







Radii and Tangent Table

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Approach Speed R ₁	R ₁	Tangent Between Curves	Approach Speed R ₂	R ₂
20 mph	90 f†	90 ft	20 mph	90 ft
30 km/h	27m	27m	30 km/h	27m
30 mph	230 ft	130 ft	30 mph	230 ft
50 km/h	70m	40m	50 km/h	70m
40 mph	460 ft	175 ft	30 mph	230 ft
60 km/h	140m	53m	50 km/h	70m
50 mph	620 ft	220 ft	30 mph	230 ft
80 km/h	189m	67m	50 km/h	70m

NOTES:

- 1. Trees should not be planted within Clear Vision areas and Clear Zones.
- 2. An angle of intersection between the mainline and crossroad should be 90° However an angle of intersection between 75° and 105° is acceptable.
- 3. Tree planting of coniferous trees should be made in accordance with the tree planting guide to screen the old pavement alignment.
- 4. Clear vision areas as per Geometric Design Guide GEO-300-Series, should be provided at all intersections.
- 5. Approaching grades at the intersecting roadways should be as flat as practical, especially on the sections that are used for storage space. Grades between 2 and 3 percent are desirable. See Geometric Design Guide GED-650-Series for further guidance.
- 6. Adequate intersection sight distance should be provided along both roadways.
- 7. Consult the Geometric Design Unit of Lansing Traffic and Safety where modifications are needed.
- 8. Intersection approach grades should be studied to provide adequate landing areas for adequate sight distance.
- 9. The rate of superelevation for the approaching curve should be limited to 5% maximum.