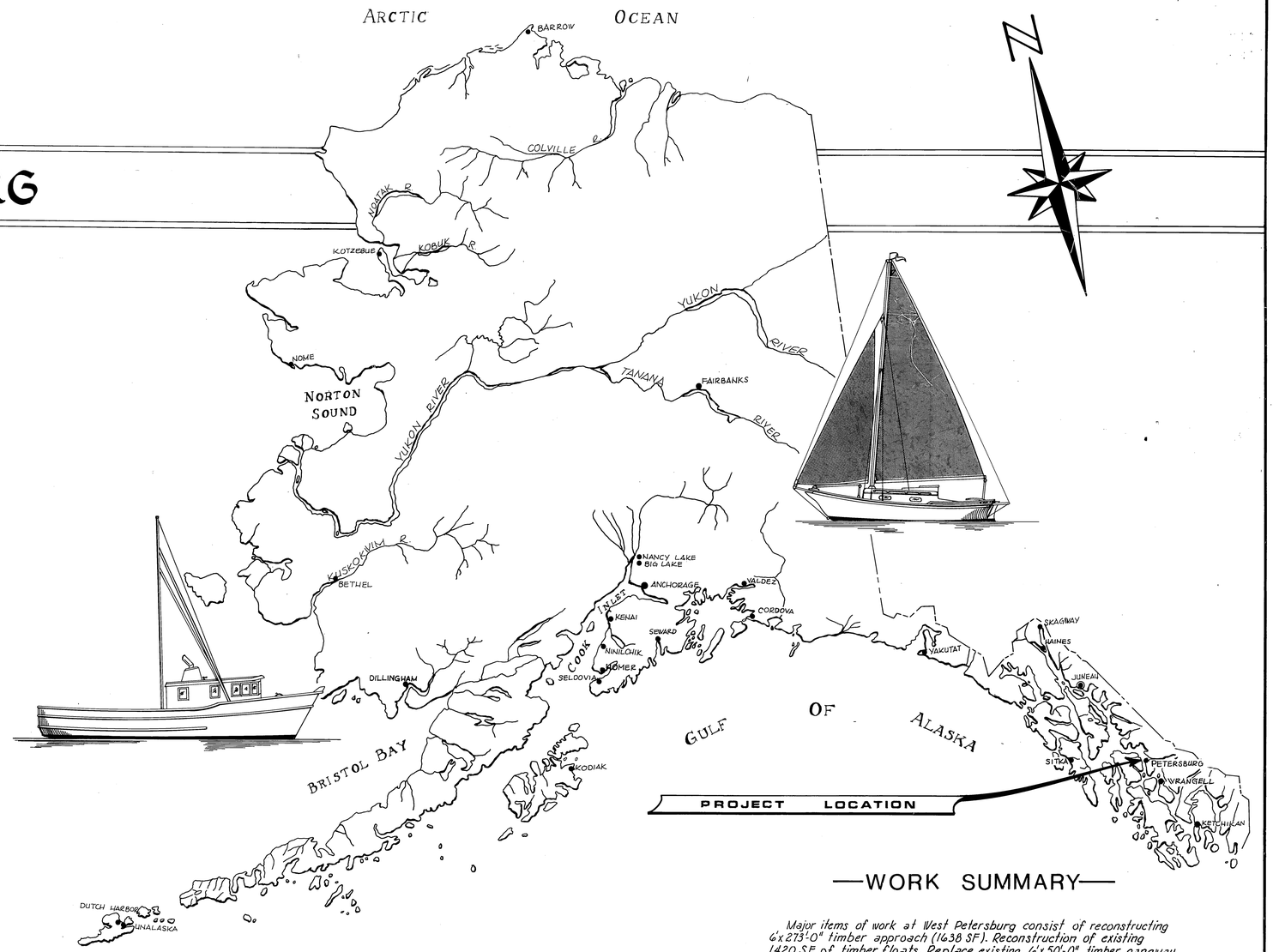
WEST PETERSBURG

FLOAT REPAIR

PROJECT NO. K30154



—WORK SUMMARY—

Major items of work at West Petersburg consist of reconstructing 6'x273'-0" timber approach (1638 SF). Reconstruction of existing 1420 S.F. of timber floats. Replace existing 6'x50'-0" timber gangway with a new 6'x50'-0" steel gangway.

AS-BUILT
Date: 8-20-80
Division of Harbor Design and Construction

INDEX TO SHEETS

STATE OF ALASKA

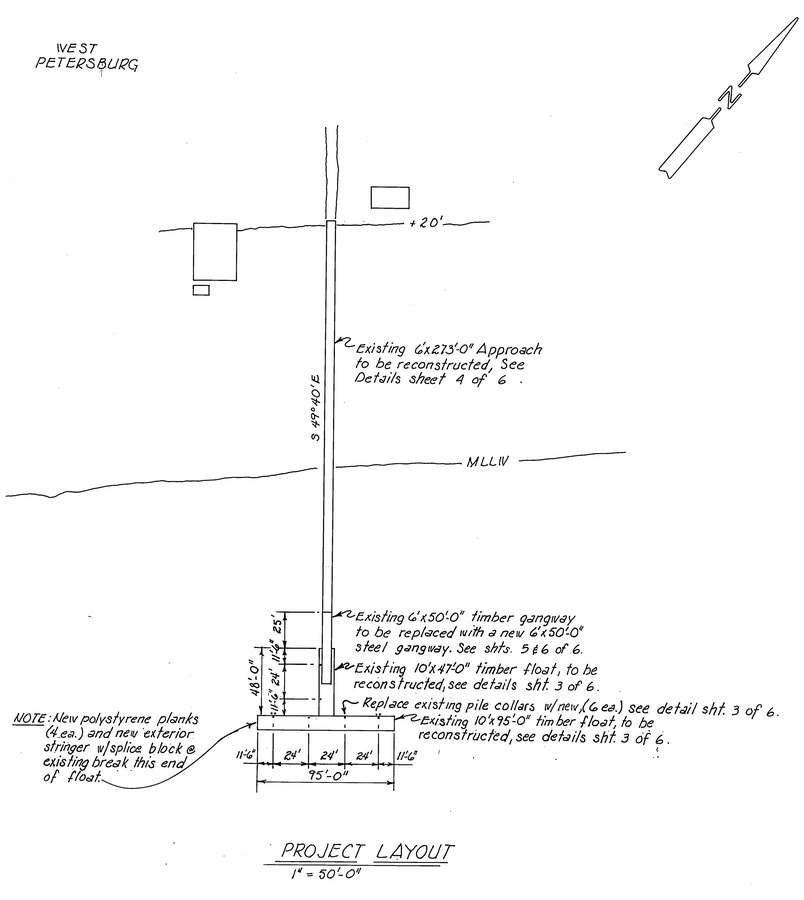
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES

DIVISION OF HARBOR DESIGN & CONSTRUCTION

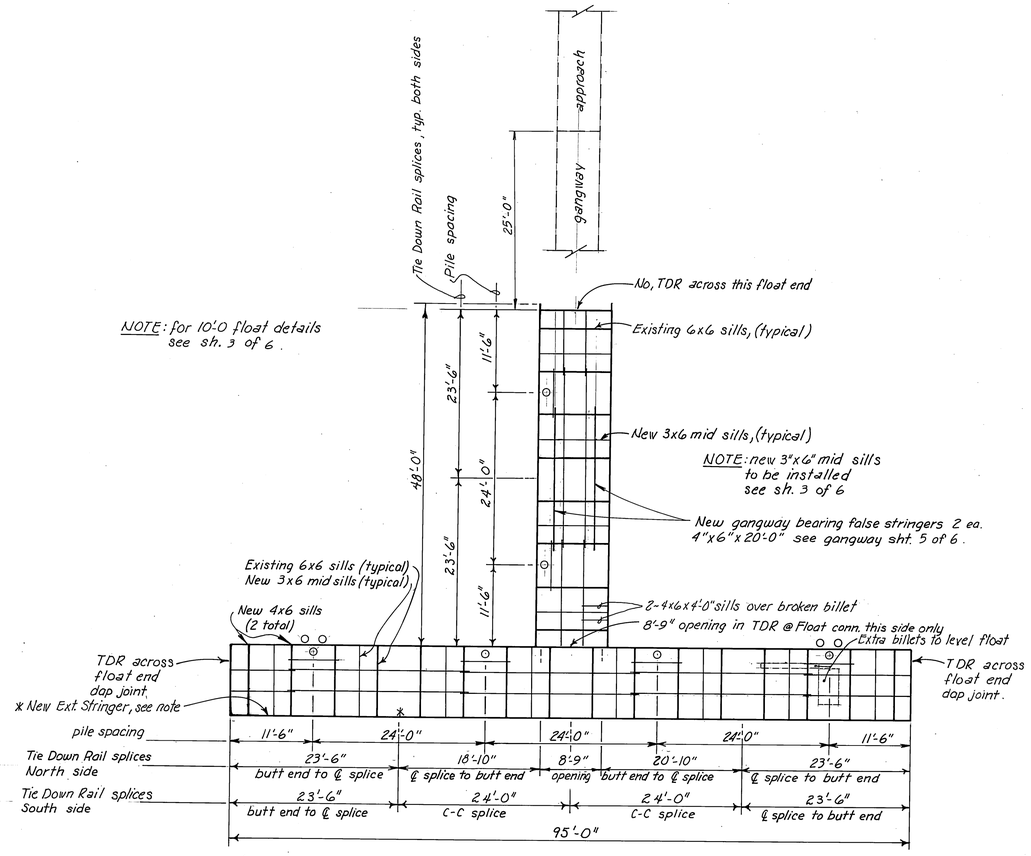
APPROVED
Wm Stutler
DATE 1/7/80

SHEET 1 OF 6

KAE 19 1153 3-78 MC 7738*



PROJECT LAYOUT
1" = 50'-0"



STRINGER DIAGRAM
1" = 10'-0"

PROJECT SCOPE - WEST PETERSBURG

1. Reconstruct Existing Timber Floats - 1420 SF.
   - New 2"x10" decking
   - New 8"x8" tie down rail
   - New tie down rail scupper blocking
   - New 10"x20"x9'-0" polystyrene planks (4 total)
   - * New 6x8x26'-0" Exterior Stringer to replace existing broken stringer, field splice w/new splice block (4'x6'x6'-0")
   - New steel internal pile collars
   - Replace existing ¾"; tie down rail, exterior stringer, to sill bolts with new ¾" bolts as detailed on typical 10'-0" float sh. 3 of 6.
   - New 3x6 mid sills @ each pontoon (12 each).
2. Reconstruct Existing Timber Approach - 1638 SF
   - New 2"x10" decking
   - New handrail, handrail posts, and girts
   - New X-bracing between bents #3 & #4, 4 ea. @ 20'±
3. Replace Existing 6'x50' Timber Gangway with new 6'x50' Steel Gangway

STAMP

STATE OF ALASKA
49th
Harold R. Moeser
No. 4373-E
REGISTERED PROFESSIONAL ENGINEER

DO NOT SCALE THIS DRAWING – USE DIMENSIONS

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
DIVISION OF HARBOR DESIGN AND CONSTRUCTION

WEST PETERSBURG ALASKA

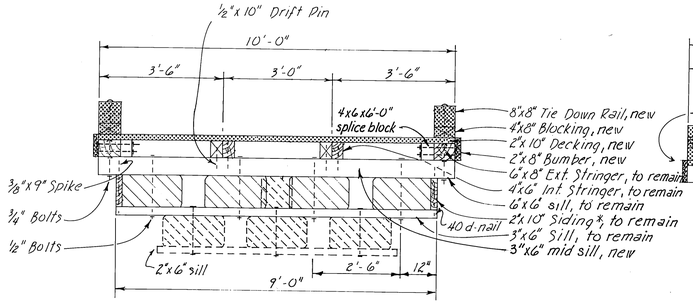
PROJECT LAYOUT

SCALE As Noted	SURVEYED	APPROVED ROBERT P. BECK, CHIEF OF DESIGN
DESIGNED	DRAWN G.R.F.	
CHECKED	DATE Dec. 1979	
PROJECT NUMBER K30154	SHEET 2 OF 6	

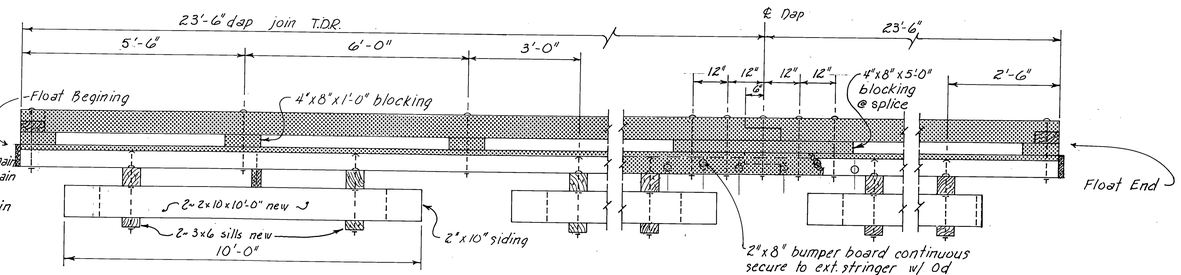
MATERIALS

ITEM	DRESSING	TREATMENT
3"x6" & 6"x6" Upper Sill	S-4-S	Creosote
* 2"x10" Siding	1½"x10½" S4S	"
3"x6" & 2"x6 Lower Sill	S-4-S	"
4"x6" Interior Stringers	S-4-S	"
6"x8" Exterior Striners	S-4-S	"
2"x8" Bumpers	S-4-S	Penta
6"x6" Collar Stringers	S-4-S	Creosote
2"x10" Decking	Milled	Penta
4"x8" Blocking	S-4-S	"
8"x8" Tie Down Rail	S-4-S	"
		(See Spec's)

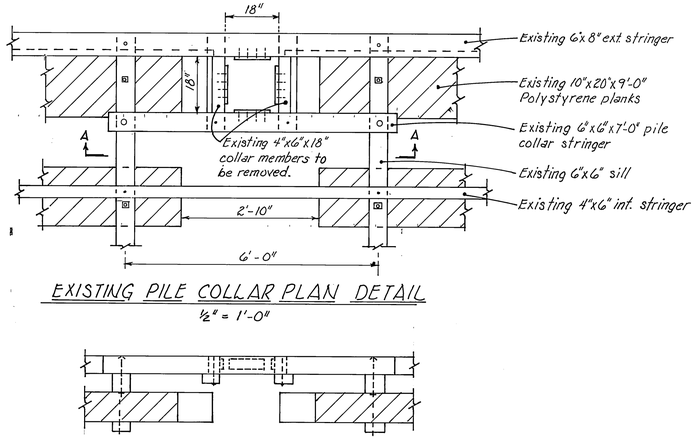
* Exact width to conform to width of floatation material
All material to be, no. 1 grade Hem./Fir, 10% max. no. 2 grade.



SECTION
½" = 1'-0"



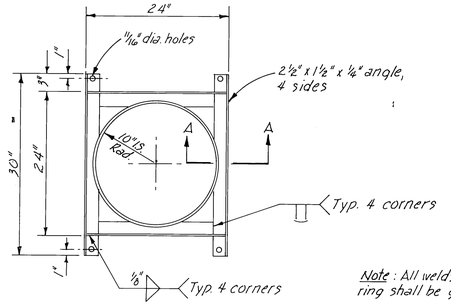
ELEVATION
½" = 1'-0"



EXISTING PILE COLLAR PLAN DETAIL
½" = 1'-0"

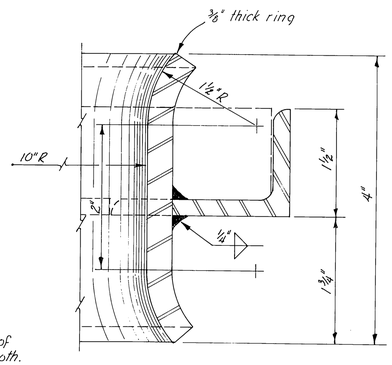
SECTION A-A

EXISTING PILE COLLAR SECTION DETAIL
½" = 1'-0"



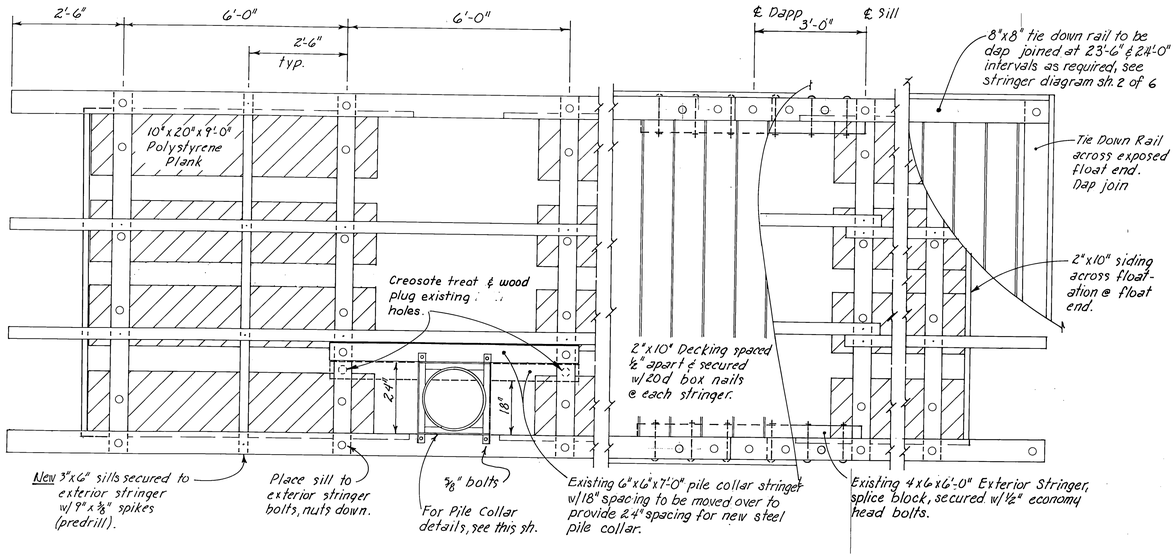
PLAN
1" = 1'-0"

Note: All welds on inside of ring shall be ground smooth.



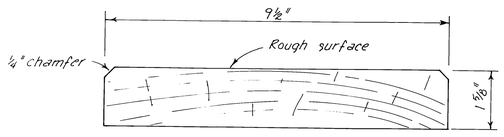
SECTION A-A
FULL SIZE

NEW INTERNAL PILE COLLAR DETAIL



PLAN
½" = 1'-0"

Note:
4-new 10"x20"x9'-0" Polystyrene planks on S.W. end of 95'-0" float. Install 2x10 siding @ each end, 95'-0" float



MILLED DECKING DETAIL
½ SIZE

PREDRILLED BOLT HOLES

Collar Members - all holes
Sills - Holes for floatation plank bolts
Stringers - holes for stringer to sill bolts
Tie Down Rail - all holes

FIELD DRILLED BOLT HOLES

Pile Collar Int. Stringers - all holes
Rail Blocking - all holes
Exterior Stringer - 1. holes for tie down rail bolts
2. holes for pile collar plate bolts

NOTES:
All hardware to be hot-dipped galvanized. A malleable iron washer shall be placed between all nut and wood surfaces. All bolts to be of the economy head type. Bolt holes to be drilled 1/16" oversize except sill bolt holes for floatation planks, ⅛" oversize. Drift holes to be drilled, 1/16" undersize. All field drilled holes shall be treated with hot creosote oil. All pressure treated material shall be cut to size prior to treatment. Tie Down rails shall extend across all float ends except under gangway's. All bolt heads facing decking shall be countersunk ¼" previous to treatment. Field drill all drift bolt holes. A barrier of 6 mil black polyethylene shall be placed between the contact surfaces of all creosote timber and floatation material (except float siding members.) Nail holes in existing stringers to be given a flood coat of hot creosote oil prior to installation of new decking.

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Harold R. Moeser
No. 4373-E
REGISTERED PROFESSIONAL ENGINEER

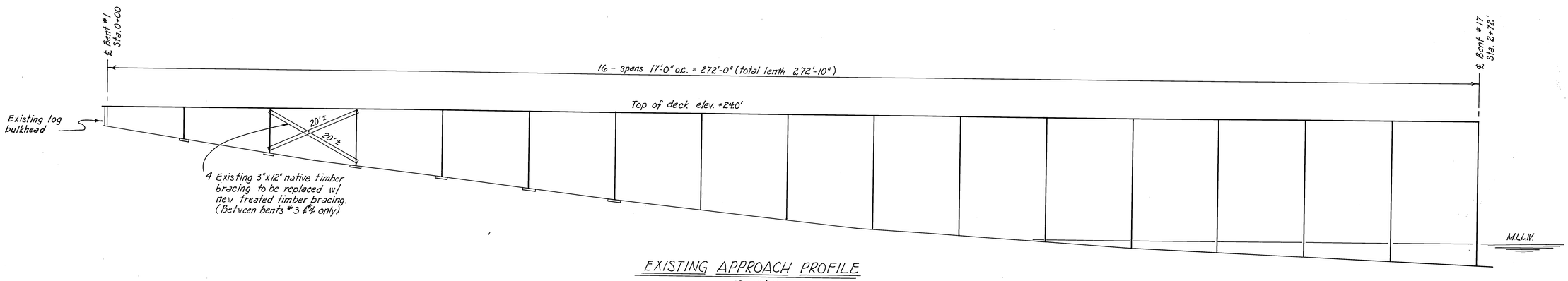
DO NOT SCALE THIS DRAWING – USE DIMENSIONS

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
DIVISION OF HARBOR DESIGN AND CONSTRUCTION

TYPICAL 10'-0" FLOAT
(SHOWING EXISTING & NEW WORK)

SCALE As Noted	SURVEYED	APPROVED
DESIGNED	DRAWN GRF	ROBERT P. BECK
CHECKED	DATE Jan. 1979	CHIEF OF DESIGN
PROJECT NUMBER K30154	SHEET 3 OF 6	

K&E 19 1153 3-78 MC 7738



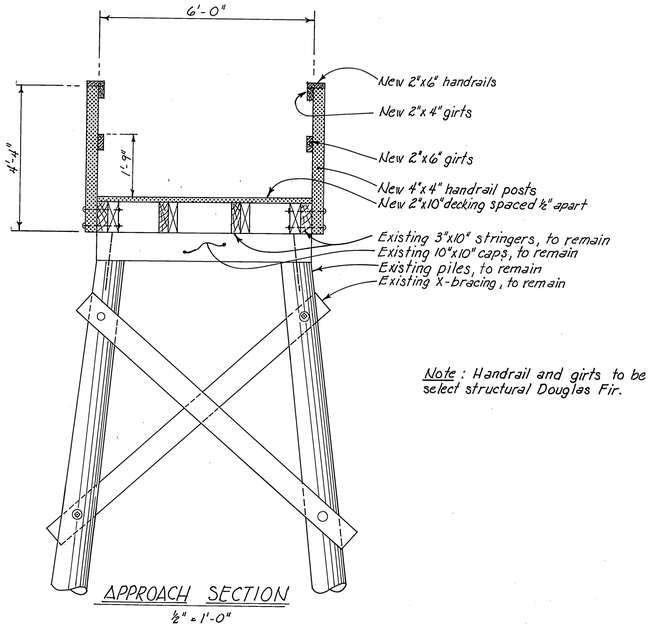
EXISTING APPROACH PROFILE

1" = 10'-0"

Notes

1. All hardware to be hot dip galvanized. A malleable iron washer shall be placed between all nut and wood surfaces.
2. All bolts to be of the economy head type. Bolt holes to be 1/16" oversize.
3. Drift holes to be 1/16" undersize.
4. All pressure treated materials to be cut to size prior to treatment.
5. All field cuts or field drilled holes shall be treated with hot creosote oil or pentachlorophenol, as applicable.
6. All nail holes in creosote material shall be given a flood coat of hot creosote oil prior to installation of new decking.

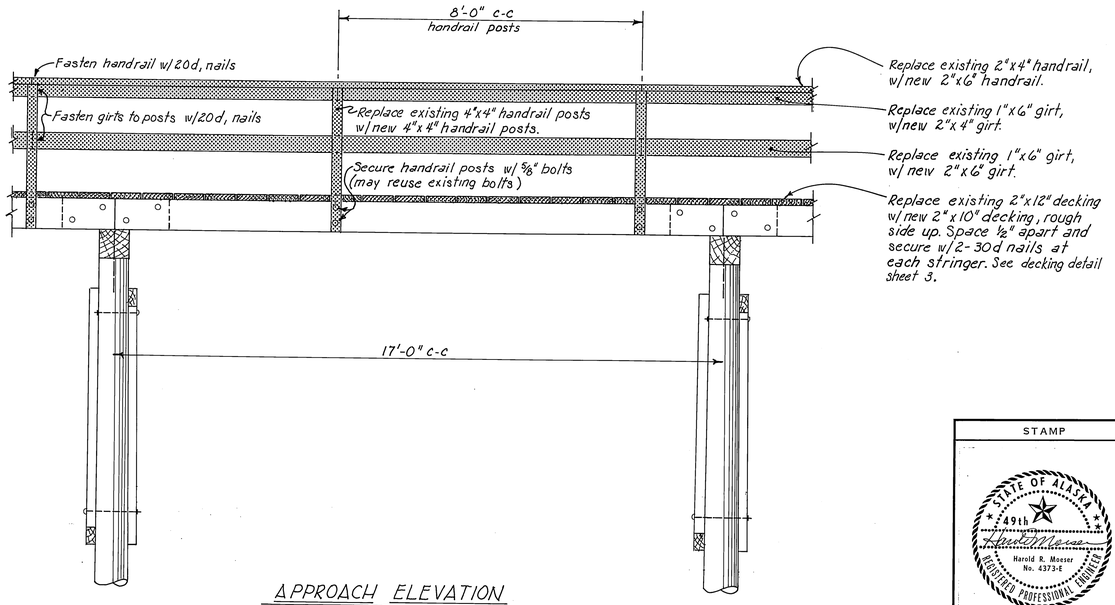
MATERIALS			
ITEM	DRESSING		TREATMENT
Decking	Milled		Penta.
Handrail	S-4-S		"
Handrail Post	"		"
Girts	"		"
Bracing	"		Creosote
			See Spec.'s



Note: Handrail and girts to be select structural Douglas Fir.

APPROACH SECTION

½" = 1'-0"



APPROACH ELEVATION

½" = 1'-0"

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49th
Harold R. Moeser
No. 4373-E
REGISTERED PROFESSIONAL ENGINEER

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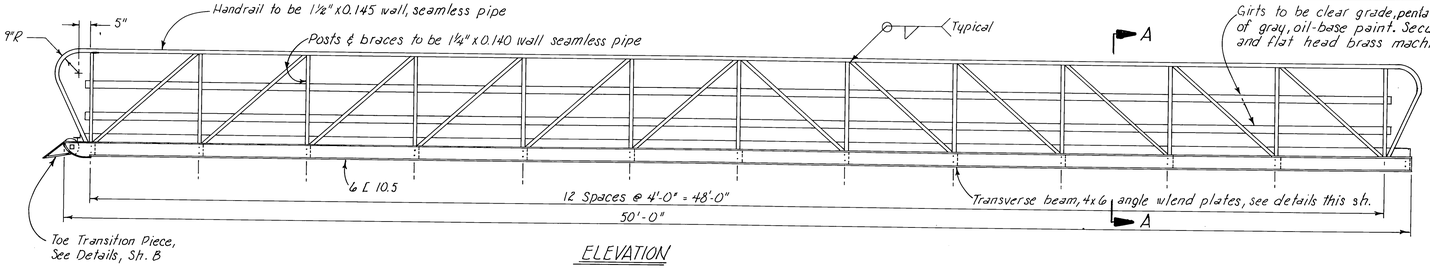
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
DIVISION OF HARBOR DESIGN AND CONSTRUCTION

WEST PETERSBURG ALASKA

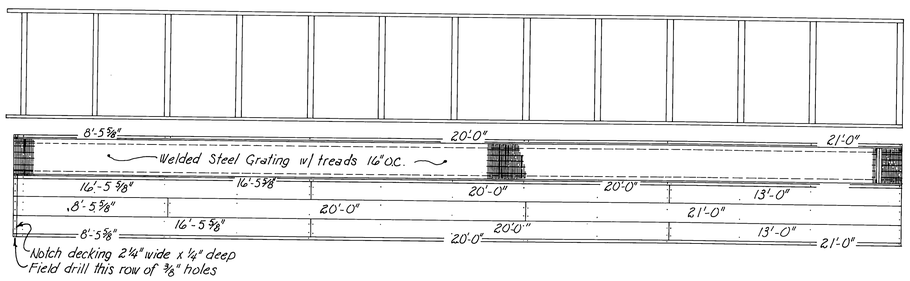
6'-0" APPROACH DETAILS

SCALE As noted	SURVEYED	APPROVED ROBERT P. BECK, CHIEF OF DESIGN
DESIGNED	DRAWN GRF	
CHECKED	DATE Dec. 1979	
PROJECT NUMBER K30154	SHEET 4 OF 6	



ELEVATION

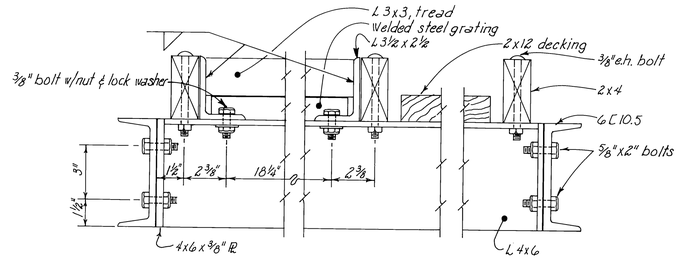
3/8" = 1'-0"



STRINGER & DECKING LAYOUT

¼" = 1'-0"

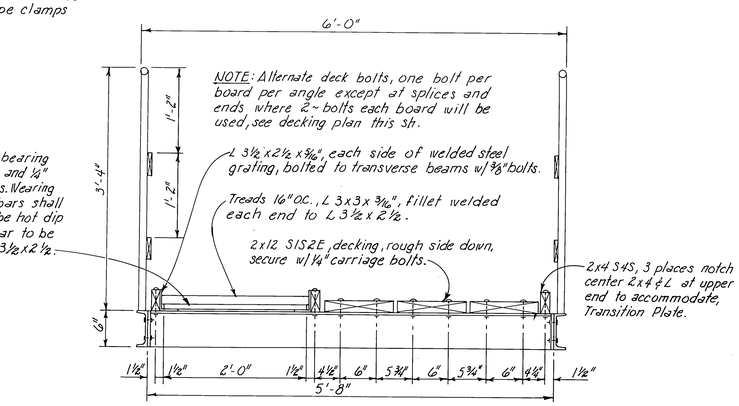
Welded steel grating w/ ¾" x ⅛" bearing bars spaced at 1 3/16" centers and ¼" cross bars spaced at 4" centers. Wearing surface of bearing and cross bars shall be serrated. The grating shall be hot dip galvanized. Every 4th bearing bar to be welded with ¾" long fillet to L 3½ x 2½.



SECTION

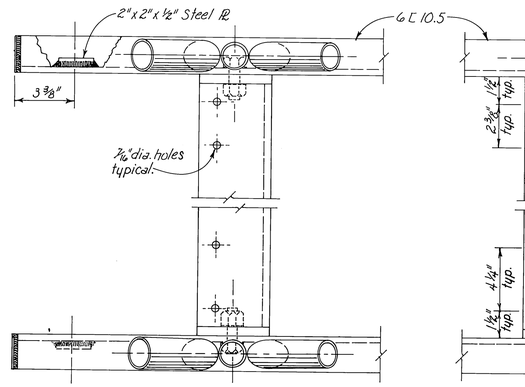
DETAIL ~ L 3½ x 2½ Bolted to L 4x6

3" = 1'-0"



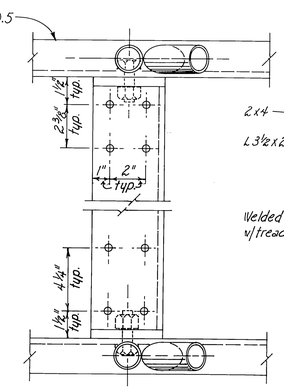
SECTION A-A

1" = 1'-0"



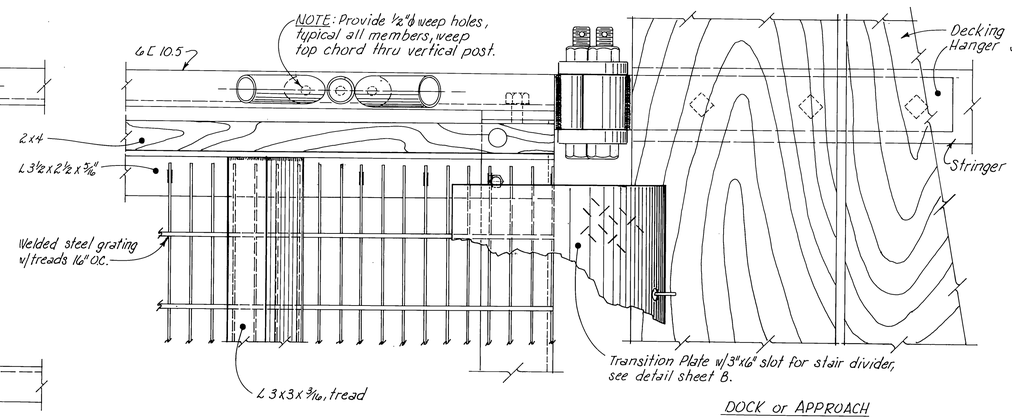
GANGWAY DETAILS

3" = 1'-0"

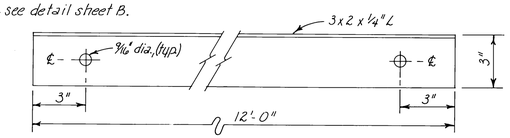


TYPICAL @ DECKING SPLICE

3" = 1'-0"



DOCK or APPROACH



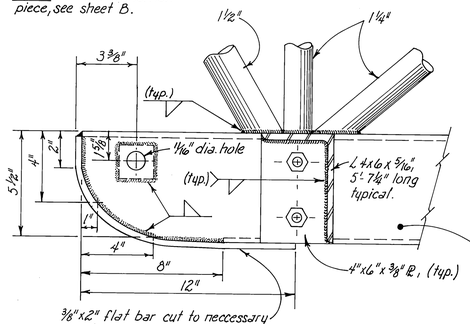
GUIDE RAIL

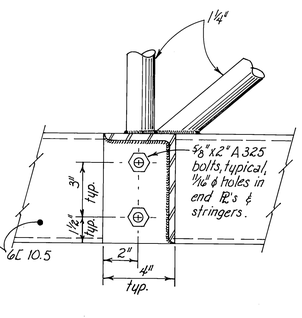
3" = 1'-0"

NOTES

1. Design load, 35 psf on gangway or 85 p.s.f. on treaded walkway only.
2. All seamless pipe shall conform to ASTM A-53, Grade B or ASTM A-500.
3. All shapes & plates shall conform to ASTM A-36.
4. Trusses shall be shop fabricated & assembled including hangers.
5. Splices shall be held to a minimum and where necessary shall be made in a manner that will not reduce the strength of the truss.
6. No tubing or channel splices will be permitted within 10' of the center of the truss structure.
7. Trusses & transverse beams shall be hot dipped galvanized after fabrication and in accordance with A.S.T.M. A-23, A-364, A-385 & A-386.
8. All steel hardware & fasteners shall be hot dipped galvanized in accordance with ASTM, A-153.
9. Decking & deck spacers shall be No.1, grade HEM-FIR penta pressure treated to 0.4 lb. cu. ft. retention and shall be field drilled to match shop drilled holes in transverse members.
10. Assembly shop drawing shall be submitted for approval.

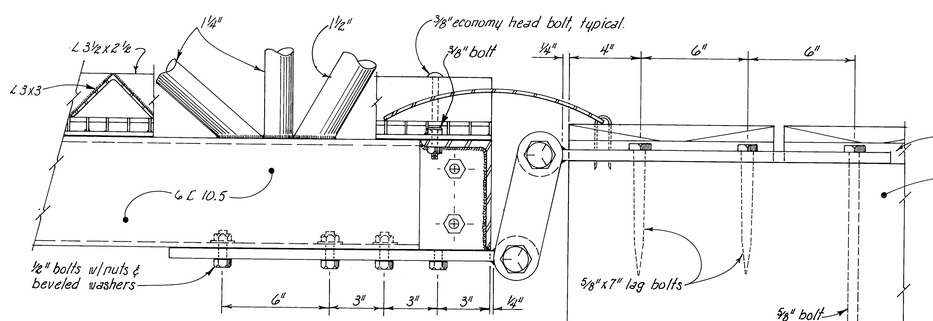
NOTE: For Toe Transition piece, see sheet B.





SECTIONAL ELEVATIONS

3" = 1'-0"



GANGWAY HEAD DETAILS

3" = 1'-0"

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STATE OF ALASKA 49th
Harold R. Moeser
No. 4373-E
REGISTERED PROFESSIONAL ENGINEER

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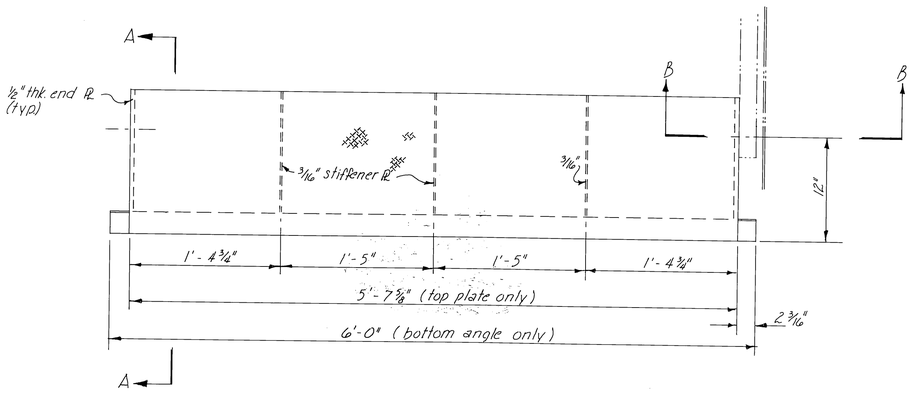
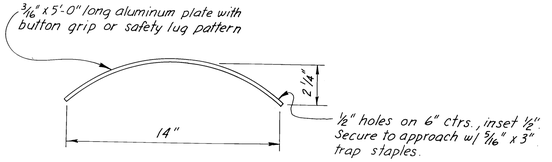
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
DIVISION OF HARBOR DESIGN AND CONSTRUCTION

TYPICAL 6'x50'-0" STEEL GANGWAY (SHEET A)

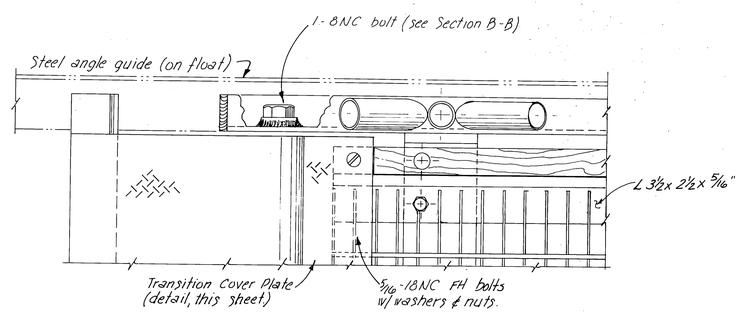
SCALE As noted	SURVEYED ~	APPROVED	
DESIGNED ~	DRAWN GRF		Robert P. Beck
CHECKED ~	DATE Dec. 1979		CHIEF OF DESIGN
PROJECT NUMBER K30154		SHEET 5 OF 6	



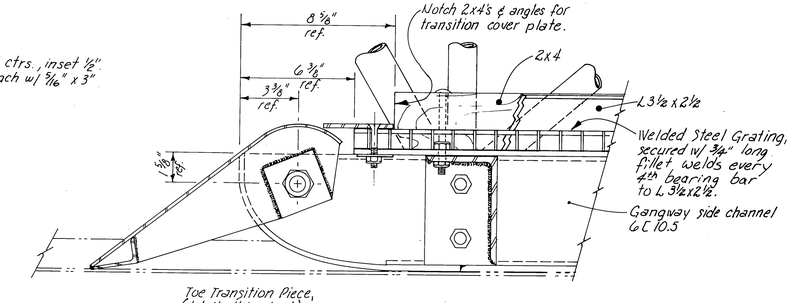
PLAN VIEW
1½" = 1'-0"



TRANSITION PLATE
3" = 1'-0"

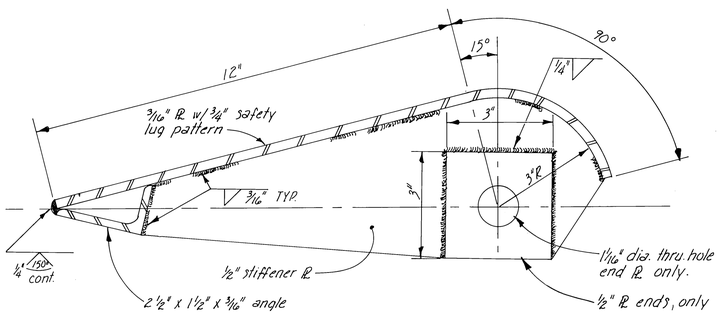


PLAN
3" = 1'-0"

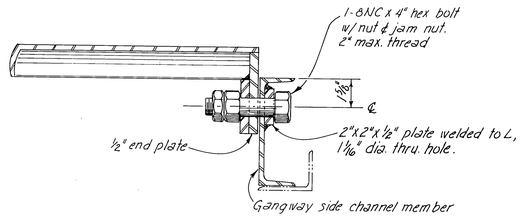


SECTIONAL ELEVATION
3" = 1'-0"

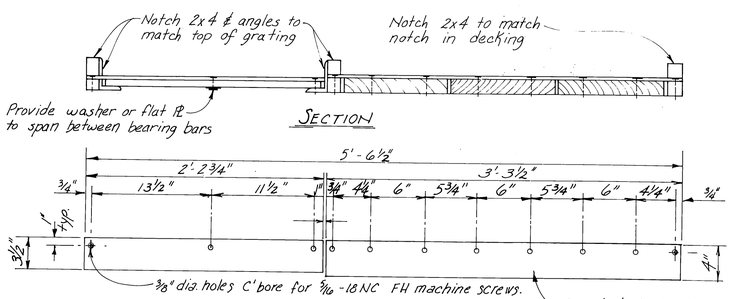
Assembly Detail



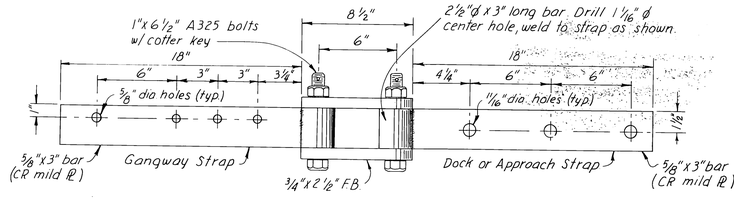
SECTION A - A
HALF SIZE



SECTION B-B
3" = 1'-0"
(Typ. ea. end)



PLAN
TRANSITION COVER PLATES
1½" = 1'-0"



HANGER STRAP ASSEMBLY
NOT TO SCALE

Note:
For notes pertaining to fabrication and galvanizing, see Sheet A.

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Harold R. Messer No. 4373-E
REGISTERED PROFESSIONAL ENGINEER

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STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
DIVISION OF HARBOR DESIGN AND CONSTRUCTION

TYPICAL STEEL GANGWAY (SHEET B)

SCALE As Noted	SURVEYED	APPROVED	
DESIGNED	DRAWN GRF		CHIEF OF DESIGN
CHECKED	DATE JAN. 1979		
PROJECT NUMBER K30154		SHEET 6 OF 6	