

## **SECTION 19**

# **GEO TECHNICAL INFORMATION**

## **19 GEOTECHNICAL INFORMATION**

### ***19.1 GENERAL***

Foundation test bores are taken at bridge sites in nominated locations to establish both the type and strength of the foundation material. The information obtained from the test bores is shown on either a "NON-CORE DRILL HOLE GEOLOGICAL LOG" or a "CORED DRILL HOLE LOG" sheet which is prepared by the drilling contractor.

The cover sheet for all bridge drawings that will become the property of the Authority, whether prepared by the Bridge Section or by Consultants, shall cross-reference the geotechnical reports on which the design is based and a cross-reference to the bridge drawings (including Registration Number) shall be placed on the geotechnical report.

### ***19.2 MINIMUM EXTENT OF GEOTECHNICAL INVESTIGATION***

Unless otherwise specified by the Authority, the minimum number of boreholes for bridge foundations shall be one borehole for each pier and one for each abutment. For twin bridges, these requirements shall be for each bridge.

### ***19.3 BRIDGE CONSTRUCTION CONTRACTS INVITED BY THE AUTHORITY***

Geotechnical information, in the form of a report, is supplied to the Contractor as part of the Contract Documents.

No geotechnical information, except the cross-reference to the geotechnical report detailed in Clause 19.1 above, shall be recorded on the drawings.

### ***19.4 BRIDGE CONSTRUCTION AS PART OF DESIGN CONSTRUCT MAINTAIN PROJECTS***

The provisions of Clause 19.1 and 19.2 are applicable.

Although the Authority may make available to the Contractor results of any preliminary geotechnical investigation that may have been undertaken at the project site, the Contractor is responsible for undertaking geotechnical and foundation study for each structure in the project sufficient to provide all information for design and construction of the structure.

A separate geotechnical report containing all information obtained from bore holes, including all test results, recommendations for types of foundations and design values for the design of foundations, shall be prepared and provided for the Authority's review.

The locations of boreholes may be shown on the Plan view on the General Arrangement drawing, if preferred.