



*A member
of the
Canadian
Council of Land
Surveyors*

G O O D P R A C T I C E R E S O L U T I O N S — A P R I L 1 9 7 7

1. It shall be considered good practice in establishing a section or quarter section corner from a witness monument to proceed as follows:

The said corner shall be defined by producing the line through the witness monument from the nearest monument on the same side of the witnessed corner. The corner in question shall be placed at the distance indicated for the witness monument.
2. It shall be considered good practice in the surveying of roads or other rights of way across sections in which either quarter line has been run to make an intersection with the surveyed quarter lines and to plant an iron post to define the said point of intersection.
3. It shall be considered good practice, in the surveying of roads or other rights of way which run parallel and/or adjacent to established road allowances, to proceed as follows:
 - (a) If the limit of the right of way being posted is more than 30 metres from the posted boundary of the road allowance, then it shall be necessary to make an actual intersection with each surveyed line crossed.
 - (b) Where the limit of the right of way is 30 metres or less from the surveyed section line, said intersection may be made by an offset from the section line being paralleled. The bearing of the offset may be left to the discretion of the surveyor, but it is to be shown on the plan.
4. It shall be considered good practice, prior to registration of a subdivision plan, to plant 1 centimeter square iron bars not less than 50 centimeters long at the corners of each lot in a subdivision, excepting those lot corners which must be posted with Statutory Iron Posts under the provisions of the Alberta *Land Surveys Act*. The plan of survey shall have included in the legend a note stating that these iron bars have been established at all lot corners.
5. It shall be considered good practice when preparing plans of survey, to include on said plans notes with regard to the condition of monuments, and other data such as the position of iron posts with relation to corner fence posts.
6. It shall be considered good practice to show all calculated distances on plans in black followed by the abbreviation "(calc.)".
7. It shall be considered good practice when re-establishing lost corners in accordance with The Alberta Surveys Act, that due weight be given to the bearings as shown on the official or registered plan.
8. It shall be considered good practice to show on the plan of survey ties to iron posts placed at section or quarter section corners established from secondary evidence such as fence corners so that the position of that corner can be ascertained in relation to some supporting physical evidence on the ground.
9. It shall be considered good practice to obtain closure errors not exceeding 1 in 5000 in the surveyor's own work or 1 in 2500 in closing with section lines. In the event that in closing on older surveys this maximum is exceeded, sufficient information should be obtained to verify all new measurements taken.
10. It shall be considered good practice to show on a plan of survey:
 - (a) All linear measurements of less than five hundred feet to an accuracy of five hundredths of a foot and those exceeding five hundred feet to an accuracy of one-tenth of a foot.
 - (b) All angular measurements to the nearest minute of arc unless greater accuracy is required to clarify a particular point.
11. It shall be considered good practice on surveys of roads or other rights of way which may terminate within the interior of a section to tie the terminal monument to some other known point in such a manner that a closure may be obtained from information shown on the plan.

12. It shall be considered good practice to place a note on the plan of survey describing the method used in establishing lost corners if the method is not otherwise clearly evident.
13. It shall be considered good practice, when conducting a right of way survey, to place iron posts in addition to those required by The Alberta Surveys Act, at intermediate points (preferably hilltops) such that any two consecutive points be intervisible and the distance between any two does not exceed one thousand metres.
14. It shall be considered good practice, when conducting a survey which requires the establishment of a boundary of an unposted railway right of way by accepting centre line of tracks at an end of curve or at a section line, to place an iron post on that tangent about 30 metres away from the end of curve or section line and -to tie the said iron post or posts to the survey being conducted so that the position accepted may be ascertained during subsequent surveys.
15. It shall be considered good practice, when establishing a boundary of an unposted railway right of way, the centre line of which is shown on the filed plan to be a spiraled curve, to replace the spiral with a compound curve in accordance with the following data:

Curve Data from Railway Plan					Replacement Curve Data
Degree and Radius of Central Curve	Length of Spiral	Spiral Angle	Delta of Replacement Curve	Replacement Curve Radius	Degree and Radius of Central Curve
2° 2864.9	180 168 120	1° 48' 1° 40' 1° 12'	1° 48' 1° 40' 1° 12'	3819.8 4331.2 3819.8	2° 2864.9
2° 30' 2292.0	210 200 150	2° 37.5' 2° 30' 1 ° 52.5'	2° 37.5' 2° 30' 1 ° 52.5'	3055.7 3359.2 3055.7	2° 30' 2292.0
3° 1910.1	240 234 180	3 ° 36' 3° 30' 2° 42'	3 ° 36' 3° 30' 2° 42'	2546.6 2765.7 2546.6	3° 1910.1
3° 30' 1637.3	270 204 210	4 ° 43.5' 3° 30' 3° 40.5'	4 ° 43.5' 3° 30' 3° 40.5'	2182.9 2412.2 2182.9	3° 30' 1637.3
4° 1432.7	300 231 240	6° 00' 4° 40' 4° 48'	6° 00' 4° 40' 4° 48'	1910.1 2024.7 1910.1	4° 1432.7
4° 30' 1432.7	300 264 270	6° 45' 6° 00' 6° 04.5'	6° 45' 6° 00' 6° 04.5'	1697.9 1786.0 1697.9	4° 30' 1432.7
5° 1146.3	300 248 300	7° 30' 6° 00' 7° 30'	7° 30' 6° 00' 7° 30'	1528.2 1677.2 1528.2	5° 1146.3
5° 30'	300	8° 15'	8° 15'	1389.3	5° 30'

1042.1	279 330	7° 30' 9° 04.5'	7° 30' 9° 04.5'	1499.7 1389.3	1042.1
6° 955.4	300 310 360	9° 00' 9° 10' 10° 48'	9° 00' 9° 10' 10° 48'	1273.6 1357.2 1273.6	6° 955.4

16. It shall be considered good practice, when planting statutory iron posts in cultivated fields, to counter sink these posts below the depth of normal cultivation. When this is done or if posts are not planted in the ordinary way, a notation should be a notation on the plan of survey to that effect.
17. It shall be considered good practice; when conducting road or right-of-way surveys that intersect surveyed section or quarter section lines, to make the intersection by using the nearest section or quarter section corners on each side of the point of intersection. If the monuments at these corner are lost, they should be re-established giving due consideration to all available evidence.
18. It shall be considered good practice in the conduct of a right-of-way survey to reference the statutory iron posts planted on the limit thereof with marker posts or bearing trees. In the unsettled or forested areas of the province, a marker post or at least three bearing trees shall be used to reference each statutory iron post. In the settled areas a marker post shall be placed to reference each iron post on fence line; tree lines or in any situation where the marker post would not interfere with normal agriculture operations. The position of the marker posts or bearing trees with respect to the iron posts shall be clearly shown on the plan of survey.