

STATE OF ALASKA

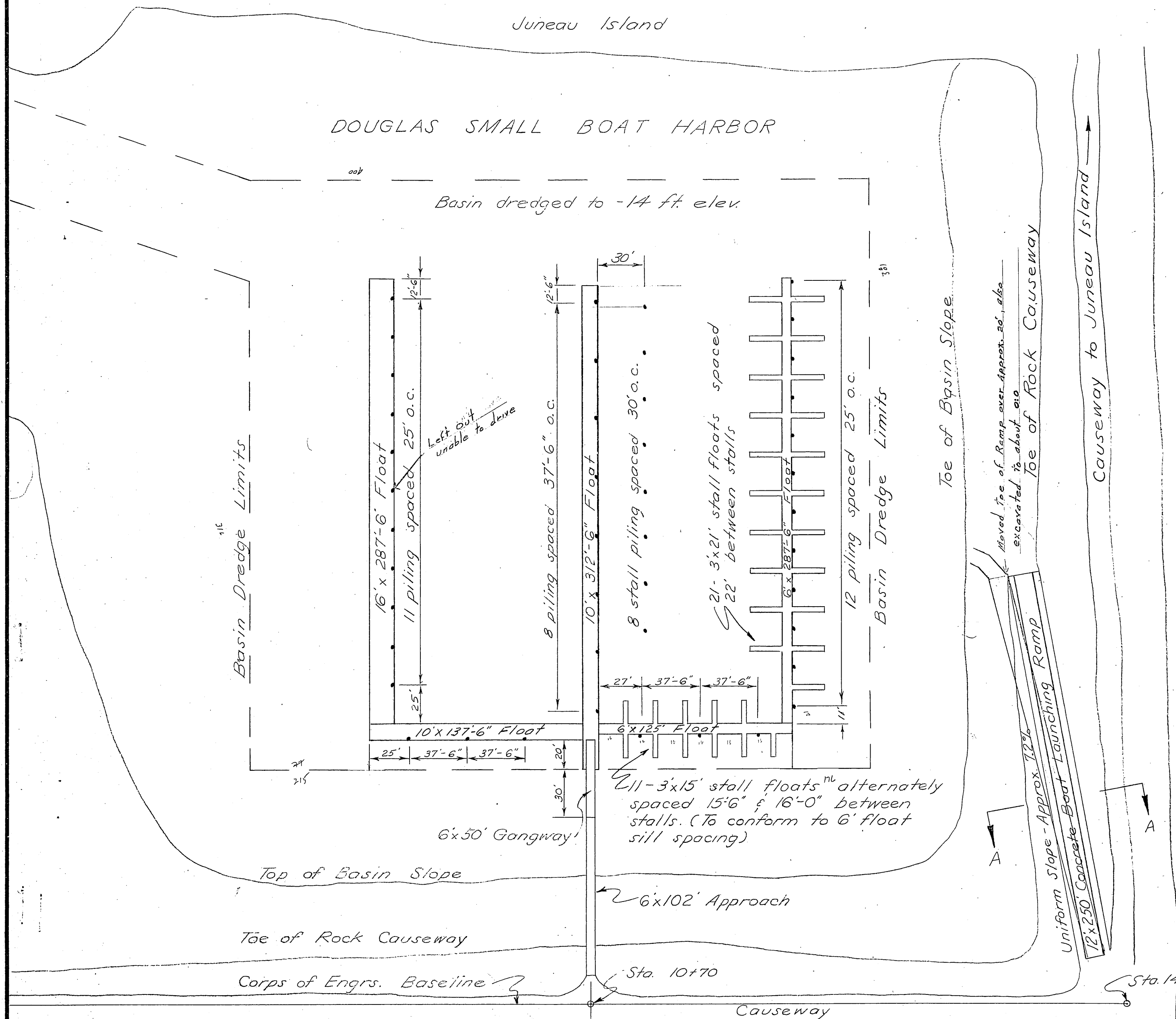
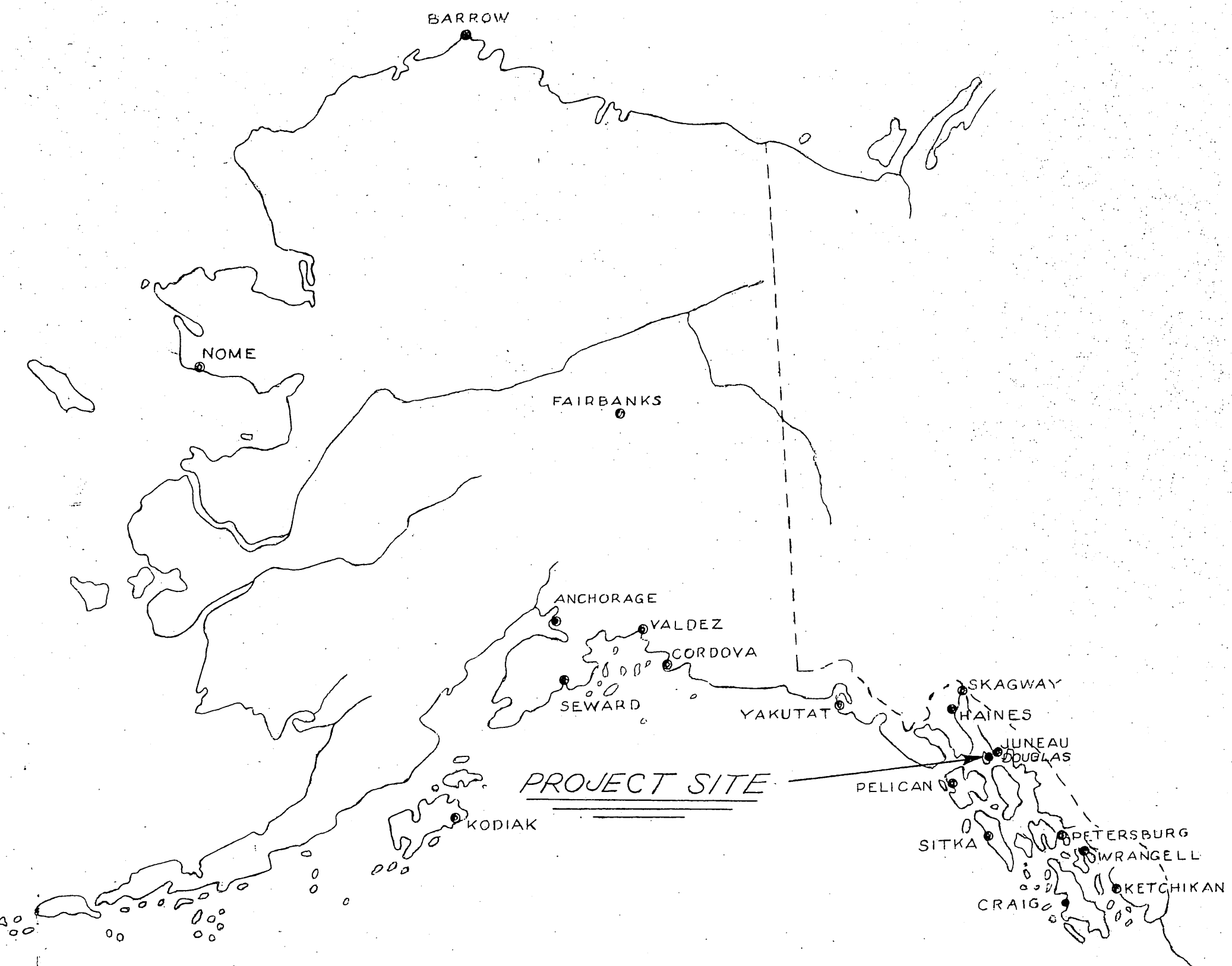
DEPARTMENT OF PUBLIC WORKS

DIVISION OF WATER & HARBORS

DOUGLAS BOAT HARBOR FACILITIES

PROJECT NO. W 63179

Scale 1" = 50'



NOTES

1. All piling to be driven butt down to 10' penetration or refusal as may be determined by the Engr.
2. Float & stall piling cut-off elev. shall be +28 ft.

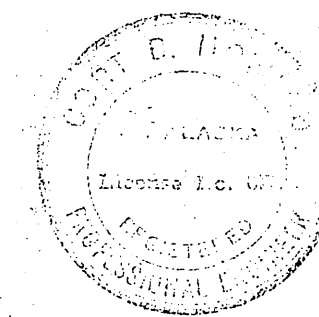
WORK SUMMARY

Major units of this project shall include the construction & installation of the following: a 20' x 250' boat launching ramp (1100 cu. yds. fill - 55.5 cu. yds. concrete), a 6' x 102' approach structure (612 s.f.), a 6' x 50' gangway, 13,393 s.f. of polystyrene floats, furnishing & driving 45 float and stall piling (2370 l.f.)

INDEX TO SHEETS

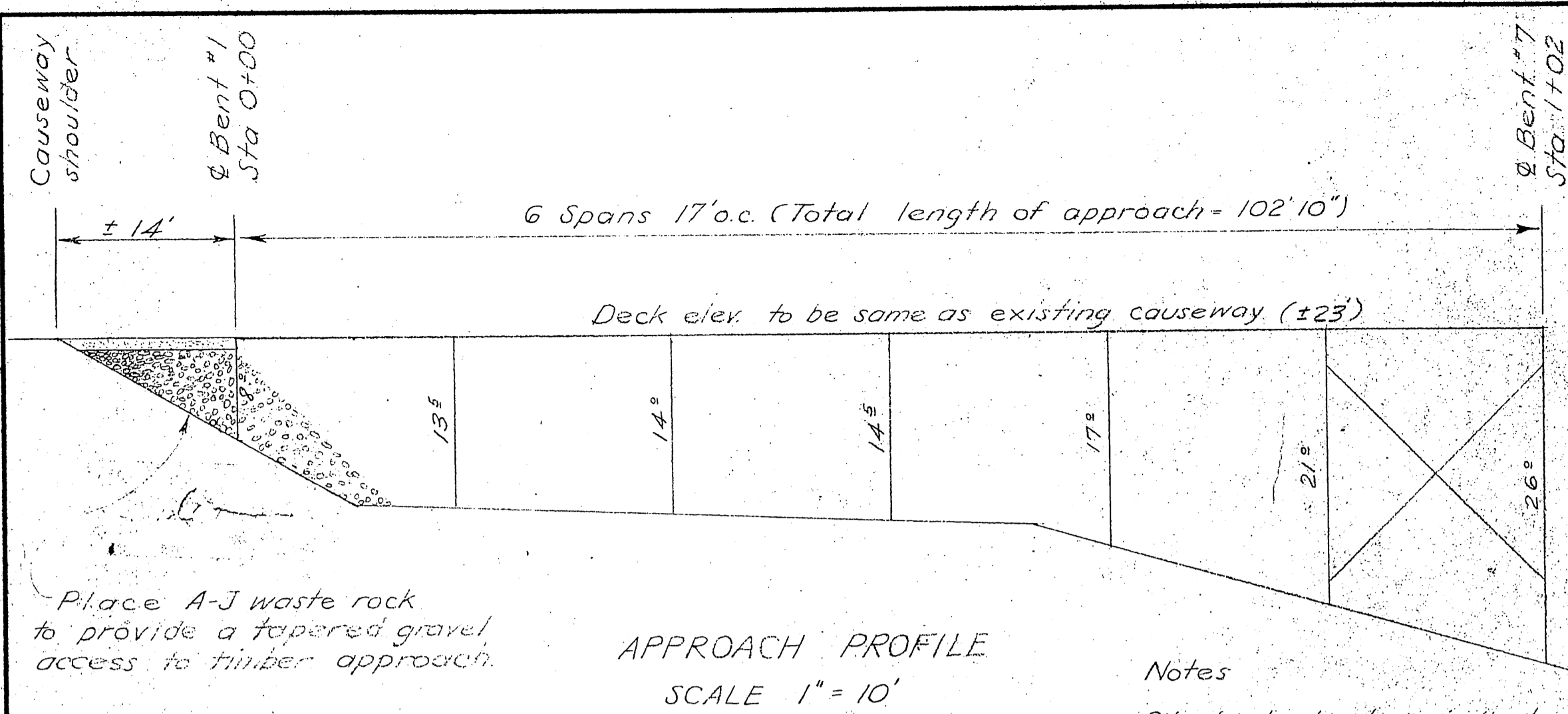
TITLE & LOCATION	SHEET ---	1
APPROACH CONST. & RAMP DETAILS	"	2
TYPICAL FLOATS	"	3
TYPICAL STALL FLOATS	"	4
TYPICAL GANGWAY	"	5

Scale is 1/2 that shown

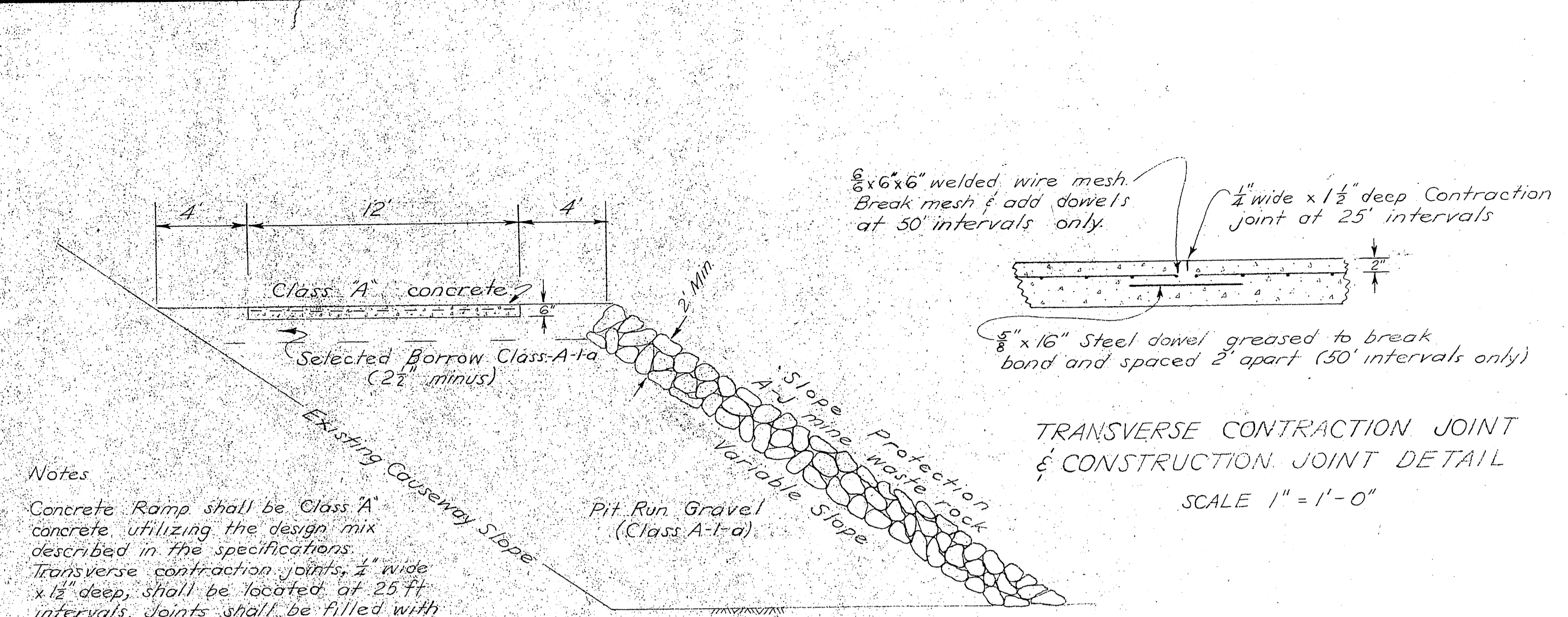


DATE 10/10/62

APPROVED *[Signature]*
COMMISSIONER



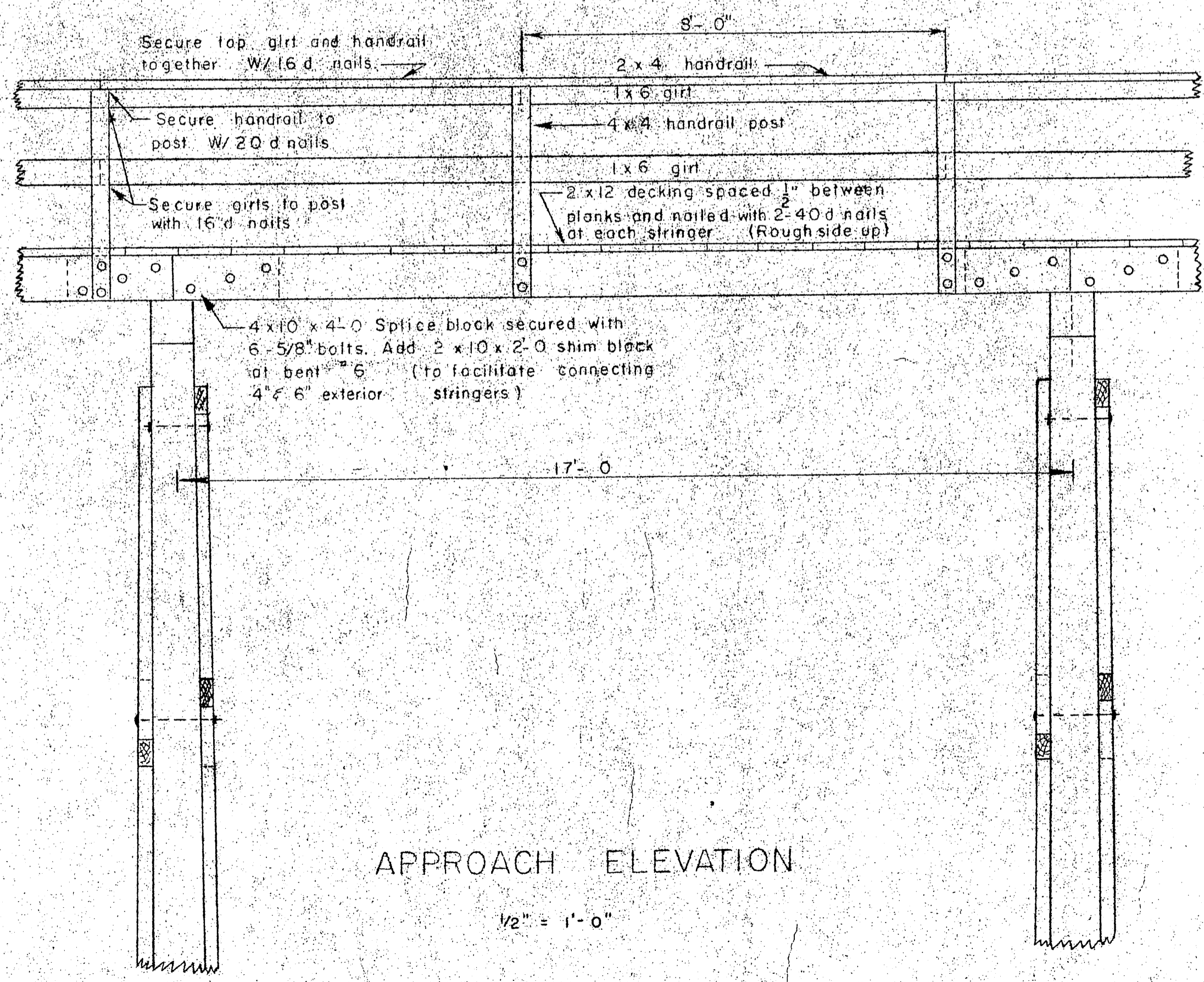
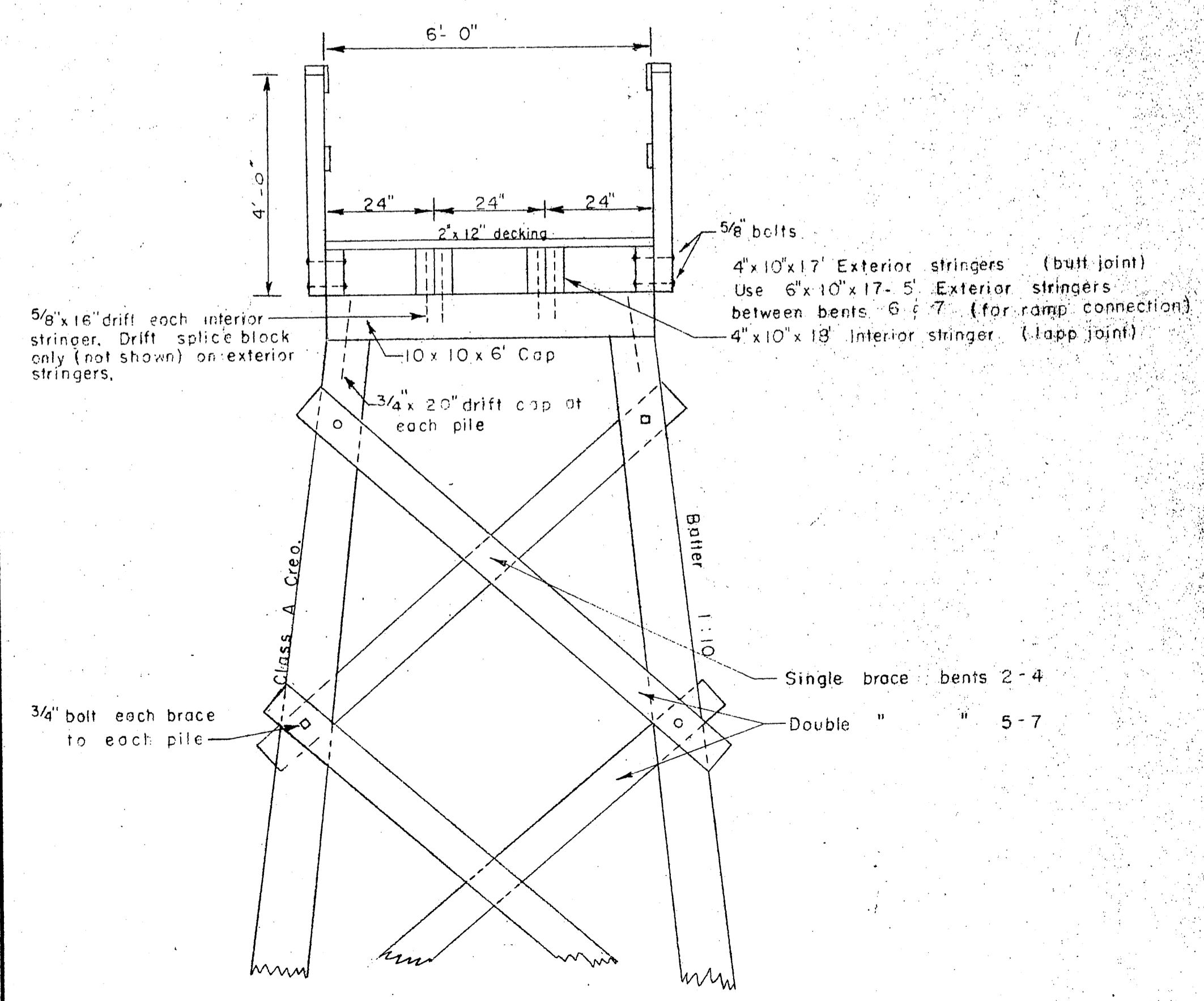
Notes
Pile bent elevations indicate distance from ground to top of deck.
Install 4 pieces of 3"x8"x24" bracing longitudinally between bents 6 & 7.



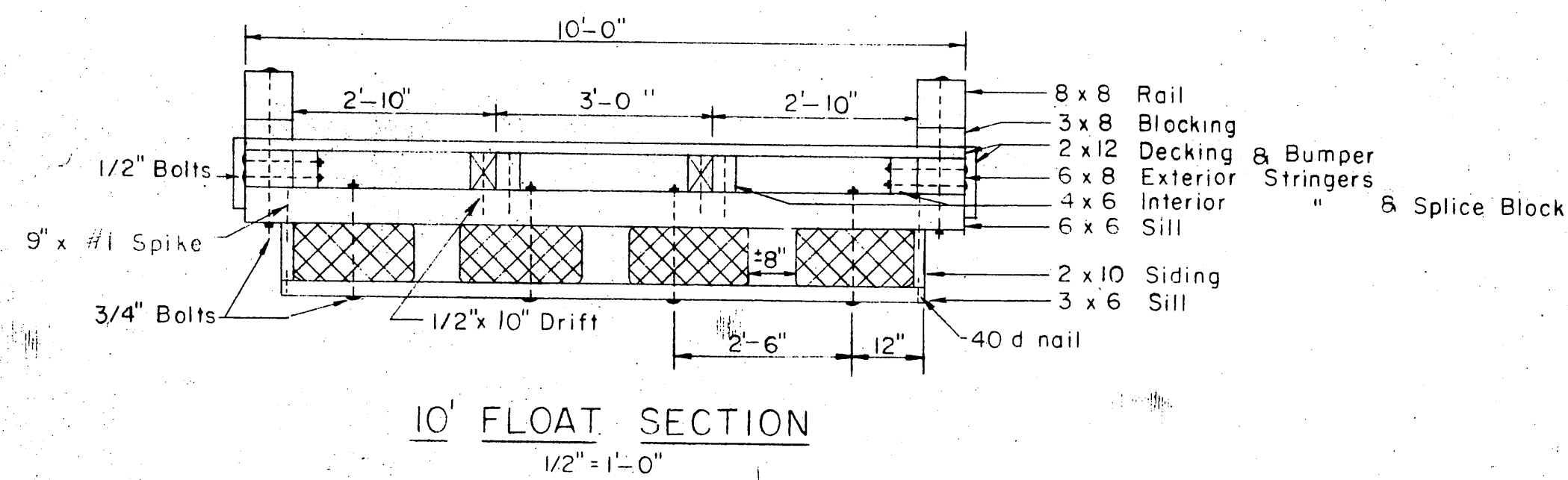
Notes
Concrete Ramp shall be Class 'A' concrete utilizing the design mix described in the specifications.
Transverse contraction joints, 1/2" wide x 1 1/2" deep, shall be located at 25 ft intervals. Joints shall be filled with an approved filler as described in the specifications.
Construction joints shall be located in such a manner as to fall at contraction joints, but shall not be at intervals of less than 50 ft.

MATERIALS				
ITEM	GRADE	DRESSING	TREATMENT	MATERIALS
PILING	CLASS A		12" RET.	DOUGLAS FIR OR
BRACING	CONST.	ROUGH	" "	WESTERN HEMLOCK
CAPS	" "	S4S	10" RET.	
STRINGERS	" "	S4S	" "	
SPLICE BLOCK	" "	" "	" "	
DECKING	" "	S1S	NONE	SITKA
HANDRAIL POST	" "	S4S	" "	SPRUCE
HANDRAILS	" "	" "	" "	
GIRTS	" "	" "	" "	

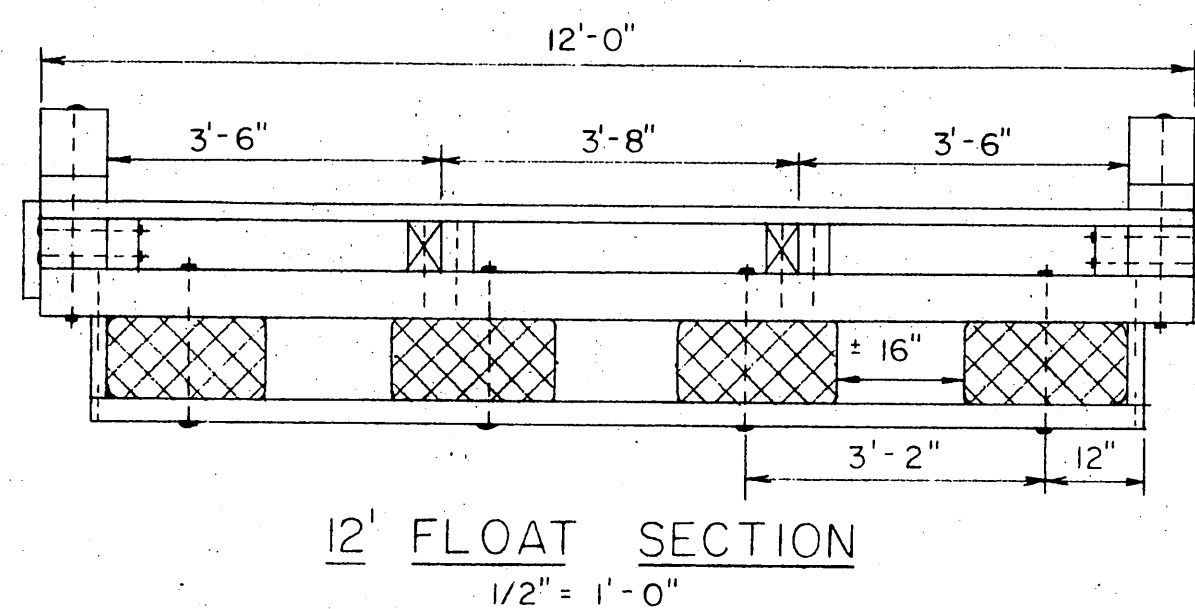
NOTES
All hardware to be galvanized with malleable iron washers between nut and wood surfaces.
All bolts to be Mushroom Head Type. Bolt holes to be drilled true size. Drift holes to be drilled 1/8" undersize and treated with hot creosote oil. All creosote treated lumber shall be cut to size prior to treatment. All drill holes to be treated with hot creosote oil.



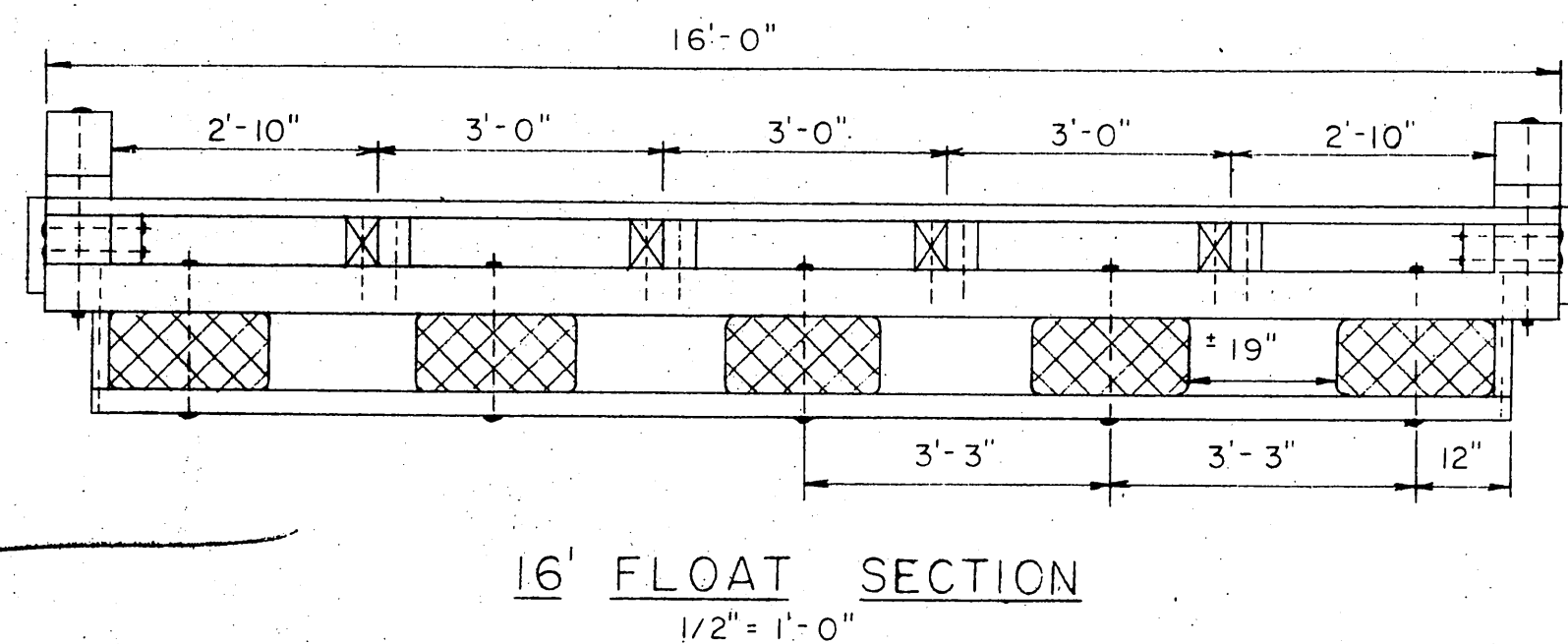
NO	DATE	REVISION	BY
STATE OF ALASKA DEPARTMENT OF PUBLIC WORKS DIVISION OF WATER AND HARBORS			
DOUGLAS BOAT HARBOR FACILITIES Approach Construction & Ramp Details			
SCALE: As Shown	DATE: Oct 15, 1962	APPROVED: [Signature]	COMMISSIONER
PROJ. NO. W 63179	SURVEYED BY DSM	DRAWN BY DSK	CHECKED BY [Signature]



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

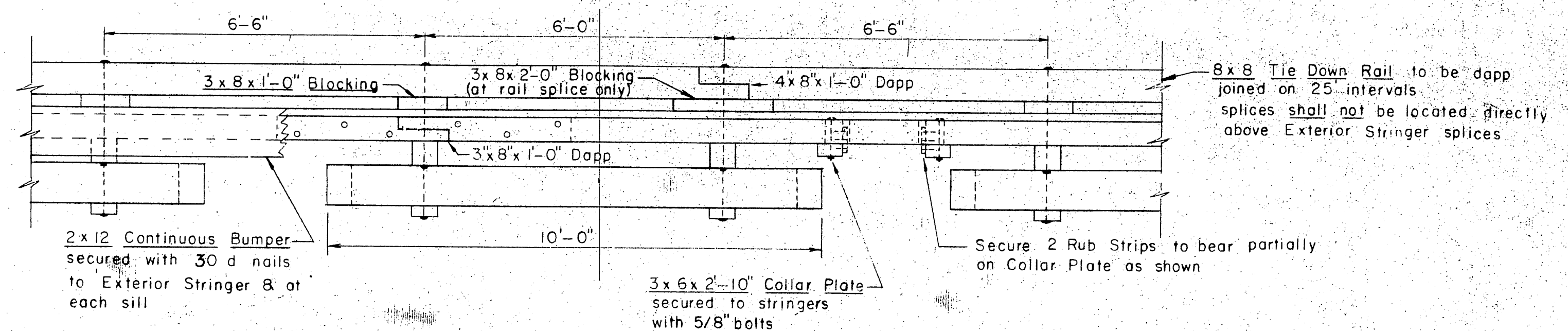


12' FLOAT SECTION
1/2" = 1'-0"

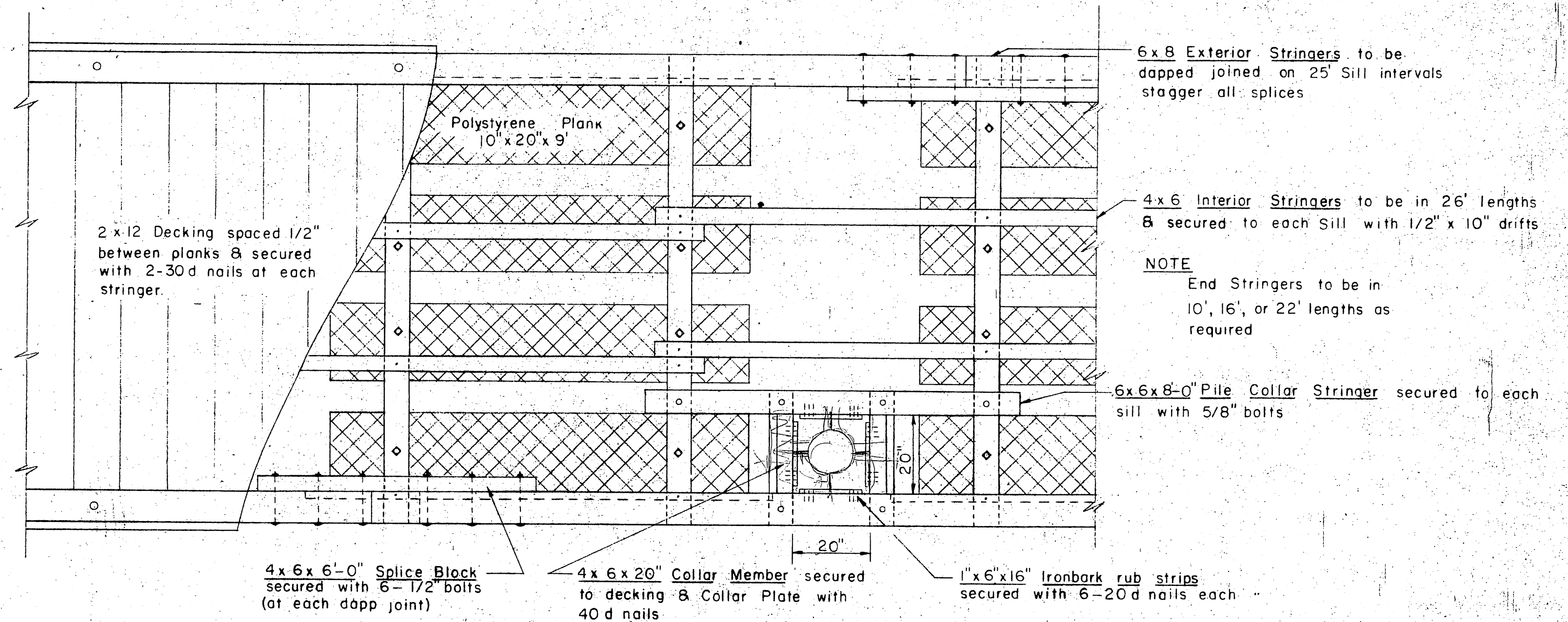


16' FLOAT SECTION
1/2" = 1'-0"

NOTE
12' & 16' Float construction shall conform to 10' Float construction except as noted.



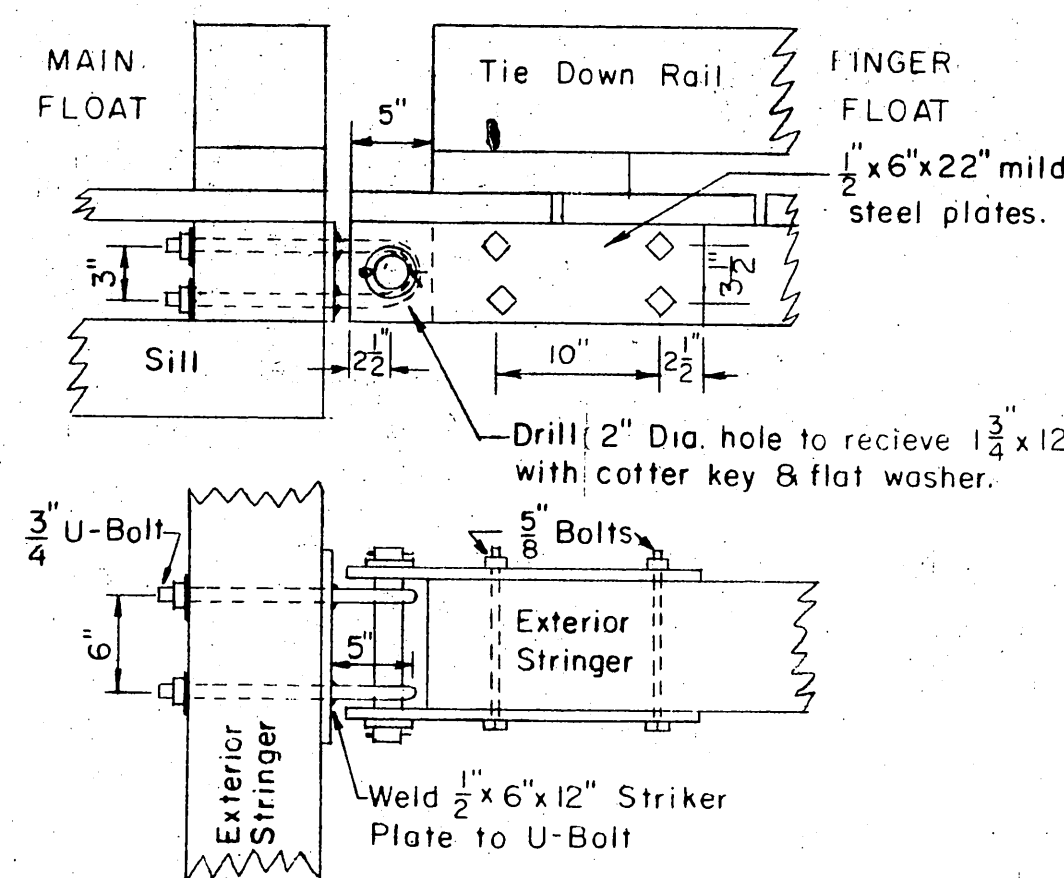
ELEVATION
1/2" = 1'-0"



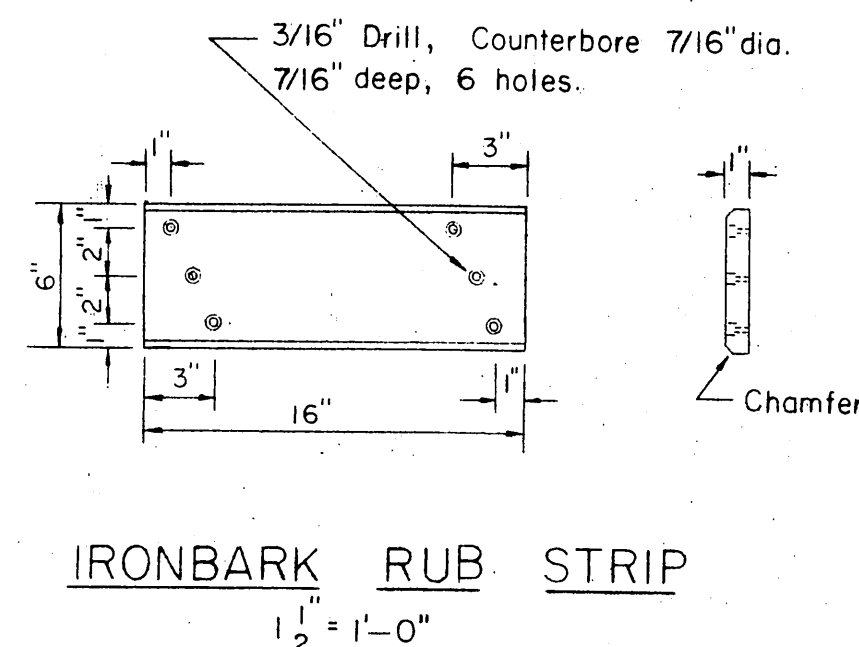
PLAN VIEW 10' FLOAT
1/2" = 1'-0"

NOTES

All hardware to be hot dip galvanized. A malleable iron washer shall be placed between all nut & wood surfaces. All bolts to be of the mushroom head type. Bolt holes to be drilled true size. Drift holes to be drilled 1/16" undersize. All drill holes shall be treated with hot creosote oil. All pressure treated creosote material shall be cut to size prior to treatment. Tie Down Rail & Blocking contact surfaces shall be treated with asphaltic roofing compound. An additional Polystyrene Plank shall be incorporated into each of the nearest 3 float sections wherever gangway rests on float. A 2x10 End Plate shall be securely nailed to float Siding members on all exposed float ends. Tie Down Rail shall be extended across all float ends. Floatation Plank bolt holes in all Sills & splice holes in all Exterior Stringers to be drilled prior to treatment. An additional half floatation plank (10'x10'x9") shall be added to the last floatation section on all float ends.



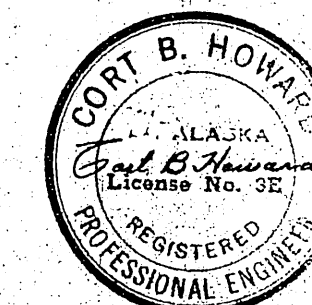
CONNECTION DETAIL
1" = 1'-0"



IRONBARK RUB STRIP
1 1/2" = 1'-0"

	MATERIALS			
	ITEM	GRADE	DRESSING	CREOSOTE TREAT.
DOUGLAS FIR OR WESTERN HEMLOCK	3x6 Sill	Construction	Rough	12 Lbs. Ret.
	2x10 Siding	"	"	" " "
	6x6 Sill	"	"	" " "
	4x6 Interior Stringers	"	S2 E	" " "
	6x8 Exterior "	"	S4 S	" " "
SITKA SPRUCE	4x6 Splice Block	"	S2 E	" " "
	2x10 End Plate	"	Rough	" " "
	2x12 Bumper	Construction	S1 S	None
	2x12 Decking	"	"	"
	3x8 Blocking	"	S4 S	"
	* 8x8 Rail	"	"	"

All piling will be Class A, creosoted to 12" retention
* May be resawn to standard dressed dimensions



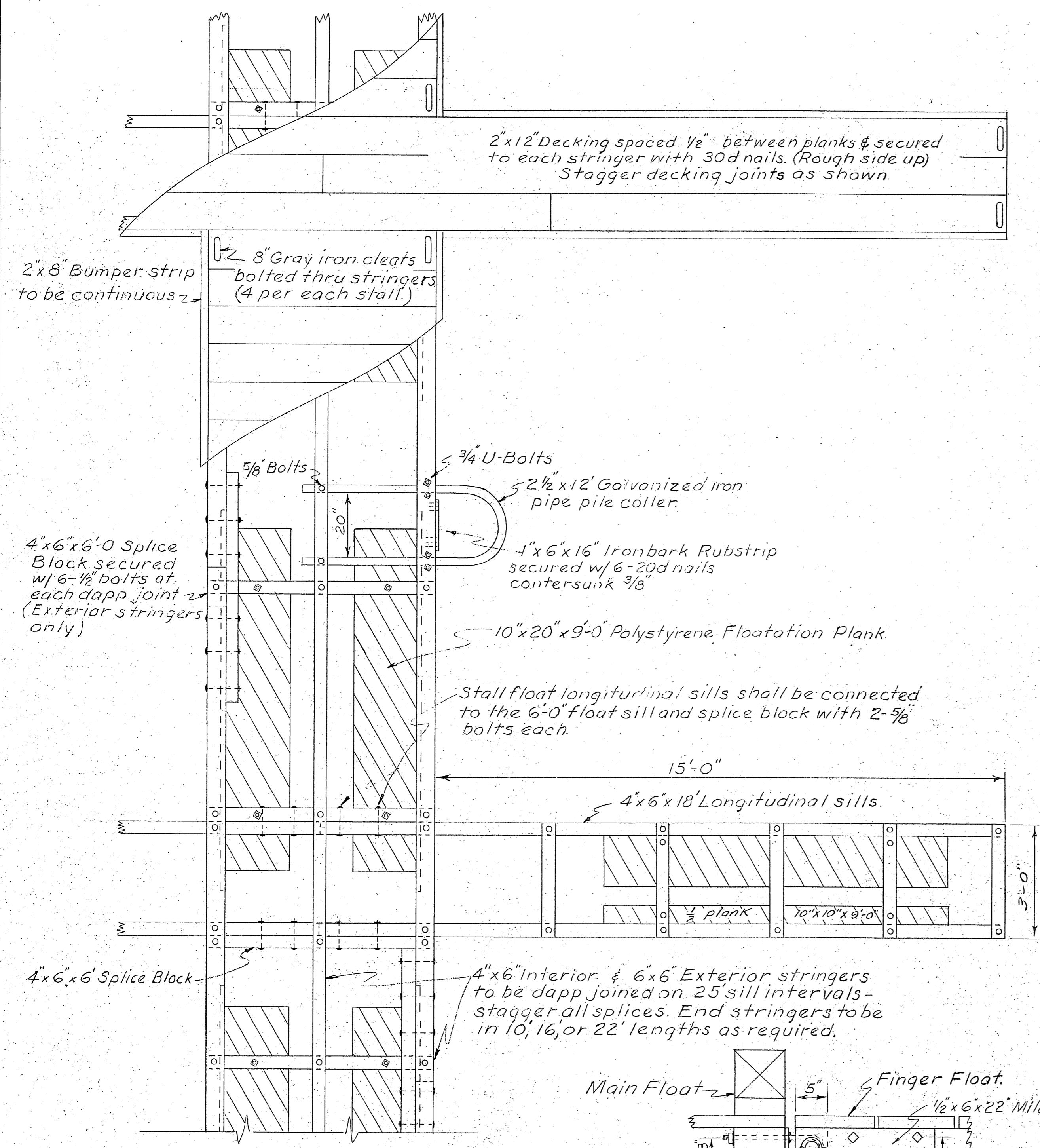
STATE OF ALASKA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF WATER AND HARBORS

TYPICAL FLOATS

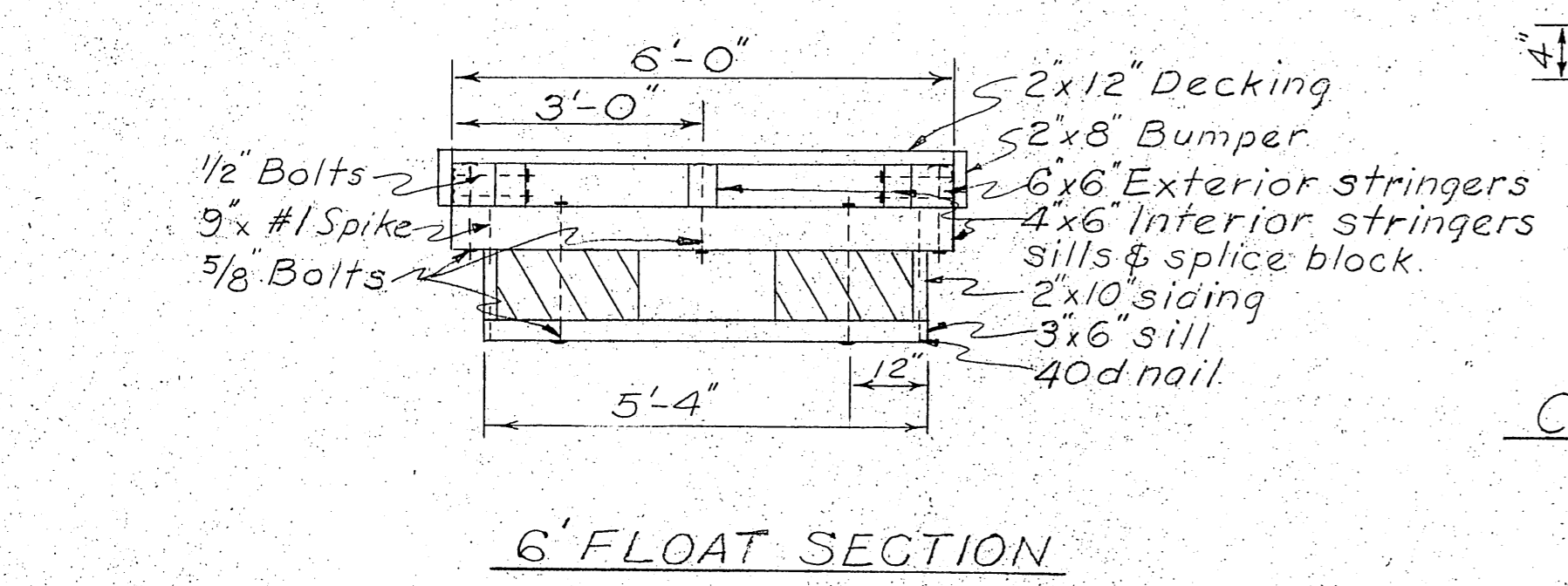
SCALE As Shown
DATE June 1962
PROJ. NO. W 62179

APPROVED [Signature]
COMMISSIONER

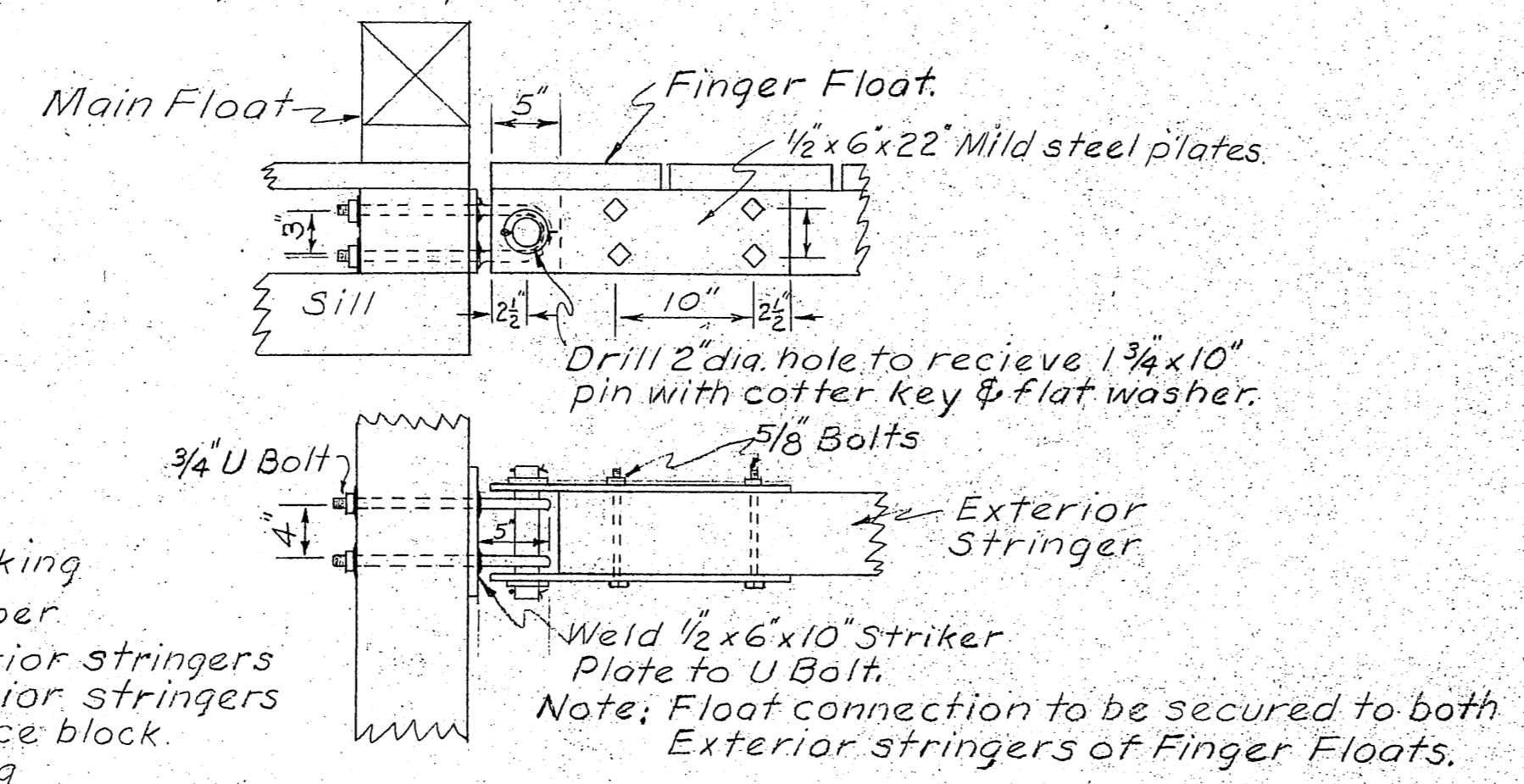
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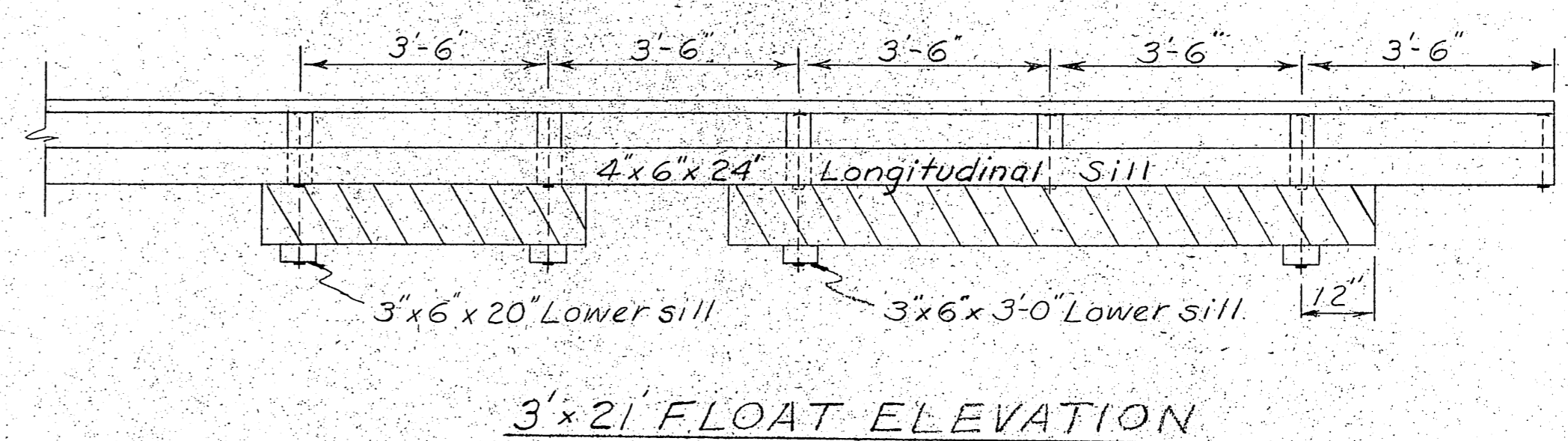
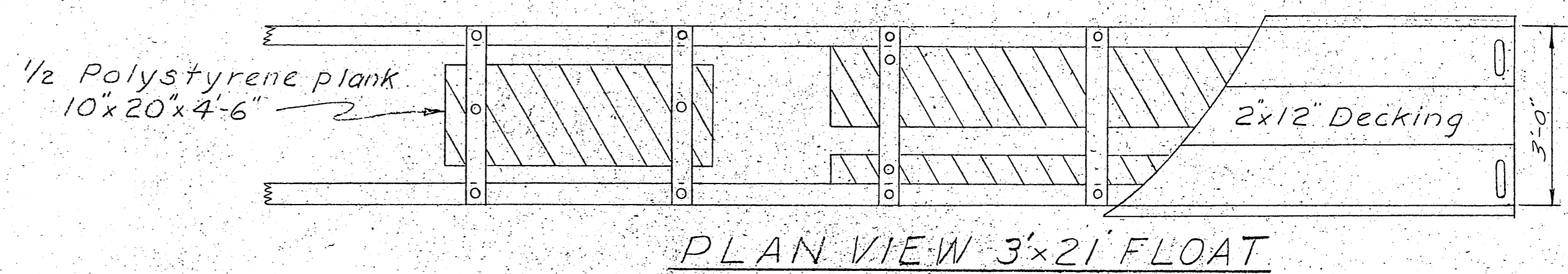
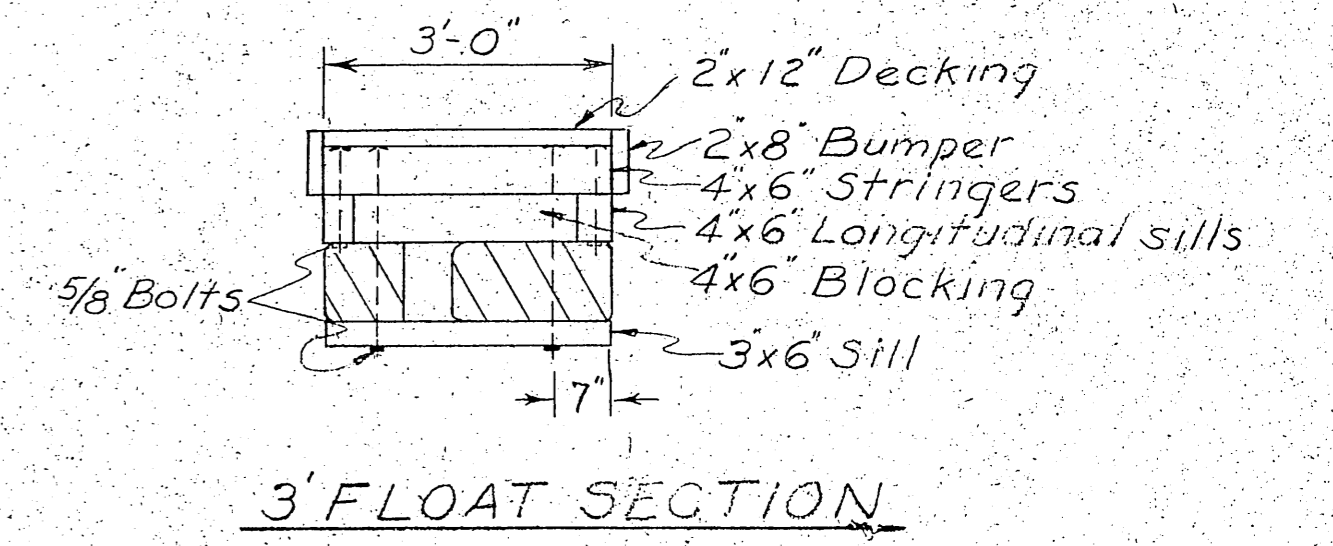
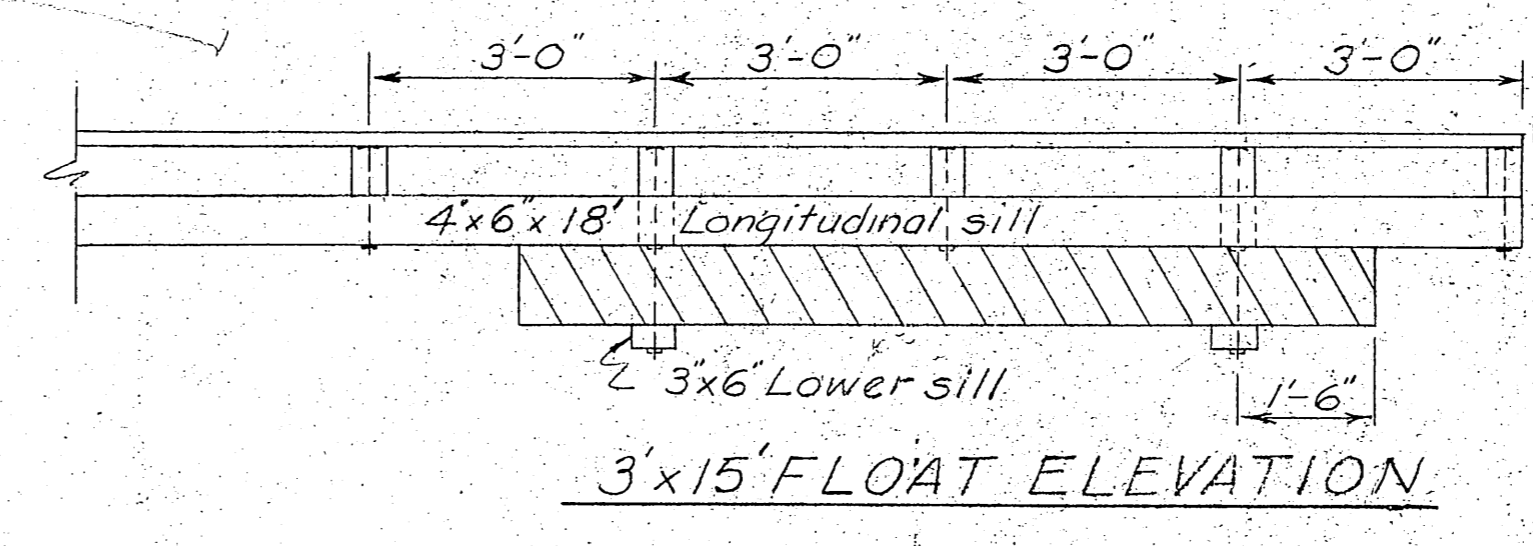
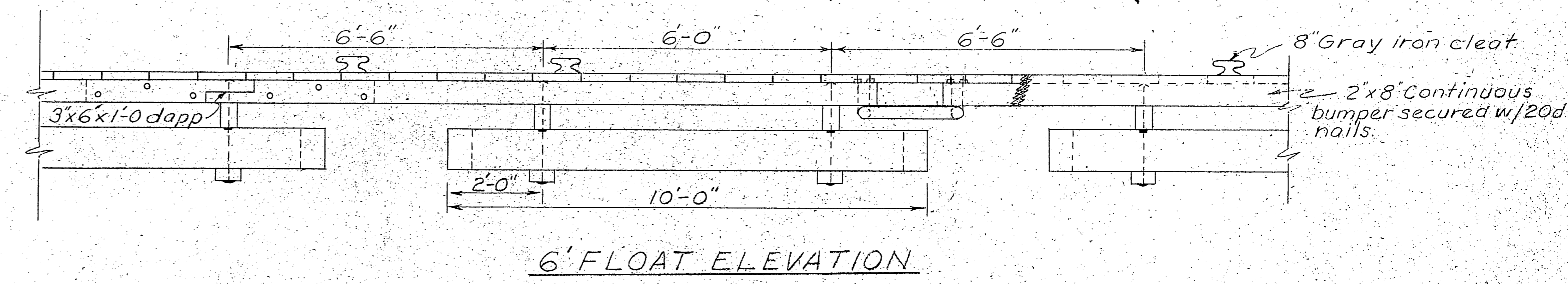
PLAN VIEW
15' STALL FLOAT ASSEMBLED



6' FLOAT SECTION



CONNECTION DETAIL
Scale 1"=1'-0"

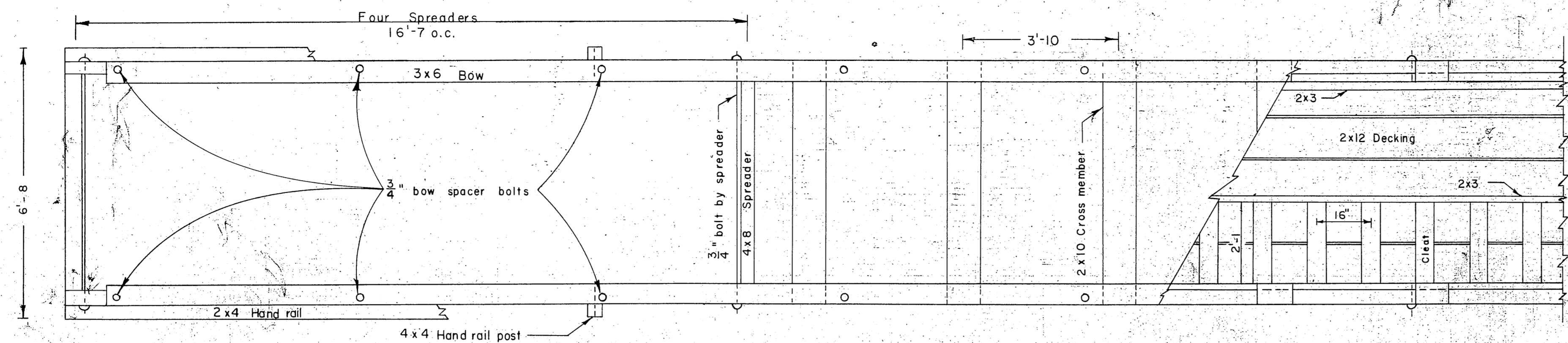


NOTES

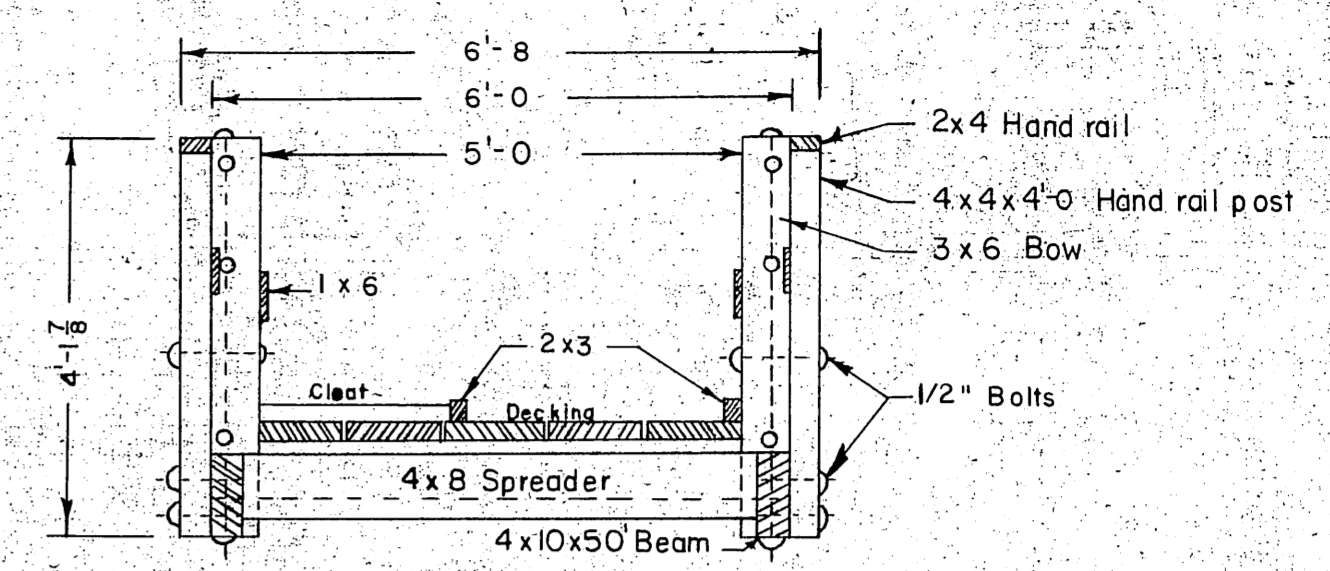
All hardware to be hot dip galvanized. A malleable washer shall be placed between all nut & wood surfaces. All bolts to be of the mushroom head type. Bolt holes to be drilled true size. Drift holes to be drilled 1/16" undersize. All drill holes shall be treated with hot creosote oil. All pressure treated creosote material shall be cut to size prior to treatment. All bolts to be 5/8 unless otherwise specified. 6' float shall be connected to main float with the typical connection detail as shown.

MATERIALS				
ITEM	GRADE	DRESSING	TREATMENT	TYPE
Piling	Class "A"		12" Ret.	Douglas Fir or
3x6 & 4x6 Sills	Constr.	Rough	" "	" "
2x10 Siding	"	"	" "	Western Hemlock
6x6 Exterior Stringers	"	S-4-S	" "	" "
4x6 Interior Stringers	"	S-2-E	" "	" "
4x6 Splice Blocks	"	"	" "	" "
4x6 Longitudinal Stall Float Sills	"	"	" "	" "
4x6 Blocking	"	"	" "	" "
2x12 Decking	"	S-1-S-2-E	NONE	Sitka Spruce
2x8 Bumpers	"	S-4-S	" "	" "

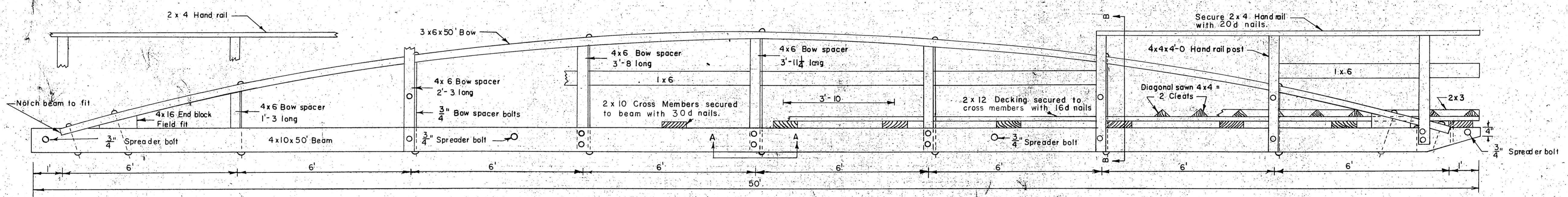
NO.	DATE	REVISION	BY
STATE OF ALASKA DEPARTMENT OF PUBLIC WORKS DIVISION OF WATER AND HARBORS			
TYPICAL STALL FLOATS			
SCALE 3/4"=1'-0"		APPROVED: <i>[Signature]</i> COMMISSIONER	
DATE Aug 1962		SURVEYED BY: <i>[Signature]</i> CHECKED BY: <i>[Signature]</i>	
PROJ. NO. W-63122			



PLAN
1/2" = 1'



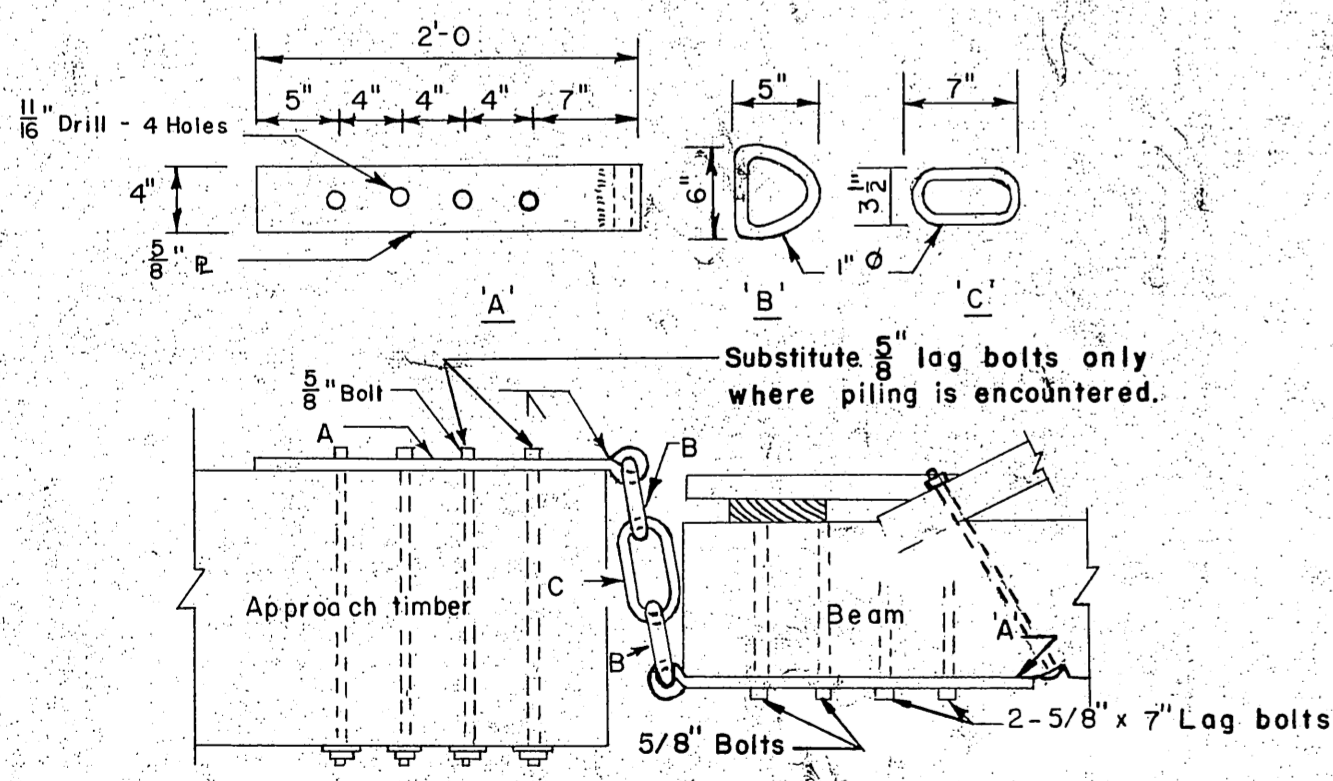
SECTION B-B
1/2" = 1'



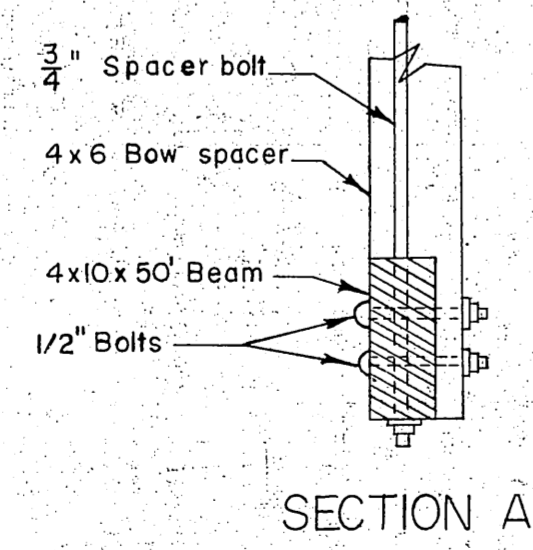
SIDE ELEVATION
1/2" = 1'

NOTE
Section A-A applies only to the 3 center Bow Spacers. Remaining 4 Bow Spacers are flush with top of beam. Bow Spacer heights are centerline measurement.

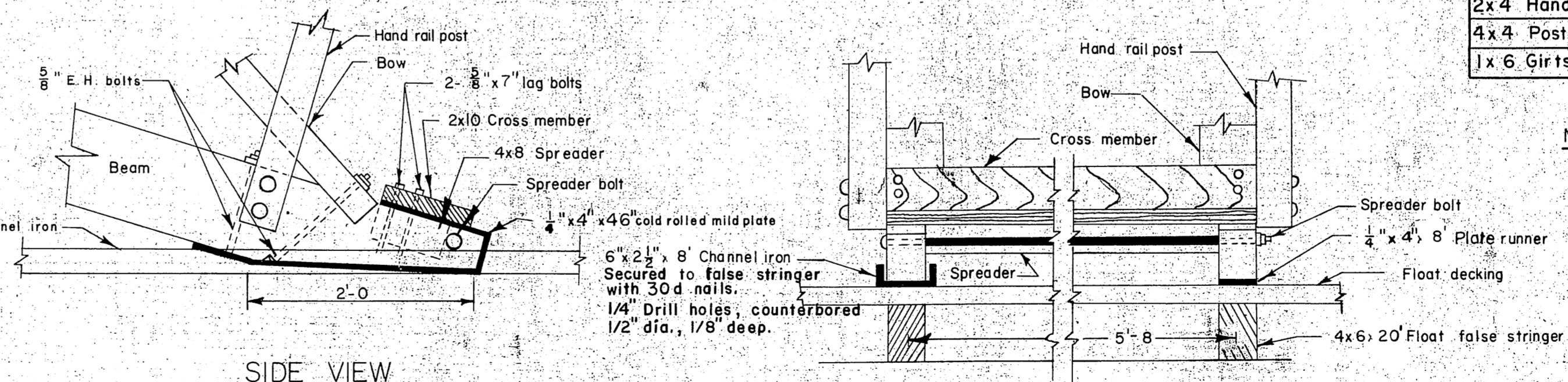
MATERIALS				
ITEM	GRADE	DRESSING	TREATMENT	MATERIALS
4x10 Beams	Select Struct.	Rough	Creo. 10 [#] ret.	Douglas Fir or Western Hemlock
3x6 Bow	"	S4S	Wolman Salt 5 [#] cf.	"
4x6 "Spacer	Construction	"	"	"
2x10 Cross	"	Rough	"	"
4x8 Spreader	"	Rough	"	"
2x12 Decking	"	S1S2E	"	"
4x4 Cleats	"	Rough	"	"
2x3 Runners	"	"	"	"
2x4 Handrail	"	S4S	"	"
4x4 Posts	"	"	"	"
1x6 Girts	"	"	"	"



HANGER DETAIL
1" = 1'



SECTION A-A
BOW SPACER-BEAM CONNECTION
1" = 1'

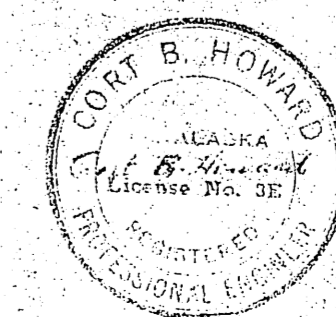


SIDE VIEW

END VIEW

GANGWAY - FLOAT CONNECTION
1" = 1'

NOTES
All material shall be cut to size prior to treatment.
All hardware to be hot dipped galvanized.
All bolts to be of the mushroom headed type.
A malleable iron washer to be placed between nut & wood surfaces.
Lag bolts to be gimlet pointed.
All cuts & notches shall be treated with asphaltic roofing compound.



NO DATE	REVISION	BY
ALASKA DEPARTMENT OF PUBLIC WORKS		
DETAIL FLOAT GANGWAY		
SCALE As Shown	DATE July 21, 1960	APPROVED R.A. Downing COMMISSIONER
FILE NO	DRAWN BY MGR	CHECKED BY RPH