

STATE OF ALASKA

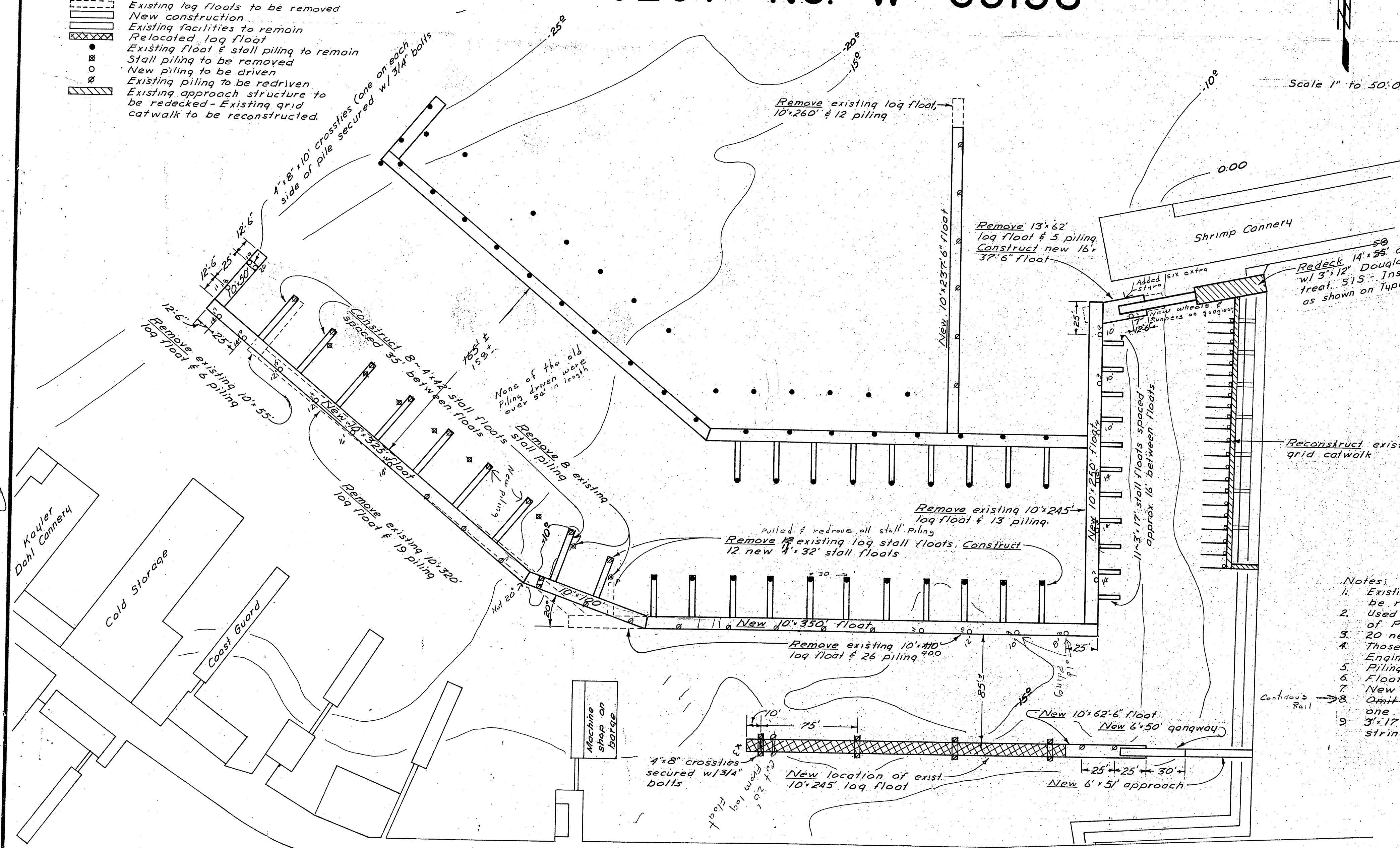
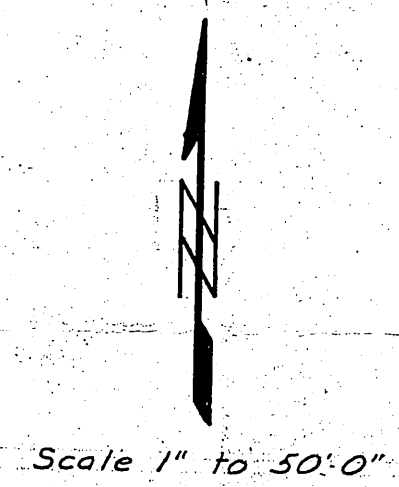
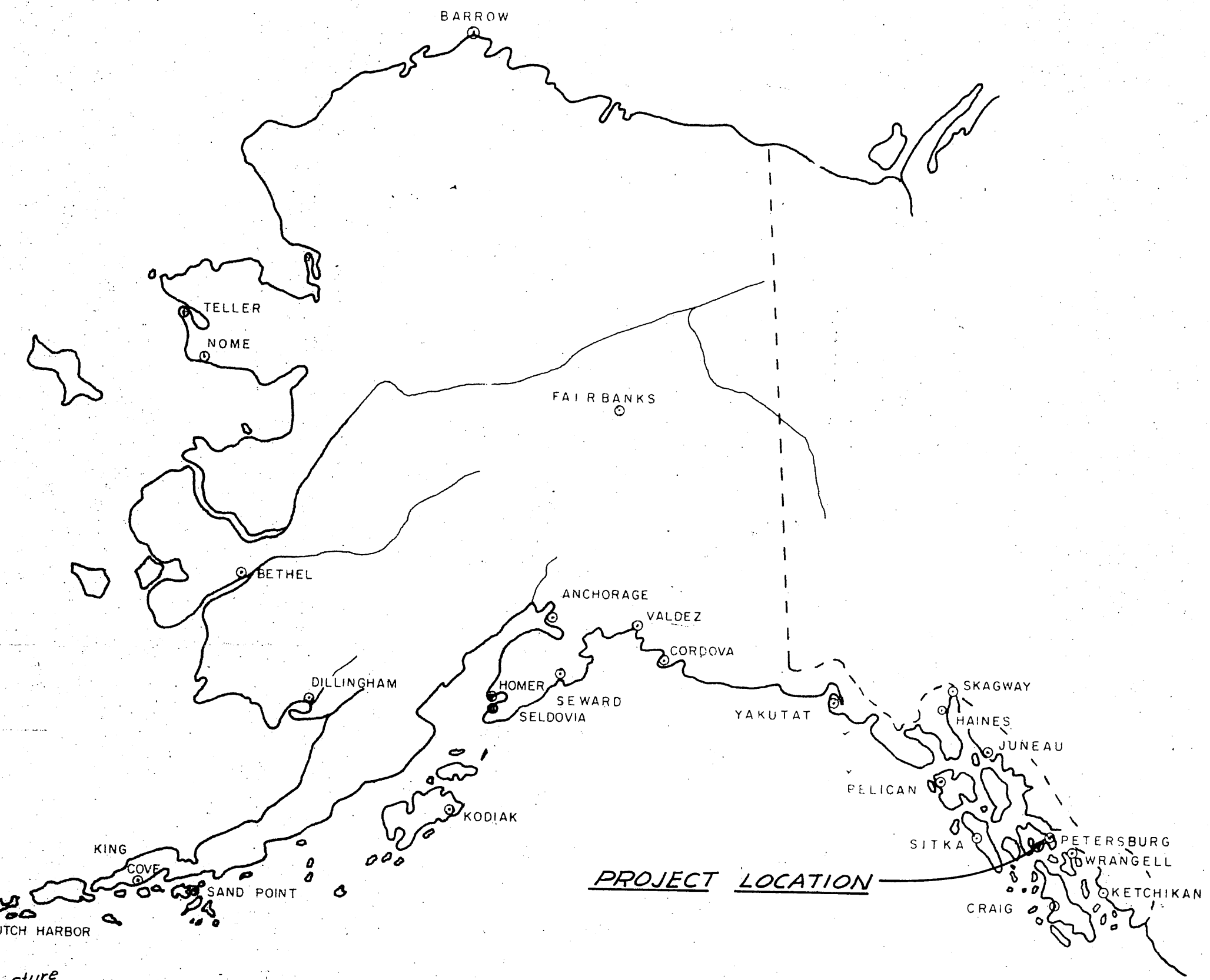
DEPARTMENT OF PUBLIC WORKS

DIVISION OF WATER & HARBORS

PETERSBURG BOAT HARBOR FACILITIES

PROJECT NO. W-65158

- LEGEND**
- Existing log floats to be removed
 - New construction
 - Existing facilities to remain
 - Relocated log float
 - Existing float & stall piling to remain
 - Stall piling to be removed
 - New piling to be driven
 - Existing piling to be redriven
 - Existing approach structure to be redecked - Existing grid catwalk to be reconstructed



WORK SUMMARY

The basic project shall consist of the removal of 1736 L.F. of existing log floats & relocation of 245 L.F. of log float, the pulling of 89 piling, redriving 37 piling, furnishing & driving 20 new piling (1170 L.F.), construction & installation of 17,670 S.F. of polystyrene float, a 6'x50' steel gangway & a 6'x51' (306 S.F.) approach structure.

Alternate No.1 shall consist of redecking the 14'x55' main approach & redecking & rehabilitating the grid approach & walkway.

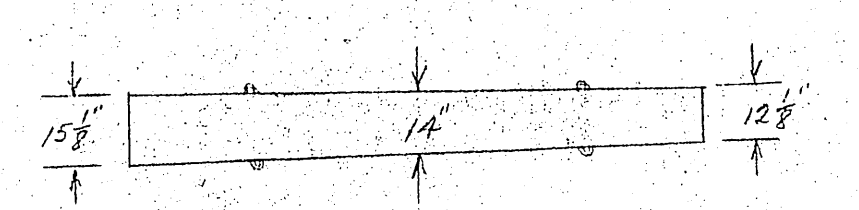
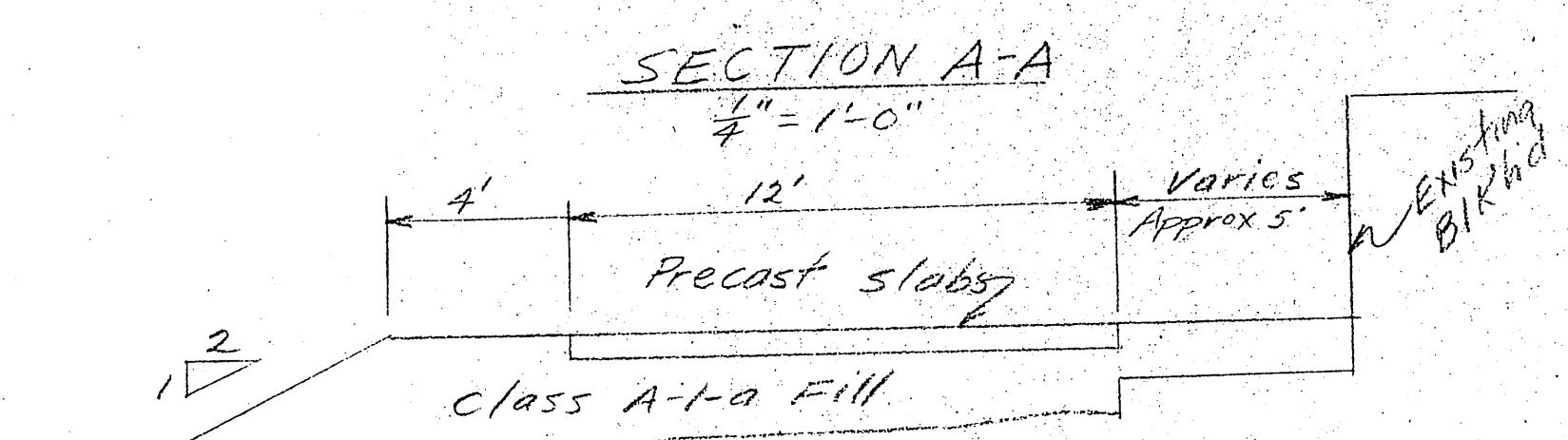
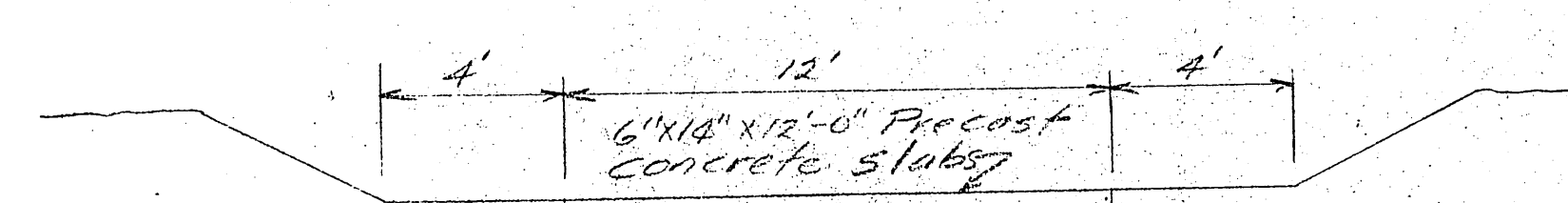
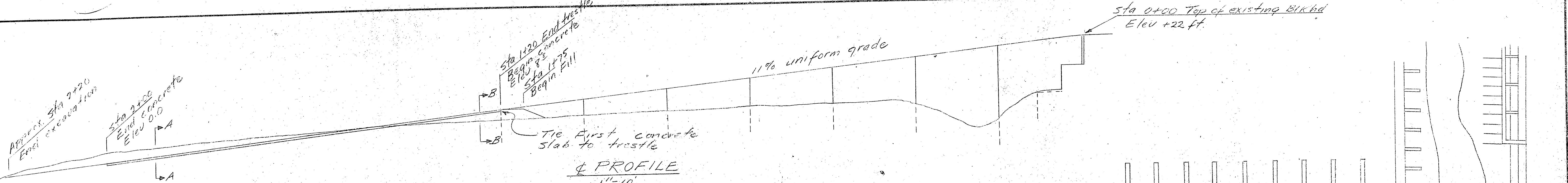
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TYPICAL 6' FLOAT WITH INTEGRAL STALLS	SHEET NO. 4
TYPICAL STEEL GANGWAY	SHEET NO. 5
	SHEET NO. 6

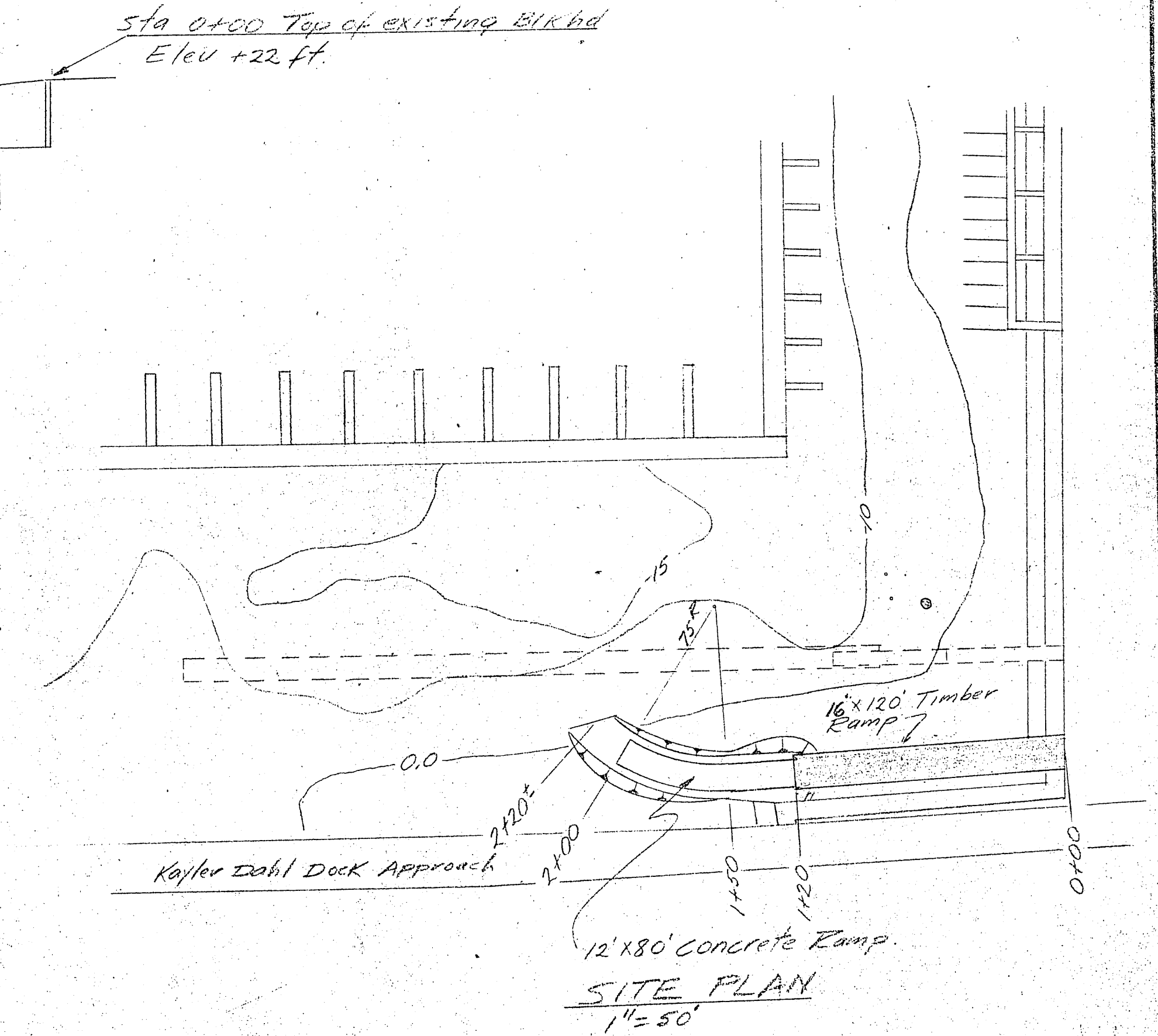
Notes:

1. Existing log floats & piling to be removed as shown. Of the 89 piling to be pulled 37 of the better piling shall be re-used as designated to secure the new stall floats, relocated log floats & new 10' float.
2. Used piling shall be utilized in the 6'x51' Approach Structure. Remaining piling to be turned over to the city of Petersburg.
3. 20 new piling shall be furnished by the contractor to be utilized as designated in the new float construction.
4. Those log floats that are not re-used shall be disposed of by the contractor in a manner acceptable to the Engineer.
5. Piling to be driven butt down to 12' penetration or refusal as may be determined by the Engineer.
6. Float pile cut-off elev. +30.5'. Stall pile cut-off +25.9'.
7. New float piling to be spaced 37'-6" except as noted.
8. Omit tie-down bolts of 4'x32' & 4'x42' stall floats & where 10' floats are joined. Tie down rails to be in one piece between stalls - no splices. Do not make tie down rail cut-outs for 3'x17' stall floats. 3'x17' stall float longitudinal sills shall be extended to opposite side of 10' float & bolted to exterior stringers only.
- 9.

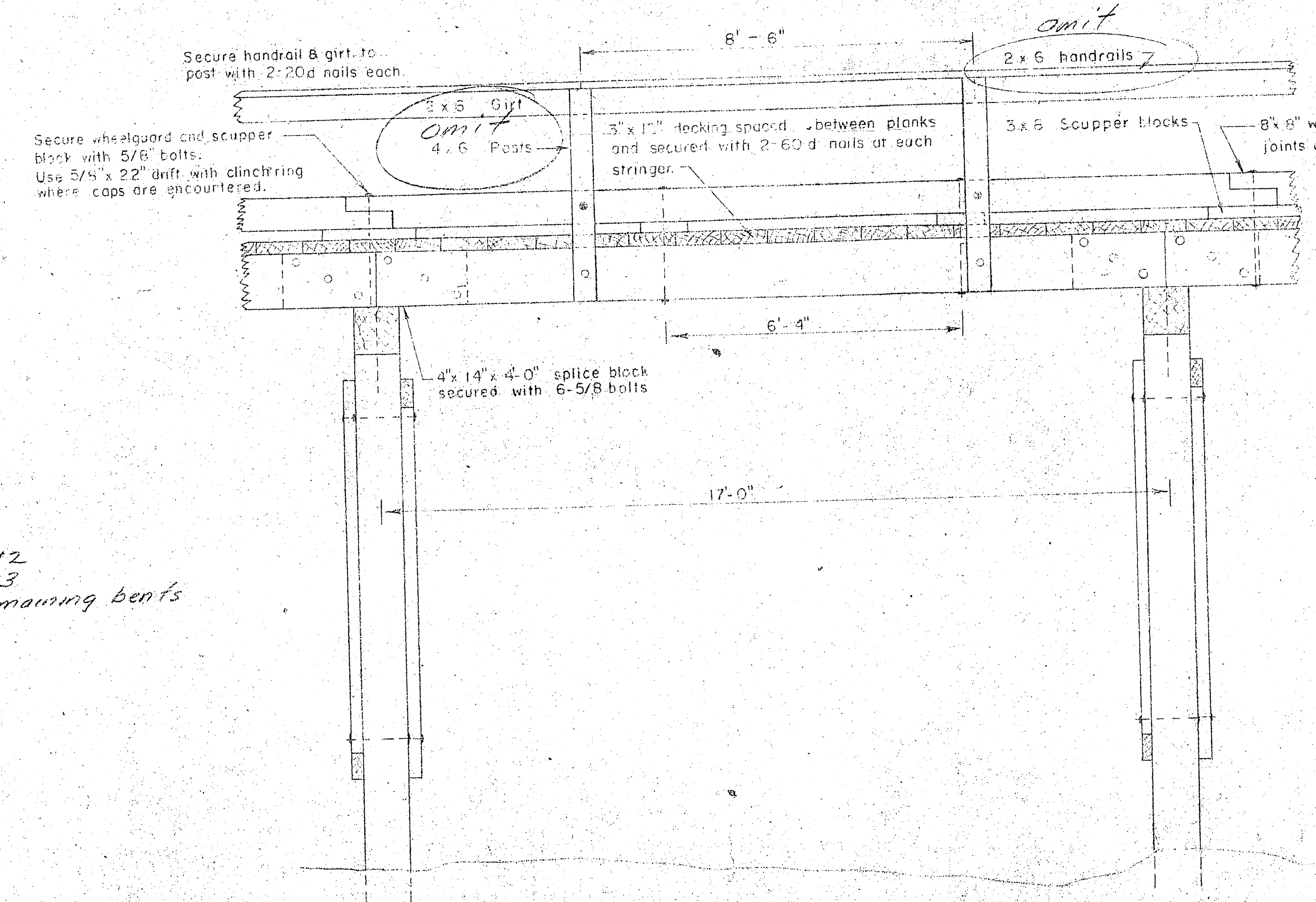
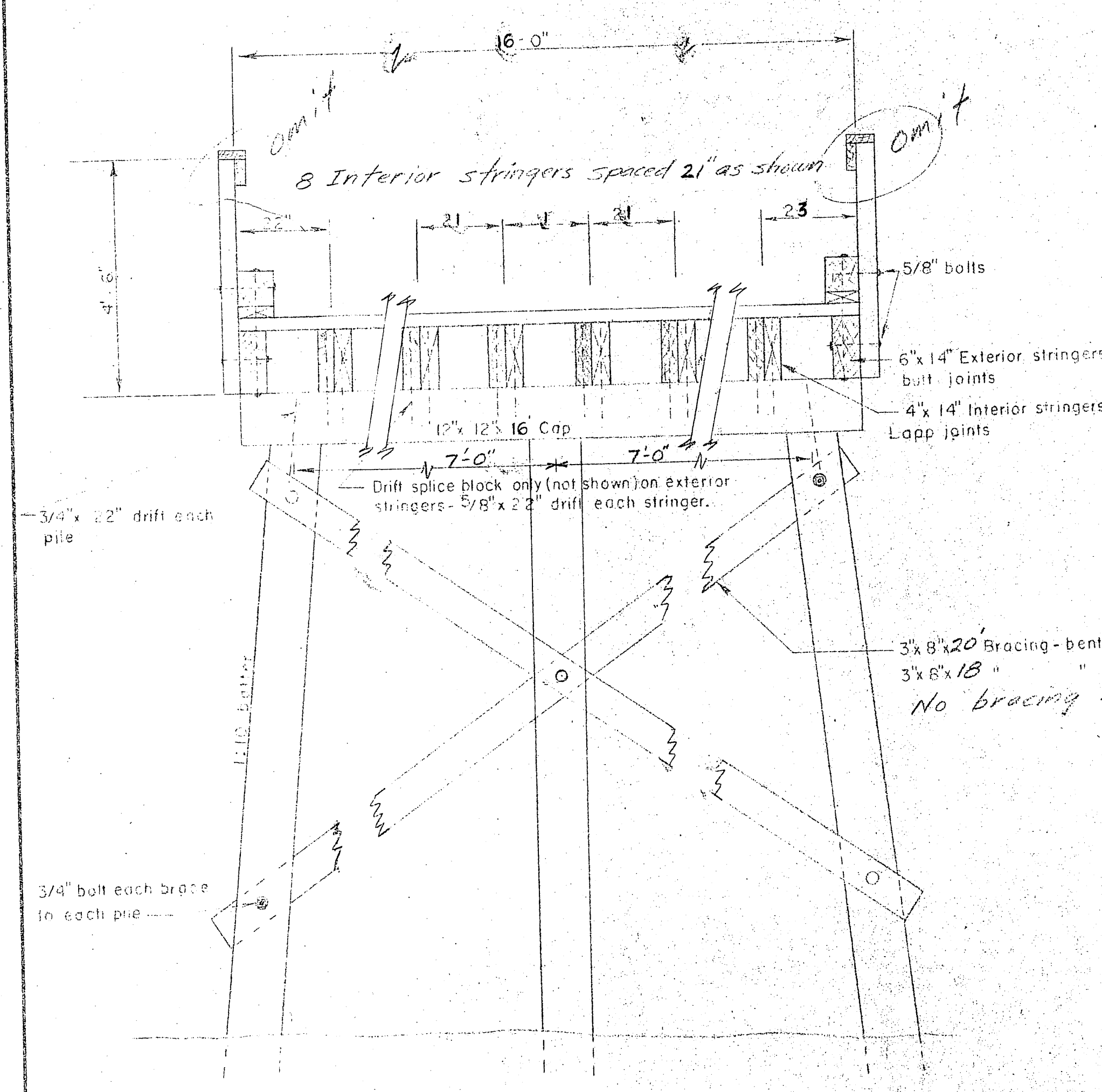
DATE _____	APPROVED _____	COMMISSIONER _____
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- NOTE**
1. Timber ramp construction shall conform to the Typical 12' Approach structure shown below.
 2. Omit handrails
 3. Concrete ramp construction shall conform to the Homer Small Boat Launching Ramp - Corps of Eng's Small Boat Basin Reconstruction project sheet 5 except as noted.



- NOTES**
- All hardware to be galvanized with malleable iron washers between nut and wood surfaces.
 - All bolts to be of mushroom head type. Bolt holes to be drilled true size. Drift holes to be drilled 1/16" oversize. All drift holes to be treated with hot creosote. All pressure treated creosote material shall be cut to size prior to treatment.



* Used creosote piling in satisfactory condition may be utilized

ITEM	GRADE	DRESSING	CREO. TREAT	TYPE
* Piling	Class E	Rough	12"	Ret. Douglas Fir
Bracing	Construction	S4S	12"	"
Caps	"	S4S	"	"
Ext. Stringers	"	S2E	"	"
Splice Blocks	"	"	"	"
Int. Stringers	"	"	"	"
Decking	"	S1S2E	"	"
Scupper Bl.	"	S4S	"	"
Wheelguard	"	"	"	"
Handrail Post	"	"	"	"
Handrail	"	"	"	"
Wagon Deck	"	S1S2E	NONE	SITKA SPRUCE

2-8164 change handrail post spacing
1-1165 change creosote treatment - add wood deck -
" piling grade

NO	DATE	REVISION	BY

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

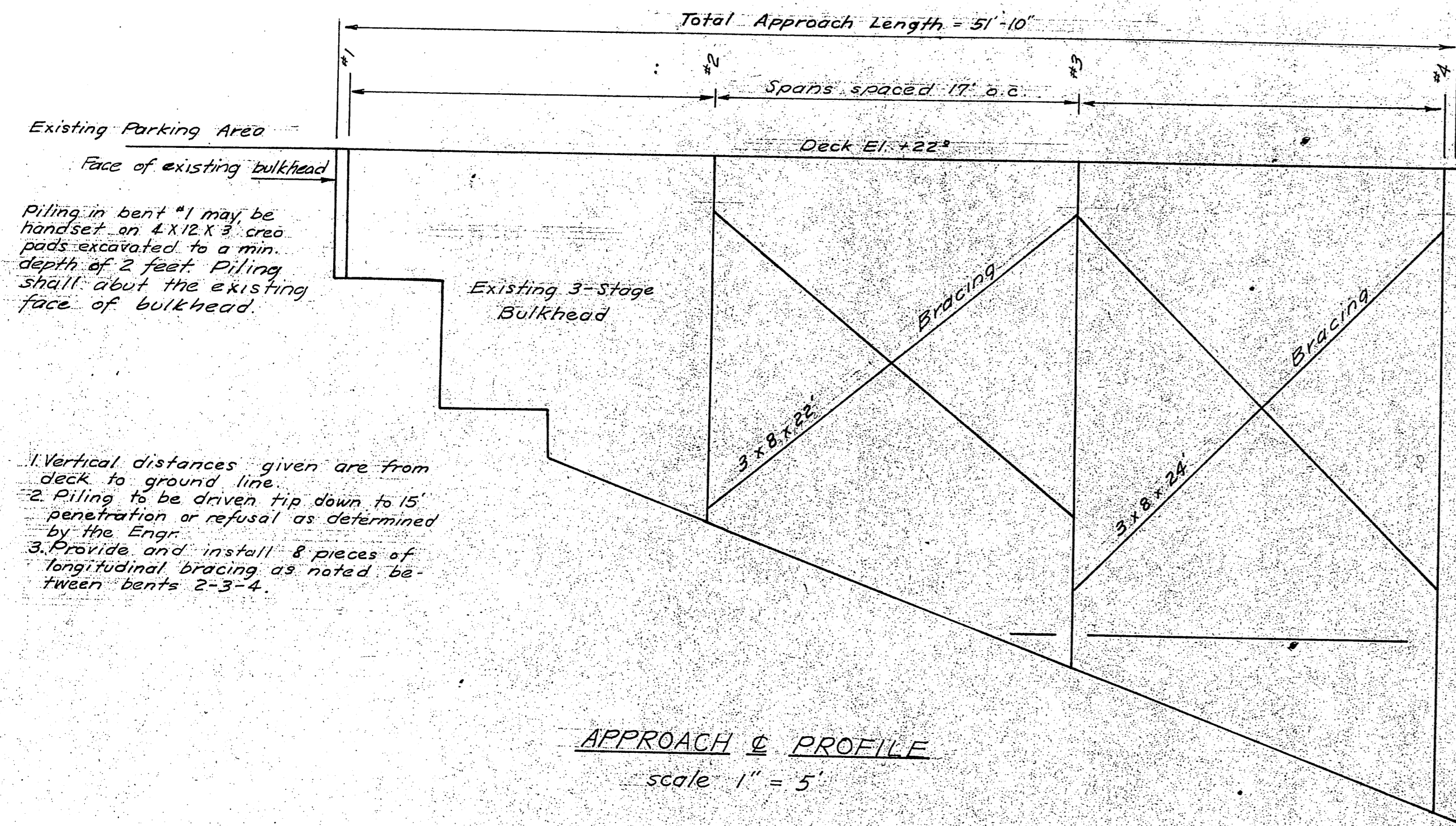
CHANGE ORDER #1
Petersburg Boat Harbor Facilities

SCALE As Shown
DATE April 27/65
PROJ. NO. 65158

APPROVED: *[Signature]*
COMMISSIONER

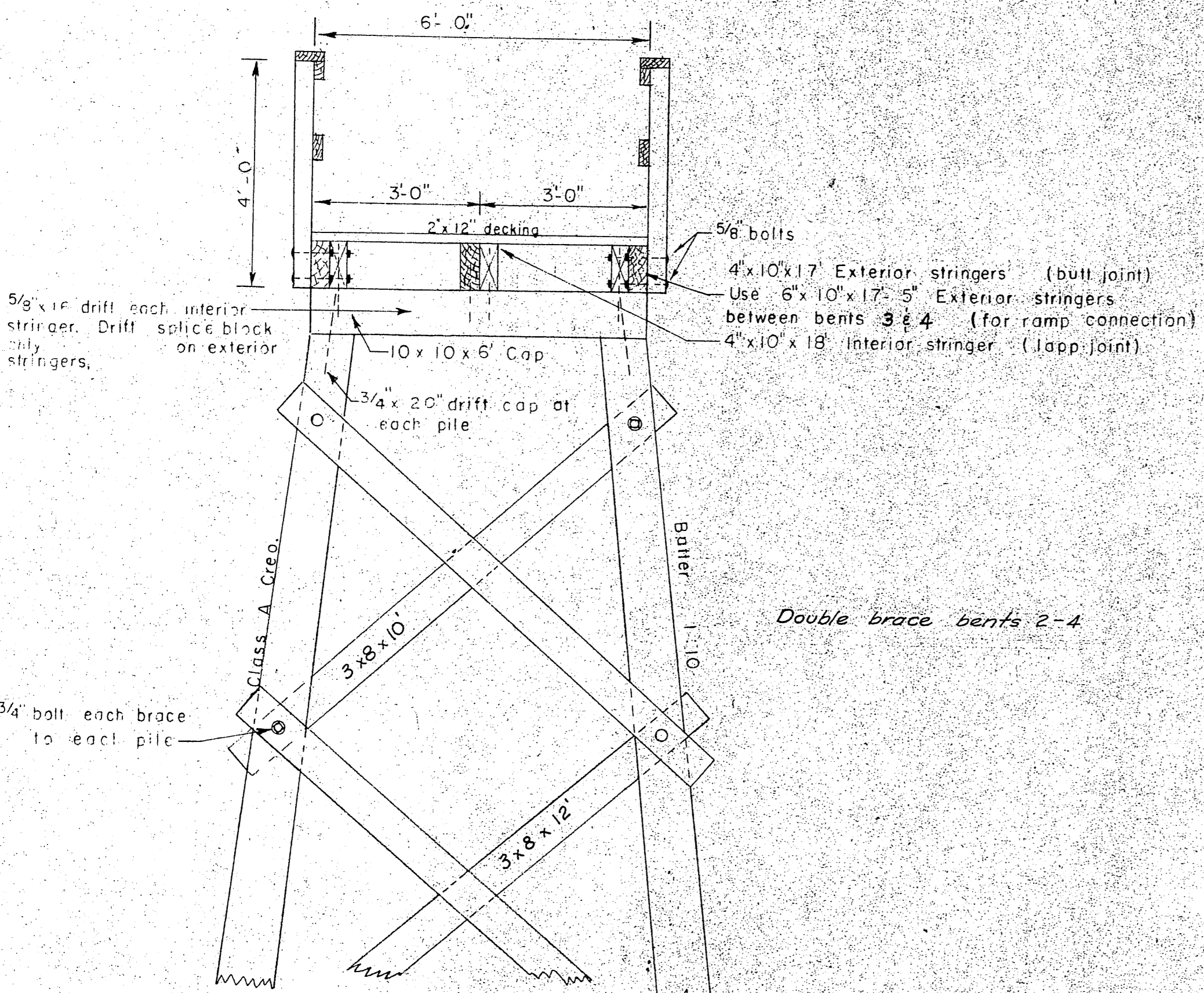
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PETERSBURG B.H. FACILITIES
4-4-79

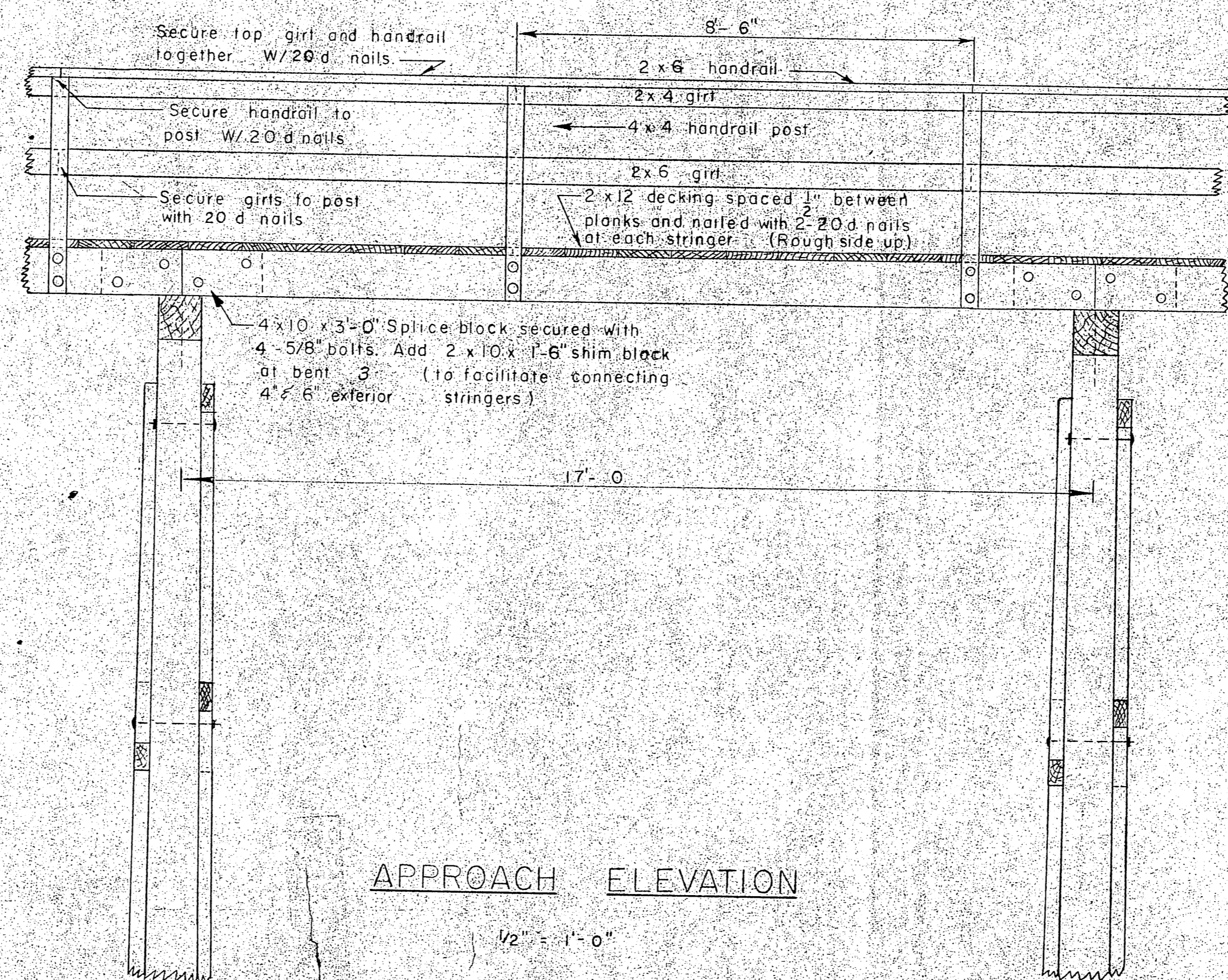


APPROACH & PROFILE
scale 1" = 5'

1. Vertical distances given are from deck to ground line.
2. Piling to be driven tip down to 15' penetration or refusal as determined by the Engr.
3. Provide and install 8 pieces of longitudinal bracing as noted between bents 2-3-4.



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



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

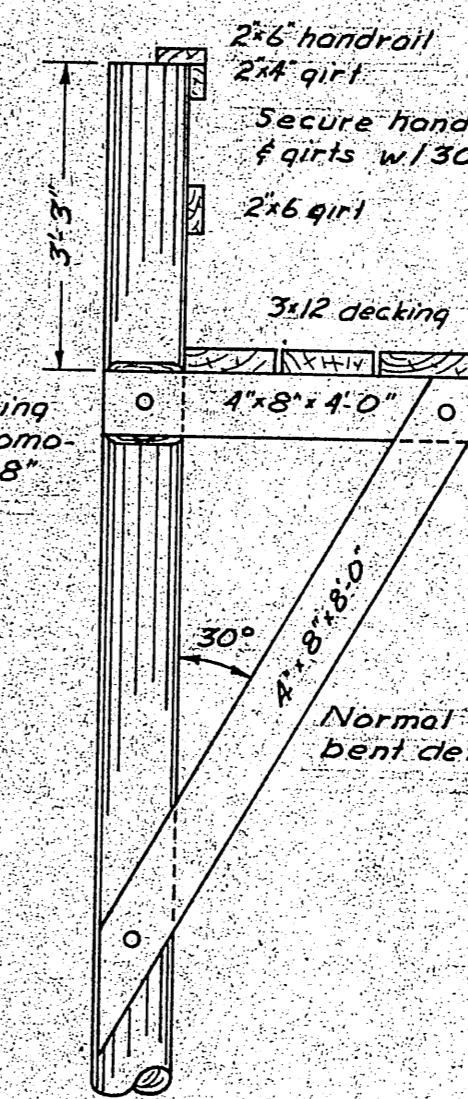
8x8 Tie down rails to be spliced using 3/8" x 7/2" x 4'-0" LP secured w/ 5/8" bolts

Decking at float angles to be wedge cut to provide smooth transition about angle.

6x8 Stringers to be spliced using 3/8" x 5/8" x 4'-0" LP secured w/ 5/8" bolts

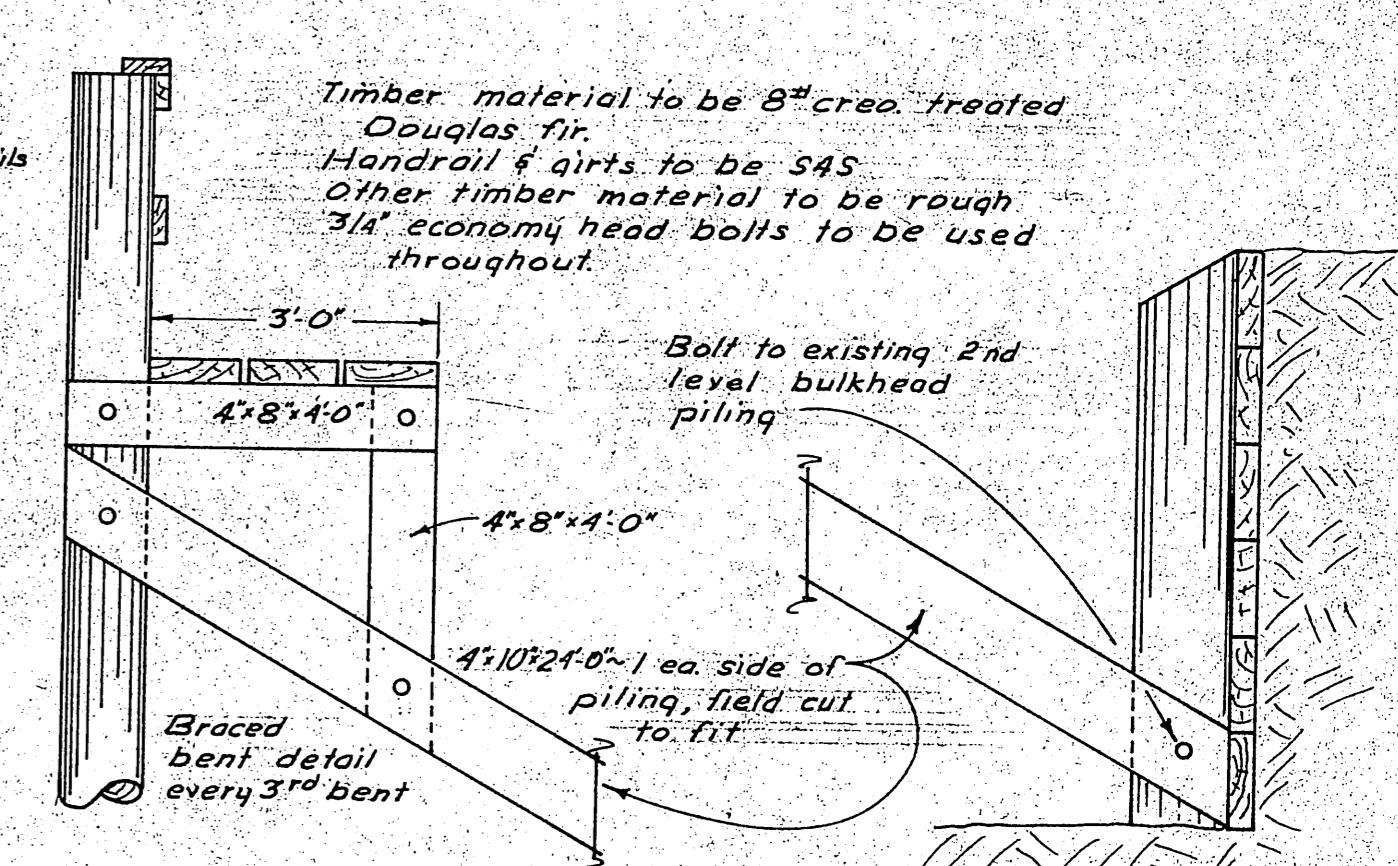
MAIN FLOAT CONNECTION
Scale 1" = 4'

dapp piling 4" to accommodate 4"x8" member



Normal bent detail

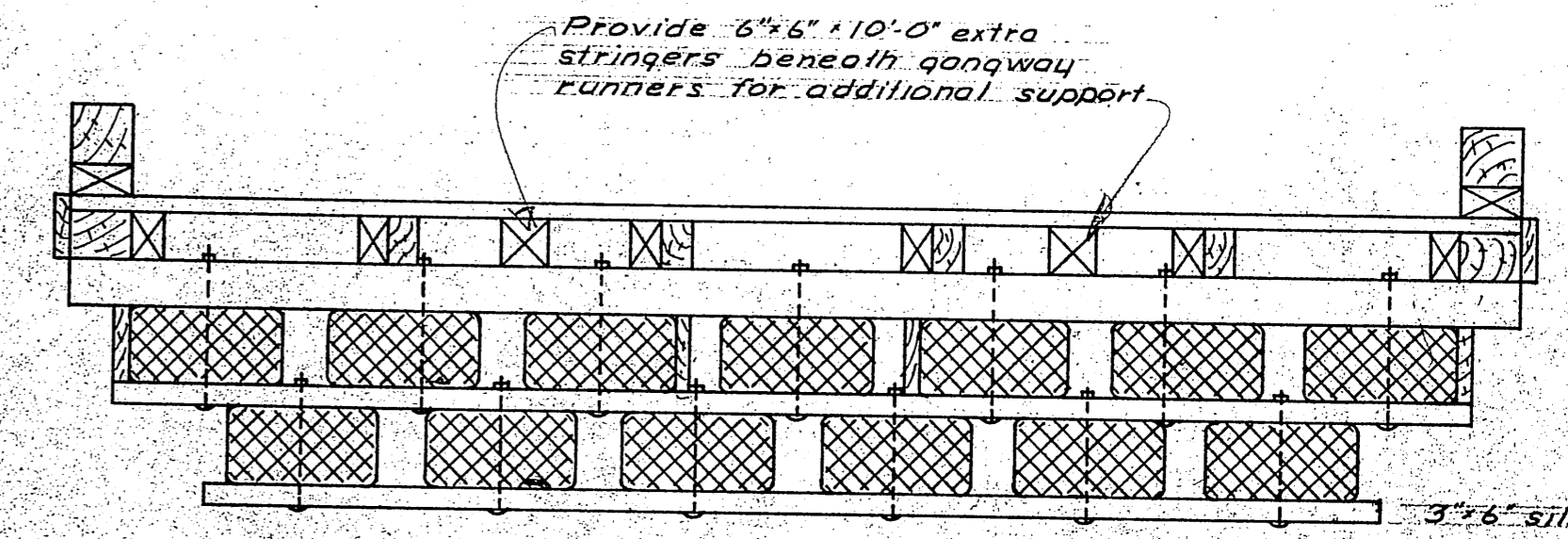
2x6 handrail
2x4 girt
Secure handrails 4 girts w/ 30 d nails
2x6 girt



Braced bent detail every 3rd bent

Timber material to be 8" creosote treated Douglas fir.
Handrail & girts to be S4S
Other timber material to be rough 3/4" economy head bolts to be used throughout.

Bolt to existing 2nd level bulkhead piling



MODIFIED PONTOON SECTION AT STEEL GANGWAY
Scale 1/2" to 1'-0"

Provide 8 additional billets to provide extra flotation as shown.

Provide 2"x10"x10'-0" members for compression support

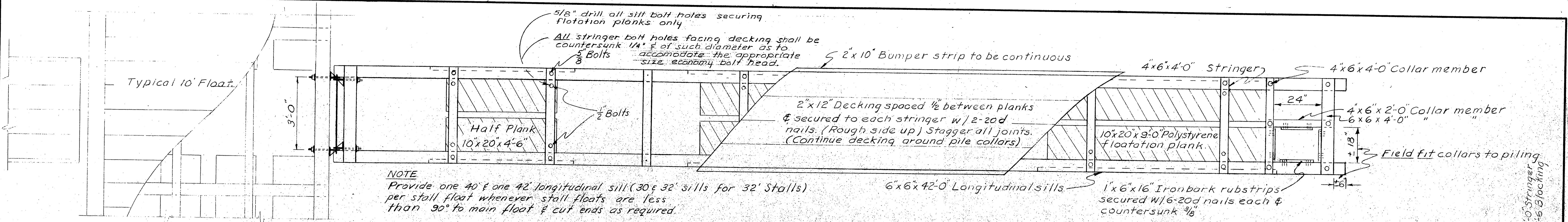
CONSTRUCTION DETAILS
GRID RENEWAL
Scale 1/2" to 1'-0"

MATERIALS				
ITEM	GRADE	DRESSING	TREATMENT	MATERIALS
PILING	CLASS B		12# RET	DOUGLAS FIR
BRACING	CONST.	ROUGH	" "	" "
CAPS	" "	S4S	8# RET	" "
STRINGERS	" "	" "	" "	" "
SPLICE BLOCK	" "	" "	" "	" "
DECKING	" "	S1S	" "	" "
HANDRAIL POST	" "	S4S	" "	" "
HANDRAILS	" "	" "	" "	" "
GIRTS	" "	" "	" "	" "

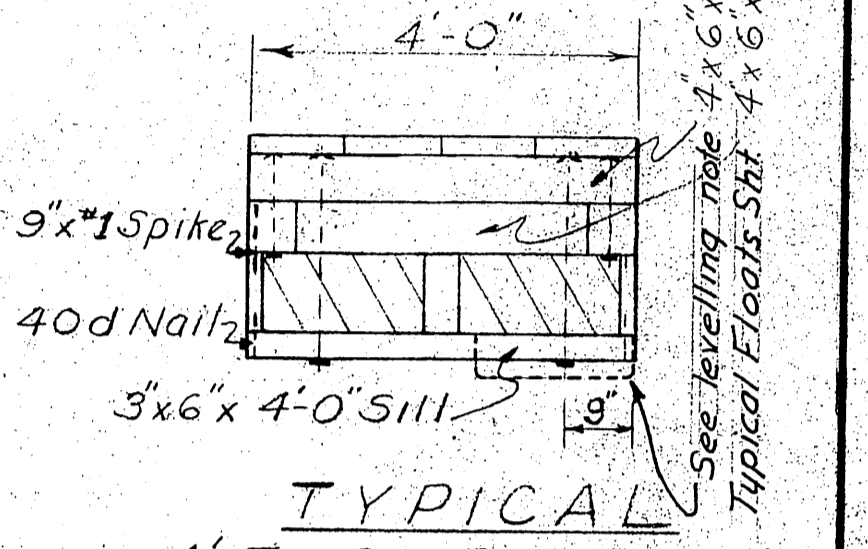
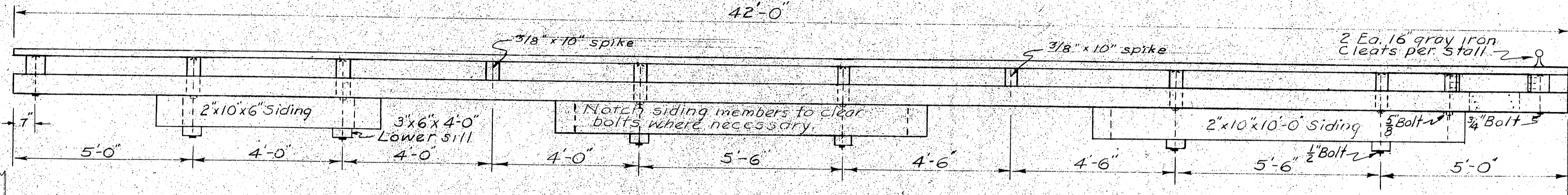
All 12" creosote treatment to be full cell empty cell

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 1/16" 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.

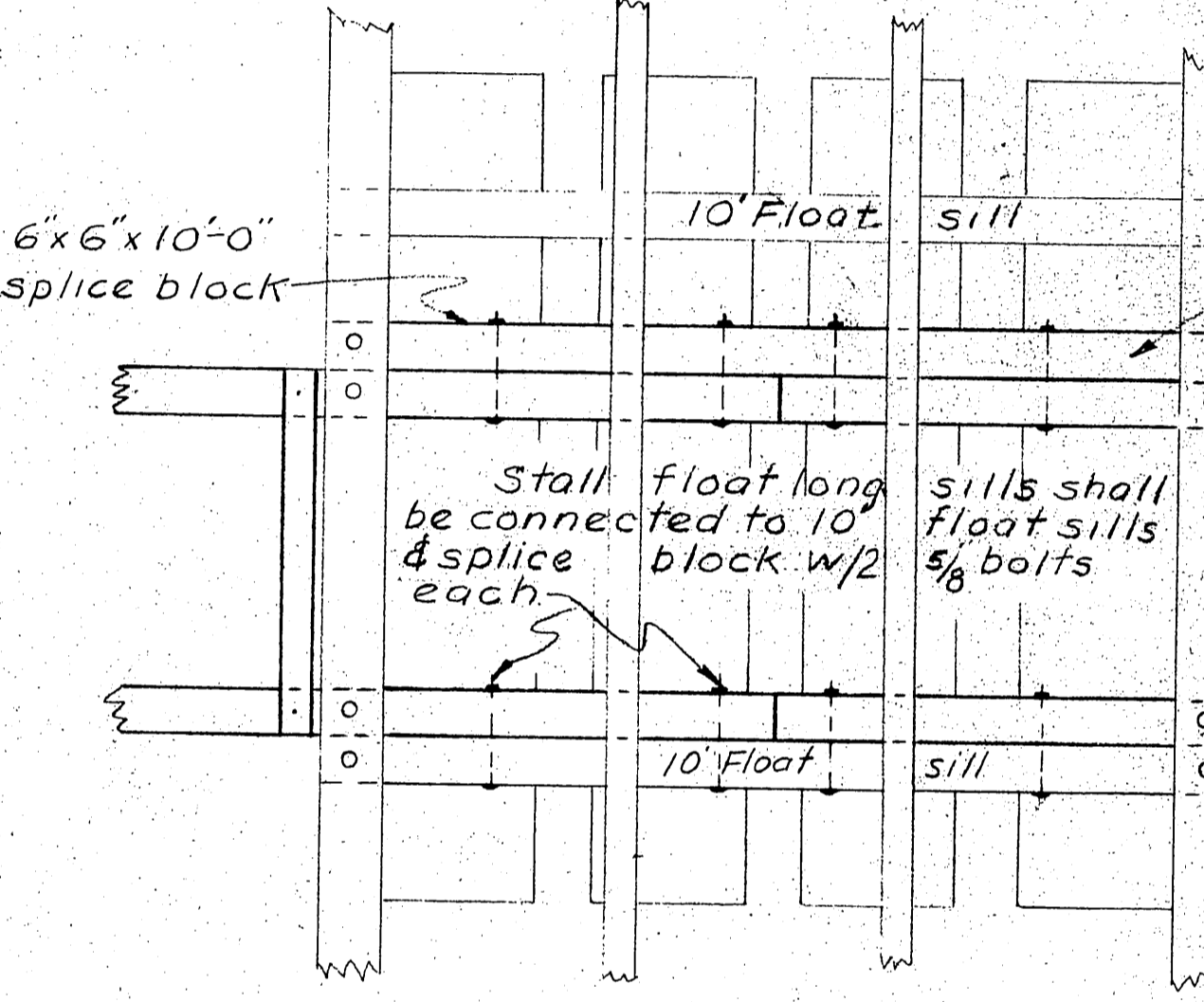
NO.	DATE	REVISION	BY
3/64		change handrail post spacing	
1/68		changed creosote treatment - piling grade splice blocks	
		4 bolts - delete one interior stringer	
STATE OF ALASKA DEPARTMENT OF PUBLIC WORKS DIVISION OF WATER AND HARBORS			
TYPICAL 6'-0" APPROACH CONSTRUCTION DETAILS			
SCALE As Shown	DATE 11-4-64	APPROVED	COMMISSIONER
PROJ. NO. W65/52		SURVEYED BY	DRAWN BY DLF CHECKED BY



NOTE
Provide one 40' & one 42' longitudinal sill (30' & 32' sills for 32' stalls)
per stall float whenever stall floats are less than 90' to main float & cut ends as required.

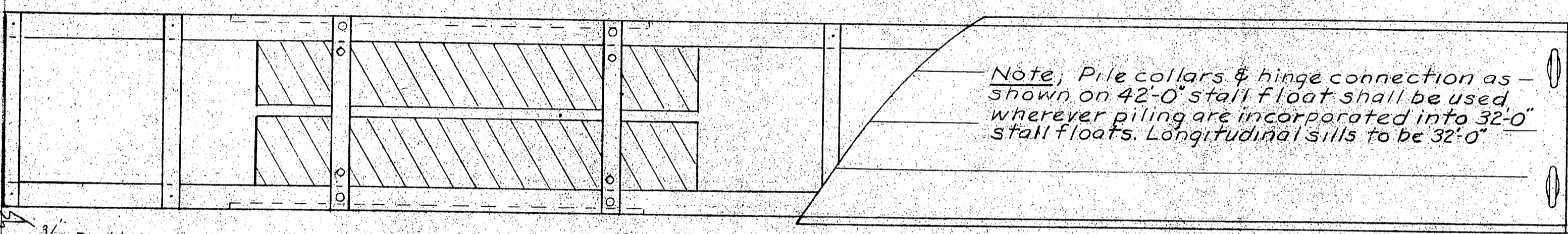


TYPICAL 4' FLOAT SECTION



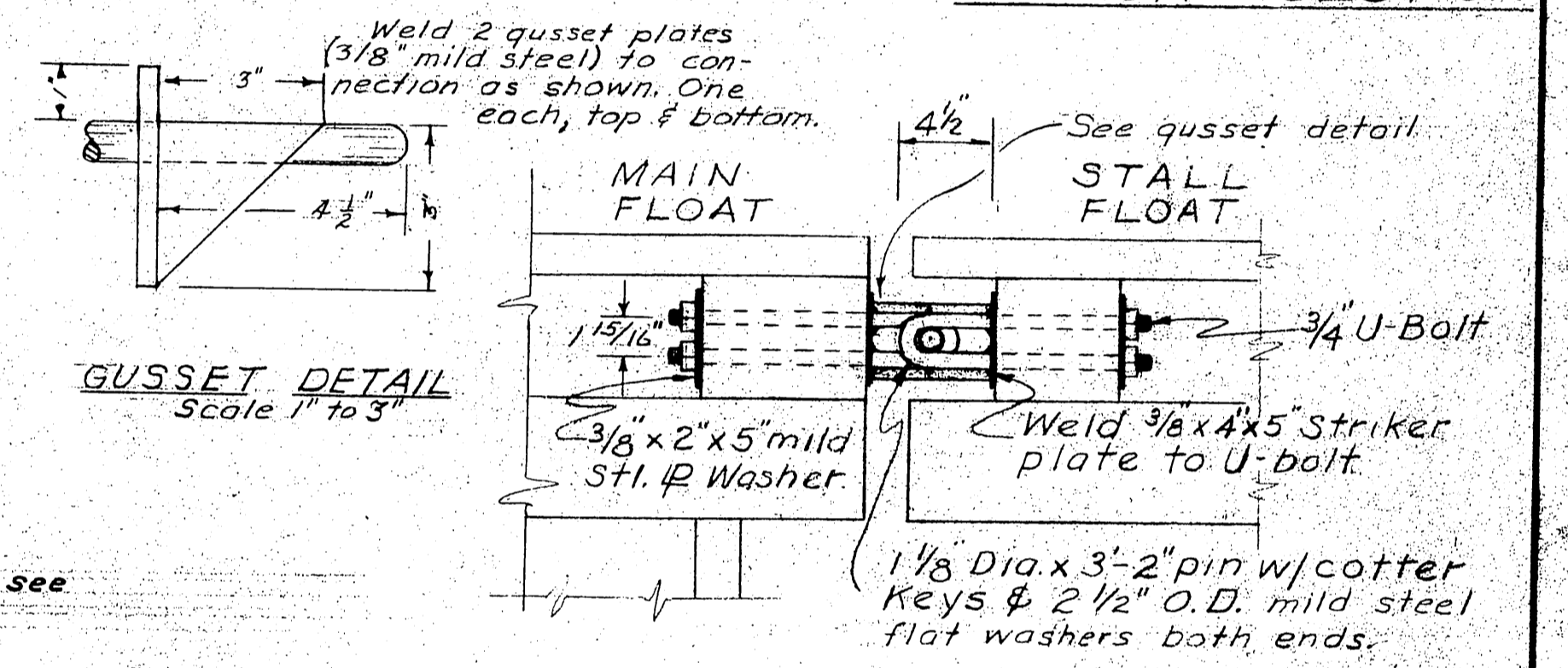
Where 4' x 32' stall floats are on one side of float extend longitudinal stall float sills to opposite side, omit splice blocks & bolt to exterior stringers only.

4'-0" x 42'-0" STALL FLOAT



NOTE: All construction shall conform to 42'-0" stall float construction except as noted.

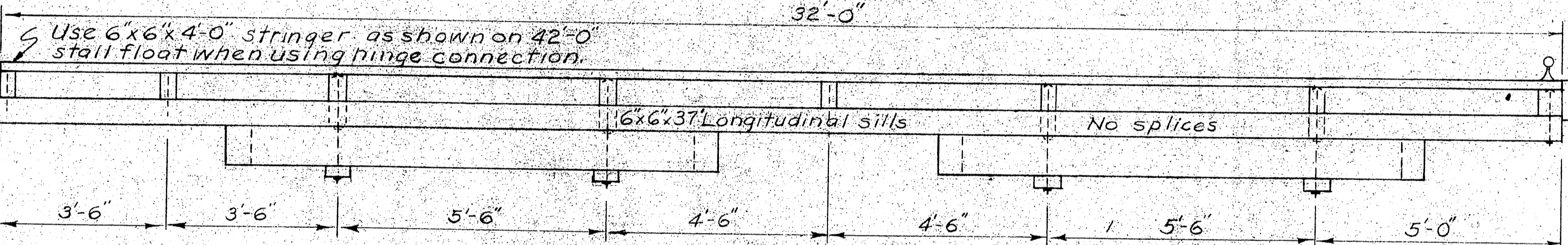
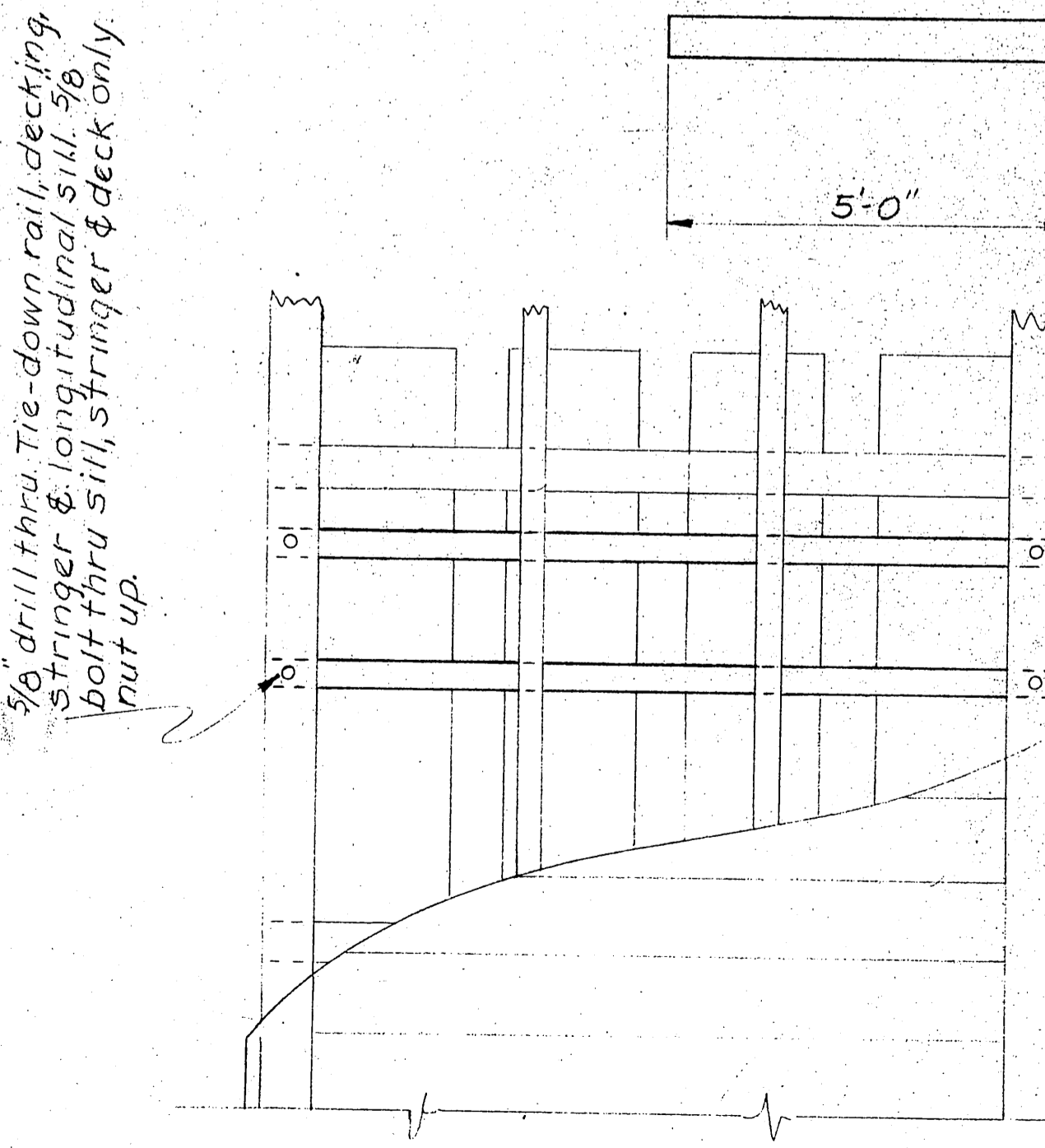
Note: For float leveling note see Typical Float sheet



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

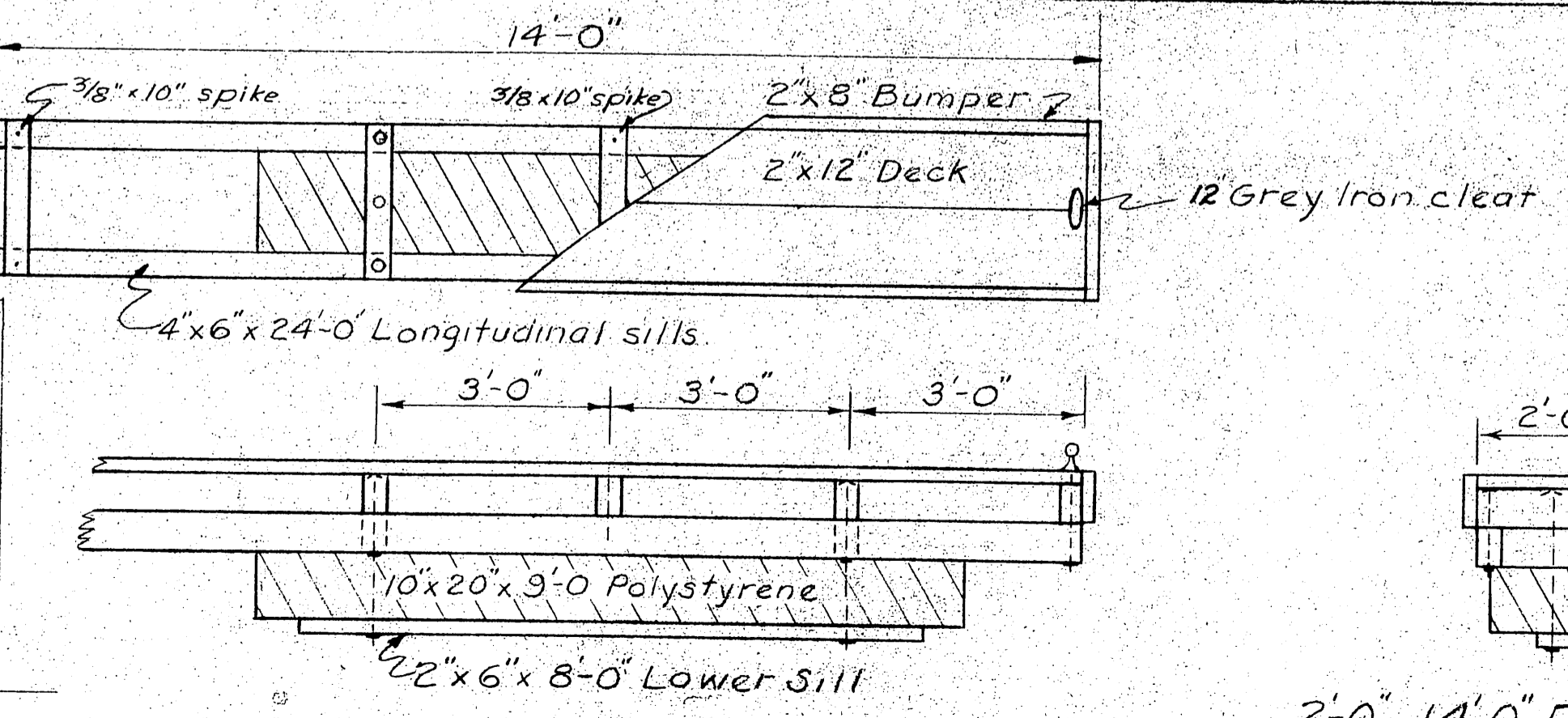
NOTES

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 headed 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 3/8" unless otherwise specified. When tie down rails are omitted at stall floats add blocking & bolt tie down rail to exterior stringer. All bolt holes to be drilled & countersunk (where reqd) prior to treatment except as noted.



4'-0" x 32'-0" STALL FLOAT

Note: 32' integral stalls to be alternately spaced 27'-0" & 27'-6" between stalls (to conform to 10' float sill spacing) when constructing new 10' float w/ integral 32' stalls, decking shall span between stall & 10' float - stagger splices.



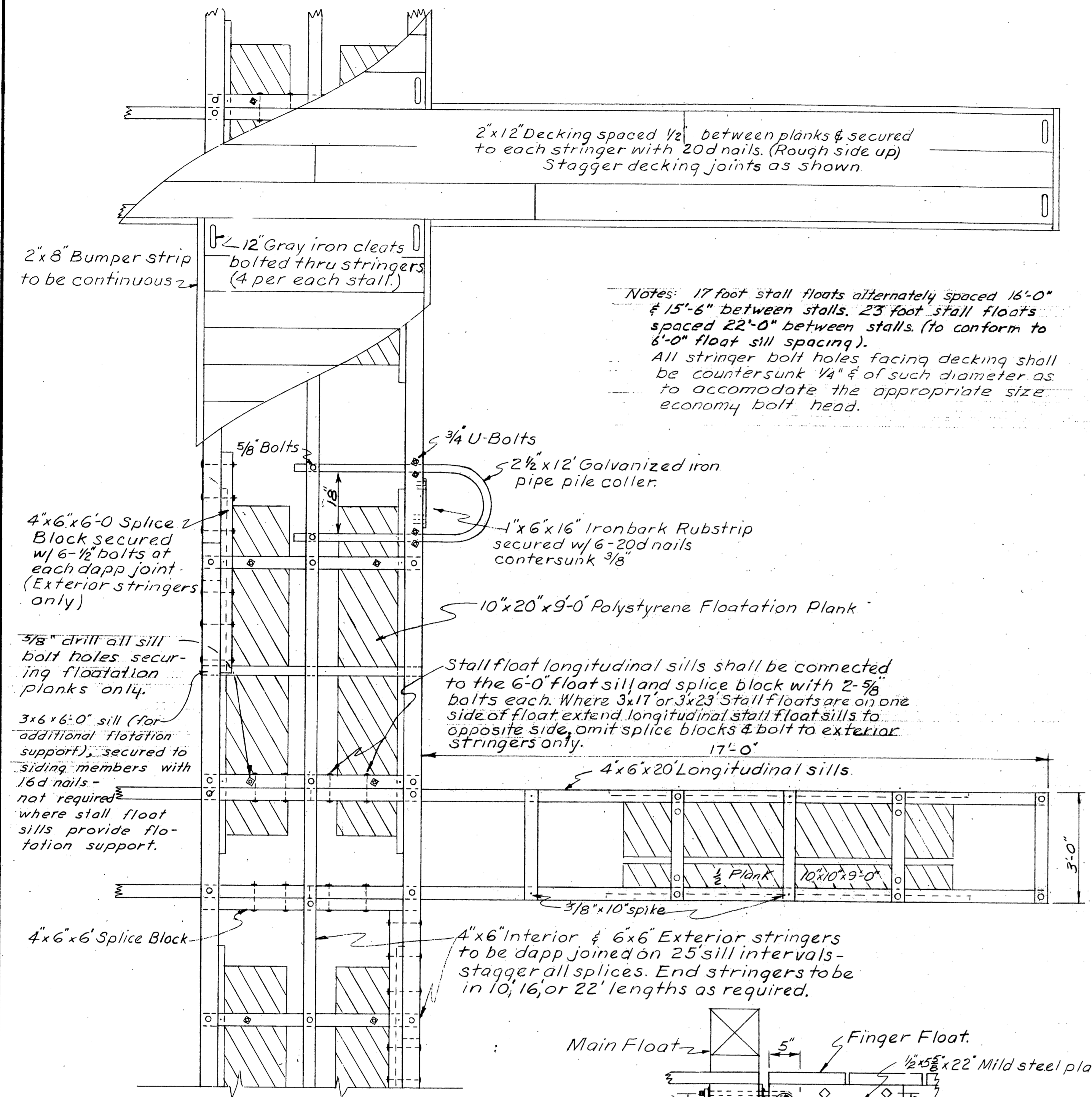
MATERIALS				
ITEM	GRADE	DRESSING	TREATMENT	TYPE
PILING	CLASS A	Constr.	12" Ref	DOUGLAS FIR
3" x 6" & 2" x 6" Sills				
2" x 10" Siding				
4" x 6" Stringers		S-2-E	8"	
6" x 6" Collars				
6" x 6" Splice Blocks			12"	
4" x 6" & 6" x 6" Long. Stall Float Sills				
4" x 6" Blocking				
2" x 12" Decking		S-1-S-2-E	8"	
2" x 10" Bumpers		S-1-S-2-E or S4S		
Note: All 12" Creosote treatment to be full cell				
" 8" "				empty cell

NO	DATE	REVISION	BY
2	8/64	1/4" countersinking on stringer bolt holes	
		5/8" drill all flotation plank sill bolt holes	
		modified connection detail, changed cleat size	
		changed creosote treatment, deck nails, bumpers, collar members, flotation plank bolts	

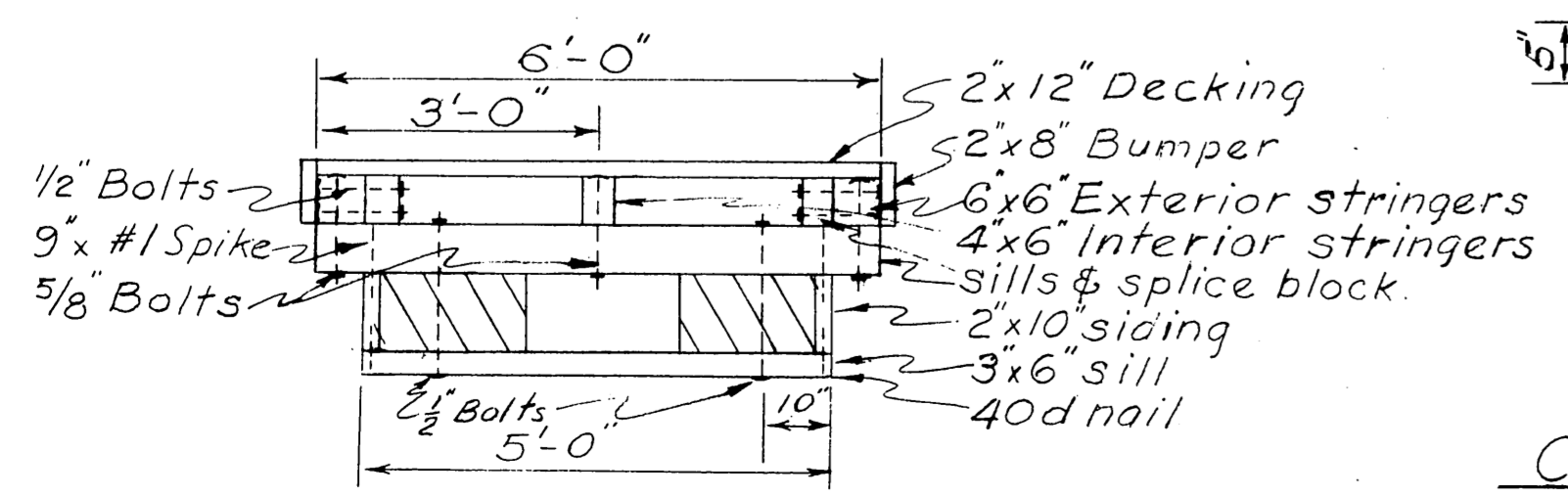
STATE OF ALASKA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF WATER AND HARBORS

TYPICAL STALL FLOATS
4' x 42', 4' x 32', & 2' x 14'

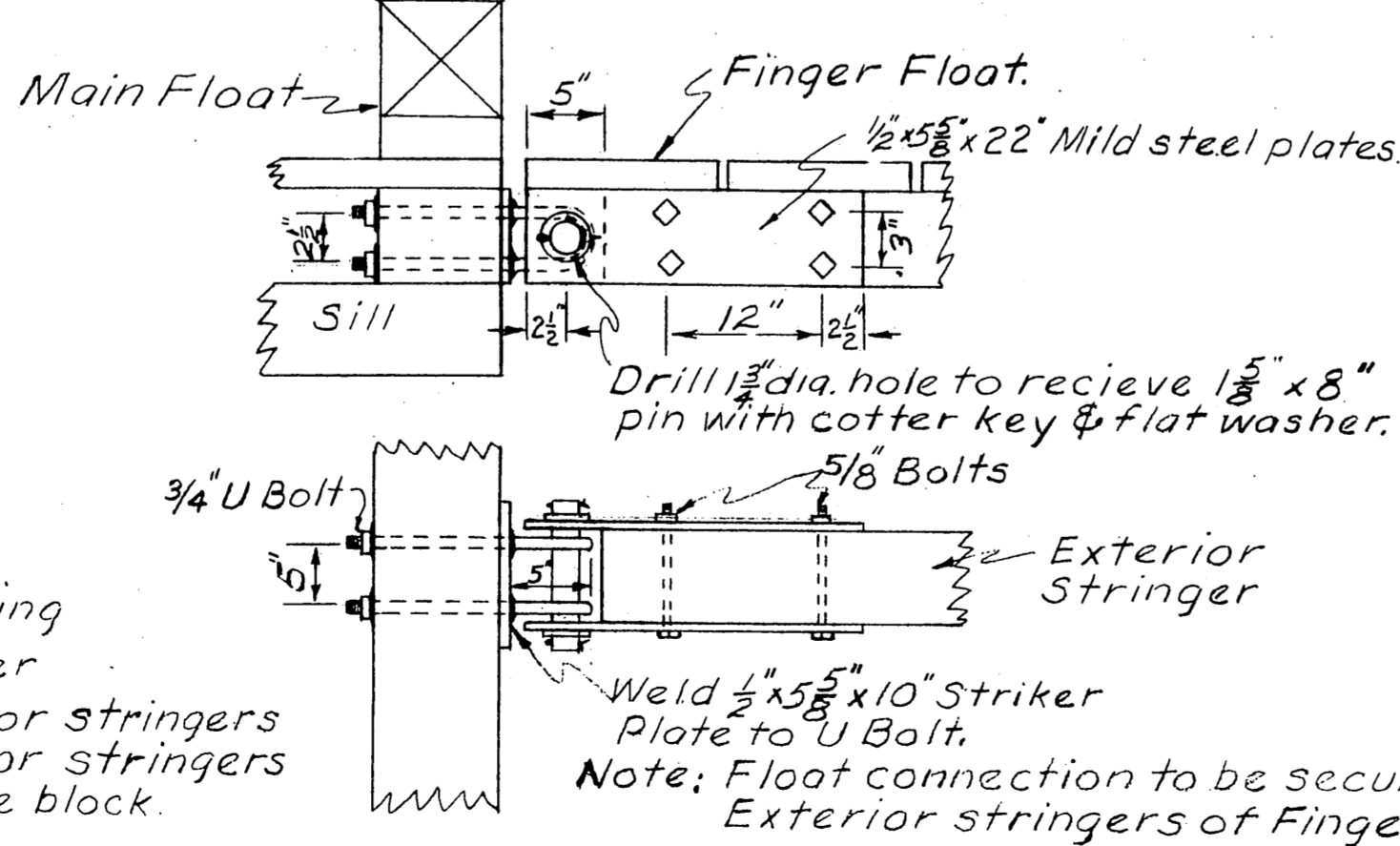
SCALE 1/2" = 1'-0"
DATE Jan. 1963
PROJ. NO. 1963
APPROVED [Signature] COMMISSIONER
SURVEYED BY [Signature] DRAWN BY [Signature] CHECKED BY [Signature]



PLAN VIEW 17' STALL FLOAT ASSEMBLED

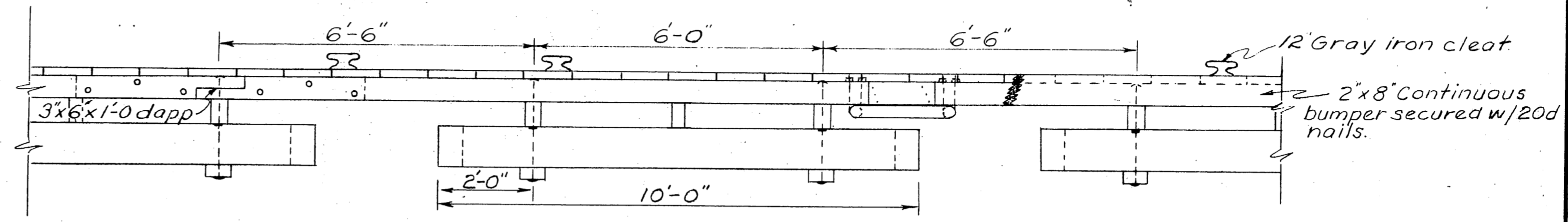


6' FLOAT SECTION

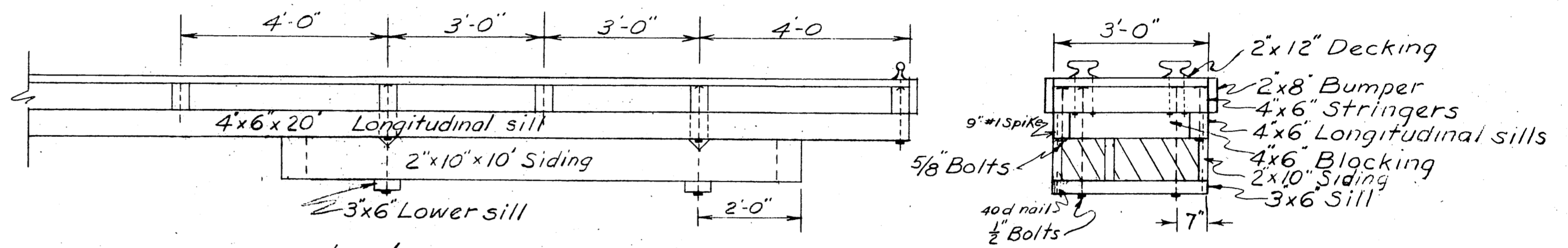


CONNECTION DETAIL

Scale 1"=1'-0"

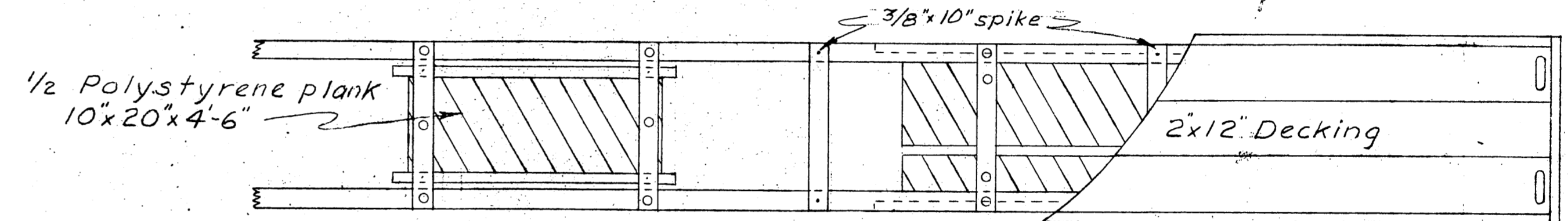


6' FLOAT ELEVATION

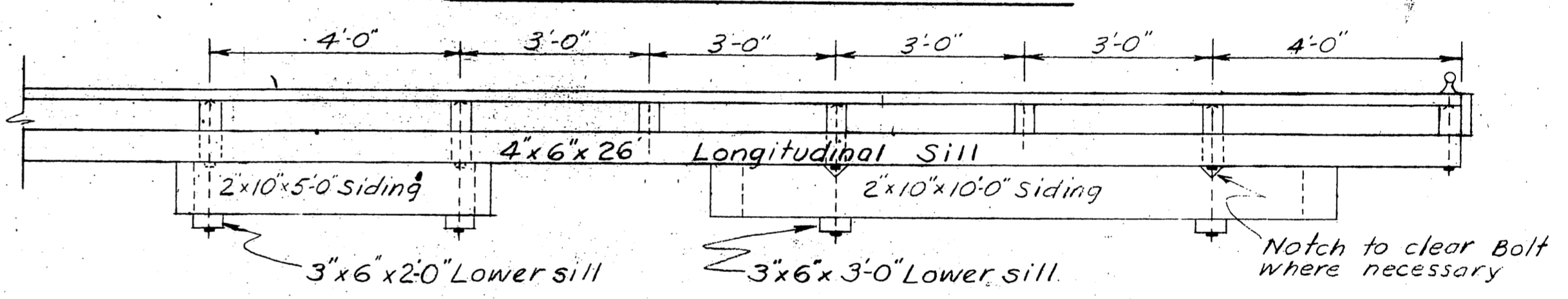


3x17' FLOAT ELEVATION

3' FLOAT SECTION



PLAN VIEW 3x23' FLOAT



3x23' FLOAT ELEVATION

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. All bolt holes to be drilled & countersunk (where reqd) prior to treatment except as noted.

MATERIALS				
ITEM	GRADE	DRESSING	TREATMENT	TYPE
Piling	Class "A"		12" Ret.	Douglas Fir.
3x6 & 4x6 Sills	Constr.	Rough	" "	" "
2x10 Siding	"	"	" "	" "
6x6 Exterior Stringers	"	S-4-S	8"	" "
4x6 Interior Stringers	"	S-2-E	" "	" "
4x6 Splice Blocks	"	"	12"	" "
4x6 Longitudinal Stall Float Sills	"	"	" "	" "
4x6 Blocking	"	"	" "	" "
2x12 Decking	"	S-1-S-2-E	8"	" "
2x8 Bumpers	"	S-4-S	" "	" "

Note All 12" creosote treatment to be full cell
" 8" " " " empty cell

No	Date	REVISION
A	8/24	Add stringer bolt countersinking, 5/8" drill of floatation plank holes, chain hinge connection pin length, U-bolt spread, change cleat size to 12"

3/11/64 change creos treatment - floatation plank bolts
1/22/63 15' & 21' stall floats changed to 17' & 23'
Add siding members - omit Hemlock

NO DATE DATE REVISION 3-22-63 BY

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

TYPICAL 6' FLOAT w/ INTEGRAL STALLS

SCALE 1/2"=1'-0"
DATE Aug. 1962
PROJ. NO.
SURVEYED BY
DRAWN BY
CHECKED BY

APPROVED
COMMISSIONER

