

GRID-TO-GROUND SURVEY APPLICATION

SUMMARY

This design bulletin is issued as an amendment to Section 6.1.4 "Preliminary Survey" as contained in the "Engineering Consultant Guidelines for Highway and Bridge Projects - Volume 1 - Design and Tender" (ECG Vol 1).

In Section 6.1.4.1 "General Requirements", in the second paragraph replace the sentence: "All surveys are to be tied to the Alberta Survey System NAD83 3TM Coordinates and survey closure accuracy shall be as follows:" with the following:

All surveys shall be referenced to the Alberta Survey System, NAD83, 3TM Grid coordinate system. All plan measurements shall be stated in ground distance derived from 3TM Grid coordinates and in accordance with the following:

- *The Combined Factor shall be established, at a minimum for each P.I. in the project;*
- *Coordinate information along with the Combined Factor information shall be clearly stated on drawings.*

Alberta Infrastructure and Transportation will provide software for the 3-Degree Transverse Mercator Combined Factor Calculation (Grid to Ground Calculation). This application can be obtained from the Department's web page under "Survey Data" at the following web address:

[ftp://tsbftp:Srg4Tfh@www.tu.gov.ab.ca/Shared/Data/Grid to Ground/](ftp://tsbftp:Srg4Tfh@www.tu.gov.ab.ca/Shared/Data/Grid_to_Ground/)

Survey closure accuracy shall be:

IMPLEMENTATION OF BULLETIN

This bulletin is effective immediately on the following consultant assignments:

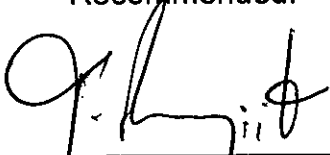
- all future highway, bridge and water management projects;
- On all existing projects where the design work has not yet been started;
- On selective projects, as determined by the project sponsor, where the design work is already in progress.

On those projects where the design work is already in progress and the project sponsor directs the grid-to-ground conversion, the Department will accept reasonable fee increase requests associated with the implementation of the grid-to-ground conversion.

CONTACTS

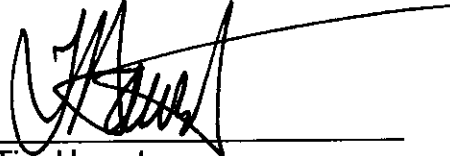
Any questions with regard to this Design Bulletin should be directed to Stu Harper, Survey/Imagery Coordinator at (780) 415-1054.

Recommended:



Ranjit Tharmalingam
Director, Professional Services

Approved:



Tim Hawnt
Executive Director, Program
Management Branch