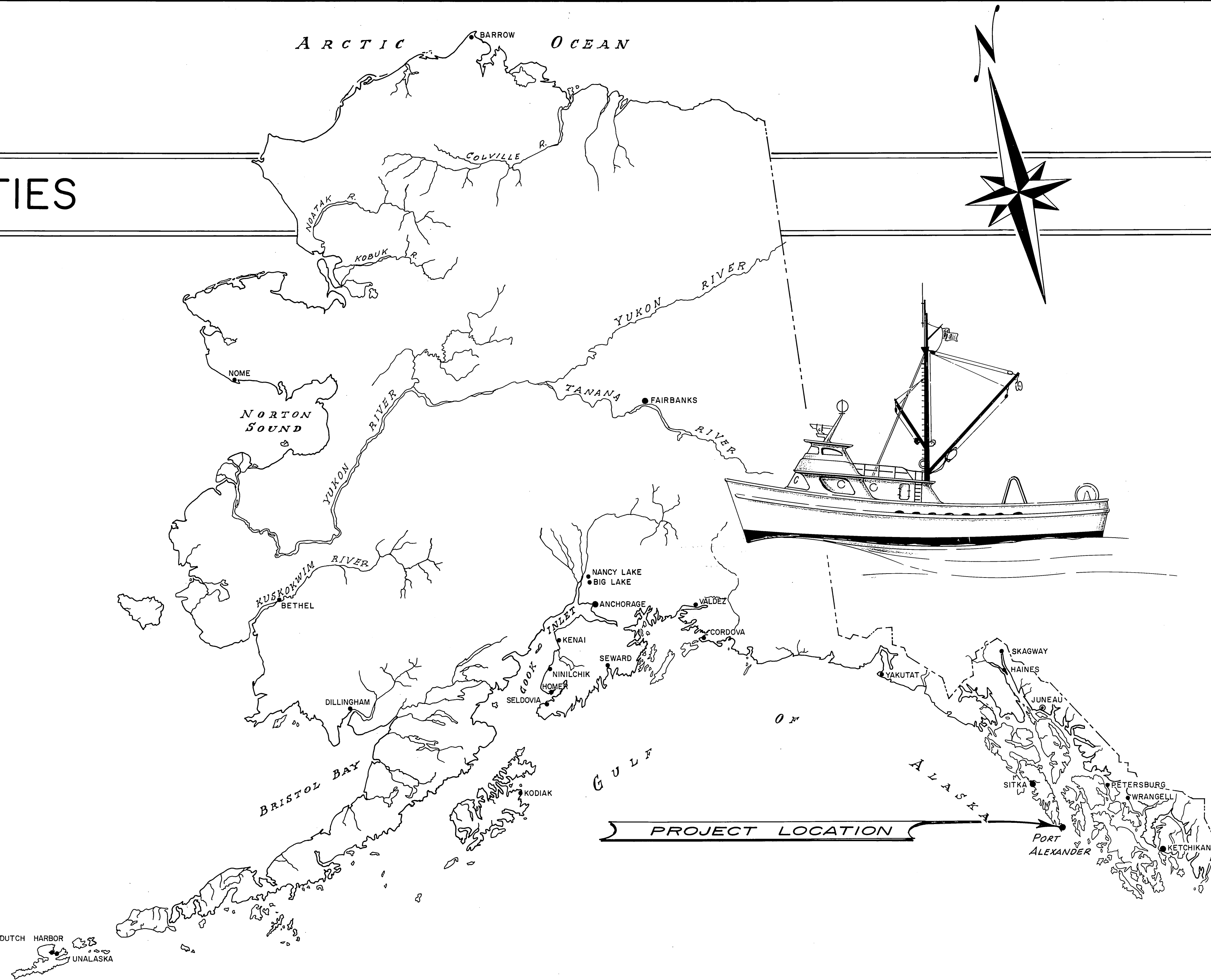
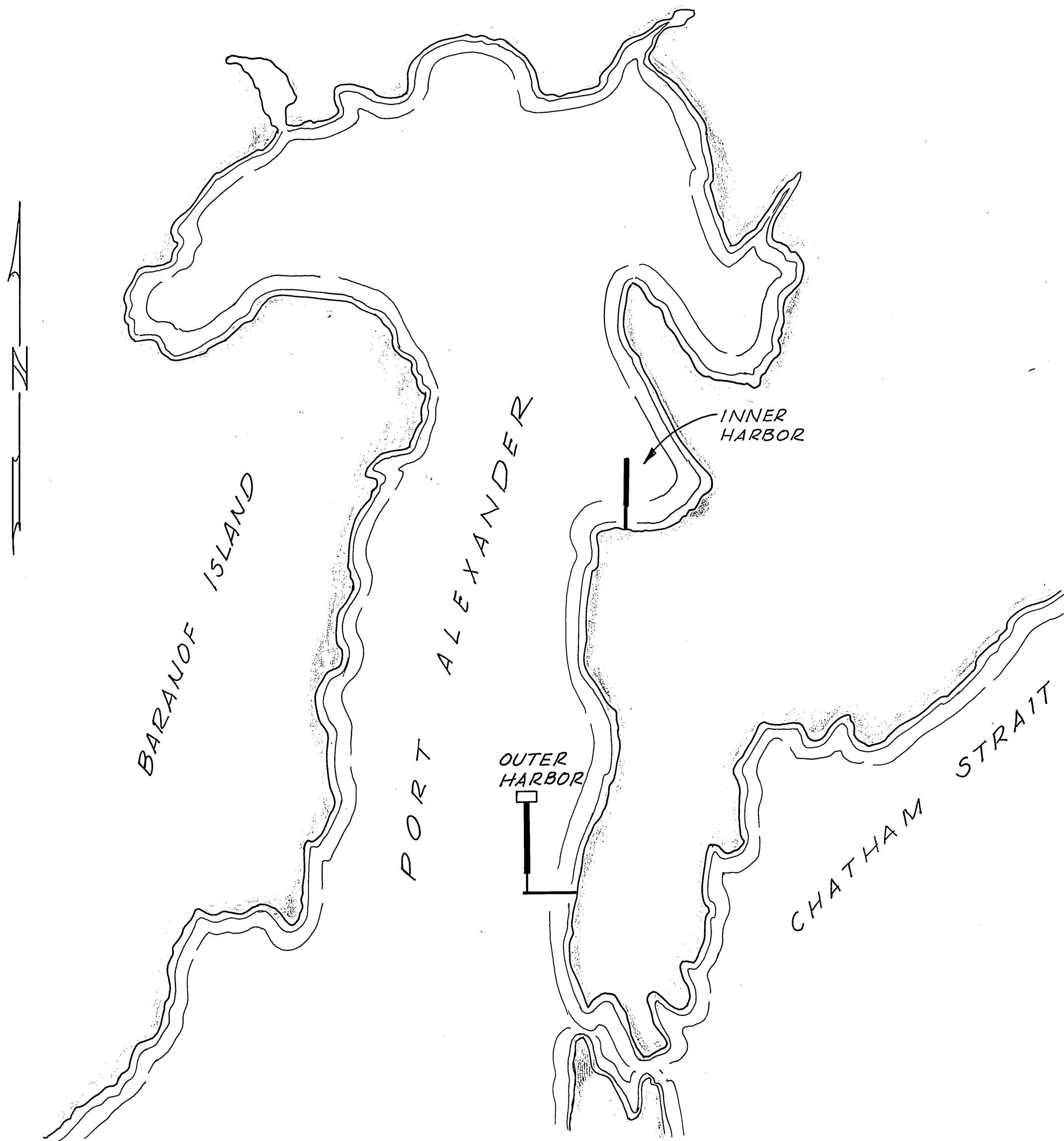


PORT ALEXANDER FLOAT FACILITIES

PROJECT NO. 3-72136



WORK SUMMARY

Major units of this project consist of removal and disposal of existing facilities including 5815SF of floats and 12 float piles with crossies; construction and installation of 5845SF of timber & foam floats, furnishing & driving 830LF of timber float & fender piles, and construction of a 48' x 18' gridiron structure; replacement of decking, handrails & handrail posts on existing 6' x 188' approach structure.

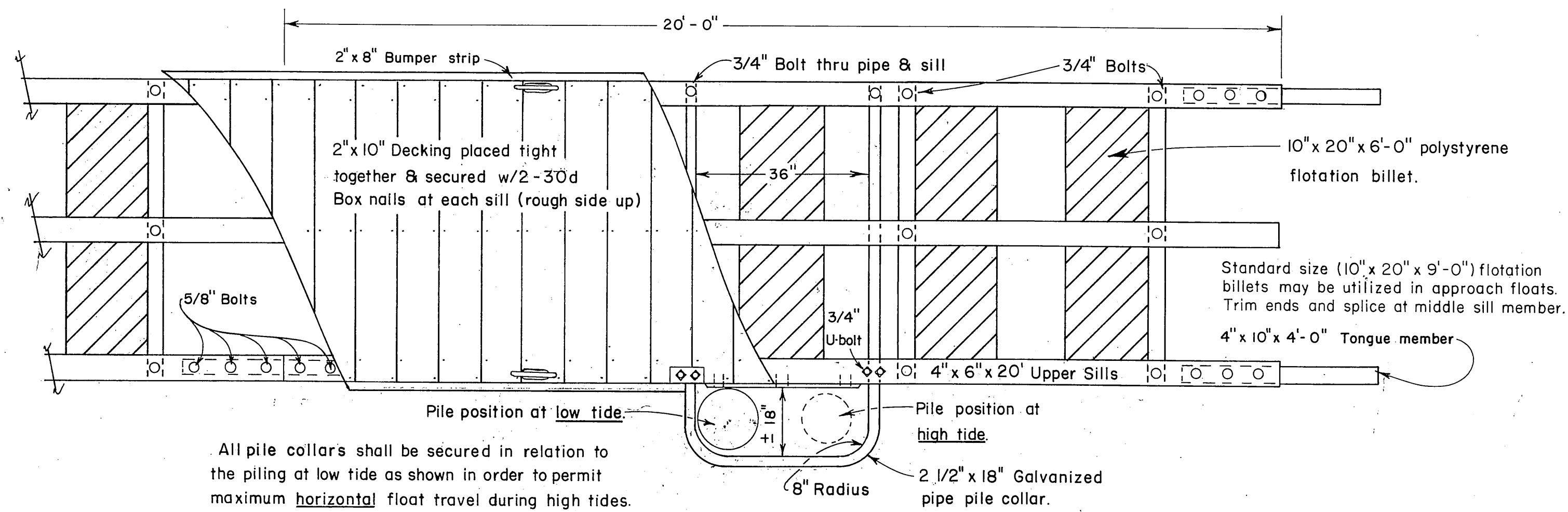
AS - BUILT

| INDEX TO SHEETS |                                                |  |  |
|-----------------|------------------------------------------------|--|--|
| 1               | TITLE & LOCATION                               |  |  |
| 2               | HARBOR LAYOUTS, GRID LAYOUT, STRINGER DIAGRAMS |  |  |
| 3               | TYPICAL 6' SECTIONAL FLOAT                     |  |  |
| 4               | TYPICAL FLOATS                                 |  |  |

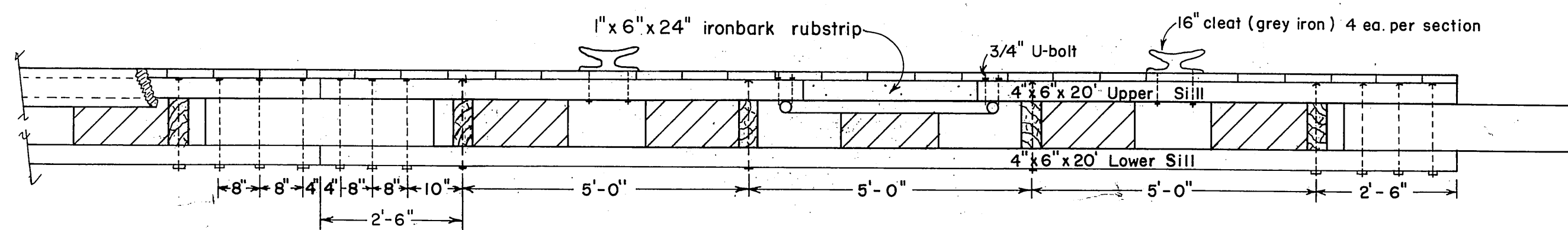




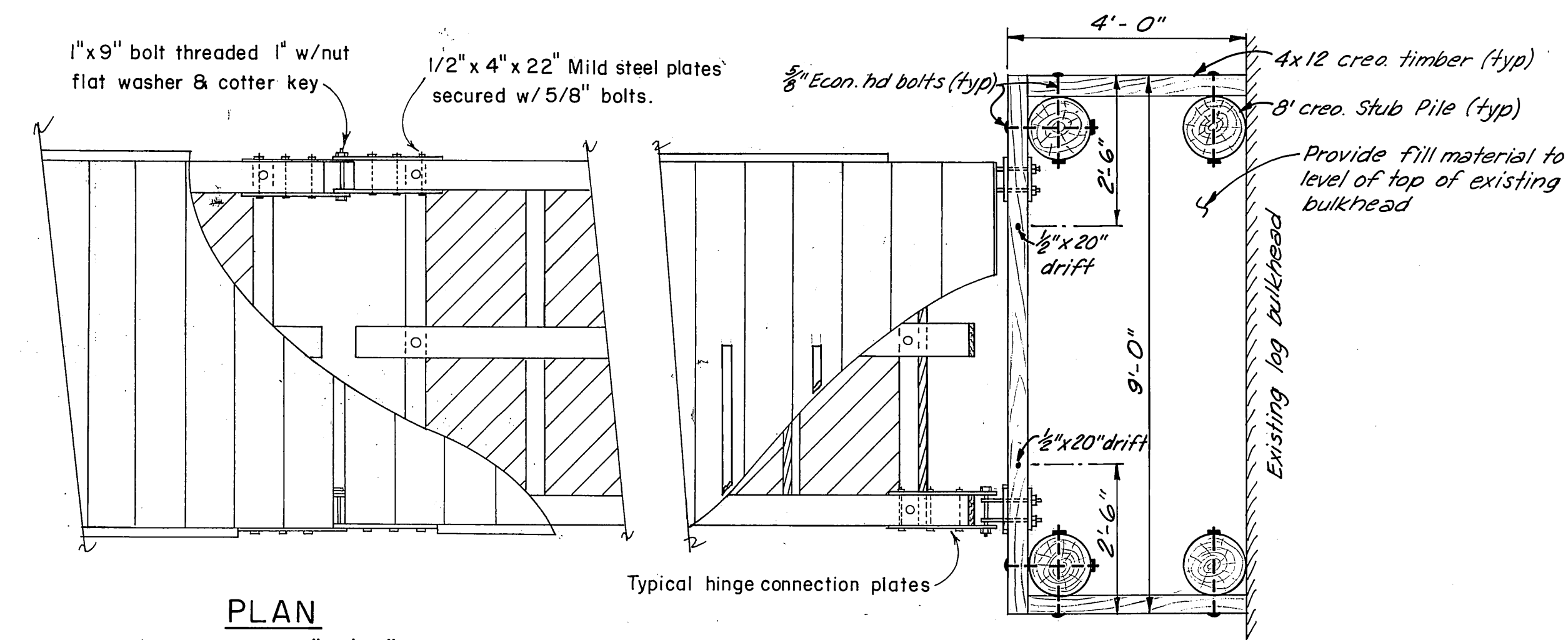




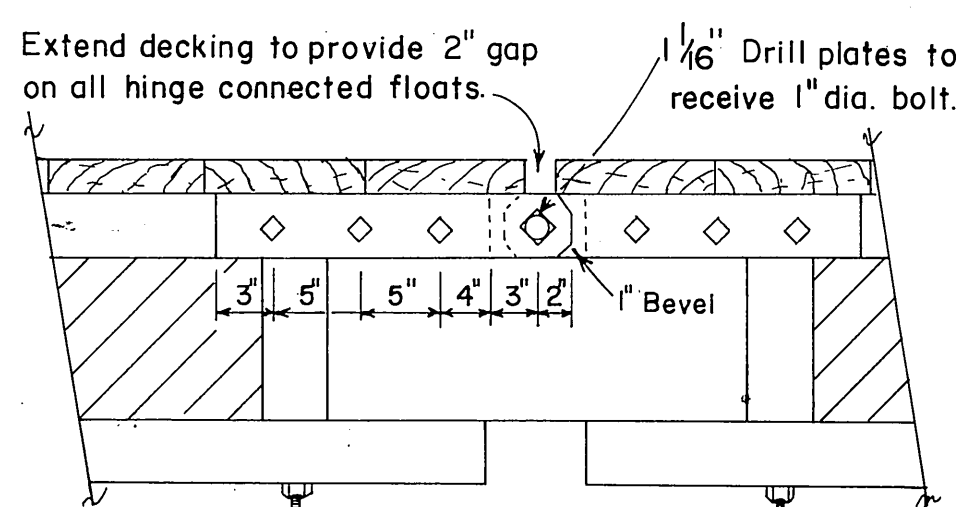
PLAN (coupled sections)



ELEVATION (coupled sections)  
Scale 1/2" to 1'-0"



PLAN  
Scale 1/2" = 1'-0"

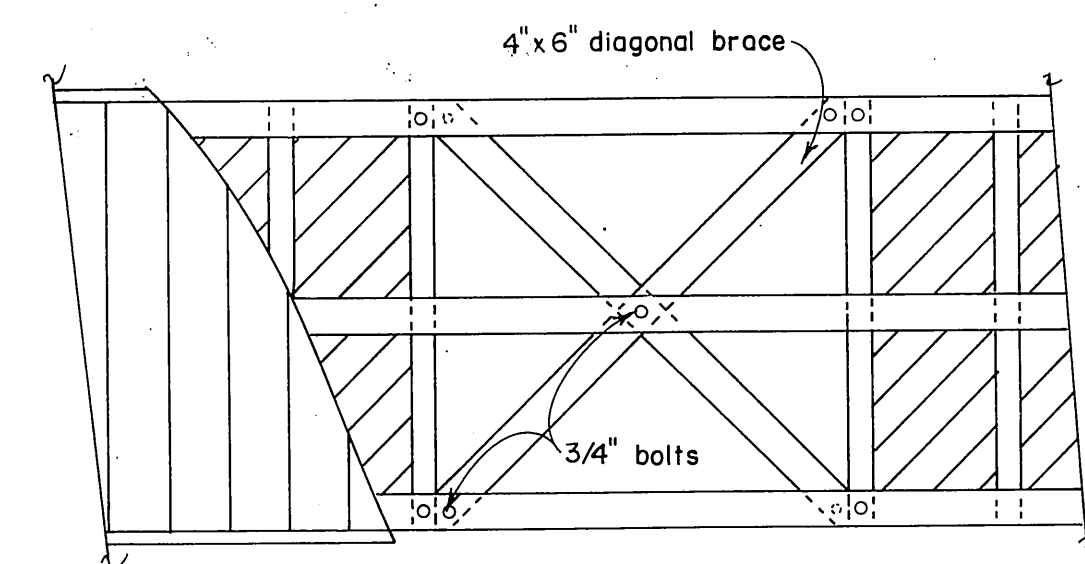


Scale 1" = 1'-0"

ELEVATION

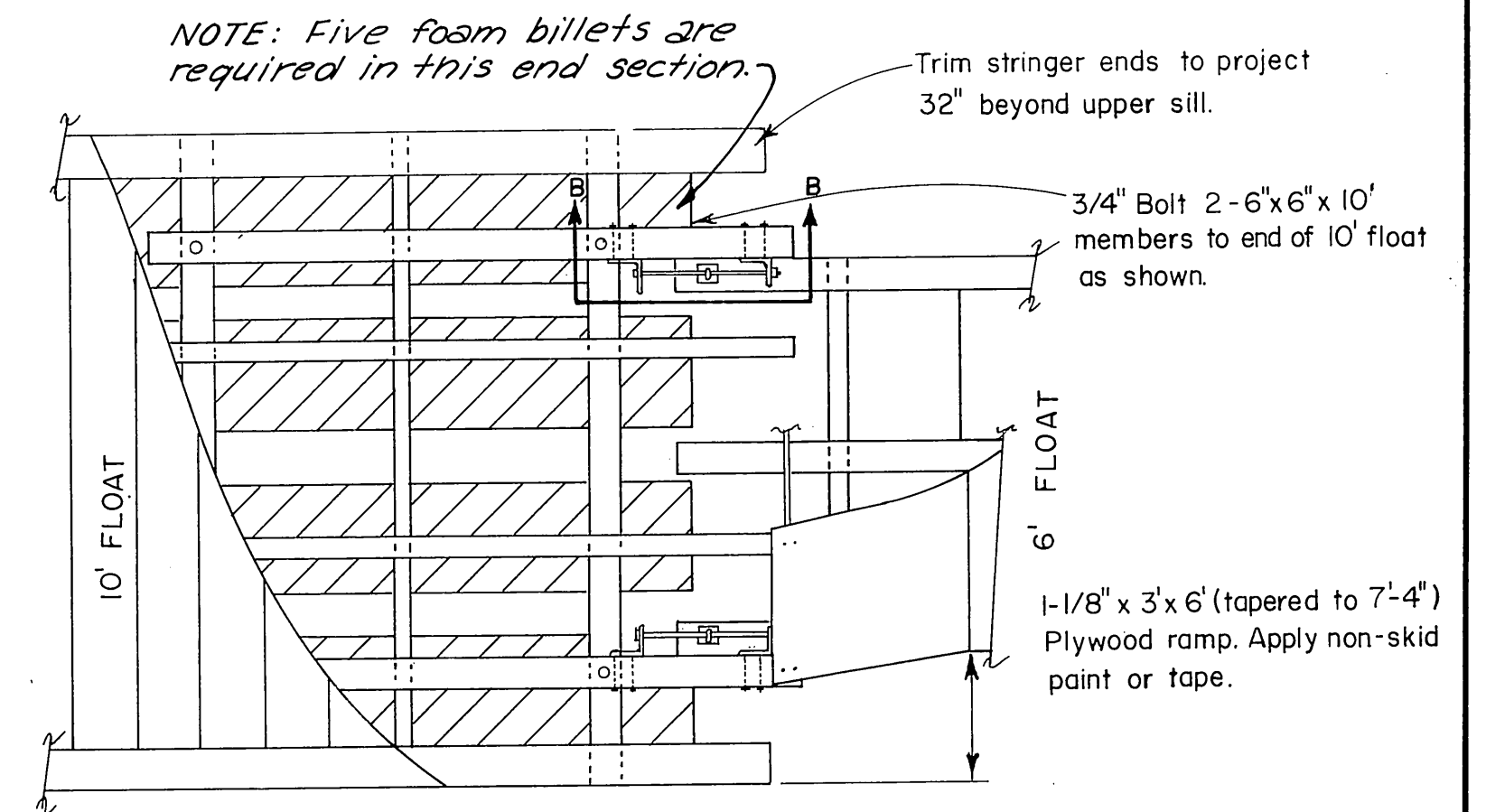
HINGE CONNECTION DETAILS

Diagonal bracing shall be placed on each of the float sections that do not incorporate pile collars. Bracing members to be field cut to abut float cross members as shown.



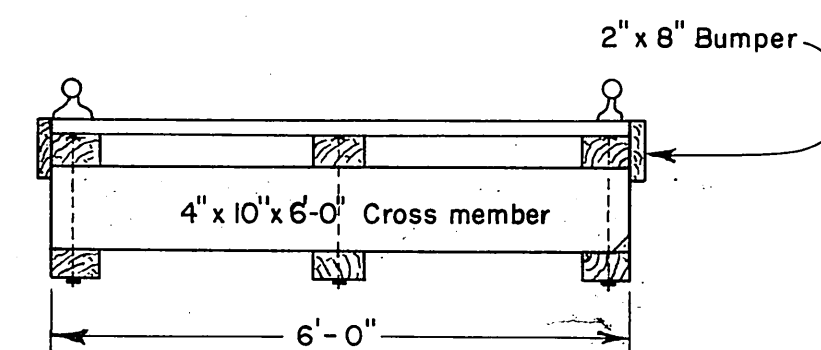
DIAGONAL BRACE DETAIL  
3/8" = 1'-0"

NOTE: All bolt holes facing decking shall be countersunk 1/4" & of such diameter as to accommodate the appropriate size economy bolt head.

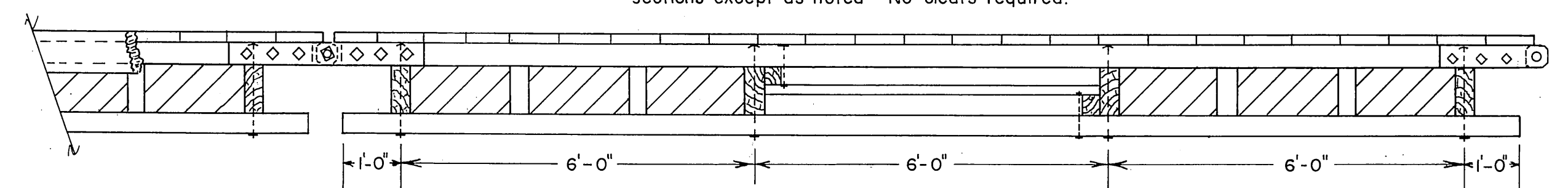


DETAIL A (Travelling Hinge Connection)  
For connecting 6' float to typical 10' float  
Scale 3/8" = 1'-0"

See Detail B for Elevation view.

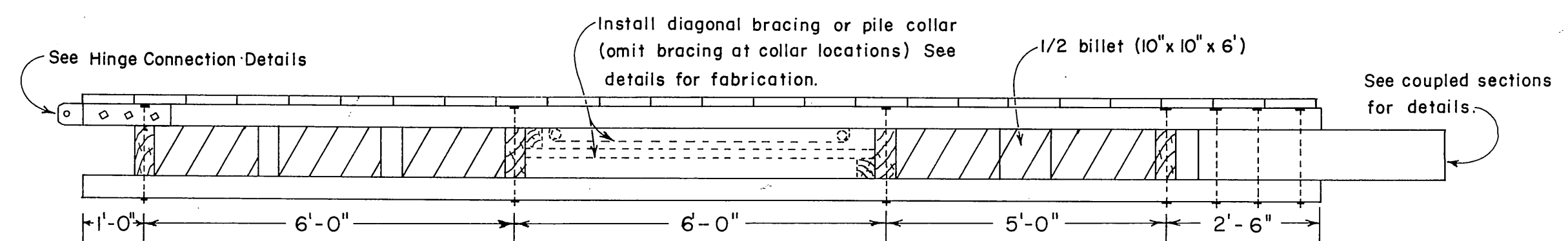


TYPICAL SECTION  
Scale 1/2" to 1'-0"

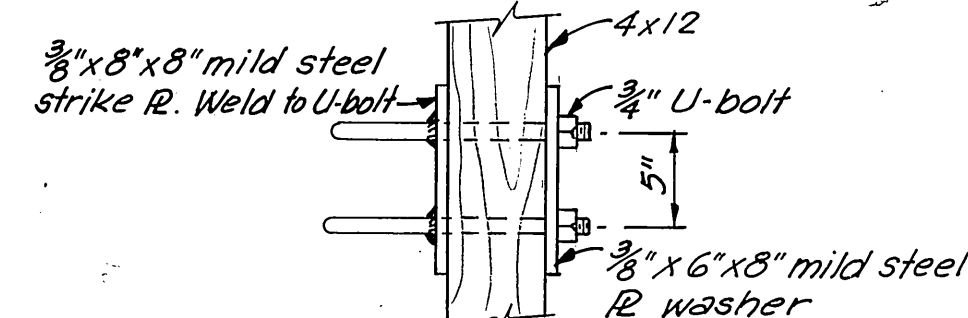


ELEVATION (hinged sections)  
Scale 1/2" to 1'-0"

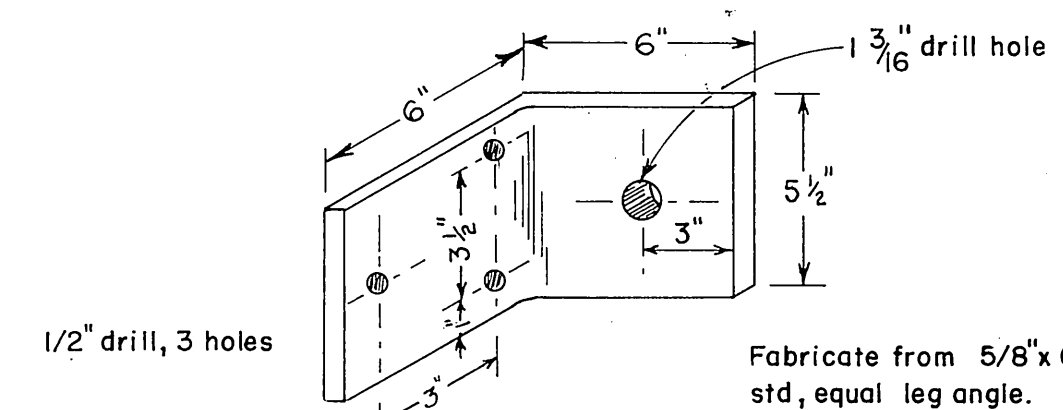
All fastenings, materials & dimensions on all hinged float sections shall conform to those of the coupled sections except as noted - No cleats required.



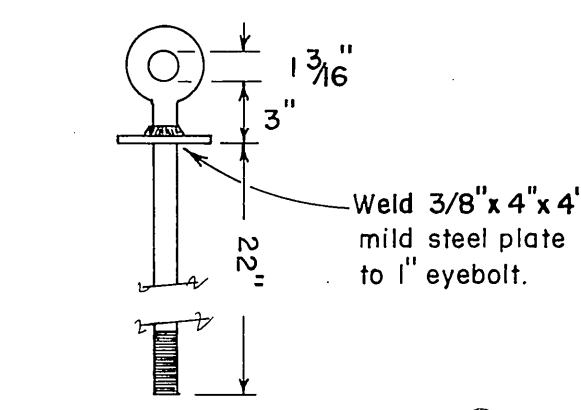
ELEVATION (Alternately hinged ~ coupled section)  
Scale 1/2" = 1'-0"



U-BOLT DETAIL  
Scale 1 1/2" = 1'-0"



ANGLE CLIP DETAIL  
(Travelling Connection Only)  
1" = 5"



EYEBOLT DETAIL  
1" = 1'-6"

#### NOTES

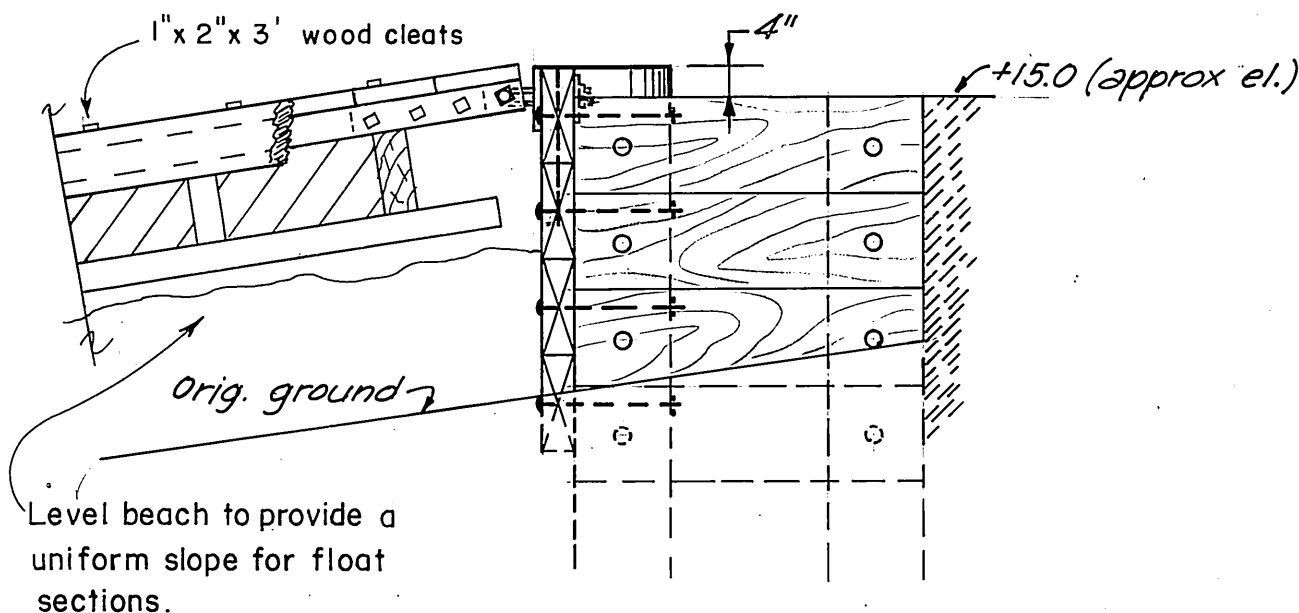
All bolt holes to be drilled (& countersunk where required) prior to creosote pressure treatment except collars, cleats & connections. All timber material with exception of bumpers & decking to be construction grade Douglas Fir creosote treated to 12 lb. ret. (full cell). Sills & diagonal bracing to be rough. Cross members \*SIE. Decking & bumper to be const. grade Doug. fir SIS 8 lb. creosote retention. (empty cell)

Floates are to be constructed in 20' sections & coupled together as shown.

Hinged sections are to be used wherever floats go aground, or as indicated.

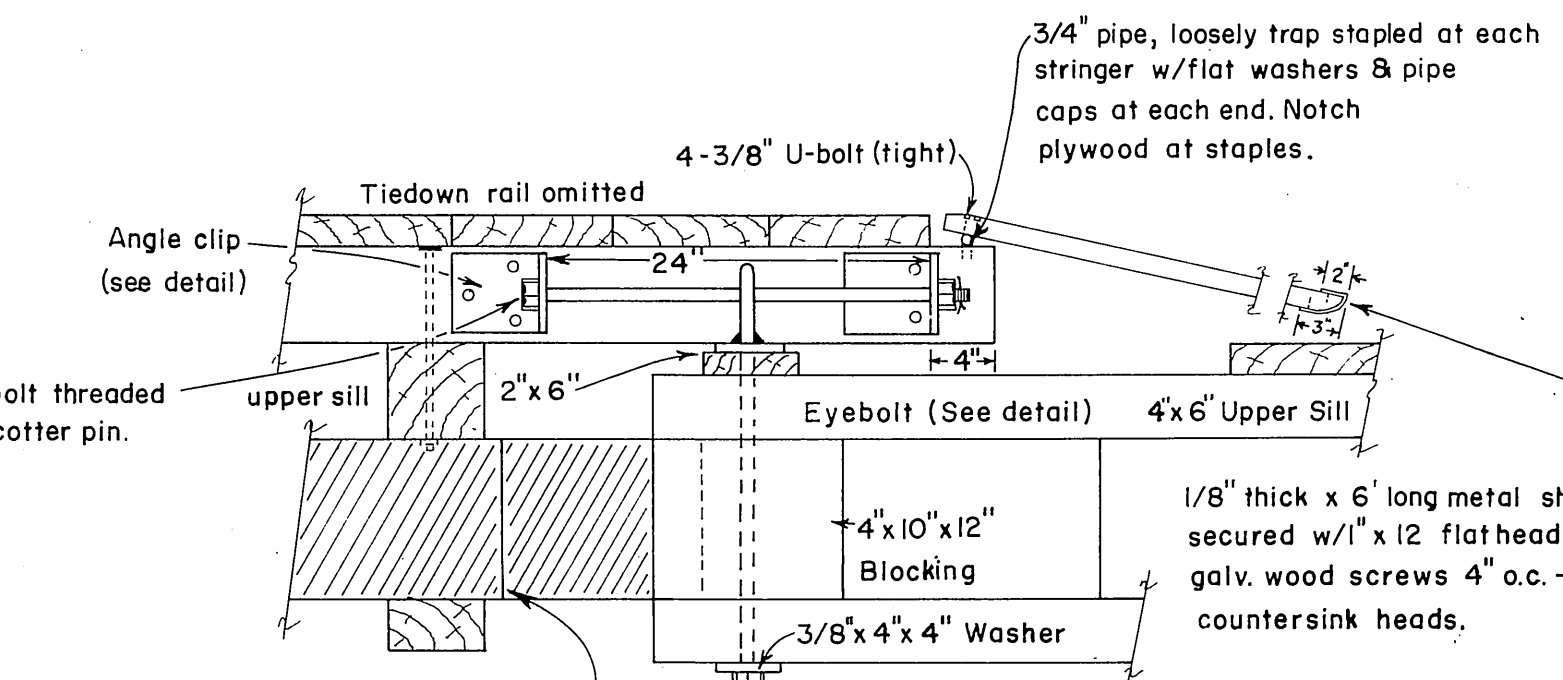
All bolts to be 3/4" unless otherwise specified.

All hardware to be hot dipped 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 to be treated with hot creosote oil. All pressure treated creosote material shall be cut to size prior to treatment except diagonal braces. \*SIE 1/8" off nominal width.



ELEVATION

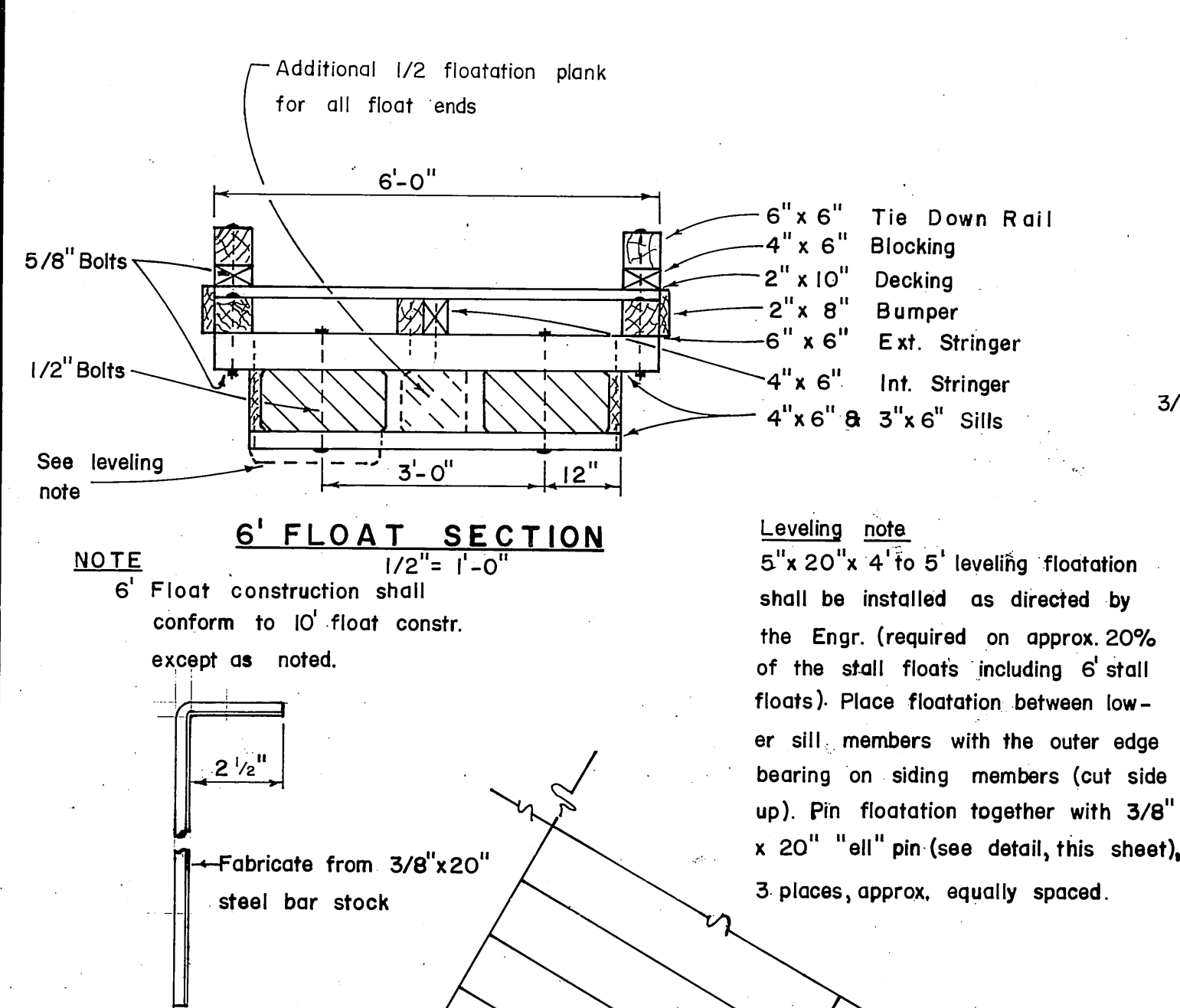
SHORESIDE CONNECTION DETAIL  
& TIMBER ABUTMENT



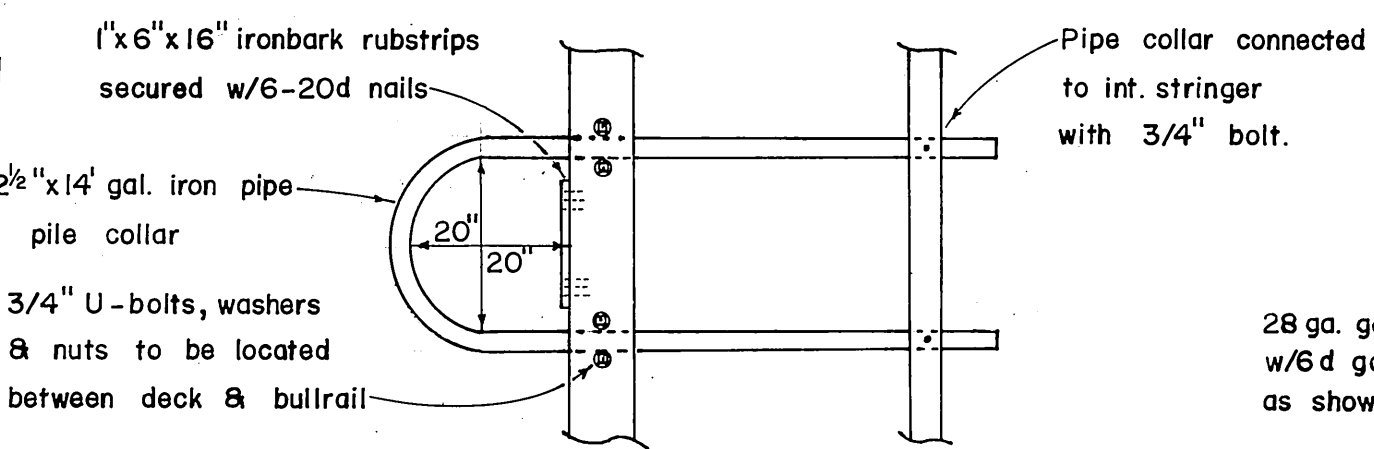
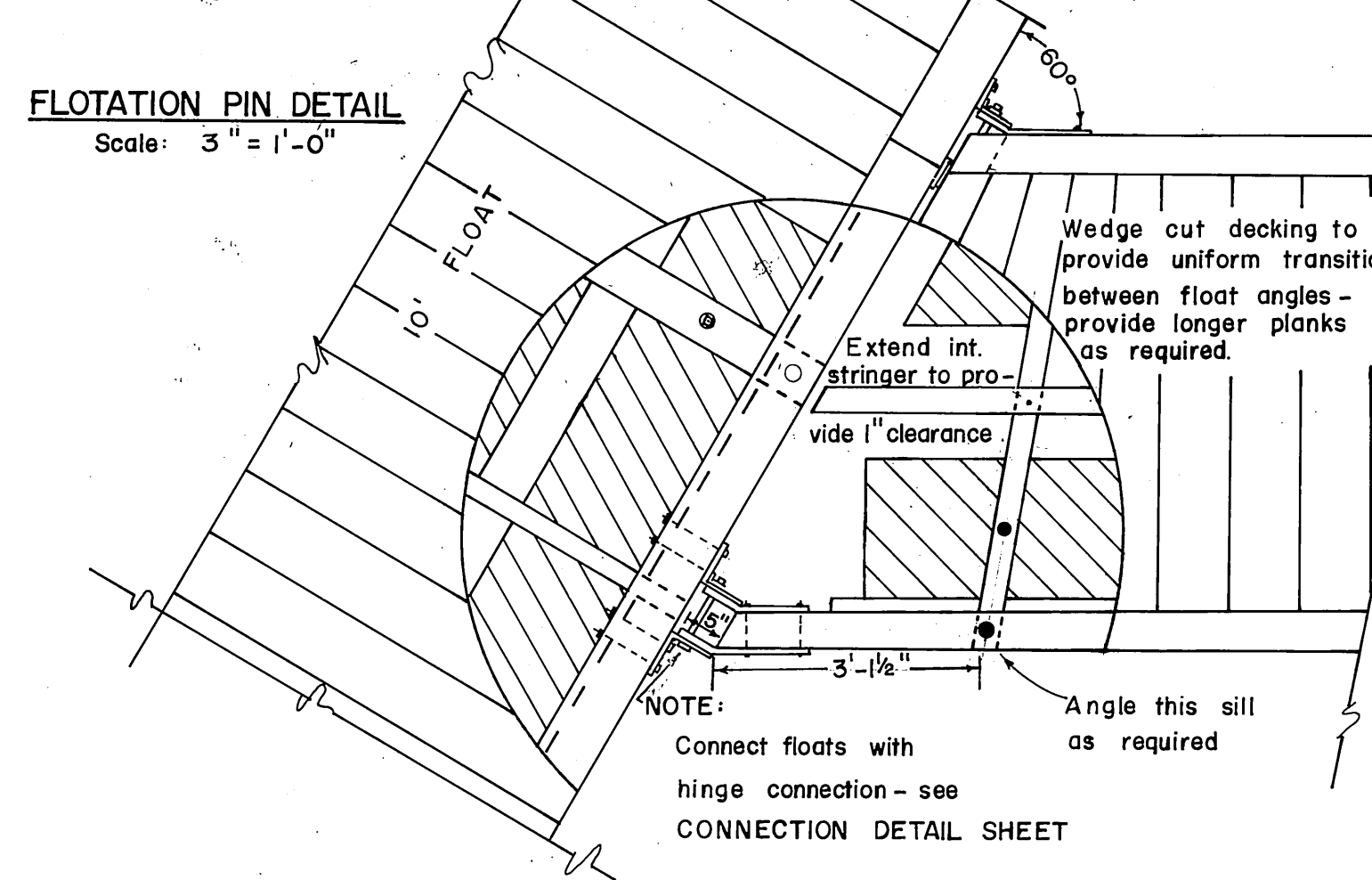
DETAIL B - Travelling Hinge (half tide position)  
Scale - 1" = 1'-0"

|                                                                                |                               |
|--------------------------------------------------------------------------------|-------------------------------|
| STATE OF ALASKA<br>DEPARTMENT OF PUBLIC WORKS<br>DIVISION OF WATER AND HARBORS |                               |
| TYPICAL 6' SECTIONAL FLOAT                                                     |                               |
| SCALE As shown                                                                 | APPROVED Don Statter DIRECTOR |
| DATE JULY 1997                                                                 |                               |
| PROJ. NO. 3-72136                                                              | CHECKED BY D.S.               |
| DRAWN BY C.D.                                                                  |                               |

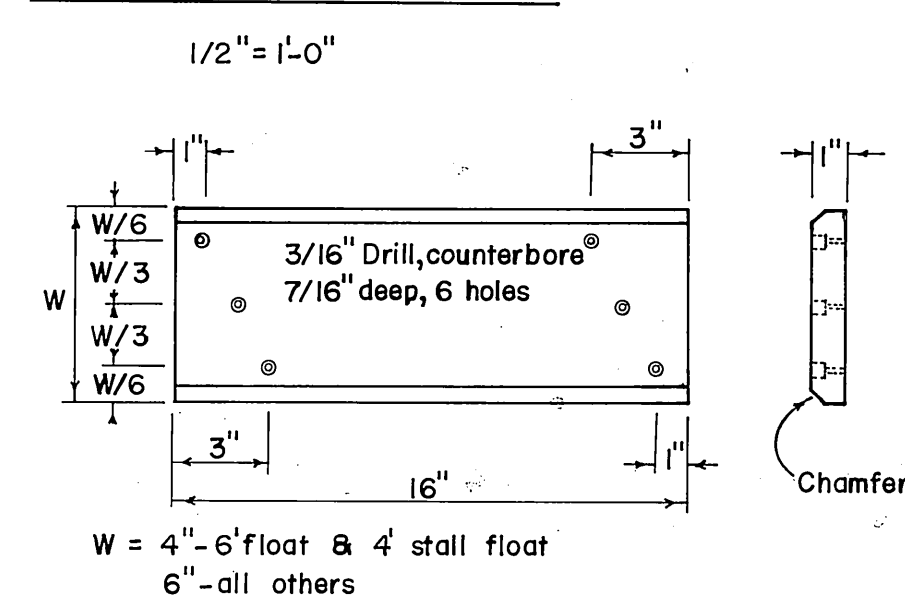




**FLOTATION PIN DETAIL**  
Scale: 3" = 1'-0"

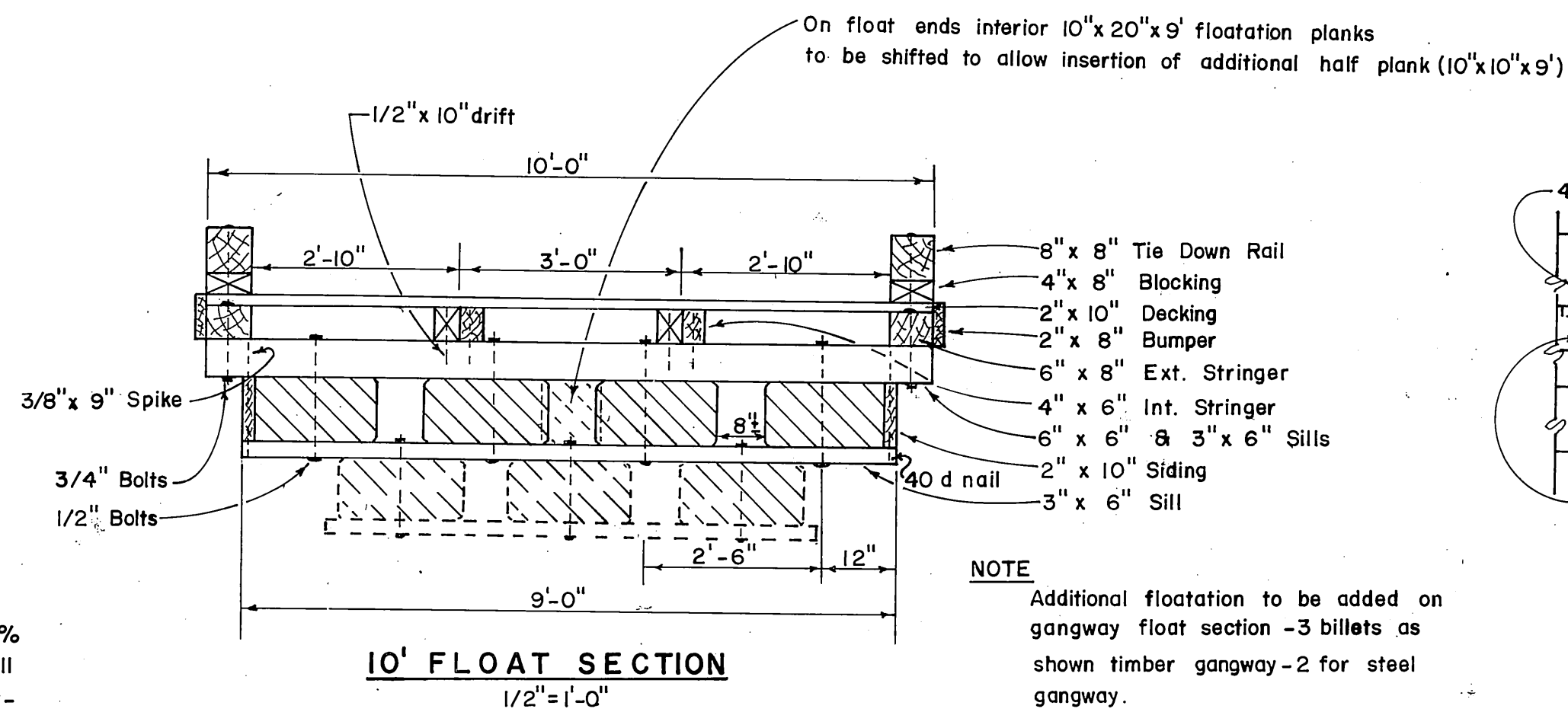


**PIPE PILE COLLAR DETAIL**  
1/2" = 1'-0"

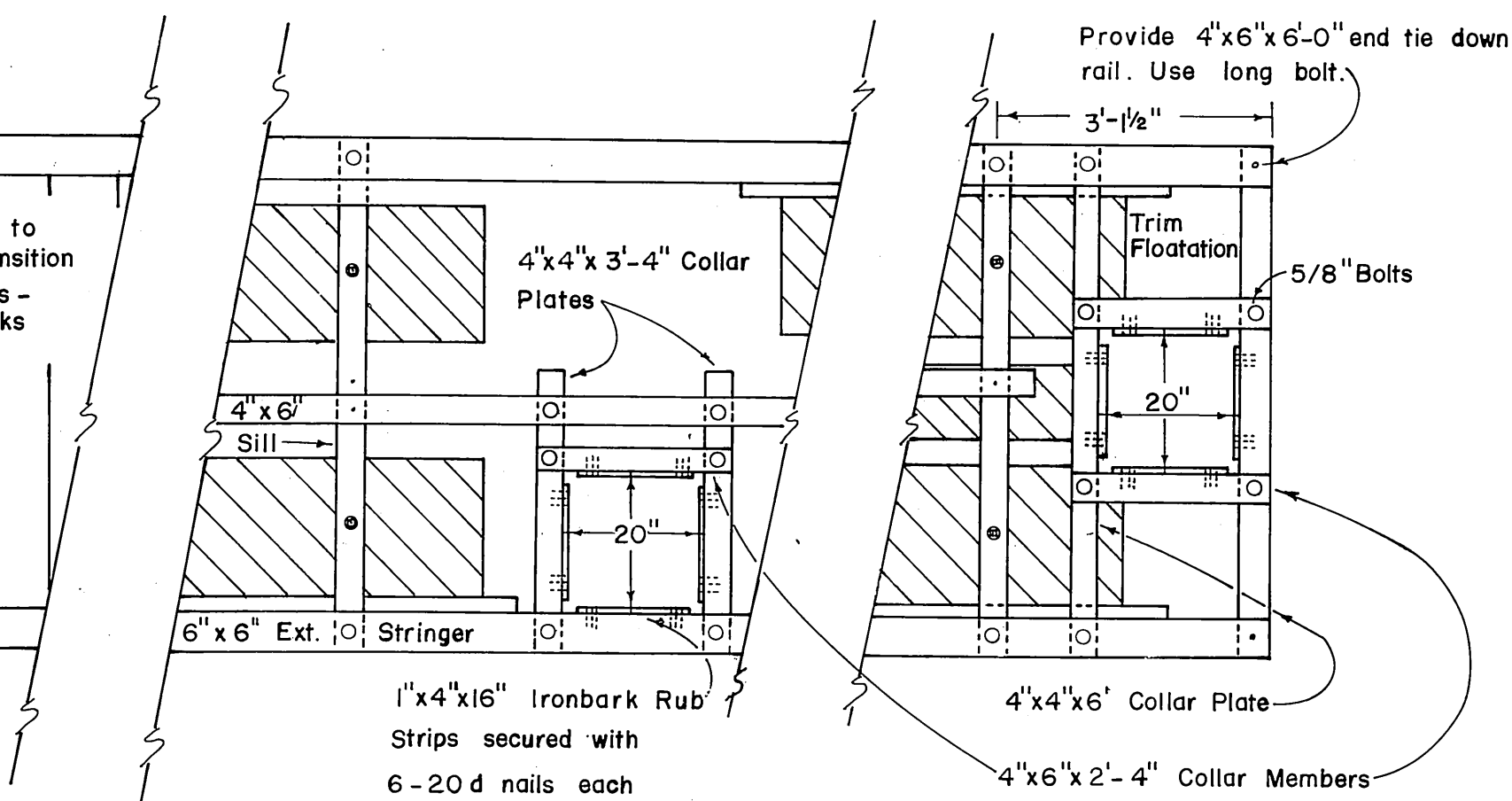


**IRONBARK RUB STRIP**  
1" = 6"

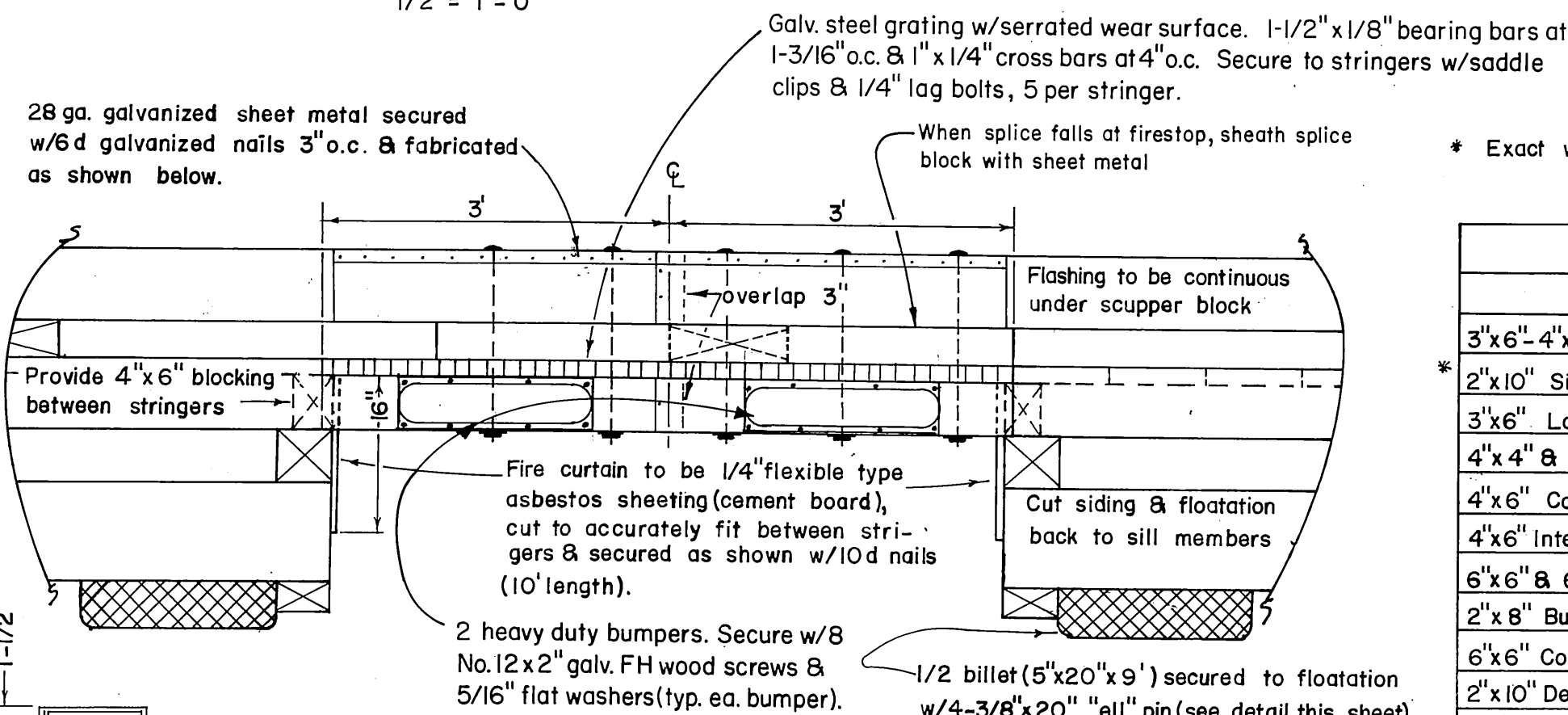
**Leveling note**  
5' x 20' x 4' to 5' leveling floatation shall be installed as directed by the Engr. (required on approx. 20% of the stall floats including 6' stall floats). Place floatation between lower sill members with the outer edge bearing on siding members (cut side up). Pin floatation together with 3/8" x 20" "ell" pin (see detail, this sheet), 3 places, approx. equally spaced.



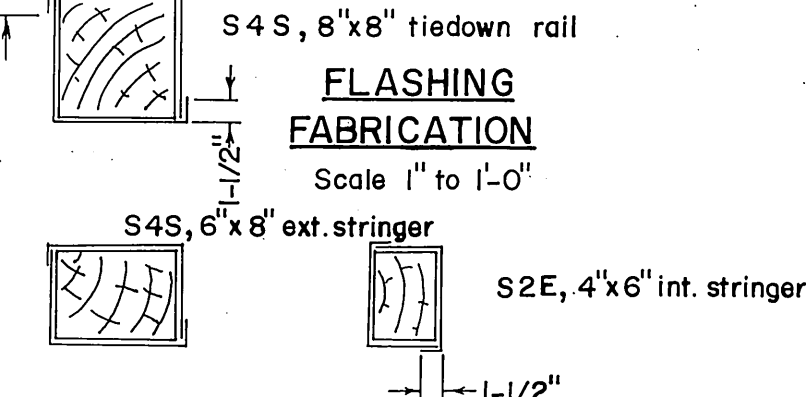
**10' FLOAT SECTION**  
1/2" = 1'-0"



**CONNECTION & COLLAR DETAIL**  
6' STALL FLOAT  
1/2" = 1'-0"

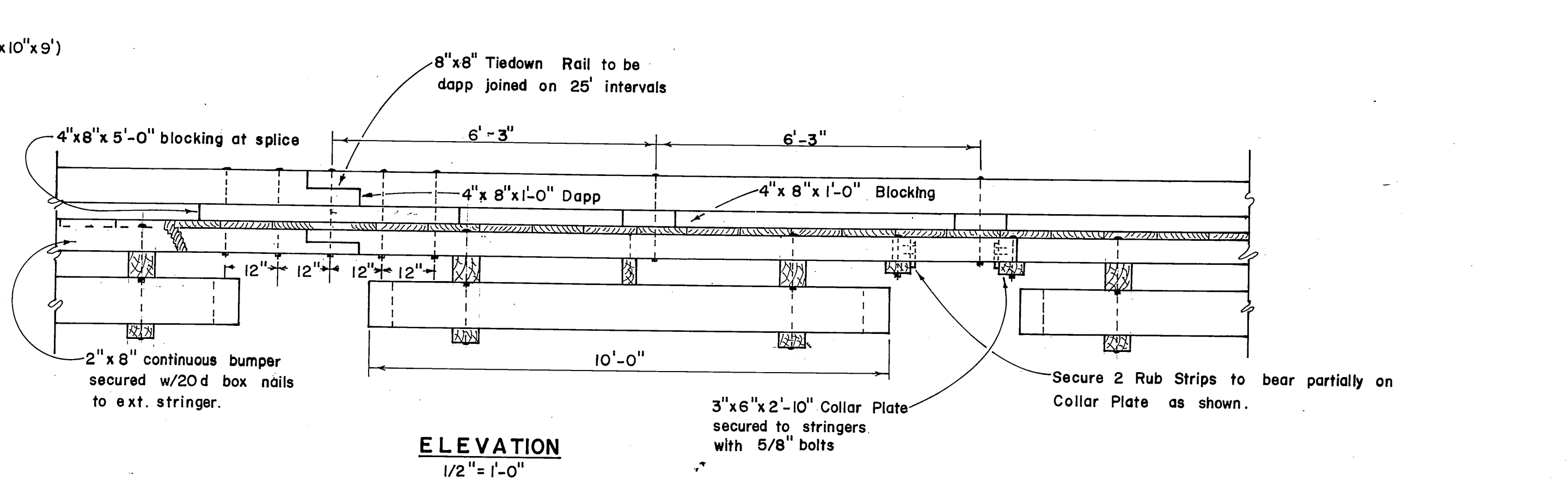


**FLASHING FABRICATION**  
Scale 1" to 1'-0"

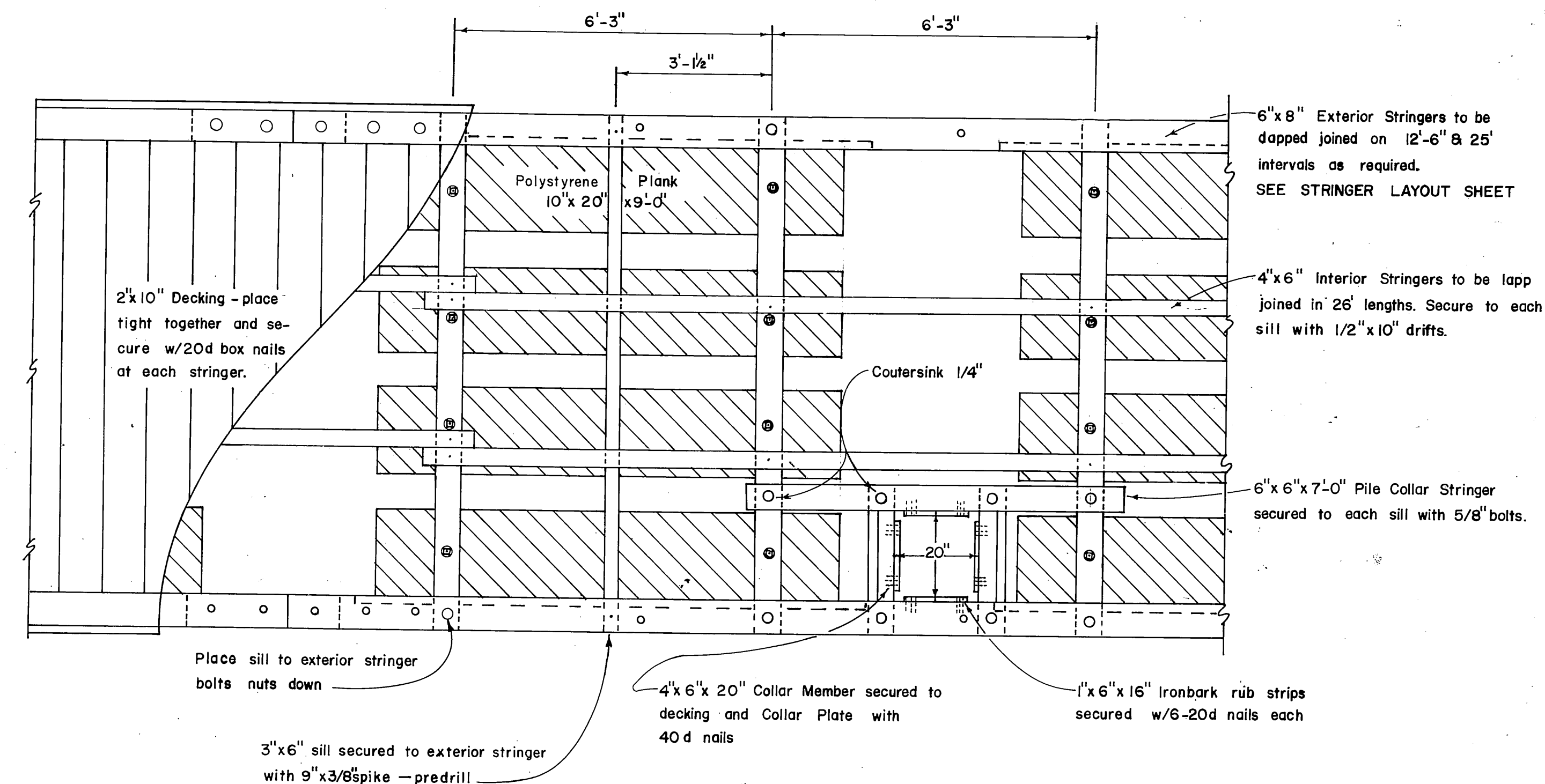


**FIRE STOP DETAILS**  
Scale 3/4" to 1'-0"

**NOTES:**  
Secure grating to stringers with saddle clips & 1/4" lag bolts - 5 at each stringer per 6' width



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



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

\* Exact width to conform to width of floatation material

| MATERIALS                            |                |              |
|--------------------------------------|----------------|--------------|
| ITEM                                 | DRESSING       | TREATMENT    |
| 3' x 6'-4' x 6" & 6' x 6" upper sill | S-1-E 1/8" off | 12 lbs. ret. |
| 2' x 10" Siding                      | 2' x 10 1/2"   | " "          |
| 3' x 6" Lower Sill                   | Rough          | " "          |
| 4' x 4" & 3' x 6" Collar Plates      | Rough          | 8 lbs. ret.  |
| 4' x 6" Collar Members               | S-2-E          | " "          |
| 4' x 6" Interior Stringers           | " "            | " "          |
| 6' x 6" & 6' x 8" Ext. Stringers     | S-4-S          | " "          |
| 2' x 8" Bumpers                      | " "            | " "          |
| 6' x 6" Collar Stringers             | " "            | " "          |
| 2' x 10" Decking                     | S-1-S-2-E      | " "          |
| 4' x 6" & 4' x 8" Blocking           | S-4-S          | " "          |
| 6' x 6" & 8' x 8" Rail               | " "            | " "          |

All material to be construction grade Douglas Fir  
All piling will be Class A creosoted to 12 lbs. retention  
All 12 lb. ret. creosoted treatment to be Full Cell  
All 8 " " " " " Empty "

**PRE-DRILLED BOLT HOLES**

**COLLAR MEMBERS** - all holes  
**SILLS** - holes for floatation plank bolts  
**STRINGERS** - 1. holes for stringer to sill bolts

**TIE DOWN RAIL** - all holes  
**PILE COLLAR STRINGER - 10' FLOAT** - all holes

**FIELD DRILLED BOLT HOLES**  
**SILLS** - 1. holes for stringer to sill bolts  
2. pile collar stringer to sill

**PILE COLLAR INT. STRINGER - 6' FLOAT** - all holes  
**RAIL BLOCKING** - all holes  
**COLLAR PLATES** - all holes  
**EXT. STRINGER** - 1. holes for tiedown rail bolts  
2. " " pile collar plate bolt

**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 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 all float ends except under gangway. All bolt heads facing decking shall be countersunk 1/4" previous to treatment. Field drill all drift bolt 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 members).

|                                                                                |                                              |
|--------------------------------------------------------------------------------|----------------------------------------------|
| STATE OF ALASKA<br>DEPARTMENT OF PUBLIC WORKS<br>DIVISION OF WATER AND HARBORS |                                              |
| TYPICAL                                                                        | FLOATS                                       |
| SCALE - As Shown                                                               | APPROVED DON STATTER DIRECTOR                |
| DATE - April 1968                                                              | DESIGNED BY RPH-DS DRAWN BY MH CHECKED BY DS |
| PROJ. NO. 3-72196                                                              |                                              |