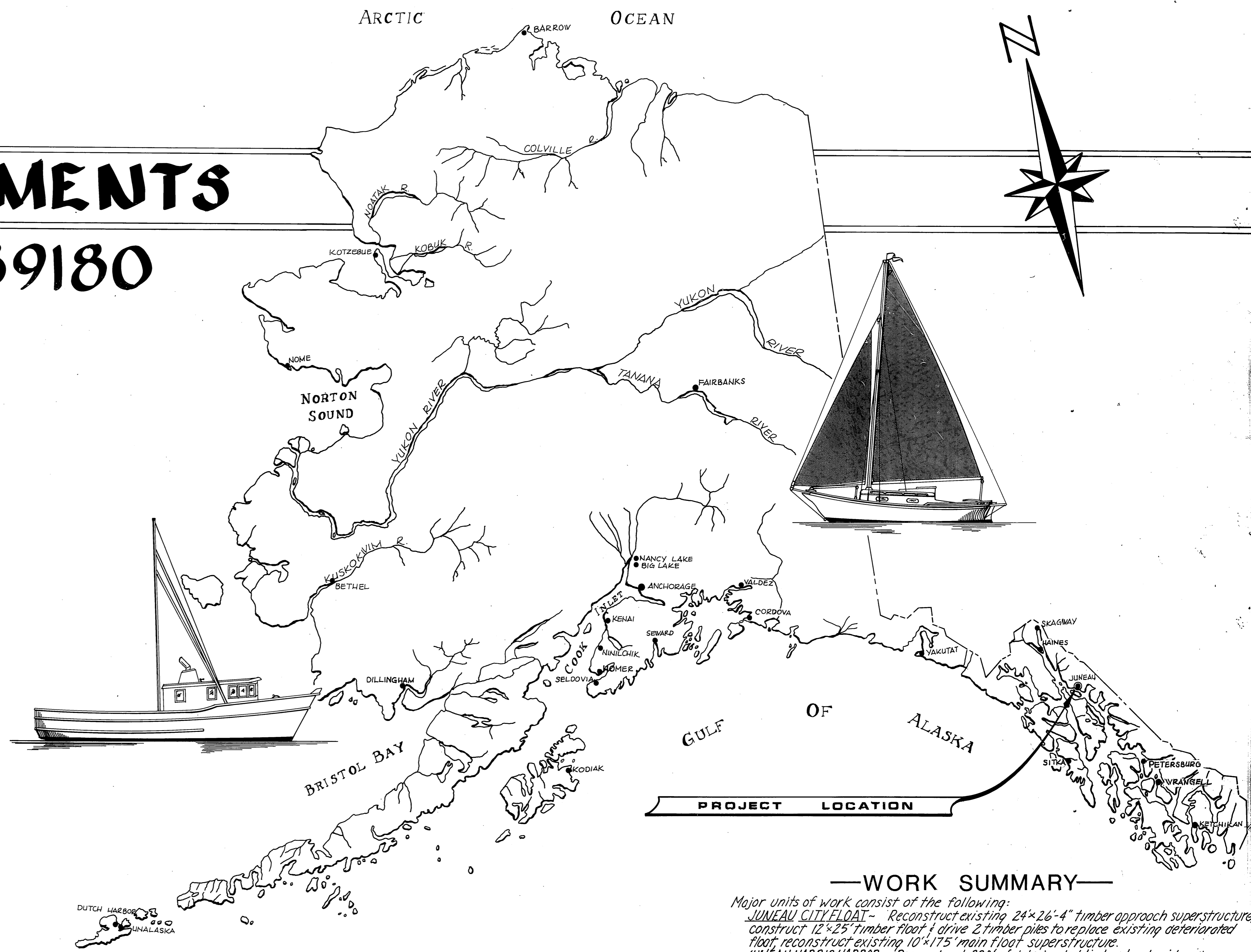


# JUNEAU HARBOR IMPROVEMENTS PROJECT NO. K-39180



—WORK SUMMARY—

Major units of work consist of the following:  
**JUNEAU CITY FLOAT** - Reconstruct existing 24'x26'-4" timber approach superstructure, construct 12'x25' timber float & drive 2 timber piles to replace existing deteriorated float, reconstruct existing 10'x175' main float superstructure.  
**JUNEAU HARRIS HARBOR** - Reconstruct 320' of deteriorated timber boat grid.  
**DOUGLAS HARBOR** - Install new 6'x50' steel gangway, reconstruct superstructure on 13,363 sq. ft. on existing timber floats.

*AS BUILT*

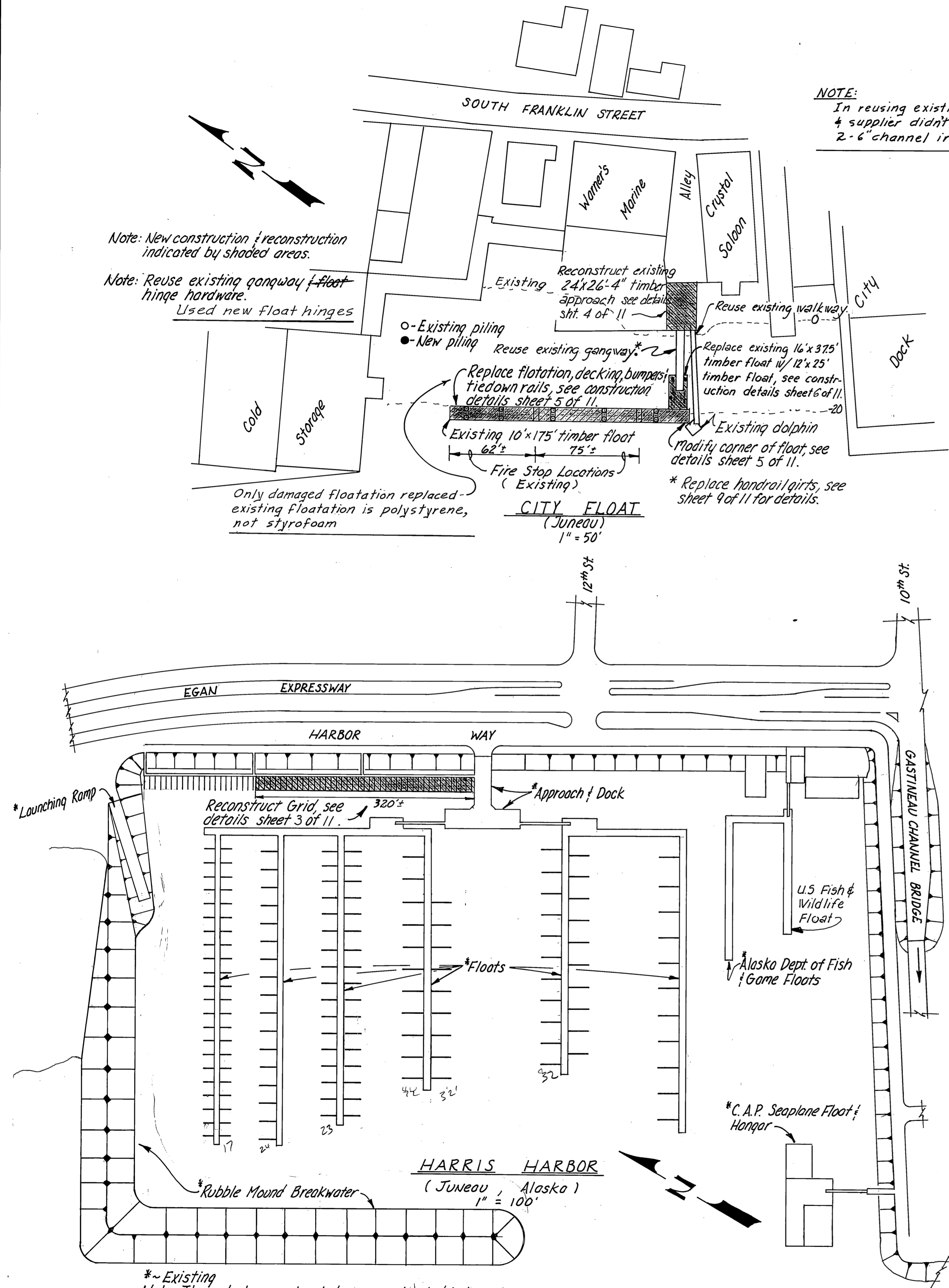
**INDEX TO SHEETS**

1.	TITLE & LOCATION		
2.	PROJECT LAYOUT		
3.	GRID RECONSTRUCTION		
4.	24'-0" APPROACH		
5.	10'-0" TIMBER FLOAT		
6.	12'x25' GANGWAY FLOAT		
7.	6' FLOAT & STALL FLOATS		
8.	16' FLOAT DETAILS		
9.	STEEL GANGWAY (SH. 'A')		
10.	STEEL GANGWAY (SH. 'B')		
11.	MISCELLANEOUS DETAILS		

**STATE  
OF  
ALASKA**

DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES  
**DIVISION OF HARBOR  
 DESIGN & CONSTRUCTION**

**APPROVED**  
*Don Statter*  
 DATE 9/29/78  
 SHEET **1** OF **11**



**NOTE:**  
 In reusing existing gangway, as had wheels on lower end & supplier didn't send gangway float skid plates, used 2-6" channel irons 12' long, untreated, obtained locally

Note: New construction & reconstruction indicated by shaded areas.

Note: Reuse existing gangway float hinge hardware.  
 Used new float hinges

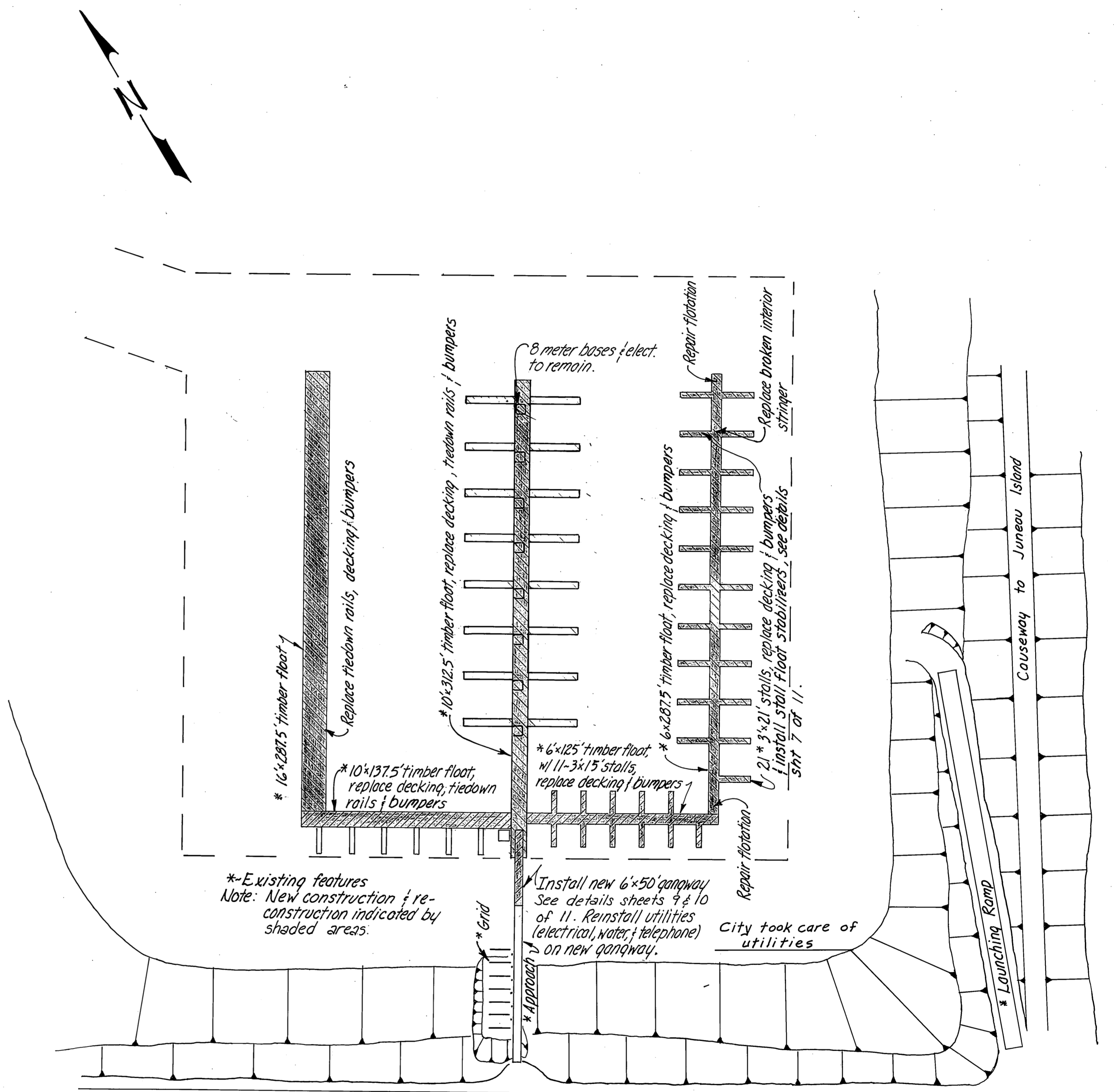
Only damaged flotation replaced - existing flotation is polystyrene, not styrofoam

**CITY FLOAT**  
 (Juneau)  
 1" = 50'

○ Existing piling  
 ● New piling  
 Reuse existing gangway\*  
 Replace existing 16' x 37.5' timber float w/ 12' x 25' timber float, see construction details sheet 6 of 11.  
 Replace existing 10' x 17.5' timber float 6.2' x 7.5' Fire Stop Locations (Existing).  
 Existing dolphin Modify corner of float, see details sheet 5 of 11.  
 \* Replace handrail girts, see sheet 9 of 11 for details.

Reconstruct Grid, see details sheet 3 of 11.

\* Existing  
 Note: Items to be constructed or reconstructed indicated by shaded areas.



\* Existing features  
 Note: New construction & reconstruction indicated by shaded areas.

Install new 6x50 gangway  
 See details sheets 9 & 10 of 11. Reinstall utilities (electrical, water, telephone) on new gangway.

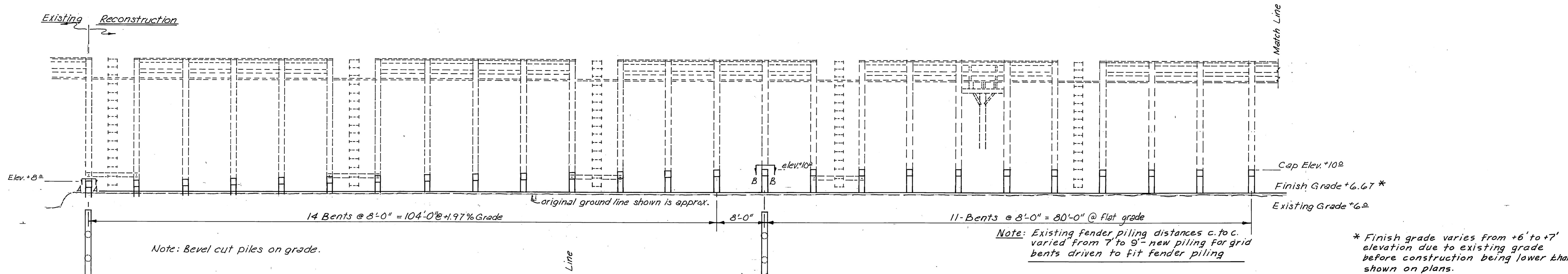
City took care of utilities

**DOUGLAS SMALL BOAT HARBOR**  
 (DOUGLAS, ALASKA)  
 1" = 50'

**AS BUILT**

STAMP		DO NOT SCALE THIS DRAWING - USE DIMENSIONS	
		STATE OF ALASKA DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES DIVISION OF HARBOR DESIGN AND CONSTRUCTION	
		PROJECT LAYOUT	
SCALE <i>As Noted</i>	SURVEYED	APPROVED	
DESIGNED	DRAWN <i>JAL</i>	Don Statter DIRECTOR	
CHECKED <i>RPB</i>	DATE <i>JUNE 1978</i>		
PROJECT NUMBER <i>K-39180</i>	SHEET <i>2</i> OF <i>11</i>		

Note: New construction begins 21 bents from northend of existing grid.

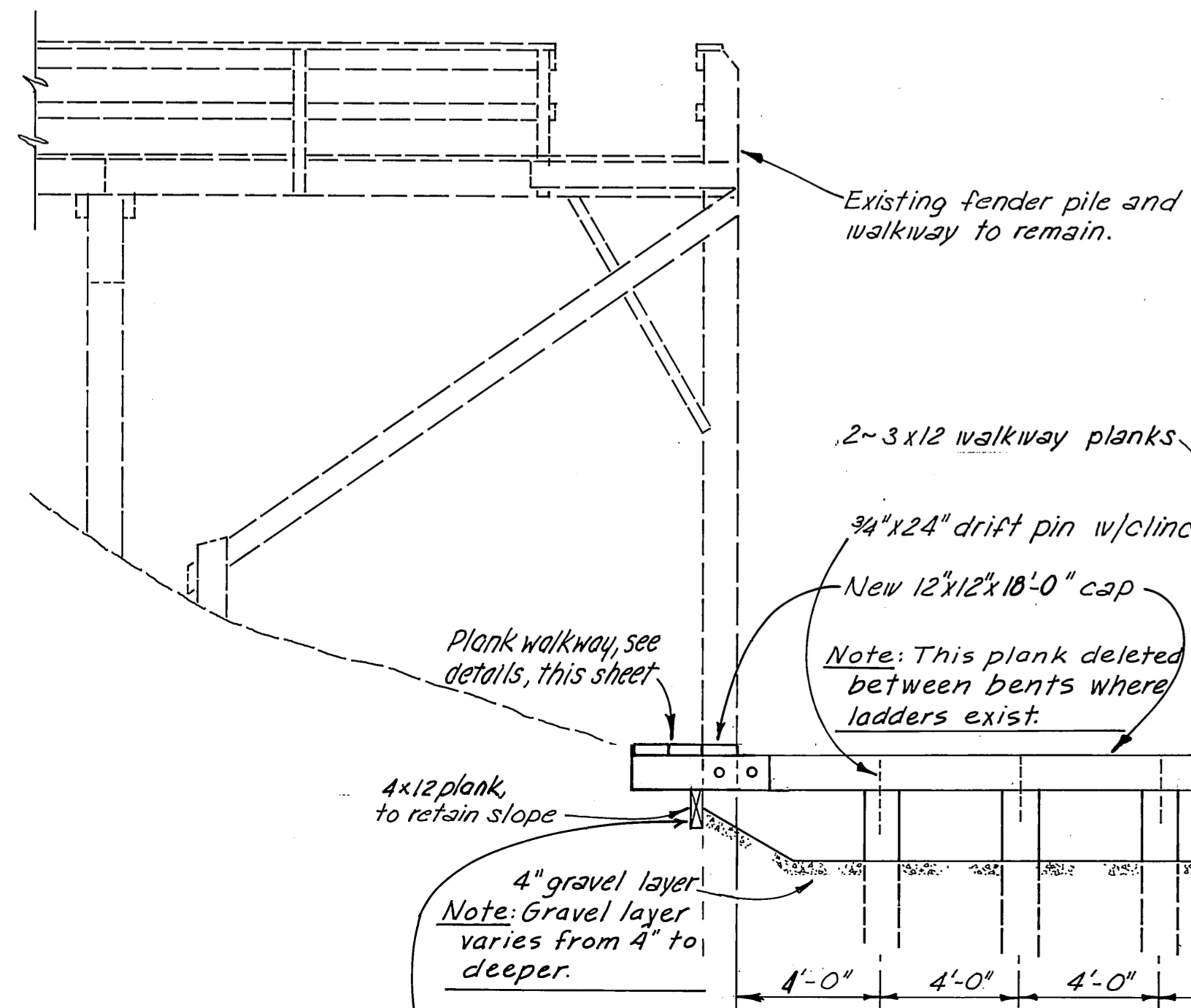


SECTION A-A  
Begin

GRID ELEVATION  
1/8" = 1'-0"

SECTION B-B  
Begin

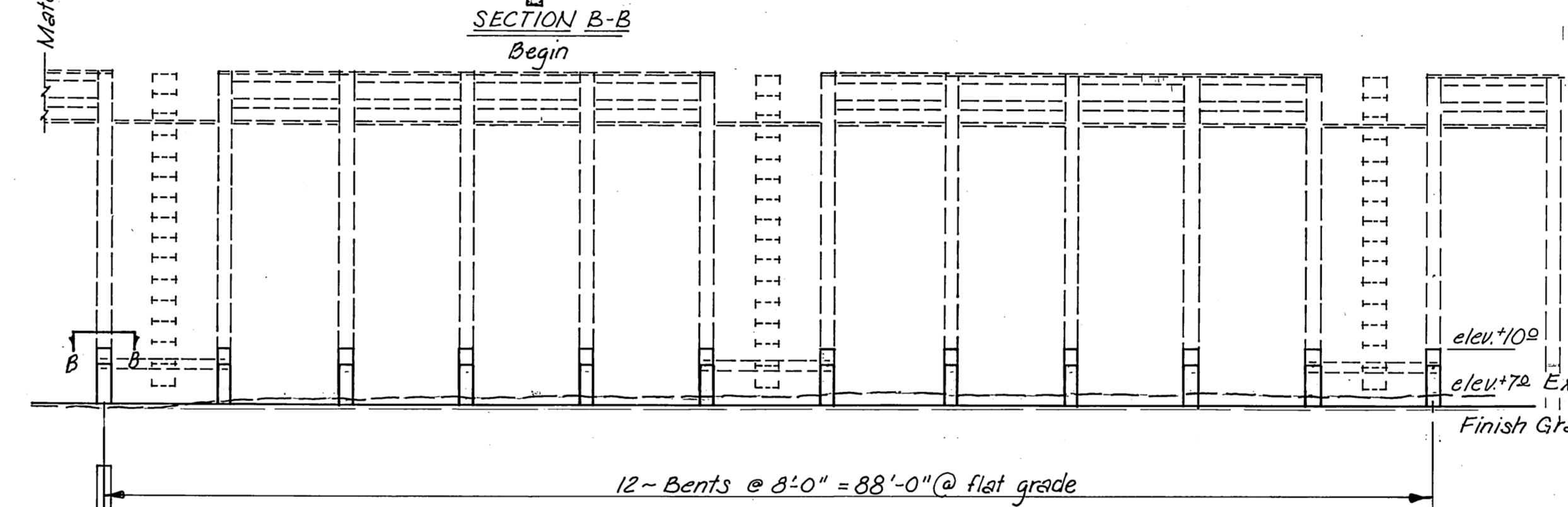
\* Finish grade varies from +6' to +7' elevation due to existing grade before construction being lower than shown on plans.



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

NOTE: Additional planking added below original one in areas where needed to block up holes.

Match Line



SECTION B-B

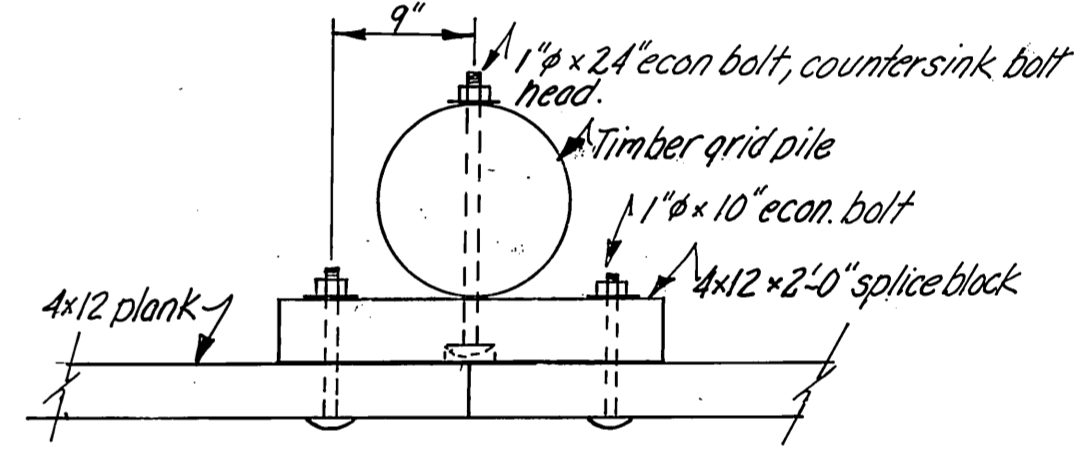
DETAIL  
Walkway Support Timbers  
1" = 1'-0"

ELEVATION OF SECTION B-B  
1/4" = 1'-0"

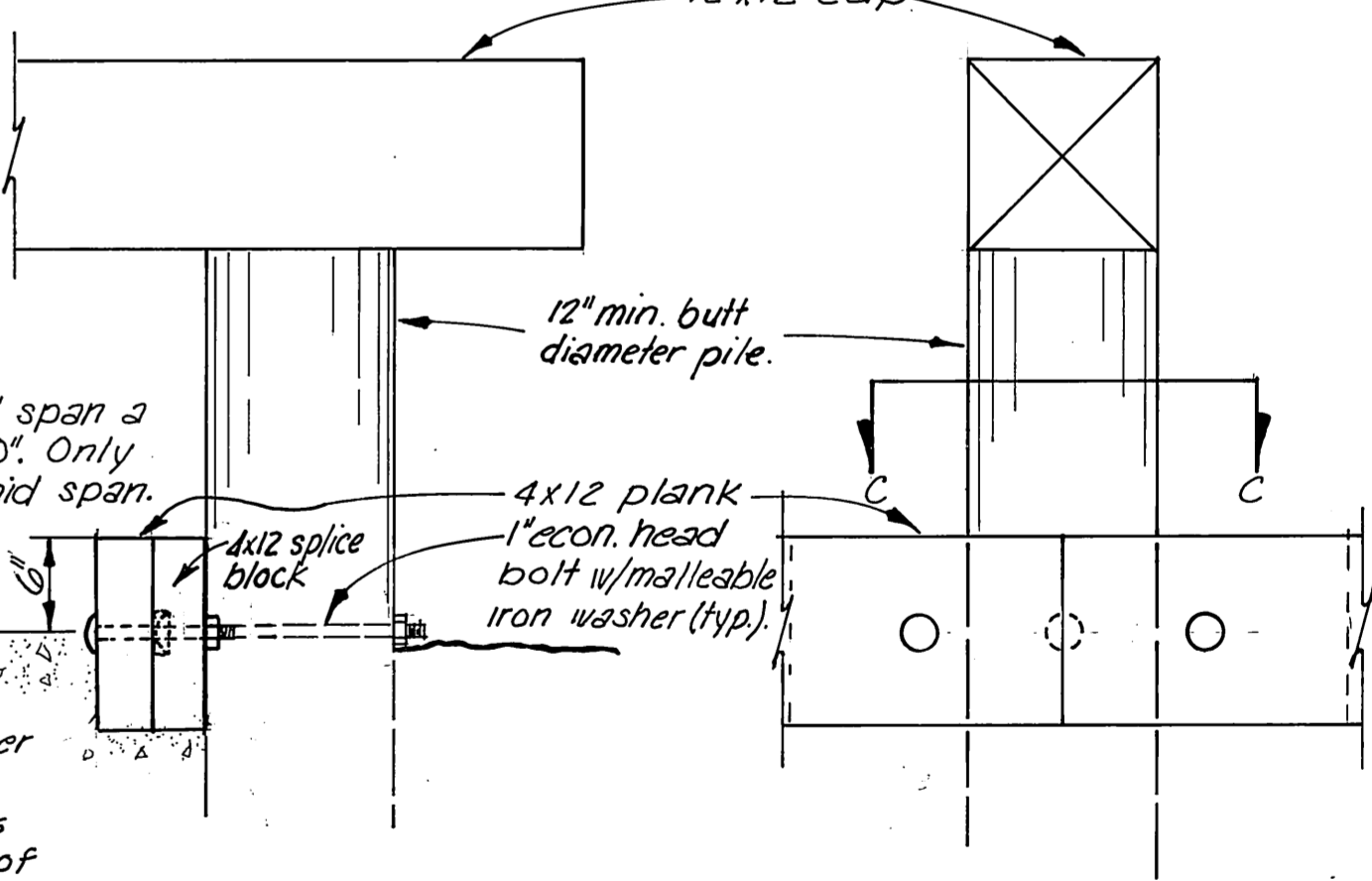
Note: Each plank shall span a minimum of 16'-0". Only one bolt req'd @ mid span.

Note: Used economy head bolts w/ no threads in place of drifts

Note: existing pile to remain in place and be cut 6" above finish grade. Removed, unnecessary



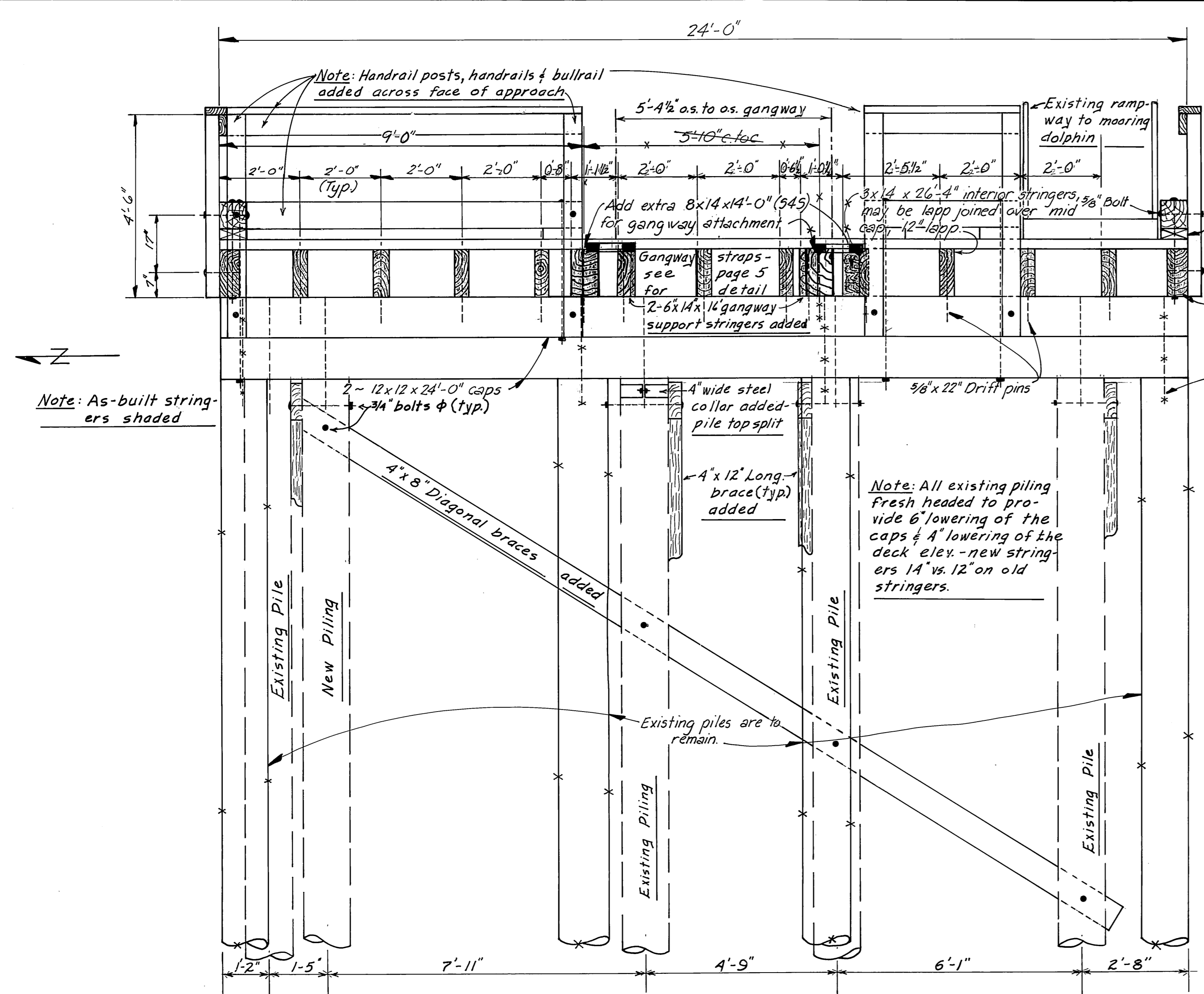
Sectional Plan C-C  
1" = 1'-0"



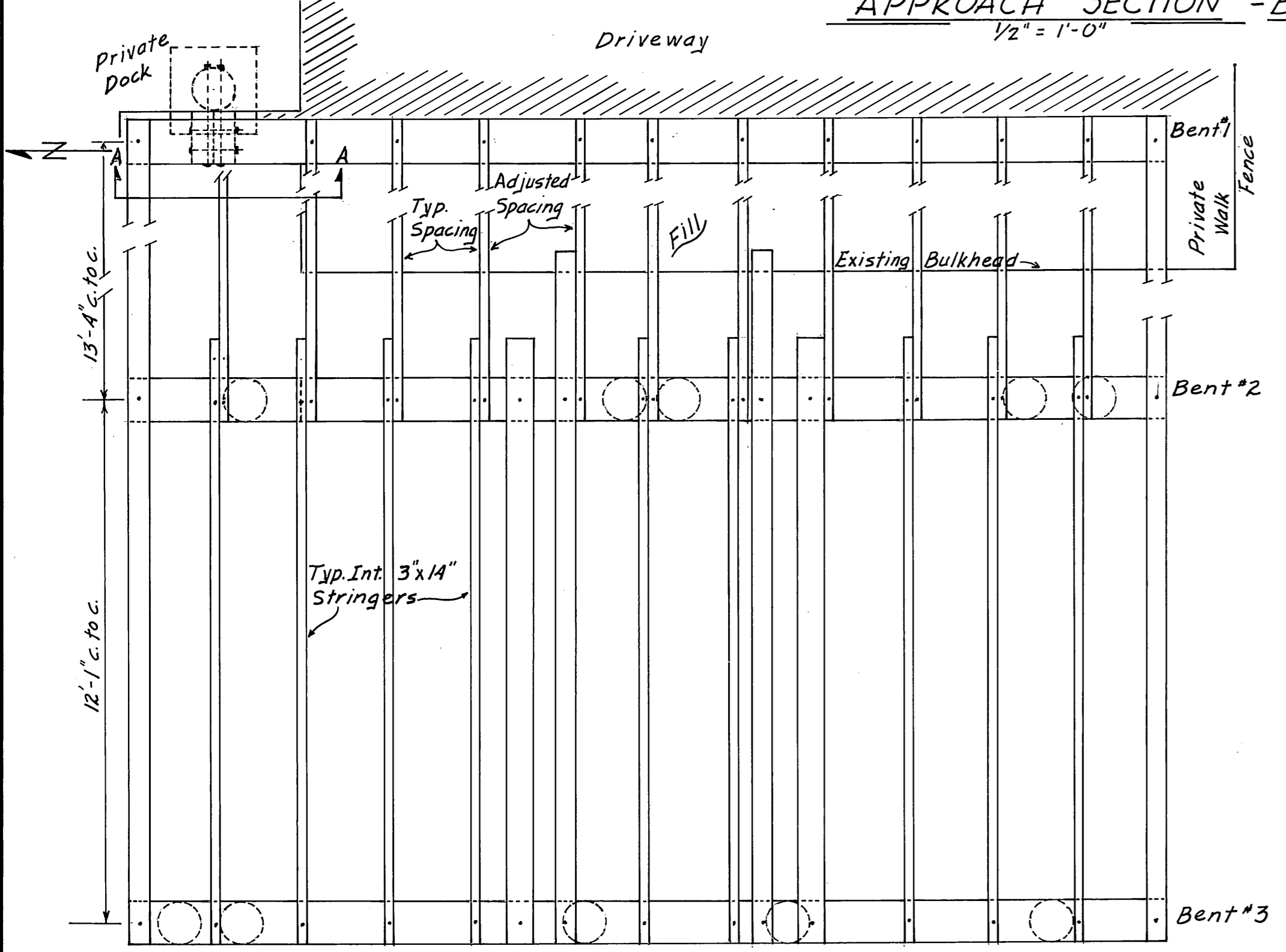
Connection Detail @ 4x12 Plank to outside pile  
Scale 1" = 1'-0"

AS BUILT

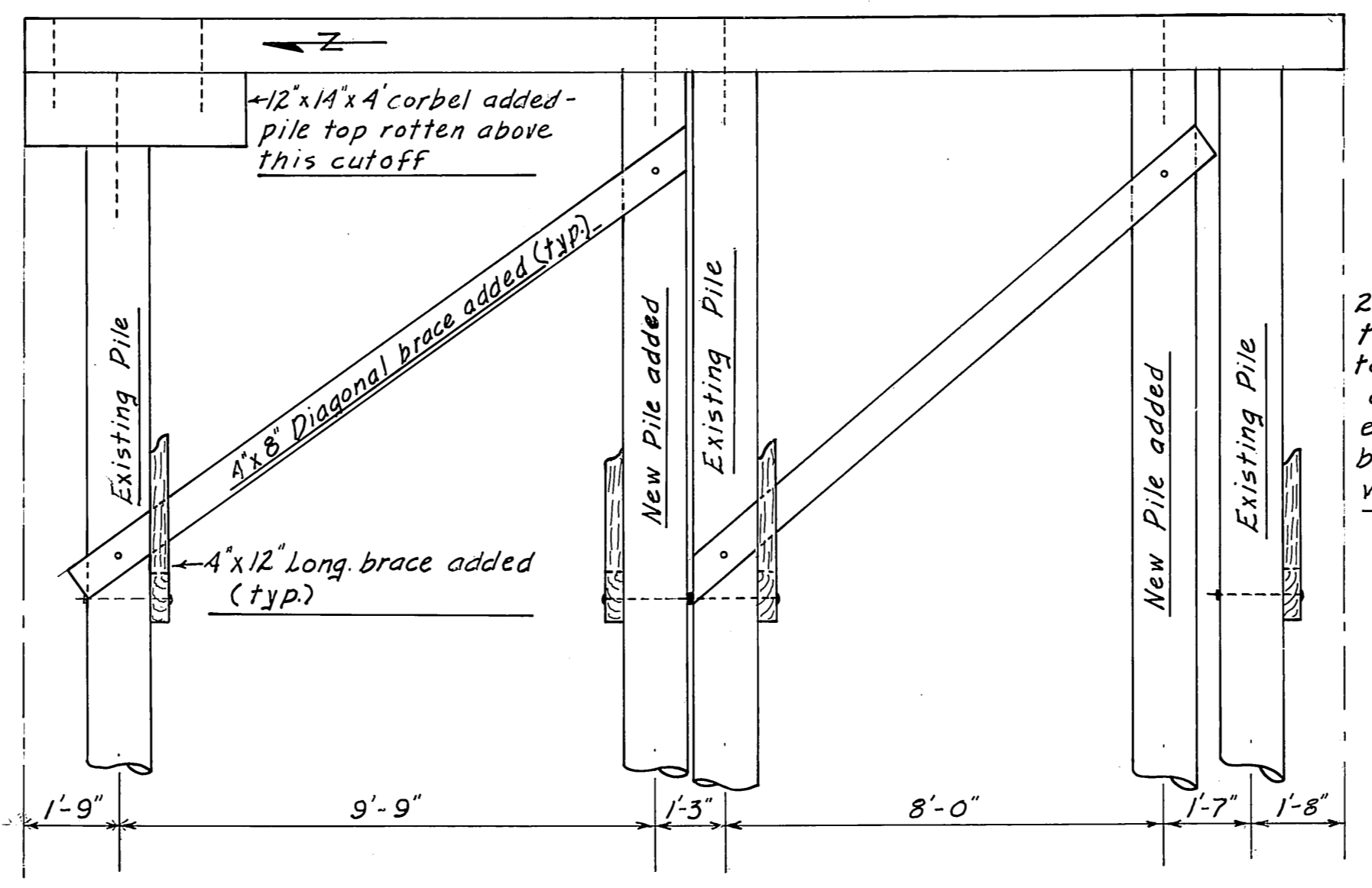
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		STATE OF ALASKA DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES DIVISION OF HARBOR DESIGN AND CONSTRUCTION	
		Harris Harbor Juneau, Alaska	
GRID RECONSTRUCTION		SCALE: As Noted	SURVEYED: _____
DESIGNED: JL	DRAWN: GRF	CHECKED: RPB	DATE: June 1978
PROJECT NUMBER: K-39180		APPROVED: Don Statter, DIRECTOR	
		SHEET 3 OF 11	



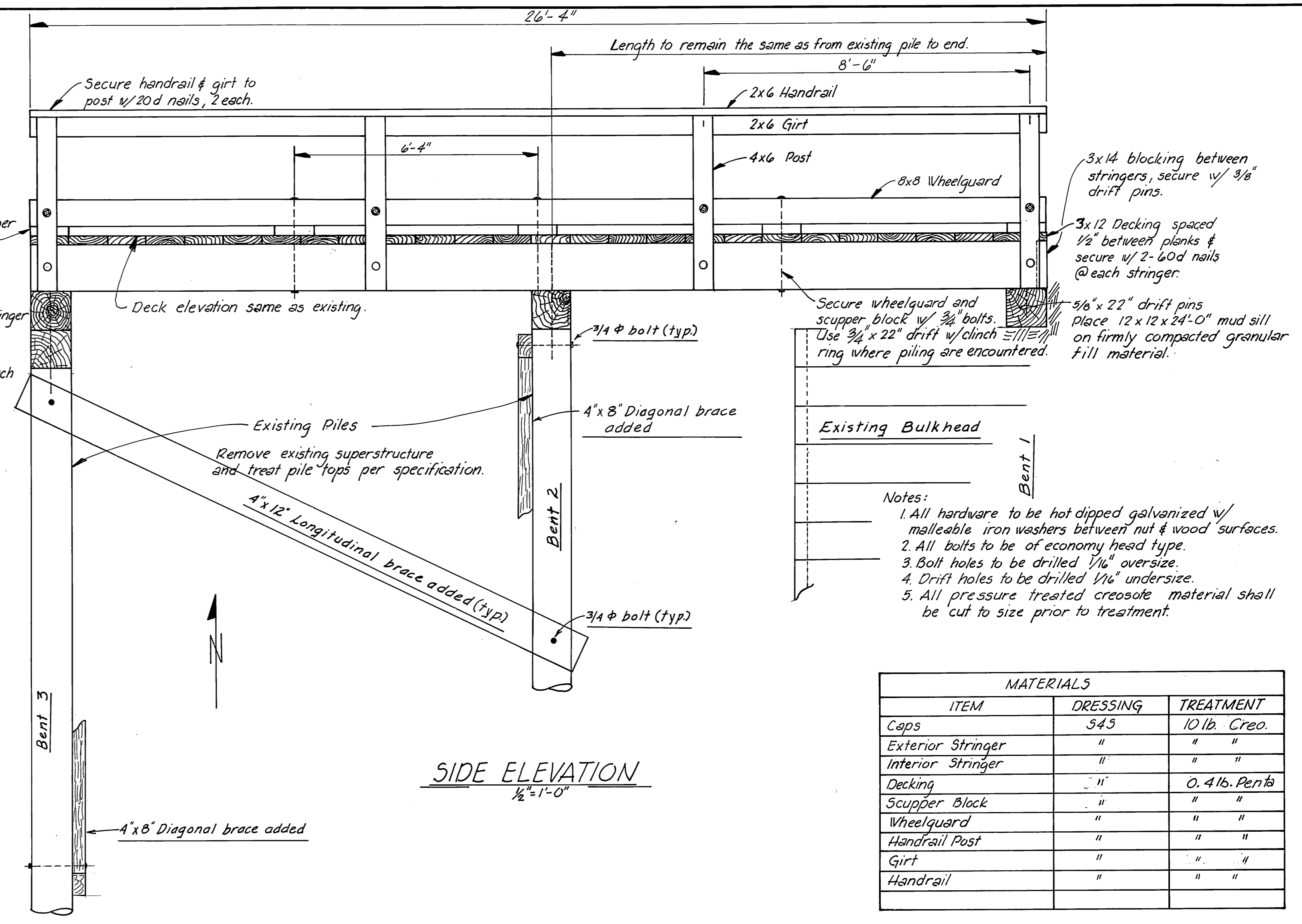
APPROACH SECTION - BENT 3  
1/2" = 1'-0"



APPROACH ELEVATION  
3/8" = 1'-0"



APPROACH SECTION - BENT 2  
3/8" = 1'-0"



SIDE ELEVATION  
1/2" = 1'-0"

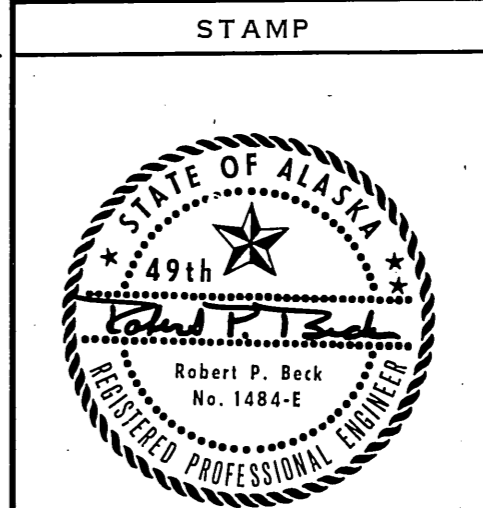
MATERIALS		
ITEM	DRESSING	TREATMENT
Caps	545	10 lb. Creo.
Exterior Stringer	"	"
Interior Stringer	"	"
Decking	"	0.4 lb. Pento
Scupper Block	"	"
Wheelguard	"	"
Handrail Post	"	"
Girt	"	"
Handrail	"	"

All material to be Dense No. 1 grade Douglas Fir.

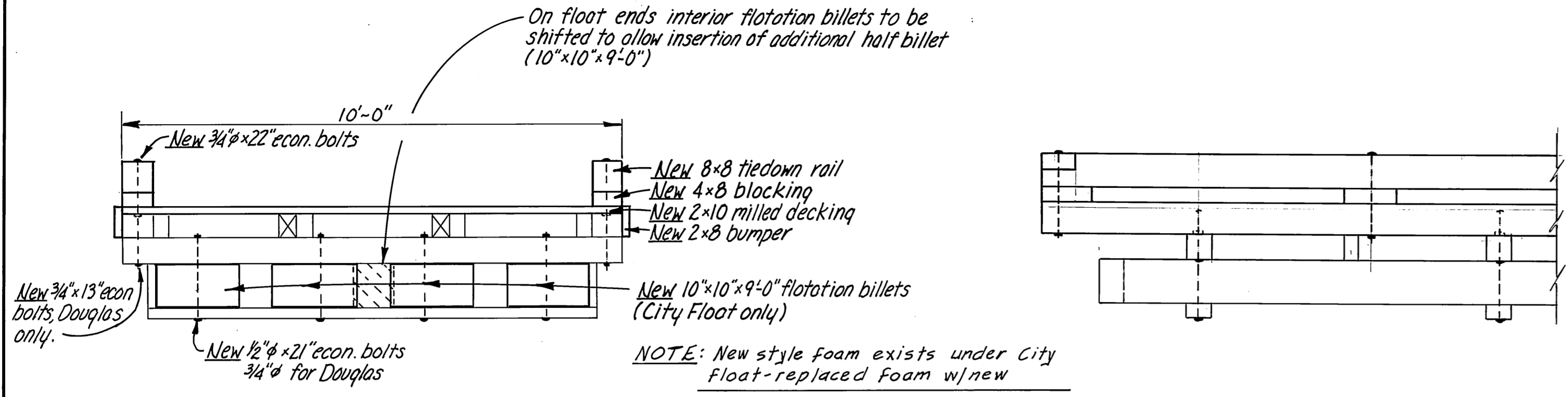
- FIELD DRILLED BOLT HOLES**  
Caps - All drift bolt holes.  
Exterior Stringers - Handrail post holes.  
Wheelguards - Handrail post holes.
- PREDRILLED BOLT HOLES**  
Interior Stringers - All drift bolt holes  
Wheelguards - Stringer bolt holes  
Handrail Posts - All holes

AS BUILT

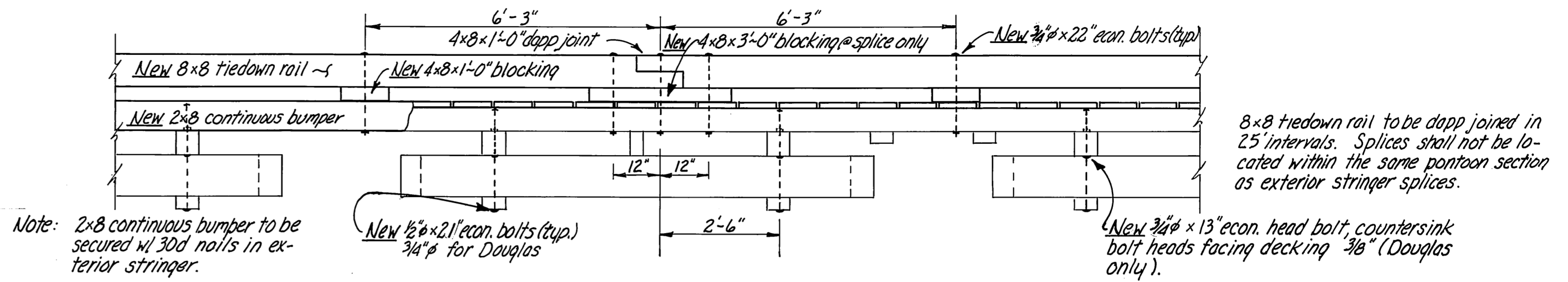
DETAIL "A-A"  
this page  
"Approach Elevation"  
1/2" = 1'-0"



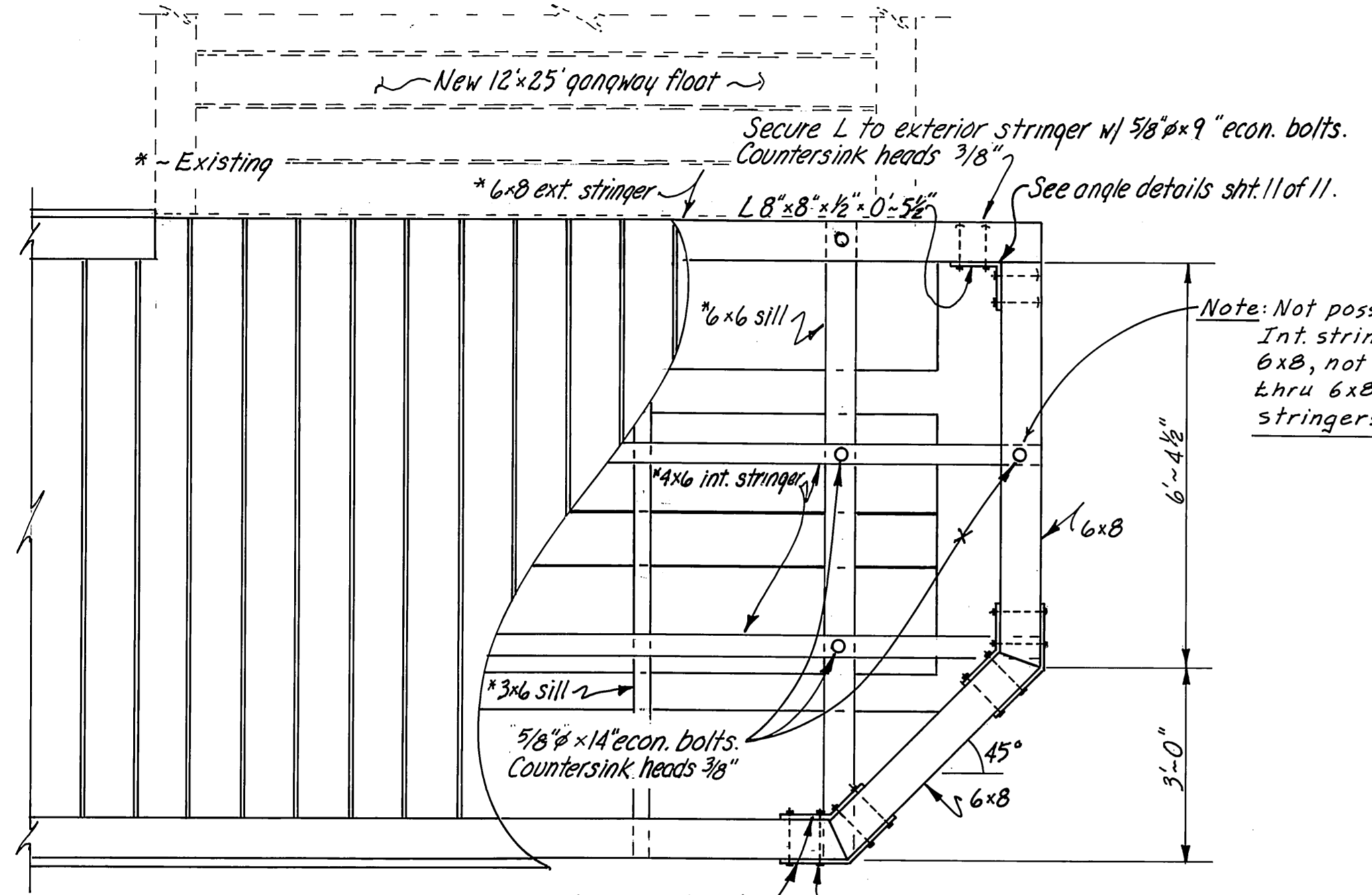
DO NOT SCALE THIS DRAWING - USE DIMENSIONS		
STATE OF ALASKA DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES DIVISION OF HARBOR DESIGN AND CONSTRUCTION		
<b>24'-0" APPROACH CONSTRUCTION DETAILS</b>		
SCALE: As Noted	SURVEYED: ~	APPROVED: ~
DESIGNED: ~	DRAWN: JTM	Don Statter DIRECTOR
CHECKED: JL/RB	DATE: AUG 30, 1978	
PROJECT NUMBER: K-39180	SHEET 4 OF 11	



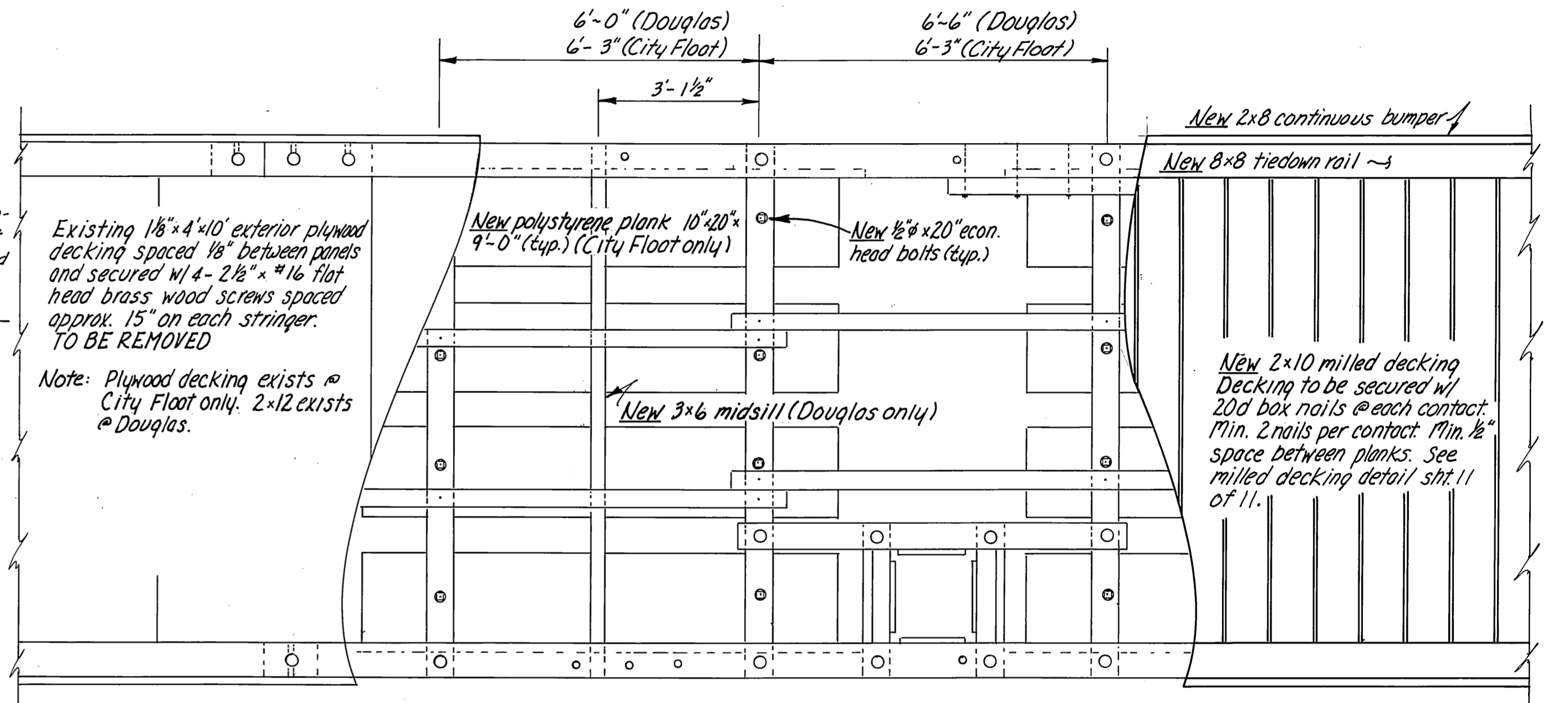
10' FLOAT - SECTION



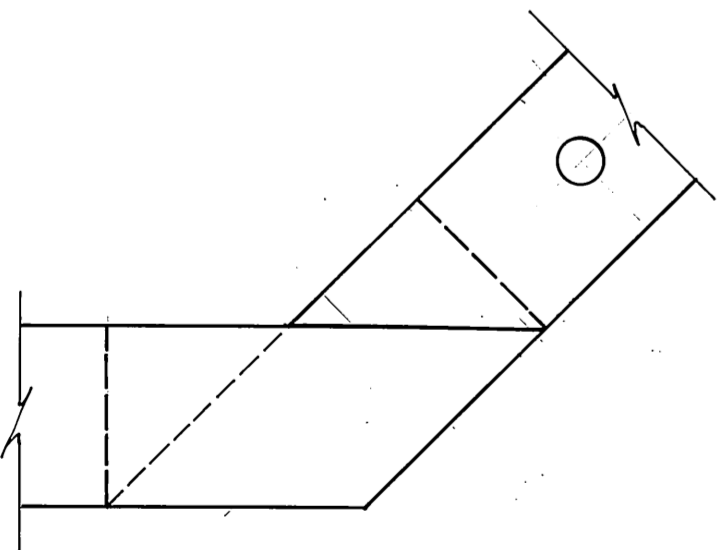
ELEVATION - 10' FLOAT



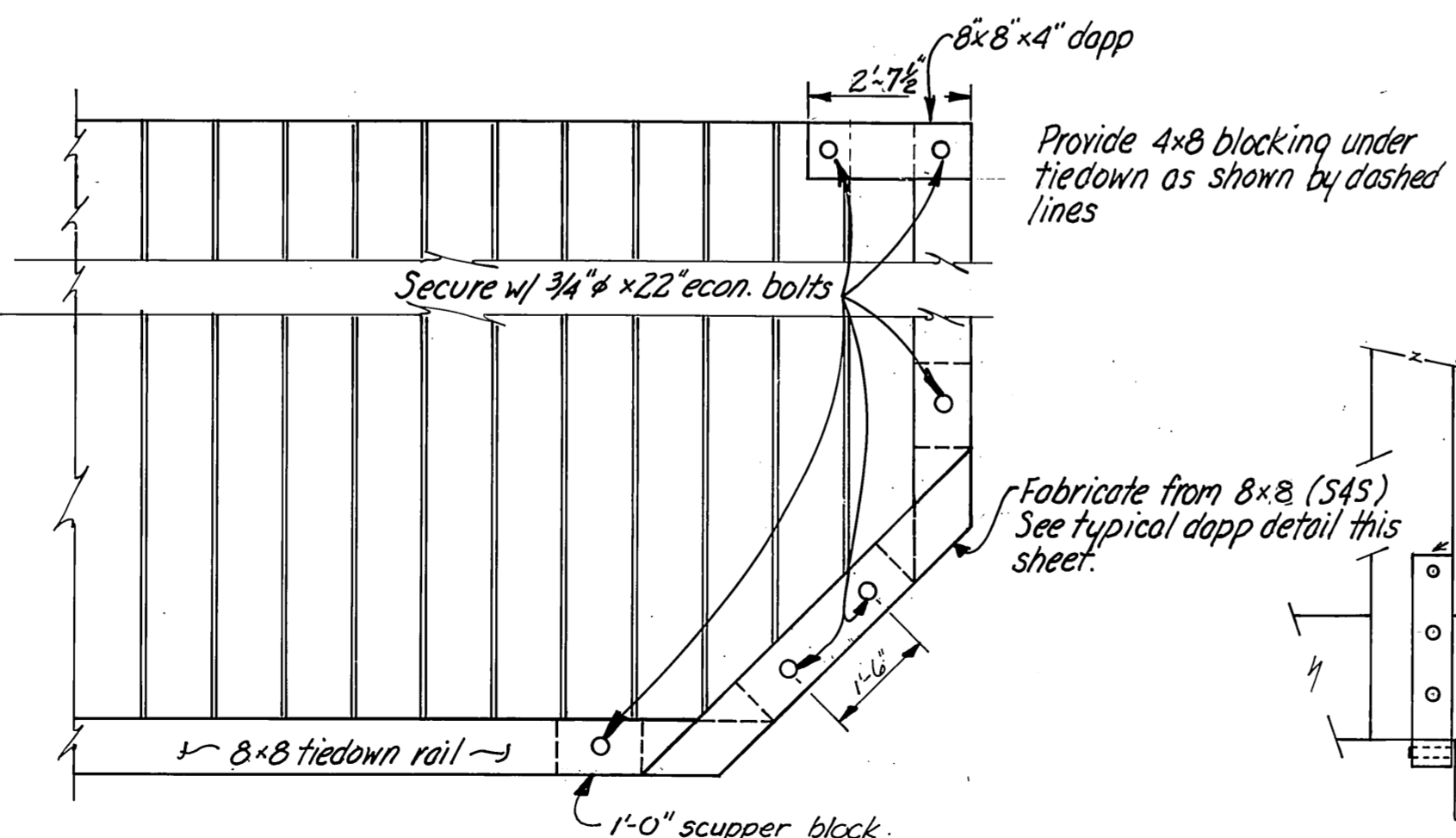
MODIFIED FLOAT END - 10' FLOAT (CITY FLOAT)



PLAN VIEW - 10' FLOAT



TYPICAL DAPP JOINT MOD. TIEDOWN RAIL



MODIFIED TIEDOWN RAIL - 10' FLOAT (CITY FLOAT)

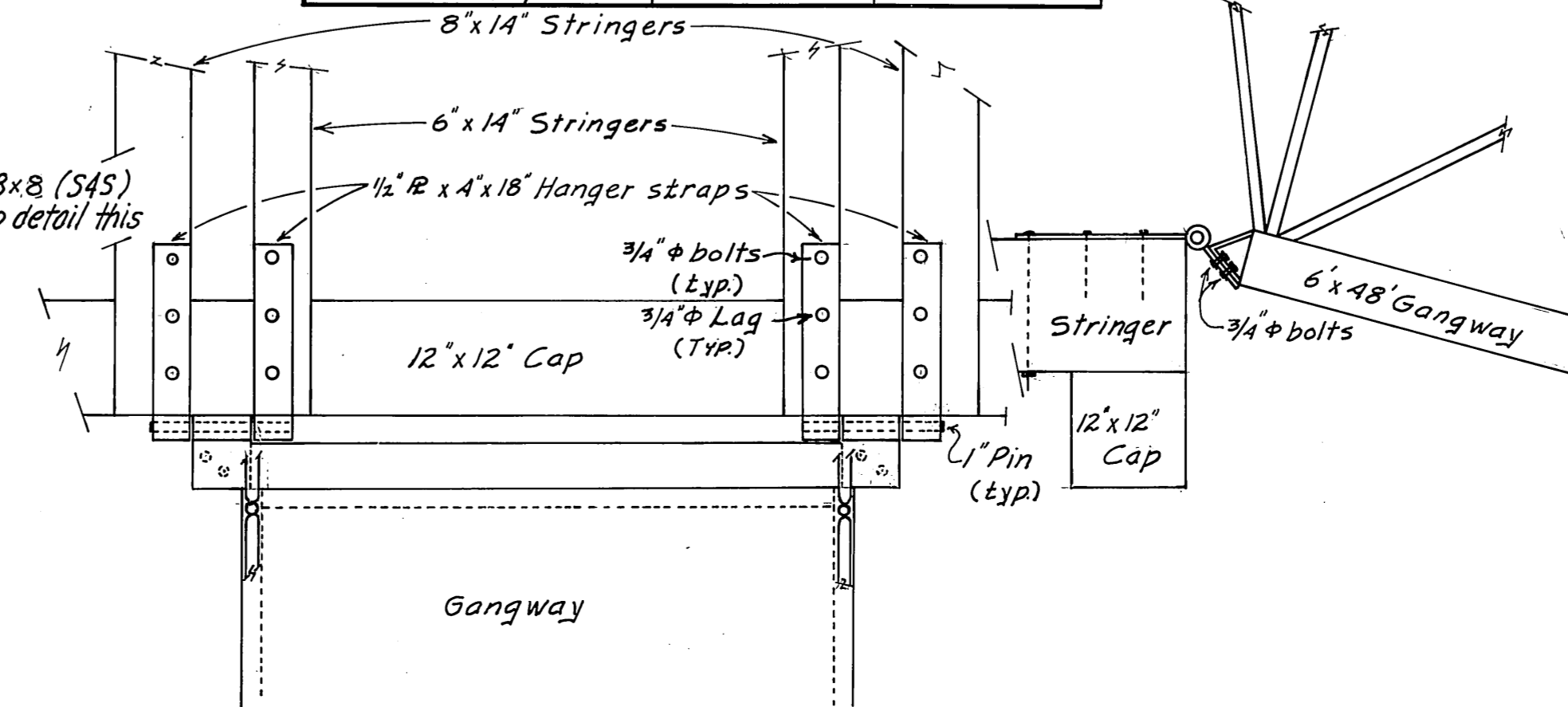
MATERIALS		
Item	Dressing	Treatment
8x8 Tiedown Rail	S4S	0.4 lb Penta
4x8 Blocking	"	"
2x8 Bumper	"	"
3x6 Midsill	"	10 lb creos. (LP-55)
6x8 Exterior Stringer	"	"
2x10 Decking	Milled	0.4 lb Penta

PRE-DRILLED BOLT HOLES

Tiedown Rails - all holes (Desirable, however, contr. may field drill)  
 FIELD DRILLED BOLT HOLES  
 Tiedown rail blocking

NOTES:

All hardware to be hot dipped galvanized. A malleable iron washer shall be placed between all nut and wood surfaces. All bolts shall be the economy headed type. Bolt holes shall be drilled 1/16" oversize. All field drill holes shall be treated with hot creosote oil. All pressure treated material shall be cut to size prior to treatment. Tiedown rails shall extend across all float ends. All bolt heads facing decking shall be countersunk 3/8" prior to treatment (field). A barrier of 4 mil black polyethylene shall be placed between the contact surfaces of all creosote treated timber and flotation material (except float sliding members).



EXISTING CITY FLOAT GANGWAY DETAILS

AS BUILT

STAMP

DO NOT SCALE THIS DRAWING - USE DIMENSIONS

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

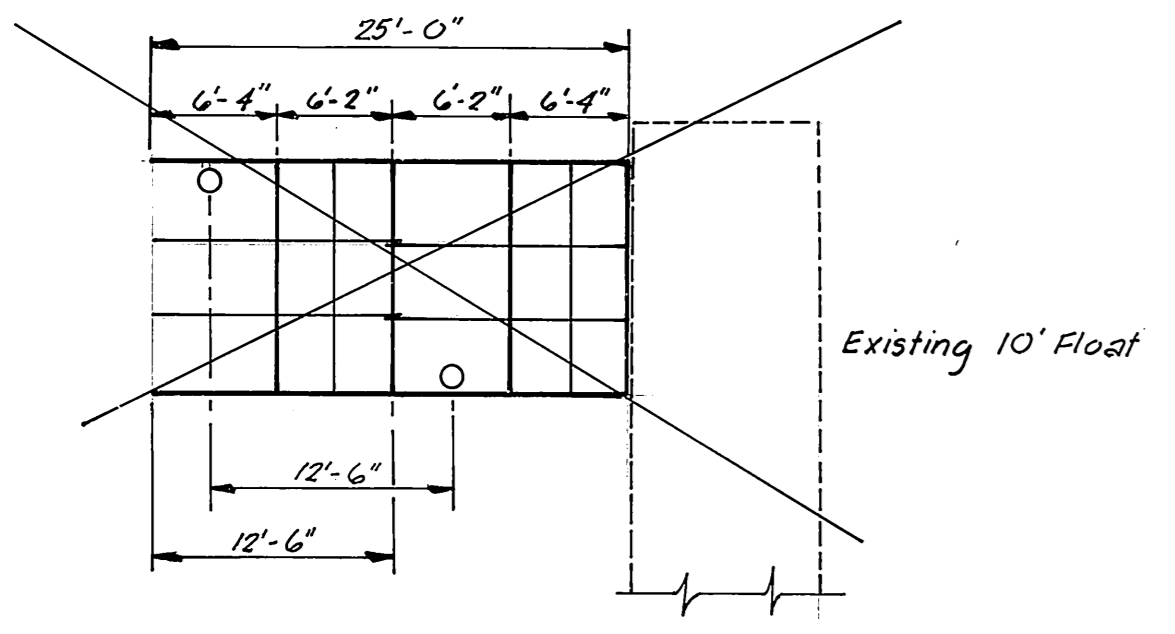
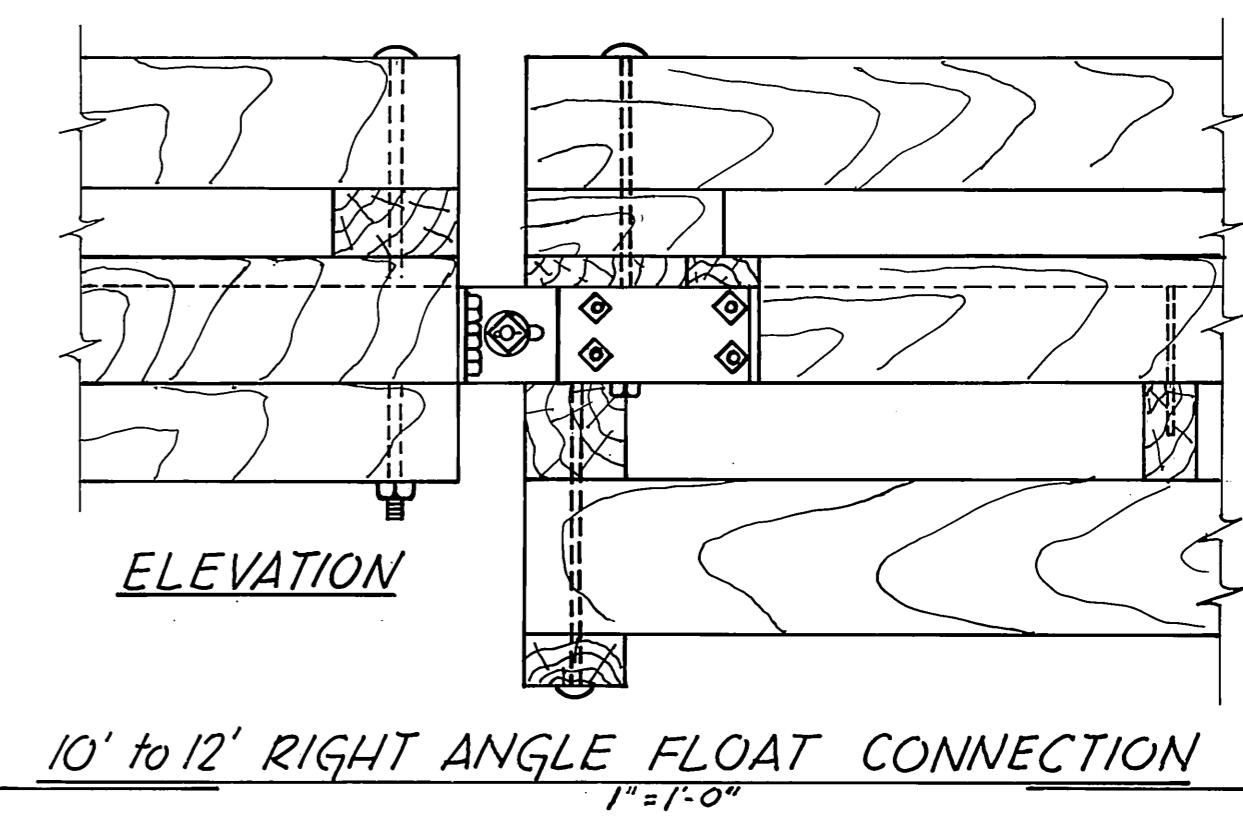
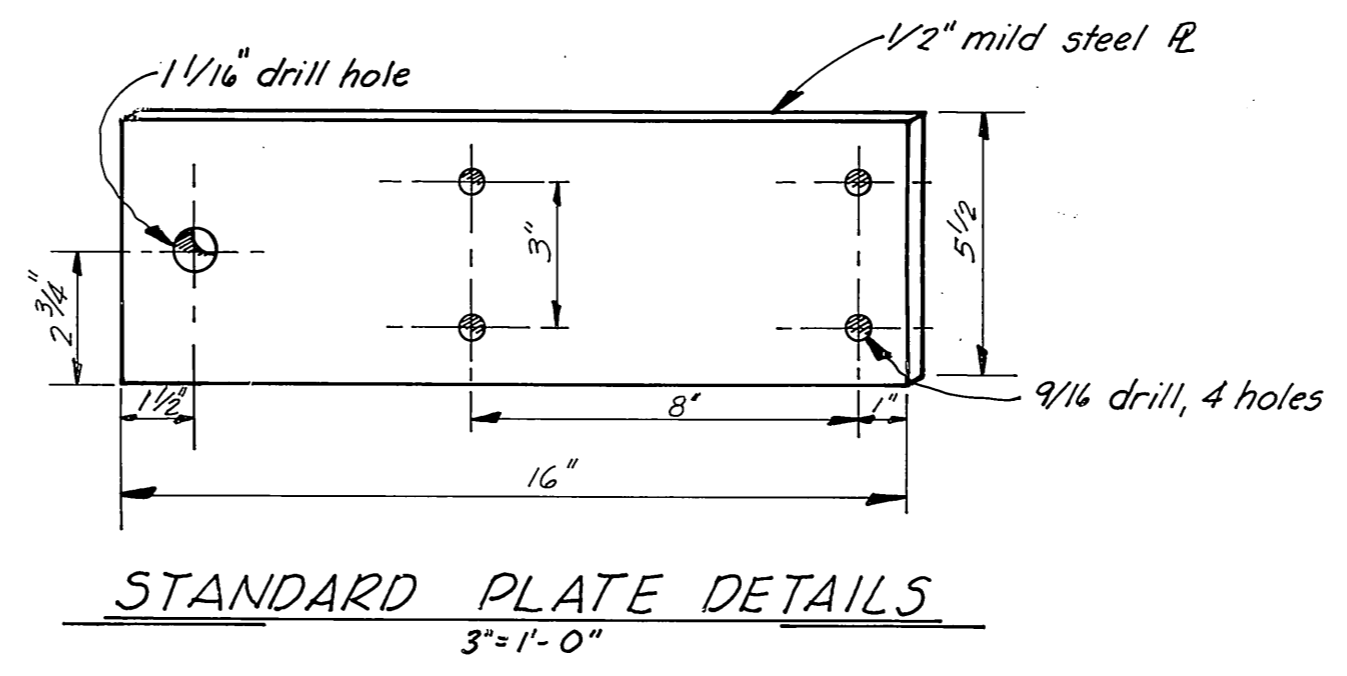
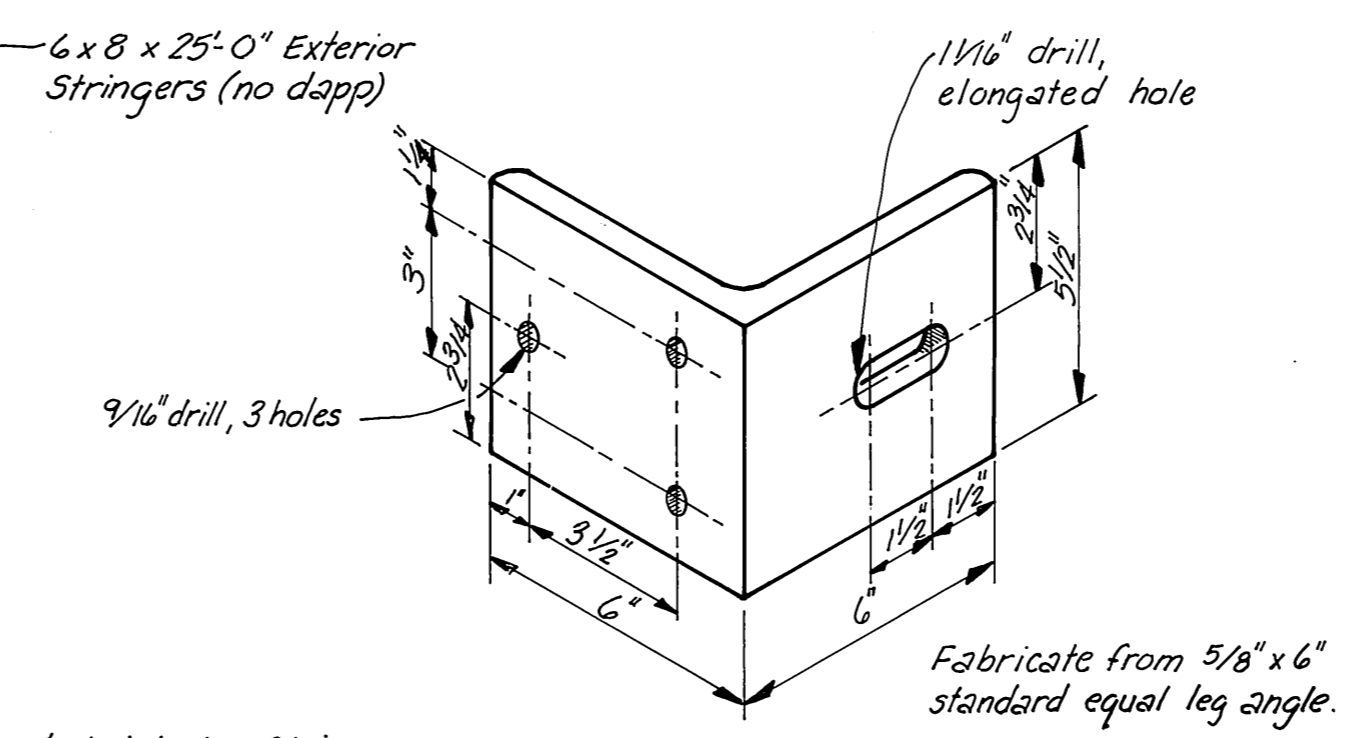
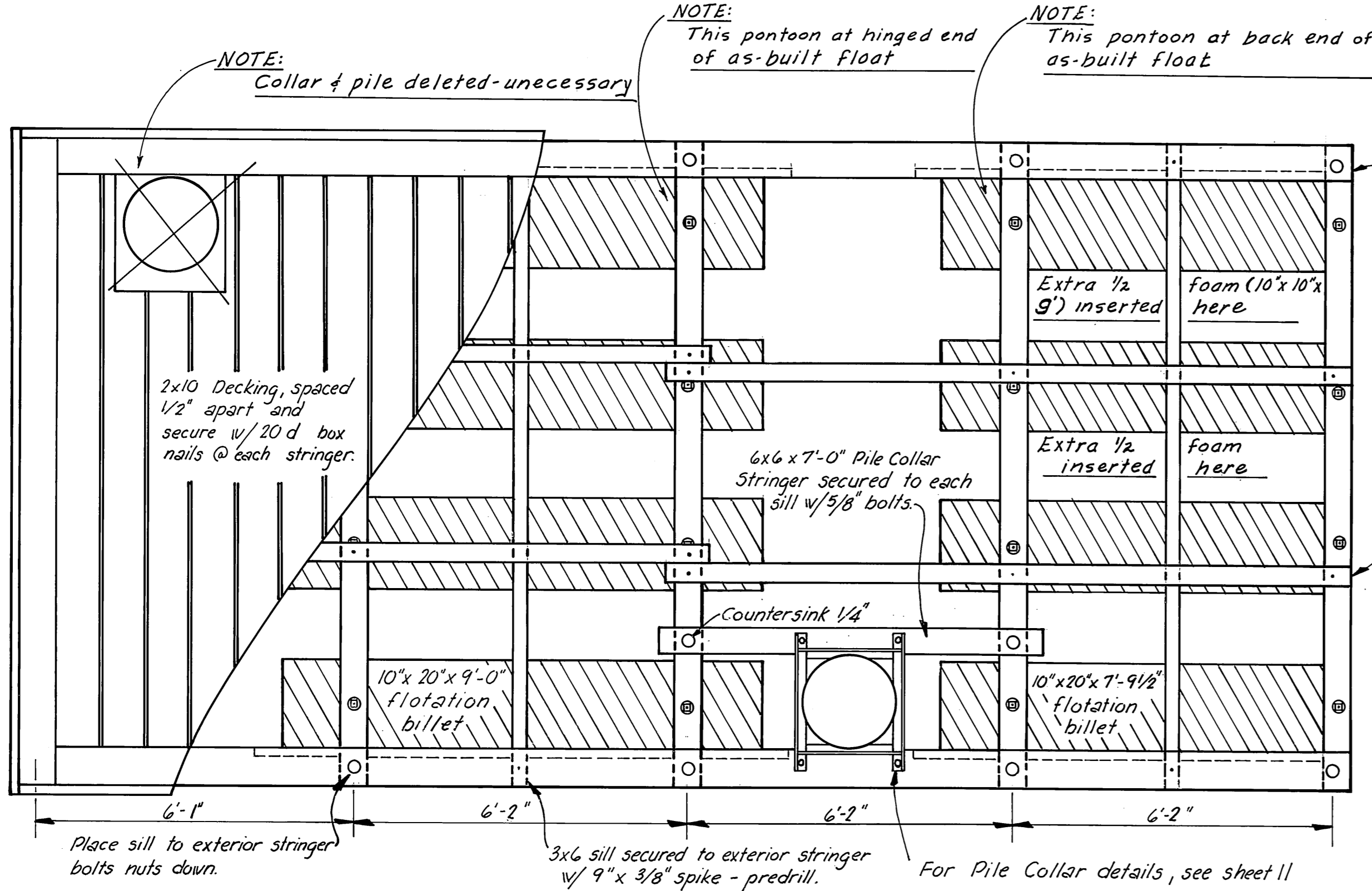
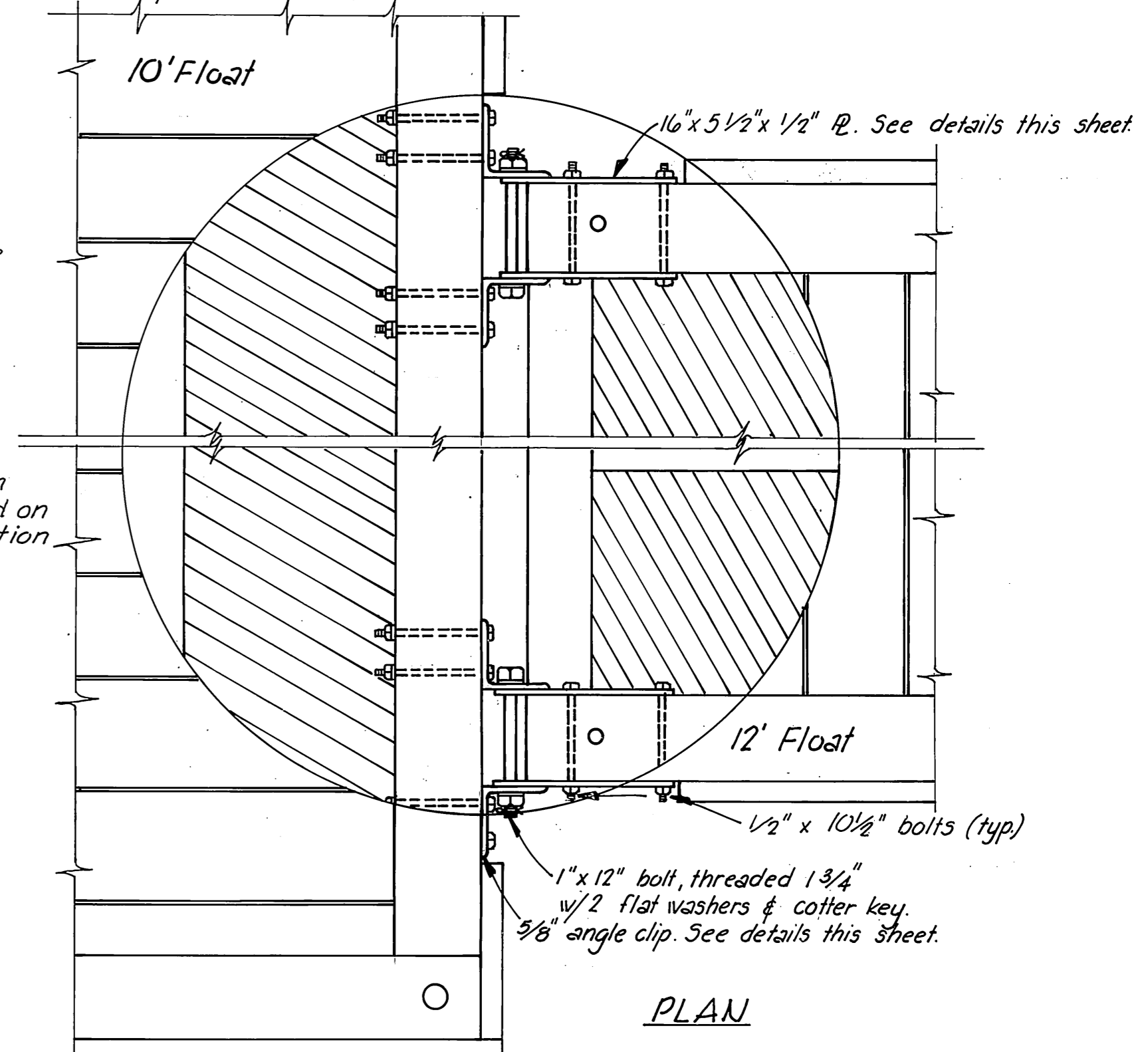
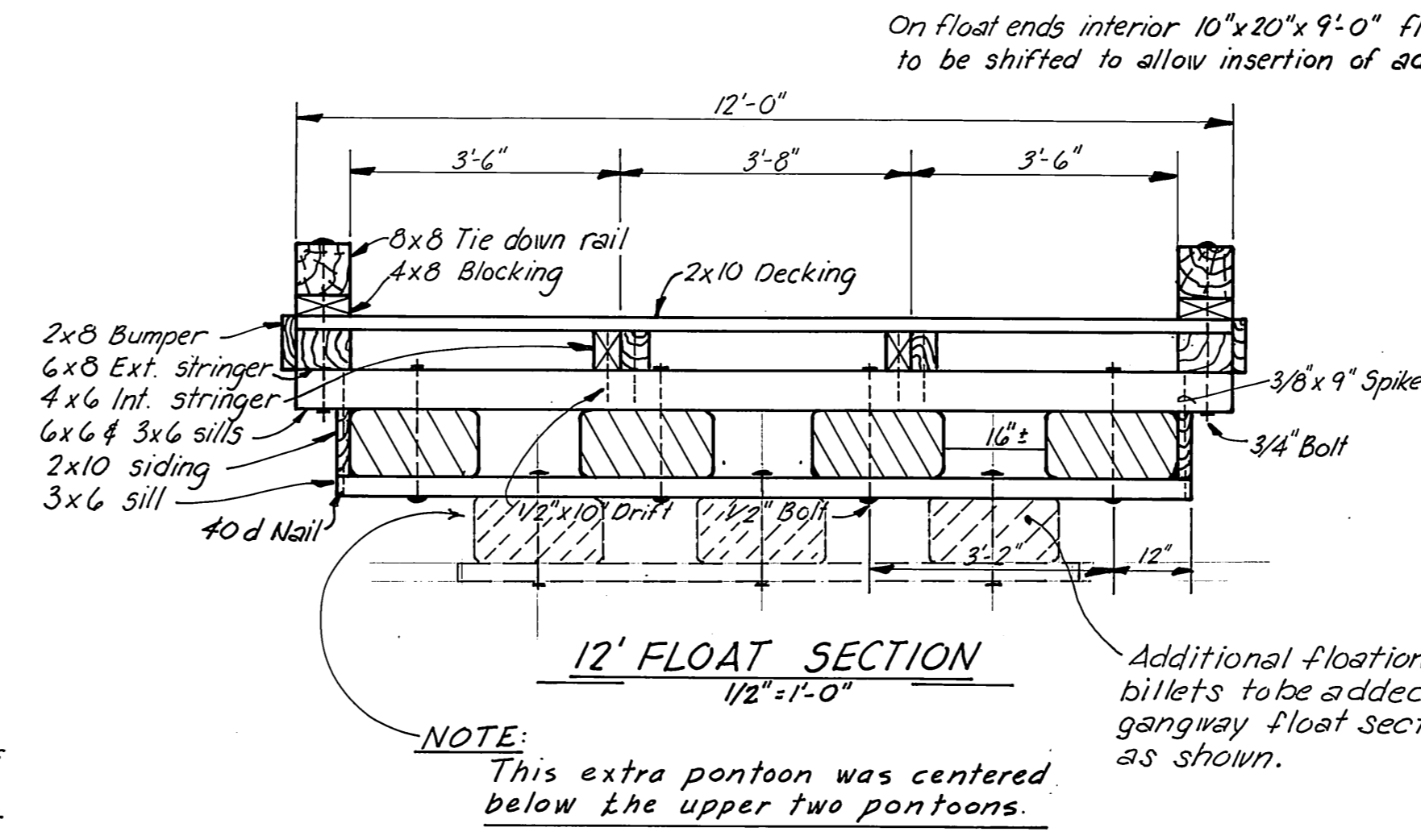
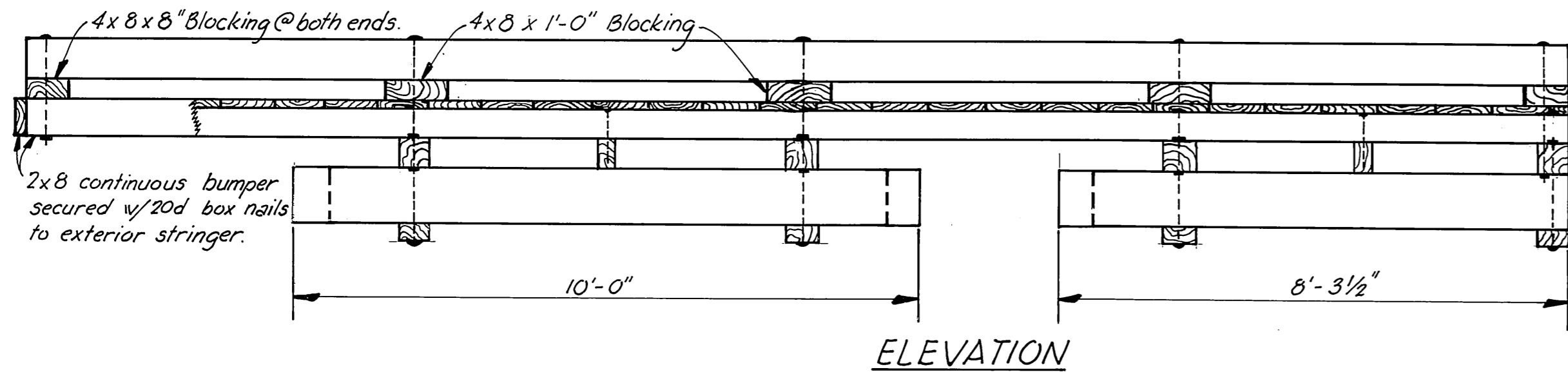
10' TIMBER FLOAT

SCALE: As noted  
 DESIGNED: JAL  
 CHECKED: [ ]  
 PROJECT NUMBER: K-39180

SURVEYED: ~  
 DRAWN: JAL  
 DATE: 6/12/78

APPROVED  
 Don Statter  
 DIRECTOR

SHEET 5 OF 11



NOTE: This float rebuilt as didn't float properly

ITEM	DRESSING	TREATMENT
3x6, 4x6 & 6x6 upper sill	S 1 E 1/8" off	10 lbs. Creos.
2x10 siding	2" x 10 1/2"	" " "
3x6 lower sill	Rough	" " "
4x6 interior stringer	S 2 E	" " "
6x8 exterior stringer	S 4 S	" " "
2x8 bumpers	" " "	0.4 lb. Penta
6x6 collar stringers	" " "	10 lbs. Creos.
2x10 decking	Milled	0.4 lb. Penta
4x8 blocking	S 4 S	" " "
8 x 8 rail	" " "	" " "

- PRE-DRILLED BOLT HOLES**  
 COLLAR MEMBERS - all holes  
 SILLS - holes for flotation plank bolts  
 STRINGERS - holes for stringer to sill bolts  
 TIE DOWN RAIL - all holes  
 PILE COLLAR STRINGER - 12' FLOAT - all holes  
**FIELD DRILLED BOLT HOLES**  
 SILLS - 1. holes for stringer to sill bolts  
 2. pile collar stringer to sill  
 RAIL BLOCKING - all holes  
 COLLAR PLATES - all holes  
 EXT. STRINGER - 1. holes for tie down rail bolts  
 2. holes for pile collar plate bolts

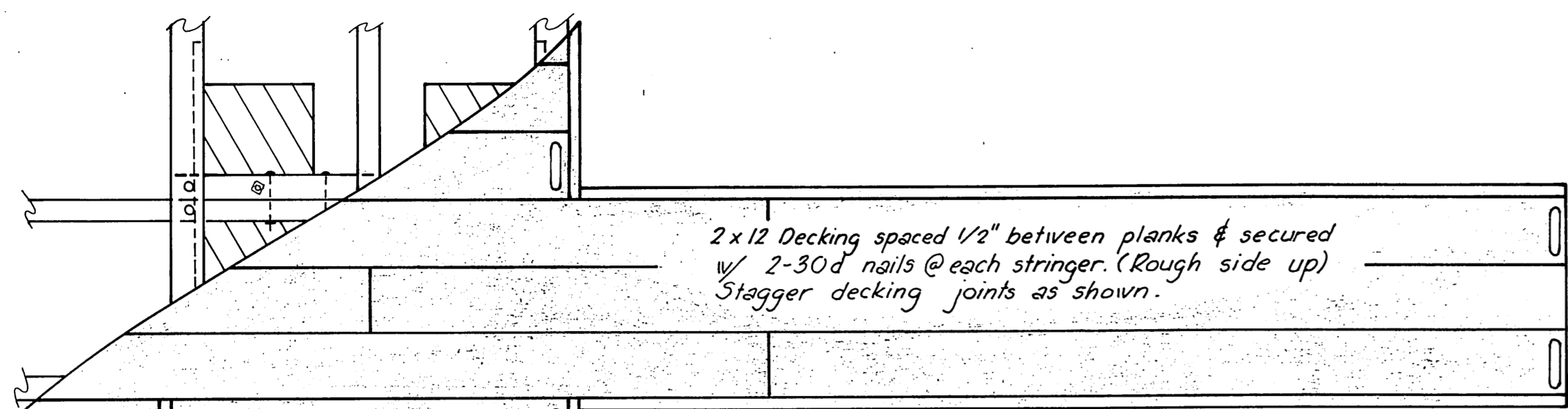
**Notes**  
 All hardware to be hot dipped galvanized. A malleable iron washer shall be placed between all nut and wood surfaces. All bolts to be of the economy headed type. Bolt holes to be drilled 1/16" oversize except sill bolt holes for flotation planks 1/8" oversize. Drift holes to be drilled 1/16" undersize. All field drill holes shall be treated with hot creosote oil. All pressure treated creosote material shall be cut to size prior to treatment. Tie down rails shall extend across all float ends except under gangway. All bolt heads facing decking shall be countersunk 1/4" previous to treatment. Field drill all drift pin holes. A barrier of 6 mil black polyethylene shall be placed between the contact surfaces of all creosote timber and flotation material (except float siding members).

All material to be Dense No. 1 grade Douglas Fir.  
**STRINGER DIAGRAM - AS BUILT**  
 3/16" = 1'-0"

**AS BUILT**

Note: New piles @ City Float to be cut off at same elevation as existing float piles, approximately 32".

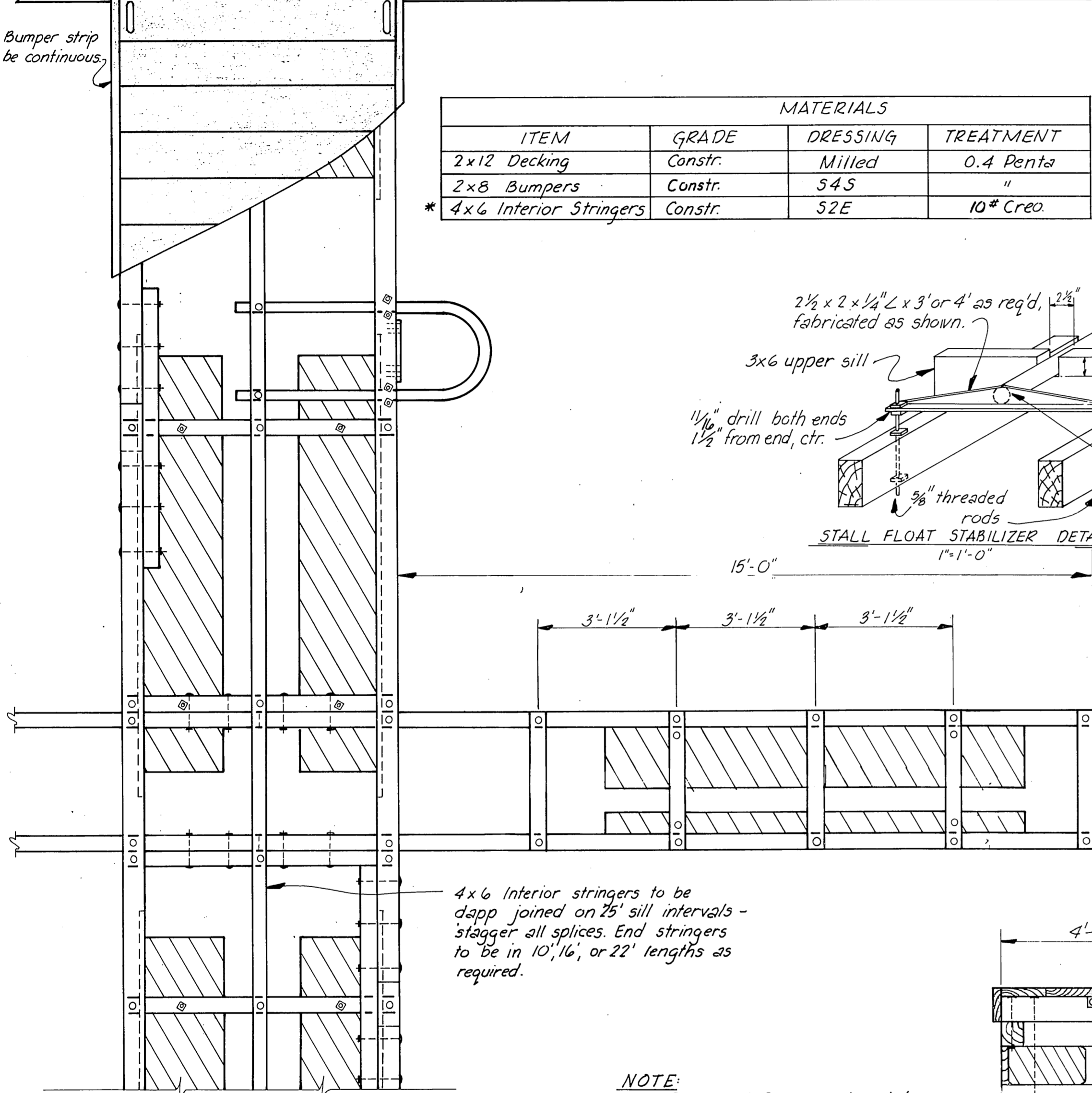
STAMP	DO NOT SCALE THIS DRAWING - USE DIMENSIONS	
	STATE OF ALASKA DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES DIVISION OF HARBOR DESIGN AND CONSTRUCTION	
	<b>12'x25' GANGWAY FLOAT &amp; DETAILS</b>	
SCALE As Noted	SURVEYED	APPROVED
DESIGNED	DRAWN JTM	Don Statter
CHECKED JL/RB	DATE JUNE 1978	DIRECTOR
PROJECT NUMBER K-39180	SHEET 6 OF 11	



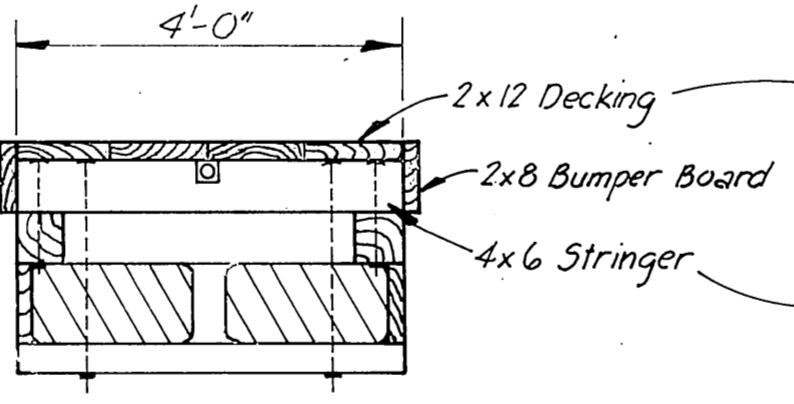
Note: Shaded areas to be replaced this project.

MATERIALS			
ITEM	GRADE	DRESSING	TREATMENT
2x12 Decking	Constr.	Milled	0.4 Penta
2x8 Bumpers	Constr.	545	"
* 4x6 Interior Stringers	Constr.	52E	10# Creol.

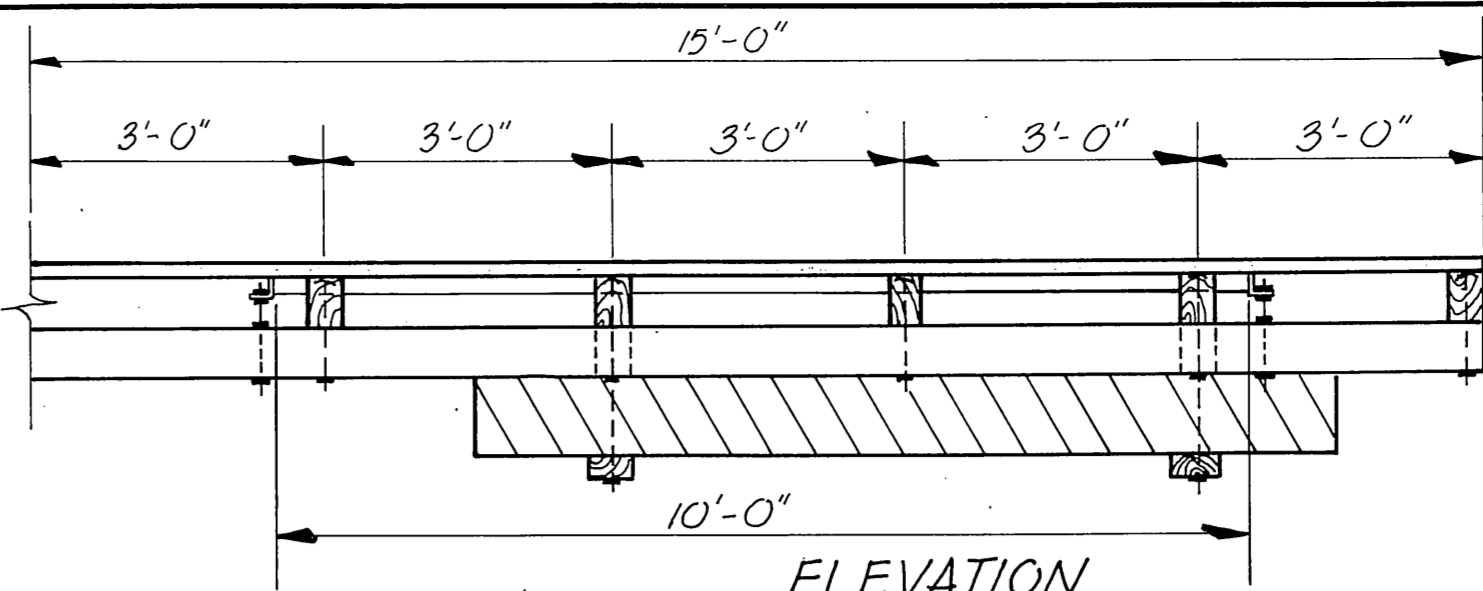
2x8 Bumper strip to be continuous.



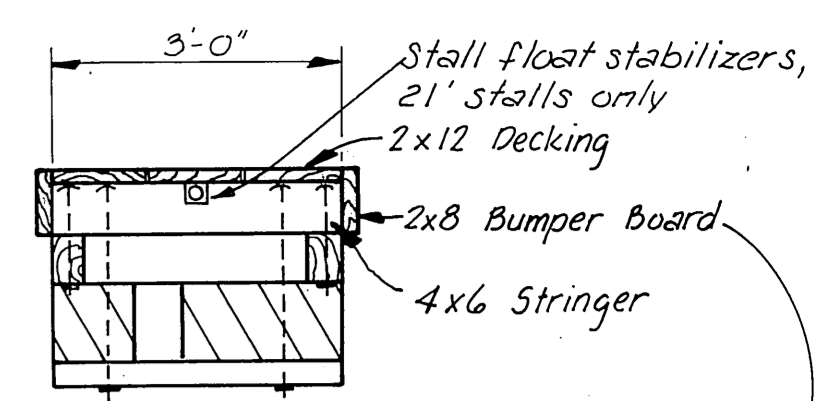
PLAN VIEW  
15' STALL FLOAT ASSEMBLED  
1/2" = 1'-0"



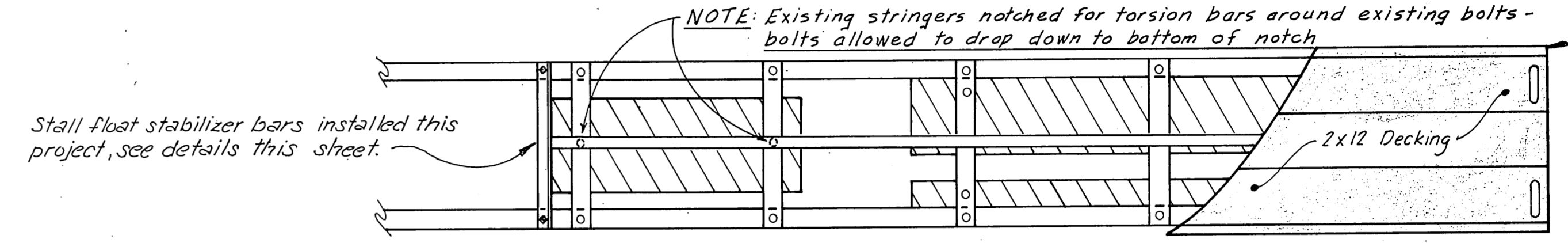
4' FLOAT SECTION



ELEVATION  
3'x15' STALL FLOAT  
1/2" = 1'-0"

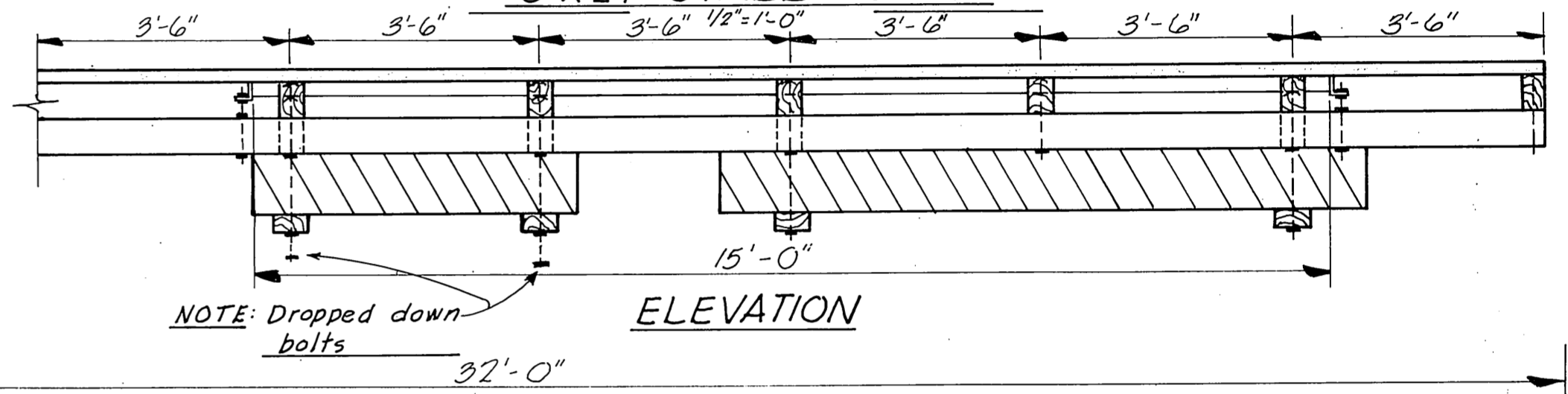


SECTION

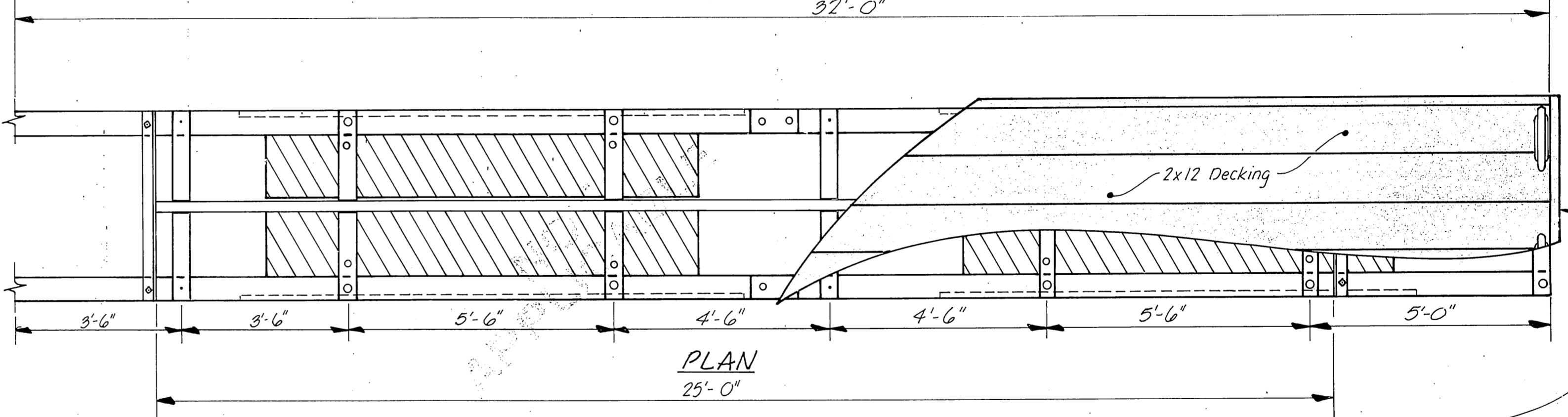


Stall float stabilizer bars installed this project, see details this sheet.

PLAN  
3'x21' STALL FLOAT  
1/2" = 1'-0"



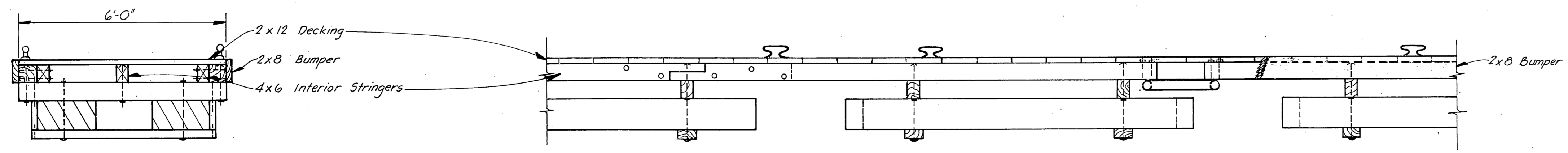
ELEVATION  
4'x32' STALL FLOAT  
1/2" = 1'-0"



PLAN  
4'x32' STALL FLOAT  
1/2" = 1'-0"

NOTE: Damaged foam replaced & minor breaks blocked down

AS BUILT

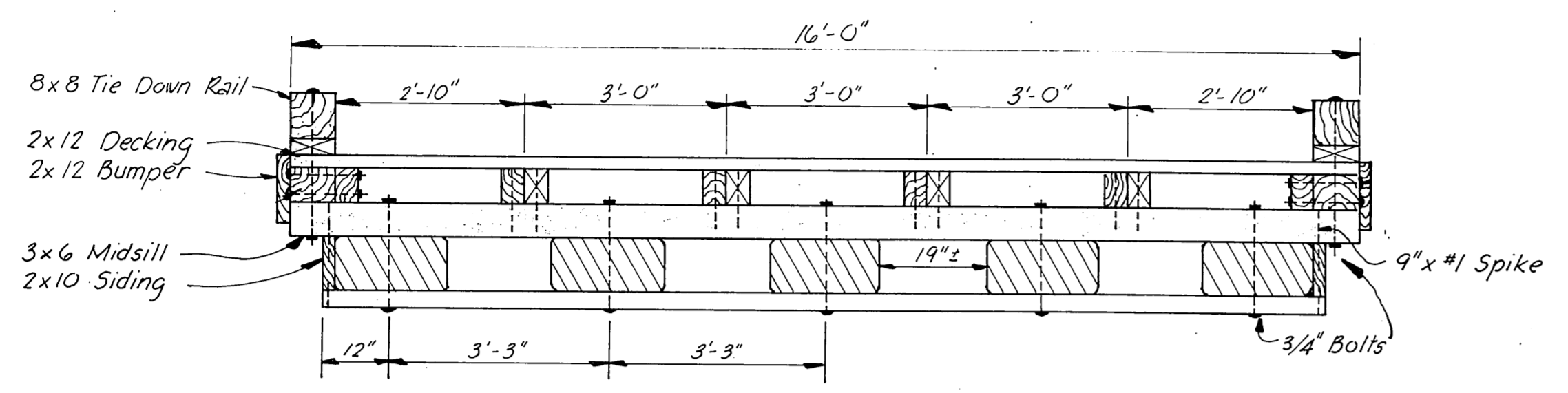


6' FLOAT SECTION

6' FLOAT ELEVATION

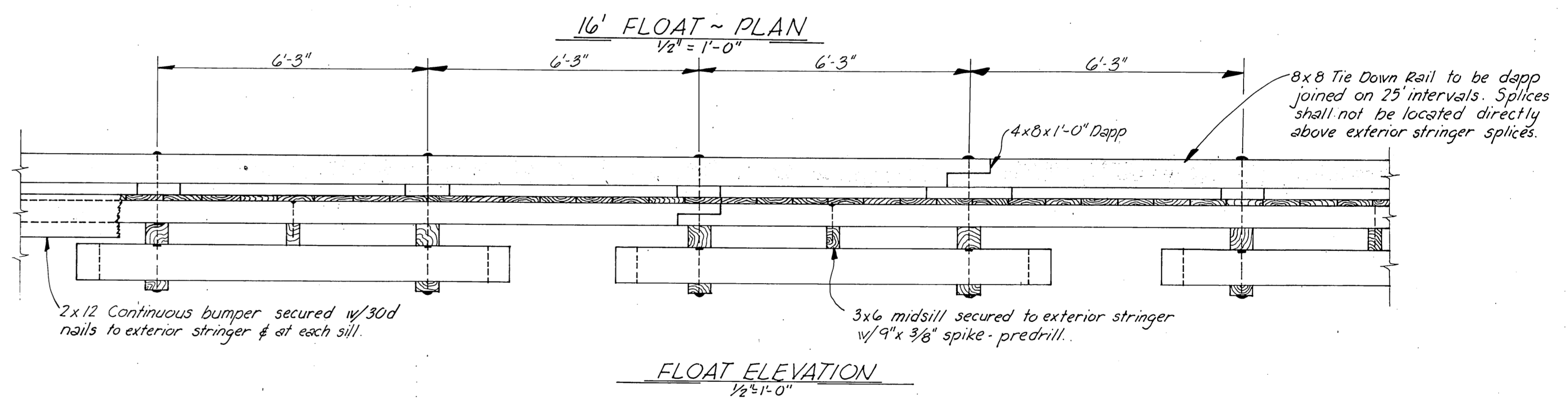
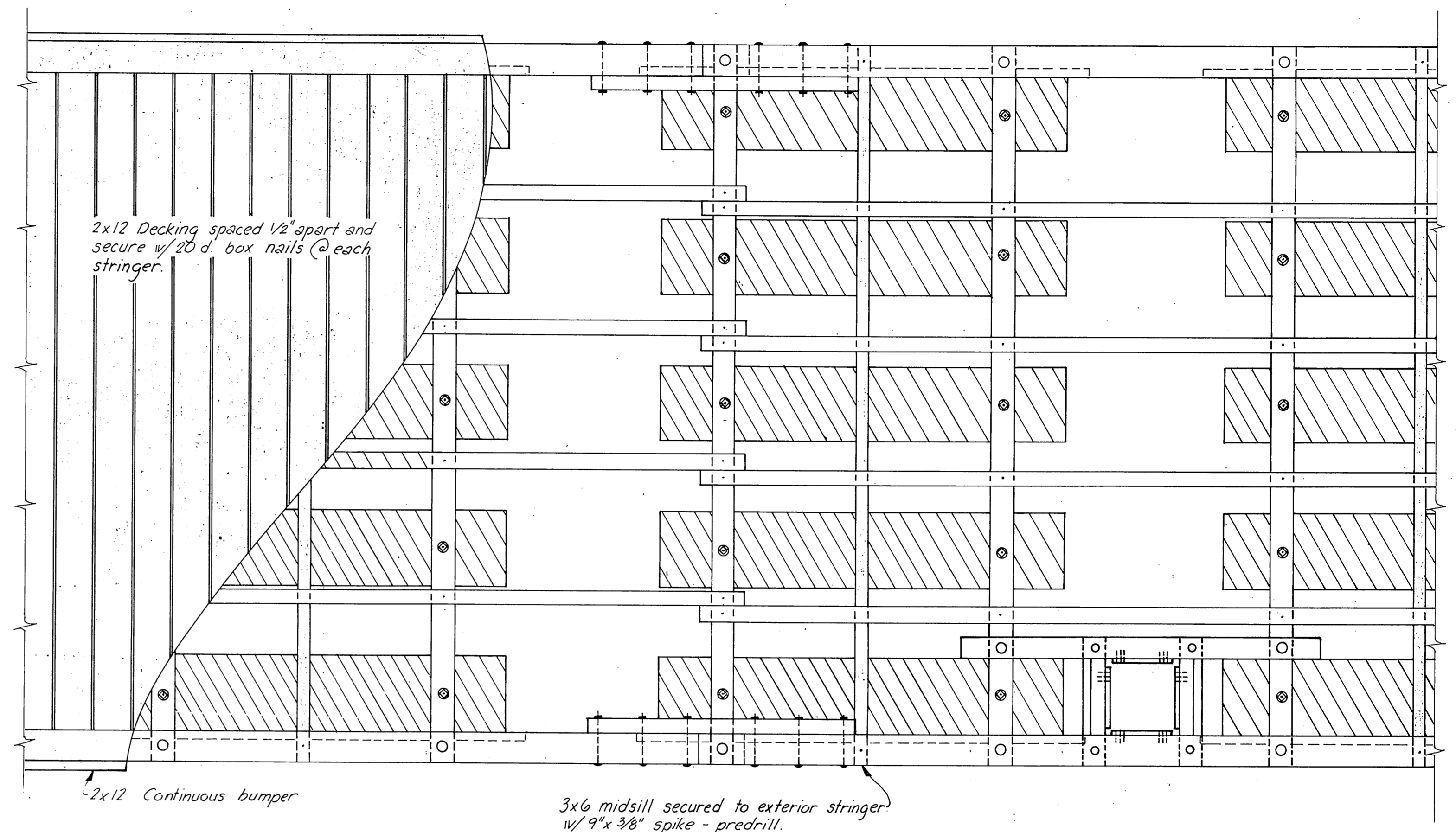
Note: Replace only materials shown in details.

STAMP 	DO NOT SCALE THIS DRAWING - USE DIMENSIONS	
	STATE OF ALASKA DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES DIVISION OF HARBOR DESIGN AND CONSTRUCTION	
6' FLOAT, 4'x32', 3'x21' & 3'x15' STALL FLOATS		
SCALE: As Noted	SURVEYED: ~	APPROVED: ~
DESIGNED: ~	DRAWN: JTM	DATE: 6/14/78
CHECKED: JLRB	DATE: 6/14/78	DIRECTOR: Don Stetter
PROJECT NUMBER: K-39180	SHEET 7 OF 11	



**FLOAT SECTION**  
1/2" = 1'-0"

Note: Shaded items to be replaced this project.



NOTE: Damaged foam replaced w/new & minor breaks blocked down

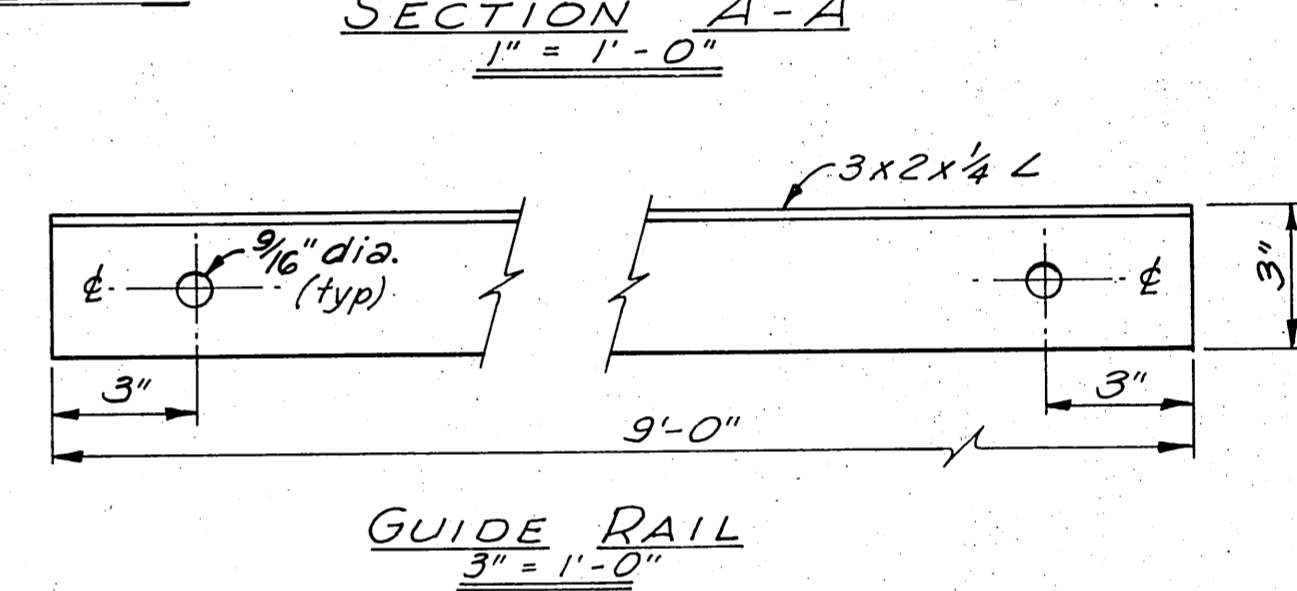
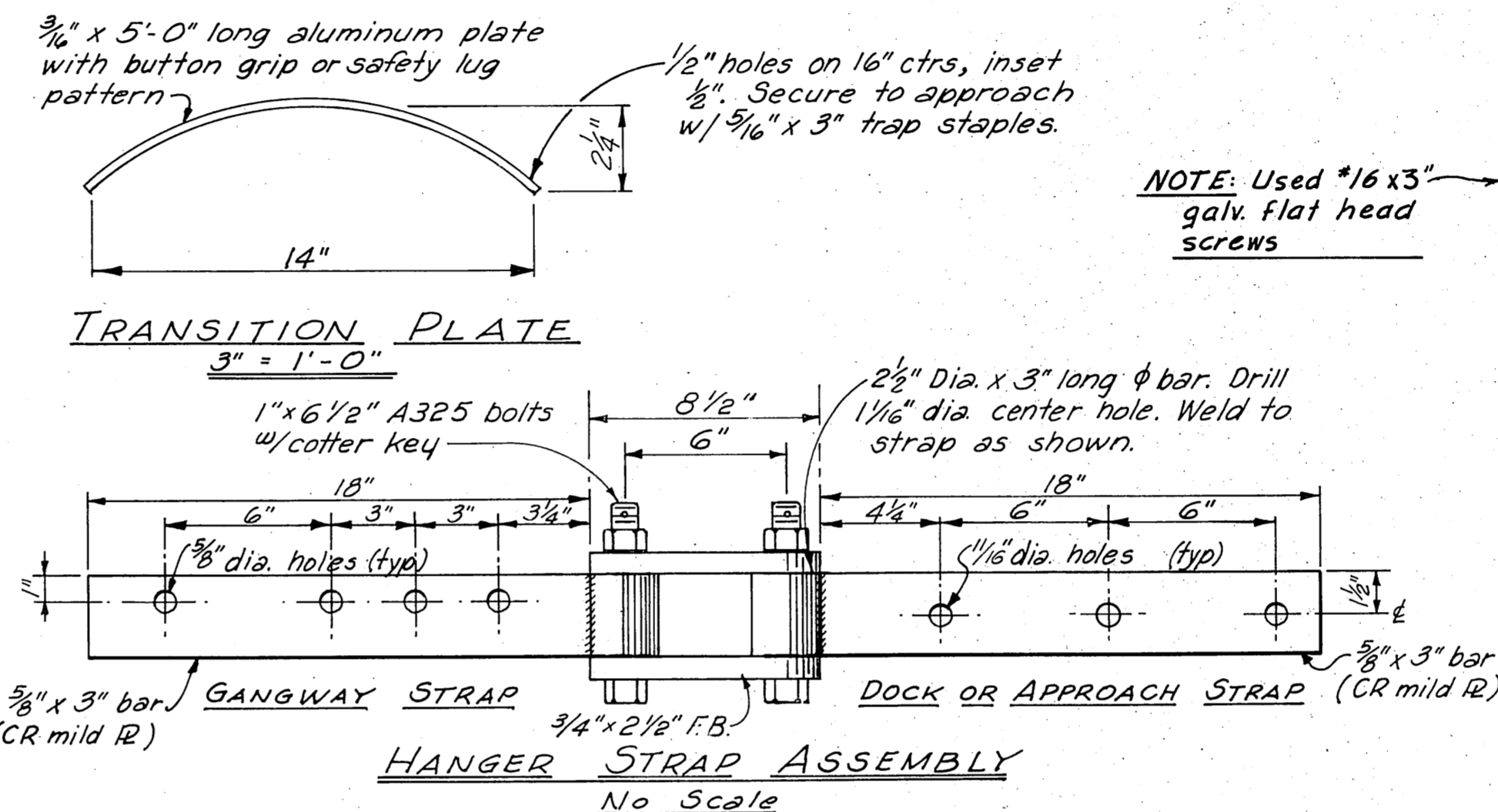
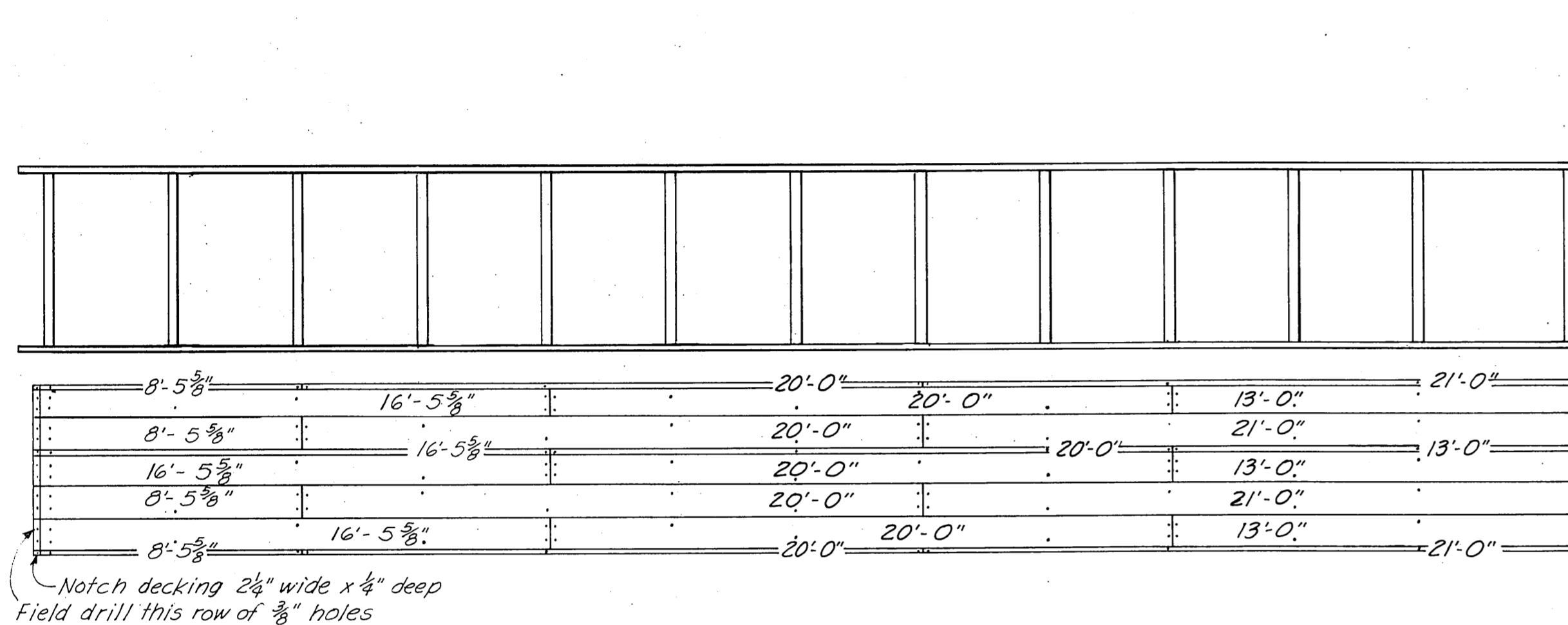
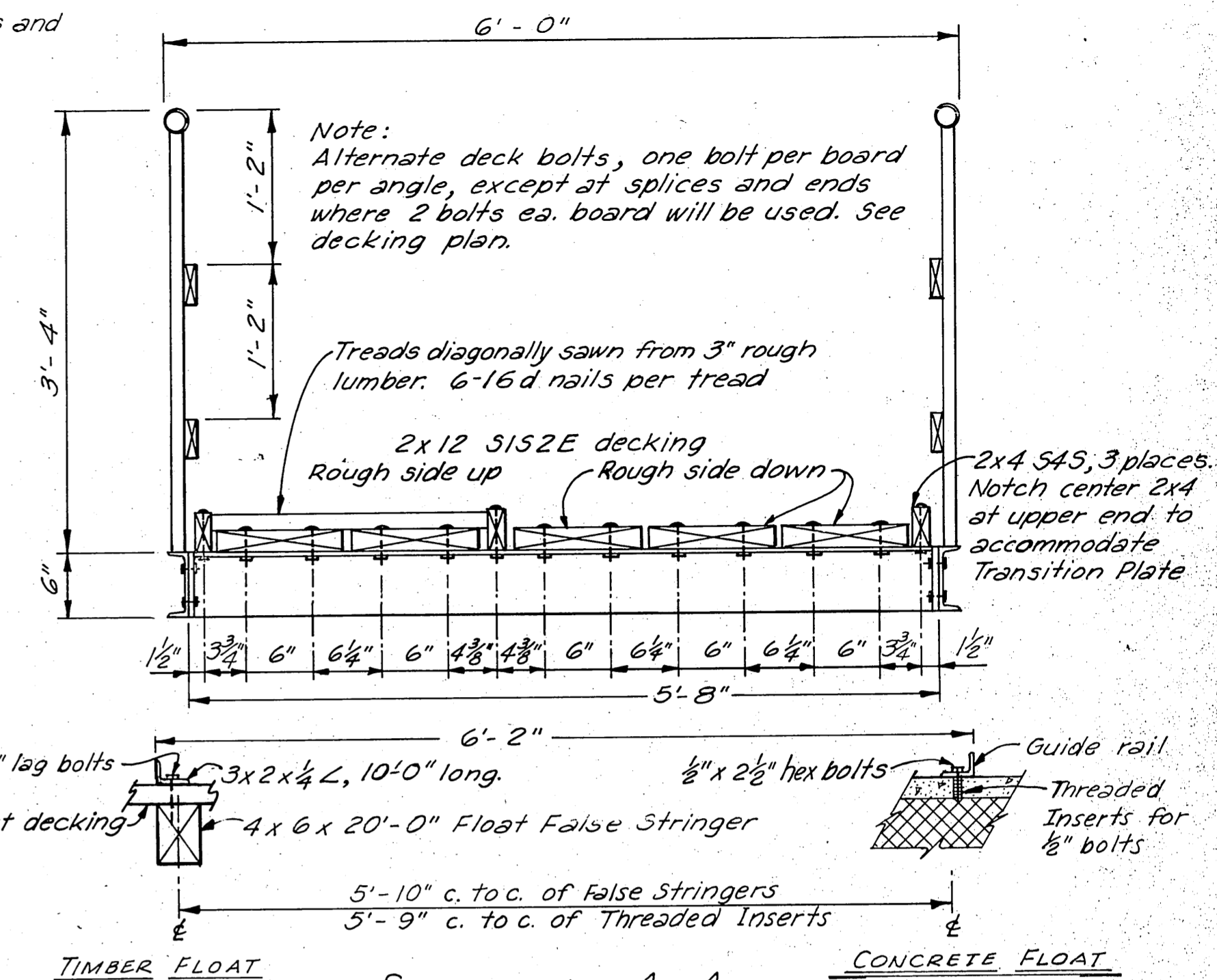
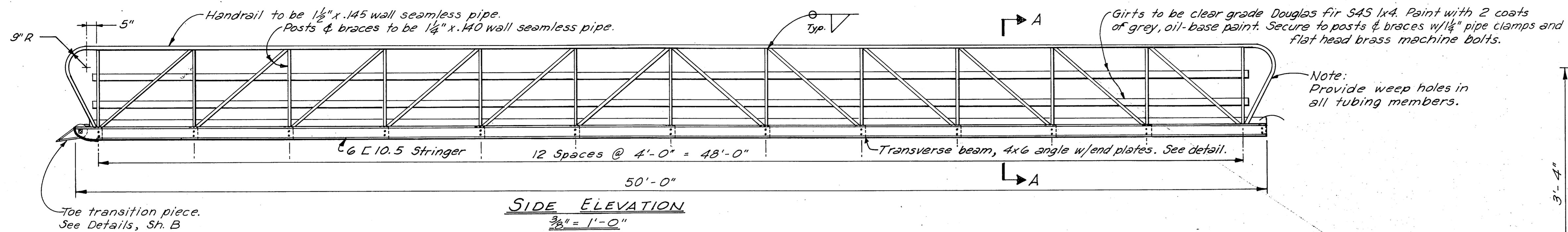
MATERIALS		
ITEM	DRESSING	TREATMENT
3x6 Upper Sill	S4S	10 lbs Creo.
2x12 Bumper	"	0.4lb Penta
2x12 Decking	Milled	" " "
8x8 Tie Down Rail	S4S	" " "

All material to be Dense No. 1 grade Douglas Fir.

AS BUILT

Note: Replace only material shown in details.

STAMP		DO NOT SCALE THIS DRAWING - USE DIMENSIONS	
		STATE OF ALASKA DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES DIVISION OF HARBOR DESIGN AND CONSTRUCTION	
		<u>16' FLOAT DETAILS</u>	
SCALE: As Noted	SURVEYED: -	APPROVED: <u>Don Statter</u> DIRECTOR	
DESIGNED: -	DRAWN: JTM	DATE: JUNE '78	
CHECKED: JAL/RPB	DATE: -	PROJECT NUMBER: K-39180	
PROJECT NUMBER: K-39180		SHEET 8 OF 11	

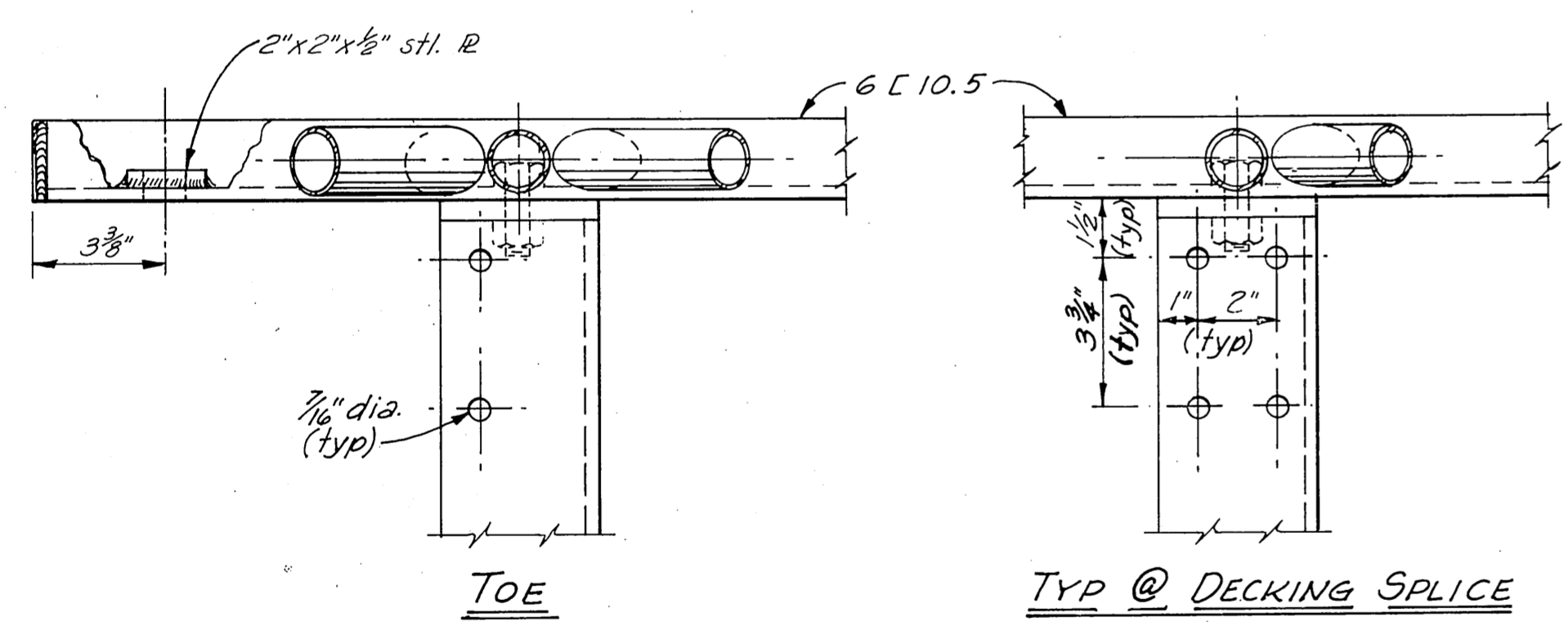


DECKING SPLICE LAYOUT  
1/4" = 1'-0"

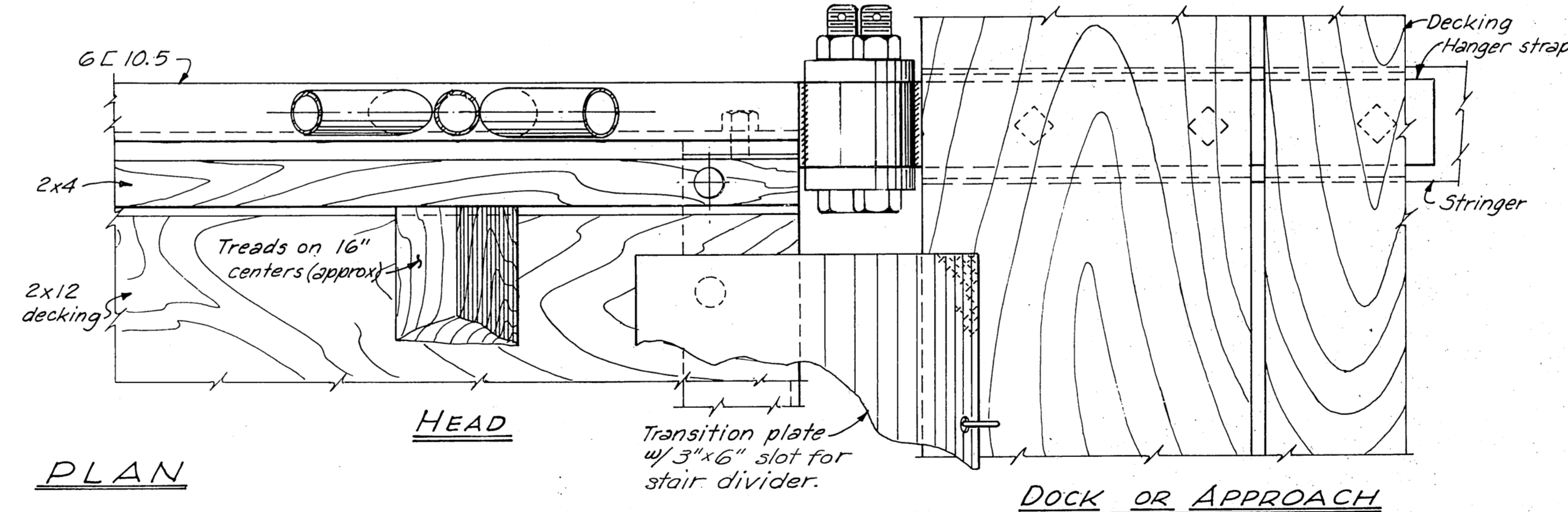
TRANSITION PLATE  
3" = 1'-0"

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

GUIDE RAIL  
3" = 1'-0"



NOTE: FOR TOE TRANSITION PIECE, SEE SH. B

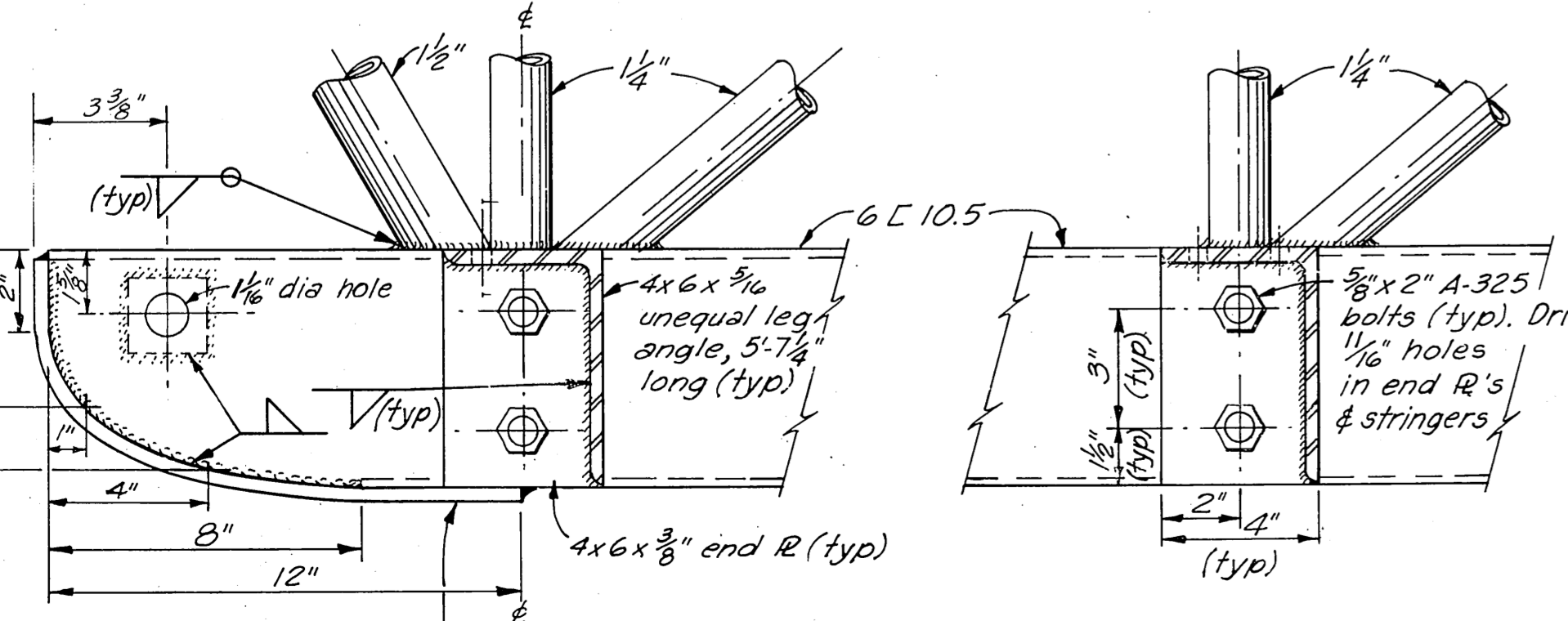


PLAN

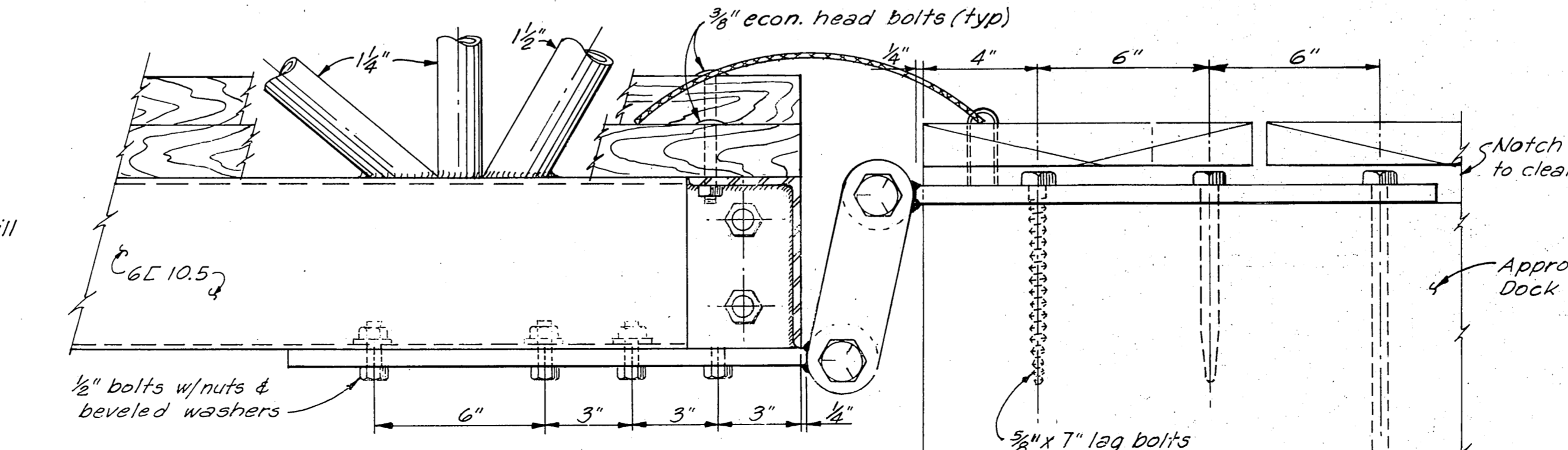
DOCK OR APPROACH

- NOTES:
- All seamless pipe shall conform to ASTM A-53.
  - All channels, angles & plates shall conform to ASTM A-36.
  - Trusses shall be shop fabricated & assembled including hangers.
  - 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.
  - No tubing or channel splices will be permitted within the middle half of the truss structure.
  - Trusses & transverse beams shall be hot dipped galvanized after fabrication and in accordance with ASTM A-123, A-384, A-385 & A-386.
  - All steel hardware & fasteners shall be hot dipped galvanized in accordance with ASTM A-153.
  - Decking & deck spacers shall be Dense No 1 grade Douglas fir, pressure treated to 0.4 lb. cu. ft. retention, and shall be field drilled to match shop drilled holes in transverse members.

AS BUILT



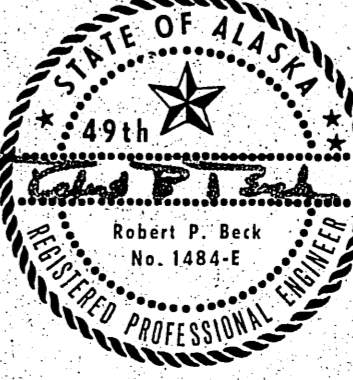
SECTIONAL ELEVATION CONSTRUCTION DETAILS  
3" = 1'-0"

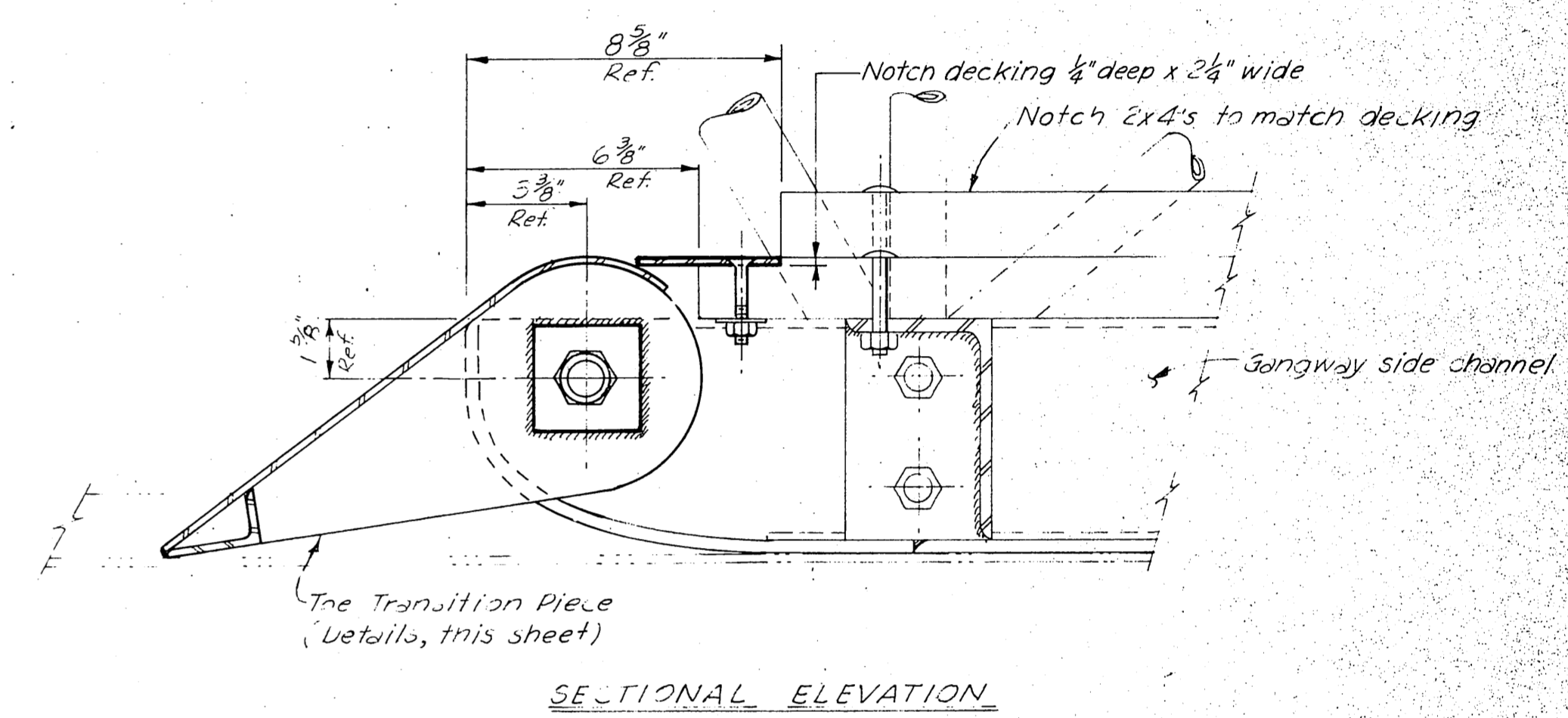
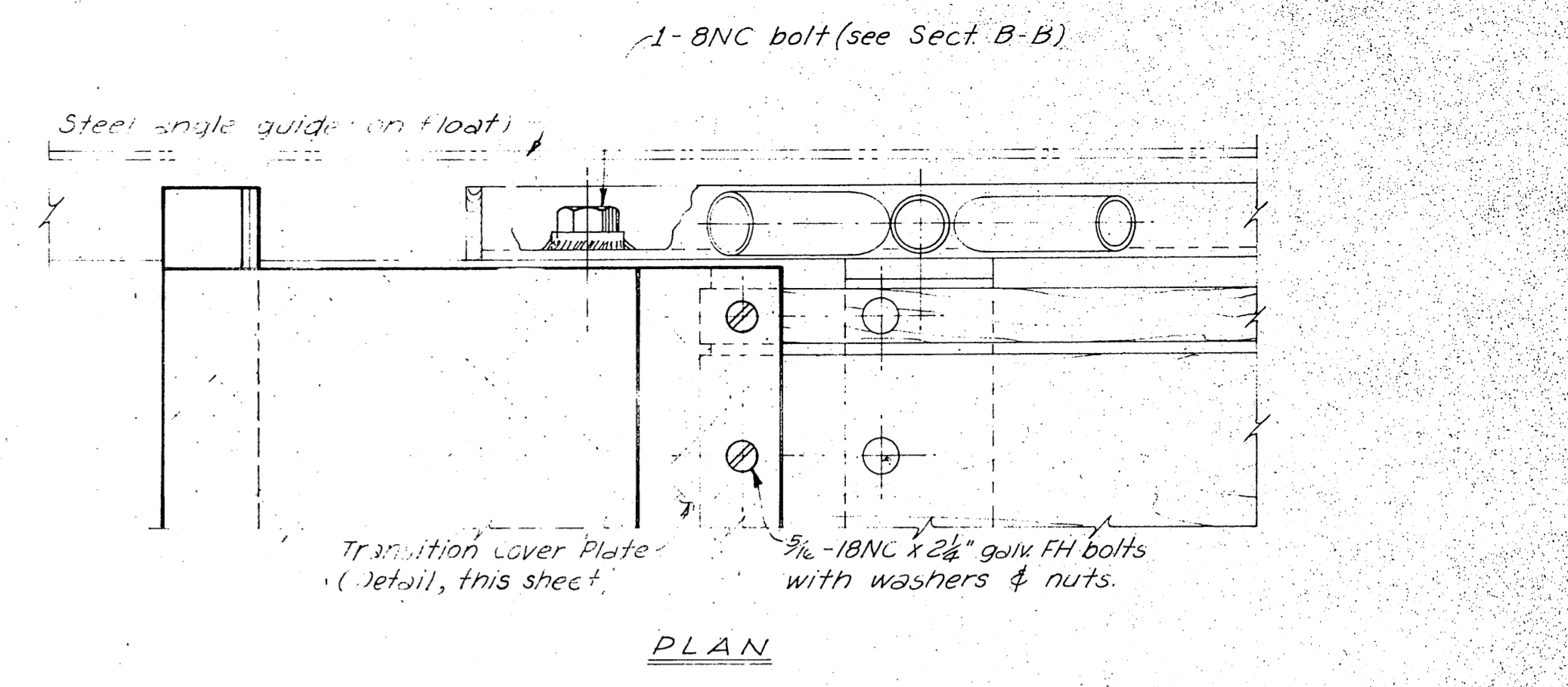
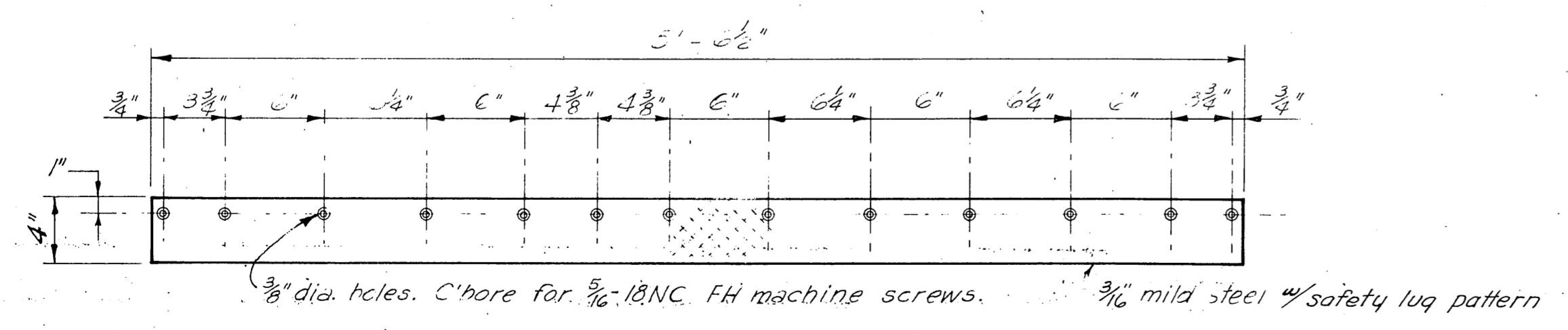
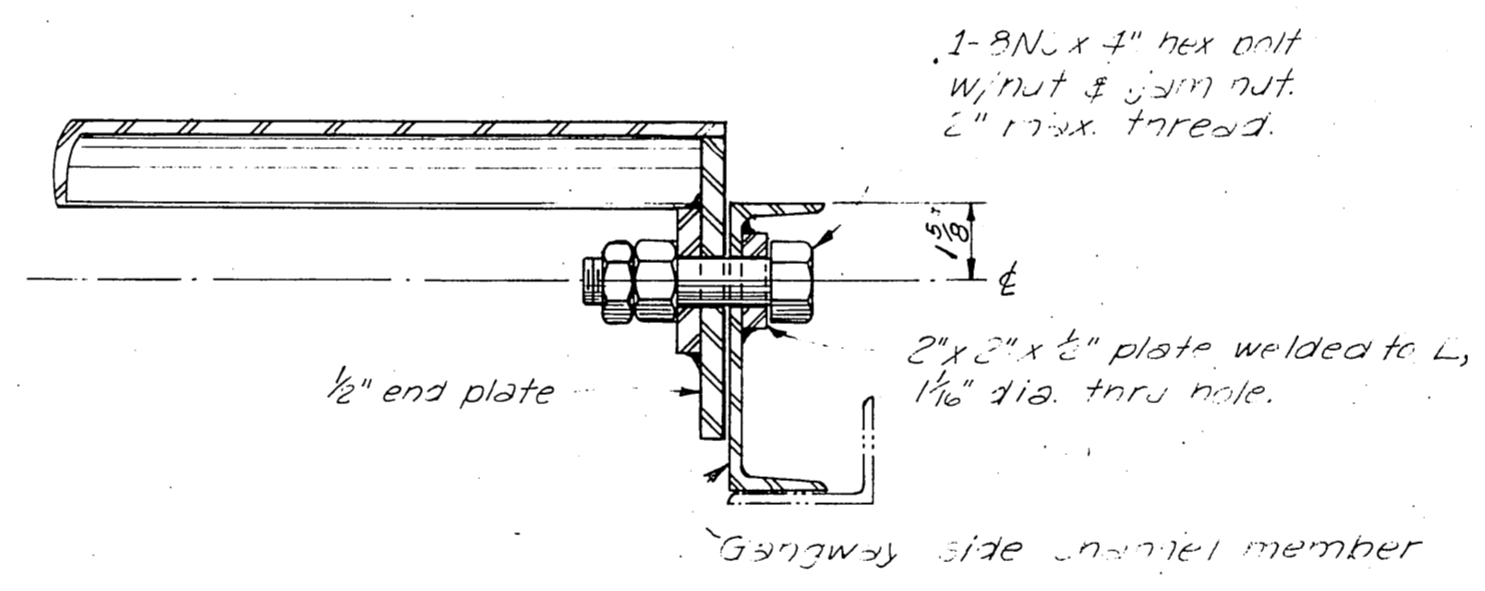
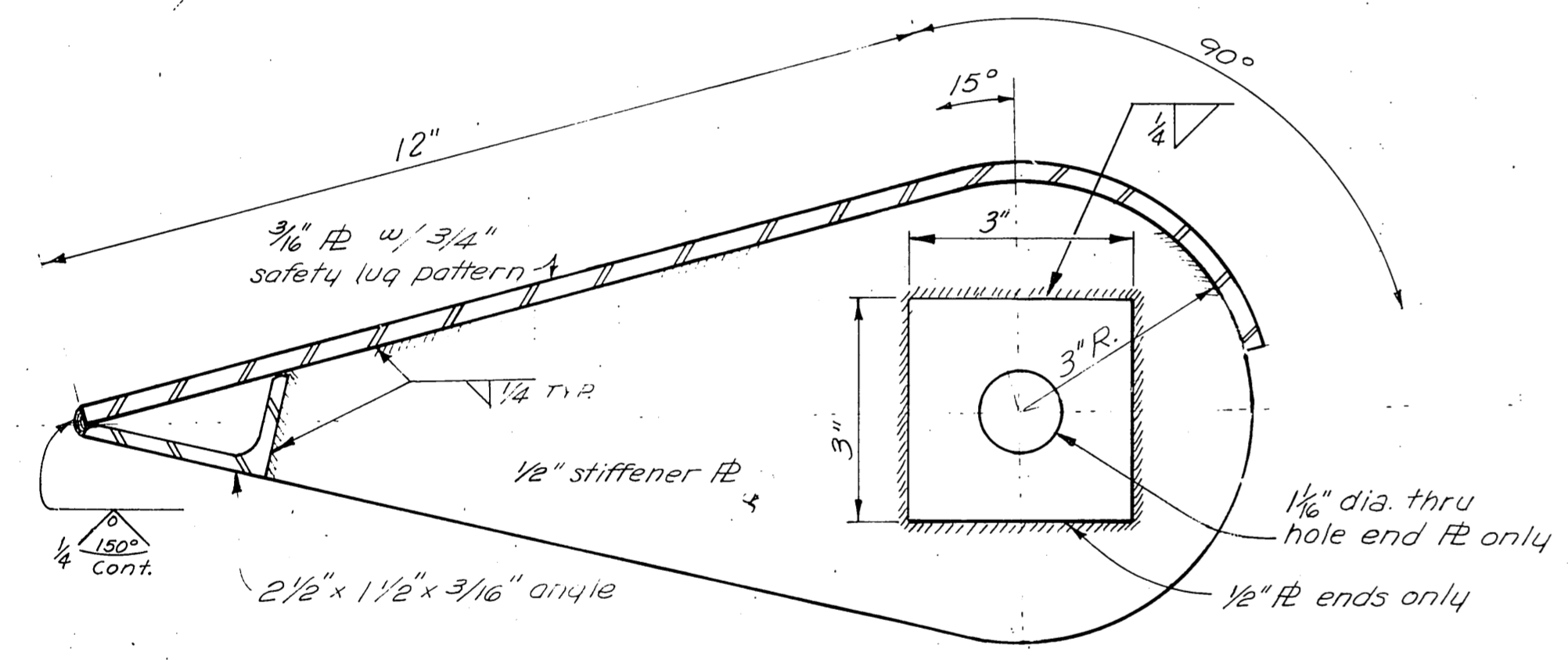
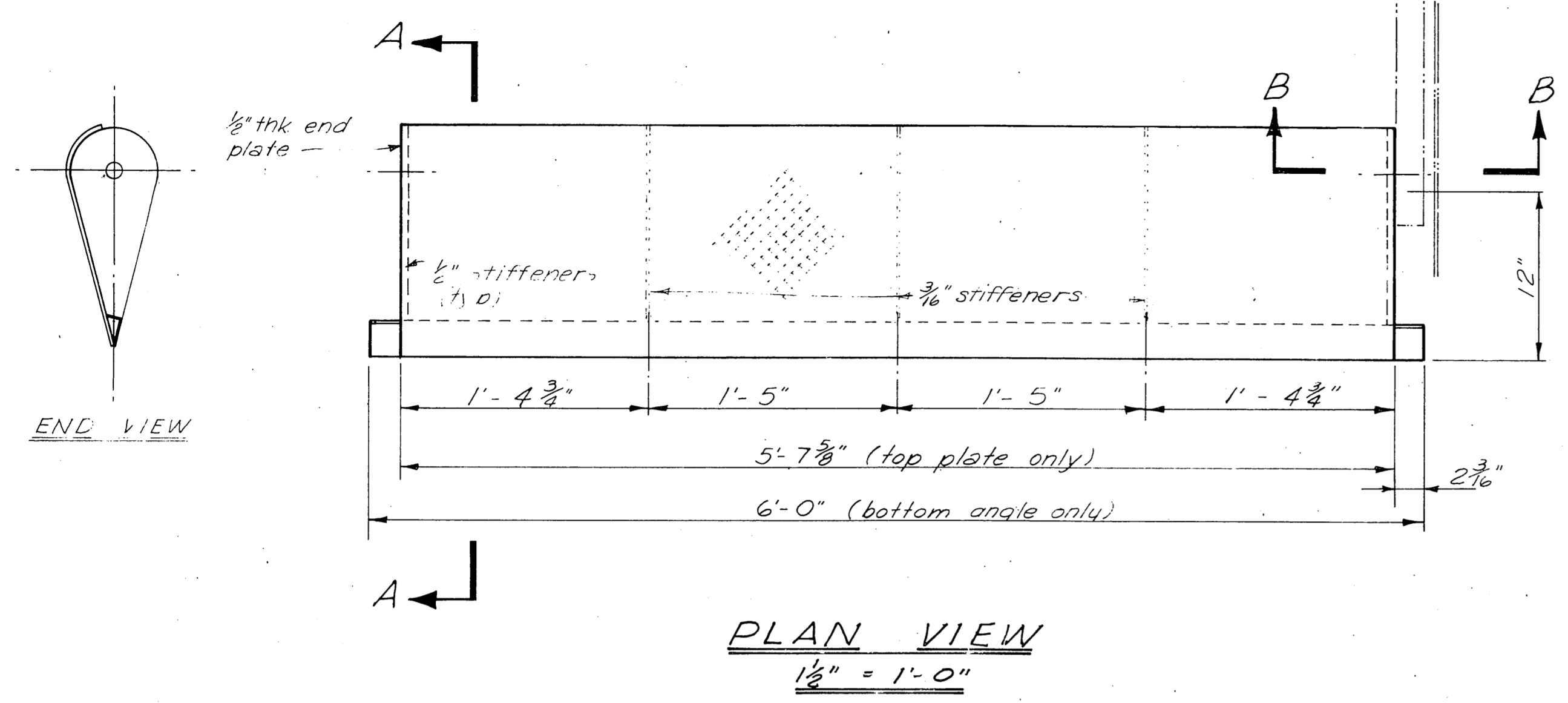


Revised 3-12-73 Hanger linkage  
Lumber grade  
Penta. retent  
Misc. holes, no. & size  
Revised 4-7-71. Removed Tension Wires.

ELS  
JET

DO NOT SCALE THIS DRAWING - USE DIMENSIONS		
STATE OF ALASKA DEPARTMENT OF PUBLIC WORKS DIVISION OF WATER AND HARBORS		
<b>TYPICAL STEEL GANGWAY CONSTRUCTION DETAILS (SHEET A)</b>		
SCALE As shown	SURVEYED	APPROVED
DESIGNED JT/RB	DRAWN JET	Don Statter
CHECKED DSM	DATE Dec. 1970	DIRECTOR
PROJECT NUMBER K-39180	SHEET 9 OF 11	





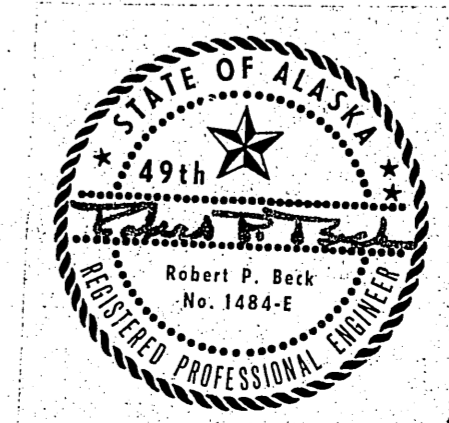
**ASSEMBLY DETAIL**  
 $3'' = 1'-0''$

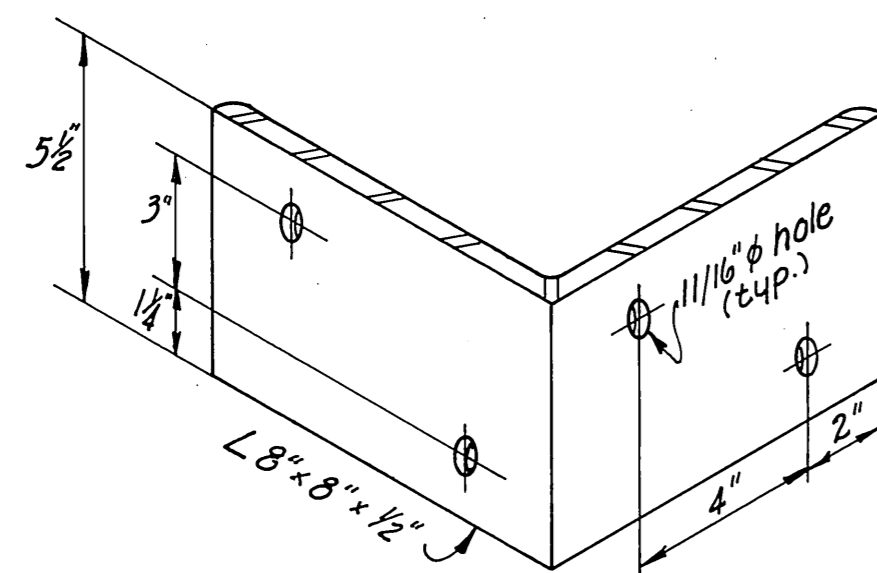
NOTES:  
 For notes pertaining to fabrication and galvanizing, see Sheet A

**AS BUILT**

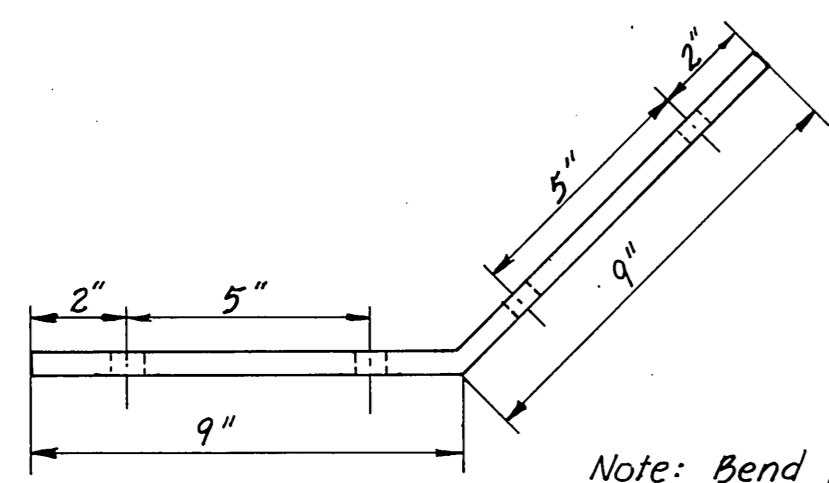
Revised 1-28-75 Removed 6" pipe ELS

DO NOT SCALE THIS DRAWING - USE DIMENSIONS		
STATE OF ALASKA DEPARTMENT OF PUBLIC WORKS DIVISION OF WATER AND HARBORS		
<b>TYPICAL STEEL GANGWAY TRANSITION PIECE DETAILS (SHEET B)</b>		
SCALE As shown	SURVEYED -	APPROVED
DESIGNED JET	DRAWN JET	Don Statter DIRECTOR
CHECKED DSM	DATE 2-11-74	
PROJECT NUMBER K-39180	SHEET 10 OF 11	



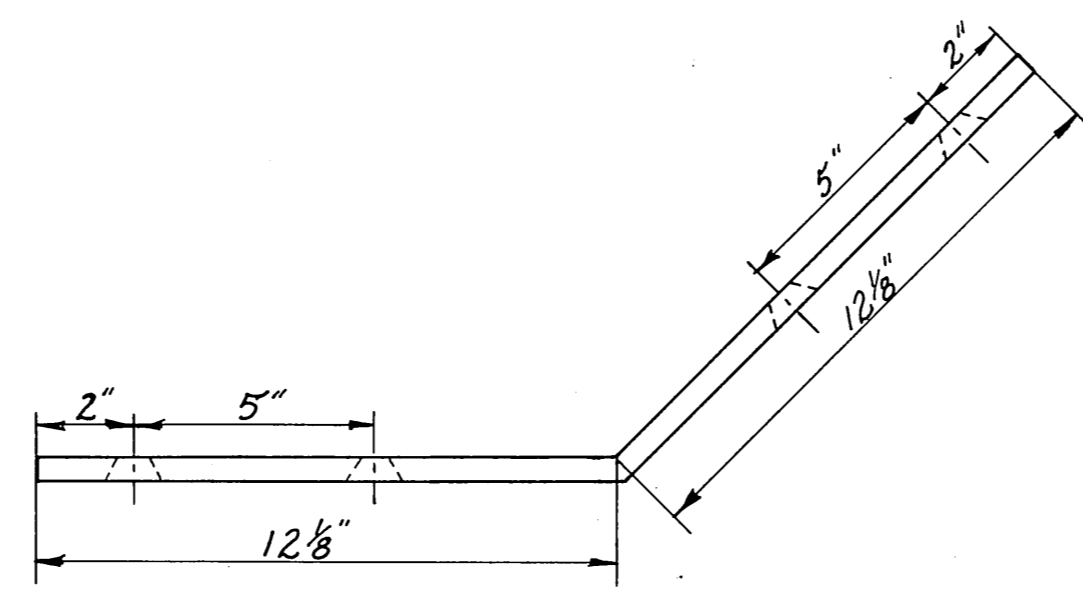


8 x 8 x 1/2" L  
(1 Req'd)  
3" = 1'-0"

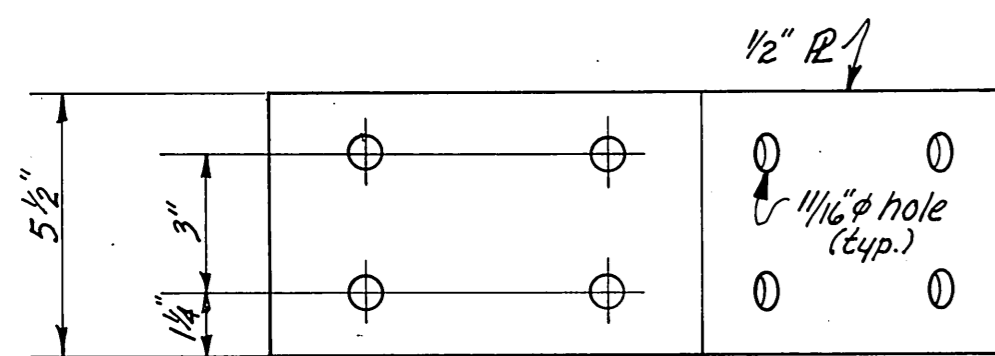


PLAN

Note: Bend plate 45° Hot dip galvanize after fabrication.

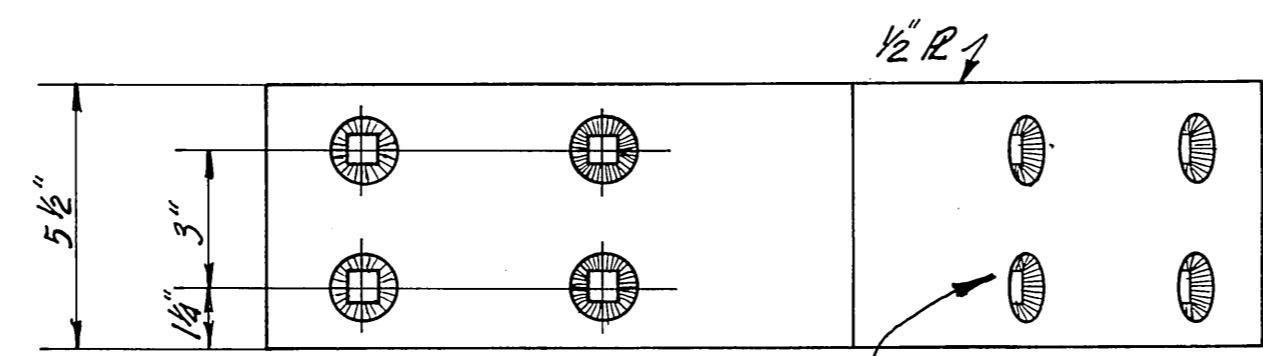


PLAN



ELEVATION

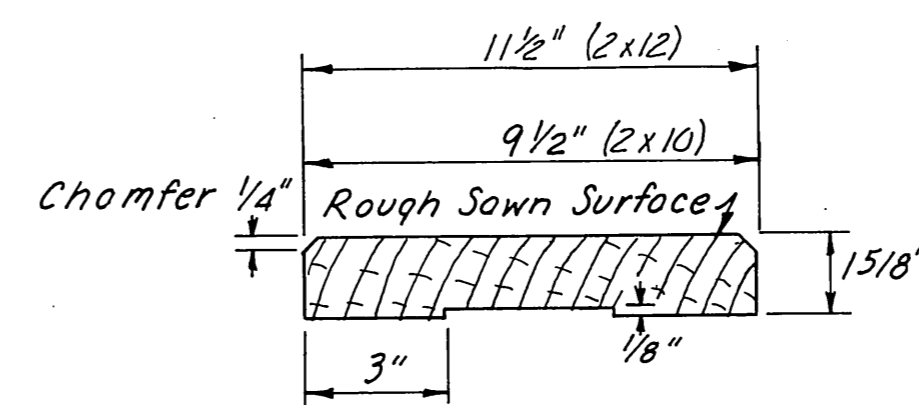
INTERIOR SPLICE PLATE  
(2 Req'd)  
3" = 1'-0"



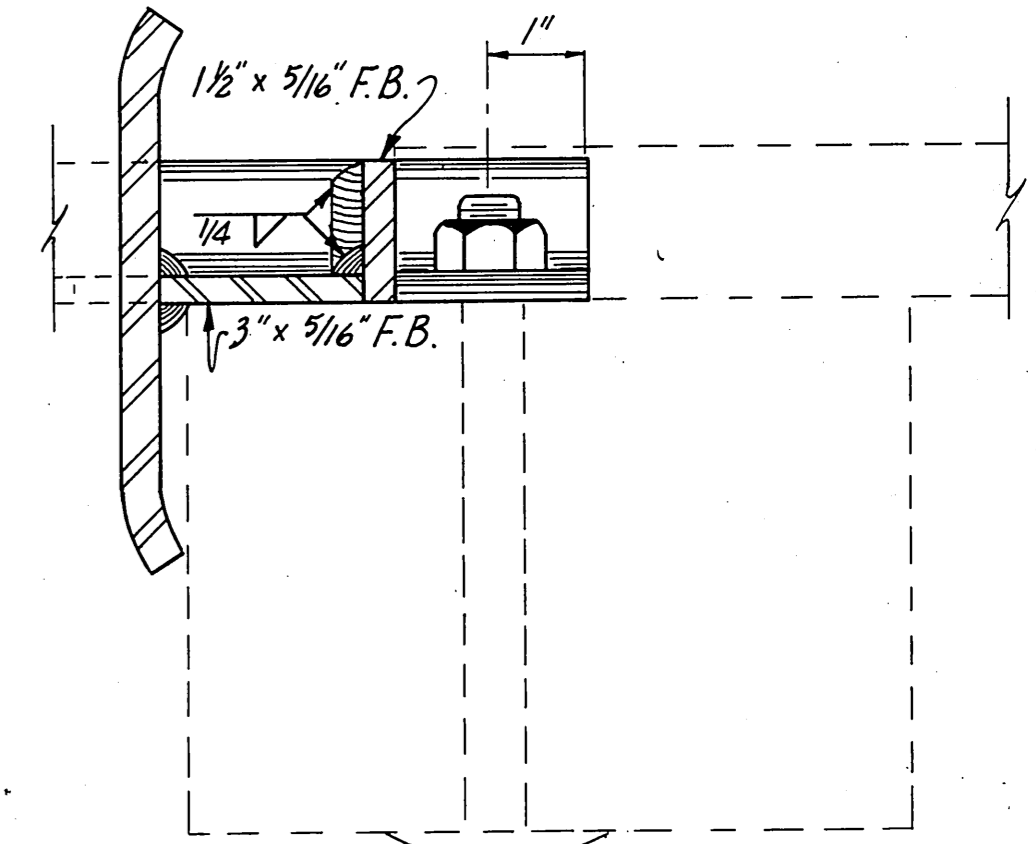
ELEVATION

EXTERIOR SPLICE PLATE  
(2 Req'd)  
3" = 1'-0"

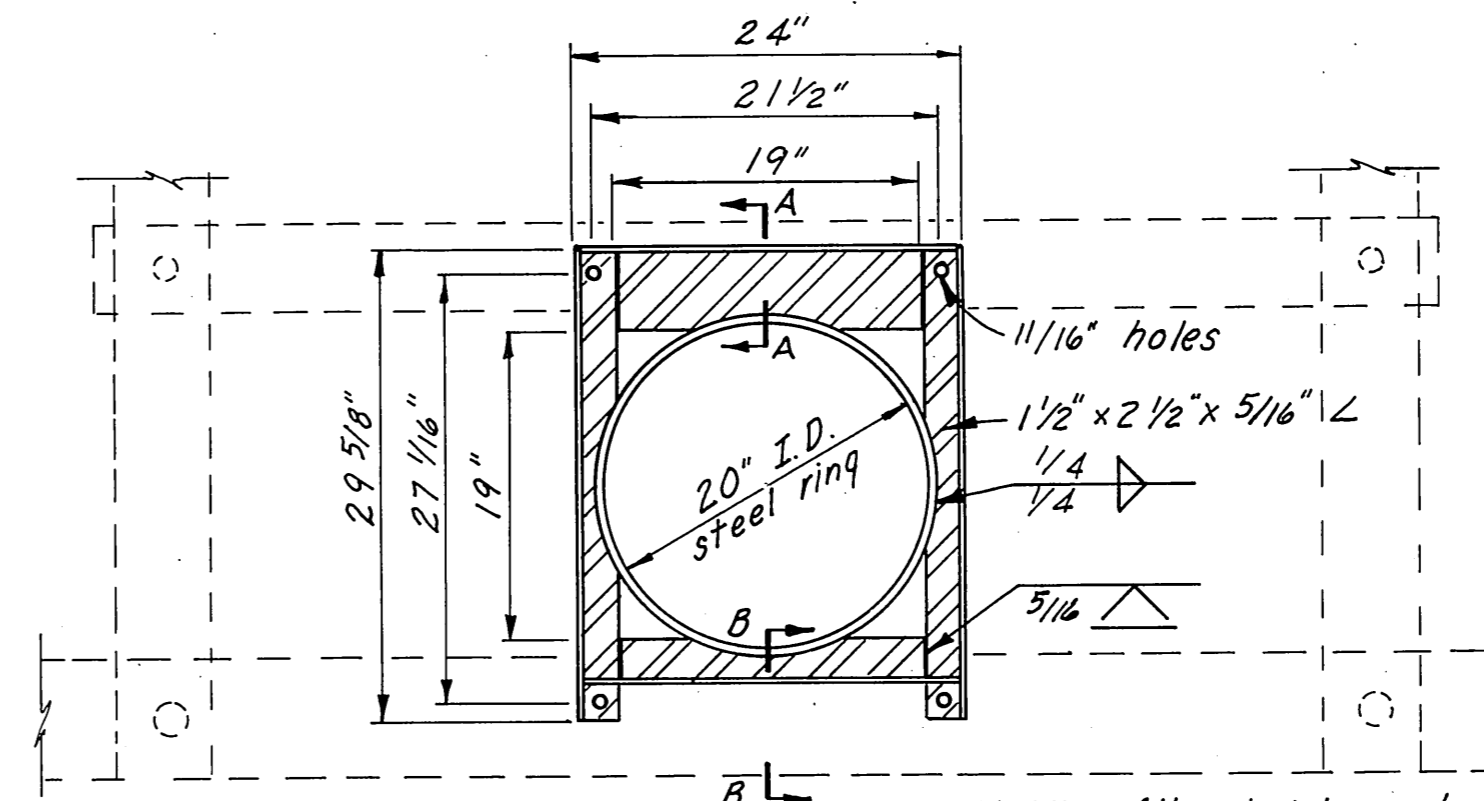
Typical countesink hole for 5/8" countersunk head carriage bolt, as per detailed by Northwest Bolt & Nut Co.



MILLED DECKING DETAIL  
3" = 1'-0"

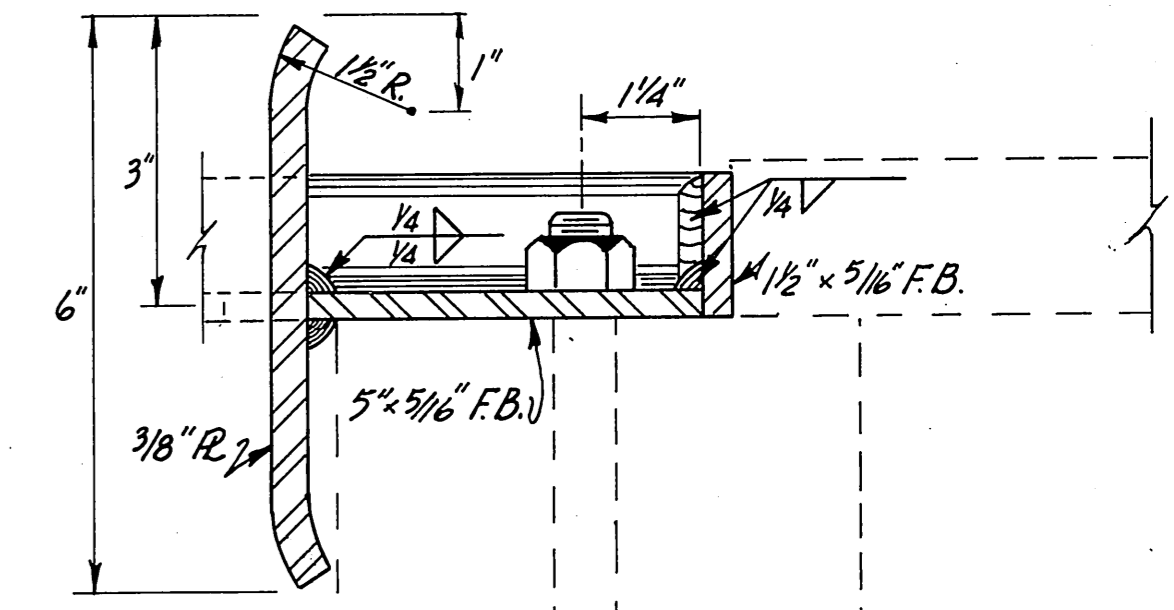


SECTION B-B  
Half Size



PLAN  
1" = 1'-0"

NOTE: All materials used shall be mild steel. Hot dip galvanize assembly subsequent to fabrication. Grind smooth collar ring splice weld prior to galvanizing.



SECTION A-A  
Half Size

STEEL PILE COLLAR  
DETAILS

AS BUILT

STAMP		DO NOT SCALE THIS DRAWING - USE DIMENSIONS	
		STATE OF ALASKA DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES DIVISION OF HARBOR DESIGN AND CONSTRUCTION	
		MISCELLANEOUS DETAILS	
SCALE: As noted	SURVEYED: _____	APPROVED: _____	
DESIGNED: JAL	DRAWN: JAL	Don Stotter DIRECTOR	
CHECKED: JL/EPB	DATE: 6/28/78		
PROJECT NUMBER: K-39180	SHEET 11 OF 11		