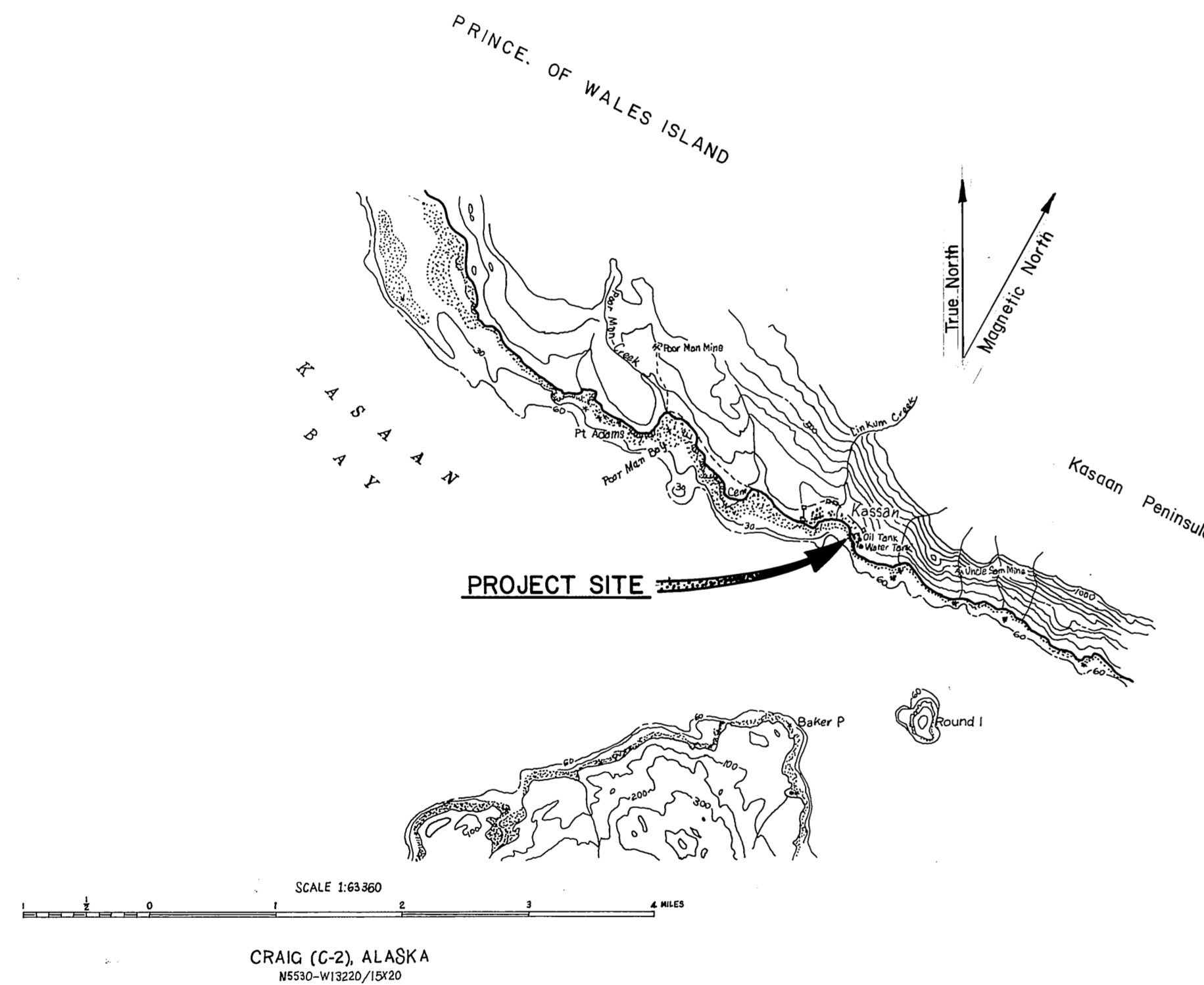


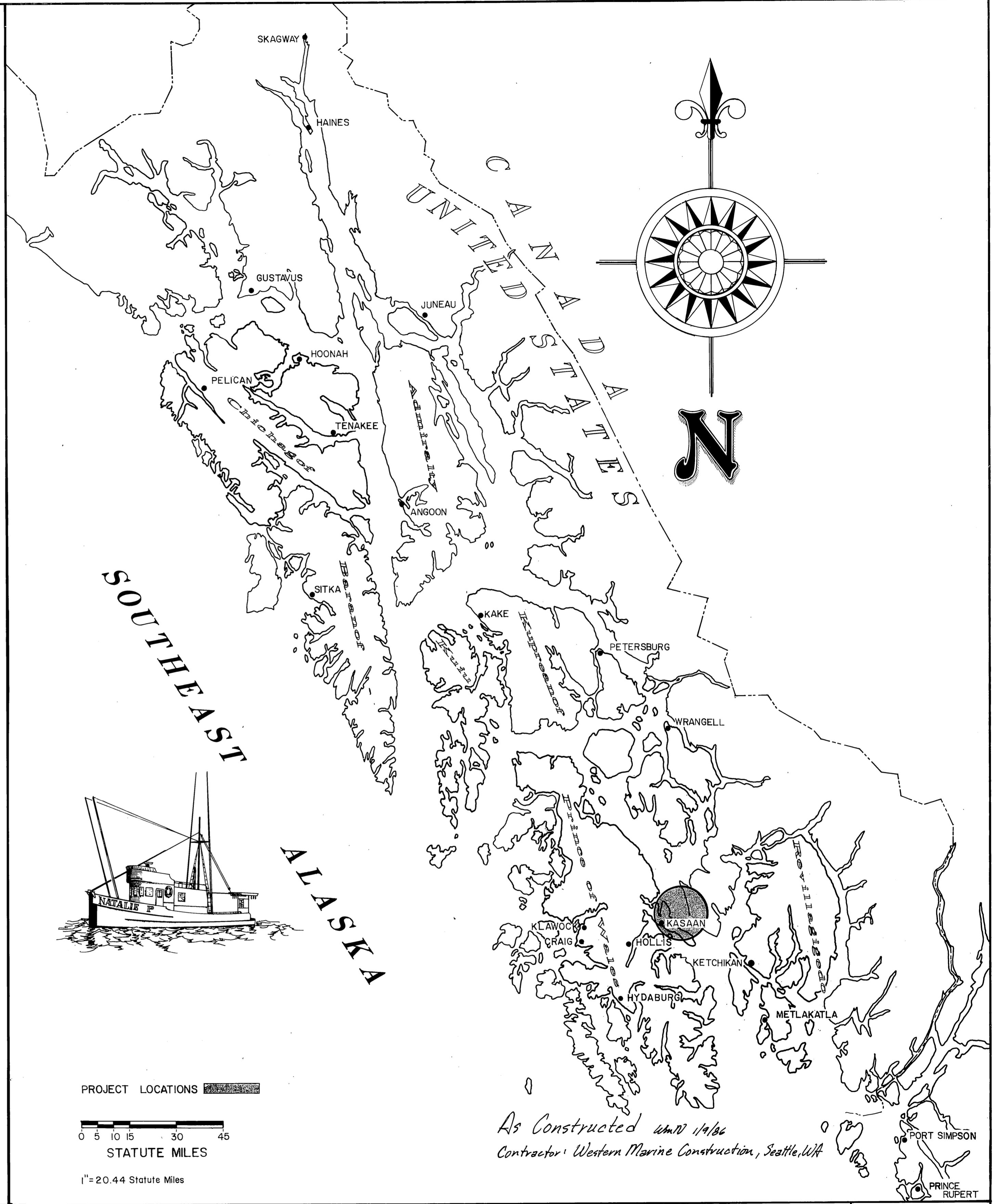
KASAAN BREAKWATER FLOATS

PROJECT NO. K-3111



WORK SUMMARY

- MAJOR ITEMS of WORK for THIS PROJECT INCLUDE the FOLLOWING:
1. Furnish and drive 3 timber float piles.
 2. Furnish and drive 4, 12 3/4" x 3/8" wall steel piles (2 installed, 2 stored).
 3. Furnish and drive 12, 24" x 1/2" wall steel piles (12 stored).
 4. Construct and install 3330 sq. ft. of post tensioned concrete breakwater floats.
 5. Construct and install 1250 sq. ft. of timber main floats.
 6. Alter and relocate existing seaplane float.
 7. Remove and dispose of 4 existing timber piles and a 6' x 62'-6" existing timber float.
 8. Supplemental work to include construction and installation of 4, 2'-4 3/4" x 23'-0" timber stall floats; if funding permits.



STATE
OF
ALASKA

DEPARTMENT OF TRANSPORTATION
& PUBLIC FACILITIES
S.E. REGION DESIGN & CONSTRUCTION

APPROVED

Richard Meyer 4-8-85
Director S.E. D.&C. Date

Recommend
for Approval

Steven O. Bradford 4-8-85
Group Design Chief Date

SHEET 1 of 14

| | |
|---|--|
| 1. Title Sheet | 9. P.T.B.F., Typical Section & INT. Pile Collar |
| 2. Project Layout | 10. P.T.B.F., End Wale & Interior Connections |
| 3. 10' Main Timber Float Details | 11. P.T.B.F., Tiedown, Wale, & Fender Connection Details |
| 4. Supplemental A, Timber Stall Float Details | 12. P.T.B.F., Tiedown Rail, & Wale Layout, Transition #. |
| 5. Seaplane Float Details | 13. P.T.B.F., Tendon End Anchorages & Bearing Pads. |
| 6. Timber Float Pile Collar & Hinge Connection Detail | 14. Rebar Schedule |
| 7. Float Layout | |
| 8. P.T.B.F., Framing, Slab Plan, & Long. Section. | |

PROJECT &
FILE NO.
KASAAN
BREAKWATER
FLOATS;
Project NO. K-3111

GENERAL NOTES:

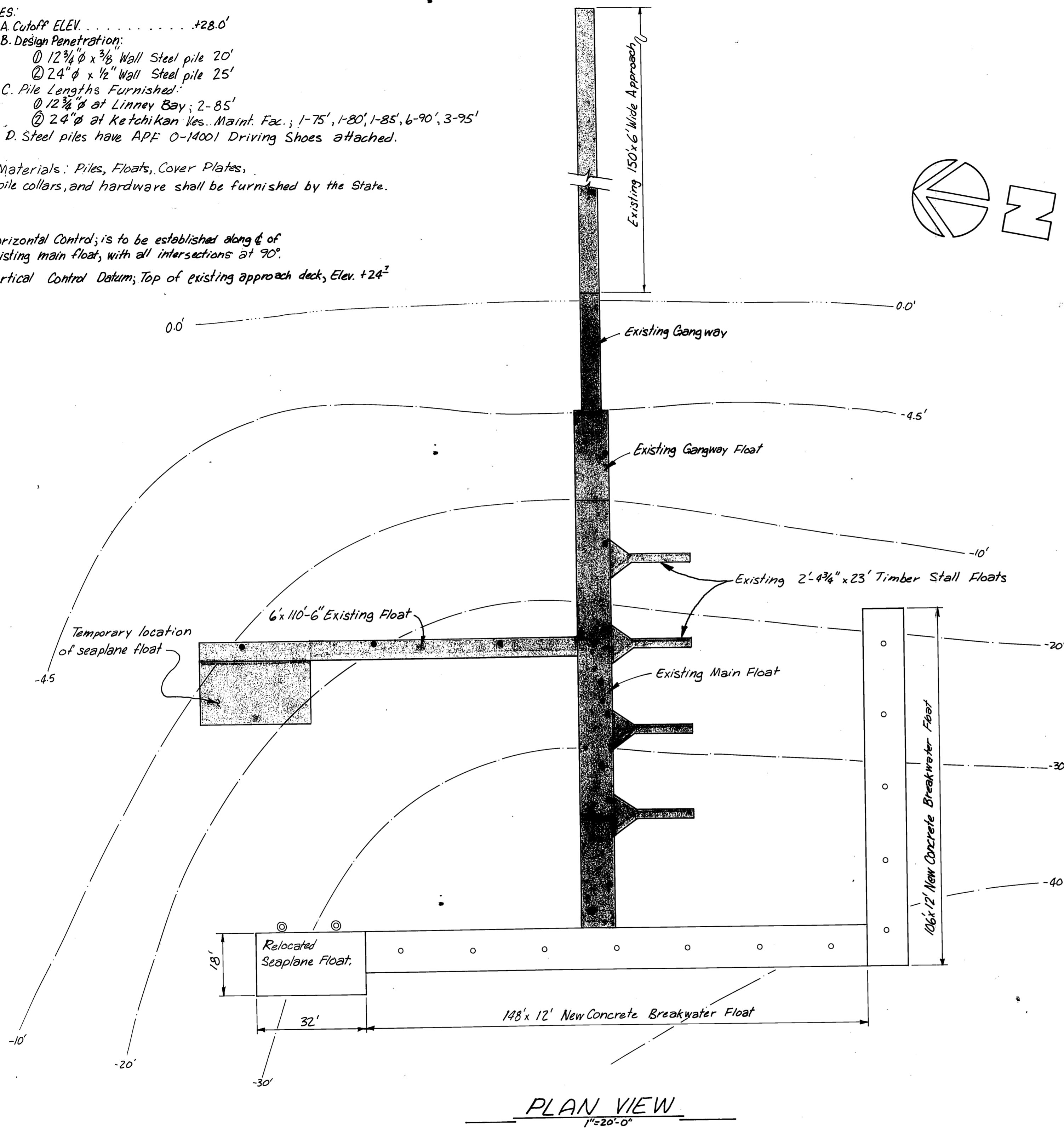
1. PILES:

- A. Cutoff ELEV. +28.0'
- B. Design Penetration:
 - ① 12 3/4" ϕ x 3/8" Wall Steel pile 20'
 - ② 24" ϕ x 1/2" Wall Steel pile 25'
- C. Pile Lengths Furnished:
 - ① 12 3/4" ϕ at Linney Bay; 2-85'
 - ② 24" ϕ at Ketchikan Yes. Maint. Fac.; 1-75', 1-80', 1-85', 6-90', 3-95'
- D. Steel piles have APF 0-14001 Driving Shoes attached.

2. Materials: Piles, Floats, Cover Plates, pile collars, and hardware shall be furnished by the State.

3. Horizontal Control; is to be established along ϕ of existing main float, with all intersections at 90°.

4. Vertical Control Datum; Top of existing approach deck, Elev. +24'

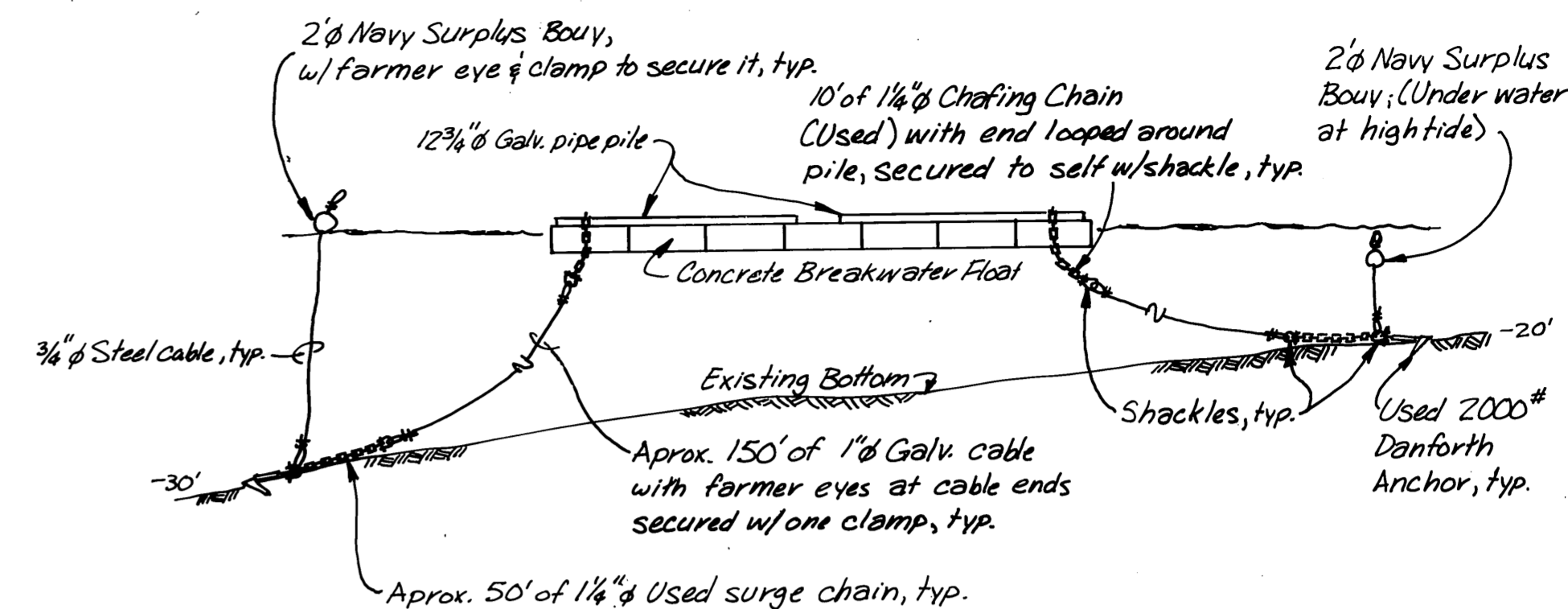


NEW HARBOR FACILITY

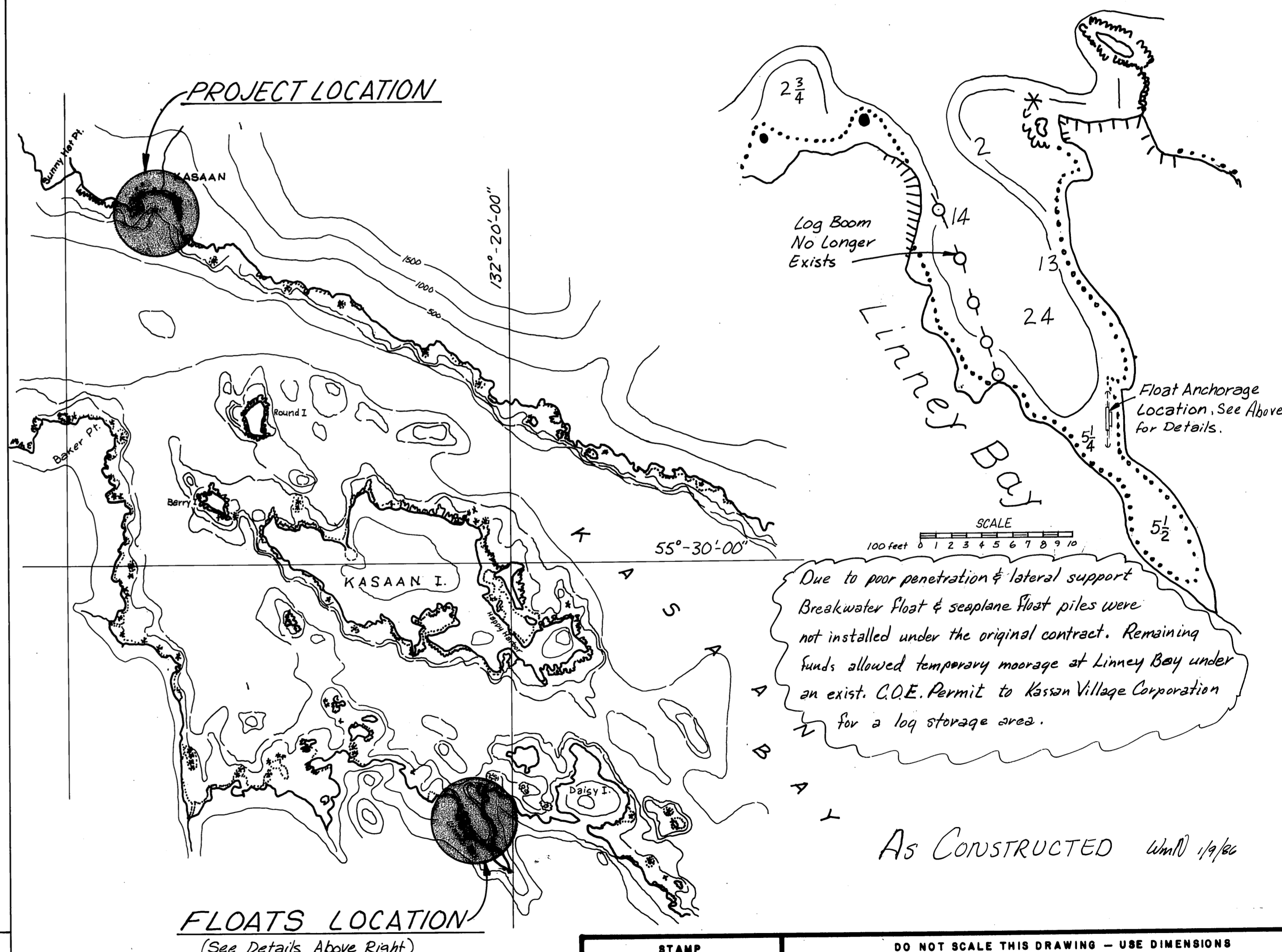
KEY TO PILE AND FLOAT SYMBOLS

| | |
|---|--|
| • | Existing Piles to remain (2) |
| ⊙ | New 12 3/4" ϕ x 3/8" wall steel piles to be installed (2) |
| ○ | New 24" ϕ x 1/2" wall steel piles to be installed (12) |
| ▭ | Floats to be installed |
| ▭ | Existing Structures |

Taken From NOAA chart #17426
"KASAN BAY PRINCE OF WALES ISLAND"

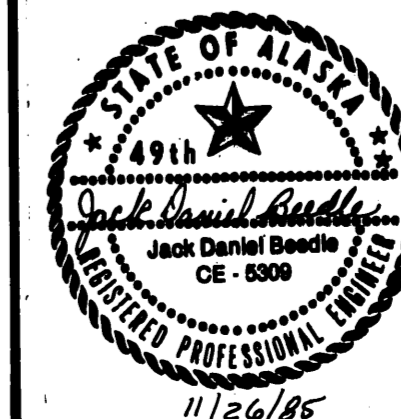


TEMPORARY MOORING PROFILE
N.T.S.



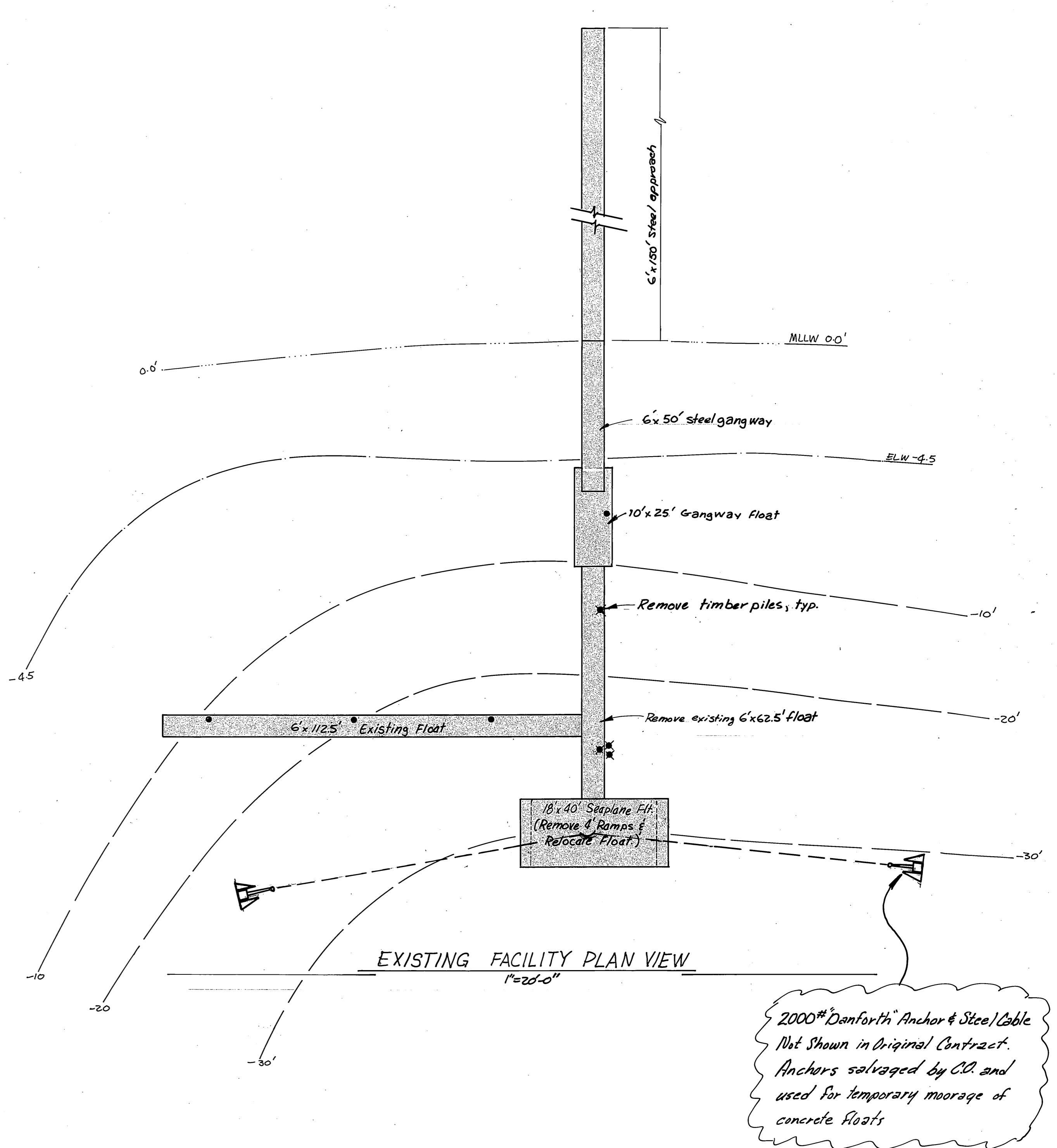
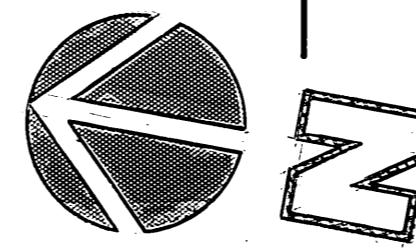
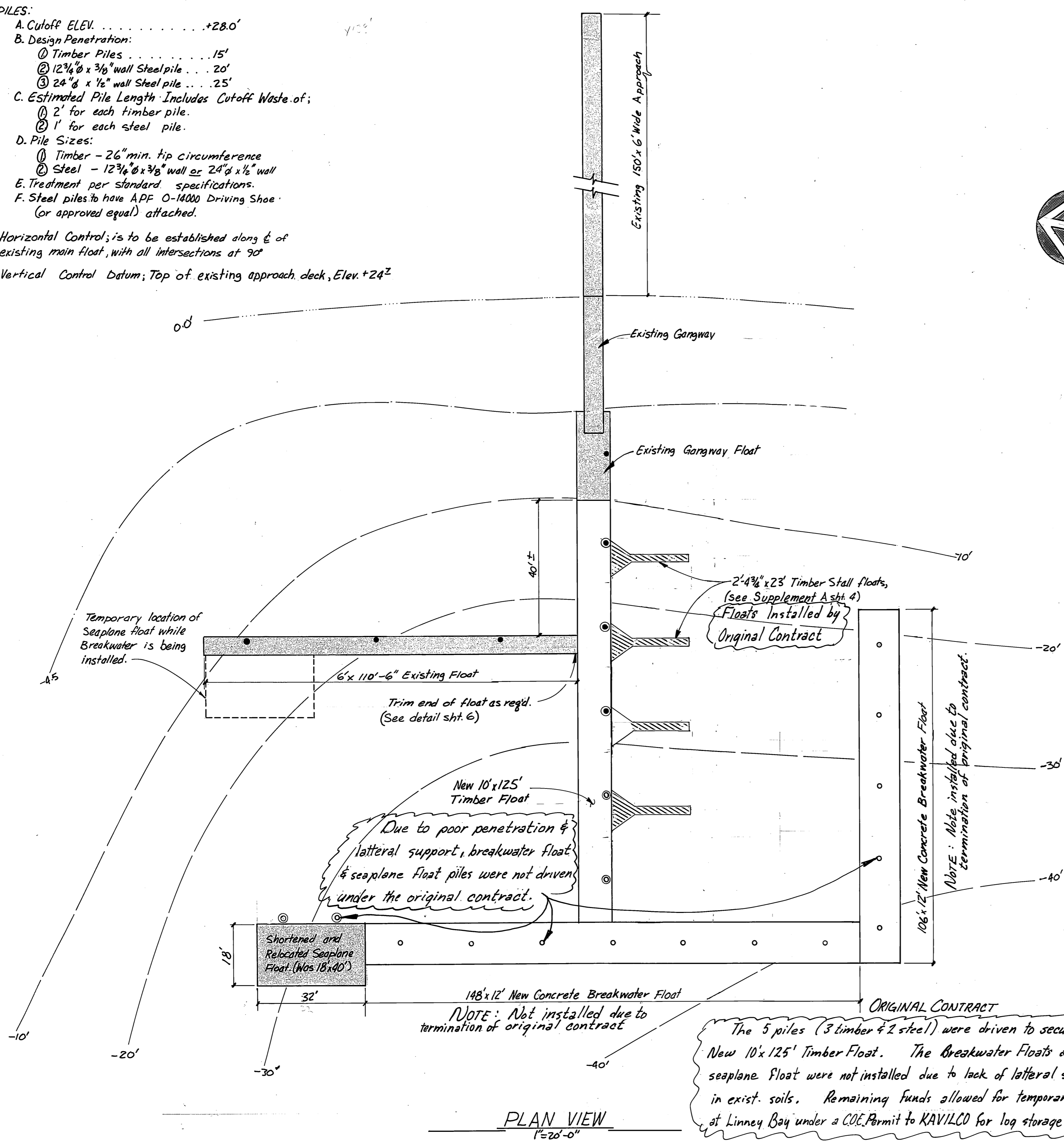
FLOATS LOCATION
(See Details Above Right)

| | | | |
|---|--------------------|------------------|------------------------|
| DO NOT SCALE THIS DRAWING - USE DIMENSIONS | | | |
| STATE OF ALASKA | | | |
| DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES | | | |
| KASSAN | | A/ASKA | |
| PROJECT LOCATION & SITE PLAN FROM | | | |
| REBID DRAWINGS SHOWING FLOATS STORED & WORK REMAINING | | | |
| DESIGNED | CHECKED <u>JDB</u> | DRAWN <u>DJM</u> | DATE <u>10-85</u> |
| PROJECT NUMBER | <u>67639</u> | SHEET | <u>1A</u> OF <u>14</u> |



GENERAL NOTES:

1. PILES:
 - A. Cutoff ELEV. +28.0'
 - B. Design Penetration:
 - ① Timber Piles 15'
 - ② 12 3/4" Ø x 3/8" wall Steel pile 20'
 - ③ 24" Ø x 1/2" wall Steel pile 25'
 - C. Estimated Pile Length Includes Cutoff Waste of:
 - ① 2' for each timber pile.
 - ② 1' for each steel pile.
 - D. Pile Sizes:
 - ① Timber - 26" min. tip circumference
 - ② Steel - 12 3/4" Ø x 3/8" wall or 24" Ø x 1/2" wall
 - E. Treatment per standard specifications.
 - F. Steel piles to have APF O-14000 Driving Shoe (or approved equal) attached.
2. Horizontal Control is to be established along & of existing main float, with all intersections at 90°
3. Vertical Control Datum; Top of existing approach deck, Elev. +24'



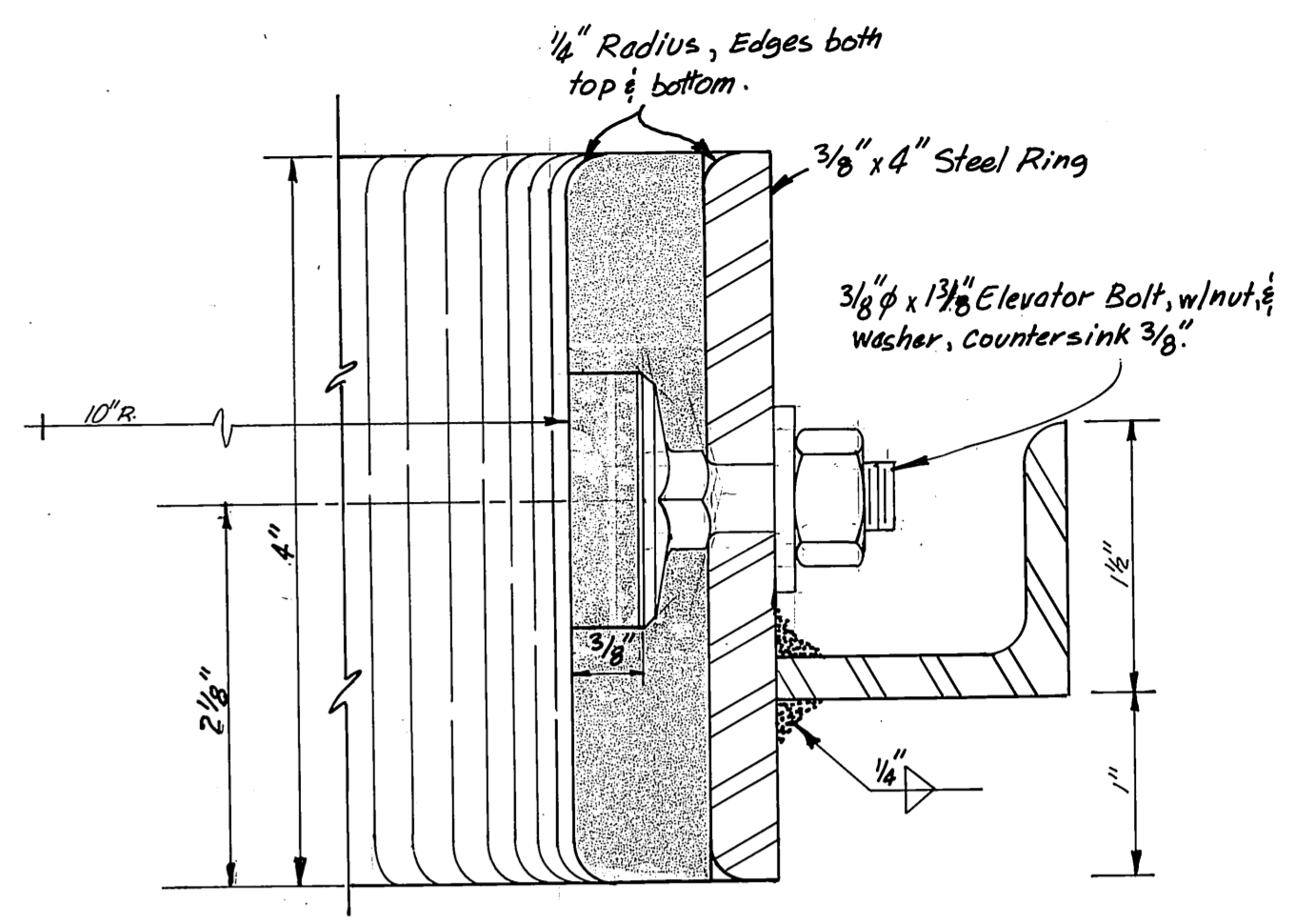
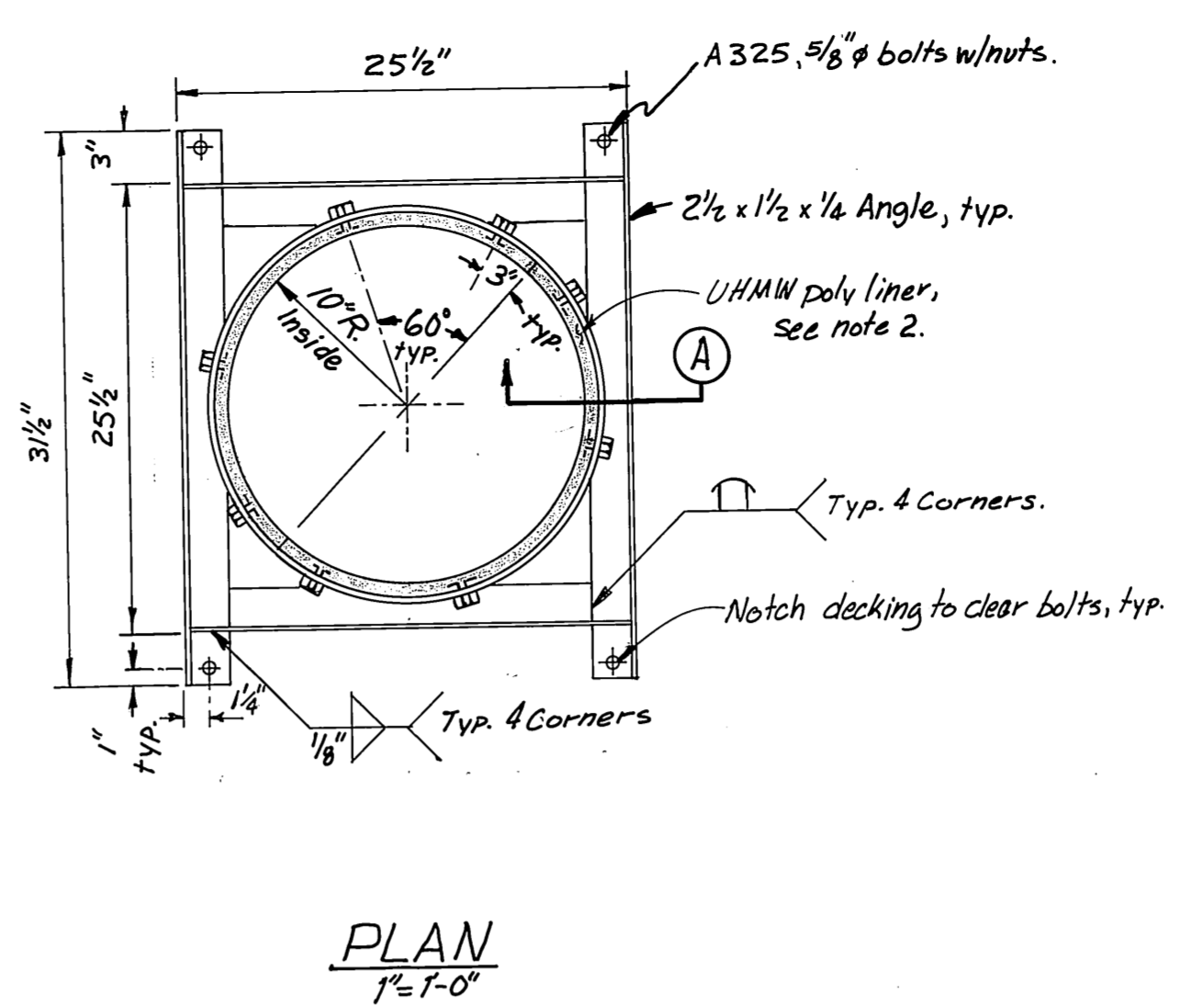
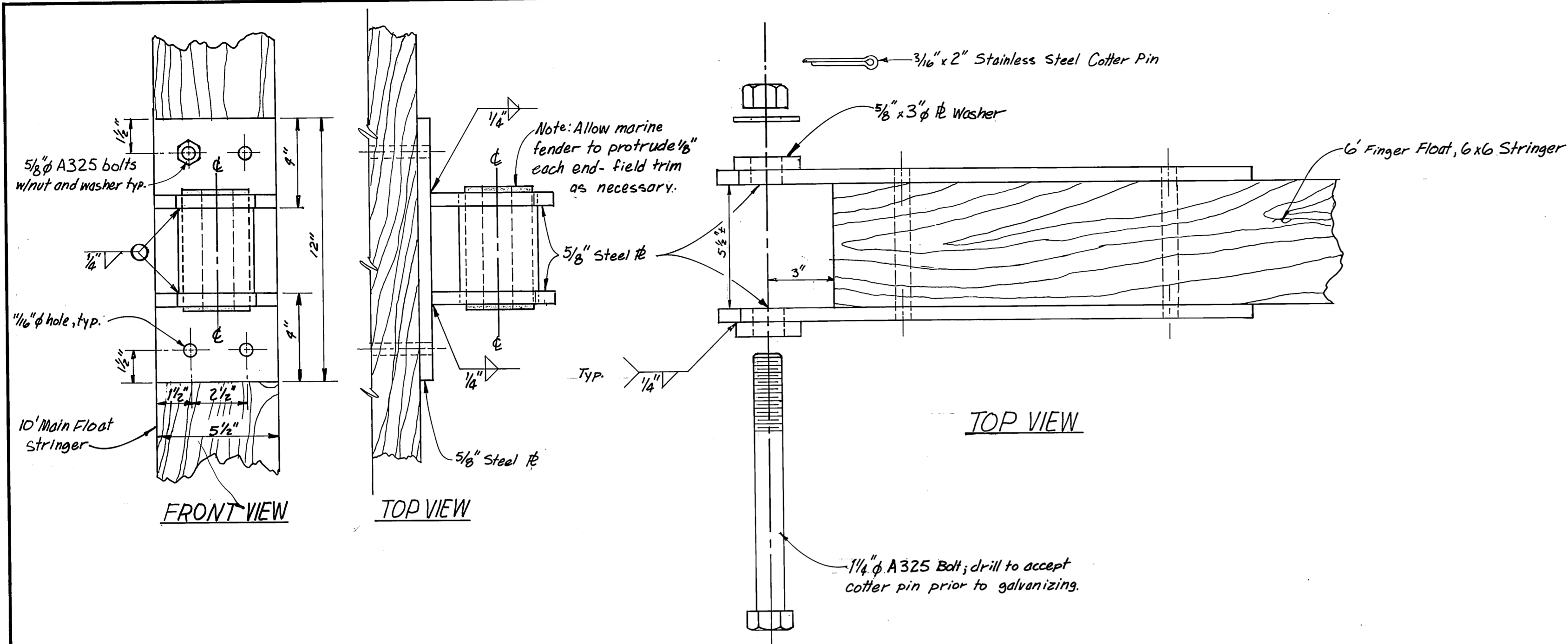
NEW HARBOR FACILITY

KEY TO PILE AND FLOAT SYMBOLS

| | |
|---|---|
| ⊗ | Existing Timber Pile to be Removed (4) |
| ⊙ | New Timber Pile to be Installed (3) |
| ● | Existing Piles to Remain (4) |
| ○ | New 12 3/4" Ø x 3/8" wall Steel Piles to be Installed (4) |
| ⊙ | New 24" Ø x 1/2" Steel pile, to be Installed (12) |
| ▭ | New Timber and Concrete Floats |
| ▨ | Supplemental Stall Floats |
| ▧ | Existing Structures |

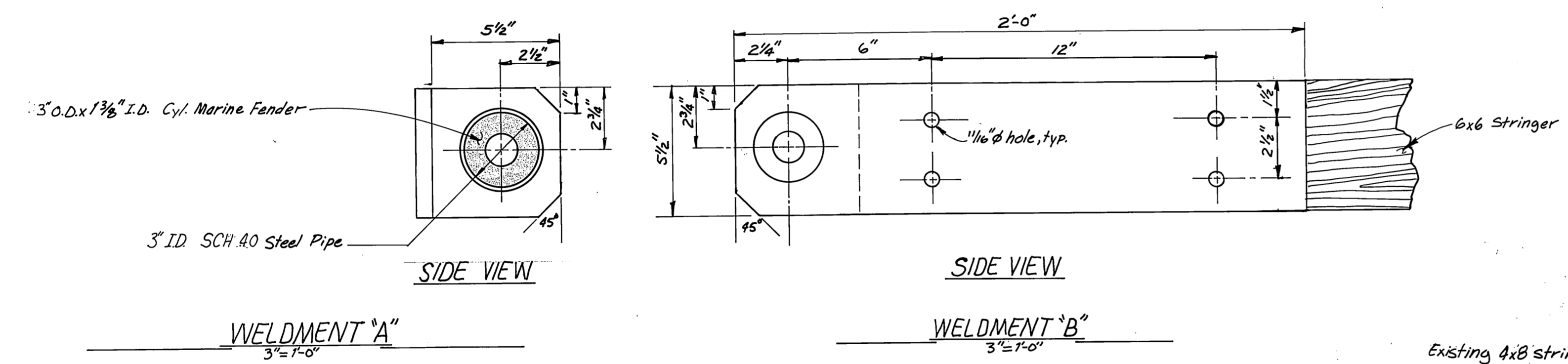
As Constructed WMD 1/1/86

| | | | |
|-------------------------------|--|------------------|----------------------|
| STAMP | DO NOT SCALE THIS DRAWING - USE DIMENSIONS | | |
| | STATE OF ALASKA DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES KASAAN ALASKA KASAAN BREAKWATER FLOATS PROJECT LAYOUT | | |
| DESIGNED <i>J</i> | CHECKED <i>JDB</i> | DRAWN <i>DJM</i> | DATE <i>OCT 1984</i> |
| PROJECT NUMBER <i>K-31111</i> | SHEET <i>2</i> OF <i>14</i> | | |



INTERNAL PILE COLLAR for 10' FLOAT
(Main Timber Float, 5 Required)

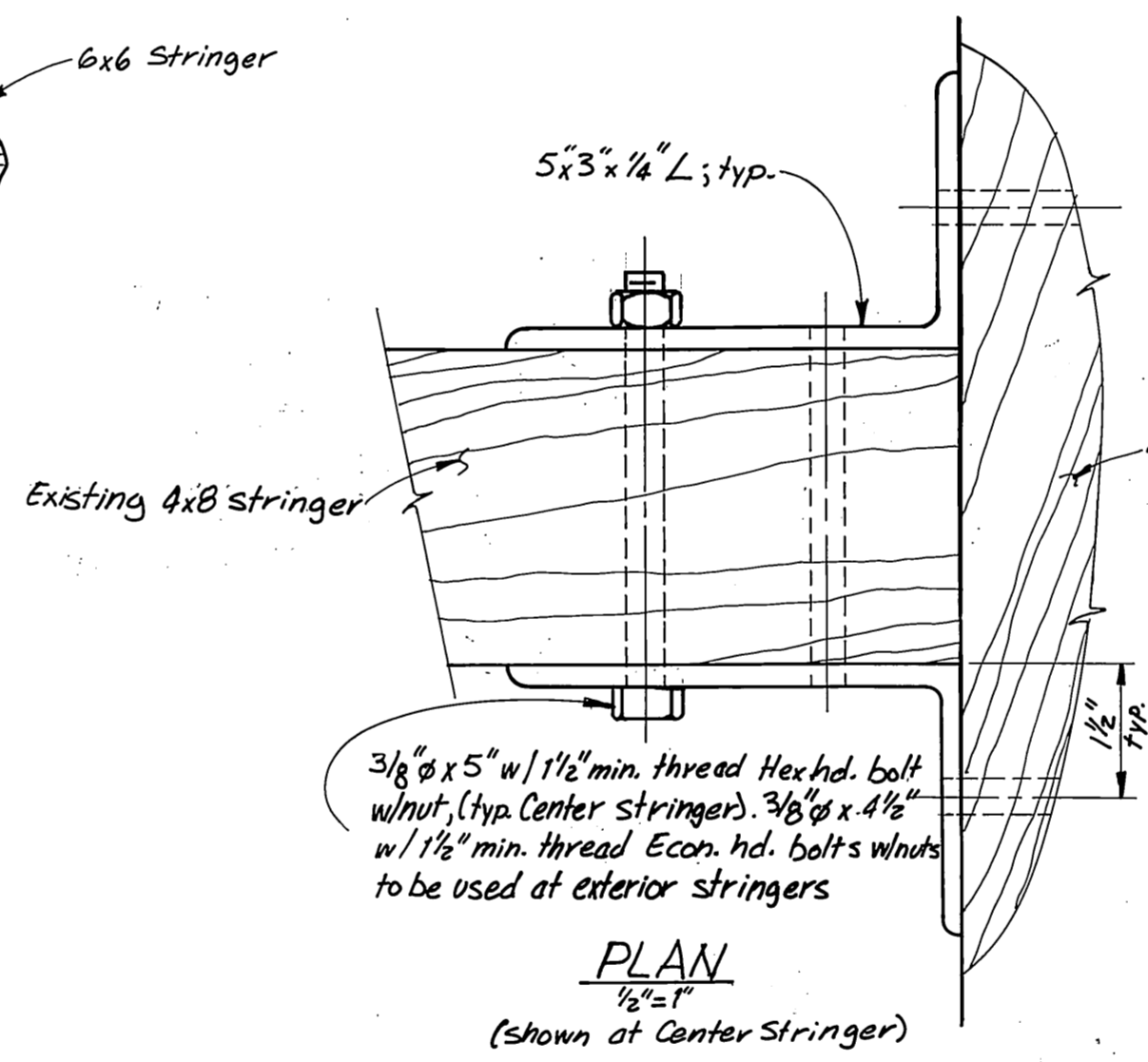
SECTION A
12" = 1'-0"



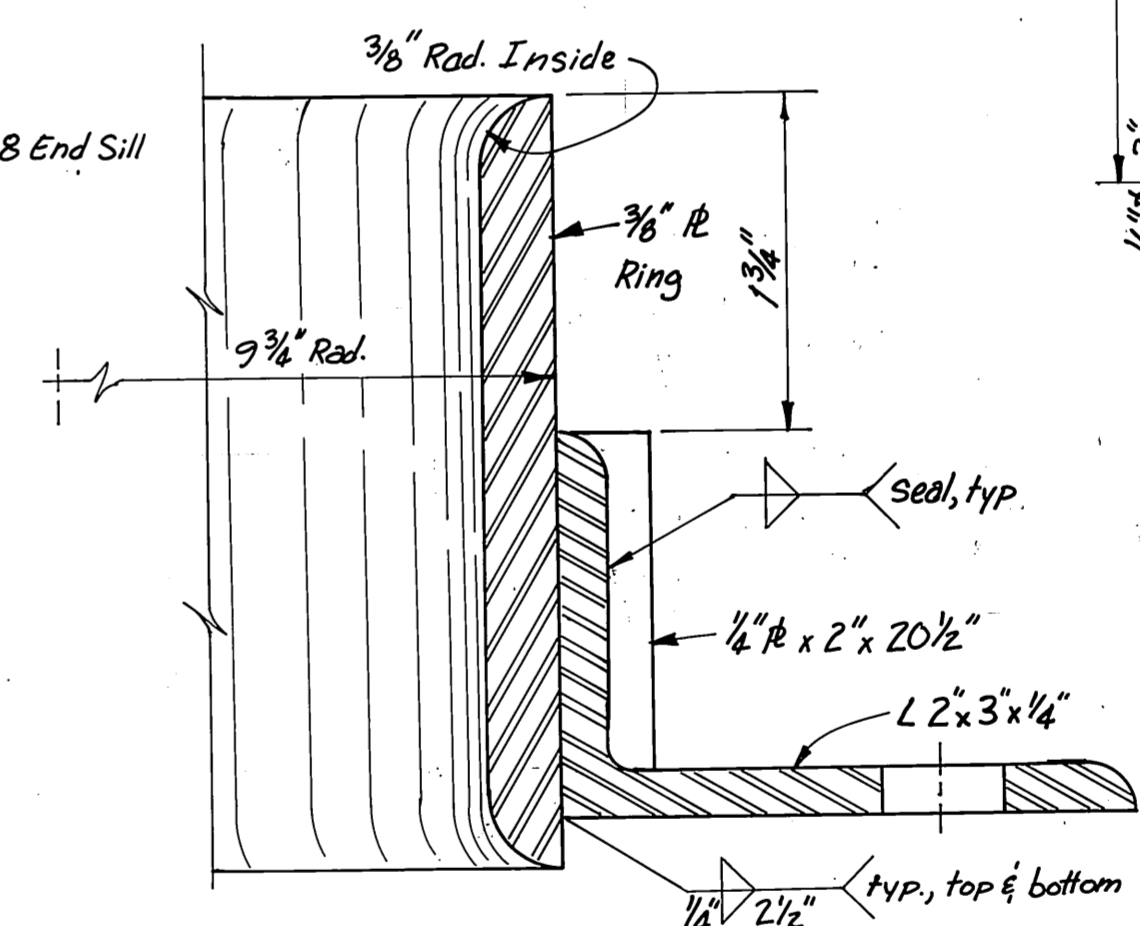
WELDMENT "A"
3" = 1'-0"

WELDMENT "B"
3" = 1'-0"

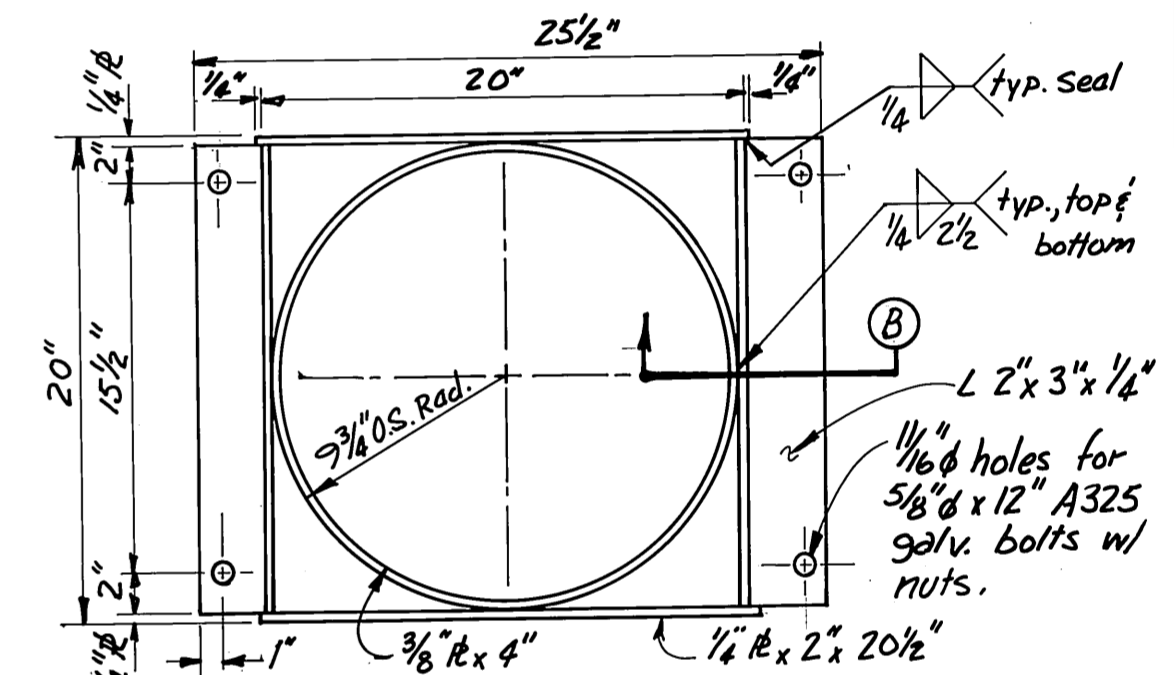
HINGE CONNECTION DETAILS



PLAN
1/2" = 1'



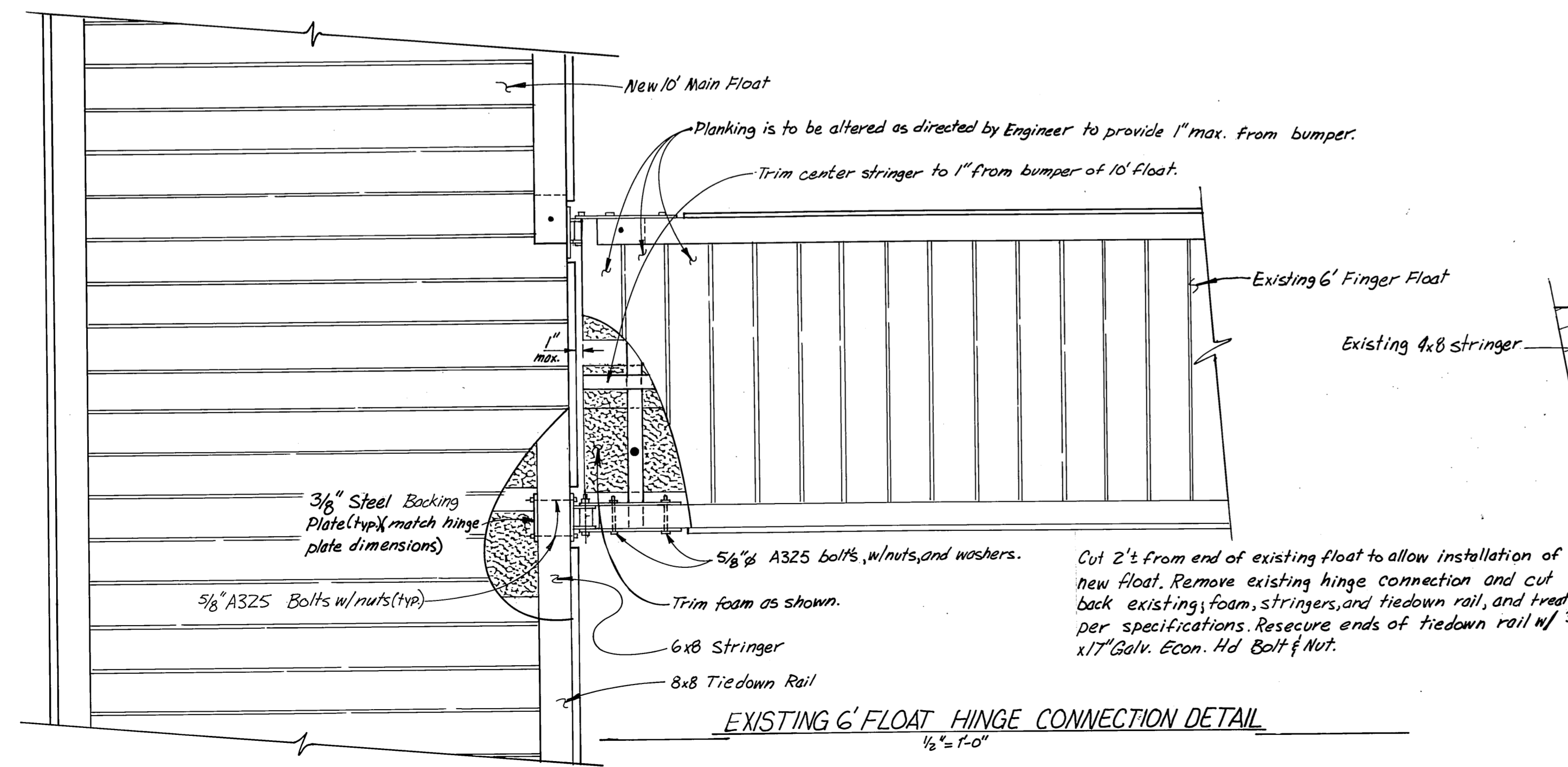
SECTION B
12" = 1'-0"



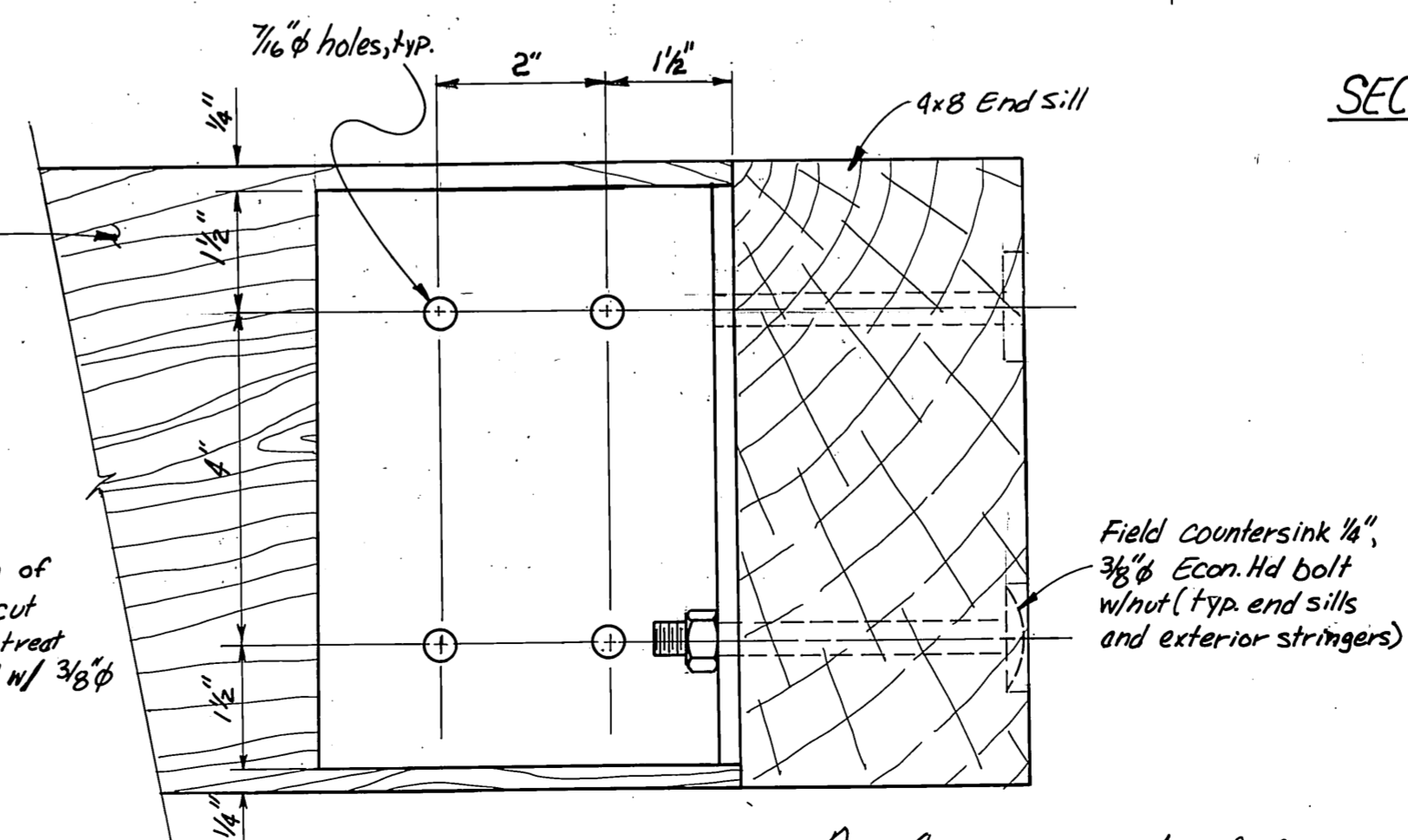
REPLACEMENT PILE COLLAR
(3 Required)

NOTE: Material Required at Each Replacement Pile Collar Location

- QTY. Description**
- 1 - Replacement Pile Collar
 - 2 - 4x6x19 1/2" S4S Creosote treated
 - 4 - 5/8" x 12" A325 Galv. bolts, w/nuts.



EXISTING 6' FLOAT HINGE CONNECTION DETAIL
1/2" = 1'-0"



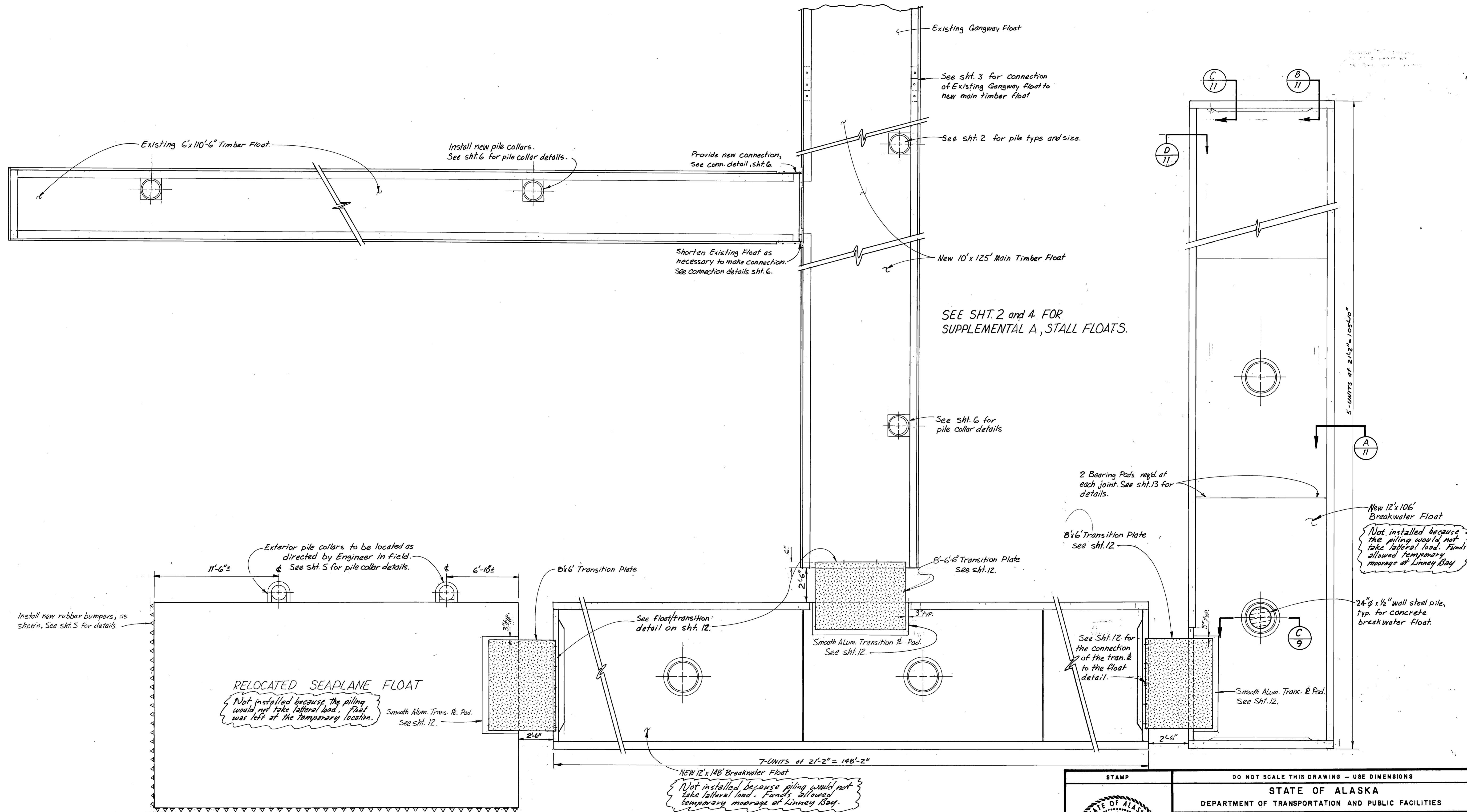
ELEVATION
1/2" = 1'

SEAPLANE FLOAT END SILL ANGLE CONNECTION

As Constructed w/n 1/4/86

- NOTES:**
1. All welds inside pile collar rings are to be ground smooth.
 2. Internal Pile Collar: 3/4 x 4" UHMW poly liner, as shown, is to be hot molded to the proper radius and attached w/4 bolts w/nuts per: half collar
 3. All steel is to be hot dip galvanized after fabrication.
 4. Fabricator is to pre-assemble all components to assure proper fit.
 5. Bolt holes to be drilled 1/16" over bolt size. All bolt heads facing decking or siding to be countersunk 3/8".

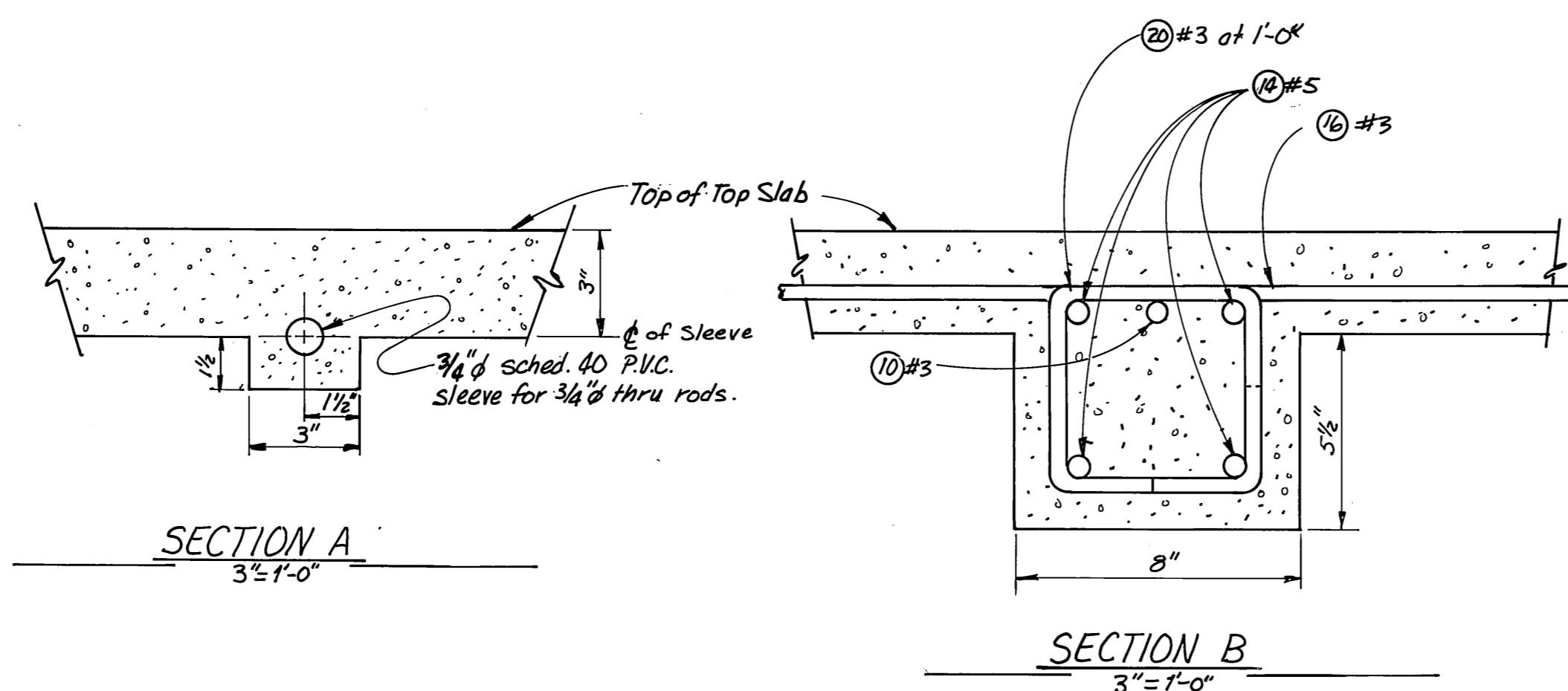
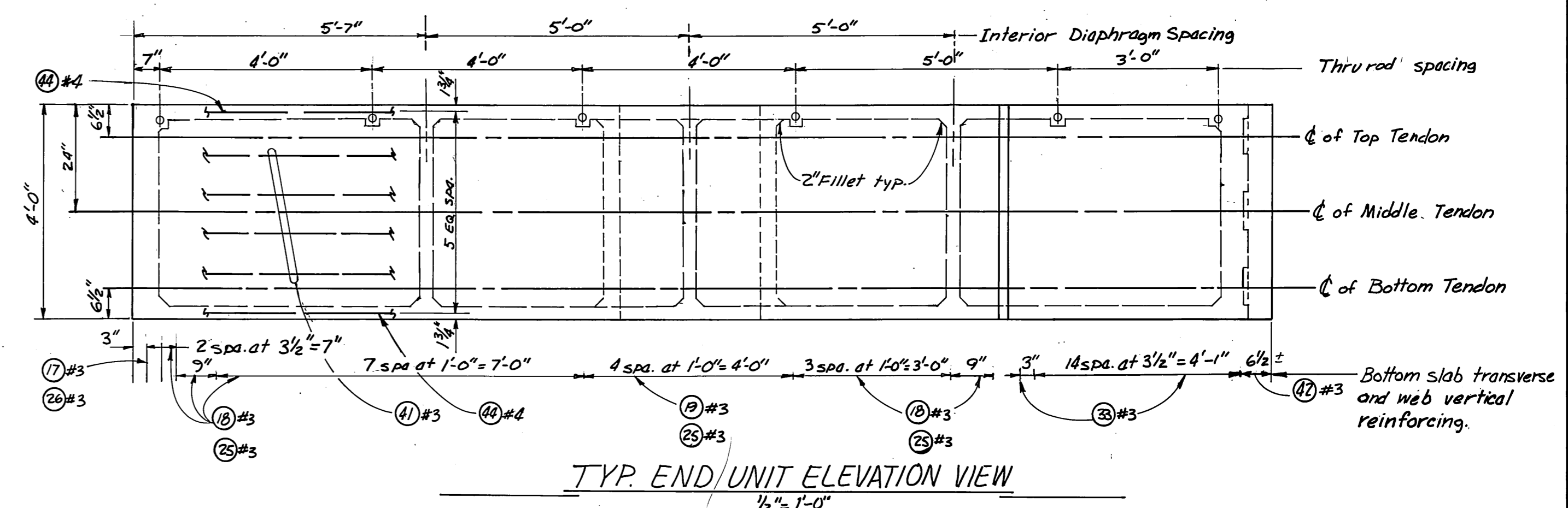
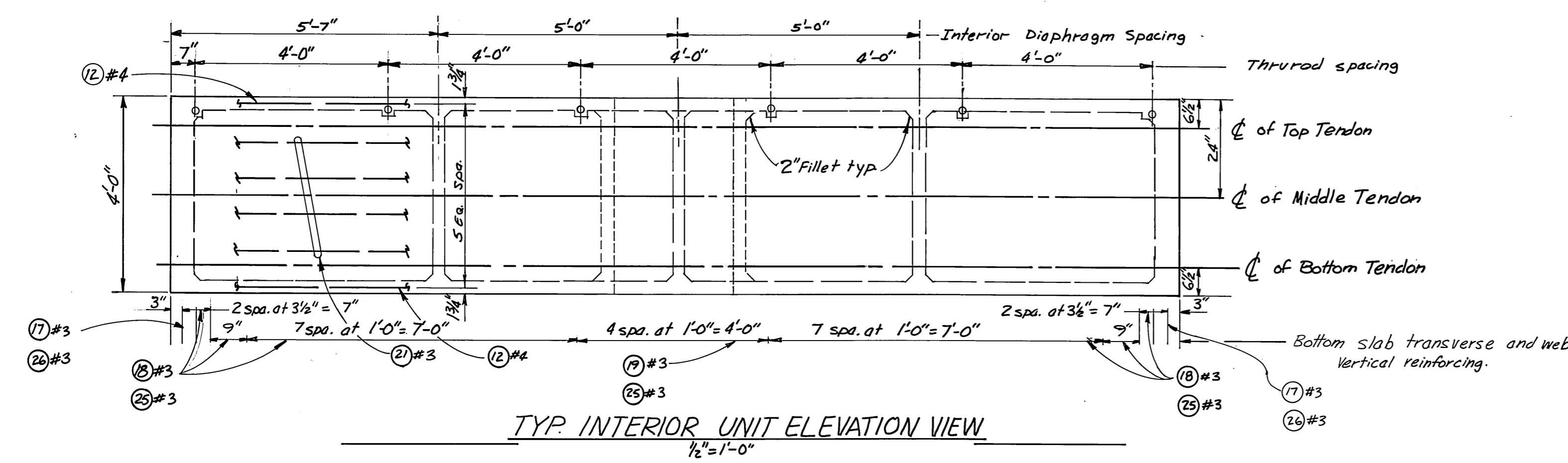
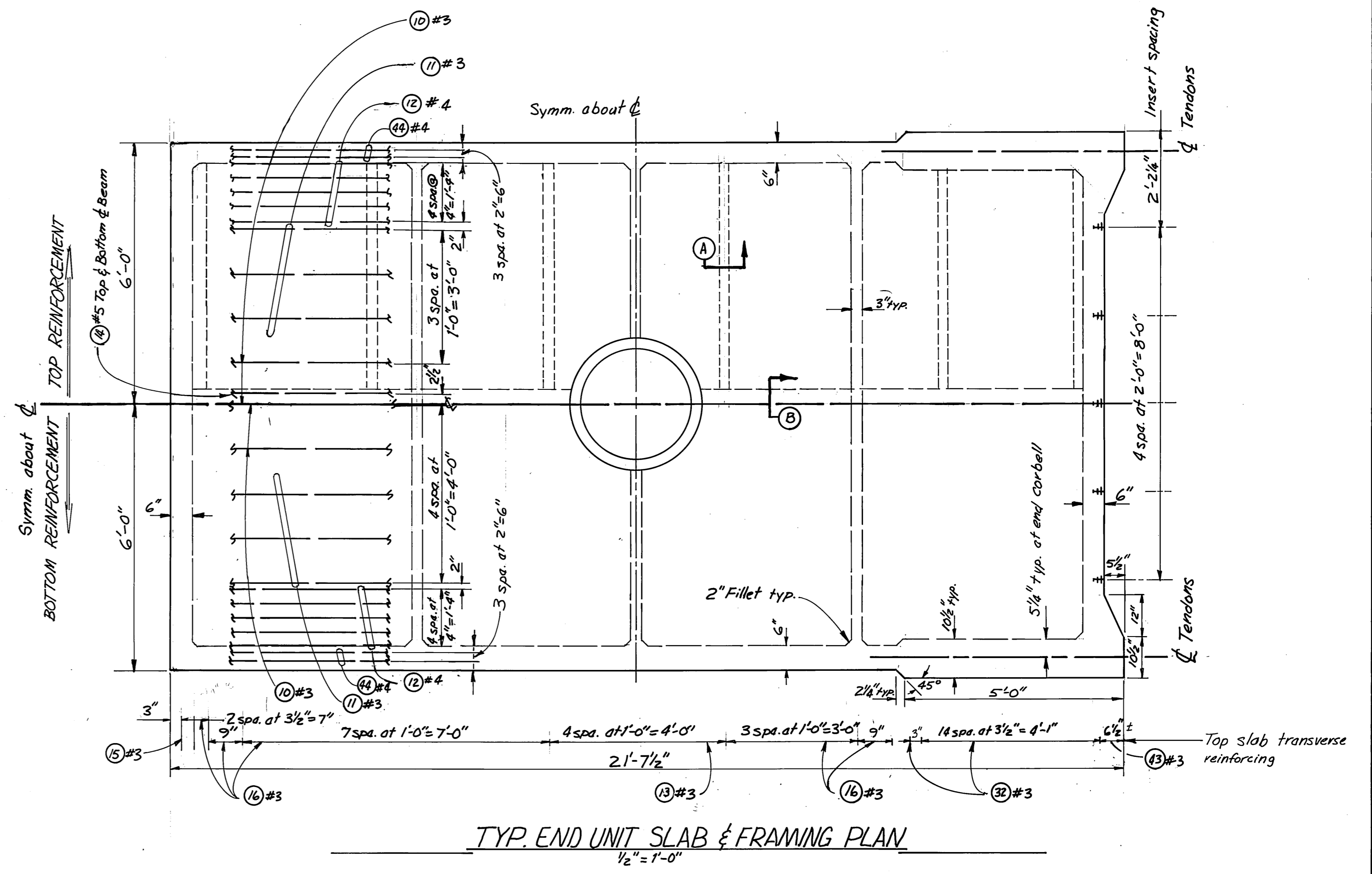
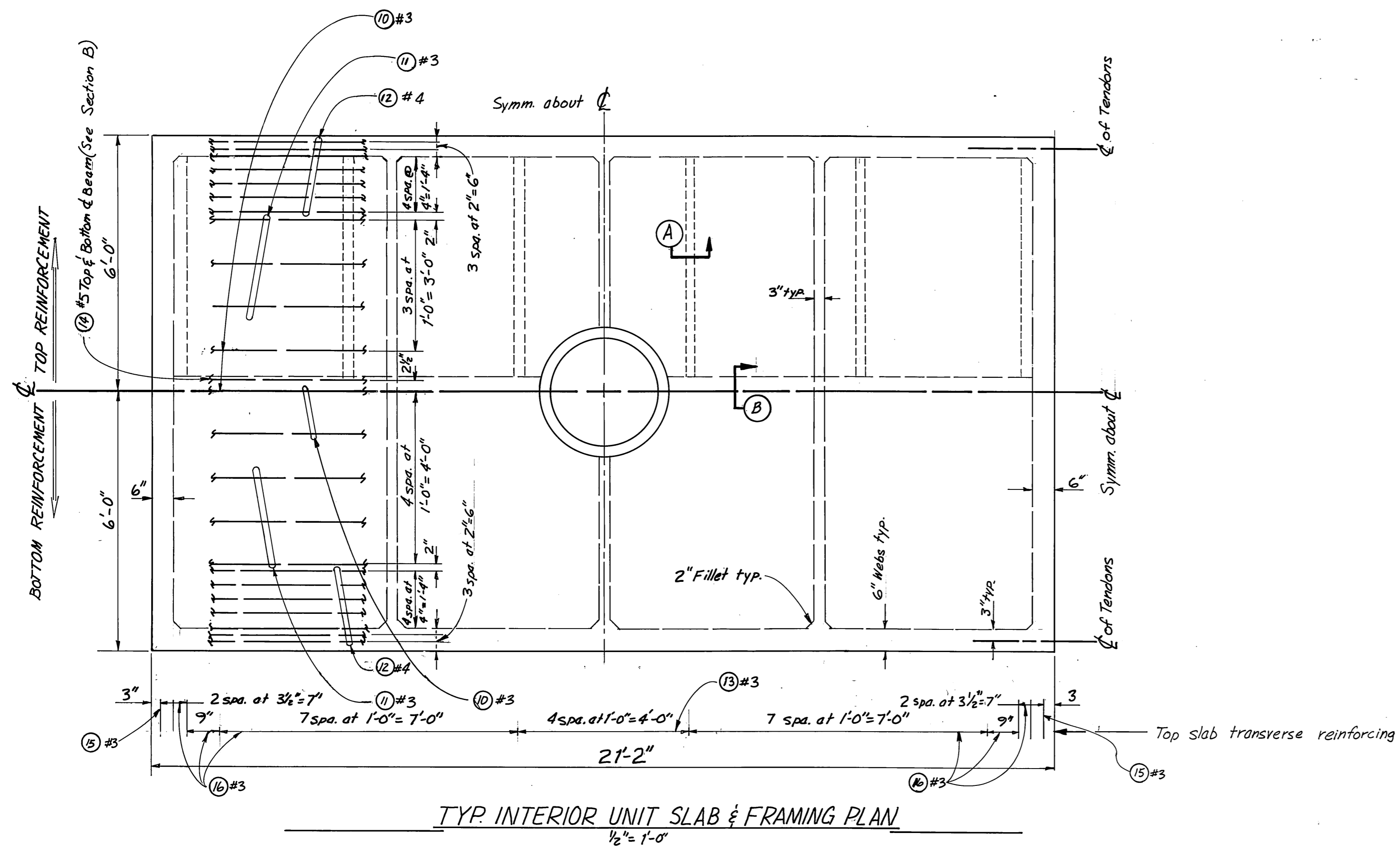
| | | | |
|---|-----------------------------|--|--------------------|
| STAMP | | DO NOT SCALE THIS DRAWING - USE DIMENSIONS | |
| STATE OF ALASKA | | | |
| DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES | | | |
| KASAAAN | | ALASKA | |
| TIMBER FLOAT PILE COLLAR AND HINGE CONNECTION DETAIL | | | |
| DESIGNED <i>[Signature]</i> | CHECKED <i>JDB</i> | DRAWN <i>DJM</i> | DATE <i>JAN 85</i> |
| PROJECT NUMBER <i>K 3111</i> | SHEET <i>6</i> OF <i>14</i> | | |



FLOAT AND BREAKWATER LAYOUT
1/8" = 1'-0"

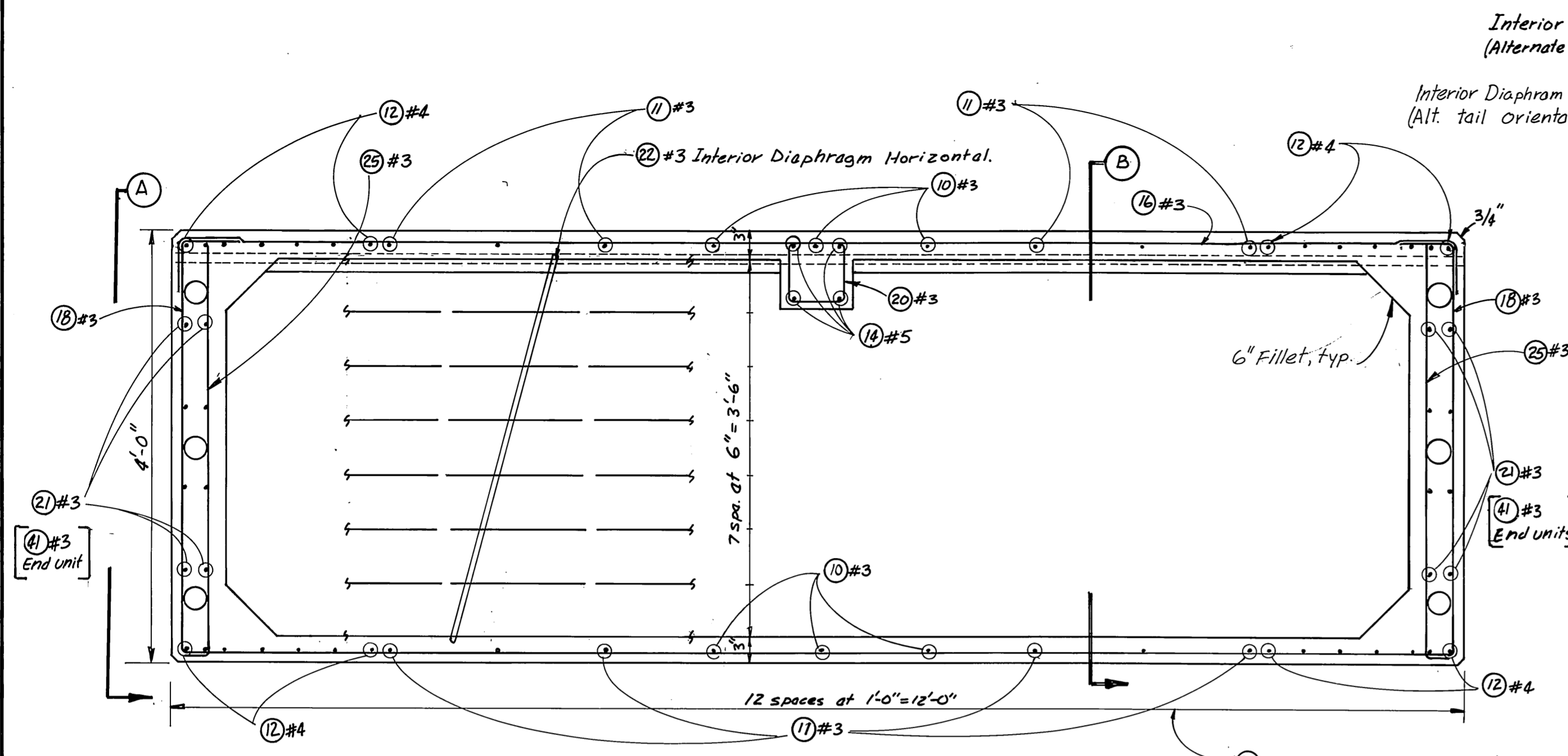
As Constructed WmW 1/1/86

| | | | |
|------------------------------|-----------------------------|--|--------------------|
| STAMP | | DO NOT SCALE THIS DRAWING - USE DIMENSIONS | |
| | | STATE OF ALASKA | |
| | | DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES | |
| KASAAN | | ALASKA | |
| FLOAT LAYOUT | | | |
| DESIGNED <i>LD</i> | CHECKED <i>JDB</i> | DRAWN <i>DJM</i> | DATE <i>JAN 85</i> |
| PROJECT NUMBER <i>K 3111</i> | SHEET <i>7</i> OF <i>14</i> | | |

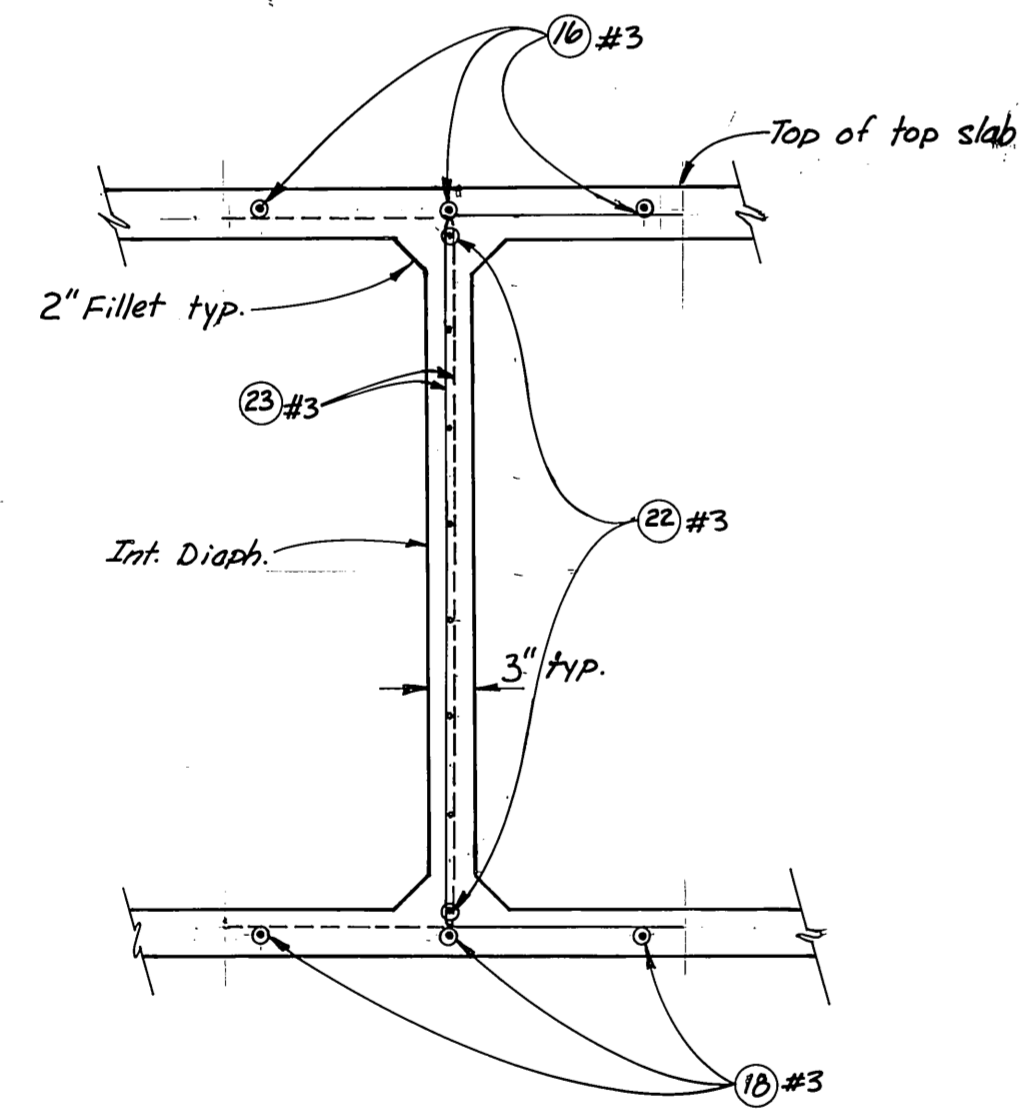


As Constructed w/m 1/4/86

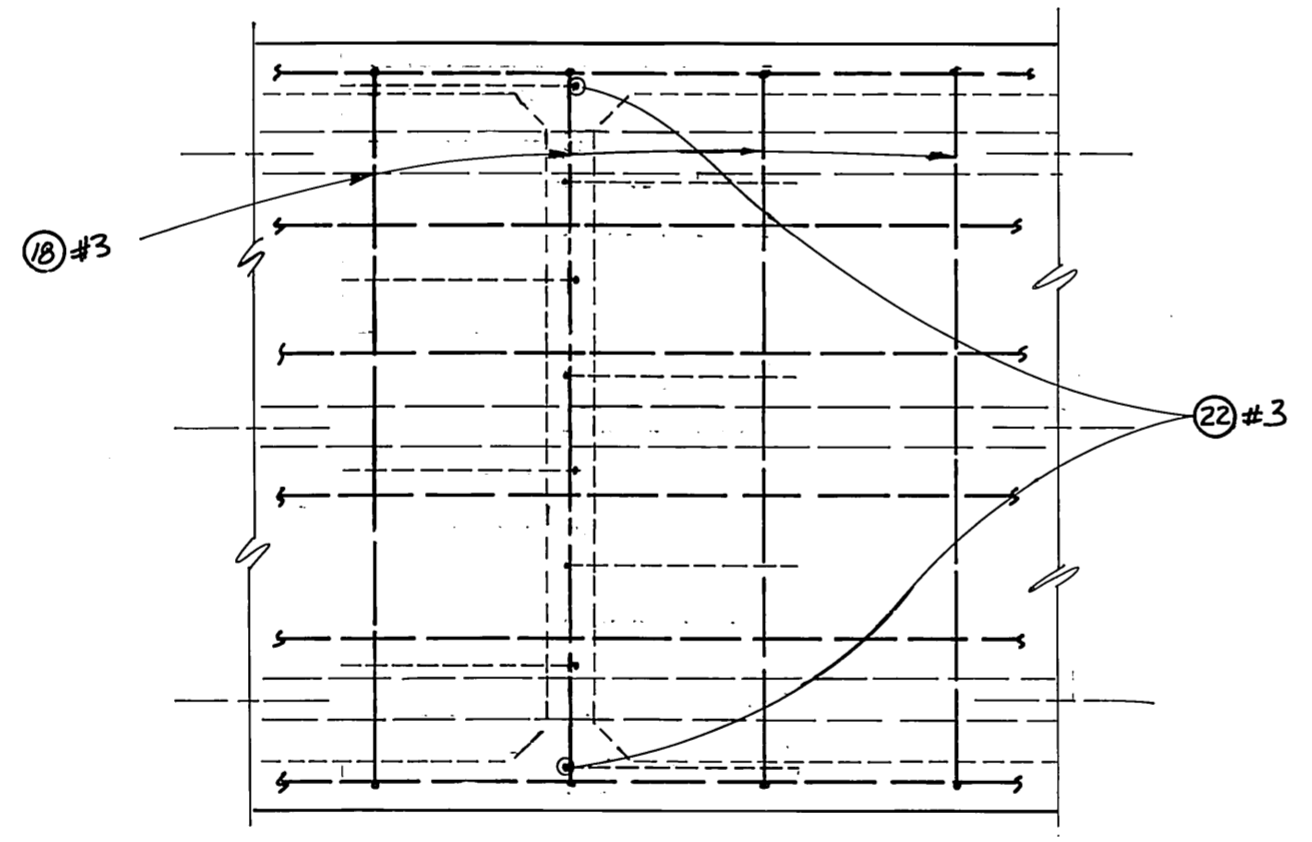
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|---|-------------|--|-------------|
| STAMP | | DO NOT SCALE THIS DRAWING - USE DIMENSIONS | |
| STATE OF ALASKA | | | |
| DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES | | | |
| KASAAN | | ALASKA | |
| POST TENSIONED BREAKWATER FLOATS FRAMING, SLAB PLAN & LONG SECTION | | | |
| DESIGNED <i>[Signature]</i> | CHECKED JDB | DRAWN DJM | DATE JAN 85 |
| PROJECT NUMBER K 3111 | SHEET 8 | | OF 14 |



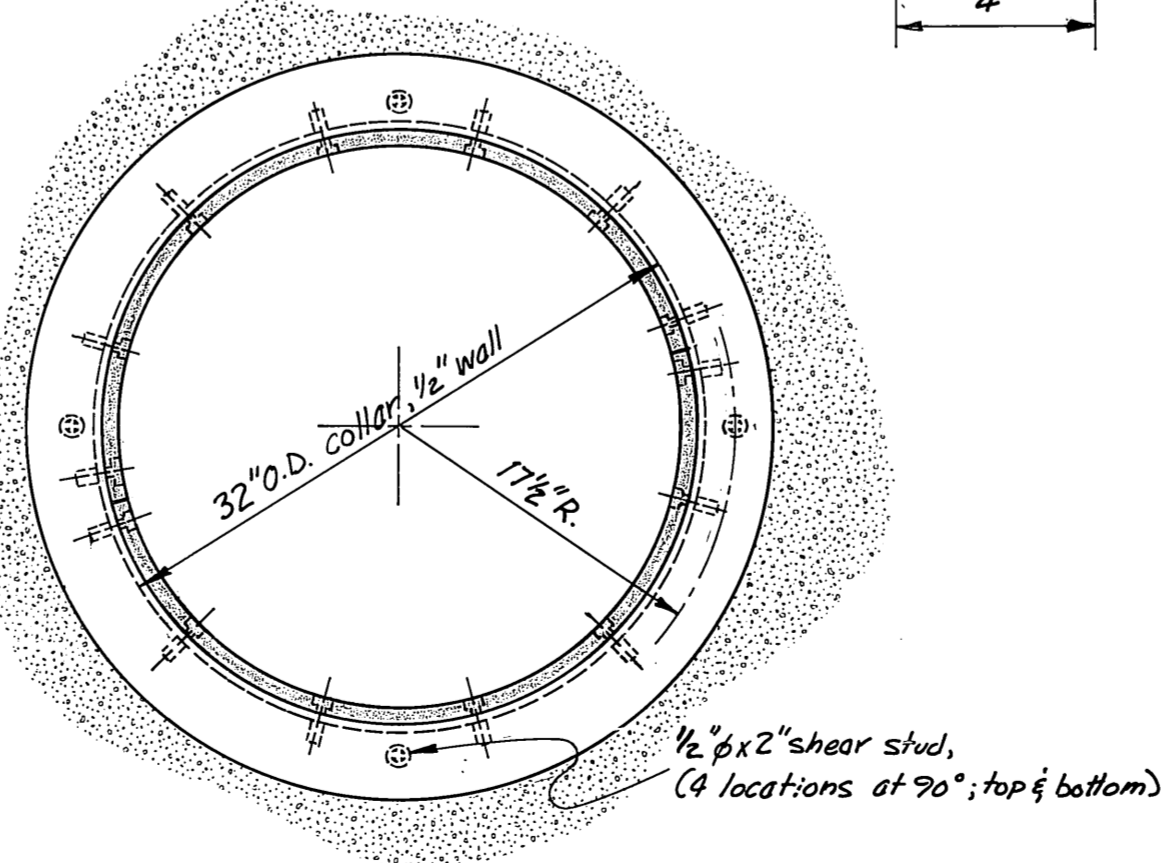
TYPICAL SECTION of INTERIOR DIAPHRAGM STEEL
 1"=1'-0"
 (See this sht. for Int. Diaph. at Pile Collar)



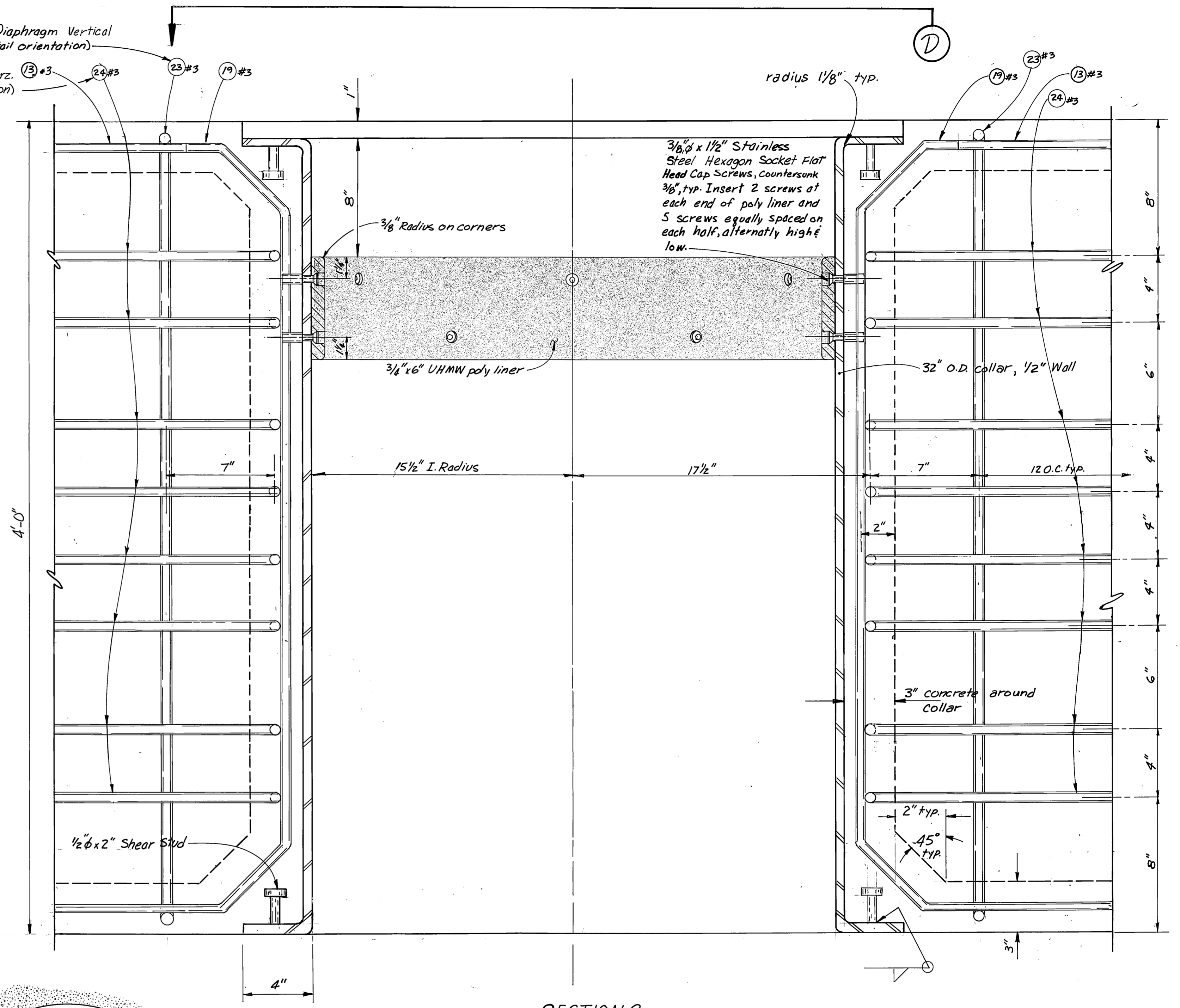
SECTION B
 1"=1'-0"



SECTION A
 1"=1'-0"



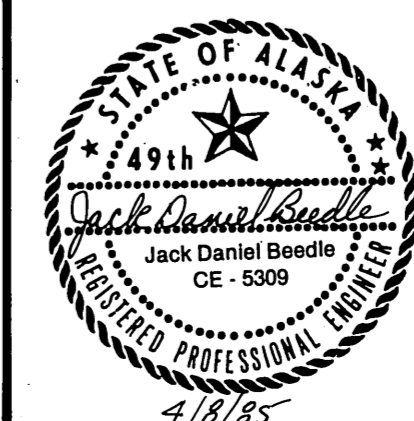
PLAN VIEW-D
 1/4"=1'-0"



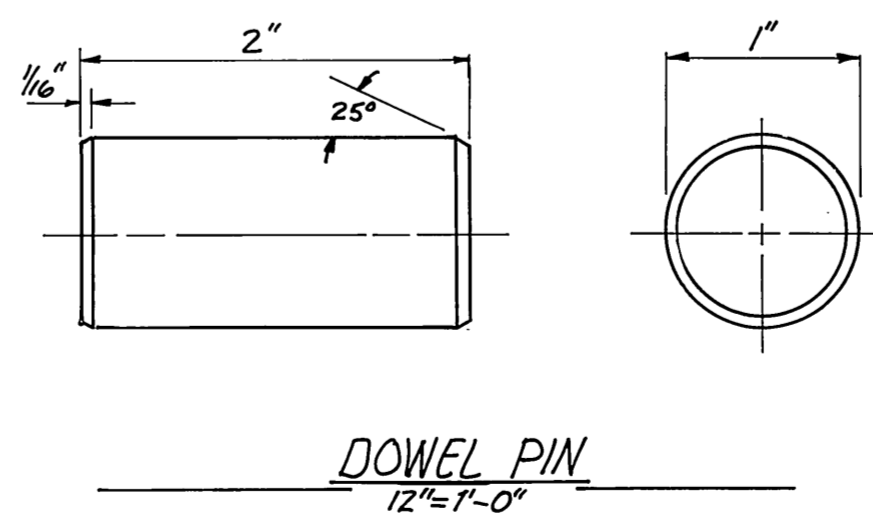
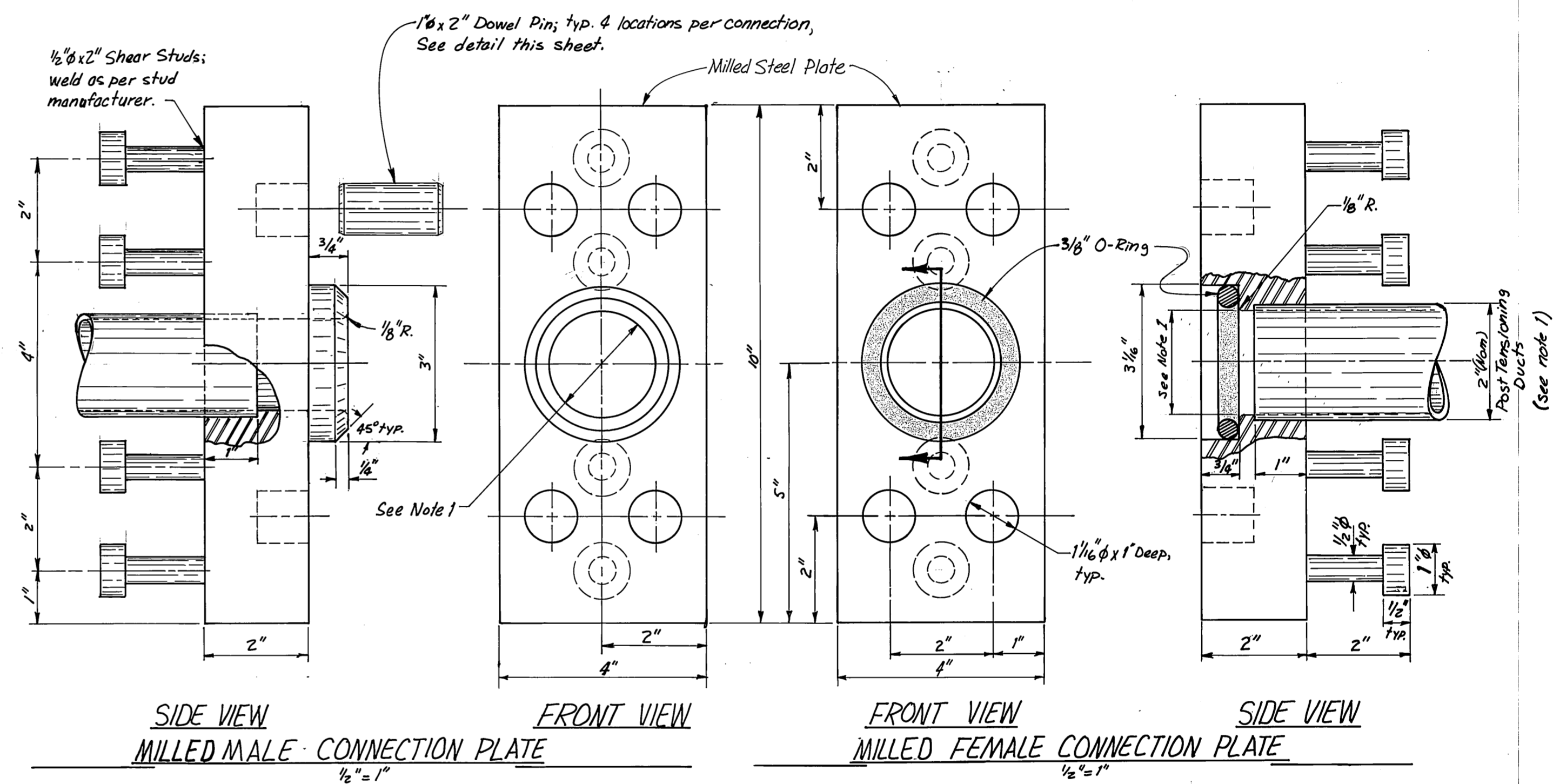
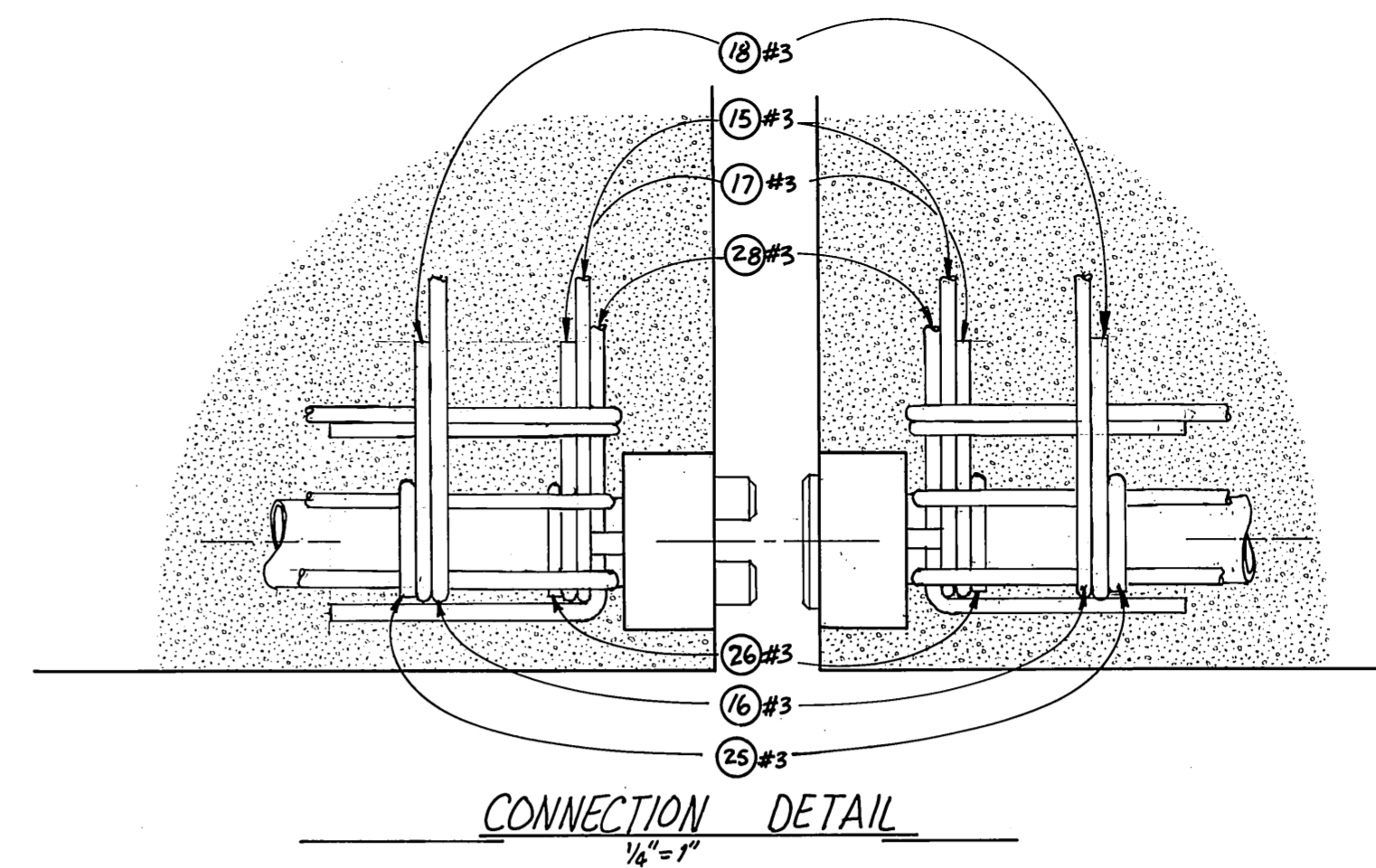
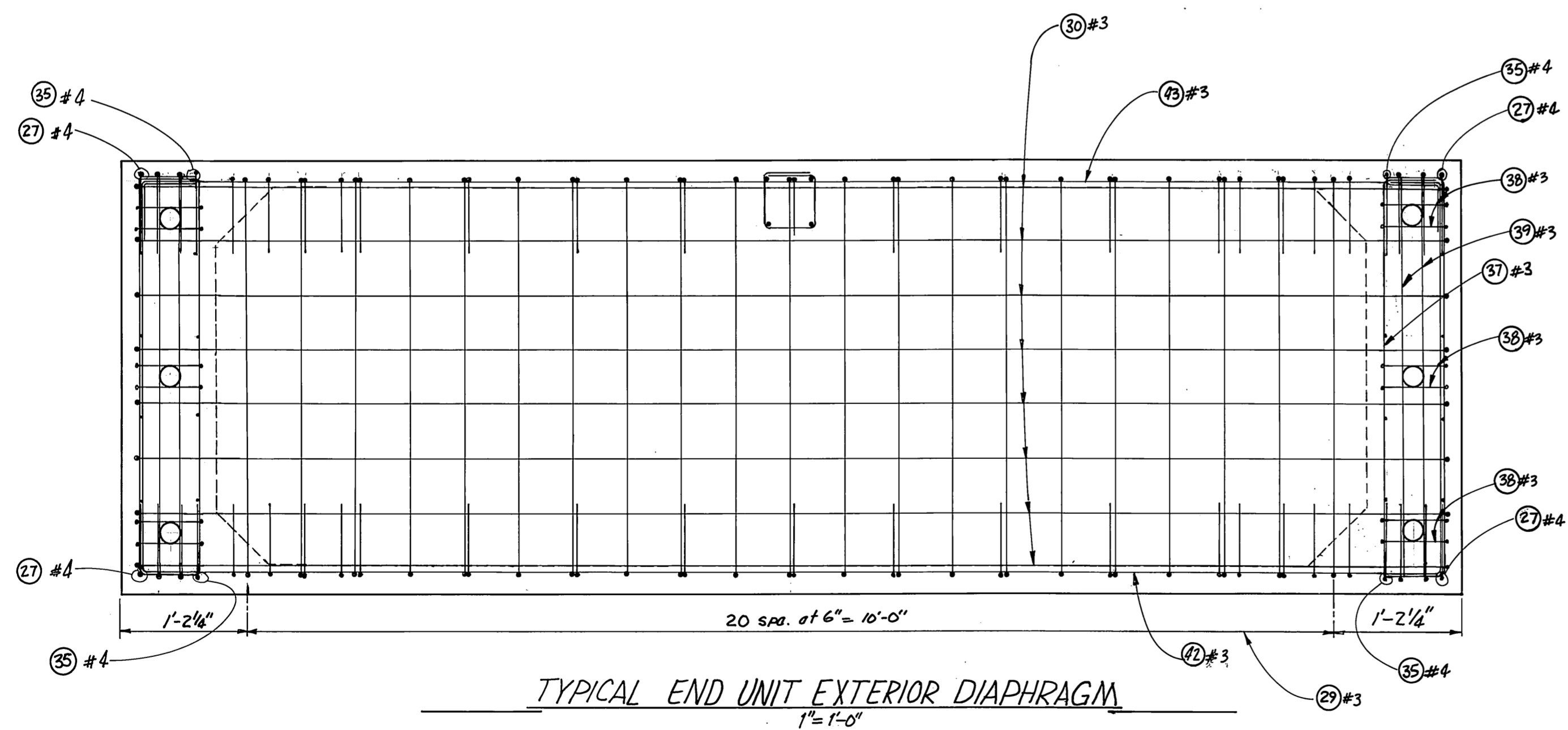
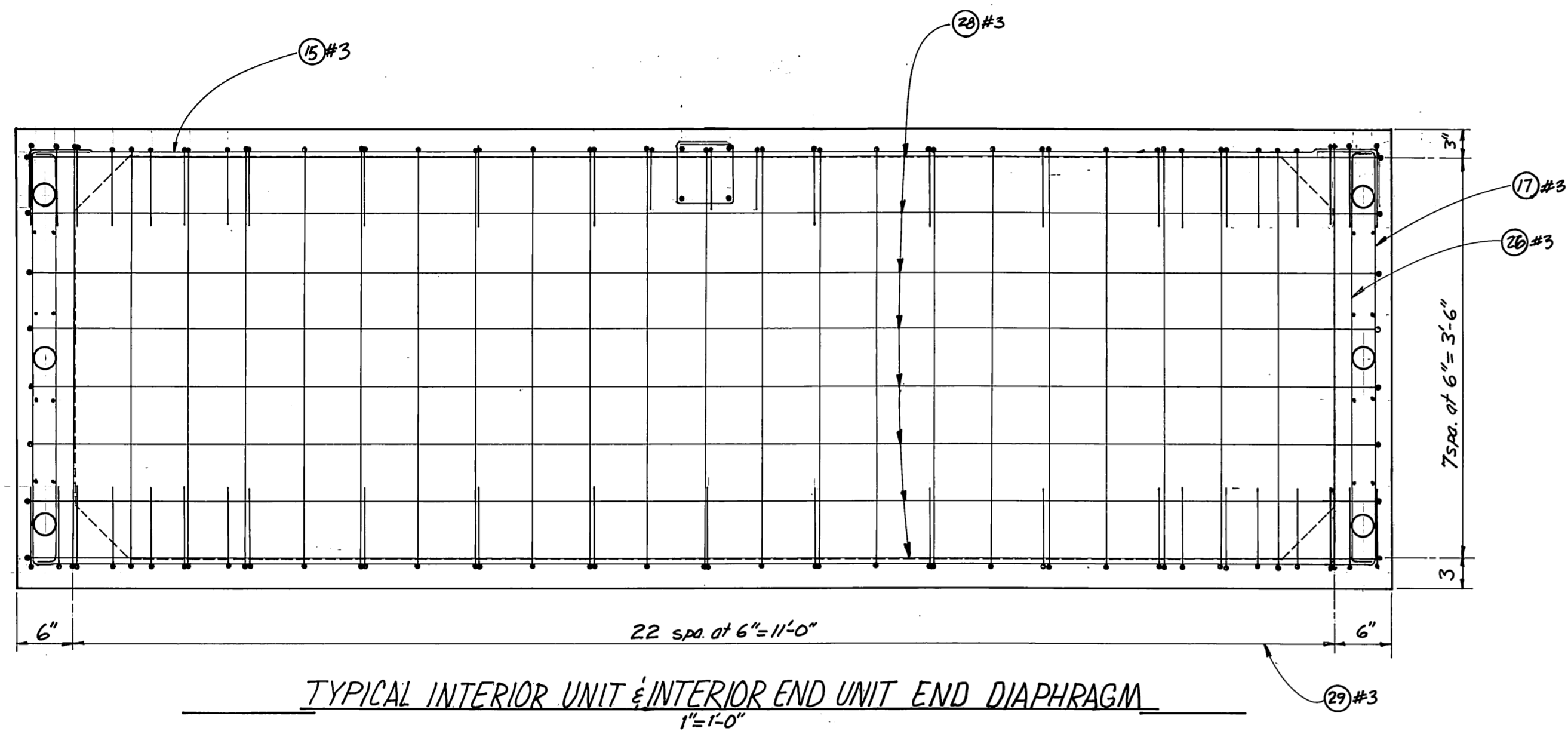
SECTION C
 3"=1'-0"

- NOTES:
1. The pile collar UHMW poly liner, as shown, is to be heated and molded to the proper radius, then attached with 9 screws and ferrules per half collar.
 2. All welds inside collar to be ground smooth.
 3. All steel is to be hot dip galvanized after fabrication.
 4. Fabricator is to assemble all components to assure proper fit.

| | | | |
|--|--------------------|--|--------------------|
| STAMP | | DO NOT SCALE THIS DRAWING - USE DIMENSIONS | |
| STATE OF ALASKA DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES | | | |
| KASAAK | | ALASKA | |
| POST TENSIONED BREAKWATER FLOATS TYPICAL SECTION AND INT. PILE COLLAR | | | |
| DESIGNED <i>LD</i> | CHECKED <i>JDB</i> | DRAWN <i>DJM</i> | DATE <i>JAN 85</i> |
| PROJECT NUMBER <i>K3111</i> | | SHEET <i>9</i> OF <i>14</i> | |



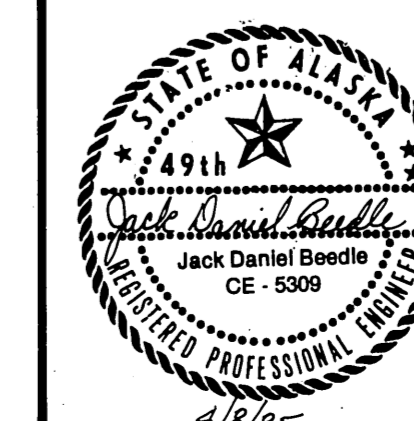
As Constructed WMD 1/1/86

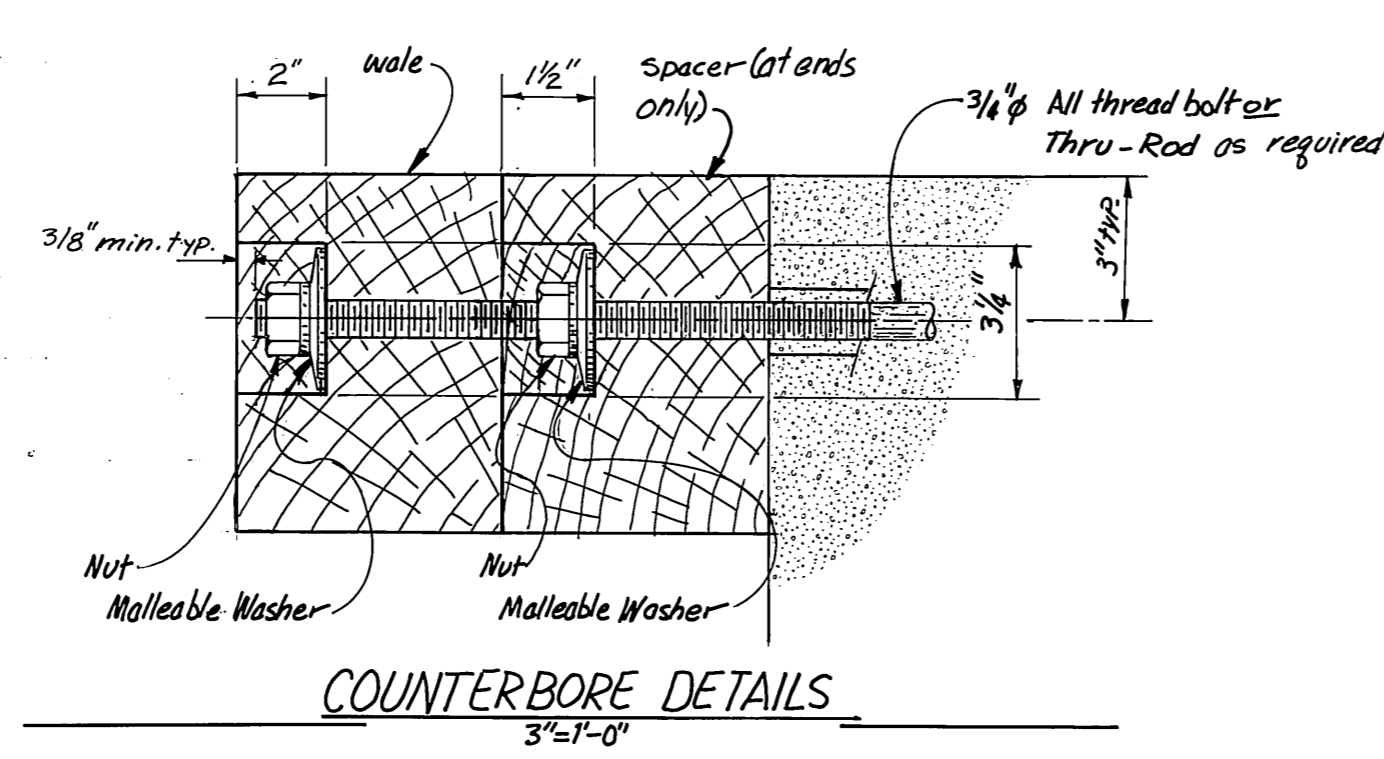
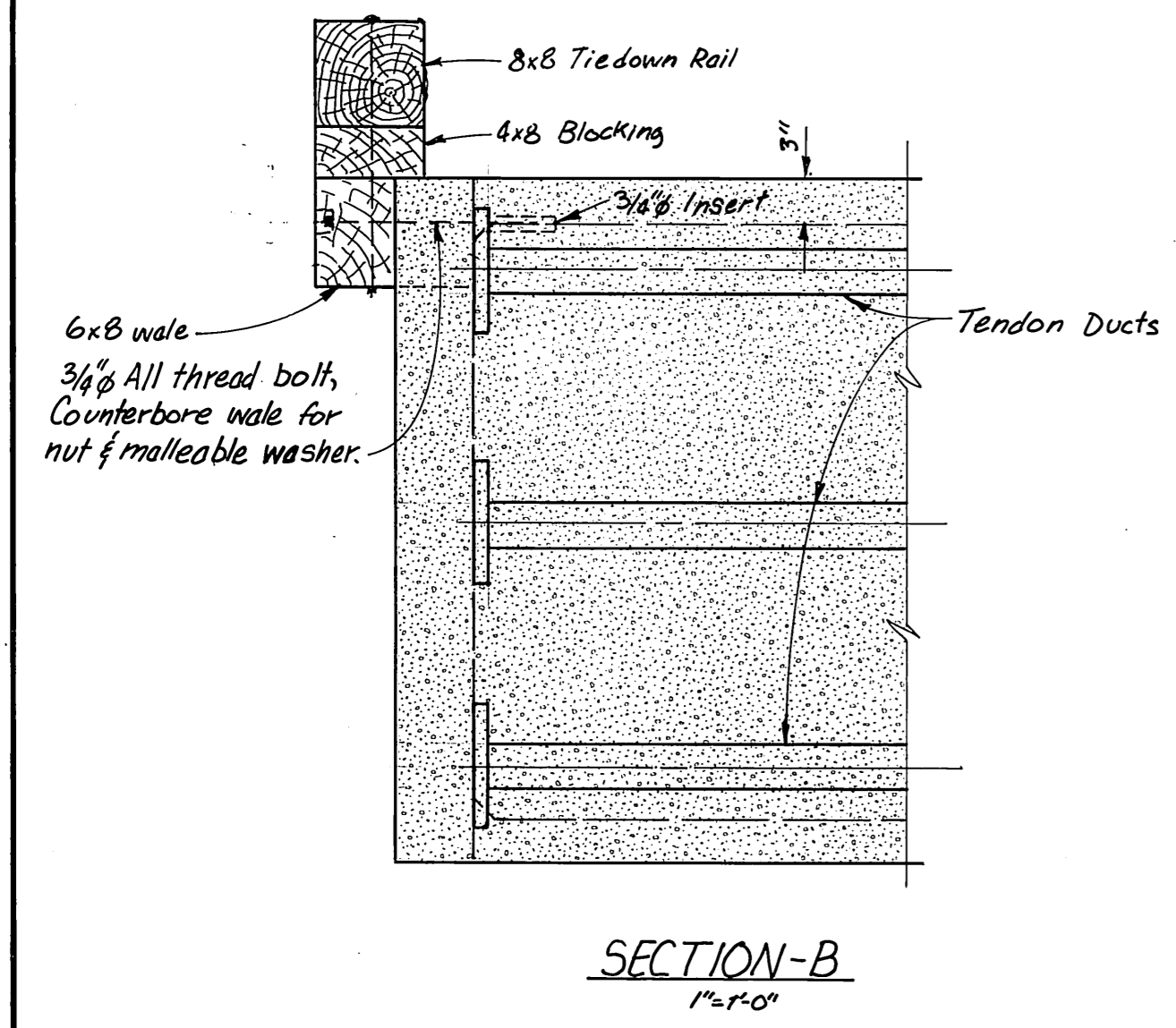
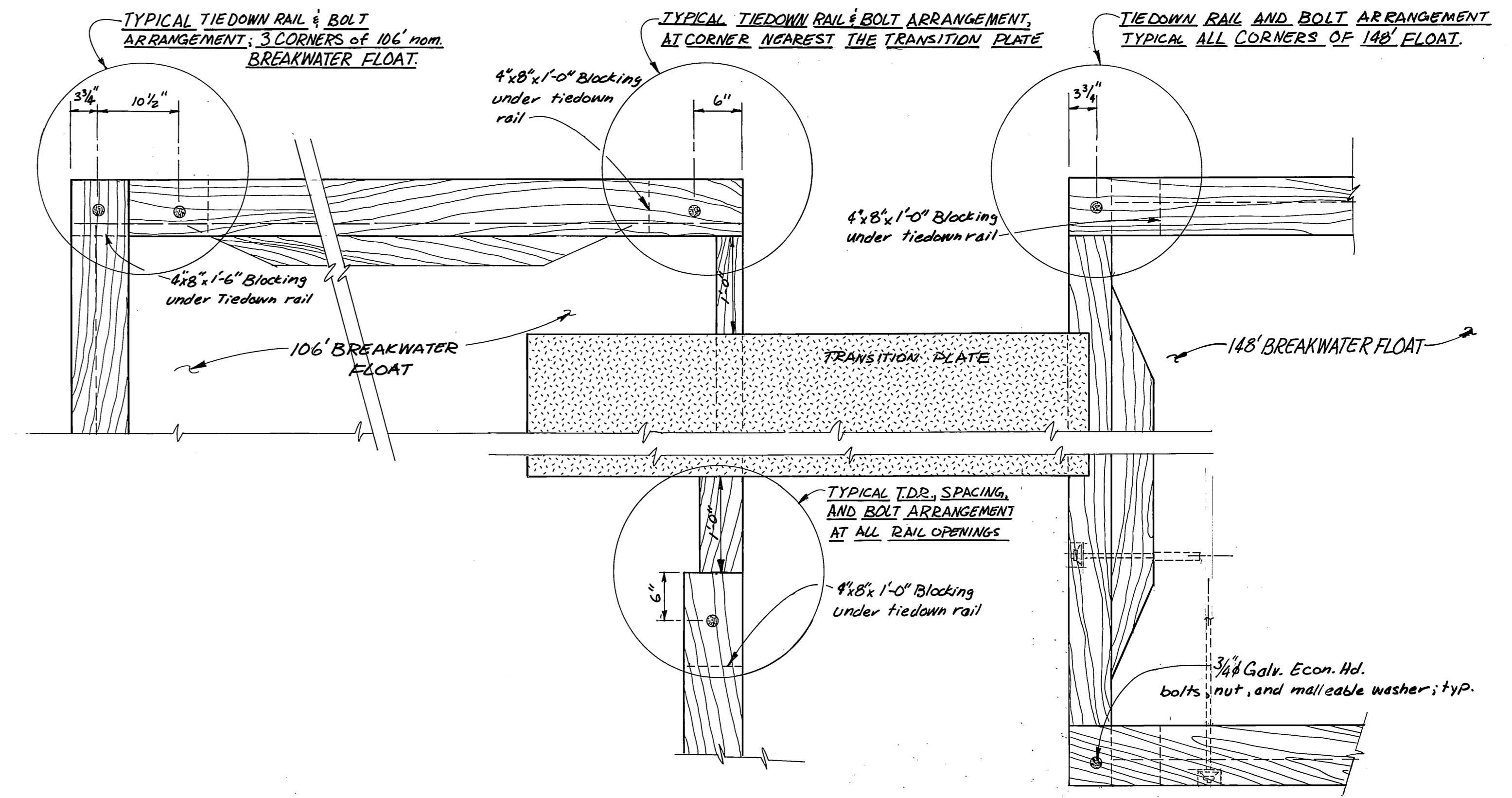
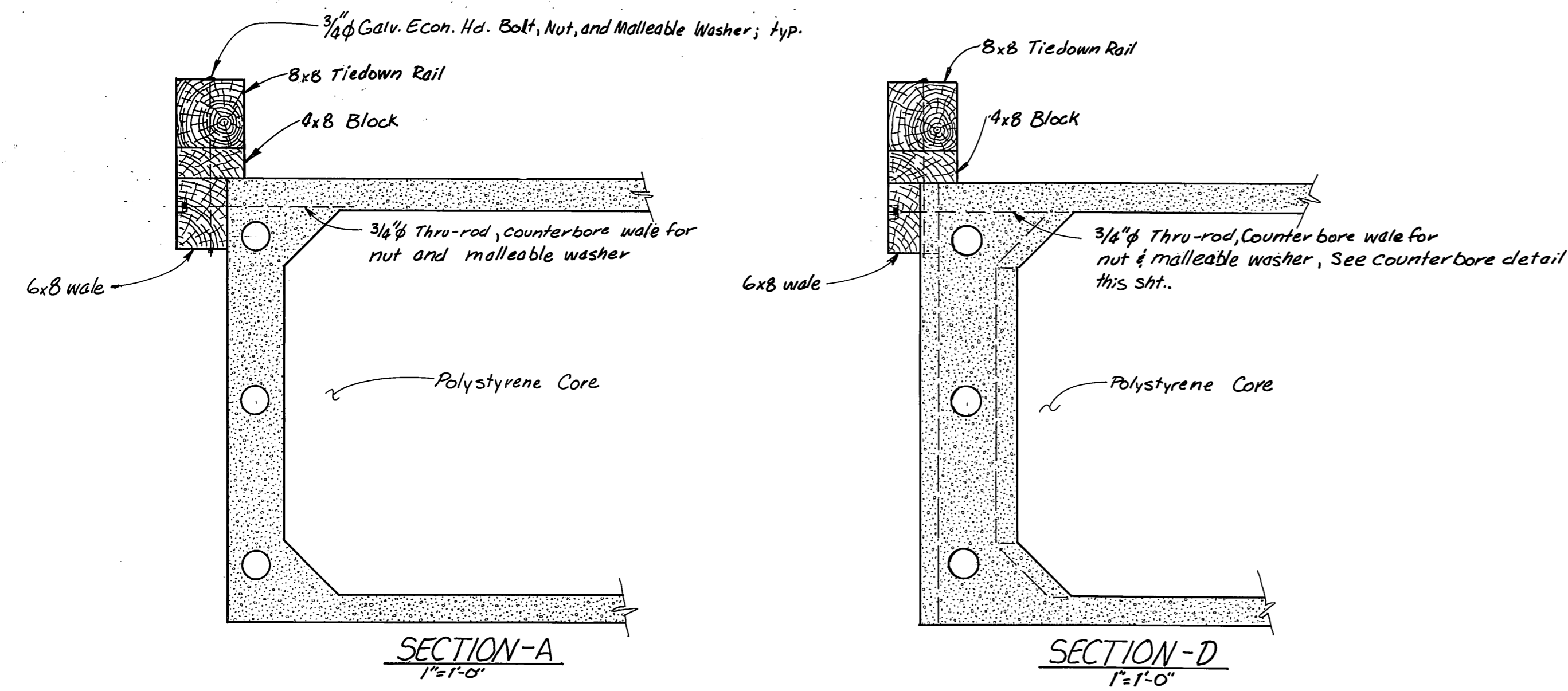


According to Pittsburg Testing Labs' inspector 6 of the milled connectors were misaligned by 1/4". The 1 1/16" holes (4 each connector) were plugged and welded. The 1 1/16" holes were redrilled to line up ends with the two gasket seat rings at an offset of 1/2". The change was directed by Cons. Tech. Corporation and later approved by Alaska DOT/PF Staff.

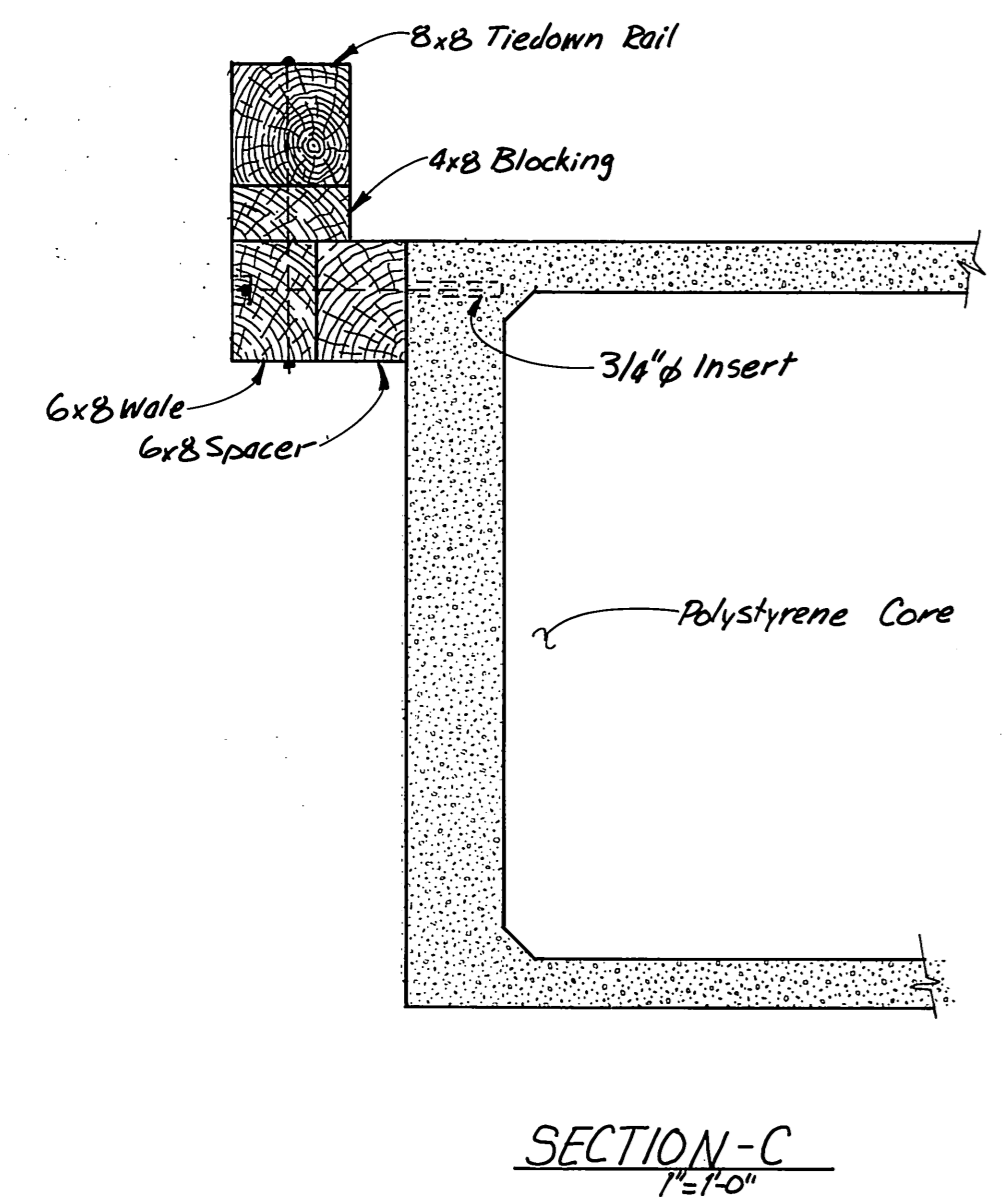
As Constructed w/n 10/10/85

| | | | |
|---|--------------------|--|--------------------|
| STAMP | | DO NOT SCALE THIS DRAWING - USE DIMENSIONS | |
| STATE OF ALASKA DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES | | | |
| KASAAN | | ALASKA | |
| POST TENSIONED BREAKWATER FLOATS END WALE AND INTERIOR CONNECTIONS | | | |
| DESIGNED <i>JDB</i> | CHECKED <i>JDB</i> | DRAWN <i>DJM</i> | DATE <i>FEB 85</i> |
| PROJECT NUMBER <i>K-3111</i> | SHEET <i>10</i> | | OF <i>14</i> |



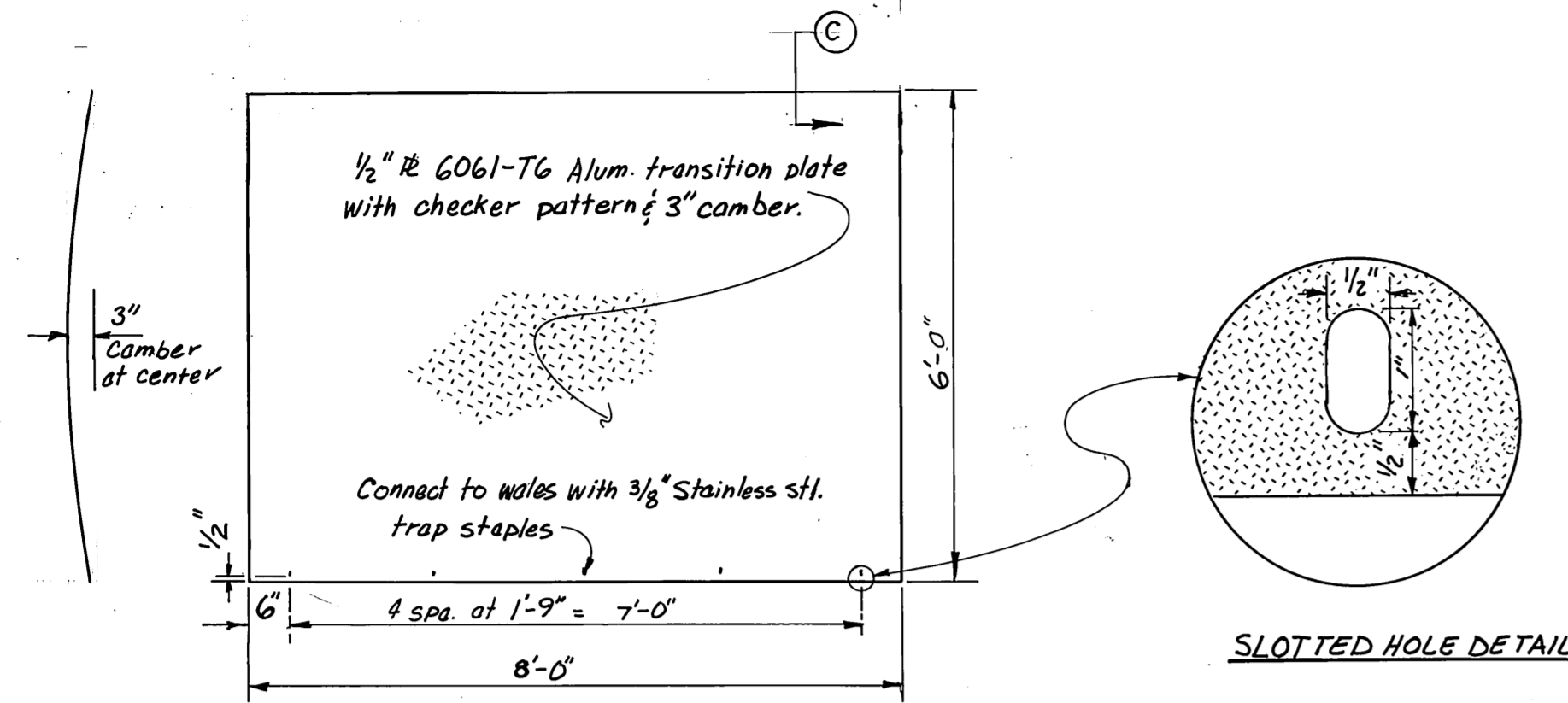


NOTE
1. Details of Counterbore as shown is applicable to all wale connections on concrete floats, including areas where spacer is not used.

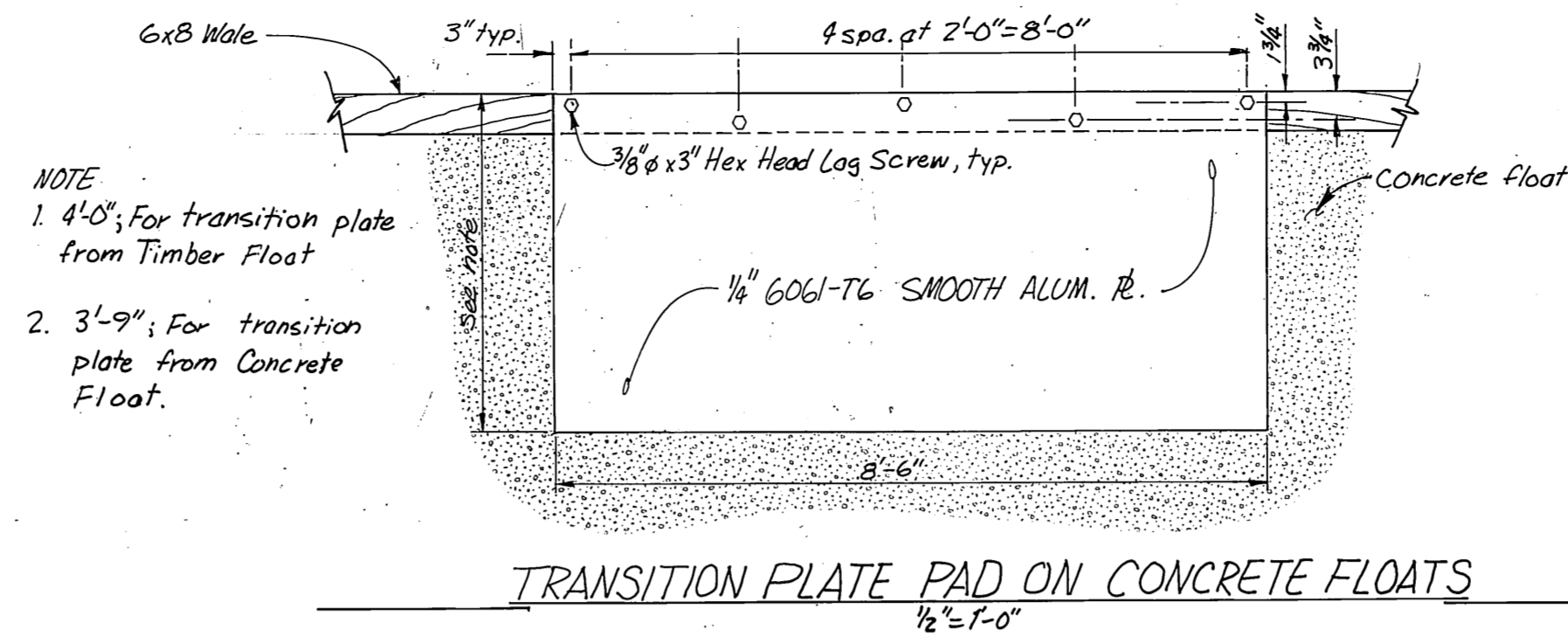


As Constructed WmN 1/9/86

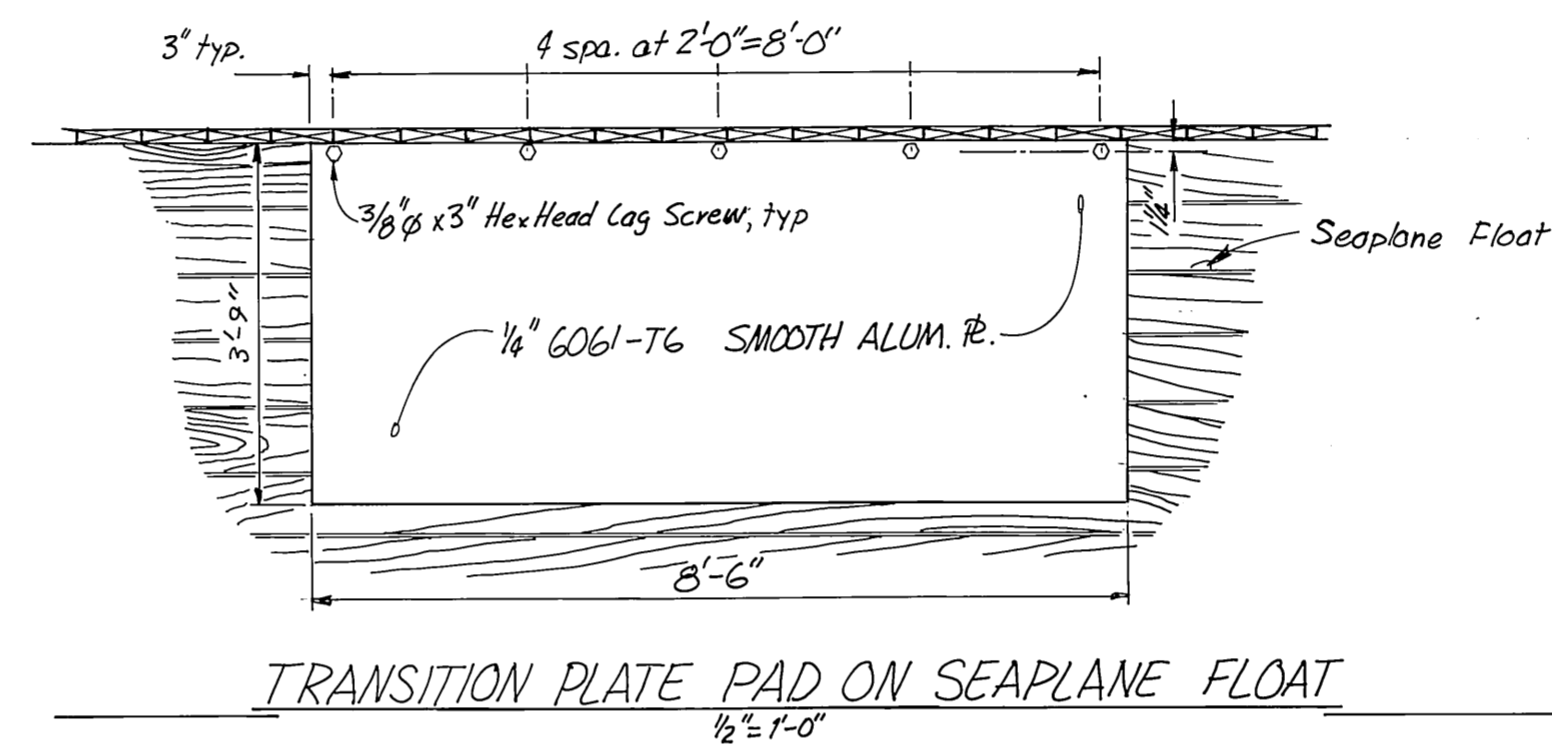
| | | | | |
|------------------------------|--|------------------|--------------------|--|
| | DO NOT SCALE THIS DRAWING - USE DIMENSIONS | | | |
| | STATE OF ALASKA | | | |
| | DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES | | | |
| | KASAAN ALASKA POST-TENSIONED BREAKWATER FLOATS TIE-DOWN, WALE, AND FENDER CONNECTION DETAILS | | | |
| DESIGNED <i>LD</i> | CHECKED <i>JDB</i> | DRAWN <i>DJM</i> | DATE <i>FEB 85</i> | |
| PROJECT NUMBER <i>K-3111</i> | SHEET <i>11</i> | | OF <i>14</i> | |



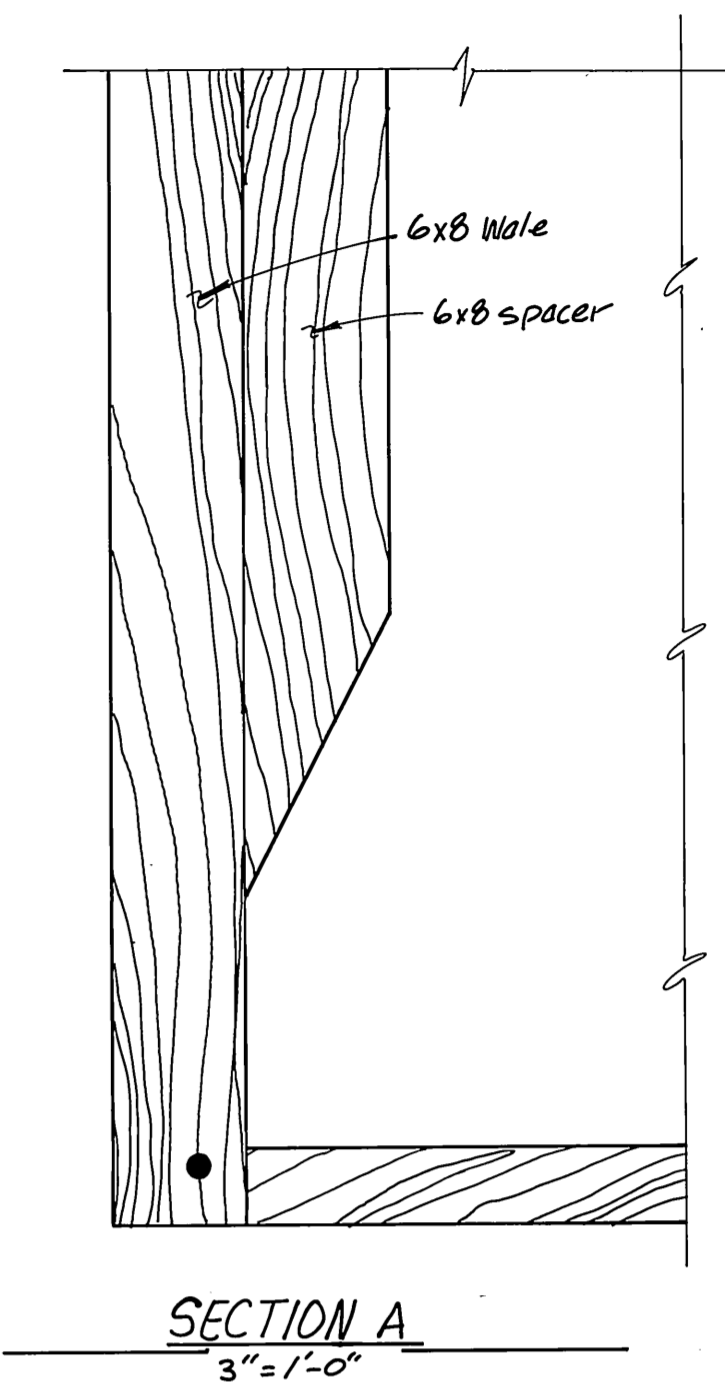
TRANSITION PLATE FROM CONCRETE FLOAT
1/2" = 1'-0"



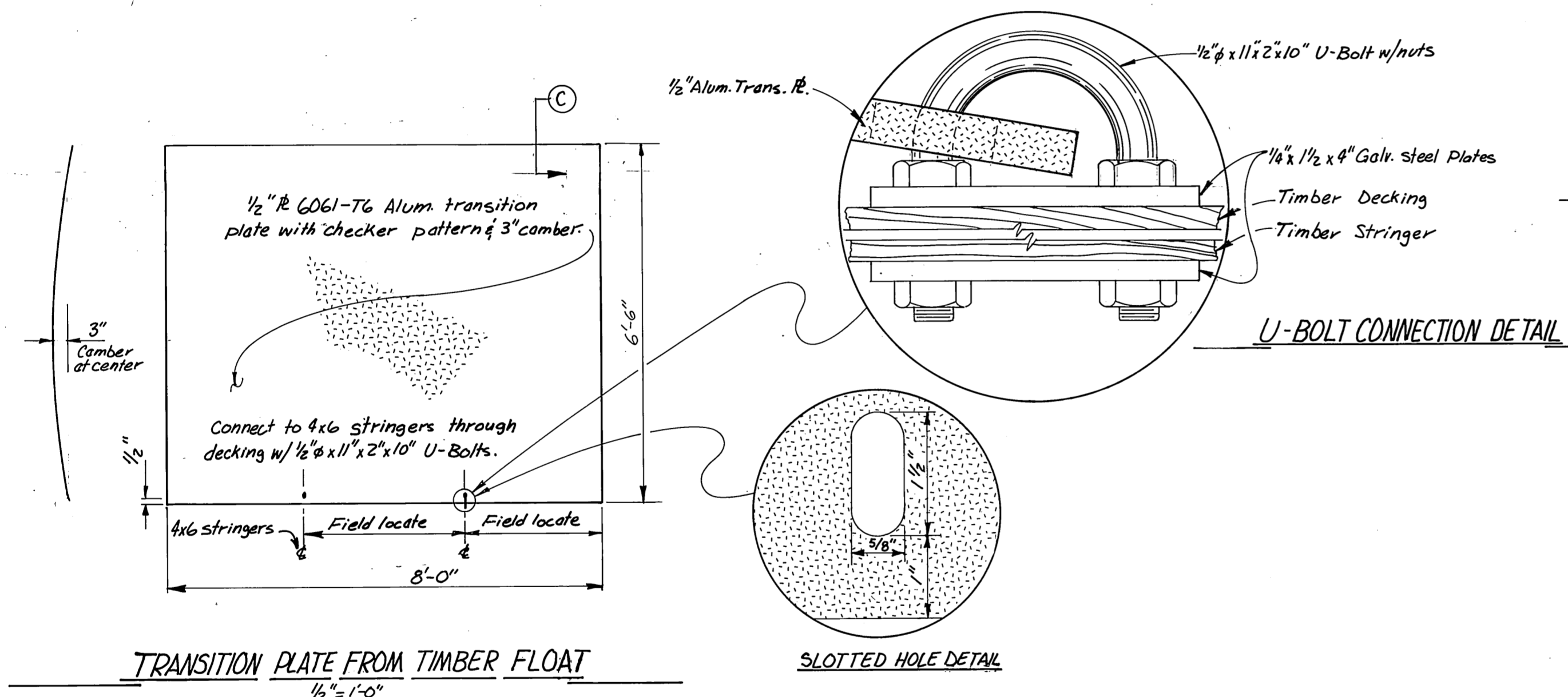
TRANSITION PLATE PAD ON CONCRETE FLOATS
1/2" = 1'-0"



TRANSITION PLATE PAD ON SEAPLANE FLOAT
1/2" = 1'-0"

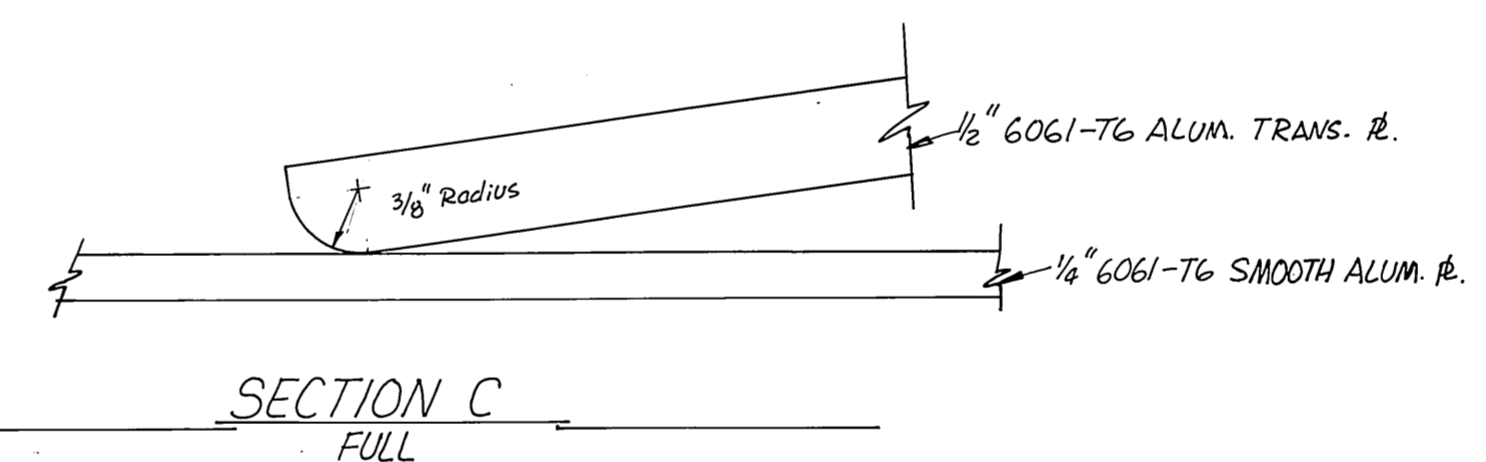


SECTION A
3" = 1'-0"

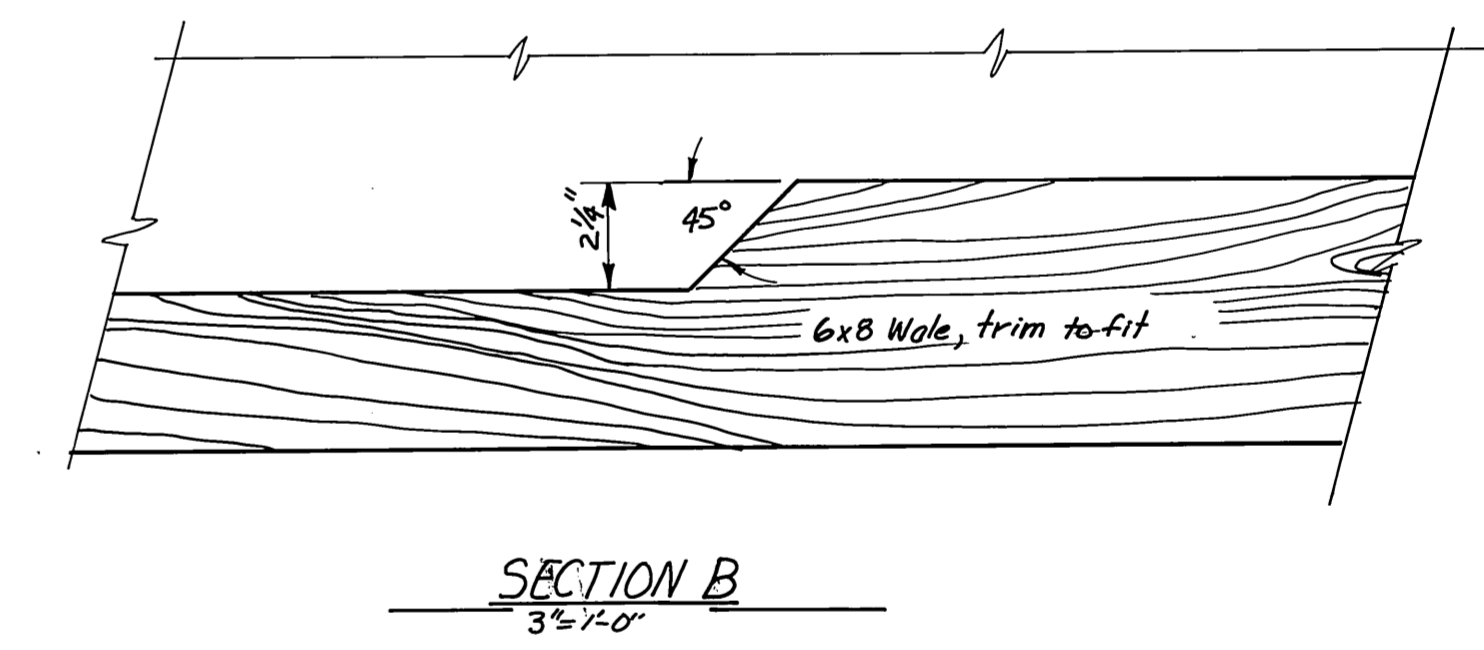


TRANSITION PLATE FROM TIMBER FLOAT
1/2" = 1'-0"

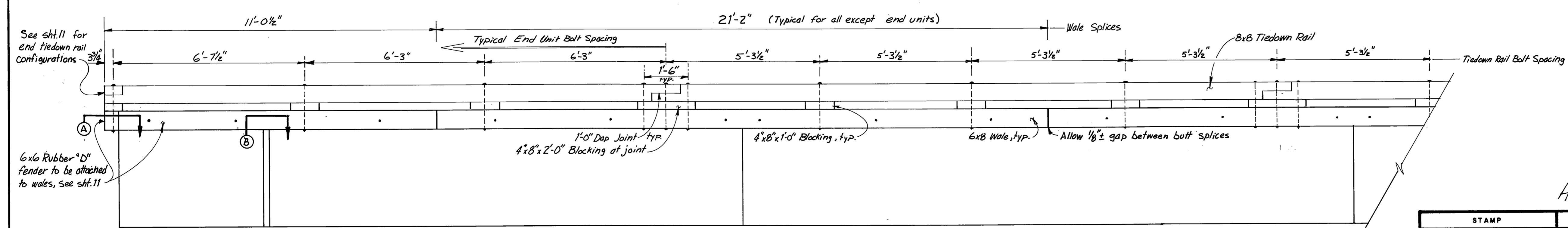
U-BOLT CONNECTION DETAIL



SECTION C
FULL



SECTION B
3" = 1'-0"



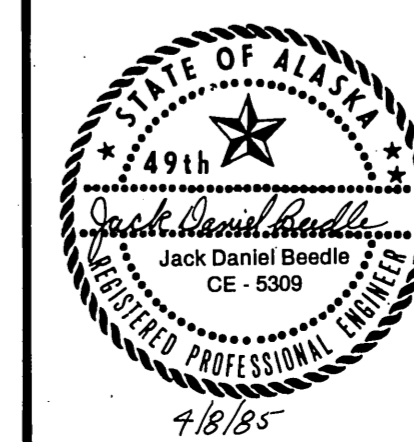
TYPICAL END UNIT

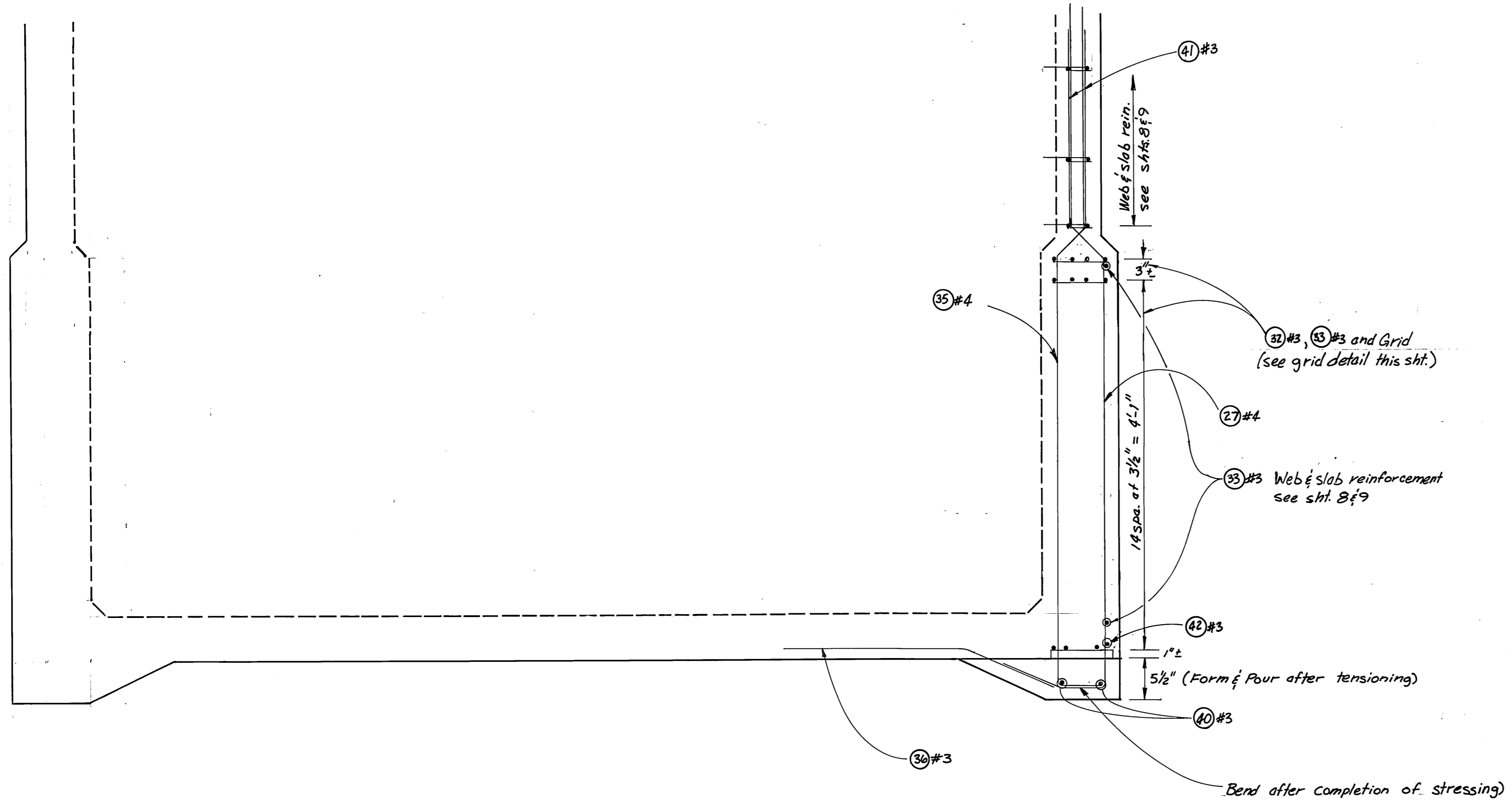
TYPICAL INTERIOR UNIT

CONCRETE FLOAT, WALE & TIEDOWN RAIL LAYOUT
1/2" = 1'-0"

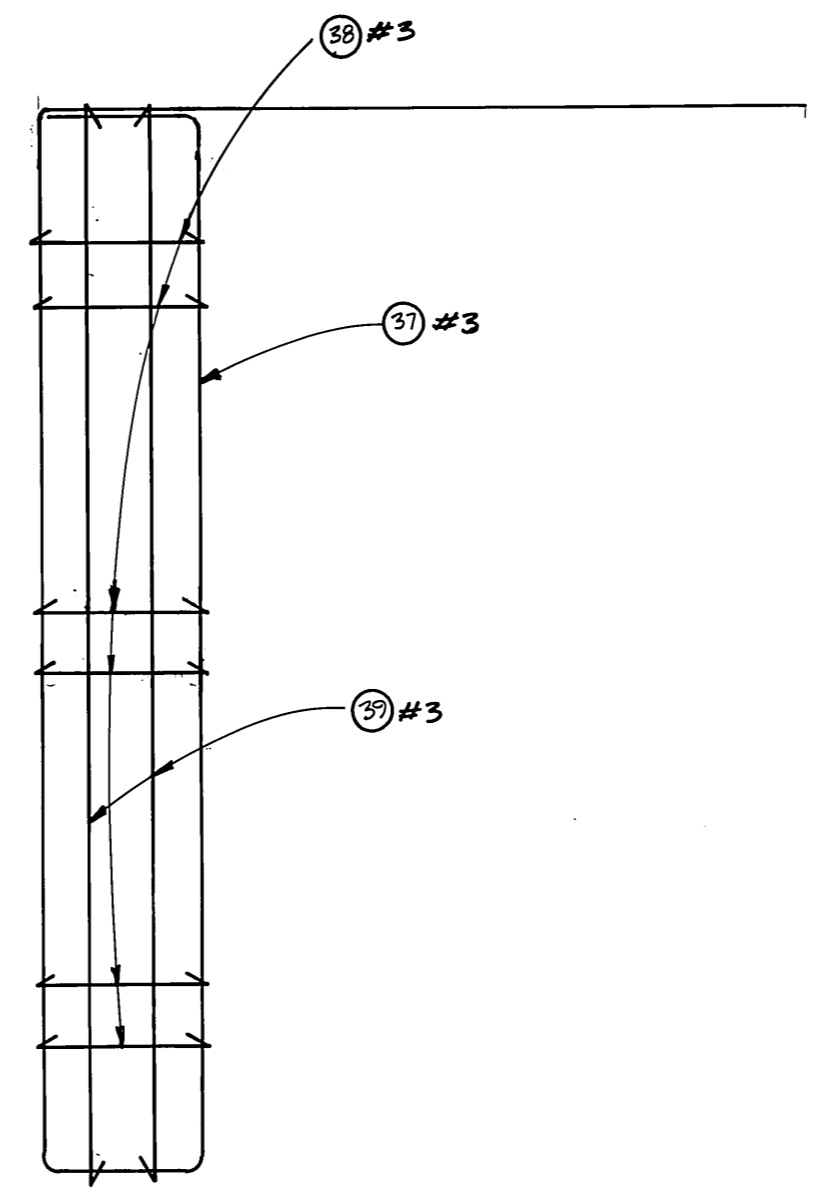
As Constructed W/N 1/4/86

| | | | |
|---|---------|--|--------|
| STAMP | | DO NOT SCALE THIS DRAWING - USE DIMENSIONS | |
| STATE OF ALASKA | | | |
| DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES | | | |
| KASAAN | | ALASKA | |
| POST TENSIONED BREAKWATER FLOATS | | | |
| TIEDOWN RAIL & WALE LAYOUT; TRANSITION PLATE DETAIL | | | |
| DESIGNED | CHECKED | DRAWN | DATE |
| JDB | JDB | DJM | JAN 85 |
| PROJECT NUMBER | SHEET | | OF |
| K-3111 | 12 | | 14 |





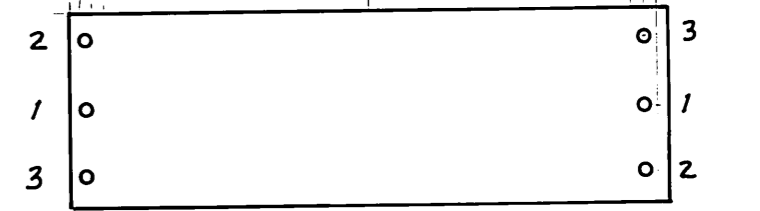
PLAN
1/2"=1'-0"



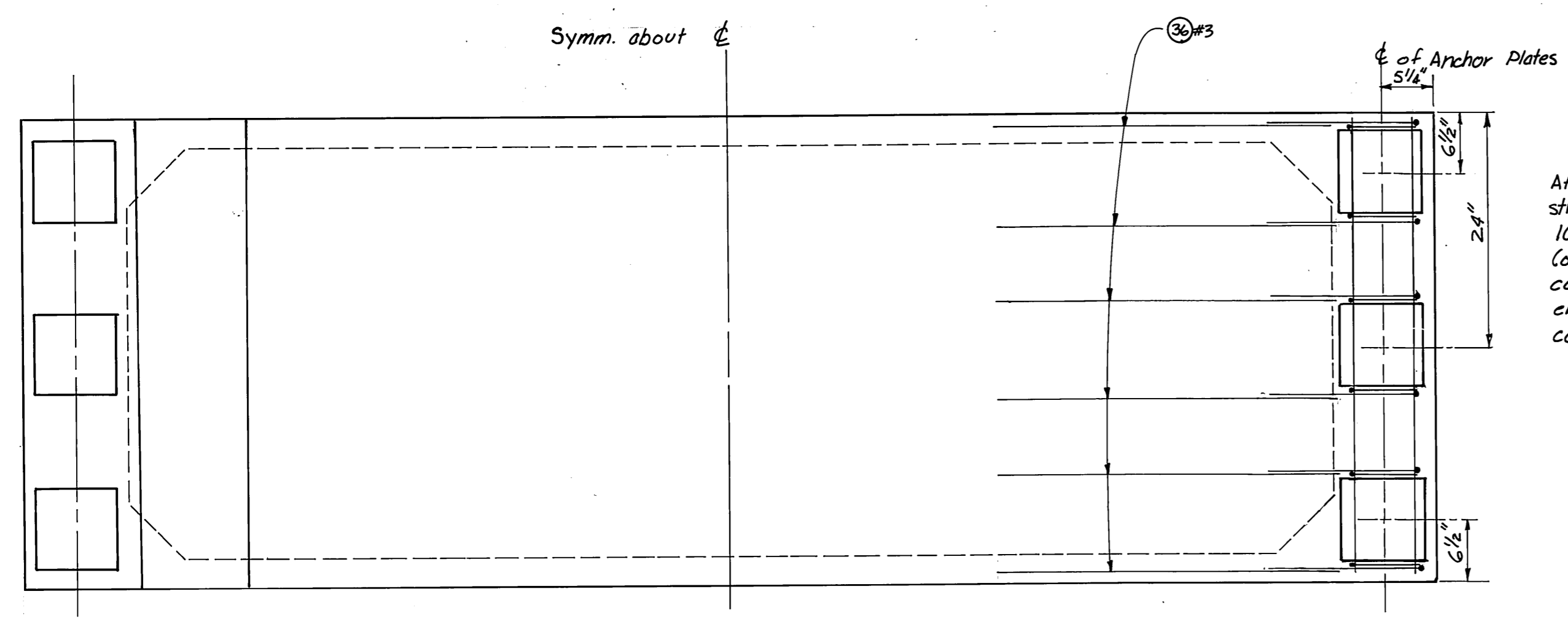
JACKING CORBEL GRID
1/2"=1'-0"

POST-TENSION NOTES

1. The minimum compressive strength of concrete at time of post tensioning shall be 5,000 psi.
2. The maximum outer diameter of duct shall be 2 1/2".
3. Duct area shall be at least twice the net area of the prestressing steel.
4. Design is based on 0.5"(nom) 5-strand tendons top and bottom and 0.5"(nom), 6-strand tendons at center.
5. The prestressing tendons shall be tensioned by jacking at each end of each tendon. Tendons shall be jacked in the sequence shown below. Like numbered tendons shall be jacked simultaneously.



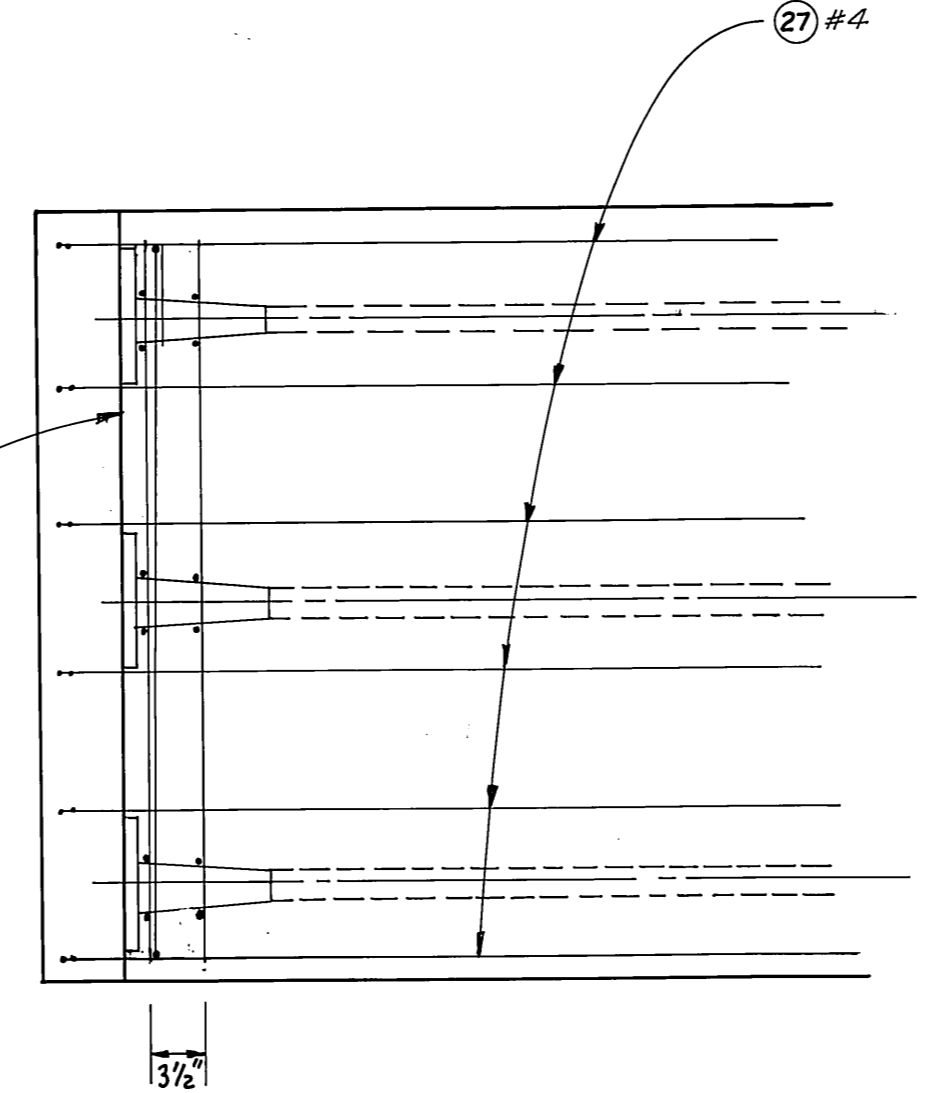
6. a) Top and bottom tendons shall be jacked to a load of 144 Kips and anchored with an anchor set of 5/8".
- b) Center tendons shall be jacked to a load of 173 Kips and anchored with an anchor set of 5/8".
7. The minimum elongation shall be 8 1/8" for the first end jacked on the 106'(nom) float and 11 7/8" for the 148'(nom) float. Jacking at the second end is a check of 1 1/4" off only and no measurable elongation is anticipated. Elongations are based on a modulus of elasticity for prestressing steel of 28,000,000 psi and a tendon length of 105.74' for the 106'(nom), float and 148.31' for the 148'(nom), float.



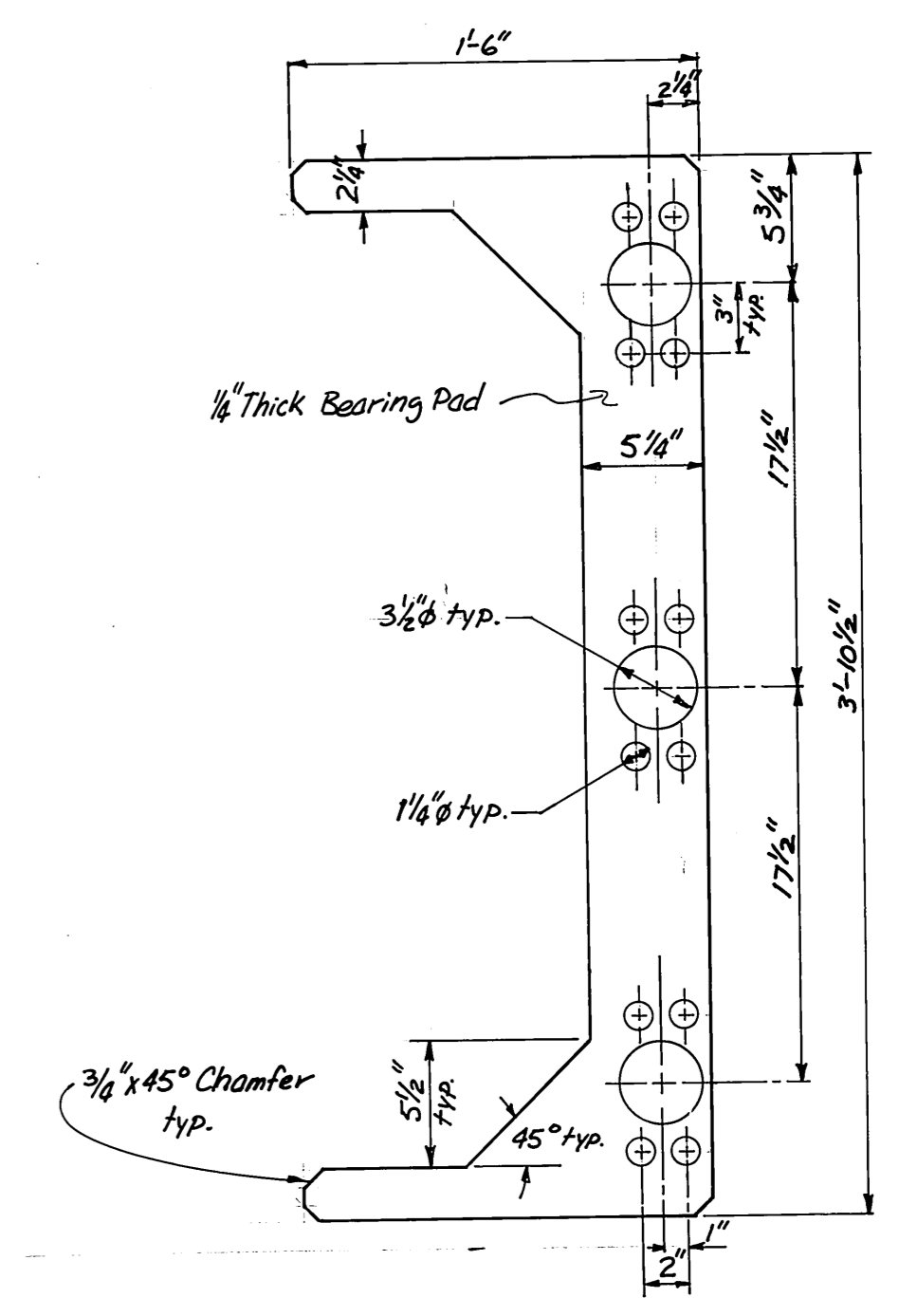
END ELEVATION
1/2"=1'-0"

TYP. END UNIT

After completion of stressing, apply concrete 1001-LPL epoxy resin, (or approved equal), to concrete surfaces and encase anchorage with concrete.



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



BEARING PAD
1/2"=1'-0"

(TWO Required per Joint)

| | | | | |
|--|---|------------------|--------------------|--|
| | DO NOT SCALE THIS DRAWING - USE DIMENSIONS | | | |
| | STATE OF ALASKA DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES KASAAN ALASKA | | | |
| POST TENSIONED CONCRETE FLOATS TENDON END ANCHORAGES & BEARING PADS | | | | |
| DESIGNED <i>LJ</i> | CHECKED <i>JDB</i> | DRAWN <i>DJM</i> | DATE <i>JAN 85</i> | |
| PROJECT NUMBER <i>K 3111</i> | SHEET <i>13</i> OF <i>14</i> | | | |

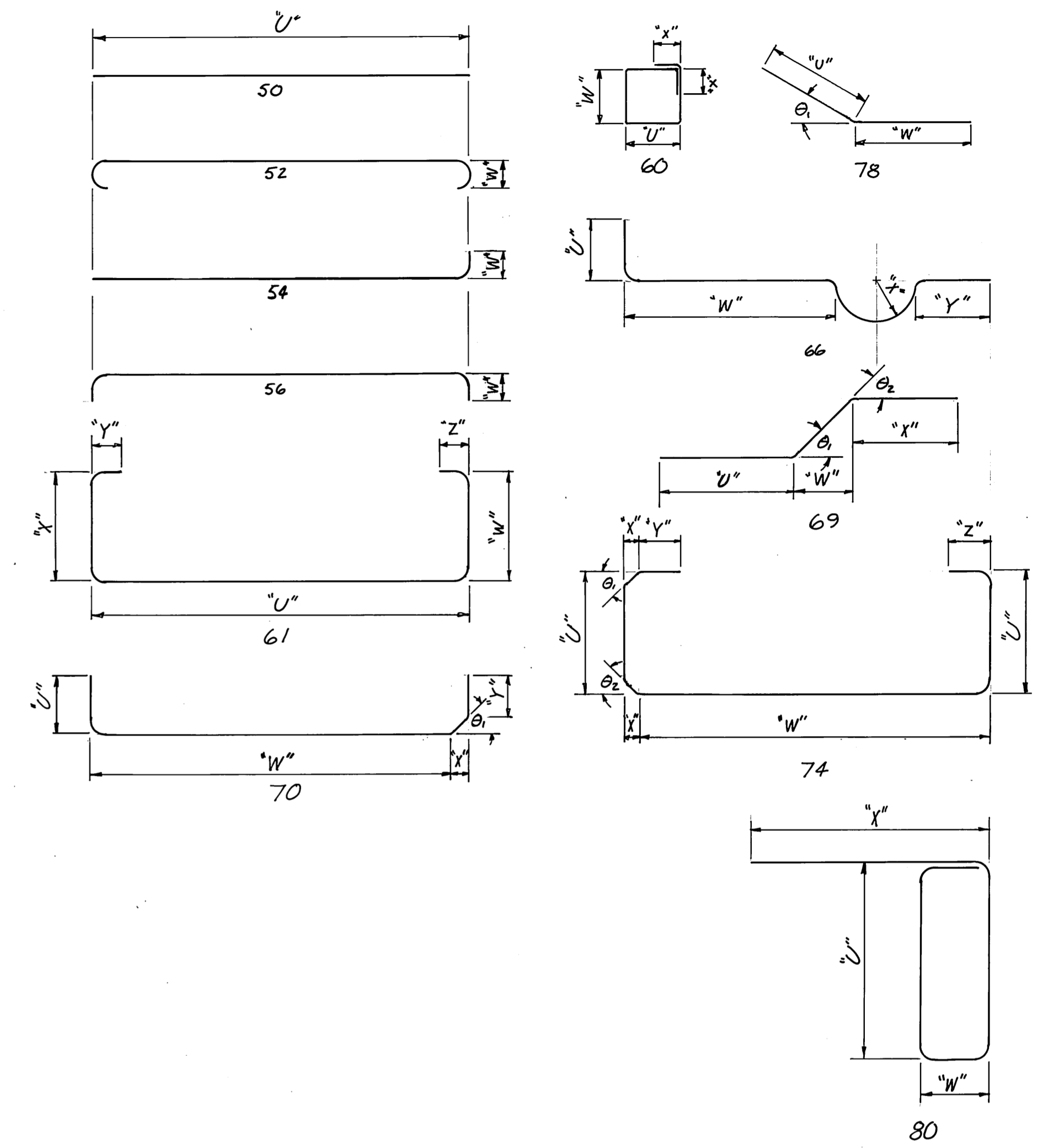
As Constructed w/nd 4/86

V=Bar dimensions vary between dimensions shown on this line and the following line.

| MARK NO. | LOCATION | SIZE | NO. REQ'D. | BEND TYPE | VARIES #/ft. each | DIMENSIONS (out to out) | | | | | | | | | | LENGTH | APPROX. WEIGHT LBS. | | |
|----------|---------------------|------|------------|-----------|-------------------|-------------------------|-----|-----|-----|-----|-----|-----|-----|-----|------|--------|---------------------|---------------------|---------------------|
| | | | | | | U | | W | | X | | Y | | Z | | | | θ ₁ Deg. | θ ₂ Deg. |
| | | | | | | FT. | IN. | FT. | IN. | FT. | IN. | FT. | IN. | FT. | IN. | | | | |
| 10 | Top & Bottom Slab | 3 | 144 | 70 | V 48 | 6.0 | 8 | 7.6 | 4.2 | 8.0 | | | 45° | 10 | 3.0 | 185 | | | |
| | | | | | 96 | 6.0 | 9 | 0.3 | 4.2 | 8.0 | | | 45° | 10 | 7.7 | 394 | | | |
| 11 | Top & Bottom Slab | 3 | 144 | 56 | | 20 | 9.6 | 7.8 | | | | | | 21 | 11.6 | 1189 | | | |
| 12 | Top & Bottom Slab | 4 | 304 | 56 | | 20 | 9.6 | 7.8 | | | | | | 21 | 11.6 | 4461 | | | |
| 13 | Top Slab | 3 | 72 | 70 | V 24 | 6.0 | 4 | 1.2 | 4.2 | 8.0 | | | 45° | 5 | 3.9 | 48 | | | |
| | | | | | 48 | 6.0 | 4 | 5.9 | 4.2 | 8.0 | | | 45° | 5 | 8.7 | 103 | | | |
| 14 | CL BEAM | 5 | 96 | 70 | | 6.0 | 8 | 8.8 | 3.3 | 8.4 | | | 45° | 10 | 0.3 | 1004 | | | |
| 15 | END DIAPHRAGM | 3 | 20 | 56 | | 11 | 6.2 | 6.0 | | | | | | 12 | 5.2 | 93 | | | |
| 16 | TOP SLAB | 3 | 220 | 56 | | 11 | 8.9 | 6.0 | | | | | | 12 | 7.8 | 1046 | | | |
| 17 | INTERIOR END DIAPH. | 3 | 20 | 61 | | 11 | 6.2 | 3 | 7.5 | 3 | 7.5 | 6.0 | 6.0 | 19 | 8.0 | 148 | | | |
| 18 | Bottom Slab & Webs | 3 | 220 | 61 | | 11 | 8.9 | 3 | 9.8 | 3 | 9.8 | 6.0 | 6.0 | 20 | 2.4 | 1676 | | | |
| 19 | Bottom Slab & Web | 3 | 72 | 74 | V 24 | 3 | 9.8 | 4 | 1.8 | 3.9 | 6.0 | 6.0 | 45° | 12 | 6.9 | 113 | | | |
| | | | | | 48 | 3 | 9.8 | 4 | 6.6 | 3.9 | 6.0 | 6.0 | 45° | 12 | 11.7 | 234 | | | |
| 20 | CL BEAM | 3 | 240 | 60 | | 6.0 | 6.0 | 3.0 | | | | | | 2 | 4.0 | 210 | | | |
| 21 | WEB | 3 | 128 | 56 | | 20 | 9.1 | 6.0 | | | | | | 21 | 7.5 | 1081 | | | |
| 22 | INTERIOR DIAPHRAGM | 3 | 192 | 56 | | 11 | 9.6 | 1 | 2.0 | | | | | 14 | 0.9 | 1016 | | | |
| 23 | INTERIOR DIAPHRAGM | 3 | 360 | 56 | | 3 | 8.6 | 1 | 2.5 | | | | | 6 | 0.5 | 818 | | | |
| 24 | INTERIOR DIAPHRAGM | 3 | 192 | 66 | | 1 | 2.0 | 4 | 5.3 | 1 | 5.5 | 1 | 0 | 11 | 0.6 | 798 | | | |
| 25 | WEB | 3 | 512 | 56 | | 3 | 9.4 | 3.0 | | | | | | 4 | 2.2 | 806 | | | |

V=Bar dimensions vary between dimensions shown on this line and the following line.

| MARK NO. | LOCATION | SIZE | NO. REQ'D. | BEND TYPE | VARIES #/ft. each | DIMENSIONS (out to out) | | | | | | | | | | LENGTH | APPROX. WEIGHT LBS. | | |
|----------|----------------------------|------|------------|-----------|-------------------|-------------------------|------|------|-----|-----|-----|-----|-------|-----|------|--------|---------------------|---------------------|---------------------|
| | | | | | | U | | W | | X | | Y | | Z | | | | θ ₁ Deg. | θ ₂ Deg. |
| | | | | | | FT. | IN. | FT. | IN. | FT. | IN. | FT. | IN. | FT. | IN. | | | | |
| 26 | INTERIOR END DIAPHRAGM WEB | 3 | 40 | 56 | | 3 | 7.2 | 3.0 | | | | | | 4 | 0 | 60 | | | |
| 27 | WEB & CORBEL | 4 | 48 | 69 | | 6 | 5.4 | 4.2 | 4 | 0 | | | 45° | 45° | 10 | 11.3 | 351 | | |
| 28 | END DIAPHRAGM | 3 | 160 | 56 | | 11 | 8.1 | 6.0 | | | | | | 12 | 7.0 | 757 | | | |
| 29 | END DIAPHRAGM | 3 | 544 | 56 | | 3 | 8.6 | 6.0 | | | | | | 4 | 7.5 | 946 | | | |
| 30 | END UNIT END DIAPHRAGM | 3 | 32 | 56 | | 12 | 0.6 | 6.0 | | | | | | 12 | 11.5 | 156 | | | |
| 32 | END UNIT TOP SLAB | 3 | 60 | 50 | | 10 | 10.2 | | | | | | | 10 | 10.2 | 245 | | | |
| 33 | END UNIT BOTTOM SLAB | 3 | 60 | 56 | | 12 | 1.4 | 10.0 | | | | | | 13 | 8.2 | 309 | | | |
| 35 | WEB & CORBEL | 4 | 48 | 69 | | 5 | 9.4 | 4.2 | 4 | 0 | | | 45° | 45° | 10 | 3.3 | 329 | | |
| 36 | ANCHOR PLATE CAP | 3 | 48 | 78 | | 1 | 6.0 | 3 | 0.0 | | | | 24.62 | 4 | 6.0 | 81 | | | |
| 37 | CORBEL | 3 | 128 | 80 | | 3 | 9.4 | 7.4 | 2 | 8.0 | | | | 11 | 3.9 | 545 | | | |
| 38 | CORBEL | 3 | 768 | 52 | | 8.1 | 1.9 | | | | | | | 1 | 2.9 | 358 | | | |
| 39 | CORBEL | 3 | 256 | 52 | | 3 | 10.1 | 1.9 | | | | | | 4 | 4.9 | 424 | | | |
| 40 | ANCHOR PLATE VERTICAL | 3 | 16 | 50 | | 3 | 9.0 | | | | | | | 3 | 9.0 | 23 | | | |
| 41 | END UNIT WEB | 3 | 64 | 54 | | 16 | 2.8 | 6.0 | | | | | | 16 | 8.2 | 402 | | | |
| 42 | END UNIT END DIAPHRAGM | 3 | 4 | 61 | | 11 | 11.6 | 3 | 7.5 | 3 | 7.5 | 6.0 | 6.0 | 20 | 1.6 | 30 | | | |
| 43 | END UNIT END DIAPHRAGM | 3 | 4 | 56 | | 11 | 11.6 | 6.0 | | | | | | 12 | 10.8 | 19 | | | |
| 44 | END UNIT TOP & BOTTOM SLAB | 4 | 32 | 54 | | 16 | 2.8 | 6.0 | | | | | | 16 | 8.2 | 357 | | | |



Dimensions given to the intersection of the tangents.
Approx 20,770# of steel to be provided.

As Constructed w/m 1/1/86

| | | | |
|--|-------------|--|--------------|
| STAMP | | DO NOT SCALE THIS DRAWING - USE DIMENSIONS | |
| STATE OF ALASKA | | | |
| DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES | | | |
| KASAAN | | ALASKA | |
| REBAR SCHEDULE | | | |
| DESIGNED <i>[Signature]</i> | CHECKED JDB | DRAWN DJM | DATE FEB '85 |
| PROJECT NUMBER K-3111 | SHEET 14 | | OF 14 |

