

## NORTH AUCKLAND MAIN TRUNK RAILWAY.

A tender has been accepted for a land-plan survey between 88 m. 48 ch. and 92 m. 52 ch.

Trial lines have been surveyed north of McCarroll's Gap to 104 m. 40 ch., and plans prepared.

A reconnaissance survey has been started from Kaiwaka to Waipu.

Two alternative trial surveys were made between 102 m. and 114 m. 11 ch., and plans made. Plans of the permanently pegged section between 114 m. 11 ch. and 122 m. have also been prepared. In January, 1914, the pegging of the selected route backwards from 114 m. 11 ch. was put in hand, and is completed back to 104 m. 70 ch.

## WAIUKU BRANCH RAILWAY.

Thirty-one miles of trial lines were surveyed, and 9½ miles of permanent line pegged, and plans, &c., prepared. Numerous borings were taken at the principal cuttings and culvert-sites.

A plan for proclamation purposes is being prepared.

## EAST COAST MAIN TRUNK RAILWAY.

*Gisborne-Motu.*—A permanent survey was made, and plans prepared, from 49 m. (Kowhai Road) to 52 m. 30 ch., an extension of the permanent line to Motu Township.

*Gisborne-Napier (North End).*—Permanent survey and deviation of the located line have been in hand between 11 m. and 20 m., and a good deal of repegging and boring has been done.

*Gisborne-Napier (South End).*—A survey was made and cross-sections taken at a bluff near 0 m., to obtain information as to the quantity of material available at this place for the Inner Harbour embankment.

An amended centre-line has been pegged between 0 m. and 2 m., and plans, &c., prepared.

## STRATFORD—MAIN TRUNK RAILWAY.

*West End.*—Plans of the completed line from Pohokura to Whangamomona have been prepared.

The permanent line has been surveyed from 47 m. 29 ch. to 49 m. 48 ch., and ranged out to 50 m. 60 ch. This survey has been suspended, and the party transferred to the Opunake Branch.

## TE ROTI—OPUNAKE—MOTUROA RAILWAY.

Various trial surveys have been made, and the permanent line has been located to Opunake, and onwards to 34 m. 70 ch., in the direction of Moturoa. Trial lines have also been run in connection with the Stratford-Kaponga and Kapuni-Manaia proposals. The total length of trial line on all routes is 33 m. 14 ch., and of permanent surveys 40 m. 41 ch.

## MOUNT EGMONT BRANCH RAILWAY.

Extensive trial surveys have been carried out in connection with the proposed water-supply to the "Top" Station.

## NORTH ISLAND MAIN TRUNK RAILWAY.

*Raetihi Branch.*—The permanent survey has been completed.

## SOUTH ISLAND MAIN TRUNK RAILWAY.

*North End.*—The field operations in connection with the Kekerangu Section have not been extended during the year, but plans of the trial line from 60 m. to 62½ m. (including a comprehensive survey of the large slip about 61 m.) have been completed.

*South End.*—On the Conway Section trial plans and estimates for various routes were prepared.

## CULVERDEN—WAIKOU RAILWAY.

This line was permanently located, and plans and estimates prepared.

## WAIMATE BRANCH EXTENSION.

The survey of this extension was put in hand, and trial work for 5 miles practically completed. The first mile has been permanently located and plans prepared.

## FEATHERSTON—MARTINBOROUGH RAILWAY.

This line, 11 m. 50 ch. in length, was surveyed, and plans and estimates prepared.

## CATLIN'S—WAIMAHAKA RAILWAY.

*Catlin's End.*—Land-plan surveys, Papatowai and Tahakopa Sections, were carried out under contract.

## LAWRENCE—ROXBURGH RAILWAY.

The land-plan survey was completed from Big Hill to Beaumont.

## BALCLUTHA—TUAPEKA MOUTH RAILWAY.

A trial survey of this line was commenced in May, 1913, and completed in February, 1914, the distance being about 23 miles, also from 0 m. on the branch to Stirling Station yard. The trial-line plans are nearing completion.

In connection with this line a road-deviation, about 3½ miles long, has been surveyed, where the railway will interfere with the existing road.