

**LAW-52-21.52****118119****US-52****8/22/2023**Completed by: **ARW****Roadway Design Criteria****LJB Inc.**

Geometric Elements	Criteria Threshold	Reference/Comments
General		
Functional classification	Principal Arterial	ODOT Functional Classification Listings
Design speed	55	Design Designation & Scope of Services
Design year	2044	Certified Traffic
Design year ADT		Certified Traffic
Sight Distance		L&D Section 201
Stopping	495	L&D Figure 201-1E
Intersection (left turn)	610	L&D Figure 201-5E
Intersection (right turn)	530	L&D Figure 201-5E
Decision	1030	L&D Section 201.5 & Figure 201-6E
Horizontal Alignment		L&D Section 202
Max. deflection with no curve	1° 00'	L&D Figure 202-1E
Max. degree of curvature (min. radius)	5° 30'	L&D Figure 202-2E
Spiral curve required	3° 45'	L&D Section 202.5 & Figure 202-11E
Lane drop taper	WS	L&D Section 301.1.4
Lane add taper	50	L&D Section 301.1.4
Minimum lateral clearance	10' RT, 4' LT	L&D Figure 302-1E-3E
Superelevation		L&D Section 202.4
Max. curvature without superelevation	0° 39'	L&D Section 202.4.3 & Figure 202-3E
Maximum rate	6.0%	L&D Figure 202-7E - 10E
Transition (G Rate)	213	L&D Figure 202-4E, 5E, & 6E
Position	Center	L&D Figure 202-5E
Vertical Alignment		L&D Section 203
Maximum continuous grade	5%	L&D Figure 203-1E
Minimum continuous grade	0.50%	L&D Section 203.2.2
Max. grade breaks w/o vertical curve	0.40%	L&D Figure 203-2E
Min. rate of vertical curvature (crest)	114	L&D Figure 203-3E
Min. rate of vertical curvature (sag)	115	L&D Figure 203-6E
Minimum vertical clearance	N/A	L&D Figure 302-1E-3E

Roadway Design Criteria

[illegible]