

***INCLUDE IN ALL TENDERS THAT REFERENCE:***

- ***AMENDMENT AMC\_CS53.2 Amendment to Specification 1.2, General, Re: Construction Staking and Survey - Majority by Consultant; AND***
- ***GENERAL SPECIFICATIONS, EDITION 16, 2019***

**1.4 AMENDMENT TO SPECIFICATION 1.2, GENERAL, RE: CONSTRUCTION STAKING AND SURVEY - MAJORITY BY CONSULTANT**

The following is added before the first paragraph of Section 1.2.50, STAKES, MARKS AND ENGINEERING TESTS:

Stakes or marks will be set by the Consultant to define the location, alignment, elevation, and grade required for the Work. The Contractor shall give the Consultant a minimum of 24 hours notice of the time and place where the stakes or marks will be needed. The Contractor shall protect, and shall not remove or destroy or permit to be removed or destroyed, the stakes or marks placed on or about the Work by the Consultant.

The Contractor shall satisfy himself before commencing the Work as to the correctness and meaning of all stakes and marks.

Initially, the Consultant will provide complete baseline survey stakes at 30 m intervals which show offsets and metric station numbers or kilometre chainages that correspond to the control section. Additional baselines may be warranted depending on the complexity and terrain of the project. At least one baseline will note elevations above or below the shoulder grade. Work stakes will indicate the design backslope and/or sideslope cut and fills offset left and right of centerline.

The Consultant will stake offset hubs to mark curb and gutter at a maximum 10 m interval with noted elevations above or below the lip of gutter.

Culvert locations will be staked by the Consultant by placing stakes at the location of culvert ends, placing offset hubs referencing alignment and invert elevations, and noting the sizes, lengths and design slopes.

Bridge fills will be staked by the Consultant in accordance with the applicable standard drawing(s).

The Contractor shall perform any further required survey to complete and prepare the roadway for final grade stakes.

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When the Contractor determines that the roadway is sufficiently completed and prepared for final grading, he shall request that the Consultant provide final grade stakes. The Consultant will provide a maximum of two sets of final grade stakes.

For granular base course construction the Consultant shall provide subgrade shoulder stakes, gravel spread stakes for each lift of construction and superelevation stakes for horizontal curves. For paving construction, the Consultant shall provide centerline nails for each lift of pavement, edge of pavement markings for non-standard cross-sections, tapers and intersection radi for each lift of pavement and superelevation stakes for horizontal curves

Notwithstanding these provisions the Contractor shall perform at his own cost, any survey related activities as required and including, but not limited to, the following:

- Layout for interim lane markings, including those for intersection treatments
- String line or other markings for the alignment or grade control of construction equipment