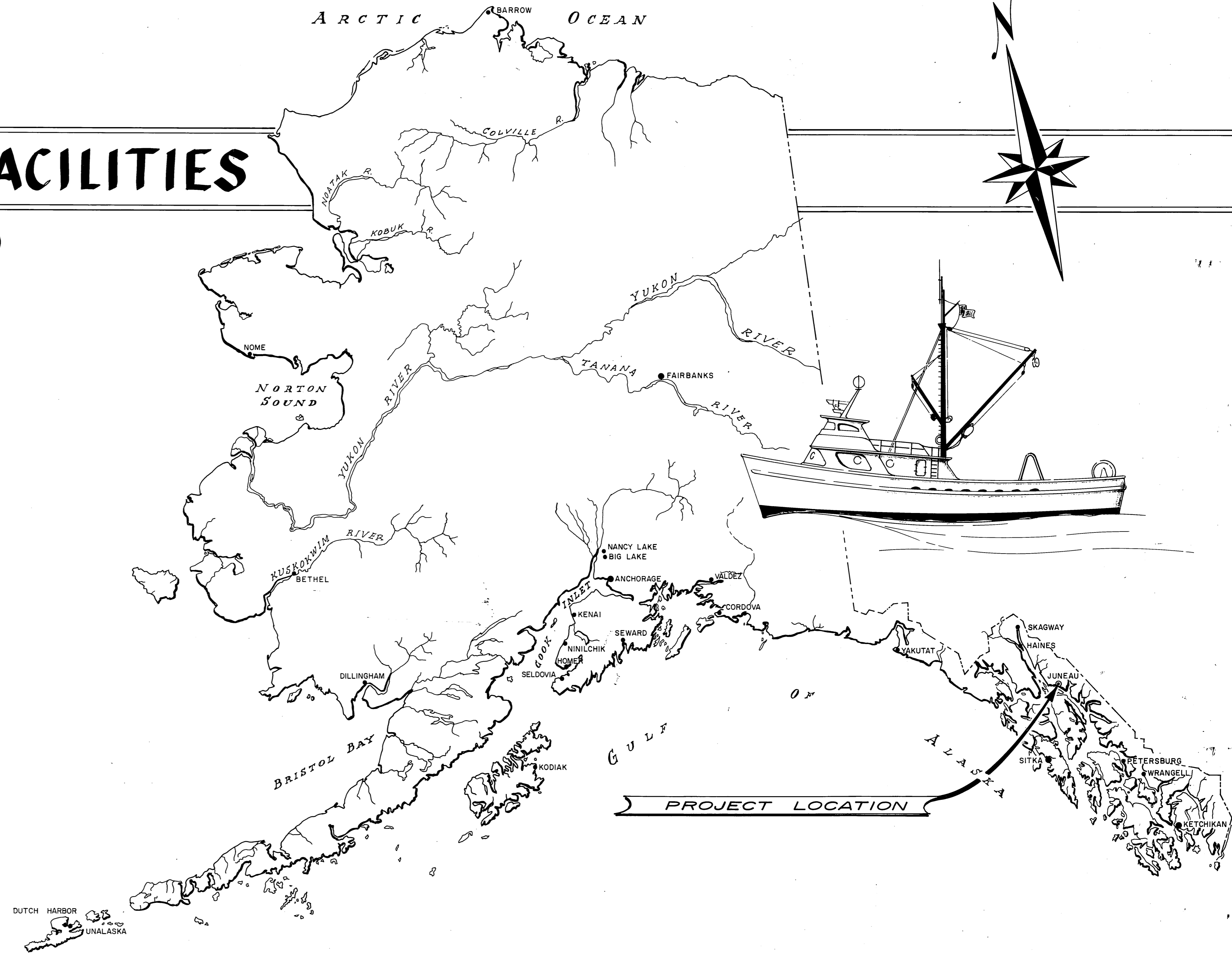


JUNEAU AURORA & HARRIS HARBOR FACILITIES PROJECT NO. 3-76180



WORK SUMMARY

AS BUILT

This project consists of furnishing and installing approximately 7174 square feet of concrete floats, 938 lineal feet of float piling, and reconstructing 3375 square feet of existing float superstructure. Other items of work include reconstructing a portion of an existing gridiron facility and making miscellaneous repairs to existing facilities.

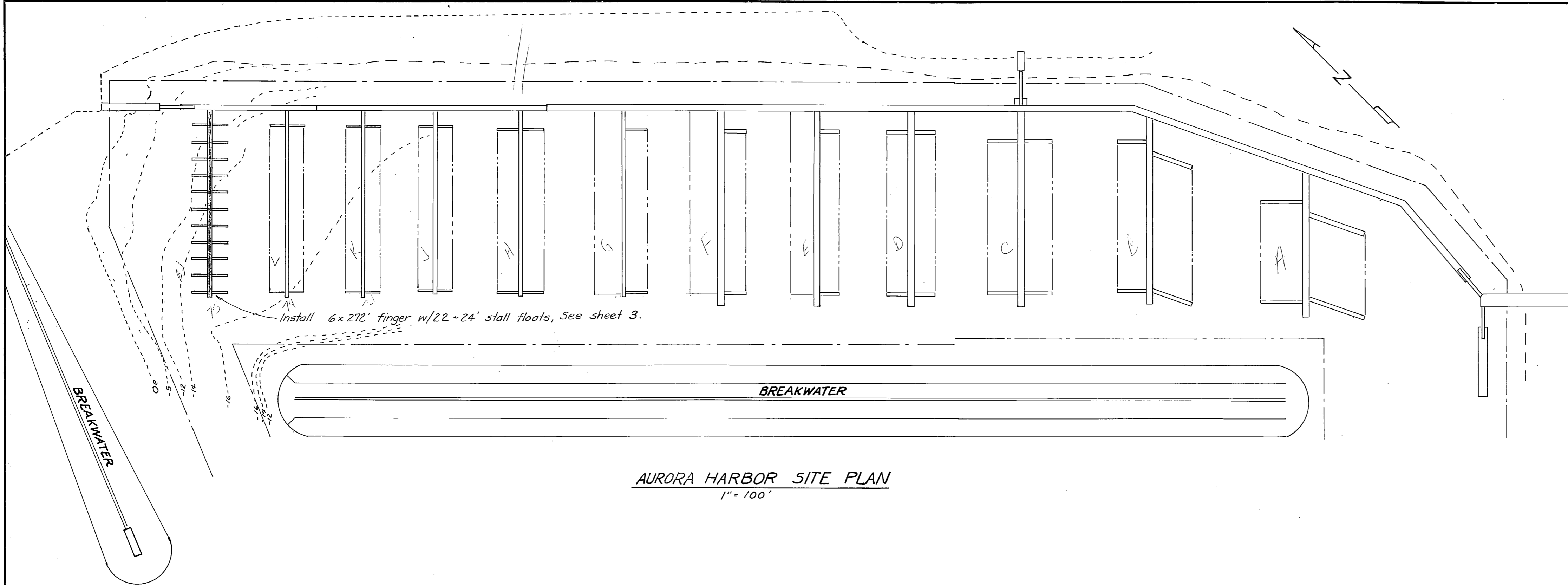
Alternates to this project consists of removing and disposing of an existing log-timber float and float piles, furnishing and installing approximately 2720 square feet of timber floats and 684 lineal feet of float piling, and dredging approximately 3000 cy of granular material.

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

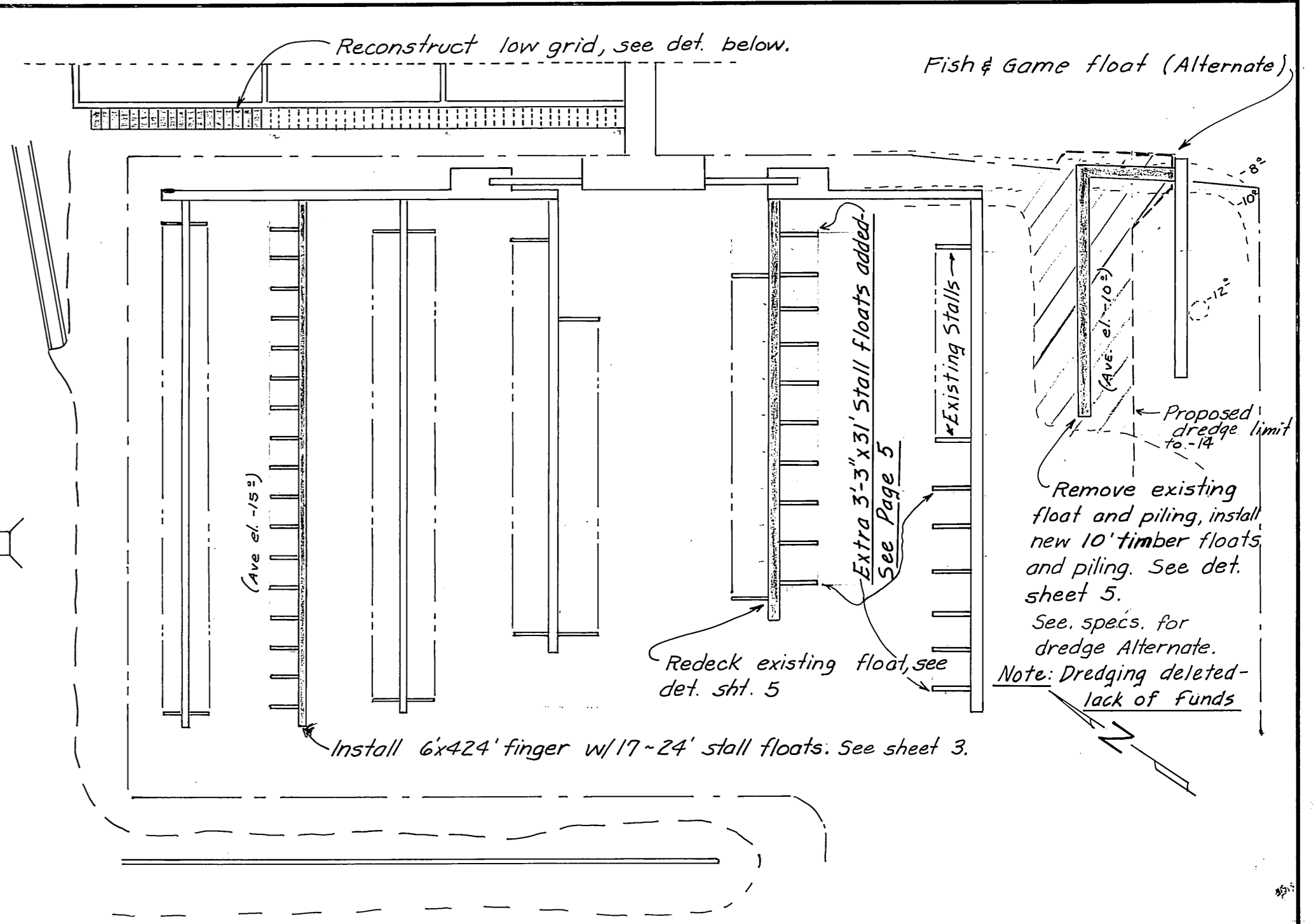
INDEX TO SHEETS

1 Title Sheet	7 10' Float Construction Details
2 Site Plan and Grid Details	
3 Stall Float Layout and Angle Brace Det.	
4 Standard Float Units, 6x8 & 3x12	
5 Float Reconstruction, Stringer Diagrams	
6 Float Connection Details	

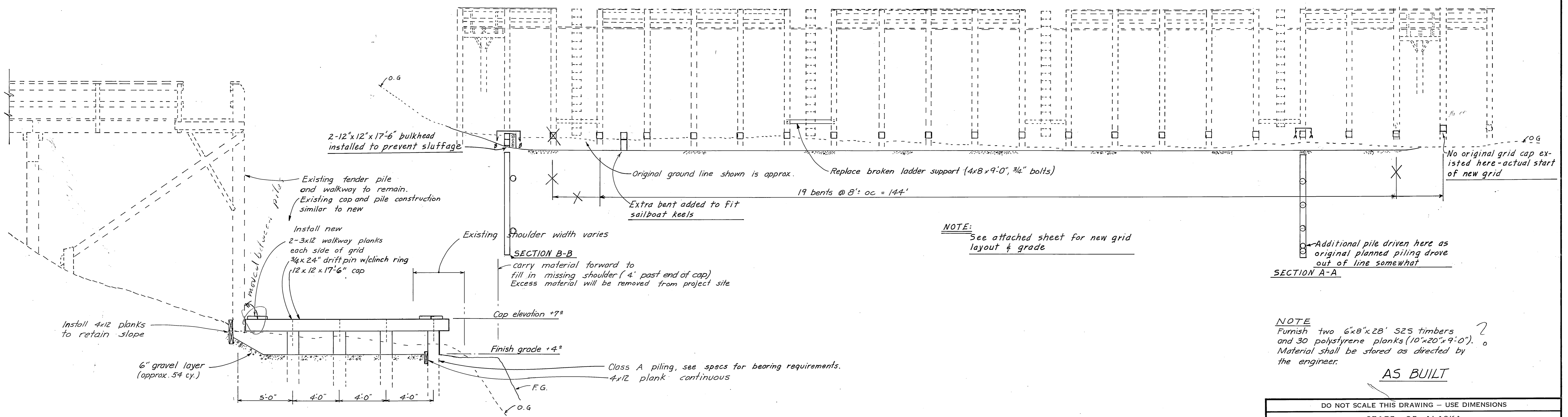
APPROVED
[Signature]
DIRECTOR
DATE 11/18/75
SHEET 1 OF 7



AURORA HARBOR SITE PLAN
1" = 100'



HARRIS HARBOR SITE PLAN
1" = 100'



NOTE:
See attached sheet for new grid layout & grade

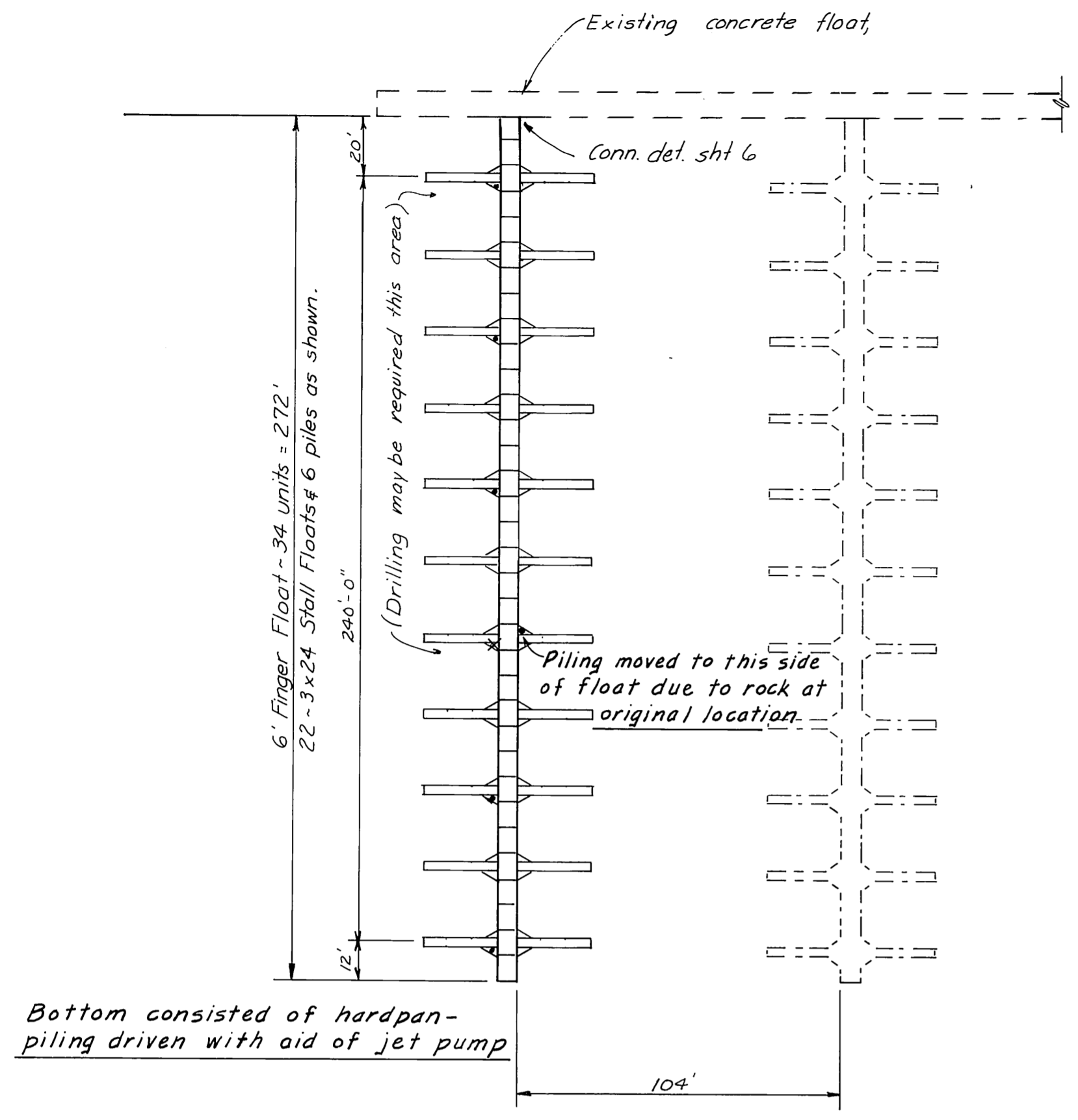
NOTE
Furnish two 6"x8"x28' S25 timbers and 30 polystyrene planks (10"x20"x9'-0"). Material shall be stored as directed by the engineer.

AS BUILT

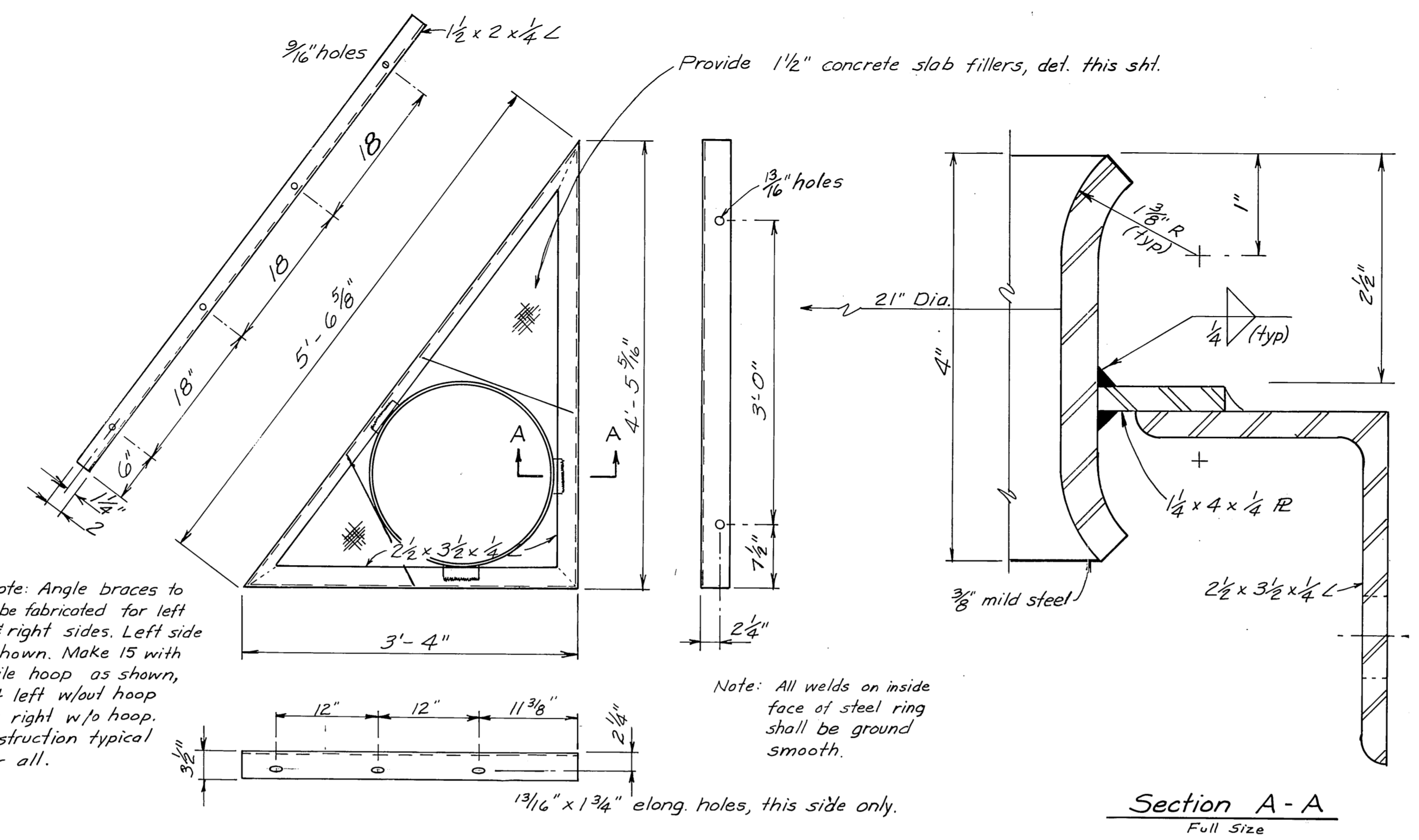
Note: Existing Lower grid caps and bearing piles are to be removed and disposed of. Excavate to 6 inches below finish grade and backfill w/ 6 inch layer of gravel.



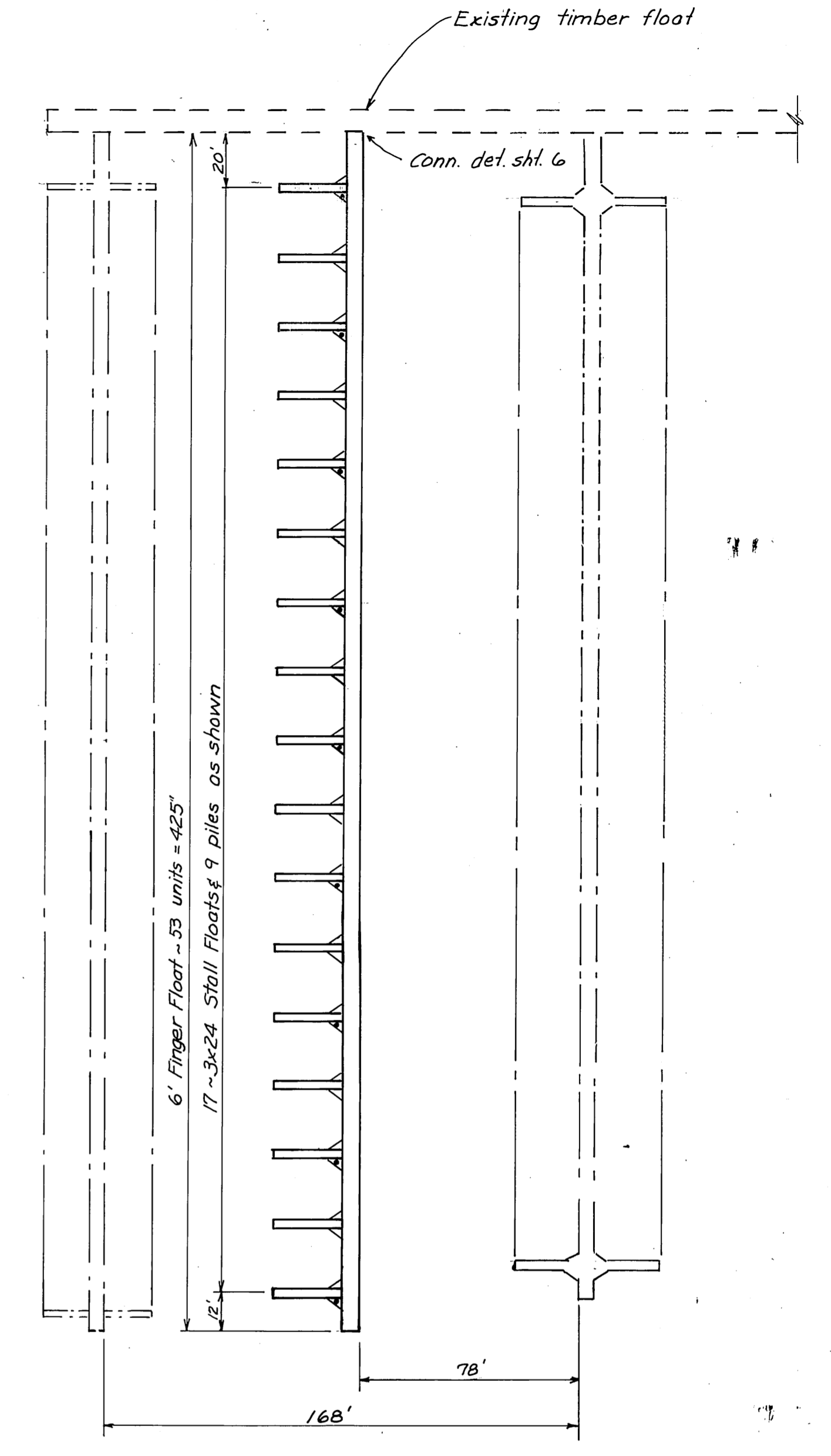
DO NOT SCALE THIS DRAWING - USE DIMENSIONS		
STATE OF ALASKA DEPARTMENT OF PUBLIC WORKS DIVISION OF WATER AND HARBORS		
HARRIS AURORA		JUNEAU
SITE PLAN & GRID DETAILS		
SCALE <i>As noted</i>	SURVEYED	APPROVED
DESIGNED <i>MM</i>	DRAWN <i>MM</i>	<i>Don Stoffer</i> DIRECTOR
CHECKED	DATE <i>Oct 75</i>	
PROJECT NUMBER <i>3-76180</i>	SHEET <i>2</i> OF <i>7</i>	



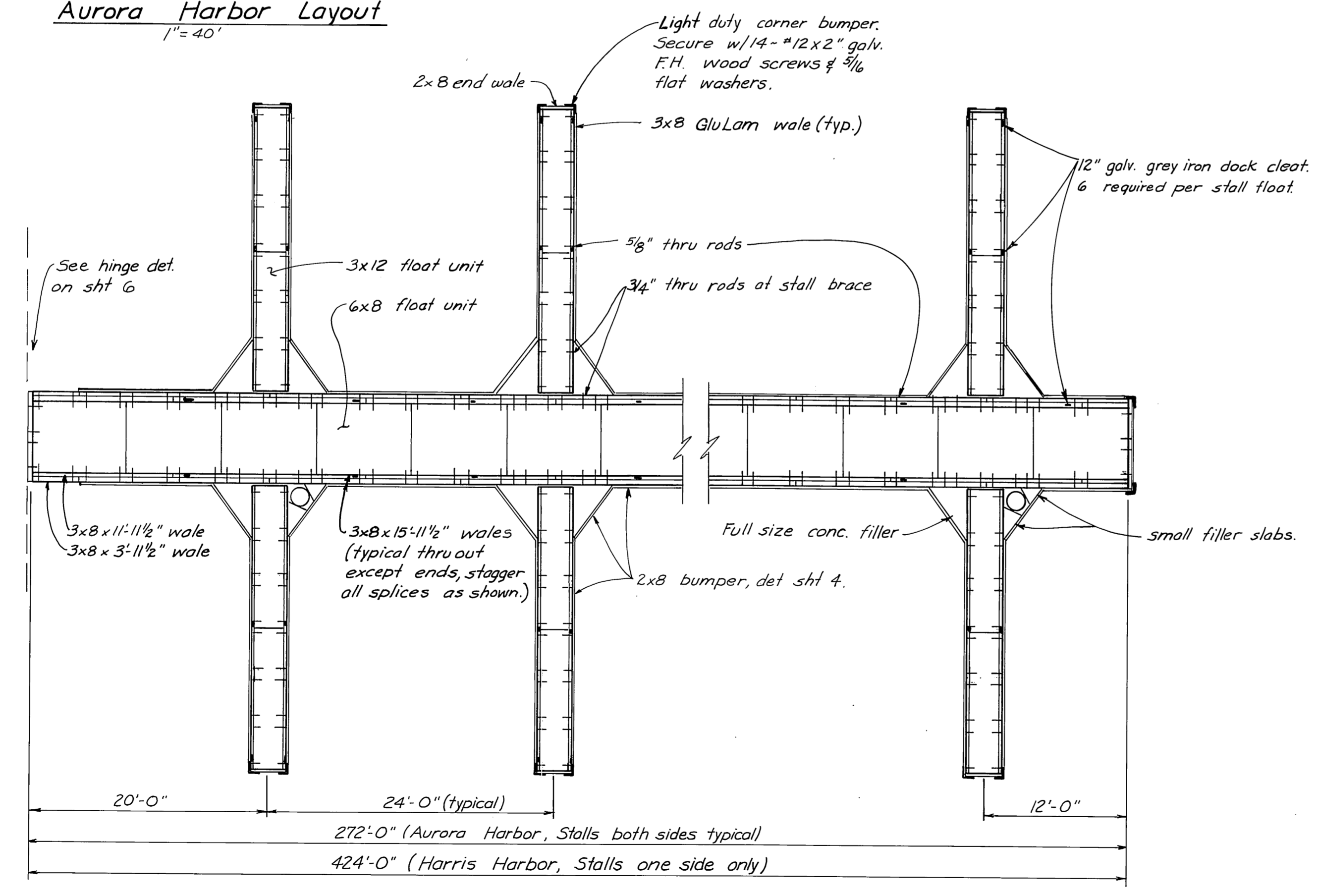
Aurora Harbor Layout
1" = 40'



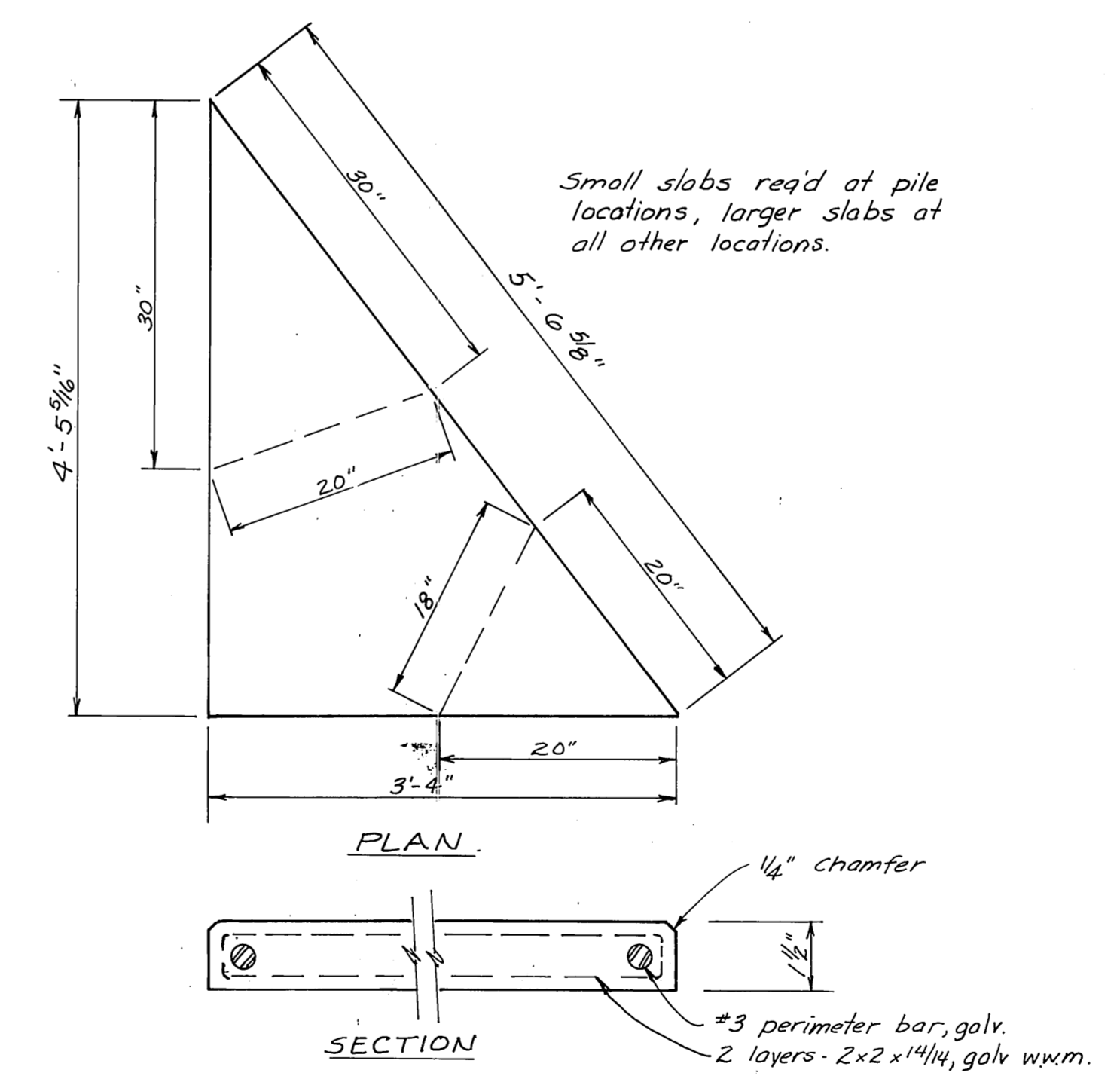
Float Angle Brace Detail
1" = 1'-0"



Harris Harbor Layout
1" = 40'



Stall Float Plan
1/8" = 1'-0"



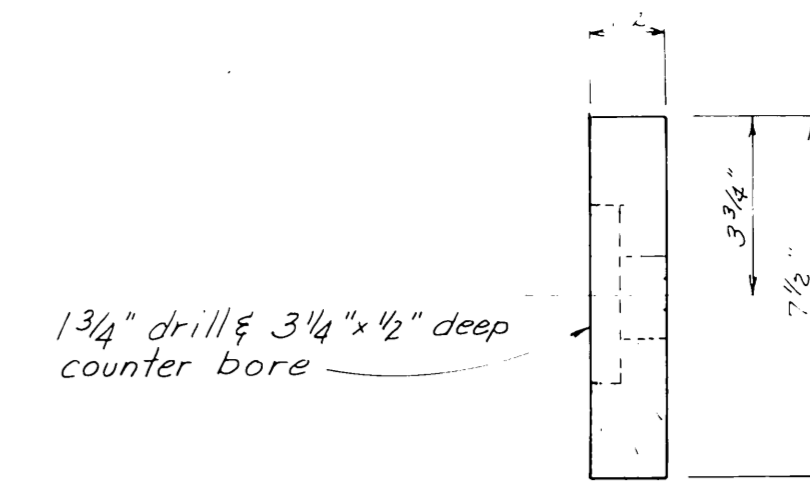
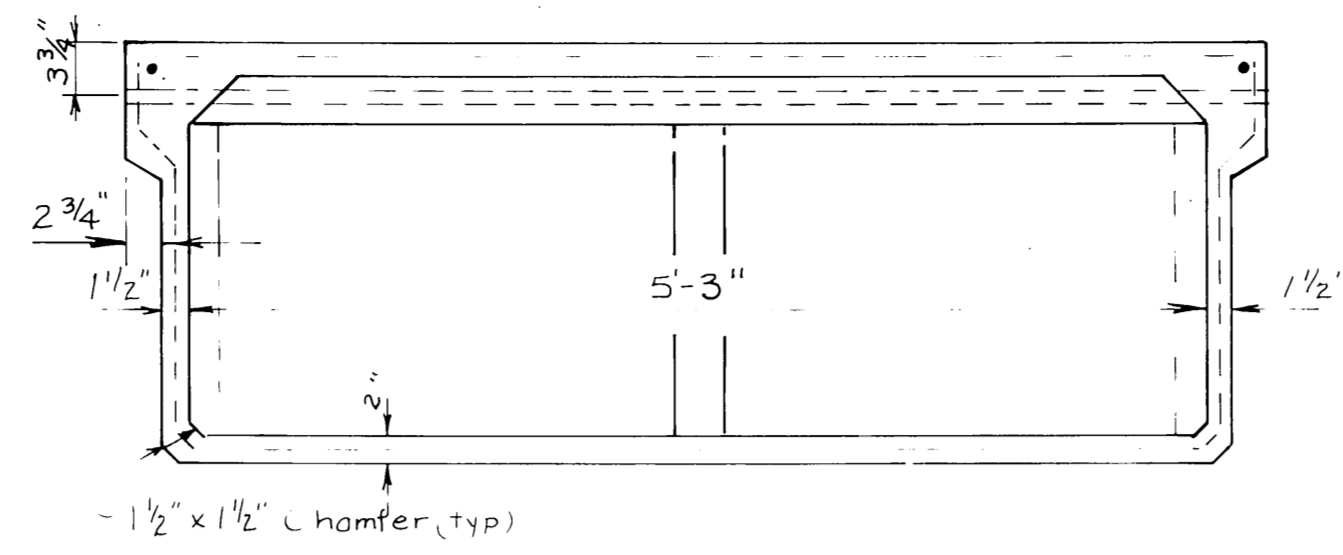
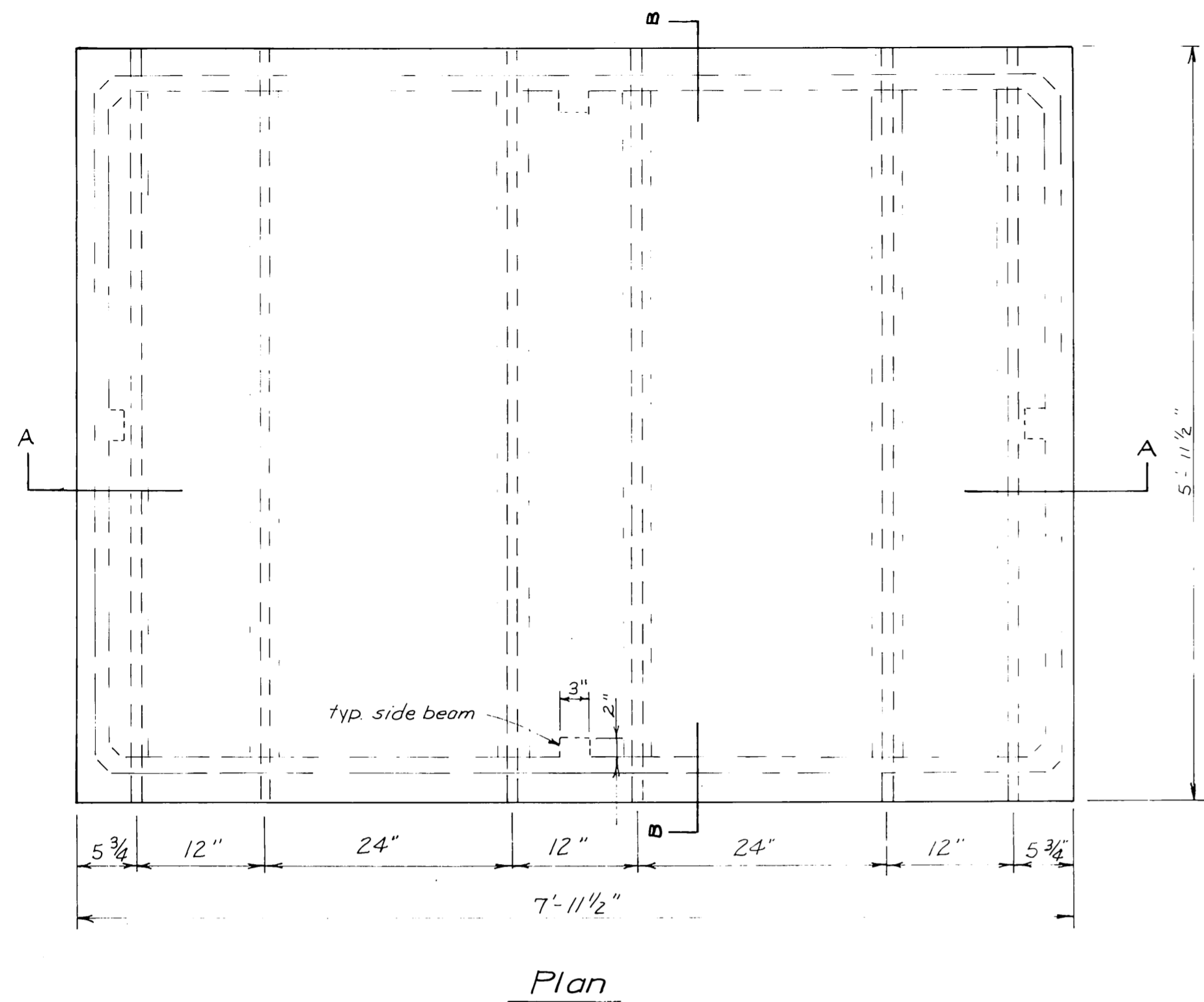
Concrete Filler Slab Detail
no scale

- Note: 1. Float piles to be driven butt down to 15' penetration or refusal as determined by the engineer.
2. Pile cutoff to be +34 at Aurora; +32 at Harris.
3. All float dimensions are nominal face of concrete to face of concrete.

AS BUILT

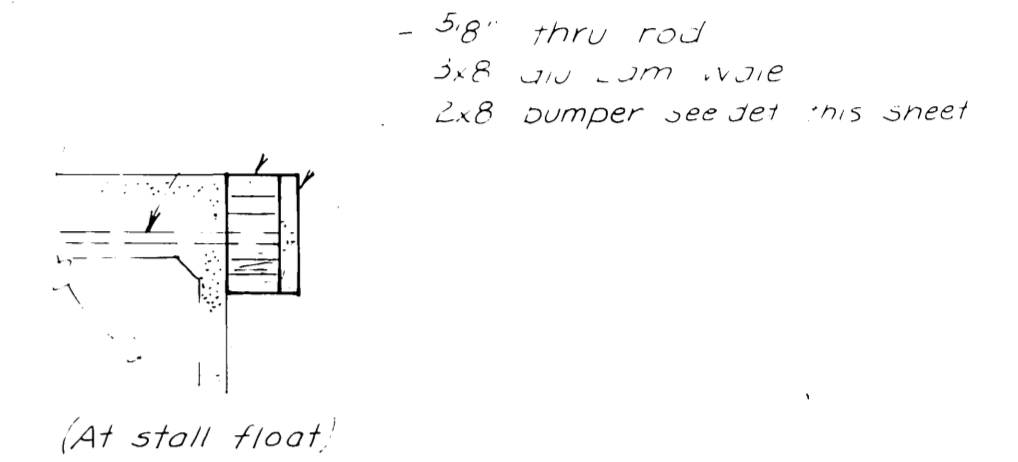
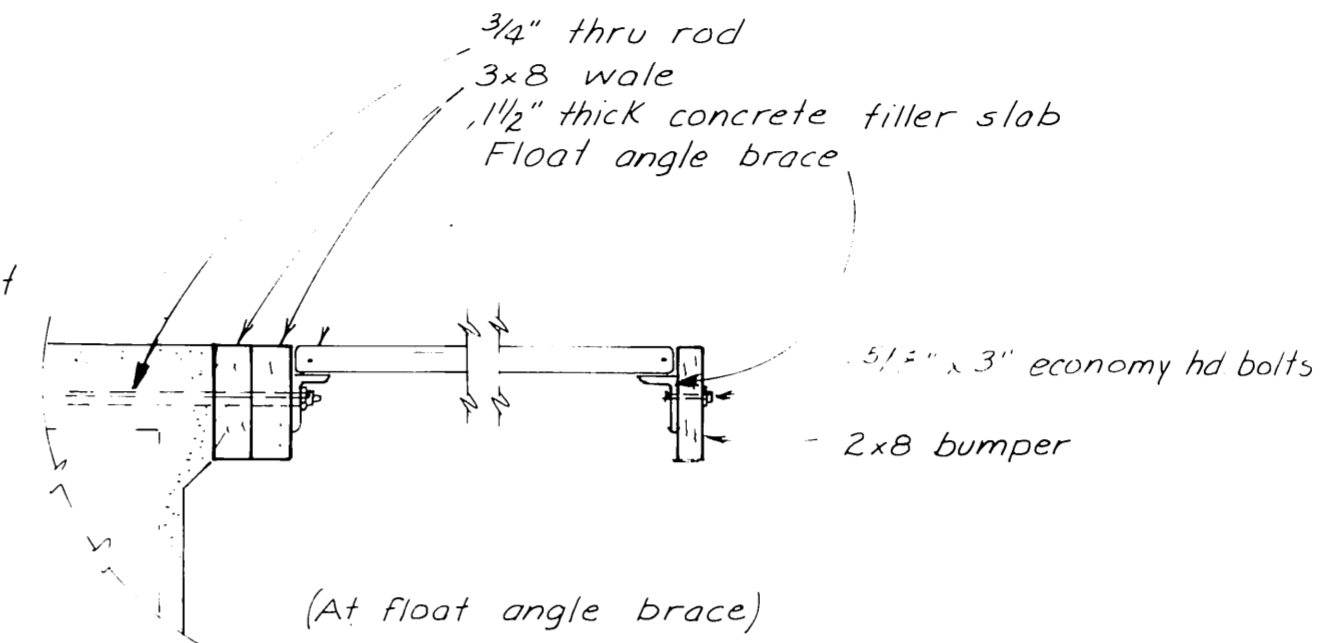
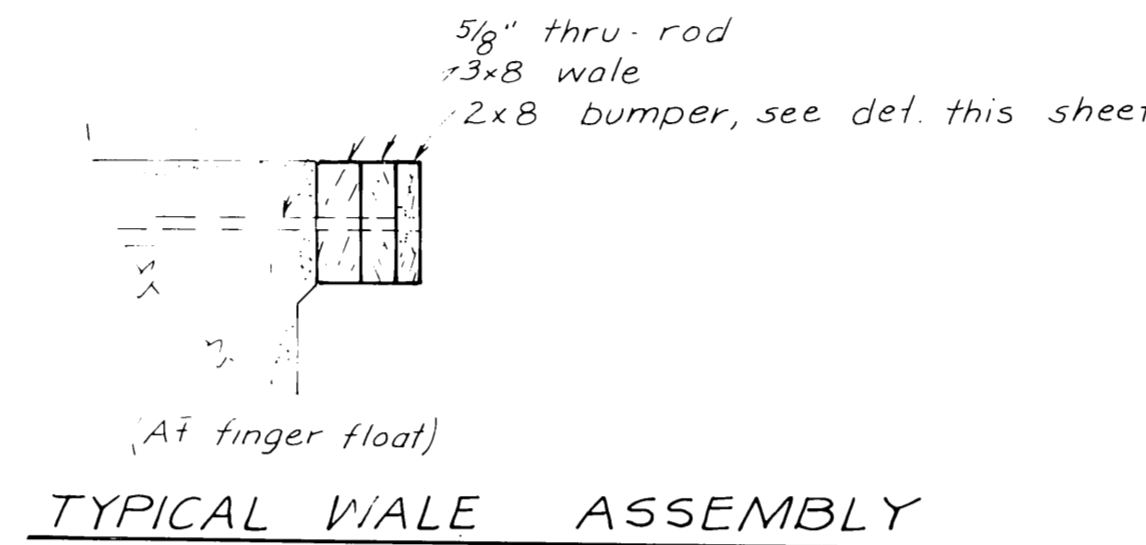


DO NOT SCALE THIS DRAWING - USE DIMENSIONS		
STATE OF ALASKA DEPARTMENT OF PUBLIC WORKS DIVISION OF WATER AND HARBORS		
HARRIS	AURORA	JUNEAU
STALL FLOAT LAYOUT & ANGLE BRACE DETAILS		
SCALE <i>As noted</i>	SURVEYED	APPROVED
DESIGNED <i>FM</i>	DRAWN <i>FM</i>	<i>Don Statter</i>
CHECKED	DATE <i>Oct 75</i>	DIRECTOR
PROJECT NUMBER <i>3-76180</i>	SHEET <i>3</i> OF <i>7</i>	



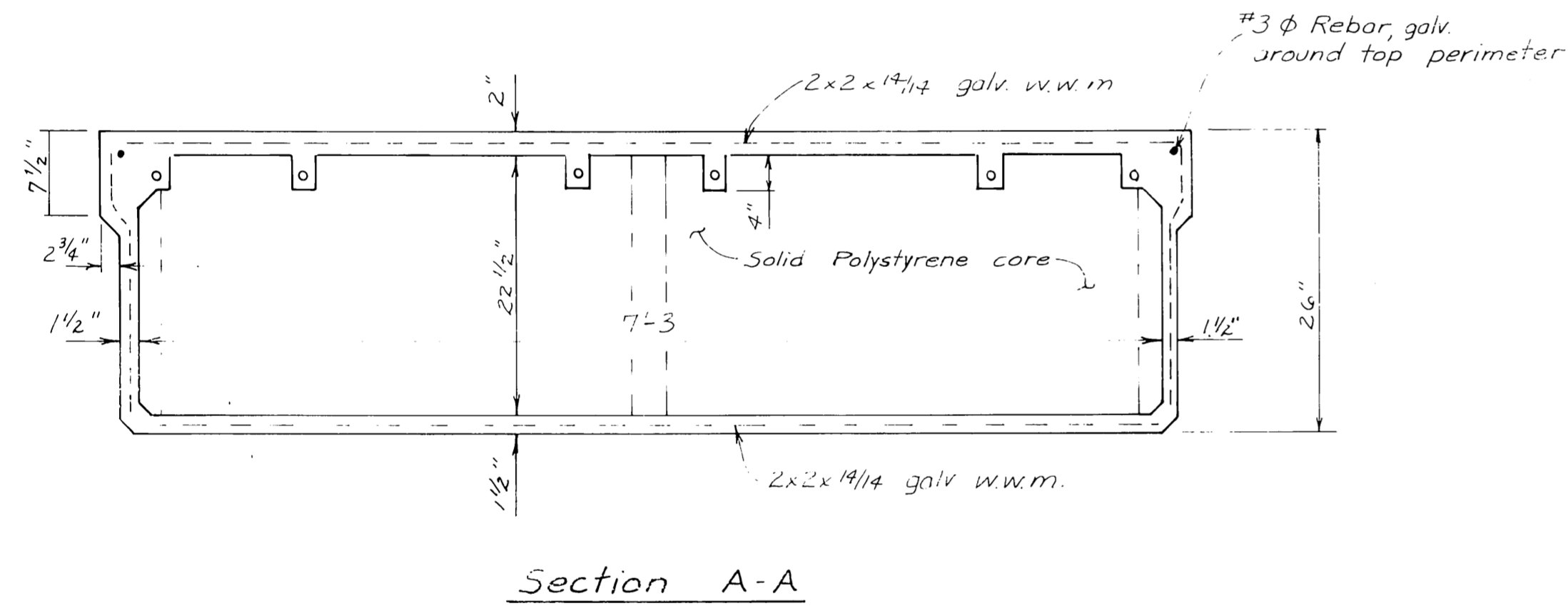
TYPICAL BUMPER BOARD
no scale

Section B-B

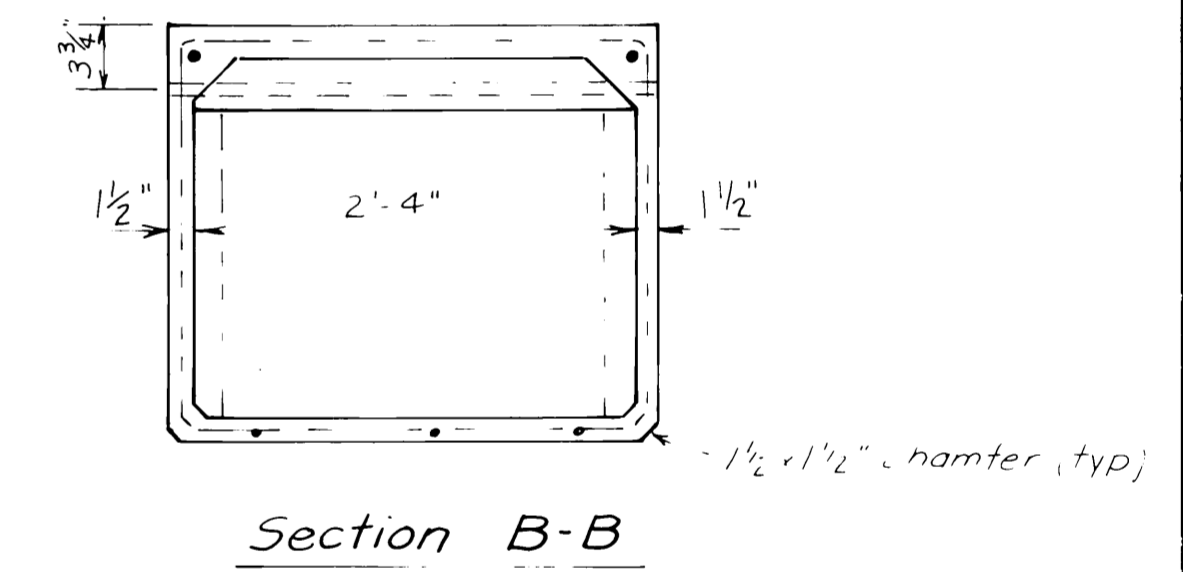
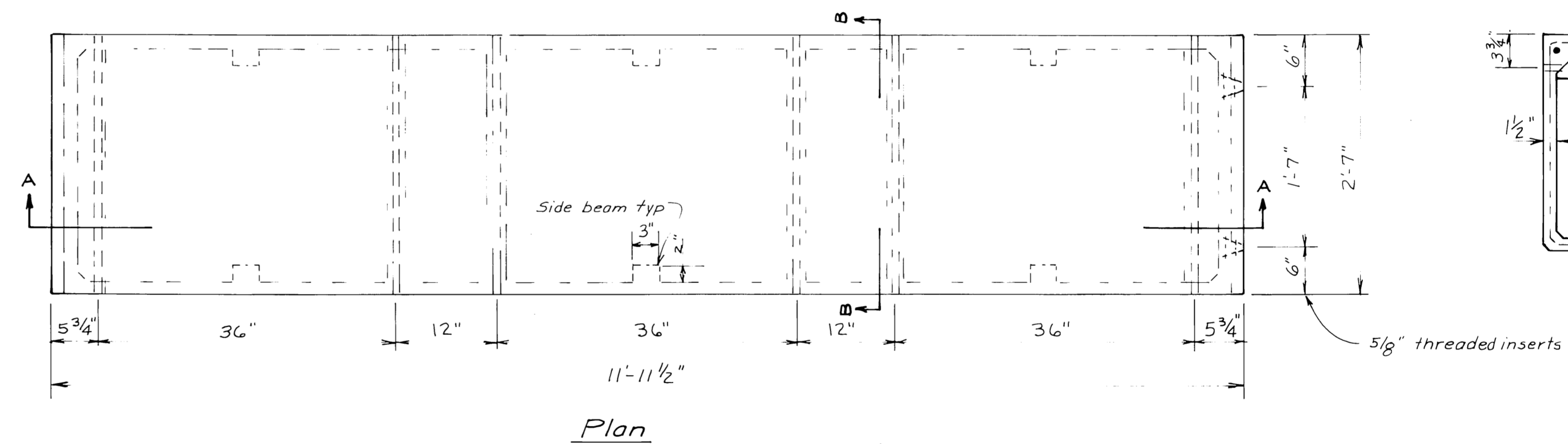


TYPICAL WALE ASSEMBLY

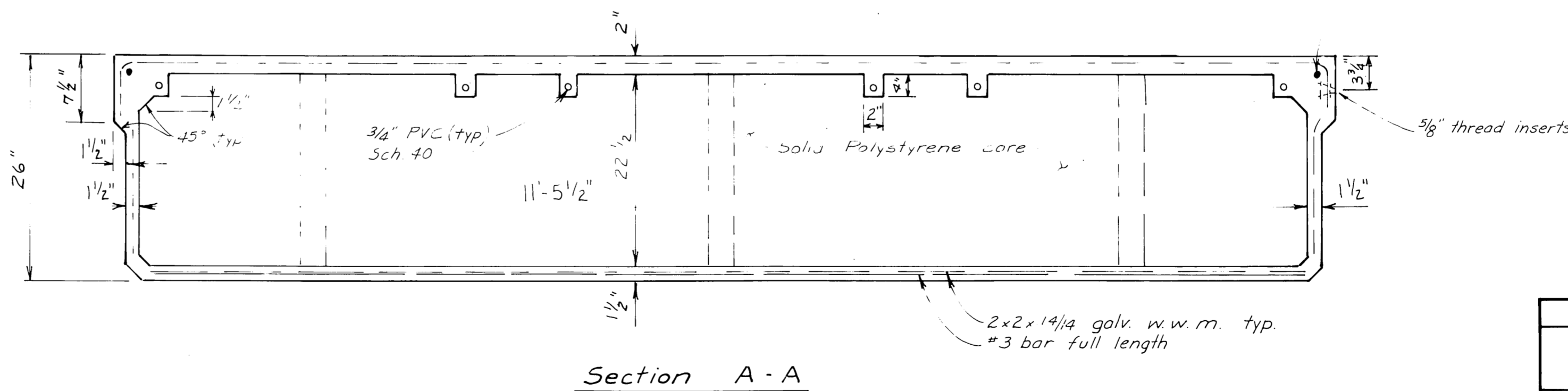
TYPICAL GLU-LAM ASSEMBLY



6 x 8 STANDARD FLOAT

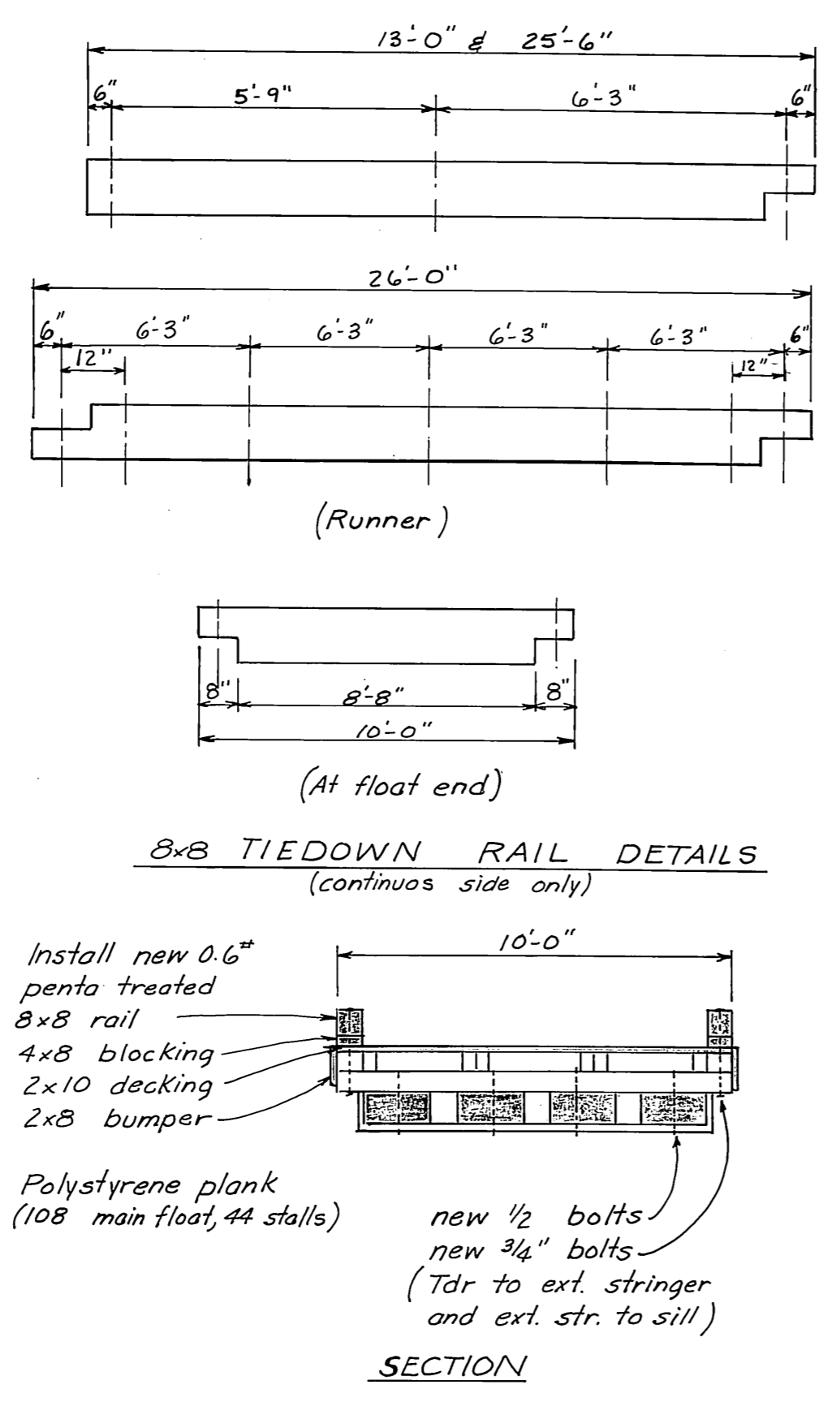
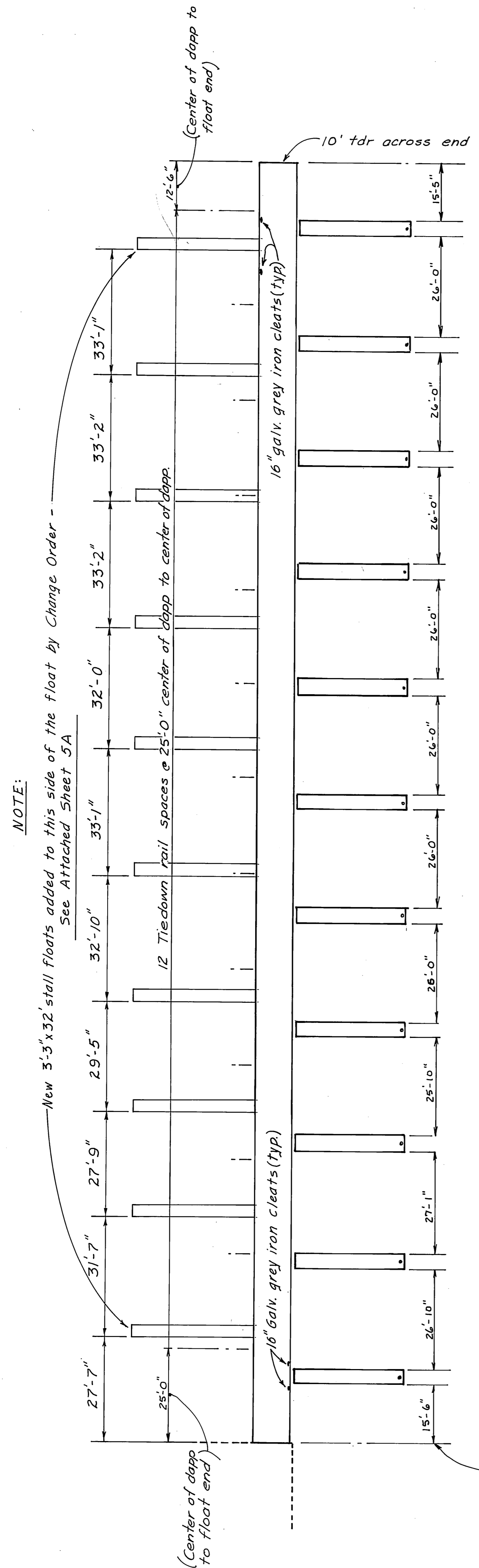


3 x 12 STANDARD STALL FLOAT



AS BUILT

DO NOT SCALE THIS DRAWING - USE DIMENSIONS		
STATE OF ALASKA DEPARTMENT OF PUBLIC WORKS DIVISION OF WATER AND HARBORS		
HARRIS	AURORA	JUNEAU
STANDARD FLOAT UNITS		
6 x 8 & 3 x 12		
SCALE 1" = 1'-0"	DESIGNED DRAWN DATE OCT 75	APPROVED Don Statter DIRECTOR
PROJECT NUMBER 3-76180	SHEET 4 OF 7	

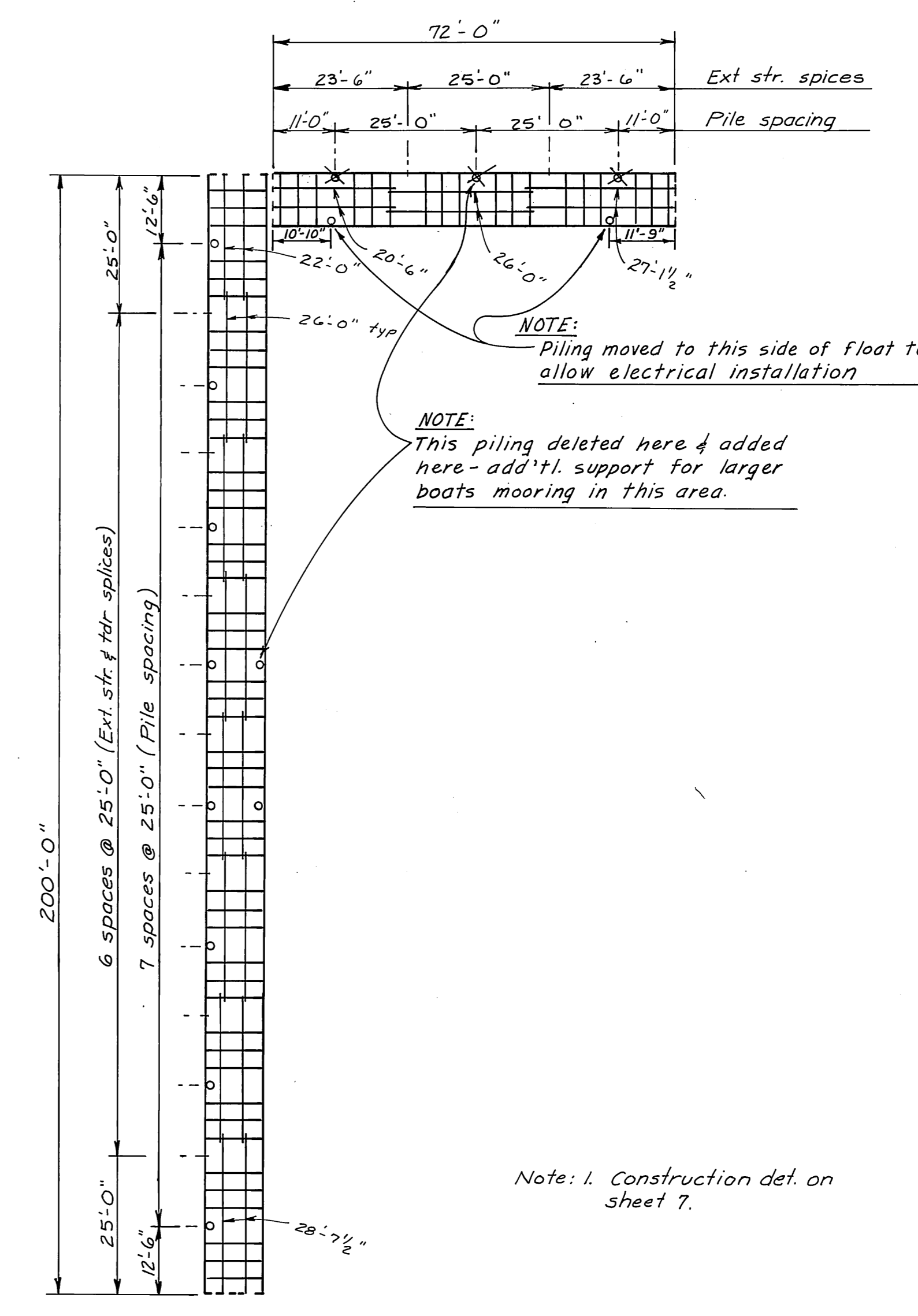
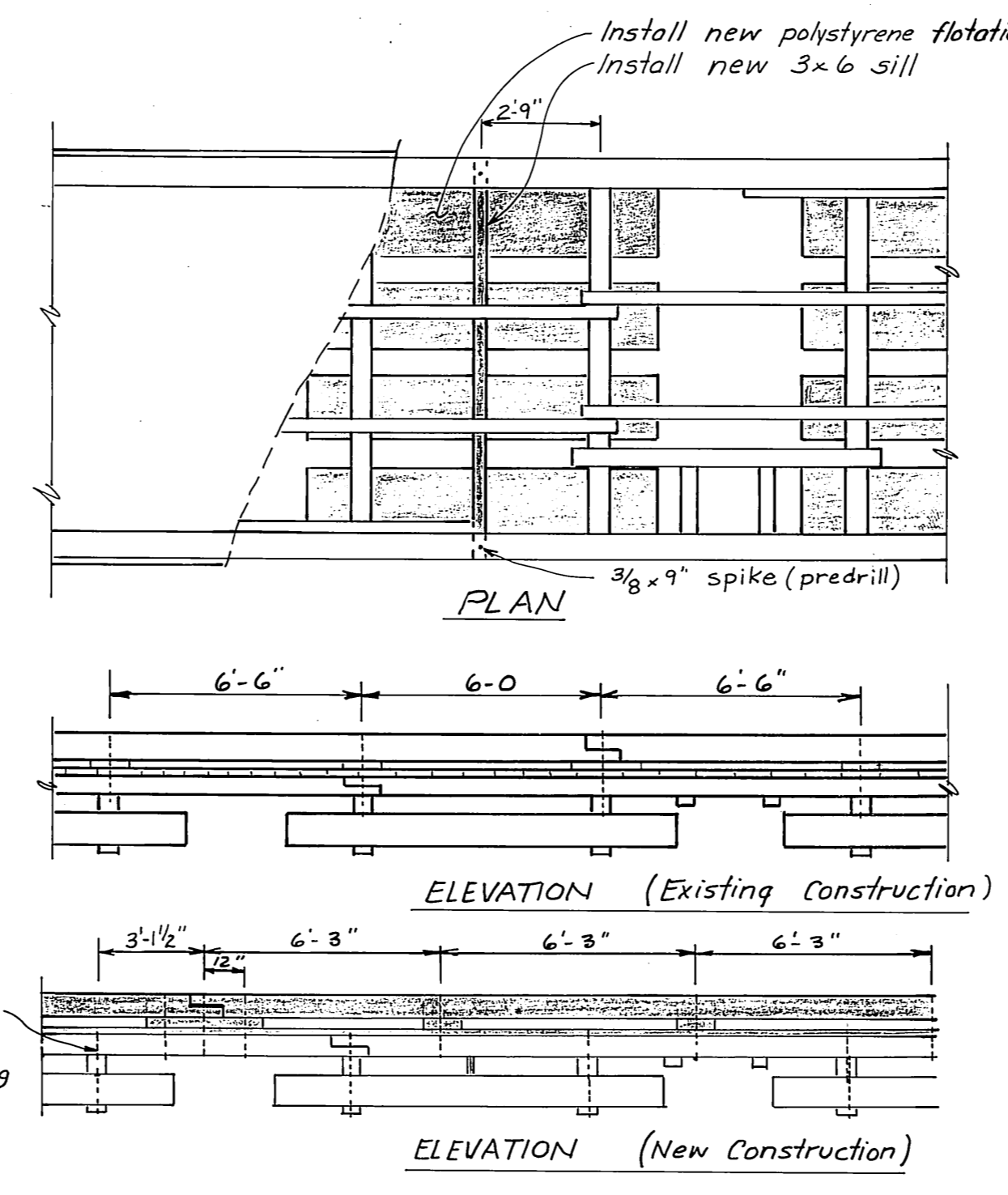


HARRIS HARBOR FLOAT #2 RECONSTRUCTION

Note: 1. New decking not required on existing stall floats.
 2. Replace all foam under existing stall floats. (4 per stall)
 3. Construction details not noted shall conform to new float construction Detail sheet 7.

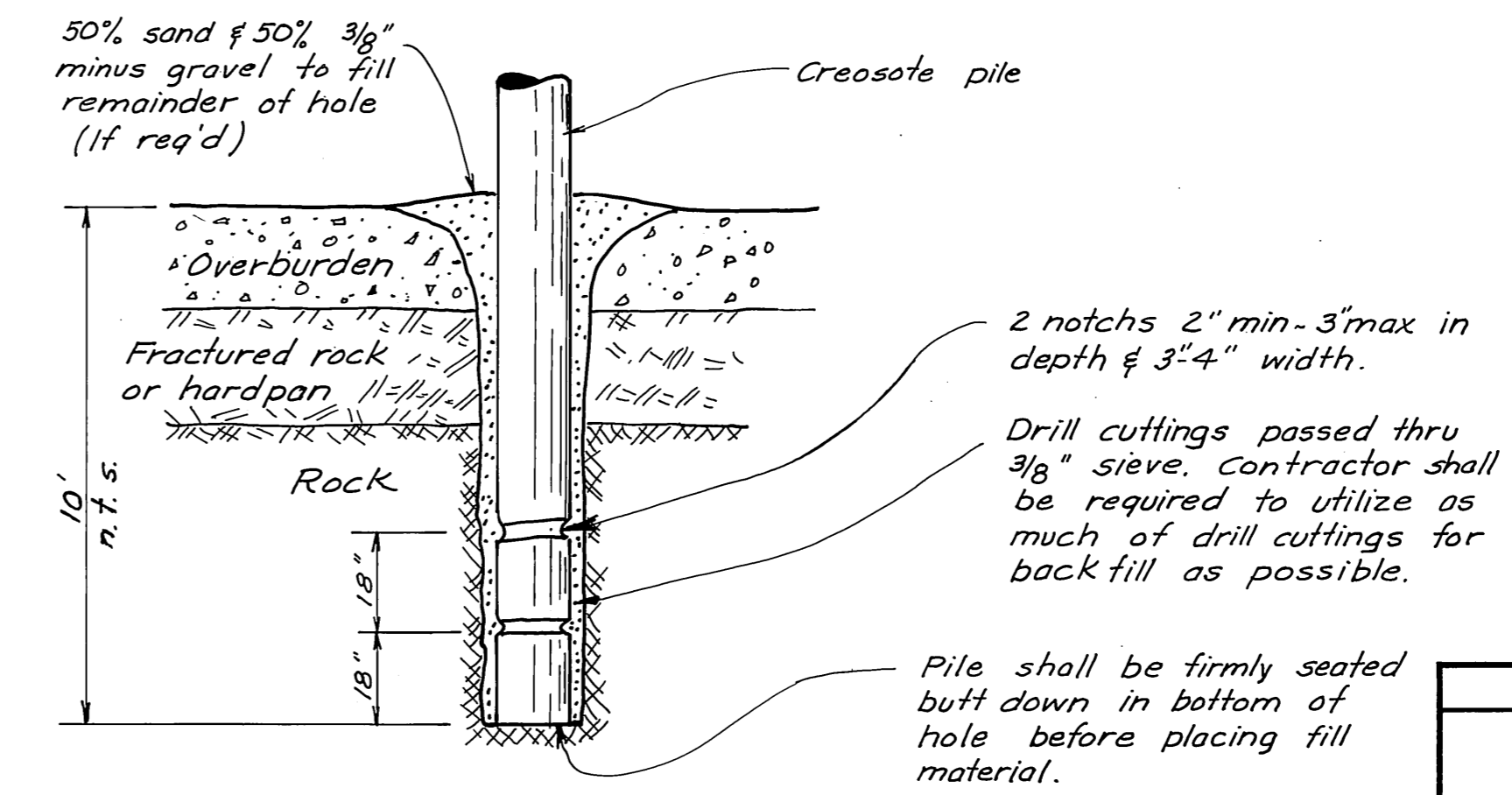
NOTE:
 Bullrail on main float deleted & 16" galv. dock cleats installed

Tiedown rail lengths, butt end to butt end, this side.
 Pre-drill for 3/4" bolts (0'-6" from rail ends and 6'-3" typ spacing from one end).
 (Last dimensions may exceed 6'-3" where necessary)



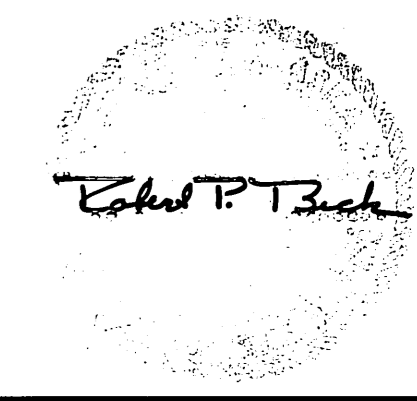
**STRINGER DIAGRAM
 HARRIS HARBOR FISH & GAME FLOAT**
 1" = 20'

Note: 1. Construction det. on sheet 7.

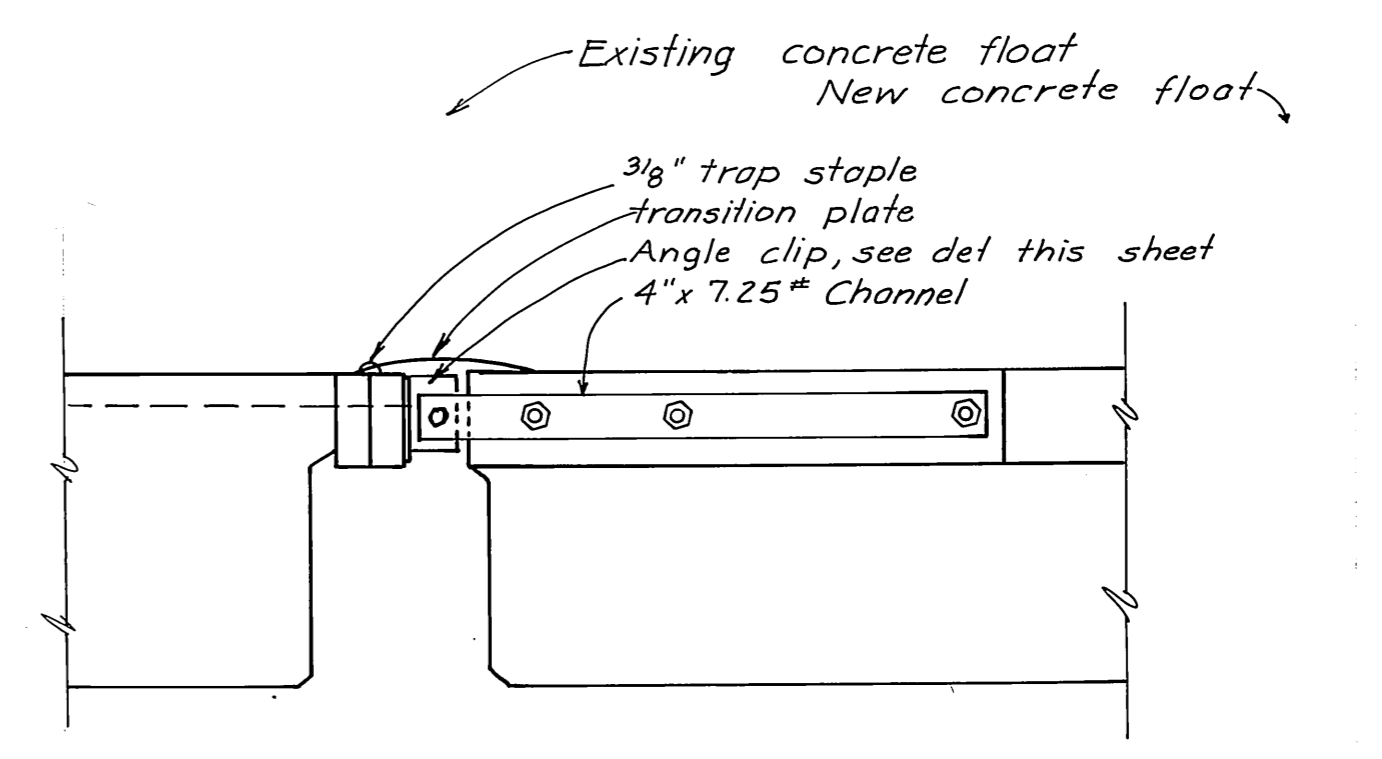
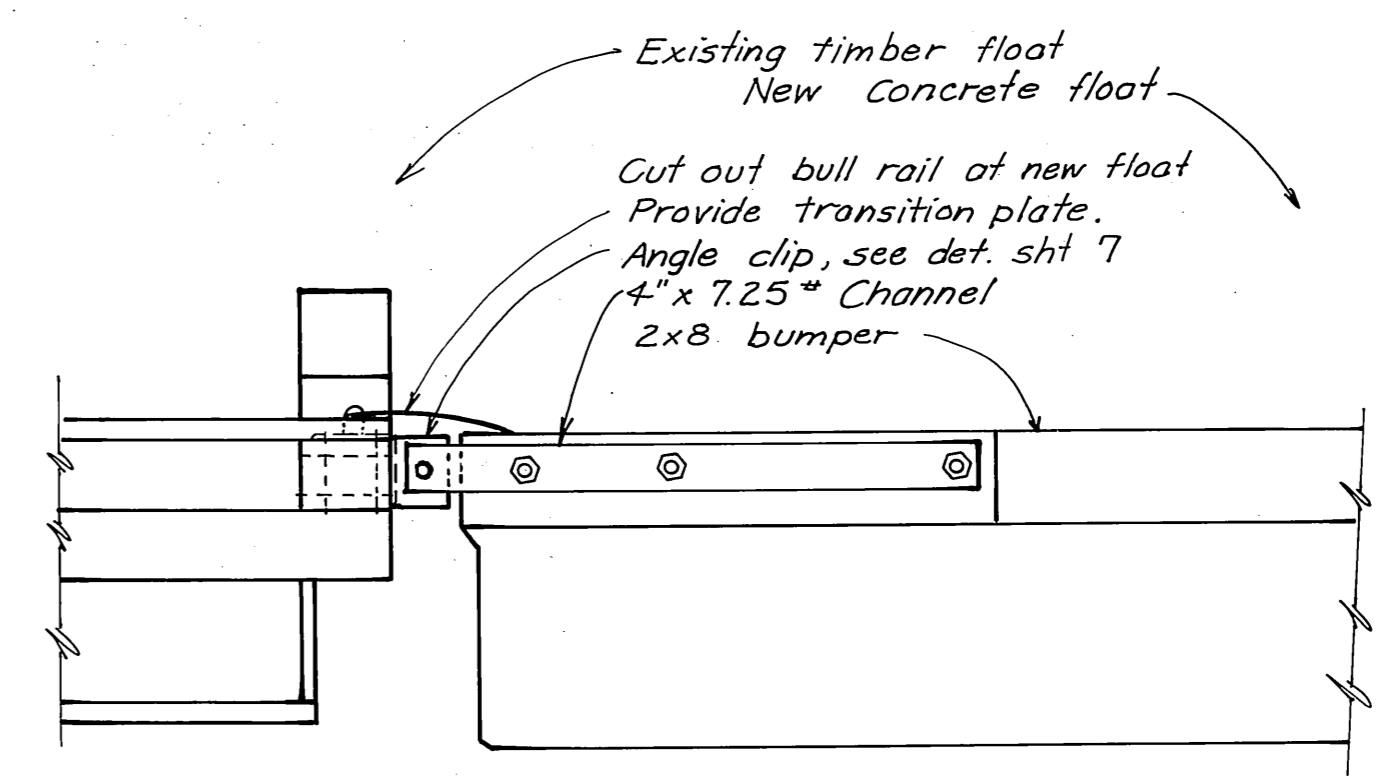
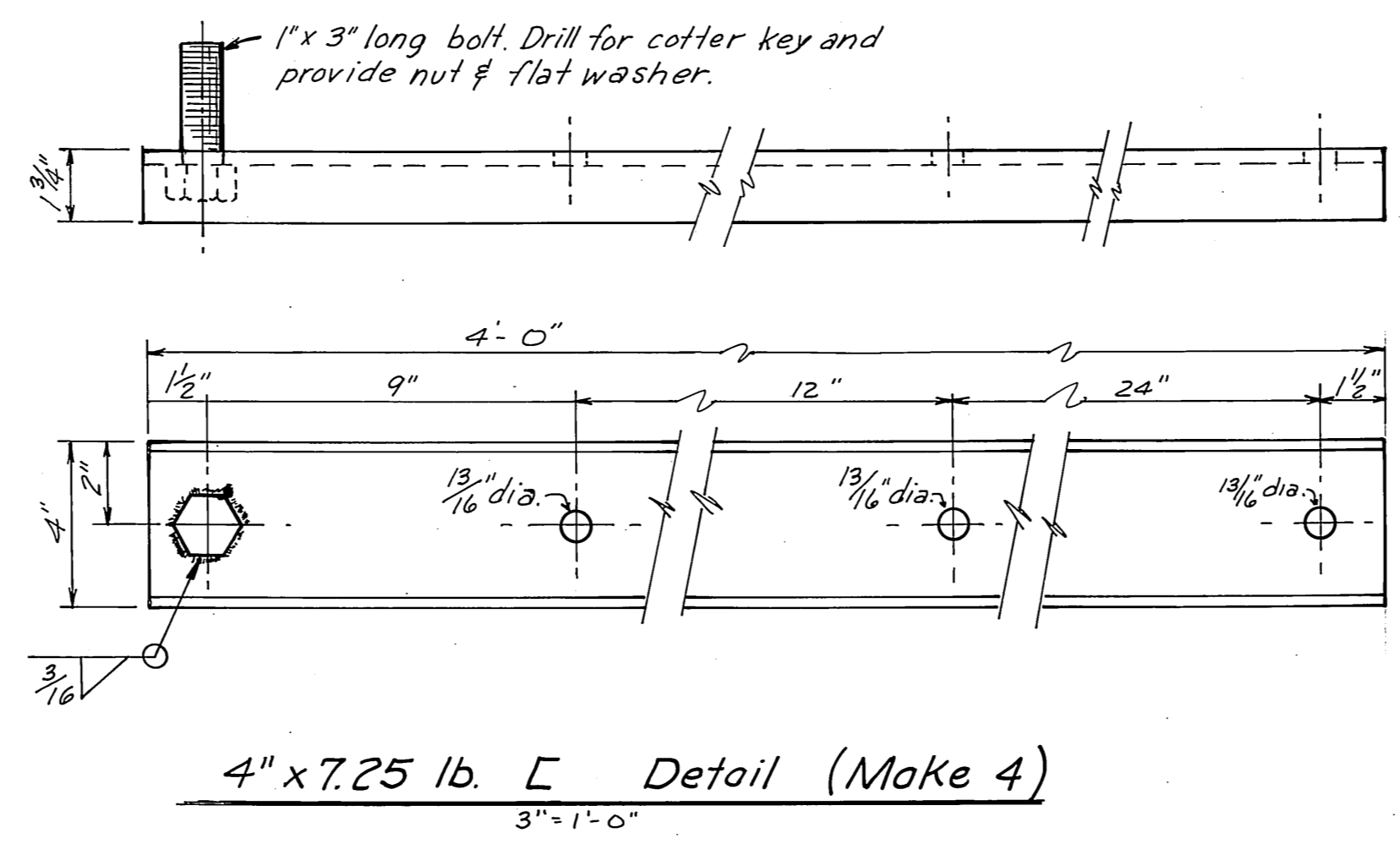


TYPICAL DRILL HOLE & PILE INSTALLATION
 3/8" = 1'-0"

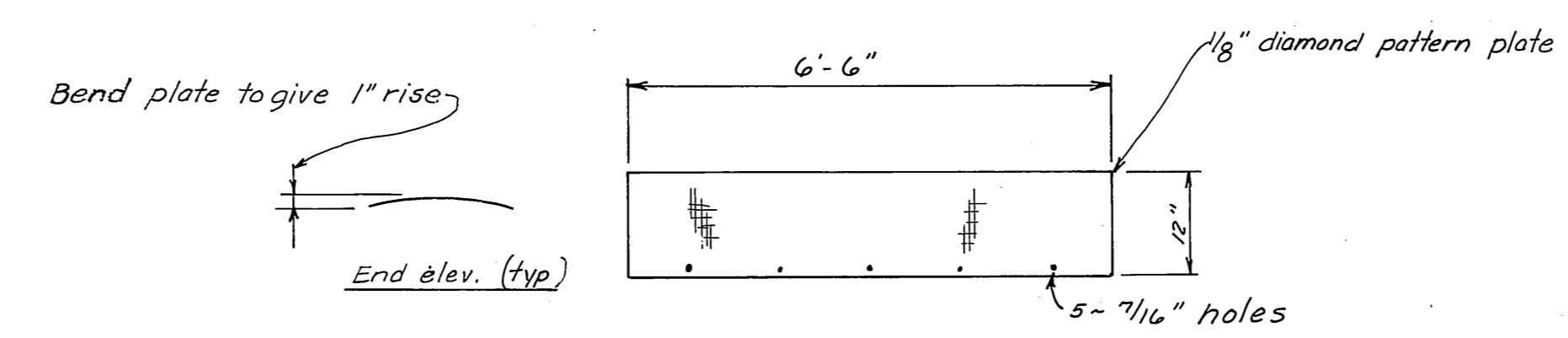
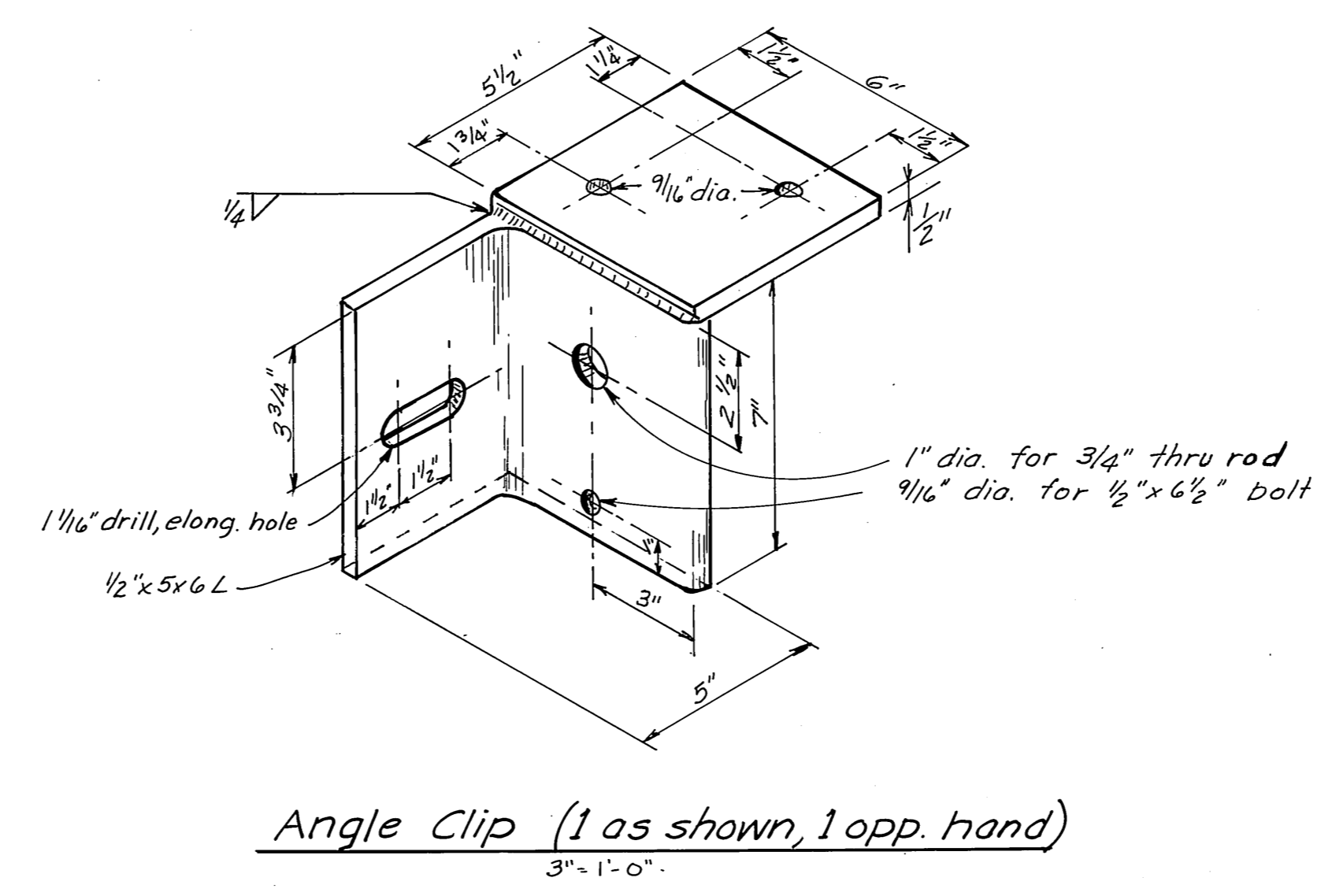
AS BUILT



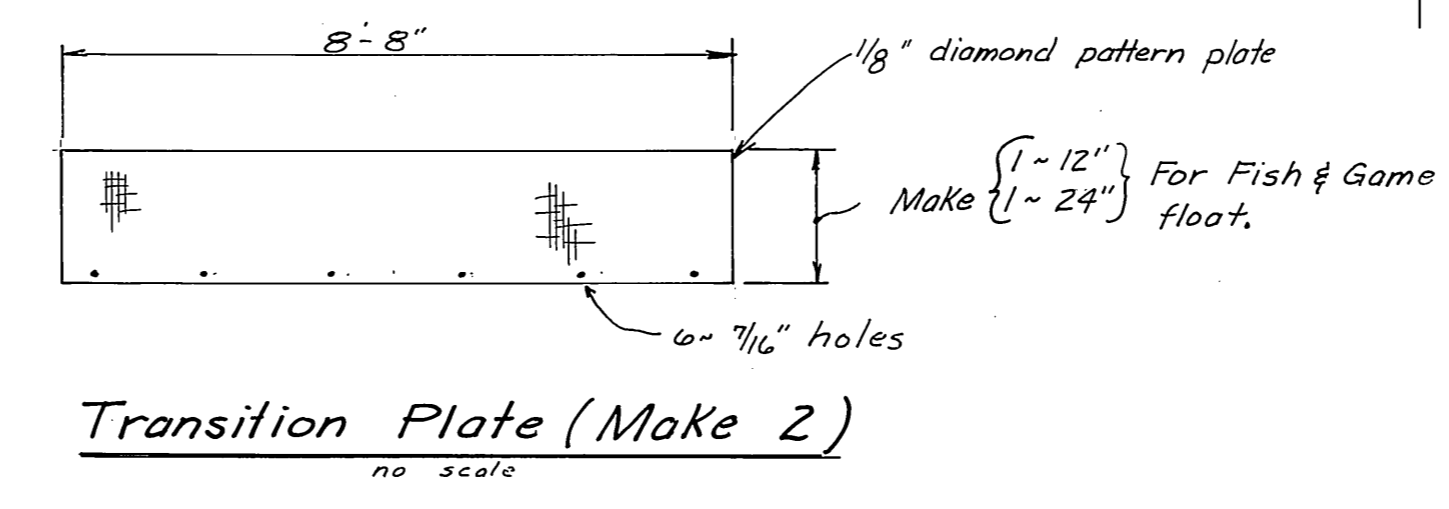
DO NOT SCALE THIS DRAWING - USE DIMENSIONS		
STATE OF ALASKA DEPARTMENT OF PUBLIC WORKS DIVISION OF WATER AND HARBORS		
HARRIS - AURORA		JUNEAU
FLOAT RECONSTRUCTION, STRINGER DIAGRAMS & DETAILS		
SCALE <i>As noted</i>	SURVEYED <i>HM</i>	APPROVED
DESIGNED <i>HM</i>	DRAWN <i>HM</i>	Don Statter DIRECTOR
CHECKED _____	DATE <i>Oct 75</i>	
PROJECT NUMBER <i>3-76180</i>	SHEET <i>5</i> OF <i>7</i>	



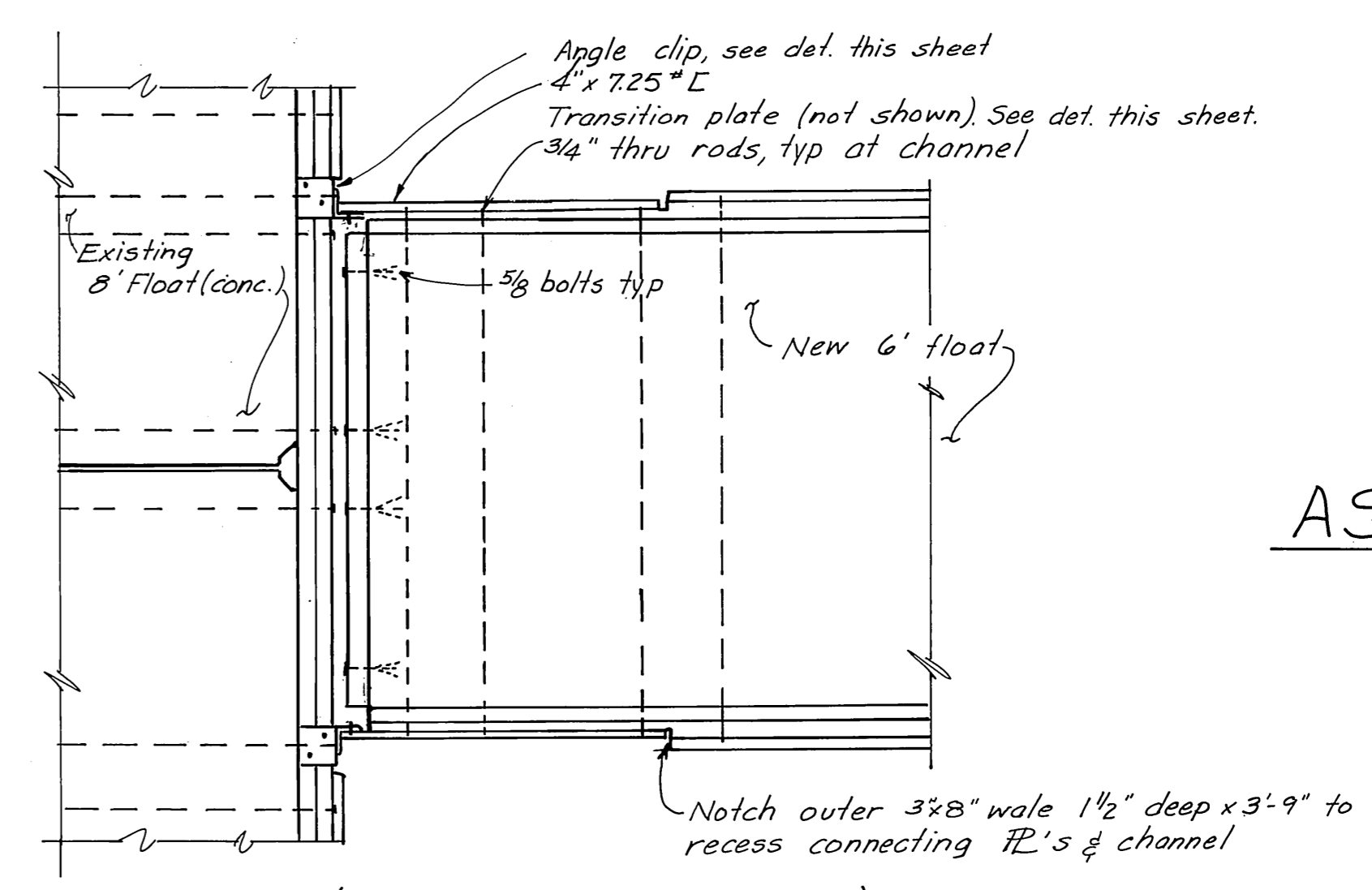
Elevations (Timber to concrete, Harris Harbor)
3/4" = 1'-0" (Concrete to concrete, Aurora Harbor)



Transition Plate (Make 2)
no scale

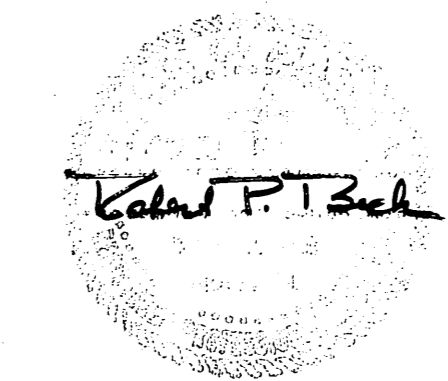


Transition Plate (Make 2)
no scale

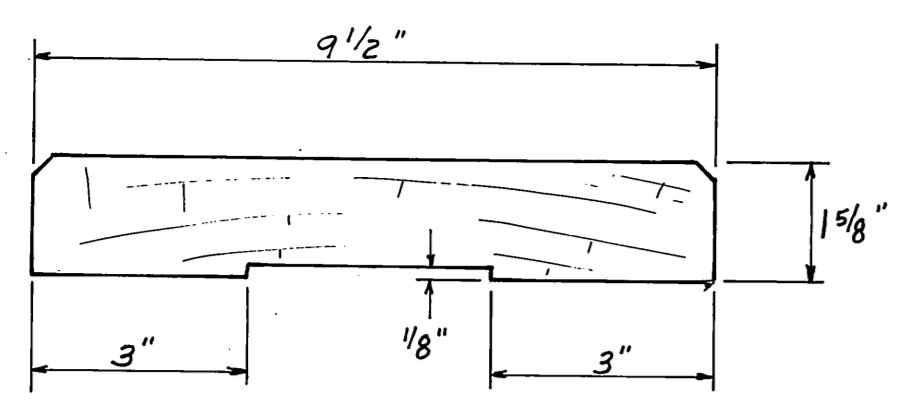


Plan (Concrete to concrete)
1/2" = 1'-0"

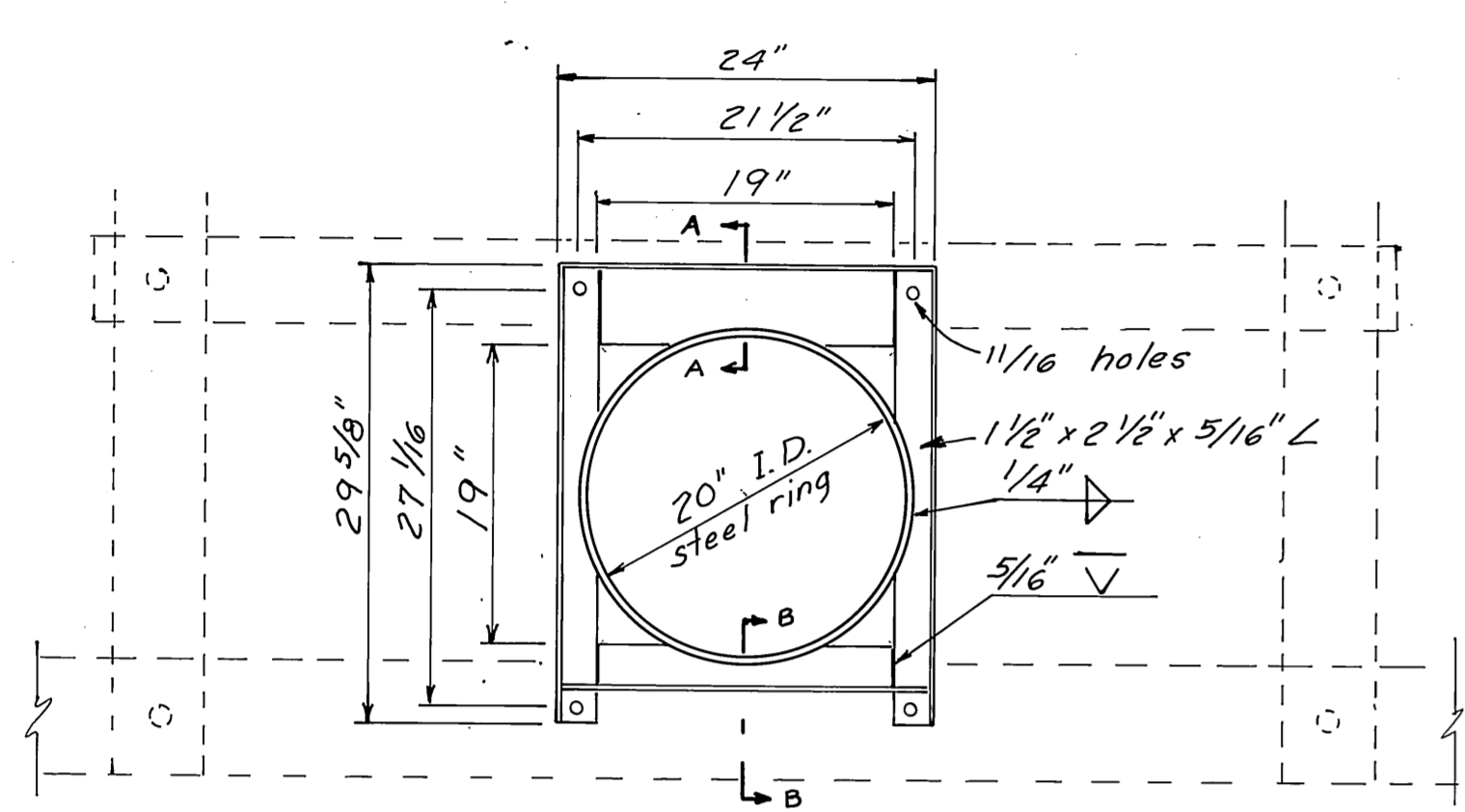
AS BUILT



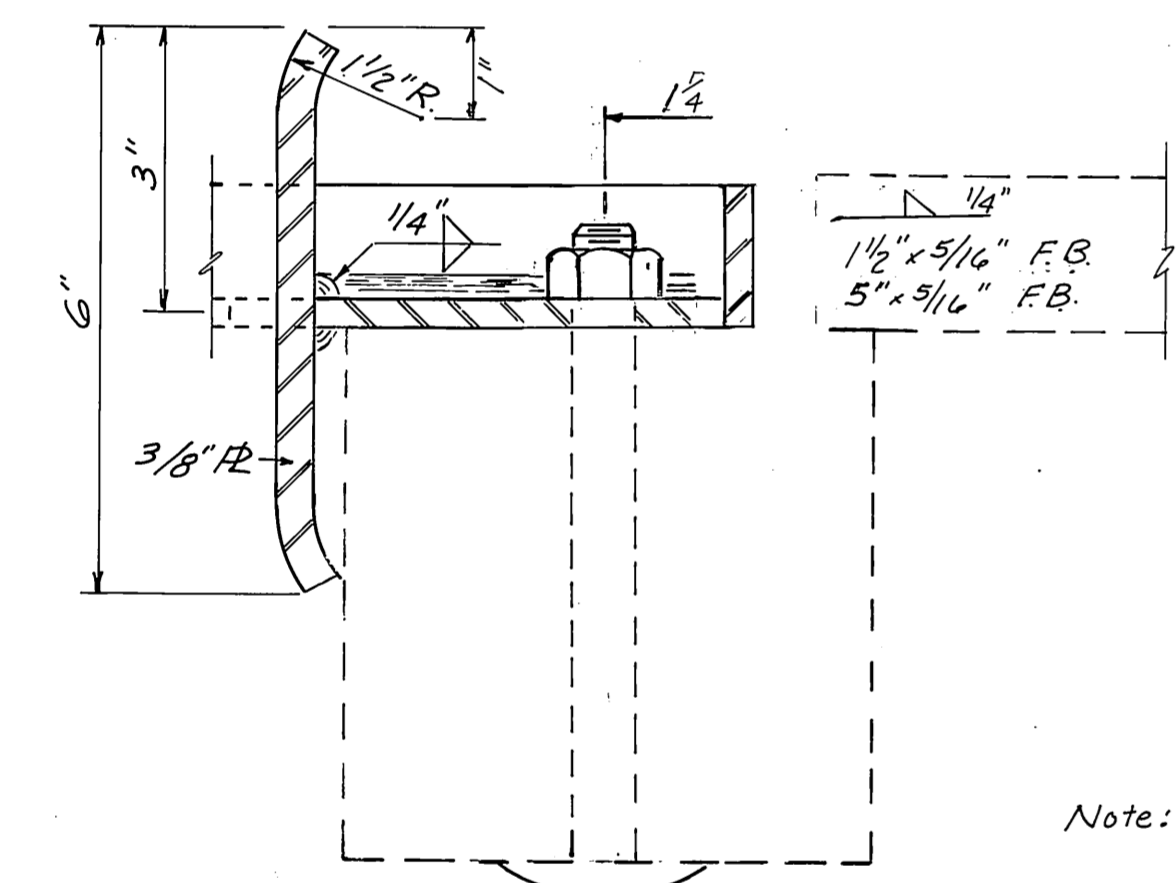
DO NOT SCALE THIS DRAWING - USE DIMENSIONS		
STATE OF ALASKA DEPARTMENT OF PUBLIC WORKS DIVISION OF WATER AND HARBORS		
AURORA	HARRIS	JUNEAU
FLOAT CONNECTION DETAILS		
SCALE <i>As noted</i>	SURVEYED _____	APPROVED _____
DESIGNED _____	DRAWN <i>HM</i>	<i>Don Stotter</i> DIRECTOR
CHECKED _____	DATE <i>Oct 75</i>	
PROJECT NUMBER <i>3-76180</i>	SHEET <i>6</i> OF <i>7</i>	



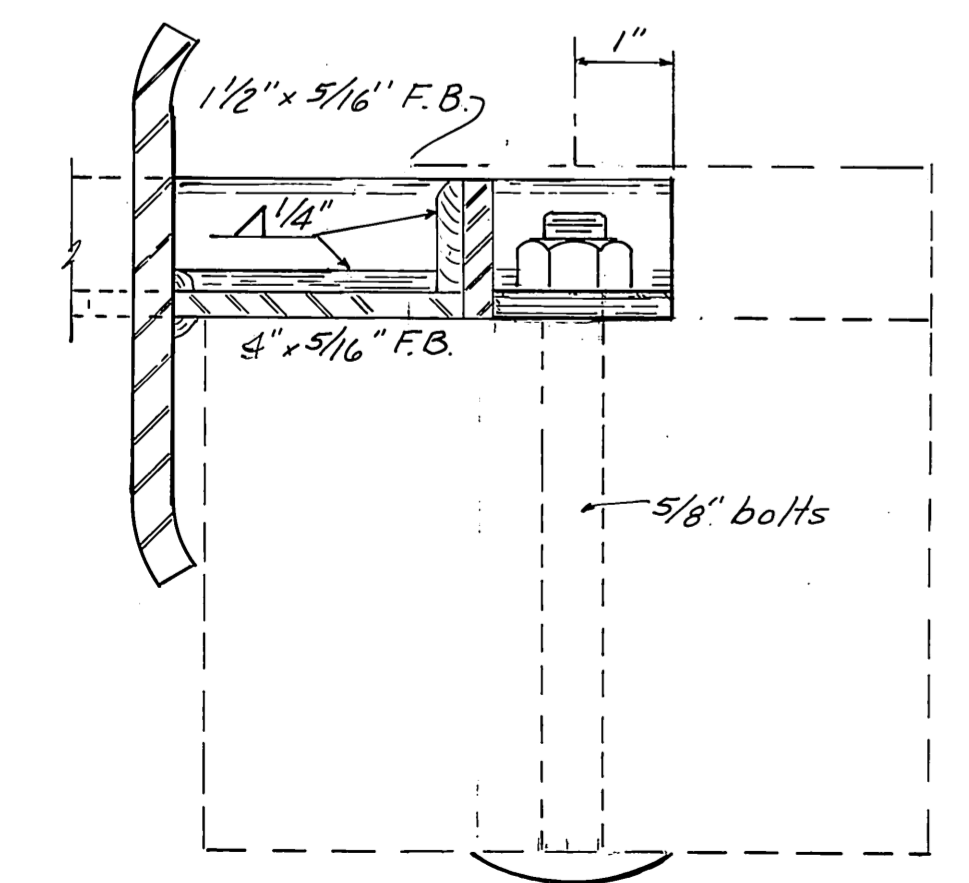
Milled Decking Detail
3/8" = 1" (3/8 size)



Plan 1" = 1'-0" NOTE: All welds on inside face of steel ring shall be ground smooth.

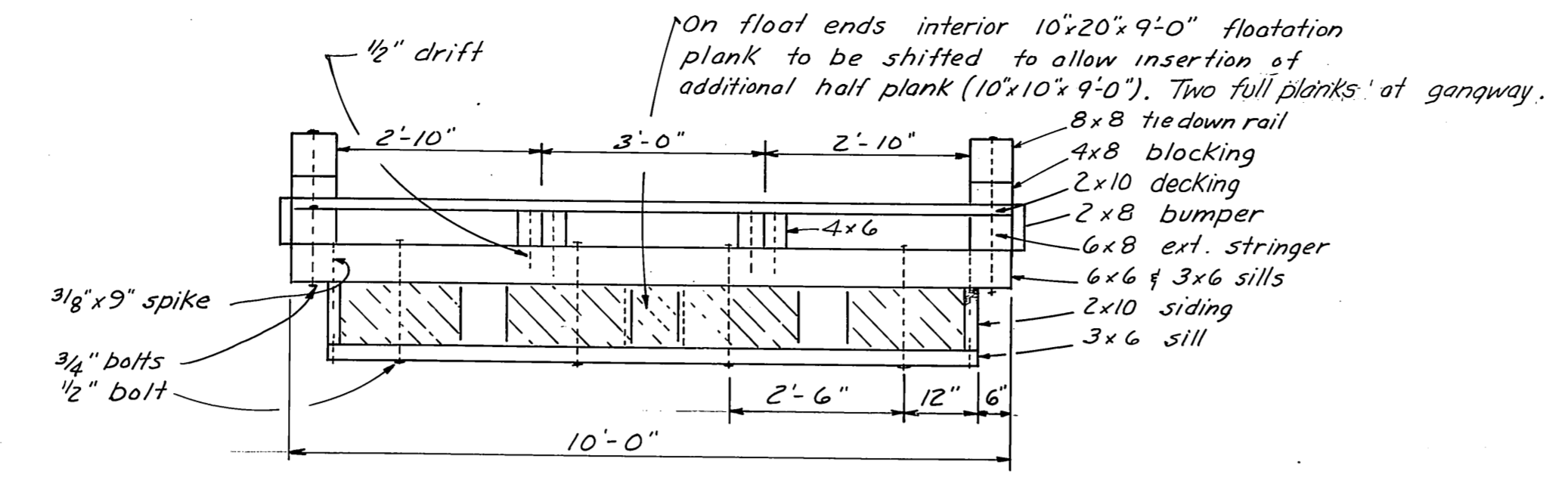


Section A-A half-size

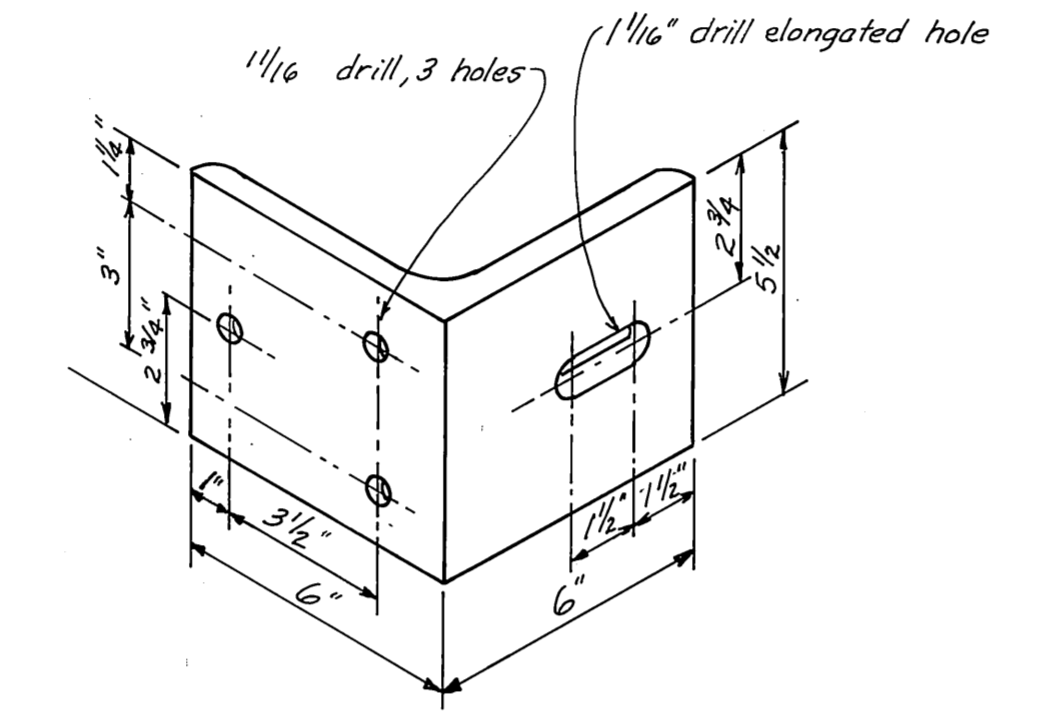


Section B-B half size

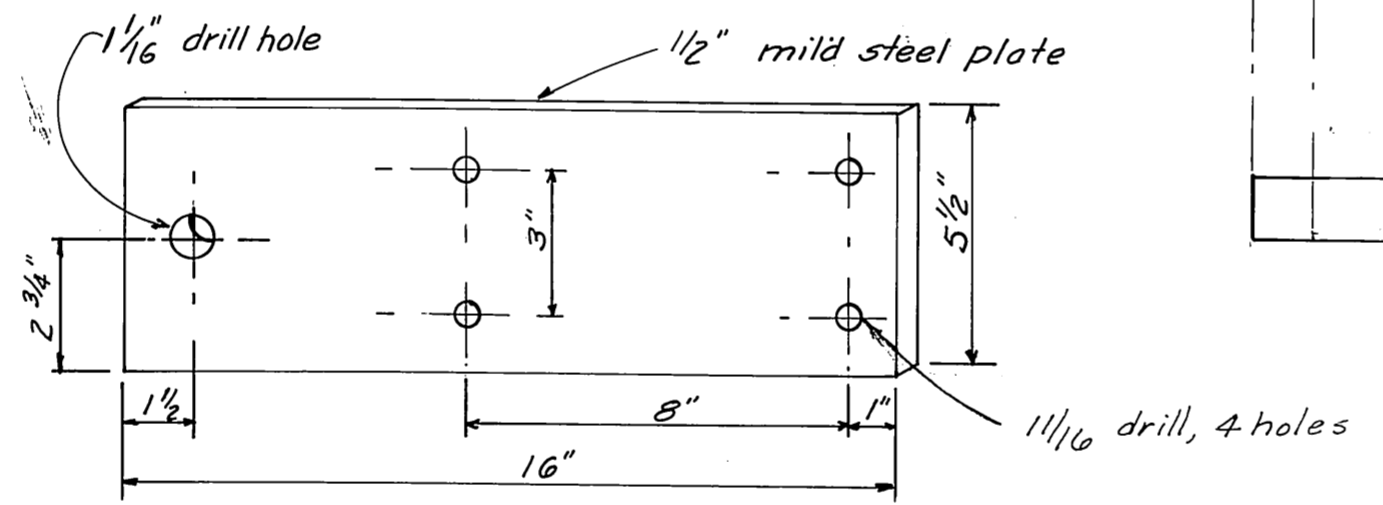
Steel Pile Collar Details



Section 1/2" = 1'-0"

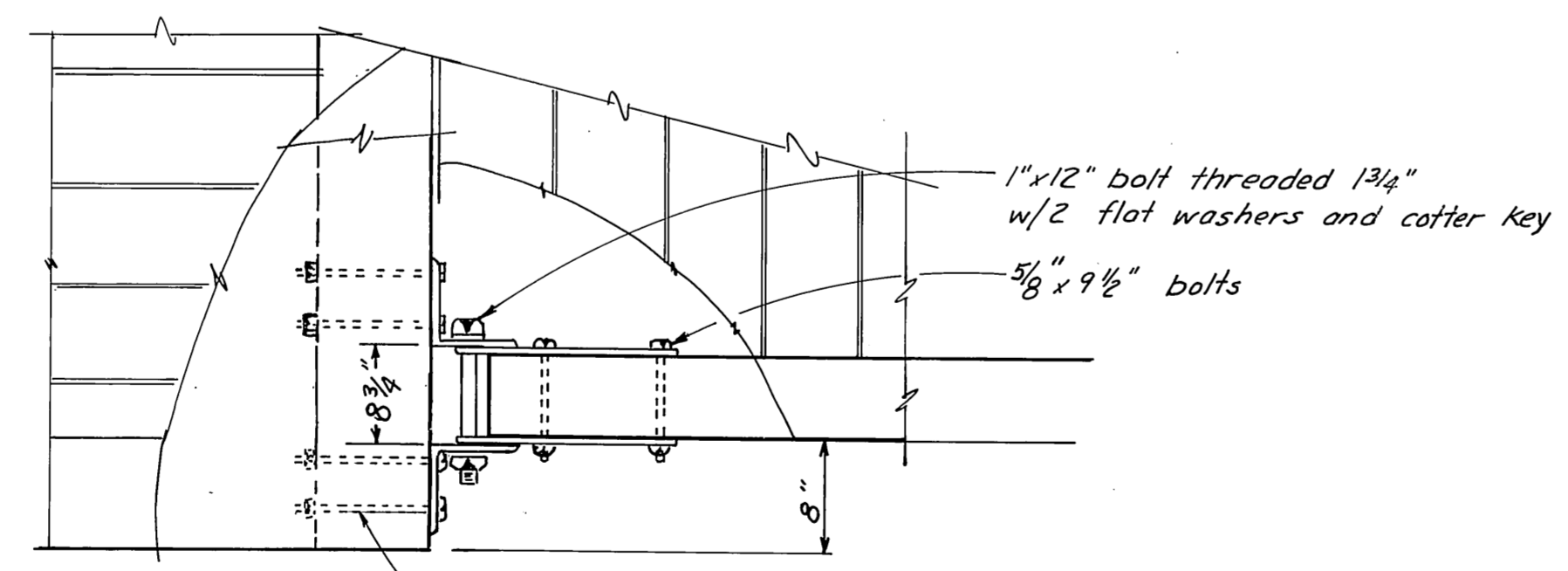


ANGLE CLIP 3" = 1'-0"



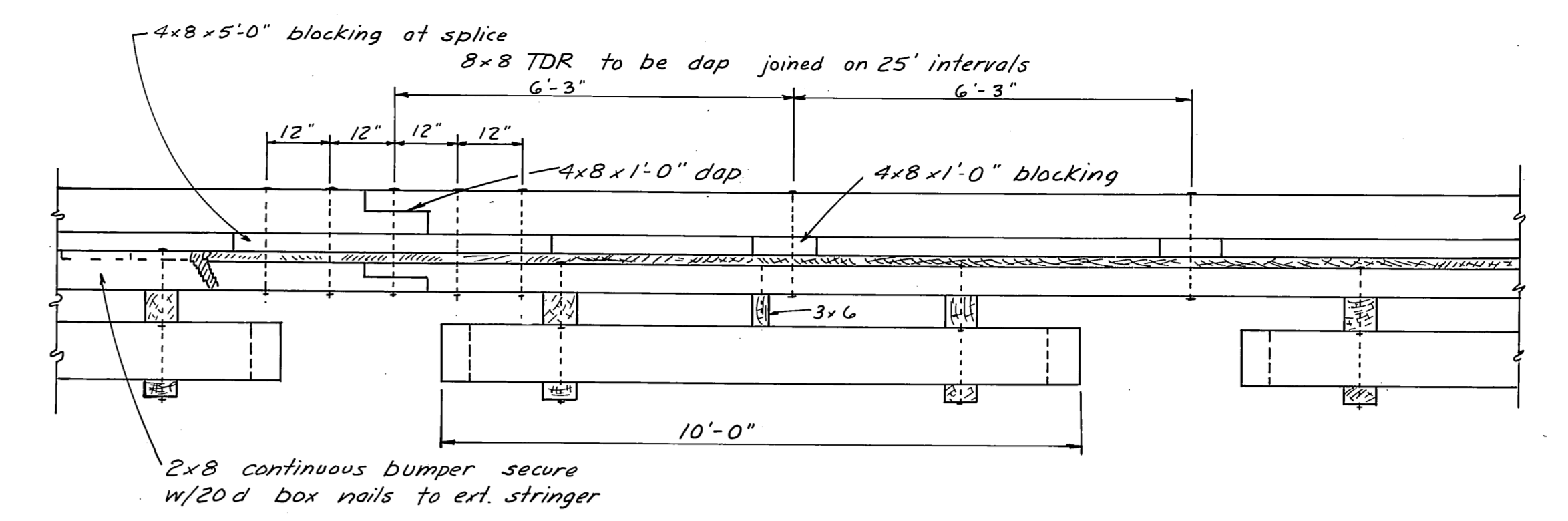
Standard plate

Note: All material to be mild steel, hot dipped galvanized after fabrication

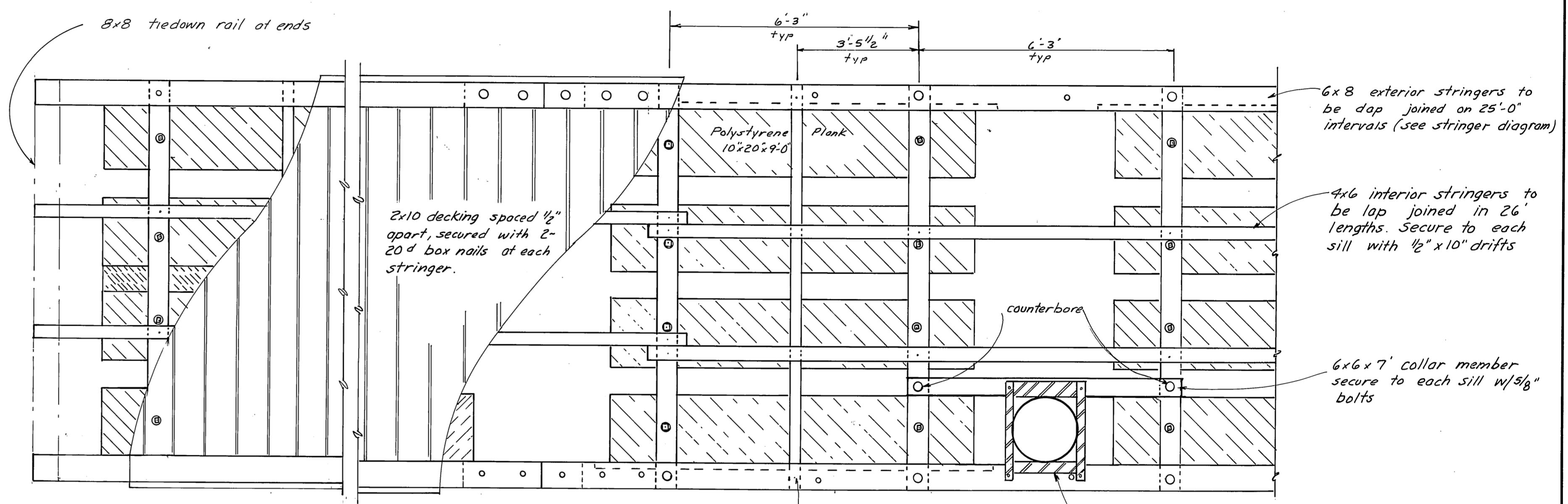


Right Angle Connection

Float Connection Details Scale: 1" = 1'-0"



Elevation 1/2" = 1'-0"



Plan - 10' Float 1/2" = 1'-0"

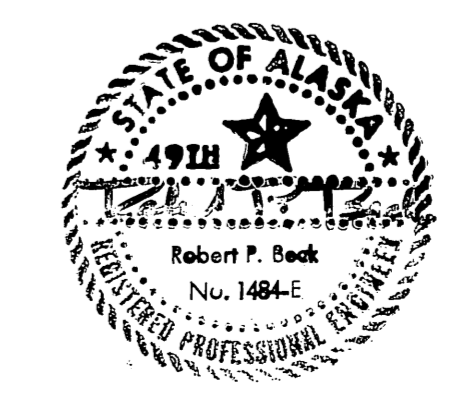
ITEM	DRESSING	TREATMENT
3x6 - 6x6 upper sill	S 1 E 1/8" off	12 lbs. ret.
2x10 siding	2 x 10 1/2"	" "
3x6 lower sill	rough	" "
4x6 interior stringers	S 2 E	8 lbs. ret.
6x6 collar member	S 2 E	" "
6x6 exterior stringer	S 4 S	" "
2x8 bumpers	" " "	WR. Penta (equal)
2x10 decking	milled	" "
4x8 blocking	S 4 S	" "
8x8 tie-down rail	" " "	" "

All material to be select structural grade douglas fir, FOHC
All piling will be class A creosoted to 12 lbs. retention
All 12 lb ret. creosoted treatment to be full cell
All 8 lb " " " " " empty cell

- Predrill bolt holes -**
Collar member - all holes
Sills - holes for floatation plank bolts
Stringers - holes for stringer to sill bolts
Tie down rail - all holes
- Field drill bolt holes**
Sills - holes for stringer to sill bolts
- pile collar member to sill bolts
Rail blocking - all holes
Exterior stringer - holes for tie-down rail 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 economy headed type. Bolt holes to be drilled 1/16" oversize except sill bolt holes for floatation 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 float ends except under gangway. All bolt heads facing decking shall be counter sunk 1/4" prior to treatment. Field drill all drift holes. A barrier of 6 mil black polyethylene shall be placed between the contact surfaces of all creosote timber and floatation material (except float siding member)

AS BUILT



DO NOT SCALE THIS DRAWING - USE DIMENSIONS

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

HARRIS AURORA JUNEAU

10' FLOAT DETAILS

SCALE: As noted
DESIGNED: DW/DS
CHECKED: [Signature]
PROJECT NUMBER: 3-76180

SURVEYED: [Signature]
DRAWN: MM
DATE: Jan 75

APPROVED: Don Stotter, DIRECTOR
SHEET 7 OF 7