Determinaton of Coordinates for
the Establishment of the NE 33 and the SE 04
for Townships Abutting a Correction Line in
Unsurveyed Territory

Operations Division

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The following information explains how the Director of Surveys Office determines coordinates for the establishment of the NE 33 and the SE 04 for townships that abut a correction line in unsurveyed territory. Any questions and/or comments may be directed to the Director of Surveys Office at DirectorofSurveys@gov.ab.ca.

The following explanation refers to Figure 1 below.

1. From the E ¼ 33 (south of the correction line), produce a line astronomic north and intersect it with a line produced astronomic east from the E1/4 04. The intersected point is 'A'.
2. From the E1/4 of 04 (north of the correction line), produce a line astronomic south and intersect it with a line produced astronomic west from the E1/4 33. The intersected point is 'B'.
3. Determine the coordinates of the midpoint between the E ¼ 04 and A. Call this point 'C'.
4. Determine the coordinates of the midpoint between the E1/4 33 and B. Call this point 'D'.
5. Inverse between C and D, take out 1.5 chains (99 feet) for the road allowance at the correction line, and split the remaining distance in two equal parts. Call this distance XX. From point D on line DC, determine the coordinates of point F (on southerly limit of correction line) using the distance XX.
6. Similarly, compute the coordinates of point E (on northerly limit of correction line) on line CD using distance XX.
7. From point E produce a line west to intersect the astronomic south line (produced from the E ¼ 04) at a 90 degree angle. The intersection thus establishes the SE corner of Section 04 on the north side of the correction line.
8. Similarly, determine the coordinates of the NE 33 on the south side of the correction line by producing a line east from point F to intersect the astronomic north line (produced from E1/4 33) at a 90 degree angle.

Figure 1