STATE OF ALASKA

DEPARTMENT OF PUBLIC WORKS

DIVISION OF WATER & HARBORS

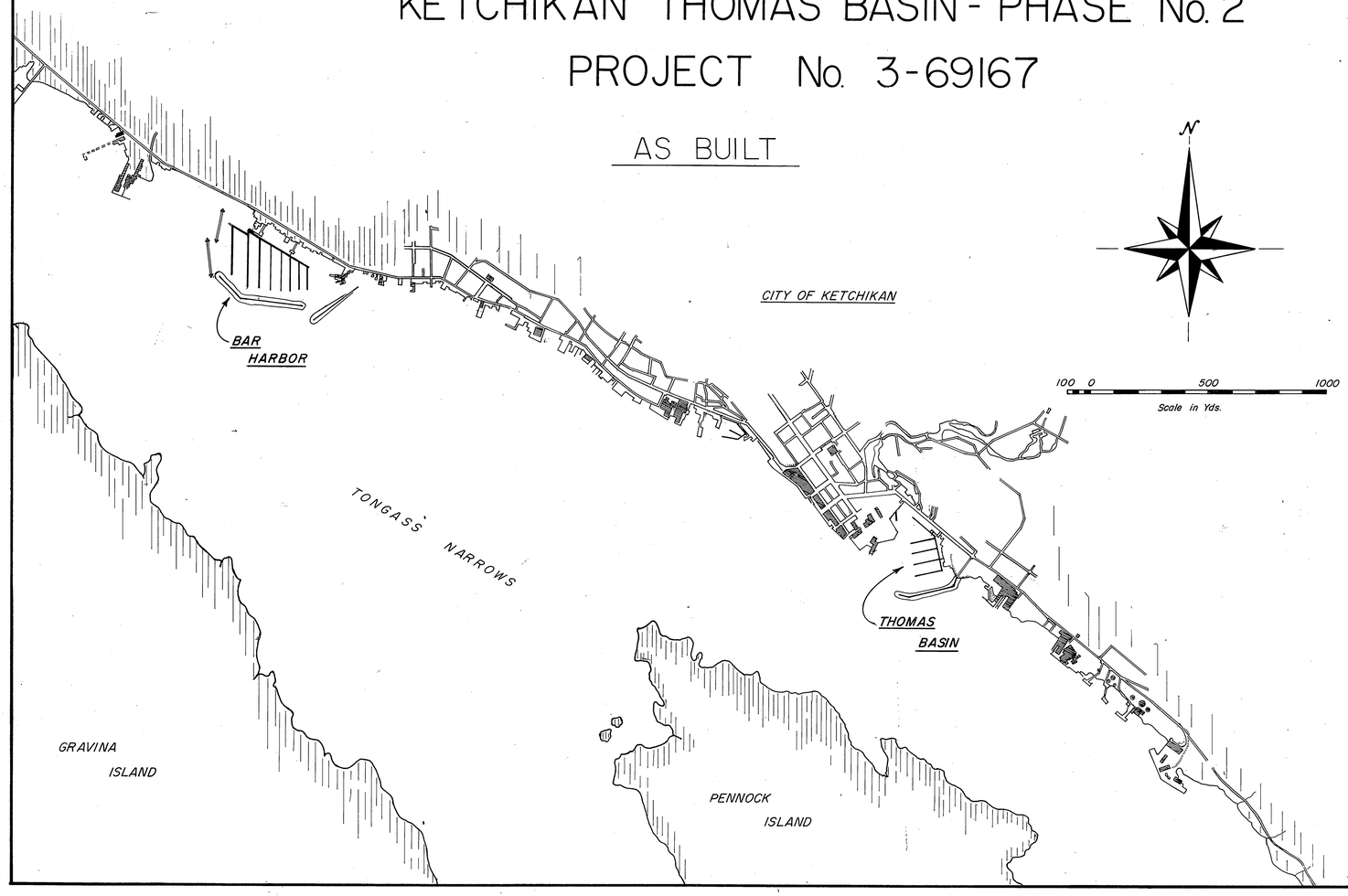
KETCHIKAN BAR HARBOR - PHASE No. 7

PROJECT No. 3-69153

KETCHIKAN THOMAS BASIN - PHASE No. 2

PROJECT No. 3-69167

AS BUILT



WORK SUMMARY

THOMAS BASIN: Major units of this project shall consist of the construction & installation of 23-17'x2'-4 1/2" stall floats (929 S.F.), seven (7) firestops (420 S.F.), and performing misc. repairs to existing floats.

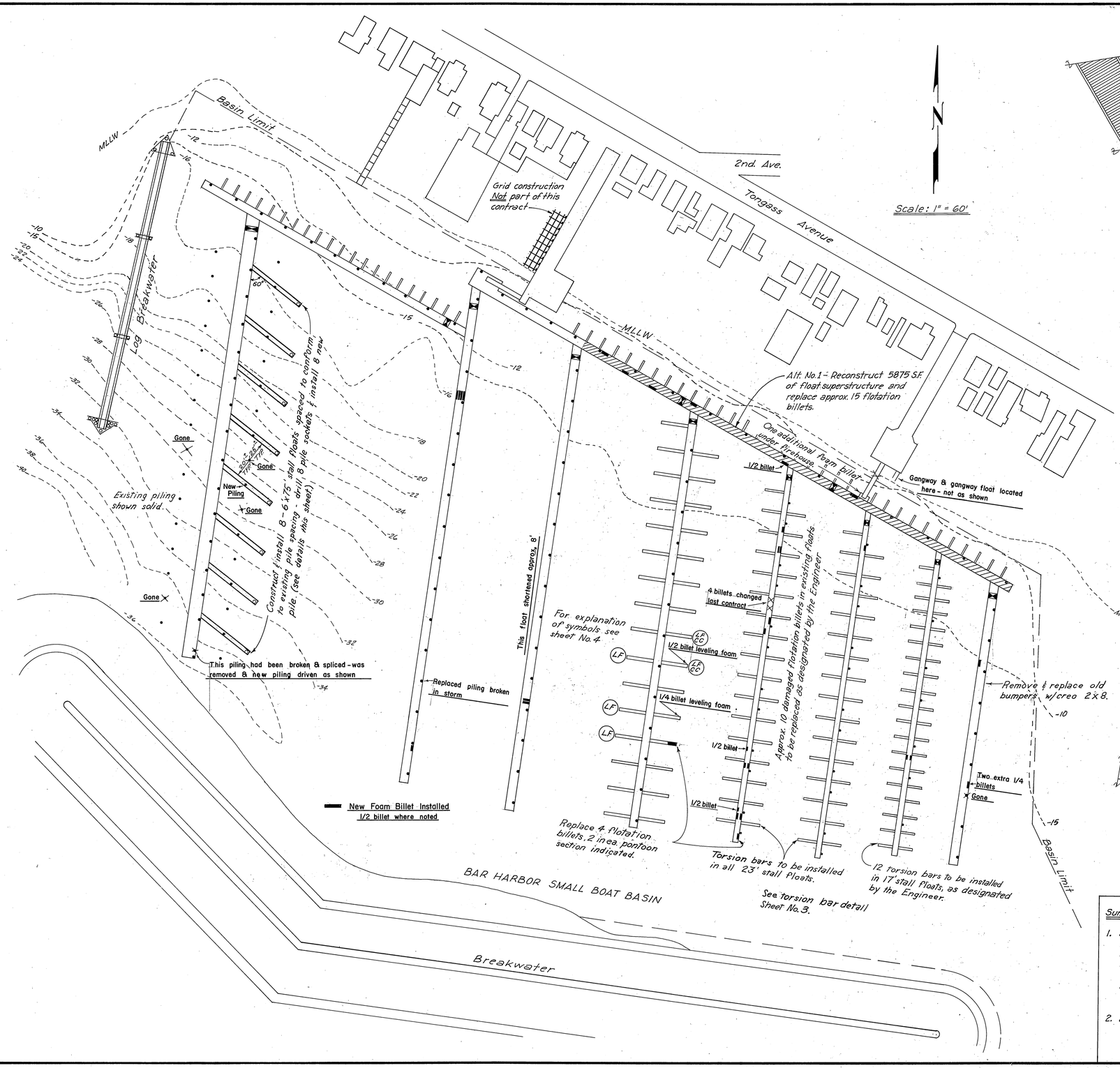
BAR HARBOR: Major units of this project shall consist of the construction & installation of 8-75'x6' stall floats (3516 S.F.), ~~an 18'x72' grid~~, drilling eight (8) pile holes (80 L.F.), placing eight (8) float piling (544 L.F.), installation of eleven (11) firestops (624 S.F.), performing misc. float repairs, and furnishing 60 additional flotation billets.

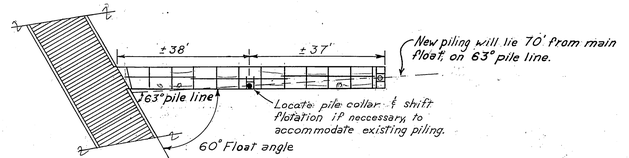
Alternate No.1: Consists of reconstruction of 5875 S.F. of float superstructure, and replacement of approx. 15 flotation billets.

INDEX TO SHEETS

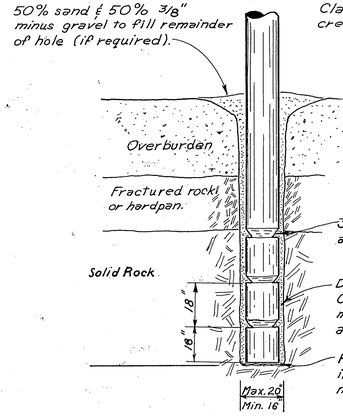
DATE 8-16-68

APPROVED Lynn A. Ferrell Jr. for COMMISSIONER

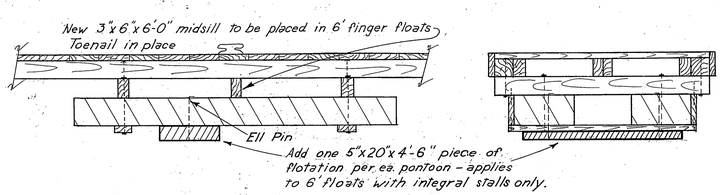




DETAIL – 75' STALL FLOAT
Scale 1" = 20'



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



ADDITIONAL FLOTATION - 6' FLOAT
Scale 1/2" = 1'-0"

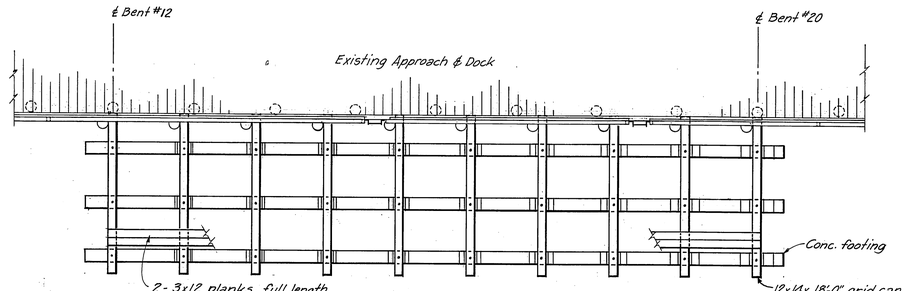
Summary of Misc. Repairs at Bar Harbor

1. a. Level 5 stall floats.
   b. Furnish & install 33 torsion bars in 23' stall floats.
   c. " " " 12 " " " 17' " "
   d. Furnish & install 98 - 5'x20"x4'-6" flotation billets in 6' finger floats w/integral stalls, and add 98 mid sills.
   e. Remove approx 685 L.F. of native mat'l bumpers and replace with creosote treated 2x8 bumpers.
2. a. Replace or install approx. 15 - 10'x20"x9'-0" flotation billets in existing floats.

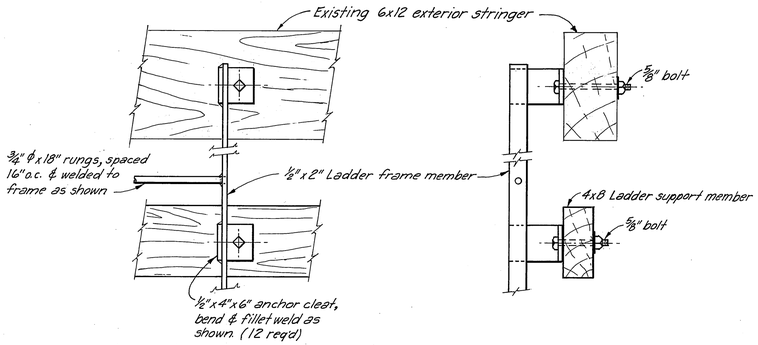
STATE OF ALASKA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF WATER AND HARBORS

BAR HARBOR PLAN & MISC. DETAILS

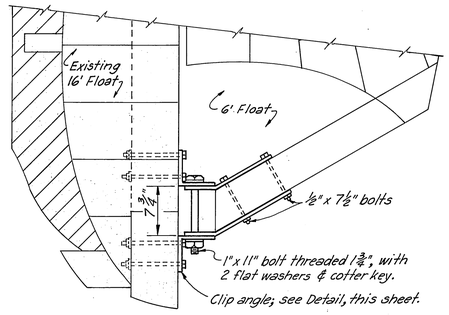
SCALE As Shown
DATE August 1968
PROJ. NO. 3-63153
APPROVED Don Statter DIRECTOR
SURVEYED BY
DRAWN BY GEO. JR. CHECKED BY DW



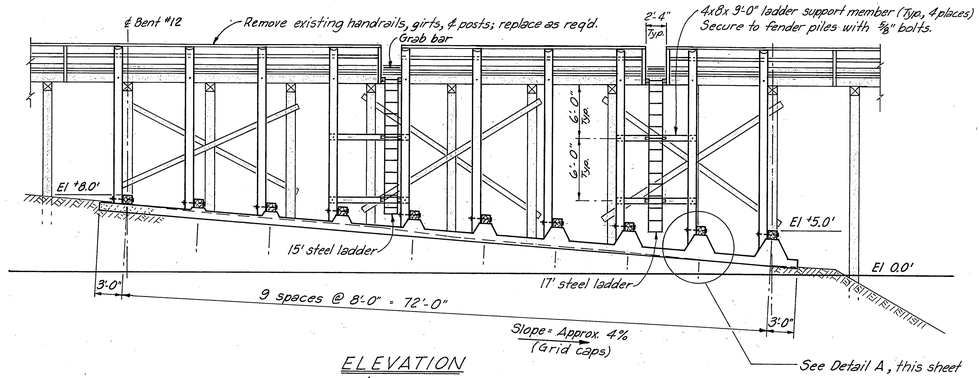
GRID — PLAN
Scale: 1/8"= 1'-0"



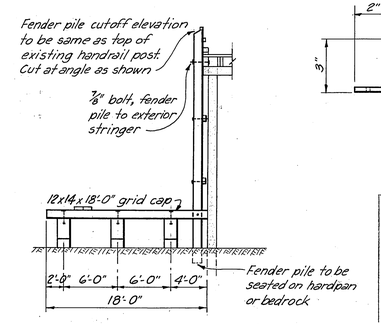
LADDER CONSTRUCTION DETAILS
Scale: 1 1/2" =1'-0"



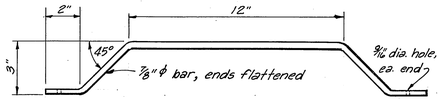
PLAN — CUTAWAY VIEW



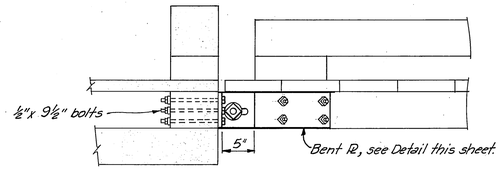
ELEVATION
1/8"= 1'-0"



END ELEVATION
1/8"= 1'-0"



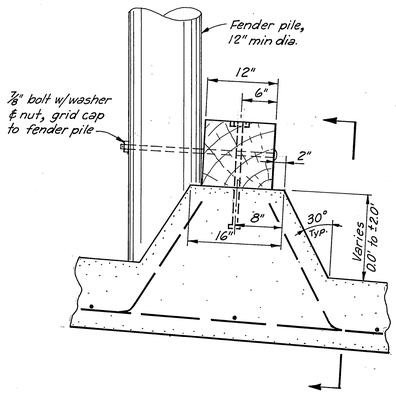
GRAB BAR DETAIL
Scale: 3" = 1'-0"



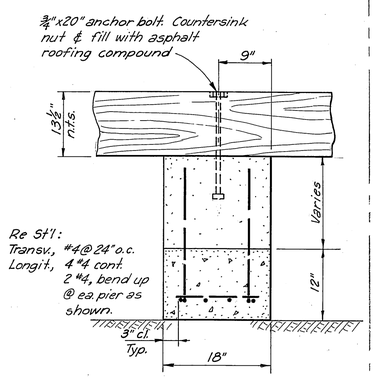
ELEVATION

60° ANGLE FLOAT CONNECTIONS
Scale: 1" = 1'-0"

NOTE: GRID CONSTRUCTION NOT PART OF THIS CONTRACT.

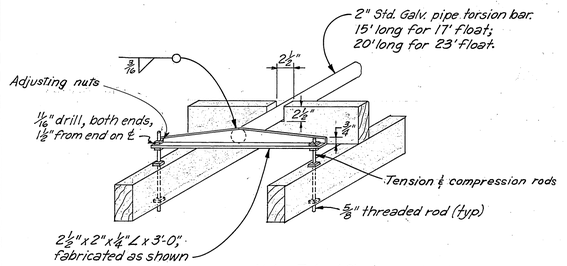


ELEVATION



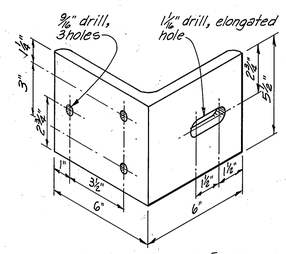
SECTION

DETAIL A
Scale: 1" = 1'-0"



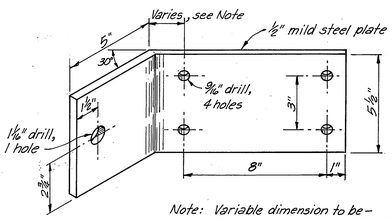
Note: To level float, tighten appropriate adjusting nut on one side & back off an equal amount on adjusting nut opposite side.

STALL FLOAT STABILIZER DETAIL
Scale: 1" = 1'-0"



Fabricate from std. 5/8" x 6" equal leg angle

CLIP ANGLE DETAIL
Scale: 3" = 1'-0"



Note: Variable dimension to be — 2" all short side plates for 16" plate. 5 1/2" all outside plates for 19 1/2" plate.

BENT PLATE DETAIL
Scale: 3" = 1'-0"

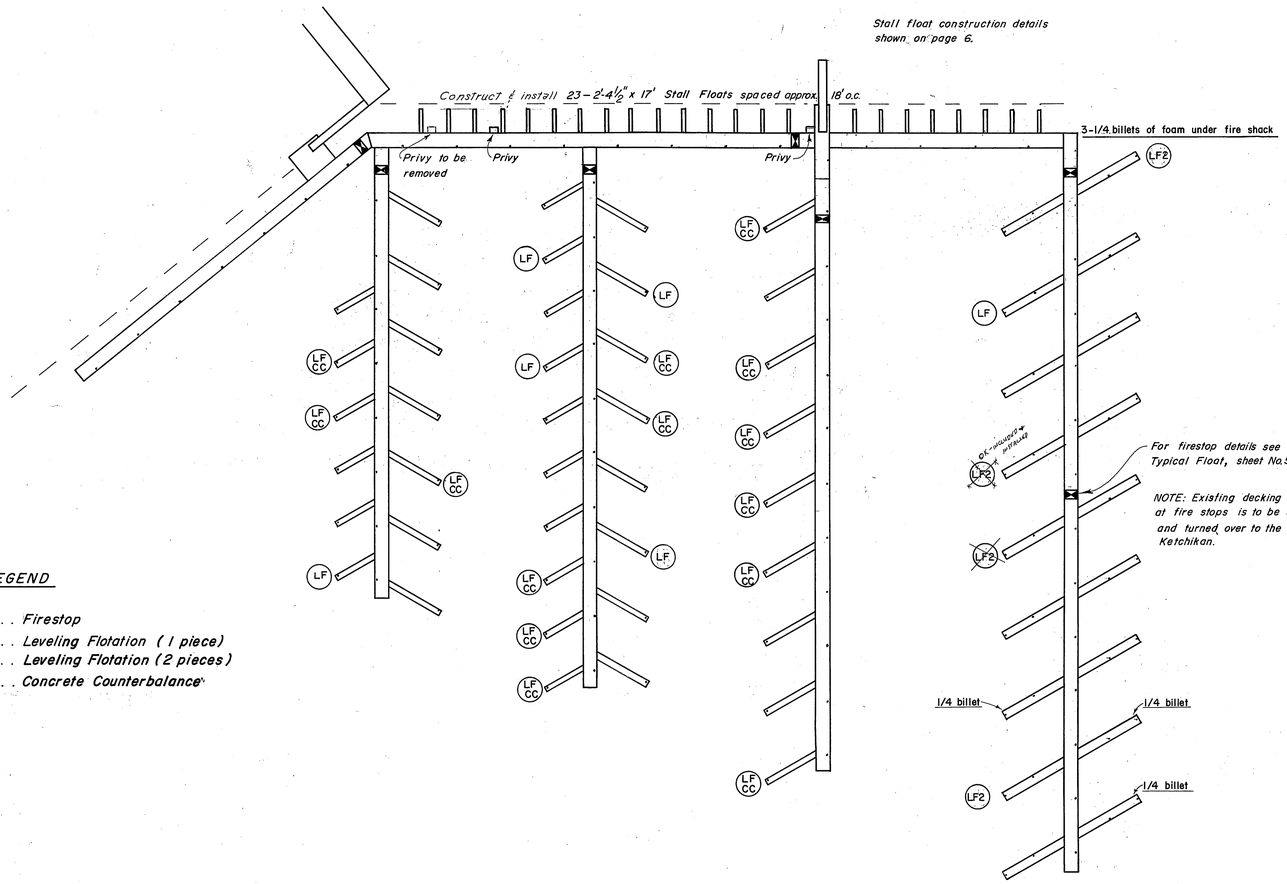
Notes:
1. All hardware except ReSt'l to be hot dip galvanized.
2. A malleable iron washer shall be placed between all nut & wood surfaces.
3. All bolts to be of the economy headed type, except as noted.
4. All bolt holes shall be drilled true size; field drilled holes in creo. treated members shall be treated with hot creo. oil.
5. Pressure treated creosote material shall be cut to size prior to treatment.
6. All timber material to be constr. grade Douglas fir.
7. All 12 lb. ret. creo. treatment to be full cell; all 8 lb. ret. creo. treatment to be empty cell.

MATERIALS		
ITEM	DRESSING	TREATMENT
Piling	Class A	12# creo. ret.
Caps	S2E	" " "
Grid decking	Rough	8# creo. ret.
Ladder support	Rough	" " "

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

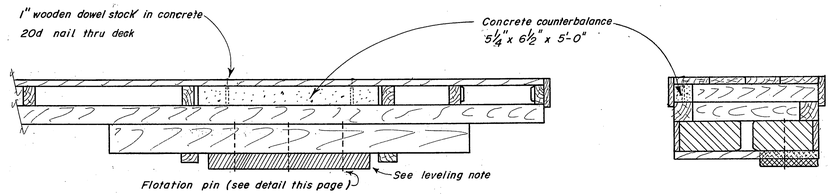
GRID & MISCELLANEOUS CONSTRUCTION DETAILS

SCALE: As noted
DATE: 7-31-68
APPROVED: Don Statter, DIRECTOR
JOB NO. 3-69153
DRAWN BY JET | CHECKED BY DWL



LEGEND

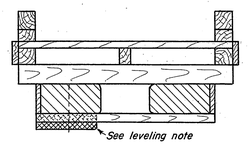
- ▪ . . . . . Firestop
- LF . . . . . Leveling Flotation (1 piece)
- LF2 . . . . . Leveling Flotation (2 pieces)
- CC . . . . . Concrete Counterbalance



4' FLOAT SECTION

(Showing leveling flotation & concrete ballast)

Scale 1/2" to 1'-0"



6' FLOAT SECTION

(Showing leveling flotation)

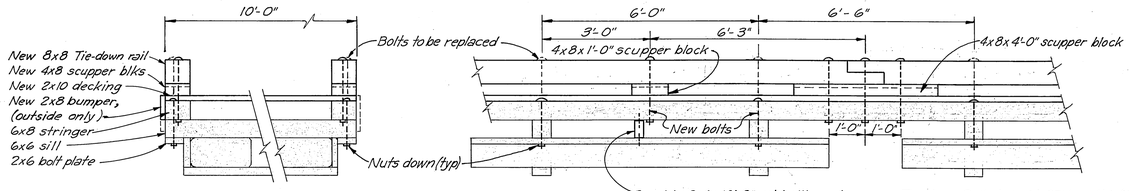
Scale 1/2" = 1'-0"

Leveling Note:

5"x 20" x 4'-6" leveling flotation shall be installed at the locations indicated on float plan layout (this sheet). Place flotation between lower sill members with the outer edge bearing on side members (cut side up). Pin flotation together with 3/8" x 20" "ell" pin (see detail), 3 places approx. equally spaced.

KETCHIKAN - THOMAS BASIN FLOAT FACILITIES

Scale 1" = 50'

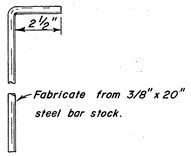


NOTES:

Existing Tie-down Rails, Scupper Blocks, Decking and Bumpers to be removed. Replace with 8x8 S4S TDR's, 4x8 S4S Scupper blocks, 2x10 SIZE decking & 2x8 S4S bumper member (one side only). Long bolts to be replaced with short bolts securing sill, stringer & bolt plate. New TDR to be secured w/ ¾" bolts as shown. All bolts to be ¾" econ. hd. type w/ M.I. washers. All timber mat'l to be Const grade Doug. fir, 8# creo. retention, empty cell process.

10' FLOAT RECONSTRUCTION DETAIL (ALT. No. 1)

Scale: ½" = 1'-0"



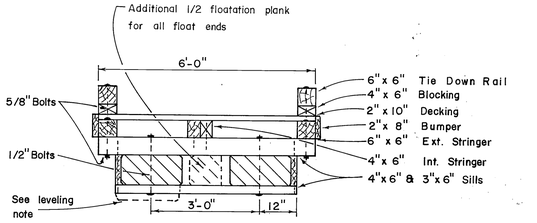
FLOTATION PIN DETAIL

Scale 3" = 1'-0"

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

THOMAS BASIN PLAN & MISCELLANEOUS DETAILS

SCALE As Shown
DATE July 25, 1968
PROJ. NO. 369/167
APPROVED Don Statter DIRECTOR
SURVEYED BY
DRAWN BY CED CHECKED BY DW

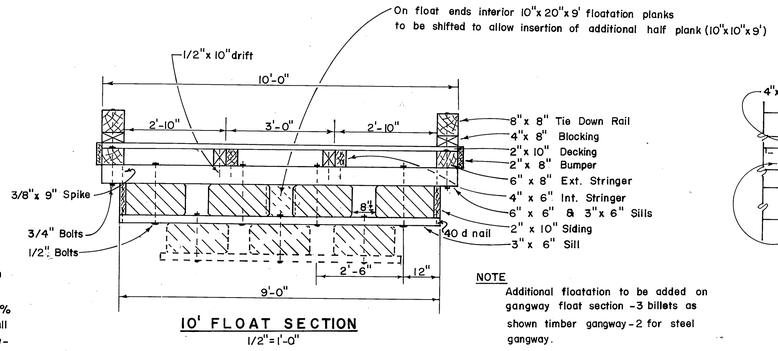


6' FLOAT SECTION

1/2"= 1'-0"

NOTE

6' Float construction shall conform to 10' float constr. except as noted.



10' FLOAT SECTION

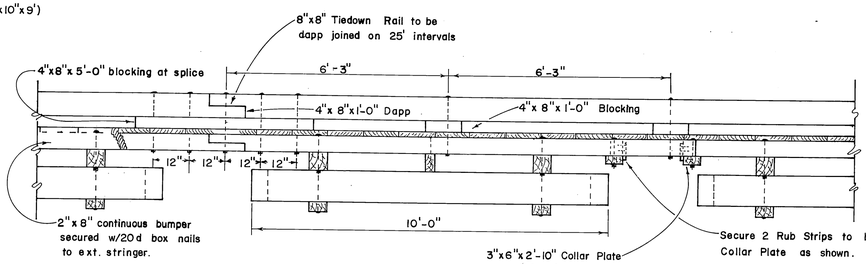
1/2"= 1'-0"

Leveling note

5"x 20"x 4' to 5' levelling 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.

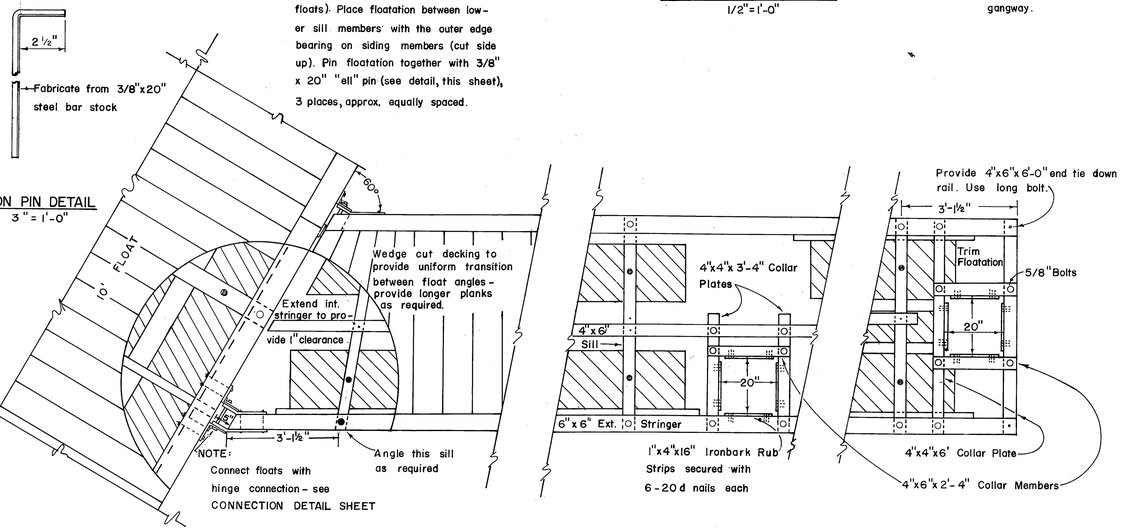
NOTE

Additional floatation to be added on gangway float section -3 billets as shown timber gangway - 2 for steel gangway.



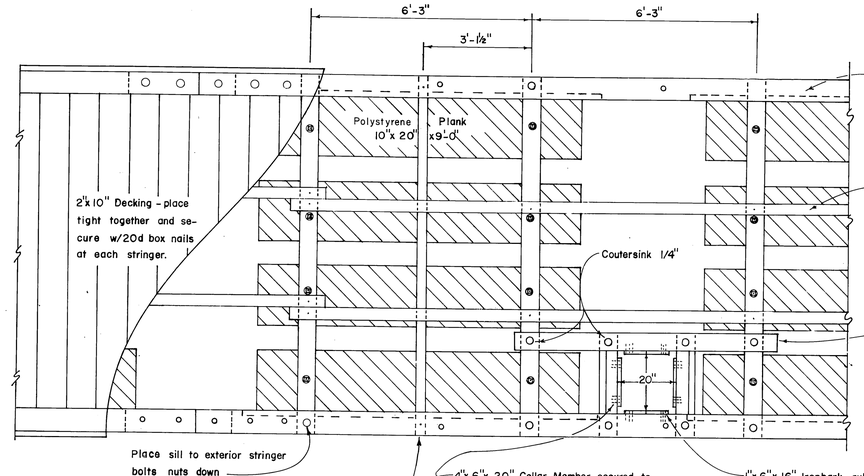
ELEVATION

1/2"= 1'-0"



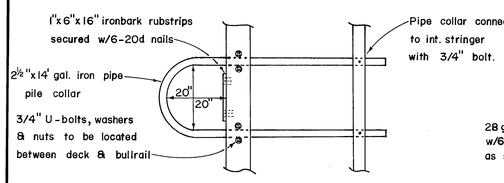
FLOTATION PIN DETAIL

Scale: 3 " = 1'-0"



PLAN VIEW 10' FLOAT

1/2" = 1'-0"



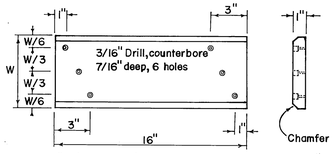
CONNECTION & COLLAR DETAIL

6' STALL FLOAT

1/2"= 1'-0"

PIPE PILE COLLAR DETAIL

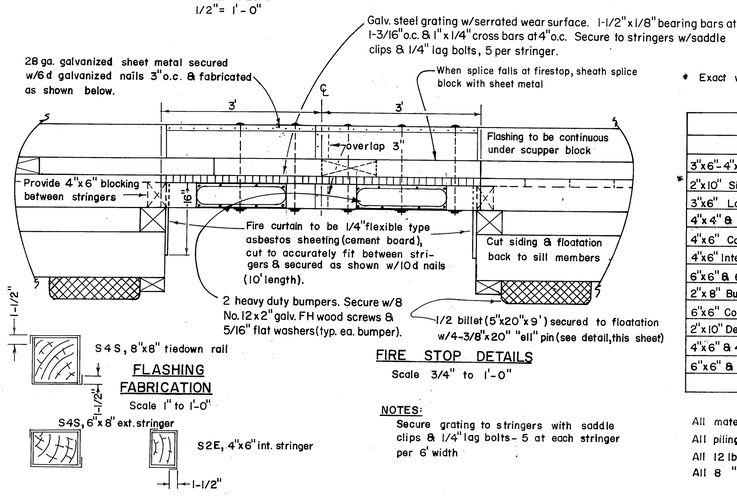
1/2"= 1'-0"



W = 4'-6' float & 4' stall float
6"-all others

IRONBARK RUB STRIP

1" = 6"



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

* Exact width to conform to width of floatation material

MATERIALS		
ITEM	DRESSING	TREATMENT
3"x6"- 4"x6" & 6"x6" upper sill	S-1-E 1/8" off	12 lbs. ret.
2"x 10" Siding	2"x 10½"	" "
3"x6" Lower Sill	Rough	" "
4"x 4" & 3"x6" Collar Plates	Rough	8 lbs. ret.
4"x6" Collar Members	S-2-E	" "
4"x6" Interior Stringers	" "	" "
6"x6" & 6"x8" Ext. Stringers	S-4-S	" "
2"x 8" Bumpers	" " "	" "
6"x6" Collar Stringers	" " "	" "
2"x 10" Decking	S-1-S-2-E	" "
4"x 6" & 4"x8" Blocking	S-4-S	" "
6"x6" & 8"x8" 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
DEPARTMENT OF PUBLIC WORKS
DIVISION OF WATER AND HARBORS

TYPICAL FLOATS

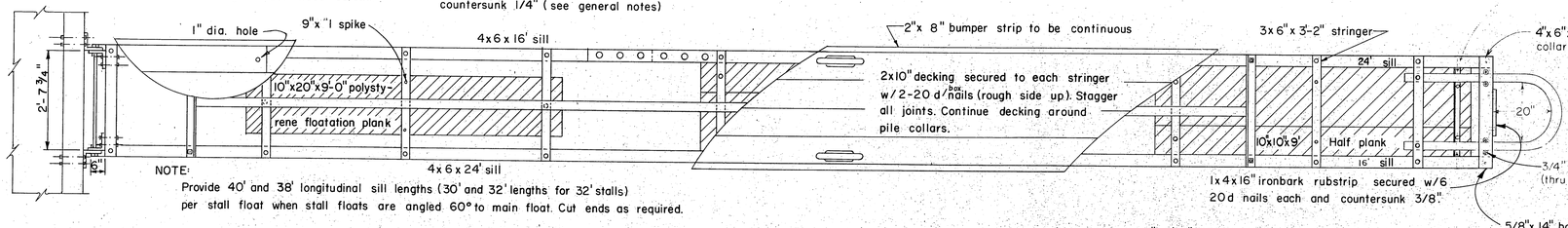
SCALE As Shown
DATE April 1968
PROJ. NO.

APPROVED DON STATTER
DIRECTOR

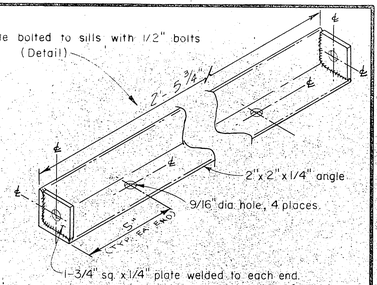
DESIGNED BY RPH-DS DRAWN BY MI CHECKED BY DS

Provide 2 access hatches over stabilizer bar adjustment bolts as shown — secure w/4 – 3" x #12 galvanized wood screws.

Floatation planks to be secured using 1/2" bolts. Drill sill (floatation plank) holes 1/8" oversize. All stringer bolt holes facing decking shall be countersunk 1/4" (see general notes)

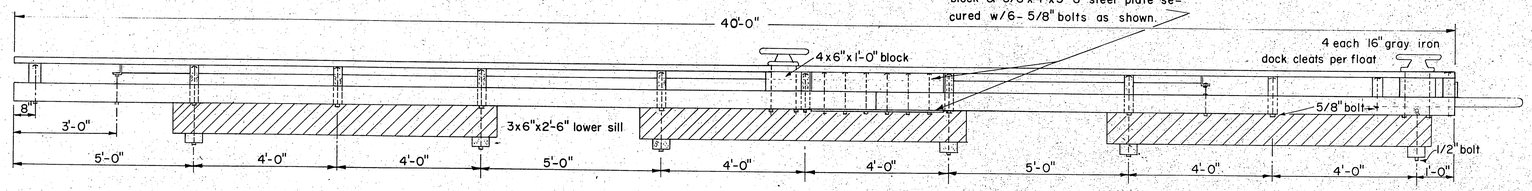


NOTE:
Provide 40' and 38' longitudinal sill lengths (30' and 32' lengths for 32' stalls) per stall float when stall floats are angled 60° to main float. Cut ends as required.

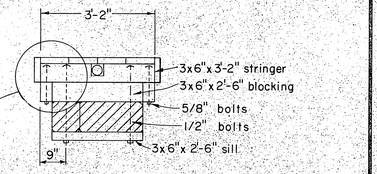


FLOAT END ANGLE
3"=1'-0"

Splice sills with 4x6"x 3'-8" splice block & 3/8 x 4"x 3'-8" steel plate secured w/6- 5/8" bolts as shown.

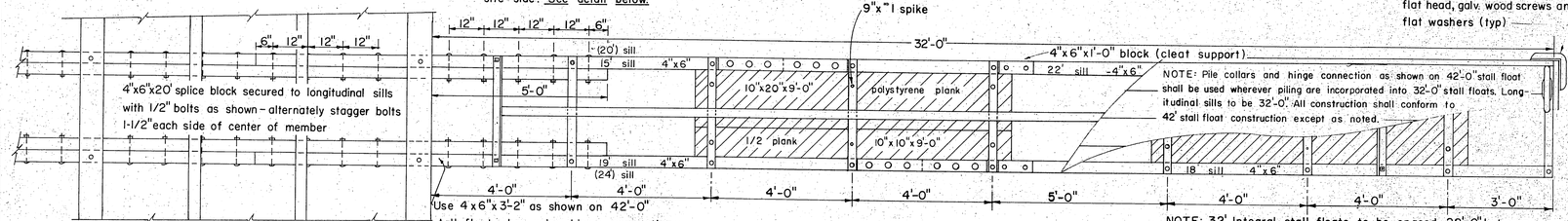


3'-2" x 40'-0" STALL FLOAT
1/2" = 1'-0"



TYPICAL
3'-2" FLOAT SECTION

Where 3'-2"x 32' stall floats are on one side of float extend longitudinal stall float sills to opposite side. See detail below.

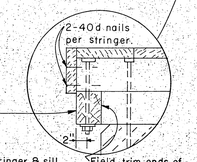


3'-2" x 32'-0" STALL FLOAT
(Showing installation with no mooring piling)
1/2" = 1'-0"

Heavy duty bumper. Secure w/14 No.12 x 2" flat head, galv. wood screws and 5/16" flat washers (typ)

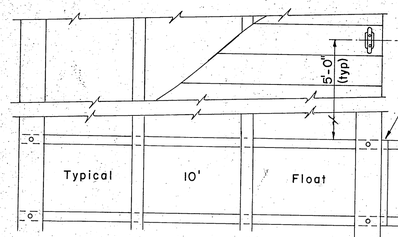
NOTE: Pile collars and hinge connection as shown on 42'-0" stall float shall be used wherever piling are incorporated into 32'-0" stall floats. Longitudinal sills to be 32'-0". All construction shall conform to 42' stall float construction except as noted.

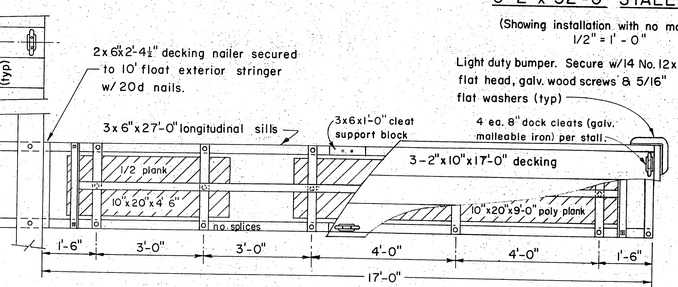
NOTE: 32' integral stall floats to be spaced 28'-0" between floats. Decking shall span between stall & 10' float - stagger splices.
Longitudinal sills may be provided in continuous lengths (no splices).



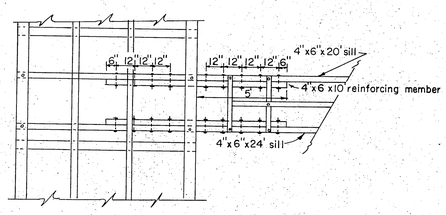
MATERIALS		
ITEM	DRESSING	TREATMENT
PILING - CLASS "A"		12" Ret
3x6" LOWER SILLS	S-2-E	" "
3x6" STRINGERS	"	8 "
3x6" COLLARS	"	" "
3x6" BLOCKING	"	" "
4x6" SPLICE BLOCKS	"	" "
4x6" LONGITUDINAL	"	" "
2x8" BUMPERS	S-1-S-2-E	0.5lb. Penta
2x10" DECKING	"	" "
STALL FLOAT SILLS	S-2-E	8lb creo. ret.

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

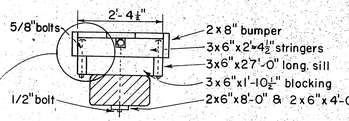




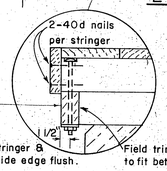
2'-4 1/2" x 17'-0" STALL FLOAT
1/2" = 1'-0"

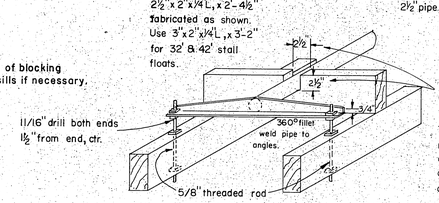


3'-2" x 32' STALL FLOAT DETAIL
ONE SIDE INSTALLATION
1/4" = 1'-0"



TYPICAL
2'-4 1/2" FLOAT SECTION





2" Std. Wall Gal. pipe torsion bar, 15 long for 17' stall float.
2 1/2 pipe, 25' long for 32' stall float
30' " " 42' "

To level float, take-up on nuts as required. Be sure to loosen nuts on opposite side of angle iron before attempting adjustment in order to allow unrestricted rotation.

STALL FLOAT STABILIZER DETAILS
Scale 1" = 1'-0"

GENERAL NOTES

All hardware to be hot dip galvinized. 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.

Revised: July 1970		
DO NOT SCALE THIS DRAWING - USE DIMENSIONS		
THE INFORMATION CONTAINED HEREIN IS THE PROPERTY OF THE STATE OF ALASKA		
TIMBER STALL FLOATS		
As noted		Don Shifter
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