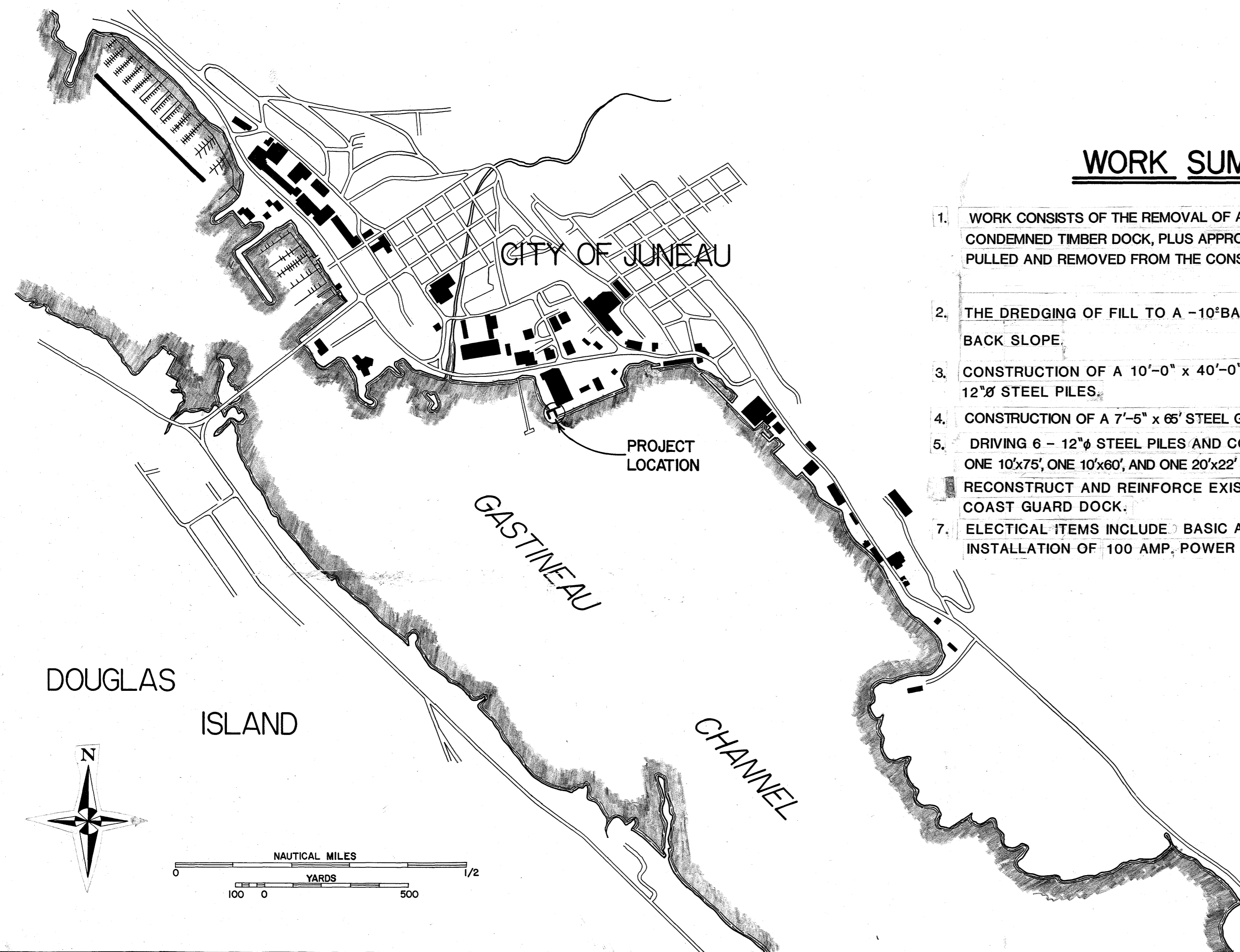


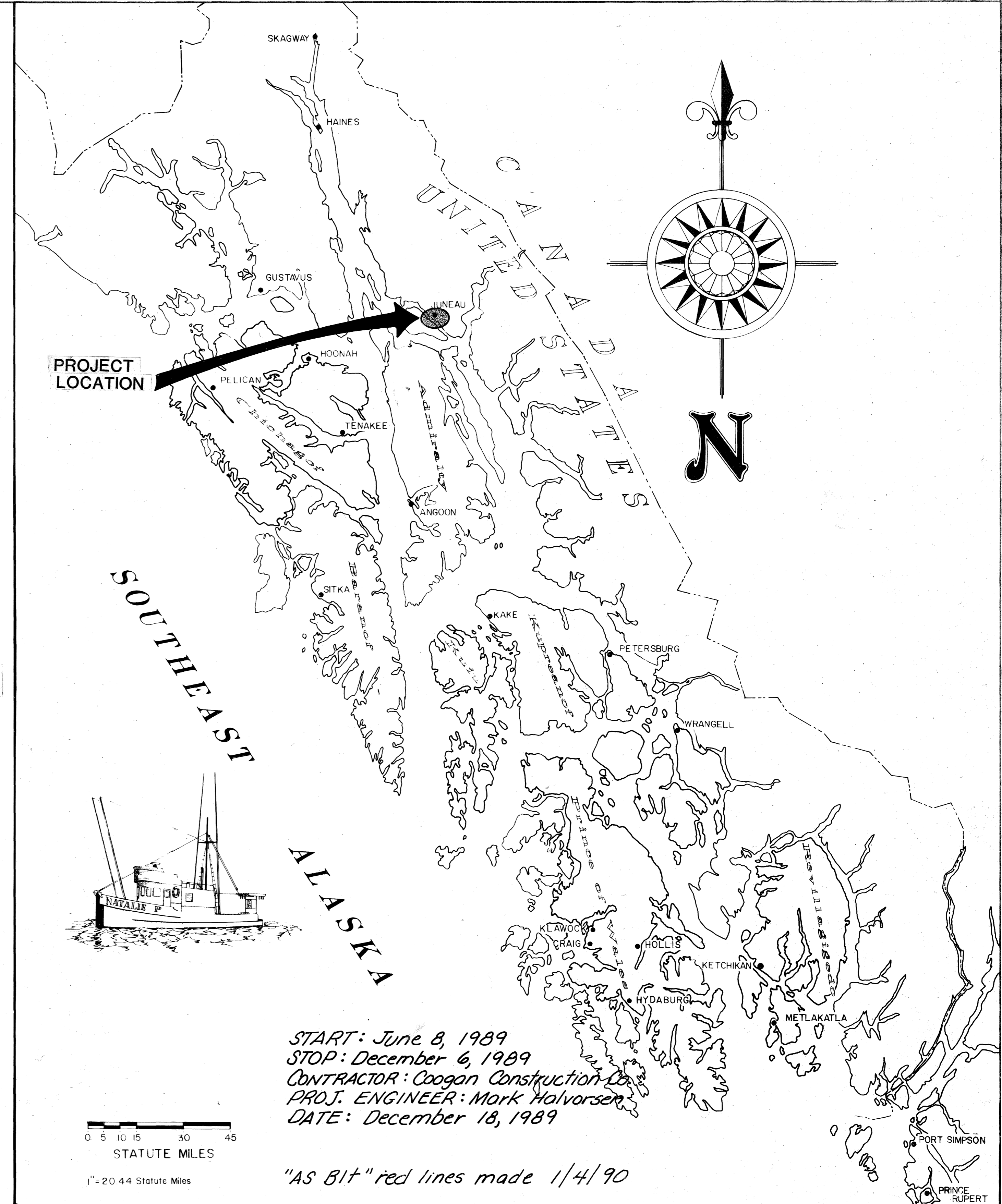
# ALASKA NATIONAL GUARD JUNEAU L.C.M. FLOAT FACILITY (RE-BID)

PROJECT NO. 67822



### WORK SUMMARY

1. WORK CONSISTS OF THE REMOVAL OF APPROX. 4,000 SQ.FT. OF CONDEMNED TIMBER DOCK, PLUS APPROX. 65 TIMBER PILES TO BE PULLED AND REMOVED FROM THE CONSTRUCTION SITE.
2. THE DREDGING OF FILL TO A -10' BASIN DEPTH WITH 1.5 TO 1.0 BACK SLOPE.
3. CONSTRUCTION OF A 10'-0" x 40'-0" STEEL APPROACH ON 6-12" Ø STEEL PILES.
4. CONSTRUCTION OF A 7'-5" x 65' STEEL GANGWAY.
5. DRIVING 6 - 12" Ø STEEL PILES AND CONSTRUCTION OF ONE 10'x75', ONE 10'x60', AND ONE 20'x22' TIMBER FLOAT UNITS.
6. RECONSTRUCT AND REINFORCE EXISTING EDGE OF TIMBER COAST GUARD DOCK.
7. ELECTRICAL ITEMS INCLUDE BASIC AREA ILLUMINATION & INSTALLATION OF 100 AMP. POWER FOR L.C.M.- 8 VESSELS.



START: June 8, 1989  
STOP: December 6, 1989  
CONTRACTOR: Coogan Construction Co.  
PROJ. ENGINEER: Mark Holvorser  
DATE: December 18, 1989

"AS Bt" red lines made 1/4/90

STATE  
OF  
ALASKA

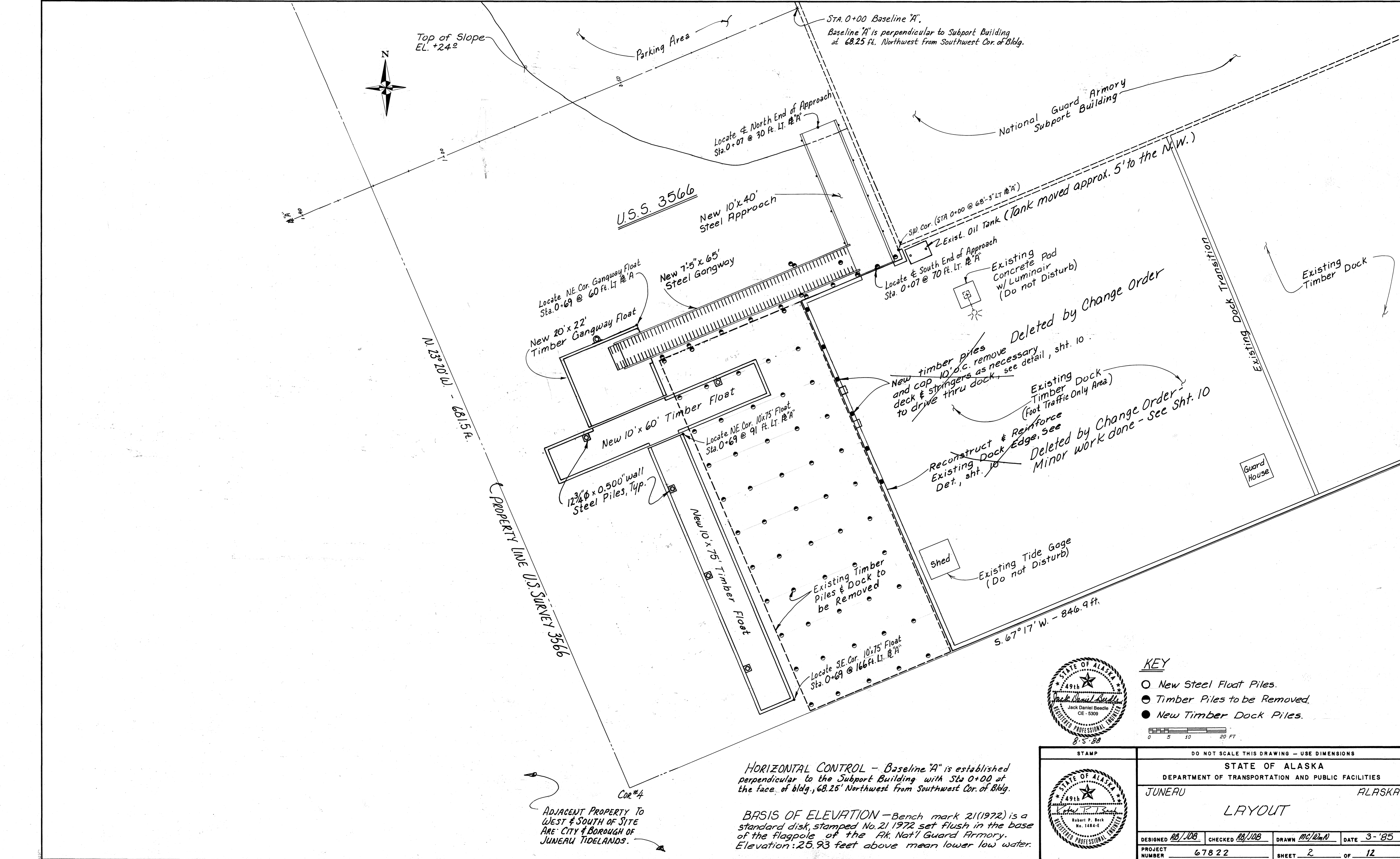
DEPARTMENT OF TRANSPORTATION  
& PUBLIC FACILITIES  
S.E. REGION DESIGN & CONSTRUCTION

APPROVED  
*[Signature]* 8-5-88  
Director S.E. D.&C. Date  
Recommend  
or Approval  
*[Signature]* 8-5-88  
Design Chief Date  
SHEET 1 of 12

### INDEX TO SHEETS

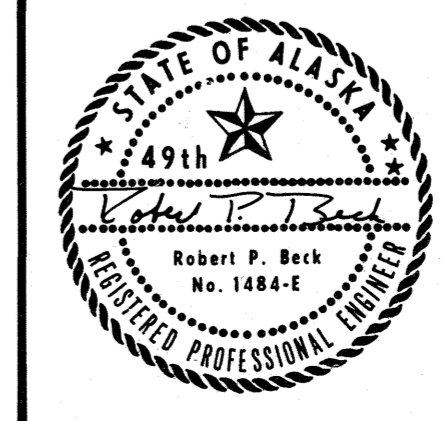
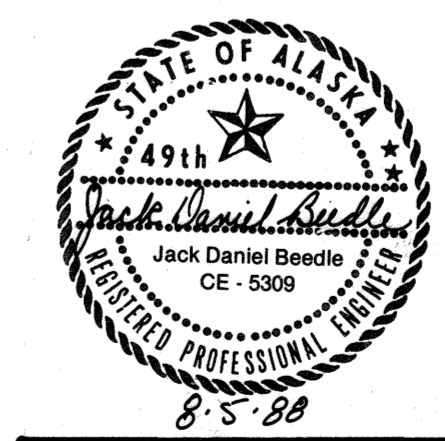
1. TITLE & LOCATION	10. EXISTING DOCK MODIFICATION
2. LAYOUT	11. ELECTRICAL LAYOUT & DETAILS
3. DREDGING PLAN	12. ELECTRICAL LAYOUT & DETAILS
4. 10'-0" TIMBER FLOAT	
5. CONNECTION & GANGWAY FLOAT DETAILS	
6. 65'-0" STEEL GANGWAY	
7. GANGWAY DETAILS	
8. 40'-0" APPROACH	
9. APPROACH DETAILS	

PROJECT &  
FILE NO.



**HORIZONTAL CONTROL** - Baseline "A" is established perpendicular to the Support Building with Sta 0+00 at the face of bldg., 68.25' Northwest from Southwest Cor. of Bldg.

**BASIS OF ELEVATION** - Bench mark 21(1972) is a standard disk, stamped No. 21 1972 set flush in the base of the flagpole of the AK Nat'l Guard Armory. Elevation: 25.93 feet above mean lower low water.



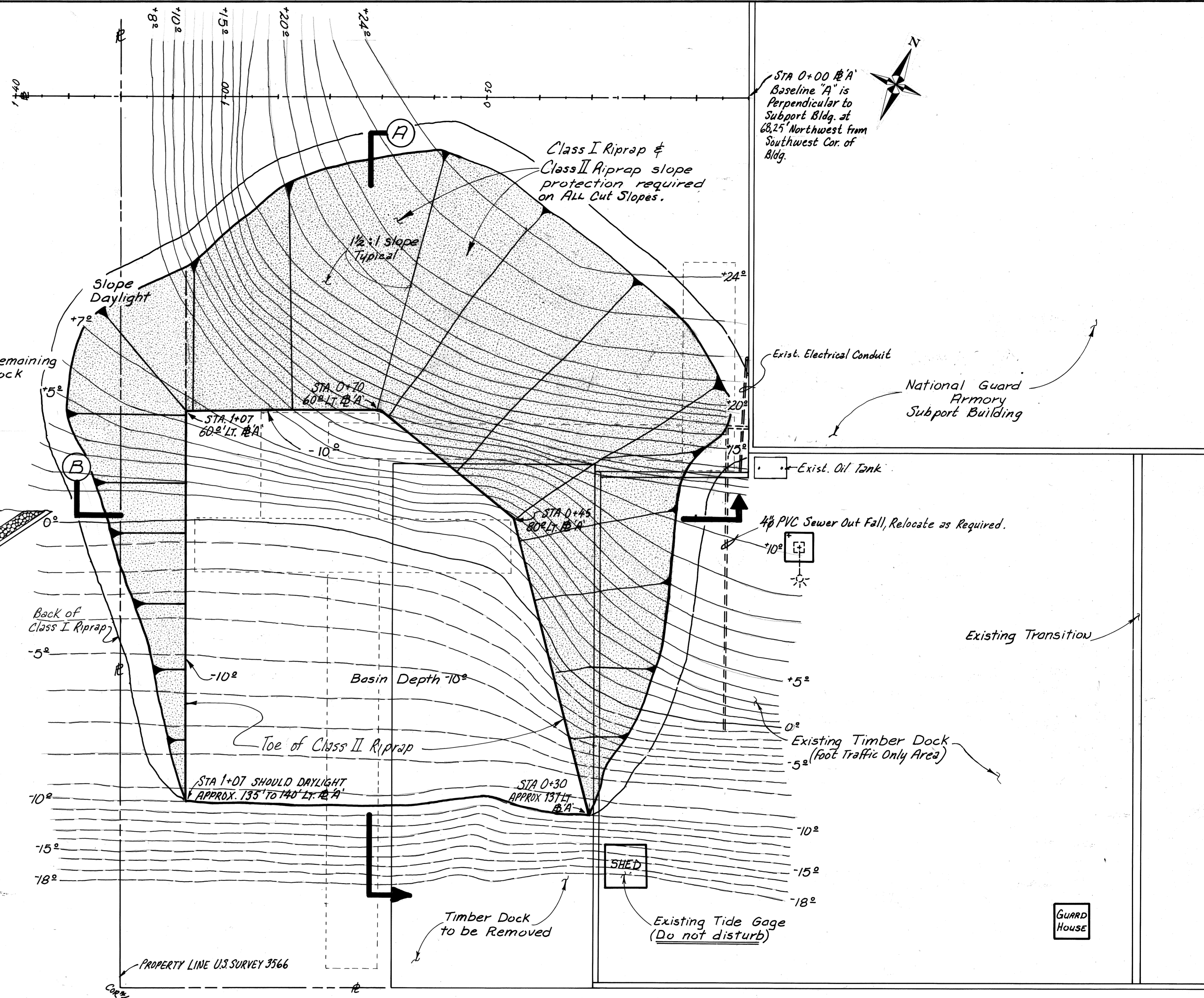
**KEY**

- New Steel Float Piles.
- Timber Piles to be Removed.
- New Timber Dock Piles.

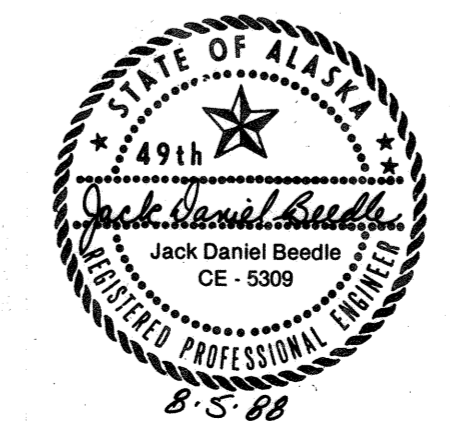
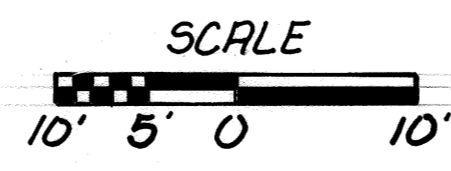
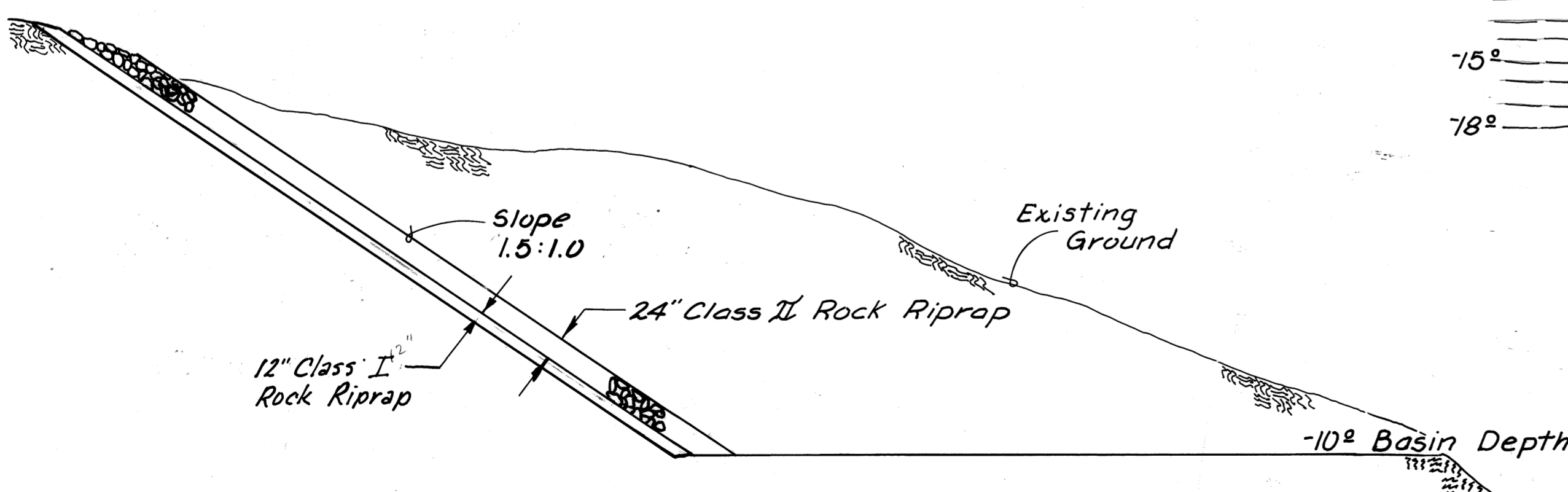
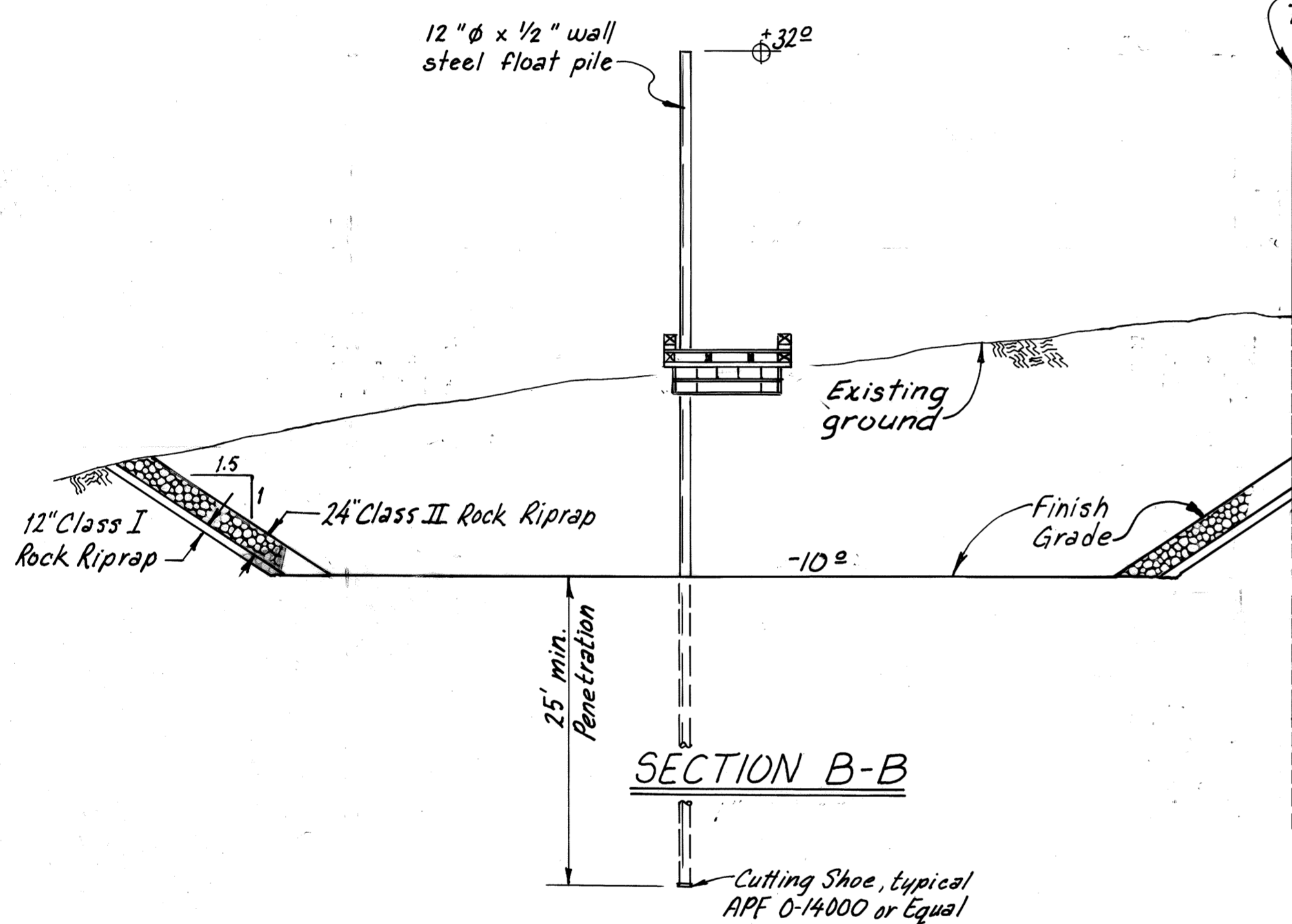
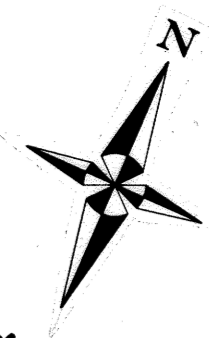
0 5 10 20 FT

STAMP		DO NOT SCALE THIS DRAWING - USE DIMENSIONS	
STATE OF ALASKA DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES			
JUNEAU		ALASKA	
<b>LAYOUT</b>			
DESIGNED RB/JDB	CHECKED RB/JDB	DRAWN MC/DMW	DATE 3-'85
PROJECT NUMBER 67822	SHEET 2 OF 12		

Class II Riprap used is larger than specified overall & thickness installed is much greater than 24" specified in all cases - Basin limits & slopes were over excavated & brought back close to Plan with rock riprap available from excavation & from Contractor's pit - Overall very good protection from rough water with bigger rock.



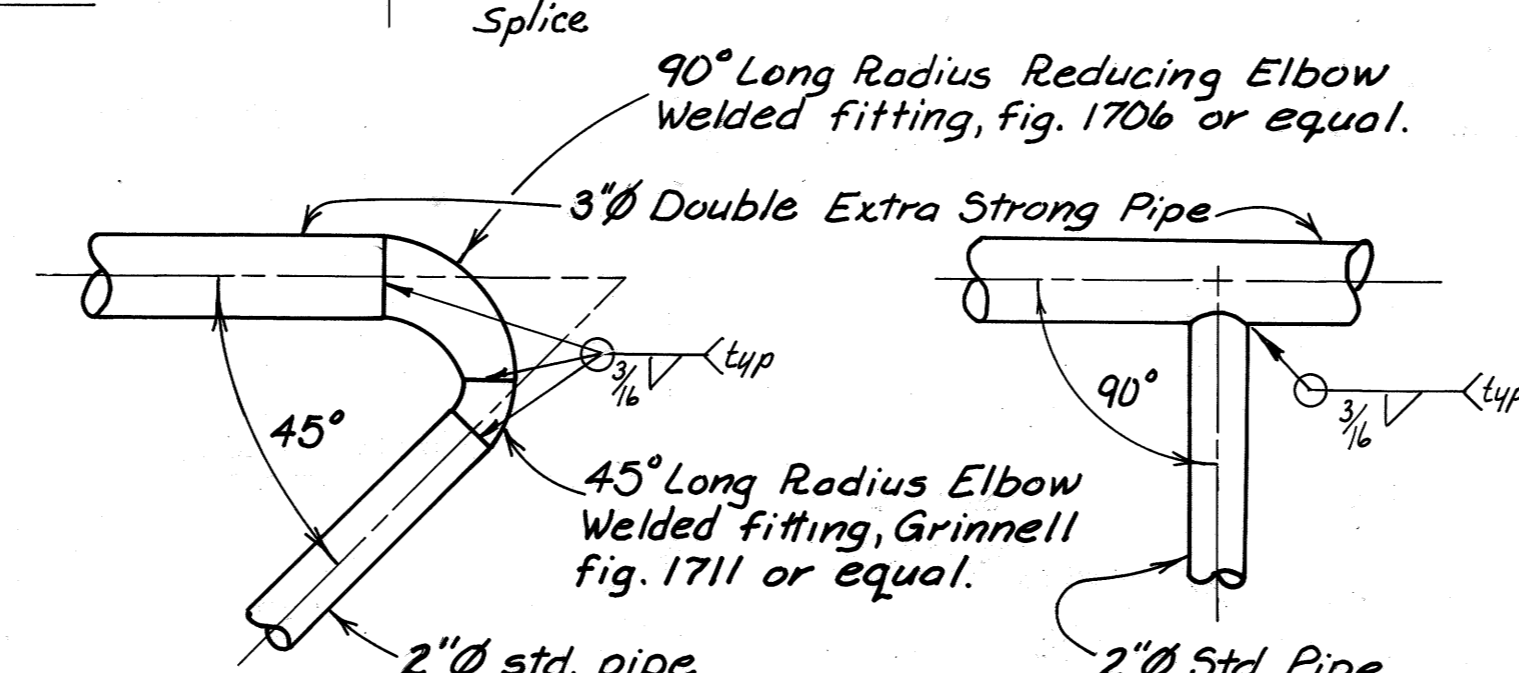
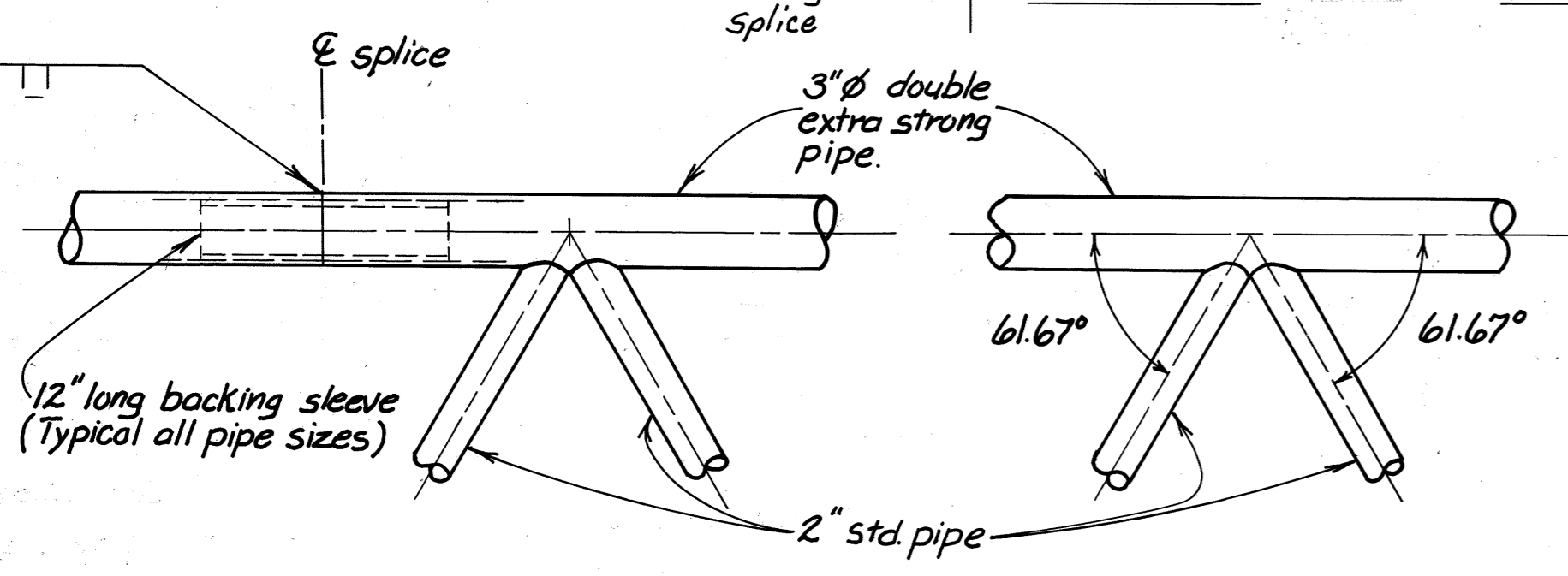
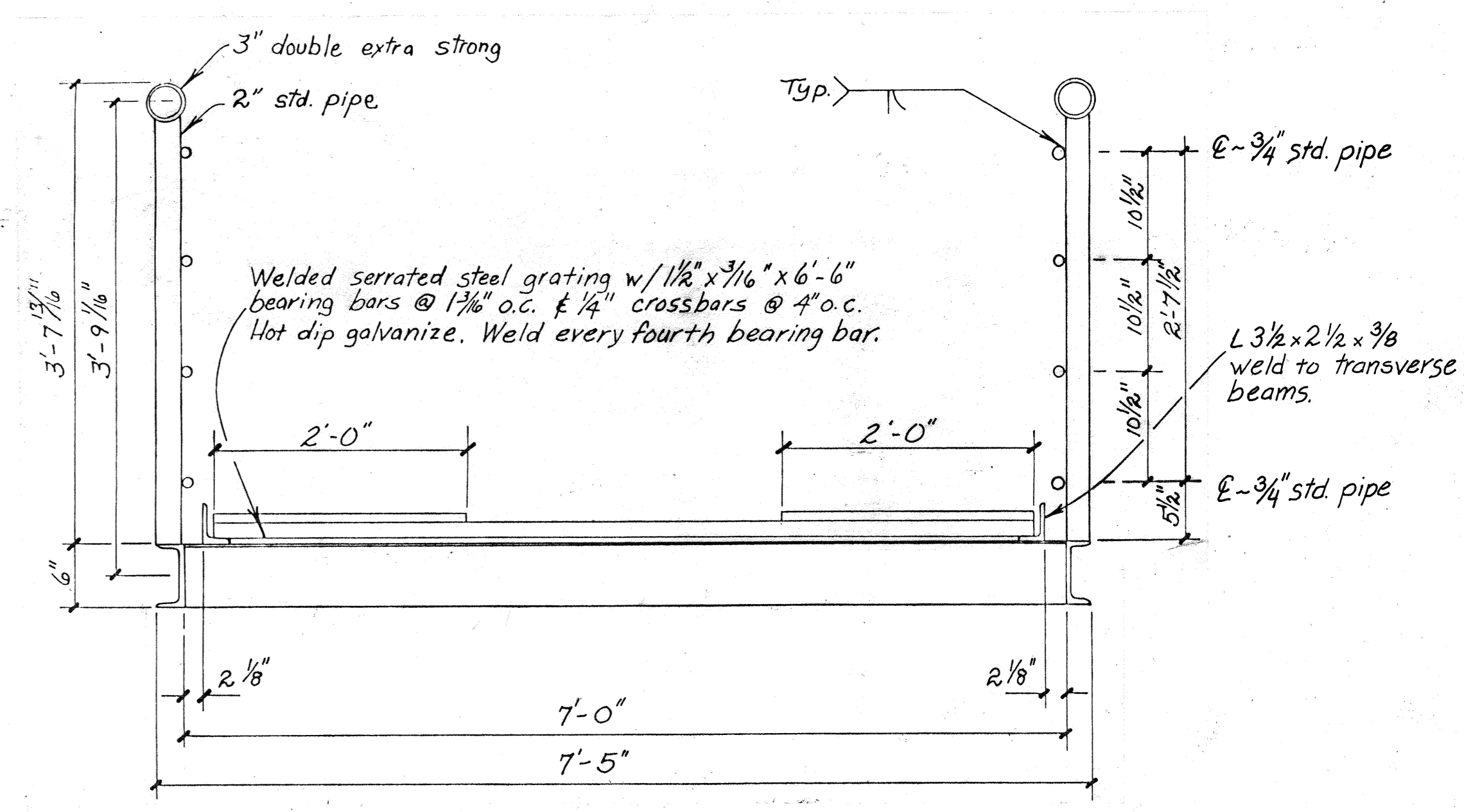
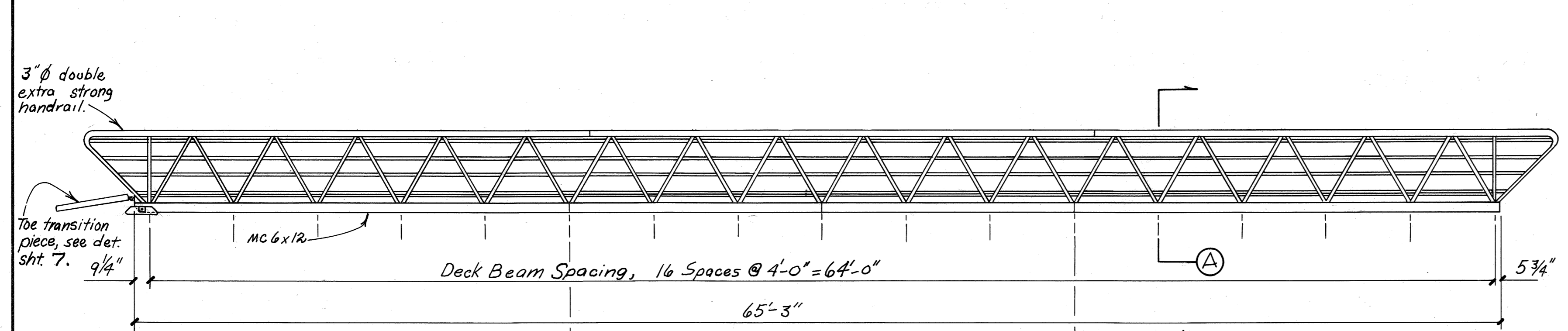
STA 0+00 B' A' Baseline 'A' is Perpendicular to Subport Bldg. at 68.25' Northwest from Southwest Cor. of Bldg.



DO NOT SCALE THIS DRAWING - USE DIMENSIONS			
STATE OF ALASKA			
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES			
JUNEAU		ALASKA	
DREDGING PLAN			
DESIGNED RB/108	CHECKED RB/108	DRAWN MC/108	DATE 3-'85
PROJECT NUMBER 67822	SHEET 3		OF 12







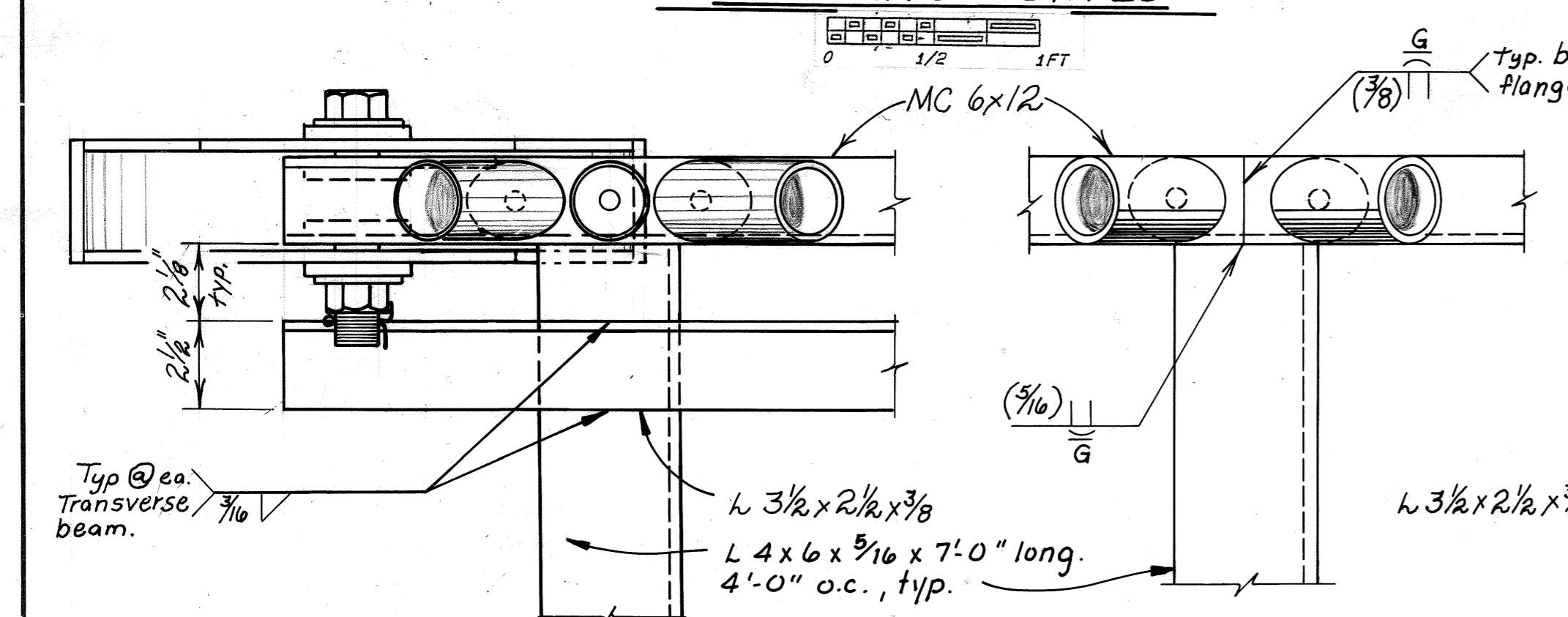
PIPE SPLICE DETAIL

BRACE DETAIL

HANDRAIL TERMINAL

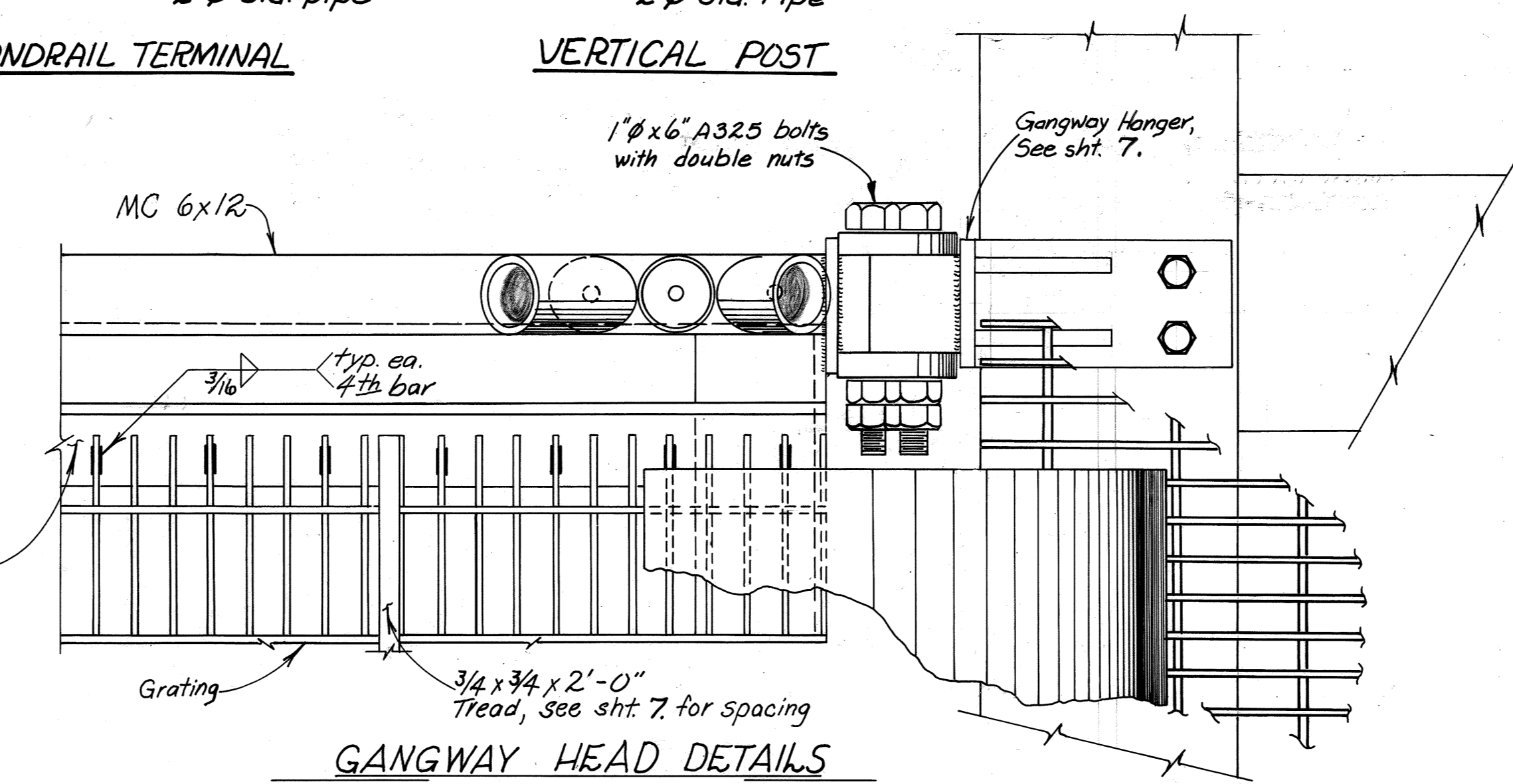
VERTICAL POST

HANDRAIL DETAILS

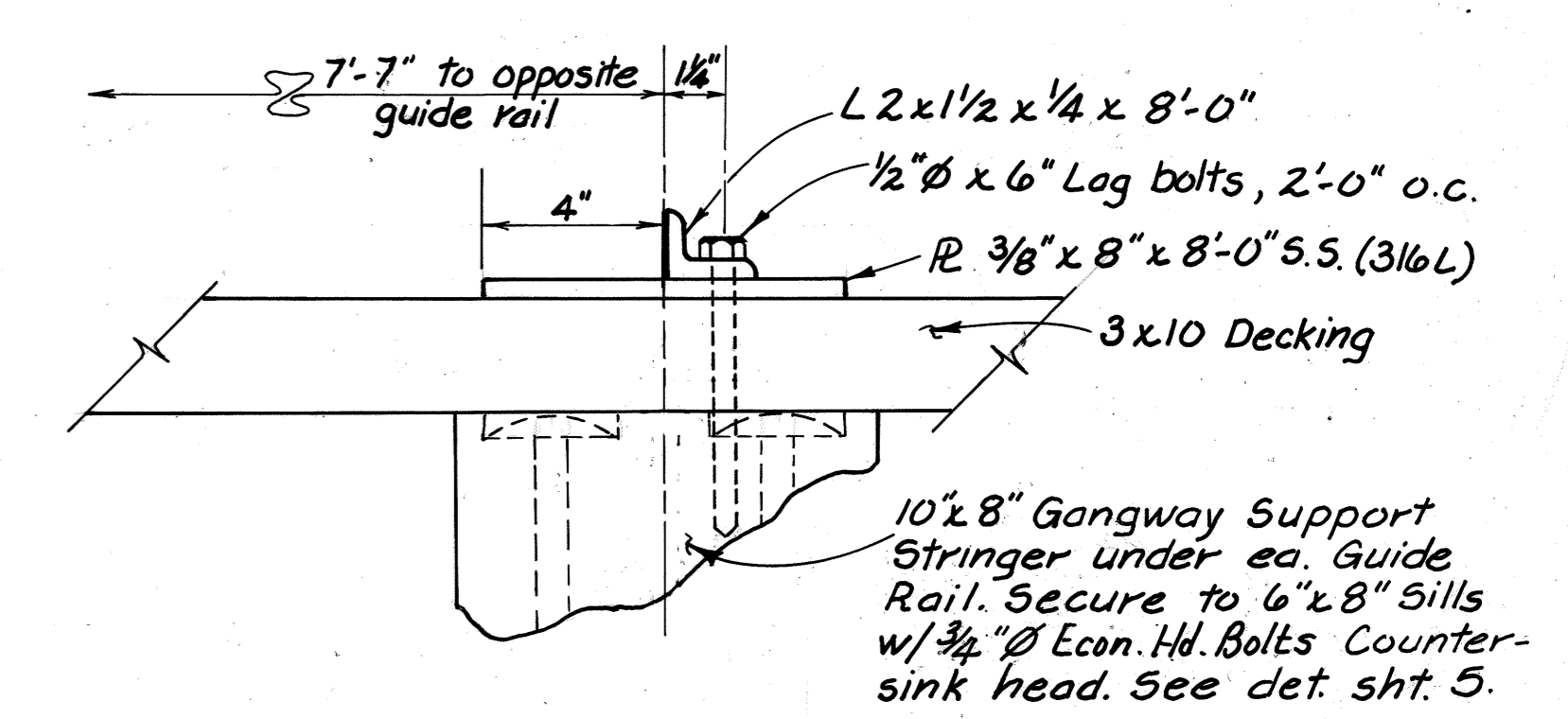


GANGWAY TOE

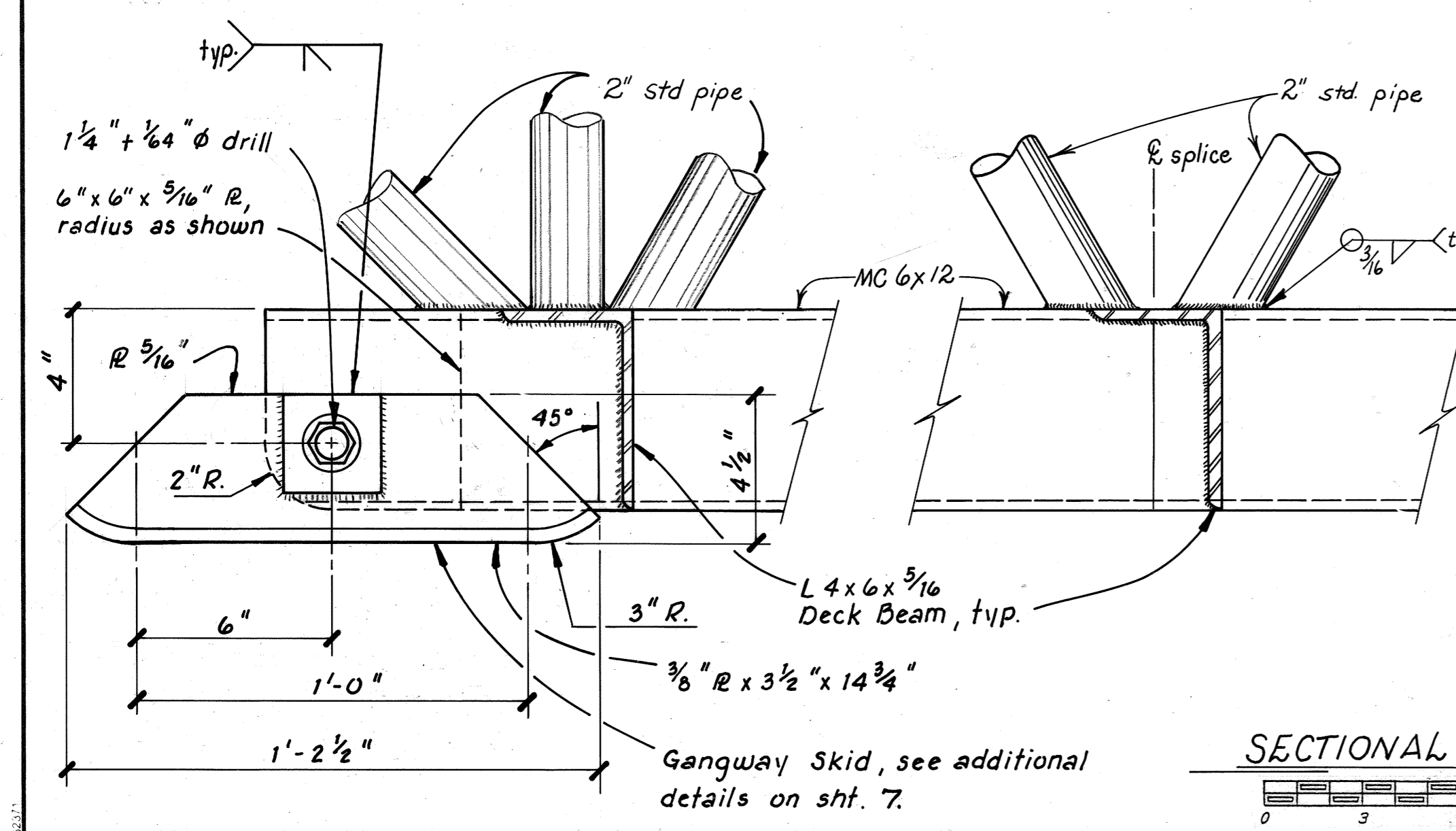
STRINGER SPLICE



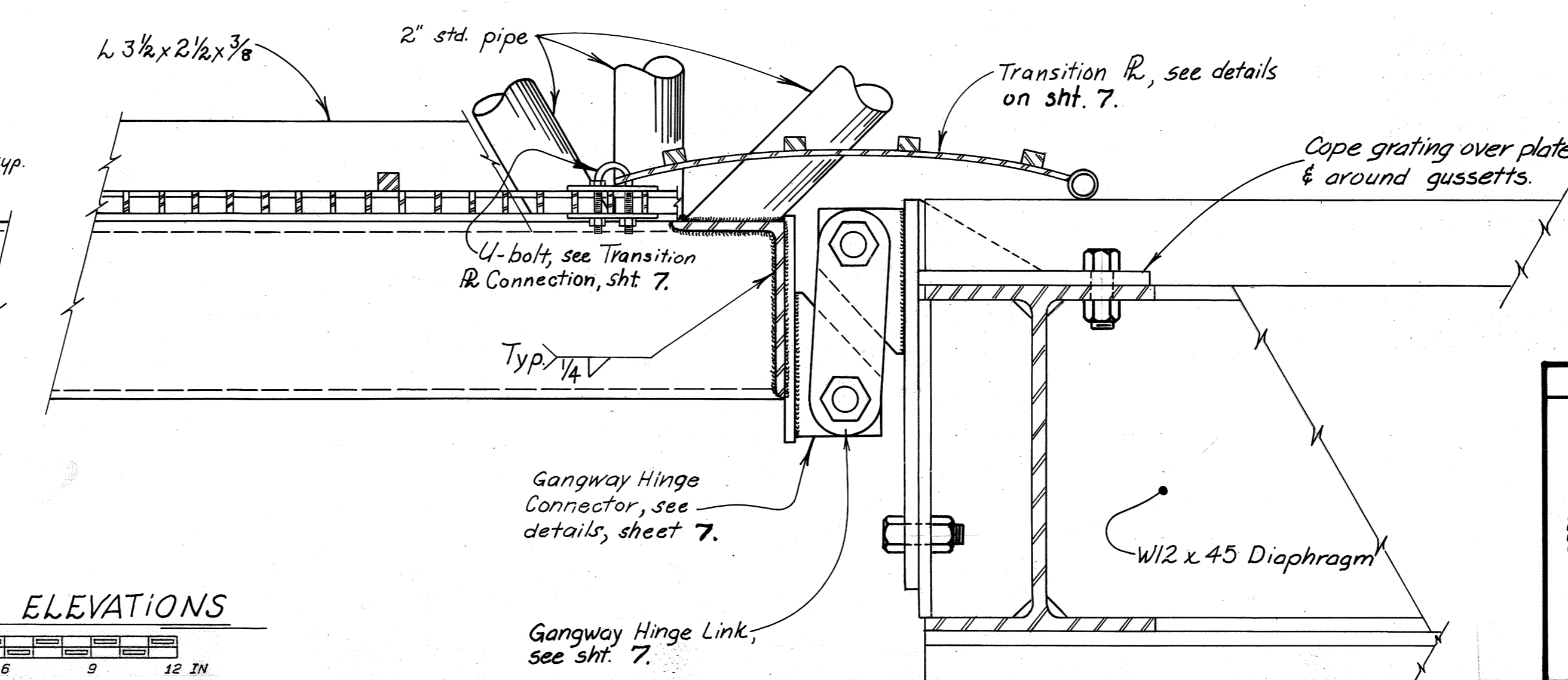
GANGWAY HEAD DETAILS



GANGWAY GUIDE RAIL DETAIL NTS

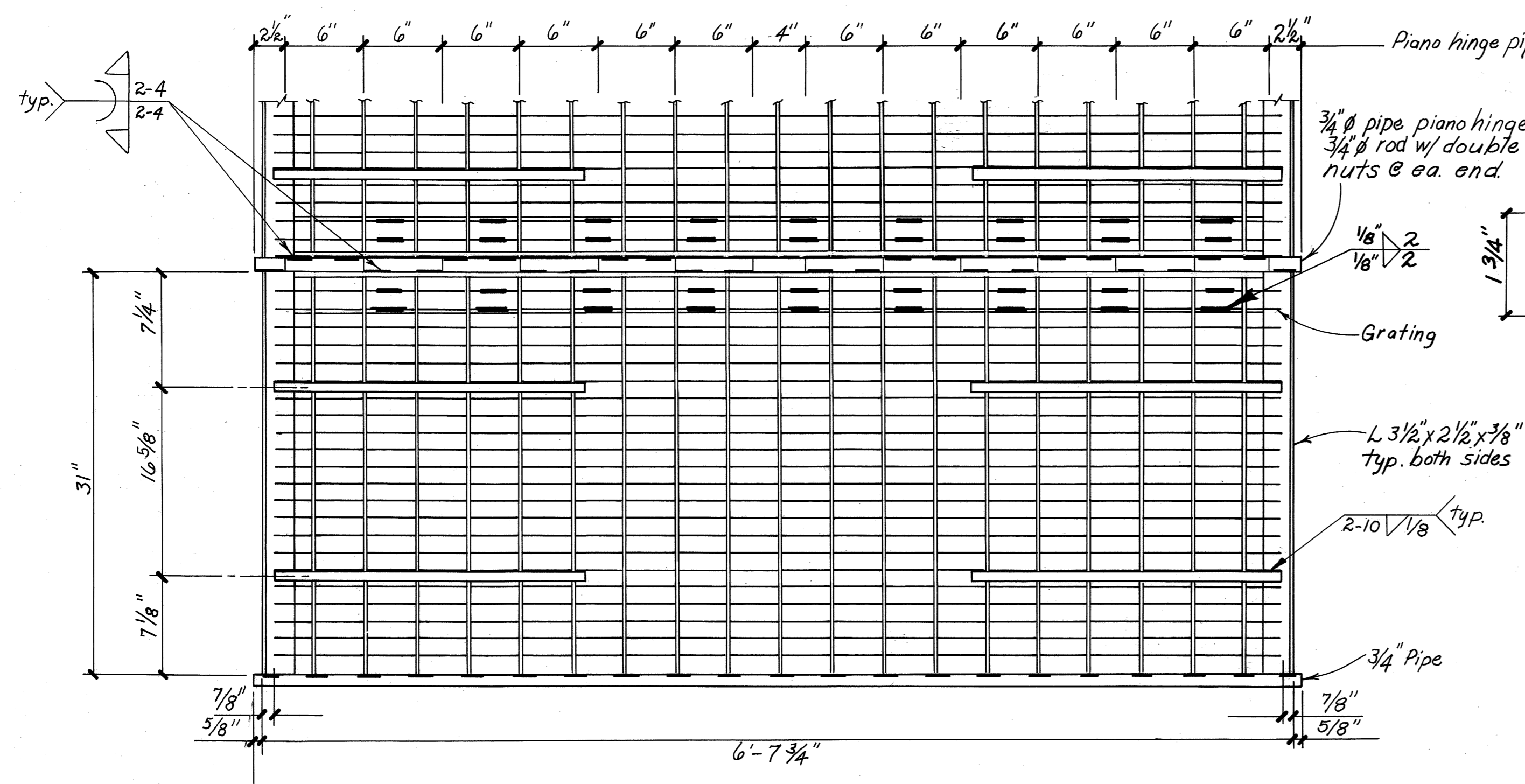


SECTIONAL ELEVATIONS



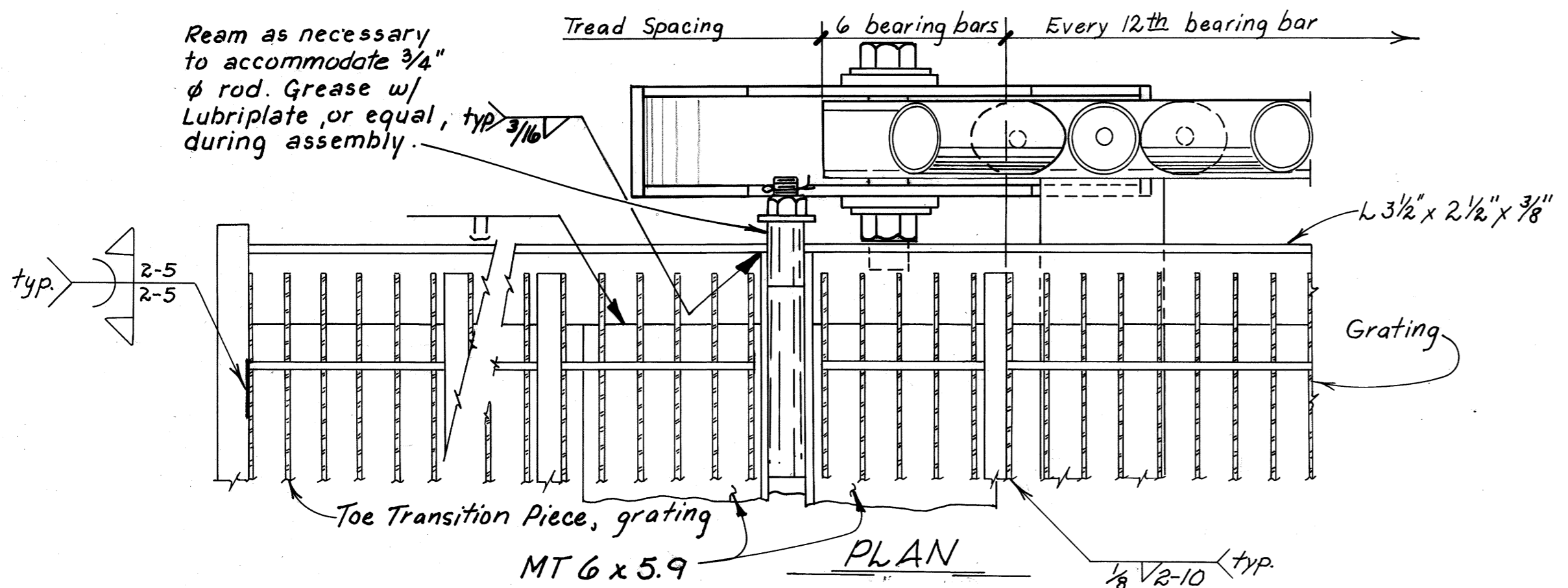
- NOTES:
1. Design live load 85 psf.
  2. All seamless pipe shall conform to ASTM A-53, Grade B or ASTM A-500 and shall be galvanized.
  3. All shapes & plates shall conform to ASTM A-36 and shall be galvanized.
  4. Ship assembled.
  5. No stringer or pipe splices may be located in middle 3rd of gangway.
  6. Hot dip Galv. all steel components after fabrication.
  7. Fabricator is to pre-assemble all components to assure proper fit.

STAMP		DO NOT SCALE THIS DRAWING - USE DIMENSIONS	
		STATE OF ALASKA	
		DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES	
Juneau		Alaska	
7'-5" x 65'-0" STEEL GANGWAY			
DESIGNED R.B.	CHECKED RB/DOB	DRAWN M.C.	DATE 3-'85
PROJECT NUMBER 67822	SHEET 6 OF 12		

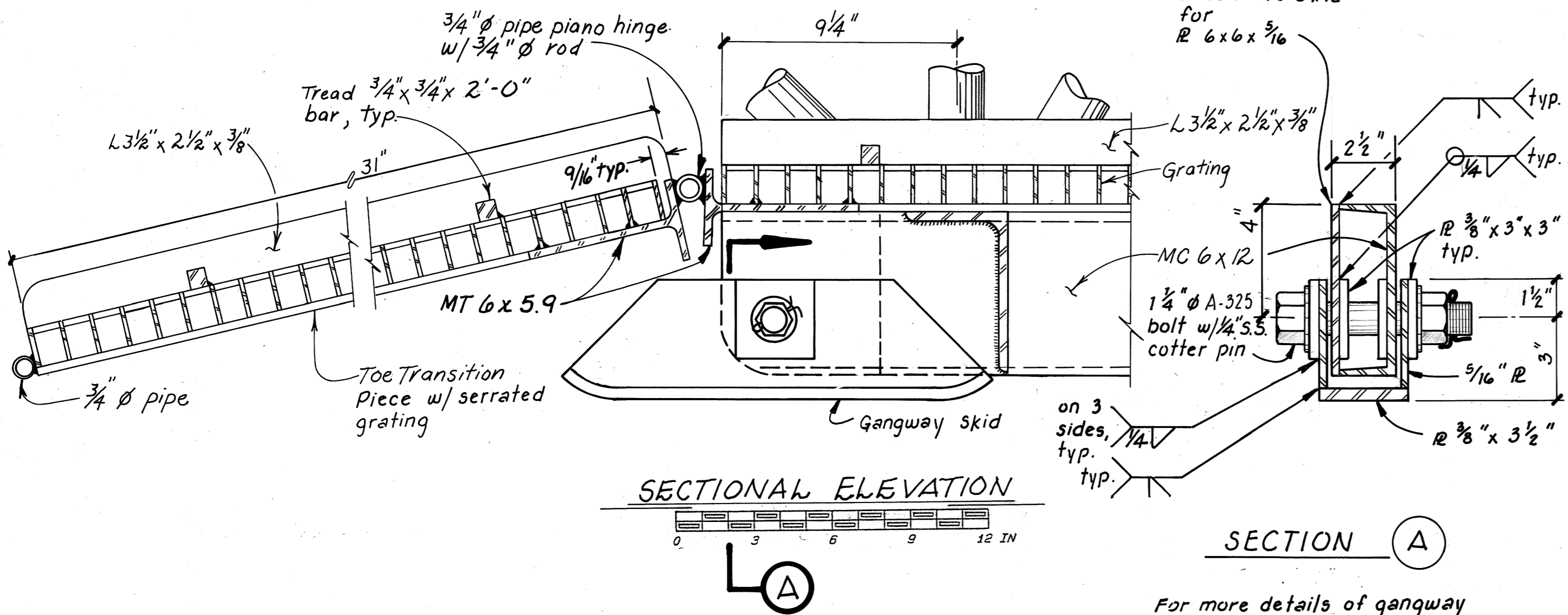


TOE TRANSITION PIECE PLAN

Ream as necessary to accommodate 3/4"  $\phi$  rod. Grease w/ Lubriplate, or equal, typ 3/16" during assembly.



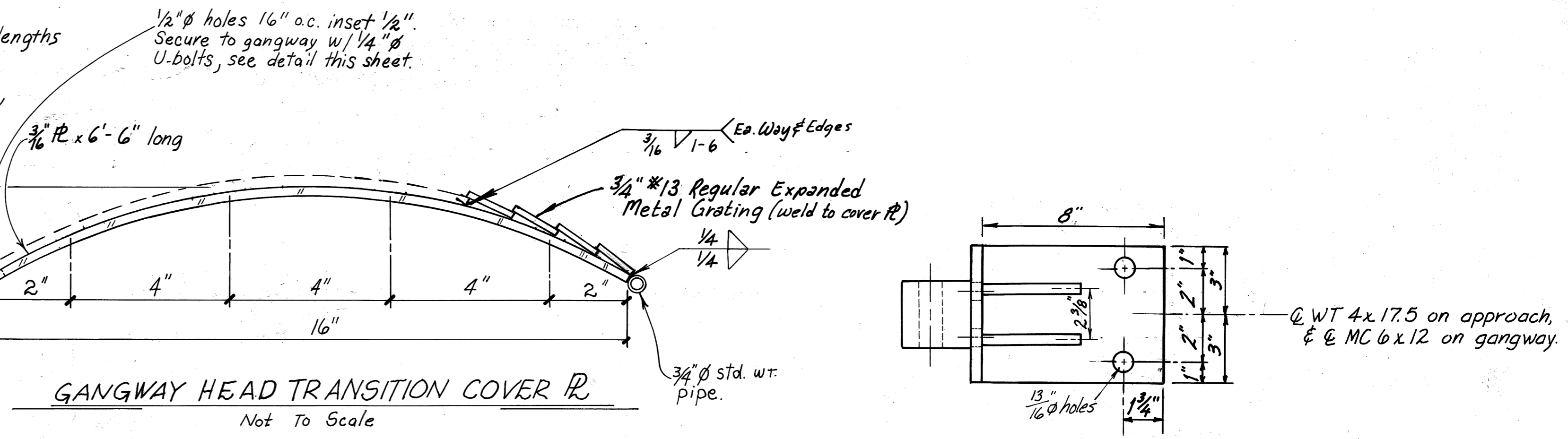
TOE TRANSITION PIECE PLAN



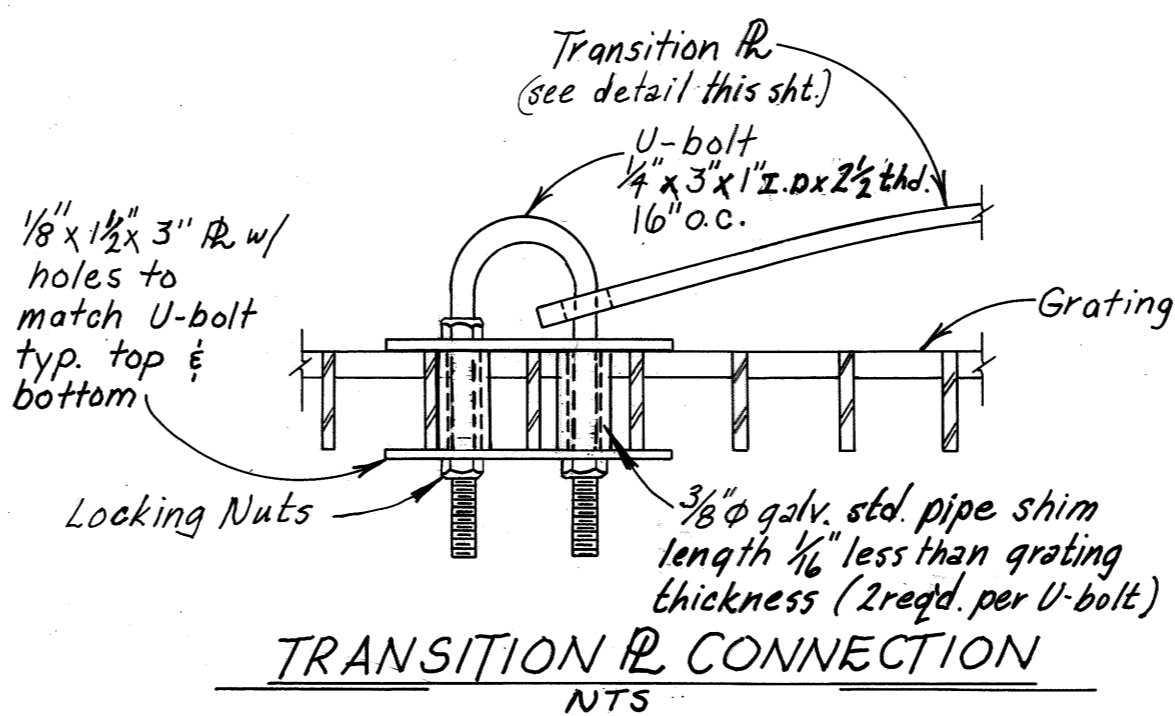
SECTIONAL ELEVATION

SECTION (A)

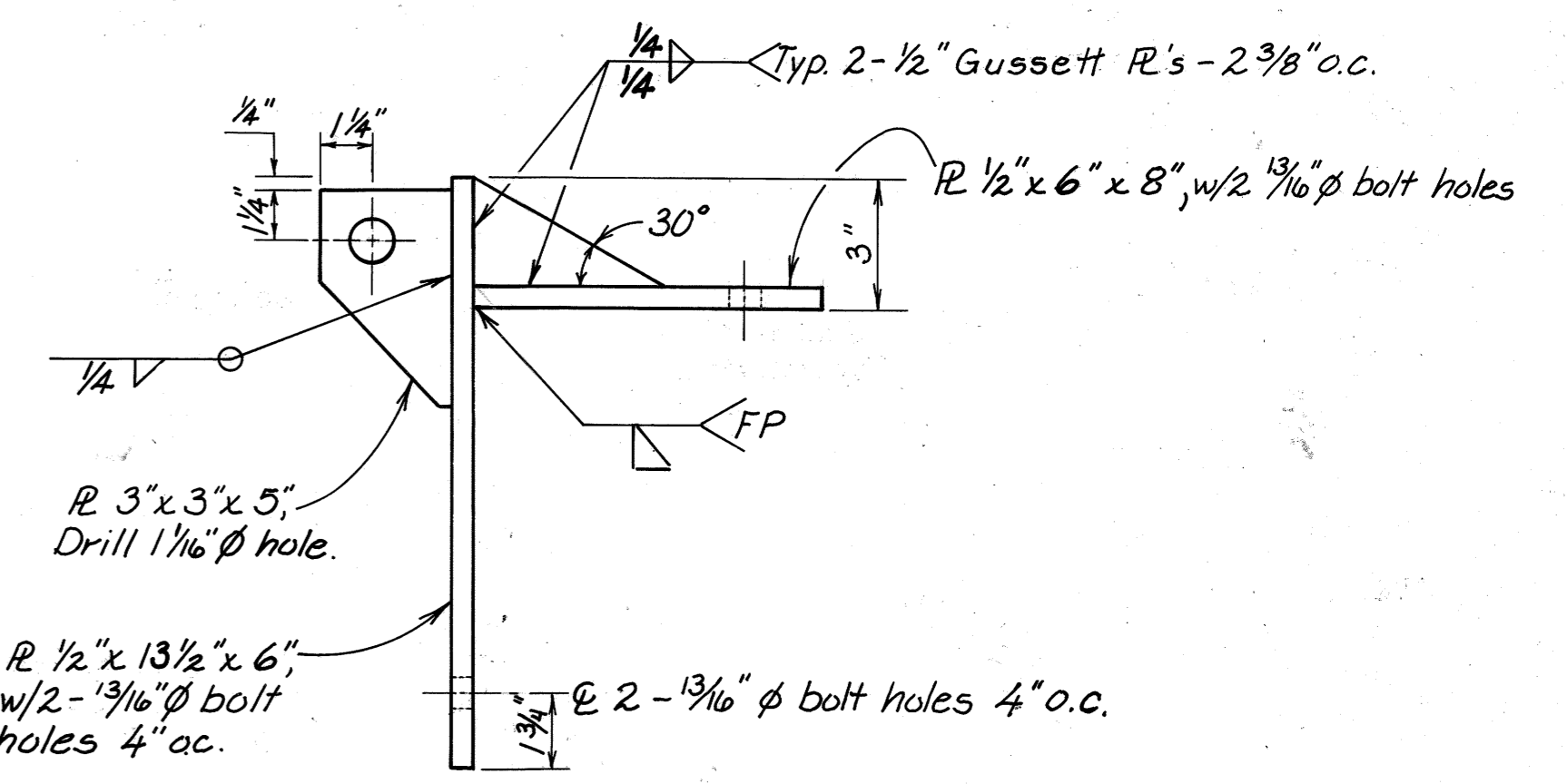
For more details of gangway skid, see sht. 6.



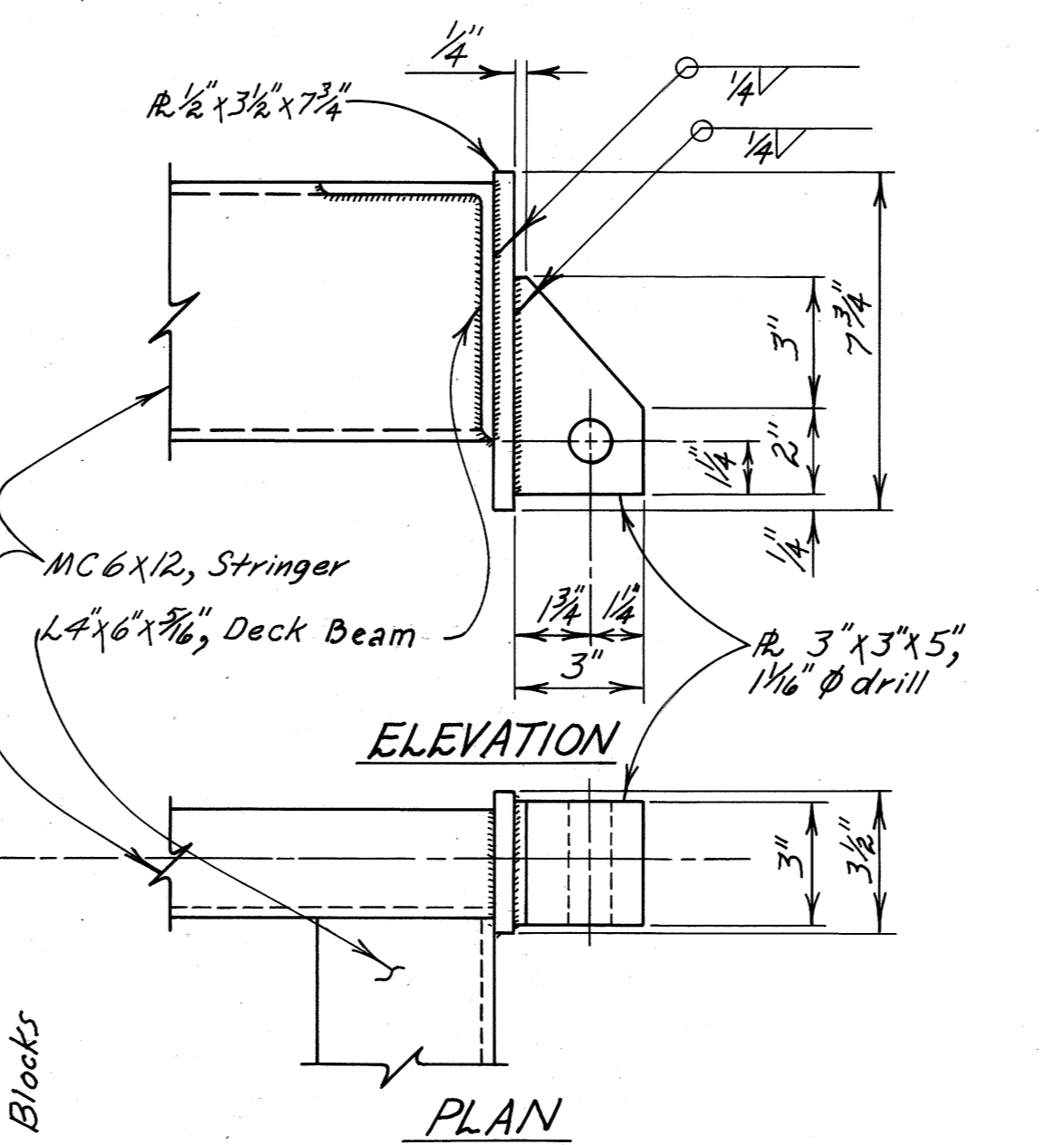
GANGWAY HEAD TRANSITION COVER R



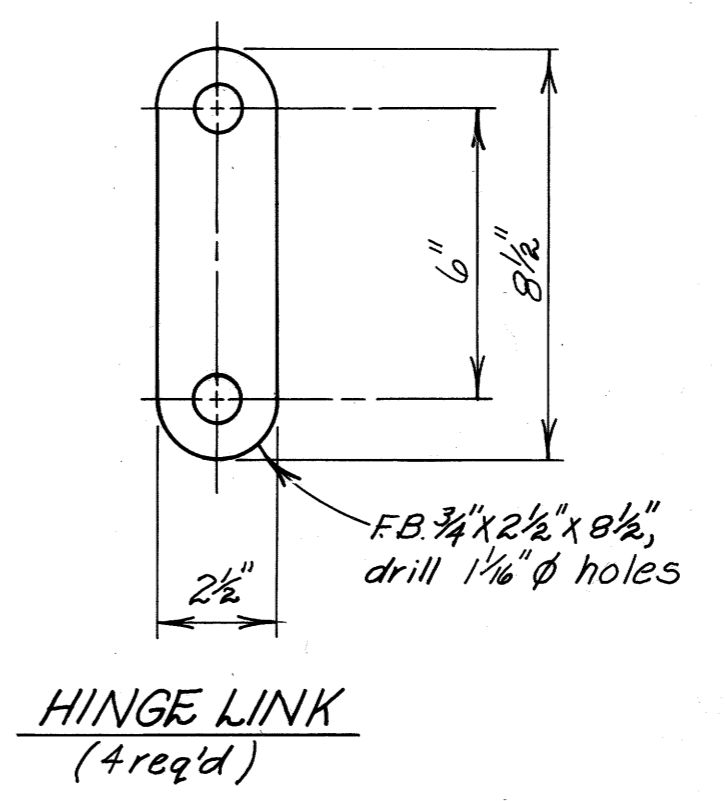
TRANSITION R CONNECTION



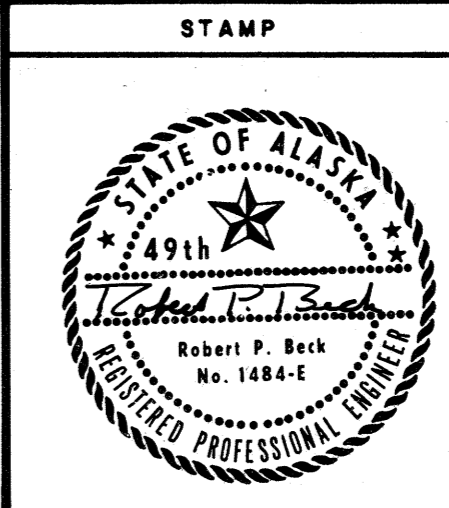
GANGWAY HANGER 2 Req'd



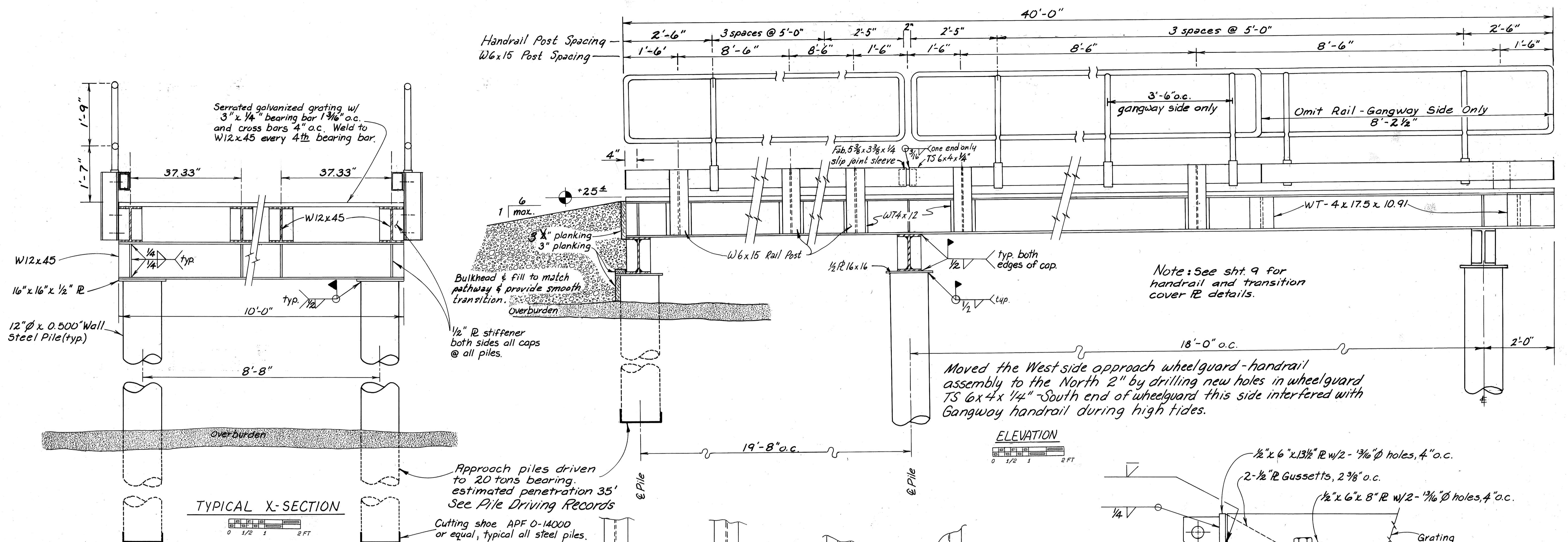
GANGWAY HINGE CONNECTOR



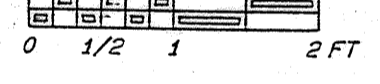
HINGE LINK (4 req'd)



DO NOT SCALE THIS DRAWING - USE DIMENSIONS			
STATE OF ALASKA			
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES			
JUNEAU		ALASKA	
GANGWAY DETAILS			
DESIGNED R.B.	CHECKED RB/128	DRAWN M.C.	DATE 3-'85
PROJECT NUMBER 67822	SHEET 7 OF 12		

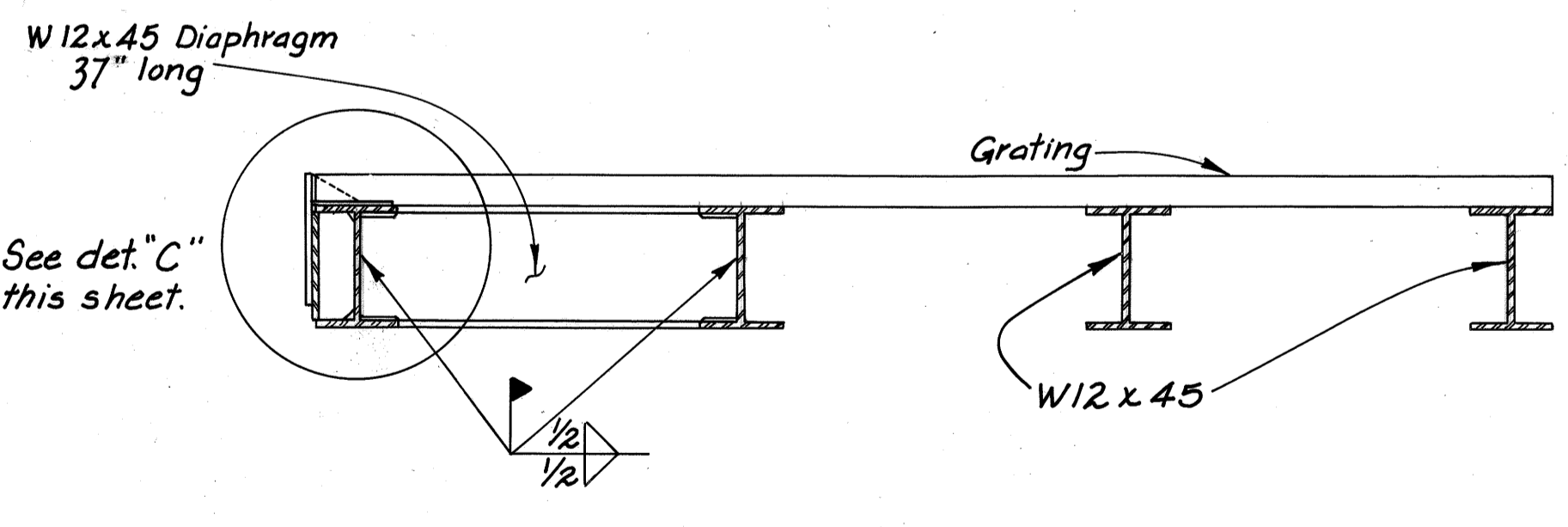


TYPICAL X-SECTION

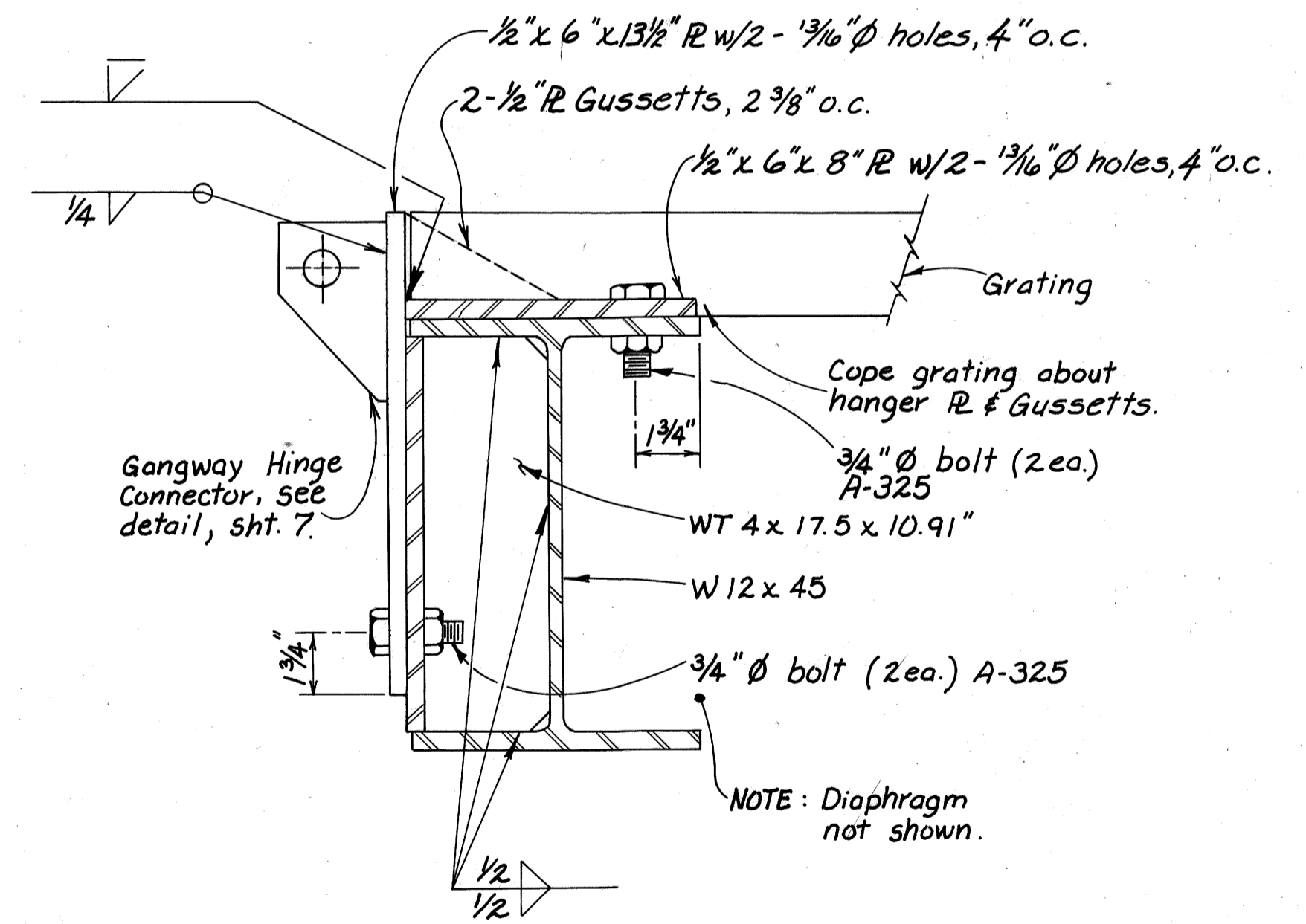
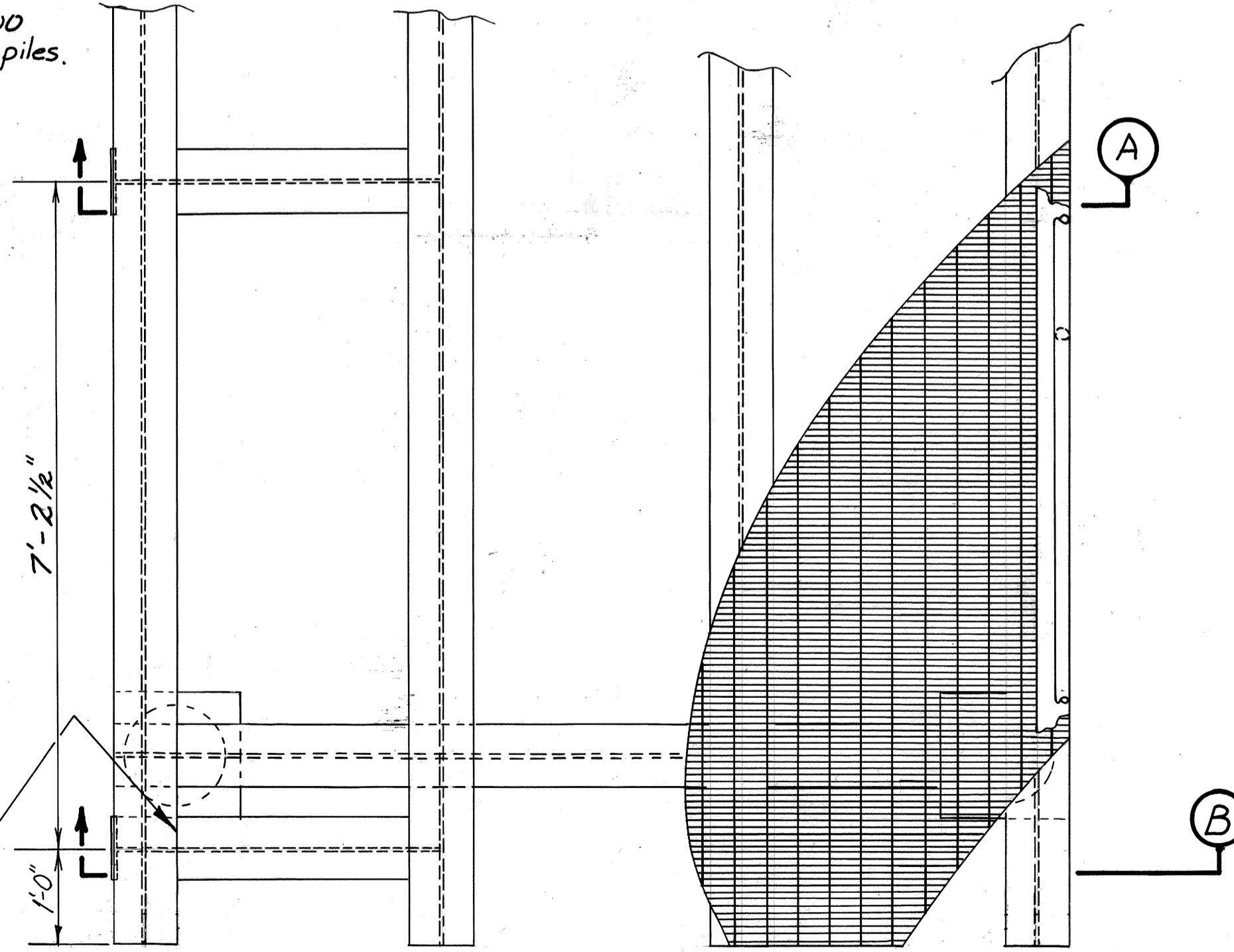


Approach piles driven to 20 tons bearing. estimated penetration 35' See Pile Driving Records

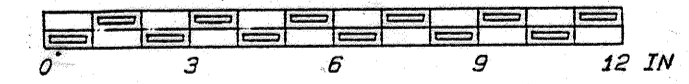
Cutting shoe APF 0-14000 or equal, typical all steel piles.



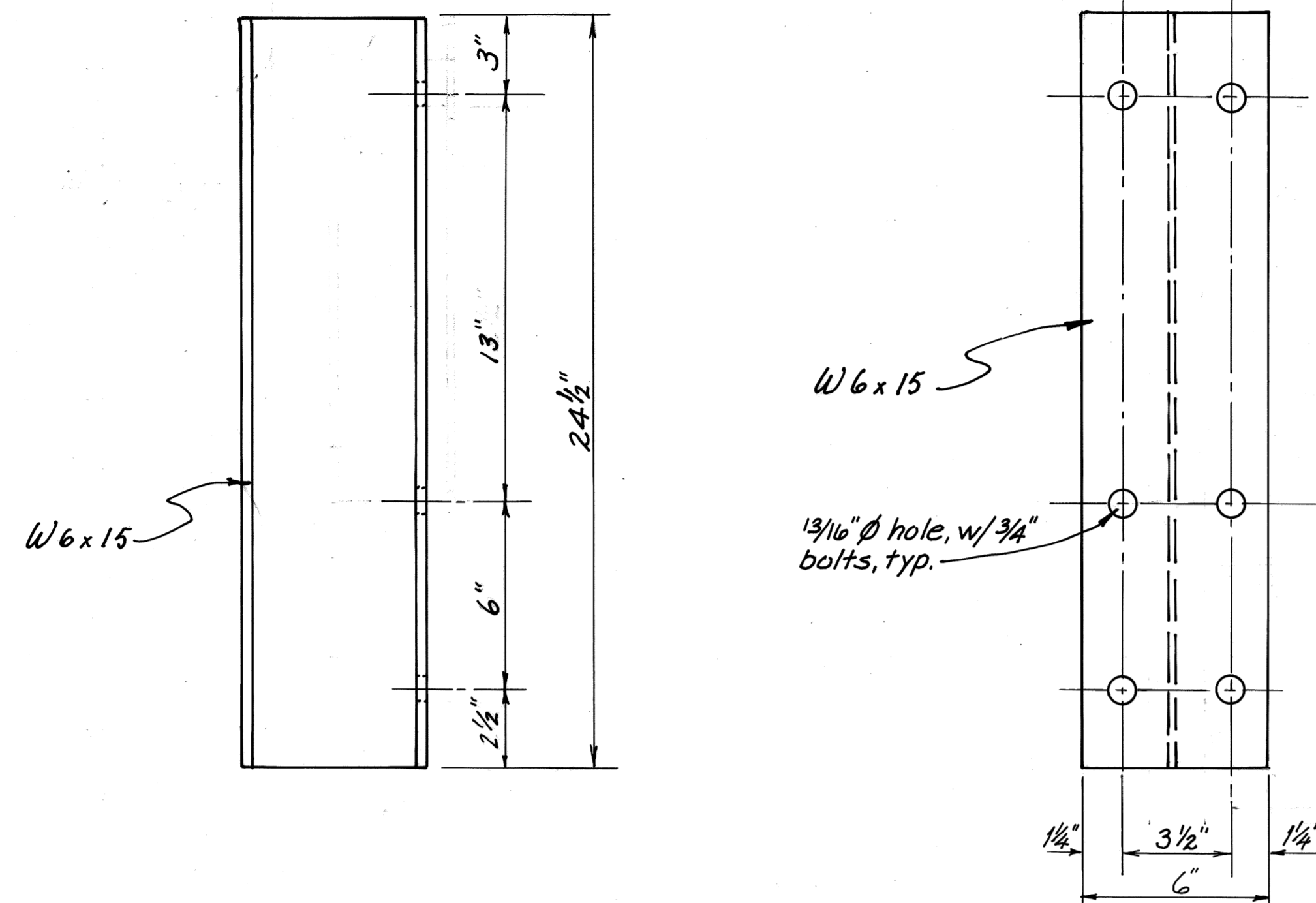
typ. @ top & bot. flange @ ea. end of beam.



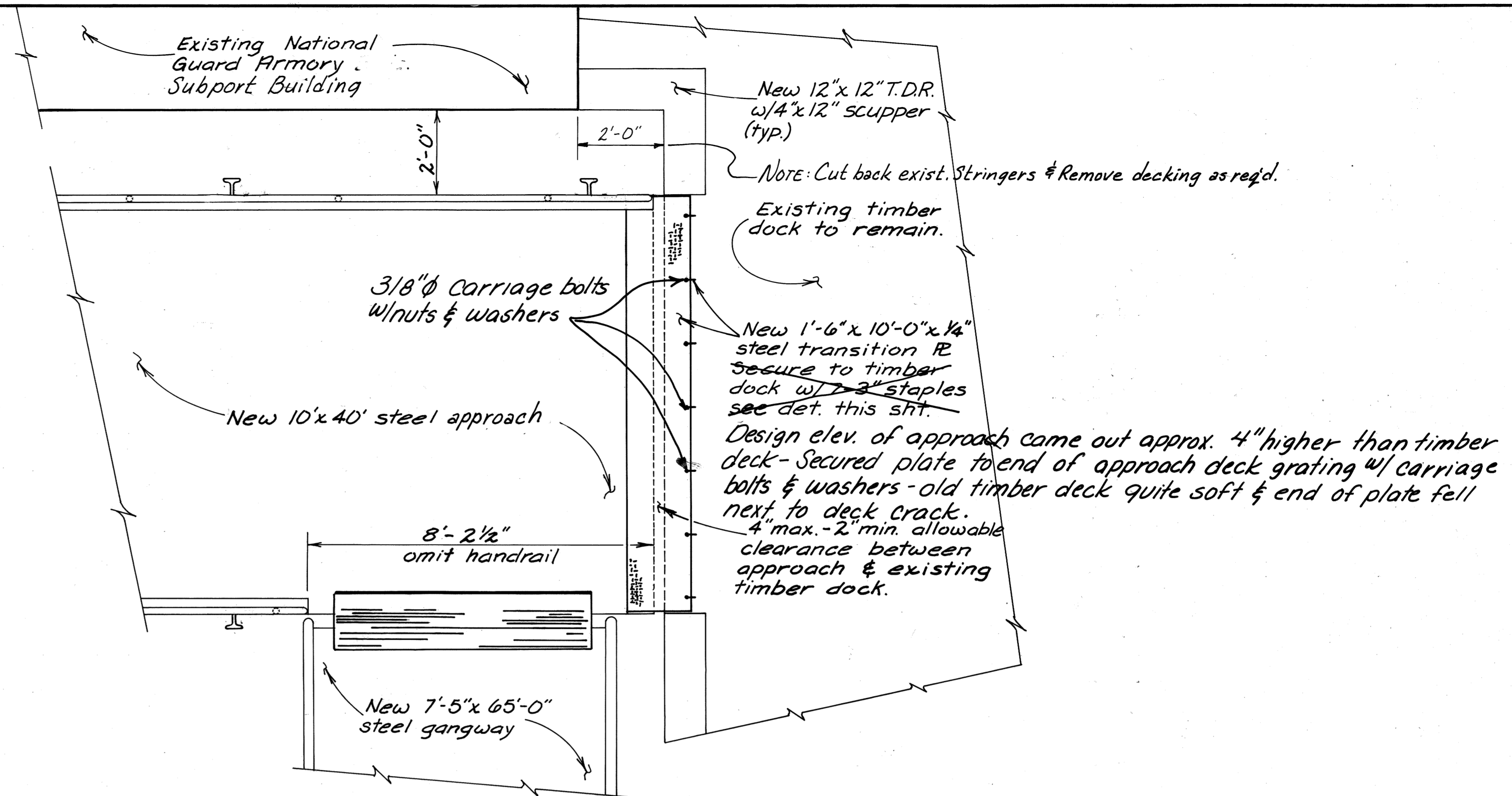
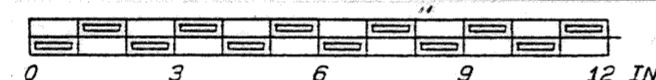
DETAIL "C"



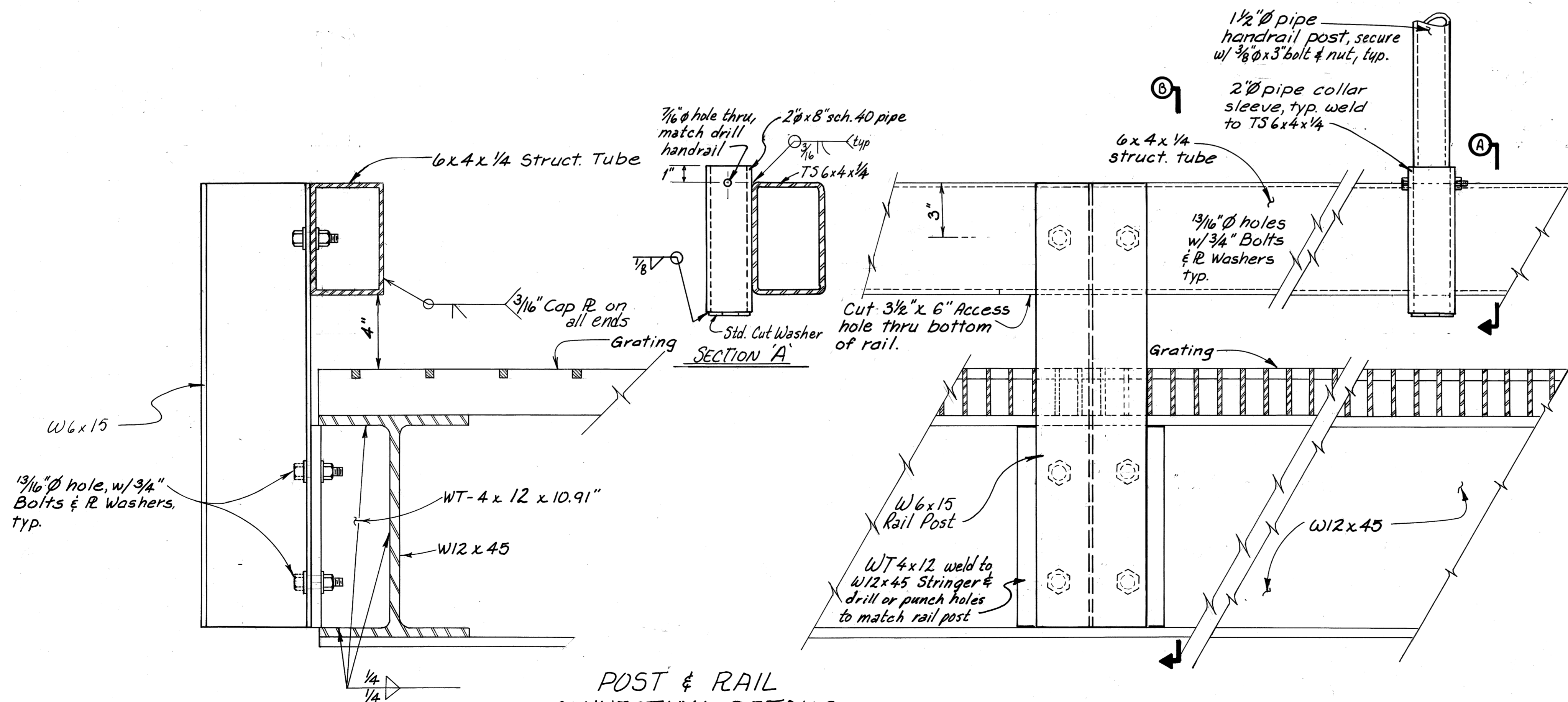
	DO NOT SCALE THIS DRAWING - USE DIMENSIONS			
	STATE OF ALASKA DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES			
JUNEAU		ALASKA		
40'-0" APPROACH				
DESIGNED R.B.	CHECKED RB/JDB	DRAWN M.C./WMD	DATE 3-'85	
PROJECT NUMBER 67822	SHEET 8		OF 12	



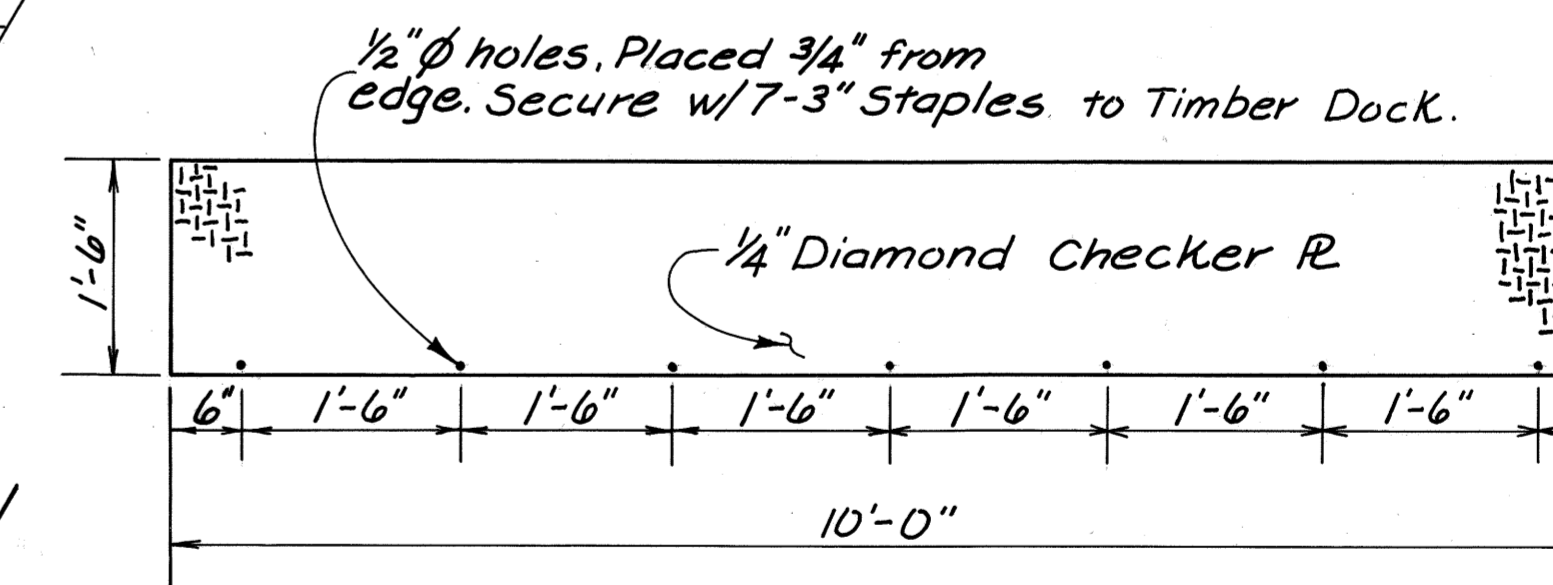
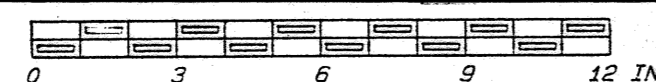
RAIL POST ELEVATIONS



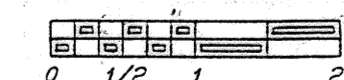
TRANSITION DETAIL



POST & RAIL CONNECTION DETAILS



TRANSITION PLATE APPROACH TO DOCK

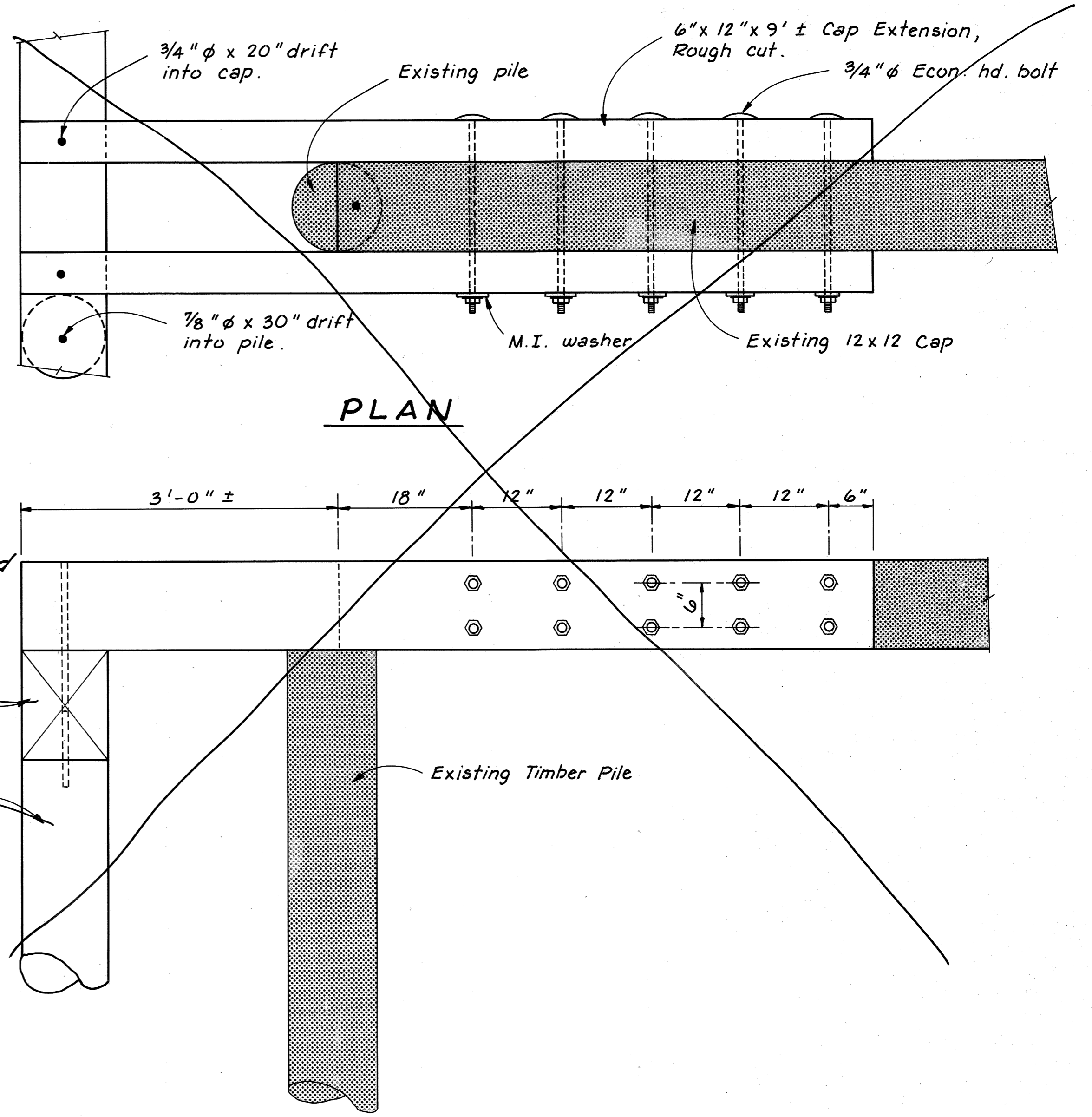


STAMP		DO NOT SCALE THIS DRAWING - USE DIMENSIONS	
STATE OF ALASKA DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES			
JUNEAU		ALASKA	
APPROACH DETAILS			
DESIGNED R.B.	CHECKED RB/JDB	DRAWN M.C./W.M.D.	DATE 3-'85
PROJECT NUMBER 67822	SHEET 9 OF 12		

New 12"x12" tiedown rail installed North face as per plan

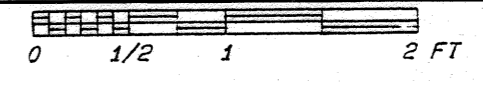
**WORK SUMMARY**

1. Install new timber pile bents 1, 2, 3, 4, 5, 6.
2. Install new 12"x16" Cap from Bent 1 to Bent 6.
3. Extend existing Caps at Bents 2, 4, 5 and 6. See detail this sht.
4. Cantilever existing caps at Bents 7, 8, 9, 10, 11.
5. Caps 1 and 3 to be cut off so that they bear on the new 12 x 16 cap.
6. Install new 8x12 Stringer from Bent 1 to Bent 11.
7. Install new 12x12 wheelguard and scupper blocks from Bent 1 to Bent 11.
8. Use existing decking from Bent 1 to Bent 11.
9. If existing timber piles 1 to 6 are undermined during dredging, they shall be removed. Piles not undermined - all piles from old dock removed had penetrations from 20' to 30'±



**ELEVATION**

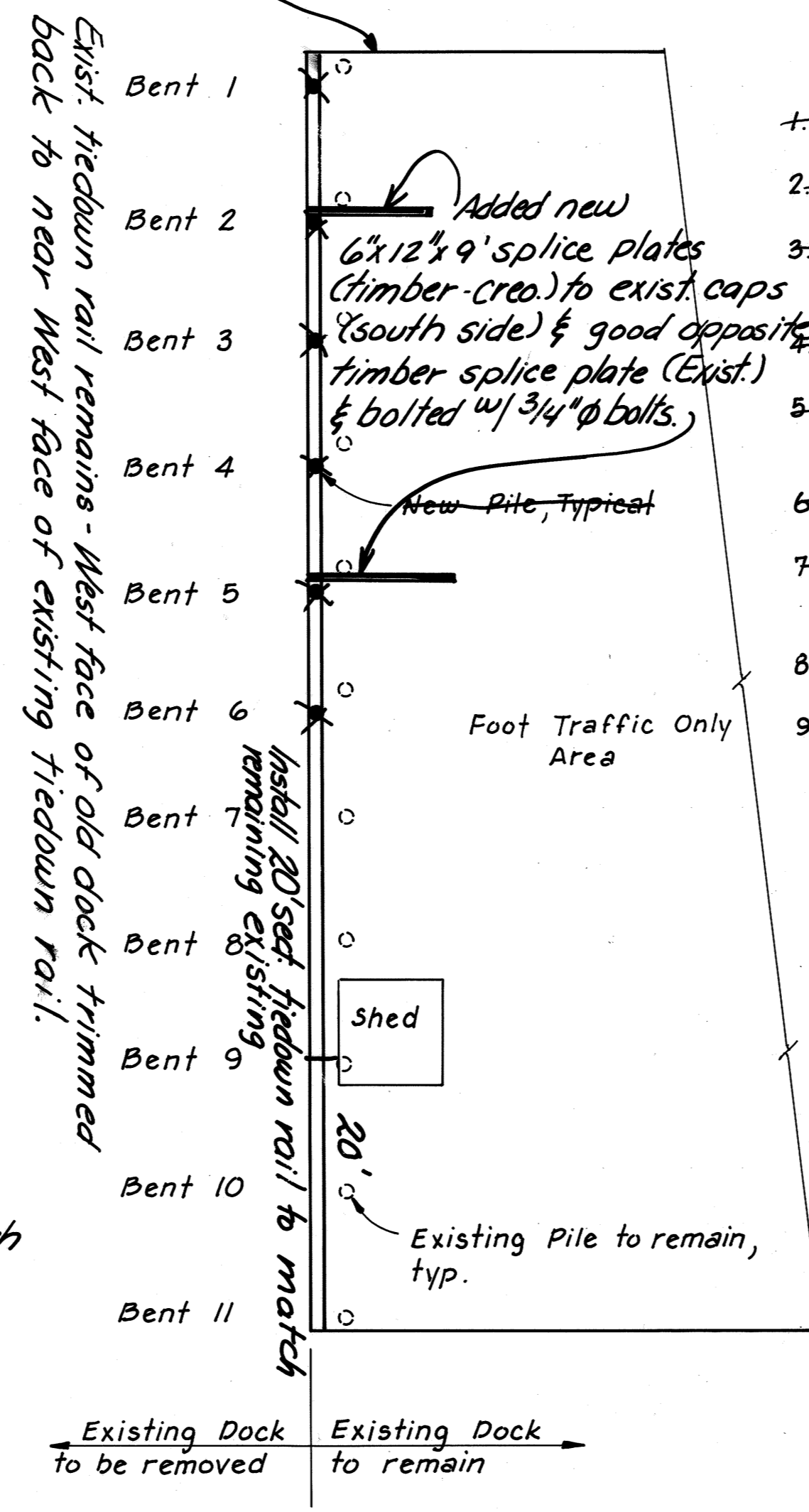
**EXISTING CAP EXTENSION DETAILS Deleted**



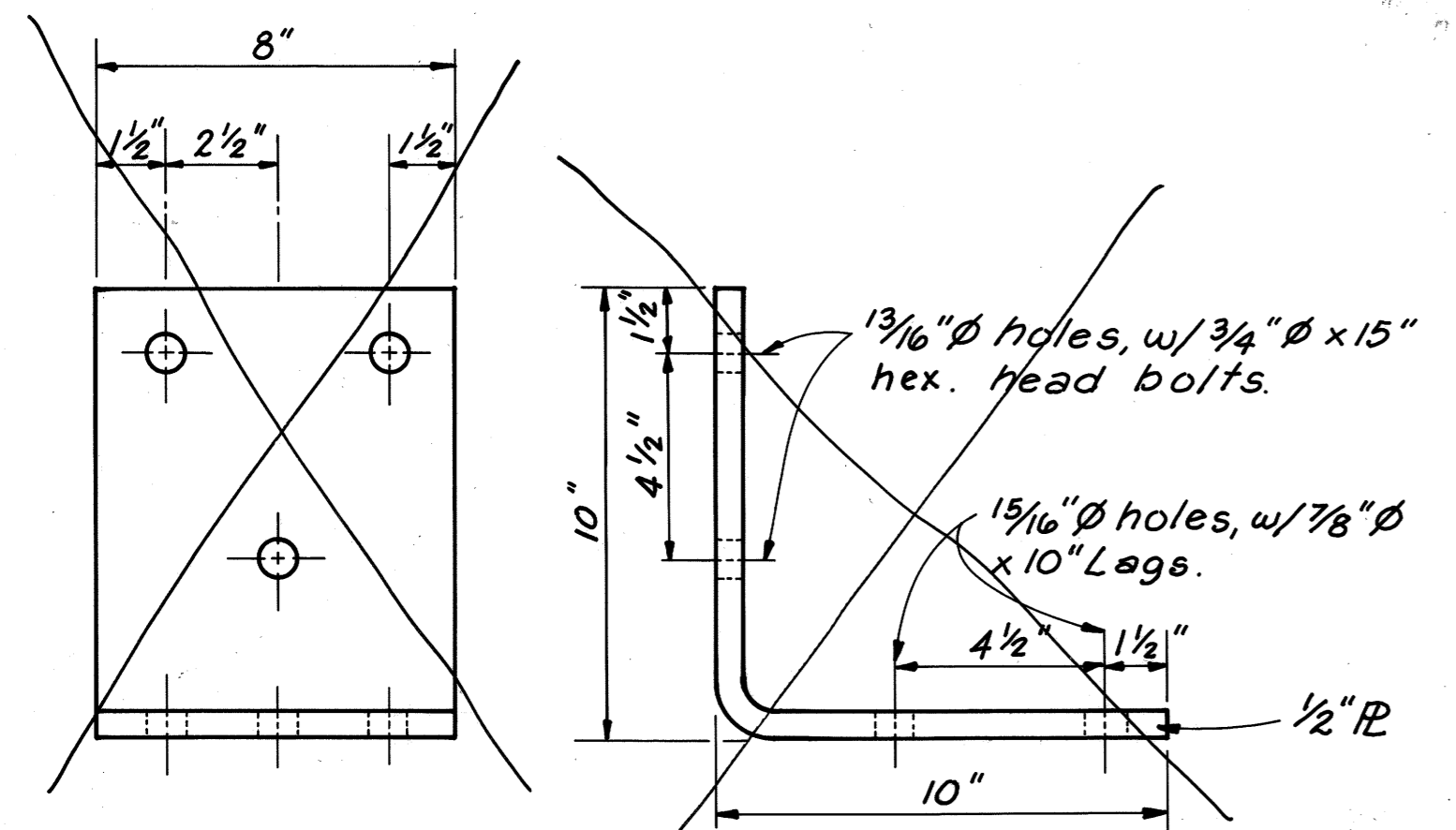
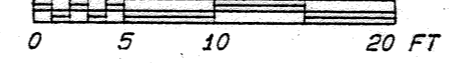
NOTE:

1. Four of the existing caps are spliced over the existing pile. Remove splice block and section of cap to be removed and extend existing caps as shown this sheet. Left as were.
2. Remainder of caps are continuous at end of removal section. Cut off cap where shown on the plans and treat cutoff per specs.

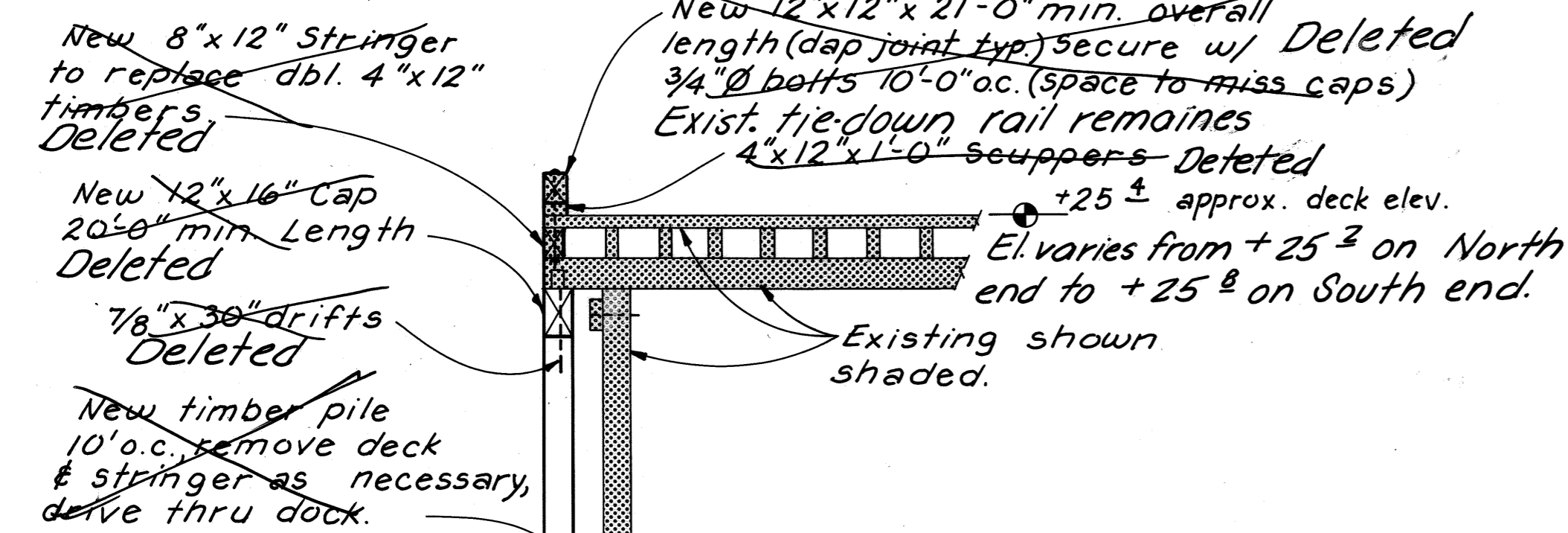
See Note 9 under Work Summary - Reason for deletion of this work - Also old dock in worse shape than previously thought & tearing into it to do this work would have created worse problems than leaving as is Work not necessary as this is a condemned dock.



**DOCK FACE RECONSTRUCTION**

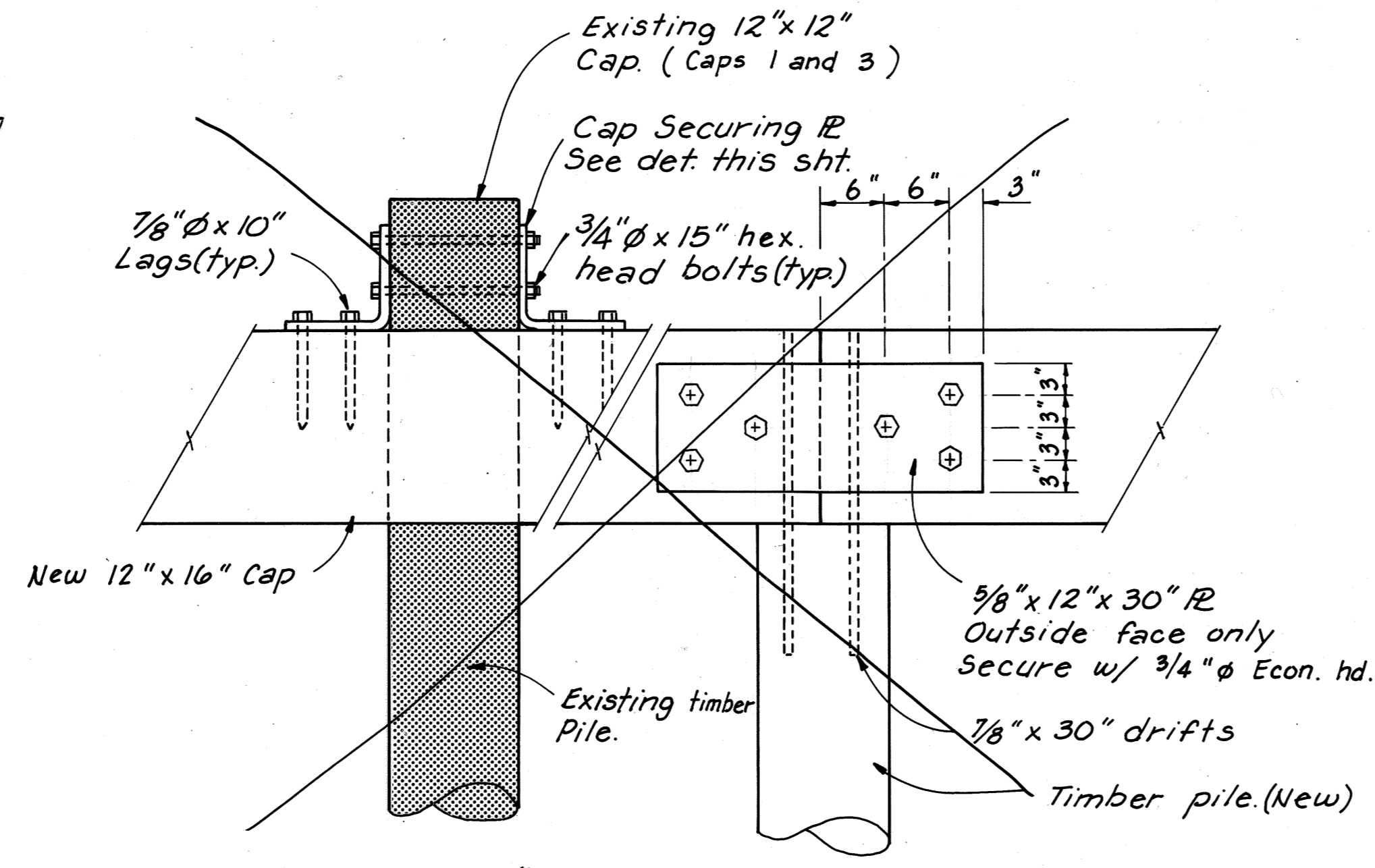


**CAP SECURING ~~RE~~ Deleted**

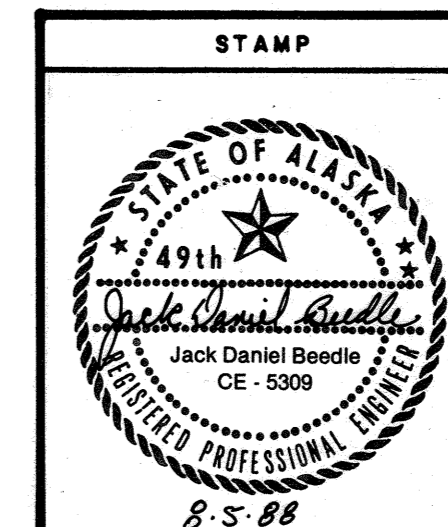
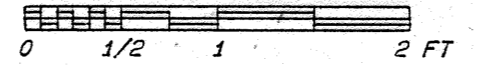


**ELEVATION**

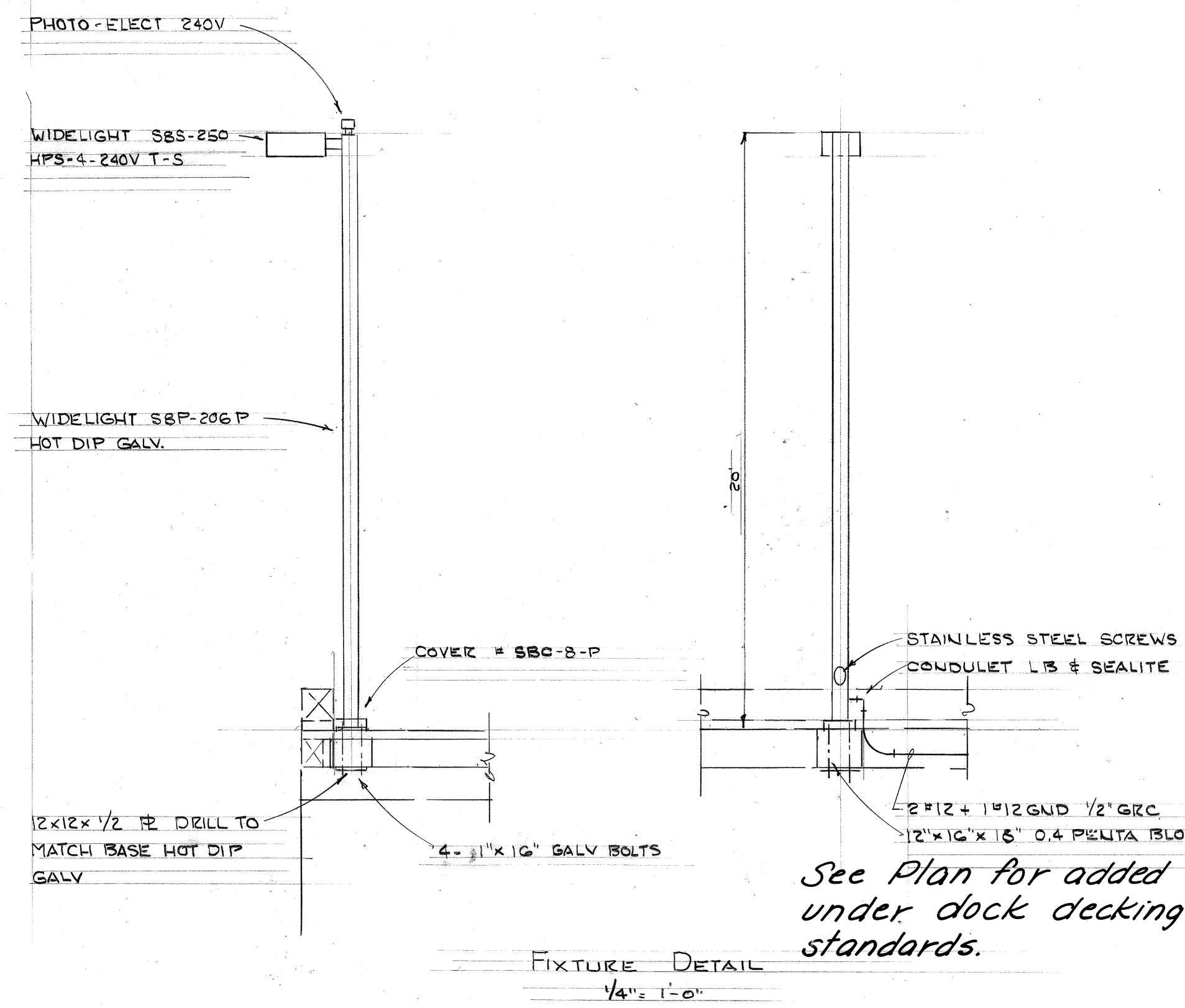
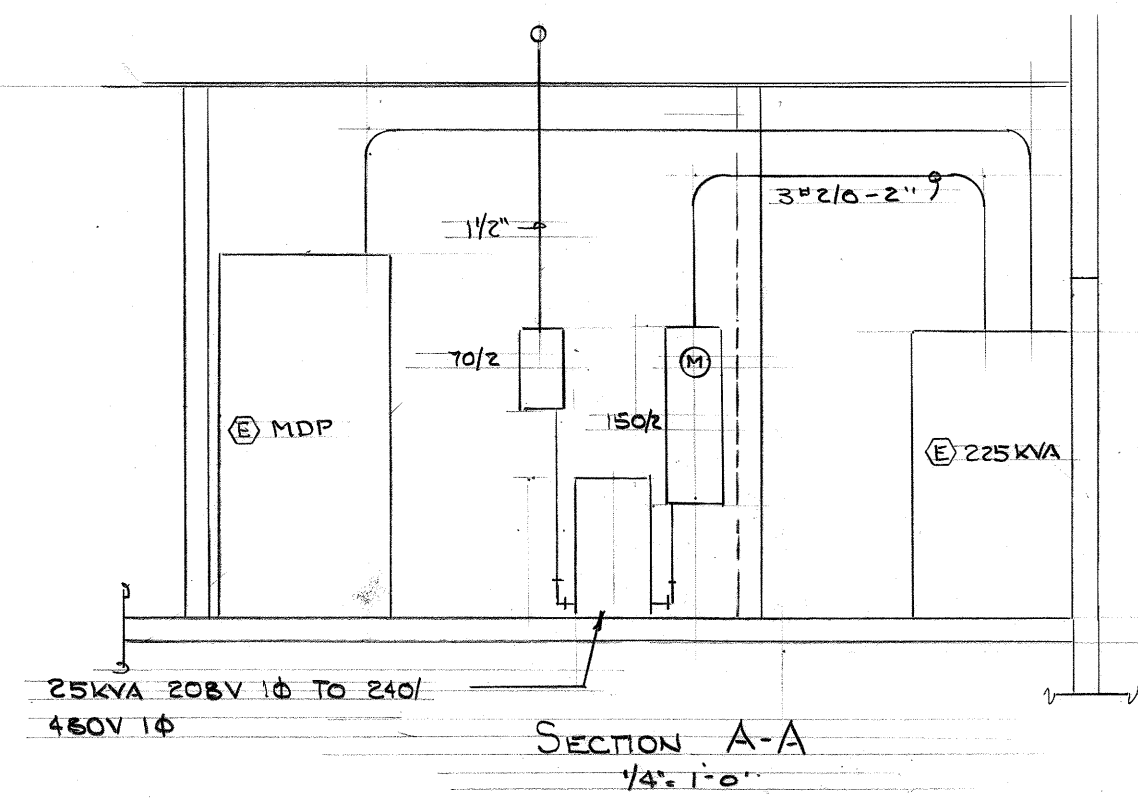
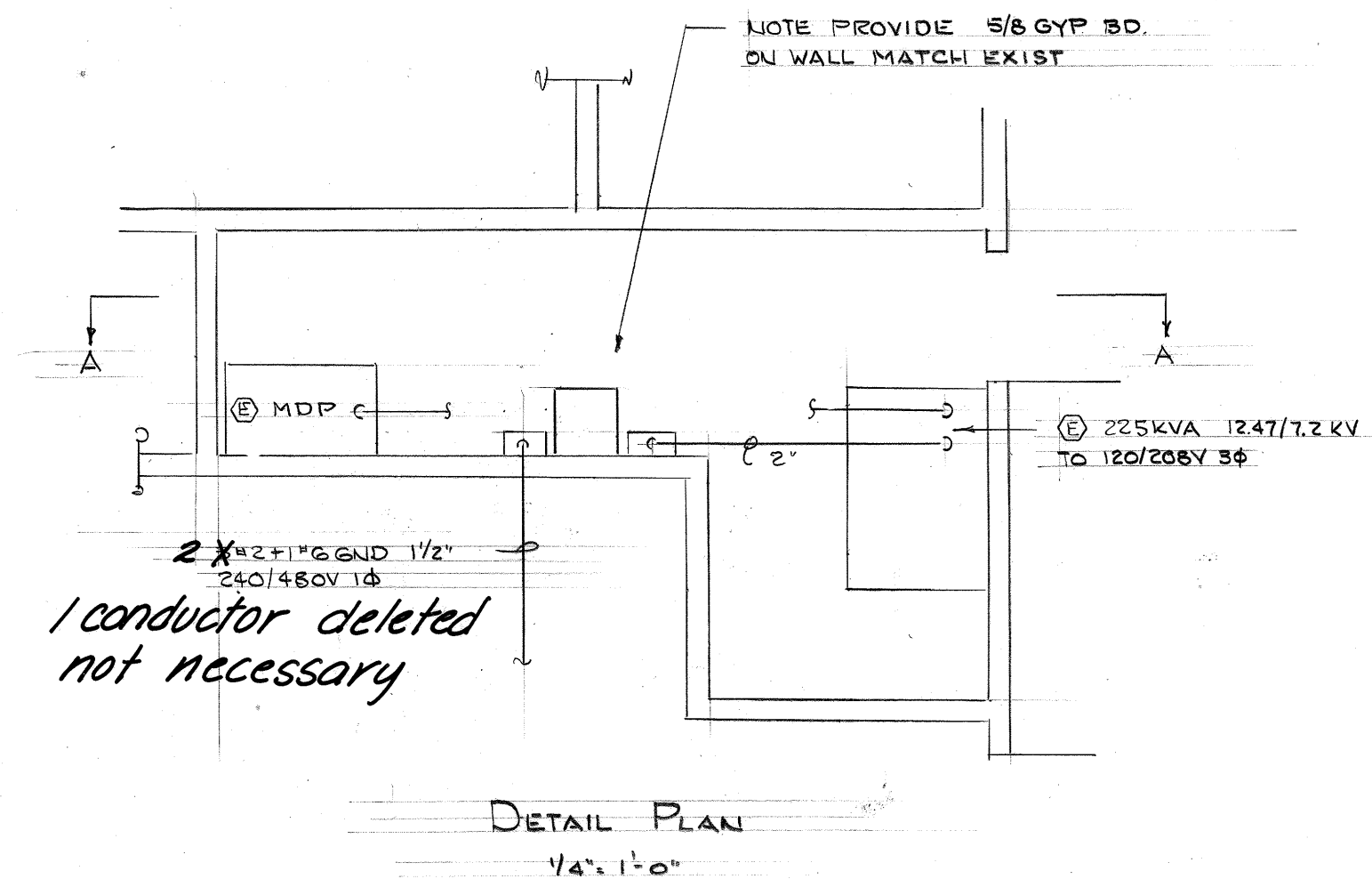
N7S



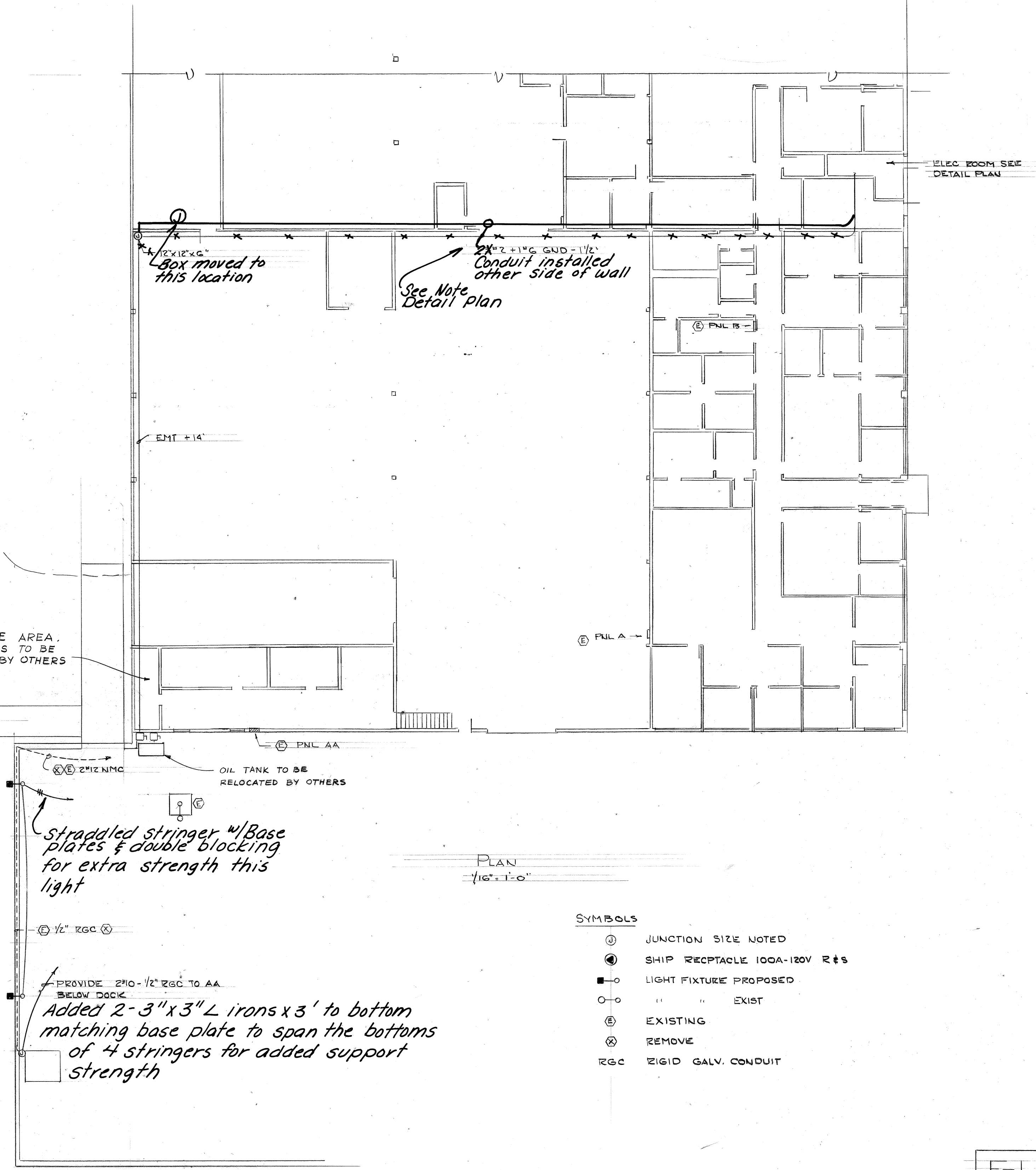
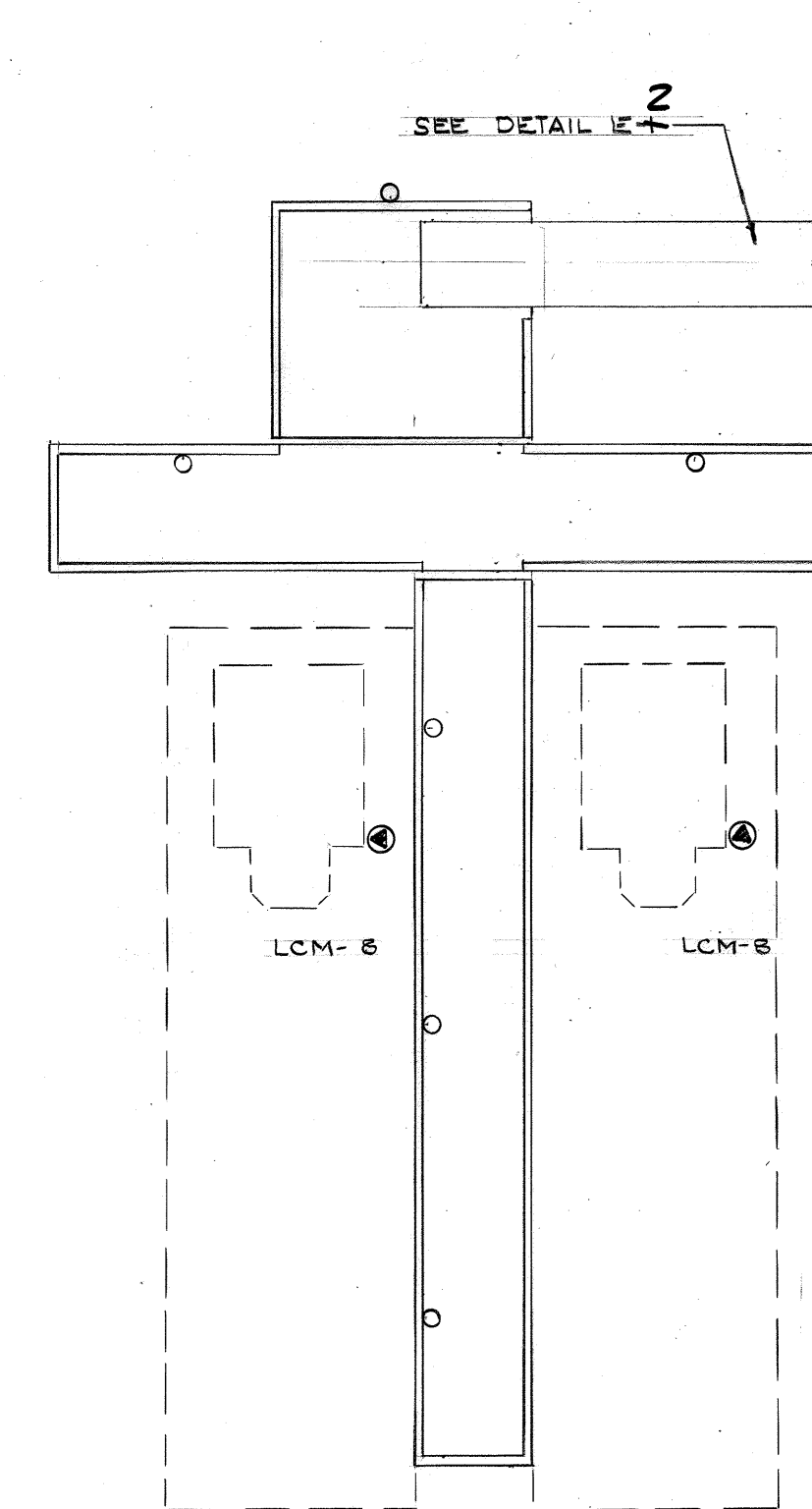
**CAP SPLICE DETAIL Deleted**



DO NOT SCALE THIS DRAWING - USE DIMENSIONS			
STATE OF ALASKA			
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES			
Juneau		Alaska	
<b>EXISTING DOCK MODIFICATIONS</b>			
DESIGNED <u>JDB</u>	CHECKED <u>Wm. N.</u>	DRAWN <u>TS</u>	DATE <u>6-88</u>
PROJECT NUMBER <u>67822</u>	SHEET <u>10</u> OF <u>12</u>		

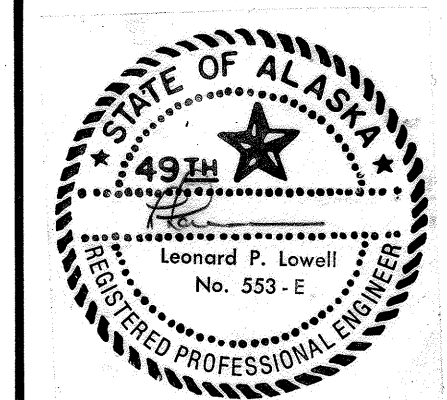


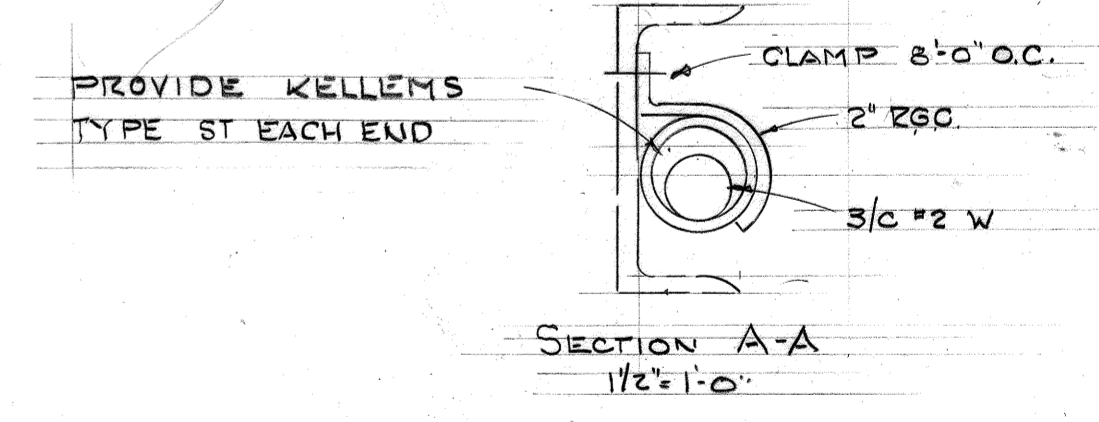
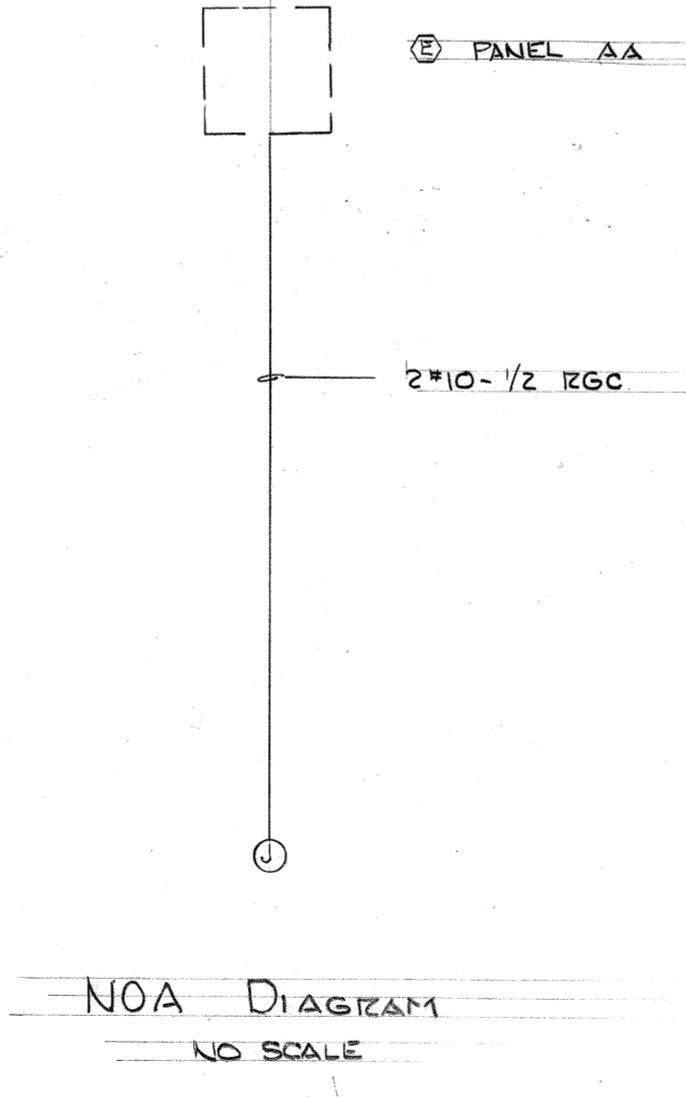
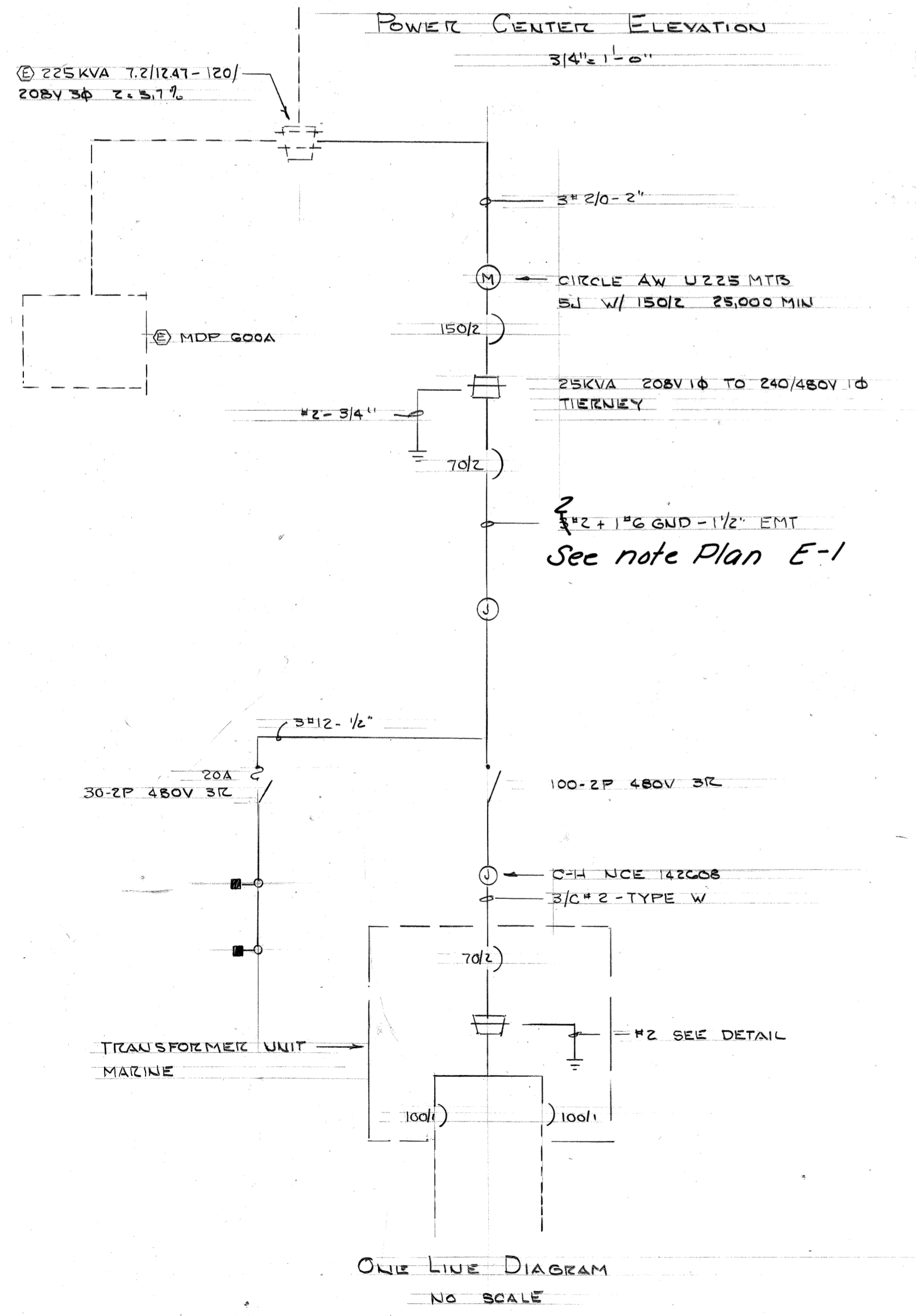
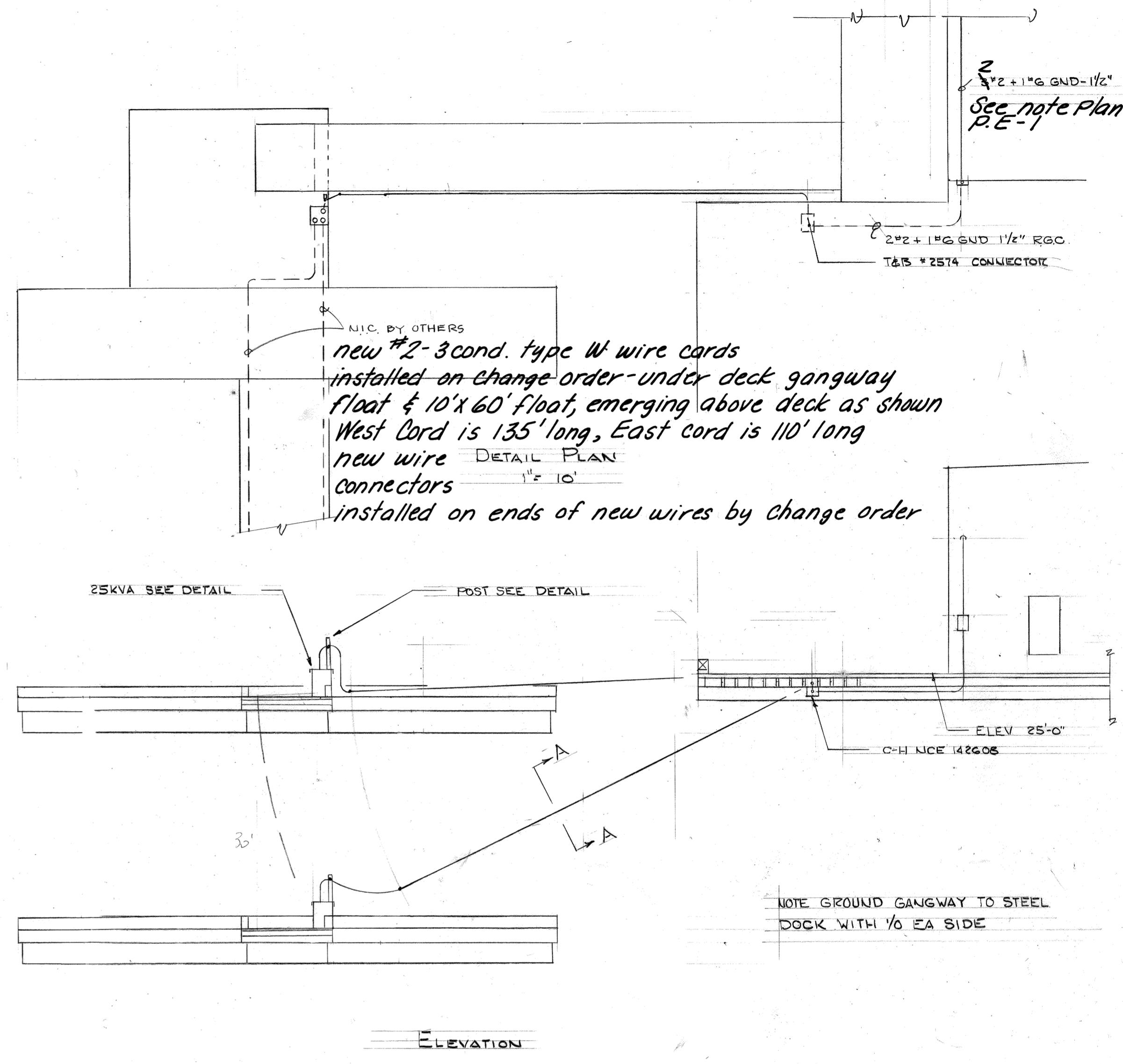
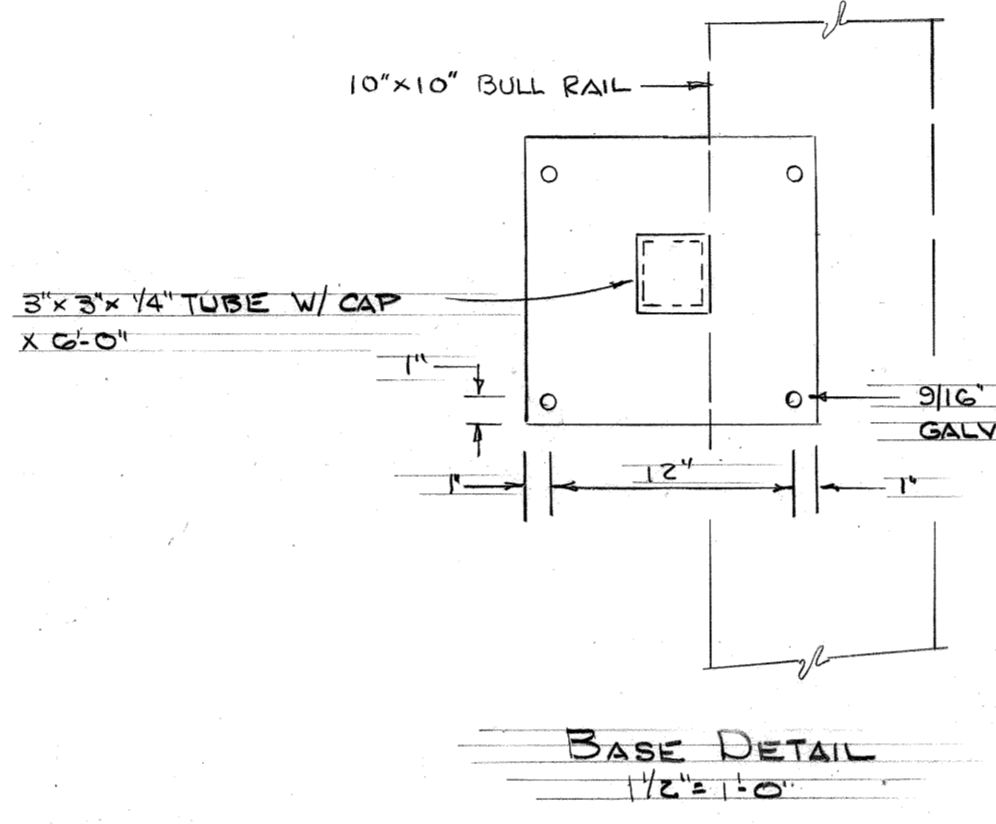
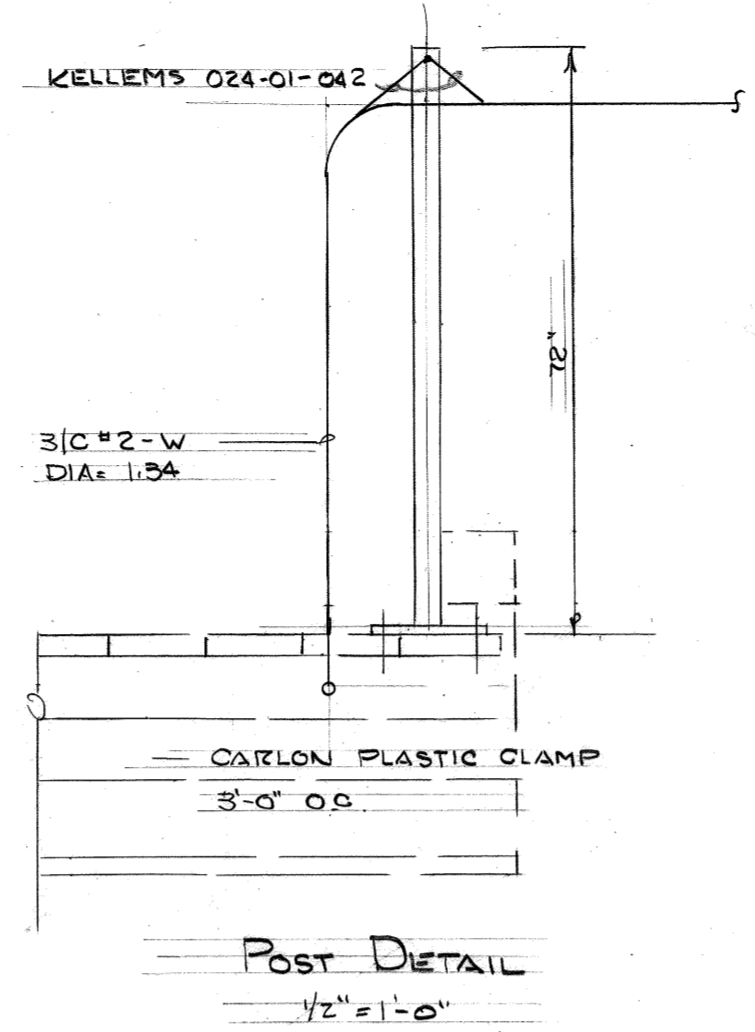
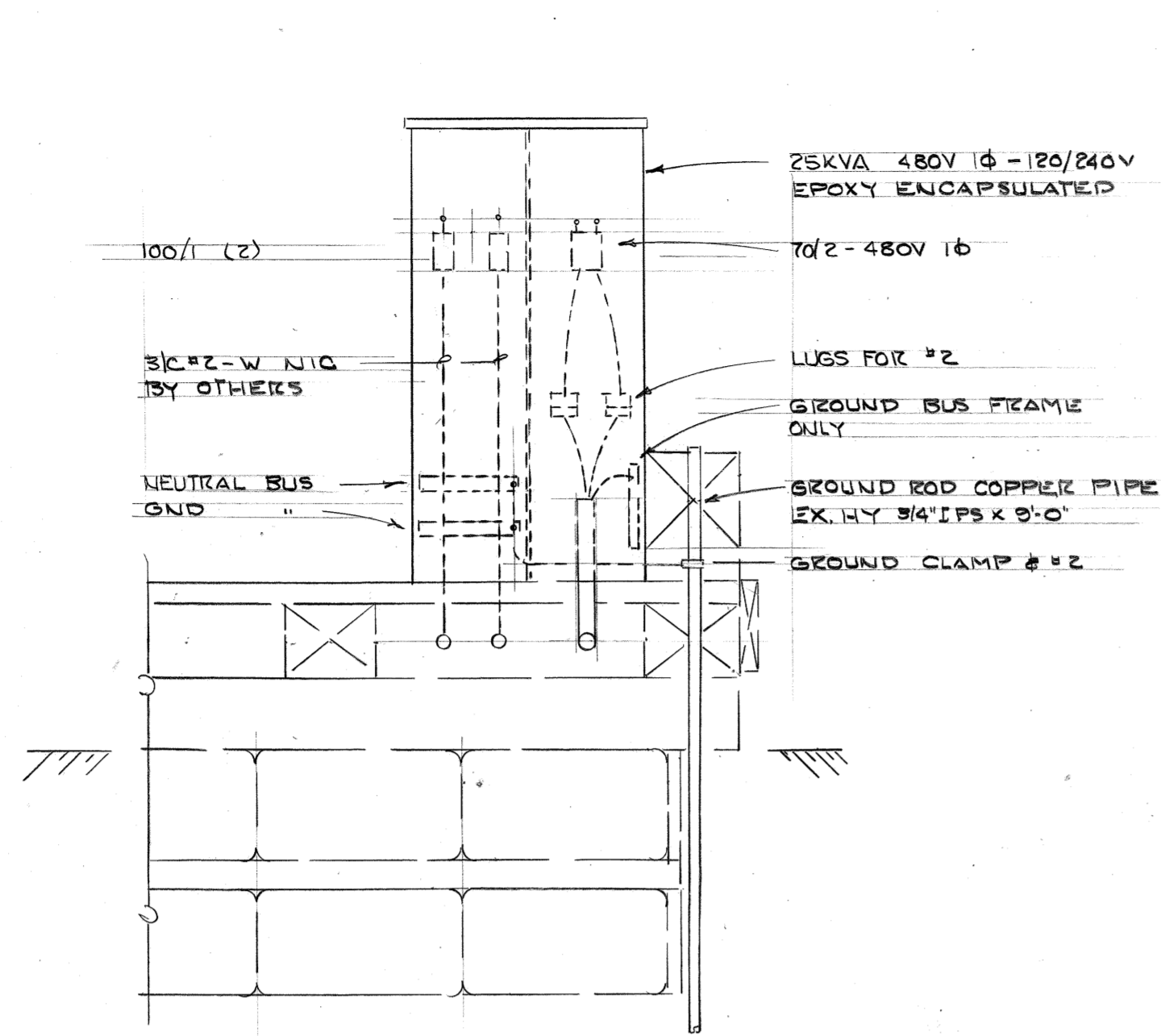
See Plan for added strength under dock decking for light standards.



- SYMBOLS
- ⊙ JUNCTION SIZE NOTED
  - ⊙ SHIP RECEPTACLE 100A-120V R#5
  - LIGHT FIXTURE PROPOSED
  - " " EXIST
  - ⊕ EXISTING
  - ⊗ REMOVE
  - ZGC ZIGID GALV. CONDUIT

STAMP		DO NOT SCALE THIS DRAWING - USE DIMENSIONS	
STATE OF ALASKA DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES			
JUNEAU		ALASKA	
ELECTRICAL LAYOUT & DETAILS			
DESIGNED LPL	CHECKED	DRAWN LPL	DATE MAY 85
PROJECT NUMBER 67822	SHEET 11		OF 12





	DO NOT SCALE THIS DRAWING - USE DIMENSIONS		
	STATE OF ALASKA DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES		
	JUNEAU	ALASKA	
	ELECTRICAL LAYOUT & DETAILS		
DESIGNED LPL	CHECKED	DRAWN LPL	DATE MAY 85
PROJECT NUMBER 67822	SHEET 12 OF 12		

E-2