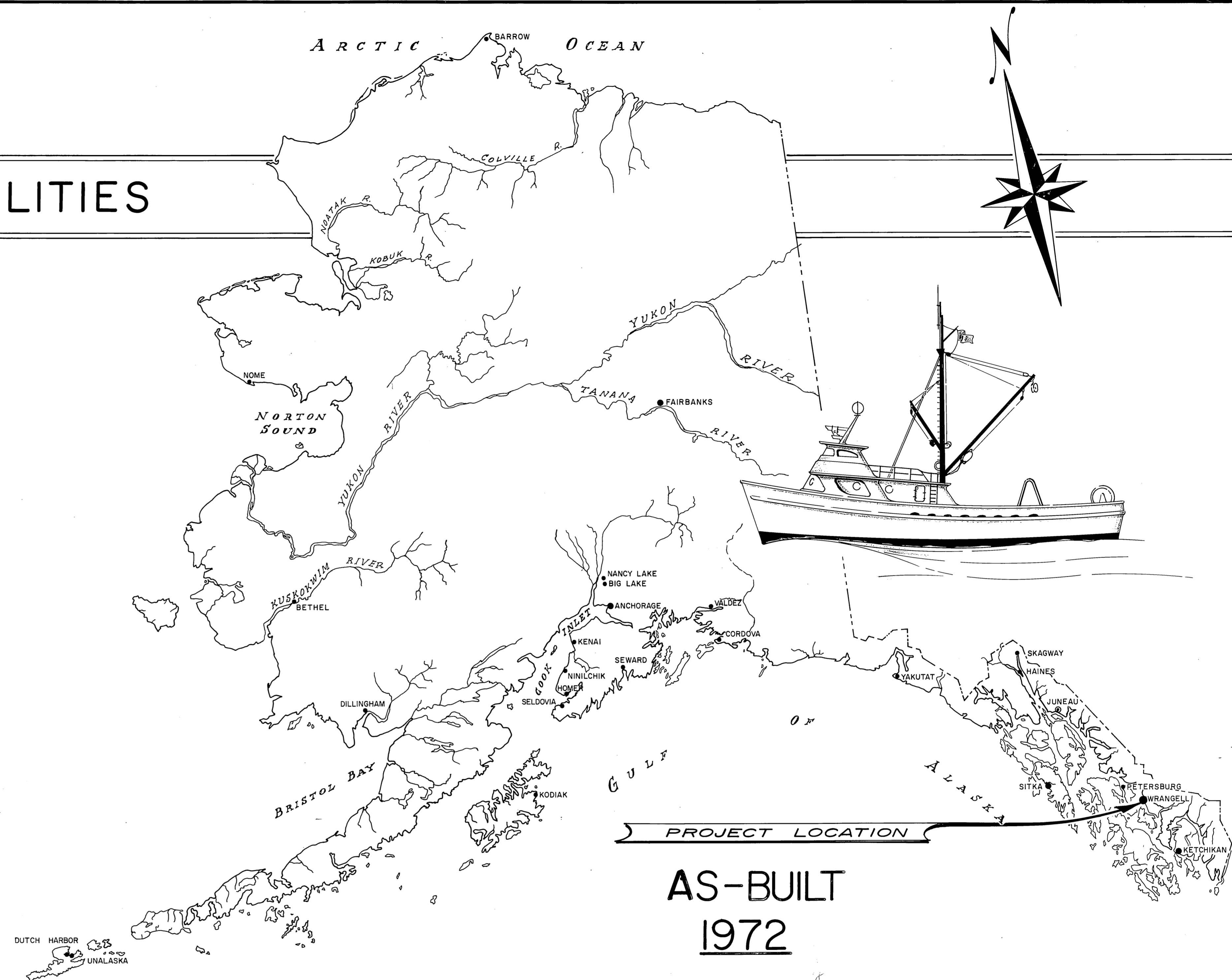


WRANGELL BOAT HARBOR FACILITIES

PROJECT NO. 3-72131



AS-BUILT
1972

WORK SUMMARY

Major units of this project include construction of 2644 SF of new dock structure, reconstruction of 5182 SF of existing approach, walkway, and dock structure, construction of a 4'x105' grid walkway, furnishing and installing a new 6'x50' steel gangway, and dredging approximately 3916 cu.yd. of unclassified material.

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

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1	TITLE & LOCATION	
2	LAYOUT & DETAILS	
3	APPROACH & DOCK RECONSTRUCTION	
4	DOCK CONSTRUCTION DETAILS	
5	GRID WALKWAY DETAILS	
6	TYPICAL STEEL GANGWAY	

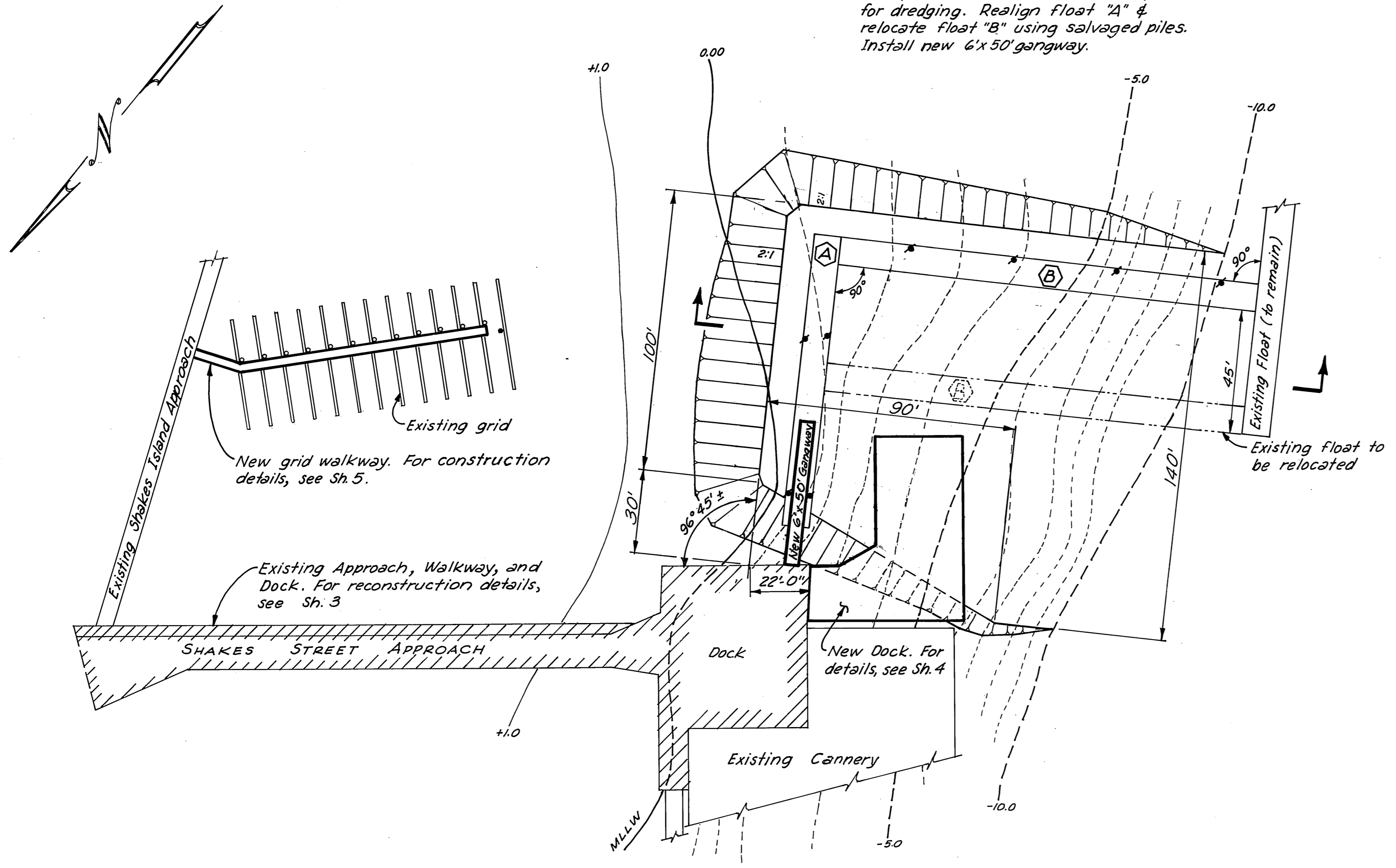
APPROVED

Jim Stutter
DIRECTOR

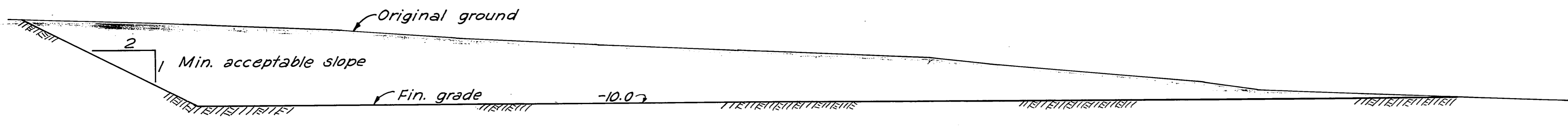
DATE 9/27/71

SHEET 1 OF 6

Note: Pull piles and remove floats "A" & "B" for dredging. Realign float "A" & relocate float "B" using salvaged piles. Install new 6'x50' gangway.



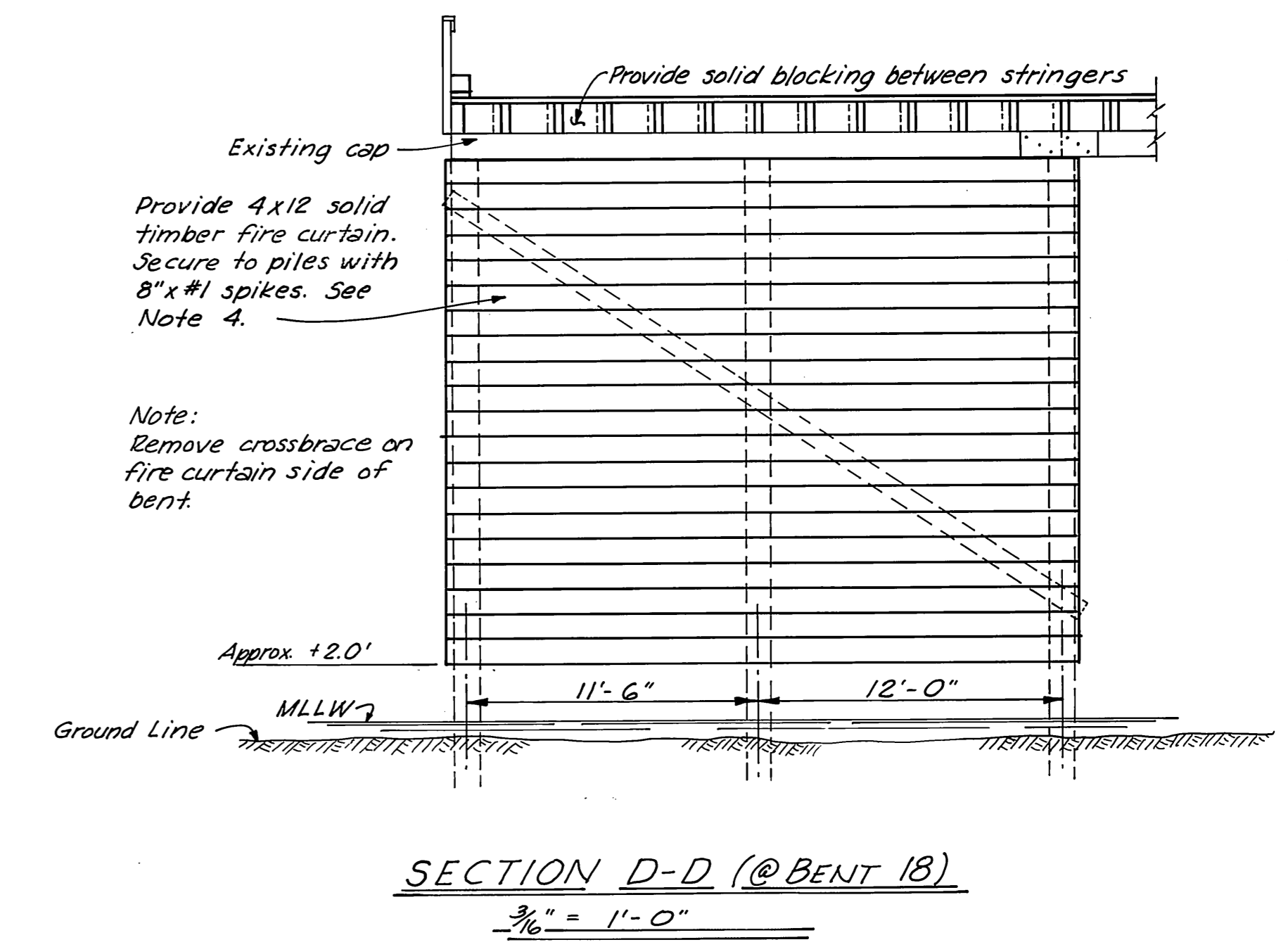
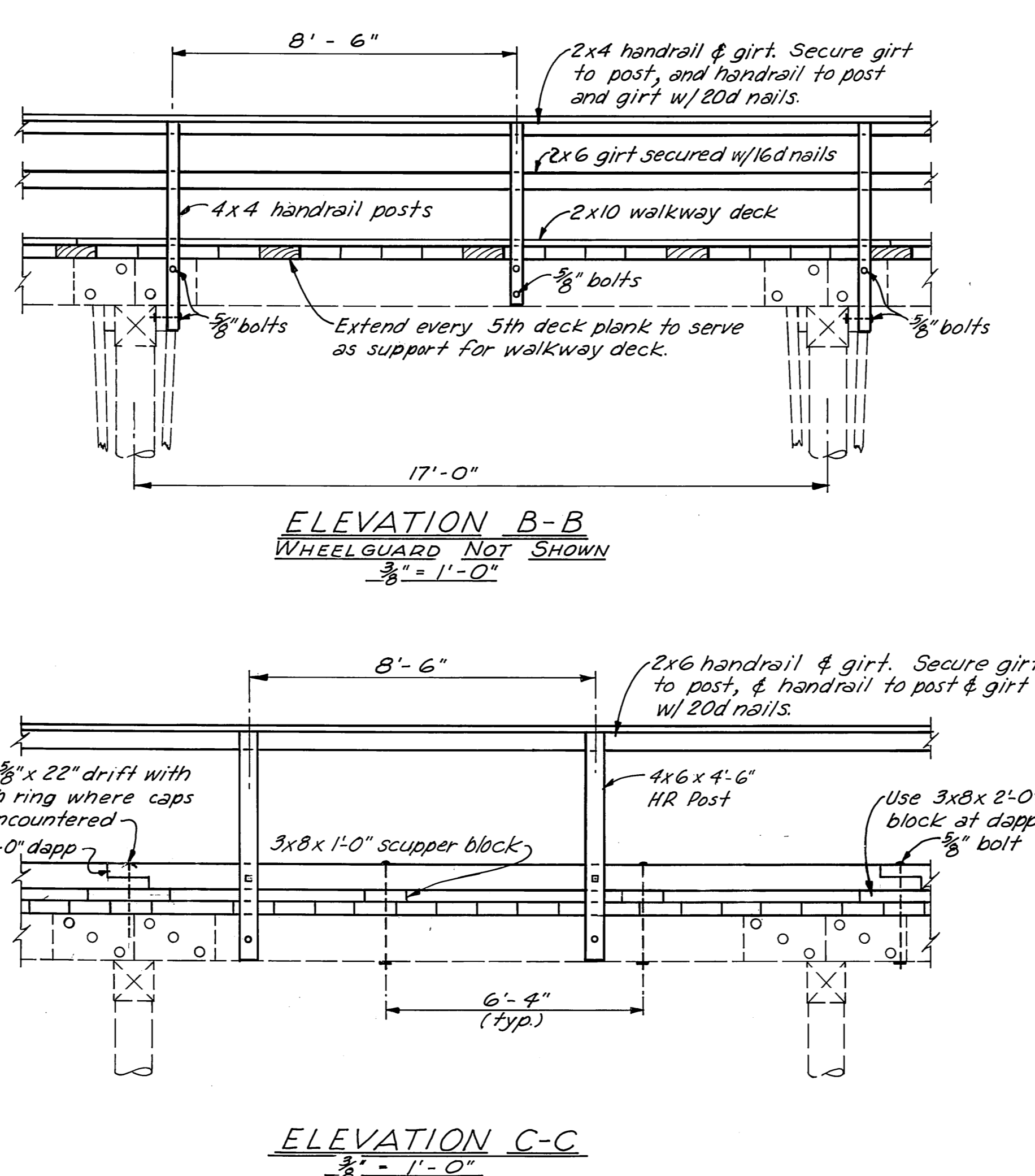
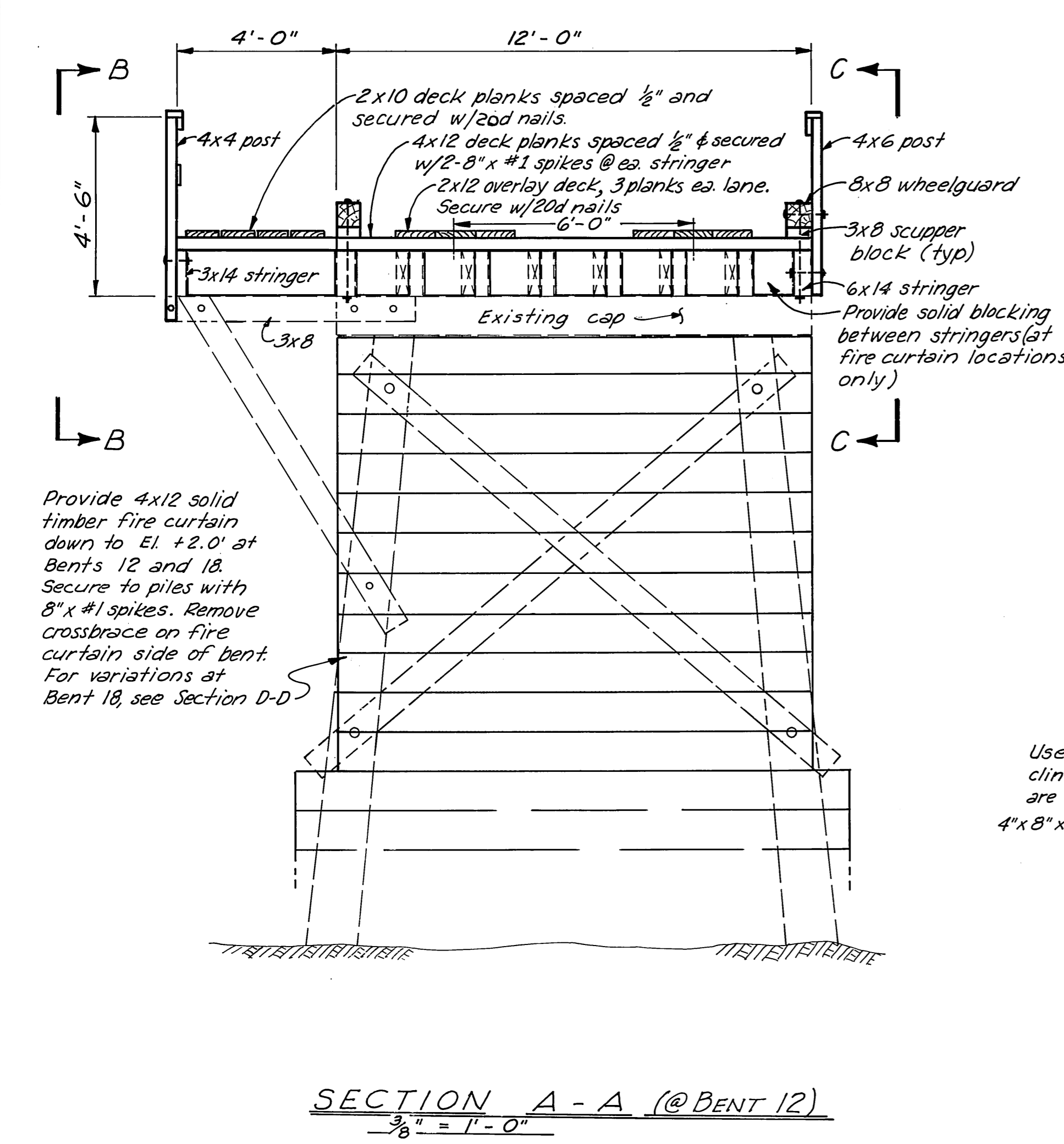
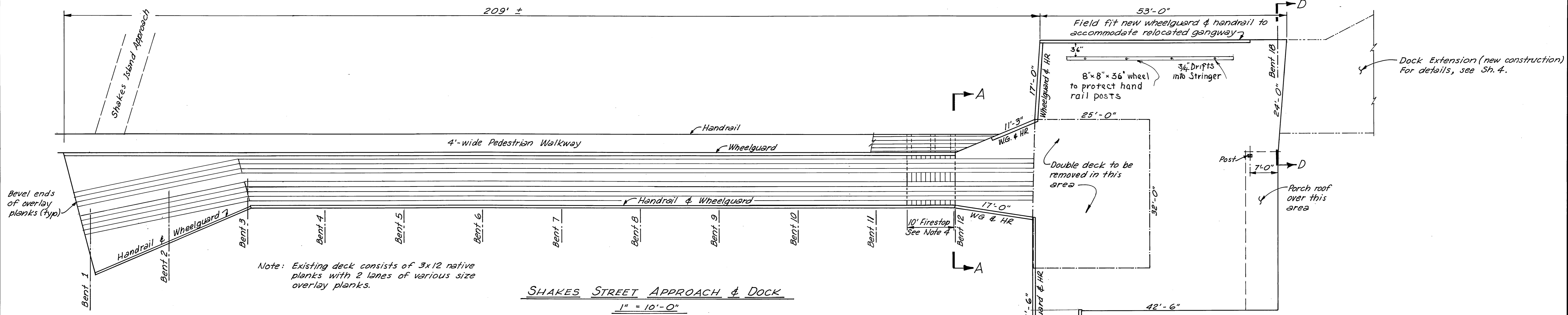
PLAN
1" = 30'



SECTION
1" = 10'

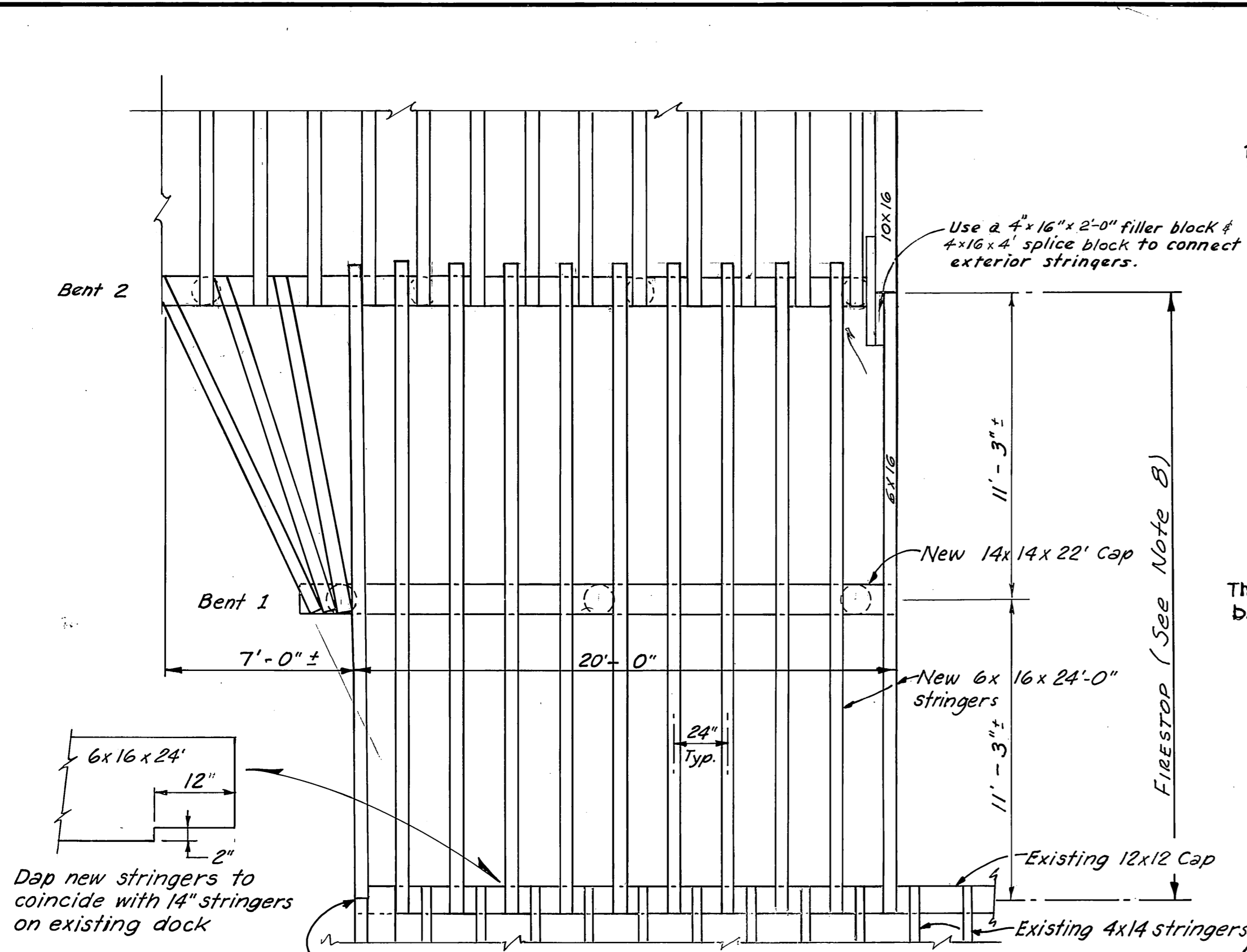
NOTE:
Alignments, locations, and elevations shown for existing ground and structures are approximate. Alignments and finish grades for structures and dredging to be accomplished by this project are subject to field revision.

DO NOT SCALE THIS DRAWING - USE DIMENSIONS		
STATE OF ALASKA DEPARTMENT OF PUBLIC WORKS DIVISION OF WATER AND HARBORS		
LAYOUT & DETAILS		
SCALE <i>As shown</i>	SURVEYED <i>-</i>	APPROVED
DESIGNED <i>-</i>	DRAWN <i>JET</i>	<i>Don Statter</i>
CHECKED <i>DM, DW, DS</i>	DATE <i>9-27-77</i>	DIRECTOR
PROJECT NUMBER <i>3-72131</i>	SHEET <i>2</i> OF <i>6</i>	

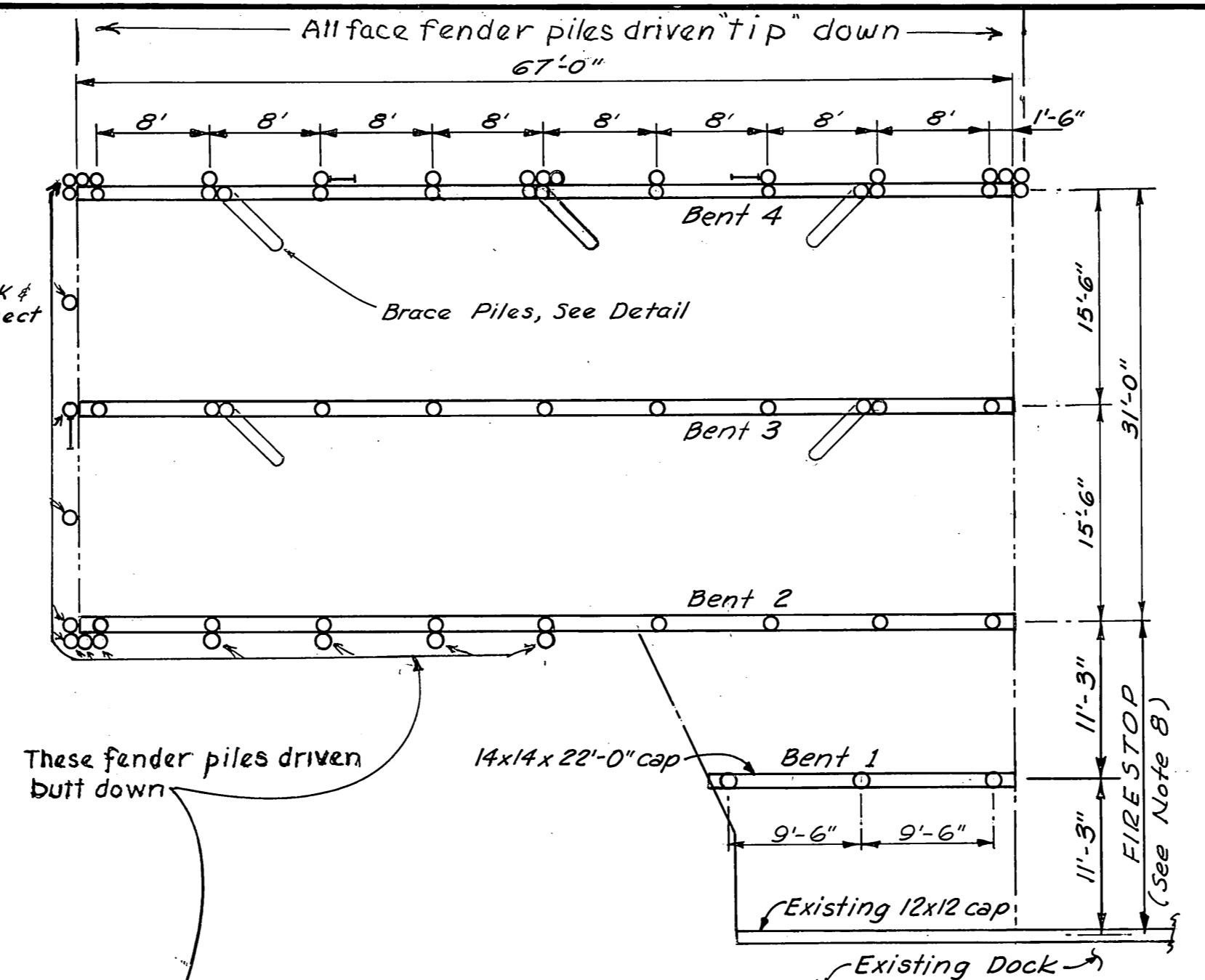


- NOTES:
1. Approach, walkway & dock shall be dismantled and all deck planks, wheelguards & scupper blocks, handrails, handrail posts, and girts shall be replaced with new members.
 2. New wheelguards shall be dapp joined on 19' centers except where other lengths are required to accommodate existing openings. Wheelguards & scupper blocks shall be S4S and treated with 0.5lb./cu.ft Pentachlorophenol.
 3. All other materials, fastenings, dressings & treatments shall conform to requirements for new construction as given on Sh. 4.
 4. All timber material used in fire curtains and in areas designated as firestops shall be pressure treated, fire retardant, as specified.

DO NOT SCALE THIS DRAWING - USE DIMENSIONS		
STATE OF ALASKA DEPARTMENT OF PUBLIC WORKS DIVISION OF WATER AND HARBORS		
SHAKES STREET APPROACH & DOCK RECONSTRUCTION DETAILS		
SCALE <i>As shown</i>	SURVEYED -	APPROVED
DESIGNED -	DRAWN JET	Don Statter DIRECTOR
CHECKED DM, DW, DS	DATE 9-27-71	
PROJECT NUMBER 3-72131	SHEET 3 OF 6	

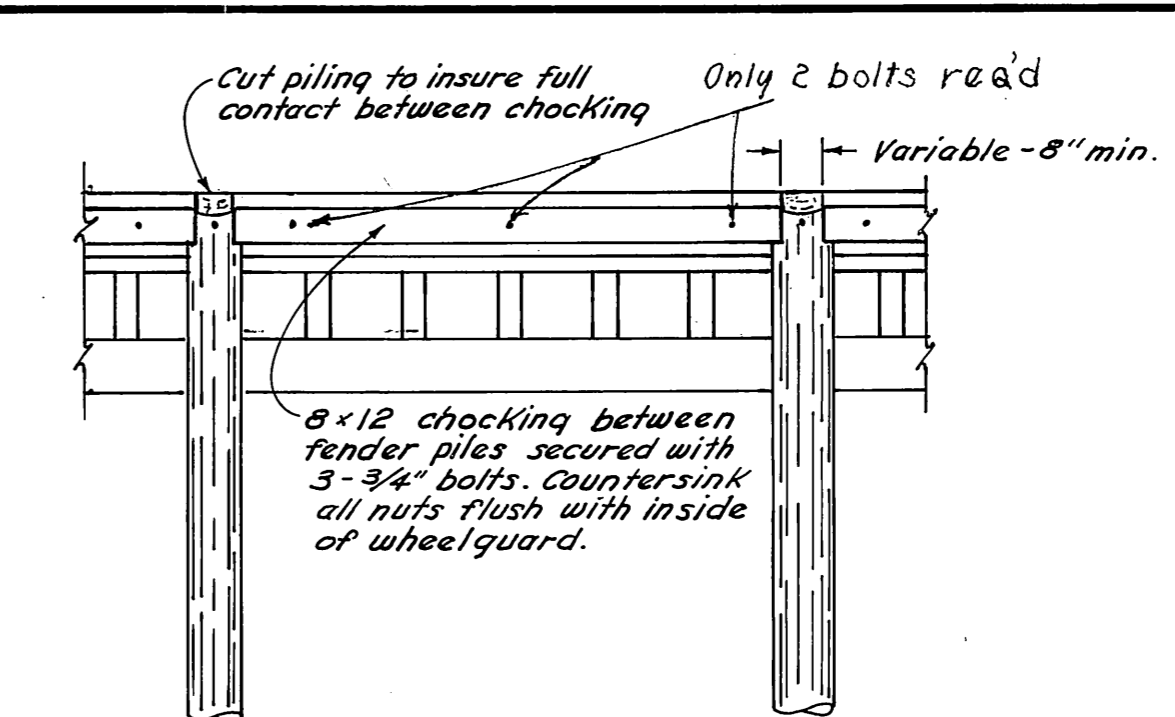


APPROACH FLARE DETAIL
Stringer Layout
scale: 1/4" = 1'-0"

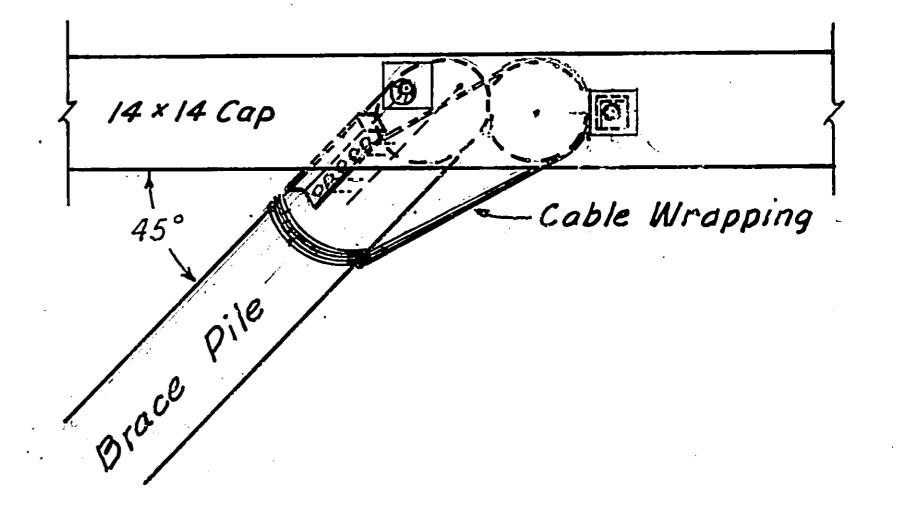


DOCK PILE & CAP LAYOUT
scale: 1" = 10'

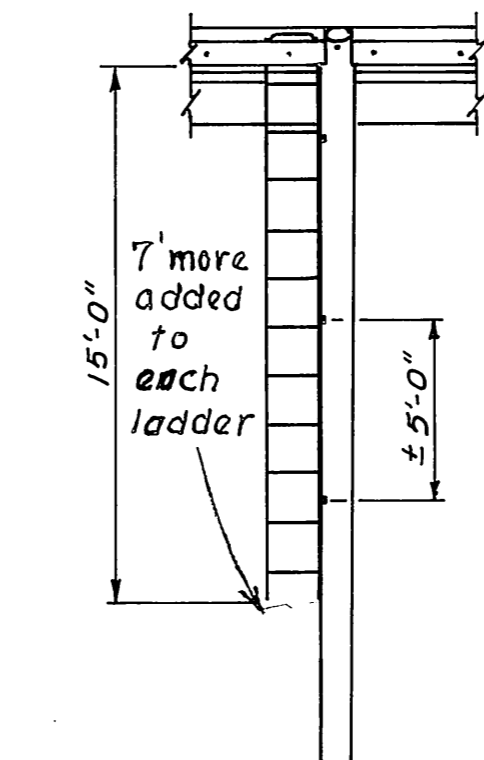
- NOTES:**
1. All hardware to be hot dip galvanized. A malleable iron washer shall be placed between all nut and wood surfaces.
 2. All bolts to be economy head type. All bolt holes to be 1/16" oversize.
 3. Drift holes to be 1/8" undersize.
 4. All pressure treated creosote materials shall be cut to size before treatment.
 5. Drift holes in stringers & splice blocks, and bolt holes in exterior stringers for splice blocks shall be drilled before treatment. All other holes may be field drilled.
 6. All field drilled holes shall be treated with hot creosote oil.
 7. Approach & dock bearing piles shall be driven tip down to 15' penetration or refusal as determined by the Engineer. Fender piles shall be driven butt down to 10' penetration.
 8. In area designated as Firestop, all timber material above caps shall be pressure treated, fire-retardant, as specified.



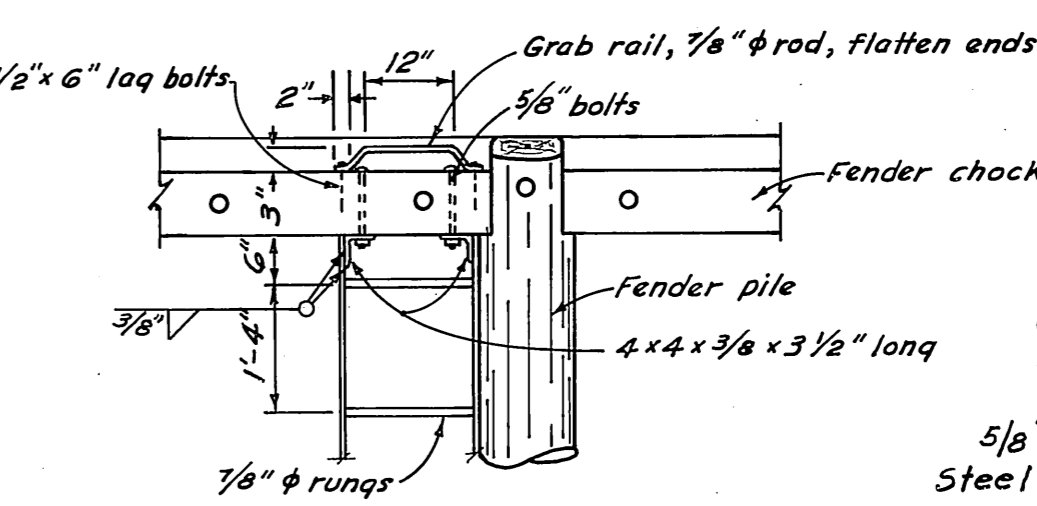
FENDER PILE DETAIL
scale: 1/4" = 1'-0"



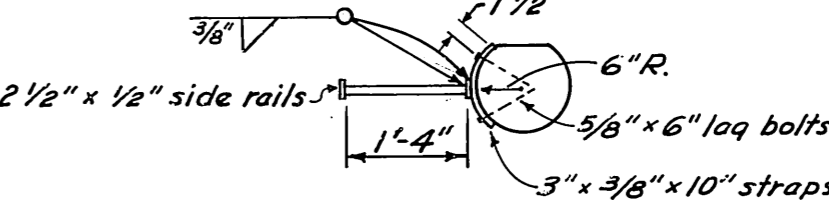
PLAN



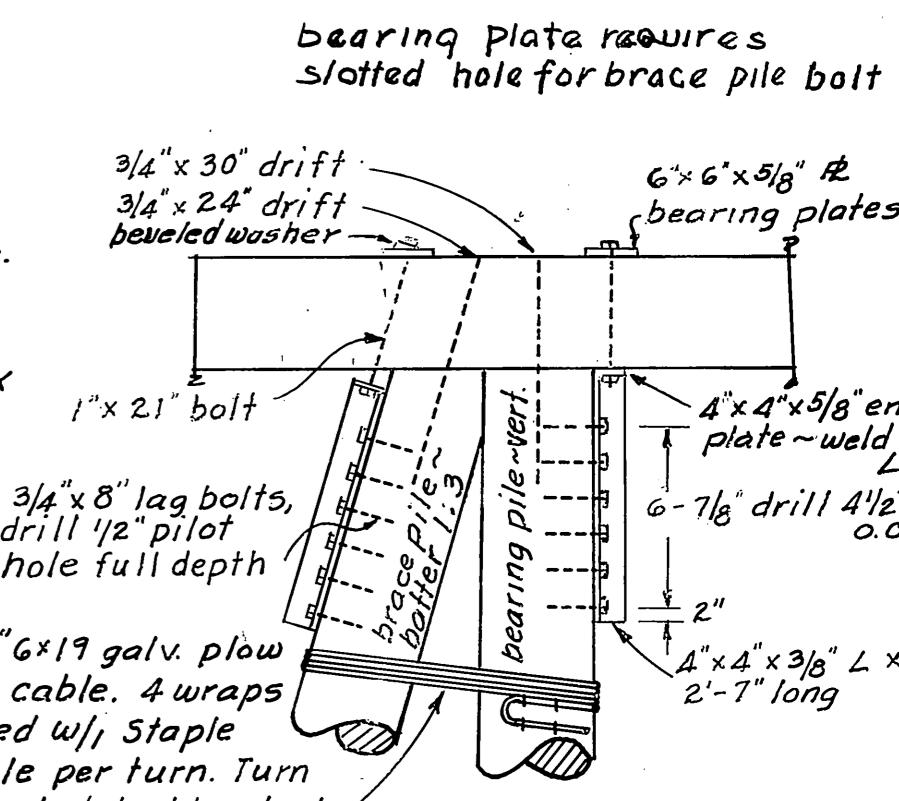
ELEVATION
scale: 3/16" = 1'-0"



TOP DETAIL



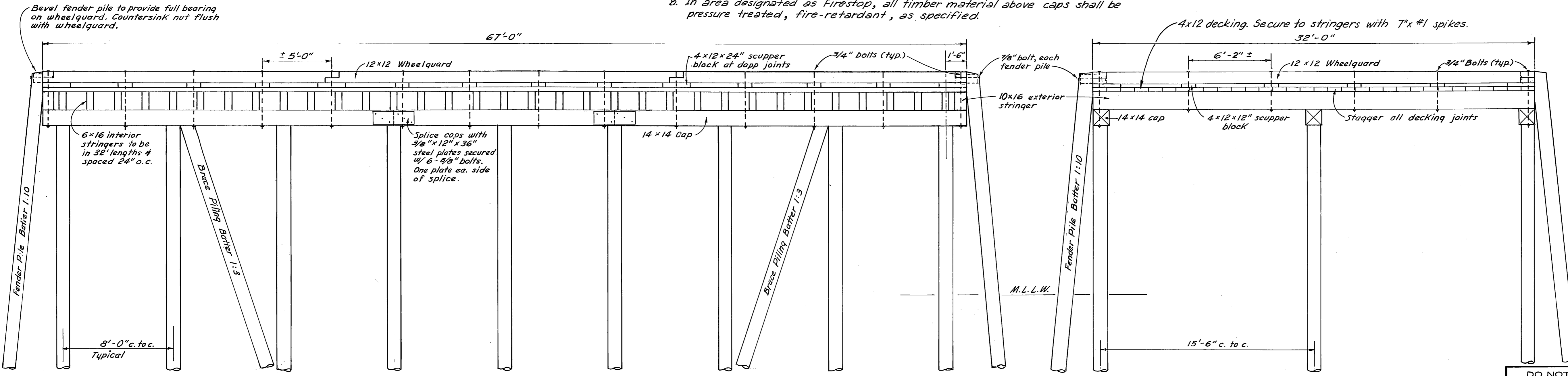
RUNG DETAIL
scale: 1/2" = 1'-0"



ELEVATION

BRACE PILE DETAILS
scale: 1/2" = 1'-0"

LADDER DETAILS
(3 req'd - see Dock Piling & Cap Layout for locations)



ELEVATION - DOCK FACE
Fender Piling Not Shown
scale: 1/4" = 1'-0"

DOCK END VIEW
Fender Piling Not Shown
scale: 1/4" = 1'-0"

MATERIALS		
ITEM	DRESSING	TREATMENT
Piles	Class B	12# creo. ret.
Bracing	Rough	" " "
Caps	S4S	8# creo. ret.
Stringers	S2E	" " "
Splice Block	"	" " "
Deck Planks	S1S	" " "
Handrail Post	S4S	W.R. Penta
Handrail	"	" " "
Girts	"	" " "
Wheelguard	"	" " "

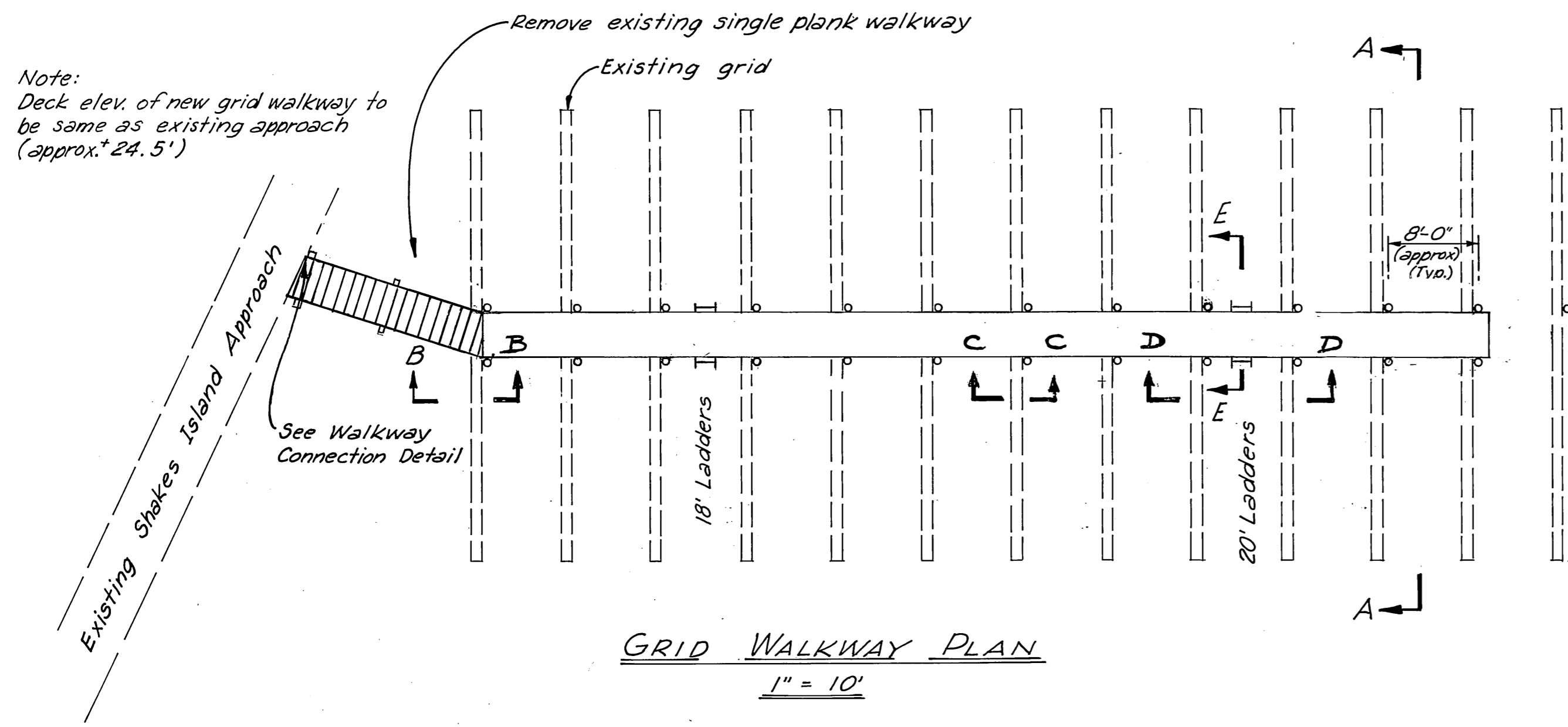
All 12-lb. creo. treatment to be Full Cell.
All 8-lb. creo. treatment to be Empty Cell.
All material to be Constr. grade Douglas fir.

DO NOT SCALE THIS DRAWING - USE DIMENSIONS

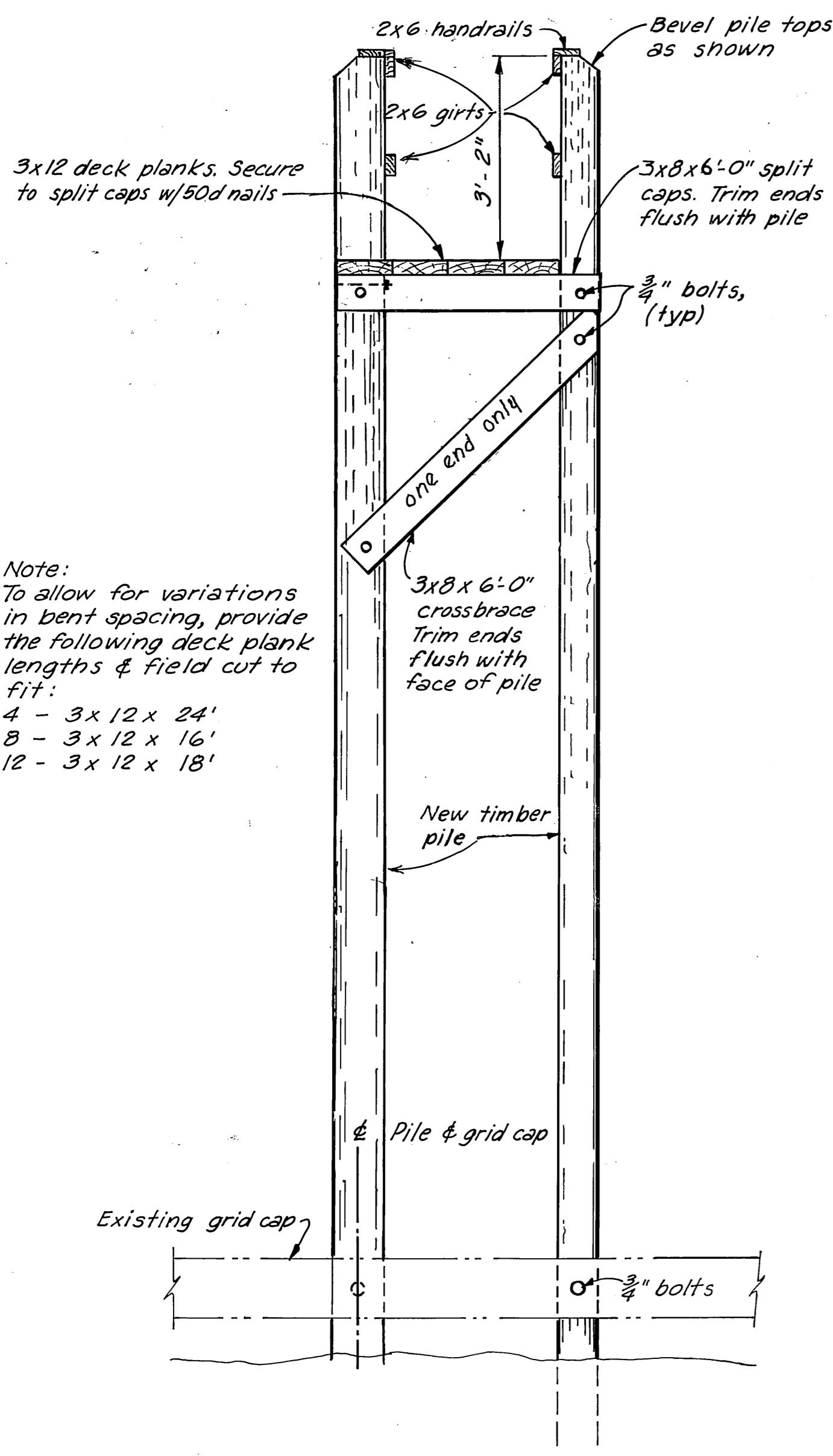
STATE OF ALASKA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF WATER AND HARBORS

WRANGELL DOCK
DOCK CONSTRUCTION DETAILS

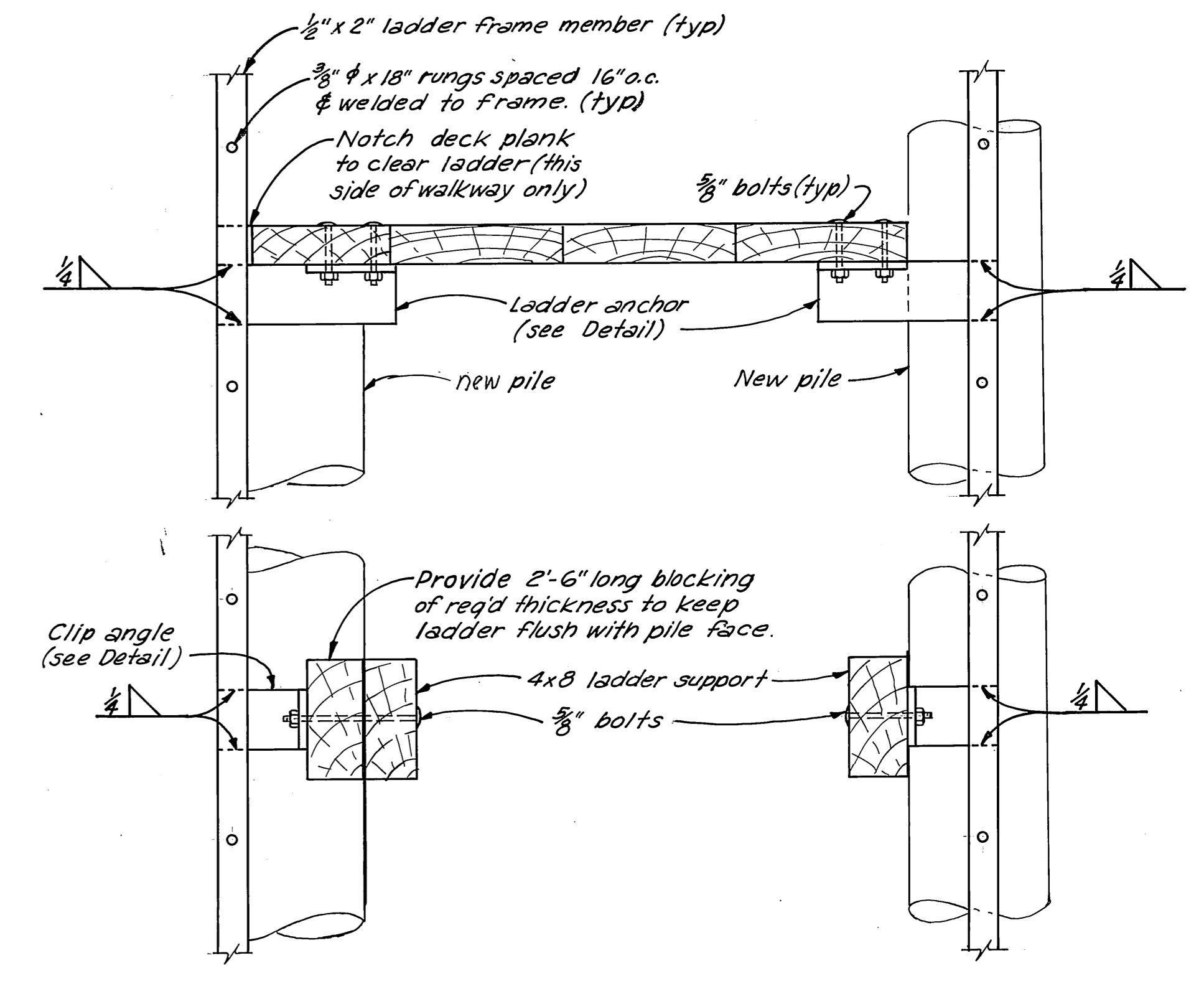
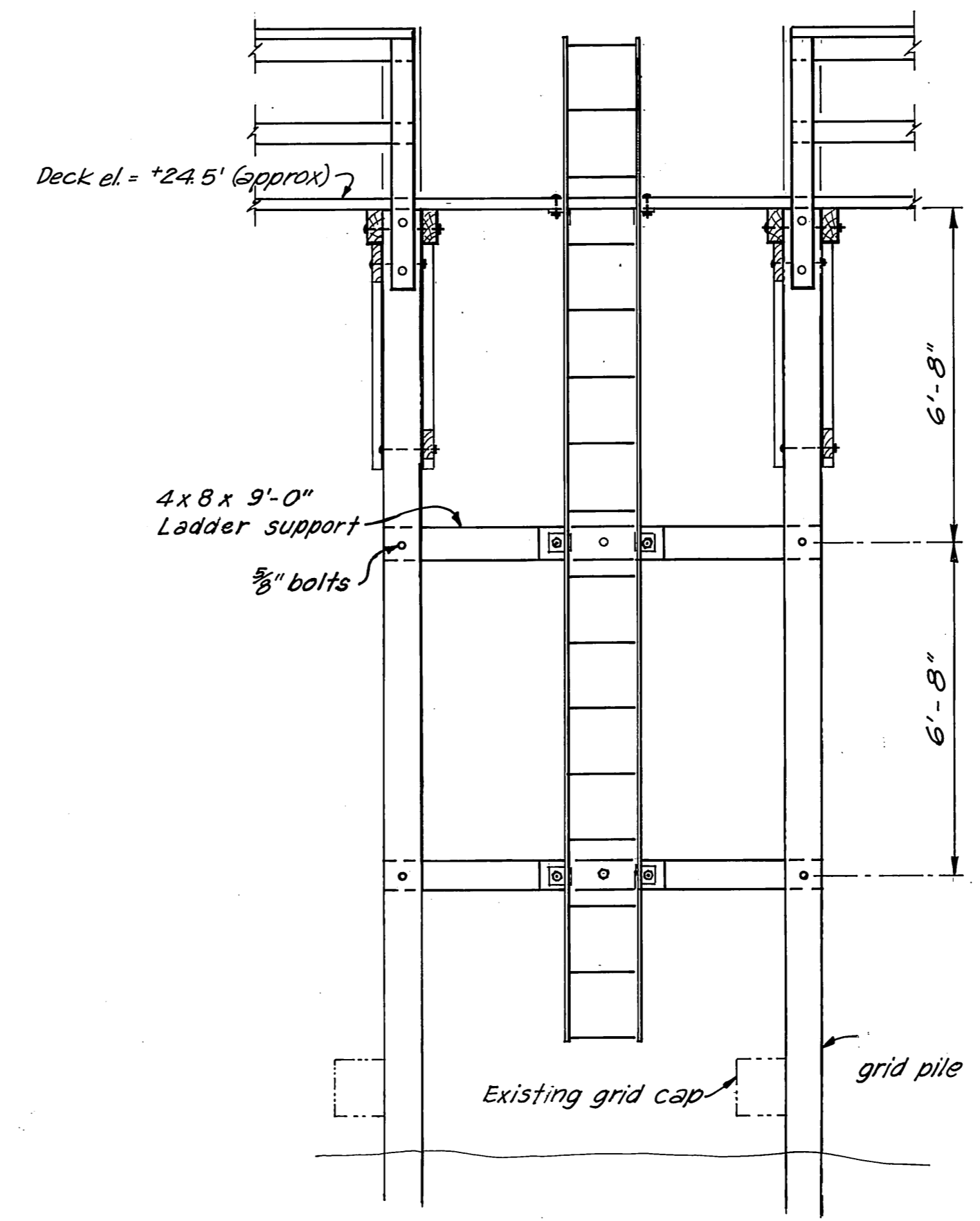
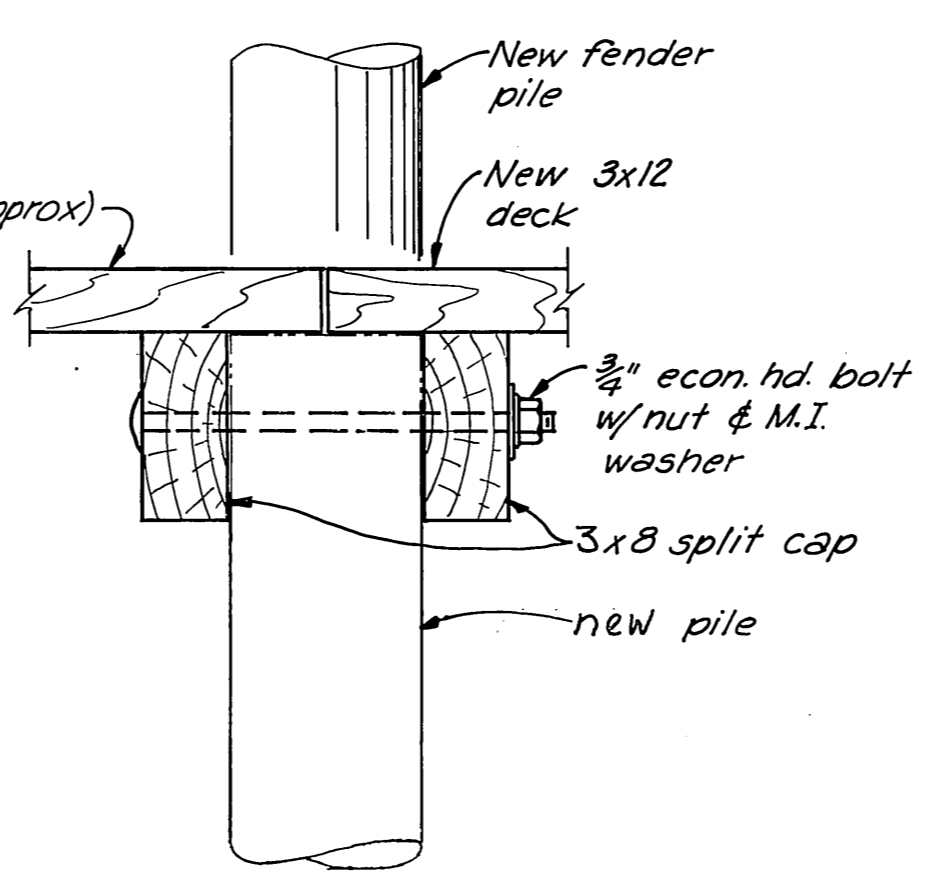
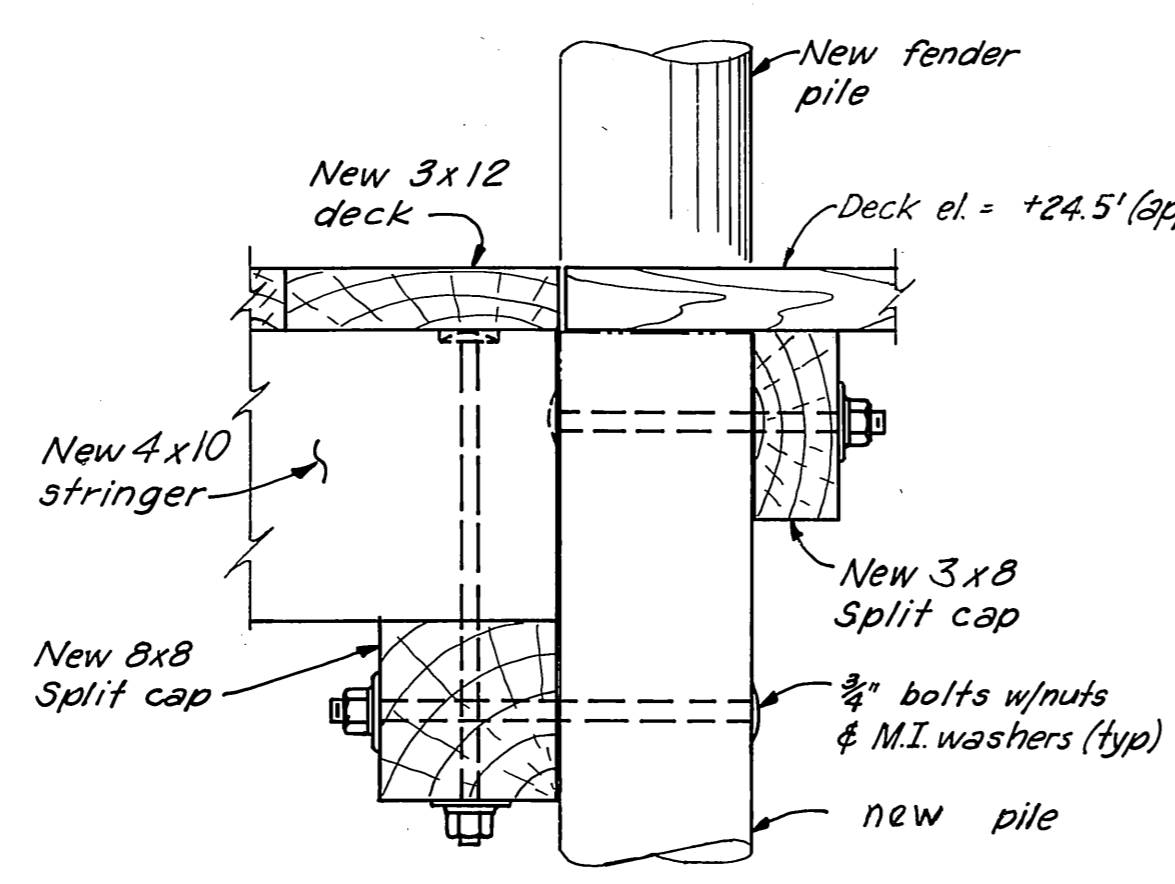
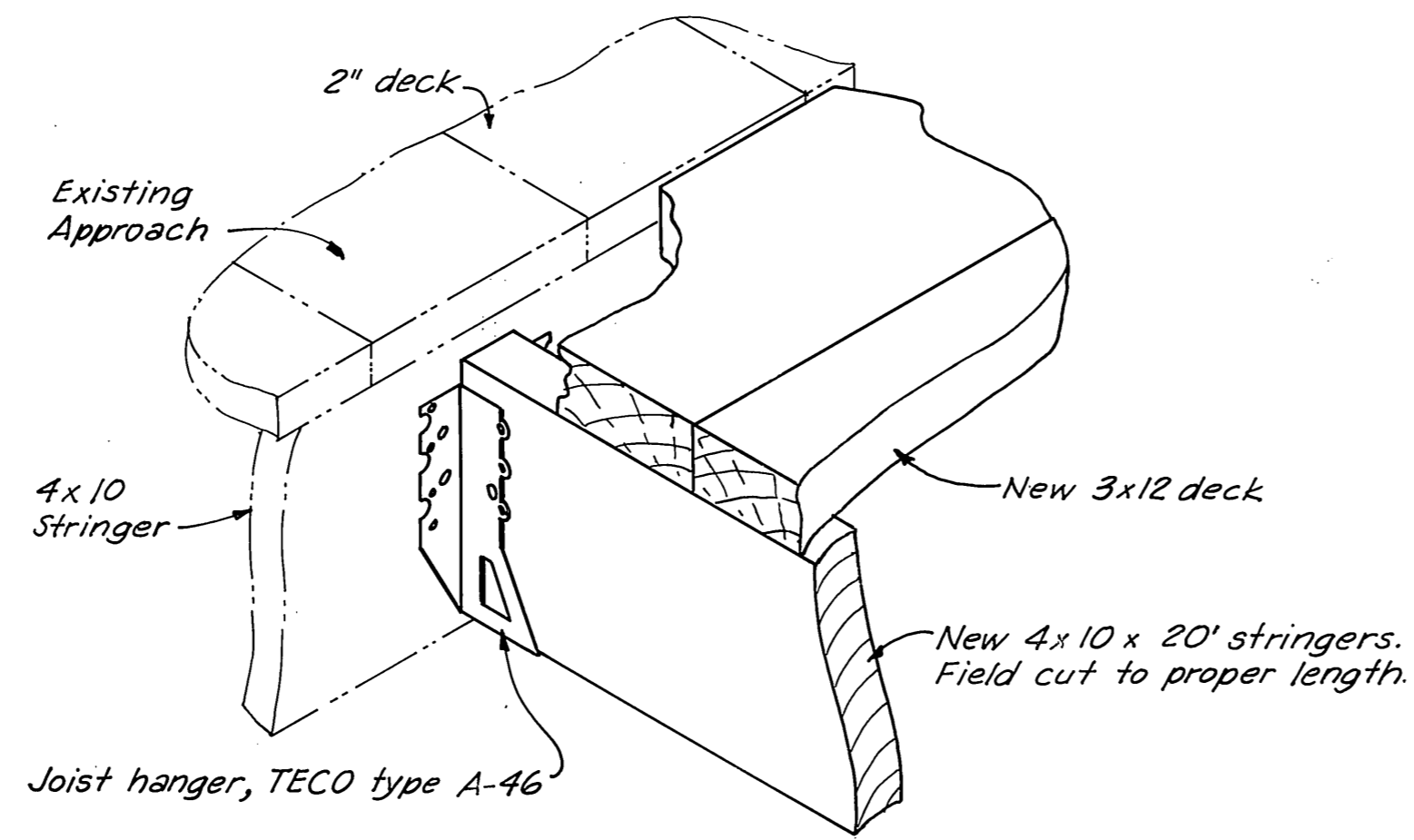
SCALE As Shown	SURVEYED D.S.-D.M.	APPROVED
DESIGNED D.S.M.	DRAWN E/S/DCW/LT	DON STATTER
CHECKED D.S.M./P.E.	DATE 9-27-71	DIRECTOR
PROJECT NUMBER 3-72131	SHEET 4 OF 6	



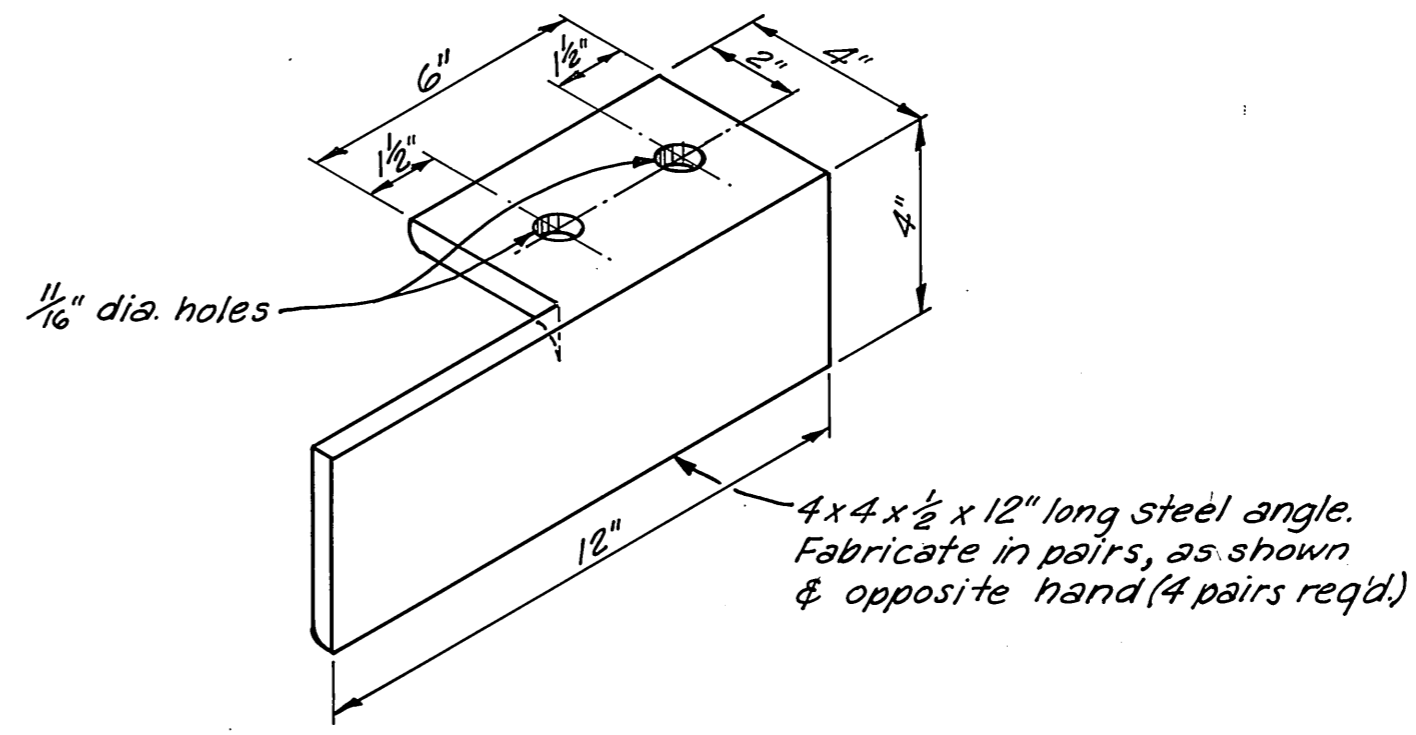
Note: Secure handrails to girts, $\frac{3}{8}$ " & piles w/20d nails.



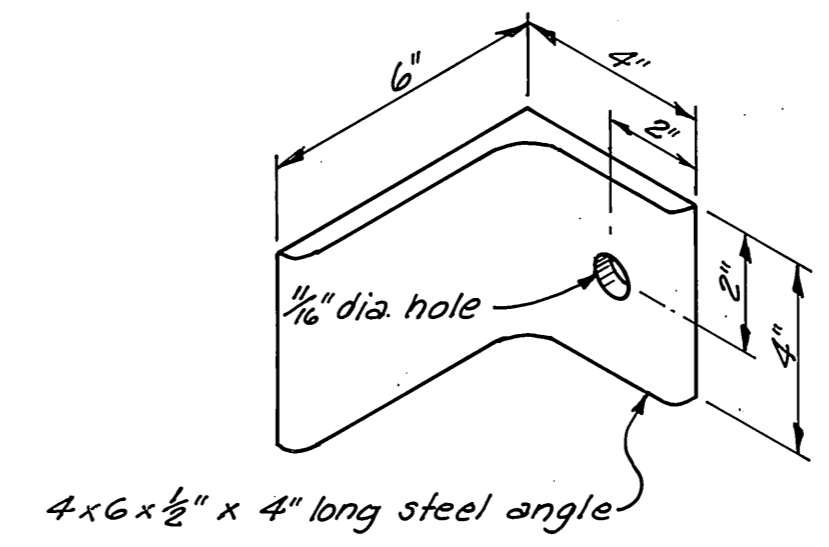
Note: To allow for variations in bent spacing, provide the following deck plank lengths & field cut to fit:
4 - 3x12x24'
8 - 3x12x16'
12 - 3x12x18'



MATERIALS		
ITEM	DRESSING	TREATMENT
Piles	Class B	12-lb Creo. ret.
Split Caps	S45	B-1b " "
Cross Bracing	Rough	" " "
Ladder Supports	"	" " "
Deck planks	S15	0.5-lb. Penta.
Handrails & Girts	S45	" " "
Handrail Posts	S45	" " "



NOTES:
1. All piles to be Class B, 12-lb. creo. ret, driven butt down to 10' penetration or refusal.
2. All hardware to be hot dip galvanized. A malleable iron washer shall be placed between all nut & wood surfaces.
3. All bolts to be of economy head type. Bolt holes to be drilled 1/16" oversize. Drift holes to be 1/16" undersize.
4. All pressure treated materials shall be cut to size prior to treatment. All field drilled holes & field cuts in creosote treated materials shall be saturated with hot creosote oil.

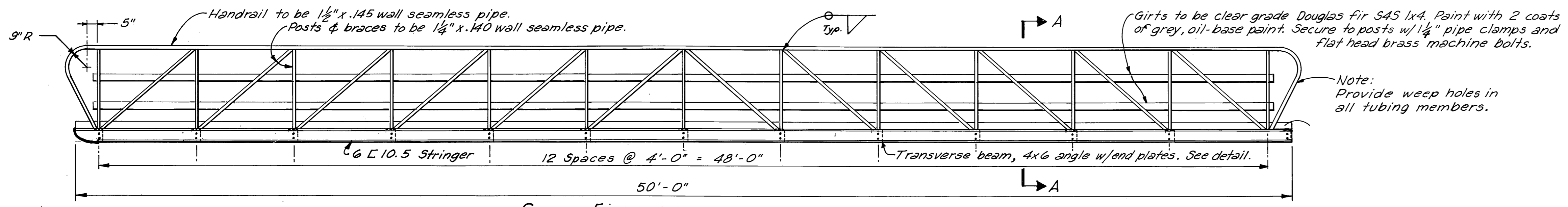


DO NOT SCALE THIS DRAWING - USE DIMENSIONS

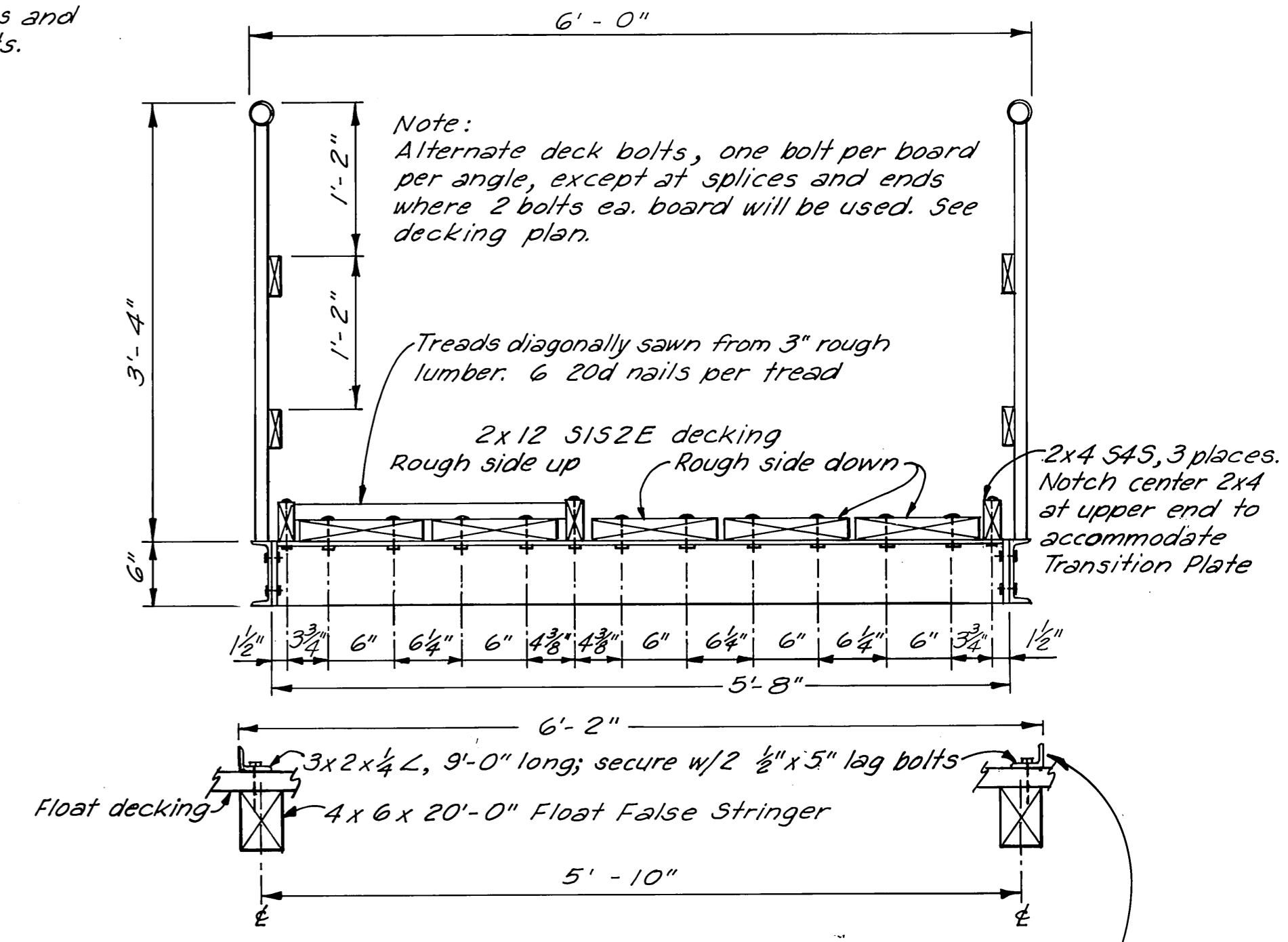
STATE OF ALASKA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF WATER AND HARBORS

GRID WALKWAY CONSTRUCTION DETAILS

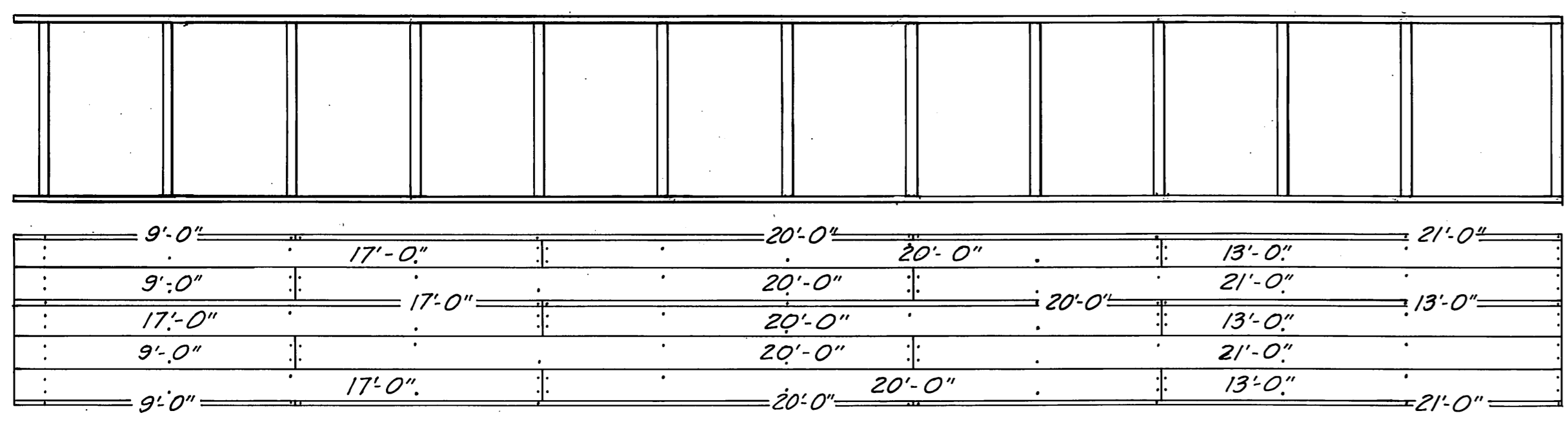
SCALE: As shown	SURVEYED: —	APPROVED: —
DESIGNED: DW	DRAWN: JET	Don Statter DIRECTOR
CHECKED: DM, DW, DS	DATE: 9-27-71	
PROJECT NUMBER: 3-72131	SHEET: 5 OF 6	



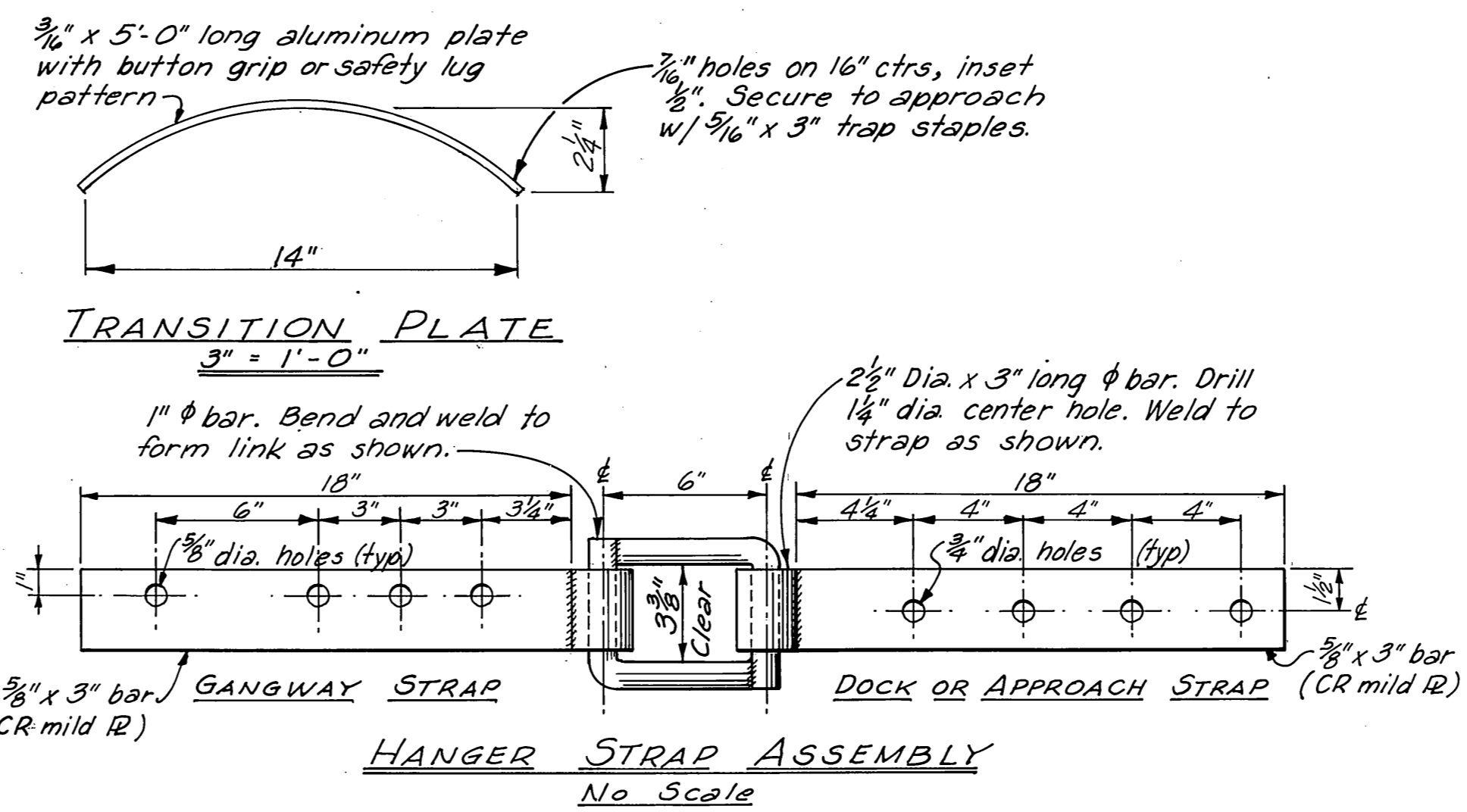
SIDE ELEVATION
3/8" = 1'-0"



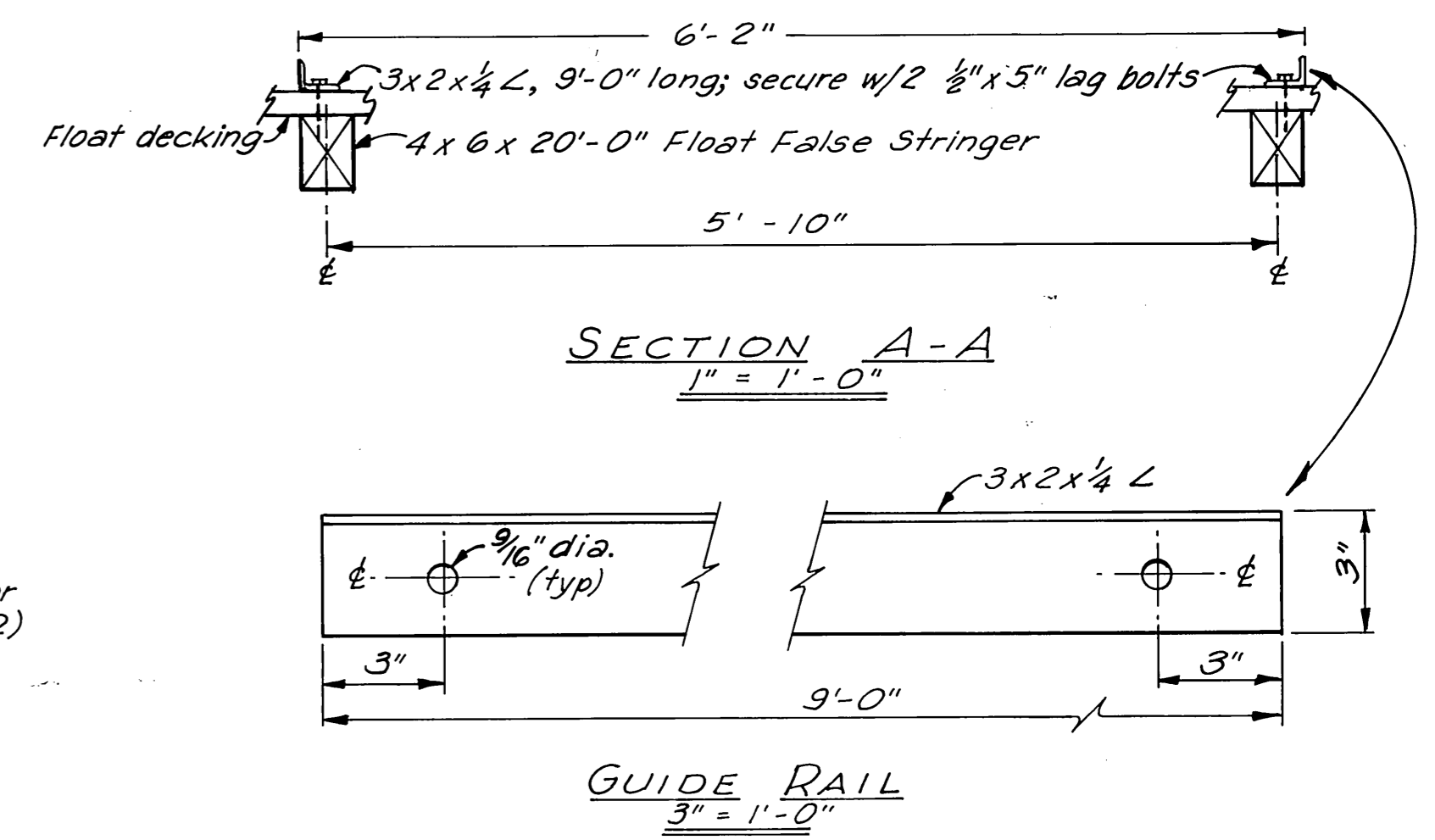
SECTION A-A
1" = 1'-0"



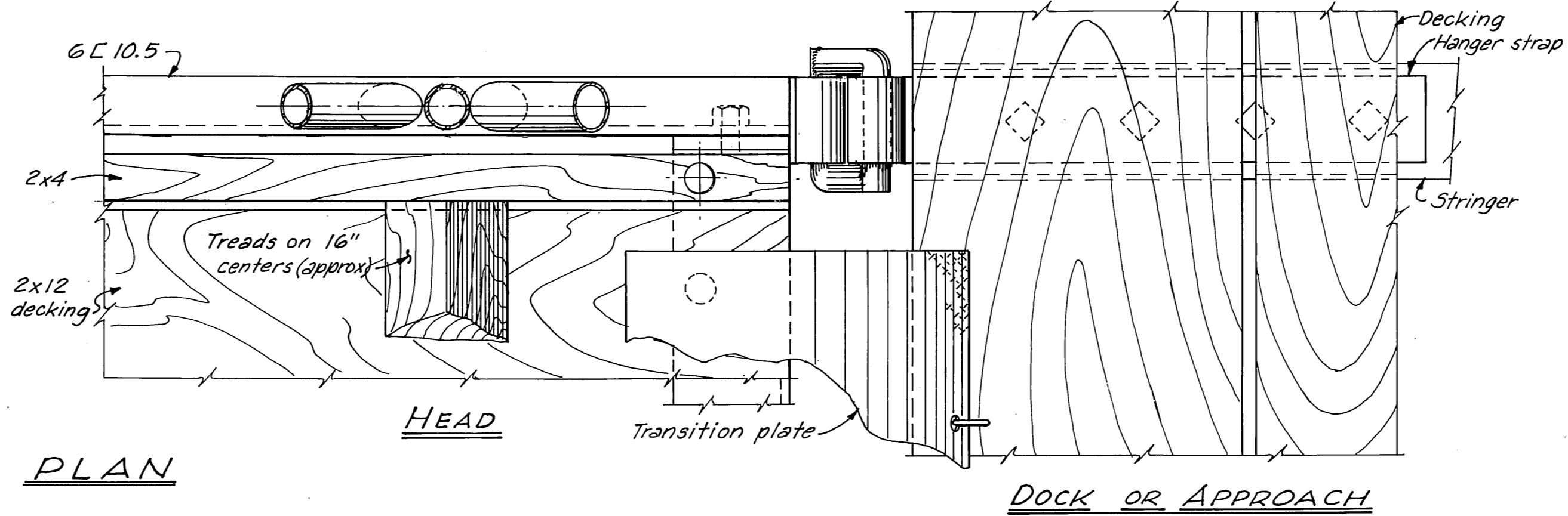
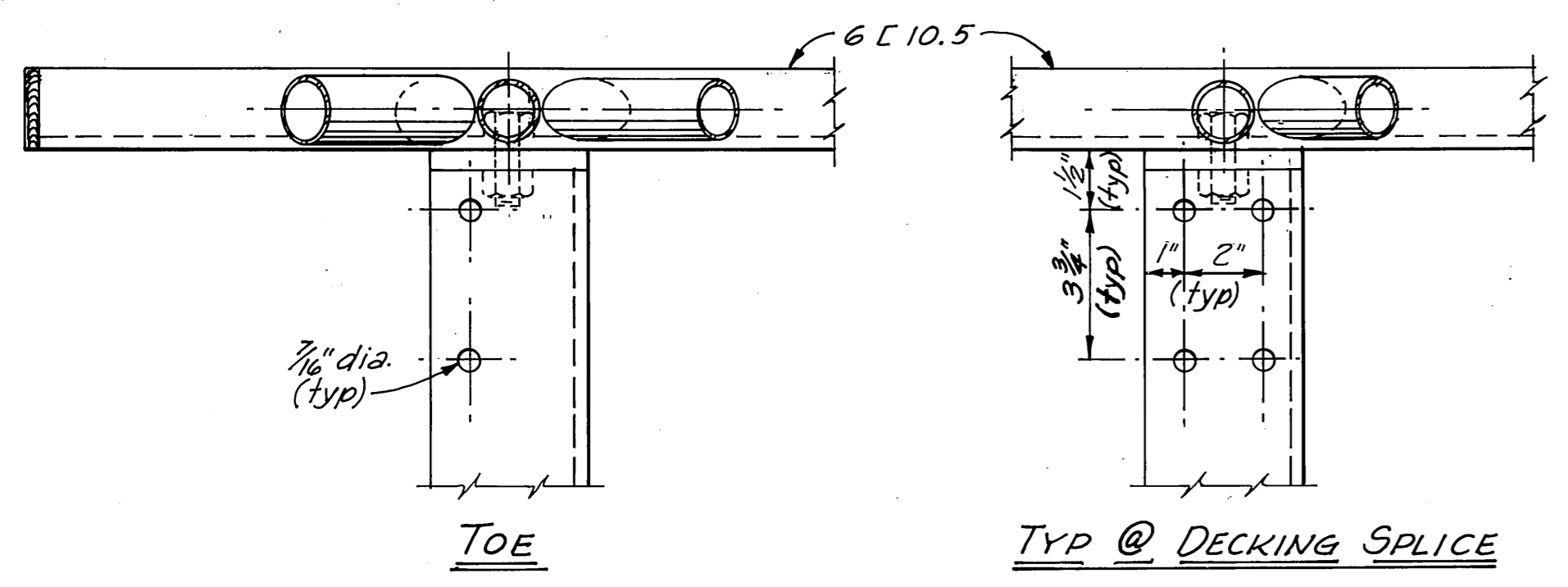
DECKING SPLICE LAYOUT
1/4" = 1'-0"



HANGER STRAP ASSEMBLY
No Scale

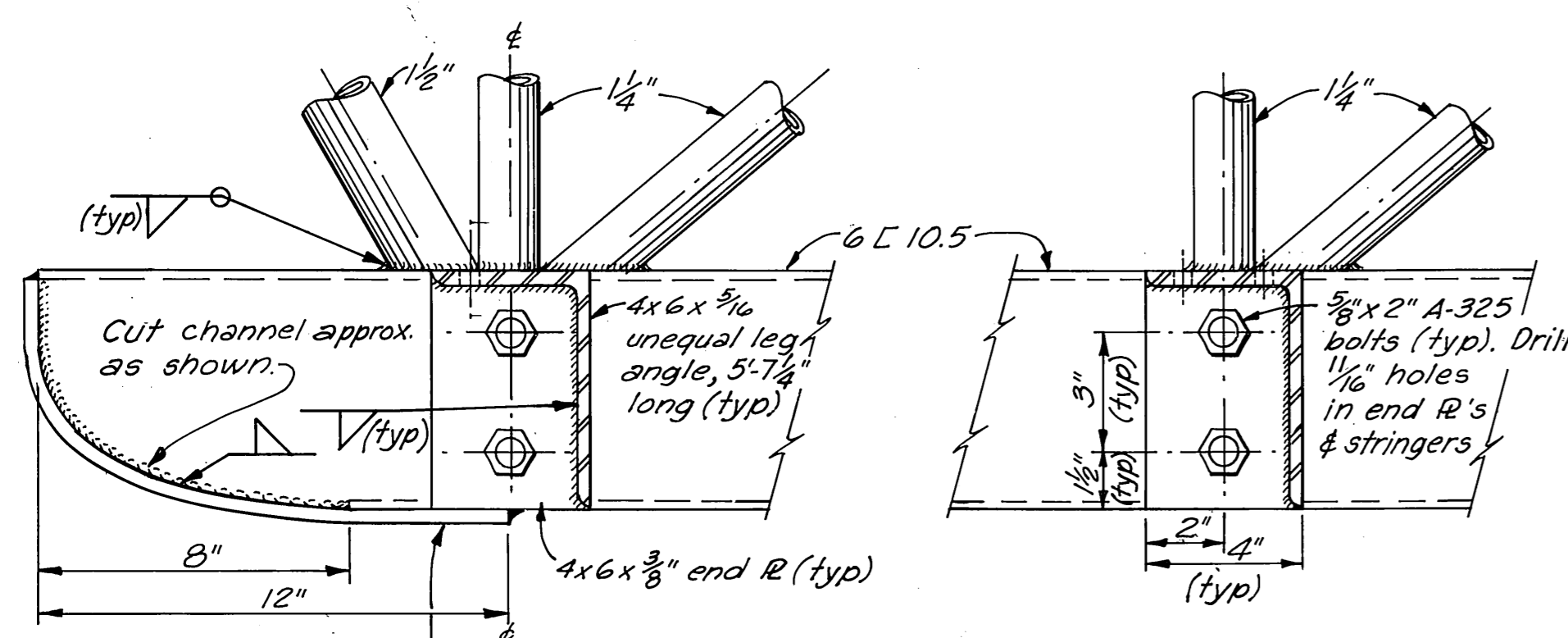


GUIDE RAIL
3/8" = 1'-0"

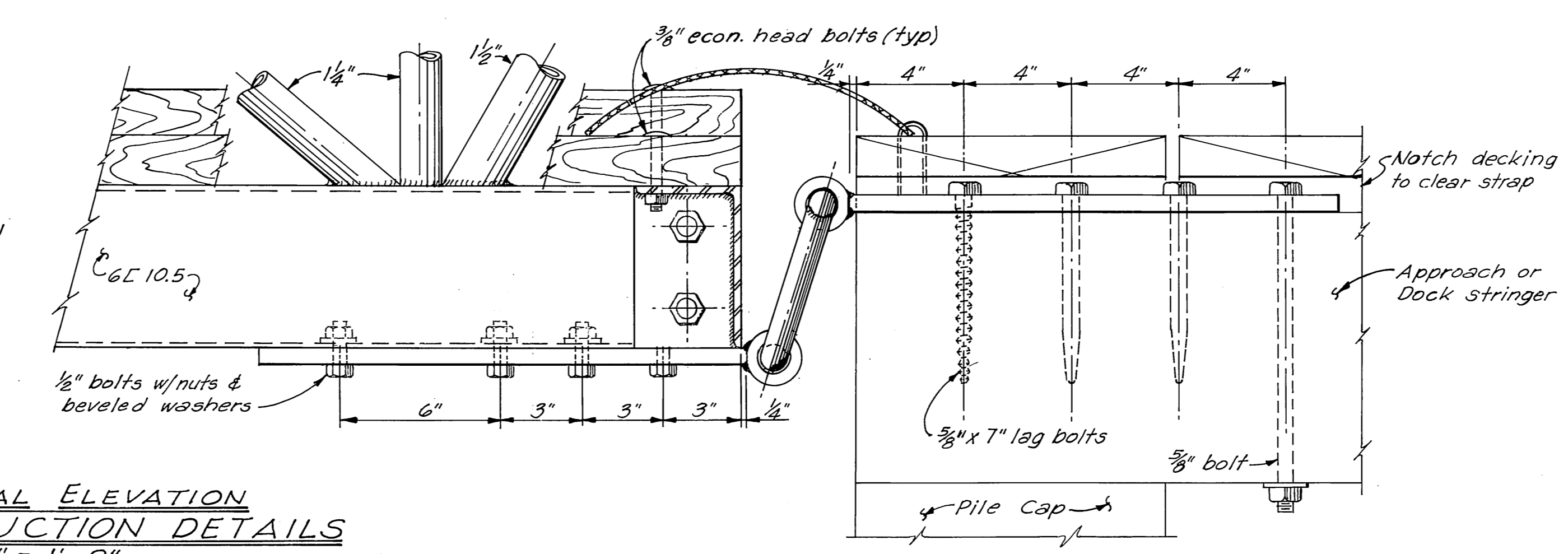


PLAN

DOCK OR APPROACH



SECTIONAL ELEVATION CONSTRUCTION DETAILS
3/8" = 1'-0"



- NOTES:**
1. All seamless pipe shall conform to ASTM A-53.
 2. All channels, angles & plates shall conform to ASTM A-36.
 3. Trusses shall be shop fabricated & assembled including hangers.
 4. 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.
 5. No tubing or channel splices will be permitted within the middle half of the truss structure.
 6. Trusses & transverse beams shall be hot dipped galvanized after fabrication and in accordance with ASTM A-123, A-384, A-385 & A-386.
 7. All steel hardware & fasteners shall be hot dipped galvanized in accordance with ASTM A-153.
 8. Decking & deck spacers shall be construction grade Douglas fir, Pentachlorophenol pressure treated to 0.5lb.cu.ft. retention, and shall be field drilled to match shop drilled holes in transverse members.

Revised 4-7-71. Removed Tension Wires. JET

DO NOT SCALE THIS DRAWING - USE DIMENSIONS

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

TYPICAL STEEL GANGWAY CONSTRUCTION DETAILS

SCALE As shown	SURVEYED	APPROVED
DESIGNED JT/RB	DRAWN JET	Don Statter
CHECKED DSM	DATE Dec. 1970	DIRECTOR
PROJECT NUMBER 3-72131	SHEET 6 OF 6	