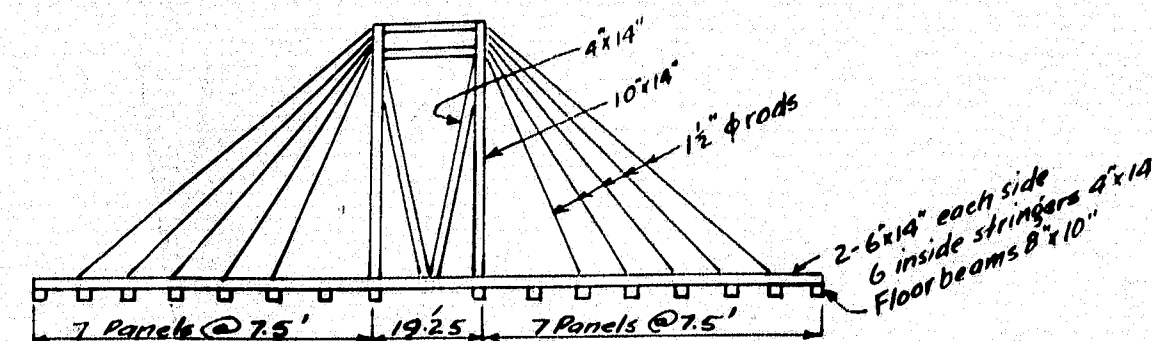
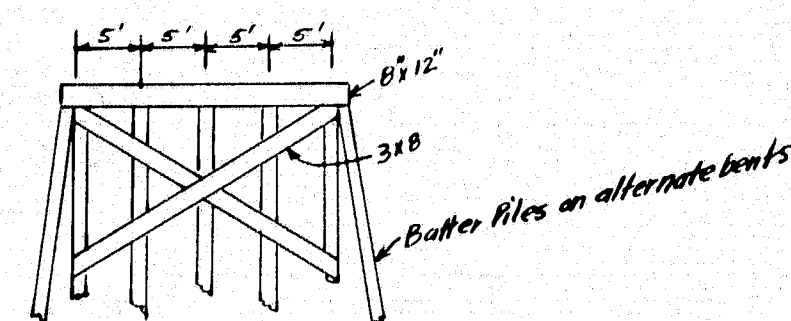


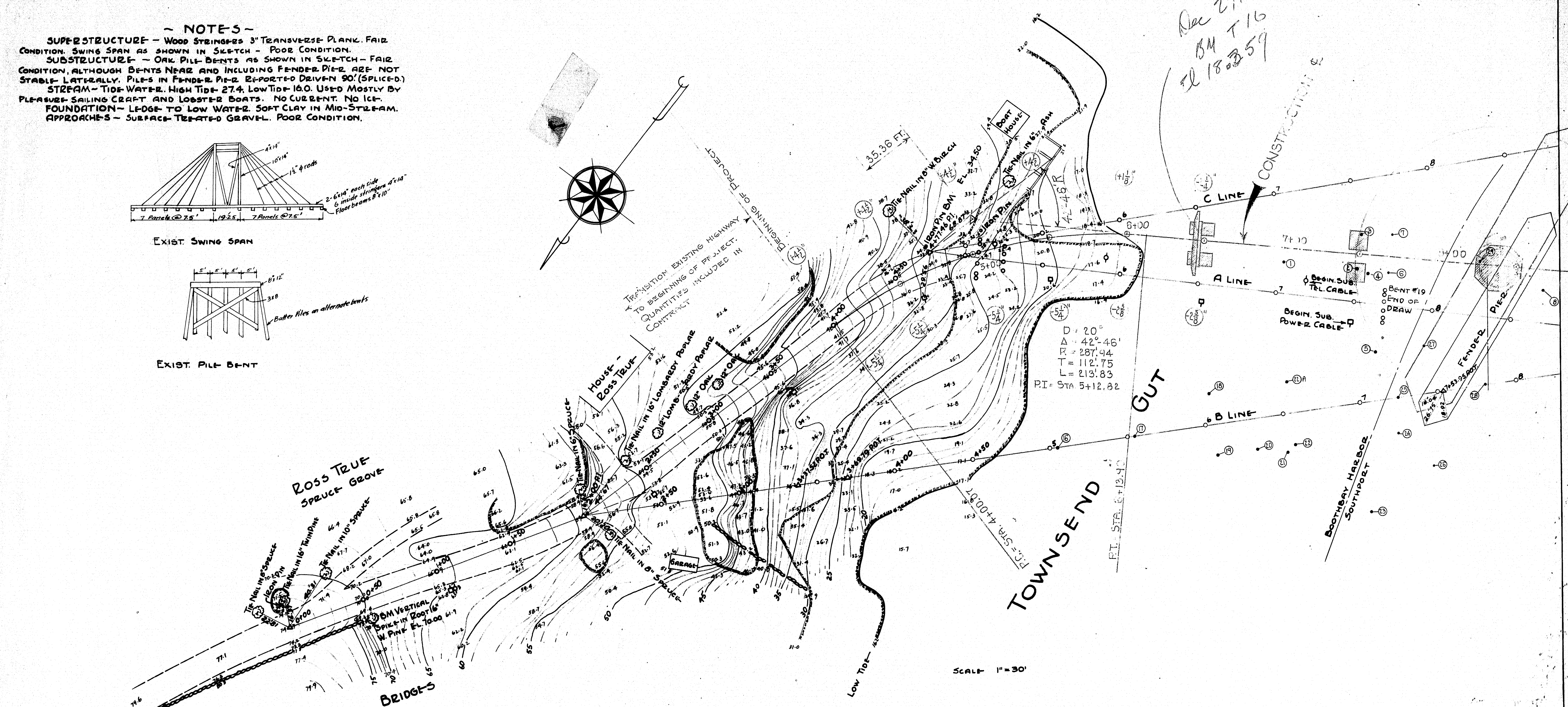
NOTE-3-
 SUPERSTRUCTURE - WOOD STRINGERS 3" TRANSVERSE PLANK. FAIR
 CONDITION. SWING SPAN AS SHOWN IN SKETCH - POOR CONDITION.
 SUBSTRUCTURE - OAK PILE BENTS AS SHOWN IN SKETCH - FAIR
 CONDITION, ALTHOUGH BENTS NEAR AND INCLUDING FENDER PIER ARE NOT
 STABLE. LATERALLY, PILES IN FENDER PIER REPORTED DRIVEN 90' (SPICED)
 STEAM - TIDE WATER. HIGH TIDE 27.4. LOW TIDE 16.0. USED MOSTLY BY
 PLEASANT SAILING CRAFT AND LOBSTER BOATS. NO CURRENT. NO ICE.
 FOUNDATION - LEDGE TO LOW WATER. SOFT CLAY IN MID-STREAM.
 APPROACHES - SURFACE TREATED GRAVEL. POOR CONDITION.



EXIST SWING SPAN



EXIST PILE BENT



A LINE SOUNDINGS				A LINE SOUNDINGS (CONT.)				A LINE SOUNDINGS (CONT.)				A LINE SOUNDINGS (CONT.)			
POINT	STA.	ELEVATIONS	DESCRIPTION	POINT	STA.	ELEVATIONS	DESCRIPTION	POINT	STA.	ELEVATIONS	DESCRIPTION	POINT	STA.	ELEVATIONS	DESCRIPTION
①	7+03	-5.3	STR. BED	⑤	7+68	-25.5	STR. BED	⑨	8+85	-18.5	STR. BED	⑬	9+45	-6.5	STR. BED
	20' L	-5.3 to -11.3	GRAVEL & SAND		30' R	-25.5 to -35.5	SAND		110' L	-18.5 to -41.5	VERY SOFT SILT		51' L	-6.5 to -13.0	SAND
		-11.3	LEDGE			-35.5 to -57.5	CLAY & SILT			-41.5 to -51.5	SOFT SILT			-13.0	LEDGE
②	7+50	-18.0	STR. BED			-57.5 to -60.5	GRAVEL			-51.5 to -55.5	GRAVEL	⑭	9+48	-2.5	STR. BED
	21' L	-18.0 to -24.0	SILT			-60.5	LEDGE			-55.5	LEDGE		22' L	-2.5 to -6.0	SILT
		-24.0 to -30.0	SAND	⑥	7+71	-19.0	STR. BED	⑩	9+18	-9.0	STR. BED			-6.0 to -10.0	SAND
		-30.0	LEDGE		21' L	-19.0 to -40.0	SILT & SAND		18' L	-9.0 to -19.0	SILT			-10.0	LEDGE
③	7+50	-19.5	STR. BED			-40.0	LEDGE			-19.0 to -25.0	SILT & SAND	⑮	9+48	-5.0	CASING HITS
	43' L	-19.5 to -22.0	SAND & SILT	⑦	7+71	-19.0	STR. BED			-25.0 to -31.0	SAND & GRAVEL		51' L		SLOPING LEDGE
		-22.0 to -30.0	HARD SAND		45' L	-19.0 to -35.0	SILT			-31.0	LEDGE				
		-30.0	LEDGE			-35.0 to -43.0	SILT & SAND	⑪	9+27	-11.3	STR. BED				
④	7+56	-18.0	STR. BED			-43.0	LEDGE			-11.3 to -21.3	SILT				
	19' L	-18.0 to -30.0	SAND	⑧	8+70	-19.5	STR. BED			-21.3 to -33.0	SILT & SAND				
		-30.0	LEDGE		20' L	-19.5 to -29.5	SILT			-33.0	LEDGE				
						-29.5 to -52.0	SILT & SAND	⑫	9+27	-13.0	STR. BED				
						-52.0	LEDGE			-13.0 to -22.5	SILT & SAND				
										-22.5	LEDGE				

P.W.A. PROJECT No. MAINE 1120-F

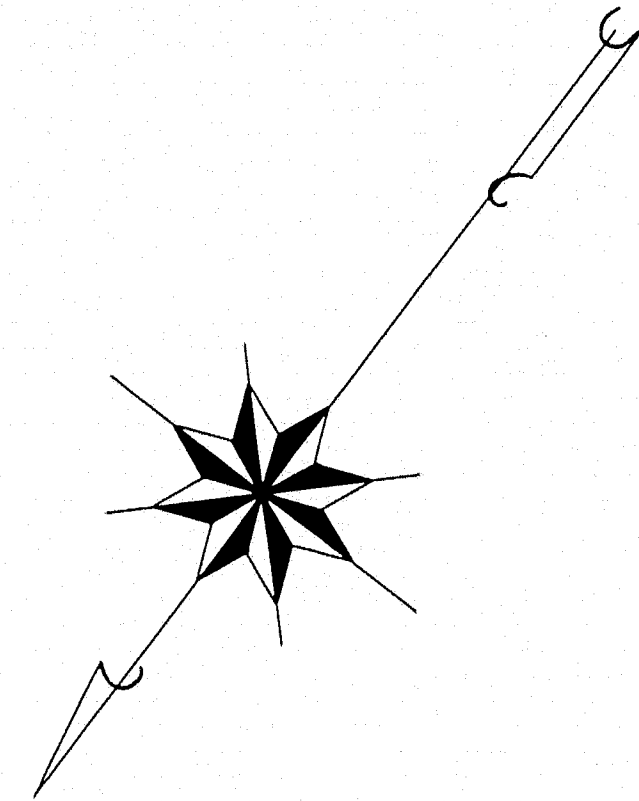
Town 08-15
 Bridge 2789

STATE HIGHWAY DEPARTMENT
 BRIDGE DIVISION
SOUTHPORT BRIDGE
 OVER
TOWNSEND GUT
 BETWEEN THE TOWNS OF
SOUTHPORT - BOOTHBAY HARBOR
LINCOLN COUNTY

SURVEY PLAN

SHEET 1 OF 13, AUGUSTA, MAINE. JAN. 1937.

38-1

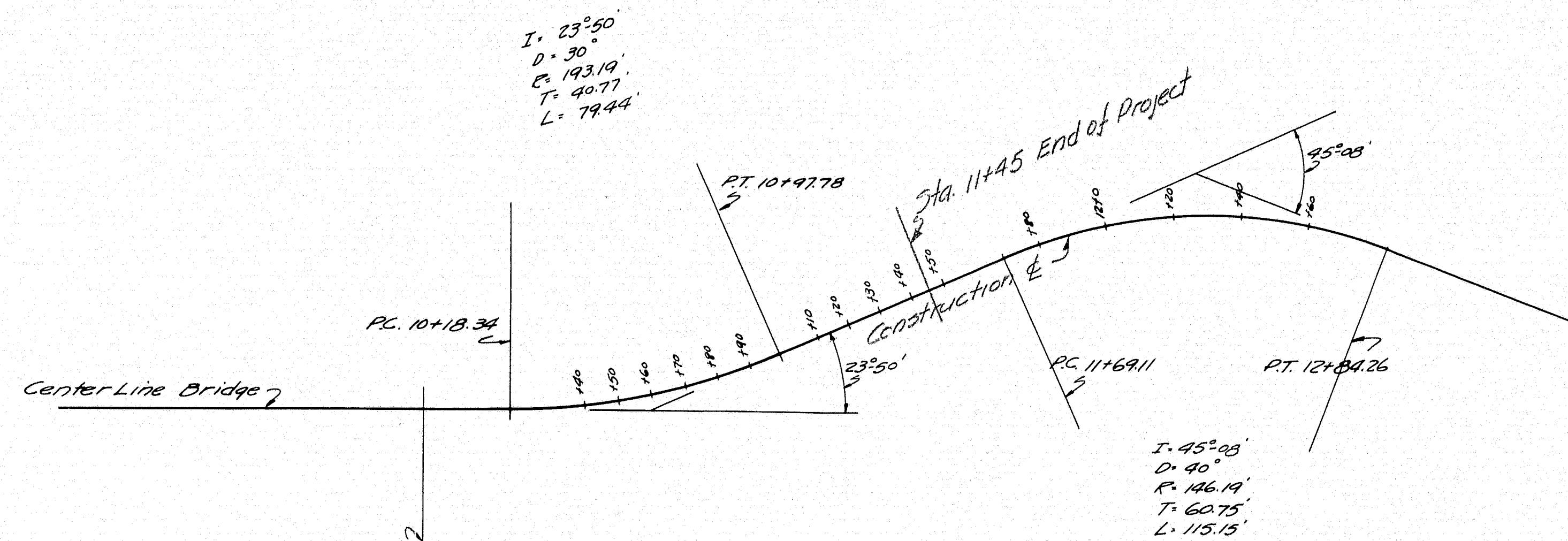


P.W.A. PROJECT NO.
MAINE 1120-F

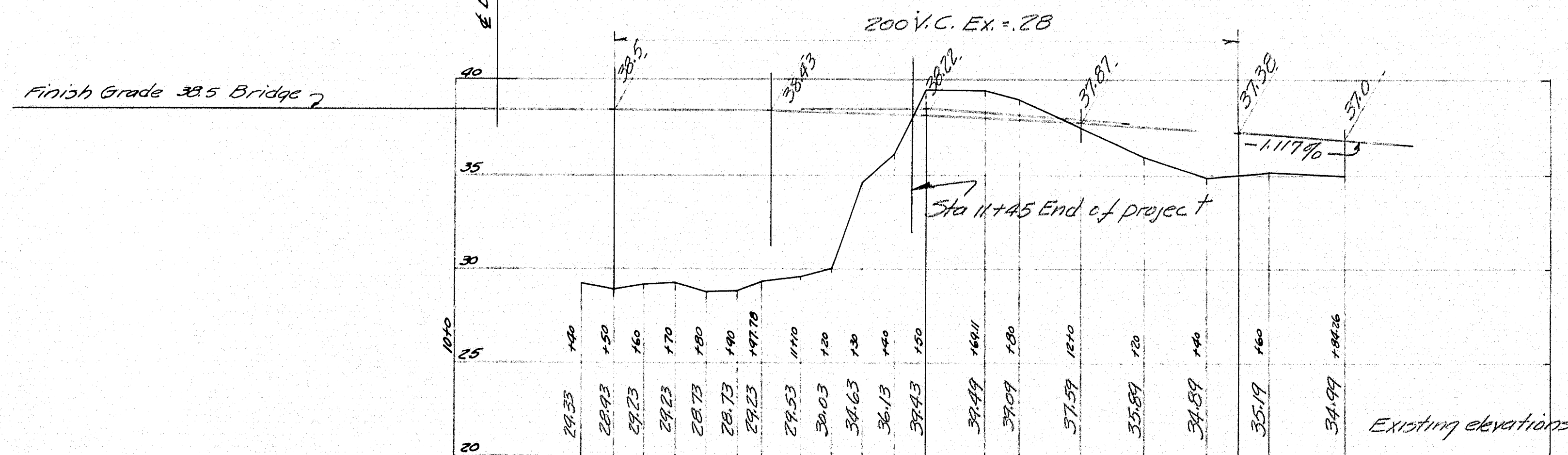
TOWN	08-15
BRIDGE	2789

STATE HIGHWAY DEPARTMENT
BRIDGE DIVISION
SOUTHPORT BRIDGE
OVER
TOWNSEND GUT
BETWEEN THE TOWNS OF
SOUTHPORT-BOOTHBAY HARBOR
LINCOLN COUNTY
SURVEY PLAN

SHEET 2 OF 13 AUGUSTA, MAINE JAN. 1937



PLAN
 Scale 1"=30'

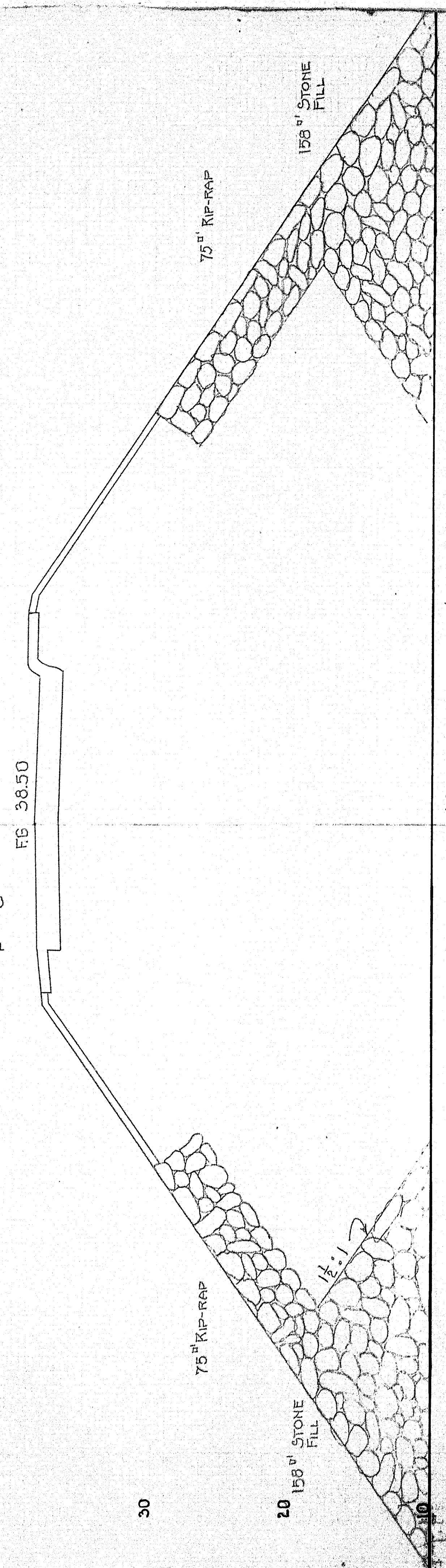
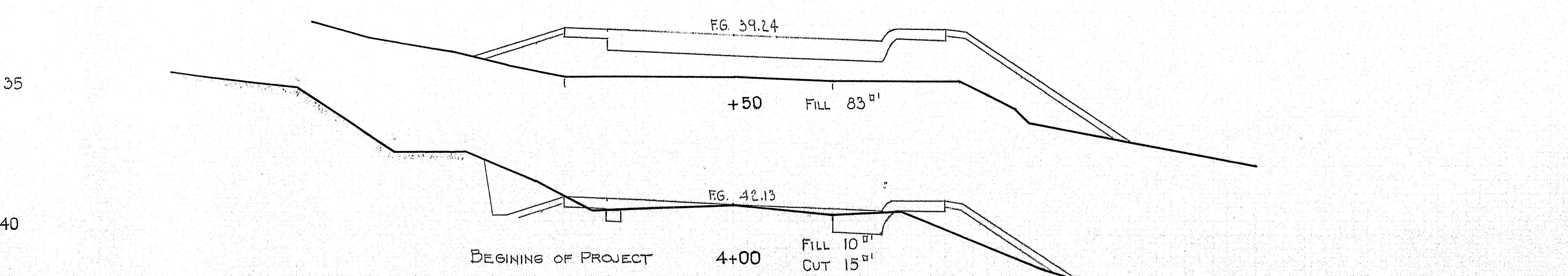
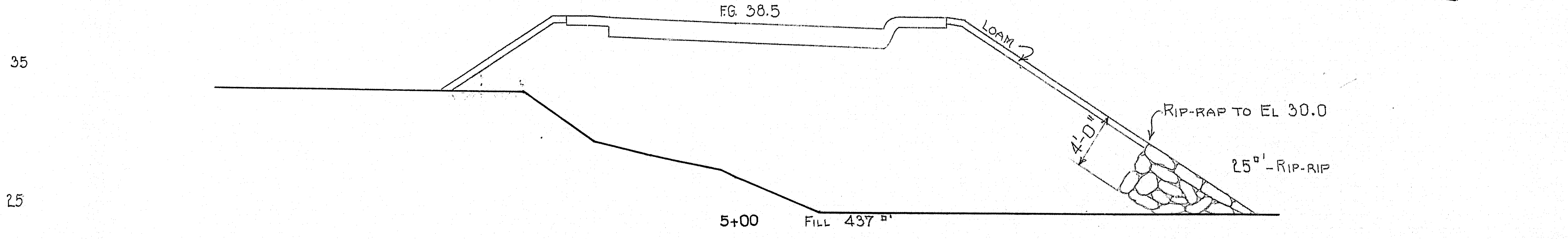
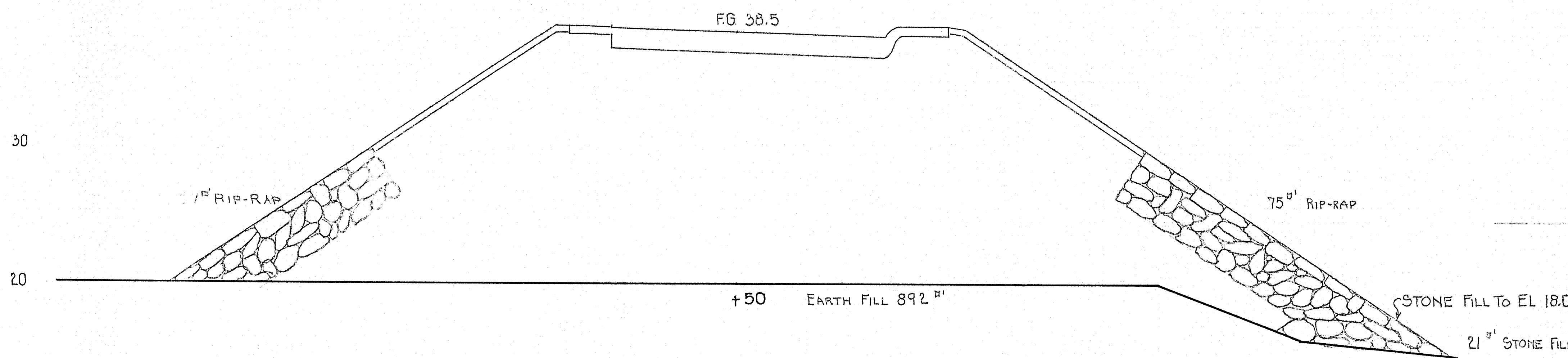
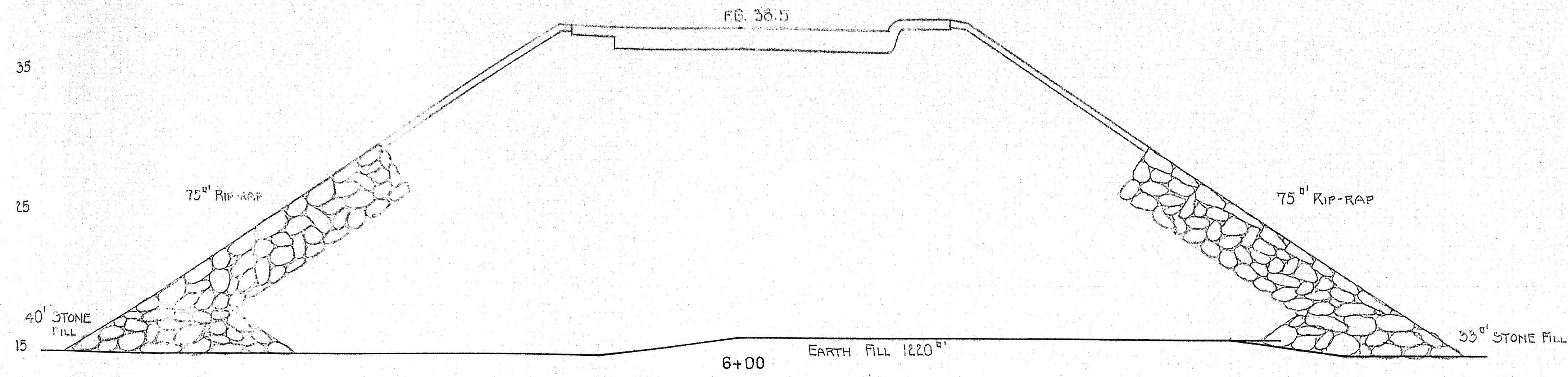


PROFILE
 Hor. 1"=30'
 Ver. 1"=5'

Surveyed by Rogers & Towne
 June 20, 1939.

TOWN 08-15
 Bridge 2789

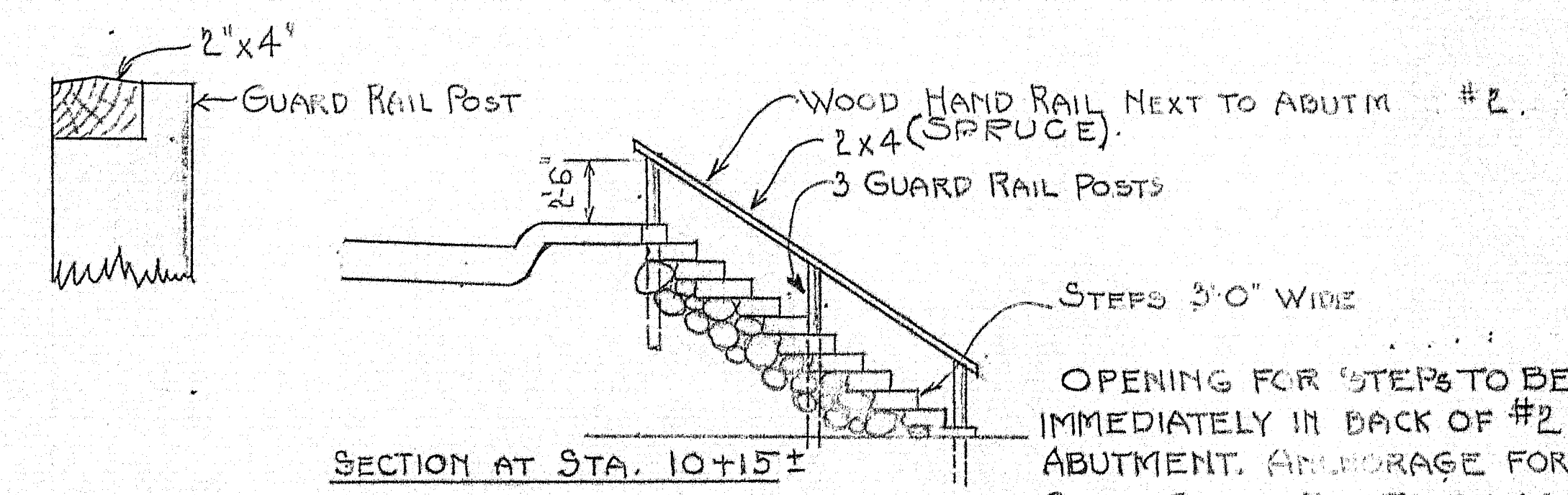
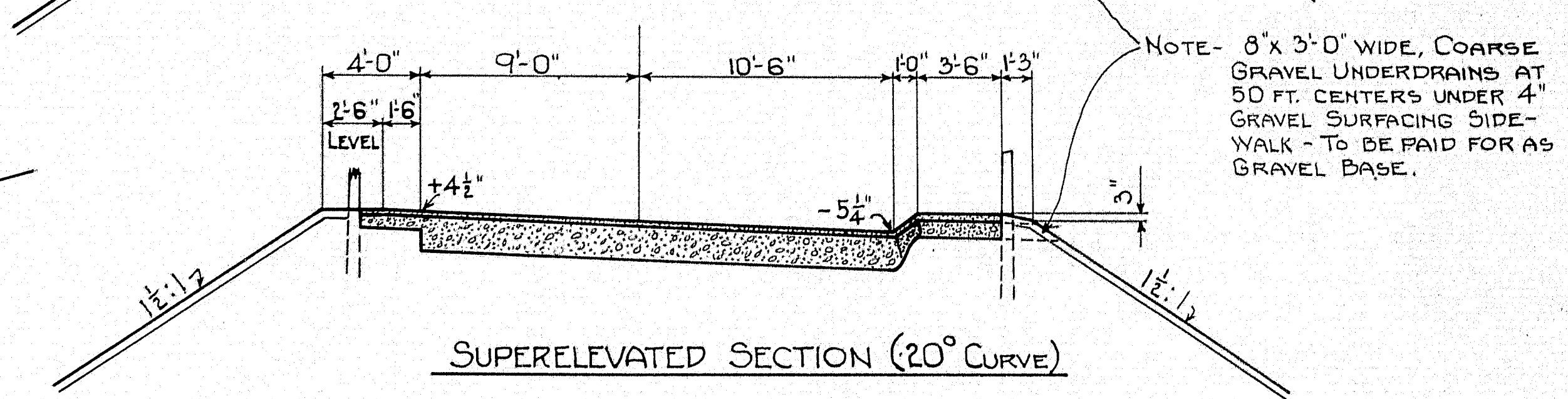
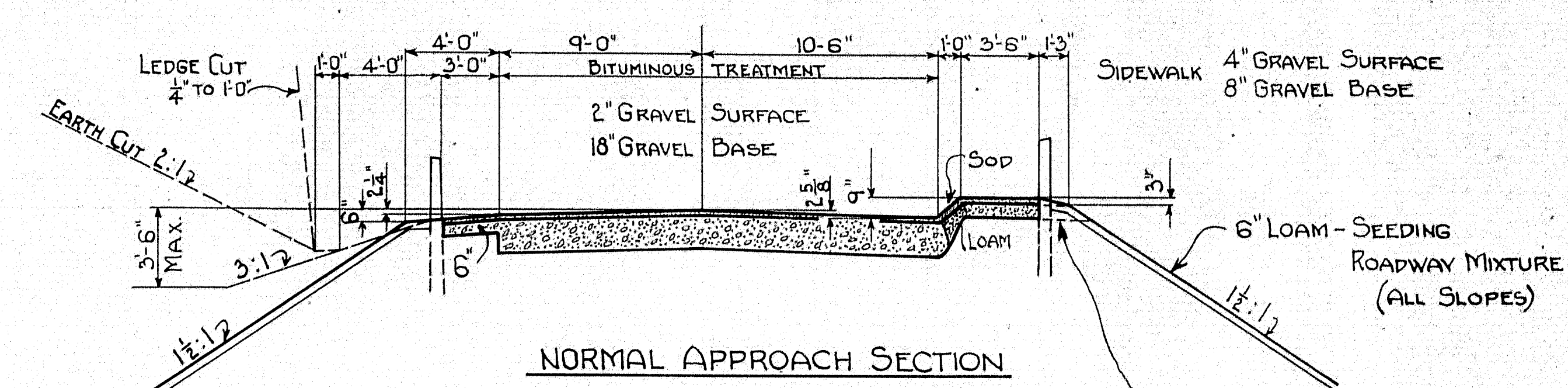
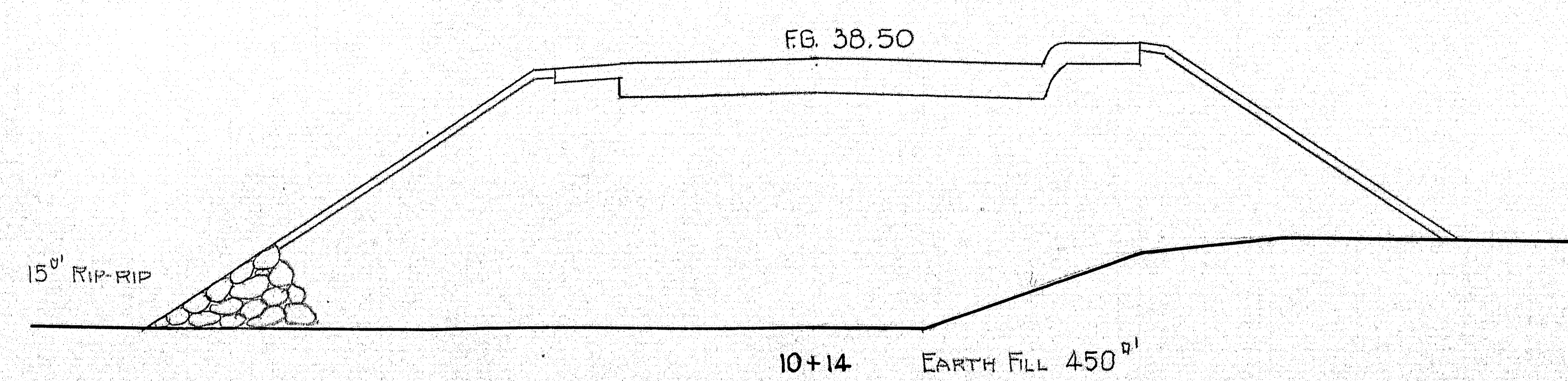
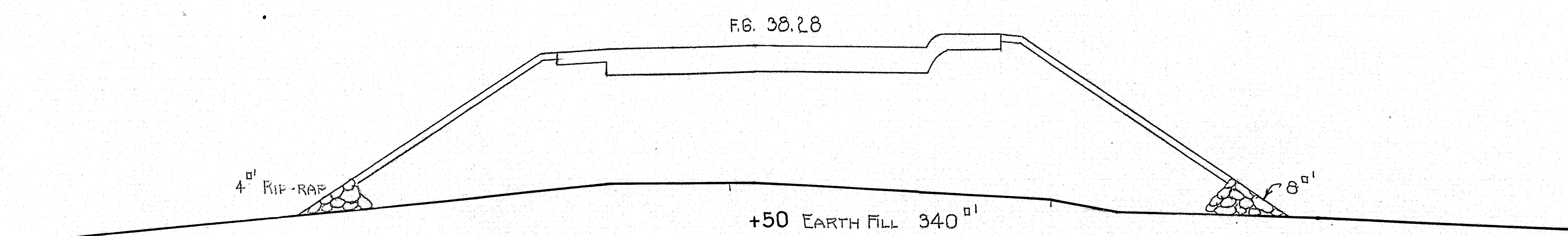
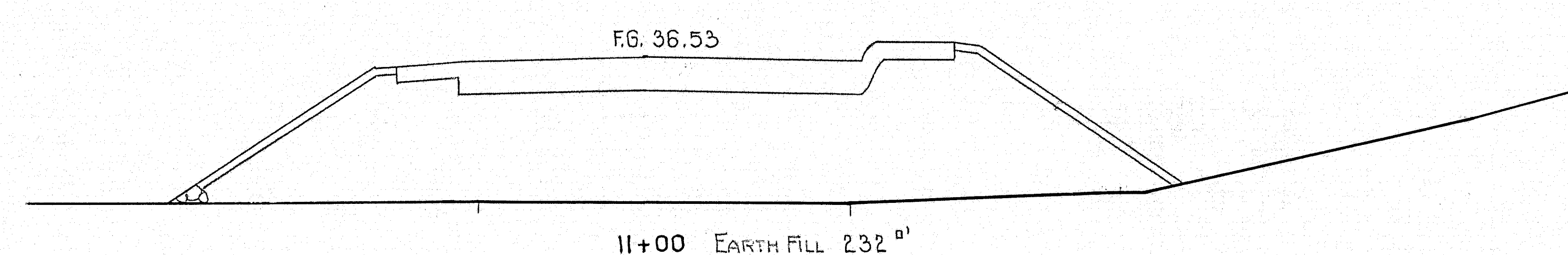
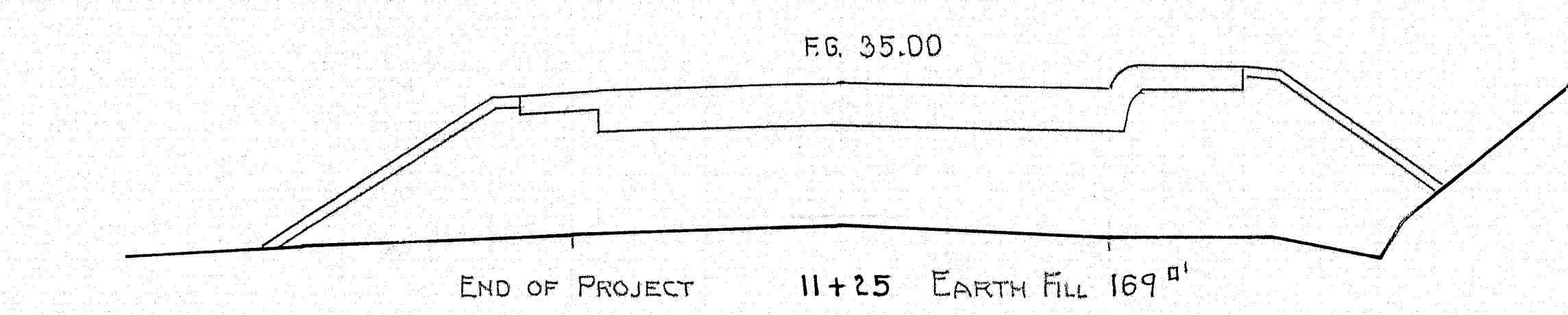
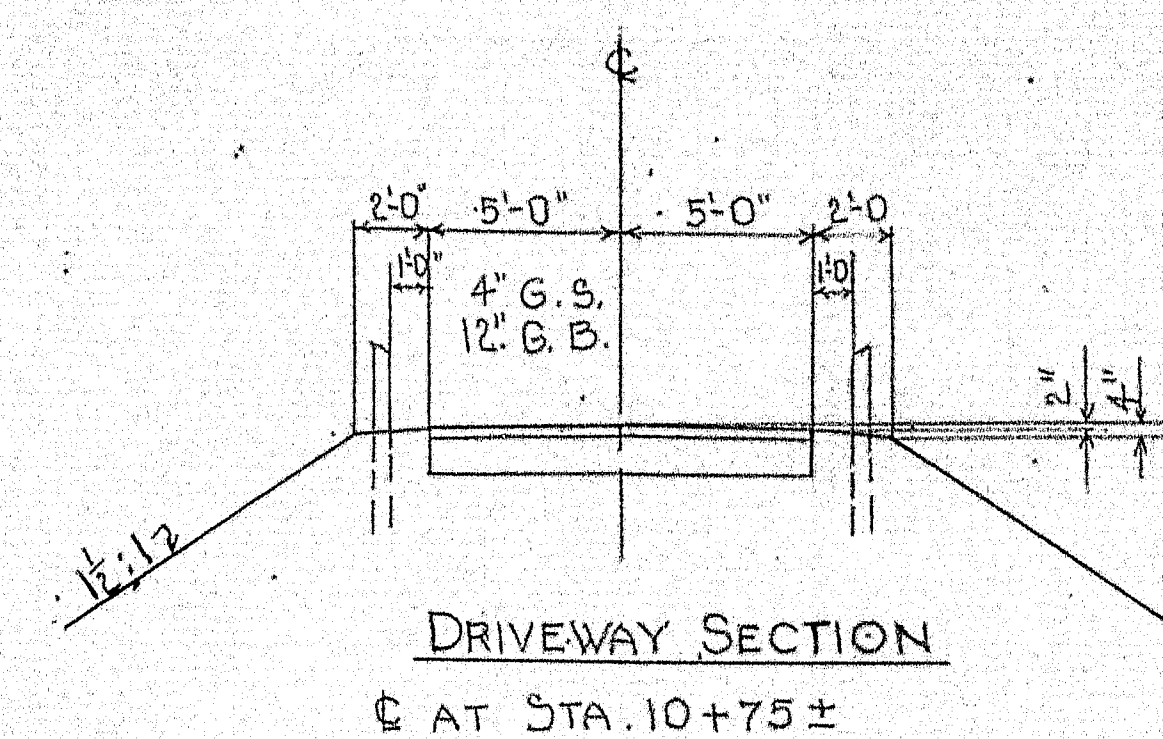
STATE HIGHWAY COMMISSION
 BRIDGE DIVISION
SOUTHPORT BRIDGE
 OVER
TOWNSEND GUT
 Between the towns of
SOUTHPORT
BOOTHBAY HARBOR
LINCOLN COUNTY
 REVISION WEST APPROACH
 Sheet 24 of 19 Augusta, Me. JULY, 1939.



P.W.A. PROJECT No. MAINE 1120-F
SOUTHPORT BRIDGE
SOUTHPORT - BOOTHBAY HARBOR
CROSS SECTIONS

SHEET 3 OF 19 AUGUSTA, ME. SEPT. 1936

0 1 2 3 4 5 INCHES



STONE STEPS 3'-0" WIDE, RISE 8" TREAD 12"
THE EDGES AND CORNERS SHALL BE ROUGHLY
SQUARED. THE EXPOSED SURFACES SHALL NOT
VARY MORE THAN 1/2" THE THEORETICAL PLANE.
TO BE PAID FOR AS RIP-RAP.

WOOD HAND RAIL TO BE PAID FOR UNDER ITEM 28" WIDE
CABLE GUARD RAIL; LENGTH TO BE THE HORIZONTAL
DISTANCE MEASURED CENTER TO CENTER OF END POSTS.

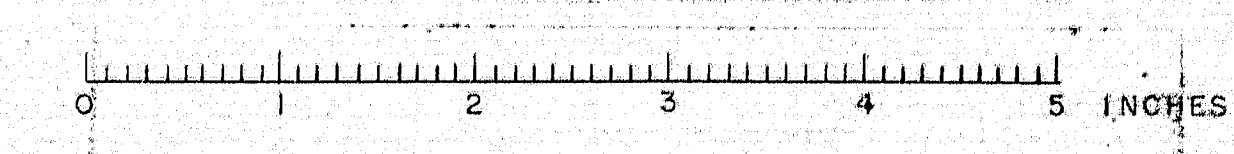
OPENING FOR STEPS TO BE
IMMEDIATELY IN BACK OF #2
ABUTMENT. ANCHORAGE FOR
CABLE GUARD RAIL TO BE AS
SHOWN IN 'STANDARD DETAILS'
FEB. 17, 1933. ANCHOR POST
TO BE SET WITHIN 1' OF STONE
STEPS. ALL OTHER DETAILS
FOR WIRE CABLE GUARD RAIL
TO BE AS SHOWN IN 'STAND-
ARD DETAILS' MAY, 1938.

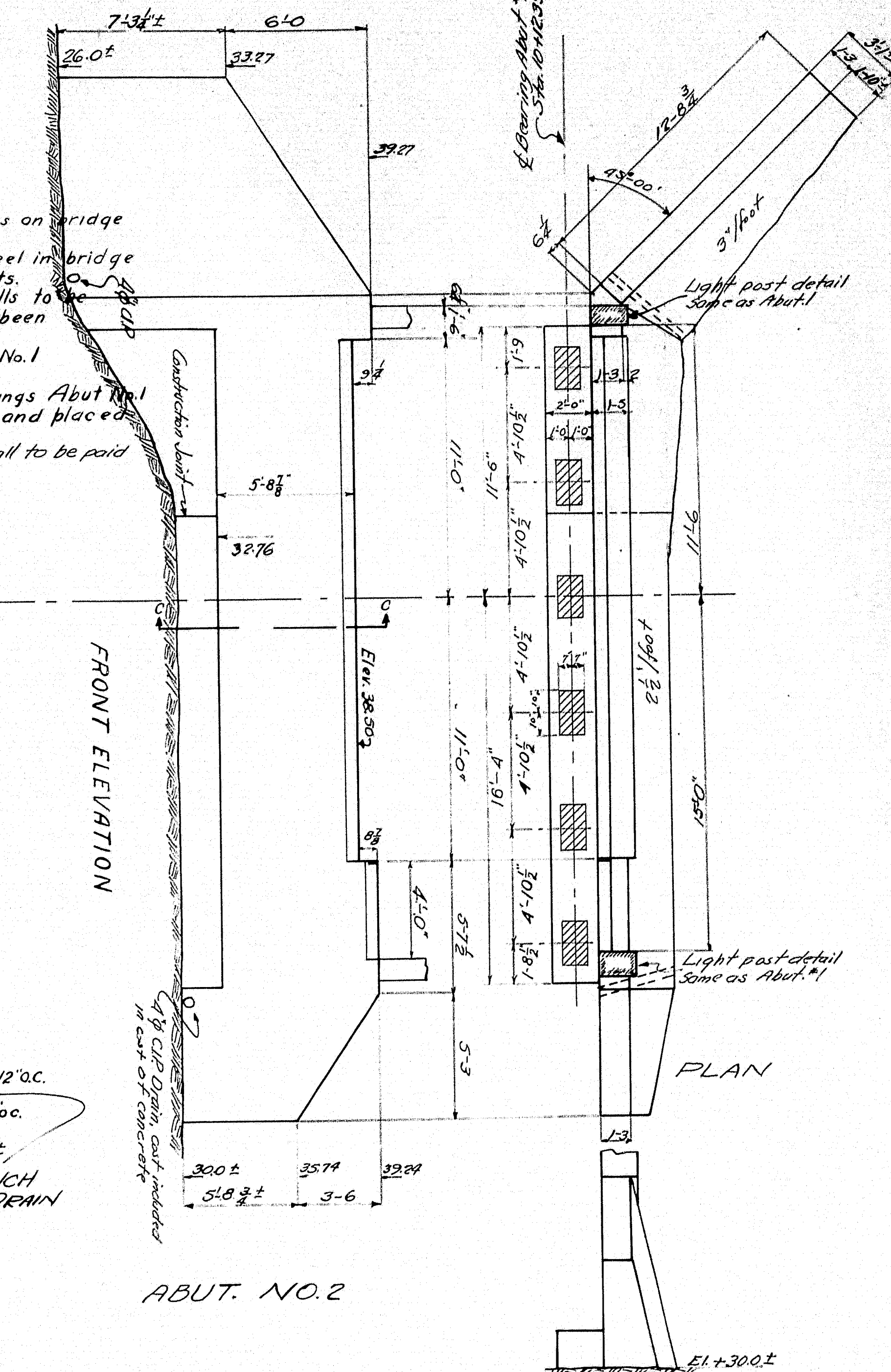
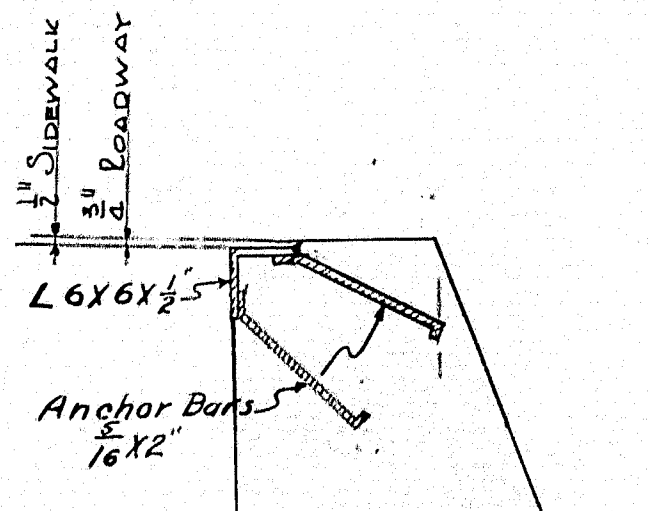
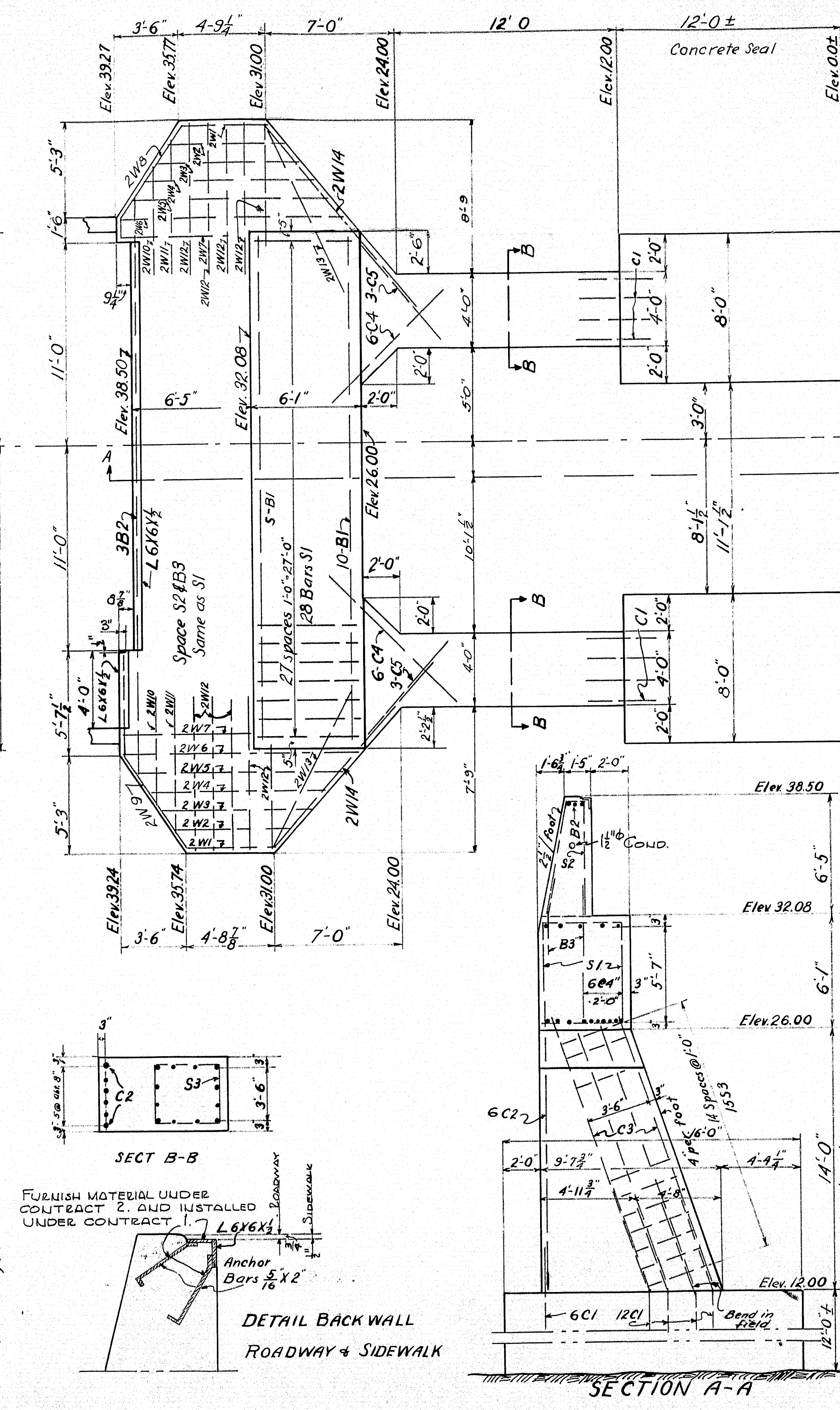
P.W.A. Project No. MAINE 1120-F

SOUTHPORT BRIDGE
SOUTHPORT-BOOTHBAY HARBOR
CROSS SECTIONS

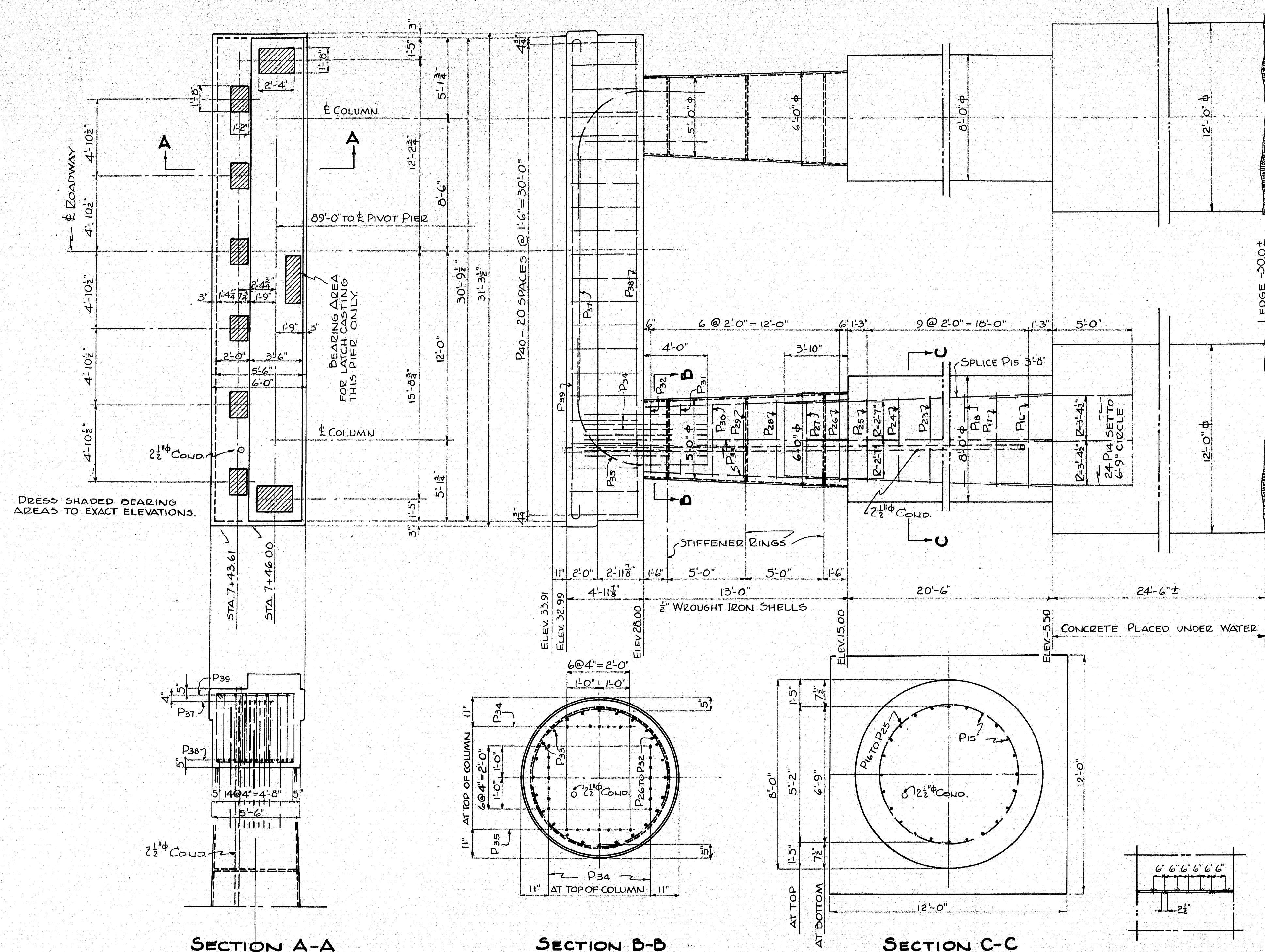
SHEET 4 OF 19 AUGUSTA, ME. SEPT. 1938.

38-5





SHEET 5 OF 19 SHEETS AUGUSTA Me. OCT. 19.



SECTION A-A

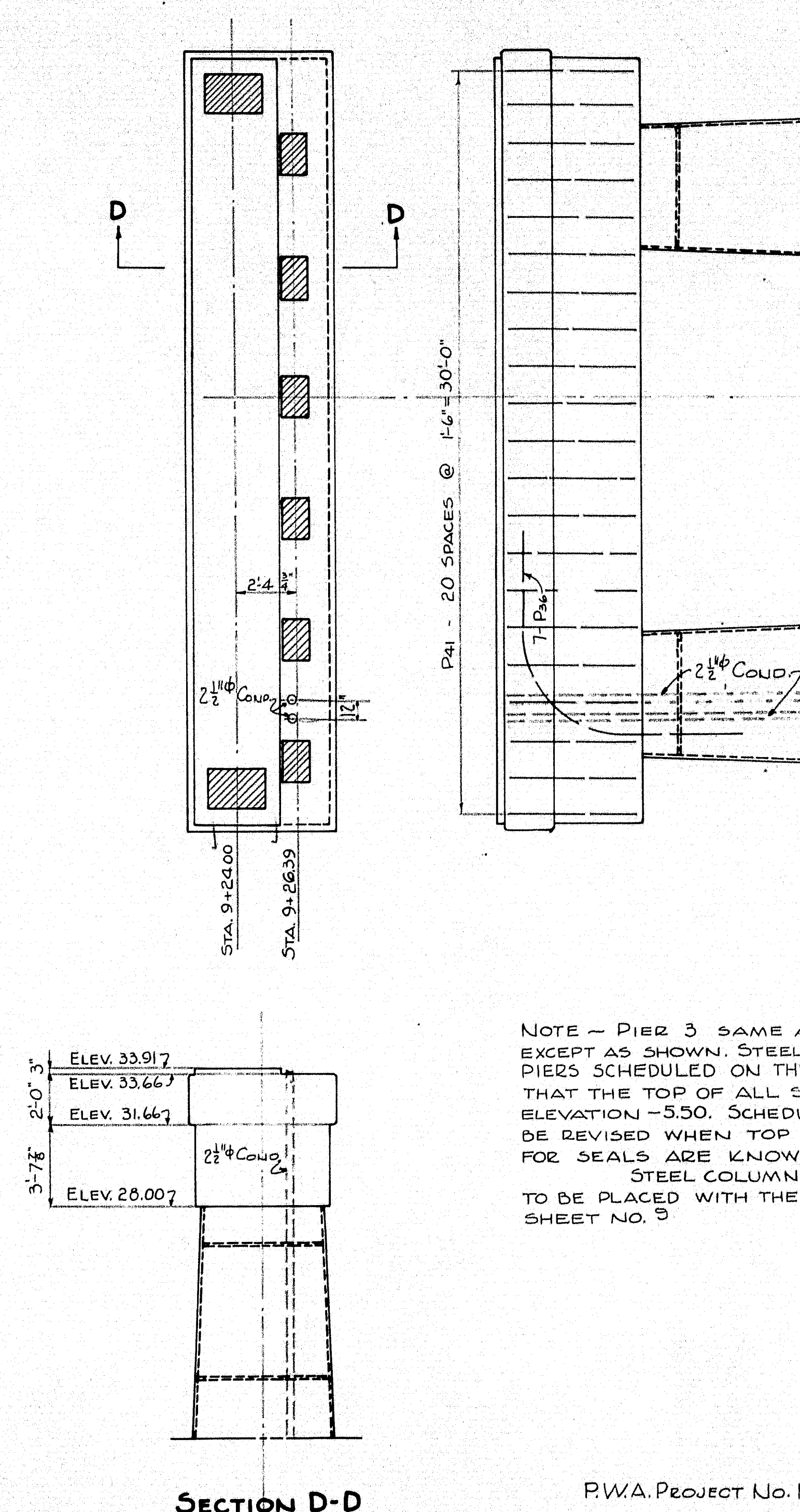
SECTION B-B

SECTION C-C

PIER 1

STIFFENER RING
3x3/8" STEEL PLATE TO BE PAID FOR
AS WROUGHT IRON, 8'x22' LONG
FILLET WELDS STAGGERED 6" C-C.

JOINTS IN SHELL TO BE MADE
SAME AS THOSE FOR SHELL FOR
PIVOT PIER.



SECTION D-D

PIER 3

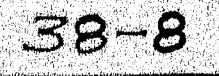
NOTE - PIER 3 SAME AS PIER 1
EXCEPT AS SHOWN. STEEL FOR BOTH
PIERS SCHEDULED ON THE BASIS
THAT THE TOP OF ALL SEALS IS AT
ELEVATION -5.50. SCHEDULE MUST
BE REVISED WHEN TOP ELEVATIONS
FOR SEALS ARE KNOWN.
STEEL COLUMNS FOR FENDERS
TO BE PLACED WITH THE SEAL, SEE
SHEET NO. 9

P.W.A. PROJECT NO. MAINE 1120-F

DESIGN CLP
TRACES CHECK

TOWN 0815
BRIDGE 2709

STATE HIGHWAY COMMISSION
BRIDGE DIVISION
SOUTHPORT BRIDGE
OVER
TOWNSEND GUT
BETWEEN THE TOWNS OF
SOUTHPORT & BOOTHBAY HARBOR
LINCOLN COUNTY
PIERS NOS. 1 AND 3
SHEET 6 OF 13 SHEETS AUGUSTA ME OCT 1935

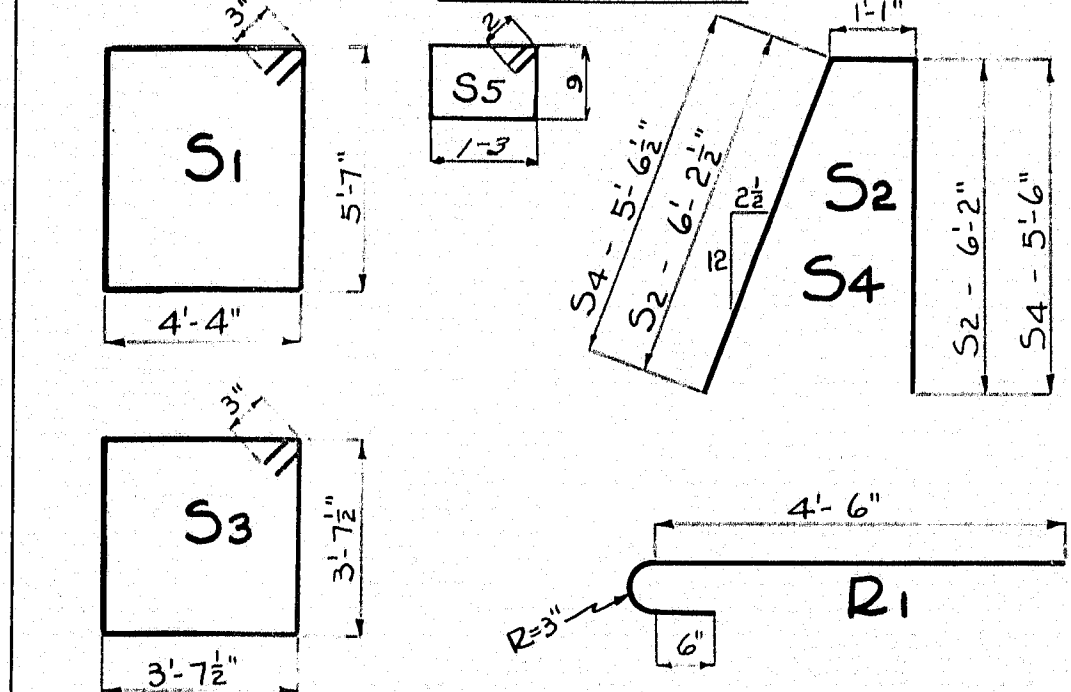


REINFORCING STEEL SCHEDULE

STRAIGHT BARS

MARK	SIZE	NUMBER	LENGTH	LOCATION
C1	1" ϕ	36	9'-0"	ABUT. - SEAL
C2	1" ϕ	12	16'-0"	" COLUMNS
C3	1" ϕ	24	19'-0"	" " "
C4	3/4" ϕ	12	10'-0"	" " "
C5	3/4" ϕ	6	6'-6"	" " "
B1	1" ϕ	15	27'-4"	" #1 BR. SEAT
B2	3/4" ϕ	12	18'-0"	" BR. WALL
B3	1/2" ϕ	112	4'-0"	" " "
B4	3/8" ϕ	19	4'-5"	" #2 BR. SEAT
B5	3/8" ϕ	6	27'-4"	" " "
W1	1/2" ϕ	4	4'-7"	" WINGS
W2	1/2" ϕ	4	6'-0"	" " "
W3	1/2" ϕ	4	7'-8"	" " "
W4	1/2" ϕ	4	9'-4"	" " "
W5	1/2" ϕ	4	10'-8"	" " "
W6	1/2" ϕ	4	12'-3"	" " "
W7	1/2" ϕ	4	13'-0"	" " "
W8	1/2" ϕ	2	7'-0"	" " "
W9	1/2" ϕ	2	11'-0"	" " "
W10	1/2" ϕ	4	6'-0"	" " "
W11	1/2" ϕ	4	7'-6"	" " "
W12	1/2" ϕ	20	8'-3"	" " "
W13	1/2" ϕ	4	10'-0"	" " "
W14	1/2" ϕ	4	13'-0"	" " "
P1	1" ϕ	44	6'-0"	SWING PIER - SEAL
P2	3/4" ϕ	8	5'-0"	" " - BASE
P3	3/4" ϕ	8	13'-9"	" " "
P4	3/4" ϕ	12	17'-6"	" " "
P5	3/4" ϕ	18	21'-0"	" " "
P6	3/4" ϕ	92	17'-3"	" " - SIDES
P9	3/4" ϕ	36	2'-6"	" " "
P10	3/4" ϕ	8	5'-0"	" " CAP
P11	3/4" ϕ	8	13'-9"	" " "
P12	3/4" ϕ	12	17'-6"	" " "
P13	3/4" ϕ	18	21'-0"	" " "
P14	1" ϕ	96	9'-6"	PIERS 1 & 3 - SEAL
*P15	3/4" ϕ	192	14'-0"	" " COLUMNS
P33	3/4" ϕ	96	12'-10"	" " "
P34	3/4" ϕ	84	8'-0"	" " "
P37	3/4" ϕ	14	15'-6"	" " CAPS
P38	1" ϕ	30	30'-4"	" " "

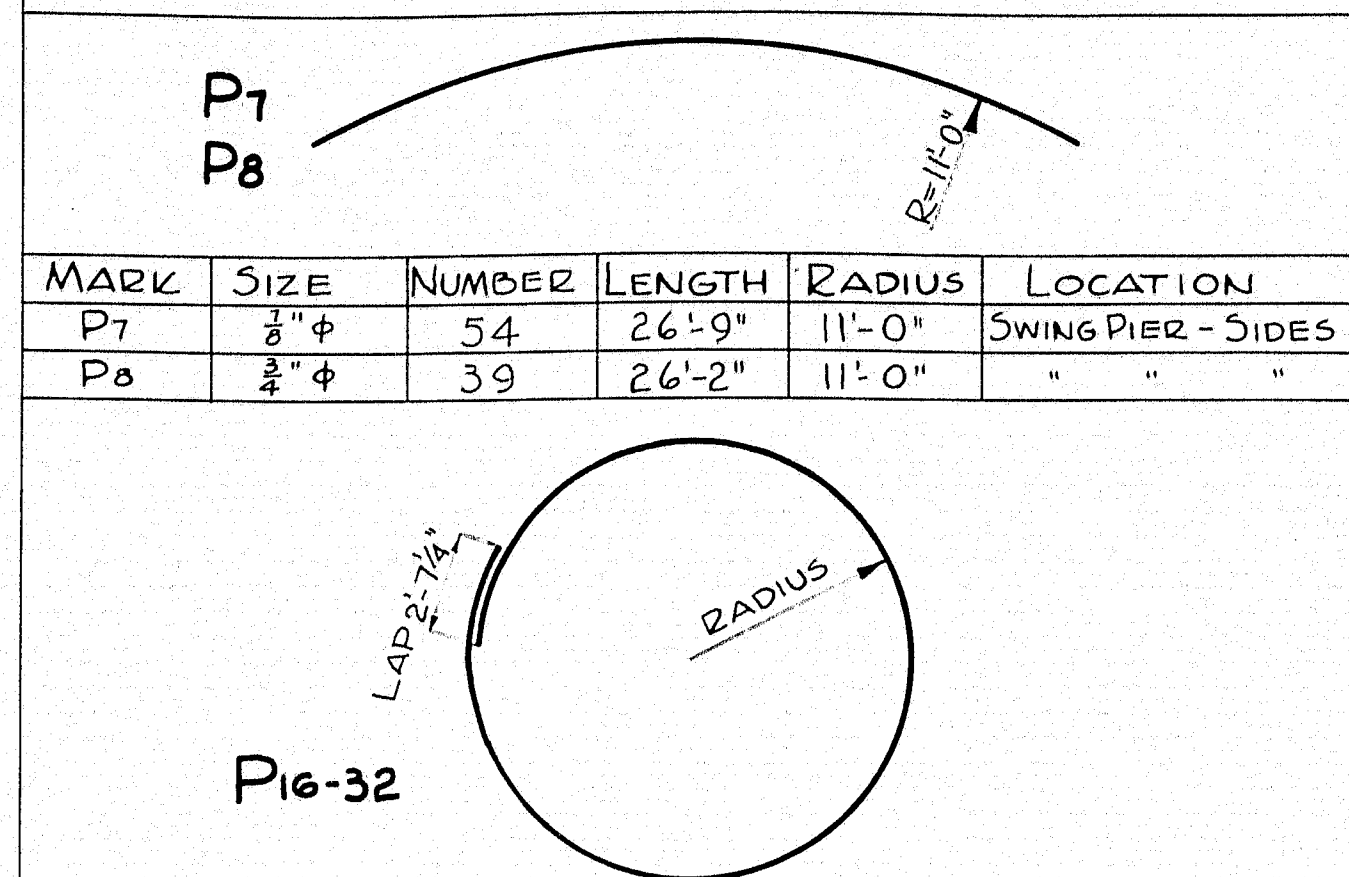
BENT BARS



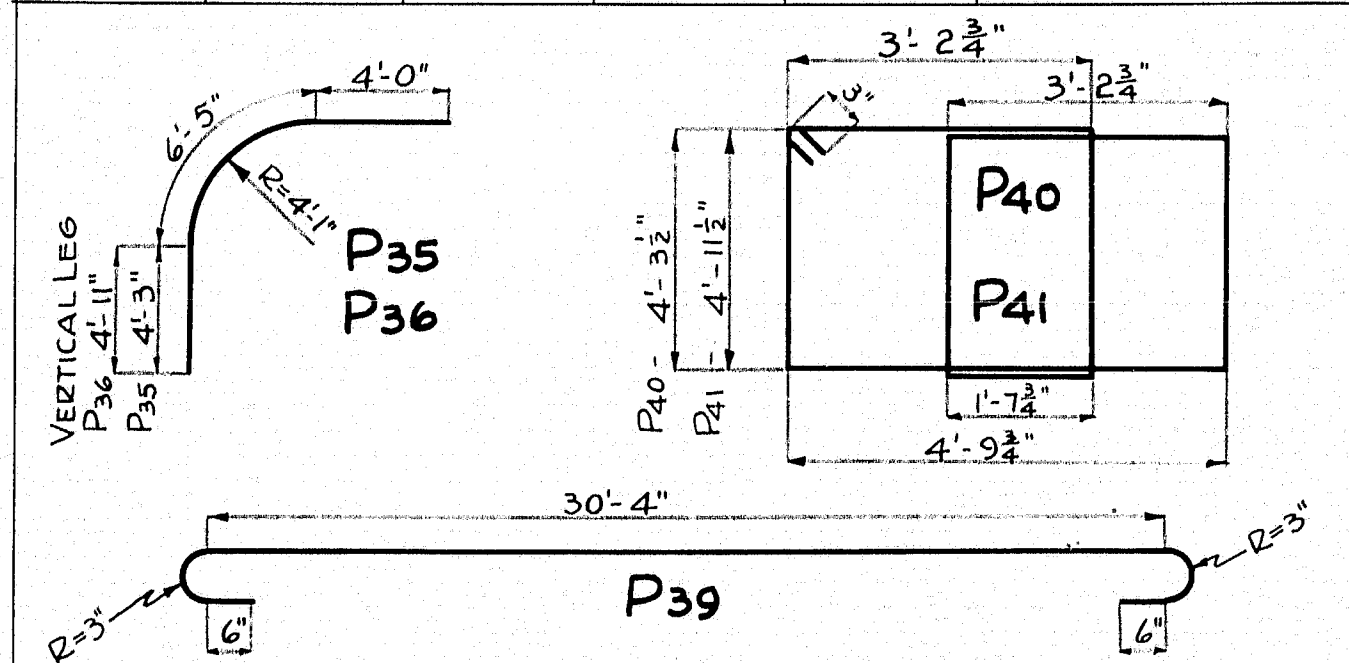
MARK	SIZE	NUMBER	LENGTH	LOCATION
S1	1/2" ϕ	27	20'-4"	ABUT. BR. SEATS
S2	1/2" ϕ	28	13'-5 1/2"	ABUT. 1 BACKWALL
S3	1/2" ϕ	30	15'-0"	ABUT. COLUMNS
S4	1/2" ϕ	28	12'-1 1/2"	ABUT. 2 BACKWALL
R1	3/4" ϕ	16	5'-9 1/2"	BACKWALL POSTS
S5	1/2" ϕ	12	4'-4"	" " "

REINFORCING STEEL SCHEDULE

BENT BARS



MARK	SIZE	NUMBER	LENGTH	RADIUS	LOCATION
*P16	3/8" ϕ	4	23'-11 1/2"	3'-4 3/4"	PIERS 1 & 3 COLUMNS
*P17	3/8" ϕ	4	23'-5"	3'-3 3/4"	" " "
*P18	3/8" ϕ	4	22'-10 3/4"	3'-2 3/4"	" " "
*P19	3/8" ϕ	4	22'-4 1/2"	3'-1 3/4"	" " "
*P20	3/8" ϕ	4	21'-11 3/4"	3'-1"	" " "
*P21	3/8" ϕ	4	21'-5 1/2"	3'-0"	" " "
*P22	3/8" ϕ	4	20'-11 1/4"	2'-11"	" " "
*P23	3/8" ϕ	4	20'-6 1/2"	2'-10 1/4"	" " "
*P24	3/8" ϕ	4	20'-0 1/4"	2'-9 1/4"	" " "
*P25	3/8" ϕ	4	19'-6"	2'-8 1/4"	" " "
P26	3/8" ϕ	4	19'-1 1/4"	2'-7 1/4"	" " "
P27	3/8" ϕ	4	18'-7 1/4"	2'-6 1/4"	" " "
P28	3/8" ϕ	4	18'-2 1/4"	2'-5 3/4"	" " "
P29	3/8" ϕ	4	17'-7 3/4"	2'-4 3/4"	" " "
P30	3/8" ϕ	4	17'-1 1/4"	2'-3 3/4"	" " "
P31	3/8" ϕ	4	16'-9"	2'-3"	" " "
P32	3/8" ϕ	4	16'-2 1/2"	2'-2"	" " "



MARK	SIZE	NUMBER	LENGTH	LOCATION
P35	3/8" ϕ	14	14'-8"	PIER 1 - COLUMNS
P36	3/8" ϕ	14	15'-4"	PIER 3 - "
P39	1" ϕ	14	32'-10 3/4"	PIERS 1 & 3 - CAPS
P40	3/8" ϕ	21	30'-7"	PIER 1 - CAP
P41	3/8" ϕ	21	33'-3"	PIER 3 - CAP

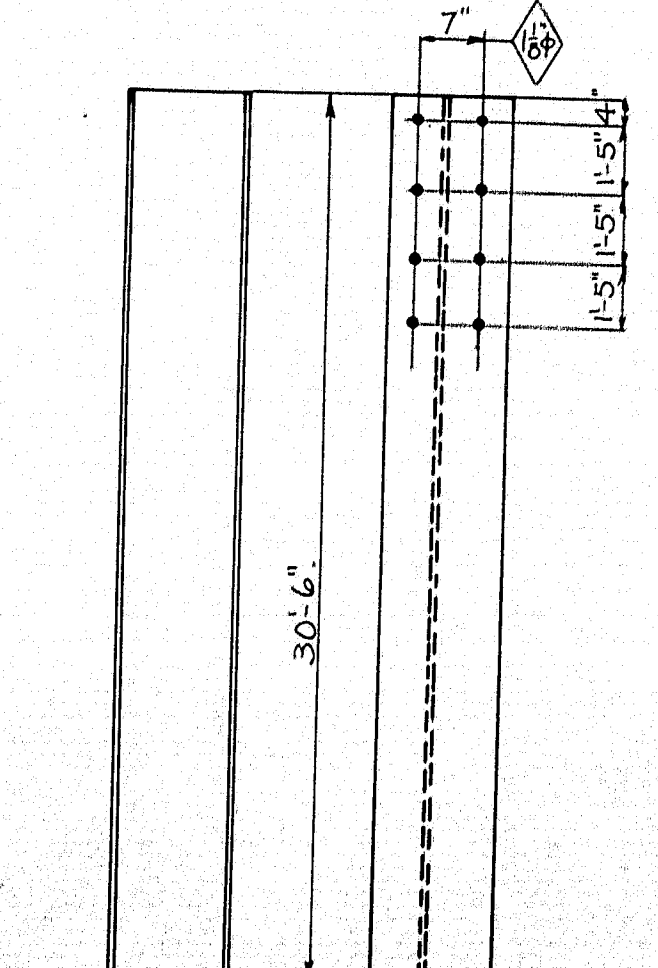
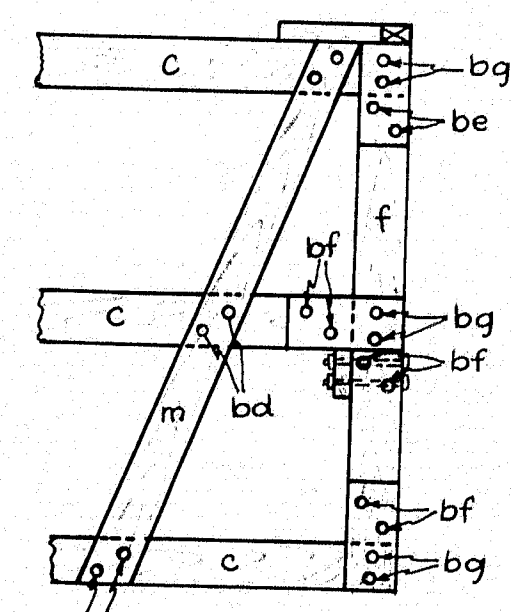
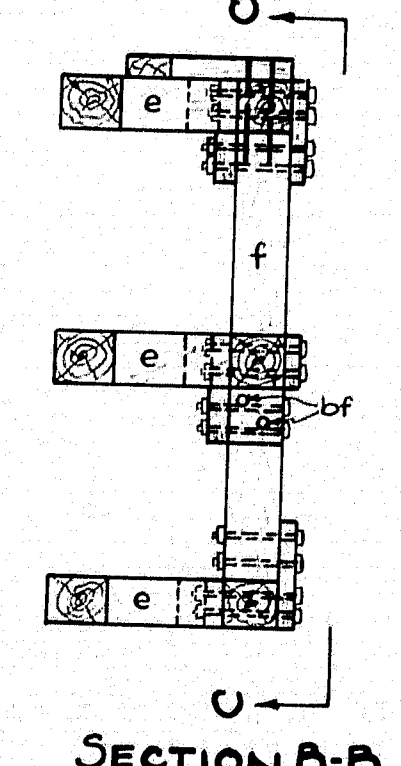
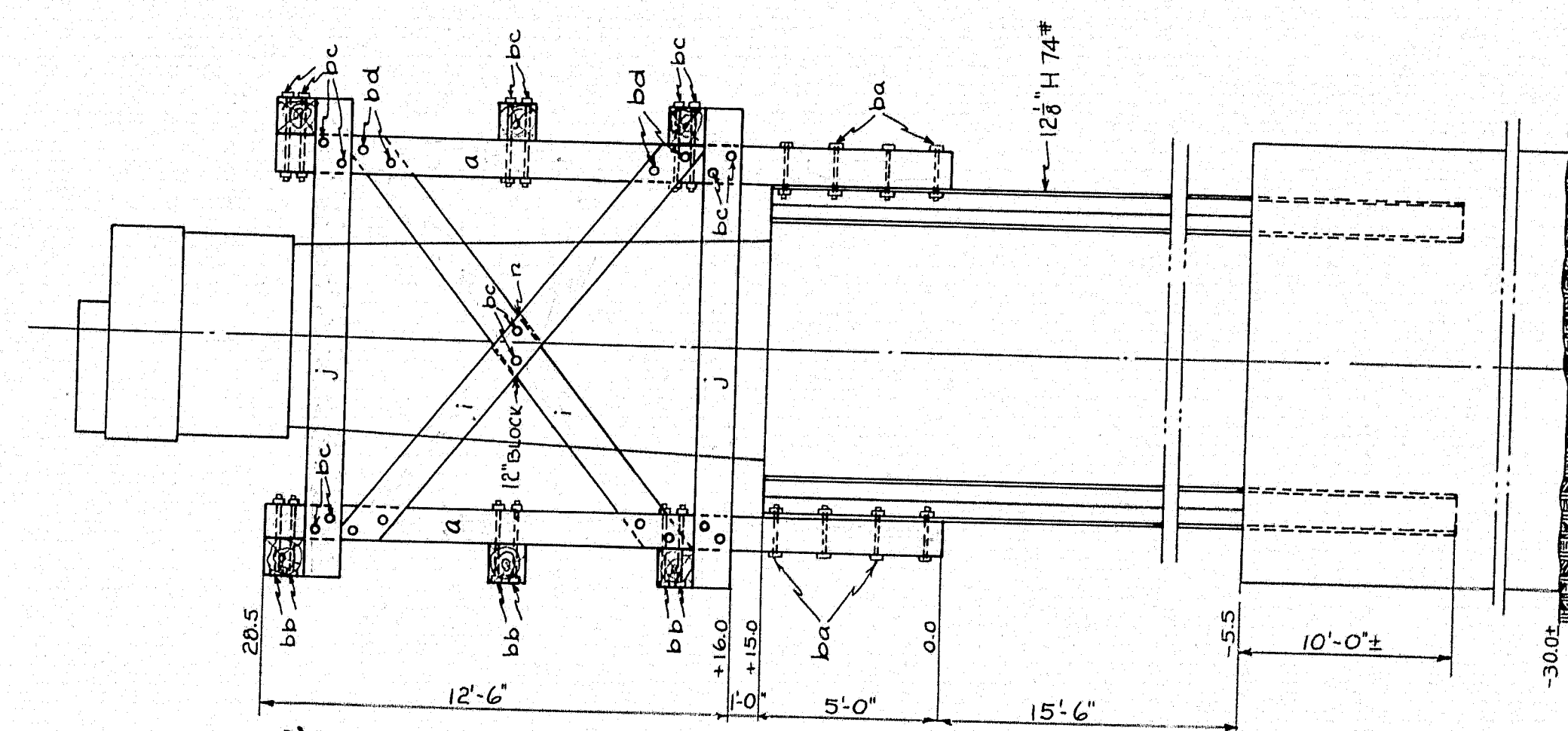
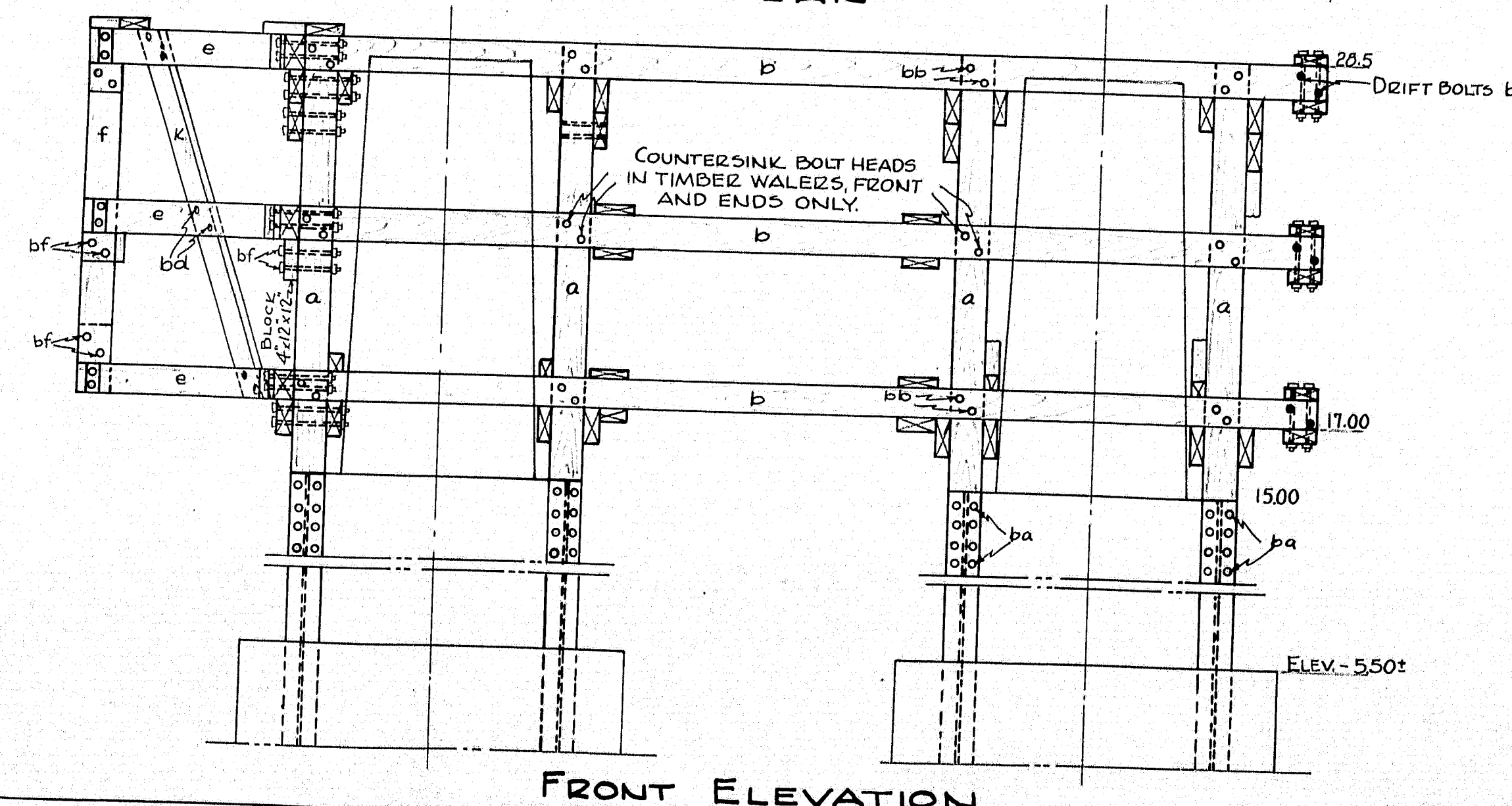
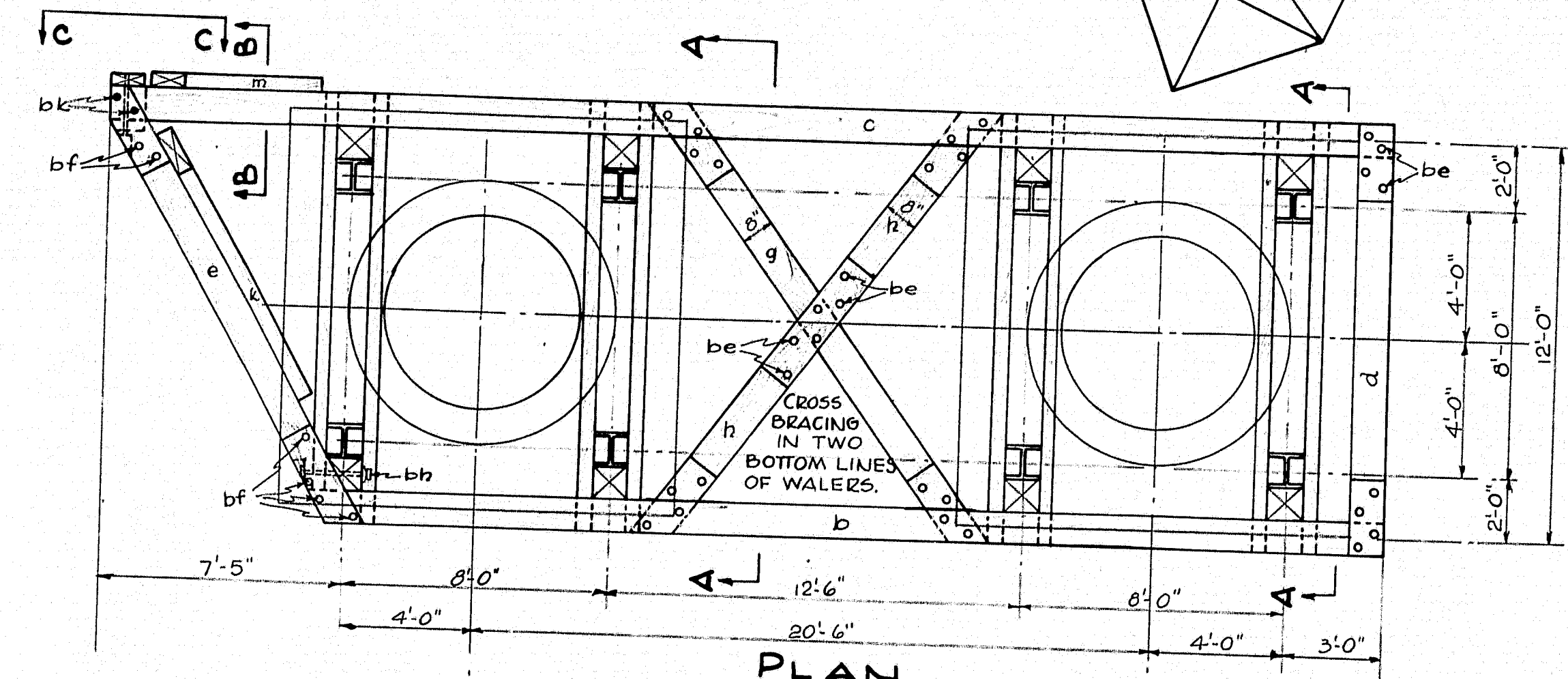
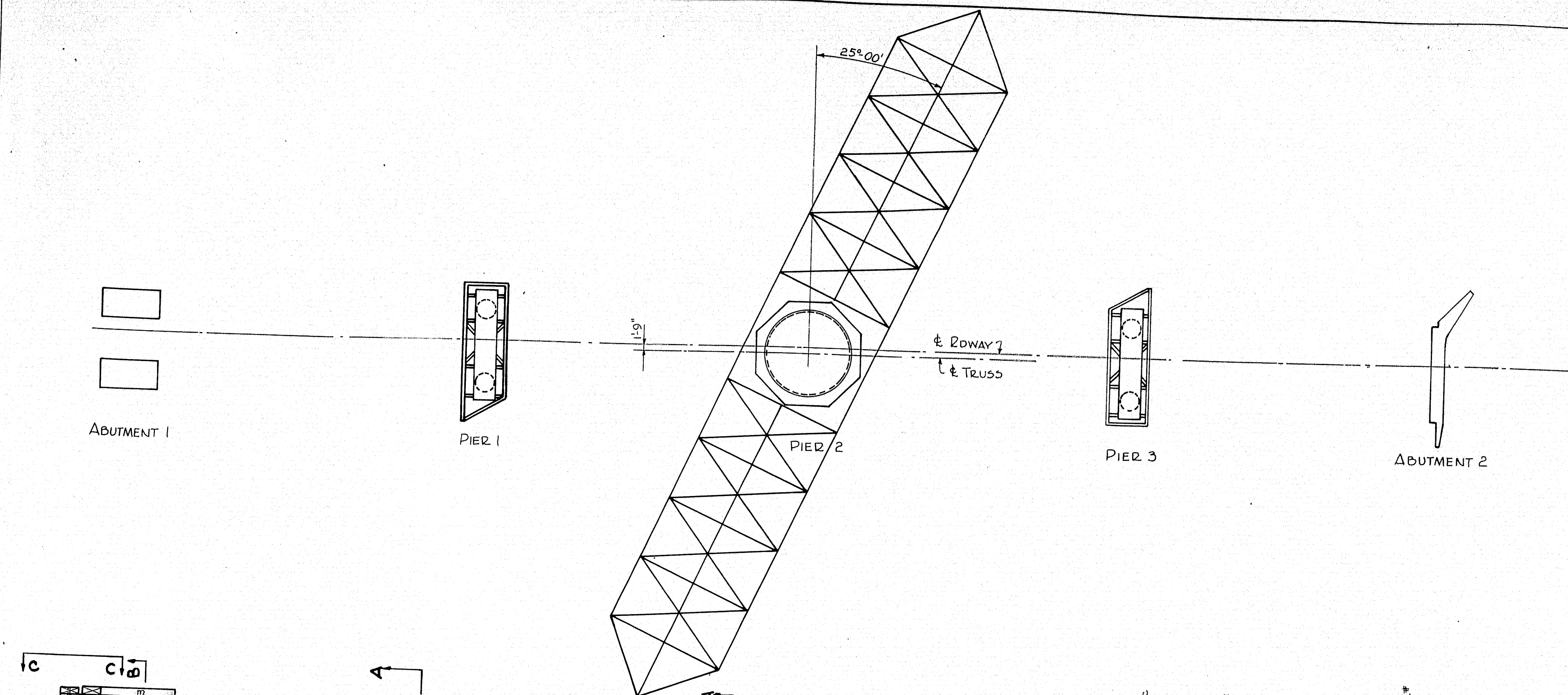
ALL STEEL TO BE PLAIN BARS OF STRUCTURAL GRADE
ALL DIMENSIONS ARE TO $\frac{1}{2}$ OF BARS.

*SCHEDULED ON THE BASIS THAT THE TOP OF
SEALS FOR PIERS 1 & 3 ARE AT ELEVATION
-5.50, TO BE REVISED WHEN FINAL ELEVATIONS
ARE KNOWN.

P.W.A. PROJECT NO. MAINE 1120-F

Design CLP-EB
Check DRK-GWS
TOWN 08-15
BRIDGE 2789

STATE HIGHWAY COMMISSION
BRIDGE DIVISION
SOUTHPORT BRIDGE
OVER
TOWNSEND GUT
BETWEEN THE TOWNS OF
SOUTHPORT & BOOTHBAY HARBOR
LINCOLN COUNTY
REINFORCING STEEL SCHEDULE -
SHEET 8 OF 19 SHEETS AUGUSTA ME. OCT. 1936



DETAIL OF BEARING POSTS
12" H 74#
TO BE PAID FOR AS STRUCTURAL STEEL,
FURNISHED AND INSTALLED UNDER CONTRACT 1.

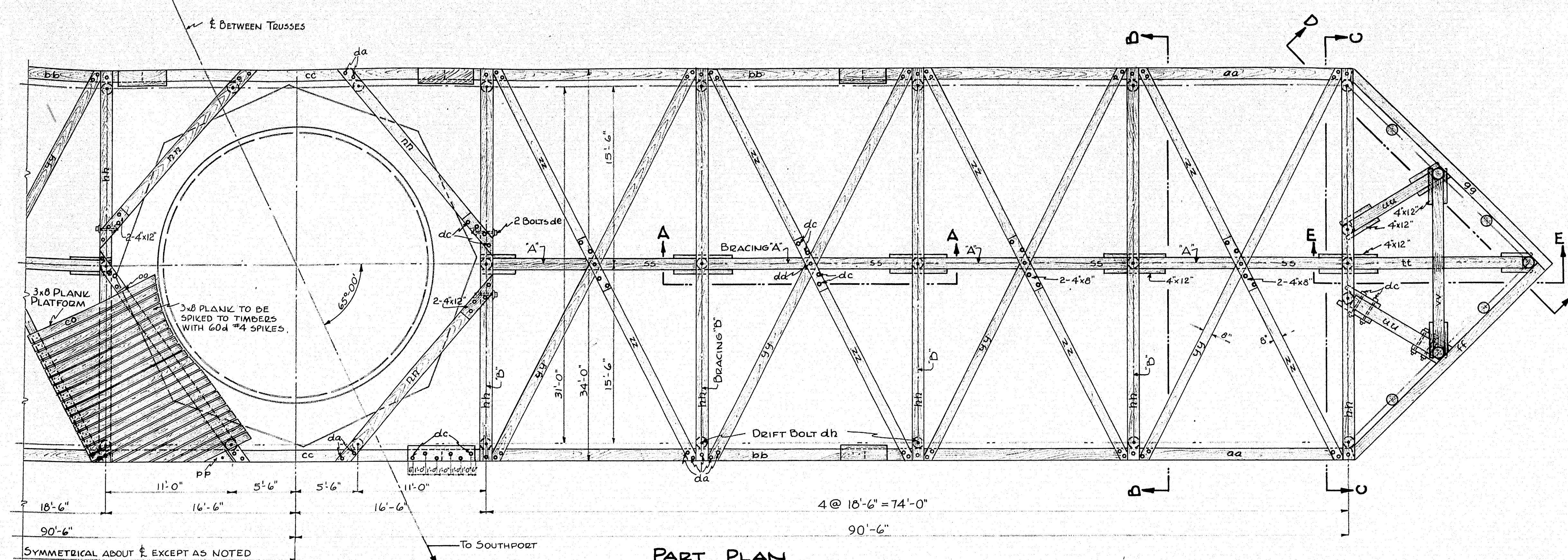
MATERIAL - FENDERS - PIERS 1 & 3									
TIMBER					HARDWARE				
MARK	SIZE	No. Pcs.	LENGTH		MARK	SIZE	No.	LENGTH	REMARKS
a	12"x12"	16	18'-6"		ba	1"φ	128	1'-2"	MACHINE BOLTS & CUT WASHERS
b	"	6	32'-7"		bb	1"φ	40	2'-1"	"
c	"	6	38'-11"		bc	1"φ	128	2'-2"	"
d	"	6	11'-0"		bd	1"φ	88	1'-8"	"
e	"	6	13'-9"		be	1"φ	140	1'-10"	"
f	"	2	10'-6"		bf	1"φ	32	1'-8"	"
g	8"x12"	4	15'-0"		bg	1"φ	12	2'-5"	"
h	"	8	7'-0"		bh	1"φ	12	2'-0"	"
i	6"x12"	16	14'-9"		bk	1"φ	28	2'-0"	DRIFT BOLTS
j	"	32	13'-0"						
k	"	2	16'-0"						
m	"	2	12'-9"						
130 LIN. FT. 4"x8" - END CONNECTIONS.					16 POSTS 12" H 74# x 30'-6" (COPPER BEARING)				
100 LIN. FT. 4"x12" - "					TREATED WITH WATERPROOF PAINT, AS PER SPECIFICATION FOR WROUGHT IRON SHELLS				
10 LIN. FT. 12"x12" FOR BLOCKS "n"									

MATERIAL - FENDER - PIER 2									
MARK	SIZE	No. Pcs.	LENGTH		MARK	SIZE	QUANTITY		REMARKS
aa	12"x12"	8	42'-0"		bb	4"x16"	310 LIN. FT.		SPICE WALETS
bb	"	12	37'-0"		cc	4"x12"	160 "		"
cc	"	4	24'-6"		dd	4"x8"	220 "		END CONNECTIONS
dd	"	4	23'-6"		ee	4"x12"	720 "		"
ee	"	4	30'-6"		ff	"			"
ff	"	6	23'-0"		gg	"			"
gg	"	6	24'-0"		hh	"			"
hh	"	10	34'-0"		kk	"			"
kk	"	16	14'-6"		mm	"			"
mm	"	4	11'-6"		nn	"			"
nn	"	3	19'-6"		oo	"			"
oo	"	1	21'-0"		pp	"			"
pp	"	1	10'-6"		ss	"			"
ss	"	16	17'-6"		tt	"			"
tt	"	4	14'-6"		BOLT SCHEDULE				
uu	"	8	8'-0"		MARK	SIZE	No.	LENGTH	REMARKS
vv	"	4	14'-6"		da	1"φ	264	2'-2"	MACHINE BOLTS & CUT WASHERS
xx	8"x12"	1	30'-0" CUT INTO BLOCKS		db	"	190	2'-1"	"
yy	"	8	38'-6"		dc	"	800	1'-11"	"
zz	"	16	19'-0"		dd	"	8	2'-11"	"
ca	"	16	9'-6"		de	"	46	1'-9"	"
cb	4"x8"	40	20'-6"		df	"	6	2'-7"	"
cc	3"x8"	260 LIN. FT. FOR PLATFORM			dg	"	230	1'-6"	"
cd	6"x12"	8	25'-0"		dh	"	38	2'-0"	DRIFT BOLTS
ce	6"x12"	1	30'-0" CUT INTO BLOCKS		dk	"	3	1'-8"	"

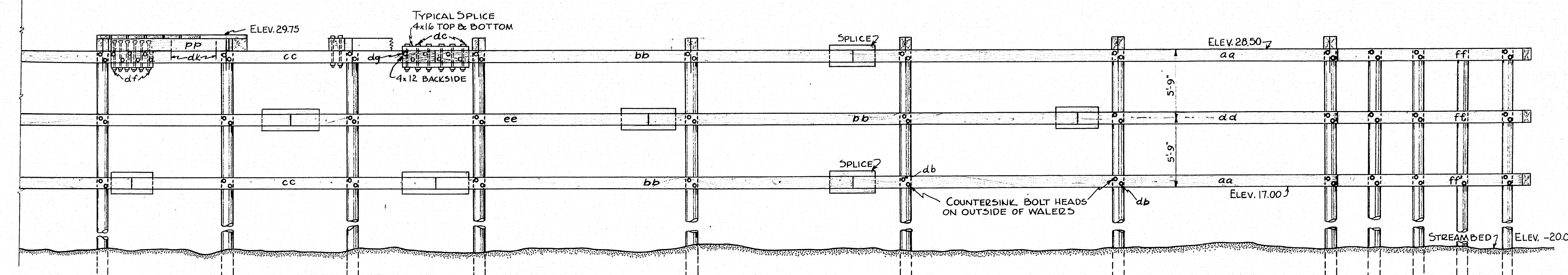
ALL HARDWARE TO BE GALVANIZED.
PILE LENGTHS SHOWN ARE FOR ESTIMATE ONLY.
ELEVATIONS SHOWN FOR TOP OF SEAL FOR ESTIMATE ONLY.

GENERAL NOTES
SEE SPECIFICATIONS FOR PRESERVATIVE TREATMENT
ALL TIMBER TO BE SOUTHERN YELLOW PINE OR DOUGLAS FIR.

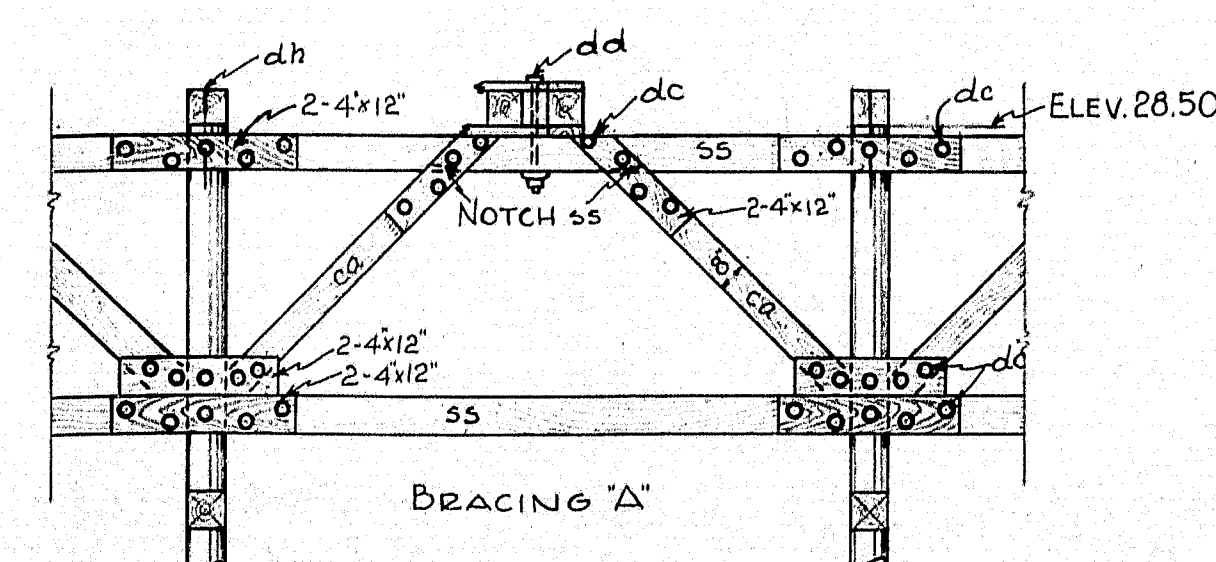
RWA, PROJECT NO. MAINE 1120-F
DESIGN E.B.
TRACE CLP-DB CHECK *[Signature]* TOWN 08-15
BRIDGE 2789
STATE HIGHWAY COMMISSION
BRIDGE DIVISION
SOUTHPORT BRIDGE
OVER
TOWNSEND GUT
BETWEEN THE TOWNS OF
SOUTHPORT & BOOTHBAY HARBOR
LINCOLN COUNTY
FENDERS FOR PIERS 1 & 3
SHEET 9 OF 19 SHEETS AUGUST 1938



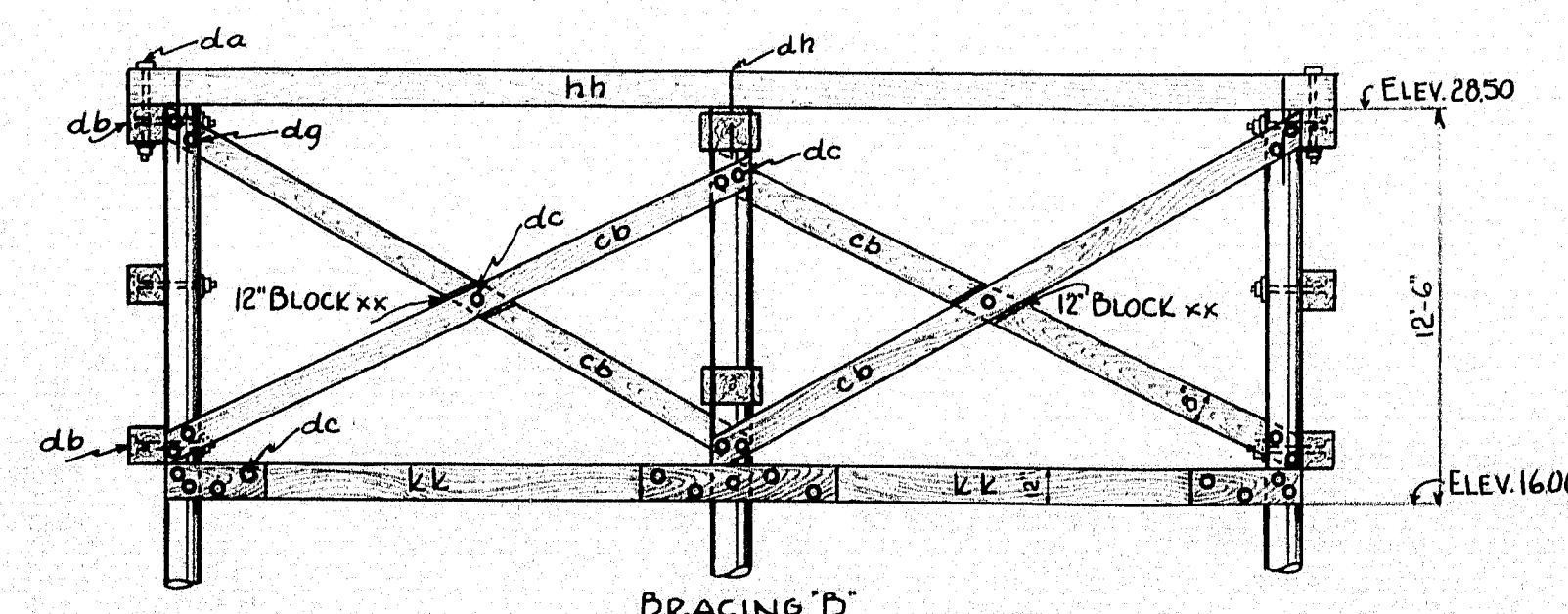
PART PLAN



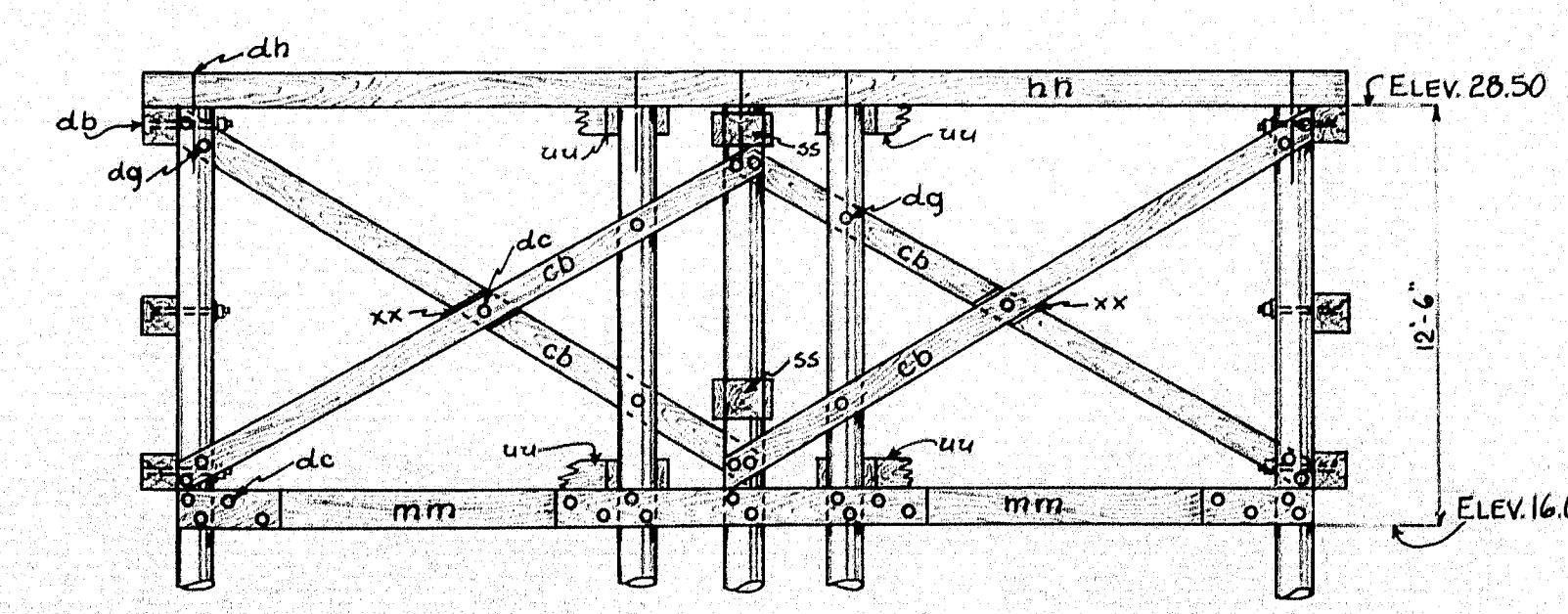
PART SIDE ELEVATION



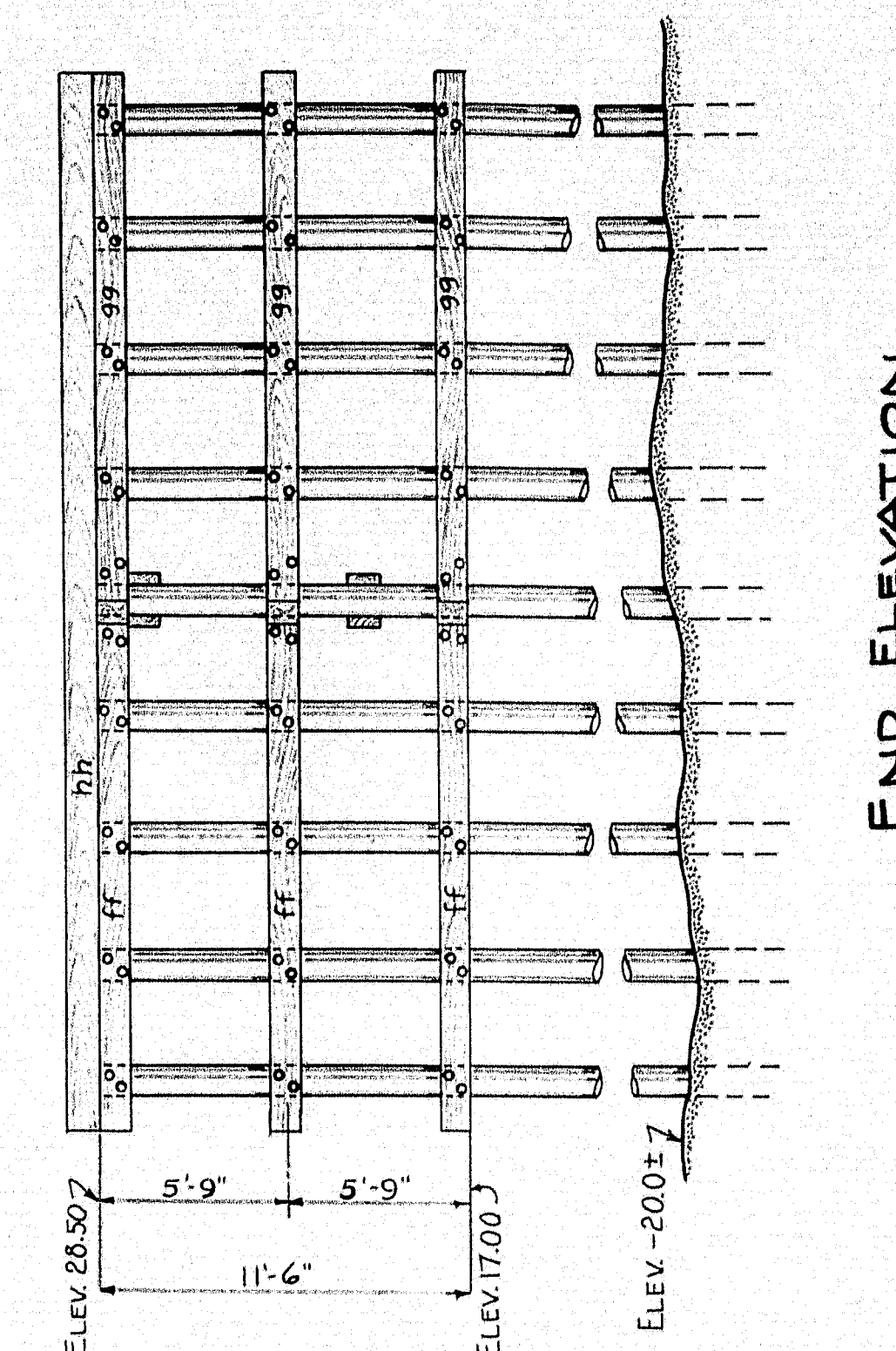
SECTION A-A



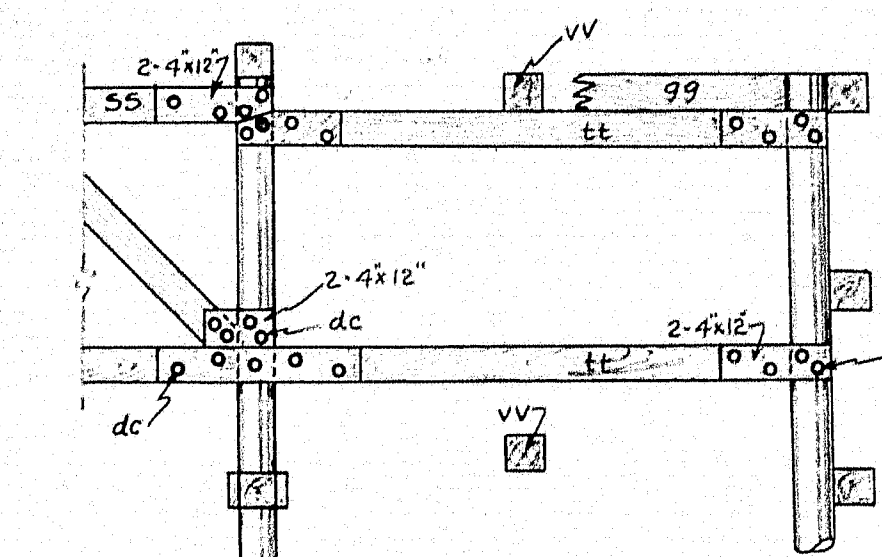
SECTION B-B



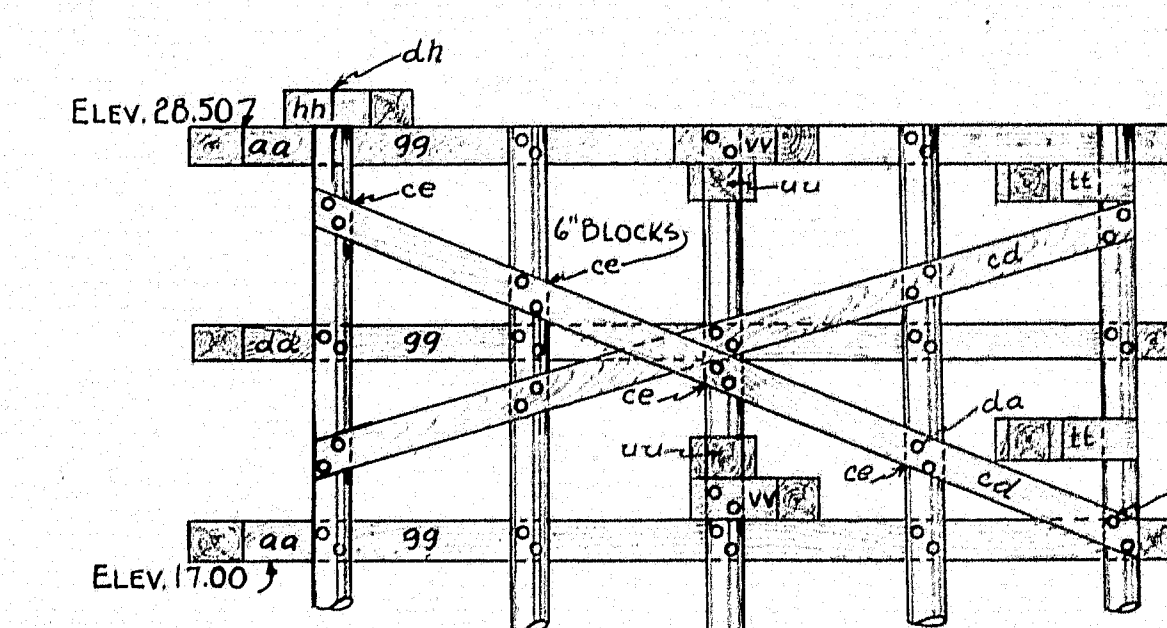
SECTION C-C



END ELEVATION

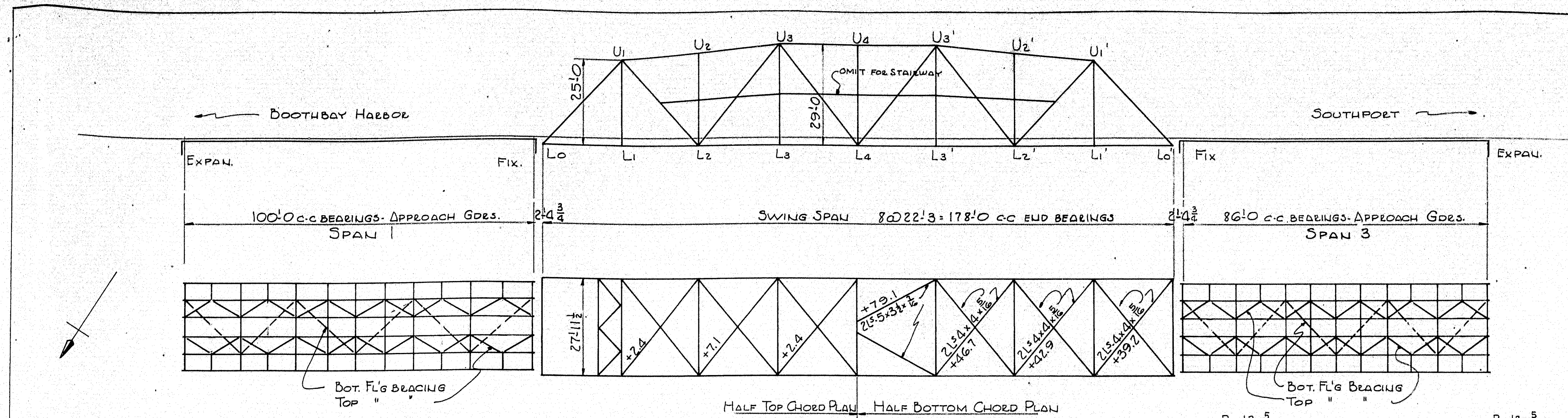


SECTION E-E



SECTION D-D

PWA PROJECT NO. MAINE 1120-F
 DESIGN ED TOWN 08-15
 TRACE B0 CHECKED BRIDGE 2789
 STATE HIGHWAY COMMISSION
 BRIDGE DIVISION
SOUTHPORT BRIDGE
 OVER
TOWNSEND GUT
 BETWEEN THE TOWNS OF
SOUTHPORT & BOOTHBAY HARBOR
LINCOLN COUNTY
 FENDER FOR PIER 2
 SHEET 10 OF 19 SHEETS AUGUST 1958 OCT. 1958

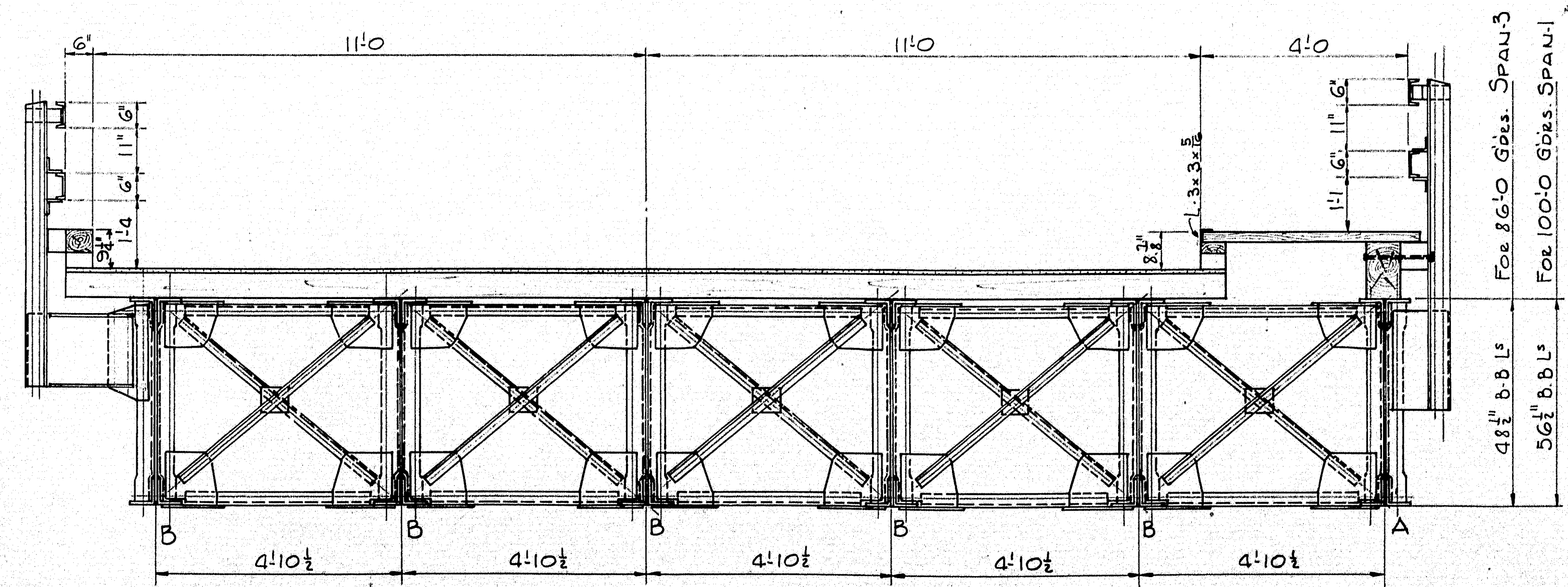


SWING SPAN - DESIGN STRESSES													
MEMBER	CASE I	CASE II	CASE III	CASE IV	CASE V	I+20%	I+III	I+V	II+IV	II+V	MAX. (VERT. FORCE)	VERT. INC. LAT. FORCE	DESIGN STRESS
LoU1	+19.6	+7.6	-58.4	-51.1	-50.3	+38.2	-38.8	-30.7	-43.5	-42.7	+23.5	-23.5	23.5
U1U3	+48.5	+33.8	-48.2	-37.7	-36.9	+38.2	+0.3	+11.6	-43.6	-3.1	+58.2	-3.9	58.2
U3U4	+179.1	+182.6	0	+30.0	+30.0	+215.8	+179.8	+209.8	+182.6	+182.6	+215.8	0	215.8
LoL2	-13	-5.2	+38.9	+33.9	+33.5	-15.6	+25.9	+20.5	+28.7	+28.3	+28.7	-15.6	40.7
L2L4	-101.2	-80.8	+53.6	+46.6	+46.6	-121.4	-67.6	-82.8	-95.4	-62.4	-121.4	270.1	270.1
U1L2	-53.0	-22.9	+22.1	+22.1	+22.1	-63.6	-73.8	-82.0	-71.9	-71.9	-82.0	142.5	142.5
L2U3	+86.8	+77.3	+44.9	+44.9	+44.9	+104.2	+131.7	+142.5	+133.1	+133.0	+142.5	0	142.5
U3L4	-129.3	-118.2	-56.9	-73.6	-73.6	-155.2	-184.2	-202.9	-191.8	-191.8	-202.9	212.9	212.9
U1L1	+23.3	+23.3	+44.1	+44.1	+44.1	+73.4	+73.4	+73.4	+73.4	+73.4	+73.4	0	73.4
U2L2	0	0	0	0	0	0	0	0	0	0	0	0	0
U3L3	+23.3	+23.3	+44.1	+44.1	+44.1	+73.4	+73.4	+73.4	+73.4	+73.4	+73.4	0	73.4
U4L4	0	0	0	0	0	0	0	0	0	0	0	0	0

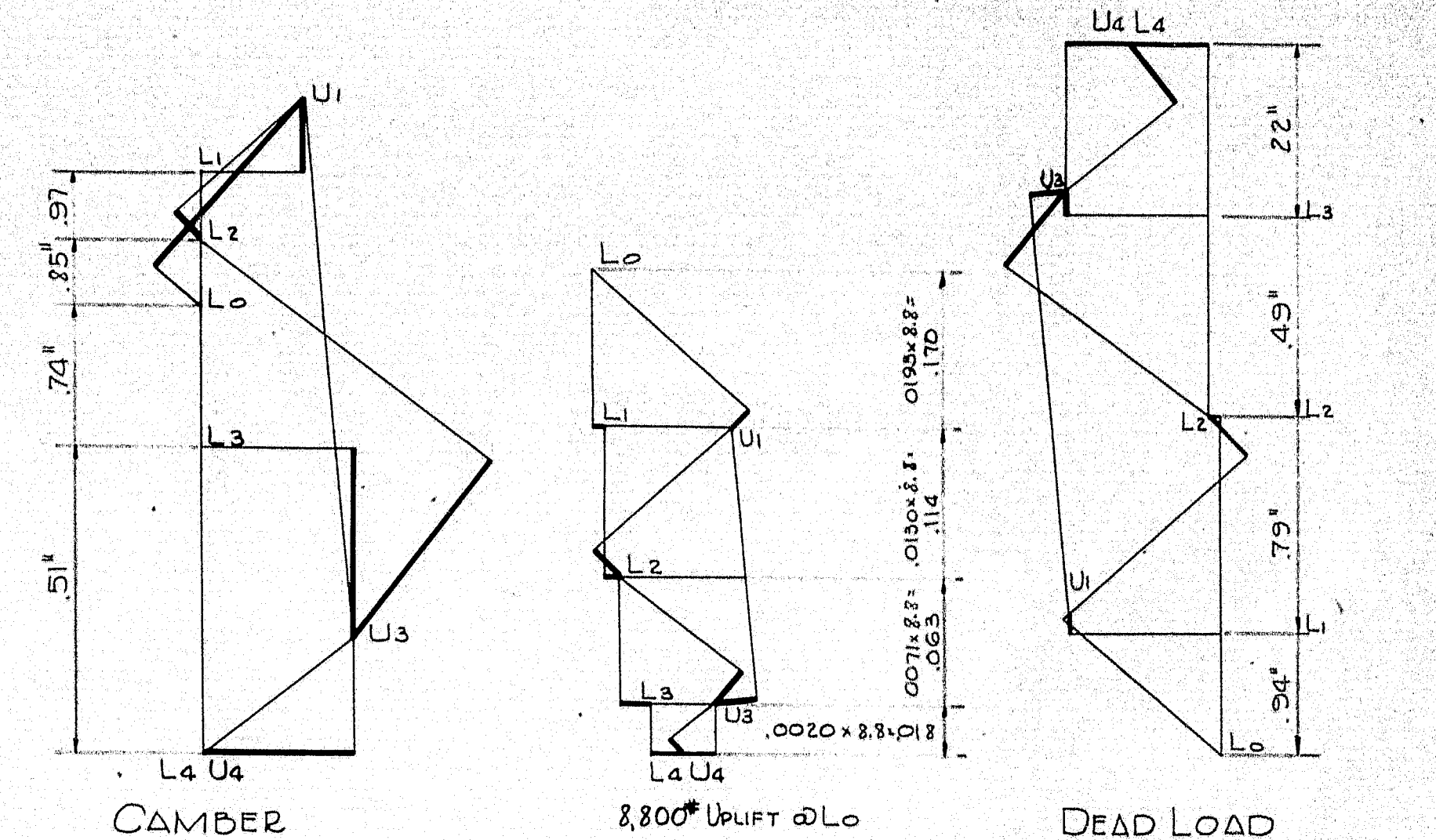
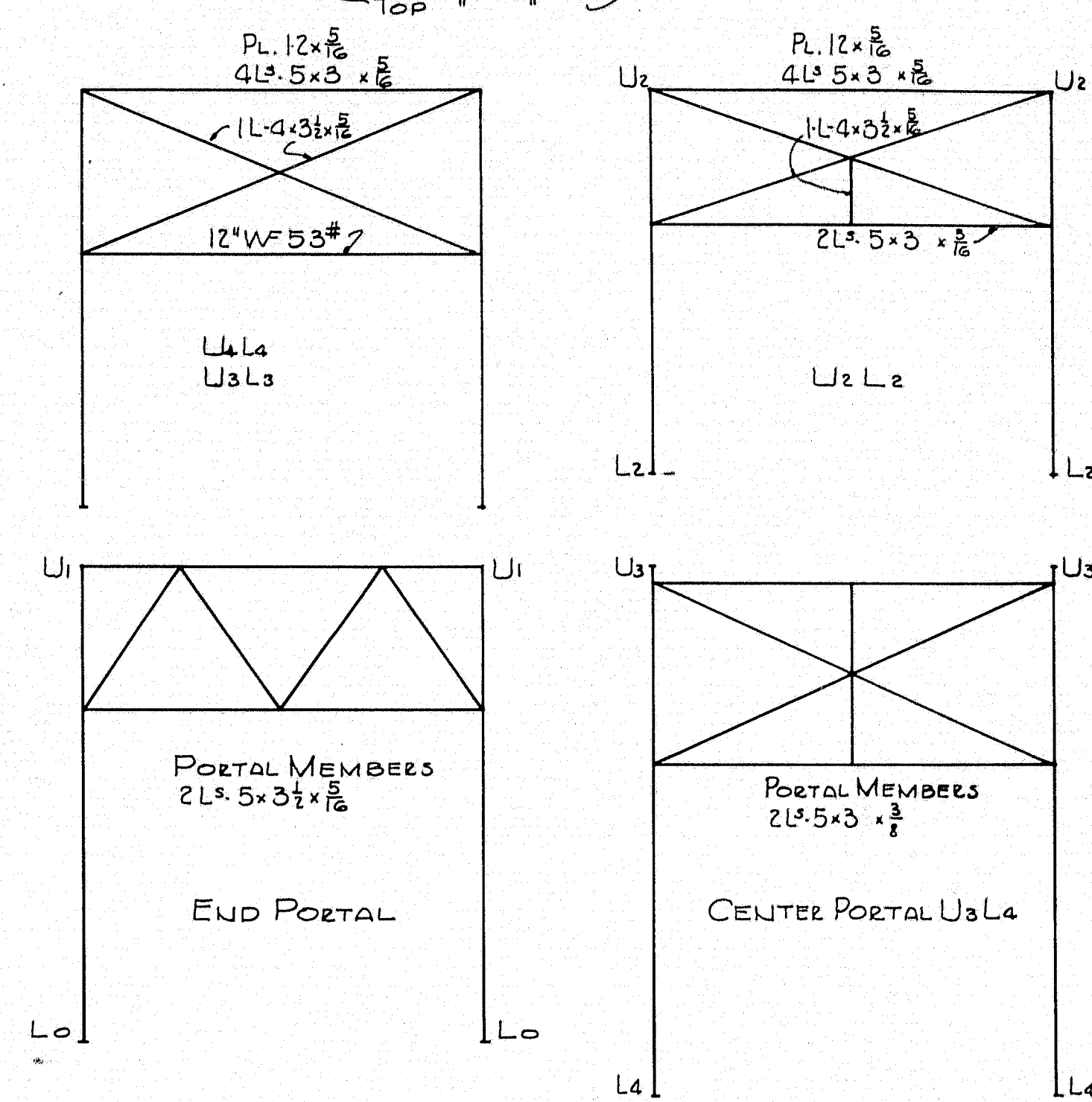
† WIND MOMENT 44,100 #, ‡ WIND MOMENT 62,600 #, ALLOWABLE UNIT STRESSES MAY BE INCREASED 25 %

GIRDER DESIGN

100'0" SPAN
GIRDER "B"
DL FLOOR: 195*
DL GDE: 225*
COUN. L.L.: 420*/L.F.
IMP: 53.3 K*
Max. D.L. SHEAR: 210 K*
U.L.L.: 14.6
COUN. L.L.: 11.8
IMP: 53.3 K*
GIRDER "A"
DL FLOOR: 100*
DL GDE: 50
COUN. L.L.: 350*/L.F.
IMP: 17.5 K*
Max. D.L. SHEAR: 17.5 K*
U.L.L.: 9.8
COUN. L.L.: 27.3 K*
GIRDER "B"
DL FLOOR: 195*
DL GDE: 225*
COUN. L.L.: 420*/L.F.
IMP: 53.3 K*
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GIRDER "A"
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COUN. L.L.: 350*/L.F.
IMP: 17.5 K*
Max. D.L. SHEAR: 17.5 K*
U.L.L.: 9.8
COUN. L.L.: 27.3 K*



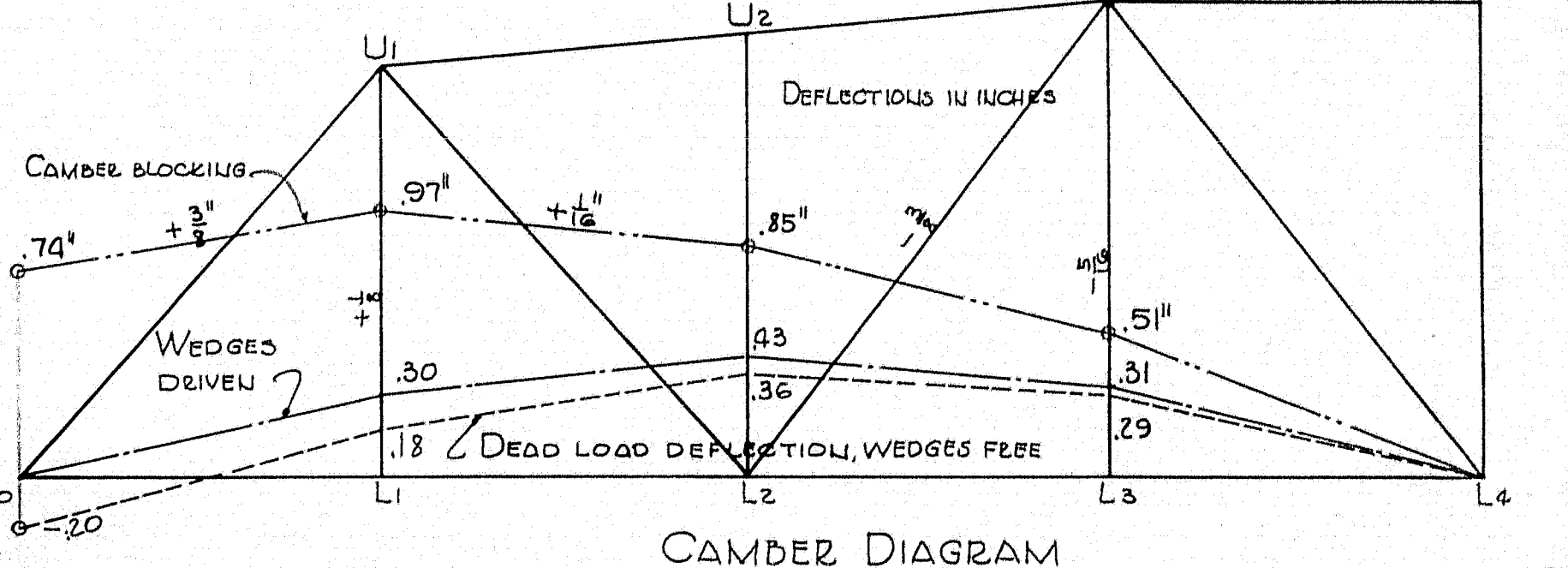
CROSS SECTION - SPANS 1 & 2



WILLIOT DIAGRAMS

MEMBER	STRESS UNIT L	LENGTH INCHES	PRODUCT	EUL	DL STRESS D	GROSS AREA A	UNIT STRESS P/A	λ = P/E	P/E	u _{rel} = u _{rel} / P/E	CAMBER = C	u _c
U1U3	+16.55	5362	+8874	+17068	+48445	1364	+2467	+0.46	+2189210	74.77836	-25	-767
U3U4	+3069	2670	+8194	+17068	+48445	1364	+2467	+0.46	+2189210	74.77836	-25	-767
LoL2	-29	5340	-1533	-17046	-13030	1464	-890	-0.16	-423017	28.89460	-25	-767
L2L4	-2302	5340	-12293	-17046	-13030	1464	-890	-0.16	-423017	28.89460	-25	-767
LoU1	+1339	4016	+5377	+17068	+48445	1364	+2467	+0.46	+2189210	74.77836	-25	-767
U1L2	-1140	4016	-4578	-17068	-48445	1364	-2467	-0.46	-2189210	74.77836	-25	-767
L2U3	+1074	4386	+4711	+17068	+48445	1364	+2467	+0.46	+2189210	74.77836	-25	-767
U3L4	-1260	4386	-5526	-17068	-48445	1364	-2467	-0.46	-2189210	74.77836	-25	-767
L1U1	0	0	0	0	0	0	0	0	0	0	0	0
L3U3	0	0	0	0	0	0	0	0	0	0	0	0

DEAD LOAD DEFLECTION ΔL₀ = 26745050
DEFLECTION ΔL₀ DUE TO DIFFERENCE IN TEMP OF WEB AND TOP CHORD
ABOVE THAT OF BOTTOM CHORD OF 20° = 0.000065 × 20 (1706.8 - 1.6) = 2.21"
DEFLECTION ΔL₀ PER 1000 LBS. ΔL₀ = 1000 × 555.56903 = 0.192
UPWARD DEFLECTION ΔL₀ DUE TO UPLIFT
ΔL₀ OF 8800 LBS. = 88 × 0.192 = 1.69



DESIGN - H-15 LOADING
SPECIFICATIONS: MAINE STATE HIGHWAY COMMISSION SPECIFICATIONS
FOR STEEL HIGHWAY BRIDGES 1937.
STANDARD SPECIFICATIONS FOR MOVABLE
HIGHWAY BRIDGES A.A. S.H.O. 1938.

- CASE I: DEAD LOAD, BRIDGE OPEN OR CLOSED WITH NO END REACTIONS.
- CASE II: DEAD LOAD, BRIDGE CLOSED WITH ITS ENDS LIFTED TO CAUSE POSITIVE END REACTIONS EQUAL TO 1 1/2 TIMES THE MAXIMUM LIVE LOAD NEGATIVE REACTION WITHOUT IMPACT.
- CASE III: LIVE LOAD, BRIDGE CLOSED WITH ONE ARM LOADED AND CONSIDERED AS A SIMPLE SPAN BUT WITH NO DEAD LOAD TRUSS REACTIONS.
- CASE IV: LIVE LOAD, BRIDGE CLOSED AND CONSIDERED AS A CONTINUOUS GIRDER.
- CASE V: LIVE LOAD, BRIDGE CLOSED AND CONSIDERED AS A CONTINUOUS GIRDER WITH THE LOAD PLACED SO AS NOT TO CAUSE NEGATIVE REACTIONS.

R.W.A. PROJECT NO. MAINE 1120-F
DESIGN C.L.P. DETAIL SHEET TOWN 08-15
TRACE 1.2 CHECK 1.2
BRIDGE 2189
STATE HIGHWAY COMMISSION
BRIDGE DIVISION
SOUTHPORT BRIDGE
OVER
TOWNSEND GUT
BETWEEN THE TOWNS OF
SOUTHPORT & BOOTHBAY HARBOR
LINCOLN COUNTY
STRESS SHEET
SHEET 11 OF 19 SHEETS AUGUSTA ME. OCT. 1938

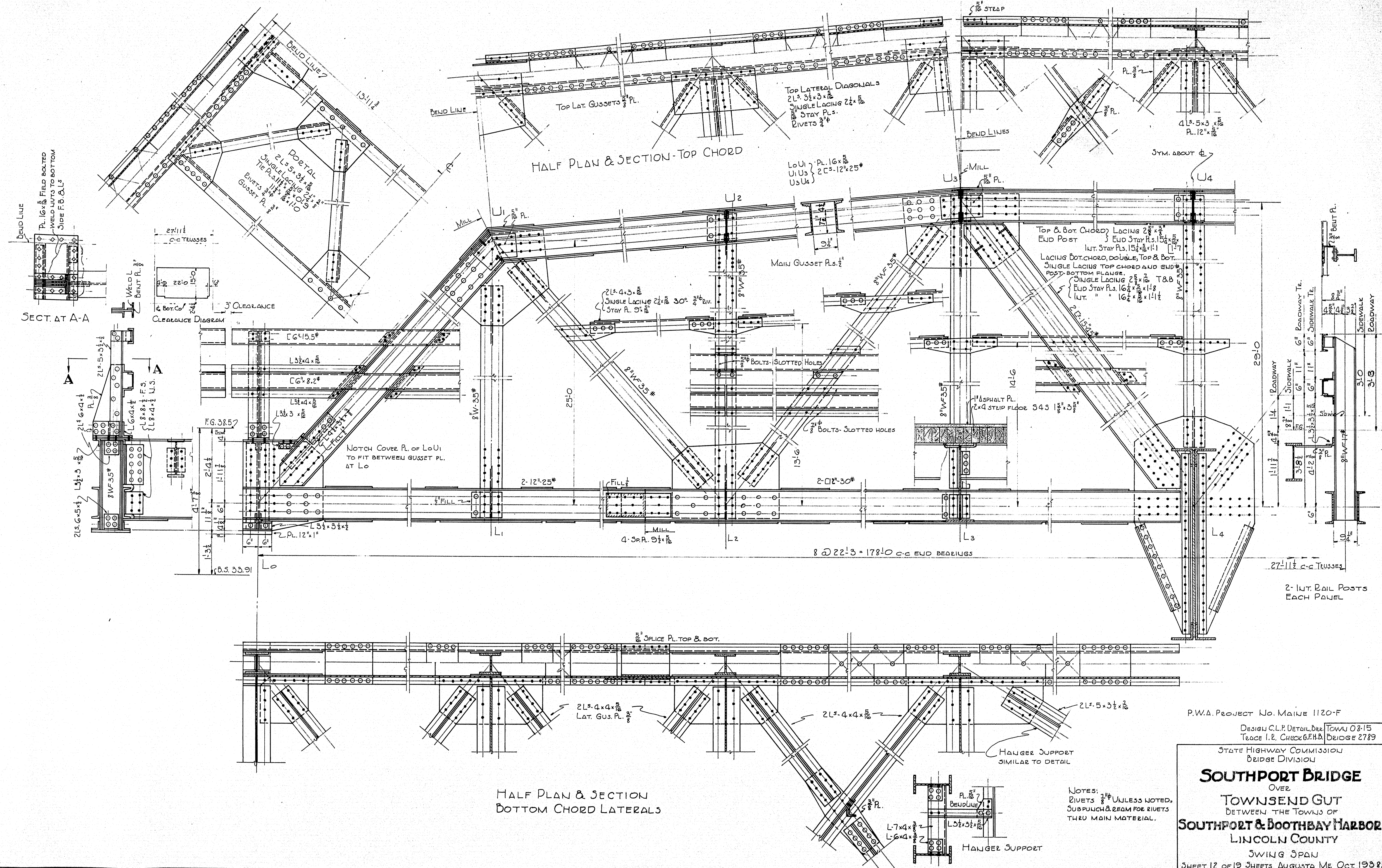
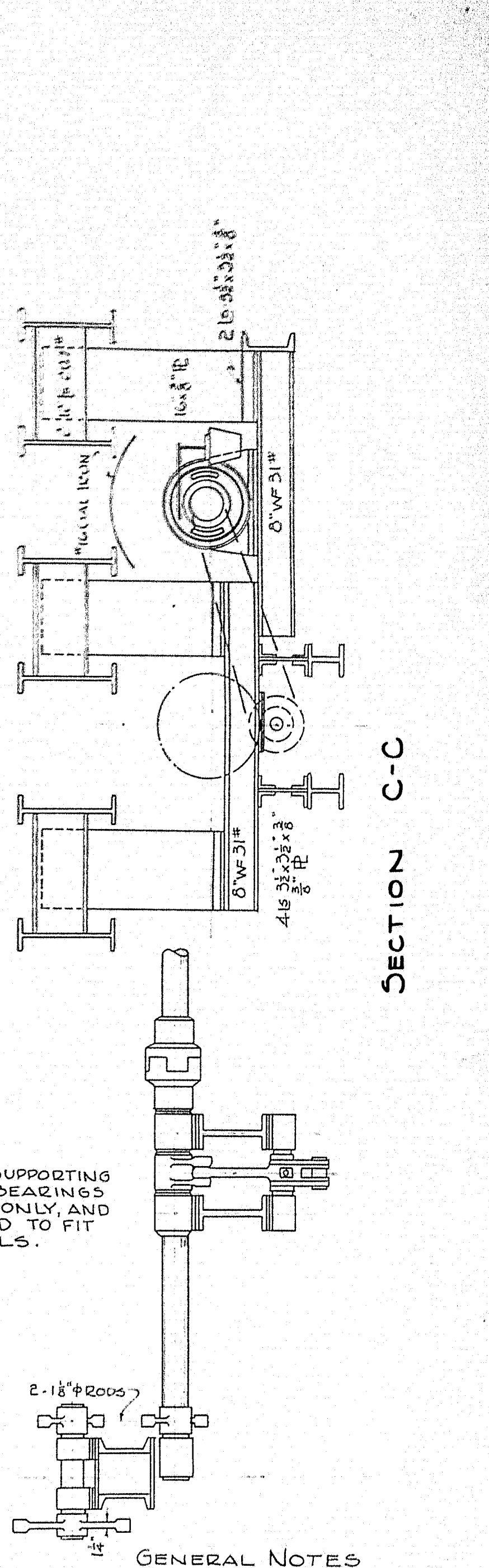
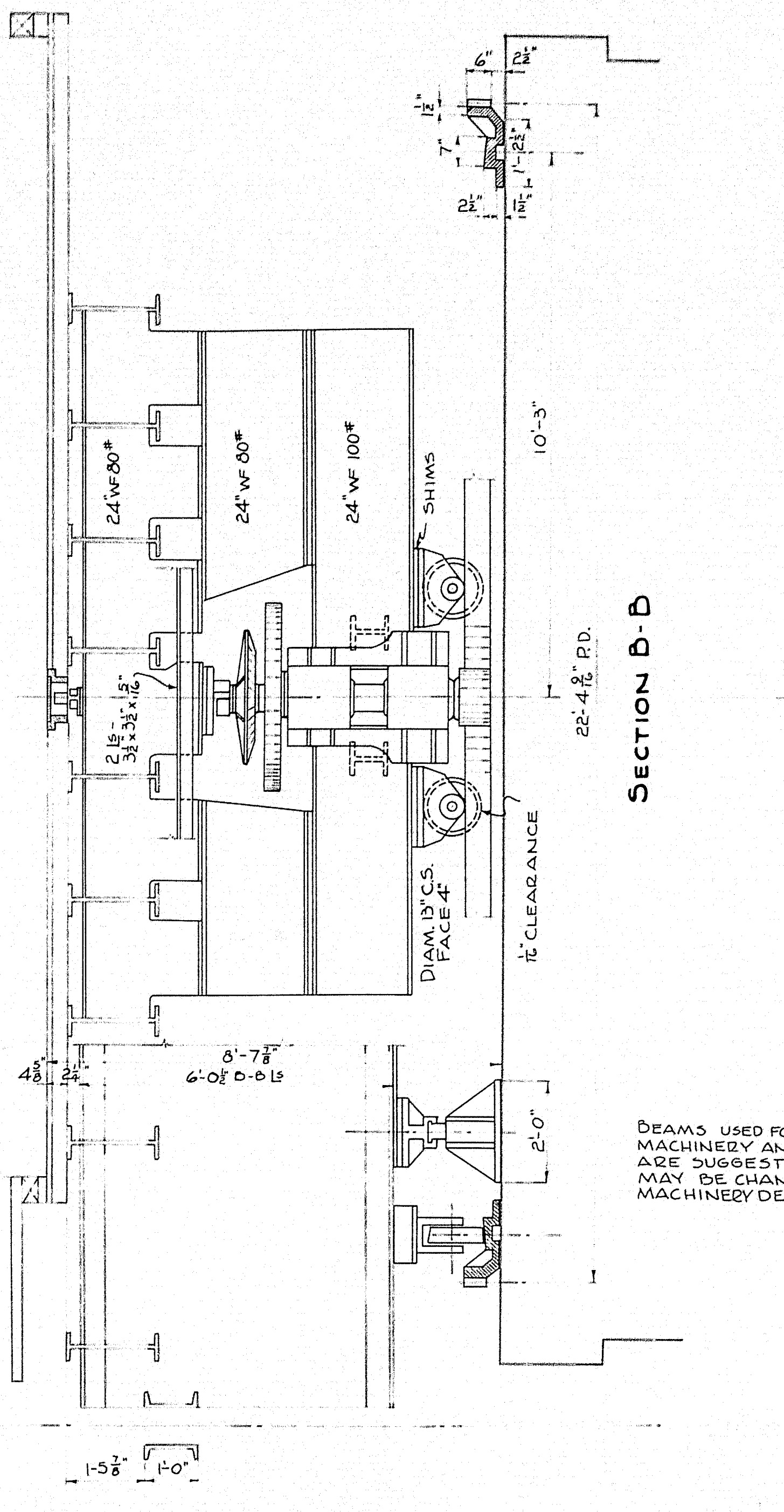
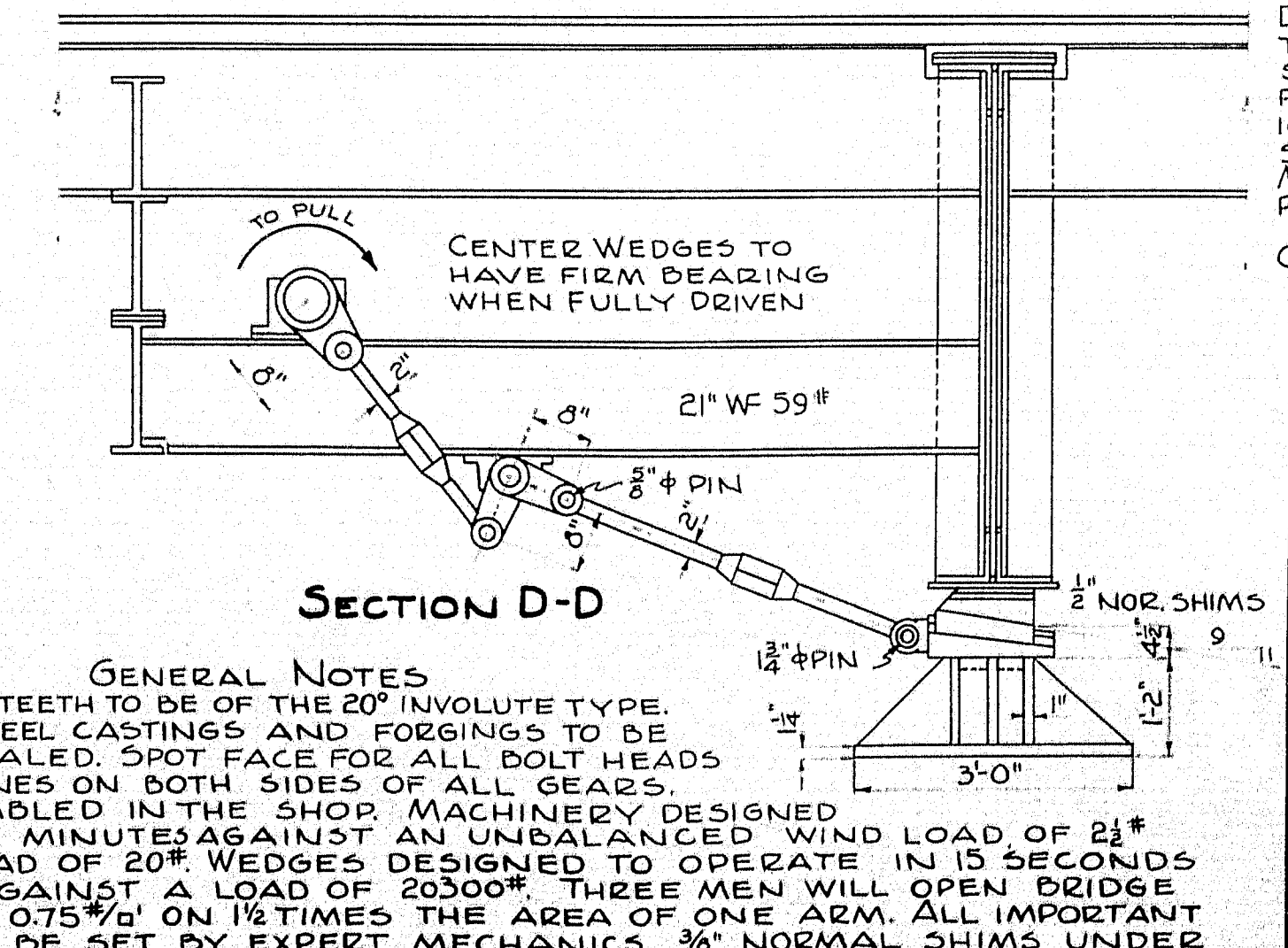
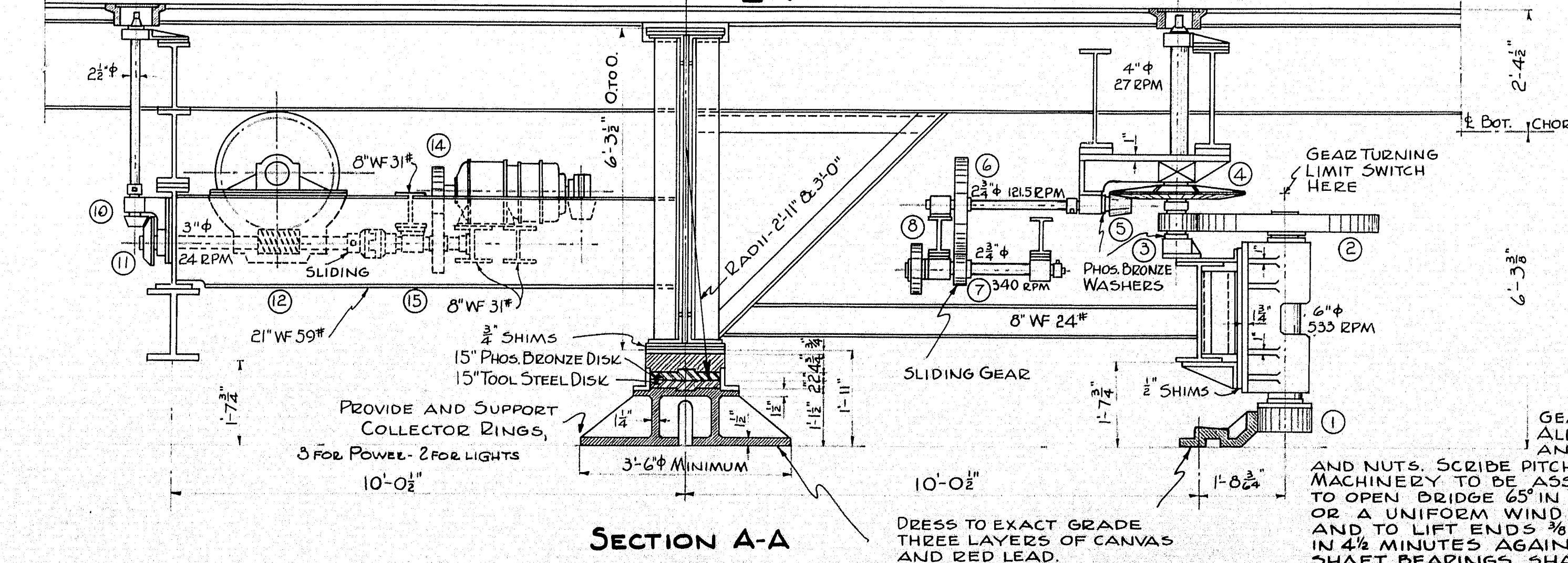
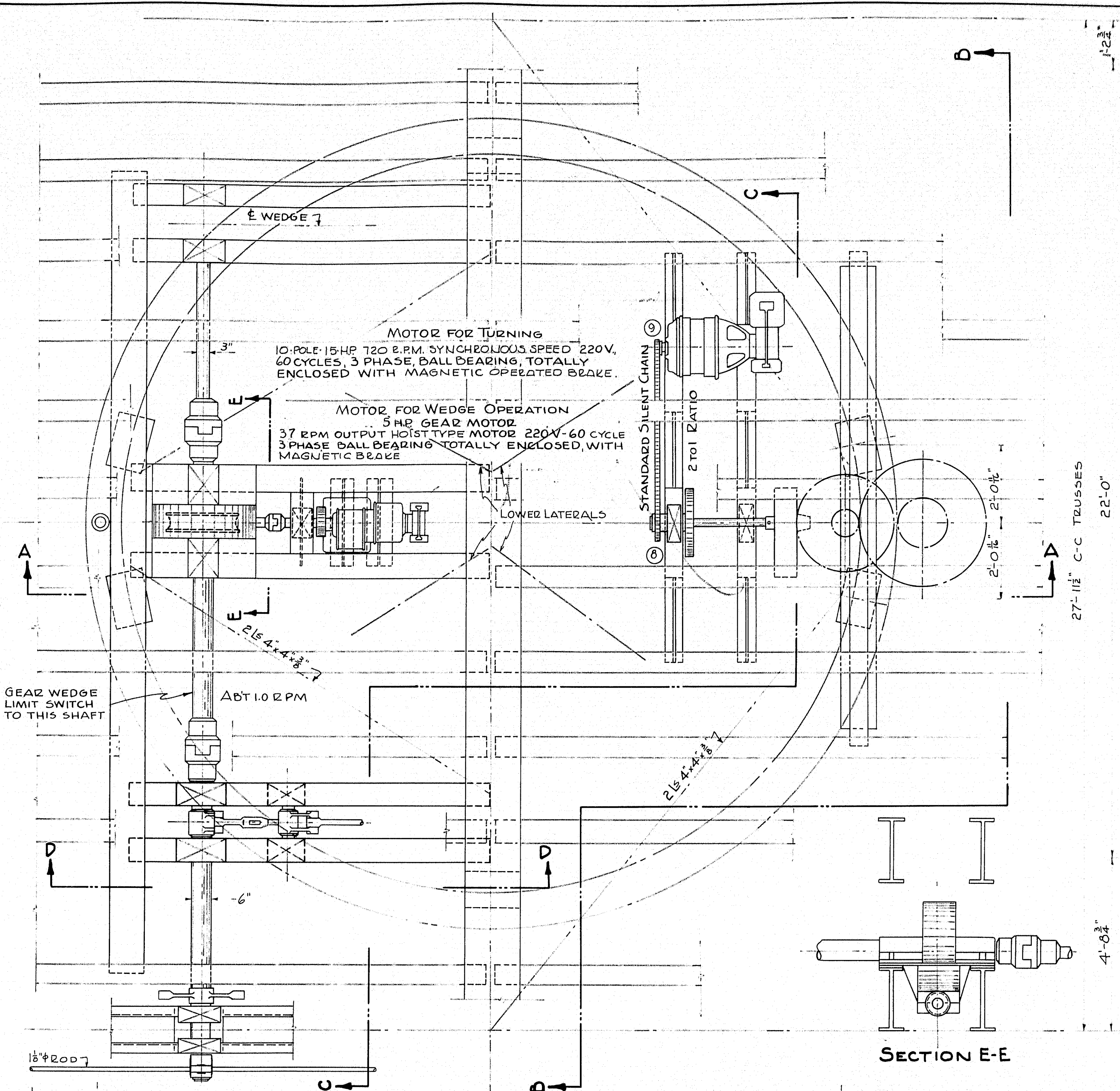


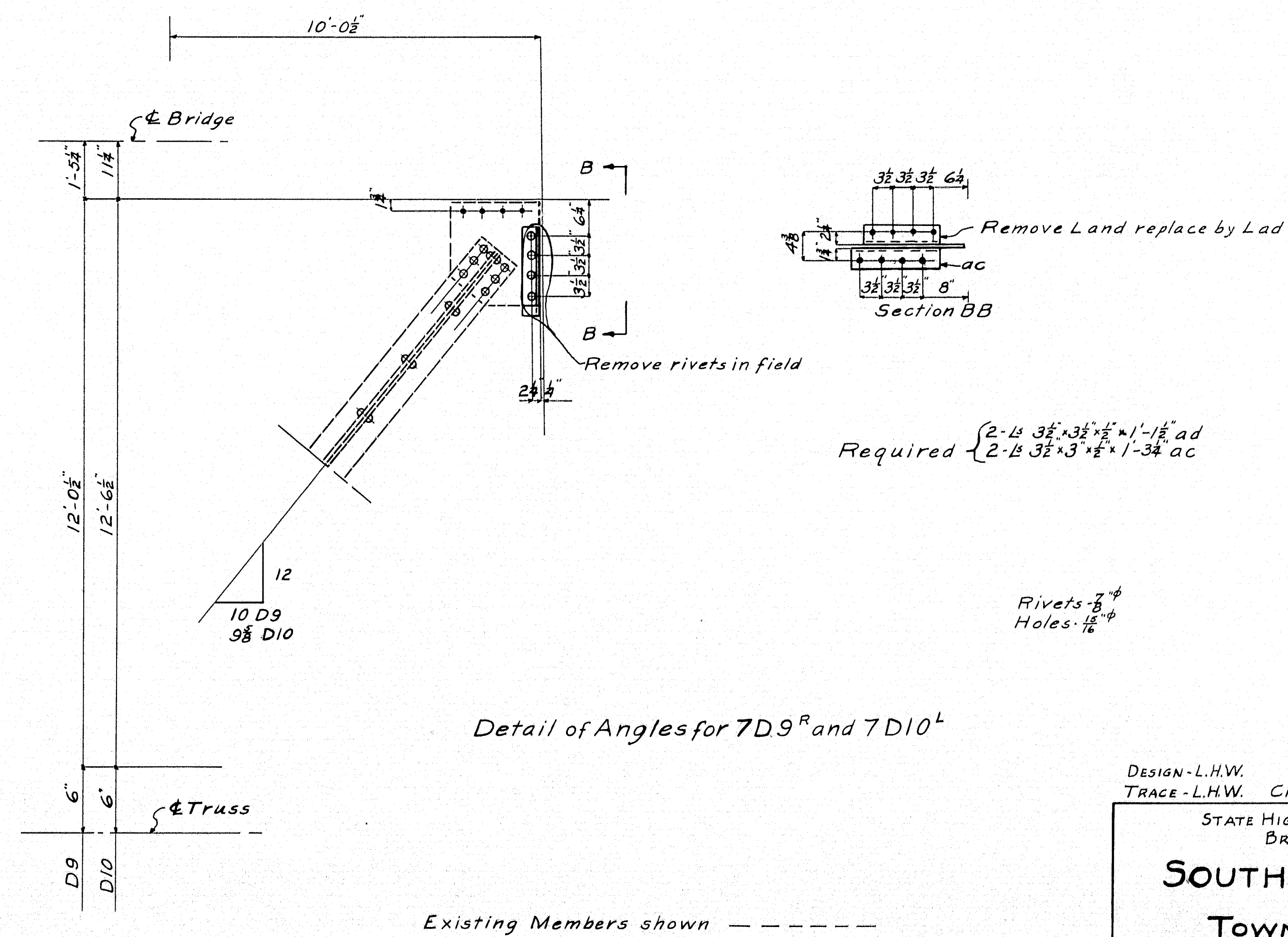
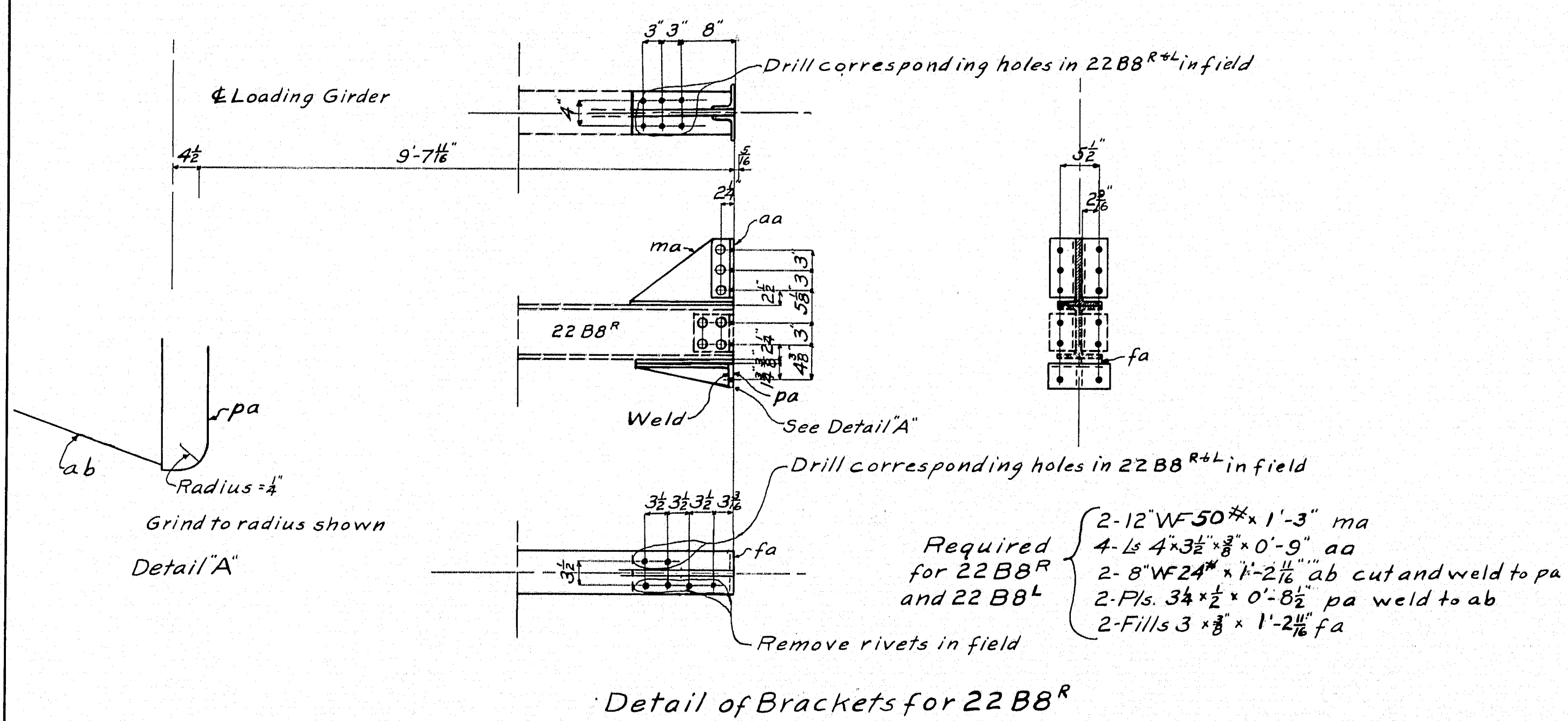
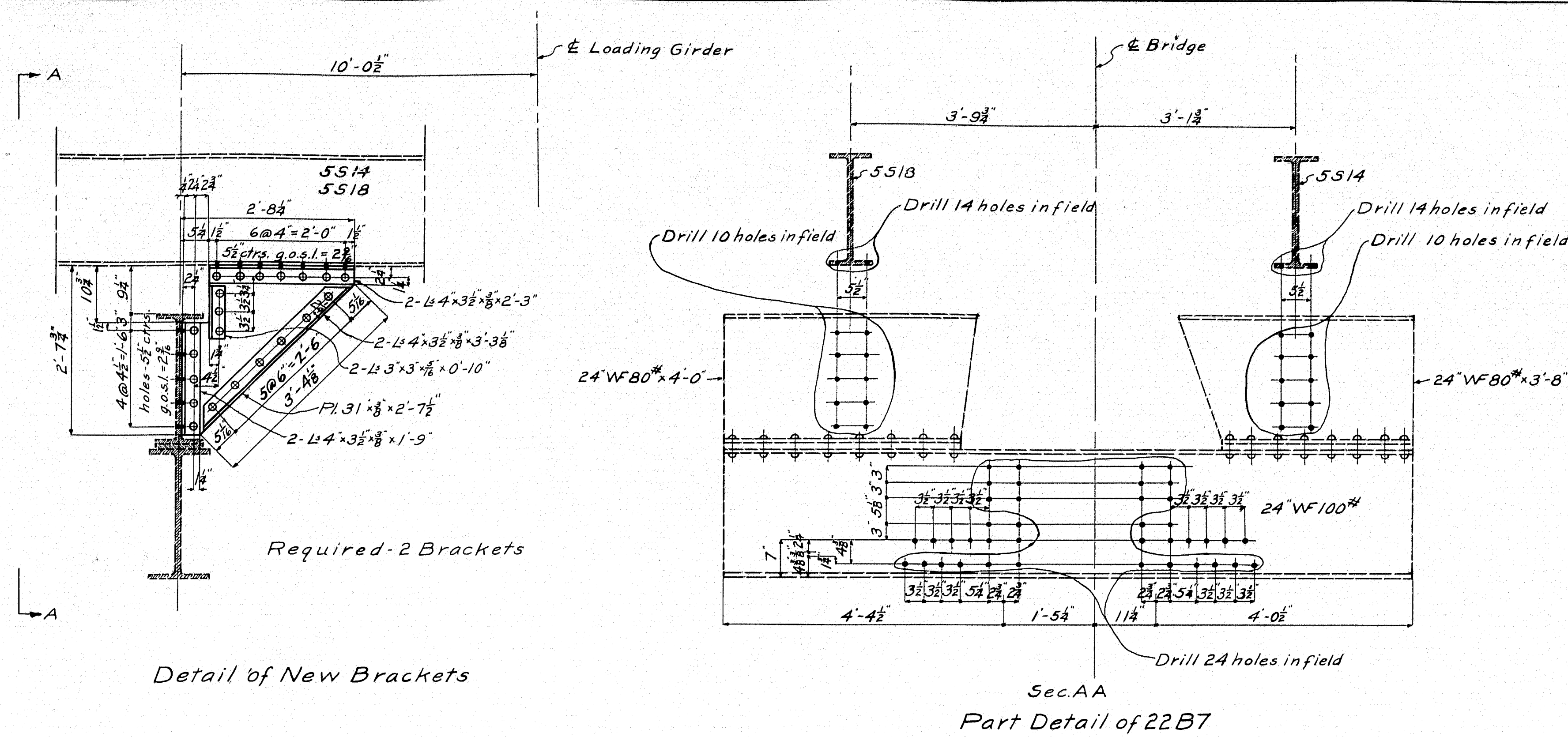
TABLE OF GEARS ALL 20° INVOLUTE									
GEAR	C.P.	D.P.	FACE	NOTES	PITCH	MATL.	REMARKS		
RACK	2 1/2"	6"	300	22 1/4"	C.S.				
①	2 1/2"	6"	14	12 1/2"	C.S.				
②	1 3/4"	4"	76	42 1/2"	C.S.				
③	1 3/4"	4"	15	8 1/2"	C.S.				
④	2"	4"	63	31 1/2"	C.S.	BEVEL			
⑤	2"	4"	14	7"	C.S.	BEVEL			
⑥	2 1/2"	3"	56	22 1/2"	C.S.	CUT TEETH			
⑦	2 1/2"	3"	20	8"	F.S.	CUT TEETH			
⑧			⑧ ⑨	RATIO 2 TO 1		SPROCKETS			
⑩	2 1/2"	3"	16	6 1/2"	C.S.	BEVEL			
⑪	2 1/2"	3"	32	12 1/2"	C.S.	BEVEL			
⑫	3 1/4"	X		8"	F.S.	CUT TEETH			
⑬	3 1/4"		24	24 7/8"	C.I.	CUT TEETH			
⑭	2 1/2"	3"	24	9 1/2"	C.S.	WORM			
⑮	2 1/2"	3"	36	14 1/2"	C.S.	WORM WHEEL			

X-LEAD - SINGLE LEAD



GENERAL NOTES
 DETAILS SHOWN ARE SUGGESTIVE OF THOSE TO BE USED IN THE PREPARATION OF THE SHOP DETAIL PLANS. ALL DETAILS TO BE PREPARED IN ACCORDANCE WITH SPECIFICATIONS NOTED ON THIS SHEET AND THE SPECIAL SPECIFICATIONS FOR THIS BRIDGE. MACHINERY TO BE DETAILED FOR MOTIVE POWER SHOWN WITH 100% OVERLOAD.
 CONNECTIONS NOT SHOWN ARE STANDARD.

P.W.A. PROJECT NO. MAINE 1120-F
 DESIGN BULK TOWN 08-15
 TRACE DD CHECK G.F.H.B. BRIDGE 2789
 STATE HIGHWAY COMMISSION
 BRIDGE DIVISION
SOUTHPORT BRIDGE
 OVER
TOWNSEND GUT
 BETWEEN THE TOWNS OF
SOUTHPORT & BOOTHBAY HARBOR
LINCOLN COUNTY
 MACHINERY DETAILS
 SHEET 14 OF 19 SHEETS AUGUSTA ME. OCT 1938

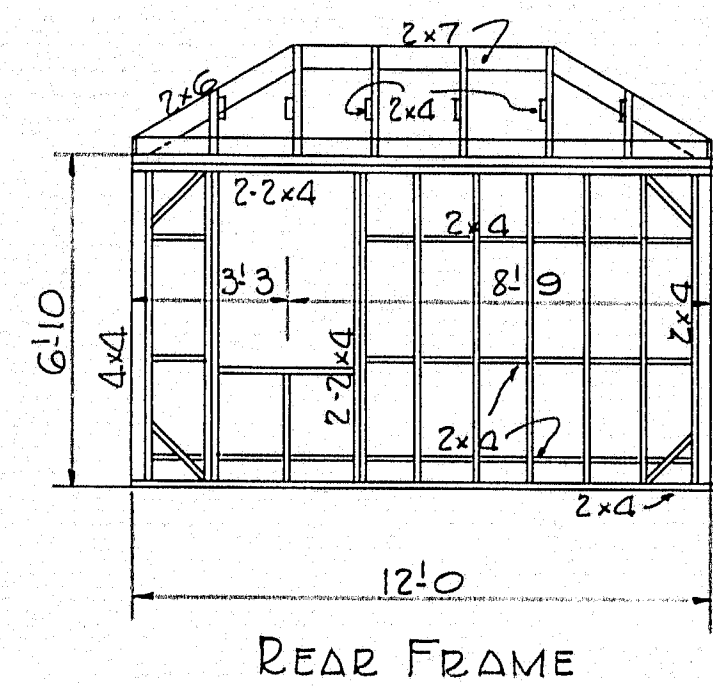
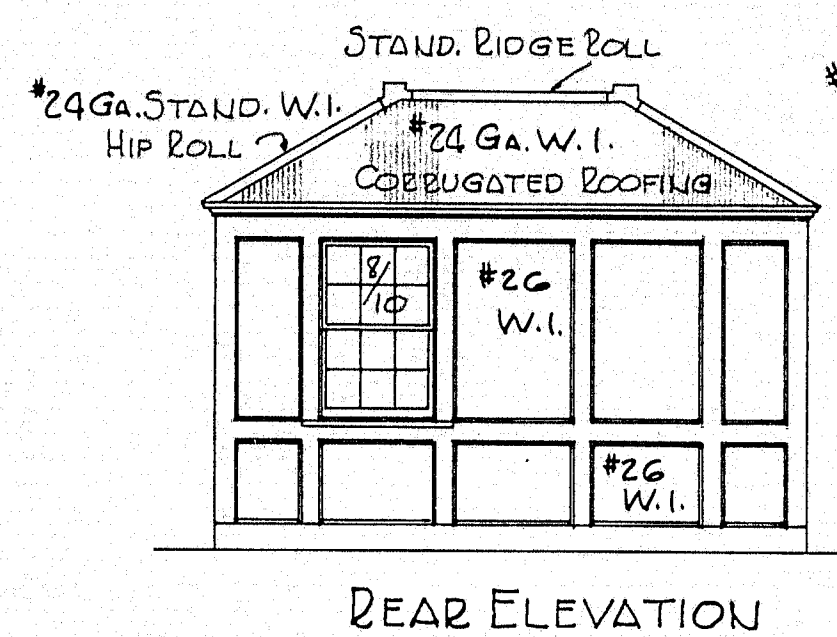
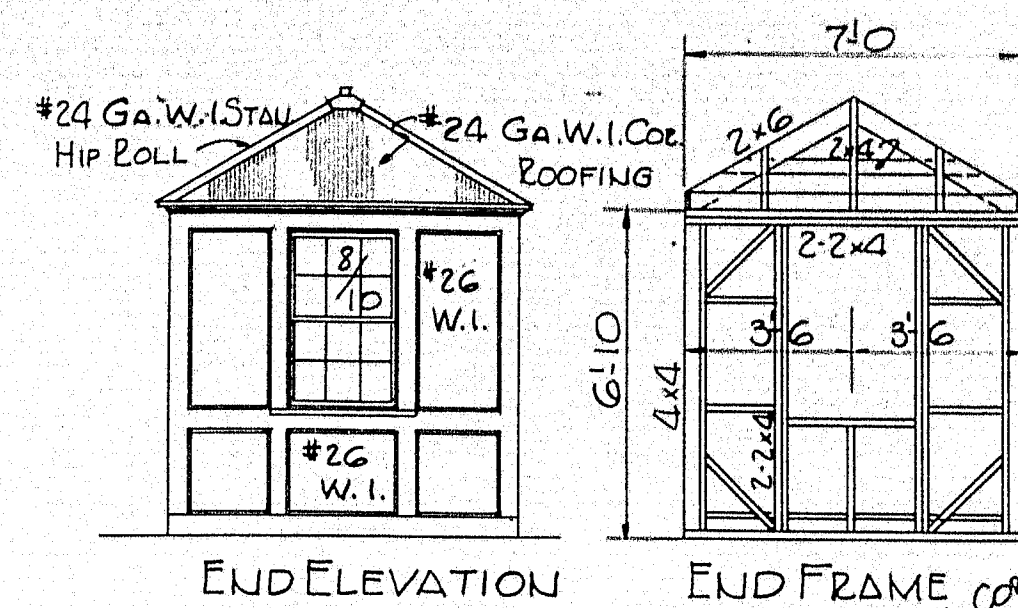
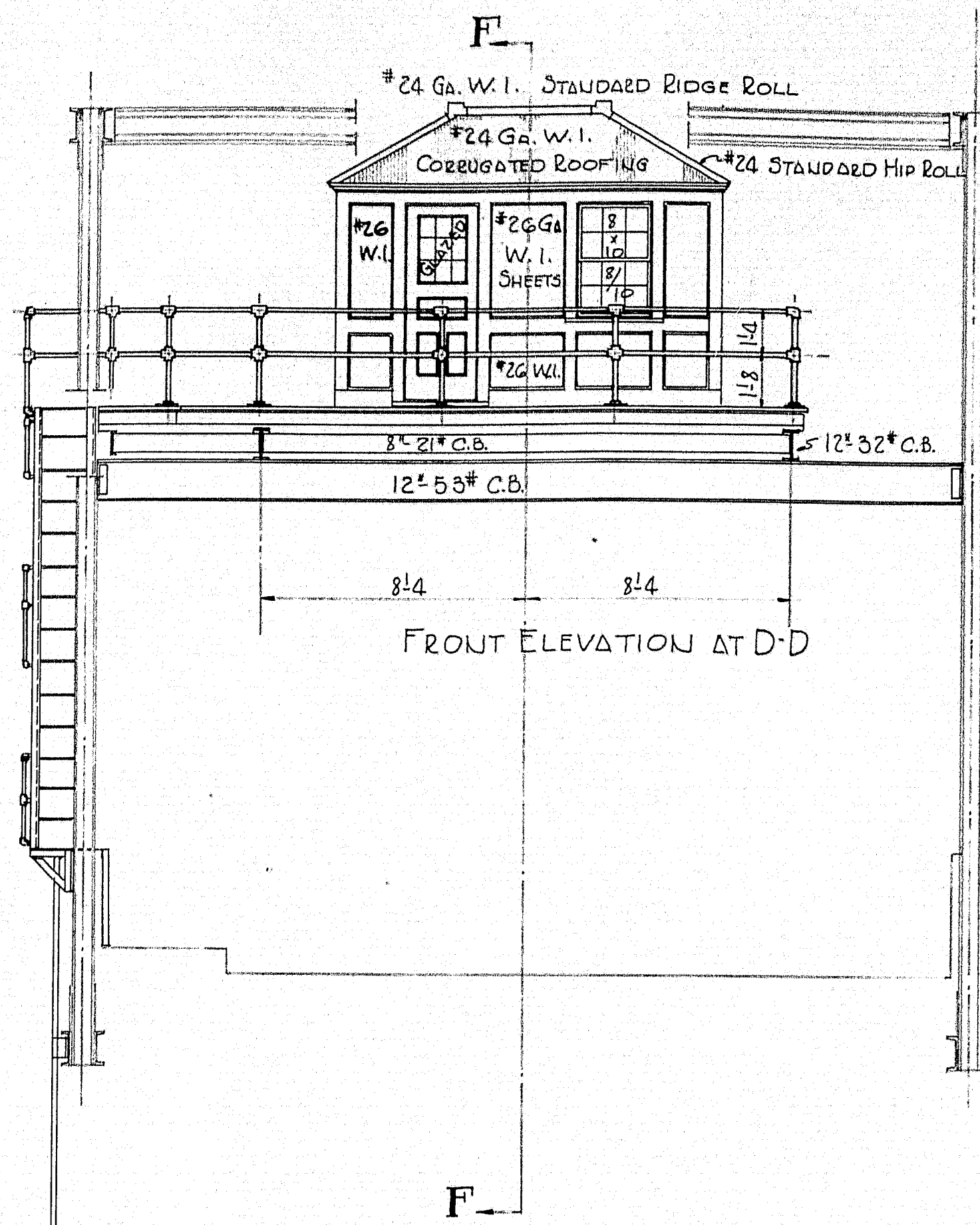


DESIGN - L.H.W.
TRACE - L.H.W. CHECK *20m* TOWN 08-15
BRIDGE 2789

STATE HIGHWAY COMMISSION
BRIDGE DIVISION

SOUTHPORT BRIDGE
OVER
TOWNSEND GUT
BETWEEN THE TOWNS OF
SOUTHPORT & BOOTHBAY HARBOR
LINCOLN COUNTY

ALTERATIONS AND ADDITIONS TO MACHINERY SUPPORT BEAMS
Sheet 14 A of 19 AUGUSTA, ME. AUG 1939



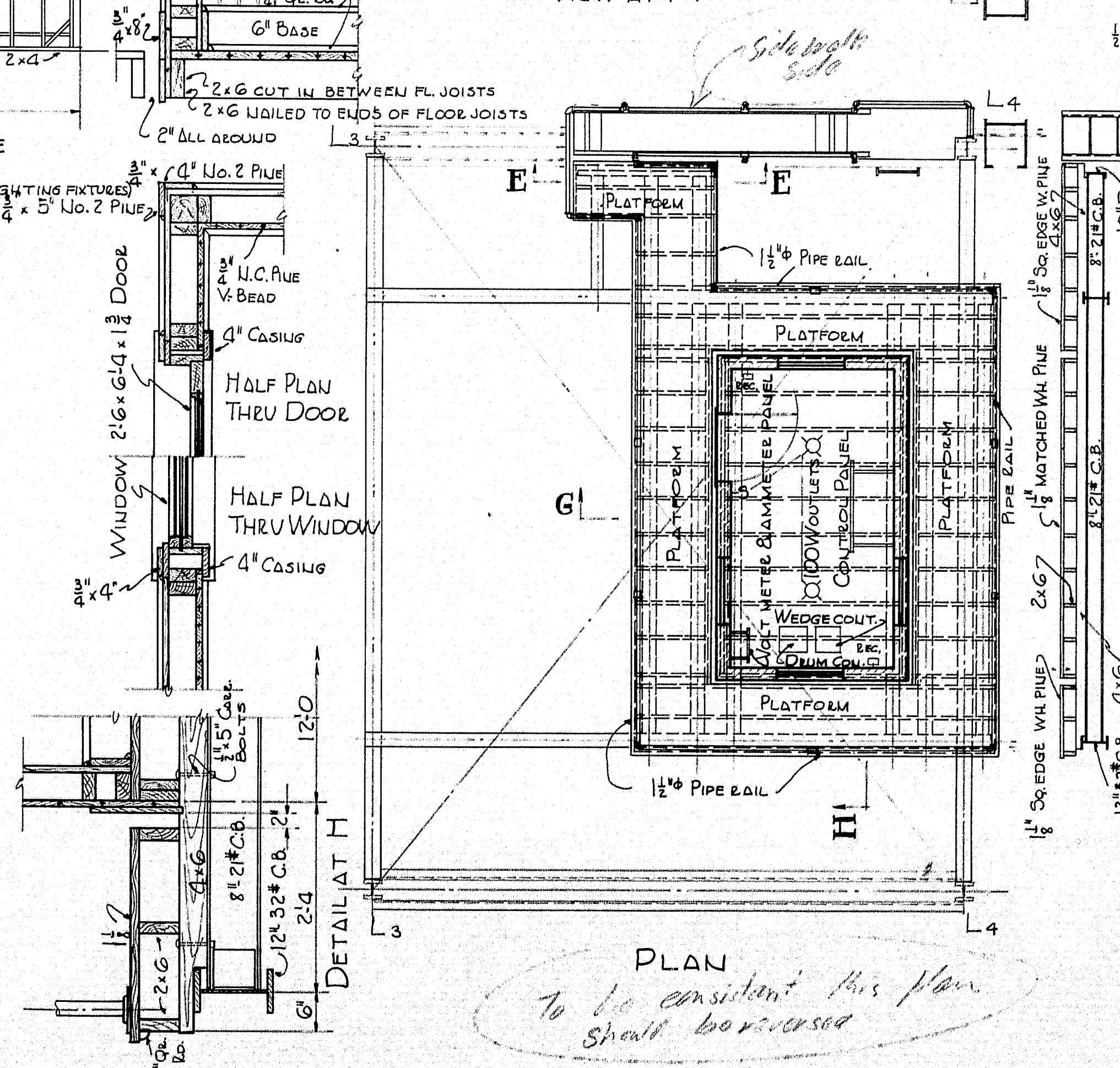
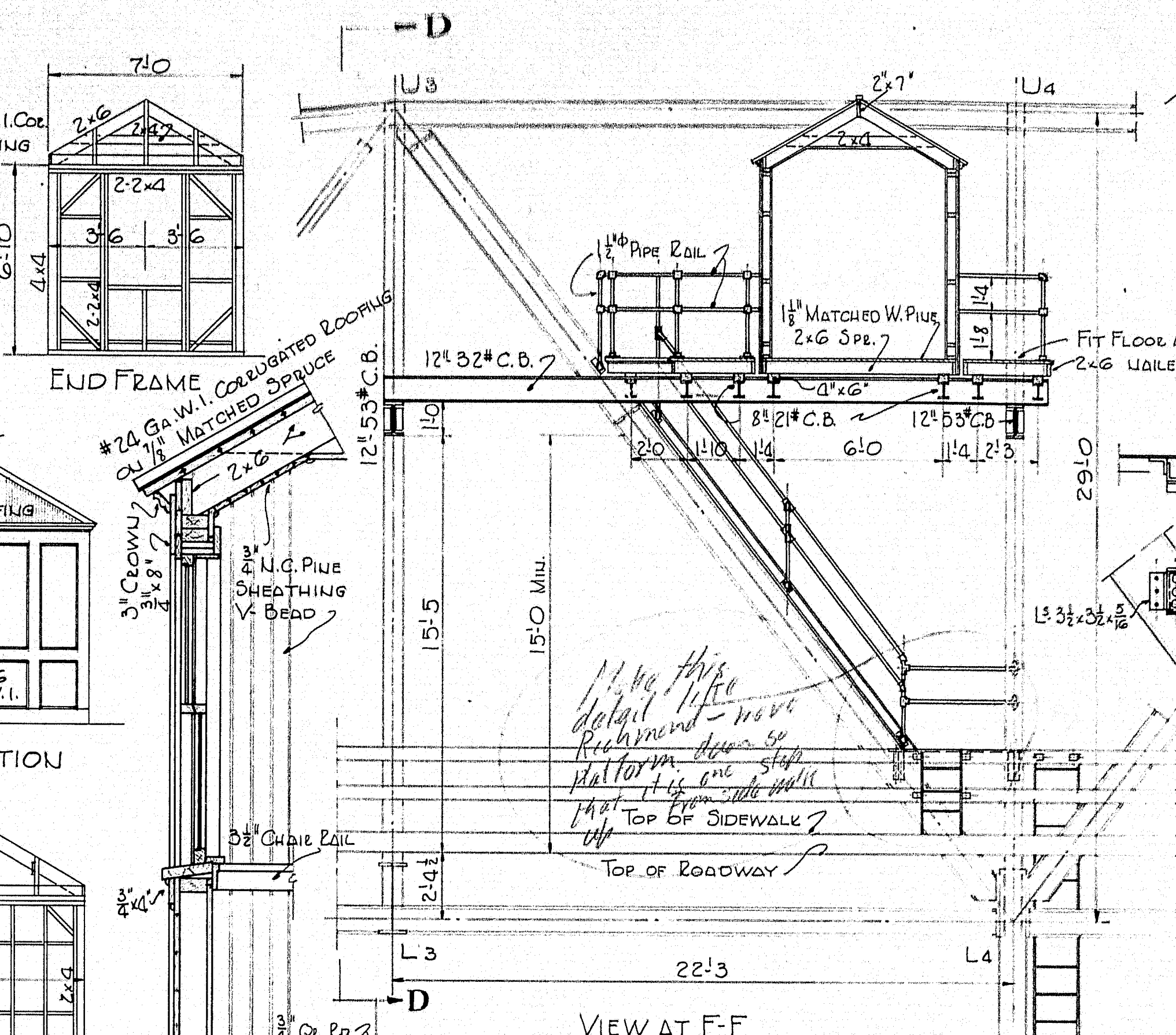
NAILING PCS. - PLATFORM AND BUILDING COMPLETE (EXCEPT ELECTRICAL EQUIPMENT, HOUSE WIRING AND LIGHTING FIXTURES) TO BE PAID FOR IN LUMP SUM PRICE. SUPPORTING I BEAMS, STAIRS, PIPE RAIL, PL. PLATFORM, BRACKETS AND LADDERS TO BE PAID FOR AS STRUCTURAL STEEL.

HOUSE WIRING AND LIGHTING FIXTURES COMPLETE TO BE INCLUDED IN LUMP SUM PRICE FOR ELECTRICAL EQUIPMENT - CONTRACT - Z.

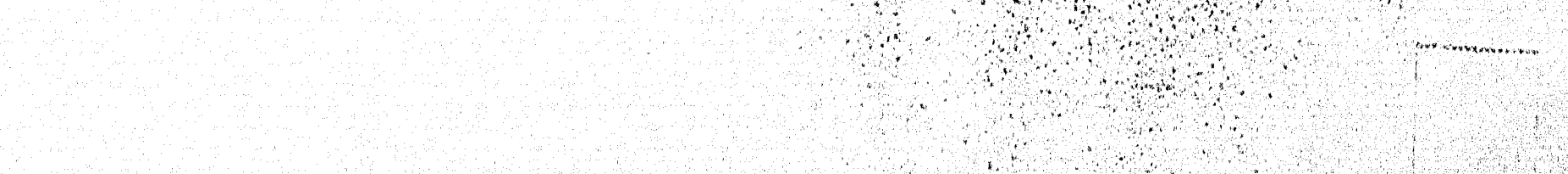
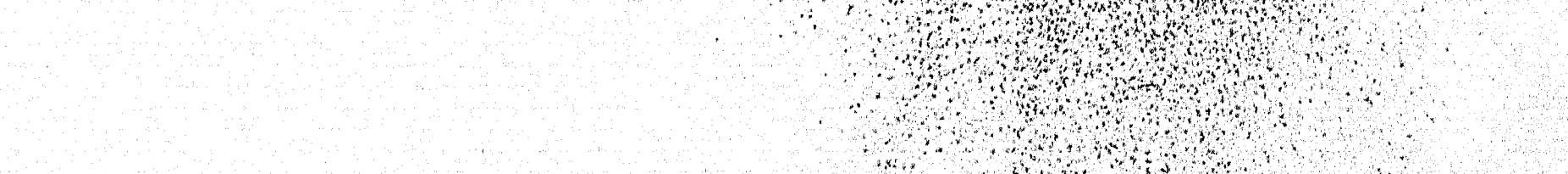
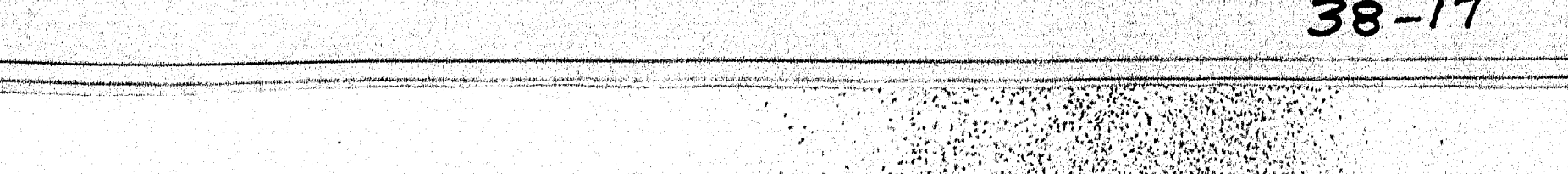
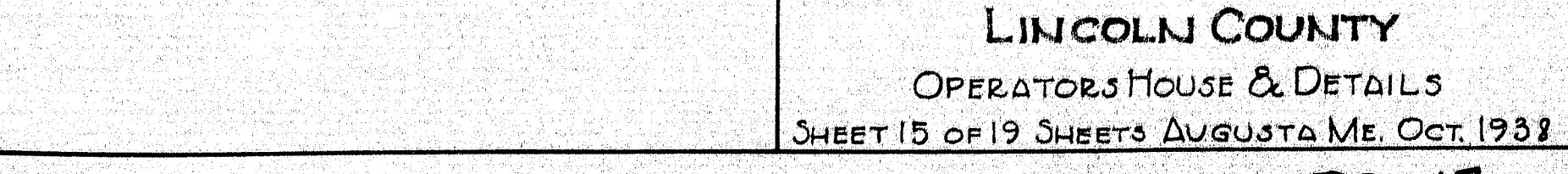
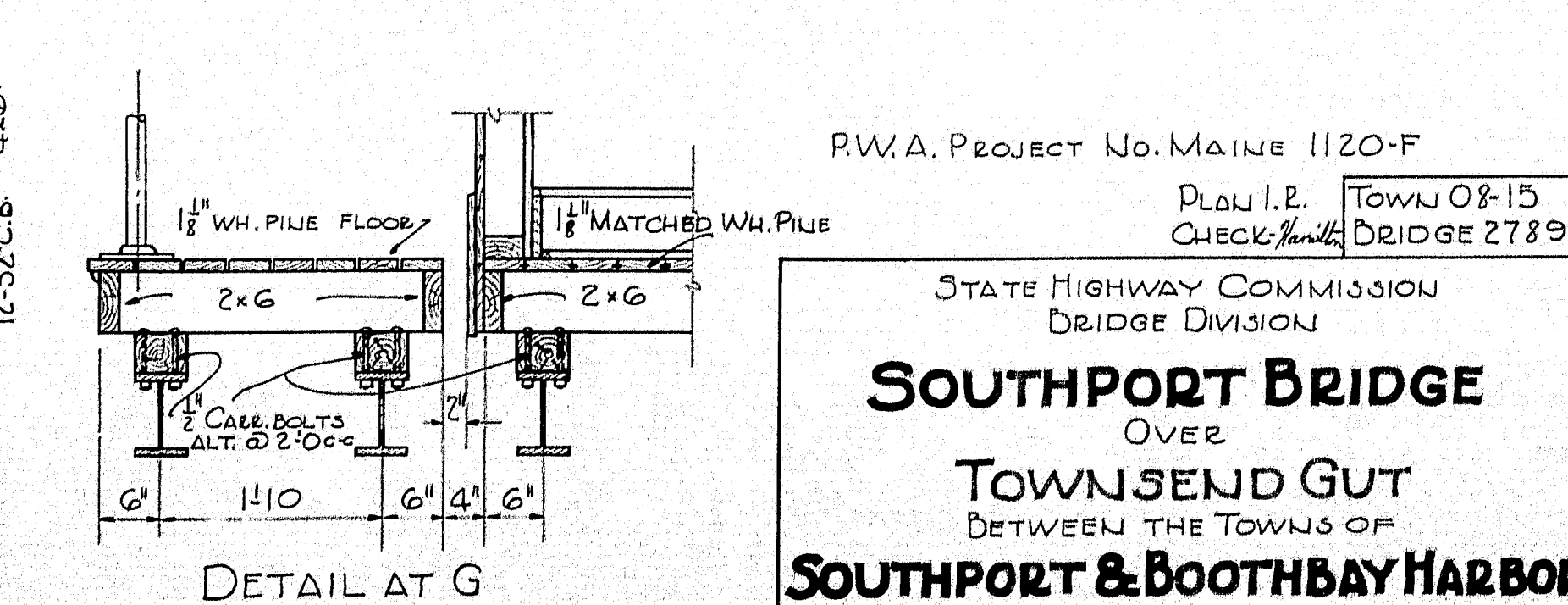
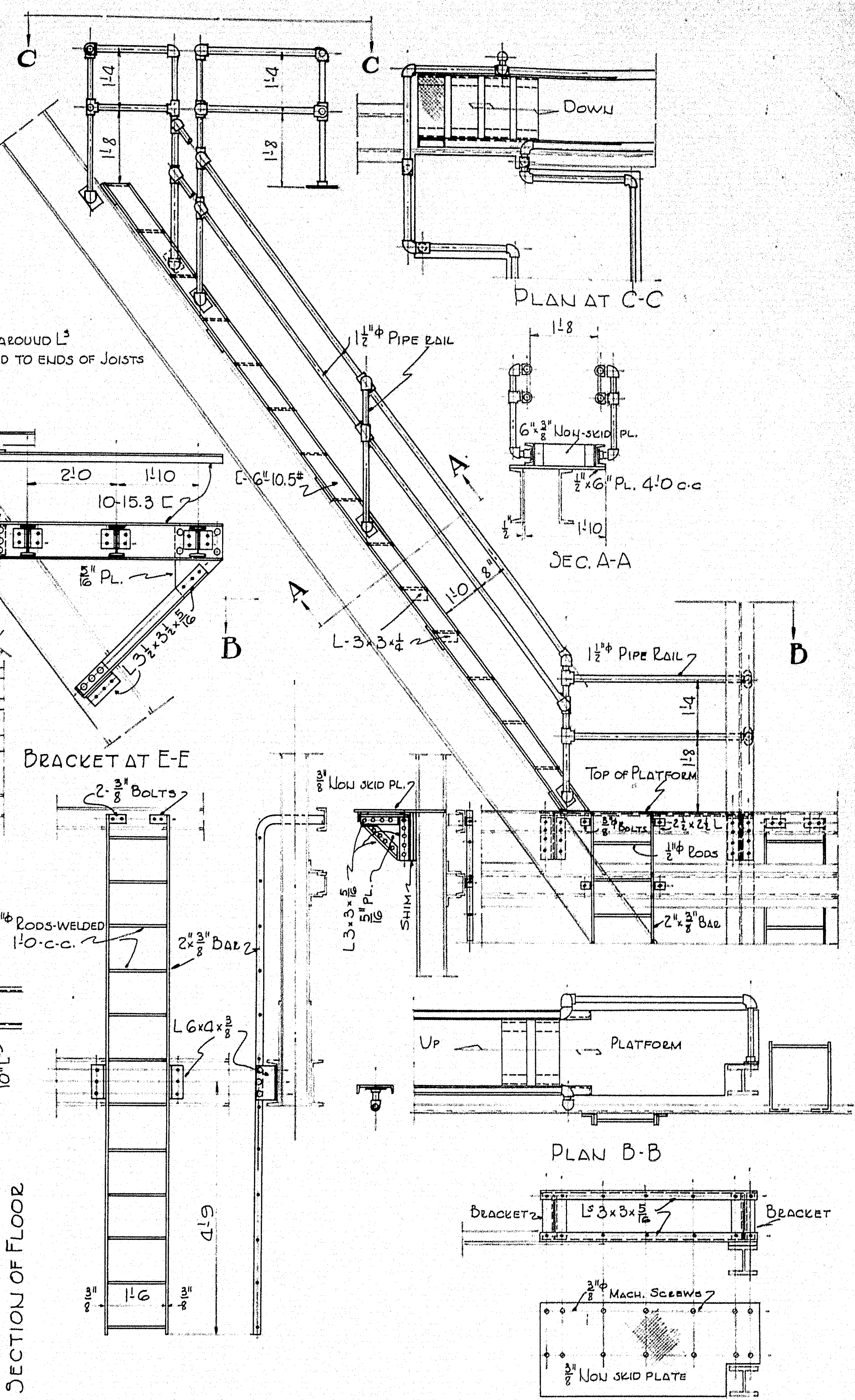
PIPE RAIL & FITTINGS TO BE GENUINE WROUGHT IRON.

W. 1/2" No. 2 PIPE
4" x 5" No. 2 PIPE

Watch for some inconsistency in sections



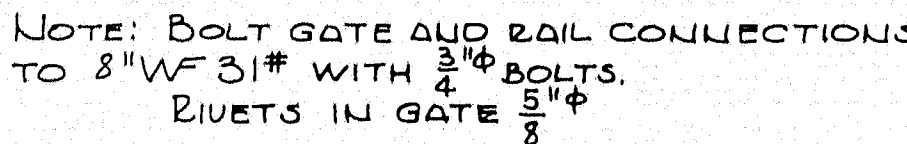
To be consistent this plan shall be reversed



R.W.A. PROJECT NO. MAINE 1120-F
PLAN 1.2. TOWN 08-15
CHECKED BY: [Signature] BRIDGE 2789

STATE HIGHWAY COMMISSION
BRIDGE DIVISION

SOUTHPORT BRIDGE
OVER
TOWN SEND GUT
BETWEEN THE TOWNS OF
SOUTHPORT & BOOTHBAY HARBOR
LINCOLN COUNTY
OPERATORS HOUSE & DETAILS
SHEET 15 OF 19 SHEETS AUGUSTA ME. OCT. 1938



P.W.A. PROJECT NO. MAINE 1120-F

DESIGN E.B. TRACE I.R.	TOWN 08-15
CHECK <i>Bak</i>	BRIDGE 2789

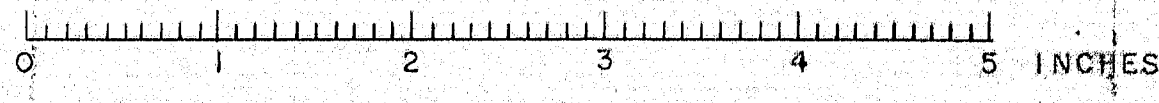
STATE HIGHWAY COMMISSION
BRIDGE DIVISION

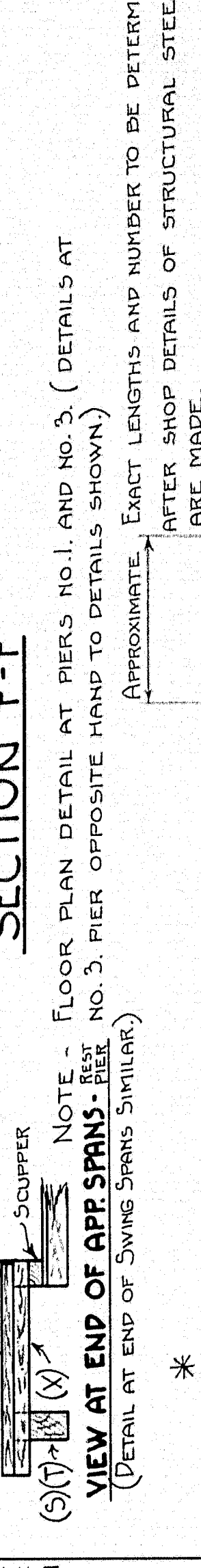
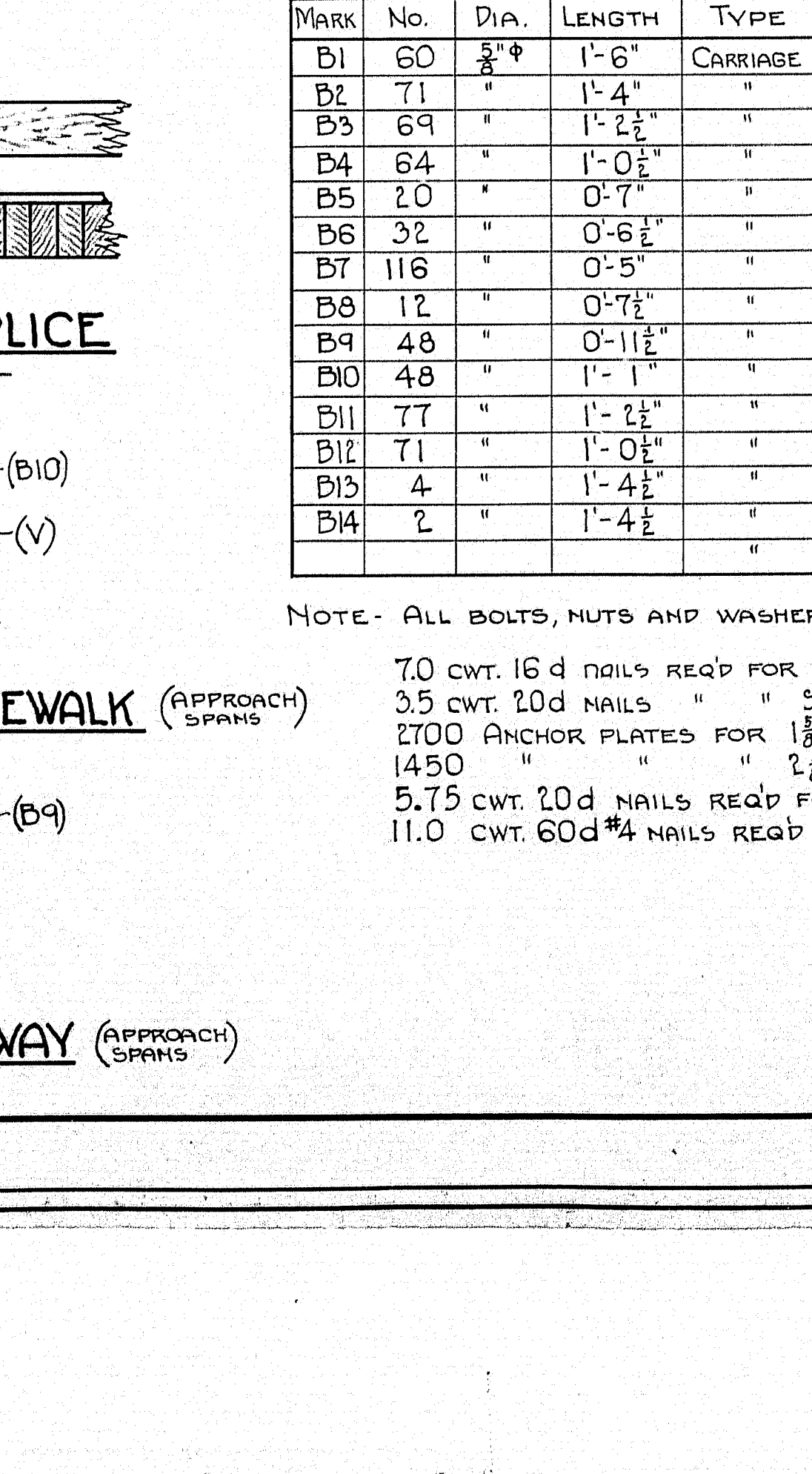
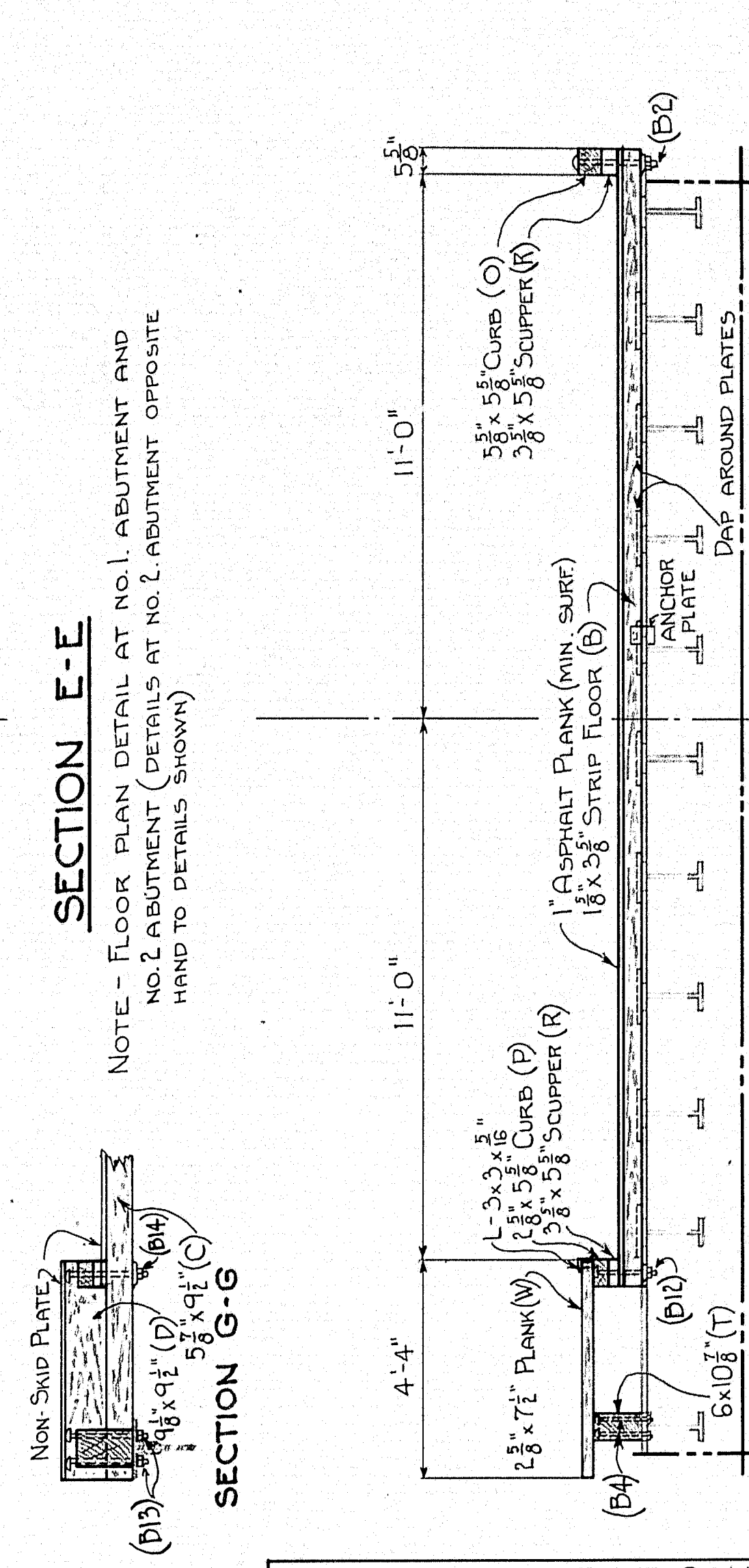
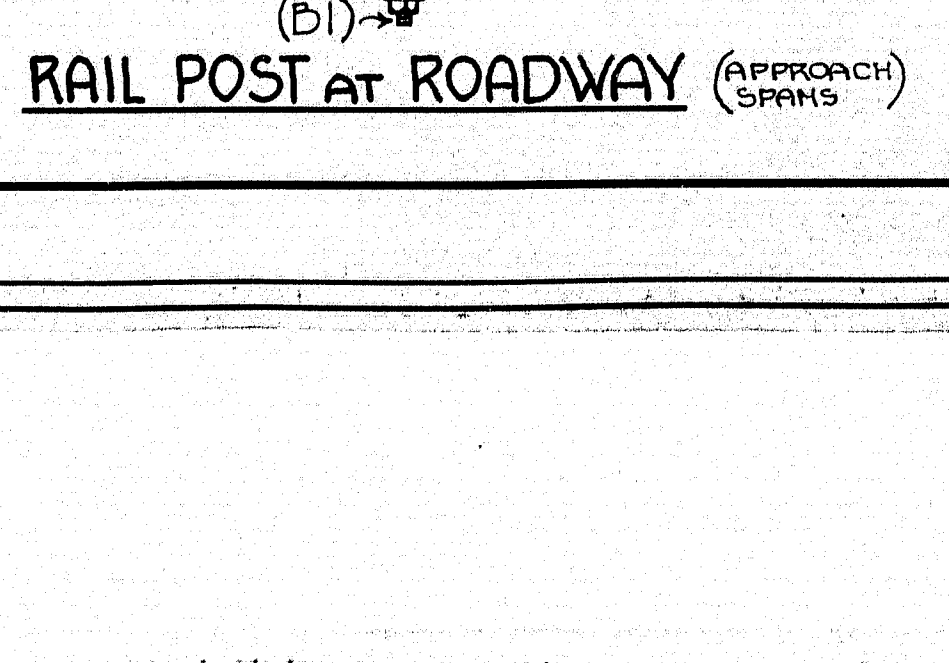
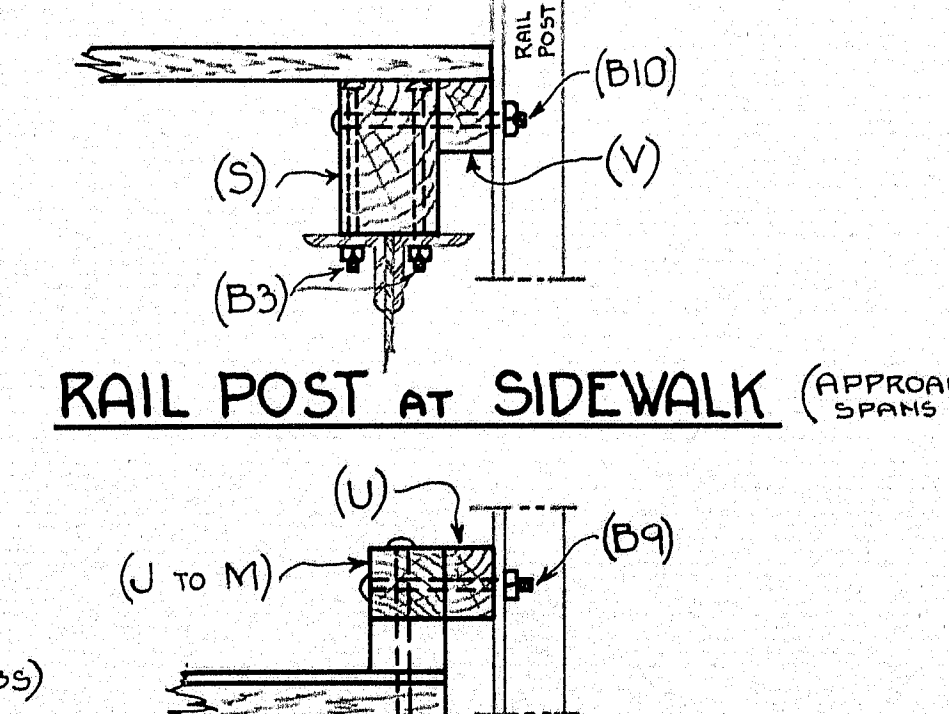
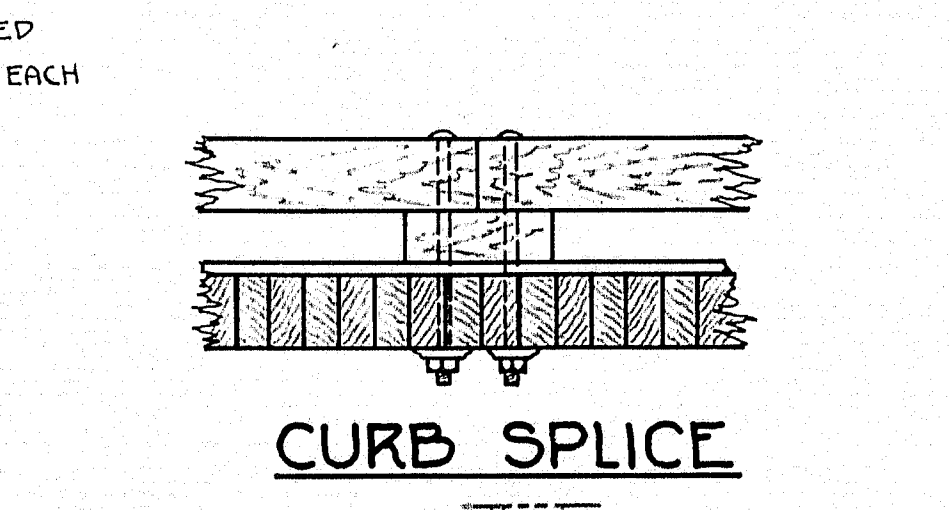
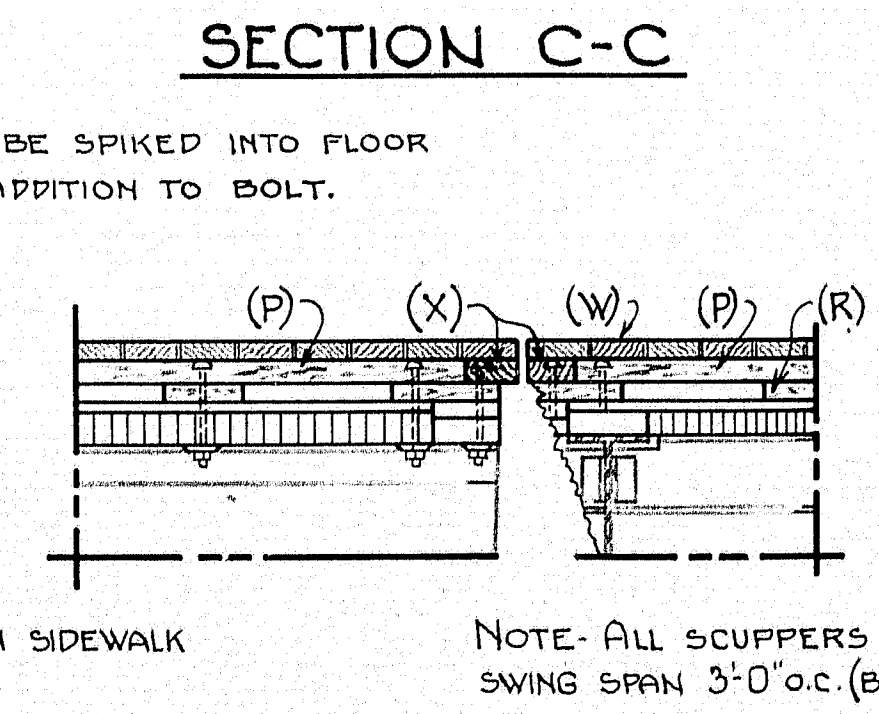
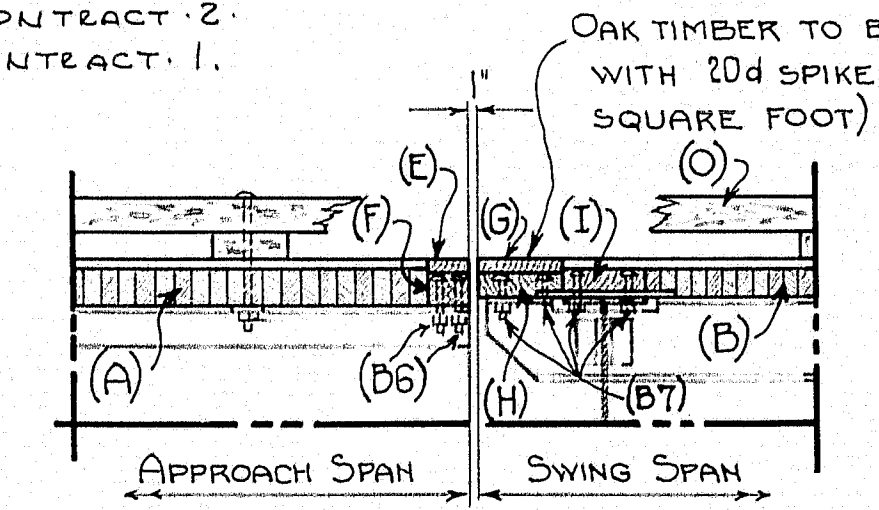
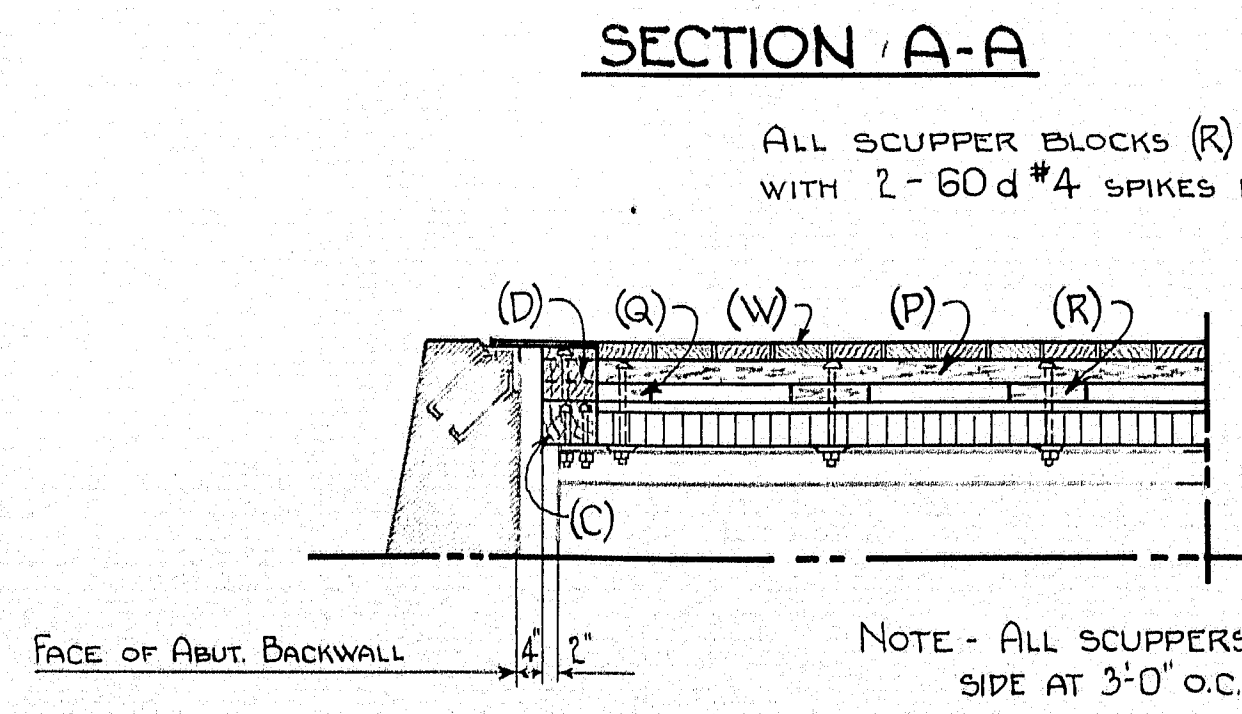
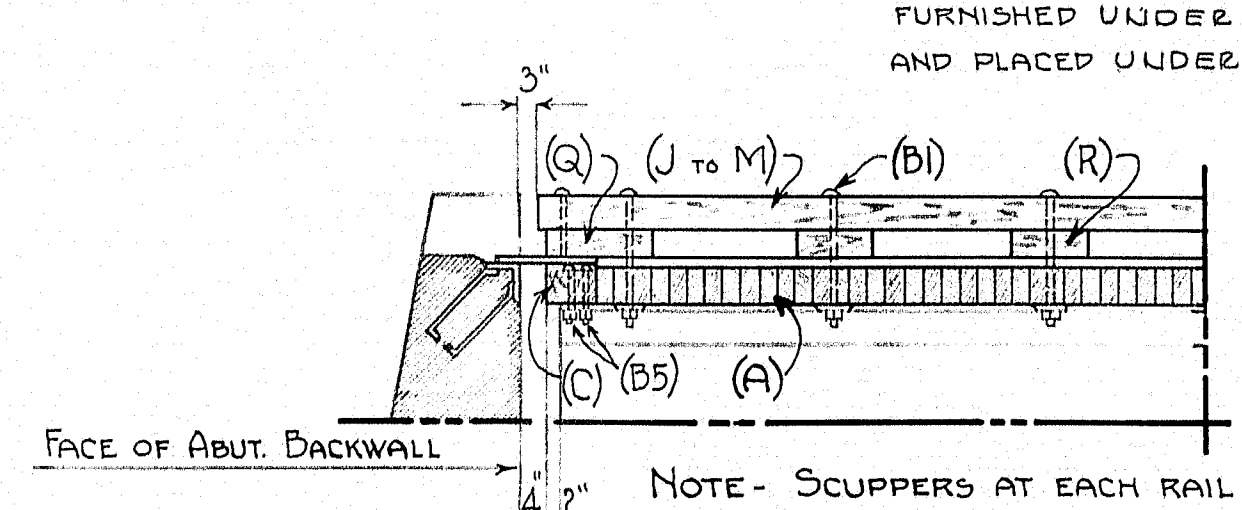
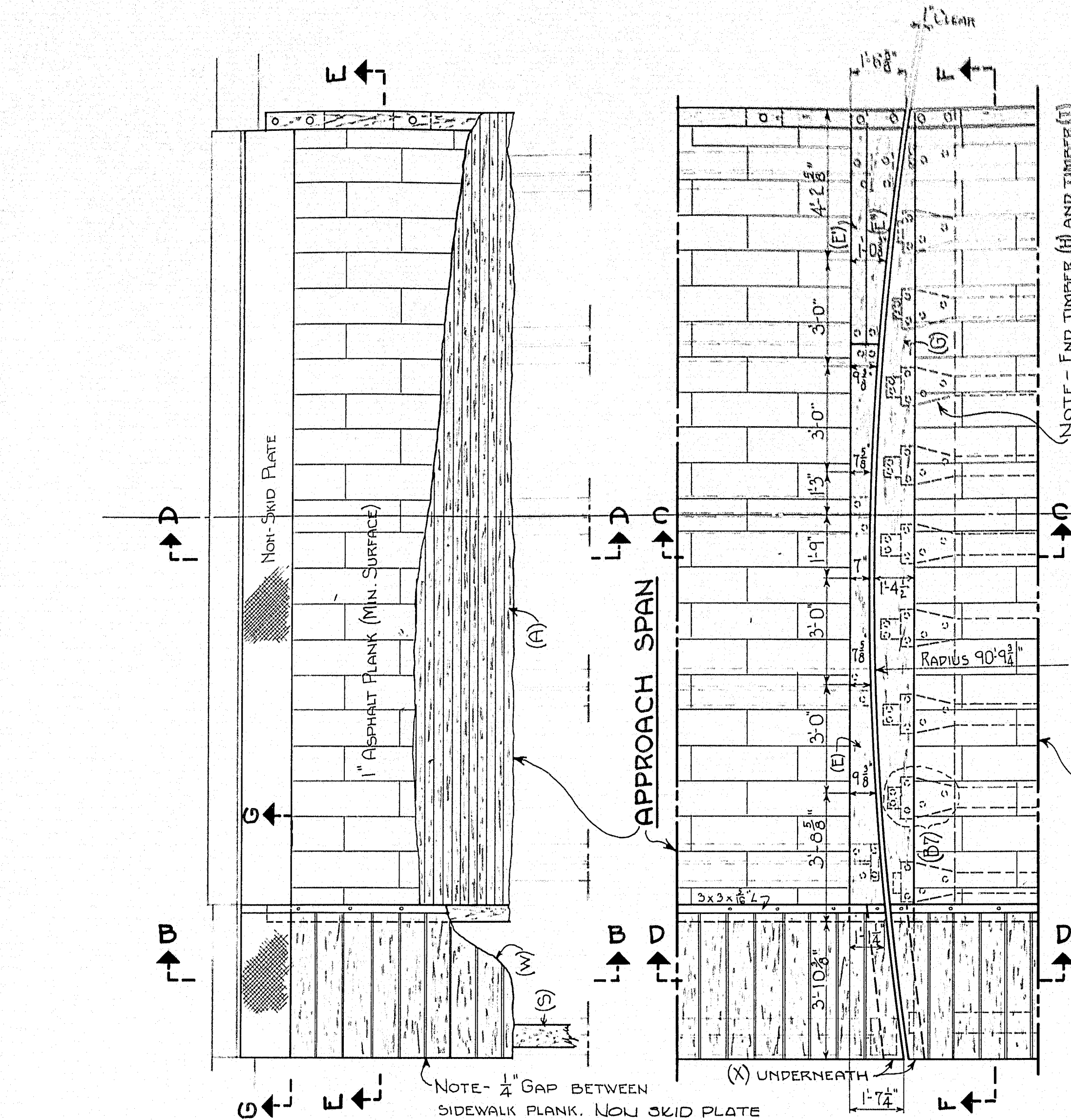
SOUTHPORT BRIDGE
OVER
TOWNSEND GUT
BETWEEN THE TOWNS OF
SOUTHPORT & BOOTHBAY HARBOR
LINCOLN COUNTY

GATE DETAILS

SHEET 17 OF 19 SHEETS AUGUSTA ME. OCT. 1932

38-19





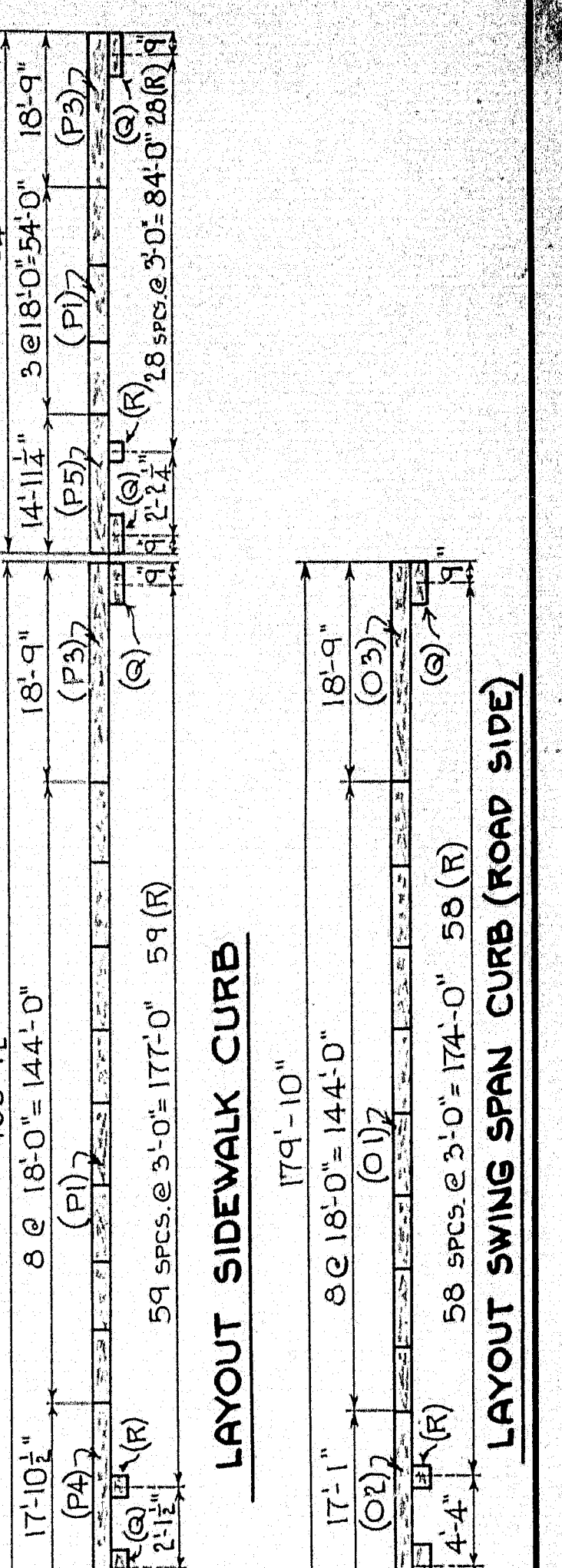
MARK	No.	FIN. SIZE	LENGTH	SURFACE	REMARKS
A	860	2 1/2" x 5 1/2"	23'-0"	S4S	STRIP FLOOR (APP. SPANS)
B	1330	1 1/2" x 3 1/2"	23'-0"	"	" (SWING SPAN)
C	2	5 1/2" x 9 1/2"	26'-9"	"	END TIMBER (AT ABUTS.)
D	2	5 1/2" x 9 1/2"	4'-4"	"	" (AT ABUTS.)
E	2	1 1/2" x 12"	16'-4"	"	APRON (APP. SPANS)
F	2	1 1/2" x 10"	6'-7"	"	"
G	2	5" x 1-1 1/2"	16'-4"	"	SPIKING PIECE (APP. SPANS)
H	2	5" x 1-1 1/2"	23'-0"	"	"
I	2	3 1/2" x 10 1/2"	23'-0"	"	APRON (SWING SPAN)
J	2	3 1/2" x 10 1/2"	23'-0"	"	SPIKING PIECE (SWING SPAN)
K	2	3 1/2" x 10 1/2"	23'-0"	"	OVER END FLOOR DM. (SWING SPAN)
L	1	5 1/2" x 5 1/2"	22'-0"	"	END R/WY CURBS (100' SPAN)
M	2	"	"	"	INT. " " " "
N	1	"	"	"	END " " " " "
O	1	"	"	"	100' SPAN REST RAIL END
P	3	"	"	"	END + INT. R/WY CURB (80' SPAN)
Q	1	"	"	"	END R/WY CURB (REST RAIL END)
R	1	"	"	"	ROADWAY CURB (SWING SPAN)
S	1	"	"	"	"
T	1	"	"	"	"
U	15	2 1/2" x 5 1/2"	18'-0"	"	SIDEWALK CURB
V	1	"	"	"	"
W	1	"	"	"	"
X	1	"	"	"	"
Y	12	3 1/2" x 5 1/2"	1'-0"	"	END SCUPPERS
Z	223	"	"	"	INT. SCUPPERS
AA	1	6" x 12 1/2"	190 L.F.	5-2-6'S	SIDEWALK (APP. SPANS)
AB	1	6" x 10 1/2"	180 L.F.	5-2-6'S	SPIKING PIECE (APP. SPANS)
AC	48	4 1/2" x 5 1/2"	0'-8"	S4S	RAIL POST BLOCKS (R/WY SIDE)
AD	48	5 1/2" x 6"	0'-8"	S4S	RAIL POST BLOCKS (SIDEWALK SIDE)
AE	572	2 1/2" x 7 1/2"	4'-4"	S4S	SIDEWALK PLANK
AF	4	2 1/2" x 6"	5'-0"	5-2-6'S	SPWK SUPPORTS AT REST PIERS

* 8383 SQ. FT. 1" ASPHALT PLANK (MINERAL SURFACED) REQUIRED OAK (UNTREATED). ALL OTHER TIMBER TO BE SOUTHERN YELLOW PINE OR DOUGLAS FIR. (STRUCTURAL GRADE). SEE SPECIFICATIONS FOR PRESERVATIVE TREATMENT.

MARK	No.	DIA.	LENGTH	TYPE	WASHERS	REMARKS
B1	60	3/4"	1'-6"	CARRIAGE	1 EACH (CAST)	CURB-SCUPPER-FLOOR (APP. SPANS)
B2	71	"	1'-4"	"	1 EACH (CAST)	" (SWING SPAN)
B3	69	"	1'-2 1/2"	"	"	(S) TO SIDEWALK BEAM (APP. SPANS)
B4	64	"	1'-0 1/2"	"	"	(T) " " (SWING SPAN)
B5	20	"	0'-7"	"	"	(C) TO BEAMS AT ABUTS.
B6	32	"	0'-6 1/2"	"	"	(F-F) TO BHS " REST PIERS
B7	116	"	0'-5"	"	"	(H-I) TO (FLOOR DECK) (SWING SPAN)
B8	12	"	0'-7 1/2"	"	"	STRIP FLOOR TO R. DM. (PIER)
B9	48	"	0'-11 1/2"	"	"	(U) TO CURB (RAIL BLOCKS)
B10	48	"	1'-"	"	"	(V) TO (S) " " "
B11	77	"	1'-2 1/4"	"	1 EACH (CAST)	SIDEWALK CURB (APP. SPANS)
B12	71	"	1'-0 1/2"	"	"	" (SWING SPANS)
B13	4	"	1'-4 1/2"	"	"	(P/C) TO SIDEWALK BEAM.
B14	2	"	1'-4 1/2"	"	1 EACH (CAST)	(P/C) " " "

NOTE - ALL BOLTS, NUTS AND WASHERS TO BE GALVANIZED.

7.0 CWT. 16 d NAILS REQ'D FOR ASPHALT PLANK
 3.5 CWT. 20d NAILS " " SW. PLANK-OAK APRONS AND ANCHOR PLATES.
 2700 ANCHOR PLATES FOR 1 1/2" x 3 1/2" STRIP FLOOR.
 1450 " " 2 1/2" x 5 1/2" " "
 5.75 CWT. 20d NAILS REQ'D FOR 1 1/2" x 3 1/2" STRIP FLOOR.
 11.0 CWT. 60d #4 NAILS REQ'D FOR 2 1/2" x 5 1/2" STRIP FLOOR.



P.W.A. Project No. MAINE 1120-F
 PLAN - Hamilton
 CHECKER - G.F.H.B.

STATE HIGHWAY COMMISSION
 BRIDGE DIVISION

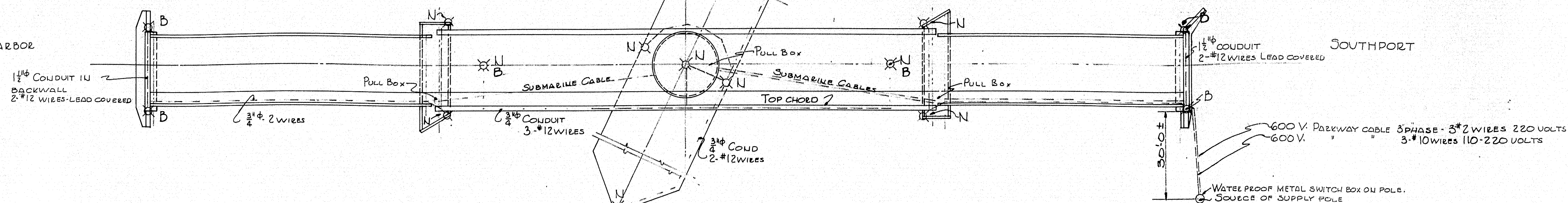
SOUTHPORT BRIDGE
 OVER
 TOWNSEND GUT
 BETWEEN THE TOWNS OF
SOUTHPORT & BOOTHBAY HARBOR
 LINCOLN COUNTY

FLOOR PLAN

SHEET 18 OF 19 SHEETS AUGUSTA ME. OCT. 1938.

BOOTHBAY HARBOR

SOUTHPORT



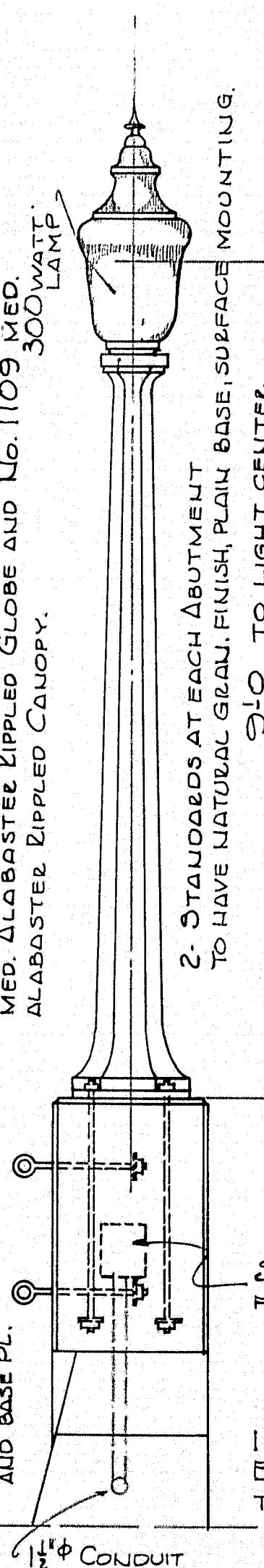
HOLLOW SPAN GRANITE STANDARD

MATERIAL REQUIRED

1. Hollow span standards
2. Westinghouse Crystalux Jr. Units No. 352560 or G. E. Straight Multiple Type Units No. 109 MED. ALABASTER DIPPED GLOBE AND No. 1109 MED. ALABASTER DIPPED CANOPY.

300 WATT LAMP

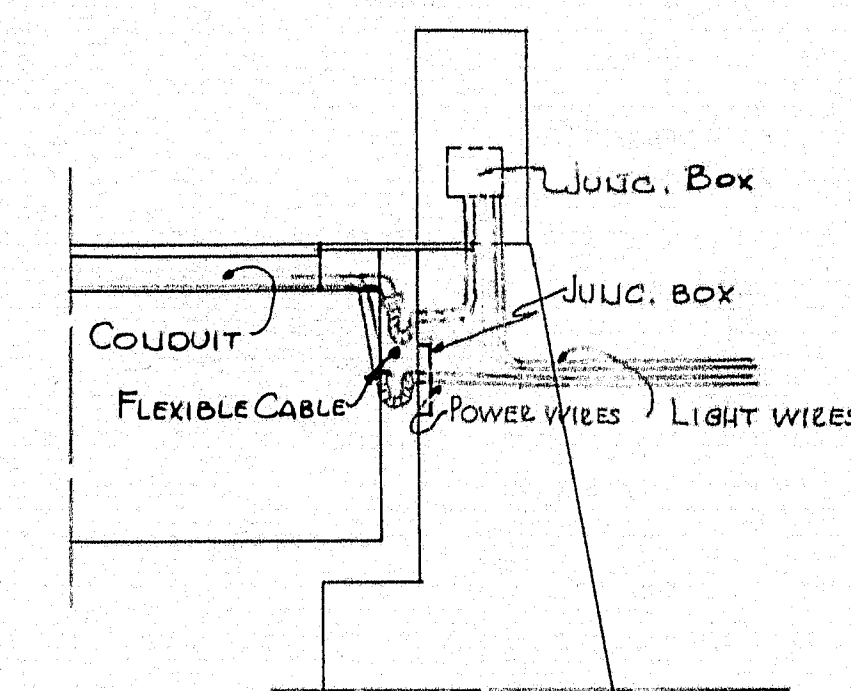
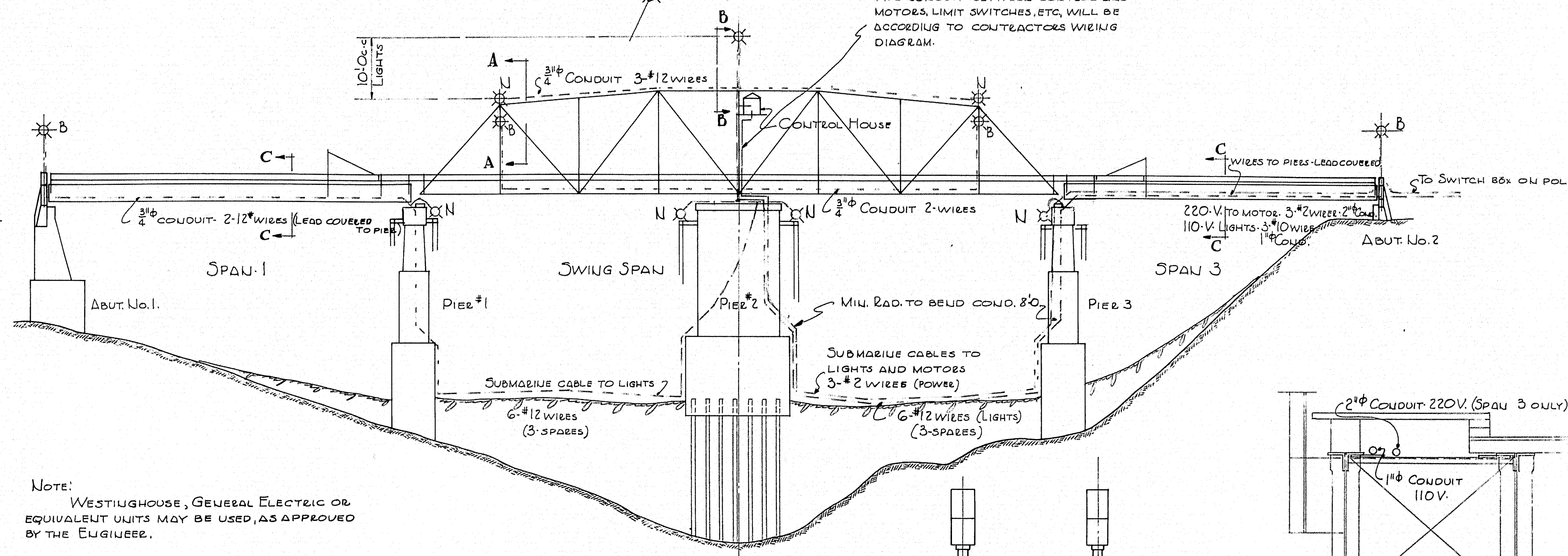
2. STANDARDS AT EACH ABUTMENT TO HAVE NATURAL GRAY FINISH, PLAIN BASE, SURFACE MOUNTING.



STANDARD ZINC JUNCTION BOX ON FACE OF EACH POST.

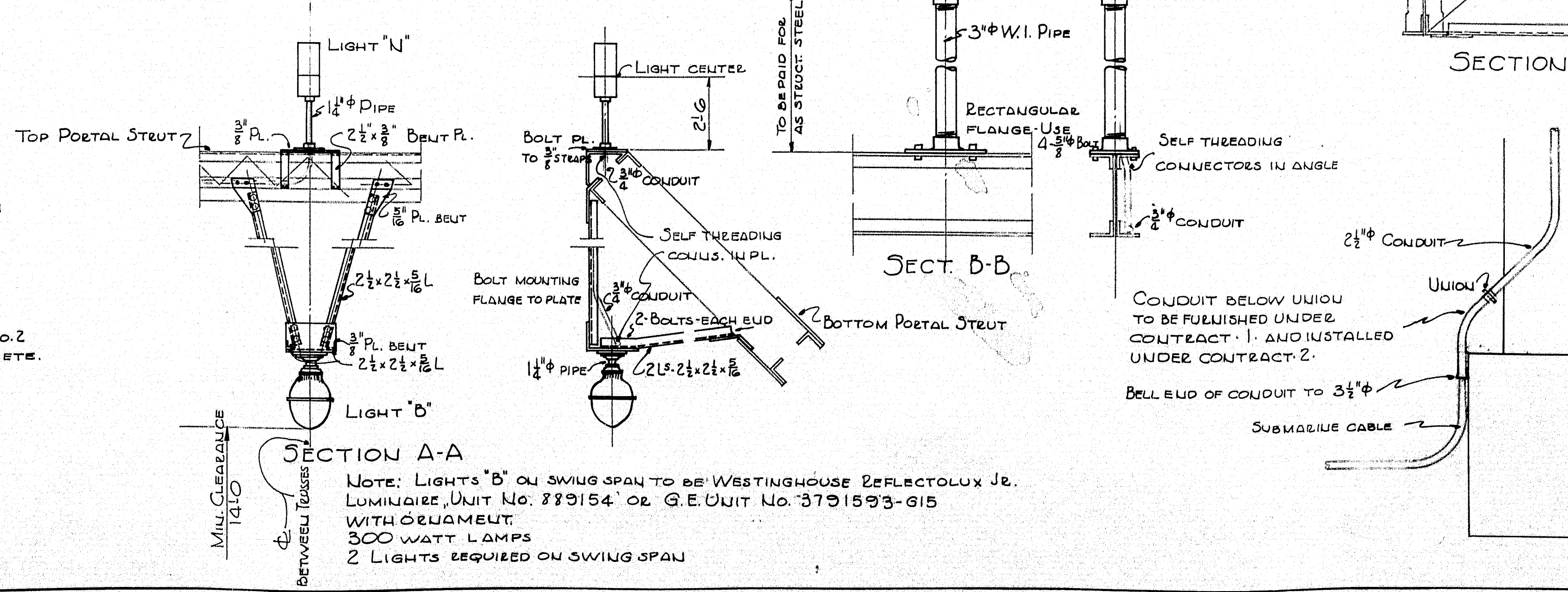
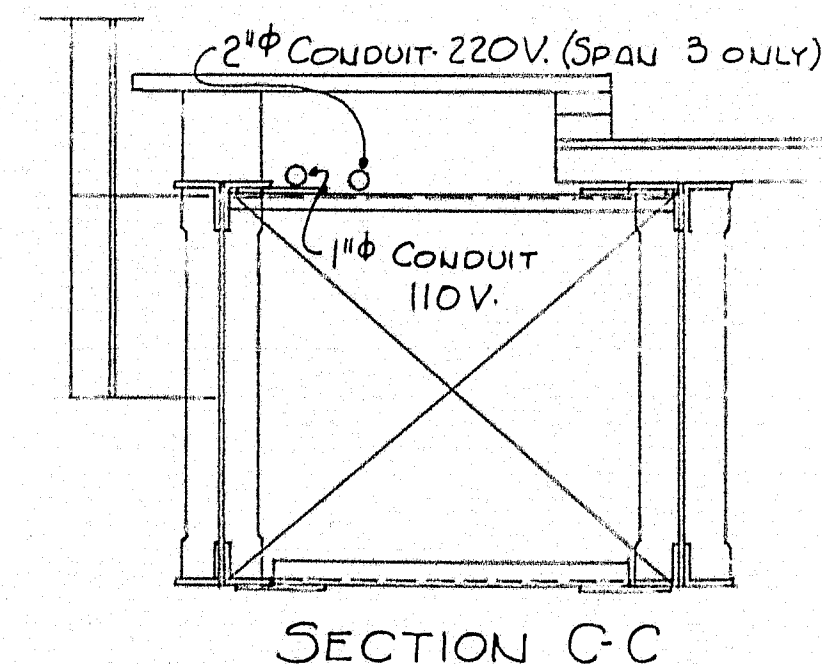
INSTALL EYE BOLTS IN ALL POSTS. EYE BOLTS IN NORTH POST ABUT. NO. 2 TO BE INCLUDED IN COST OF CONCRETE.

NOTE: WESTINGHOUSE, GENERAL ELECTRIC OR EQUIVALENT UNITS MAY BE USED, AS APPROVED BY THE ENGINEER.



EXPLAN. AT ABUTS.

NOTE: NAVIGATION LIGHTS MARKED "N", BRIDGE LIGHTS MARKED "B". NAVIGATION LIGHTS ON FEEDER PIER AND REST PIERS TO BE 180° STANDARD PIER LAMPS, AND THE THREE ON THE SWING SPAN TO BE AS DESCRIBED IN THE SPECIFICATIONS. ALL NAVIGATION LIGHTS AND THE TWO BRIDGE LIGHTS ON THE SWING SPAN TO BE ON THE SAME CIRCUIT. THE BRIDGE LIGHTS ON THE APPROACHES TO BE ON A SEPARATE CIRCUIT. THE TWO LIGHT CIRCUITS AND POWER CIRCUIT TO BE CONTROLLED BY SWITCHES ON SOURCE OF SUPPLY POLE. ALL WIRING SHALL BE IN PIPE CONDUIT EXCEPT THE HOUSE WIRING FOR THE OPERATOR'S HOUSE.

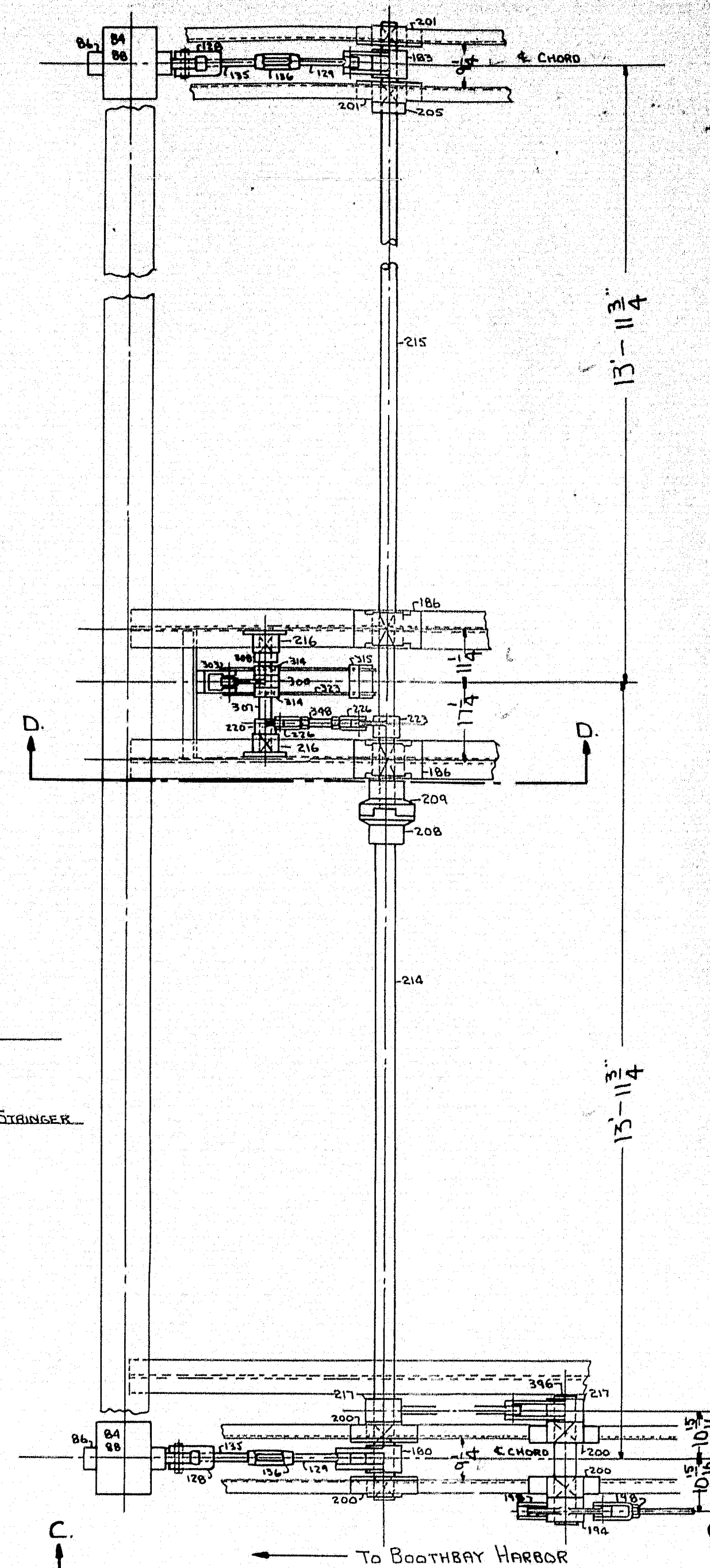
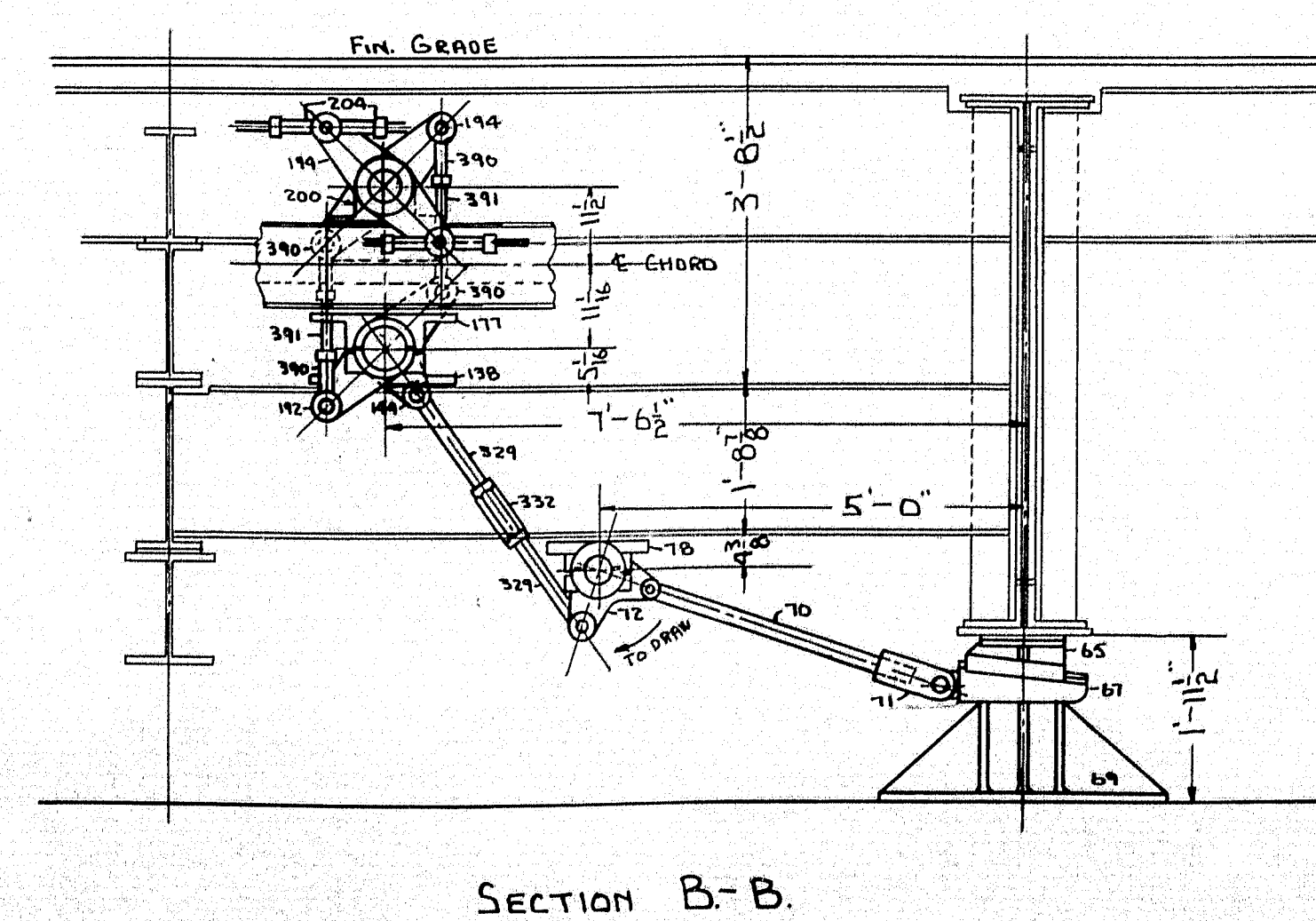
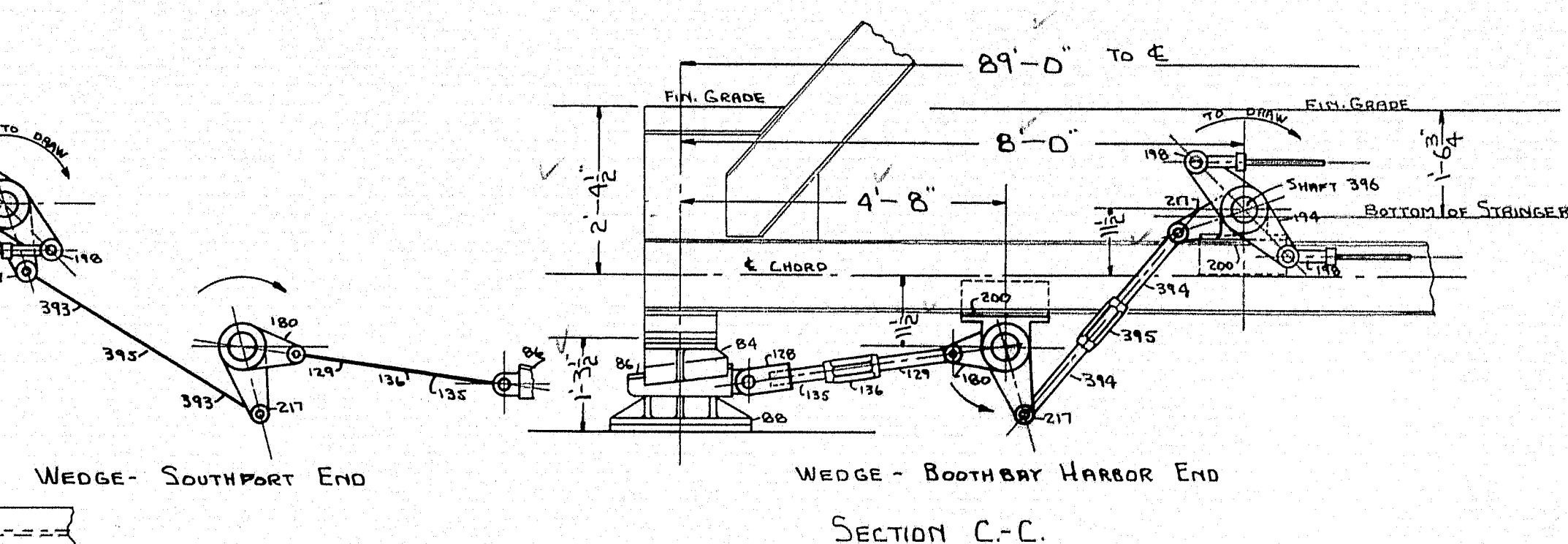
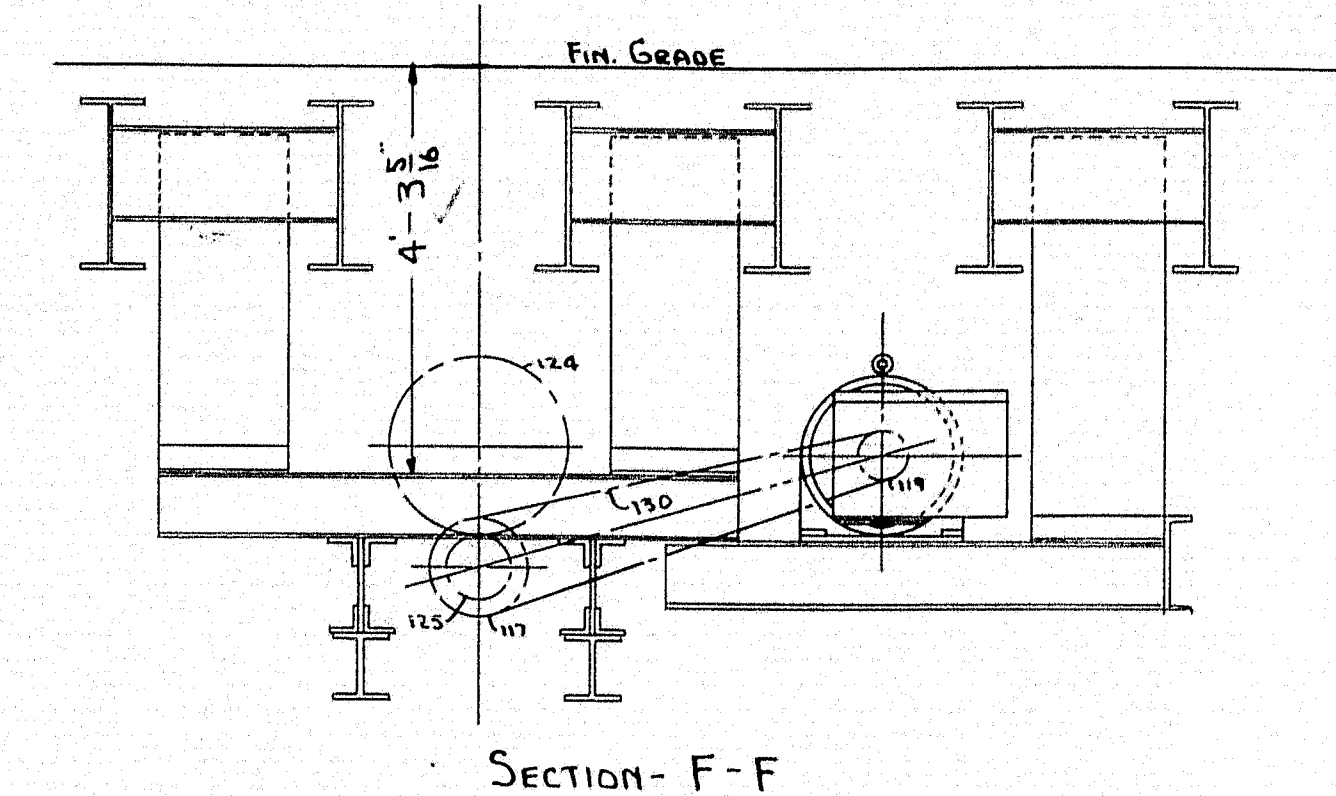
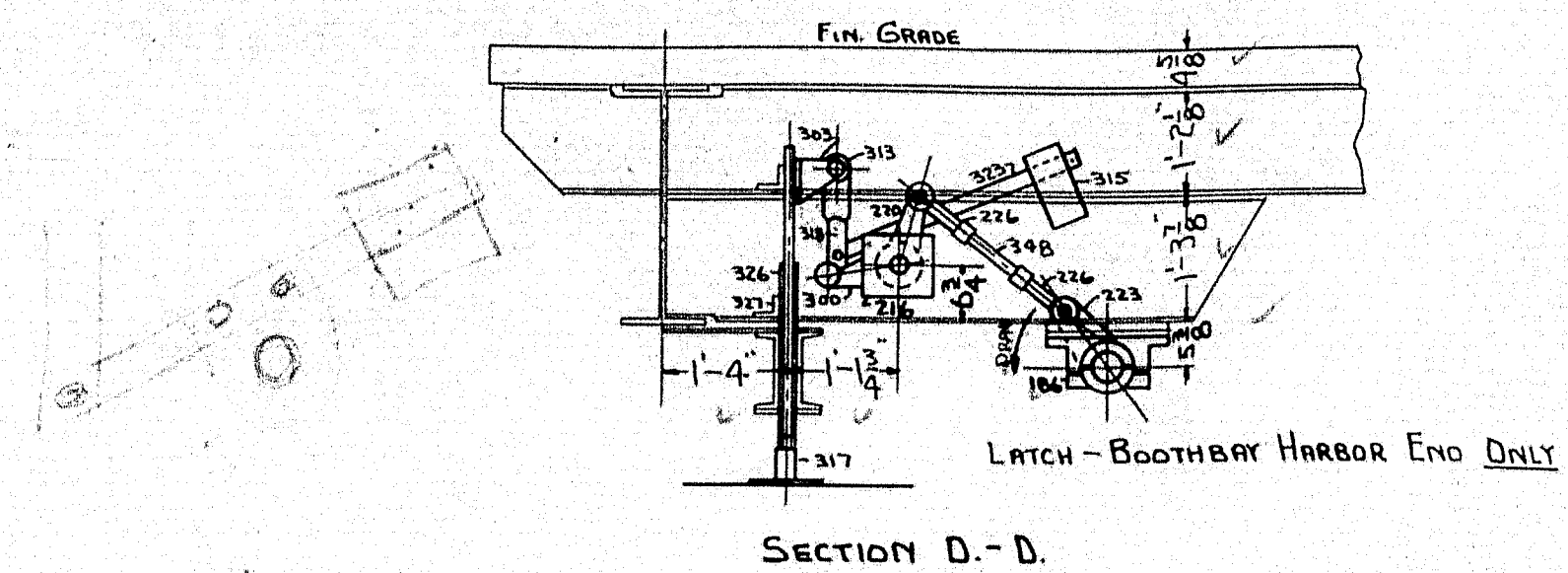
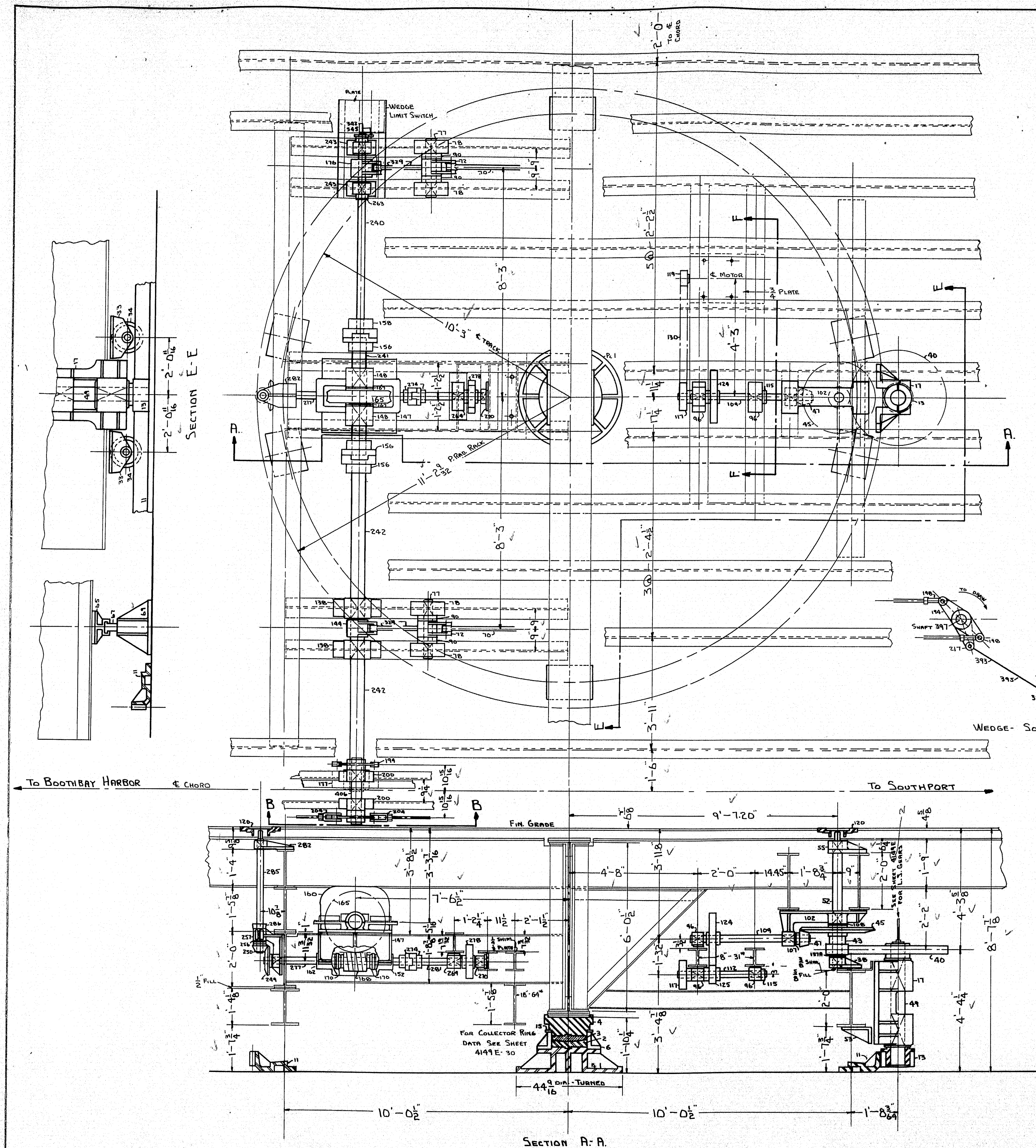


NOTE: LIGHTS "B" ON SWING SPAN TO BE WESTINGHOUSE REFLECTOLUX JR. LUMINAIRE, UNIT No. 889154 or G. E. UNIT No. 3791593-615 WITH ORNAMENT. 300 WATT LAMPS. 2 LIGHTS REQUIRED ON SWING SPAN

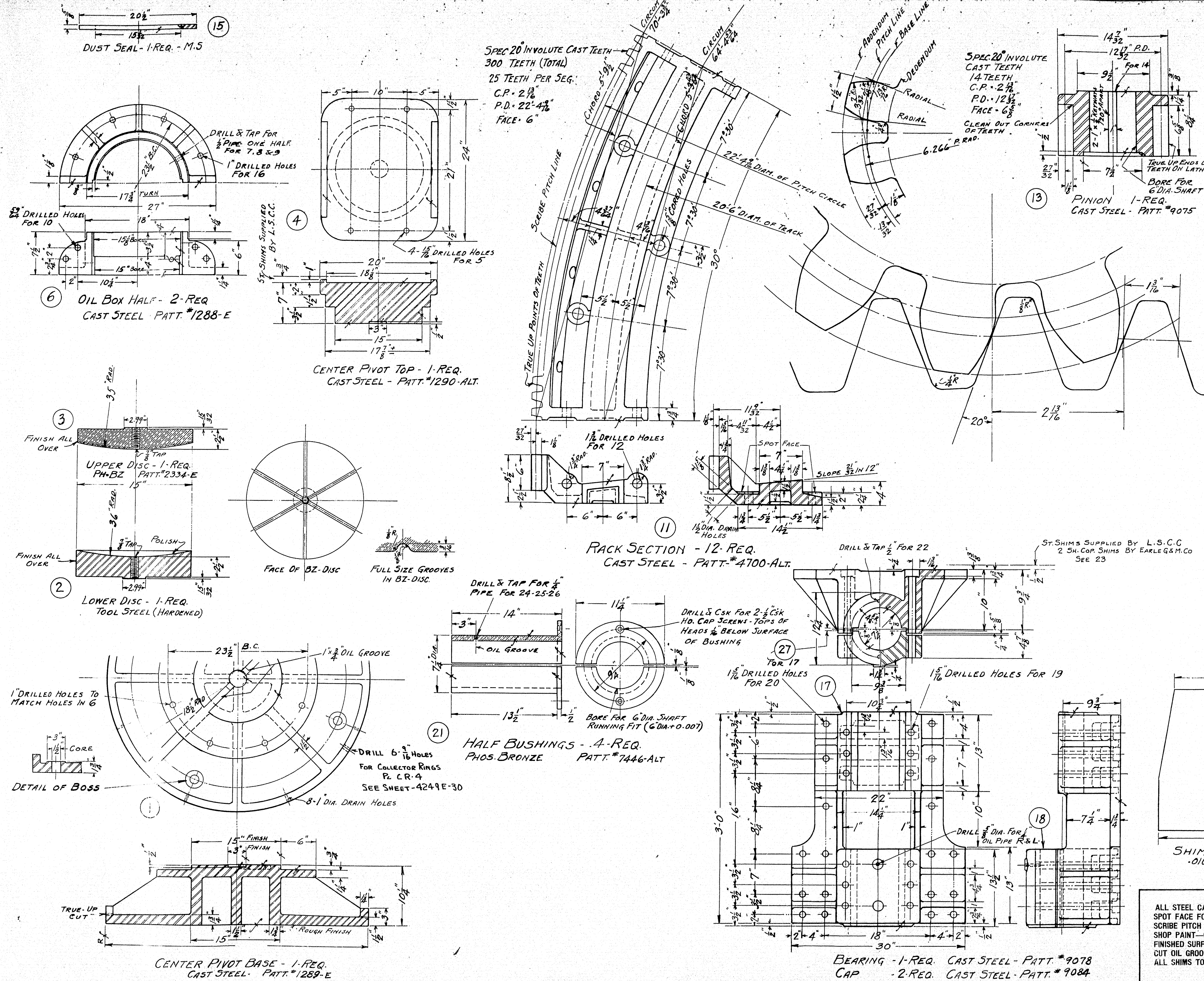
P.W.A. PROJECT No. MAINE 1120-F

PLAN E.E.B. TRACE 1.2. TOWN 08-15 BRIDGE 2789

STATE HIGHWAY COMMISSION
BRIDGE DIVISION
SOUTHPORT BRIDGE
OVER
TOWNSEND GUT
BETWEEN THE TOWNS OF
SOUTHPORT & BOOTHBAY HARBOR
LINCOLN COUNTY
ELECTRICAL PLAN
SHEET 19 OF 19 SHEETS AUGUSTA ME. OCT. 1938



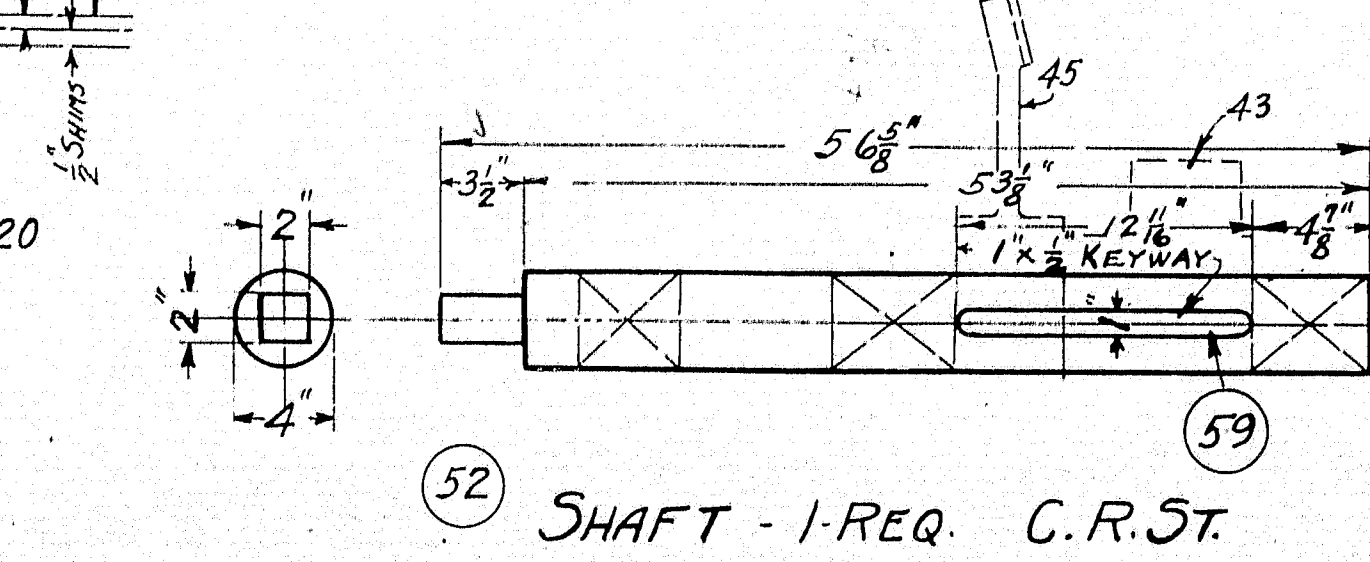
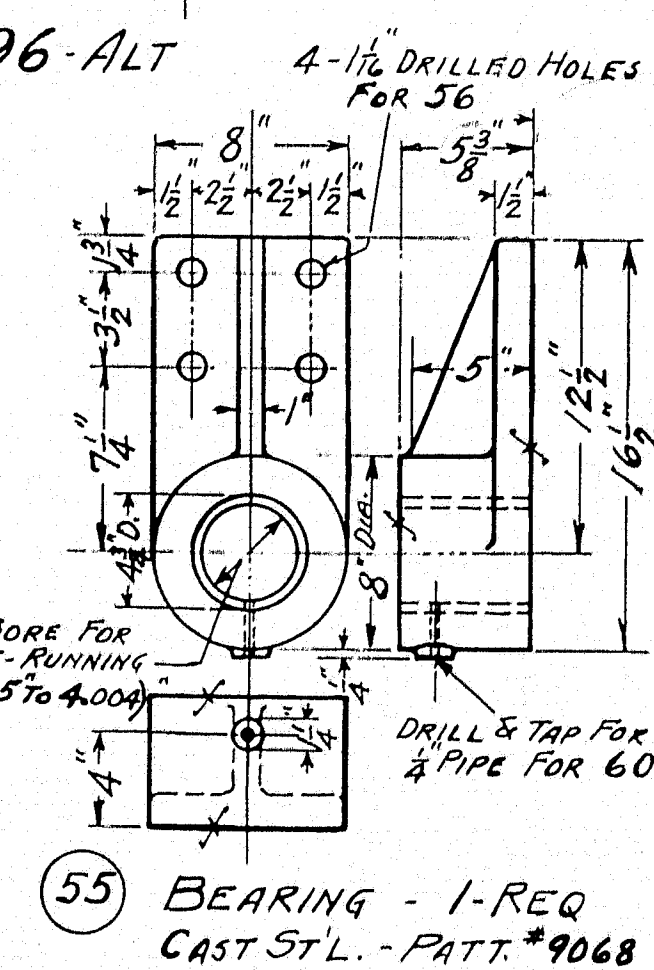
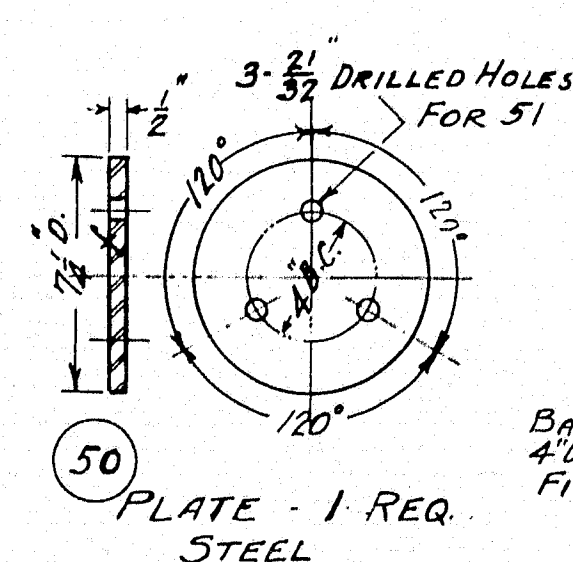
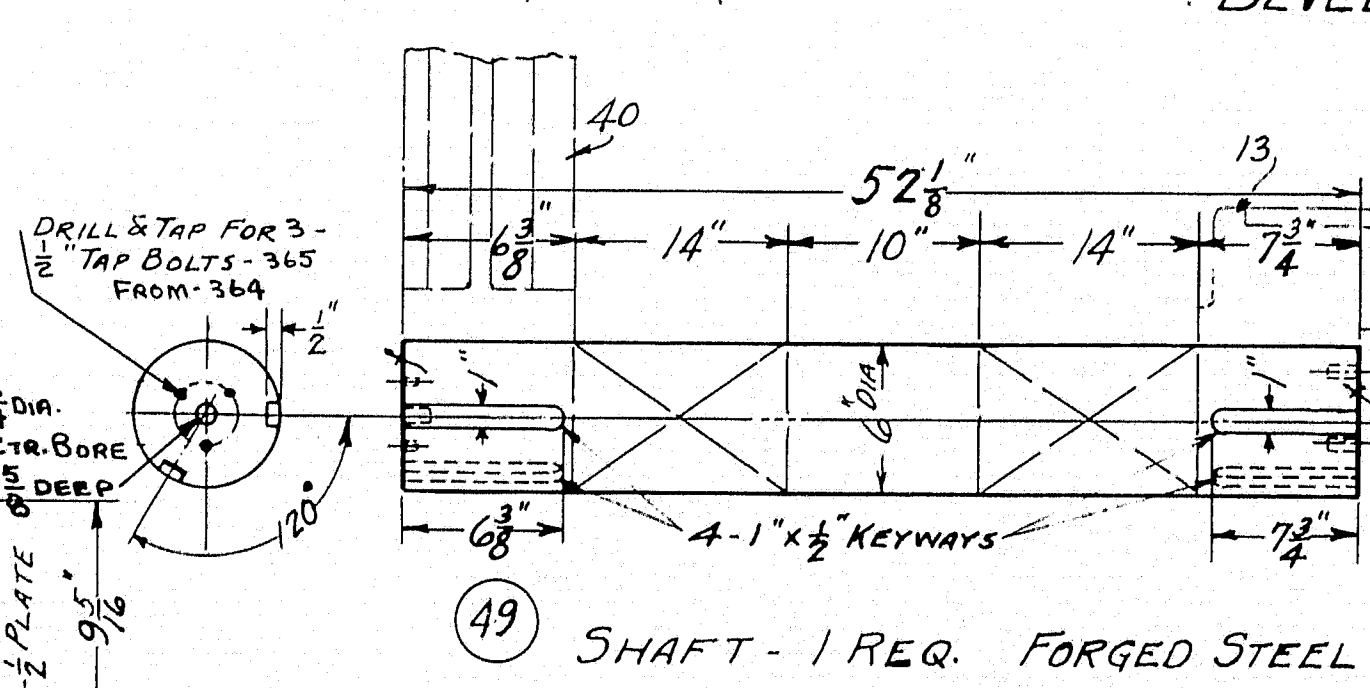
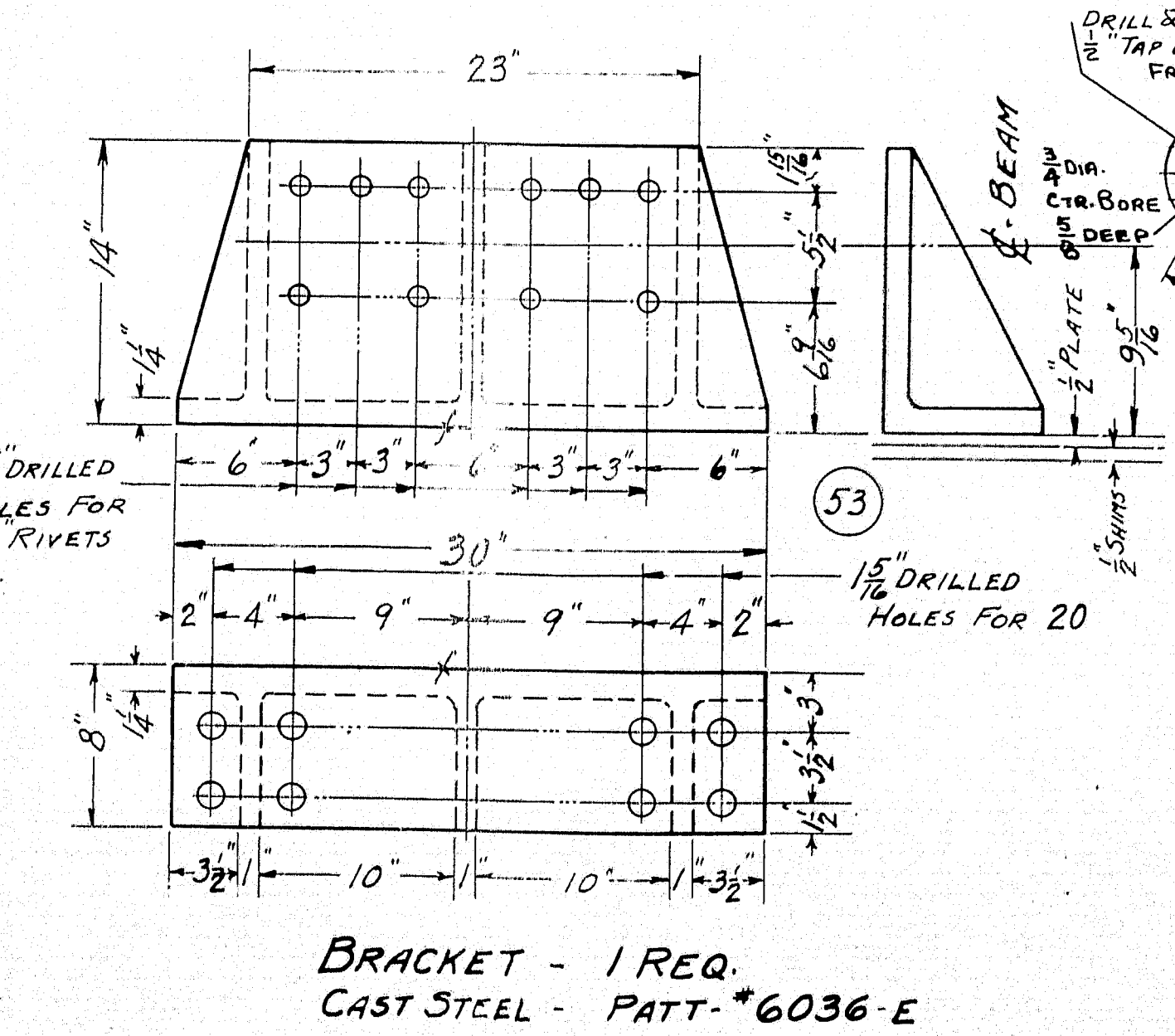
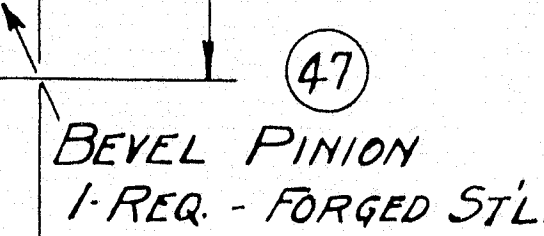
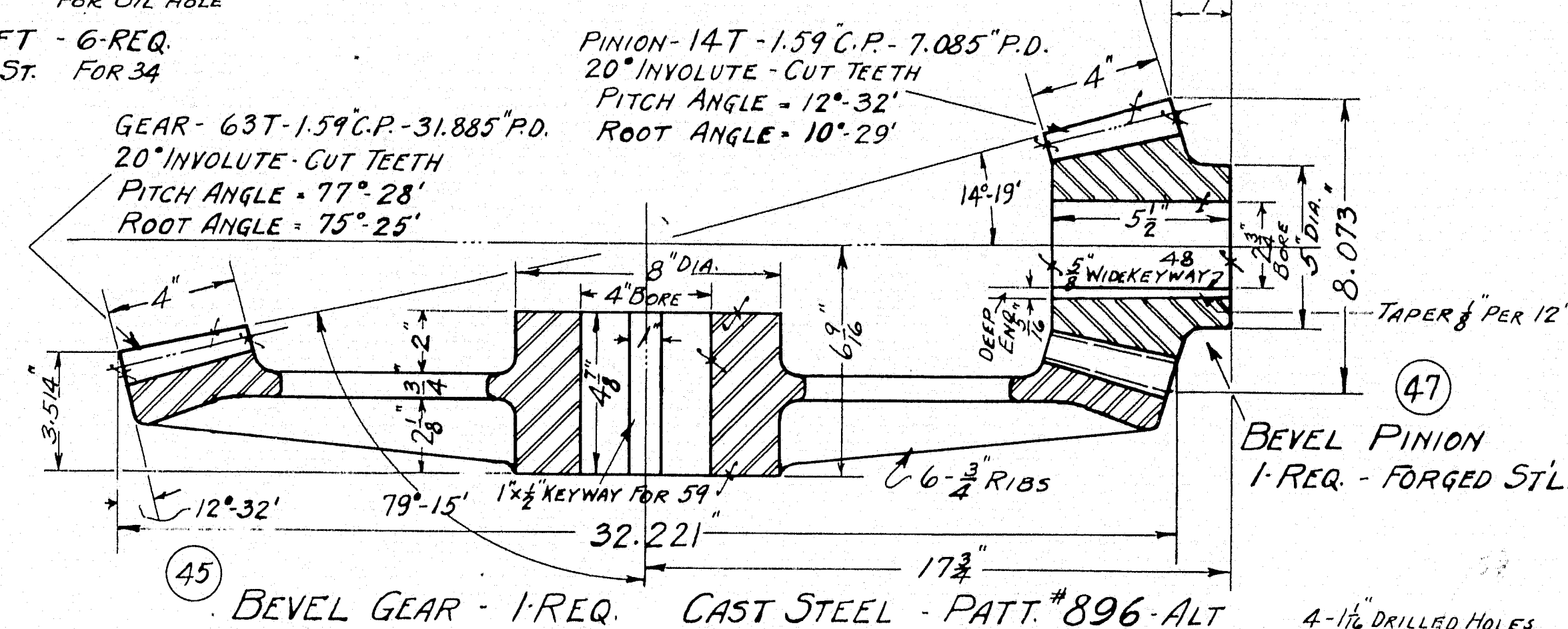
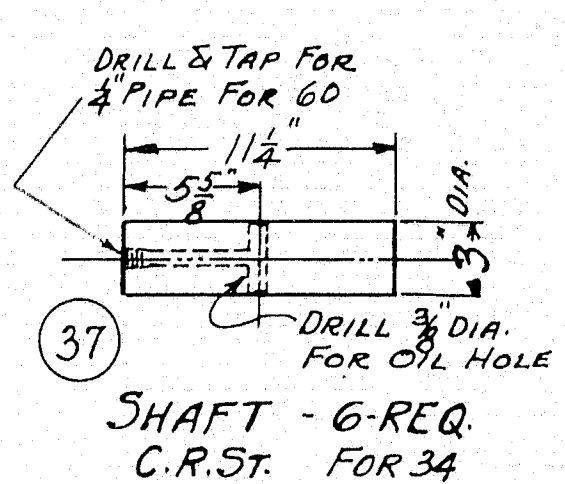
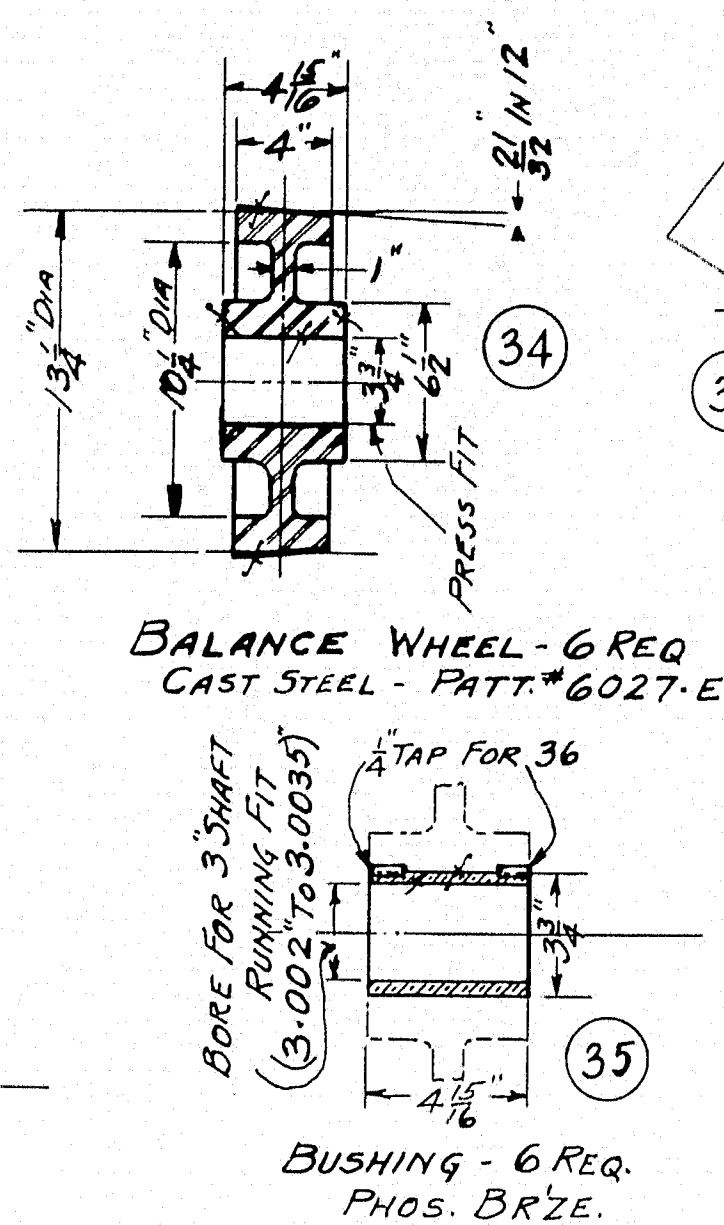
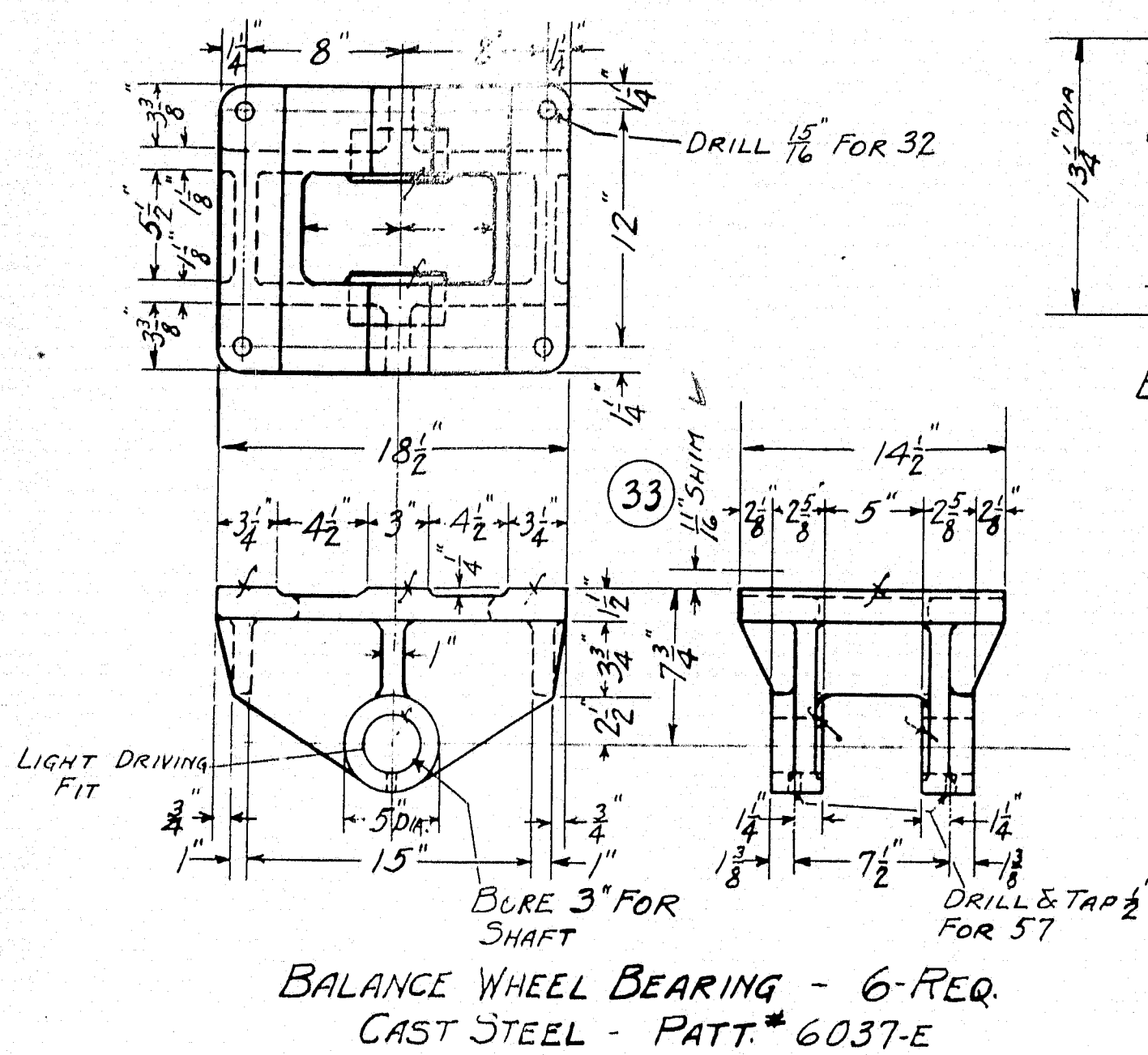
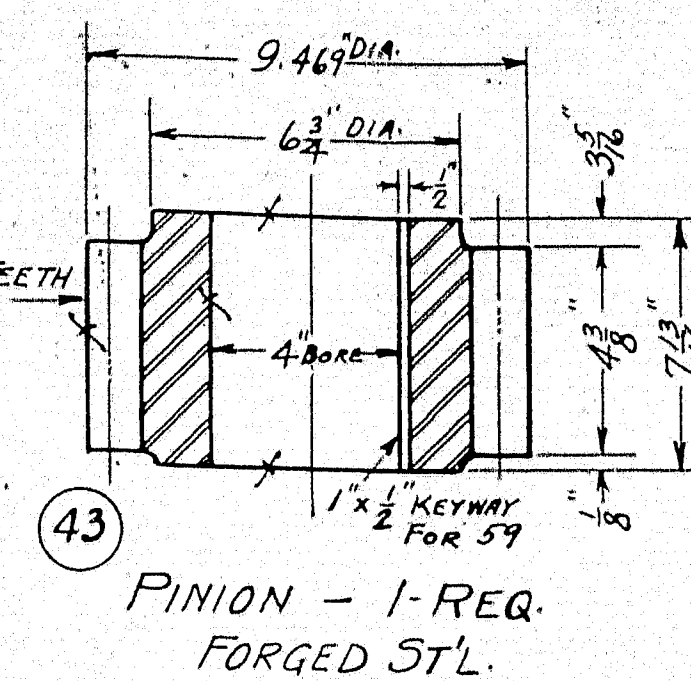
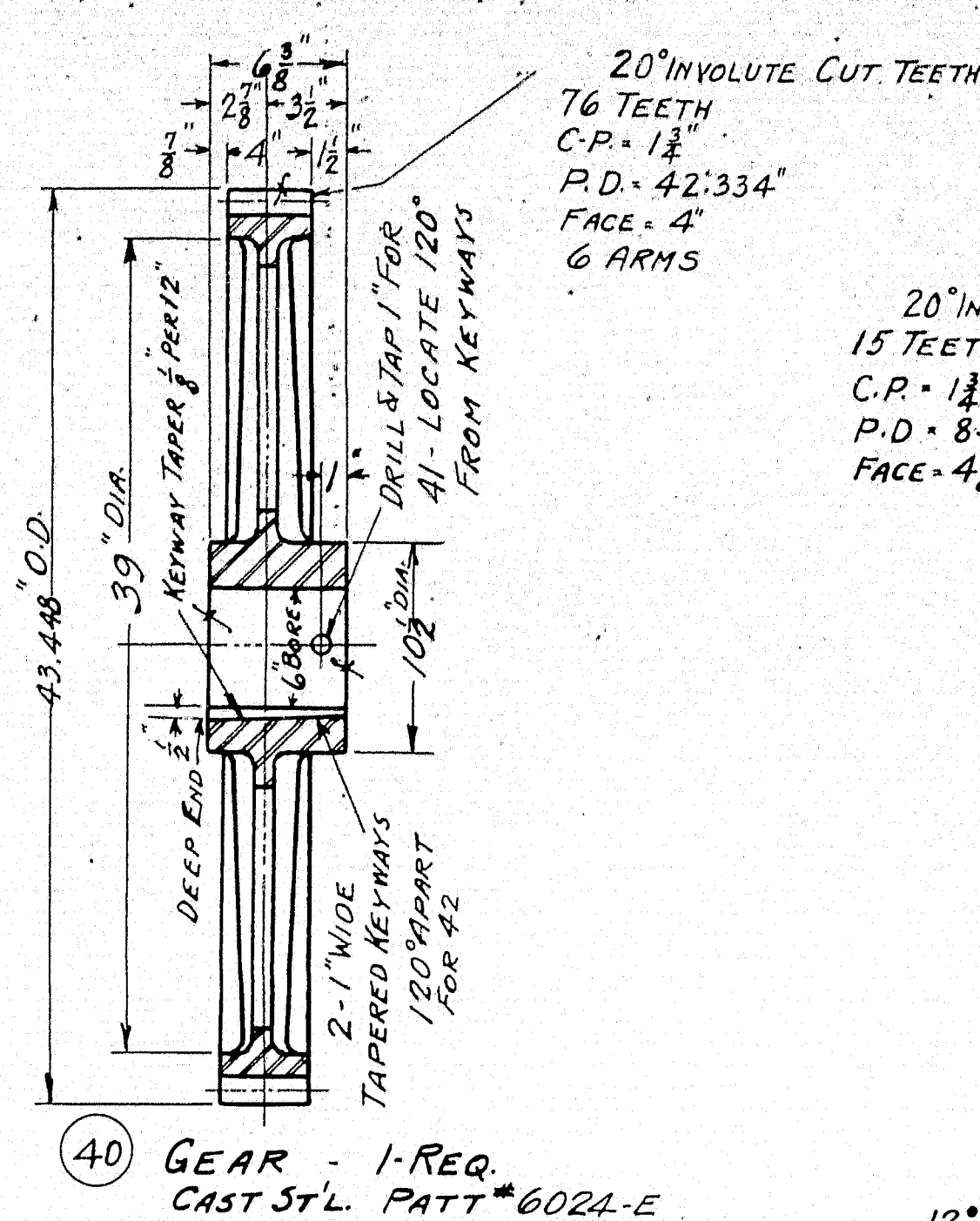
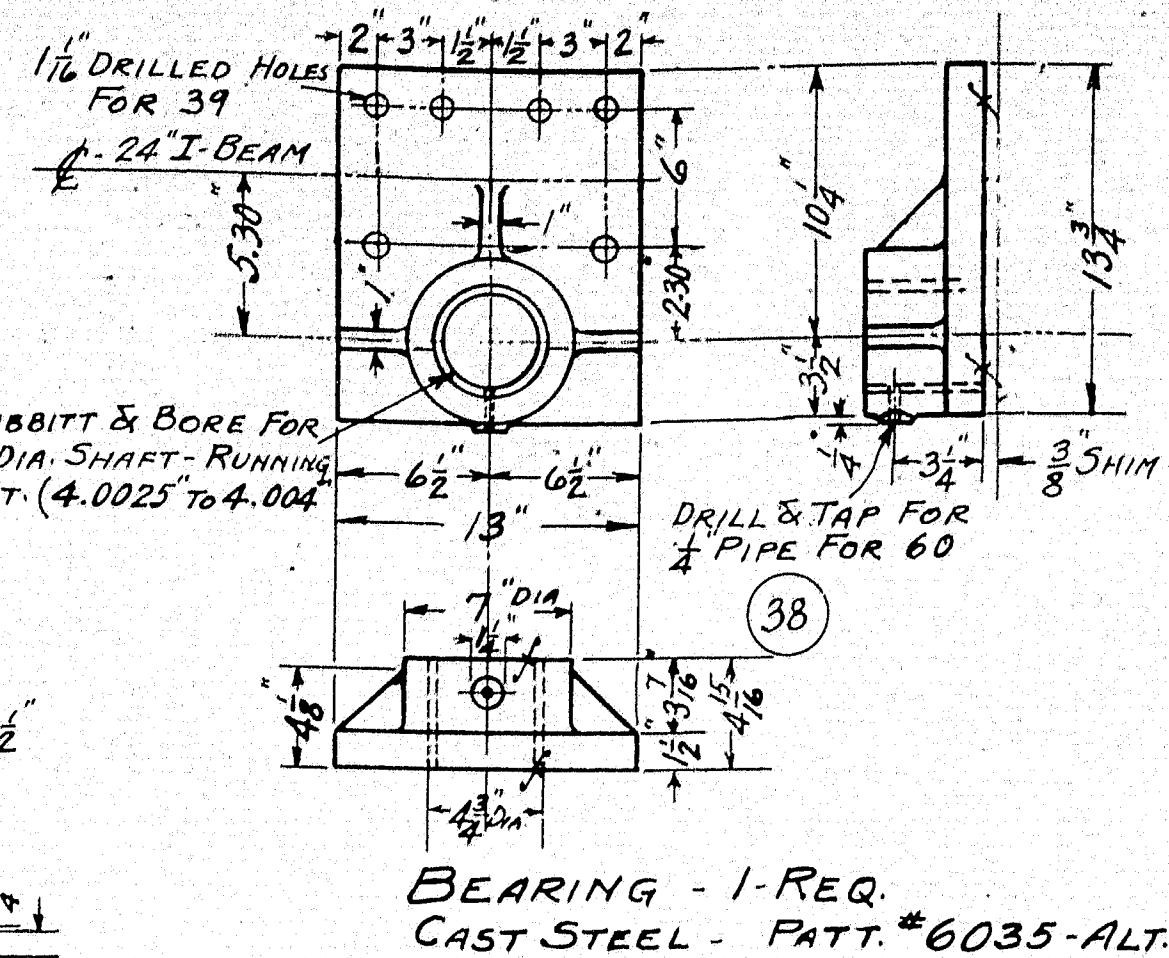
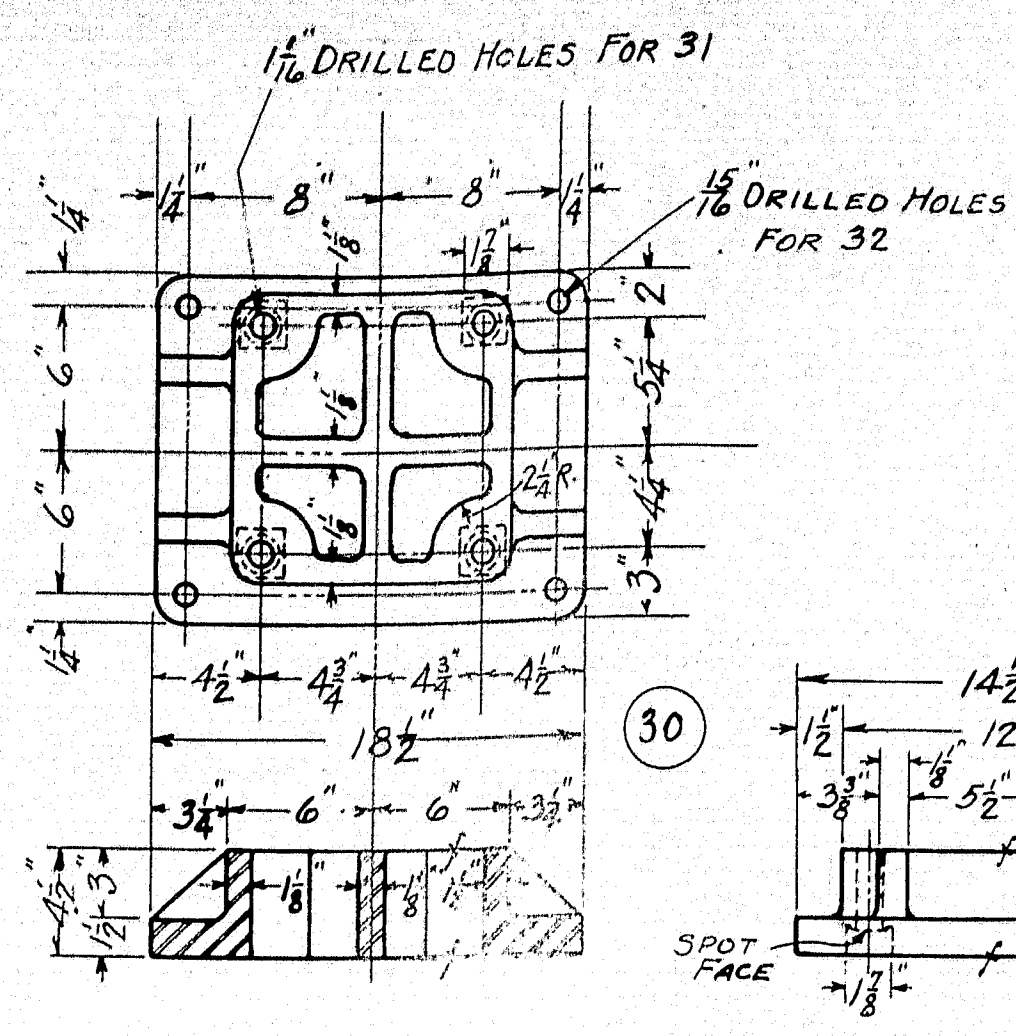
S.O. B-2141 CONTRACT
 OPERATING MACHINERY
 SOUTHPORT BRIDGE
 FOR
 STATE OF MAINE
 LAKAWANNA STEEL CONST. CORP., CONTRACTOR
 P.W.A. PROJECT NO. MAINE 1120F
 THE EARLE GEAR AND MACHINE COMPANY
 4207 TO 4310 WENTON AVENUE
 PHILADELPHIA, PA.
 DRAWN BY O.B.S. 2-10-39
 CHECKED BY R.P. 2-10-39
 DATE OF REVIEW 6-28-39
 DWG. NO. 4240-E 30
 FILE NO. 38-22



S.O. B-2141		BILL OF MATERIAL		DWG. 4241 E	
PC.	NAME	Q.	MAT'L PATT.	REMARKS	
1	CENTER PIVOT BASE	1	C.S. 1289	EXIST	
2	LOWER DISC	1	T.S.		
3	UPPER DISC	1	PH.BZ. 2334	EXIST	
4	CENTER PIVOT TOP	1	C.S. 1290	ALT.	
5	TURNED BOLTS - FOR 4	4	ST.	T.B. LIST	
6	OIL BOX HALF	2	C.S. 1288	EXIST	
7	PIPE NIPPLE FOR 6	2	ST.	3" LG.	
8	SCR. ELBOW FOR 6	1	M.I.		
9	PIPE CAP FOR 6	1	M.I.		
10	TURNED BOLTS - FOR 6	4	ST.	T.B. LIST	
11	RACK SECTION	12	C.S. 4700	ALT.	
12	TURNED BOLTS - FOR 11	24	ST.	T.B. LIST	
13	PINION	1	C.S. 9075		
14	KEY FOR 13	2	ST.	1" x 1 1/4" - SEE KEY LIST	
15	DUST SEAL	1	M.S.		
16	BOLTS FOR 6	8	ST.	T.B. LIST	
17	BEARING	1	C.S. 9078		
18	BEARING CAP	2	C.S. 9084		
19	BOLTS FOR 17 & 18	12	ST.	T.B. LIST	
20	BOLTS FOR 17	18	ST.	T.B. LIST	
21	HALF BUSHING	4	PH.BZ. 7446	ALT.	
22	SCREWS FOR 21	4	BR.	1/2 x 1 1/2 Csk. Hd. CAP	
23	SHIM	2	SH. COR.	.010 THICK	
24	LUBRICATING FITTING	2			
25	PIPE NIPPLE FOR 24	2	ST.	4" LG.	
26	PIPE SOCKET FOR 24	2	M.I.		
27	LINER FOR 17	4	FIBRE	1 1/2 x 1 1/2 x 13 1/2 LG.	

GENERAL NOTES
 ALL STEEL CASTINGS & FORGINGS TO BE ANNEALED
 SPOT FACE FOR ALL BOLT HEADS & NUTS
 SCRIBE PITCH LINES ON BOTH SIDES OF ALL GEARS
 SHOP PAINT - ONE COAT -
 FINISHED SURFACES COATED - NO OX-ID GREASE
 CUT OIL GROOVES IN ALL BEARINGS UNLESS NOTED
 ALL SHIMS TO BE DRILLED

S.O. B-2141 CONTRACT
 OPERATING MACHINERY
 SOUTHPORT BRIDGE
 FOR
 STATE OF MAINE
 LACKAWANNA STEEL CONST. CORP., CONTR.
 PWA PROJECT NO. MAINE 1120 F
 THE EARLE GEAR AND MACHINE COMPANY
 4707 TO 4715 STENTON AVENUE
 PHILADELPHIA, PA.
 DRAWN BY: GOSSETT APPROVED BY: ME. HIGHWAY COMM. DES. 30
 CHECKED BY: R.E. 12-20-38 REV. APPV.
 DATE OF PRINT: 12-23-38
 SHEET 2 OF DWG. NO. 4241 E FILE 30

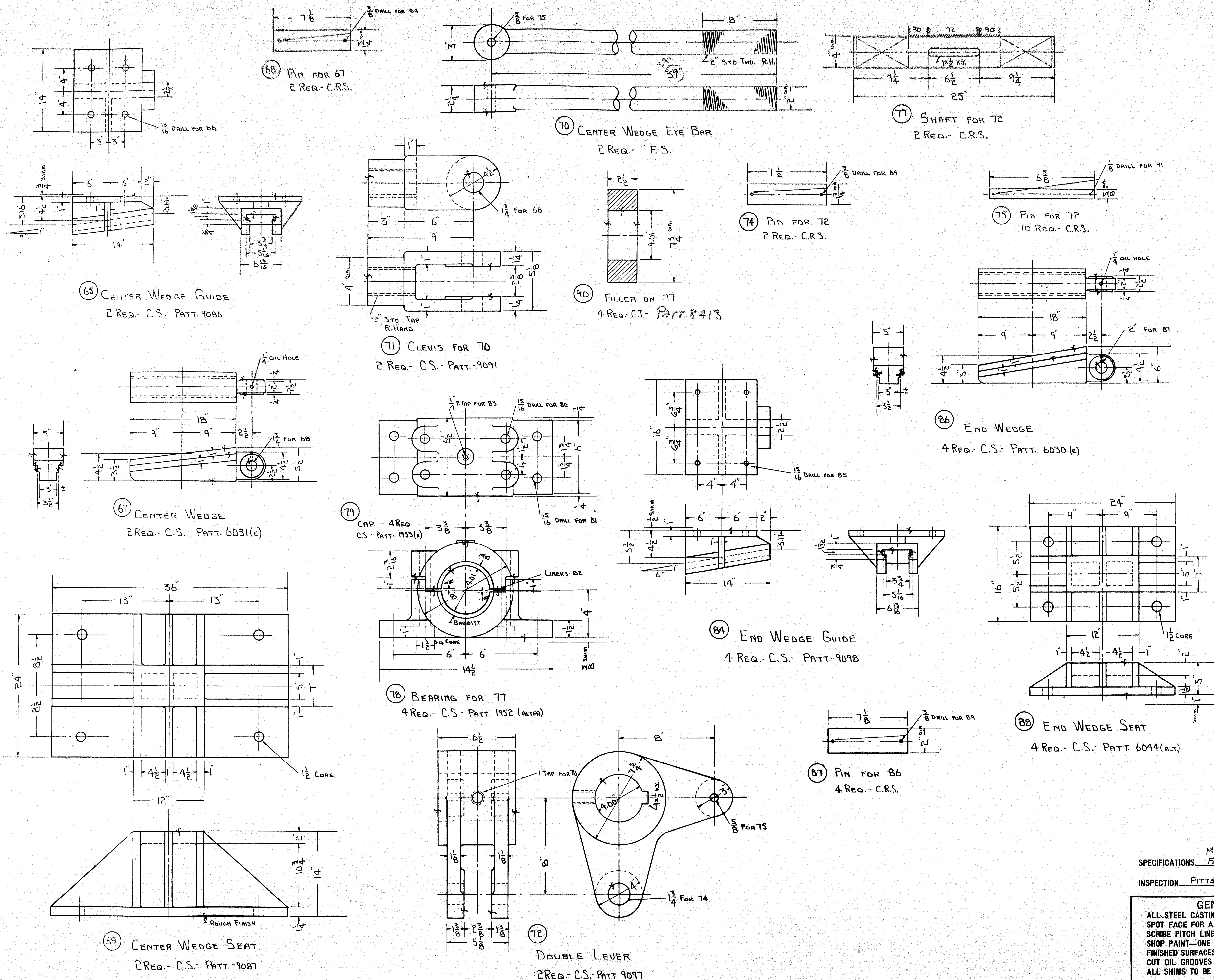


S.O. B-2141		BILL OF MATERIAL		DWG. 4242E
PC.	NAME	Q.	MATL. PATT.	REMARKS
30	BALANCE WHEEL BLOCK	2	C.S. 9072	
31	BOLT FOR 30	8	ST.	T.B. LIST
32	BOLT FOR 30	24	ST.	T.B. LIST
33	BALANCE WHEEL BEARING	6	C.S. 6037	E
34	BALANCE WHEEL	6	C.S. 6027	E
35	BUSHING	6	PH. BR.	
36	KEY SCREW FOR 35	12	ST.	1/4 x 3/8" HOLLOW S.S.
37	SHAFT	6	C.R.S.	
38	BEARING	1	C.S. 6035	ALT.
39	BOLT FOR 38	6	ST.	T.B. LIST
40	GEAR	1	C.S. 6024	E
41	SET SCREW FOR 40	1	ST.	1 x 2 1/2" HOLLOW Dg. P.T.
42	KEY FOR 40	2	ST.	1 x 1" GIB SEE KEY LIST
43	PINION	1	Fg.S.	
44				
45	BEVEL GEAR	1	C.S. 896	ALT.
46				
47	BEVEL PINION	1	Fg.S.	
48	KEY FOR 47	1	ST.	5/8 x 5" GIB SEE KEY LIST
49	SHAFT	1	Fg.S.	
50	PLATE	1	ST.	
51	SCREW FOR 50	3	ST.	5/8 x 1 1/2" LG. HEX. HD. MACH. SCREW
52	SHAFT	1	ST.	
53	BRACKET	1	C.S. 6036	E
54				
55	BEARING	1	C.S. 9068	
56	BOLT FOR 55	4	ST.	T.B. LIST
57	SET SCREW FOR 53	12	ST.	1/2 x 1 1/2" Sq. Hd. CUP POINT
58	WASHER FOR 51	3	ST.	5/8" LOCK WASHER
59	KEY FOR 43 & 45	1	ST.	1" x 1" x 12 1/2" SEE KEY LIST
60	LUB. FITTING FOR 37, 38, 39	8		ALEMITE GR. CUP-CAT. RM-1

MAINE STATE HIGHWAY SPEC.
SPECIFICATIONS FOR STEEL HIGHWAY BRIDGES
INSPECTION PITTSBURG TESTING LAB.

GENERAL NOTES
ALL STEEL CASTINGS & FORGINGS TO BE ANNEALED
SPOT FACE FOR ALL BOLT HEADS & NUTS
SCRIBE PITCH LINES ON BOTH SIDES OF ALL GEARS
SHOP PAINT—ONE COAT—
FINISHED SURFACES COATED—NO OX-ID GREASE
CUT OIL GROOVES IN ALL BEARINGS UNLESS NOTED
ALL SHIMS TO BE DRILLED

S.O. B-2141 CONTRACT
OPERATING MACHINERY
SOUTH PORT BRIDGE
FOR
STATE OF MAINE
LACKAWANNA STEEL CONST. CORP., CONT'R
PWA PROJECT NO. MAINE 1120 F.
THE EARLE GEAR AND MACHINE COMPANY
4707 TO 4715 STENTON AVENUE
PHILADELPHIA, PA.
DRAWN BY: GORER APPROVED BY: McHUGHWAY CORP. 2-22-35
CHECKED BY: R.P. REV. APPROV.
DATE OF PRINT: 2-24-34
SHEET 3 OF DWG. NO. 4242E FILE 30



S.O. B-2141		BILL OF MATERIAL		DWG. 4243 E-30	
P. No.	NAME	QTY.	MAT.	PATT.	REMARKS
65	CENTER WEDGE GUIDE	2	C.S.	9086	
66	PIN FOR 67	2	C.R.S.		T.B. LIST
67	CENTER WEDGE	2	C.S.	6031(e)	
68	CENTER WEDGE SEAT	2	C.S.	9087	
69	CENTER WEDGE EYE BAR	2	F.S.		
70	CLEVIS FOR 70	2	C.S.	9091	
71	CAP FOR 78	4	C.S.	1953(a)	
72	BEARING FOR 77	4	C.S.	1952(alt)	
73	PIN FOR 72	2	C.R.S.		KEY LIST
74	PIN FOR 72	2	C.R.S.		
75	PIN FOR 72	10	C.R.S.		
76	SET SCREW FOR 72	2	S.		1/2" HOLLOW CUP PT.
77	SHAFT FOR 72	2	C.R.S.		
78	END WEDGE	4	C.S.	6030(e)	
79	CAP FOR 78	4	C.S.	1953(a)	
80	CAP BOLTS FOR 78	16	S.		T.B. LIST
81	BASE BOLTS FOR 78	16	S.		T.B. LIST
82	LINERS FOR 78	8	FIN.		1/2" x 1/2" x 6"
83	LUB. FITTING FOR 79	4	S.		ALUMINUM RM-1
84	END WEDGE GUIDE	4	C.S.	9098	
85	BASE BOLT FOR 84	16	S.		T.B. LIST
86	END WEDGE	4	C.S.	6030(e)	
87	PIN FOR 86	4	S.		
88	END WEDGE SEAT	4	C.S.	6044(alt)	
89	COTTER PIN FOR 75	16	S.		1/2" x 3"
90	FILLER ON 77	4	C.I.	8413	
91	COTTER PIN FOR 75	20	S.		1/2" x 1/4"
92	NUT FOR 70	2	S.		2" STD.

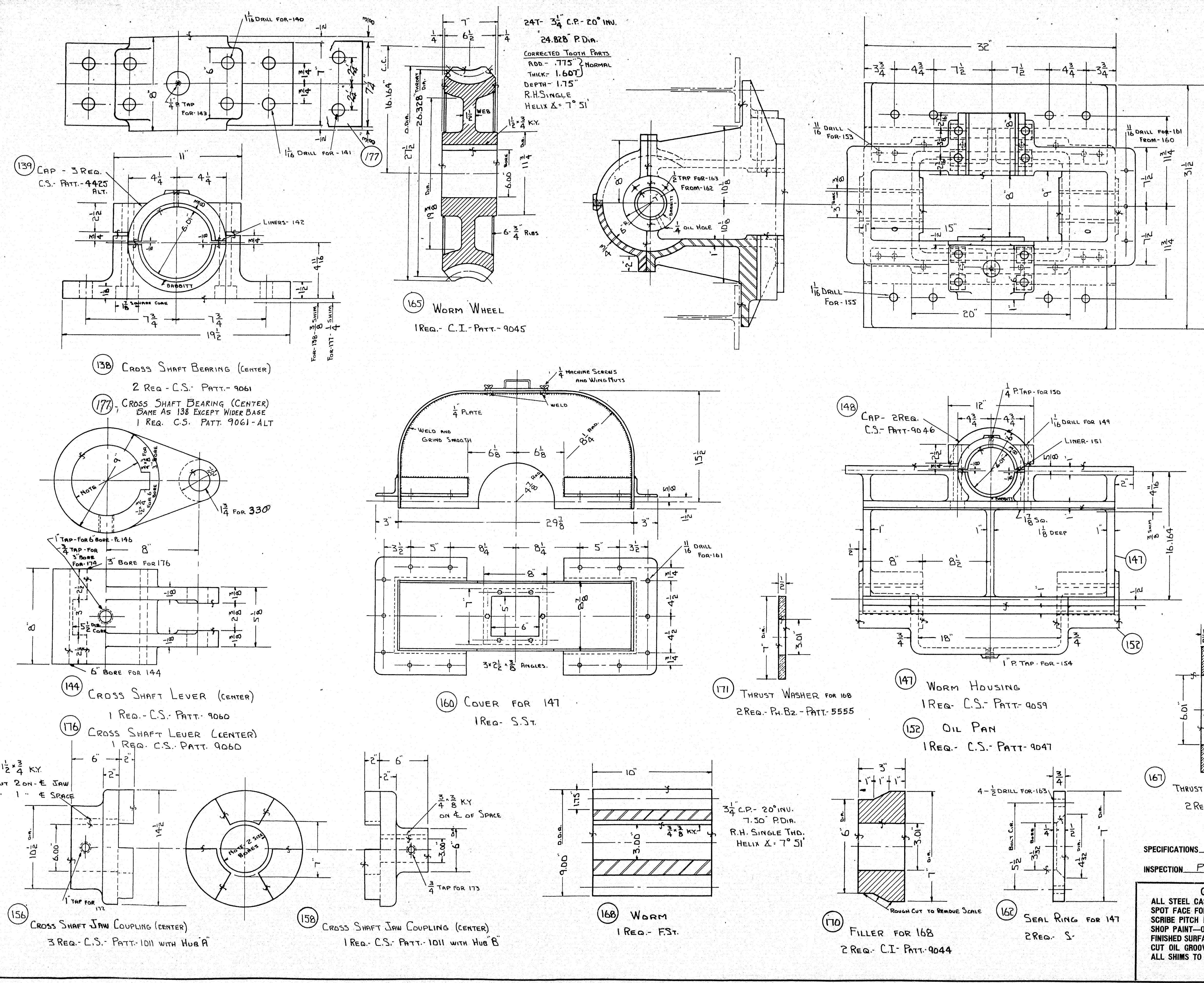
MAINE STATE HIGHWAY SPEC'S.
FOR STEEL HIGHWAY BRIDGES
INSPECTION PITTSBURG TESTING LAB.

GENERAL NOTES
ALL STEEL CASTINGS & FORGINGS TO BE ANNEALED
SPOT FACE FOR ALL BOLT HEADS & NUTS
SCRIBE PITCH LINES ON BOTH SIDES OF ALL GEARS
SHOP PAINT—ONE COAT—
FINISHED SURFACES COATED—NO OX-ID GREASE
CUT OIL GROOVES IN ALL BEARINGS UNLESS NOTED
ALL SHIMS TO BE DRILLED

S.O. B-2141 CONTRACT
OPERATING MACHINERY
SOUTHPORT BRIDGE
FOR
STATE OF MAINE
LOCKSWAIN STEEL CONST. CORP. CONTRACTOR
P.W.A. PROJECT NO. MAINE 1120-F
THE EARLE GEAR AND MACHINE COMPANY
4707 TO 4715 STENTON AVENUE
PHILADELPHIA, PA.
DRAWN BY DBS. - 1-4-39 APPROVED BY ME. HIGHWAY COMM. - 1-9-39
CHECKED BY R.E. 1-2-39 REV. APPROV.
DATE OF PRINT 2-24-39 REV. APPROV.
SHEET 4 OF DWG. NO. 4243 E-30 FILE NO. 30

OK FOR PATTS. 1-6-39 30-25

SD-B-2141		BILL OF MATERIAL		DWG. 4245 E 30	
P. No.	NAME	QTY.	MTL.	PATT.	REMARKS
138	CROSS SHAFT BRG. (CENTER)	2	C.S.	9061	
139	CAP FOR 138	3	C.S.	4425(ALT)	
140	CAP BOLT FOR 139	12	S.		T.B. LIST
141	BASE BOLT FOR 138	12	S.		T.B. LIST
142	LINERS FOR 138	6	Fibre		2 1/4" x 8"
143	LUB. FITTING FOR 139	3	S.		ALUMITE - RM-1
144	CROSS SHAFT LEVER (CENTER)	1	C.S.	9060	LARGE BORE
145	KEY FOR 144	1	S.		KEY LIST
146	SET SCREW FOR 144	1	S.		1" x 1/2" HOLLOW CUP PT.
147	WORM HOUSING	1	C.S.	9059	
148	CAP FOR 147	2	C.S.	9046	
149	CAP BOLTS FOR 148	8	S.		T.B. LIST
150	LUB. FITTING FOR 148	2	S.		ALUMITE - RM-1
151	LINERS FOR 148	4	Fibre		2 1/4" x 8"
152	OIL PAN FOR 147	1	C.S.	9047	
153	FLANGE BOLT FOR 152	16	S.		T.B. LIST
154	PIPE PLUG FOR 152	1	S.		1" STD.
155	BASE BOLT FOR 147	8	S.		T.B. LIST
156	CROSS SHAFT JAW COUPLING	3	C.S.	1011 WITH HUB A	
157	KEY FOR 156	3	S.		KEY LIST
158	CROSS SHAFT JAW COUPLING	1	C.S.	1011 WITH HUB B	
159	KEY FOR 158	1	S.		KEY LIST
160	COVER FOR 147	1	S.S.		
161	BOLT FOR 160	14	S.		3/8" x 2 1/2" HEX. HD. MACH. BOLT 1 NUT - 1 L.W.
162	SEAL RING FOR 147	2	S.		
163	BOLT FOR 162	8	S.		1/2" x 2" HEX. HEAD TAP NO. NUT.
164	PACKING FOR 147				2 FLAX
165	WORM WHEEL	1	C.I.	9045	
166	KEY FOR 165	1	S.		KEY LIST
167	THRUST WASHER FOR 165	2	Ph.Bz.	4545	
168	WORM	1	F.S.		
169	KEY FOR 168	1	S.		KEY LIST
170	FILLER FOR 168	2	C.I.	9044	
171	THRUST WASHER FOR 168	2	Ph.Bz.	5555	
172	SET SCREW FOR 156	3	S.		1" x 2" HOLLOW CUP PT.
173	SET SCREW FOR 158	1	S.		2 1/4" x 1/2" HOLLOW CUP PT.
174	SET SCREW FOR 176	1	S.		4" x 3" HOLLOW CUP PT.
175	KEY FOR 176	1	S.		KEY LIST
176	CROSS SHAFT LEVER (CENTER)	1	C.S.	9060	SMALL BORE
177	CROSS SHAFT BEARING (CENTER)	1	C.S.	9061 ALT.	SAME AS 138 EXCEPT WIDER BASE



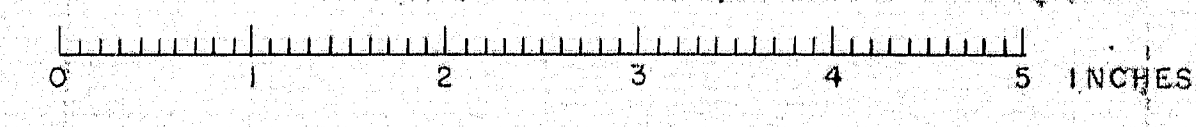
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FOR STEEL HIGHWAY BRIDGES

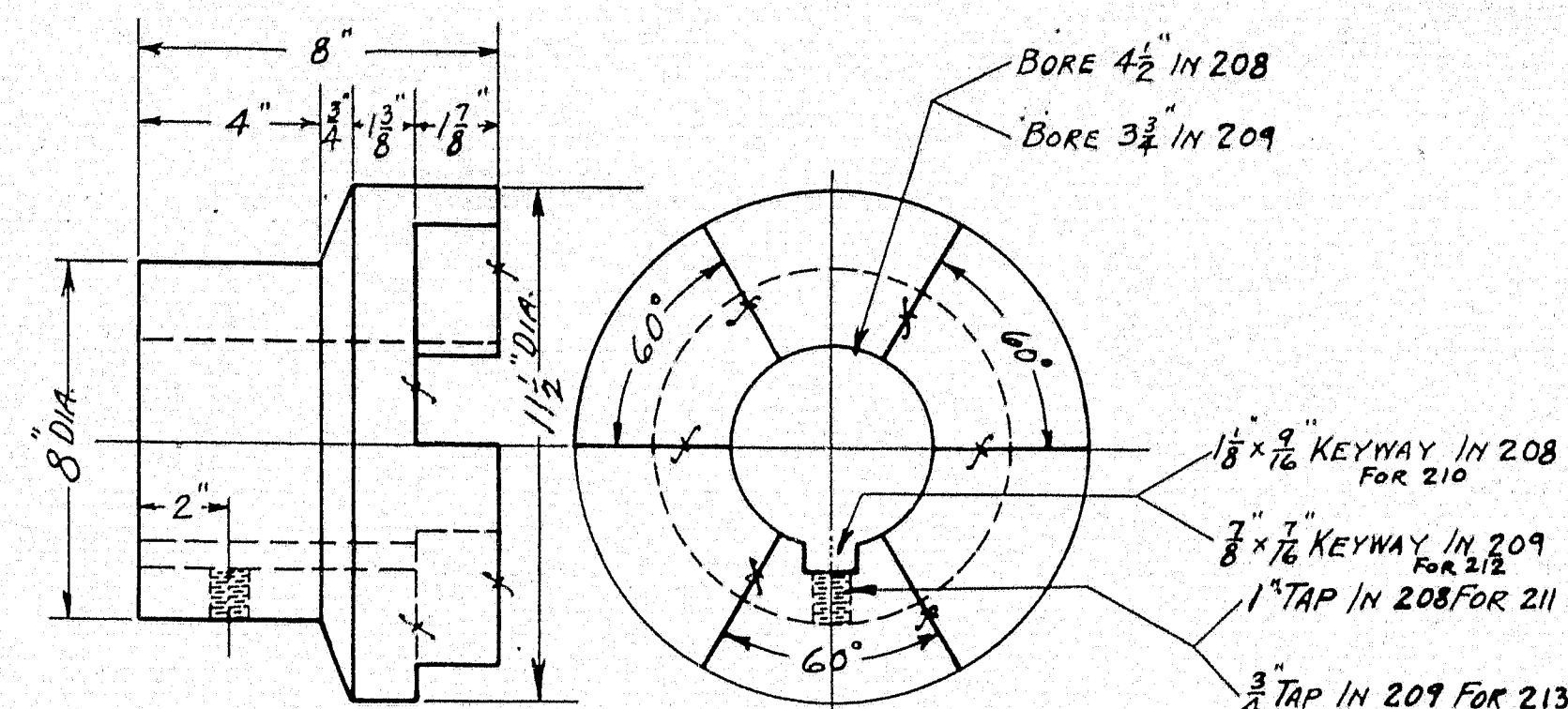
INSPECTION PITTSBURG TESTING LAB.

GENERAL NOTES
ALL STEEL CASTINGS & FORGINGS TO BE ANNEALED
SPOT FACE FOR ALL BOLT HEADS & NUTS
SCRIBE PITCH LINES ON BOTH SIDES OF ALL GEARS
SHOP PAINT - ONE COAT -
FINISHED SURFACES COATED - NO-OX-ID GREASE
OUT OIL GROOVES IN ALL BEARINGS UNLESS NOTED
ALL SHIMS TO BE DRILLED

S.O.B. 2141 CONTRACT
OPERATING MACHINERY
SOUTHPORT BRIDGE
FOR
STATE OF MAINE
LACKAWANNA STEEL CONST. CORP. CONTRACTOR
P.W.A. PROJECT NO. MAINE 1120 F
THE EARLE GEAR AND MACHINE COMPANY
4707 TO 4715 STENTON AVENUE
PHILADELPHIA, PA.

DRAWN BY O.B.S. 1-12-39 APPROVED BY ME. HIGHWAY COMM. - P-21-39
CHECKED BY J.E.B. REV. APP'D.
DATE OF PRINT 2-8-39 REV. APP'D.
SHEET 6 OF DWG. NO. 4245 E FILE NO. 30





S.O. B-2141		BILL OF MATERIAL			DWG. 4246	
PC.	NAME	Q.	MATL.	PATT.	REMARKS	
180	LEVER	2	C.S.	1709.	E. 4 1/2" BORE	
181	1" SET SCREW FOR 217/180	6	S.		2" UNDER HD. SQ. HD. CUP POINT	
182	KEY FOR 180	2	S.		1 1/2" x 1 1/8" SEE KEY LIST	
183	LEVER	2	C.S.	1709	E. 3 3/4" BORE	
184	3/8" SET SCREW FOR 183	2	S.		2 1/2" UNDER HD. SQ. HD. CUP PT.	
185	KEY FOR 183	2	S.		3/4" x 7/8" SEE KEY LIST	
186	BEARING	4	C.S.	9870	E	
187	CAP	4	C.S.	9871	E	
188	LUB. FITT. FOR 187-200-201-216	20			ALEMITE GR. CUP - CAT. R.M.-1.	
189	BOLTS FOR 187	16	S.		T.B. LIST	
190	BOLTS FOR 186	16	S.		T.B. LIST	
191	LINER FOR 186	8	FIBRE		1 1/2" x 1 1/2" x 7 1/2" LG.	
192	LEVER	1	C.S.	9034	WITH HUBS "A"	
193	KEY FOR 192	1	S.		1 1/2" x 1 1/8" GIB SEE KEY LIST	
194	LEVER	4	C.S.	9034	WITH HUBS "B"	
195	KEY FOR 194	4	S.		1 1/2" x 1 1/8" GIB SEE KEY LIST	
196	1" SET SCREW FOR 192-194	5	S.		2 1/2" UNDER HD. SQ. HD. CUP PT.	
197	CLEVIS PIN (1 1/2" DIA) FOR 204-198	10	S.		6 LG. FOR 204. 5 1/2" LG. FOR 198	
198	CLEVIS FOR 194	4	S.		MAINE STEEL, INC. #4	
199	COTTER FOR 197-232	28	S.		3/8" x 2 1/2" LG.	
200	BEARING	10	C.S.	9036	E. - 5 1/4" CORE	
201	BEARING	4	C.S.	9036	E. - 4 1/2" CORE	
202	BOLTS FOR 200-201	28	S.		T.B. LIST	
203	BOLTS FOR 200-201	56	S.		T.B. LIST	
204	CLEVIS FOR 192	4	S.		MAINE STEEL, INC. #4	
205	COLLAR FOR 215	2	S.			
206						
207	3/8" SET SCREW FOR 205	2	S.		2 1/2" UNDER HD. SQ. HD. CUP PT.	
208	HALF JAW COUPLG.	2	C.S.	9033	E 4 1/2" BORE	
209	HALF JAW COUPLG.	2	C.S.	9033	E 3 1/2" BORE	
210	KEY FOR 208	2	S.		1 1/2" x 1 1/8" SEE KEY LIST	
211	1" SET SCREW FOR 208	2	S.		1 1/2" UNDER HD. SQ. HD. CUP PT.	
212	KEY FOR 209	2	S.		3/8" x 7/8" SEE KEY LIST	
213	3/4" SET SCREW FOR 209	2	S.		1 1/2" UNDER HD. SQ. HD. CUP PT.	
214	SHAFT	2	S.			
215	SHAFT	2	S.			
216	COLLAR BEARING	2	C.S.	1416	E	
217	END WEDGE LEVER	4	C.S.	7169	E	
218	BOLT FOR 216	8	S.		T.B. LIST	
219	KEY FOR 217	4	S.		1 1/2" x 1 1/8" GIB SEE KEY LIST	
220	LEVER	1	C.S.	8668	E	
221	3/8" SET SCREW FOR 220	1	S.		1 1/2" UNDER HD. SQ. HD. CUP POINT	
222	KEY FOR 220	1	S.		1 1/2" x 1 1/8" SEE KEY LIST	
223	LEVER	1	C.S.	1654	E	
224	3/4" SET SCREW FOR 223	1	S.		2" UNDER HD. SQ. HD. CUP PT.	
225	KEY FOR 223	1	S.		1 1/2" x 1 1/8" SEE KEY LIST	
226	CLEVIS FOR 220-223	2	S.		MAINE STEEL, INC. #3 1/2	
227	CLEVIS PIN FOR 226	2	S.		1 DIA. x 4 1/2" LG.	
228	COTTER FOR 227	4	S.		3/8" x 1 1/2" LG.	
229						
230						
231						
232	PIN FOR 217	4	S.		1 1/2" DIA. x 6 1/2" LG.	

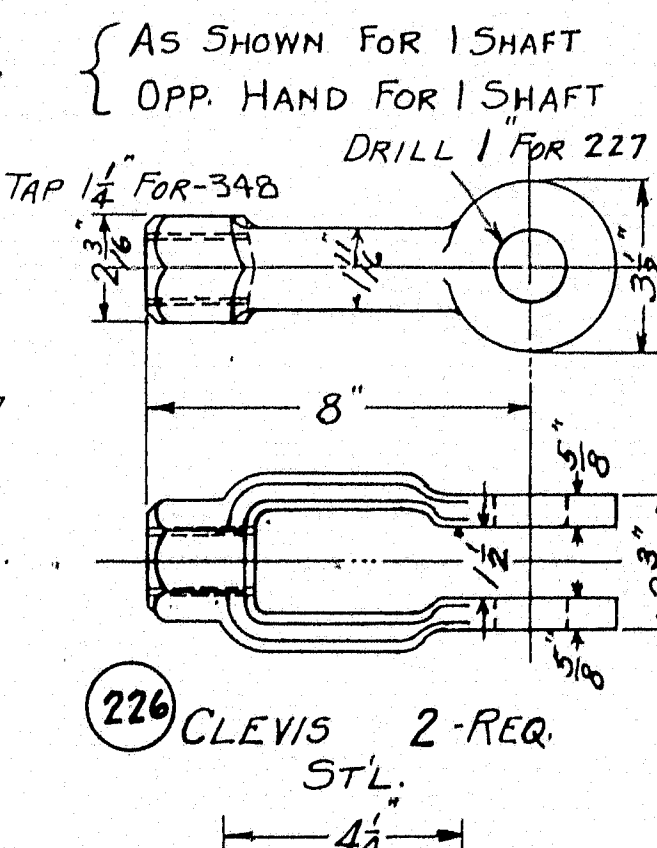
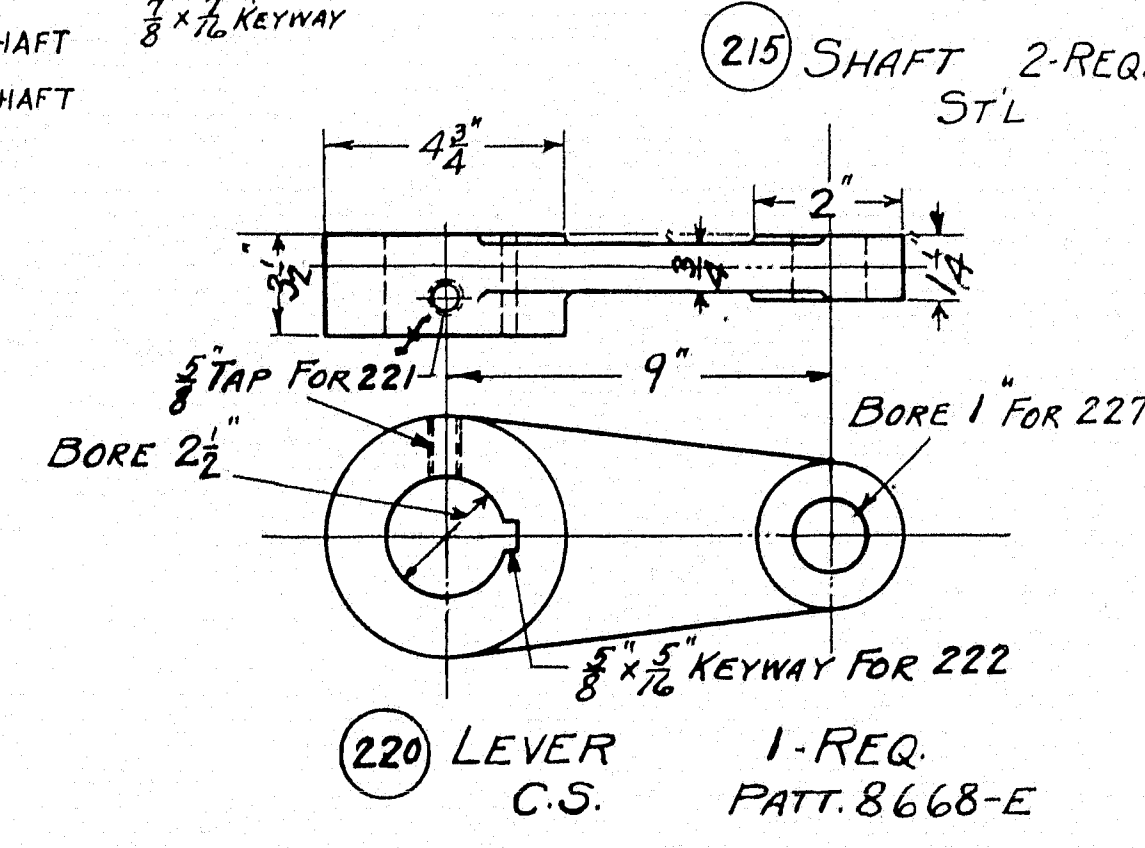
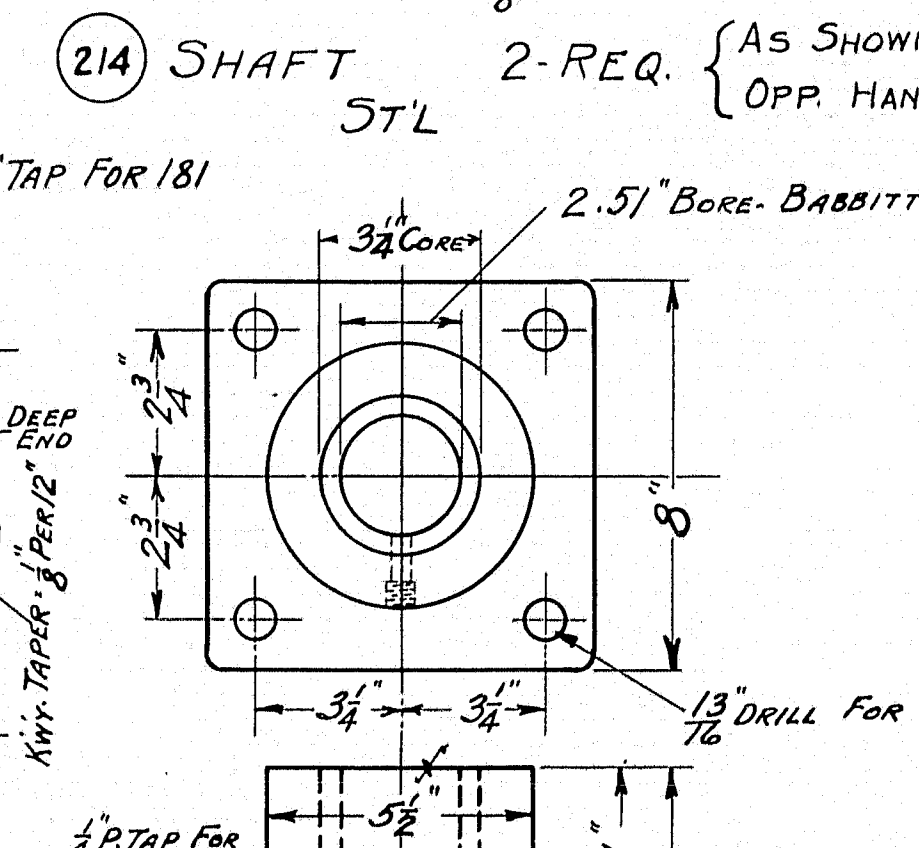
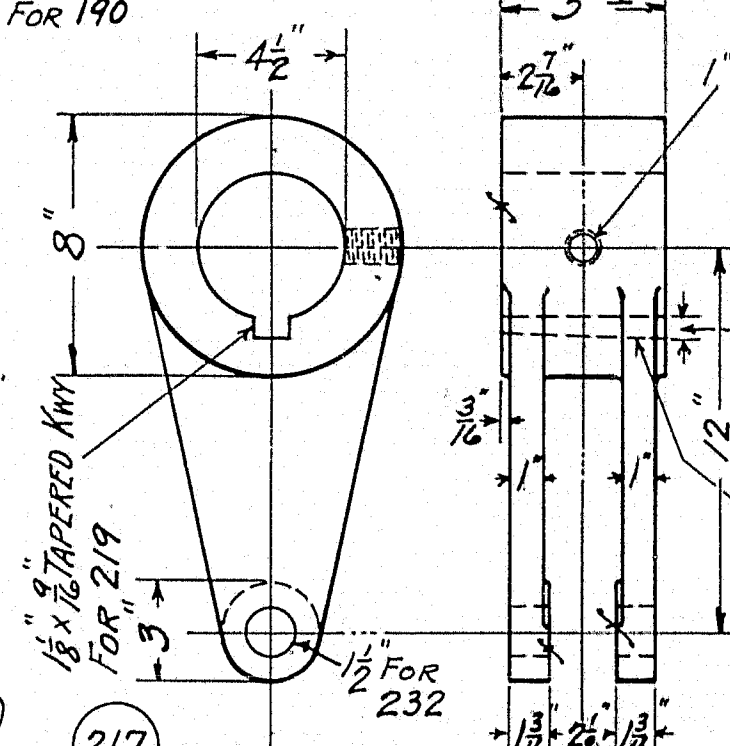
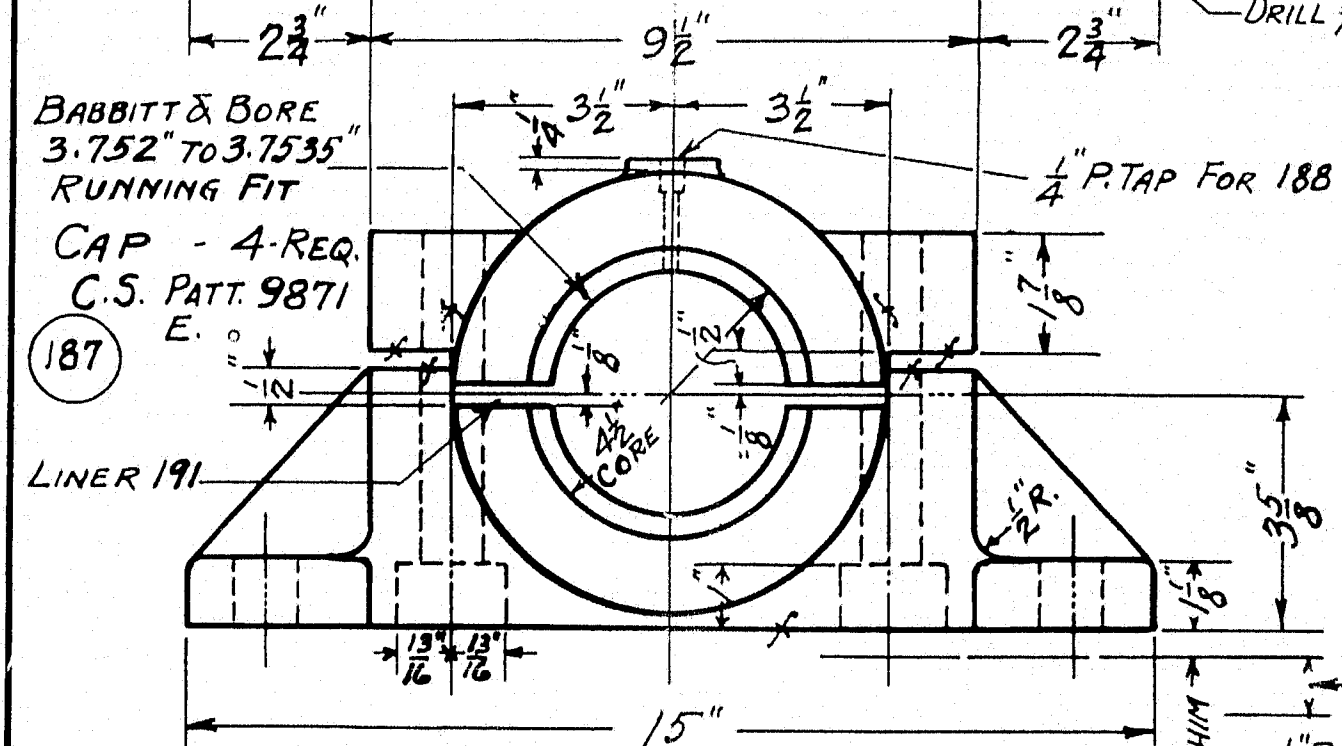
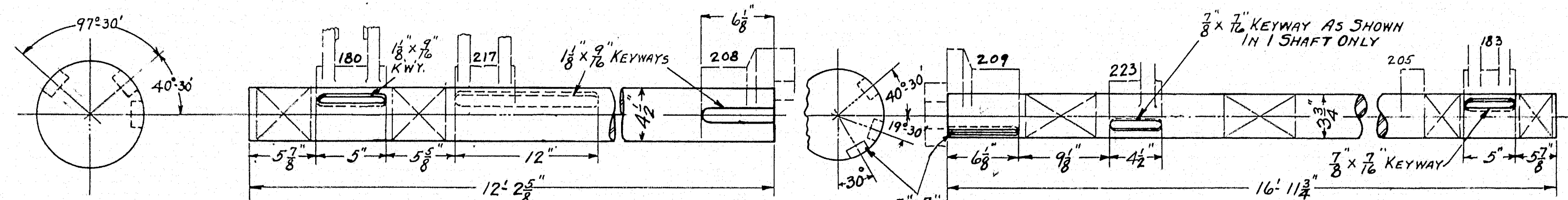
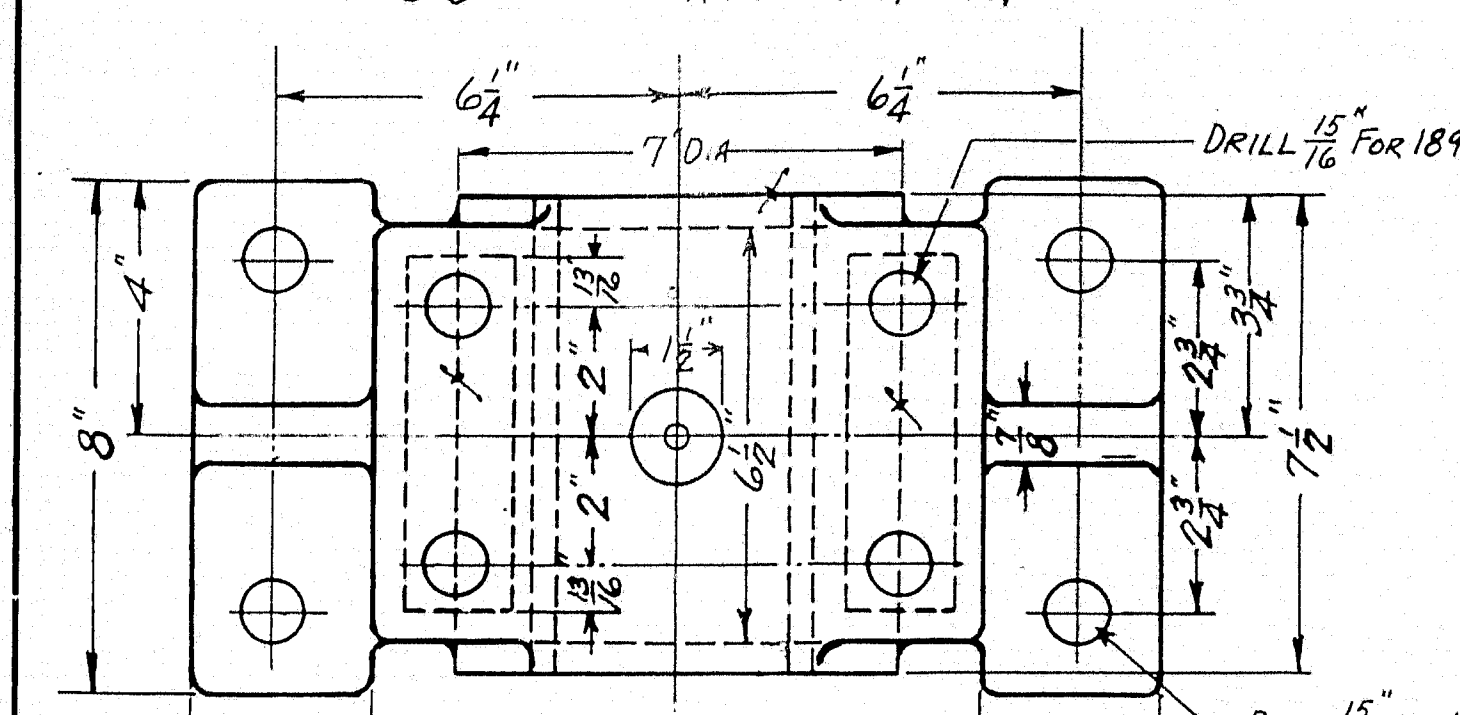
180 LEVER 2-REQ.
C.S. PATT. 1709 - 4" CORE -

183 LEVER (SAME AS 180 EXCEPT) 2-REQ.
C.S. BORE, KEYWAY & TAP PATT. 1709 - 3 1/2" CORE -

(200) BEARING 10-REQ.
 C.S. PATT. 9036 - 5 $\frac{1}{4}$ " CORE - E
 (201) BEARING (SAME AS EXCEPT CORE & BORE) 4-REQ.
 C.S. PATT. 9036 - 4 $\frac{1}{2}$ " CORE - E

(208) HALF JAW COUPLING 2 REQ.
C.S. PATT. 9033

(209) HALF JAW COUPLING (SAME AS 208 EXCEPT) 2 REQ.
C.S. (BORE, KEYWAY & TAP) PATT. 9033

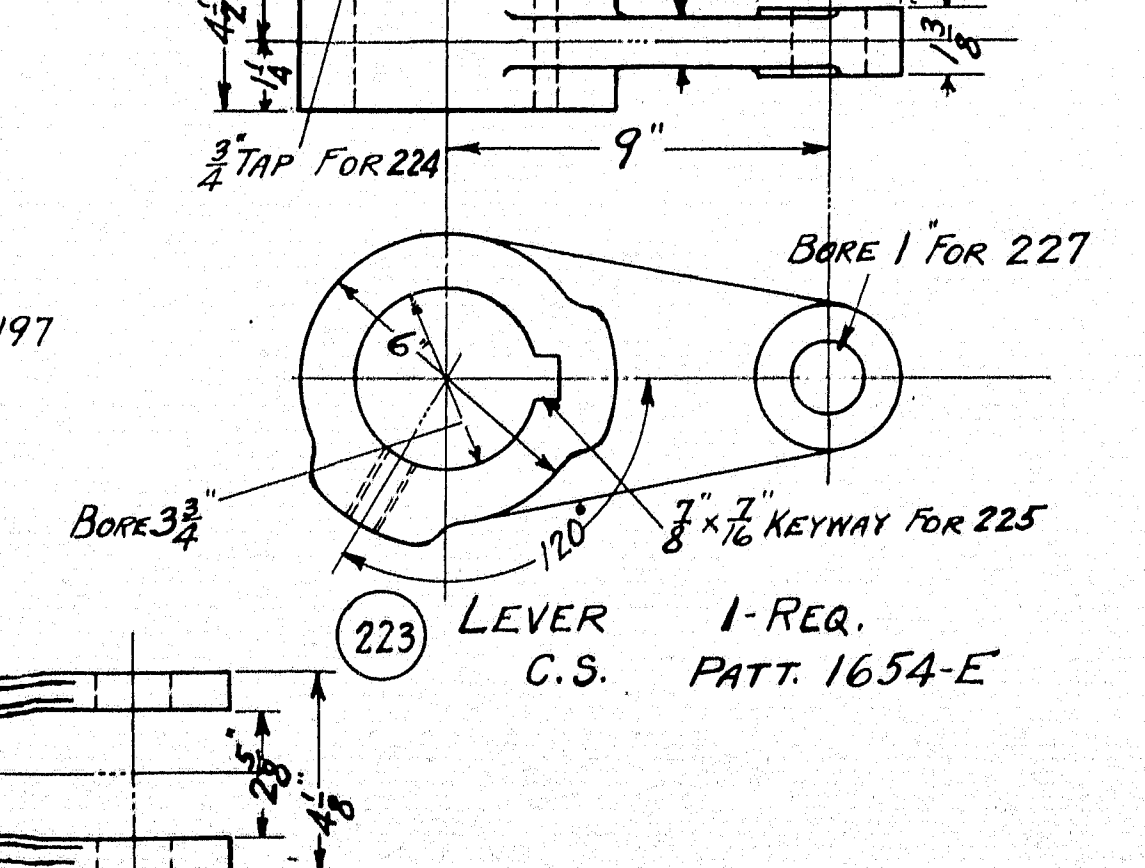
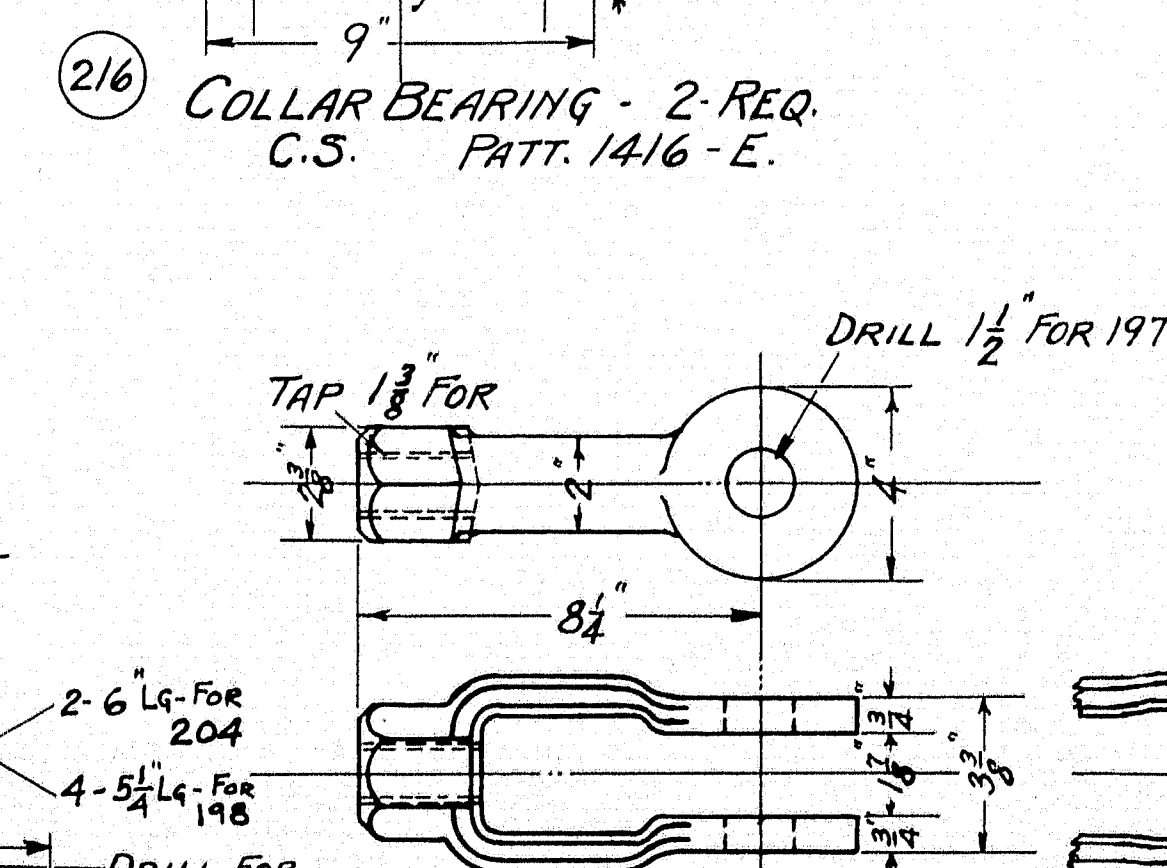
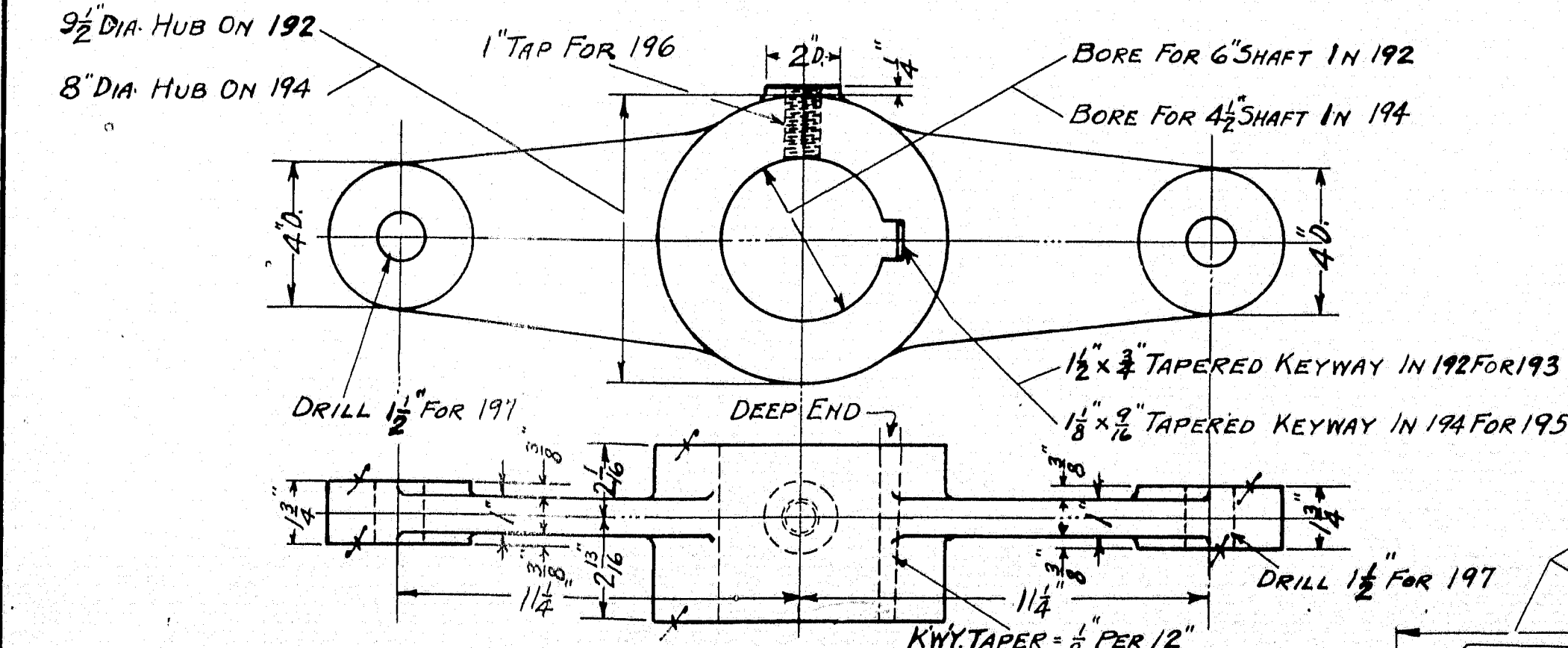


186 BEARING 4-REQ. END WEDGE LEVER 4-REQ.
C.S. PATT. 987D-E C.S. - PATT. 7169-E

2/16

COLLAR BEARING - 2-REQ
C.S. PAT. 1416-E

DRILL FOR
1/4" COTTER
228 CLEVIS PIN - 2-REQ.
ST'L.



227 STL.

6 1/2"

1/2"

3/8" DRILL
For 195

232 PIN FOR 217 - 4-REQ.
STL.

192 LEVER 1-REQ.
C.S. PATT 9034 WITH HUBS "A"

194 LEVER (SAME AS EXCEPT 4-REQ.
C.S. HUB, BORE & KEYWAY) PATT 9034 WITH HUBS "B"

197

CLEVIS PIN - 10-REQ.
ST'L.

CLEVIS 4-REQ.
 (198) ST'L. FOR 194
 MAINE STEEL, IN
 SAM

CLEVIS 4-REQ
ST'L FOR 192 204
NG. CLEVIS NUT #4
E AS 198 EXCEPT GRIP

MAINE STATE HIGHWAY SPEC'S.
SPECIFICATIONS FOR STEEL HIGHWAY BRIDGES
INSPECTION PITTSBURG TESTING LAB.

GENERAL NOTES

ALL STEEL CASTINGS & FORGINGS TO BE ANNEALED
SPOT FACE FOR ALL BOLT HEADS & NUTS
SCRIBE PITCH LINES ON BOTH SIDES OF ALL GEARS
SHOP PAINT—ONE COAT—
FINISHED SURFACES COATED— NO-OX-ID GREASE
CUT OUT GROOVES IN ALL BEARINGS UNLESS NOTED
ALL SHIMS TO BE DRILLED

S. O. B-2141 CONTRACT.

OPERATING MACHINERY.

SOUTHPORT BRIDGE

FOR

STATE OF MAINE

LACKAWANNA STEEL CONST. CORP.-CONTRACTOR

PWA-PROJECT N° MAINE 1120 F

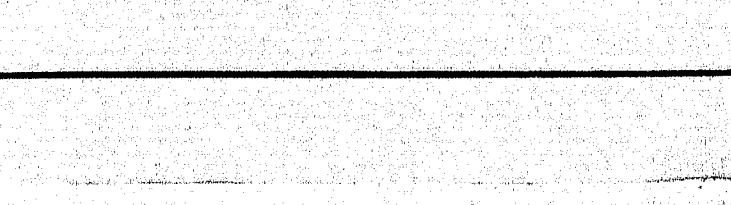
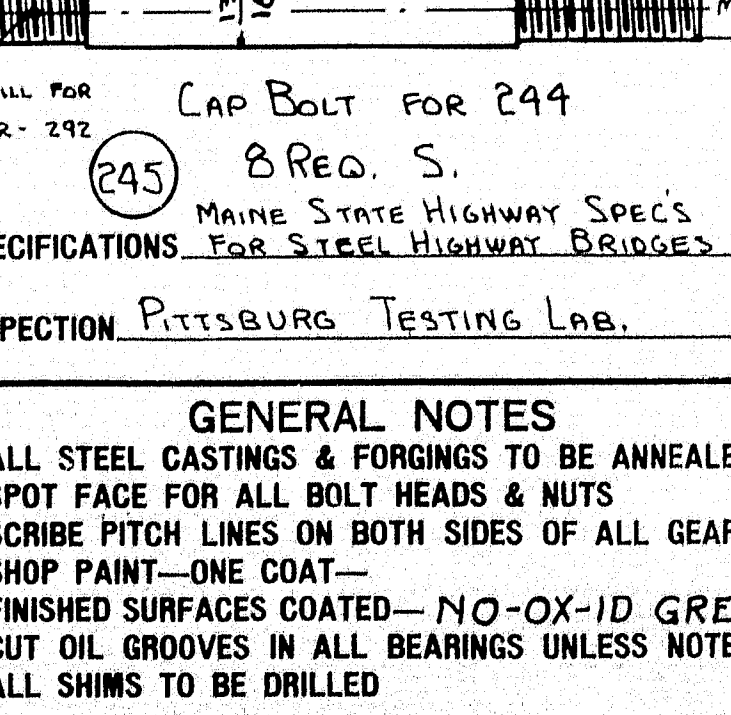
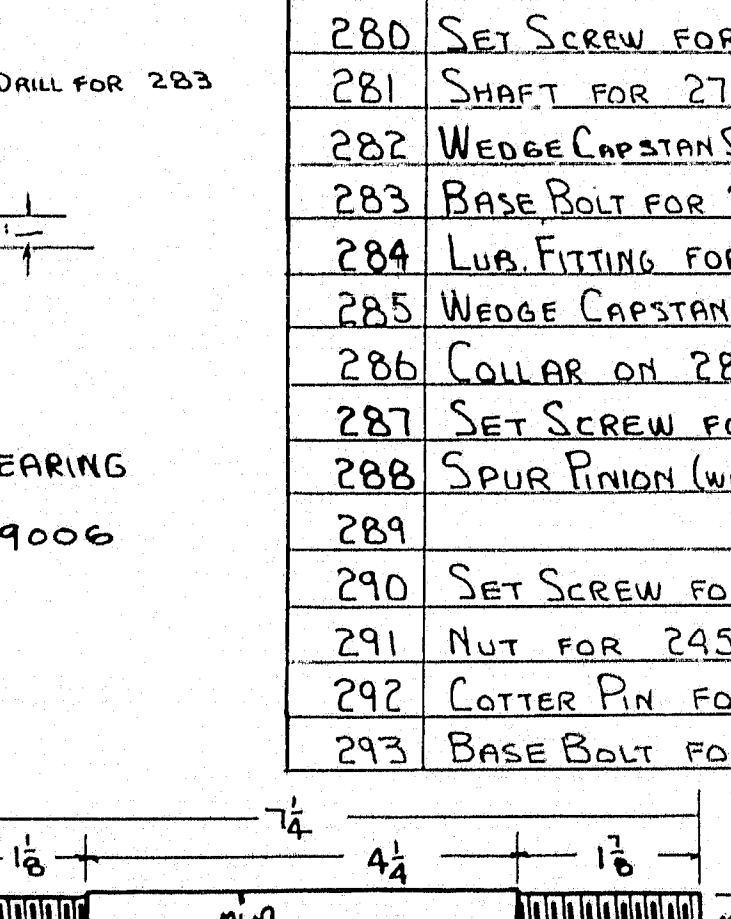
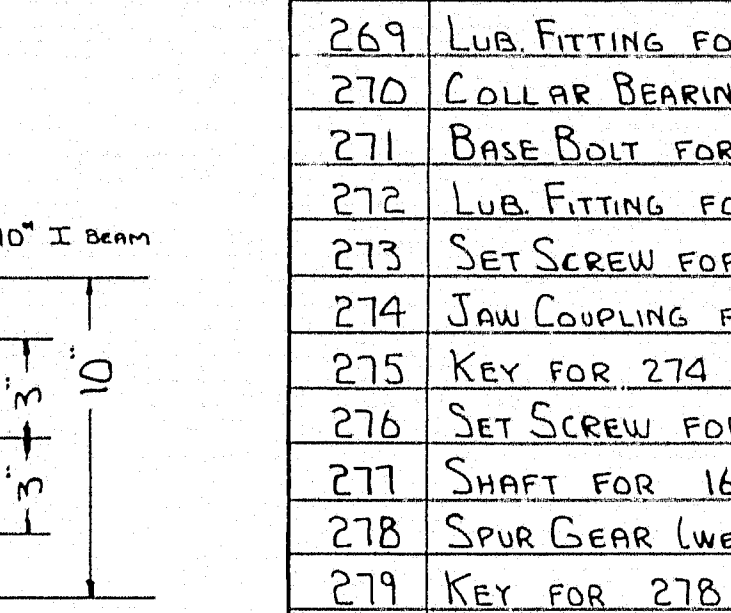
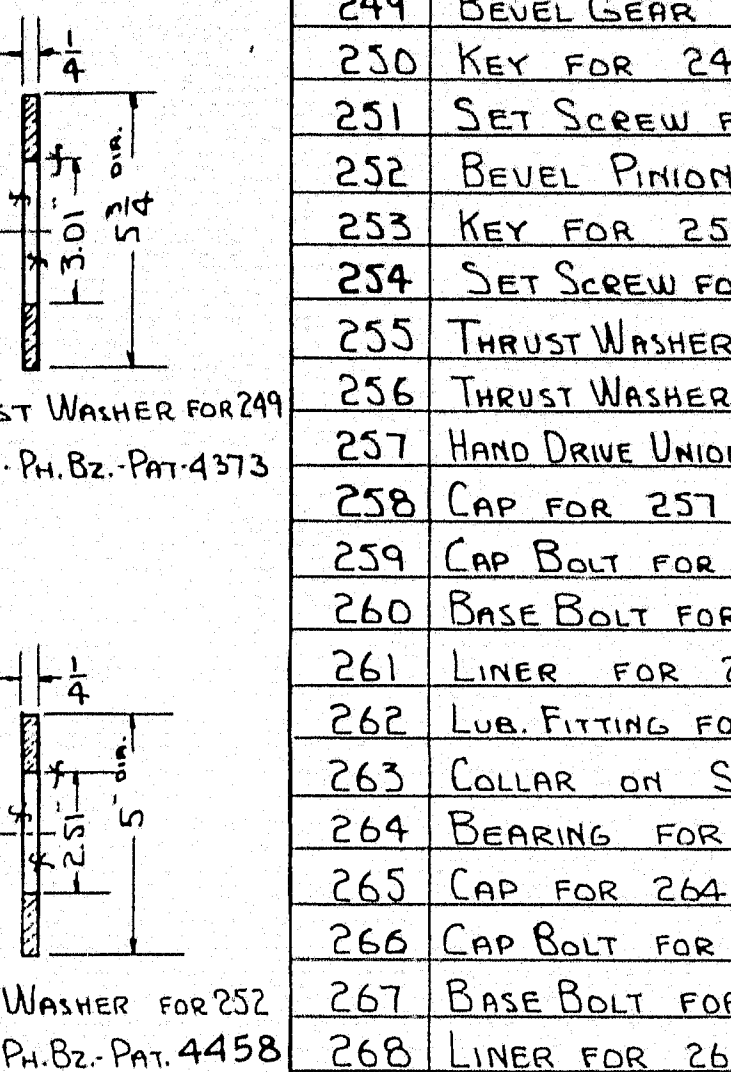
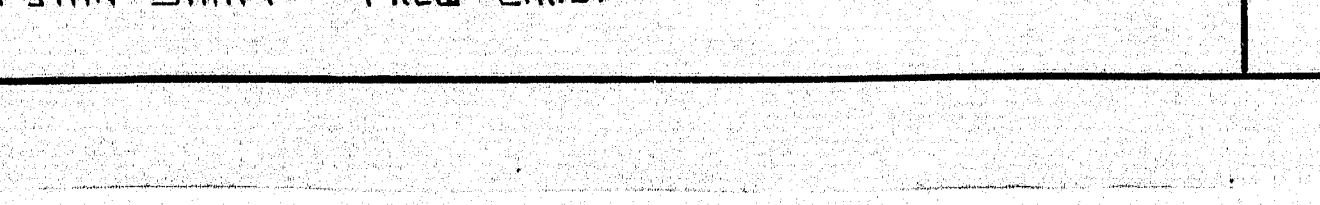
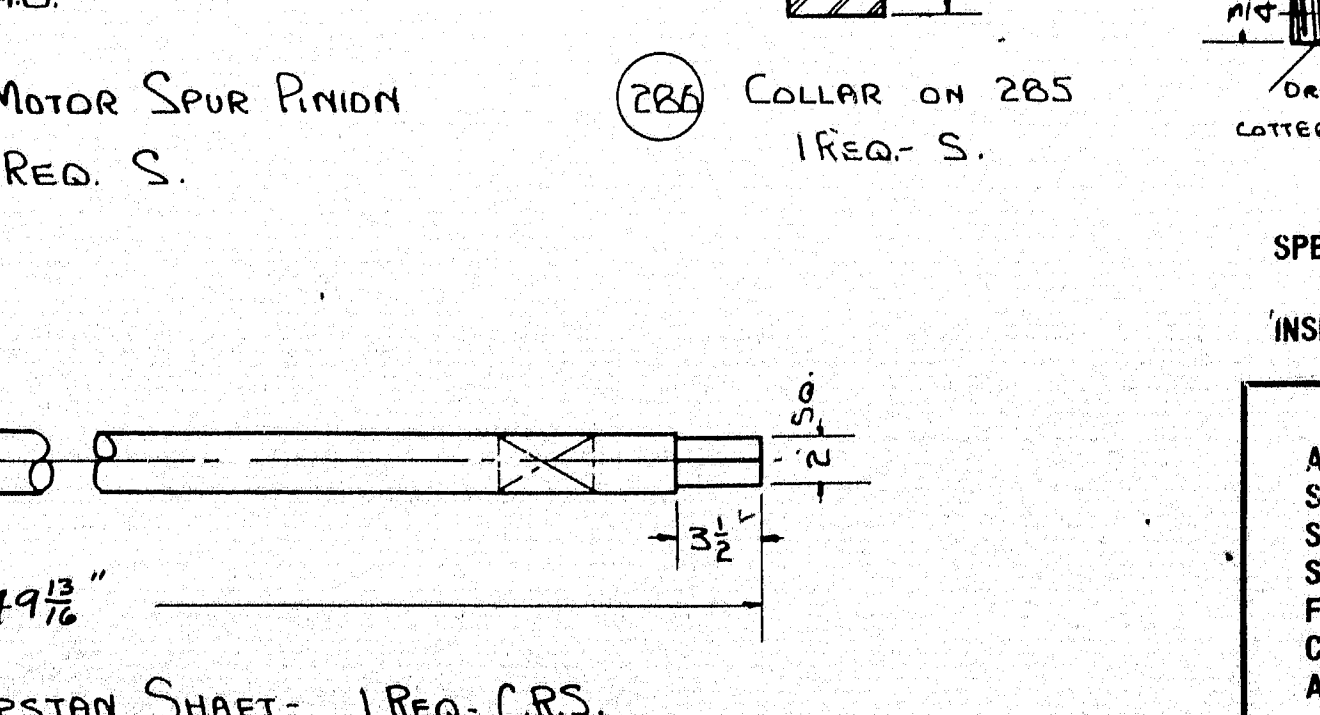
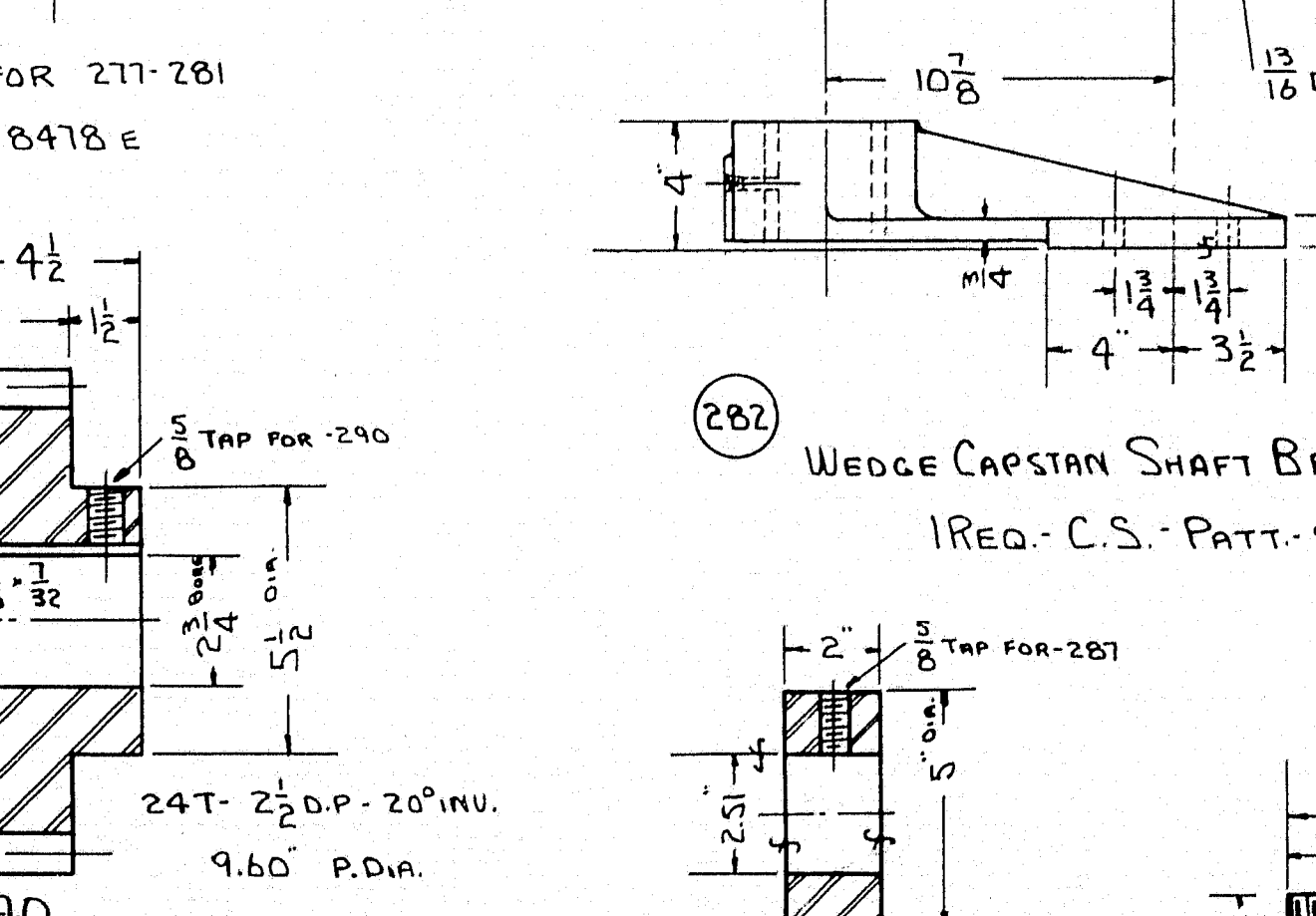
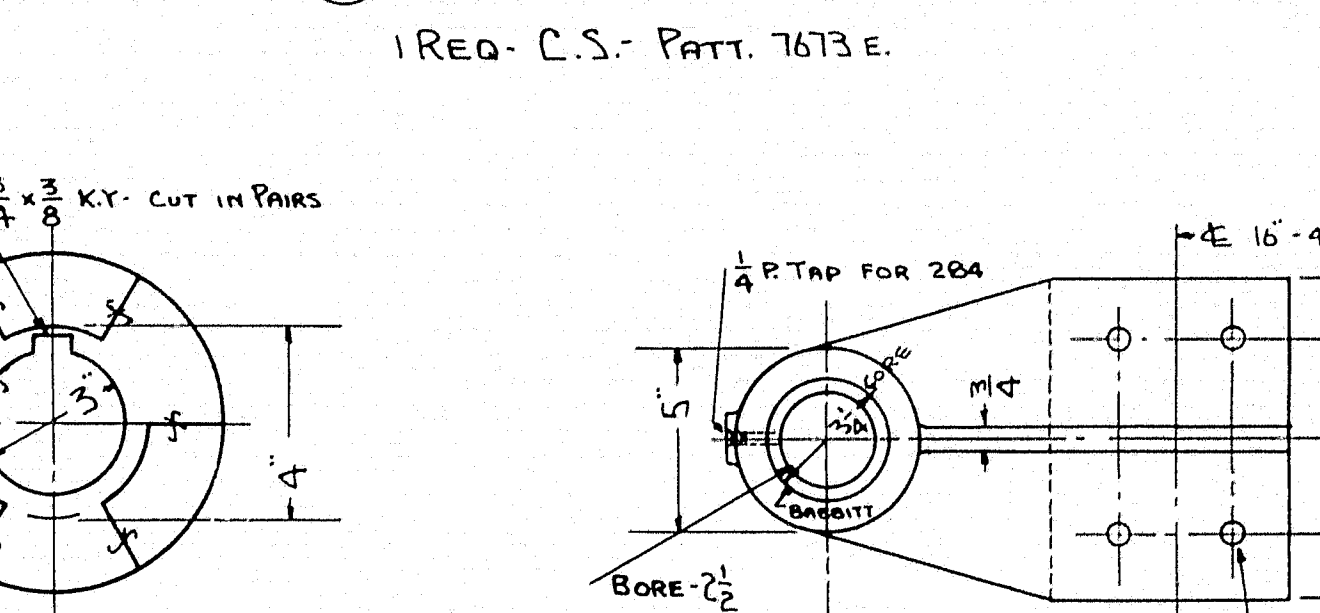
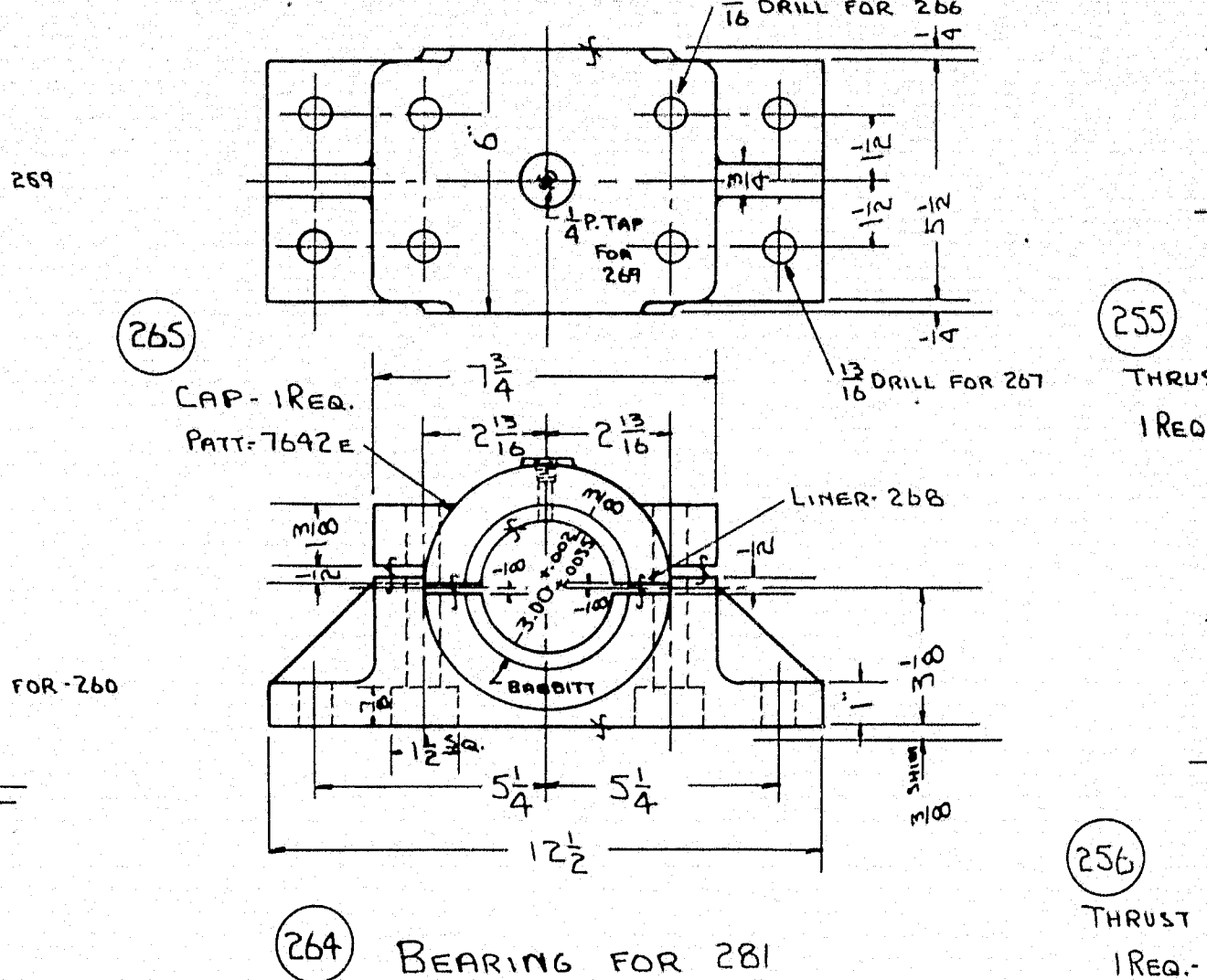
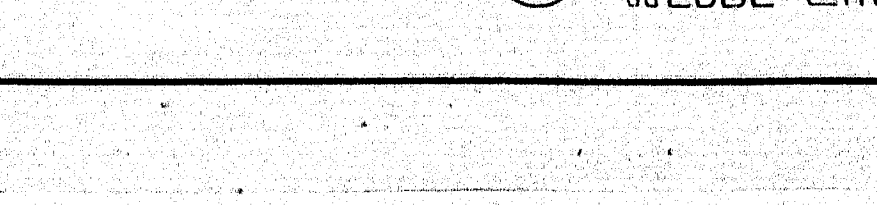
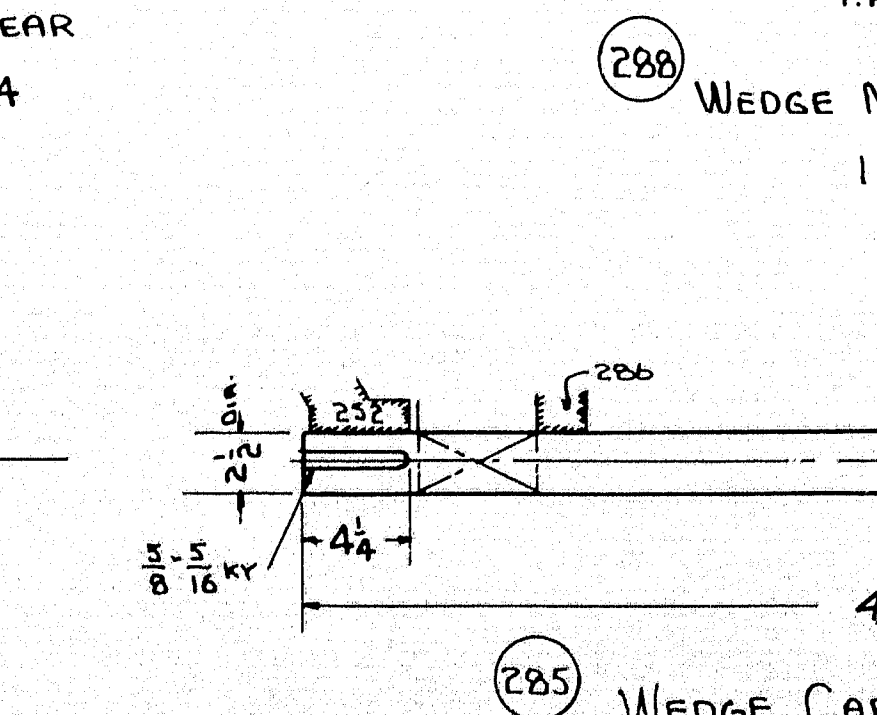
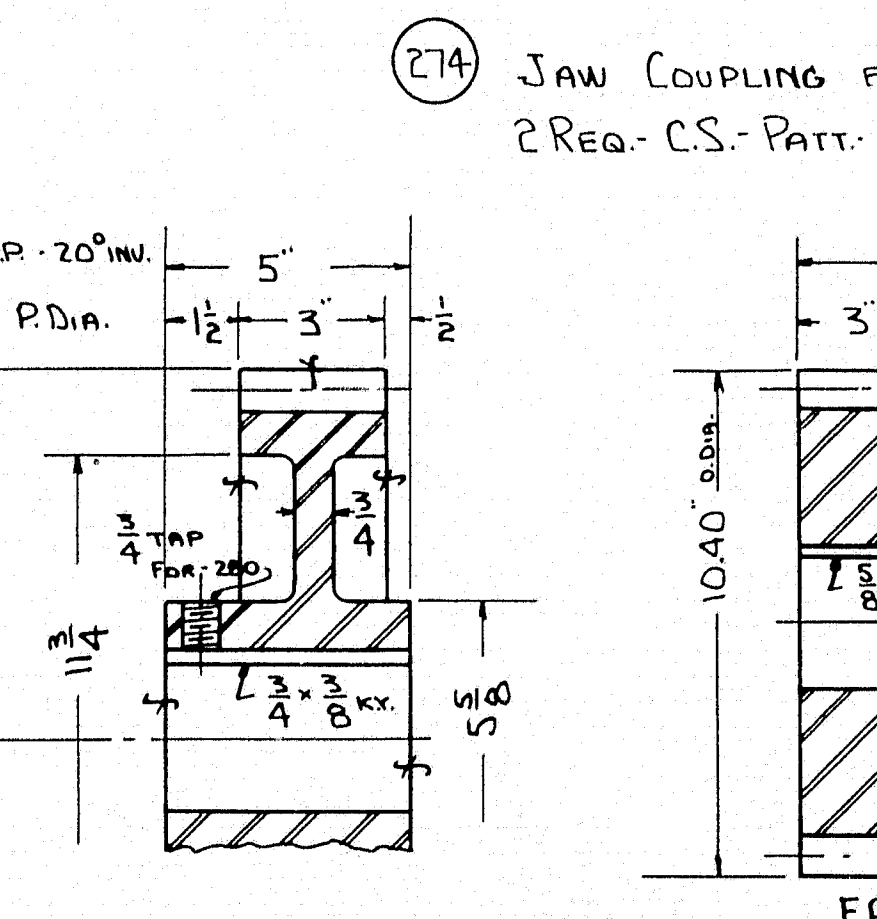
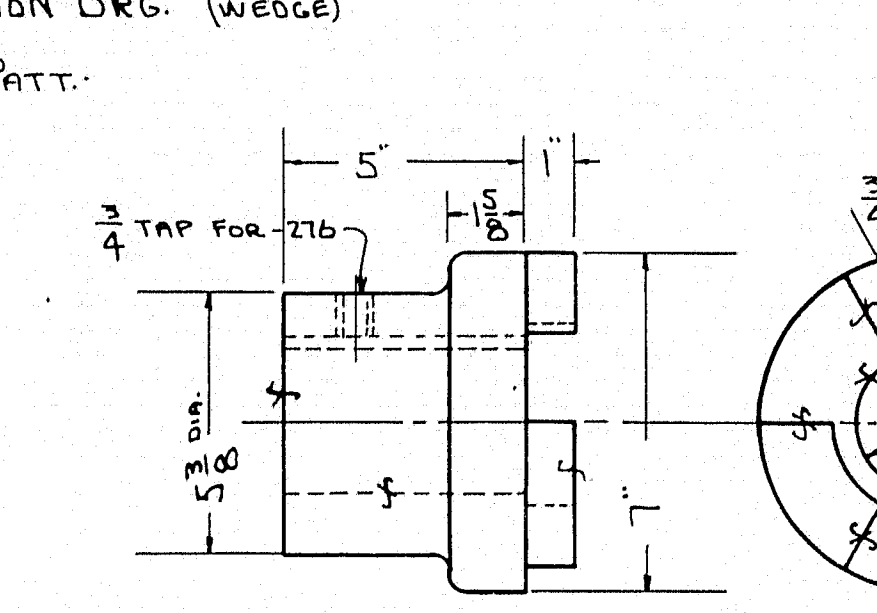
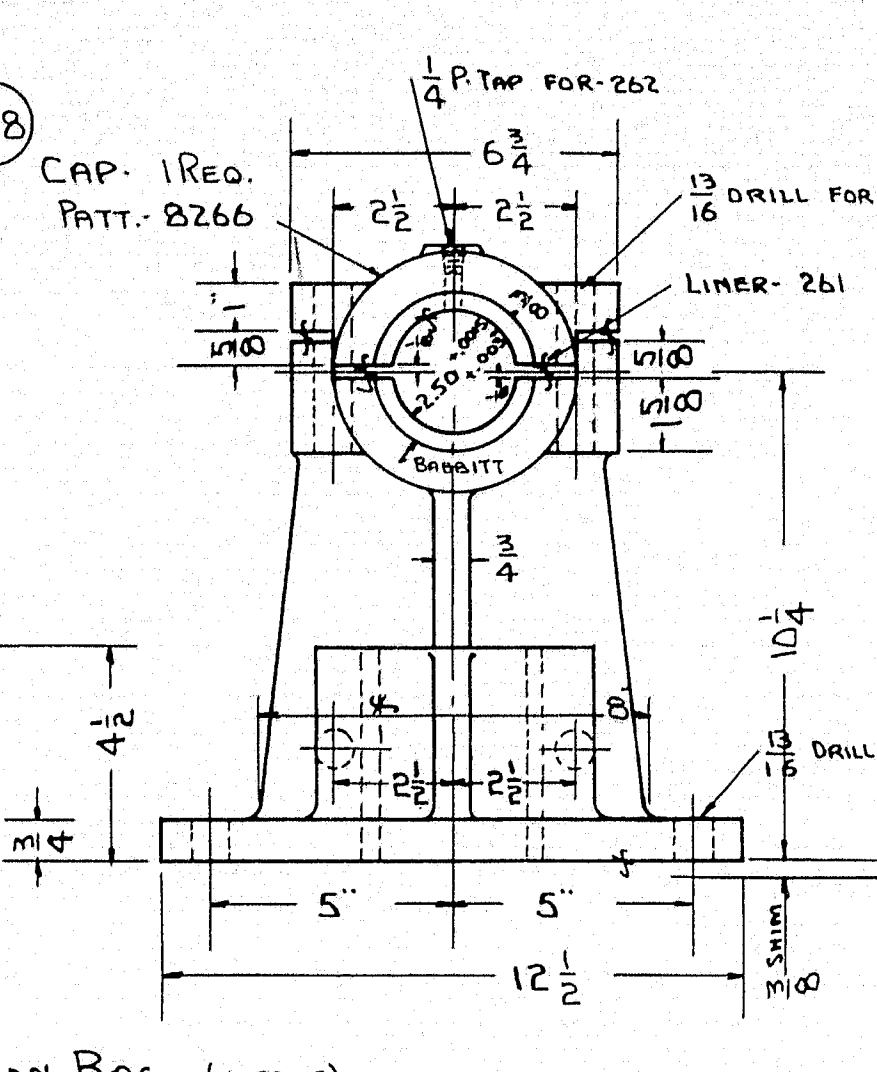
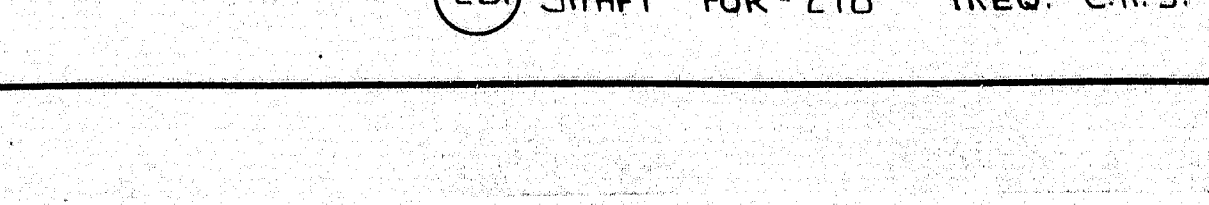
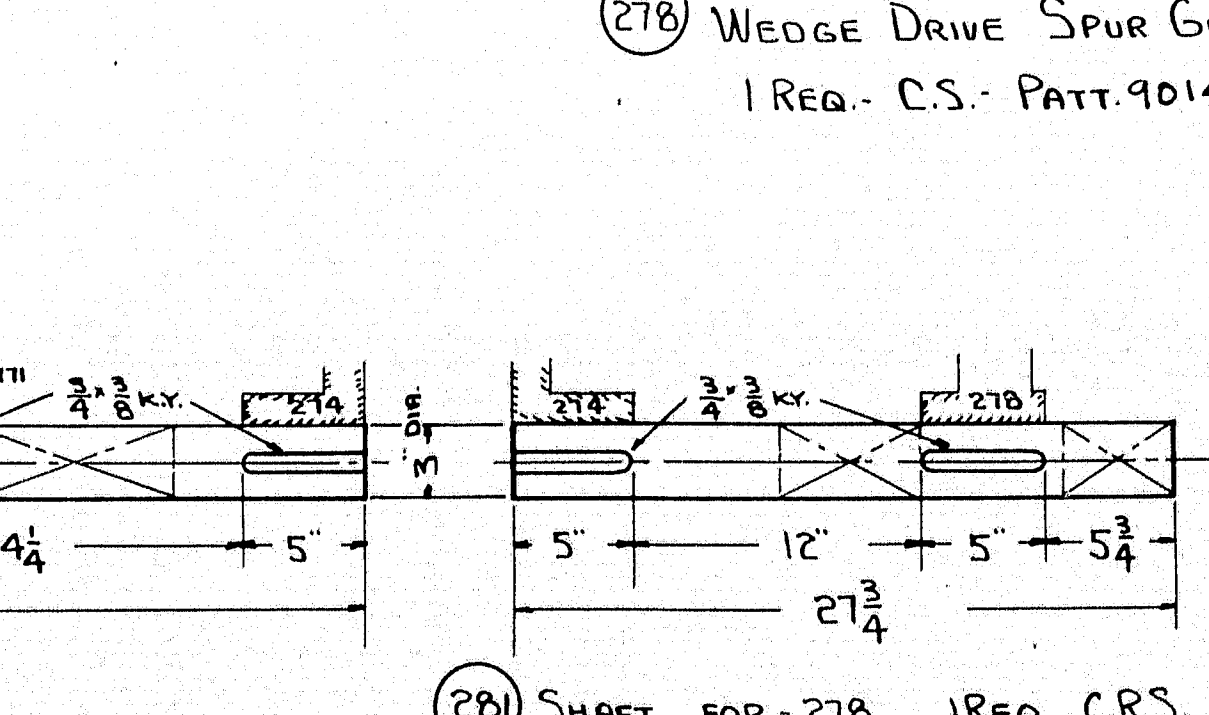
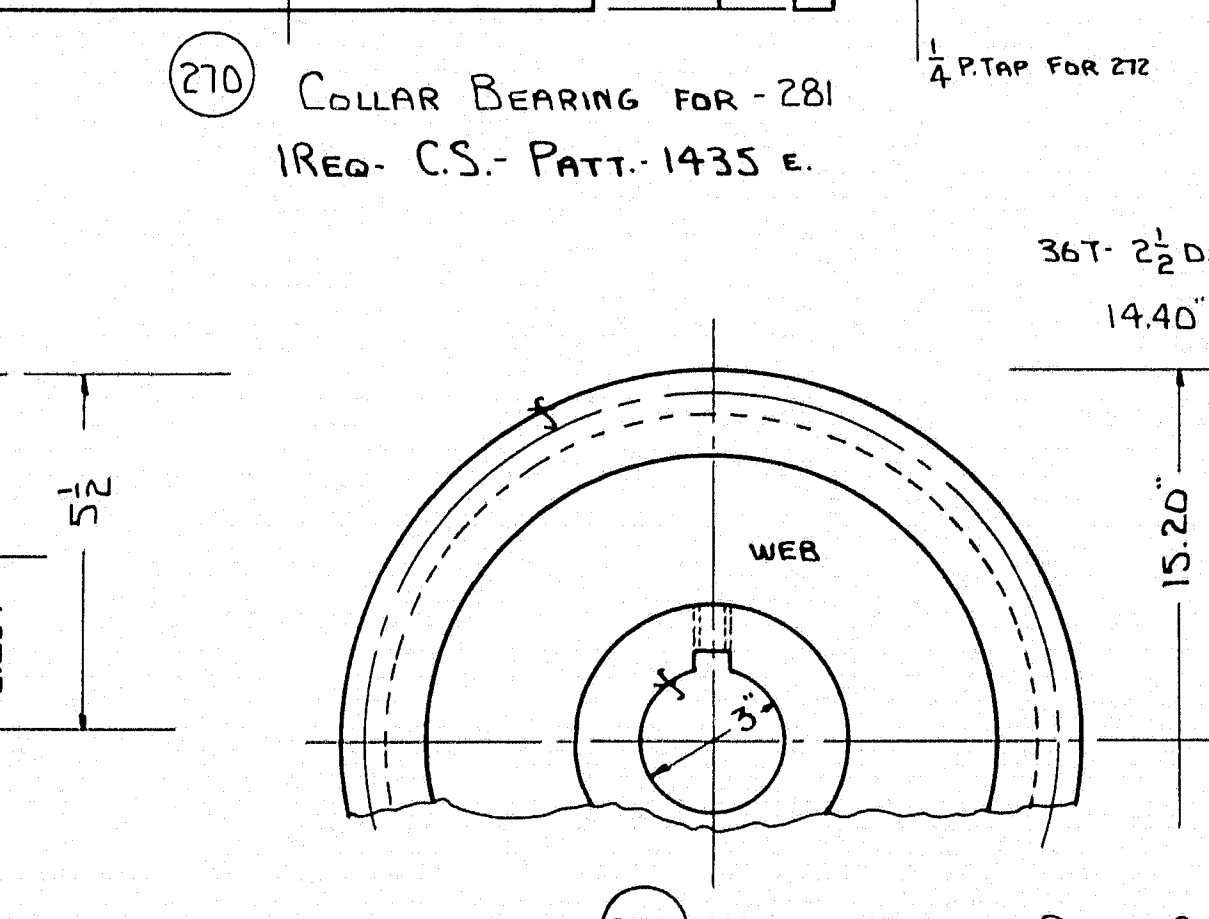
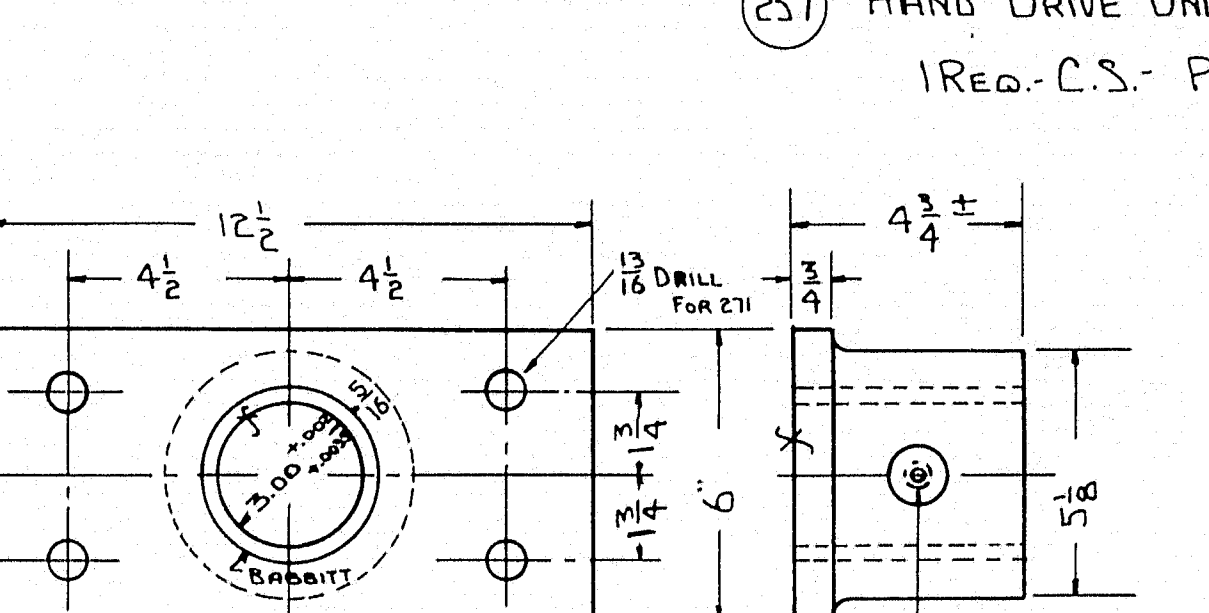
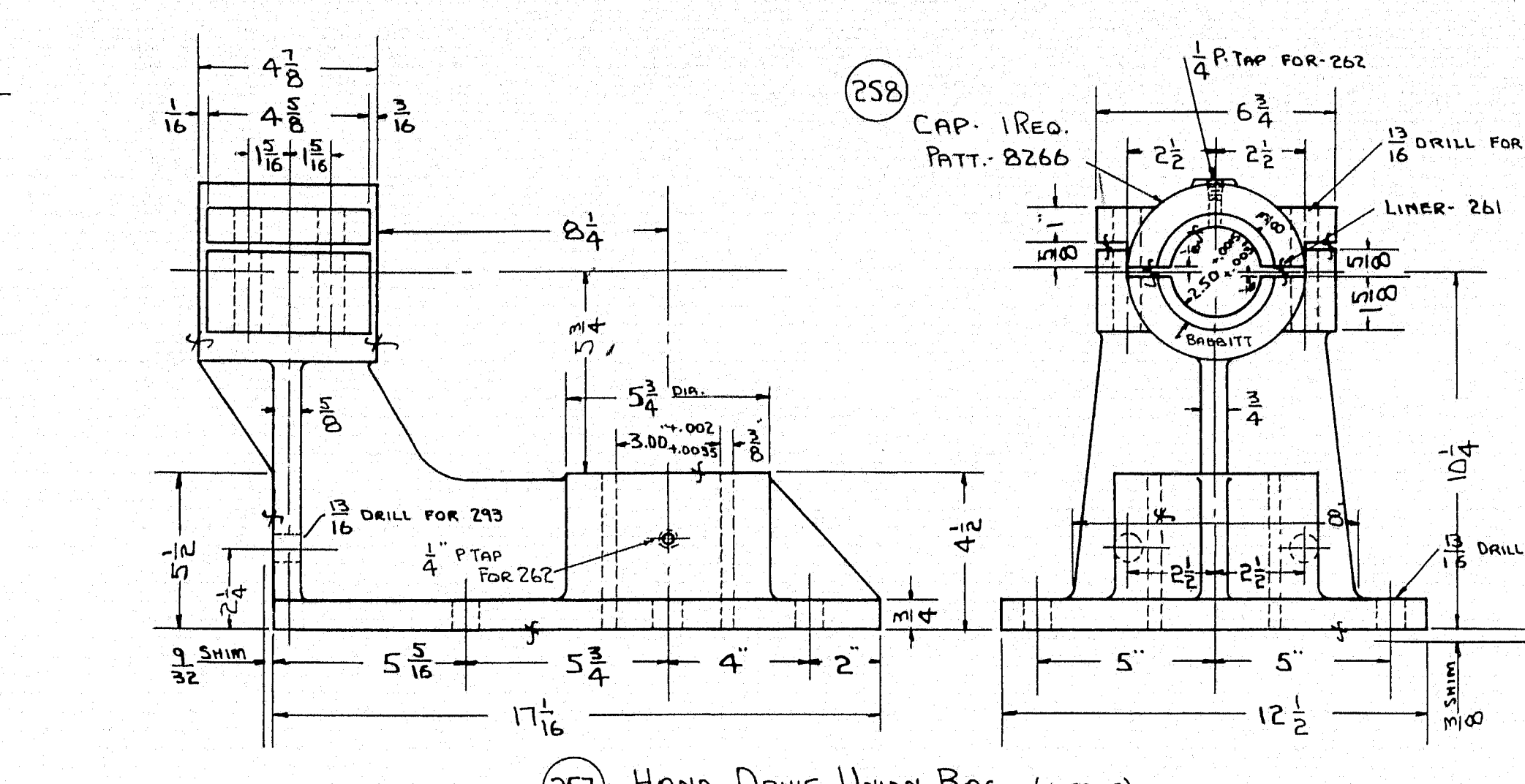
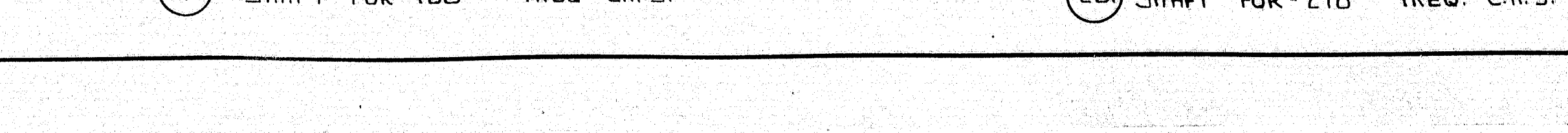
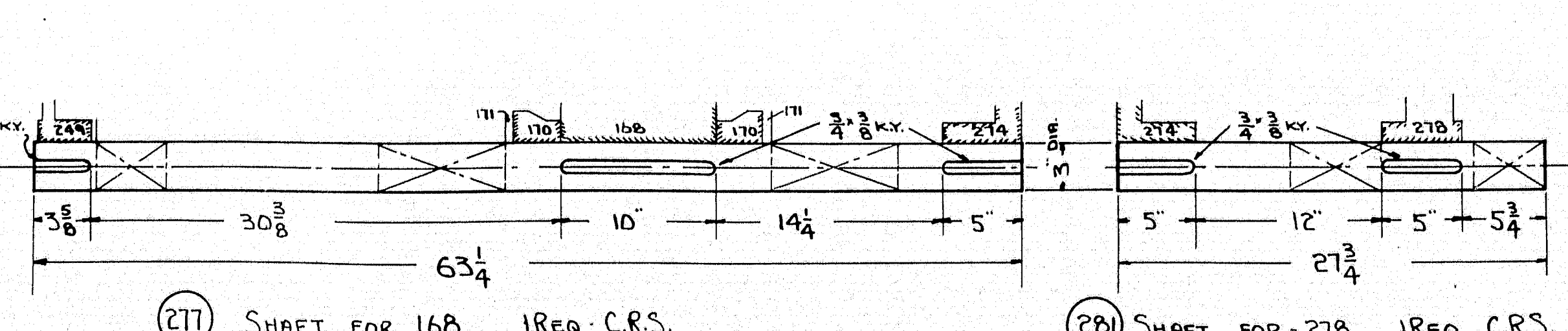
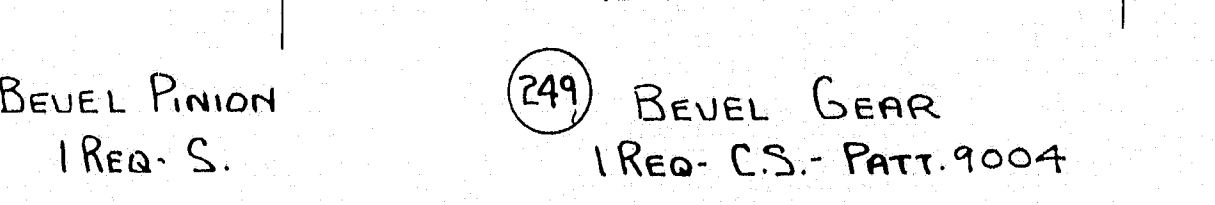
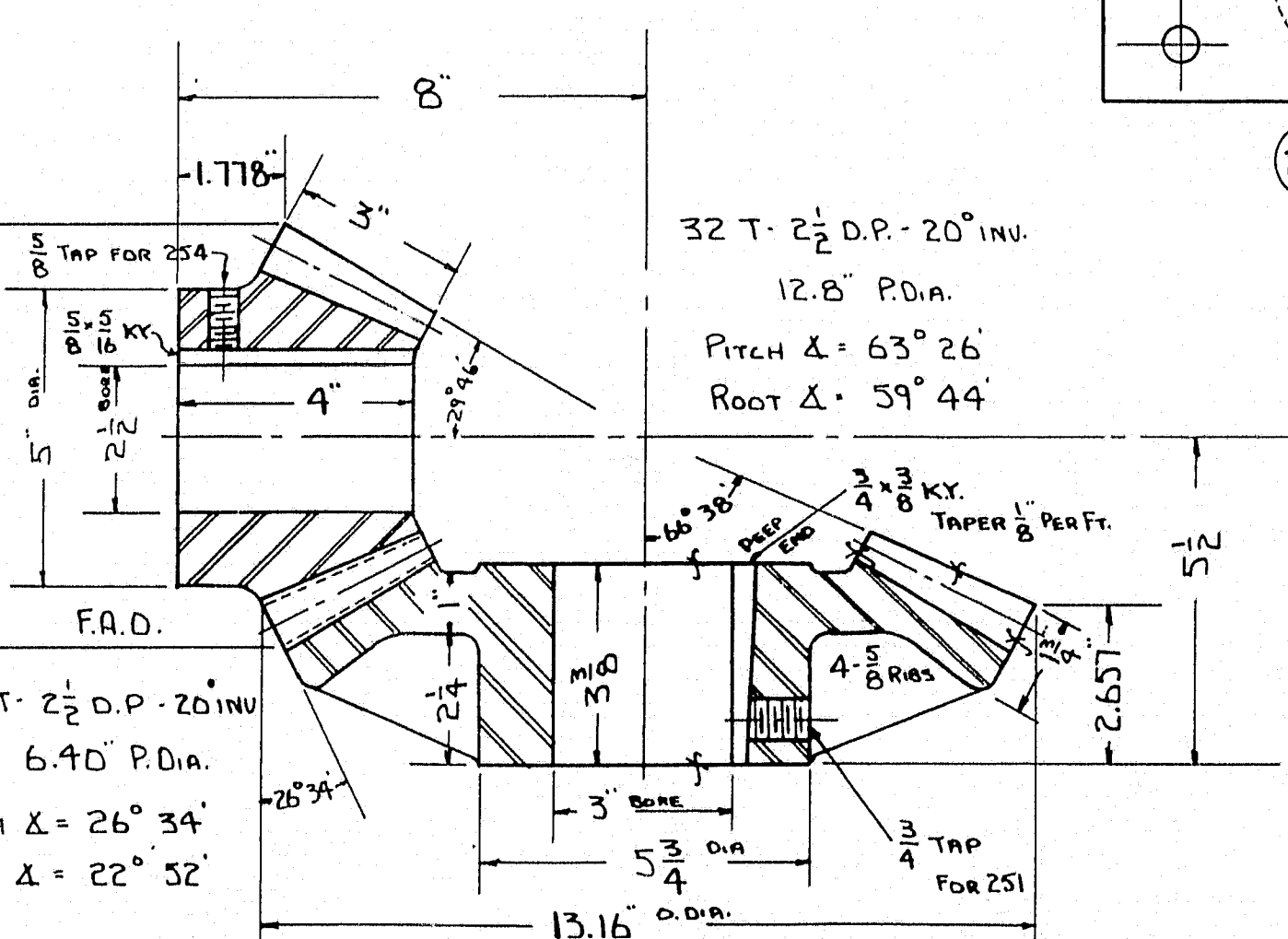
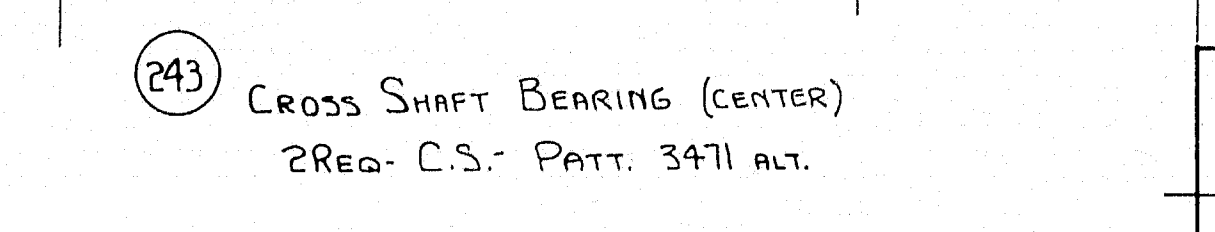
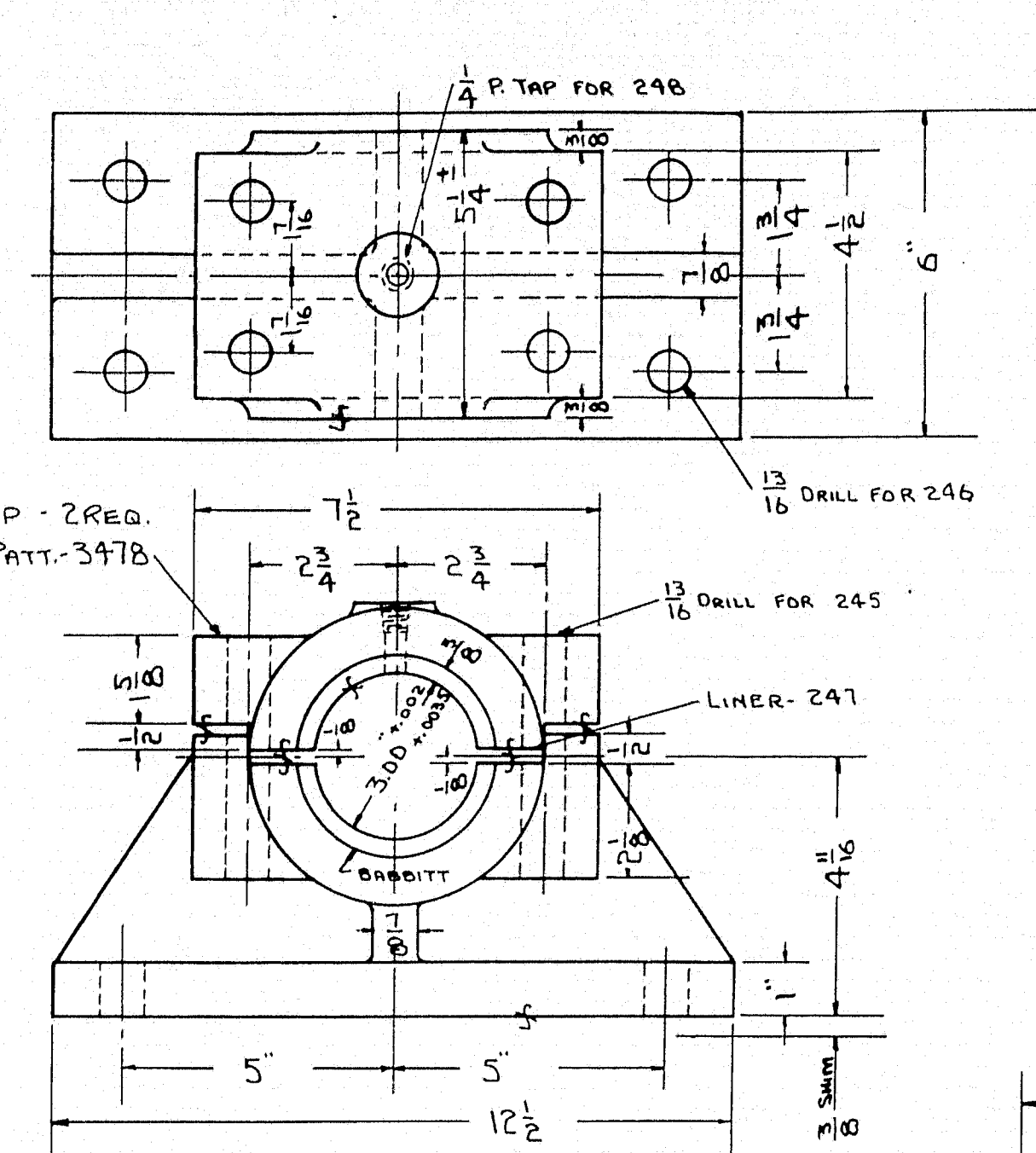
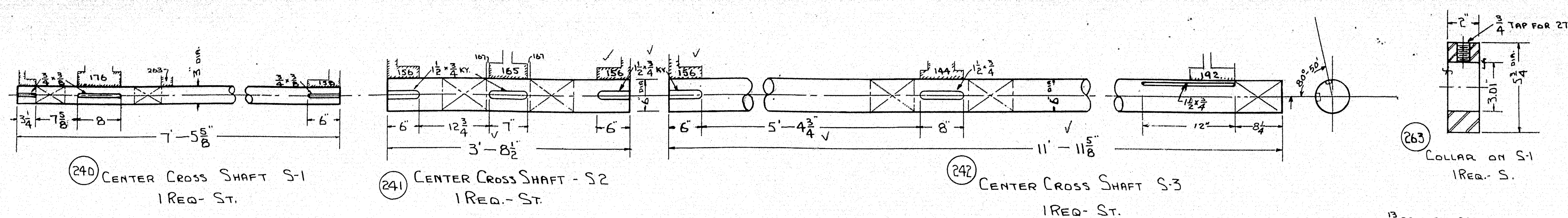
THE EARLE GEAR AND MACHINE COMPANY

4707 to 4715 STERNOX AVENUE

PHILADELPHIA, PA.

DATE OF FRUIT 2-8-39 REV. APP'D. Me. Highway Comm. 2-21-39

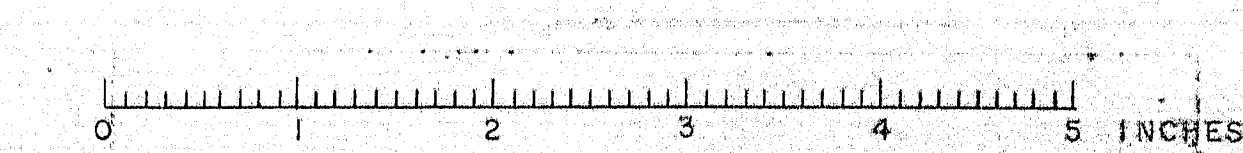
SHEET 7 OF DWG. N° 4246-E



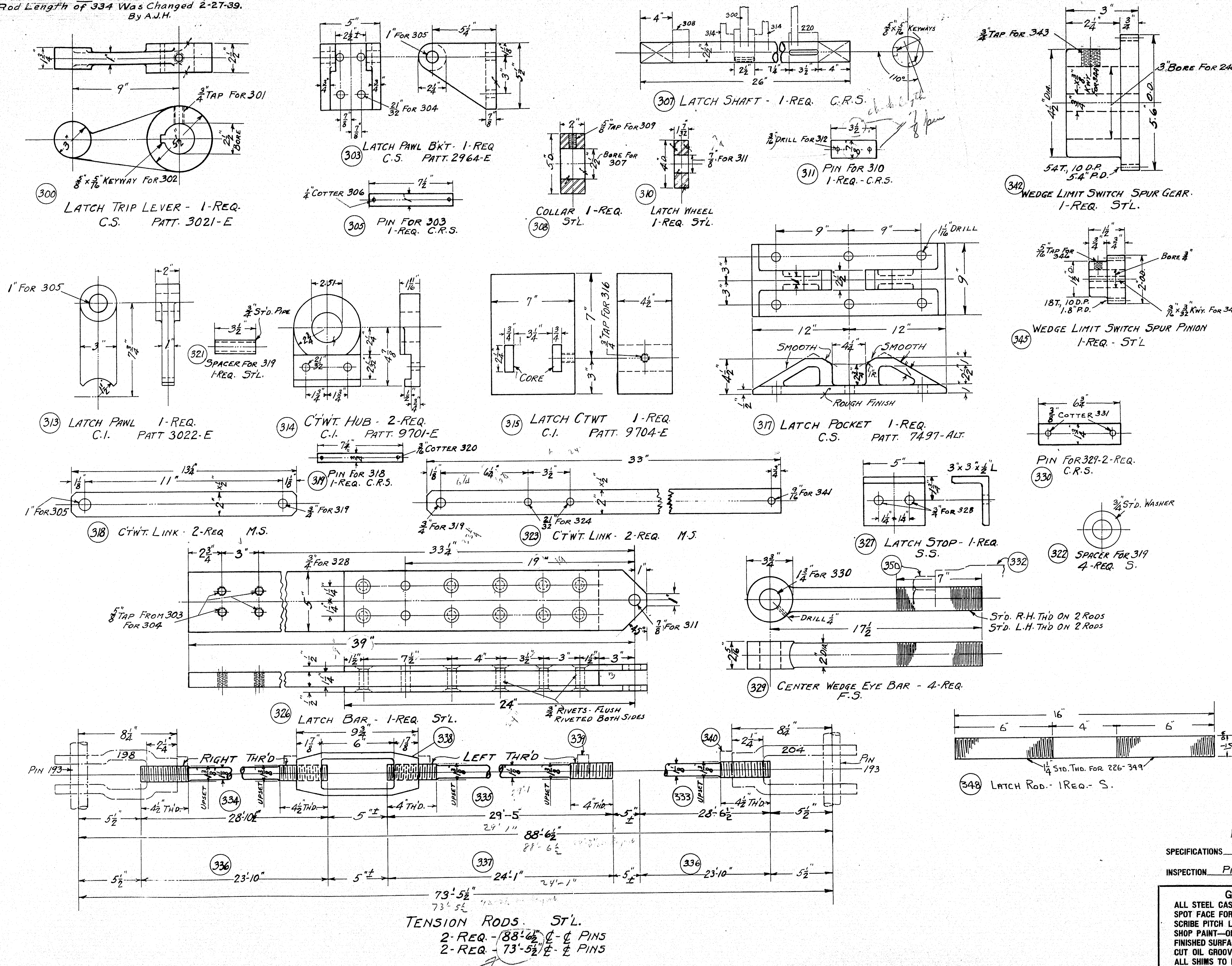
SD. B-2141 BILL OF MATERIAL DWG. 4247-E-30				
P. No	NAME	QTY	MTL.	PATT.
240	CENTER CROSS SHAFT S1	1	C.R.S.	
241	CENTER CROSS SHAFT S2	1	S.	
242	CENTER CROSS SHAFT S3	1	S.	
243	CROSS SHAFT BRG. (CENTER)	2	C.S.	3471(ALT)
244	CAP FOR 243	2	C.S.	3478(E)
245	CAP BOLT FOR 244	8	S.	
246	BASE BOLT FOR 243	8	S.	
247	LINER FOR 243	4	FIBRE	
248	LUB. FITTING FOR 244	2	S.	
249	BEVEL GEAR	1	C.S.	9004
250	KEY FOR 249	1	S.	
251	SET SCREW FOR 249	1	S.	
252	BEVEL PINION	1	S.	
253	KEY FOR 252	1	S.	
254	SET SCREW FOR 252	1	S.	
255	THRUST WASHER FOR 249	1	PH.BZ.	4373
256	THRUST WASHER FOR 252	1	PH.BZ.	4458
257	HAND DRIVE UNION BRG.	1	C.S.	9002
258	CAP FOR 257	1	C.S.	8266(E)
259	CAP BOLT FOR 258	4	S.	
260	BASE BOLT FOR 257	6	S.	
261	LINER FOR 257	2	FIBRE	
262	LUB. FITTING FOR 258	2	S.	
263	COLLAR ON S1	1	S.	
264	BEARING FOR 281	1	C.S.	7673(E)
265	CAP FOR 264	1	C.S.	7642(E)
266	CAP BOLT FOR 265	4	S.	
267	BASE BOLT FOR 264	4	S.	
268	LINER FOR 264	2	FIBRE	
269	LUB. FITTING FOR 265	1	S.	
270	COLLAR BEARING FOR 281	1	C.S.	1435(E)
271	BASE BOLT FOR 270	4	S.	
272	LUB. FITTING FOR 270	1	S.	
273	SET SCREW FOR 263	1	S.	
274	JAW COUPLING FOR 271-281	2	C.S.	8478(E)
275	KEY FOR 274	2	S.	
276	SET SCREW FOR 274	2	S.	
277	SHAFT FOR 168	1	C.R.S.	
278	SPUR GEAR (WEDGE DRIVE)	1	C.S.	9014
279	KEY FOR 278	1	S.	
280	SET SCREW FOR 278	1	S.	
281	SHAFT FOR 278	1	C.R.S.	
282	WEDGE CAPSTAN SHAFT BRG.	1	C.S.	9006
283	BASE BOLT FOR 282	4	S.	
284	LUB. FITTING FOR 282	1	S.	
285	WEDGE CAPSTAN SHAFT	1	C.R.S.	
286	COLLAR ON 285	1	S.	
287	SET SCREW FOR 286	1	S.	
288	SPUR PINION (WEDGE MOTOR)	1	F.S.	
289	KEY FOR 288	1	S.	
290	SET SCREW FOR 288	1	S.	
291	NUT FOR 245	24	S.	
292	COTTER PIN FOR 245	8	S.	
293	BASE BOLT FOR 257	2	S.	

GENERAL NOTES
ALL STEEL CASTINGS & FORGINGS TO BE ANNEALED
SPOT FACE FOR ALL BOLT HEADS & NUTS
SCRIBE PITCH LINES ON BOTH SIDES OF ALL GEARS
SHOP PAINT—ONE COAT—
FINISHED SURFACES COATED—NO OX-ID GREASE
CUT OIL GROOVES IN ALL BEARINGS UNLESS NOTED
ALL SHIMS TO BE DRILLED

SD. B-2141 CONTRACT
OPERATING MACHINERY
SOUTHPORT BRIDGE
FOR
STATE OF MAINE
LACKAWANNA STEEL CONST. CORP.-CONT'R.
P.W.A. Project No. MAINE 1120 F
THE EARLE GEAR AND MACHINE COMPANY
4707 TO 4715 STENTON AVENUE
PHILADELPHIA, PA.
DRAWN BY D.B.S. 1-20-39 APPROVED BY M.E. Highway Comm. 2-22-39
CHECKED BY J.E. 1-20-39 REV. APPROV. 3-1-39
DATE OF PRINT 2-25-39 REV. APPROV.
SHEET 8 OF DWG. No. 4247-E FILE No. 30



Note:
This Sheet Not Submitted When
Rod Length of 334 Was Changed 2-27-39.
By A.J.H.



S.O. B-2141		BILL OF MATERIAL		DWG. 4248-E	
PC.	NAME	Q.	MATL. PATT.	REMARKS	
300	LATCH TRIP LEVER	1	C.S.	3021	E
301	3/4 SET SCREW FOR 300	1	S.		1/2 U.H.D. - Sq. Hd. - CUP PT.
302	KEY FOR 300	1	S.		KEY LIST
303	LATCH PAWL BKT.	1	C.S.	2964	E
304	BOLT FOR 303	4	S.		1/2 U.H.D. TAP BOLT & L.W.
305	PIN FOR 303	1	C.R.S.		1/2 U.H.D.
306	COTTER FOR 305	2	S.		1/2 U.H.D.
307	LATCH SHAFT	1	C.R.S.		1/2 U.H.D.
308	COLLAR FOR 307	1	S.		1/2 U.H.D. - Sq. Hd. - CUP PT.
309	3/4 SET SCREW FOR 308	2	S.		1/2 U.H.D. - Sq. Hd. - CUP PT.
310	LATCH WHEEL	1	S.		1/2 U.H.D.
311	PIN FOR 310	1	S.		1/2 U.H.D.
312	COTTER FOR 311	2	S.		1/2 U.H.D.
313	LATCH PAWL	1	C.I.	3022	E
314	COUNTER WEIGHT HUB	2	C.I.	9701	E
315	LATCH COUNTER WEIGHT	1	C.I.	9704	E
316	3/4 SET SCREW FOR 315	1	S.		1/2 U.H.D. - Sq. Hd. - CUP PT.
317	LATCH POCKET	1	C.S.	7497	ALT.
318	CTWT. LINK	2	M.S.		
319	PIN FOR 318	1	C.R.S.		
320	COTTER FOR 319	2	S.		1/2 U.H.D.
321	SPACER FOR 319	1	S.		1/2 U.H.D.
322	SPACER FOR 319	4	M.S.		1/2 U.H.D.
323	CTWT. LINK	2	M.S.		
324	BOLT FOR 323	4	S.		1/2 U.H.D. - Sq. Hd. - CUP PT.
325	LOCK WASHER (3/8") FOR 324	4	S.		1/2 U.H.D.
326	LATCH BAR	1	S.		1/2 U.H.D.
327	LATCH STOP	1	S.		1/2 U.H.D.
328	BOLT	2	S.		1/2 U.H.D.
329	CENTER WEDGE EYE BAR	4	F.S.		1/2 U.H.D.
330	PIN FOR 329	2	C.R.S.		1/2 U.H.D.
331	COTTER FOR 330	4	S.		1/2 U.H.D.
332	SLEEVE NUT FOR 329	2	F.S.	2" STD	R. & L. THD.
333	TENSION ROD	2	S.		28'-6 1/2" LG. RIGHT THDS.
334	TENSION ROD	2	S.		28'-10 1/2" LG. RIGHT THDS.
335	TENSION ROD	2	S.		29'-5 LG. LEFT THDS.
336	TENSION ROD	4	S.		23'-10 LG. RIGHT THDS.
337	TENSION ROD	2	S.		24'-1 LG. LEFT THDS.
338	TURN BUCKLE	8	F.S.		1 1/2 x 9 1/2 LG. R. & L. THD.
339	1 1/2 HEX. NUTS - FOR 337	8	S.		LEFT HD. THD. STD. HEX.
340	1 1/2 HEX. NUTS - FOR 334	16	S.		RIGHT HD. THD. STD. HEX.
341	BOLT FOR 323	2	S.		1/2 U.H.D. HEX. HD. CAP. INUT & L.W.
342	WEDGE LIM. SWCH. SPUR GEAR	1	S.		1/2 U.H.D.
343	3/4 SET SCREW FOR 342	1	S.		1/2 U.H.D.
344	KEY FOR 342	1	S.		KEY LIST
345	WEDGE LIM. SWCH. SPUR PINION	1	S.		1/2 U.H.D.
346	3/4 SET SCREW FOR 345	1	S.		1/2 U.H.D.
347	KEY FOR 345	1	S.		KEY LIST
348	LATCH ROD	1	S.		1/2 U.H.D.
349	LOCK NUT FOR 348	2	S.		1/2 U.H.D.
350	LOCK NUT FOR 329	4	S.		2" STD. HEX. - 2" L. HAND THD.

MAINE STATE HIGHWAY SPEC'S.
SPECIFICATIONS FOR STEEL HIGHWAY BRIDGES.
INSPECTION PITTSBURG TESTING LAB.

GENERAL NOTES
ALL STEEL CASTINGS & FORGINGS TO BE ANNEALED
SPOT FACE FOR ALL BOLT HEADS & NUTS
SCRIBE PITCH LINES ON BOTH SIDES OF ALL GEARS
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S.O. B-2141
OPERATING MACHINERY
SOUTHPORT BRIDGE
FOR
STATE OF MAINE
LACKAWANNA STEEL CONST. CORP., CONTRACTOR
PWA. PROJECT NO. MAINE 1120 F
THE EARLE GEAR AND MACHINE COMPANY
4707 TO 4715 STENTON AVENUE
PHILADELPHIA, PA.
DRAWN BY GOSSETT
CHECKED BY R.E.
DATE OF PRINT 2-27-39
SHEET 9 OF
APPROVED BY ME. HIGHWAY COMM. 2-28-39
DWG. NO. 4248-E 30

KEY LIST

P.No.	KIND	QTY.	A	B	C	D	E	FOR
14	STRAIGHT	2	1"	1"	7/8"	—	—	13
42	GIB	2	1"	1"	7/8"	1 1/4"	1 3/4"	40
48	GIB	1	3/8"	3/8"	6 1/8"	2 3/8"	1 1/4"	41
54	FEATHER	1	1"	1"	12 1/2"	—	—	43-45
73	FEATHER	2	1"	1"	6 1/2"	—	—	72
110	GIB	1	3/8"	3/8"	6 1/8"	2 3/8"	1 1/4"	124
113	GIB	1	3/8"	3/8"	5 3/8"	2 3/8"	1 1/4"	117
145	FEATHER	1	1 1/2"	1 1/2"	8"	—	—	144
137	STRAIGHT	3	1 1/2"	1 1/2"	6"	—	—	156
159	STRAIGHT	1	3/4"	3/4"	6"	—	—	158
166	FEATHER	1	1 1/2"	1 1/2"	7"	—	—	165
169	FEATHER	1	3/4"	3/4"	10"	—	—	168
175	FEATHER	1	3/4"	3/4"	8"	—	—	176
182	FEATHER	2	1 1/8"	1 1/8"	6"	—	—	183
185	FEATHER	2	7/8"	7/8"	6"	—	—	183
193	GIB	4	1 1/8"	1 1/8"	6"	1 1/4"	1 3/4"	194
210	STRAIGHT	2	1 1/8"	1 1/8"	6 1/8"	—	—	209
212	STRAIGHT	2	7/8"	7/8"	6 1/8"	—	—	209
222	FEATHER	1	3/8"	3/8"	4 1/2"	—	—	220
225	FEATHER	1	7/8"	7/8"	4 1/2"	—	—	223
230	GIB	1	3/4"	3/4"	4 1/8"	7/8"	1 1/4"	249
233	STRAIGHT	1	3/8"	3/8"	4"	—	—	252
215	STRAIGHT	2	3/4"	3/4"	5"	—	—	214
279	FEATHER	1	3/4"	3/4"	5"	—	—	278
302	FEATHER	1	3/8"	3/8"	2 1/2"	—	—	300
344	STRAIGHT	1	3/4"	3/4"	3"	—	—	342
347	STRAIGHT	1	3/16"	3/16"	1 1/2"	—	—	345
366	FEATHER	1	3/16"	3/16"	1 1/2"	—	—	364
368	STRAIGHT	1	3/16"	3/16"	1 1/2"	—	—	367
370	STRAIGHT	1	1/4"	1/4"	2 1/4"	—	—	369
372	FEATHER	1	3/16"	3/16"	2 1/8"	—	—	371
374	STRAIGHT	1	1/4"	1/4"	2 1/8"	—	—	373
376	STRAIGHT	2	3/16"	3/16"	1 1/2"	—	—	375
378	FEATHER	1	3/8"	3/8"	1 1/2"	—	—	375
219	GIB	4	1 1/8"	1 1/8"	6 1/8"	1 1/4"	1 3/4"	217

CAP BOLTS

P.C.	HEAD	Q	A	B	C	D	E	FOR	NUT	L.W.	B.W.
10	HEX.	4	3 1/2"	2 1/8"	2 3/8"	4 1/2"	7/8"	G	8	—	—
12	HEX.	24	1 3/8"	3 3/8"	2 1/8"	6 1/4"	1 1/8"	11	48	—	—
16	HEX.	8	1"	2 3/8"	2 3/8"	5"	1"	6	16	—	—
19	SQ.	12	1 1/8"	1 3/8"	3 1/2"	1 6/8"	1 1/4"	18	24	—	—
31	SQ.	8	1 1/8"	5"	2 3/8"	7 3/8"	1"	30	16	—	—
80	SQ.	16	1 3/8"	6"	2 3/8"	8 3/8"	7/8"	78	32	—	—
98	SQ.	12	1 3/8"	4 1/2"	2 3/8"	6 3/4"	3/4"	97	24	—	—
106	HEX.	4	1 3/8"	4 3/8"	2 3/8"	6 3/4"	3/4"	103	8	—	—
140	SQ.	12	1 1/8"	6 3/8"	2 3/8"	9 3/8"	1"	139	24	—	—
149	SQ.	8	1 1/8"	6 3/8"	2 3/8"	9 3/8"	1"	148	16	—	—
153	HEX.	16	1 1/8"	1 3/8"	1 1/4"	3 1/8"	3/8"	152	16	16	—
189	HEX.	16	1 3/8"	5"	2 3/8"	7 3/8"	7/8"	187	32	—	—
259	HEX.	4	1 3/8"	3 3/8"	2 3/8"	5 1/2"	3/4"	258	8	—	—
266	SQ.	4	1 3/8"	4 1/8"	2 3/8"	6 1/4"	3/4"	265	8	—	—
32	HEX.	8	1 3/8"	3 3/8"	1 3/8"	5 1/4"	7/8"	33	8	8	—

BASE BOLTS

P.C.	HEAD	Q	A	B	C	D	E	FOR	NUT	L.W.	B.W.
5	HEX.	4	1 1/8"	4 1/8"	2 3/8"	7"	7/8"	4	8	—	—
20	HEX.	8	1 3/8"	3 3/8"	3 3/8"	7"	1 1/4"	18	16	—	—
20	HEX.	8	1 3/8"	2 3/8"	3 3/8"	5 3/4"	1 1/4"	18	16	—	—
20	HEX.	2	1 3/8"	3 3/8"	3 3/8"	6 1/4"	1 1/4"	18	4	—	—
32	HEX.	8	1 3/8"	2 3/8"	2 3/8"	5 3/8"	7/8"	33	16	—	—
39	HEX.	6	1 1/8"	3 3/8"	2 3/8"	5 1/2"	1"	38	12	—	—
56	HEX.	4	1 1/8"	2 3/8"	2 3/8"	4 1/2"	1"	55	8	—	—
66	HEX.	8	1 3/8"	3 3/8"	2 3/8"	4 1/8"	7/8"	65	16	—	—
81	HEX.	16	1 3/8"	2 3/8"	2 3/8"	4 1/2"	7/8"	78	32	—	—
85	HEX.	16	1 3/8"	2 3/8"	2 3/8"	5 1/4"	7/8"	84	32	—	—
99	HEX.	8	1 3/8"	1 3/8"	1 3/8"	3 3/4"	3/4"	96	16	—	—
105	HEX.	8	1 3/8"	2 1/4"	1 3/8"	3 3/4"	3/4"	102	16	—	—
141	HEX.	10	1 1/8"	2 3/8"	2 3/8"	4 3/4"	1"	138	20	—	—
155	HEX.	8	1 1/8"	1 3/8"	2 3/8"	4 1/4"	1"	147	16	—	—
190	HEX.	16	1 3/8"	3 3/8"	2 3/8"	5 1/2"	7/8"	186	32	—	—
202	HEX.	28	1 1/8"	2"	1 3/8"	3 3/8"	3/4"	200	56	—	28
203	HEX.	56	1 1/8"	1 3/8"	1 3/8"	3 3/4"	3/4"	200	112	—	—
218	HEX.	8	1 3/8"	1 3/8"	1 3/8"	3 3/4"	3/4"	216	16	—	—
246	HEX.	8	1 3/8"	1 3/8"	1 3/8"	3 3/4"	3/4"	243	16	—	—
260	HEX.	6	1 3/8"	1 1/2"	1 3/8"	3 3/4"	3/4"	257	12	—	—
271	HEX.	4	1 3/8"	1"	1 3/8"	2 3/8"	3/4"	270	8	—	—
283	HEX.	4	1 3/8"	1 3/8"	1 3/8"	3 3/4"	3/4"	282	8	—	—
293	HEX.	2	1 3/8"	2 1/4"	1 3/8"	4 3/8"	3/4"	257	4	—	—
99	HEX.	4	1 3/8"	1 3/8"	1 3/8"	3 3/4"	3/4"	96	8	—	—
32	HEX.	8	1 3/8"	3 3/8"	2 3/8"	5 3/8"	7/8"	33	16	—	—
141	HEX.	2	1 1/8"	2 3/8"	2 3/8"	5"	1"	—	4	—	2
267	HEX.	4	1 3/8"	1 3/4"	1 3/8"	3 3/8"	3/4"	264	8	—	—

S.D. B2141		BILL OF MATERIAL		Dwg. 4249-E-30	
P.No.	NAME	QTY.	MTL.	PATT.	REMARKS
355	UNION BEARING	1	C.I.	6034 E	
356	BUSHING FOR 355	1	B.	JOHNSON	Bz. 1 1/4 DIA. x 1 1/2 DIA. x 3 1/2 LONG
357	BUSHING FOR 355	2	B.	JOHNSON	Bz. 1 1/4 DIA. x 1 1/2 DIA. x 1 1/2 LONG
358	BASE BOLT FOR 355	4	S.		2 x 2 1/2 HEX. HO. CAP SCREW 1 1/2 L.W.
359	PLATE	1	S.		2 x 2 1/2 HEX. HO. CAP SCREW 1 1/2 L.W.
360	BOLTS FOR 359	4	S.		2 x 2 1/2 HEX. HO. CAP SCREW 1 1/2 L.W.
361	TOP BEARING	1	B.	JOHNSON	2 x 2 1/2 HEX. HO. CAP SCREW 1 1/2 L.W.
363	BASE BOLT FOR 361	4	S.		2 x 2 1/2 HEX. HO. CAP SCREW 1 1/2 L.W.
364	L.S. DRIVE HUB	1	S.		2 x 1 1/2 HEX. HO. No Nut
365	TAP BOLT FOR 364	3	S.		2 x 1 1/2 HEX. HO. No Nut
366	KEY FOR 364	1	S.		KEY LIST
367	BEV. PINION-CHAS. BOND. RB-68B20	1	S.		FACE 3/8" OFF BACK HUB AND CUT 2 1/2 x 3/4 KY.
368	KEY FOR 367	1	S.		KEY LIST
369	BEV. GEAR-CHAS. BOND. RB-68B20	1	C.I.		CUT 1/4" x 3/4 KY.
370	KEY FOR 369	1	S.		KEY LIST
371	BEV. PINION	1	S.		CUT 1 1/2 x 3/4 KY.
372	KEY FOR 371	1	S.		KEY LIST
373	BEV. GEAR	1	C.I.		CUT 1 1/2 x 3/4 KY.
374	KEY FOR 373	1	S.		KEY LIST
375	FLEXIBLE COUPLING	1	Cut 3/4" x 3/4" CHAS. BOND. Co. BONDTRU		B 13
376	KEYS FOR 375	2	S.		KEY LIST
377	SHAFT FOR 371	1	C.R.S.		
378	SHAFT FOR 367-373	1	C.R.S.		
379	SHAFT FOR 369	1	C.R.S.		
380	LUB. FITTING FOR 355-361	4	S.		ALUMITE #A-1184
381	SHIM FOR 361	1	S.		5" Sq. with 3/2 DIA. HOLE x 1/2 x 1/2 x 1/2

S.D. B-2301		BILL OF MATERIAL	
P.No.	NAME	QTY.	MTL. PATT. REMARKS
* CR-1	BRUSH HOLDER ROD INSULATION	2	MIC. 1 1/4 DIA. x 10 INSULATION
* CR-2	BRUSH HOLDER	8	A.E. M182922-FIG. 30. P. 12
* CR-3	INSULATOR	30	Bak. E.S. SUPPLY CO. #25703
CR-4	SUPPORTS	6	S. 2 x 2 1/2 x 1 1/2
CR-5	BRACES FOR CR-4	2	S. 1/2 x 1 1/2 x 2 1/2 APP.
CR-6	SPLICE PLATE FOR CR-7	10	B. 4 x 12 x 5
CR-7	COLLECTOR RING	5	B. 1 1/2 WIDE
CR-9	BRUSH ROD	2	C.R.S. 3/8 DIA. x 19 1/2 LONG.
CR-10	NUT FOR CR-9	2	S. 3/8 STD.
CR-11	LOCK NUT FOR CR-9	2	S. 3/8 HEX. 7/8 THICK.
CR-12	MACH. BOLT FOR CR-4	4	S. 1/2 x 2 1/2 HEX. HO. 1 NUT.
CR-13	CAP SCREW FOR CR-4-5	2	S. 2 x 1 1/2 HEX. HO. No Nut.
CR-14	CAP SCREW FOR CR-4	2	S. 1/2 x 1 1/2 HEX. HO. No Nut.
CR-15	MACH. SCREW FOR CR-7	30	B. 3/8 x 3 HEX. HO.
CR-16	TAP BOLT FOR TERMINAL CONT.	5	B. 3/8 x 3 HEX. HO. No Nut.
CR-17	TAP BOLT FOR CR-6	35	B. 3/8 x 3 HEX. HO. No Nut.
CR-18	MACH. BOLT FOR CR-4-5	2	S. 1/2 x 3 HEX. HO. 1 NUT.

* FURNISHED BY - P.H. ZIPP

S.D. B-2141

CONTRACT

OPERATING MACHINERY

SOUTHPORT BRIDGE

FOR

STATE OF MAINE

LACKAWANNA STEEL CONST. CORP. - CONTR.

P.W.A. PROJ. NO. MAINE 1120 F.

THE EARLE GEAR AND MACHINE COMPANY

4707 TO 4715 STENTON AVENUE

PHILADELPHIA, PA.

MAINE STATE HIGHWAY SPEC'S

SPECIFICATIONS FOR STEEL HIGHWAY BRIDGES

INSPECTION PITTSBURG TESTING LAB.

GENERAL NOTES

ALL STEEL CASTINGS & FORGINGS TO BE ANNEALED

SPOT FACE FOR ALL BOLT HEADS & NUTS

SCRIBE PITCH LINES ON BOTH SIDES OF ALL GEARS

SHOP PAINT-ONE COAT-

FINISHED SURFACES COATED- NO. OX-10 GREASE

CUT OIL GROOVES IN ALL BEARINGS UNLESS NOTED

ALL SHIMS TO BE DRILLED

DRAWN BY: R.E. - C.B.S.

CHECKED BY: R.E. - C.B.S.

DATE OF PLOT: 3-7-37

SHEET NO. 10

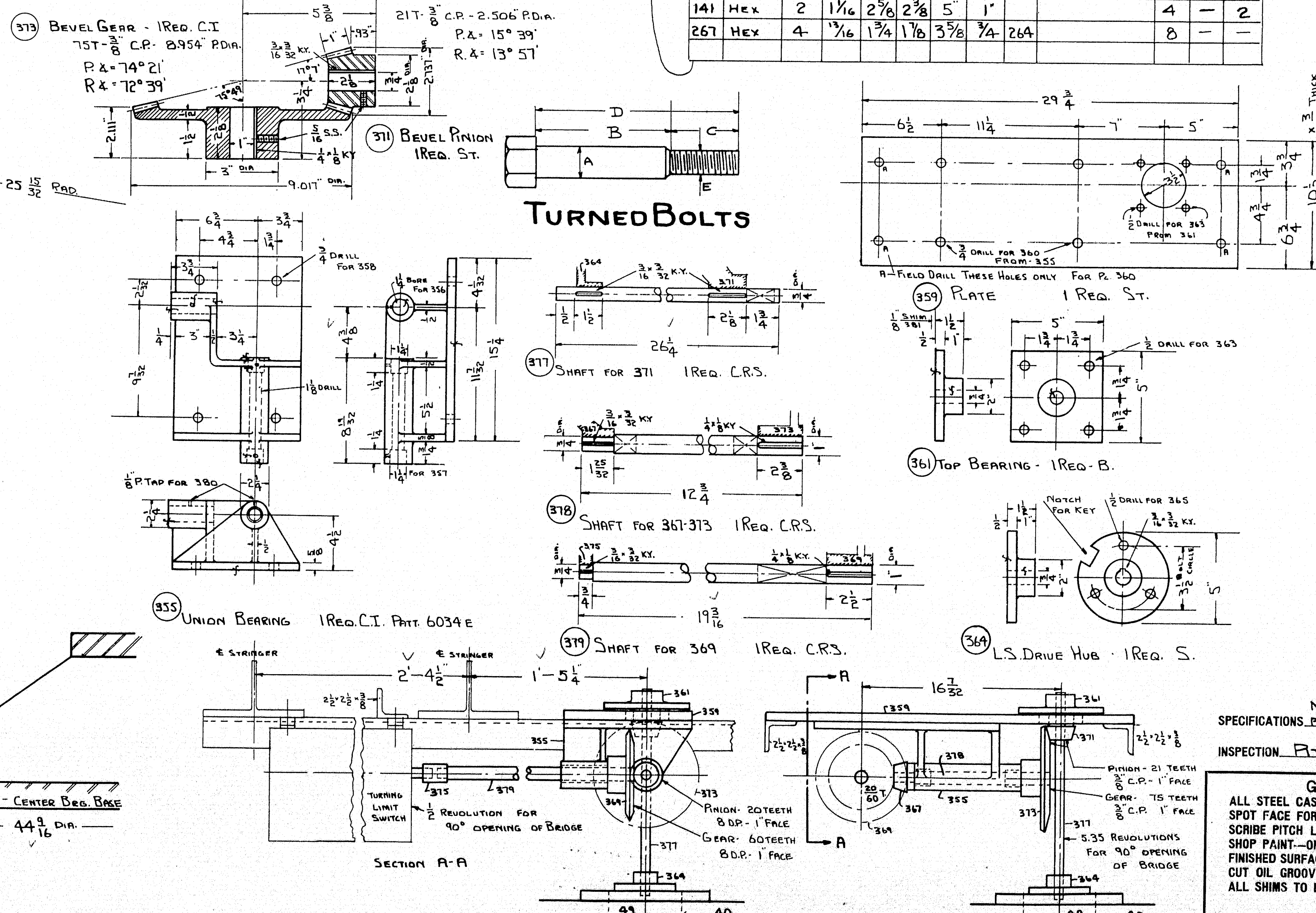
APPROVED BY: M.E. HIGHWAY COMM. 2-22-39

REV. APPD.

DWG. NO. 4249 E

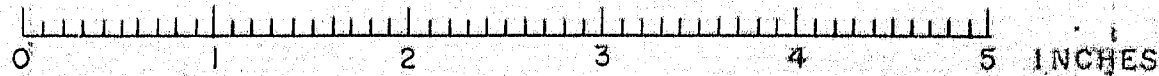
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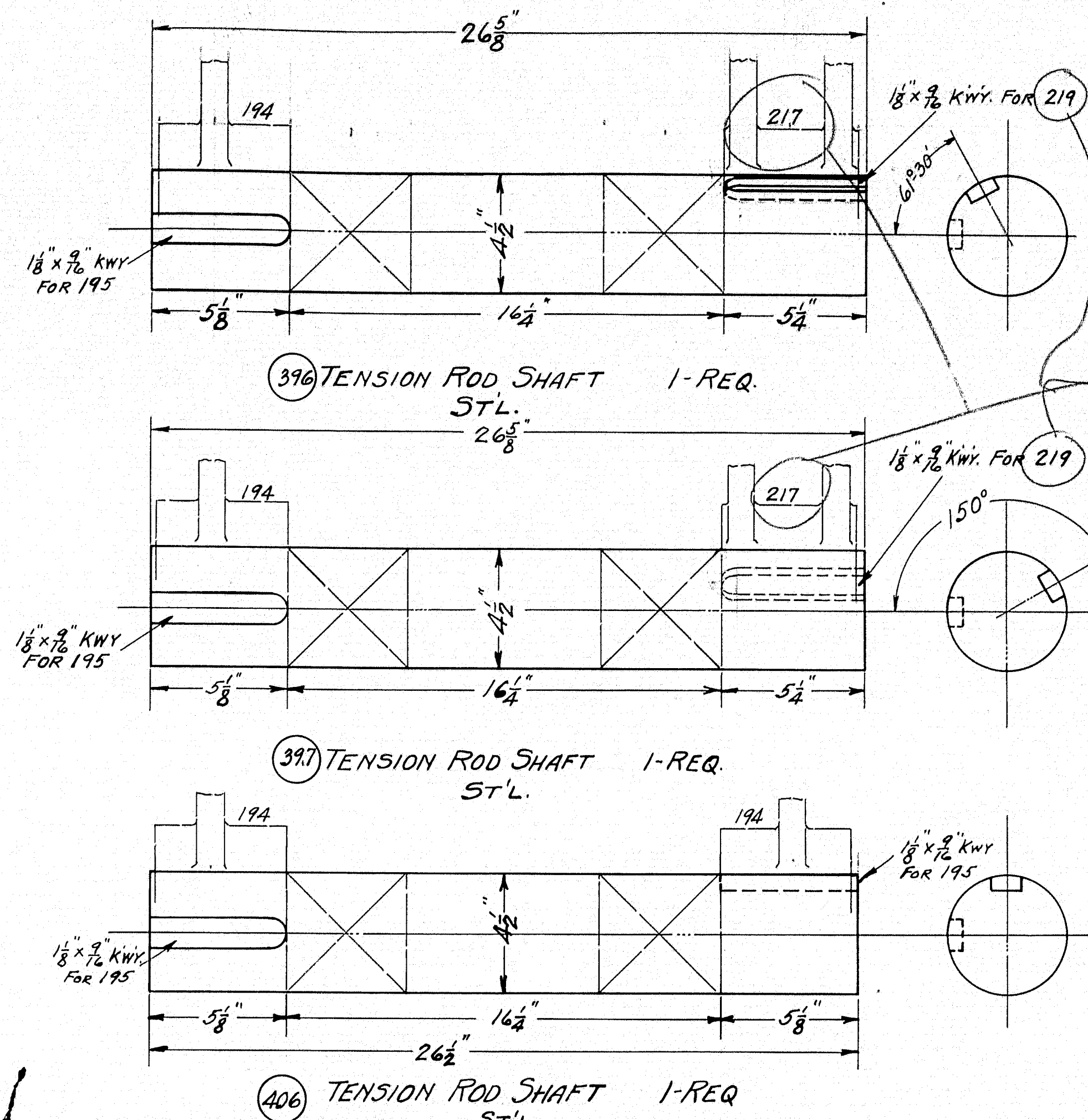
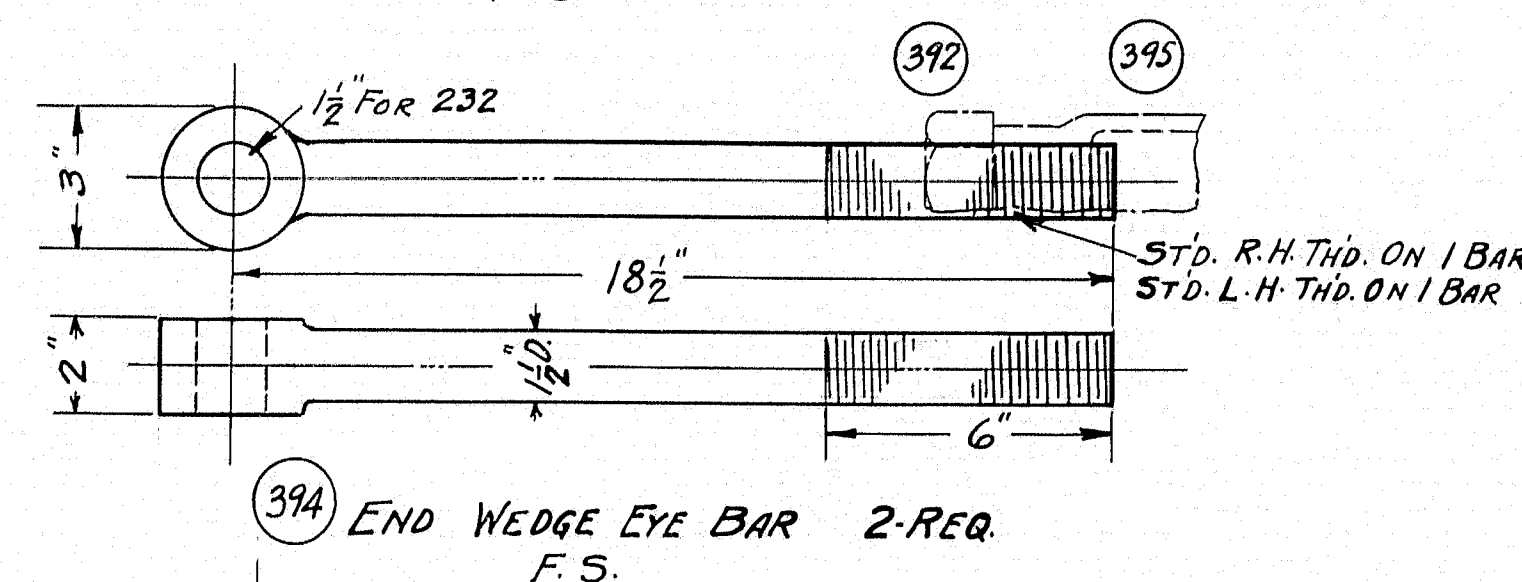
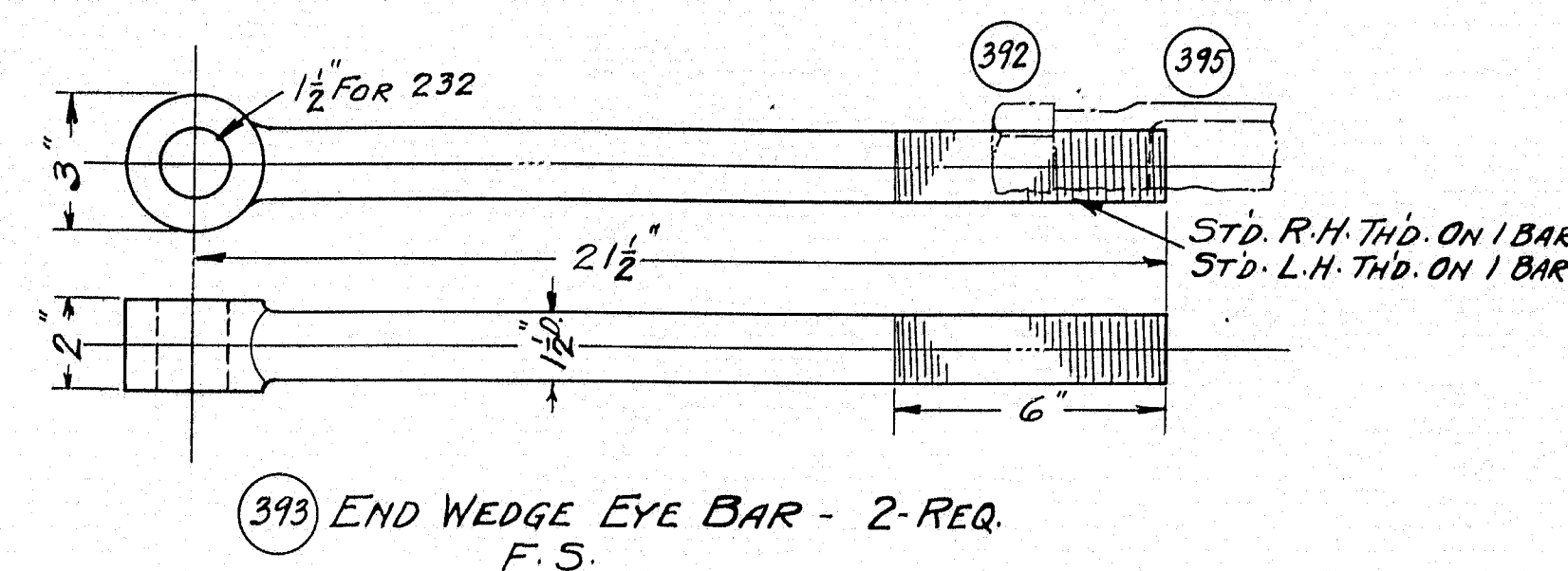
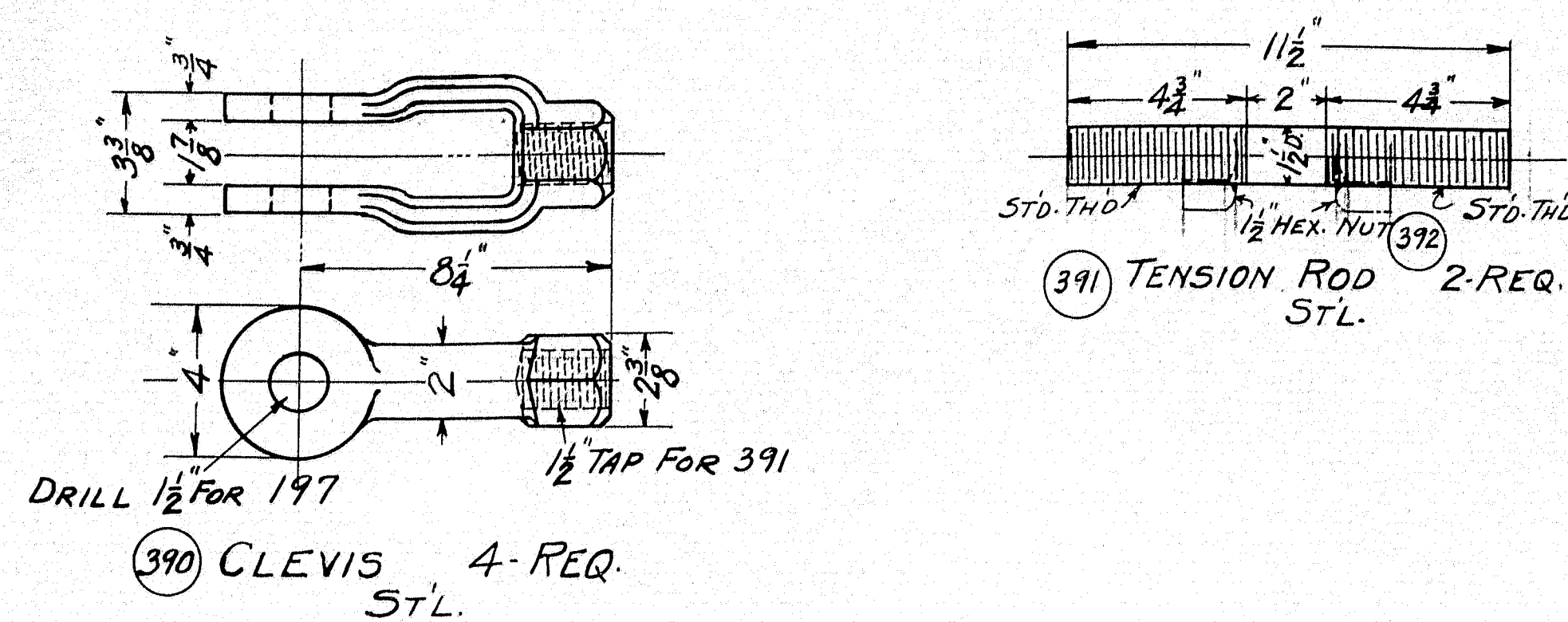
TURNED BOLTS



ASSEMBLY OF COLLECTOR RINGS

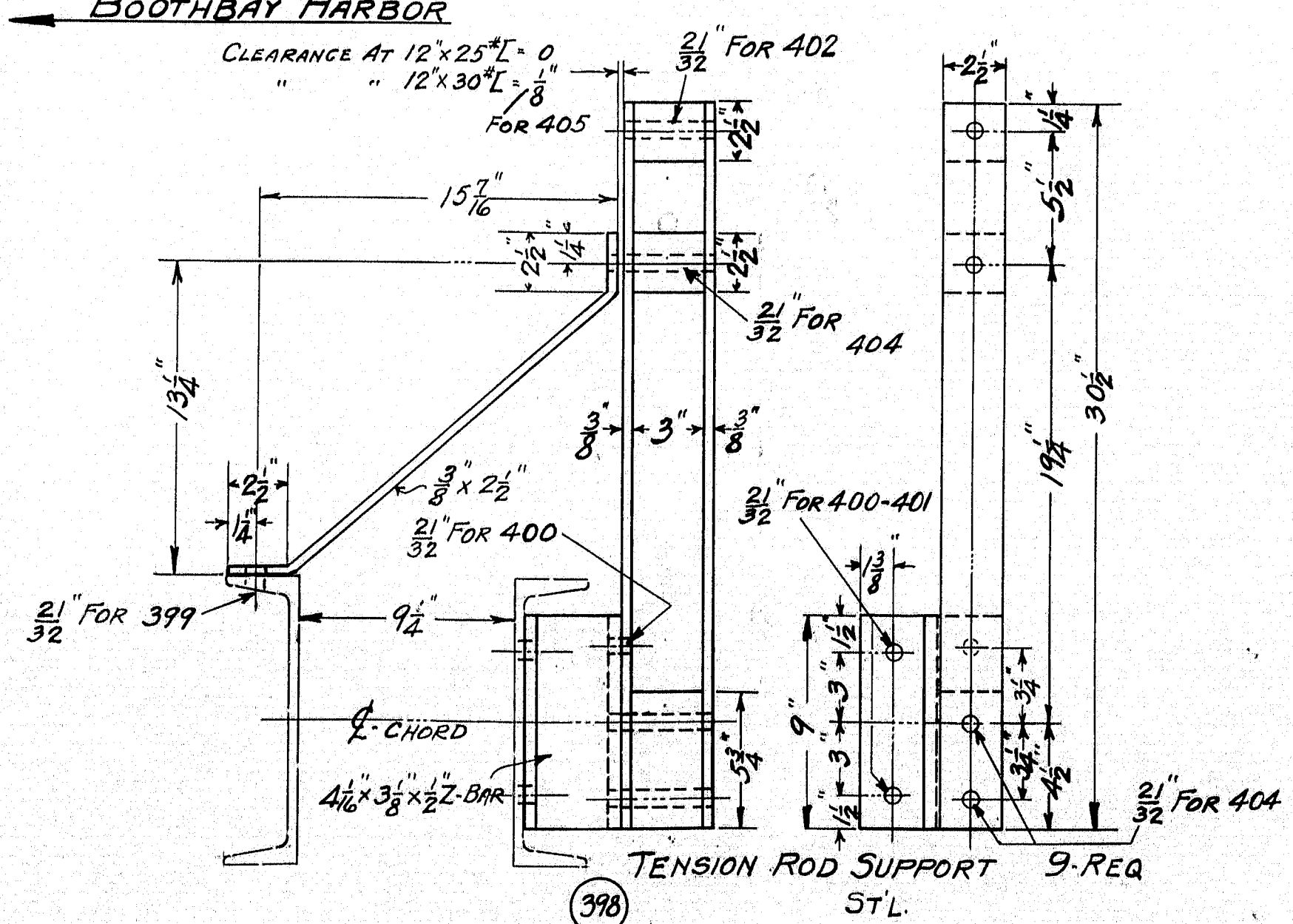
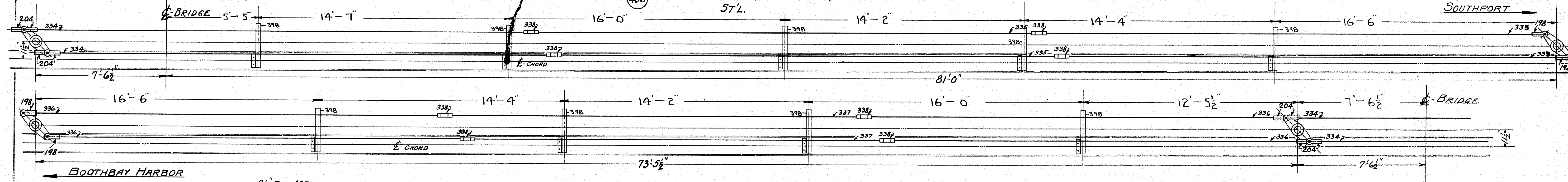
SECTION A-A





DO NOT USE GIB HEAD KEY ON THIS LEVER. USE TAPER KEY FLUSH WITH HUBS.

S.O. B-2141		BILL OF MATERIAL		DWG. 4250-E	
PC	NAME	Q.	MAT'L	PATT.	REMARKS
390	CLEVIS FOR 391	4	S.		MAINE STEEL, INC. #4
391	TENSION ROD	2	S.		
392	NUT FOR 391-393-394	6	S.		1 1/2" STD. HEX.
393	END WEDGE EYE BAR	2	F.S.		
394	END WEDGE EYE BAR	2	F.S.		
395	SLEEVE NUT FOR 393-394	2	S.		1 1/2" STD. - R. & L. THD.
396	TENSION ROD SHAFT	1	S.		
397	TENSION ROD SHAFT	1	S.		
398	TENS. ROD SUPPORT	9	S.		
399	1/2 HEX. BOLT FOR 398	9	S.		2 1/2" U.H.D., HEX. NUT, BEV. W. & L.W.
400	3/8 HEX. BOLT	17	S.		1 3/8" U.H.D., HEX. NUT & L.W.
401	3/8 HEX. BOLT	10	S.		2" U.H.D., HEX. NUT & L.W.
402	3/8 HEX. BOLT	9	S.		4 1/2" U.H.D., HEX. NUT & L.W.
403					
404	3/8 HEX. BOLT	27	S.		5 1/2" U.H.D., HEX. NUT & L.W.
405	3/8 WASHER	8	S.		3/8" TH. FOR SHIMS
406	TENSION ROD SHAFT	1	S.		
407					
408					
409					
410					
411					
412					
413	WRENCH FOR STD. HEX. NUT	1 EACH	S.	15" DOUBLE END	5/8" x 1 1/2" 2 x 2 1/2"
414	WRENCH FOR STD. H.S.	1 EACH	S.	2 1/2" END	1/2" - 3/4" - 1"
415	WRENCH FOR HOLLOW S.S.	1 EACH	S.		5/16" - 1/2" - 3/4" - 1"
416					
417					
418	GREASE GUN	1			ALEMITE-5153-1107-Hose
419					
420					



COPPER SHIM LIST

FOR P.C.	QTY.	WIDTH	LENGTH
33	12	1 1/2	18 1/2
38	2	9	13
53	2	8	30
55	2	7	8
65	4	12	14
78	8	6	14 1/2
84	8	12	16
96	6	5	13
102	4	7	14
138	4	7	14 1/2
138	2	7 1/4	14 1/2
147	4	5 1/4	32
186	8	8	15
200-201	28	3	15
243	4	6	12 1/2
257	2	12 1/2	17 1/4
257	2	5 1/2	8
264	2	5 1/2	12 1/2
361	2	5	5

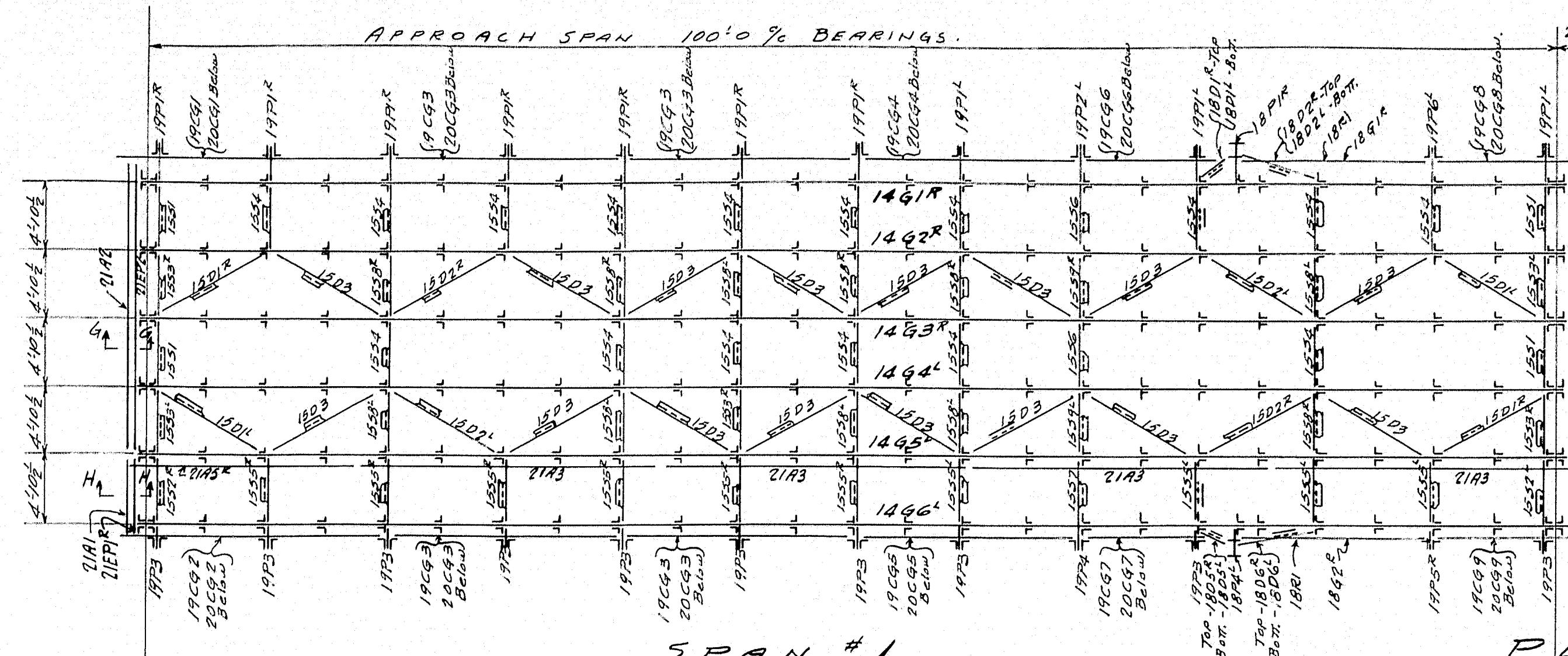
NOTE:
ALL SHIMS TO BE .010 THICK.
ALL SHIMS TO HAVE HOLES TO MATCH THEIR BEARING.

MAINE STATE HIGHWAY SPEC'S.
SPECIFICATIONS FOR STEEL HIGHWAY BRIDGES.

INSPECTION PITTSBURG TESTING LAB.

GENERAL NOTES
ALL STEEL CASTINGS & FORGINGS TO BE ANNEALED
SPOT FACE FOR ALL BOLT HEADS & NUTS
SCRIBE PITCH LINES ON BOTH SIDES OF ALL GEARS
SHOP PAINT—ONE COAT—
FINISHED SURFACES COATED—NO OX-ID GREASE
CUT OIL GROOVES IN ALL BEARINGS UNLESS NOTED
ALL SHIMS TO BE DRILLED

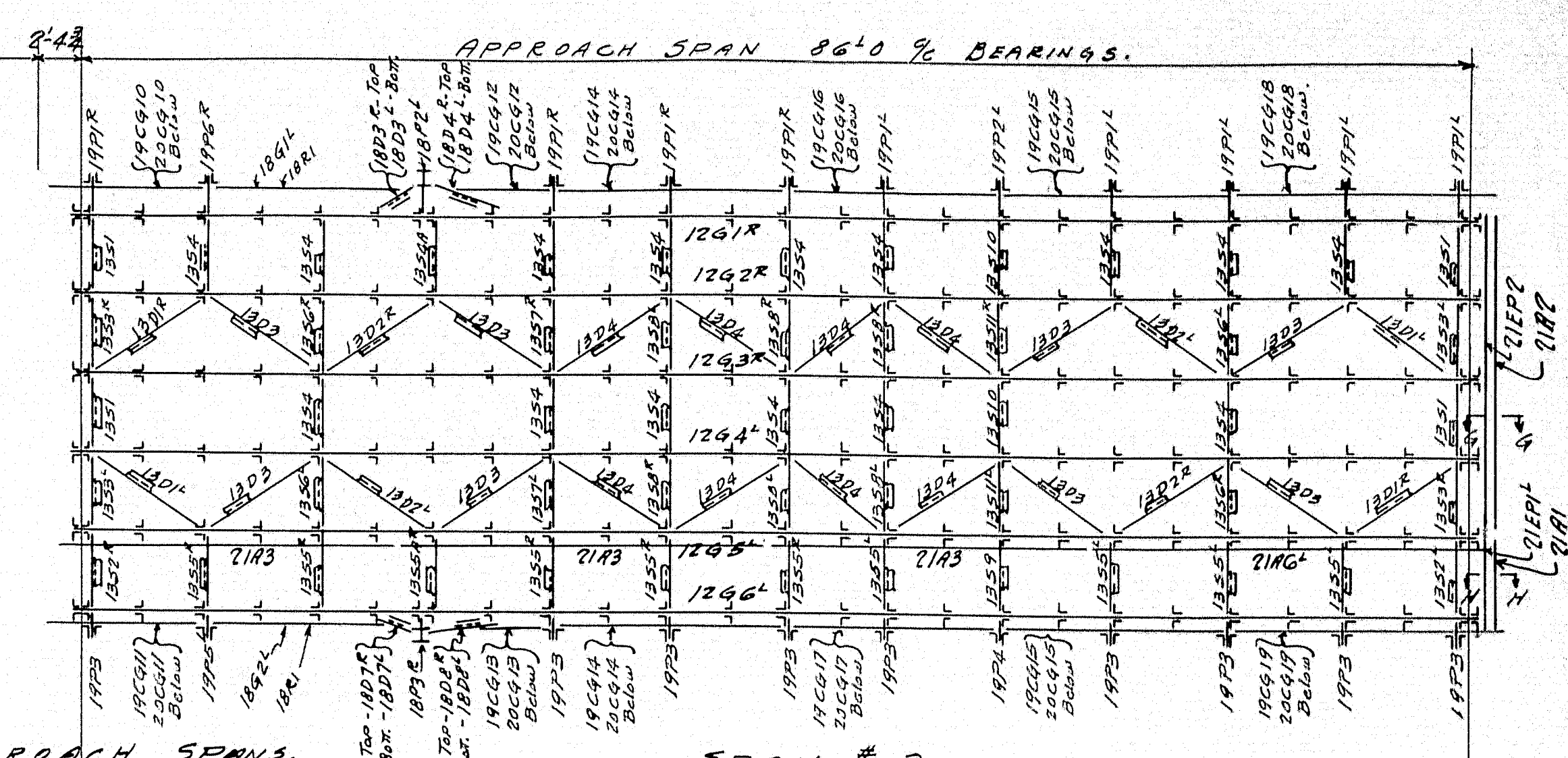
S.O. B-2141
OPERATING MACHINERY
SOUTHPORT BRIDGE
FOR
STATE OF MAINE
LACKAWANNA STEEL CONST. CORP.-CONTRACTOR.
PWA PROJECT No MAINE 1120-F.
THE EARLE GEAR AND MACHINE COMPANY
4707 TO 4715 ST. MARY AVENUE
PHILADELPHIA PA.
DRAWN BY GROSSER
CHECKED BY R.P. 2-15-39
DATE: MAY 2-21-39
SHEET 11 OF 30
DWG. 4250-E
FILE NO. 38-32



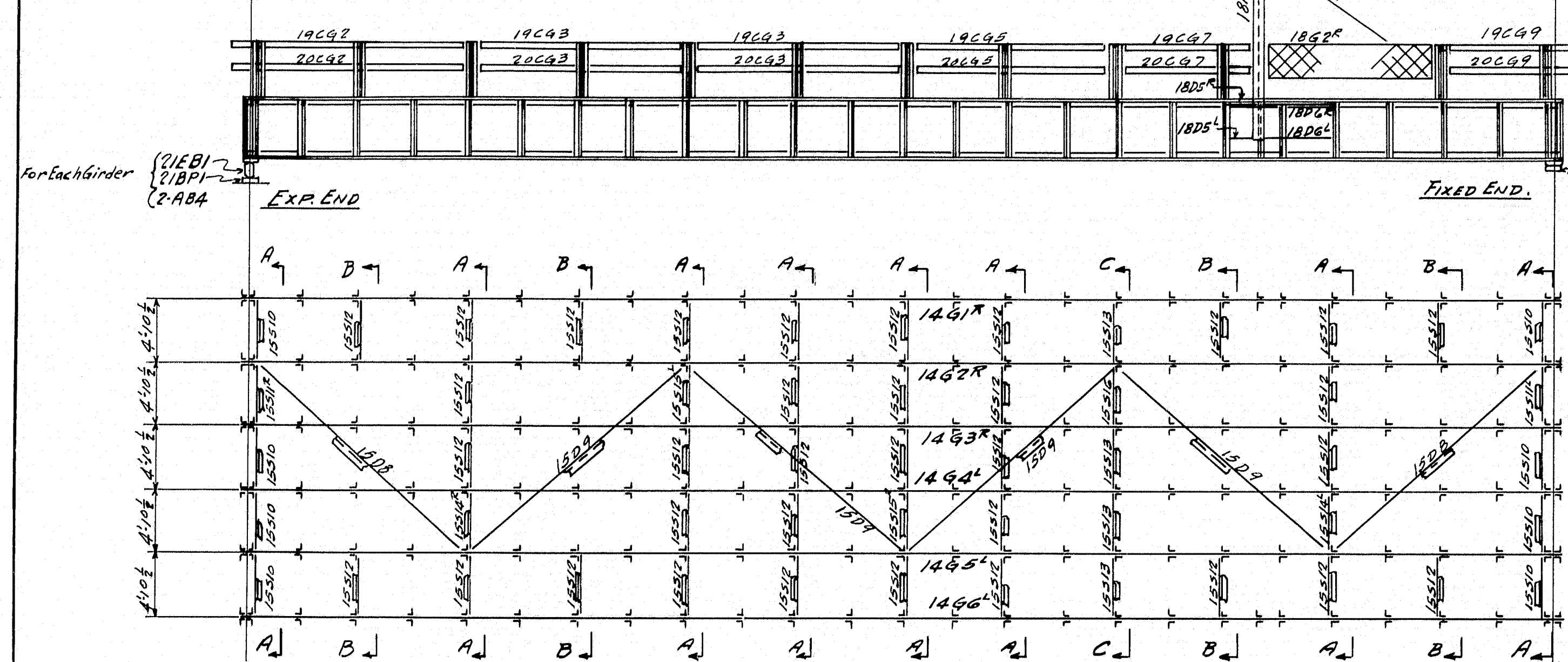
SPAN #1

ERECTION PLAN OF
TRUSS SPAN SHOWN ON
SHEET # E1

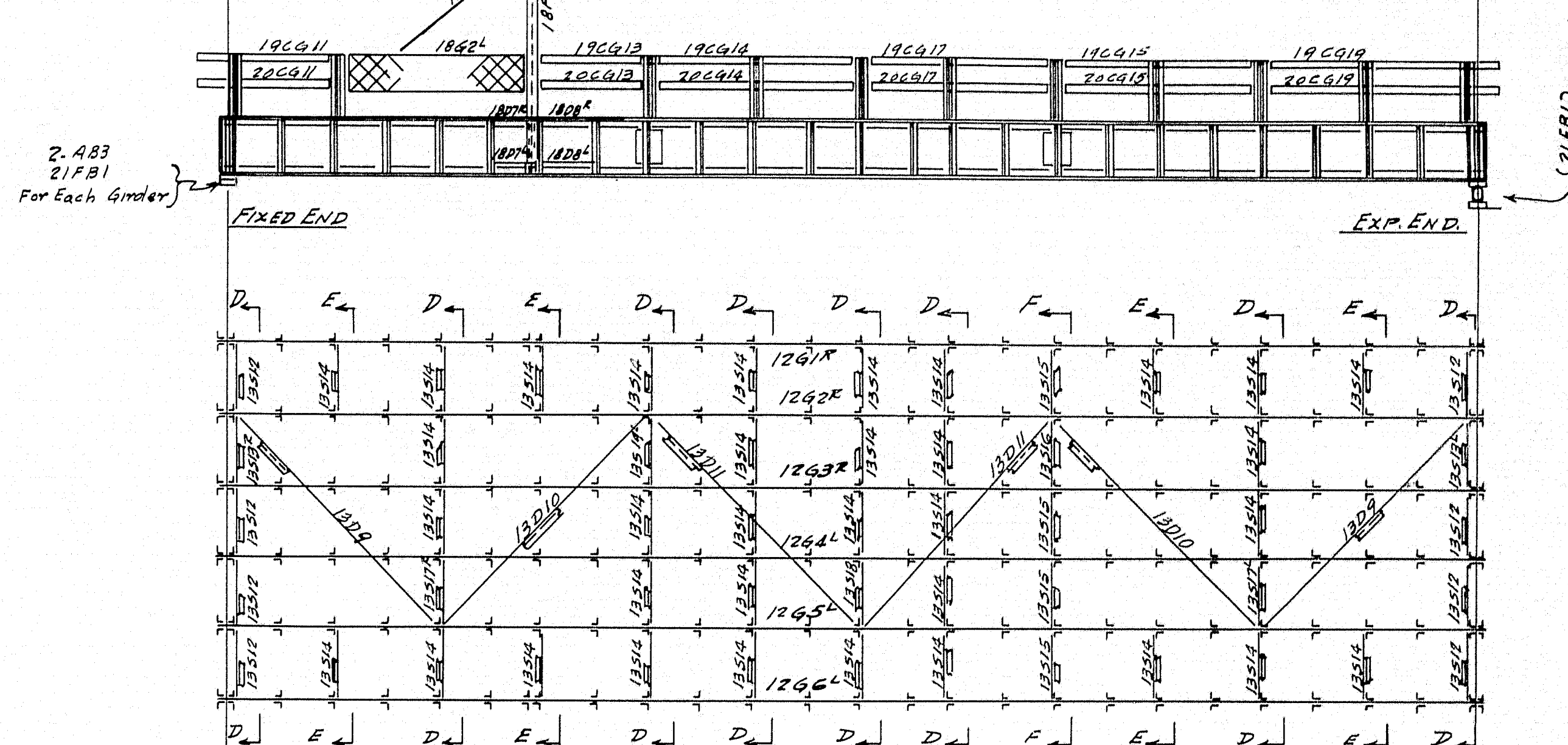
PLAN OF TOP FLANGES OF APPROACH SPANS.



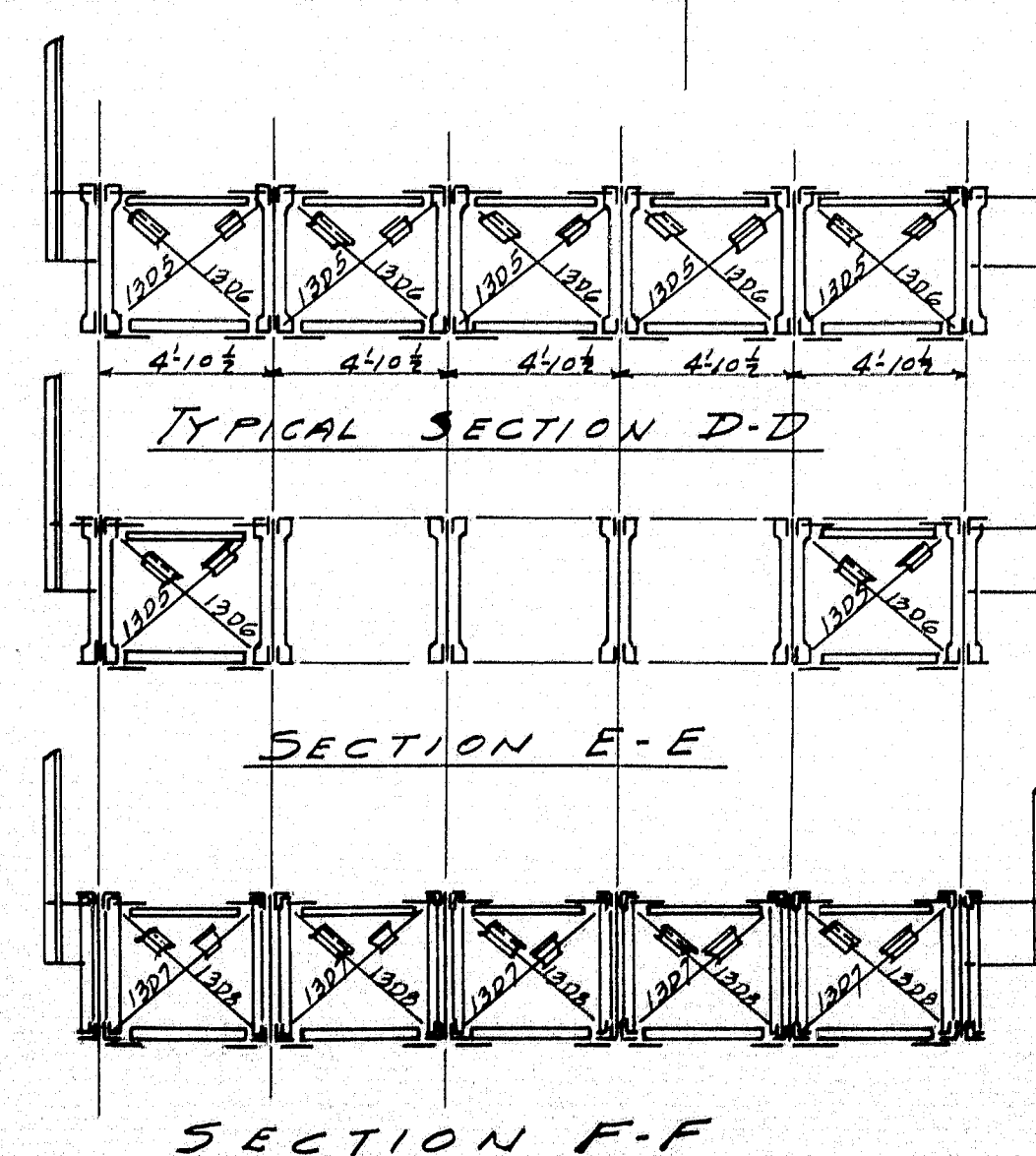
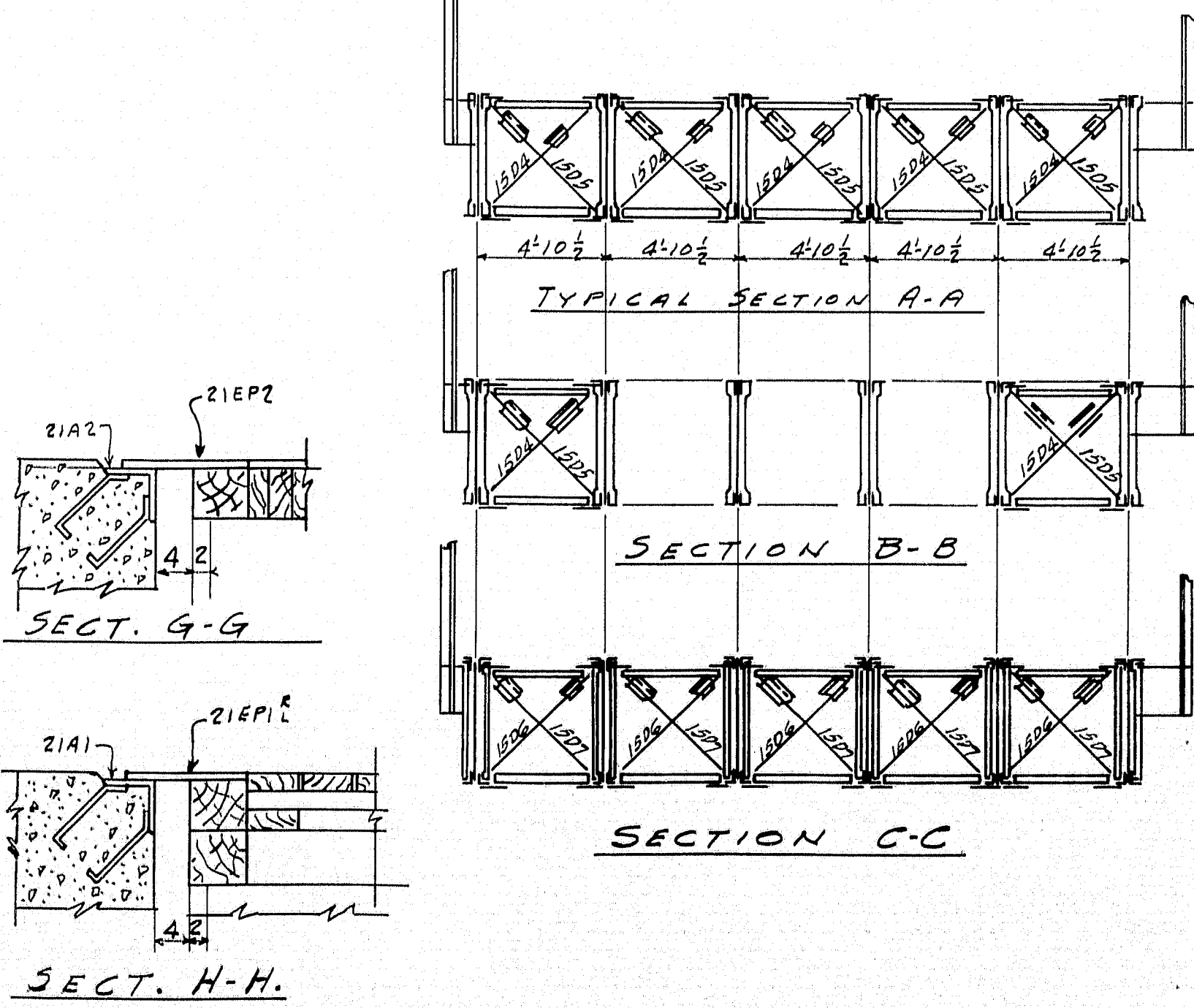
SPAN #3



NORTH ELEVATION.



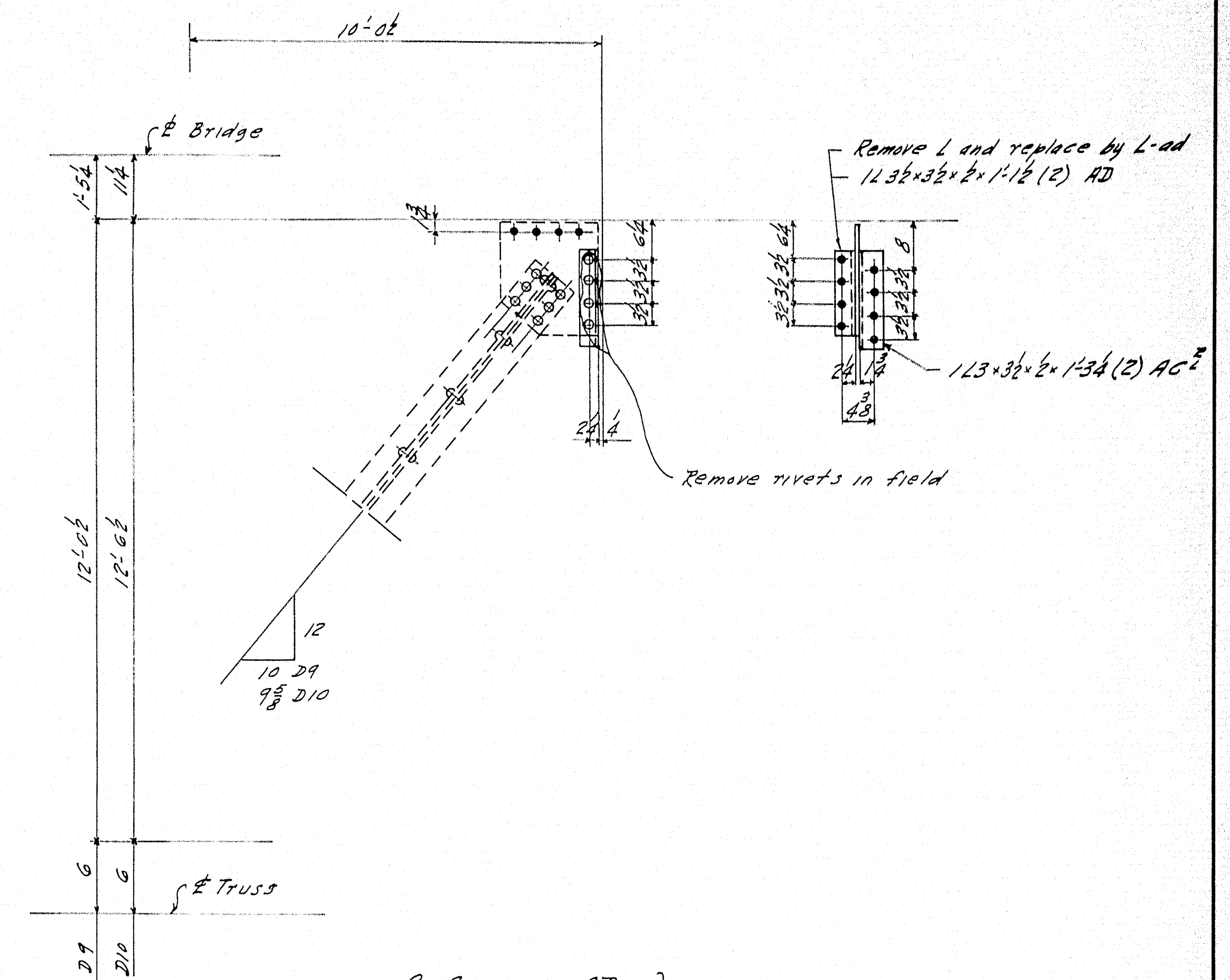
PLAN OF BOTTOM FLANGES OF APPROACH SPANS.



NOTE:
All Field Conns. Riveted Except Guard
Railing To Be Bolted

STATE OF MAINE
SOUTHPORT BRIDGE
OVER
TOWNSEND GUT
BETWEEN THE TOWNS OF
SOUTHPORT AND BOOTHBAY HARBOR
LINCOLN COUNTY.
PWA PROJECT NO MAINE/120-F

INSPECTION	SHOP RIVETS	WEIGHT
P.T.L.		
RIVETS $\frac{3}{8}$ & $\frac{1}{2}$ OPEN HOLES	UNLESS NOTED	
LACKAWANNA STEEL CONSTRUCTION CORP'N BUFFALO, N. Y.		
STRUCTURE SOUTHPORT BRIDGE		
FOR STATE OF MAINE		
DETAILS OF ERECTION PLAN OF APPROACH SPANS		
SPECIFICATIONS MAINE STEEL HIGHWAY BRIDGE 1977		
SHOP PAINT GRYED LEAD PER SPEC. (SEE NOTES)		
FIELD PAINT TOUCH UP COAT ONLY EXPOSED SURF.		
DRAWN BY	DATE	CHECKED BY
RAM	2/6/89	RM
DATE	BY	DESCRIPTION
1		
2		
3		
4		
5		
CONTRACT No. 3337		SHEET No. E2



2-ANGLES-AD }
 1- DO - AC^R } FOR-TD9^R and TD10^L
 1- DO - AC^L } OPP.HAND



35 RIVETS $\frac{7}{8}$ x 2 $\frac{5}{8}$
65 " " x 2 $\frac{1}{2}$
15 " " x 2 $\frac{5}{8}$
10 " " x 2 $\frac{7}{8}$

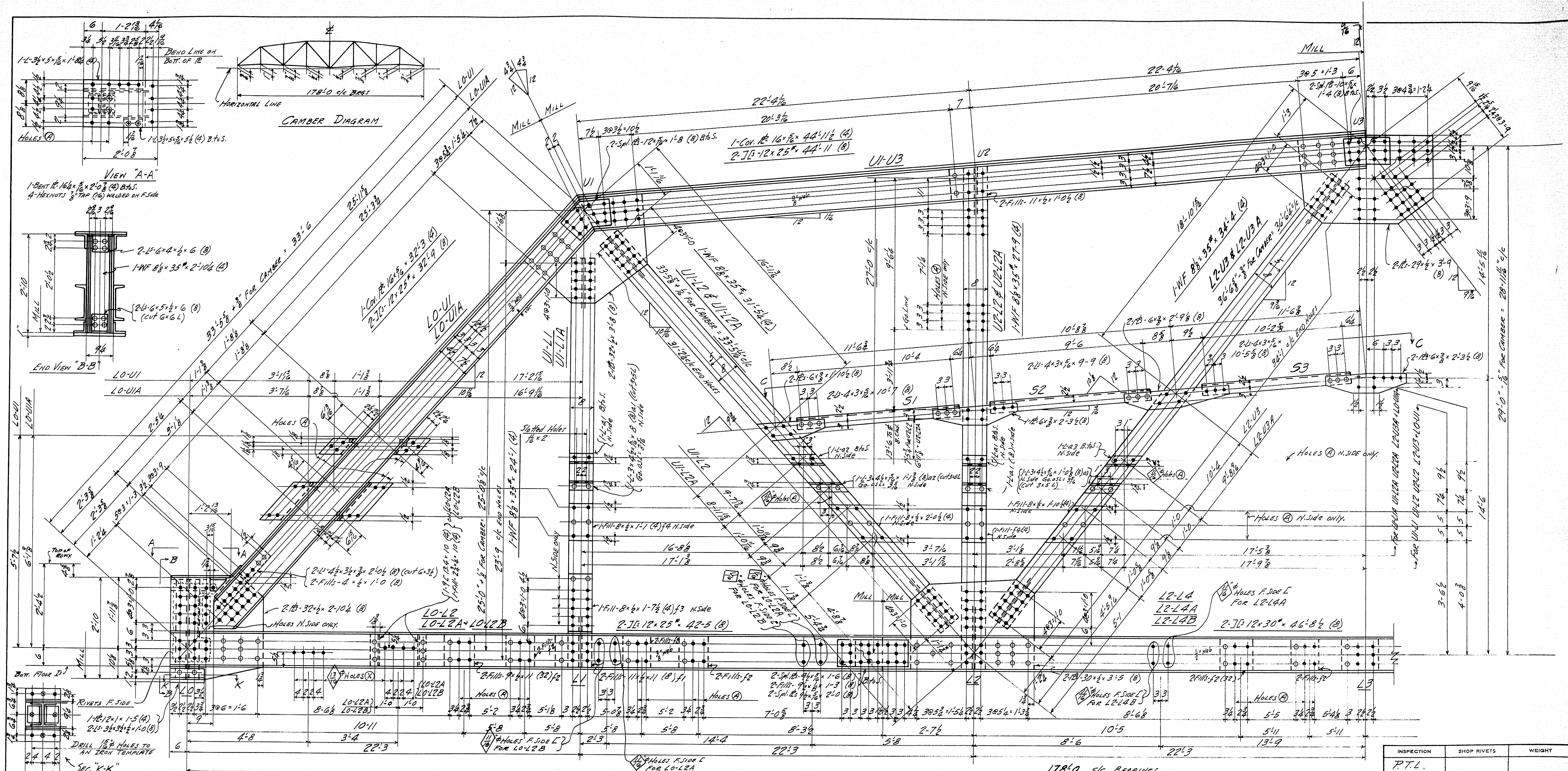
Existing Members shown _____

NOTE -

Do not paint shop or field contact surfaces.

INSPECTION		SHOP RIVETS		WEIGHT	
P.T.L.					
RIVETS 7 ϕ		OPEN HOLES 15 ϕ		UNLESS NOTED	
<p>LACKAWANNA STEEL CONSTRUCTION CORPN</p> <p>BUFFALO, N. Y.</p>					
STRUCTURE 128'-0" SPAN, SPAN BRIDGE					
FOR STATE OF MAINE					
DETAILS OF OPERATIONS & ADDITIONS TO MOCH. SURVEY					
SPECIFICATIONS MAINE STEEL HIGHWAY BRIDGE 1937					
SHOP PART FOR R.R. LEAD, P.C. SPEC'S - SEE NOTES					
FIELD PART. TUCKER UP CART ONLY - SAME AS SHOP					
DRAWN BY		CHECKED BY		DATE SQUAD FOREMAN	
E.W.		E.W.		9/4/37 Buck	
REVISIONS	NO.	DATE	BY	DESCRIPTION	
	1.				
	2.				
	3.				
	4.				
<p>CONTRACT NO. 3337^{1X} SHEET NO.</p> <p>1</p>					

STATE OF MAINE
SOUTHPORT BRIDGE
OVER
TOWNSEND GUT
BETWEEN THE TOWNS OF
SOUTHPORT & BOOTHBAY HARBOR
LINCOLN COUNTY
P.W.A. PROJECT NO MAINE 1120-F



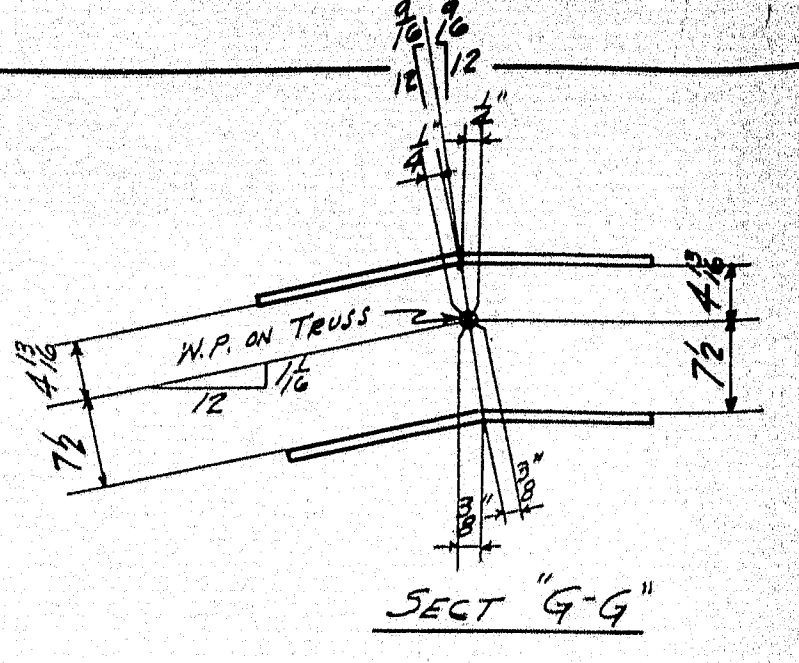
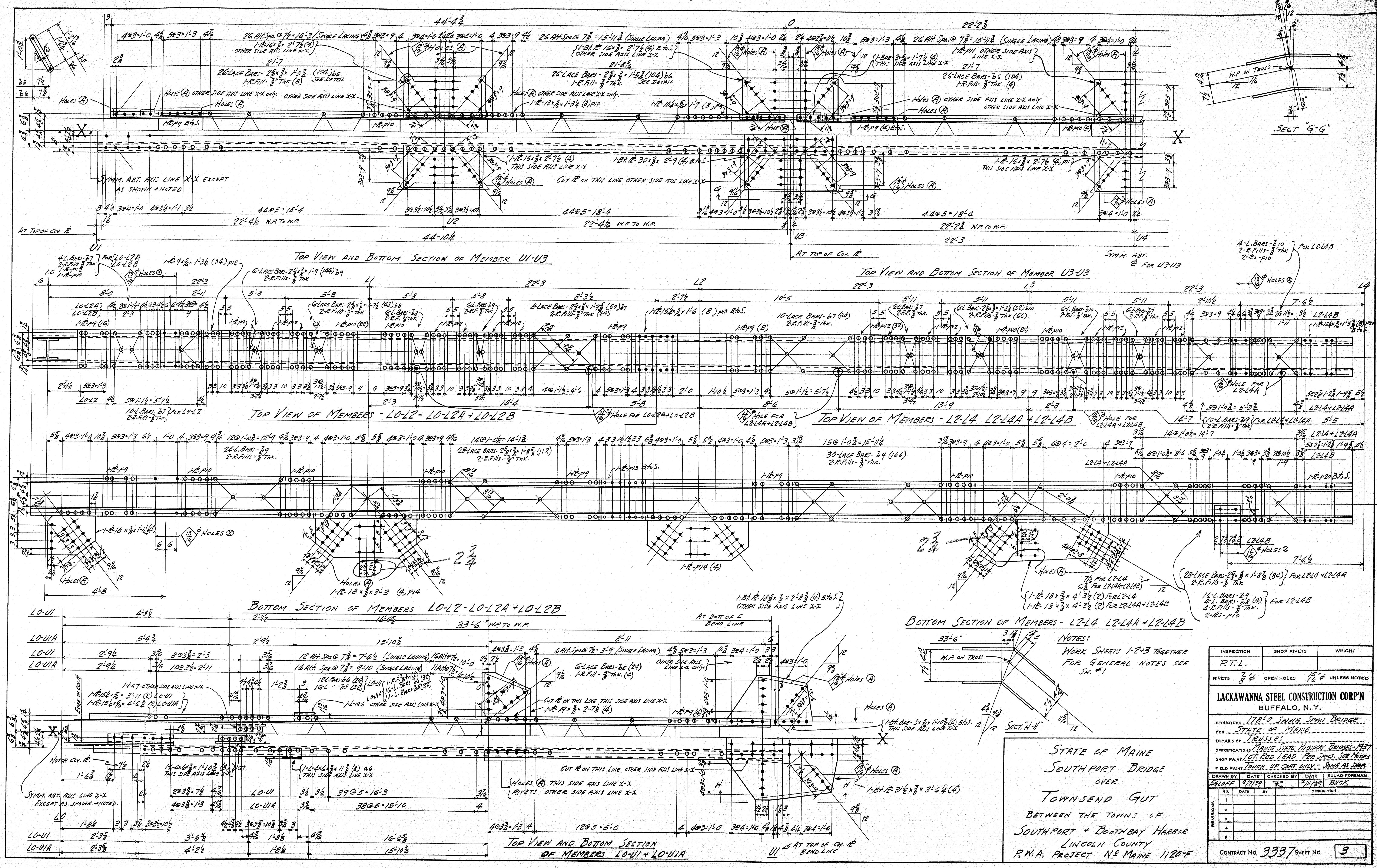
INSPECTION	SHOP RIVETS	WEIGHT
PTL		
RIVETS	3/8"	OPEN HOLES 1/8" UNLESS NOTED

LACKAWANNA STEEL CONSTRUCTION CORP. BUFFALO, N. Y.			
STRUCTURE	178'0" SWING SPAN BRIDGE		
FOR	STATE OF MAINE		
DETAILS OF	TRUSSES		
SPECIFICATIONS	MAINE STEEL HIGHWAY BRIDGE 1937		
SHOP PAINT	1/2" LEAD PER SPEC. - SEE NOTES		
FIELD PAINT	TWO COAT ONLY - SHEAR SHOP		
DRAWN BY	DATE	CHECKED BY	DATE
ELGAR	1/25/37	R	5/1/37
NO.	DATE	BY	DESCRIPTION
1			
2			
3			
4			

ONE - BOTTOM CHORD - 110-L2 ² AS SHOWN + NOTED.		2 - TOP CHORDS - 111-U3 ² AS SHOWN		ONE - DIAGONAL - 111-L2 ² AS SHOWN + NOTED	
ONE - " - 110-L2 ² APP. HAND + "		2 - " - 111-U3 ² APP. HAND		ONE - " - 111-L2 ² APP. HAND + "	
ONE - " - 110-L2A ² AS SHOWN + "		2 - POSTS - 111-L1		ONE - " - 111-L2A ² APP. HAND + "	
ONE - " - 110-L2B ² APP. HAND + "		2 - " - 111-L1A		ONE - " - 111-L2B ² APP. HAND + "	
ONE - " - 112-L4 ² AS SHOWN + "		ONE - " - 112-L2 ² APP. HAND + NOTED		ONE - " - 112-L3 ² AS SHOWN + "	
ONE - " - 112-L4A ² APP. HAND + "		ONE - " - 112-L2A ² APP. HAND + "		ONE - " - 112-L3A ² APP. HAND + "	
ONE - " - 112-L4B ² APP. HAND + "		ONE - " - 112-L2B ² APP. HAND + "		ONE - " - 112-L3B ² APP. HAND + "	

ONE - END POST - 110-U1 ² AS SHOWN + NOTED.		4 - STRUTS - 151	
ONE - " - 110-U1 ² APP. HAND + "		4 - " - 152	
ONE - " - 110-U1A ² AS SHOWN + "		4 - " - 153	
ONE - " - 110-U1A ² APP. HAND + "			

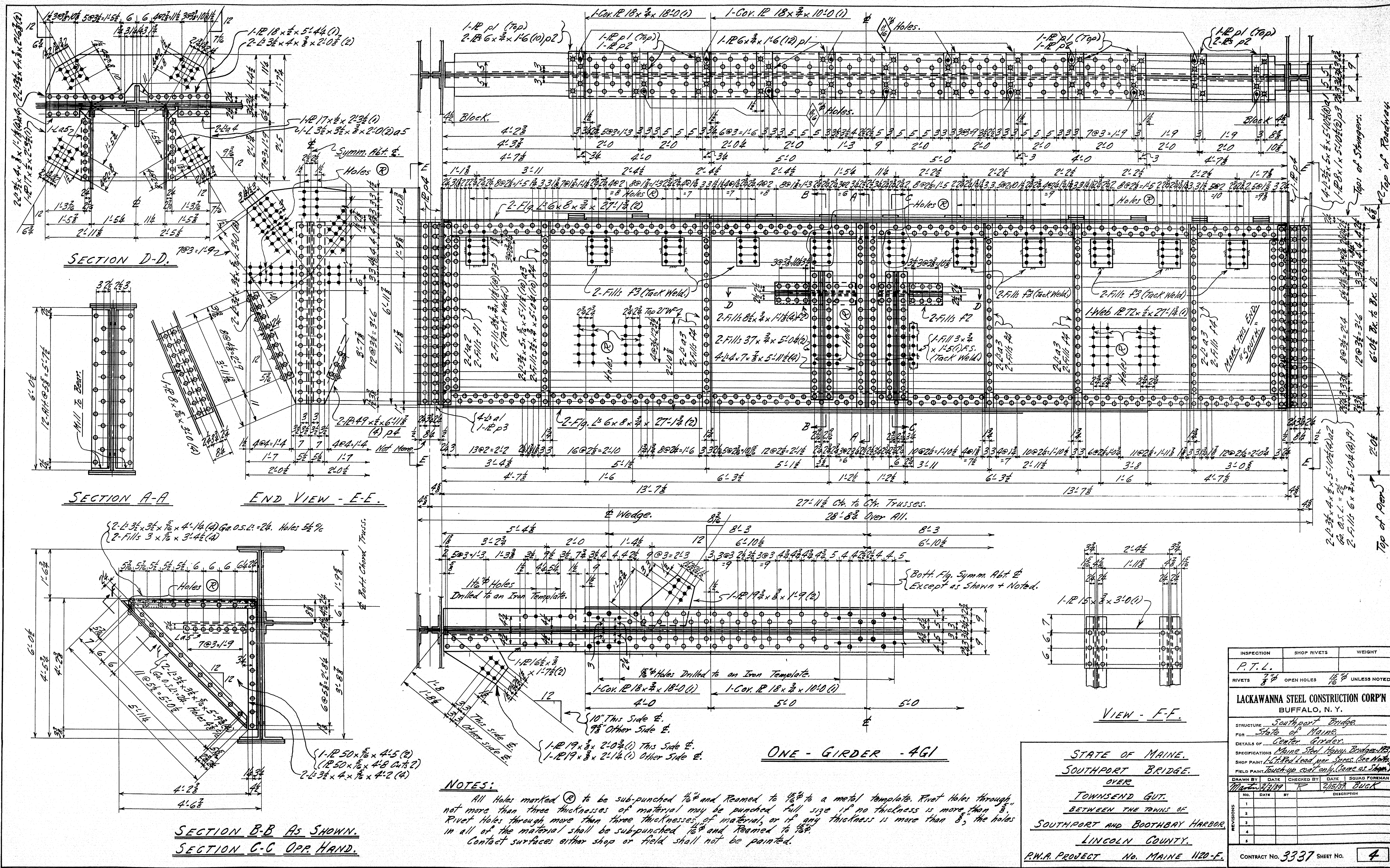
STATE OF MAINE
SOUTHPORT BRIDGE
OVER
TOWNSEND GUT
BETWEEN THE TOWNS OF
SOUTHPORT & BOOTHBAY HARBOR
LINCOLN COUNTY
P.M.A. PROJECT NO. MAINE 1120-F



NOTES:
WORK SHEETS 1-2-3 TOGETHER
FOR GENERAL NOTES SEE
SN. #1

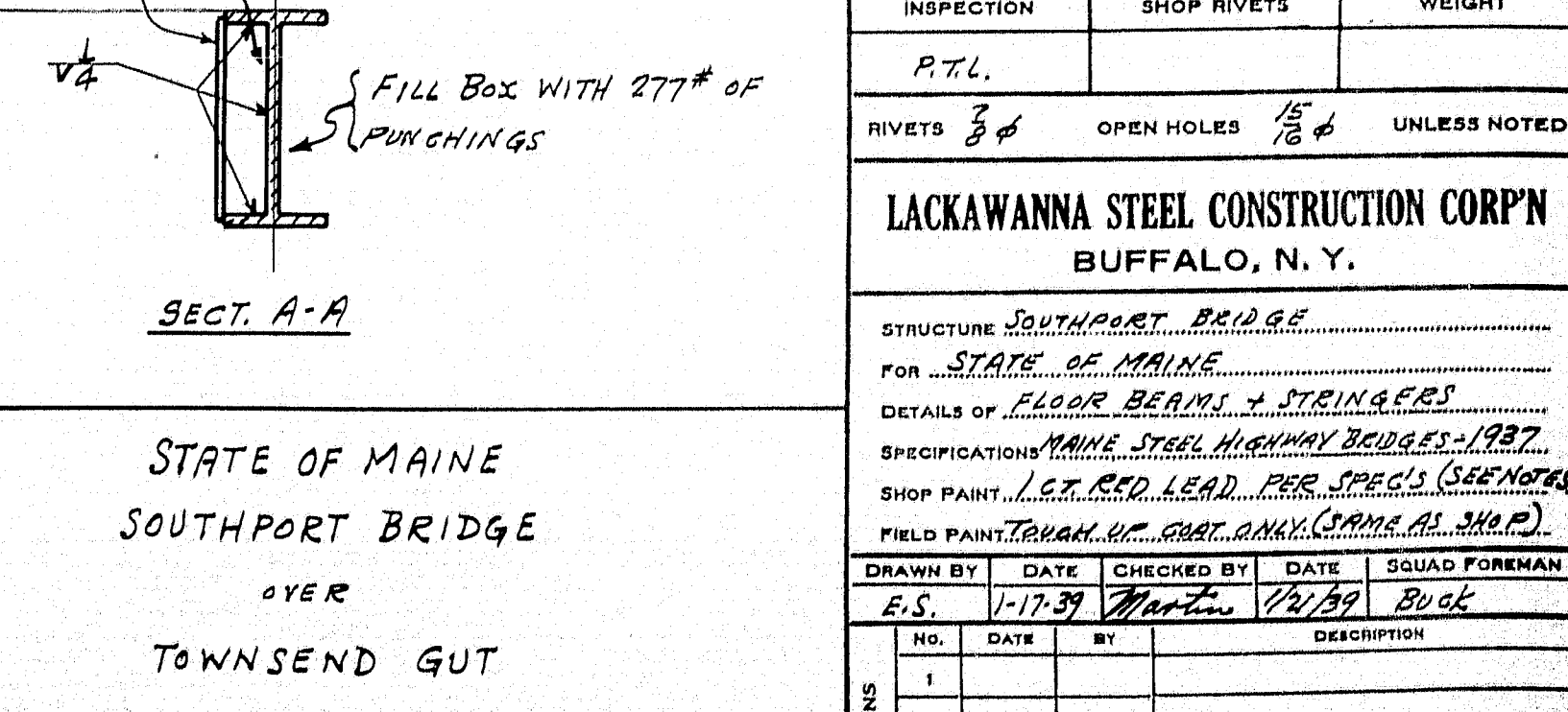
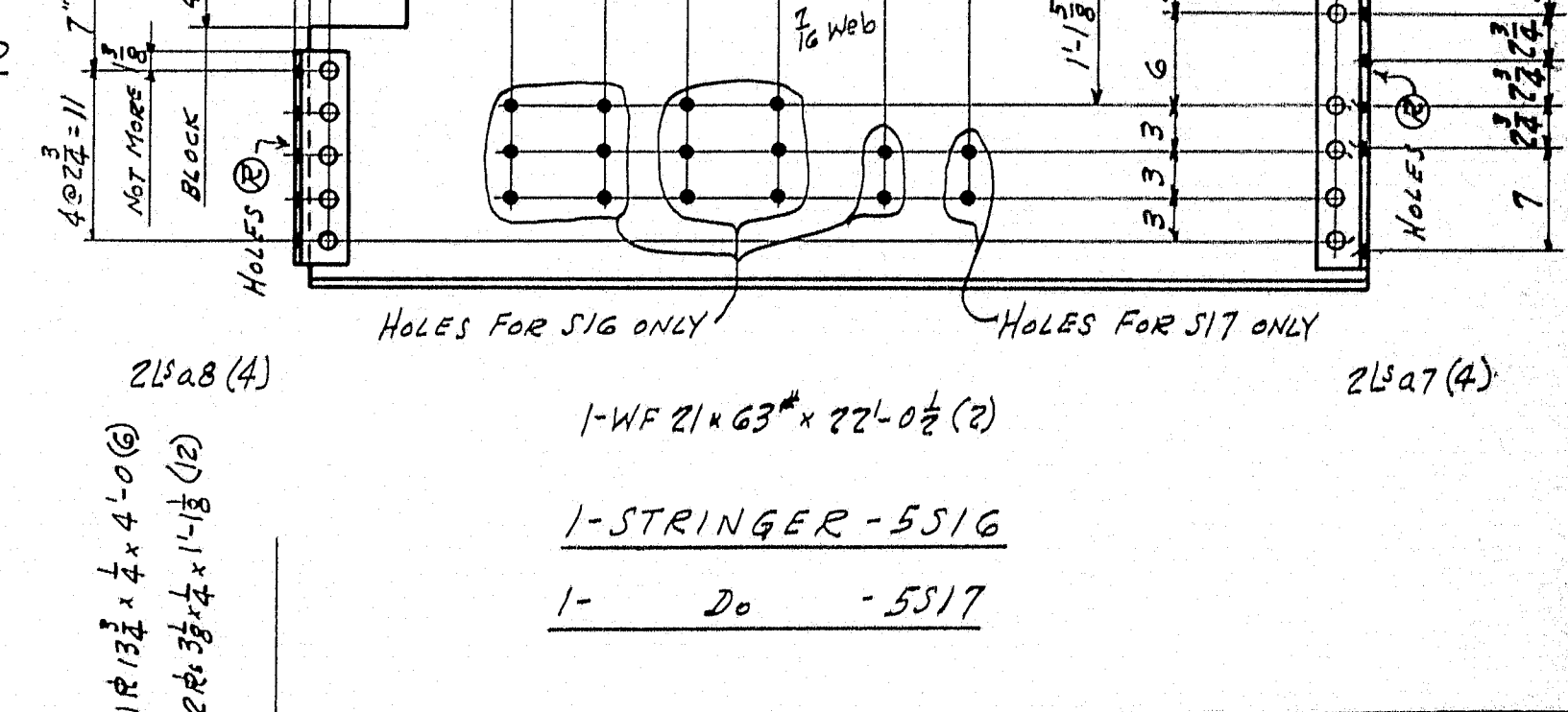
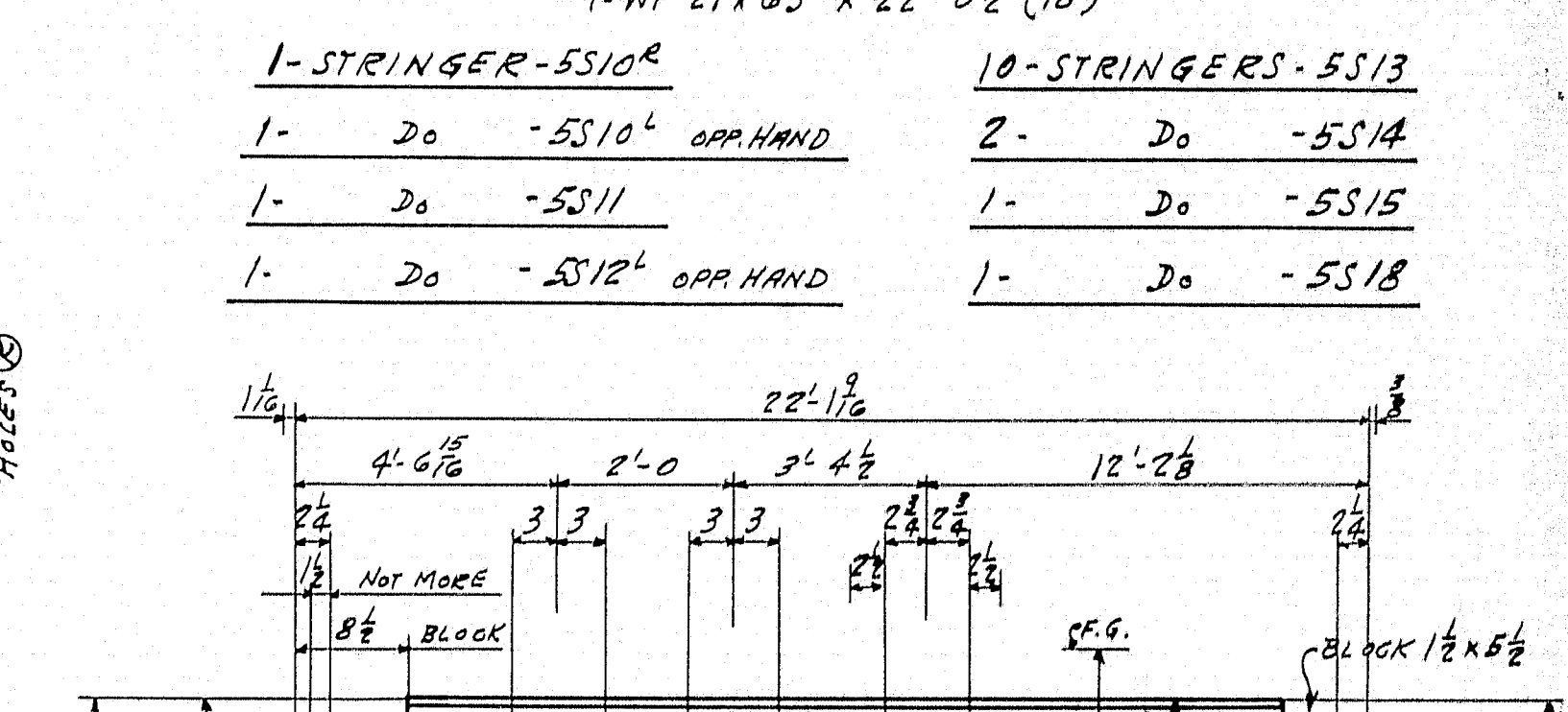
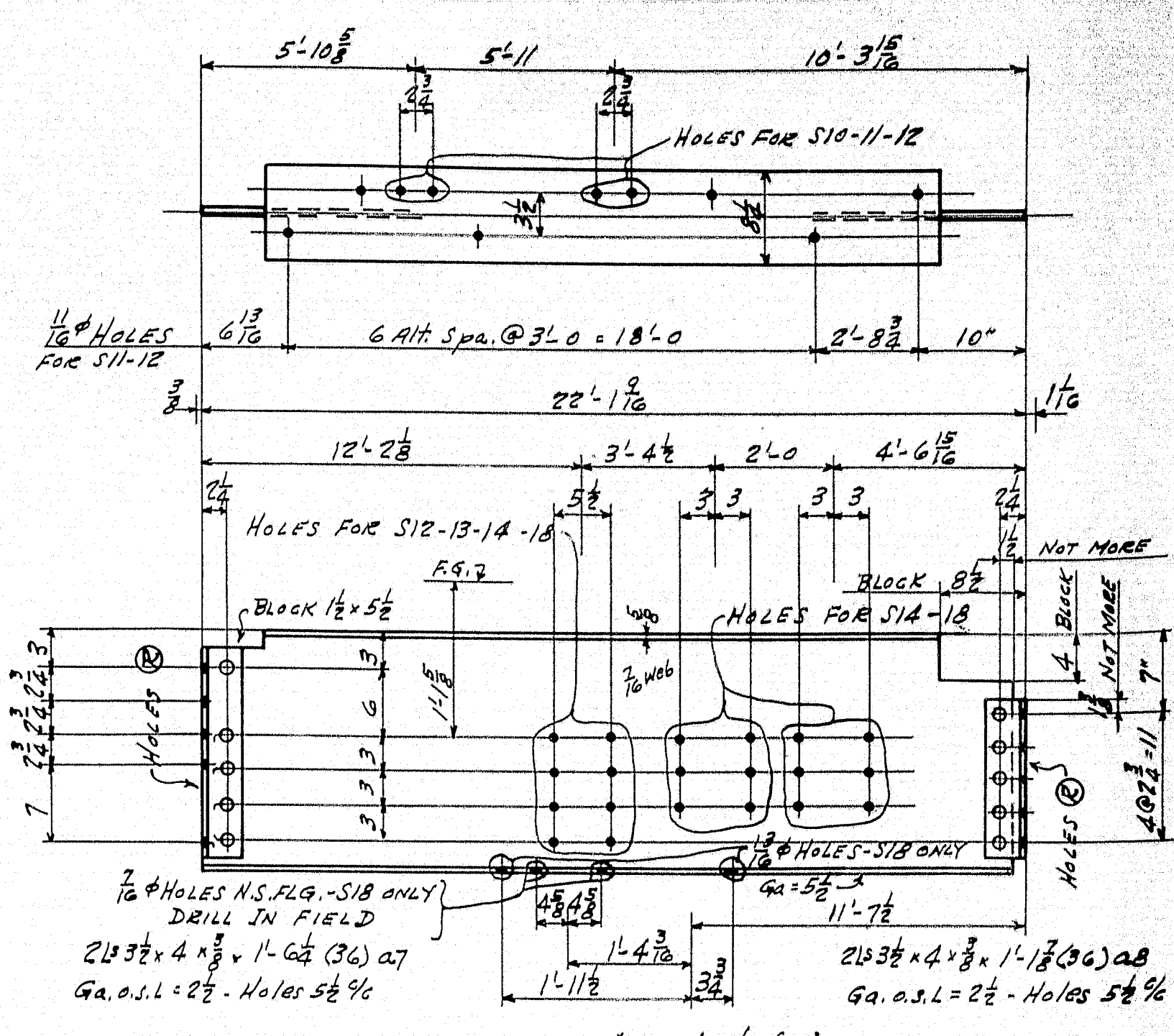
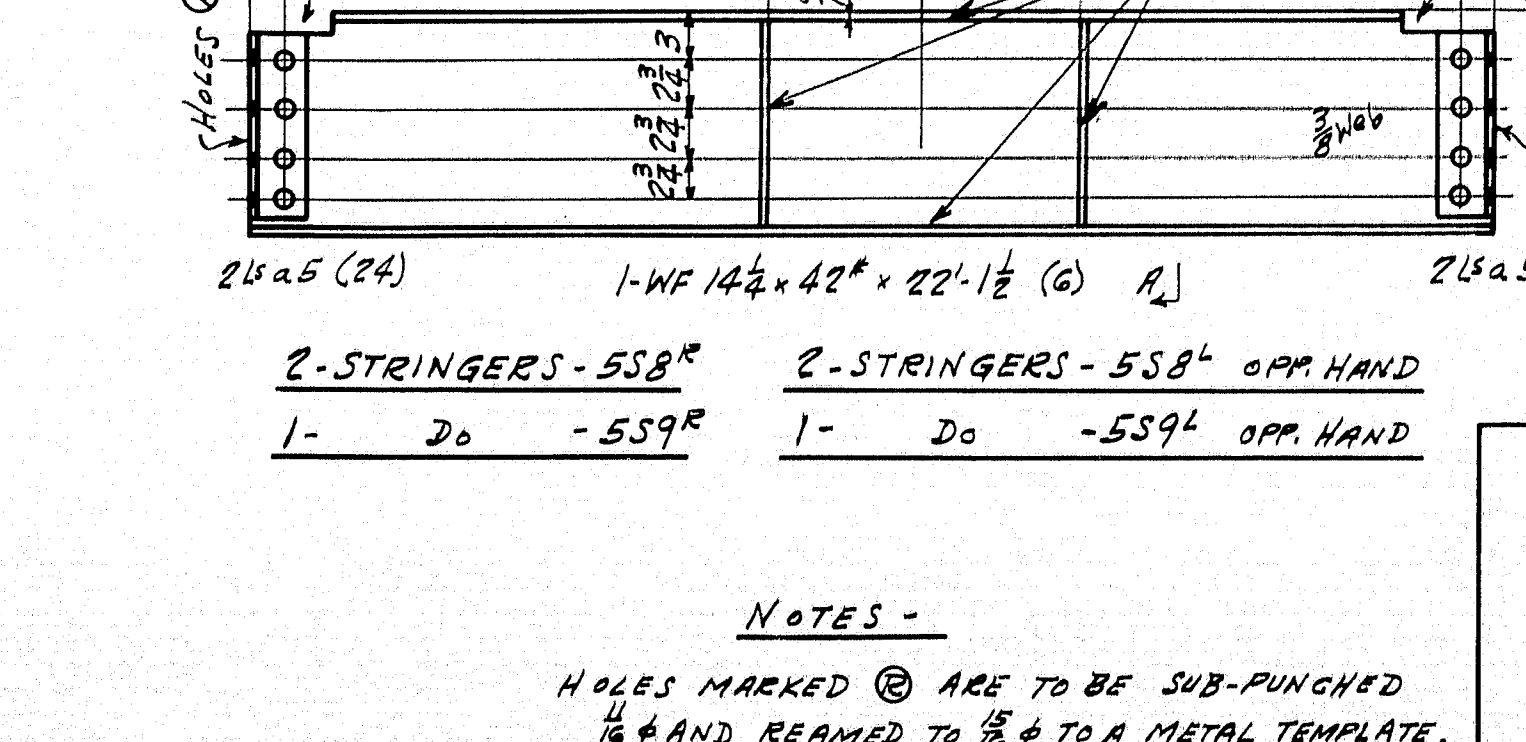
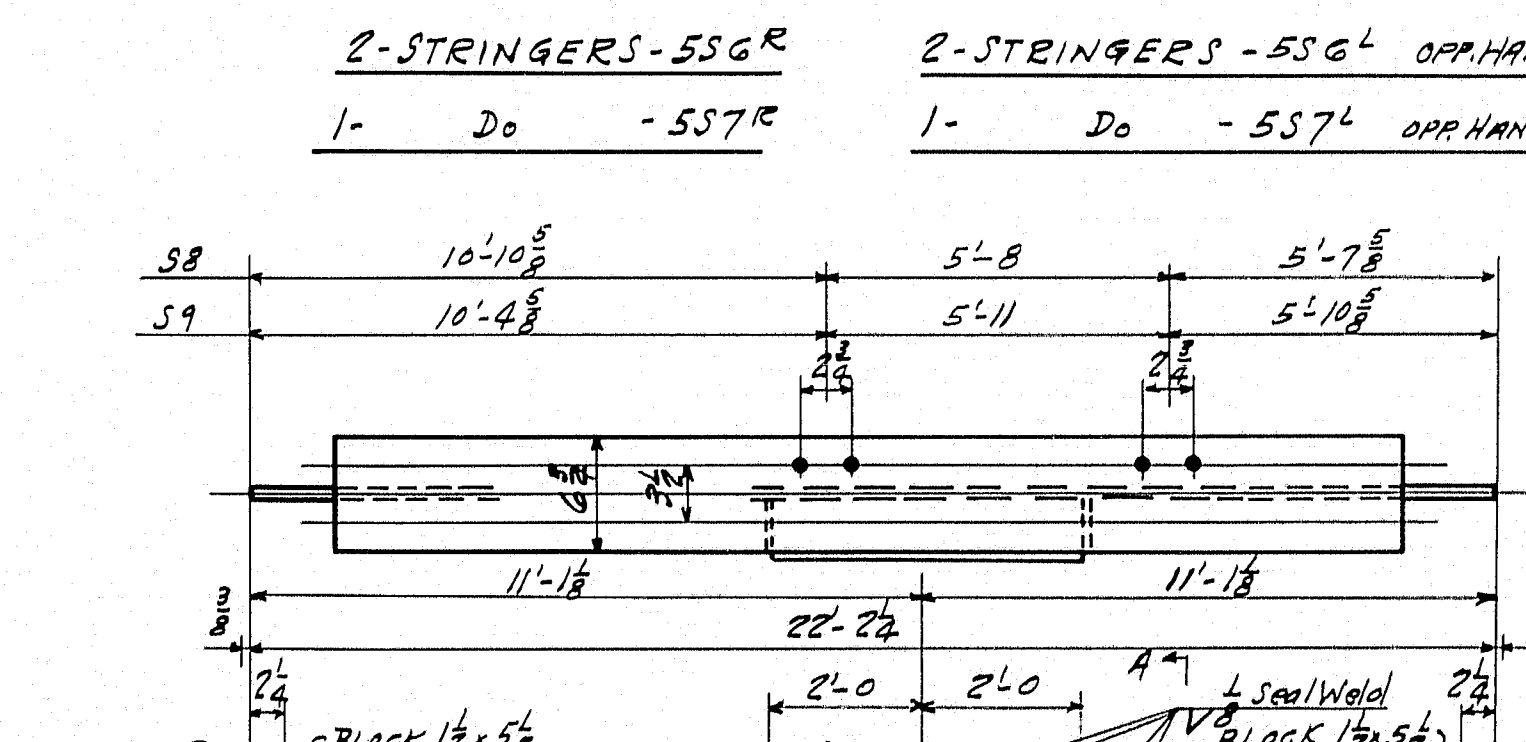
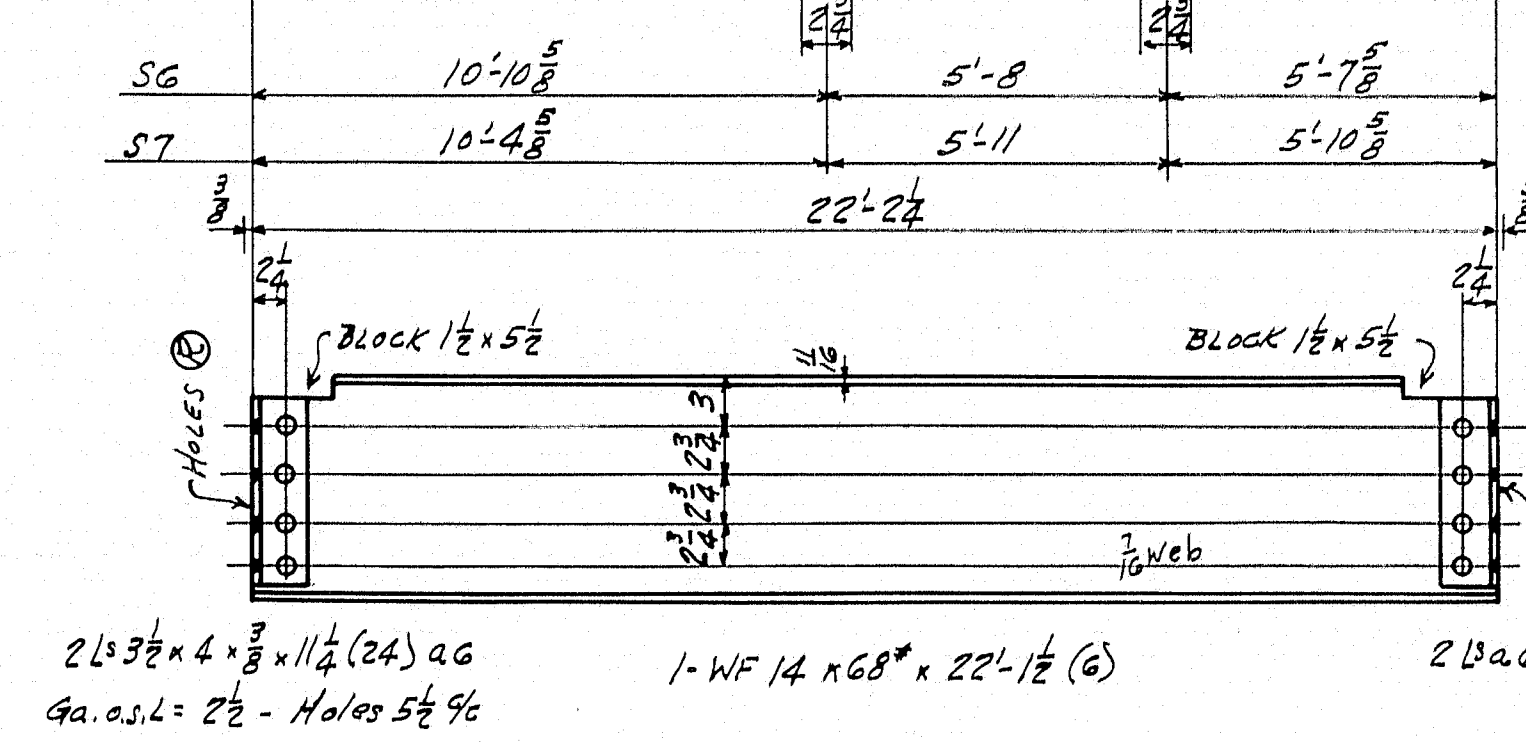
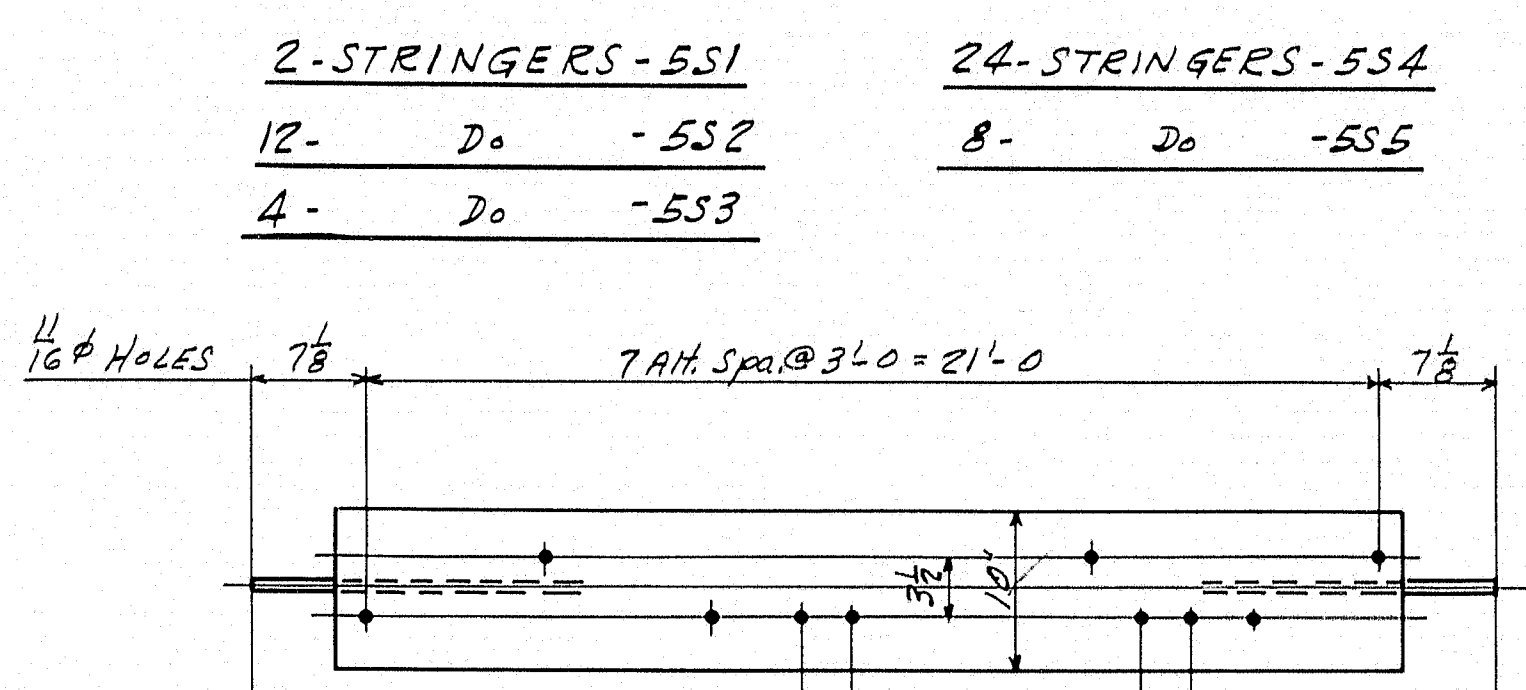
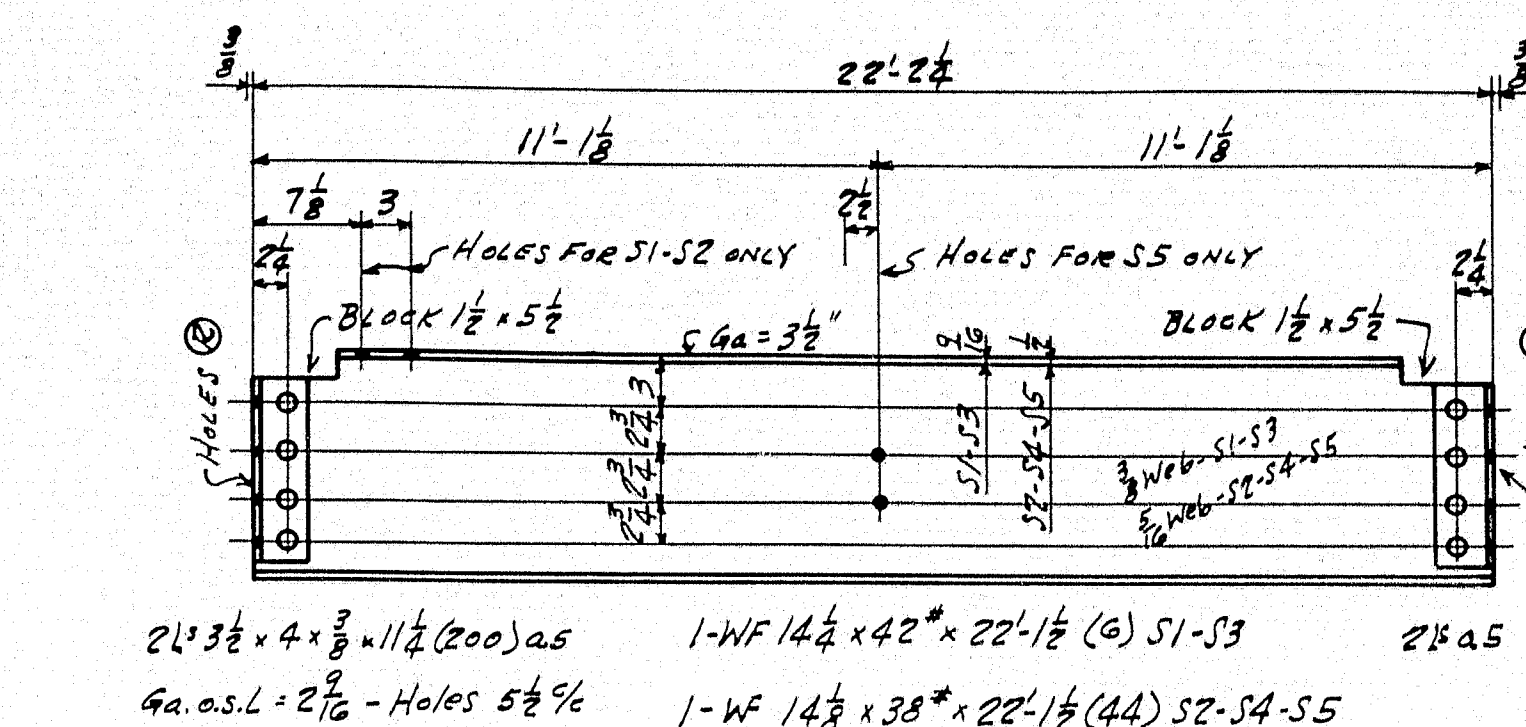
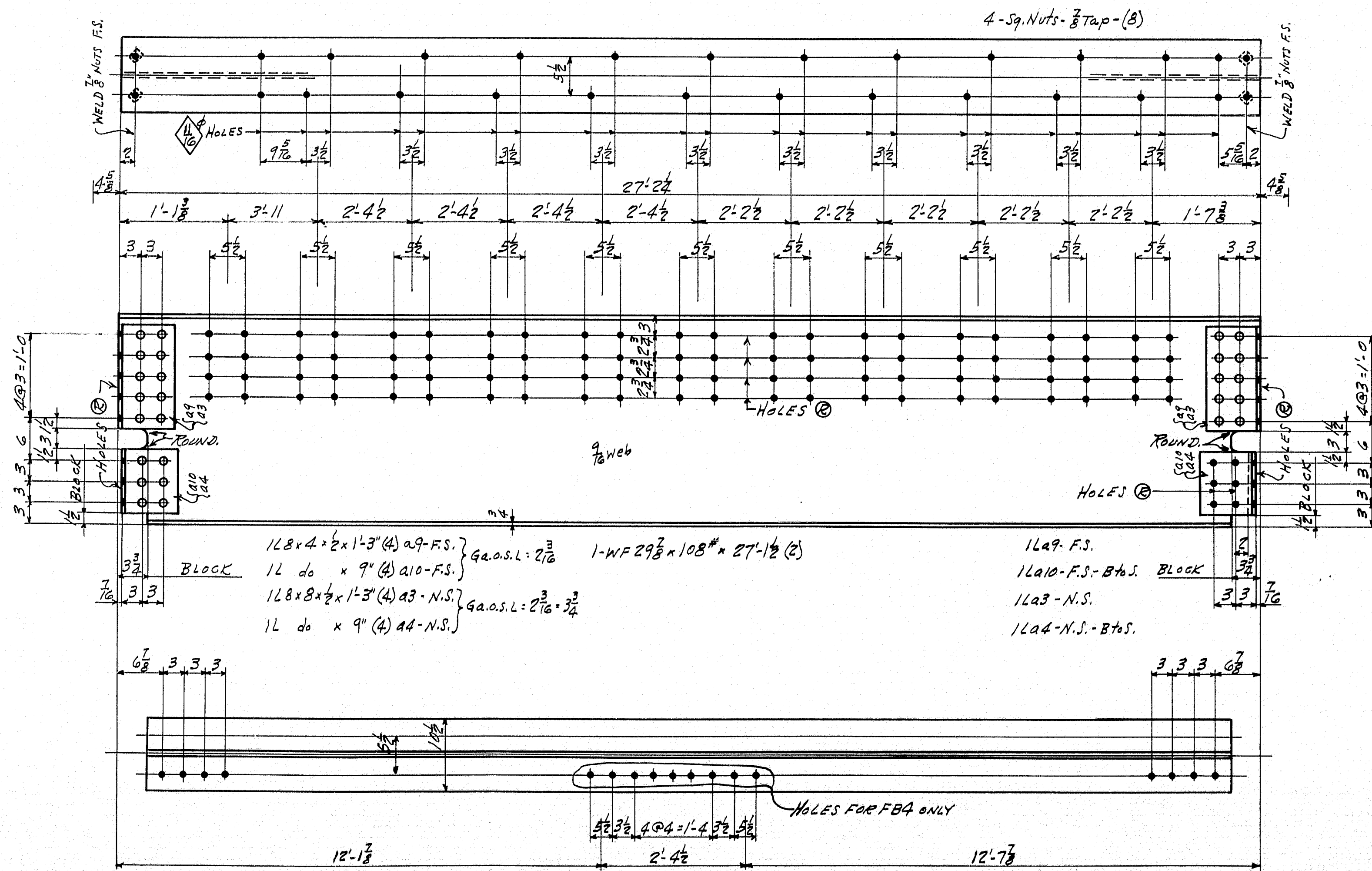
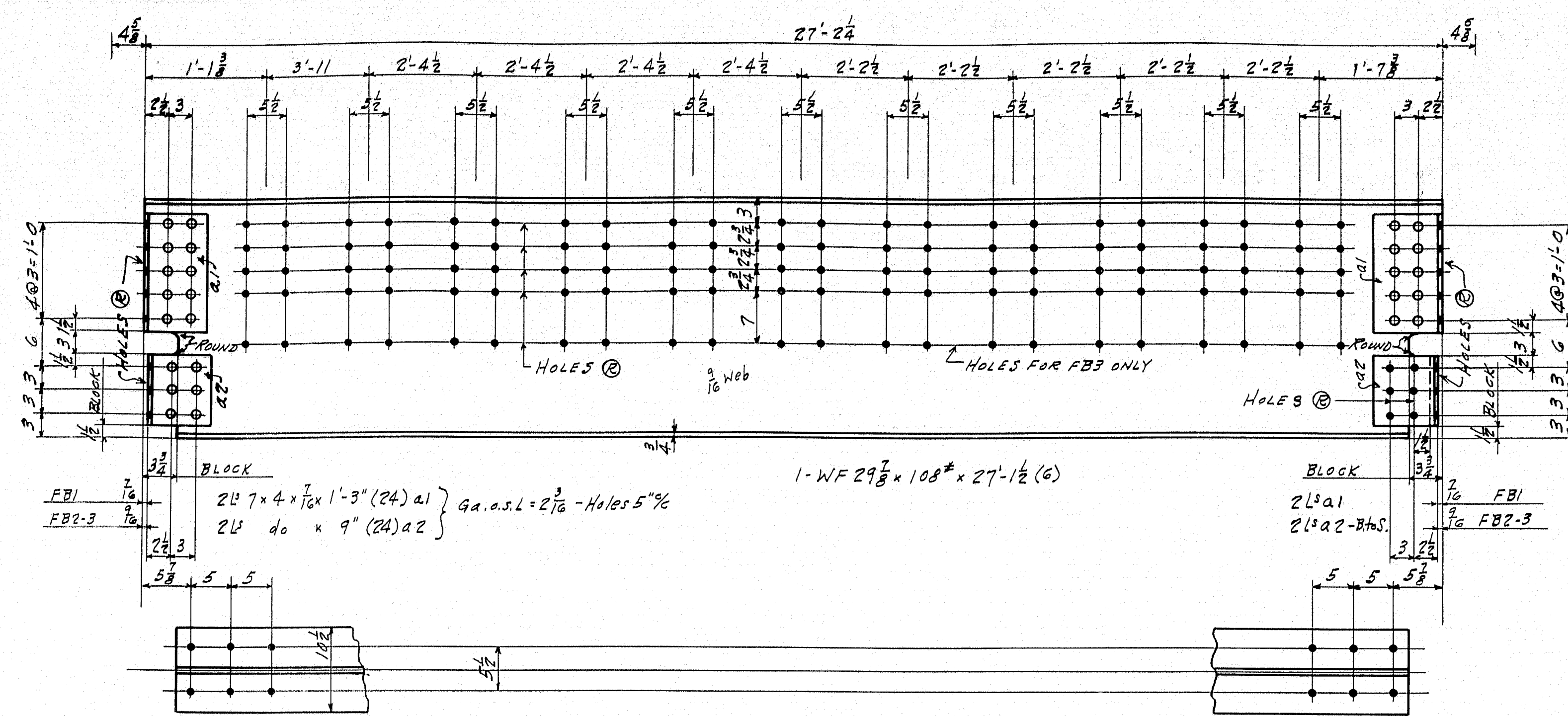
STATE OF MAINE
SOUTHPORT BRIDGE
OVER
TOWNSEND GUT
BETWEEN THE TOWNS OF
SOUTHPORT + BOOTHBAY HARBOR
LINCOLN COUNTY
P.M.A. PROJECT N.E. MAINE 1120-F

INSPECTION		SHOP RIVETS	WEIGHT
P.T.L.			
RIVETS	5/8"	OPEN HOLES	1/8" UNLESS NOTED
LACKAWANNA STEEL CONSTRUCTION CORP. BUFFALO, N. Y.			
STRUCTURE 178'0" SPAN BRIDGE			
FOR STATE OF MAINE			
DETAILS OF TRUSSES			
SPECIFICATIONS MAINE STATE HIGHWAY BRIDGES 1937			
SHOP PAINT 100% RED LEAD PER SPEC. SEE NOTES			
FIELD PAINT 100% RED LEAD ONLY - SAME AS SHOP			
DRAWN BY	DATE	CHECKED BY	DATE
24040P	2/11/39	R	2/11/39
SQUAD FOREMAN		BUCK	
NO.	DATE	BY	DESCRIPTION
1			
2			
3			
4			
CONTRACT NO. 3337 SHEET NO. 3			



INSPECTION		SHOP RIVETS		WEIGHT	
P.T.L.					
RIVETS	7/8"	OPEN HOLES	1 1/2"	UNLESS NOTED	
LACKAWANNA STEEL CONSTRUCTION CORP'N BUFFALO, N. Y.					
STRUCTURE <u>Southport Bridge</u> FOR <u>State of Maine</u> DETAILS OF <u>Center Girder</u> SPECIFICATIONS <u>Maine Steel Copy Bridge</u> SHOP PAINT <u>1/2" Red Lead per Specs (See Notes)</u> FIELD PAINT <u>Touch-up coat only (Same as Shop)</u>					
DRAWN BY	DATE	CHECKED BY	DATE	SQUAD FOREMAN	
<u>Mat. 2/2/37</u>		<u>R</u>	<u>2/5/37</u>	<u>BUGK</u>	
NO.	DATE	BY	DESCRIPTION		
1					
2					
3					
4					
CONTRACT No. <u>3337</u>				SHEET No. <u>4</u>	

STATE OF MAINE.
 SOUTHPORT BRIDGE.
 OVER
 TOWNSEND CUT.
 BETWEEN THE TOWNS OF
 SOUTHPORT AND BOOTHBAY HARBOR.
 LINCOLN COUNTY.
 P.W.A. PROJECT No. MAINE 1120-F.

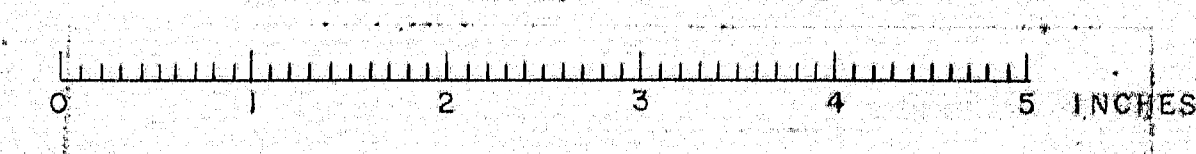


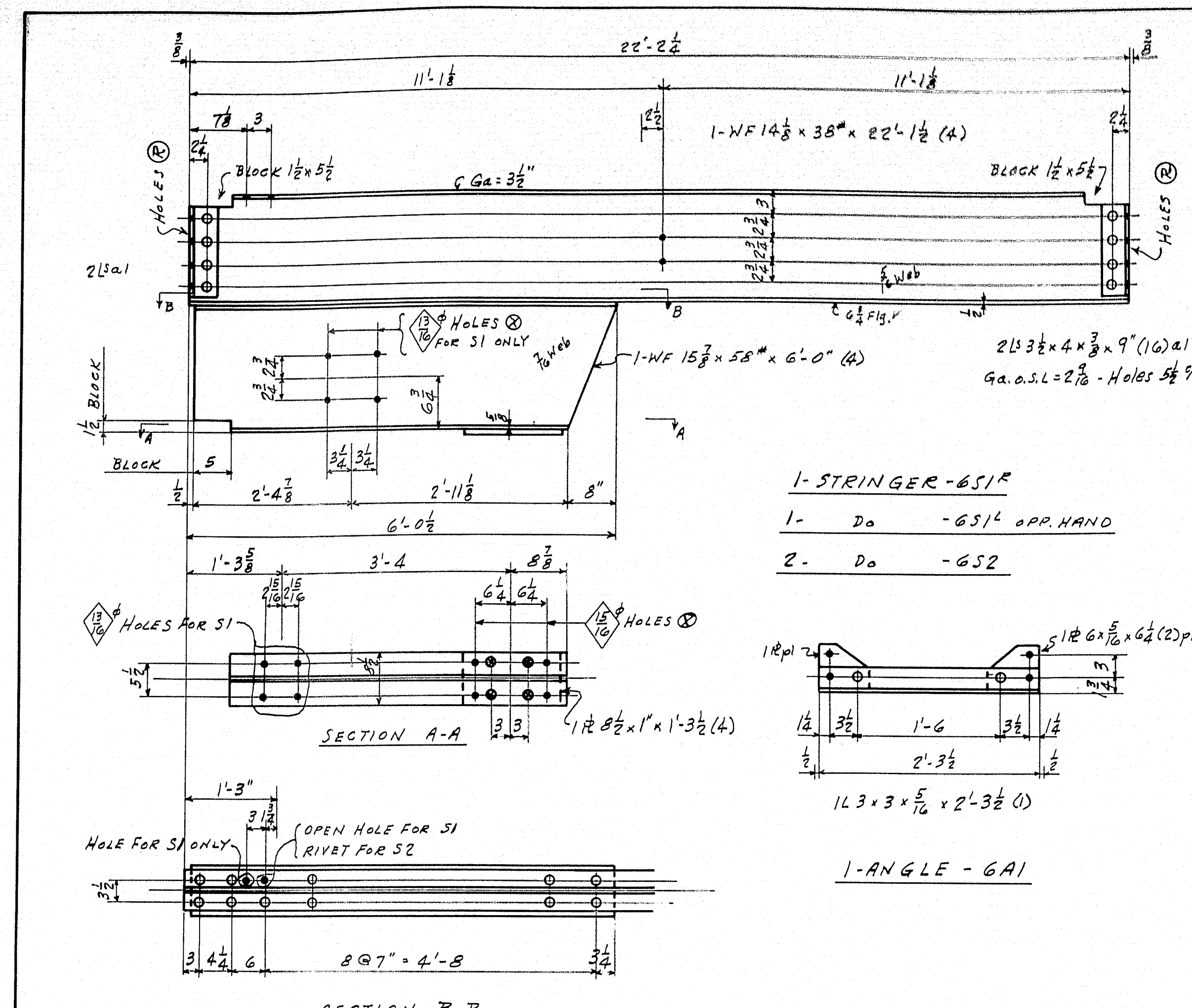
NOTES -

HOLES MARKED @ ARE TO BE SUB-PUNCHED 1/8" AND REAMED TO 3/8" TO A METAL TEMPLATE. CONTACT SURFACES EITHER SHOP OR FIELD SHALL NOT BE PAINTED.

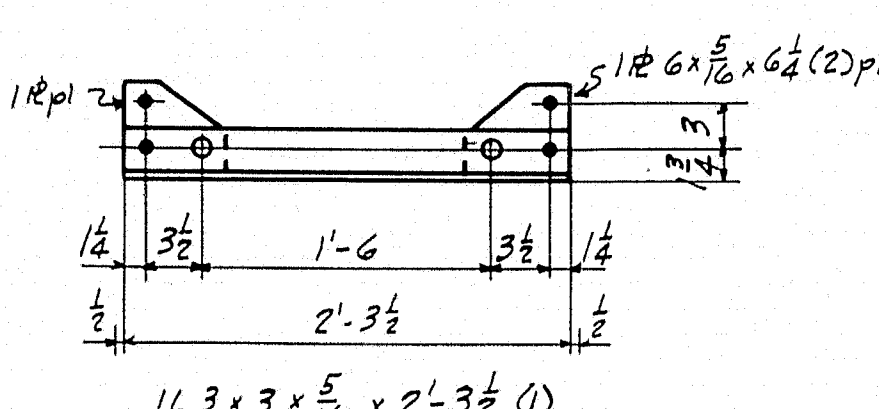
STATE OF MAINE
SOUTHPORT BRIDGE
OVER
TOWNSEND CUT
BETWEEN THE TOWNS OF
SOUTHPORT AND BOOTHBAY HARBOR
LINCOLN COUNTY
P.W.A. PROJECT No. MAINE 1120-F

INSPECTION		SHOP RIVETS		WEIGHT	
P.T.L.		OPEN HOLES		UNLESS NOTED	
RIVETS 3/8"		OPEN HOLES 1/8"			
LACKAWANNA STEEL CONSTRUCTION CORP BUFFALO, N. Y.					
STRUCTURE SOUTHPORT BRIDGE					
FOR STATE OF MAINE					
DETAILS OF FLOOR BEAMS & STRINGERS					
SPECIFICATIONS MAINE STEEL HIGHWAY BRIDGES 1971					
SHOP PAINT 1/2" RED LEAD PER SPEC'S (SEE NOTE)					
FIELD PAINT TOWNSHIP OF SOUTHPORT (TOWNSHIP OF MAINE)					
DRAWN BY	DATE	CHECKED BY	DATE	SQUAD FOREMAN	
E.S.	1-17-39	W.H.	1/2-39	Buck	
REVISIONS					
NO.	DATE	BY	DESCRIPTION		
1					
2					
3					
4					
5					
CONTRACT No. 3337		SHEET No.		5	

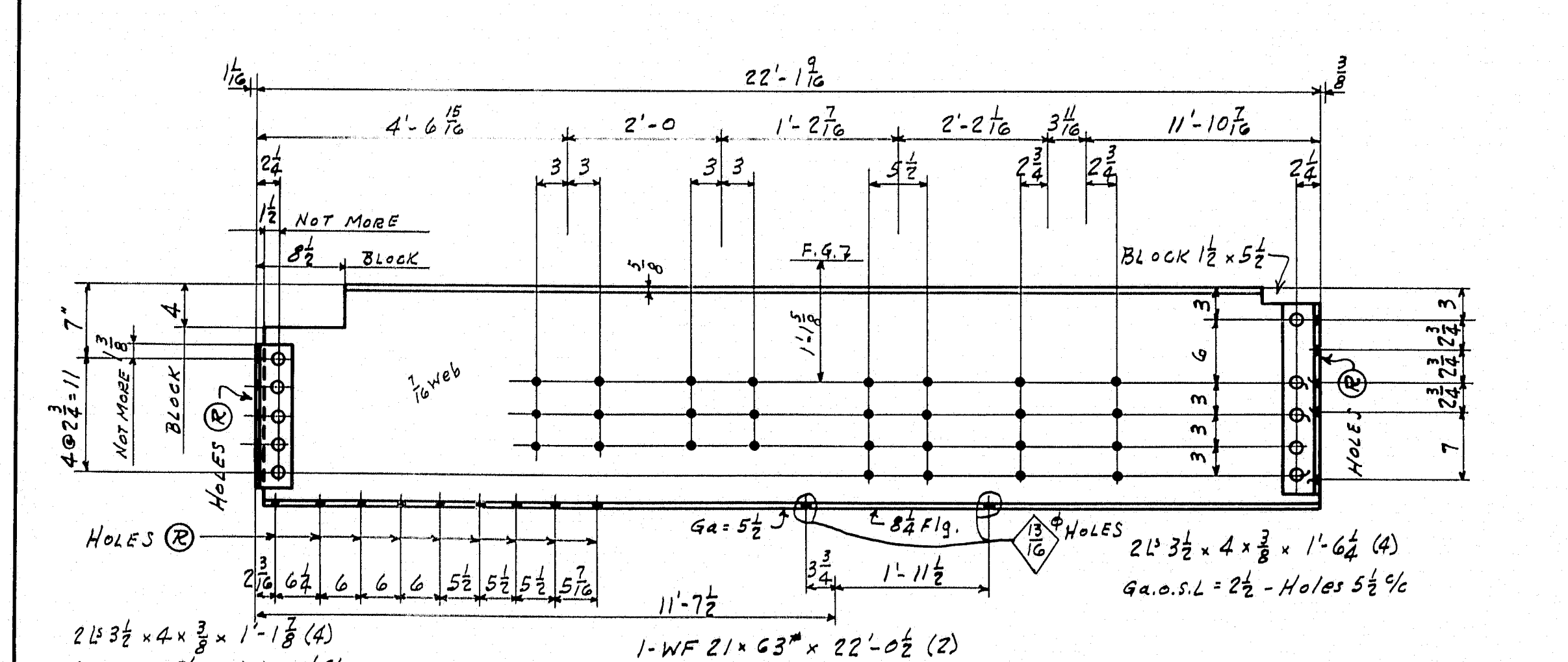




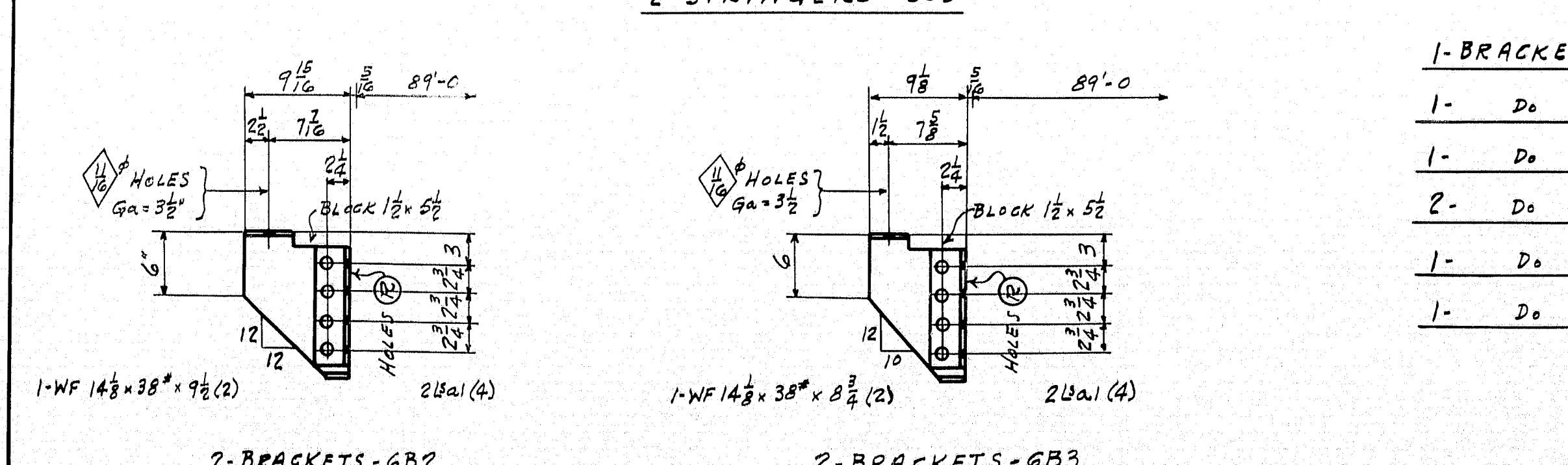
- 1- STRINGER - 6S1R**
 1- Do - 6S1L OPP. HAND
 2- Do - 6S2



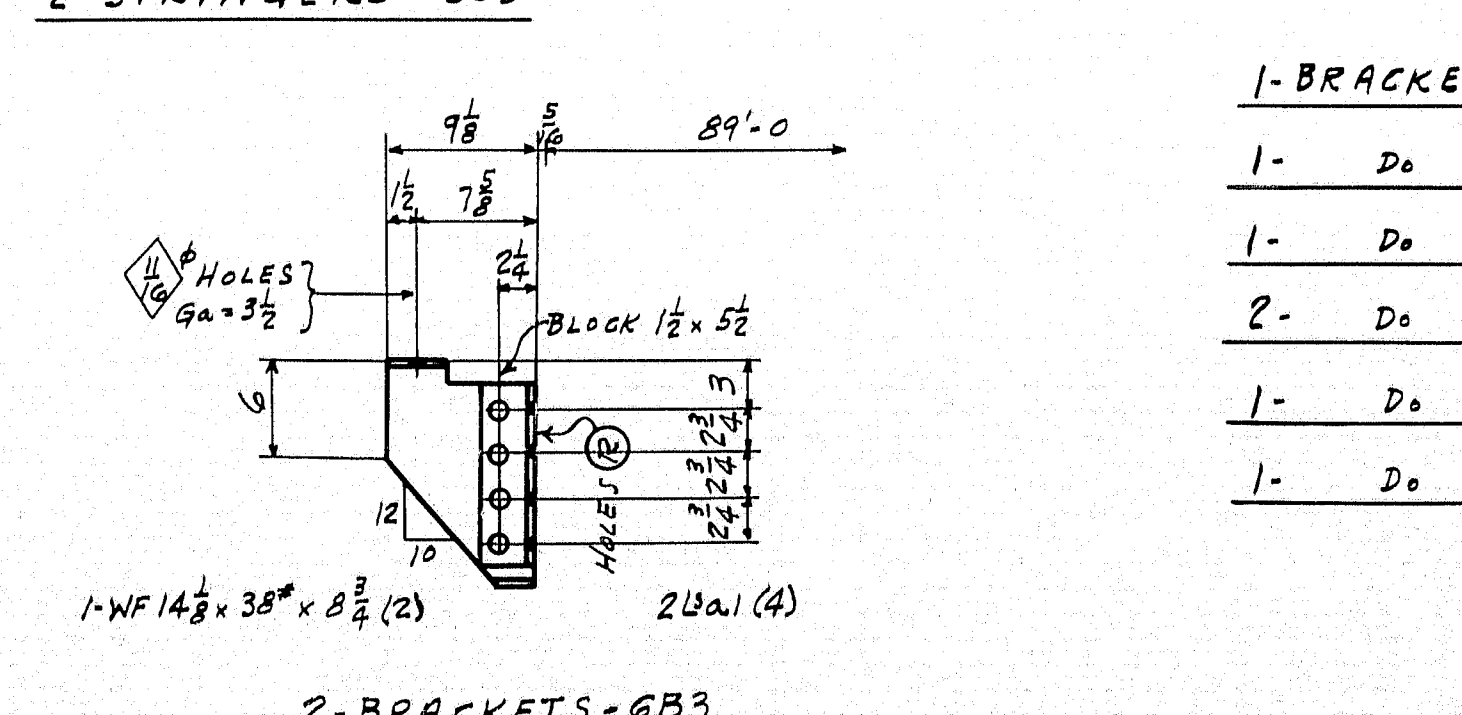
1- ANGLE - 6A1



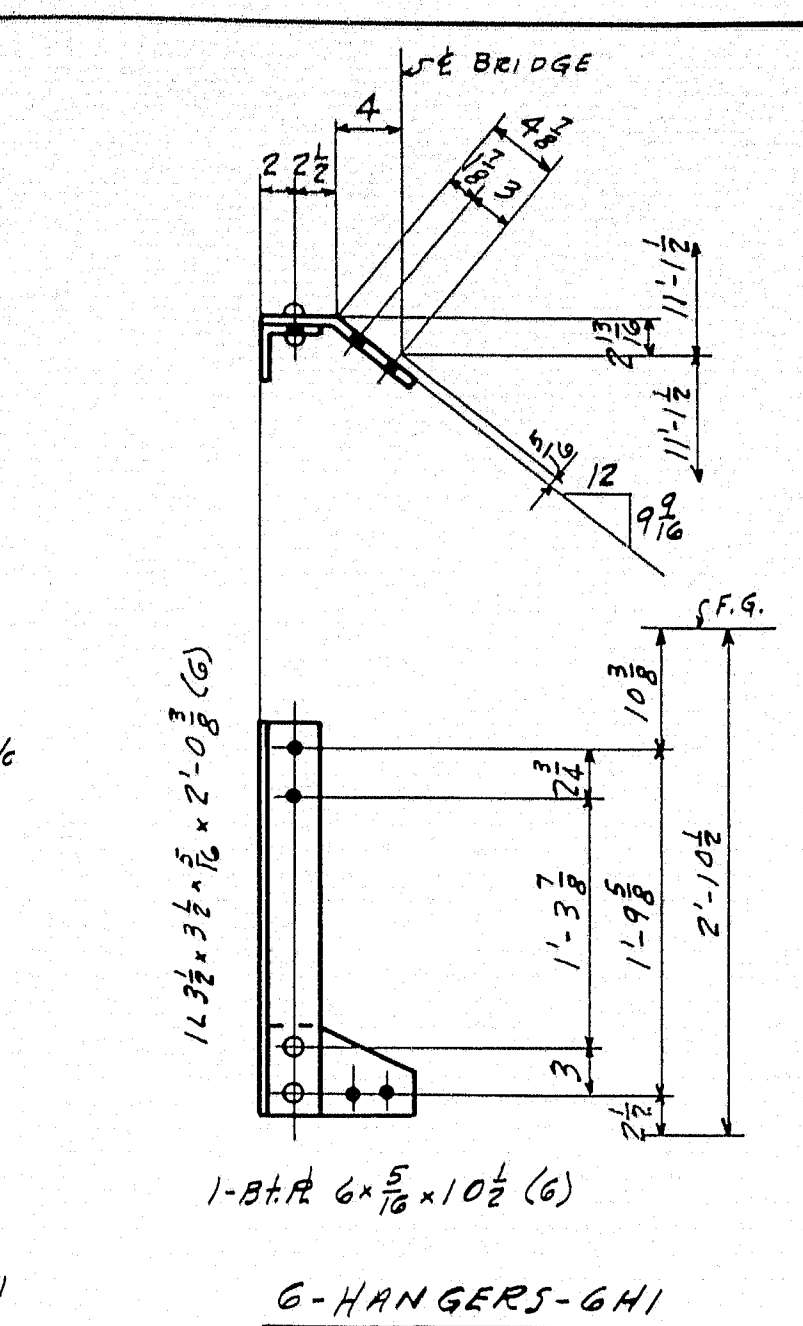
2- STRINGERS - 6S3



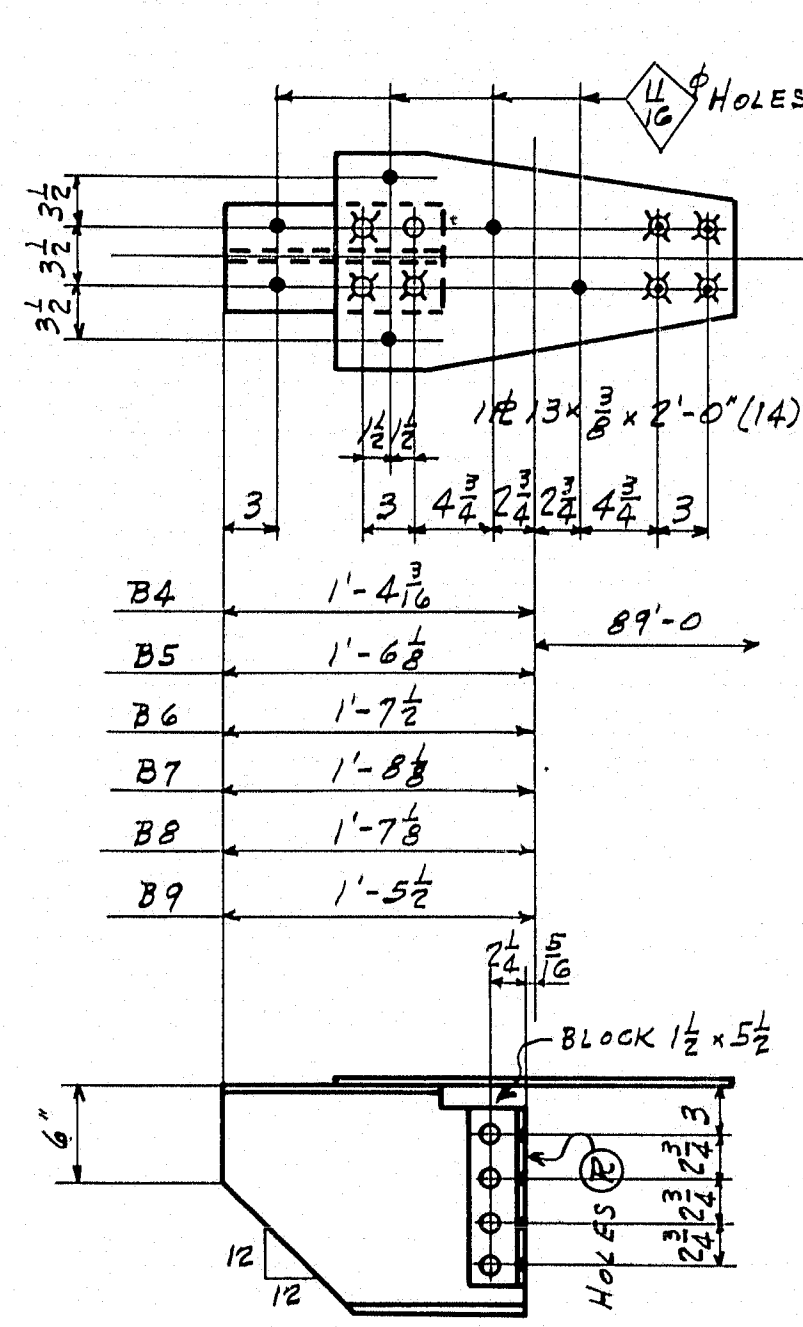
2- BRACKETS - 6B2



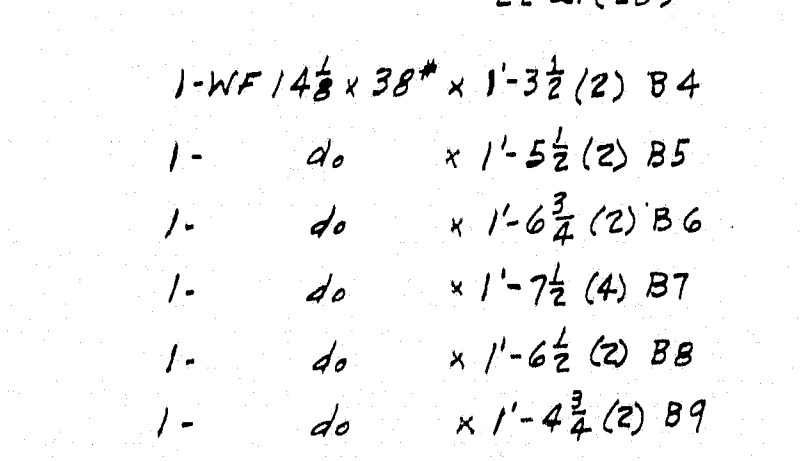
2- BRACKETS - 6B3



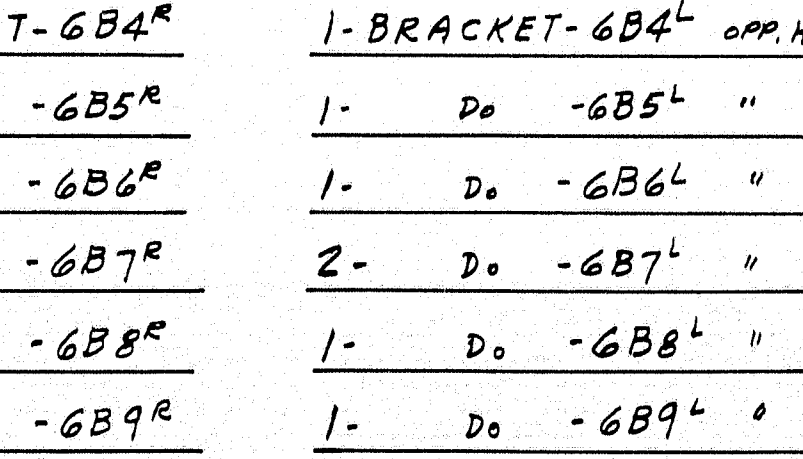
1- BRACKET - 6B4



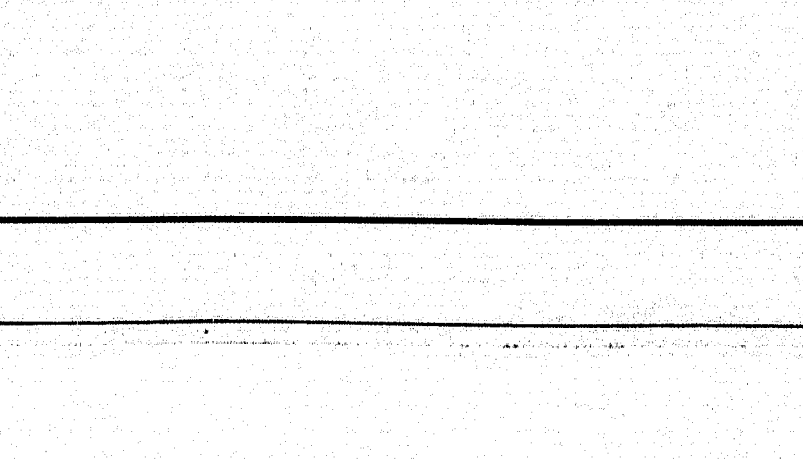
1- BRACKET - 6B4L



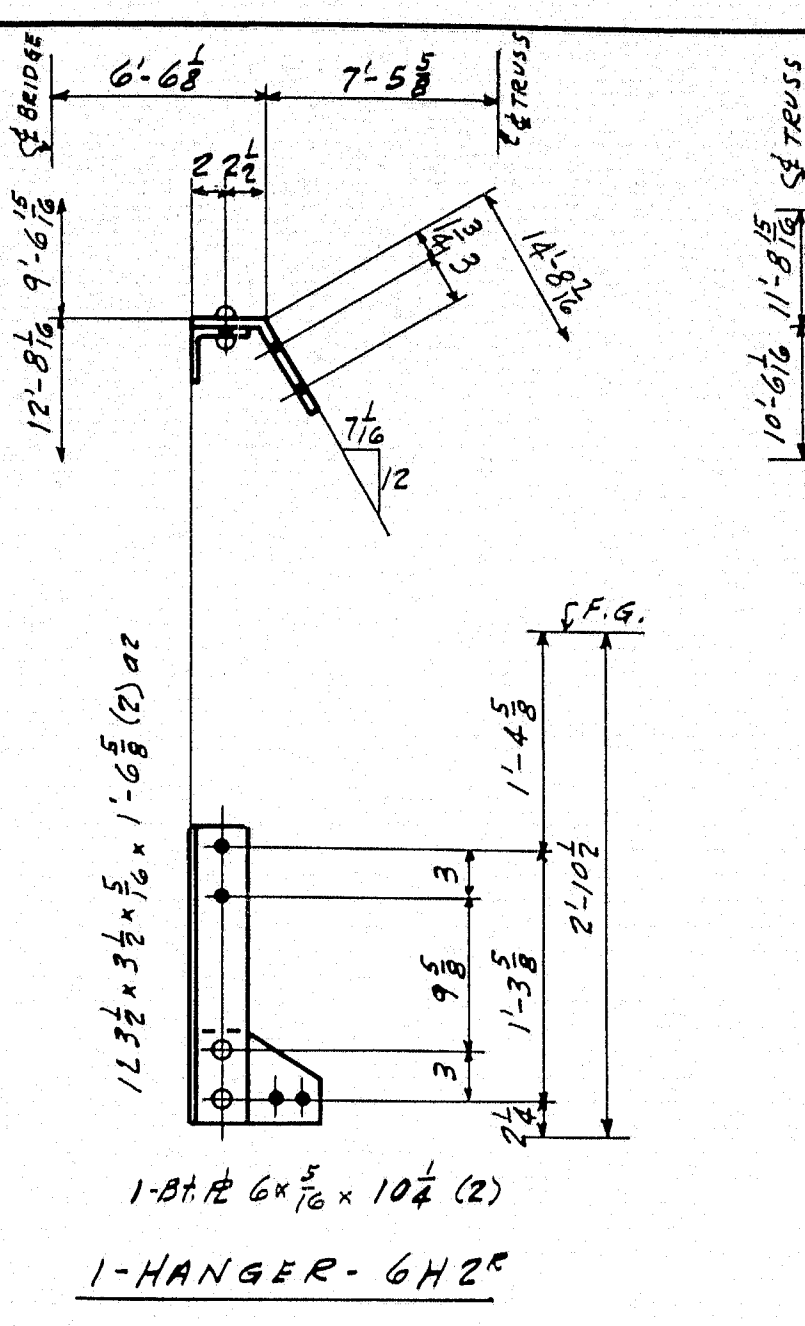
1- BRACKET - 6B5



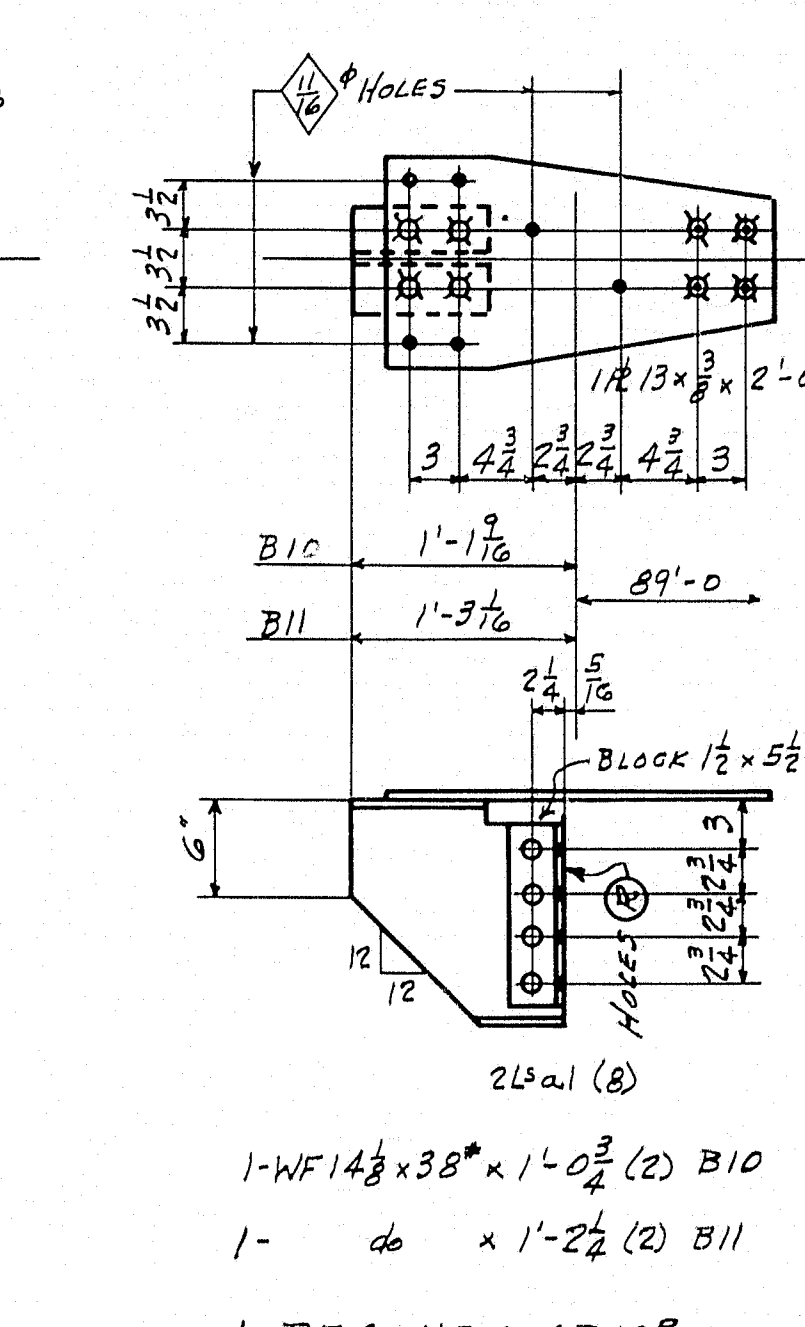
1- BRACKET - 6B6



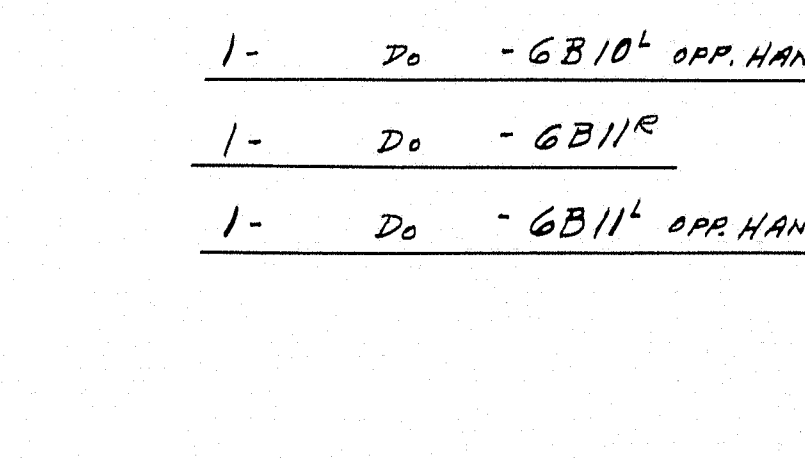
1- BRACKET - 6B7



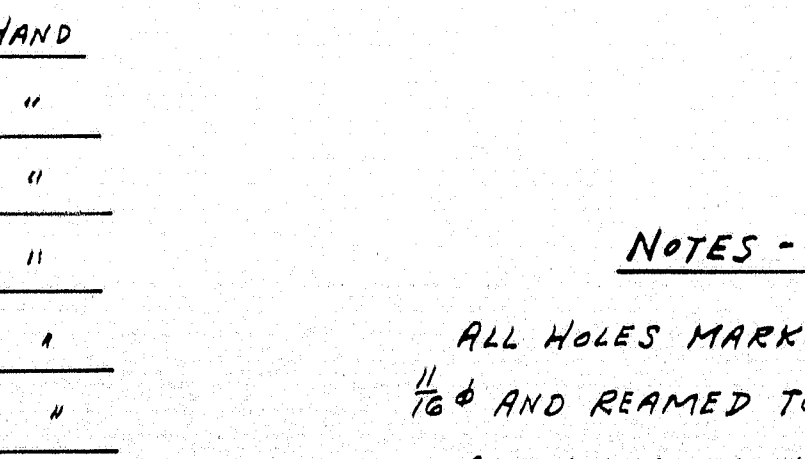
1- HANGER - 6H2



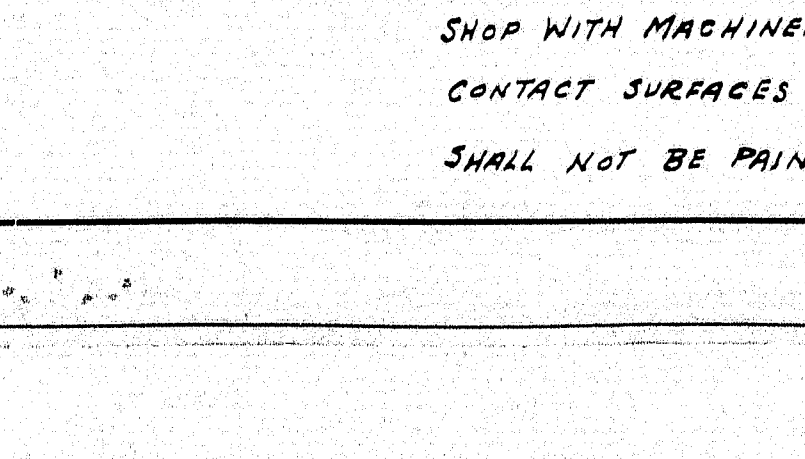
1- HANGER - 6H2L



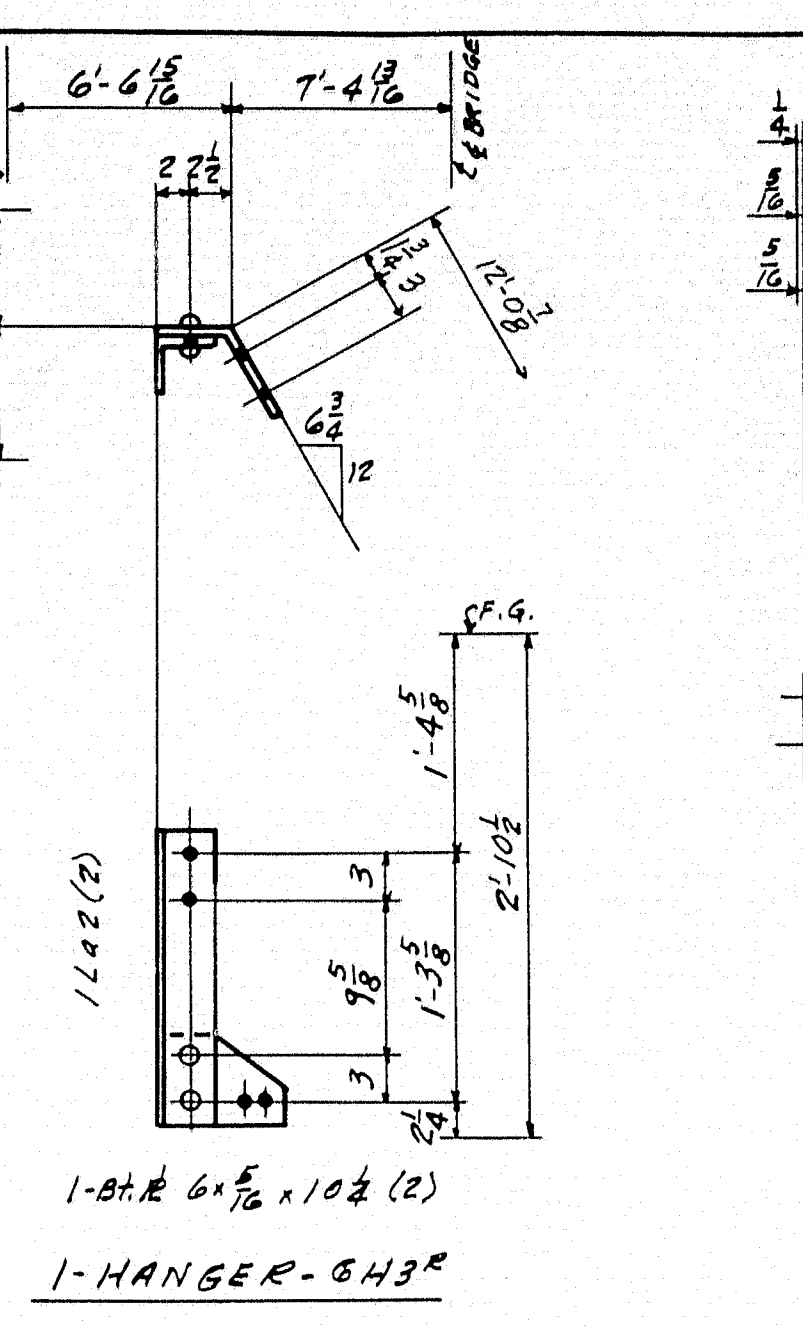
1- HANGER - 6H3



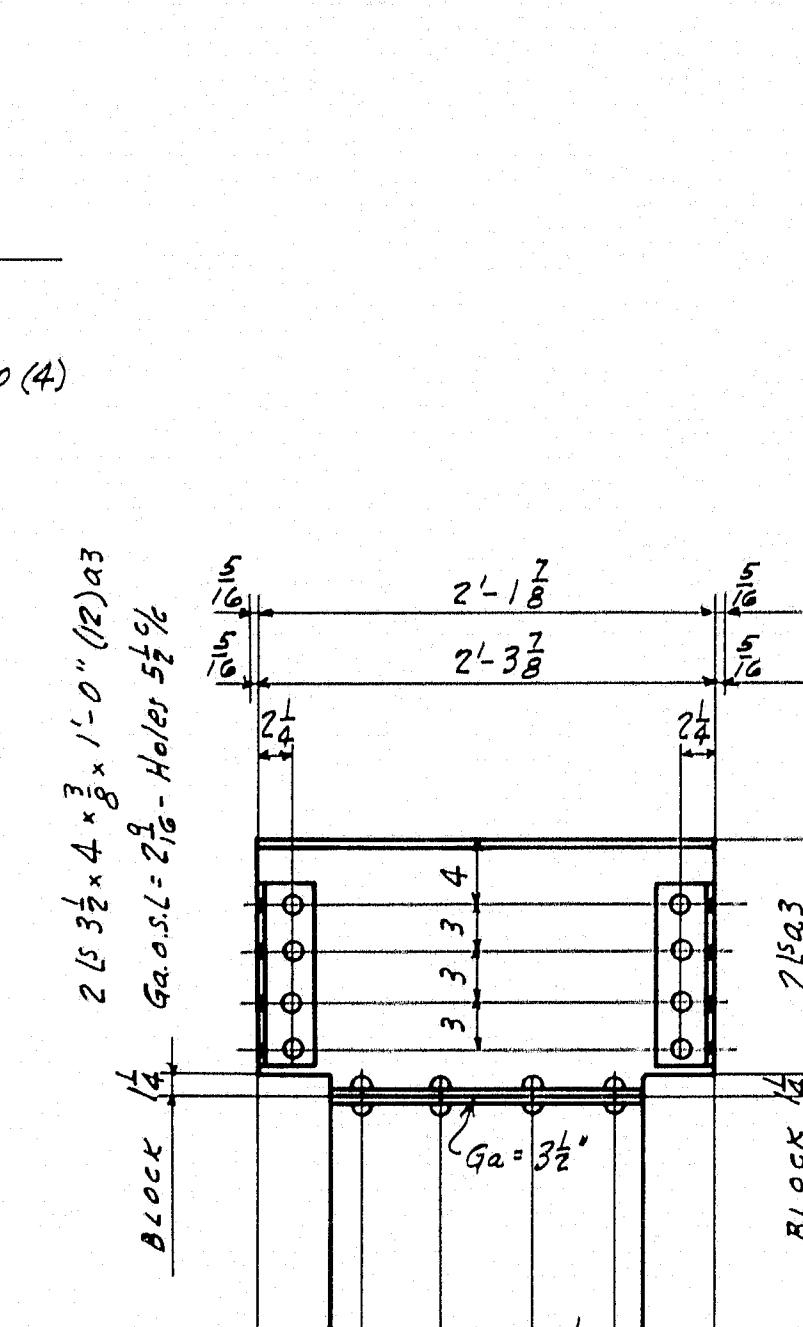
1- HANGER - 6H3L



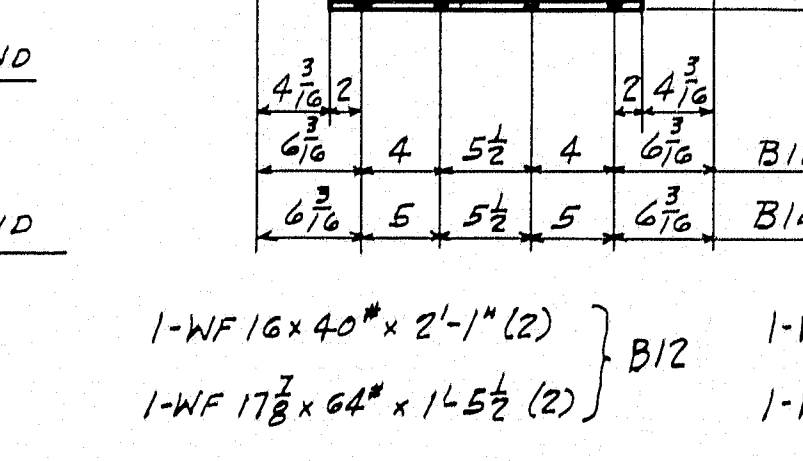
1- BRACKET - 6B10



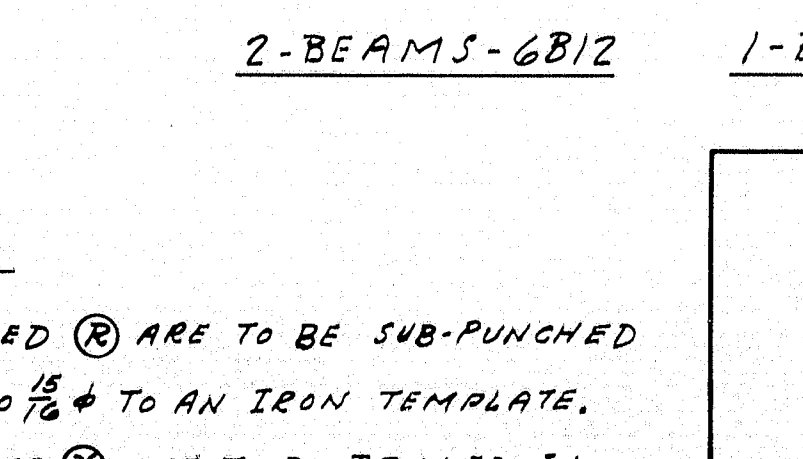
1- BRACKET - 6B10L



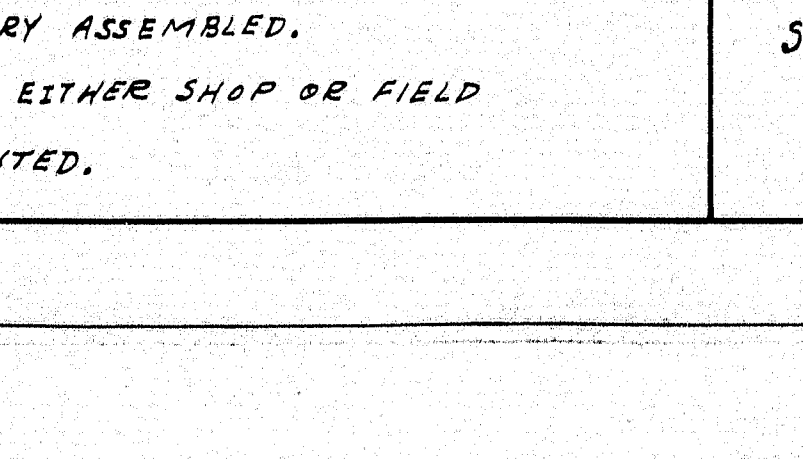
1- BRACKET - 6B11



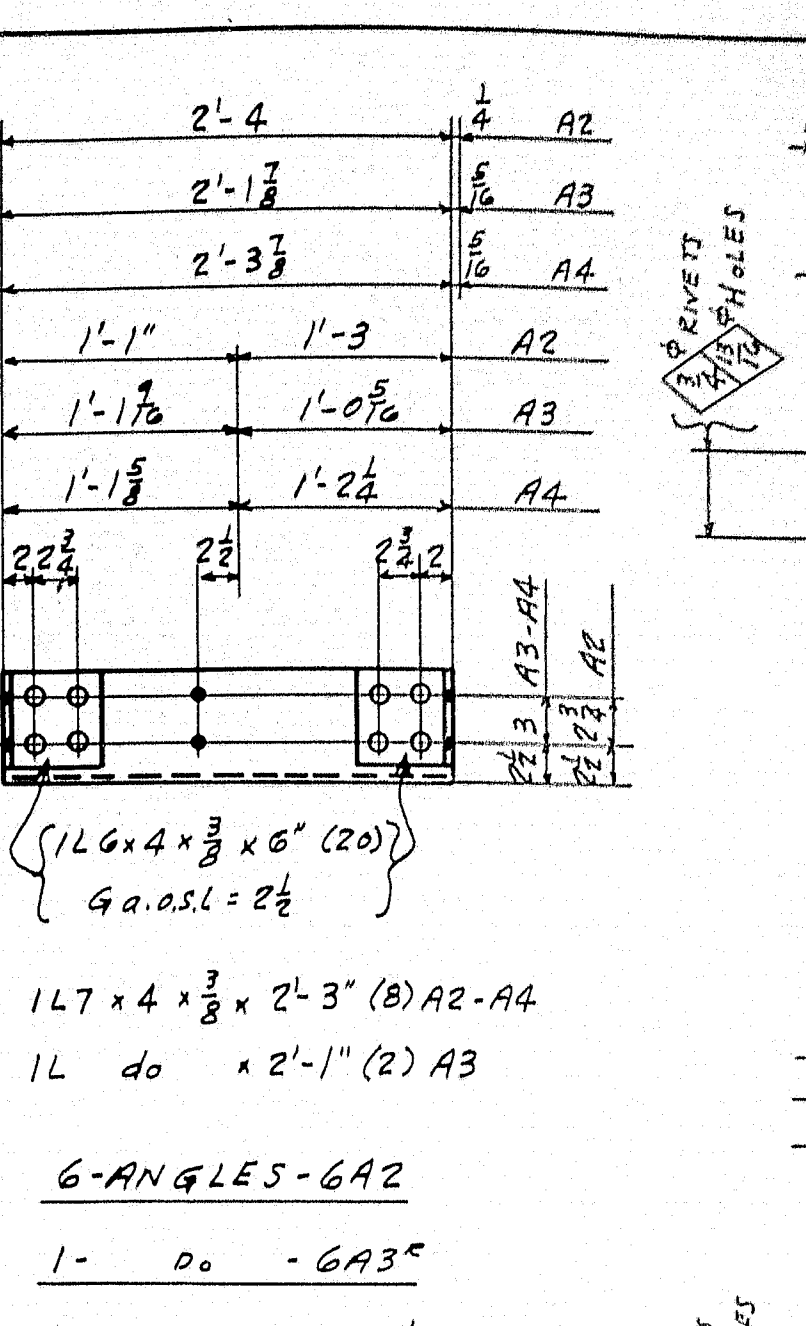
1- BRACKET - 6B11L



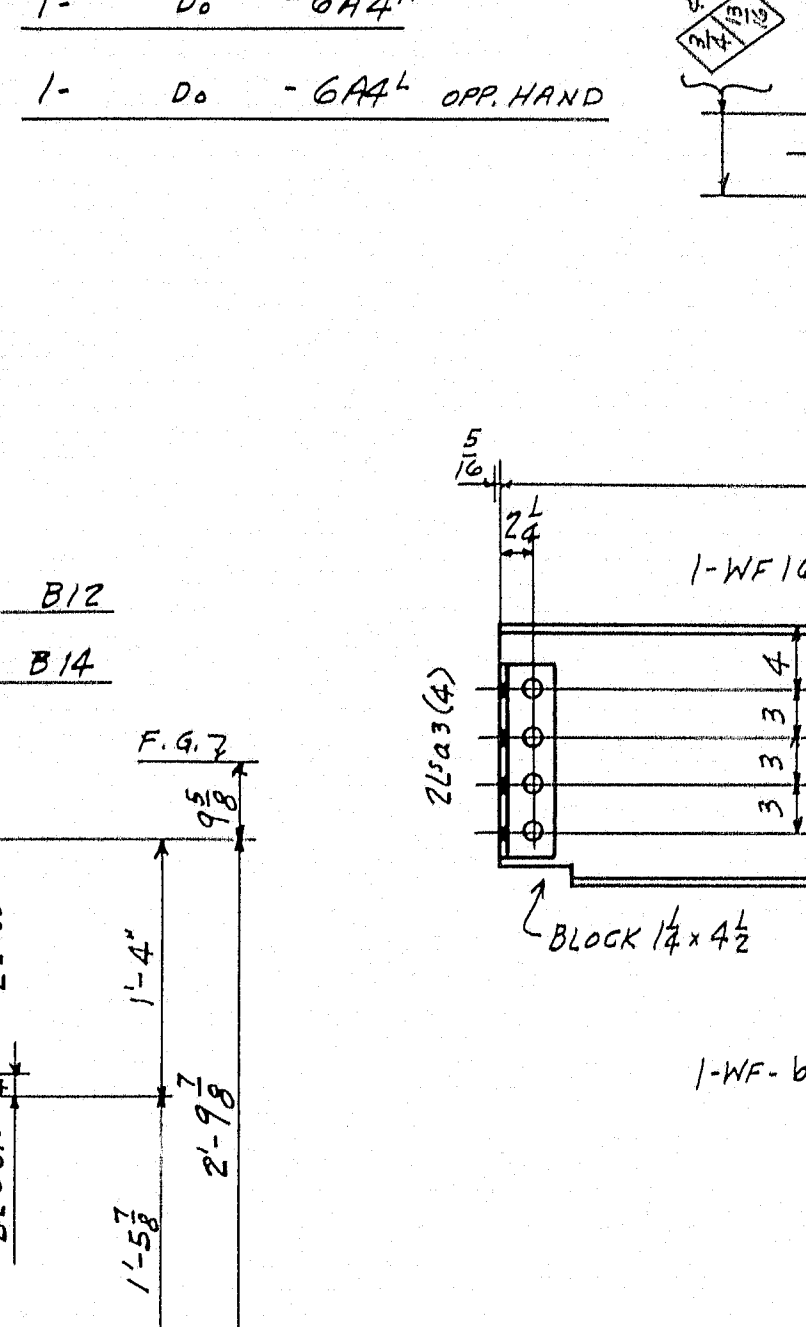
1- BRACKET - 6B12



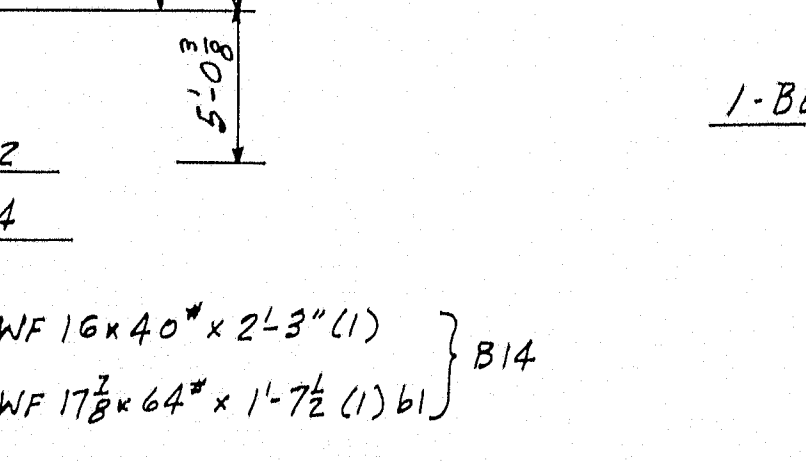
1- BRACKET - 6B12L



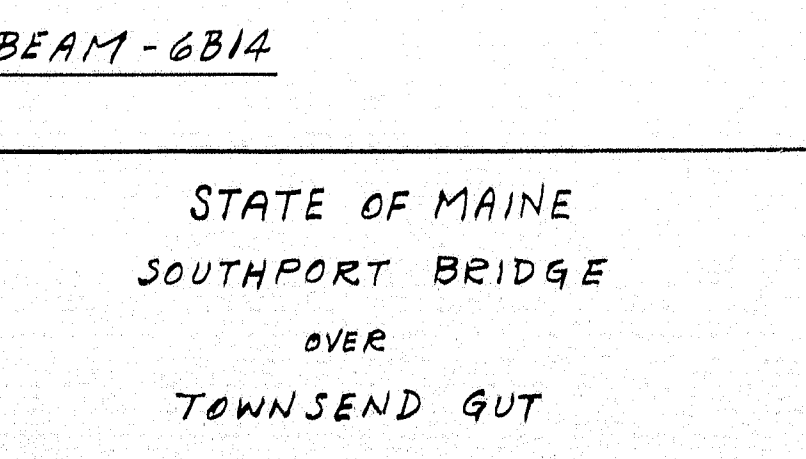
1- BRACKET - 6B13



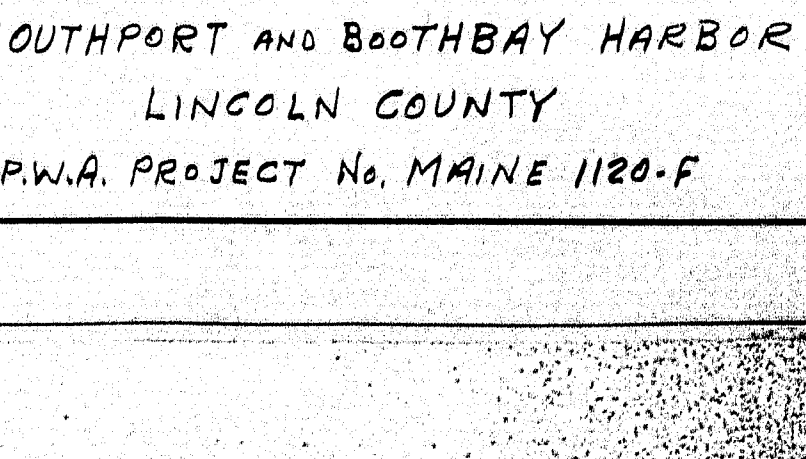
1- BRACKET - 6B13L



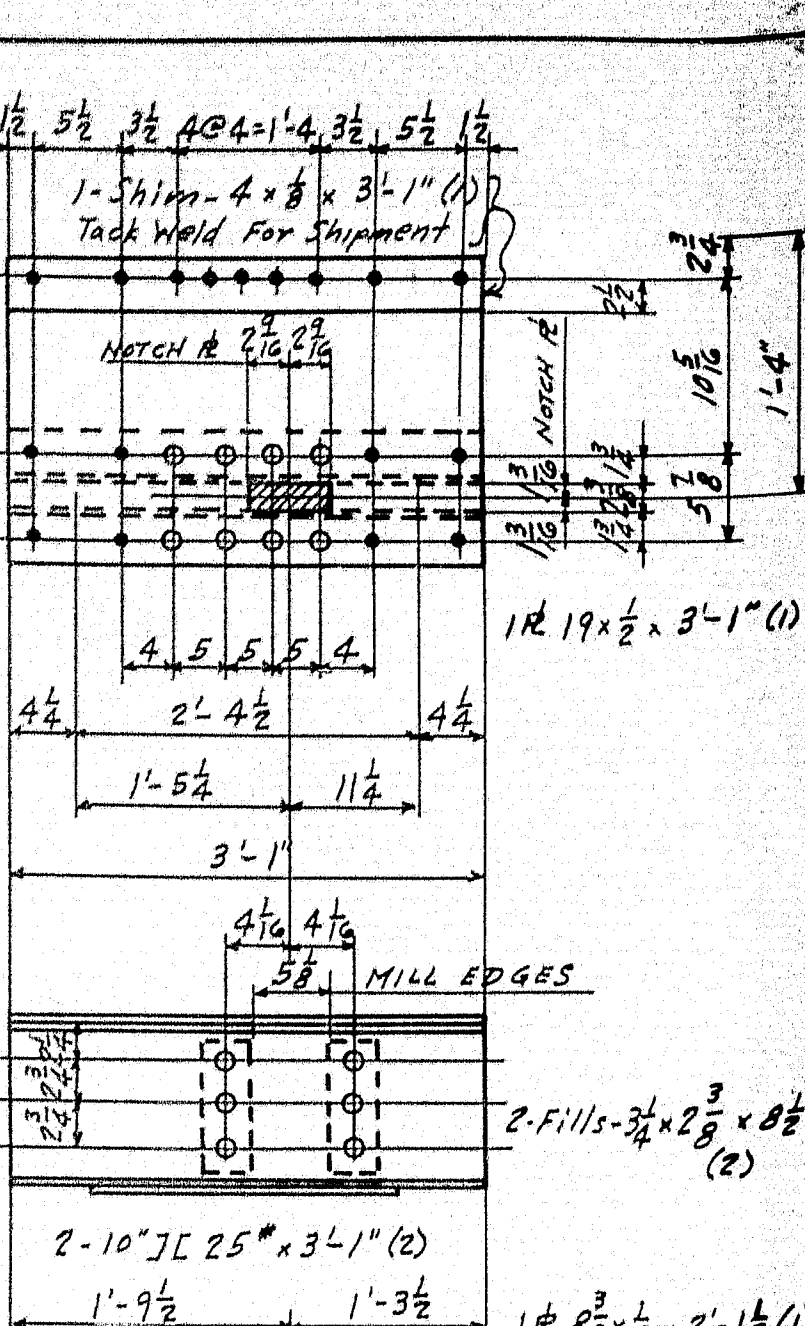
1- BRACKET - 6B14



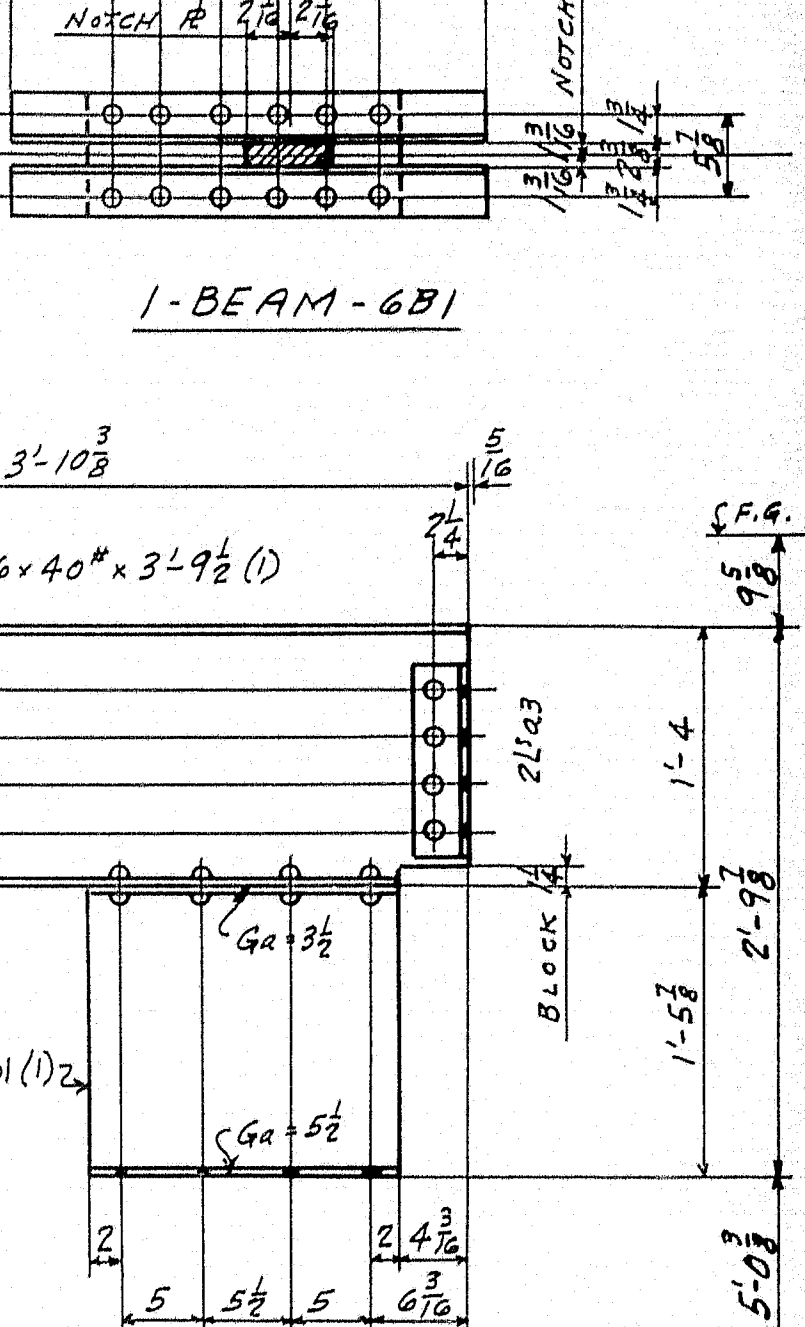
1- BRACKET - 6B14L



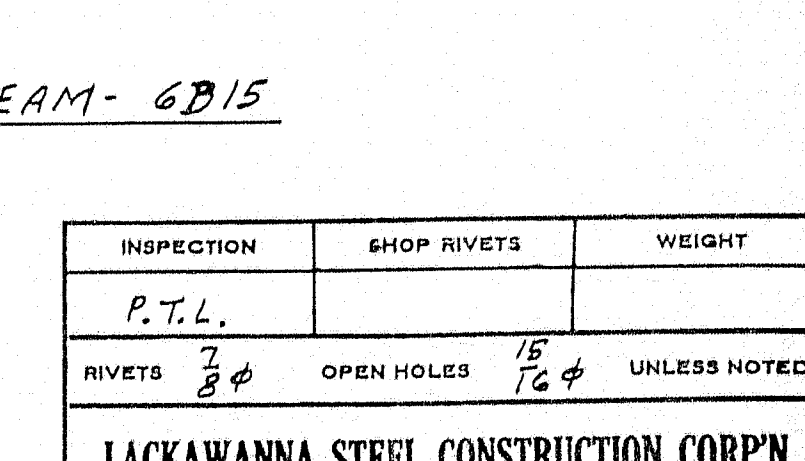
1- BRACKET - 6B15



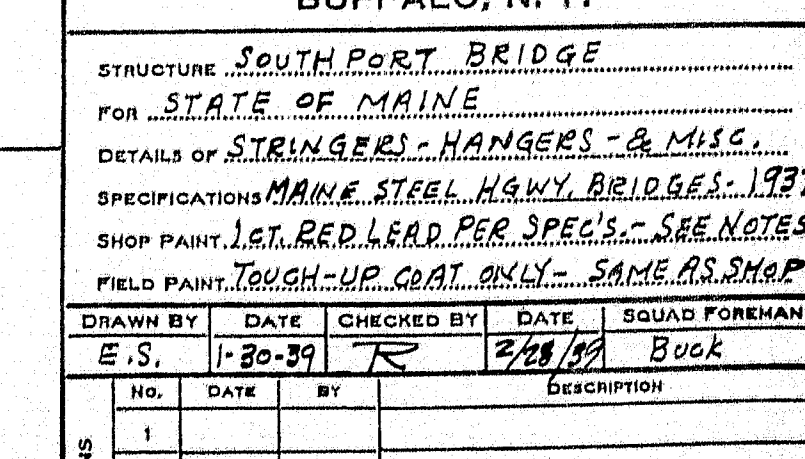
1- BRACKET - 6B15L



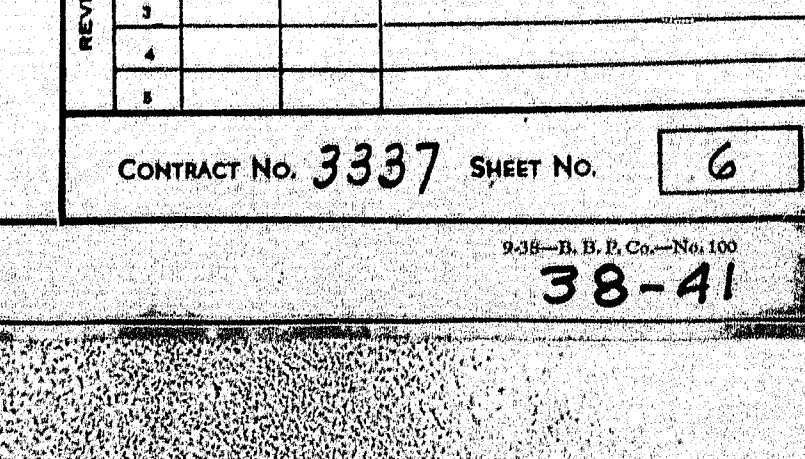
1- BRACKET - 6B16



1- BRACKET - 6B16L



1- BRACKET - 6B17

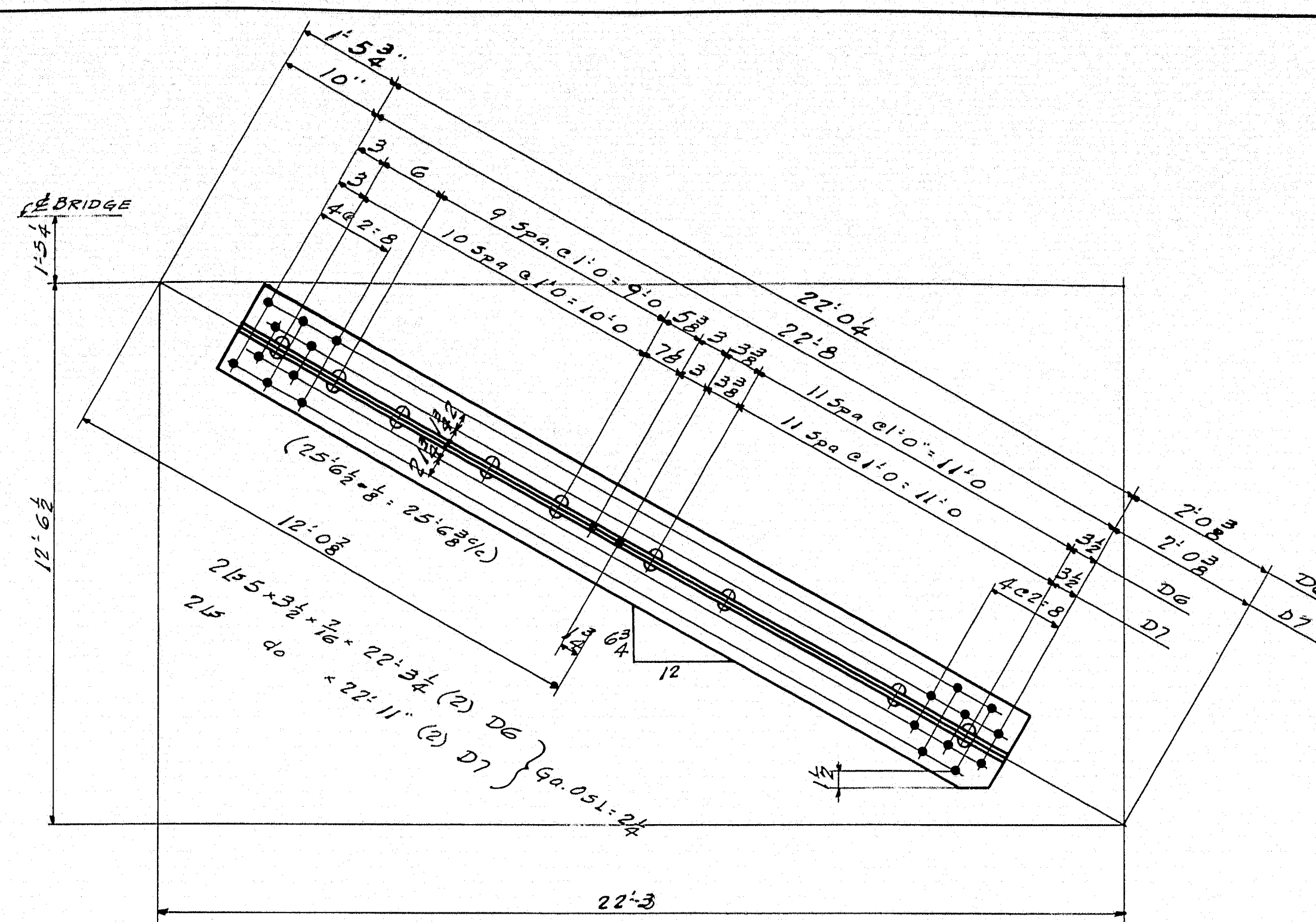


1- BRACKET - 6B17L

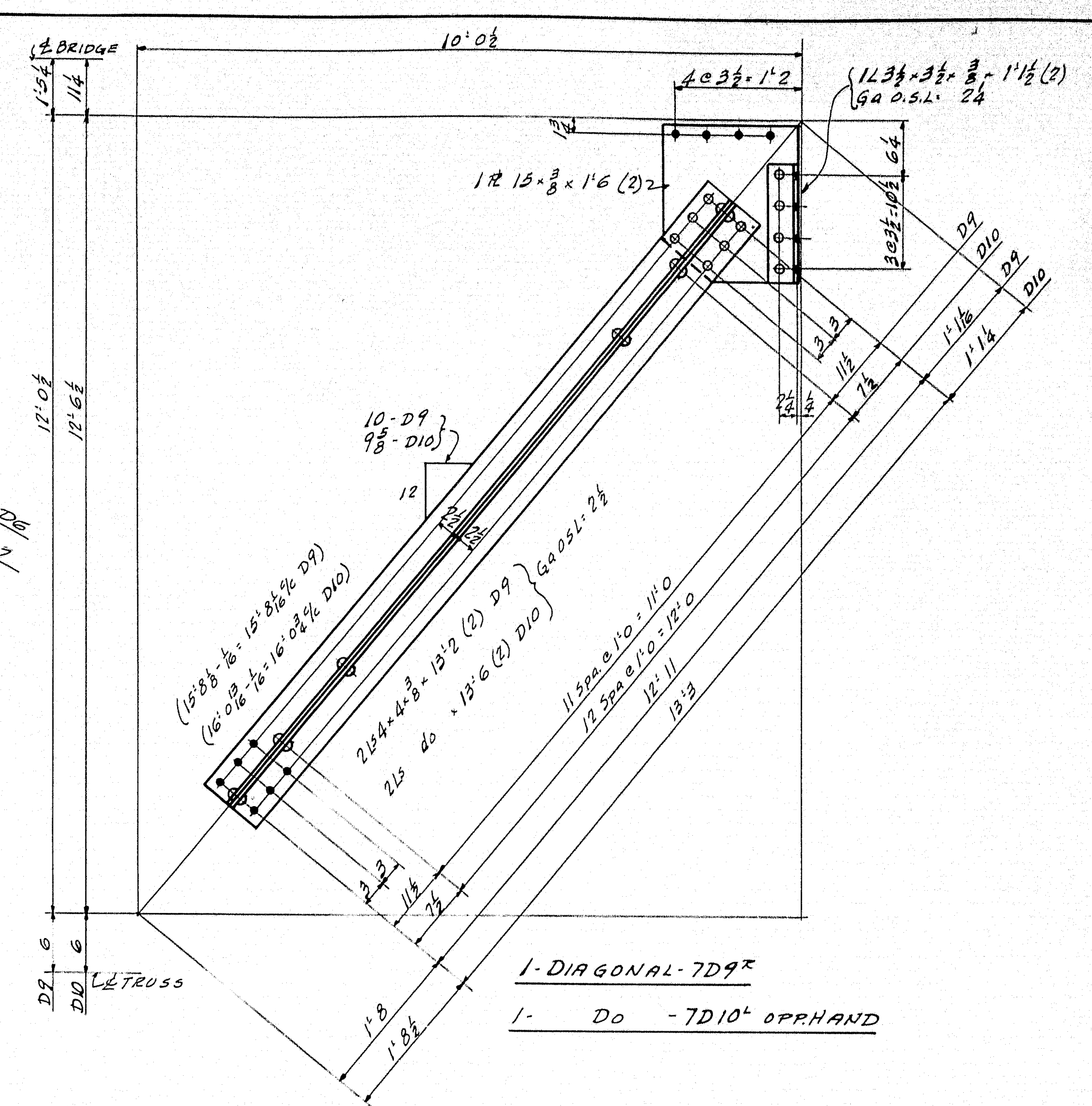
NOTES -
 ALL HOLES MARKED (R) ARE TO BE SUB-PUNCHED
 1/8" AND REAMED TO 1/16" TO AN IRON TEMPLATE.
 ALL HOLES MARKED (X) ARE TO BE DRILLED IN
 SHOP WITH MACHINERY ASSEMBLED.
 CONTACT SURFACES EITHER SHOP OR FIELD
 SHALL NOT BE PAINTED.

STATE OF MAINE
 SOUTHPORT BRIDGE
 OVER
 TOWNSEND CUT
 BETWEEN THE TOWNS OF
 SOUTHPORT AND BOOTHBAY HARBOR
 LINCOLN COUNTY
 P.W.A. PROJECT NO. MAINE 1120-F

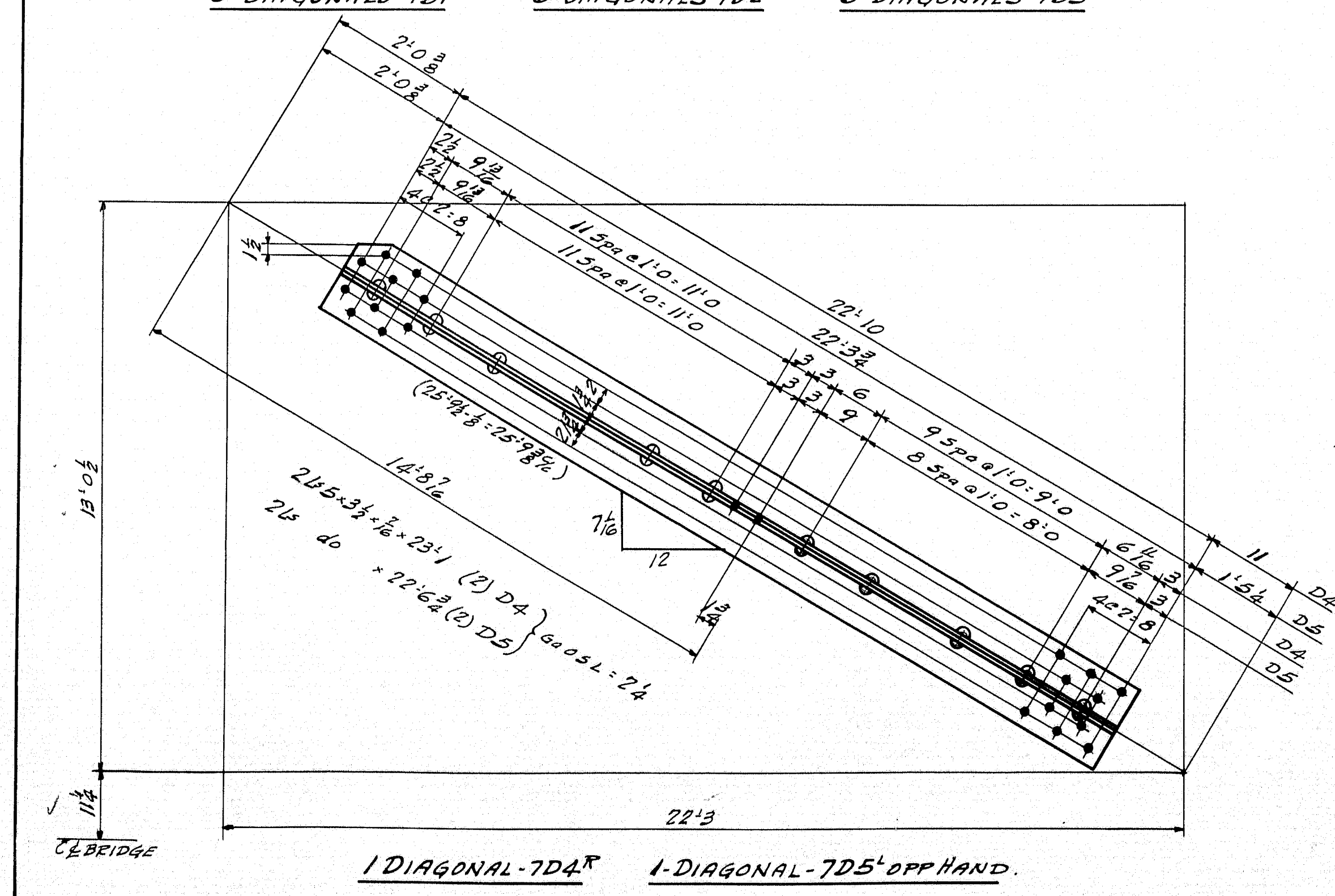
INSPECTION		SHOP RIVETS		WEIGHT	
P.T.L.		OPEN HOLES		UNLESS NOTED	
RIVETS 3/8"		15/16"			
LACKAWANNA STEEL CONSTRUCTION CORP'N BUFFALO, N. Y.					
STRUCTURE SOUTHPORT BRIDGE					
FOR STATE OF MAINE					
DETAILS OF STRAINERS, HANGERS & MISCELLANEOUS					
SPECIFICATIONS MAINE STEEL HIGHWAY BRIDGES 1937					
SHOP PAINT 100% RED LEAD PER SPEC. SEE NOTES					
FIELD PAINT 100% RED LEAD PER SPEC. SEE NOTES					
DRAWN BY DATE CHECKED BY DATE SQUAD FOREMAN					
E.S. 1-20-39 R 2/28/39 Book					
REVISIONS					
NO.	DATE	BY	DESCRIPTION		
1					
2					
3					
4					
5					
CONTRACT No. 3337 SHEET No. 6					



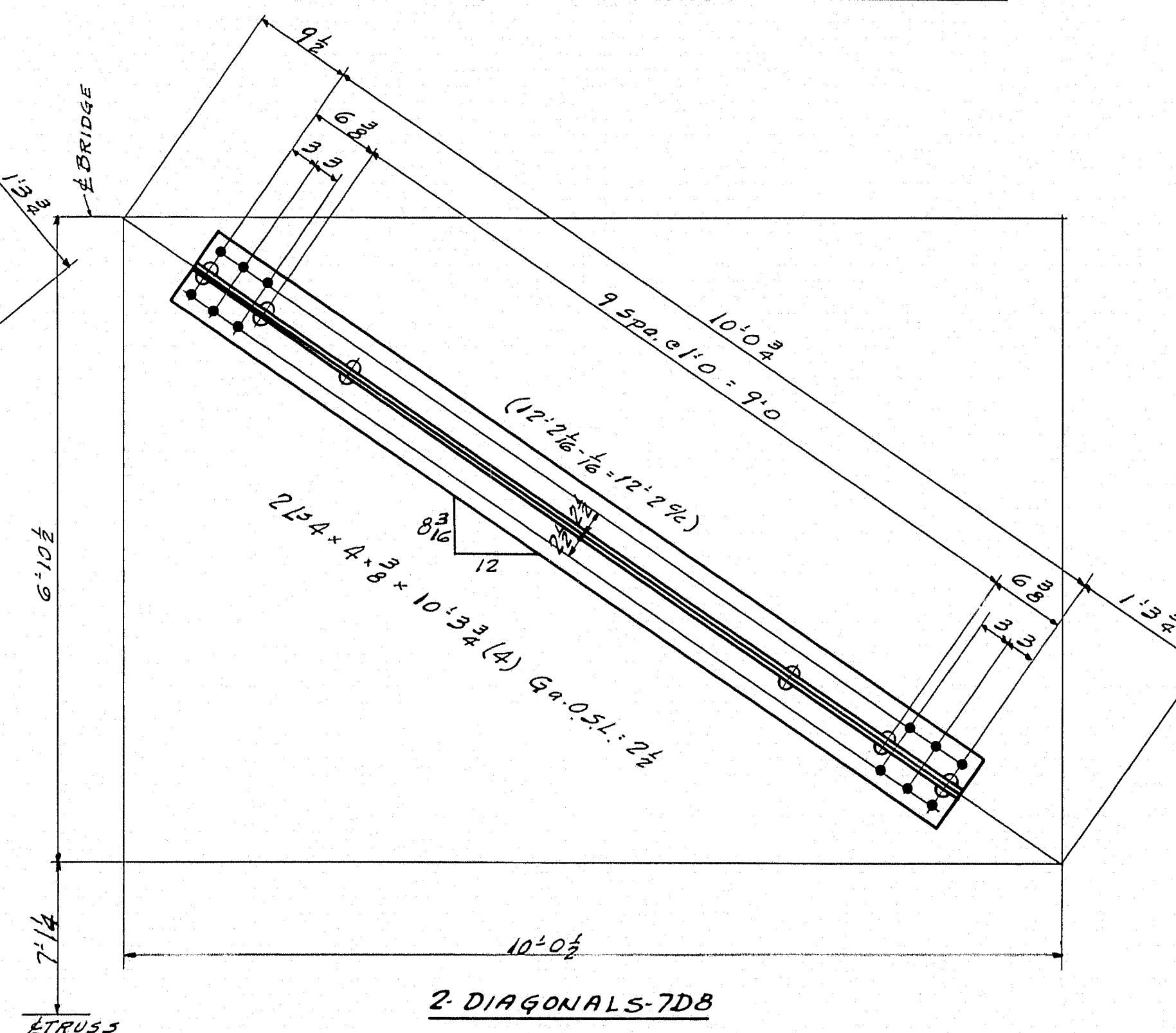
1-DIAGONAL 7D7^L OPP. HD.



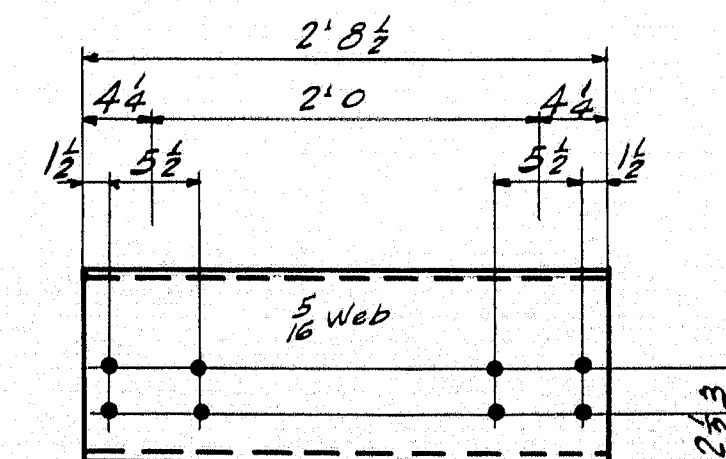
1- DO - 7D10⁴ OPP.HAND



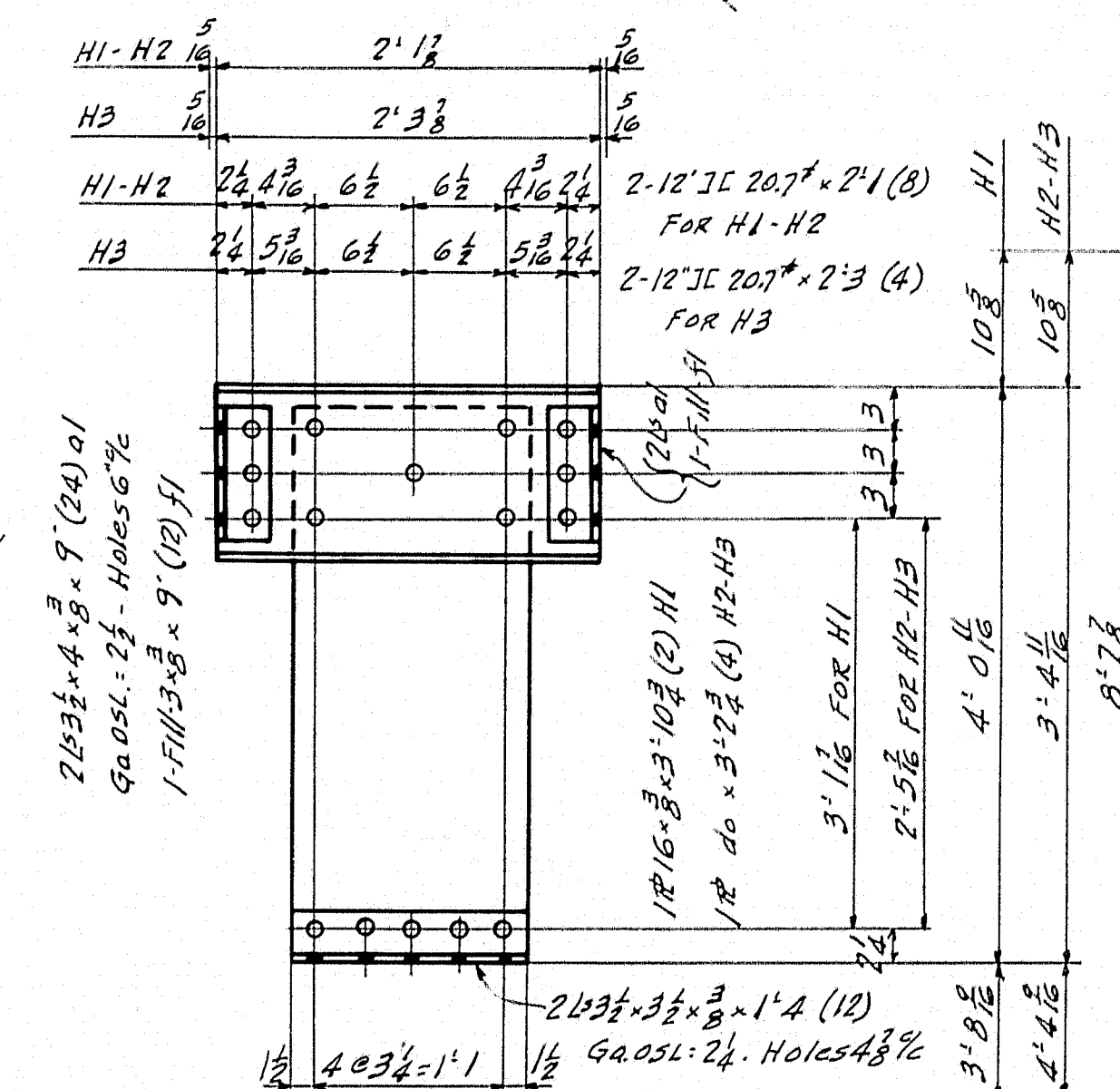
1-DIAGONAL-7D5' OPP HAND



2. DIAGONALS-7DB



1-CHANNEL-7C1



2. DO - 7H3

STATE OF MAINE
SOUTHPORT BRIDGE
OVER
TOWNSEND CUT
BETWEEN THE TOWNS OF
SOUTHPORT AND BOOTHBAY HARBOR
LINCOLN COUNTY
P.W.R. PROJECT NO MAINE 1120-F

NOTES-

NO REAMING REQUIRED.

CONTACT SURFACES EITHER SHOP
OR FIELD SHALL NOT BE PAINTED.

INSPECTION		SHOP RIVETS		WEIGHT	
P.T.L.					
RIVETS $3\frac{1}{2}$		OPEN HOLES $\frac{15}{16}$		UNLESS NOTED	

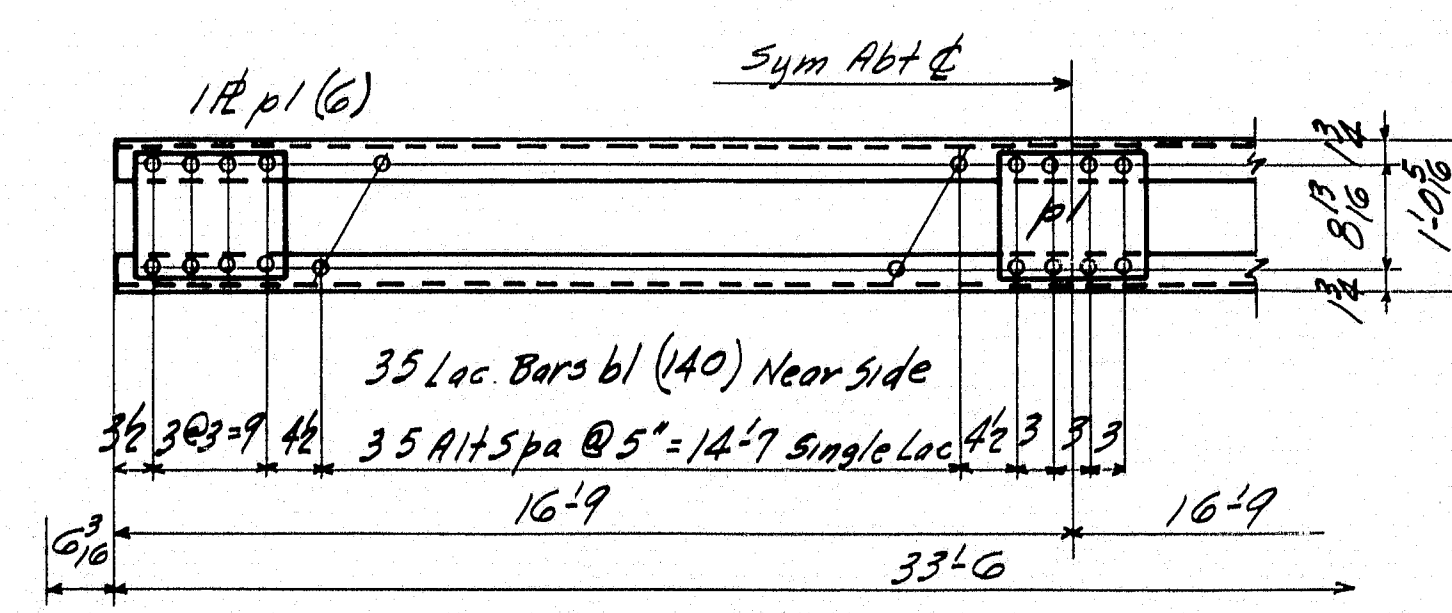
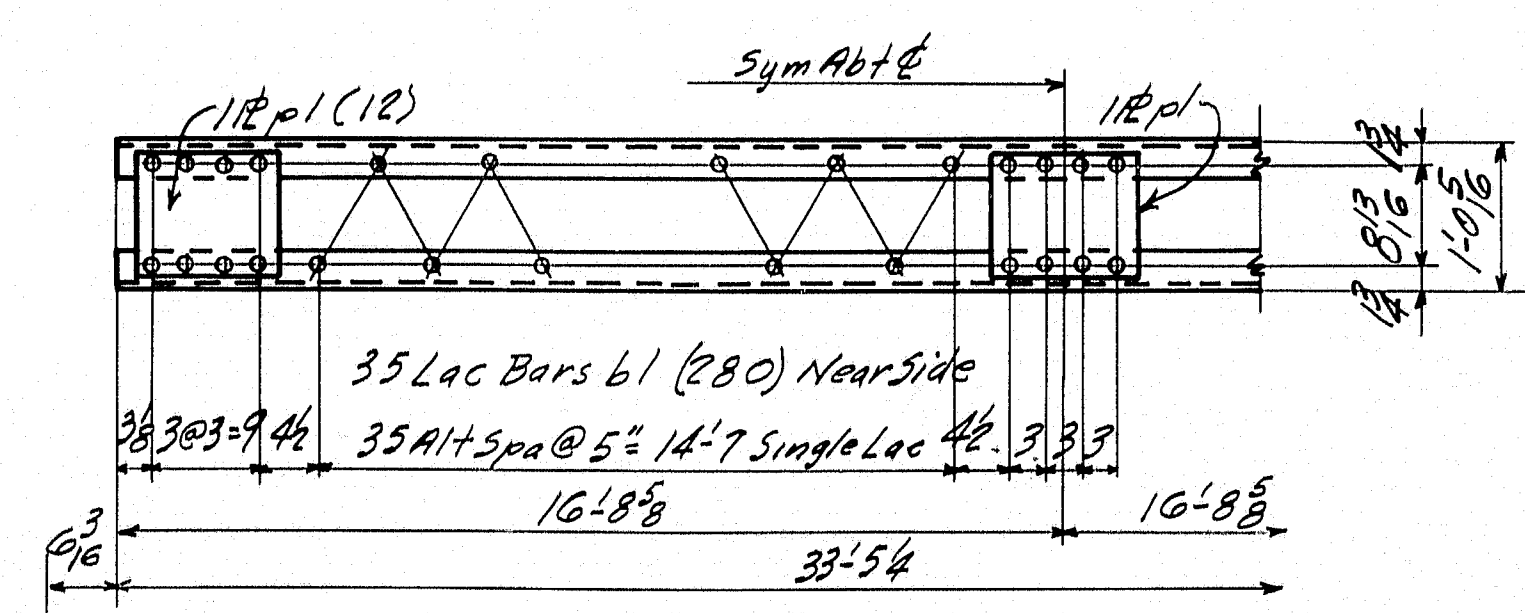
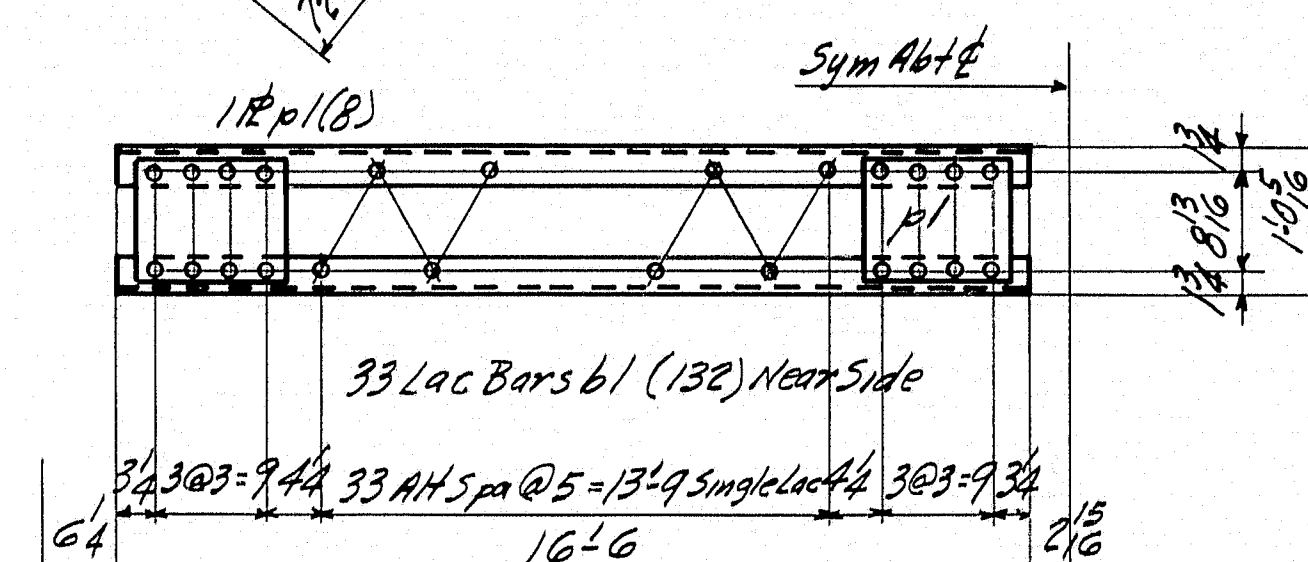
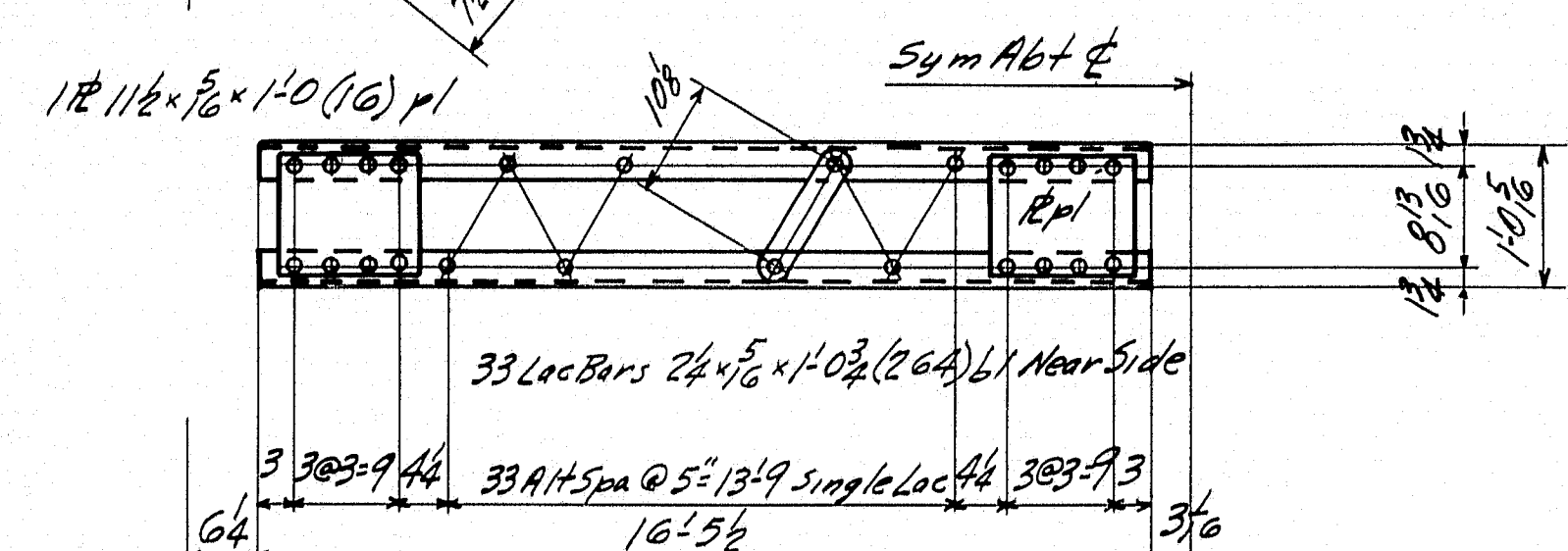
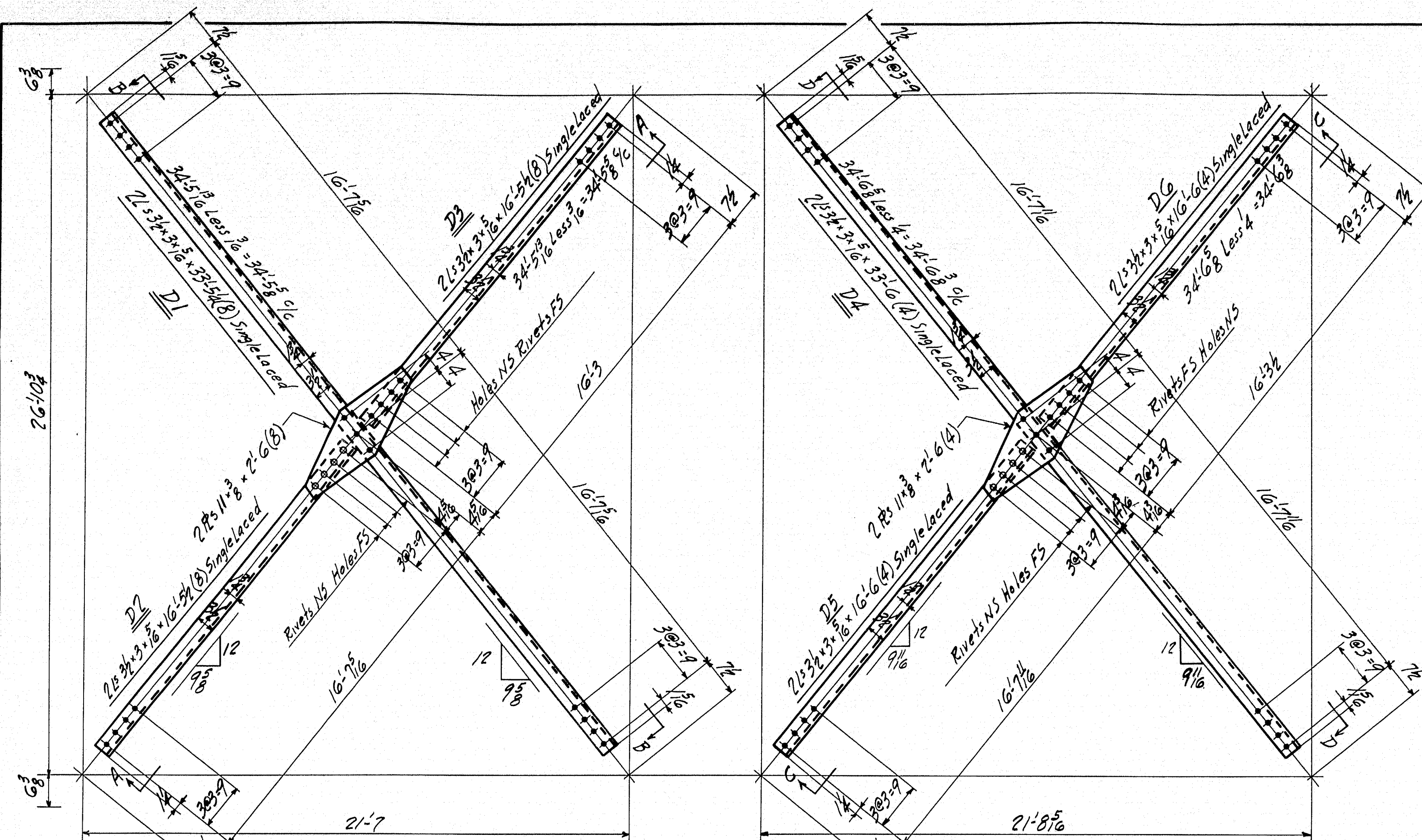
LACKAWANNA STEEL CONSTRUCTION CORPN
 BUFAAL, N. Y.

STRUCTURE SOUTHPORT BRIDGE
 FOR STATE OF MAINE
 DETAILS OF B.C. BRACING
 SPECIFICATIONS MAINE STEEL HWY BRIDGE 1927
SHOP PAINT: RED LEAD PER SPEC'S (SEE NOTES)
FIELD PAINT: TOUCH-UP COAT ONLY (SAME AS SHOP)

DRAWN BY	DATE	CHECKED BY	DATE	SQUAD FOREMAN
E.S.	2-2-37	R	2/11/37	BUCK

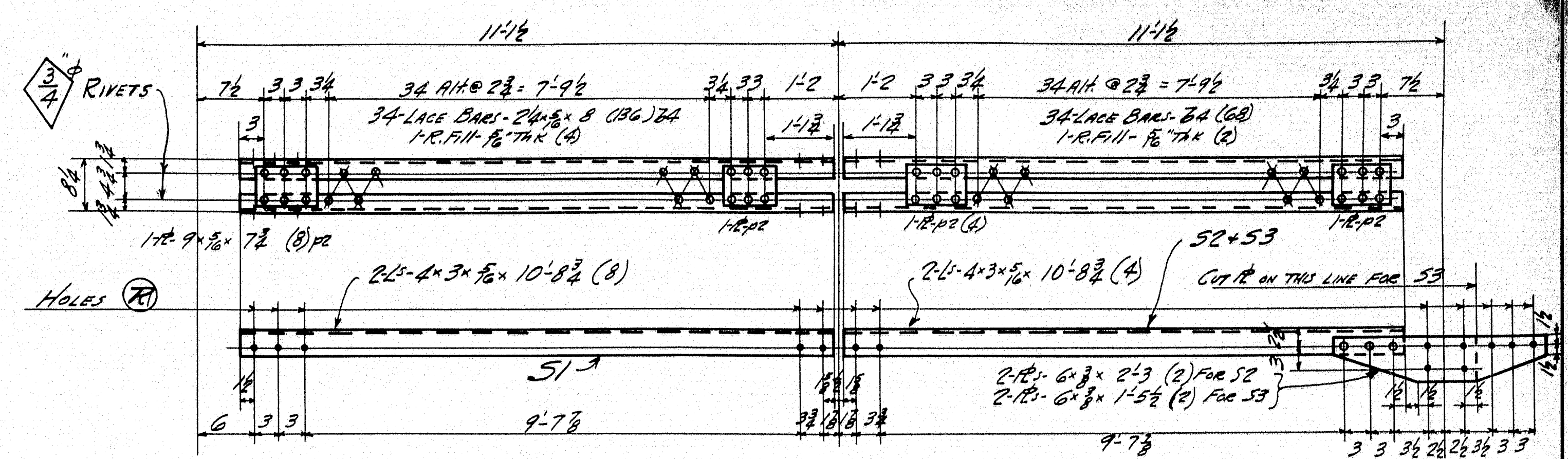
REVISIONS	NO.	DATE	BY	DESCRIPTION
	1			
	2			
	3			
	4			
	5			
	6			

CONTRACT No. 3337 SHEET No. 7



4-DIAGONALS-10D1
4- DO -10D2
4- DO -10D3

2-DIAGONALS-10D4
2- DO -10D5
2- DO -10D6



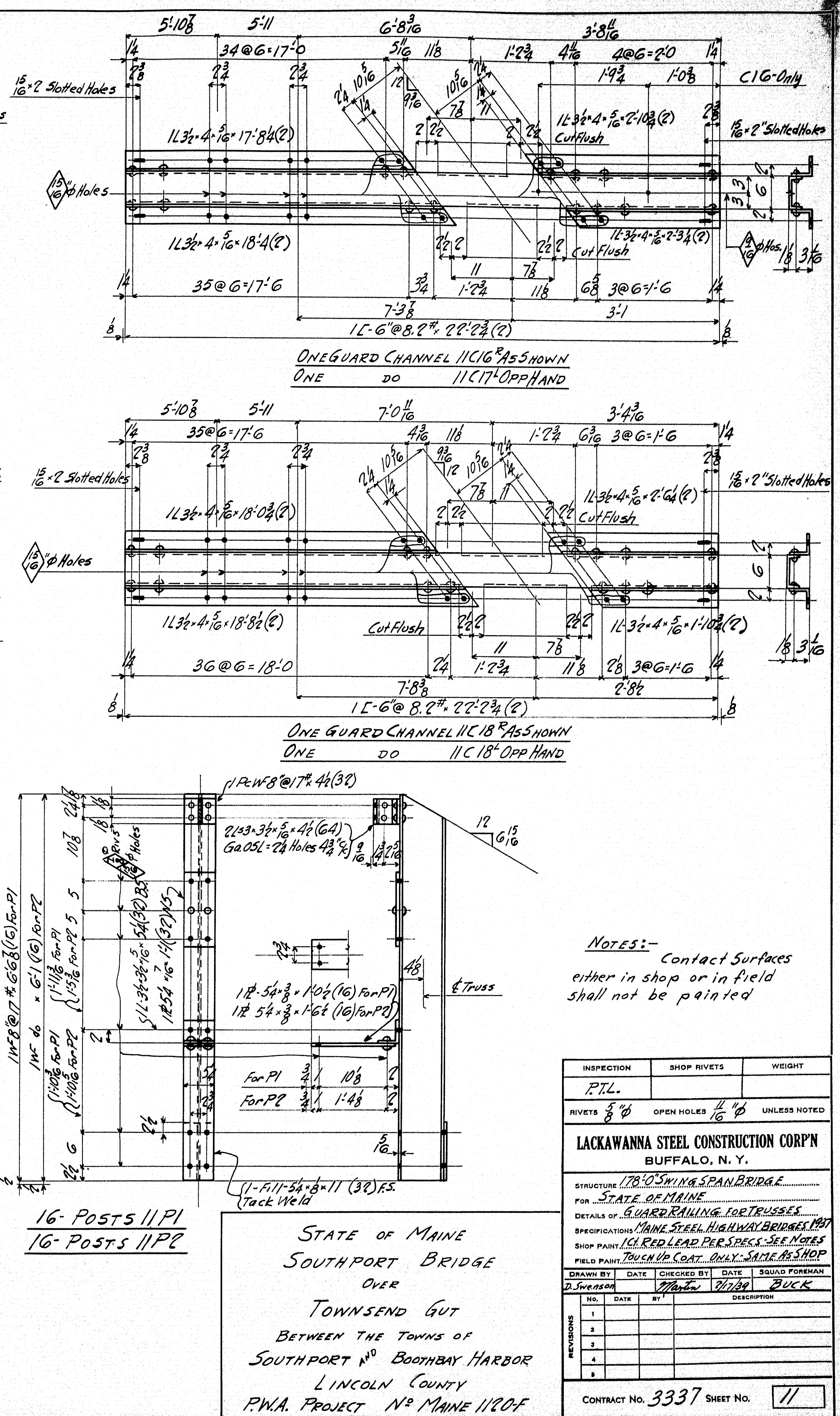
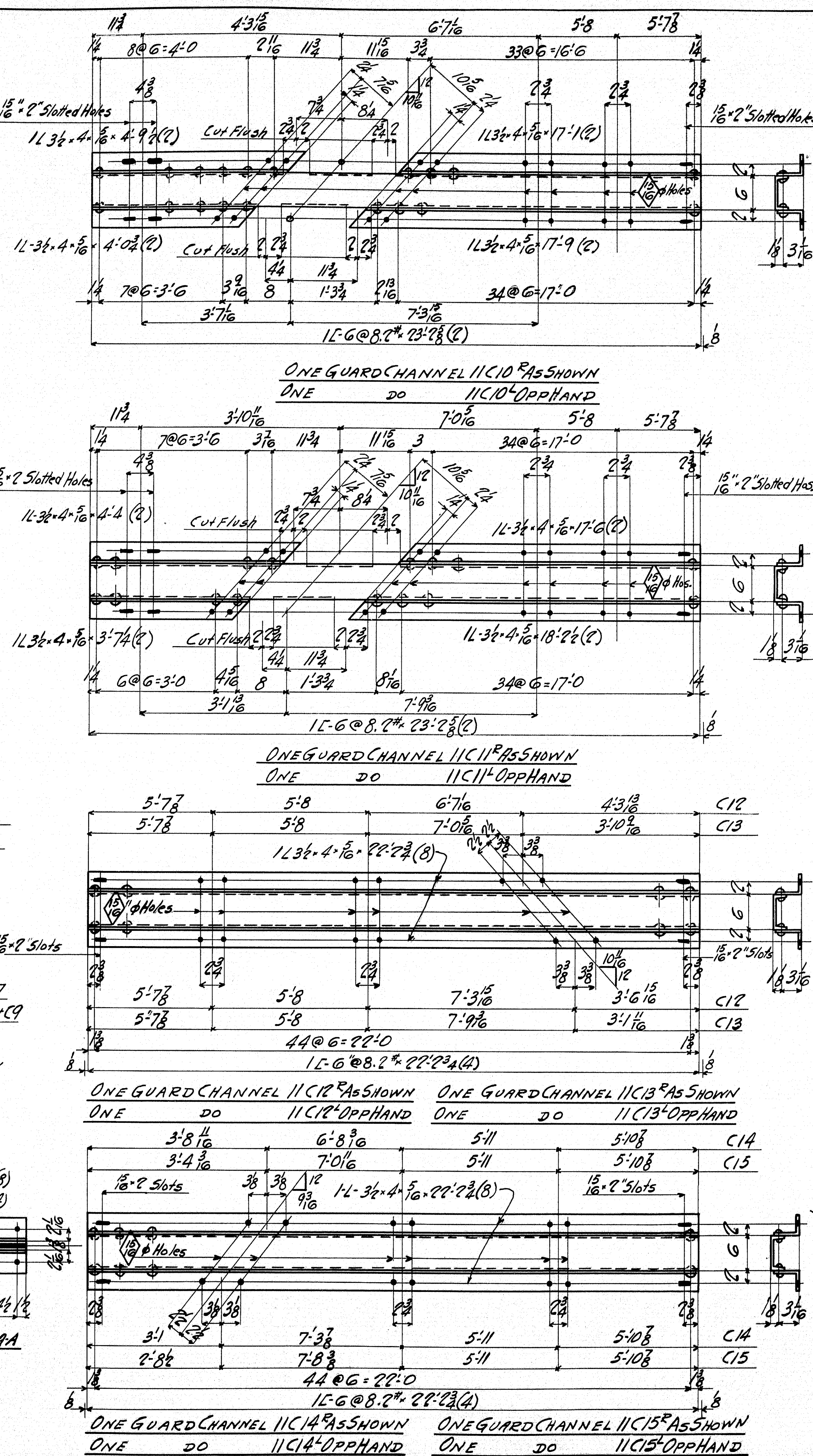
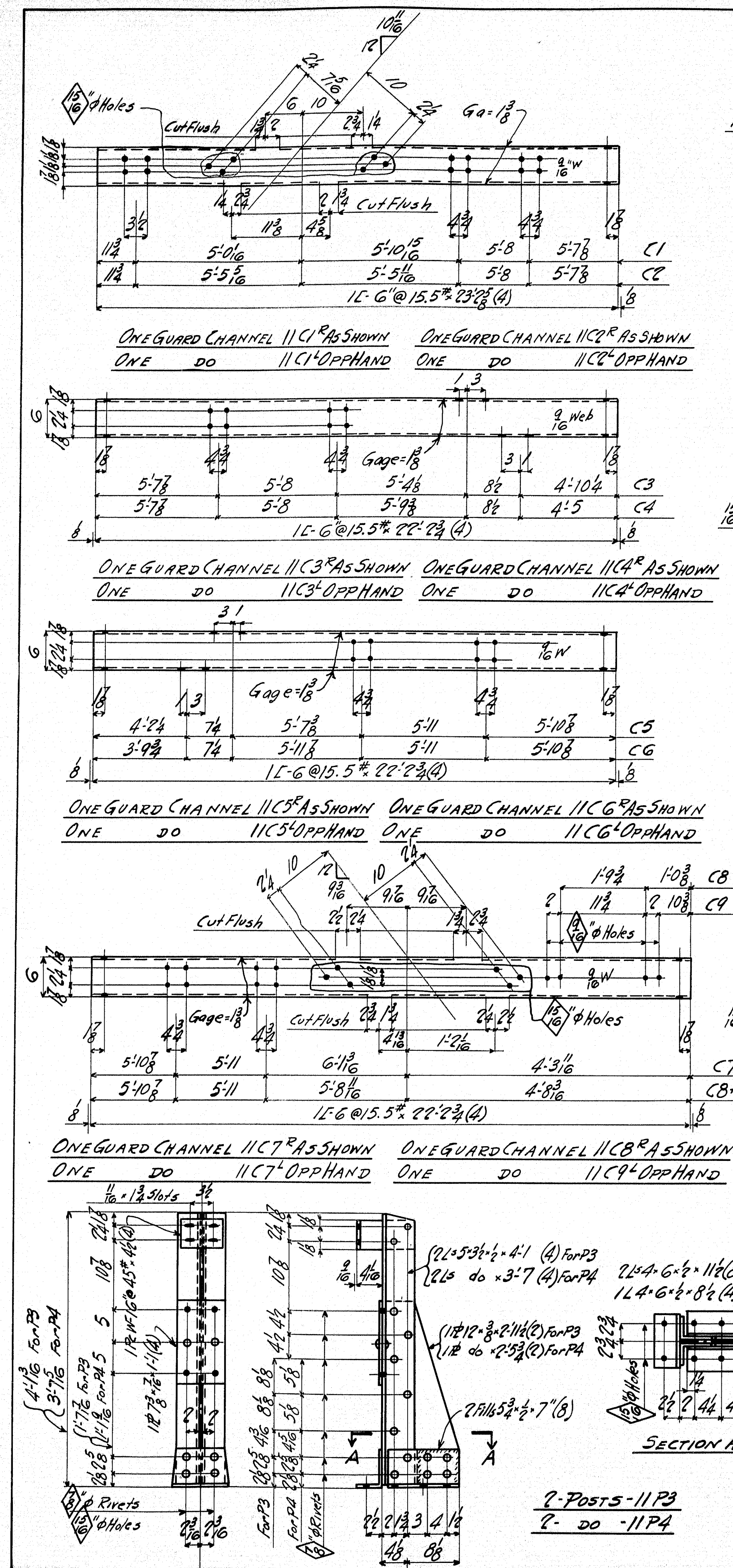
4- STRUTS - 1051
ONE- " - 1052
ONE- " - 1053
15" Holes

NOTES-

NO REAMING REQUIRED EXCEPT HOLES MARKED @ ARE TO BE SUB-PUNCHED 1/8" AND REAMED TO 1/8" WITH THE CONNECTING PARTS ASSEMBLED.
CONTACT SURFACES EITHER SHOP OR FIELD SHALL NOT BE PAINTED.

STATE OF MAINE
SOUTHPORT BRIDGE
OVER
TOWNSEND CUT
BETWEEN THE TOWNS OF
SOUTHPORT & BOOTHBAY HARBOR
LINCOLN COUNTY
P.W.A. PROJECT N° MAINE 1120-F

INSPECTION	SHOP RIVETS	WEIGHT
PTL		
RIVETS 3/4"	OPEN HOLES 1/8" UNLESS NOTED	
LACKAWANNA STEEL CONSTRUCTION CORP BUFFALO, N. Y.		
STRUCTURE 1120-SHINA SPAN BRIDGE		
FOR STATE OF MAINE		
DETAILS OF 100' SPAN LATERAL SYSTEM		
SPECIFICATIONS MAINE STEEL BRIDGE 1937		
SHOP PAINT 100' LEAD PER SPEC		
FIELD PAINT 100' LEAD PER SPEC		
DRAWN BY	DATE	CHECKED BY
D. Swanson	10/1/37	H.O.D.
NO.	DATE	BY
1		
2		
3		
4		
5		
CONTRACT No. 3337 SHEET No. 10		



NOTES:-
 Contact Surfaces
 either in shop or in field
 shall not be painted

INSPECTION		SHOP RIVETS		WEIGHT	
P.T.L.					
RIVETS	5/8"	OPEN HOLES	1/2"	UNLESS NOTED	
LACKAWANNA STEEL CONSTRUCTION CORP^N BUFFALO, N. Y.					
STRUCTURE 17805 SWING SPAN BRIDGE FOR STATE OF MAINE DETAILS OF GUARDRAILING FOR TRUSSES SPECIFICATIONS MAINE STEEL HIGHWAY BRIDGES 1937 SHOP PAINT 161 RED LEAD PER SPEC. SEE NOTES FIELD PAINT TOUCH UP COAT ONLY SAME AS SHOP					
DRAWN BY	DATE	CHECKED BY	DATE	SQUAD FOREMAN	
D. J. WILSON	7/1/30	W. B. BUCK			
REVISIONS					
1					
2					
3					
4					
5					
CONTRACT NO. 3337		SHEET NO.		11	

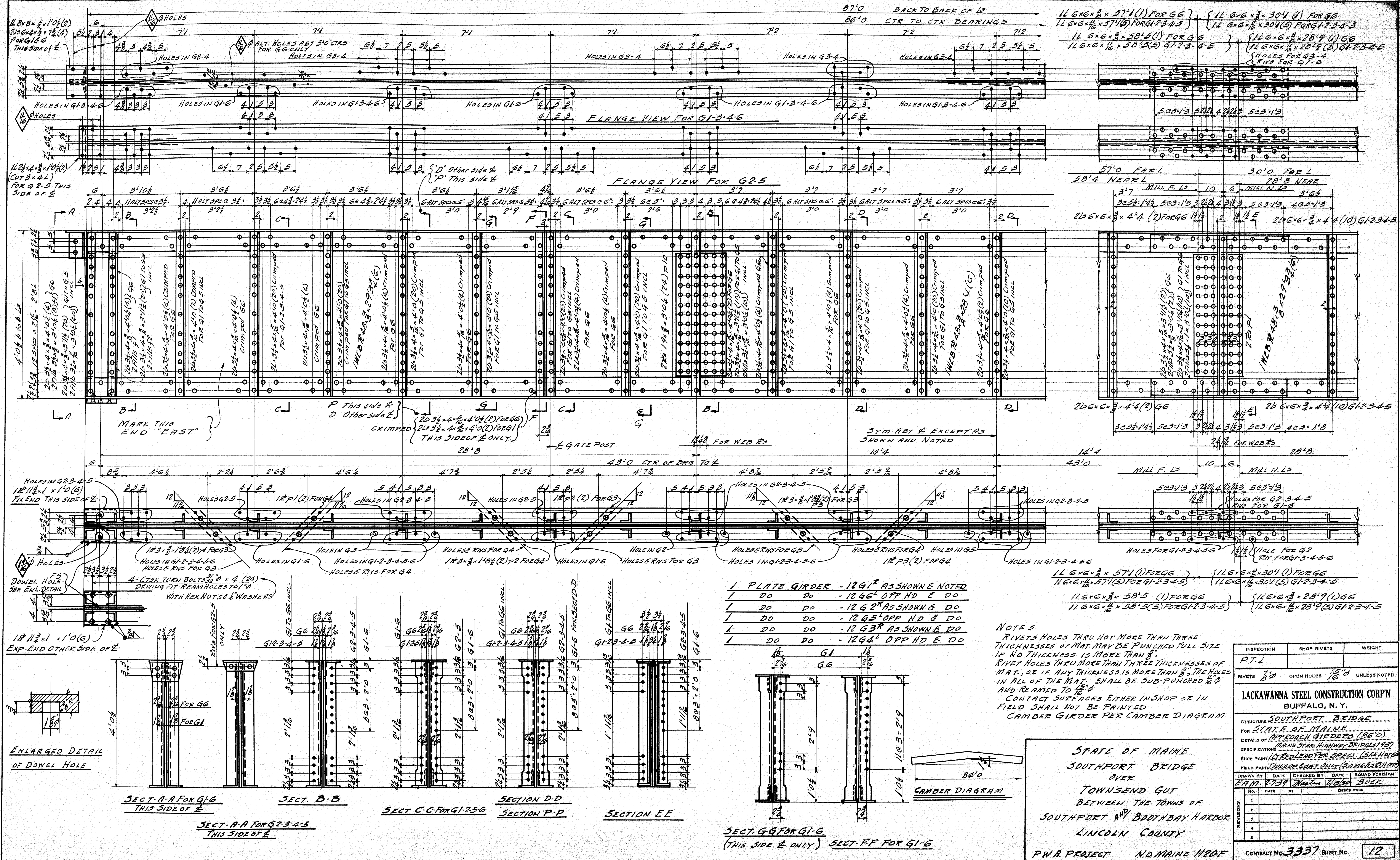
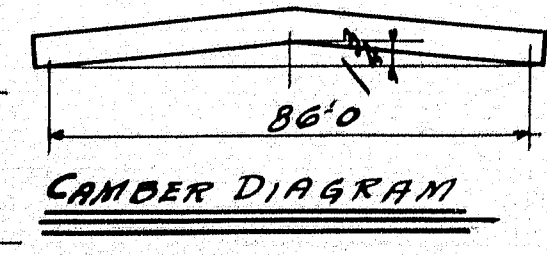


PLATE GIRDER - 12 G¹ AS SHOWN & NOTED

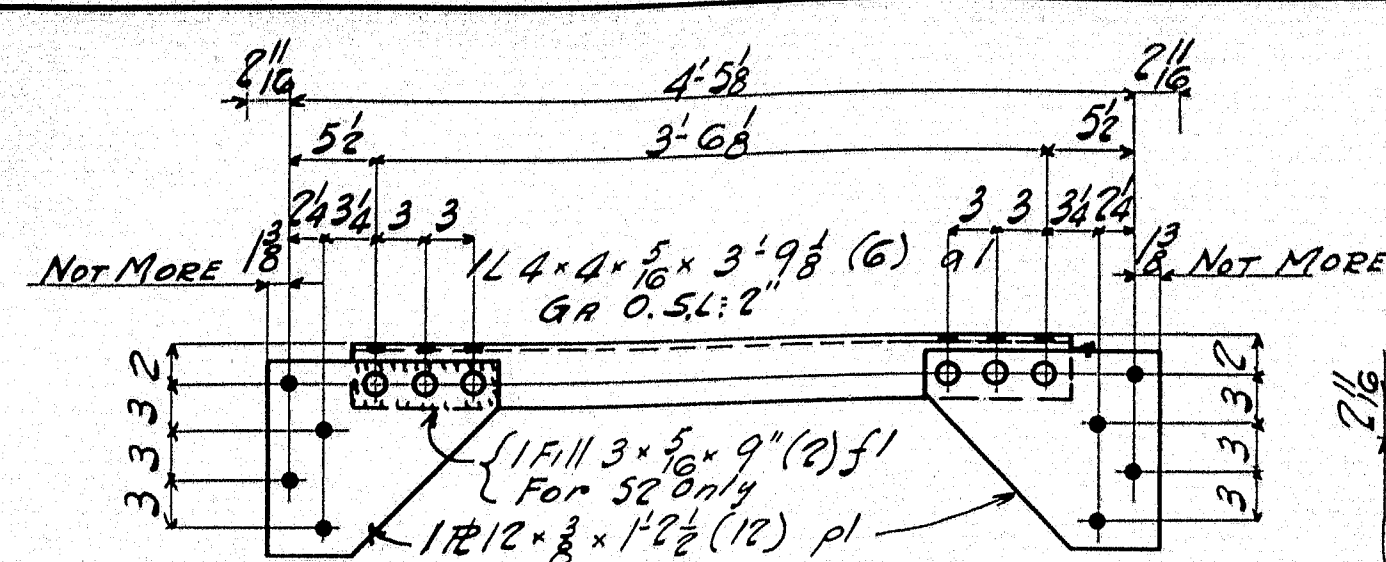
1	DO	DO	- 12 G ¹ TOP HD E DO
1	DO	DO	- 12 G ² TOP HD E DO
1	DO	DO	- 12 G ³ TOP HD E DO
1	DO	DO	- 12 G ⁴ TOP HD E DO
1	DO	DO	- 12 G ⁵ TOP HD E DO
1	DO	DO	- 12 G ⁶ TOP HD E DO
1	DO	DO	- 12 G ⁷ TOP HD E DO
1	DO	DO	- 12 G ⁸ TOP HD E DO
1	DO	DO	- 12 G ⁹ TOP HD E DO
1	DO	DO	- 12 G ¹⁰ TOP HD E DO
1	DO	DO	- 12 G ¹¹ TOP HD E DO
1	DO	DO	- 12 G ¹² TOP HD E DO

NOTES
 RIVETS HOLES THRU NOT MORE THAN THREE THICKNESSES OF MAT. MAY BE PUNCHED FULL SIZE IF NO THICKNESS IS MORE THAN 5".
 RIVET HOLES THRU MORE THAN THREE THICKNESSES OF MAT. OR IF ANY THICKNESS IS MORE THAN 5", THE HOLES IN ALL OF THE MAT. SHALL BE SUB-PUNCHED 1/8" AND REAMED TO 1/4".
 CONTACT SURFACES EITHER IN SHOP OR IN FIELD SHALL NOT BE PAINTED.
 CAMBER GIRDER PER CAMBER DIAGRAM

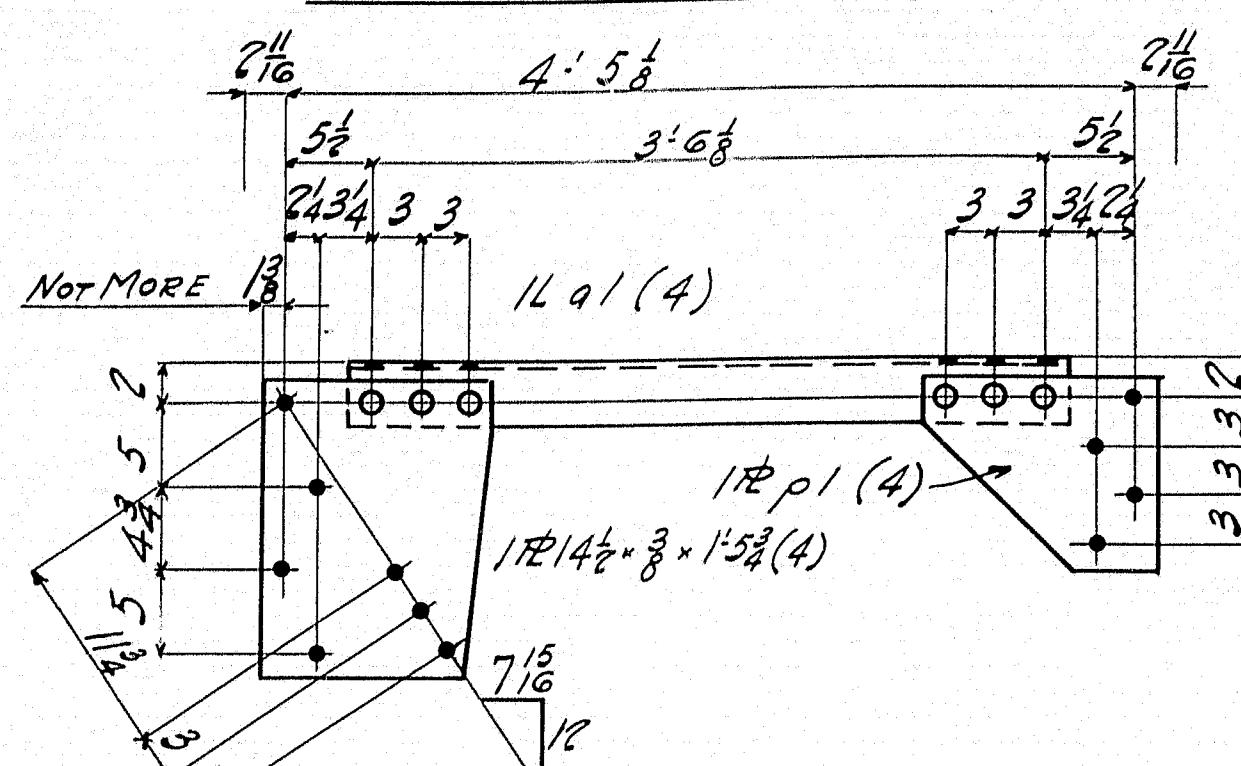


STATE OF MAINE
 SOUTHPORT BRIDGE
 OVER
 TOWNSEND CUT
 BETWEEN THE TOWNS OF
 SOUTHPORT & BODINY HARBOR
 LINCOLN COUNTY
 P.W.A. PROJECT NO. MAINE 1120F

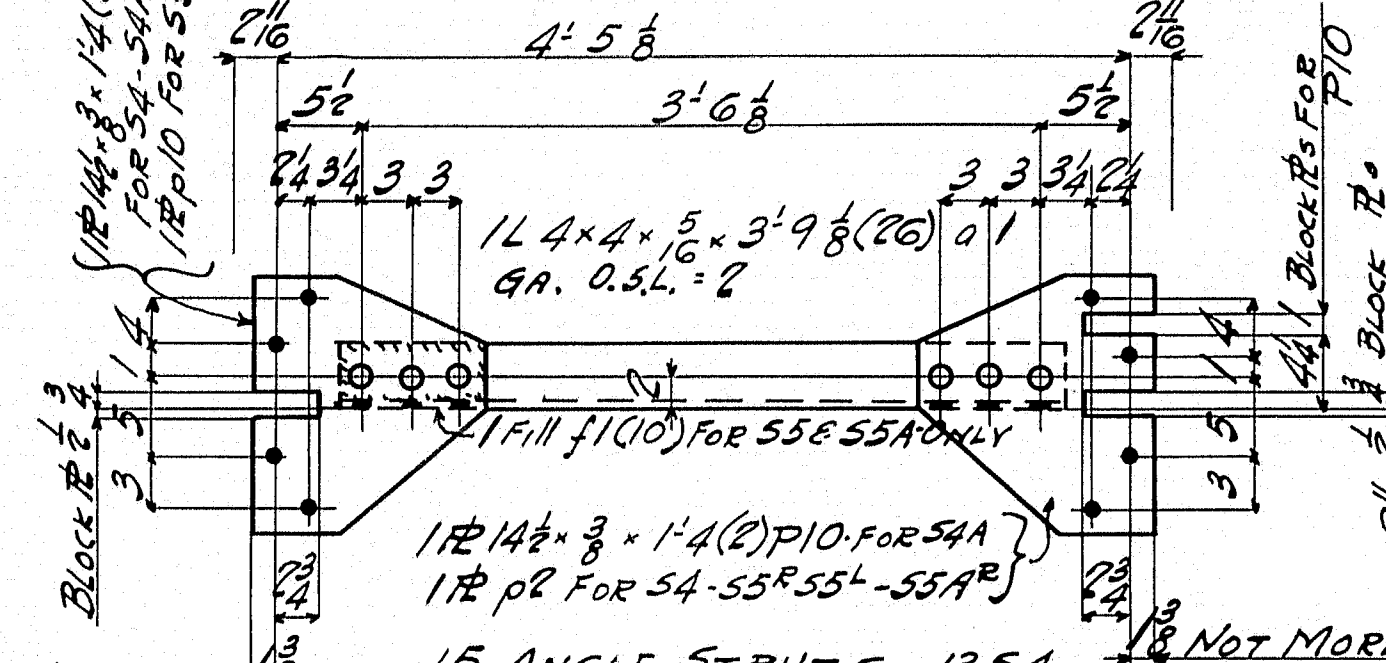
INSPECTION	SHOP RIVETS	WEIGHT
PTL		
RIVETS 7/8"	OPEN HOLES 1/8"	UNLESS NOTED
LACKAWANNA STEEL CONSTRUCTION CORP'N BUFFALO, N. Y.		
STRUCTURE SOUTHPORT BRIDGE		
FOR STATE OF MAINE		
DETAILS OF APPROACH GIRDERS (66'0")		
SPECIFICATIONS MAINE STEEL HIGHWAY BRIDGE 1937		
SHOP PAINT (SEE END OF DRAWING FOR SPEC.)		
FIELD PAINT (SEE END OF DRAWING FOR SPEC.)		
DRAWN BY	DATE	CHECKED BY
F.A.M. 8-7-34	11/23/34	W.B. BUCK
NO.	DATE	BY
1		
2		
3		
4		
5		
CONTRACT No. 3337		SHEET No. 12



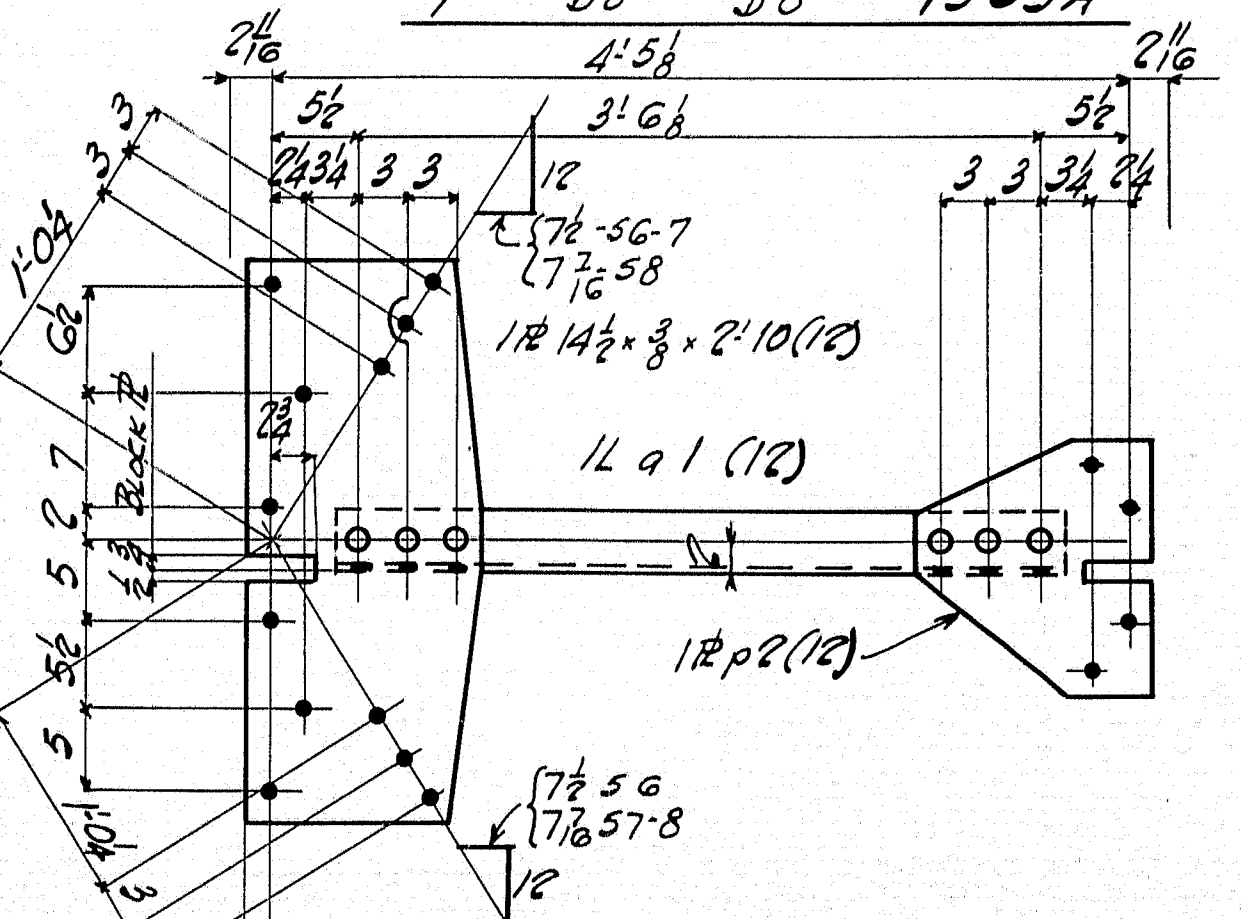
4 ANGLE STRUTS 1351		
1	DO	1352 AS SHOWN
1	DO	1353 OPP HD



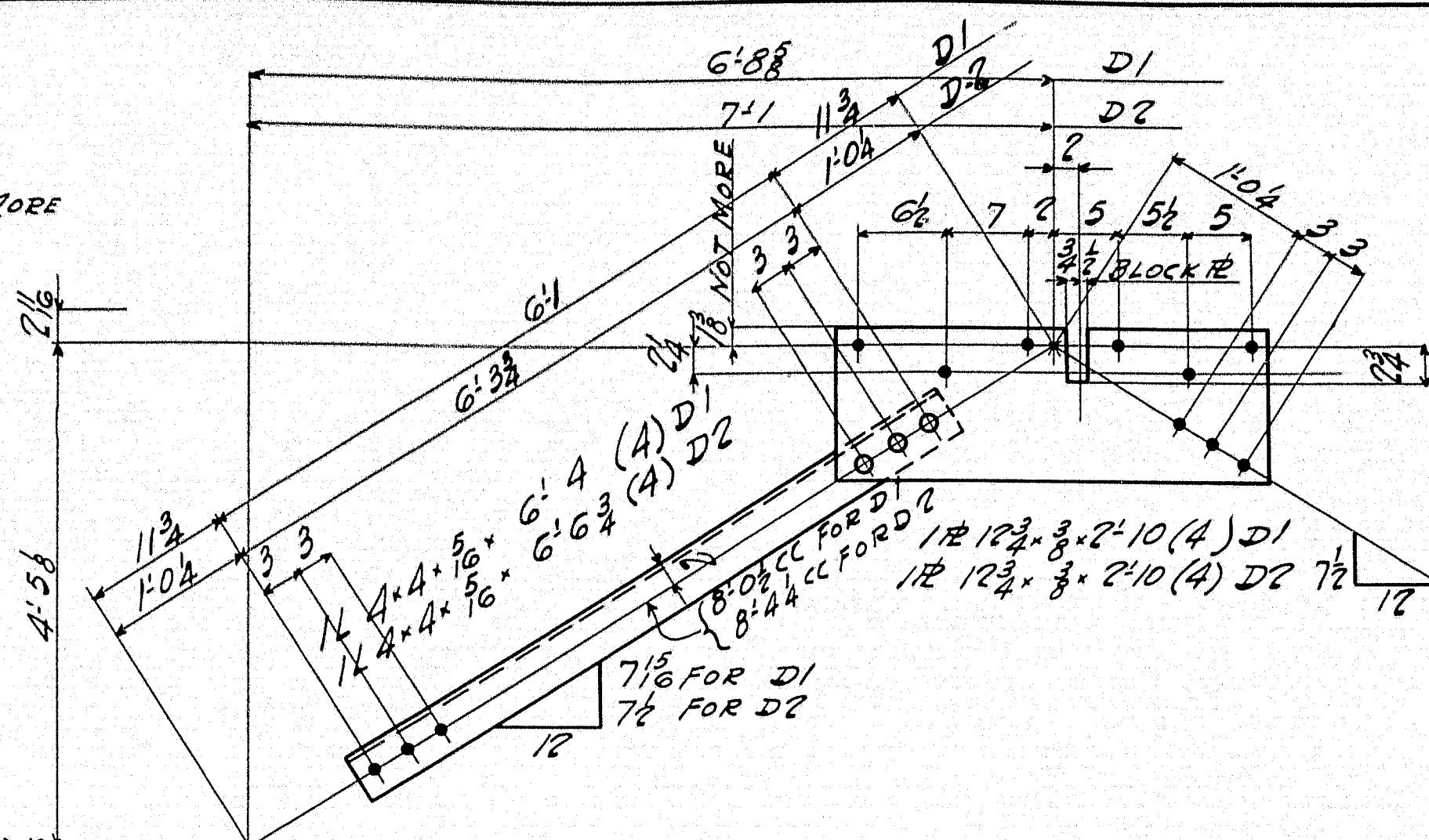
2 ANGLE STRUTS 1354 AS SHOWN		
2	DO	1355 AS SHOWN
2	DO	1356 OPP HD



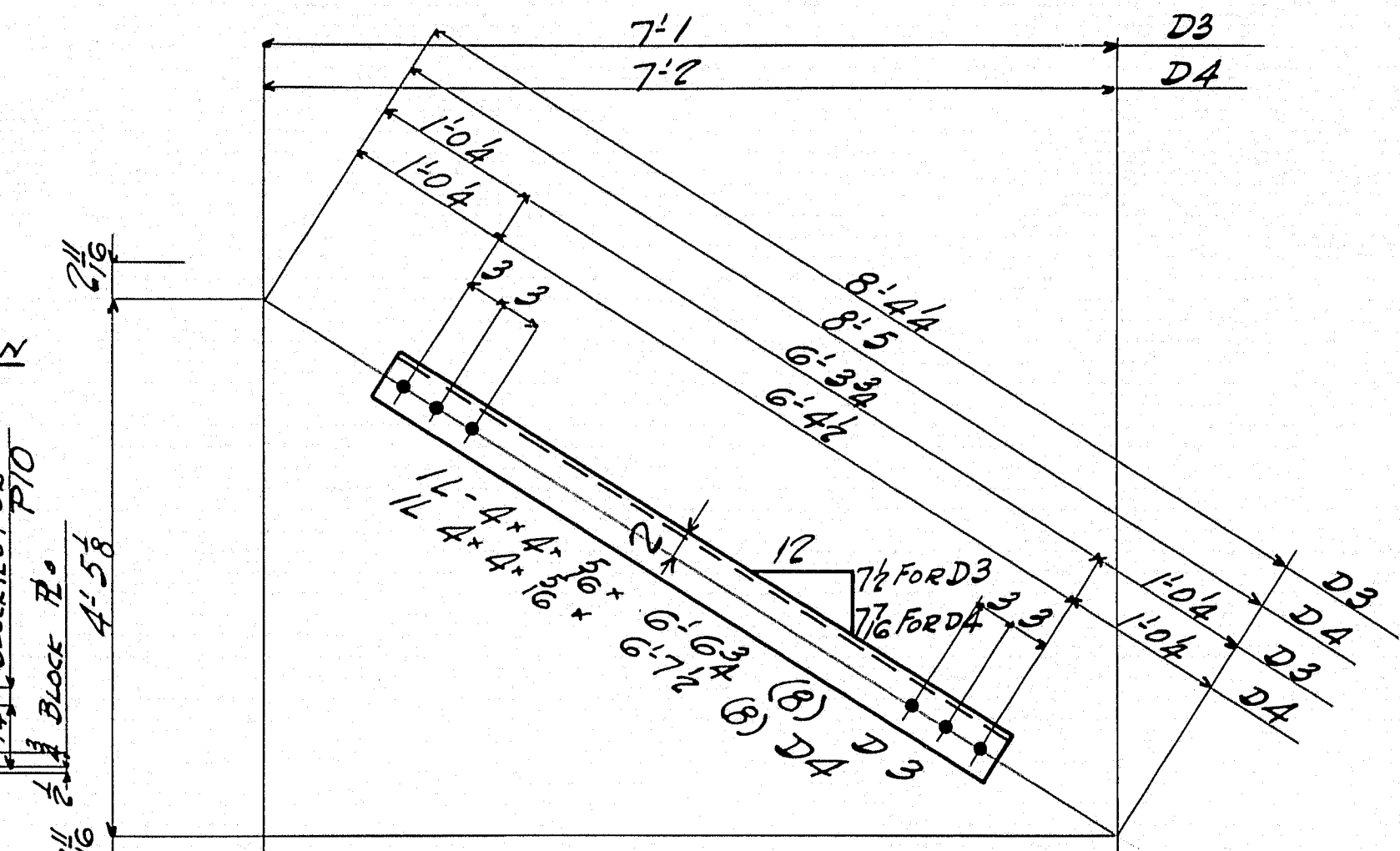
15 ANGLE STRUTS 1354		
5	DO	1355 AS SHOWN
4	DO	1356 OPP HD
1	DO	1357 AS SHOWN
1	DO	1358 AS SHOWN
1	DO	1359 AS SHOWN



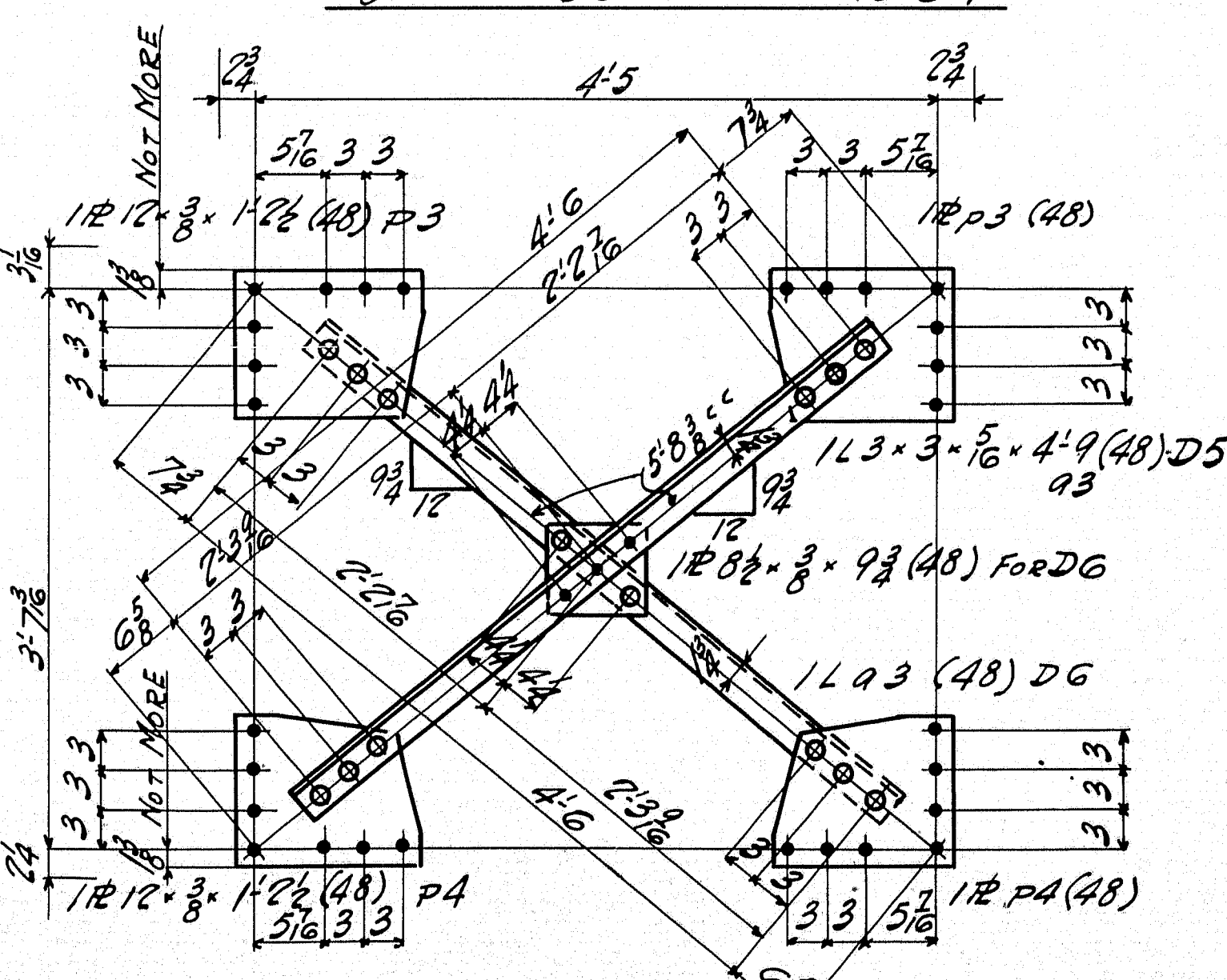
2 ANGLE STRUTS 1360 AS SHOWN		
2	DO	1361 AS SHOWN
1	DO	1362 AS SHOWN
1	DO	1363 AS SHOWN
3	DO	1364 AS SHOWN
3	DO	1365 AS SHOWN



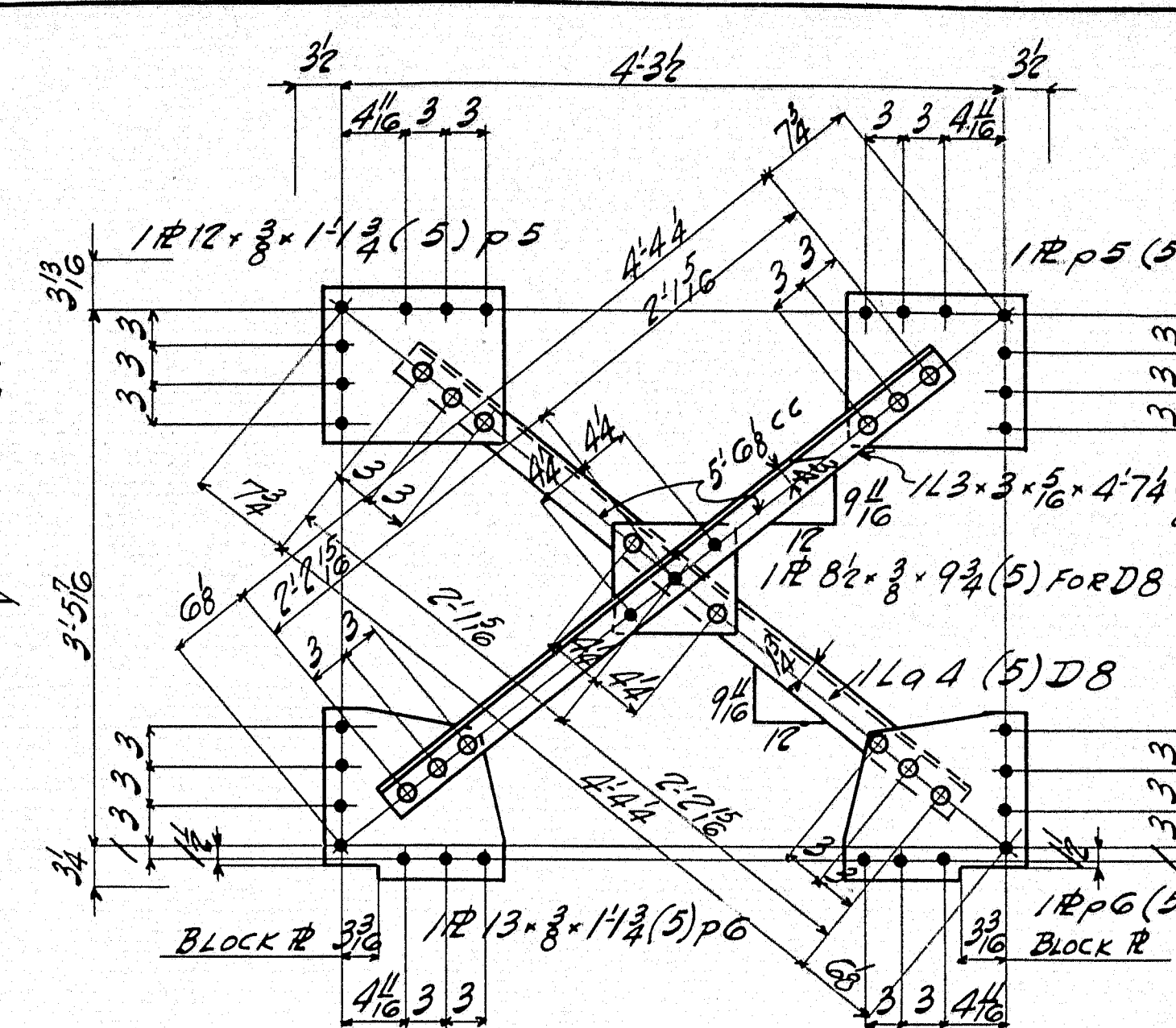
2 DIAGONALS 1366 AS SHOWN		
2	DO	1367 AS SHOWN
2	DO	1368 AS SHOWN
2	DO	1369 AS SHOWN
2	DO	1370 AS SHOWN



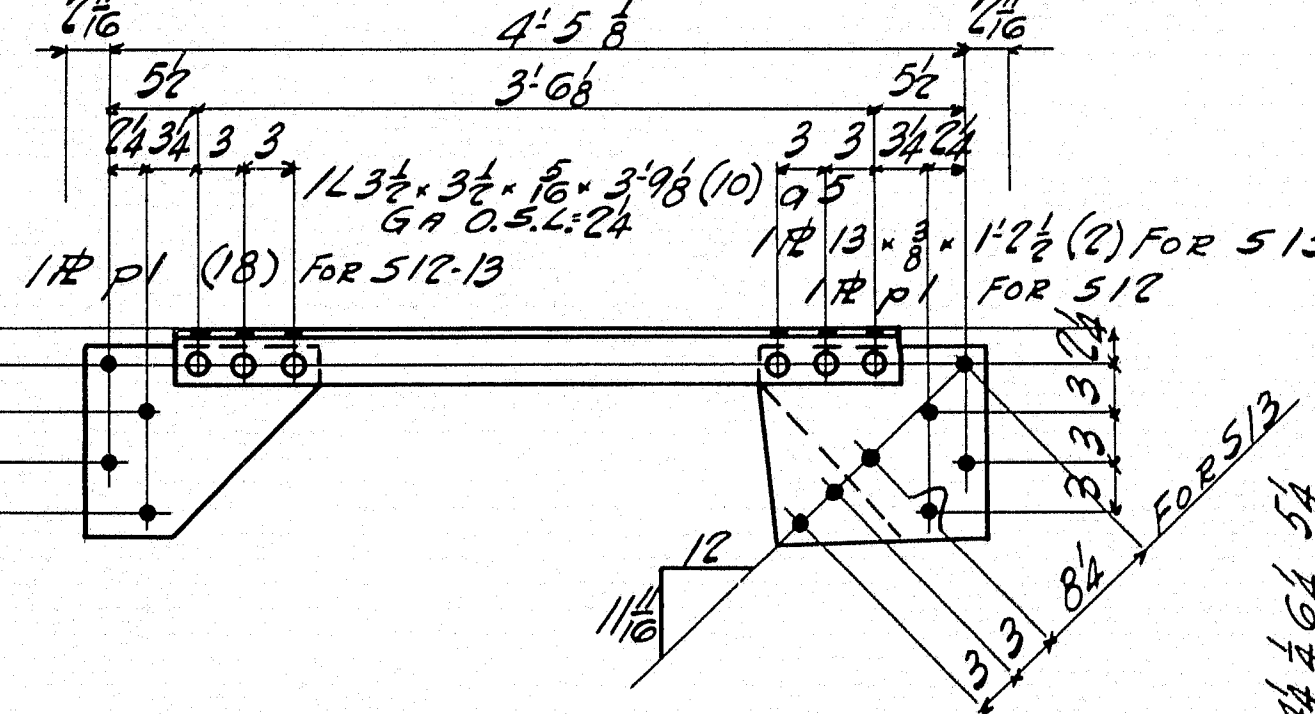
8 DIAGONALS 1371 AS SHOWN		
8	DO	1372 AS SHOWN
8	DO	1373 AS SHOWN



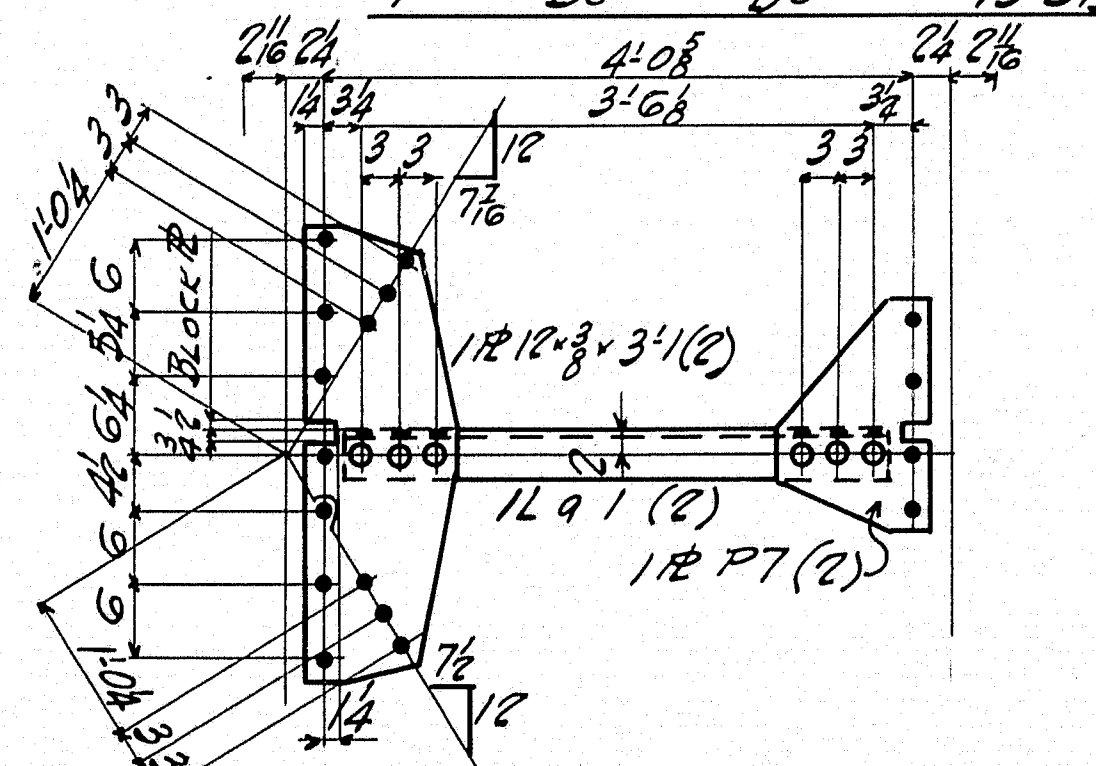
48 DIAGONALS 1374 AS SHOWN		
48	DO	1375 AS SHOWN
48	DO	1376 AS SHOWN



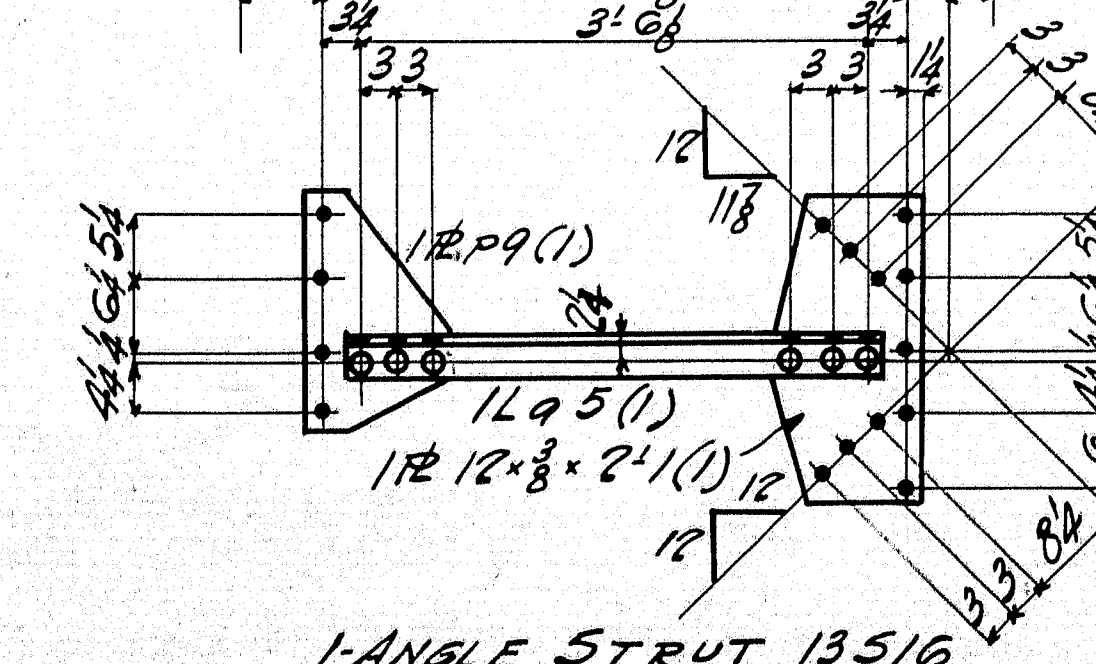
5 DIAGONALS 1377 AS SHOWN		
5	DO	1378 AS SHOWN
5	DO	1379 AS SHOWN



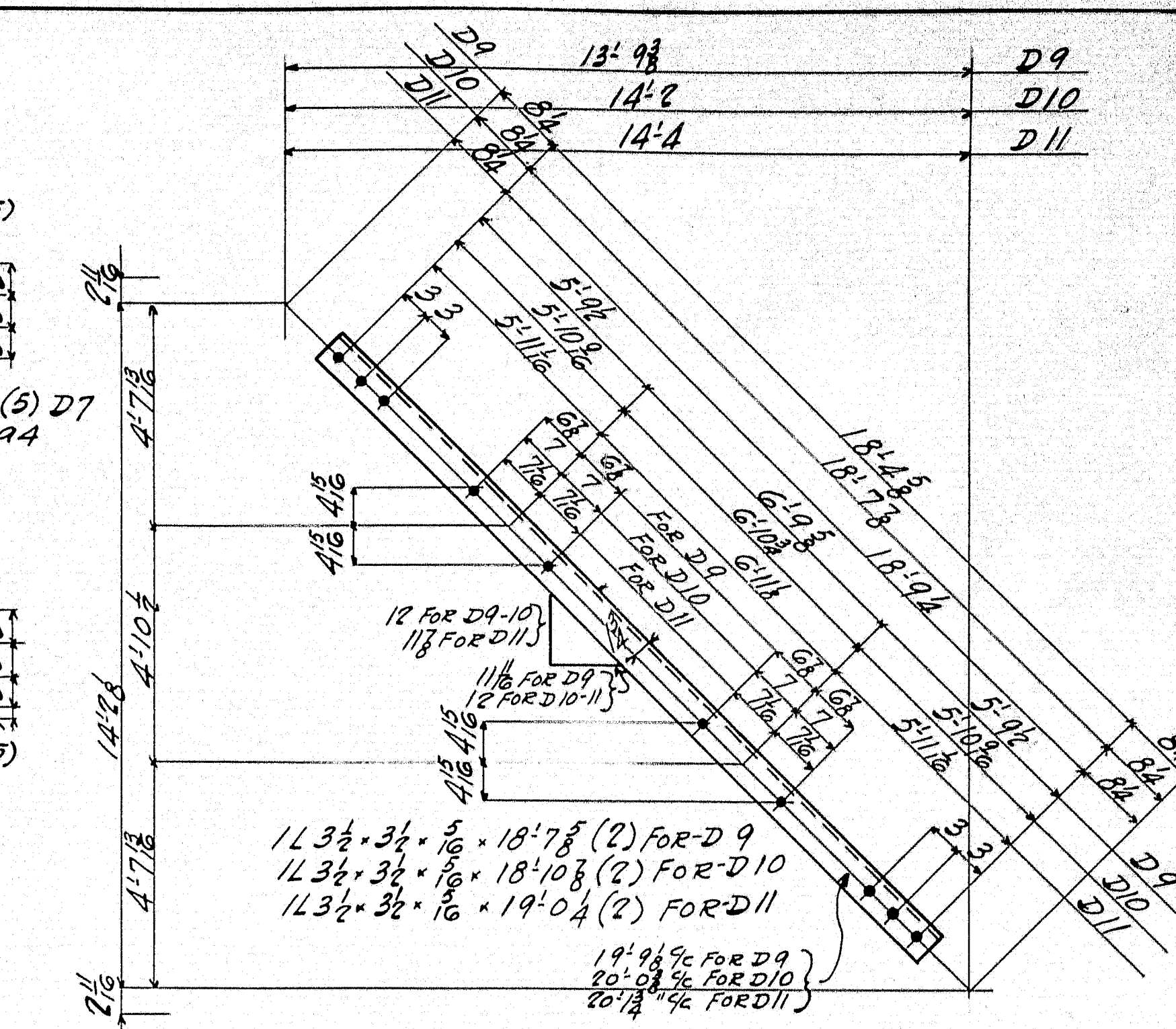
8 ANGLE STRUTS 1380 AS SHOWN		
1	DO	1381 AS SHOWN
1	DO	1382 AS SHOWN
1	DO	1383 AS SHOWN



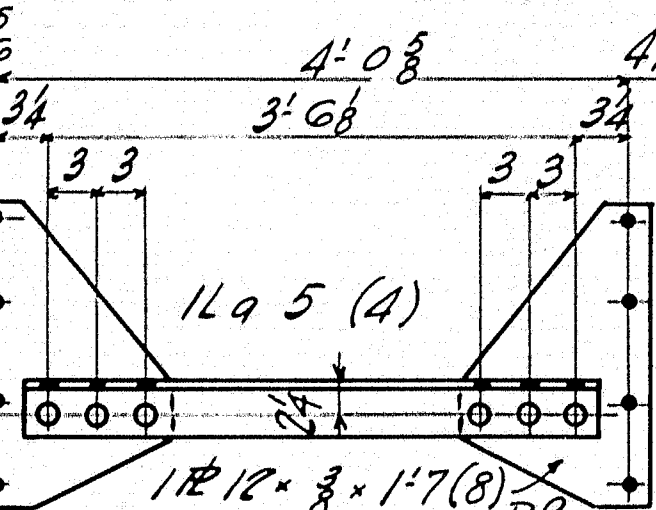
1 ANGLE STRUT 1384 AS SHOWN		
1	DO	1385 AS SHOWN
1	DO	1386 AS SHOWN



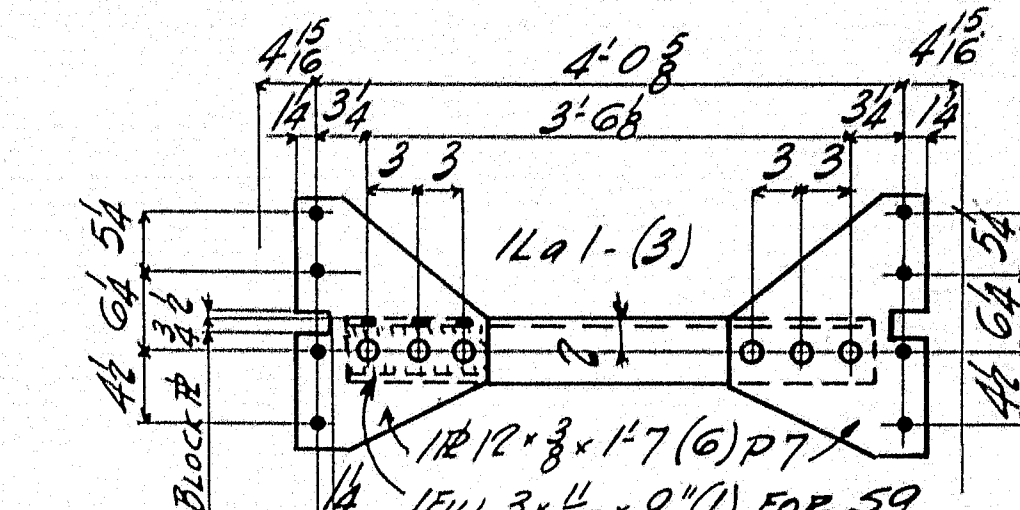
1 ANGLE STRUT 1387 AS SHOWN		
1	DO	1388 AS SHOWN
1	DO	1389 AS SHOWN



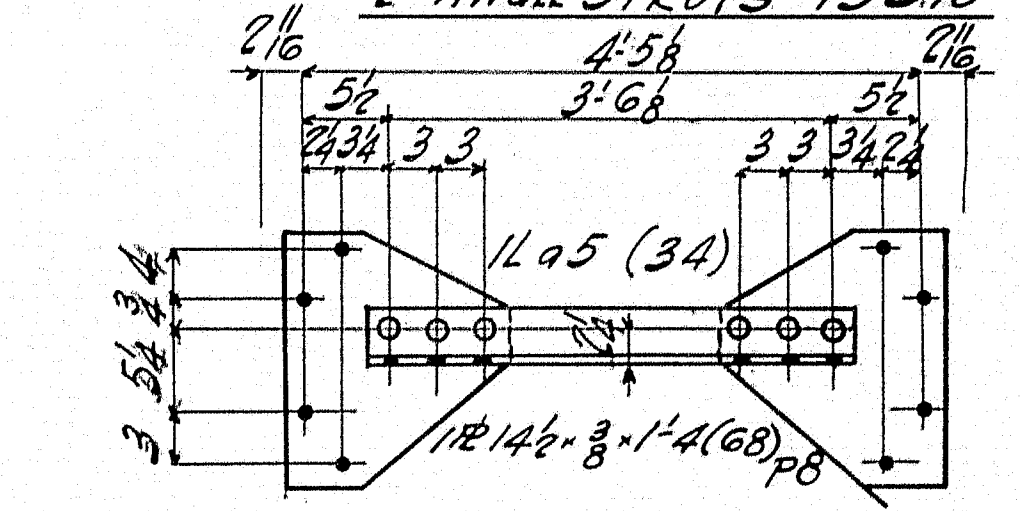
2 DIAGONALS 1390 AS SHOWN		
2	DO	1391 AS SHOWN
2	DO	1392 AS SHOWN



4 ANGLE STRUTS 1393 AS SHOWN		
1	DO	1394 AS SHOWN
1	DO	1395 AS SHOWN
1	DO	1396 AS SHOWN



1 ANGLE STRUT 1397 AS SHOWN		
1	DO	1398 AS SHOWN
1	DO	1399 AS SHOWN

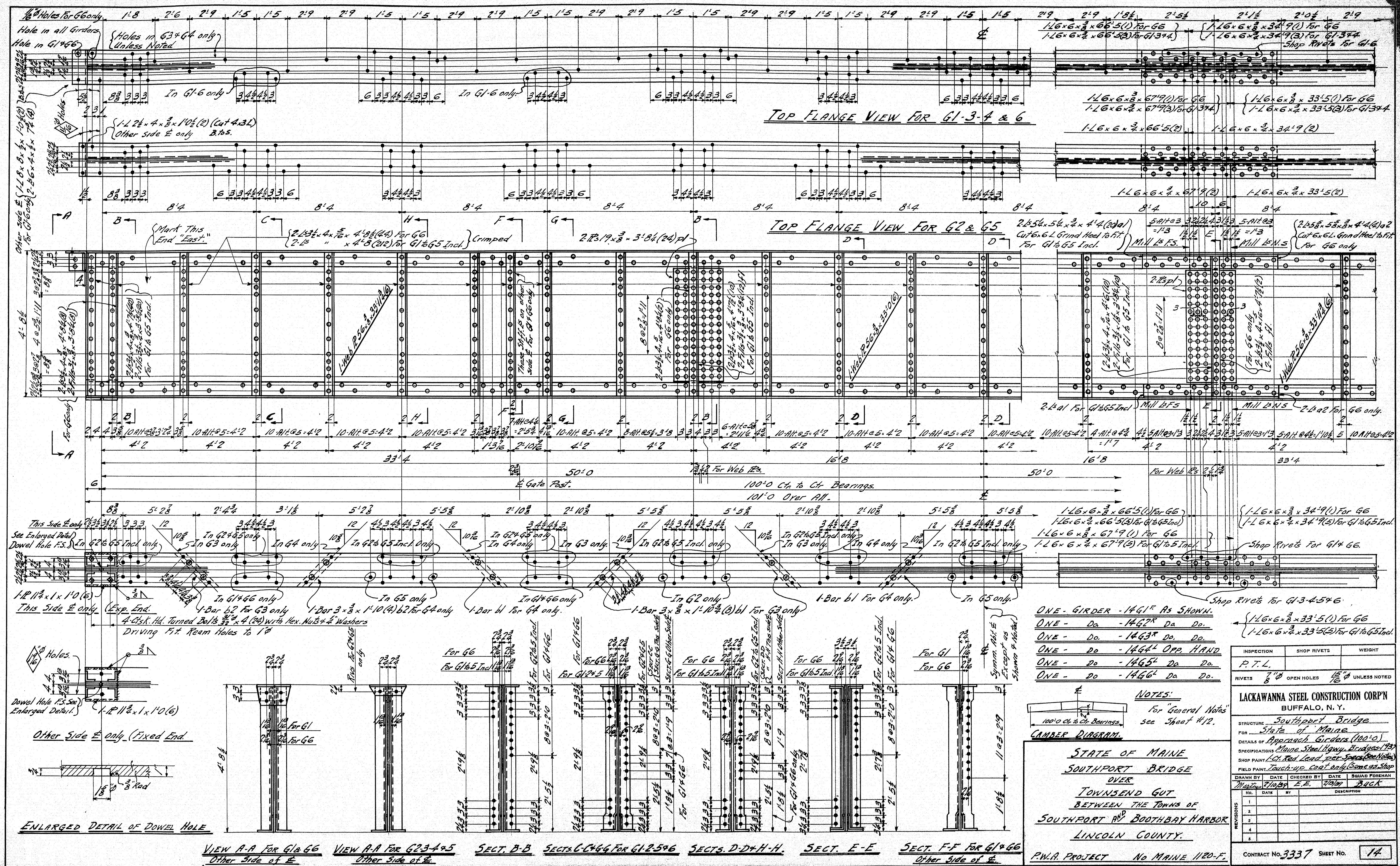


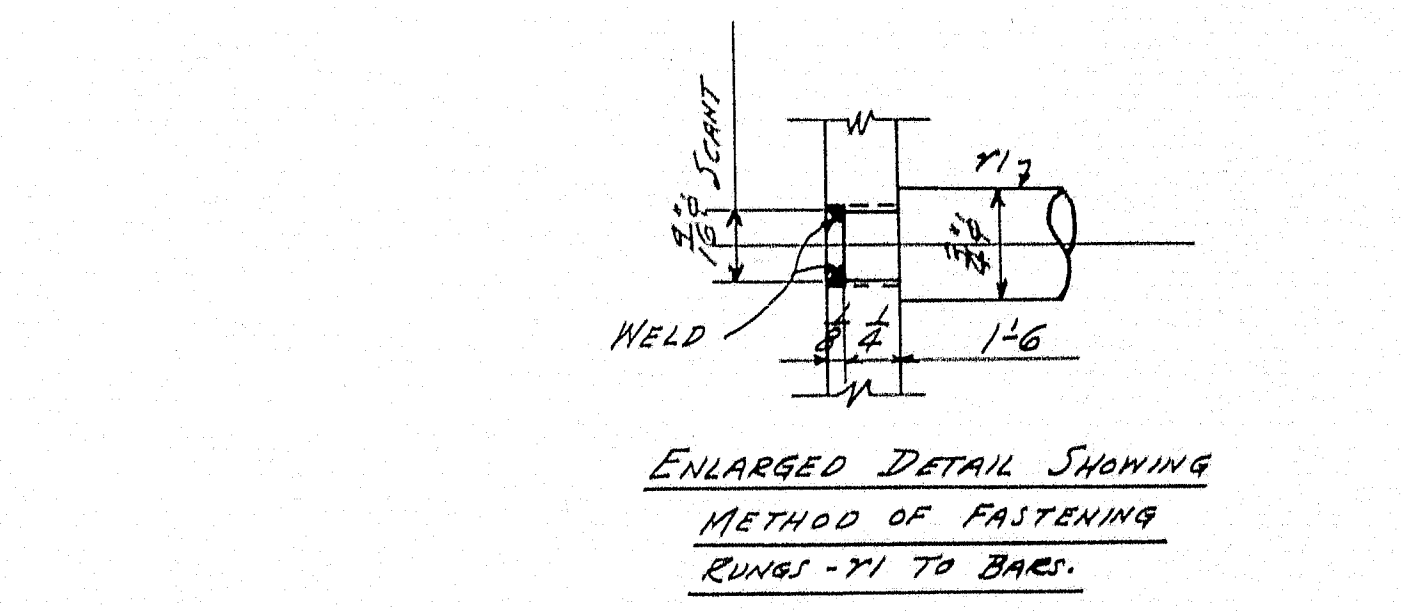
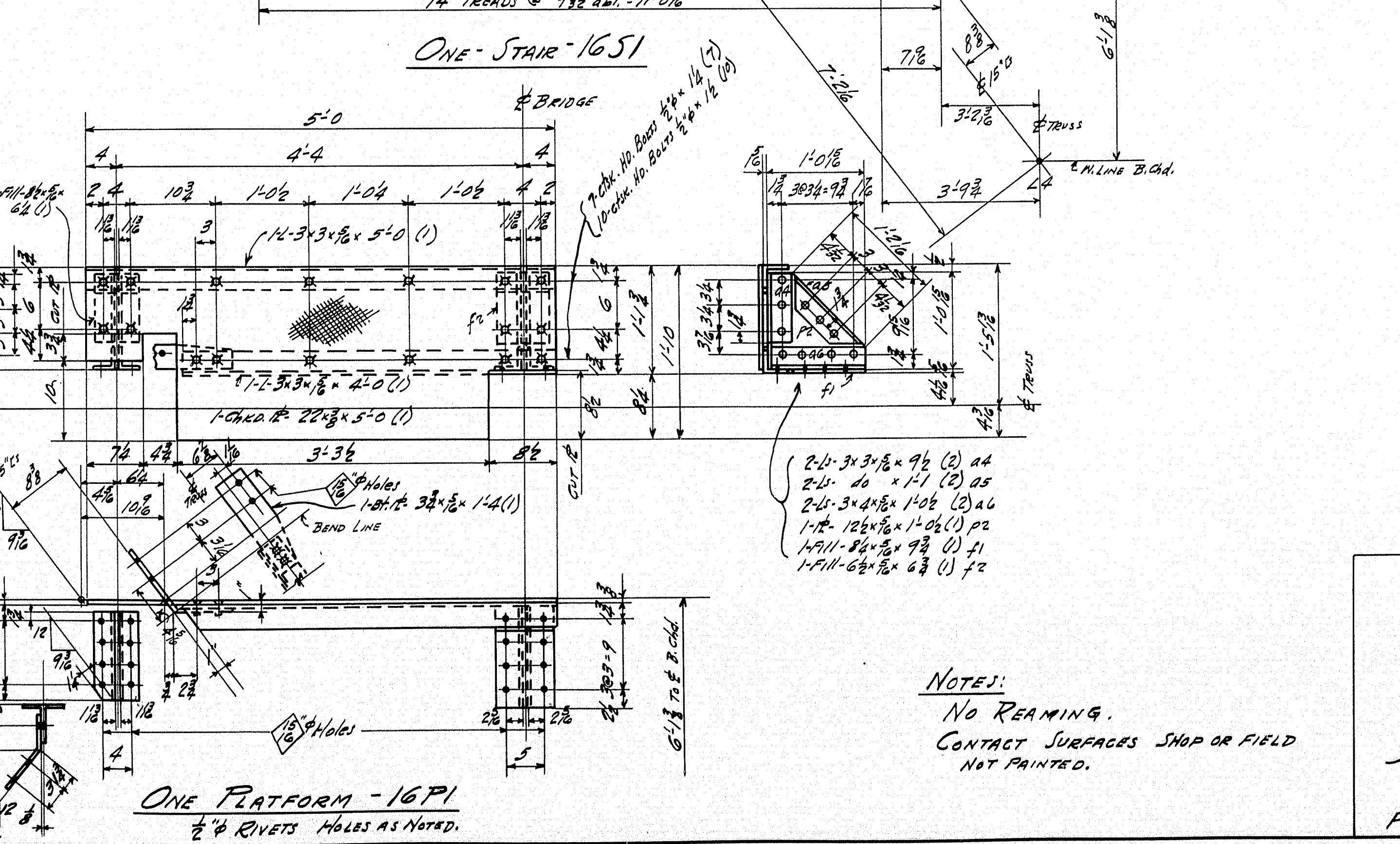
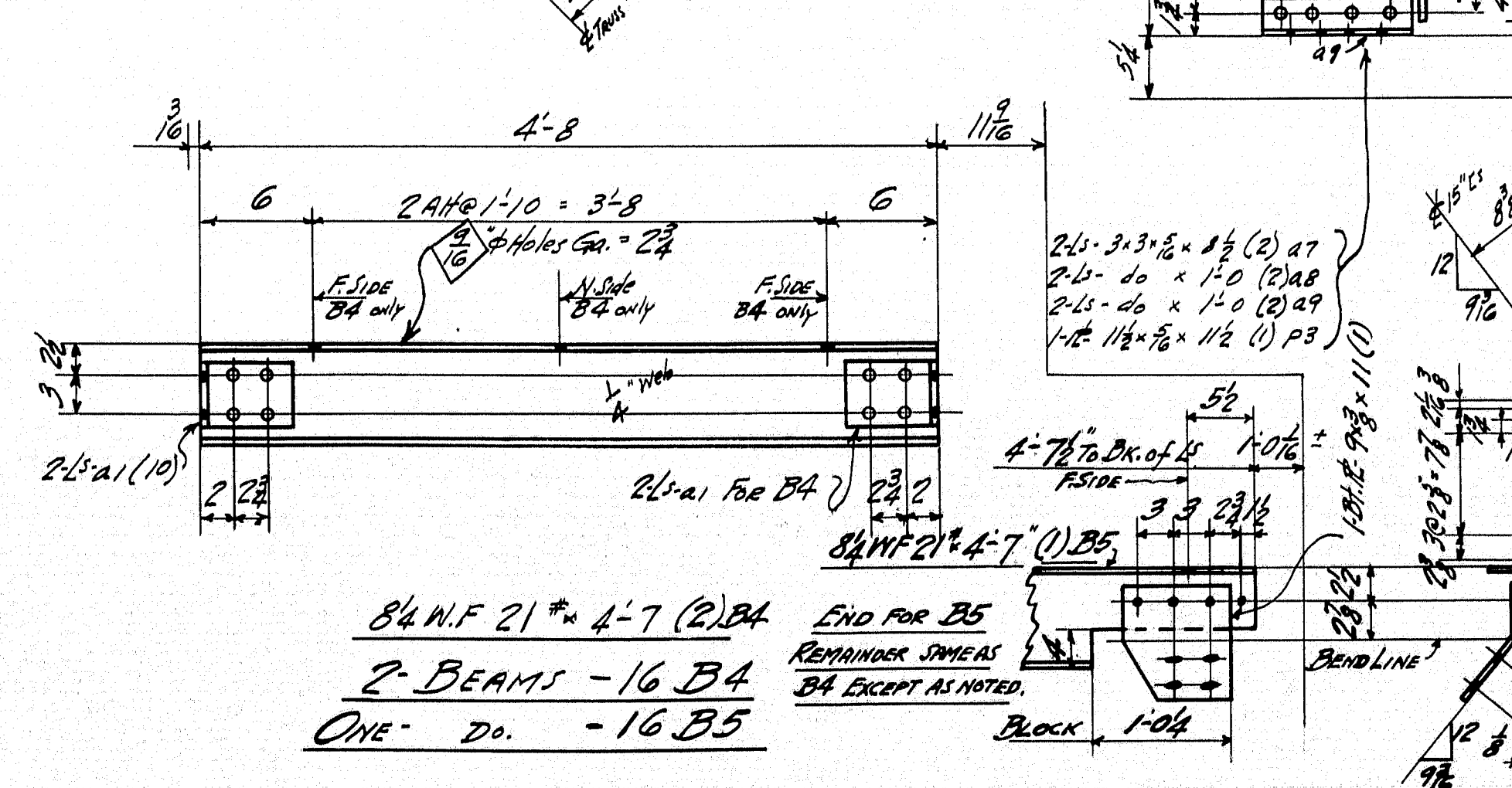
34 ANGLE STRUTS 1400 AS SHOWN		
34	DO	1401 AS SHOWN
34	DO	1402 AS SHOWN

NOTES
CONTACT SURFACES
EITHER SHOP OR FIELD
SHALL NOT BE PRINTED

STATE OF MAINE
SOUTHPORT BRIDGE
OVER
TOWNSEND CUT
BETWEEN THE TOWNS OF
SOUTHPORT AND BOOTHBAY HARBOR
LINCOLN COUNTY
P.W.A. PROJECT No. MAINE 1120-F

INSPECTION	SHOP RIVETS	WEIGHT
P.L.L.		
RIVETS	7/8" OPEN HOLES 1/8" UNLESS NOTED	
LACKAWANNA STEEL CONSTRUCTION CORP'N BUFFALO, N. Y.		
STRUCTURE SOUTHPORT BRIDGE		
FOR STATE OF MAINE		
DETAILS OF APPROACH STRUTS & DIAG.		
SPECIFICATIONS MAIN STEEL HIGHWAY BRIDGES 1937		
SHOP PAINT: 100% RADLEAD PER SPACE (SEE NOTES)		
FIELD PAINT: TOUCH UP COAT ONLY (SHIMMER SHOP)		
DRAWN BY	DATE	CHECKED BY
E.M. 2-29-39	11/1/39	BUCK
NO.	DATE	BY
1		
2		
3		
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5		
CONTRACT No. 3337 SHEET No. 13		





INSPECTION	SHOP RIVETS	WEIGHT
P.T.L.		
RIVETS 3/4"	OPEN HOLES 1 1/2"	UNLESS NOTED

LACKAWANNA STEEL CONSTRUCTION CORP^{NS}
BUFFALO, N. Y.

STRUCTURE 176'-0" SWING SPAN BRIDGE
 FOR STATE OF MAINE
 DETAILS OF BEAMS, STAIRS, LADDERS, ETC.
 SPECIFICATIONS MAINE STATE HIGHWAY BRIDGES 1921
12" DEEP 12" LEAD & OIL RESISTANT GRADE
 SHOP PAINT 70 LBS UP GRAY OILY GRAVE AS SHOWN
 FIELD PAINT 70 LBS UP GRAY OILY GRAVE AS SHOWN

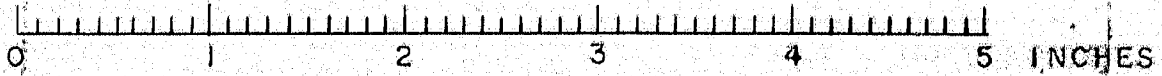
DRAWN BY	DATE	CHECKED BY	DATE	SQUAD FOREMAN
424104	4/4/29	R	4/27/29	BUCK

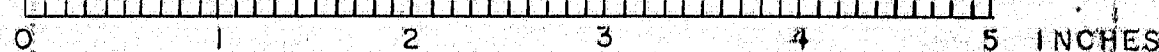
REVISIONS	NO.	DATE	BY	DESCRIPTION
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	2			
	3			
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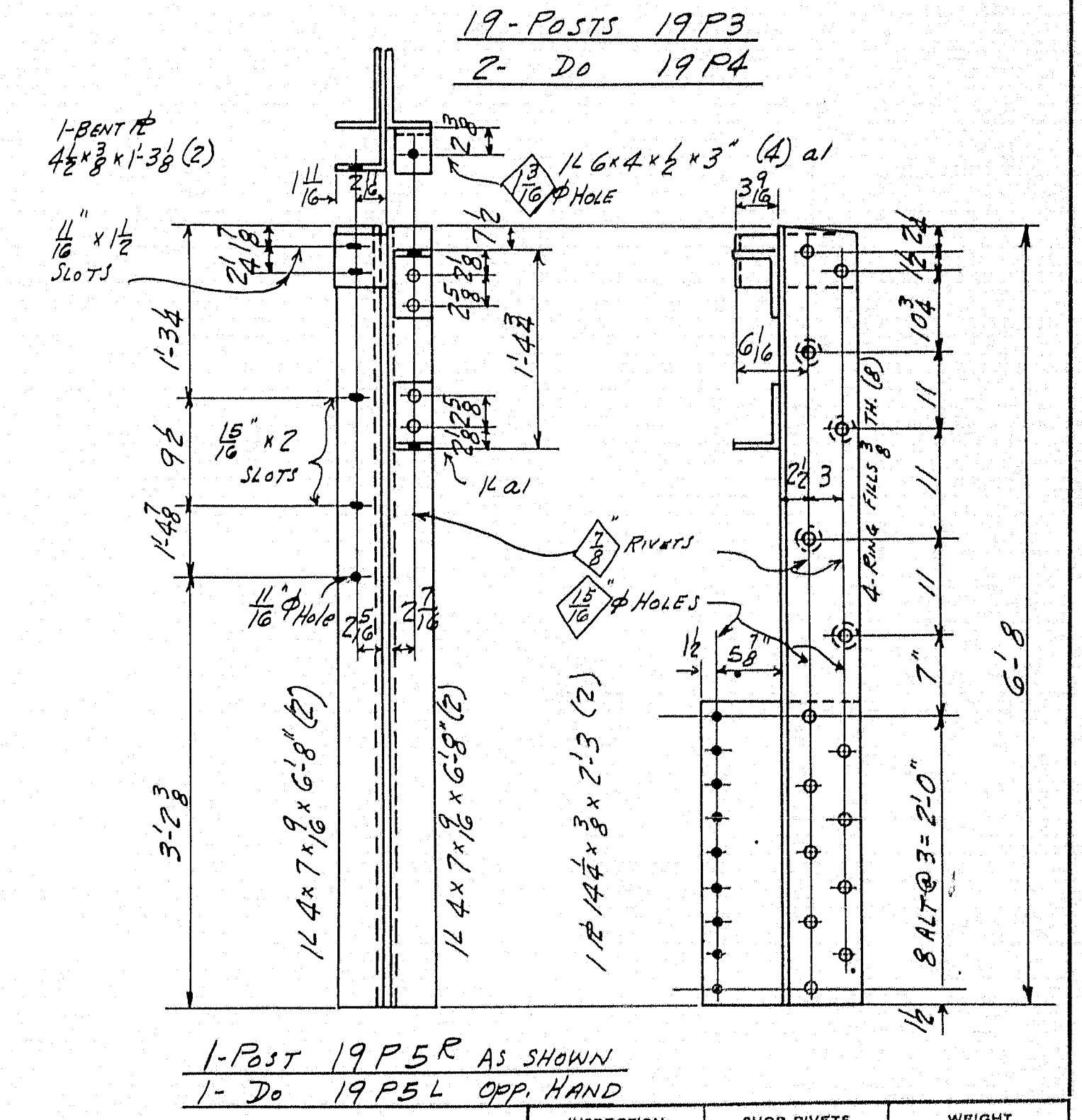
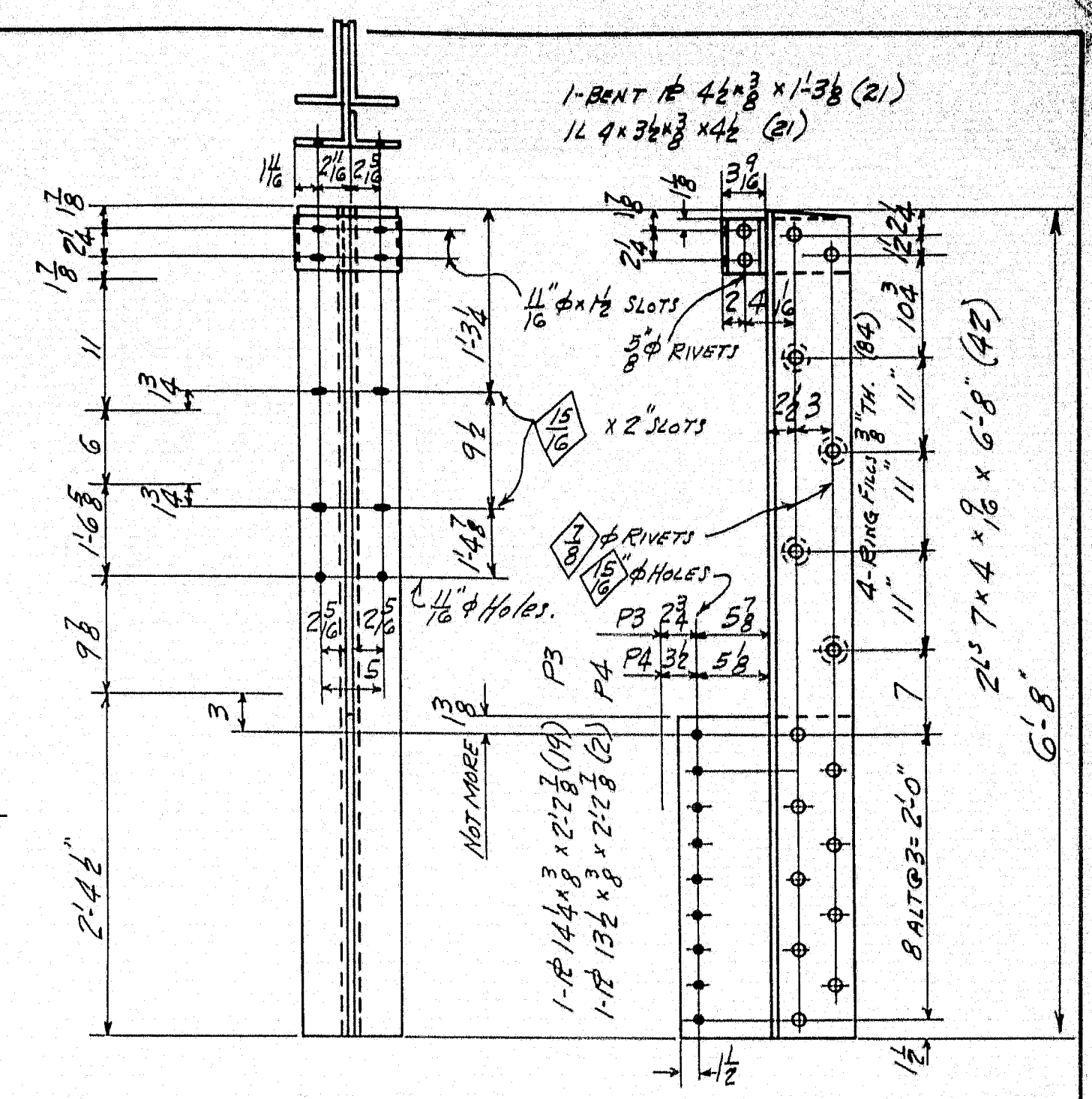
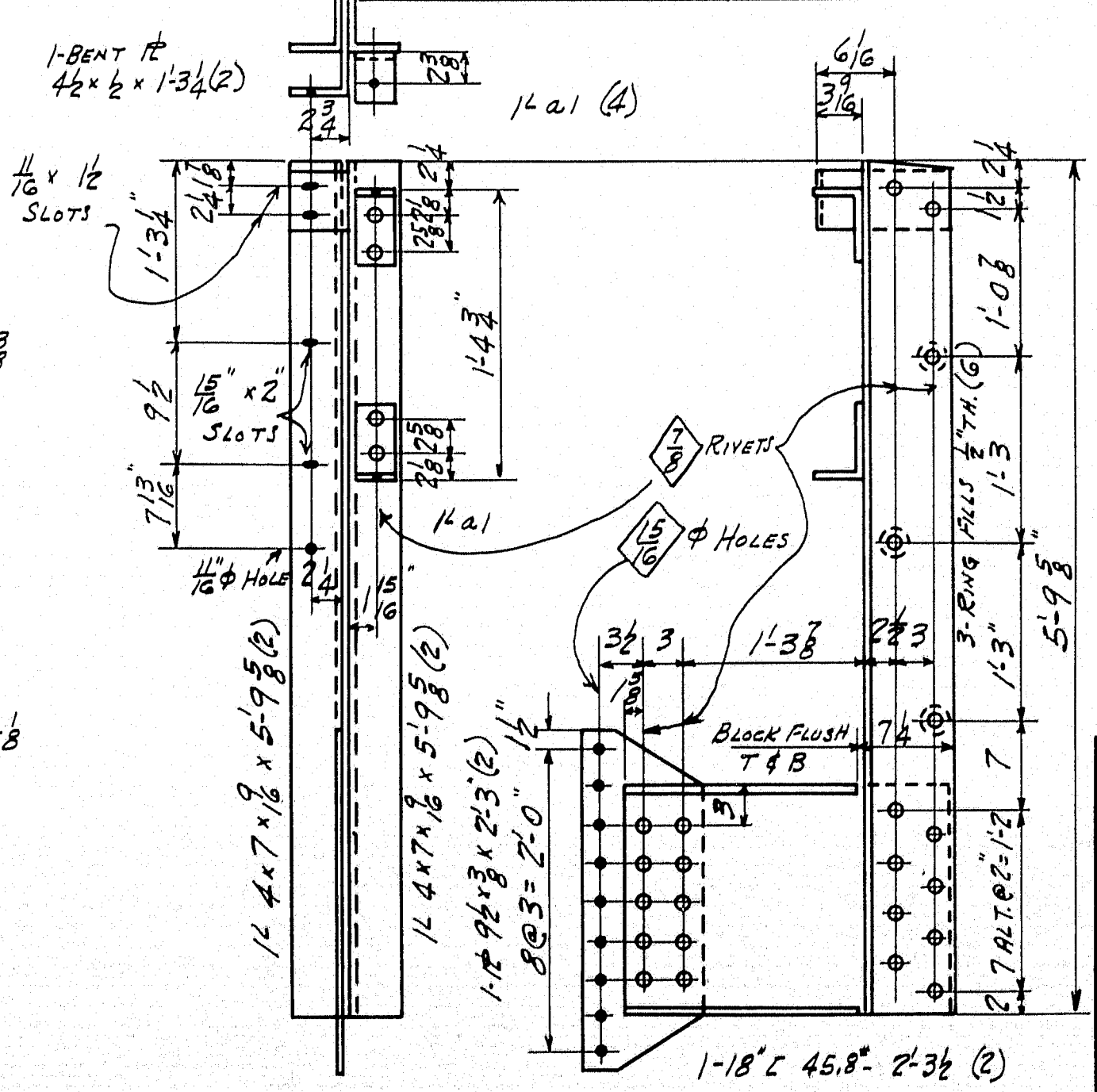
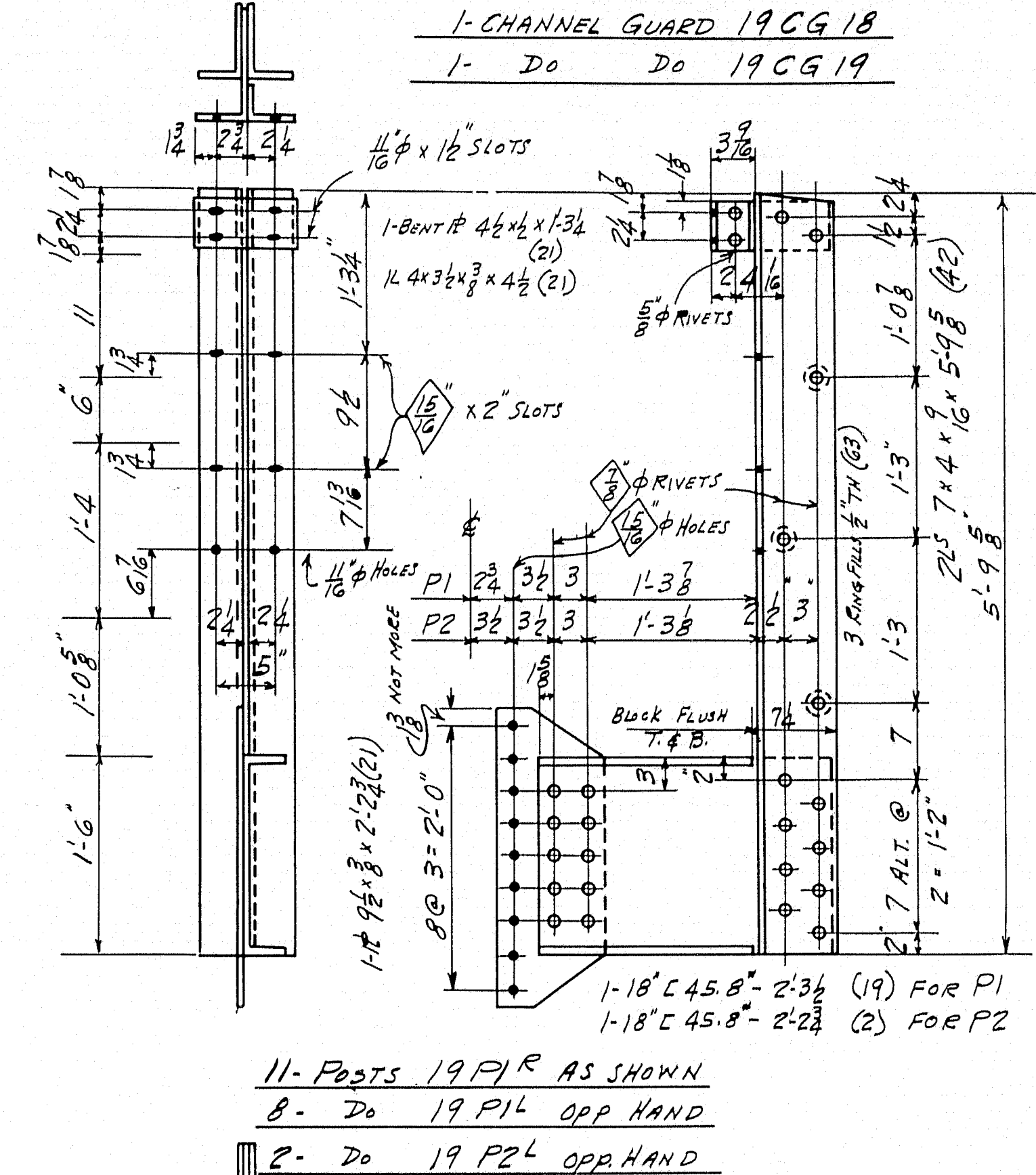
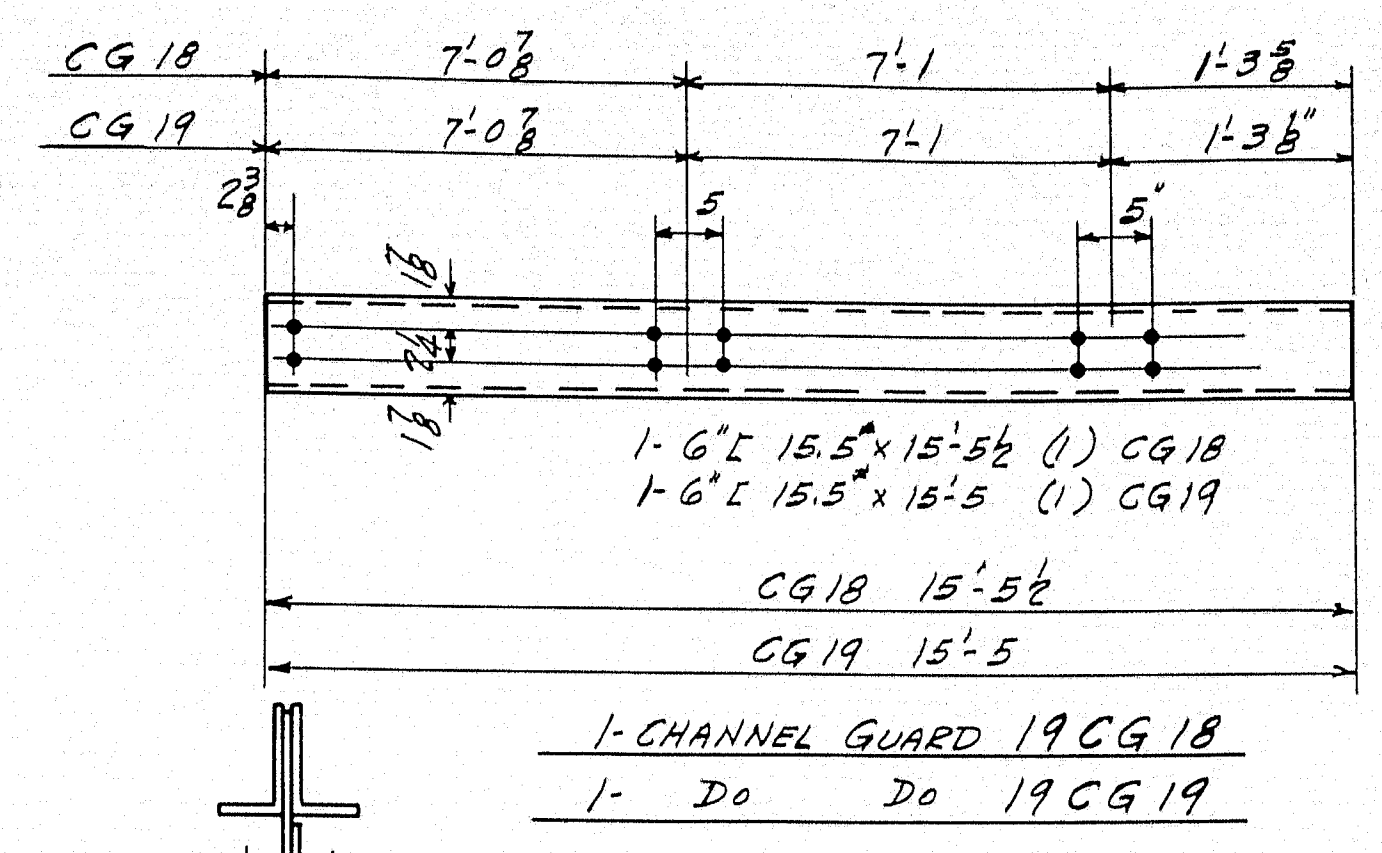
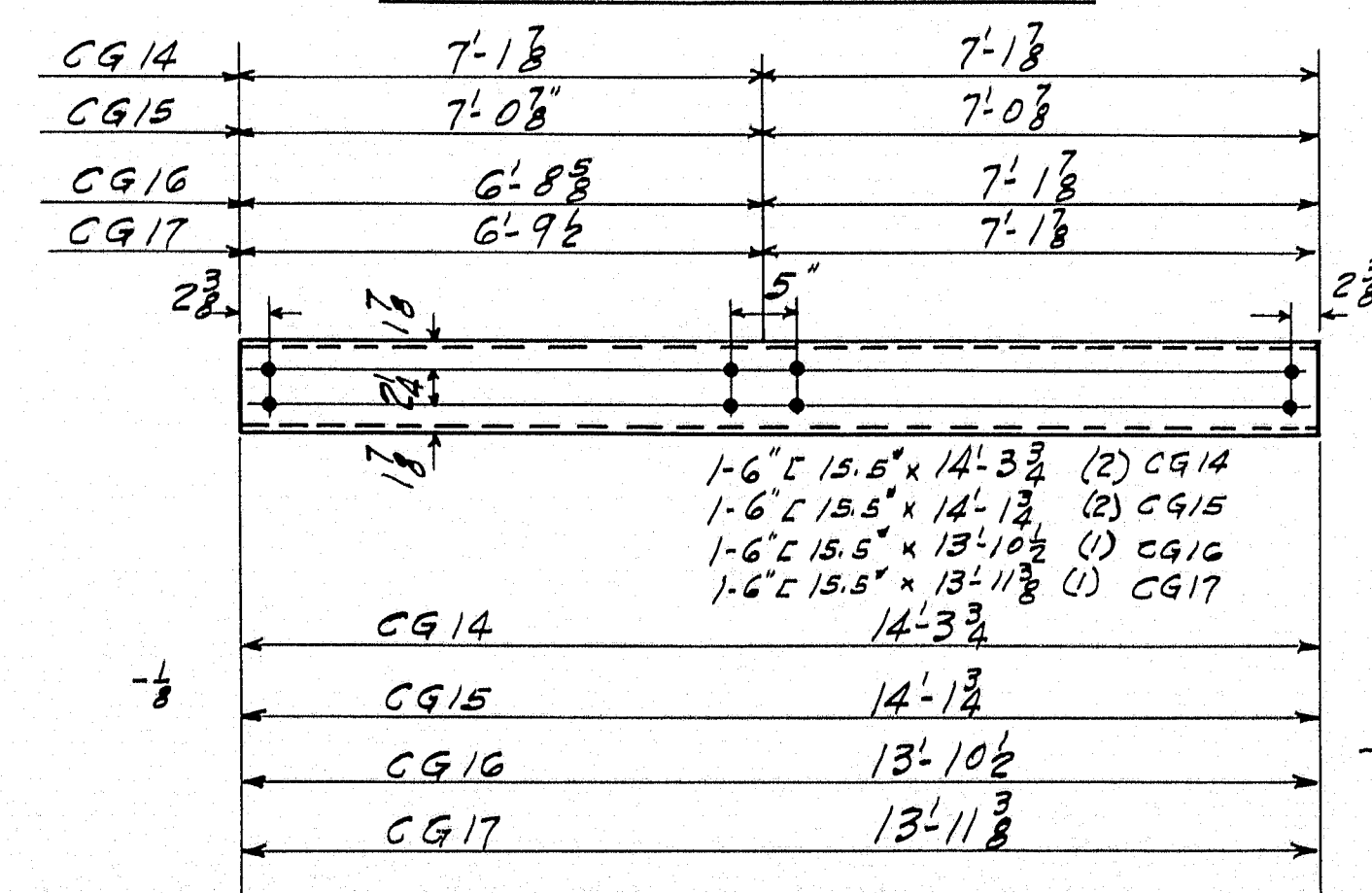
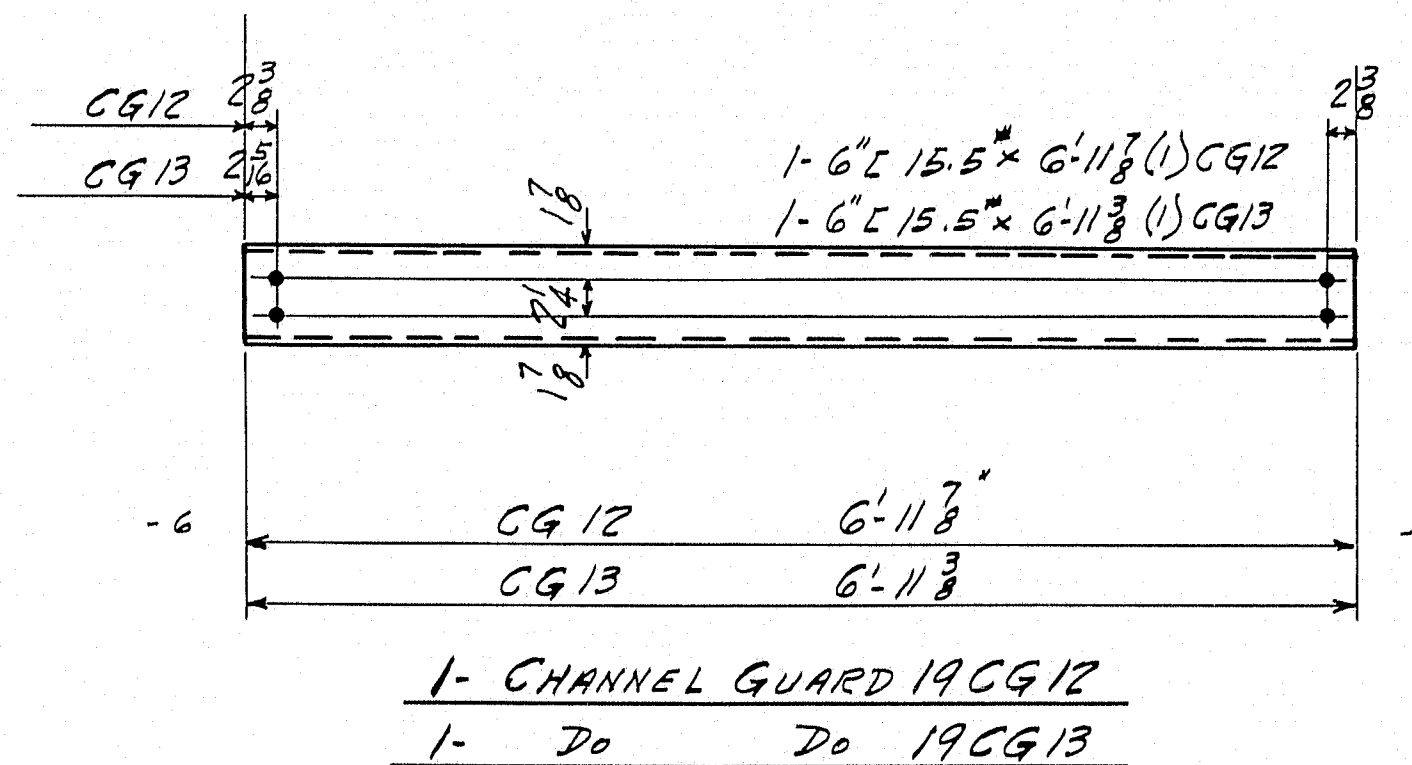
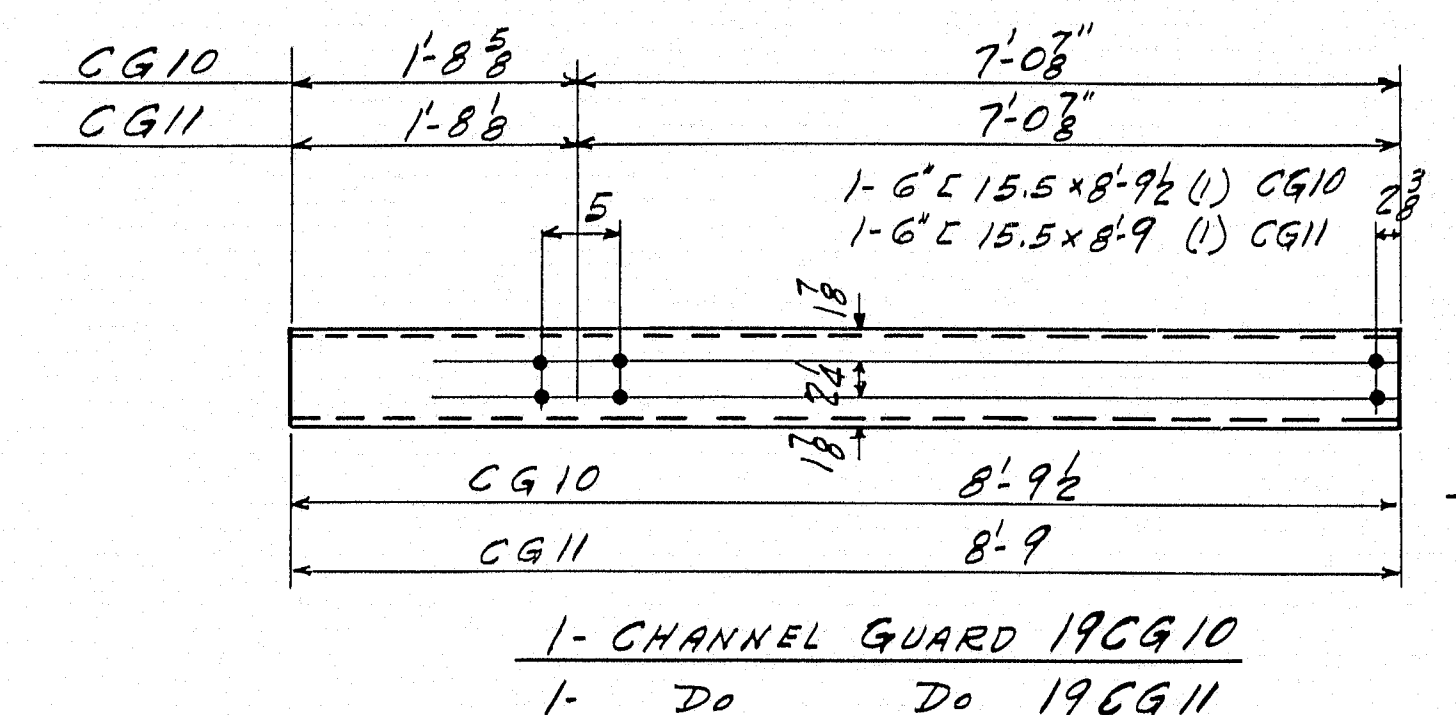
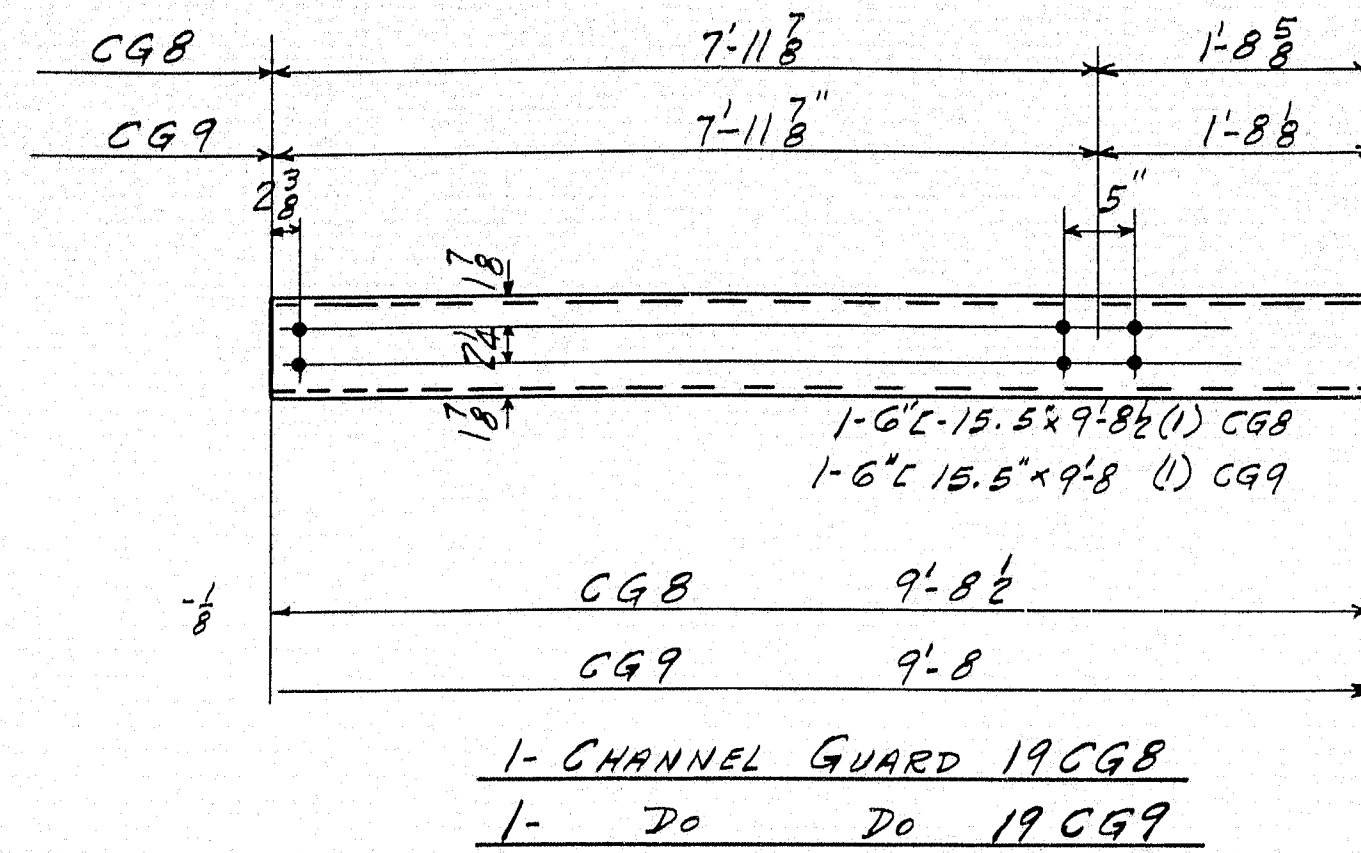
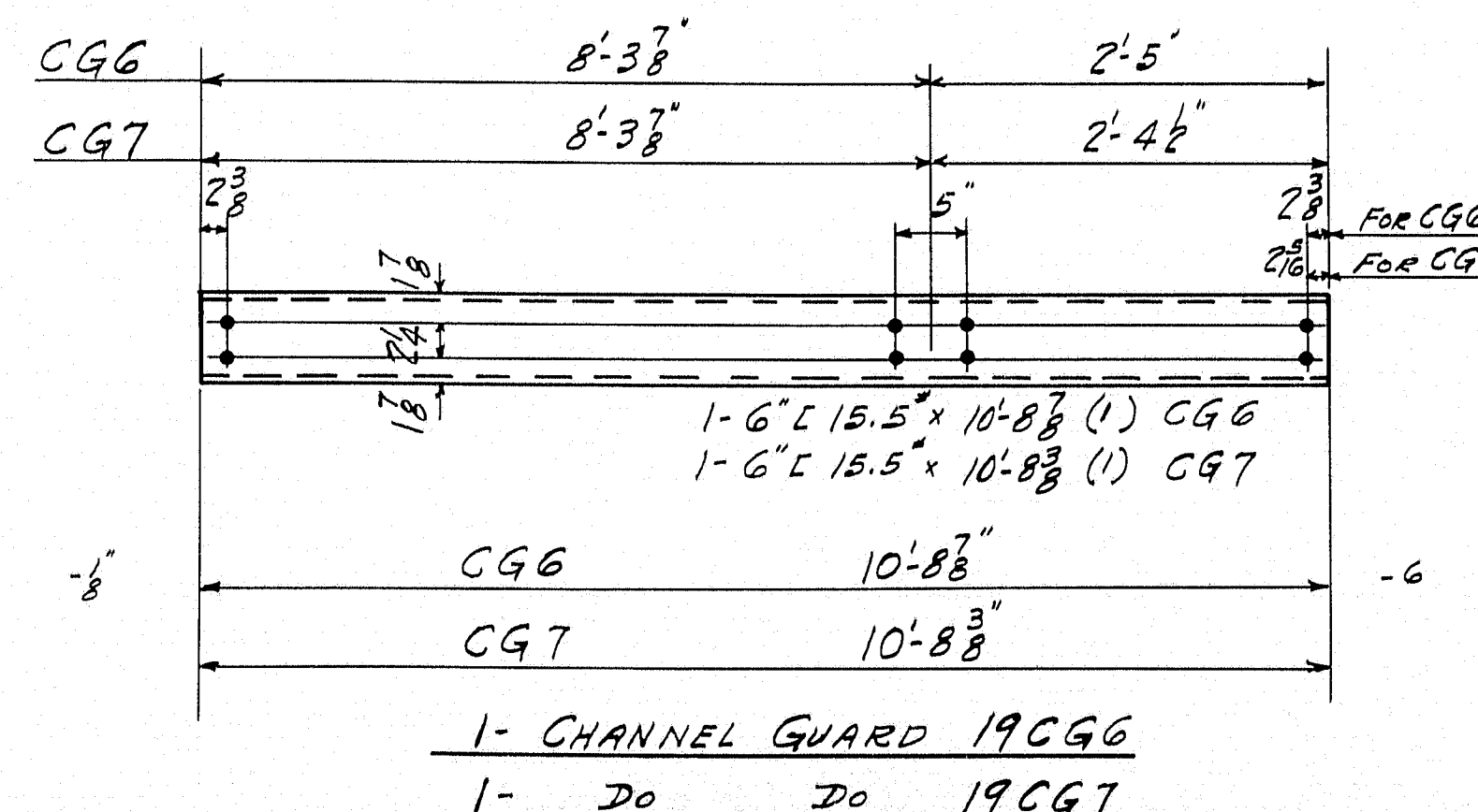
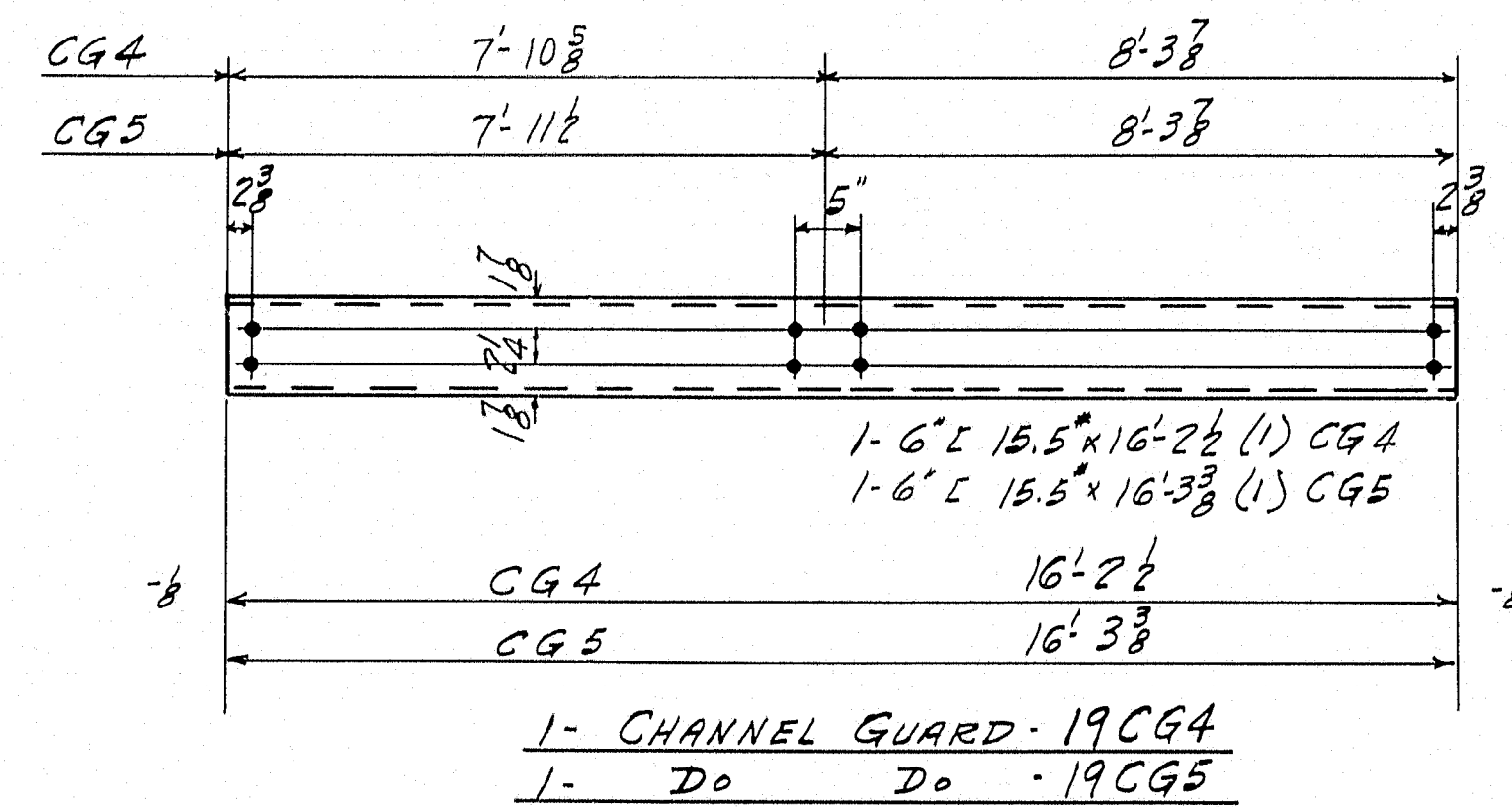
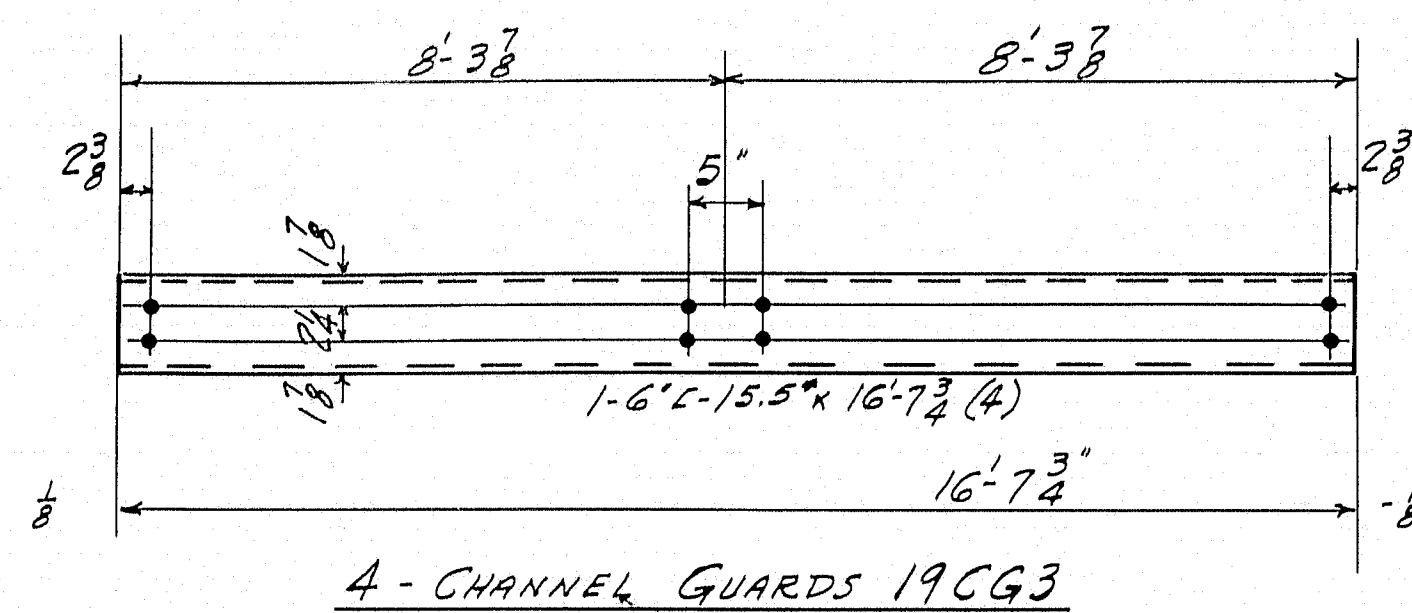
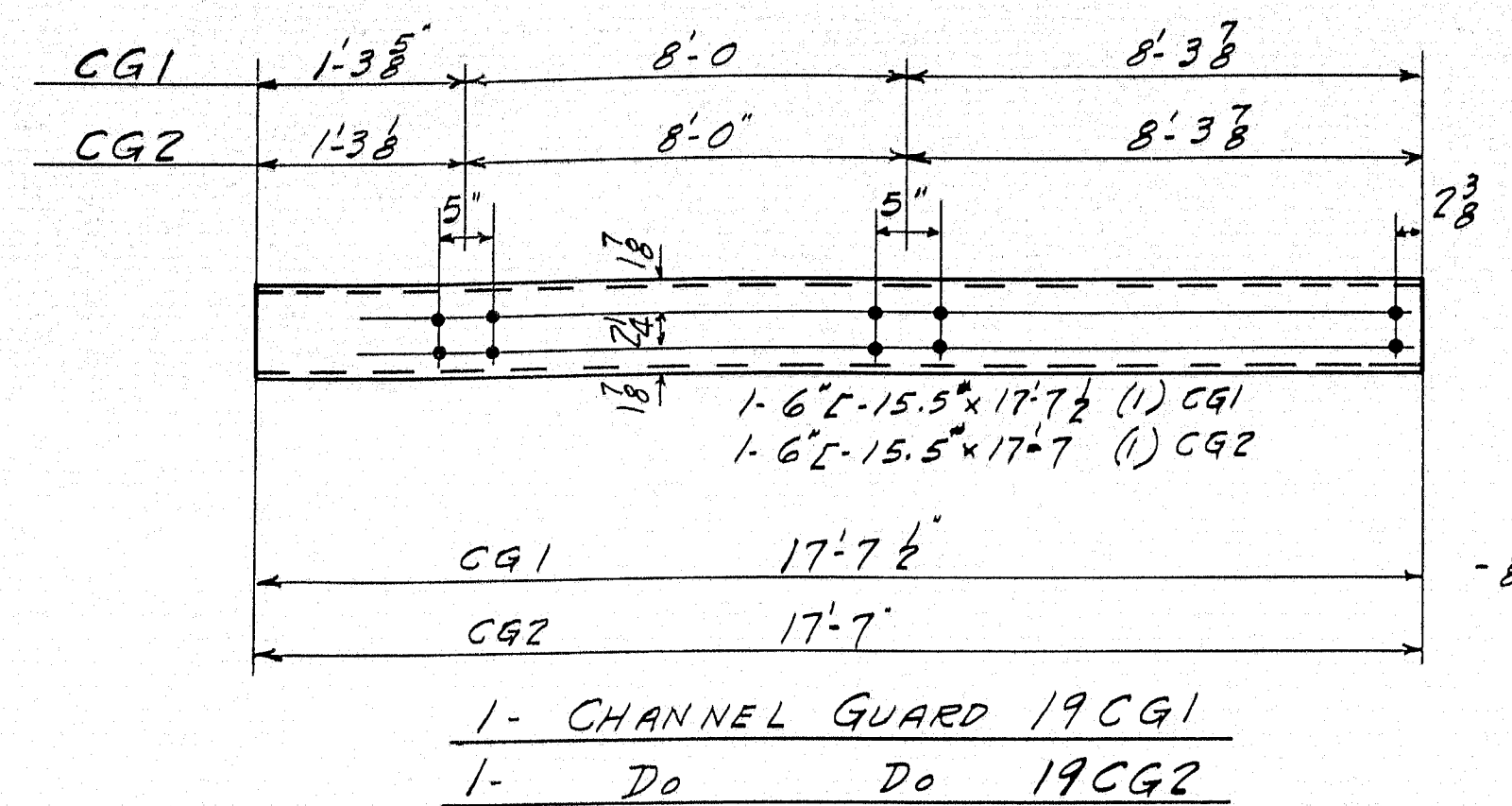
CONTRACT No. 3337 SHEET No. 16

NOTES:
NO REAMING.
CONTACT SURFACES SHOP OR FIELD
NOT PAINTED.

STATE OF MAINE
SOUTHPORT BRIDGE
OVER
TOWN SEND CUT
BETWEEN THE TOWNS OF
SOUTHPORT + BOOTHBAY HARBOR
LINCOLN COUNTY
P.W.A. PROJECT NO MAINE 1120F



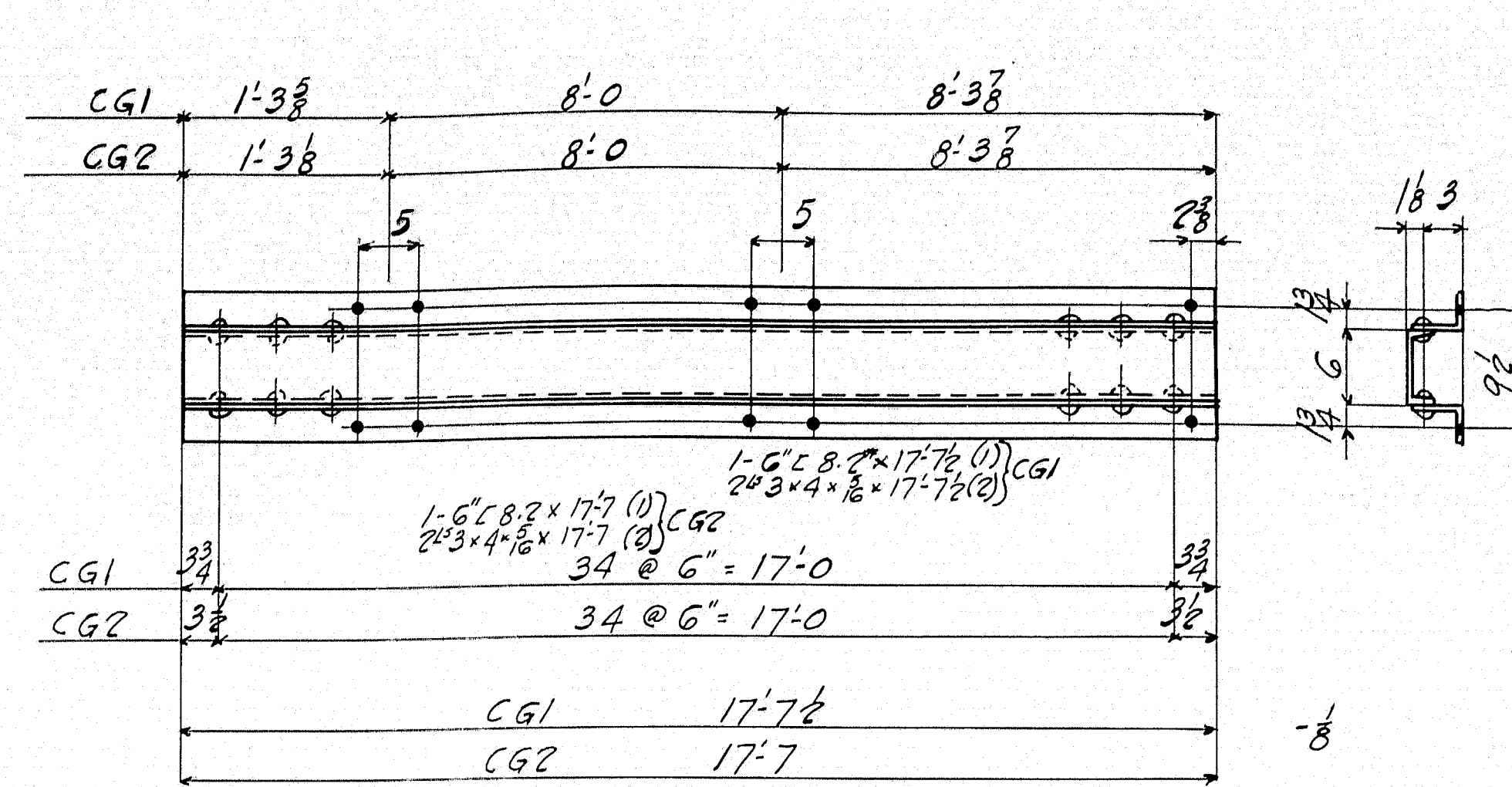




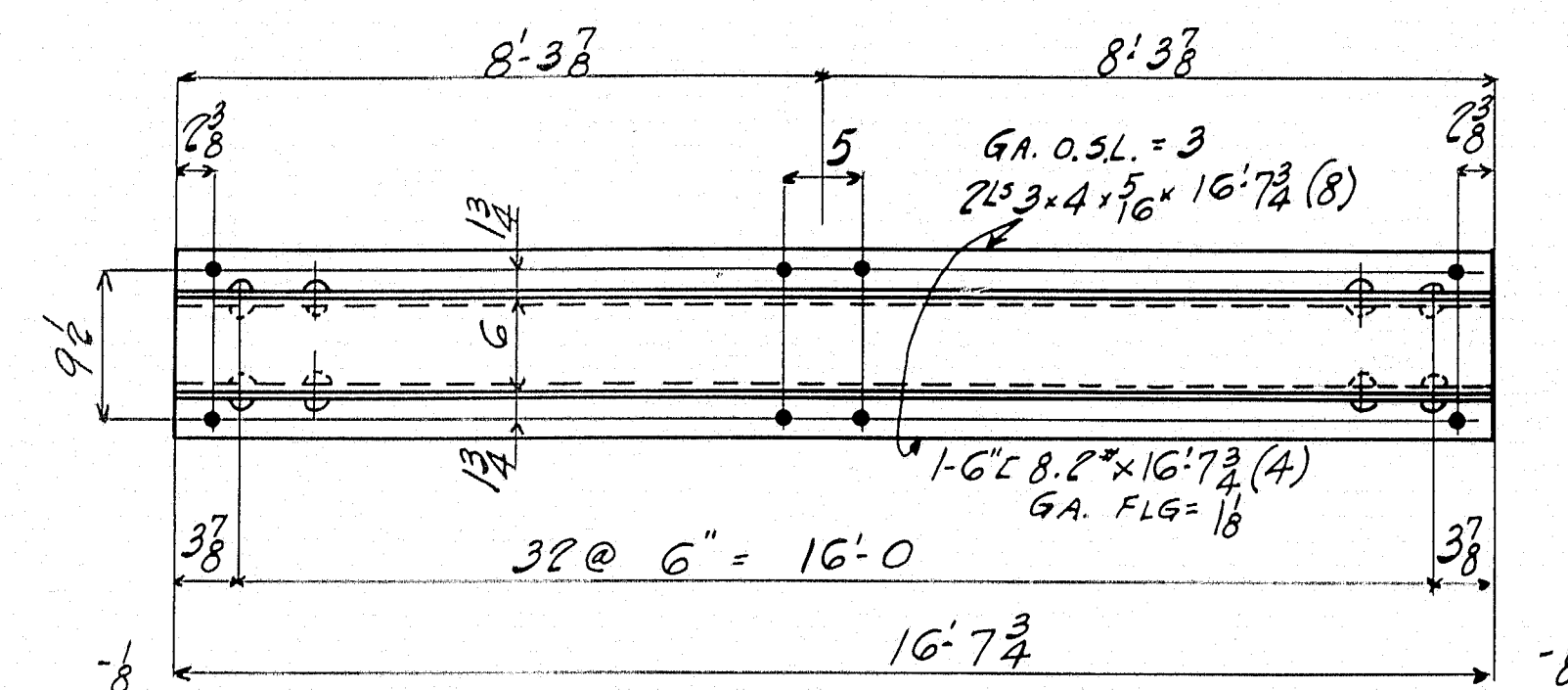
NOTE:
CONTACT SURFACES SHALL NOT
BE PAINTED IN SHOP OR FIELD

STATE OF MAINE
SOUTHPORT BRIDGE
OVER
TOWNSEND GUT
BETWEEN THE TOWNS OF
SOUTHPORT AND BOOTHBAY HARBOR
LINCOLN COUNTY
PWA PROJECT NO. MAINE 1120-F

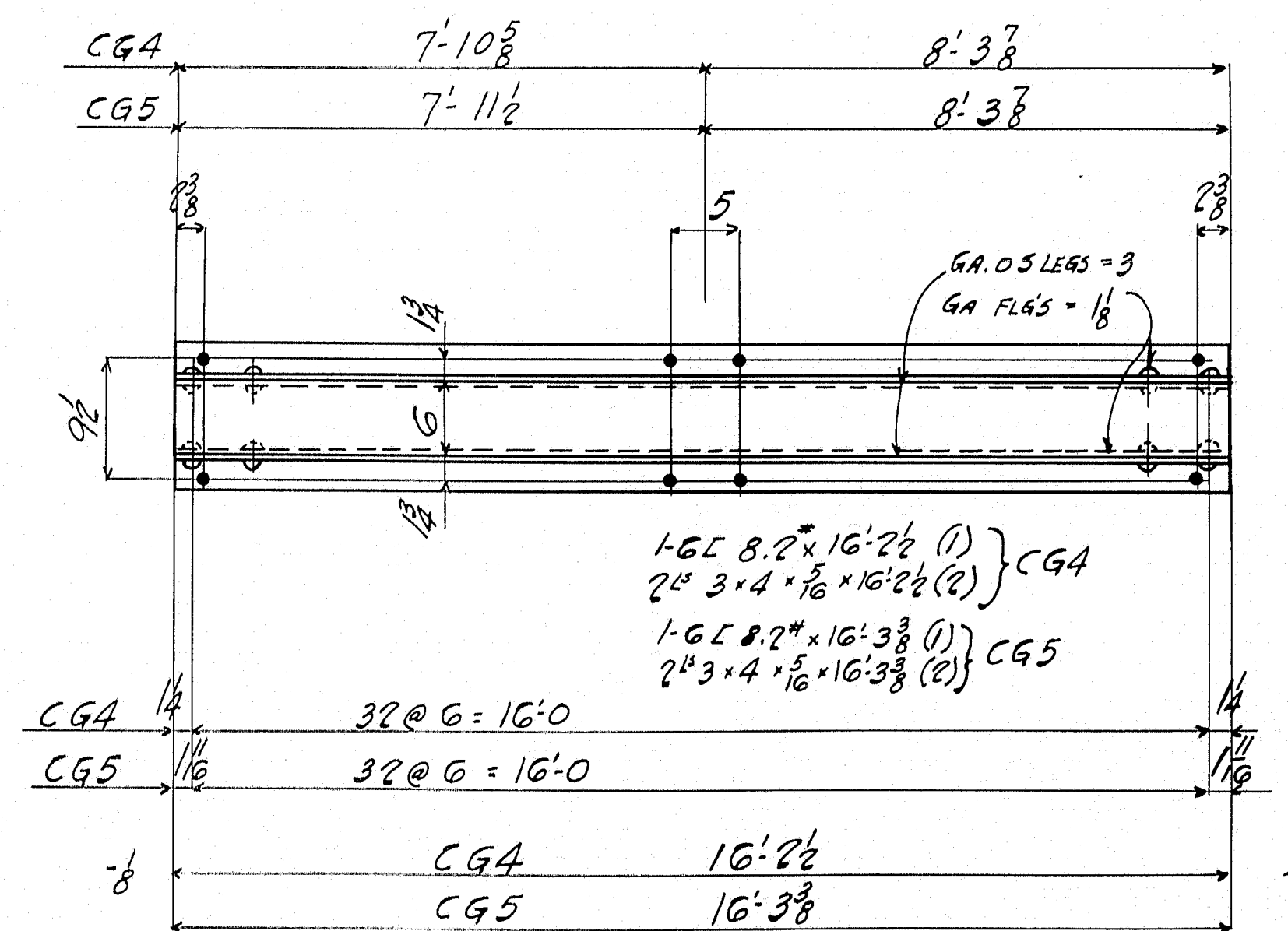
INSPECTION		SHOP RIVETS		WEIGHT	
P.T.L.					
RIVETS AS NOTED OPEN HOLES 1/2" UNLESS NOTED					
LACKAWANNA STEEL CONSTRUCTION CORP'N BUFFALO, N. Y.					
STRUCTURE SOUTHPORT BRIDGE					
FOR STATE OF MAINE					
DETAILS OF GUARDRAILS & POSTS FOR APPROXIMATE					
SPECIFICATIONS MAINE STEEL HIGHWAY BRIDGES 1937					
SHOP PAINT: L.C.T. RED LEAD PER SPEC'S SEE NOTE					
FIELD PAINT: T.O.U.H. COAT ONLY (SAME AS SHOP)					
DRAWN BY		DATE		CHECKED BY	
DEKORER		2-11-39		MARTIN	
NO.		DATE		BY	
1					
2					
3					
4					
5					
CONTRACT NO. 3337 SHEET NO. 19					



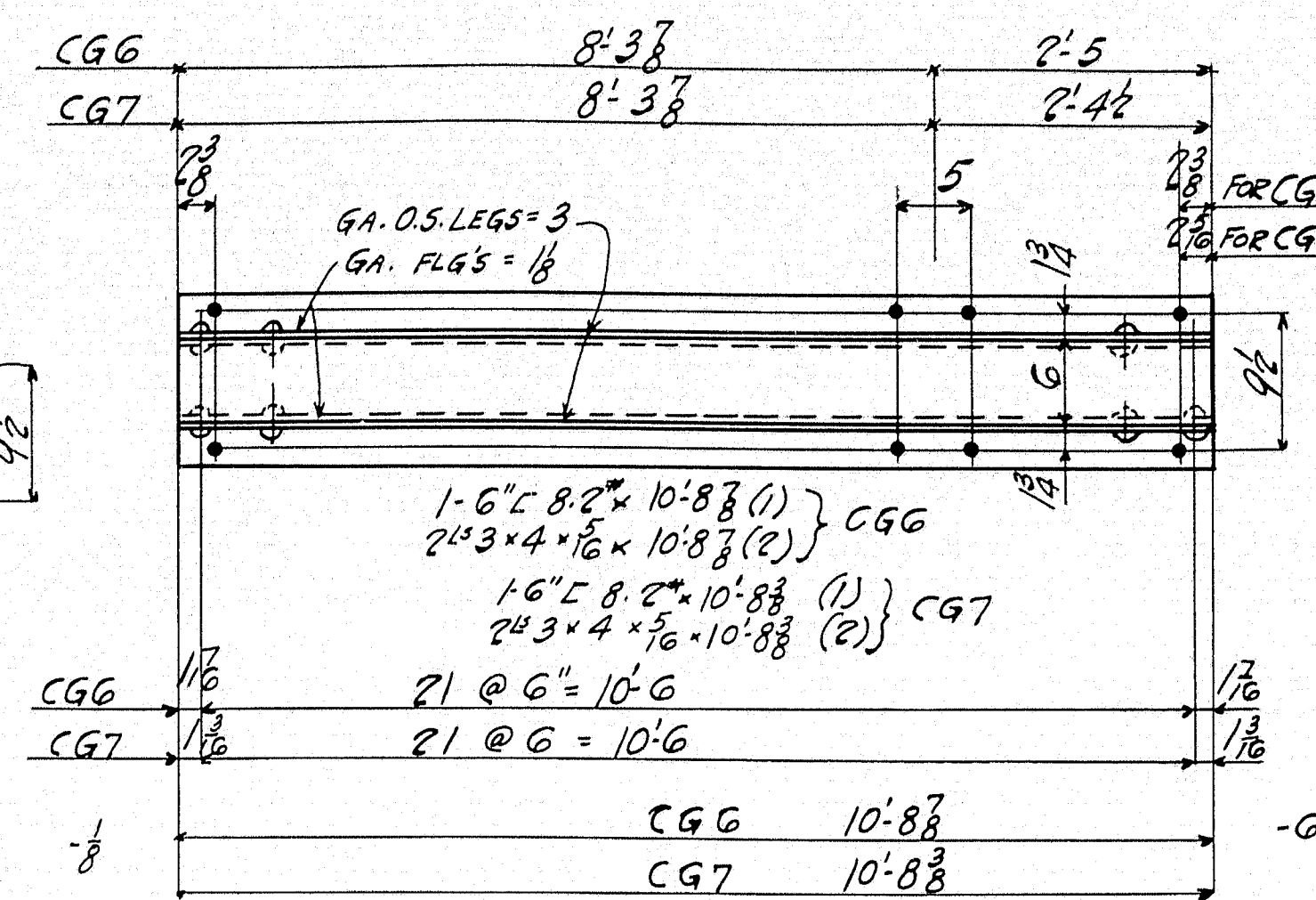
1- CHANNEL GUARD 20 CG1
1- CHANNEL GUARD 20 CG2



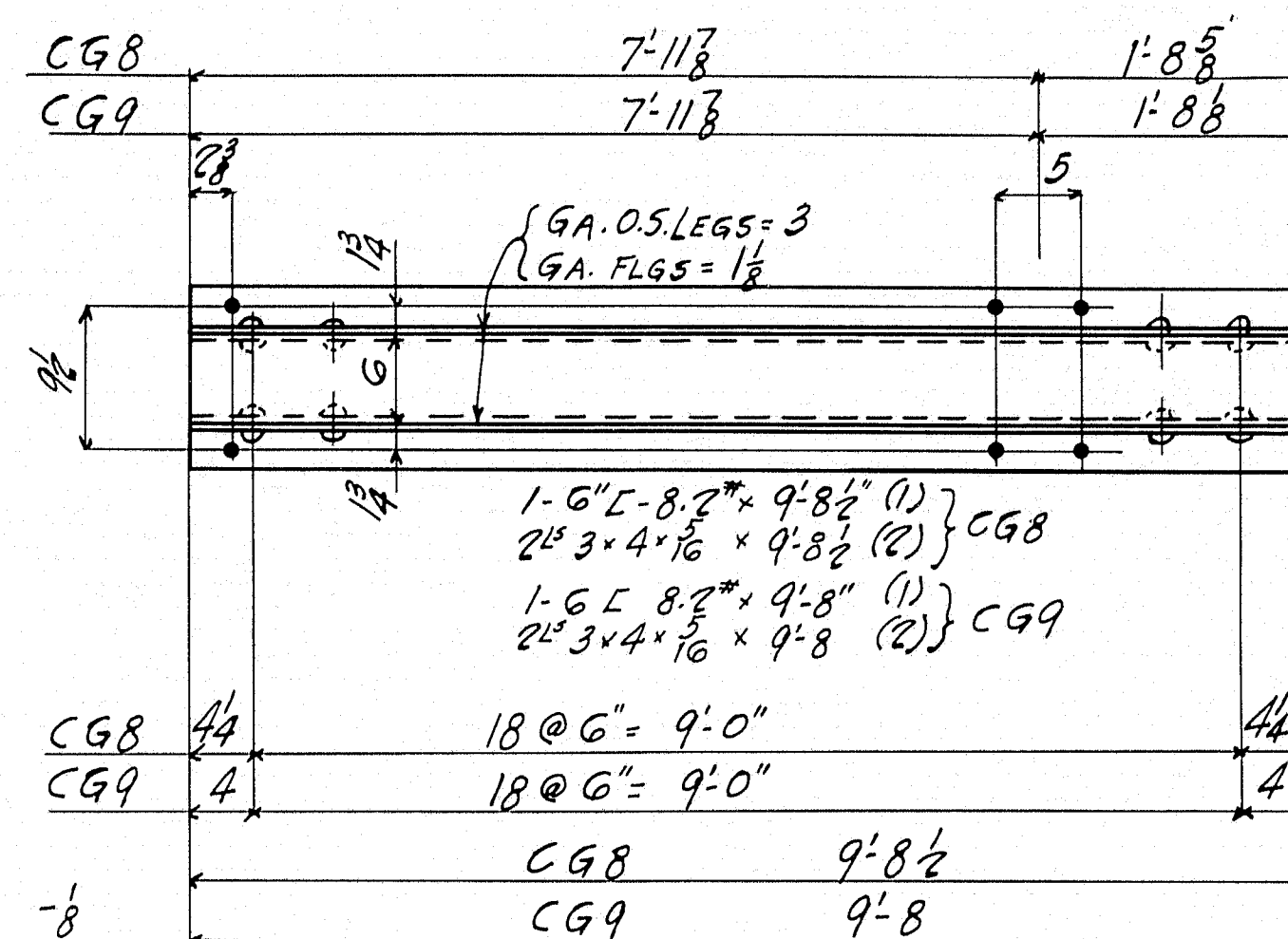
4- CHANNEL GUARDS 20 CG3



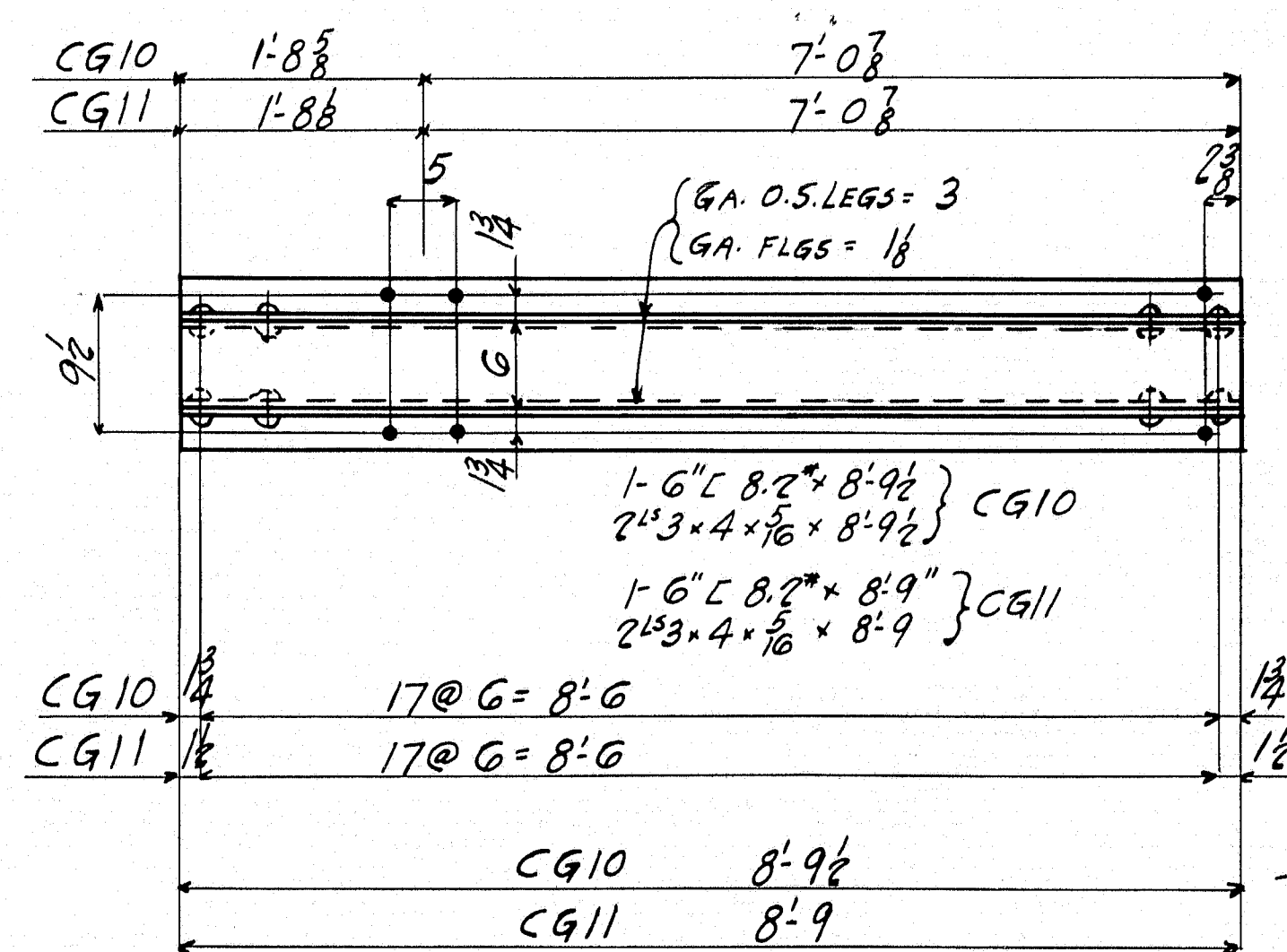
1- CHANNEL GUARD 20 CG4
1- CHANNEL GUARD 20 CG5



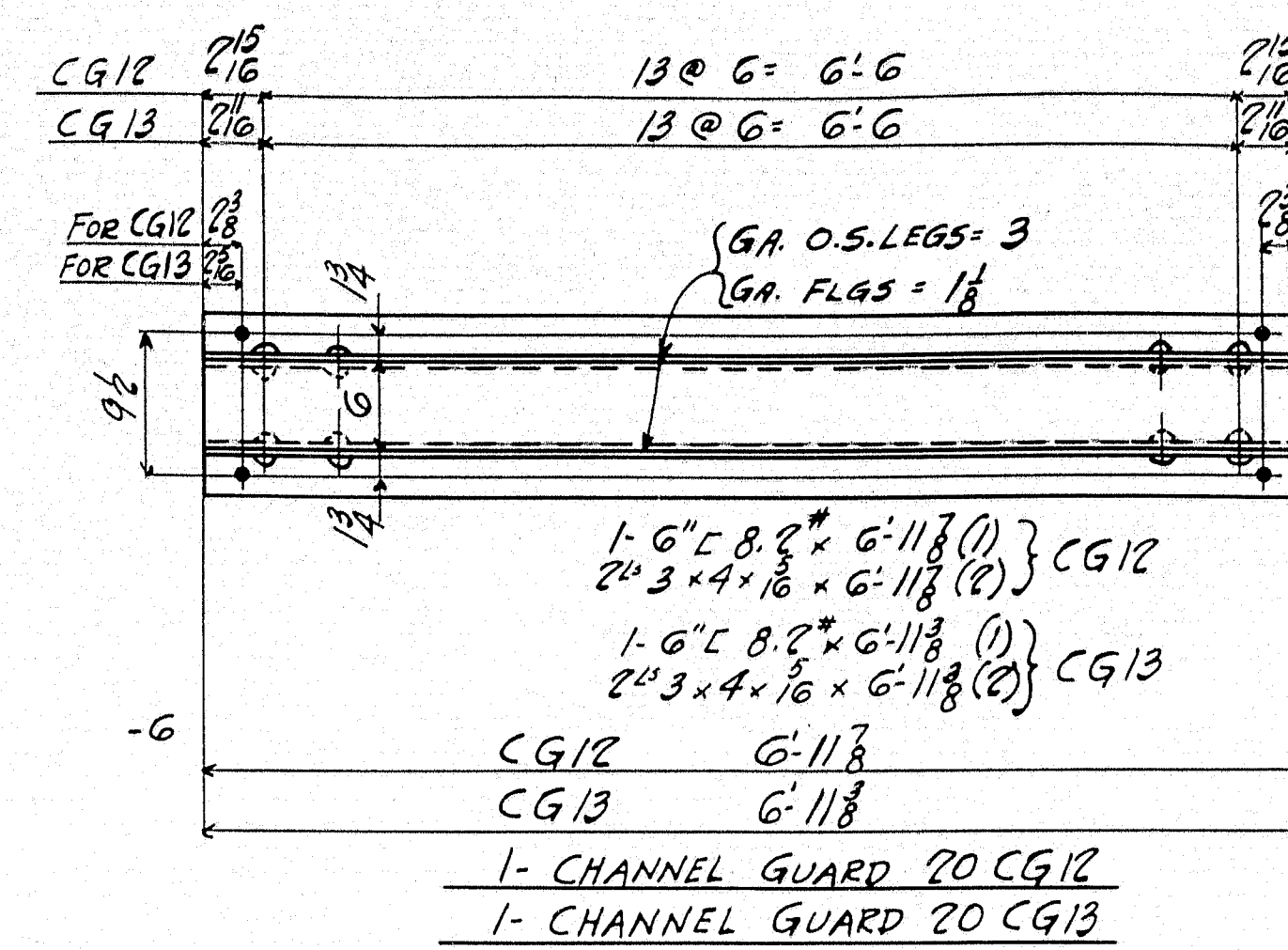
1- CHANNEL GUARD 20 CG6
1- CHANNEL GUARD 20 CG7



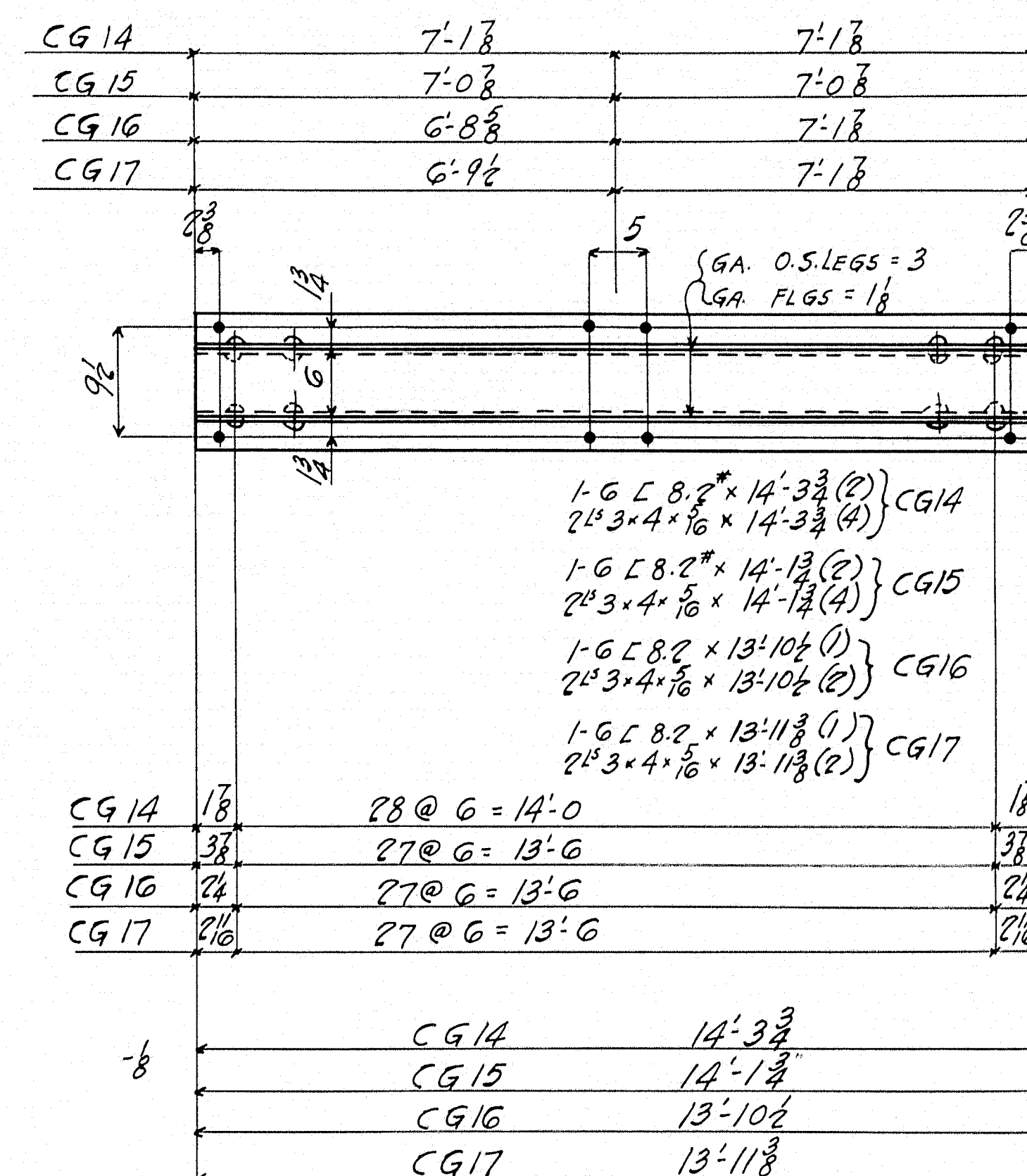
1- CHANNEL GUARD 20 CG8
1- CHANNEL GUARD 20 CG9



1- CHANNEL GUARD 20 CG10
1- CHANNEL GUARD 20 CG11



1- CHANNEL GUARD 20 CG12
1- CHANNEL GUARD 20 CG13

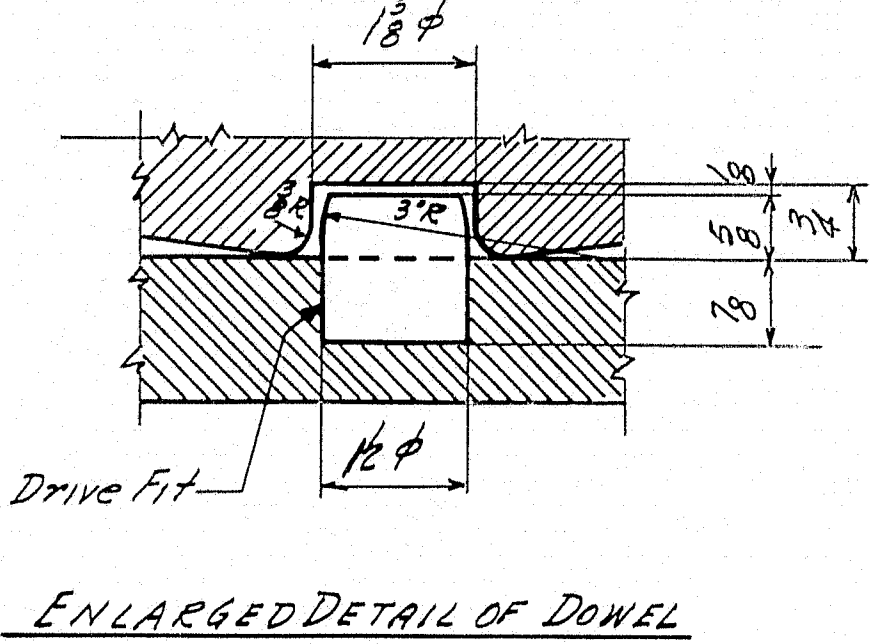
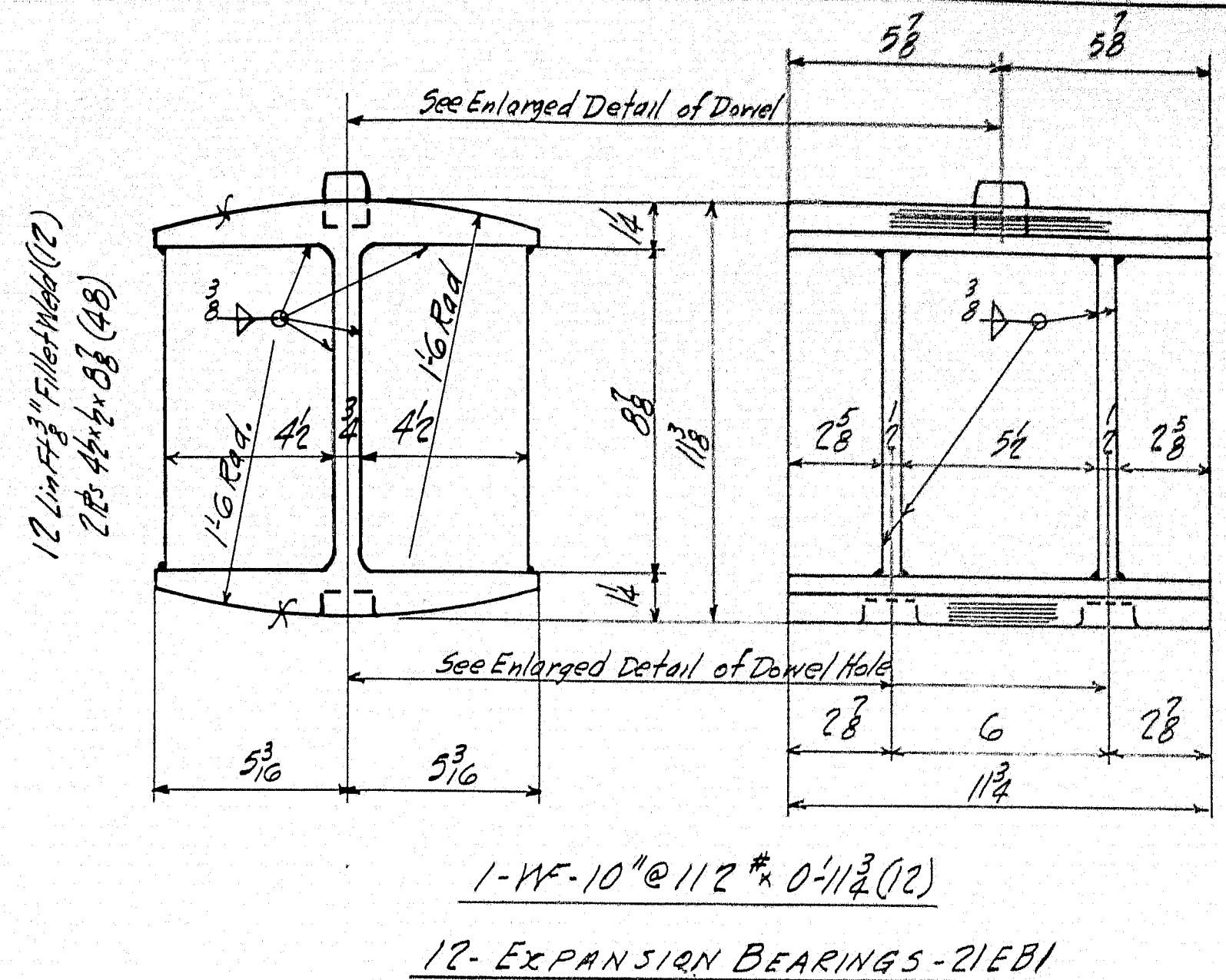
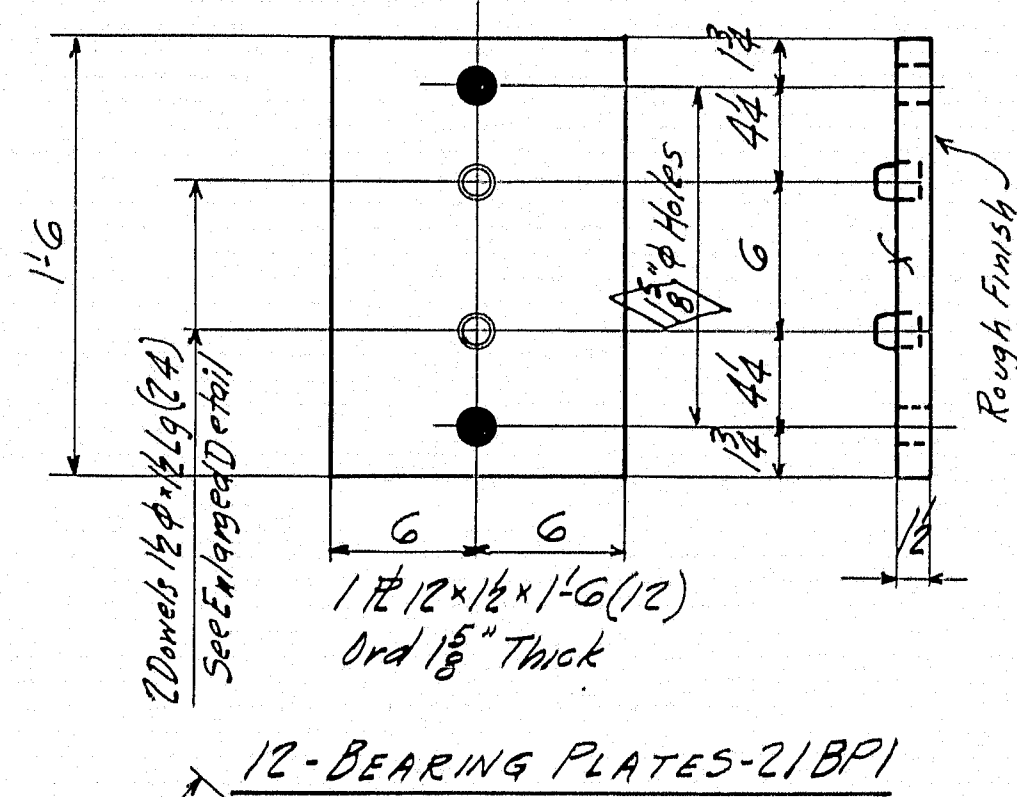
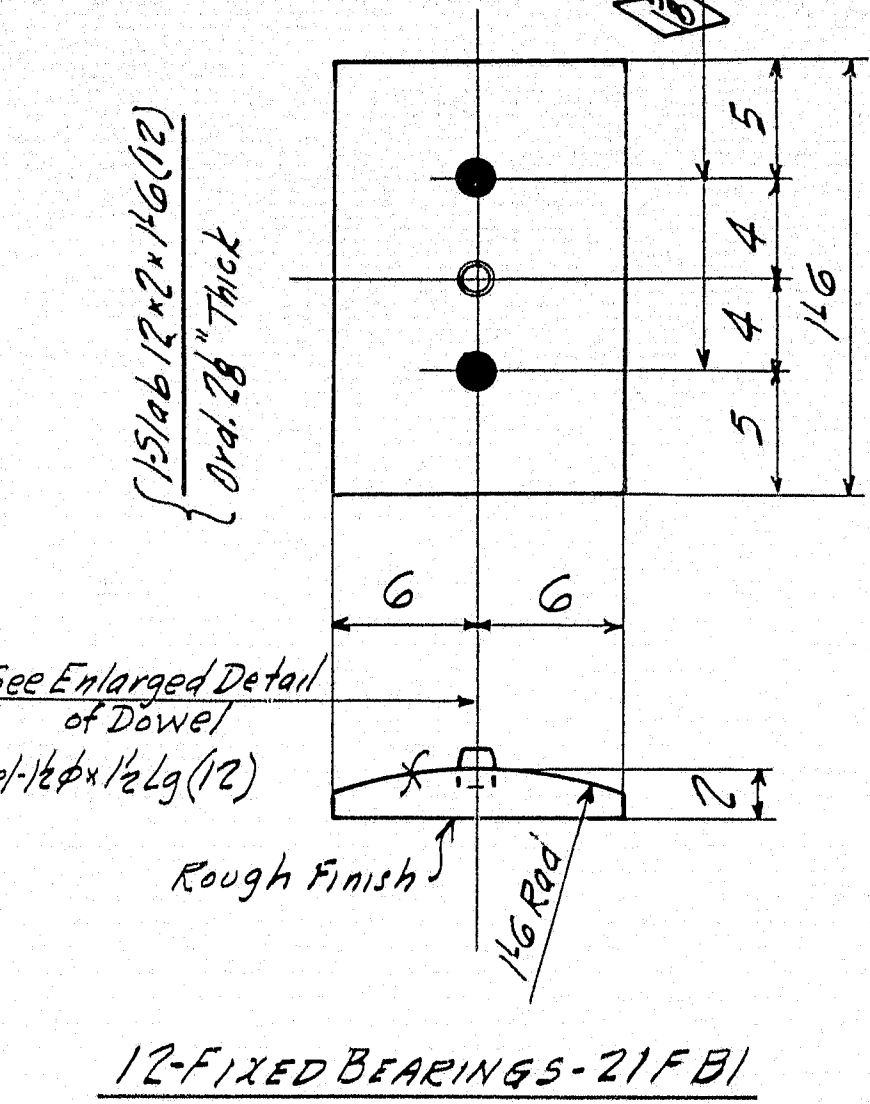
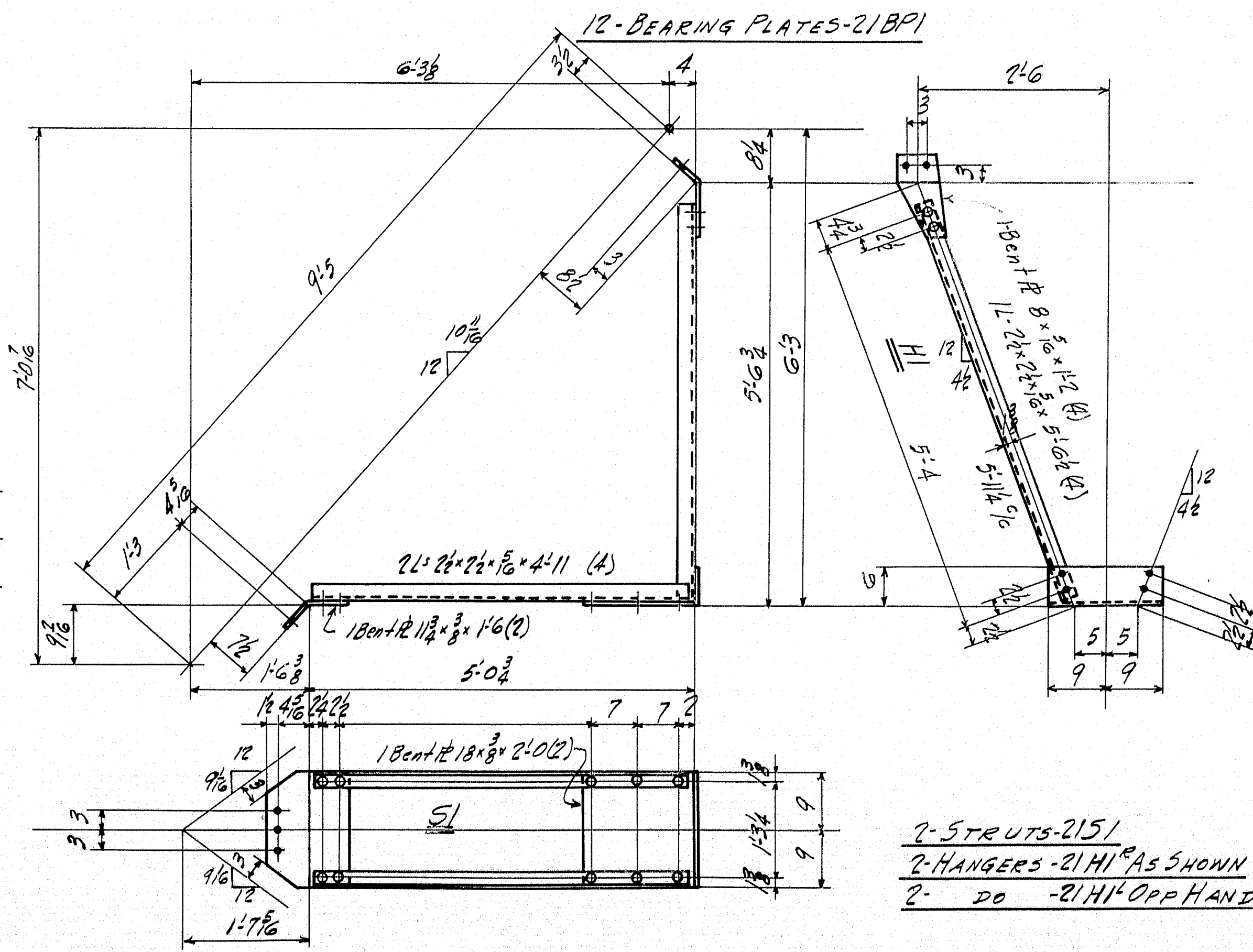
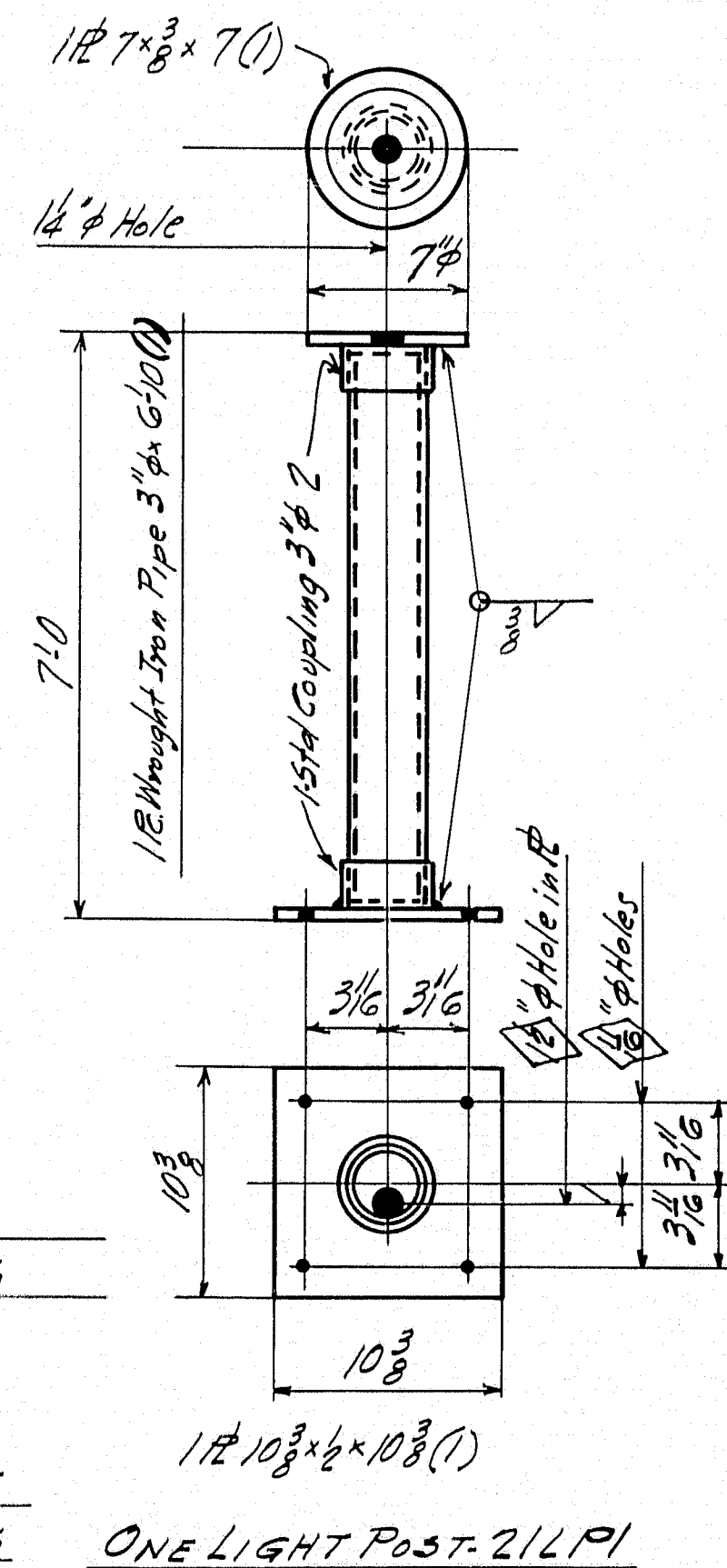
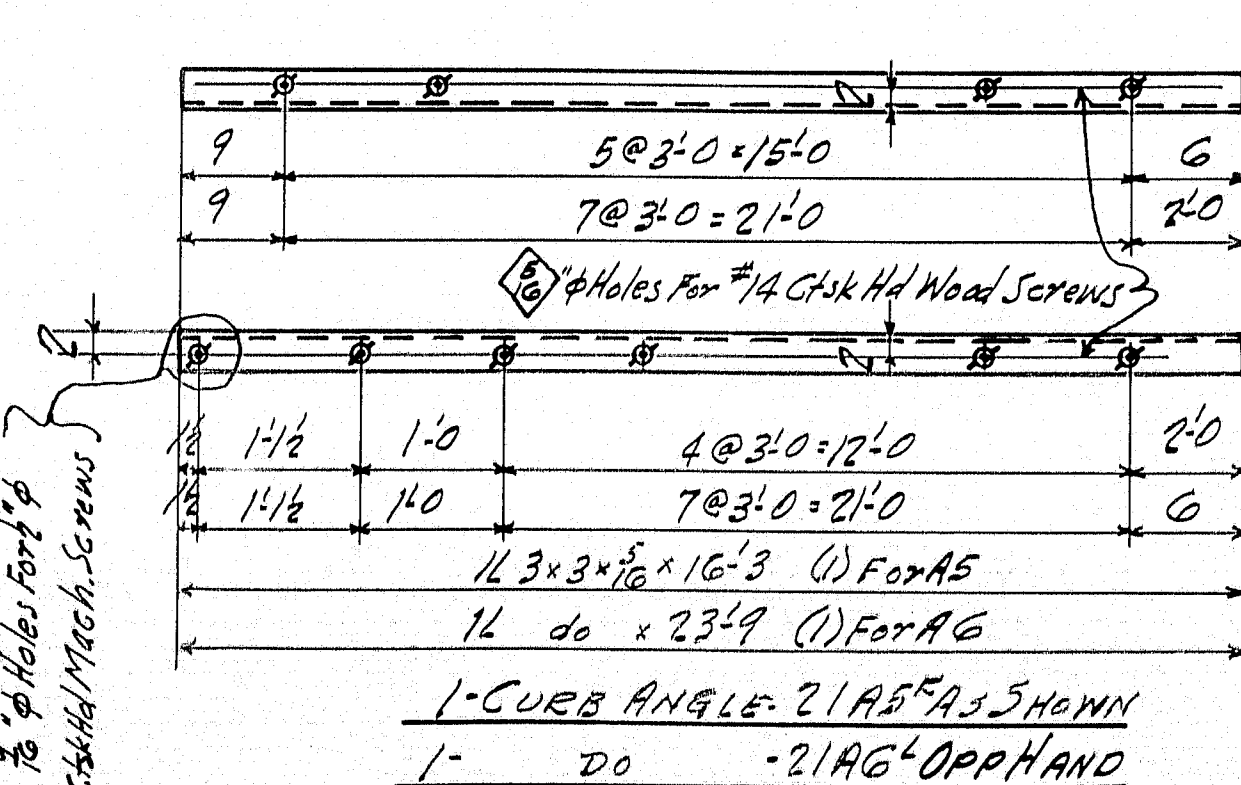
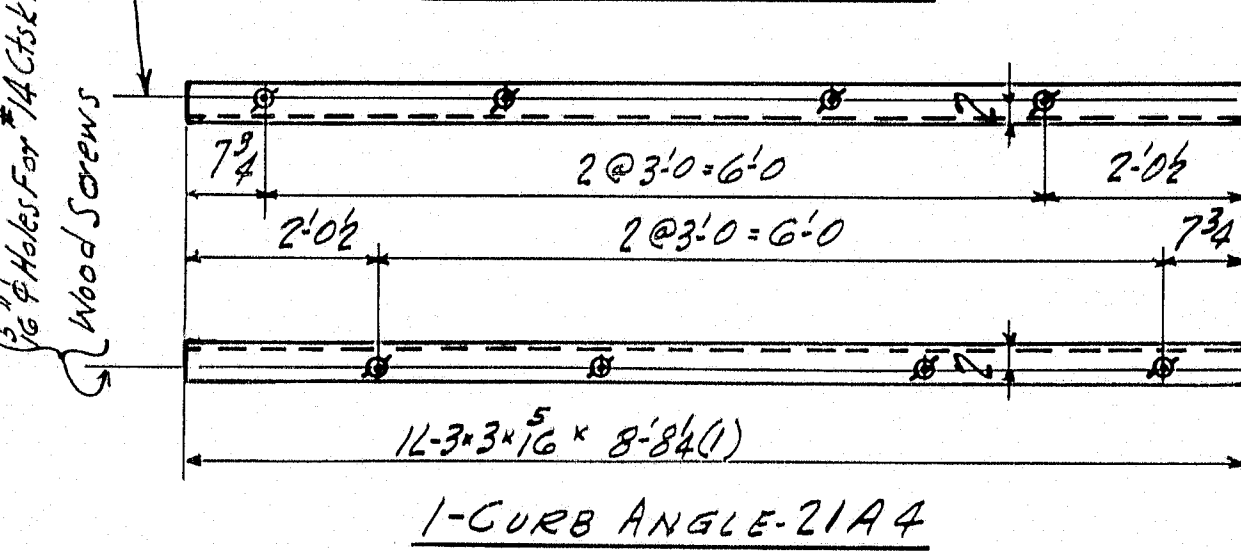
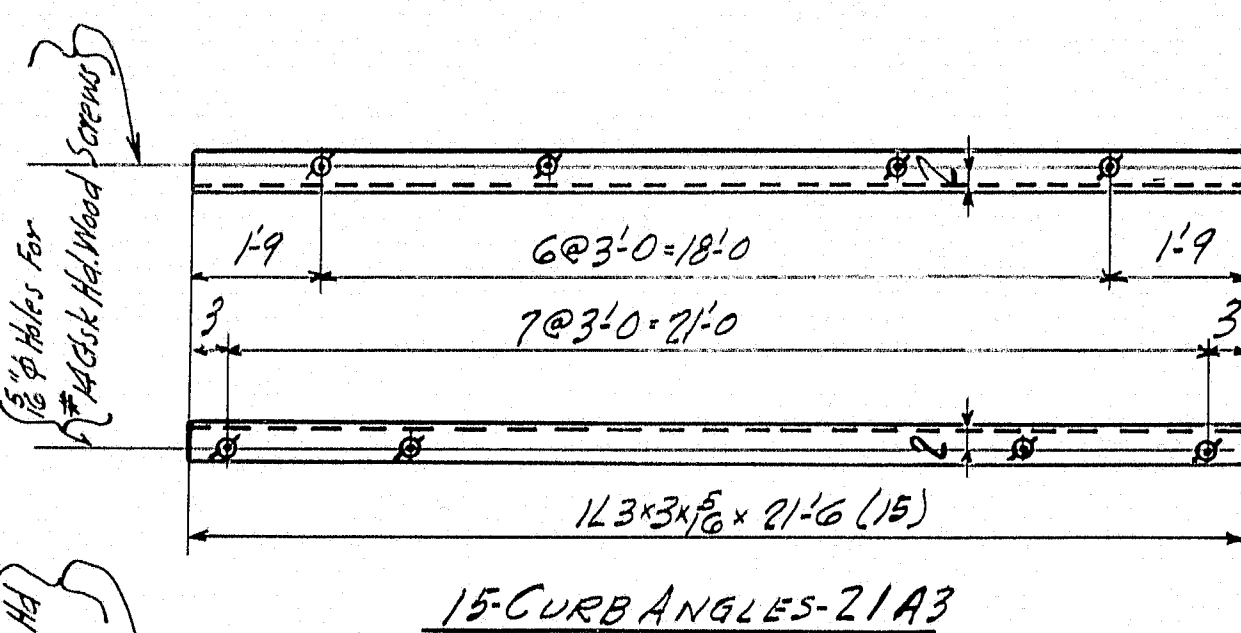
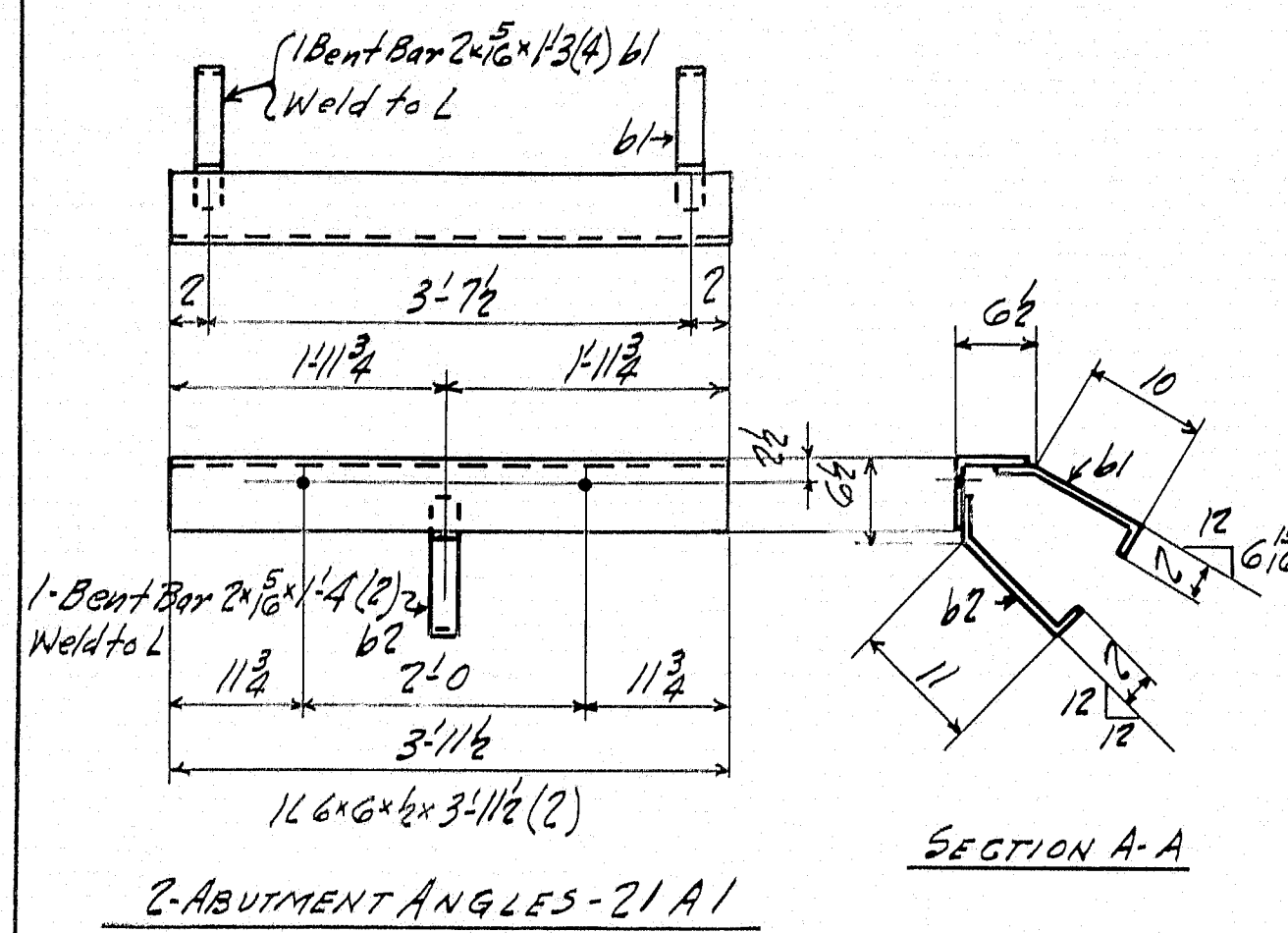
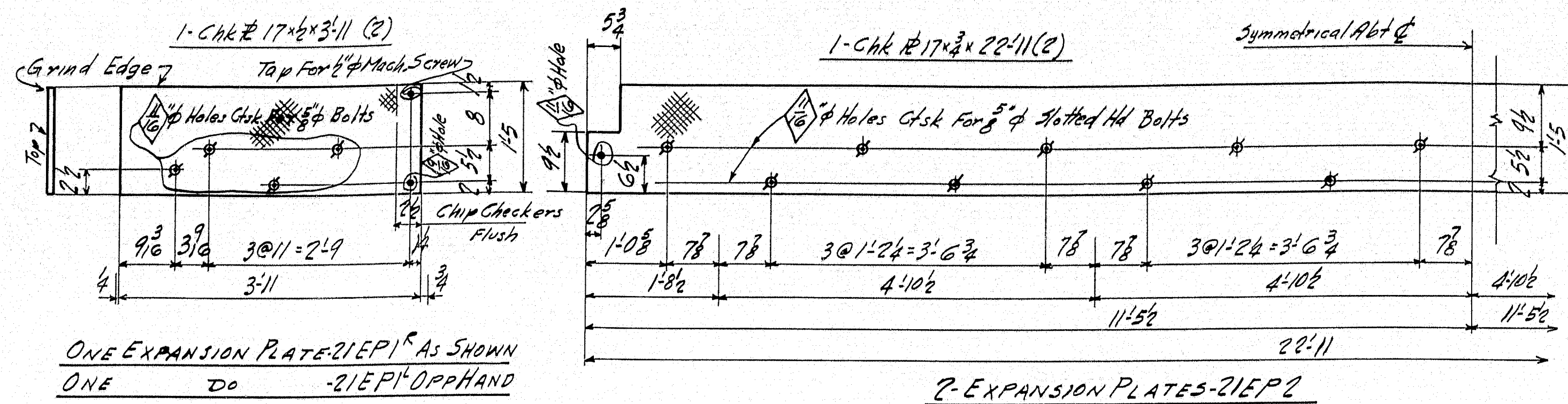


2- CHANNEL GUARDS 20 CG14
2- CHANNEL GUARDS 20 CG15
1- CHANNEL GUARD 20 CG16
1- CHANNEL GUARD 20 CG17

NOTE
CONTACT SURFACES SHALL NOT
BE PAINTED IN SHOP OR FIELD

STATE OF MAINE
SOUTHPORT BRIDGE
OVER
TOWNSEND GUT
BETWEEN THE TOWNS OF
SOUTHPORT AND BOOTHBAY HARBOR
LINCOLN COUNTY
P.W.A. PROJECT NO. MAINE 1120-F

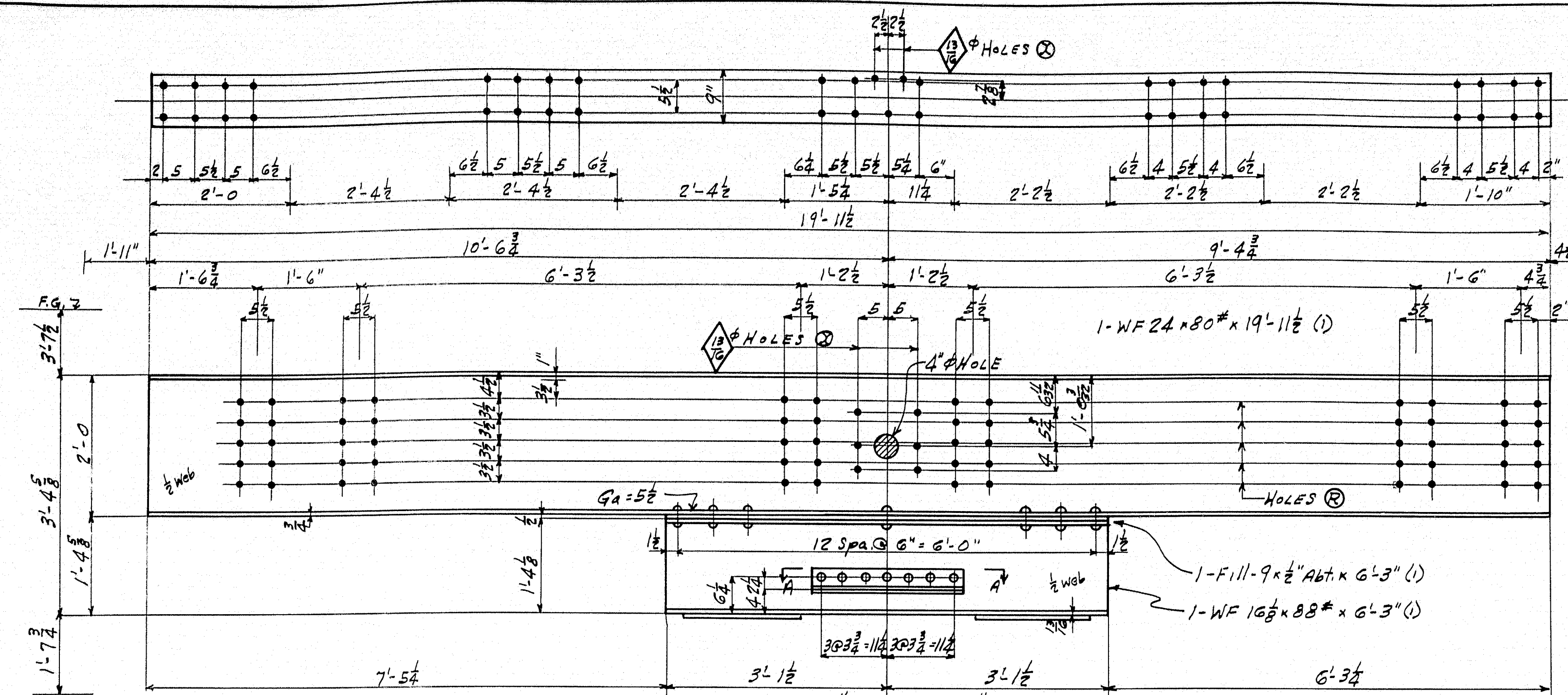
INSPECTION	SHOP RIVETS	WEIGHT
P.T.L.		
RIVETS 5/8"	OPEN HOLES 15/16"	UNLESS NOTED
LACKAWANNA STEEL CONSTRUCTION CORP'N BUFFALO, N. Y.		
STRUCTURE SOUTHPORT BRIDGE		
FOR STATE OF MAINE		
DETAILS OF LOWER GUARD RAILS FOR APPROACHES		
SPECIFICATIONS MAINE STEEL HIGHWAY BRIDGE		
SHOP PAINT: CR. RED LEAD PER SPACS SEE MAINE		
FIELD PAINT: TOUCH-UP COAT ONLY (SAME AS SHOP)		
DRAWN BY	DATE	CHECKED BY
DEKRAMER	2/13/39	1/15/39
NO.	DATE	BY
1		
2		
3		
4		
5		
CONTRACT NO. 3337		SHEET NO. 20



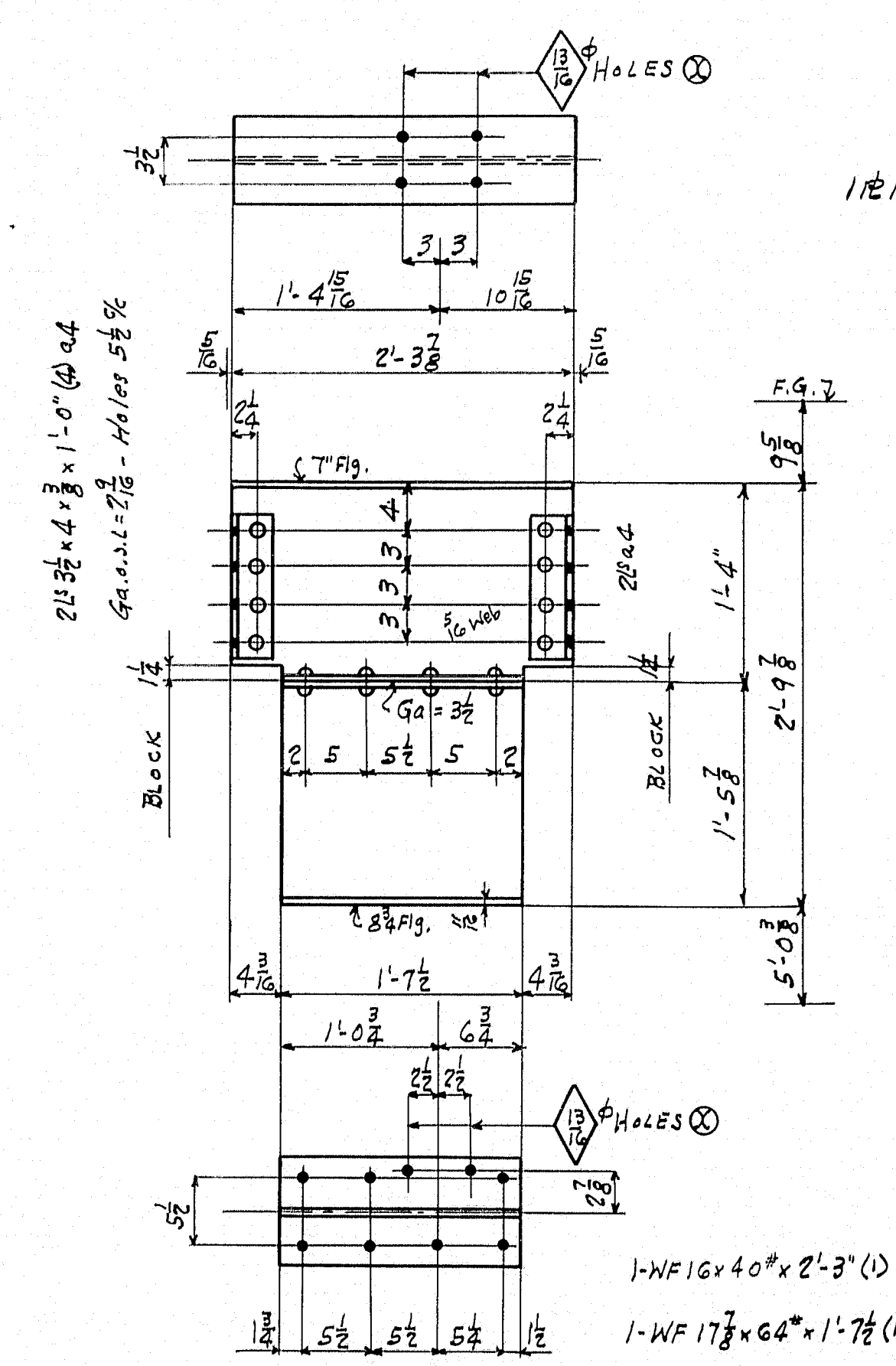
FIELD BOLTS
2-Ctsk Hd Cap Screws 1/2x3/4
36" " " Bolts 5/8x7 1/2
8" " " Bolts 5/8x16
260-#14 Ctsk Hd Wood Screws x2 1/2
44-Washers 2" dia x 1/2" Hole

INSPECTION		SHOP RIVETS		WEIGHT	
PTL					
RIVETS	2 1/2"	OPEN HOLES	1 1/2"	UNLESS NOTED	
LACKAWANNA STEEL CONSTRUCTION CORP BUFFALO, N. Y.					
STRUCTURE 178'0 SWING SPAN BRIDGE					
FOR STATE OF MAINE					
DETAILS OF BRIDGE SHOES EXP. RES. GUERRE ET.					
SPECIFICATIONS MAINE STEEL MANUFACTURING CO. 1927					
SHOP PAINT, GUNN HEAD, P. 100					
FIELD PAINT, GUNN HEAD, P. 100					
DRAWN BY	DATE	CHECKED BY	DATE	SQUAD FOREMAN	
D. SWANSON	7/27/39	R	2/27/41	Buck	
NO.	DATE	BY	DESCRIPTION		
1					
2					
3					
4					
5					
CONTRACT No. 3337 SHEET No. 21					

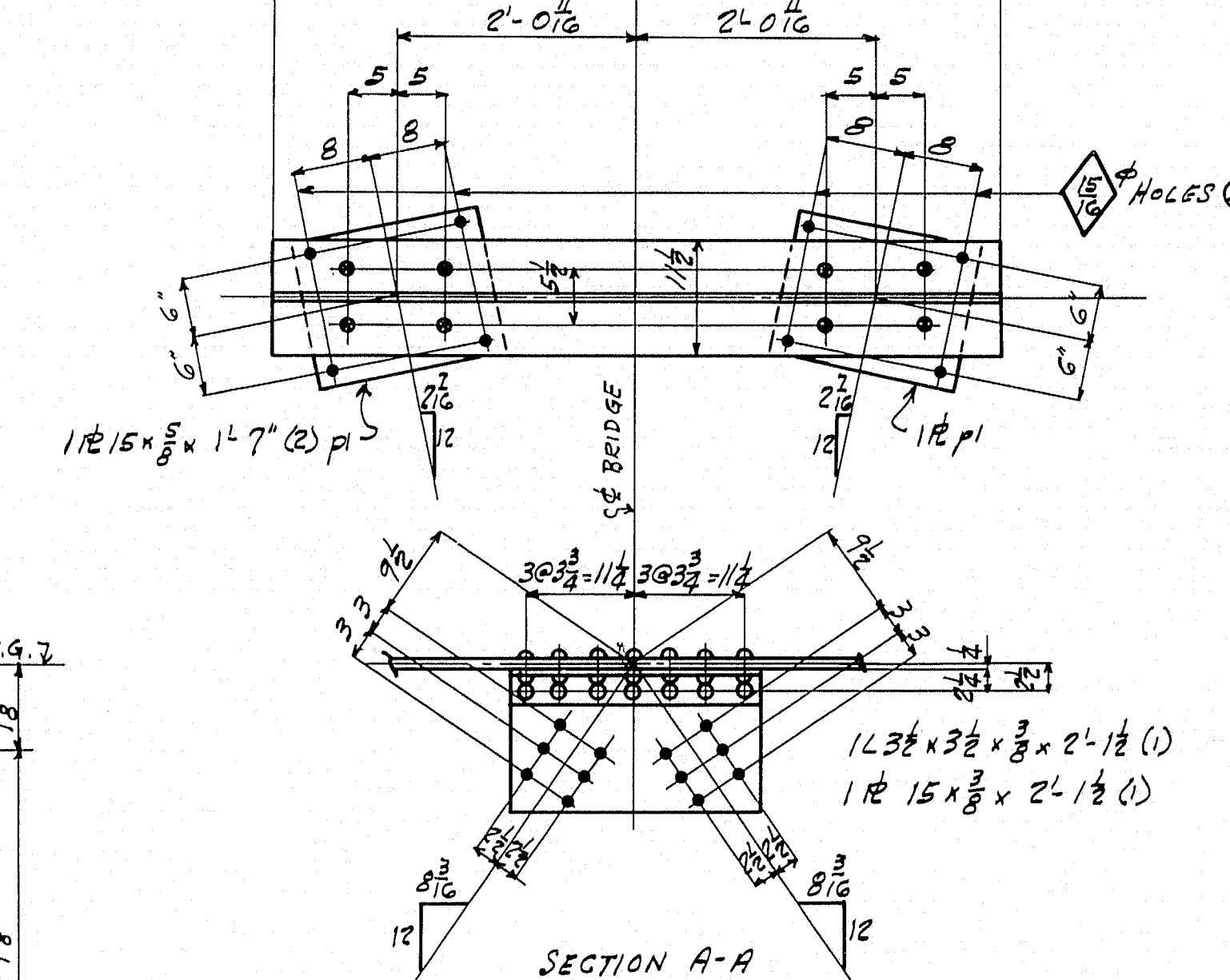
STATE OF MAINE
SOUTHPORT BRIDGE
OVER
TOWNSEND GUT
BETWEEN THE TOWNS OF
SOUTHPORT & BOOTHBAY HARBOR
LINCOLN COUNTY
PWA PROJECT N° MAINE 1120-F



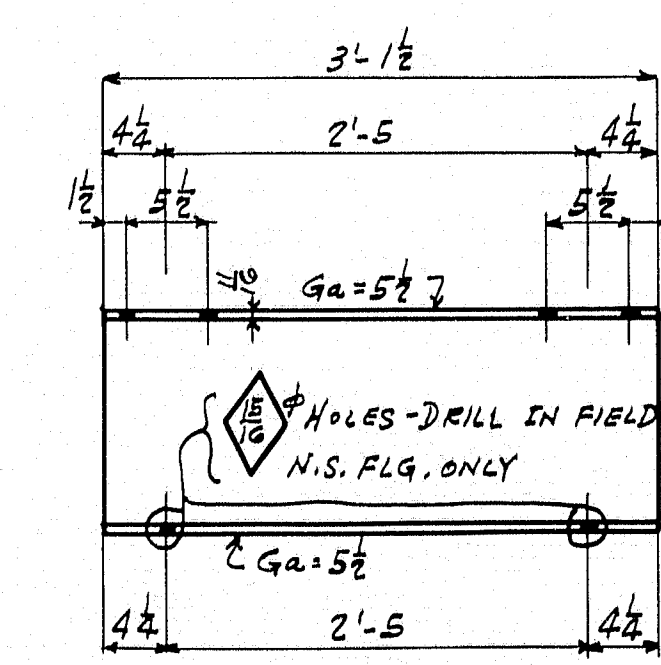
1-BEAM-23B1



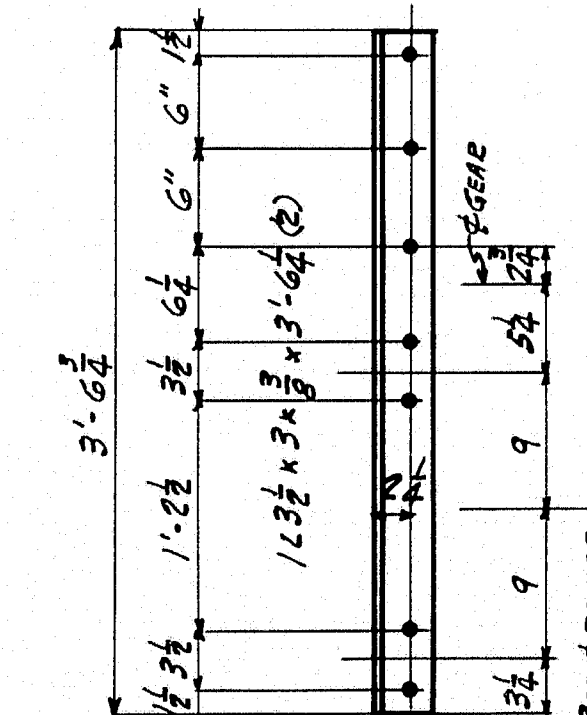
1-BEAM-23B10



SECTION A-A

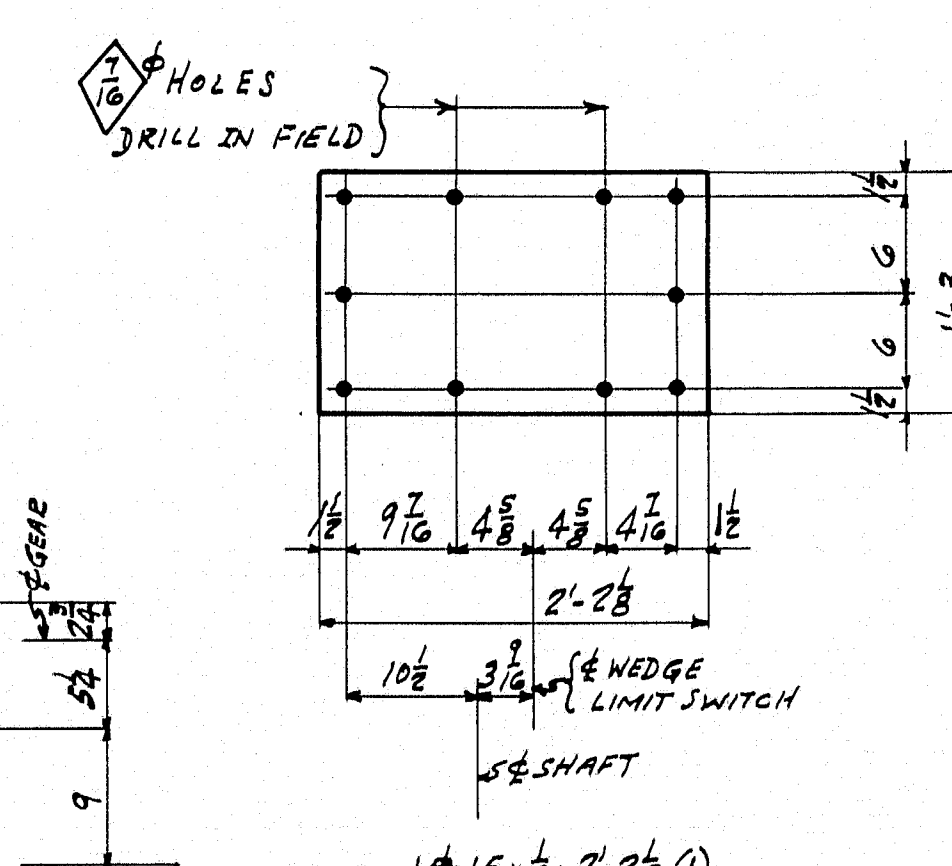


1-BEAM-23B9

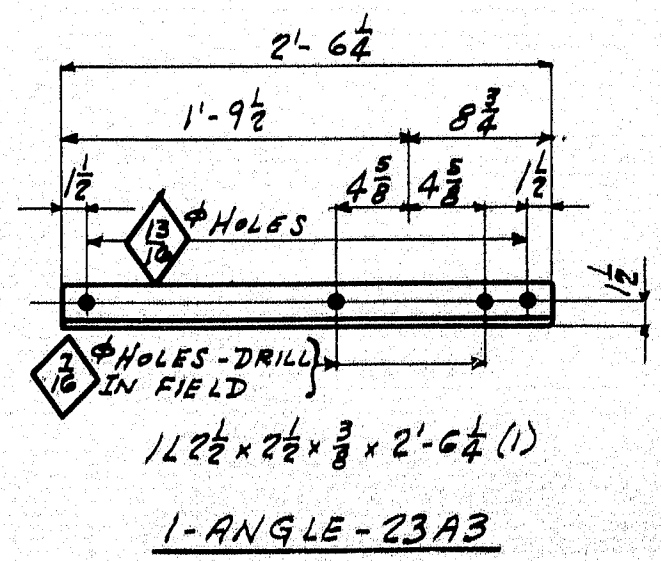


1-ANGLE-23A1R

1-Do-23A1R OFF HAND

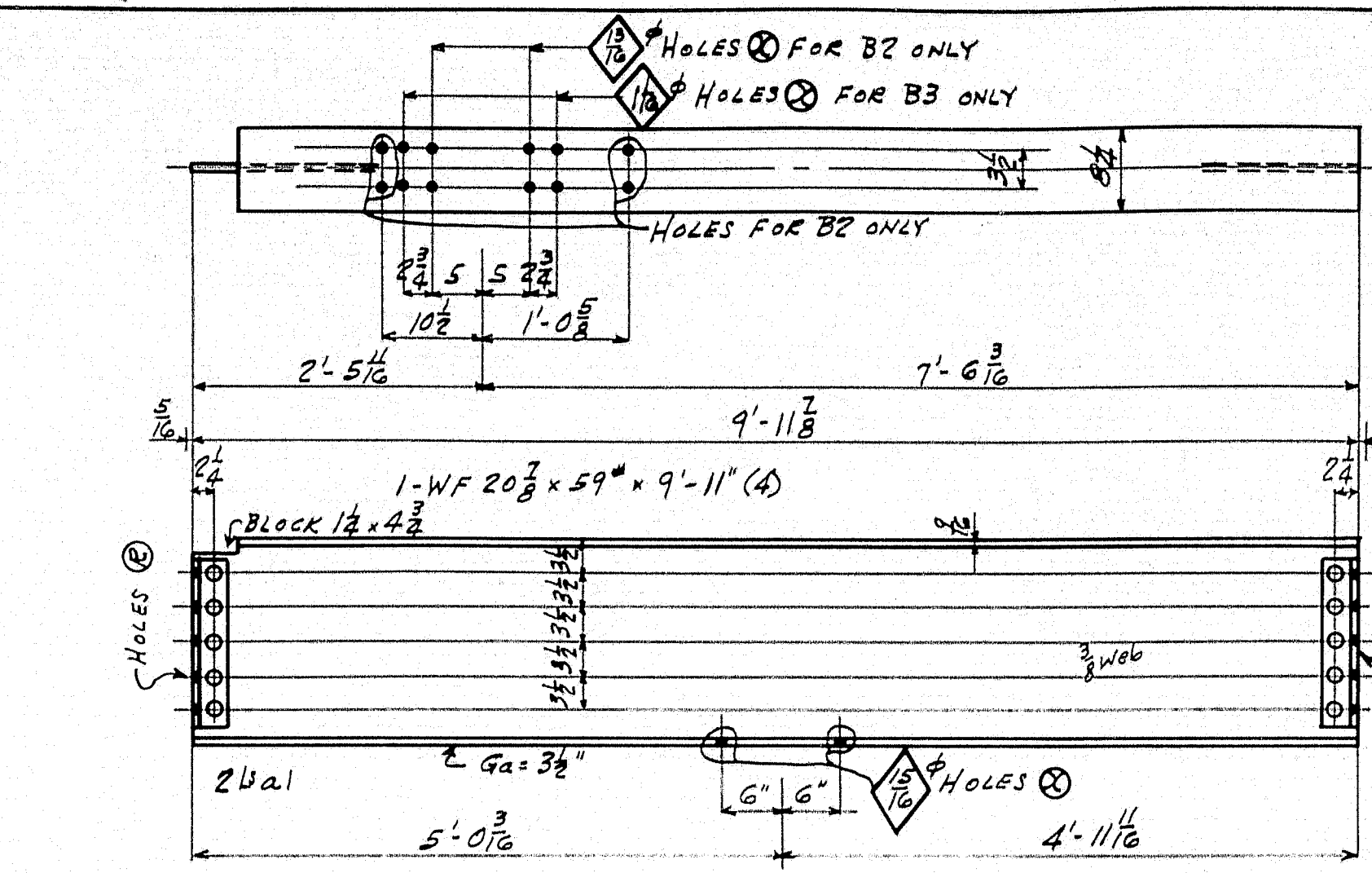


1-PLATE-23P2



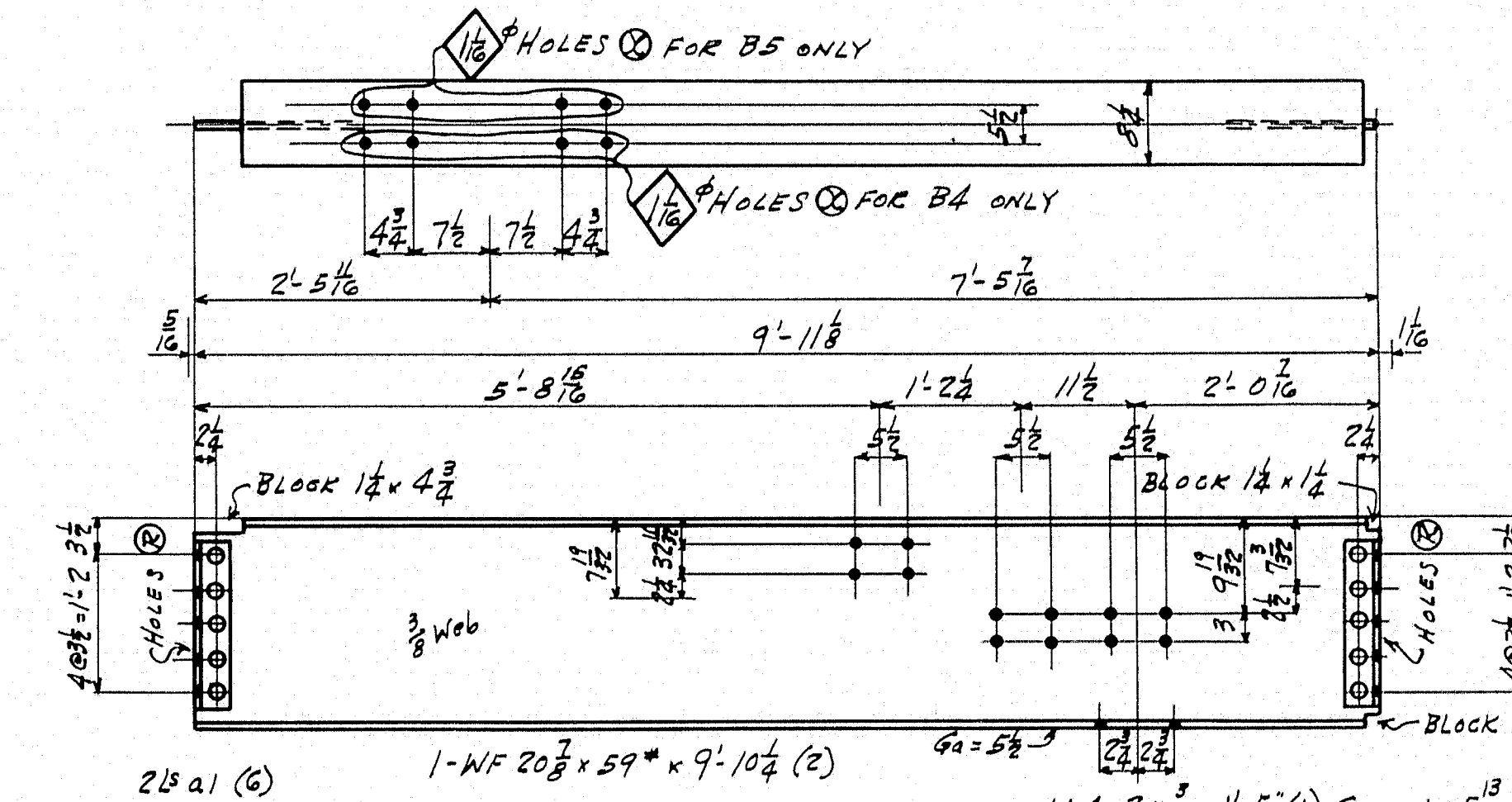
1-ANGLE-23A2R

1-Do-23A2R OFF HAND



2-BEAMS-23B2

2-Do-23B3



1-BEAM-23B4

1-Do-23B5

1-Do-23B6

1-Do-23B7

1-Do-23B8

1-Do-23B9

1-Do-23B10

1-Do-23B11

1-Do-23B12

1-Do-23B13

1-Do-23B14

1-Do-23B15

1-Do-23B16

1-Do-23B17

1-Do-23B18

1-Do-23B19

1-Do-23B20

1-Do-23B21

1-Do-23B22

1-Do-23B23

1-Do-23B24

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1-Do-23B26

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1-Do-23B42

1-Do-23B43

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1-Do-23B50

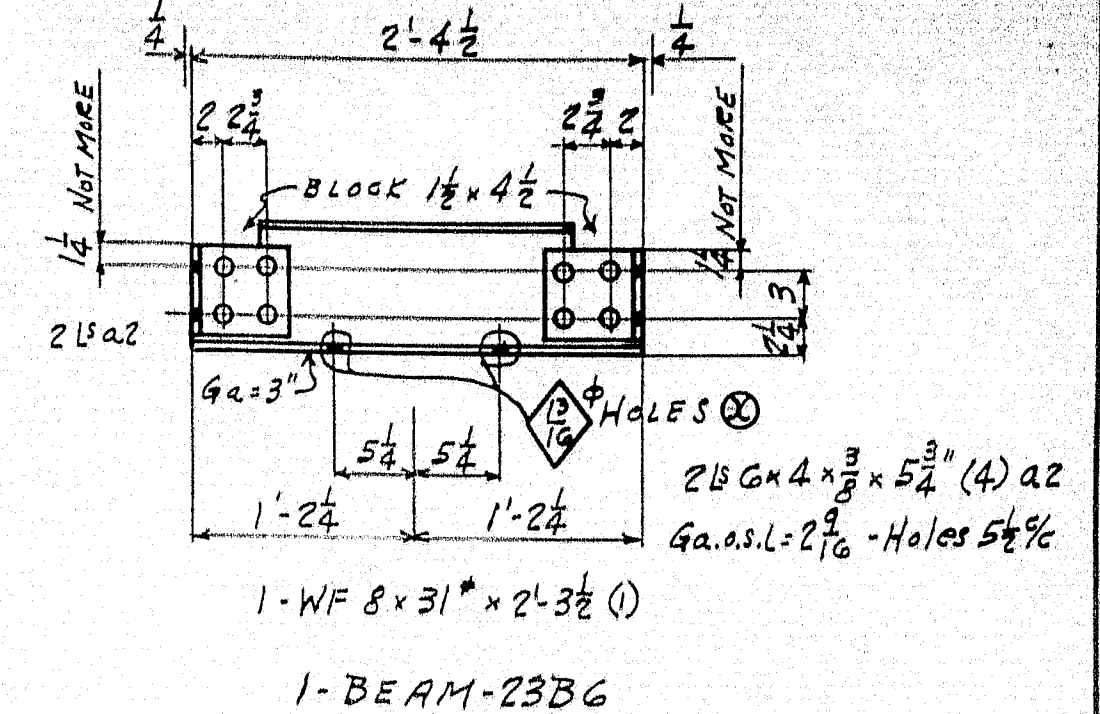
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1-Do-23B52

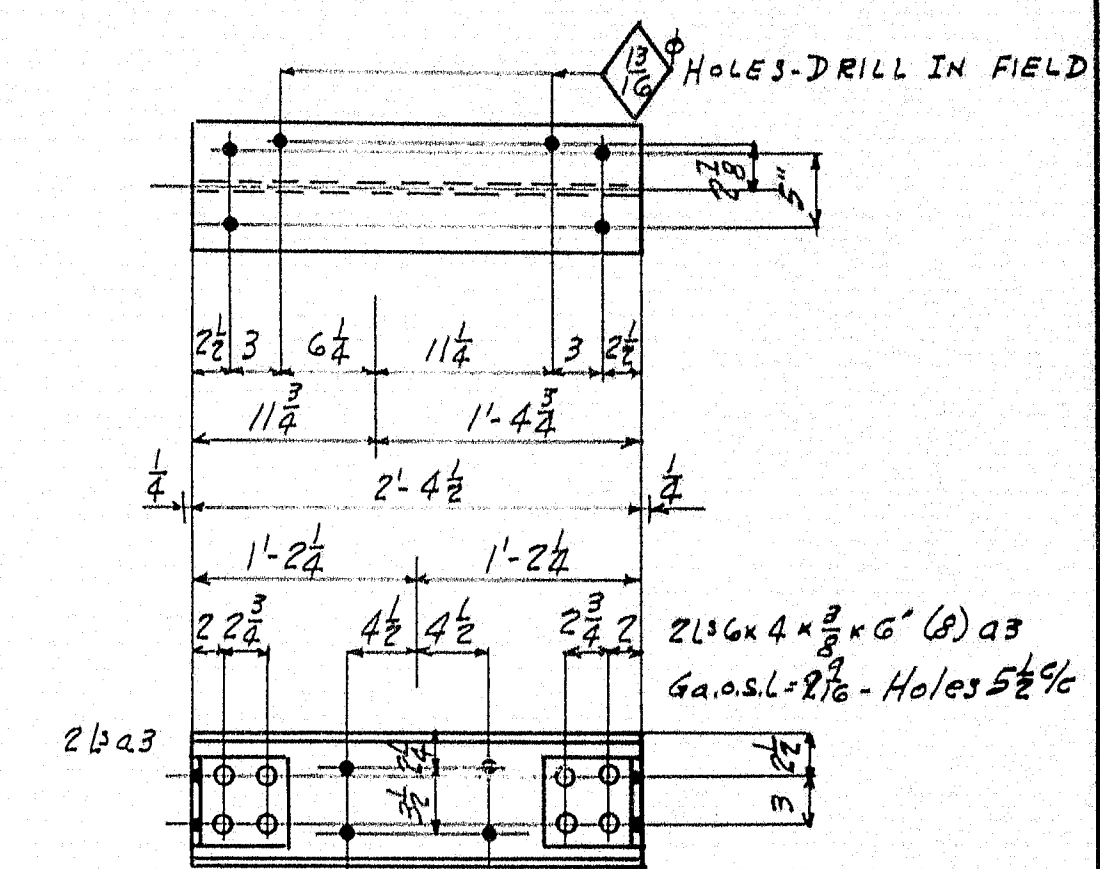
1-Do-23B53

1-Do-23B54

1-Do-23B55



1-BEAM-23B6



1-BEAM-23B7

1-Do-23B8

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1-Do-23B10

1-Do-23B11

1-Do-23B12

1-Do-23B13

1-Do-23B14

1-Do-23B15

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1-Do-23B179

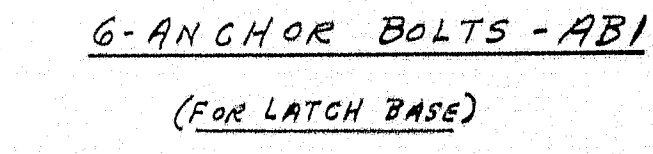
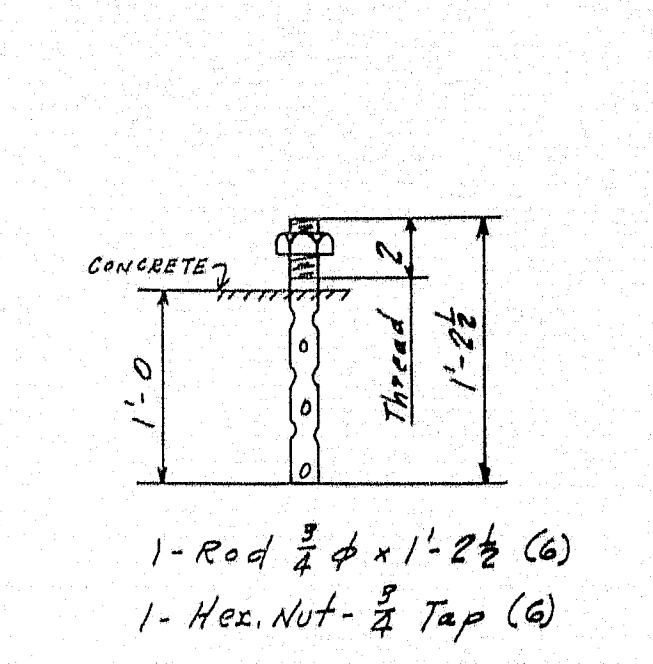
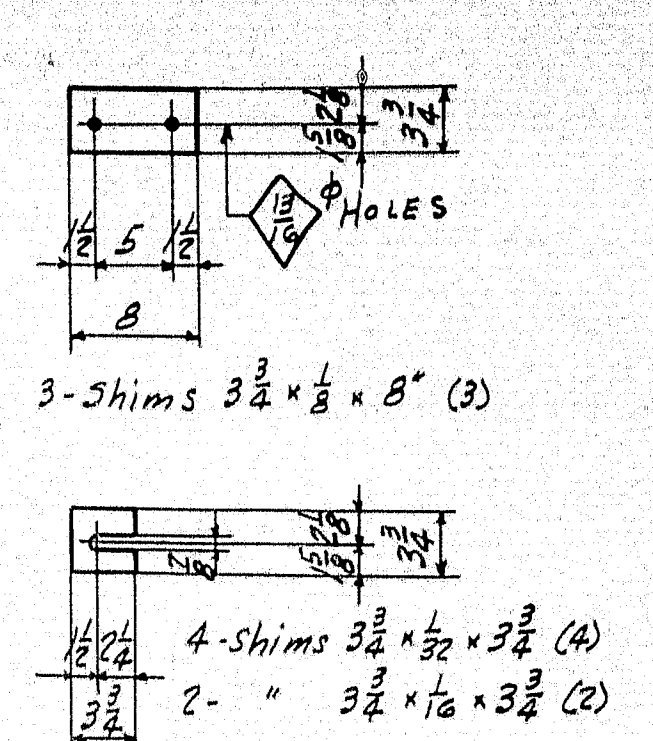
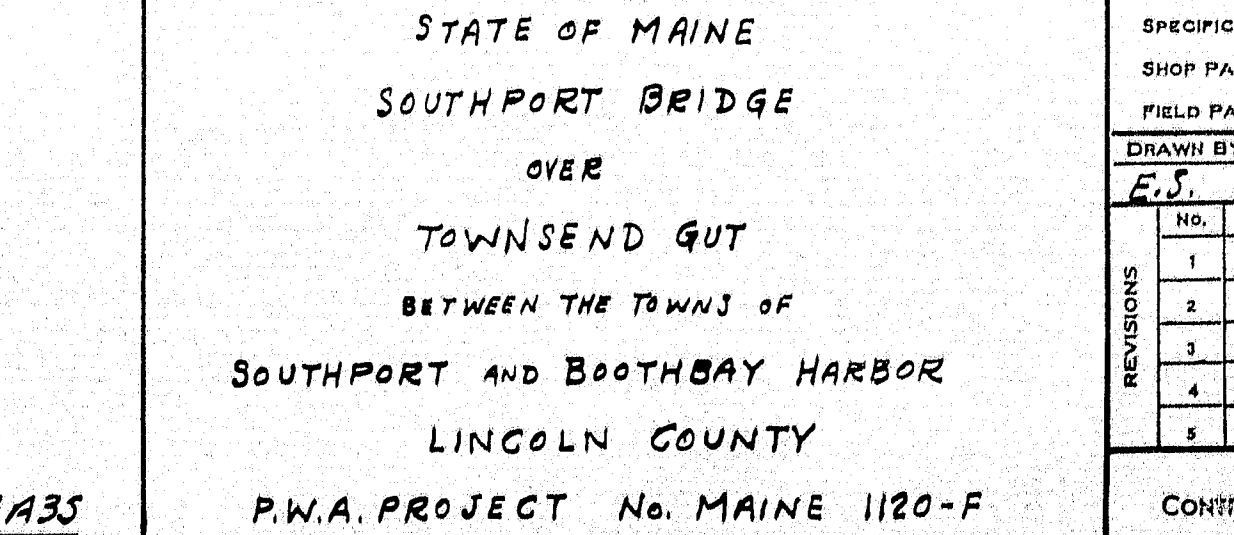
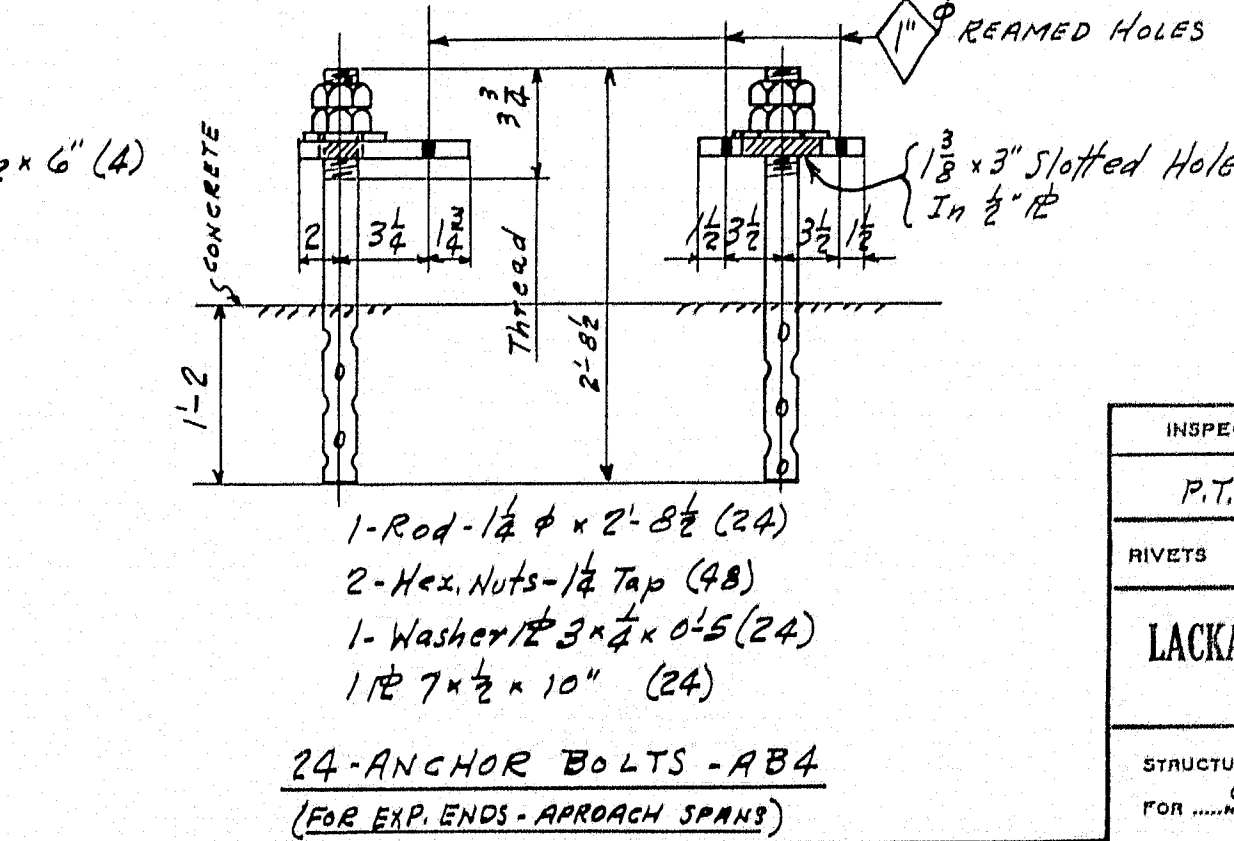
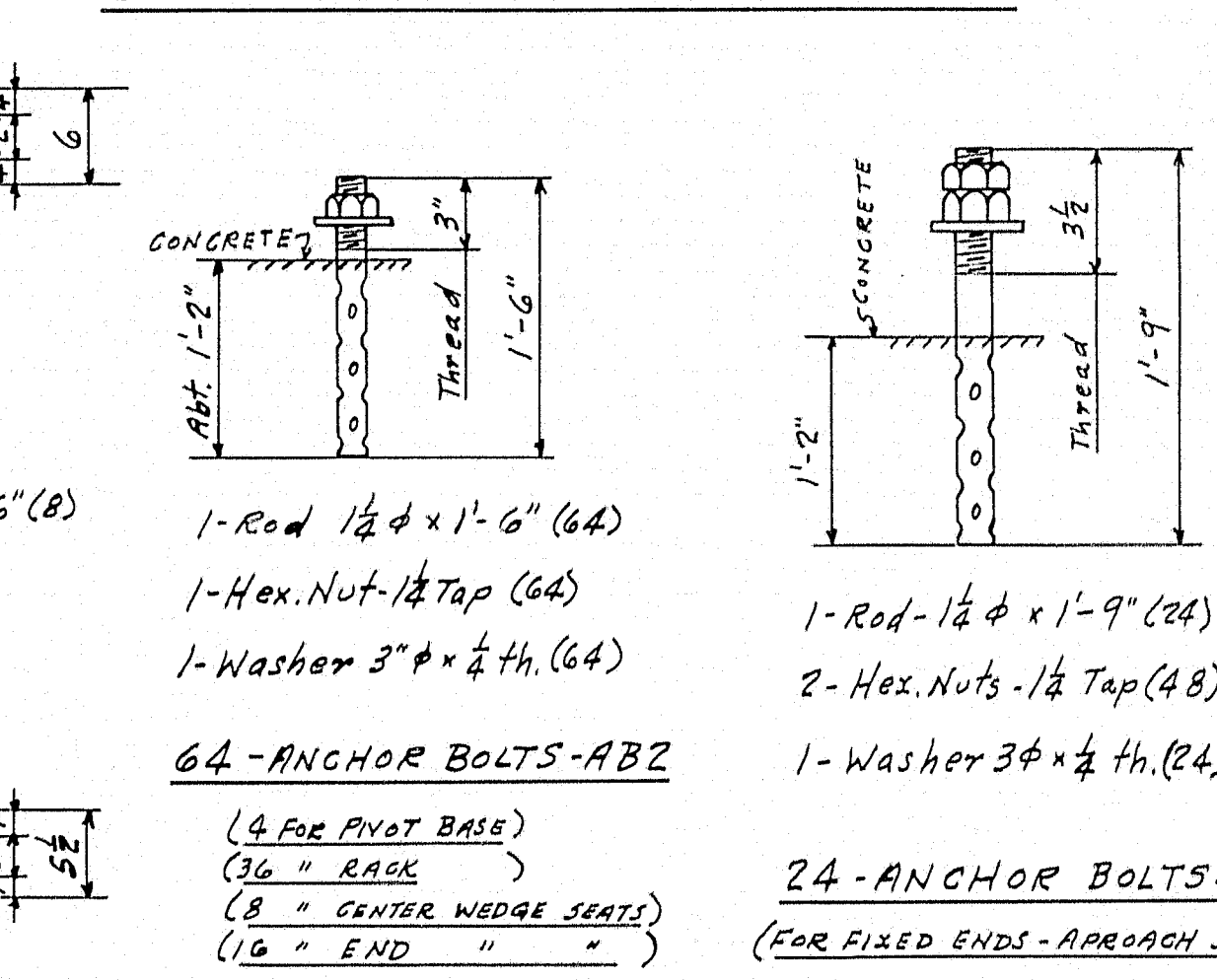
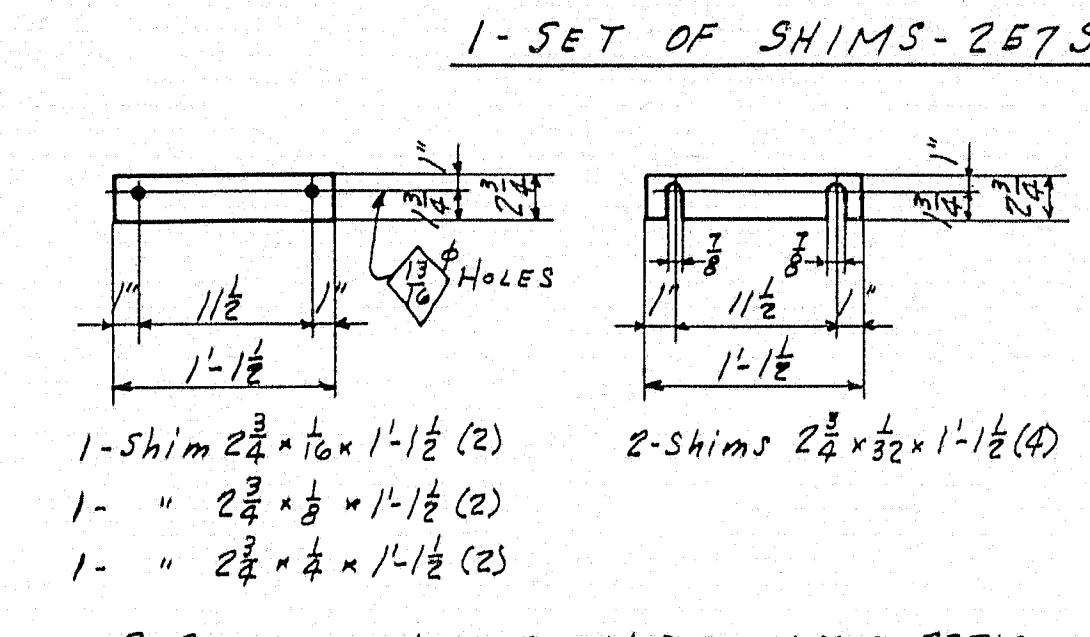
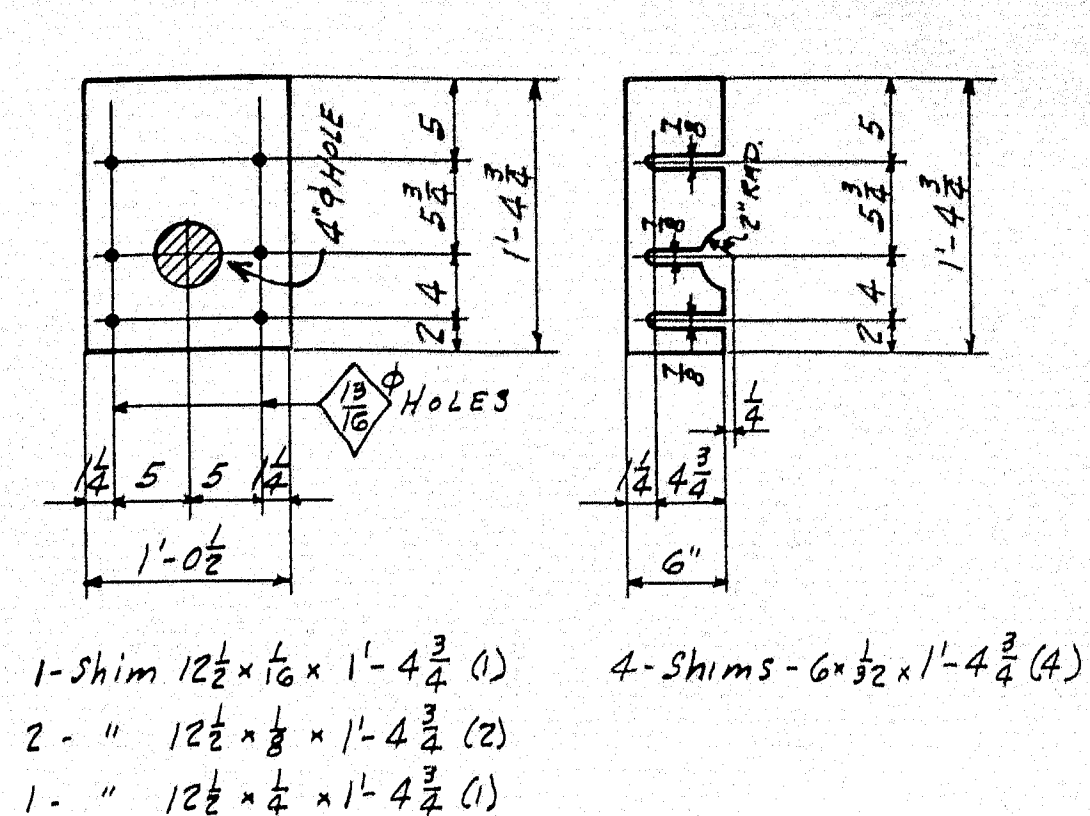
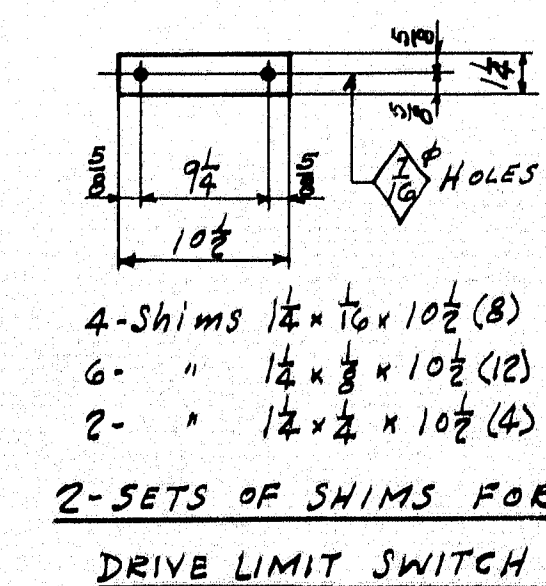
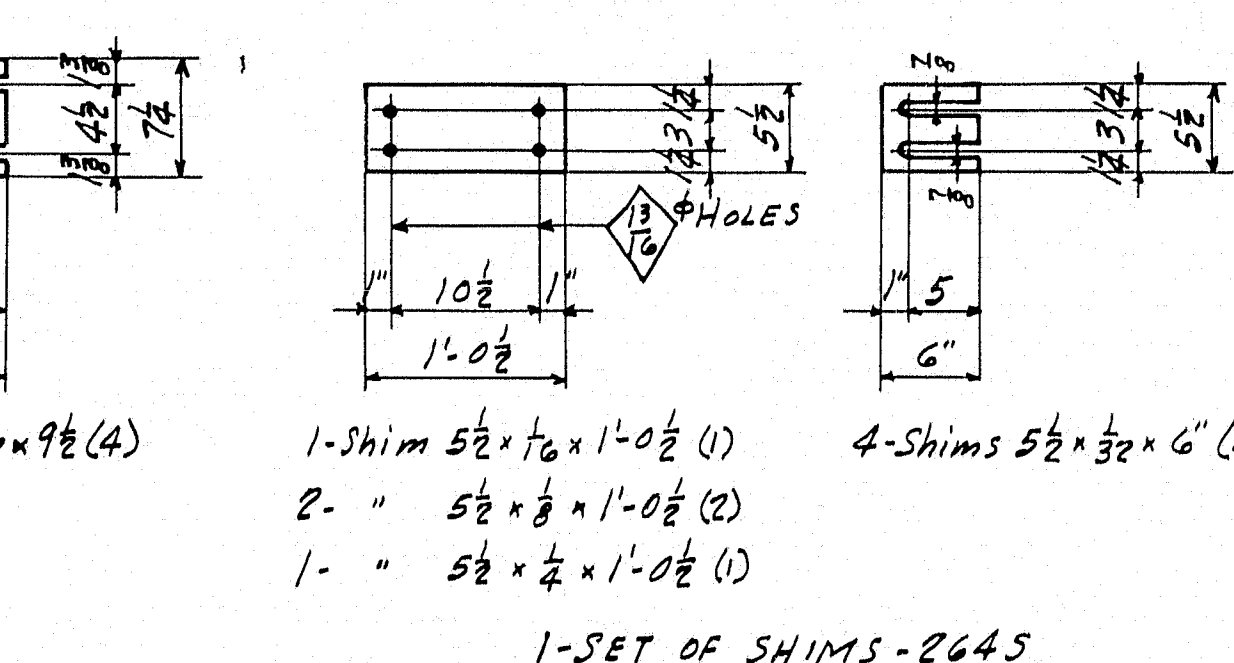
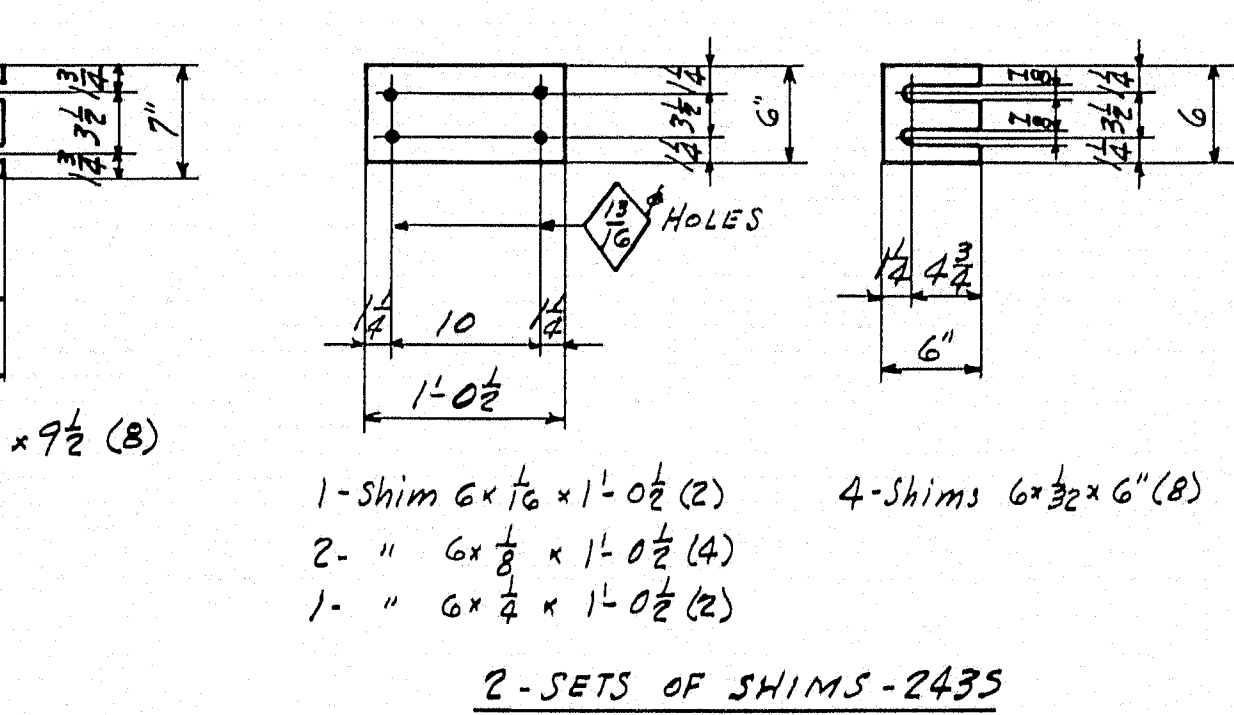
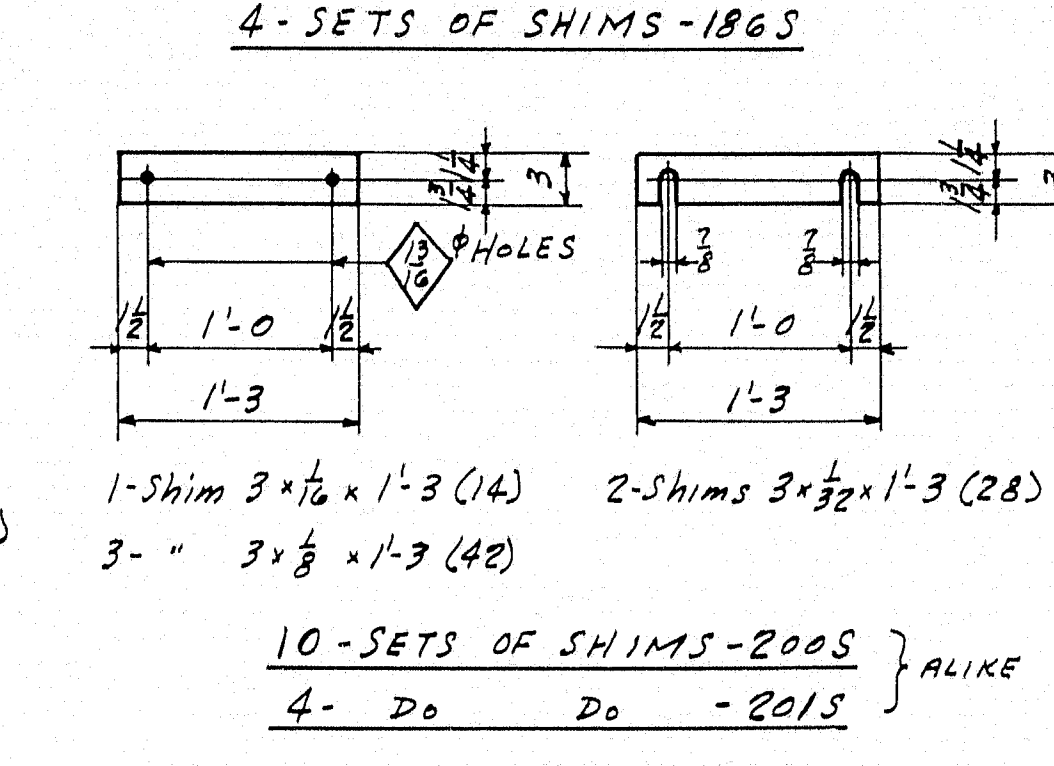
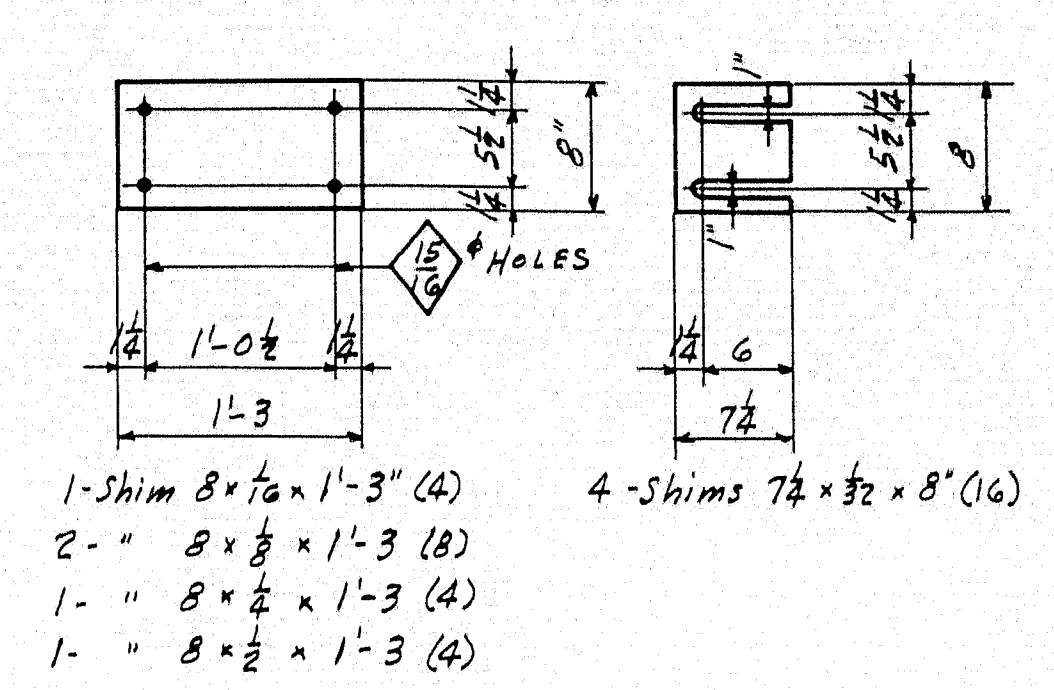
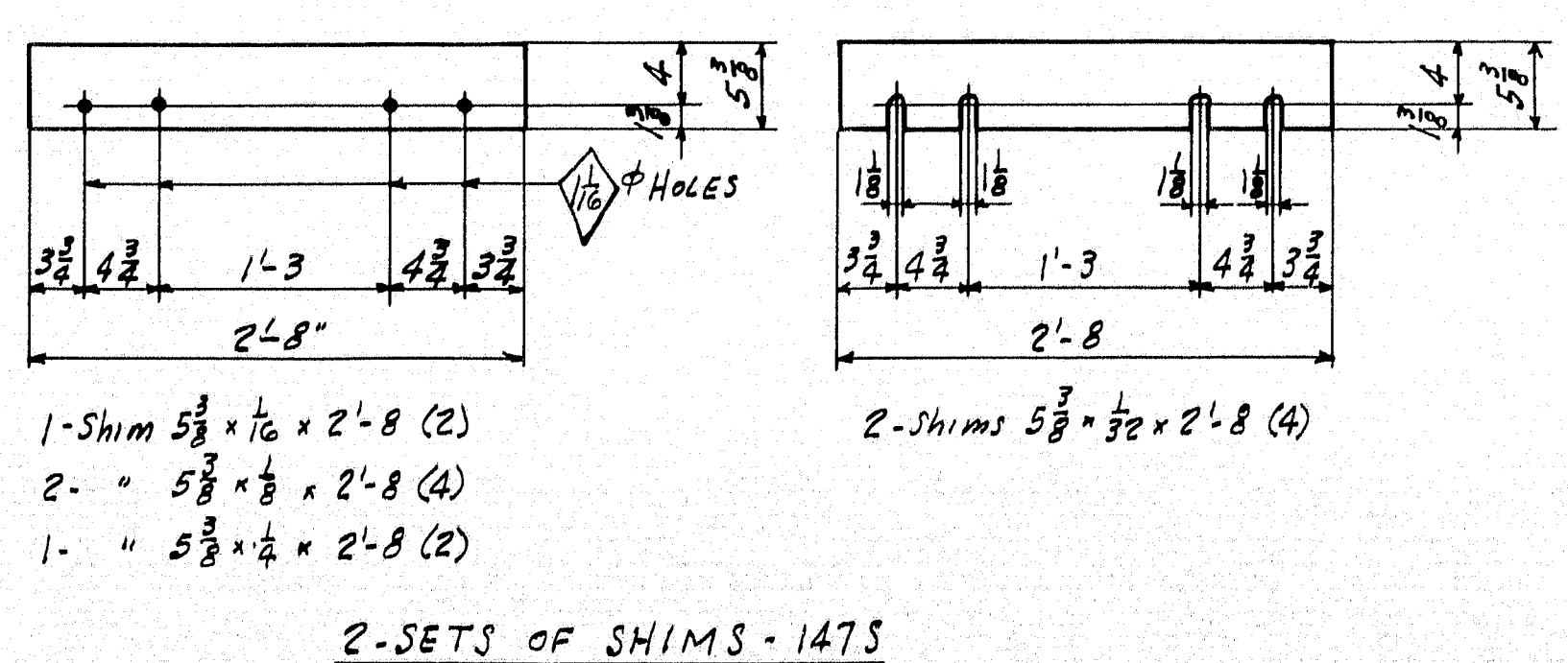
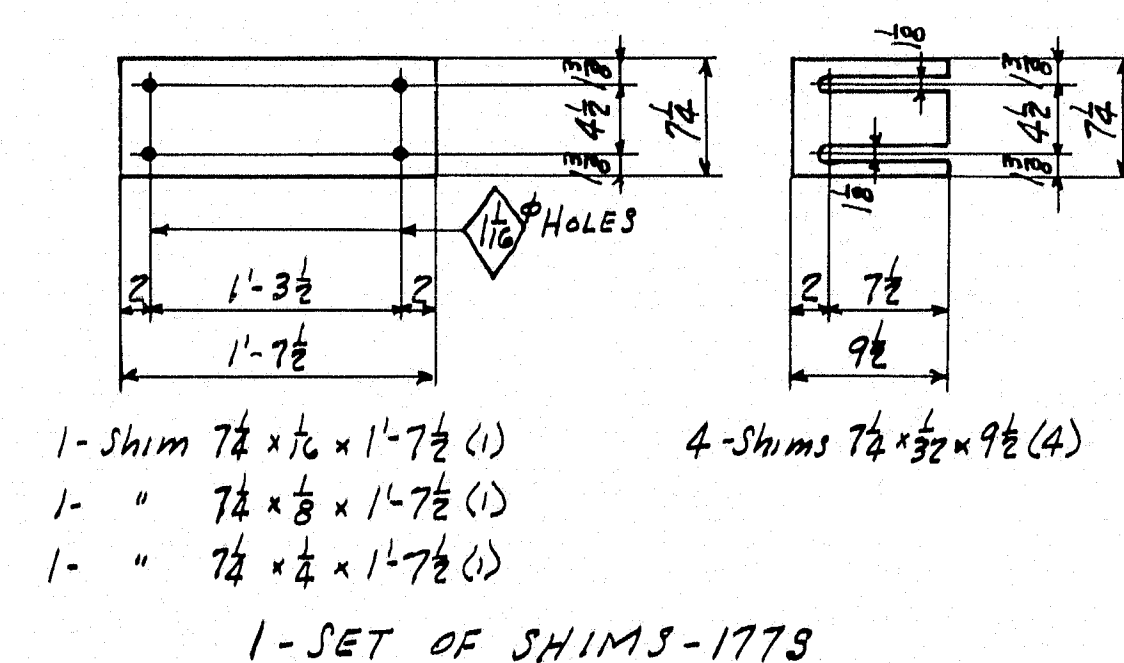
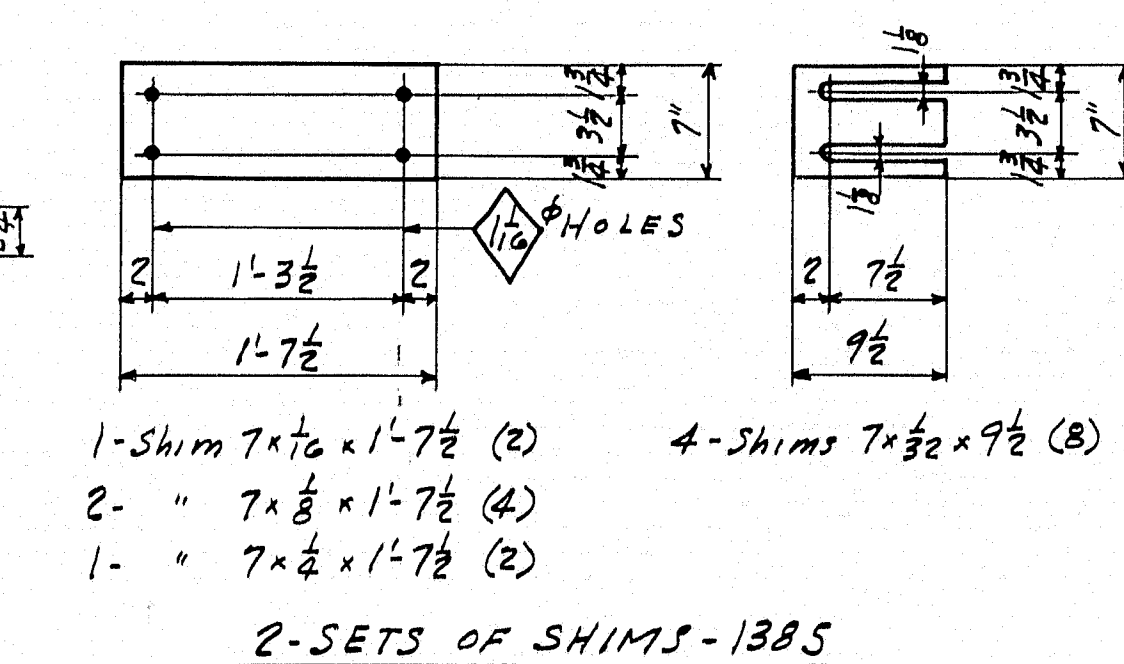
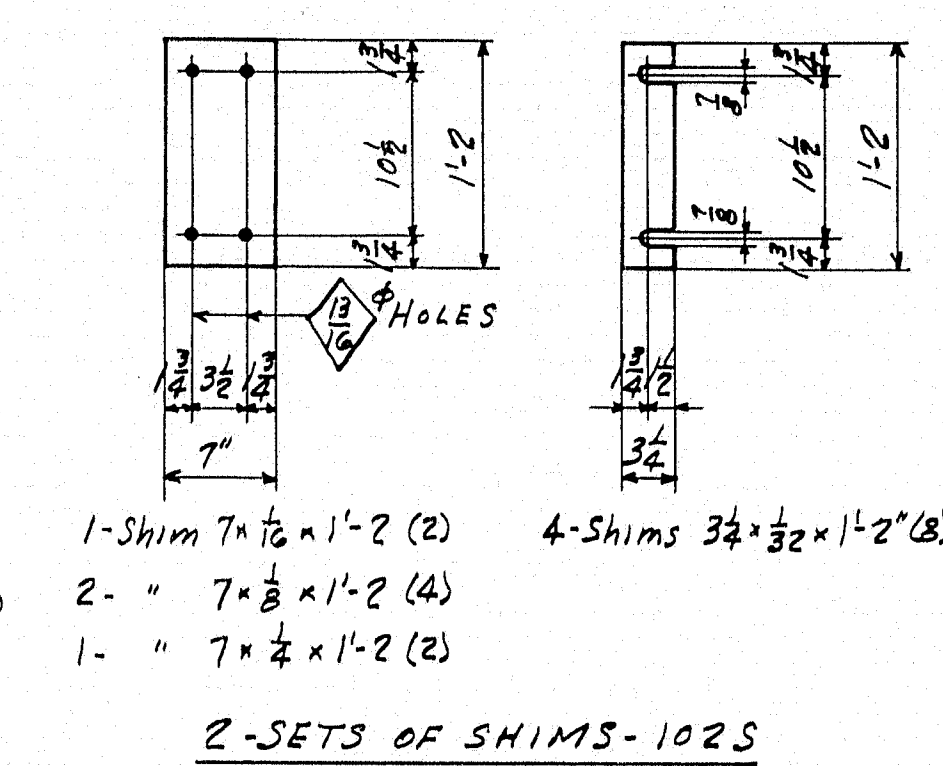
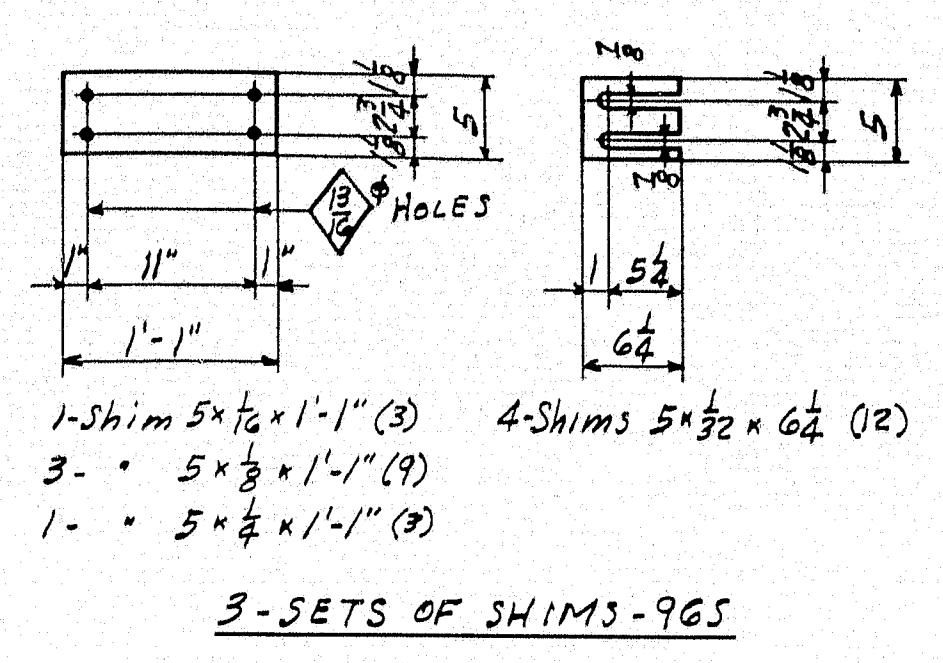
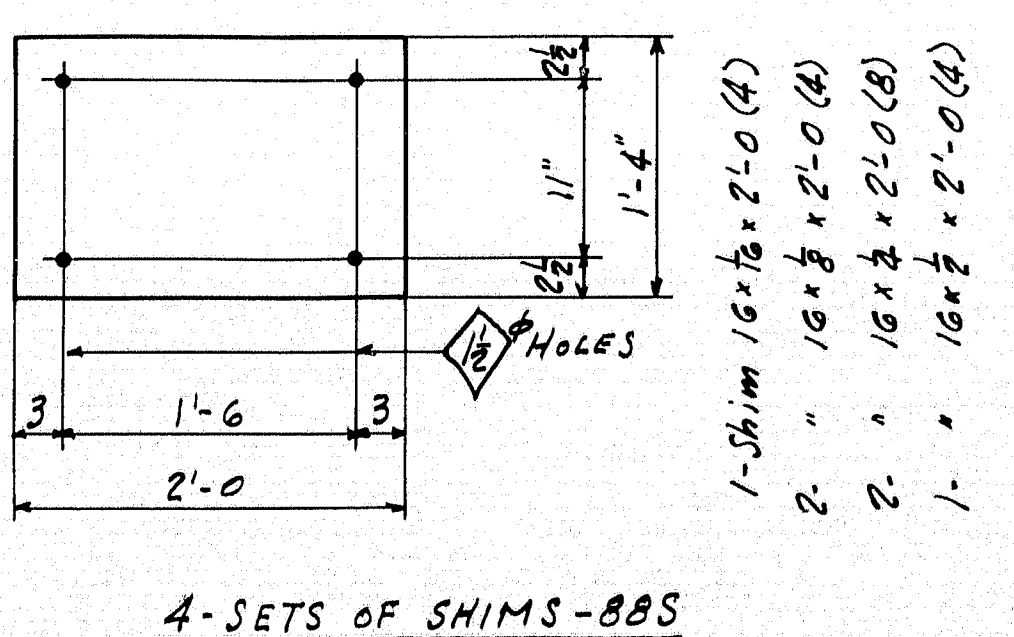
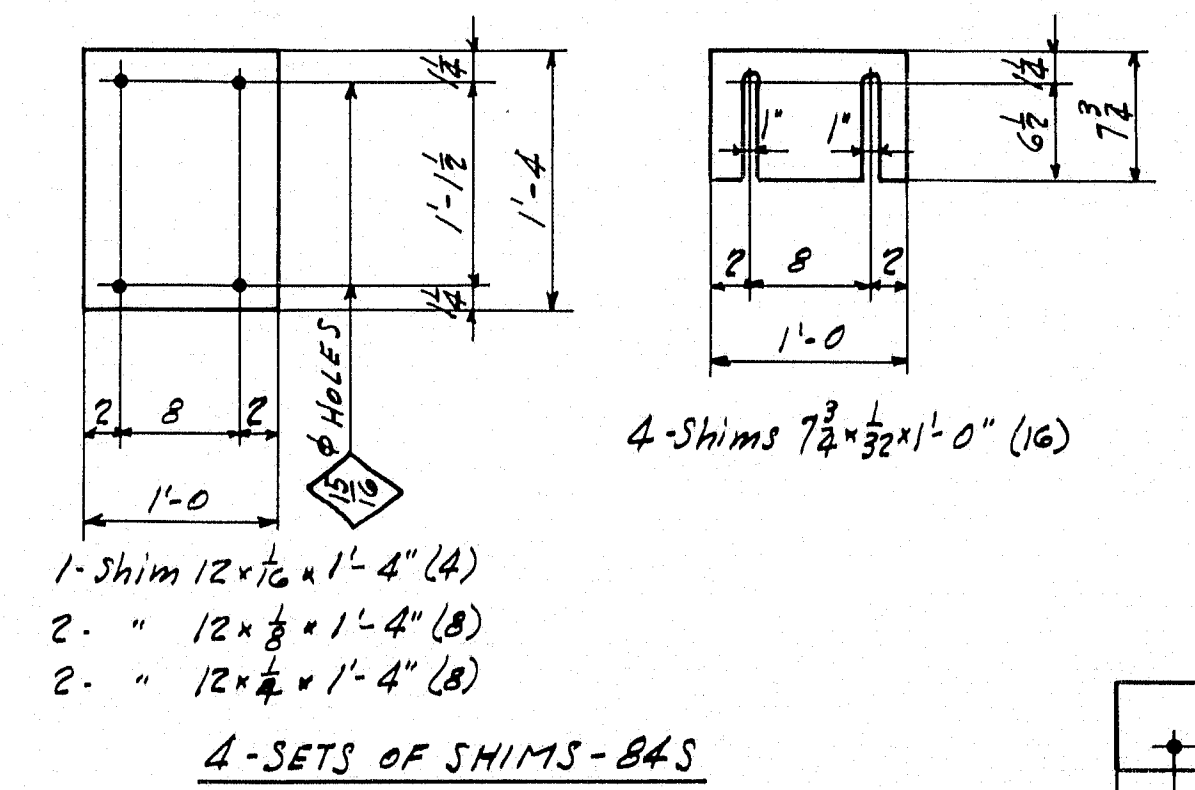
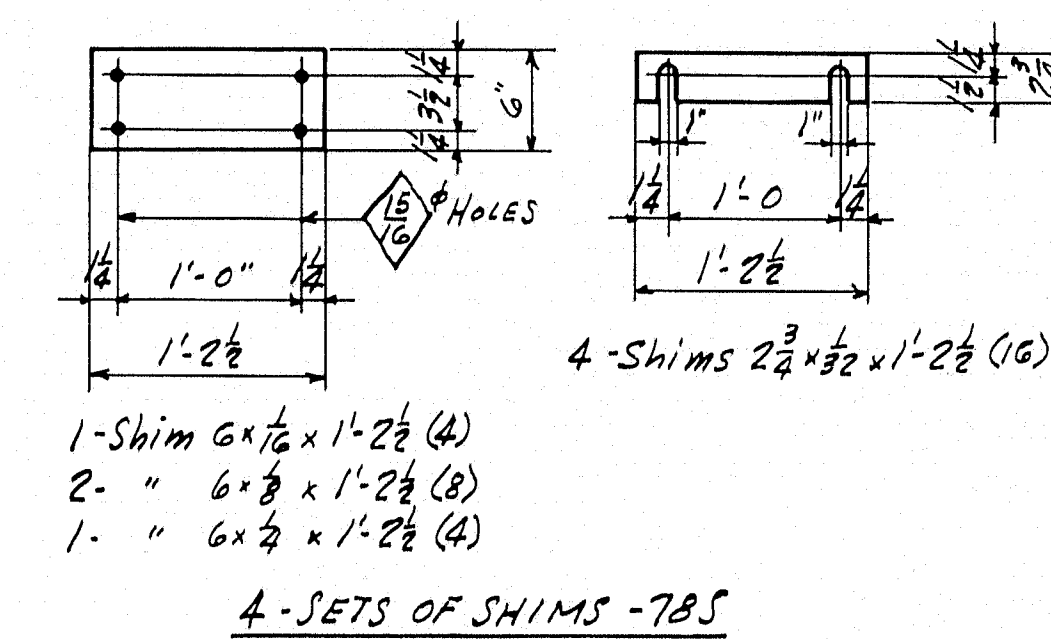
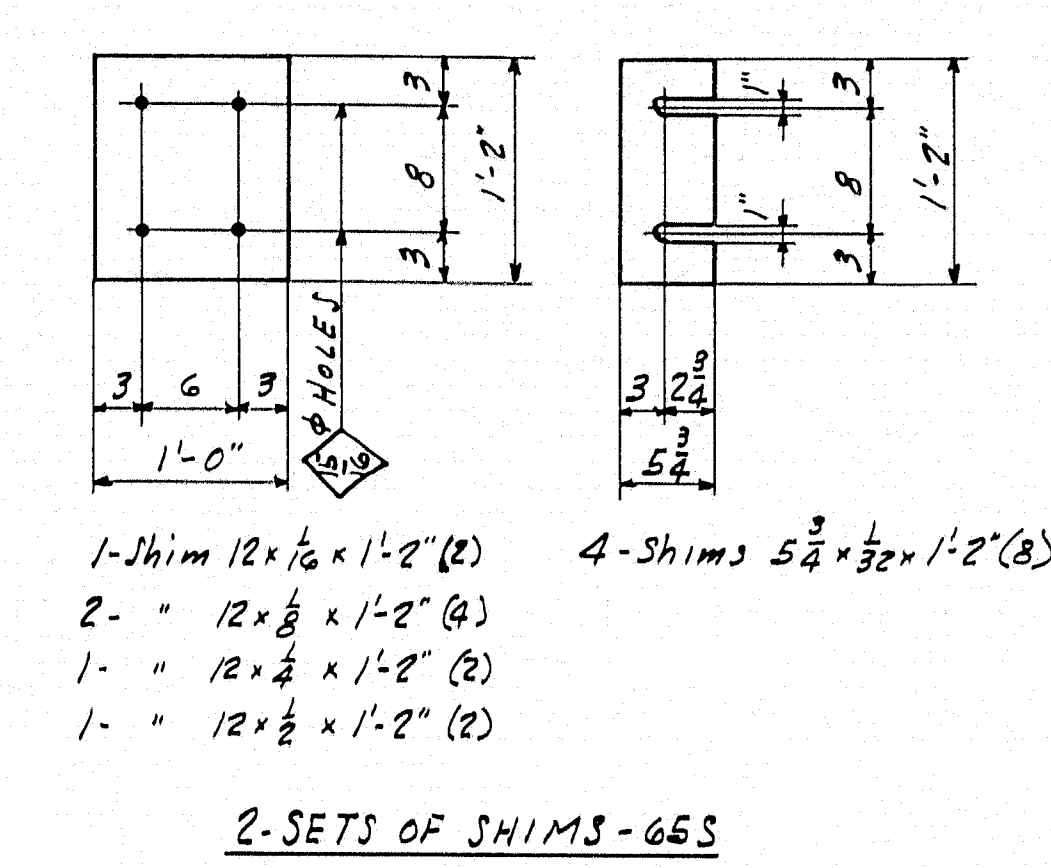
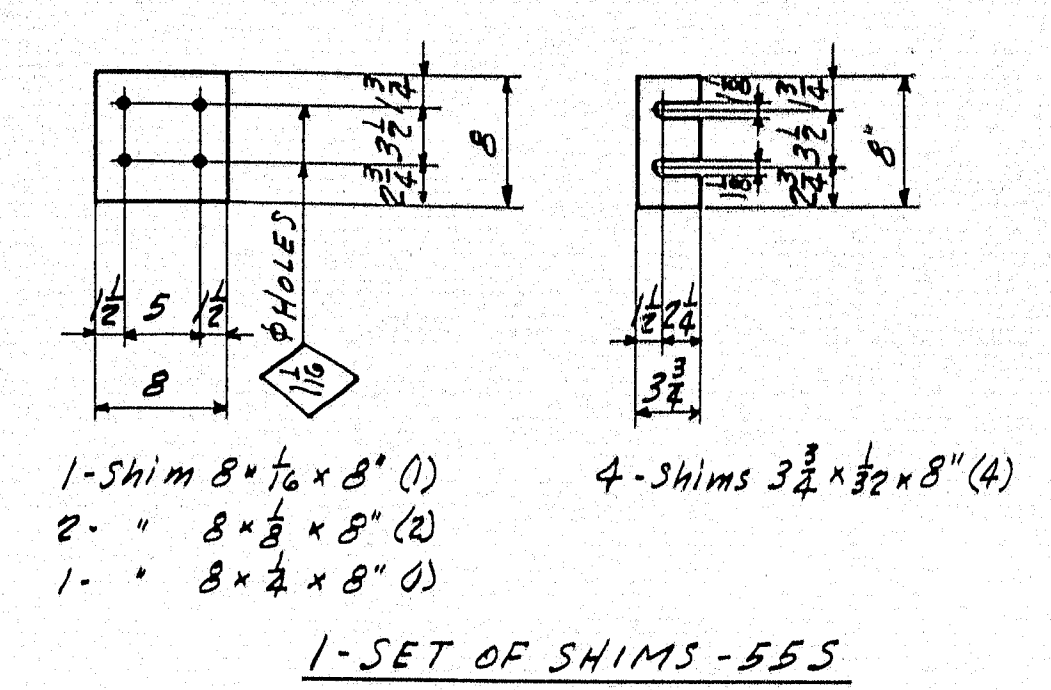
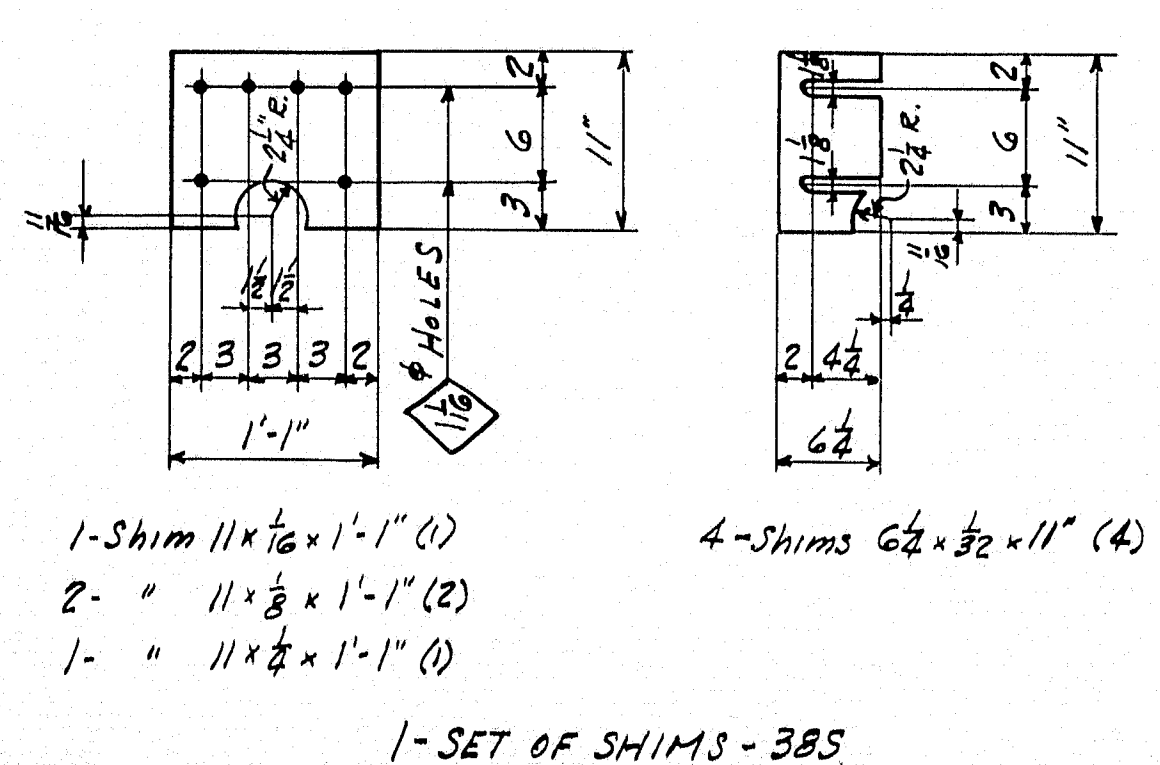
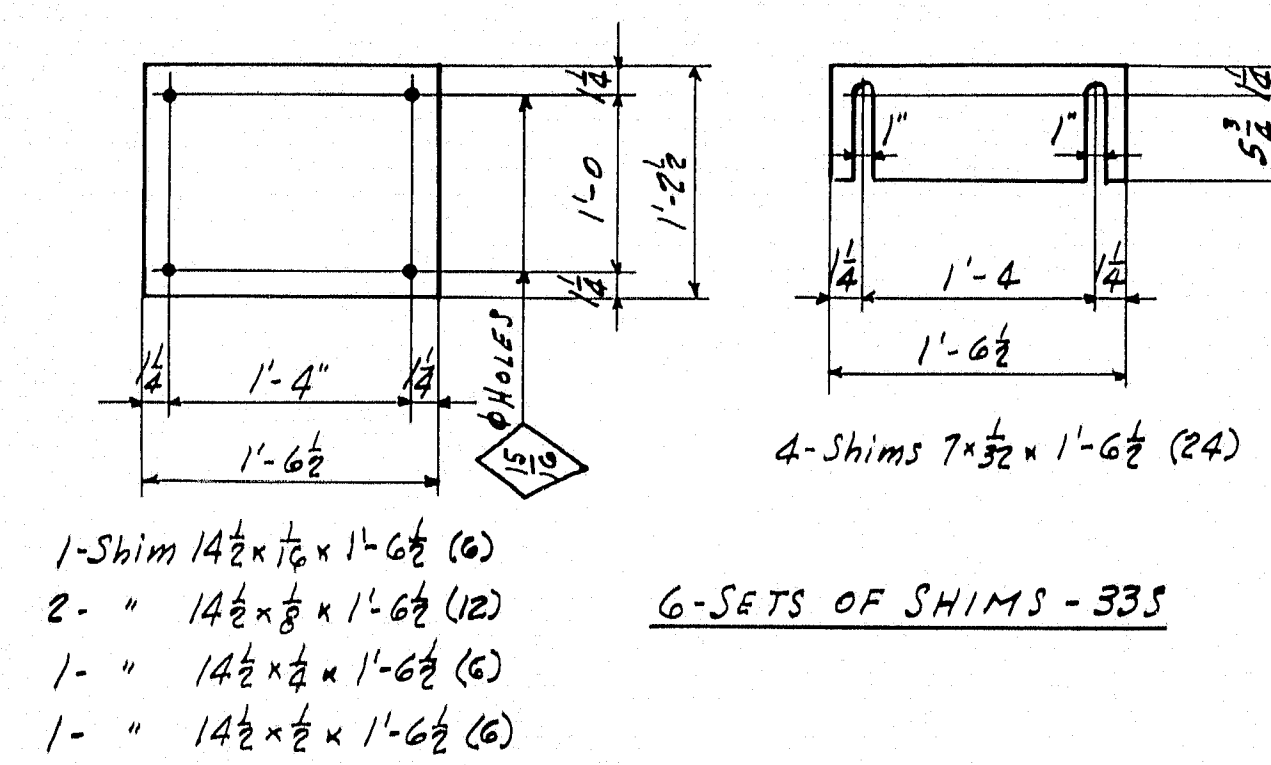
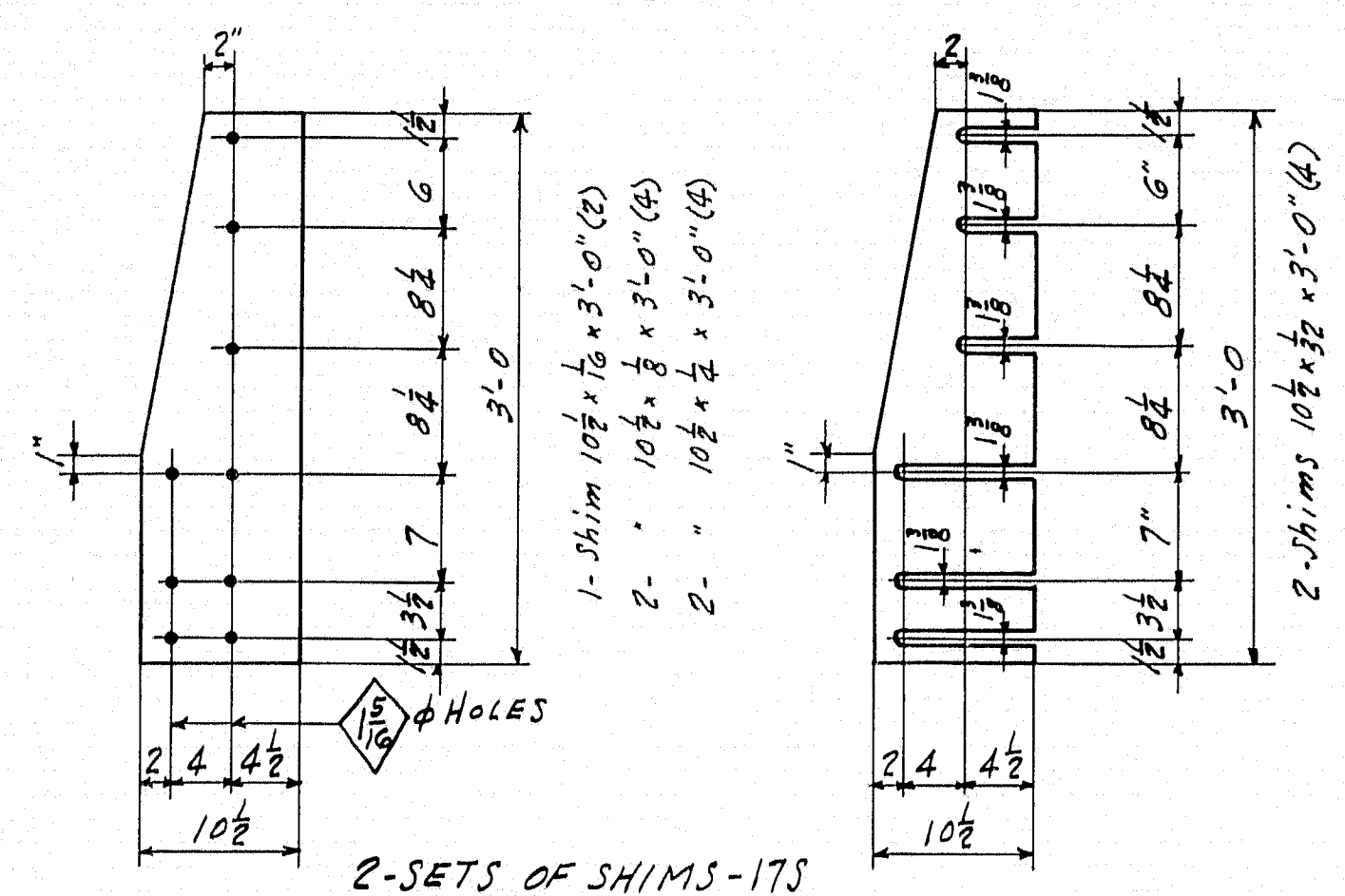
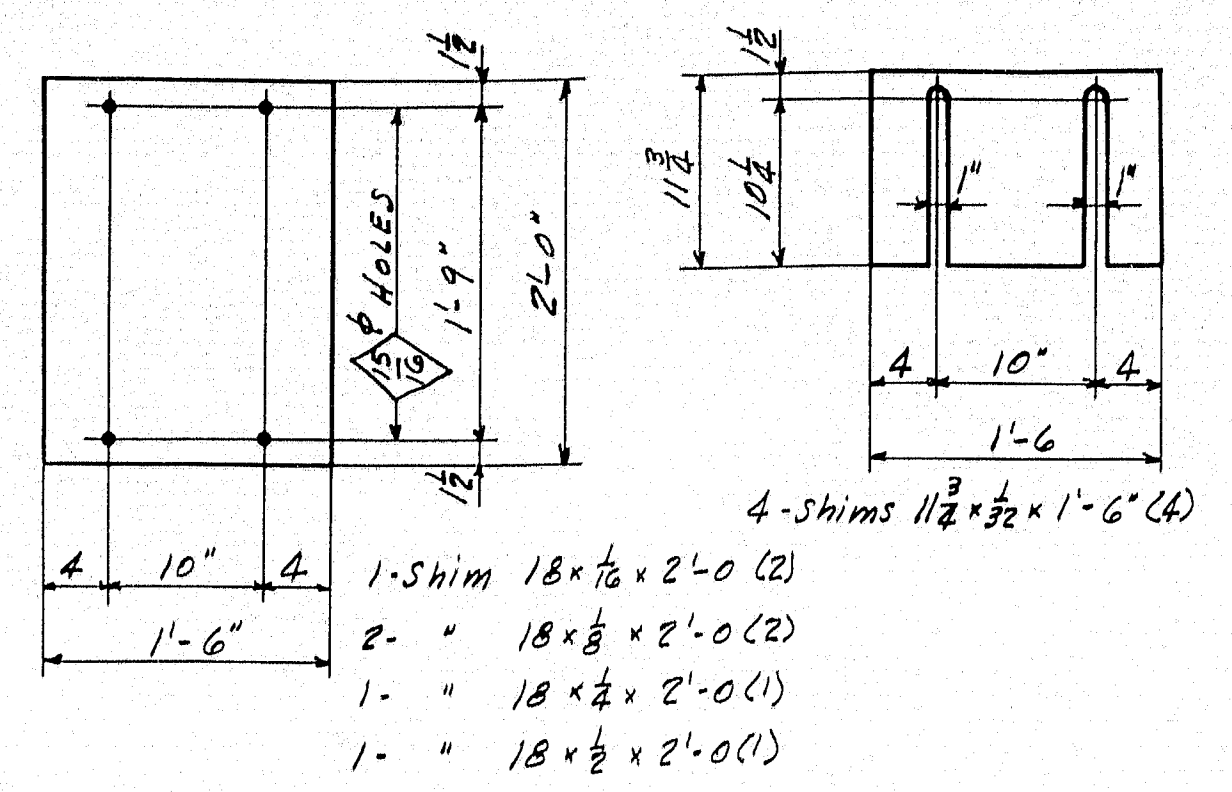
1-Do-23B180

1-Do-23B181

1-Do-23B182

1-Do-23B183

1-



INSPECTION	SHOP RIVETS	WEIGHT
P.T.L.		
RIVETS	OPEN HOLES AS NOTED	
LACKAWANNA STEEL CONSTRUCTION CORP'N BUFFALO, N. Y.		
STRUCTURE SOUTHPORT BRIDGE		
FOR STATE OF MAINE		
DETAILS OF SHIMS & ANCHOR BOLTS		
SPECIFICATIONS MAINE STEEL HWY BRIDGES-1937		
SHOP PAINT... NONE		
FIELD PAINT... TONGUE-UP COAT ONLY. (SAME AS SHOP)		
DRAWN BY	DATE	CHECKED BY
F.S.	1/10/39	R
NO.	DATE	BY
1		
2		
3		
4		
5		
CONTRACT No. 3337		SHEET No. 24