GUIDELINES FOR VERTICAL ALIGNMENT

STREET TYPE Urban or Rural	Minimum Grade %	Maximum Grade %
Local	0.6	8
Collector	0.5	6
Arterial	0.5	5

Vetical Curves:
Vertical curves are generally not required when the maximum algebraic grade difference is less than or equal to 1.5% for local streets and 1% for collector and arterial streets.

INTERSECTION GRADING

T-Intersections:
At T-intersections the 2% pavement crossfall on the through roadway shall be maintained through the intersection. The crown and crossfall on the intersecting roadway shall match the projected gutterline pavement elevation of the through roadway.

4-Leg Intersections:
For intersections where local streets intersect with collector or arterial streets (i.e. through roadways) the same guideline shall apply as indicated for T-intersections. This is to eliminate the "hump" effect that would be experienced by vehicles travelling through the intersection on the through roadway if the crowns of the intersecting roads were matched. This guideline is also desirable but not mandatory for interesctions where both roads are local streets. For intersections where both roads are local streets. For intersections where both roads are either arterial or collector streets, a minimum crossfall and crown shall be maintained on all approaches. The amount of crossfall shall be determined by the designer in order to minimize the hump effect in both directions.