

- B. The Contractor shall control that the datum for survey is that established by DMAT.
- C. The Contractor shall protect the survey control points prior to starting site work; he shall preserve permanent reference points during fieldwork.
- D. The Contractor shall promptly report to Engineer the loss or destruction of any reference point or relocation required because of changes in grades or other reasons.
- E. The Contractor shall replace dislocated survey control points based on original survey control. He shall not make changes without prior written notice to Engineer.

### **8.1.7 Survey Requirements**

- A. The Contractor shall provide field-engineering services. He shall utilize recognized engineering survey practices.
- B. The Contractor shall establish at approved locations, permanent bench marks on site using AISI 316 S31 stainless steel plates, referenced to established control points. He shall record locations, with horizontal and vertical data, on project record documents.
- C. Any delay or loss resulting from errors in the setting out of the Works will be not accepted.
- D. The Contractor shall provide all assistance, which the Engineer may require, for checking setting out and for taking measurements of the Works, including labour, equipment and transportation.
- E. Setting out shall be approved by the Engineer before commencing the Works, but such approval shall in no way relieve the Contractor of his responsibility for the correct execution of the Work.

### **8.1.8 Surveys for Measurement and Payment**

- A. The Contractor shall perform surveys to determine quantities of work, including control surveys to establish measurement reference lines. He shall notify to the Engineer prior to starting work.
- B. The Contractor shall verify all measurements for their correctness.