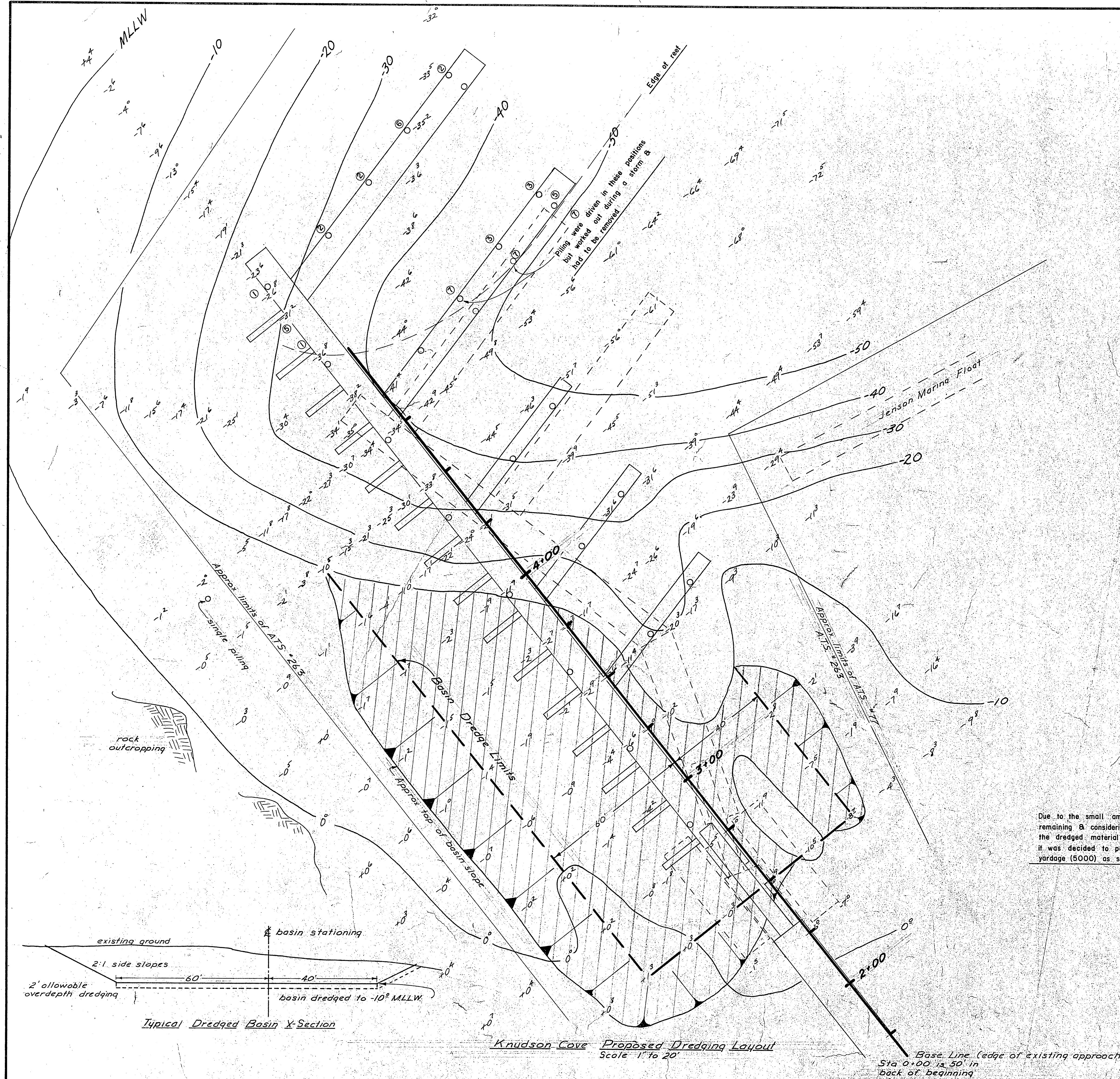




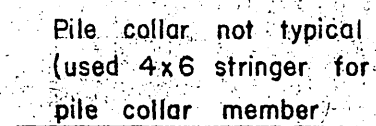
Due to the small amounts & irregular portions of overdepth remaining & considering the contractors diligence in removing the dredged material under the difficult conditions encountered, it was decided to pay the contractor for the total estimated yardage (5000) as set forth in the bid schedule.

Base Line (edge of existing approach)
Sta 0+00 is 50' in back of beginning of approach

Knudson Cove Proposed Dredging Layout
Scale 1" to 20'

STATE OF ALASKA DEPARTMENT OF PUBLIC WORKS DIVISION OF WATER AND HARBORS	
KNUDSON COVE DREDGING LAYOUT	
SCALE as shown	APPROVED DON STATTER DIRECTOR
DATE Mar. 1967	
PROJ. NO. 5-67/17	
SURVEYED BY	DRAWN BY BZ CHECKED BY

Position stall floats at sill locations as indicated.



Sta 2+50

3. Provide dapp joined T.D.K. across float ends.

Two detailed technical drawings of boat hull-to-deck transitions, showing the connection between the hull structure and the deck using bolts, washers, and cotter keys.

Left Drawing (Transition with 6" Floor):

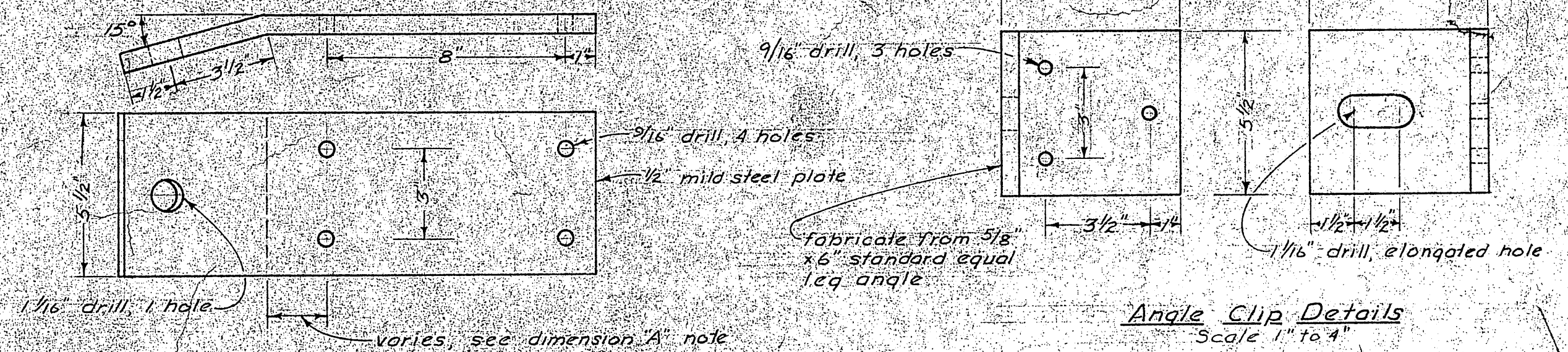
- Top Hull Structure:** Labeled with $\frac{1}{2} \times 9 \frac{1}{2}$ bolts.
- Deck Connection:** Uses $\frac{1}{2} \times 7 \frac{1}{2}$ bolts and $\frac{3}{4}$ " flat washers with cotter keys.
- Dimensions:** dimension "A" = $3 \frac{1}{2}$ ".
- Floor:** Labeled "6" Floor".
- Angle:** Angle cut decking to fit transition angle.

Right Drawing (Transition with 10" Floor):

- Top Hull Structure:** Labeled with $\frac{1}{2} \times 12 \frac{3}{4}$ bolt threaded $\frac{1}{4}$ " with 12 flat washers & cotter keys.
- Deck Connection:** Uses $\frac{1}{2} \times 9 \frac{1}{2}$ bolts.
- Dimensions:** dimension "A" = 4.0".
- Floor:** Labeled "10" Floor".

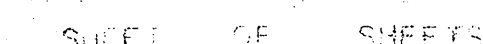
Note: all cotter keys to be $\frac{3}{16} \times \frac{1}{4}$ " drill holes located $\frac{1}{2}$ " from bolt end.

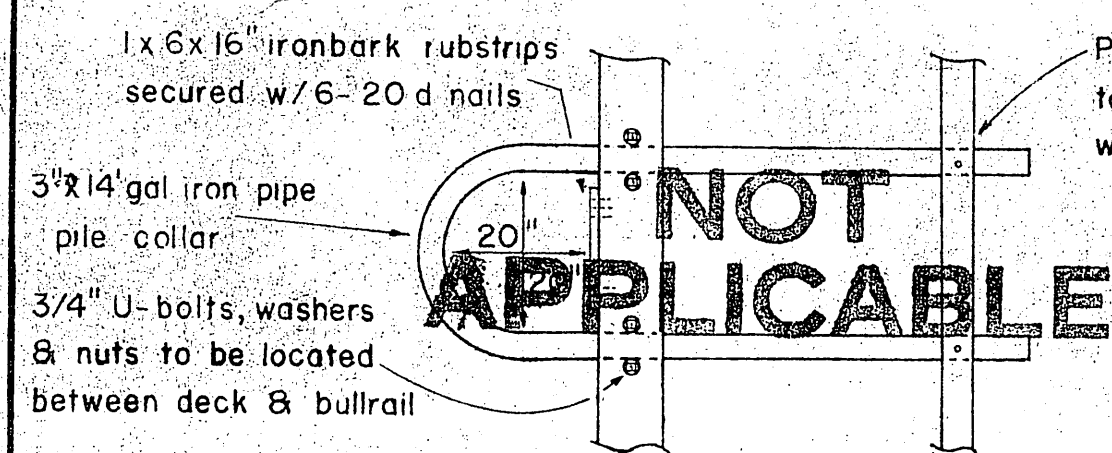
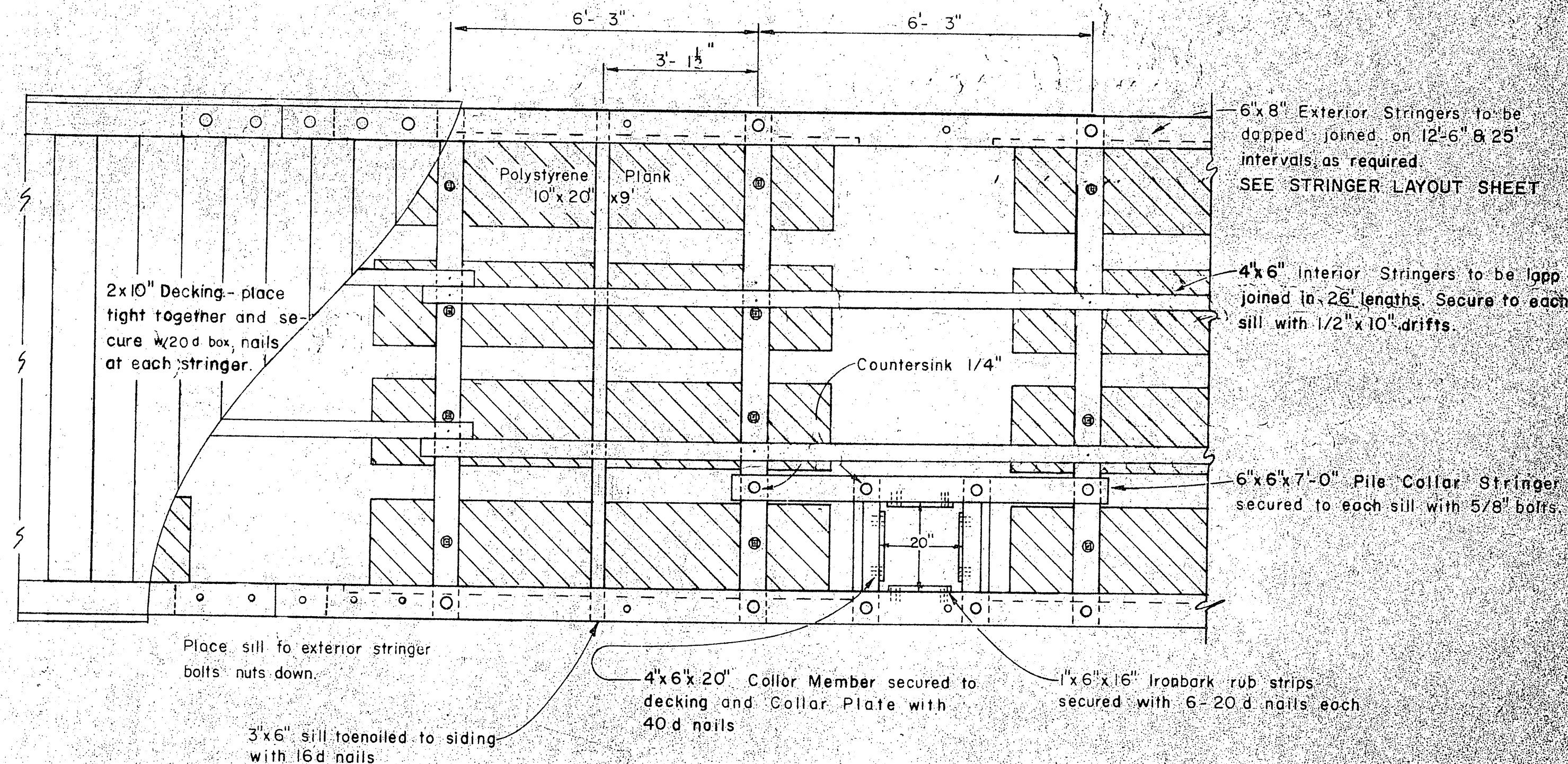
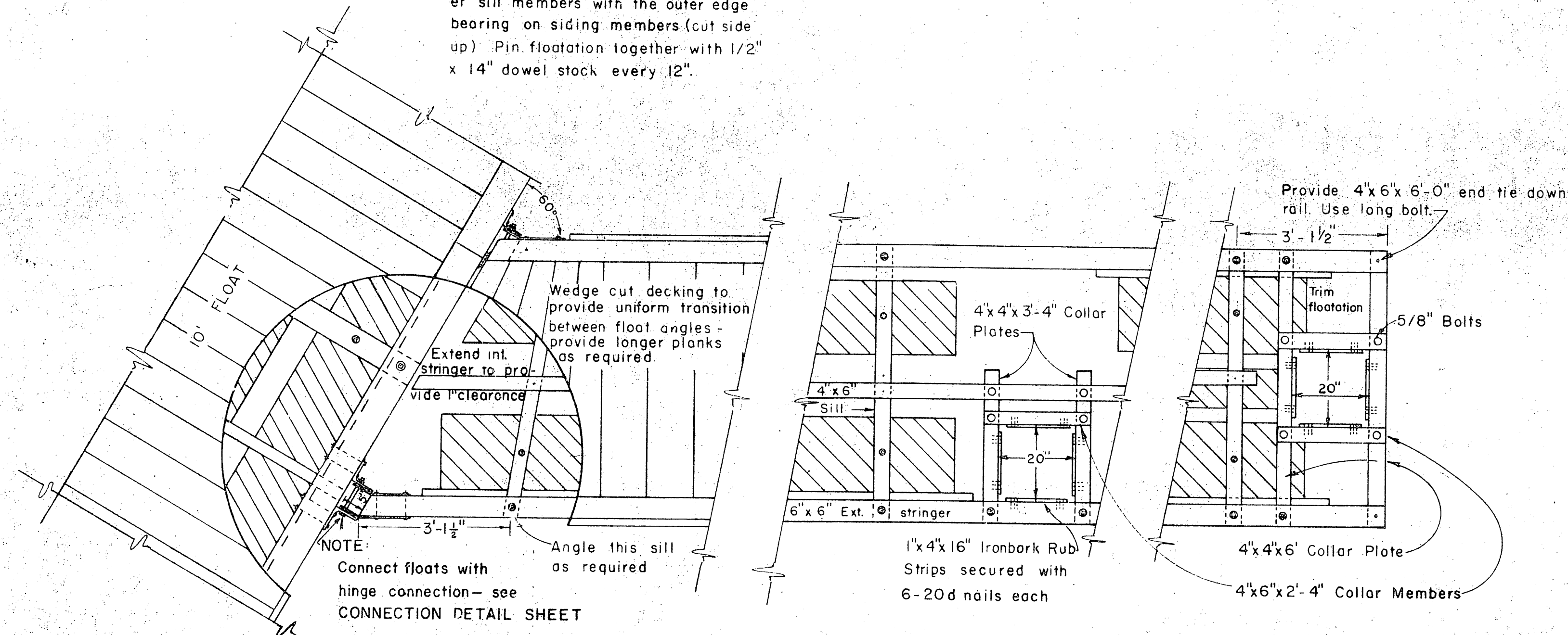
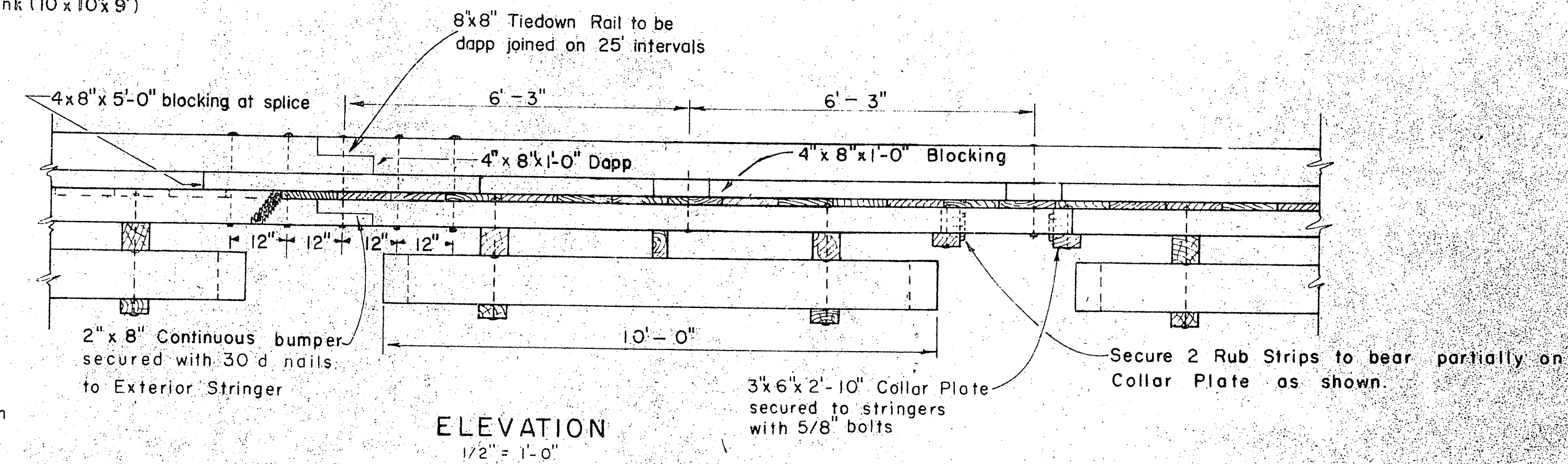
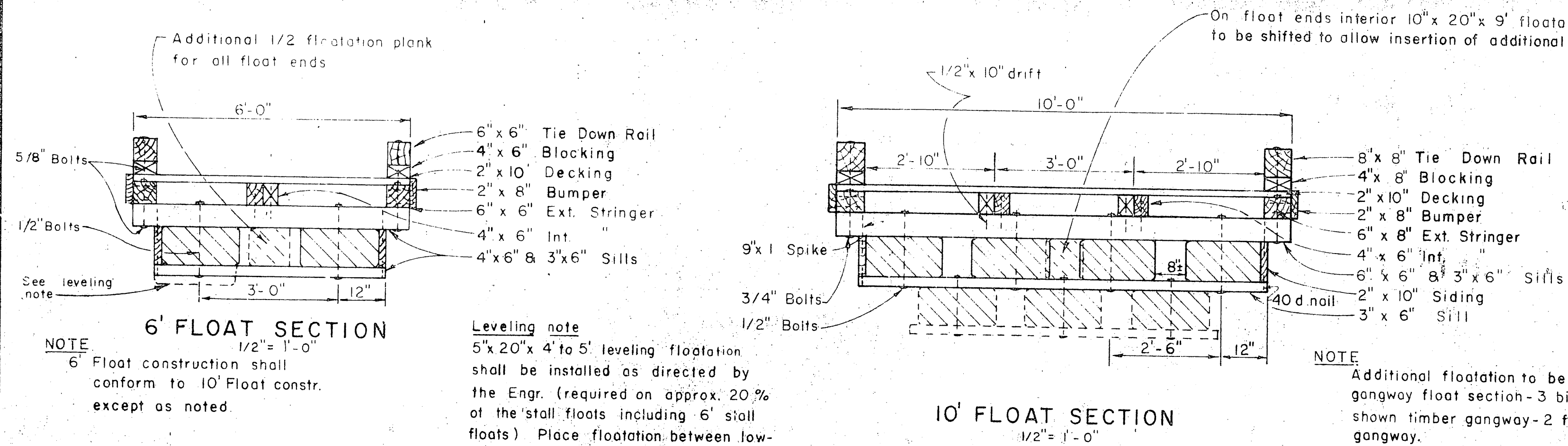
Detail "B"
10' finger float connection detail
Scale 1/2" to 1'-0"



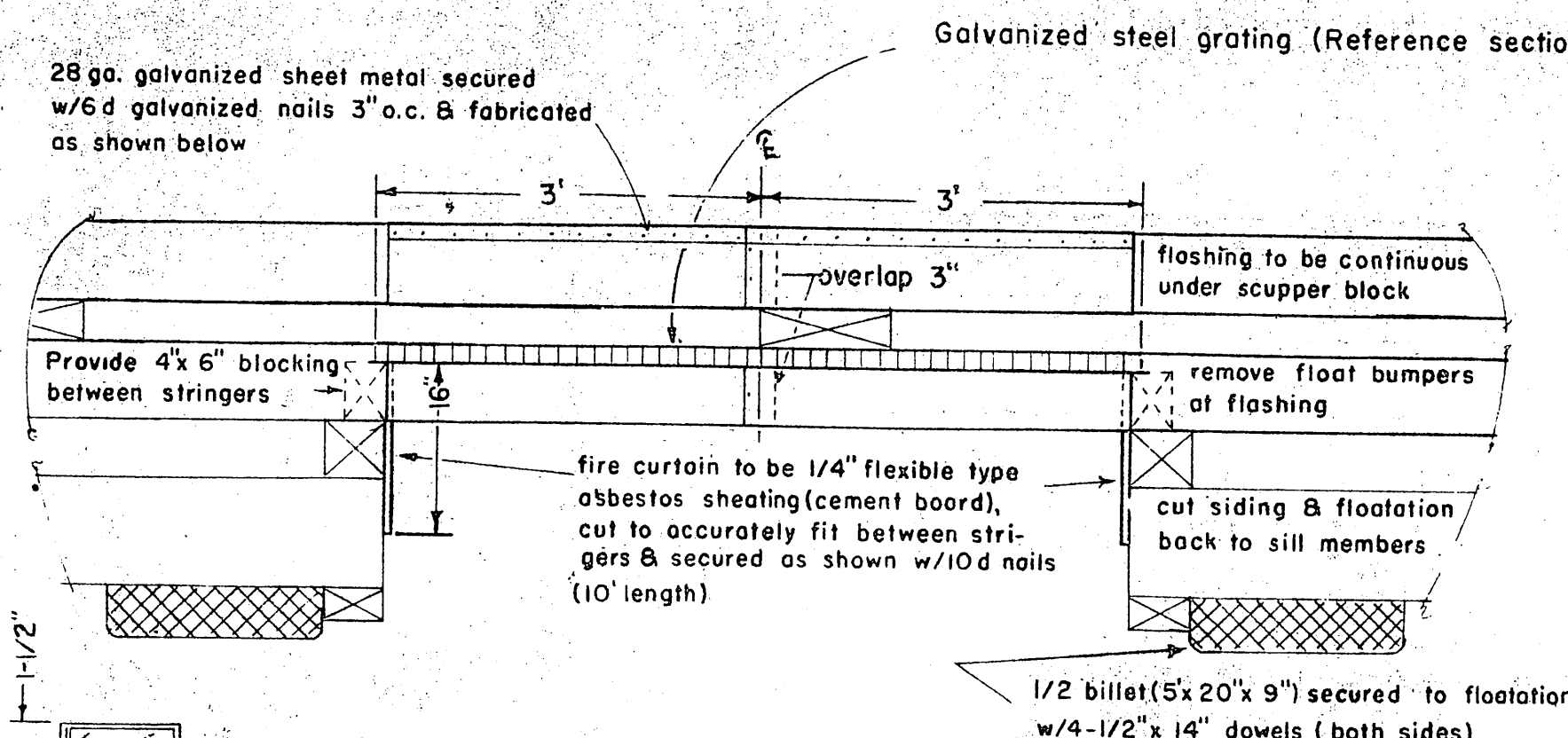
Angle Clip Details
Scale 1" to 4"

Sheet No. 3 of 8 sheets





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



- Exact width to conform to width of flotation material.

ITEM	DRESSING	TREATMENT
3x6 - 4x6 & 6x6 upper sill	S-1-E 1/8" off	12 lbs. ret.
2x10 Siding	2 x 10 1/2	" "
3x6 Lower Sill	Rough	" "
4x4 & 3x6 Collar Plates	Rough	8 lbs. ret.
4x6 Collar Members	S-2-E	" "
4x6 Interior Stringers	" "	" "
6x6 & 6x8 Ext Stringers	S-4-S	" "
6x6 Collar Stringers	" "	" "
2x10 Decking	S-1-S-2-E	" "
4x6 & 4x8 Blocking	S-4-S	" "
6x6 & 8x8 Rail	" "	" "
2x8 Bumper	" "	" "

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 Cell

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

PRE-DRILLED BOLT HOLES

COLLAR MEMBERS - all holes
SILLS - holes for flotation 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 tie down rail bolts
2. " " pile collar plate bolts

REVISIONS MARCH 1965

- Omit end plates.
- Clarified pre-drilling note.
- Change decking gap from 1/2" to 3/4"
- Change 2x10 rough siding members to 2x10 1/2 " actual size.
- Change 3x6, 4x6 and 6x6 upper sills from rough to S-1-E 1/8" off.
- Revised hinge connection and 6' float pile collar.
- Change sill spacing from 6'-0" to 6'-3"

REVISIONS JAN 1966

- Add polyethylene barrier note
- Delete reference to extruded polystyrene billets

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 true size 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" inch 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 flotation material (except float siding members).

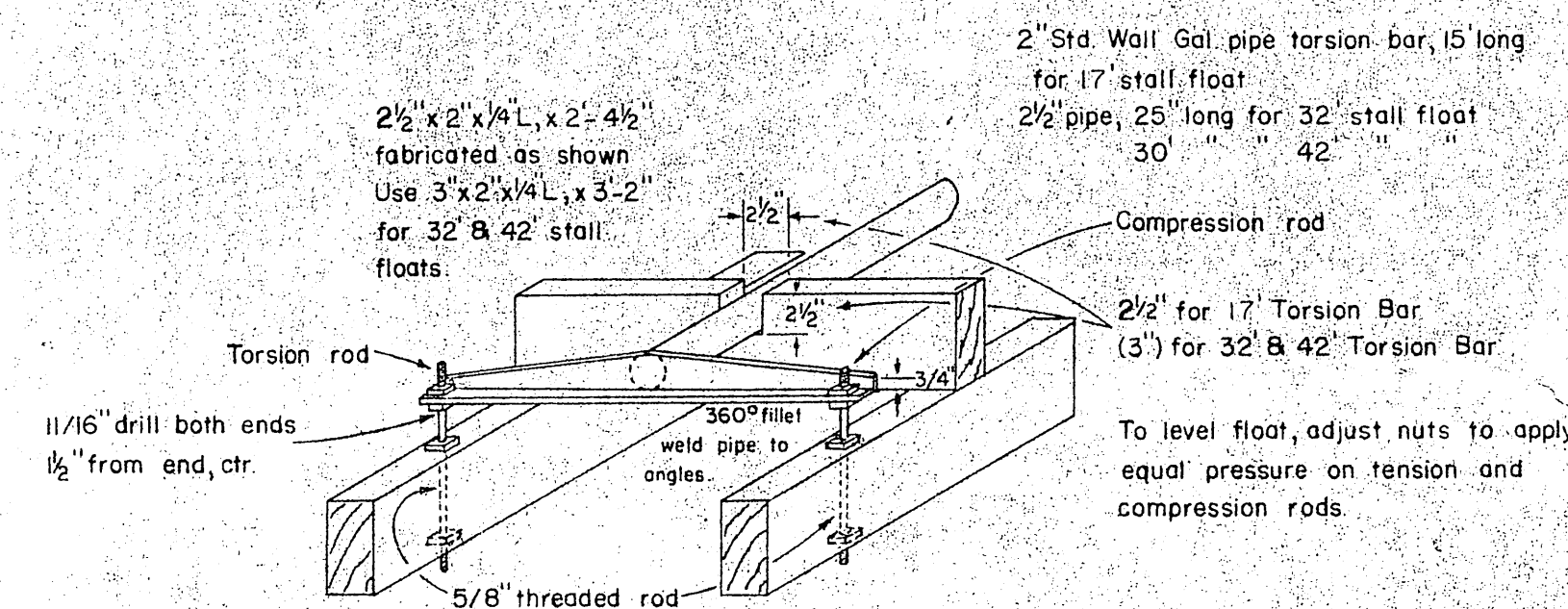
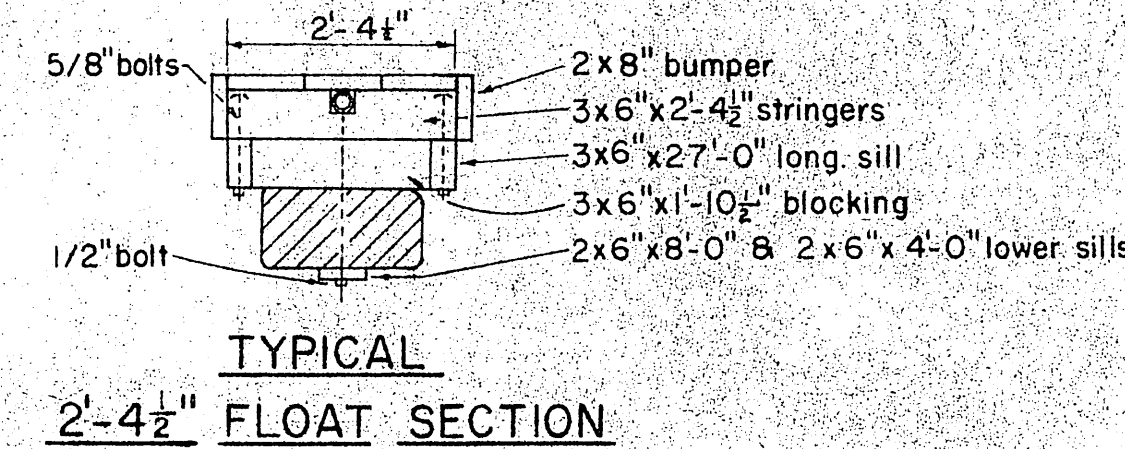
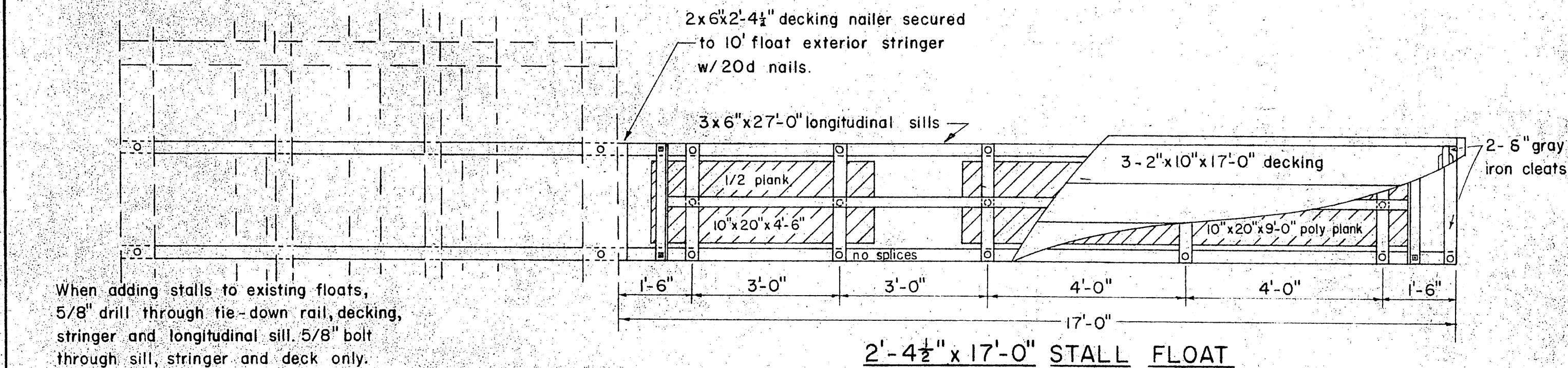
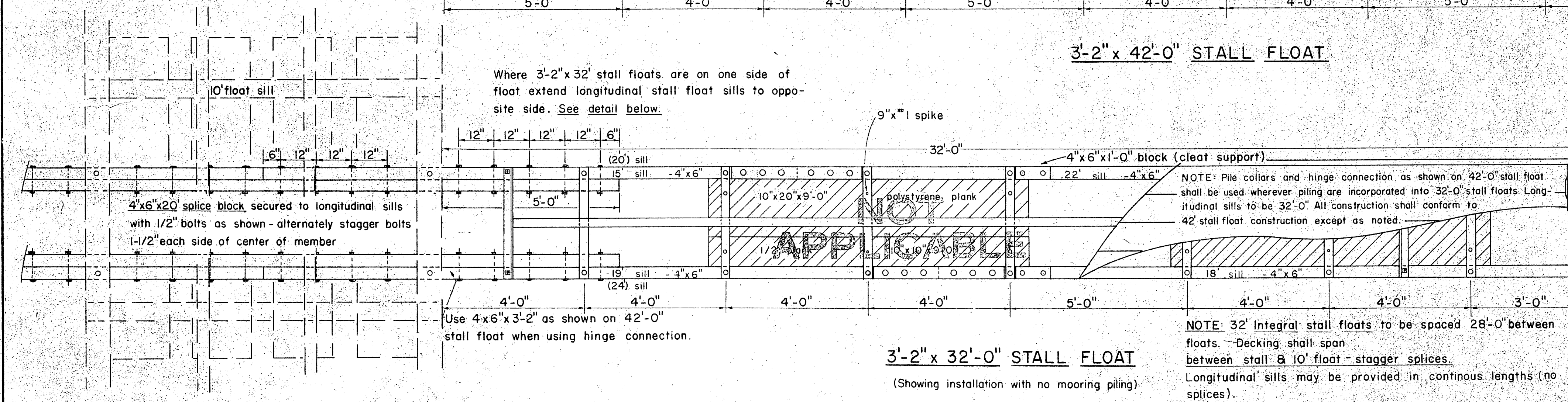
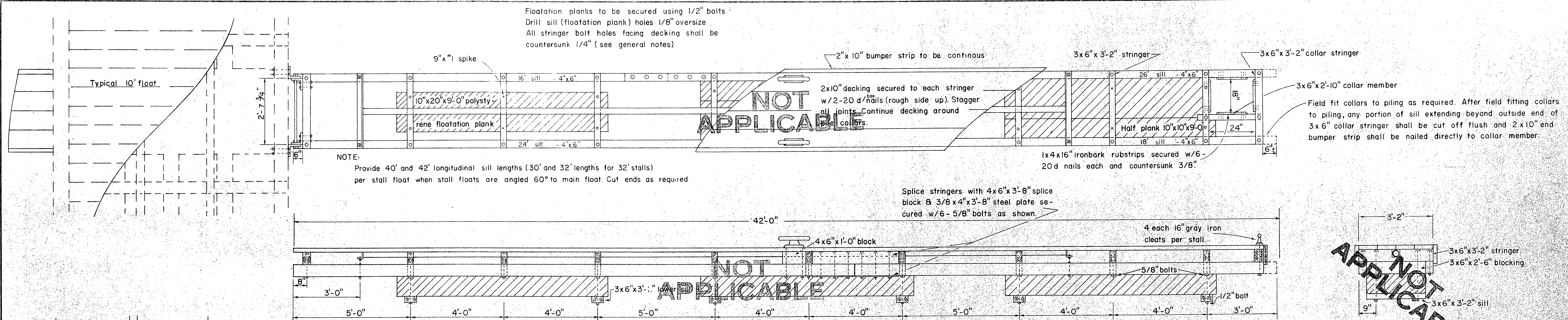
REVISIONS JUNE 1966

- Change deck to 2x10 placed tight together.
- Change stringer & rail splice locations - delete splice block.

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

TYPICAL FLOATS

SCALE AS SHOWN	APPROVED <u>BON STATTER</u>
DATE March 1965	DIRECTOR
DESIGNED BY RPH-DS	DRAWN BY B.W.
CHECKED BY DS	

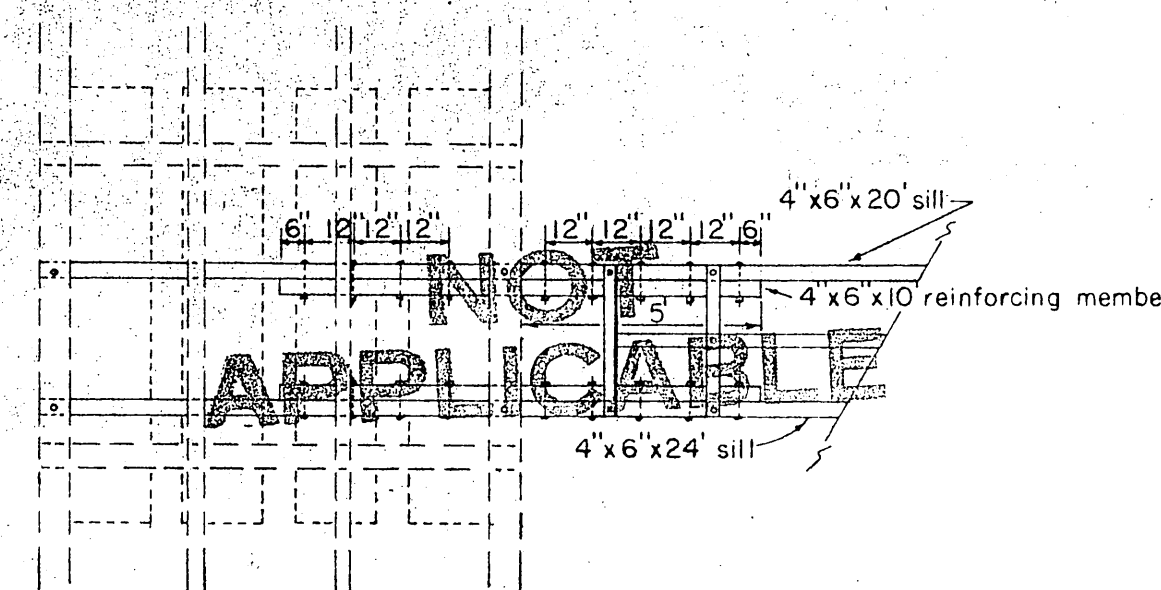


MATERIALS		
ITEM	DRESSING	TREATMENT
PILING - CLASS "A"		12" Ref
3x6" LOWER SILLS	S-2-E	" "
3x6" STRINGERS	"	8" "
3x6" COLLARS	"	" "
3x6" BLOCKING		" "
4x6" SPLICE BLOCKS	"	" "
4x6" LONGITUDINAL	"	" "
2x10" BUMPERS	S-1-S-2-E	" "
2x10" DECKING	"	" "
STALL FLOAT SILLS		

NOTE: ALL 12" CREO. TREATMENT TO BE FULL CELL
" 8" " " " " EMPTY
ALL TIMBER MATERIAL TO BE CONSTRUCTION
GRADE DOUGLAS FIR

GENERAL NOTES

All hardware to be hot dip galvanized. A malleable washer shall be placed between all nut and wood surfaces. All bolts to be of economy headed type. Bolt holes to be drilled true size except sill bolt holes for floatation planks 1/8" oversized. Spike holes to be drilled 1/16" undersized. 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" except 1/2" floatation plank bolts. Omit tie down rails where stall floats join 10' floats, add blocking and bolt tie down rail to exterior stringer. All bolt holes to be predrilled except holes in splice block (integral stall float installation). Field drill all 9' spike holes, 5/8" bolt holes countersunk 1/4" deep x 2-1/8" diameter. 1/2" bolt holes countersunk 1/4" deep x 1-3/4" diameter.



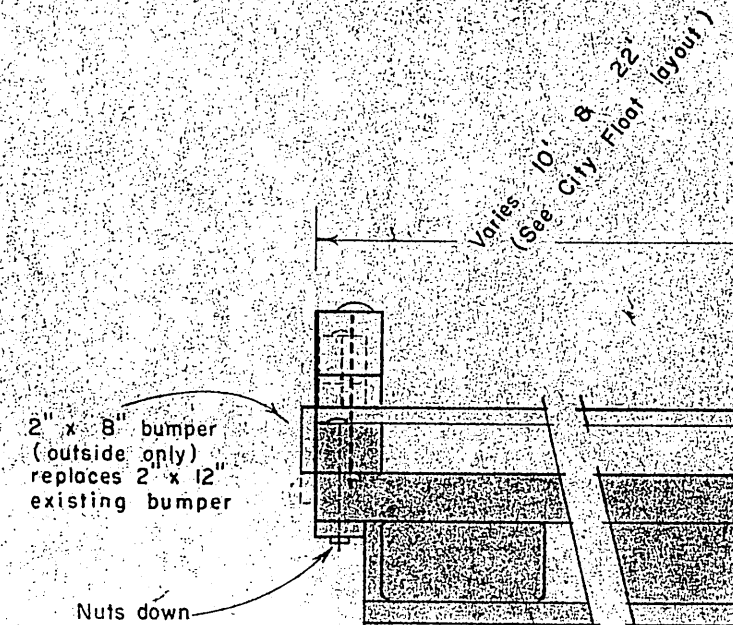
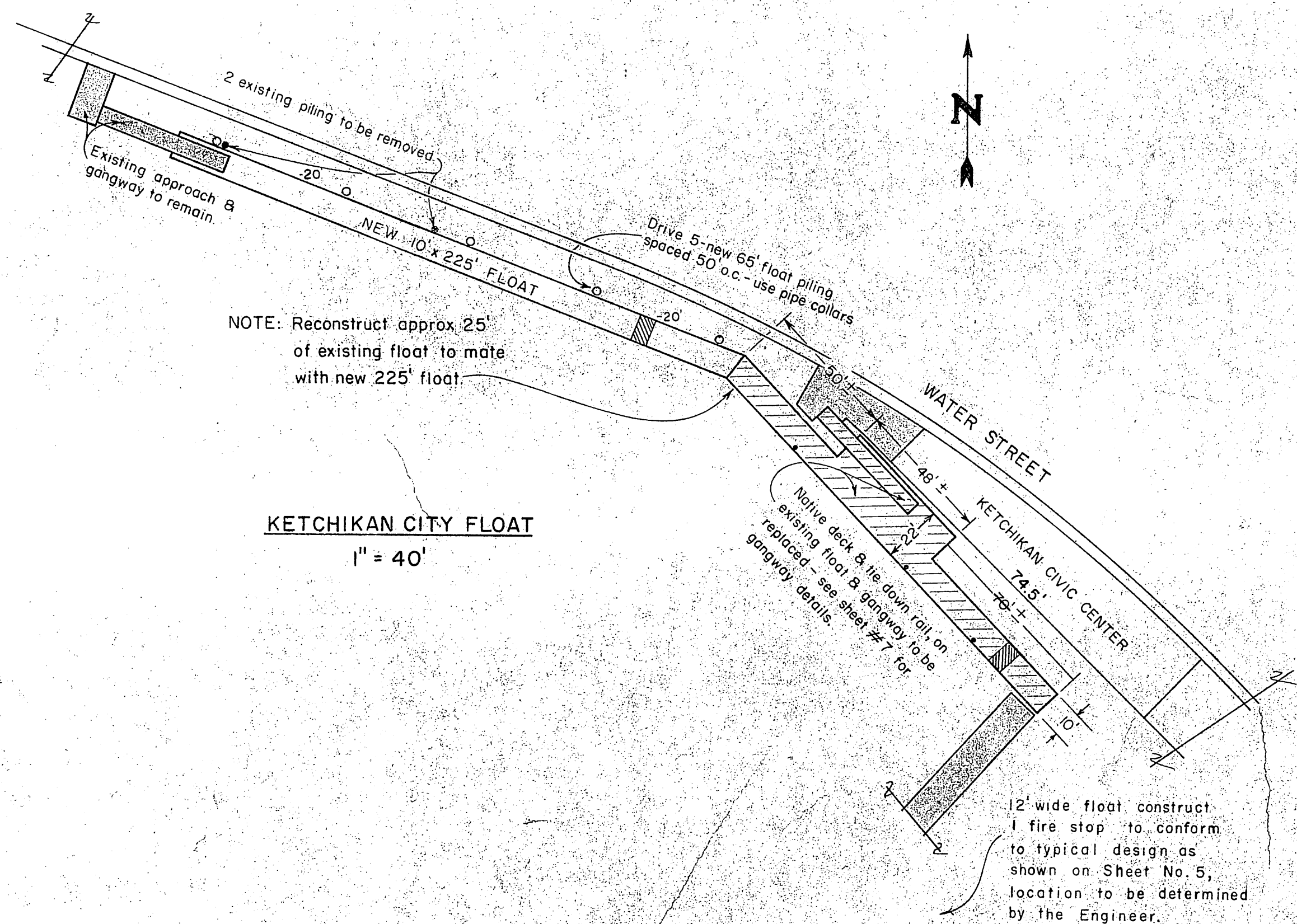
3'-2" x 32' STALL FLOAT DETAIL
ONE SIDE INSTALLATION
1/4" = 1'-0"

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

TYPICAL STALL FLOATS

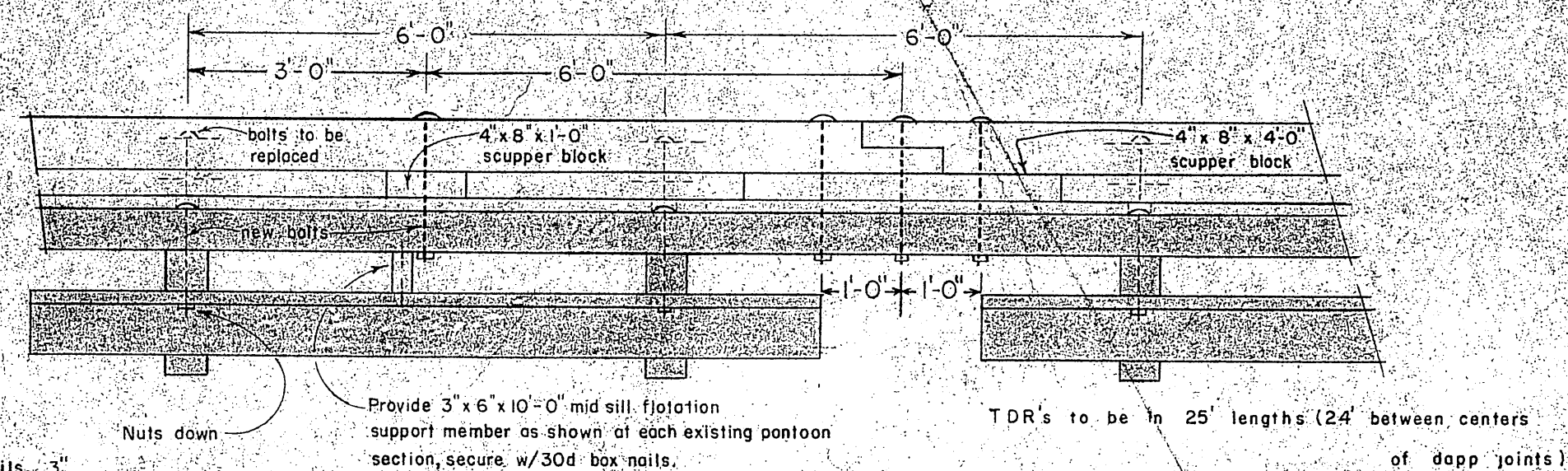
3'-2" x 42', 3'-2" x 32', and 2'-4 1/2" x 17'

SCALE 1/2" = 1' -----
DATE AUGUST, 1966 APPROVED DON STATTER DIRECTOR
PROJ. NO. _____
DESIGNED BY DS DRAWN BY MM CHECKED BY DS
SHEET NO. SHEETS



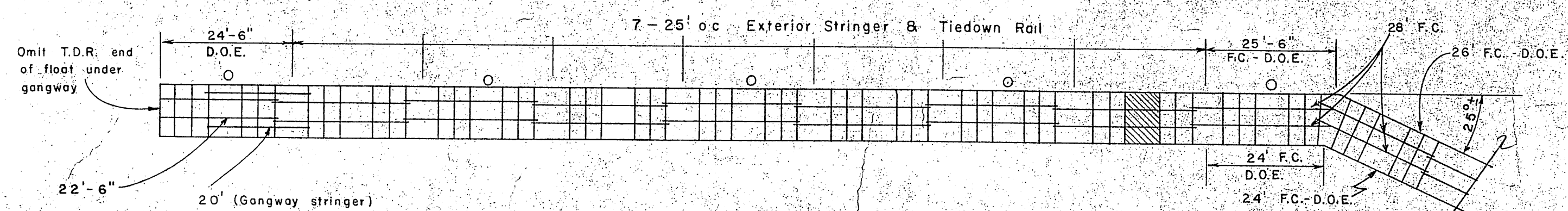
Notes: Tie down rail and decking replacement

Scope of work: Existing 6' x 6" tie down rails, 3" scupper blocks, 2" decking, and 2' x 12" bumper members to be removed and replaced with 8' x 8" S4S tie down rails, 4" S4S scupper blocks, 2" S4S 2" E decking and 2' x 8" S4S bumper members (one side only). Existing tie down rail thru sill bolts to be replaced with short bolts securing sill, stringer and bolt plate. New tie down rail to be secured with 3/4" bolts as shown. All bolts to be 3/4" economy head type with malleable washers. All replacement lumber to be construction grade, Douglas Fir, 8" creos retention, empty cell process.



TIE DOWN RAIL & DECKING REPLACEMENT DETAILS

1/2" = 1'-0"



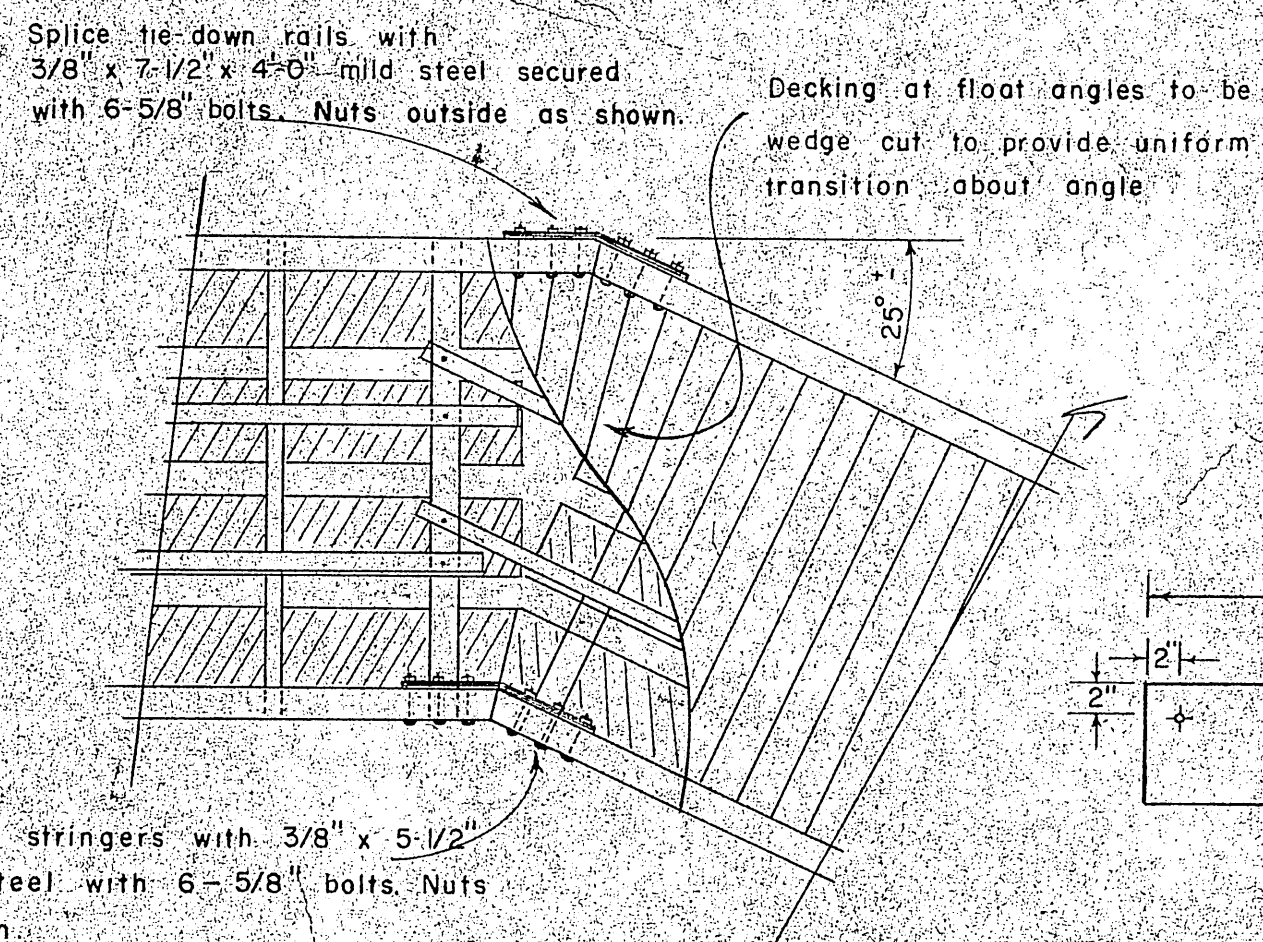
STRINGER DIAGRAM

1" = 20'

T.D.R. = Tie Down Rail
F.C. = Field Cut as required
D.O.E. = Dapp One End only

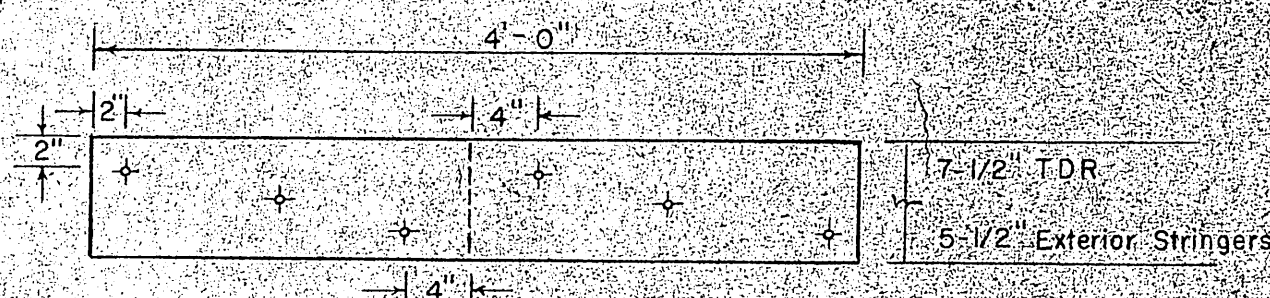
Notes:

1. All Exterior Stringers & T.D.R. to be spliced at the locations indicated. Distances given indicate lengths between centers of dapp joints.
2. All Interior Stringers to be in 26' lengths except as indicated.



ANGLE CONNECTION DETAIL

1/4" = 1'-0"



STATE OF ALASKA DEPARTMENT OF PUBLIC WORKS DIVISION OF WATER AND HARBORS	
KETCHIKAN CITY FLOAT PLAN & CONSTRUCTION DETAILS	
SCALE AS SHOWN DATE March 1967 PROJ. NO. 3-68142	APPROVED DON STATTER DIRECTOR DESIGNED BY DS DRAWN BY TV-CD CHECKED BY DS