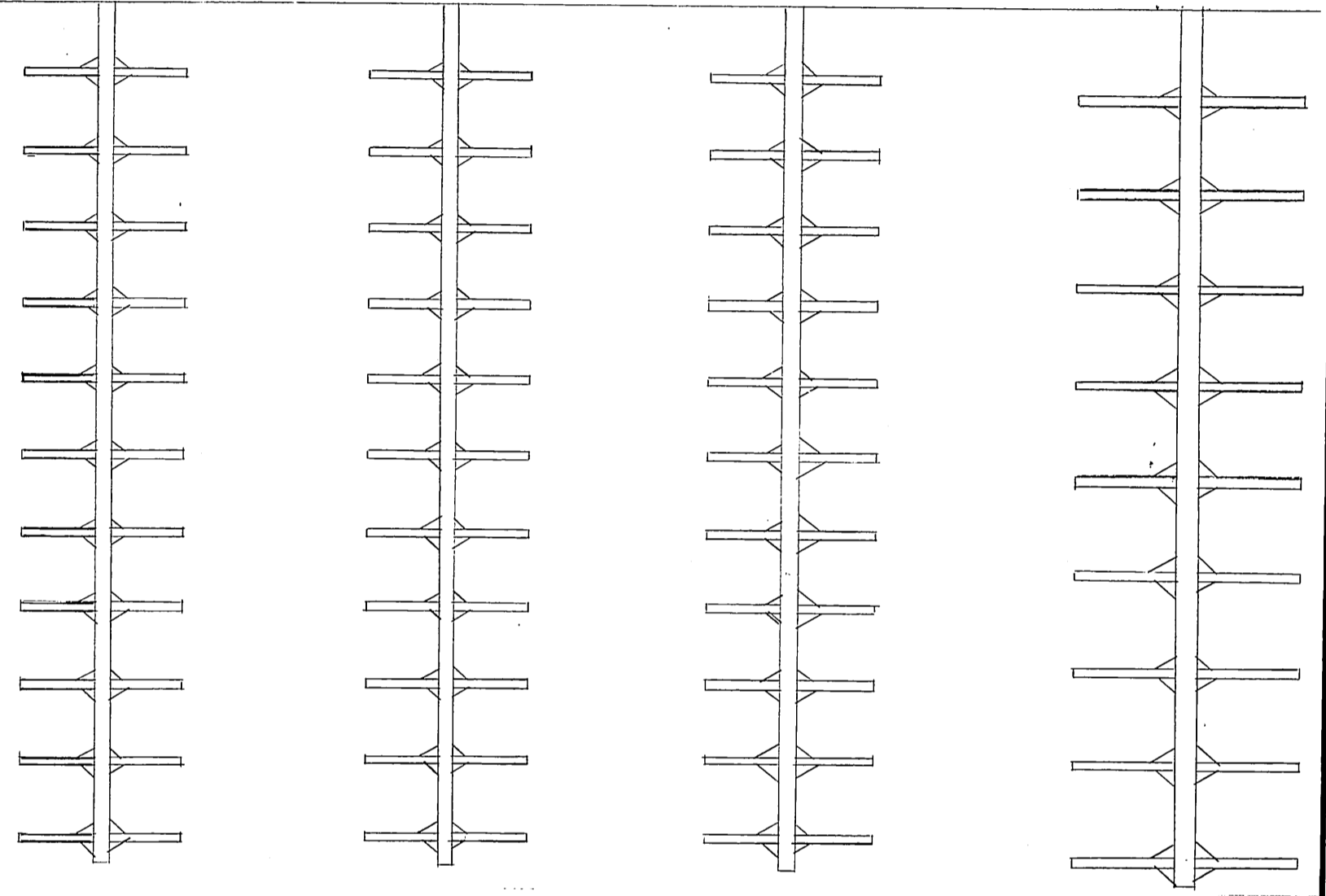


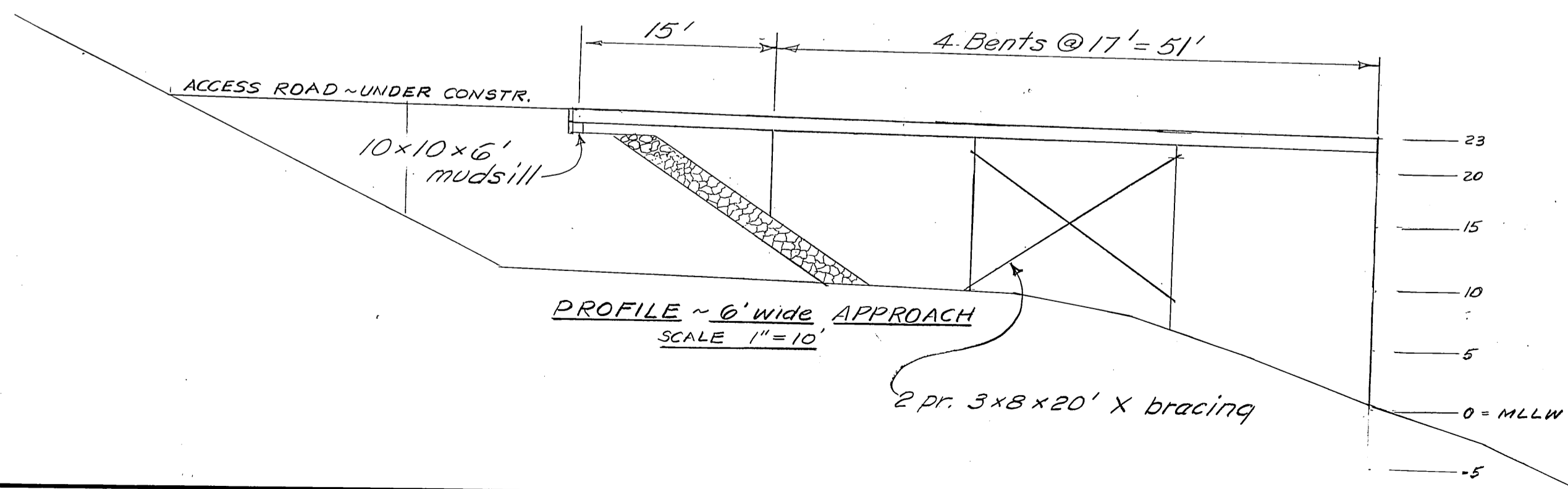
Provide & install 3'x24' stalls  
as shown in original contract  
drawings ~ both sides float.



**PROJECT LAYOUT**  
SCALE 1" = 50'

**NOTES**

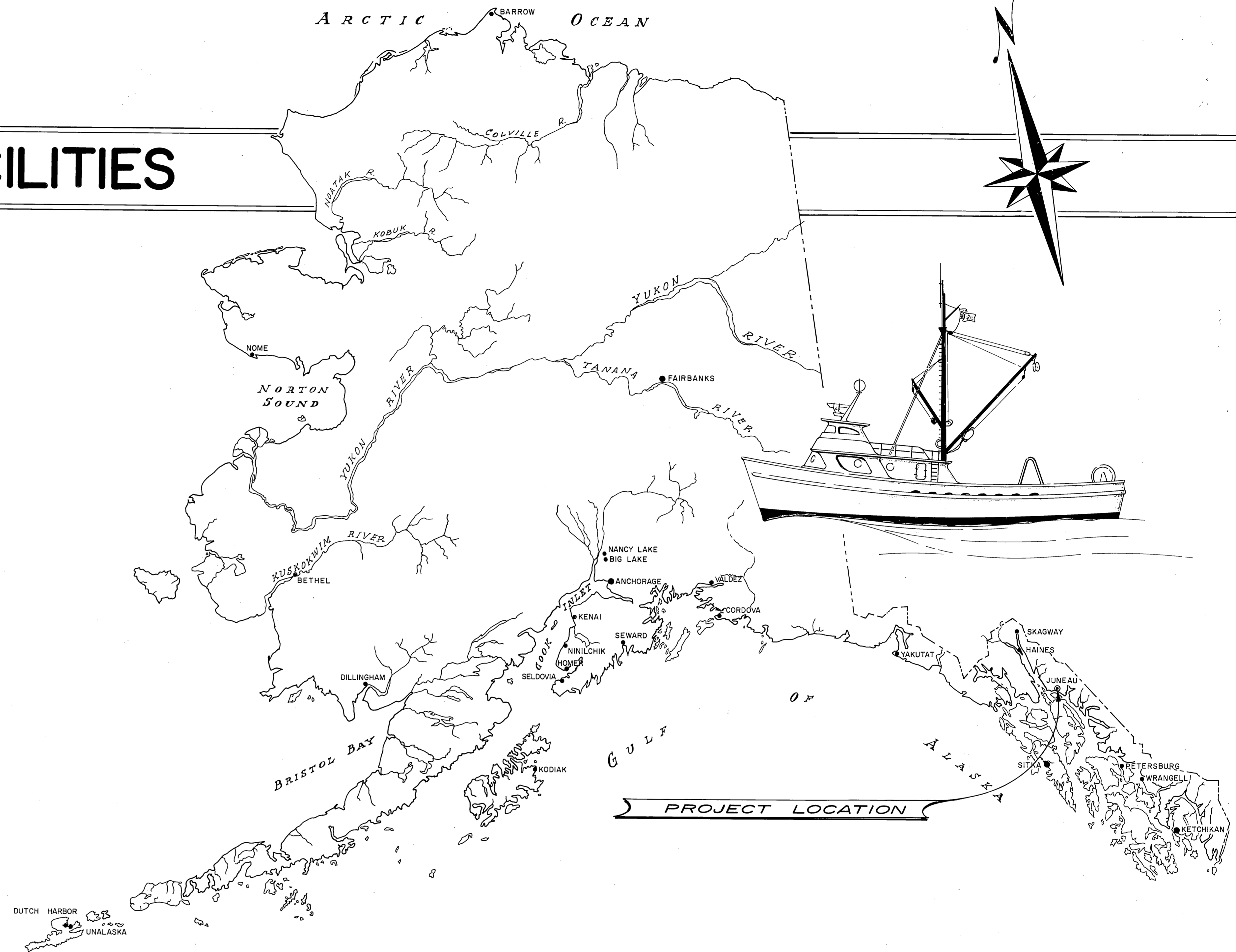
All mat'ls, fastenings, dimensions, etc.  
shall conform to details shown on the  
contract drawings, except as noted  
this sheet.



**As Constructed** 10-15-74 *ES*

# JUNEAU AURORA HARBOR FACILITIES

PROJECT NO. 3-74180




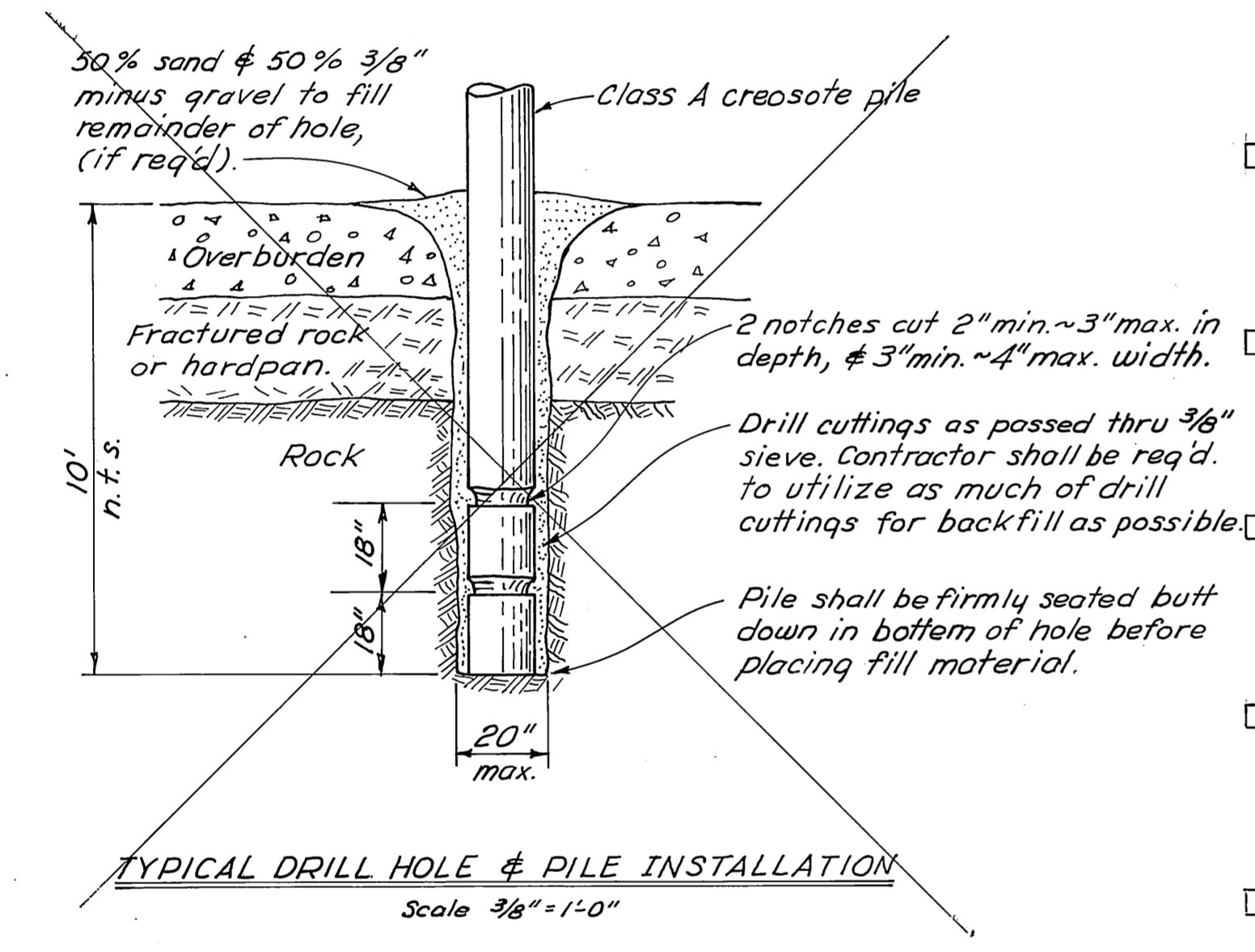
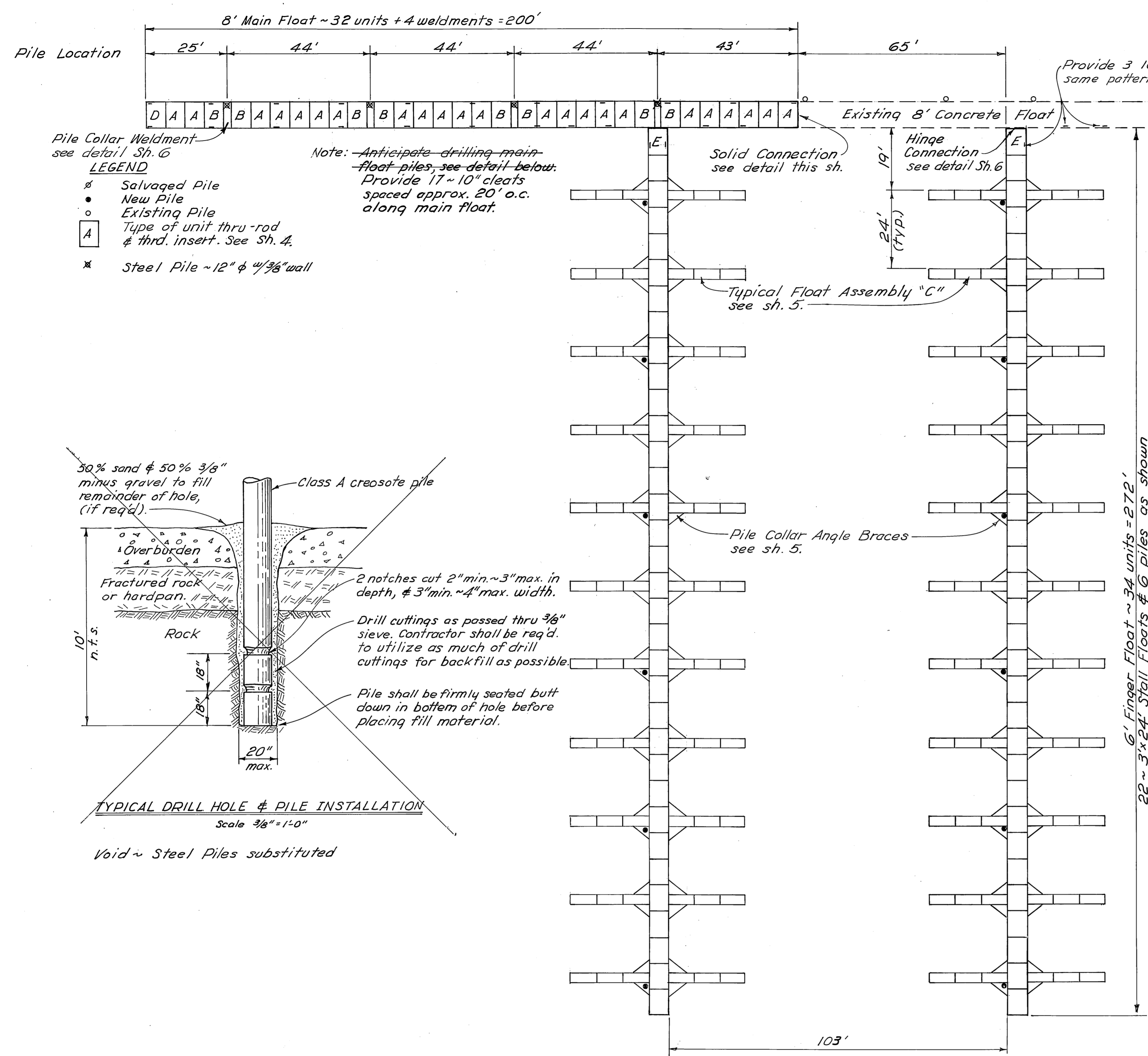
**WORK SUMMARY**  
 Items of work include: Pulling and re-driving 9 float piles, furnishing and installing 27 float piles (1632 L.F.), relocating and adding a new 372 sq. ft. loading float to the existing 12 stall seaplane float, furnish & install 8032 sq. ft. of concrete floats, construction of 1032 sq. ft. of 12' wide timber approach and 612 sq. ft. of 6' wide timber approach, furnish & install 3 ~ 6'x50' steel gangways.

As Constructed 10-16-74

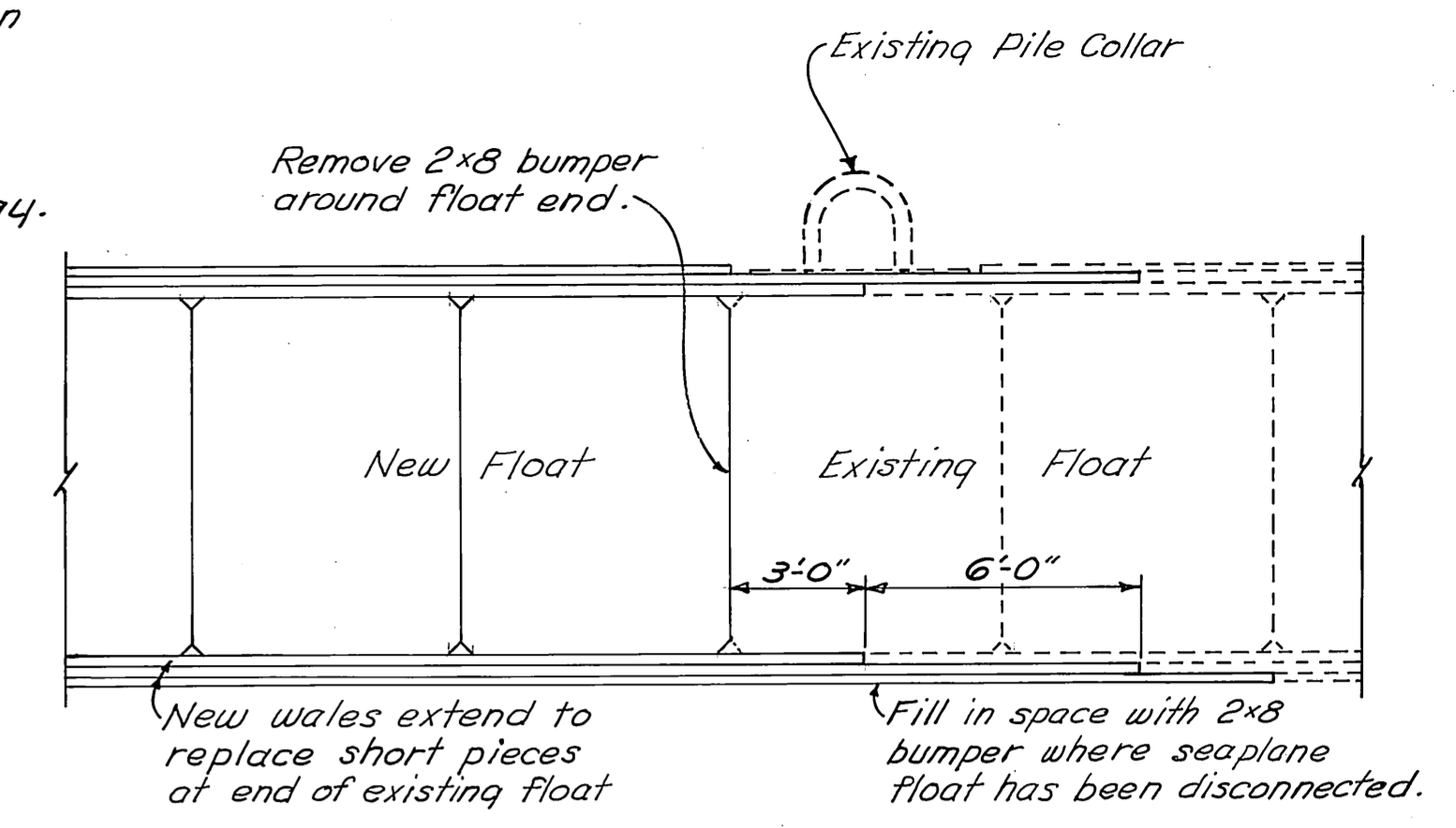
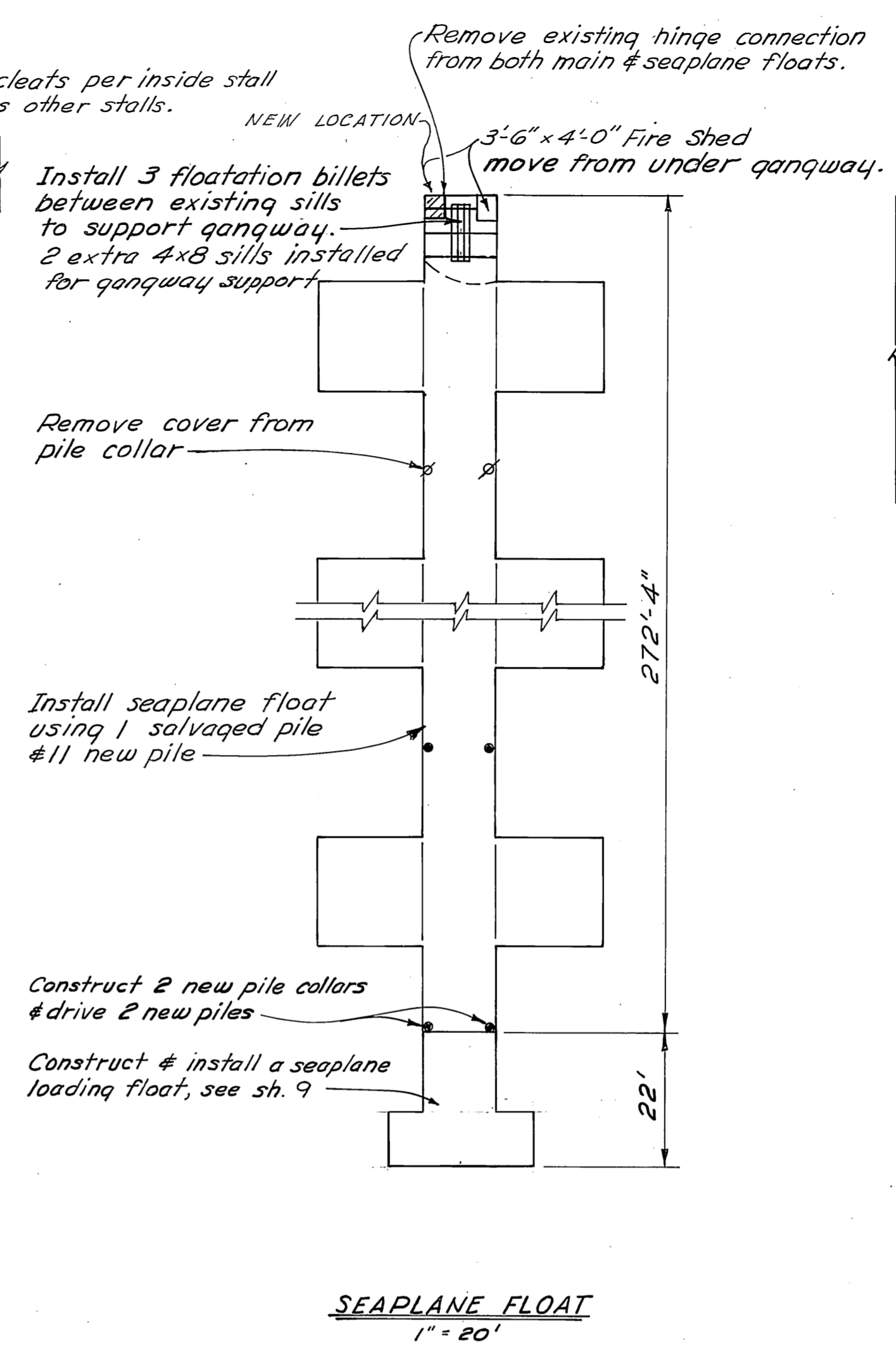
STATE OF ALASKA — DEPARTMENT OF PUBLIC WORKS  
**DIVISION OF WATER & HARBORS**

INDEX TO SHEETS	
1 TITLE	7 12' TIMBER APPROACH
2 SITE PLAN	8 6' TIMBER APPROACH
3 FLOAT LAYOUT	9 SEAPLANE LOADING FLOAT
4 TYPICAL CONCRETE FLOATS	10 STEEL GANGWAY
5 FLOAT DETAILS	11 GANGWAY DETAILS
6 FLOAT DETAILS	

APPROVED  
  
 DIRECTOR  
 DATE - 2/4/74  
 SHEET 1 OF 11



NEW FLOAT LAYOUT  
 1" = 20'



- NOTES:
1. Float piles to be driven butt down to 15' penetration or refusal (See Specs).
  2. Pile cutoff Elev. = +34.0, boat floats; +30 seaplane.
  3. All nominal dimensions on float layout are from face to face of concrete, or face of concrete to center lines.

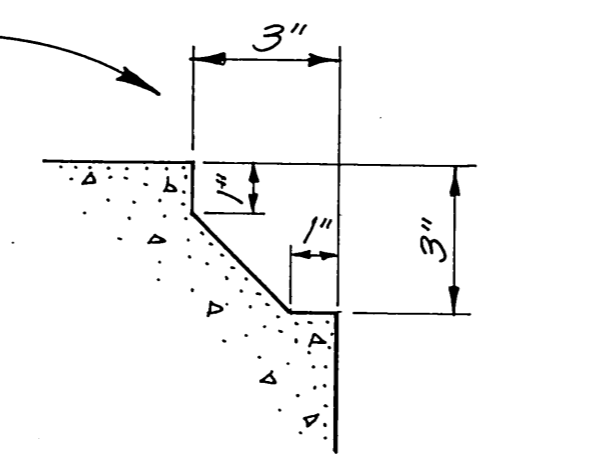
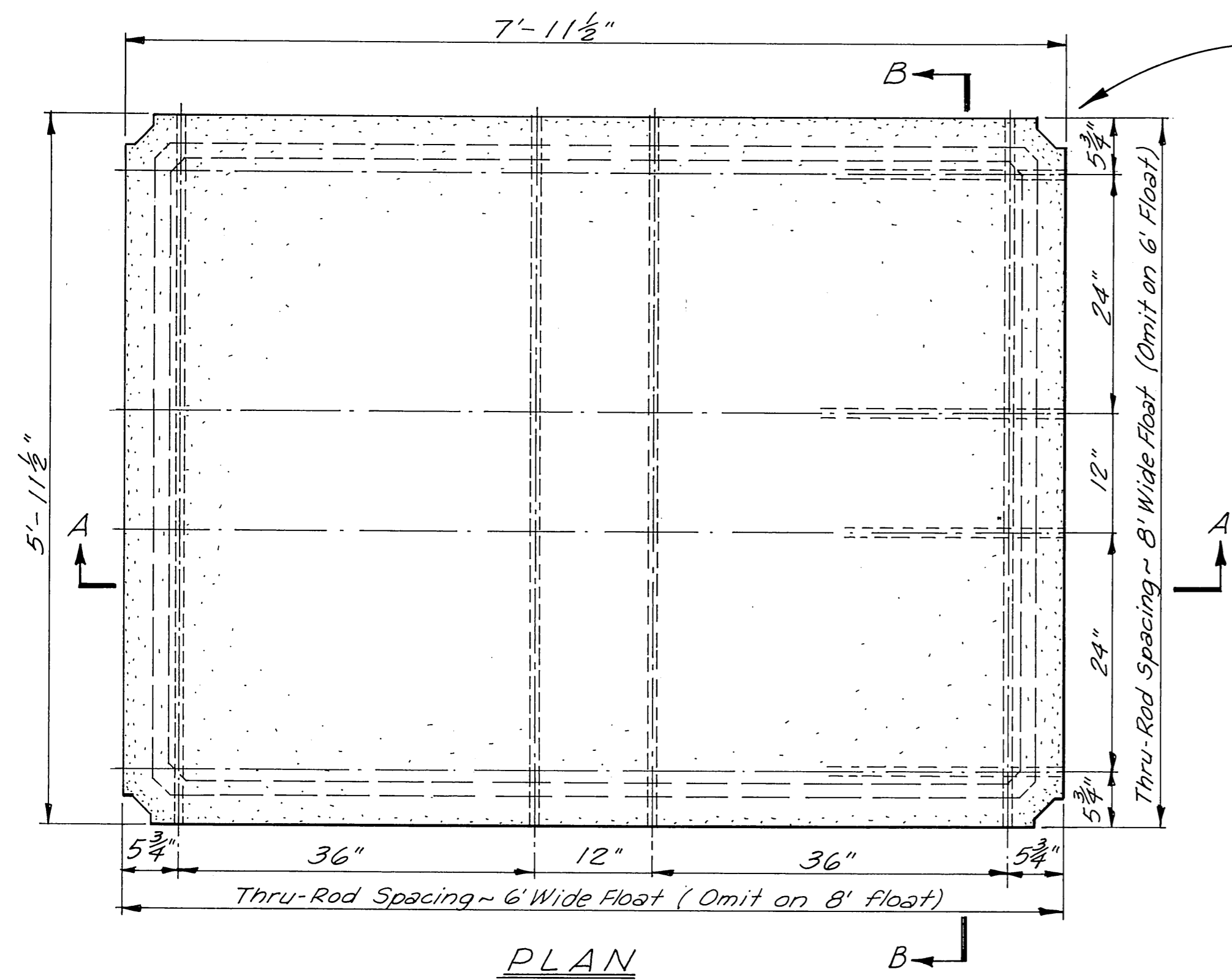
**As Constructed** 10-15-74

DO NOT SCALE THIS DRAWING - USE DIMENSIONS

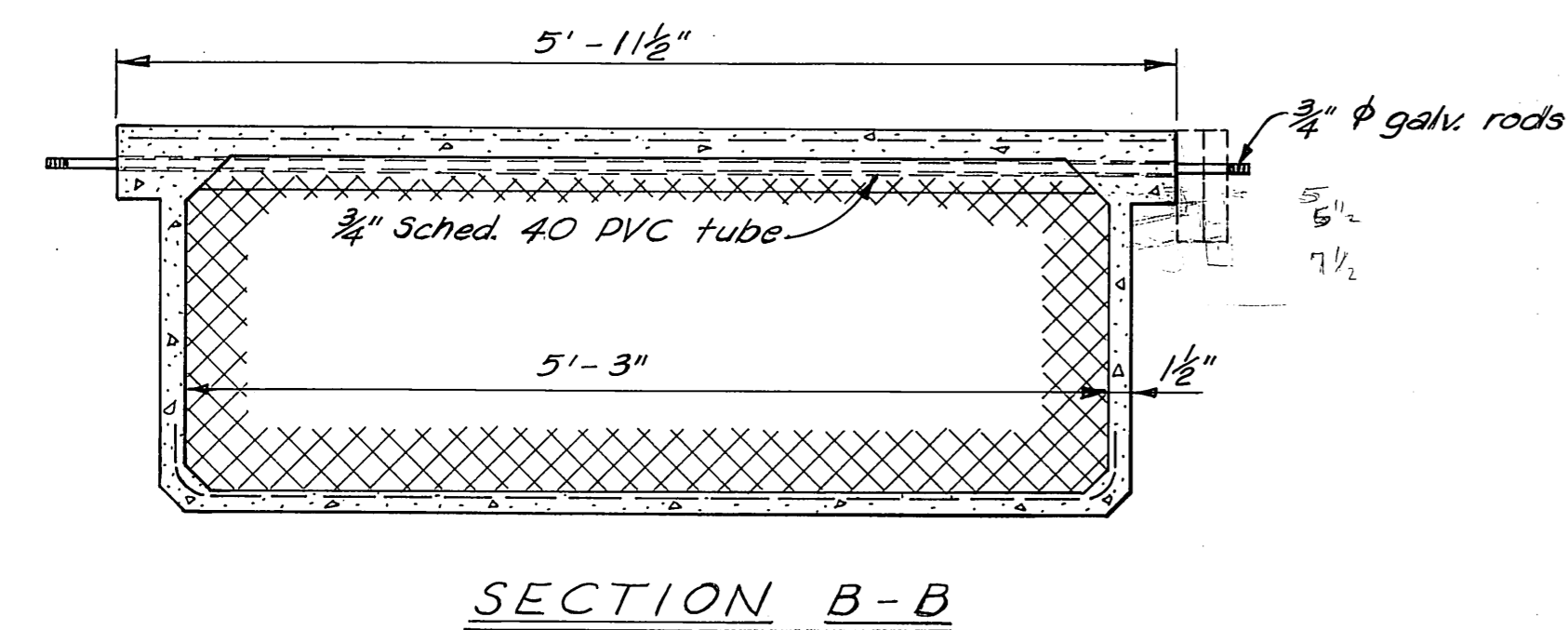
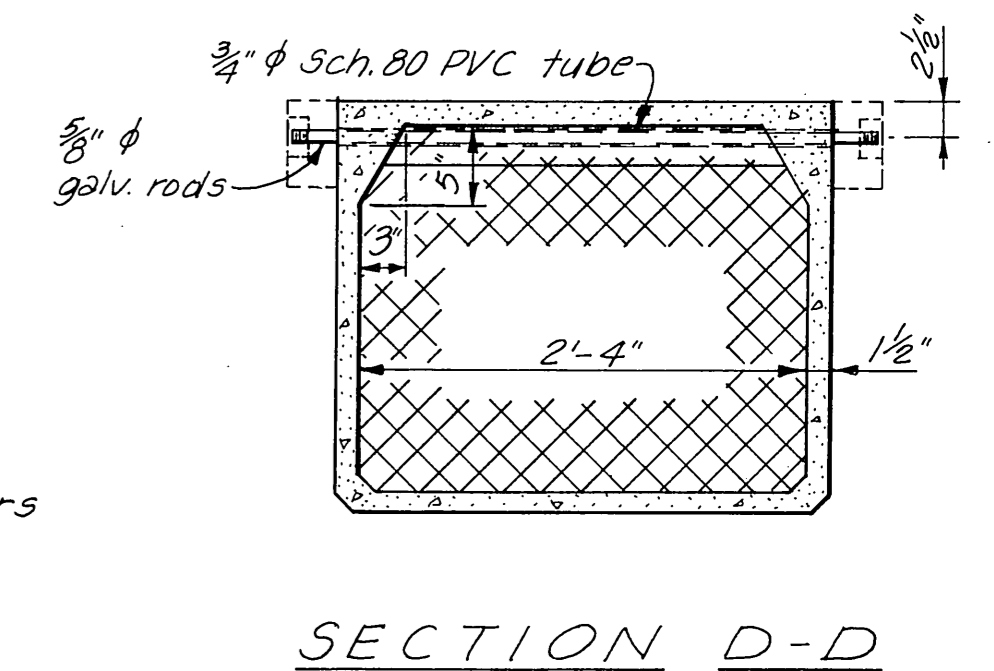
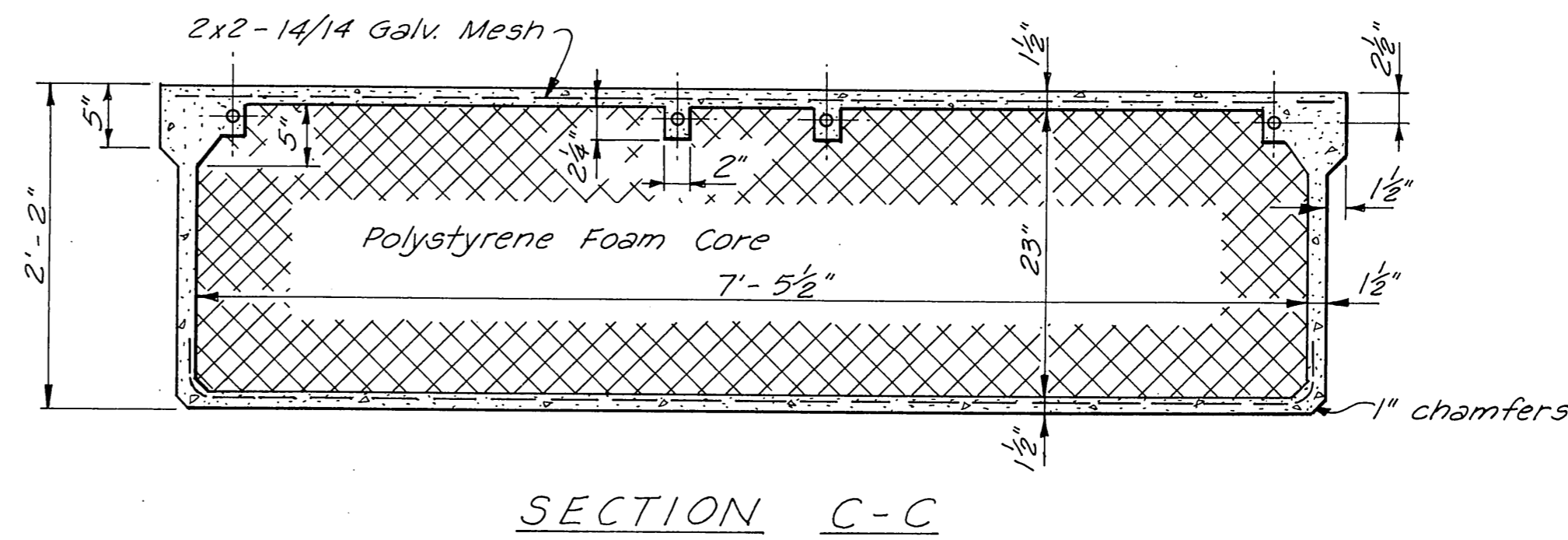
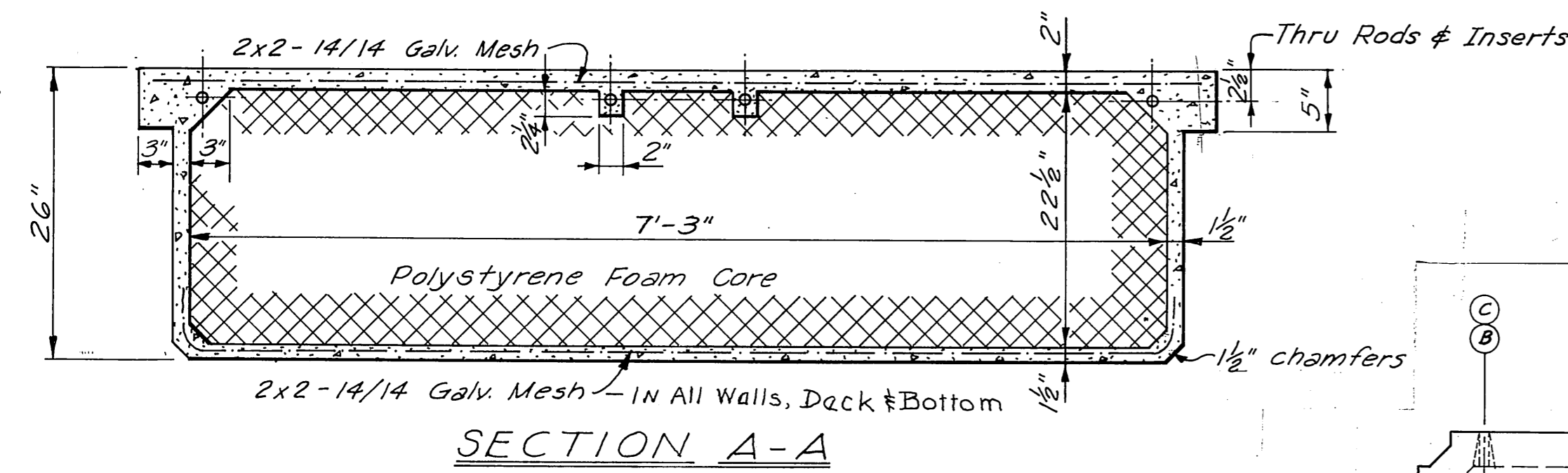
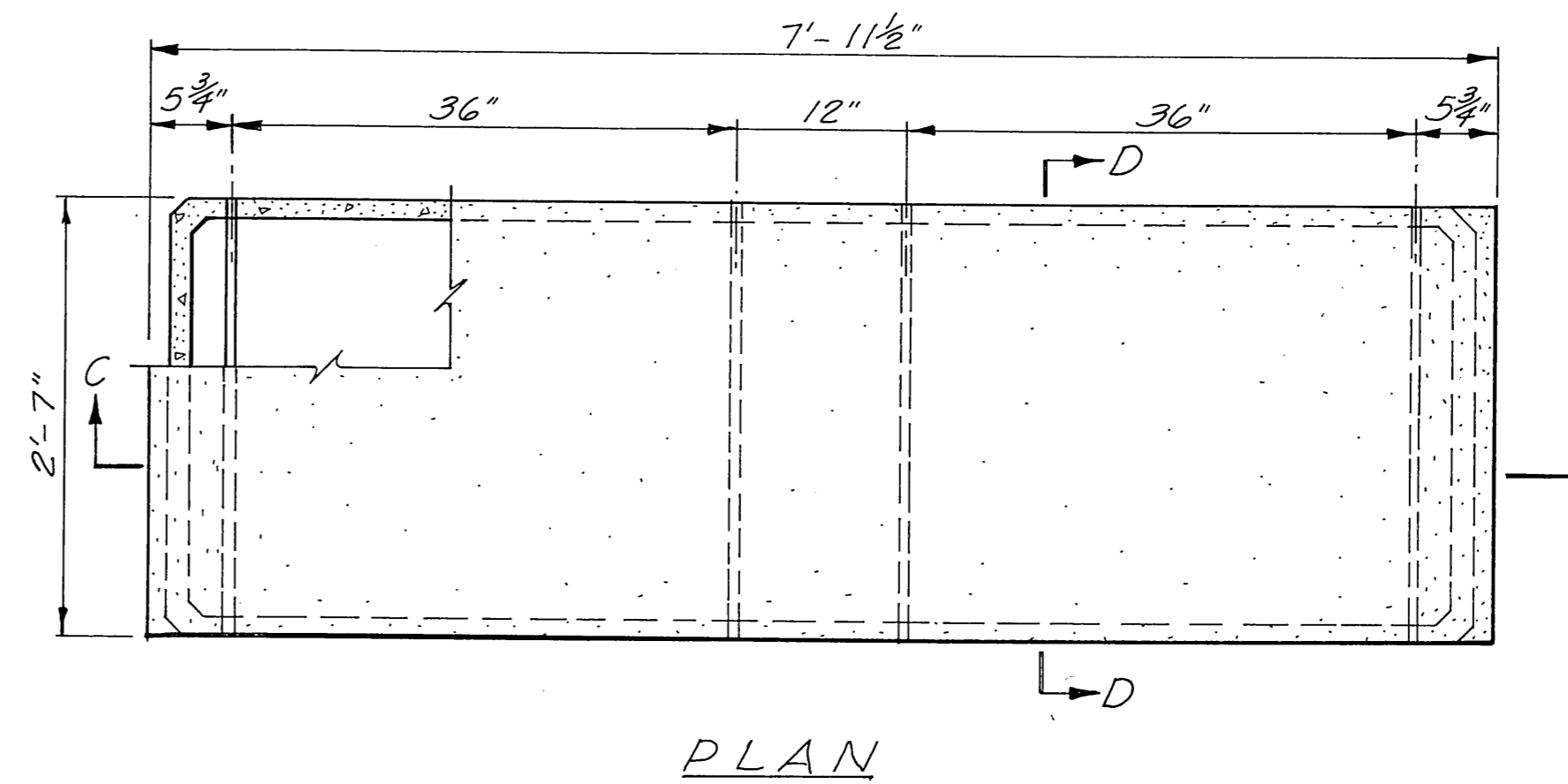
STATE OF ALASKA  
 DEPARTMENT OF PUBLIC WORKS  
 DIVISION OF WATER AND HARBORS

**AURORA HARBOR  
 FLOAT LAYOUT**

SCALE <i>As Shown</i>	SURVEYED	APPROVED
DESIGNED	DRAWN <i>ES</i>	<i>Don Statter</i> DIRECTOR
CHECKED	DATE <i>Nov. 1973</i>	
PROJECT NUMBER <i>3-74180</i>	SHEET <i>3</i> OF <i>11</i>	



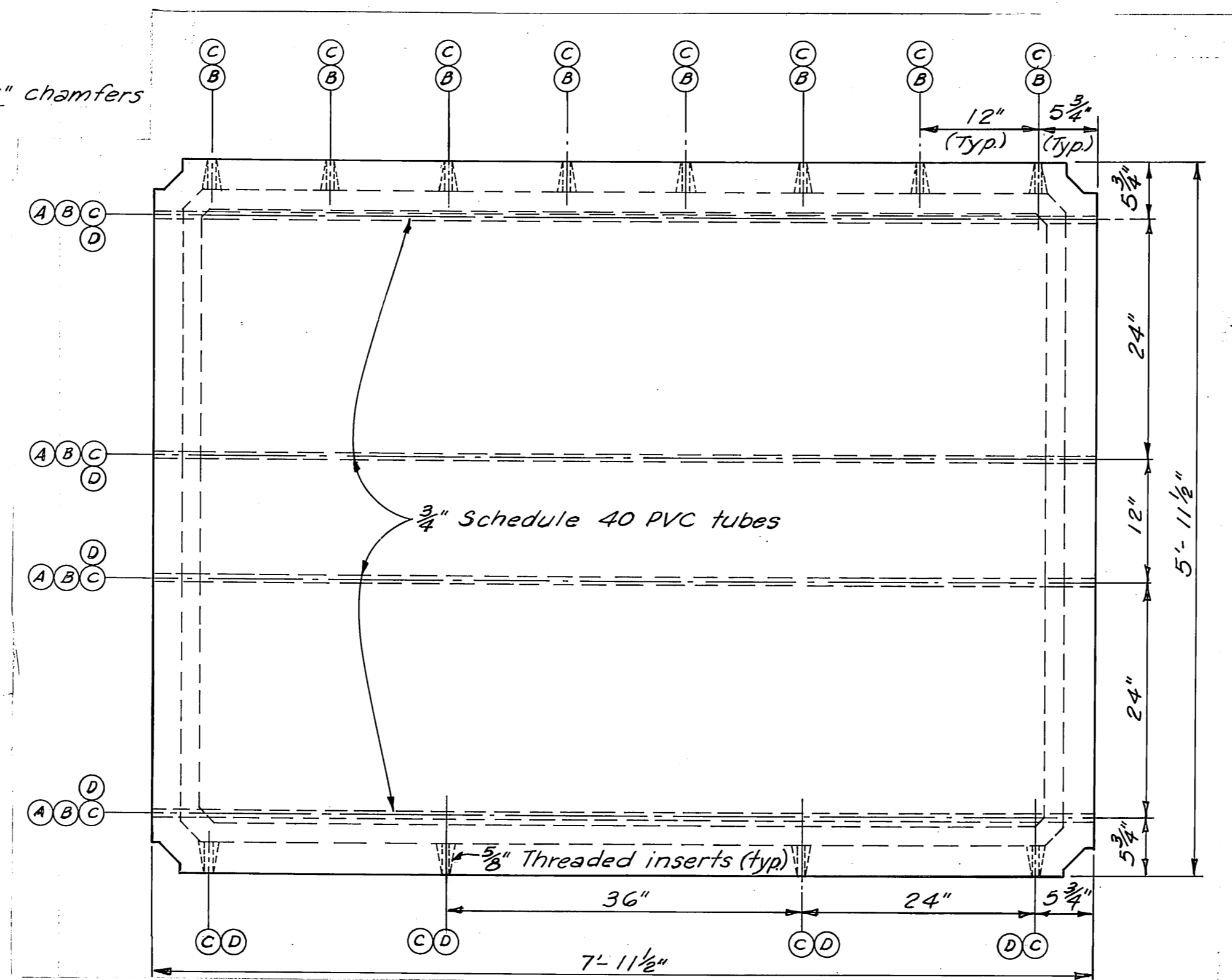
Block out all 4 corners for water lines.



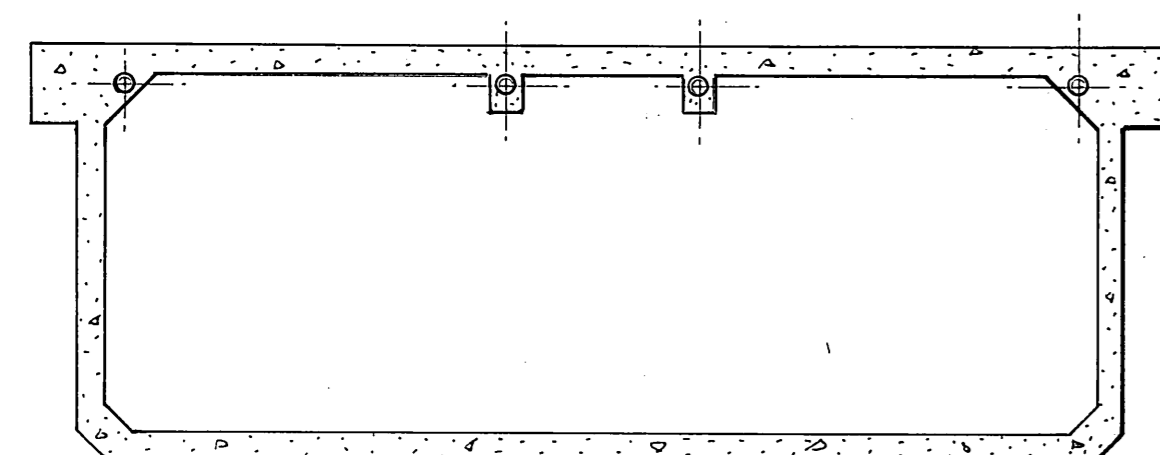
3' x 8' FLOAT DETAILS  
1" = 1'-0"

NOTES:

1. Floats to be cast lightweight concrete 100#/ft.<sup>3</sup> max. with min. compr. strength of 3000 PSI @ 7 days.
2. Inner core to be 1.1#/ft.<sup>3</sup> polystyrene foam per ASTM D-1621-59T.
3. Portland cement shall comply with ASTM C-150 for Type III.
4. Expanded shale shall comply with ASTM C-330.
5. Galv. wire mesh shall comply with ASTM A-185.
6. Circled letters refer to fastening used in various assemblies see layout Sheet 3.



THREADED INSERT LOCATIONS  
(8'-WIDE FLOAT)



ALT. SECTION B-B  
(8'-WIDE FLOAT)

6' x 8' FLOAT  
1" = 1'-0"

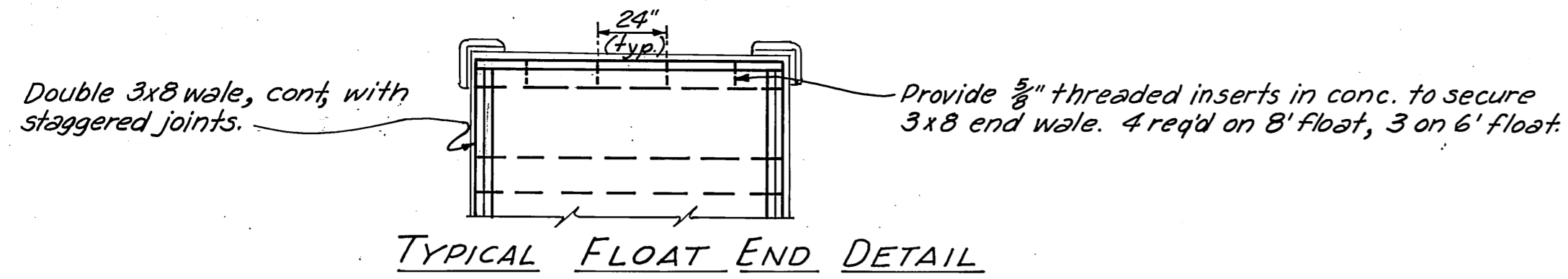
As Constructed 10-15-74

DO NOT SCALE THIS DRAWING USE DIMENSIONS

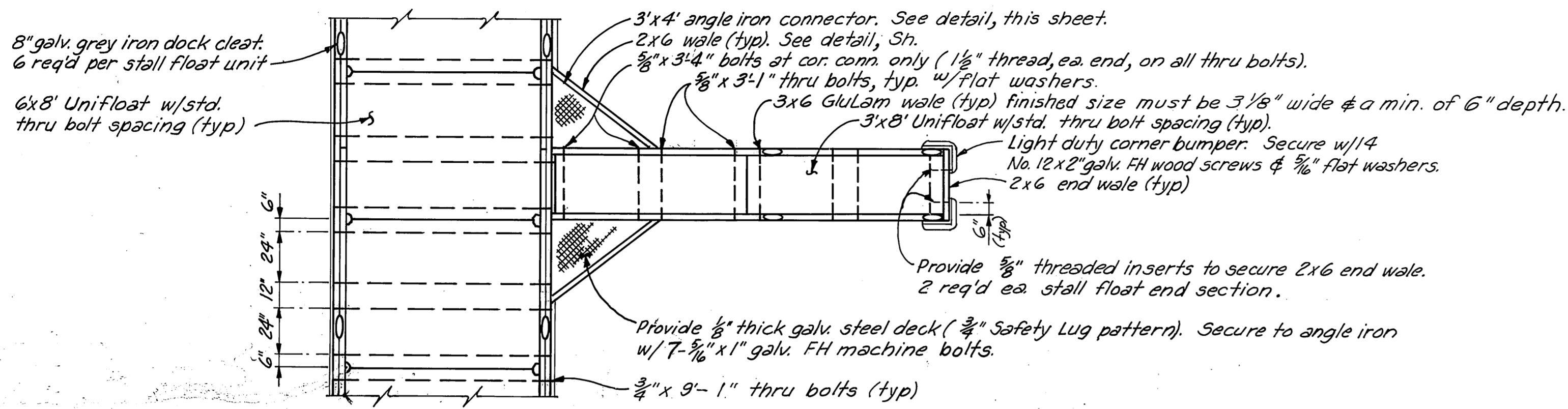
STATE OF ALASKA  
DEPARTMENT OF PUBLIC WORKS  
DIVISION OF WATER AND HARBORS

AURORA HARBOR  
TYPICAL CONCRETE FLOAT UNITS

SCALE 1" = 1'-0"	SURVEYED	APPROVED
DESIGNED	DRAWN	Don Statter
CHECKED	DATE	DIRECTOR
PROJECT NUMBER 3-74180	SHEET 4 OF 11	

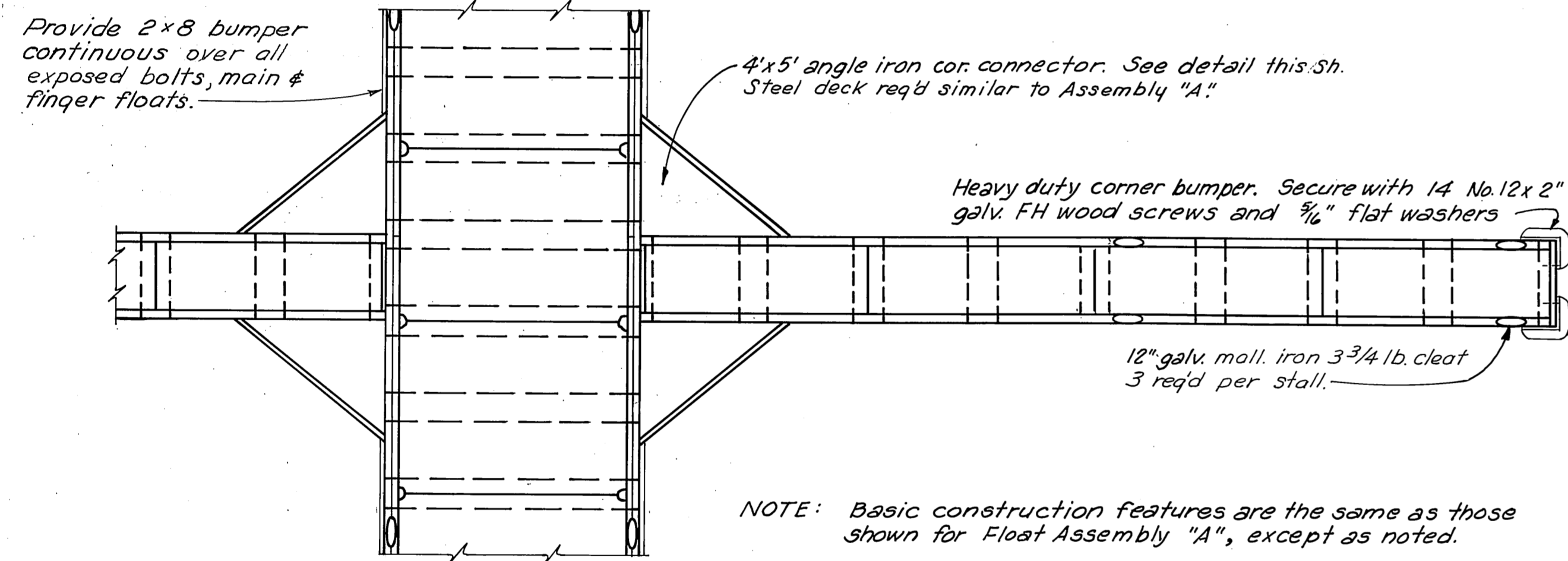


TYPICAL FLOAT END DETAIL



TYPICAL FLOAT ASSEMBLY "A"

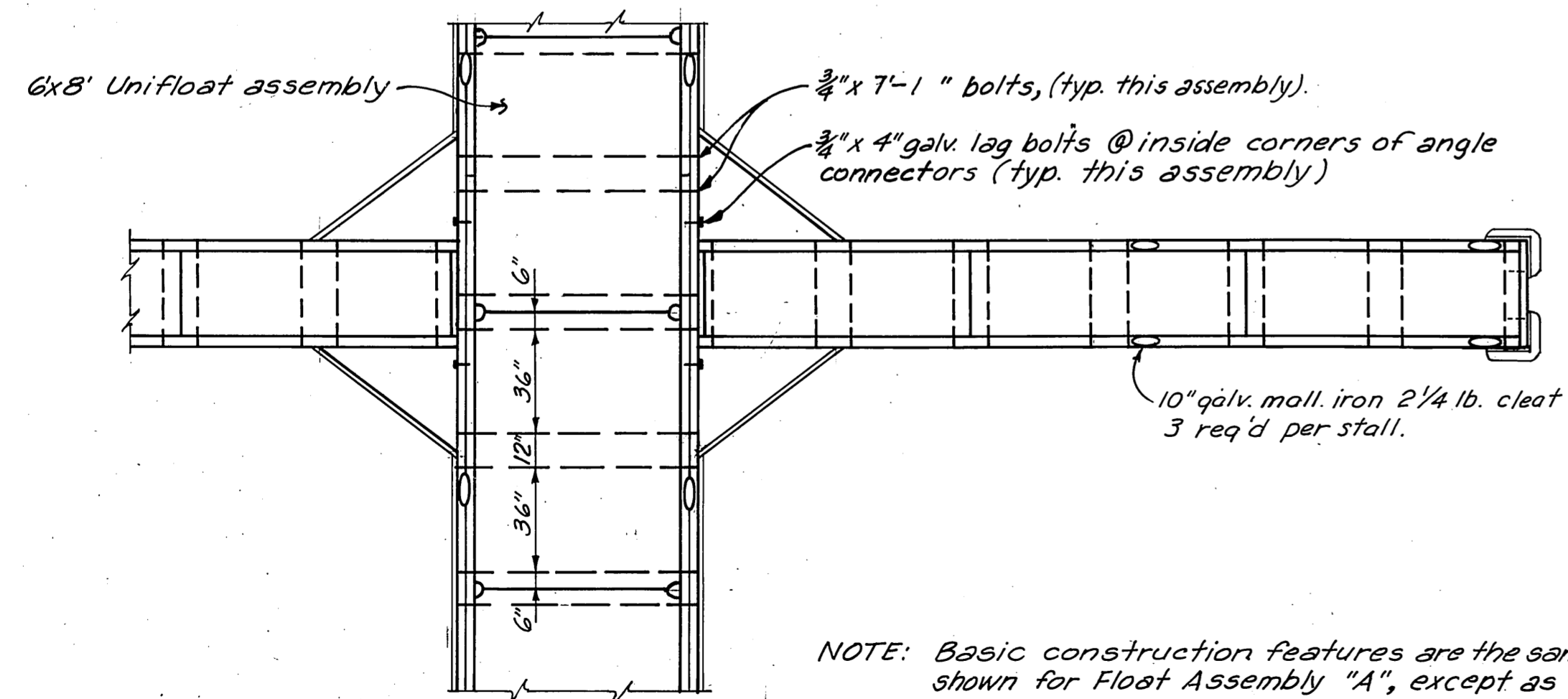
16' stall floats N.I.C.



TYPICAL FLOAT ASSEMBLY "B"

32' stall floats N.I.C.

NOTE: Basic construction features are the same as those shown for Float Assembly "A", except as noted.

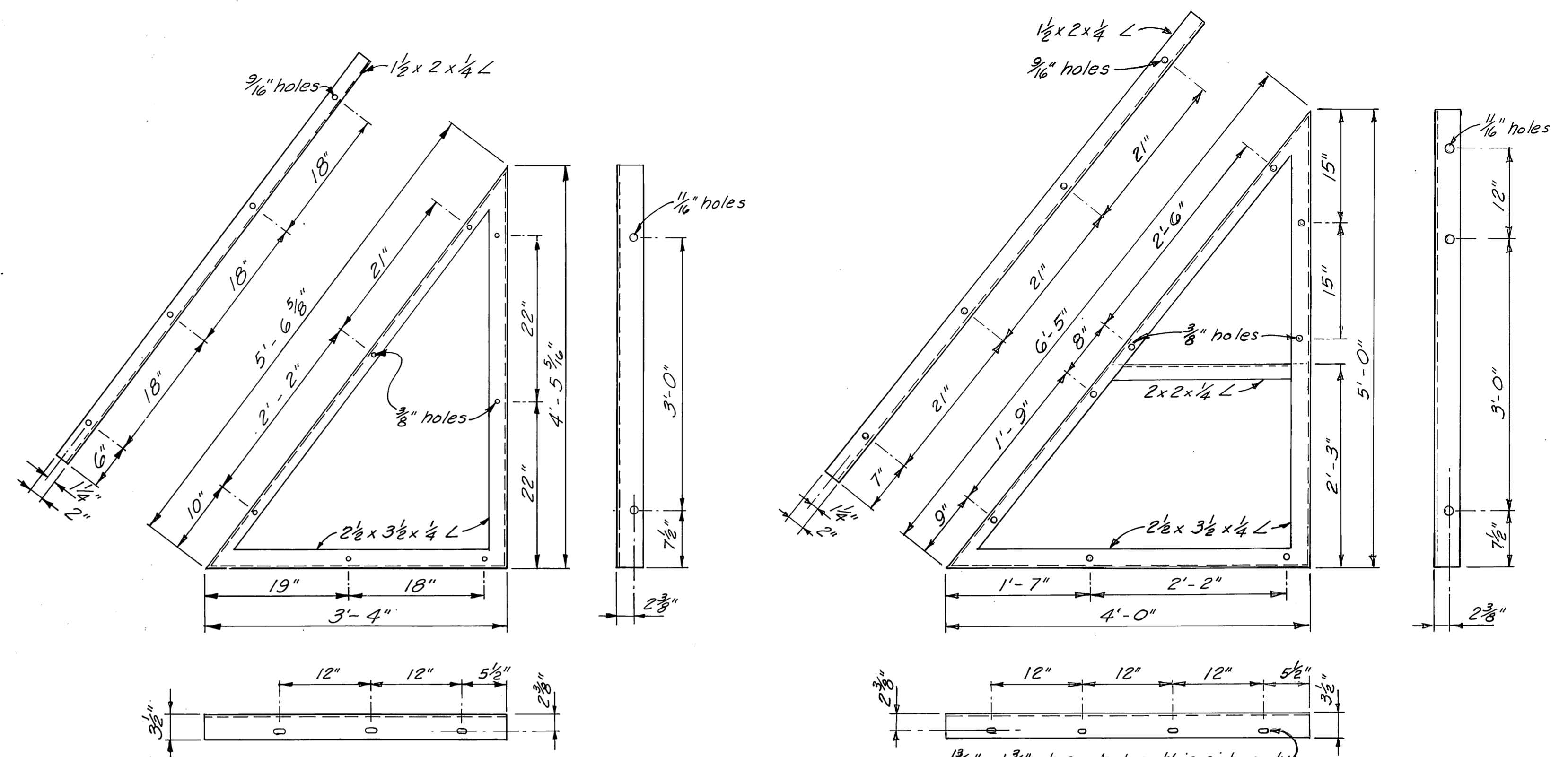


TYPICAL FLOAT ASSEMBLY "C"

NOTE: Basic construction features are the same as those shown for Float Assembly "A", except as noted.

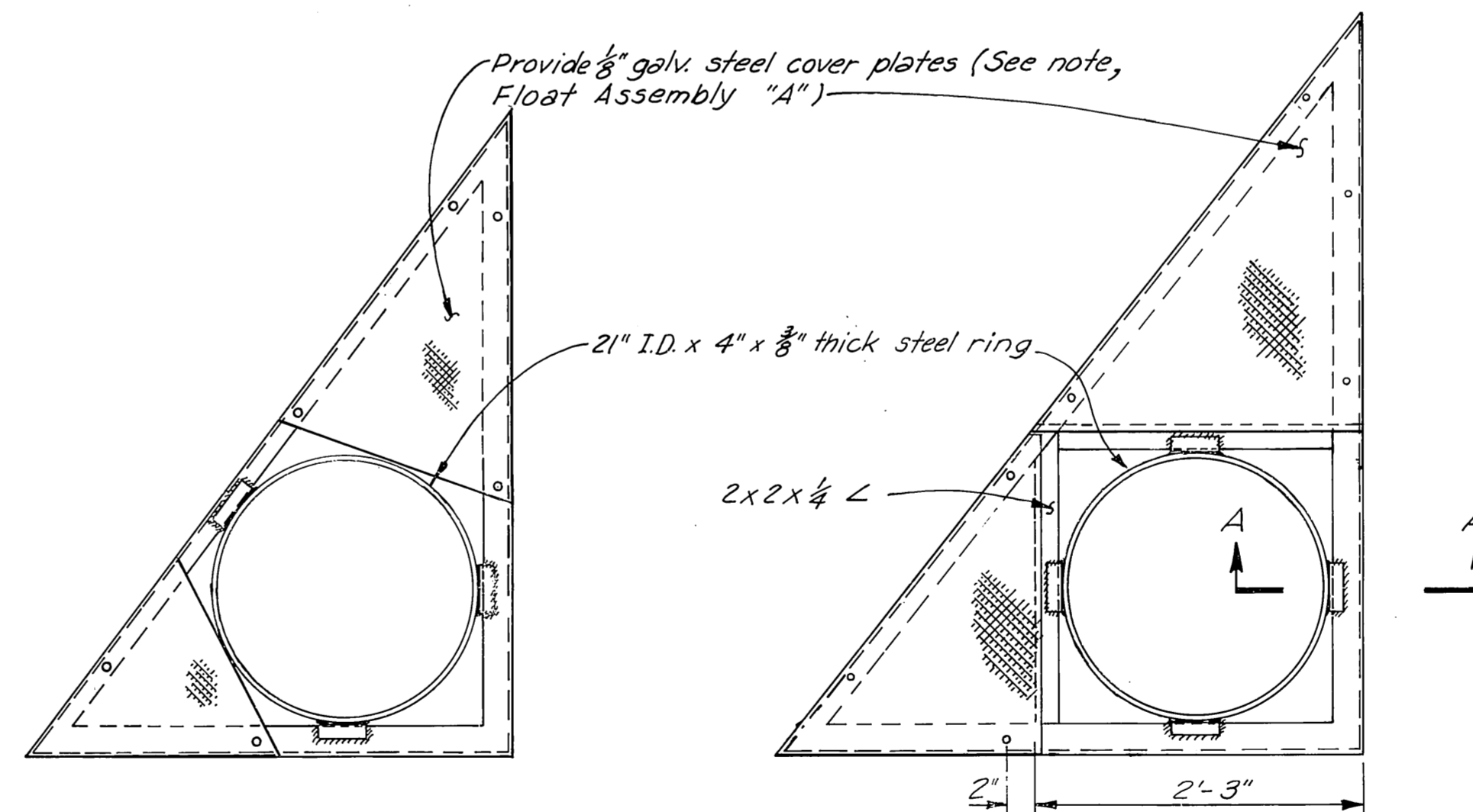
FLOAT ASSEMBLY DETAILS

$\frac{1}{4}$ " = 1'-0"



STALL FLOAT ANGLE BRACES

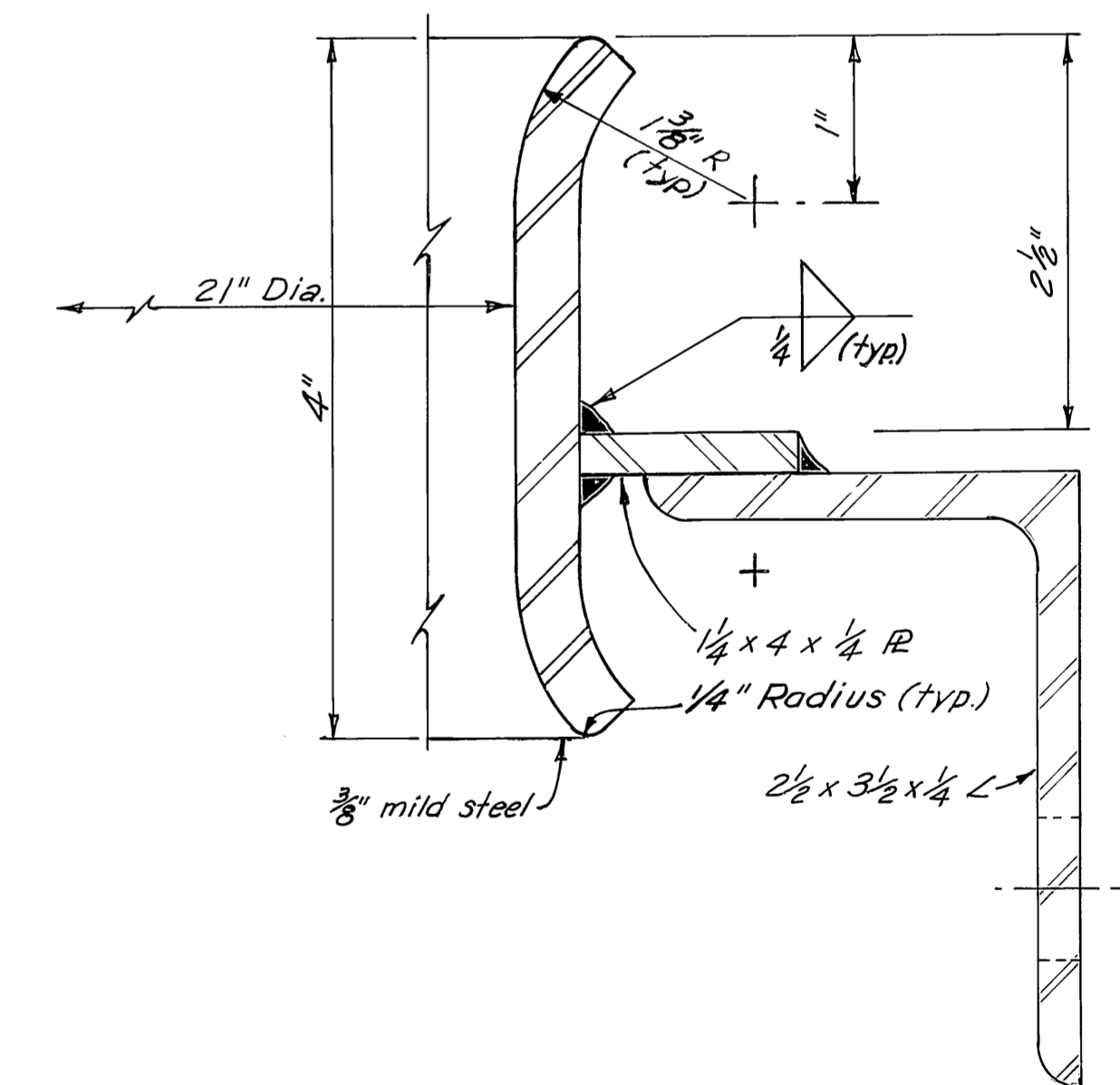
1" = 1'-0"



Note: All materials, dimensions, fasteners, etc. shall conform to those shown in Stall Float Angle Brace Detail, except as noted.

PILE COLLAR ANGLE BRACES

1" = 1'-0"

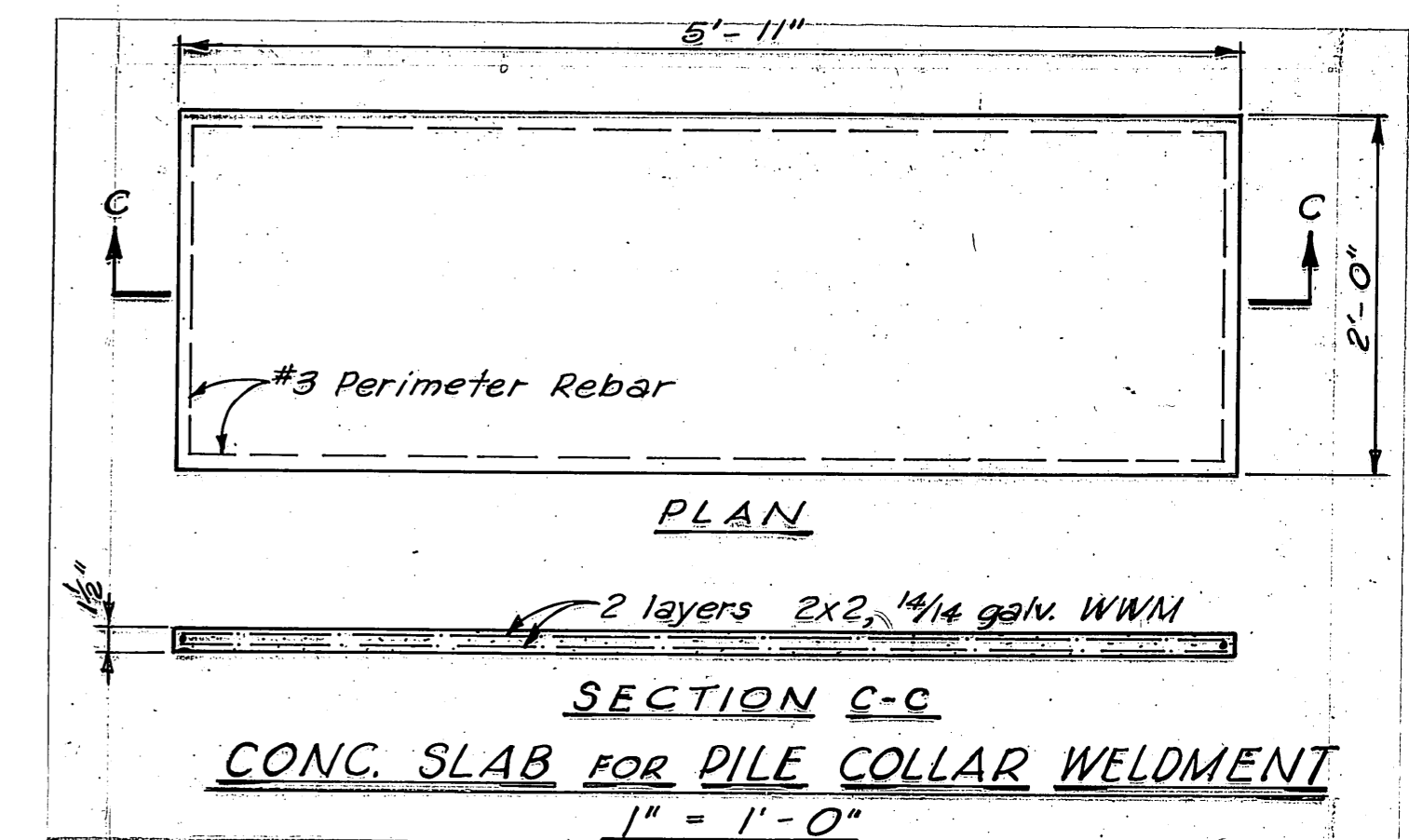
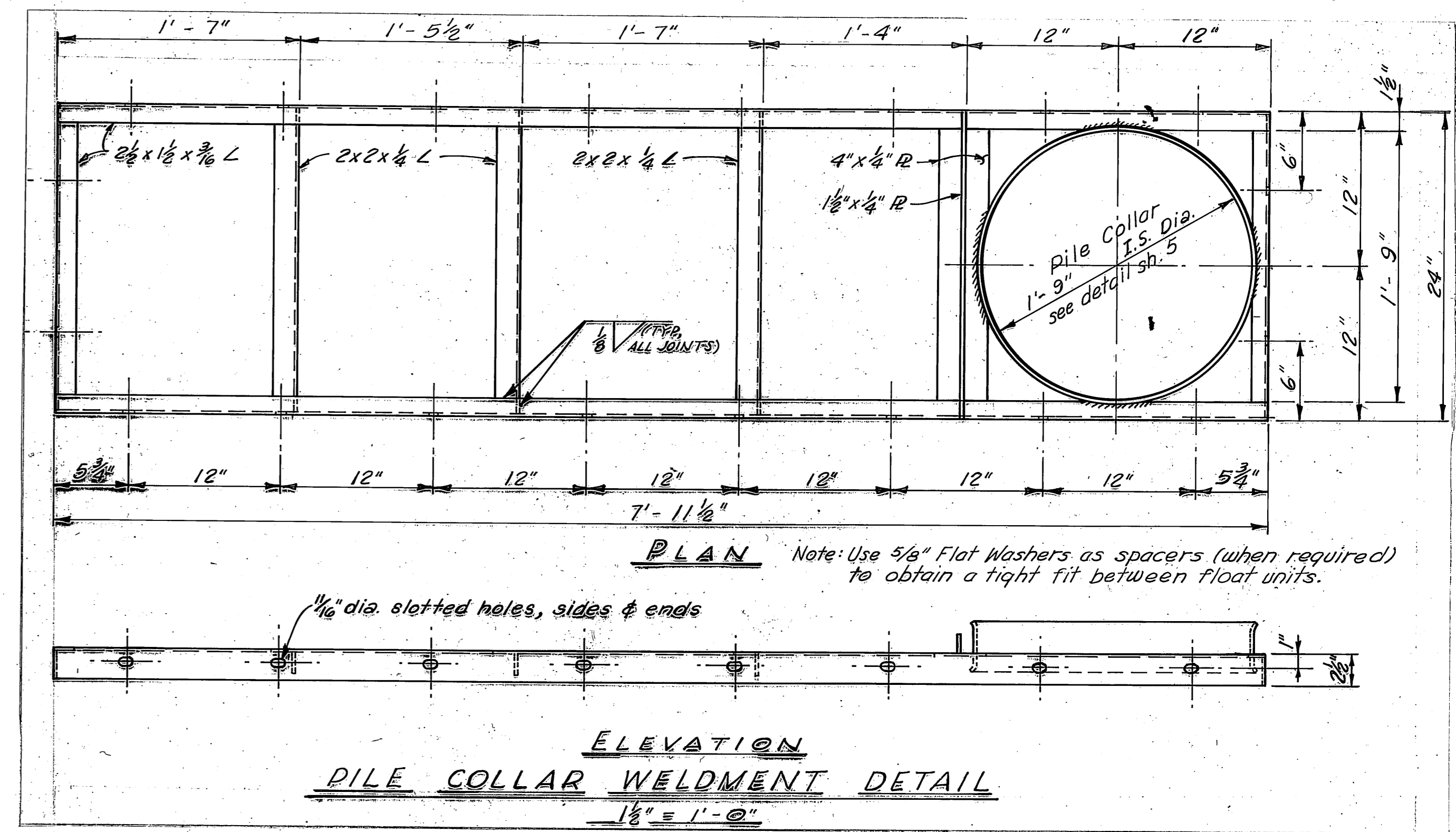
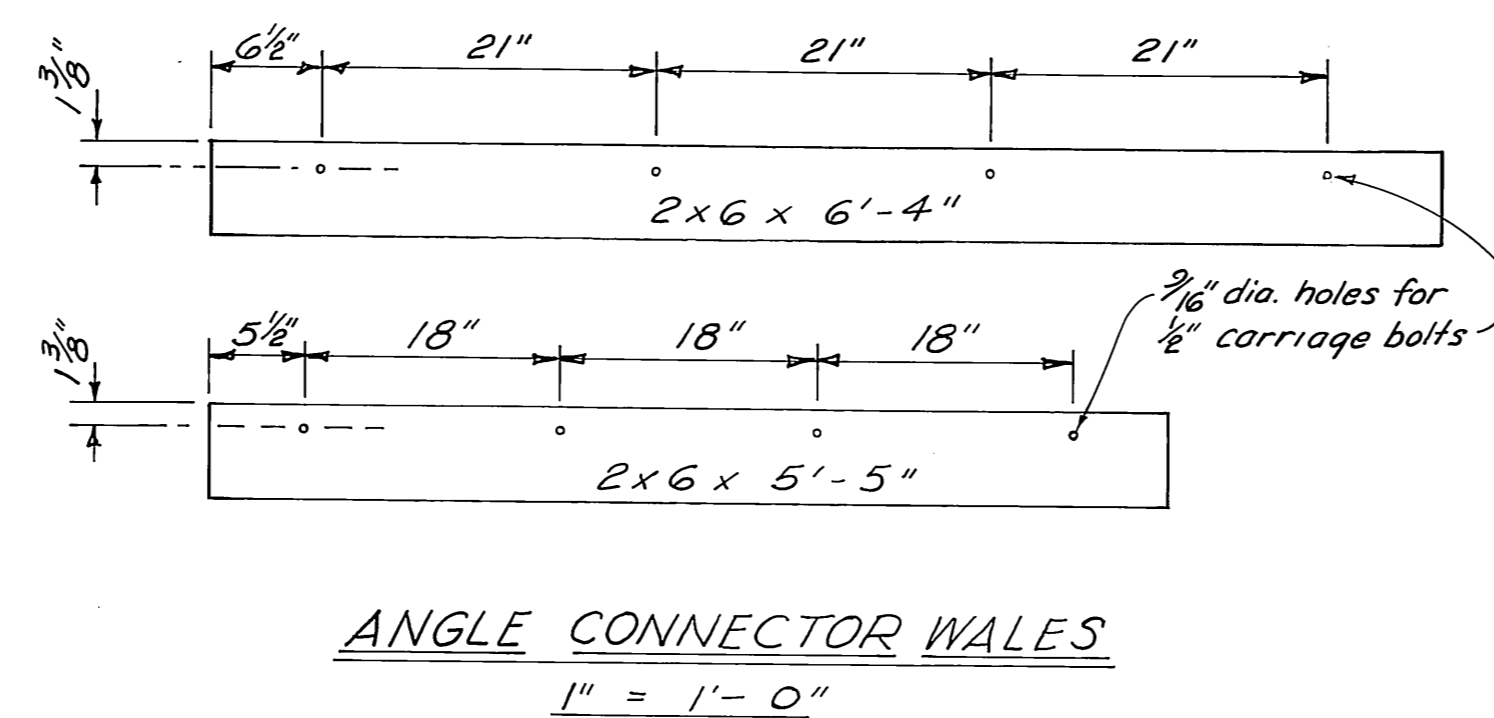
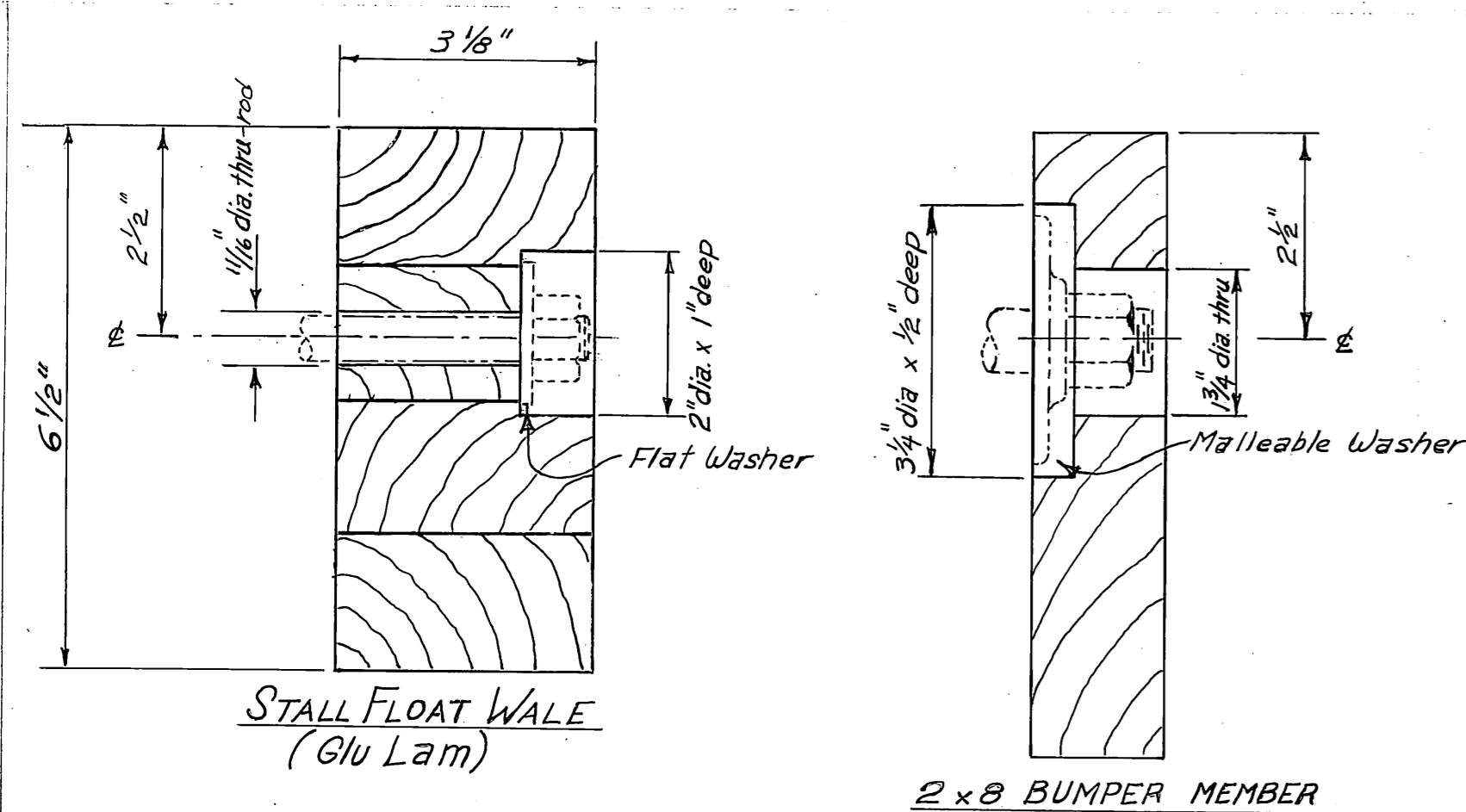
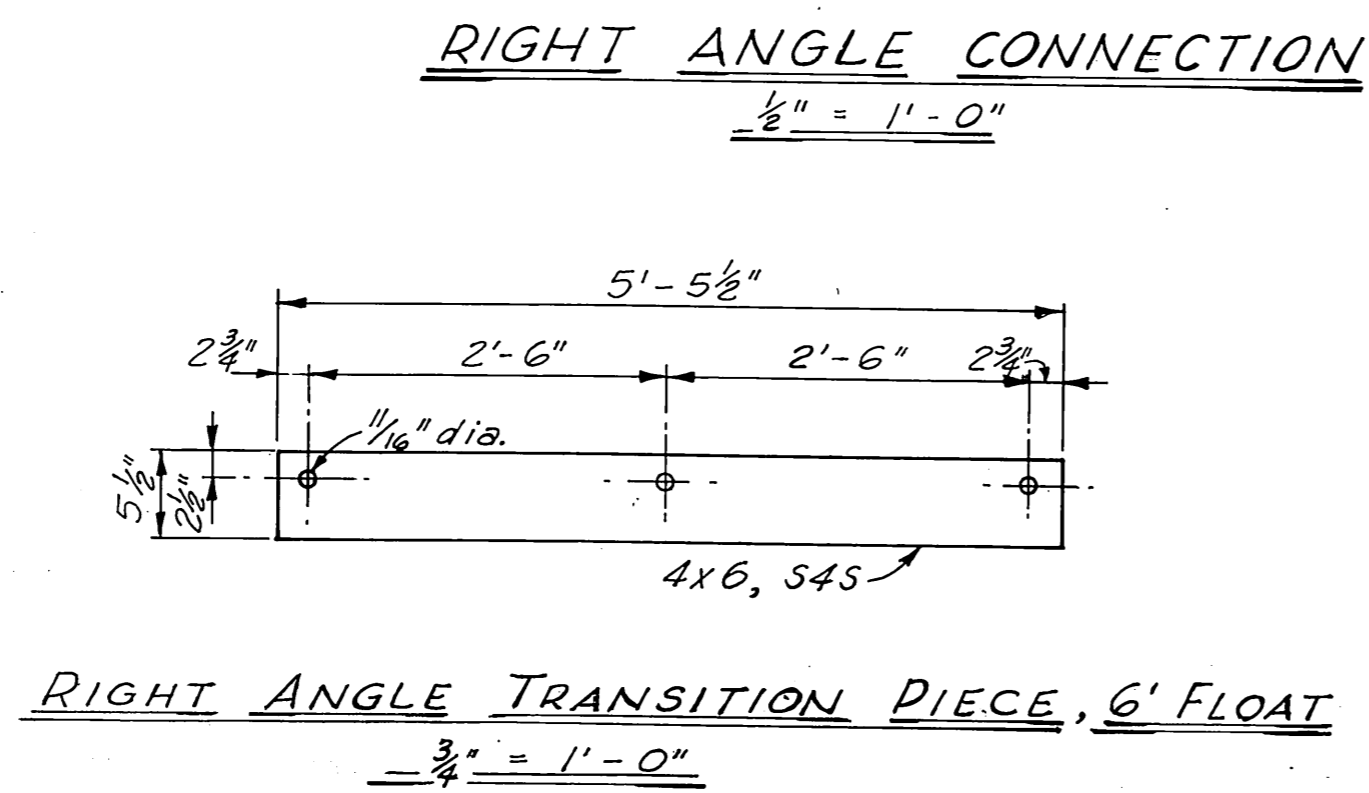
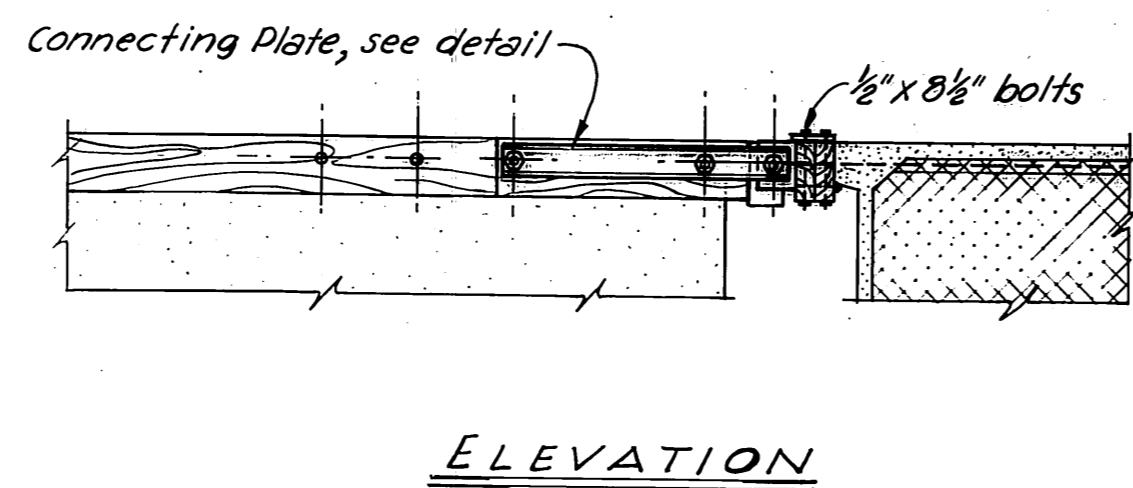
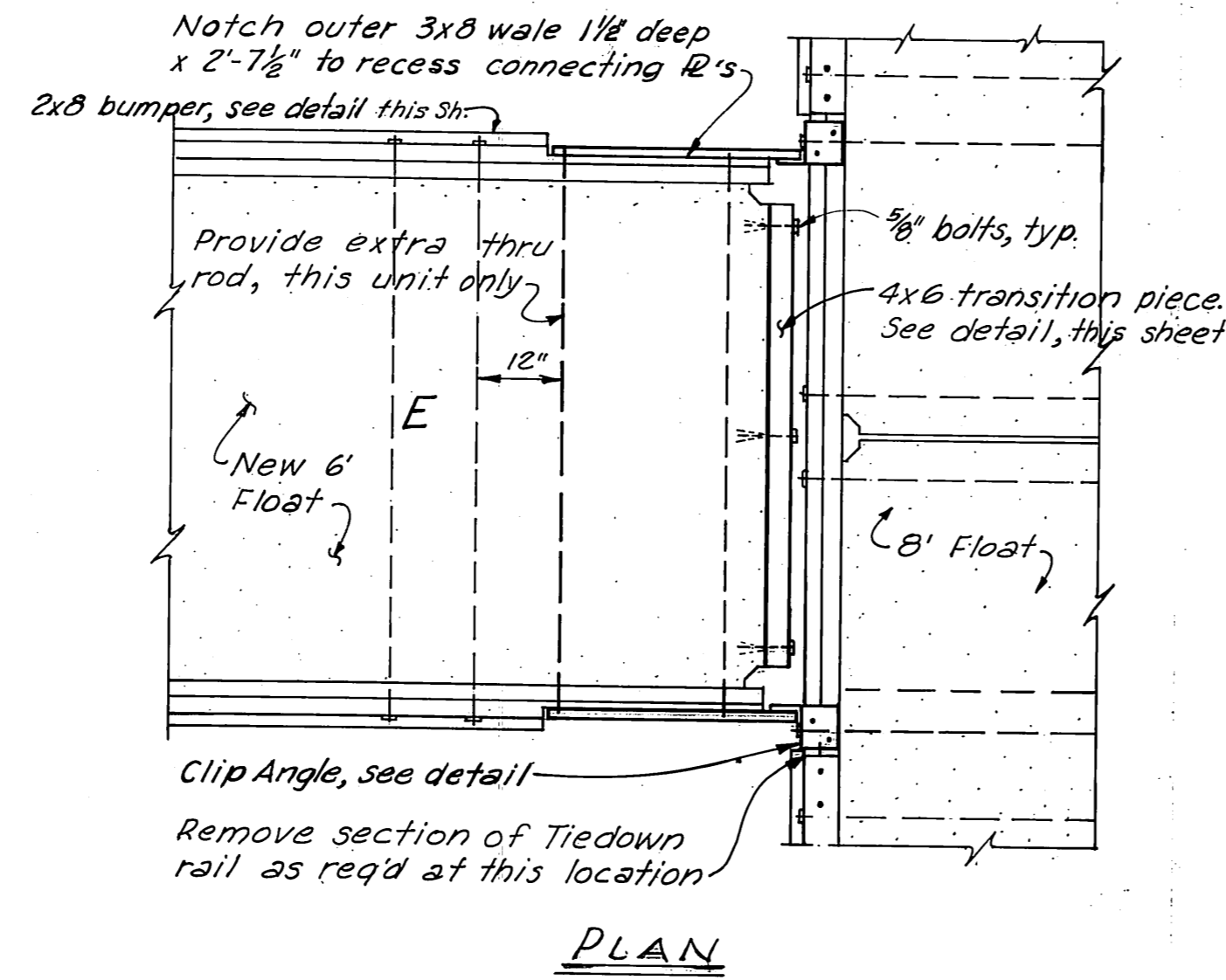
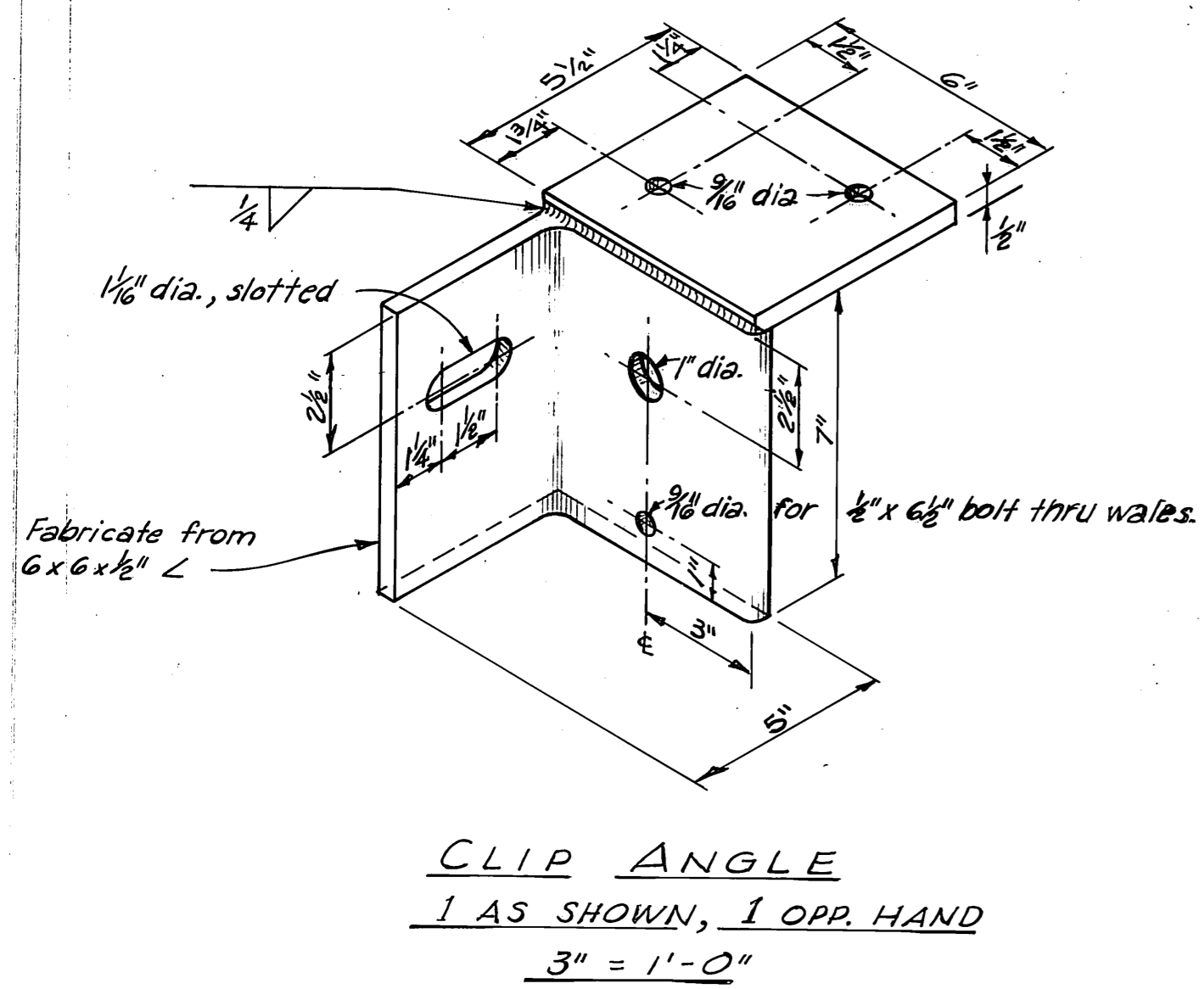
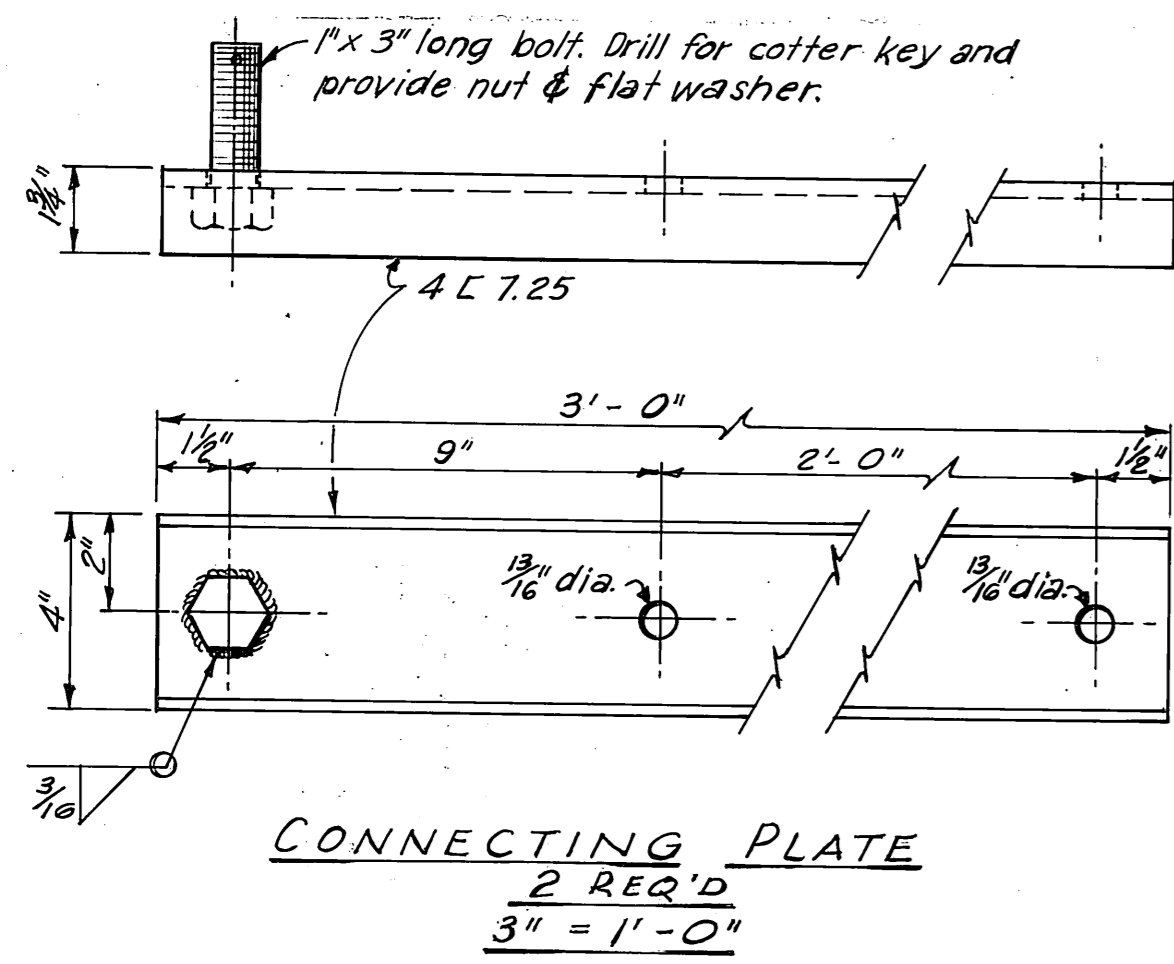


SECTION A-A

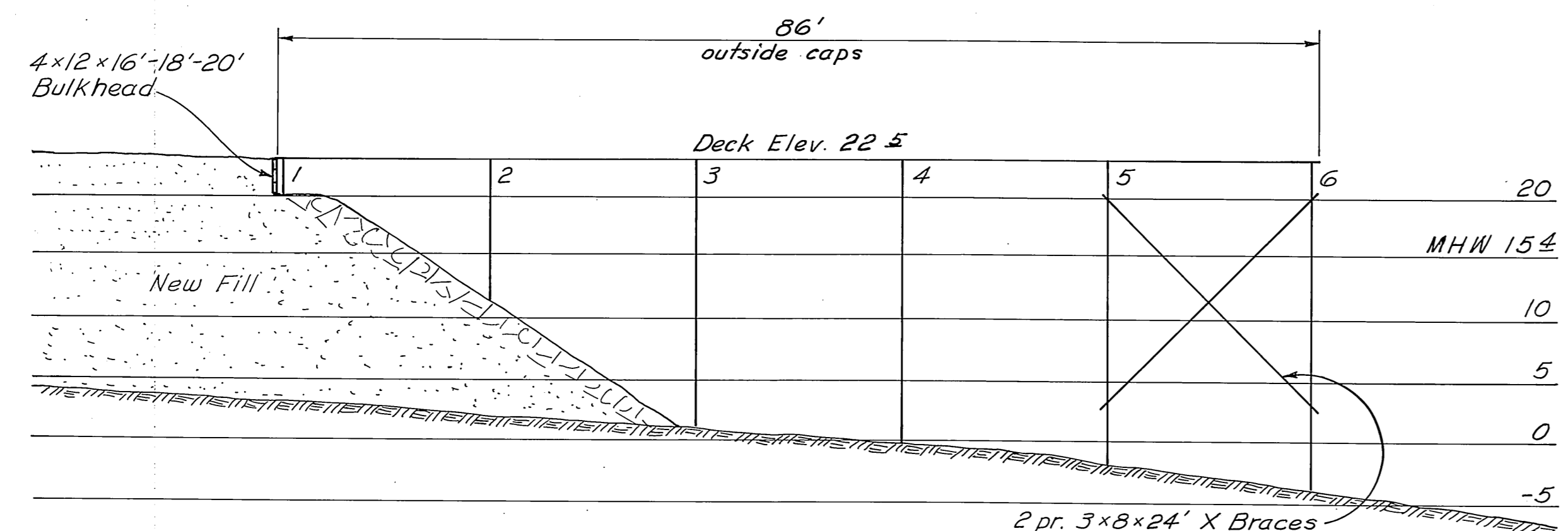
Full Size

As Constructed 10-15-74

DO NOT SCALE THIS DRAWING - USE DIMENSIONS		
STATE OF ALASKA DEPARTMENT OF PUBLIC WORKS DIVISION OF WATER AND HARBORS		
AURORA HARBOR CONCRETE FLOATS TYPICAL ASSEMBLIES & MISC. DETAILS		
SCALE As shown	SURVEYED -	APPROVED
DESIGNED 25 Mills PE	DRAWN JET	Don Statter
CHECKED	DATE 3-10-70	DIRECTOR
PROJECT NUMBER 3-74180	SHEET 5 OF 11	



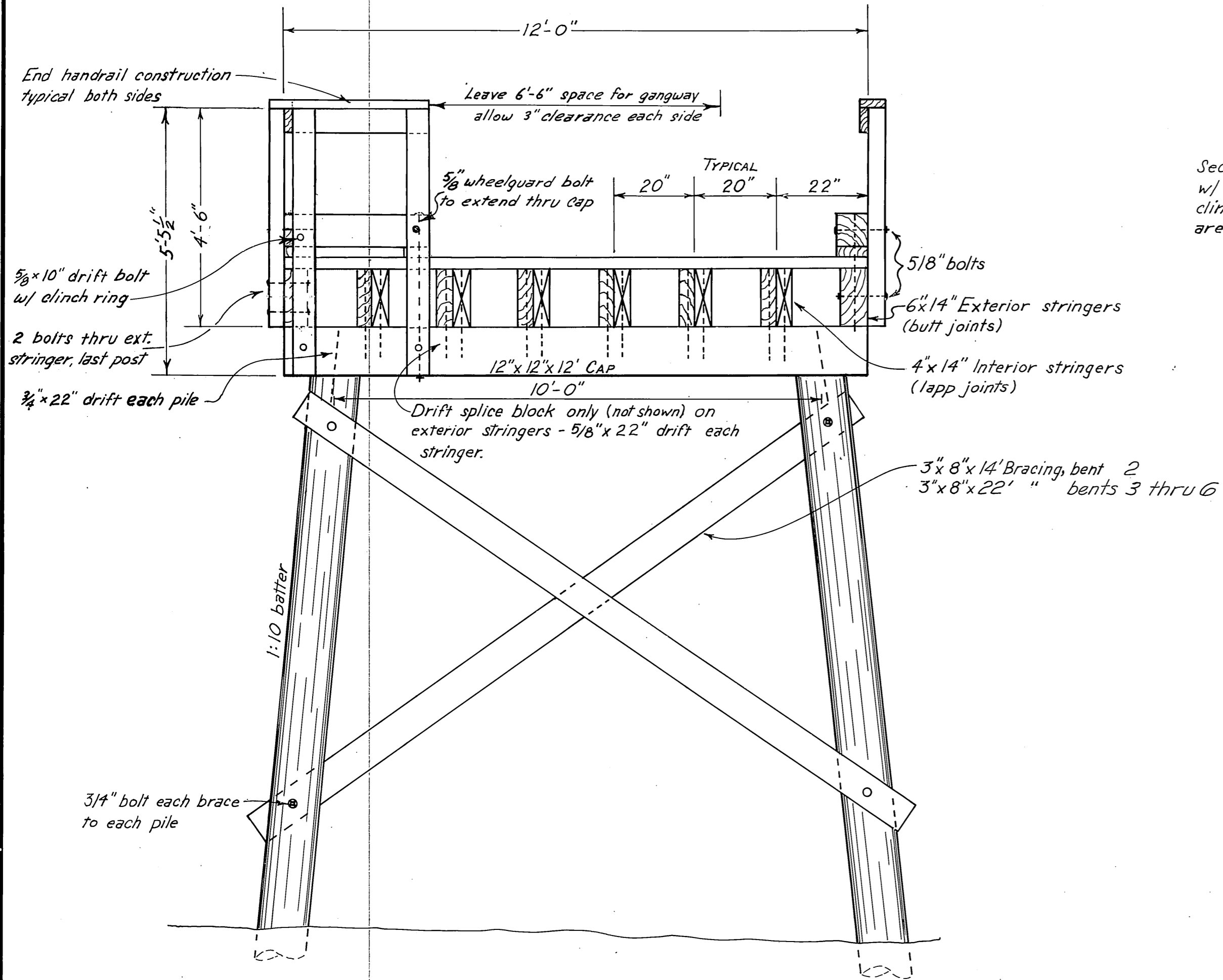
<b>As Constructed</b> 10-15-74		
DO NOT SCALE THIS DRAWING - USE DIMENSIONS		
STATE OF ALASKA DEPARTMENT OF PUBLIC WORKS DIVISION OF WATER AND HARBORS		
<b>AURORA HARBOR CONCRETE FLOATS TYPICAL ASSEMBLIES &amp; MISC. DETAILS</b>		
SCALE <i>As Shown</i>	SURVEYED _____	APPROVED _____
DESIGNED _____	DRAWN _____	<b>Don Statter</b> DIRECTOR
CHECKED _____	DATE <b>Nov. 1973</b>	
PROJECT NUMBER <b>3-74180</b>	SHEET <b>6</b> OF <b>11</b>	



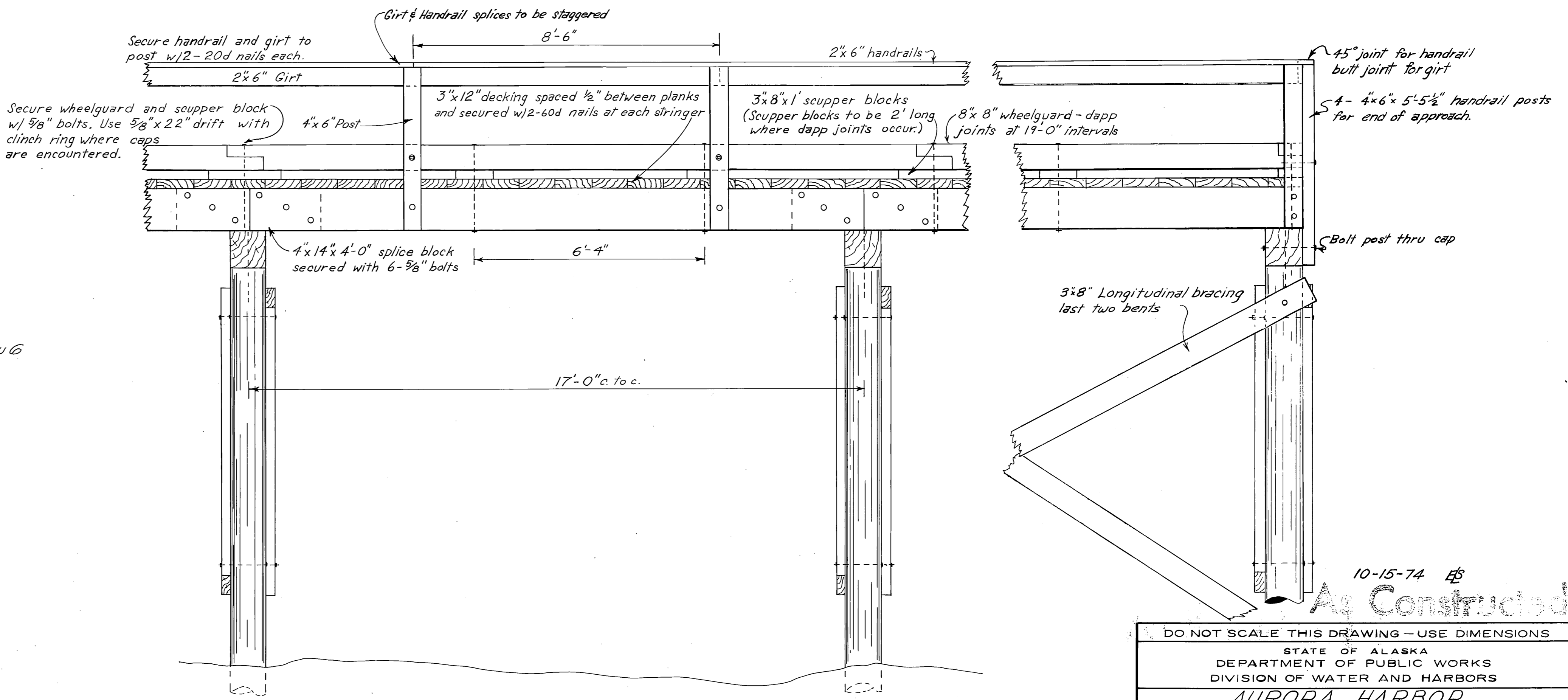
PROFILE  
1" = 10'

ITEM	MATERIALS			TYPE
	GRADE	DRESSING	CHED. TREAT.	
Piling	Class B		12" Ret.	Douglas Fir
Bracing	No. 1	Rough	"	"
Caps	"	S&S	8" Ret.	"
Ext Stringers	Sel. Str.	"	"	"
Splice Blocks	"	S2E	"	"
Int. Stringers	"	"	"	"
Decking	No. 1	S1S2E	"	"
Scupper Block	"	S&S	"	"
Wheelguard	"	"	"	"
Handrail Post	"	"	"	"
Girt	"	"	0.6 Penta.	"
Handrail	"	"	0.6 Penta.	"

Hardware to be galv. w/ malleable iron washers between all nut & wood surfaces.  
Bolts to be mushroom head type  
Bolt holes to be drilled 1/16" oversize  
Drift holes to be drilled 1/16" undersize  
All drill holes to be treated w/ hot creosote oil.  
All pressure treated creosote & penta material shall be cut to size prior to treatment.



TYPICAL APPROACH SECTION  
Scale 1/2" = 1'-0"



TYPICAL APPROACH ELEVATION  
Scale 1/2" = 1'-0"

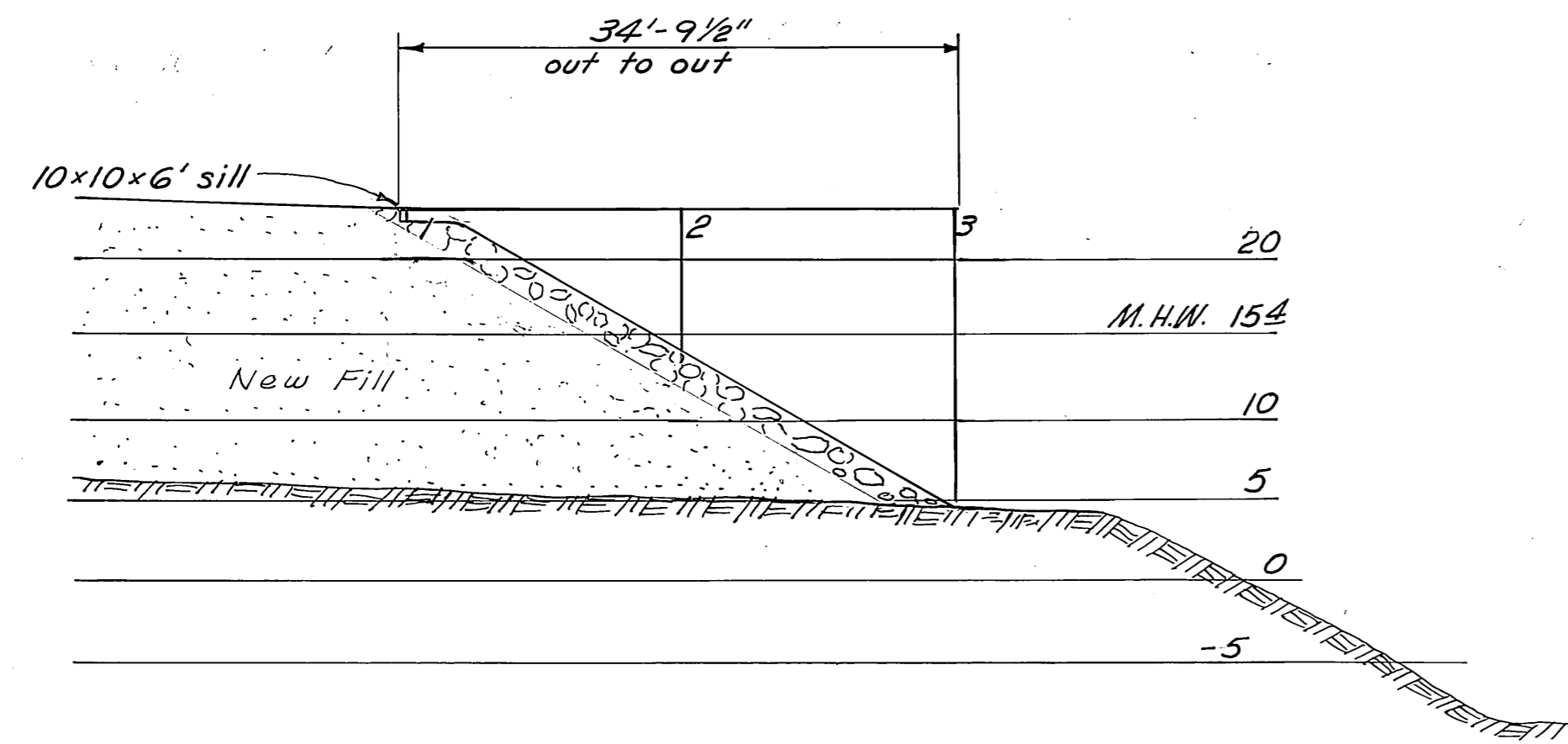
10-15-74 ES  
As Constructed

DO NOT SCALE THIS DRAWING - USE DIMENSIONS

STATE OF ALASKA  
DEPARTMENT OF PUBLIC WORKS  
DIVISION OF WATER AND HARBORS

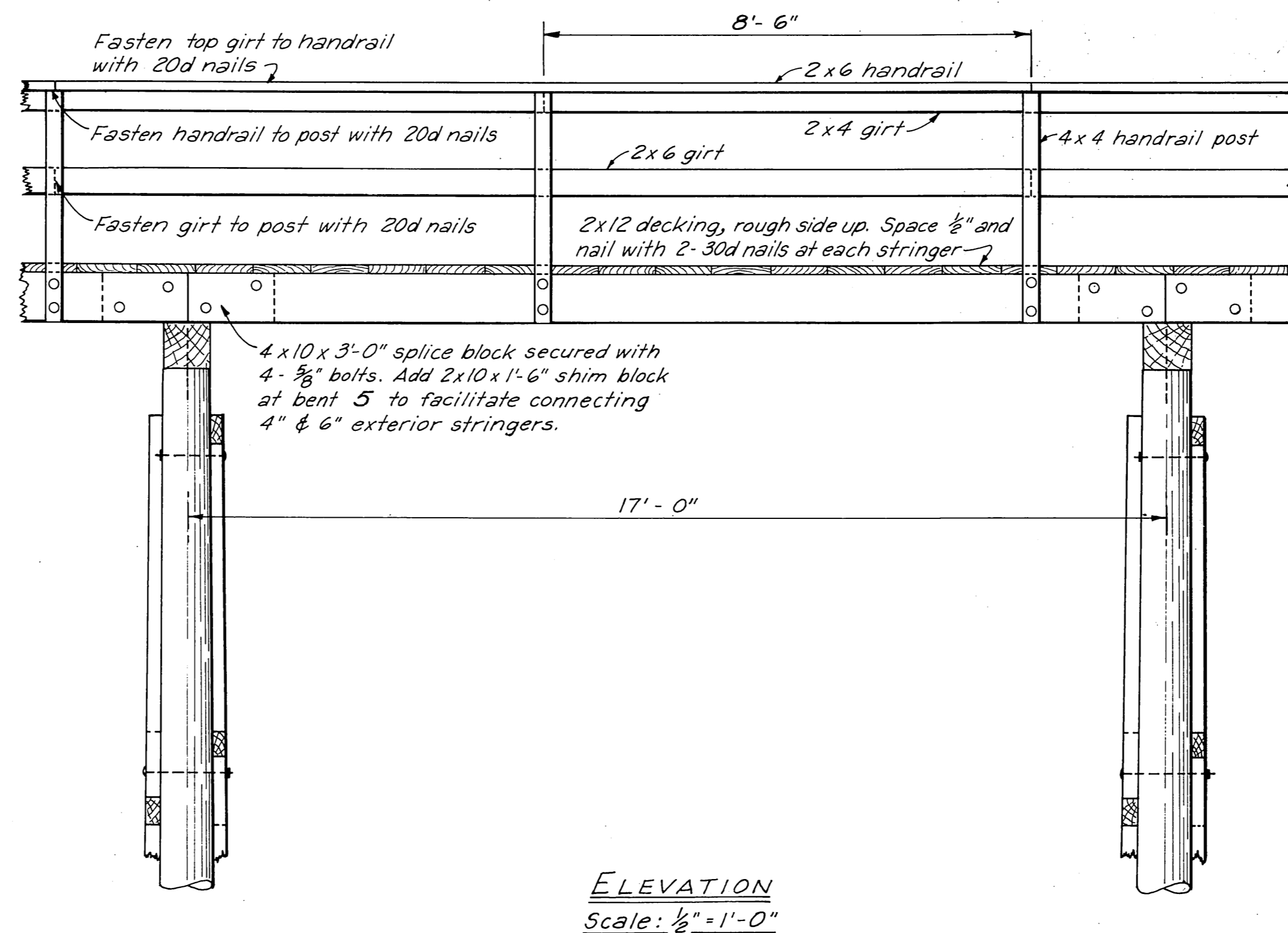
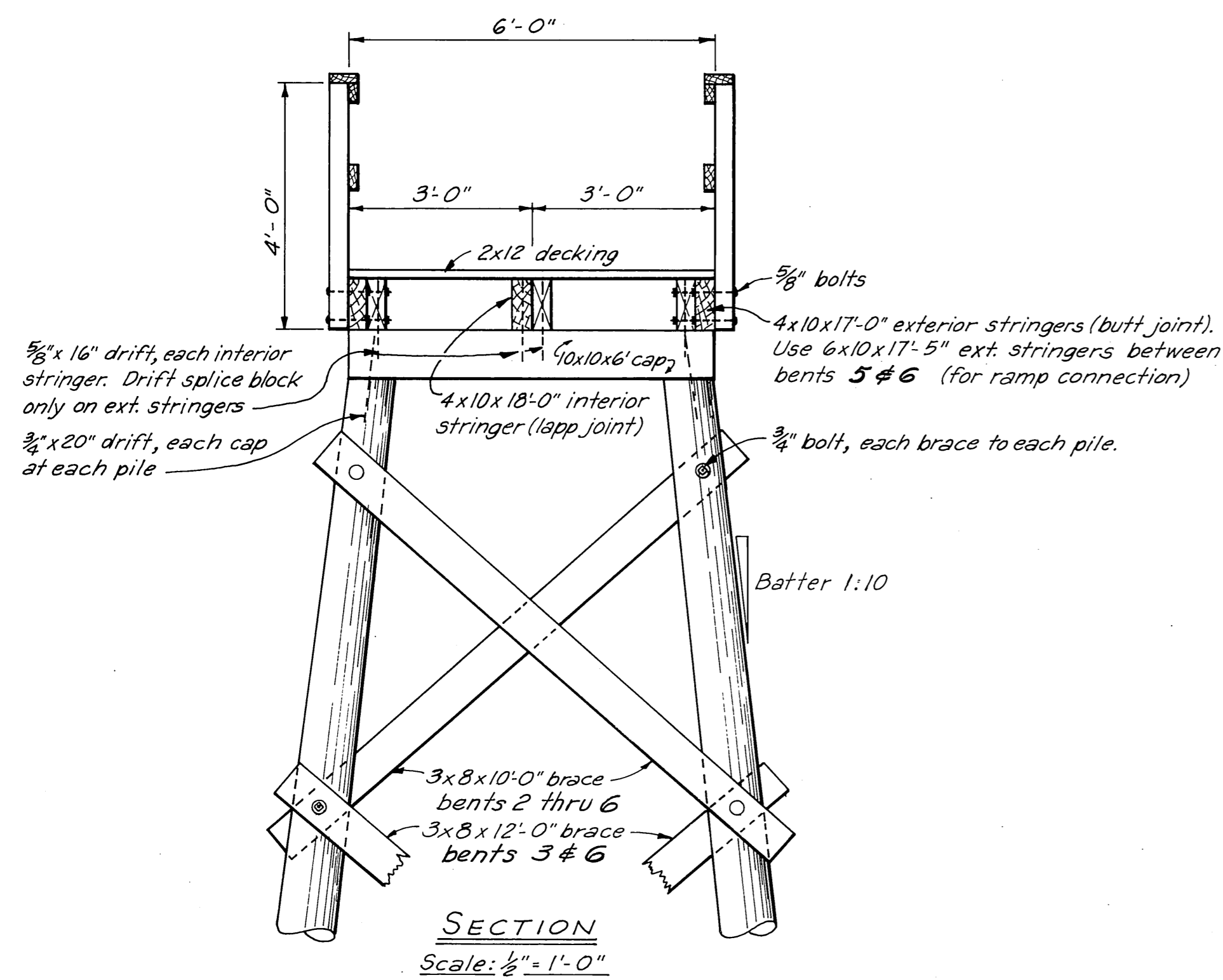
**AURORA HARBOR**  
**TYPICAL 12'-0" APPROACH**  
**CONSTRUCTION DETAILS**

SCALE As Shown	SURVEYED	APPROVED
DESIGNED DS	DRAWN CED	Don Statter
CHECKED	DATE	DIRECTOR
PROJECT NUMBER 3-74180	SHEET 7 OF 11	



**PROFILE**  
1" = 10'

Seaplane approach only. See dwg. change order No. 1 for Aurora harbor approach profile.



**NOTES:**

1. All hardware to be hot dip galvanized. A malleable iron washer shall be placed between all nut and wood surfaces.
2. All bolts to be of the economy headed type. Bolt holes to be drilled true size.
3. Drift holes to be 1/16" undersize.
4. All pressure treated creosote materials shall be cut to size prior to treatment.
5. Drift holes in stringers & splice blocks, and bolt holes in exterior stringers for splice blocks shall be drilled prior to treatment. All other holes may be field drilled.
6. All field drilled holes shall be treated with hot creosote oil.

MATERIALS			
ITEM	DRESSING	TREATMENT	GRADE
Piling		12# Creo. Ret.	Class B
Bracing	Rough	" " "	No. 1
Caps	S4S	8# Creo. Ret.	"
Stringers	S2E	" " "	Sel. Str.
Splice Block	"	" " "	"
Decking	S1S2E	" " "	No. 1
Handrail Post	S4S	" " "	"
Handrail	"	0.6# Penta.	"
Girts	"	" " "	"

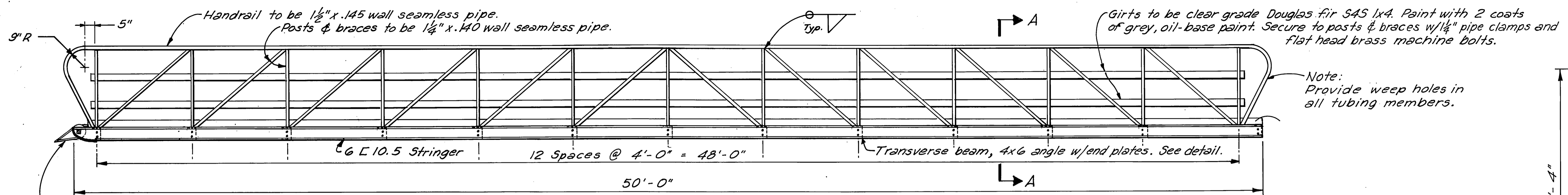
All 12-lb. creo. treatment to be Full Cell.  
All 8-lb. creo. treatment to be Empty Cell.  
All material to be Douglas Fir.

**As Constructed** 10-16-74

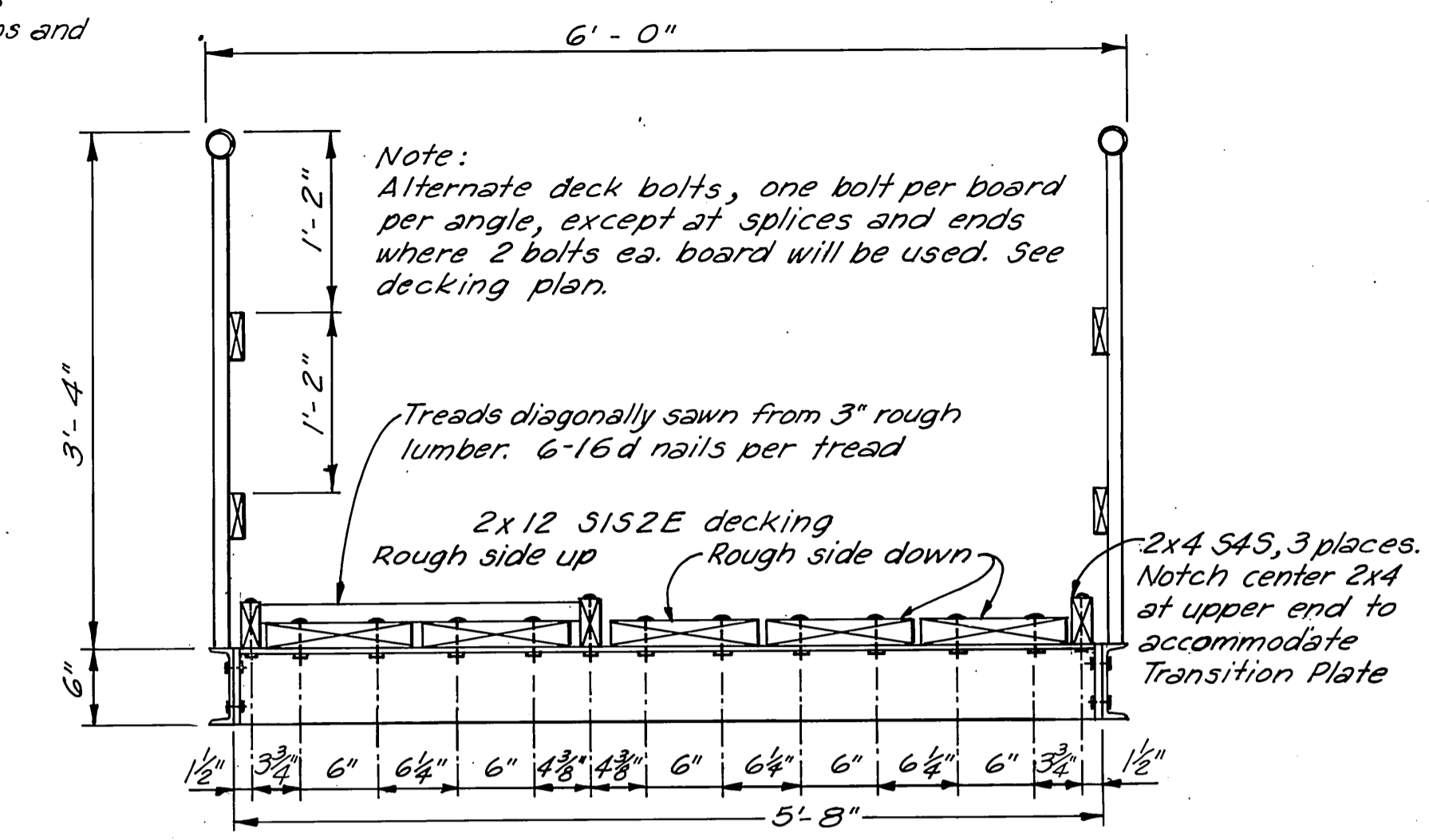
STATE OF ALASKA  
DEPARTMENT OF PUBLIC WORKS  
DIVISION OF WATER AND HARBORS  
**AURORA HARBOR**  
**TYPICAL 6'-0" APPROACH**  
**CONSTRUCTION DETAILS**

SCALE *As noted*  
DATE \_\_\_\_\_  
PROJ. NO. 3-74/80  
SURVEYED BY \_\_\_\_\_  
APPROVED *Don Statter*  
DIRECTOR  
DRAWN BY *JET*  
CHECKED BY \_\_\_\_\_

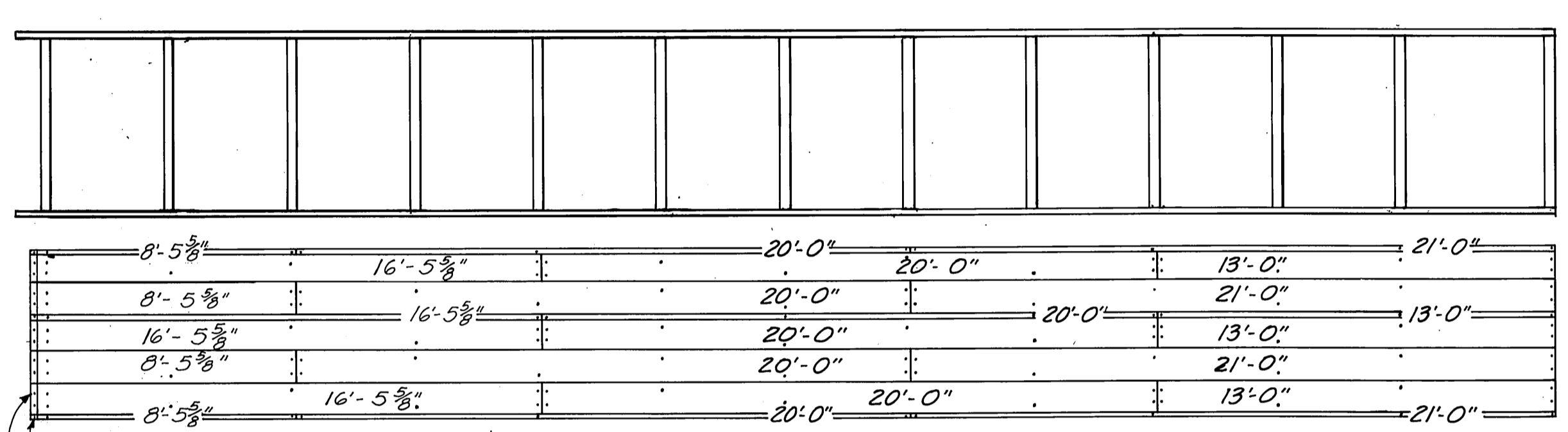




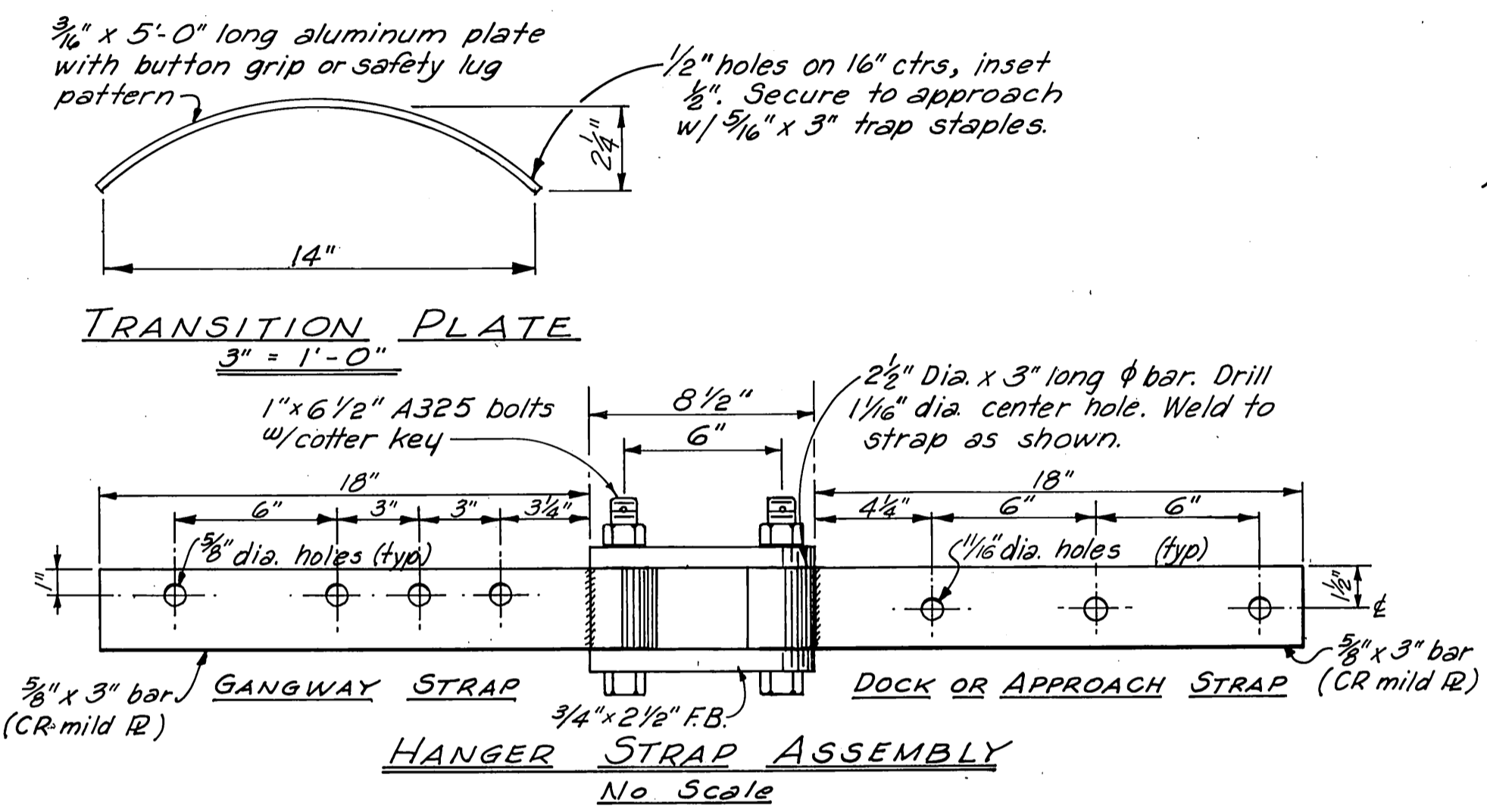
**SIDE ELEVATION**  
3/8" = 1'-0"



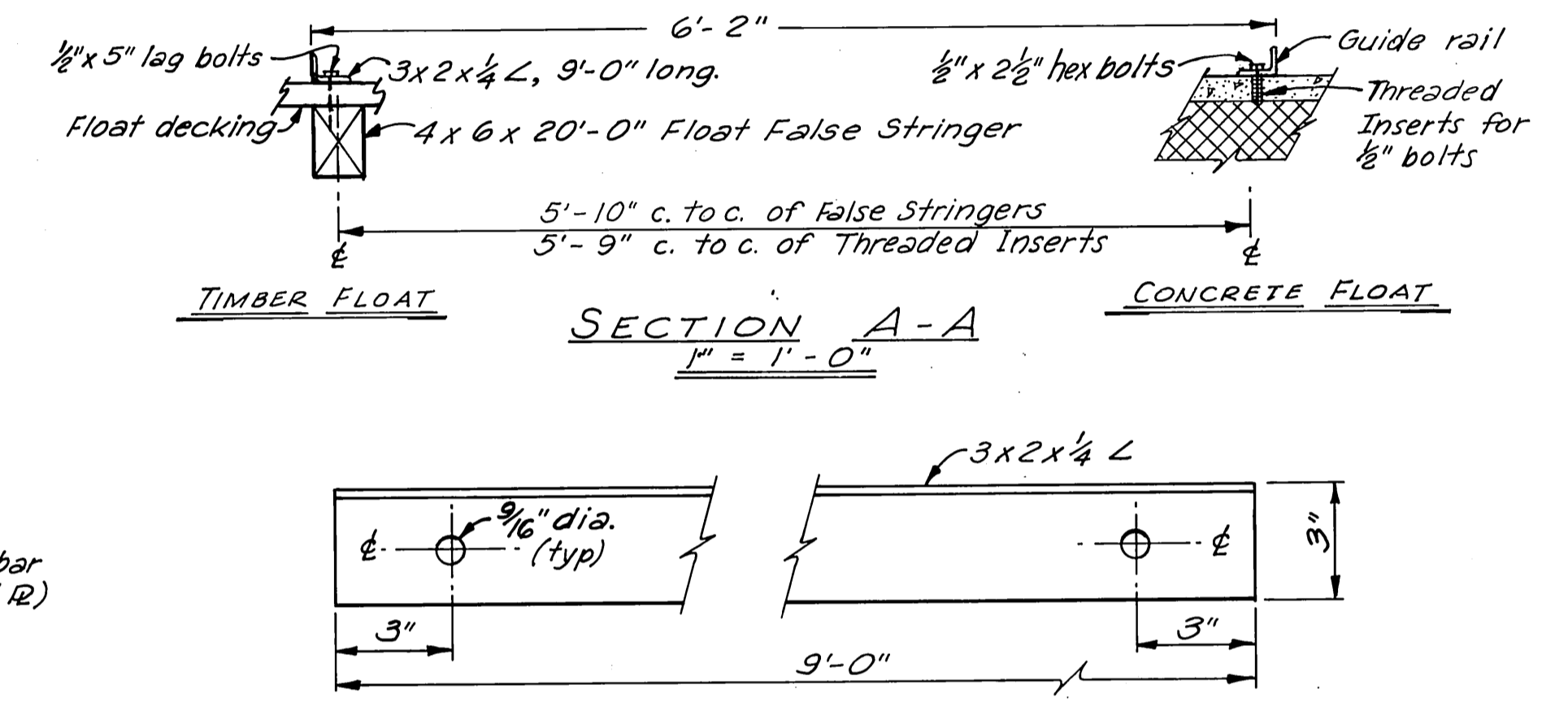
**SECTION A-A**  
1" = 1'-0"



**DECKING SPLICE LAYOUT**  
1/4" = 1'-0"

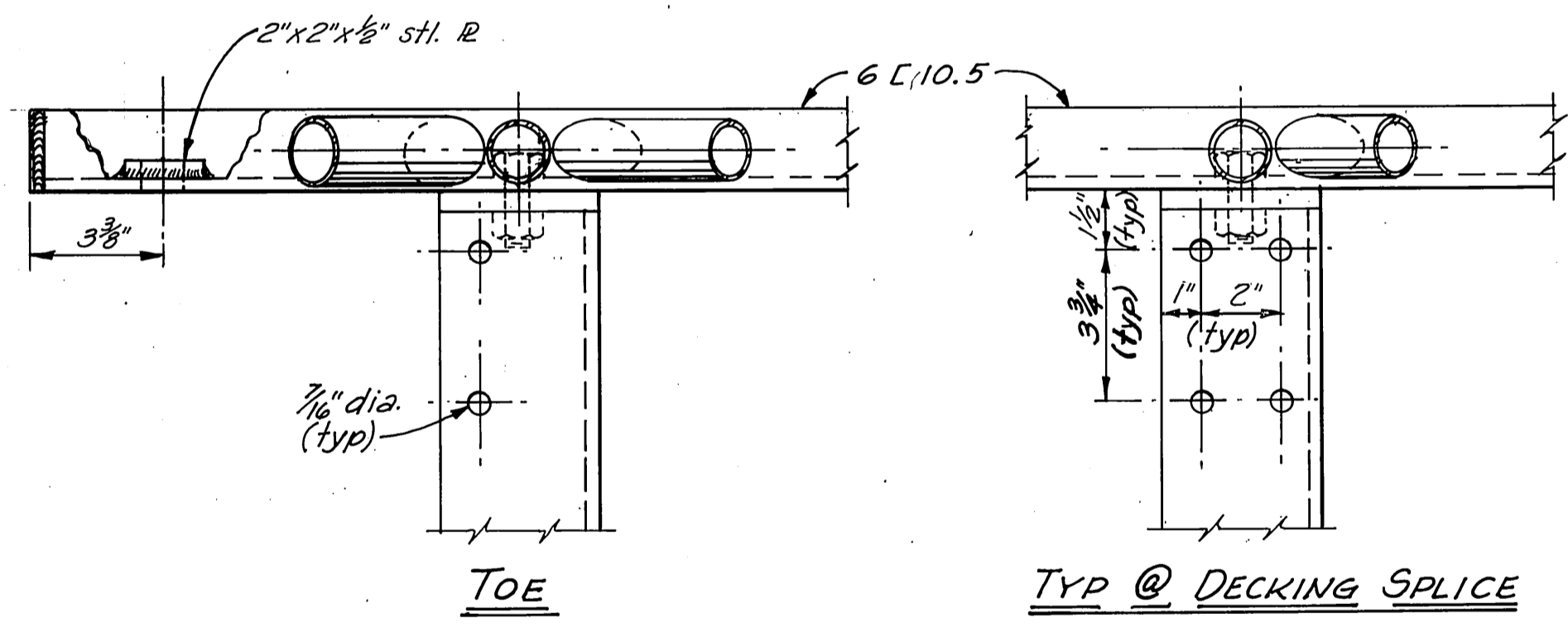


**HANGER STRAP ASSEMBLY**  
No Scale



**GUIDE RAIL**  
3/8" = 1'-0"

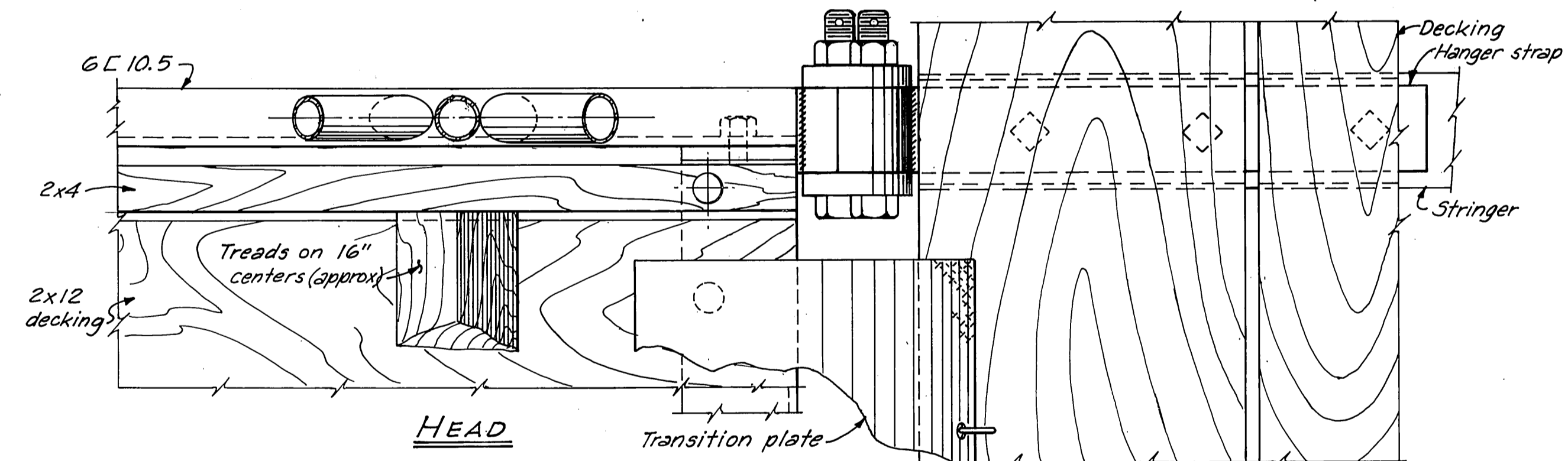
Notch decking 2 1/4" wide x 1/4" deep. Field drill this row of 3/8" holes.



**TOE**

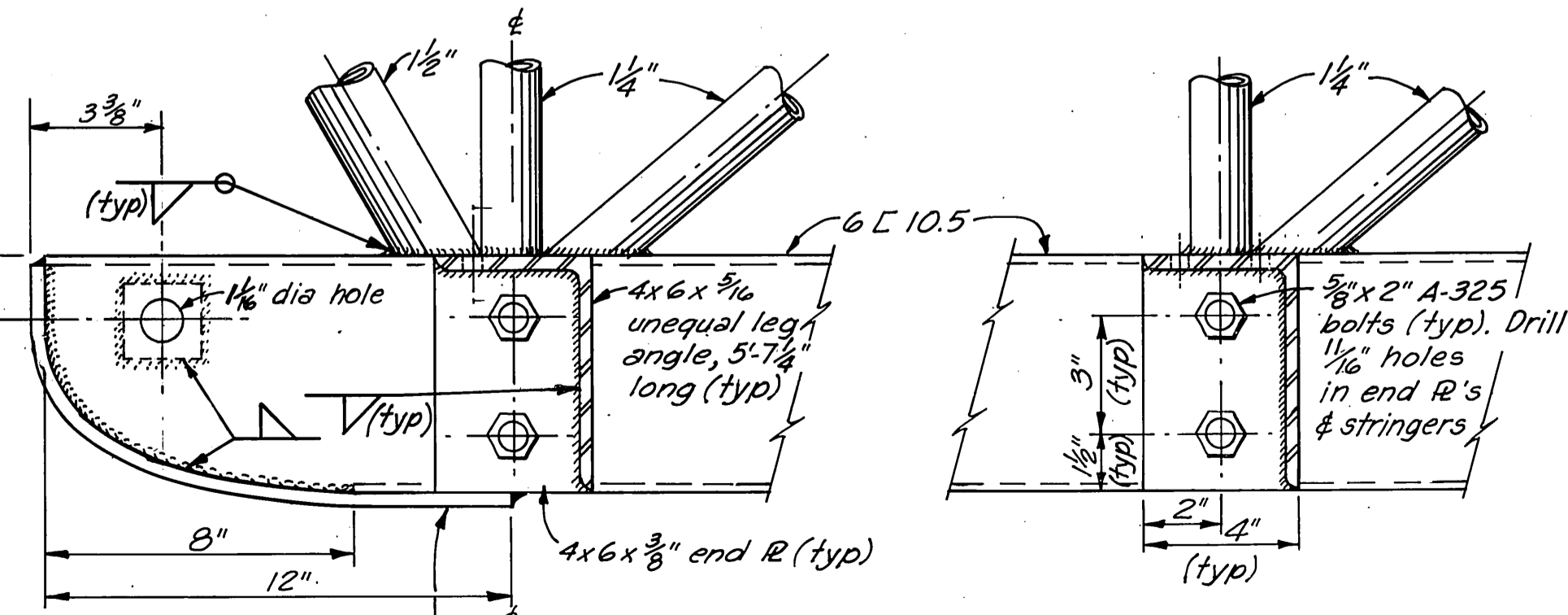
**TYP @ DECKING SPLICE**

NOTE: FOR TOE TRANSITION PIECE, SEE SH. B

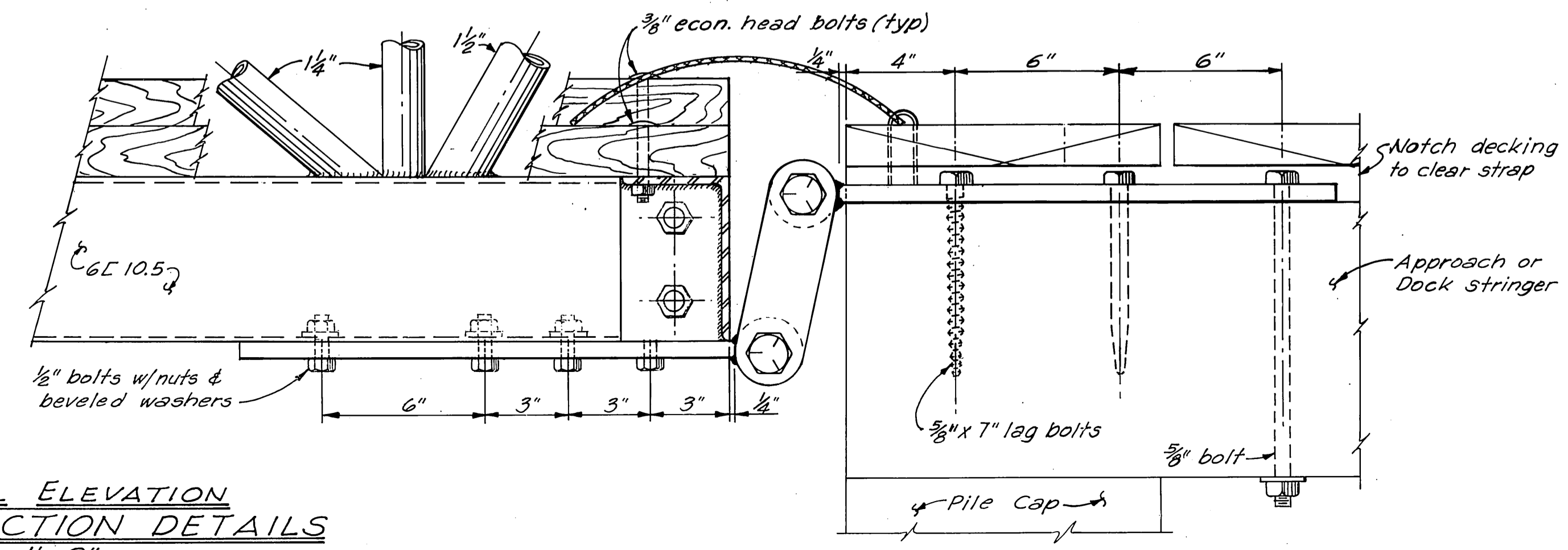


**PLAN**

**DOCK OR APPROACH**



**SECTIONAL ELEVATION CONSTRUCTION DETAILS**  
3" = 1'-0"



- NOTES:**
1. All seamless pipe shall conform to ASTM A-53.
  2. All channels, angles & plates shall conform to ASTM A-36.
  3. Trusses shall be shop fabricated & assembled including hangers.
  4. Splices shall be held to a minimum and, where necessary, shall be made in a manner that will not reduce the strength of the truss.
  5. No tubing or channel splices will be permitted within the middle half of the truss structure.
  6. Trusses & transverse beams shall be hot dipped galvanized after fabrication and in accordance with ASTM A-123, A-384, A-385 & A-386.
  7. All steel hardware & fasteners shall be hot dipped galvanized in accordance with ASTM A-153.
  8. Decking & deck spacers shall be Select Structural grade Douglas fir, Pentachlorophenol pressure treated to 0.6 lb. cu. ft. retention, and shall be field drilled to match shop drilled holes in transverse members.

**As Constructed** 10-16-74

Revised 3-12-73 Hanger linkage  
Lumber grade  
Penta. retent  
Misc. holes, no. & size  
Revised 4-7-71. Removed Tension Wires.

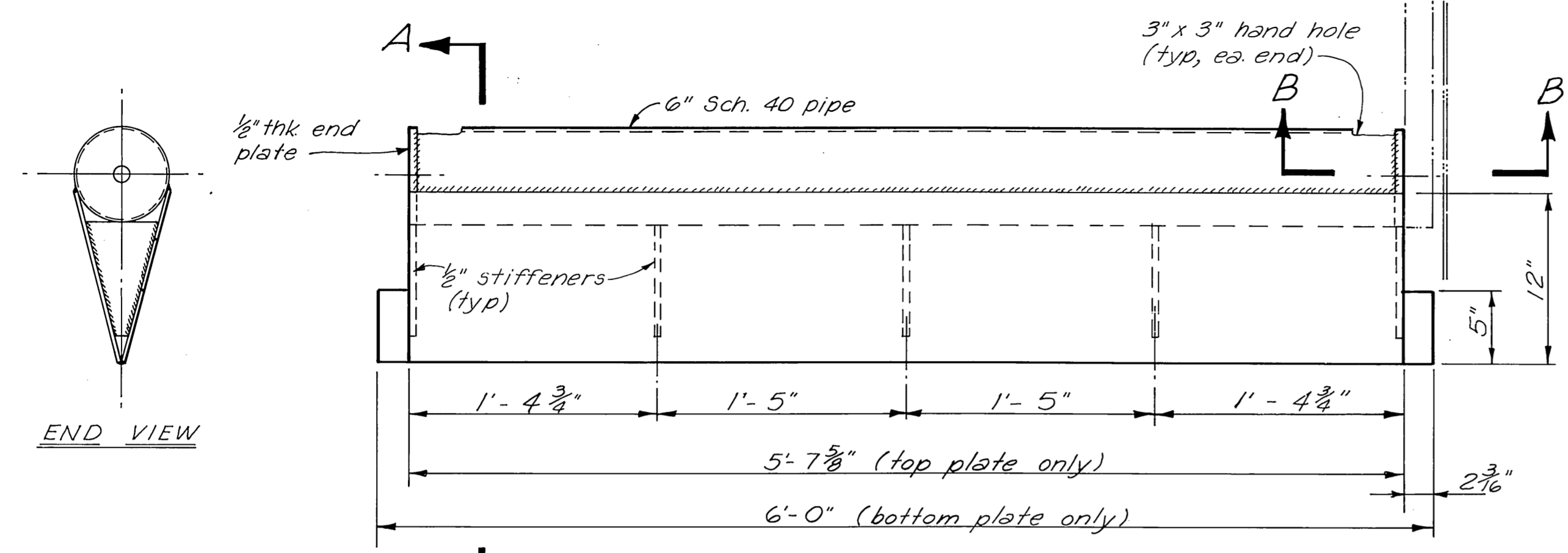
ELS  
JET

DO NOT SCALE THIS DRAWING - USE DIMENSIONS

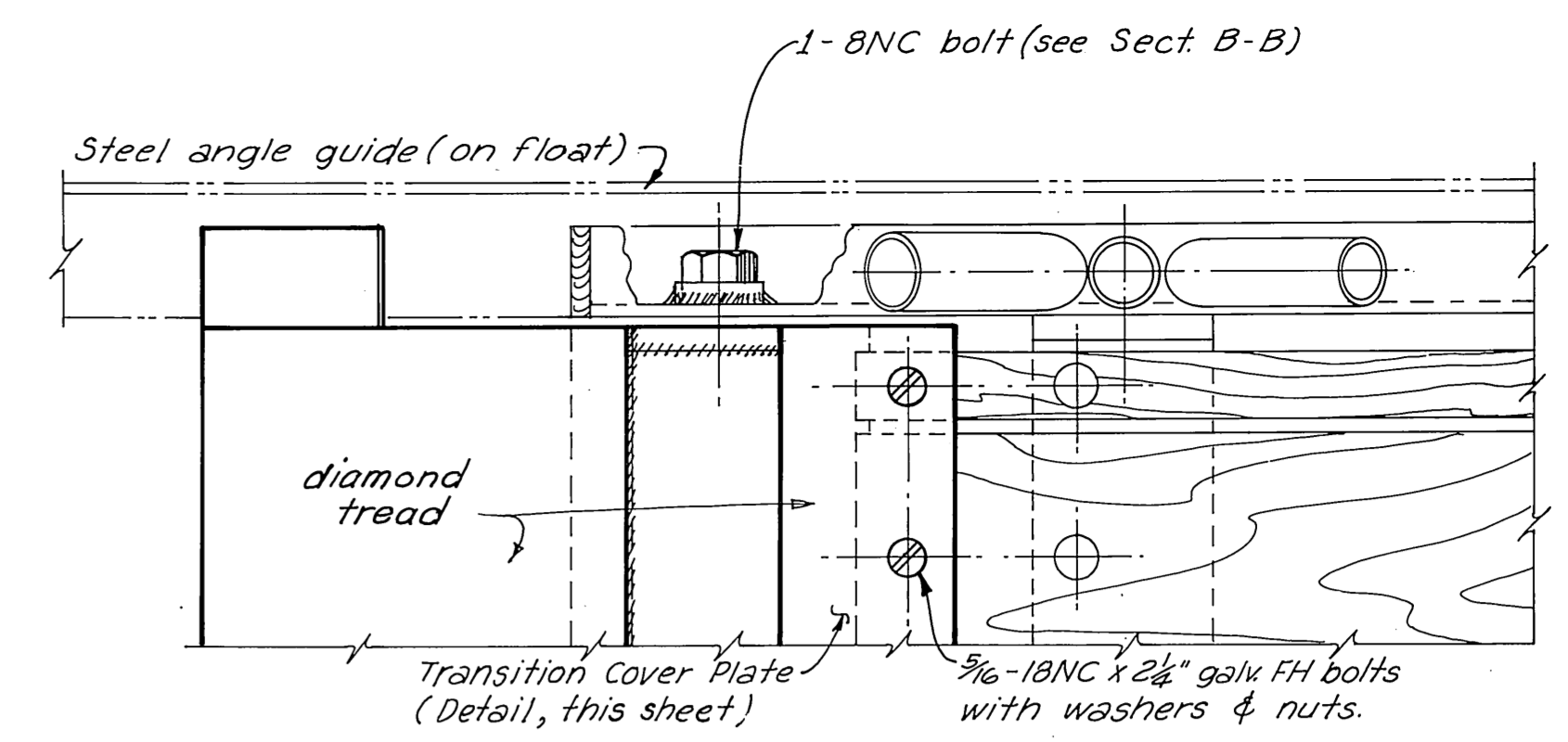
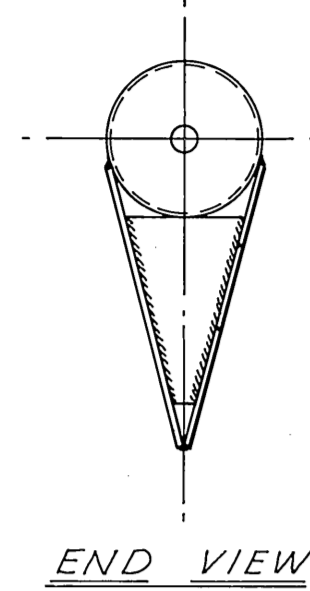
STATE OF ALASKA  
DEPARTMENT OF PUBLIC WORKS  
DIVISION OF WATER AND HARBORS

**AURORA HARBOR**  
TYPICAL STEEL GANGWAY  
CONSTRUCTION DETAILS  
(SHEET A)

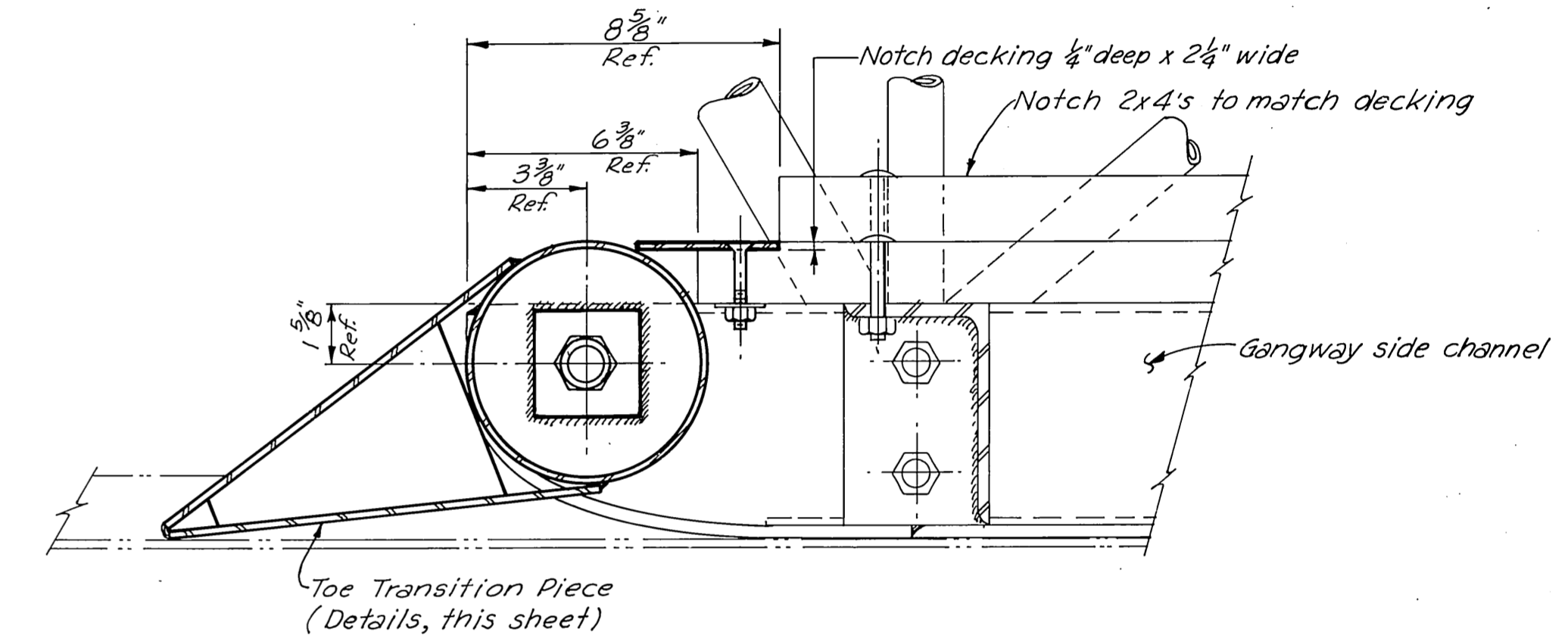
SCALE As shown	SURVEYED	APPROVED
DESIGNED JT/RB	DRAWN JET	Don Statter
CHECKED DSM	DATE Dec. 1970	DIRECTOR
PROJECT NUMBER 3-74180		SHEET 10 OF 11



**PLAN VIEW**  
1/2" = 1'-0"



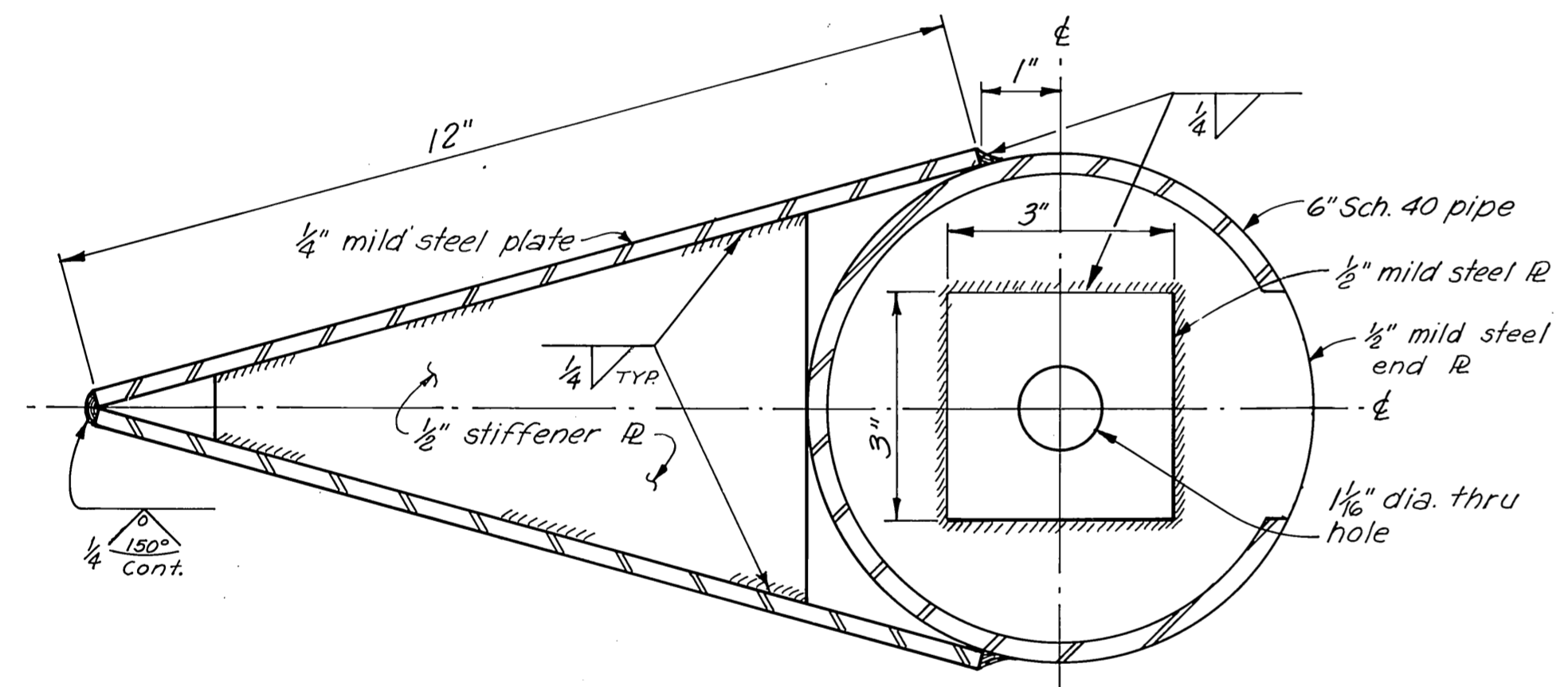
**PLAN**



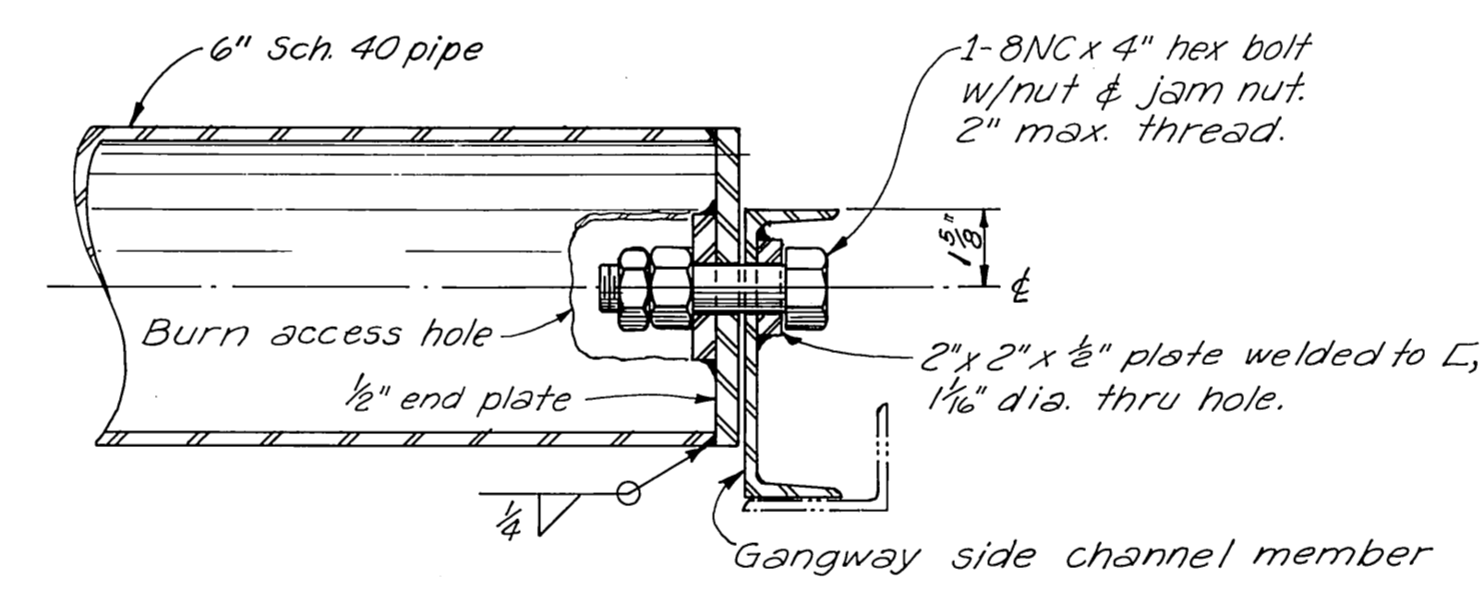
**SECTIONAL ELEVATION**

**ASSEMBLY DETAIL**

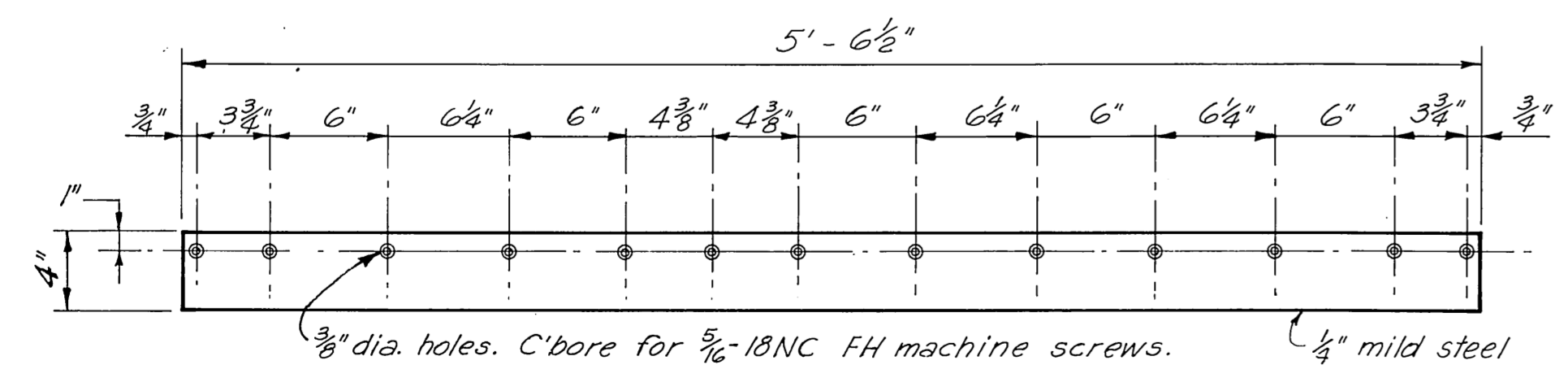
3" = 1'-0"



**SECTION A-A**  
SYMMETRICAL ABT. HORIZ.  $\phi$   
HALF SIZE



**SECTION B-B**  
3" = 1'-0"  
(TYP. EA. END)



**TRANSITION COVER PLATE**  
1/2" = 1'-0"

NOTES:  
For notes pertaining to fabrication and galvanizing, see Sheet A.

<b>As Constructed</b> 10-16-74		
DO NOT SCALE THIS DRAWING - USE DIMENSIONS		
STATE OF ALASKA DEPARTMENT OF PUBLIC WORKS DIVISION OF WATER AND HARBORS		
<b>AURORA HARBOR</b> TYPICAL STEEL GANGWAY TRANSITION PIECE DETAILS (SHEET B)		
SCALE <i>As shown</i>	SURVEYED -	APPROVED
DESIGNED <i>JET</i>	DRAWN <i>JET</i>	<i>Don Statter</i> DIRECTOR
CHECKED <i>DSM</i>	DATE <i>2-11-74</i>	
PROJECT NUMBER <b>3-74180</b>	SHEET <b>11</b> OF <b>11</b>	