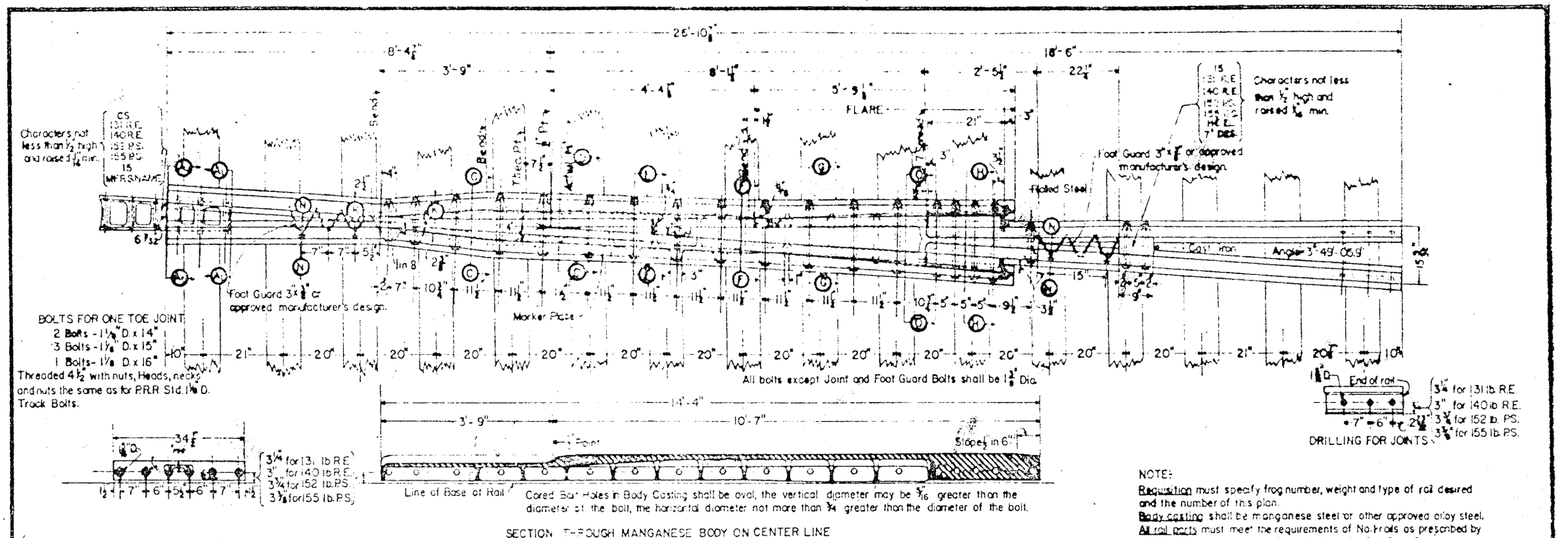

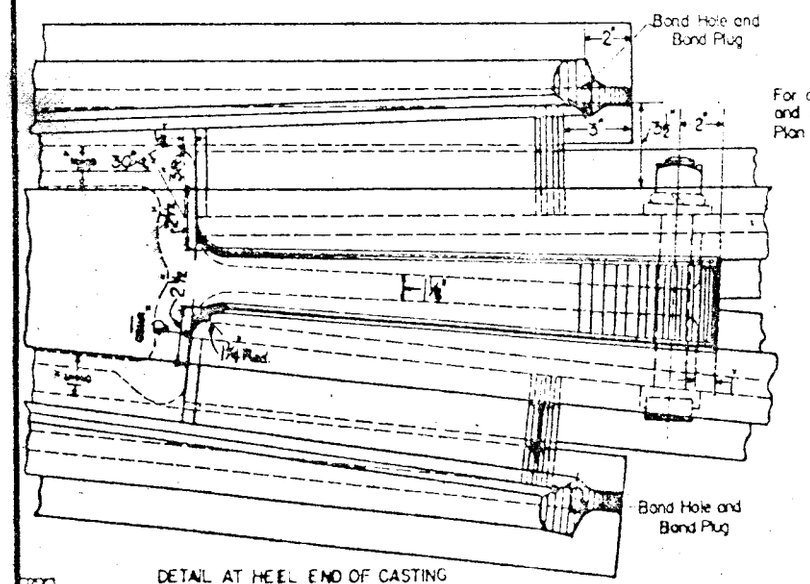

DETAIL AT HEEL END OF CASTING

The steel of manganese steel castings shall conform to the following requirements as to chemical composition:

Carbon, per cent	1.00-1.30
Manganese, Min., per cent	12.00
Silicon, Max., per cent	2.00
Phosphorus, Max., per cent	0.10
Sulphur Max., per cent	0.05

A copy of the analysis of the manganese steel with test drillings shall be furnished by the manufacturer to the P.R.R. inspector.

NOTE:

Requisition must specify frog number, weight and type of rail desired and the number of this plan.

Body casting shall be manganese steel or other approved alloy steel.

All rail parts must meet the requirements of No. 1 rails as prescribed by The Pennsylvania Railroad Specifications for O.H. Steel Rails excluding "X" rails. Arm ends are not to be canted.

All bolts shall be dipped immediately before applying (so that all threads are thoroughly coated) in NO-OX-ID GG grease, manufactured by The Dearborn Chemical Company.

A Marker Plate of malleable iron or other approved metal, showing in raised characters, the name of the manufacturer and weight and type of rail, and in raised or deeply cut characters, the frog number and mid month of quarter and year manufactured, shall be securely fastened to each frog in the position as indicated on this plan. The characters on the plate shall be not less than 1/2" high.

Toe Joint Block shall be cast steel, Class B-Hard according to A.R.E.A. Specifications.

Sections and other details shall be in accordance with Standard Plan 74149-( )

74142-A

THE PENNSYLVANIA RAILROAD
STANDARD

NO. 15 RAIL BOUND MANGANESE STEEL FROG WITH 7" MANGANESE HEEL END

FOR 131 AND 140 LB. R.E., 152 AND 155 LB. PS. RAILS

OFFICE OF CHIEF ENGINEER, PHILA., PA., SEPTEMBER, 1935

J. R. Hunt
Chief Engineer