

Table 721.02 – Design Requirements Based on Roadway Classification

Functional Classification	Country Lane	Local Roadway	Urbanized Local Roadway	Minor Collector	Major Collector	Minor Arterial	Major Arterial
AASHTO Classification	Special Purpose	Local Rural	Special Purpose	Rural Collector	Rural Collector	Rural Arterial	Rural/Urban Arterial
Average Daily Traffic (ADT - one way trips*)	Not more than 100	101-1000	Not more than 1000	1001-2500	2501-5000	5001-15000	More than 15,000
Design Speed (mph)	25 mph	25 mph	25 mph	35 mph	45 mph	55mph	**
No. of Travel Lanes	2	2	2	2	2	4	**
Turn Lanes	No	No	No	**	**	**	**
Min. ROW Width (ft)	50	60	40	60	80	100	**
Building Setback (ft)	25	25	25	25	50	50	50
Width of Travelway (ft)	18	20	18	22	24	48	**
Width of Shoulders (ft)	2	4	2	5	6	8	**
Minimum Centerline Radius (ft)	200	300	200	375	675	975	**
Min. Tangent Length between Reverse or Compound Curves (ft)	50	100	50	150	300	500	**
Min. Radius for Edge of Pavement at Intersections (ft)	25	25	25	25	25	25	**
Intersection Street Angle Range (degrees)	80-100	80-100	80-100	80-100	80-100	80-100	**
Max. Grade (%):	11	11	10	10	9	8	**
Min. Street Centerline offset at Adjacent Intersections (ft)	110	125	110	125	125	125	**
Min. Stopping Sight Distance (ft)	175	175	175	250	350	550	**
Min. Intersection Sight Distance (ft)	250	250	250	350	450	550	**
Ditch Foreslope Grade	4:01	4:01	4:01	5:01	5:01	6:01	**
Ditch Backslope Grade	3:01	3:01	3:01	4:01	4:01	4:01	**
Min. Cul-de-sac ROW/ Pavement Radius (ft)	70/45	70/45	70/45	70/45	N/A	N/A	N/A
Min. “T” End ROW/ Pavement Length (ft)	80/65	80/65	80/65	N/A	N/A	N/A	N/A
Min. “T” End ROW/ Pavement Width & Radius (ft)***	40/20	40/20	40/20	N/A	N/A	N/A	N/A
Min. Lot Frontage (ft)	30	50	30	100	150	150	150
Min. Drive Spacing (ft)	50	50	50	75	120	120	120

Notes:

All residential driveways shall be constructed a minimum of 5 ft. from edge of property line or easement line.
 All commercial driveways shall be constructed a minimum of 15 ft. from edge of property line or easement line.
 * ADT shall be based on an average of 10 one-way trips per dwelling unit per day for residential lots. ADT calculations for commercial or other lots shall be approved by the Department on a case-by-case basis.
 ** Noted elements shall be approved by the County Engineer on a case-by-case basis.
 *** “T” End Designs must conform to minimum AASHTO Standards
 AASHTO – American Association of State Highway and Transportation Officials.
 Building Setback – Minimum building setback, in feet, applicable to each side of the roadway.