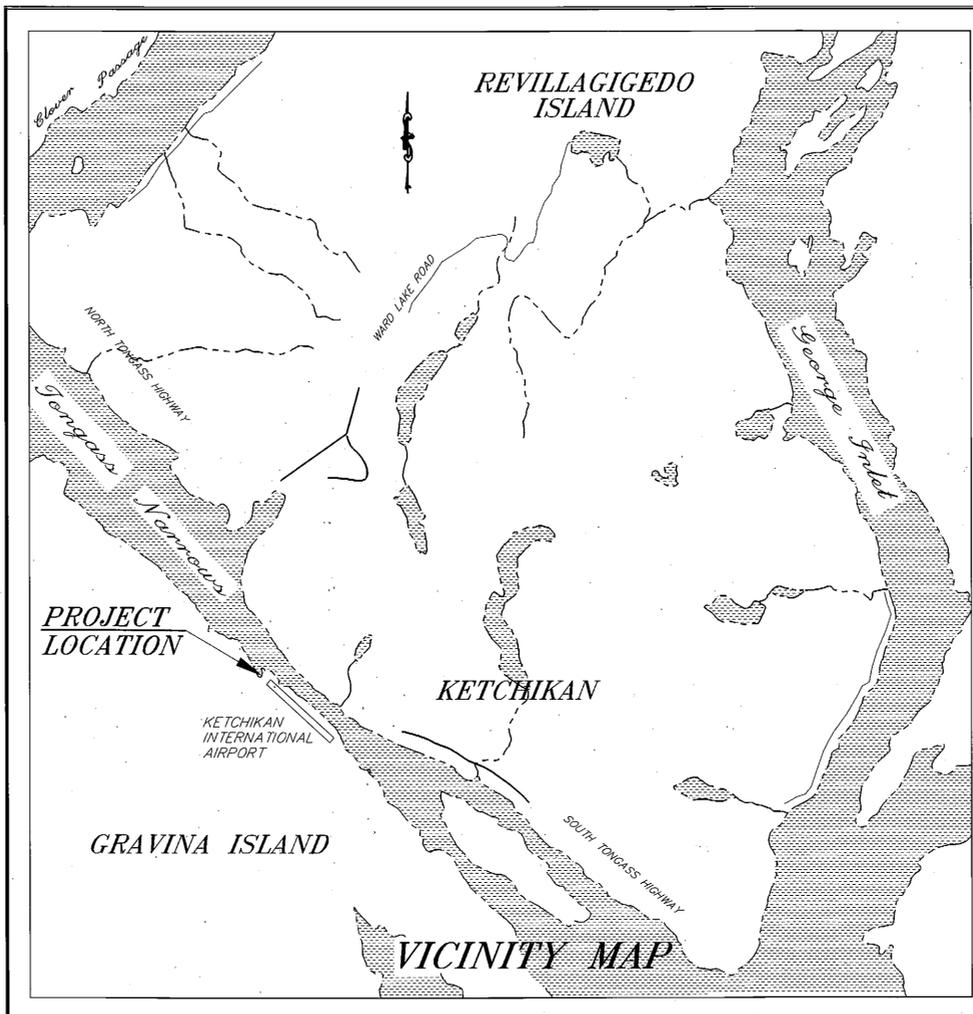


STATE OF ALASKA  
 DEPARTMENT OF TRANSPORTATION  
 AND  
 PUBLIC FACILITIES  
 SOUTHEAST REGION  
 DESIGN AND CONSTRUCTION DIVISION

KETCHIKAN, ALASKA  
**KETCHIKAN AIRPORT  
 SEAPLANE FACILITY  
 RECONSTRUCTION**  
 A.I.P. 3-02-0144-0996  
 PROJECT NO. 71952

| INDEX OF SHEETS |   |
|-----------------|---|
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| 4               | DEMOLITION PLAN   |
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THE FOLLOWING STANDARD DRAWINGS APPLY TO THIS PROJECT:

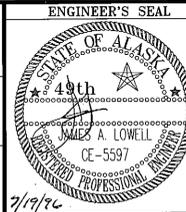
A-1, D-01.02, D-04.10, D-23.00, D-26.01, G-04.04S, S-00.00, S-05.00

"AS-BUILT" PLANS  
 CONTRACTOR: R-K Construction  
 BEGIN CONSTRUCTION: Nov. 1996  
 END CONSTRUCTION: June 1997  
 PROJECT ENGINEER: Allen Shepard  
 CONTRACT AMOUNT: \$ 3,263,134.92

STATE OF ALASKA  
 DEPARTMENT OF TRANSPORTATION  
 AND  
 PUBLIC FACILITIES  
 SOUTHEAST REGION DESIGN SECTION

APPROVED  Date 7/12/96  
 Regional Preconstruction Engineer

APPROVED  Date 7/19/96  
 Director, S.E. Region Design & Construction

|                          |  |
|--------------------------|--|
| PROJECT NUMBER:<br>71952 | ENGINEER'S SEAL<br> |
| DATE:<br>JULY, 1996      |  |
| SHEET 1 OF 44            |  |

# ESTIMATE OF QUANTITIES

# GENERAL NOTES

# NEW PILING DATA

| ITEM NO.          | ITEM  | ESTIMATED QUANTITIES    | UNIT            |
|-------------------|---|-------------------------|-----------------|
| 110               | Mobilization & Demobilization   | All Req'd               | L.S.            |
| 111(1)            | Erosion & Pollution Control Administration                                  | All Req'd               | L.S.            |
| 111(2)            | Erosion & Pollution Control   | All Req'd               | C.S.            |
| 112               | Construction Surveying by the Contractor                                    | All Req'd               | L.S.            |
| 114(1)            | Traffic Maintenance and Control   | All Req'd               | L.S.            |
| 116               | Furnishing and Maintaining Field Office                                     | All Req'd               | L.S.            |
| 120(1)            | DBE Adjustment  | All Req'd               | C.S.            |
| 201(1)            | Removal of Structures and Obstructions                                      | All Req'd               | L.S.            |
| 202(1)            | Dredging  | 5220.93 <del>6100</del> | C.Y.            |
| 202(2)            | Future Tiedown Float Dredging (Alternate C)                                 | 2990.01 <del>2225</del> | C.Y.            |
| 203(1)            | Borrow, Type A  | 0 <del>3050</del>       | C.Y.            |
| 203(2)            | Subbase   | 450                     | C.Y.            |
| 203(3)            | Crushed Aggregate Base Course   | 315                     | C.Y.            |
| 203(4)            | 18" CMP   | 50 <del>40</del>        | L.F.            |
| 203(5)            | Inlet, Type A   | 2                       | EA              |
| <del>204(1)</del> | <del>Geotextile Rip Rap Liner</del>   | <del>3150</del>         | <del>S.Y.</del> |
| 205(1)            | Rip Rap, Class IV   | 2640                    | C.Y.            |
| 205(3)            | Rip Rap, Class I  | 250                     | C.Y.            |
| 301(1)            | <del>12 3/4" x 1/2" wall Pipe Pile, Furnished</del>                         | <del>298</del>          | <del>L.F.</del> |
| 301(2)            | 12 3/4" x 1/2" wall Pipe Pile, Driven                                       | 9                       | EA.             |
| 301(3)            | <del>30" x 1/2" wall Pipe Pile, Furnished</del>                             | <del>603</del>          | <del>L.F.</del> |
| 301(4)            | 30" x 1/2" wall Pipe Pile, Driven   | 12                      | EA.             |
| 301(5)            | <del>12 3/4" x 1/2" wall Pipe Pile Rock Sockets, Furnished</del>            | <del>All Req'd</del>    | <del>L.S.</del> |
| 301(6)            | <del>12 3/4" x 1/2" wall Pipe Pile Rock Sockets, Installed</del>            | <del>7</del>            | <del>EA.</del>  |
| 301(7)            | <del>30" x 1/2" wall Pipe Pile Rock Sockets, Furnished</del>                | <del>All Req'd</del>    | <del>L.S.</del> |
| 301(8)            | <del>30" x 1/2" wall Pipe Pile Rock Sockets, Installed</del>                | <del>12</del>           | <del>EA.</del>  |
| 301(9)            | <del>12 3/4" x 1/2" wall Pipe Pile, Furnished (Alternate B)</del>           | <del>57</del>           | <del>L.F.</del> |
| 301(10)           | <del>12 3/4" x 1/2" wall Pipe Pile, Driven (Alternate B)</del>              | <del>1</del>            | <del>EA.</del>  |
| 301(11)           | <del>12 3/4" x 1/2" wall Pipe Pile Rock Sockets, Furnished (Alt. B)</del>   | <del>All Req'd</del>    | <del>L.S.</del> |
| 301(12)           | <del>12 3/4" x 1/2" wall Pipe Pile Rock Sockets, Installed (Alt. B)</del>   | <del>1</del>            | <del>EA.</del>  |
| 302(1)            | New Float Restraint Structure Caps, Furn., Fabr. & Erected                  | All Req'd               | L.S.            |
| 302(2)            | New Pedestrian & Vehicle Bridge, Furn., Fabr. & Erected                     | All Req'd               | L.S.            |
| 302(3)            | New Pipe Handrail, Furn., Fabr. & Erected                                   | All Req'd               | L.S.            |
| 302(4)            | New Covered Walkway (Alternate A), Furn., Fabr. & Erected                   | All Req'd               | L.S.            |
| 306(1)            | Reconstruct Existing Timber Rail  | All Req'd               | L.S.            |
| 308(1)            | <del>Prestressed Pile Anchors (30" piles)</del>                             | <del>12</del>           | <del>EA.</del>  |
| 311(1)            | Furnish & Install New 70' x 340' Seaplane Float                             | All Req'd               | L.S.            |
| 311(2)            | Furnish & Install New 24' x 40' Bridge Support Float                        | All Req'd               | L.S.            |
| 311(3)            | Furnish & Install New 6' x 300' Pullout Float                               | All Req'd               | L.S.            |
| 311(4)            | <del>Furnish &amp; Install New 28' x 66' Ramp Seaplane Float (Alt. B)</del> | <del>All Req'd</del>    | <del>L.S.</del> |
| 312(1)            | Furnish & Install Concrete Ramp Planks                                      | 17                      | EA              |
| 312(2)            | Construct Pullout Float Abutment  | All Req'd               | L.S.            |
| 501(1)            | Electrical Power & Lighting   | All Req'd               | L.S.            |
| 502(1)            | Construct Passenger Waiting Shelter   | All Req'd               | L.S.            |
| 601(1)            | W-Beam Guardrail  | 295.7 <del>286</del>    | L.F.            |
| 602(1)            | Concrete Sidewalk & Bridge Approach Slab                                    | 152.85 <del>173</del>   | S.Y.            |
| 603(1)            | Curb & Gutter   | 97 <del>95</del>        | L.F.            |
| 606(1)            | Signs   | 39                      | S.F.            |

Specifications: Per Contract Documents for Project No. A.I.P. 3-02-0144-0996/71952  
 Construction: Per Contract Documents for Project No. A.I.P. 3-02-0144-0996/71952

Design Standards: AKDOT/PF & SOUTHEAST REGION MARINE ENGINEERING DESIGN STANDARDS

Design Loads: Float Restraint Structures: Current @ 2 knots  
 Wave Loading: 4' x 4 sec wave  
 Wind Load: 35 psf x Projected Area of Aircraft

Seaplane Float: Current @ 2 knots  
 Wave Loading: 4' x 4 sec wave  
 AASHTO H10-44  
 Wind Load: 35 psf x Projected Area of Aircraft

Vehicle Bridge AASHTO H10-44  
 Pedestrian Ramps: LL - 85 psf

Design Unit Stresses:  
 Steel: A36  $F_s = 20$  Ksi  
 A252 Gr. 2  $F_s = 19.25$  Ksi  
 A500 Gr. B  $F_s = 25$  Ksi  
 A572  $F_s = 27$  Ksi  
 A108  $F_s = 29$  Ksi  
 A608 Gr. D  $F_s = 30$  Ksi

Concrete: Min. 28 day strength  $F_c$ : Class A-A = 5 ksi. & Class A = 4 ksi.  
 Reinforcement:  $F_y = 60$  ksi

Materials: Steel: Tube Sections A500 Gr. B  
 Pile A252 Gr. 2, A501 or A53, Gr. B, type E or S  
 Pipe A53, Gr. B, type E or S  
 Stainless Type 302, 304 or 316  
 All other shall be A36 or A572 as noted.  
 Charpy Group 2 impact requirements shall apply.

Concrete: Class A-A & Class A per Section 304

Timber: Per Section 306

Protective Coatings: Pedestrian Gangways: Painted per Sec. 303 (System 5) after fabrication.

Pipe Piles and Structural Steel Restraint Caps, Weldments, Rails and Hardware: Galvanized after fabrication

Reinforcing Steel: Per Section 307

Piling: Size: 12 3/4" x 1/2" & 30" x 1/2" wall steel piles

Tips: Reinforced tips w/ APF 0-14000 or APF 0-14001 Drive Shoes or Approved Equal. Drive Shoes Are Required On All Piling.

Driving Requirements: (See table this sheet)

As-Built Drawings: As-Built Drawings Of The Existing Seaplane Facility And Other Structures, Pile Driving Logs and Probe Information From the 1970 Ketchikan Airport Construction Project ADAP 71-1(8-02-0144-01)71 Are Available For Inspection By Prospective Bidders At The Southeast Region D & C Offices, 6860 Glacier Highway, In Juneau, AK. Contact Jim Lowell or Bill Nelson At (907)465-8884.

| PILE LOCATION STRUCTURE ORIENTATION & (pile tip) | L<br>I<br>S | DIA<br>Inches | CAPACITY (TONS) |        | ELEVATIONS     |         | TIP ELEVATIONS |      | TOTAL ESTIMATED LENGTH |
|--|-------------|---------------|-----------------|--------|----------------|---------|----------------|------|------------------------|
|  |             |               | BEARING         | UPLIFT | APPROX MUDLINE | CUT-OFF | MIN.           | EST. |                        |
| FLOAT RESTRAINT STRUCTURE "A"                    |             |               |                 |        |                |         |                |      |                        |
| Vertical (Prestressed Anchor)                    | 4           | 30            | 55              | 55     | -12            | 29.30   | -17            | -17  | 185                    |
| FLOAT RESTRAINT STRUCTURE "B"                    |             |               |                 |        |                |         |                |      |                        |
| Vertical (Prestressed Anchor)                    | 4           | 30            | 55              | 55     | -16            | 29.30   | -21            | -21  | 201                    |
| FLOAT RESTRAINT STRUCTURE "C"                    |             |               |                 |        |                |         |                |      |                        |
| Vertical (Prestressed Anchor)                    | 4           | 30            | 55              | 55     | -20            | 29.30   | -25            | -25  | 217                    |
| FP1  |             |               |                 |        |                |         |                |      |                        |
| Vertical   | 1           | 12.75         | N/A             | N/A    | 18             | 30.00   | 3              | 3    | 27                     |
| FP2  |             |               |                 |        |                |         |                |      |                        |
| Vertical   | 1           | 12.75         | N/A             | N/A    | 14             | 30.00   | -1             | -1   | 31                     |
| FP3  |             |               |                 |        |                |         |                |      |                        |
| Vertical   | 1           | 12.75         | N/A             | N/A    | 10             | 30.00   | -5             | -5   | 35                     |
| FP4  |             |               |                 |        |                |         |                |      |                        |
| Vertical   | 1           | 12.75         | N/A             | N/A    | 6              | 30.00   | -9             | -9   | 39                     |
| FP5  |             |               |                 |        |                |         |                |      |                        |
| Vertical   | 1           | 12.75         | N/A             | N/A    | 3              | 30.00   | -12            | -12  | 42                     |
| FP6  |             |               |                 |        |                |         |                |      |                        |
| Vertical   | 1           | 12.75         | N/A             | N/A    | -1             | 30.00   | -16            | -16  | 46                     |
| FP7  |             |               |                 |        |                |         |                |      |                        |
| Vertical   | 1           | 12.75         | N/A             | N/A    | -5             | 30.00   | -20            | -20  | 50                     |
| FP8 (ALT. B)                                     |             |               |                 |        |                |         |                |      |                        |
| Vertical   | 1           | 12.75         | N/A             | N/A    | -12            | 30.00   | -27            | -27  | 57                     |
| Abutment1  |             |               |                 |        |                |         |                |      |                        |
| Vertical   | 1           | 12.75         | N/A             | N/A    | 19             | 19.62   | 6              | 6    | 14                     |
| Abutment2  |             |               |                 |        |                |         |                |      |                        |
| Vertical   | 1           | 12.75         | N/A             | N/A    | 19             | 19.62   | 6              | 6    | 14                     |

| Estimate of Quantities |  |          |                 |
|------------------------|--|----------|-----------------|
| Item No.               | Item   | Quantity | Unit            |
| 301(13)                | 16" x 1/2" Wall Pipe Piles, Driven                       | C.O.1    | 4 Each          |
| 301(14)                | 16" x 1/2" Wall Pipe Piles, Furnished                    | C.O.1    | 236.5 L.F.      |
| 301(15)                | 16" x 1/2" Wall Pipe Pile Sockets, Furnished & Installed | C.O.1    | 4 Each          |
| 301(16)                | 12 3/4" x 1/2" Wall Pipe Pile Sockets, Installed         | C.O.1    | 5 Each          |
| 301(17)                | 30" x 1/2" Wall Pipe Pile Sockets, Installed             | C.O.1    | 12 Each         |
| 301(18)                | 12 3/4" x 1/2" Wall Pipe Piles, Furnished                | C.O.1    | 319.4 L.F.      |
| 301(19)                | 30" x 1/2" Wall Pipe Piles, Furnished                    | C.O.1    | 757.5 L.F.      |
| 302(5)                 | Vehicle Access Bridge Guardrail                          | C.O.2    | All Req'd. L.S. |
| 302(6)                 | Vehicle Access Bridge Caulking                           | C.O.3    | All Req'd. L.S. |
| 302(7)                 | Seaplane Float Bulltrails                                | C.O.5    | All Req'd. L.S. |
| 311(5)                 | 30' x 156' Ramped Float                                  |          | 4,600 S.F.      |
| 311(6)                 | 6' x 20' Pullout Float, Furnished & Installed            |          | 3 Each          |
| 311(7)                 | Pullout Float Transition Plate                           | C.O.2    | All Req'd. L.S. |
| 501(2)                 | Ramped Float Power & Lighting                            | C.O.7    | All Req'd. L.S. |
| 502(2)                 | Waiting Shelter Modifications                            | C.O.6    | All Req'd. L.S. |

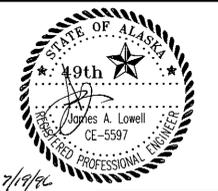
NOTE: DO NOT SCALE FROM THESE PLANS-USE DIMENSIONS

| RECORD OF REVISIONS |      |                       |
|---------------------|------|-----------------------|
| NO.                 | DATE | DESCRIPTION OF CHANGE |
|                     |      |                       |
|                     |      |                       |
|                     |      |                       |

STATE OF ALASKA  
 DEPARTMENT OF TRANSPORTATION  
 AND PUBLIC FACILITIES  
 SOUTHEAST REGION DESIGN & CONSTRUCTION

KETCHIKAN  
 KETCHIKAN AIRPORT SEAPLANE FACILITY RECONSTRUCTION  
 PROJECT NO. A.I.P. 3-02-0144-0996/71952  
**QUANTITIES & GENERAL NOTES**

ALASKA  
 DESIGNED BY: JAL  
 DRAWN BY: JAL  
 CHECKED BY: JAL  
 PROJECT NO. 71952  
 DATE: MAY 1996  
 SHEET 2 OF 44



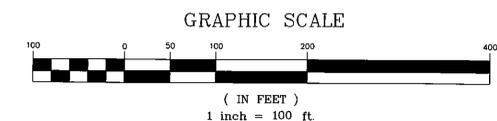
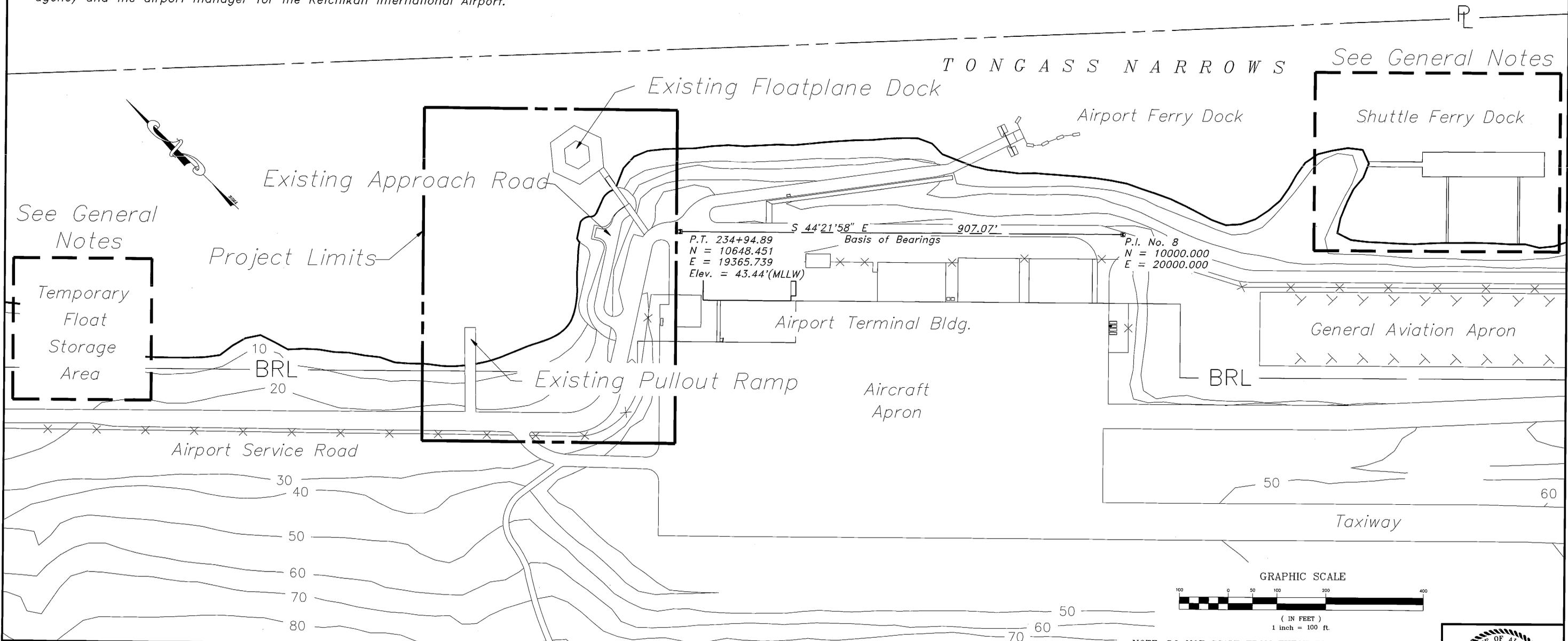
GENERAL NOTES - MAINTENANCE OF TRAFFIC:

The contractor shall be responsible for the construction of a temporary seaplane facility. The temporary facility shall be constructed at the existing shuttle ferry dock located approximately 1/8 of a mile southeast of the existing Airport Ferry Dock. The existing Shuttle Ferry Dock is comprised of a floating concrete barge with approximate dimensions of 30'x260'. The freeboard of the floating barge varies between 3.5 to 5 feet. A 100 foot transfer span is attached at the northern end of the floating structure. The concrete barge is secured to the shoreline with circular pipe struts. The contracting agency will make available 2 - 24'x36' timber float modules for the contractors use in constructing the temporary facility. The float components are currently stockpiled at an upland site approximately 3/8 of a mile northwest of the Airport Ferry Dock. The contractor shall modify and/or reconstruct the float modules as necessary to provide 72' of tie-up face. The contractor shall be responsible for transporting the float units and other components to the temporary facility site and constructing access platforms and gangways required to provide a complete and accessible seaplane facility. The contractors proposed methods, attachments and erection details shall be subject to review and approval by the contracting agency and the airport manager for the Ketchikan International Airport.

No dredging or demolition of the existing floatplane dock will be allowed until the temporary facilities are in place and serviceable. The contractor shall also maintain access to the existing seaplane pullout ramp. Access shall be preserved for that portion of the ramp from mean tide level (Elev. 8.0 MLLW) and above. The contractor shall provide a temporary facility which complies with the minimum requirements of the American w/ Disabilities Act. At such time that the reconstructed seaplane float and access is accepted for maintenance of traffic, the contractor shall remove the temporary seaplane facility and return the floats and components to the stockpile site. The contractor shall also remove any attachments made to the Shuttle Ferry Dock and return the facility to its prior condition. The contractor shall also be responsible for disposing of all materials and construction not furnished by the contracting agency. Payment for all work required to construct and remove the temporary seaplane facility shall be made under Pay Item 114(1).

TIDAL DATA

Estimated Extreme High Water = 20.80 feet  
 Mean Higher High Water = 15.40 feet  
 Mean High Water = 14.50 feet  
 Mean Tide Level = 8.00 feet  
 Mean Low Water = 1.50 feet  
 Mean Lower Low Water = 0.00 feet  
 Estimated Extreme Low Water = -5.00 feet



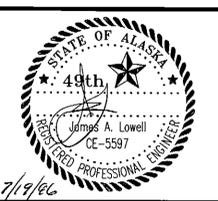
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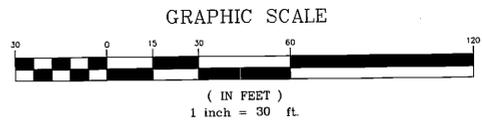
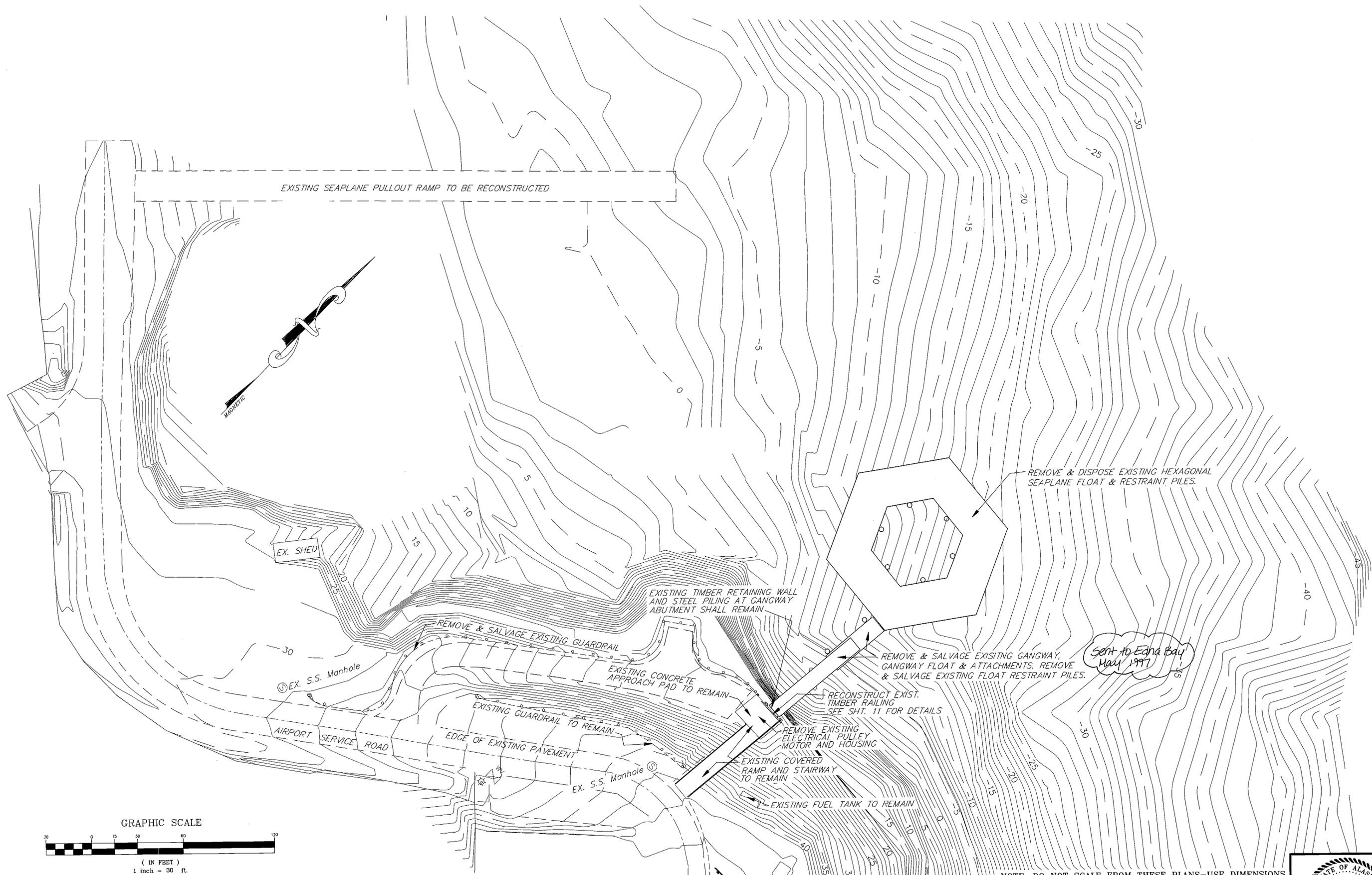
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| <b>RECORD OF REVISIONS</b>   |       |                        |

STATE OF ALASKA  
 DEPARTMENT OF TRANSPORTATION  
 AND PUBLIC FACILITIES  
 SOUTHEAST REGION DESIGN & CONSTRUCTION

KETCHIKAN ALASKA  
 KETCHIKAN AIRPORT SEAPLANE FACILITY RECONSTRUCTION  
 PROJECT NO. A.I.P. 3-02-0144-0996/71952  
**EXISTING LAYOUT & TRAFFIC MAINTENANCE**

|              |     |               |          |
|--------------|-----|---------------|----------|
| DESIGNED BY: | JAL | PROJECT NO.   | 71952    |
| DRAWN BY:    | JAL | DATE:         | MAY 1996 |
| CHECKED BY:  | JAL | SHEET 3 OF 44 | 7/19/96  |





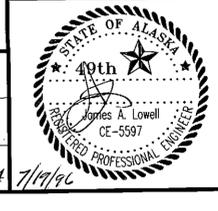
NOTE: DO NOT SCALE FROM THESE PLANS—USE DIMENSIONS

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| BY:                          | DATE: | DESCRIPTION OF CHANGE: |
|                              |       |                        |
| RECORD OF REVISIONS          |       |                        |

STATE OF ALASKA  
 DEPARTMENT OF TRANSPORTATION  
 AND PUBLIC FACILITIES  
 SOUTHEAST REGION DESIGN & CONSTRUCTION

KETCHIKAN ALASKA  
 KETCHIKAN AIRPORT SEAPLANE FACILITY RECONSTRUCTION  
 PROJECT NO. A.I.P. 3-02-0144-0996/71952  
**DEMOLITION PLAN**

|              |     |               |          |
|--------------|-----|---------------|----------|
| DESIGNED BY: | JAL | PROJECT NO.   | 71952    |
| DRAWN BY:    | JAL | DATE:         | MAY 1996 |
| CHECKED BY:  | JAL | SHEET 4 OF 44 | 7/19/96  |



**BASIS OF CONTROL**

**HORIZONTAL CONTROL**

THE BASIS OF HORIZONTAL CONTROL FOR THIS PROJECT IS THE RECORD BEARING OF S. 44°21'58"E, BETWEEN A 3" ALUMINUM MONUMENT AT PT 234+94.89, LOCATED IN THE ASPHALT IN FRONT OF THE TERMINAL BUILDING, AND A 2" BRASS CAP AT P1#8 STA. 244+01.44, LOCATED IN THE SERVICE ROAD BY THE RAMP TO THE SEAPLANE FACILITY.

THE BASIS OF COORDINATES IS THE MONUMENT AT PT 234+94.89 WITH PROJECT COORDINATES OF N. 10648.451, E. 19365.739.

**VERTICAL CONTROL**

THE BASIS OF VERTICAL CONTROL FOR THIS PROJECT IS THE MONUMENT AT PT 234+94.89 WITH AN ACCEPTED FIFVATION OF 43.44' ABOVE M.I.W. THIS OBSERVATION WAS DERIVED FROM A SERIES OF TIDAL OBSERVATIONS TAKEN ON OCT. 29 & 30, 1986. CONTRACTOR TO VERIFY.

SEE SHEETS 22-25 FOR 70'x340' SEAPLANE FLOAT

SEE SHEETS 29 & 30 FOR FLOAT RESTRAINT STRUCTURES

\* FURNISH & INSTALL CO<sub>2</sub> FIRE EXTINGUISHER, CART & CABINET. SEE SHEET 28 FOR DETAILS

EDGE OF 70'x340' FLOAT STA. "0" 14+11.88

SEE SHEET 21 FOR BRIDGE SUPPORT FLOAT

CORNER OF FLOAT STA. "0" 14+11.88 53.0' RT.

SEE SHEET 26 FOR PASSENGER-WAITING SHELTER

SEE SHEETS 15-20 FOR PED/VEH ACCESS BRIDGE

SEE SHEETS 22-25 FOR 70'x340' SEAPLANE FLOAT

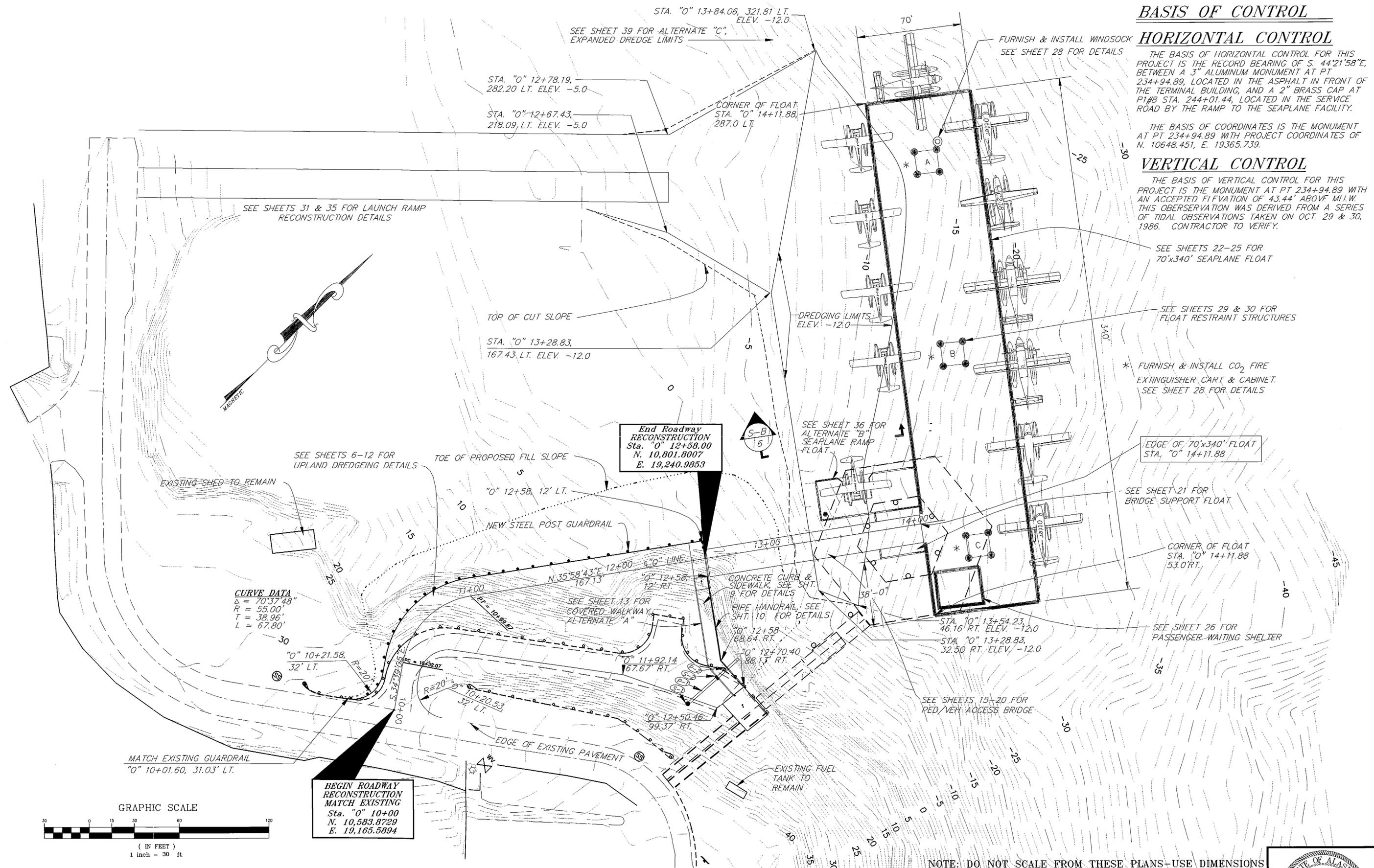
SEE SHEETS 29 & 30 FOR FLOAT RESTRAINT STRUCTURES

SEE SHEET 21 FOR BRIDGE SUPPORT FLOAT

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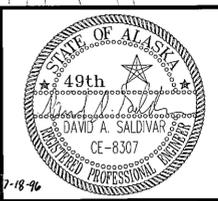
NOTE: DO NOT SCALE FROM THESE PLANS-USE DIMENSIONS

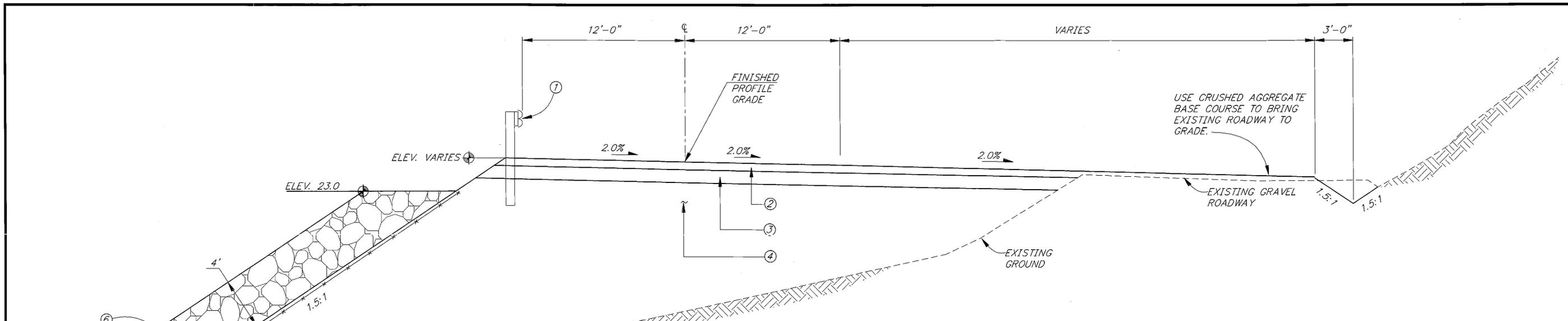
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| BY:   | DATE: | DESCRIPTION OF CHANGE: |
|   |       |                        |

STATE OF ALASKA  
 DEPARTMENT OF TRANSPORTATION  
 AND PUBLIC FACILITIES  
 SOUTHEAST REGION DESIGN & CONSTRUCTION

KETCHIKAN  
 KETCHIKAN AIRPORT  
 SEAPLANE FACILITY RECONSTRUCTION  
 PROJECT NO. 71952  
 ALASKA  
**PLAN**

|              |             |               |            |
|--------------|-------------|---------------|------------|
| DESIGNED BY: | D. SALDIVAR | PROJECT NO.   | 71952      |
| DRAWN BY:    | AUTOCADD    | DATE:         | JUNE, 1996 |
| CHECKED BY:  | J.A.L.      | SHEET 5 OF 44 | 7-18-96    |





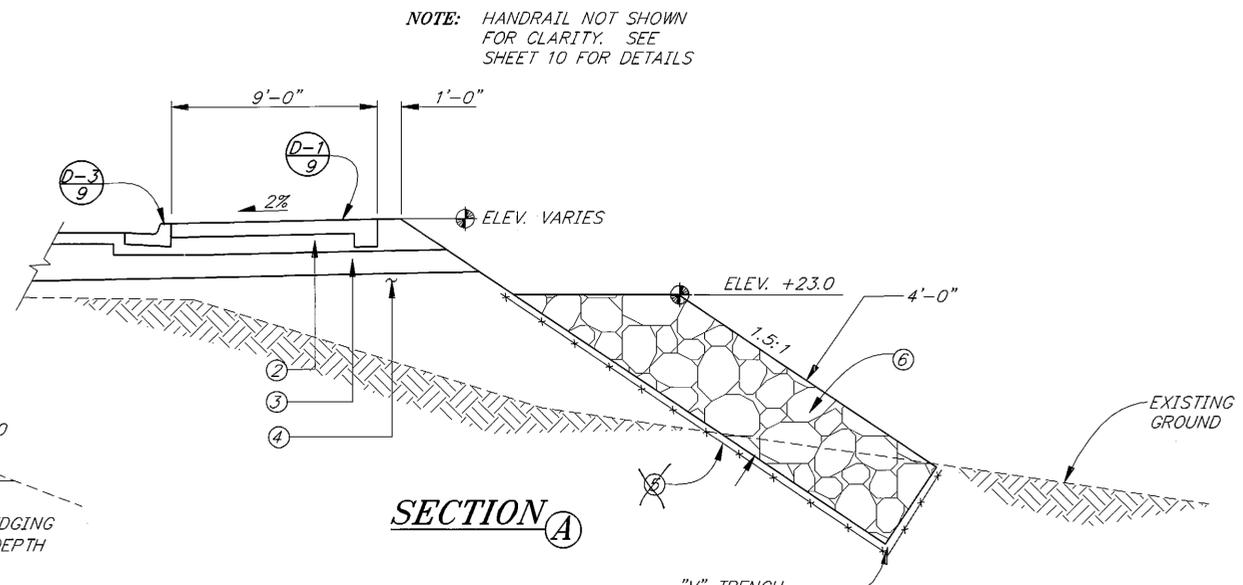
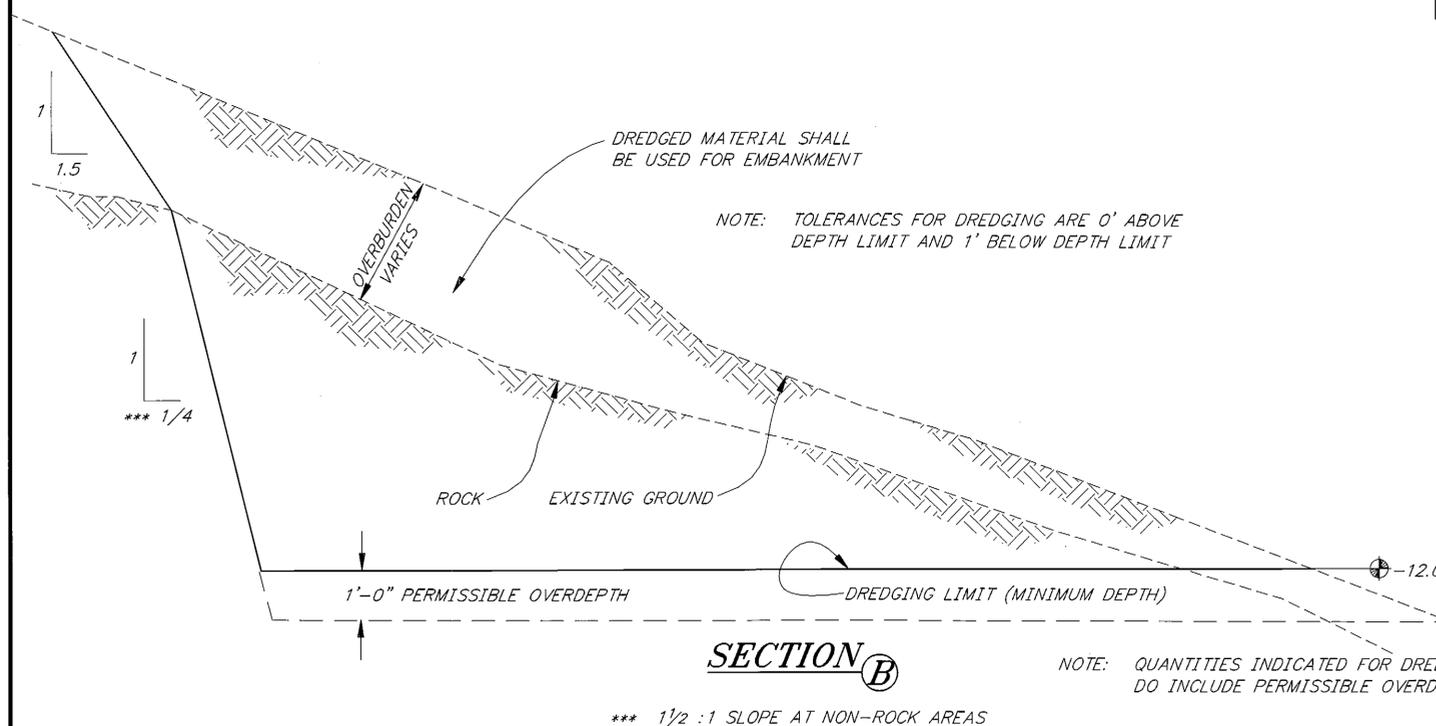
**TYPICAL SECTION**  
**STA. "0" 10+00 TO STA. "0" 12+58**

**LEGEND**

- ① GUARDRAIL, 7' STEEL POST \*
- ② 6" CRUSHED AGGREGATE BASE COURSE
- ③ 12" SUBBASE, GRADING "A"
- ④ BORROW, TYPE A OR USEABLE UNCLASSIFIED EXCAVATION \*\*
- ⑤ GEOTEXTILE, RIPRAP LINER
- ⑥ RIPRAP, CLASS IV

\*MODIFY THE LENGTH OF GUARDRAIL POST IN THE STANDARD DRAWING G-04-04S TO SHOW 7 FEET LONG.

\*\*AFTER ALL USEABLE EXCAVATION FROM THE BASIN DREDGING HAS BEEN UTILIZED, BORROW TYPE A SHALL BE USED TO BRING THE REMAINING EMBANKMENT UP TO THE REQUIRED GRADE.



NOTE: HANDRAIL NOT SHOWN FOR CLARITY. SEE SHEET 10 FOR DETAILS

NOTE: QUANTITIES INDICATED FOR DREDGING DO INCLUDE PERMISSIBLE OVERDEPTH

NOTE: DO NOT SCALE FROM THESE PLANS—USE DIMENSIONS

|   |       |                        |
|---|-------|------------------------|
| PATH: P:\KTN\71952\DR\ -TYP1                          |       |                        |
| PLOT: P:\ -LIB\ -PLOT\ PLOT.F.PCP(4) OR PLOT.F.PCP(8) |       |                        |
| BY:   | DATE: | DESCRIPTION OF CHANGE: |
|   |       |                        |
| <b>RECORD OF REVISIONS</b>                            |       |                        |

STATE OF ALASKA  
 DEPARTMENT OF TRANSPORTATION  
 AND PUBLIC FACILITIES  
 SOUTHEAST REGION DESIGN & CONSTRUCTION

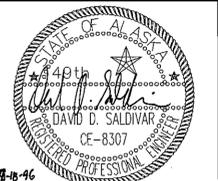
KETCHIKAN

KETCHIKAN AIRPORT  
 SEAPLANE FACILITY RECONSTRUCTION  
 PROJECT NO. 71952  
**ROADWAY TYPICAL SECTION**

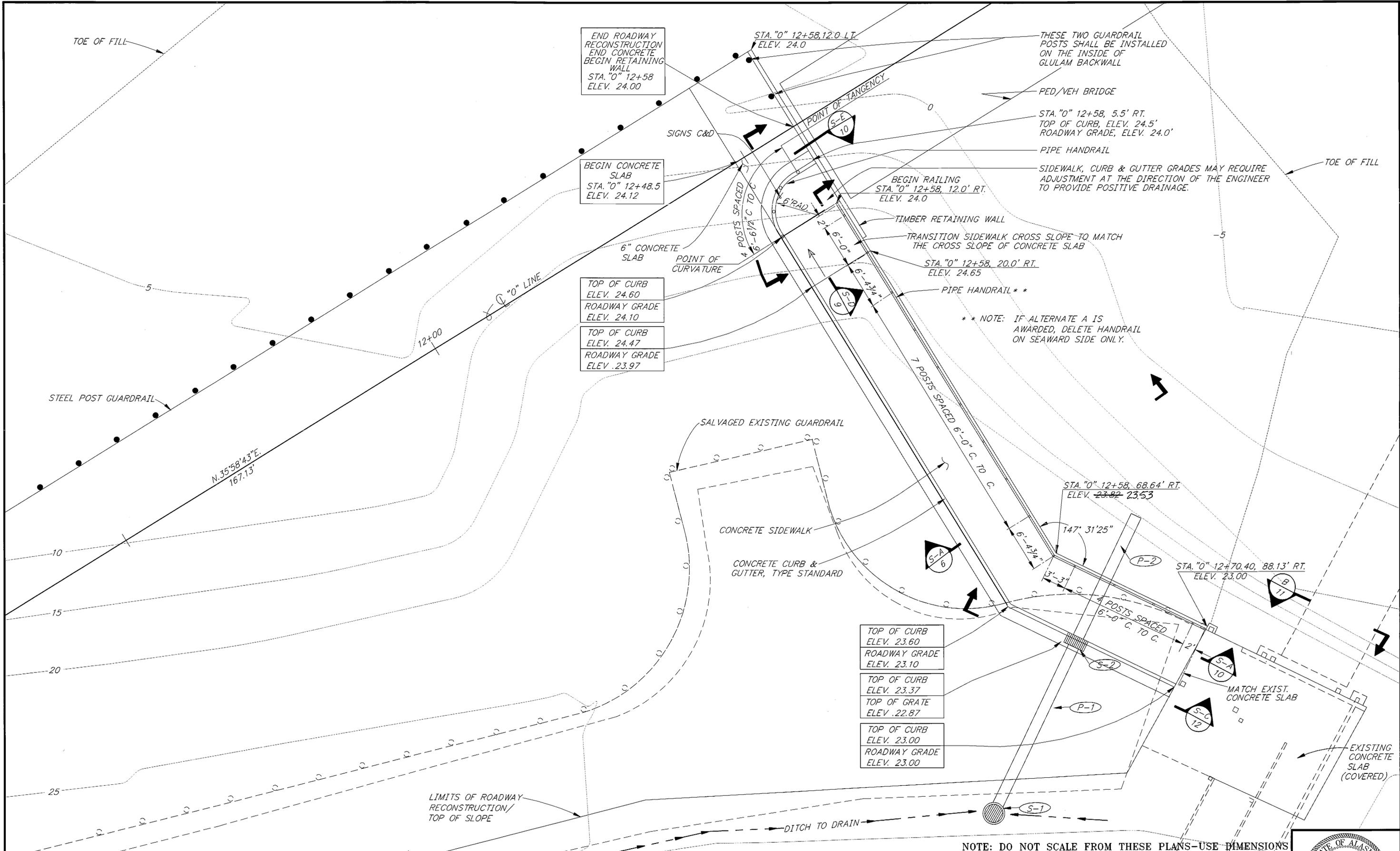
ALASKA

DESIGNED BY:  
 D. SALDIVAR  
 DRAWN BY:  
 C. ANDERSON  
 CHECKED BY:  
 JAL

PROJECT NO.  
 71952  
 DATE:  
 JUNE, 1996  
 SHEET 6 OF 44







NOTE: DO NOT SCALE FROM THESE PLANS—USE DIMENSIONS

|  |       |                        |
|--|-------|------------------------|
| PATH: P: \KTN\71952\DR\—RAIL3                        |       |                        |
| PLOT: P: \—LIB\—PLOT\—PLOT.F.PCP(6) OR PLOTH.PCP(12) |       |                        |
| BY:  | DATE: | DESCRIPTION OF CHANGE: |
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| <b>RECORD OF REVISIONS</b>                           |       |                        |

STATE OF ALASKA  
 DEPARTMENT OF TRANSPORTATION  
 AND PUBLIC FACILITIES  
 SOUTHEAST REGION DESIGN & CONSTRUCTION

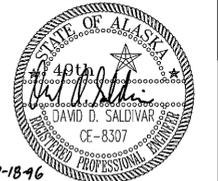
KETCHIKAN

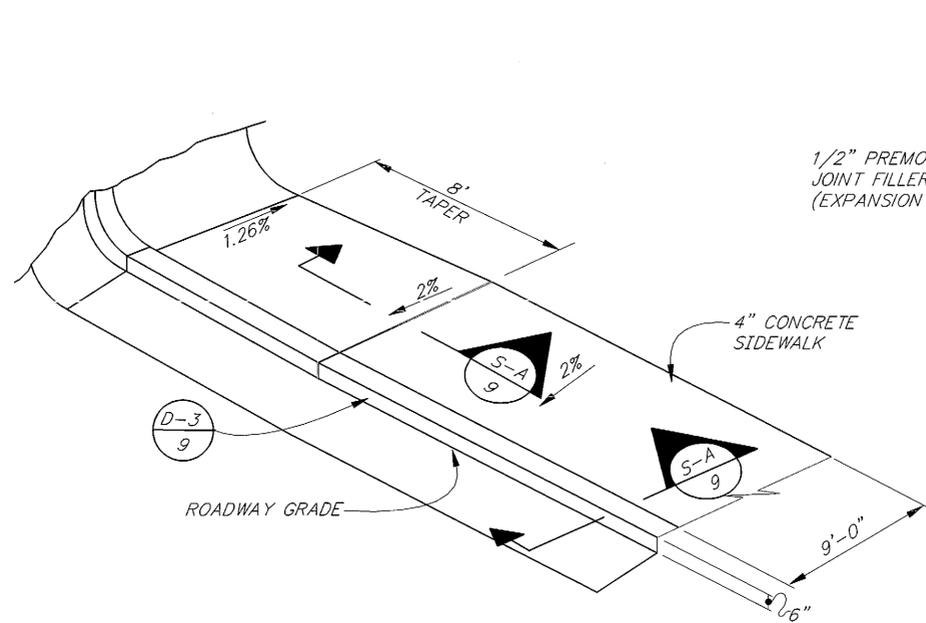
KETCHIKAN AIRPORT  
 SEAPLANE FACILITY RECONSTRUCTION  
 PROJECT NO. 71952  
**RAILING LAYOUT**

ALASKA

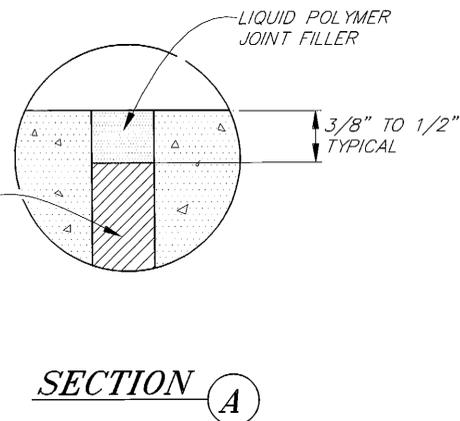
DESIGNED BY:  
D. SALDIVAR  
 DRAWN BY:  
K. KLEMMETSON  
 CHECKED BY:  
JAL

PROJECT NO.  
71952  
 DATE:  
JUNE, 1996  
 SHEET 8 OF 44

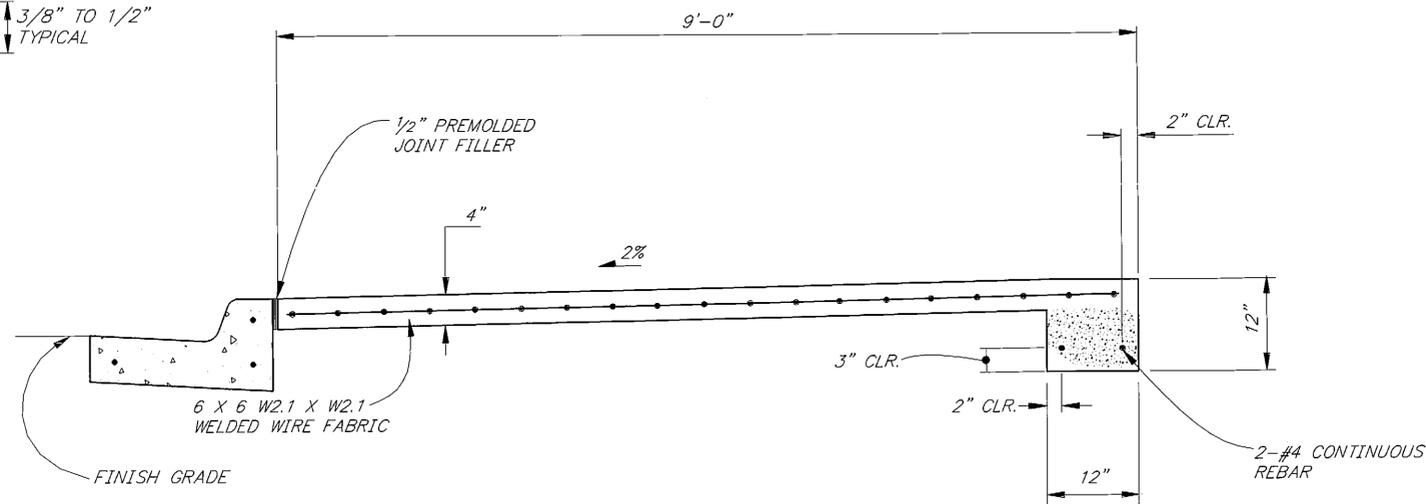




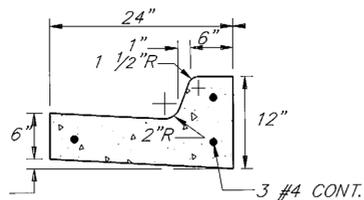
**WHEELCHAIR RAMP DETAIL 2**



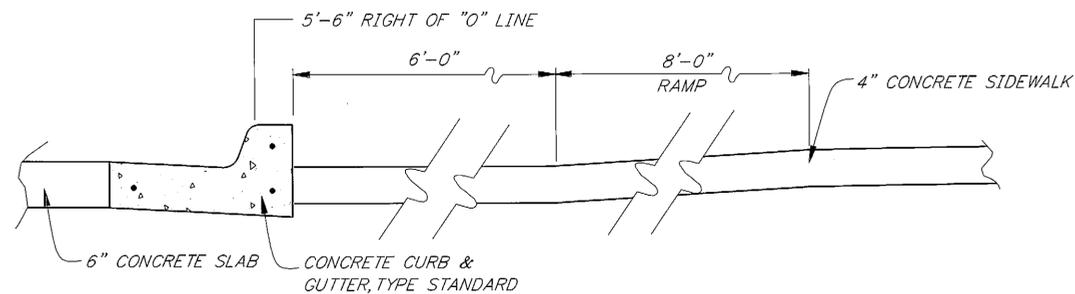
**SECTION A**



**SIDEWALK DETAIL 1**



**CONCRETE CURB & GUTTER TYPE STANDARD 3**



**SECTION D**

**SIDEWALK, CURB AND GUTTER NOTES**

1. CONCRETE SIDEWALK, CURB AND GUTTER EXPANSION JOINTS SHALL BE AT EACH END OF CURB RETURNS AND IMMEDIATELY PRECEDING AND FOLLOWING ALL CURB CUTS. THEREAFTER, THEY SHALL BE PLACED AT 30'-0" MAXIMUM.
2. CONCRETE SIDEWALK DUMMY JOINTS SHALL EXTEND INTO CONCRETE 1/3 THE DEPTH AND 1/8" WIDE AT 5' MAXIMUM INTERVALS BETWEEN EXPANSION JOINTS.
3. ALL CURB AND GUTTER AND CONCRETE SIDEWALK SHALL BE CLASS "A" CONCRETE.

NOTE: DO NOT SCALE FROM THESE PLANS—USE DIMENSIONS

|   |       |                        |
|---|-------|------------------------|
| PATH: P:\KTN\71952\DR\WCRAMP                    |       |                        |
| PLOT: P:\-LIB\-PLOT\PLTF.PCP(1) OR PLOTH.PCP(2) |       |                        |
| BY:   | DATE: | DESCRIPTION OF CHANGE: |
| RECORD OF REVISIONS                             |       |                        |

STATE OF ALASKA  
DEPARTMENT OF TRANSPORTATION  
AND PUBLIC FACILITIES  
SOUTHEAST REGION DESIGN & CONSTRUCTION

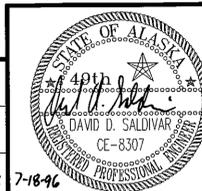
KETCHIKAN

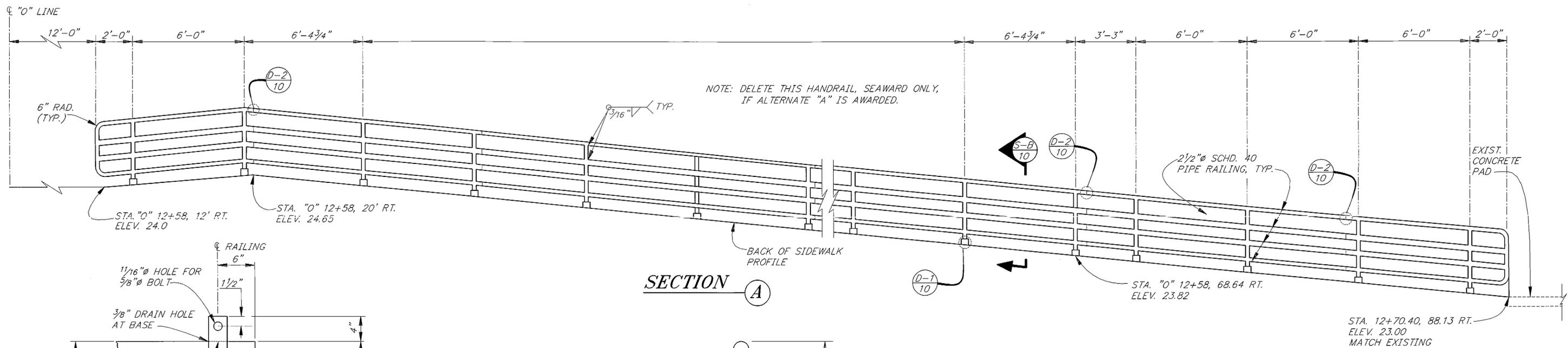
KETCHIKAN AIRPORT  
SEAPLANE FACILITY RECONSTRUCTION  
PROJECT NO. 71952  
**SIDEWALK DETAIL**

ALASKA

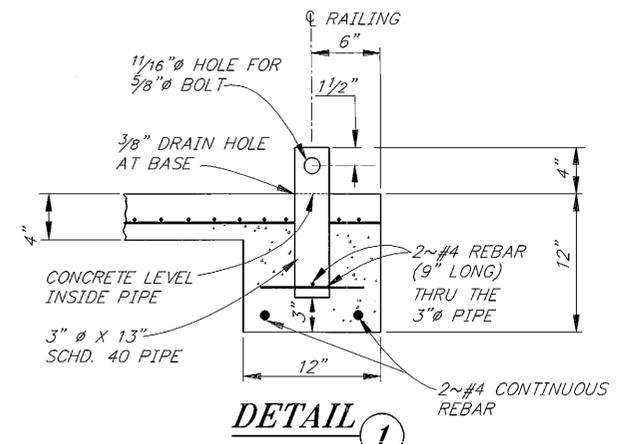
DESIGNED BY:  
D. SALDIVAR  
DRAWN BY:  
C. ANDERSON  
CHECKED BY:  
JAL

PROJECT NO.  
71952  
DATE:  
JUNE, 1996  
SHEET 9 OF 44

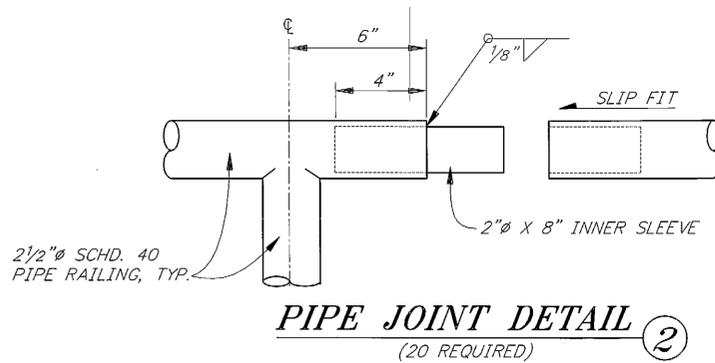




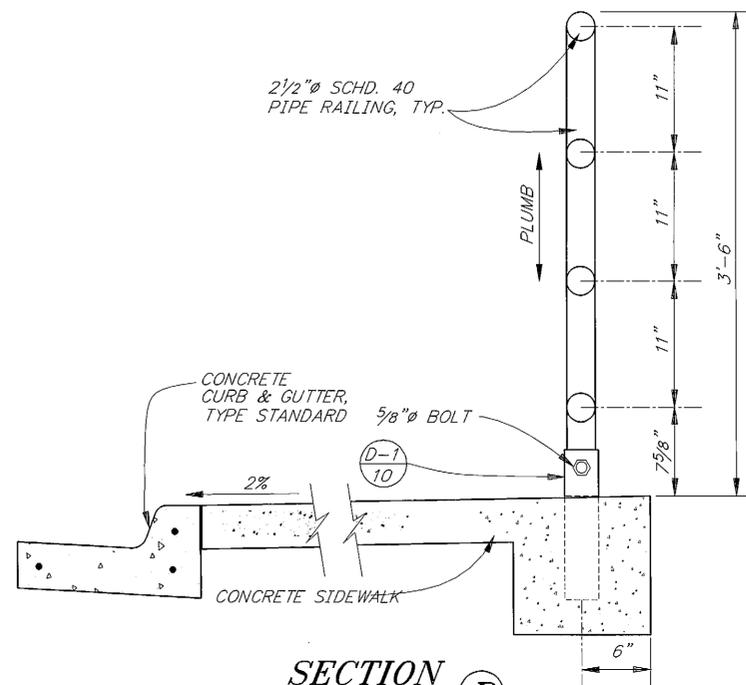
**SECTION A**



**DETAIL 1**

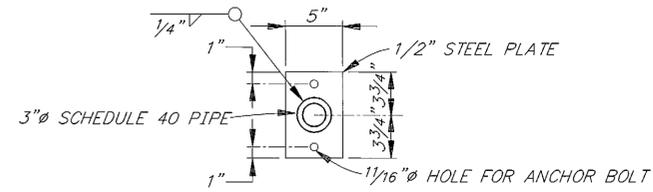


**PIPE JOINT DETAIL 2**  
(20 REQUIRED)

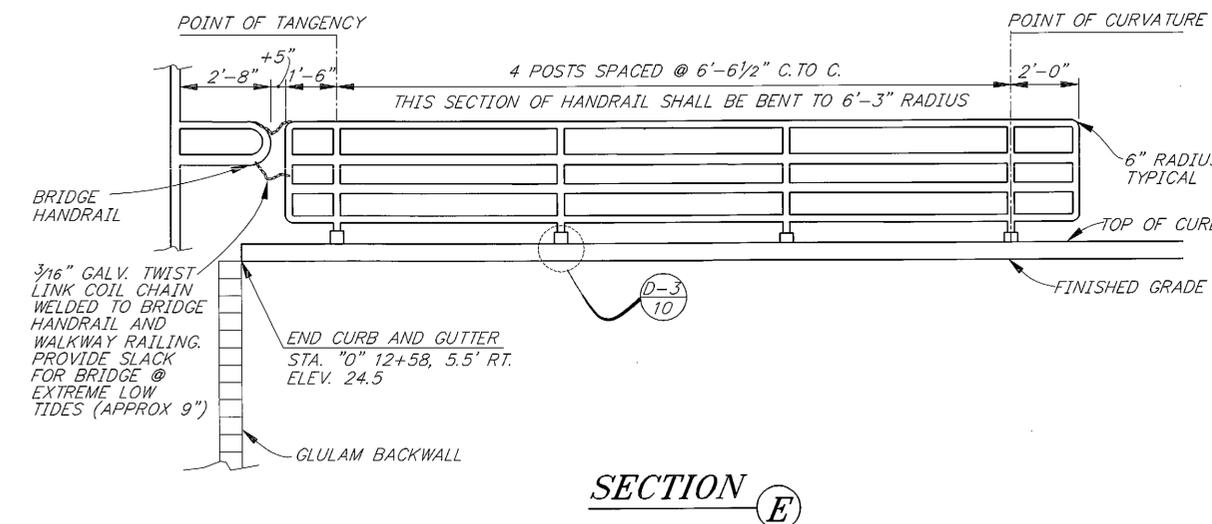


**SECTION B**

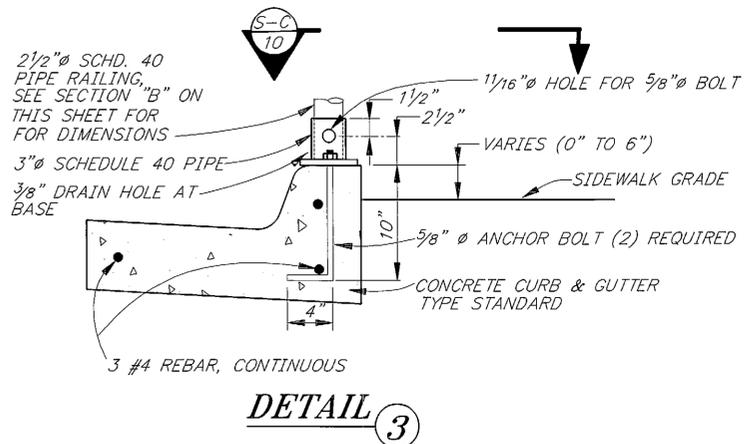
NOTE: IF ALT A IS AWARDED, PIPE RAIL WILL BE DELETED



**SECTION C**



**SECTION E**



**DETAIL 3**

NOTE: DO NOT SCALE FROM THESE PLANS—USE DIMENSIONS

|                            |   |
|----------------------------|---|
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| BY:                        | DATE: DESCRIPTION OF CHANGE:                  |
| <b>RECORD OF REVISIONS</b> |   |

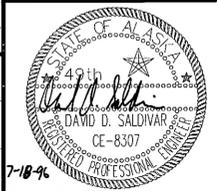
STATE OF ALASKA  
DEPARTMENT OF TRANSPORTATION  
AND PUBLIC FACILITIES  
SOUTHEAST REGION DESIGN & CONSTRUCTION

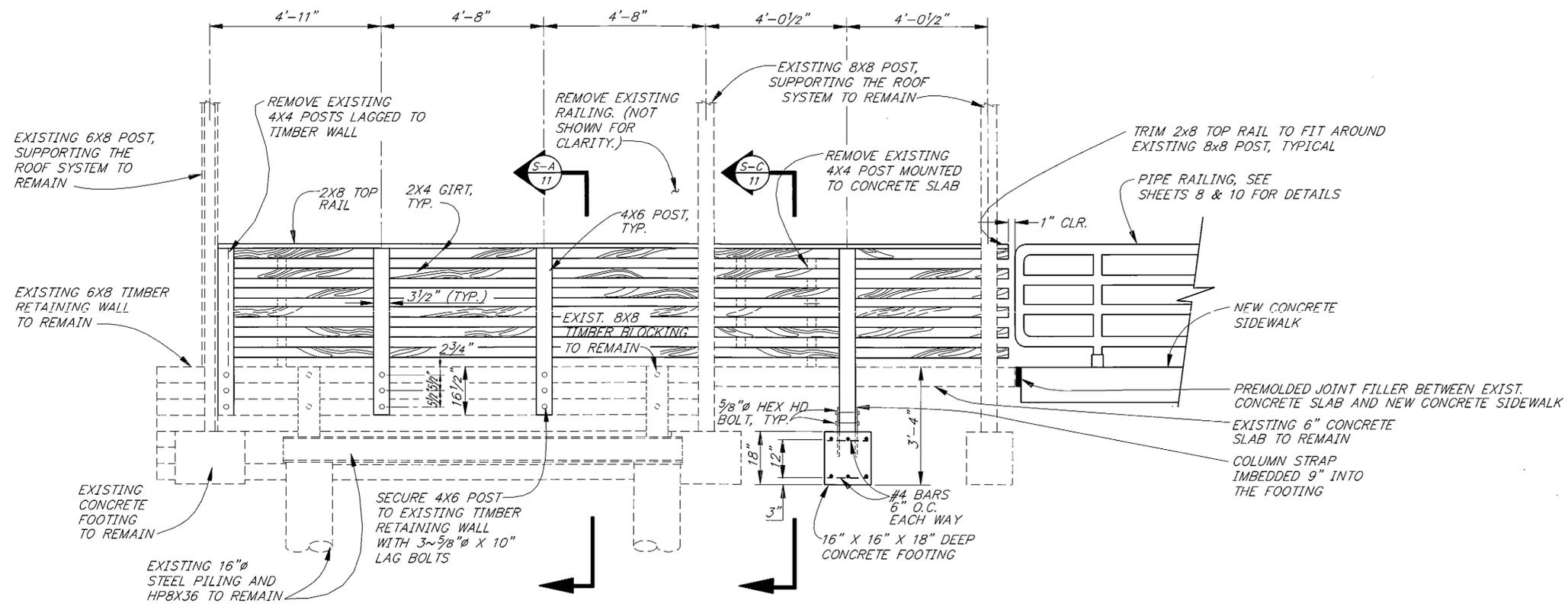
KETCHIKAN  
KETCHIKAN AIRPORT  
SEAPLANE FACILITY RECONSTRUCTION  
PROJECT NO. 71952  
**PIPE RAILING DETAILS**

ALASKA

DESIGNED BY:  
D. SALDIVAR  
DRAWN BY:  
C. ANDERSON  
CHECKED BY:  
JAL

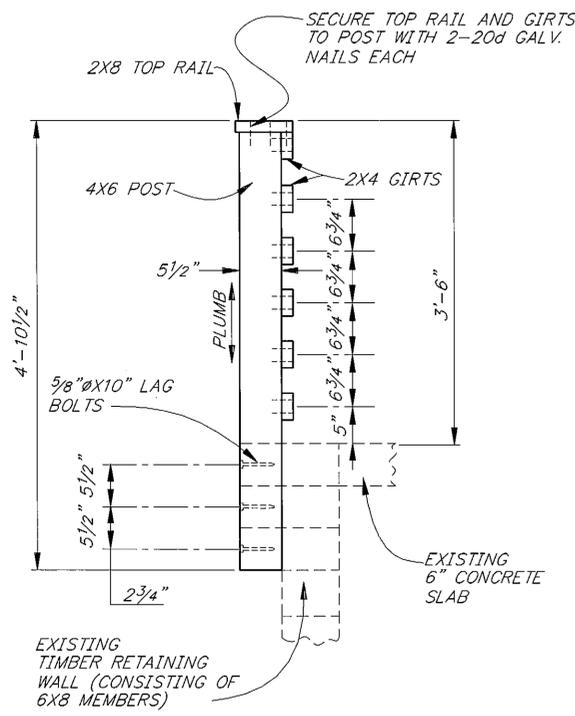
PROJECT NO.  
71952  
DATE:  
JUNE, 1996  
SHEET 10 OF 44



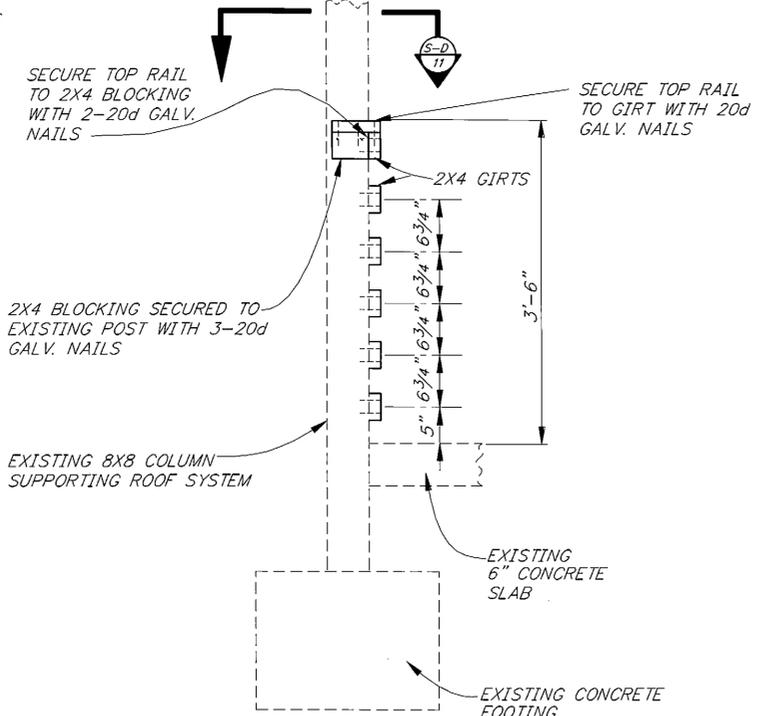


**NOTE:**  
 1. TIMBER RAILING COMPONENTS SHALL BE TREATED WITH ACZA TO 0.6 PCF RETENTION BY ASSAY PER AWWA C18-LATEST EDITION.

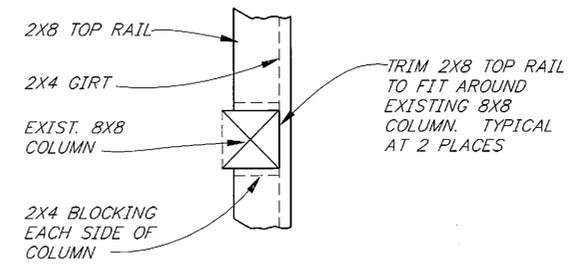
**TIMBER RAILING RECONSTRUCTION DETAIL (B)**



**SECTION A**



**SECTION C**



**SECTION D**

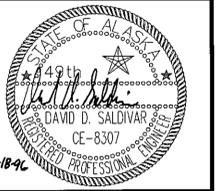
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| BY:  | DATE: | DESCRIPTION OF CHANGE: |
|  |       |                        |
| <b>RECORD OF REVISIONS</b>                           |       |                        |

STATE OF ALASKA  
 DEPARTMENT OF TRANSPORTATION  
 AND PUBLIC FACILITIES  
 SOUTHEAST REGION DESIGN & CONSTRUCTION

KETCHIKAN  
 KETCHIKAN AIRPORT  
 SEAPLANE FACILITY RECONSTRUCTION  
 PROJECT NO. 71952  
**TIMBER RAILING RECONSTRUCTION DETAIL**

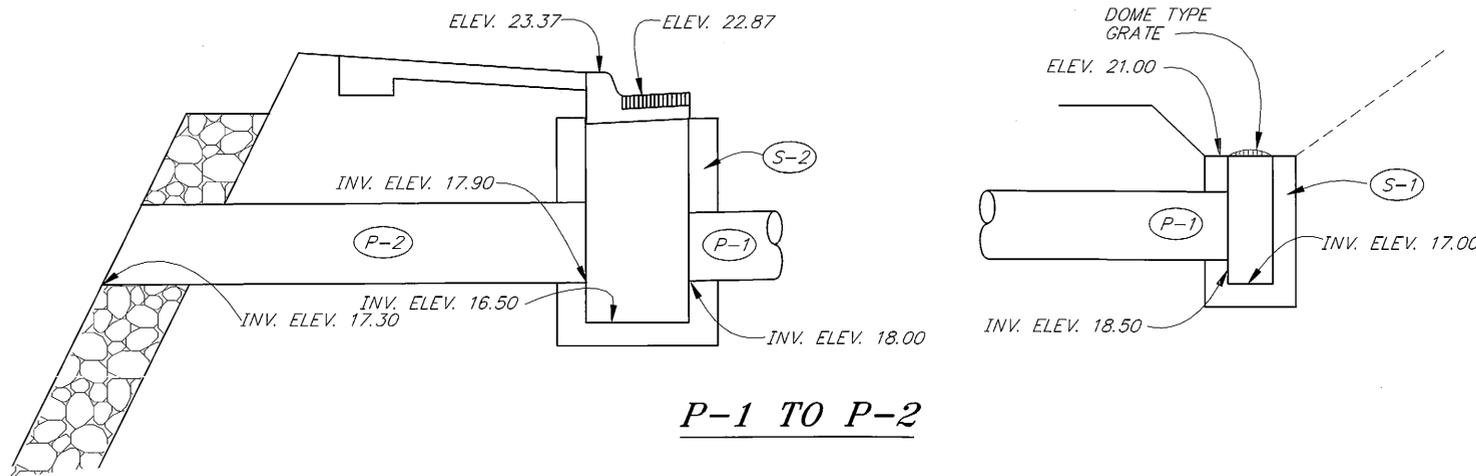
NOTE: DO NOT SCALE FROM THESE PLANS-USE DIMENSIONS

|                             |                      |
|-----------------------------|----------------------|
| DESIGNED BY:<br>D. SALDIVAR | PROJECT NO.<br>71952 |
| DRAWN BY:<br>C. ANDERSON    | DATE:<br>JUNE, 1996  |
| CHECKED BY:<br>JAL          | SHEET 11 OF 44       |



### DRAINAGE NOTES

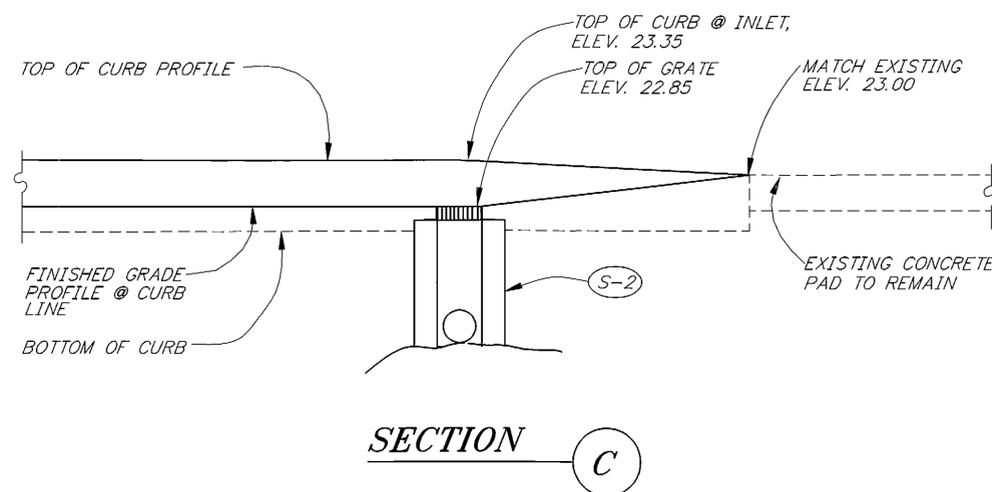
1. LOCATION OF DRAINAGE STRUCTURES AND PIPE INVERTS MAY BE ADJUSTED, AS DETERMINED BY THE ENGINEER, TO AVOID CONFLICTS AND TO BETTER FIT FIELD CONDITIONS.
2. DOME TYPE GRATE SHALL BE AS MANUFACTURED BY NEENAH FOUNDRY COMPANY (MODEL NO. R-2560-D3) OR APPROVED EQUAL.



P-1 TO P-2

| DRAINAGE STRUCTURE SUMMARY |              |            |                  |                  |   |
|----------------------------|--------------|------------|------------------|------------------|---|
| STRUCTURE NO.              | STATION      | OFFSET     | TOP OF GRATE/LID | INVERT ELEVATION | REMARKS                                   |
| (S-1)                      | "0" 12+31.93 | 94.39' RT. | 21.00            | 17.00            | FIELD INLET TYPE "A" WITH DOME TYPE GRATE |
| (S-2)                      | "0" 12+53.83 | 80.45' RT. | 22.87            | 16.50            | INLET TYPE "A" WITH CURB GRATE            |

| CULVERT PIPE SUMMARY |      |        |       |              |                         |              |         |
|----------------------|------|--------|-------|--------------|-------------------------|--------------|---------|
| PIPE NO.             | DIA. | LENGTH | FROM  | INVERT ELEV. | TO                      | INVERT ELEV. | REMARKS |
| (P-1)                | 18"  | 26.0'  | (S-1) | 18.50        | (S-2)                   | 18.00        |         |
| (P-2)                | 18"  | 20.0'  | (S-2) | 17.90        | "0" 12+75.60, 82.6' RT. | 17.30        |         |



SECTION C

NOTE: DO NOT SCALE FROM THESE PLANS--USE DIMENSIONS

| RECORD OF REVISIONS |       |                        |
|---------------------|-------|------------------------|
| BY:                 | DATE: | DESCRIPTION OF CHANGE: |
|                     |       |                        |
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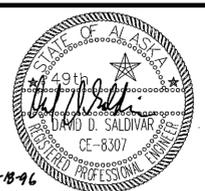
STATE OF ALASKA  
 DEPARTMENT OF TRANSPORTATION  
 AND PUBLIC FACILITIES  
 SOUTHEAST REGION DESIGN & CONSTRUCTION

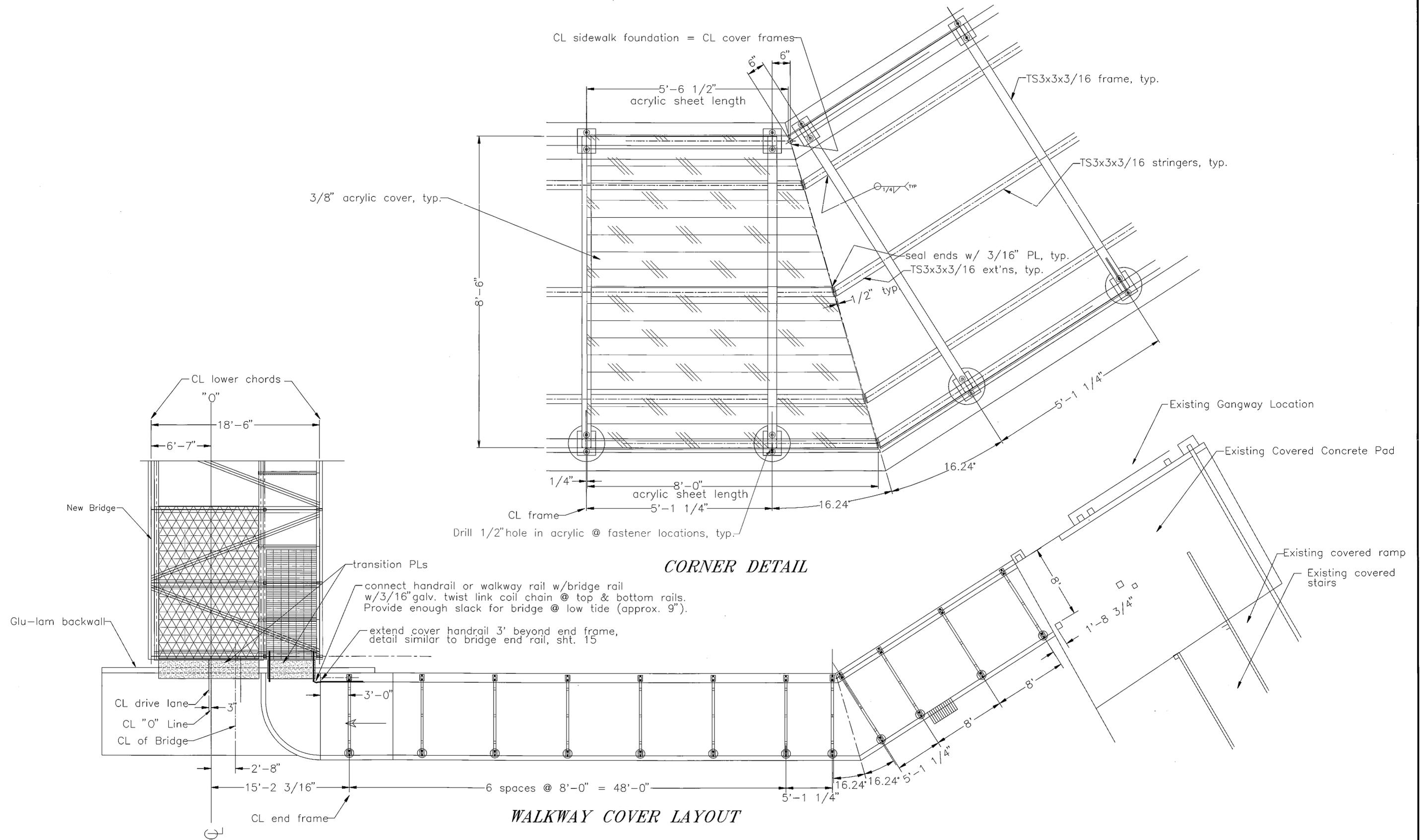
KETCHIKAN

KETCHIKAN AIRPORT  
 SEAPLANE FACILITY RECONSTRUCTION  
 PROJECT NO. 71952  
**DRAINAGE DETAILS**

ALASKA

|                             |                      |
|-----------------------------|----------------------|
| DESIGNED BY:<br>D. SALDIVAR | PROJECT NO.<br>71952 |
| DRAWN BY:<br>C. ANDERSON    | DATE:<br>JUNE, 1996  |
| CHECKED BY:<br>D. SALDIVAR  | SHEET 12 OF 44       |





**CORNER DETAIL**

**WALKWAY COVER LAYOUT**

NOTE: DO NOT SCALE FROM THESE PLANS—USE DIMENSIONS

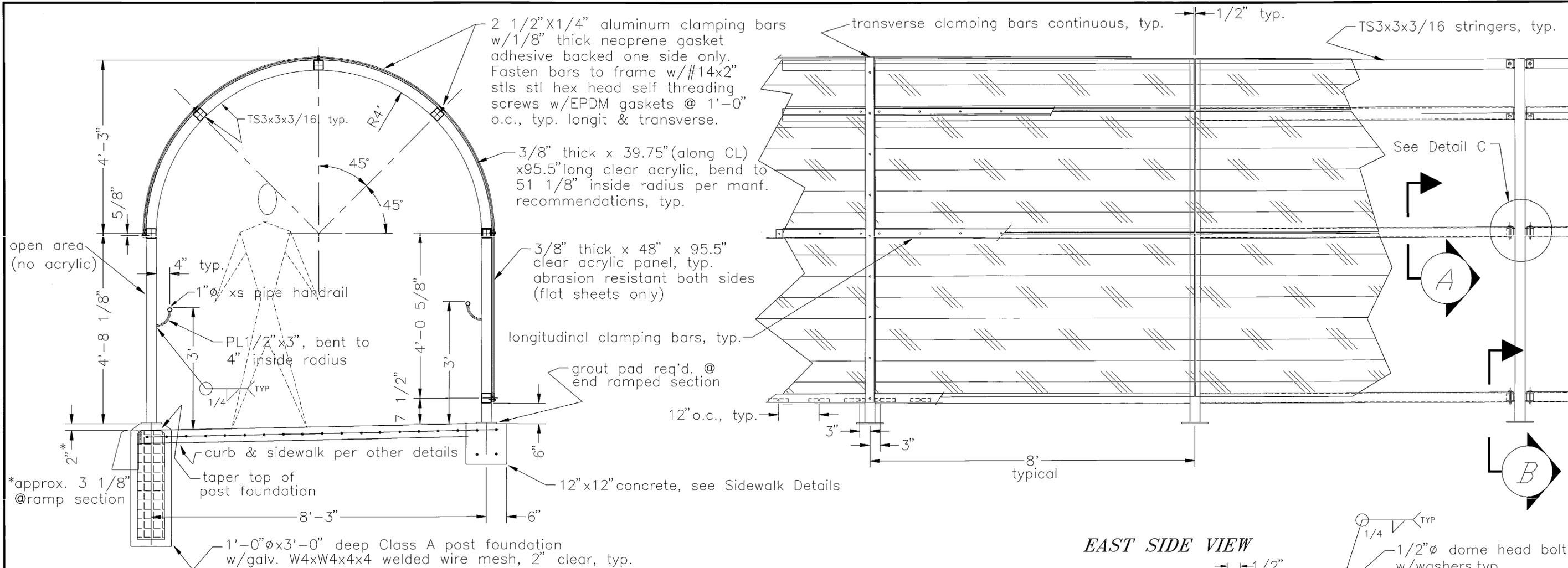
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| BY:                               | DATE: | DESCRIPTION OF CHANGE: |
|                                   |       |                        |
| <b>RECORD OF REVISIONS</b>        |       |                        |

STATE OF ALASKA  
 DEPARTMENT OF TRANSPORTATION  
 AND PUBLIC FACILITIES  
 SOUTHEAST REGION DESIGN & CONSTRUCTION

KETCHIKAN  
 KETCHIKAN AIRPORT  
 SEAPLANE FACILITY RECONSTRUCTION  
 PROJECT NO. A.I.P. 3-02-0144-0996/71952  
**WALKWAY COVER LAYOUT (ALT. A)**

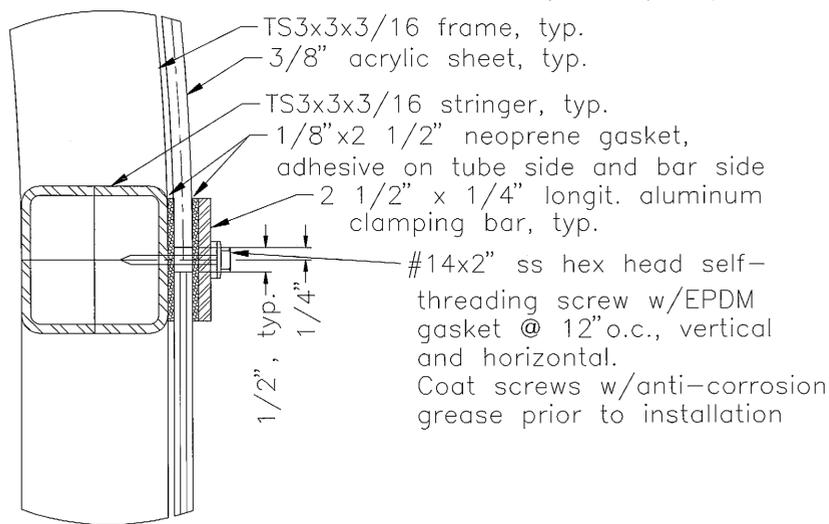
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| DRAWN BY:    | BAS | DATE:          | MAY, 1996 |
| CHECKED BY:  | JAL | SHEET 13 OF 44 | 7-19-96   |



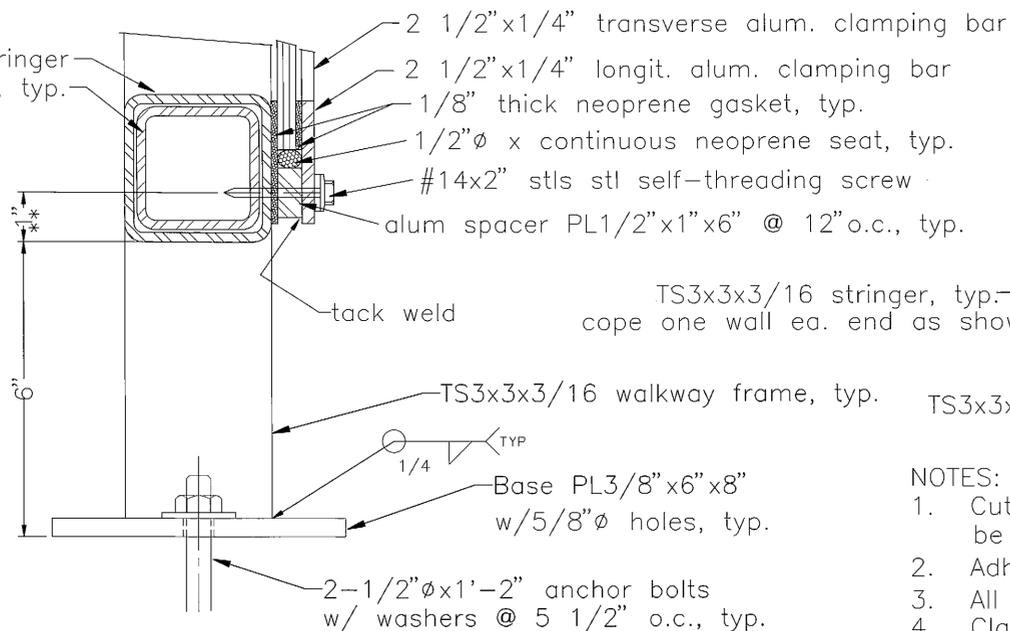


**TYPICAL SECTION**

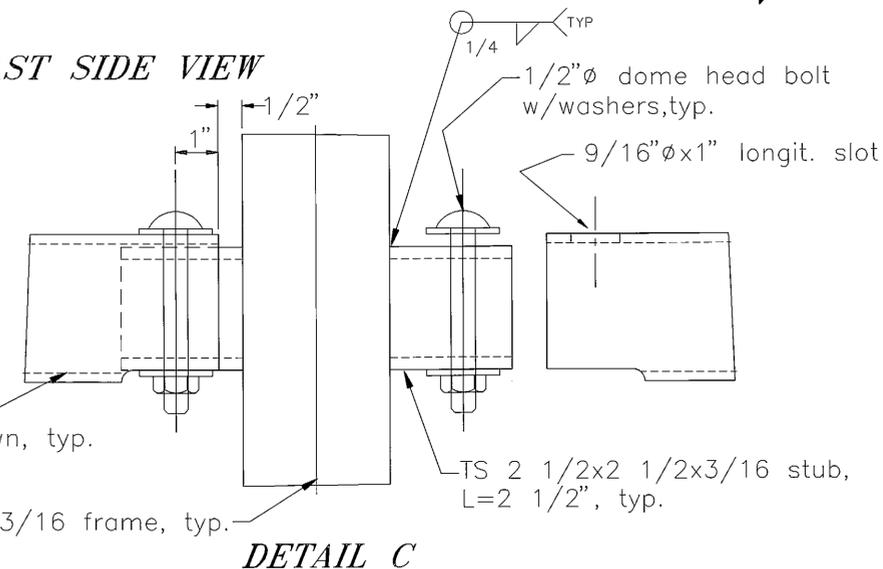
**EAST SIDE VIEW**



**SECTION A**



**SECTION B**



**DETAIL C**

**NOTES:**

1. Cutting, drilling, bending and installation of acrylic sheets shall be per manufacturer's recommendations.
2. Adhesives, seals, and gaskets shall be compatible w/acrylic sheets.
3. All aluminum mounting bars, plates, and spacers shall be 6061-T6.
4. Clamping bar mounting screws shall be coated w/anti-corrosion grease prior to installation.
5. All steel shall be galvanized after fabrication.

(Detail opposite hand for west side connection, \*\* = 7/8").  
 (Similar detail for transverse bars @ cover ends, except spacer bars are continuous)

**NOTE: DO NOT SCALE FROM THESE PLANS-USE DIMENSIONS**

| RECORD OF REVISIONS |      |                       |
|---------------------|------|-----------------------|
| NO.                 | DATE | DESCRIPTION OF CHANGE |
|                     |      |                       |
|                     |      |                       |

STATE OF ALASKA  
 DEPARTMENT OF TRANSPORTATION  
 AND PUBLIC FACILITIES  
 SOUTHEAST REGION DESIGN & CONSTRUCTION

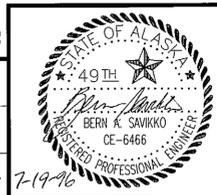
KETCHIKAN

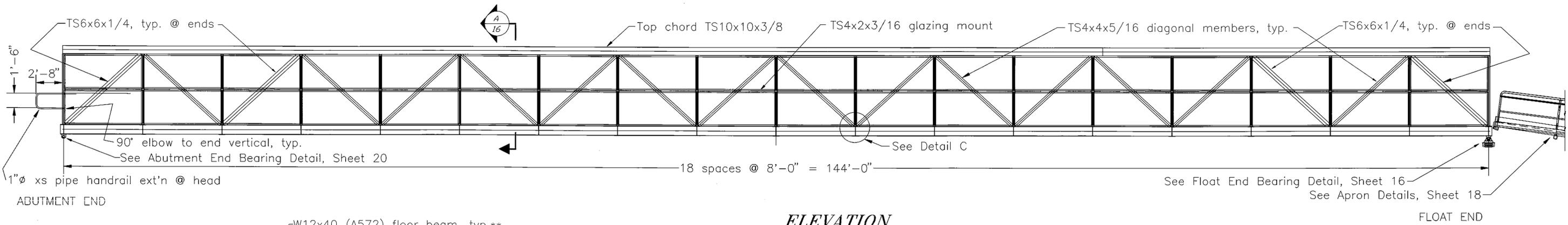
KETCHIKAN AIRPORT  
 SEAPLANE FACILITY RECONSTRUCTION  
 PROJECT NO. A.I.P. 3-02-0144-0996/71952  
**WALKWAY COVER DETAIL (ALT. A)**

ALASKA

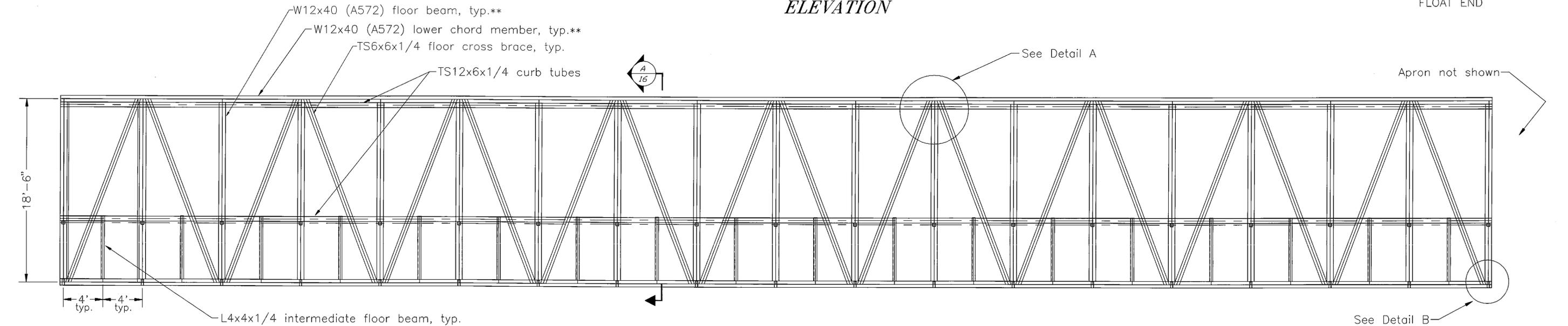
DESIGNED BY:  
 BAS  
 DRAWN BY:  
 BAS  
 CHECKED BY:  
 JAL

PROJECT NO.  
 71952  
 DATE:  
 MAY, 1996  
 SHEET 14 OF 44

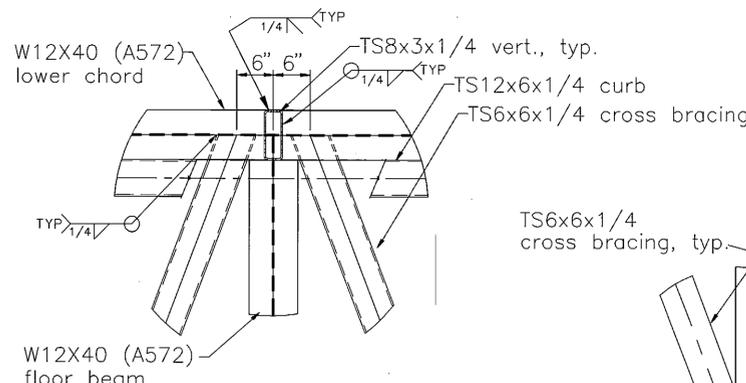




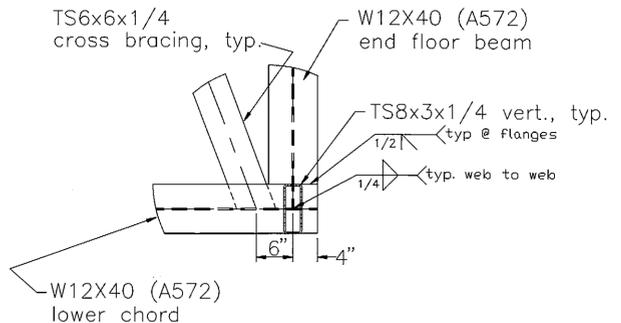
**ELEVATION**



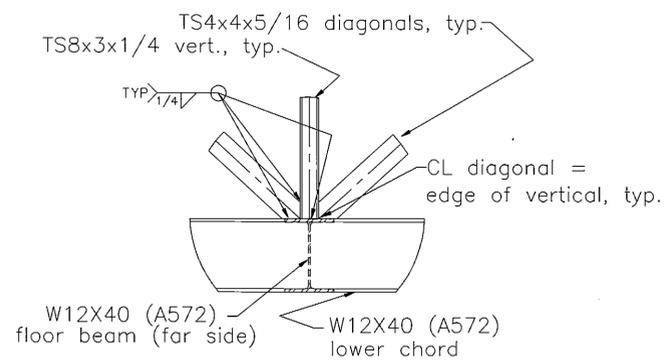
**PLAN**



**DETAIL A - PLAN**



**DETAIL B - PLAN**



**DETAIL C - ELEVATION**

- NOTES**
- Design live load = 85 psf pedestrian live load and H10 vehicle load
  - Design wind load = 40 psf transverse to the structure
  - All seamless pipe shall conform to ASTM A-53, Grade B or ASTM A-500 and shall be painted, unless specified to be galvanized
  - All shapes and plates shall conform to ASTM A36 (unless specified otherwise) and shall be galvanized.
  - Ship assembled.
  - No stringer or pipe splices may be located in middle third of gangway.
  - Camber to compensate for dead load deflection (approx. +2.25" @ midspan).
  - Approx. weight = 120,000 lbs.
  - Paint entire structure after assembly and prior to installation of glazing. Paint shall be System 5, Section 303.
  - All welds joining tubular members and cover or end plates to be seal weld.
  - \*\* 11. The following members are considered main members subject to tensile stress and require Charpy Impact Testing. See Section 302 of the specifications.
    - A. Lower chord members
    - B. Floor beams
 In addition, the lower chord members are considered fracture critical and require a fracture control plan. See Section 302 of the specifications.

PATH: D:\BAS\GANGI-1.DWG

| BY: | DATE: | DESCRIPTION OF CHANGE: |
|-----|-------|------------------------|
|     |       |                        |
|     |       |                        |

**RECORD OF REVISIONS**

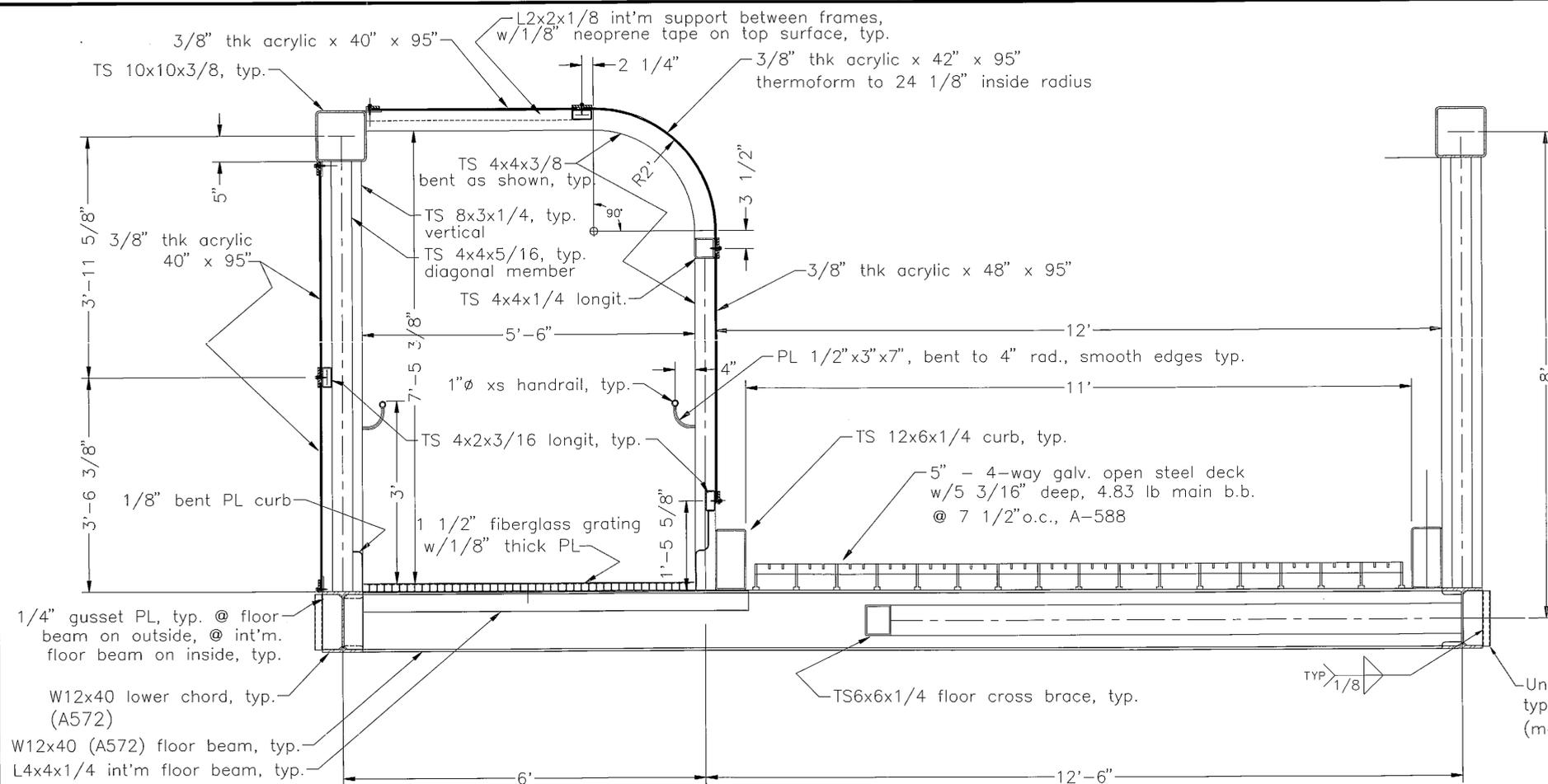
STATE OF ALASKA  
 DEPARTMENT OF TRANSPORTATION  
 AND PUBLIC FACILITIES  
 SOUTHEAST REGION DESIGN & CONSTRUCTION

KETCHIKAN  
 KETCHIKAN AIRPORT  
 SEAPLANE FACILITY RECONSTRUCTION  
 PROJECT NO. A.I.P. 3-02-0144-0996/71952  
**PEDESTRIAN AND VEHICLE ACCESS BRIDGE**

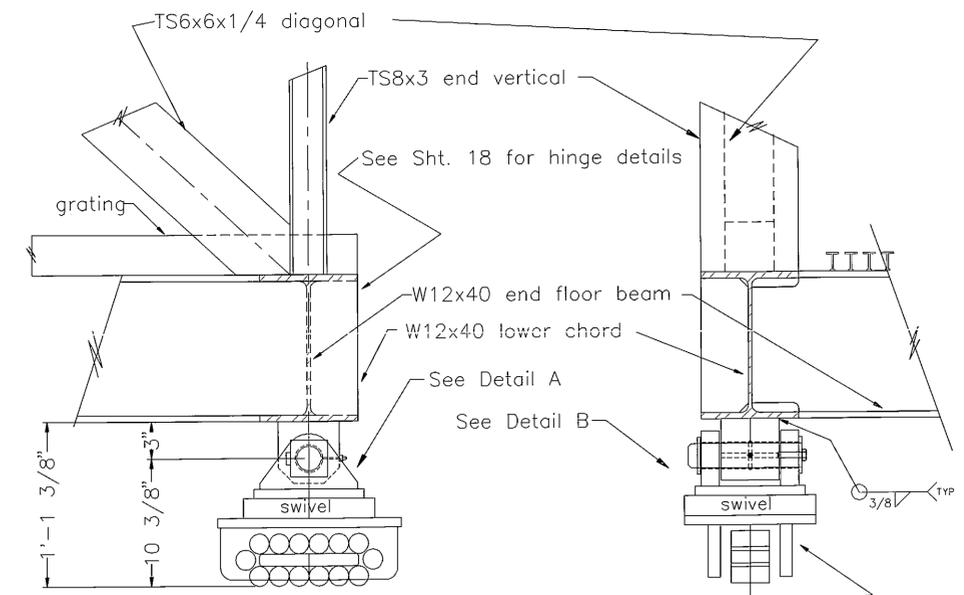
NOTE: DO NOT SCALE FROM THESE PLANS-USE DIMENSIONS

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| DESIGNED BY:<br>BAS | PROJECT NO.<br>71952 |
| DRAWN BY:<br>BAS    | DATE:<br>MARCH, 1996 |
| CHECKED BY:<br>JAL  | SHEET 15 OF 44       |

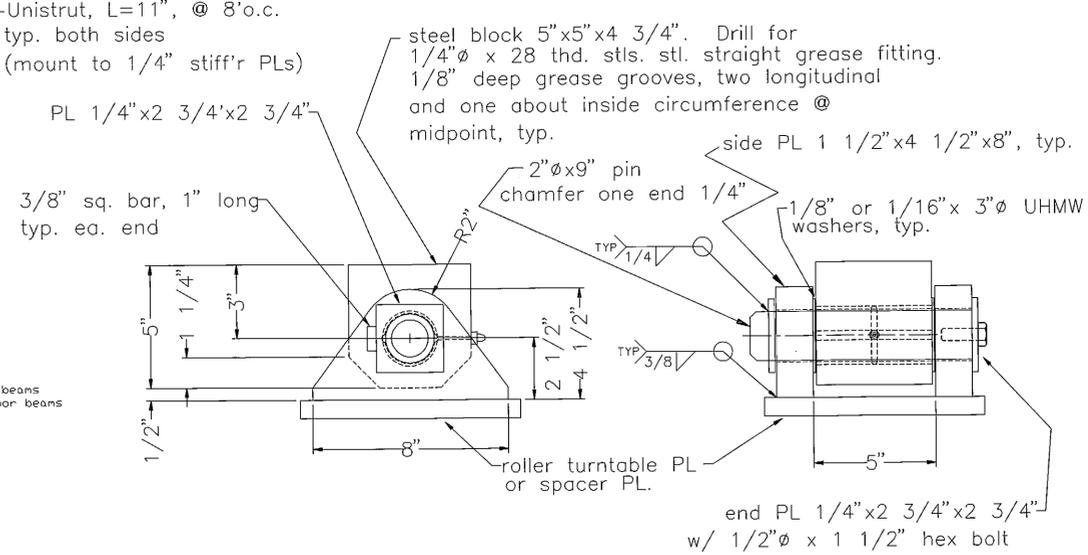




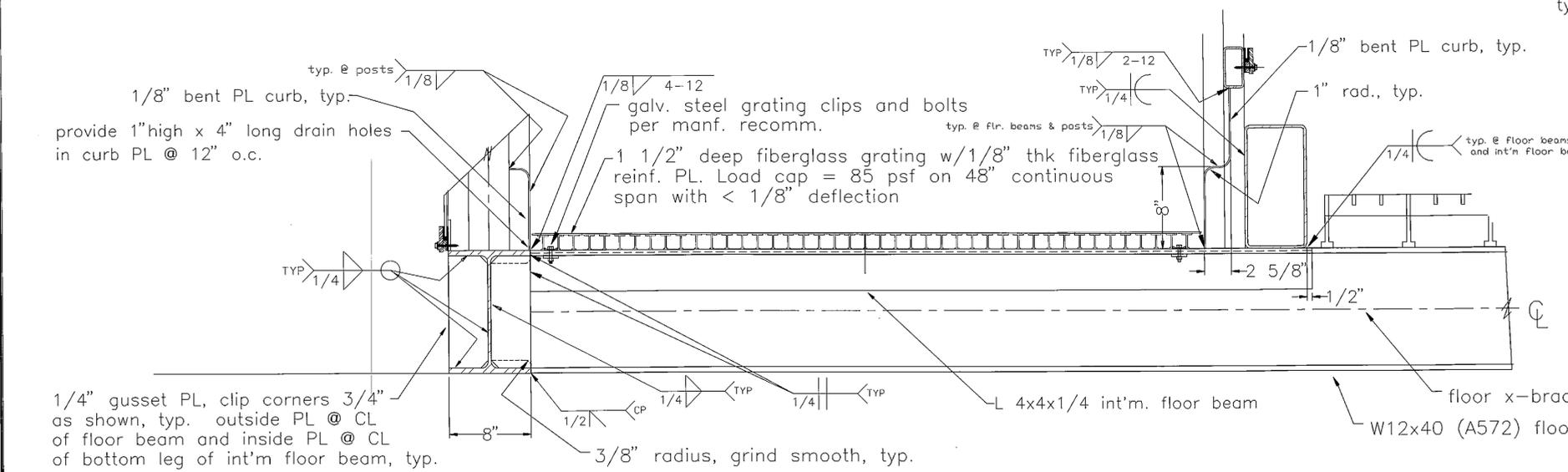
**TYPICAL SECTION A**



**SIDE VIEW FRONT END VIEW**



**DETAIL A DETAIL B**



**FLOOR BEAM DETAILS - ELEVATION**

**FLOAT END BEARING DETAIL**  
(one bearing w/turntable, other w/spacer)

NOTE: DO NOT SCALE FROM THESE PLANS-USE DIMENSIONS

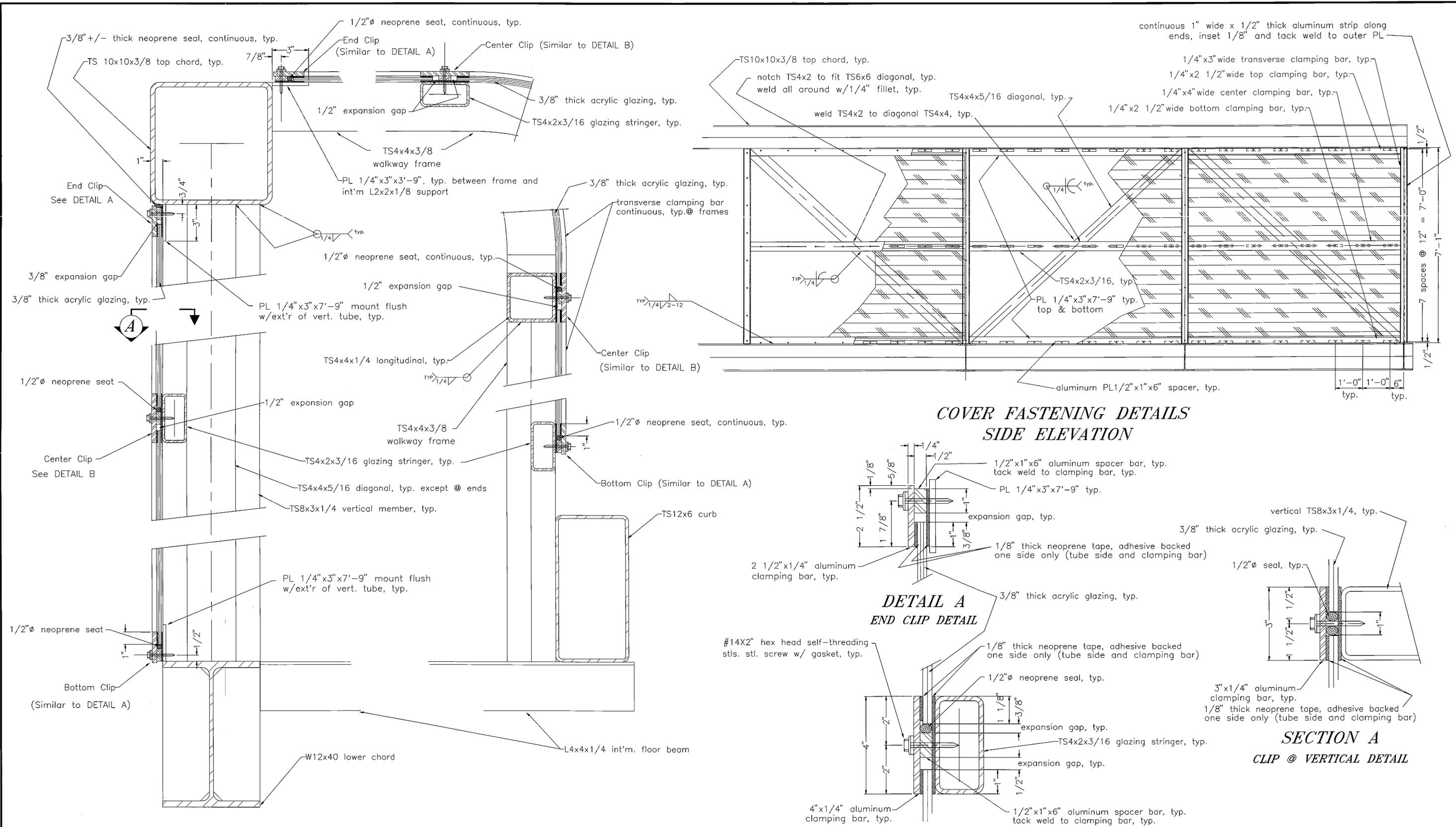
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| BY:                      | DATE: | DESCRIPTION OF CHANGE: |
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STATE OF ALASKA  
DEPARTMENT OF TRANSPORTATION  
AND PUBLIC FACILITIES  
SOUTHEAST REGION DESIGN & CONSTRUCTION

KETCHIKAN  
KETCHIKAN AIRPORT  
SEAPLANE FACILITY RECONSTRUCTION  
PROJECT NO. A.I.P. 3-02-0144-0996/71952  
**SECTION DETAILS**

|        |                     |                      |
|--------|---------------------|----------------------|
| ALASKA | DESIGNED BY:<br>BAS | PROJECT NO.<br>71952 |
|        | DRAWN BY:<br>BAS    | DATE:<br>MARCH, 1996 |
|        | CHECKED BY:<br>JAL  | SHEET 16 OF 44       |





**ACRYLIC CONNECTION DETAILS**  
(Elevation looking shoreward)

**COVER FASTENING DETAILS**  
**SIDE ELEVATION**

**DETAIL A**  
**END CLIP DETAIL**

**DETAIL B**  
**CENTER CLIP DETAIL**

**SECTION A**  
**CLIP @ VERTICAL DETAIL**

NOTE: DO NOT SCALE FROM THESE PLANS-USE DIMENSIONS

|                            |       |                        |
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| PATH: D:\BAS\SHEET17.DWG   |       |                        |
| BY:                        | DATE: | DESCRIPTION OF CHANGE: |
|                            |       |                        |
| <b>RECORD OF REVISIONS</b> |       |                        |

STATE OF ALASKA  
DEPARTMENT OF TRANSPORTATION  
AND PUBLIC FACILITIES  
SOUTHEAST REGION DESIGN & CONSTRUCTION

KETCHIKAN

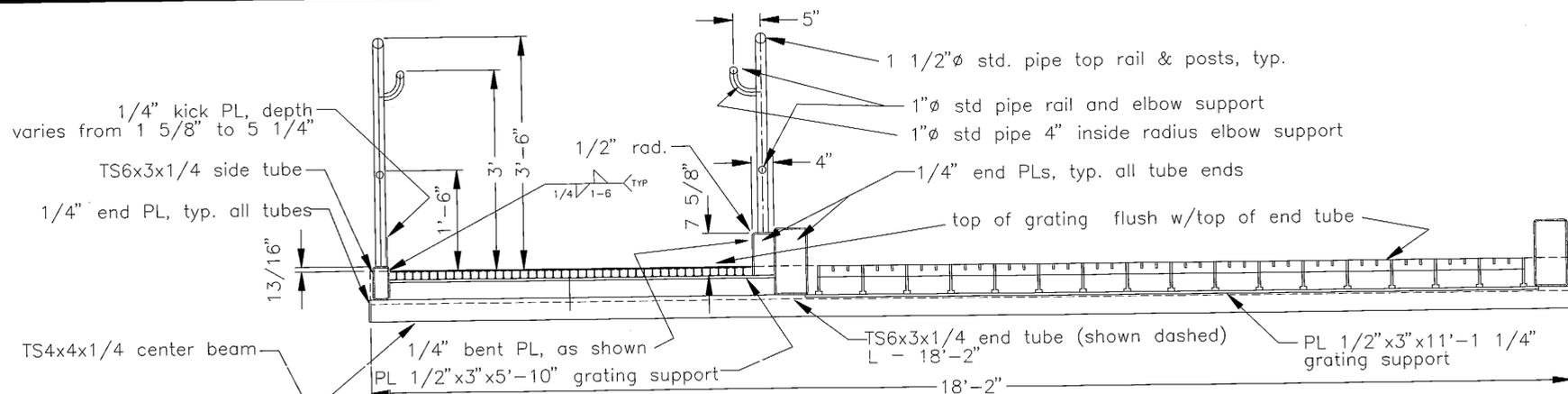
KETCHIKAN AIRPORT  
SEAPLANE FACILITY RECONSTRUCTION  
PROJECT NO. A.I.P. 3-02-0144-0996/71952  
**ACRYLIC COVER DETAILS**

ALASKA

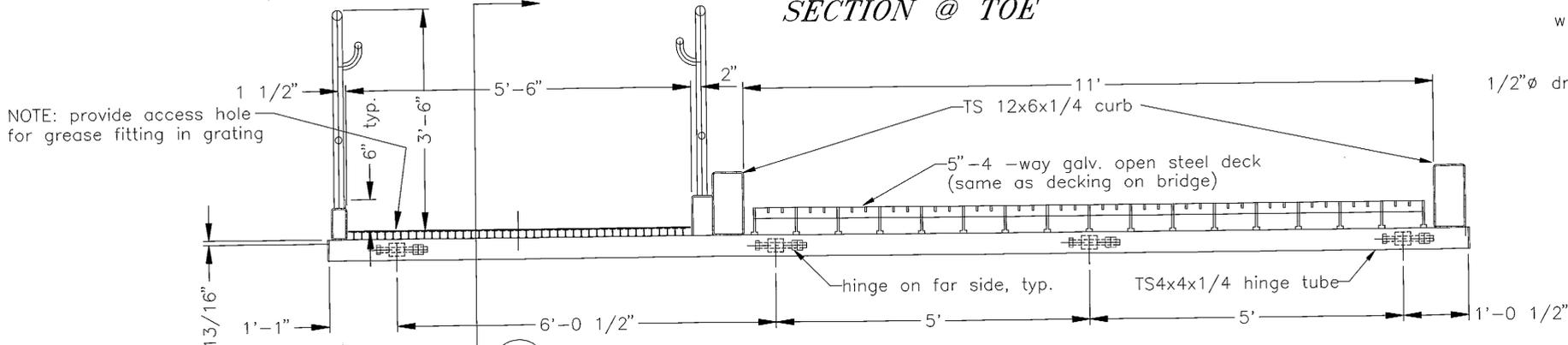
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| DESIGNED BY: | BAS |
| DRAWN BY:    | BAS |
| CHECKED BY:  | JAL |

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| PROJECT NO.    | 71952       |
| DATE:          | MARCH, 1996 |
| SHEET 17 OF 44 | 719-96      |



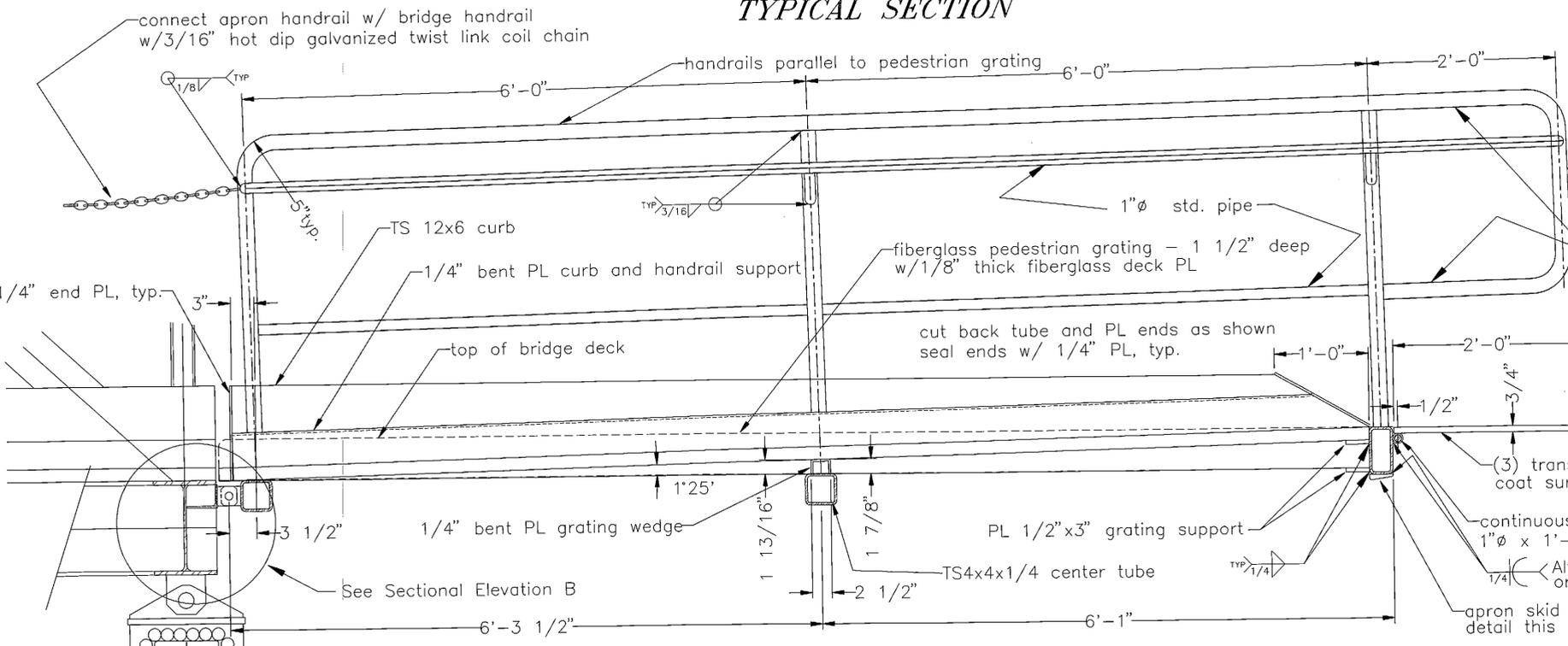


**SECTION @ TOE**

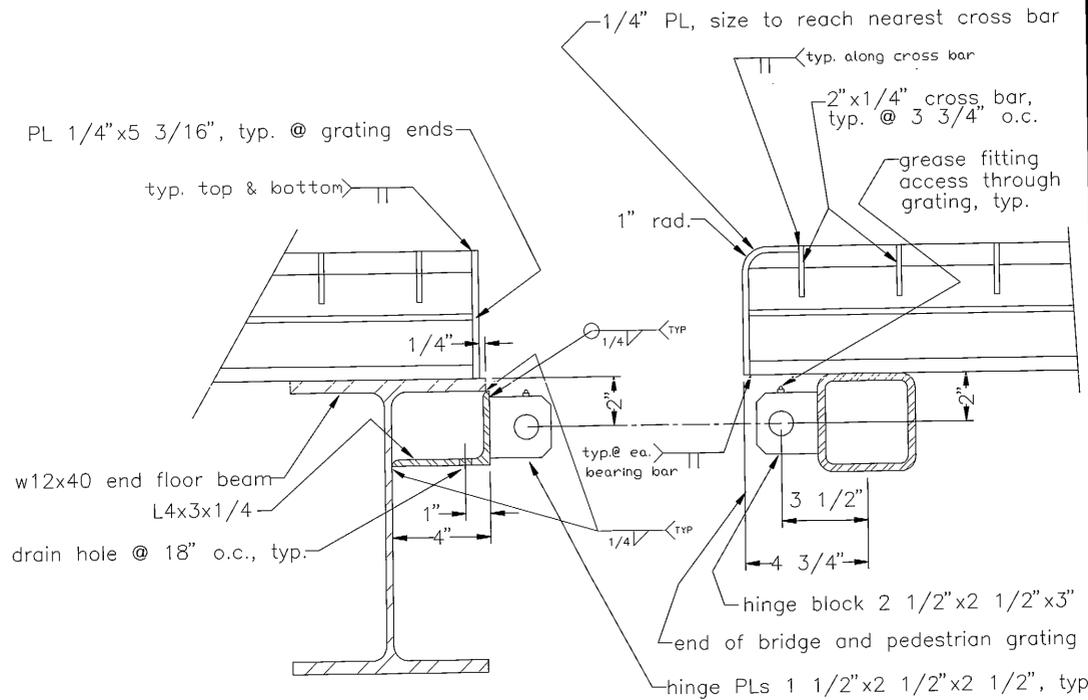


**SECTION @ HINGE END**

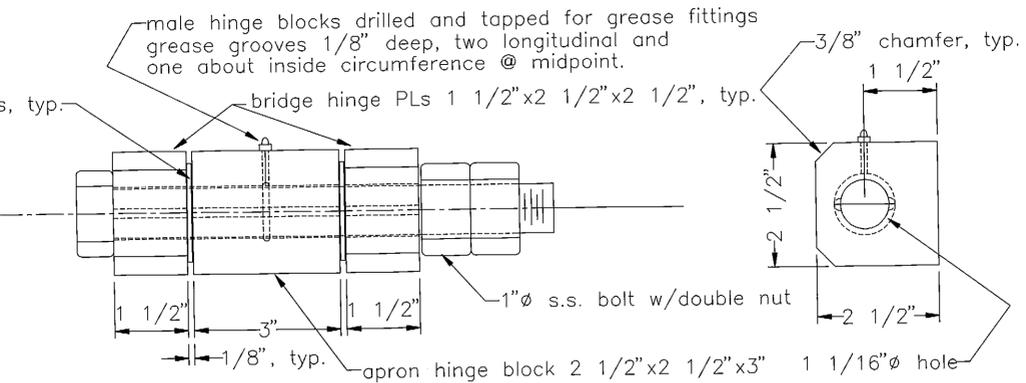
**TYPICAL SECTION**



**SECTION A**



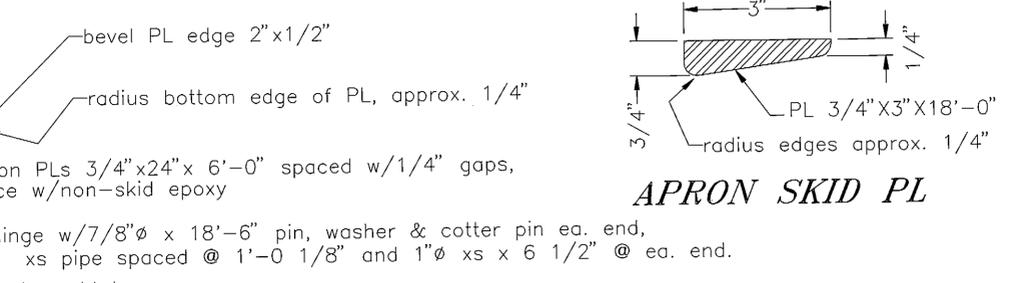
**SECTIONAL ELEVATION B**



**ELEVATION**

**HINGE DETAILS**

**SIDE VIEW**



**APRON SKID PL**

- NOTES:**
1. All pieces galvanized after fab.
  2. Approx. weight = 5800 lbs.
  3. All hardware shall be galv. or stainless steel per Section 302.
  4. Field cuts on fiberglass shall be repaired per manf. recomm.

**NOTE: DO NOT SCALE FROM THESE PLANS-USE DIMENSIONS**

| RECORD OF REVISIONS |       |                        |
|---------------------|-------|------------------------|
| BY:                 | DATE: | DESCRIPTION OF CHANGE: |
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STATE OF ALASKA  
 DEPARTMENT OF TRANSPORTATION  
 AND PUBLIC FACILITIES  
 SOUTHEAST REGION DESIGN & CONSTRUCTION

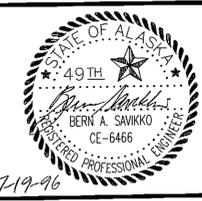
KETCHIKAN

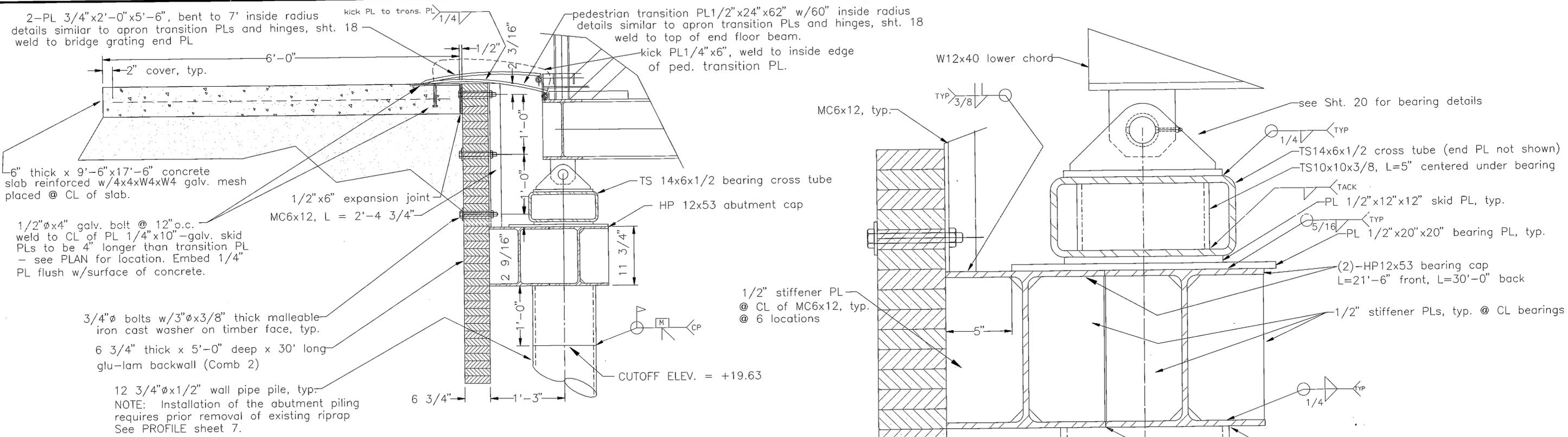
KETCHIKAN AIRPORT  
 SEAPLANE FACILITY RECONSTRUCTION  
 PROJECT NO. A.I.P. 3-02-0144-0996/71952  
**APRON DETAILS**

ALASKA

DESIGNED BY:  
 BAS  
 DRAWN BY:  
 BAS  
 CHECKED BY:  
 JAL

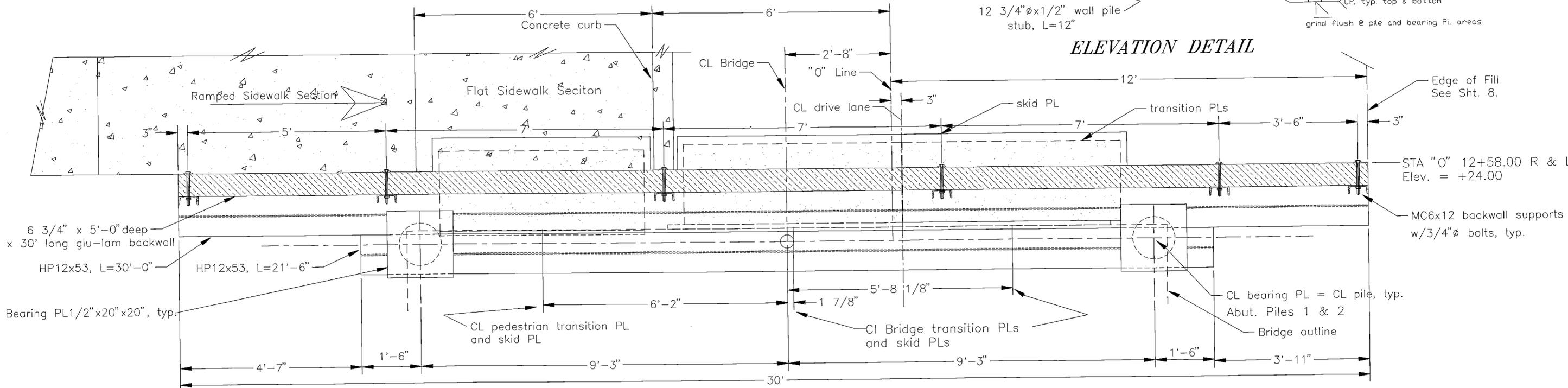
PROJECT NO.  
 71952  
 DATE:  
 MARCH, 1996  
 SHEET 18 OF 44





**SIDE ELEVATION**

**ELEVATION DETAIL**



**ABUTMENT PLAN**

(NOTE: Bridge is NOT symmetrical about backwall)

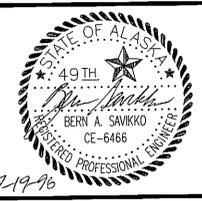
NOTE: DO NOT SCALE FROM THESE PLANS-USE DIMENSIONS

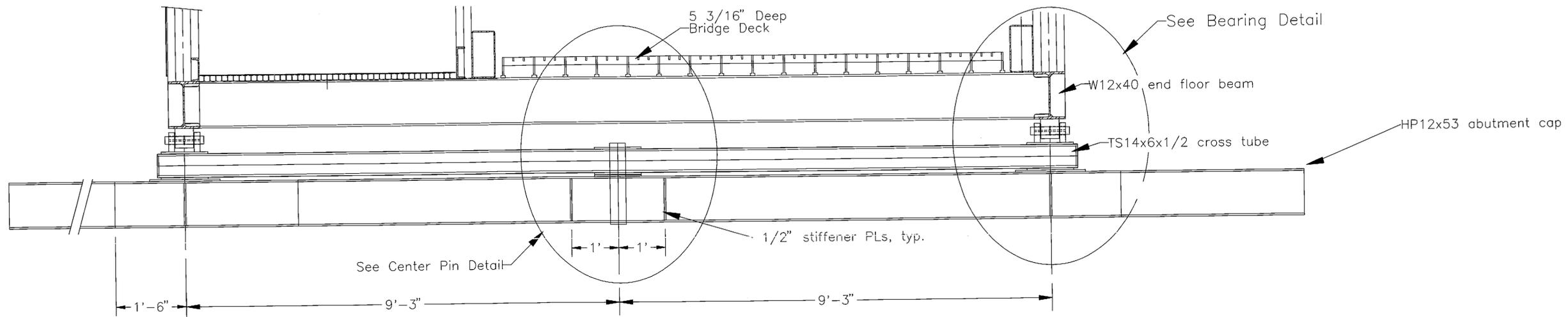
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| NO.                 | DATE | DESCRIPTION OF CHANGE |
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STATE OF ALASKA  
 DEPARTMENT OF TRANSPORTATION  
 AND PUBLIC FACILITIES  
 SOUTHEAST REGION DESIGN & CONSTRUCTION

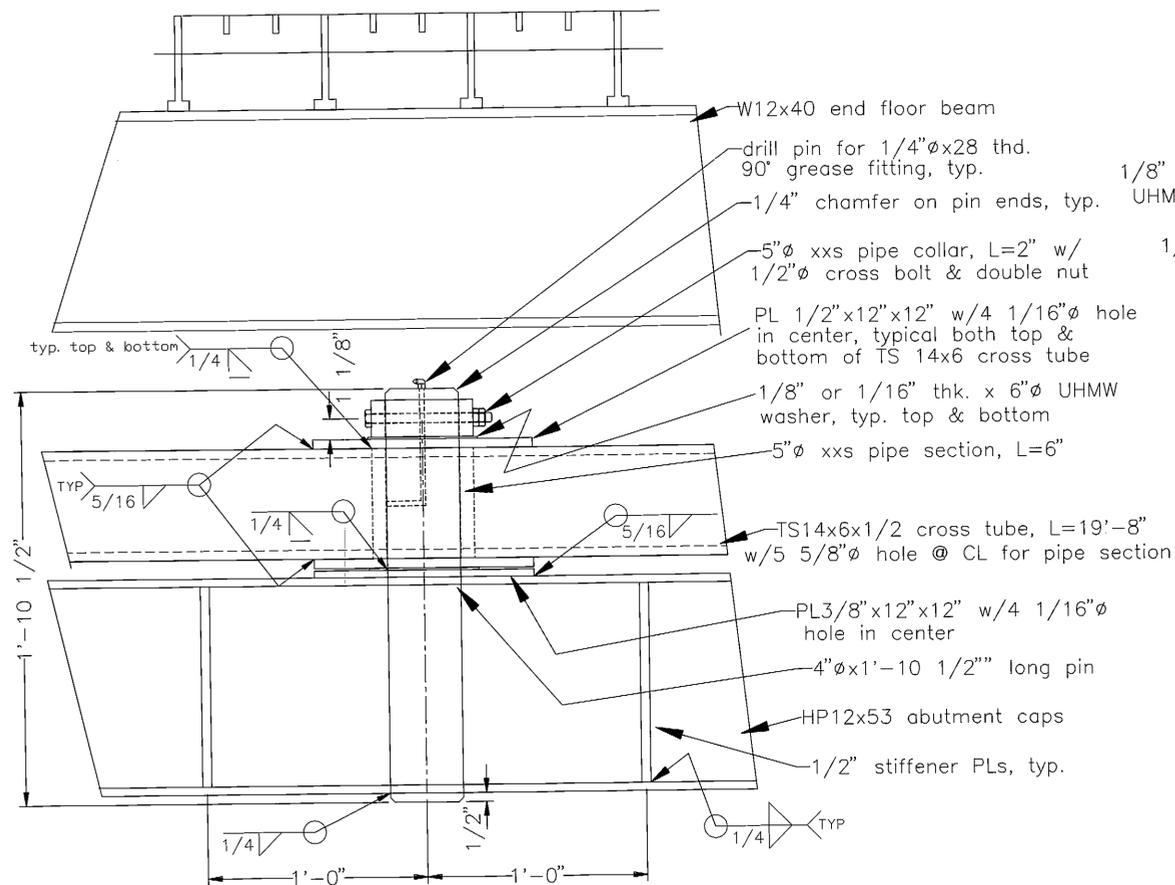
KETCHIKAN  
 KETCHIKAN AIRPORT  
 SEAPLANE FACILITY RECONSTRUCTION  
 PROJECT NO. A.I.P. 3-02-0144-0996/71952  
**ABUTMENT DETAILS**

|                     |                      |
|---------------------|----------------------|
| DESIGNED BY:<br>BAS | PROJECT NO.<br>71952 |
| DRAWN BY:<br>BAS    | DATE:<br>APRIL, 1996 |
| CHECKED BY:<br>JAL  | SHEET 19 OF 44       |

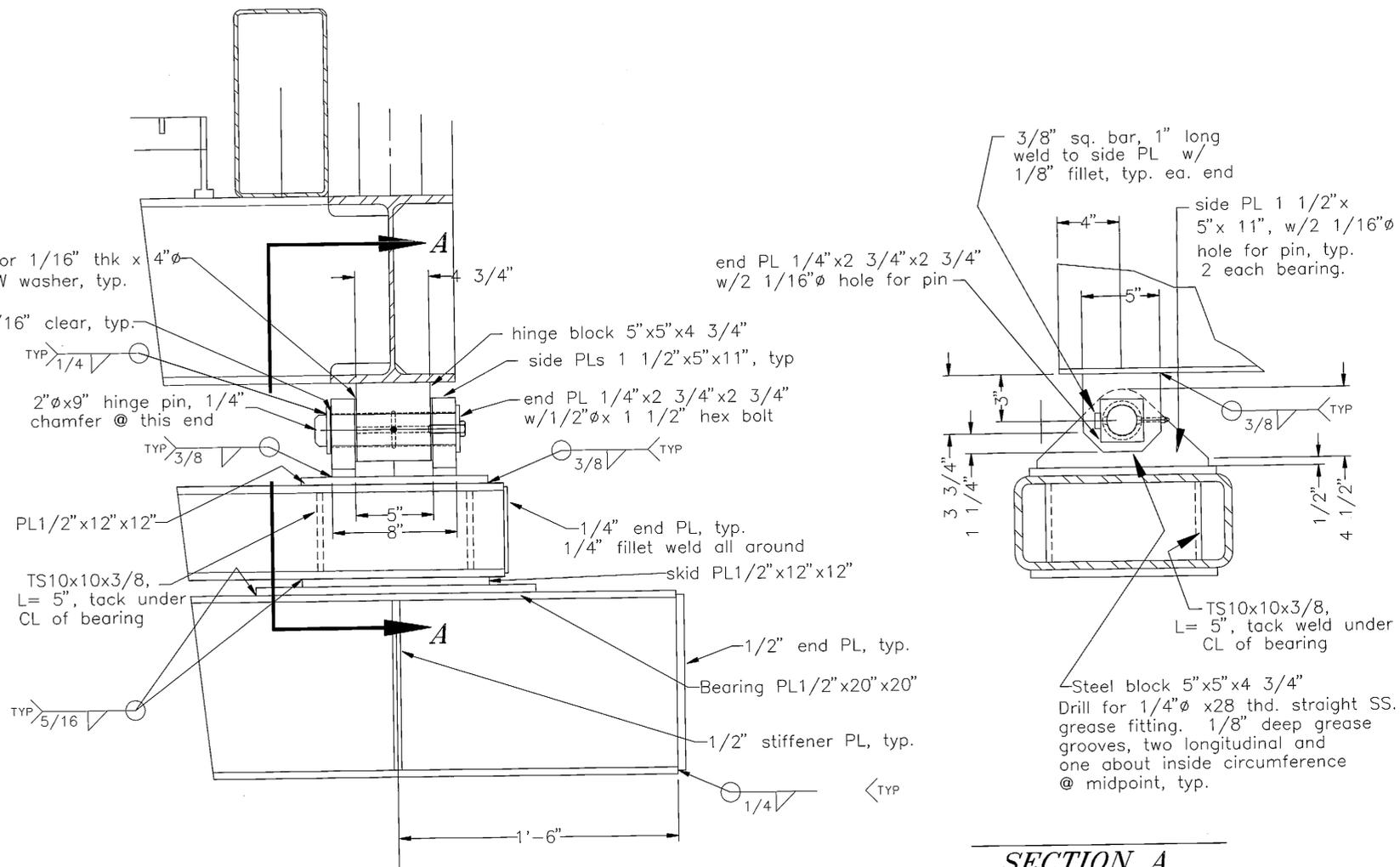




**FRONT ELEVATION**



**CENTER PIN DETAIL ELEVATION**



**BEARING DETAIL ELEVATION**

**SECTION A**

NOTE: DO NOT SCALE FROM THESE PLANS-USE DIMENSIONS

| RECORD OF REVISIONS |      |                       |
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| NO.                 | DATE | DESCRIPTION OF CHANGE |
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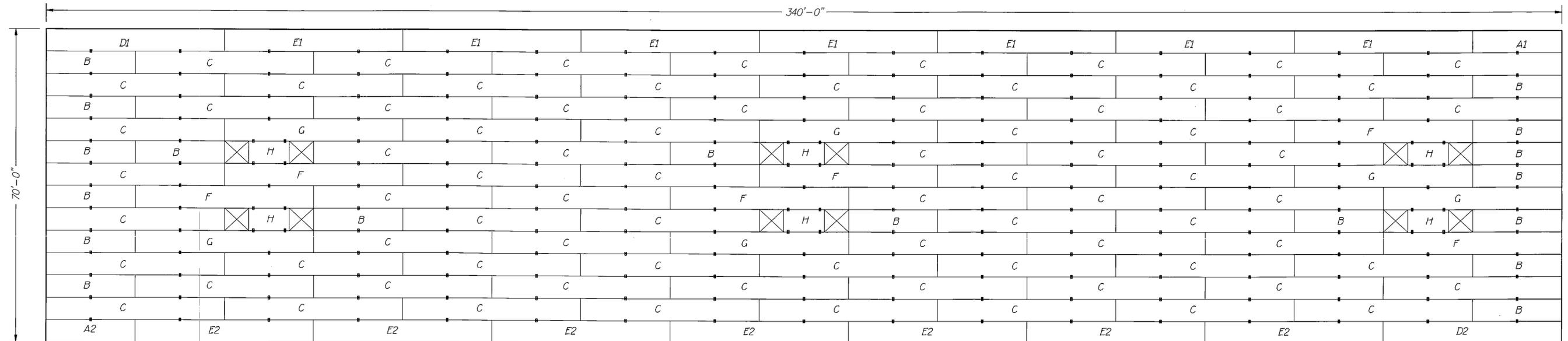
STATE OF ALASKA  
 DEPARTMENT OF TRANSPORTATION  
 AND PUBLIC FACILITIES  
 SOUTHEAST REGION DESIGN & CONSTRUCTION

KETCHIKAN ALASKA  
 KETCHIKAN AIRPORT SEAPLANE FACILITY RECONSTRUCTION  
 A.I.P. No. 3-02-0144-0996 / 71952  
**ABUTMENT BEARING DETAILS**

|                     |                      |
|---------------------|----------------------|
| DESIGNED BY:<br>BAS | PROJECT NO.<br>71952 |
| DRAWN BY:<br>BAS    | DATE:<br>MAY, 1996   |
| CHECKED BY:<br>JAL  | SHEET 20 OF 44       |





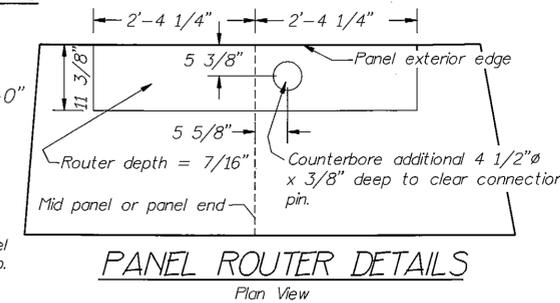
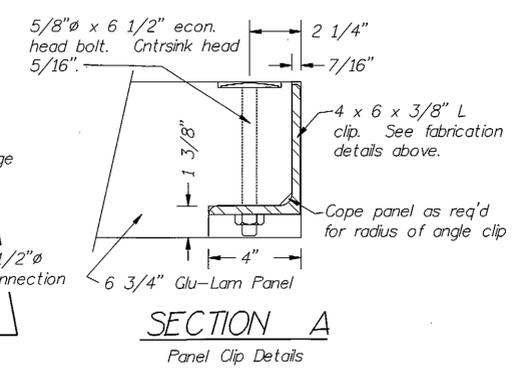
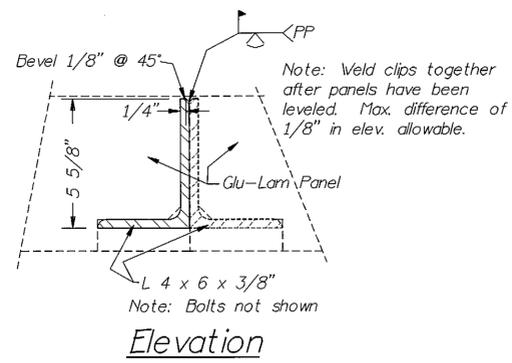
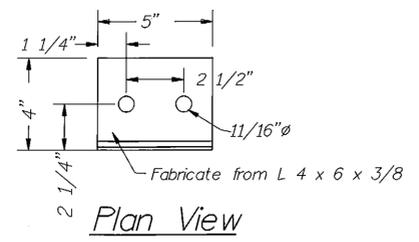
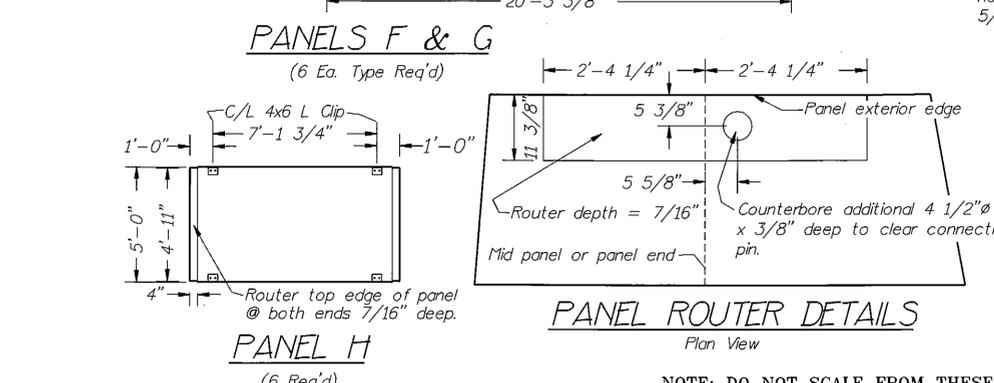
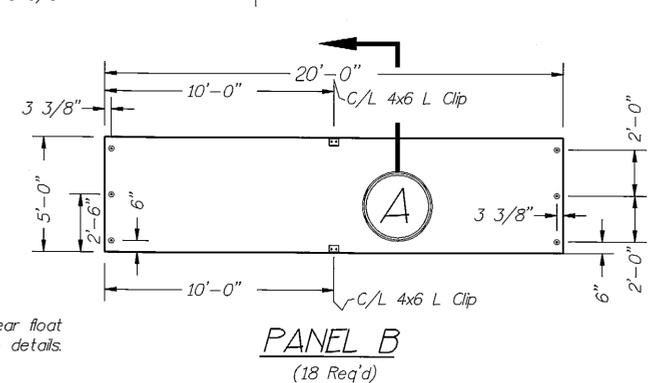
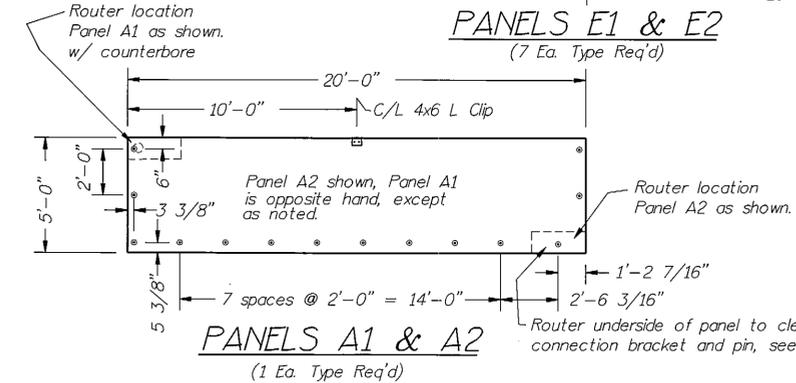
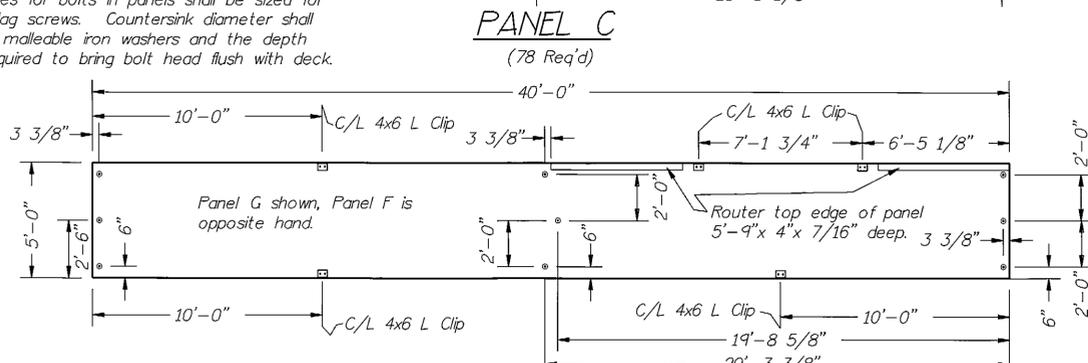
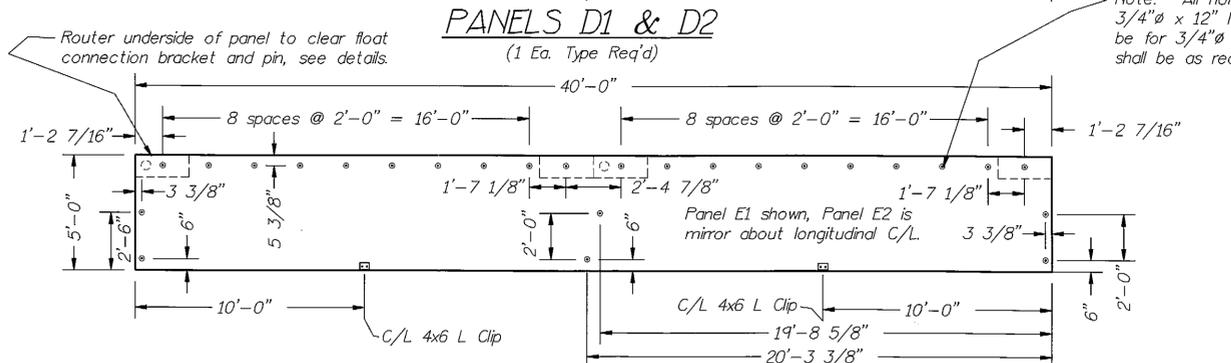
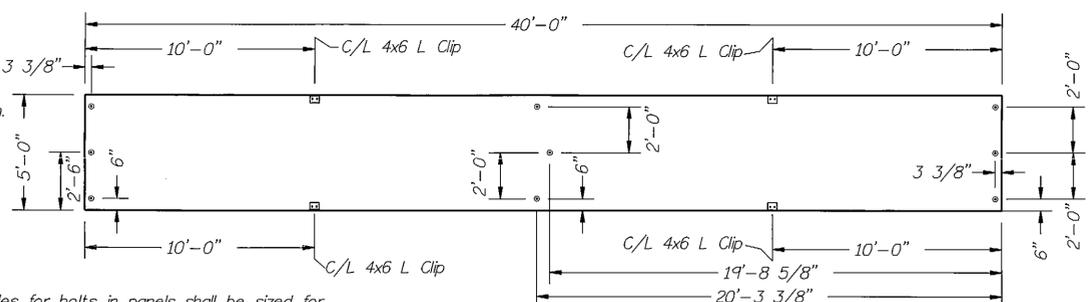
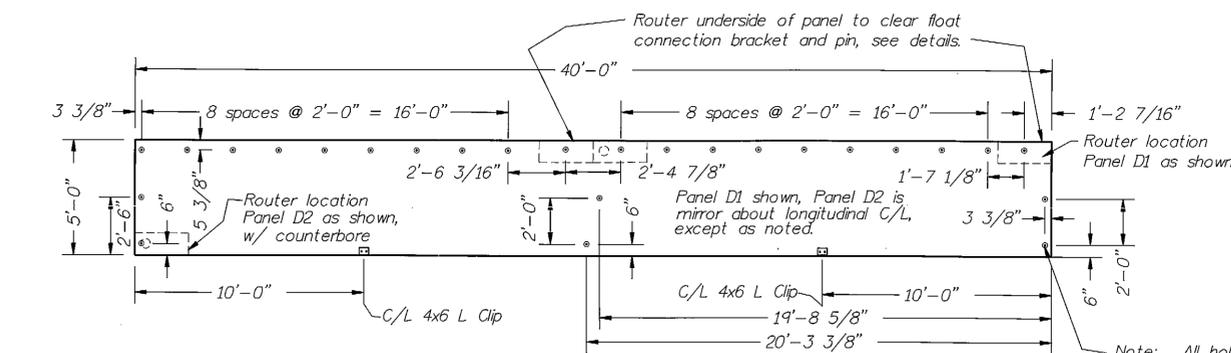


Contractor Note: Panel prefabrication details shown may or may not reflect fabrication details required by other attachments. This drawing should be coordinated with other sheets and details found elsewhere.

### DECK PANEL LAYOUT SCHEDULE

70' X 340' Seaplane Float

Note: All panels shall be Doug Fir, Comb. 3 without camber. The exposed wearing surface shall have a raised grain appearance. The panels shall be preservative treated with penta in light oil to 0.6 lb/cf.



NOTE: DO NOT SCALE FROM THESE PLANS—USE DIMENSIONS

| NO. | DATE | DESCRIPTION OF CHANGE |
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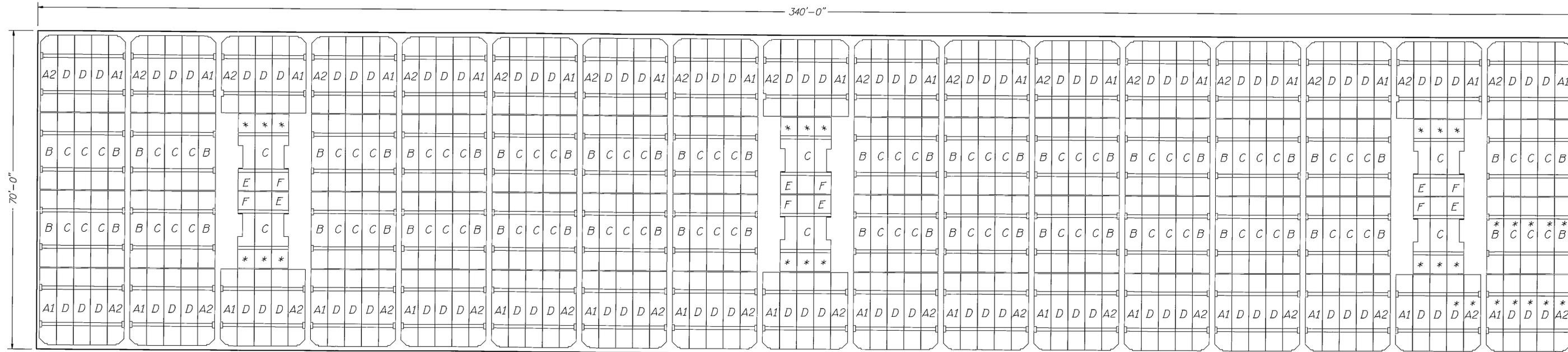
STATE OF ALASKA  
DEPARTMENT OF TRANSPORTATION  
AND PUBLIC FACILITIES  
SOUTHEAST REGION DESIGN & CONSTRUCTION

KETCHIKAN  
KETCHIKAN AIRPORT SEAPLANE FACILITY RECONSTRUCTION  
PROJECT NO. A.I.P. 3-02-0144-0996/71952  
**6 3/4" GLU-LAM DECK PANEL DETAILS**

DESIGNED BY: JAL  
DRAWN BY: JAL  
CHECKED BY: JDB

PROJECT NO. 71952  
DATE: MAY 1996  
SHEET 22 OF 44



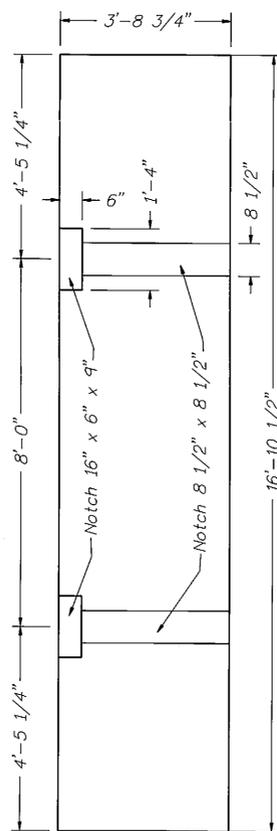


Contractor Note: Billet prefabrication details shown may or may not reflect fabrication details required by other attachments. This drawing should be coordinated with other sheets and details found elsewhere.

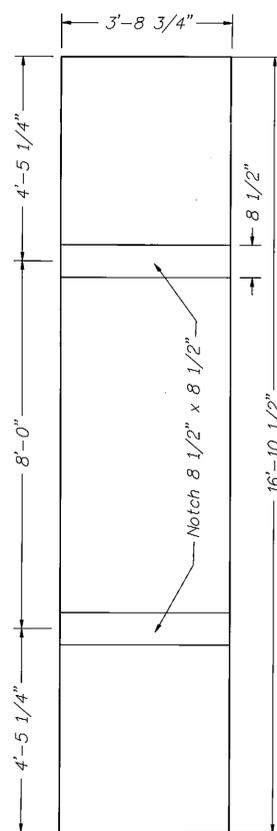
Note: Billets designated by \* are 21 1/2" in depth. Notch underside of billets to accommodate 4x6 lower sill.

**BILLET SCHEDULE**

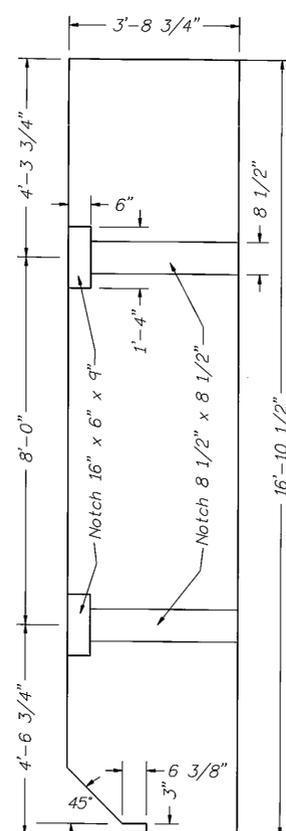
70' X 340' Seaplane Float



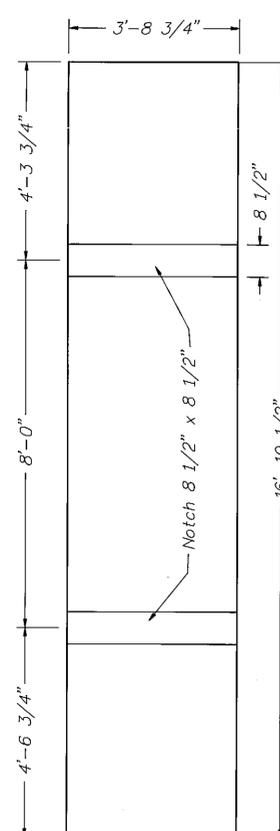
**BILLET "B"**  
(56 req'd)



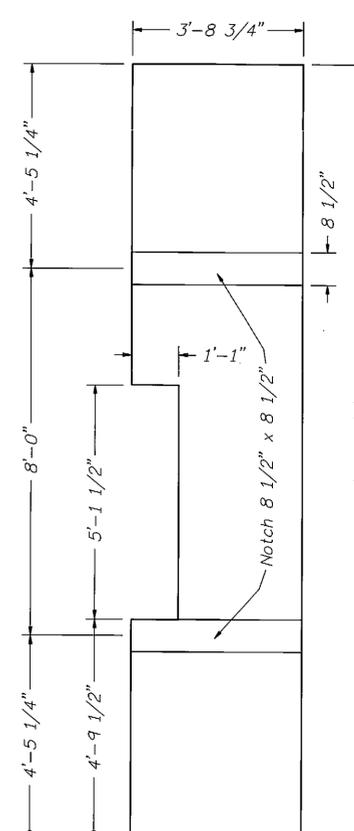
**BILLET "C"**  
(90 req'd)



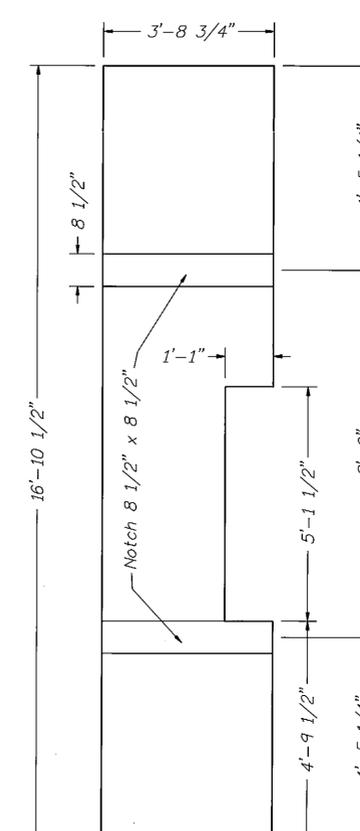
**BILLETS "A1" & "A2"**  
(34 req'd as shown & 34 opposite hand)



**BILLET "D"**  
(102 req'd)



**BILLET "E"**  
(6 req'd)



**BILLET "F"**  
(6 req'd)

Note: All billets are 18" in depth, except as noted.

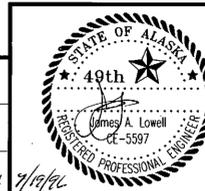
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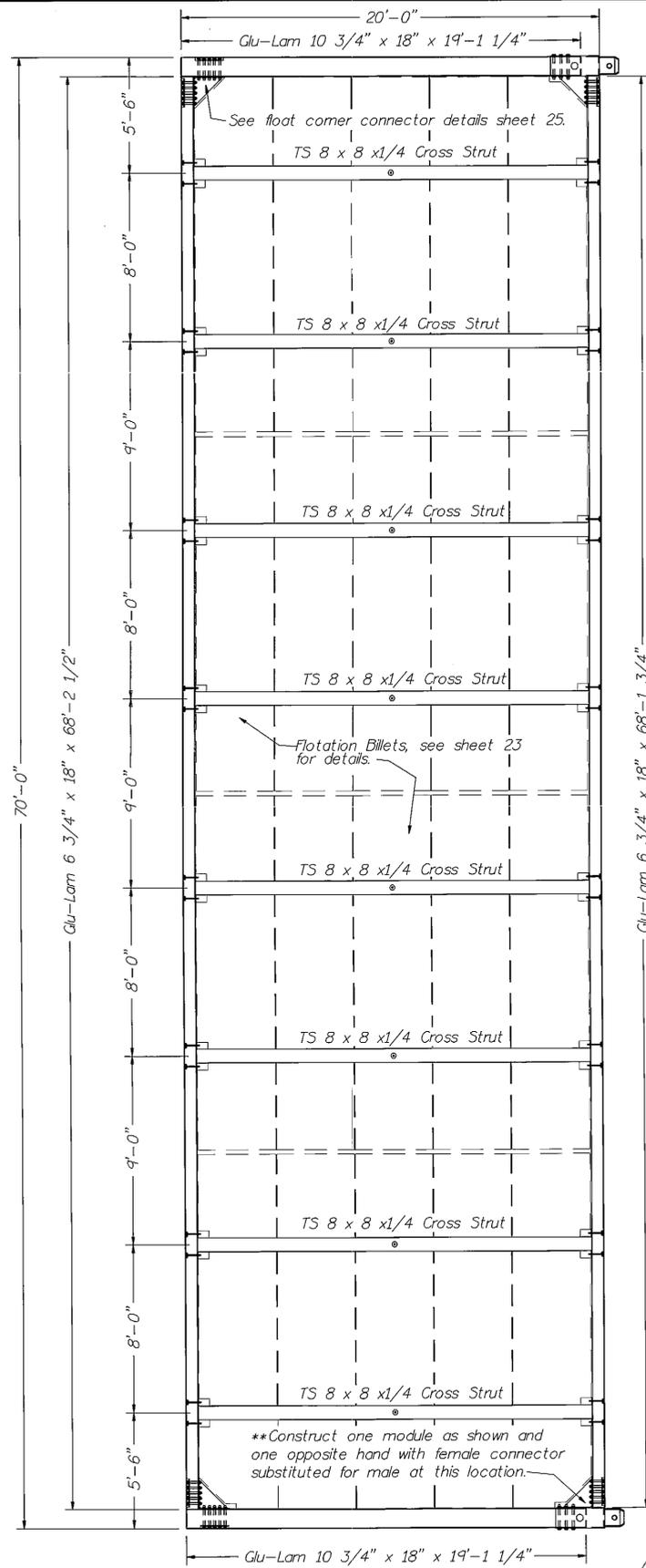
STATE OF ALASKA  
DEPARTMENT OF TRANSPORTATION  
AND PUBLIC FACILITIES  
SOUTHEAST REGION DESIGN & CONSTRUCTION

KETCHIKAN  
KETCHIKAN AIRPORT SEAPLANE FACILITY RECONSTRUCTION  
PROJECT NO. A.I.P. 3-02-0144-0996/71952  
**FLOTATION BILLET DETAILS**

NOTE: DO NOT SCALE FROM THESE PLANS-USE DIMENSIONS

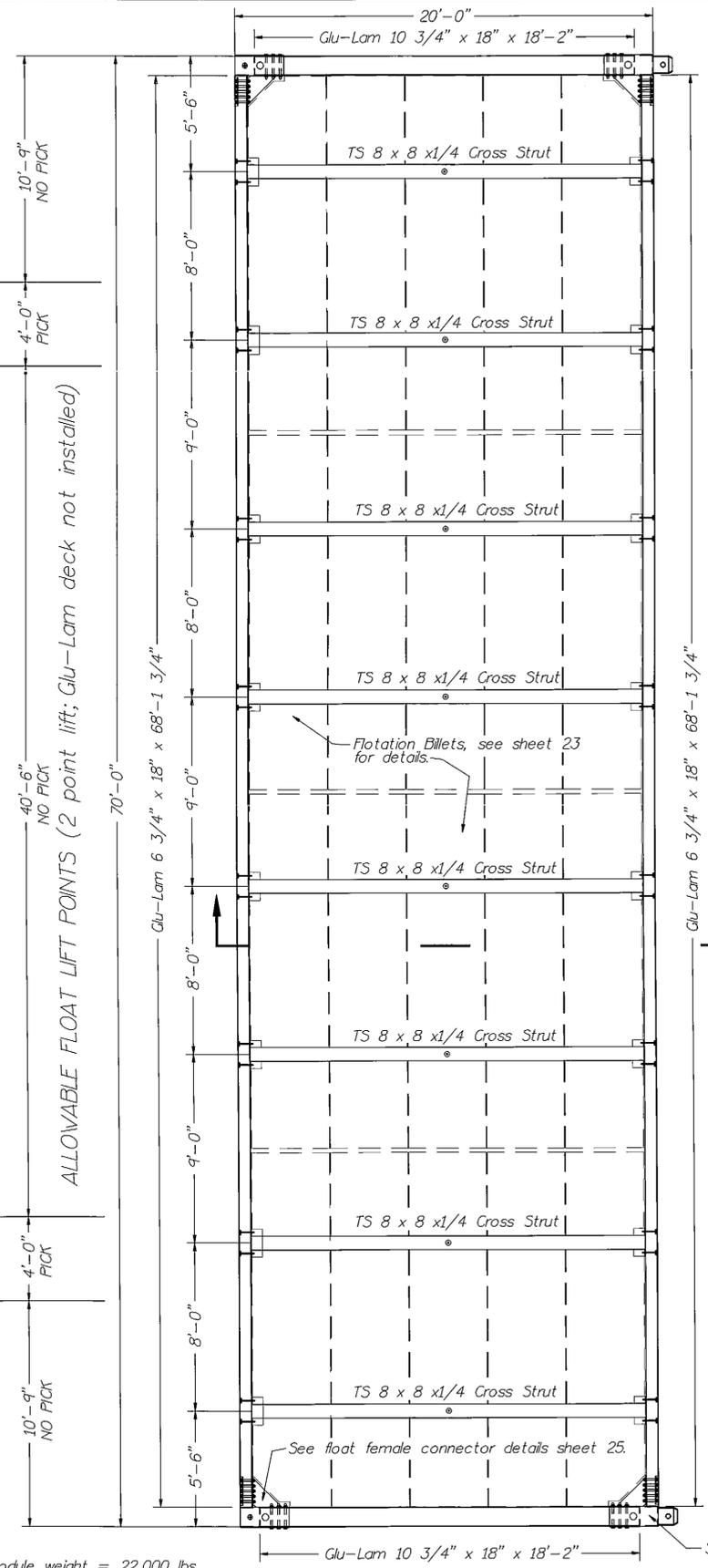
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| DESIGNED BY: | JAL | PROJECT NO.    | 71952    |
| DRAWN BY:    | JAL | DATE:          | MAY 1996 |
| CHECKED BY:  | JDB | SHEET 23 OF 44 | 7/19/96  |



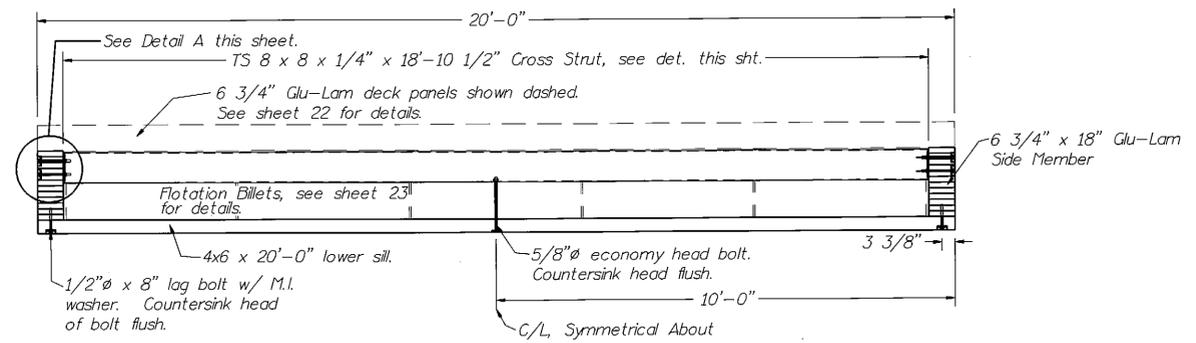


**END FLOAT MODULE**  
(\*\*2 Required)

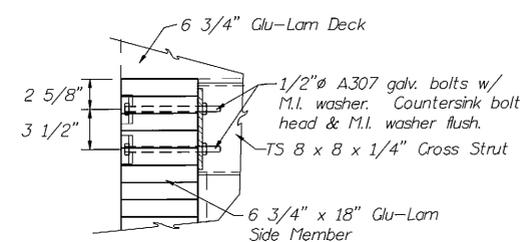
Approx. module weight = 22,000 lbs.



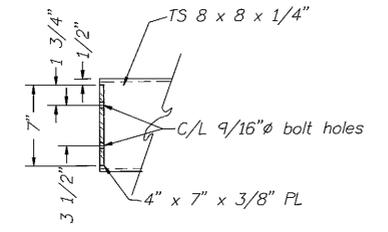
**INTERIOR FLOAT MODULE**  
(15 Required)



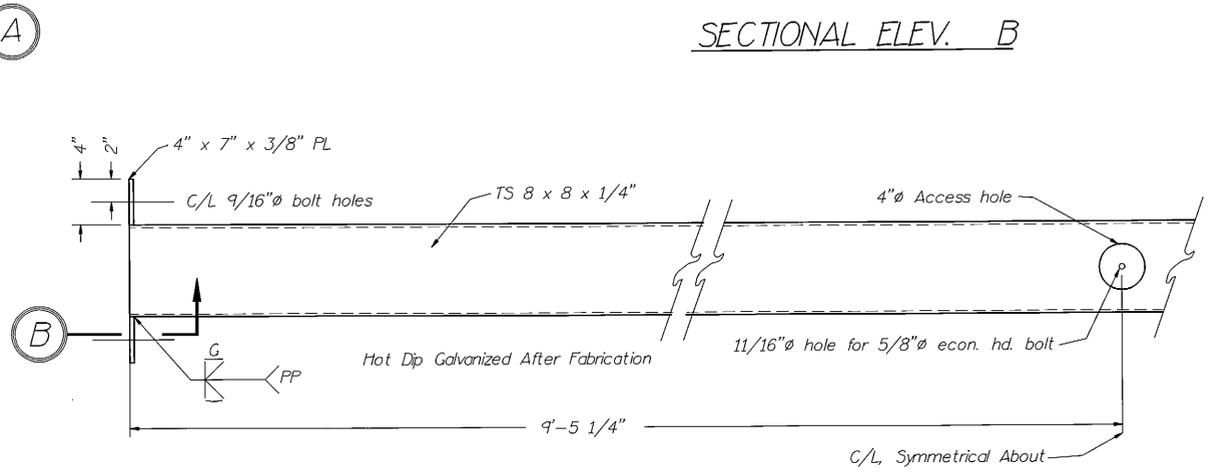
**SECTION A**



**DETAIL A**



**SECTIONAL ELEV. B**



**CROSS STRUT - PLAN**

Contractor Note: Float prefabrication details shown may or may not reflect fabrication details required by other attachments. This drawing should be coordinated with other sheets and details found elsewhere.

|                                |       |                        |
|--------------------------------|-------|------------------------|
| PATH: P: \KTN\71952\MF\SHEET24 |       |                        |
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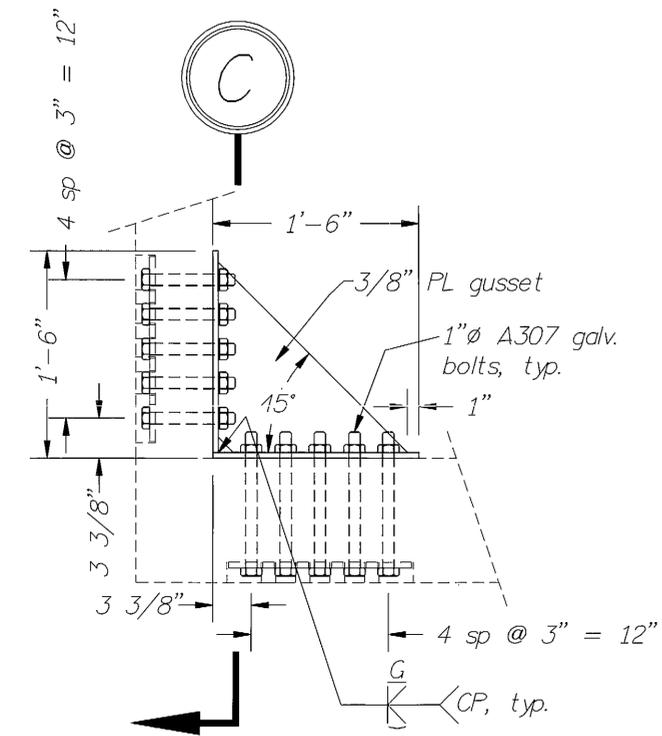
STATE OF ALASKA  
DEPARTMENT OF TRANSPORTATION  
AND PUBLIC FACILITIES  
SOUTHEAST REGION DESIGN & CONSTRUCTION

KETCHIKAN  
KETCHIKAN AIRPORT SEAPLANE FACILITY RECONSTRUCTION  
PROJECT NO. A.I.P. 3-02-0144-0996/71952  
**TYPICAL FLOAT MODULE DETAILS**

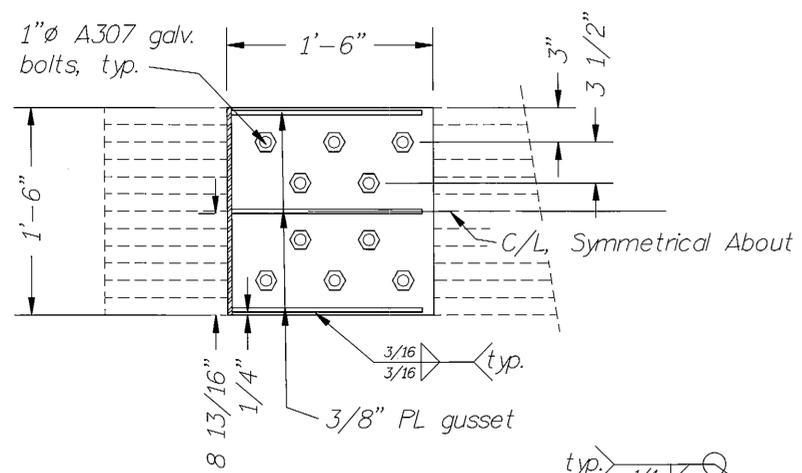
NOTE: DO NOT SCALE FROM THESE PLANS-USE DIMENSIONS

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| DESIGNED BY: | JAL | PROJECT NO. | 71952    |
| DRAWN BY:    | JAL | DATE:       | MAY 1996 |
| CHECKED BY:  | JDB | SHEET       | 24 OF 44 |

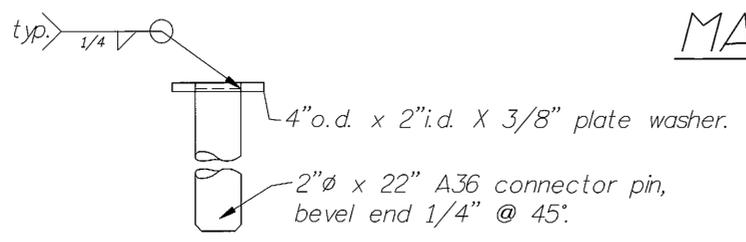




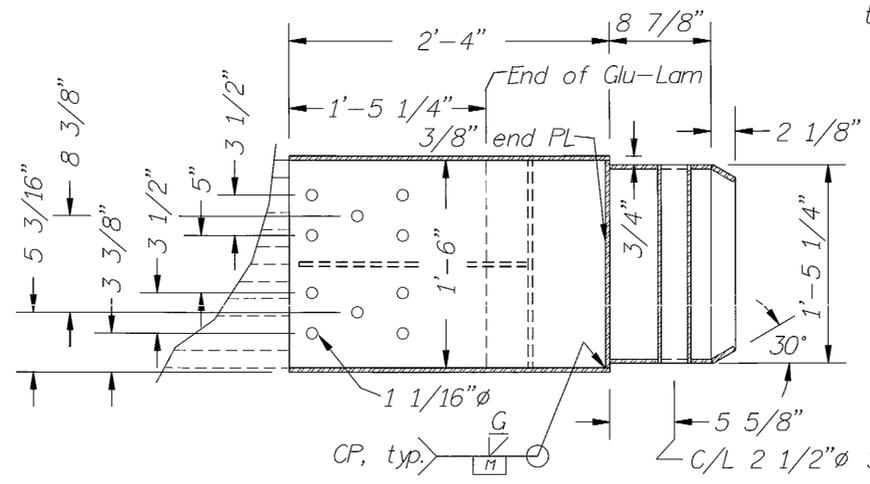
**CORNER CONNECTOR**  
PLAN



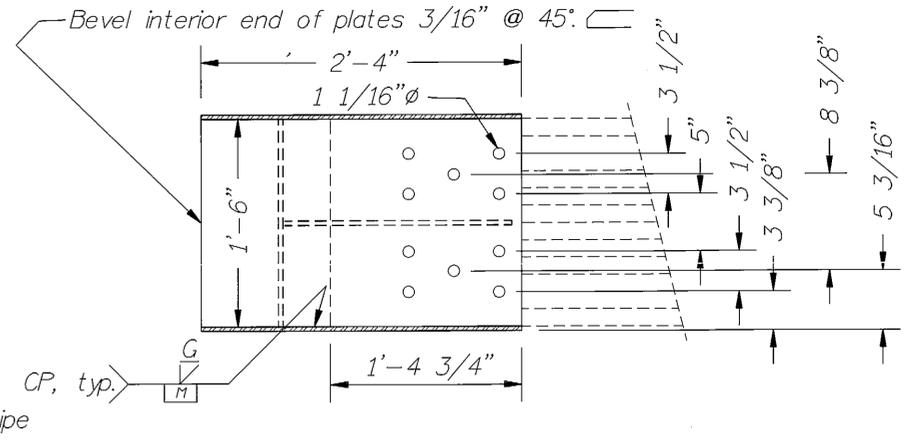
**SECTION C**



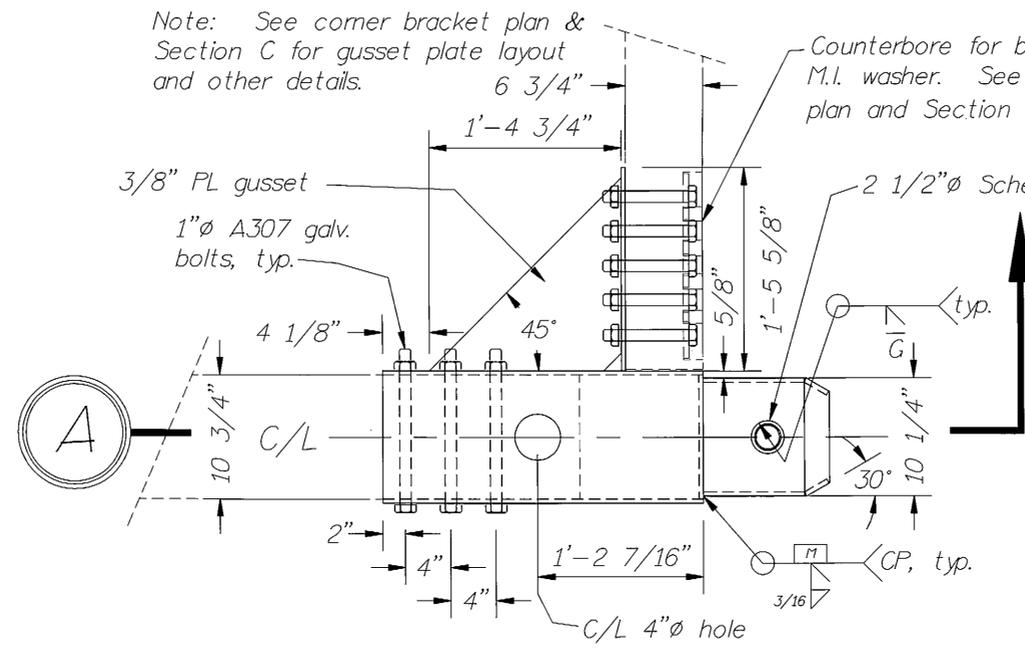
**CONNECTOR PIN**



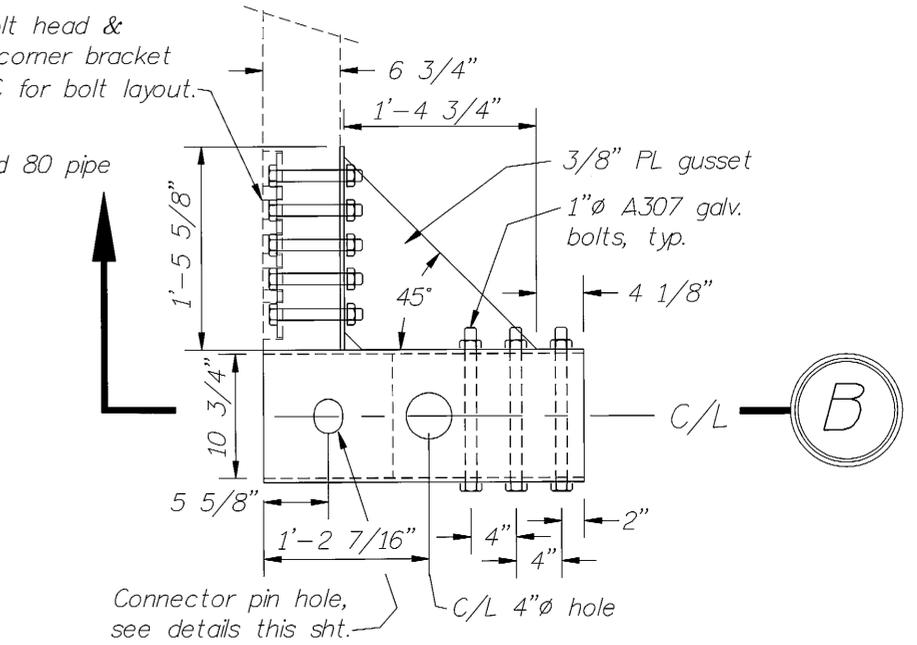
**SECTION A**



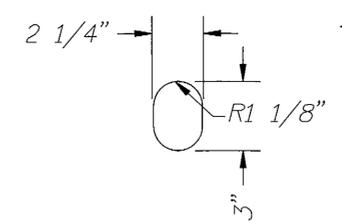
**SECTION B**



**MALE CONNECTOR**  
PLAN



**FEMALE CONNECTOR**  
PLAN



**CONNECTOR PIN HOLE**

Note: Chamfer edges of Glu-Lams as required to clear backing plates for welds.

Note: All plate is 3/8" A36. Hot dip galvanize assembly subsequent to fabrication.

Note: See corner bracket plan & Section C for gusset plate layout and other details.

Counterbore for bolt head & M.I. washer. See corner bracket plan and Section C for bolt layout.

Connector pin hole, see details this sht.

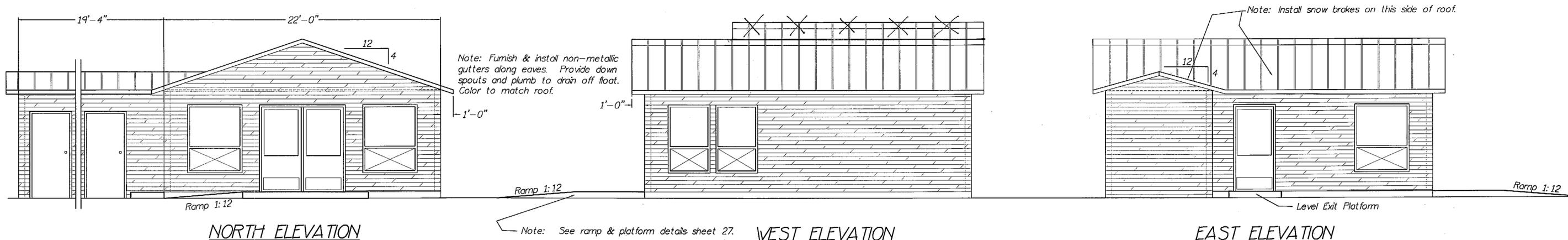
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|---------------------|------|-----------------------|
| NO.                 | DATE | DESCRIPTION OF CHANGE |
|                     |      |                       |
|                     |      |                       |

STATE OF ALASKA  
DEPARTMENT OF TRANSPORTATION  
AND PUBLIC FACILITIES  
SOUTHEAST REGION DESIGN & CONSTRUCTION

KETCHIKAN  
KETCHIKAN AIRPORT SEAPLANE FACILITY RECONSTRUCTION  
PROJECT NO. A.I.P. 3-02-0144-0996/71952  
ALASKA  
**FLOAT CONNECTION DETAILS**

|              |     |             |          |
|--------------|-----|-------------|----------|
| DESIGNED BY: | JAL | PROJECT NO. | 71952    |
| DRAWN BY:    | JAL | DATE:       | MAY 1996 |
| CHECKED BY:  | JDB | SHEET       | 25 OF 44 |

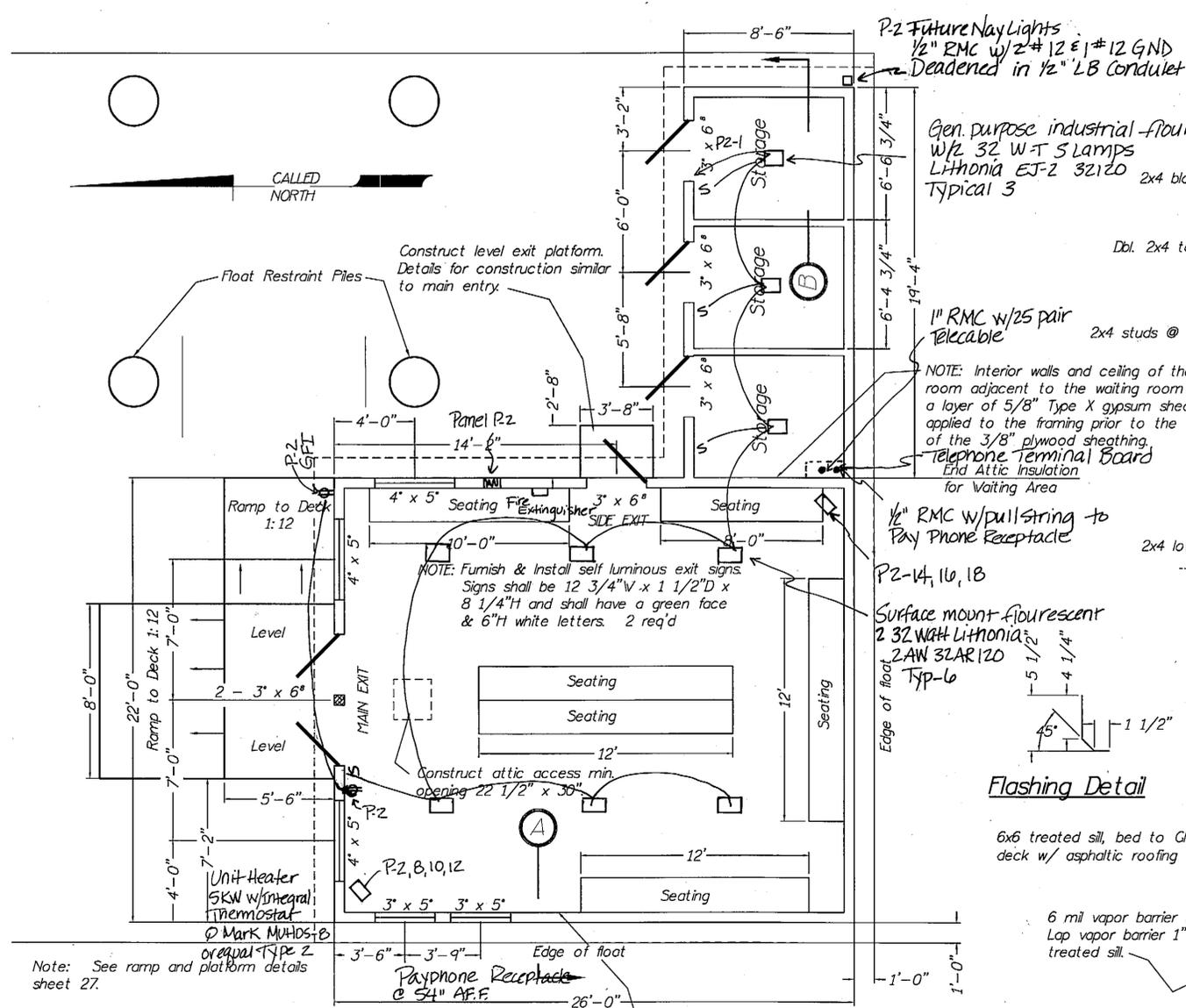




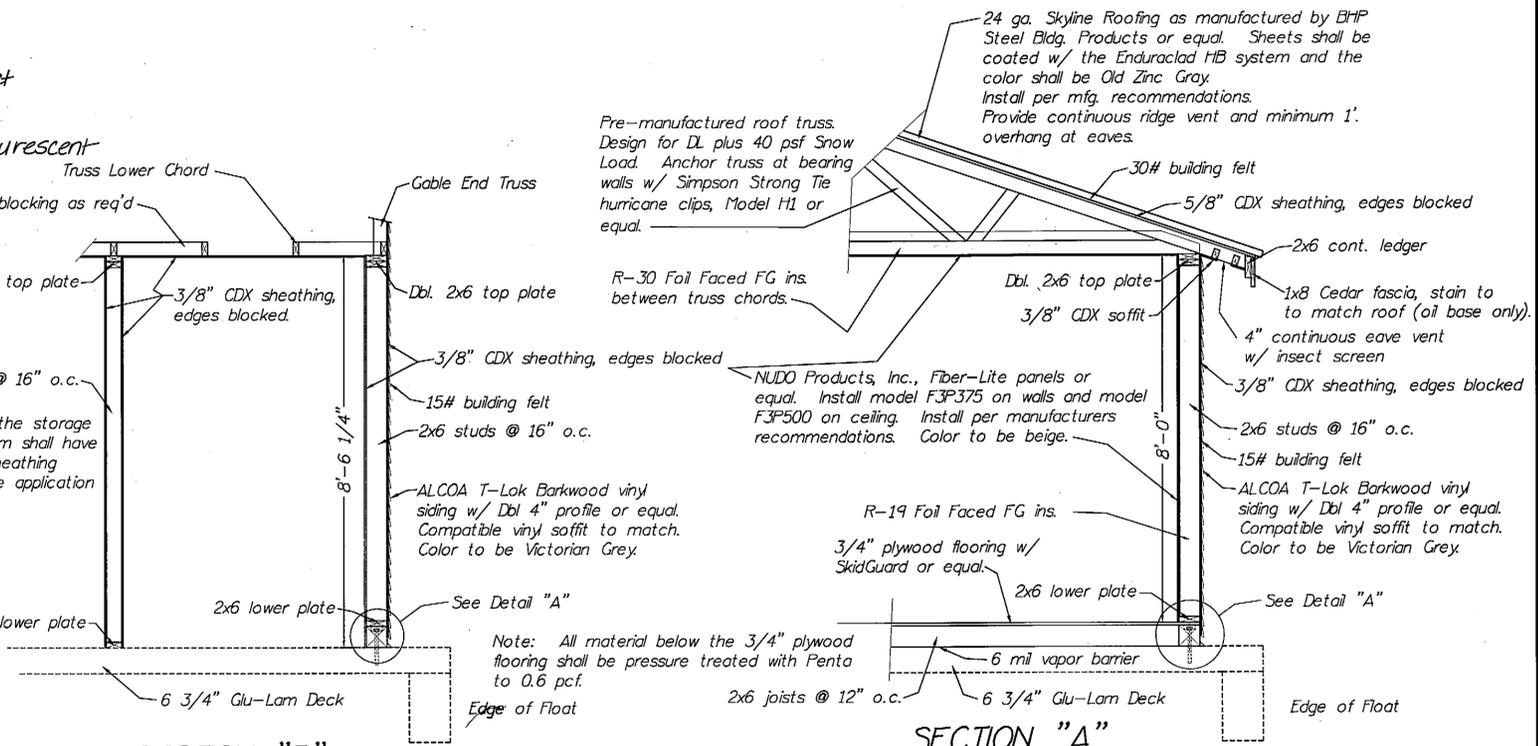
**NORTH ELEVATION**

**WEST ELEVATION**

**EAST ELEVATION**



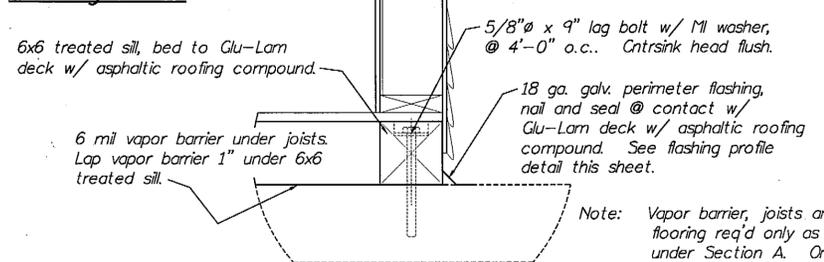
**FLOOR PLAN**  
Passenger Waiting Shelter



**SECTION "B"**

**SECTION "A"**

**Flashing Detail**



**DETAIL "A"**

**General Notes:**

- Seating furnished for the waiting area shall be Fiberglass Model B304-6 as manufactured by RPI Designs or equal. Color shall be C-26, Brown. Seating modules shall be provided with brackets for securing to the floor.
- Doors furnished for the waiting and storage areas shall be Series 2700-Seamless Supercore Galvanized Steel Doors as manufactured by Amweld Building Products. They shall be of the swing indicated, be 1 3/4" in thickness and constructed w/ 16 ga. material. Waiting Area entry and exit doors shall be Design G and Storage Area doors shall be Design F. All doors shall be shop painted and the color shall be ~~Slight Blue~~ **DARK BROWN**. Main exit doors shall be fitted with head mounted closers, push/pull bars, kickplates both sides and keyed deadbolts. Storage Area doors shall be fitted with commercial grade stainless steel cylindrical key-in-the-knob locksets. The side exit door shall be fitted with a head mounted closer, stainless steel, UL listed, panic hardware and a keyed knob outside trim. All doors shall be furnished with 1/2" high aluminum threshold assemblies and weather stripping. The main exit shall be furnished with a metallic sign w/ 1" H letters on a contrasting background, which reads, "THESE DOORS MUST REMAIN UNLOCKED DURING BUSINESS HOURS".
- Windows furnished shall be wood frame/vinyl coated and be of the double unit awning type. The operable portion of the unit shall be fitted with insect screening. All glazing shall be safety glazing. Color of frame finish shall match that of the doors.
- Payment for all work associated with the passenger waiting shelter, access ramps & platforms shall be made under Pay Item 502(1).

NOTE: DO NOT SCALE FROM THESE PLANS-USE DIMENSIONS

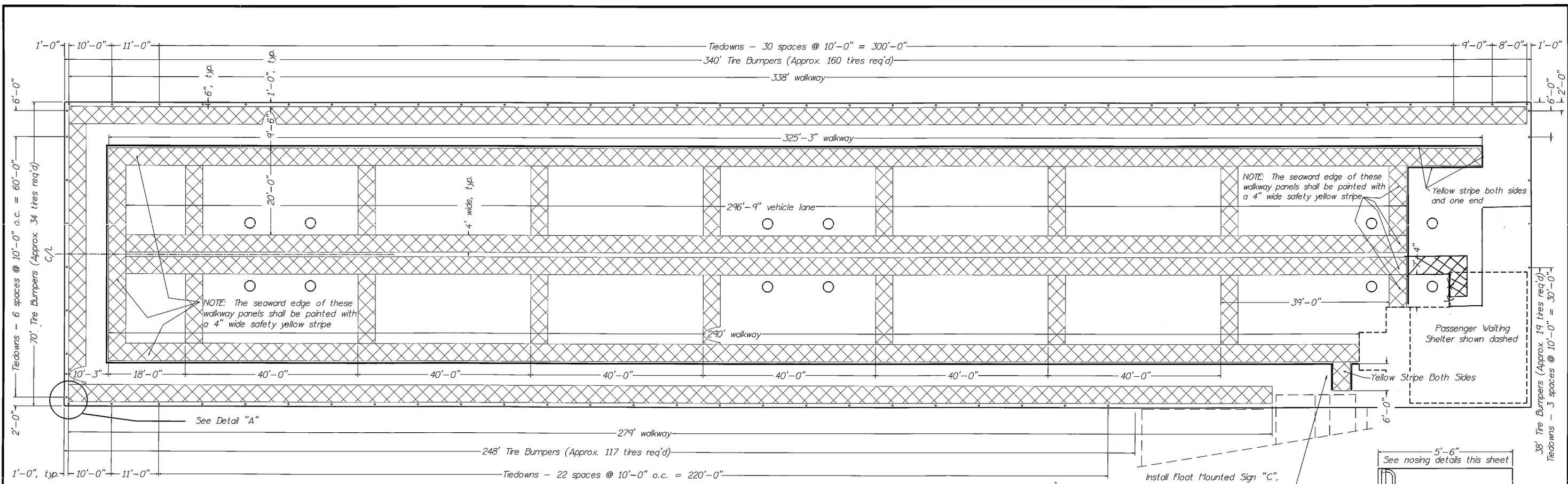
| BY: | DATE:    | DESCRIPTION OF CHANGE:                                |
|-----|----------|---|
| JAL | 10/14/96 | Revised floor plan to conform w/ Fire Marshall review |
| JAL | 10/25/96 | Revised side exit door hardware & wall inst.          |

STATE OF ALASKA  
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AND PUBLIC FACILITIES  
SOUTHEAST REGION DESIGN & CONSTRUCTION

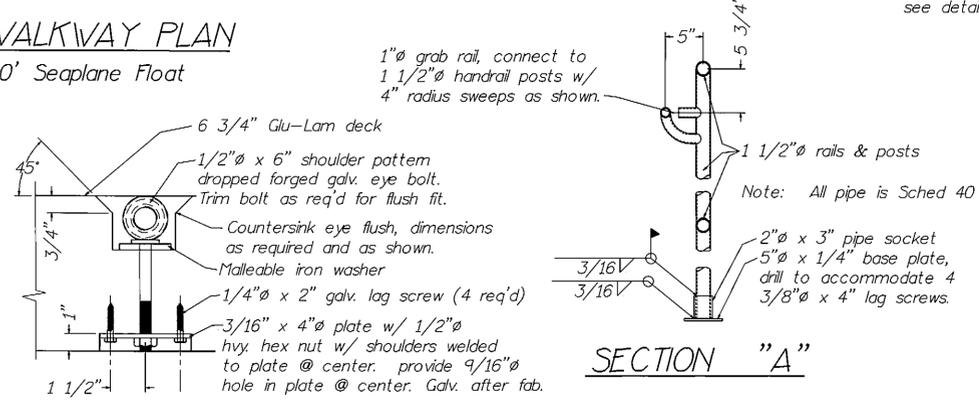
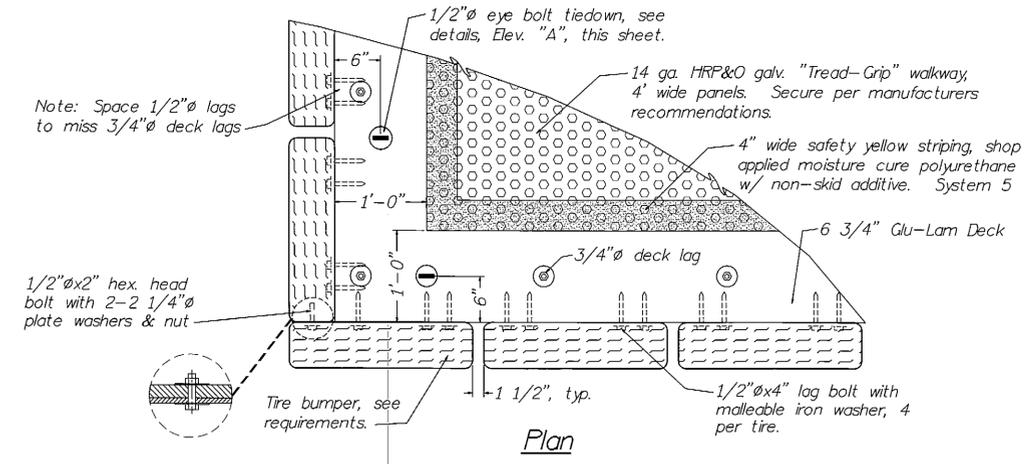
KETCHIKAN  
KETCHIKAN AIRPORT SEAPLANE FACILITY RECONSTRUCTION  
PROJECT NO. A.I.P. 3-02-0144-0996/71952  
**PASSENGER WAITING SHELTER**

|              |     |             |          |
|--------------|-----|-------------|----------|
| DESIGNED BY: | JAL | PROJECT NO. | 71952    |
| DRAWN BY:    | JAL | DATE:       | MAY 1996 |
| CHECKED BY:  | JDB | SHEET       | 26 OF 44 |



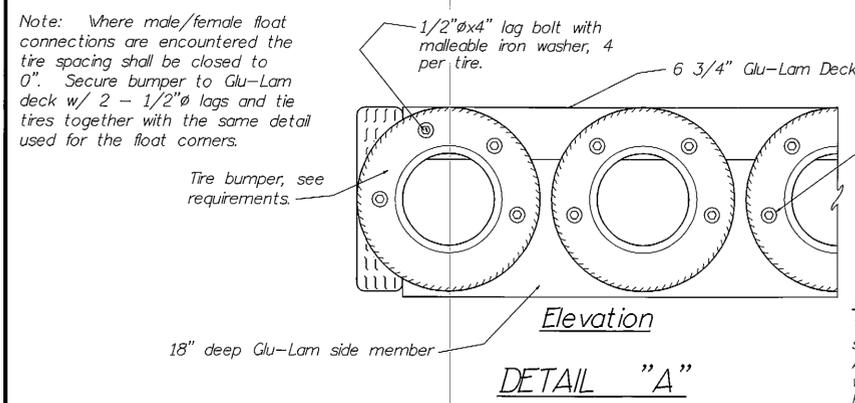
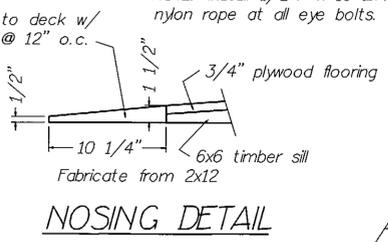


**FLOAT WALKWAY PLAN**  
 70' X 340' Seaplane Float

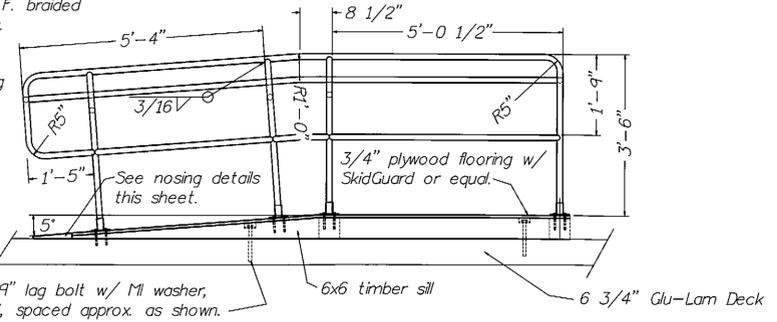


**ELEVATION "A"**

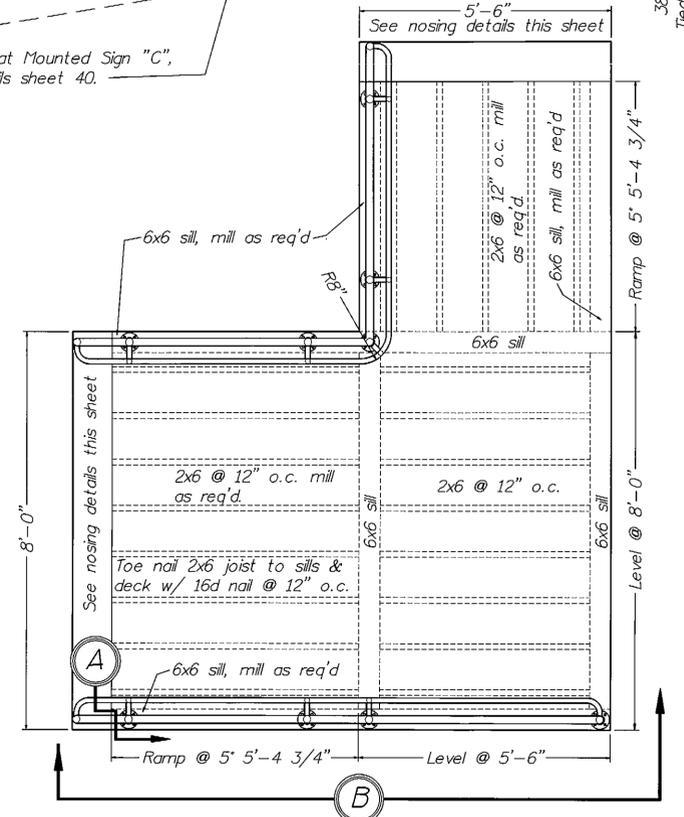
NOTE: Install 1/2" x 10 L.F. braided nylon rope at all eye bolts.



**NOTES:**  
 Tires shall be 13" series with a minimum 1/8" deep summer or all season tread. No heavy lugs or studs. All of the tires shall be of the same width and diameter with a maximum allowable variation of 1/2".  
 Paint tires per specification.



Note: All dimension and fabricated timber shall be penta treated to 0.6 pcf.

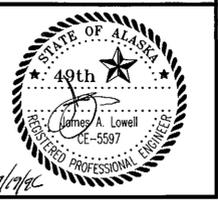


| RECORD OF REVISIONS |      |                       |
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| NO.                 | DATE | DESCRIPTION OF CHANGE |
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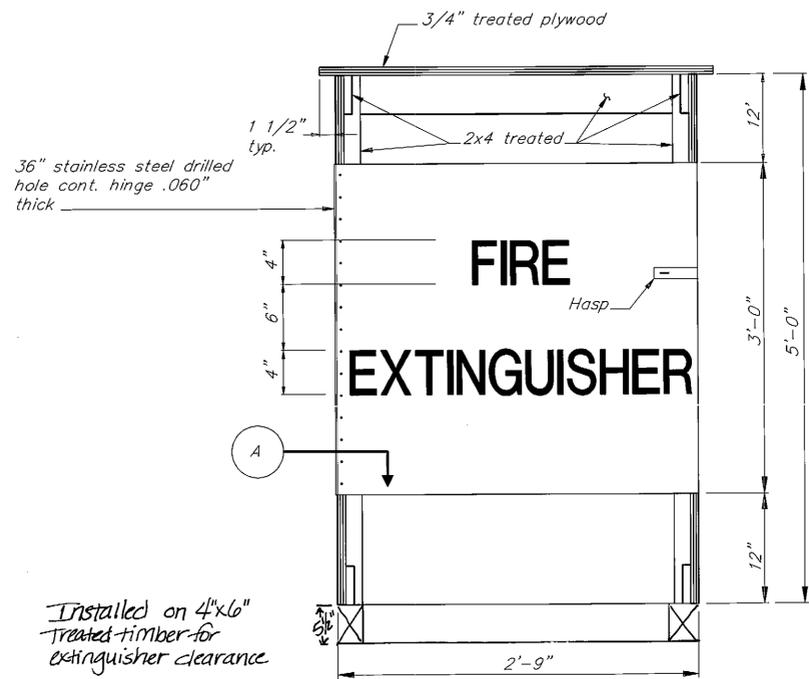
STATE OF ALASKA  
 DEPARTMENT OF TRANSPORTATION  
 AND PUBLIC FACILITIES  
 SOUTHEAST REGION DESIGN & CONSTRUCTION

KETCHIKAN  
 KETCHIKAN AIRPORT SEAPLANE FACILITY RECONSTRUCTION  
 PROJECT NO. A.I.P. 3-02-0144-0996/71952  
**FLOAT WALKWAY & MISC. DETAILS**

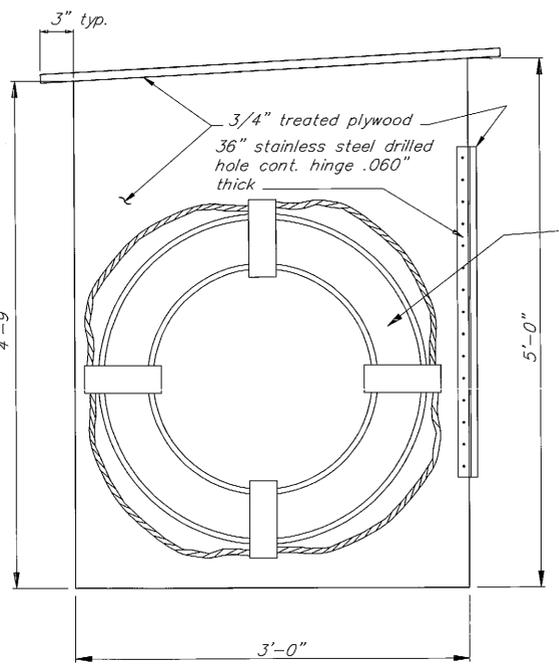
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| DESIGNED BY: | JAL | PROJECT NO.    | 71952    |
| DRAWN BY:    | JAL | DATE:          | MAY 1996 |
| CHECKED BY:  | JDB | SHEET 27 OF 44 | 7/19/96  |



NOTE: DO NOT SCALE FROM THESE PLANS-USE DIMENSIONS



**FRONT ELEVATION**



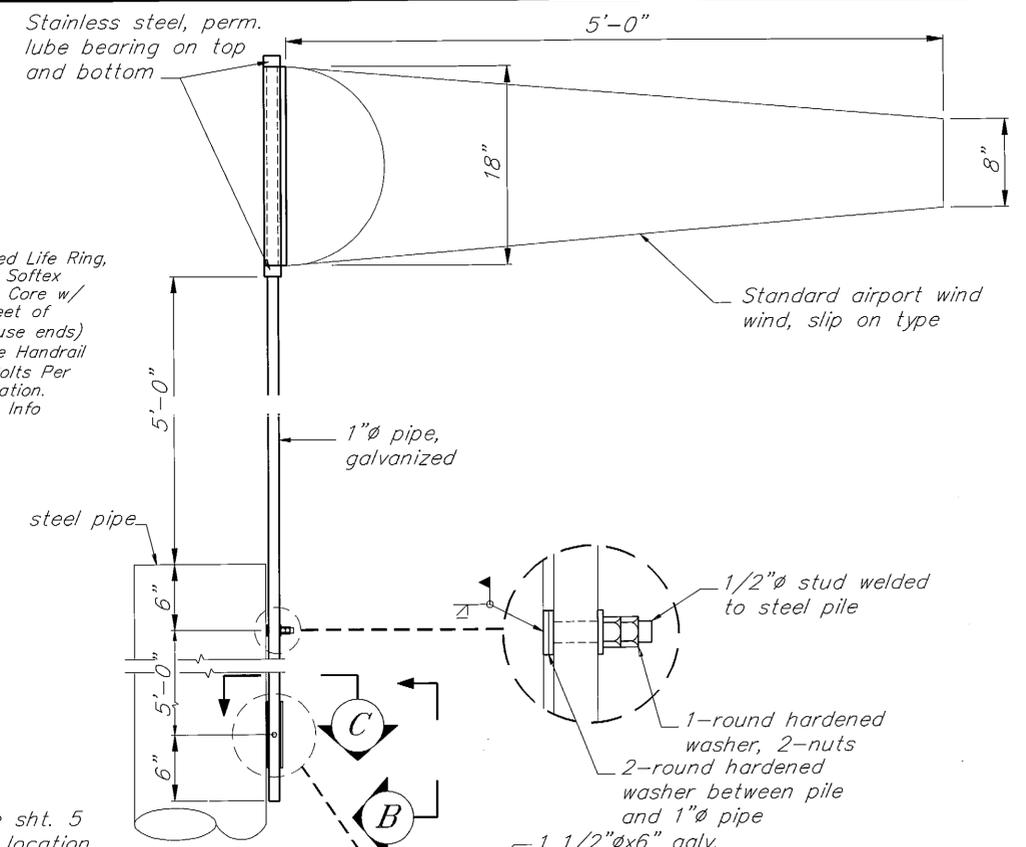
**SIDE ELEVATION**

**FIRE EXTINGUISHER CABINET**

3 Req'd

Installed on 4"x6" treated timber for extinguisher clearance

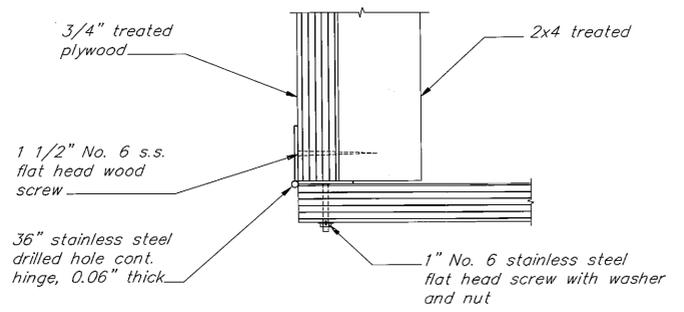
Provide Coast Guard Approved Life Ring, 30"Ø Type 4 PFD, Orange Softex Covered Closed Cell Plastic Core w/ Rope Grab Ring and 100 feet of Polypropelene Hand Line (fuse ends) Mount To Mooring Structure Handrail With Galvanized Clamp & Bolts Per Manufacturer's Recommendation. Submit Ring & Attachment Info For Approval.



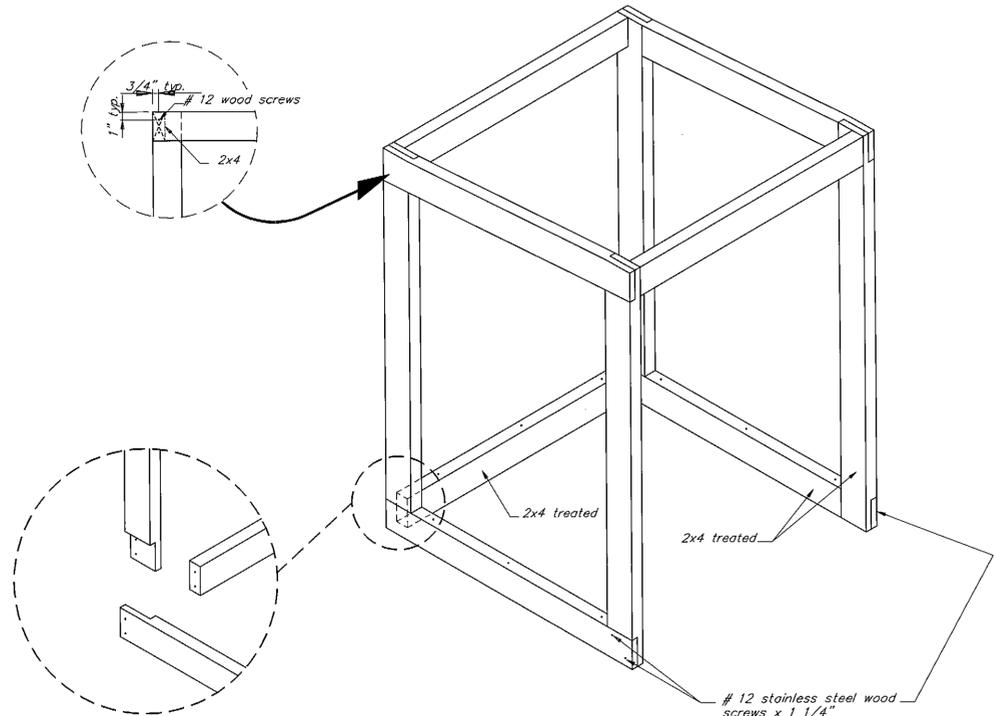
**WIND CONE DETAIL**

1 REQUIRED

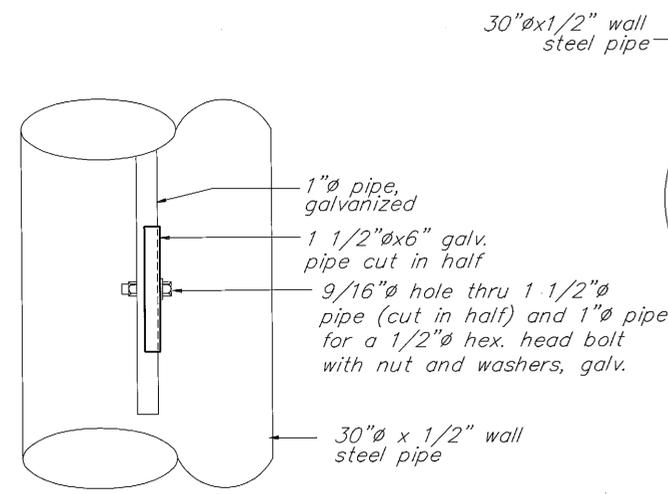
See sht. 5 for location



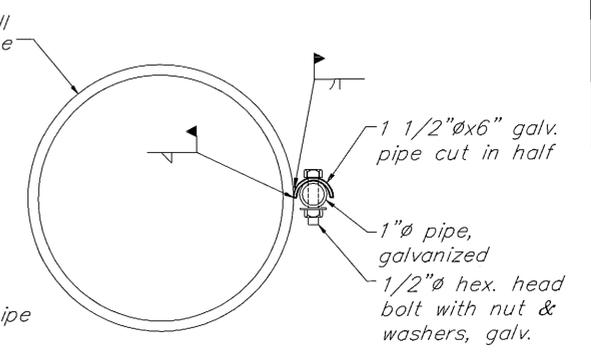
**SECTION A**



**FRAMING ISOMETRIC**



**SECTION B**



**SECTION C**

**NOTES:**

- All connections, unless otherwise noted to be predrilled for # 12 s.s. wood screws 3 1/2" long, 2 per connection.
- Secure cabinet to float deck with 3- # 16 s.s. wood screws 5 1/2" long, equally spaced in each bottom member (total 9).
- Plywood nailed to frame with 6d nails at 6" on center.
- Cabinet shall be painted red with words "FIRE EXTINGUISHER" painted in bold white letters on the front. Lettering shall be 4" high.
- Furnish & install 1 UL Rated 20BC carbon dioxide fire extinguisher per cabinet. The fire extinguisher shall be cart mounted, have a capacity of 50 lbs. and be furnished with a minimum length of 15 feet of hose. 3 installations required.

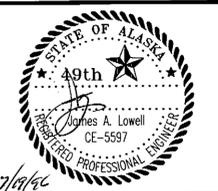
NOTE: DO NOT SCALE FROM THESE PLANS-USE DIMENSIONS

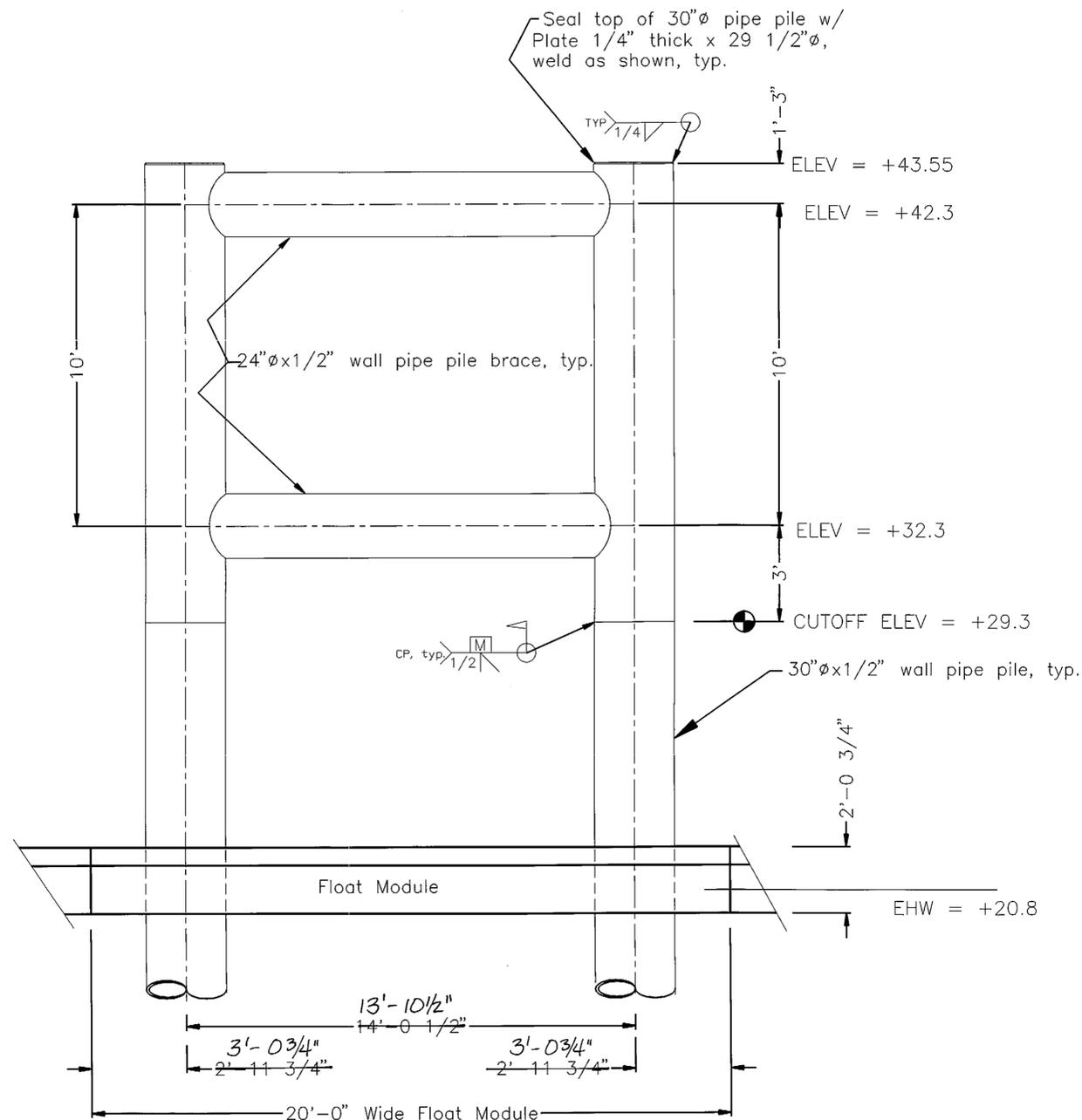
| RECORD OF REVISIONS |      |                       |
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| NO.                 | DATE | DESCRIPTION OF CHANGE |
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STATE OF ALASKA  
DEPARTMENT OF TRANSPORTATION  
AND PUBLIC FACILITIES  
SOUTHEAST REGION DESIGN & CONSTRUCTION

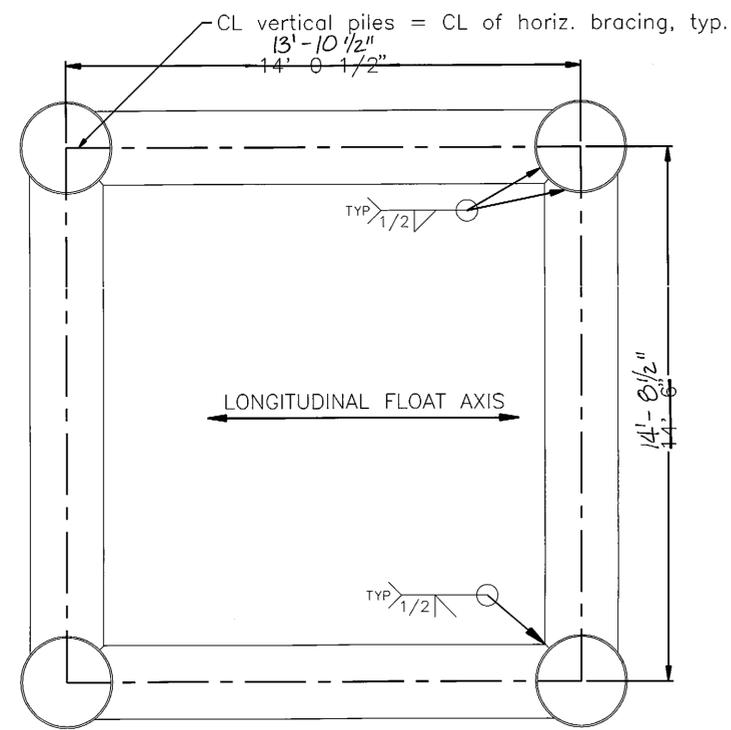
KETCHIKAN  
KETCHIKAN AIRPORT SEAPLANE FACILITY RECONSTRUCTION  
PROJECT NO. A.I.P. 3-02-0144-0996/71952  
**FIRE EXTINGUISHER & CABINET DETAILS**

|              |        |                |          |
|--------------|--------|----------------|----------|
| DESIGNED BY: | JAL/DS | PROJECT NO.    | 71952    |
| DRAWN BY:    | JAL/DS | DATE:          | MAY 1996 |
| CHECKED BY:  | JAL    | SHEET 28 OF 44 | 7/19/96  |

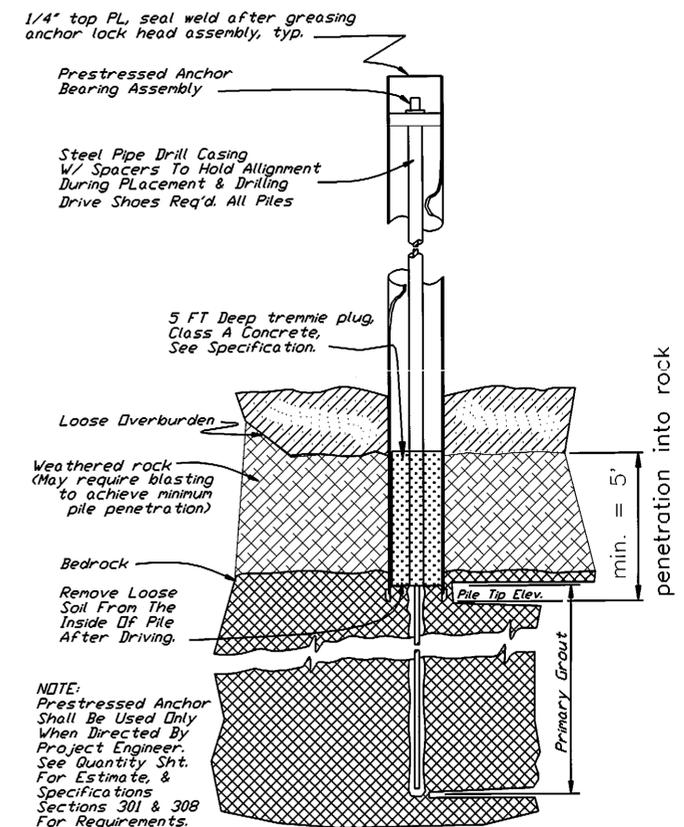




**ELEVATION**



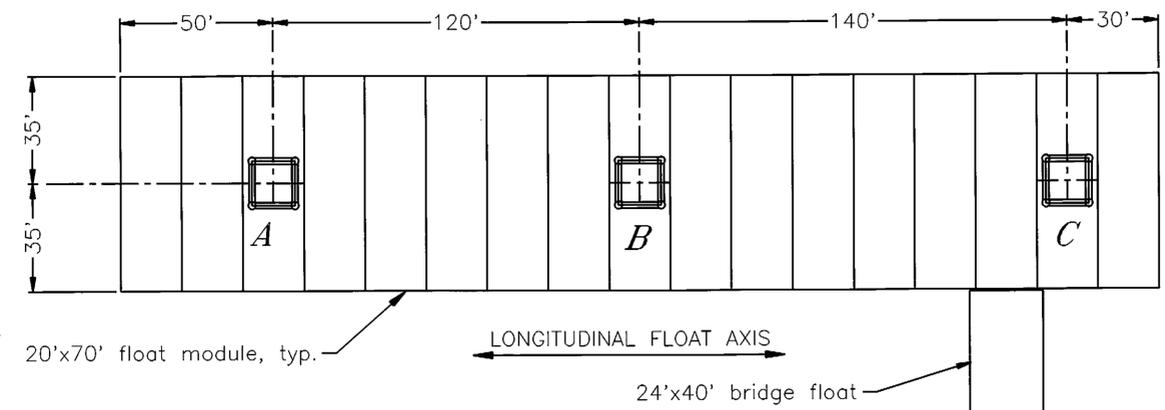
**PLAN**



**CONCEPTUAL PRESTRESSED PILE ANCHOR**

(Contractor to submit details)

Pile anchors not used; Contractor drilled & shot sockets 15' deep



**RESTRAINT STRUCTURE LAYOUT**

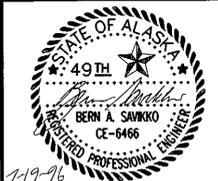
NOTE: DO NOT SCALE FROM THESE PLANS-USE DIMENSIONS

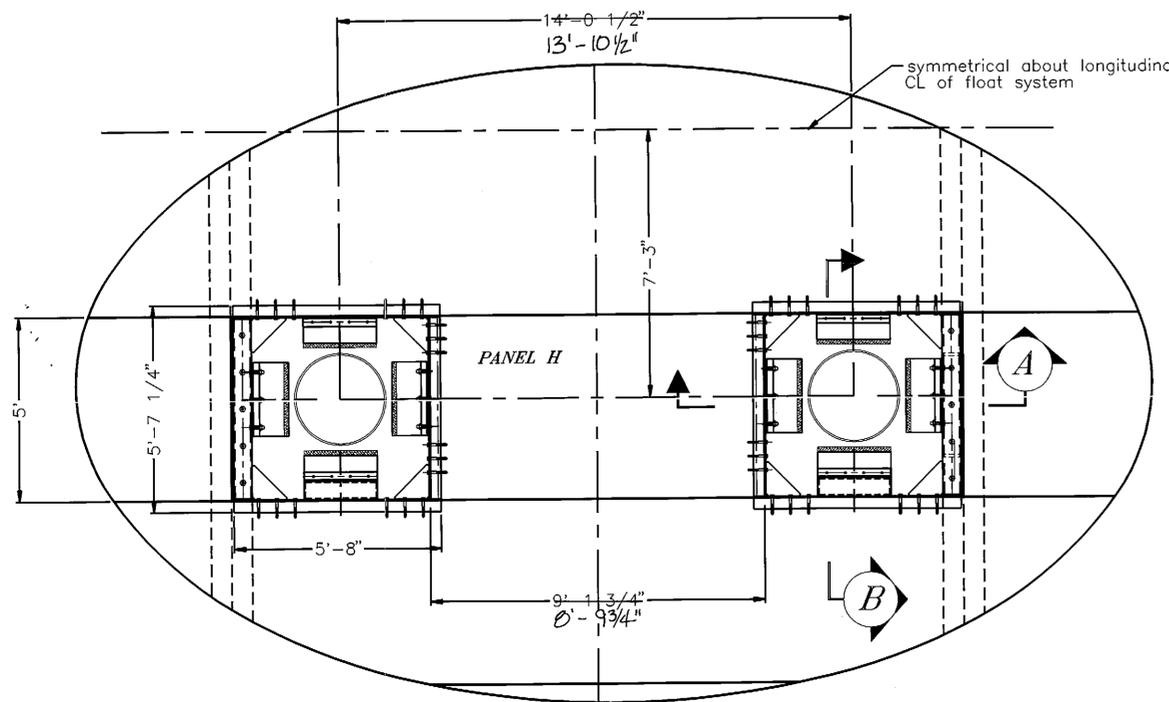
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| BY:                               | DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES | KETCHIKAN AIRPORT SEAPLANE FACILITY RECONSTRUCTION |        | BAS          | 71952          |
| DATE:                             | SOUTHEAST REGION DESIGN & CONSTRUCTION             | A.I.P. No. 3-02-0144-0996 / 71952                  |        | DRAWN BY:    | DATE:          |
| DESCRIPTION OF CHANGE:            |  | <b>RESTRAINT STRUCTURES</b>                        |        | BAS          | MAY, 1996      |
| RECORD OF REVISIONS               |  |  |        | CHECKED BY:  | SHEET 29 OF 44 |
|                                   |  |  |        | JAL          | 7-19-96        |

STATE OF ALASKA  
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES  
SOUTHEAST REGION DESIGN & CONSTRUCTION

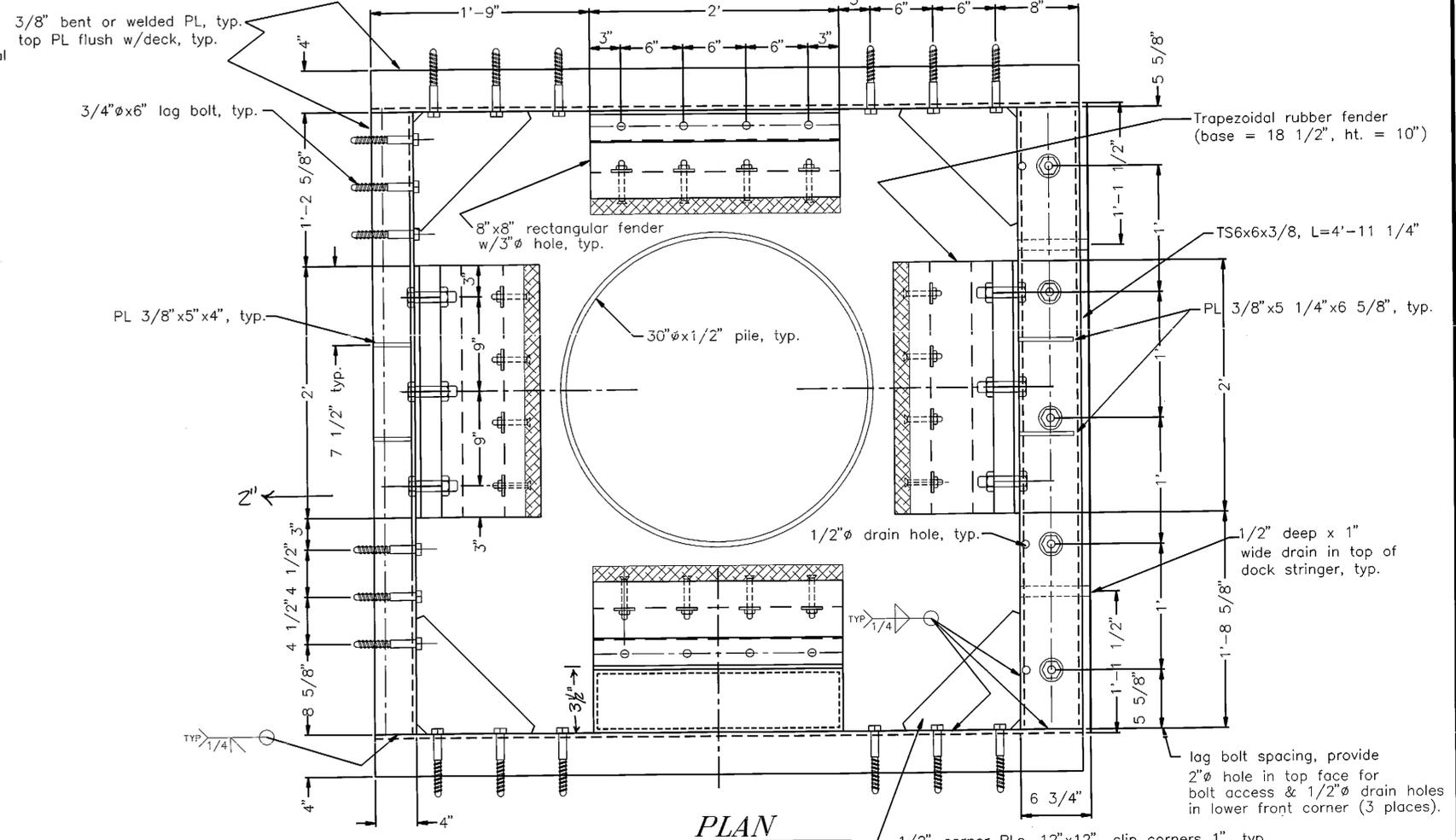
KETCHIKAN  
KETCHIKAN AIRPORT SEAPLANE FACILITY RECONSTRUCTION  
ALASKA  
A.I.P. No. 3-02-0144-0996 / 71952  
**RESTRAINT STRUCTURES**

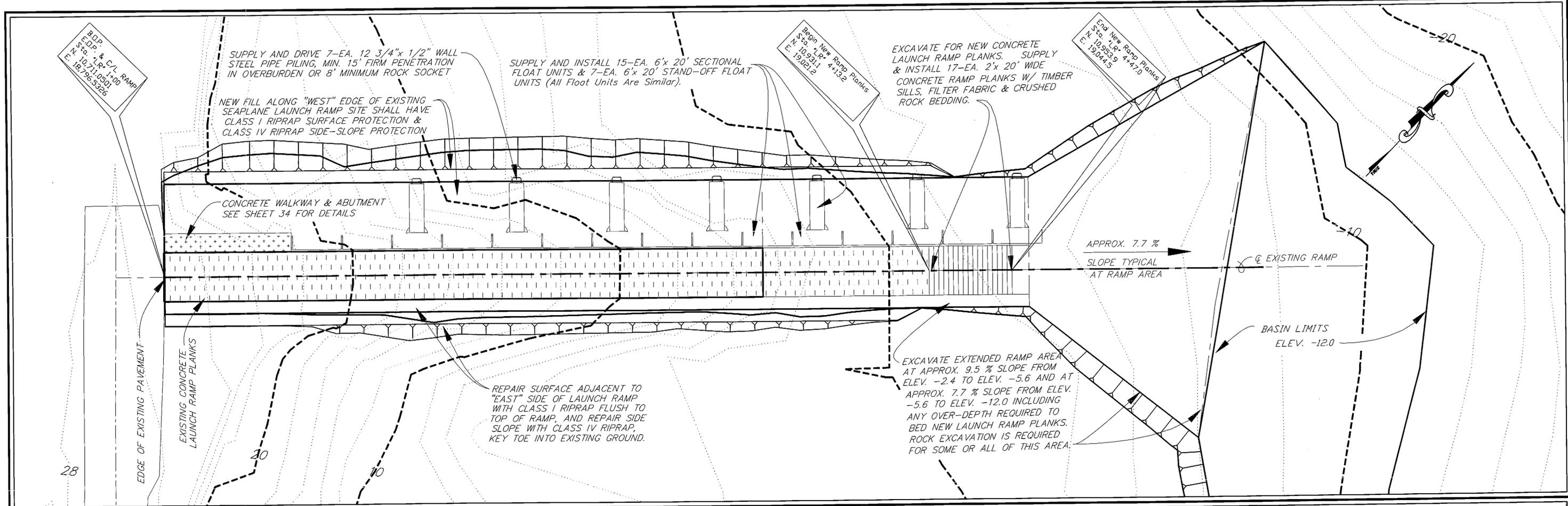
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| BAS          | 71952          |
| DRAWN BY:    | DATE:          |
| BAS          | MAY, 1996      |
| CHECKED BY:  | SHEET 29 OF 44 |
| JAL          | 7-19-96        |



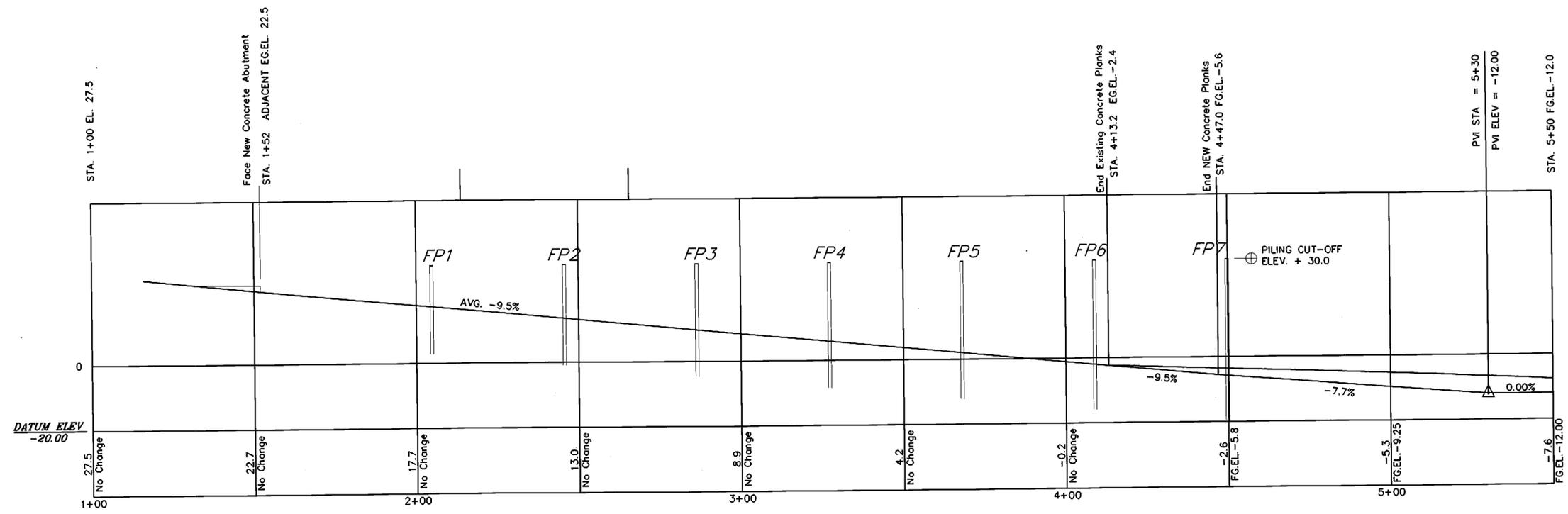


**PILE COLLAR LAYOUT**  
(See Sht. 29 for Restraint Pile Layout)





BEGIN PROJECT  
 STA. "LR" 1+00.0  
 N = 10,711.05  
 E = 18,796.53



NOTE: DO NOT SCALE FROM THESE PLANS-USE DIMENSIONS

| RECORD OF REVISIONS |                              |                        |
|---------------------|------------------------------|------------------------|
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| PLOT:               | P: \KTN\71952\DR\SHEET31.DWG |                        |
| BY:                 | DATE:                        | DESCRIPTION OF CHANGE: |
|                     |                              |                        |

STATE OF ALASKA  
 DEPARTMENT OF TRANSPORTATION  
 AND PUBLIC FACILITIES  
 SOUTHEAST REGION DESIGN & CONSTRUCTION

KETCHIKAN ALASKA  
 KETCHIKAN AIRPORT SEAPLANE FACILITY RECONSTRUCTION  
 PROJECT NO. 71952  
**PULOUT RAMP RECONSTRUCTION**

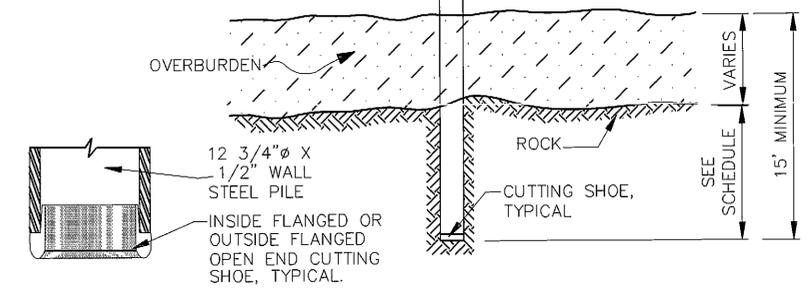
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| DESIGNED BY: | BN  | PROJECT NO. | 71952     |
| DRAWN BY:    | BN  | DATE:       | MAY, 1996 |
| CHECKED BY:  | JAL | SHEET       | 31 OF 44  |



**PILE SOCKET SCHEDULE**

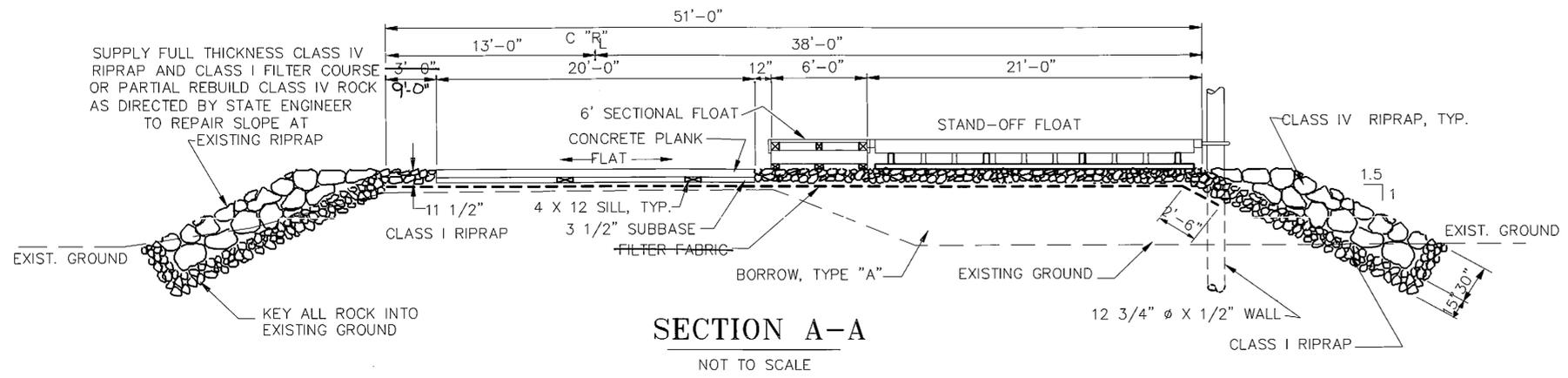
| OVERBURDEN DEPTH | LENGTH OF SOCKET |
|------------------|------------------|
| 0 - 5'           | 15'              |
| 6 - 10'          | 9'               |
| 11 - 15'         | 4'               |
| > 15'            | 0'               |

NOTE: For socket construction requirements, see specifications.

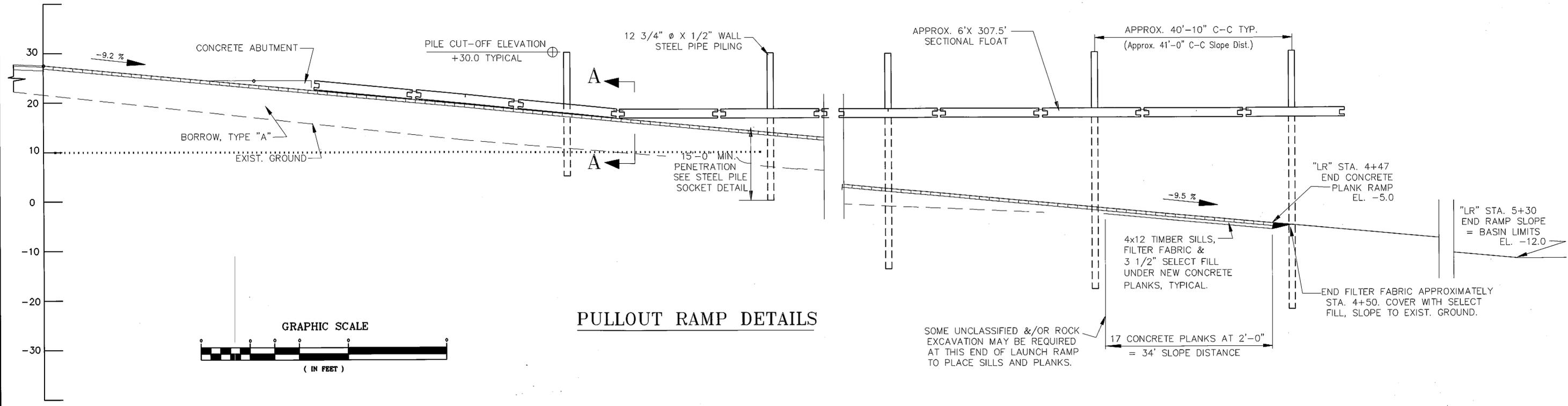


**SECTION OF PILE AND CUTTING SHOE**

**12 3/4" STEEL PILE SOCKET DETAIL & SCHEDULE**



**SECTION A-A**  
NOT TO SCALE



**PULLOUT RAMP DETAILS**

P:\KTN\71952\MF\SHEET32.DWG

| BY: | DATE: | DESCRIPTION OF CHANGE: |
|-----|-------|------------------------|
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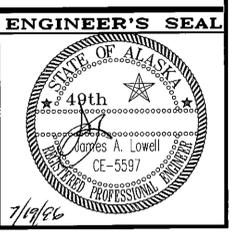
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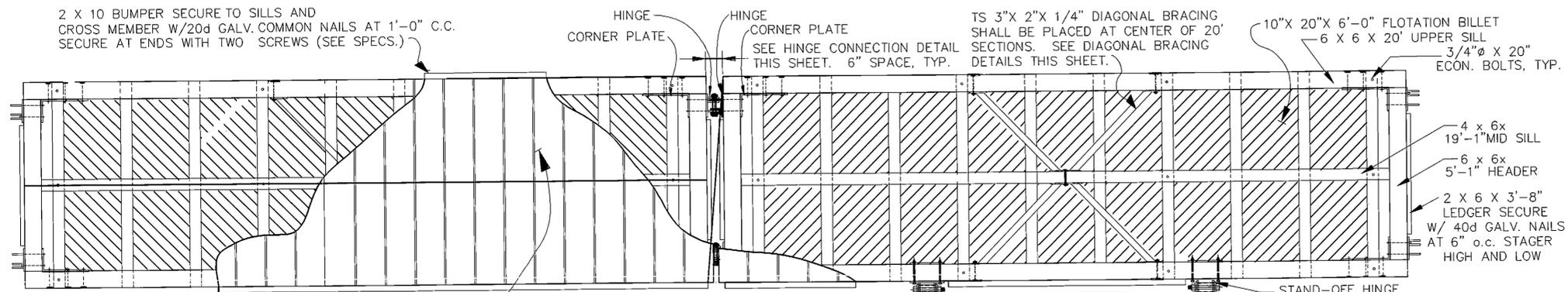
STATE OF ALASKA  
DEPARTMENT OF TRANSPORTATION  
AND PUBLIC FACILITIES  
SOUTHEAST REGION DESIGN & CONSTRUCTION

KETCHIKAN ALASKA  
KETCHIKAN AIRPORT SEAPLANE FACILITY RECONSTRUCTION  
PROJECT NO. 71952  
PULLOUT RAMP TYPICAL SECTION AND DETAILS

NOTED NOT SCALE FROM THESE PLANS-USE DIMENSIONS

|                    |                      |
|--------------------|----------------------|
| DESIGNED BY:<br>BN | PROJECT NO.<br>71952 |
| DRAWN BY:<br>BN    | DATE:<br>MAY, 1996   |
| CHECKED BY:<br>JAL | SHEET 32 OF 44       |

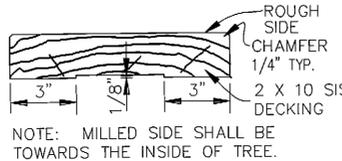




- NOTES:
- 1 ALL PILES SHALL BE INSTALLED IN RELATION TO THE COLLAR AT LOW TIDE AS SHOWN IN ORDER TO PERMIT MAXIMUM HORIZONTAL FLOAT TRAVEL DURING FLOOD STAGE OF TIDE.
  - 2 ALL LUMBER TO BE S4S EXCEPT DECKING AND 3 1/2" X 10" X 6'-0" CROSS MEMBERS. CROSS MEMBERS TO BE CUT FROM 4 X 12 S4S, TO 3 1/2" X 10" ACTUAL SIZE.
  - 3 CONTRACTOR MAY SUBMIT SHOP DRAWINGS THAT REPLACE EACH GROUP OF THREE 10" X 20" X 72" BILLETS WITH TWO 9 1/2" X 34" X 72" BILLETS BETWEEN 3 1/2" X 9 1/2" X 6'-0" CROSS MEMBERS (std. 4x10 timbers). ALL FLOATS MUST BE THE SAME DEPTH.

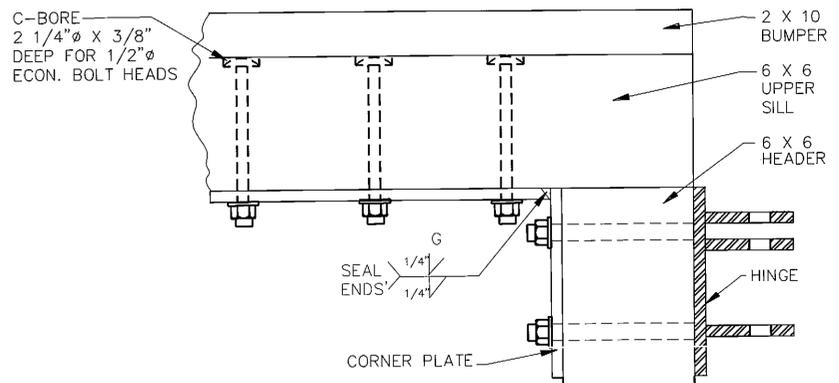
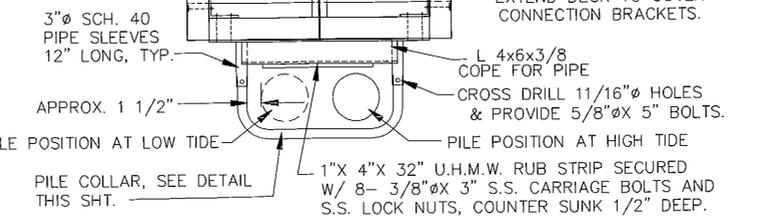
2 X 10 DECKING SPACED 1/2" APART SECURED W/ 2-20.D. GALV. COMMON NAILS AT EACH SILL. SEE DECKING DETAIL THIS SHEET.

NOTE: ALL BOLT HOLES FACING DECKING SHALL BE COUNTERBORED 3/8" DEEP.

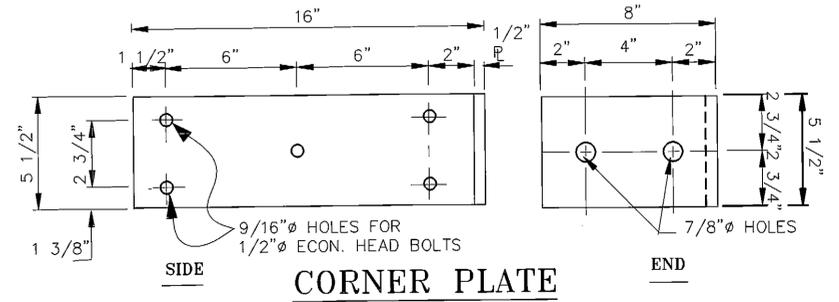


MILLED DECKING

PLAN

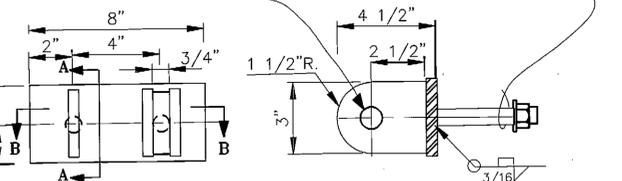


HINGE CONNECTION DETAIL

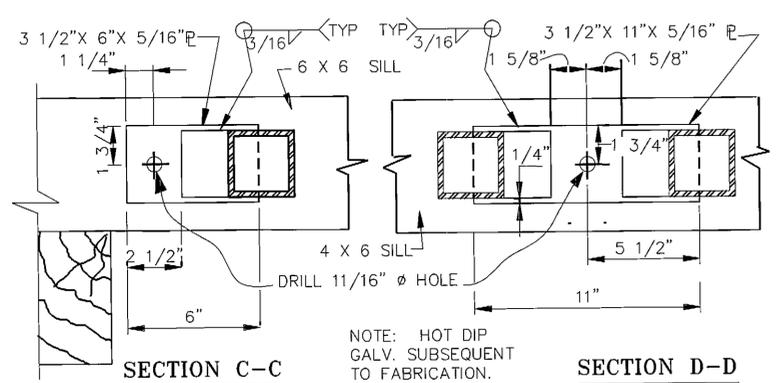
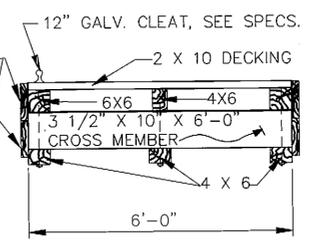
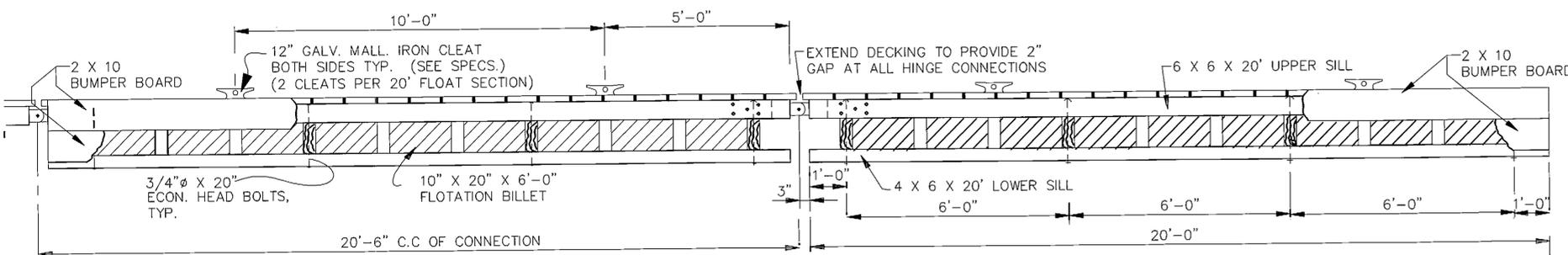


DRILL 1 1/16"Ø HOLE FOR 1"Ø X 8" HEX BOLT, NUT & 1/4" SS COTTER PIN, TYP.

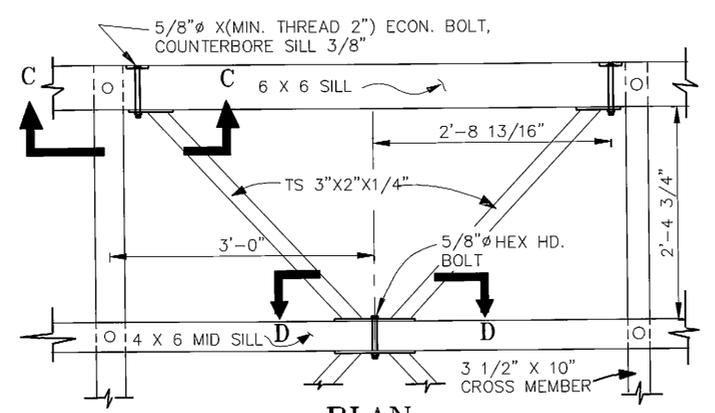
3/4"Ø X 7 1/2" (A307) STUD, THREAD 2" MIN. & NUT, TYP.



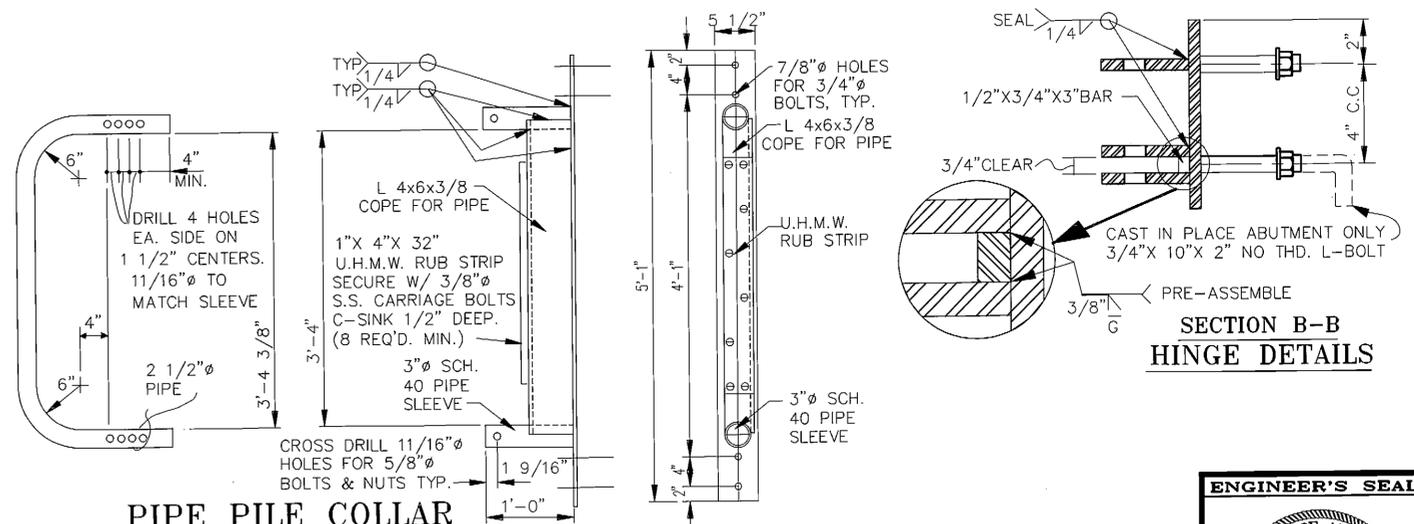
NOTE: ALL STEEL 1/2" P, HOT DIP GALV. SUBSEQUENT TO FABRICATION



DIAGONAL BRACING DETAILS



PLAN



PIPE PILE COLLAR

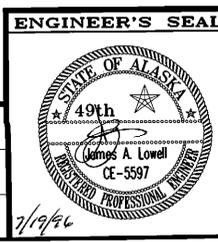
NOTE: DO NOT SCALE FROM THESE PLANS-USE DIMENSIONS

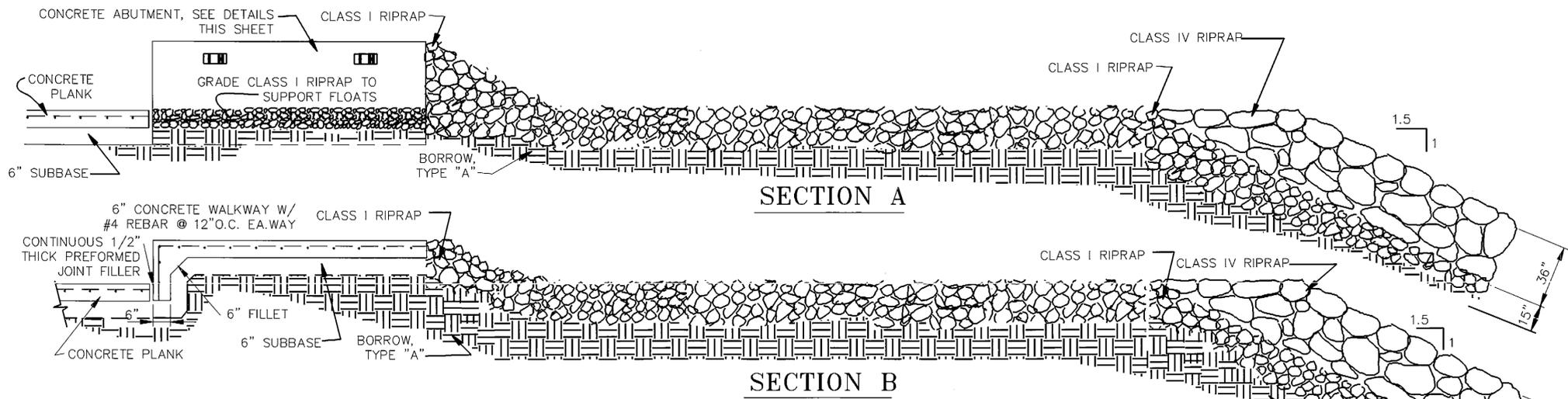
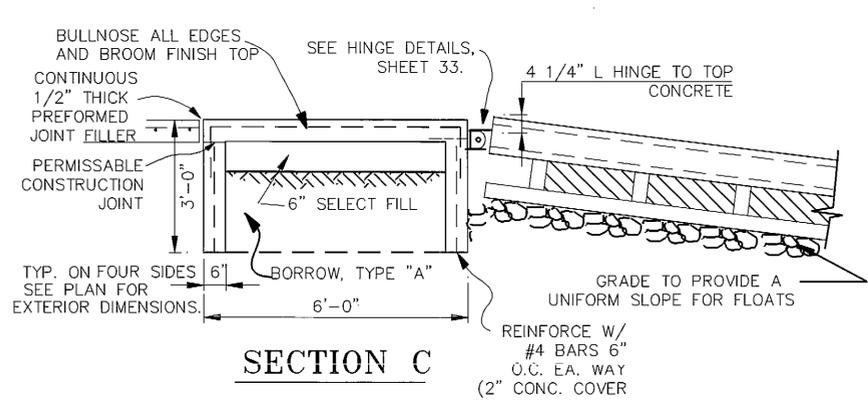
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|---------------------|-------|------------------------|
| BY:                 | DATE: | DESCRIPTION OF CHANGE: |
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STATE OF ALASKA  
DEPARTMENT OF TRANSPORTATION  
AND PUBLIC FACILITIES  
SOUTHEAST REGION DESIGN & CONSTRUCTION

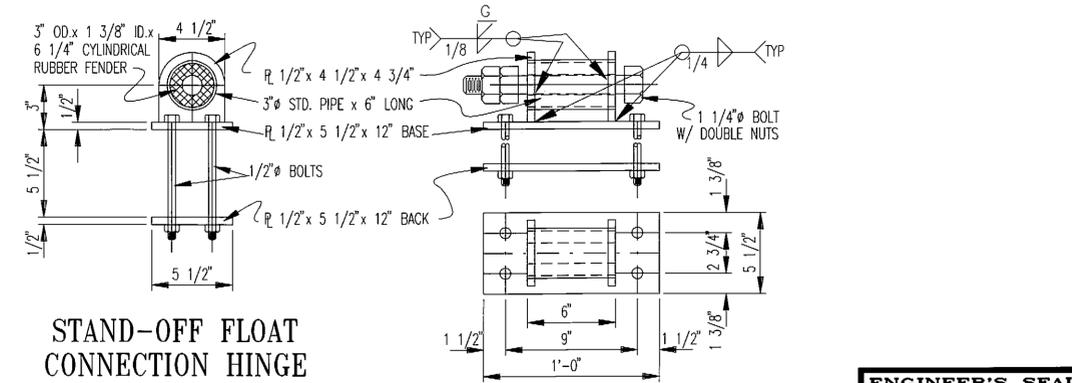
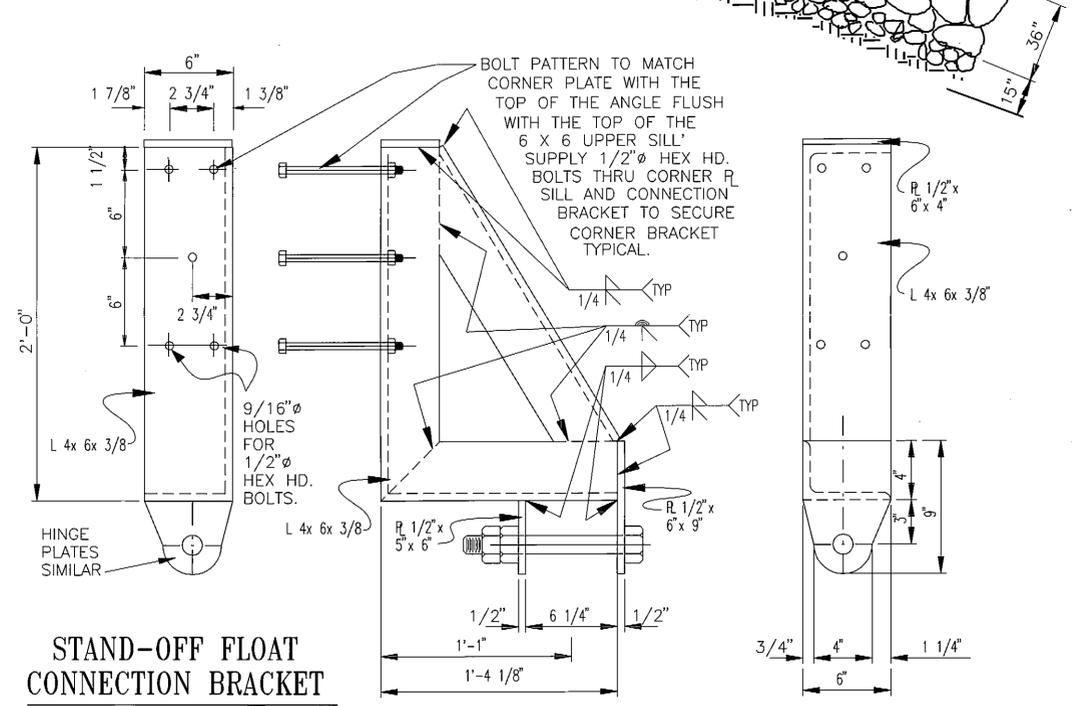
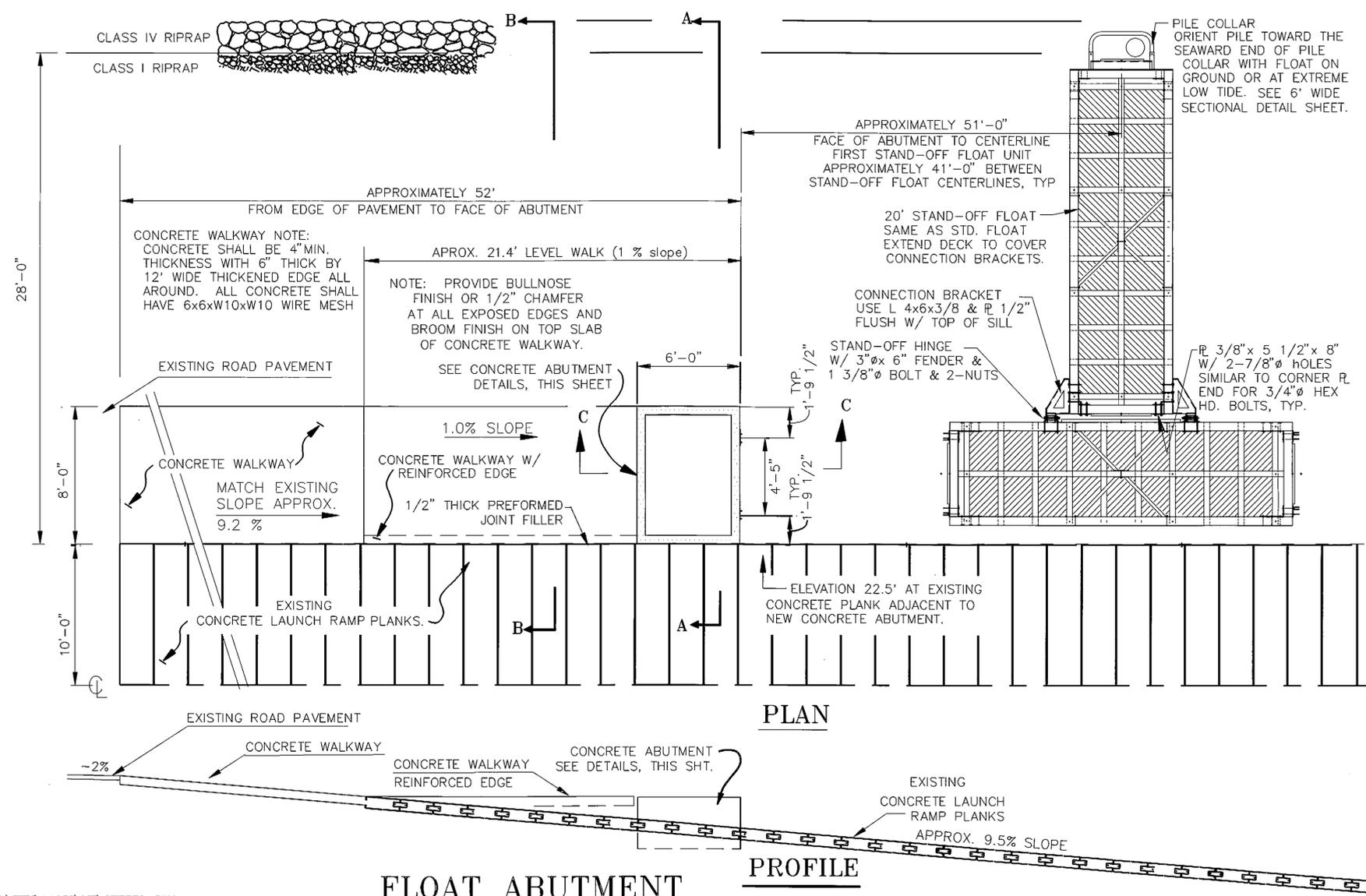
KETCHIKAN  
KETCHIKAN AIRPORT SEAPLANE FACILITY RECONSTRUCTION  
PROJECT NO. 71952  
PULLOUT RAMP, 6' WIDE SECTIONAL FLOAT

|        |                    |                   |
|--------|--------------------|-------------------|
| ALASKA | DESIGNED BY: BN    | PROJECT NO. 71952 |
|        | DRAWN BY: BN       | DATE: APR, 1996   |
|        | CHECKED BY: J.A.L. | SHEET 33 OF 44    |





**CAST IN PLACE CONCRETE ABUTMENT DETAILS**



**FLOAT ABUTMENT**

**PROFILE**

P:\KTN\71952\MF\SHEET34.DWG

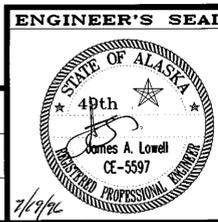
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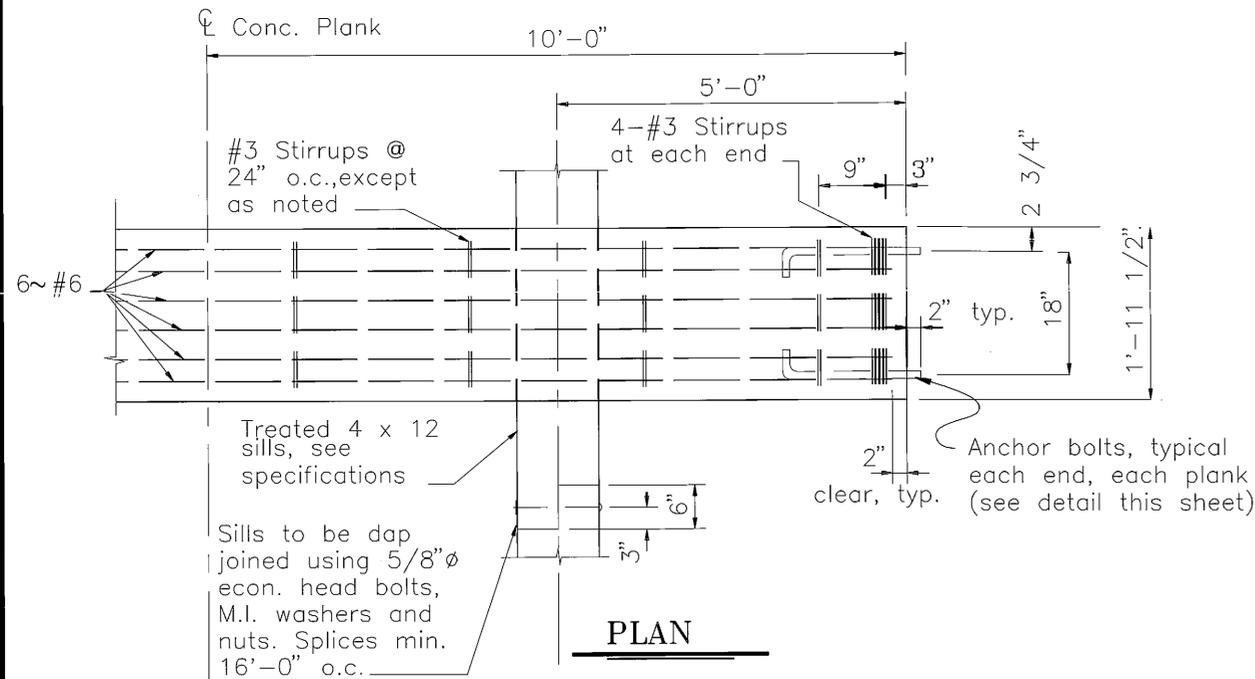
**RECORD OF REVISIONS**

STATE OF ALASKA  
DEPARTMENT OF TRANSPORTATION  
AND PUBLIC FACILITIES  
SOUTHEAST REGION DESIGN & CONSTRUCTION

KETCHIKAN ALASKA  
KETCHIKAN AIRPORT SEAPLANE FACILITY RECONSTRUCTION  
PROJECT NO. 71952  
PULLOUT RAMP & SECTIONAL FLOAT DETAILS

|                    |                      |
|--------------------|----------------------|
| DESIGNED BY:<br>BN | PROJECT NO.<br>71952 |
| DRAWN BY:<br>BN    | DATE:<br>MAY, 1996   |
| CHECKED BY:<br>JAL | SHEET 34 OF 44       |





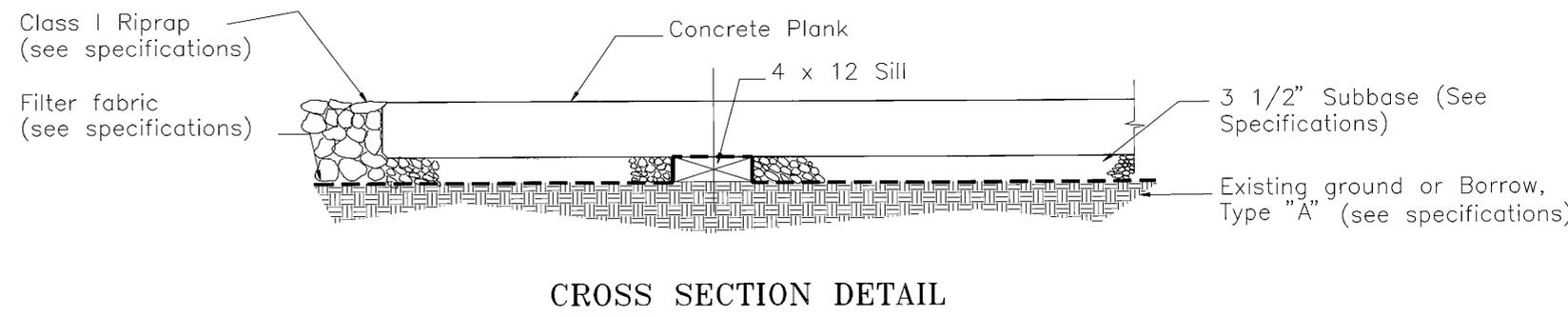
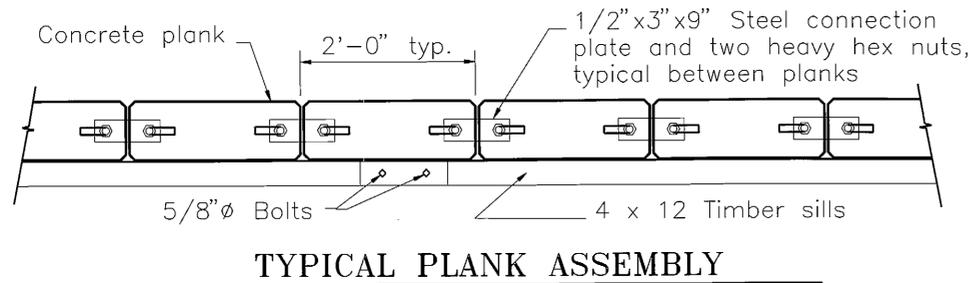
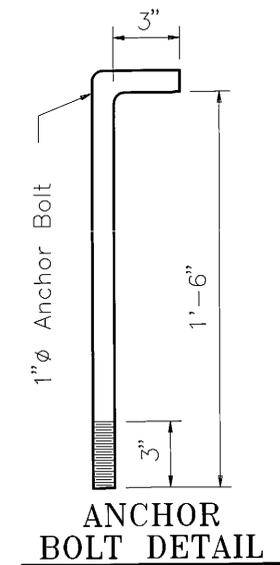
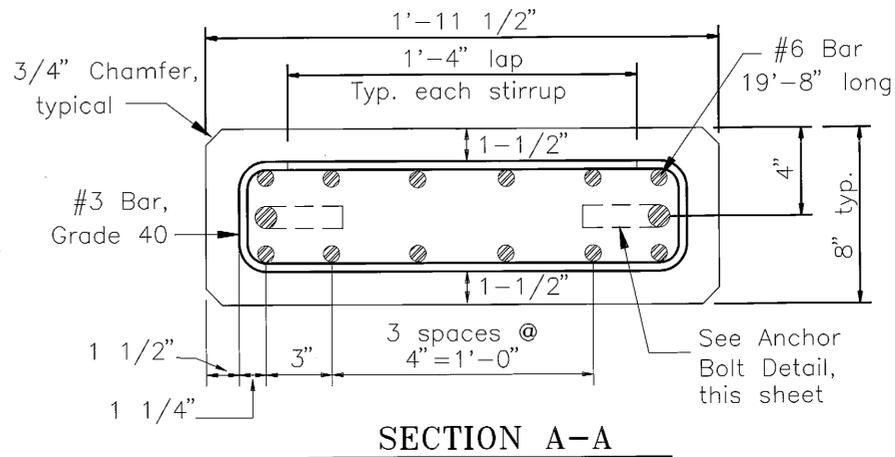
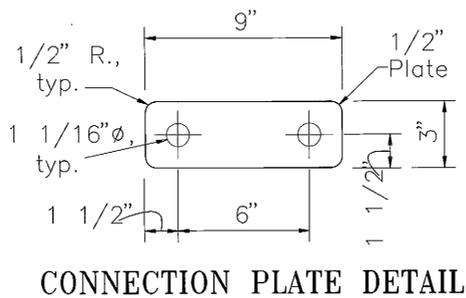
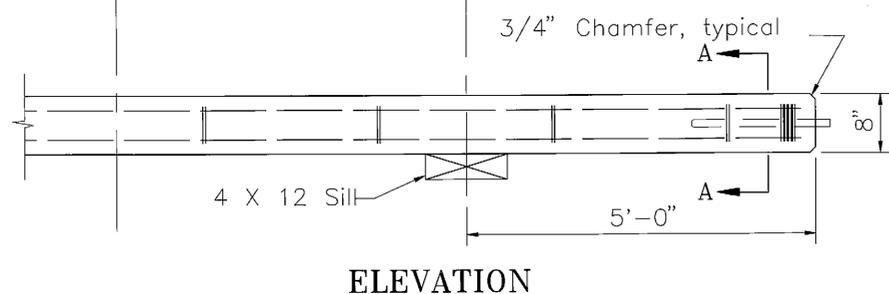
**NOTES :**

Filter Fabric may be placed under or over the sills (as shown) at the Contractor's option. Placing the Filter Fabric over the sills with splices at the sills allows for adjustment of the sills prior to placing concrete planks.

Concrete shall be CLASS AA.  
Reinforcing steel fy = 60,000 psi. typical, except Stirrups, fy = 40,000 psi.

Contractor shall drill the lowest salvaged concrete ramp plank for 1"Ø x 8" threaded studs (embedded 5"), secured with chemical adhesive, and located so that connection plates can span from existing planks to new concrete ramp planks and maintain alignment, secure plate with threaded nuts.

All reinforcing steel shall be hot-dip galvanized.  
All bolts, nuts & plates shall be hot-dip galvanized. Bolts & nuts shall have loose fit to allow installation without chasing threads.



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NOTE: DO NOT SCALE FROM THESE PLANS-USE DIMENSIONS

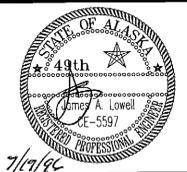
| BY: | DATE: | DESCRIPTION OF CHANGE: |
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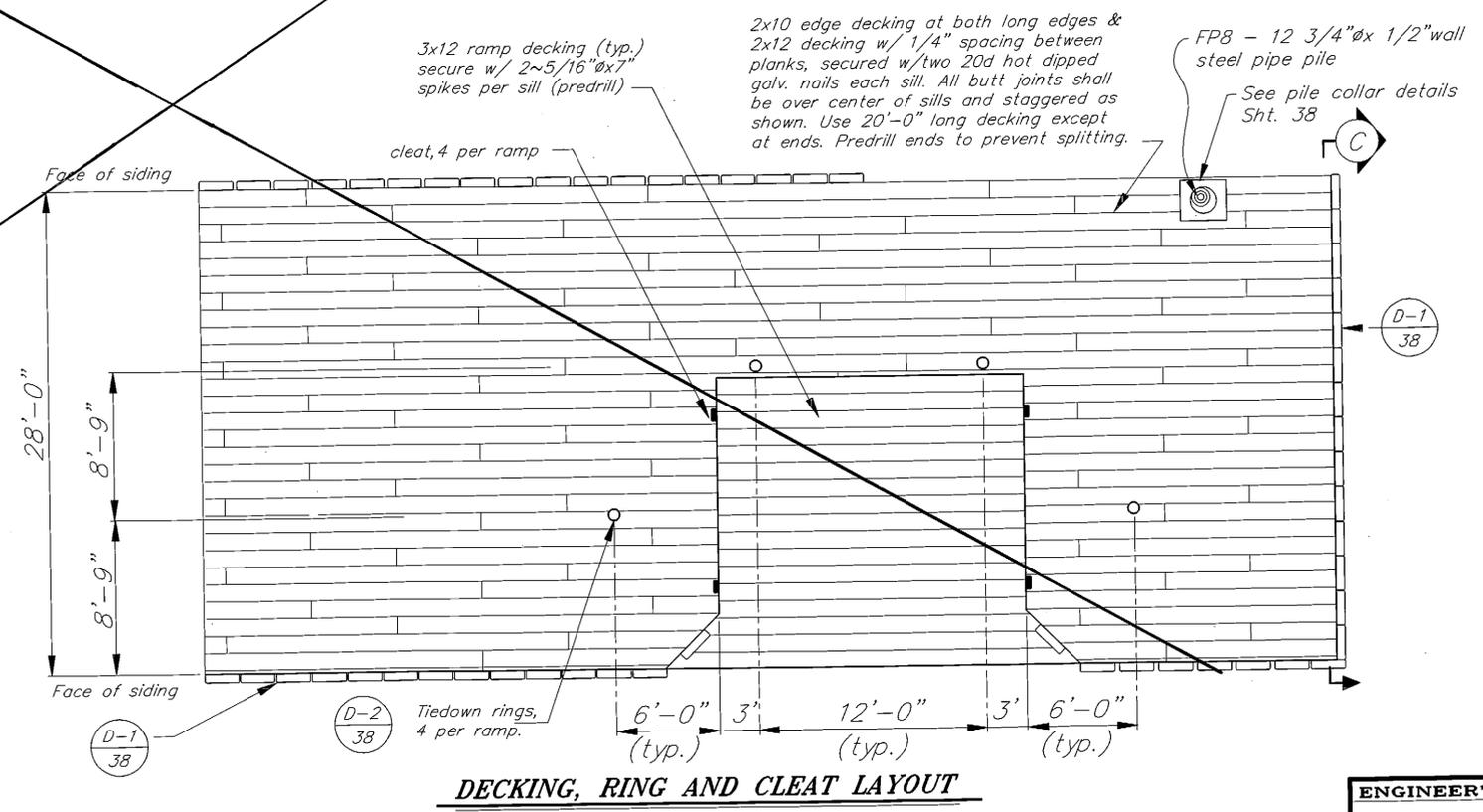
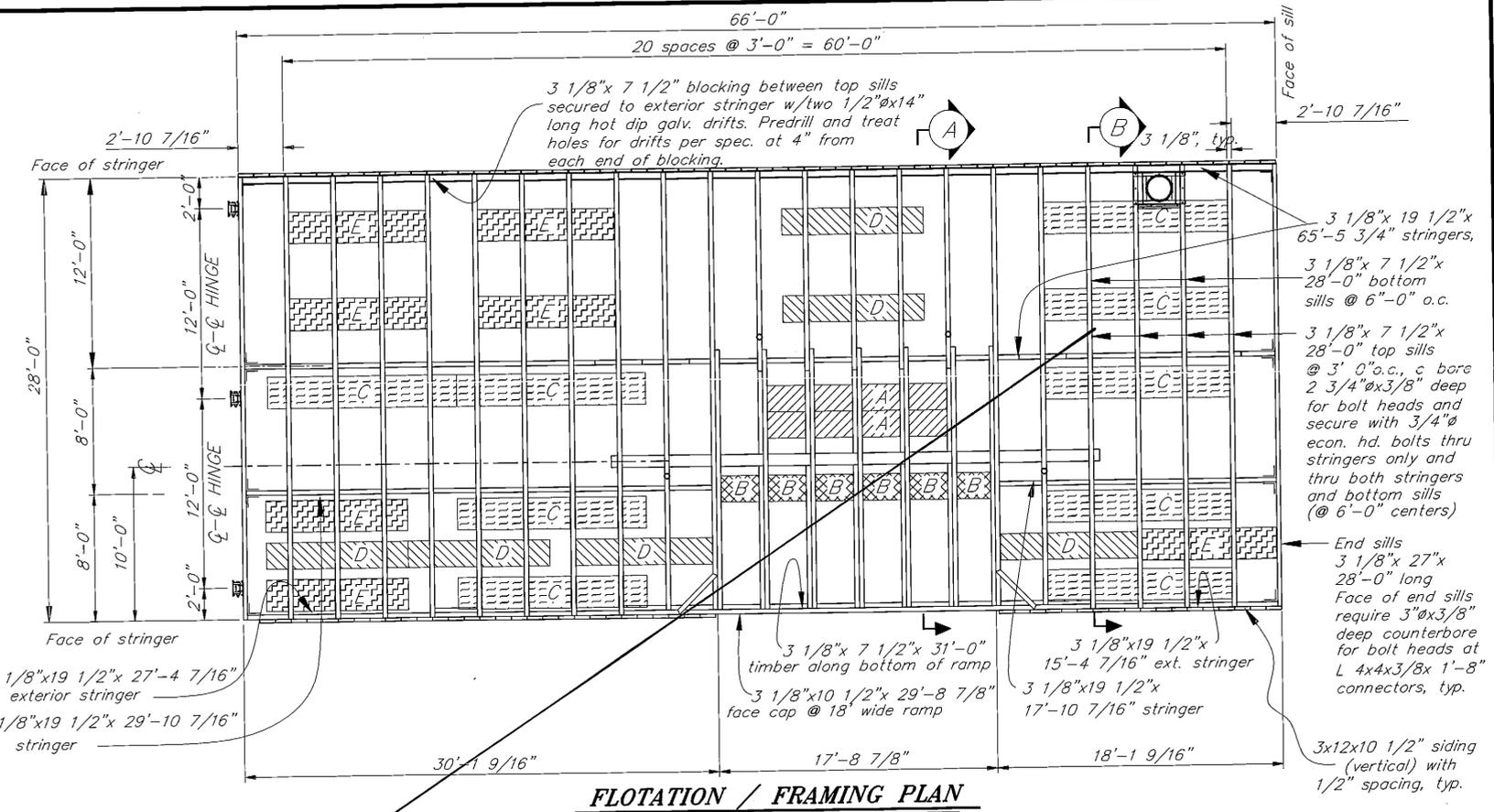
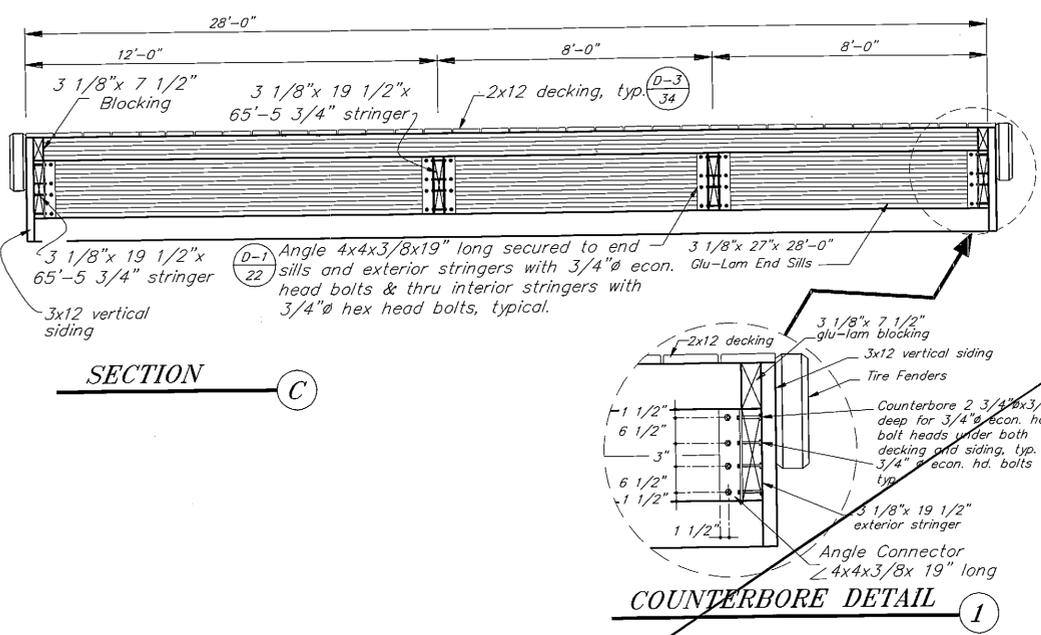
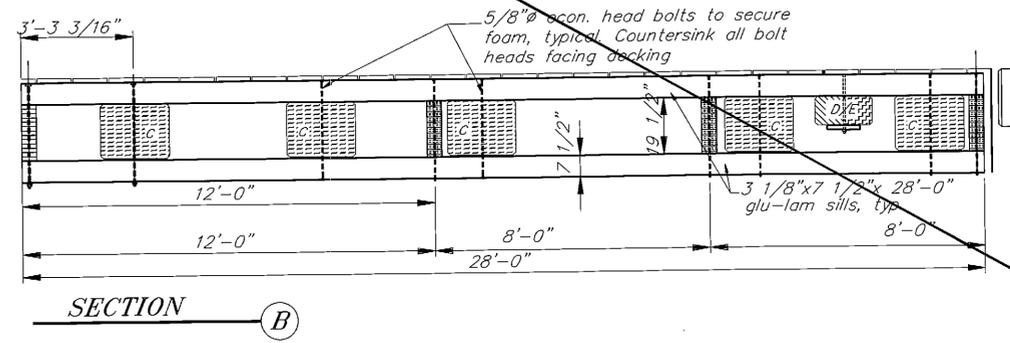
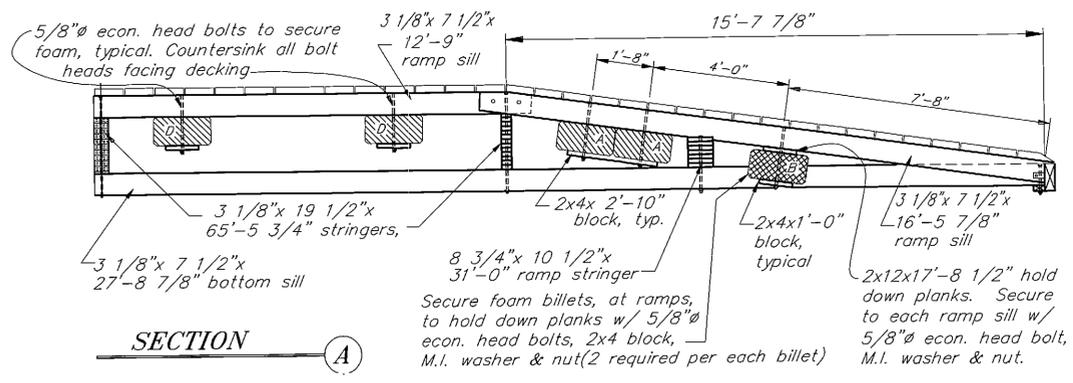
RECORD OF REVISIONS

STATE OF ALASKA  
DEPARTMENT OF TRANSPORTATION  
AND PUBLIC FACILITIES  
SOUTHEAST REGION DESIGN & CONSTRUCTION

KETCHIKAN  
ALASKA  
KETCHIKAN AIRPORT SEAPLANE FACILITY RECONSTRUCTION  
PROJECT NO. 71952  
PULLOUT RAMP, CONCRETE PLANK DETAILS

|              |             |             |           |
|--------------|-------------|-------------|-----------|
| DESIGNED BY: | J.D. Beedle | PROJECT NO. | 71952     |
| DRAWN BY:    | WN / B.W.B. | DATE:       | APR, 1996 |
| CHECKED BY:  | JAL         | SHEET       | 35 OF 44  |





**FOAM FLOTATION SCHEDULE**

|  |  |
|--|--|
|  | 20" x 12'-0" x 10" deep (2 required)     |
|  | 20" x 2'-6" x 10" deep (6 required)      |
|  | 24" x 12'-0" x 19 1/2" deep (9 required) |
|  | 20" x 9'-0" x 10" deep (6 required)      |
|  | 24" x 9'-0" x 19 1/2" deep (7 required)  |

- NOTE:**
- All structural timber material shall be pressure treated glu-lam members (see specifications for grade & treatment).
  - 3x12 vertical siding, 2x12 hold down plank and 2x4 blocks at foam bolt locations shall be pressure treated S4S. See spec.
  - 2x12 decking and 3x12 ramp decking to be milled S1S2E, install rough side up. See spec. for grade and treatment. See milled decking detail on sheet 38.

PATH: P:\KTN\71952\MF\SHEET36.DWG

| BY: | DATE: | DESCRIPTION OF CHANGE: |
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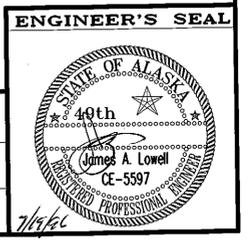
**RECORD OF REVISIONS**

STATE OF ALASKA  
 DEPARTMENT OF TRANSPORTATION  
 AND PUBLIC FACILITIES  
 SOUTHEAST REGION DESIGN & CONSTRUCTION

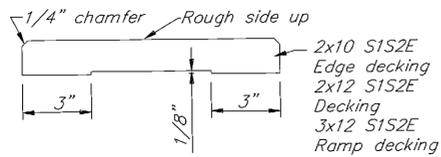
KETCHIKAN  
 ALASKA  
 KETCHIKAN AIRPORT SEAPLANE FACILITY RECONSTRUCTION  
 PROJECT NO. 71952  
 SEAPLANE RAMP FLOAT, ( Alternate B )

NOTE: DO NOT SCALE FROM THESE PLANS-USE DIMENSIONS

|              |        |                |           |
|--------------|--------|----------------|-----------|
| DESIGNED BY: | BAS/BN | PROJECT NO.    | 71952     |
| DRAWN BY:    | BN     | DATE:          | MAY, 1996 |
| CHECKED BY:  | JAL    | SHEET 36 OF 44 | 7/6/96    |

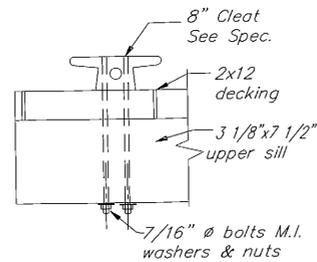




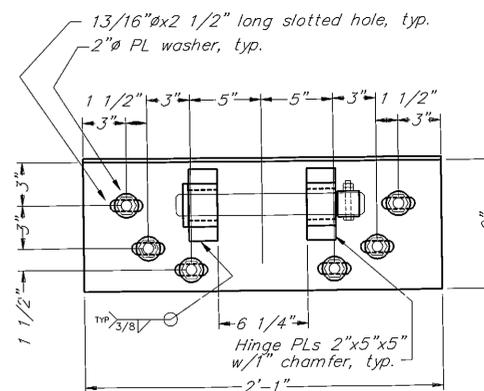


Milled side of plank shall be toward center of tree

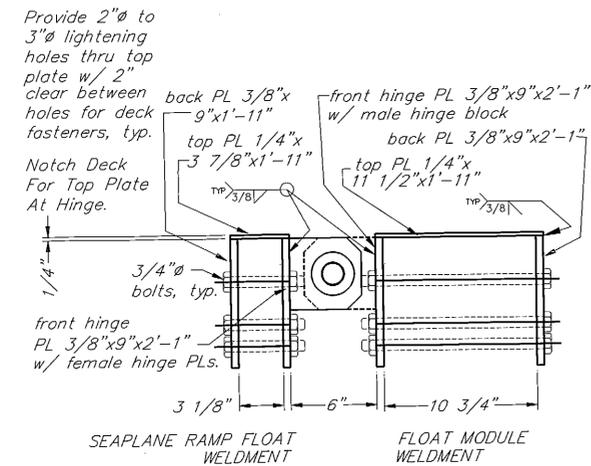
**MILLED DECKING DETAIL** 3



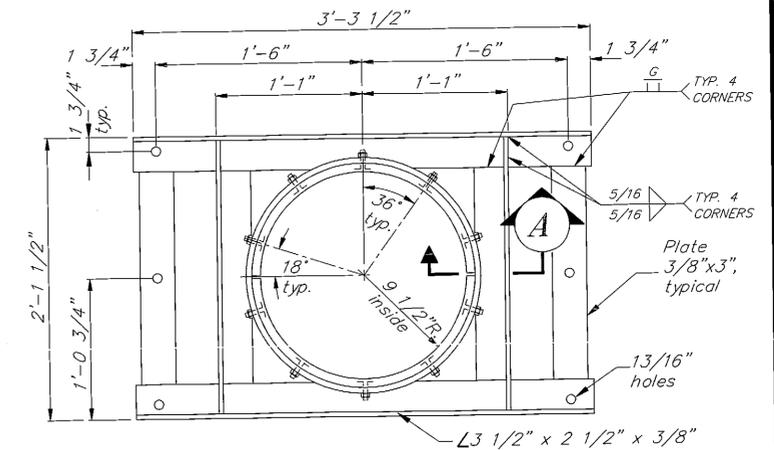
**CLEAT DETAIL** 4



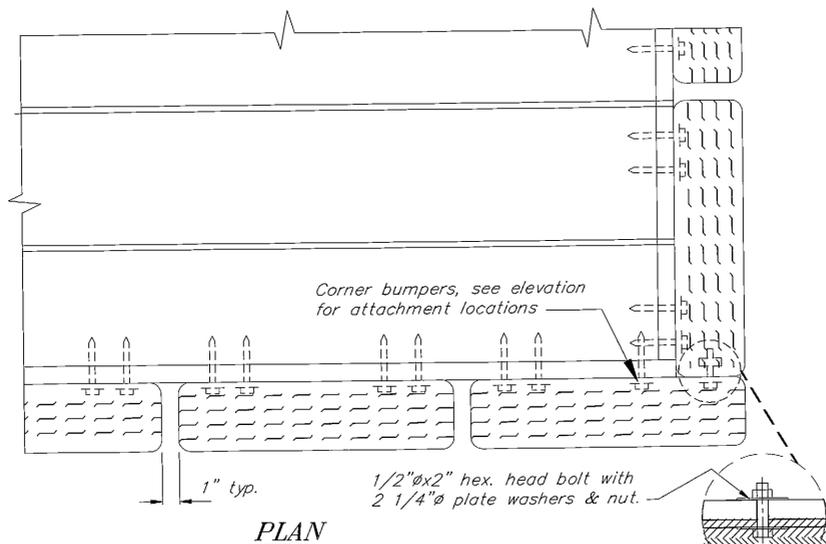
**FLOAT HINGE PL**



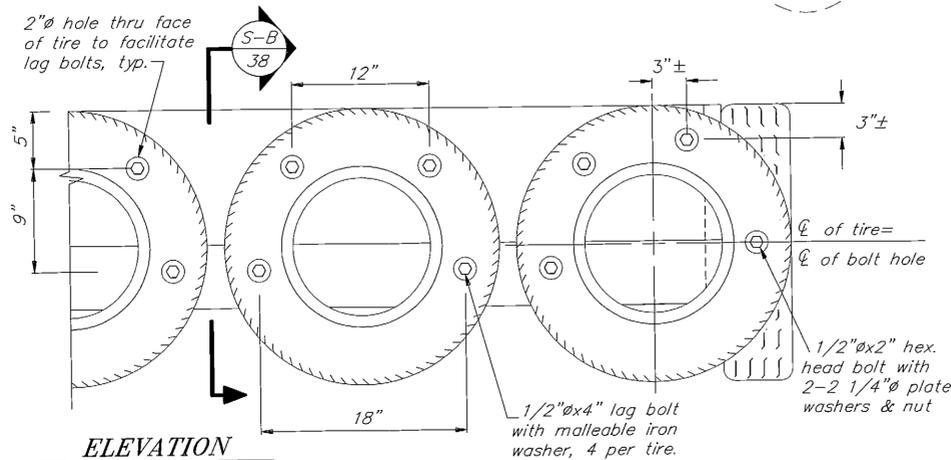
**HINGE SECTION**



**PILE COLLAR DETAIL** 5  
FOR 28'x66' RAMP SEAPLANE FLOAT

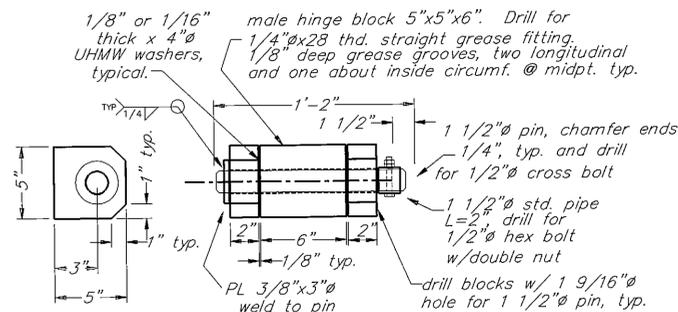


**PLAN**

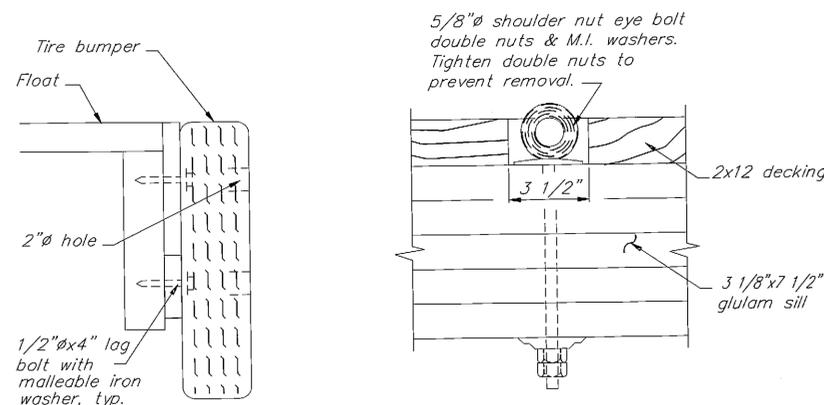


**ELEVATION**

**TIRE BUMPER DETAILS** 1

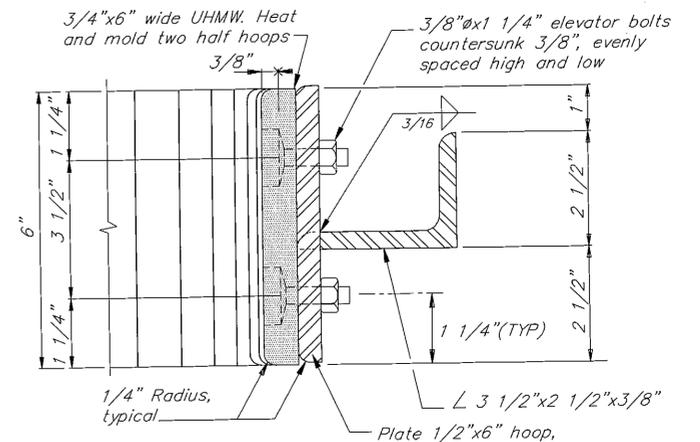


**FLOAT HINGE DETAIL**



**TIE-DOWN DETAIL** 2

NOTE: Install 1/2 inch by 10 L.F. soft nylon strand rope at all eye bolts.



**SECTION** A

**NOTES :**

- Tires shall be 13" series with a minimum 1/8" deep summer or all season tread. No heavy lugs or studs.
- All of the tires shall be of the same width with a maximum allowable variation of 1/2".
- Paint tires white per specification.

**NOTE:**

28'x66' Ramp float is shown in these bumper details, but tire bumpers are similar on 70'x340' seaplane float.

NOTE: DO NOT SCALE FROM THESE PLANS-USE DIMENSIONS

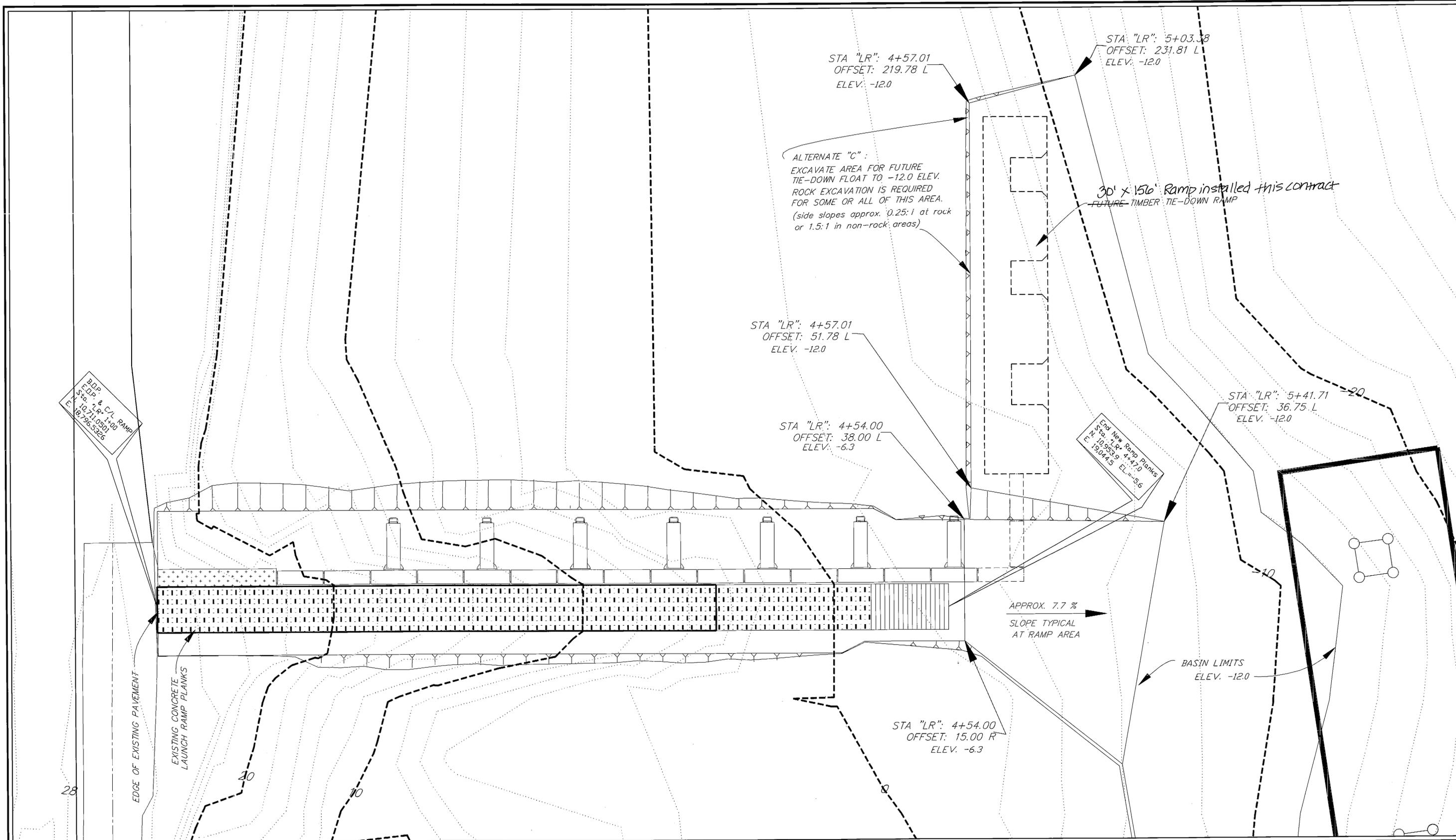
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STATE OF ALASKA  
DEPARTMENT OF TRANSPORTATION  
AND PUBLIC FACILITIES  
SOUTHEAST REGION DESIGN & CONSTRUCTION

KETCHIKAN  
ALTERNATE "B"  
KETCHIKAN AIRPORT SEAPLANE FACILITY RECONSTRUCTION  
A.I.P. No. 3-02-0144-0996 / 71952  
SEAPLANE RAMP FLOAT, MISC. DETAILS

|                           |                      |
|---------------------------|----------------------|
| DESIGNED BY:<br>D.D.S./BN | PROJECT NO.<br>71952 |
| DRAWN BY:<br>B.W.B./BN    | DATE:<br>MAY, 1996   |
| CHECKED BY:<br>J.A.L.     | SHEET 38 OF 44       |





NOTE: DO NOT SCALE FROM THESE PLANS-USE DIMENSIONS

| RECORD OF REVISIONS |      |                       |
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| NO.                 | DATE | DESCRIPTION OF CHANGE |
|                     |      |                       |
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STATE OF ALASKA  
DEPARTMENT OF TRANSPORTATION  
AND PUBLIC FACILITIES  
SOUTHEAST REGION DESIGN & CONSTRUCTION

KETCHIKAN ALASKA  
ALTERNATE "C"  
KETCHIKAN AIRPORT SEAPLANE FACILITY RECONSTRUCTION  
A.I.P. No. 3-02-0144-0996 / 71952  
FUTURE TIEDOWN FLOAT DREDGING

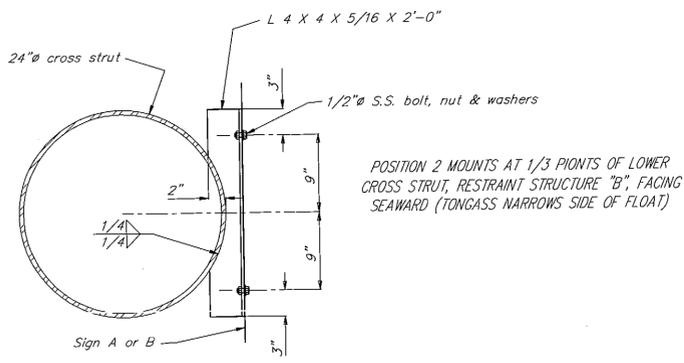
DESIGNED BY: BN  
DRAWN BY: BN  
CHECKED BY: JAL

PROJECT NO. 71952  
DATE: MAY, 1996  
SHEET 39 OF 44





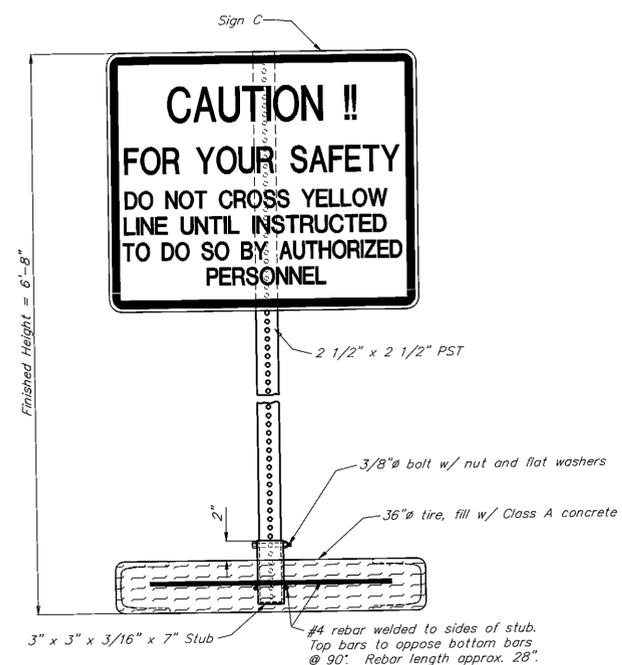
**SIGN "A"**  
1 REQUIRED (At Restraint Structure "B")



**RESTRAINT STRUCTURE SIGN MOUNT**



**SIGN "C"**  
2 REQUIRED (1 At Head Of Bridge & 1 On Float)



**DETAILS FOR FLOAT MOUNTED SIGN C**

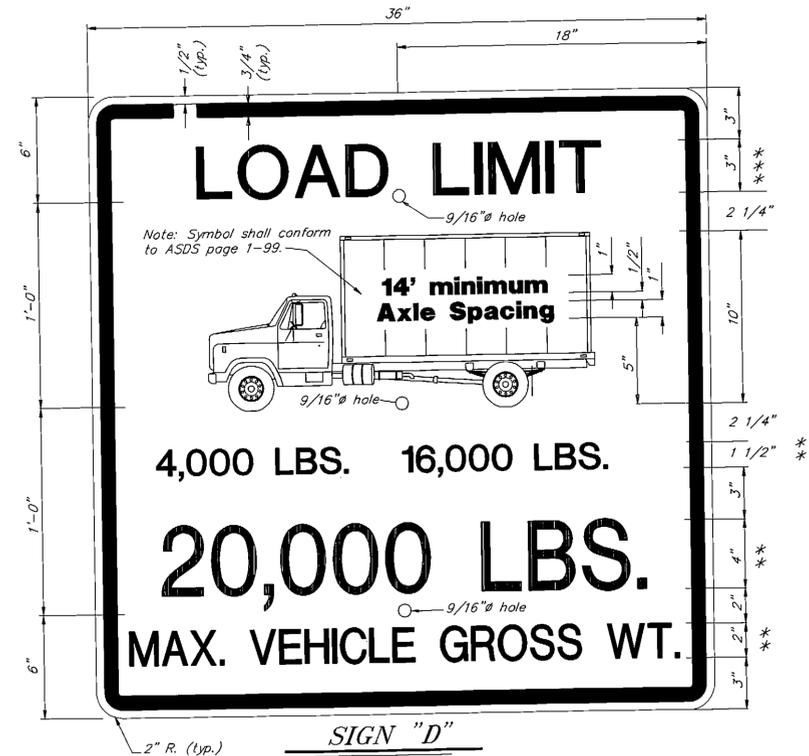


**SIGN "B"**  
1 REQUIRED (At Restraint Structure "B")

**SIGN NOTES :**

4x4 L supports for signs A & B shall be located on the lower seaward facing strut on the intermediate float restraint structure "B". The sign support angles shall be positioned at the third points of the strut and attached as shown.  
Signs shall have white background with black legend, except as noted. Signs shall conform to Alaska Sign Design Specification. Lettering shall be as shown on the plans.

- \* "B" SERIES LETTERING
- \*\* "C" SERIES LETTERING
- \*\*\* "D" SERIES LETTERING



**SIGN "D"**  
1 REQUIRED (At Head Of Bridge)

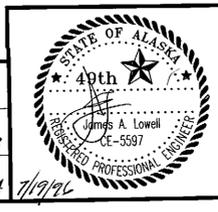
NOTE: DO NOT SCALE FROM THESE PLANS—USE DIMENSIONS

| RECORD OF REVISIONS |      |                       |
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| NO.                 | DATE | DESCRIPTION OF CHANGE |
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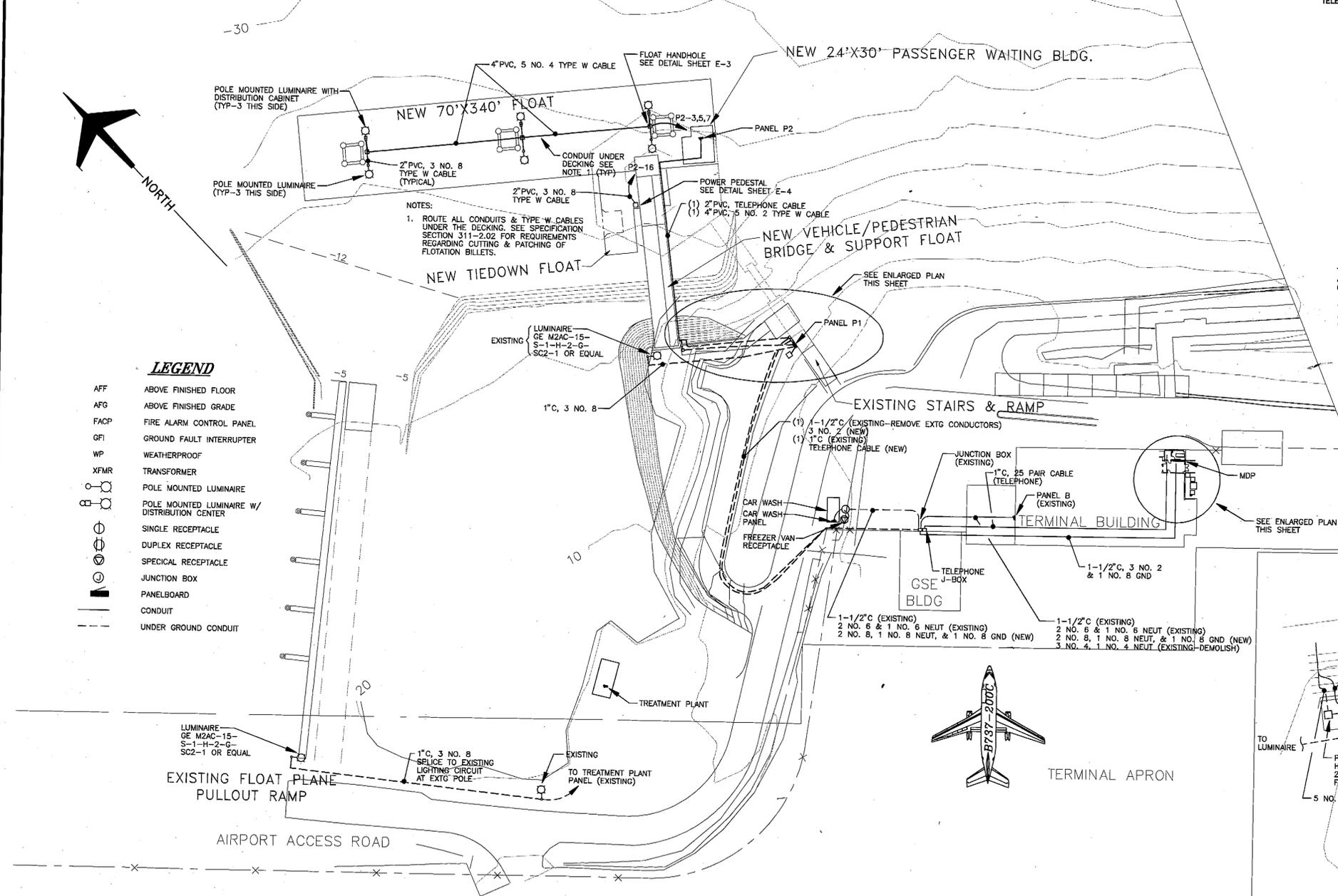
STATE OF ALASKA  
DEPARTMENT OF TRANSPORTATION  
AND PUBLIC FACILITIES  
SOUTHEAST REGION DESIGN & CONSTRUCTION

KETCHIKAN  
KETCHIKAN AIRPORT SEAPLANE FACILITY RECONSTRUCTION  
PROJECT NO. A.I.P. 3-02-0144-0996/71952  
**SIGN DETAILS**

|                     |                   |
|---------------------|-------------------|
| DESIGNED BY: JAL    | PROJECT NO. 71952 |
| DRAWN BY: JAL       | DATE: MAY 1996    |
| CHECKED BY: TRAFFIC | SHEET 40 OF 44    |

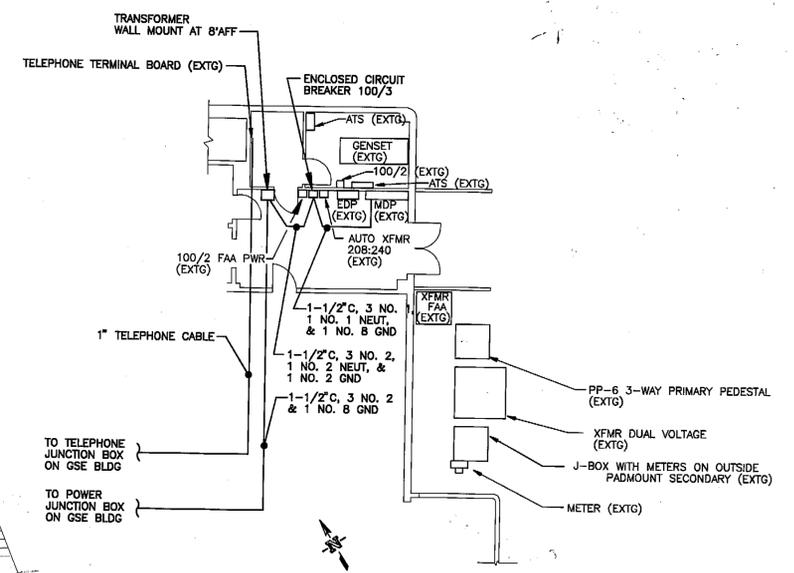
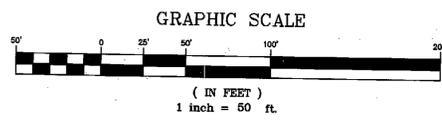


# TONGASS NARROWS

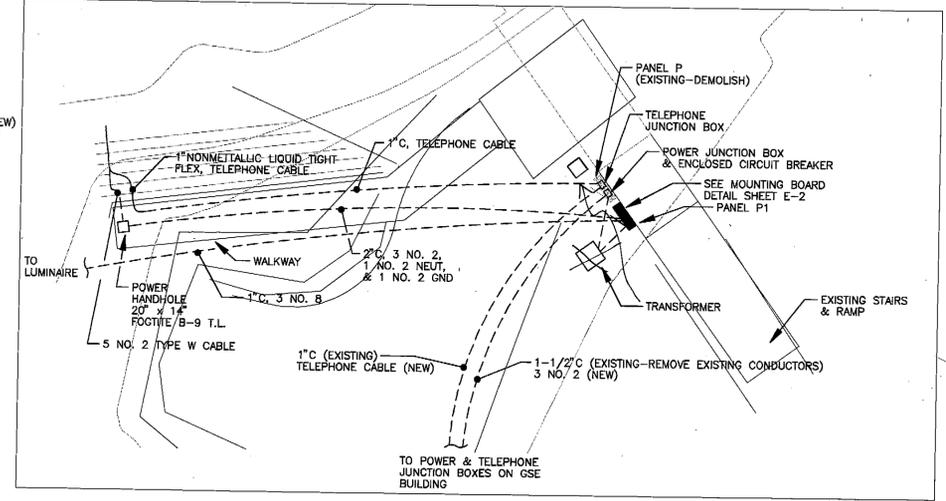


### LEGEND

- AFF ABOVE FINISHED FLOOR
- AFG ABOVE FINISHED GRADE
- FACP FIRE ALARM CONTROL PANEL
- GFI GROUND FAULT INTERRUPTER
- WP WEATHERPROOF
- XFMR TRANSFORMER
- POLE MOUNTED LUMINAIRE
- POLE MOUNTED LUMINAIRE W/ DISTRIBUTION CENTER
- SINGLE RECEPTACLE
- DUPLEX RECEPTACLE
- SPECIAL RECEPTACLE
- JUNCTION BOX
- PANELBOARD
- CONDUIT
- - - UNDER GROUND CONDUIT



**ENLARGED PLAN : TERMINAL BUILDING**  
SCALE 1/8" = 1'0"



**ENLARGED PLAN : TOP OF BRIDGE**  
NO SCALE

| RECORD OF REVISIONS |       |                        |
|---------------------|-------|------------------------|
| BY:                 | DATE: | DESCRIPTION OF CHANGE: |
|                     |       |                        |
|                     |       |                        |

STATE OF ALASKA  
DEPARTMENT OF TRANSPORTATION  
AND PUBLIC FACILITIES  
SOUTHEAST REGION DESIGN & CONSTRUCTION

KETCHIKAN ALASKA  
KETCHIKAN AIRPORT SEAPLANE FACILITY RECONSTRUCTION  
A.I.P. 3-02-0144-0996/71952  
**SITE PLAN - POWER & LIGHTING**

|                     |                      |
|---------------------|----------------------|
| DESIGNED BY:<br>GSS | PROJECT NO.<br>71925 |
| DRAWN BY:<br>JLC    | DATE:<br>7/96        |
| CHECKED BY:<br>TSM  | SHEET 41 OF 44       |

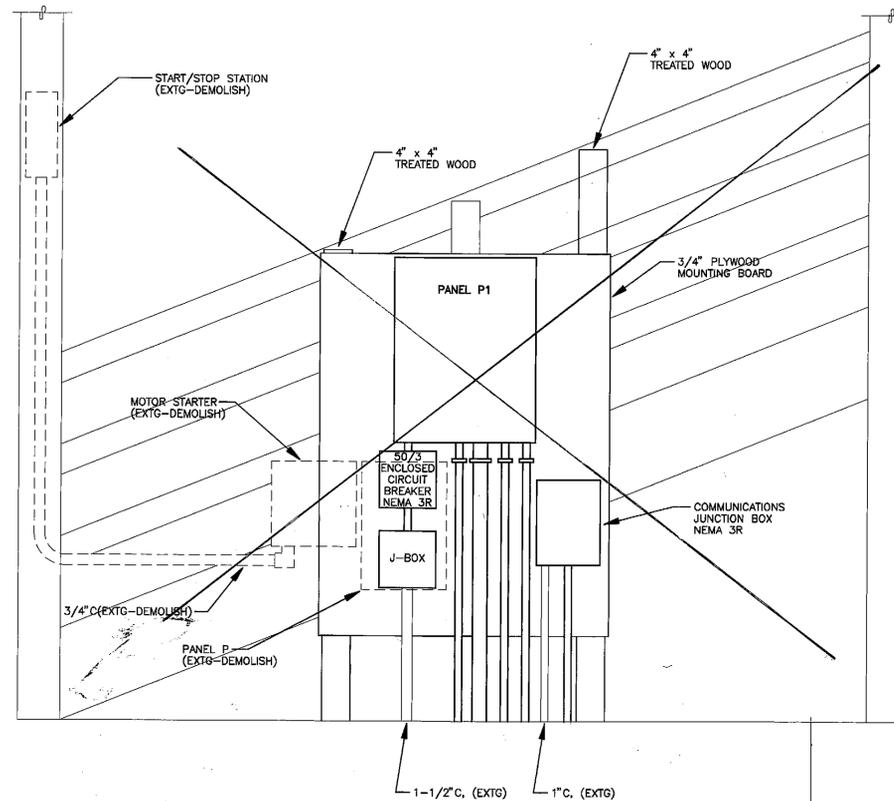
E-1

HAIGHT & McLAUGHLIN, INC.  
CONSULTING ENGINEERS  
418 Harris Street, Juneau, Alaska 99801 (907) 586-9788

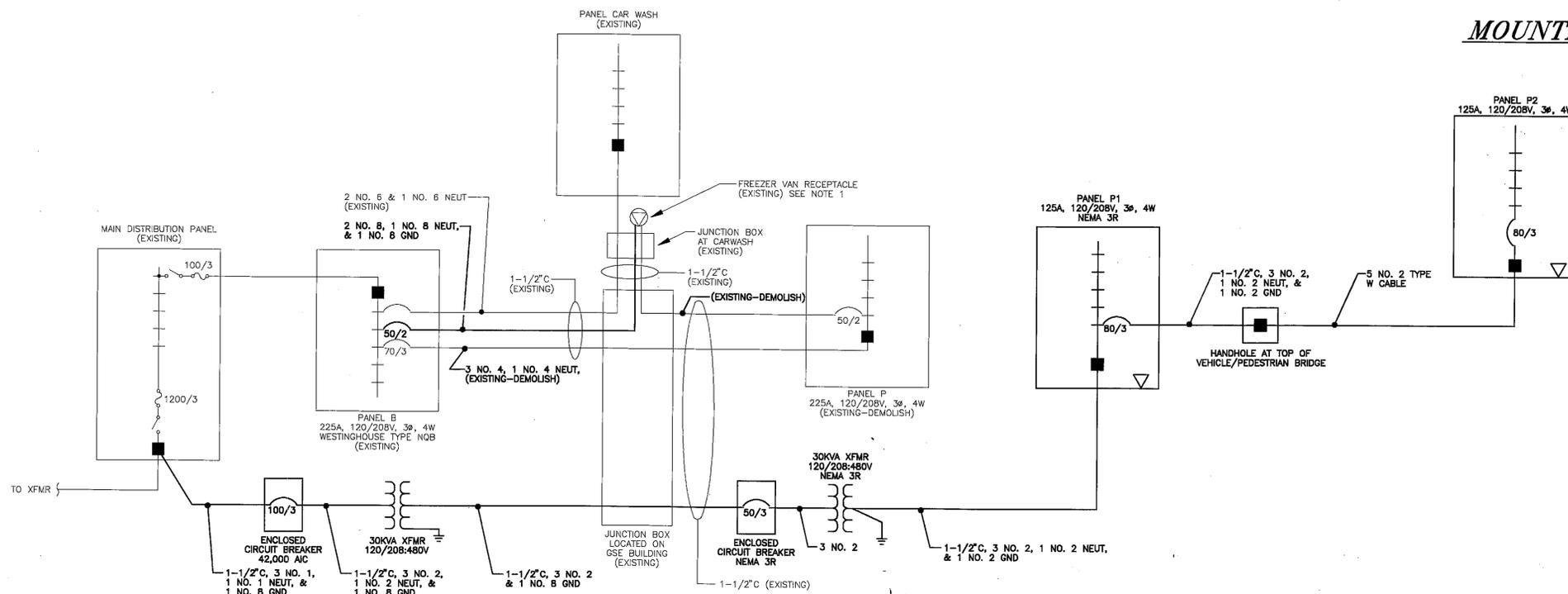
| PANEL P1 (NEMA 3R)                        |             |                         |     |     |     |                         |             |                   |       |
|---|-------------|-------------------------|-----|-----|-----|-------------------------|-------------|-------------------|-------|
| C<br>K<br>T<br>NO                         | DESCRIPTION | BREAKER<br>AMP/<br>POLE | KVA |     |     | BREAKER<br>AMP/<br>POLE | DESCRIPTION | C<br>K<br>T<br>NO | MOUNT |
|   |             |                         | CT  | AØ  | BØ  |                         |             |                   |       |
| 1   | PANEL P2    | 80/3                    | 9.1 | 9.4 |     | 0.3                     | 15/1        | WALKWAY LIGHTING  | 2     |
| 3   | ---         | ---                     | 8.1 |     | 8.1 | 0.0                     | 30/1        | SPARE             | 4     |
| 5   | ---         | ---                     | 8.1 |     | 8.1 | 0.0                     | 20/1        | SPARE             | 6     |
| 7   | SPARE       | 20/1                    | 0.0 | 0.0 |     | 0.0                     | ---         | SPARE             | 8     |
| 9   | SPACE       | ---                     | 0.0 |     | 0.0 | ---                     | ---         | SPACE             | 10    |
| 11  | SPACE       | ---                     | 0.0 |     | 0.0 | ---                     | ---         | SPACE             | 12    |
| TOTAL CONNECTED LOAD = 25.7 KVA / 78 AMPS |             |                         | 9.4 | 8.1 | 8.1 |                         |             |                   |       |

| PANEL P2                                  |                   |                         |     |     |     |                         |             |                     |       |
|---|-------------------|-------------------------|-----|-----|-----|-------------------------|-------------|---------------------|-------|
| C<br>K<br>T<br>NO                         | DESCRIPTION       | BREAKER<br>AMP/<br>POLE | KVA |     |     | BREAKER<br>AMP/<br>POLE | DESCRIPTION | C<br>K<br>T<br>NO   | MOUNT |
|   |                   |                         | CT  | AØ  | BØ  |                         |             |                     |       |
| 1   | SHELTER LIGHTING  | 20/1                    | 1.0 | 2.7 |     | 1.7                     | 20/3        | UNIT HEATER-SHELTER | 2     |
| 3   | FLOAT LTG & POWER | 50/3                    | 4.7 |     | 6.4 | 1.7                     | ---         | ---                 | 4     |
| 5   | ---               | ---                     | 4.7 |     | 6.4 | 1.7                     | ---         | ---                 | 6     |
| 7   | ---               | ---                     | 4.7 | 6.4 |     | 1.7                     | 20/3        | UNIT HEATER SHELTER | 8     |
| 9   | SPARE             | 20/1                    | 0.0 |     | 1.7 | 1.7                     | ---         | ---                 | 10    |
| 11  | SPARE             | 20/1                    | 0.0 |     | 1.7 | 1.7                     | ---         | ---                 | 12    |
| 13  | SPACE             | ---                     | 0.0 | 0.4 |     | 0.4                     | 20/1        | SHELTER RECEPTACLES | 14    |
| 15  | SPACE             | ---                     | 0.0 |     | 0.2 | 0.2                     | 20/1        | TIEDOWN RECEPTACLE  | 16    |
| 17  | SPACE             | ---                     | 0.0 |     |     | ---                     | ---         | SPACE               | 18    |
| 19  | SPACE             | ---                     | 0.0 |     |     | ---                     | ---         | SPACE               | 20    |
| TOTAL CONNECTED LOAD = 25.9 KVA / 79 AMPS |                   |                         | 9.5 | 8.3 | 8.1 |                         |             |                     |       |

\* INDICATES GROUND FAULT CIRCUIT INTERRUPTER

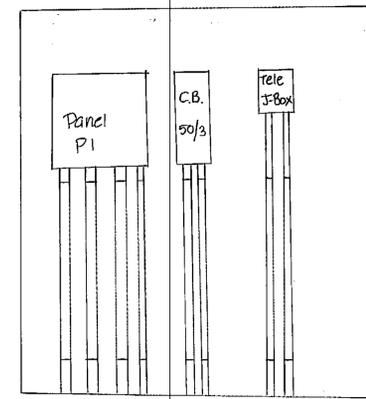


**MOUNTING BOARD DETAIL**  
SCALE 1" = 1'-0"



**SINGLE LINE DIAGRAM**

NOTES:  
1. PROVIDE A NEW BRANCH CIRCUIT FROM PANEL B FOR THE EXISTING FREEZER VAN RECEPTACLE LOCATED AT THE CAR WASH, AS SHOWN.



Mounting Board

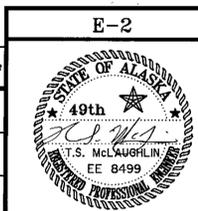
| RECORD OF REVISIONS |       |                        |
|---------------------|-------|------------------------|
| PATH:               | DATE: | DESCRIPTION OF CHANGE: |
|                     |       |                        |
|                     |       |                        |

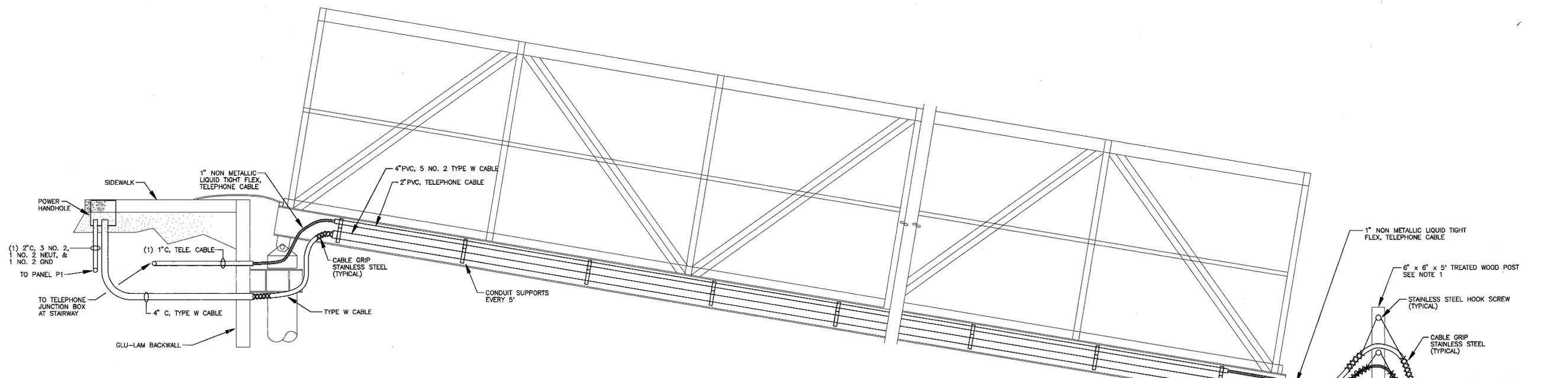
STATE OF ALASKA  
DEPARTMENT OF TRANSPORTATION  
AND PUBLIC FACILITIES  
SOUTHEAST REGION DESIGN & CONSTRUCTION

KETCHIKAN  
KETCHIKAN AIRPORT SEAPLANE FACILITY RECONSTRUCTION  
A.I.P. 3-02-0144-0996/71952  
ALASKA  
SINGLE LINE DIAGRAM & PANEL SCHEDULES

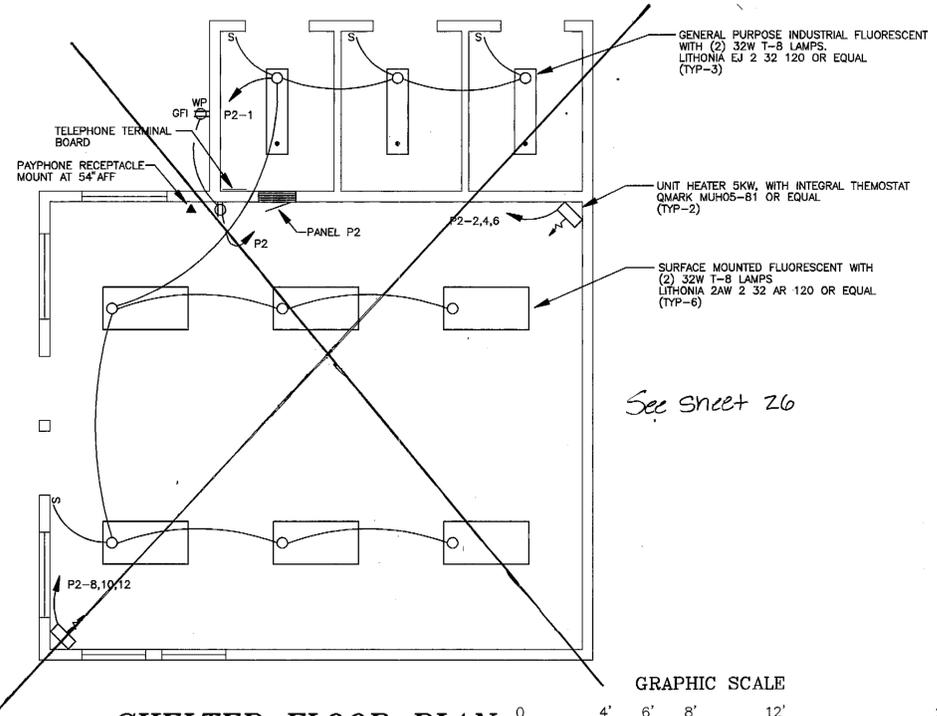
DESIGNED BY: GSS  
DRAWN BY: JLC  
CHECKED BY: TSM  
PROJECT NO. 71925  
DATE: 7/96  
SHEET 42 OF 44

HAIGHT & McLAUGHLIN, INC.  
CONSULTING ENGINEERS  
418 Harris Street, Juneau, Alaska 99801 (907) 586-9788

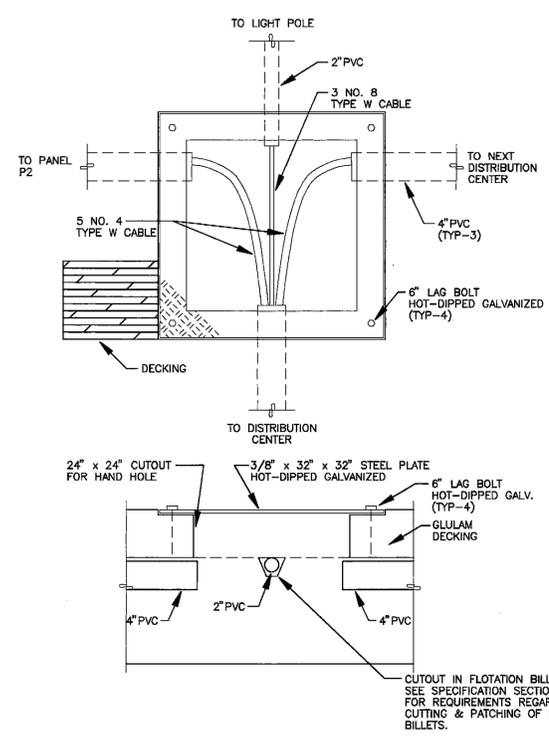




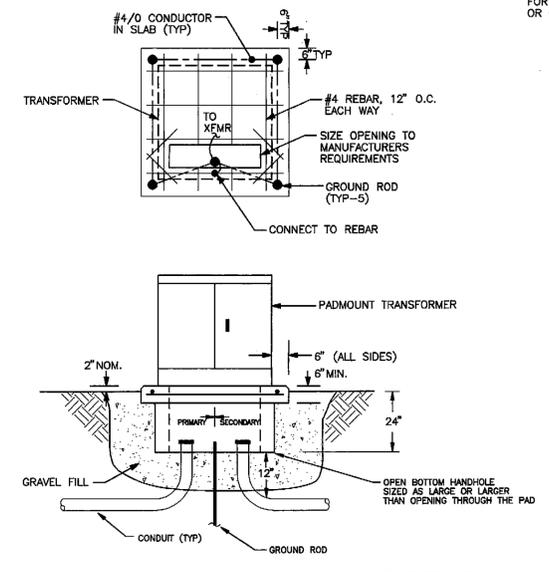
**VEHICLE/PEDESTRIAN BRIDGE ELEVATION**  
 NO SCALE



**SHELTER FLOOR PLAN**  
 GRAPHIC SCALE  
 ( IN FEET )  
 1/4 inch = 1 ft.



**FLOAT HANDHOLE DETAIL**



**TRANSFORMER PAD DETAIL**

NOTES:  
 1. LOCATE POST AND CUT-OUTS IN DECKING TO ALLOW FOR MOVEMENT OF BRIDGE WITHOUT STRAIN ON CABLE OR CONDUITS.

| RECORD OF REVISIONS |       |                        |
|---------------------|-------|------------------------|
| PATH:               | DATE: | DESCRIPTION OF CHANGE: |
|                     |       |                        |
|                     |       |                        |
|                     |       |                        |

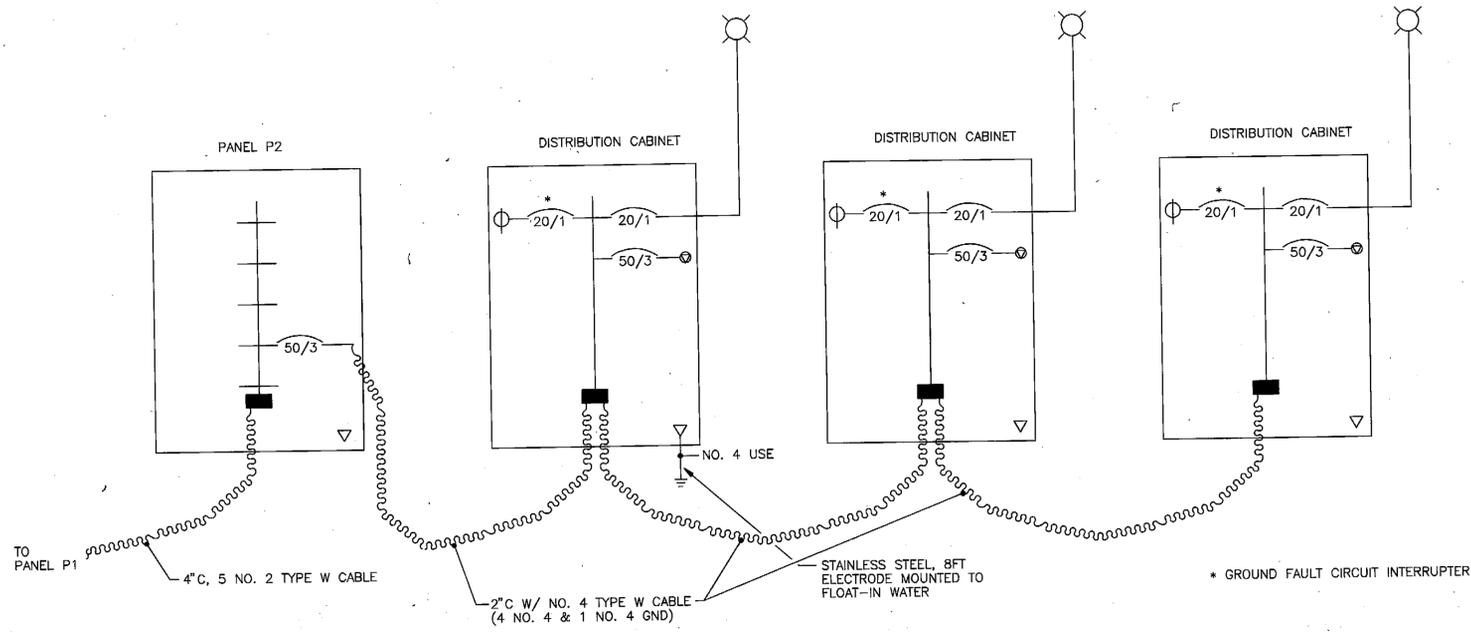
STATE OF ALASKA  
 DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES  
 SOUTHEAST REGION DESIGN & CONSTRUCTION

KETCHIKAN ALASKA  
 KETCHIKAN AIRPORT SEAPLANE FACILITY RECONSTRUCTION  
 A.I.P. 3-02-0144-0996/71952  
 BRIDGE & SHELTER - POWER & LIGHTING

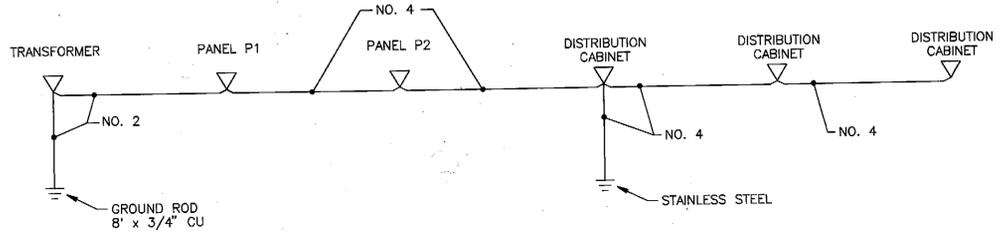
|                     |                      |
|---------------------|----------------------|
| DESIGNED BY:<br>GSS | PROJECT NO.<br>71925 |
| DRAWN BY:<br>JLC    | DATE:<br>7/96        |
| CHECKED BY:<br>TSM  | SHEET 43 OF 44       |

HAIGHT & McLAUGHLIN, INC.  
 CONSULTING ENGINEERS  
 418 Harris Street, Juneau, Alaska 99801 (907) 586-9788

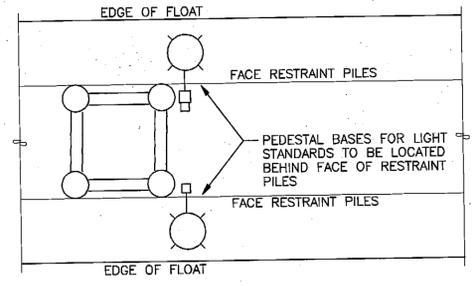




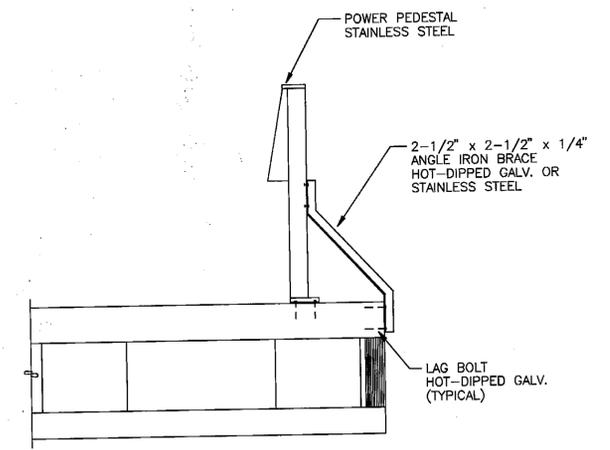
**SINGLE LINE DIAGRAM - FLOAT POWER & LIGHTING**  
NO SCALE



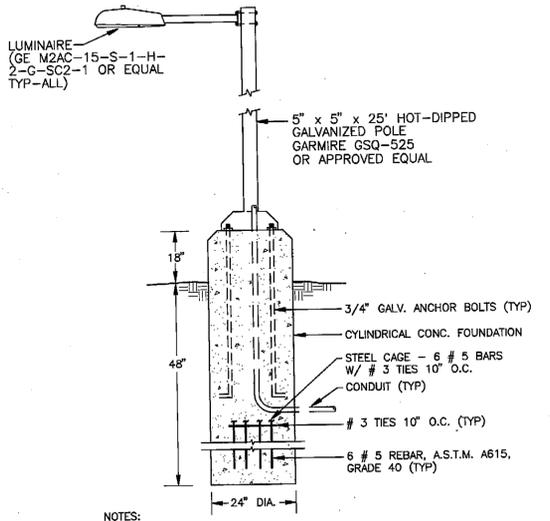
**GROUNDING SCHEMATIC**  
NO SCALE



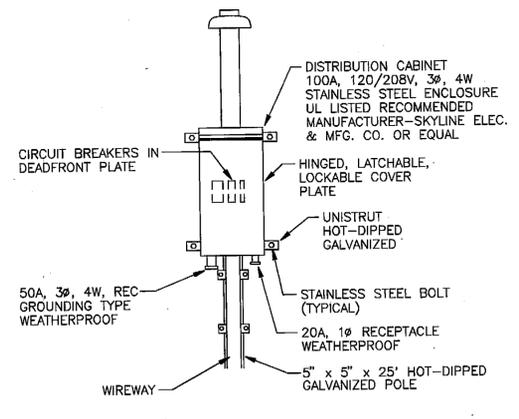
**LIGHT POLE LOCATION DETAIL**  
NO SCALE



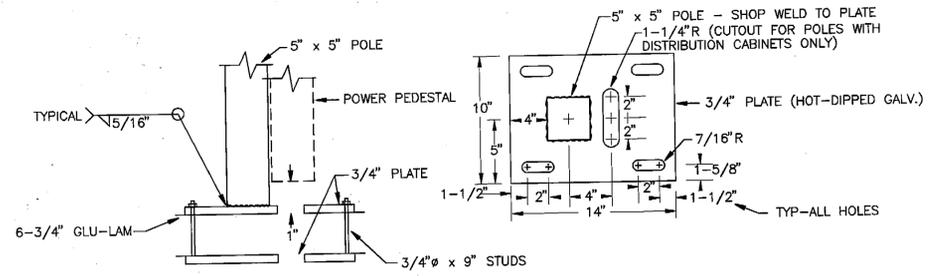
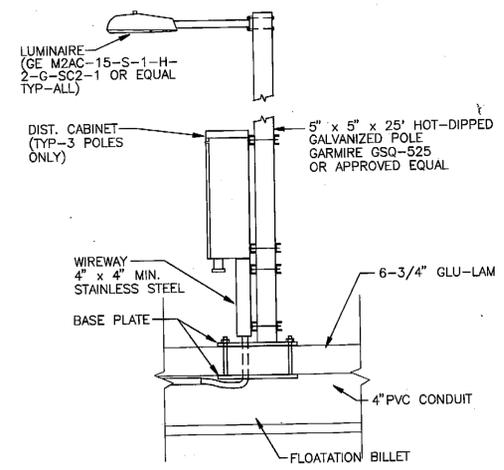
**POWER PEDESTAL MOUNTING DETAIL**  
NO SCALE



**SHORE LIGHT POLE BASE DETAIL**  
NO SCALE



**FLOAT LIGHT POLE MOUNTING DETAIL**



**BASE PLATE - POLE & POWER PEDESTAL**  
NO SCALE

| RECORD OF REVISIONS |       |                        |
|---------------------|-------|------------------------|
| PATH:               | DATE: | DESCRIPTION OF CHANGE: |
|                     |       |                        |
|                     |       |                        |

STATE OF ALASKA  
DEPARTMENT OF TRANSPORTATION  
AND PUBLIC FACILITIES  
SOUTHEAST REGION DESIGN & CONSTRUCTION

KETCHIKAN ALASKA  
KETCHIKAN AIRPORT SEAPLANE FACILITY RECONSTRUCTION  
A.I.P. 3-02-0144-0996/71952  
**SINGLE LINE DIAGRAM AND DETAILS**

|                     |                      |
|---------------------|----------------------|
| DESIGNED BY:<br>GSS | PROJECT NO.<br>71925 |
| DRAWN BY:<br>JLC    | DATE:<br>7/96        |
| CHECKED BY:<br>TSM  | SHEET 44 OF 44       |

HAIGHT & McLAUGHLIN, INC.  
CONSULTING ENGINEERS  
418 Harris Street, Juneau, Alaska 99801 (907) 586-9788



ITEM 301 (19) 30" x 1/2" WALL PIPE PILES

DH-99  
(R 8-67)

STATE OF ALASKA  
DEPARTMENT OF HIGHWAYS

SHEET 1 OF 3

# PILE DRIVING RECORD

FORMULA USED TO DETERMINE BEARING

$$P = \frac{2E}{S + 0.1}$$

INSTR: A SKETCH SHOWING THE LOCATION OF THE PILES BY NUMBER SHALL BE DRAWN ON THE BACK OF THIS FORM OR ON AN ATTACHED SHEET

|  |                                       |              |            |
|--|---------------------------------------|--------------|------------|
| STRUCTURE NAME<br><i>Seaplane Facility</i> | CONTRACTOR<br><i>R-K Construction</i> | HIGHWAY NAME | BRIDGE NO. |
|--|---------------------------------------|--------------|------------|

|                             |                         |                |
|-----------------------------|-------------------------|----------------|
| PROJECT NO.<br><i>71952</i> | DISTRICT<br><i>S.E.</i> | TYPE OF BRIDGE |
|-----------------------------|-------------------------|----------------|

|                                |  |   |                                     |                    |                              |
|--------------------------------|--|---|-------------------------------------|--------------------|------------------------------|
| TYPE OF HAMMER<br><i>9-B-3</i> | MANUFACTURER<br><i>McKinnon, Terry</i> | WT. OF RAM OR GRAVITY HAMMER<br><i>7100 lbs</i> | STROKE LENGTH, MAX.<br><i>3 ft.</i> | NO. BLOWS PER MIN. | MFG'S. MAXIMUM ENERGY RATING |
|--------------------------------|--|---|-------------------------------------|--------------------|------------------------------|

| DATE | ABUTMENT OR PIER NO | PILE NO | TYPE OF PILE<br>(SPECIFY TIP & BUTT DIAMETER OF TIMBER & CONCRETE PILE IN INCHES) | LENGTH PLACED IN LEADS INCLUDING EXTENSIONS (FT.) | CUTOFF LENGTH (FT.) | NET LENGTH CUT OFF TO TIP (FT.) | PENETRATION IN GROUND (FT.) | PILE CUTOFF ELEVATION | OBSERVED GROUND ELEVATION | PILE TIP ELEVATION | DROP OF HAMMER (INCHES) | AVERAGE PENETRATION OF LAST 5 BLOWS | COMPUTED BEARING (TONS) | REMARKS  |
|------|---------------------|---------|---|---|---------------------|---------------------------------|-----------------------------|-----------------------|---------------------------|--------------------|-------------------------|-------------------------------------|-------------------------|--|
|      |                     |         |   |   |                     |                                 |                             |                       |                           |                    |                         |                                     |                         | SPECIFY BATTER, IF ANY. HOW DID PILE DRIVE? SPECIFY SPLICES, CORE STOPPERS, EXTENSION LENGTHS USED |
| 2-19 | C                   | 4       | 30 x 1/2" spiral wall   | 72  | 1.7                 | 70.3                            | 19                          | 29.3                  | -22                       | -41                | 36                      |                                     |                         | Piles were socketed. No bearing or uplift req'd.   |
| 2-20 | C                   | 3       | }   |   | 1.3                 | 70.7                            | 19.4                        |                       | -22                       | -41.4              |                         |                                     |                         |  |
| 3-1  | C                   | 2       |   |   | 3.7                 | 68.3                            | 21                          |                       | -18                       | -39                |                         |                                     |                         |  |
| 3-1  | C                   | 1       |   |   | 7.7                 | 64.3                            | 17                          |                       | -18                       | -35                |                         |                                     |                         |  |
| 3-9  | B                   | 1       |   | 68  | 3.7                 | 64.3                            | 19                          |                       | -16                       | -35                |                         |                                     |                         |  |
| 3-9  | B                   | 2       |   |   | 2.7                 | 65.3                            | 21                          |                       | -15                       | -36                |                         |                                     |                         |  |
| 3-9  | B                   | 3       |   |   | 7.2                 | 60.8                            | 18.5                        |                       | -13                       | -31.5              |                         |                                     |                         |  |
| 3-10 | B                   | 4       |   |   | 7.7                 | 60.3                            | 18                          |                       | -13                       | -31                |                         |                                     |                         |  |
| 3-14 | A                   | 1       |   | 64  | 6.2                 | 57.8                            | 16                          |                       | -12.5                     | -28.5              |                         |                                     |                         |  |
| 3-14 | A                   | 4       |   |   | 3.2                 | 60.8                            | 18.5                        |                       | -13                       | -31.5              |                         |                                     |                         |  |
| 3-15 | A                   | 2       |   |   | 7.2                 | 56.8                            | 15.5                        |                       | -12                       | -27.5              |                         |                                     |                         |  |
| 3-5  | A                   | 3       |   | 6.2   | 57.8                | 16.5                            |                             | -12                   | -28.5                     |                    |                         |                                     |                         |  |

|   |                        |                                      |                       |   |
|---|------------------------|--------------------------------------|-----------------------|---|
| PREPARED BY<br>NAME<br><i>G. WILLIAMS</i> | DATE<br><i>3-15-97</i> | CHECKED BY<br>NAME<br><i>SHEPARD</i> | DATE<br><i>6-6-97</i> | TOTAL LENGTH FURNISHED<br><i>757.5 L.F.</i> |
|---|------------------------|--------------------------------------|-----------------------|---|

(1) DISTRICT ENGINEER  
 (2) HEADQUARTERS  
 DISTRIBUTION OF COPIES:



