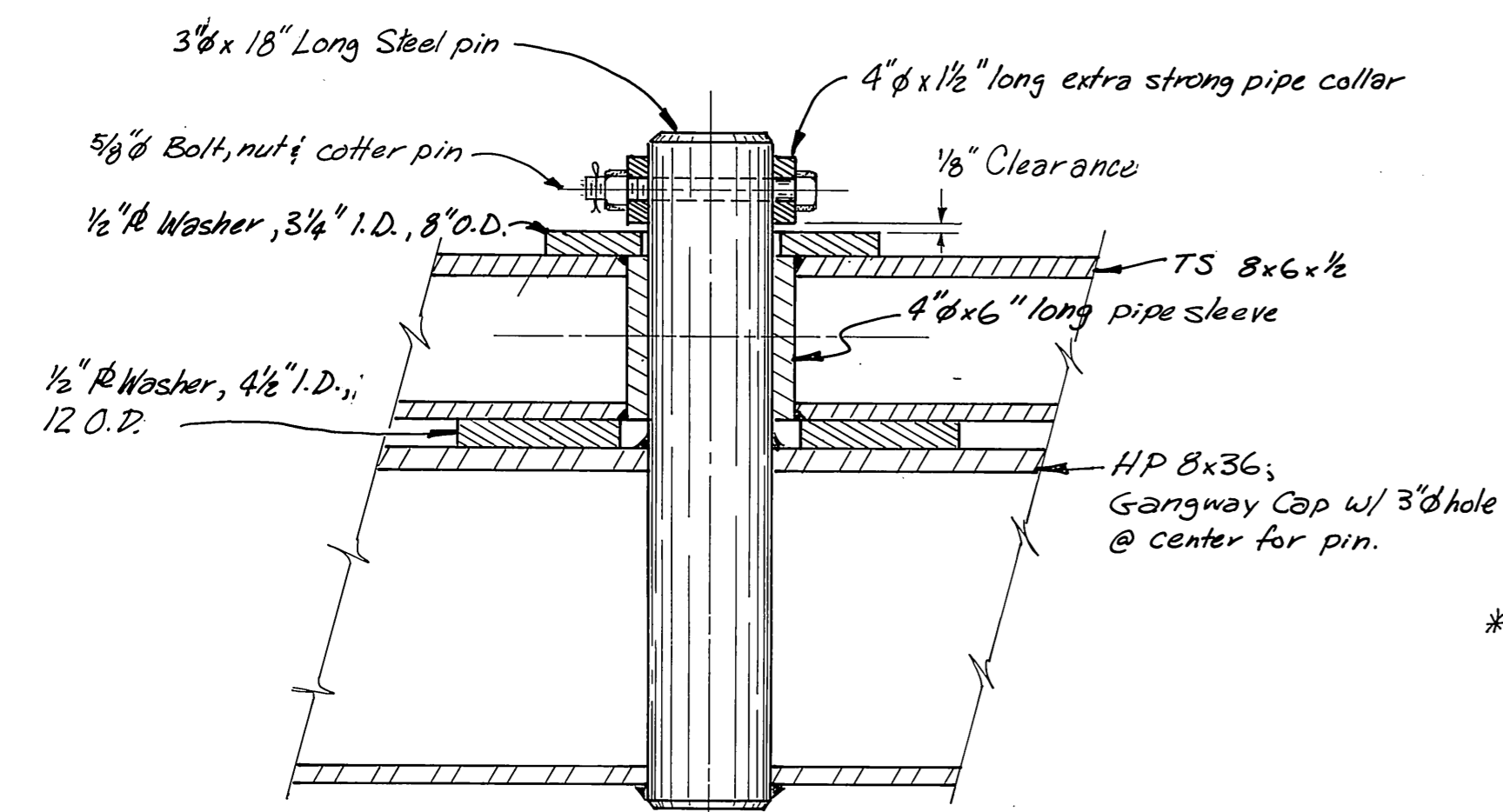
VERTICAL HINGE DETAILS



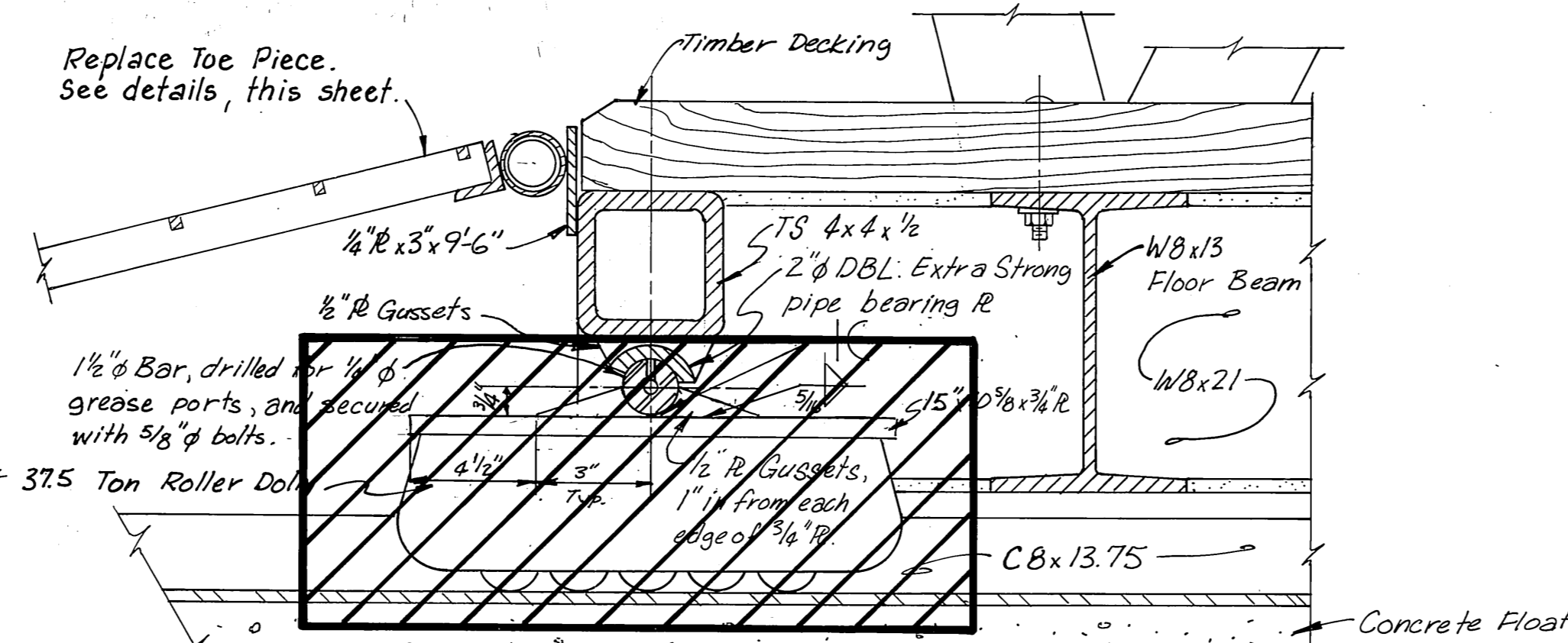
SECTION A

SECTION AT APPROACH

Note: Grease Slide R's before installing gangway



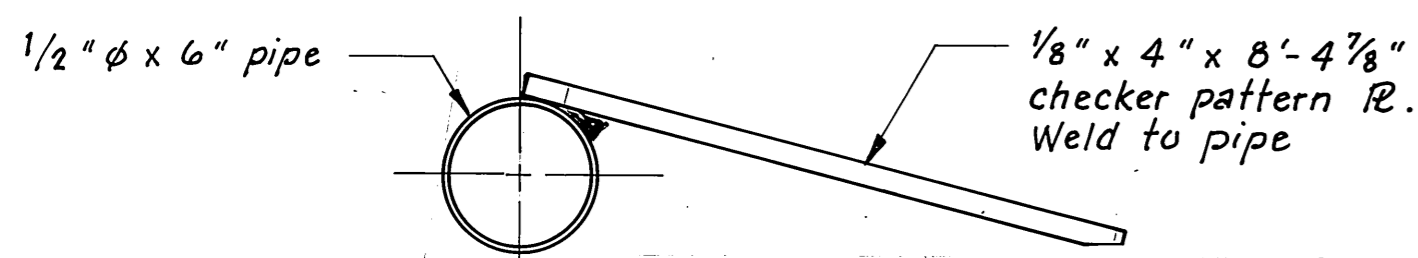
HORIZONTAL SWIVEL DETAILS



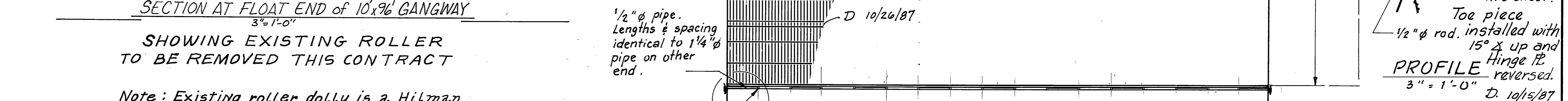
SECTION AT FLOAT END of 10' x 96' GANGWAY

SHOWING EXISTING ROLLER TO BE REMOVED THIS CONTRACT

Note: Existing roller dolly is a Hilman Roller, Roller Model 37.50T, to be removed this contract.



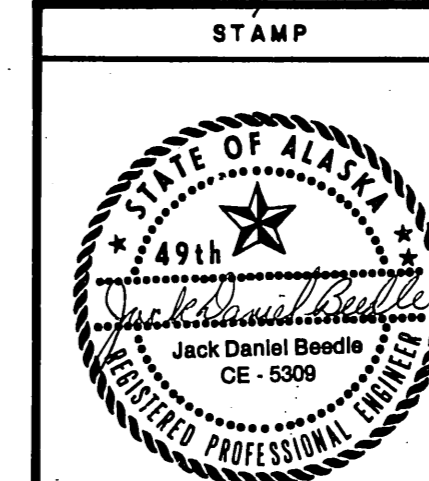
HINGE PLATE



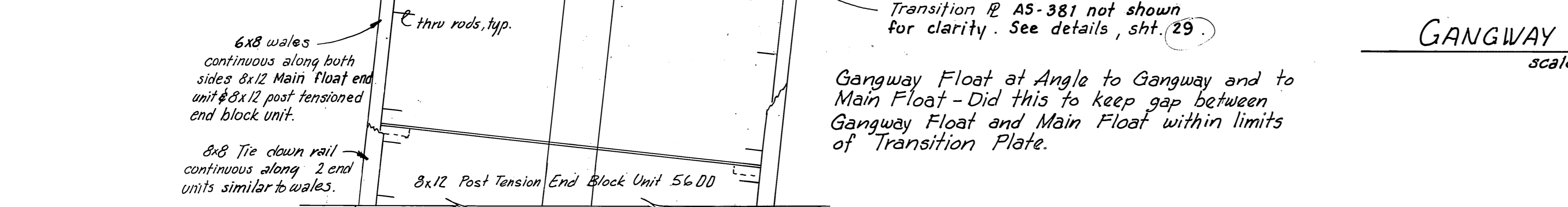
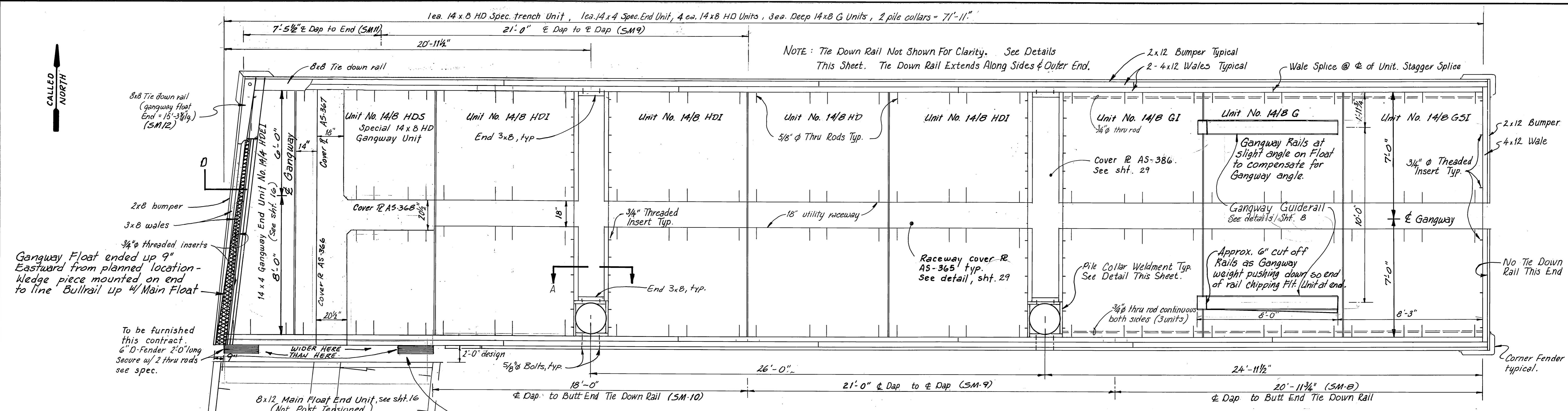
PLAN VIEW

TOE PIECE DETAILS

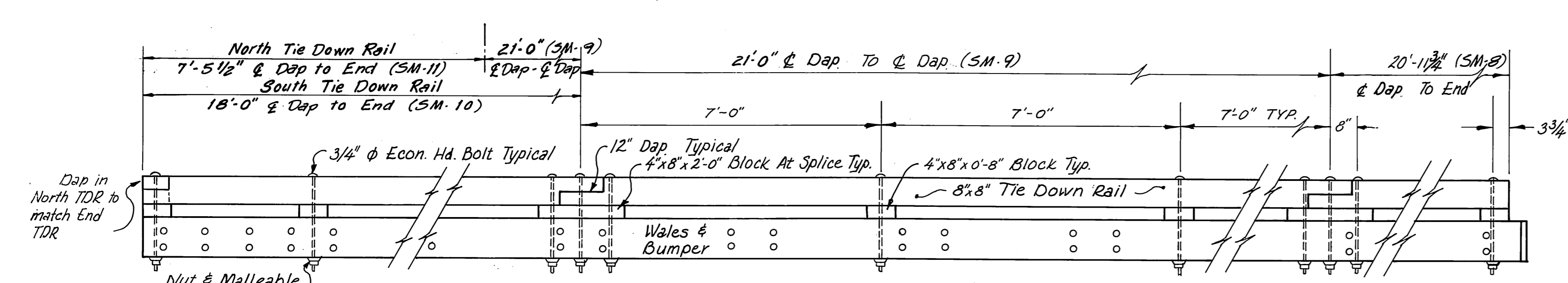
M.H. 10/2/87



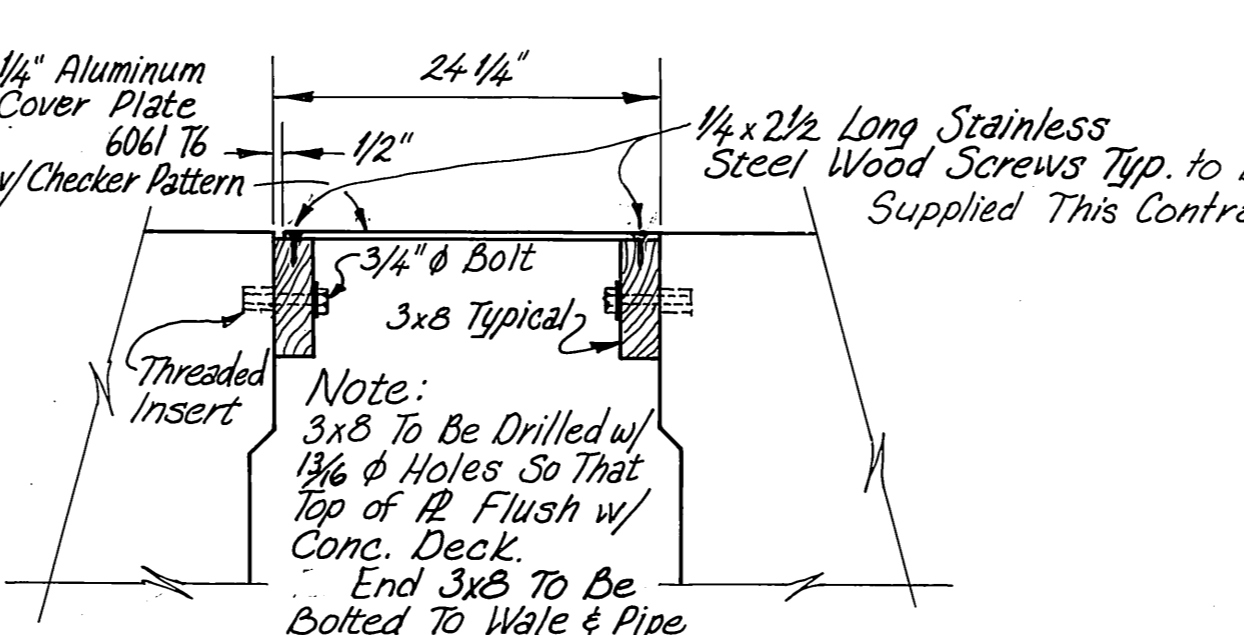
DO NOT SCALE THIS DRAWING - USE DIMENSIONS			
STATE OF ALASKA			
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES			
Auke Bay		Alaska	
10' x 96' GANGWAY DETAILS			
DESIGNED JOB	CHECKED	DRAWN DJM	DATE 11-85
PROJECT NUMBER 67669, 67016, 67106	SHEET 7		OF 49



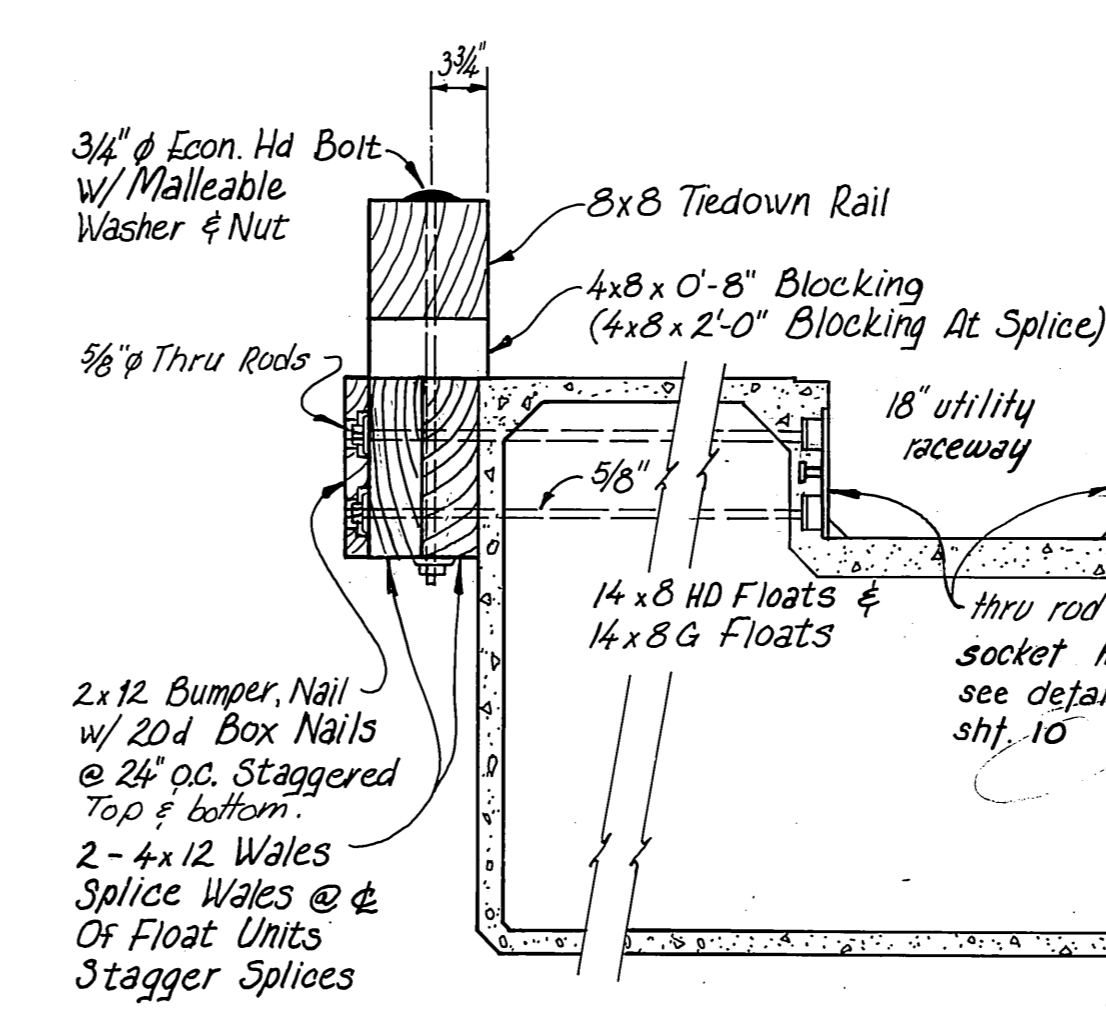
TIE DOWN RAIL DETAILS
scale: 1/2" = 1'-0"



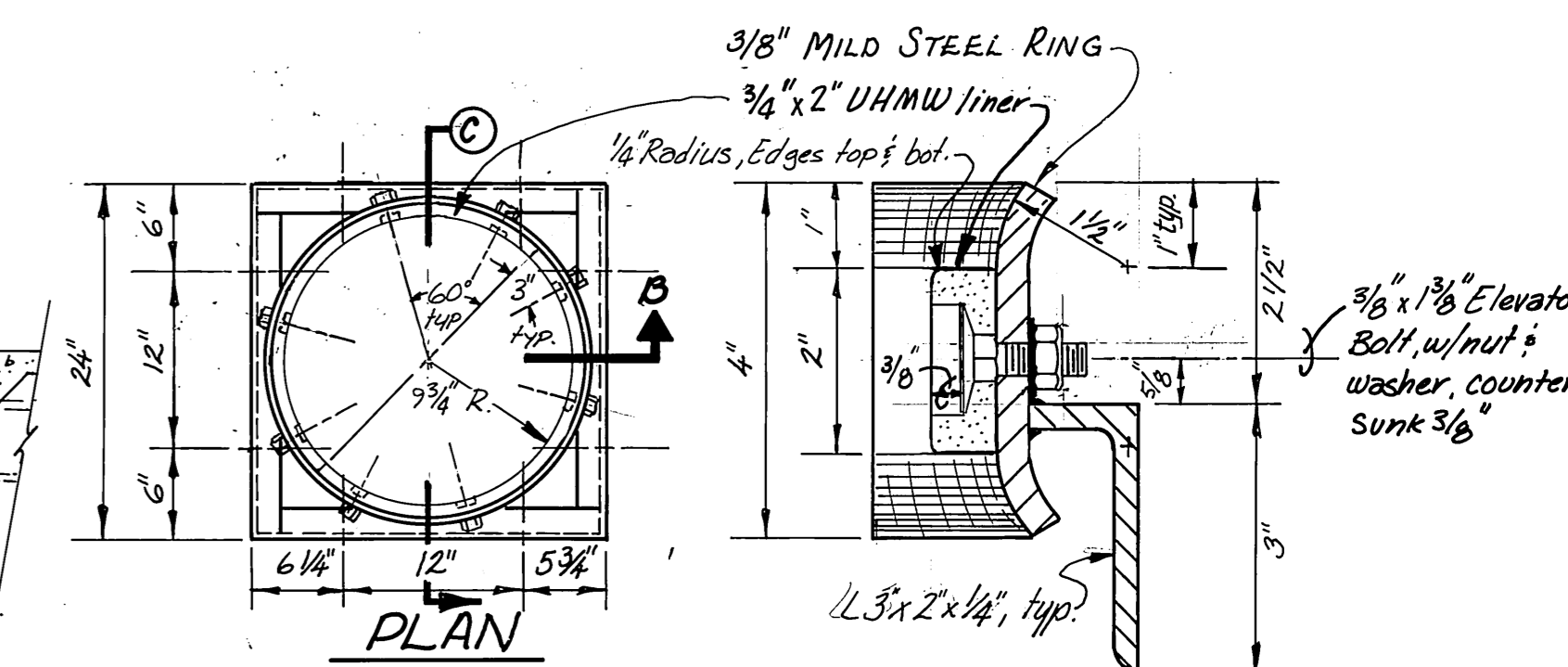
PILE COLLAR COVER PLATE DETAIL (#AS 386, 2 Provided)
scale: 3/4" = 1'-0"



GANGWAY FLOAT LAYOUT
scale: 3/8" = 1'-0"



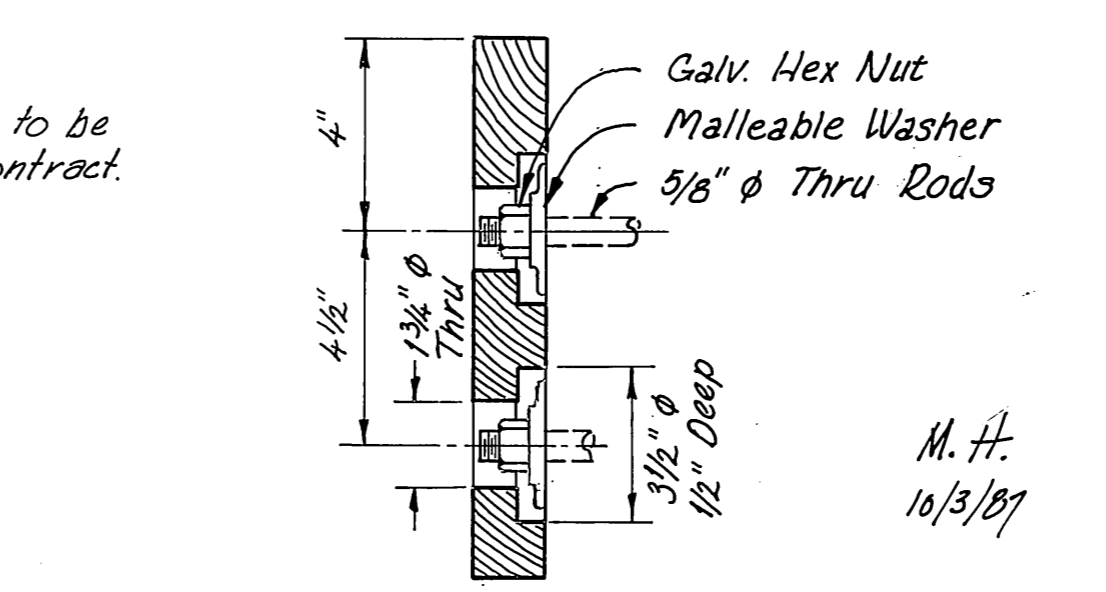
TIE DOWN RAIL SECTION 'D'
scale: 1" = 1'-0"



SECTION 'C'
NOTE: UHMW as shown, is to be Hot Molded to the proper radius and attached w/ 4 bolts w/ nuts & washers per half collar.

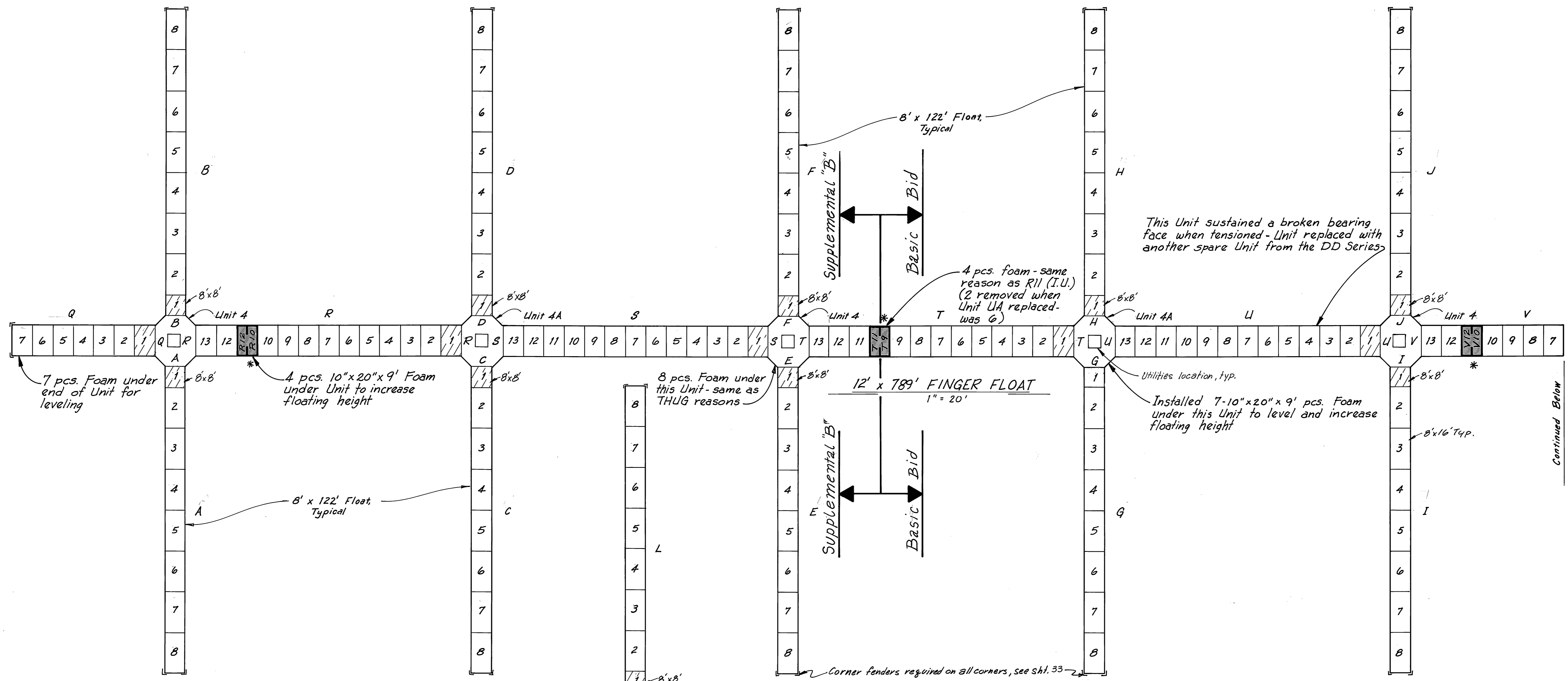
SECTION 'C'
PILE COLLAR WELDMENT DETAILS (2 Provided)

Note: All timber S4S except as noted. Wales to be attached as per specs. Bumper and tiedown rail to be field attached this contract.



2 x 12 BUMPER COUNTERBORE DETAIL
scale: 3" = 1'-0"

STAMP	DO NOT SCALE THIS DRAWING - USE DIMENSIONS	
	STATE OF ALASKA DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES DESIGN AND CONSTRUCTION	
	AUKU BAY	ALASKA
14' x 72' GANGWAY FLOAT AS FABRICATED		
SCALE: AS SHOWN	SURVEYED	APPROVED
DESIGNED	DRAWN: W/M/N	
CHECKED: J.O.B.	DATE: 11-85	
PROJECT NUMBER: 67664, 67016, 67106	SHEET: 9	OF: 49



KEY

- A - Letters indicate float assemblies between intersections
- 1 - Numbers indicate individual float units
- Floats with intermediate grease ports
- Unit (4*) - Indicates a special type of float unit. (example: Unit 4)
- Location of intermediate tensioning units which replace units R11, T10, and V11.
- Utility Location

NOTES:

1. Utility Trench (not shown) is positioned on the center line of the Main Float & Finger Floats, and runs their entire length
2. 2 1/2" thick bearing pads & ledgers used between 12' wide floats, typ. see sht. 32
3. 4" thick bearing pads & ledgers used between 8' wide floats, typ. see sht. 32

TENSIONING NOTES

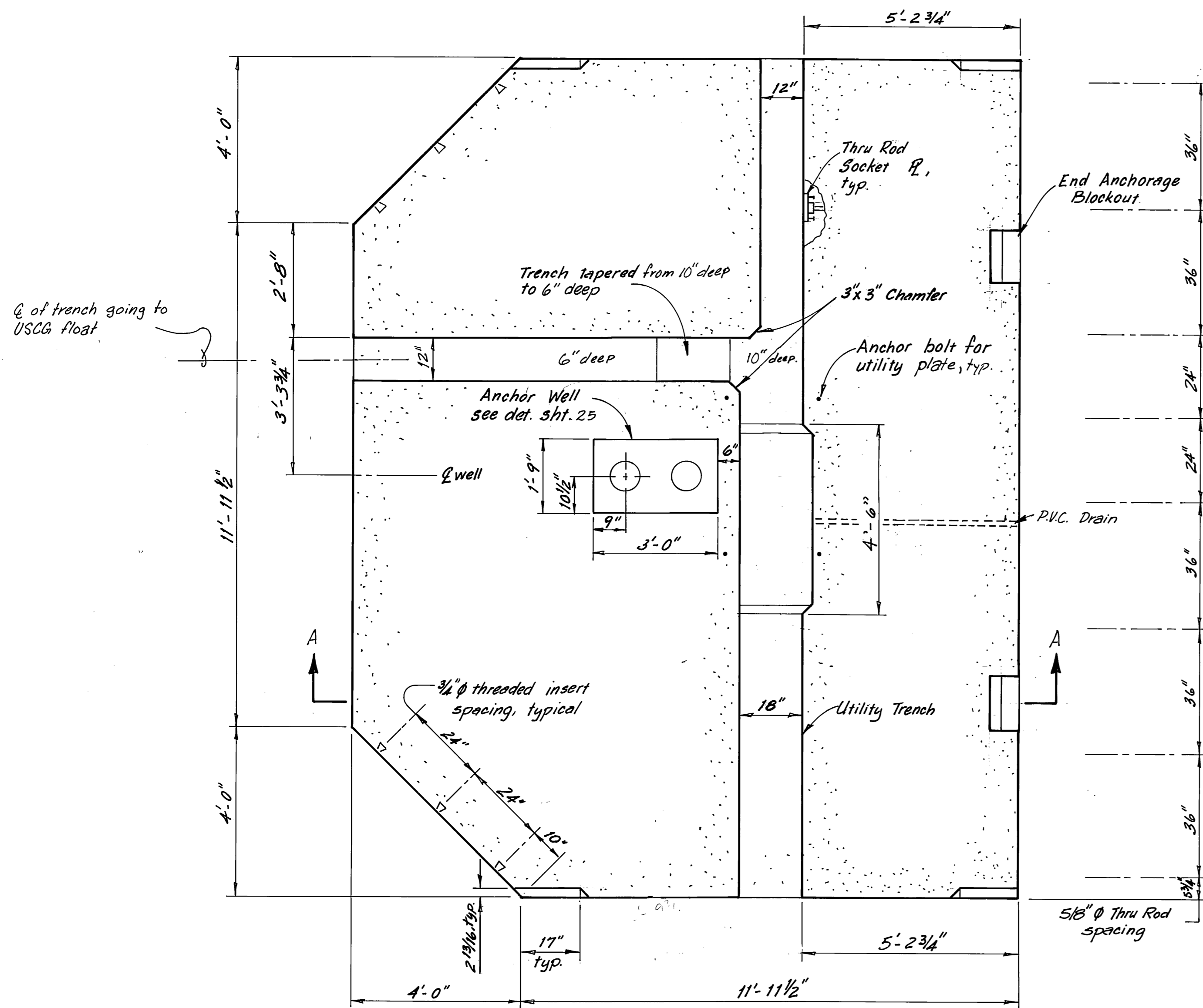
1. Design is based on:
 - a. 7.0.5" (Nom), 270 KSI STRANDES PER DUCT FOR EACH SEGMENT OF THE:
 1. 12' x 1082' Main Float
 2. 12' x 789' Finger Float
 3. 12' x 467' Finger Float
 4. 12' x 122' USCG Float
 - b. 4.0.5" (Nom), 270 KSI STRANDES PER DUCT FOR ALL 8' WIDE FINGER FLOATS.
2. 7 strand tendons shall be jacked to an initial force of 202.4 kips.
3. 4 strand tendons shall be jacked to an initial force of 115.7 kips.
4. The contractor shall calculate theoretical elongations and provide them to the Engineer for approval at least two weeks prior to tensioning.
5. Actual elongations shall not vary more than 5% from calculated without approval of the Engineer.
6. TENDONS AT AN END SHALL BE TENSIONED SIMULTANEOUSLY.
7. SEGMENTS SHALL BE TENSIONED AT BOTH ENDS.

M.H.
10/3/87

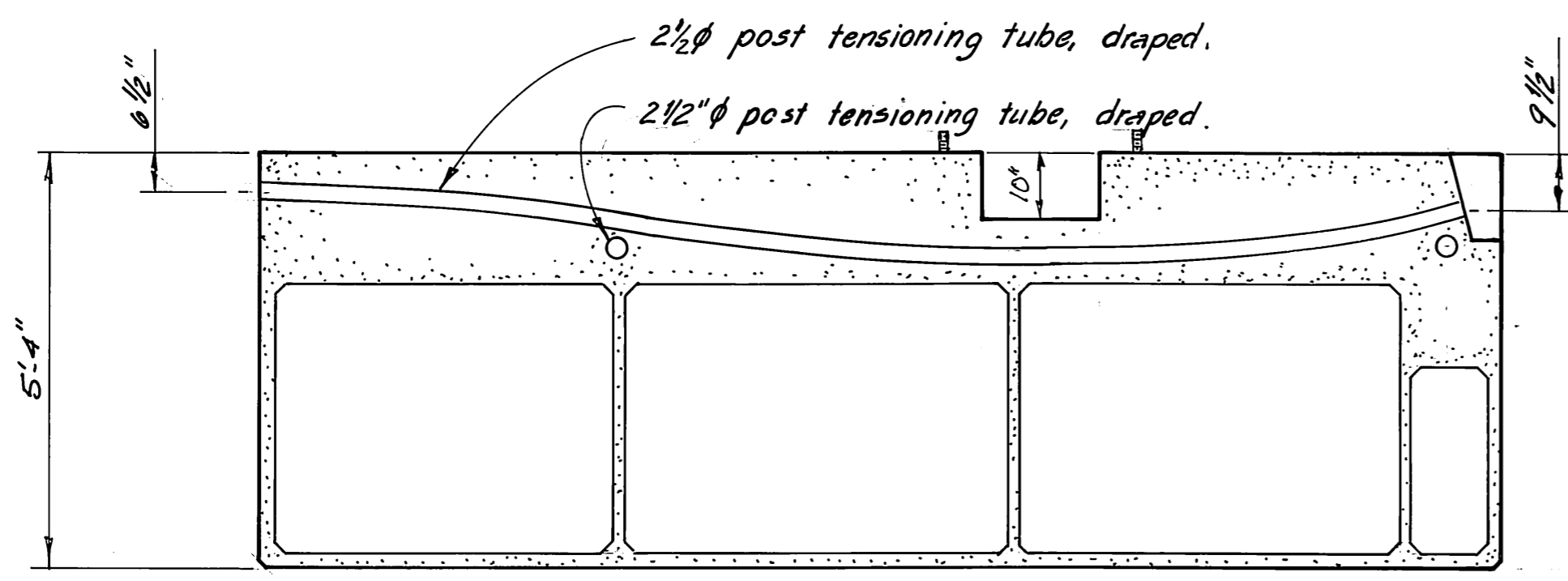
STAMP		DO NOT SCALE THIS DRAWING - USE DIMENSIONS	
		STATE OF ALASKA DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES DESIGN AND CONSTRUCTION	
		Auke Bay Alaska FLOAT UNIT ASSEMBLY SEQUENCE 12' x 789' FLOAT	
SCALE 1" = 20'	SURVEYED	APPROVED	
DESIGNED JAB	DRAWN DB/DM		
CHECKED	DATE 11-85		
PROJECT NUMBER 67664, 69016, 69106	SHEET 12 OF 49		

Continued Below

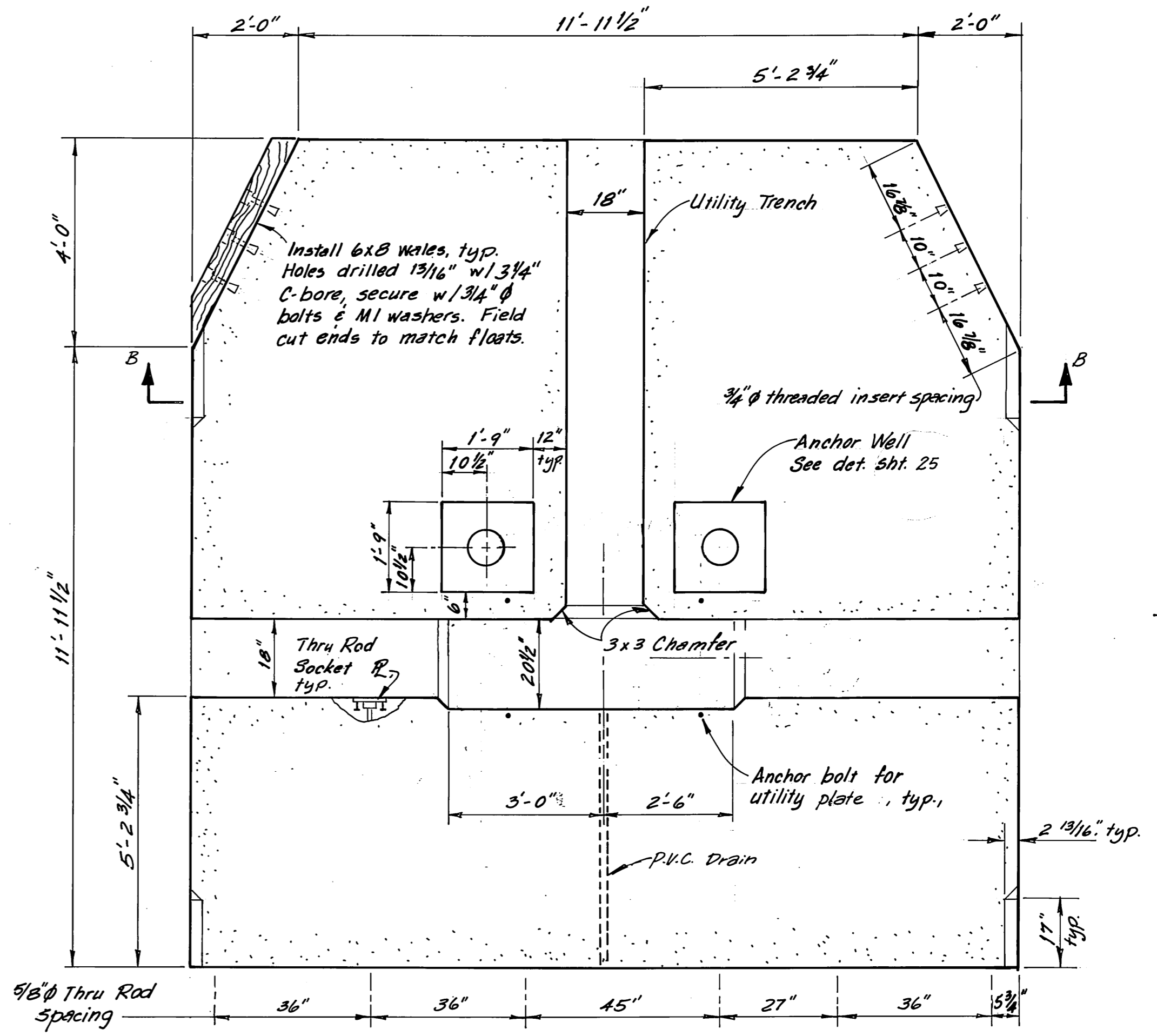
Continued Above



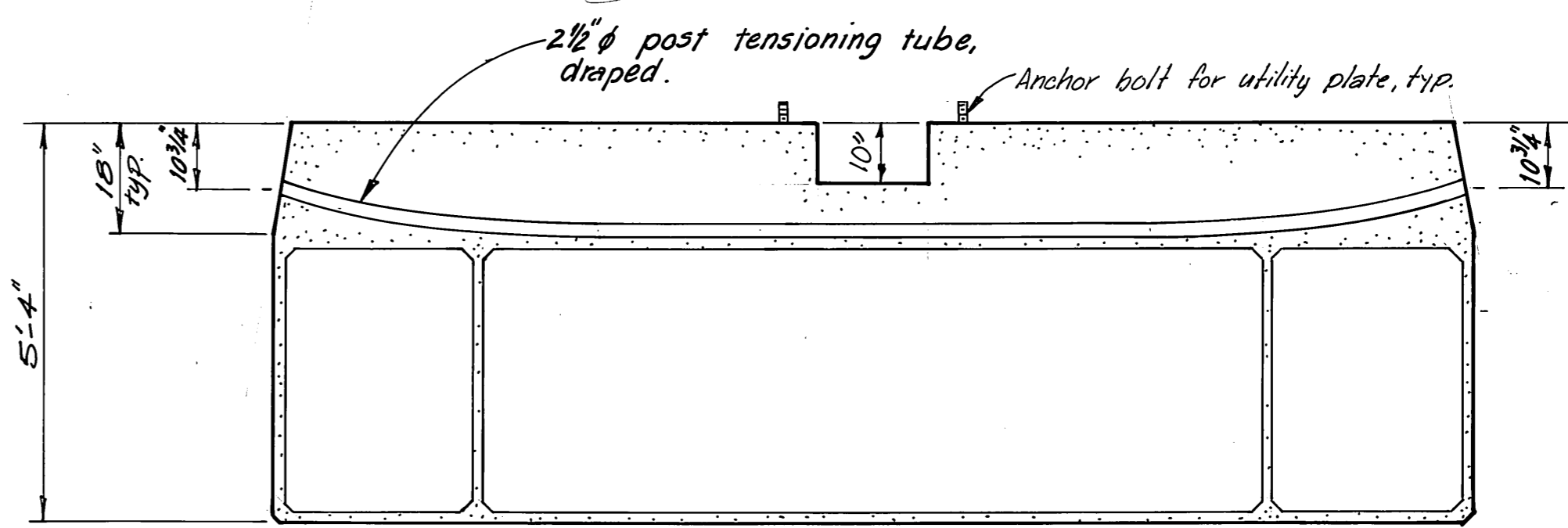
PLAN



SECTION A-A
UNIT 1



PLAN

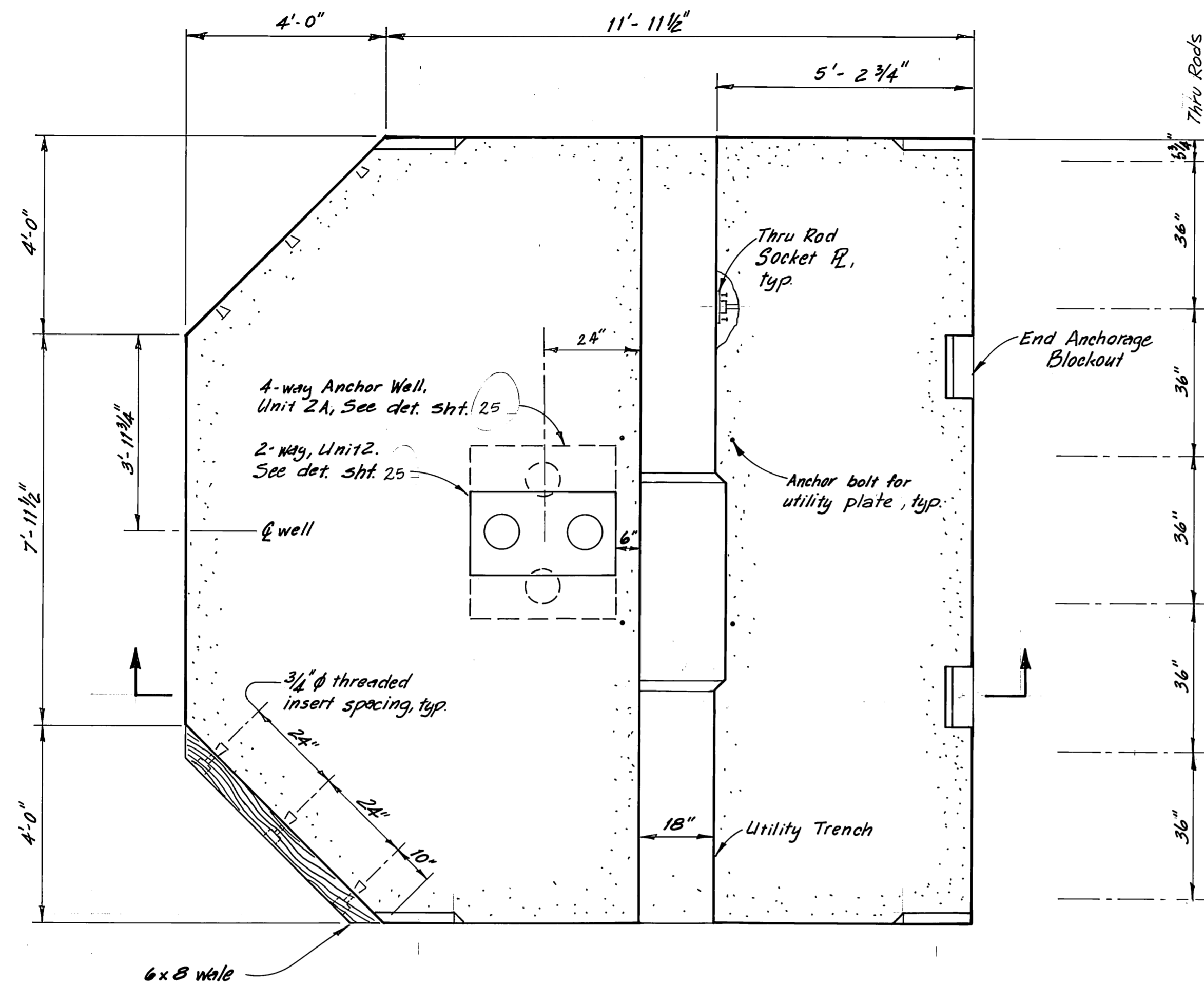


SECTION B-B
UNIT 3

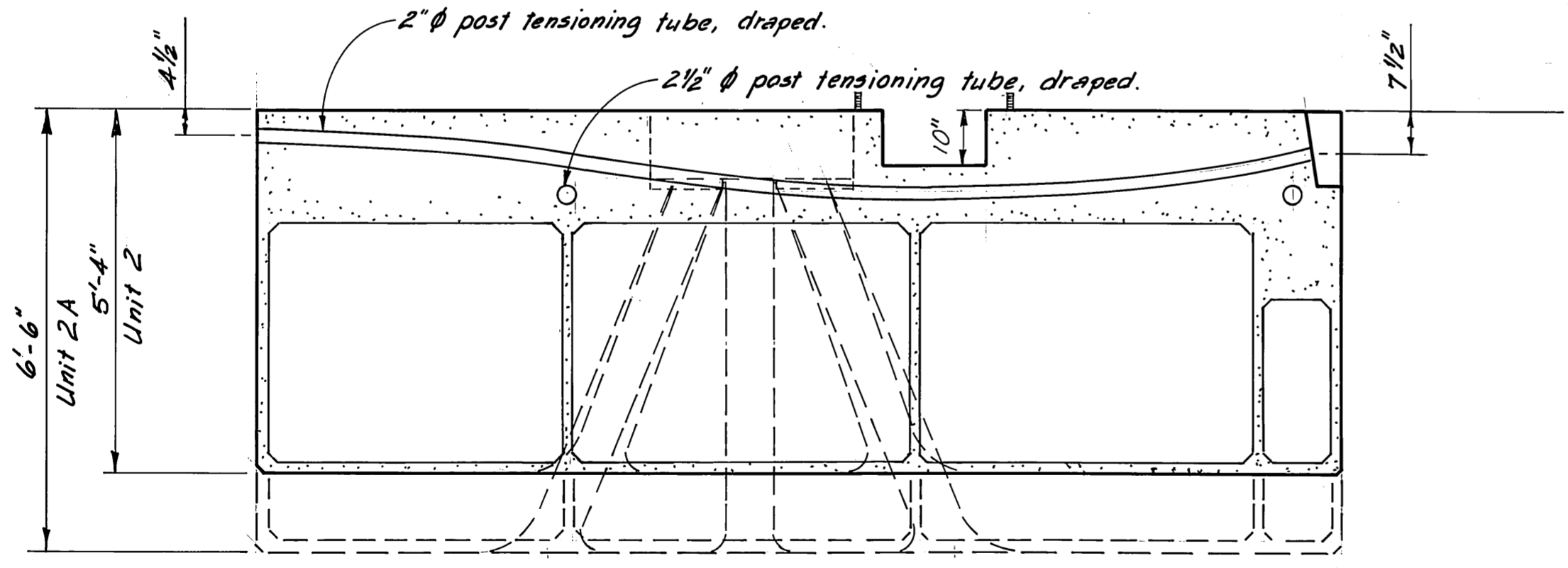
NOTE: All dimensions are subject to minor variations.

M.H.
10/3/87

STAMP		DO NOT SCALE THIS DRAWING - USE DIMENSIONS	
		STATE OF ALASKA DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES DESIGN AND CONSTRUCTION	
		Auke Bay Alaska	
		UNIT 1 & 3 AS FABRICATED	
SCALE 1/2" = 1'-0"	SURVEYED	APPROVED	
DESIGNED JDB	DRAWN DB		
CHECKED	DATE 11-85		
PROJECT NUMBER 67664, 67016, 67106	SHEET 13 OF 49		

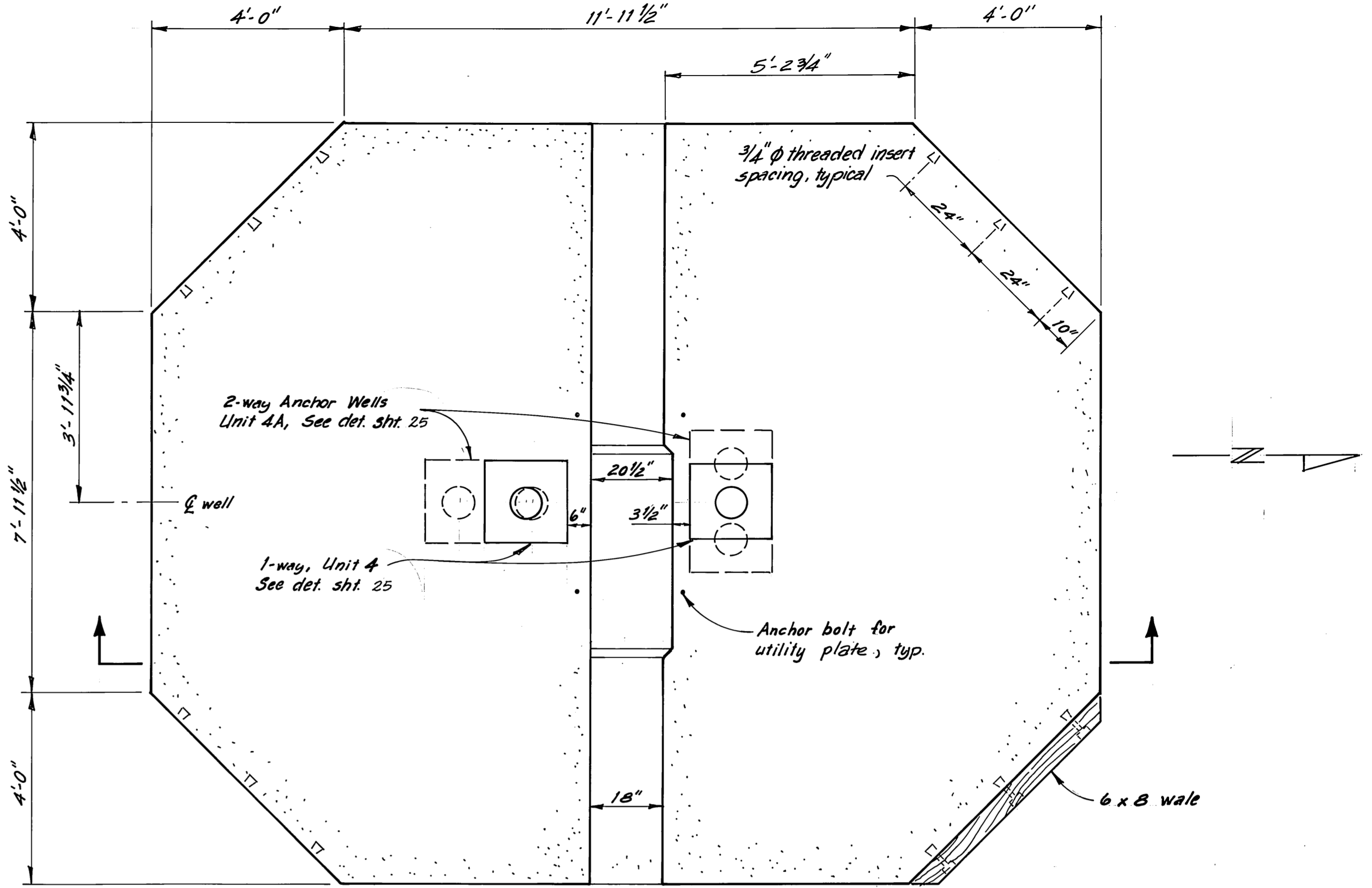


PLAN

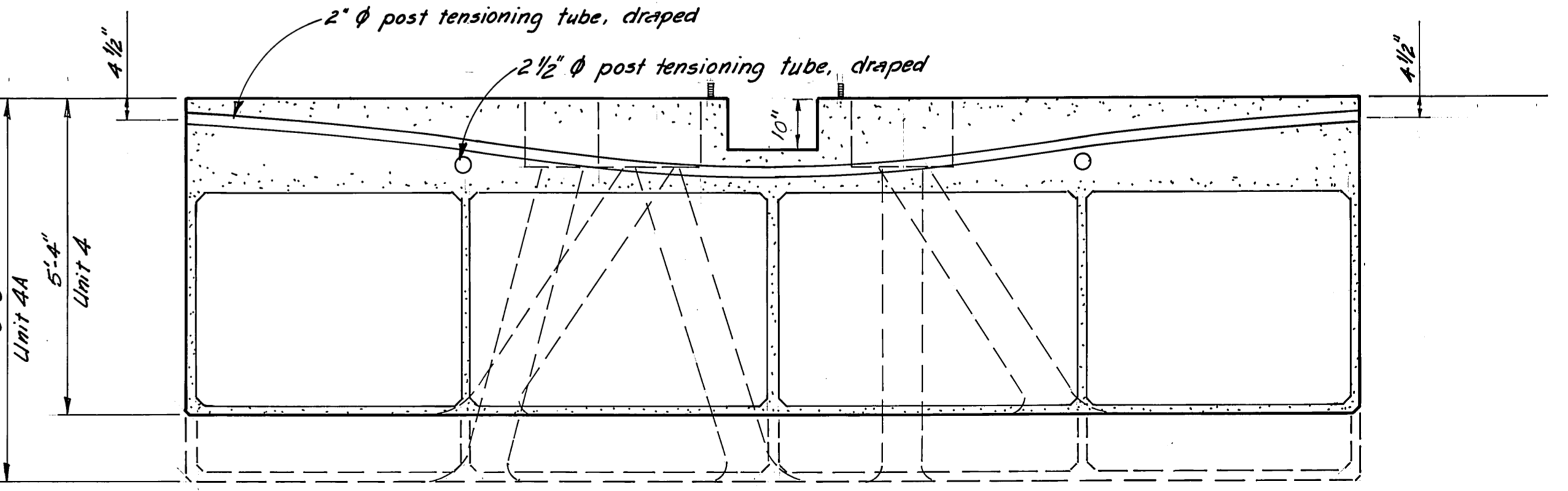


SECTION

UNITS 2 & 2A



PLAN



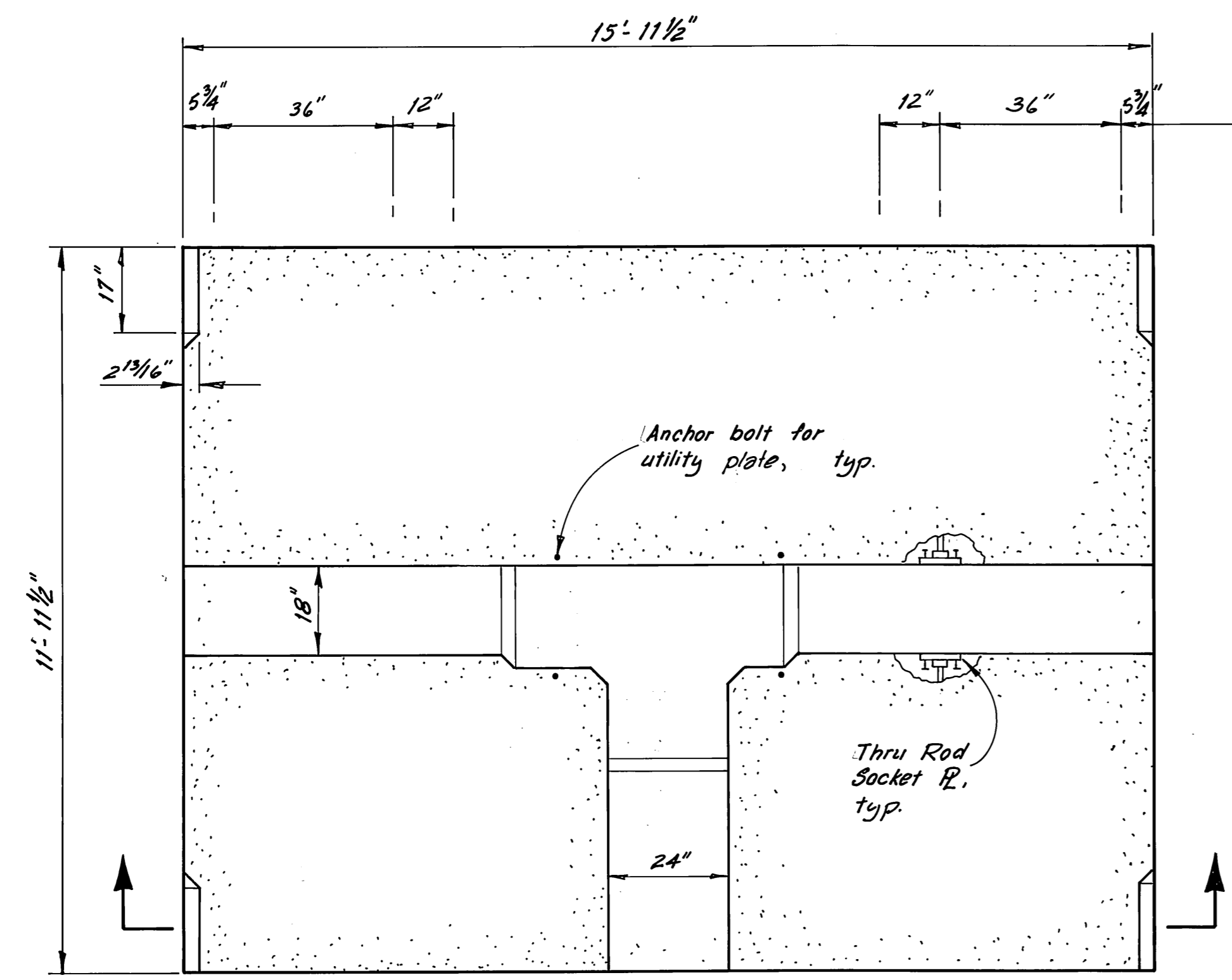
SECTION

UNITS 4 & 4A

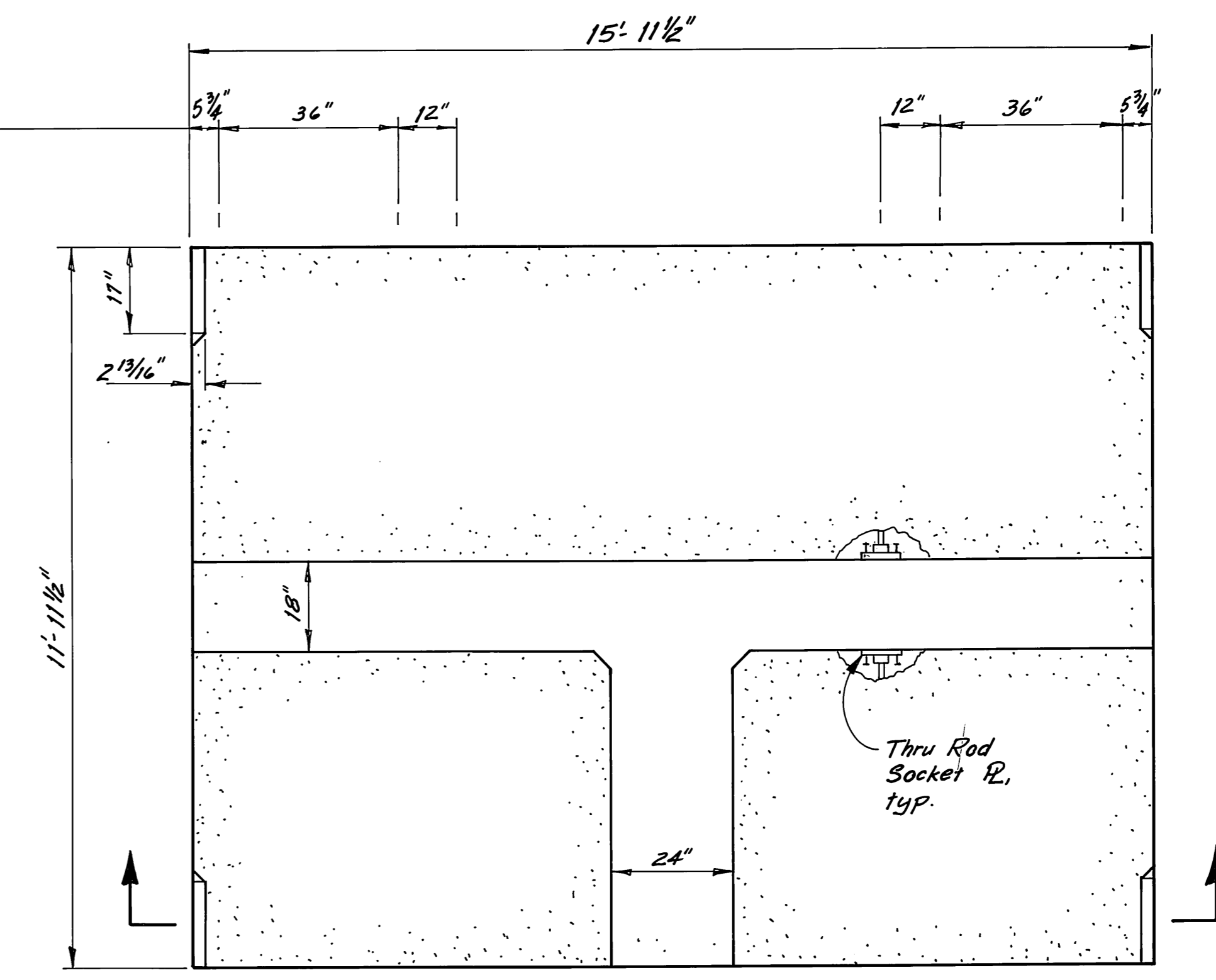
NOTE: Dimensions shown are subject to minor variations.

M.H.
10/3/87

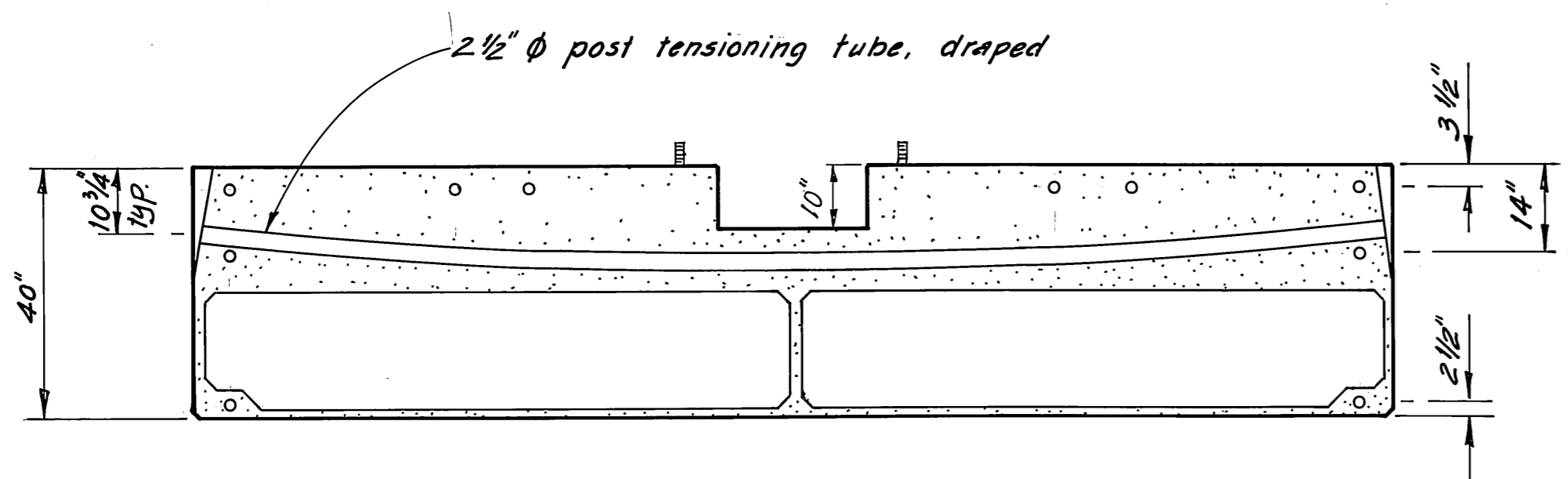
STAMP		DO NOT SCALE THIS DRAWING - USE DIMENSIONS	
		STATE OF ALASKA DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES DESIGN AND CONSTRUCTION	
		Auke Bay Alaska	
		UNITS 2, 2A, 4 & 4A AS FABRICATED	
SCALE 1/2" = 1'-0"	SURVEYED	APPROVED	
DESIGNED JDB	DRAWN DB		
CHECKED	DATE		
PROJECT NUMBER 67664, 69016, 69106			SHEET 14 OF 49



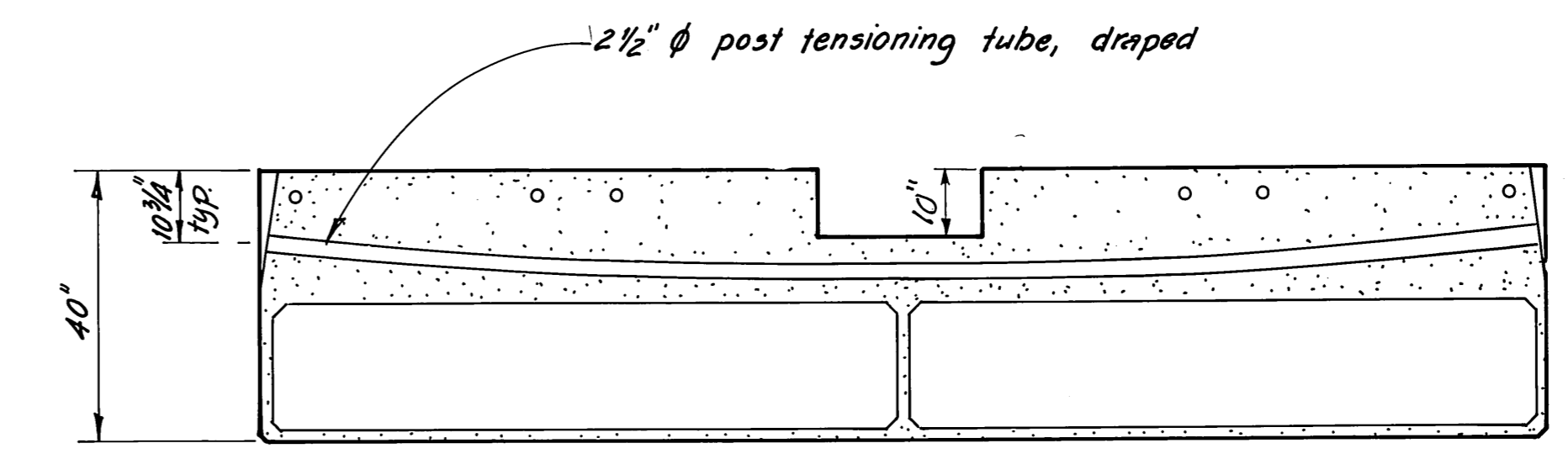
PLAN



PLAN



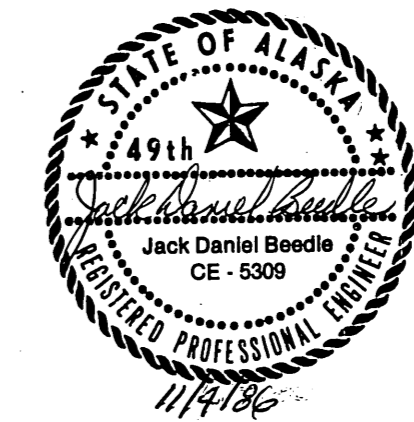
SECTION
UNIT 5



SECTION
UNIT 5A

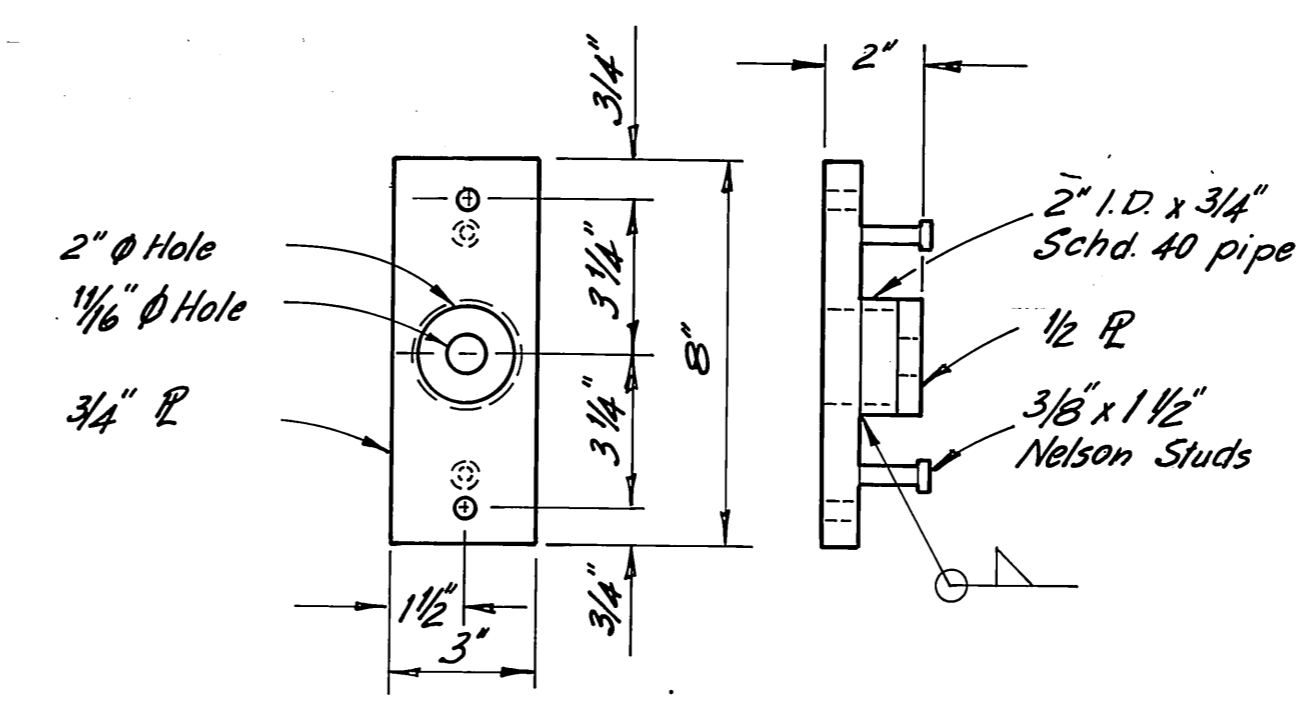
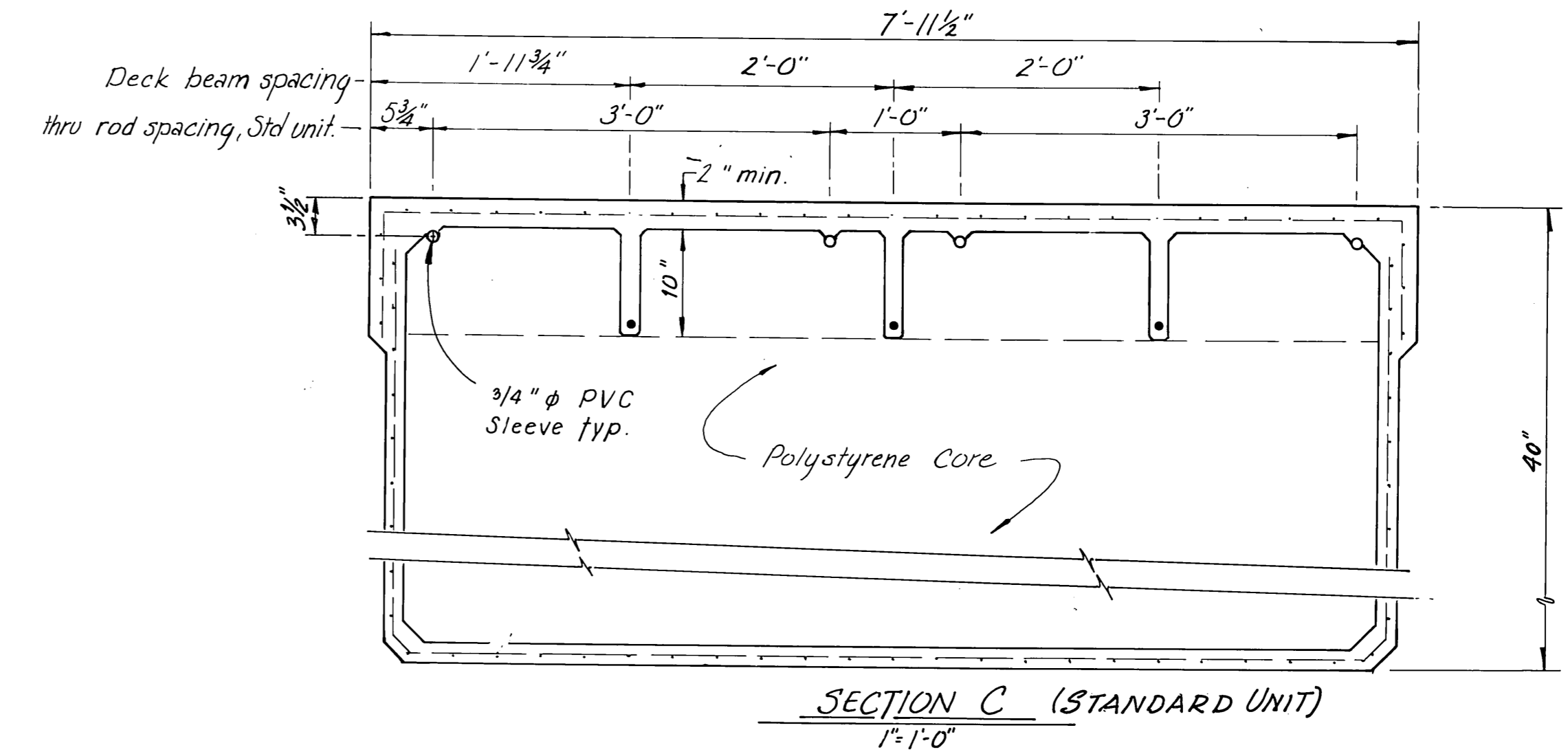
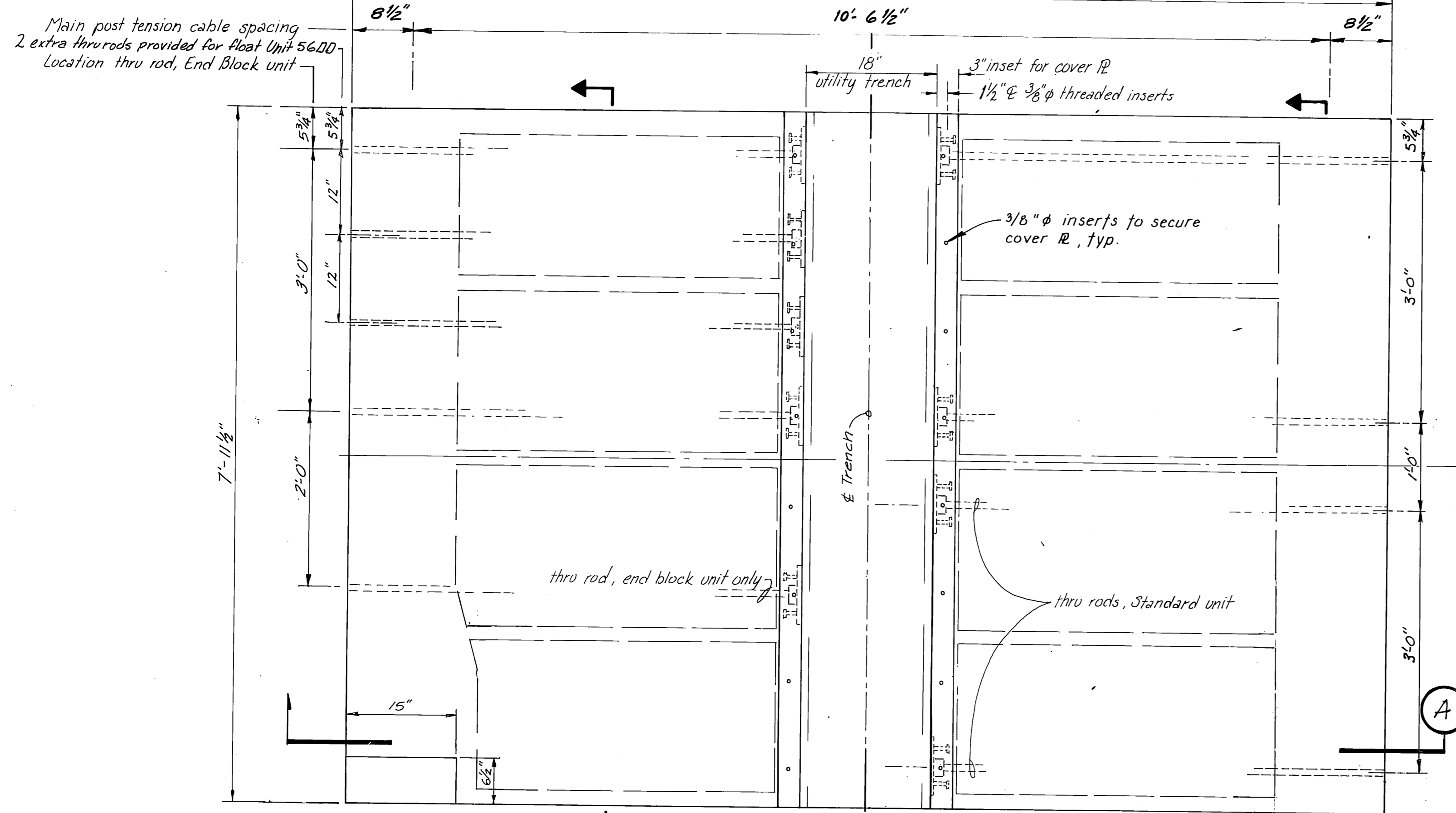
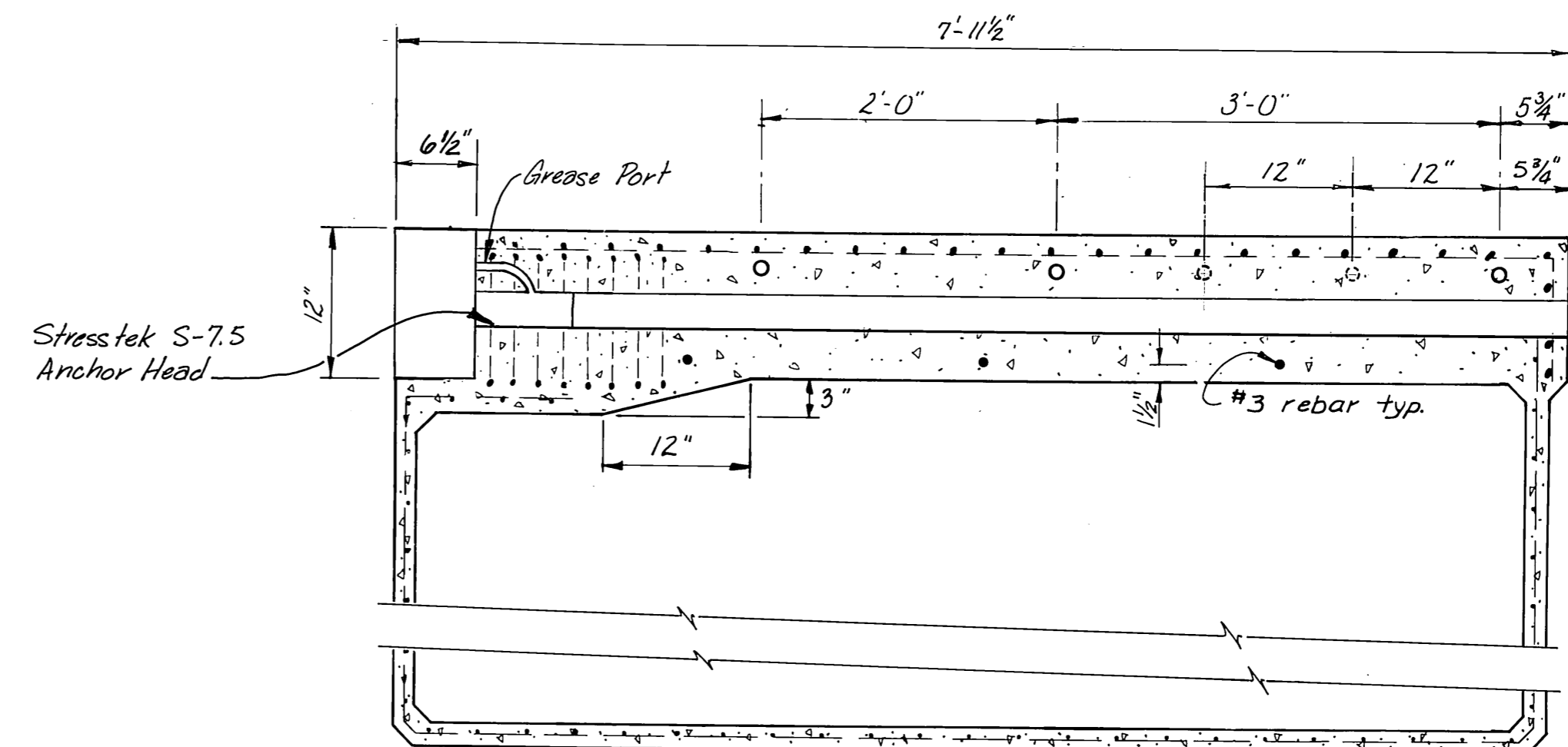
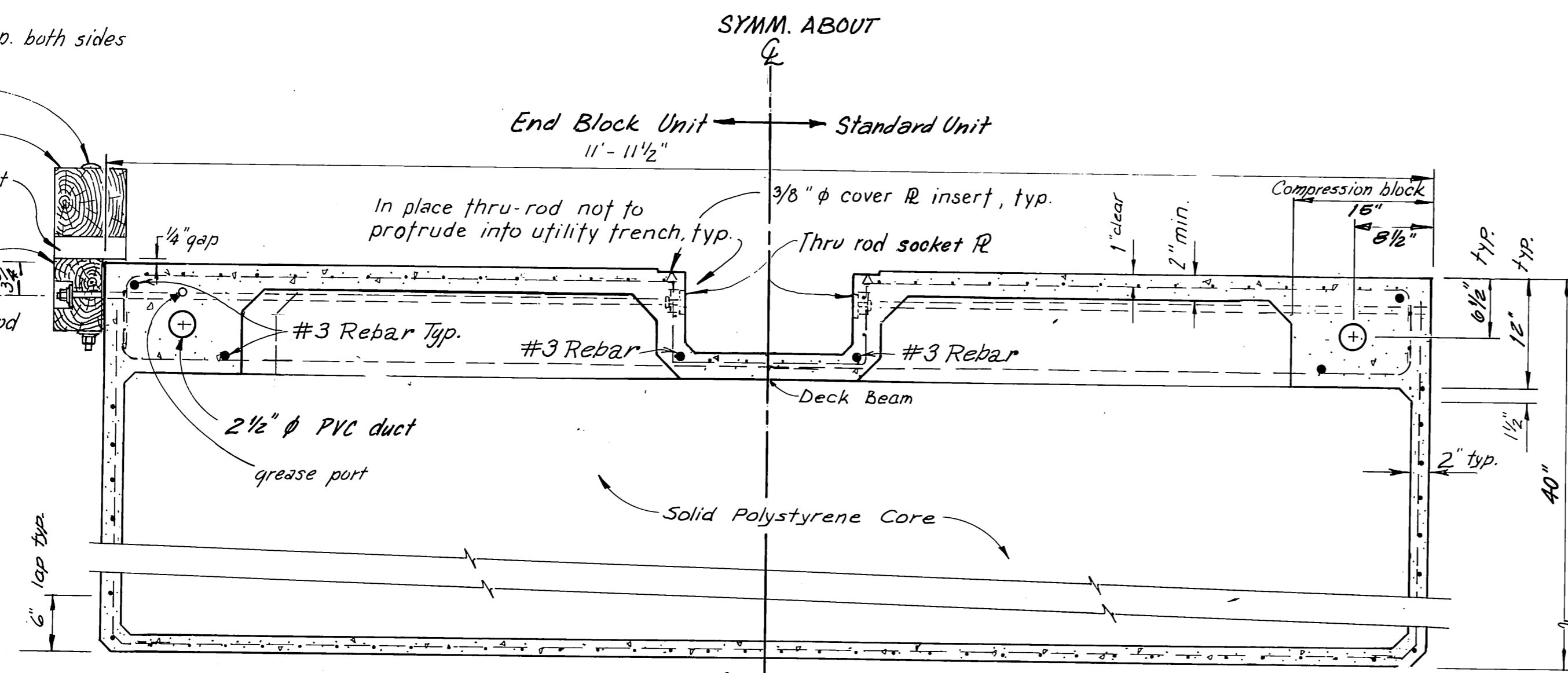
NOTE: Dimensions shown are subject to minor variations.

M.H.
10/3/87

STAMP		DO NOT SCALE THIS DRAWING - USE DIMENSIONS	
		STATE OF ALASKA DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES DESIGN AND CONSTRUCTION	
		Auke Bay	Alaska
		UNITS 5 & 5A AS FABRICATED	
SCALE $\frac{1}{2}'' = 1'-0''$	SURVEYED	APPROVED	
DESIGNED <i>JDB</i>	DRAWN <i>DB</i>		
CHECKED <i>J</i>	DATE 11-85		
PROJECT NUMBER 67664, 67016, 67106	SHEET 15 OF 49		

To Be Attached:
Tie down rail & wale typ. both sides

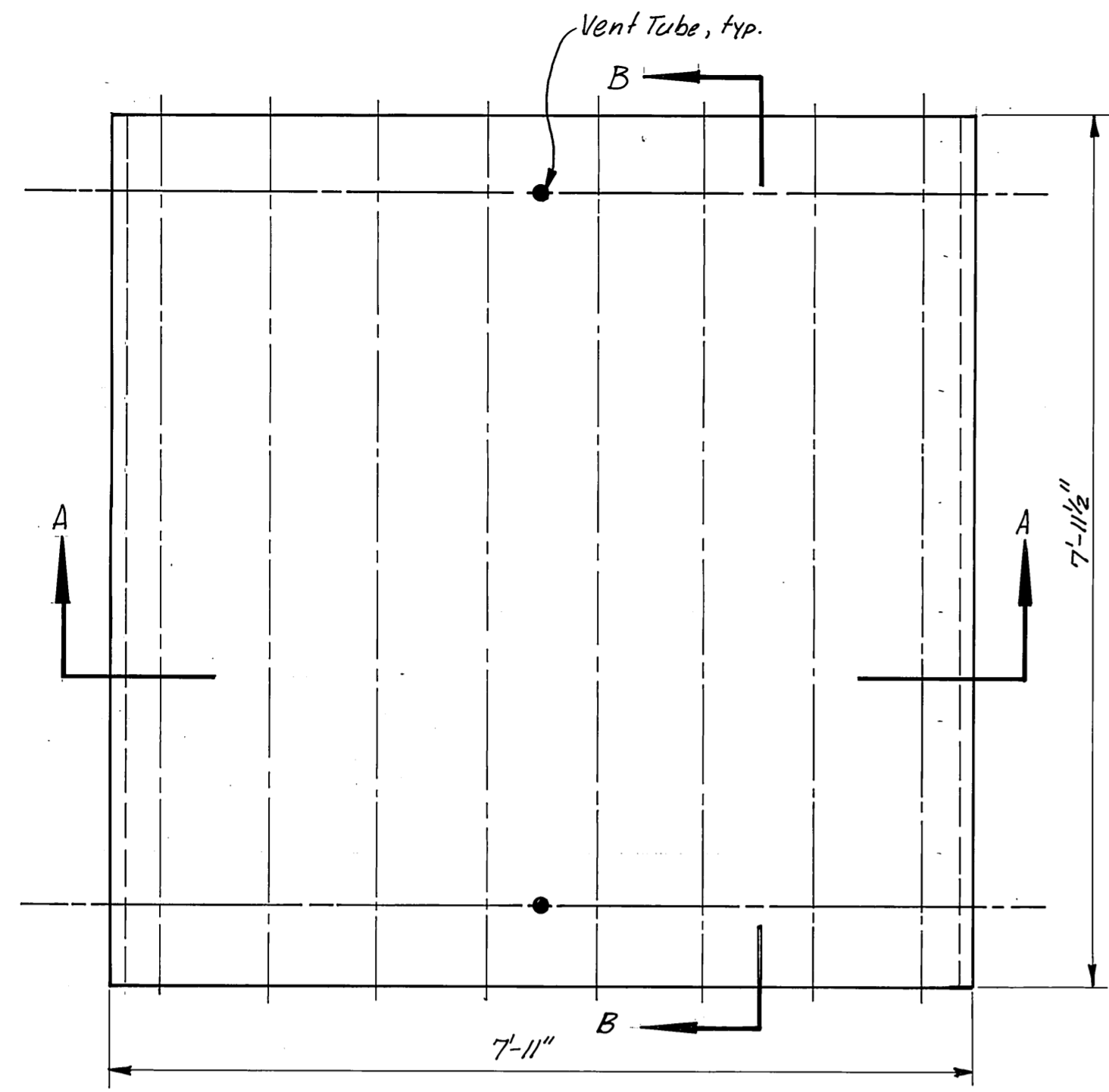
- 3/4" econ. hd. bolt
- 8"x8" tie down rail
- 4"x8"x1'-0" blocking @ bolt
- 6"x8" wale w/ 3" C-bore for thru rod, nut & M1 washer



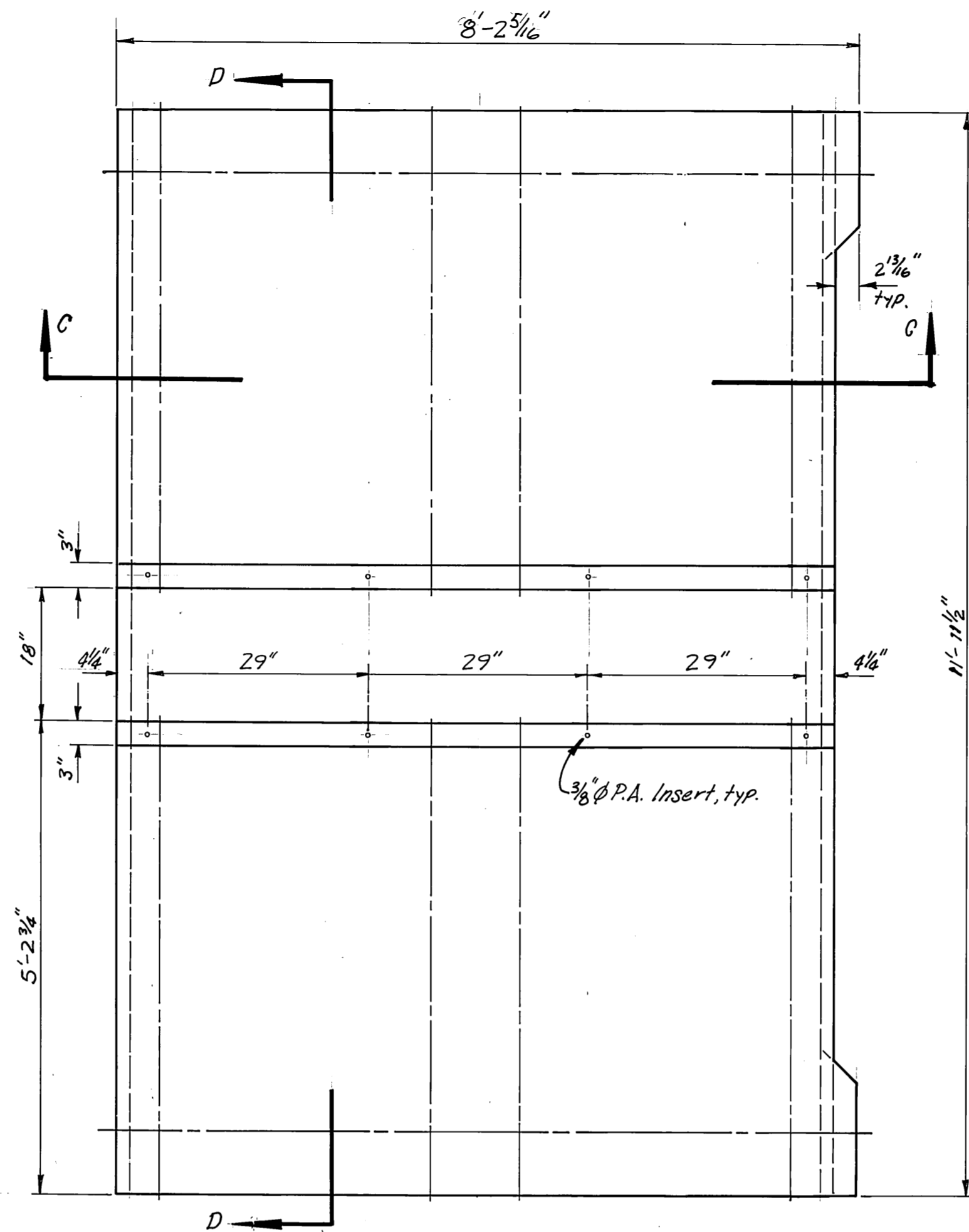
- Notes:
- End block knockouts to be grouted flush with end of float after completion of tensioning.
 - Size and location of utility trench is different for the Coast Guard float.
 - Intermediate grease port access and vent reliefs have been provided to allow injection of lubricant around tensioning strands. See locations sht. 11 & 12.
 - 15 Units with an offset trench for USCG float, see sht. 13. Unit 1 dimensions for aligning trench.

STAMP		DO NOT SCALE THIS DRAWING - USE DIMENSIONS	
		STATE OF ALASKA DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES DESIGN AND CONSTRUCTION	
		Auke Bay Alaska TYPICAL 8x12 POST-TENSIONED FLOAT UNIT AS FABRICATED.	
SCALE: As Shown	DESIGNED: JDB	SURVEYED: RJT/WN	APPROVED:
CHECKED: [initials]	DATE: 11-85		
PROJECT NUMBER: 676CA, 69016, 69106	SHEET 17 OF 49		

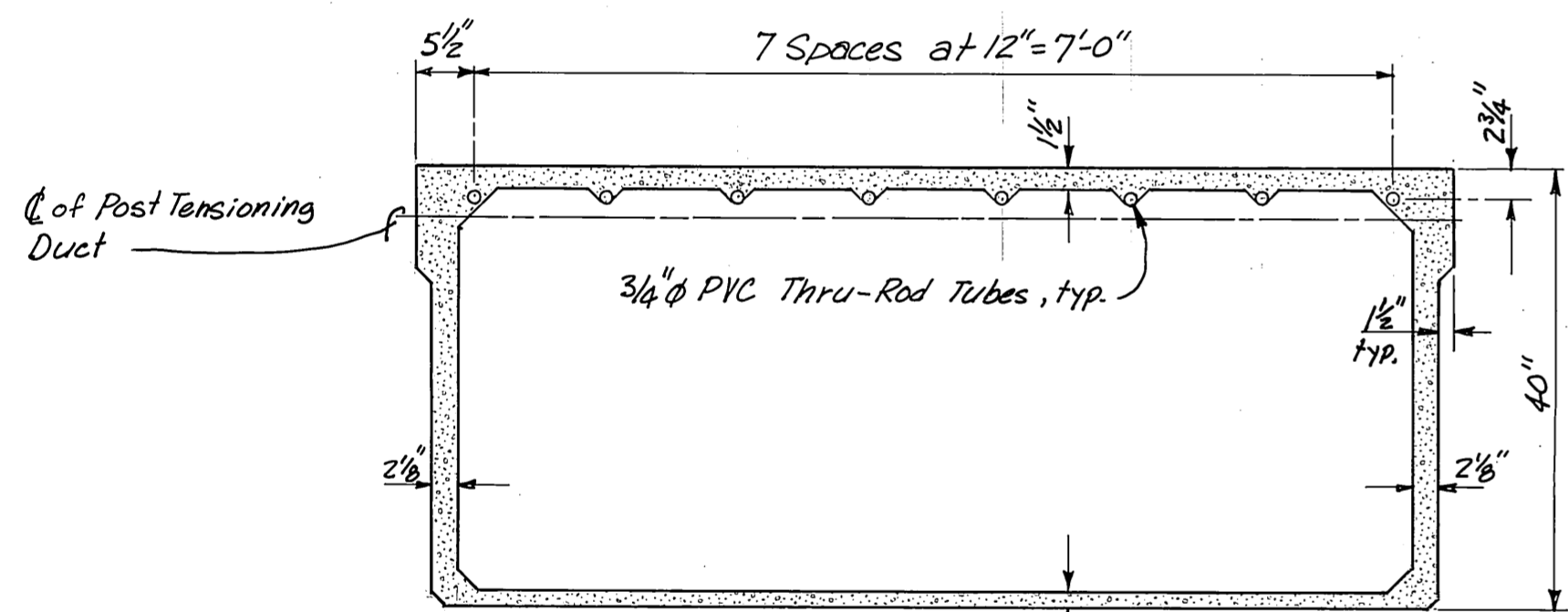
M.H.
10/3/87



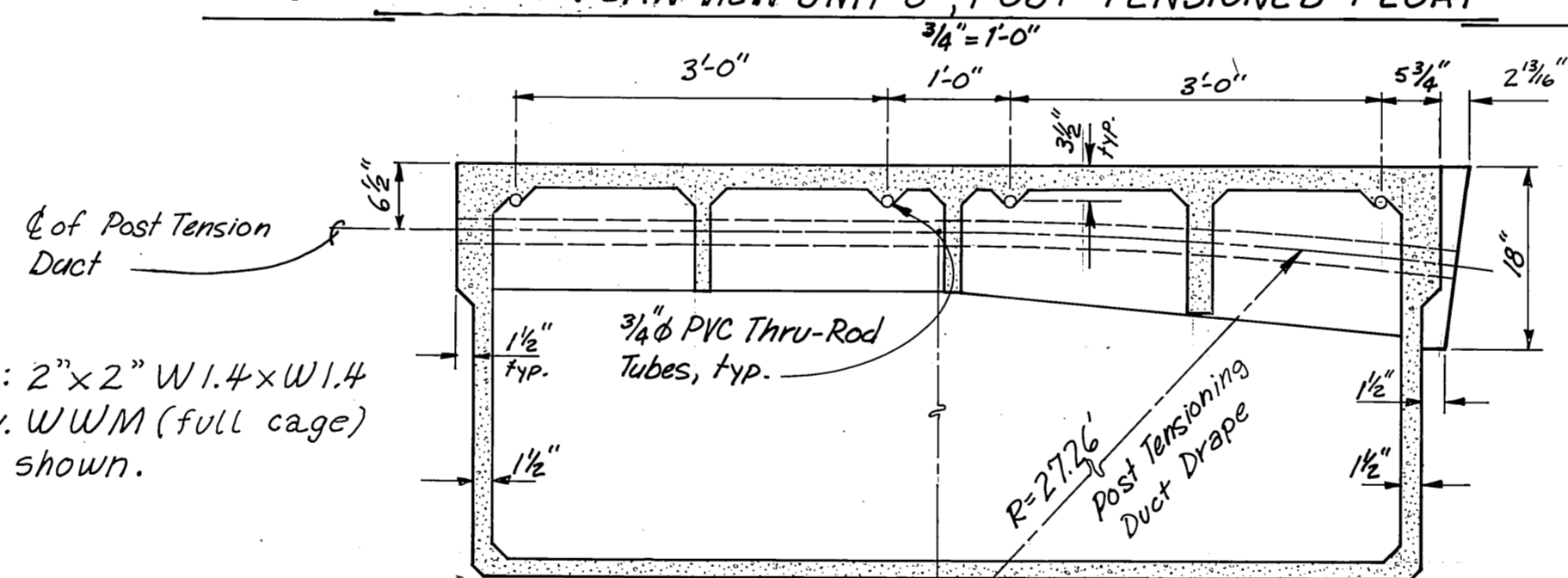
PLAN VIEW 8'x8'x40" Deep, POST TENSIONED FLOAT
3/4" = 1'-0"



PLAN VIEW UNIT 8, POST TENSIONED FLOAT

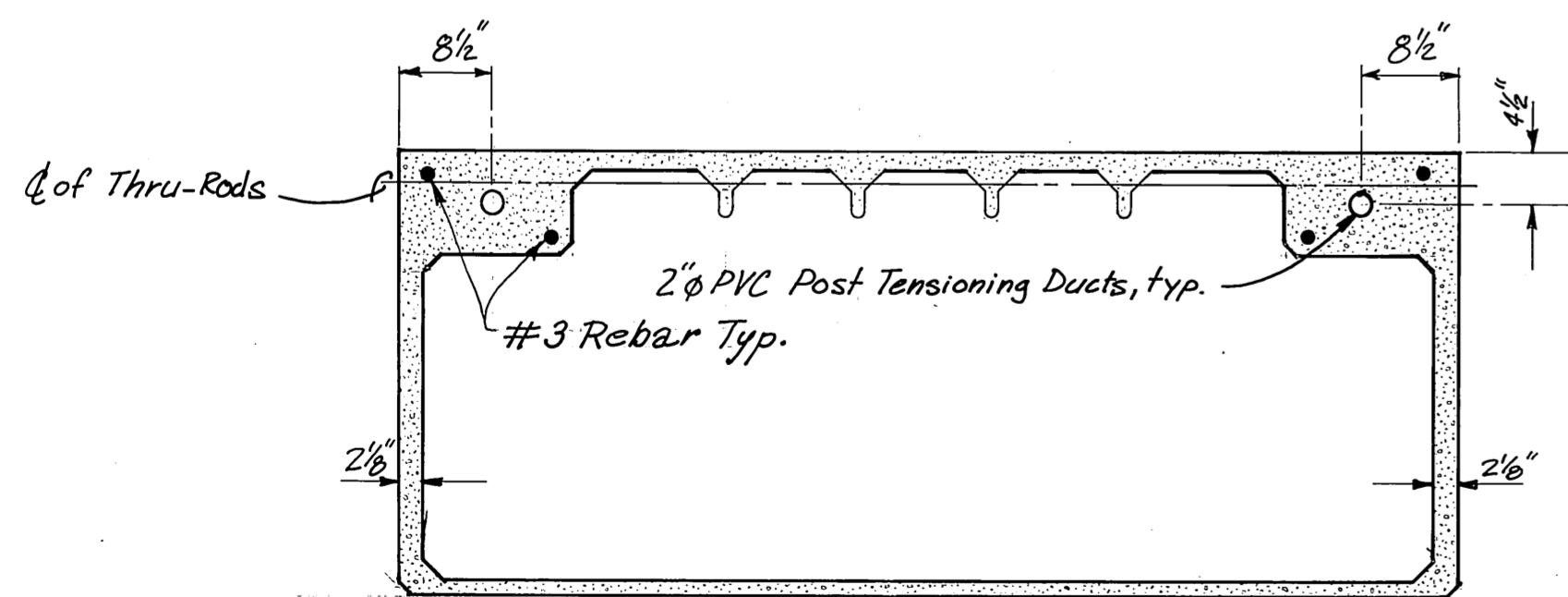


SECTION A-A
3/4" = 1'-0"

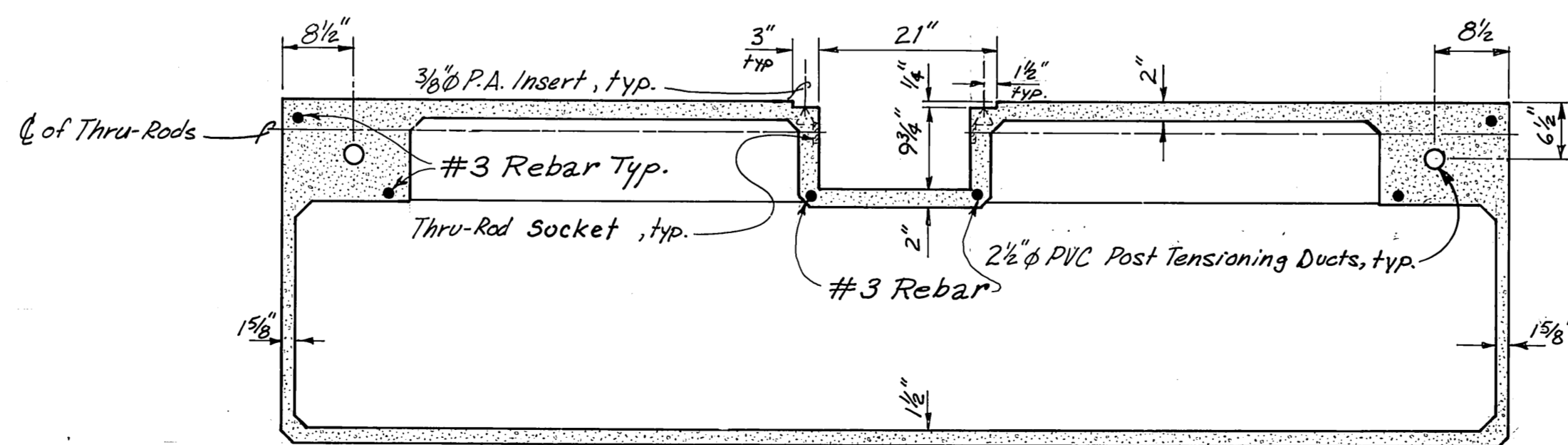


SECTION C-C
3/4" = 1'-0"

Note: 2"x2" W1.4xW1.4 Galv. WWM (full cage) not shown.



SECTION B-B
3/4" = 1'-0"

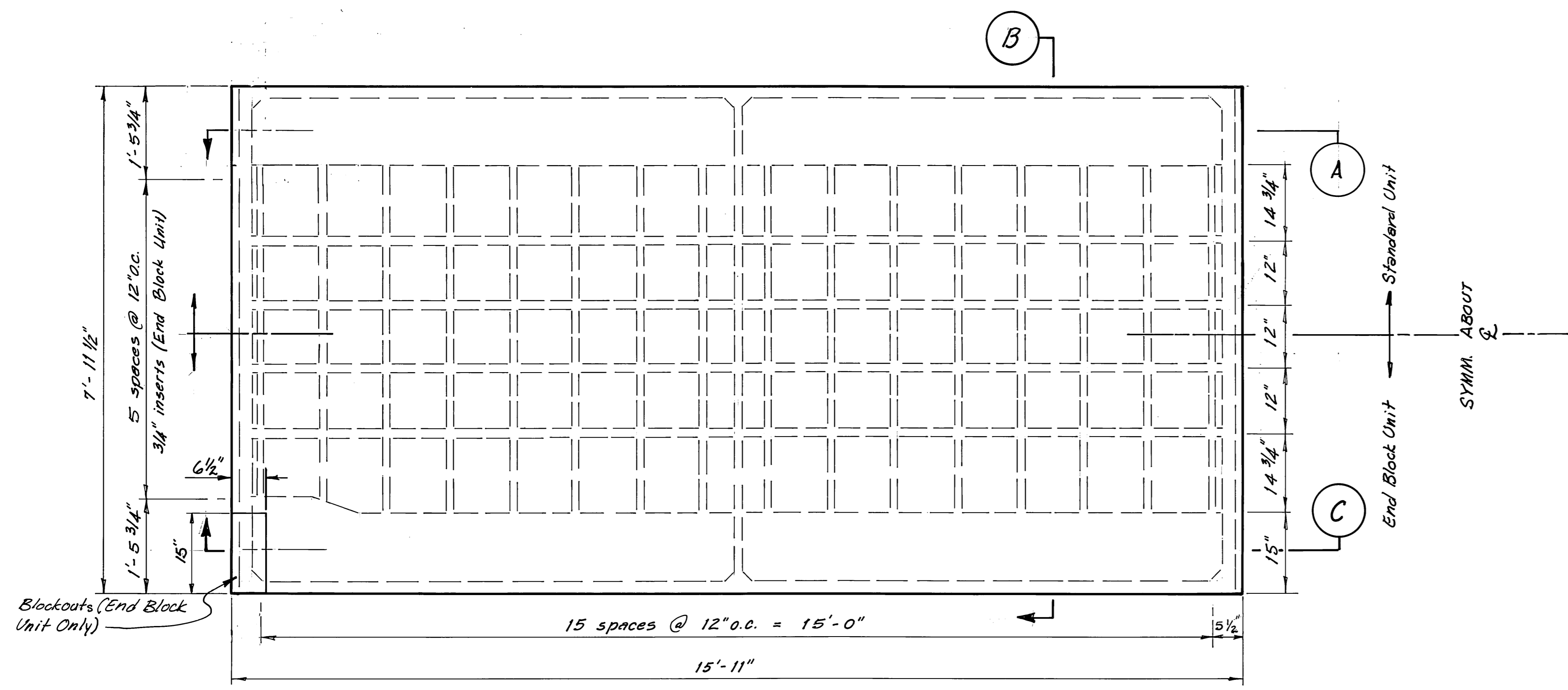


SECTION D-D
3/4" = 1'-0"

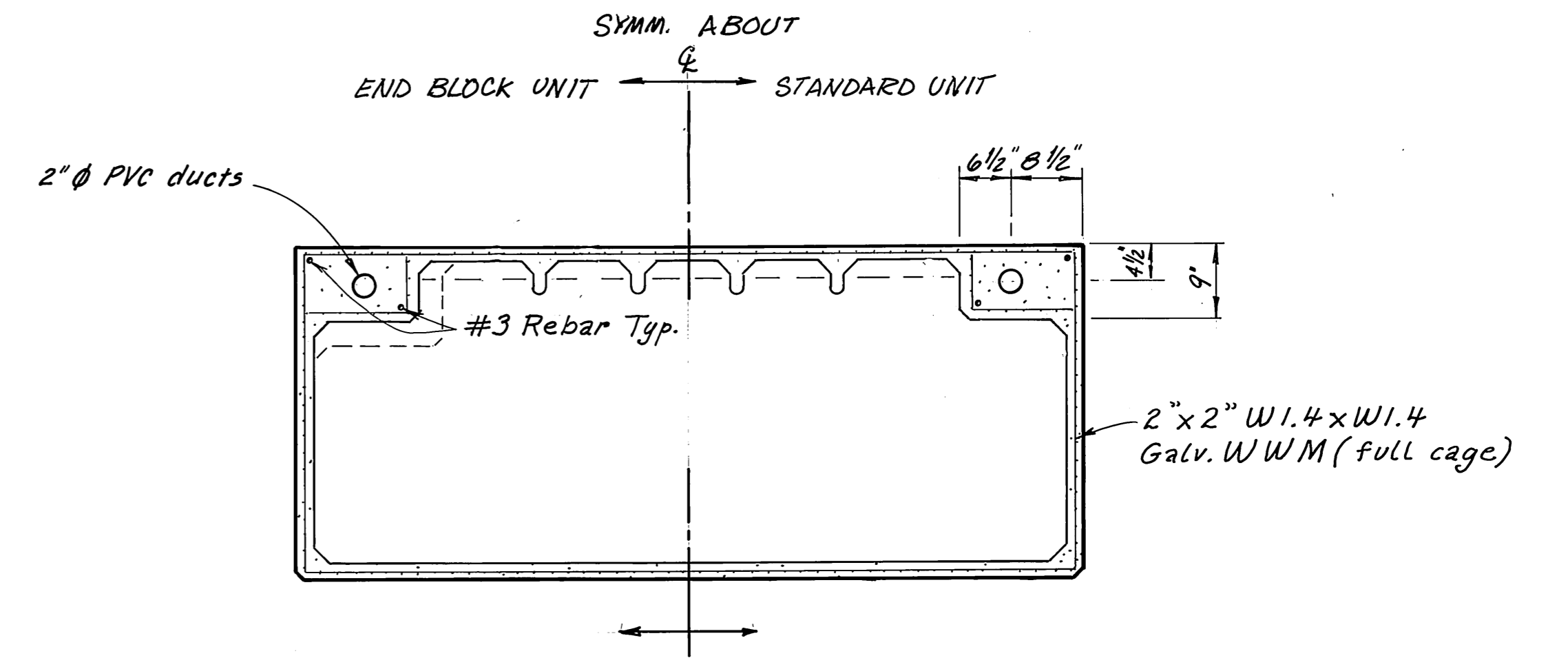
NOTE: Dimensions shown are subject to minor variations.

STAMP		DO NOT SCALE THIS DRAWING - USE DIMENSIONS	
		STATE OF ALASKA	
		DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES	
Alaska Bay		Alaska	
AS FABRICATED			
8'x8' UNIT & UNIT 8 DETAILS			
DESIGNED JDB	CHECKED [Signature]	DRAWN DJM	DATE 11-85
PROJECT NUMBER 67664, 69016, 69106	SHEET 18		OF 49

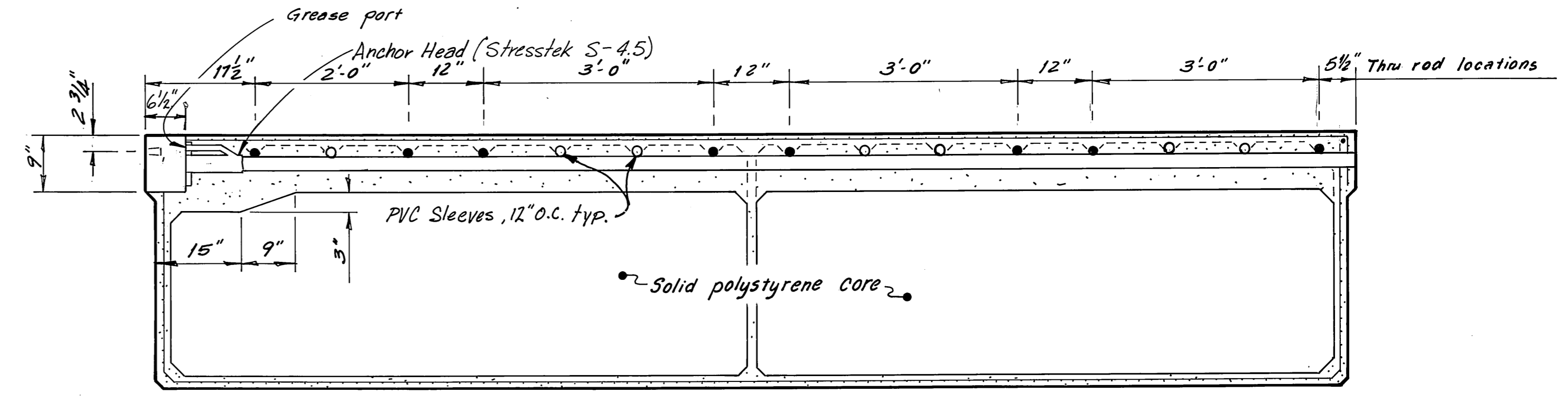
M.H.
10/3/87



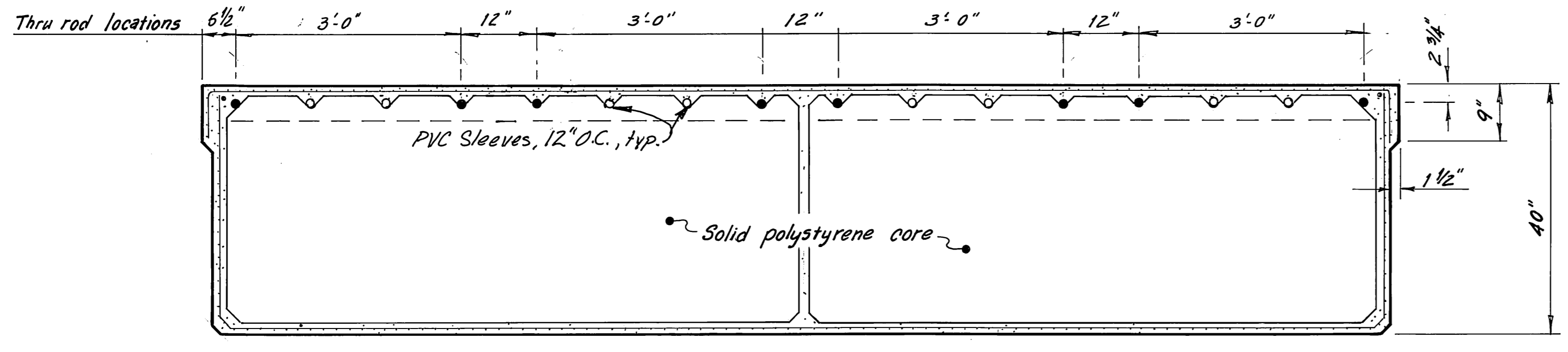
PLAN
TYPICAL 8'x16' POST TENSIONED FLOAT UNIT



SECTION B



SECTION C (END BLOCK UNIT)

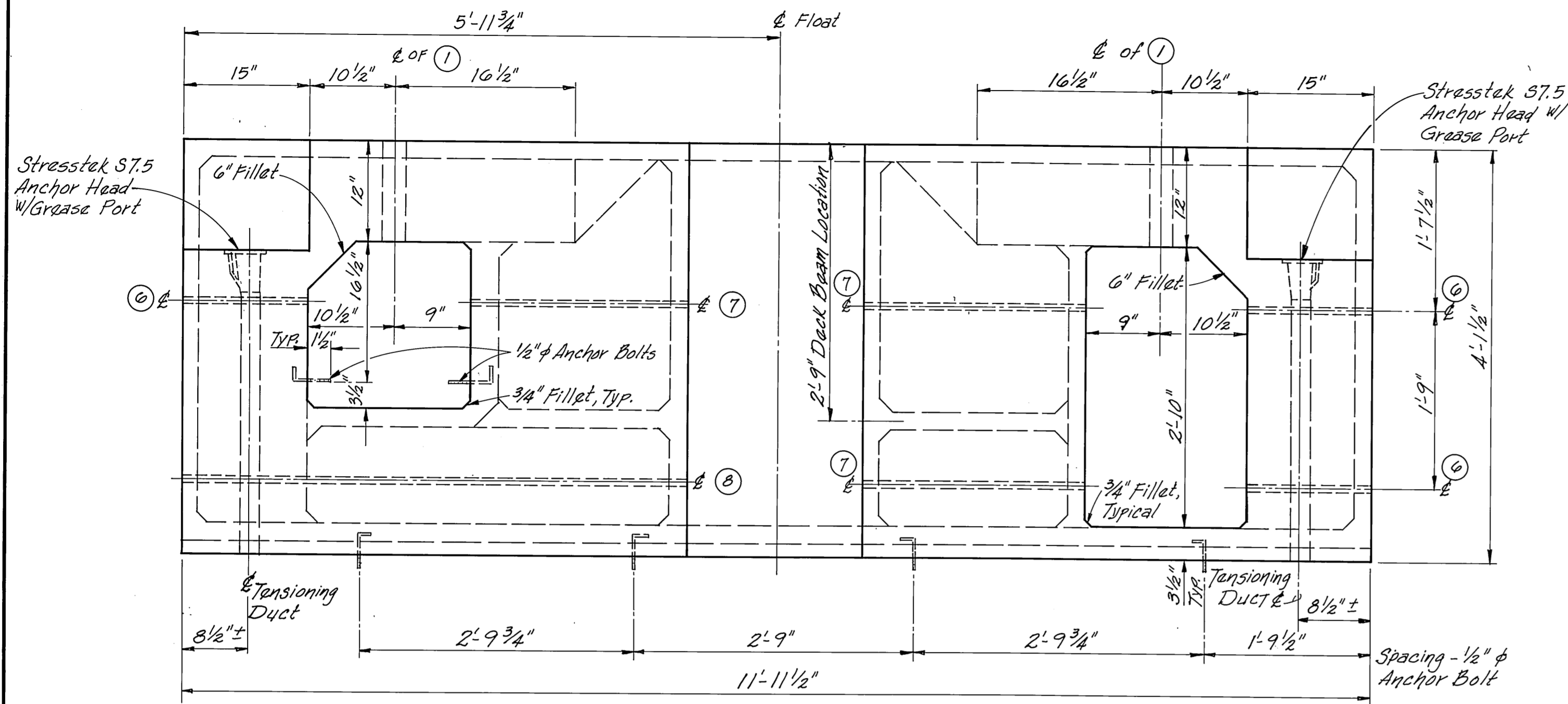


SECTION A (ST'D UNIT)

NOTE: Dimensions shown are subject to minor variation.

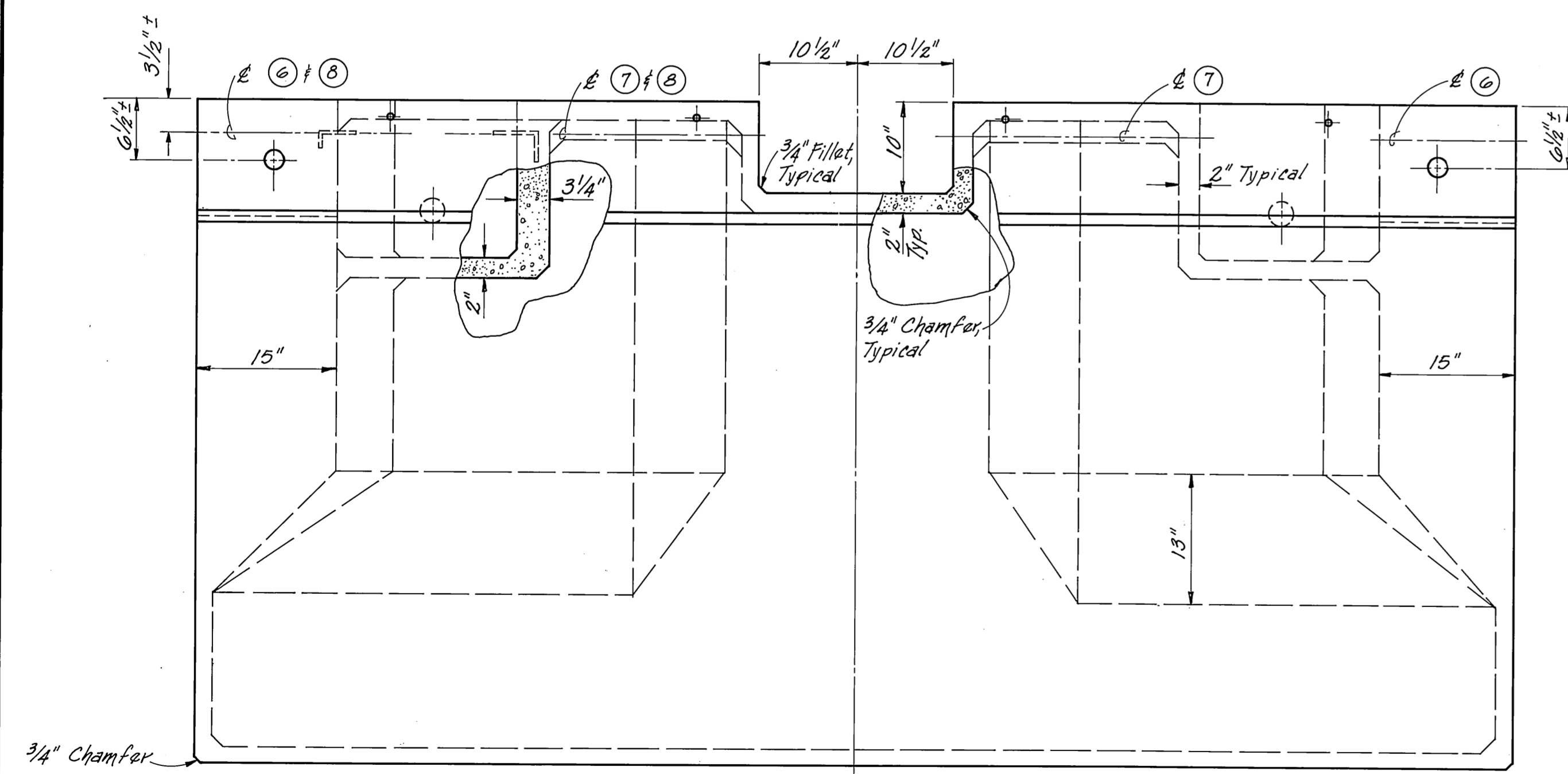
M.H.
10/3/87

STAMP		DO NOT SCALE THIS DRAWING - USE DIMENSIONS	
		STATE OF ALASKA DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES DESIGN AND CONSTRUCTION	
		Anake Bay, Alaska TYPICAL 8x16 POST TENSIONED FLOAT UNIT AS FABRICATED	
SCALE 3/4" = 1'-0"	SURVEYED	APPROVED	
DESIGNED JDB	DRAWN DB		
CHECKED H	DATE 11-85		
PROJECT NUMBER 67664, 69016, 69106	SHEET 19 OF 49		



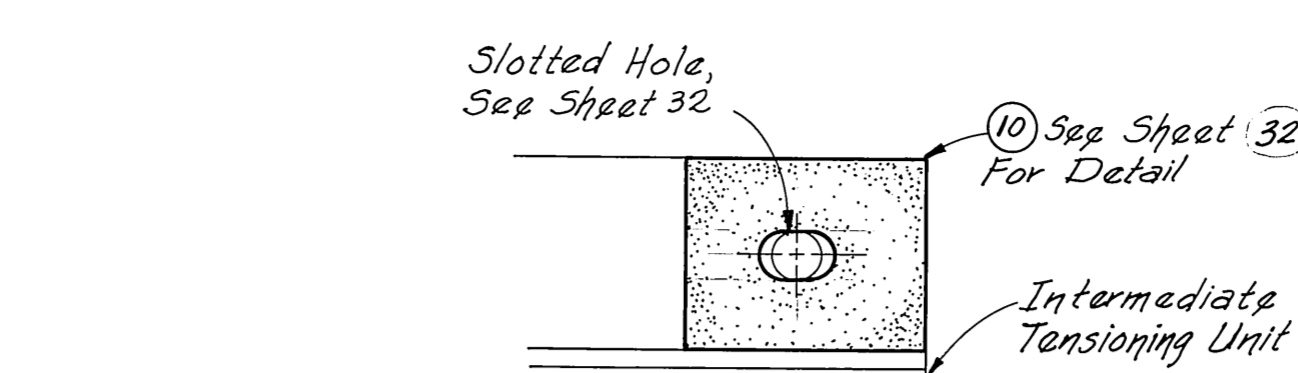
PLAN

1" = 1'-0"



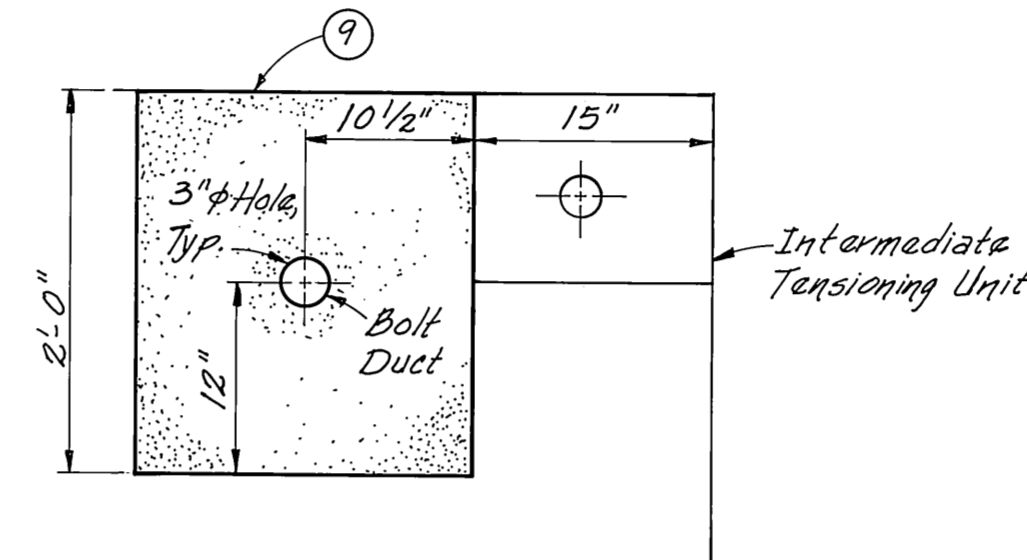
ELEVATION

1" = 1'-0"



TENSIONING DUCT PAD DETAIL

1" = 1'-0"

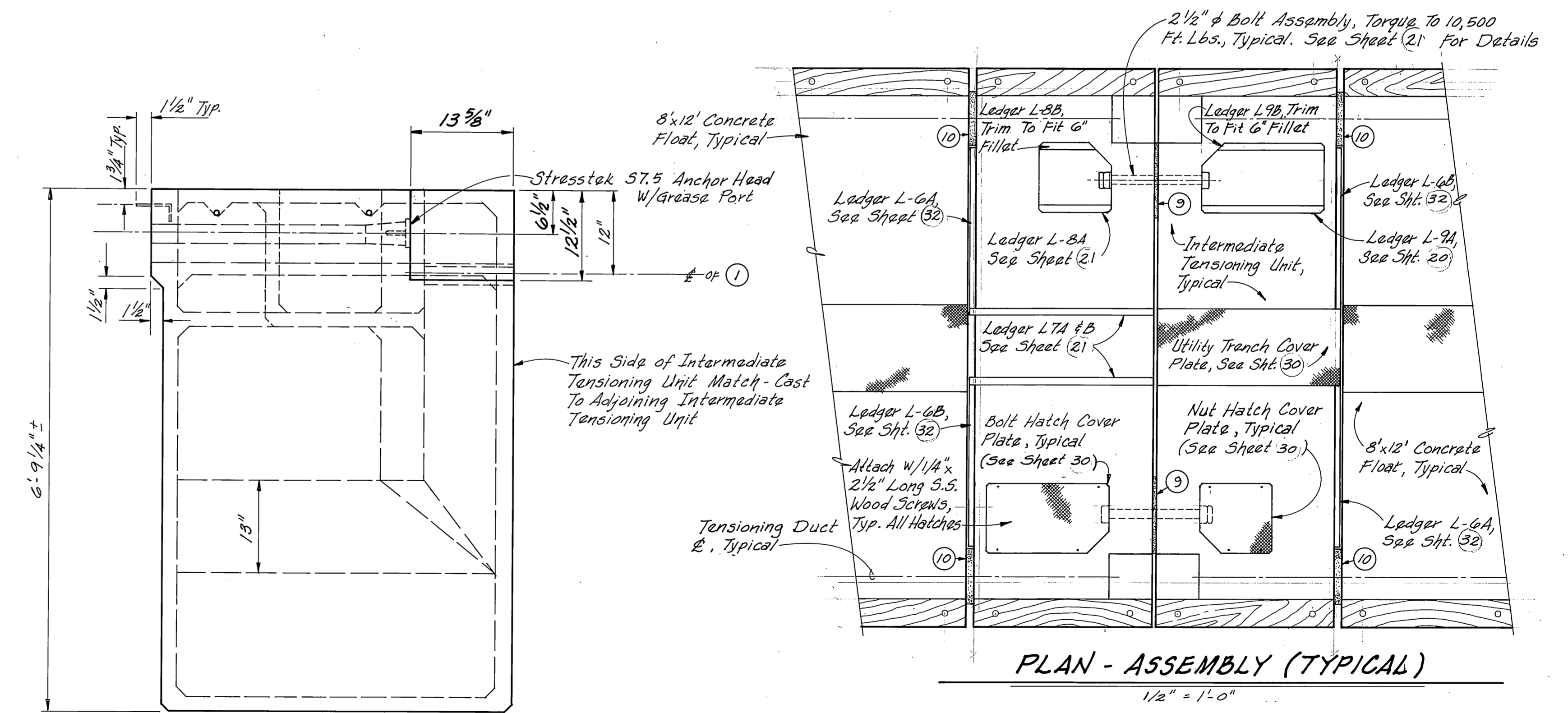


CONNECTING BOLT PAD DETAIL

1" = 1'-0"

NUMBER	DESCRIPTION - MATERIALS TO BE PROVIDED THIS CONTRACT
①	2 1/2" φ x 3" Hex. Head Bolt, A325
②	2 1/2" φ Heavy Hex Nut w/ Washer Face
③	2 1/2" φ Heavy Hex Jam Nut
④	8" x 8" x 3/4" R Washer, w/ 2 3/8" φ Hole For 2 1/2" φ Bolt
⑤	1 1/2" O.D. w/ 2 3/8" φ I.D. x 1/8" R Washer
⑥	Thru Rod, 5/8" φ x 23 3/8" x 1 1/2" Thread At End of Rod w/ MI Washer & Nut
⑦	Thru Rod, 3/8" φ x 32" x 1 1/2" Thread At End of Rod w/ MI Washer & Nut
⑧	Thru Rod, 3/8" φ x 5'-9 3/8" x 1 1/2" Thread At End of Rod w/ MI Washer & Nut
⑨	2'-0" x 1'-9" x 1/2" Fabric Pad w/ 3" φ Hole For 2 1/2" φ Bolt
⑩	15" x 12" x 2 1/2" Fabric Pad w/ 3" φ Slotted Hole (See Sht. 32) For Pad Details.

- Notes:
1. All Steel parts Are To Be Hot Dipped Galvanized After Fabrication And Assembled To Assure Proper Fit.
 2. Bolt Hatches To Be Solidly Filled With Foam After Final Tensioning.
 3. Float Will Be Unstable In Water Prior To Tensioning.
 4. Timber, Cover Plates, Pads And Hardware To Be Fabricated And /or Supplied By Contractor This Contract. See Sheets 23, 29, 30 & 33.
 5. Dimensions to be field verified prior to use.



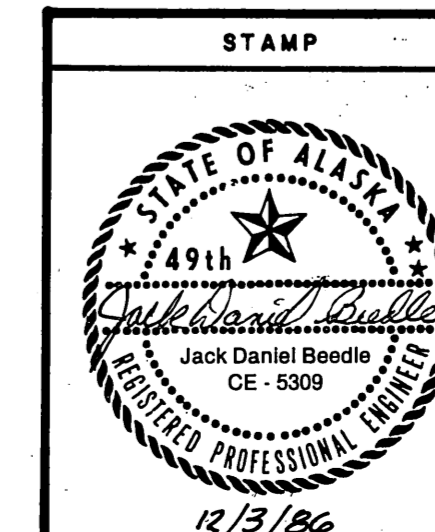
PLAN - ASSEMBLY (TYPICAL)

1/2" = 1'-0"

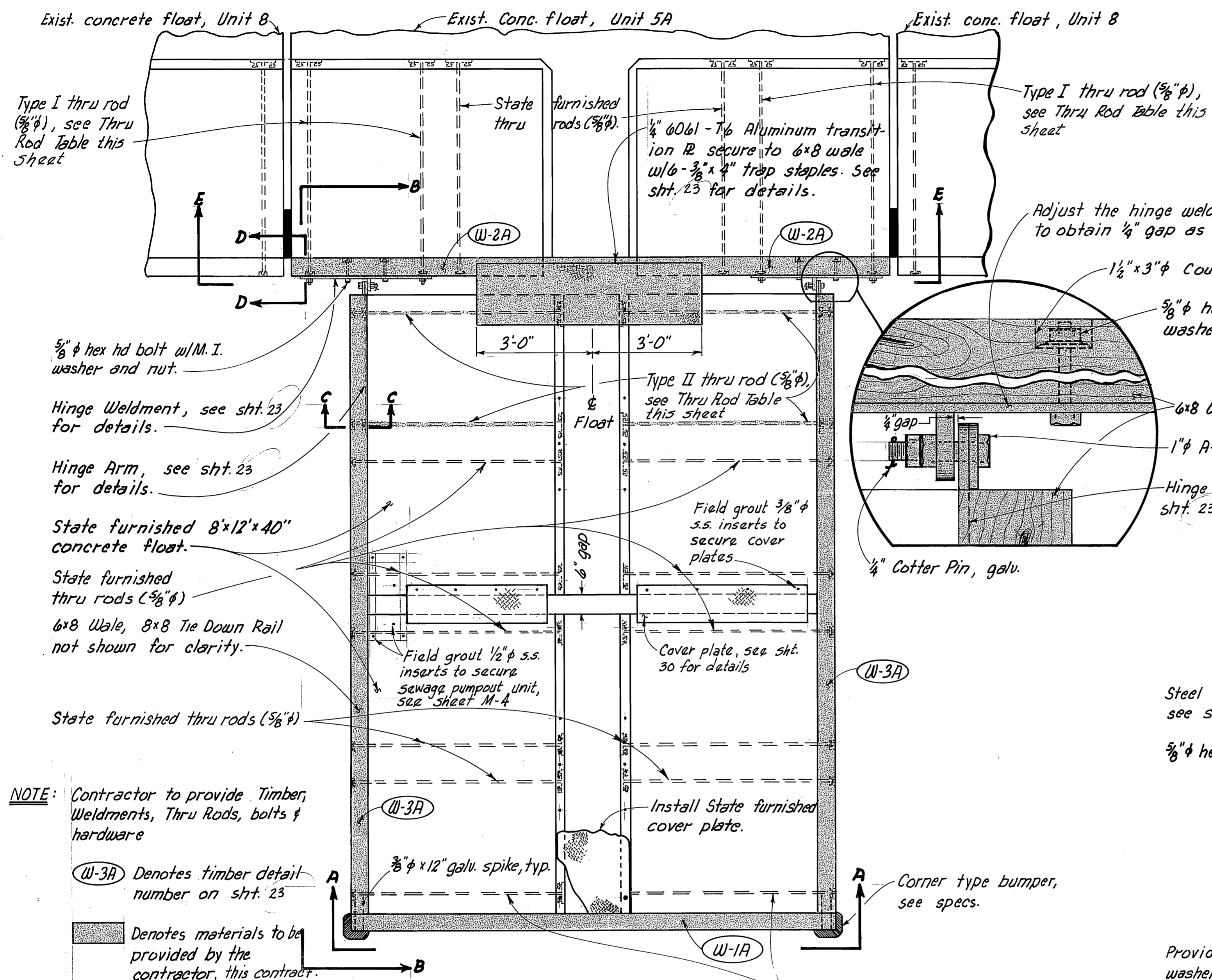
END

1" = 1'-0"

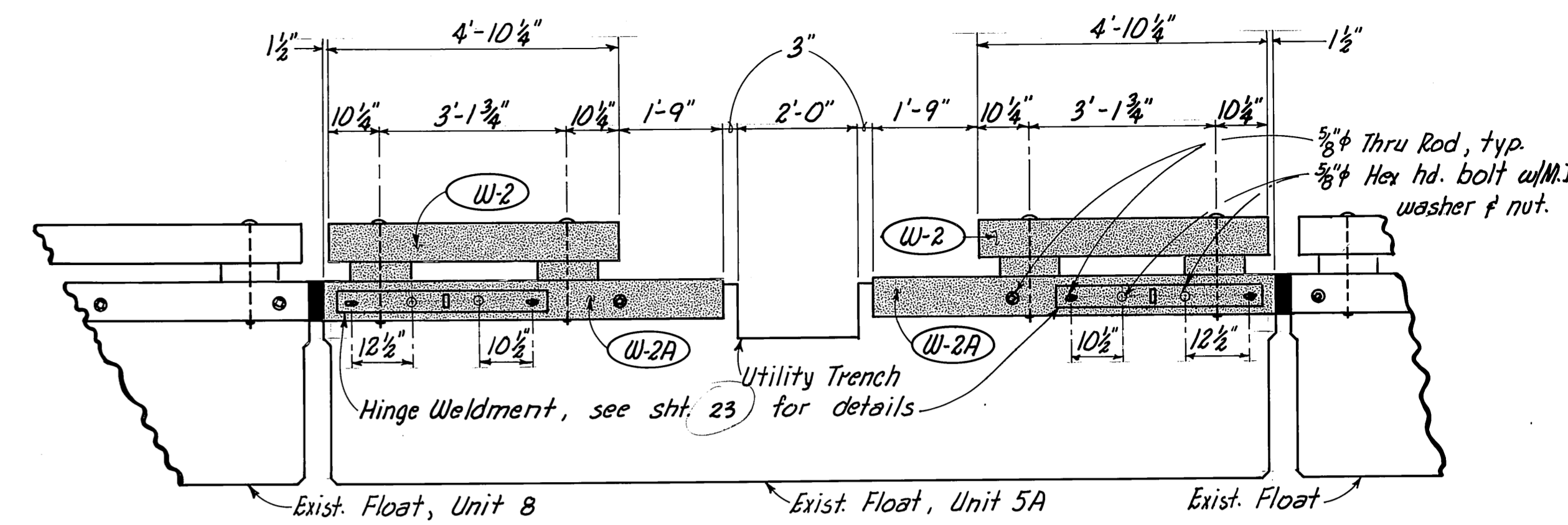
M.H.
10/3/87



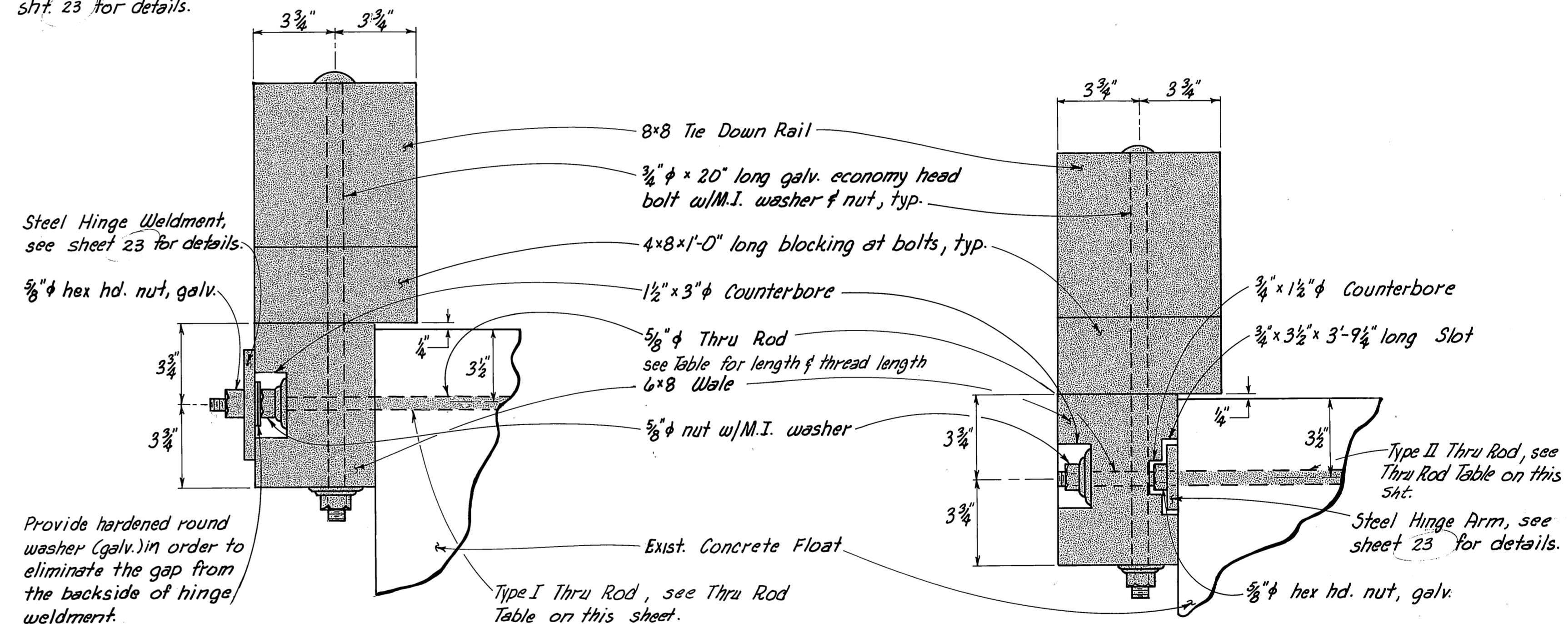
DO NOT SCALE THIS DRAWING - USE DIMENSIONS			
STATE OF ALASKA			
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES			
AUK BAY		ALASKA	
INTERMEDIATE TENSIONING UNIT			
AS FABRICATED DETAILS (REVISION)			
DESIGNED	CHECKED	DRAWN <i>B.W.B.</i>	DATE <i>11-86</i>
PROJECT NUMBER <i>67664, 69016, 69106</i>	SHEET <i>20</i> OF <i>49</i>		



PLAN VIEW
SEWAGE PUMPOUT FLOAT
 $\frac{1}{2}$ " = 1'-0"

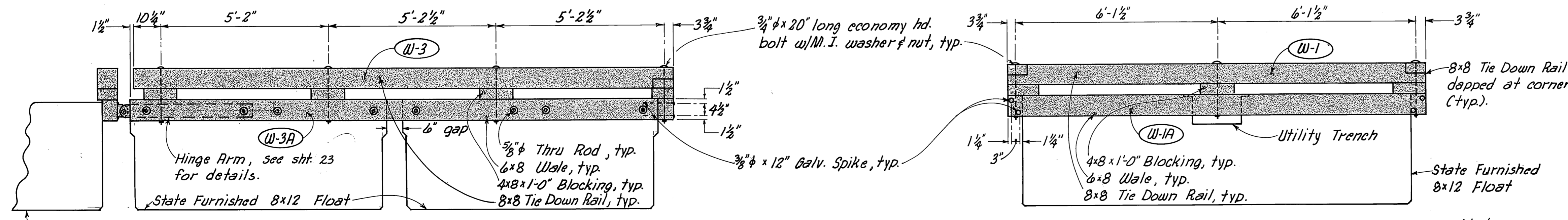


SECTION E-E
 $\frac{1}{2}$ " = 1'-0"



SECTION D-D
 $\frac{1}{2}$ " = 1'-0"

SECTION G-C
 $\frac{1}{2}$ " = 1'-0"



SECTION B-B
 $\frac{1}{2}$ " = 1'-0"

SECTION A-A
 $\frac{1}{2}$ " = 1'-0"

THRU ROD TABLE			
THRU ROD TYPE	TOTAL LENGTH OF THRU ROD	THREAD LENGTH "A"	THREAD LENGTH "B"
I	5'-7 $\frac{1}{2}$ "	2"	3 $\frac{1}{2}$ "
II	5'-6"	2"	6"

STAMP

DO NOT SCALE THIS DRAWING - USE DIMENSIONS

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES

AUKE BAY ALASKA

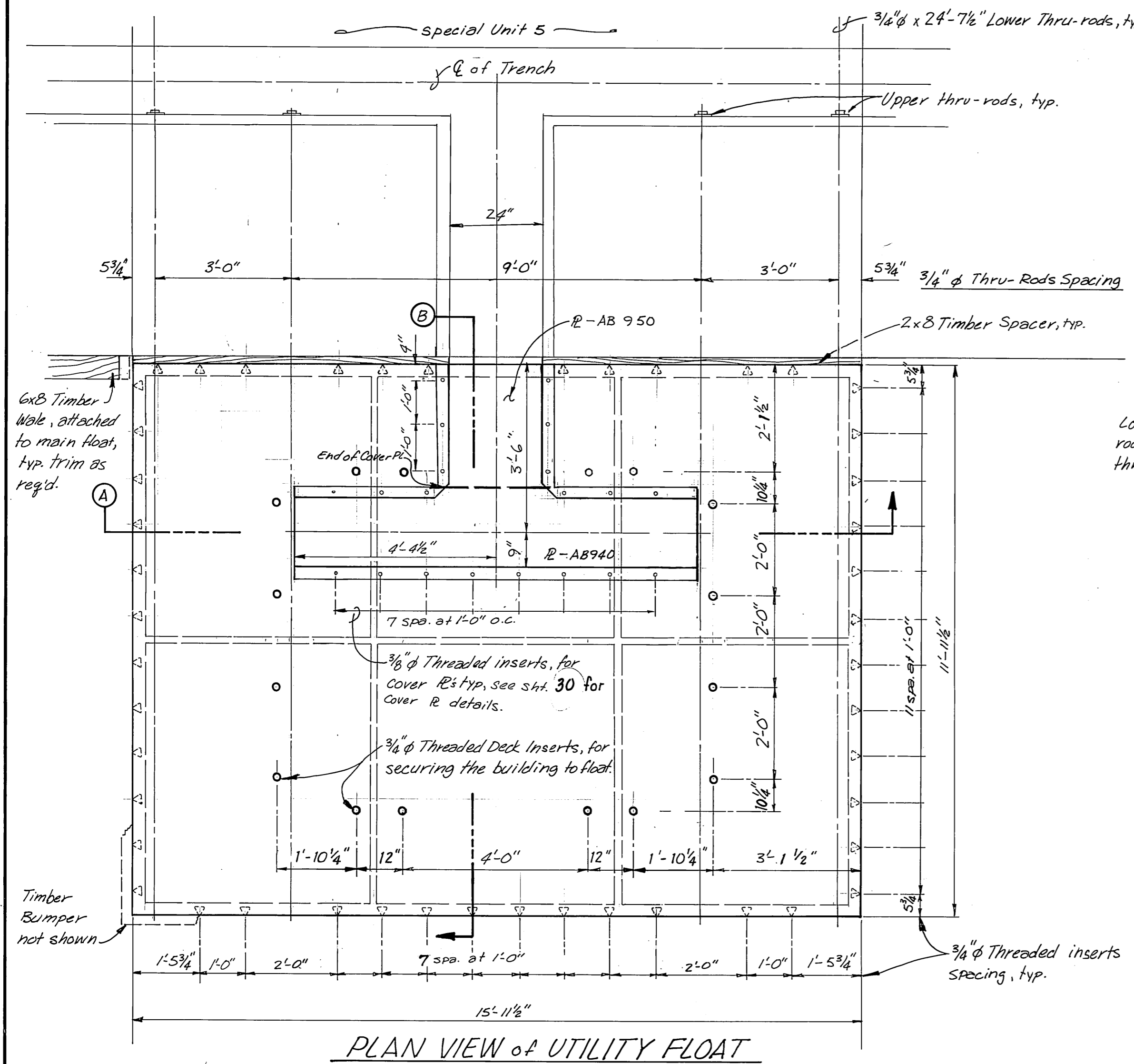
SEWAGE PUMPOUT FLOAT UNIT

DESIGNED D.S. CHECKED J.D.B. DRAWN D.S. DATE Aug. '86

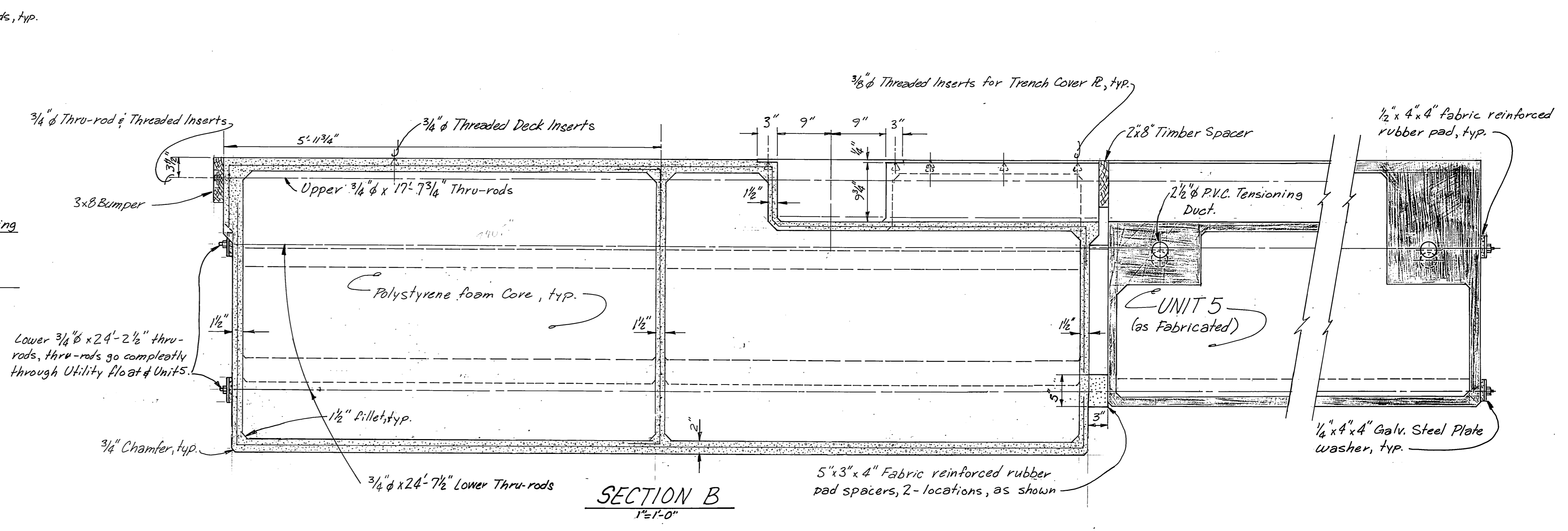
PROJECT NUMBER 67664, 69016, 69106 SHEET 22 OF 49

11/9/86

M.H.
10/3/87

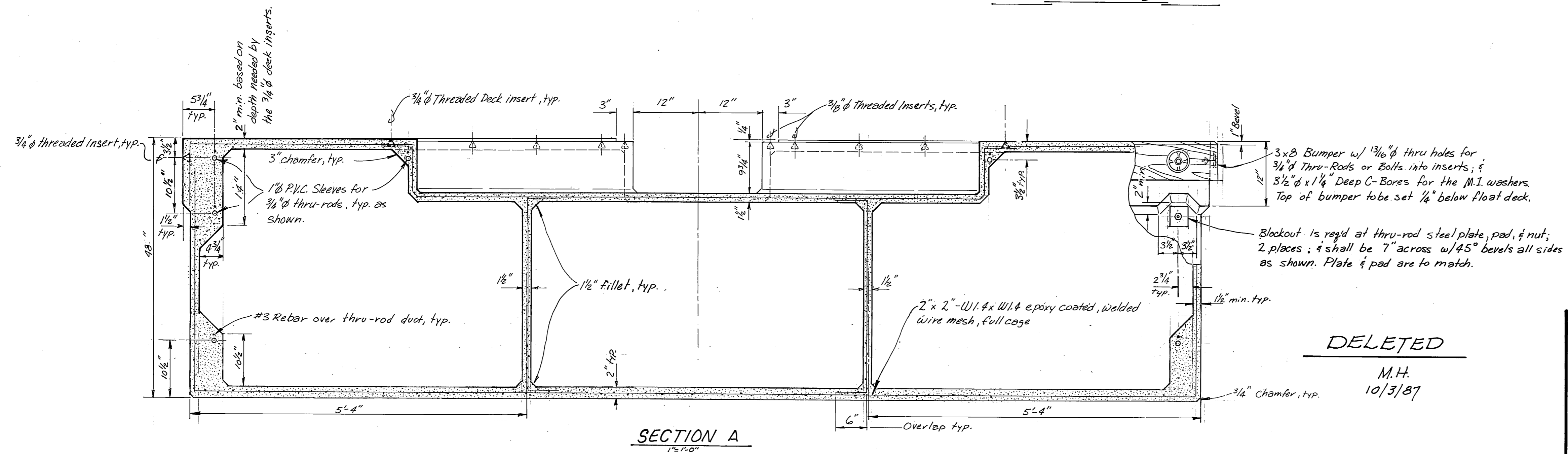


PLAN VIEW of UTILITY FLOAT



SECTION B
1'-7-0"

FRONT VIEW

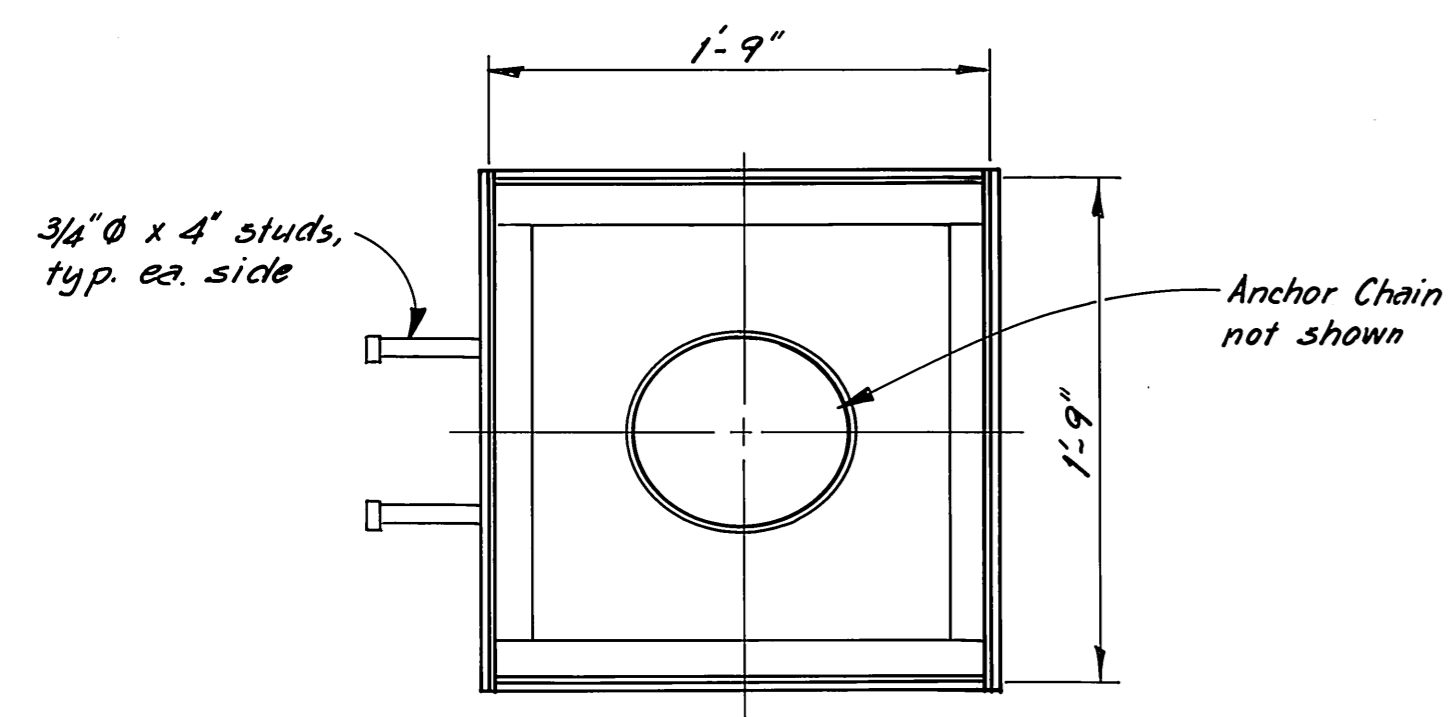


SECTION A
1'-7-0"

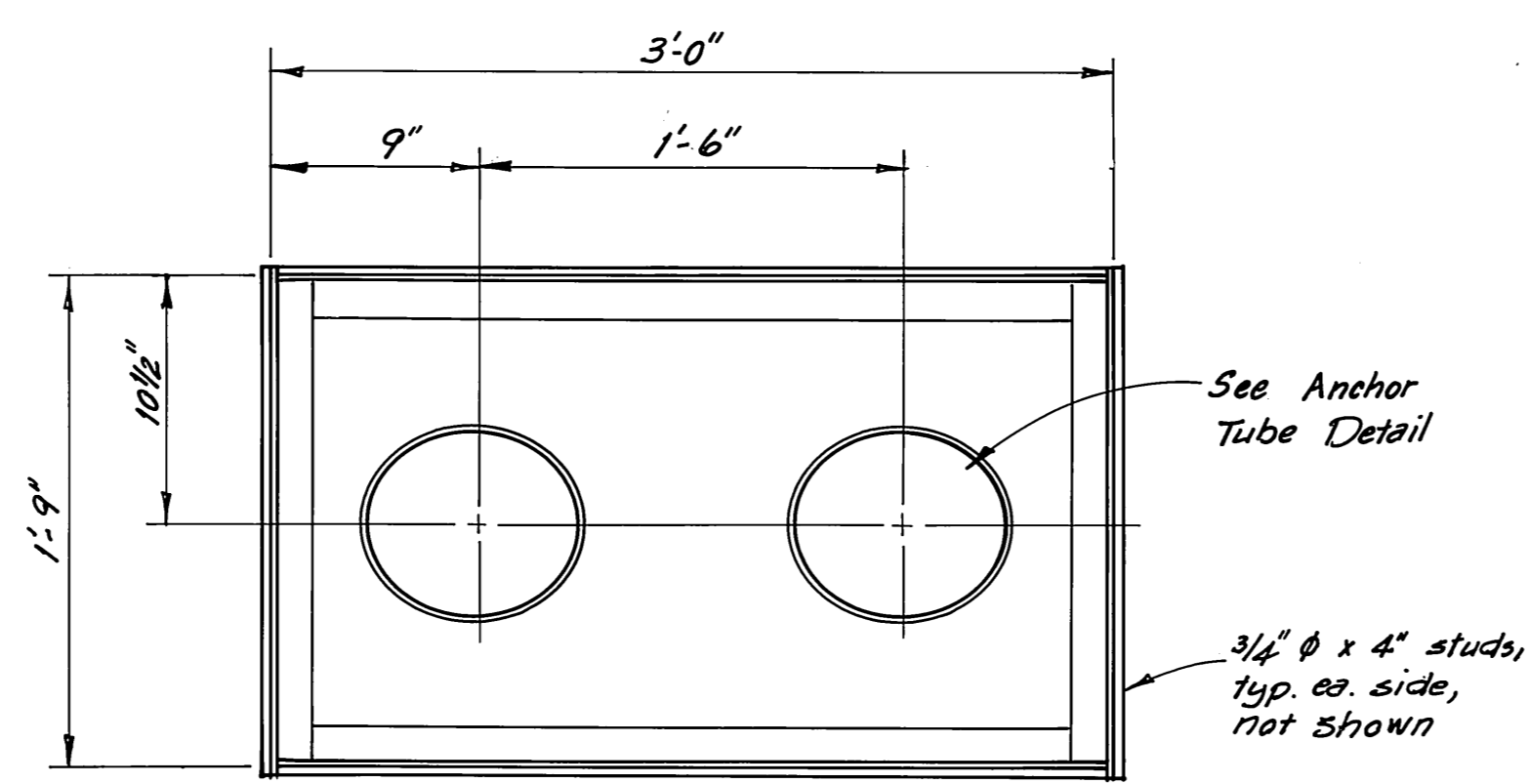
- NOTES:**
1. All inserts this sheet to be stainless steel.
 2. Contractor to insure that thru-rods for utility float align with ducts in fabricated float Unit 5 prior to casting Utilities float.
 3. See sheet 34 for Utility float Building details.

DELETED
M.H.
10/3/87

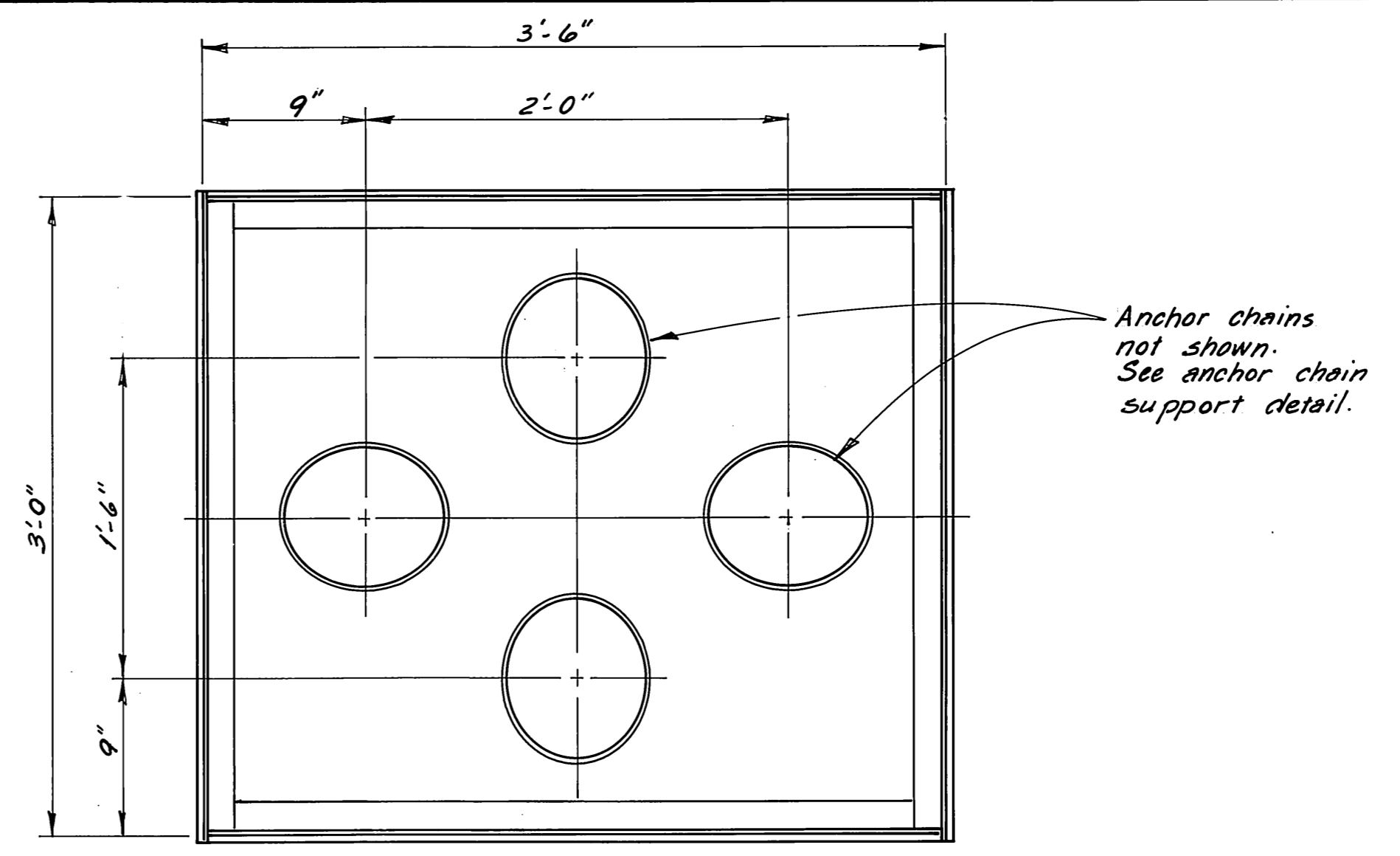
STAMP		DO NOT SCALE THIS DRAWING - USE DIMENSIONS	
		STATE OF ALASKA	
		DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES	
Auke Bay		Alaska	
UTILITIES FLOAT			
DESIGNED DJM	CHECKED [Signature]	DRAWN DJM	DATE 12-85
PROJECT NUMBER 67664, 69016, 69106	SHEET 24 OF 49		



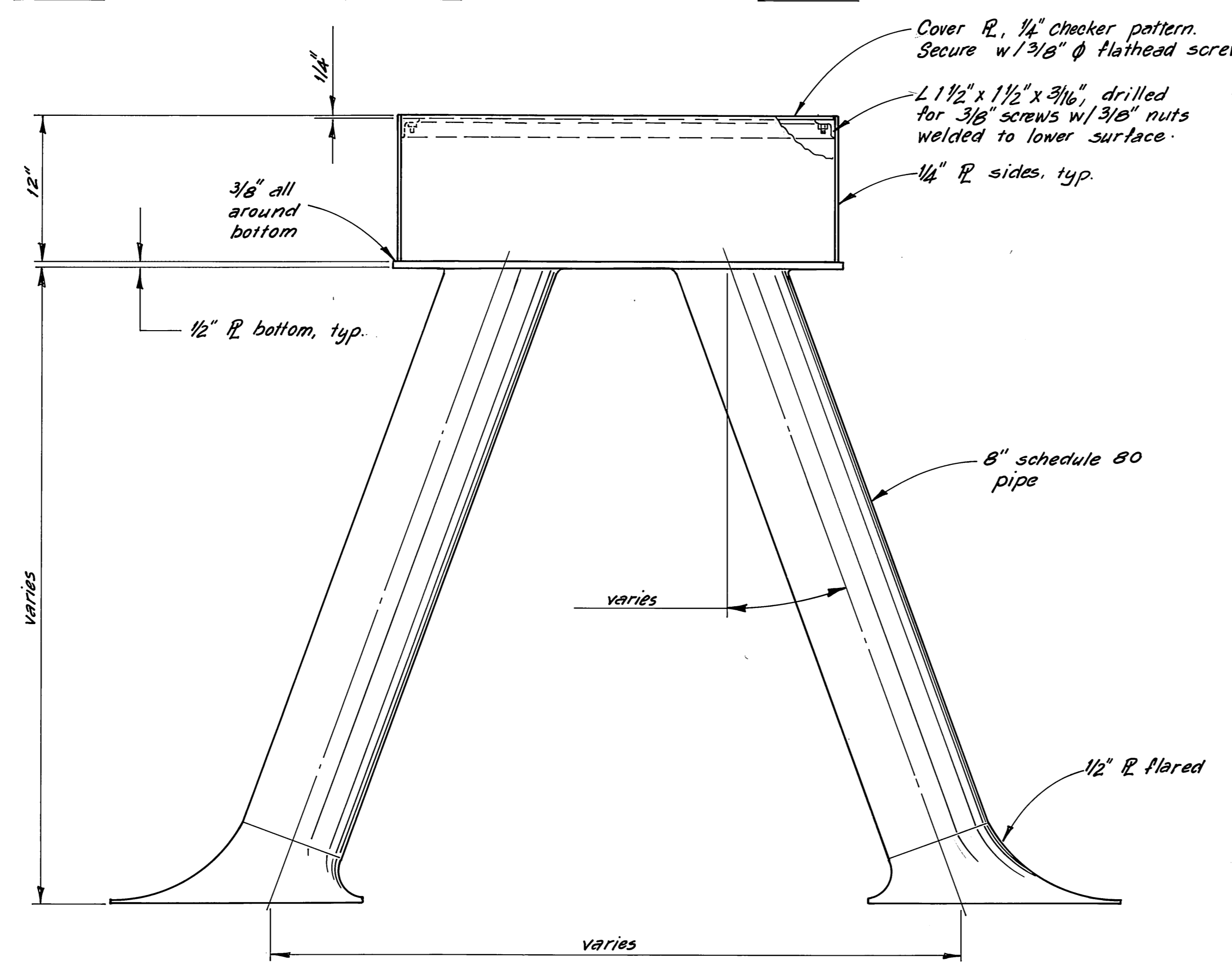
PLAN
ONE-WAY ANCHOR WELL



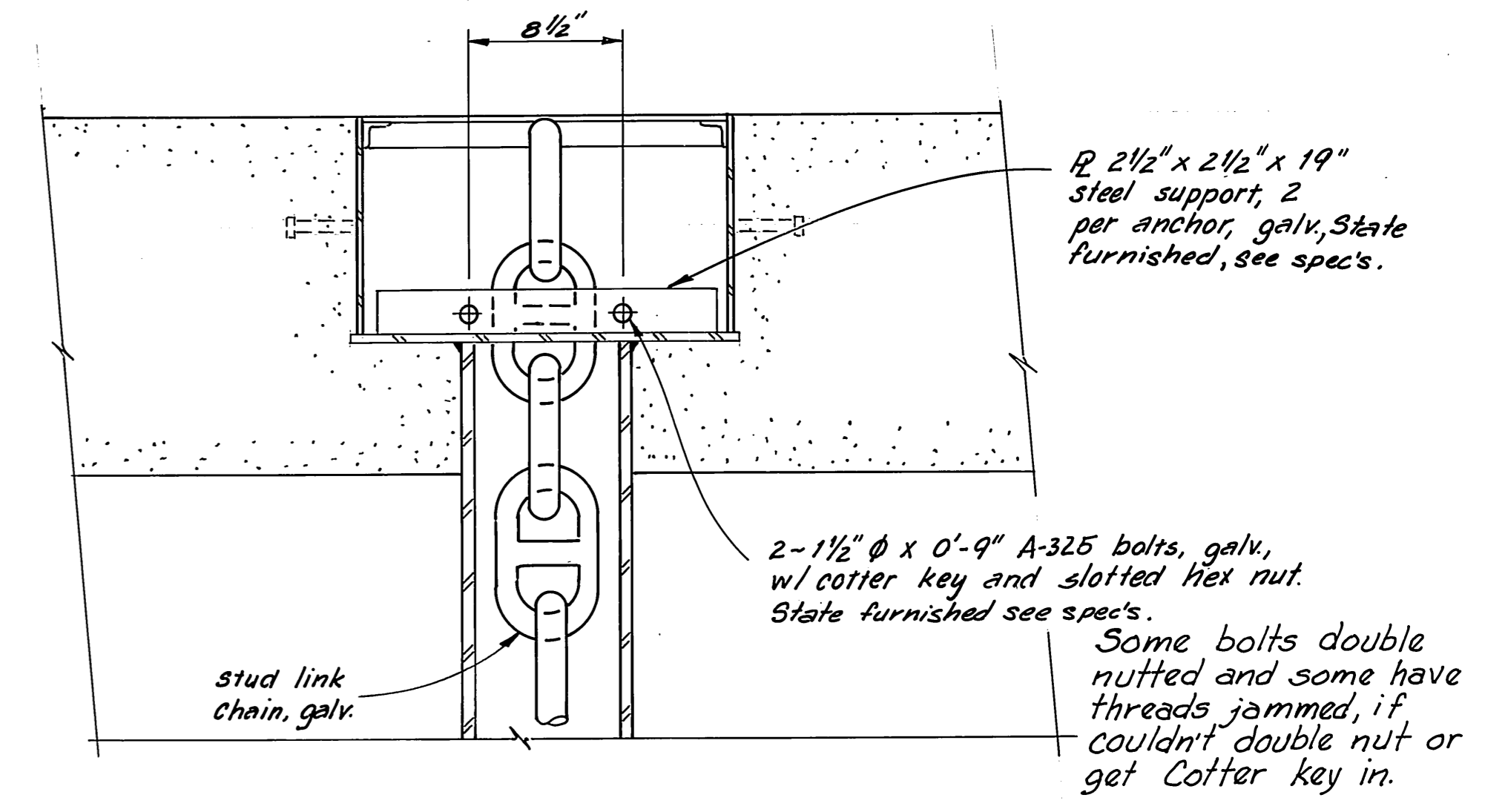
PLAN
TWO-WAY ANCHOR WELL



PLAN
FOUR-WAY ANCHOR WELL



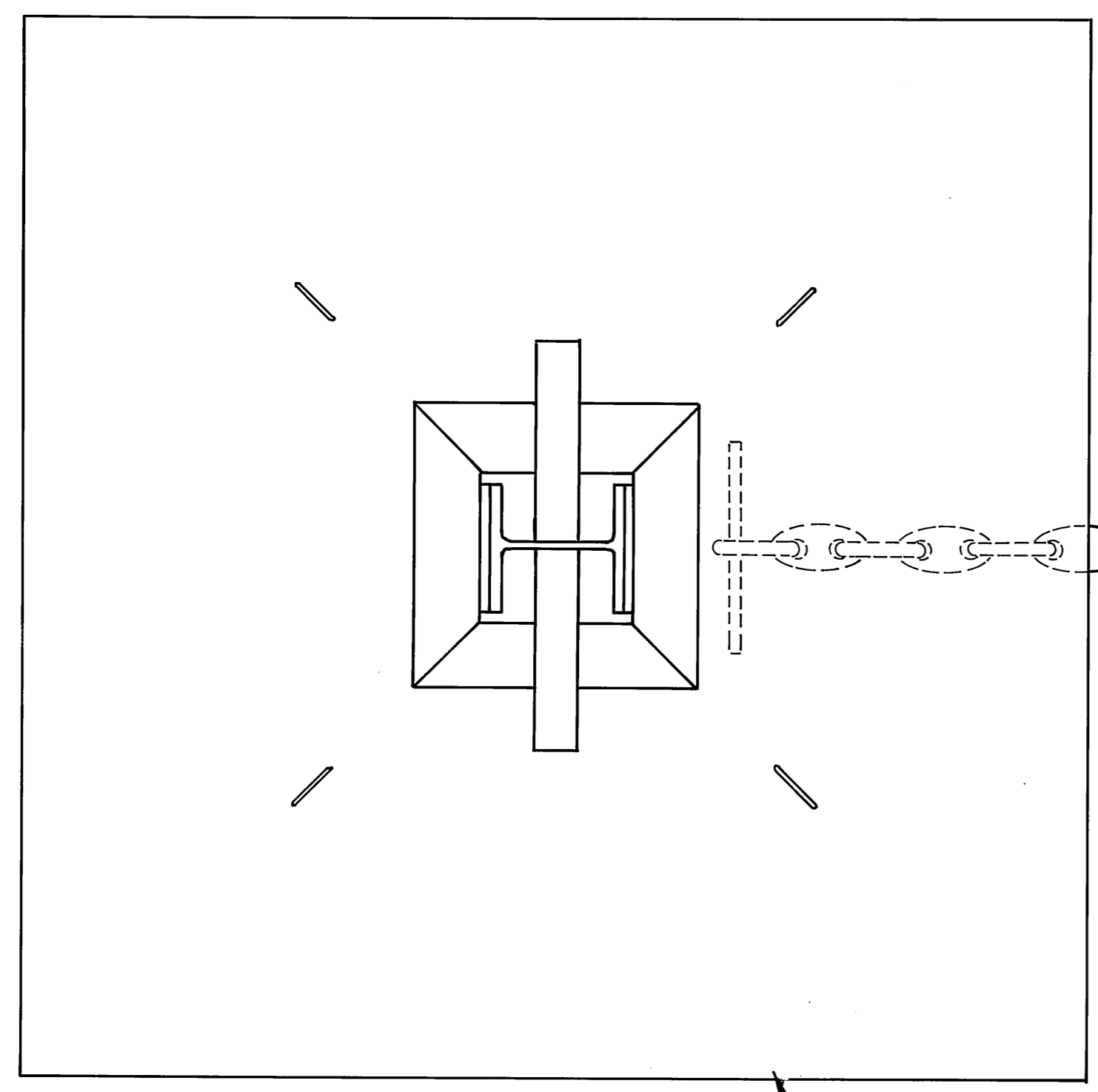
ANCHOR TUBE DETAIL (TYPICAL)



TYPICAL ANCHOR CHAIN SUPPORT DETAIL
1/2" = 1'-0"

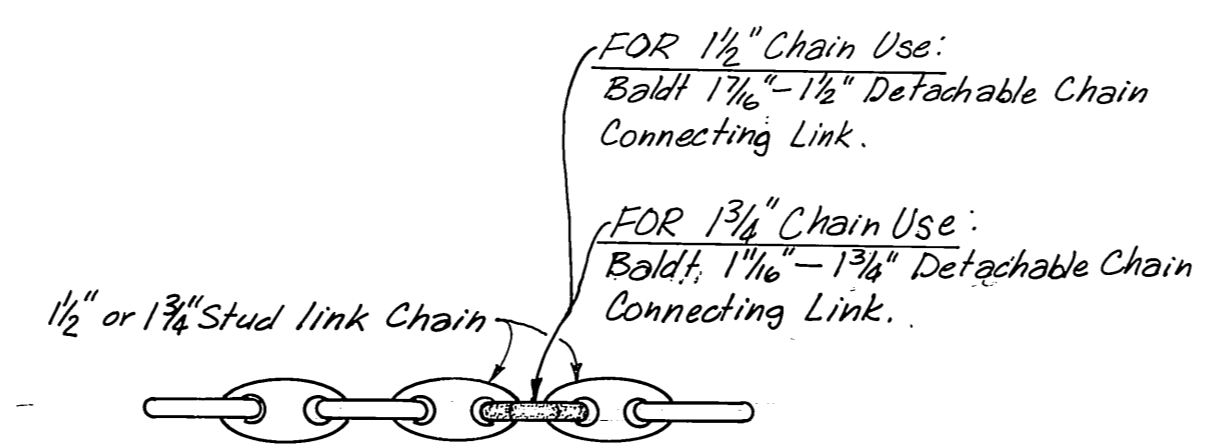
M.H.
10/3/87

STAMP		DO NOT SCALE THIS DRAWING - USE DIMENSIONS	
		STATE OF ALASKA DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES DESIGN AND CONSTRUCTION	
		Auke Bay Alaska FLOAT ANCHOR WELLS & ANCHOR CHAIN SUPPORT AS FABRICATED	
SCALE 1/2" = 1'-0"	SURVEYED	APPROVED	
DESIGNED JDB	DRAWN DB		
CHECKED J	DATE 11-85		
PROJECT NUMBER 6766A, 67016, 69106	SHEET 25 OF 49		



PLAN

10'x10' Concrete Anchor



PLAN

Note: Remove existing end links from chain, make connections as shown.

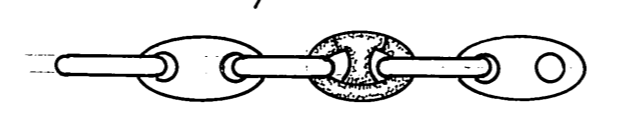
FOR 1 1/2" Chain Use:
Baldt 1 1/4" - 1 1/2" Detachable Chain Connecting Link.

FOR 1 3/4" Chain Use:
Baldt 1 1/4" - 1 3/4" Detachable Chain Connecting Link.

1 1/2" or 1 3/4" Stud Link Chain

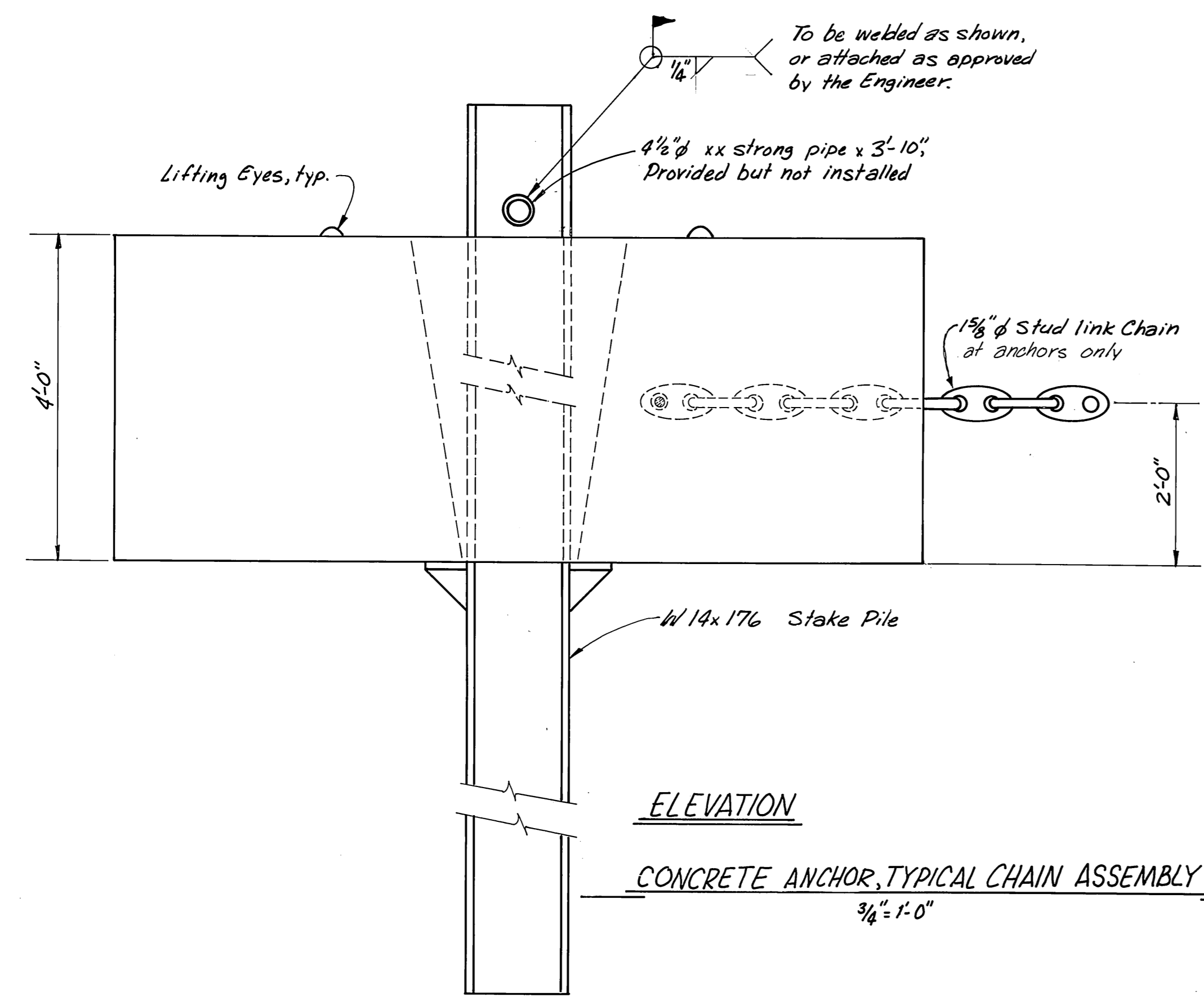
1 3/8" Stud Link Chain
Baldt Link

For 1 1/2" chain, use 1 1/4" - 1 1/2" Baldt Link
For 1 3/4" chain, use 1 1/4" - 1 3/4" Baldt Link
This note applies to anchor connection only.



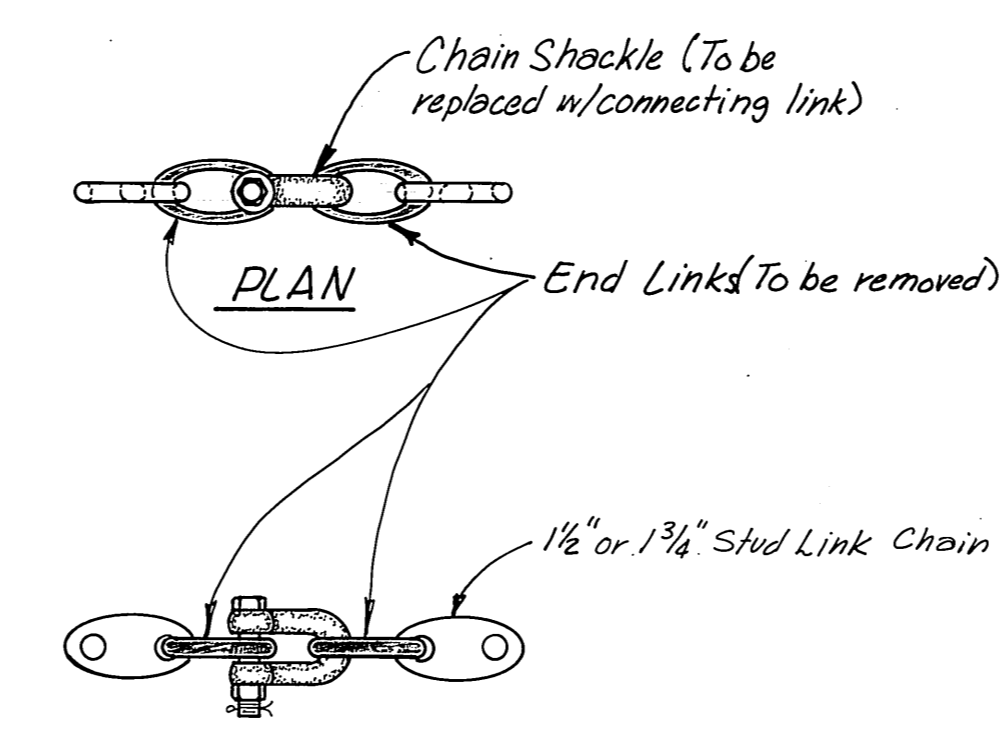
ELEVATION

REVISED CHAIN CONNECTION
3/4" = 1'-0"



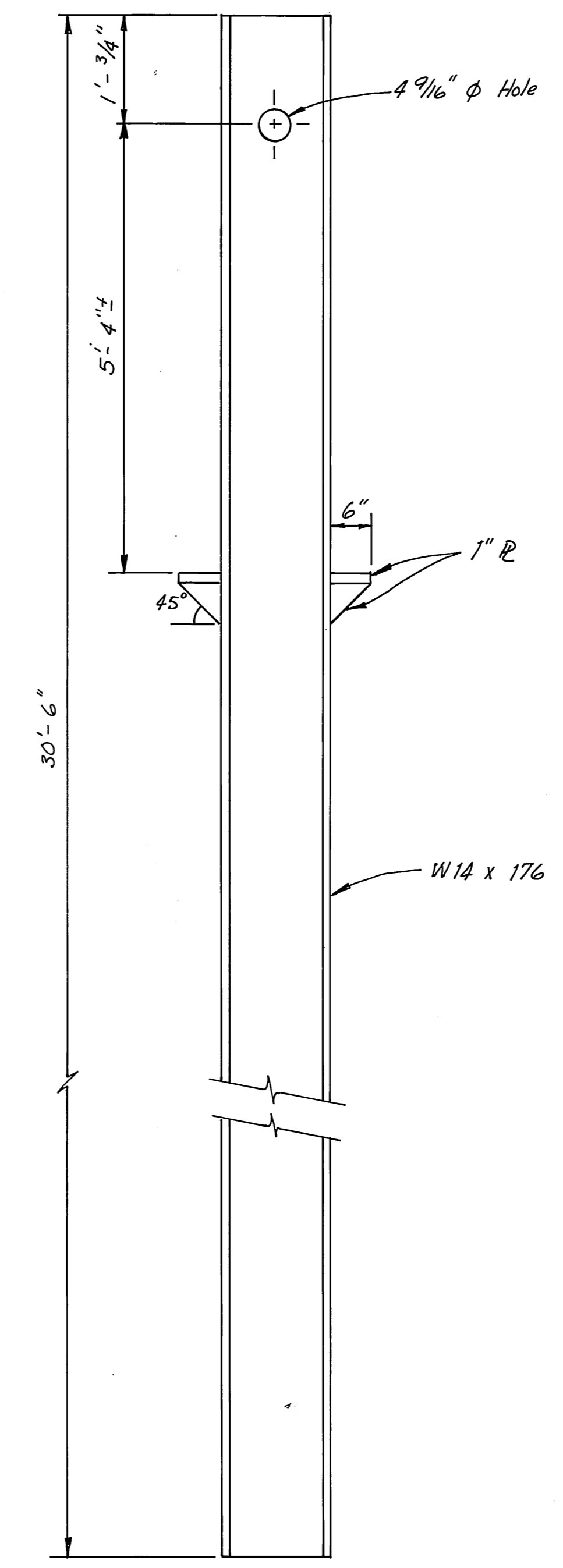
ELEVATION

CONCRETE ANCHOR, TYPICAL CHAIN ASSEMBLY
3/4" = 1'-0"



PLAN

ELEVATION
EXISTING CHAIN CONNECTION
3/4" = 1'-0"



AS FABRICATED
STAKE PILE
3/4" = 1'-0"

FLOAT ANCHORS

ANCHOR NUMBER	CHAIN SIZE	*** ESTIMATED CHAIN LENGTH (From Lock off to Anchor Lug)	HORZ. DISTANCE FROM CENTERLINE OF FLOAT TO CENTERLINE OF ANCHOR LUG
27	1.5"	389.6'	362.6'
28	1.5"	373.8'	348.4'
29	1.5"	389.6'	362.3'
30	1.5"	358.0'	333.7'
31	1.5"	380.0'	348.2'
32	*1.75"	425.4'	401.5'
33	1.5"	348.6'	325.8'
34	*1.75"	431.7'	410.5'
35	1.5"	377.0'	350.5'
36	1.5"	350.8'	315.5'
37	1.5"	373.8'	347.7'
38	*1.75"	411.2'	401.0'
39	1.5"	349.0'	303.3'
40	*1.75"	424.7'	391.0'
41	1.5"	373.8'	343.0'
42	1.5"	343.8'	329.0'
43	1.5"	373.8'	343.0'
44	1.5"	344.4'	329.0'
45	1.5"	367.5'	336.5'
46	1.5"	349.7'	329.5'
47	1.5"	364.3'	333.9'
48	*1.5"	400.1'	383.6'
49	1.5"	349.7'	329.1'
50	*1.5"	381.7'	366.4'
51	1.5"	361.2'	330.8'
52	1.5"	350.1'	329.2'
53	*1.5"	572.8'	552.8'
54	*1.5"	463.8'	454.2'
55	*1.5"	560.8'	541.5'
56	*1.5"	387.3'	384.5'

* For longitudinal anchors the distance listed in Column 4 "Horizontal Distance from Centerline of Float to Centerline of Anchor Lug", shall be the horizontal distance from the center of the float anchor chain support to the centerline of the anchor lug.

The longitudinal anchors shall be located along the centerline of the floats.

*** Contractor to allow sufficient chain length for handling and tensioning. Actual chain length to be field calculated, based on actual anchor depth and horizontal distance.

NOTE:
Anchors 35 through 42 to be installed under Supplemental "B".
Remainder of anchors to be installed under Basic Bid.

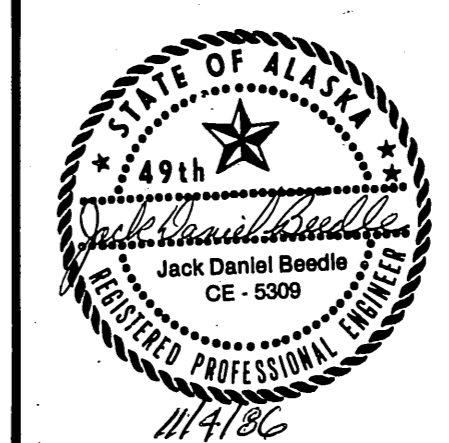
Anchor No 39 - Stake pile hit bedrock - Had to cut 14 feet of stake pile bottom so anchor would set on bottom.

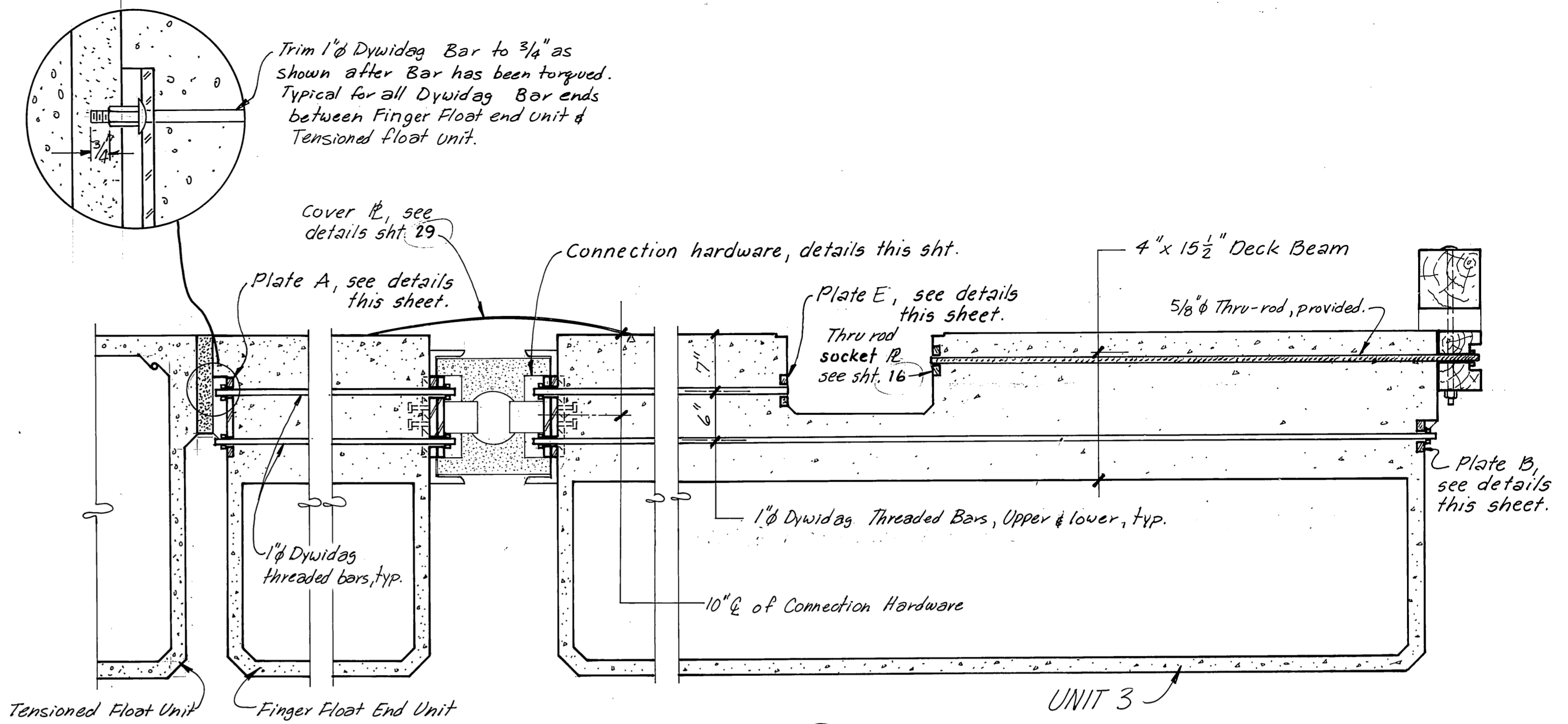
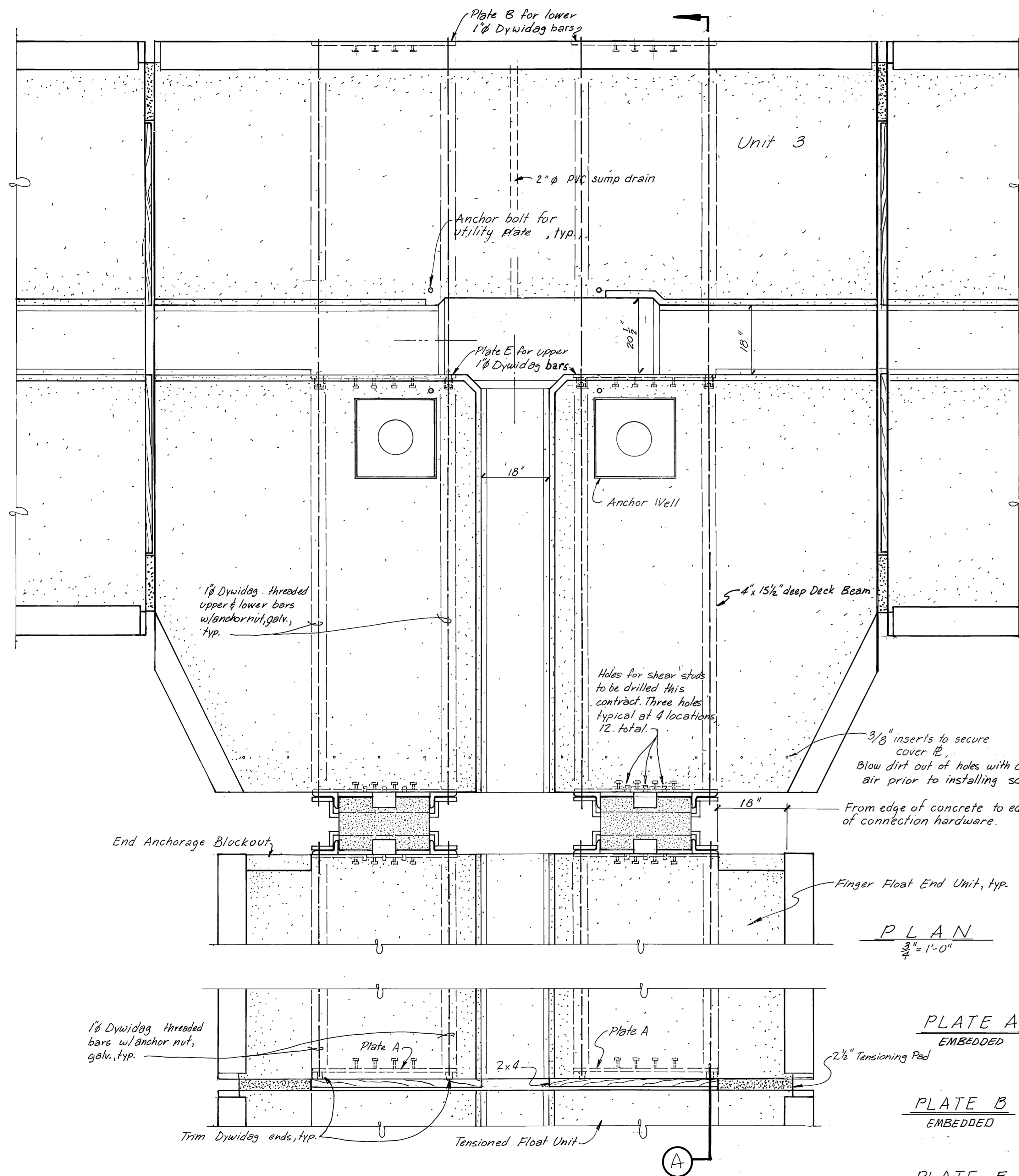
Anchor No 40 - Has approximately 1 shot of 1 1/2" phi Chain on it as Contractor was shy approx. 1 shot of 1 3/4" phi Chain - shot on anchor float end of chain.

Anchors No 32, 48, 53, and 55 - Anchor stake pile pipe pins not welded in place as they had to be removed underwater - Bolts (3/4" phi) put through pipe pin on both sides of stake pile.

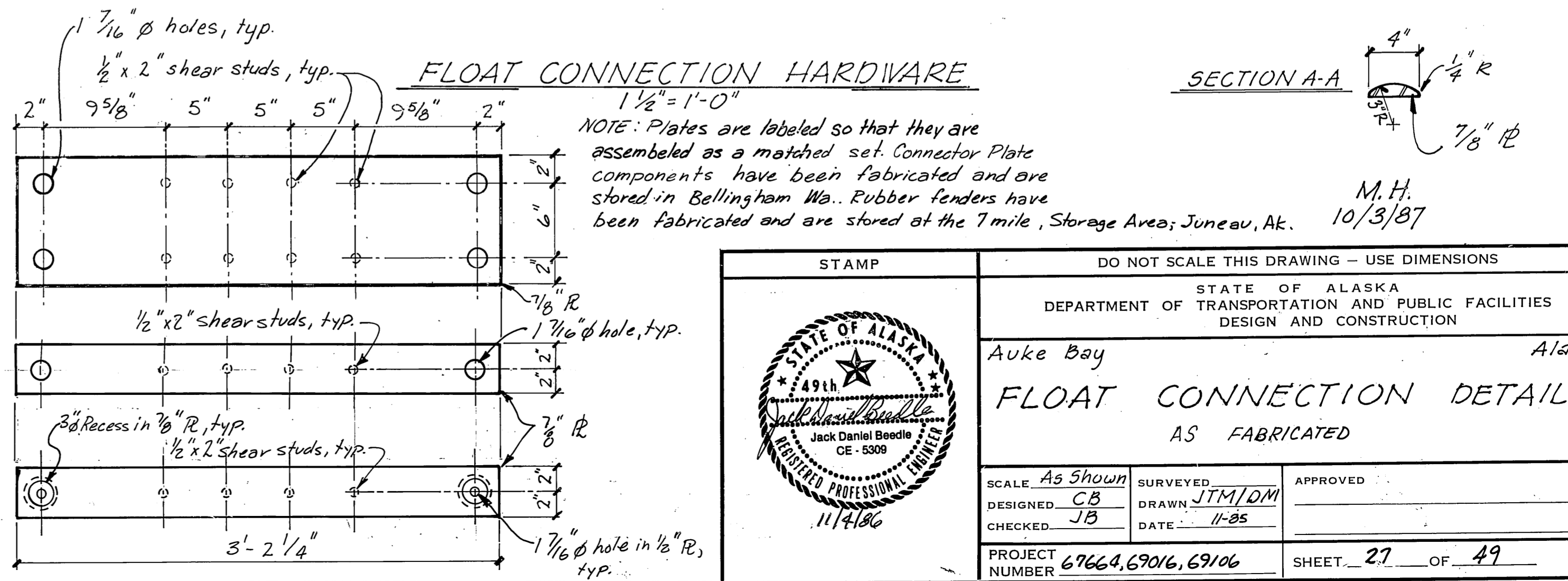
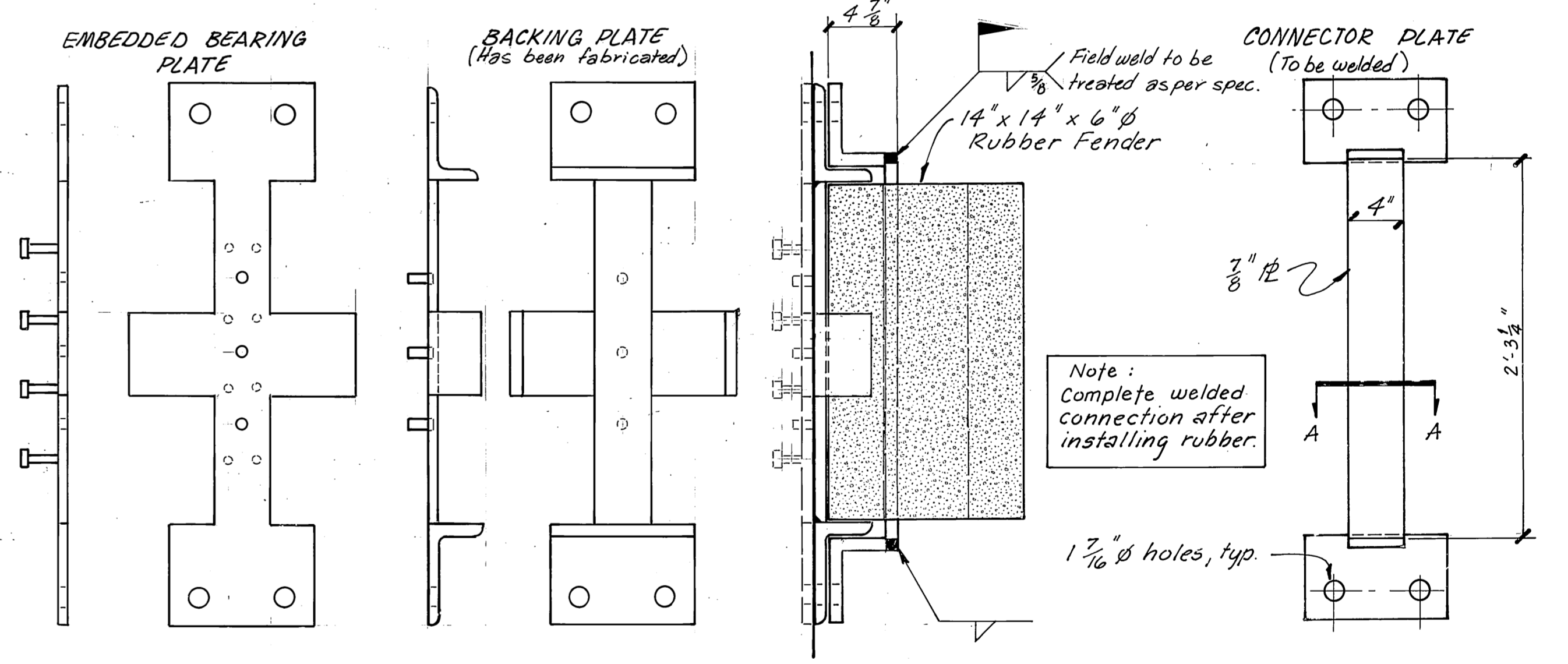
M.H.
10/31/87

STAMP		DO NOT SCALE THIS DRAWING - USE DIMENSIONS	
STATE OF ALASKA DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES			
Auke Bay		Alaska	
ANCHOR DETAILS			
DESIGNED <u>JDB</u>	CHECKED <u>[Signature]</u>	DRAWN <u>DJM</u>	DATE <u>May 86</u>
PROJECT NUMBER <u>67664, 67016, 67006</u>		SHEET <u>26</u> OF <u>49</u>	



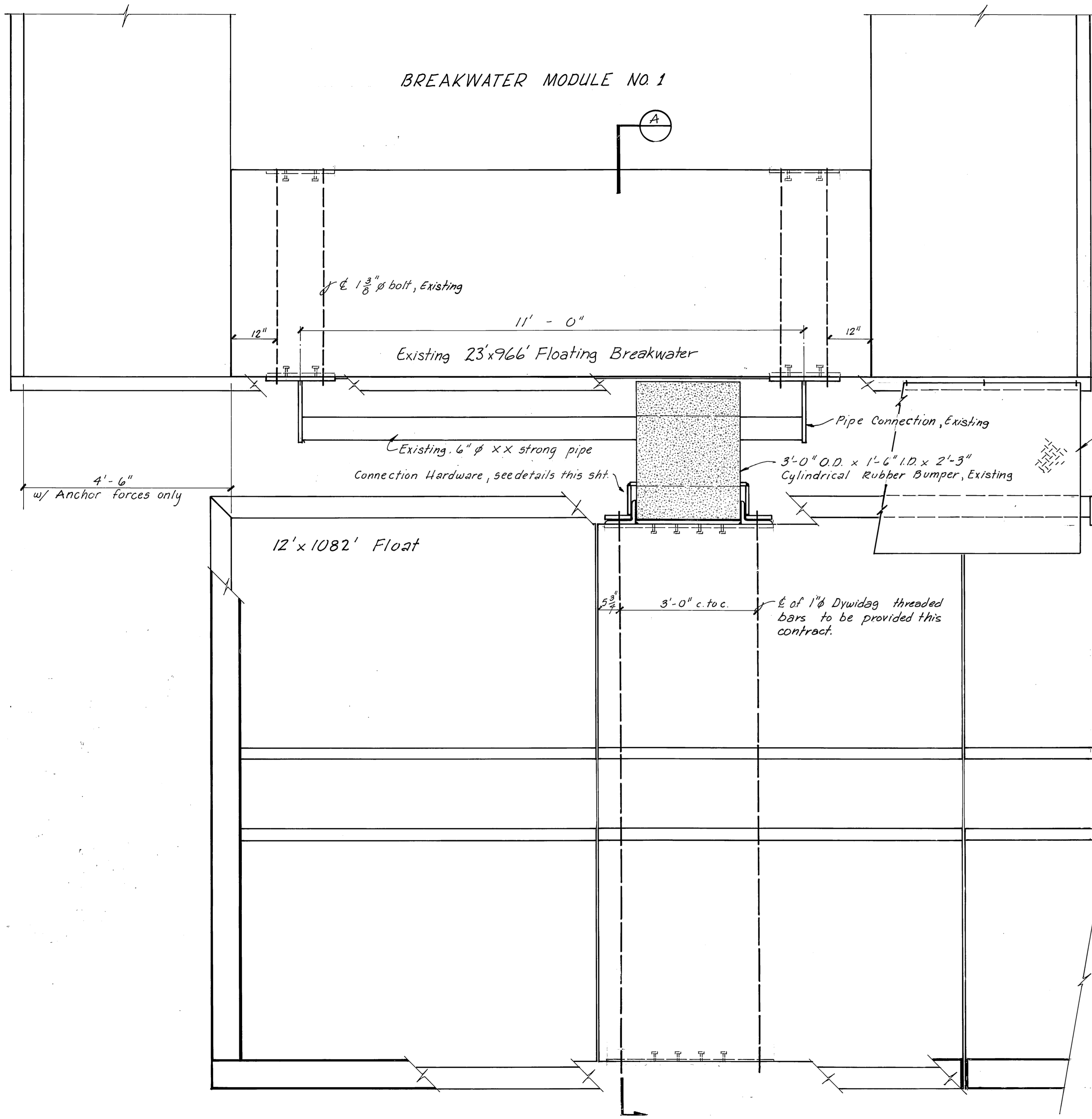


SECTION A
 1" = 1'-0"
 NOTE: 1. Dywidag bars to be stressed in accordance with the manufacturers specifications.
 2. Dywidag bars & Anchor Nuts to be provided this contract.
 3. Dywidag bar ends that are field trimmed are to be treated as per specs.

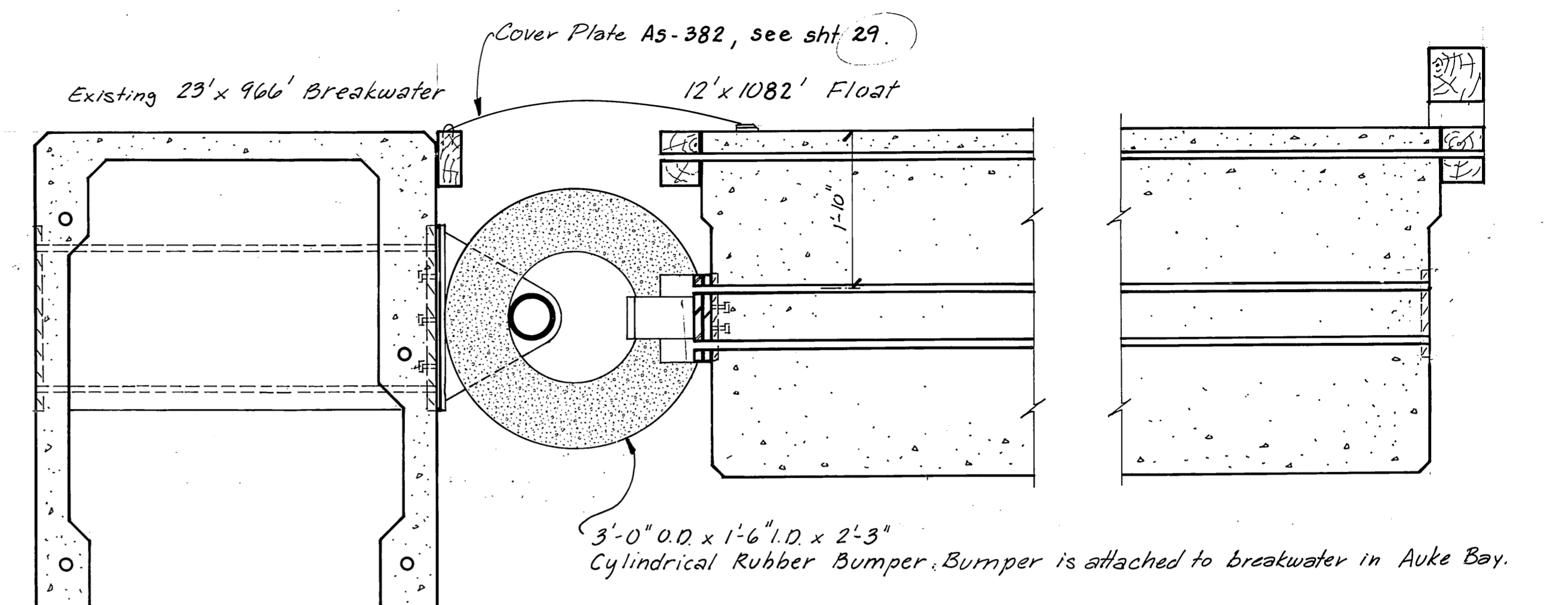


M.H.
 10/3/87

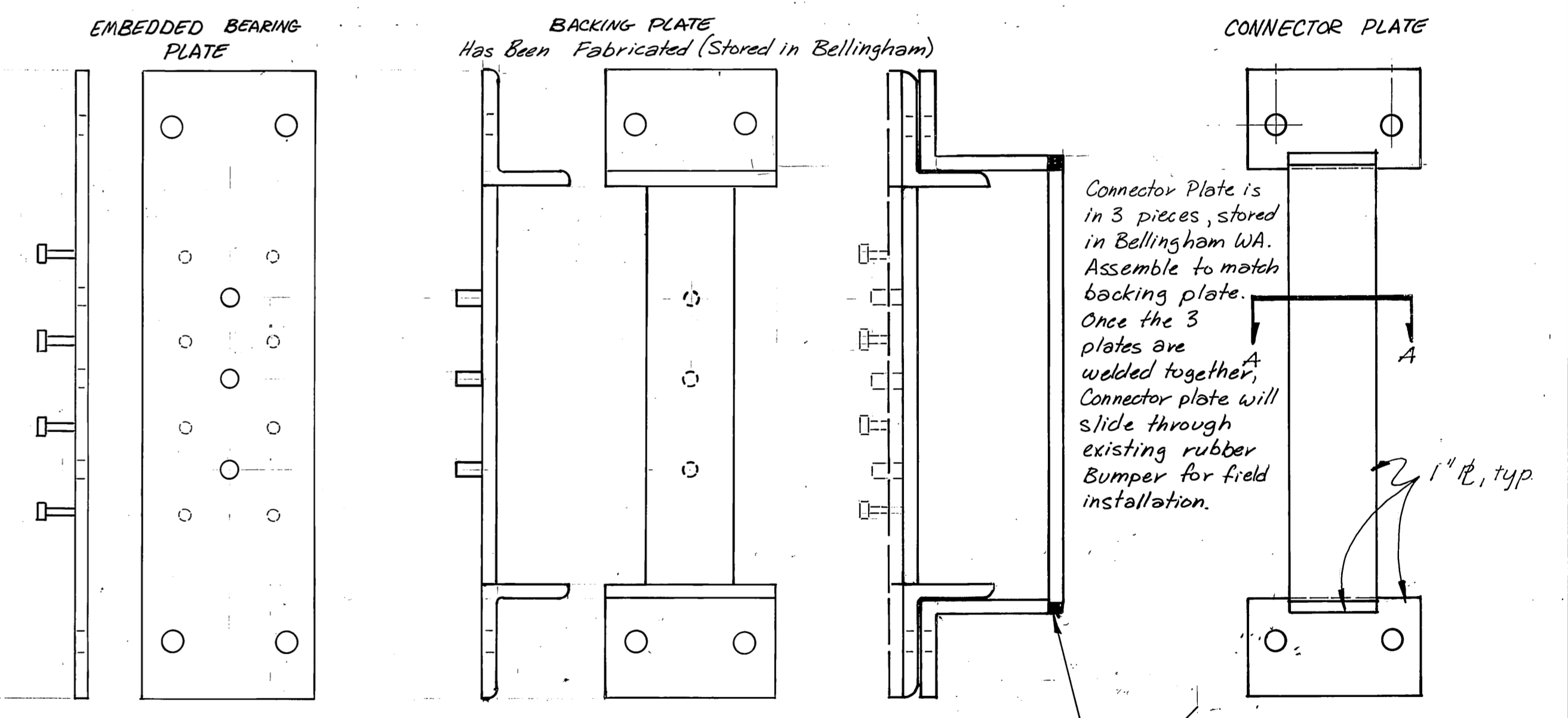
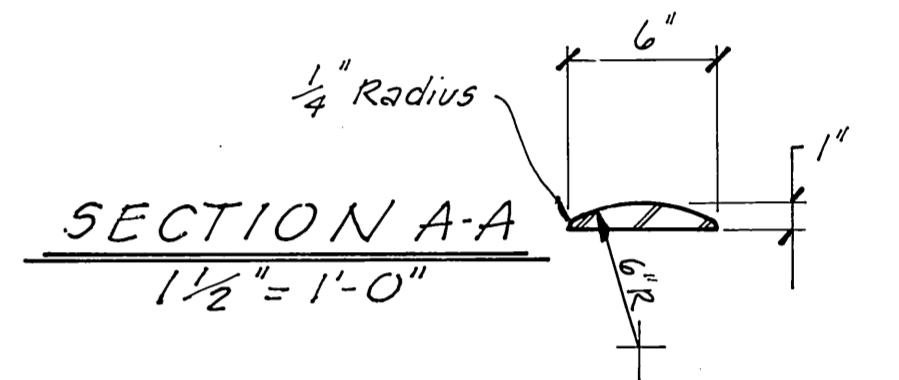
STAMP		DO NOT SCALE THIS DRAWING - USE DIMENSIONS	
STATE OF ALASKA DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES DESIGN AND CONSTRUCTION			
Auke Bay		Alaska	
FLOAT CONNECTION DETAILS AS FABRICATED			
SCALE: As Shown	SURVEYED:	APPROVED:	
DESIGNED: CB	DRAWN: JTM/DM		
CHECKED: JB	DATE: 11-85		
PROJECT NUMBER: 67664, 69016, 69106	SHEET: 27		OF: 49



PLAN
3/4" = 1'-0"



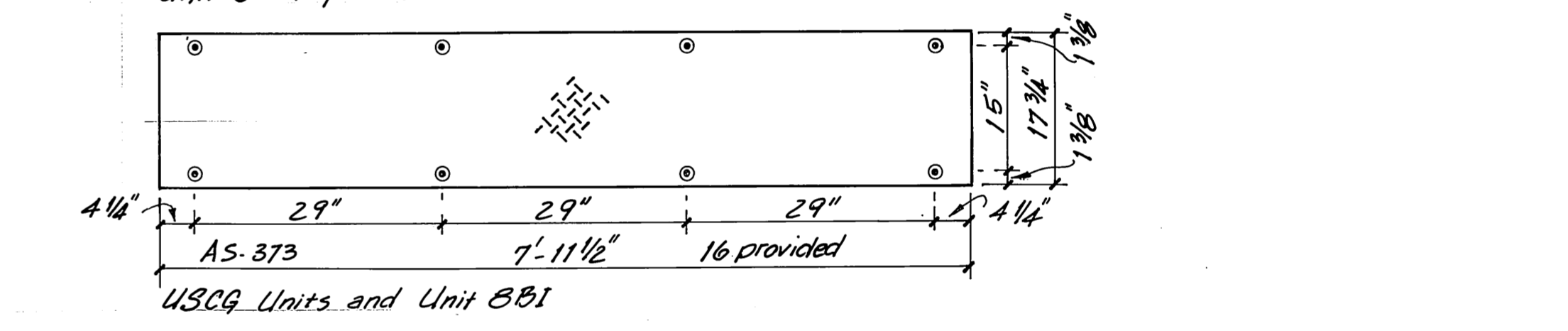
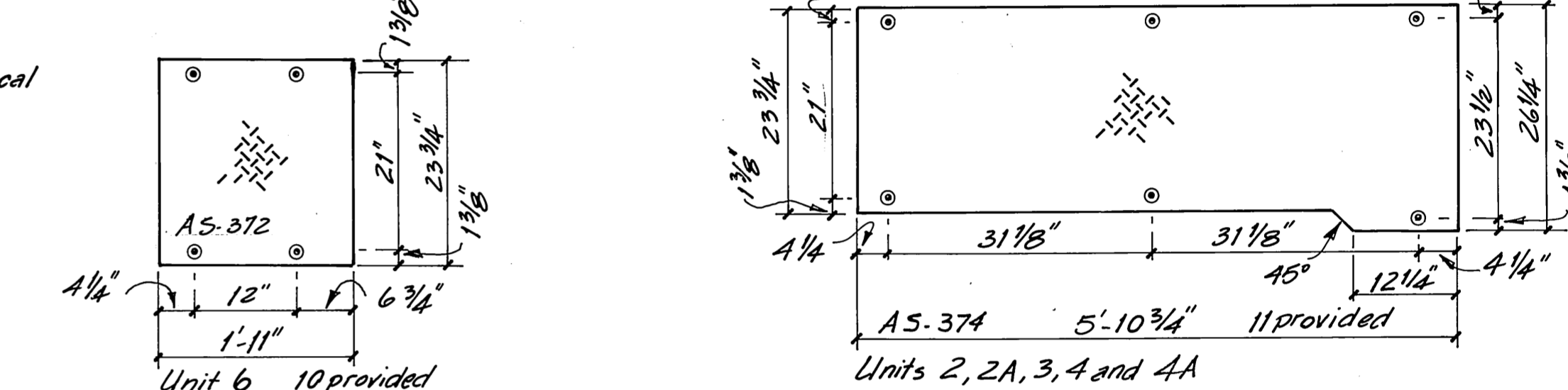
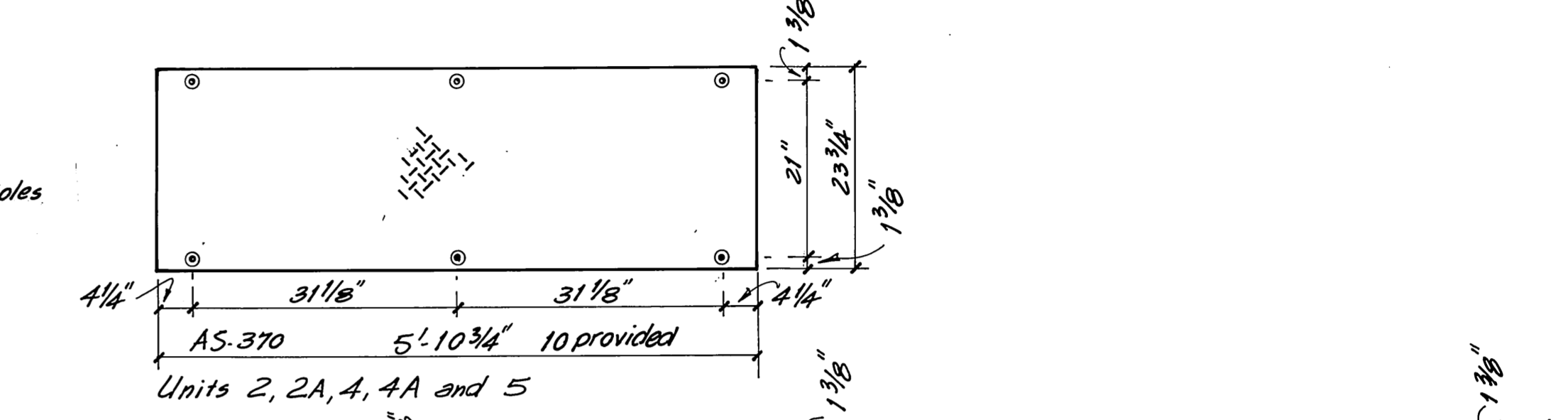
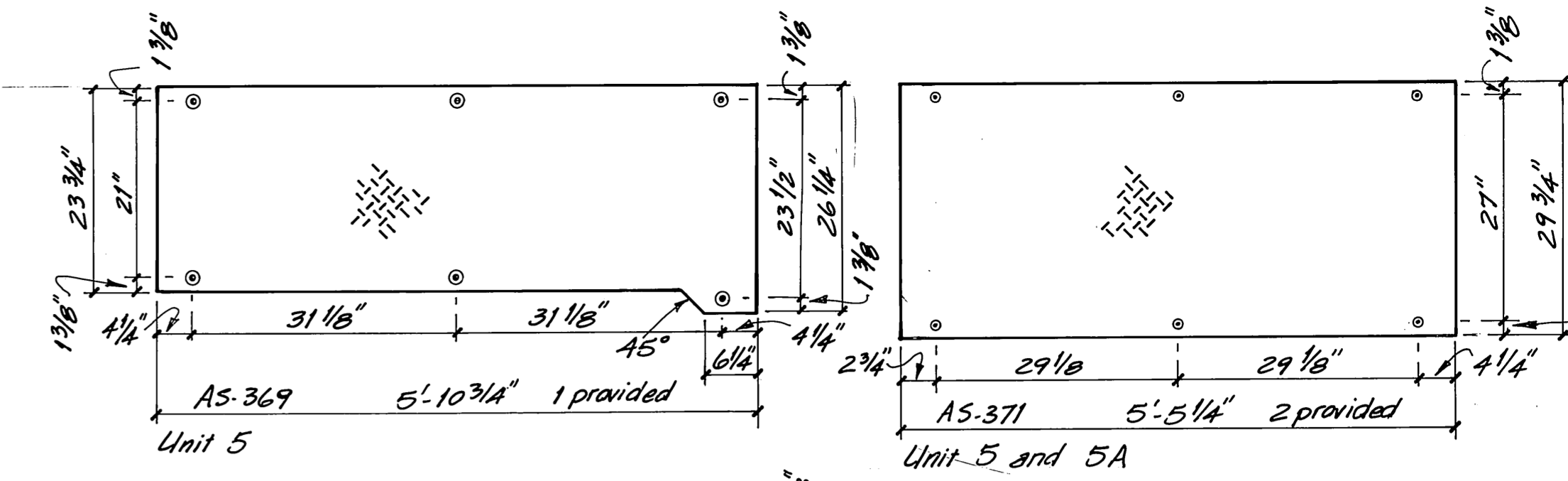
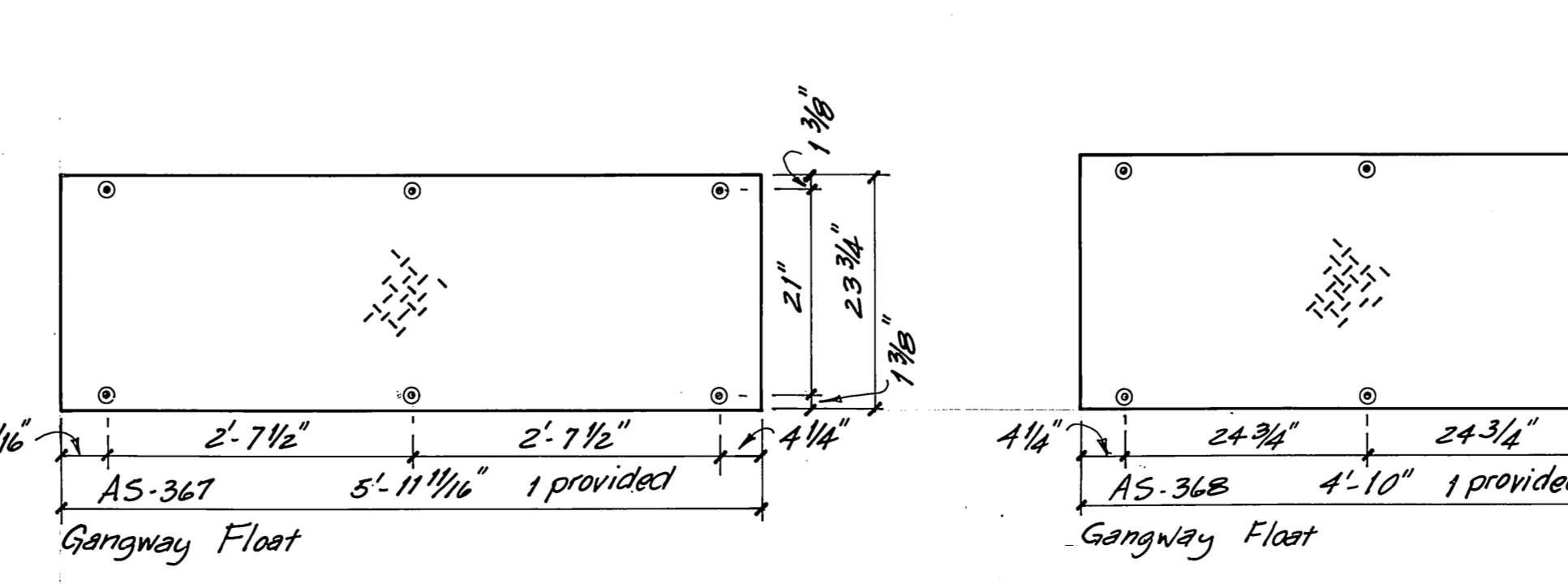
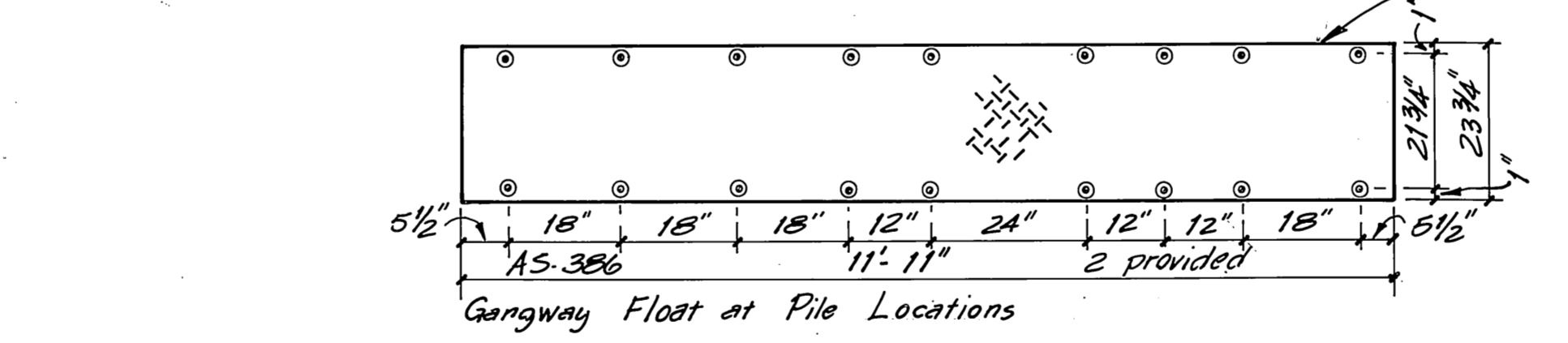
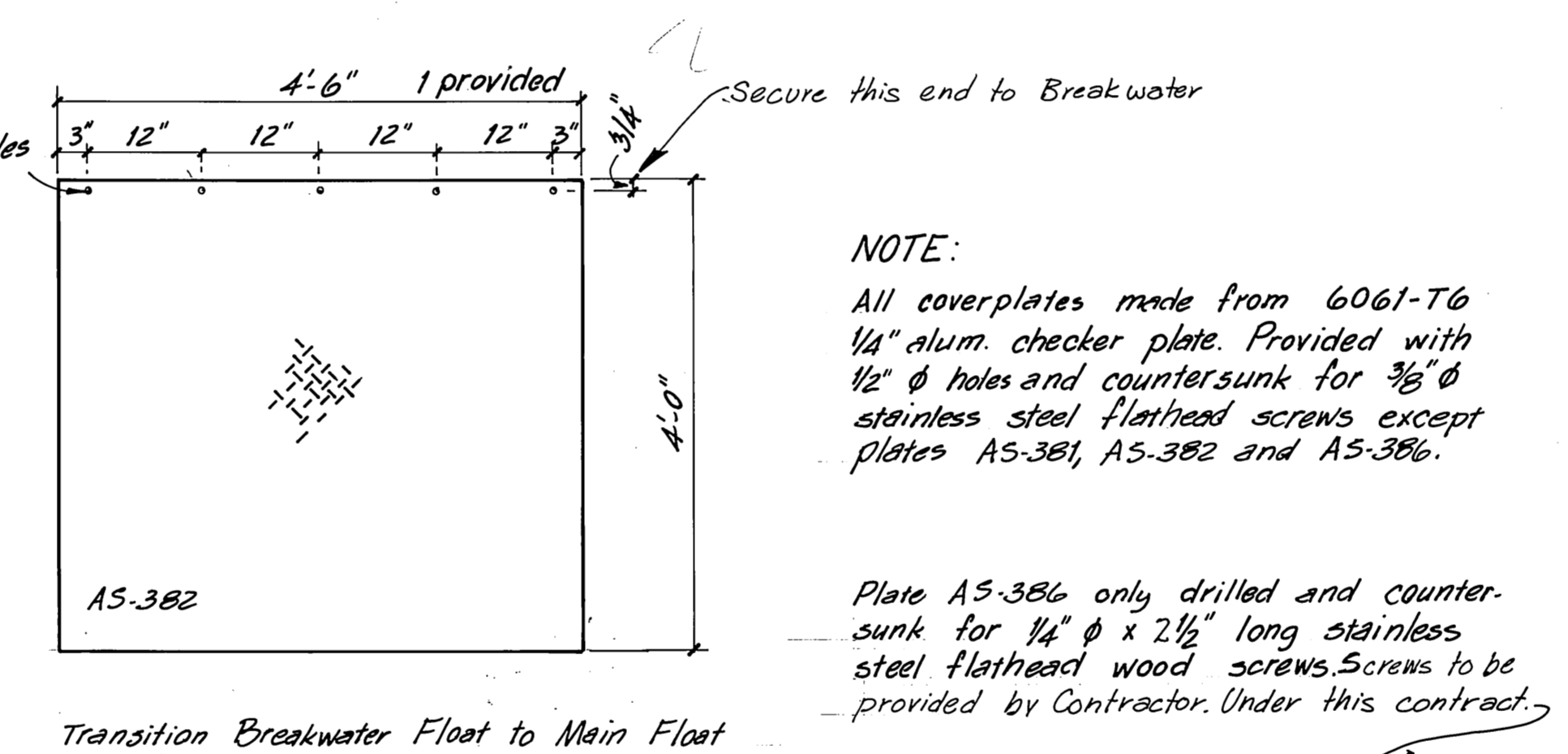
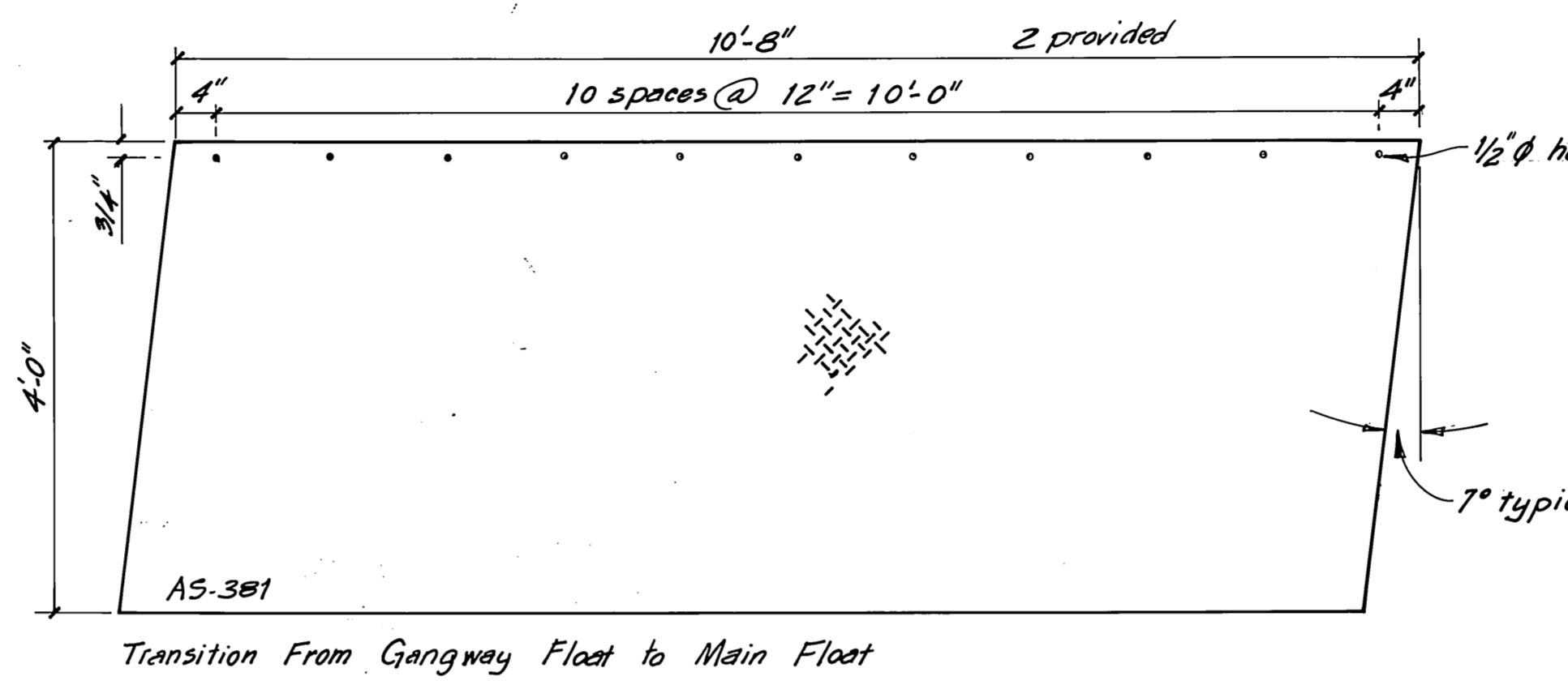
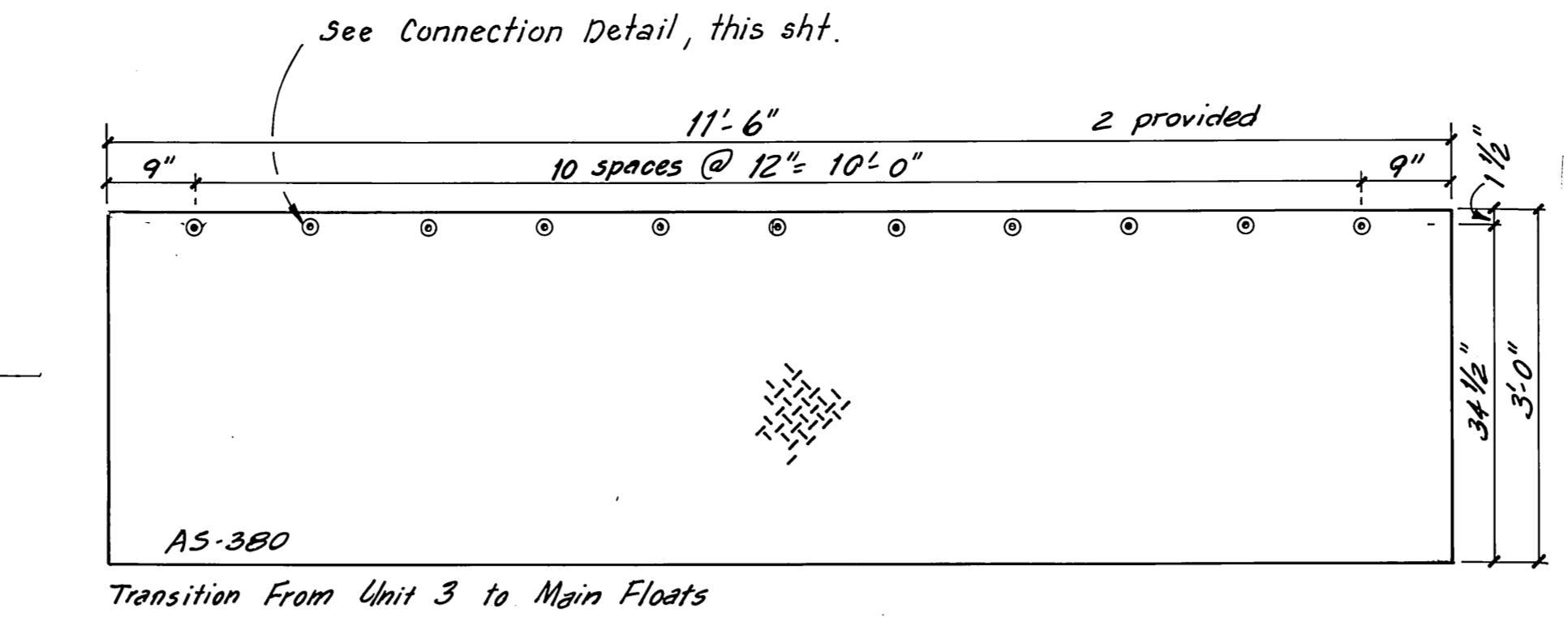
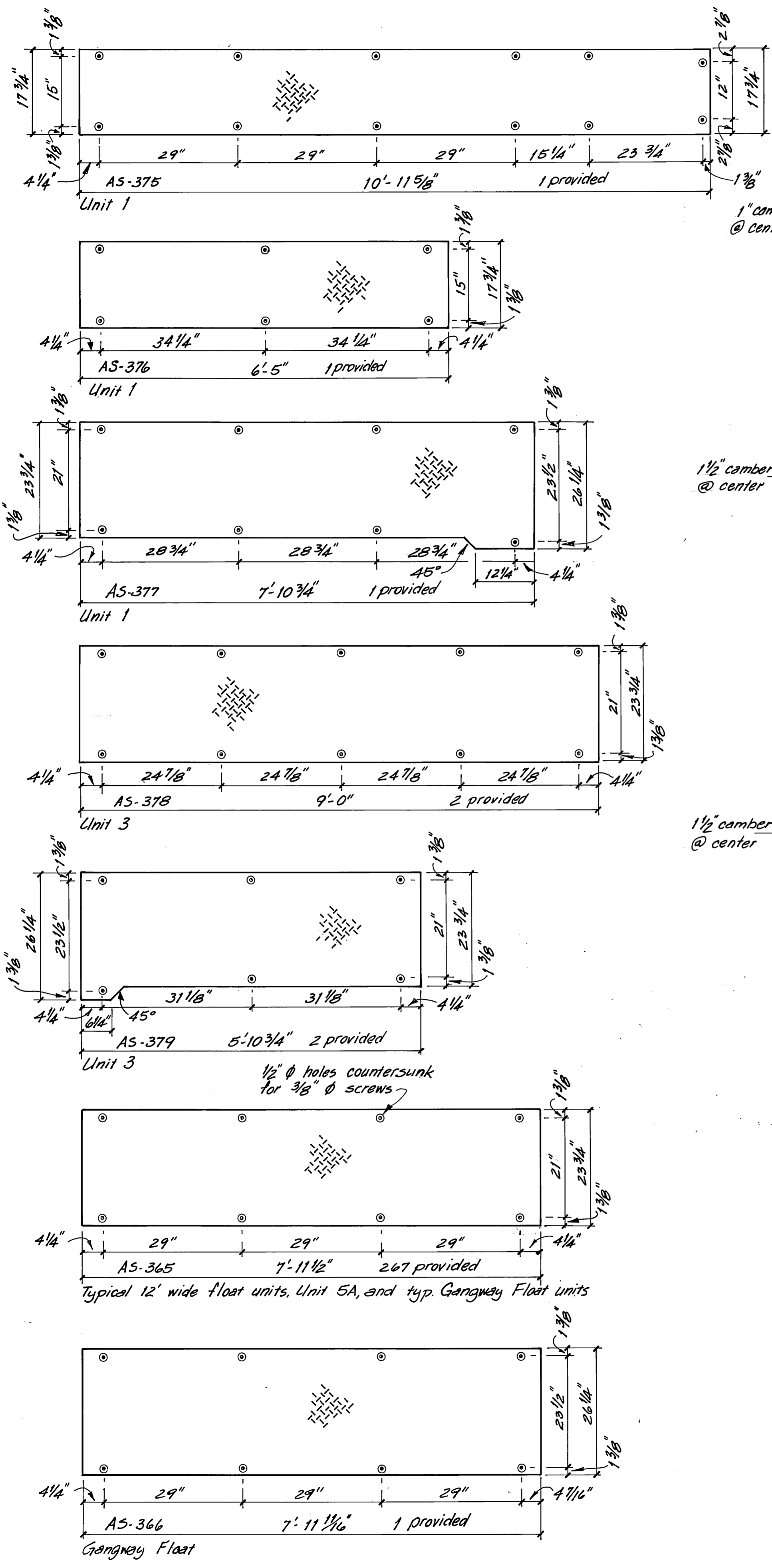
SECTION A
3/4" = 1'-0"



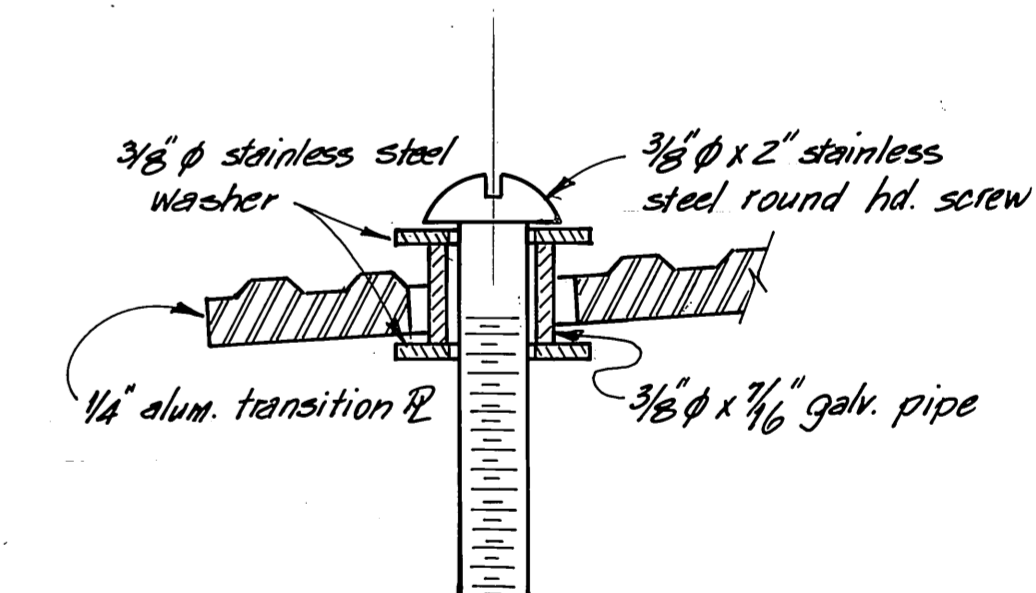
FLOAT CONNECTION HARDWARE
1 1/2" = 1'-0"

M.H.
10/3/87

<p>STAMP</p>	DO NOT SCALE THIS DRAWING - USE DIMENSIONS	
	<p>STATE OF ALASKA DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES DESIGN AND CONSTRUCTION</p> <p>Auke Bay Alaska</p> <p>FLOAT TO BREAKWATER CONNECTION AS FABRICATED</p>	
<p>SCALE: As Noted</p> <p>DESIGNED: HM/JB</p> <p>CHECKED: [Signature]</p> <p>PROJECT NUMBER: 6766A, 6706, 67106</p>	<p>SURVEYED: [Blank]</p> <p>DRAWN: JTM</p> <p>DATE: 11-85</p>	<p>APPROVED: [Blank]</p> <p>SHEET: 28 OF 49</p>



NOTE:
 All coverplates made from 6061-T6 1/4" alum. checker plate. Provided with 1/2" ϕ holes and countersunk for 3/8" ϕ stainless steel flathead screws except plates AS-381, AS-382 and AS-386.
 Plate AS-386 only drilled and countersunk for 1/4" ϕ x 2 1/2" long stainless steel flathead wood screws. Screws to be provided by Contractor. Under this contract.

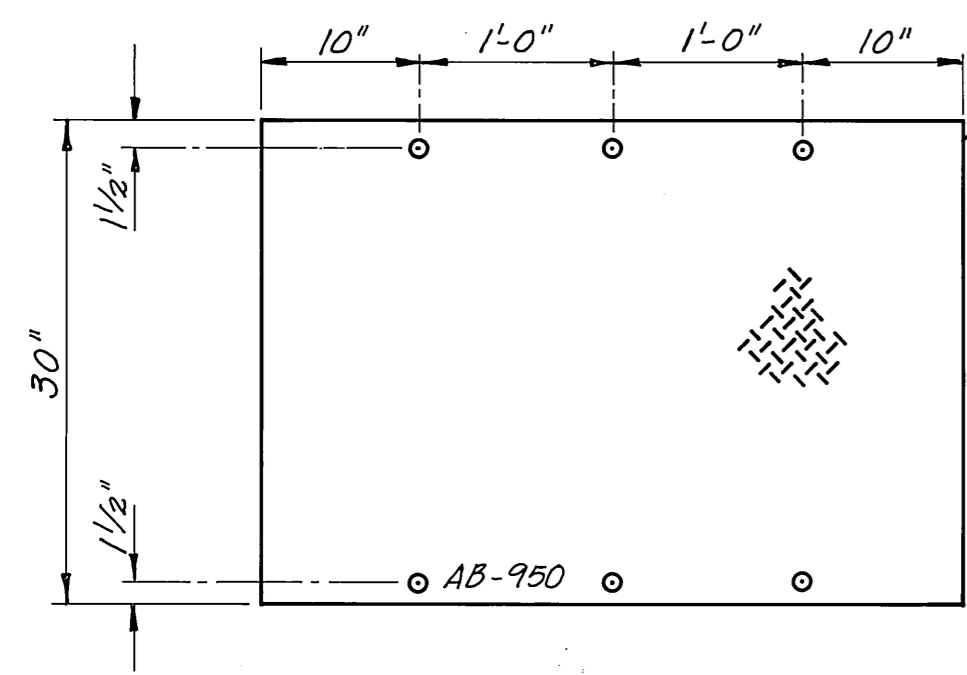
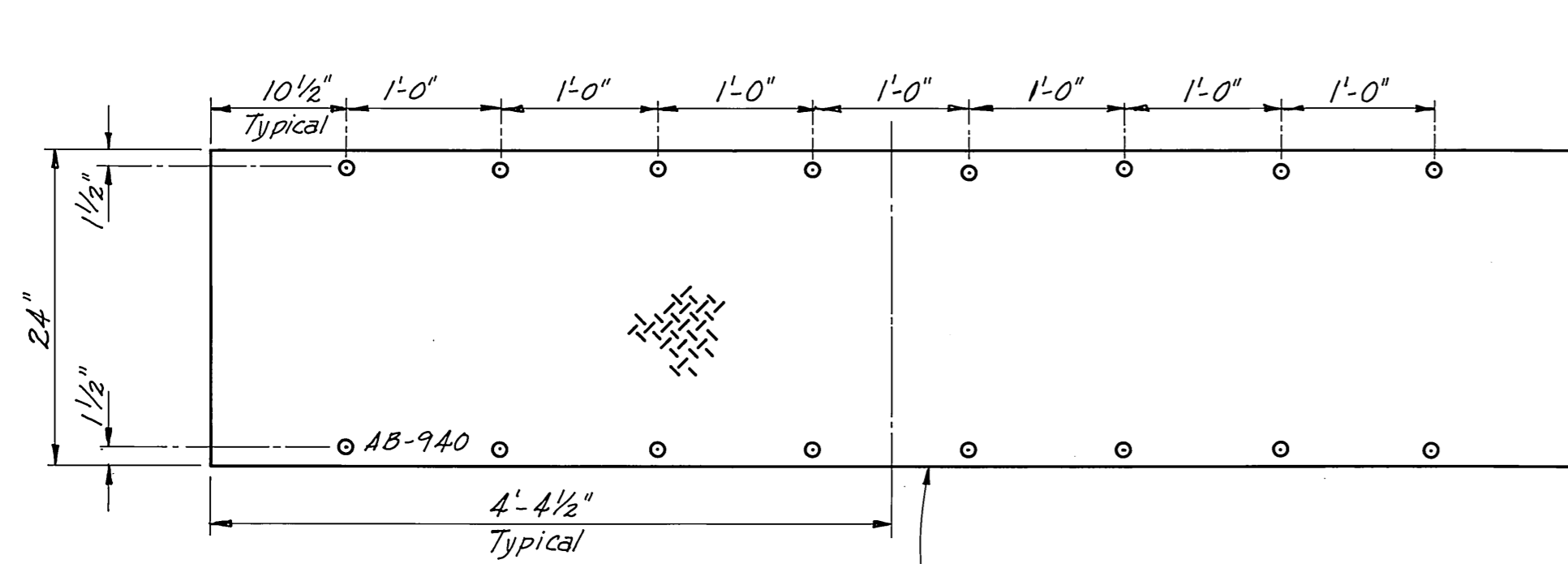


TRANSITION P CONNECTION @ UNIT 3
 12" = 1'-0"

Notes: Plates are fabricated and are labeled as shown, install where noted. Dimensions are subject to minor variations, and are to be used for reference. Fabrication notes are given for reference only.

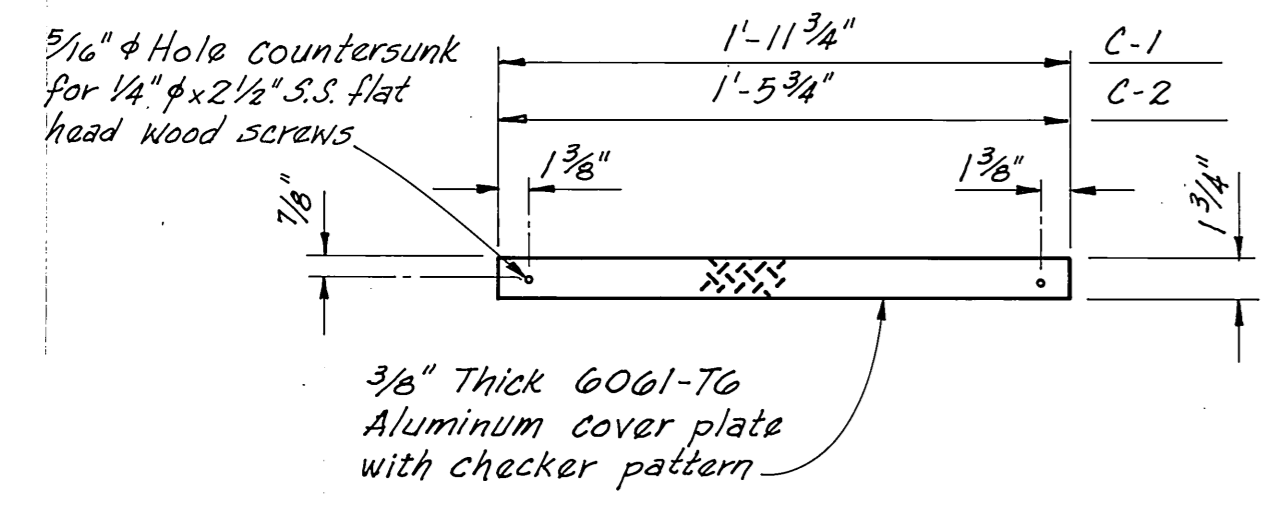
STAMP		DO NOT SCALE THIS DRAWING - USE DIMENSIONS	
		STATE OF ALASKA DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES DESIGN AND CONSTRUCTION	
		Auke Bay Alaska	
COVERPLATE DETAILS			
AS FABRICATED			
SCALE: 3/4" = 1'-0"	DESIGNED: JDB	SURVEYED: JDB	APPROVED:
CHECKED: JDB	DATE: 11-85	DRAWN: JDB	
PROJECT NUMBER: 67664, 69016, 69106		SHEET 29 OF 49	

M. H.
 10-3-87

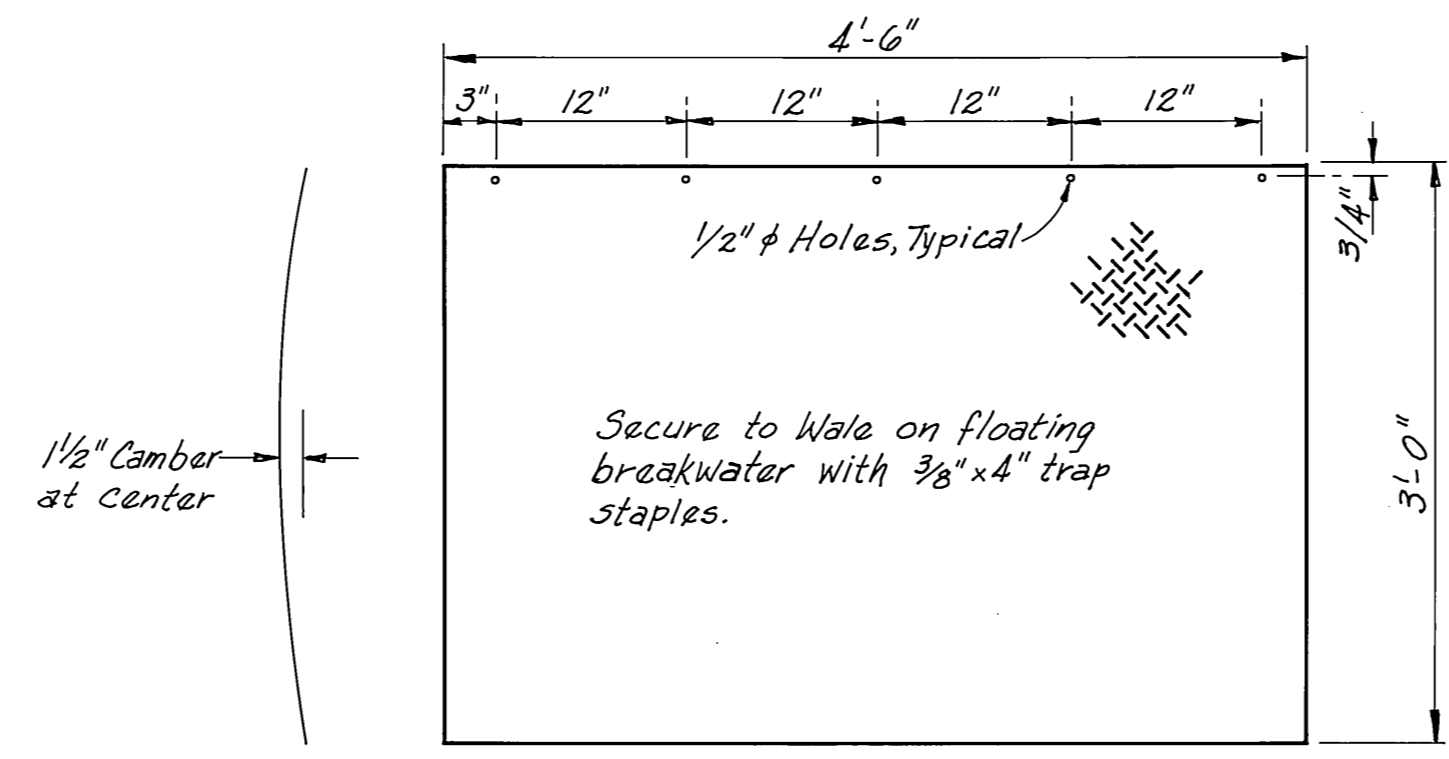


Utilities float coverplates to be made from 6061-T6 1/4" Aluminum checker plate. Provide with 1/2" ϕ holes and countersunk for 3/8" ϕ stainless steel flathead screws. Each plate to be stamped or tag numbered.

UTILITIES FLOAT COVER PLATES
1" = 1'-0"

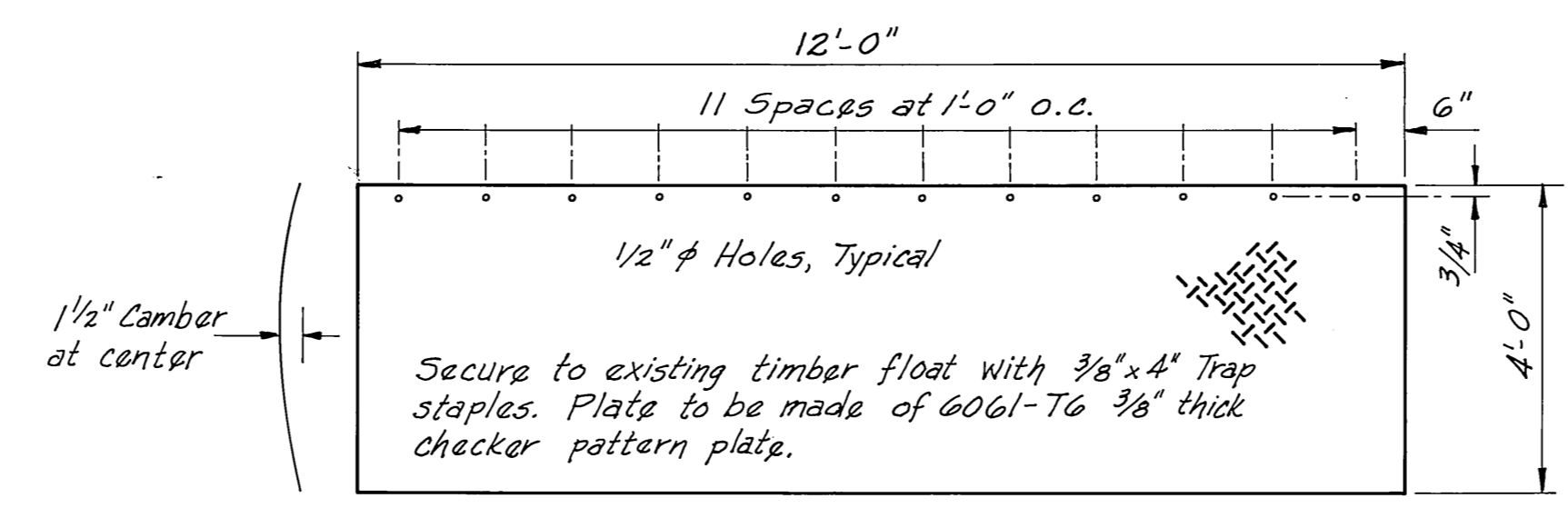


COVER $\#$ DETAIL FOR UTILITY TRENCH GAP BETWEEN FLOATS
1 1/2" = 1'-0"
(See sheet 32 for details)

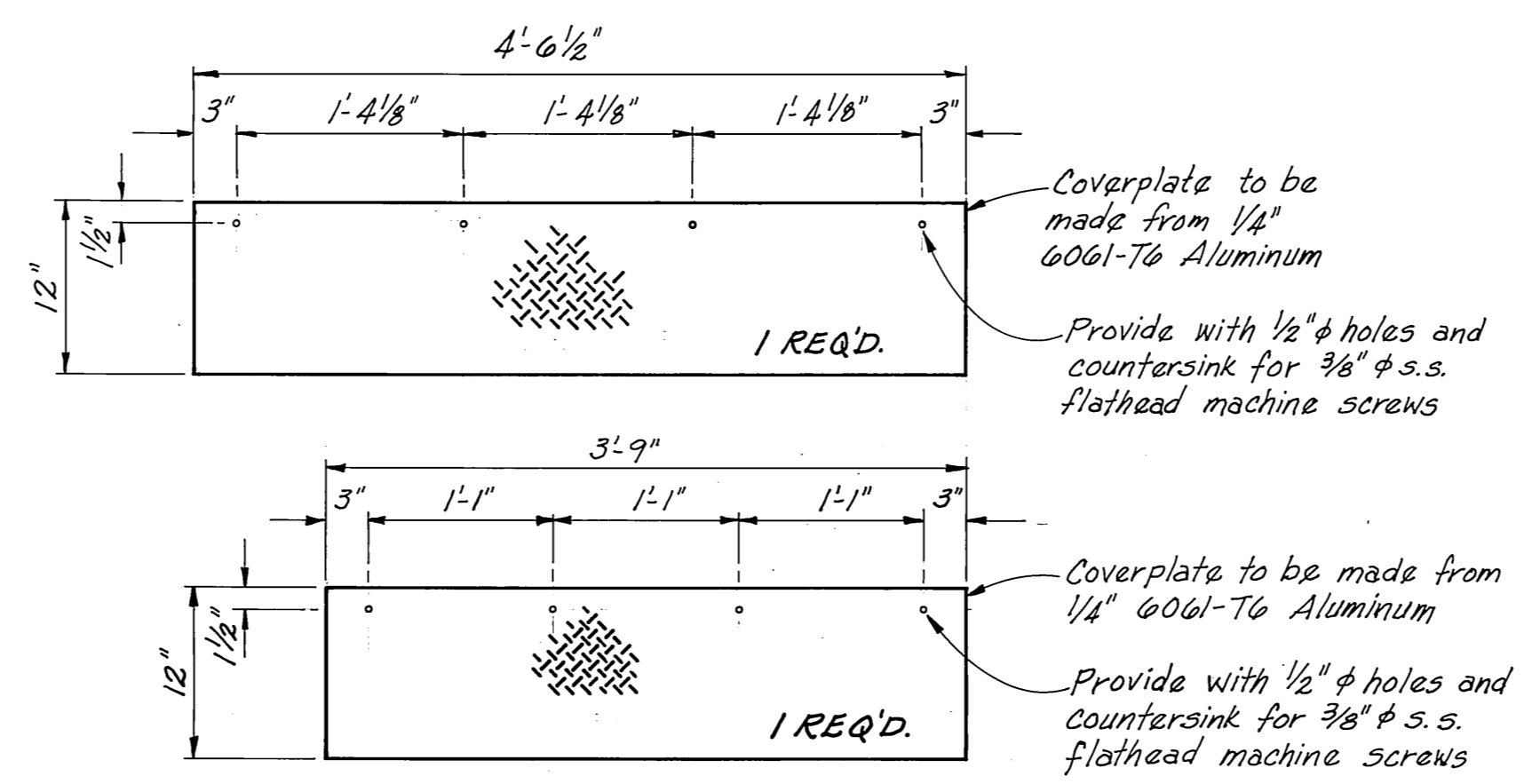


TRANSITION $\#$ ON BREAKWATER
1" = 1'-0"

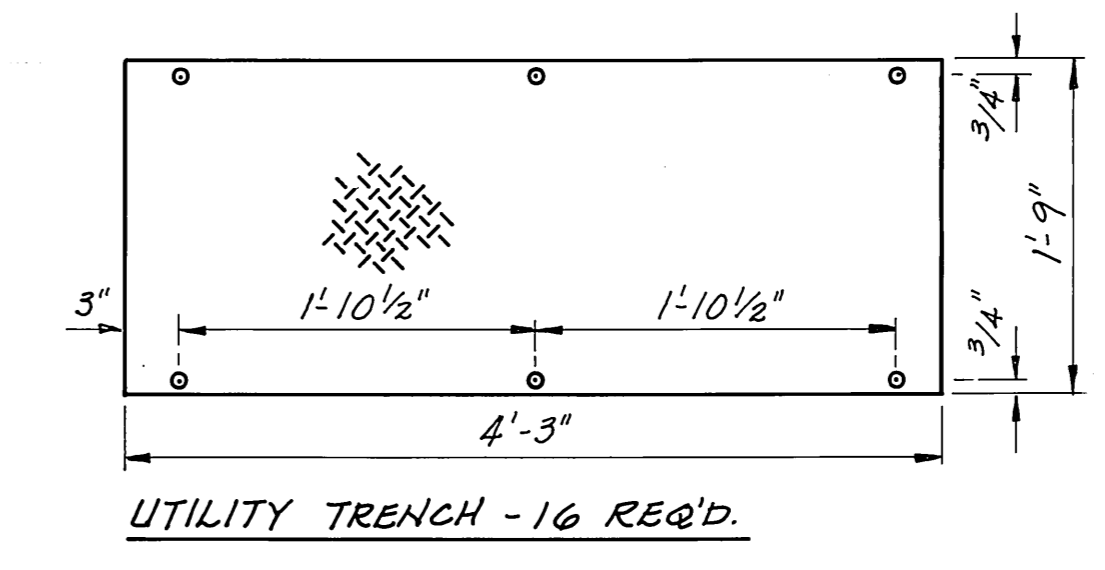
(6 Required between 240' breakwater units, made of 6061-T6 3/8" thick plate with checker pattern slip resistant surface, typical. See sheet (3) for general location of plates.)



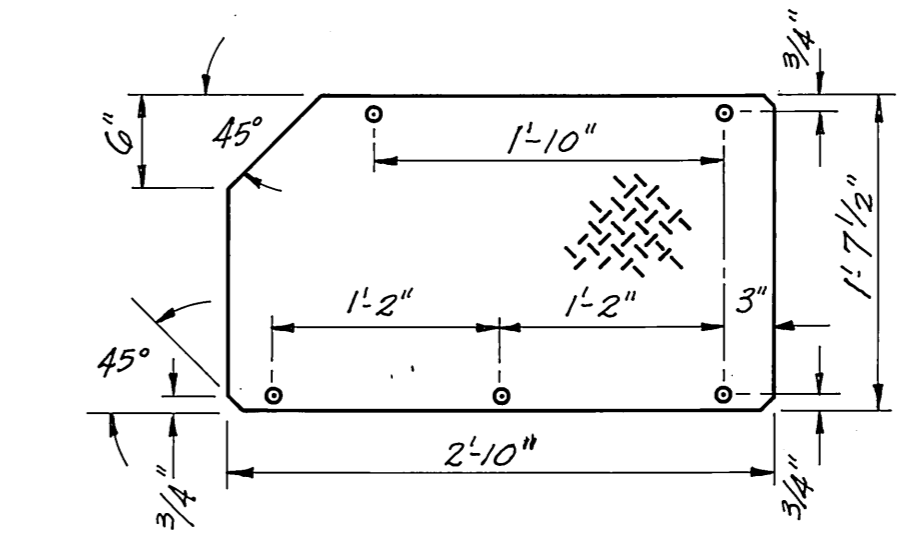
TRANSITION $\#$ FROM EXIST. TIMBER FLOAT
1/2" = 1'-0"



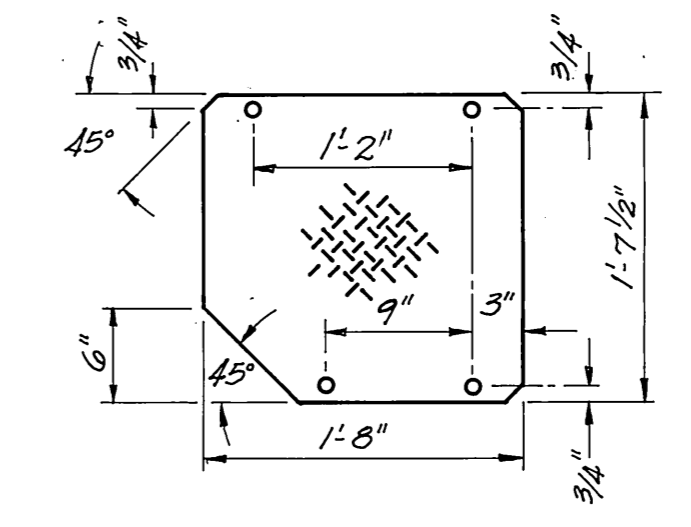
COVER $\#$ DETAILS FOR 6" GAP BETWEEN SEWAGE PUMP-OUT FLOAT SEGMENTS
1" = 1'-0"



UTILITY TRENCH - 16 REQ'D.



BOLT HATCH - 16 REQ'D.



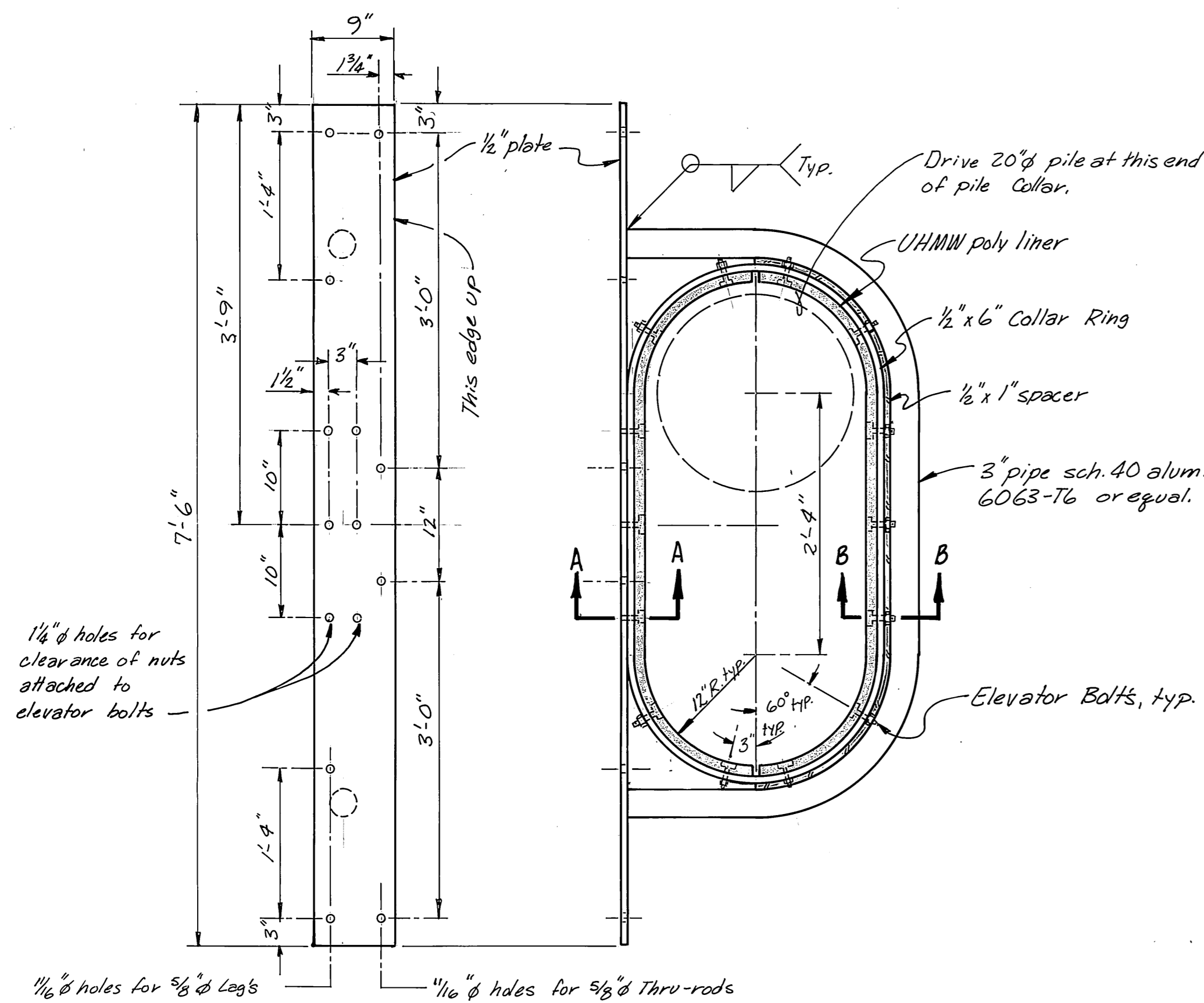
NUT HATCH - 16 REQ'D.

TENSIONING UNIT COVER PLATES
1" = 1'-0"

- NOTES:
1. Tensioning unit coverplates are to be made from 6061-T6 1/4" Aluminum checker plate.
 2. Provide plates with 3/16" ϕ holes, and countersunk for 1/4" x 2 1/2" long stainless steel flathead wood screws.

M.H.
10/13/87

STAMP		DO NOT SCALE THIS DRAWING - USE DIMENSIONS	
STATE OF ALASKA DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES			
Auke Bay		Alaska	
COVER PLATES To Be Fabricated			
DESIGNED	CHECKED	DRAWN BWB	DATE
PROJECT NUMBER 67604, 69016, 69106	SHEET 30		OF 49

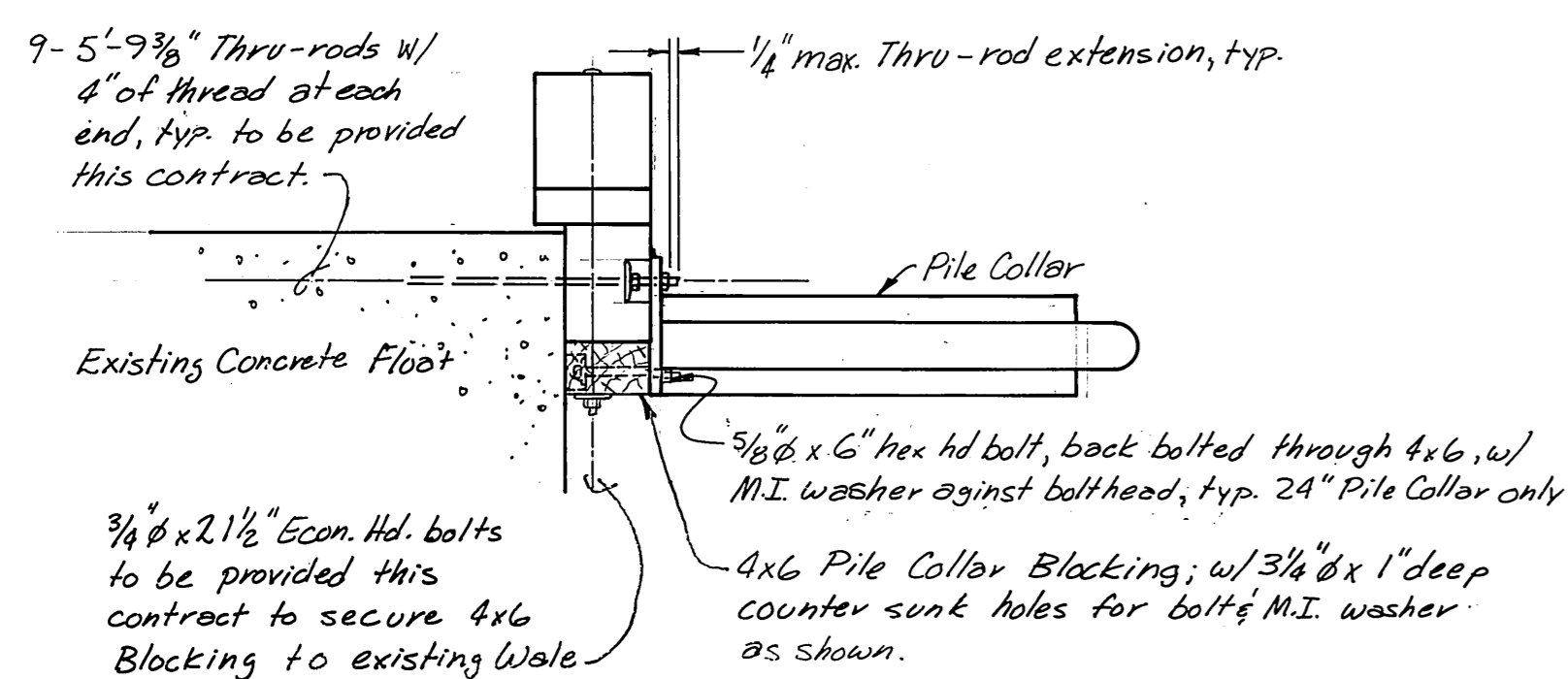


BACKING PLATE
1"=1'-0"

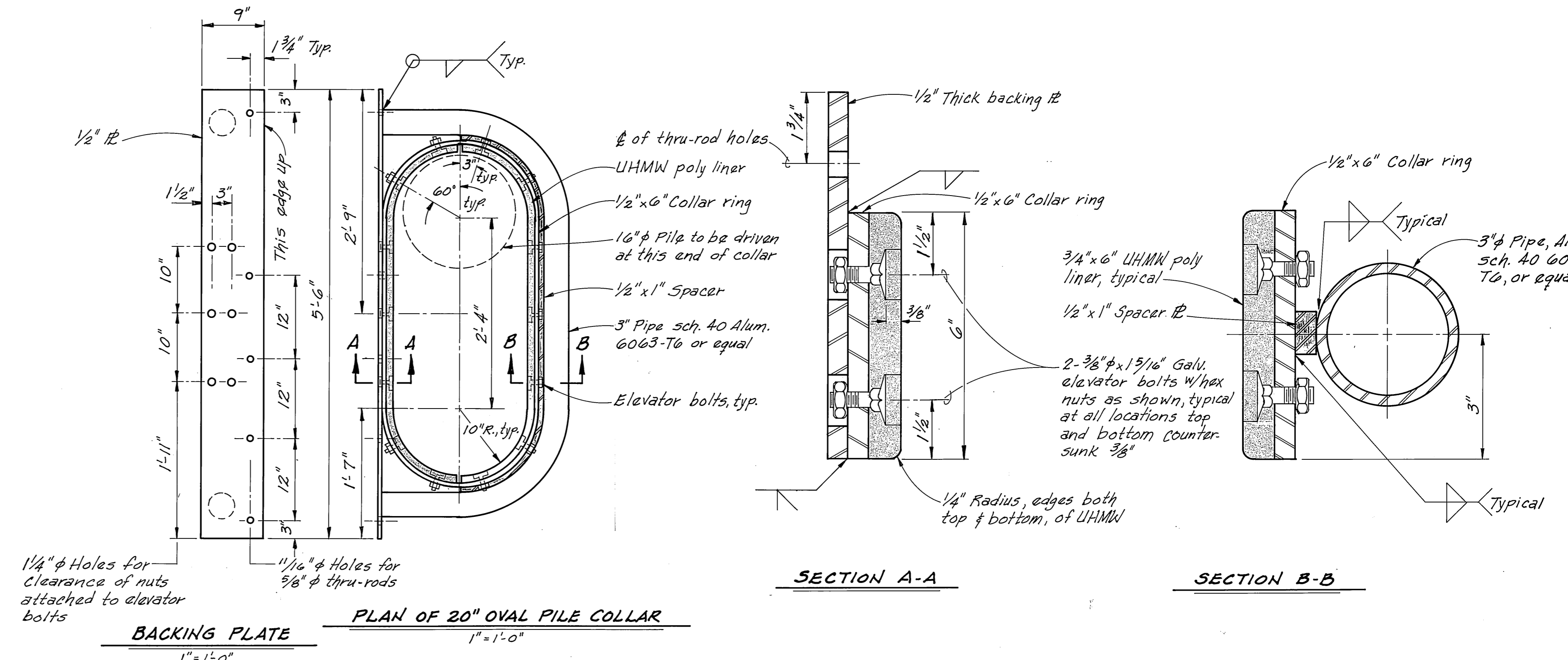
PLAN of 24" OVAL PILE COLLAR
1"=1'-0"

24" OVAL PILE COLLAR DETAILS.

- NOTES:
- All welds inside pile collar ring to be ground smooth.
 - 3/4" x 6" UHMW Polyliner, as shown, to be hot molded to the proper radius and attached to collar ring with 14 Elevator Bolts per half collar.
 - All plate and spacer to be 6061-T6 Alum. or equal. Pipe to be 6063-T6 or equal.
 - Fabricator is to pre-assemble all components to assure proper fit.
 - Pile Collar to be positioned on float DD42 as shown on sht. 10.
 - Pile to be driven where shown after all chains have been tensioned.



TYPICAL SIDE ELEVATION

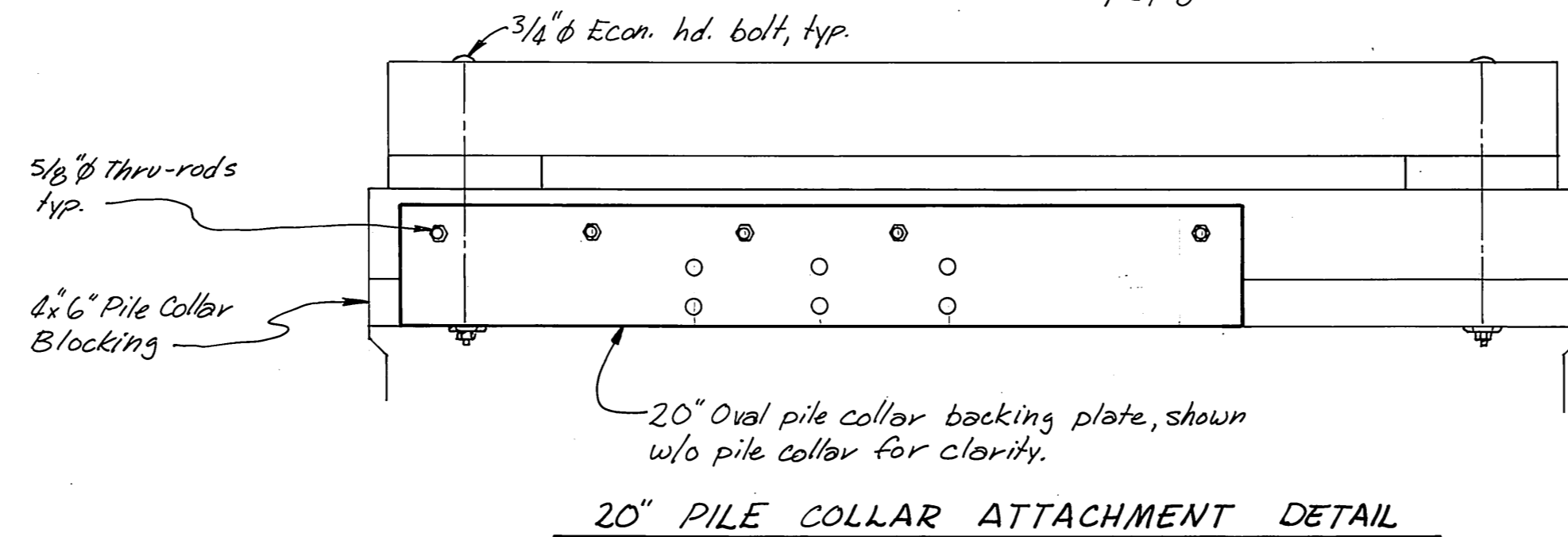


BACKING PLATE
1"=1'-0"

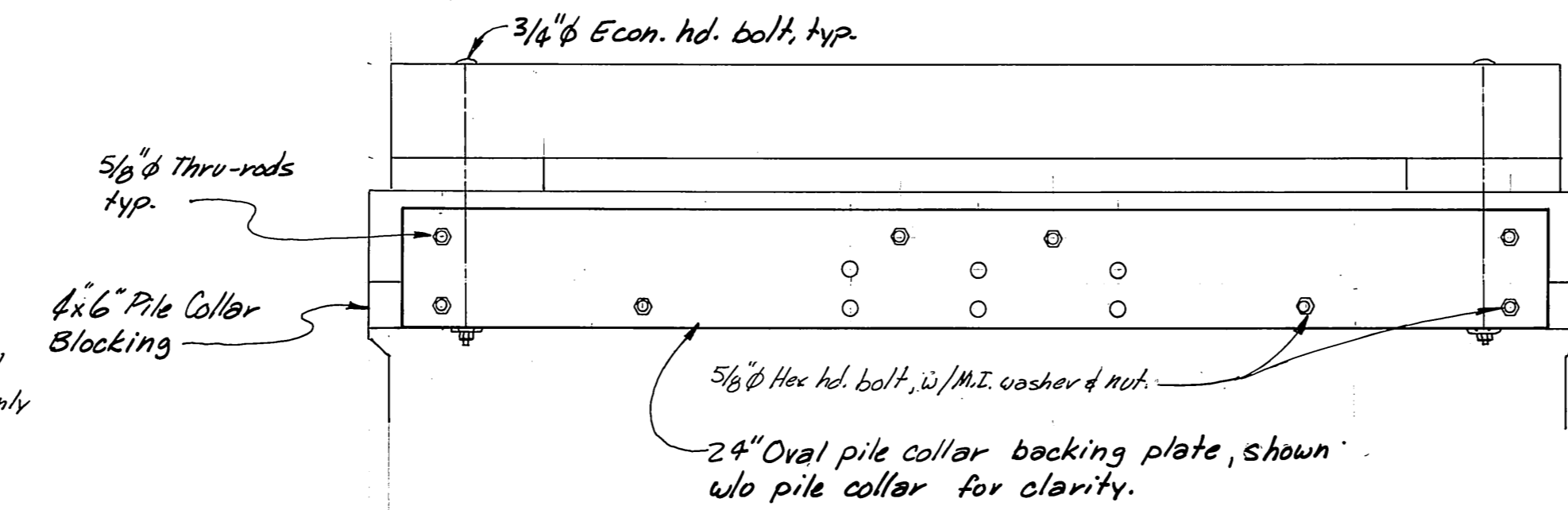
PLAN OF 20" OVAL PILE COLLAR
1"=1'-0"

20" OVAL PILE COLLAR DETAILS

- NOTES:
- All welds inside pile collar ring to be ground smooth.
 - 3/4" x 6" UHMW poly liner, as shown, to be hot molded to the proper radius and attached to collar ring with 14 elevator bolts per half collar.
 - Fabricator is to pre-assemble all components to assure proper fit.
 - All plate and spacer are to be Aluminum 6061-T6 or equal. Pipe to be Aluminum 6063-T6 or equal.
 - Pile to be driven as shown after all chains have been tensioned.
 - Pile collar to be positioned as shown on sheet 11.



20" PILE COLLAR ATTACHMENT DETAIL

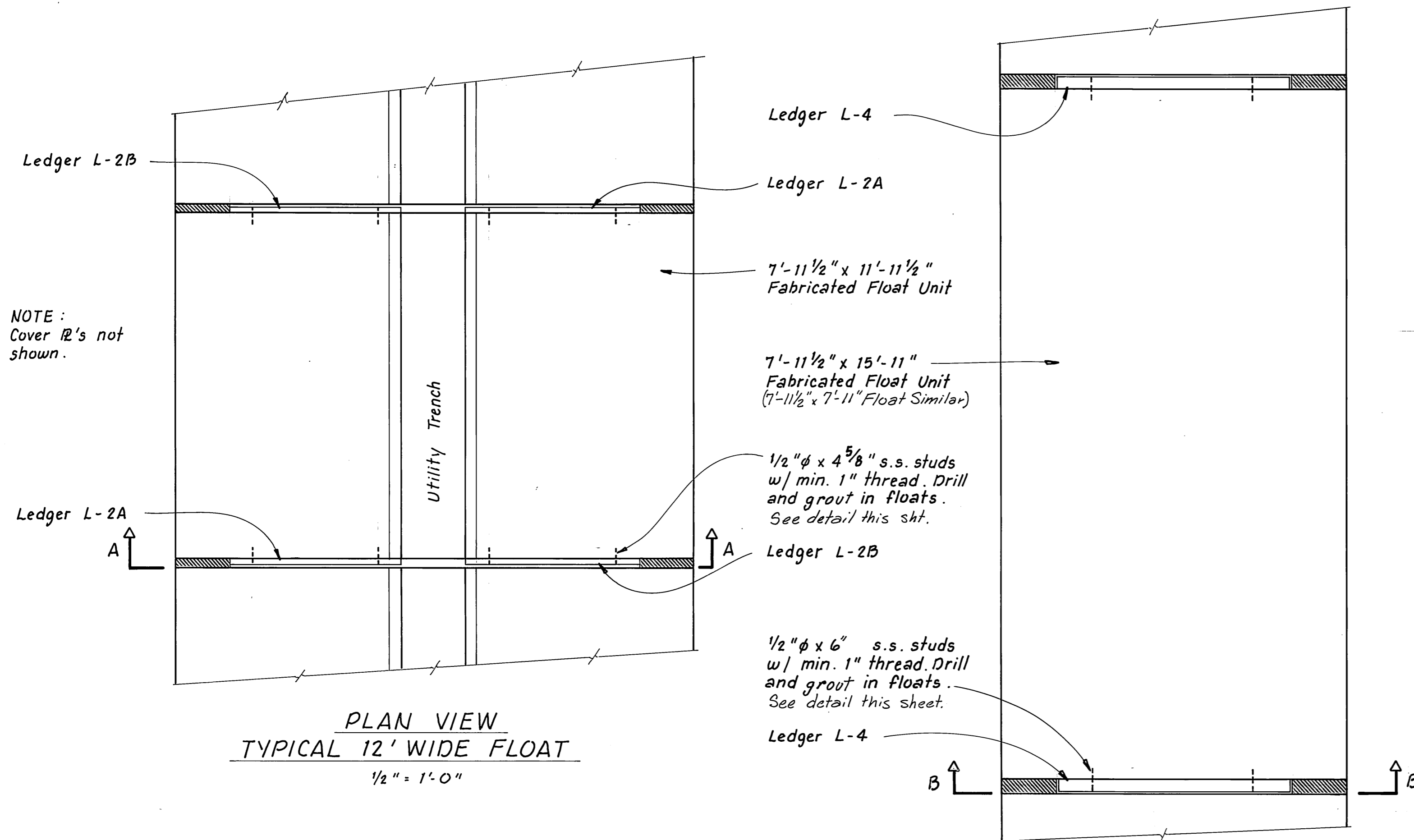


24" PILE COLLAR ATTACHMENT DETAIL

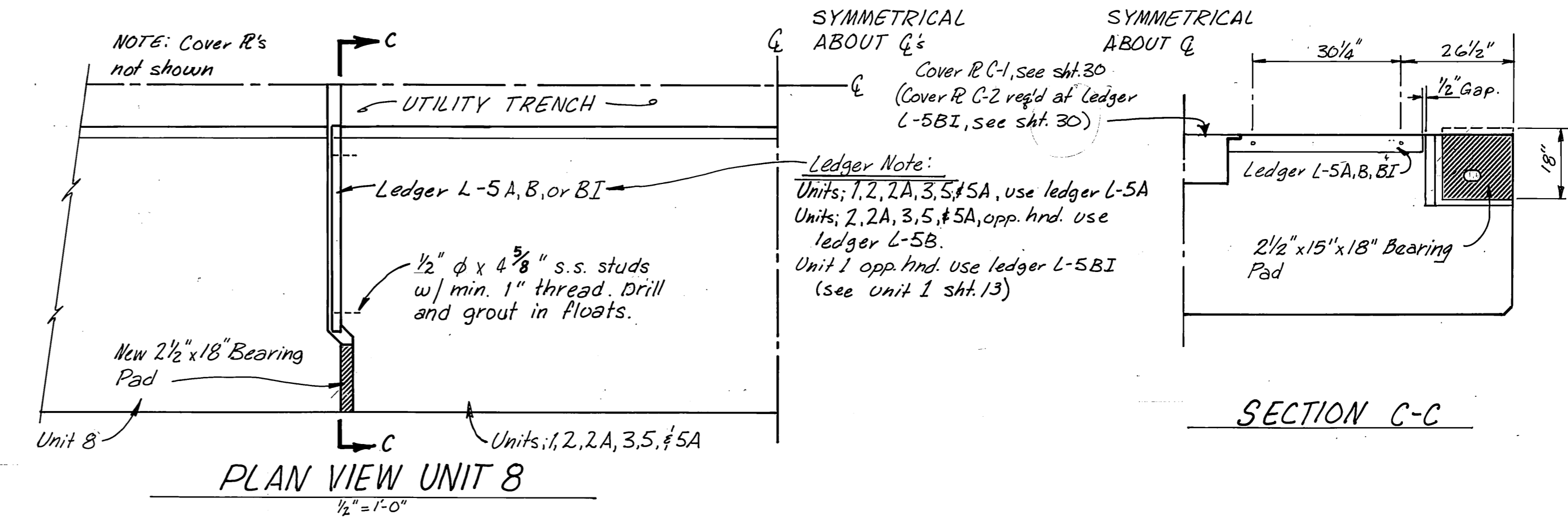
M.H.
10/3/87

STAMP		DO NOT SCALE THIS DRAWING - USE DIMENSIONS	
STATE OF ALASKA			
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES			
Auke Bay		Alaska	
20" & 24" OVAL PILE COLLAR ATTACHMENT DETAILS			
DESIGNED DJM	CHECKED [Signature]	DRAWN DJM	DATE 5-86
PROJECT NUMBER 67664, 69016, & 69106	SHEET 31		OF 49

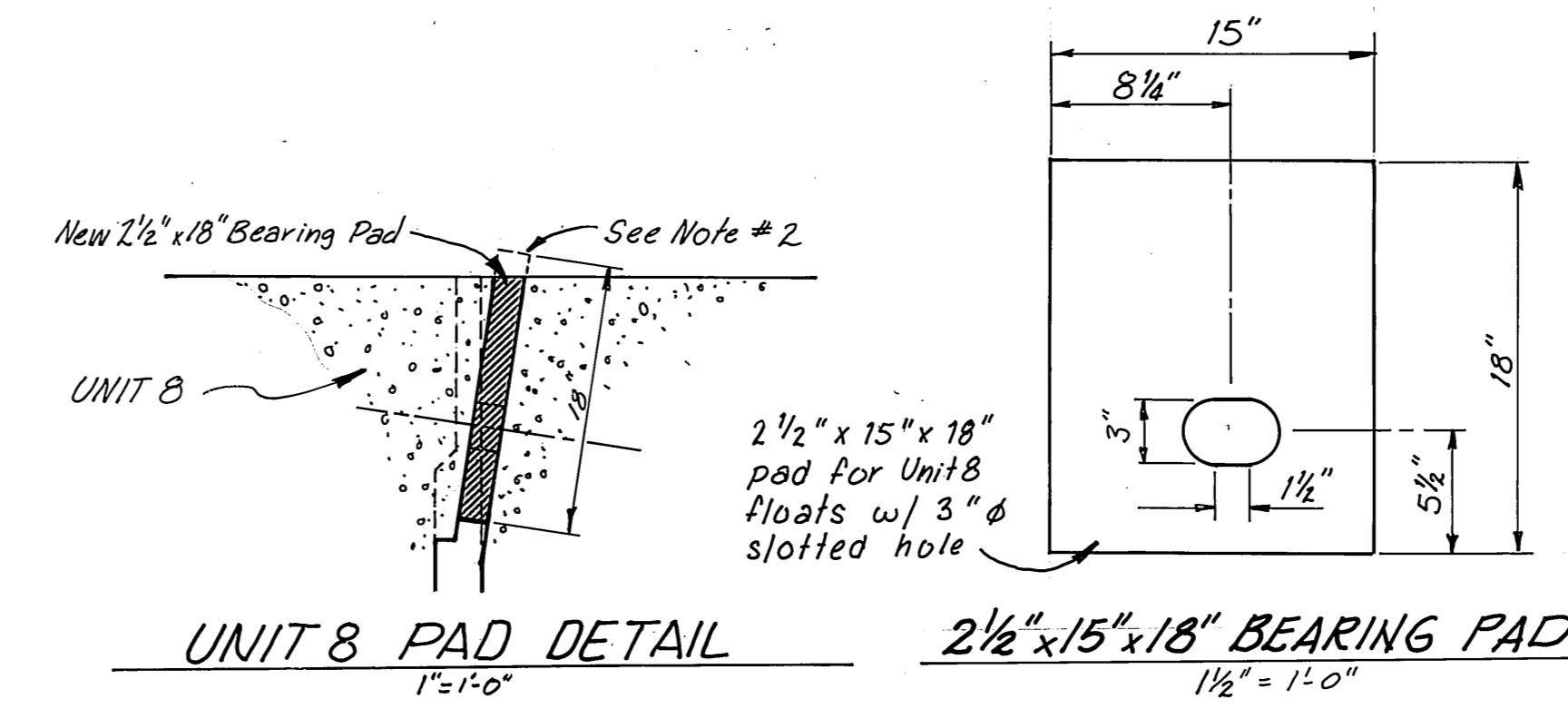
NOTE: Cover R's not shown.



PLAN VIEW
TYPICAL 12' WIDE FLOAT
1/2" = 1'-0"



PLAN VIEW UNIT 8
1/2" = 1'-0"

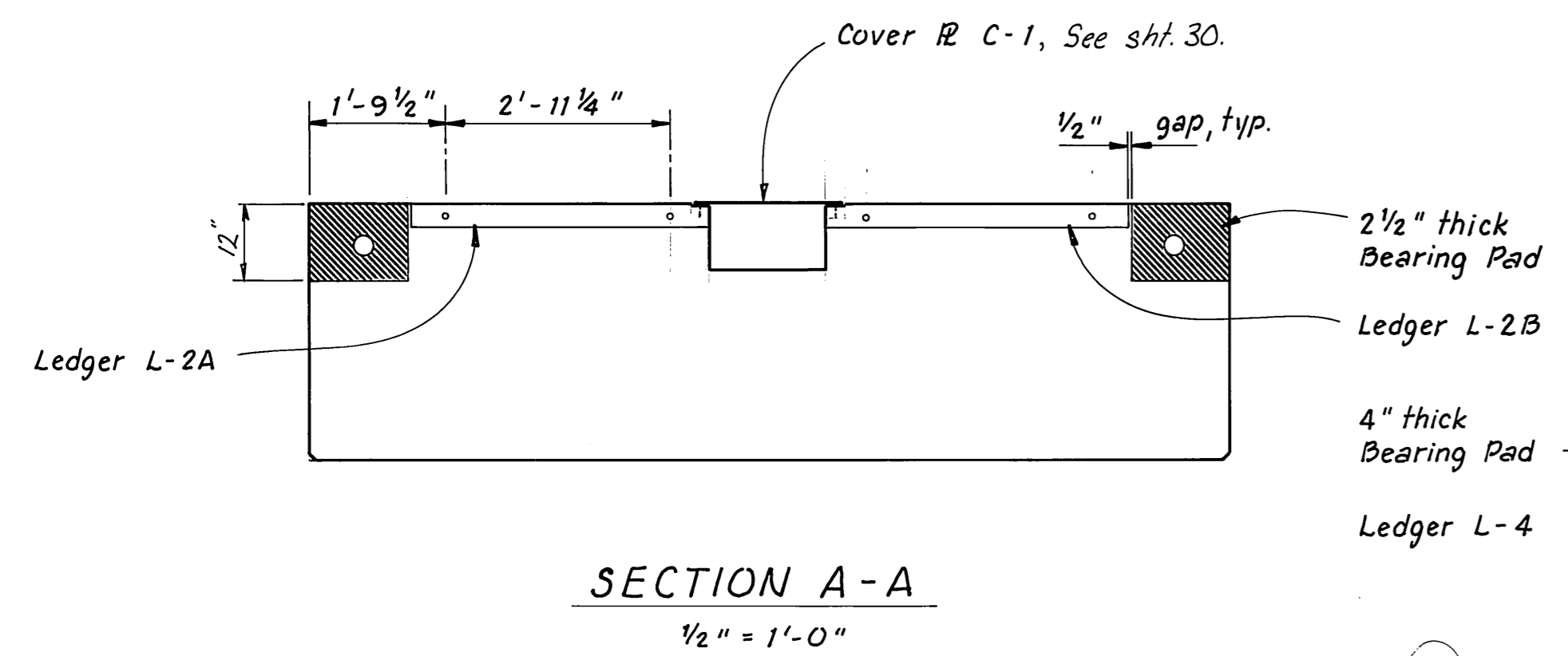


UNIT 8 PAD DETAIL
1" = 1'-0"

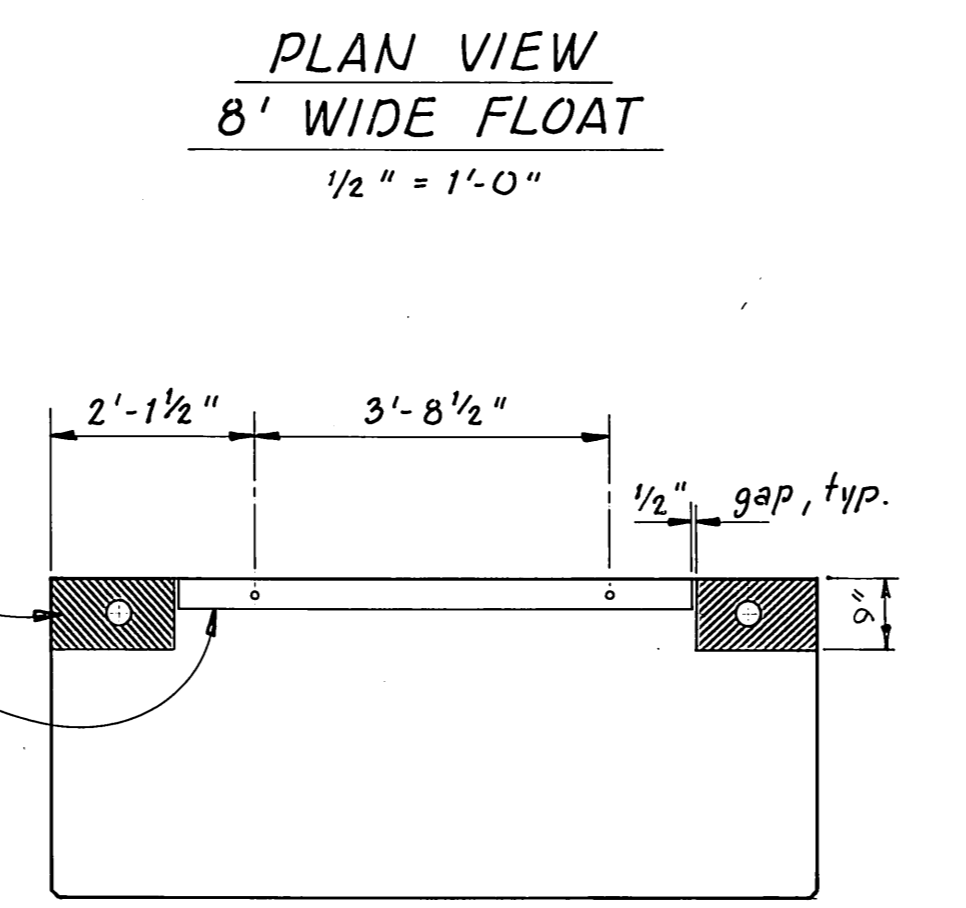
2 1/2" x 15" x 18" BEARING PAD
1/2" = 1'-0"

GENERAL NOTES

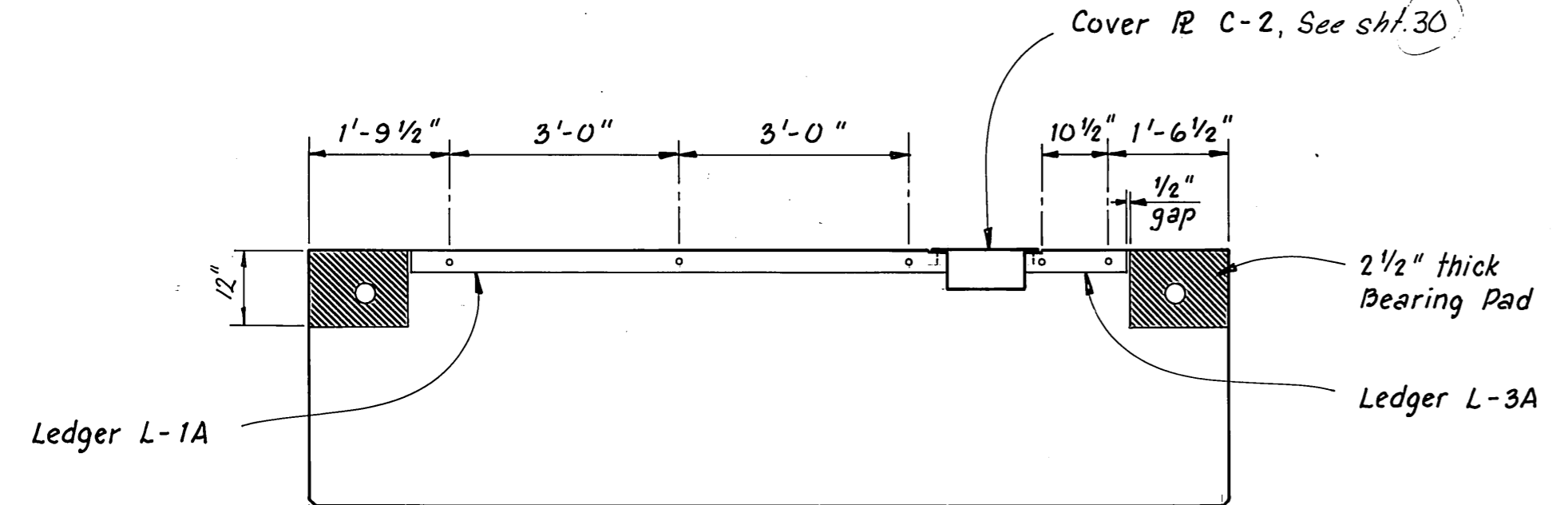
- S.S. Studs to be installed after test tensioning, bearing area repairs.
- Trim Pad flush with float deck after final tensioning using a heavy duty Power Hacksaw, with a 24" ATPI Blade, or other method approved by Engineer.
- Timber ledgers to be mounted flush with concrete deck.
- Timber ledgers shall be installed between all float units. It shall be a contractors option to install ledgers at both ends of alternate float units or to install at one end of every unit.
- Timber ledgers shall be installed after the proper assembly sequence has been determined and after the stress test has been performed.
- For details of existing float units see sheets 17, 18 & 19.
- Timber tiedown rail and wales not shown.
- A jig or form shall be used to insure proper stud spacing and alignment.



SECTION A-A
1/2" = 1'-0"

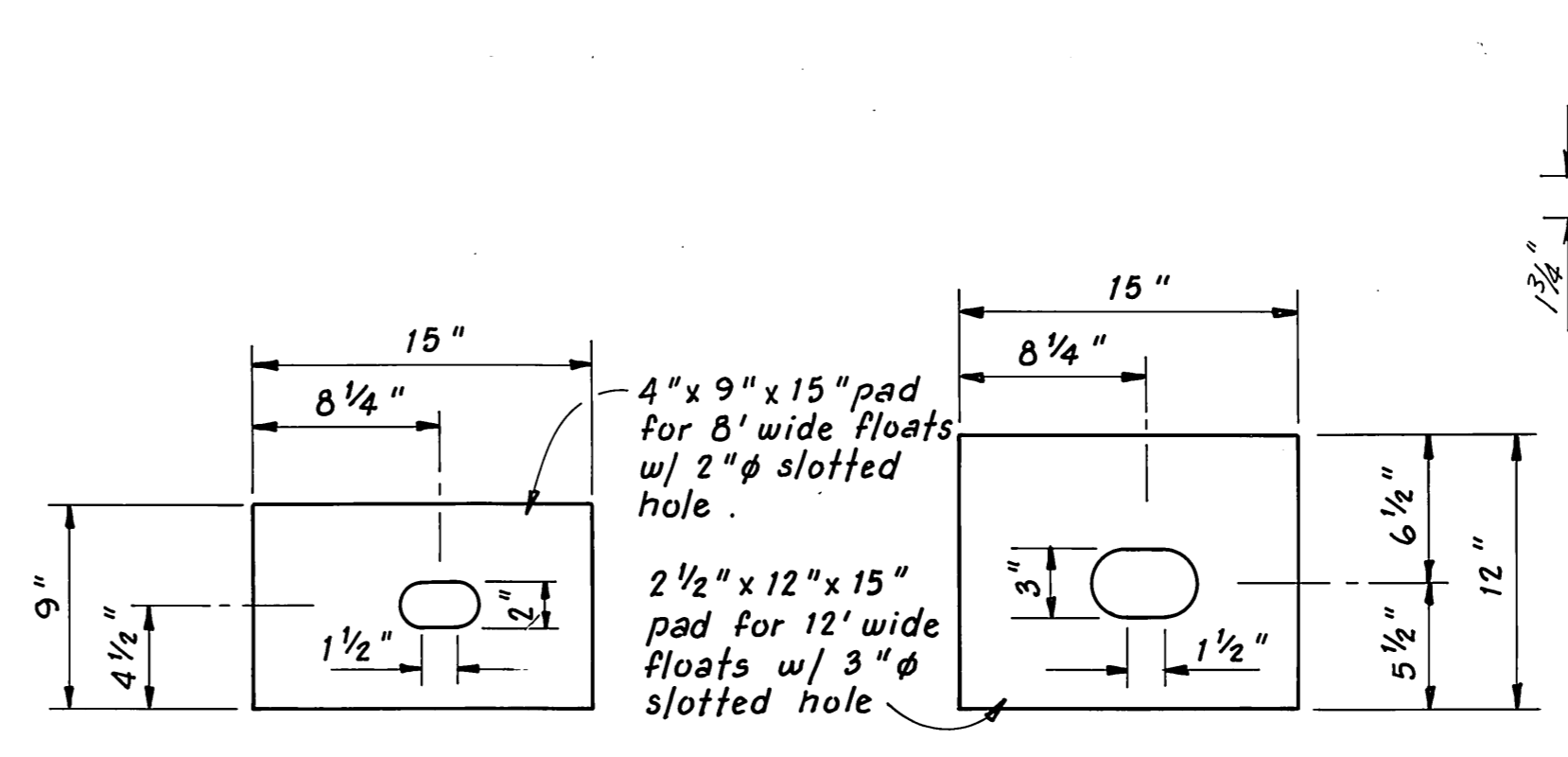


SECTION B-B
1/2" = 1'-0"

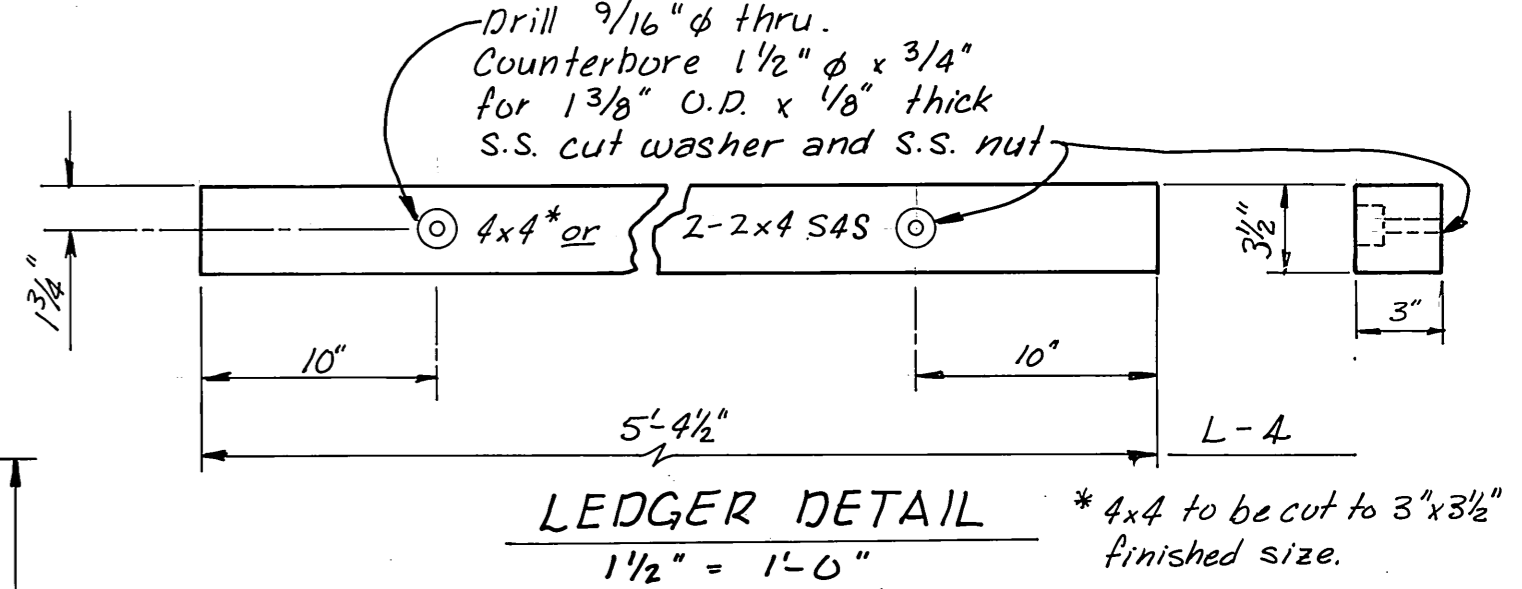


USCG FLOAT
(SECTION A-A)
1/2" = 1'-0"

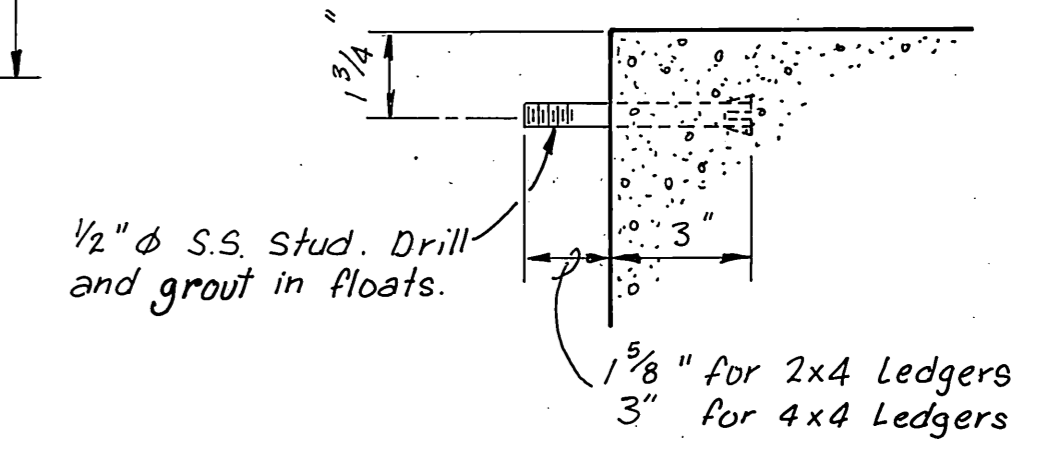
NOTE: For details of USCG Float, see sheet 17.



BEARING PADS
1/2" = 1'-0"



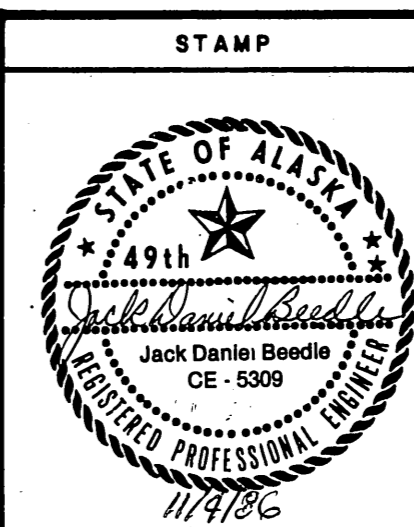
LEDGER DETAIL
1/2" = 1'-0"



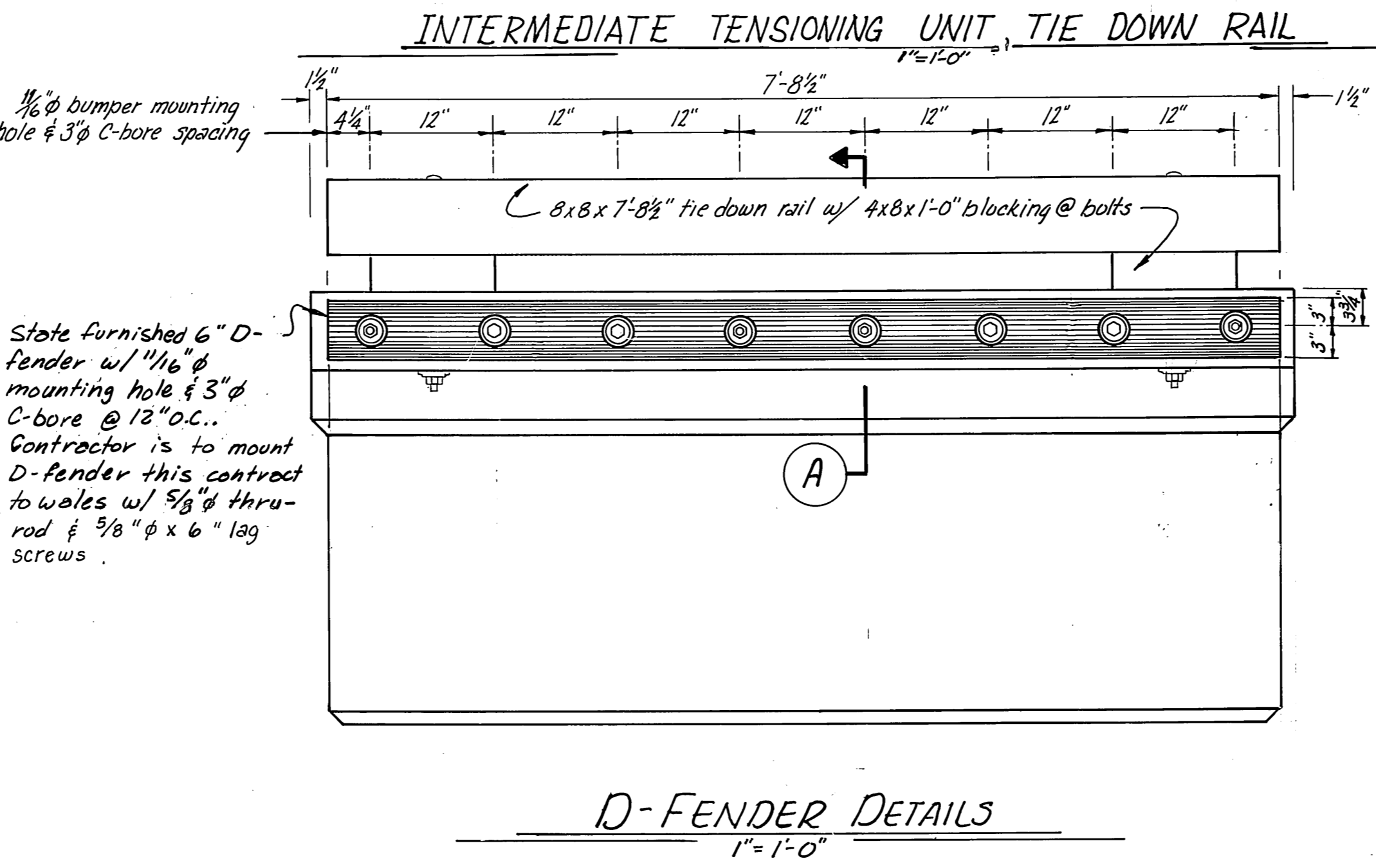
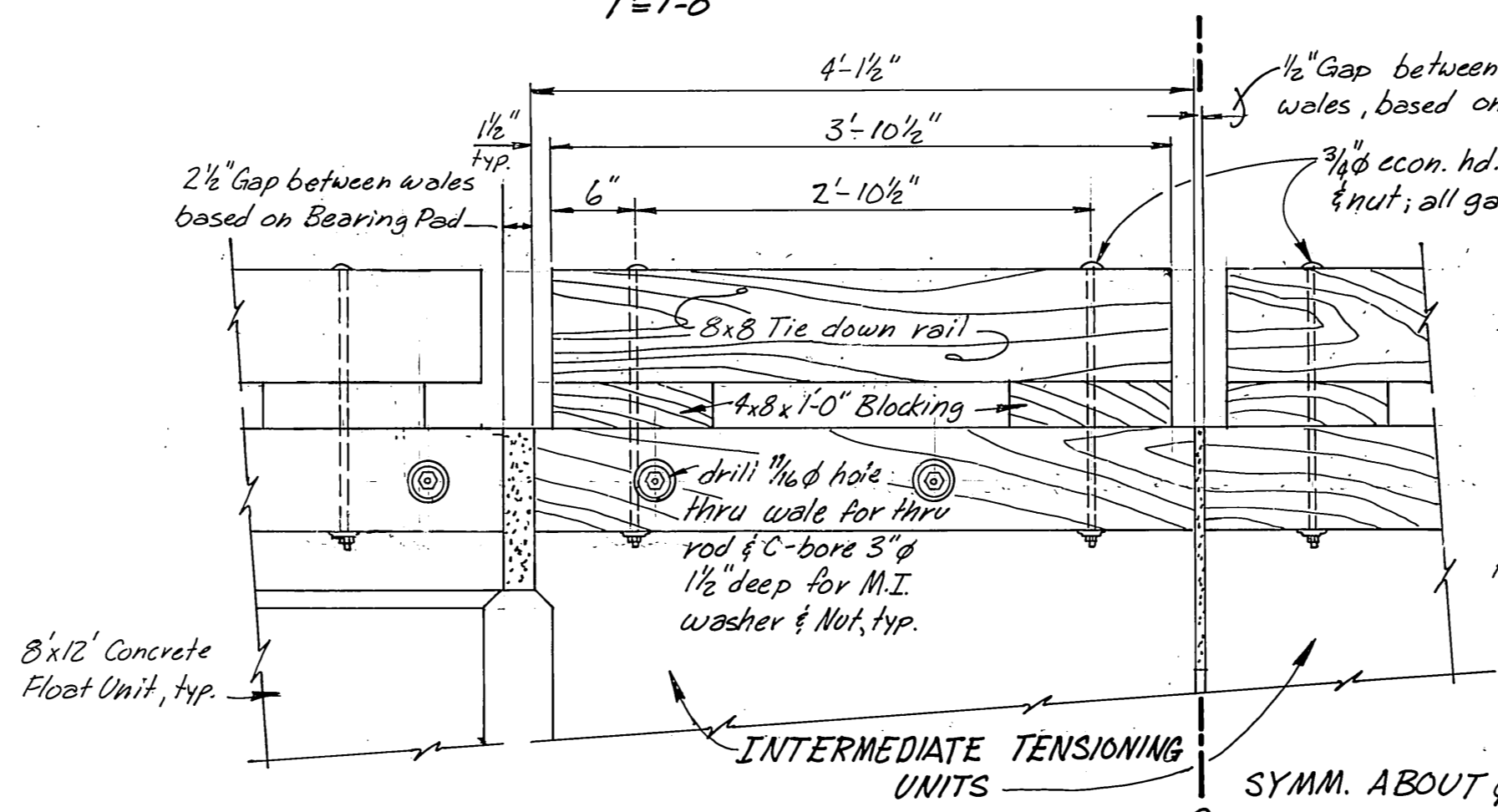
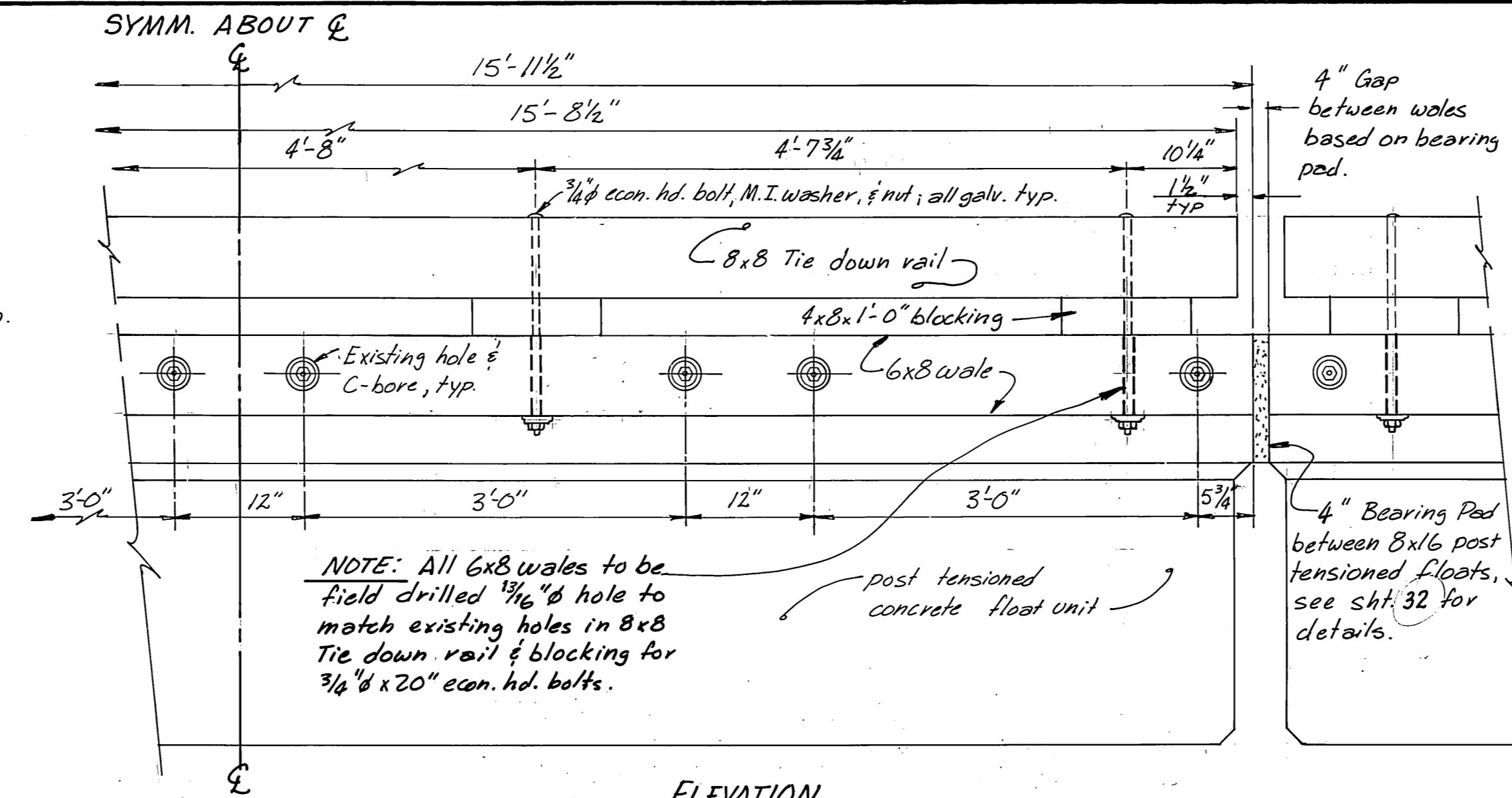
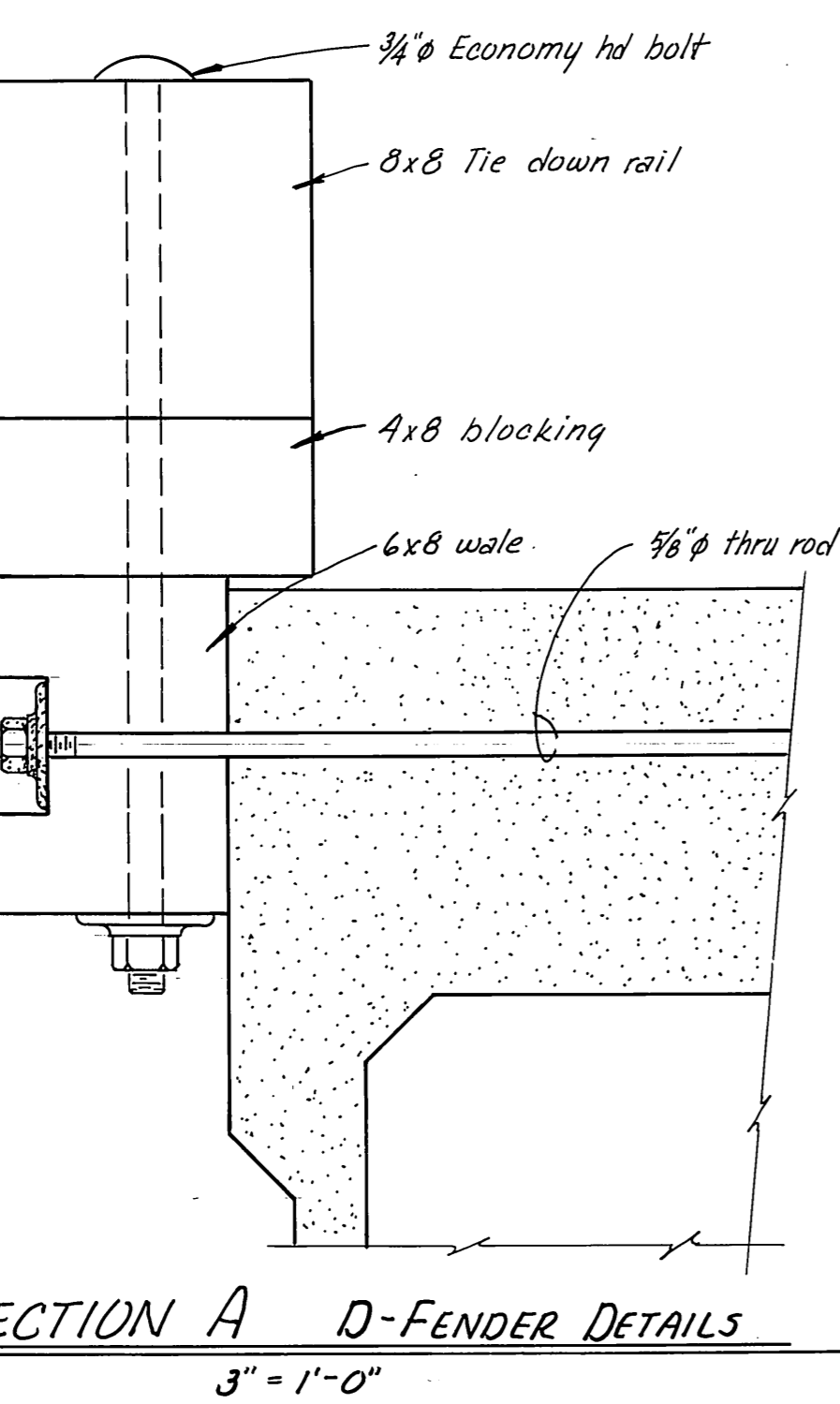
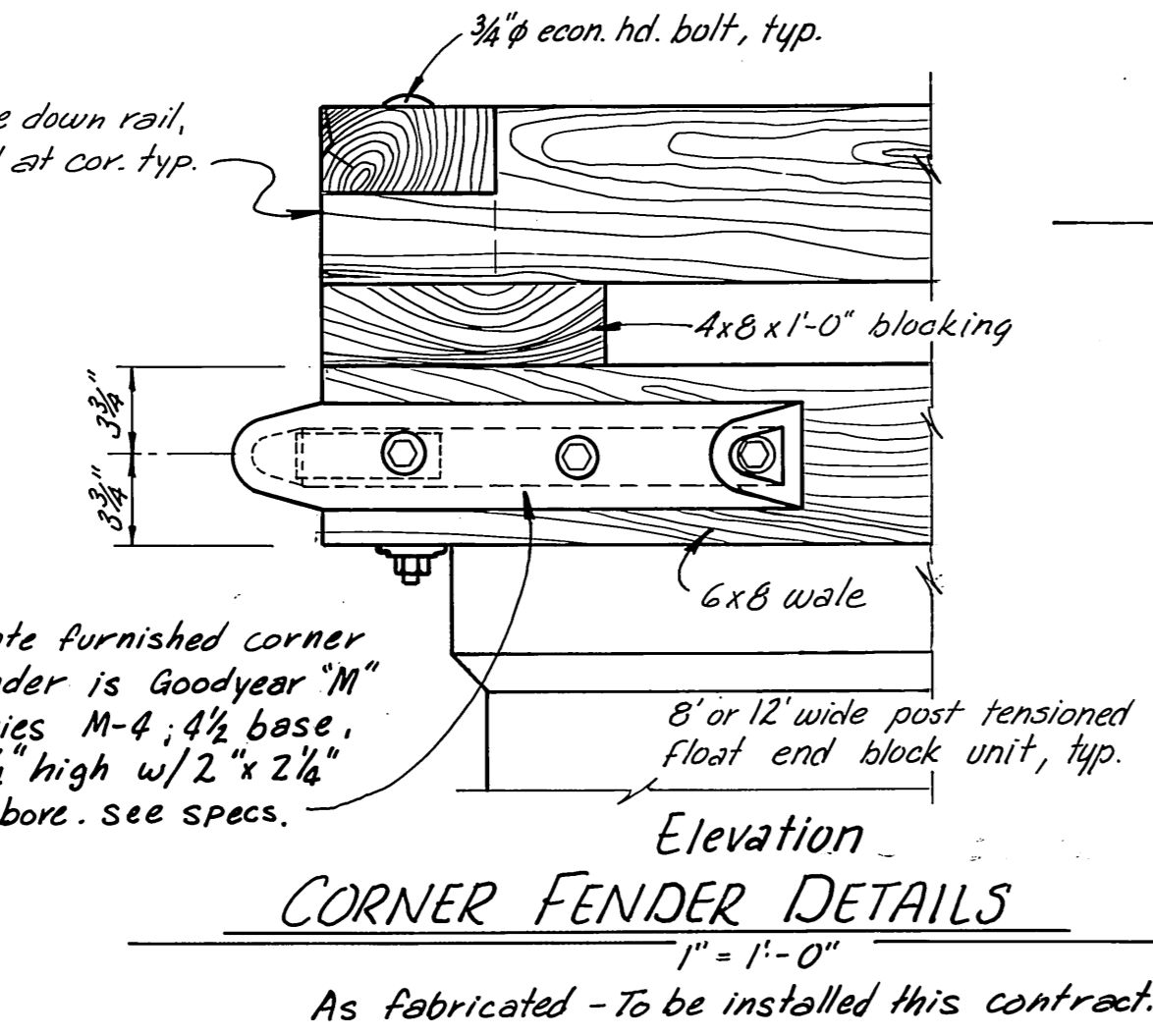
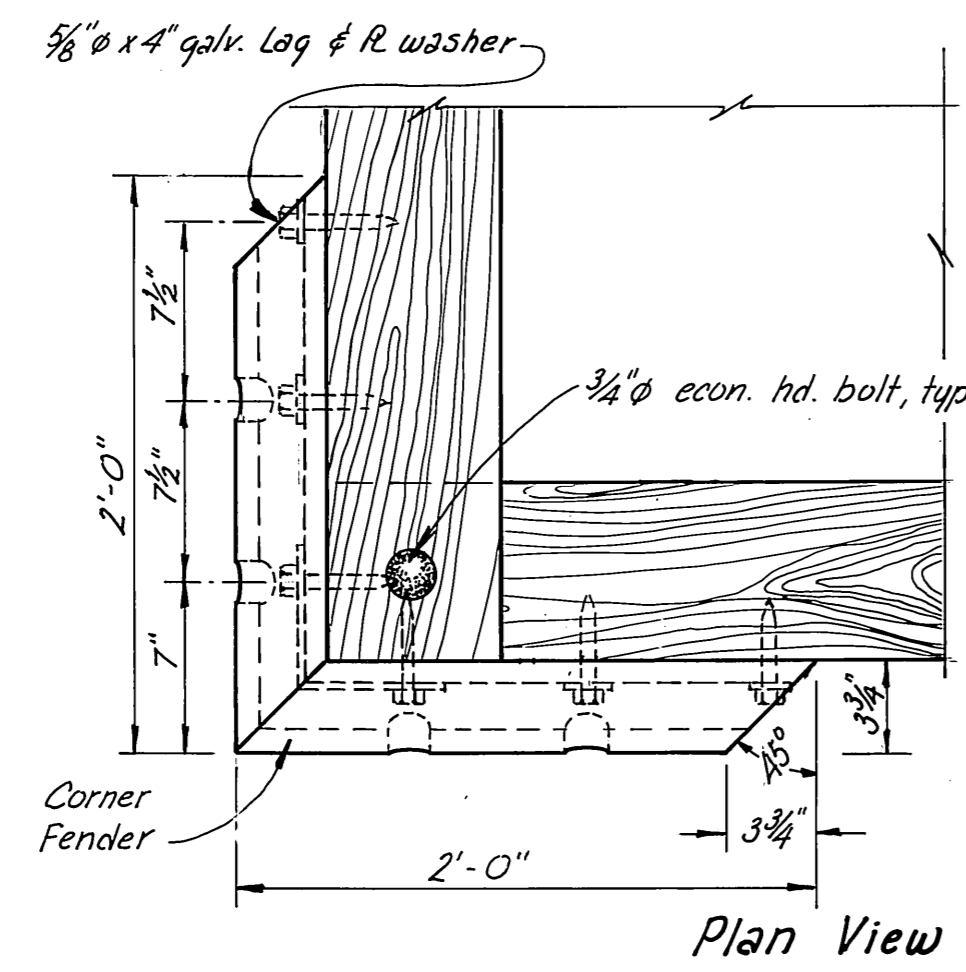
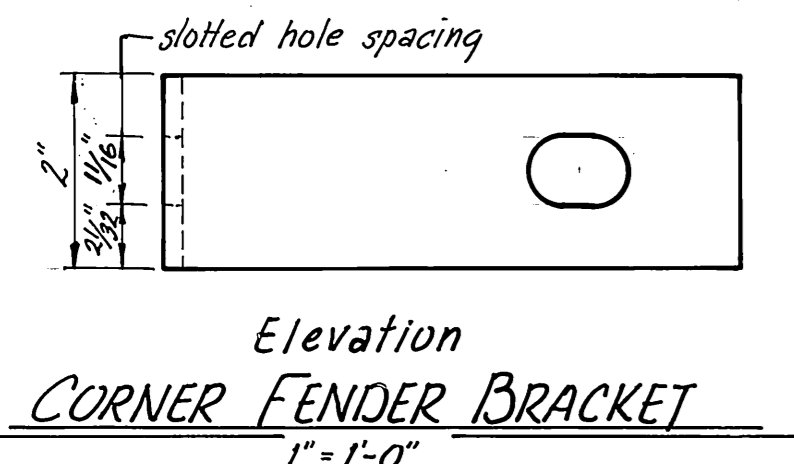
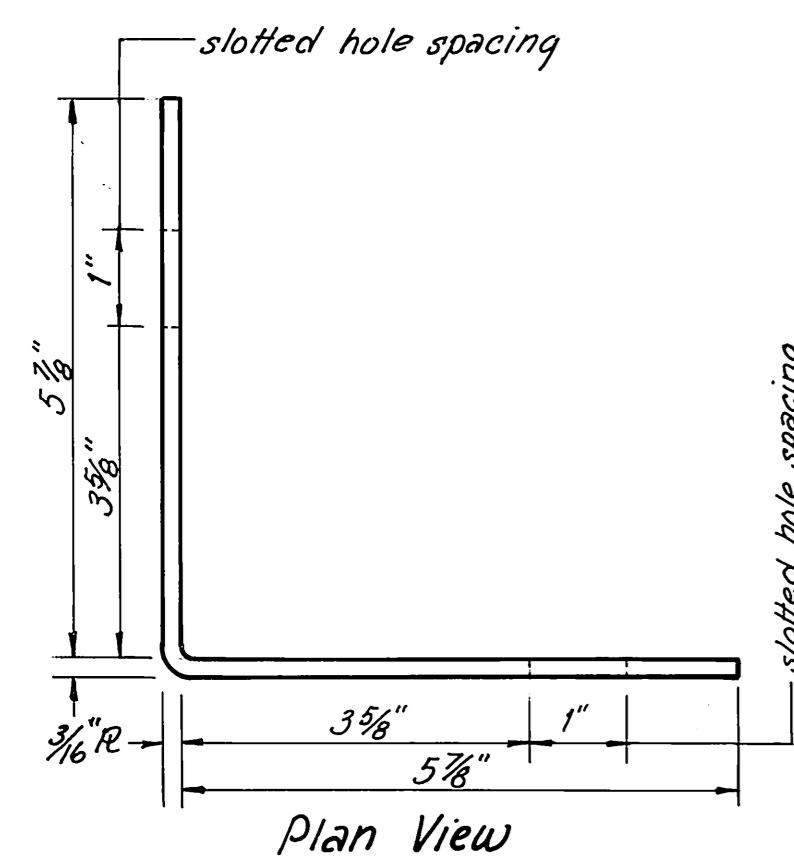
STUD DETAIL
3" = 1'-0"

Unit	Dimension	Value	Notes
L-1A (L-1B opp. hnd.)	6"	3'-0"	3'-0"
L-2A (L-2B opp. hnd.)	6"	2'-11 1/4"	6"
L-5A (L-5B opp. hnd.)	6"	2'-6 1/4"	6"
L-5BI opp. hnd.	6"	3'-0 1/4"	6"
L-6A (L-6B opp. hnd.)	6"	2'-9 3/4"	6"

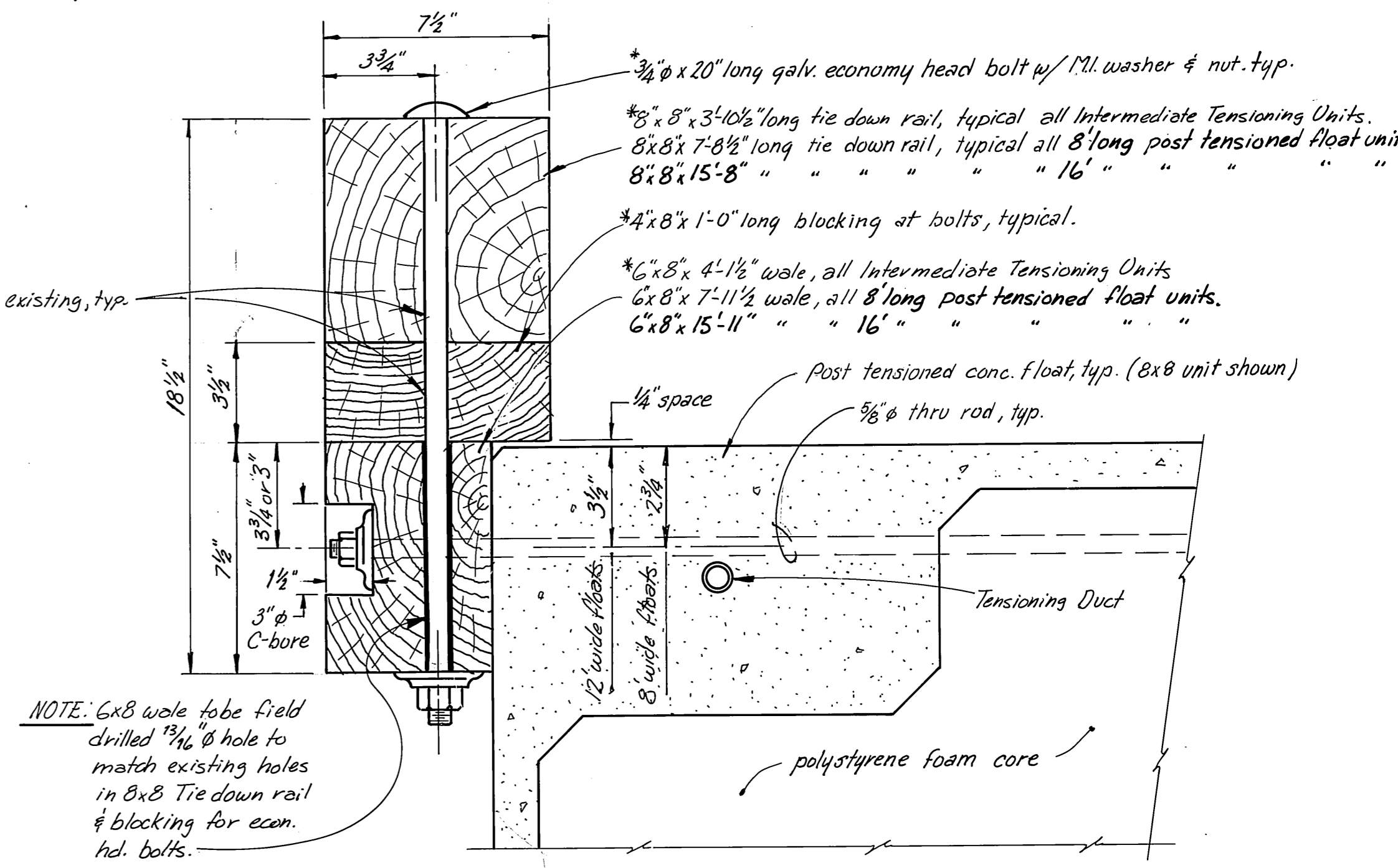
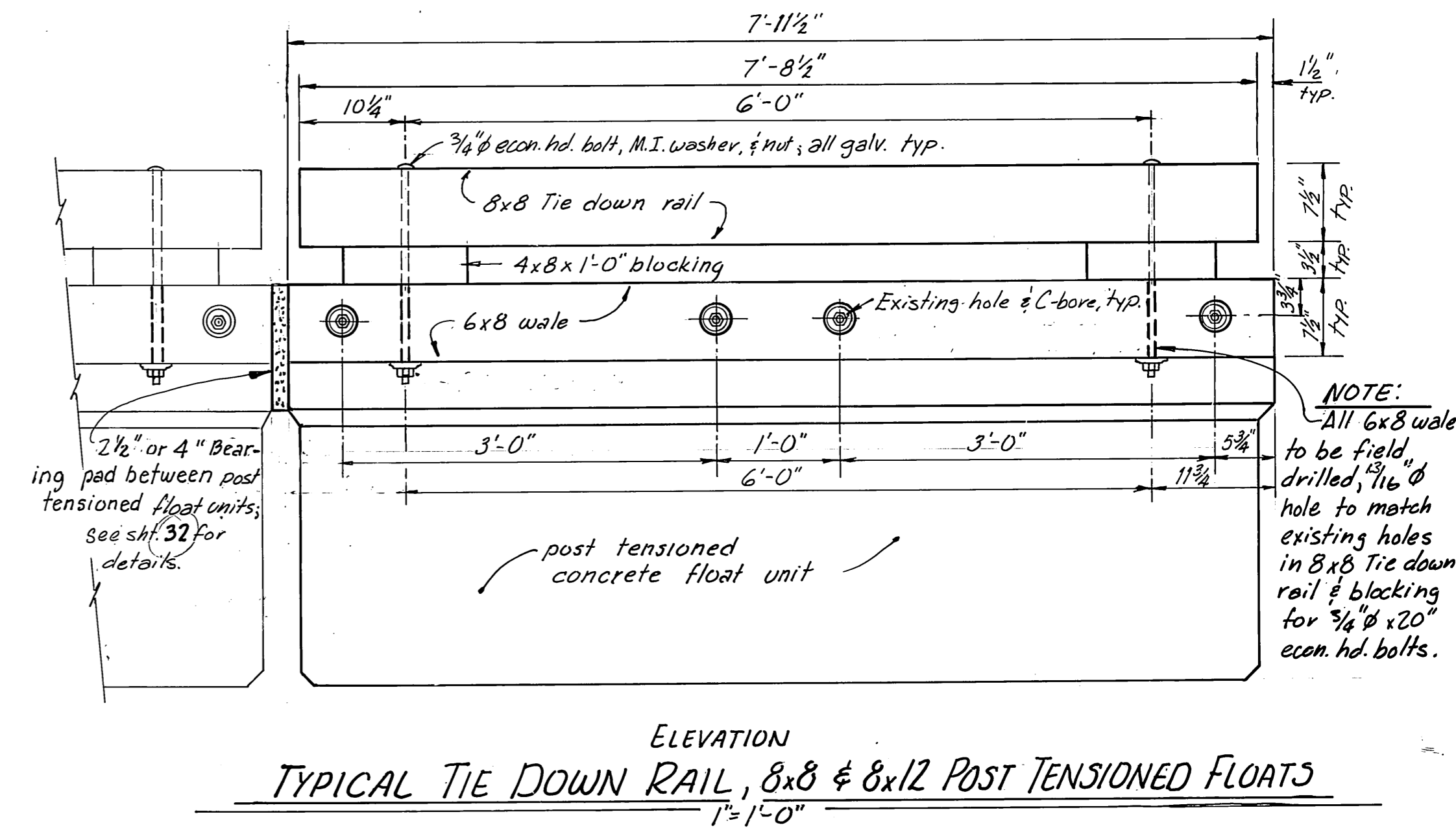
LEDGER DETAILS
N.T.S.



DO NOT SCALE THIS DRAWING - USE DIMENSIONS			
STATE OF ALASKA DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES			
Auke Bay		Alaska	
BEARING PADS AND LEDGERS			
DESIGNED	JDB	CHECKED	T.S.
PROJECT NUMBER	67664, 69106, 69016	DRAWN	DATE 4-86
SHEET 32		OF 49	



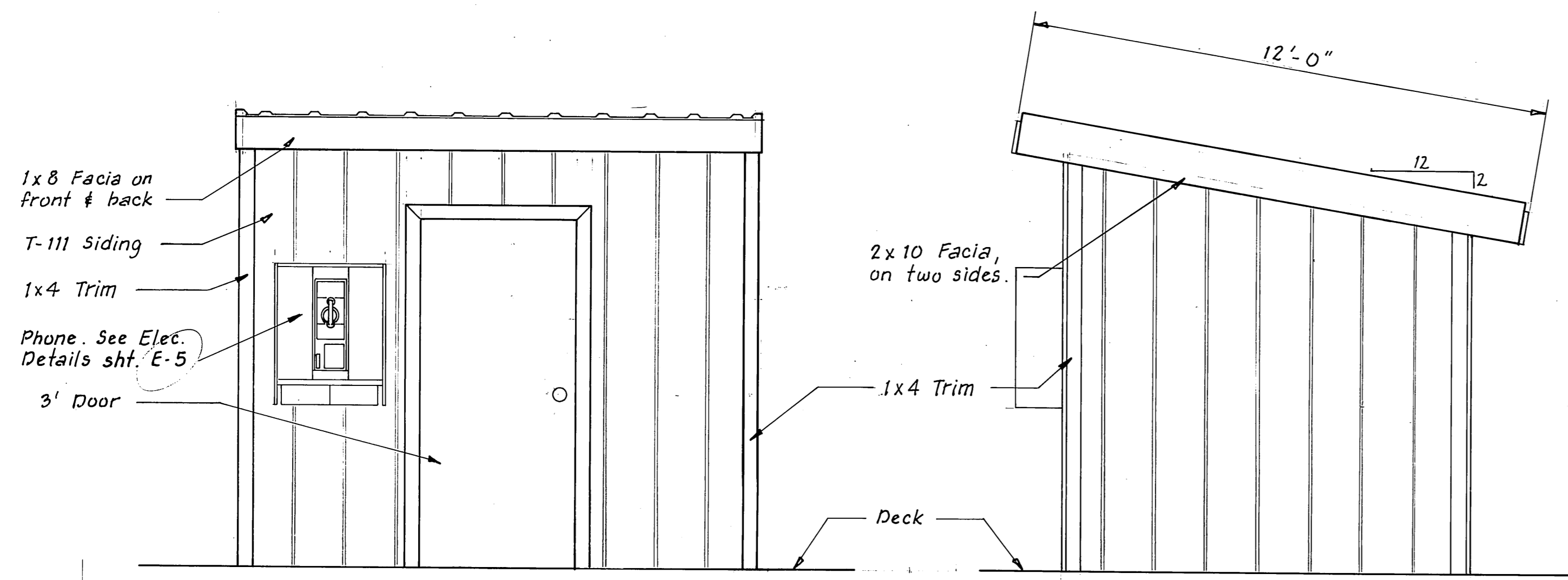
NOTE:
Install state furnished D-fender all around Coast Guard float and a 96' length on main float centered on the Sewage pumpout float.



- NOTES:
- All S4S timber except as noted.
 - Contractor to provide this contract, all timber & materials for intermediate tensioning units, see sheets 20 & 21.

M.H.
10/3/87

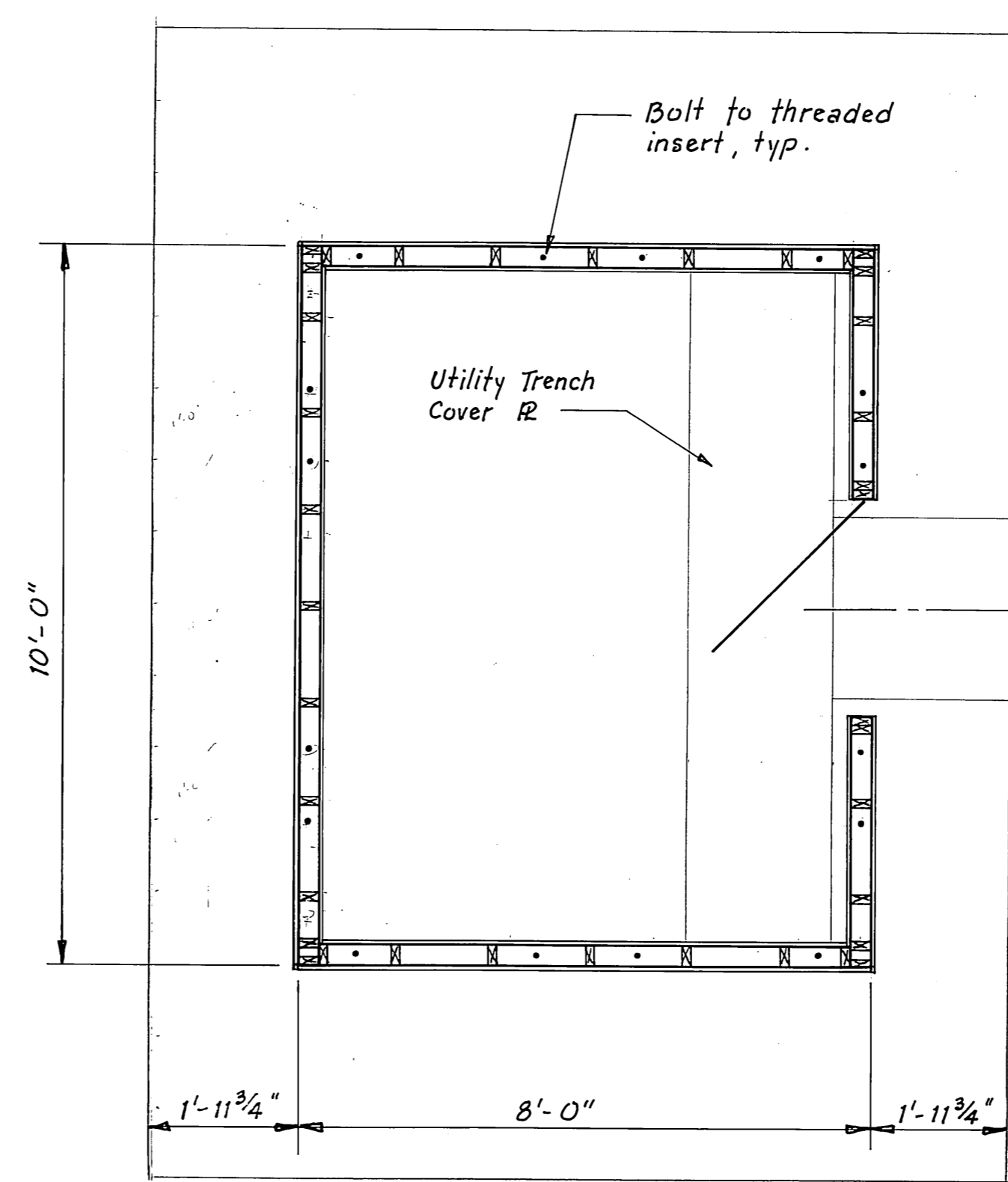
STAMP		DO NOT SCALE THIS DRAWING - USE DIMENSIONS	
		STATE OF ALASKA DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES DESIGN AND CONSTRUCTION	
		Alaska Auke Bay 8x8 TIE DOWN RAIL, D-FENDER, CORNER FENDER & MISC. DETAILS	
SCALE: As Shown	DESIGNED: JDB	SURVEYED: UN/DN	APPROVED:
CHECKED: J	DATE: 11-85		
PROJECT NUMBER: 67664, 67016, 67106	SHEET 33 OF 49		



FRONT

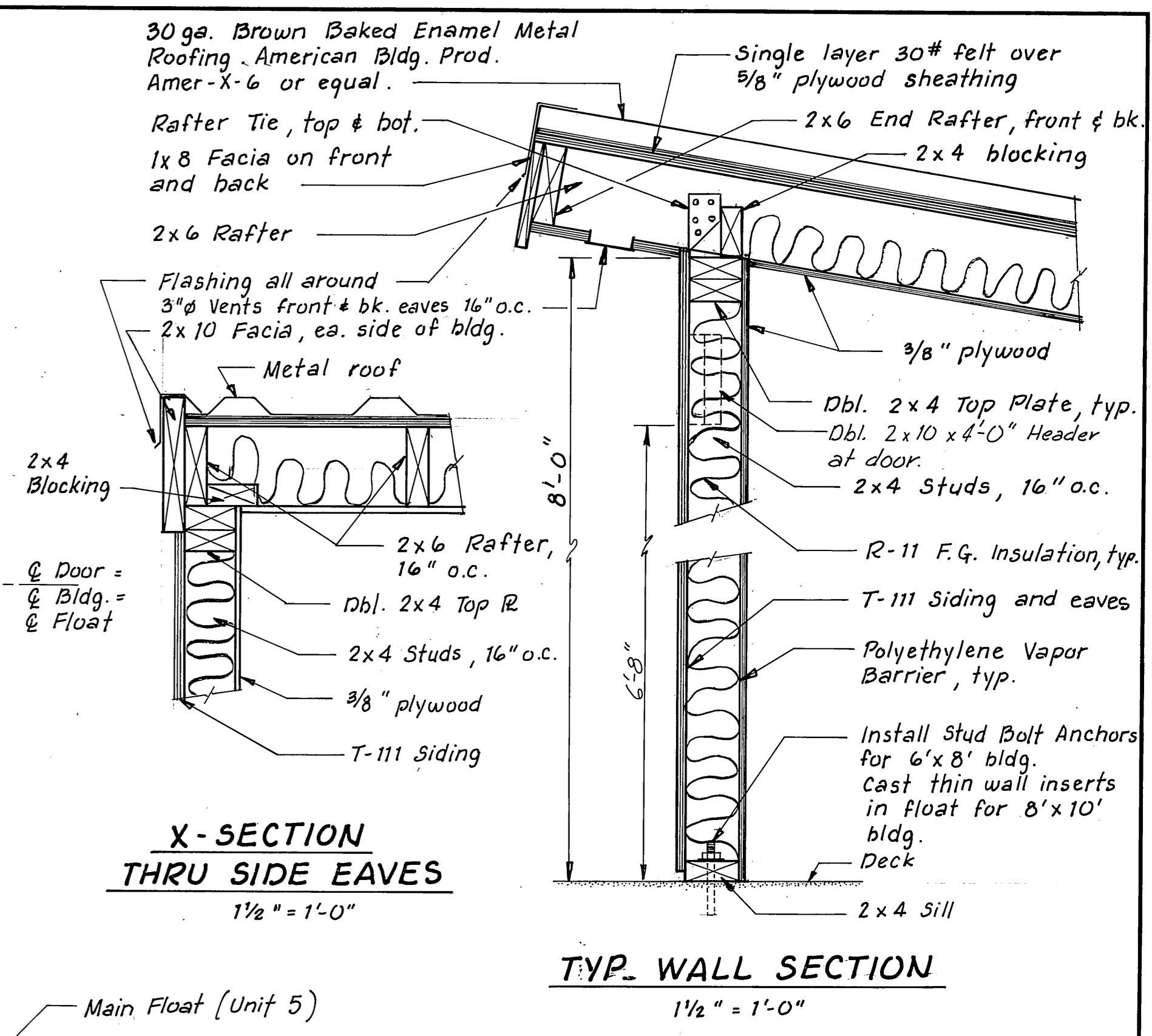
SIDE

DELETED UTILITIES BUILDING
1/2" = 1'-0"



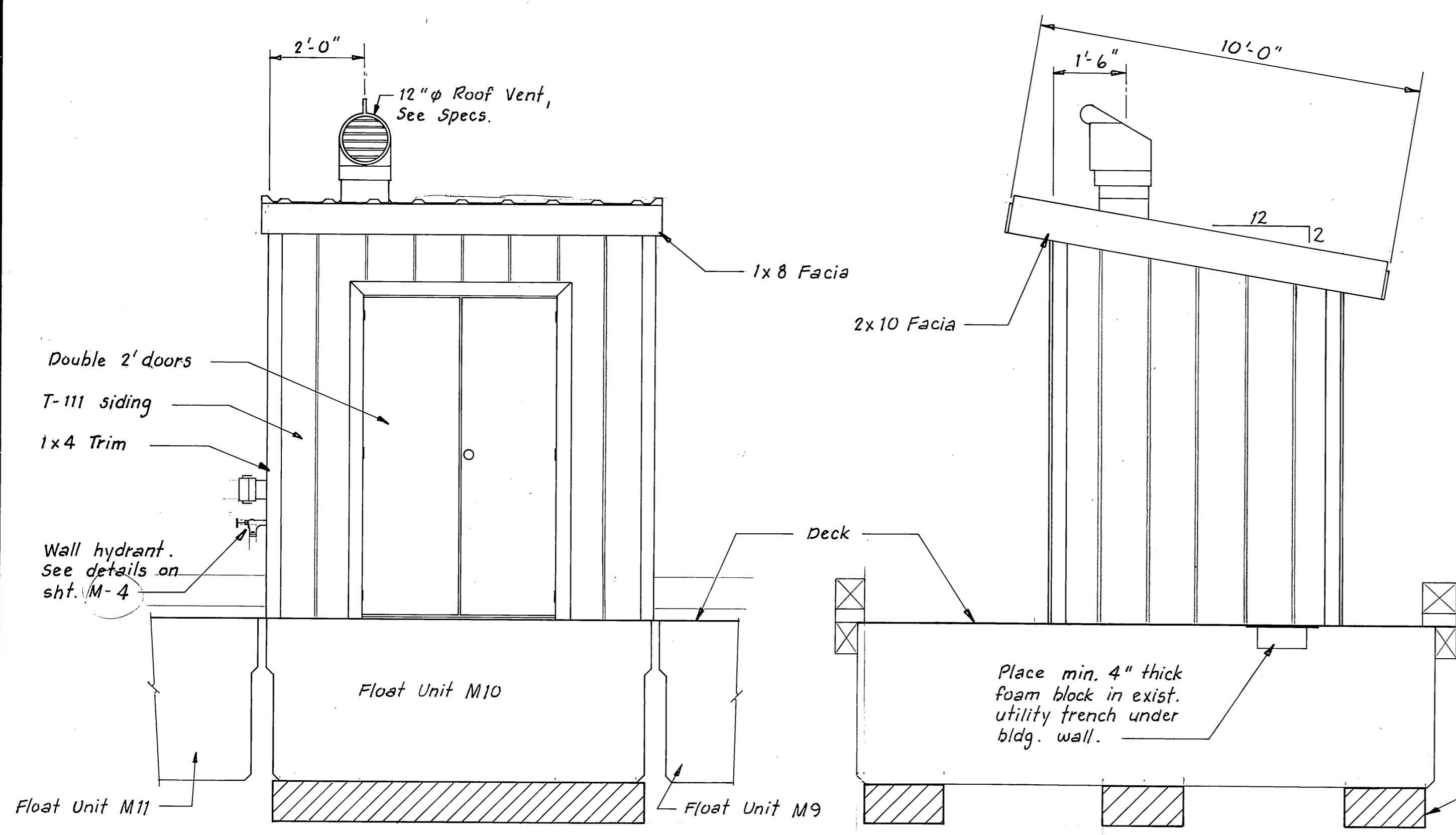
DELETED PLAN VIEW UTILITIES BUILDING
1/2" = 1'-0"

NOTE: ROOF FLASHING NOT SHOWN.



X-SECTION THRU SIDE EAVES
1/2" = 1'-0"

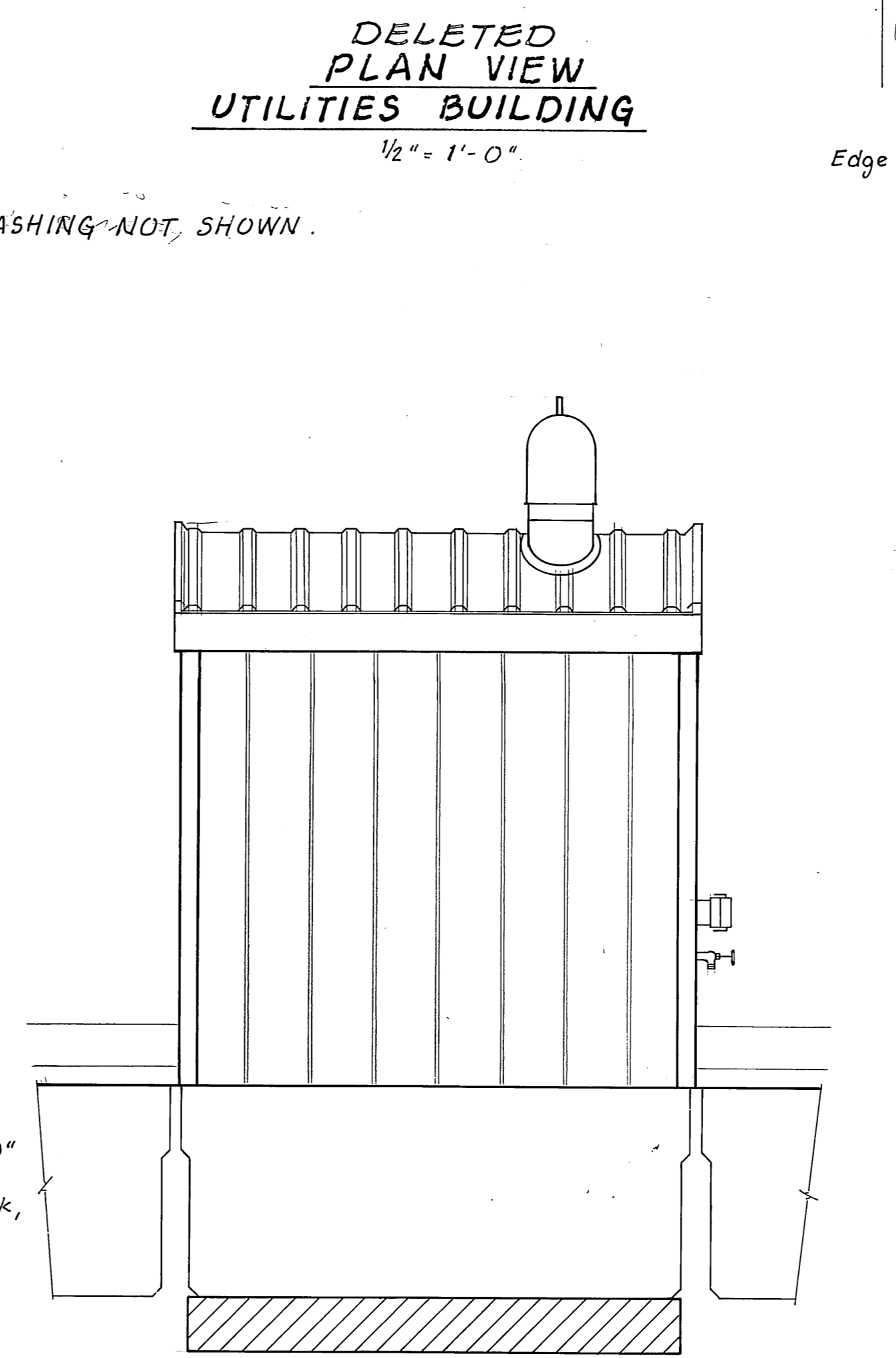
TYP. WALL SECTION
1/2" = 1'-0"



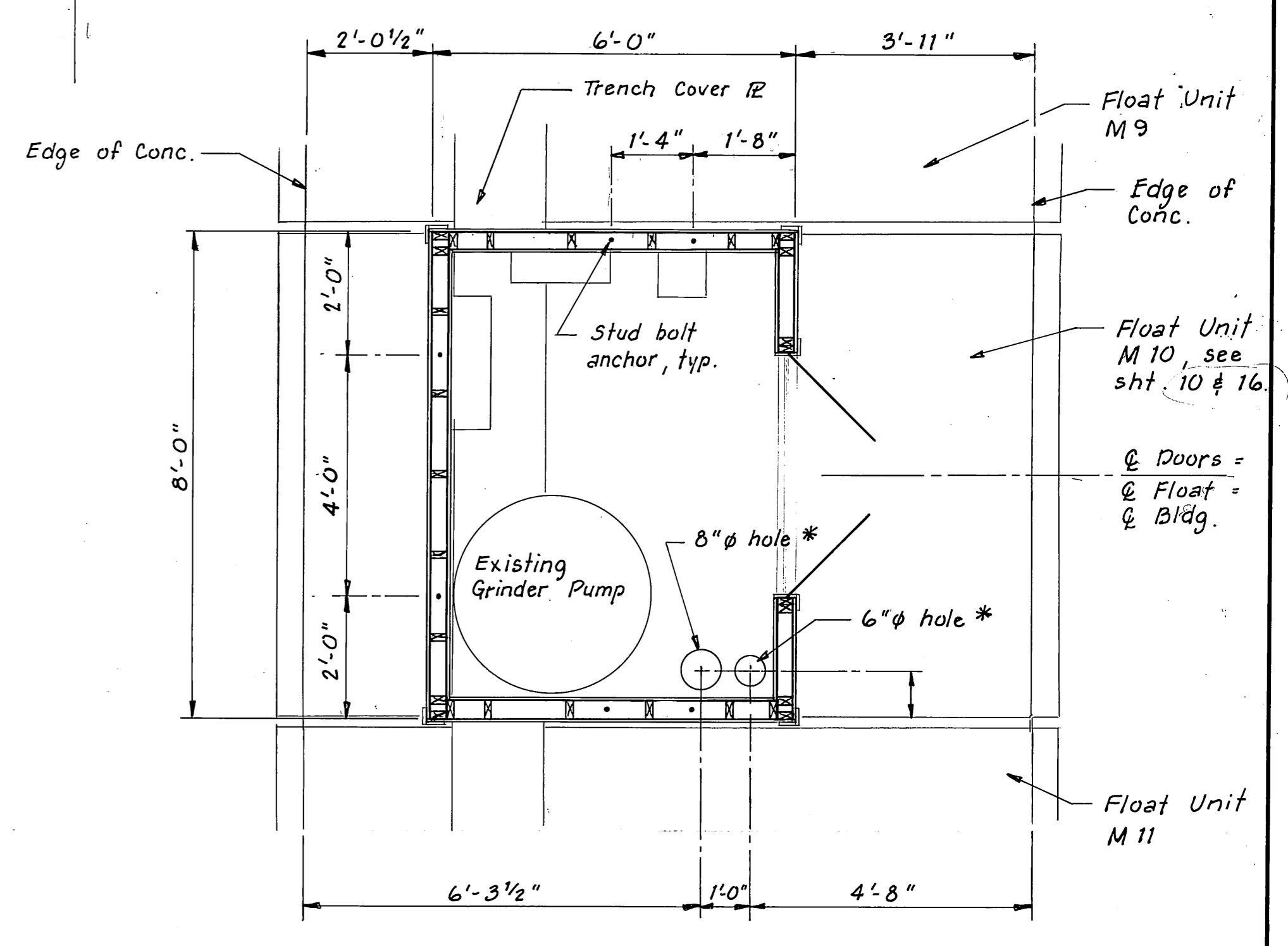
FRONT

SIDE

USCG SEWAGE PUMP BLDG.
1/2" = 1'-0"



BACK UTILITIES BUILDING DELETED
1/2" = 1'-0"

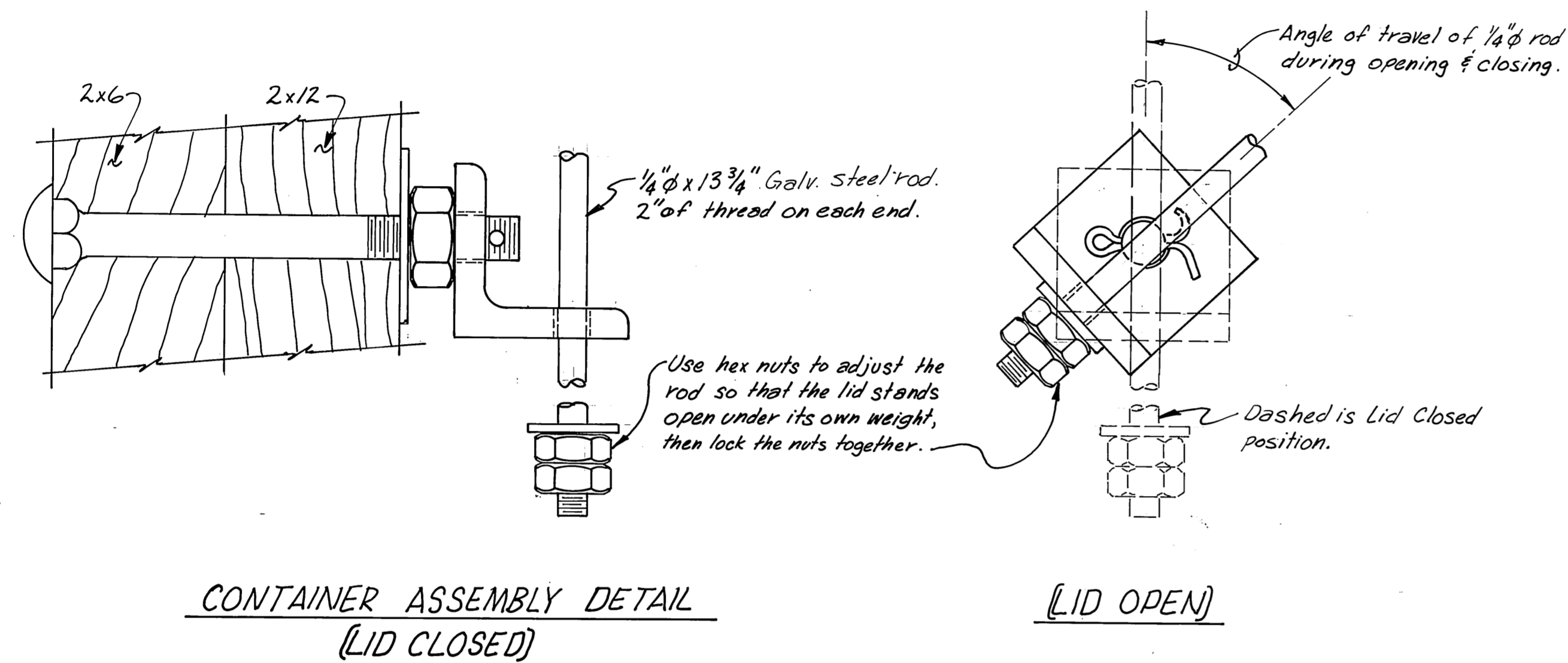
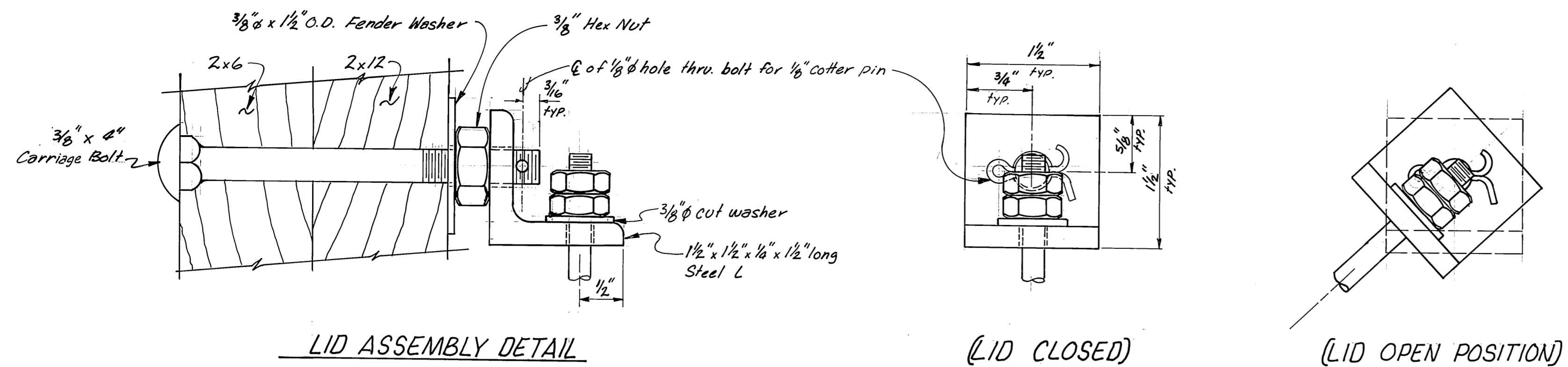


PLAN VIEW - USCG SEWAGE PUMP BLDG.
1/2" = 1'-0"

* Cut 11" and 9" holes through float. Insert 8" and 6" plastic pipe in holes and grout in place.

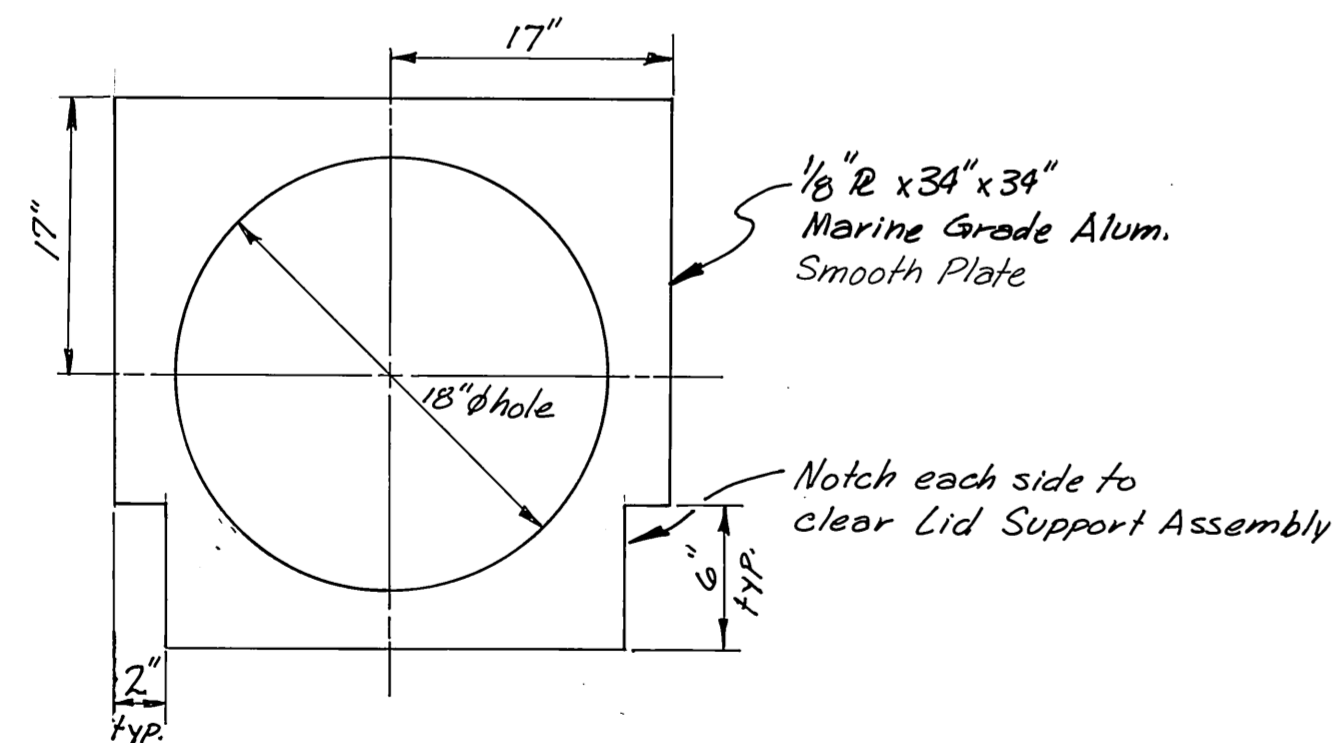
	DO NOT SCALE THIS DRAWING - USE DIMENSIONS			
	STATE OF ALASKA DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES			
	Auke Bay		Alaska	
	USCG SEWAGE PUMP BLDG. & UTILITIES BLDG.			
DESIGNED JDB	CHECKED [Signature]	DRAWN TS	DATE 5-86	
PROJECT NUMBER 67664, 69016, 69106		SHEET 34 OF 49		

M.H.
10/3/87

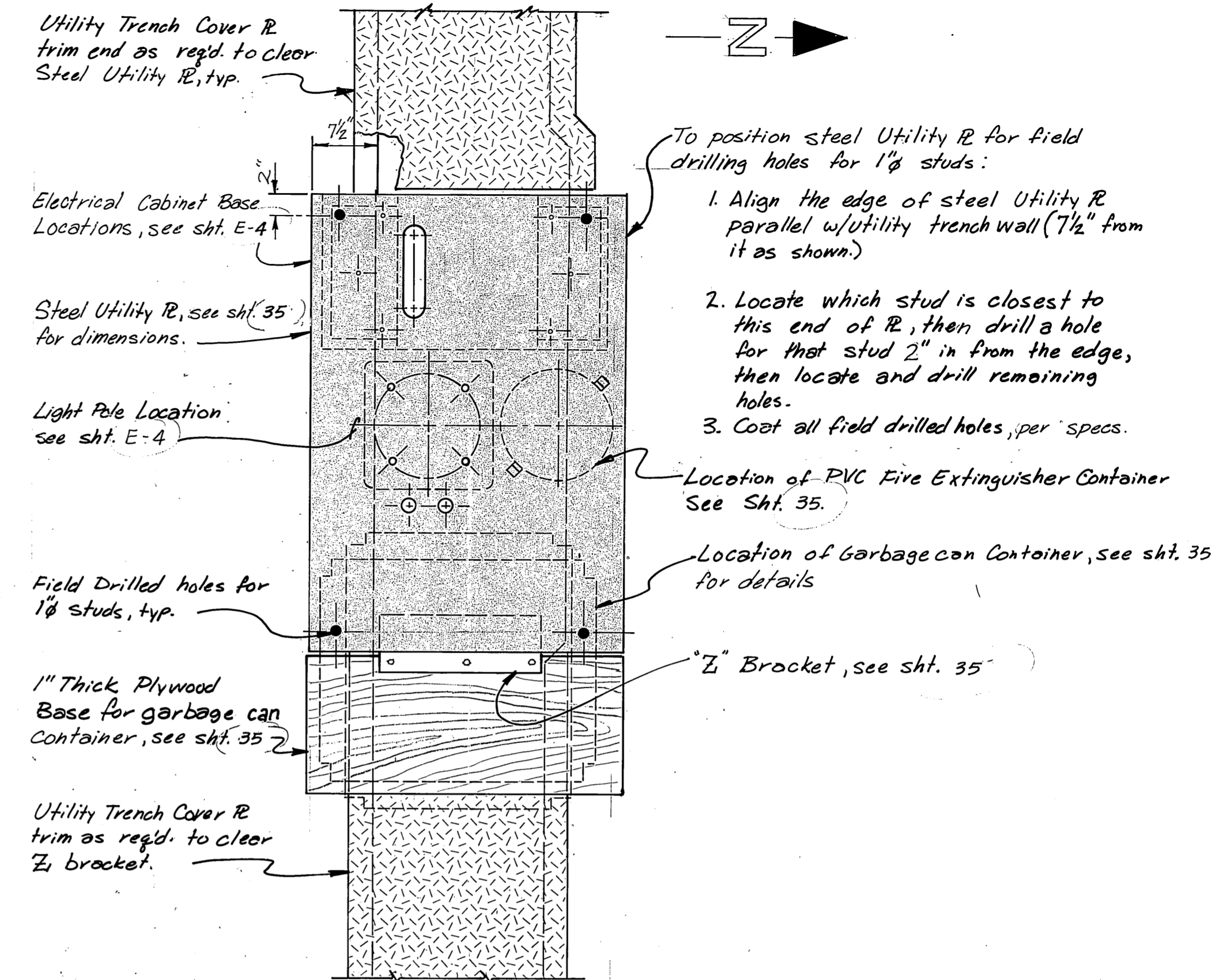


GARBAGE CONTAINER LID SUPPORT ASSEMBLY DETAILS

12"=1'-0" NOTE: Hot dip galvanized all steel parts after fabrication. Contractor is to assemble all parts after galvanizing to verify ease of assembly.



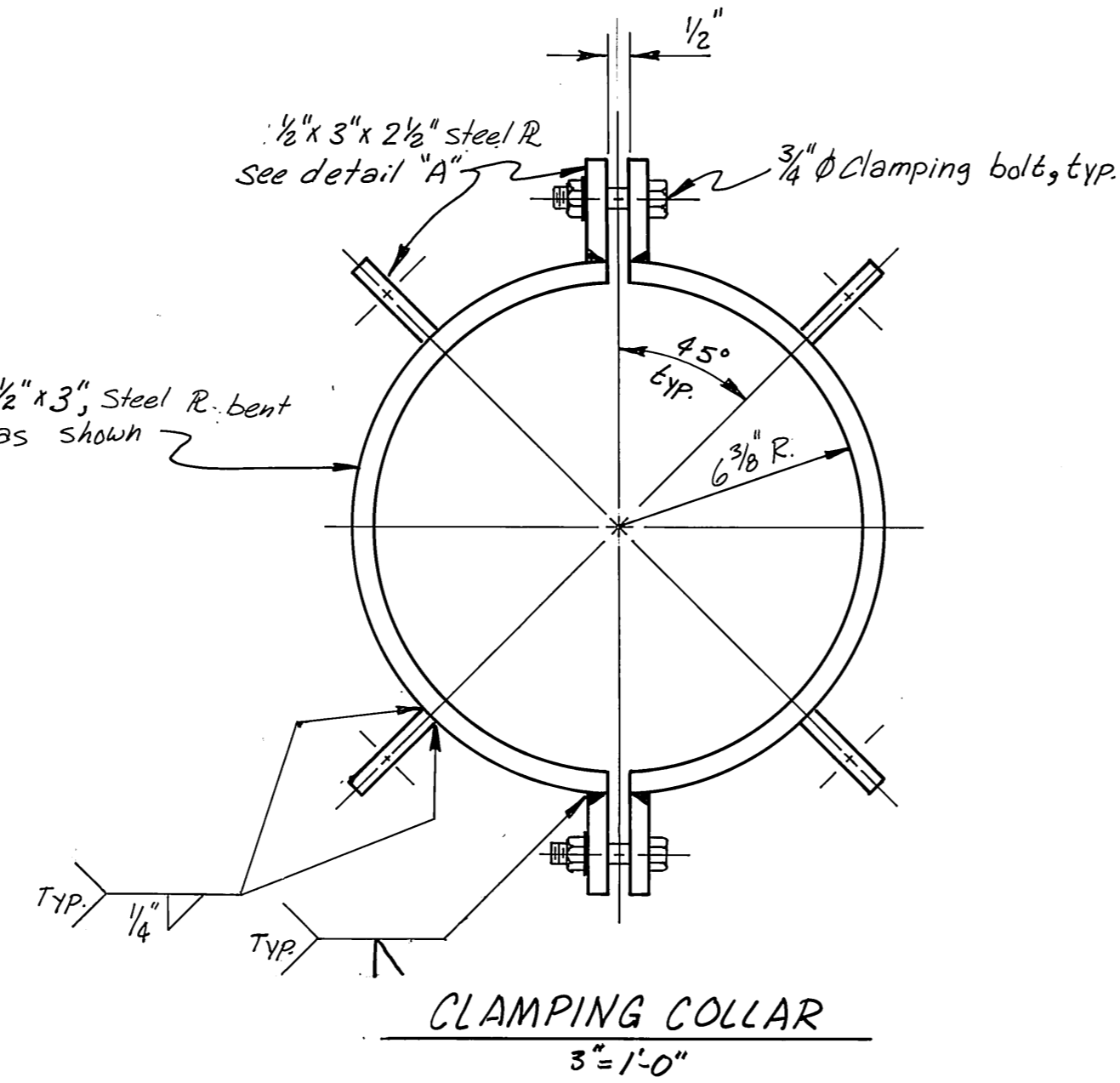
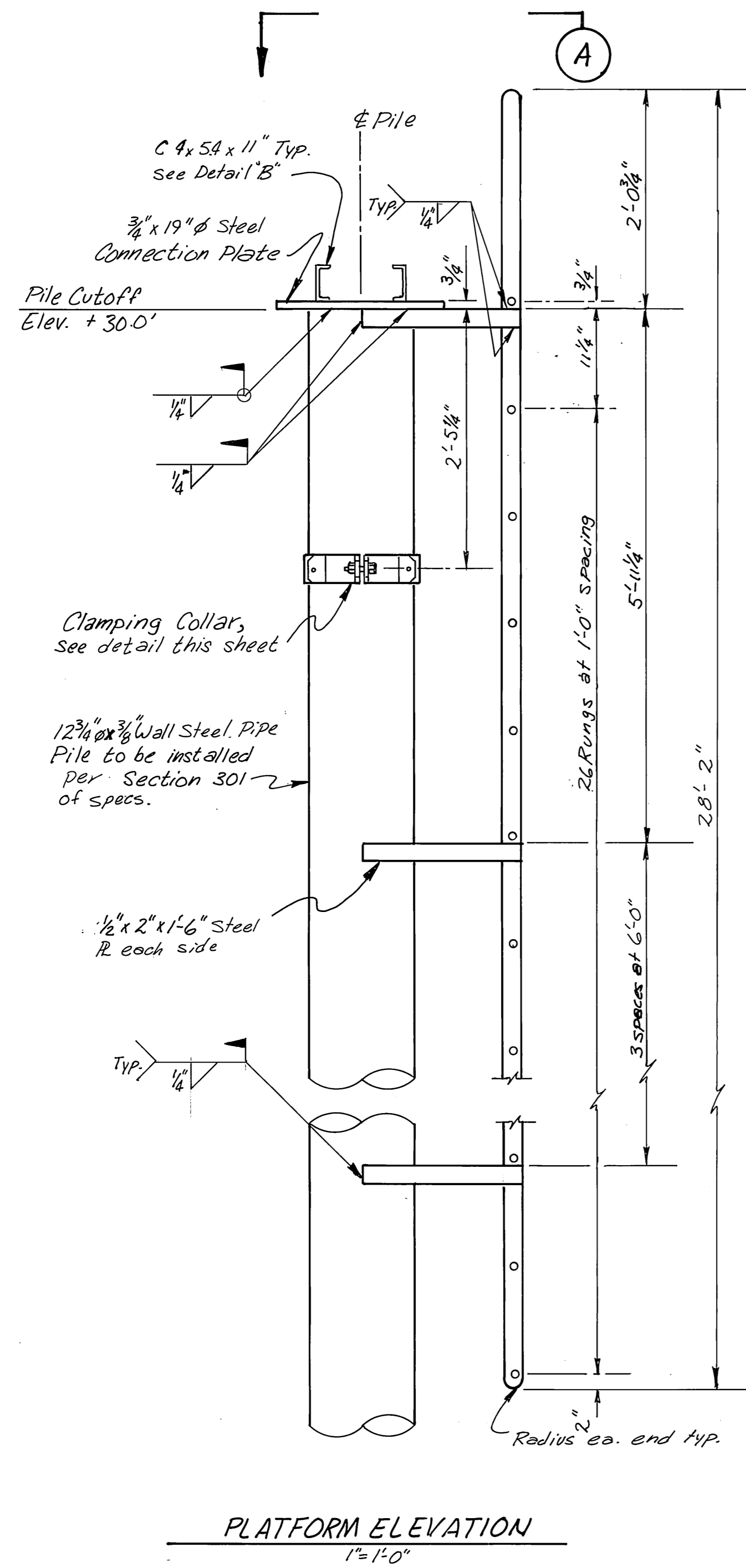
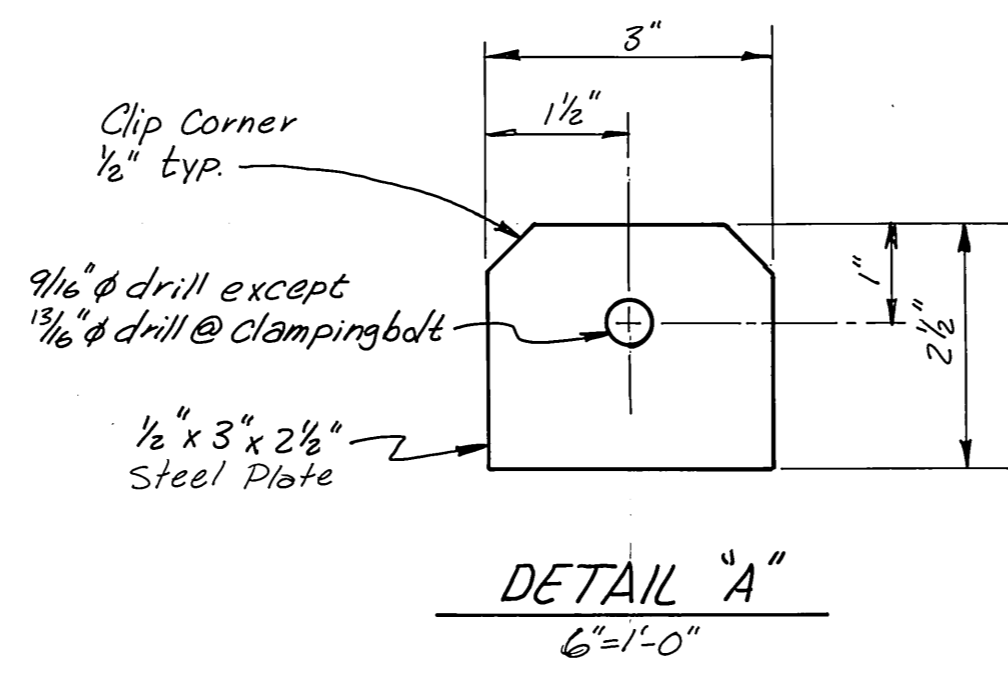
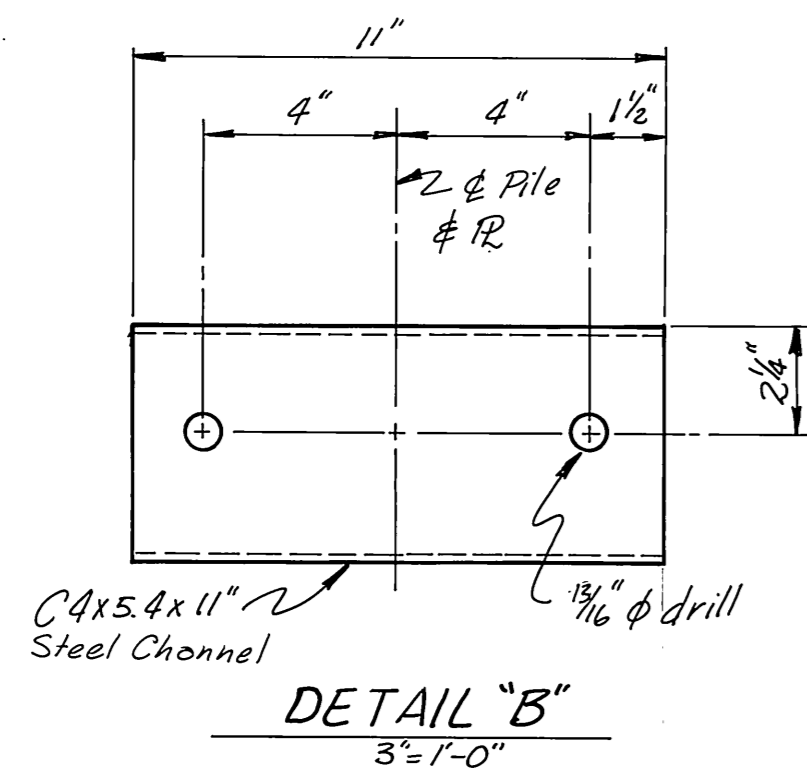
Garbage Can Cover is to rest on top of Garbage Can.



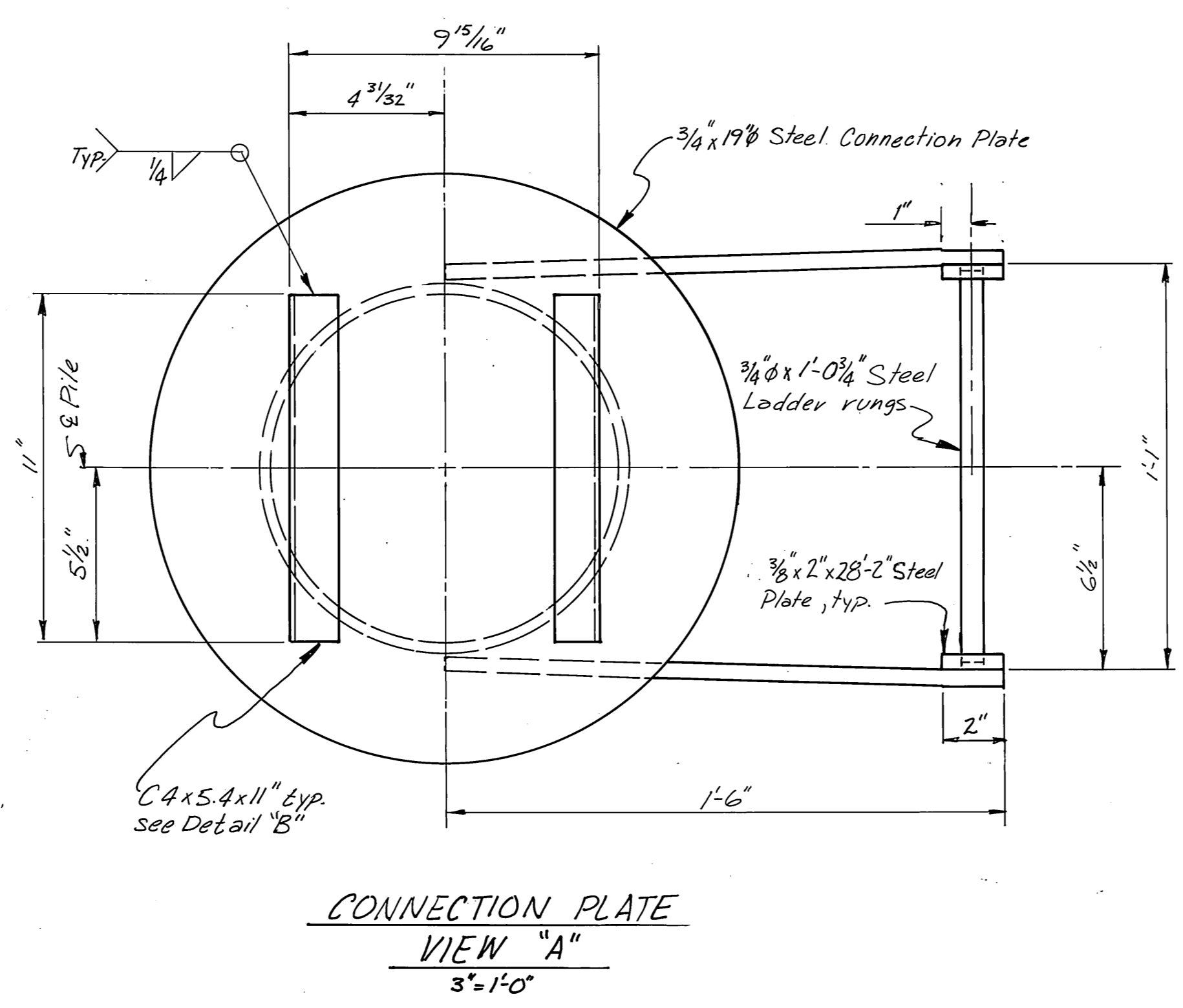
LAYOUT of PLATE for UNITS 1,2,2A,4#4A

M.H.
10/3/87

STAMP		DO NOT SCALE THIS DRAWING - USE DIMENSIONS	
STATE OF ALASKA			
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES			
AUKE BAY		ALASKA	
UTILITY PLATE LAYOUT#GARBAGE CONTAINER			
DESIGNED <u>DJM</u>	CHECKED <u>JDB</u>	DRAWN <u>DJM</u>	DATE <u>1-86</u>
PROJECT NUMBER <u>67664, 67016, 67106</u>		SHEET <u>36</u> OF <u>49</u>	

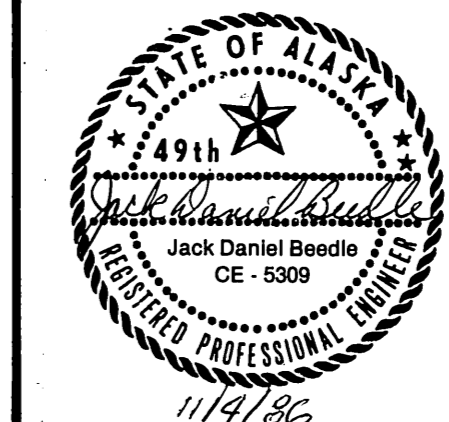


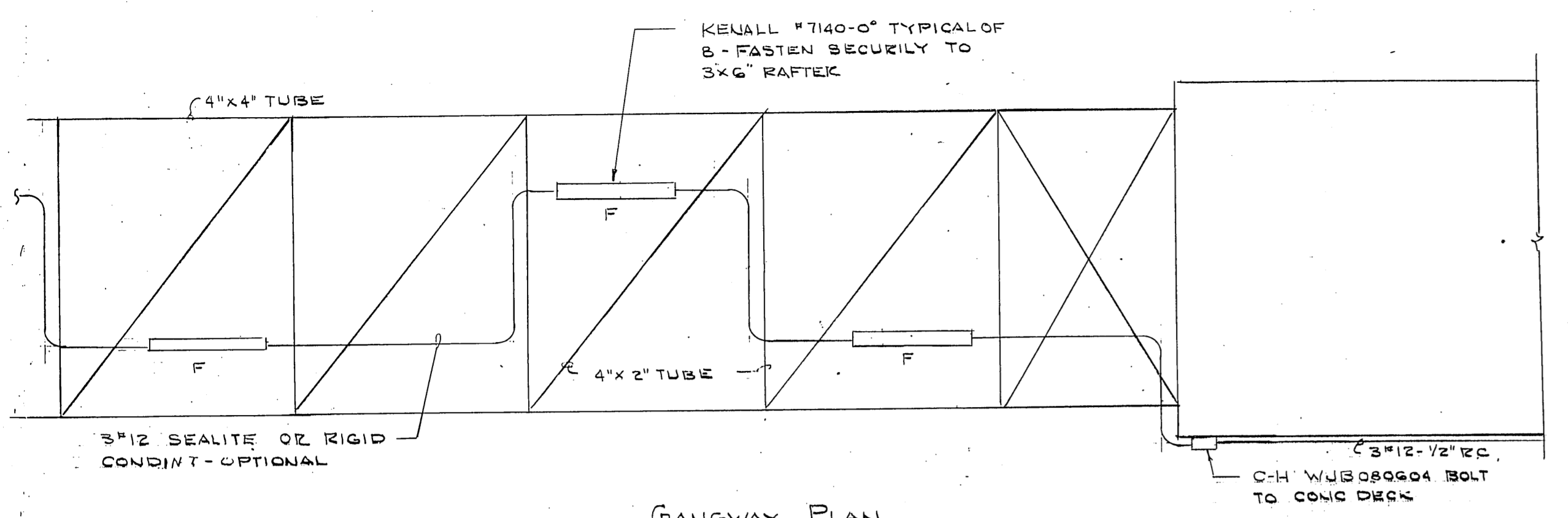
- NOTES:
1. Navigation Aid Platform shall be installed on pile, location shown on *sh. 2* at harbor entrance channel.
 2. Access Ladder shall be installed on the side opposite of the entrance channel.
 3. All steel to be hot dip galvanized after fabrication.



M.H.
10/3/87

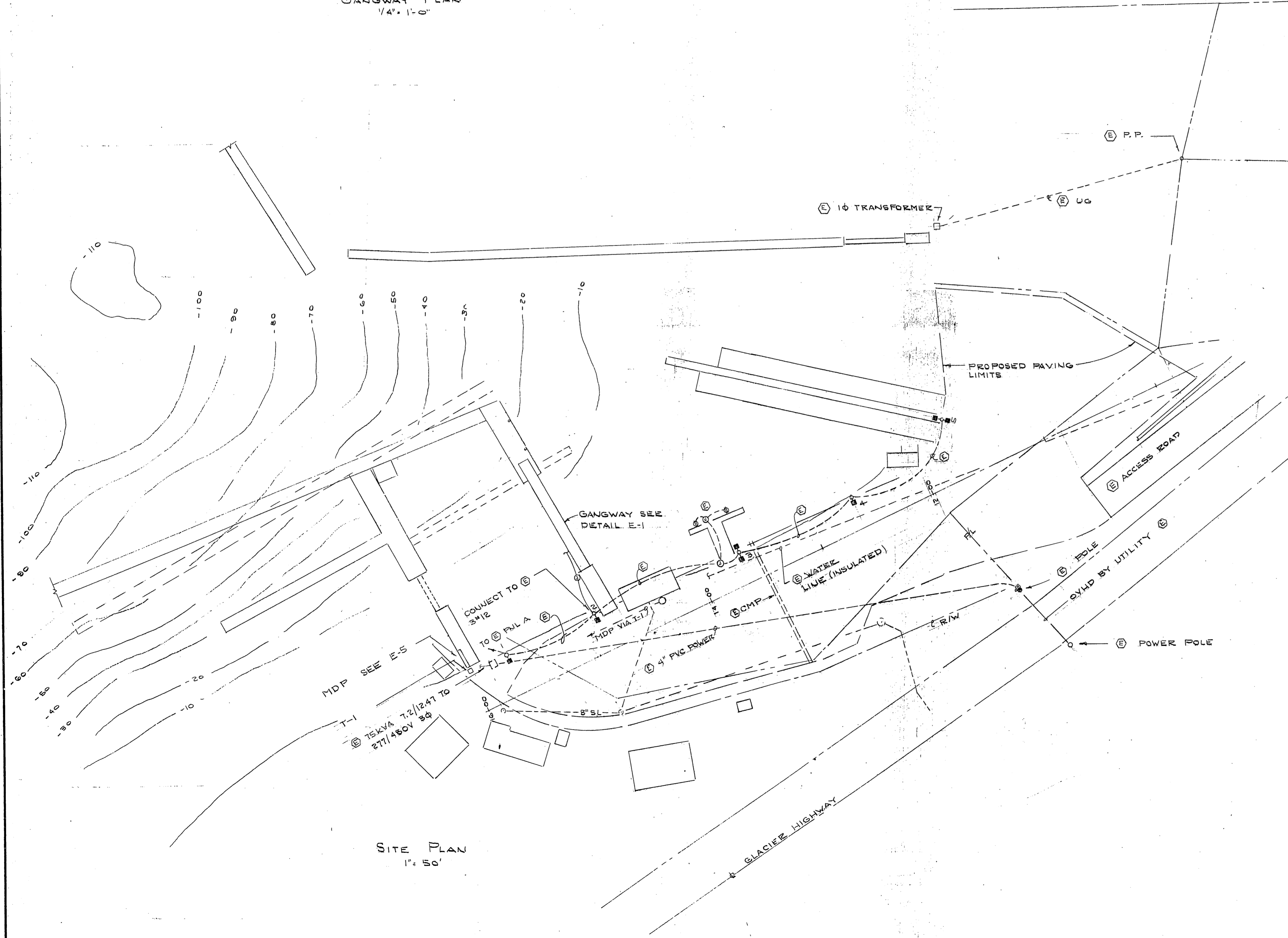
STAMP		DO NOT SCALE THIS DRAWING - USE DIMENSIONS	
STATE OF ALASKA DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES			
Auke Bay		Alaska	
NAVIGATION AID PLATFORM			
DESIGNED JDB	CHECKED [Signature]	DRAWN DJM	DATE 4-86
PROJECT NUMBER 67664, 67016, 669106	SHEET 37		OF 49



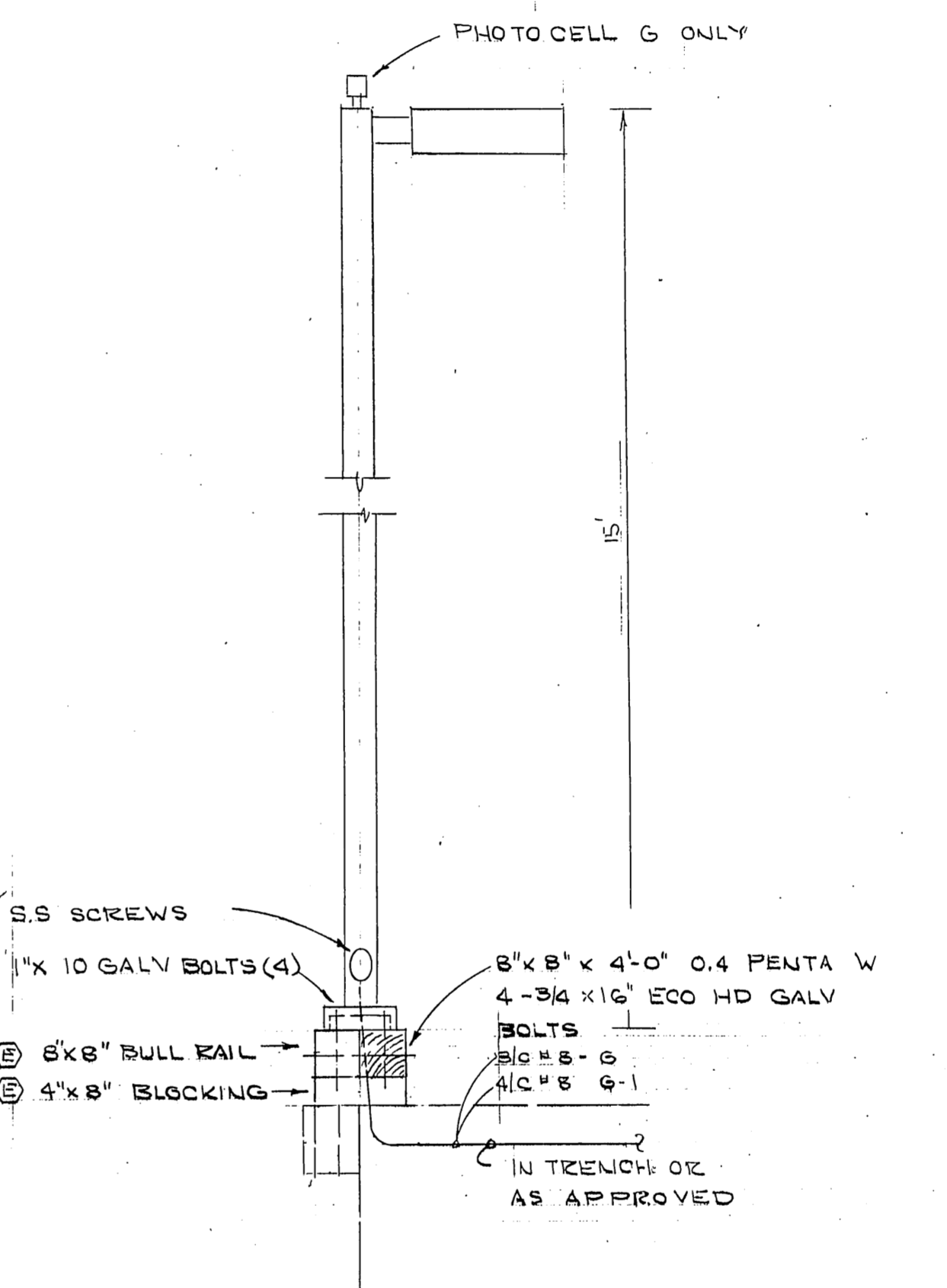


GANGWAY PLAN
1/4" = 1'-0"

FIXTURE SCHEDULE			
TYPE	MFG	W	REMARKS
A	NOT USED		
B	McPHILBEN ITAGI - DB-2T-2D/20SNL603 MOD	2-100 HPS	E-4
C	NOT USED		
D	"		
E	KENALL 4400 - CW-3800A - 120	2-FC6T9	SEE DETAIL E-5
F	" 7140 - 0 - 277	1-40K5	" " E-1
G	McPHILBEN ITAGI - DB-120-1D/20SNL503	100 HPS	" " E-1
G-1	" ITAGI - DB-277-1D/20SNL503	100 HPS	" " E-1



SITE PLAN
1" = 50'

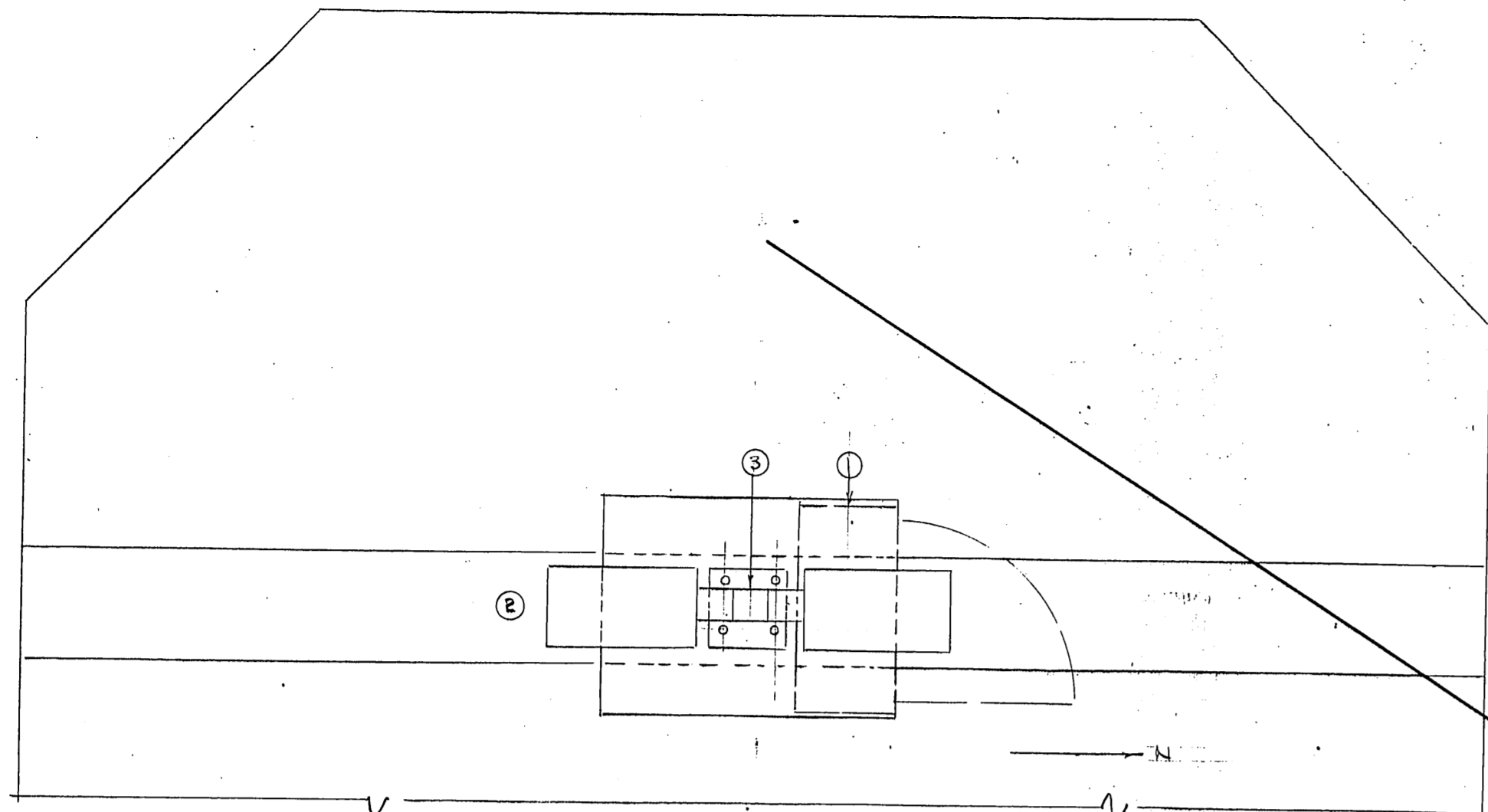


FIXTURE TYPE G & G-1
1/2" = 1'-0"

REVISED 8/31/86

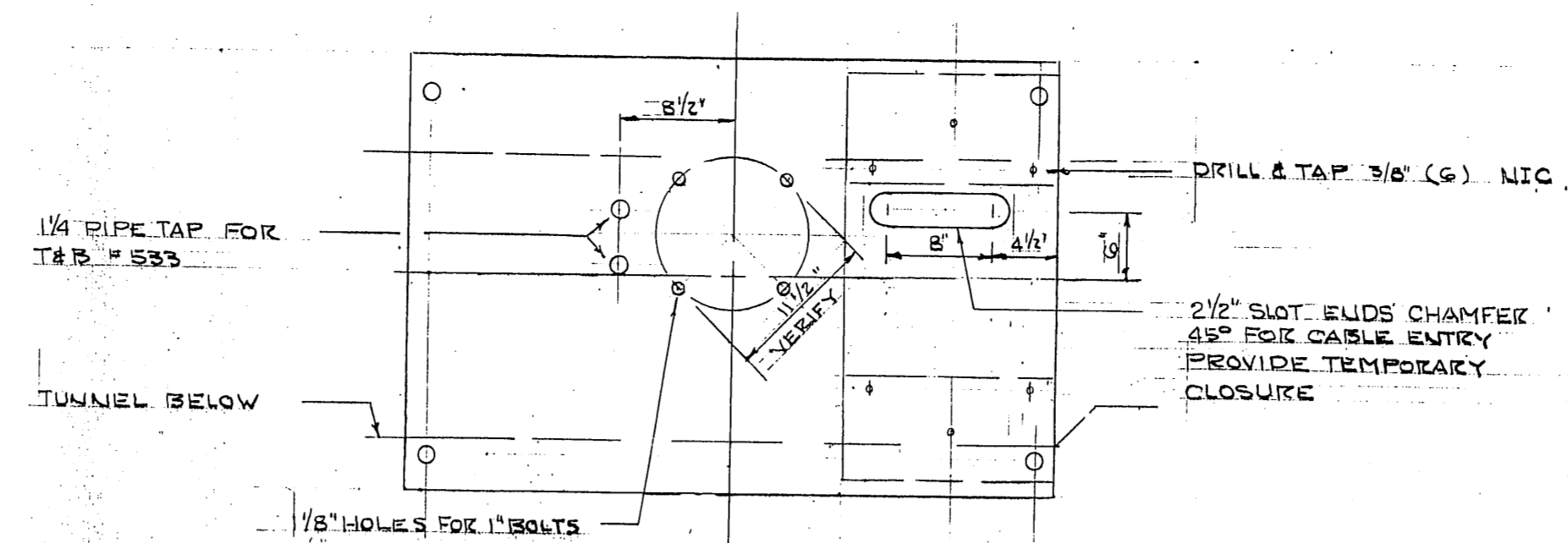
STAMP 	DO NOT SCALE THIS DRAWING - USE DIMENSIONS	
	STATE OF ALASKA DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES DESIGN AND CONSTRUCTION Auke Bay Alaska ELECTRICAL PLAN	
SCALE NOTED DESIGNED CHECKED	SURVEYED DRAWN LPL DATE M34 82 BY 2-22-86	APPROVED _____
PROJECT NUMBER 67664, 67016, 67106		SHEET 38 OF 49

E-1

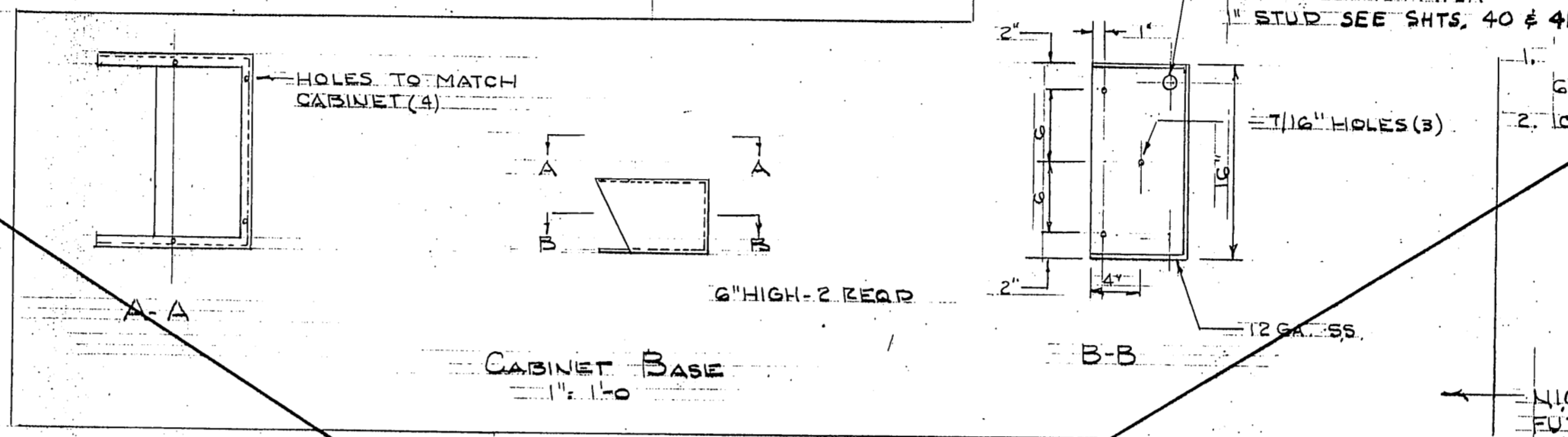


PLAN
1/2" = 1'-0"

"D" MAIN FLOAT AS SHOWN
B&C CABINET REVERSED
FOR WEST EXPOSURE
SEE DETAILS, SHTS. 35 & 36

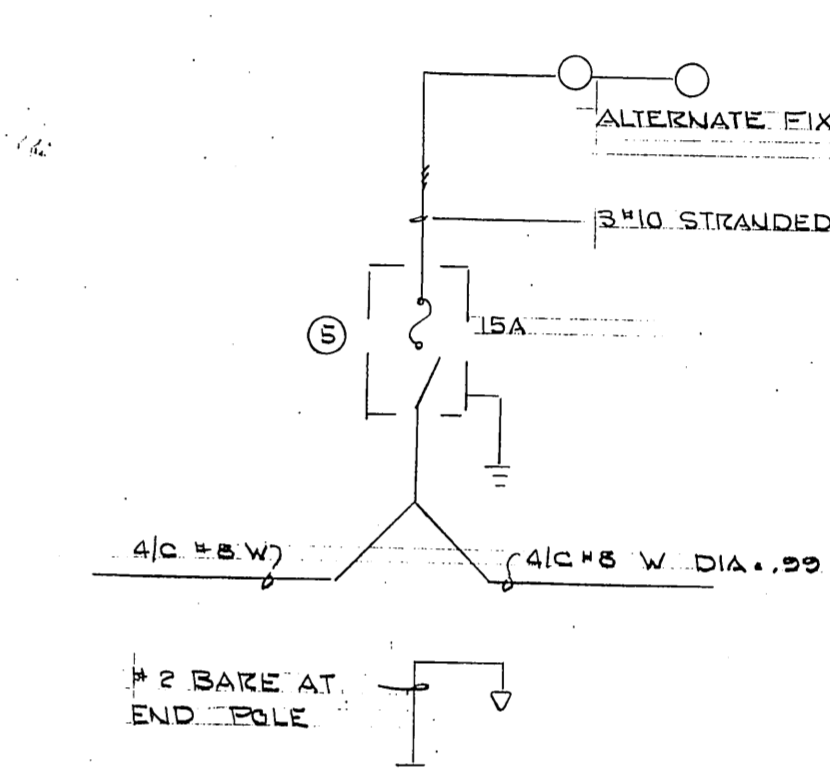


BASE PLATE REFERENCE, SEE DETAILS, SHTS. 35 & 36

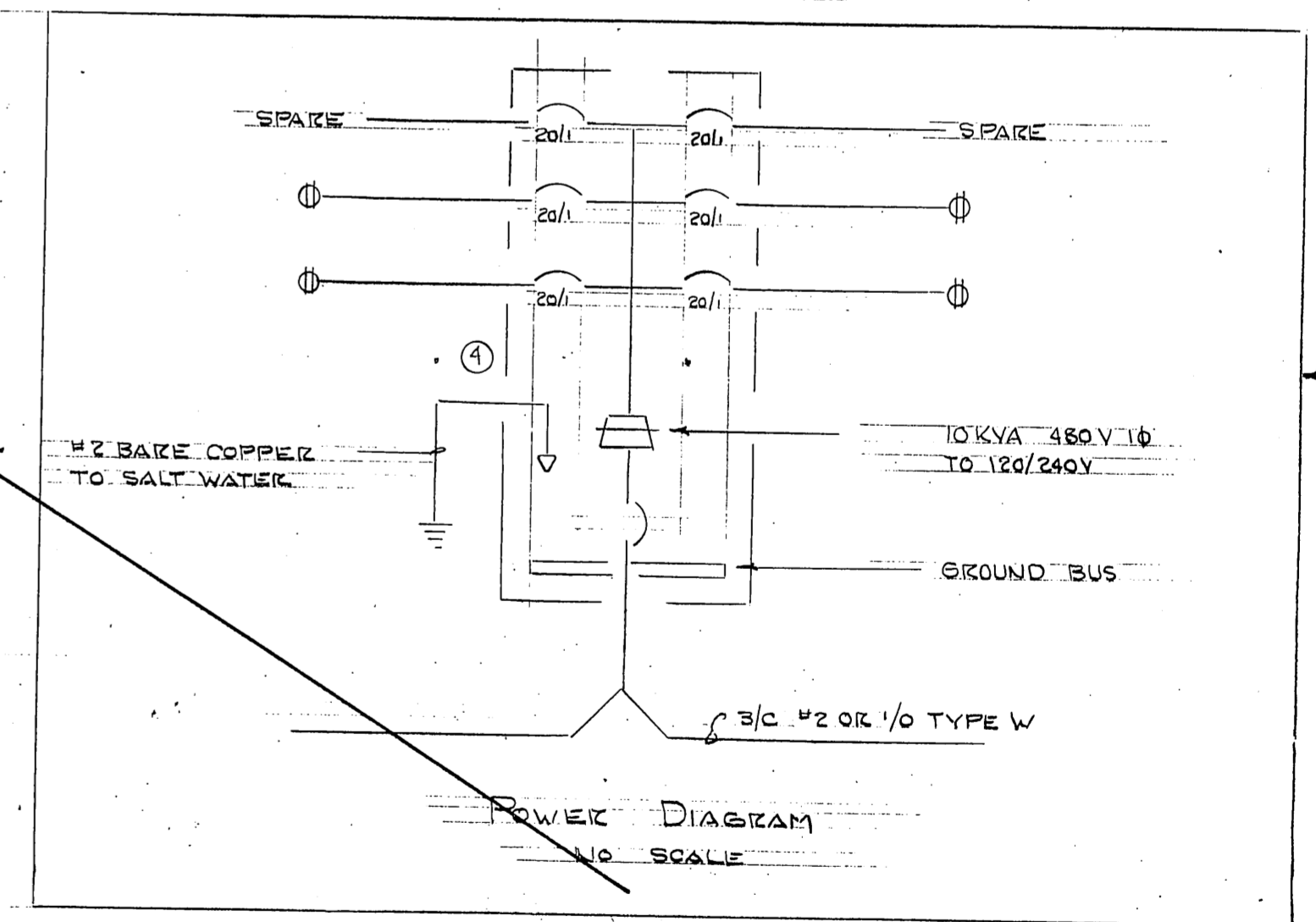


CABINET BASE
1/2" = 1'-0"

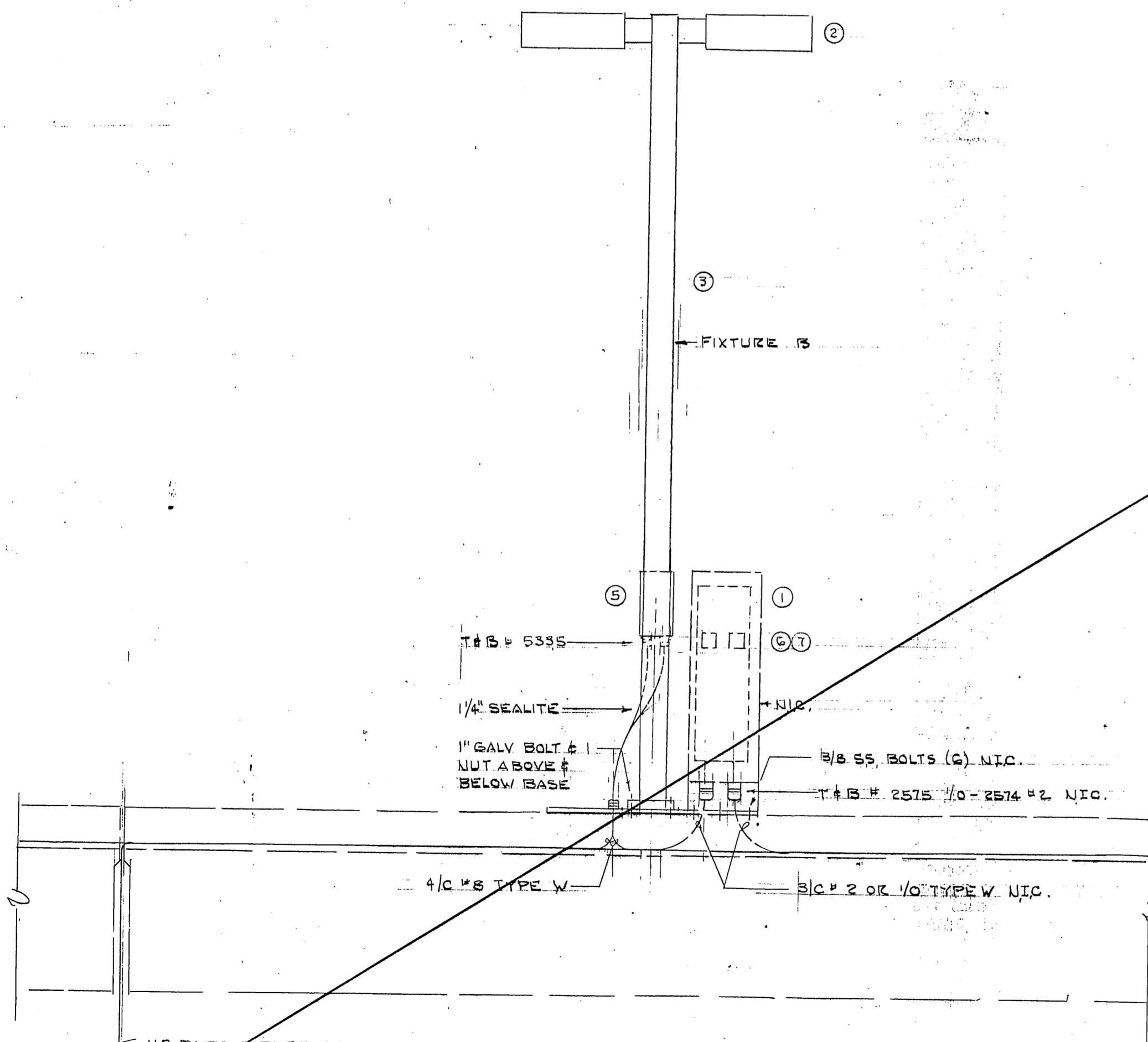
EQUIPMENT SCHEDULE					
ITEM	DESCRIPTION	QTY	TOTAL		REMARKS
1	CABINET HOFFMAN 48x36x16	—	—	N.I.C.	SEE NOTE 1
2	MCPHILBEN 17RAG1-DB-217-2D (B)	1	1B		2-100HPS
3	TRONLINE 6034 MOD (B)	1	1B		HOT DIP GALV. 11/2" B.C.
4	TIERNLEY 480V 1φ TO 120/240V	—	—	N.I.C.	SEE NOTE 2
5	SQUARE D H3C1R8-3E P23GTAE1	1	1B		1/2" BA FUSE 2 HGSN
6	HUBBELL 31CM10 (LS-302)	—	—	N.I.C.	
7	" 60CM23 & 74CM24	—	—	N.I.C.	



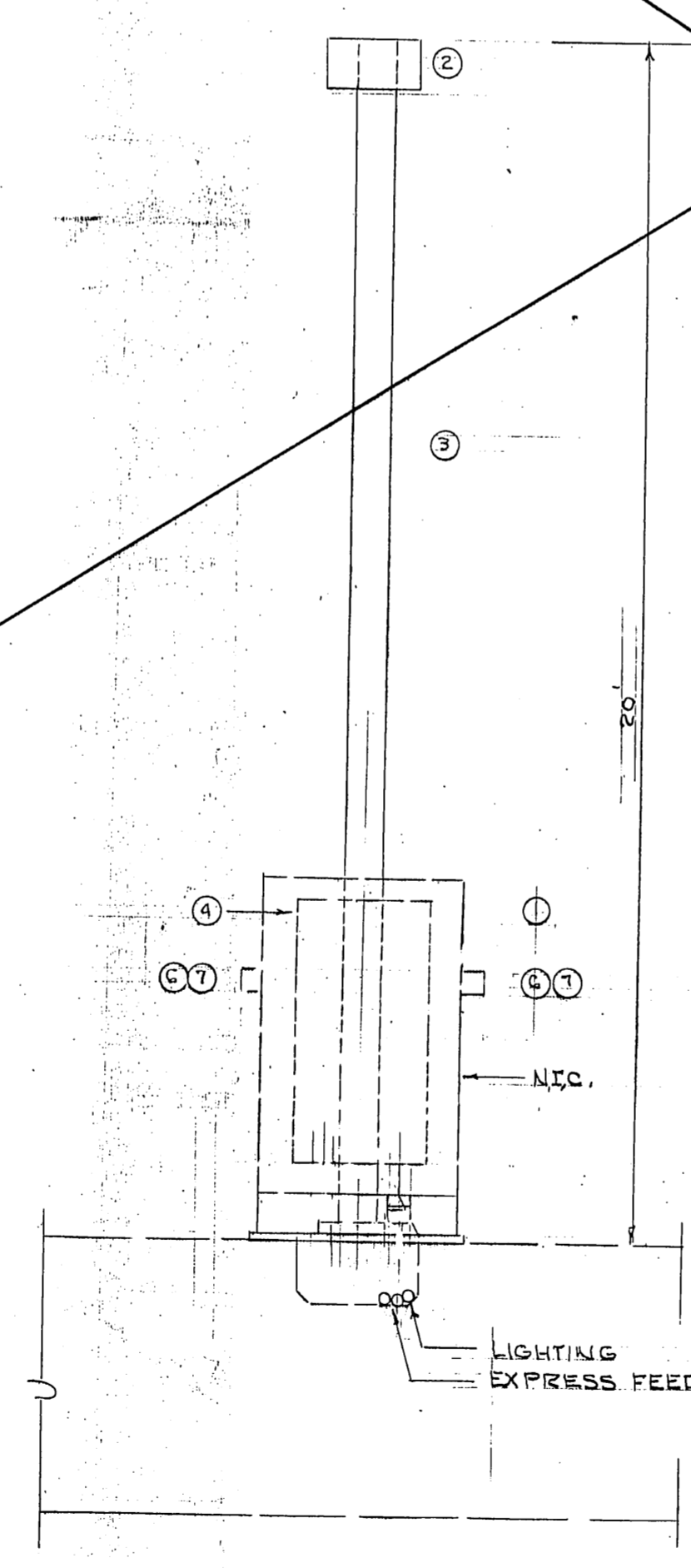
LIGHTING DIAGRAM
NO SCALE



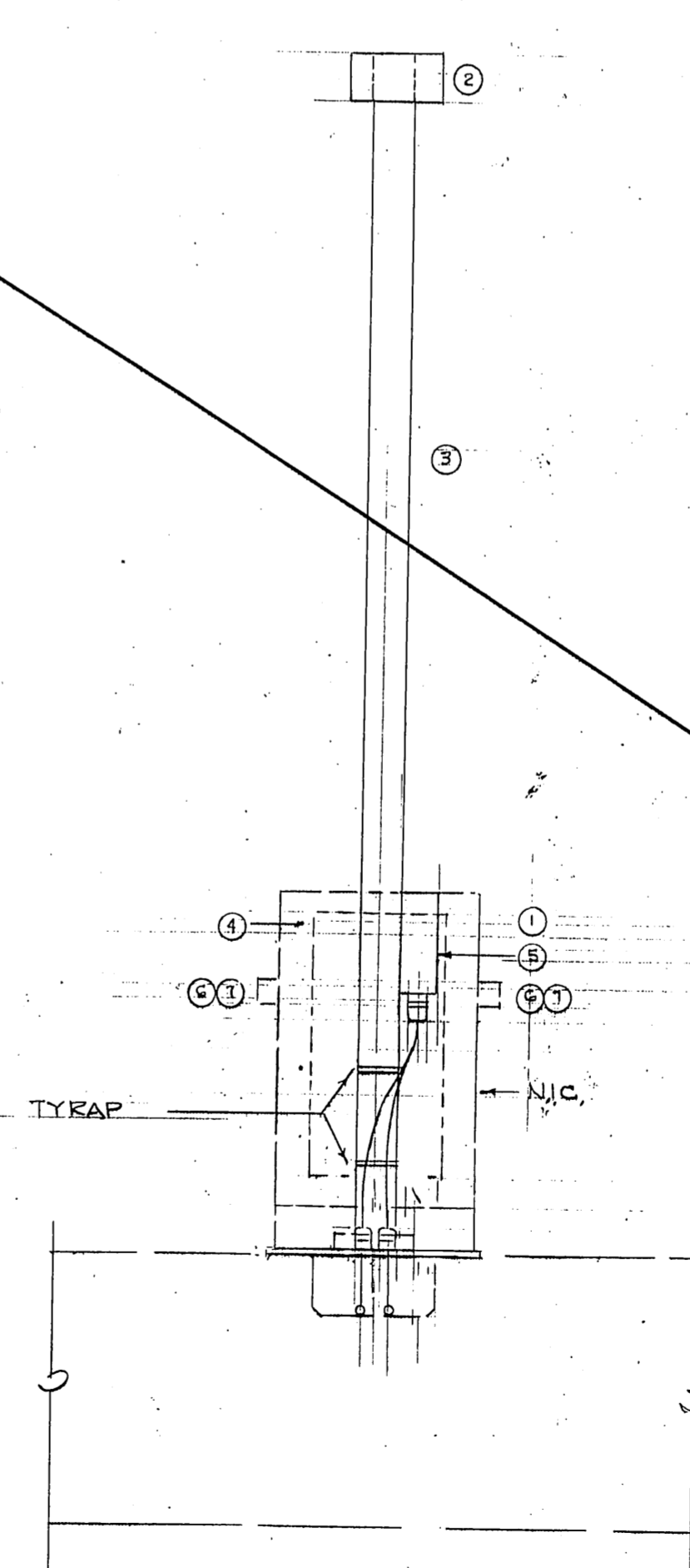
POWER DIAGRAM
NO SCALE



ELEVATION
1/2" = 1'-0"



ELEVATION
1/2" = 1'-0"



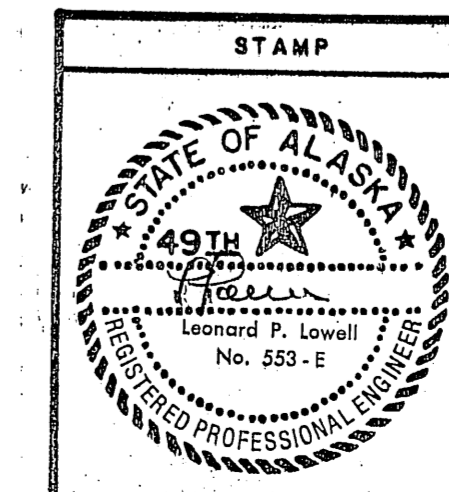
ELEVATION
1/2" = 1'-0"

DELETED (ENTIRE SHEET)

REVISED 8/31/86

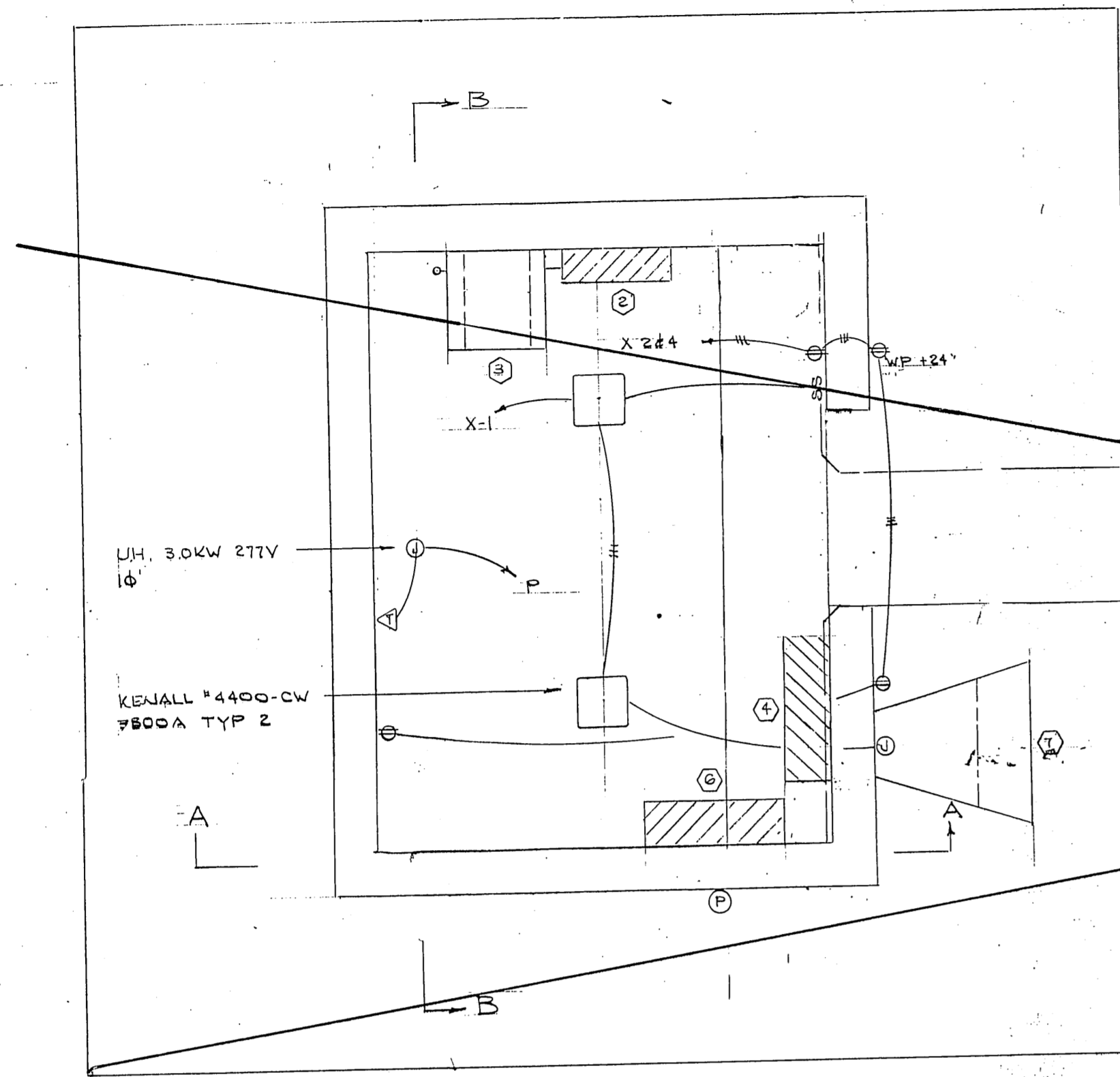
M.H.
10/3/87

E-3

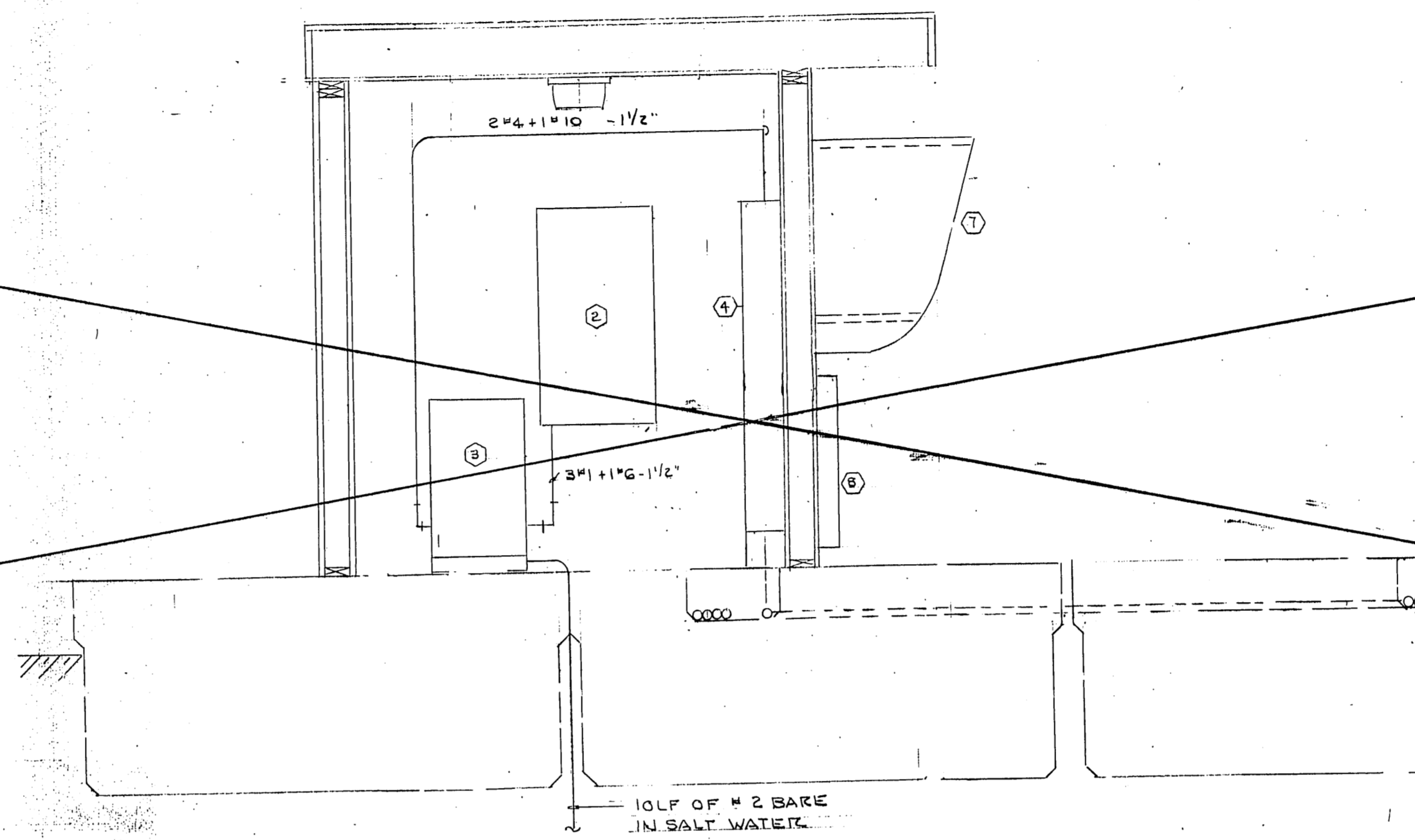


DO NOT SCALE THIS DRAWING - USE DIMENSIONS			
STATE OF ALASKA			
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES			
Auke Bay		Alaska	
ELECTRICAL DETAILS			
DESIGNED LPL	CHECKED	DRAWN LPL	DATE 4-86
PROJECT NUMBER 67664, 67016, 67106		SHEET 40 OF 49	

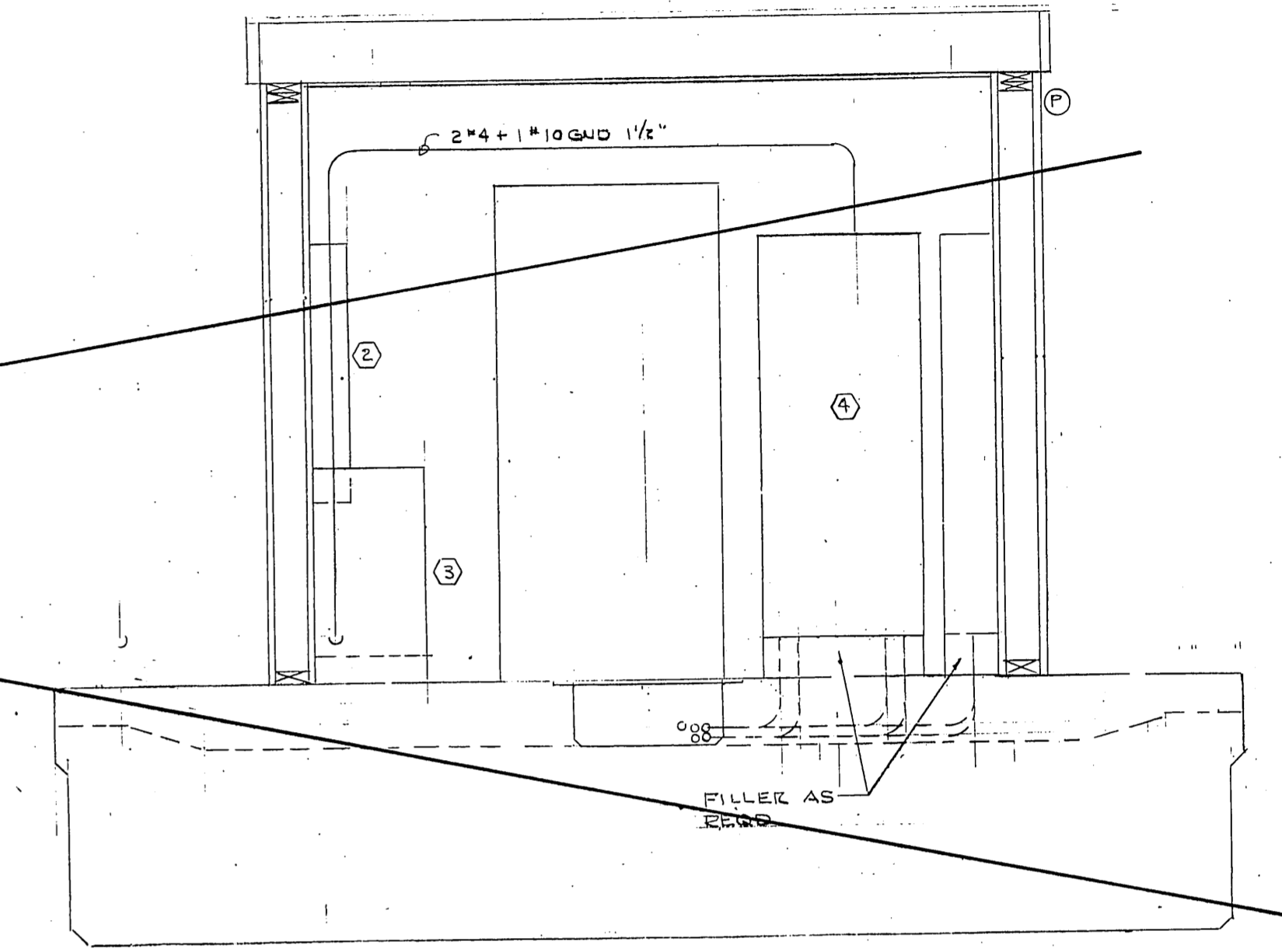
AUKE BAY



PLAN
1/2" = 1'-0"



SECTION A-A
1/2" = 1'-0"



SECTION B-B
1/2" = 1'-0"

EQUIPMENT SCHEDULE			
ITEM	DESCRIPTION	QTY	REMARKS
1	NOT USED		
2	PANEL X 120/240V 1φ		
3	TRANSFORMER 25KVA 480-120/240V T-4		EPOXY ENCAPSULATED
4	PANEL P 277/480V 3φ 500 I LINE		SEE E-5
5	NOT USED		
6	PANEL B		SEE E-5
7	TELP BOOTH BENNAIC NAWMAN BN855		
8	II TERMINAL SUPERIOR F2A 50PK		

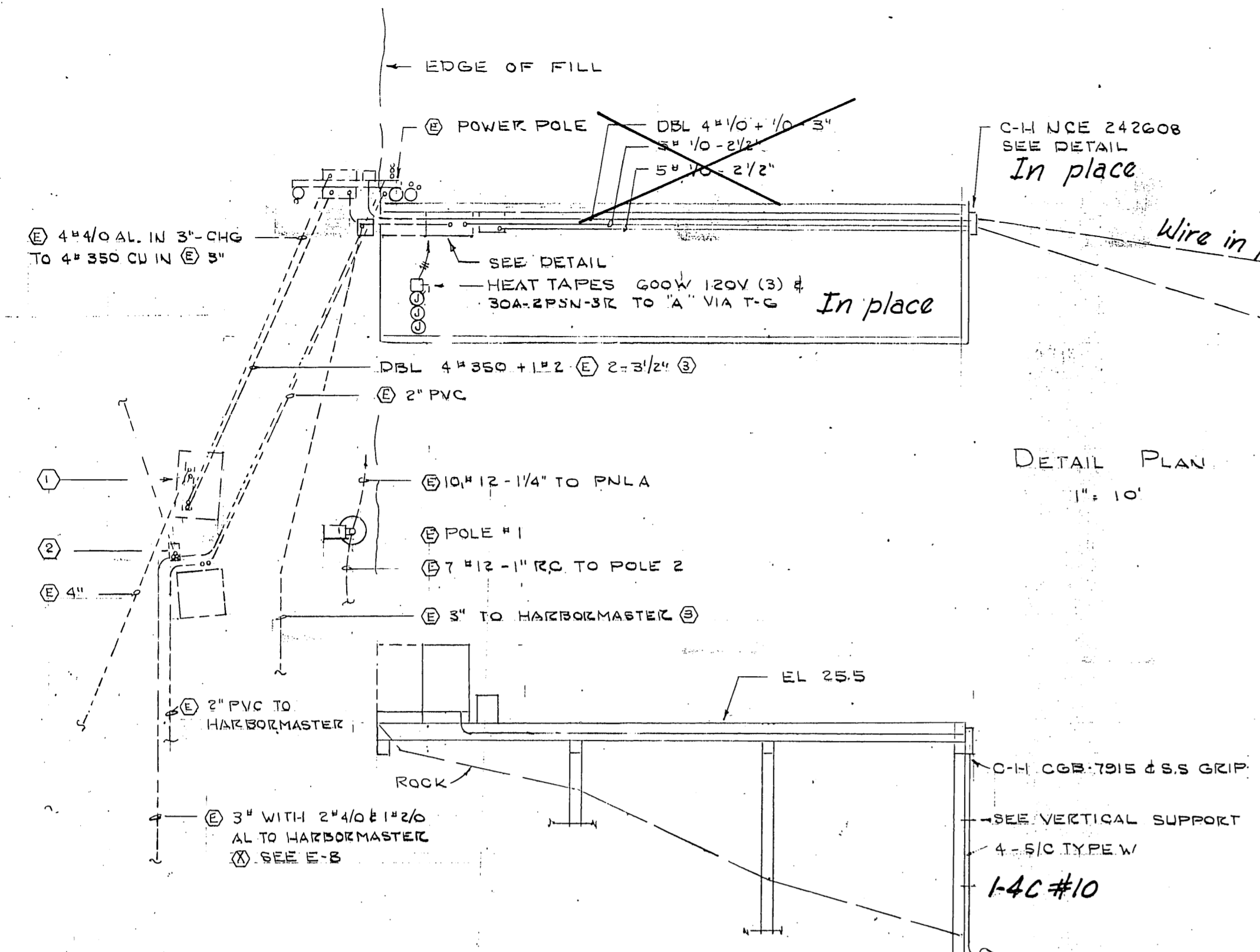
DELETED

M.H.
10/3/87

REVISED 8/31/86

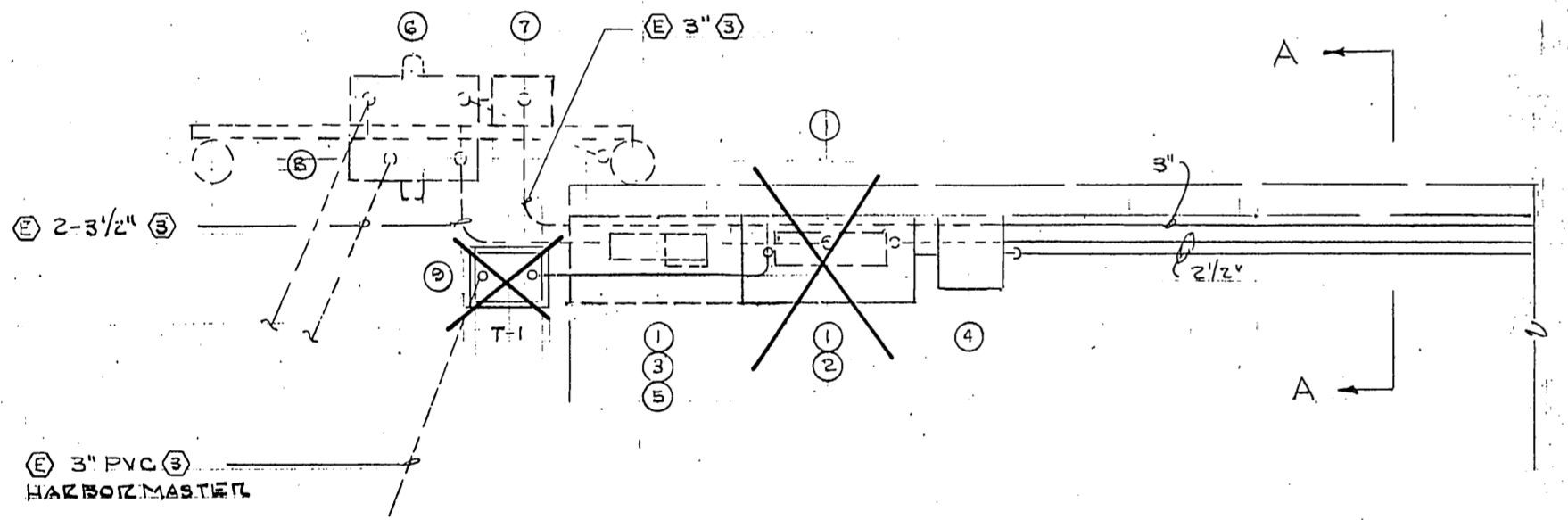
E-4

		DO NOT SCALE THIS DRAWING - USE DIMENSIONS	
		STATE OF ALASKA DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES DESIGN AND CONSTRUCTION Auke Bay Alaska ELECTRICAL DETAILS	
SCALE NOTED	SURVEYED	APPROVED	
DESIGNED LPL	DRAWN		
CHECKED	DATE 1/24/87		
	BY 2-25-86		
PROJECT NUMBER 67604, 67016, 67106	SHEET 41 OF 49		

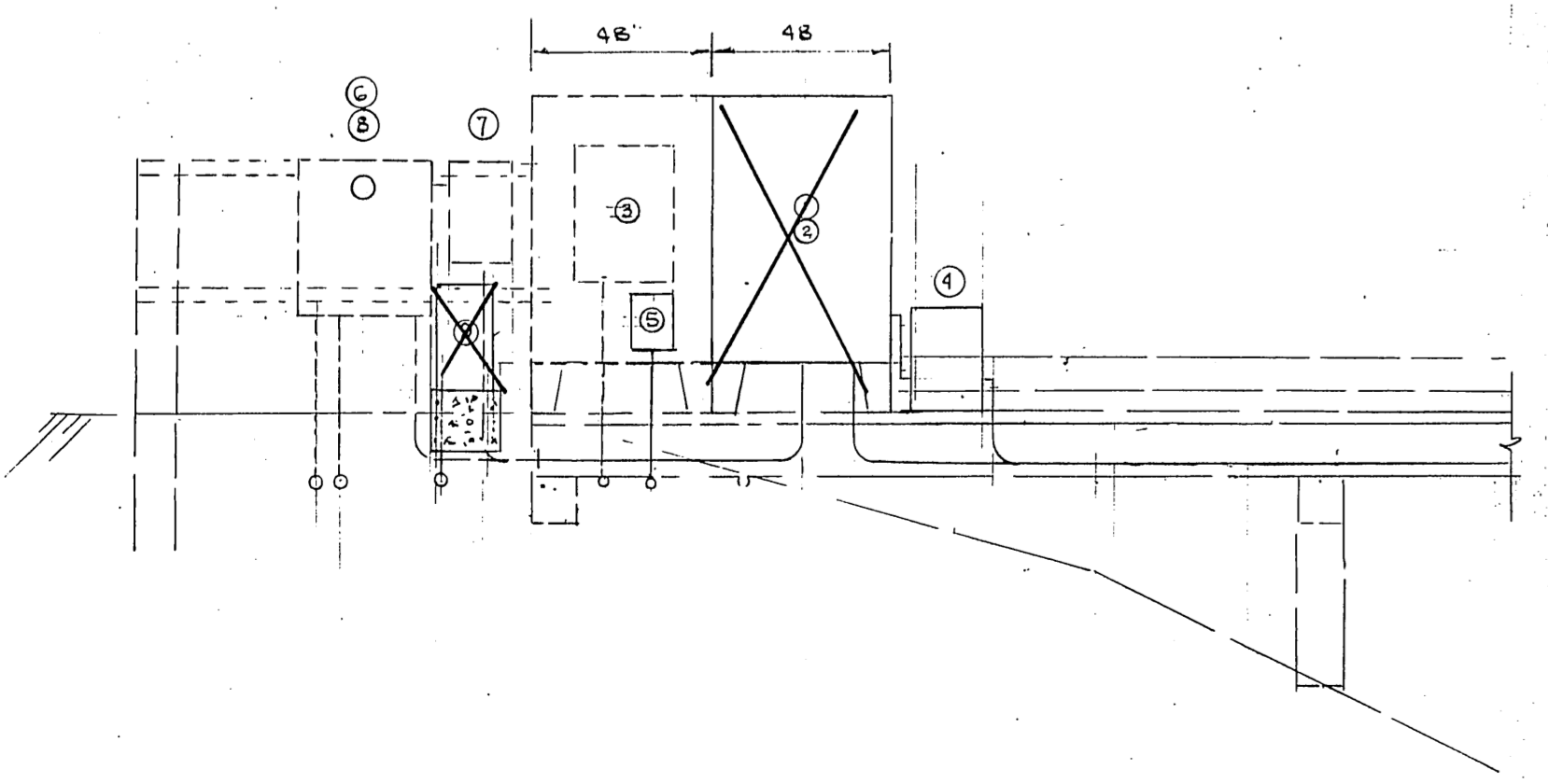


- ① EXISTING 75KVA 1247 TO 277/480V 3Ø TO BE CHANGED TO 150KVA BY UTILITY. BREAK OUT & PATCH SLABS AS REQD.
- ② EXISTING UTILITY FIBERGLASS SECONDARY SPLICE BOX
- ③ INSTALL WIRE AS SHOWN E-5 - EXTEND ② CONDUIT WHERE REQD.

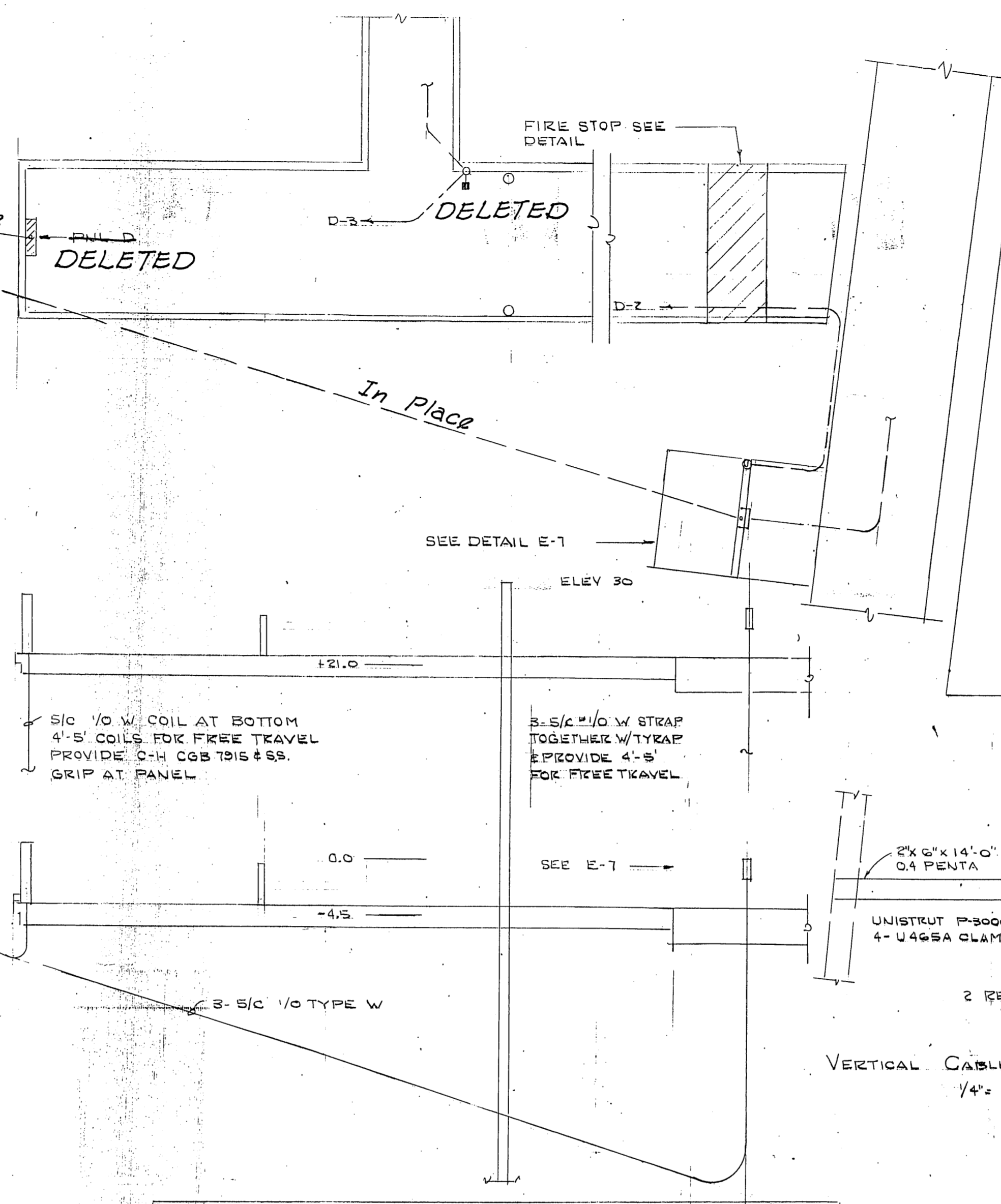
EXCAVATE 12" DEEP TRENCH TO -4' PROVIDE SAND BED & COVER WITH SACKED CONCRETE



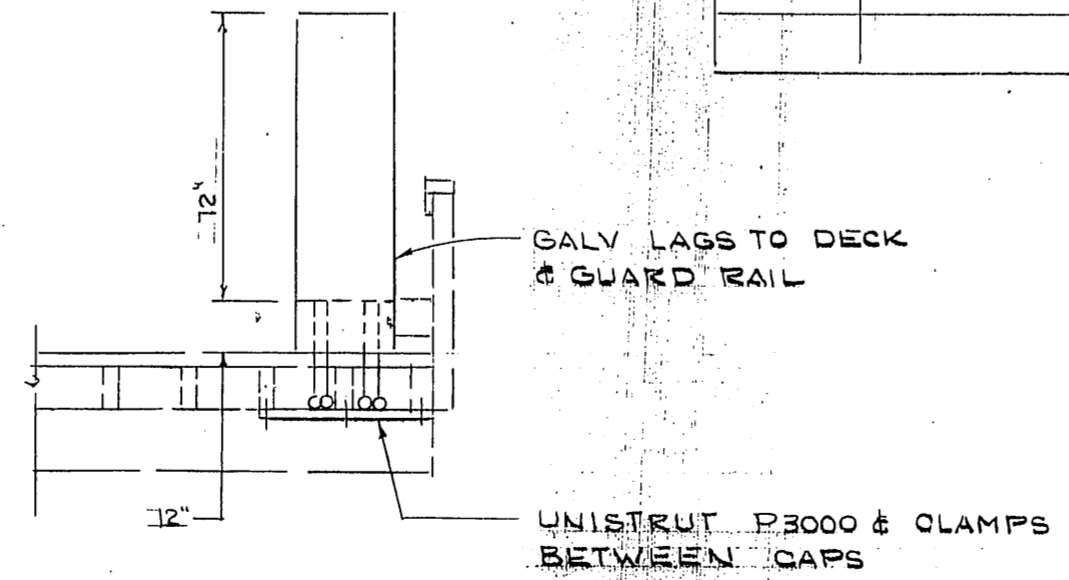
MDP PLAN
1/4" = 1'-0"



ELEVATION
1/4" = 1'-0"

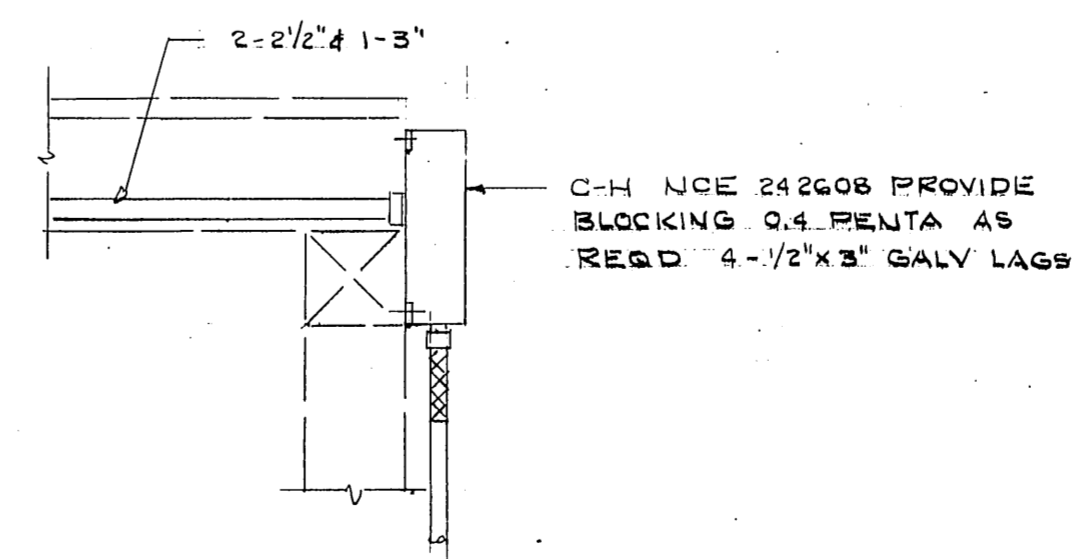


ELEVATION
1/4" = 1'-0"

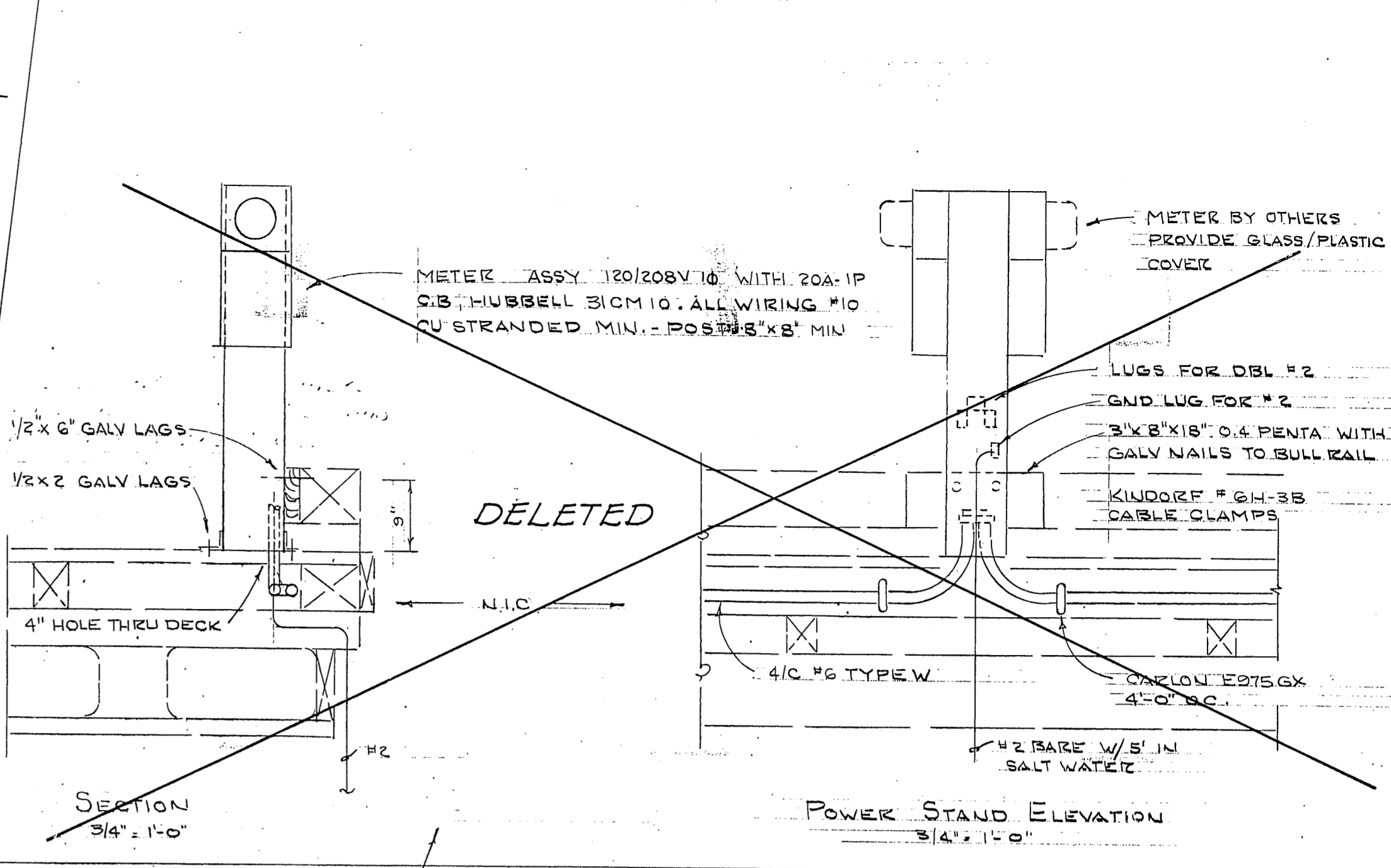


SECTION A-A
1/4" = 1'-0"

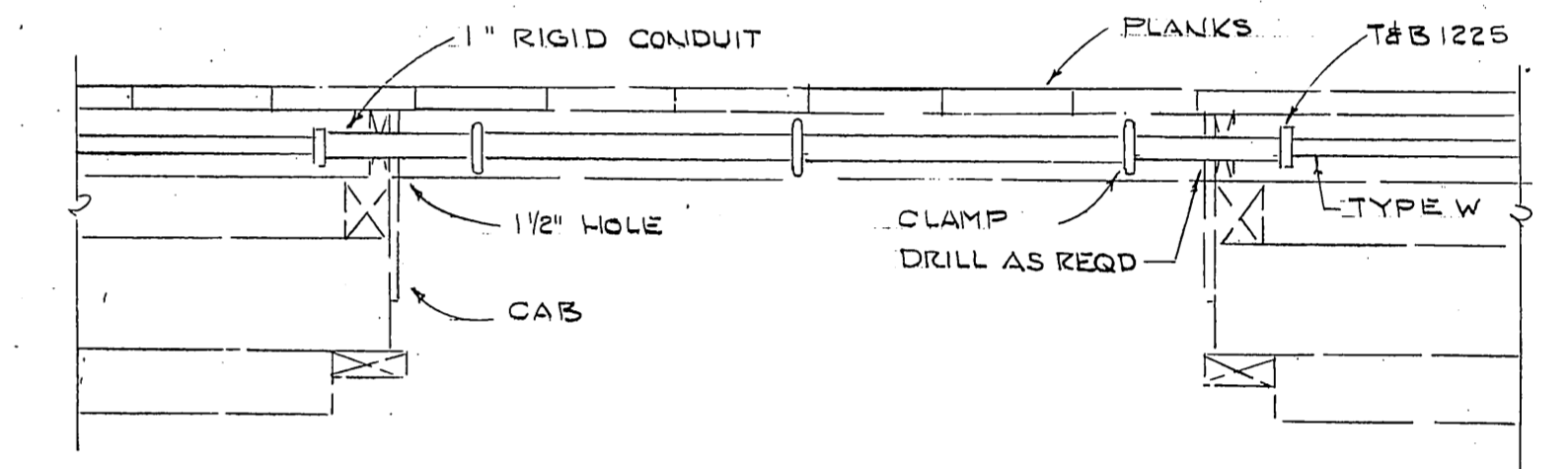
EQUIPMENT SCHEDULE			
ITEM	DESCRIPTION	QTY	REMARKS
1	HOFFMAN AT24824FSD + LEGS	①/1	EPOXY PAINT
2	MDP SECTION SQ D I LINE		277/480V 3Ø 600A
3	PNL A SQ D NH18 W/CONT	②	SEE E-8
4	T-3 TIERNEY ACL345-BT18H-COT		45KVA 480V 3Ø-120/240V 3Ø
5	T-6 " XCL103-SW18H15		3 KVA 277-120/240 1Ø
6	EXIST COASTGUARD CIT CABINET	①	400A 277/480
7	250/3 SQ D LHL 400-3R	②	
8	C/T CABINET 600A-277/480V 3Ø #13V	②	
9	T-1 TIERNEY AC125-BT18H	1	25KVA 480-120/240 1Ø



JUNCTION DETAIL
1/2" = 1'-0"



POWER STAND ELEVATION
3/4" = 1'-0"



SECTION THRU FIRESTOP
3/4" = 1'-0"

VERTICAL CABLE SUPPORT
1/4" = 1'-0"

M.H.
10/3/87

REVISED 8/31/84

E-5

DO NOT SCALE THIS DRAWING - USE DIMENSIONS

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
DESIGN AND CONSTRUCTION

Auke Bay Alaska

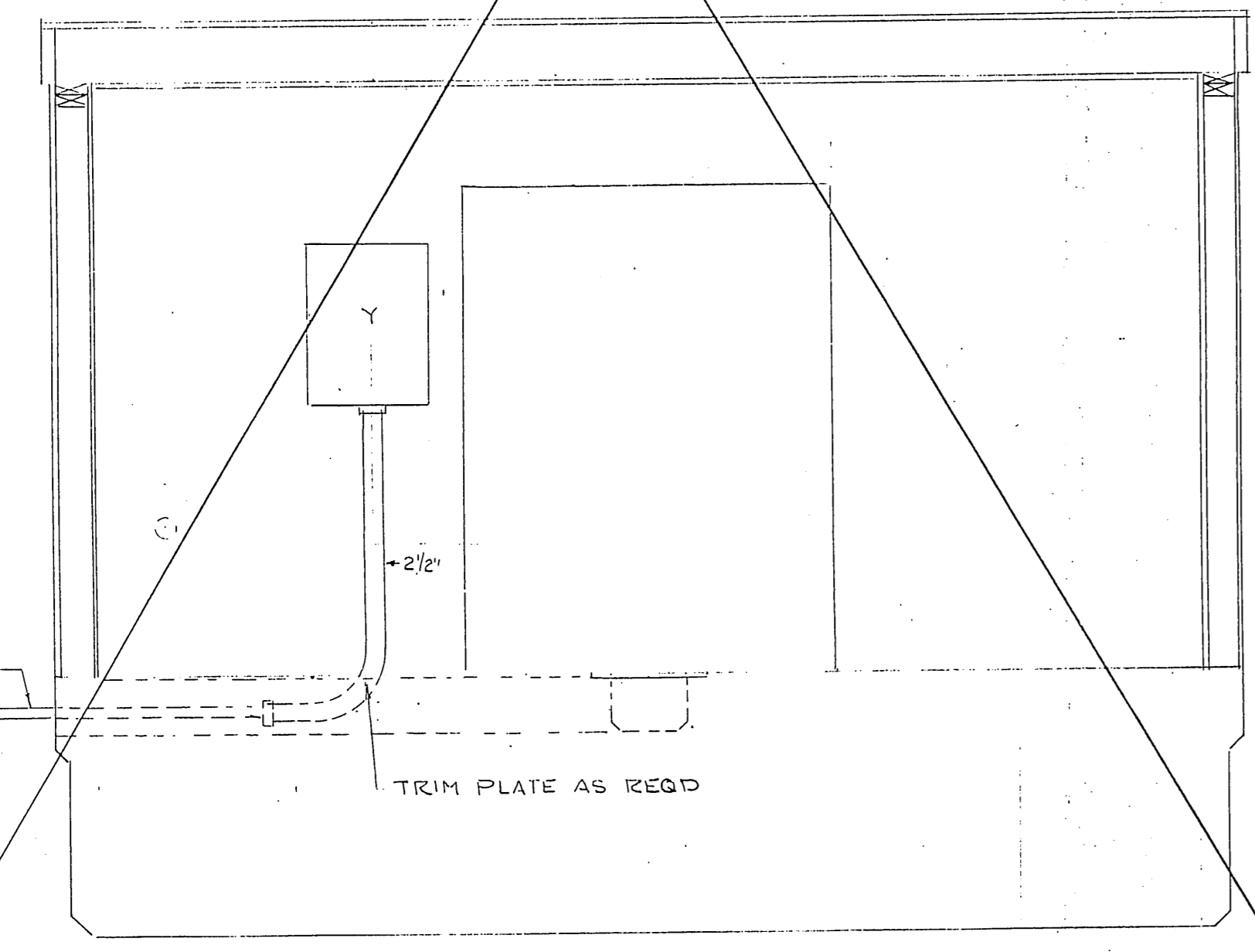
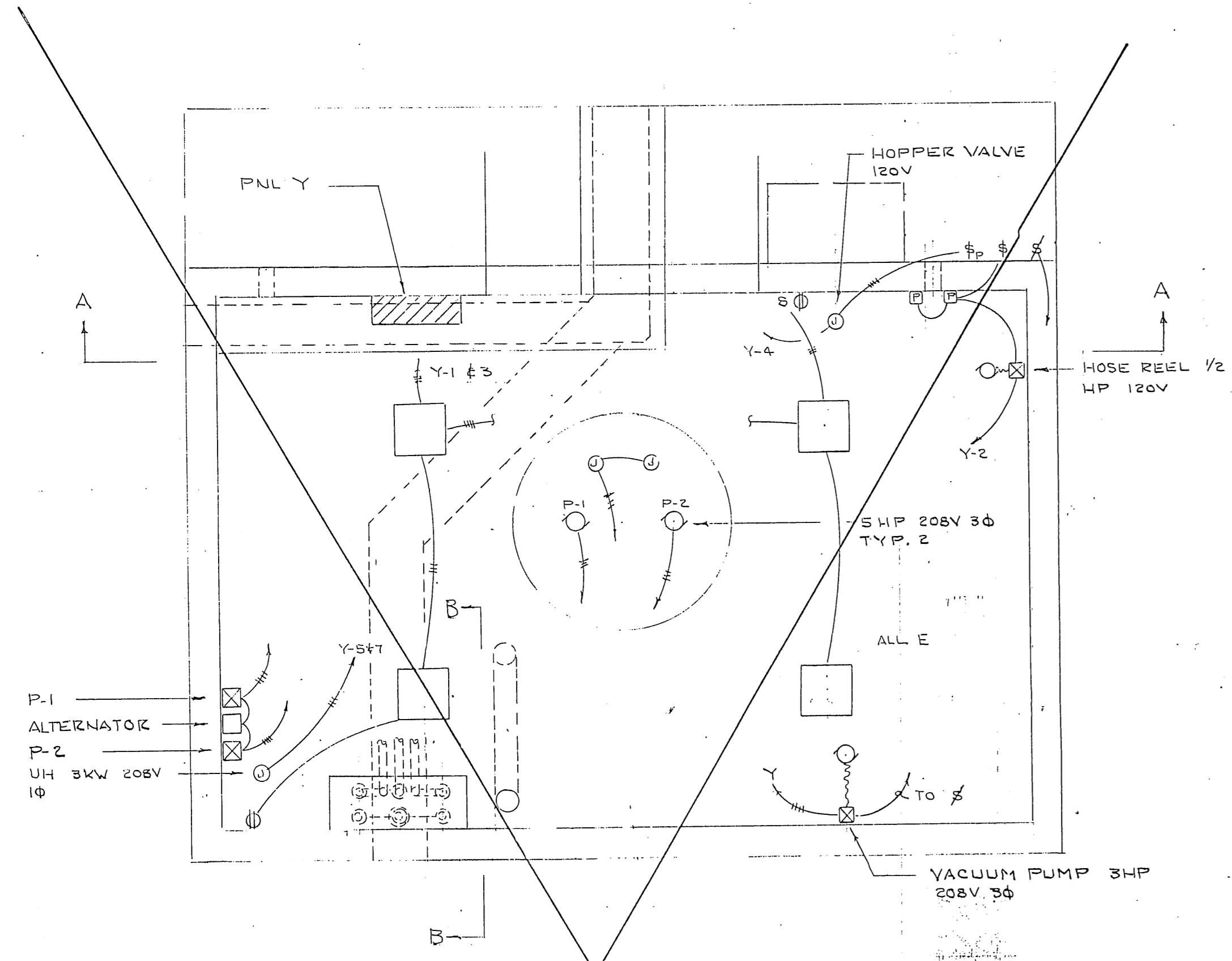
ELECTRICAL DETAILS

SCALE NOTED DESIGNED LFL DRAWN DATE May 84 BY 1-20-86 CHECKED PROJECT NUMBER 67664, 69016, 69106 SHEET 42 OF 49

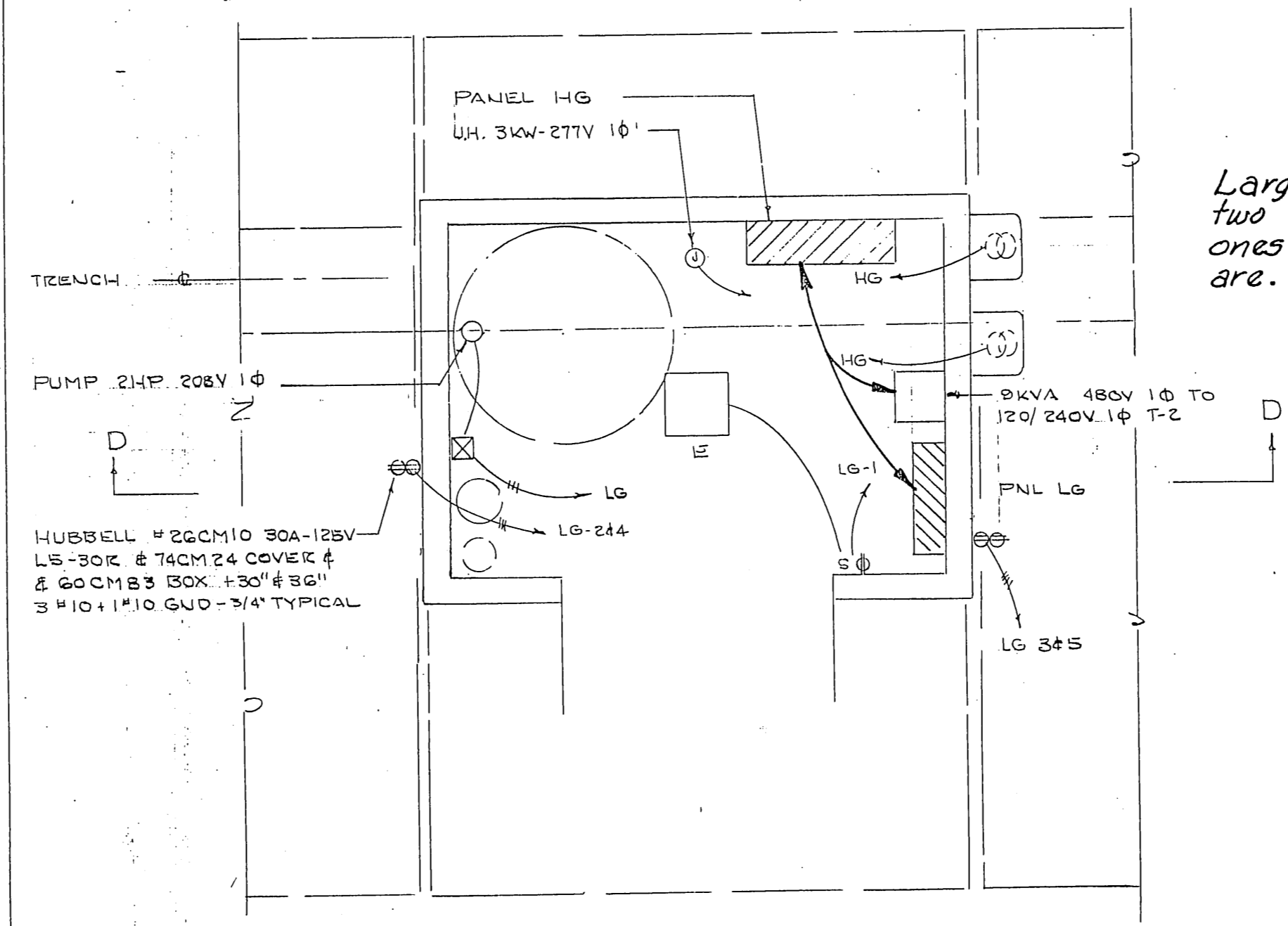
APPROVED

STATE OF ALASKA
49TH
REGISTERED PROFESSIONAL ENGINEER
Leonard P. Lowell
No. 553-E

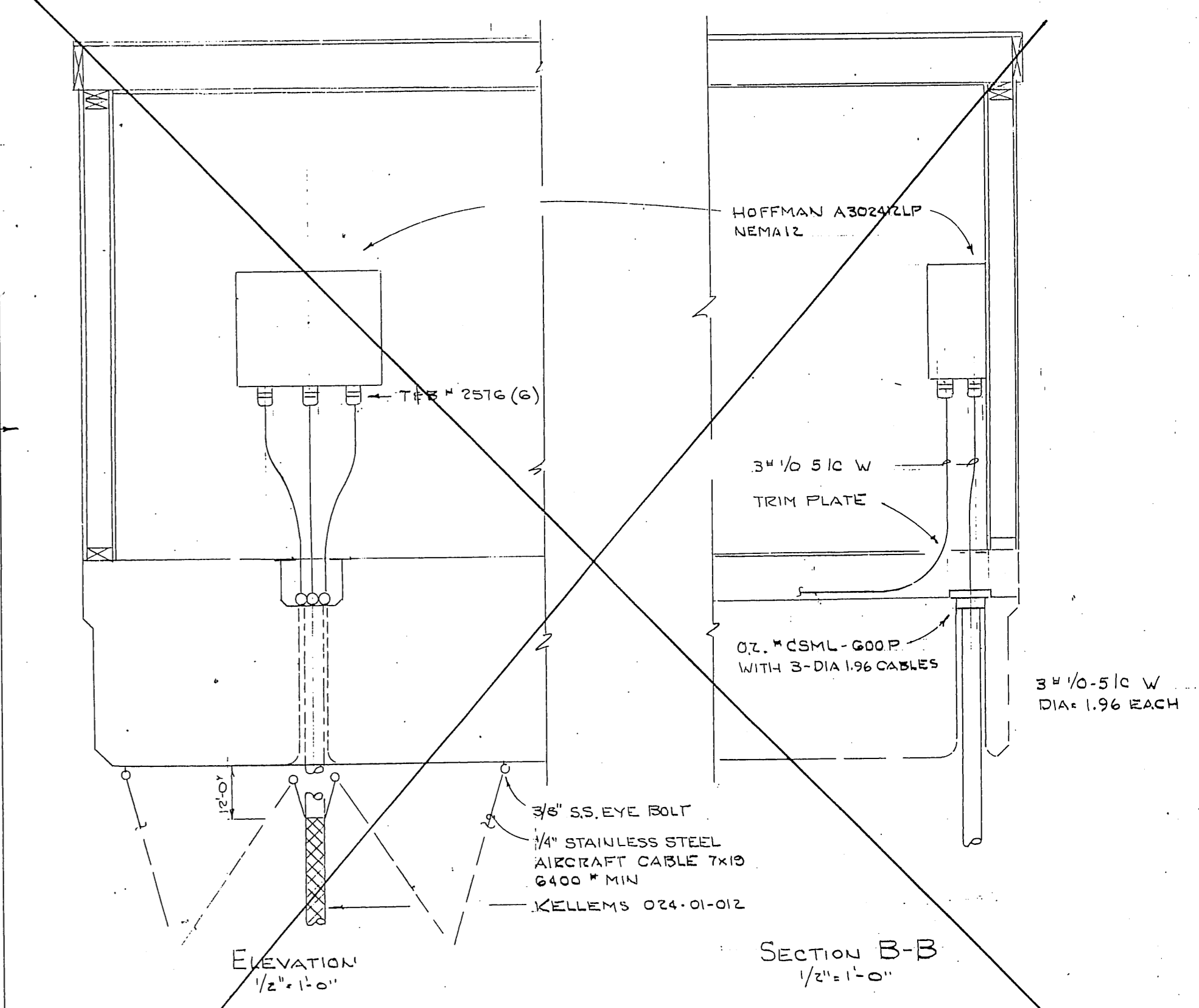
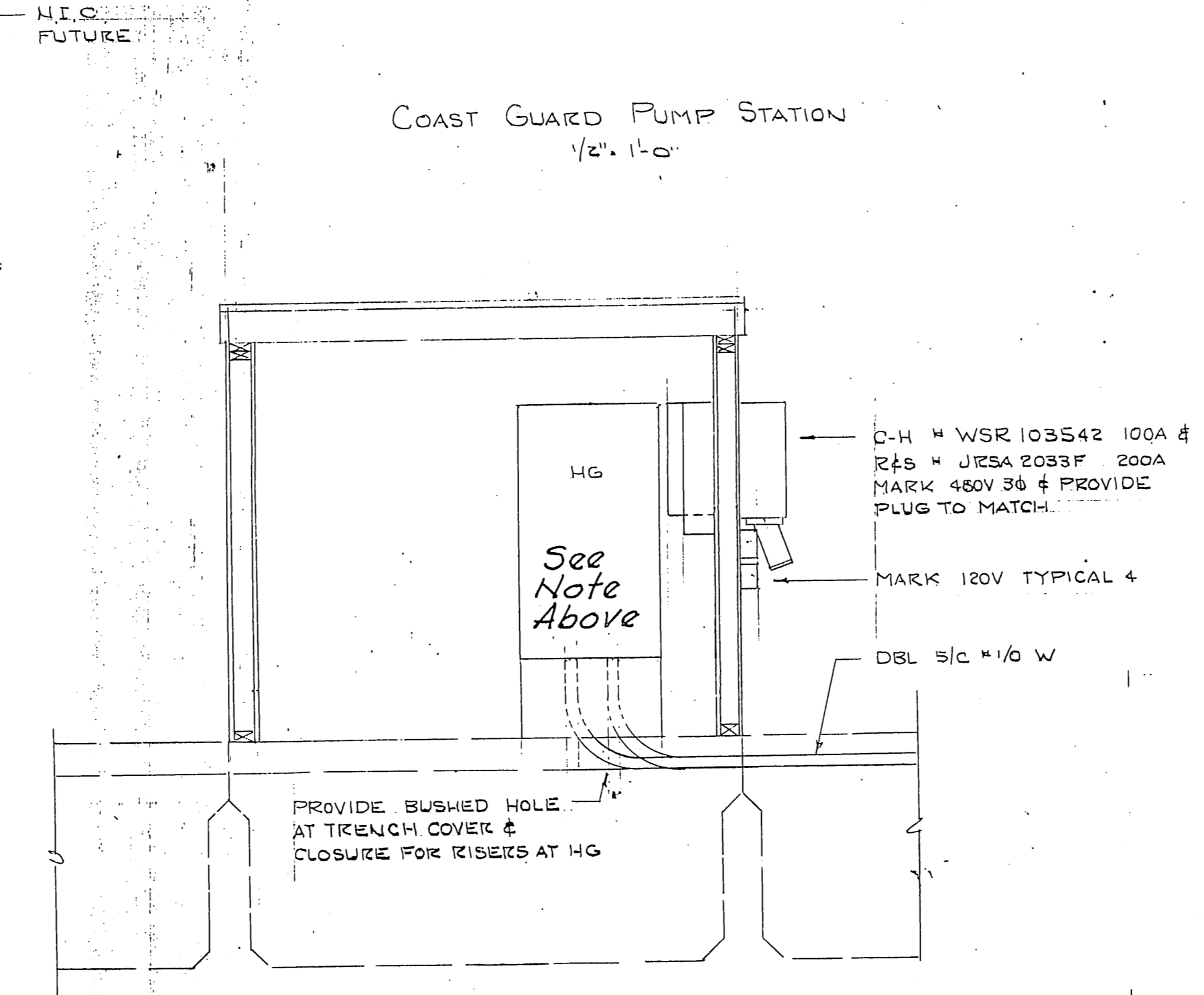
ALUKE BAY



DELETED



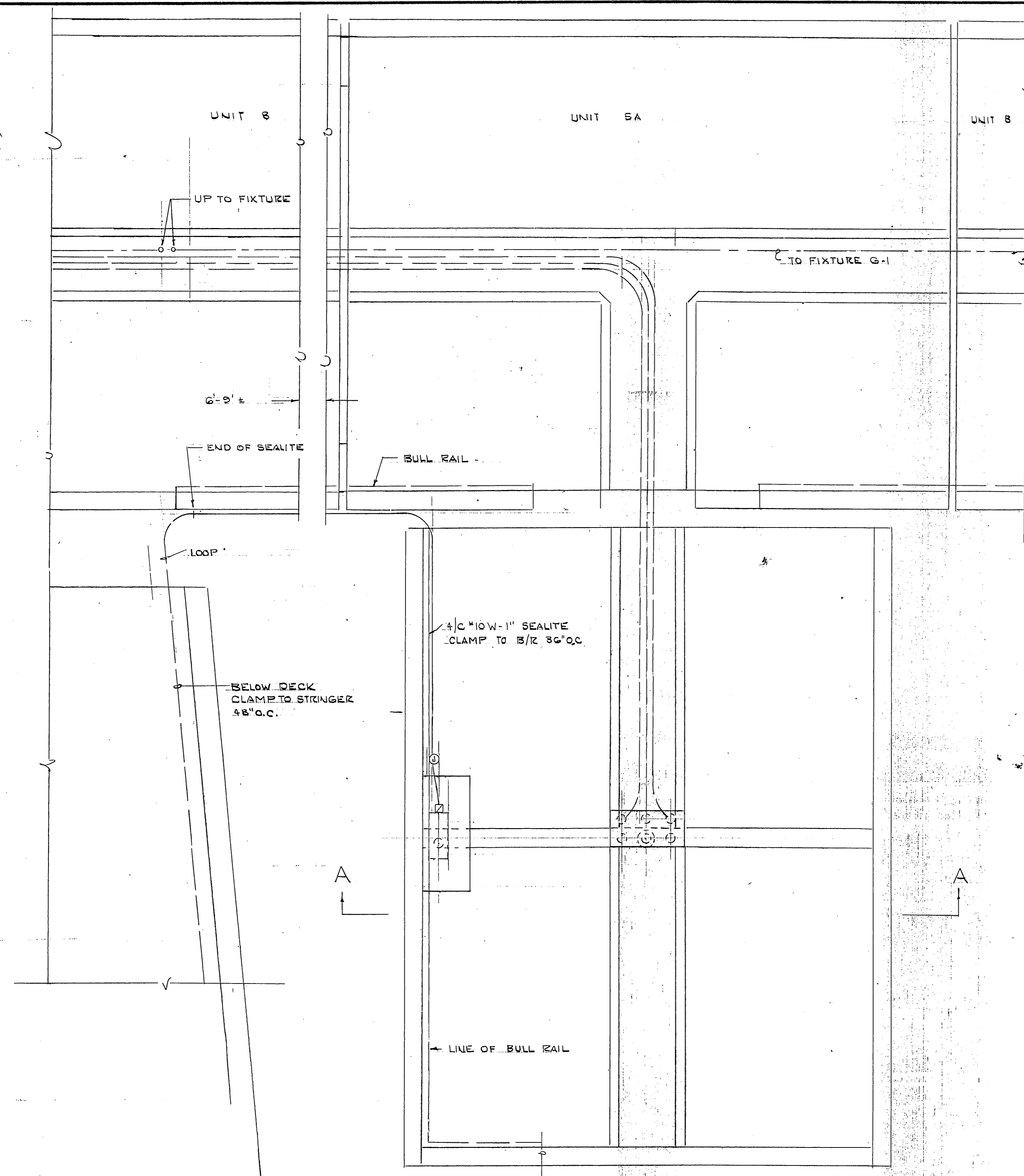
Large Panel mounted where two small ones are and 2 small ones mounted where large ones are.



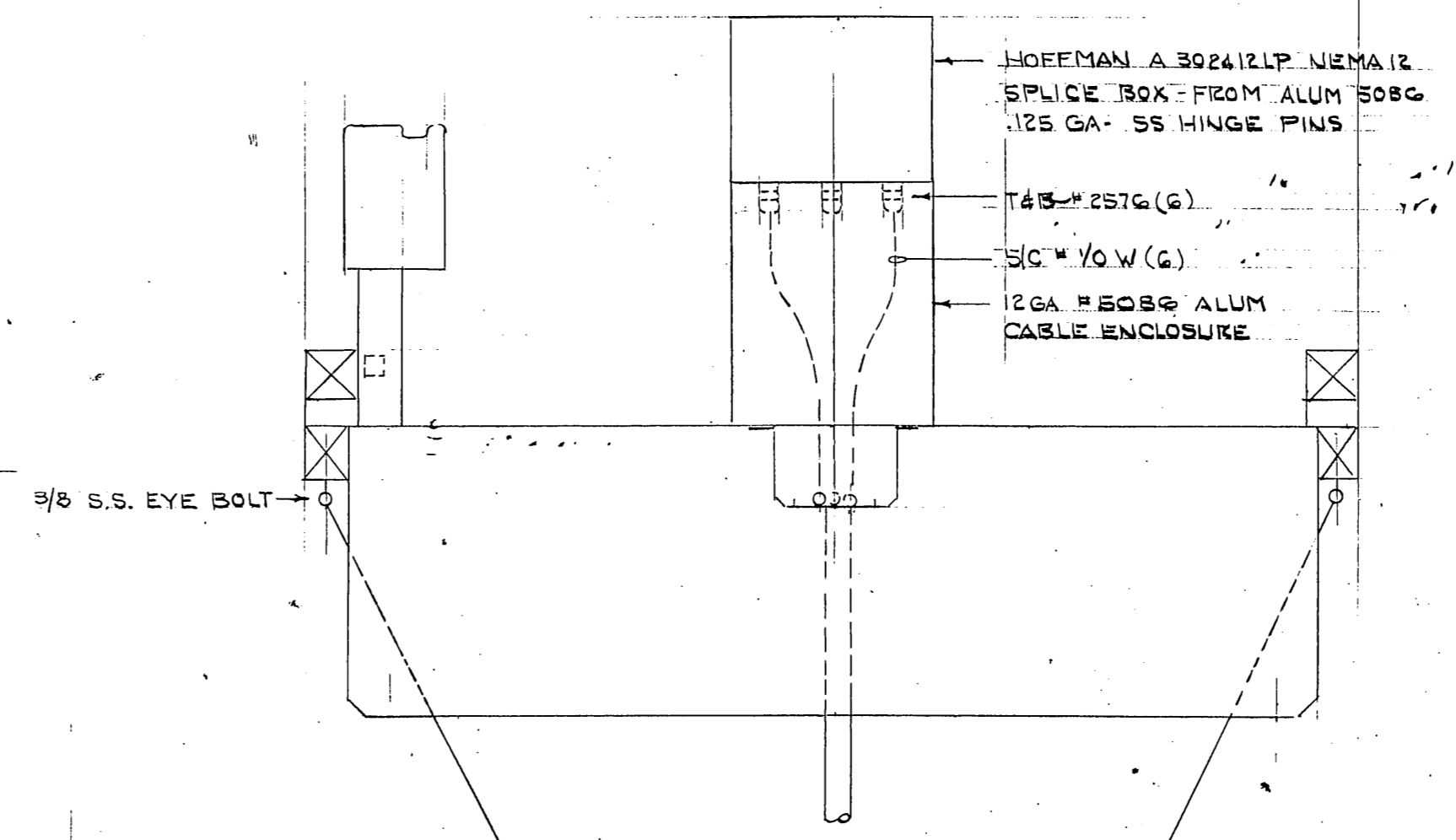
REVISED 8-31-86

M.H.
10/3/87

STAMP		DO NOT SCALE THIS DRAWING - USE DIMENSIONS	
		STATE OF ALASKA DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES DESIGN AND CONSTRUCTION	
		Auke Bay Alaska	
ELECTRICAL DETAILS			
SCALE NOTED	SURVEYED	APPROVED	
DESIGNED LPL	DRAWN		
CHECKED	DATE 2-20-86		
PROJECT NUMBER 67664, 69016, 69106	SHEET 43 OF 49		



SEWAGE PUMP OUT FLOAT PLAN
1/2" = 1'-0"

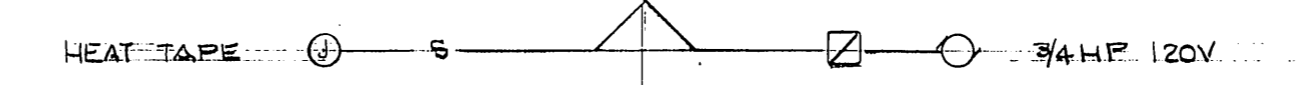


NOTE EYE BOLT CABLE & GRIP
STAINLESS STEEL COMPOSITION
TO MATCH TO AVOID ELECTROLYSIS

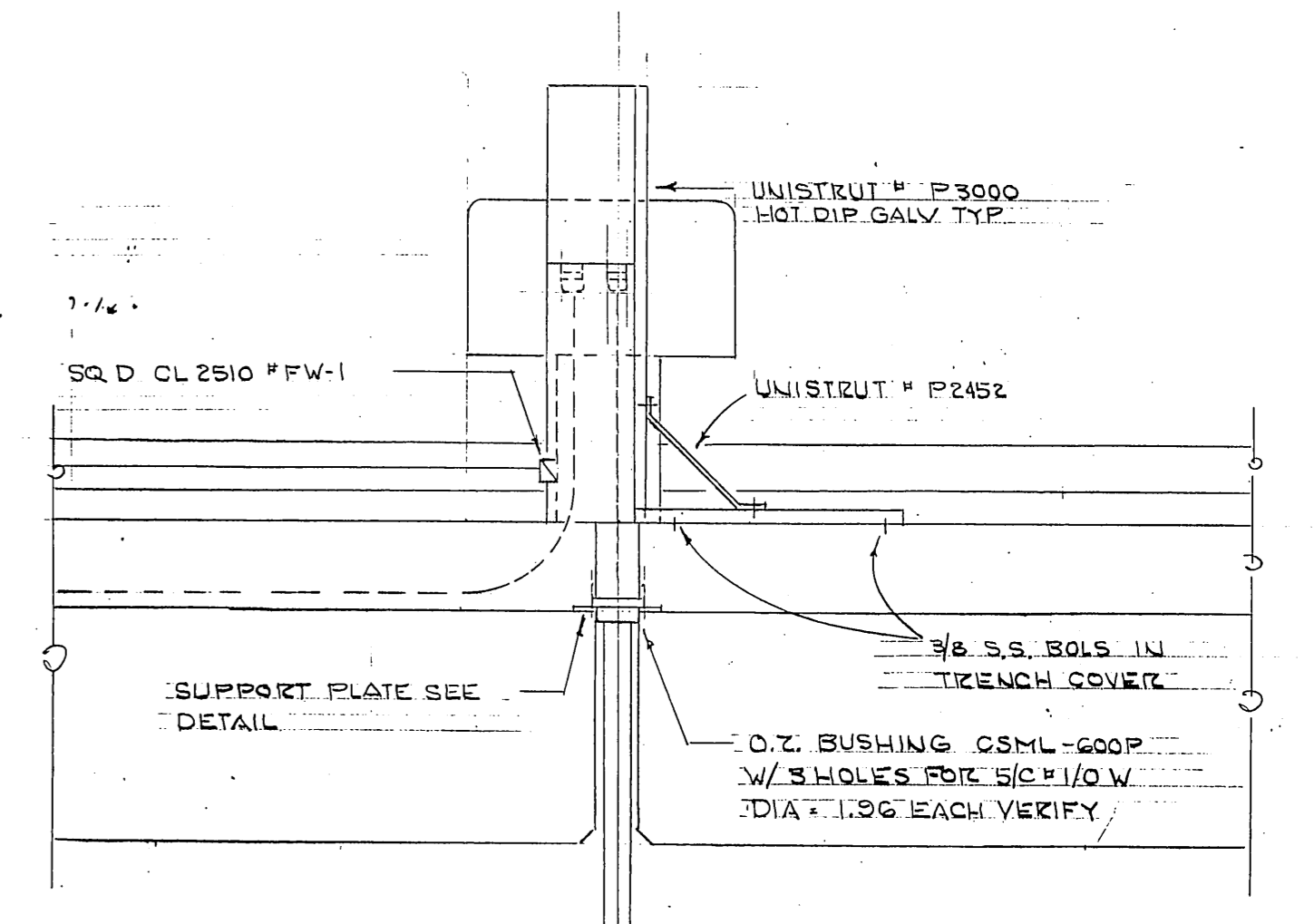
1/4 STAINLESS STEEL
AIRCRAFT CABLE T.X.10
6400" MIN (4)

KELLEMS Q24-01-012

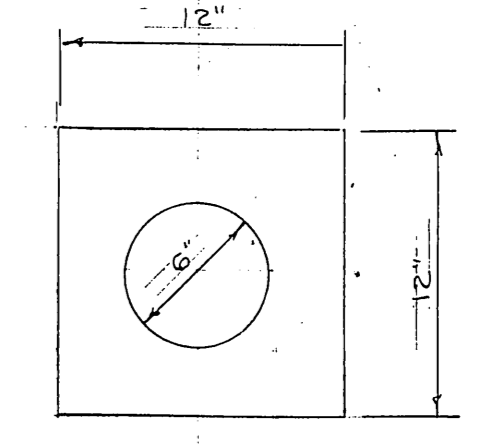
SECTION AA
1/2" = 1'-0"



ONE LINE DIAGRAM
NO SCALE

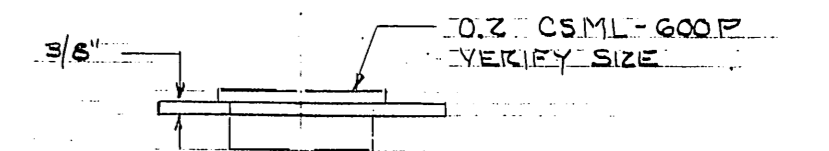


ELEVATION
1/2" = 1'-0"



3/8" STEEL PLATE - HOT DIP
GALV. AFTER FABRICATION

SUPPORT PLATE
1/2" = 1'-0"



ELEVATION
1/2" = 1'-0"

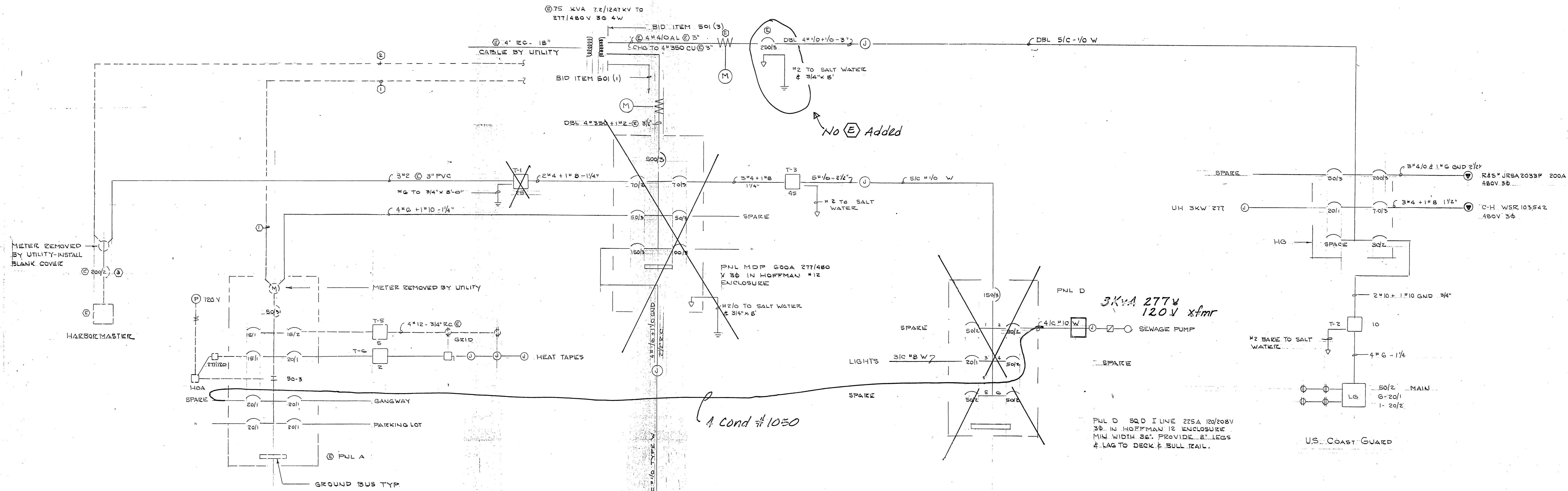
M.H.
10/3/87

NEW 5-31-86

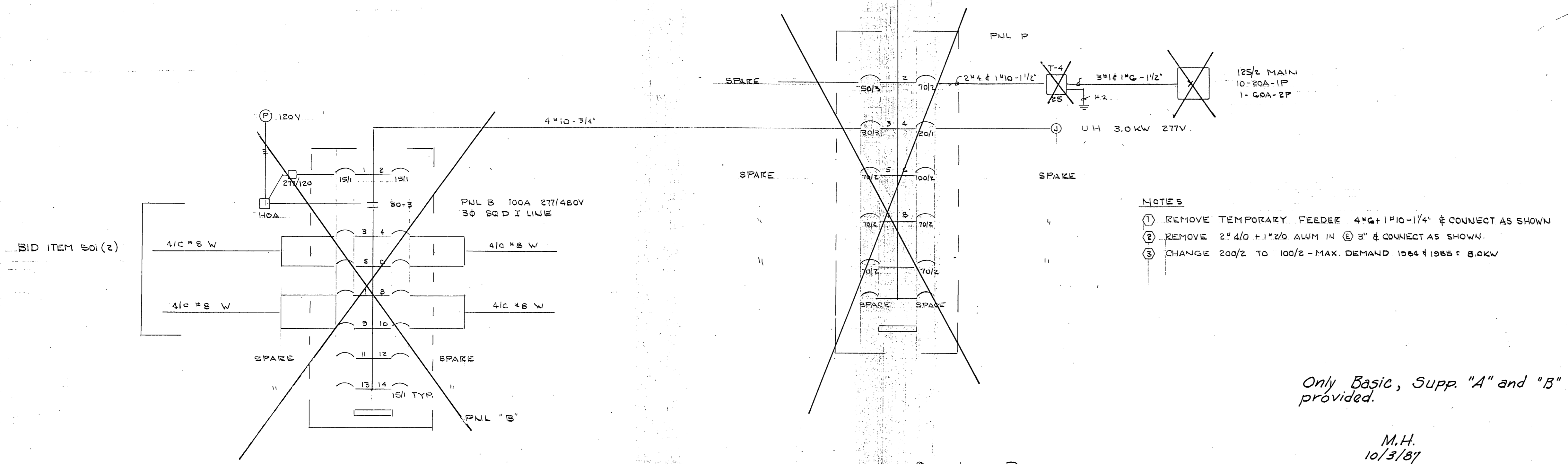
STAMP		DO NOT SCALE THIS DRAWING - USE DIMENSIONS	
		STATE OF ALASKA	
		DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES	
		Alaska Bay	Alaska
ELECTRICAL DETAILS			
DESIGNED <u>LPL</u>	CHECKED _____	DRAWN _____	DATE _____
PROJECT NUMBER <u>67004, 69016, 69106</u>	SHEET <u>44</u>		OF <u>49</u>

ALASKA BAY

E-7



NOTE GROUND GANGWAY EACH SIDE AT DOCK TO PILING WITH 2/0 BAKE



TRANSFORMER SCHEDULE						
NO	SIZE	PRV. V	Φ	SEC. V	Φ	REMARKS
T-1	25	480	1	120/240	1	ON CONC PAD
T-2	10	480	1	120/240	1	SEE E-7
T-3	45	480	3	120/208	3	
T-4	25	480	1	120/240	1	SEE E-5
T-5	5	480	1	120/240	1	④ SPECIAL
T-6	3	277	1	120/240	1	SEE E-5

ALL OVER 10KVA WITH TAPS - ALL EPOXY ENCAPSULATED & COATED

REVISED 8-31-86

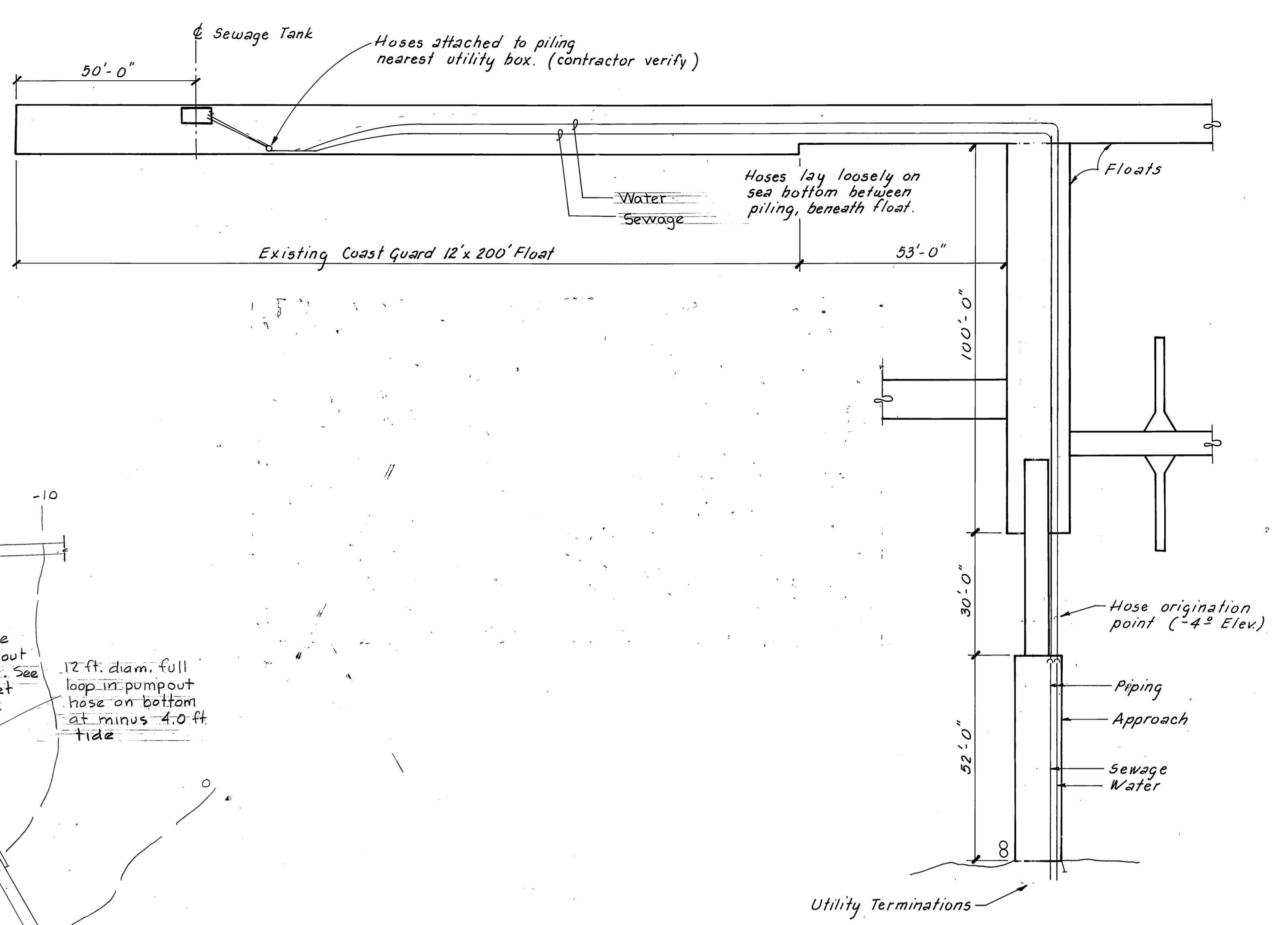
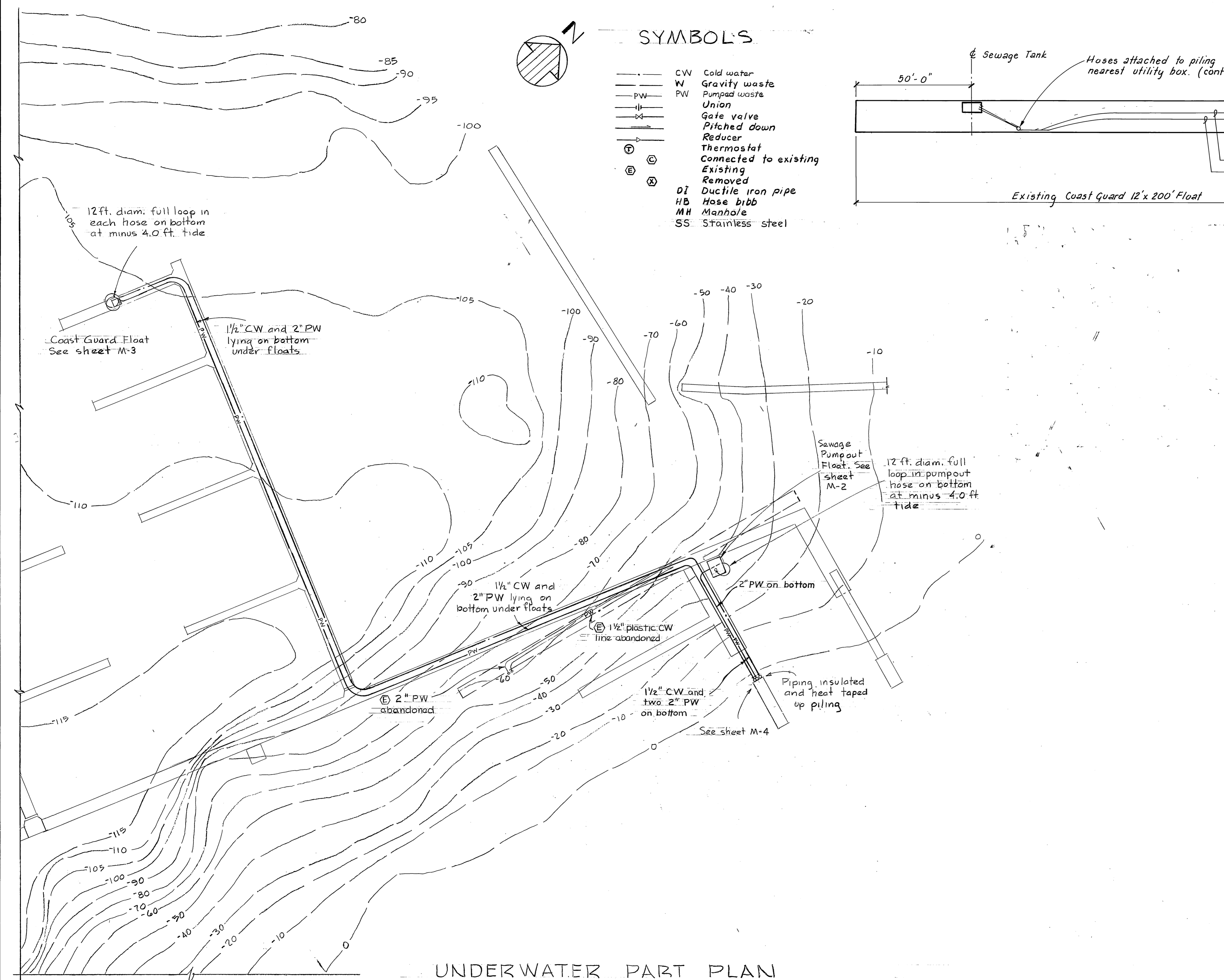
E-8

Only Basic, Supp "A" and "B" provided.

M.H.
10/3/87

ONE LINE DIAGRAMS
NO SCALE

STAMP 	DO NOT SCALE THIS DRAWING - USE DIMENSIONS	
	STATE OF ALASKA DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES DESIGN AND CONSTRUCTION Auke Bay, Alaska ELECTRICAL DETAILS	
SCALE NONE DESIGNED LPL CHECKED _____ PROJECT NUMBER 67664, 69016, 69106	SURVEYED _____ DRAWN _____ DATE May 87 Rev 2-25-86	APPROVED _____ SHEET 45 OF 49



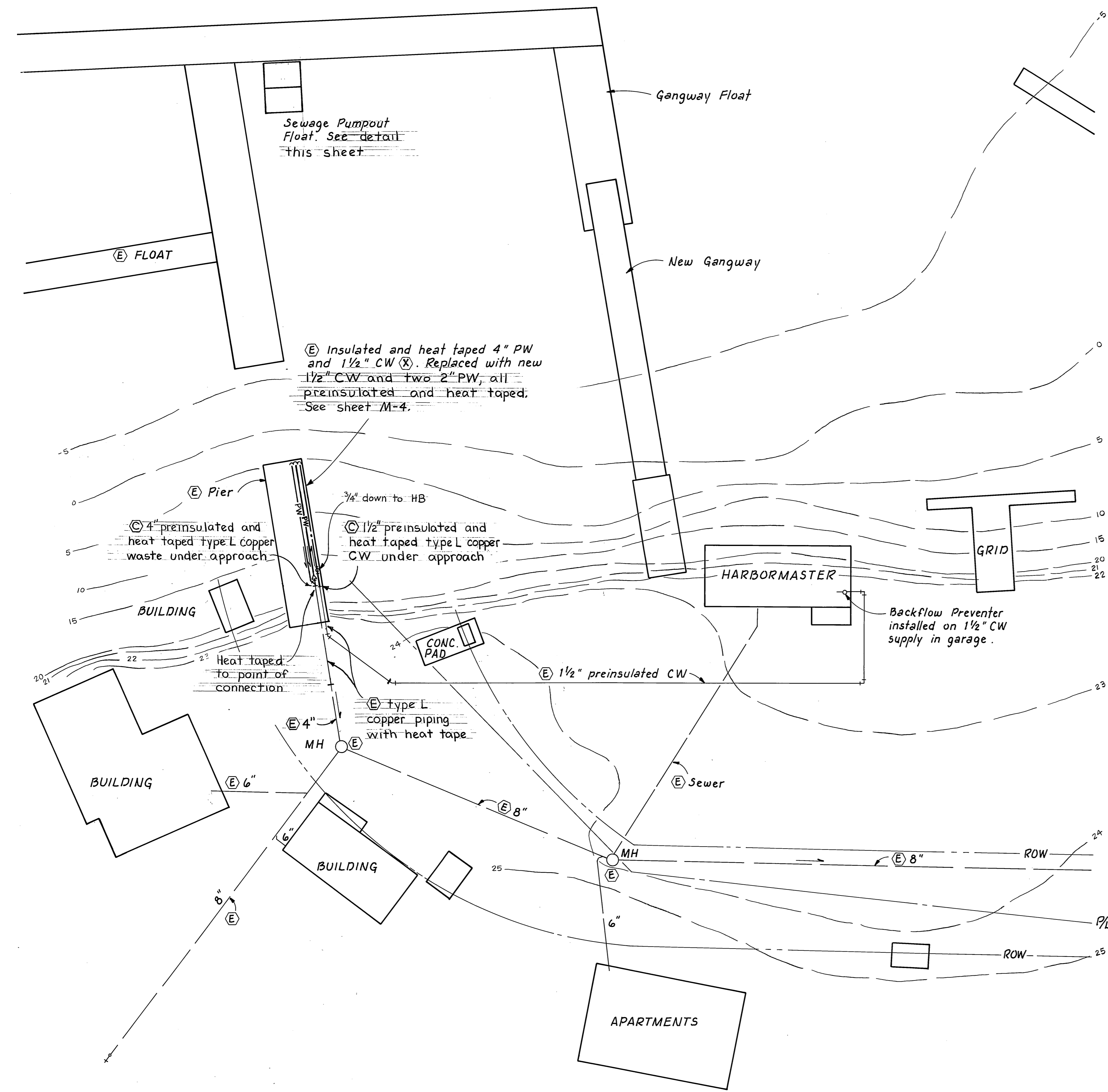
EXISTING UNDERWATER UTILITIES
1" = 20'

Notes: 1. Drawings from U.S. Coast Guard Engineering As-builts for existing CG Float. Information only; contractor to verify conditions.
2. Contractor to purge water and sewer lines and cap ends prior to removal.

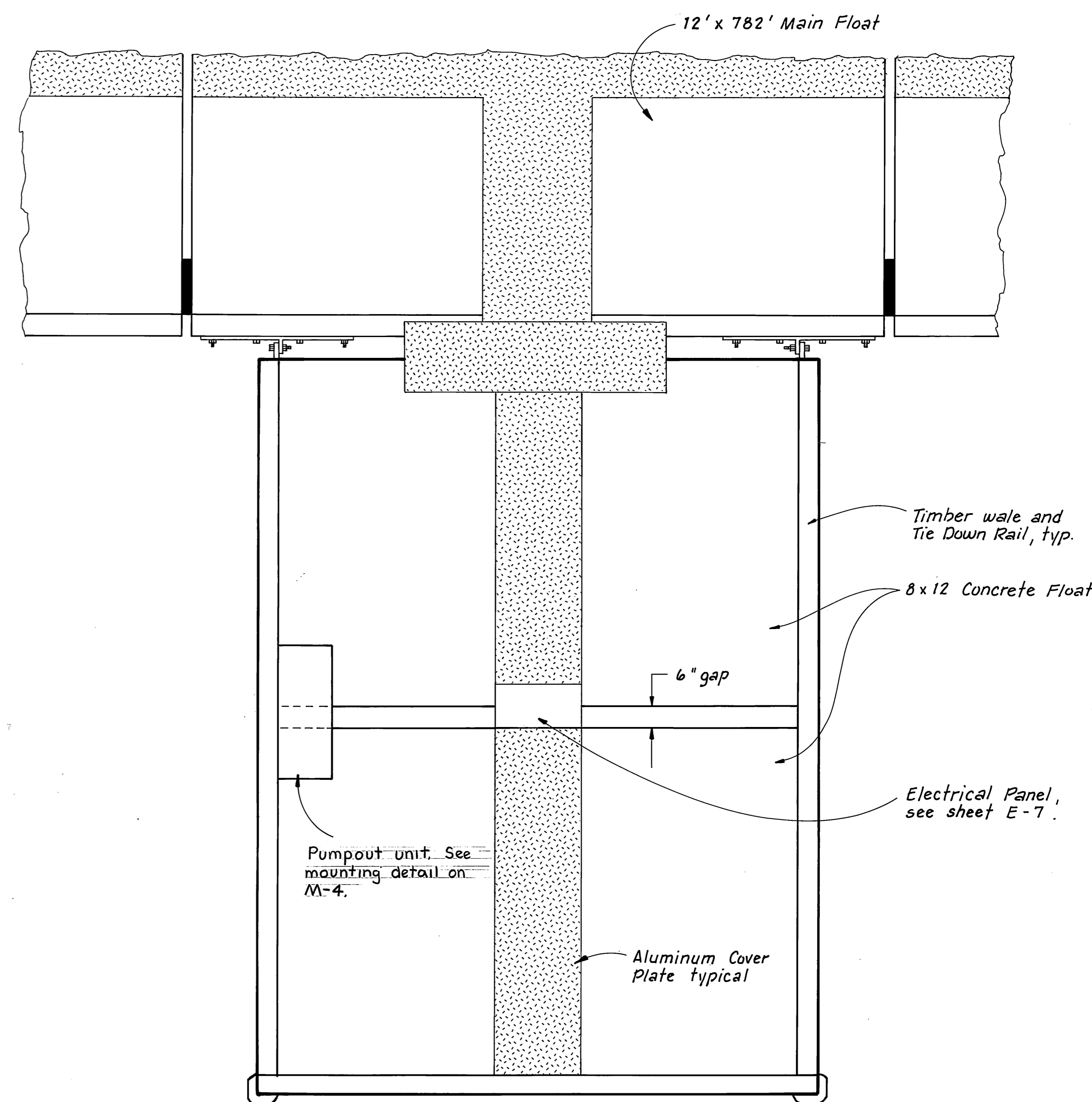
M-1

STAMP		DO NOT SCALE THIS DRAWING - USE DIMENSIONS	
		STATE OF ALASKA DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES DESIGN AND CONSTRUCTION	
		Auke Bay	Alaska
Mechanical Plan			
SCALE	SURVEYED	APPROVED	
DESIGNED V.A.	DRAWN V.A.		
CHECKED	DATE 11-86		
PROJECT NUMBER 67664, 6706, 6706	SHEET 40 OF 49		

M.H.
10/3/87



PART PLAN PARKING AREA
1" = 20'

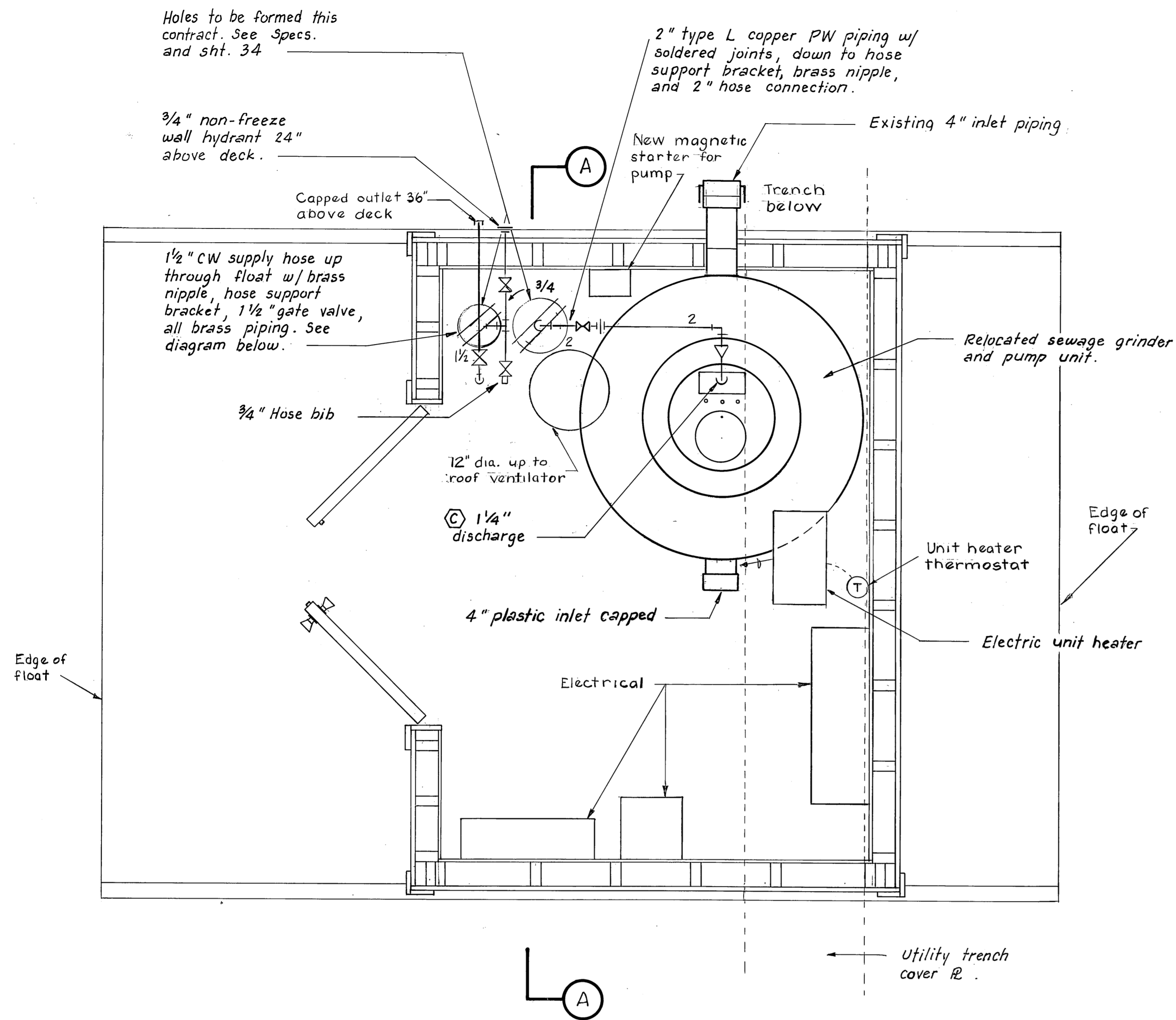


SEWAGE PUMPOUT FLOAT
1/2" = 1'-0"

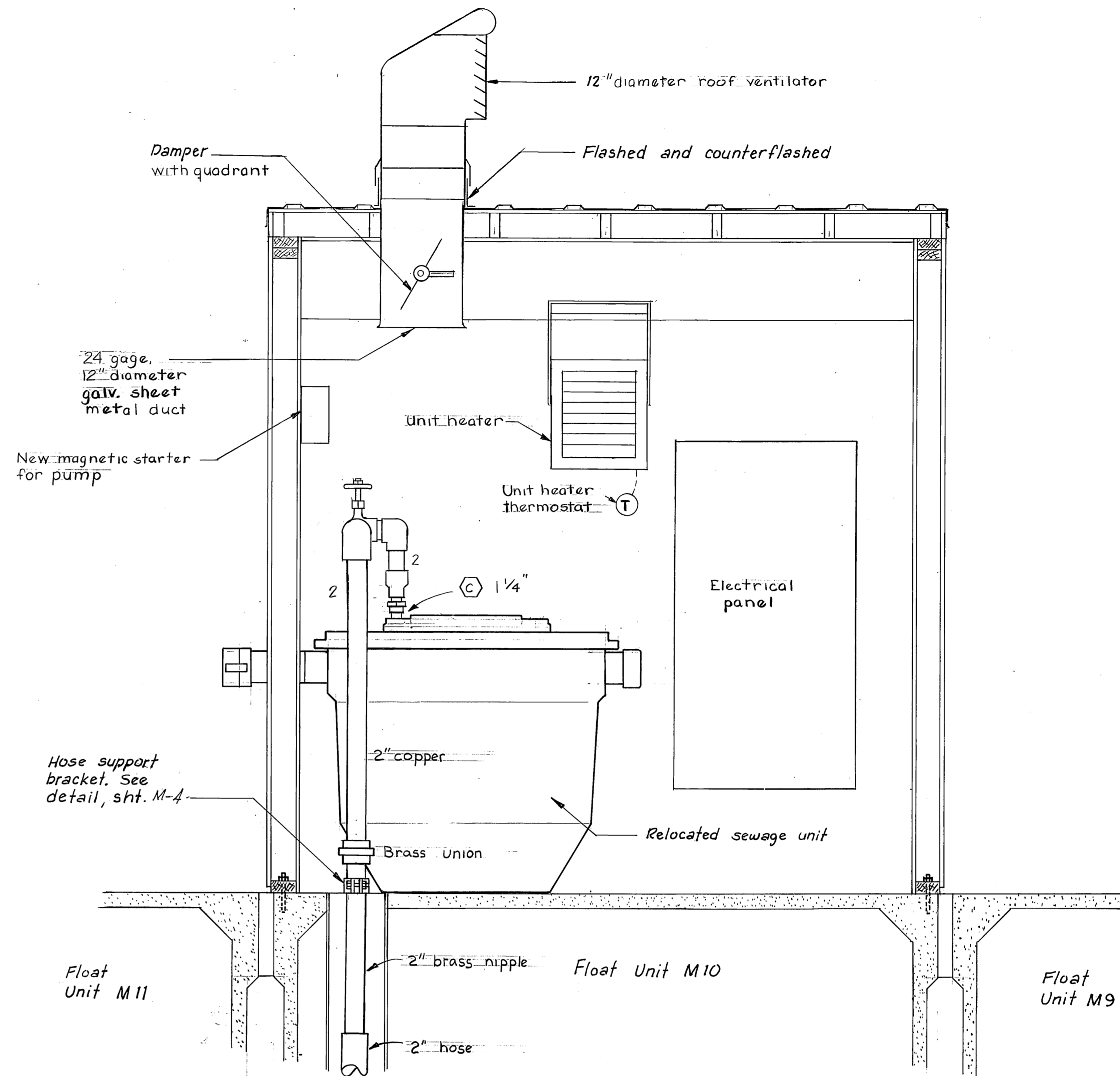
M.H.
10/3/87

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		STATE OF ALASKA	
		DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES	
Auke Bay		Alaska	
MECHANICAL PLAN DETAILS			
DESIGNED	V.A.	CHECKED	V.A.
PROJECT NUMBER	67664, 69016, 69106	DRAWN	V.A.
		DATE	11-86
		SHEET	47 OF 49

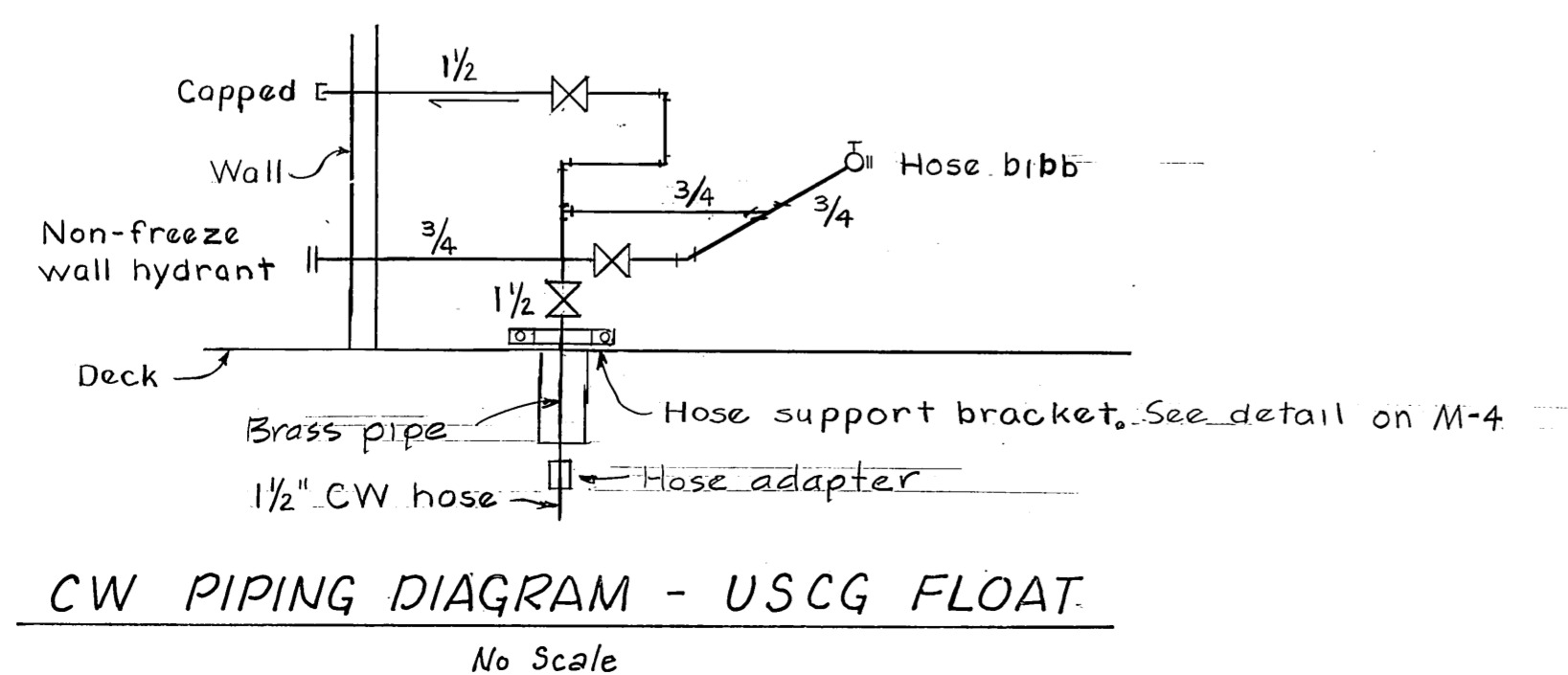
M-2



PLAN - COAST GUARD FLOAT
1" = 1'-0"



SECTION A-A
1" = 1'-0"

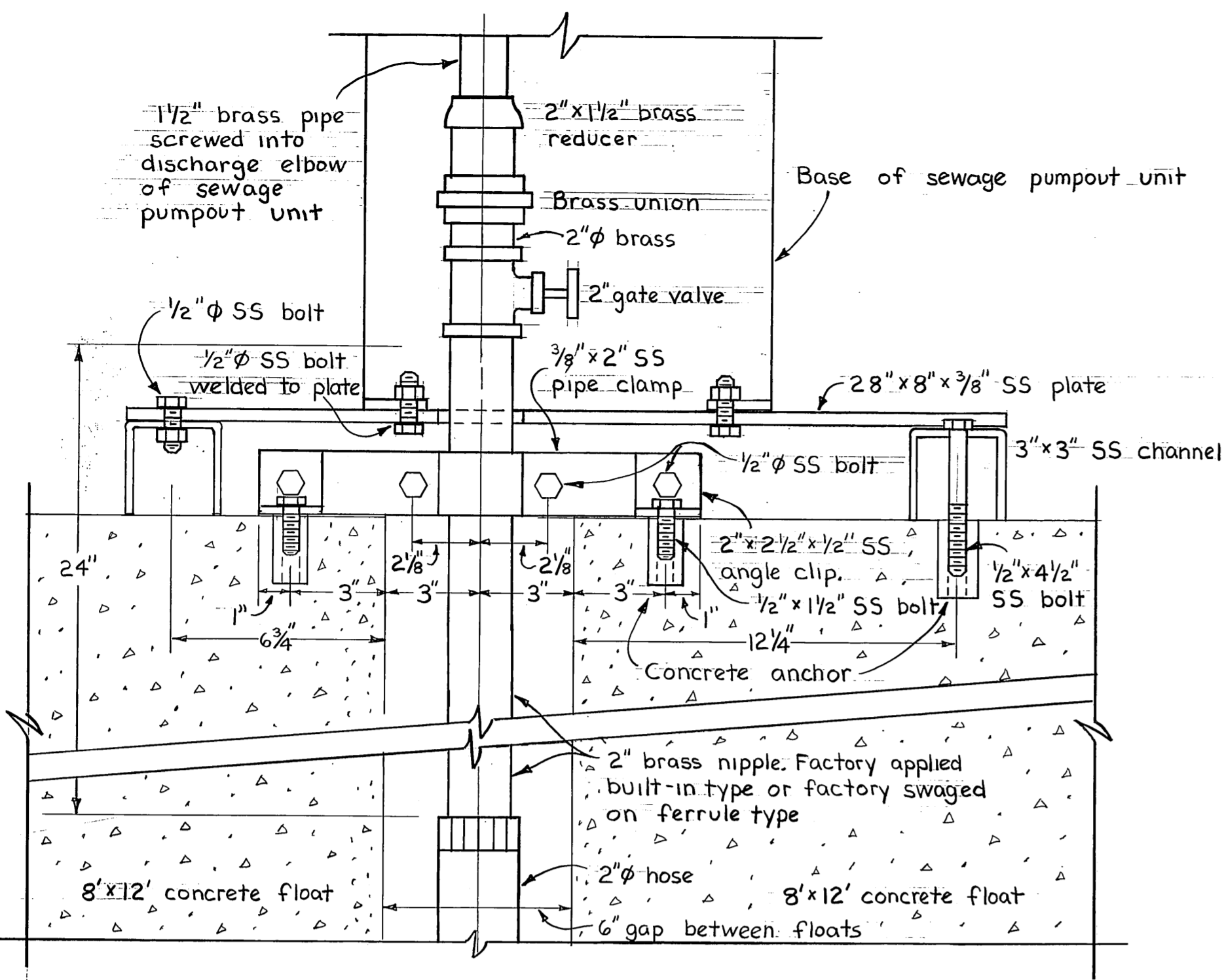


CW PIPING DIAGRAM - USCG FLOAT
No Scale

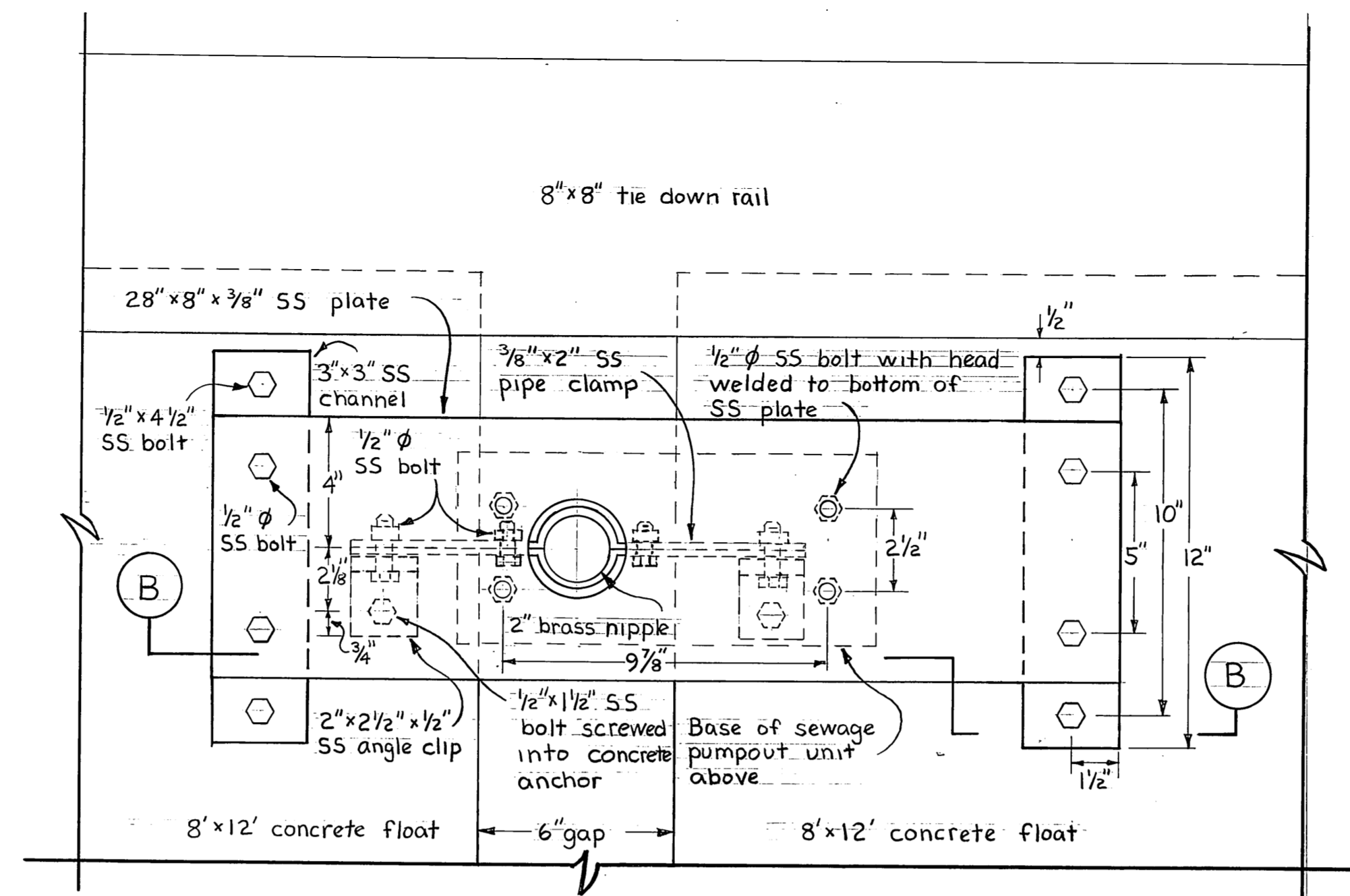
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		Auke Bay	Alaska
MECHANICAL DETAILS			
DESIGNED	V.A.	CHECKED	V.A.
DRAWN	TS	DATE	11-86
PROJECT NUMBER	67664, 69016, 69106	SHEET	48 OF 49

M-3



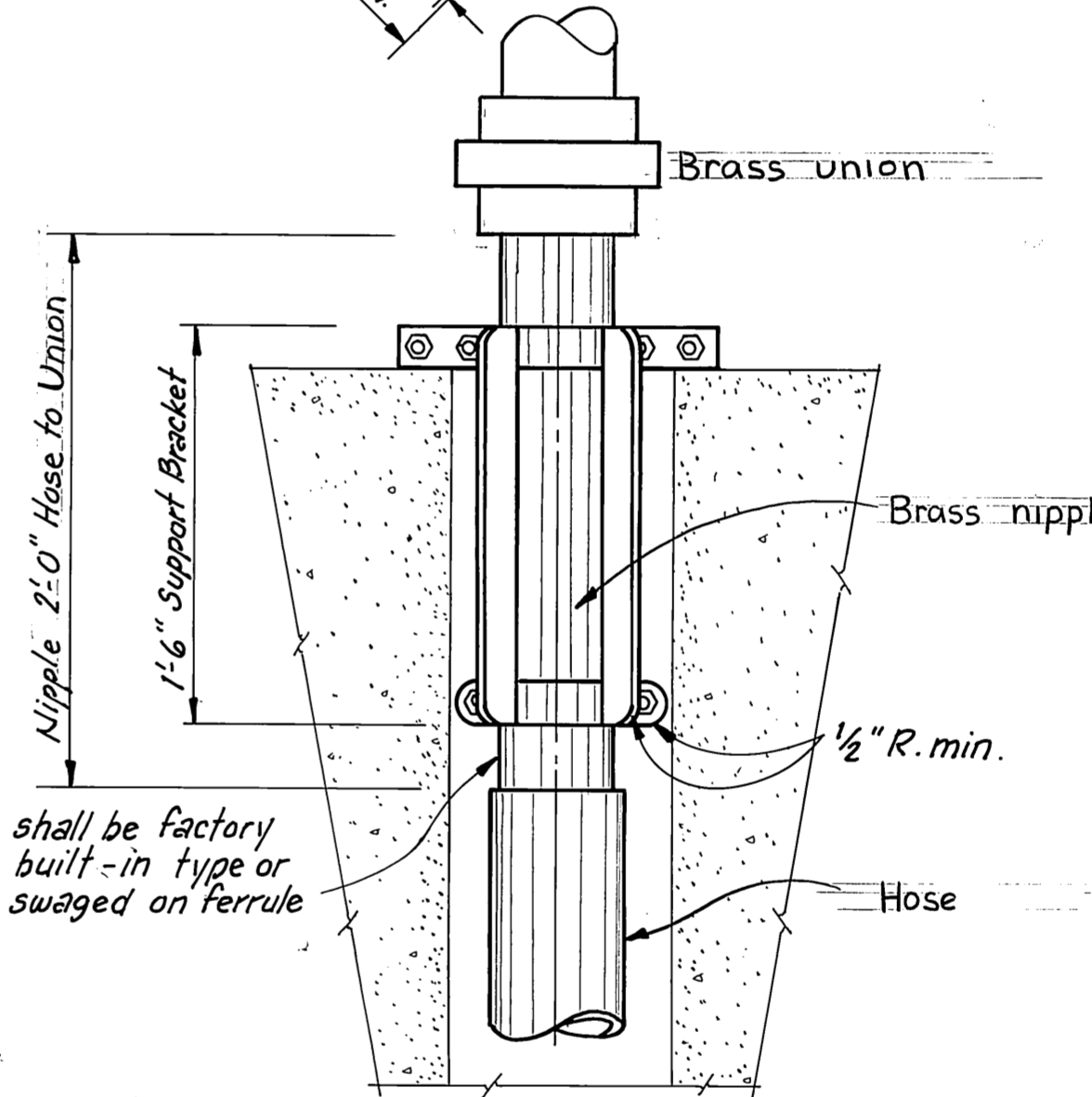
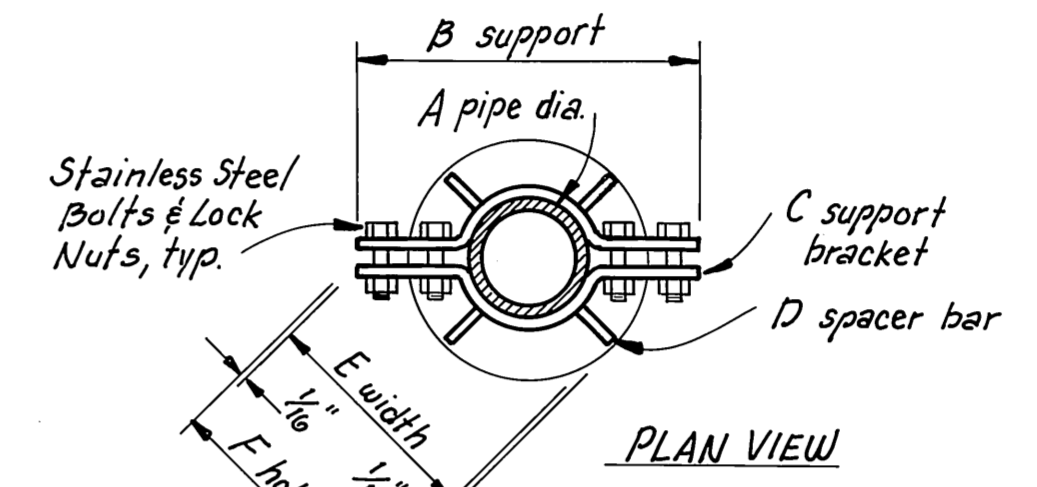
SECTION B-B
3" = 1'-0"



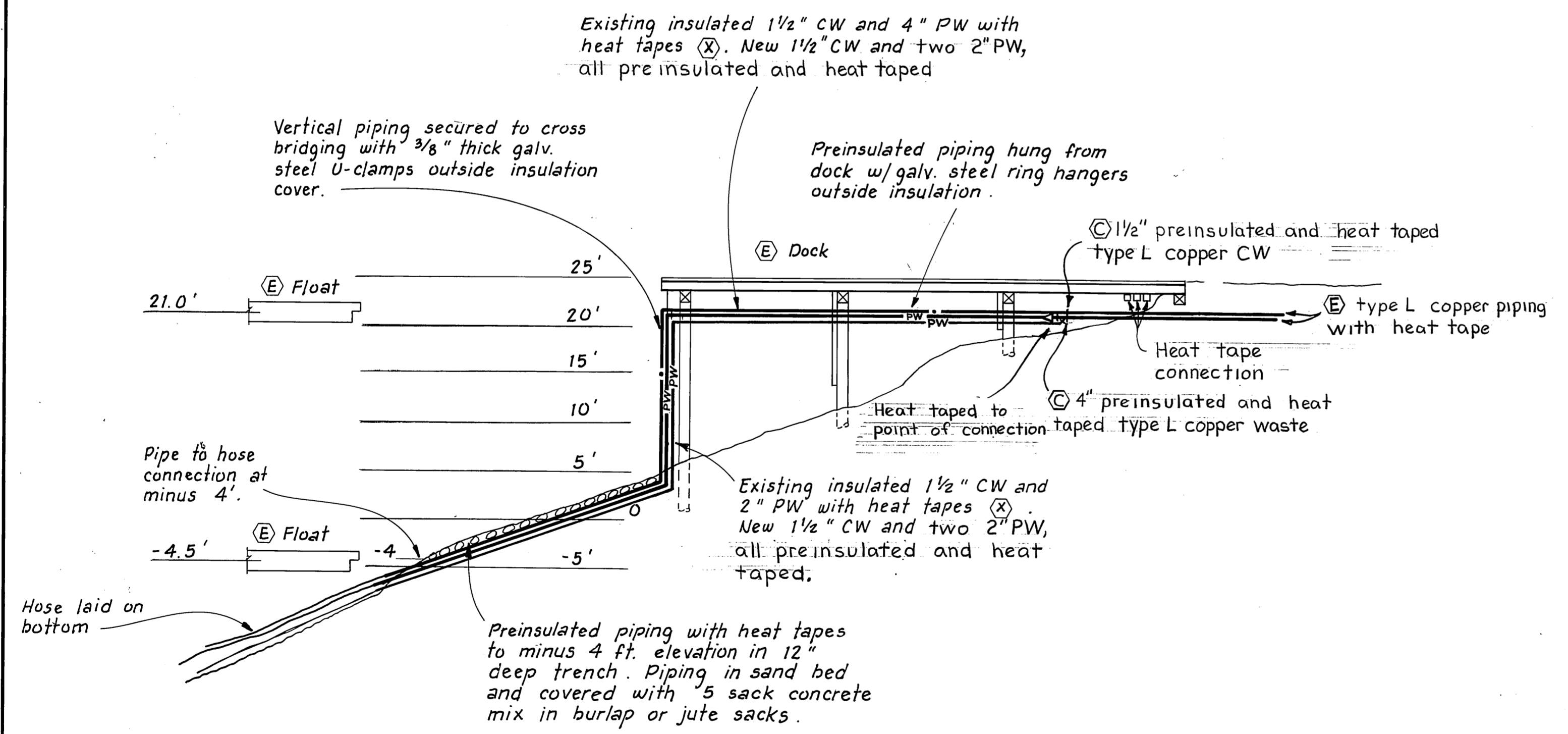
MOUNTING DETAIL PUMPOUT UNIT
3" = 1'-0"

Hose Support Bracket Schedule

No. Req'd.	A pipe		Support Bracket Data				Spacer Bar D	Bracket Width E	Access Hole Dia. F
	Nom.	O.D.	B Top	B Bottom	C Bar	Bolt Size			
1	1 1/2"	1.90"	14"	5 1/2"	3/8" x 2"	1/2" x 2"	3/8" x 1 7/16"	5 7/8"	6"
1	2"	2.38"	15 1/2"	7 1/2"	3/8" x 2"	1/2" x 2"	3/8" x 2 3/16"	7 1/8"	8"



HOSE SUPPORT BRACKET DETAIL
COAST GUARD FLOAT
No Scale

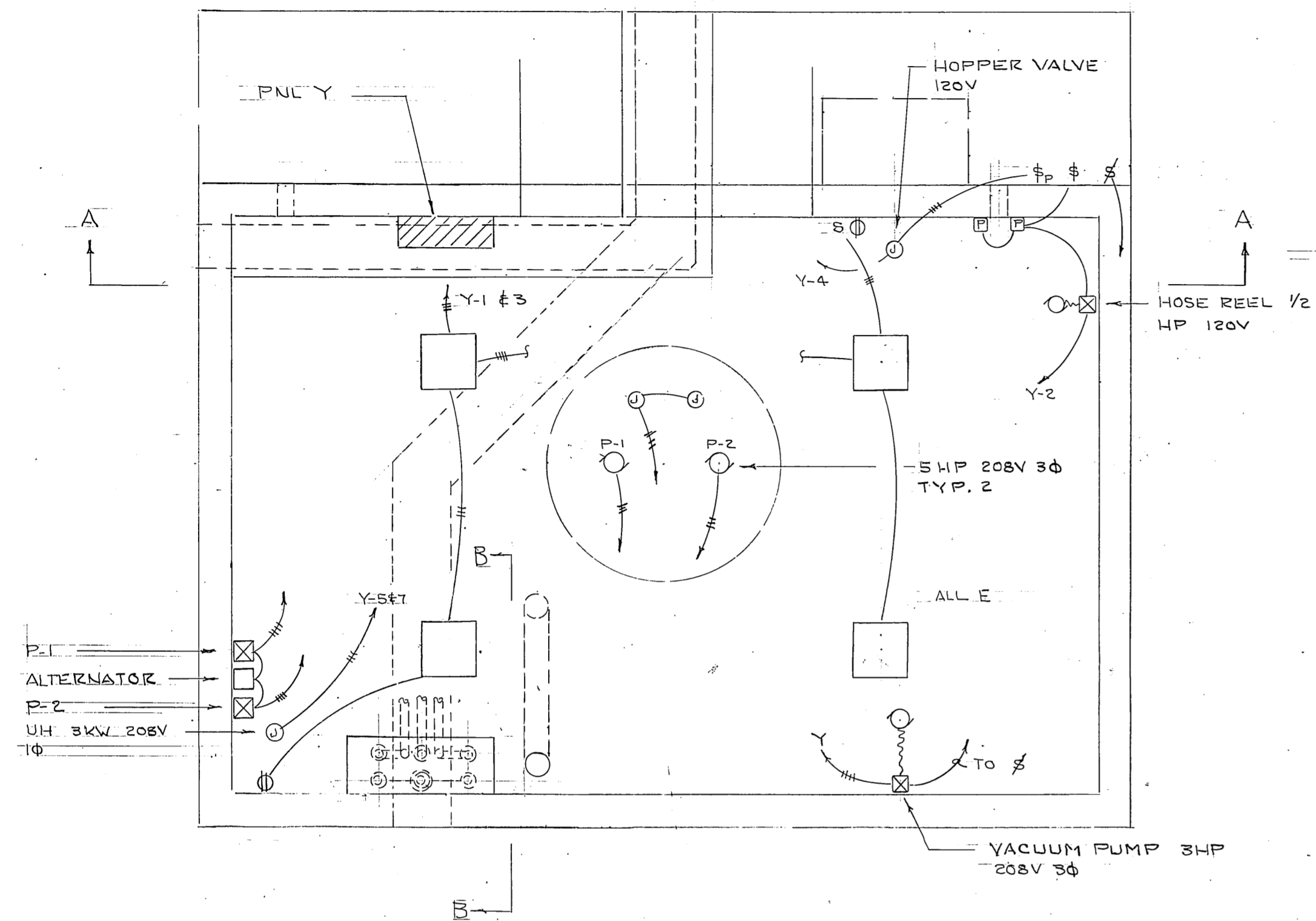


SECTION OF EXISTING DOCK SEWER AND WATER SERVICE
1" = 10'-0"

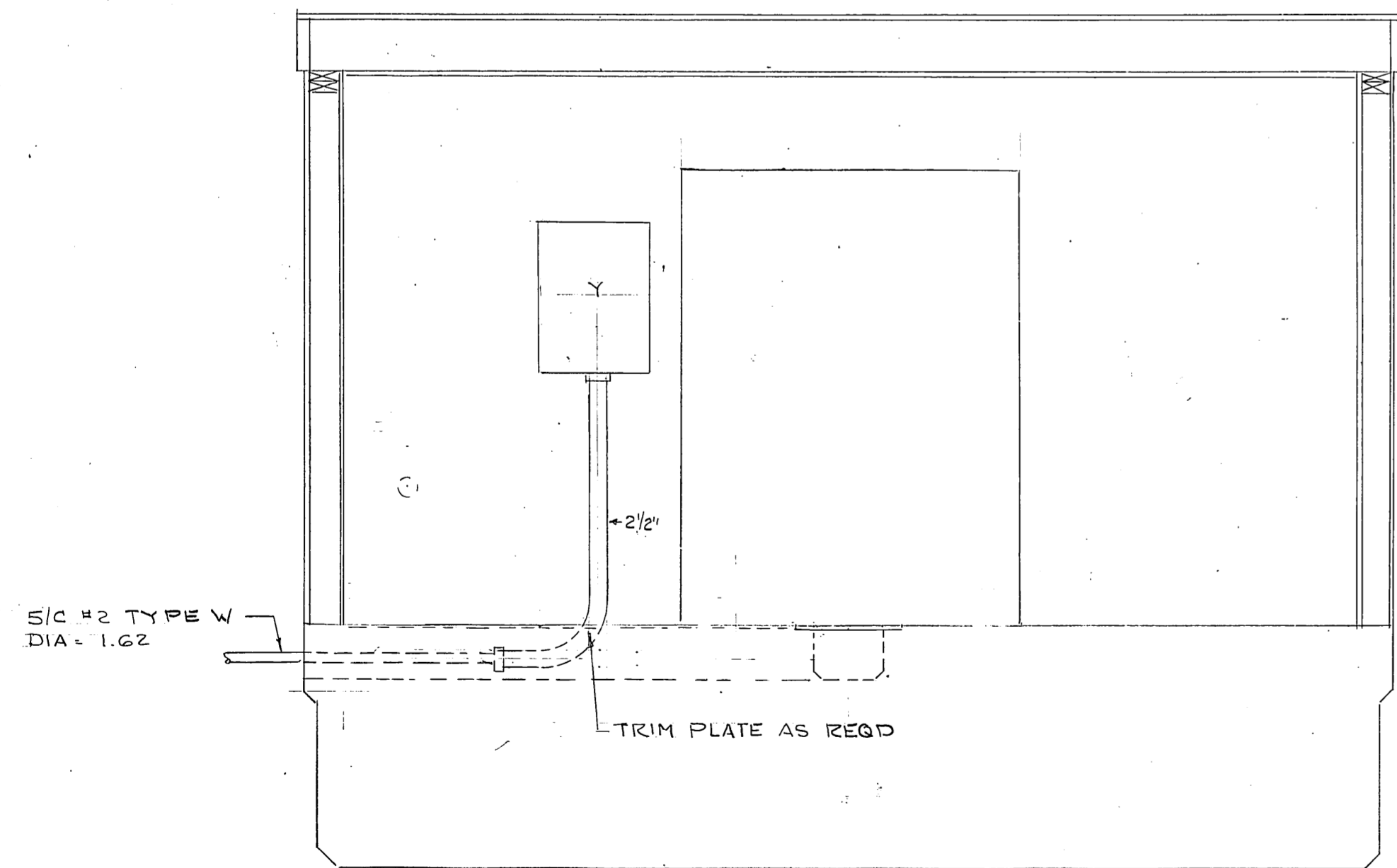
M-4

M.H.
10/3/87

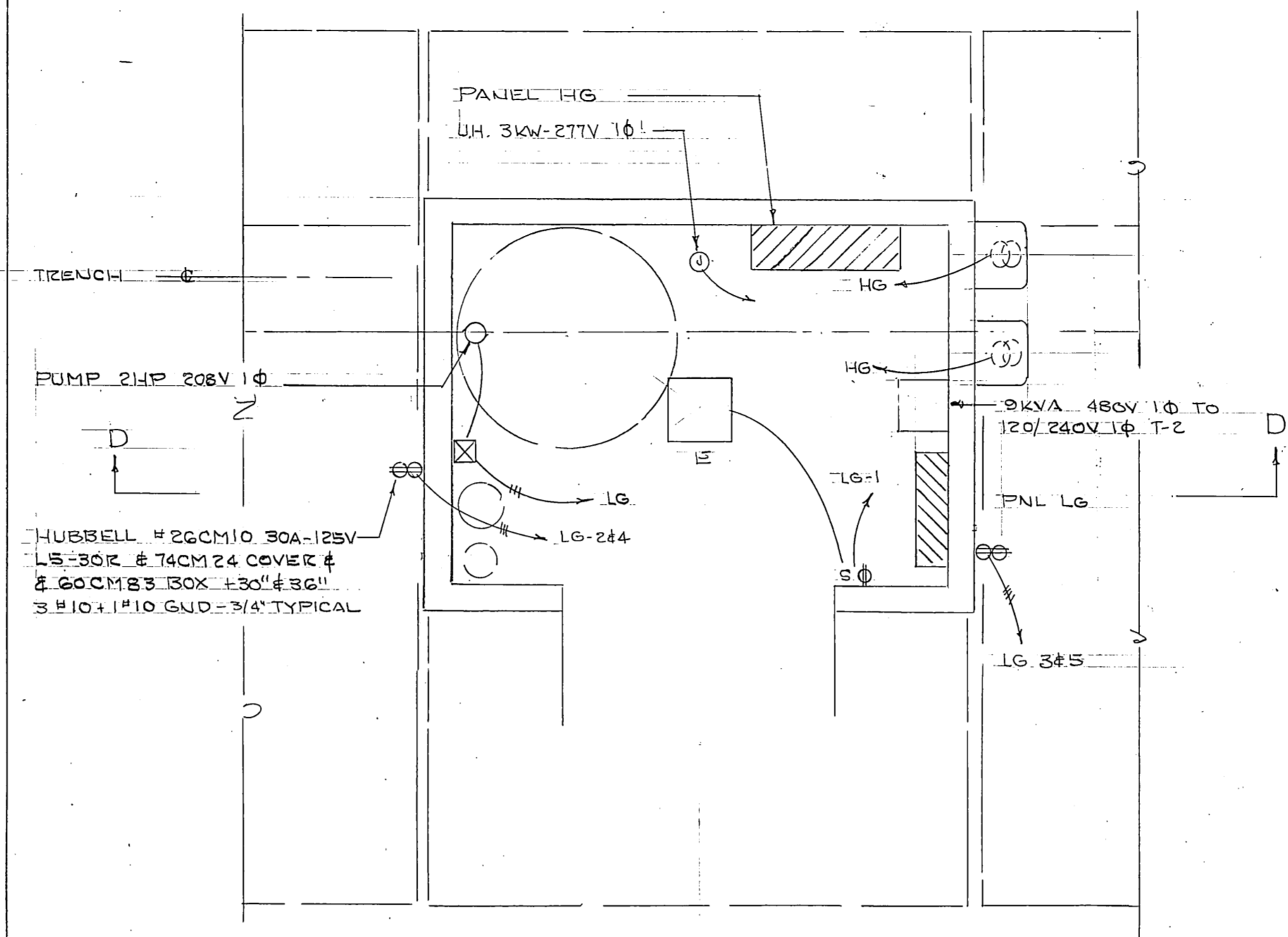
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	STATE OF ALASKA						
	DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES						
Auke Bay		Alaska					
MECHANICAL DETAILS							
DESIGNED	V.A.	CHECKED	V.A.	DRAWN	T.S.	DATE	11-86
PROJECT NUMBER	67664, 69016, 69106			SHEET	49	OF	49



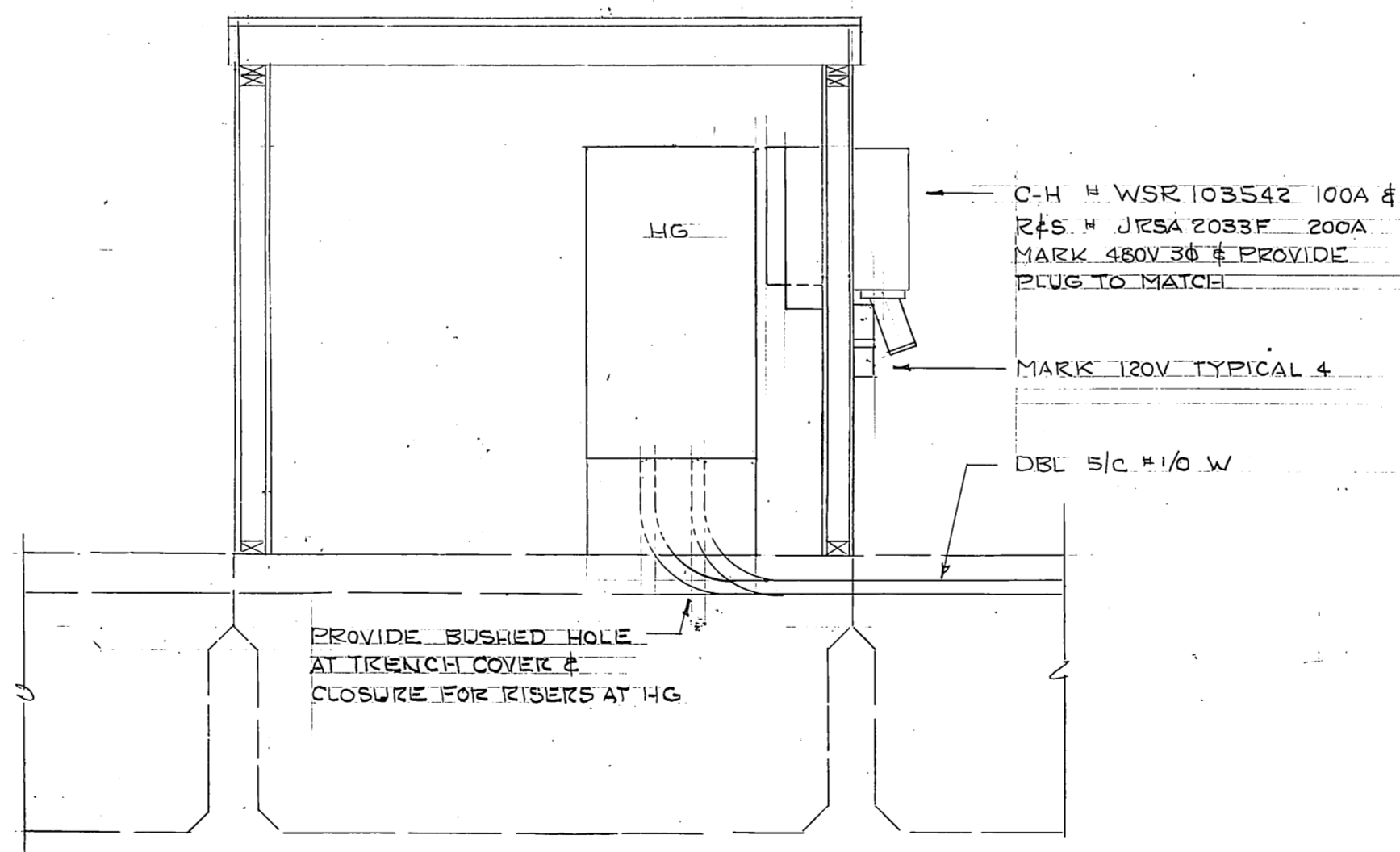
PUMP STATION PLAN
1/2" = 1'-0"



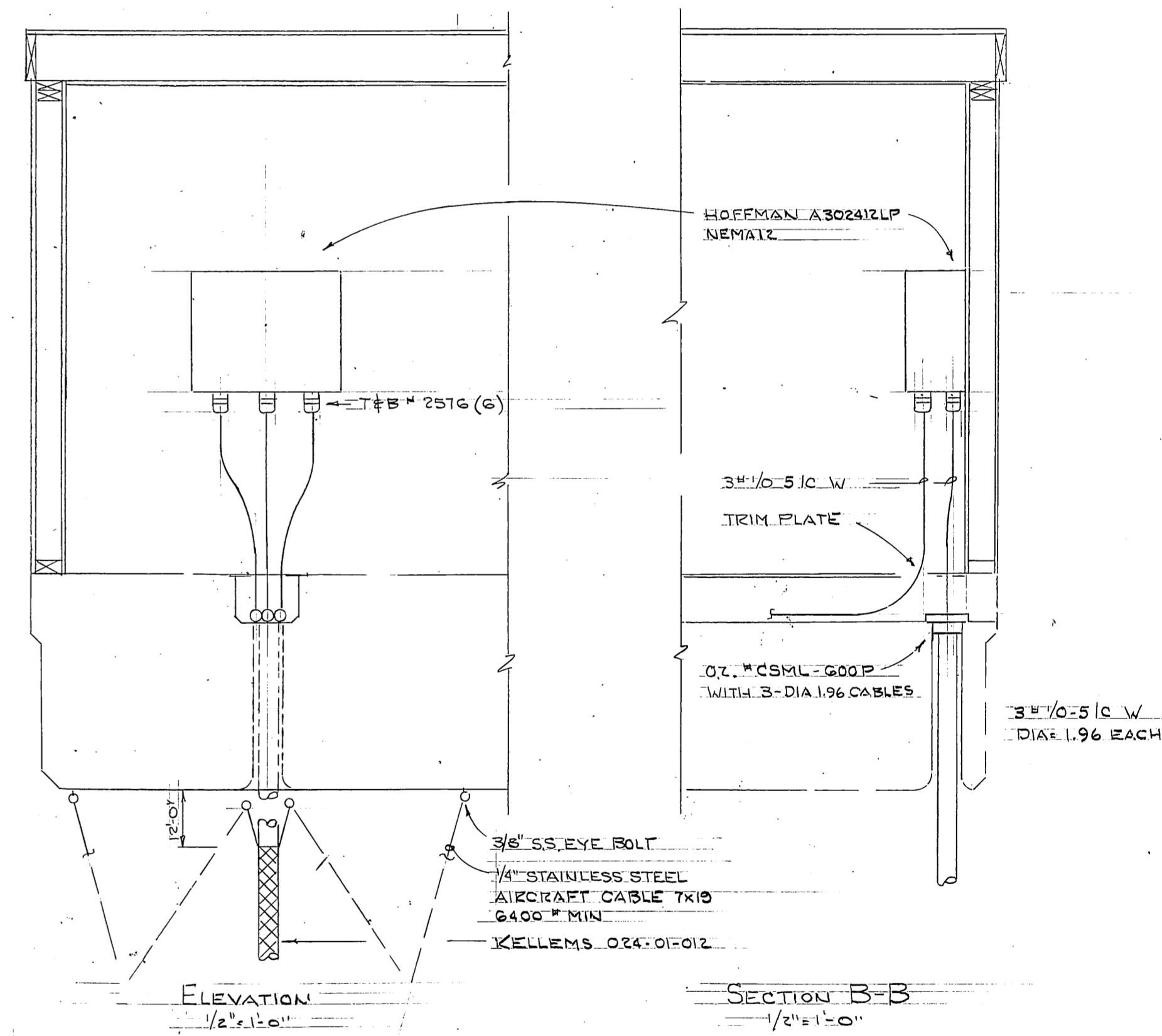
SECTION A-A
1/2" = 1'-0"



COAST GUARD PUMP STATION
1/2" = 1'-0"



SECTION D-D
1/2" = 1'-0"



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SCALE _____	SURVEYED _____	APPROVED _____
DESIGNED _____	DRAWN _____	
CHECKED _____	DATE _____	
PROJECT NUMBER _____	SHEET _____ OF _____	