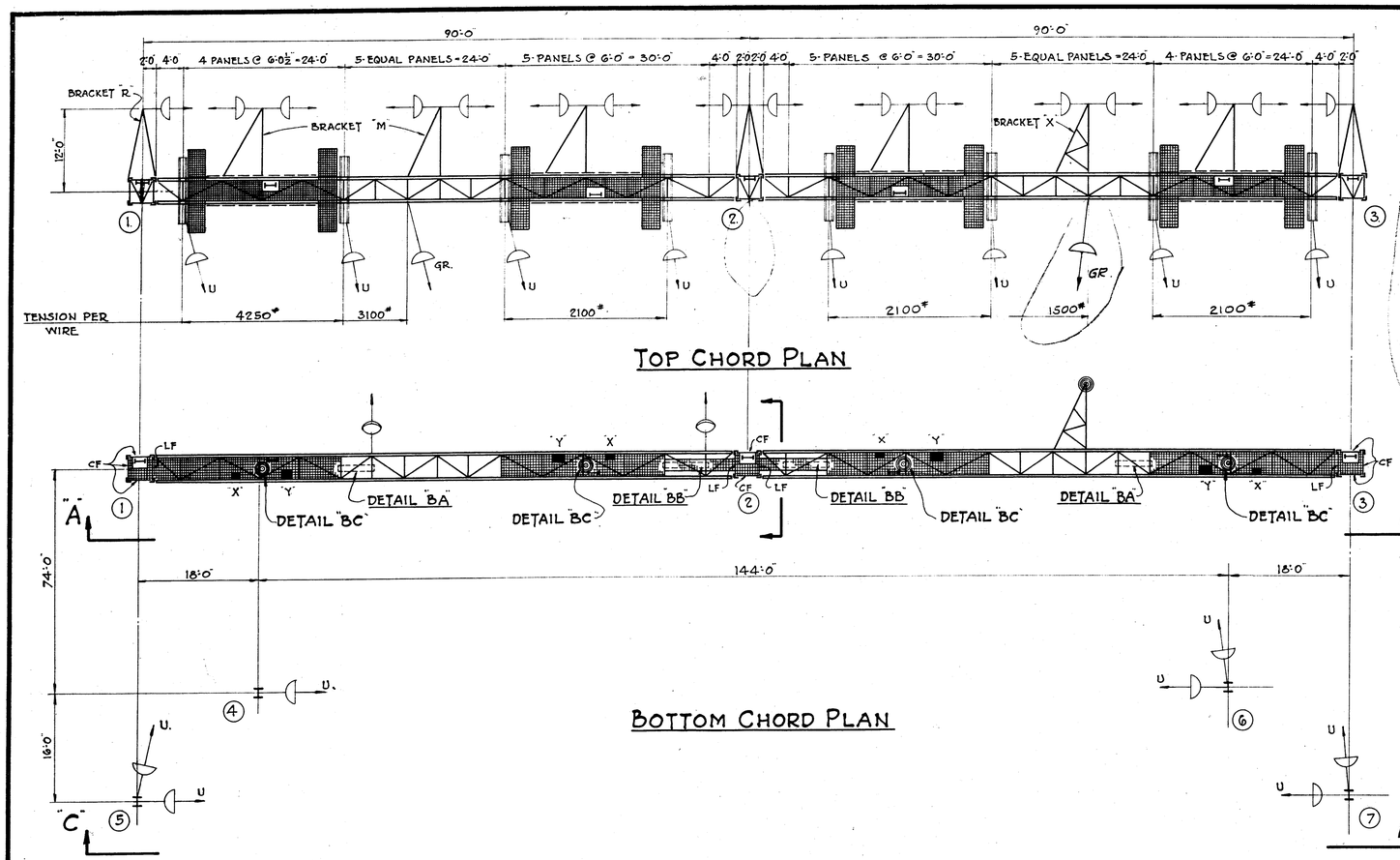
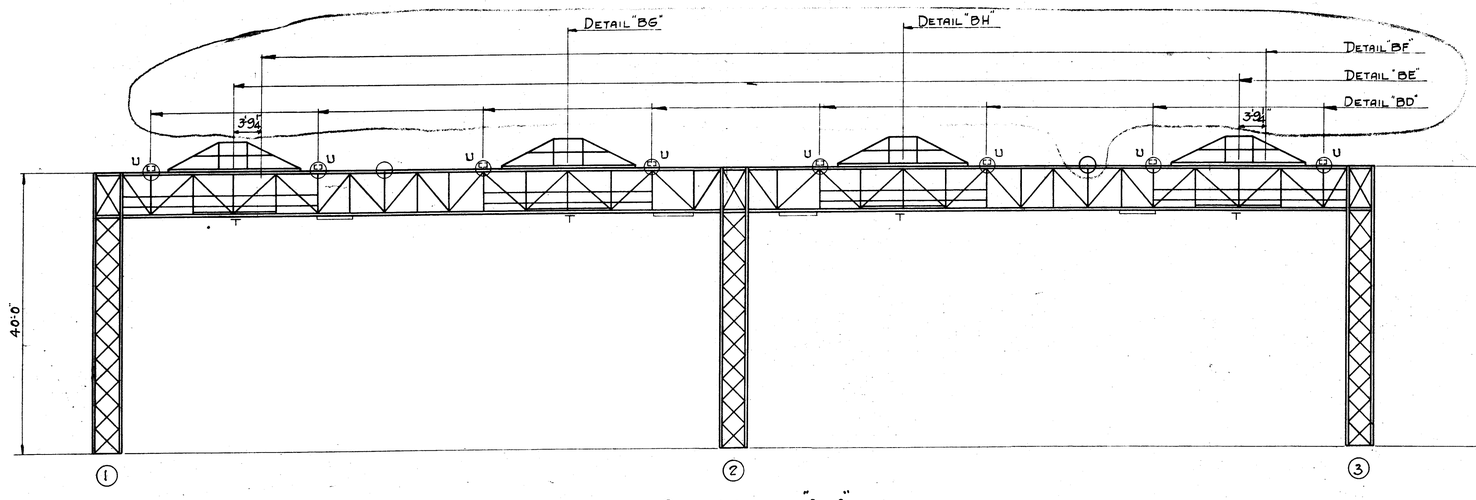
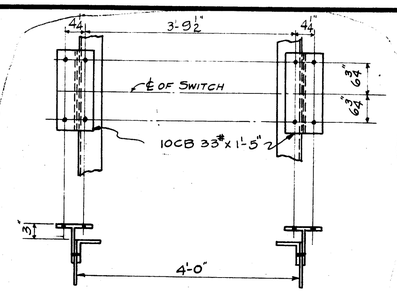
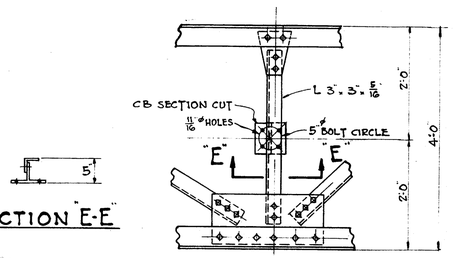
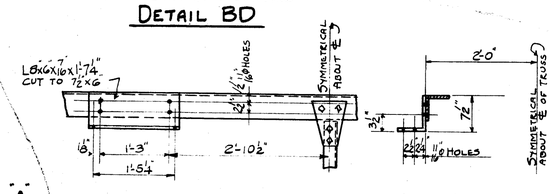
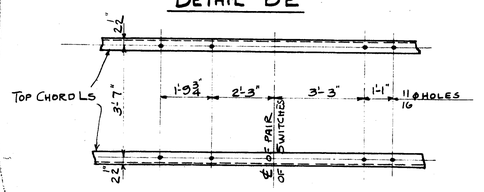


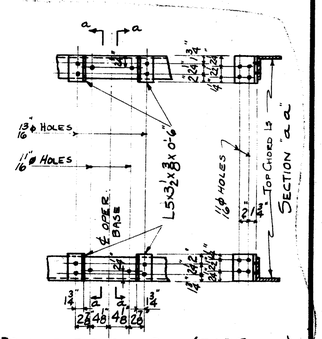












SYMBOLS:

X MECHANISM FOR GROUNDING SWITCH.
Y MECHANISM FOR LINE SWITCH.
C.F. CROSS FRAME.
L.F. LONGITUDINAL FRAME.
PLAN - ⊥ ELEVATION - RIGID INSULATOR IN SEATED POSITION.
PLAN - T ELEVATION - RIGID INSULATOR IN HUNG POSITION.
HORIZONTAL WIRE PULL.
WIRE PULL FROM VERTICAL PLATE.
WIRE PULL - NEAR SIDE.
WIRE PULL - FAR SIDE.
PLAN - ⊏ ELEVATION - LINE SWITCH.
LADDER.
THE ADDITION OF THE LETTER "U" TO ANY OF THE ABOVE SYMBOLS INDICATES A U-BOLT CONNECTION.

GENERAL NOTES:

BOLTS ⅞" ϕ HOLES 15/16" ϕ UNLESS OTHERWISE NOTED.
ALL CONNECTIONS TO BE BOLTED.
ALL STEEL TO BE GALVANIZED.
MATERIAL, GRATING AND GALVANIZING TO BE IN ACCORDANCE WITH G.4.H. SPEC. P.214.
CAMBER TRUSSES ½" PER PANEL.
ALL BOLTS TO BE P.R.R. STANDARD SPEC. 1004H WITH HEX. HEADS & NUTS.
WASHERS TO BE SUPPLIED WITH ALL BOLTS.
ALL U-BOLTS AND GUY WIRES TO BE FURNISHED BY OTHERS.
IN ADDITION TO REGULAR SHIPPING MARKS ALL STEEL IS TO BE MARKED WITH THE LETTER "BE"
CHECK NUTS ON BOLTS TO PREVENT TURNING.

REFERENCES:

132 KV ELECTRICAL ASSEMBLY	20CC-7282
FOUNDATION PLAN	20C-7277.
132 KV TYPICAL STEEL DETAILS SHEET #2	ET-399C
" " " " " " #3	ET-384C
" " " " " " #4	ET-692C
" " " " " " #5	16C-2948
" " " " " " #7	ET-401C
" " " " " " #8	ET-445C
" " COLUMN BASE DETAILS SHEET #1	16C-3133
11 KV TYPICAL STEEL DETAILS SHEET #1	ET-442C

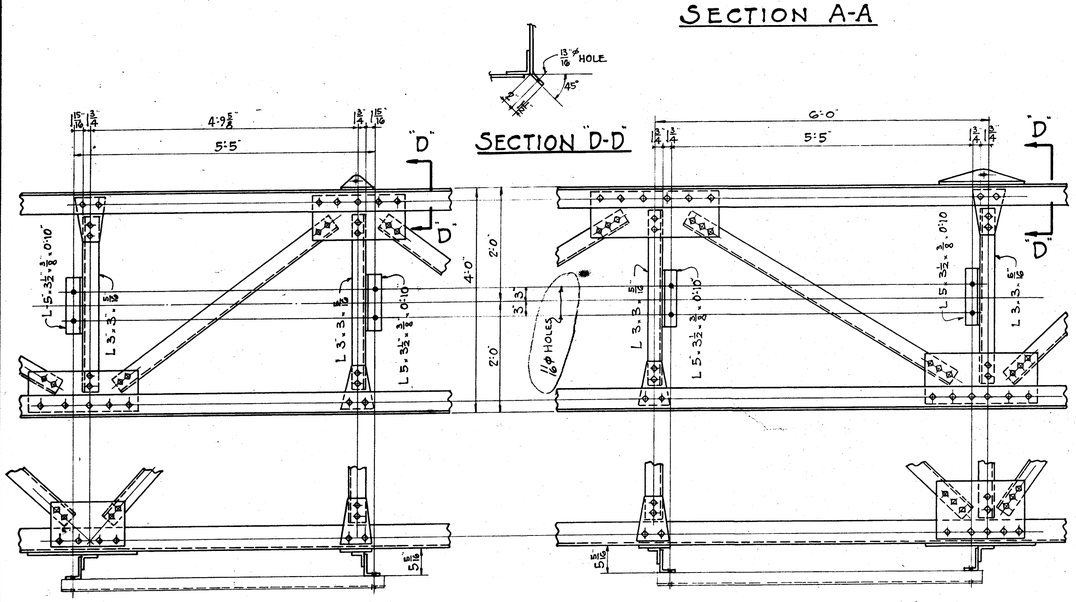
SIZE OF MATERIAL:

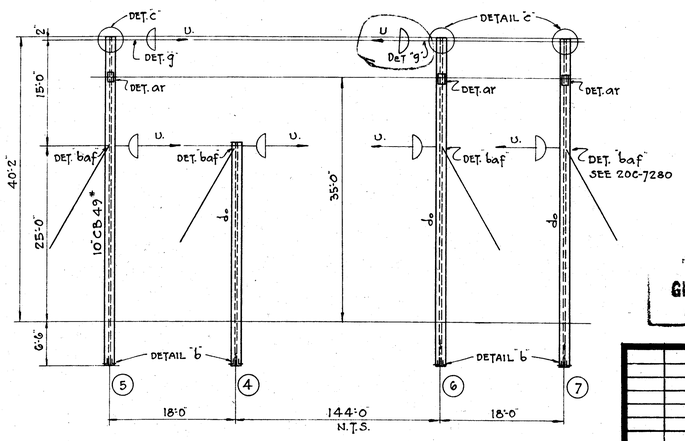
COLS. 1,2,3 — MAIN ⊏ 6" 6" ⅜" ; LACING ⊏ 2½" 2" ¼"

TRUSSES 90'-0" LONG.

PROVIDE 3 BOLT CONNECTIONS FOR 3 END PANELS:
- VERTICAL TRUSS: CHORD ⊏ 5" 5" ½" ; DIAGONAL ⊏ 3½" 3½" 5/16" ; PERPENDICULAR ⊏ 2½" 2½" ¼"
- LATERAL TRUSS: DIAGONAL ⊏ 3" 3" 5/16" ; PERPENDICULAR ⊏ 2½" 2½" ¼"

GUSSET PLATES ⅜" THICK AT COLS AND WHERE WIRE PULLS OCCUR.
AT ALL OTHER POINTS 5/16" THICK.





GIBBS & HILL CONSULTING ENGINEERS NEW YORK

ISSUE NO.	DATE	CORRECT	REMARKS
2	7-6-35	C.M.	ADDED DETAILS BG, BH, BF, & B
1	4-3-35	C.M.	FOR FABRICATION

SCALE:

20C-7282-2

ISSUED

APPROVED ENG. BRIDGES & BUILDINGS

THE PENNSYLVANIA RAILROAD
WILMINGTON-WASHINGTON ELECTRIFICATION
BENNING STEP-UP STATION
132 KV STEEL - PLANS & SECTIONS
PHILADELPHIA

C

CHIEF OF MOTIVE POWER — ELECTRICAL ENGINEER

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ELEC. CHECK: C.M. 2-15-35 J.A. 3-26-35

MADE BY: TRACED BY: KAY CHECKED