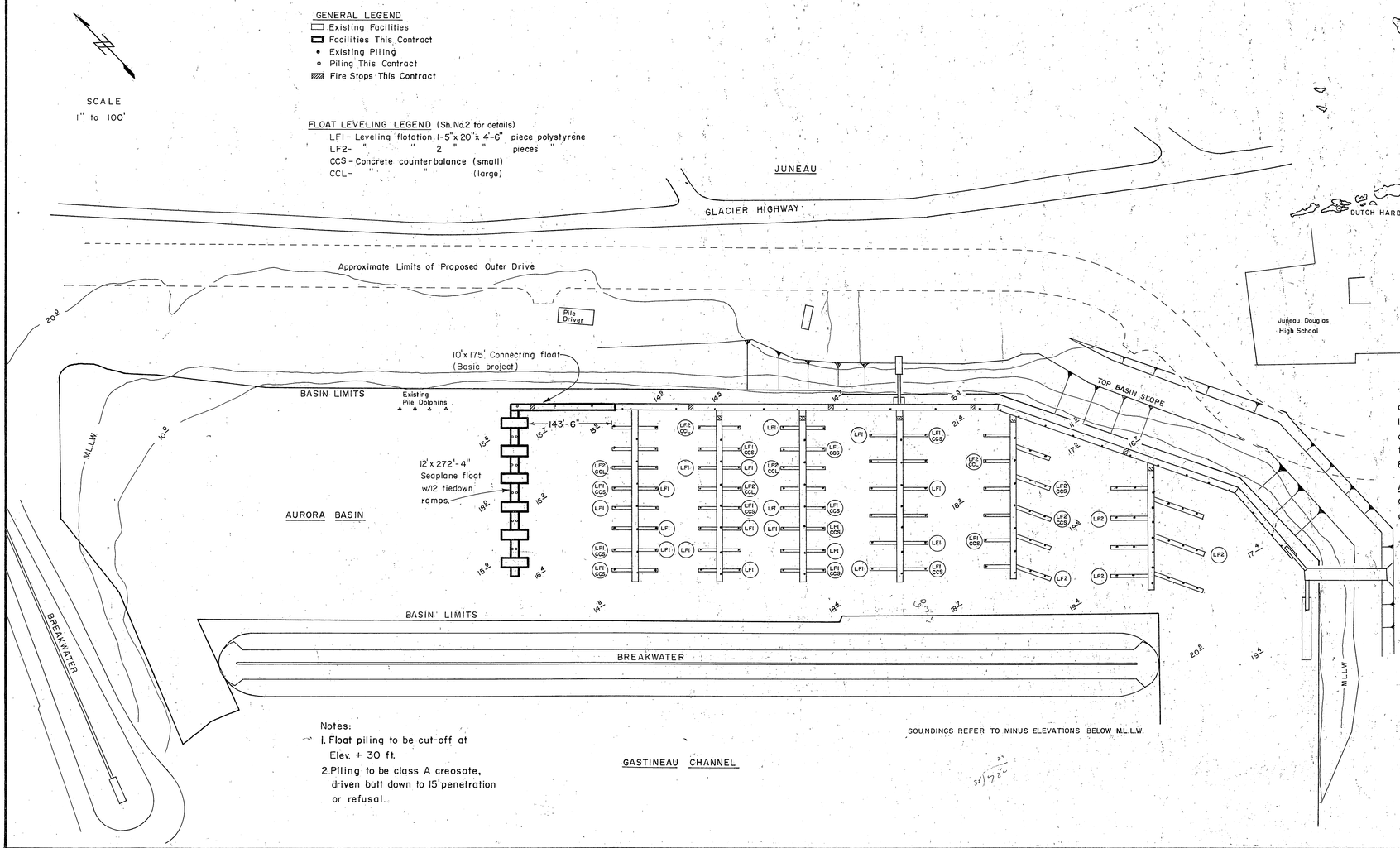
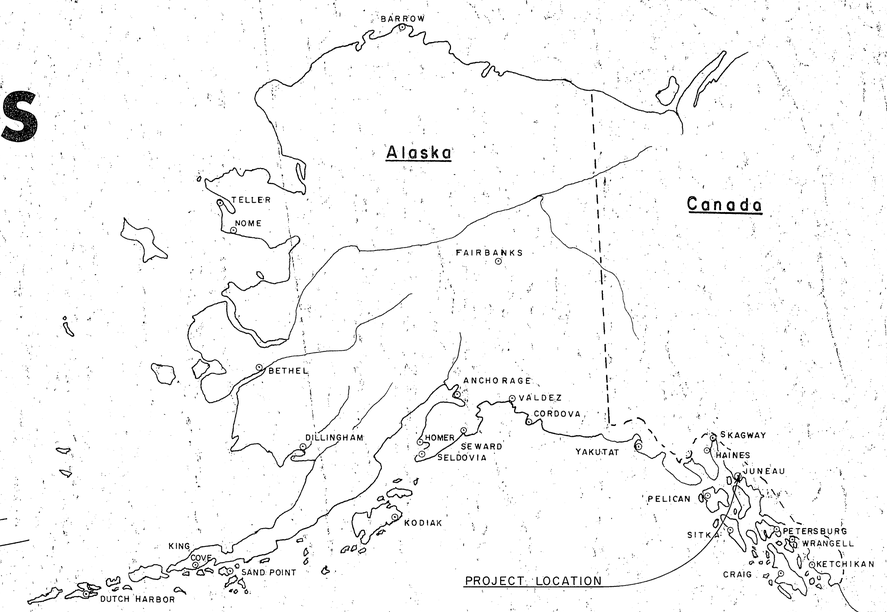
STATE OF ALASKA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF WATER & HARBORS

JUNEAU AURORA HARBOR FACILITIES PHASE NO. 3
PROJECT NO. 3-68180





Notes:
1. Float piling to be cut-off at Elev. + 30 ft.
2. Piling to be class A creosote, driven butt down to 15' penetration or refusal.

WORK SUMMARY

The basic project shall consist of the construction & installation of 1,750 S.F of polystyrene float, 7,048 S.F of polystyrene seaplane tiedown float, furnishing & driving 13 float piling (793 L.F.) & installing 10 Fire stops.

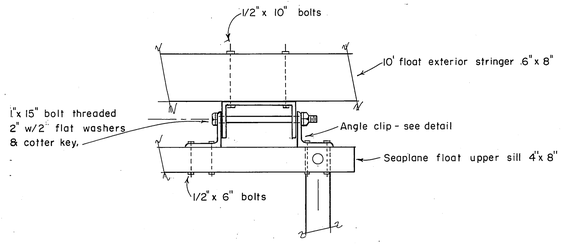
Alternate No. 1 shall consist of the construction & installation of an additional 500 S.F. of polystyrene connecting float.

INDEX TO SHEETS

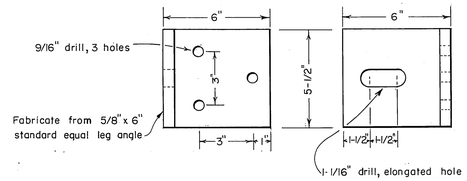
TITLE & FLOAT LOCATION	SHEET 1
FLOAT & PILING LAYOUT & MISC. CONSTRUCTION DETAILS	" 2
TYPICAL FLOATS	" 3
TYPICAL SEAPLANE TIEDOWN FLOAT	" 4

NO AS BUILT AVAILABLE

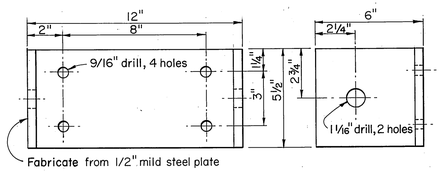
DATE 1/3/68 APPROVED [signature] COMMISSIONER



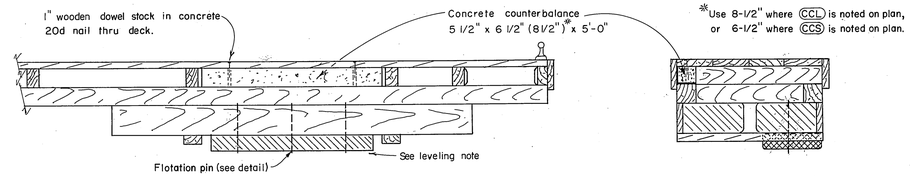
10' FLOAT TO SEAPLANE FLOAT CONNECTION DETAIL
2 (Required)
Scale 1" to 1'-0"



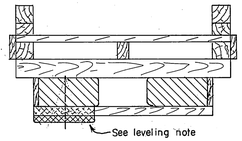
ANGLE CLIP DETAIL
Scale: 3" = 1'-0"



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

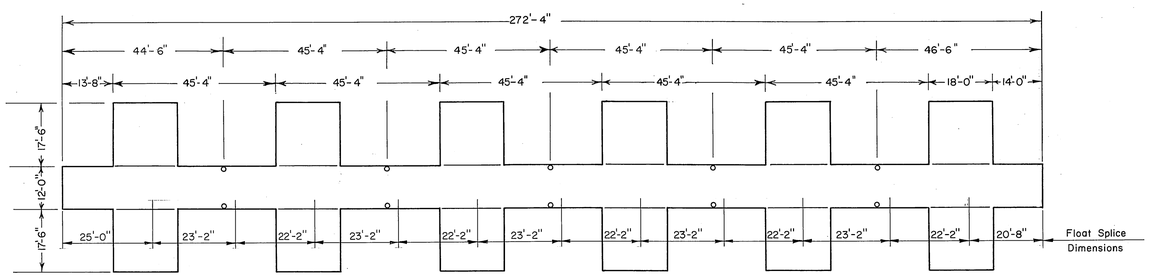


4' FLOAT SECTION
(Showing leveling flotation & concrete ballast)
Scale 1/2" to 1'-0"

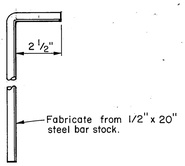


6' FLOAT SECTION
(Showing leveling flotation)

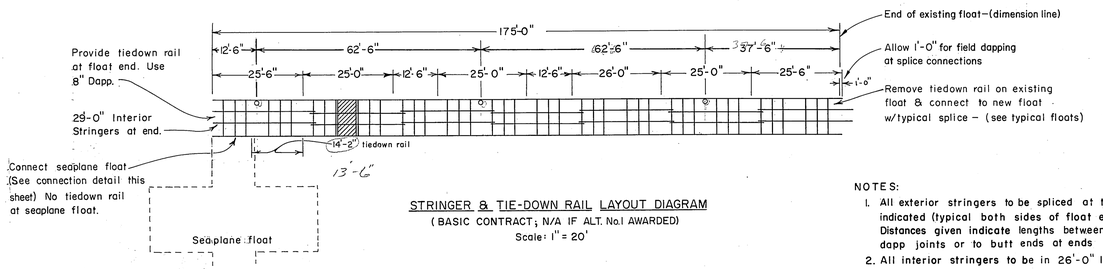
Leveling Note:
5" x 20" x 4'-6" leveling flotation shall be installed at the locations indicated on float plan layout sheet no.1. Place flotation between lower sill members with the outer edge bearing on siding members (cut side up). Pin flotation together with 1/2" x 20" "ell" pin (see detail, this sheet), 3 places, approx. equally spaced.



SEAPLANE FLOAT DIMENSIONS - PILE SPACING & SPLICE LAYOUT
Scale 1" to 20'-0"

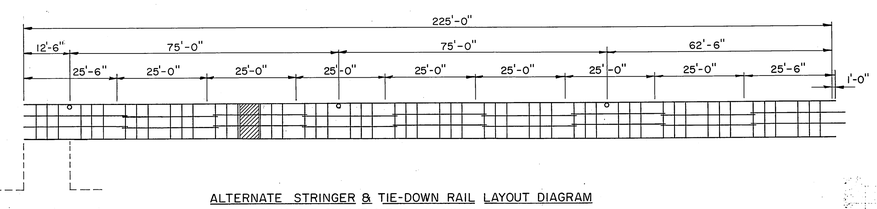


FLOTATION PIN DETAIL
Scale: 1 1/2" = 1'-0"



STRINGER & TIE-DOWN RAIL LAYOUT DIAGRAM
(BASIC CONTRACT; N/A IF ALT. No.1 AWARDED)
Scale: 1" = 20'

NOTES:
1. All exterior stringers to be spliced at the locations indicated (typical both sides of float except as indicated) Distances given indicate lengths between centers of dapp joints or to butt ends at ends of float.
2. All interior stringers to be in 26'-0" lengths except as noted.



ALTERNATE STRINGER & TIE-DOWN RAIL LAYOUT DIAGRAM
(APPLICABLE ONLY IF ALT. No.1 IS AWARDED)
Scale: 1" = 20'

For dimensions & notes, refer to basic layout except as noted.

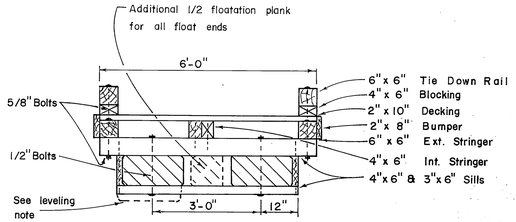
NO.	DATE	REVISION	BY

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

FLOAT AND PILING LAYOUT
MISC. CONSTRUCTION DETAILS

SCALE As Noted
DATE 1/3/68
PROJ. NO. 3-68180
APPROVED [signature] DIRECTOR
DRAWN BY
CHECKED BY DS

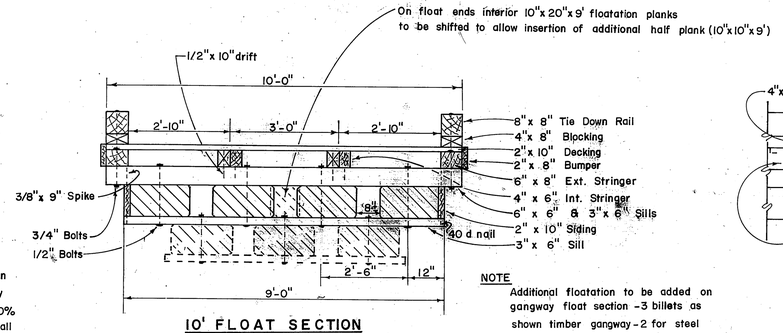
SHEET 2 OF 4 SHEETS



6' FLOAT SECTION

1/2" = 1'-0"

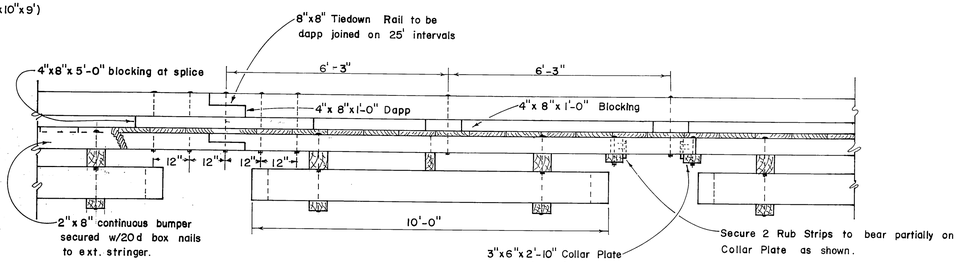
NOTE
6' Float construction shall conform to 10' float constr. except as noted.



10' FLOAT SECTION

1/2" = 1'-0"

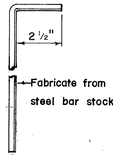
NOTE
Additional floatation to be added on gangway float section -3 billets as shown timber gangway-2 for steel gangway.



ELEVATION

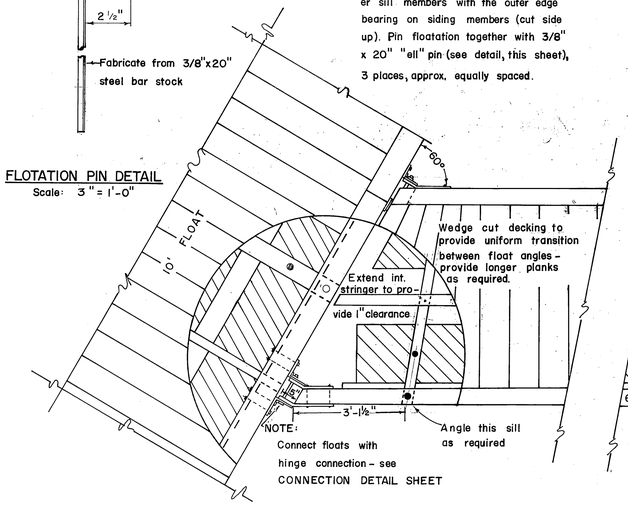
1/2" = 1'-0"

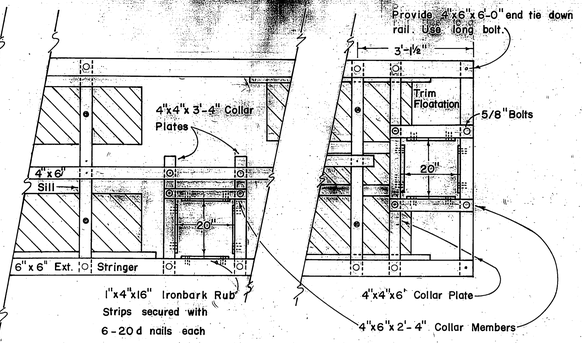
Leveling note
5" x 20" x 4' to 5' leveling floatation shall be installed as directed by the Engr. (required on approx. 20% of the stall floats including 6' stall floats). Place floatation between lower sill members with the outer edge bearing on siding members (cut side up). Pin floatation together with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



FLOTATION PIN DETAIL

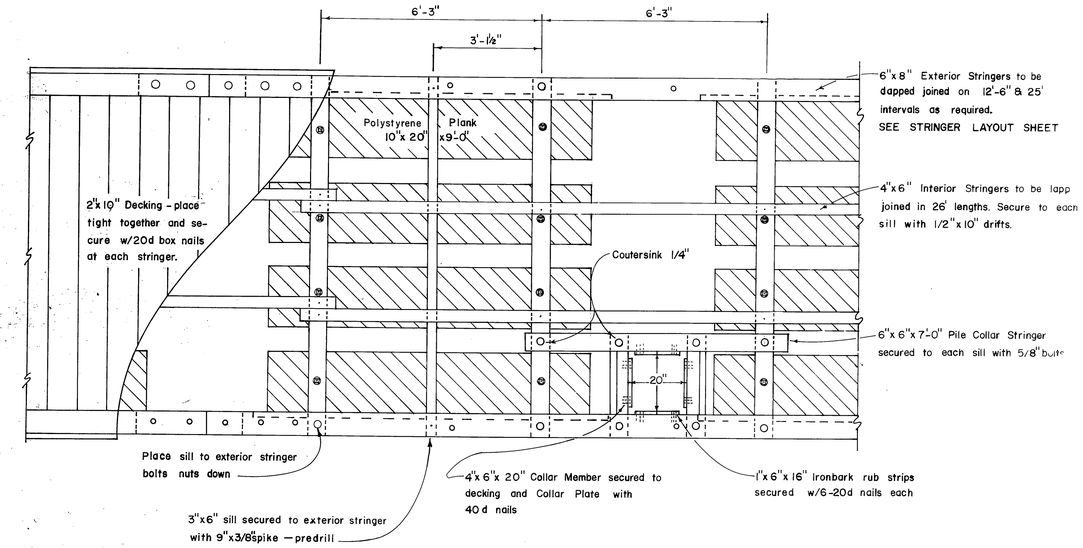
Scale: 3" = 1'-0"





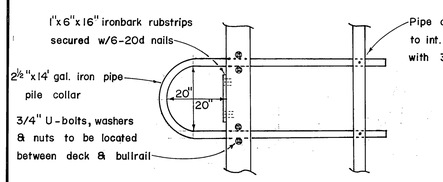
CONNECTION & COLLAR DETAIL

6' STALL FLOAT
1/2" = 1'-0"



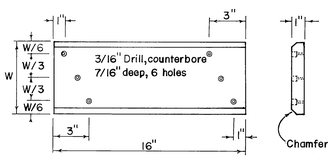
PLAN VIEW 10' FLOAT

1/2" = 1'-0"



PIPE PILE COLLAR DETAIL

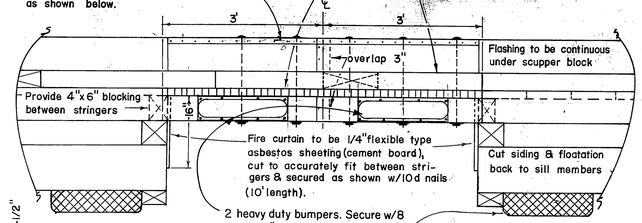
1/2" = 1'-0"



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

IRONBARK RUB STRIP

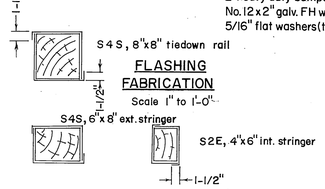
1" = 6"



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



FLASHING FABRICATION

Scale 1" to 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-I-E 1/8" off	12 lbs. ret.
2" x 10" Siding	2" x 10½"	" "
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-I-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).

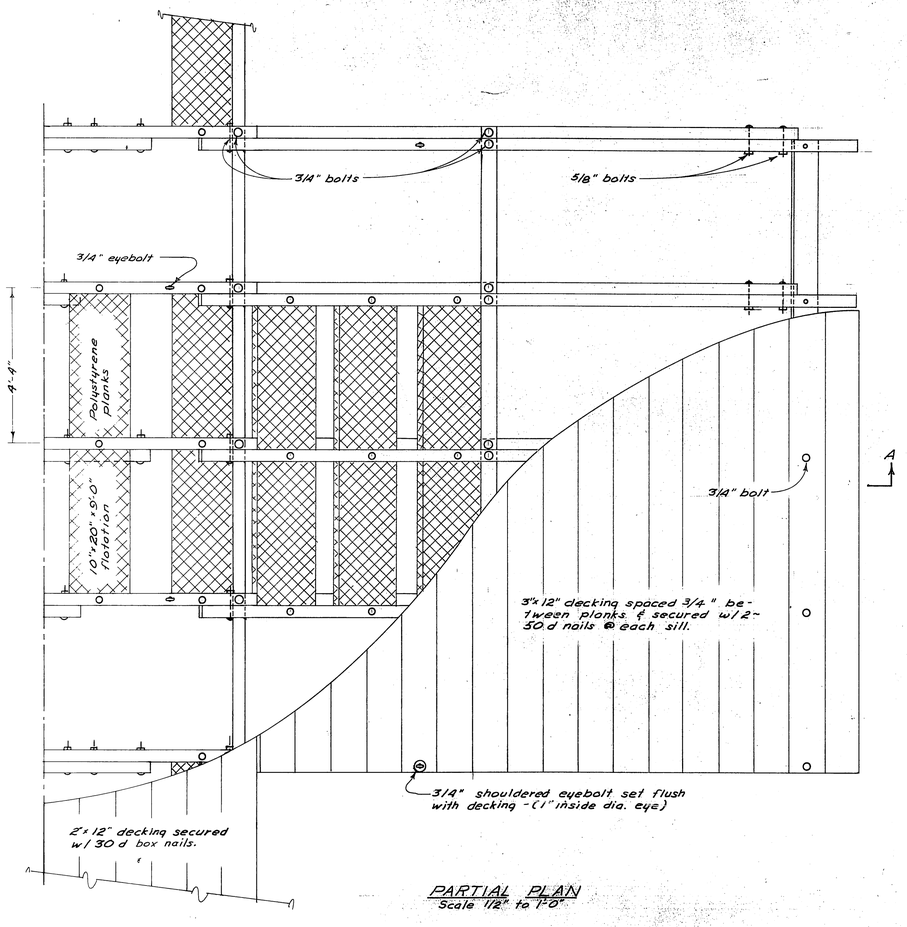
STATE OF ALASKA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF WATER AND HARBORS

TYPICAL FLOATS

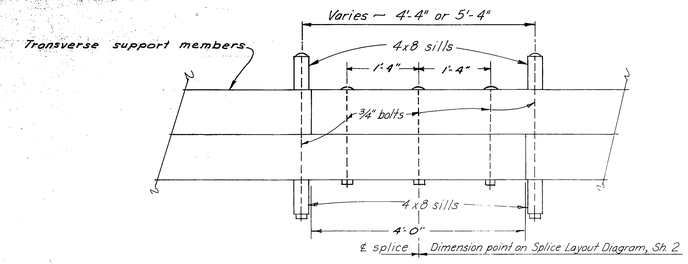
SCALE As Shown
DATE April 1968
PROJ. NO.
APPROVED DON STATTER
DIRECTOR

DESIGNED BY RPH-DS DRAWN BY MH CHECKED BY DS

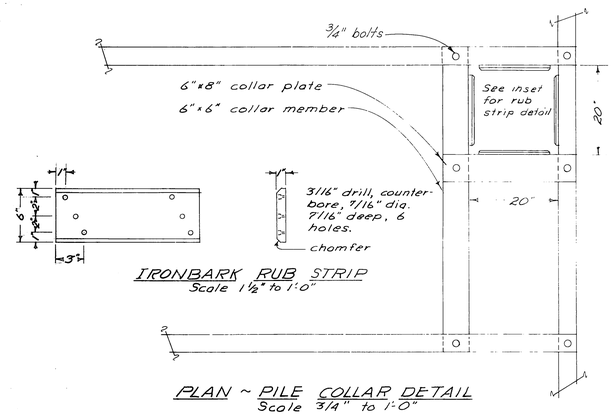
SHEET of SHEETS



PARTIAL PLAN
Scale 1/2" to 1'-0"



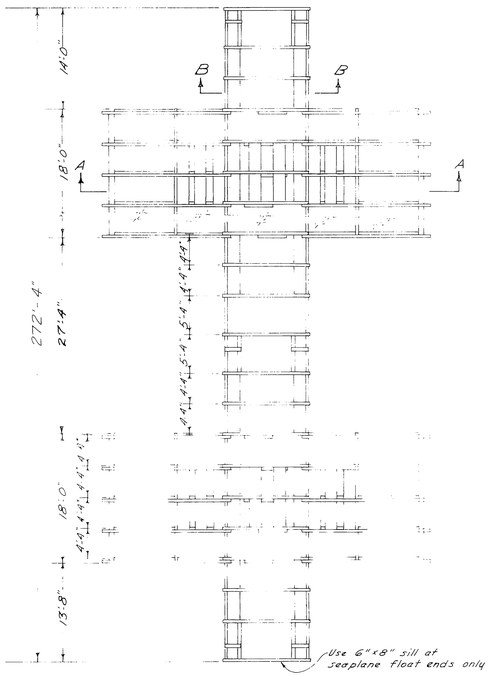
SPLICE DETAIL
Scale 3/4" to 1'-0"



IRONBARK RUB STRIP
Scale 1 1/2" to 1'-0"

PLAN ~ PILE COLLAR DETAIL
Scale 3/4" to 1'-0"

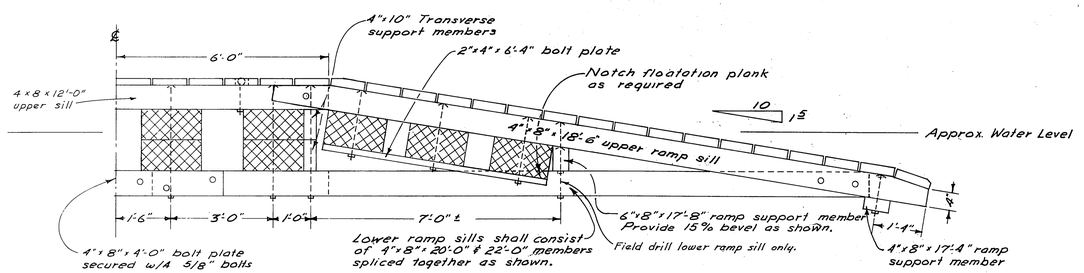
Notes:
All upper sill bolt holes facing decking shall be countersunk 1/4" ℄ of such diameter as to accomodate the appropriate size economy bolt head.
5/8" drill all sill bolt holes securing flotation planks only.
All unused pile collars shall be decked-over.



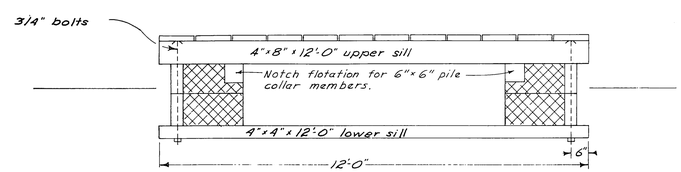
PLAN
Scale 1" to 10'

NOTES:
1. Piling shall be class A creosote piling treated to 12 lb. retention.
2. All timber material shall be construction grade Douglas fir, creosote pressure treated to 12 lb. retention.
3. All pressure treated creosote material shall be cut to size prior to treatment.
4. Lower sills to be rough; decking S1S2E; 4x10 transverse support members S1E 1/8" off nom. dim.; all other S2E.
5. All bolt holes shall be drilled prior to treatment, except that ramp sills may be field drilled.
6. All bolt holes to be drilled true size, except as noted. All drift holes to be 1/16" undersize. All drill holes shall be treated with hot creosote oil.
7. Countersink all bolt heads facing decking.
8. All hardware to be hot dip galvanized. All bolts to be of the mushroom headed type.
9. A malleable washer shall be placed between all nut & wood surfaces.
10. Floats will be connected using typical connection detail.

Bolts securing floatation planks shall be 1/2"
All others 5/8" or 3/4" as specified.



HALF SECTION A-A
Scale 1/2" to 1'-0"



FULL SECTION B-B
Scale 1/2" to 1'-0"

NO	DATE	REVISION	BY

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

TYPICAL SEAPLANE TIE-DOWN FLOAT

SCALE As shown
DATE June 13, '64
PROJ. NO.
APPROVED
SURVEYED BY D.S. DRAWN BY B. CHECKED BY D.S.

SHEET No 4 of 4 SHEETS