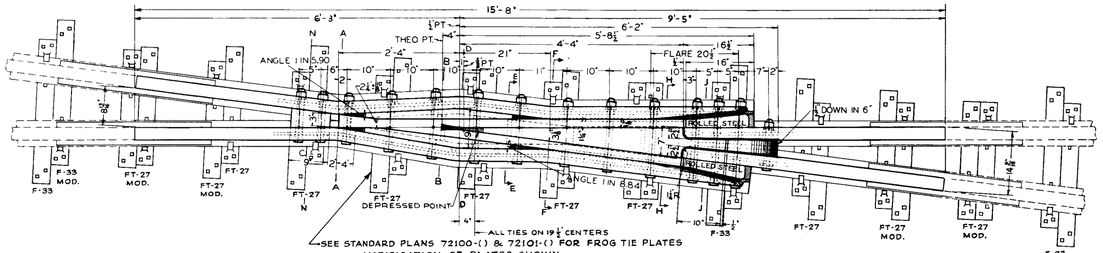
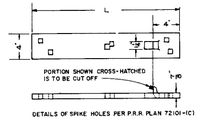
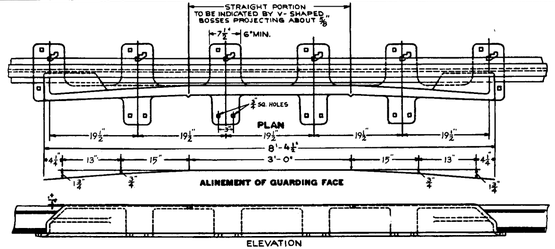




FT 27 — F 33 MODIFIED

HOOK TWIN TIE PLATES MODIFIED



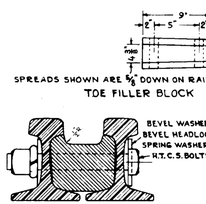
MANGANESE STEEL ONE PIECE GUARD RAIL

BILL OF MATERIAL FOR NO. 8 RAILBOUND MANGANESE FROG AND GUARD RAILS

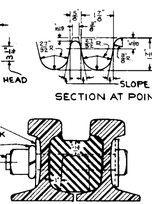
1 - RAILBOUND MANGANESE STEEL FROG COMPLETE.

13 - FT 27 } FROG TIE PLATES
9 - FT 27 MOD. - " - "
5 - F 33 - " - "
1 - F 33 MOD. - " - "

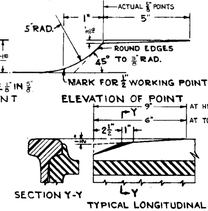
2 - 5'-4-1/2" MANGANESE STEEL ONE PIECE GUARD RAILS OR 9'-3" TEE RAIL GUARD RAILS COMPLETE WITH 12 LT. PTS.
5'-0" ONE PIECE GUARD RAIL CARBON STEEL, HOOK FLANGE DESIGN MAY ALSO BE USED.



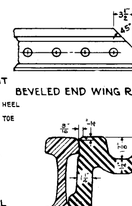
TOE FILLER BLOCK



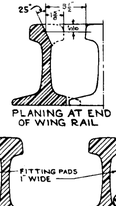
SECTION AT POINT T



ELEVATION OF POINT



BEVELED END WING RAIL



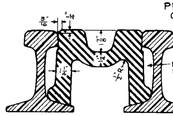
PLANING AT END OF WING RAIL

SECTION N-N

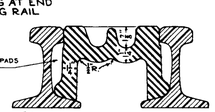
SECTION A-A

SECTION Y-Y

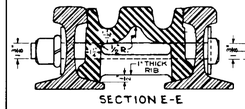
TYPICAL LONGITUDINAL SECTION AT TOE AND HEEL END OF MANGANESE



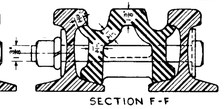
SECTION B-B



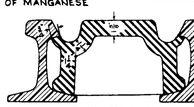
SECTION D-D



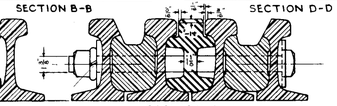
SECTION E-E



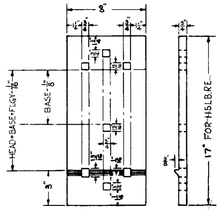
SECTION F-F



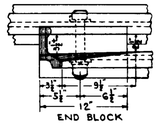
SECTION H-H



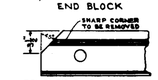
SECTION J-J



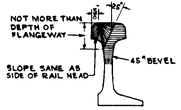
GUARD RAIL TIE PLATES



END BLOCK

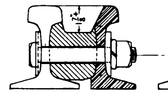


BEVELED END OF RAIL

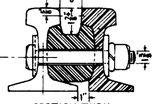


END VIEW OF GUARD RAIL SHOWING DETAIL OF DOUBLE PLANING OF FLARE

TEE RAIL GUARD RAIL

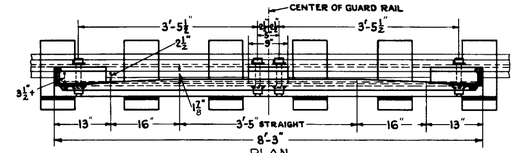


SECTION THRU END BLOCK



SECTION THRU SEPARATOR BLOCK

RAIL END DRILLINGS



NOTES

1 - THIS PLAN IS FOR USE WITH A.R.E.A. RECOMMENDED STANDARDS FOR 115 LB. RE RAIL.

2 - WORKMANSHIP AND MATERIALS, INCLUDING BEVELING AND HARDENING RAIL ENDS, SHALL BE PER CURRENT A.R.E.A. SPECIFICATIONS.

3 - PURCHASER SHALL STATE WHETHER MANGANESE STEEL ONE PIECE GUARD RAILS OR TEE RAIL GUARD RAILS WITH 12 LATS ARE WANTED.

4 - THE PLANING, 17" OR 19" FOR ONE PIECE GUARD RAIL SHOWN IS FOR ILLUSTRATION ONLY TO SHOW STANDARD MEASUREMENTS. VARIOUS EFFICIENT DESIGNS ARE AVAILABLE AND PURCHASER SHALL SPECIFY DESIGN WANTED.

5 - THE FOLLOWING MAY BE FURNISHED AS ALTERNATES TO A.R.E.A. GUARD RAILS - P.R.R. ONE PIECE 5'-1" LONG, HOOK FLANGE 8'-1" LONG AND TEE RAIL 11'-8" LONG.

6 - FLANGEWAY FILLERS SHALL BE FURNISHED WITH GROOVE AS SPECIFIED IN SECTION H-H ON PLAN 74139-(-1) TO PROVIDE CLEARANCE FOR BONDING UNLESS DESIGN OF FILLER IS SUCH THAT EQUIVALENT SPACE IS PROVIDED.

7 - ALL BOLTS IN CONSTRUCTION OF FROG AND SWITCH MATERIAL SHALL BE DIPPED IMMEDIATELY BEFORE APPLYING (SO THAT ALL THREADS ARE THOROUGHLY COATED) IN NO-OX-ID "66" GREASE, MANUFACTURED BY THE DEARBORN CHEMICAL COMPANY.

74152-A

THE PENNSYLVANIA RAILROAD
AREA STANDARD 1962
PLAN 8-62 SHEET 3

No. 8 RAILBOUND MANGANESE STEEL FROG AND GUARD RAILS

FOR 115 LB. RE RAIL

OFFICE OF CHIEF ENGINEER, PHILA., PA.

FEB. 1946

Chief Engineer

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