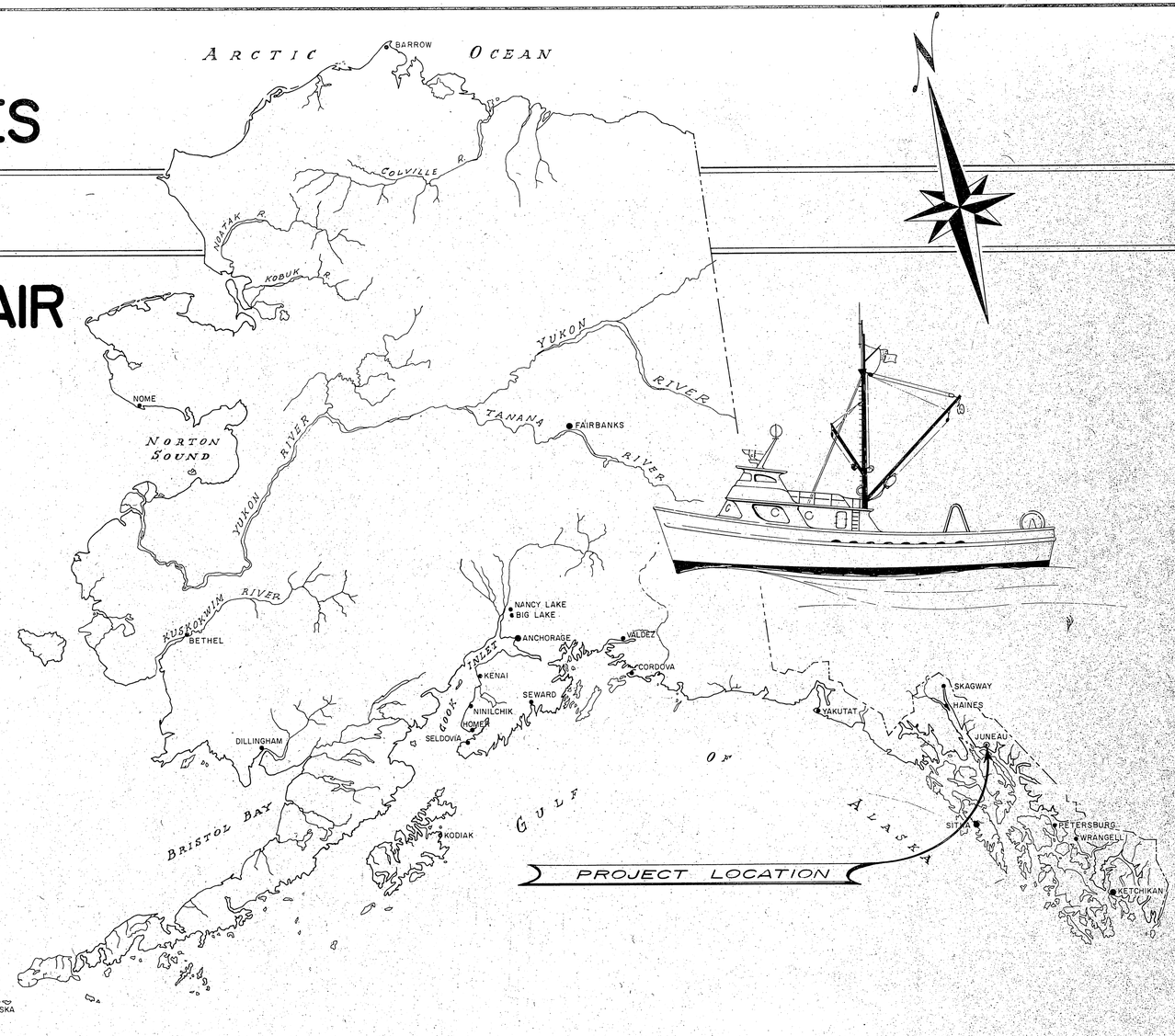
# JUNEAU AURORA HARBOR FACILITIES

PROJECT NO. 3-72180

# JUNEAU HARRIS HARBOR GRID REPAIR

PROJECT NO. 3-72145

SEE AURORA FOR MYLARS




## WORK SUMMARY

*Items of work include: Pulling and redriving 10 float piles and relocating the existing 12 stall seaplane float within Aurora Harbor. Furnishing and installing 9425 sq. ft. of concrete mooring floats and furnishing and installing 16 piles (1024 L. F.) in Aurora Harbor. Repairing the grid in Harris Harbor.*

STATE OF ALASKA — DEPARTMENT OF PUBLIC WORKS

**DIVISION OF WATER & HARBORS**

INDEX TO SHEETS



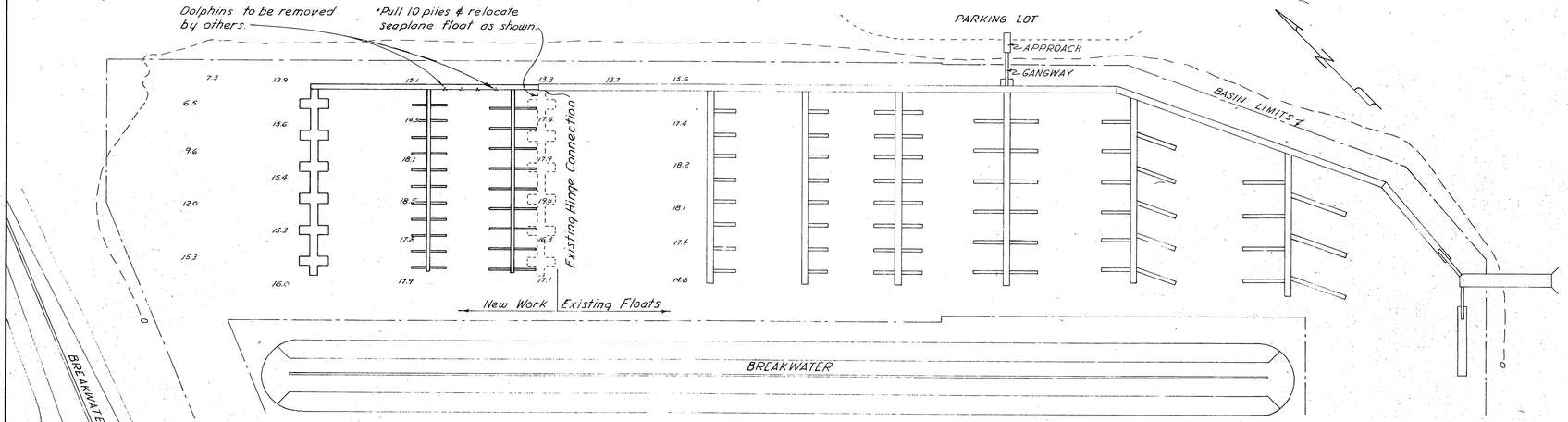
APPROVED

Gray A. Kaldor

acting COMMISSIONER

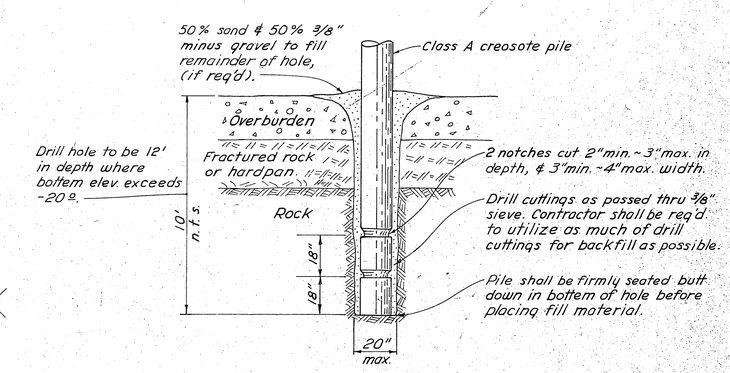
DATE 8-3-71

SHEET 1 OF 6




AURORA HARBOR SITE PLAN

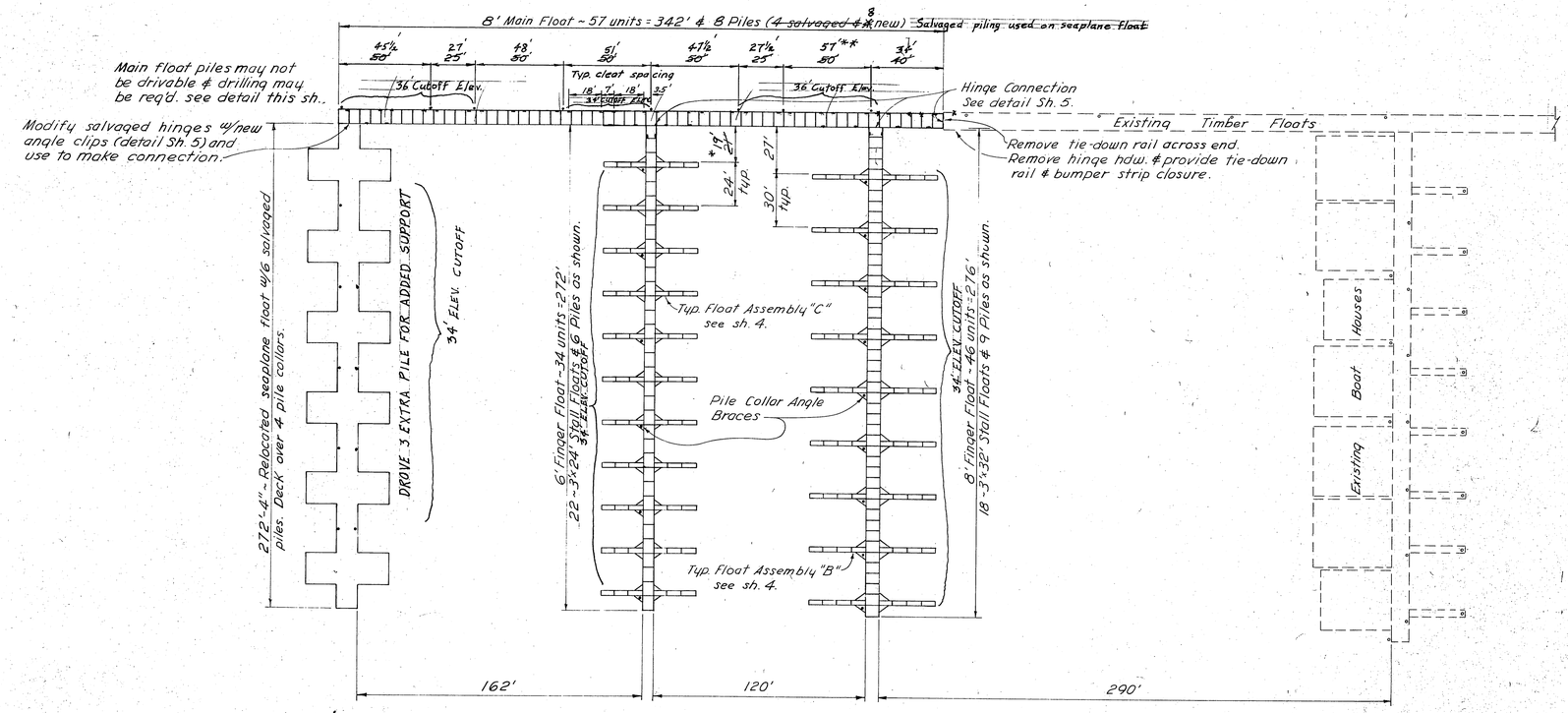
Scale: 1" = 100'
Soundings: Ft. below M.L.L.W.




TYPICAL DRILL HOLE & PILE INSTALLATION

Scale 3/8" = 1'-0"

NO DRILLING REQUIRED

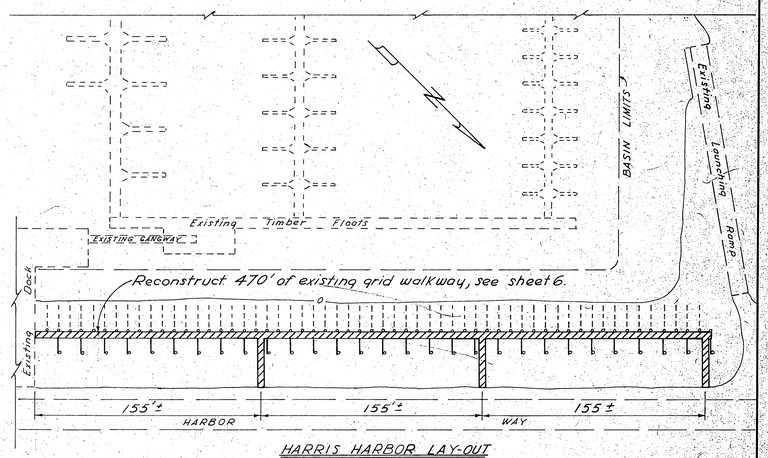



* Moved 2' so 2 thru bolts would connect angle iron connector with pile collar hole to main float instead of other one

** This pile moved 6' to miss rock at original location - rest moved so 4 thru bolts would connect pile collars to main float

AURORA HARBOR LAYOUT

Scale: 1" = 40'




HARRIS HARBOR LAY-OUT

Scale: 1" = 50'

NOTES: 1. Drive float piles butt down to 15' penetration or refusal.
2. Pile cut-off Elev. +32 ø.
3. Provide 24 - 10" galv. mall. iron 2¼ lb. cleats spaced approx. 20' o.c. along both sides of main float.

AS BUILT

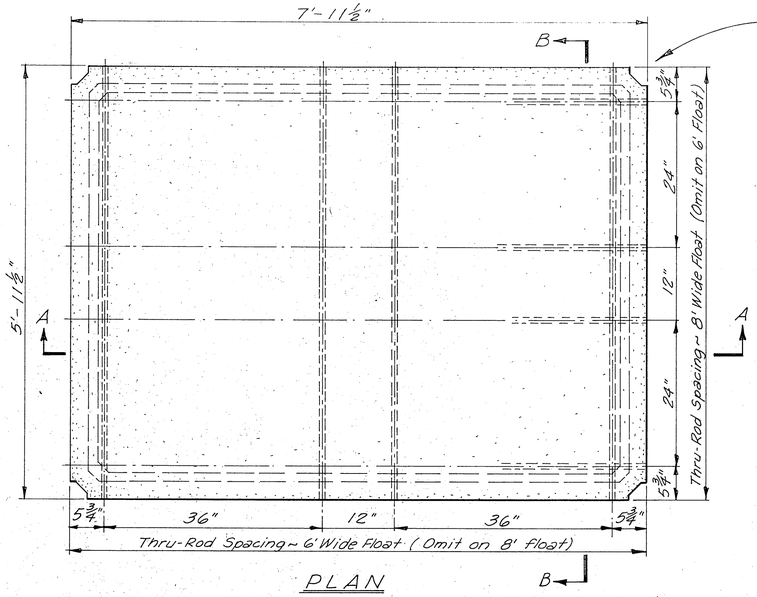
Revised 3-22-72 CHANGE ORDER NO. 2

DO NOT SCALE THIS DRAWING – USE DIMENSIONS

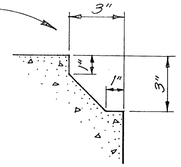
STATE OF ALASKA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF WATER AND HARBORS

# AURORA & HARRIS HARBORS LAY-OUT

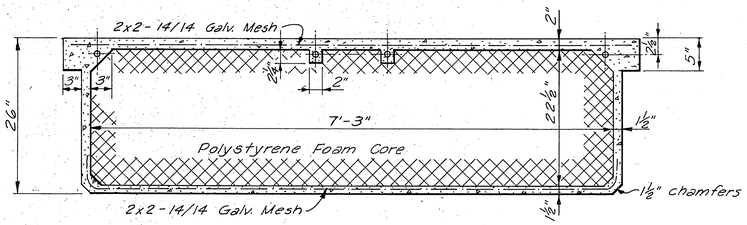
| | | |
|---|---|---|
| SCALE As Noted | SURVEYED | APPROVED |
| DESIGNED | DRAWN E.L.S. | DON STATTER |
| CHECKED | DATE 6/15/71 | DIRECTOR |
| PROJECT NUMBER 3-72180 REVISED | SHEET 2 OF 6 | |



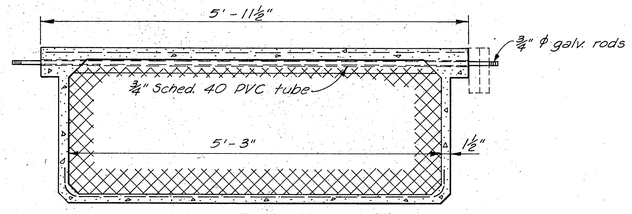

PLAN



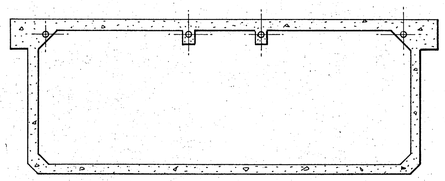

Block out all 4 corners as shown.




SECTION A-A

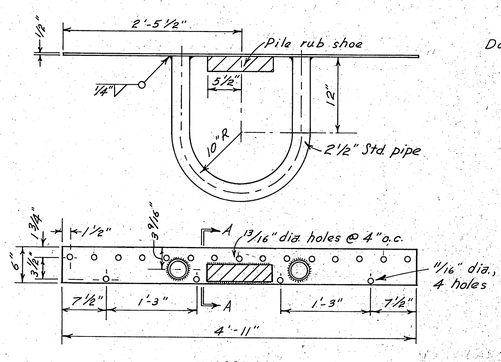



SECTION B-B

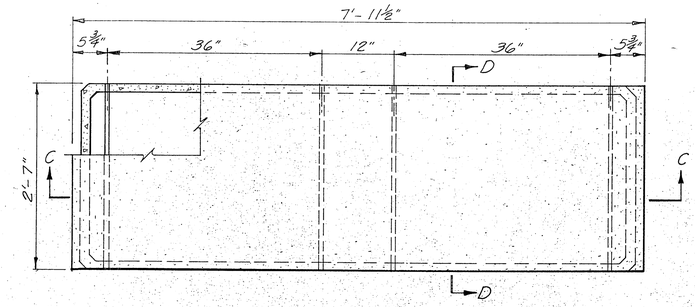


ALT. SECTION B-B
(8'-WIDE FLOAT)

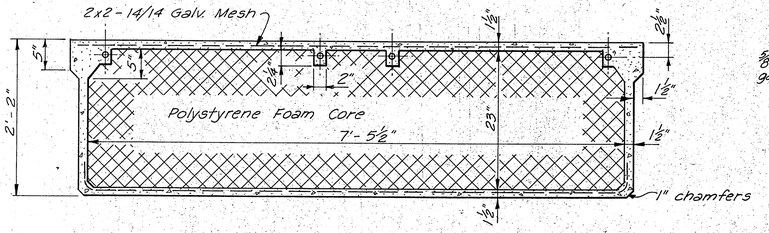
6' x 8' FLOAT
1" = 1'-0"



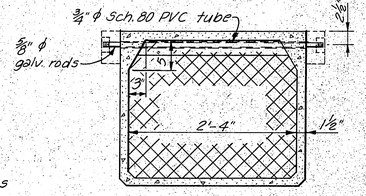

ASSEMBLY
1"=1'-0"




PLAN

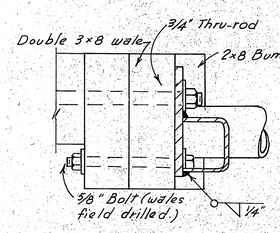



SECTION C-C

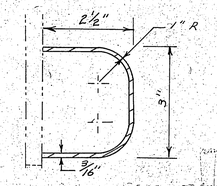



SECTION D-D

3' x 8' FLOAT DETAILS
1" = 1'-0"




SECTION A-A
3"=1'-0"




PILE RUB SHOE
half scale

OUTSIDE PILE COLLAR

NOTES:

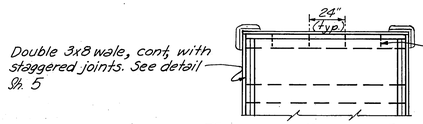
1. Floats to be cast lightweight concrete 100#/ft³ max. with min. compr. strength of 3000 PSI @ 7 days.
2. Inner core to be 1.1#/ft³ polystyrene foam per ASTM D-1621-59T.
3. Portland cement shall comply with ASTM C-150 for Type III.
4. Expanded shale shall comply with ASTM C-330.
5. Galv. wire mesh shall comply with ASTM A-185.
6. Free board shall be 15" with all dead load applied. Dead load to consist of thru rods, wales, connection hinges & plates, pile collars, electrical conduit, outlet boxes and light standards, and ¾" galv. steel waterline with hose bibs. Utilities will be placed to balance float.

DO NOT SCALE THIS DRAWING – USE DIMENSIONS

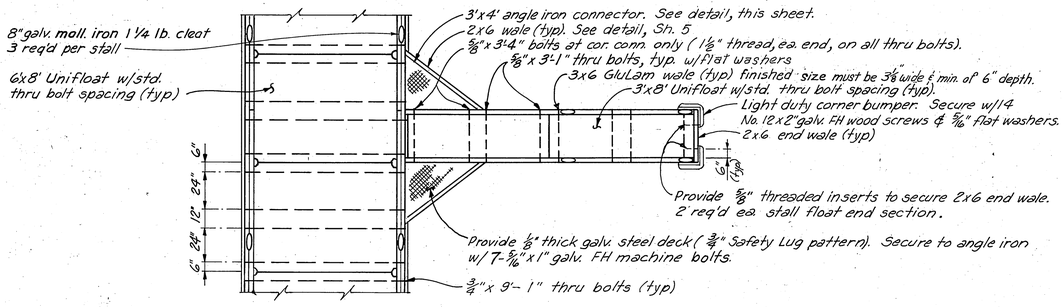
STATE OF ALASKA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF WATER AND HARBORS

# OUTSIDE PILE COLLAR & CONCRETE FLOAT DETAILS

| | | |
|---|---|---|
| SCALE As Shown | SURVEYED | APPROVED |
| DESIGNED | DRAWN CD&JET | DON STATTER |
| CHECKED | DATE | DIRECTOR |
| PROJECT NUMBER Juneau 3-72180 | | SHEET 3 OF 6 |

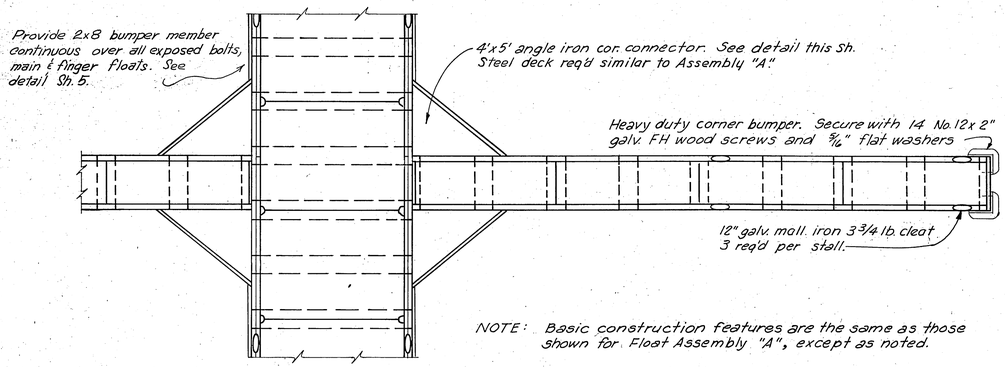



TYPICAL FLOAT END DETAIL



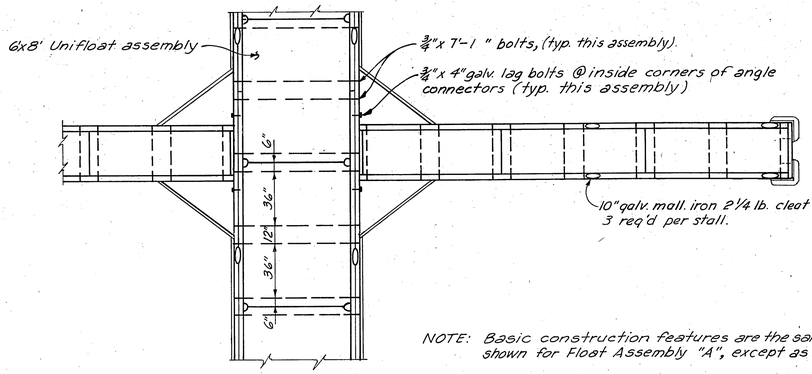

TYPICAL FLOAT ASSEMBLY "A"

NOTE: 17' STALL N.I.C.




NOTE: Basic construction features are the same as those shown for Float Assembly "A", except as noted.

TYPICAL FLOAT ASSEMBLY "B"

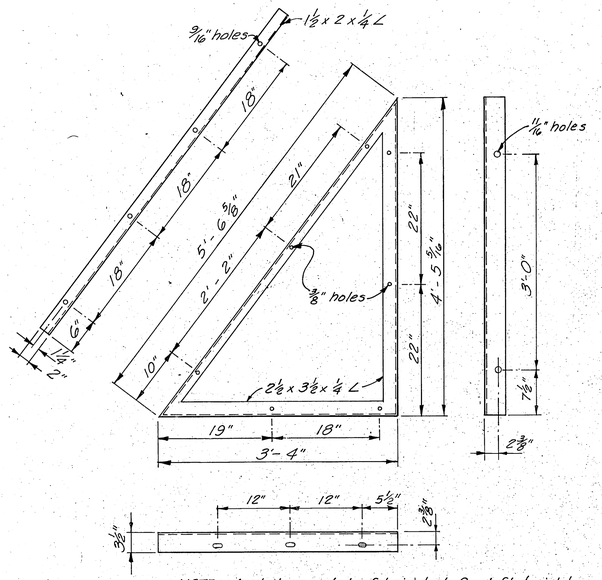



NOTE: Basic construction features are the same as those shown for Float Assembly "A", except as noted.

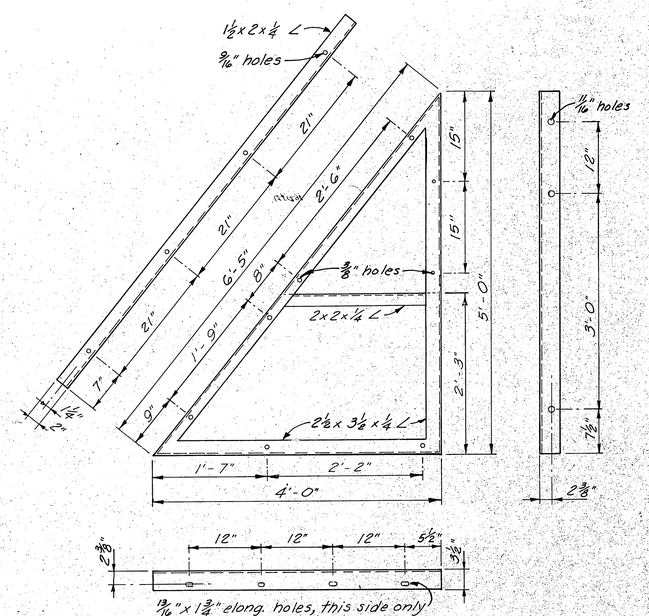
TYPICAL FLOAT ASSEMBLY "C"

## FLOAT ASSEMBLY DETAILS

1/4" = 1'-0"



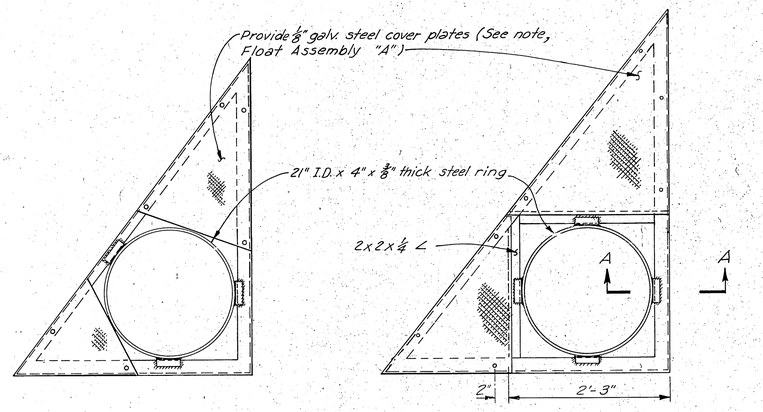

NOTE: Angle braces to be fabricated for left & right sides. Left side shown.




13/16" x 1 3/4" elong. holes, this side only (Use lock washers on all thru bolts at angle connections).

STALL FLOAT ANGLE BRACES

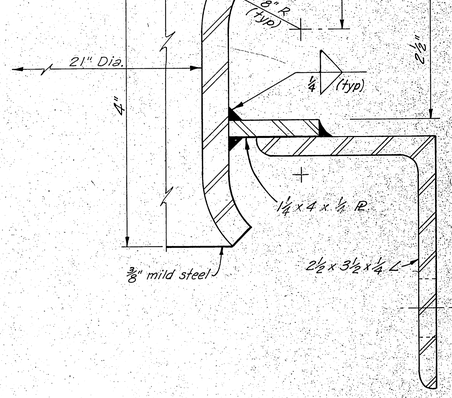
1" = 1'-0"




Note: All materials, dimensions, fasteners, etc. shall conform to those shown in Stall Float Angle Brace Detail, except as noted.

PILE COLLAR ANGLE BRACES

1" = 1'-0"




SECTION A-A

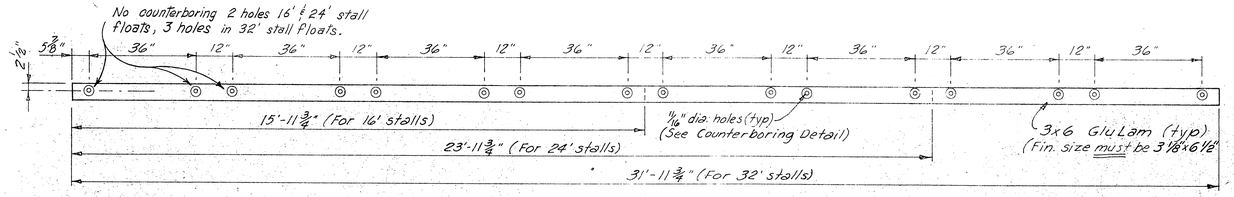
Full Size

DO NOT SCALE THIS DRAWING – USE DIMENSIONS

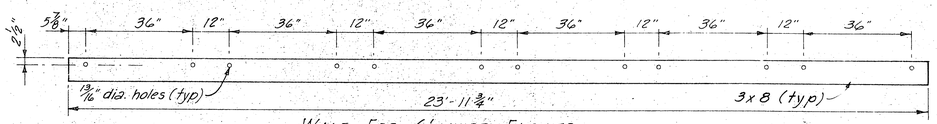
STATE OF ALASKA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF WATER AND HARBORS

# CONCRETE FLOATS
# TYPICAL ASSEMBLIES & MISC. DETAILS

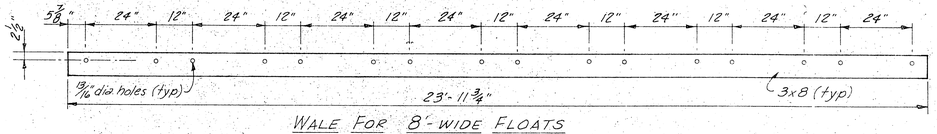
| | | |
|---|---|---|
| SCALE As shown | SURVEYED — | APPROVED |
| DESIGNED | DRAWN JET | Don Statter |
| CHECKED P.S. Miller P.E. | DATE 3-10-70 | DIRECTOR |
| PROJECT NUMBER 3-72180 | | SHEET 4 OF 6 |




STALL FLOAT WALE




WALE FOR 6'-WIDE FLOATS

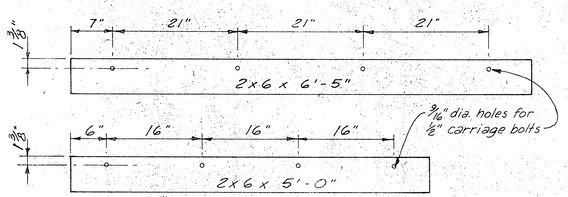



WALE FOR 8'-WIDE FLOATS

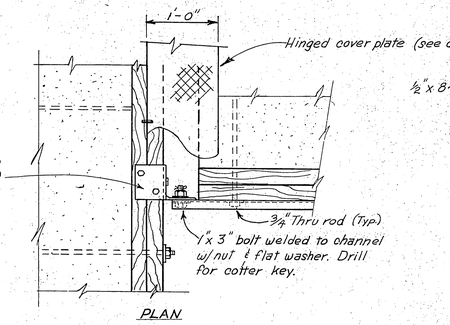
Notes:
1. All wood to be constr. grade Douglas fir, pressure treated w/0.5 lb. Penta-chlorophenol after fabrication.
2. Wales for Main & Finger floats to be 3x8, S45, doubled as shown. All butt joints to be made at center of float section.
3. Counterboring req'd for wales on stall floats, and 2x8 bumpers on gangway float and finger float.
4. Provide odd size lengths at float ends & angles as req'd.
5. All field cuts & drill holes to be treated w/ penta. before final assembly.

NOTE: ALL HOLES MUST BE IN STRAIGHT LINE.

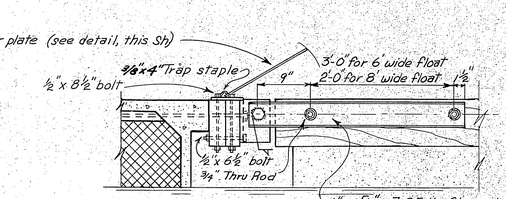
## TYPICAL WALES
½" = 1'-0"




ANGLE CONNECTOR WALES
1" = 1'-0"

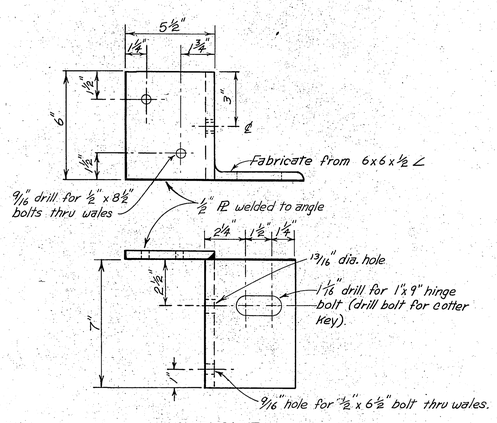



PLAN

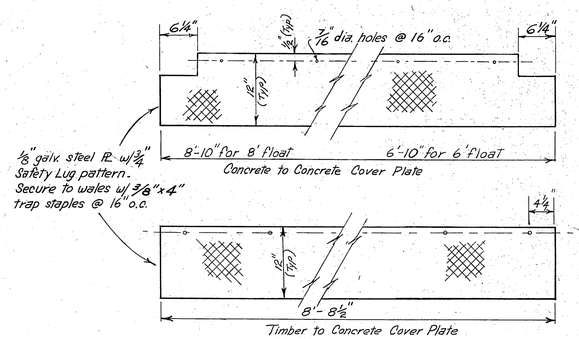



ELEVATION

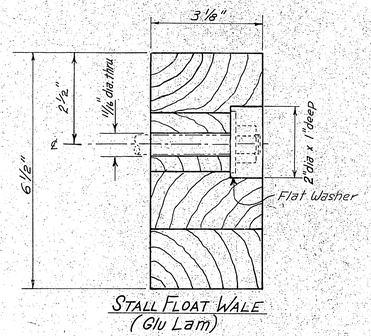
TYPICAL RIGHT ANGLE CONNECTION
1" = 1'-0"



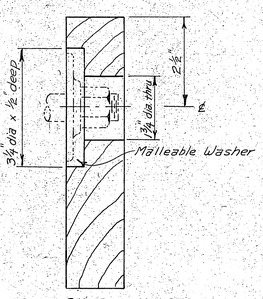

ANGLE CLIP
3" = 1'-0"




COVER PLATE DETAILS
Scale: 1" = 1'-0"

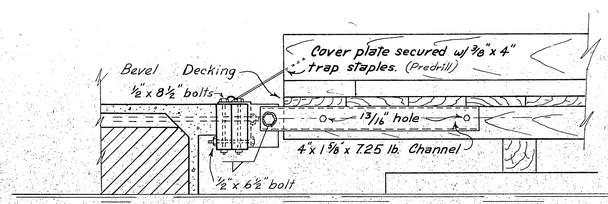



STALL FLOAT WALE
(Glu Lam)

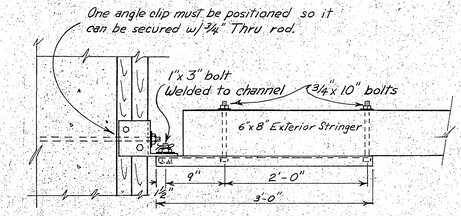



2x8 BUMPER MEMBER

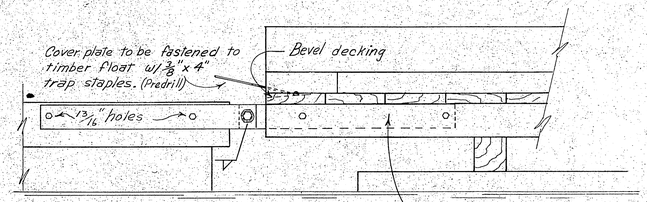
TYPICAL COUNTERBORING DETAIL
Half Size



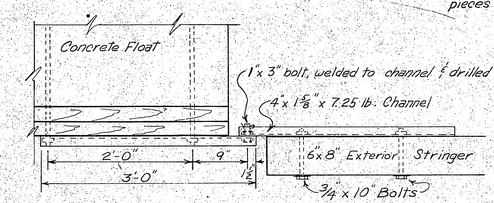

ELEVATION
1" = 1'-0"




RIGHT ANGLE CONNECTION - TIMBER TO CONCRETE
1" = 1'-0"




ELEVATION
1" = 1'-0"




END TO END CONNECTION - TIMBER TO CONCRETE
1" = 1'-0"

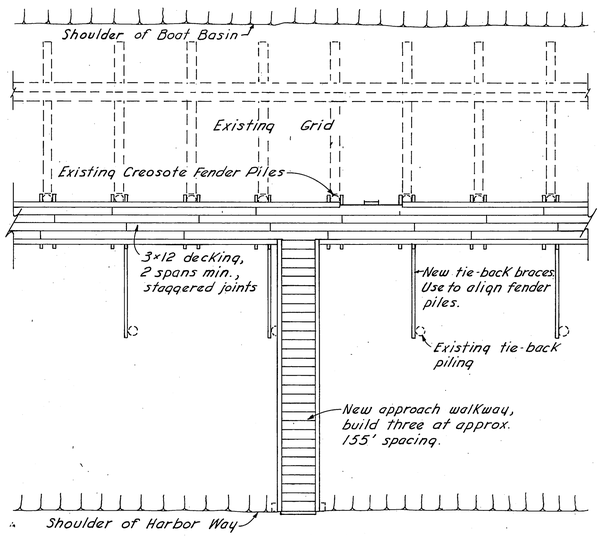
DO NOT SCALE THIS DRAWING - USE DIMENSIONS

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

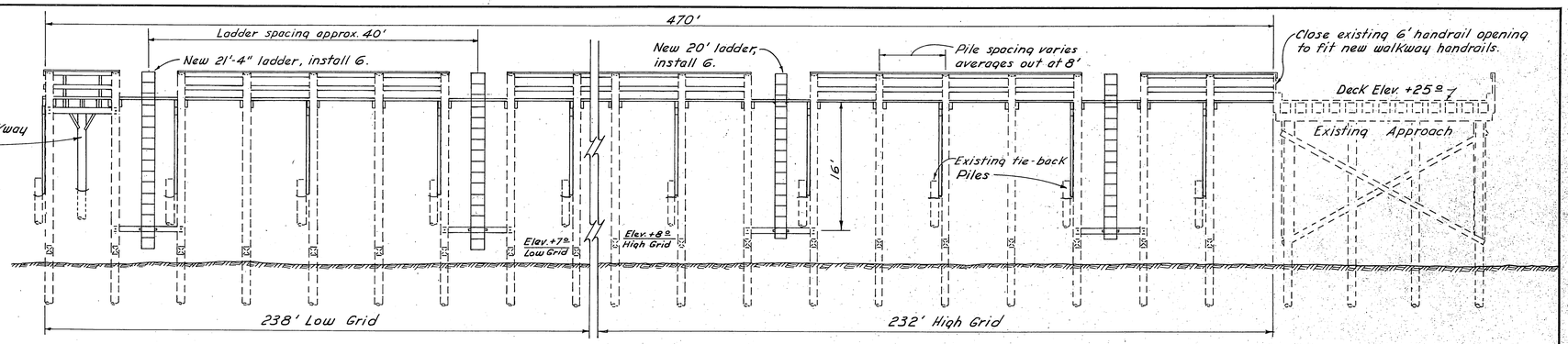
# CONCRETE FLOATS STANDARD DETAILS

| | | |
|---|---|---|
| SCALE As Shown | SURVEYED | APPROVED |
| DESIGNED | DRAWN C.E.D. | DON STATTER |
| CHECKED | DATE 7/15/71 | DIRECTOR |
| PROJECT NUMBER 3-72180 | SHEET 5 OF 6 | |

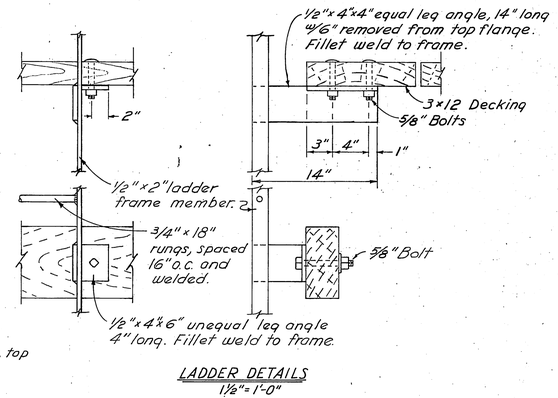
K&E 19 1153 1-71 44030•




PARTIAL PLAN
1/8" = 1'-0"



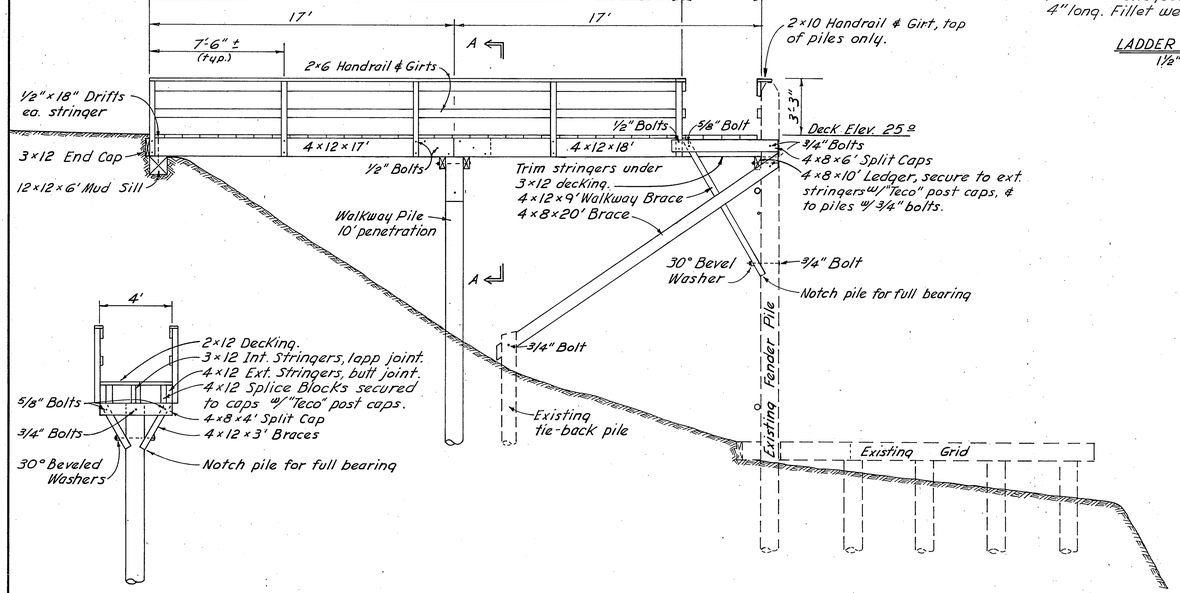

ELEVATION
1/8" = 1'-0"




LADDER DETAILS
1/2" = 1'-0"

| MATERIALS | | |
|---|---|---|
| Item | Dressing | Treatment |
| Piling | Class A | 12#Creo. |
| Mud Sills | Rough | " |
| Braces | " | " |
| Ladder Supp. | S4S | 8#Creo. |
| Split Caps | " | " |
| Stringers | " | " |
| Decking | S1S2E | " |
| H.R. Posts | S4S | " |
| Handrail | " | 0.5#Penta |
| Girts | " | " |

NOTES:
1. Remove & dispose of existing 4×4 handrail, 6×8 ledger strip, 3/4" fire alarm conduit, 1" water line, tie-back brace stubs, wooden ladders, and fastenings. Save 1" electrical conduit.
2. 3" decking secured w/ 2-60d nails ea. cap.
3. 2" decking secured w/ 2-40d nails ea. stringer.
4. Handrails & girts secured to posts & piles w/ 2-20d & each other w/ 16d nails 32" o.c.
5. All field cuts & holes in creosote material shall be treated w/ hot creosote oil before final assembly.
6. Penta. treated material shall be treated w/ penta. solution where field cut or drilled.







A-A

SECTION
1/4" = 1'-0"

DO NOT SCALE THIS DRAWING — USE DIMENSIONS

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

HARRIS HARBOR

GRID WALKWAY DETAILS

| | | |
|---|---|---|
| SCALE AS SHOWN | SURVEYED | APPROVED |
| DESIGNED | DRAWN E.L.S. | DON STATTER |
| CHECKED | DATE 11/22/71 | DIRECTOR |
| PROJECT NUMBER 3-72180 | SHEET 6 OF 6 | |