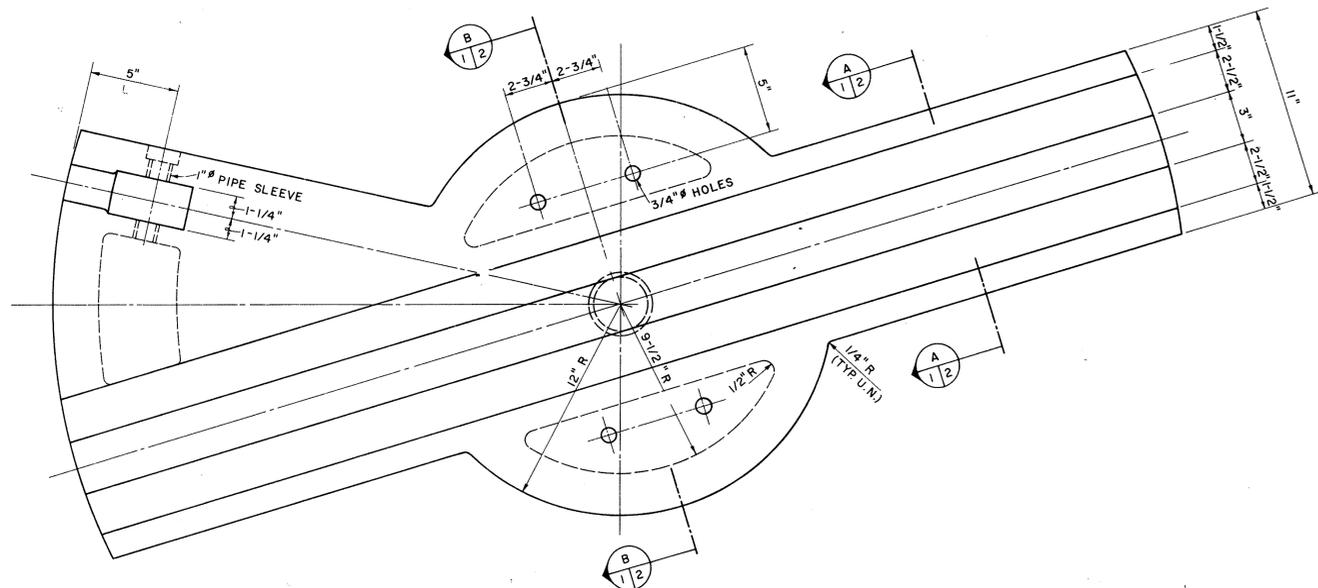


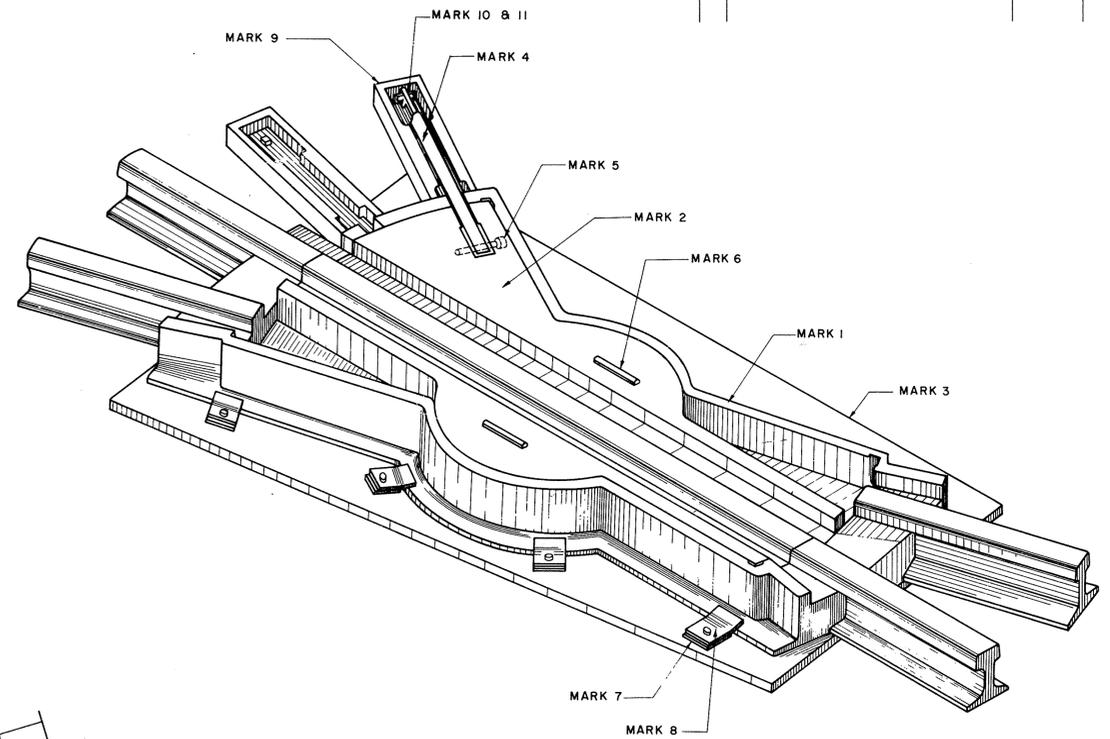
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LET	DESCRIPTION	PREP'D BY	DATE	APPROVED
A	Ver. 1.0		11-7-83	P. W. A.



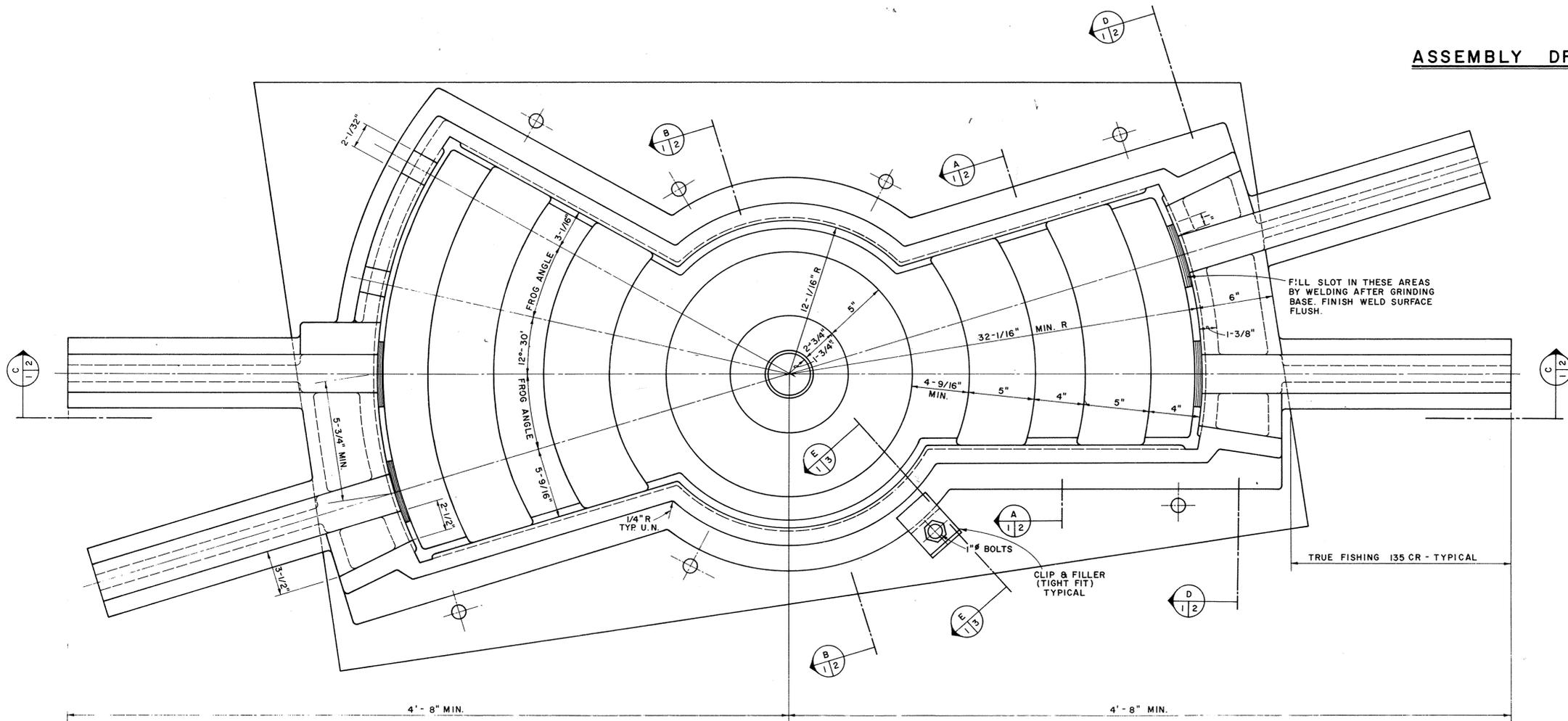
TURNTABLE

SCALE: 3" = 1'-0"

MARK 2, MAKE 1 MANGANESE STEEL



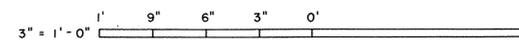
ASSEMBLY DRAWING



BASE: MARK 1, MAKE 1 MANGANESE STEEL
BASE PLATE: MARK 3, MAKE 1 ROLLED STEEL

TURNTABLE BASE AND BASE PLATE

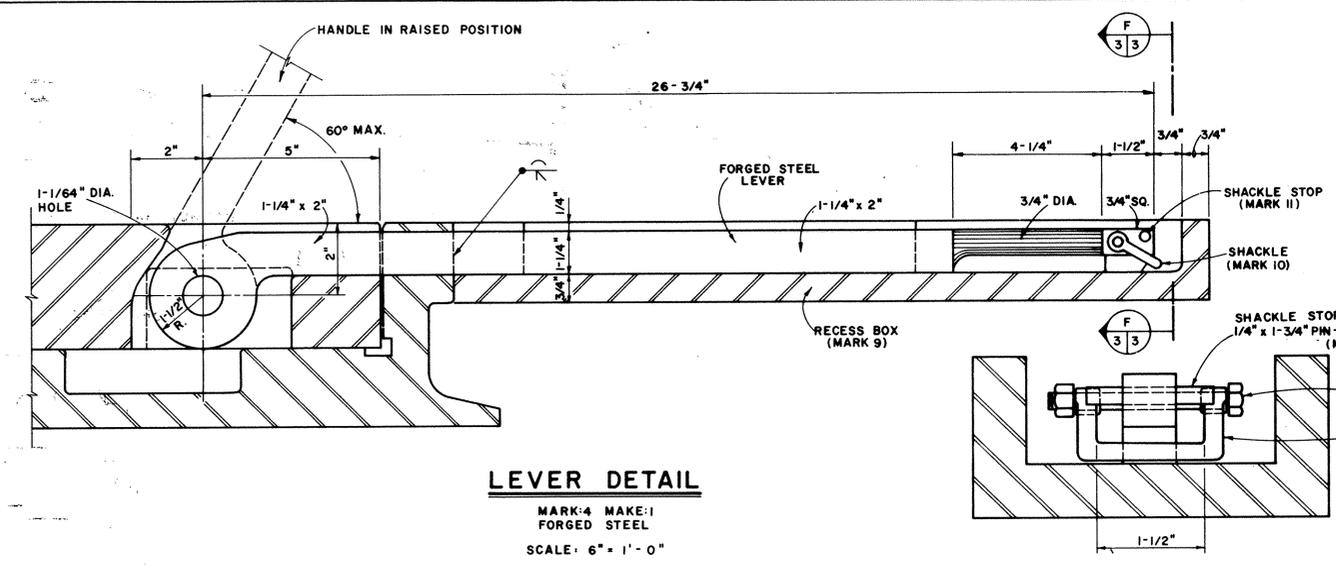
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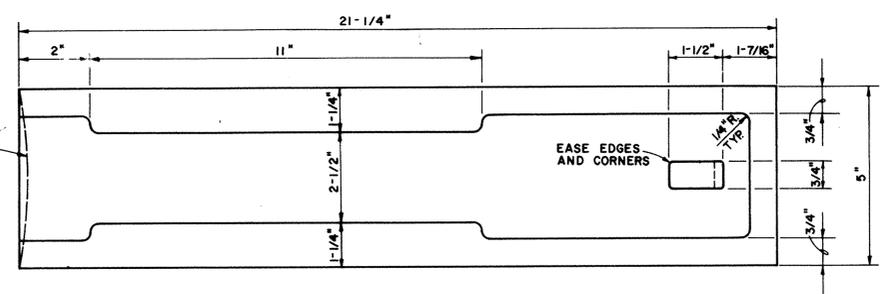
PW 53867

DESIGN: RIVERS, DR FARRELL, CHK SHERIDAN		DEPARTMENT OF THE NAVY		WASHINGTON, D. C.
DRAWN: SHERIDAN, CH ENGR SHERIDAN		NAVAL FACILITIES ENGINEERING COMMAND		
SUBMITTED BY: [Signature]		STANDARD PORTAL CRANE		
DATE: 11/01/83		TURNTABLE FROG		
DRAWN MEMBER TITLE: [Signature]		135 CR		
NAVYAC: [Signature]		SIZE: F	CODE IDENT NO: 80091	NAVYAC DRAWING NO: 1294420
APPROVED: [Signature]		DATE: 11/7/83	CONSTR CONTR NO:	
FOR COMMANDER, NAVFAC		SCALE: AS SHOWN	SPEC: S-T19	SHEET 1 OF 3

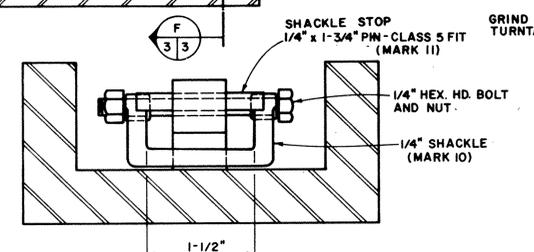
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LET	DESCRIPTION	PREP'D BY	DATE	APPROVED
A	Valid		11-4-58	Rev. 0



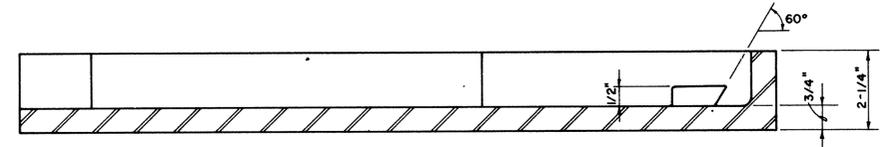
LEVER DETAIL
 MARK: 4 MAKE: 1
 FORGED STEEL
 SCALE: 6" = 1'-0"



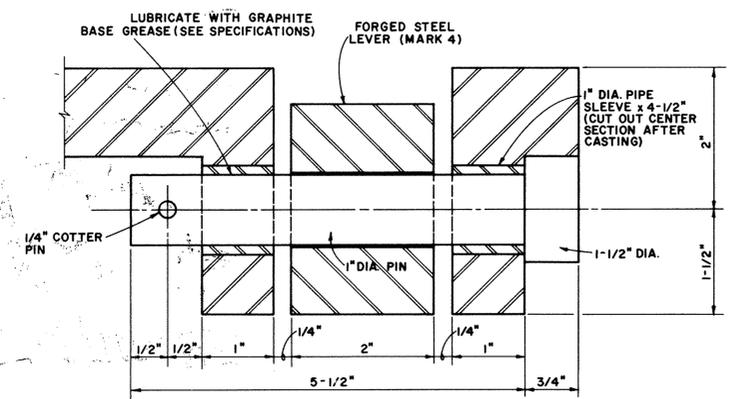
PLAN



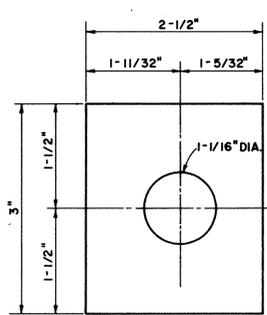
SECTION
 SCALE: FULL SIZE



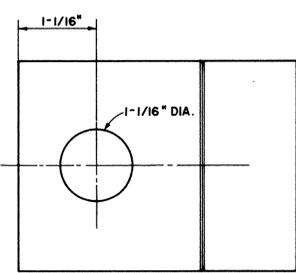
SECTION RECESS BOX
 MARK: 9 MAKE: 2
 CAST STEEL
 SCALE: 6" = 1'-0"



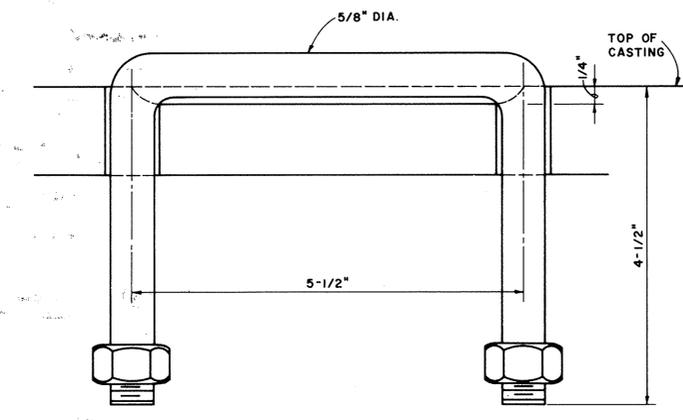
PIN DETAIL
 MARK: 5 MAKE: 1
 SCALE: FULL SIZE



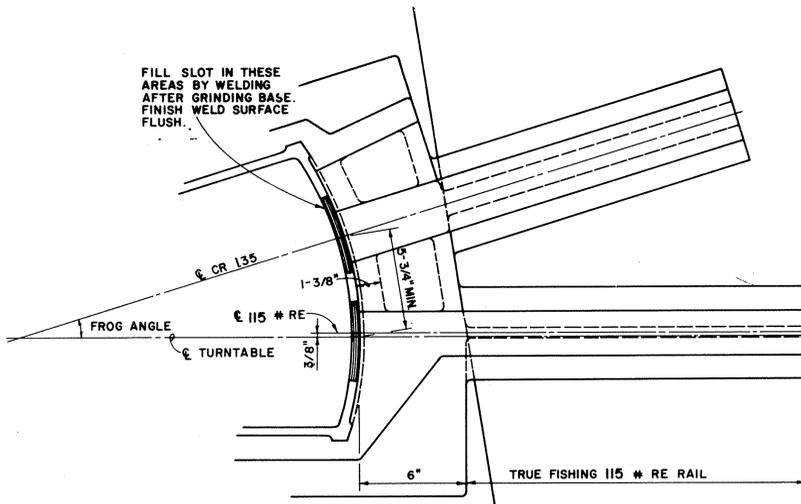
FILLER PLATE
 MARK: 7 MAKE: 8
 STRUCTURAL STEEL
 SCALE: FULL SIZE



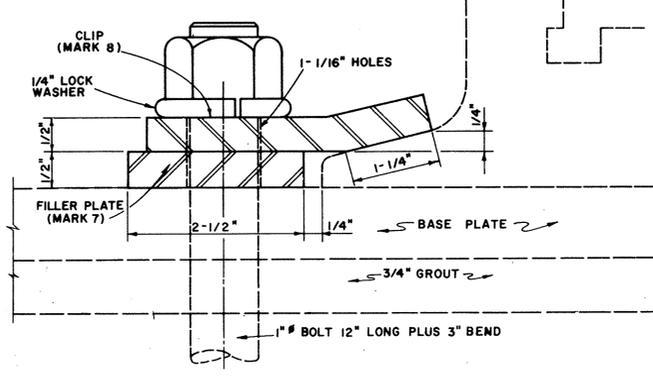
CLIP
 MARK: 8 MAKE: 8
 STRUCTURAL STEEL
 SCALE: FULL SIZE



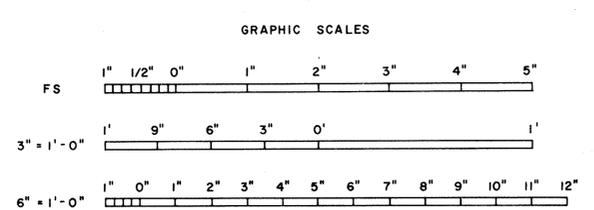
HANDLE DETAIL
 MARK: 6 MAKE: 2
 SCALE: FULL SIZE



PART PLAN SHOWING COMPROMISE JOINT TO I15 # RE FOR RAILROAD
 SCALE: 3" = 1'-0"

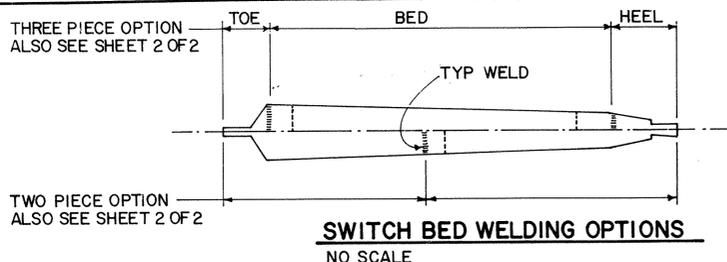


SECTION
 SCALE: FULL SIZE



P.W. 53869 THE SHERIDAN CORPORATION CORPUS CHRISTI, TEXAS ENGINEERS		DEPARTMENT OF THE NAVY NAVAL FACILITIES ENGINEERING COMMAND WASHINGTON, D. C.	
DSGN RIVERS DR FARRELL CHK SHERIDAN SUPY SHERIDAN CH ENGR SHERIDAN SUBMITTED BY DATE FIRM MEMBER (TITLE) 2/2/58 NAVFAC RYO 2/2/58 HD. Engr. P.E. DIR. Engr. P.E.		STANDARD PORTAL CRANE TURNABLE FROG 135 CR	
APPROVED OFFICER IN CHARGE APPROVED DATE FOR COMMANDER, NAVFAC		DATE SIZE CODE IDENT NO. NAVFAC DRAWING NO. F 80091 1294422 CONSTR CONTR NO. SCALE AS SHOWN SPEC S-T19 SHEET 3 OF 3	

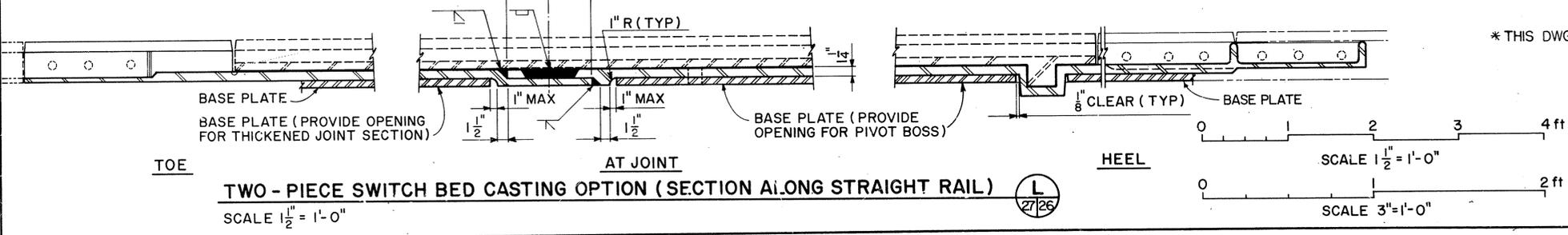
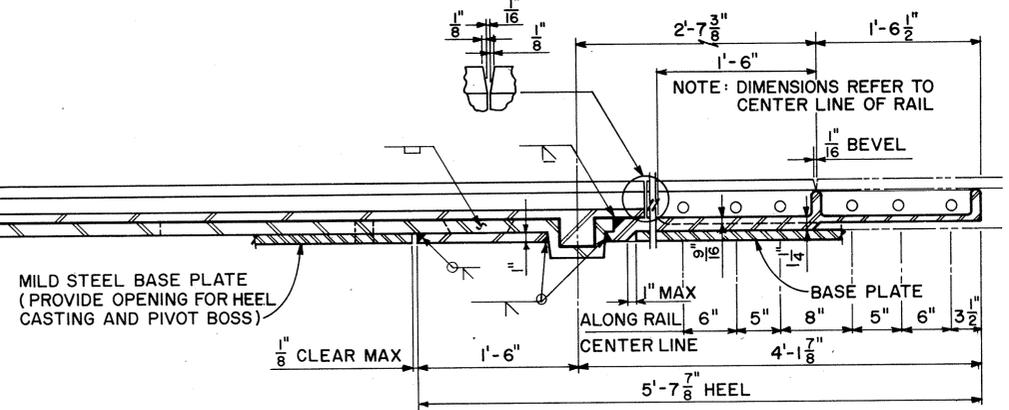
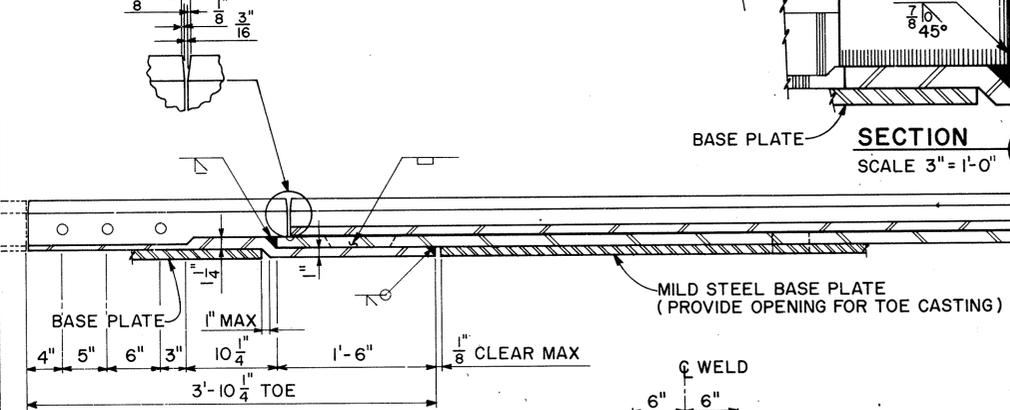
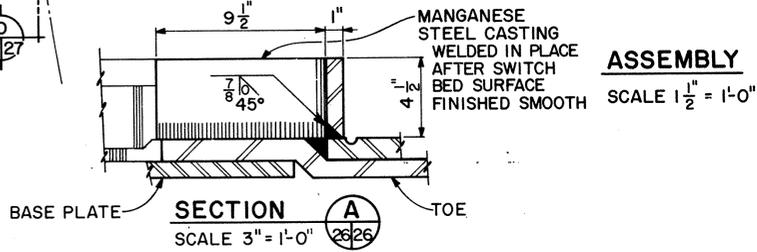
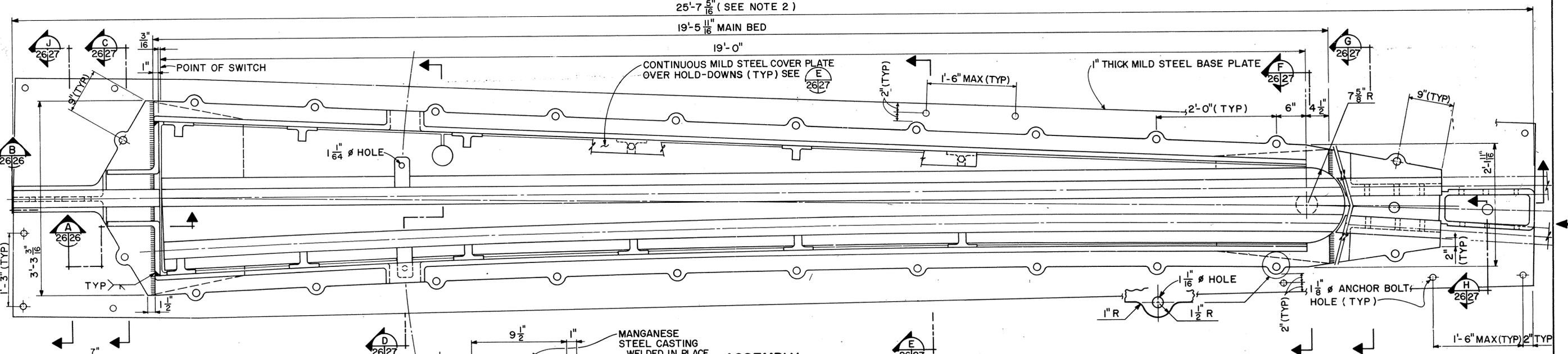
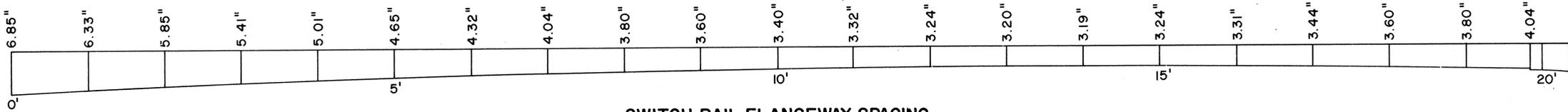
FILM



- NOTES**
- SWITCH GEOMETRY AS SHOWN FOR SWITCH CURVE RADIUS OF 300 FEET.
 - SWITCH BED COMPOSED OF TWO OPTIONS:
- THREE COMPONENT CASTINGS, WELDED TOGETHER:
a. MAIN BED
b. TOE OF SWITCH
c. HEEL OF SWITCH
- TWO COMPONENT CASTINGS, WELDED TOGETHER.

- DESIGN CRITERIA FOR THIS FITTING:
- 100 KIP VERTICAL WHEEL LOAD ON 3'-6" CENTERS.
- 15 KIP HORIZONTAL WHEEL LOAD ON 3'-6" CENTERS.
- CRANE WHEEL SIZE: TREAD - 4 1/2" WIDE.
FLANGES - 1 1/4" WIDE x 1 1/8" DEEP.
- ALL SLOT WELDS ARE COUNTERSUNK 60°
- ALL SINGLE BEVEL GROOVE WELDS ARE 45°; FULL PENETRATION UNLESS NOTED OTHERWISE.
- SWITCH DRAWN FOR RIGHT HAND TURNOUT; LEFT HAND TURNOUT SIMILAR.

REVISIONS				
SYM	DESCRIPTION	PREP BY	DATE	APPROVED



* THIS DWG. SUPERSEDES NAVFAC DWG. # 1403502

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SCALE REDUCED ACCORDINGLY



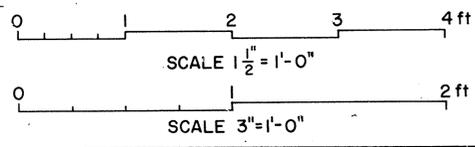
TUDOR
ENGINEERING COMPANY

DESIGN: A.W. DR: J.T. CHK: B.V.
SUPV: G.B. CH ENGR: J.W.
FIRM MEMBER (TITLE) DATE
WESTERN DIVISION NAVFAC
RVD: J.W. DIR: J.W.
APPROVED: J.W. DATE: 11-1-83
FOR COMMANDER NAVFAC

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING COMMAND
200 STOVALL STREET
ALEXANDRIA, VA. 22332

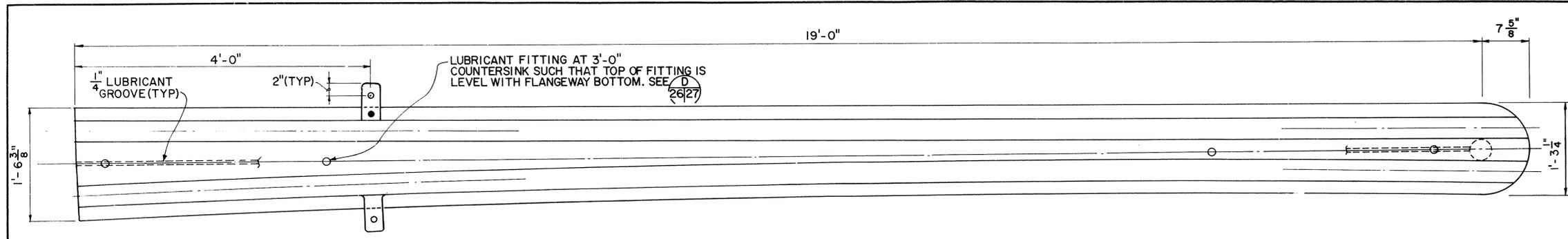
STANDARD DRAWING
MANGANESE STEEL CASTING
PORTAL CRANE TRACK SWITCH
ASSEMBLY

SIZE: 80091
NAVFAC DRAWING NO. 1403326
SCALE: AS NOTED SPEC SHEET 1 OF 2

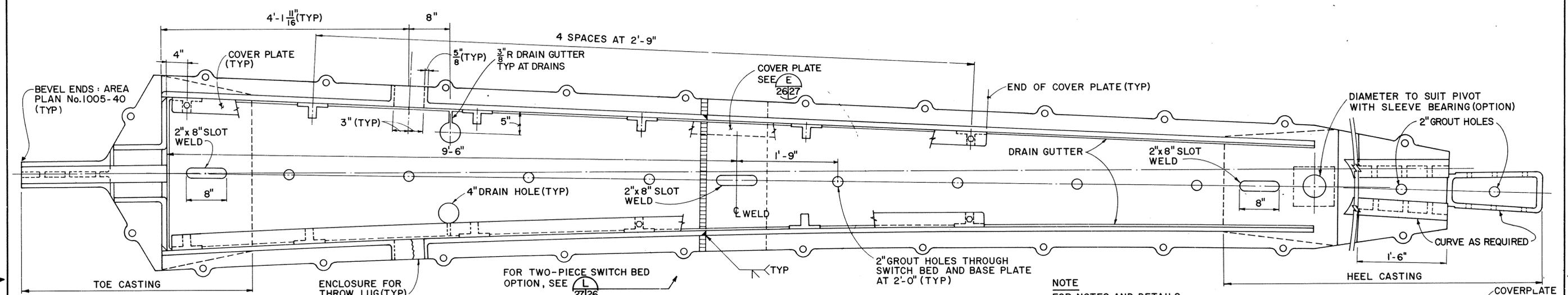


453870

REVISIONS				
SYM	DESCRIPTION	PREP'D BY	DATE	APPROVED

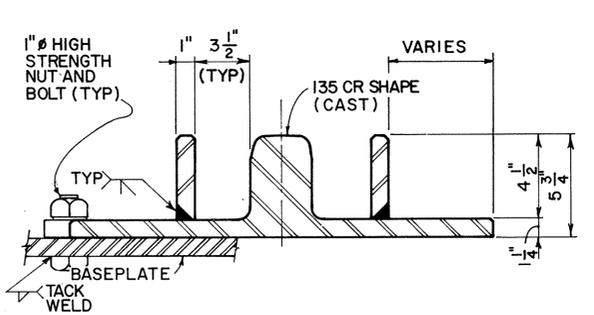


SWITCH TONGUE - CAST MANGANESE STEEL
SCALE: 1 1/2" = 1'-0"

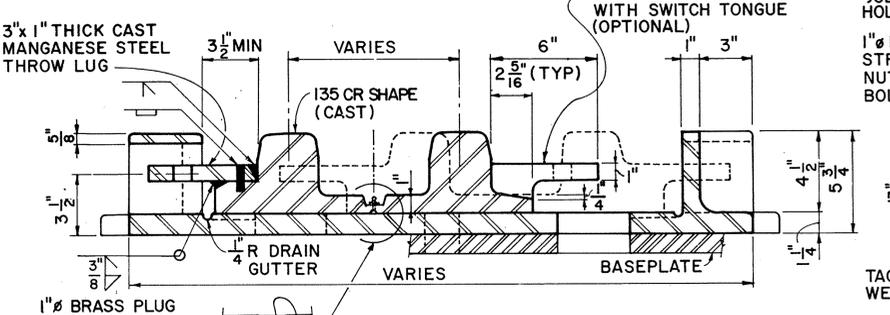


SWITCH BED - CAST MANGANESE STEEL
SCALE: 1 1/2" = 1'-0"

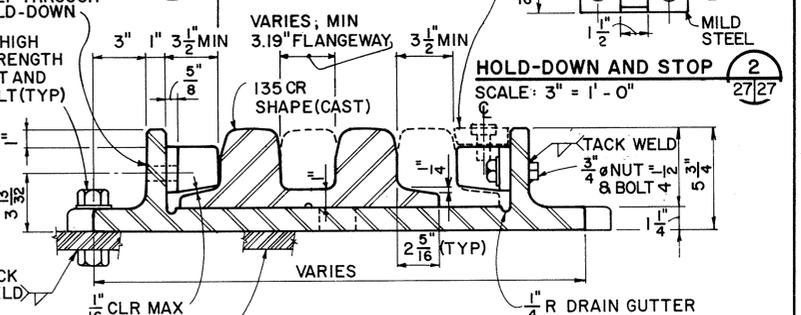
NOTE
FOR NOTES AND DETAILS
NOT SHOWN, SEE SHEET 1 OF 2



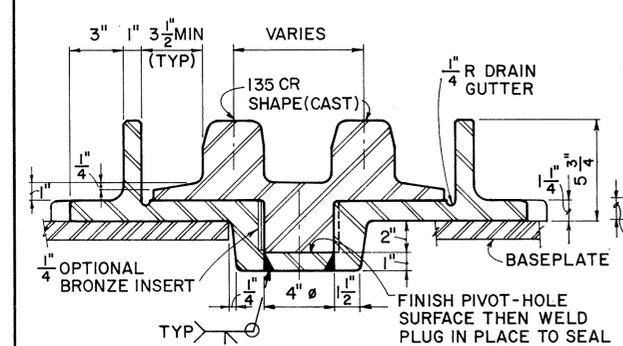
SECTION C
SCALE: 3" = 1'-0" 26/27



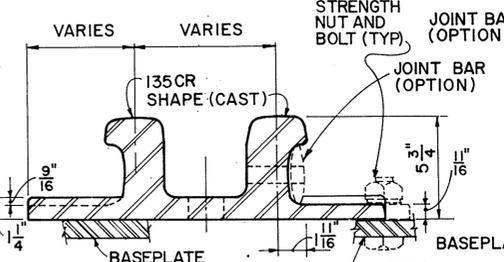
SECTION D
SCALE: 3" = 1'-0" 26/27



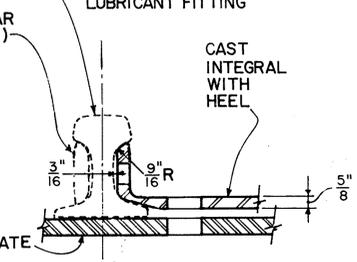
SECTION E
SCALE: 3" = 1'-0" 26/27



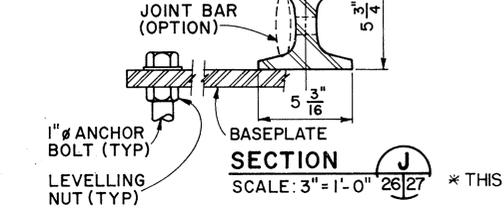
SECTION F
SCALE: 3" = 1'-0" 26/27



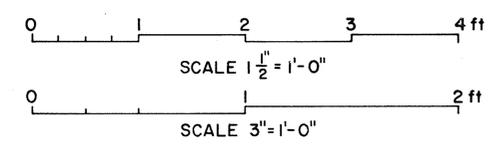
SECTION G
SCALE: 3" = 1'-0" 26/27



SECTION H
SCALE: 3" = 1'-0" 26/27



SECTION J
SCALE: 3" = 1'-0" 26/27



* THIS DWG. SUPERSEDES NAVFAC DWG. No. 1403503

IF SHEET IS LESS THAN 28" X 40" IT IS A REDUCED PRINT - SCALE REDUCED ACCORDINGLY

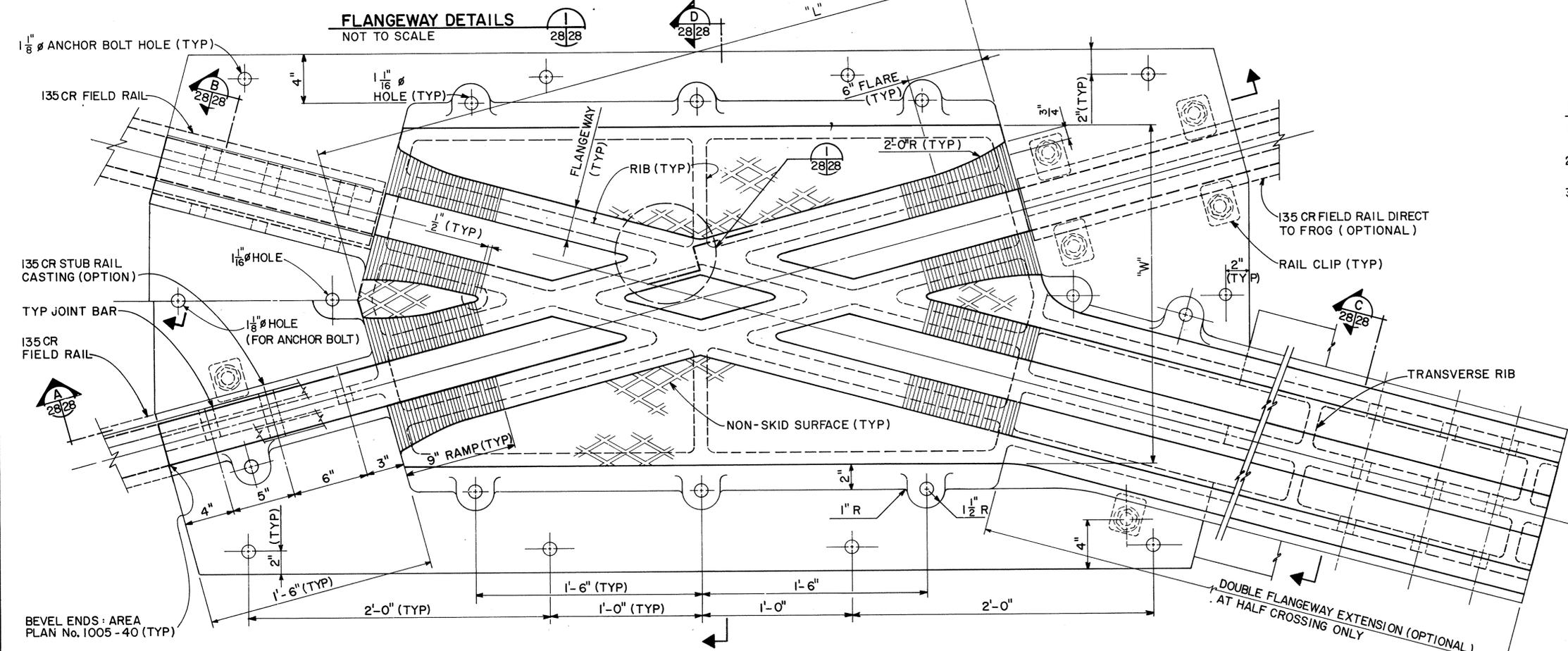
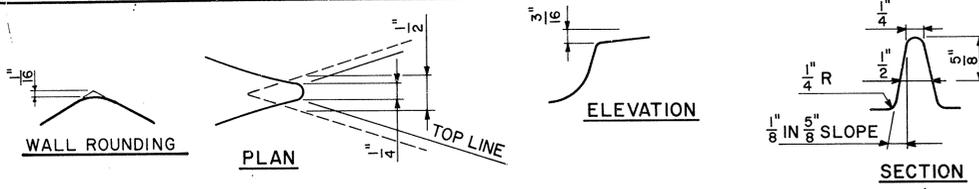


TUDOR
ENGINEERING COMPANY
DESIGN: [Signature]
CHECKED: [Signature]
DATE: 11-21-83

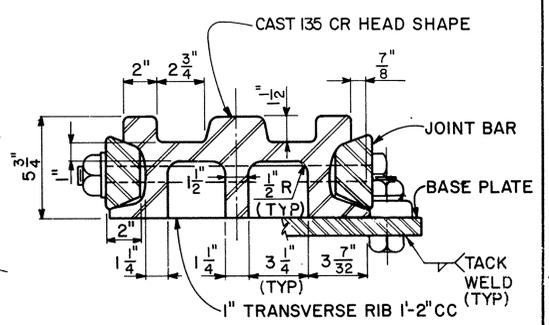
DEPARTMENT OF THE NAVY NAVAL FACILITIES ENGINEERING COMMAND 200 STOVALL STREET ALEXANDRIA, VA. 22332	
STANDARD DRAWING MANGANESE STEEL CASTING PORTAL CRANE TRACK SWITCH DETAILS	
SIZE: 80091	NAVFAC DRAWING NO. 1403327
SCALE: AS NOTED	SPEC
SHEET 2 OF 2	

P.W. 53871

REVISIONS				
SYM	DESCRIPTION	PREP'D BY	DATE	APPROVED



- NOTES:
- LENGTH AND WIDTH DIMENSIONS VARY ACCORDING TO FROG ANGLE (SEE TABLE "A" FOR RANGE OF VALUES.)
 - PROVIDE RAILROAD TYPE GUARD RAIL OPPOSITE FROG WITH USE OF STANDARD GAGE TRACK
 - DESIGN CRITERIA FOR THIS FITTING:
 - 100 KIP VERTICAL WHEEL LOAD ON 3'-6" CENTERS
 - 15 KIP HORIZONTAL WHEEL LOAD ON 3'-6" CENTERS
- CRANE WHEEL SIZE:
- TREAD - 4 1/2" WIDE
- FLANGES - 1 1/4" WIDE x 1 1/8" DEEP



CAST MANGANESE CROSSING FROG - DOUBLE / DOUBLE FLANGEWAY
SCALE: 3" = 1'-0"

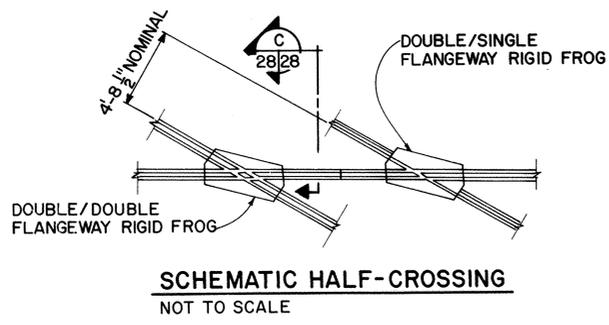
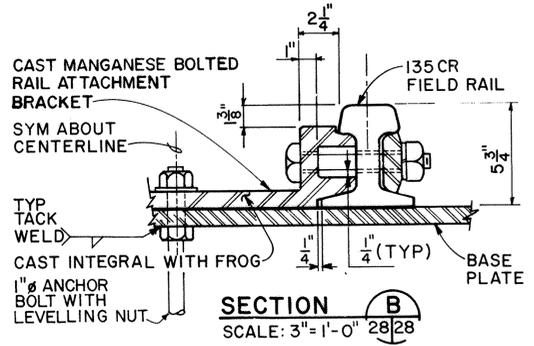
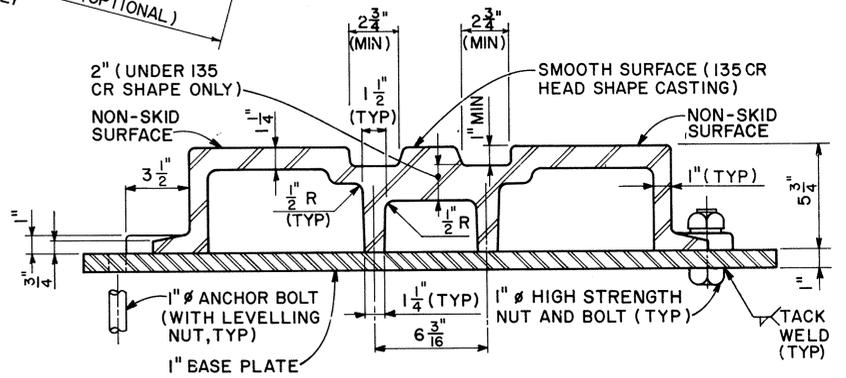
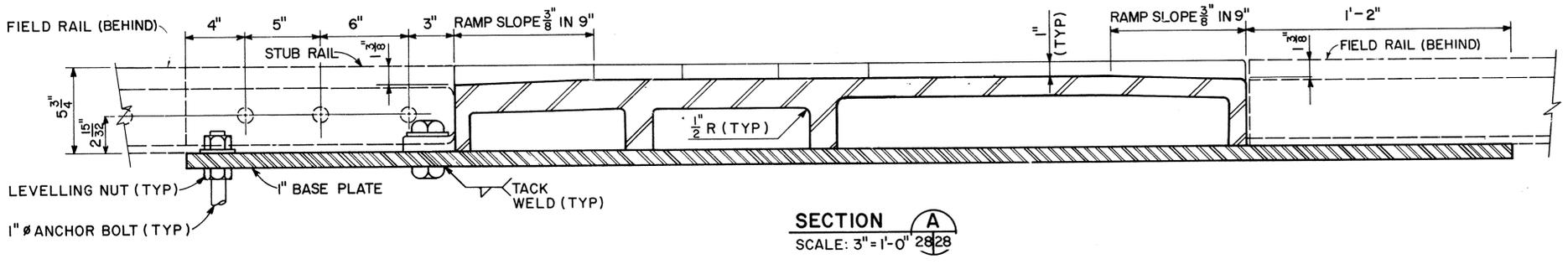
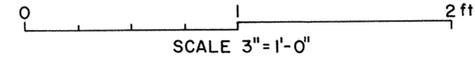
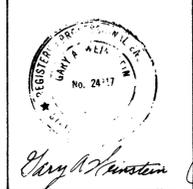


TABLE "A"

FROG ANGLE	MINIMUM	
	LENGTH (L)	WIDTH (W)
20°	5'-6"	2'-0"
30°	4'-6"	2'-3"
45°	4'-0"	2'-6"
60°	3'-6"	3'-0"
90°	3'-0"	3'-0"



PW 53872



TUDOR
ENGINEERING COMPANY
DESIGN, DRAWING, CONSTRUCTION, MAINTENANCE, REPAIR, AND RECONSTRUCTION OF ALL TYPES OF STRUCTURES AND EQUIPMENT.
REGISTERED PROFESSIONAL ENGINEER
STATE OF VIRGINIA
No. 28117

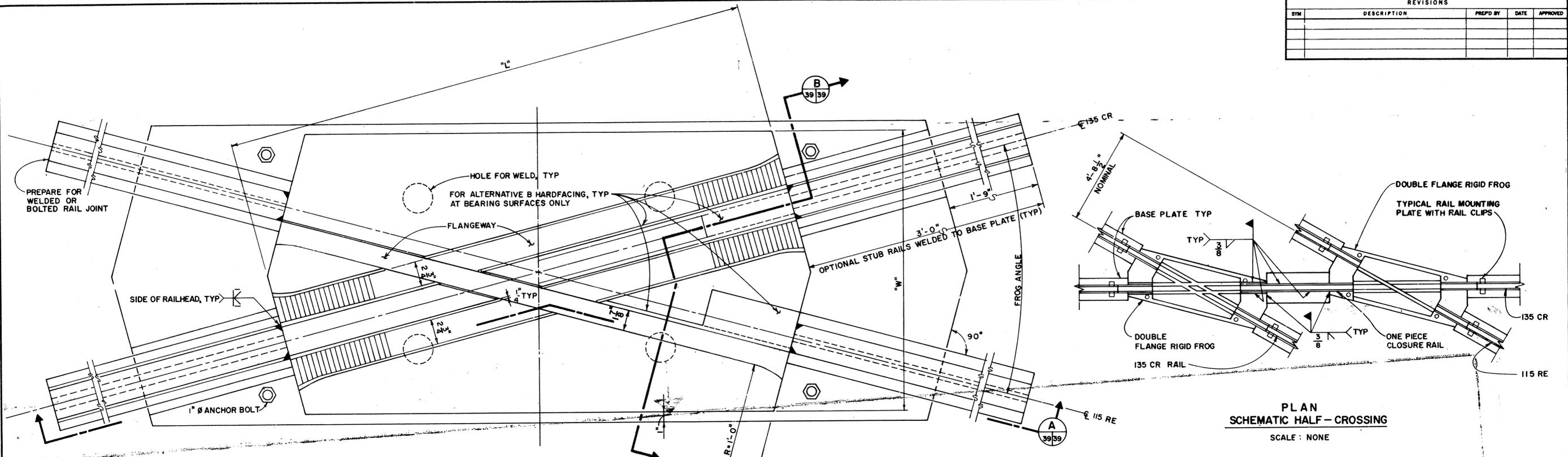
IF SHEET IS LESS THAN 28" X 40" IT IS A REDUCED PRINT - SCALE REDUCED ACCORDINGLY

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING COMMAND
200 STOVALL STREET ALEXANDRIA, VA. 22332

STANDARD DRAWING
MANGANESE STEEL CASTING PORTAL CRANE TRACK RIGID FROG FOR INTERSECTION OF 135 CR WITH 135 CR

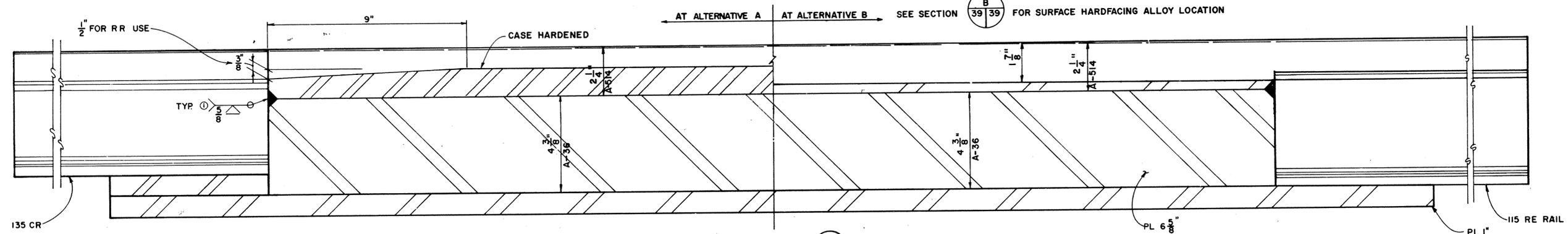
SIZE: 80901
NAVFAC DRAWING NO. 1403328
SHEET 1 OF 1

REVISIONS				
SYM	DESCRIPTION	PREP'D BY	DATE	APPROVED

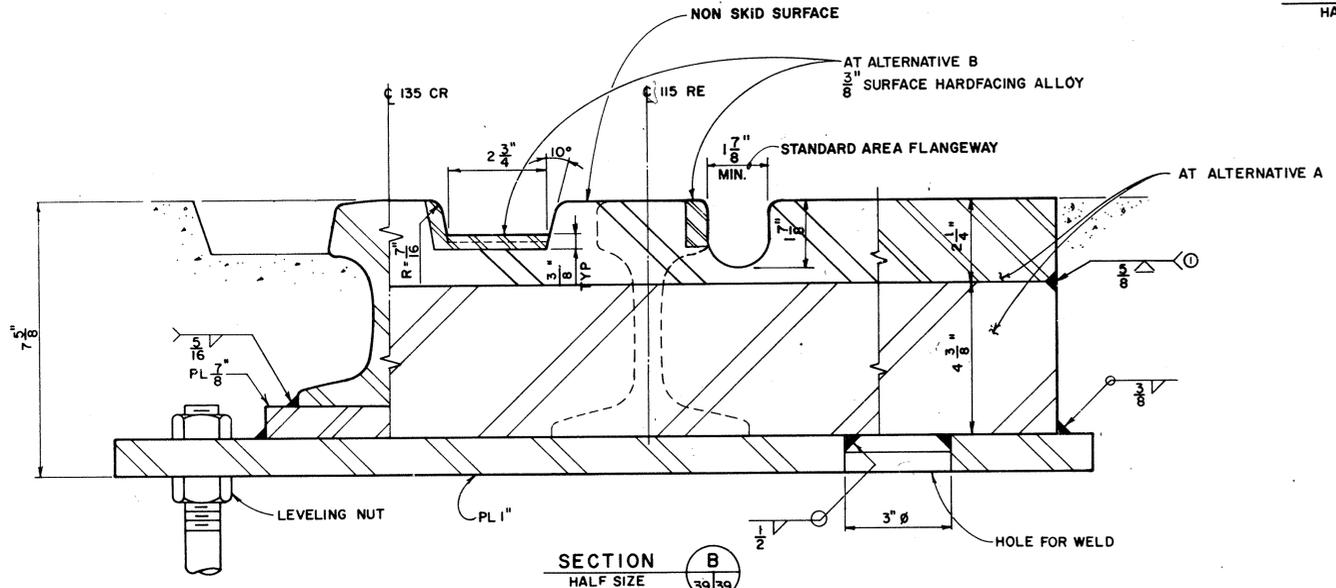


PLAN
SCALE: 3" = 1'-0"

PLAN
SCHEMATIC HALF - CROSSING
SCALE: NONE



SECTION A
HALF SIZE



SECTION B
HALF SIZE

WELD NOTES:

① E 11018

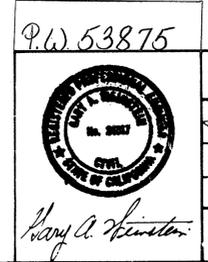
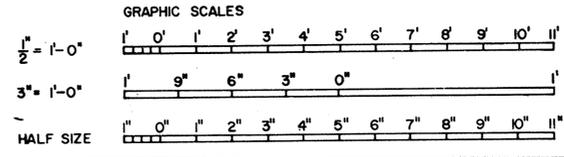
TABLE "A"

FROG ANGLE	MINIMUM LENGTH (L)	MINIMUM WIDTH (W)
20°	5'-6"	2'-0"
30°	4'-6"	2'-3"
45°	4'-0"	2'-6"
60°	3'-6"	3'-0"
90°	3'-0"	3'-0"

NOTES:

- LENGTH AND WIDTH DIMENSIONS VARY ACCORDING TO FROG ANGLE. (SEE TABLE "A" FOR RANGE OF VALUES.)
- DESIGN CRITERIA FOR THIS FITTING:
 - 100 KIP VERTICAL WHEEL LOAD ON 3'-6" CENTERS
 - 15 KIP HORIZONTAL WHEEL LOAD ON 3'-6" CENTERS
 - CRANE WHEEL SIZE: TREAD - 4 1/2" WIDE
FLANGES - 1 1/4" WIDE x 1 1/8" DEEP.
- PROVIDE RAILROAD TYPE GUARD RAIL OPPOSITE FROG WITH USE OF STANDARD GAGE TRACK.
- ALTERNATE B: USE 3/8" HARDFACING AT GAGELINE ONLY.
- ALTERNATIVE A OR B ARE TO BE FABRICATOR'S OPTION.

IF SHEET IS LESS THAN 28" X 40" IT IS A REDUCED PRINT - SCALE REDUCED ACCORDINGLY

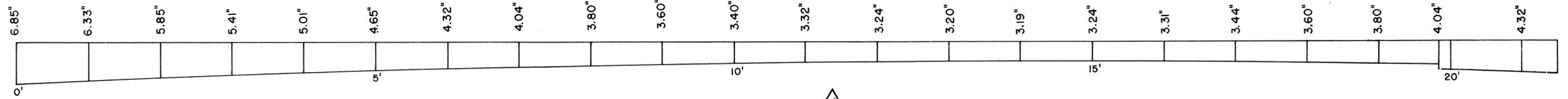


TUDOR ENGINEERING COMPANY
DESIGN: DR. ENGR. C. W. ...
FIRM MEMBER (TITLE) DATE
WESTERN DIVISION NAVFAC
RVD ...
HD ...
APPROVED: DATE 11-21-83
EIR COMMANDER NAVFAC

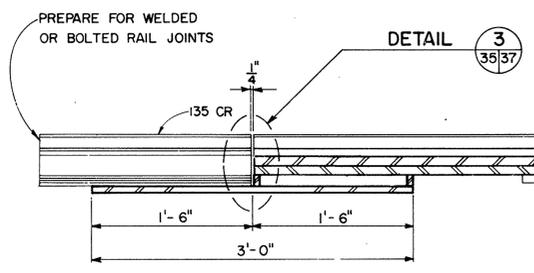
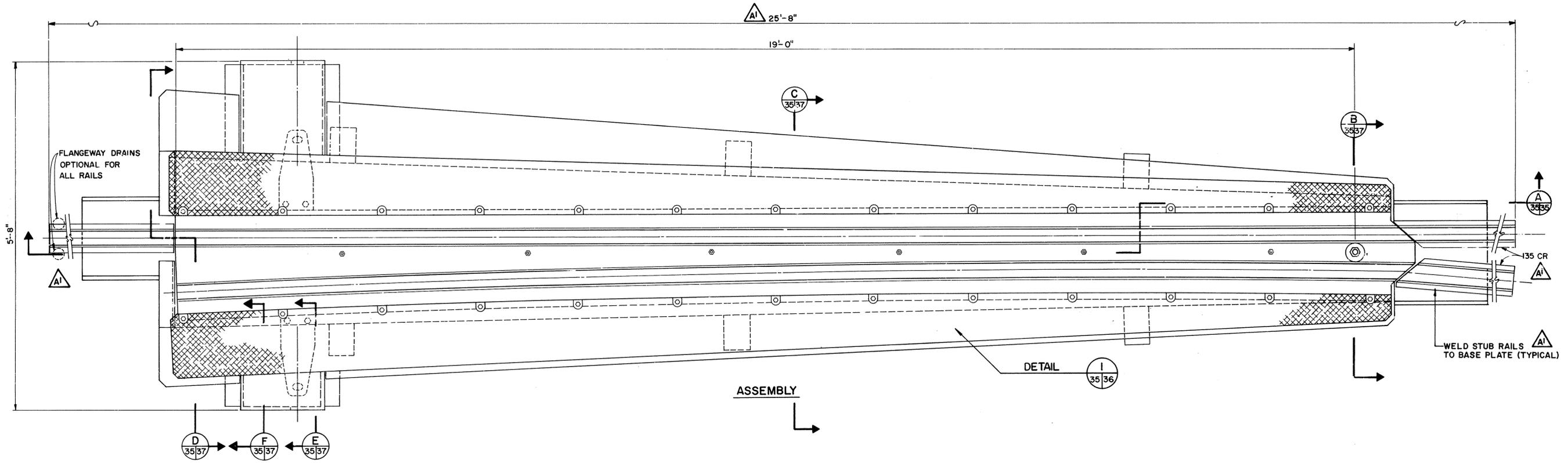
DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING COMMAND
200 STOVALL STREET ALEXANDRIA, VA. 22332
STANDARD DRAWING FABRICATED
PORTAL CRANE TRACK FROG
FOR INTERSECTION OF 135CR WITH 115RE (NON RAMPED)
SIZE CODE IDENT. NO. 80091 NAVFAC DRAWING NO. 1403331
SCALE: AS NOTED SHEET 1 OF 1

11/21/83

REVISIONS				
SYM	DESCRIPTION	PREP BY	DATE	APPROVED
△A	FLANGEWAY SPACING VALUES CHANGED REVISED ASSEMBLY PLAN; DELETED NOTE 4	VFC	11-4-83	

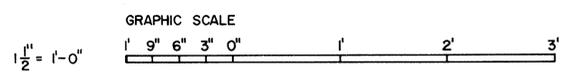


FLANGEWAY SPACING △A
 FOR 300' RADIUS SWITCH CURVE
 OFFSET TOLERANCE $\pm \frac{1}{16}$ "



SECTION A 35/35

- NOTES:
- SWITCH GEOMETRY AS SHOWN FOR SWITCH CURVE RADIUS OF 300'.
 - FOR SWITCH THROW LINKAGE SEE NAVFAC DRAWING NO. 1404042
 - DESIGN CRITERIA FOR THIS FITTING:
 - 100 KIP VERTICAL WHEEL LOAD ON 3'-6" CENTERS
 - 15 KIP HORIZONTAL WHEEL LOAD ON 3'-6" CENTERS
 - CRANE WHEEL SIZE: TREAD-4 1/2" WIDE
 - FLANGES-1 1/4" WIDE x 1 1/8" DEEP.



P.W. 53876

GARY A. WEINSTEIN
 No. 24317
 CIVIL
 STATE OF CALIFORNIA

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DEPARTMENT OF THE NAVY
 NAVAL FACILITIES ENGINEERING COMMAND
 200 STOVALL STREET ALEXANDRIA, VA. 22332

STANDARD DRAWING
 FABRICATED
 PORTAL CRANE TRACK SWITCH
 ASSEMBLY

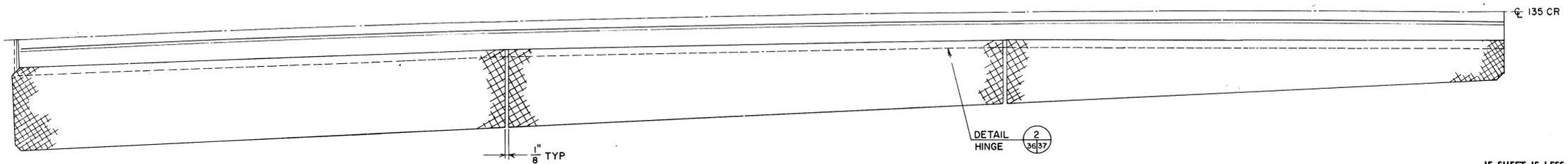
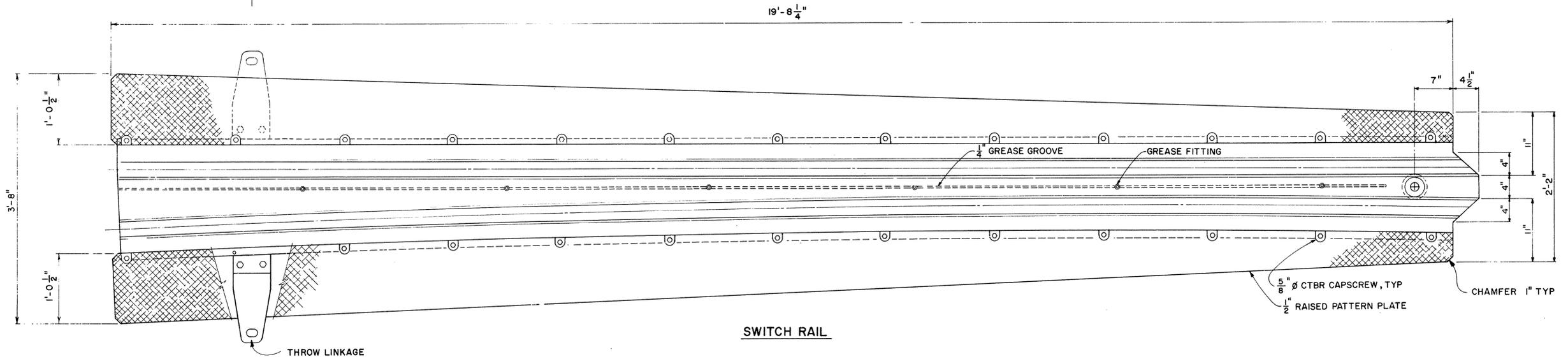
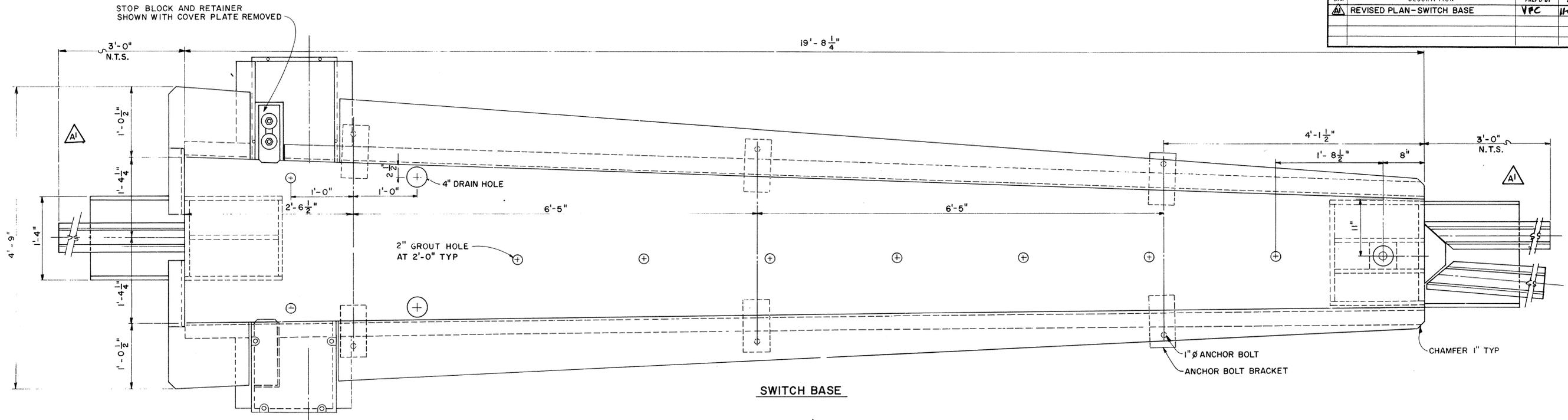
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 FOR COMMANDER NAVFAC

SCALE: 1/2" = 1'-0"

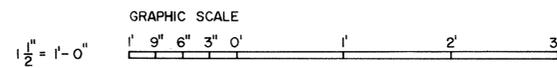
SHEET 1 OF 3

05 FILM

REVISIONS				
SYM	DESCRIPTION	PREP'D BY	DATE	APPROVED
A1	REVISED PLAN-SWITCH BASE	VPC	11-4-83	



DETAIL
OPTIONAL HINGED COVER PLATES 35/36



IF SHEET IS LESS THAN 28" X 40" IT IS A REDUCED PRINT — SCALE REDUCED ACCORDINGLY

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING COMMAND
200 STOVALL STREET ALEXANDRIA, VA. 22332

STANDARD DRAWING
FABRICATED
PORTAL CRANE TRACK SWITCH
SWITCH BASE & SWITCH RAIL

80091

1404036

SCALE: 1/2" = 1'-0"

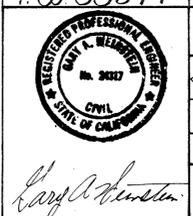
SHEET 2 OF 3

DATE 3/22

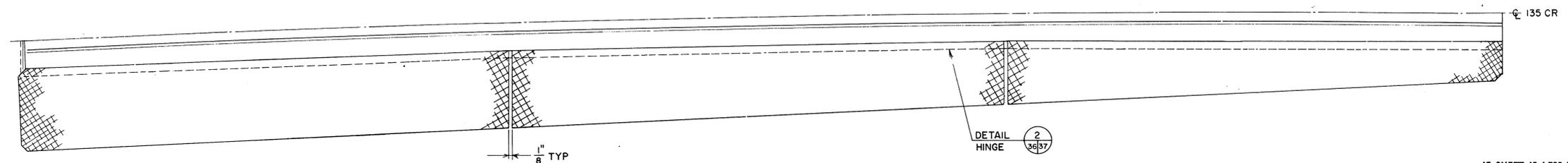
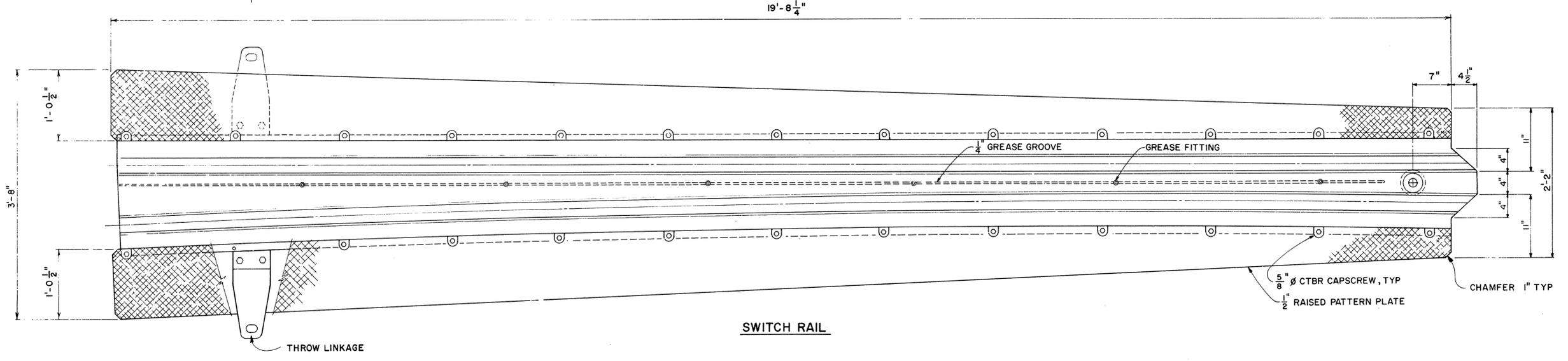
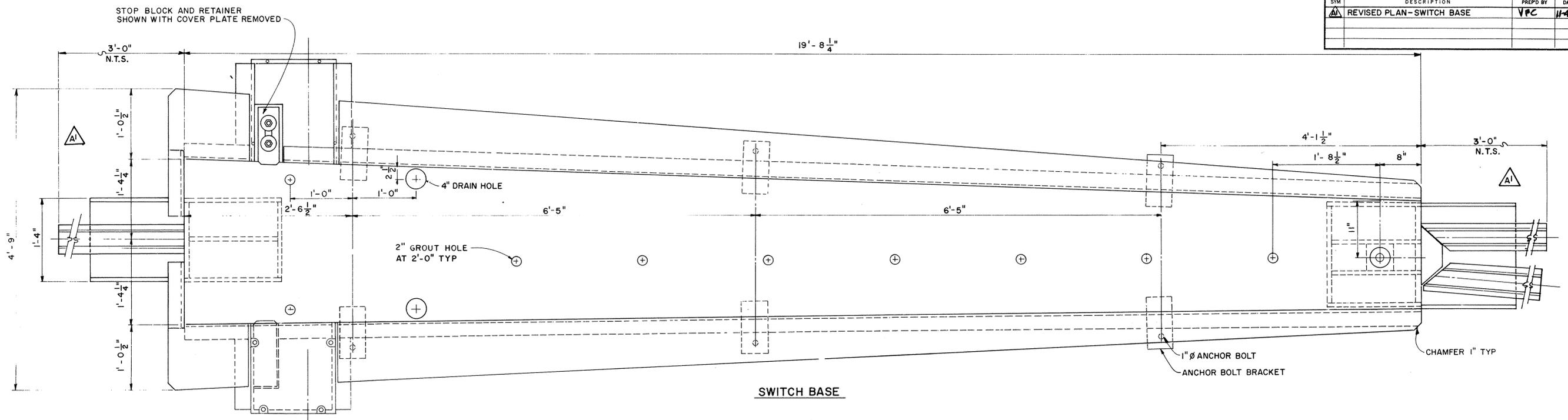
APPROVED [Signature]

FOR COMMANDER NAVFAC

NAVAC DRAWING NO. 1404036



REVISIONS				
SYM	DESCRIPTION	PREP'D BY	DATE	APPROVED
A1	REVISED PLAN-SWITCH BASE	VPC	11-4-83	



DETAIL
OPTIONAL HINGED COVER PLATES 35/36



IF SHEET IS LESS THAN 28" X 40" IT IS A REDUCED PRINT — SCALE REDUCED ACCORDINGLY

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING COMMAND
200 STOVALL STREET ALEXANDRIA, VA. 22332

STANDARD DRAWING
FABRICATED
PORTAL CRANE TRACK SWITCH
SWITCH BASE & SWITCH RAIL

80091

1404036

SCALE: 1/2" = 1'-0"

SHEET 2 OF 3

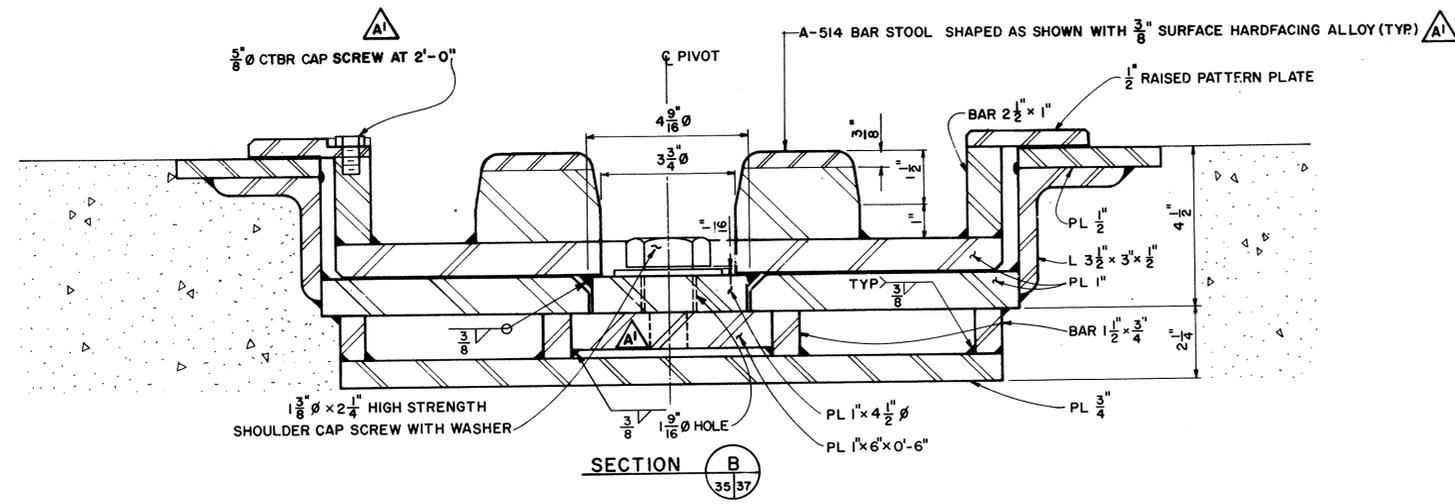
REGISTERED PROFESSIONAL ENGINEER
RAY A. WELLS
No. 26327
CIVIL
STATE OF CALIFORNIA

TUDOR ENGINEERING COMPANY
COLLEGE ENGINEER AND PLANNER
CALIFORNIA

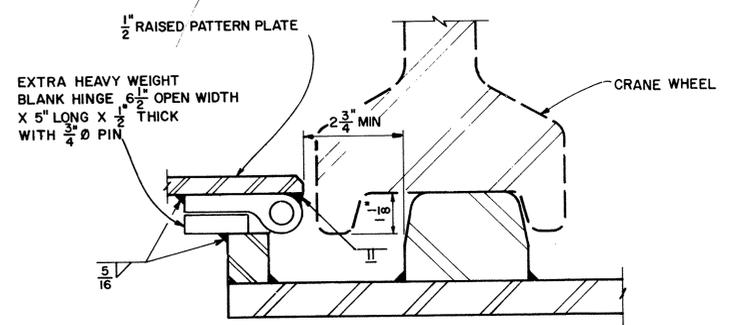
DESIGN: [Signature] DR: [Signature] CHK: [Signature]
SUPERVISOR: [Signature] CHANGER: [Signature] DATE: [Signature]
FIRM MEMBER (TITLE) DATE
WESTERN DIVISION NAVFAC
RVD: [Signature] DIR: [Signature]
HD: [Signature] OIC
NAVFAC: [Signature] RVP: [Signature]
HD: [Signature] DIR: [Signature]

APPROVED DATE
[Signature] 3/22
FOR COMMANDER NAVFAC

REVISIONS				
SYM	DESCRIPTION	PREP BY	DATE	APPROVED
A1	REVISE SECTION B & E FOR CLARITY ADDED DIMENSION SECTION C	VFC	11-4-68	

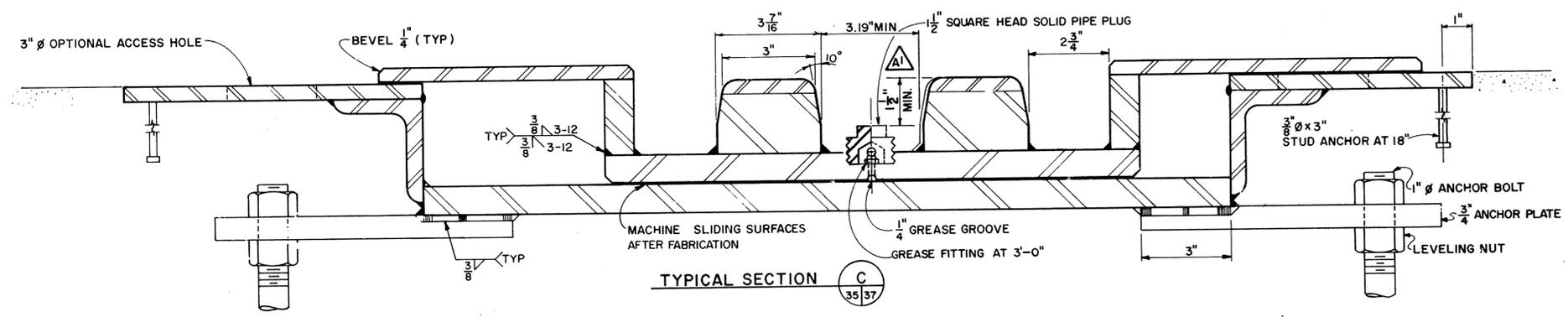


SECTION B
35/37

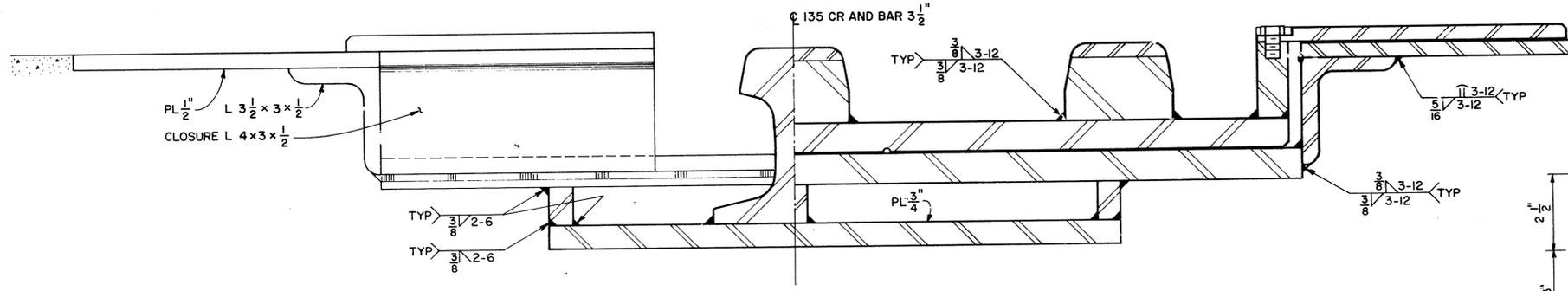


DETAIL 2
36/37

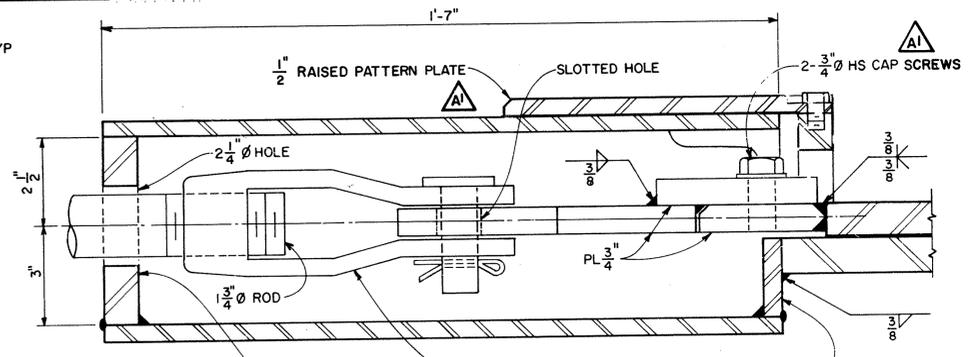
OPTIONAL HINGED COVER PLATE
THREE HINGES PER PLATE



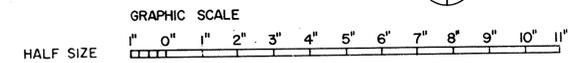
TYPICAL SECTION C
35/37



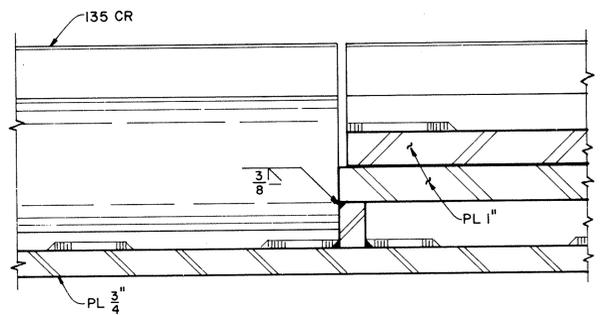
SECTION D
35/37



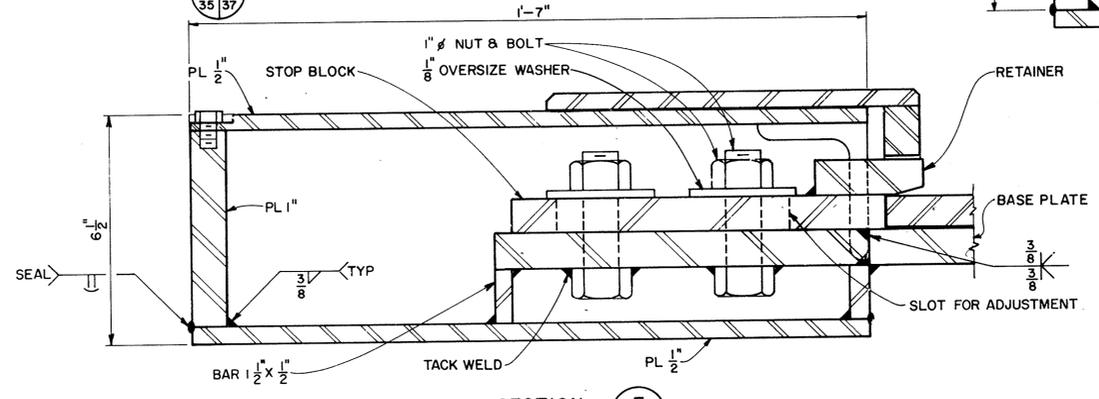
SECTION E
35/37



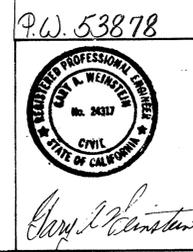
IF SHEET IS LESS THAN
28" X 40"
IT IS A REDUCED PRINT —
SCALE REDUCED ACCORDINGLY



DETAIL 3
35/37



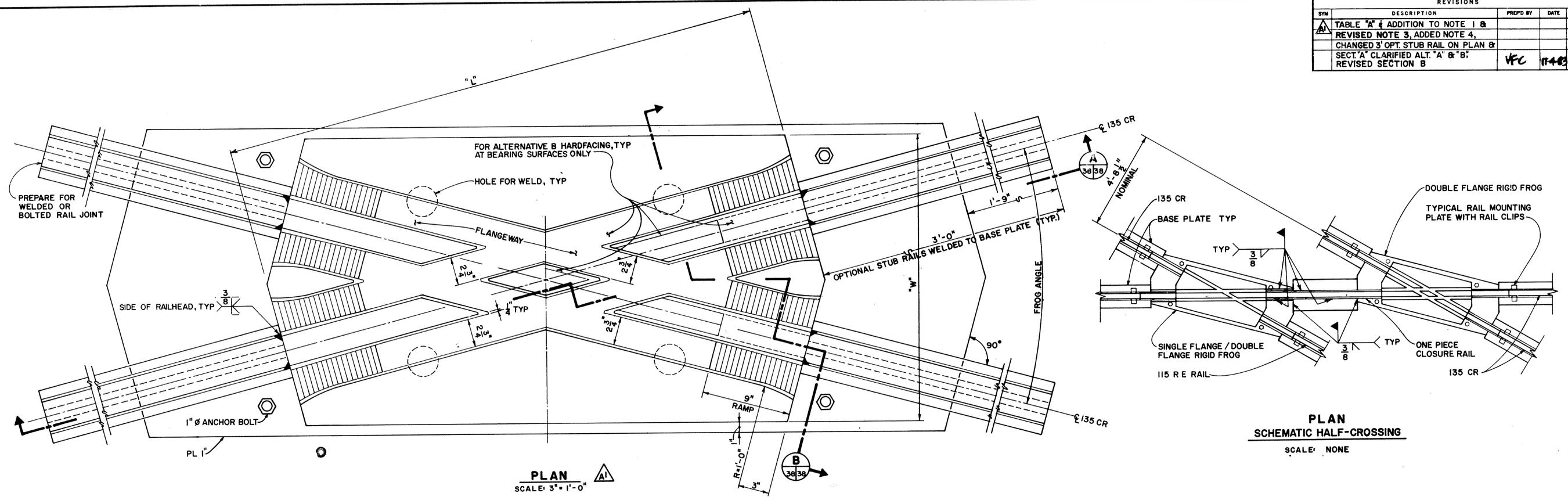
SECTION F
35/37



TUDOR ENGINEERING COMPANY <small>DESIGN, DRAWING, CHECK, SUPPLY, ESTIMATE, PROJECT MANAGER</small>		DEPARTMENT OF THE NAVY NAVAL FACILITIES ENGINEERING COMMAND <small>200 STOVALL STREET ALEXANDRIA, VA. 22332</small>	
STANDARD DRAWING FABRICATED		PORTAL CRANE TRACK SWITCH CROSS SECTIONS	
APPROVED <i>[Signature]</i> FOR COMMANDER NAVFAC	DATE 3/20	SIZE 80091	NAVFAC DRAWING NO. 1404037
SCALE HALF SIZE		SHEET 3 OF 3	

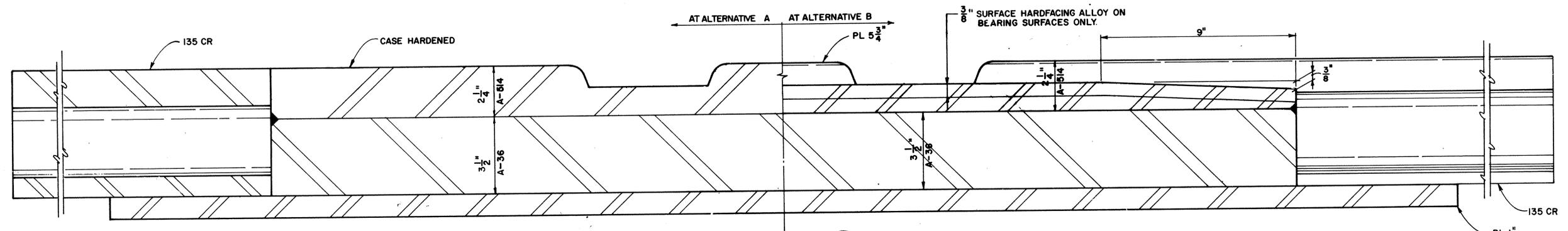
105 FILM

REVISIONS				
SYM	DESCRIPTION	PREP BY	DATE	APPROVED
A	TABLE "A" & ADDITION TO NOTE 1 & REVISED NOTE 3, ADDED NOTE 4.			
	CHANGED 3' OPT. STUB RAIL ON PLAN & SECT 'A' CLARIFIED ALT. 'A' & 'B'; REVISED SECTION B	KFC	11-4-83	P.W.

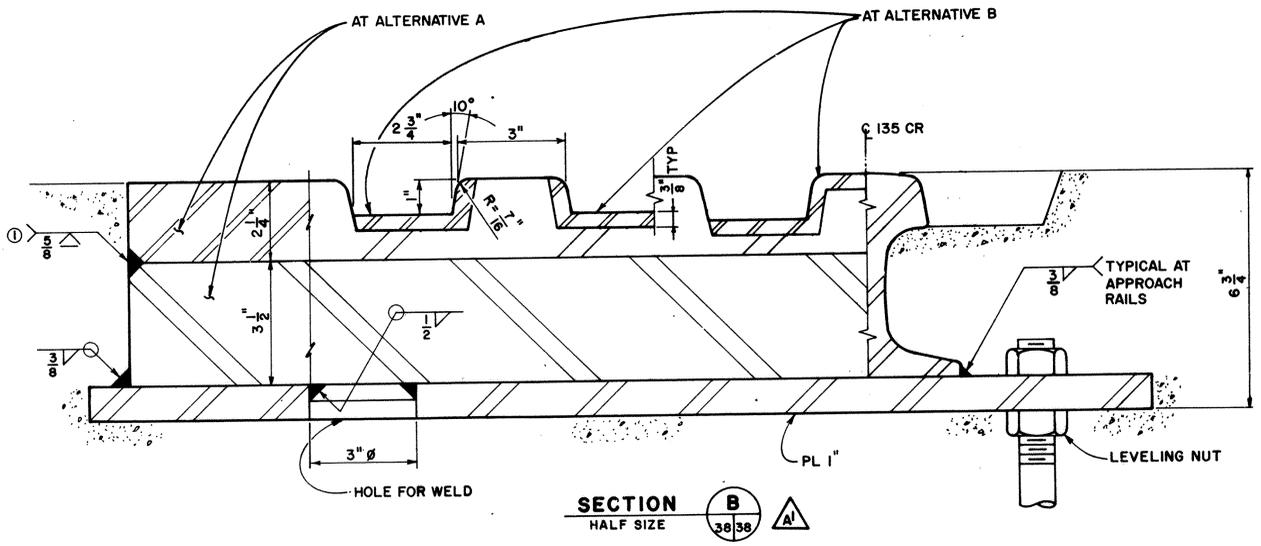


PLAN
SCALE: 3" = 1'-0"

PLAN
SCHEMATIC HALF-CROSSING
SCALE: NONE



SECTION A
HALF SIZE



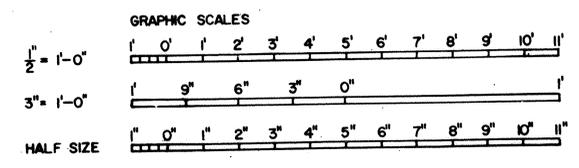
SECTION B
HALF SIZE

WELD NOTES:
① E 11018

TABLE "A"

FROG ANGLE	MINIMUM LENGTH (L)	MINIMUM WIDTH (W)
20°	5'-6"	2'-0"
30°	4'-6"	2'-3"
45°	4'-0"	2'-6"
60°	3'-6"	3'-0"
90°	3'-0"	3'-0"

- NOTES:**
- LENGTH AND WIDTH DIMENSIONS VARY ACCORDING TO FROG ANGLE. (SEE TABLE "A" FOR RANGE OF VALUES.)
 - DESIGN CRITERIA FOR THIS FITTING:
 - 100 KIP VERTICAL WHEEL LOAD ON 3'-6" CENTERS
 - 15 KIP HORIZONTAL WHEEL LOAD ON 3'-6" CENTERS
 - CRANE WHEEL SIZE: TREAD - 4 1/2" WIDE
 - FLANGES - 1 1/4" WIDE x 1 1/8" DEEP.
 - PROVIDE RAILROAD TYPE GUARD RAIL OPPOSITE FROG WITH USE OF STANDARD GAGE TRACK.
 - ALTERNATIVE A OR B ARE TO BE FABRICATOR'S OPTION.



P.W. 53879

TUDOR
ENGINEERING COMPANY

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING COMMAND
200 STOVALL STREET
ALEXANDRIA, VA. 22332

STANDARD DRAWING
FABRICATED

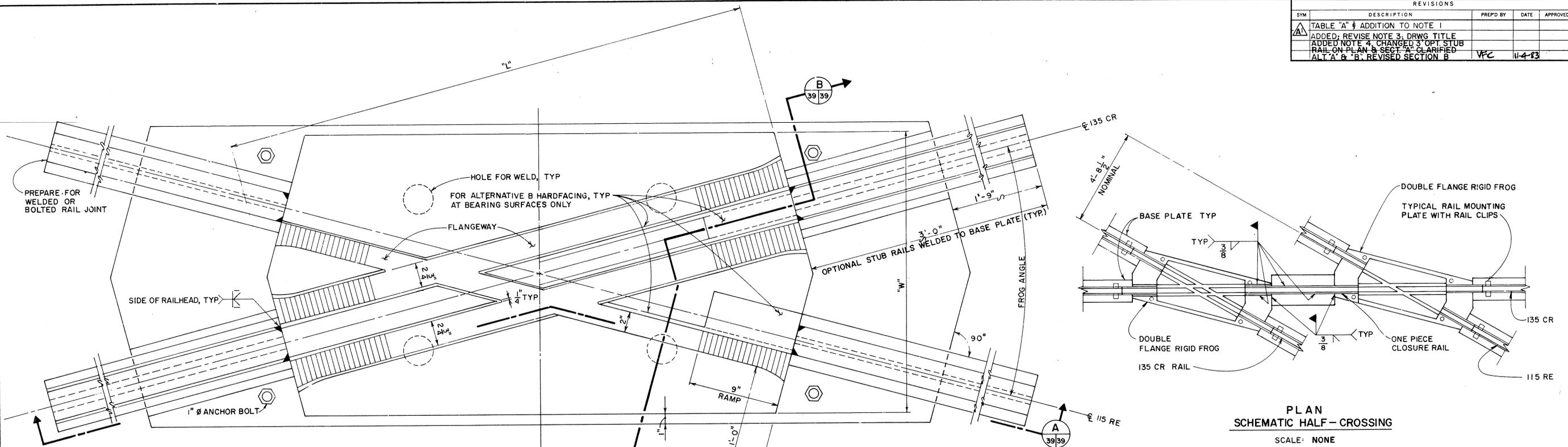
PORTAL CRANE TRACK FROG
FOR INTERSECTION OF 135CR WITH 135CR

APPROVED: [Signature]
DATE: 7/83

SIZE: 80091
CODE IDENT. NO. 1404038
SHEET 1 OF 1

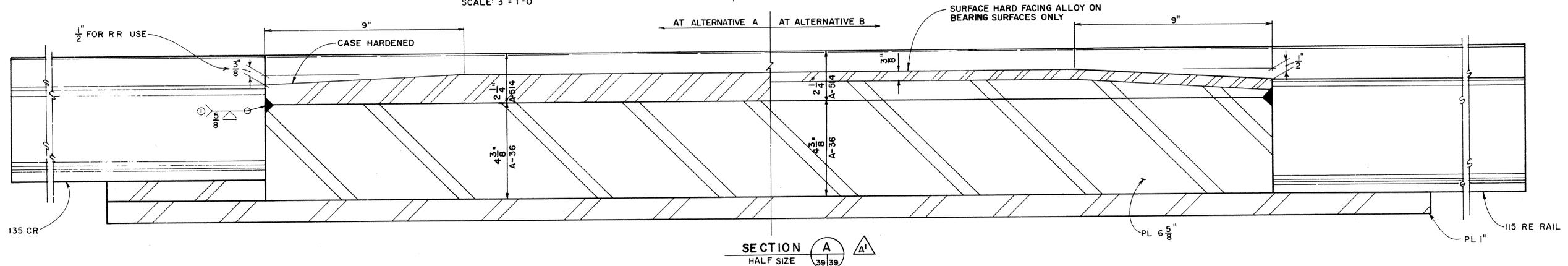
105 ELM

REVISIONS				
SYM	DESCRIPTION	PREP'D BY	DATE	APPROVED
TABLE "A"	ADDITION TO NOTE 1			
ADDED	REVISE NOTE 3; DRWG TITLE			
ADDED	NOTE 4; CHANGED 3" OPT STUB			
RAIL ON PLAN & SECT A - CLARIFIED				
ALT "A" & "B" REVISED SECTION B		VFC	11-4-83	

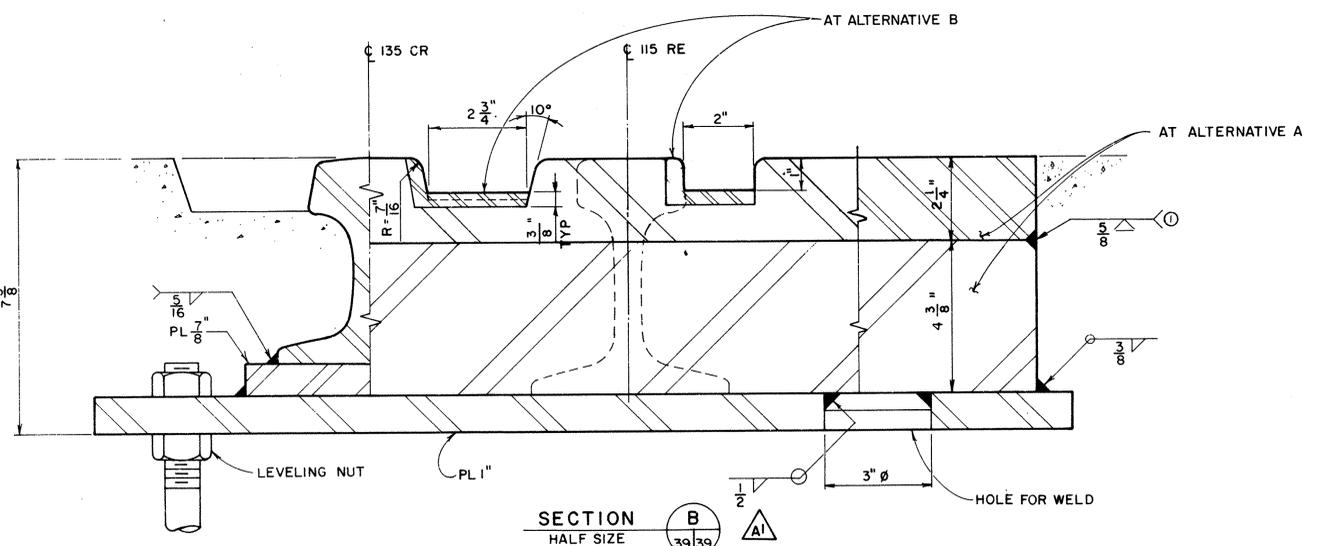


PLAN
SCALE: 3" = 1'-0"

PLAN
SCHEMATIC HALF-CROSSING
SCALE: NONE



SECTION A-A
HALF SIZE



SECTION B-B
HALF SIZE

WELD NOTES:

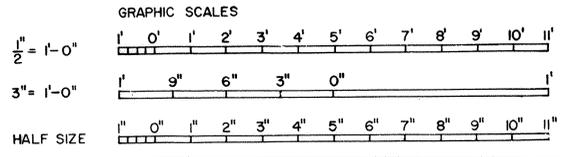
① E 11018

TABLE "A"

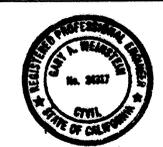
FROG ANGLE	MINIMUM	
	LENGTH (L)	WIDTH (W)
20°	5'-6"	2'-0"
30°	4'-6"	2'-3"
45°	4'-0"	2'-6"
60°	3'-6"	3'-0"
90°	3'-0"	3'-0"

NOTES:

- LENGTH AND WIDTH DIMENSIONS VARY ACCORDING TO FROG ANGLE. (SEE TABLE "A" FOR RANGE OF VALUES.)
- DESIGN CRITERIA FOR THIS FITTING:
 - 100 KIP VERTICAL WHEEL LOAD ON 3'-6" CENTERS
 - 15 KIP HORIZONTAL WHEEL LOAD ON 3'-6" CENTERS
 - CRANE WHEEL SIZE: TREAD - 4 1/2" WIDE
 - FLANGES - 1 1/4" WIDE x 1 1/8" DEEP.
- PROVIDE RAILROAD TYPE GUARD RAIL OPPOSITE FROG WITH USE OF STANDARD GAGE TRACK.
- ALTERNATIVE A OR B ARE TO BE FABRICATOR'S OPTION



P.W. 53880



TUDOR ENGINEERING COMPANY
 DESIGNER OR CHECKED BY: [Signature]
 SUPV. OR CH ENGR: [Signature]
 FIRM MEMBER (TITLE) DATE: [Signature]
 WESTERN DIVISION NAVFAC
 RVD: [Signature] DIR: [Signature]
 HD: [Signature] OIC: [Signature]
 NAVFAC: [Signature] RVD: [Signature]
 HD: [Signature] DIR: [Signature]

IF SHEET IS LESS THAN 28" X 40" IT IS A REDUCED PRINT - SCALE REDUCED ACCORDINGLY

DEPARTMENT OF THE NAVY
 NAVAL FACILITIES ENGINEERING COMMAND
 200 STOWALL STREET ALEXANDRIA, VA. 22332

STANDARD DRAWING
 FABRICATED

PORTAL CRANE TRACK FROG
 FOR INTERSECTION OF 135 CR WITH 115 RE
 (RAMPED)

APPROVED: [Signature] DATE: 3/1/83
 FOR COMMANDER NAVFAC
 SIZE: 80091
 CODE IDENT. NO.: 80091
 NAVFAC DRAWING NO.: 1404039
 SCALE: AS NOTED
 SHEET 1 OF 1

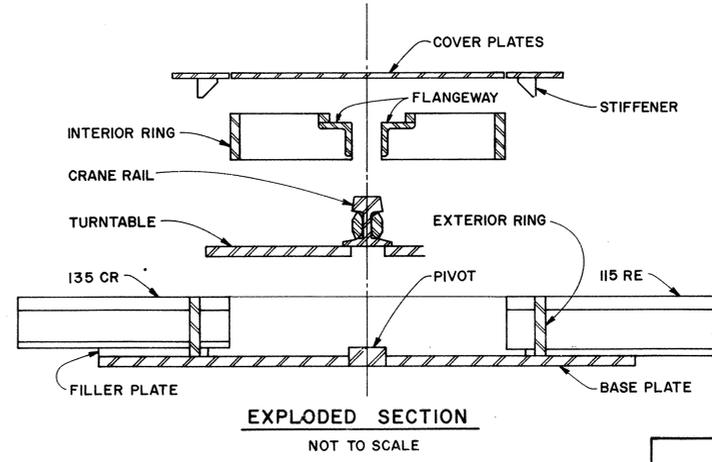
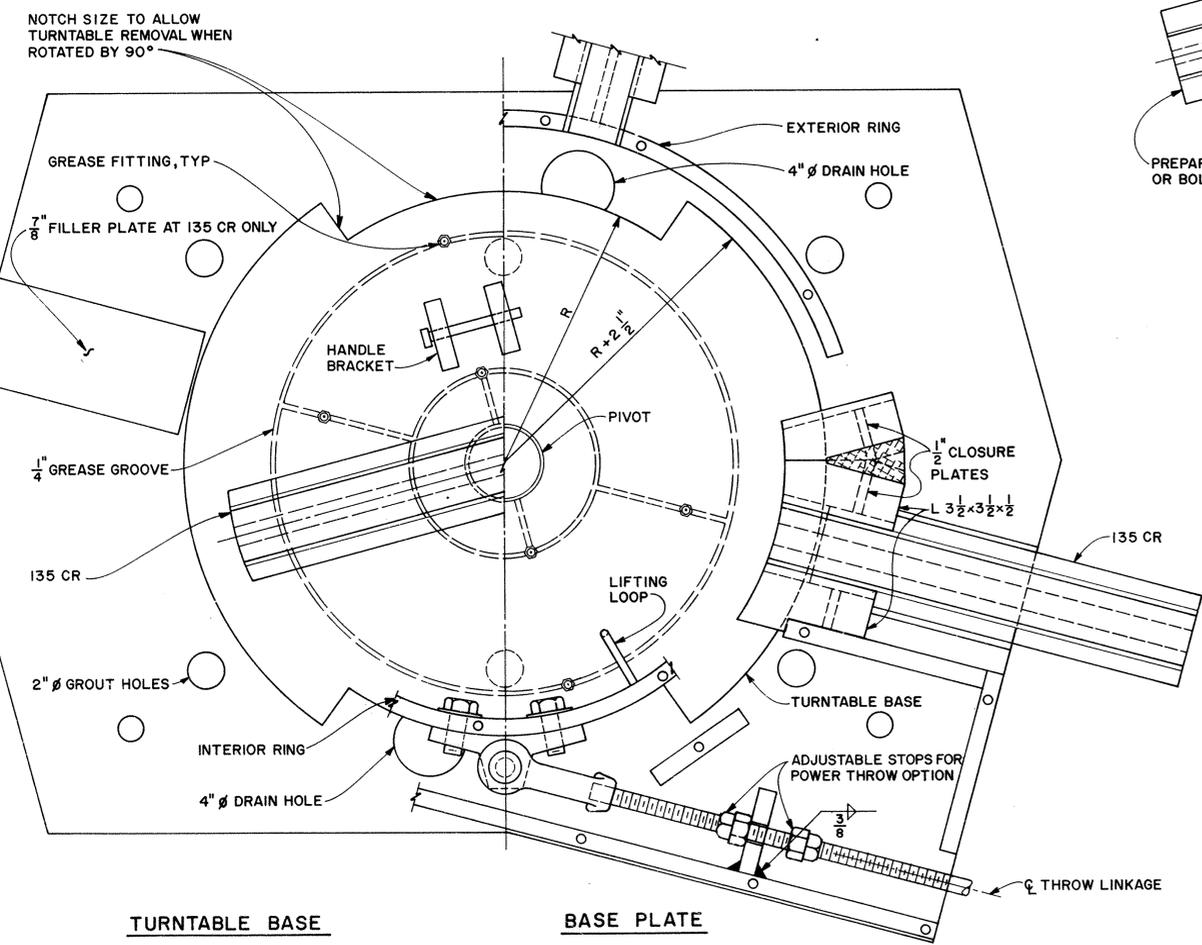
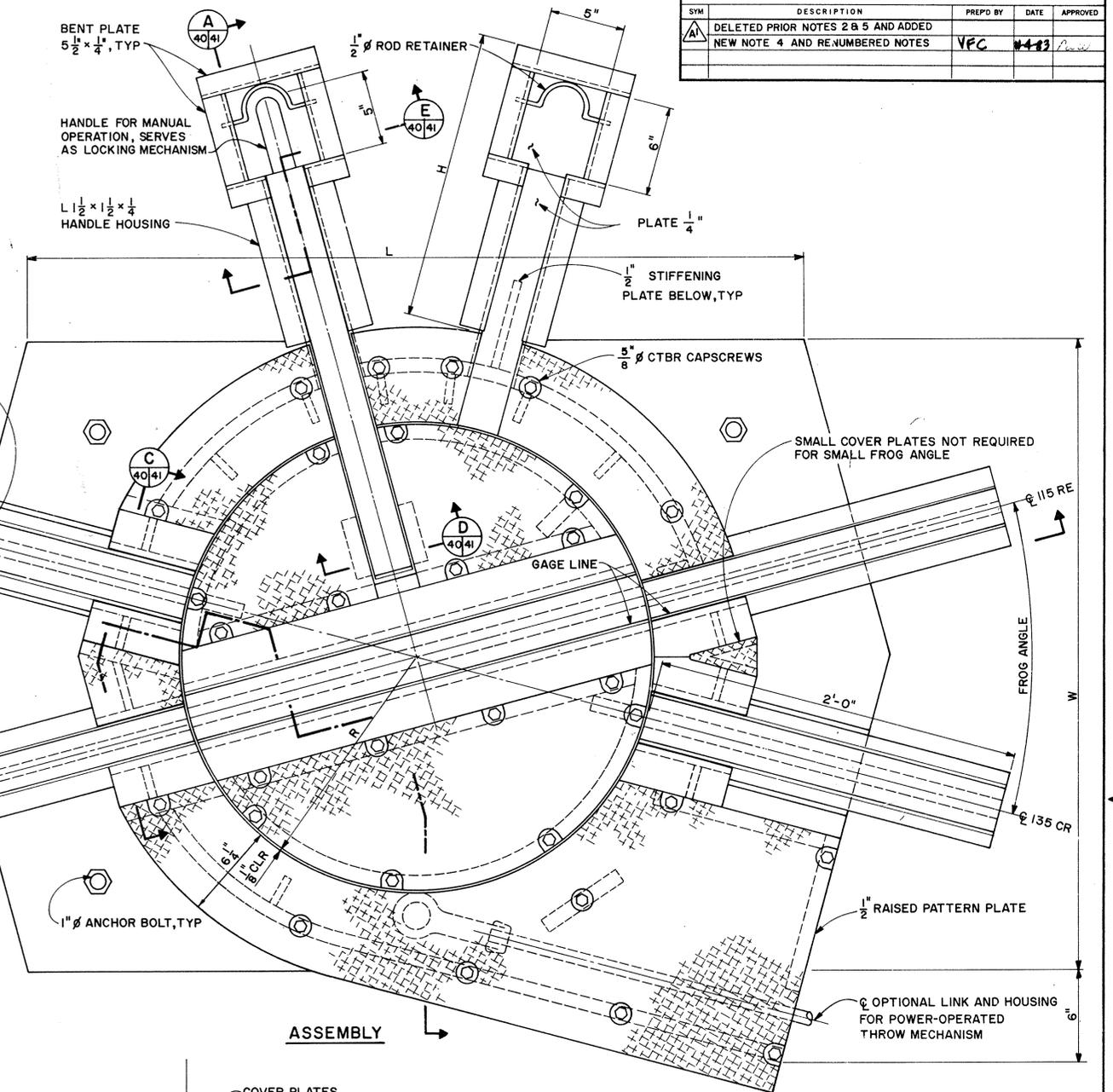
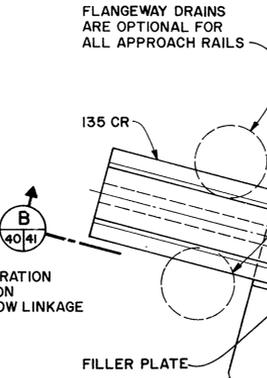
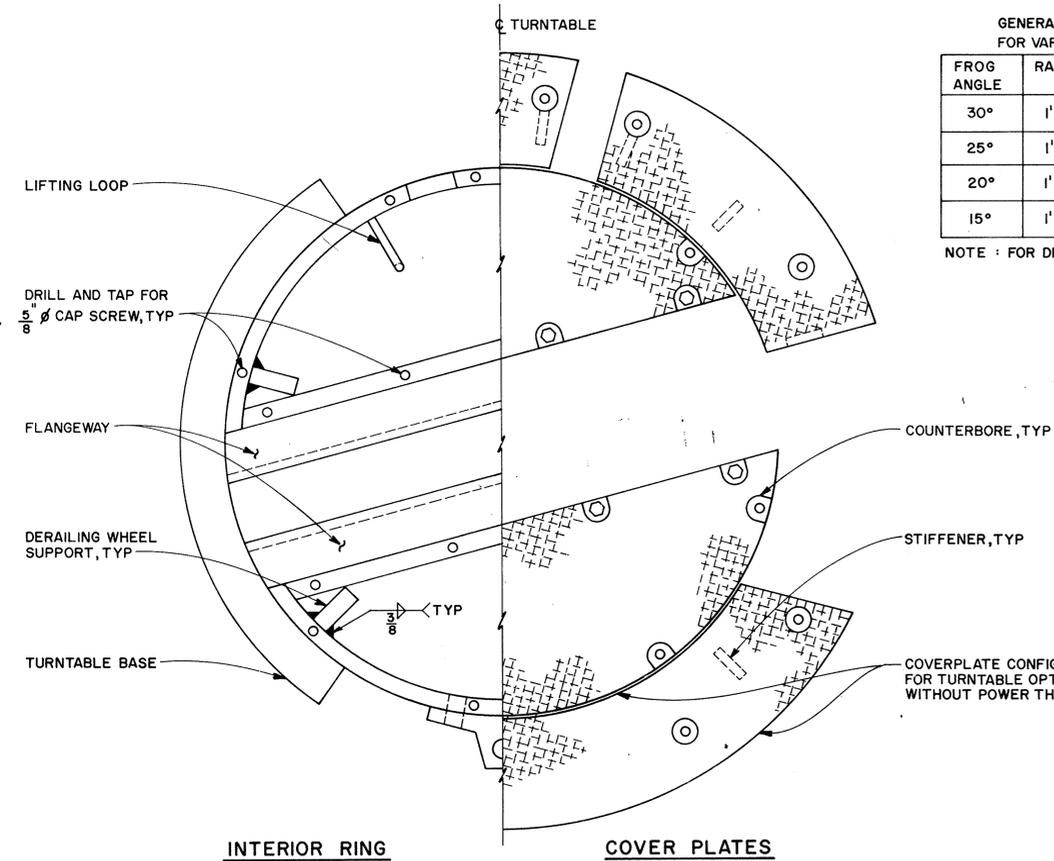
105.F11

REVISIONS				
SYM	DESCRIPTION	PREP BY	DATE	APPROVED
A1	DELETED PRIOR NOTES 2 & 5 AND ADDED NEW NOTE 4 AND RE-NUMBERED NOTES	VFC	4-13	

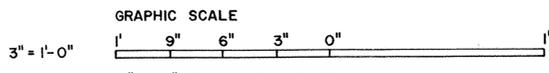
GENERAL RELATIONSHIP OF DIMENSIONS FOR VARIOUS FROG ANGLES.

FROG ANGLE	RADIUS R	LENGTH L	WIDTH W	HANDLE H
30°	1'-3 1/2"	4'-3"	3'-6"	1'-7"
25°	1'-4"	4'-5"	3'-8"	1'-9"
20°	1'-6"	4'-8"	3'-11"	2'-0"
15°	1'-9"	5'-2"	4'-5"	2'-6"

NOTE: FOR DRAWING AS SHOWN FROG ANGLE = 30°



- NOTES: A1
- THIS FROG DESIGN MAY BE ADAPTED FOR INTERSECTION OF TWO 135 CR RAILS.
 - THE DIAMETER AND OVERALL DIMENSIONS OF THIS FROG VARY ACCORDING TO THE FROG ANGLE. SEE TABLE FOR GENERAL RELATIONSHIPS.
 - DESIGN CRITERIA FOR THIS FITTING:
 - 100 KIP VERTICAL WHEEL LOAD ON 3'-6" CENTERS
 - 15 KIP HORIZONTAL WHEEL LOAD ON 3'-6" CENTERS
 - CRANE WHEEL SIZE: TREAD-4 1/2" WIDE
 - FLANGES-1 1/4" WIDE x 1 1/8" DEEP.
 - FOR DEFINITIVE DETAILS OF POWER THROW MECHANISM, SEE NAVFAC DEFINITIVE DRAWING NO. 1404355



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REGISTERED PROFESSIONAL ENGINEER
STATE OF CALIFORNIA
No. 26317
CIVIL

TUDOR
ENGINEERING COMPANY

DESIGN: [Signature] CHECK: [Signature]
SUPERVISOR: [Signature] CH. ENGR: [Signature]
FIRM MEMBER (TITLE) DATE
WESTERN DIVISION NAVFAC DIR: [Signature]
RVD: [Signature] CH. ENGR: [Signature]
NAVFAC: RVD: [Signature] DIR: [Signature]
HD: [Signature] DIR: [Signature]

APPROVED: [Signature] DATE: [Signature]
FOR COMMANDER NAVFAC

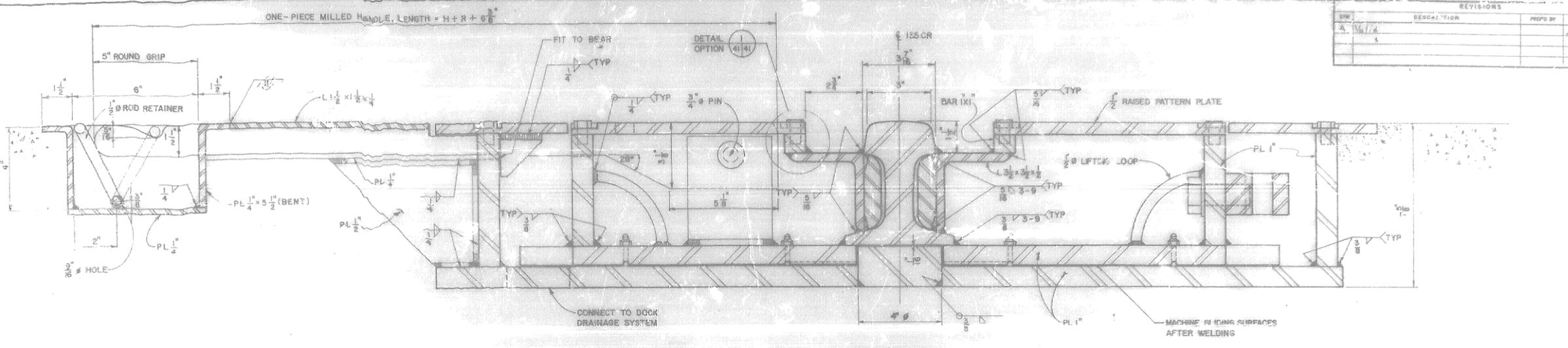
DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING COMMAND
200 STOWALL STREET ALEXANDRIA, VA. 22332

STANDARD DRAWING
FABRICATED
PORTAL CRANE TRACK
TURNABLE FROG
PLAN AND ASSEMBLY

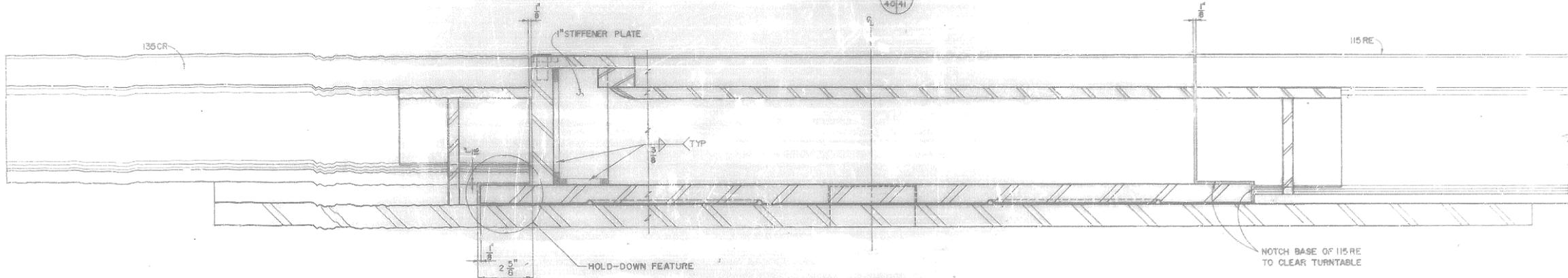
SIZE: 80091
CODE IDENT. NO. 80091
NAVFAC DRAWING NO. 1404040
SHEET 1 OF 2

105 FILM

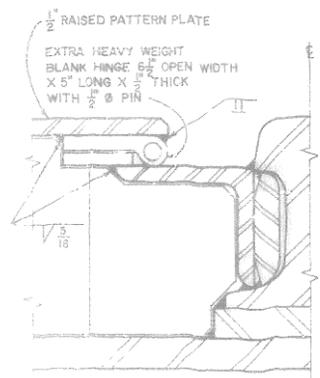
REVISIONS				
REV	DESCRIPTION	PREP'D BY	DATE	APPROVED
A	1/1/4		11-1-88	PLW



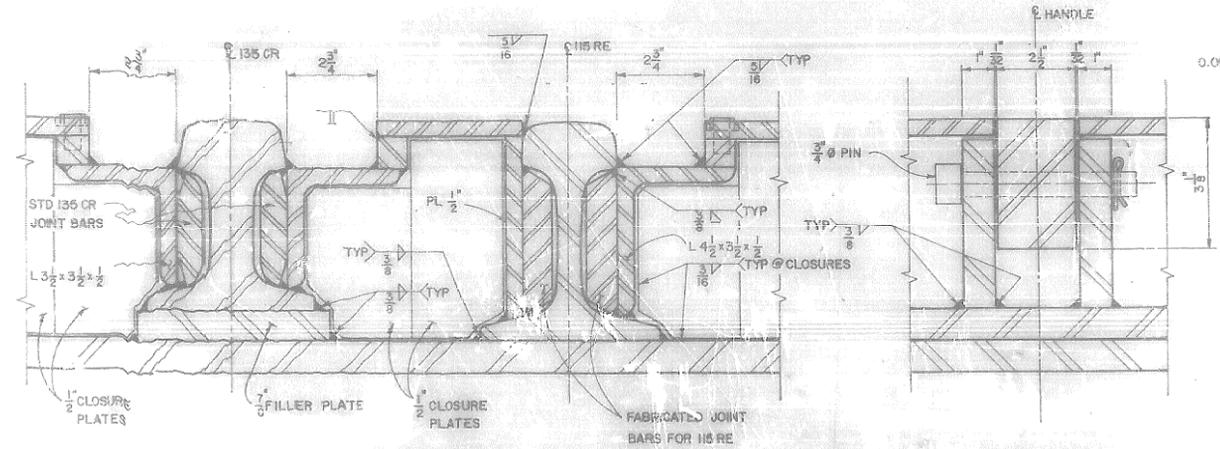
SECTION A
40/41



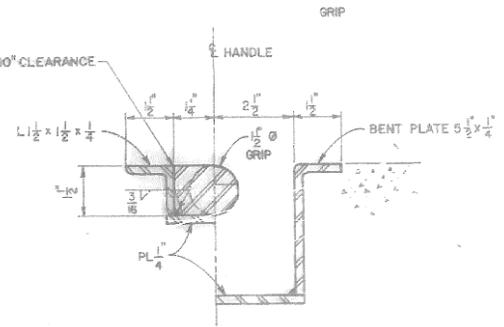
SECTION B
40/41



DETAIL
HINGED COVER PLATE OPTION
TWO HINGES PER PLATE



SECTION C
40/41



SECTION D
40/41

SECTION E
40/41



IF SHEET IS LESS THAN
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SCALE REDUCED ACCORDINGLY

	DEPARTMENT OF THE NAVY NAVAL FACILITIES ENGINEERING COMMAND 200 STOWELL STREET ALEXANDRIA, VA 22332	
	STANDARD DRAWING FABRICATED PORTAL CRANE TRACK TURNABLE FROG CROSS SECTIONS	
APPROVED: <i>Harry A. Hendrick</i> DATE: 3/80 BY: COMMANDER NAVFAC	DATE: 3/80 SIZE: 80091	CODE DEPT. NO. 140404 NAVFAC DRAWING NO. 80091 SHEET 2 OF 2

PW 53882