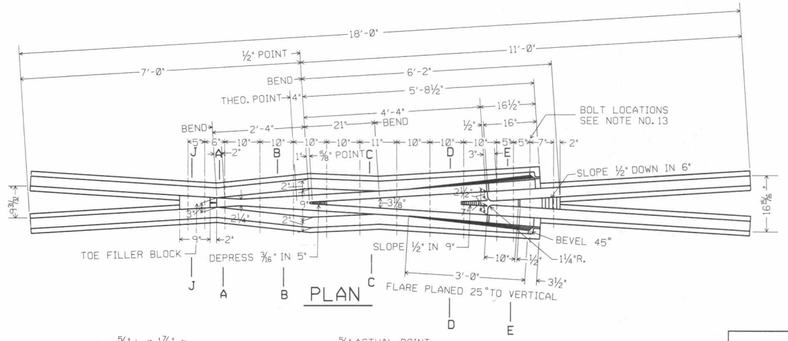
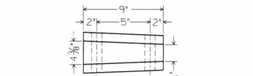
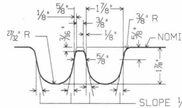
REVISIONS
B-June, 1978
C-Oct., 1980
D-May, 1986
E-May, 1987
F-Sept., 1994
(Redrawn)

FROG ANGLE = 7°-09'-10"

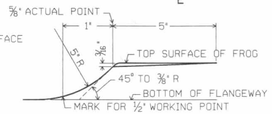




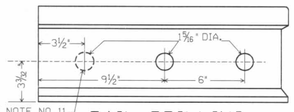
TOE FILLER BLOCK



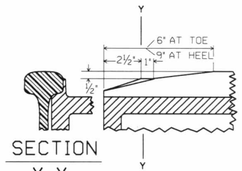
SECTION AT POINT



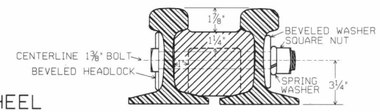
ELEVATION OF POINT



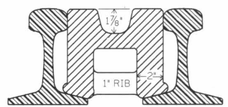
RAIL DRILLING



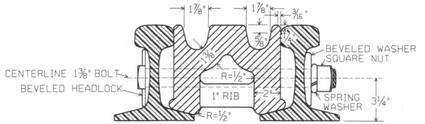
SECTION AT TOE AND HEEL END OF MANGANESE



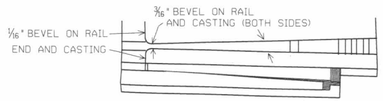
SECTION A-A



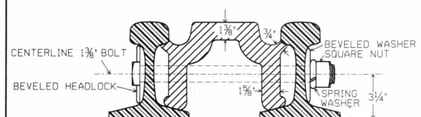
SECTION B-B



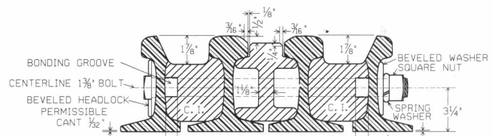
SECTION C-C



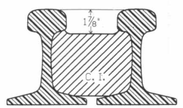
BEVEL DETAIL AT HEEL END OF CASTING



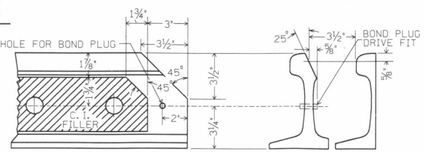
SECTION D-D



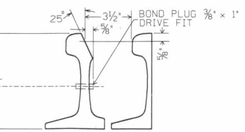
SECTION E-E



SECTION J-J



BEVELED END OF WING RAIL



PLANING AT END OF WING RAIL

NOTES

1-This Plan is for use with Conrail Specification MW 180 for 136RE rail.
2-The 136RE rail shall be per the current Conrail Plan 71016.
3-All rails shall be fully Heat Treated (Brinell 341-388).
4-Rail ends shall not be beveled, except where shown.
5-Workmanship and materials shall be per current AREA Specifications.
6-Heavy wall casting shall be per current AREA Specifications.
7-Frog center casting shall be Explosion Hardened and done prior to assembly.
8-All bolt holes in rails shall be chamfered 1/16".
9-When frog is to be used in bolted track, the first bolt hole is to be drilled in the field by Conrail.
10-The bolt holes in the heel end of the casting for heel rails, wing rails and fillers shall be cored 1 3/16" diameter. All other holes cored in the casting can be round or elongated.
11-Drilling of bolt holes in the toe end of the wing rails and both ends of the heel rails shall not be permitted through the stamping on a rail.
12-Frog bolts shall be square head, Hi-Tensile, heat treated steel, Grade 5, 1⅜" diameter with ASAH square nuts, headlocks, washers and AREA spring washers.
13-For bolt lengths see the current Conrail Plan 71501.
14-Frog bolts must be of proper length for each location throughout the frog. After torqueing of the bolt, between ½"-1¼" of the bolt should extent beyond the face of the nut. Burning or cutting the bolt to size will not be permitted.
15-Frog bolt nuts shall be tightened to 1650 Ft. Lbs. +/- 50 Ft. Lbs. with dry threads.
16-For the location of Swivel Shoulder Frog Plates see the current Conrail Plan 73184.
17-The weight of the frog is 2852 Lbs.
18-The Item Number is 01-332715 for standard length.

CONRAIL

74160-F

STANDARD
NO. 8 RAILBOUND MANGANESE
STEEL FROG
136-RE
DECEMBER, 1977

W. L. Heide
DIR. - STANDARDS & TRACK ANALYSIS

CHIEF ENGINEER

FROGS 177684:11.5040, 245809:10.7350