

**LOUISIANA DEPARTMENT OF TRANSPORTATION AND DEVELOPMENT
DESIGN STANDARDS FOR ARTERIAL ROADS AND STREETS**

Item No.	Item	Rural				Urban ¹	
		Two Lane		Four Lane		UA-1	UA-2
		RA-1	RA-2	RA-3 ²	RA-4		
1	Design Speed (mph)	60	70	60	70	40	45
2	Design Hourly Volume	0-600 ³	0-600 ³	601-2300	601-2500	N/A	N/A
3	Level Of Service	B	B	B	B	C ⁴	C ⁴
4	Number Of Travel Lanes	2	2	4 ⁵	4 ⁵	2Min-4Typ.	2Min- 4Typ.
5	Width Of Travel Lanes (ft)	12	12	12	12	11 to 12	12
6	Width Of Parking Lanes (Where Used) (ft)	N/A	N/A	N/A	N/A	10 to 12	10 to 12
7	Width of Shoulders (Where Used) (ft)						
	(A) Outside	8-10	10	10	10	N/A	N/A
	(B) Median	N/A	N/A	6 ⁶	6 ⁶	N/A	N/A
8	Type Of Shoulders	Paved	Paved	Paved	Paved	N/A	N/A
9	Width of Median (ft)						
	(A) Depressed	N/A	N/A	40 - 60	60	N/A	N/A
	(B) Raised	N/A	N/A	N/A	N/A	4 - 30	4 - 30
	(C) Two Way Left Turn Lanes	N/A	N/A	N/A	N/A	11-14	11 - 14
10	Width of Sidewalk(Where Used)(Offset from Curb)(ft)	N/A	N/A	N/A	N/A	4	4
	Width of Sidewalk(Where Used)(Adjacent to Curb)(ft)	N/A	N/A	N/A	N/A	6	6
11	Fore Slope - Ratio	6:1	6:1	6:1	6:1	3:1 - 4:1	3:1 - 4:1
12	Back Slope - Ratio	4:1	4:1	4:1	4:1	3:1	3:1
13	Pavement Cross Slope (ft per ft) ⁷	0.025	0.025	0.025	0.025	0.025	0.025
14	Stopping Sight Distance (ft) ⁸	525-650	625-850	525-550	625-850	275-325	325-400
15	Maximum Super Elevation (ft per ft)	0.10	0.10	0.10	0.10	0.04	0.04
16	Max. Horiz. Curv. (W/O Super Elev.)(+.025)(ft) ⁹	N/A	N/A	N/A	N/A	10 °00'	N/A
	Max. Horiz. Curv. (W/O Super Elev.)(--.025)(ft) ⁹	N/A	N/A	N/A	N/A	8°00'	N/A
17	Min. Horiz. Curv. (With Super Elev.)(ft) ⁹	5° 00'	3° 30'	5° 00'	3° 30'	11° 00'	7° 30'
18	Max. Grade (%)	3 ¹⁰	3	3	3	7	6
19	Minimum Vertical Clearance (ft) ¹¹	16	16	16	16	16	16
20	Minimum Horiz. Clearance (ft)						
	(A) From Edge Of Travel Lane	30	32	32	34	N/A	N/A
	(B) Outside (From Back of Curb)	N/A	N/A	N/A	N/A	6 - 15	6 - 15
	(C) Median (Where Used)(From Back Of Curb)	N/A	N/A	N/A	N/A	4 - 15	4 - 15
21	Minimum Width of Right of Way (ft) ^{12 13}						
	(A) From CL	75	75	As Need	125	N/A	N/A
	(B) From Edge of Travel Way	N/A	N/A	N/A	N/A	8 - 17	8 - 17
22	Bridge Design Load	HS- 20	HS- 20	HS- 20	HS- 20	HS- 20	HS- 20
23	Width of Bridge(ft)(Min.)(Face to Face Bridge Rail)	Shldrwidth	44	40	40	Rdwy+8 ¹⁴	Rdwy+8 ¹⁴
24	Bridge End Treatment Req. At Bridges	Yes	Yes	Yes	Yes	Yes	Yes
Approved							
					Chief Engineer	Date	

¹ Applies To Curbed Sections Only. Use Rural Standards For Uncurbed Sections.

² Used When Adding Two Lanes To Existing Two-Lane Facility.

³ For Rolling Terrain, Limited Passing Sight Distance And High Truck Percentage. 4 Lanes May Be Required When DHV Is Above 400.

⁴ Level Of Service D Permissible In Heavily Developed Areas.

⁵ Consider Increasing To 6-Lane Facility When DHV Is Above Figure Shown In Item No. 2.

⁶ 4' Paved.

⁷ 2% Permissible For Rehabilitation Projects.

⁸ Minimum Values Shown Are Permissible For Rehabilitation Projects. Maximum Values Shown Are To Be Used Where Conditions Permit.

⁹ It May Be Necessary To Flatten The Degree Of The Curve And/Or Increase The Shoulder Width (12' Max.) To Provide Adequate Stopping Sight Distance On Structure.

¹⁰ 4% Permissible In Rolling Terrain.

¹¹ 6" Additional To Allow For Future Surfacing.

¹² Minimum Required For New Location And As Needed For Existing Alignment.

¹³ Obtain Additional Right Of Way For Future Lanes Where Justified.

¹⁴ For Approach Roadways Without Curb, Use Shoulder Width. 6' Sidewalk Behind Curb To Be Carried Across Bridge When Justified By Pedestrian Traffic.

Figure 2-2