MINIMUM CLEAR ROADWAY WIDTHS AND DESIGN LOADINGS FOR NEW AND RECONSTRUCTED BRIDGES (SEE PAGE 5-7)

DESIGN ADT (VEH/DAY)	DESIGN LOADING	MINIMUM CLEAR ROADWAY WIDTH OF BRIDGE (F)
UNDER 400	HL-93	TRAVELED WAY + 4 FT. (2 FT. EACH SIDE)
400 TO 2,000	HL-93	TRAVELED WAY + 6 FT. (3 FT. EACH SIDE)
OVER 2,000	HL-93	

- ☆ SEE TABLE II FOR WIDTHS.

MINIMUM STRUCTURAL CAPACITIES AND MINIMUM **ROADWAY WIDTHS FOR EXISTING BRIDGES** TO REMAIN IN PLACE (SEE PAGE 5-8) (H)

DESIGN ADT (VEH/DAY)	DESIGN LOADING (STRUCTURAL CAPACITY)	MINIMUM CLEAR ROADWAY WIDTH (FT) (I)
0 TO 50	H-15	20
50 TO 250	H-15	20
250 TO 1,500	H-15	22
1,500 TO 2,000	H-15	24
OVER 2,000	H-15	28

TABLE I	MINIMUM DESIGN SPEEDS FOR LOCAL RURAL ROADS (SEE PAGE 5-2)

	DESIGN SPEED (MPH) FOR SPECIFIED DESIGN ADT (VEH/DAY)					
TYPE OF TERRAIN	UNDER 50 TO 250 50 250 4		250 TO 400	400 TO 2,000	2,000 AND OVER	
LEVEL	30	30	40	50	50	
ROLLING	20(J)	30	30	40	40	
MOUNTAINOUS	20(J)	20(J)	20(J)	30	30	

TABLE IILOCAL ROADS AND STREETS - DESIGN STANDARDS

DESIGN STANDARDS (FOR GIVEN DESIGN SPEED)		DESIGN SPEEDS (MPH)						
		15	20	25	30	35	40	
	DESIGN ADT UNDER 400	18	18	18	18	18	18	
TRAVELED WAY IN RURAL AREAS (FT) (SEE PAGE 5-6)	DESIGN ADT 400 - 1,500	20 (K)	20 (K)	20 (K)	20 (K)	20 (K)	20 (K)	
	DESIGN ADT 1,500 - 2,000	20	22	22	22	22	22	
	DESIGN ADT OVER 2,000	22	24 (N)					
MINIMUM RADIUS (FT) 0.04 MAX. S.E.		42	86	154	250	371	533	
MINIMUM RADIUS (FT) 0.06 MAX. S.E.		39	81	144	231	340	485	
MINIMUM RADIUS (FT) 0.08 MAX. S.E.		38	76	134	214	314	444	
MAXIMUM RURAL GRADES %	LEVEL TERRAIN	9	8	7	7	7	7	
	ROLLING TERRAIN	12	11	11	10	10	10	
	MOUNTAINOUS TERRAIN	17	16	15	14	14	13	
MINIMUM STOPPING SIGHT DISTANCE (FT)		80	115	155	200	250	305	
MINIMUM "K" VALUE	CREST VERTICAL CURVE	3	7	12	19	29	44	
	SAG VERTICAL CURVE	10	17	26	37	49	64	
DESIGN PASSING SIGHT DISTANCE (FT)			400	450	500	550	600	
MINIMUM "K" VALUE	PASSING SIGHT DISTANCE FOR CREST VERTICAL CURVE		57	72	89	108	129	
FOR SUPERELEVATION SEE STANDARD DRAWINGS RD11-SE SERIES								

	GENERAL NOTES
1	FOR SPECIFIC CONDITIONS NOT COVERED ON THIS SHEET, REFERENCE SHOULD BE MADE TO "A POLICY OF GEOMETRIC DESIGN OF HI AASHTO, 2011 (GREEN BOOK).
2	FOR URBAN AND SPECIAL PURPOSE ROADS (INCLUDING RECREATIONAL ROADS) DESIGN GUIDANCE AND CRITERIA, REFERENCE IS MAI GEOMETRIC DESIGN OF HIGHWAYS AND STREETS" AASHTO, 2011 (GREEN BOOK), PAGES 5-11 TO 5-34.
3	PAGE NUMBERS REFERRED TO ON THIS DRAWING ARE FROM "A POLICY OF GEOMETRIC DESIGN OF HIGHWAYS AND STREETS" AASHTC
4	REFERENCE IS ALSO MADE TO THE "ROADSIDE DESIGN GUIDE," AASHTO, 2011.
5	FOR INTERSECTION SIGHT DISTANCE AT INTERSECTIONS SEE PAGES 9-28 THROUGH 9-55 AND STANDARD DRAWING SD-SERIES.
6	IF NO ABOVE GROUND UTILITIES ARE INVOLVED, MINIMUM RIGHT-OF-WAY SHALL BE TRAVELED WAY PLUS CLEAR ZONE (MINIMUM OF 10
7	IF ABOVE GROUND UTILITIES ARE INVOLVED, MINIMUM RIGHT-OF-WAY SHALL BE SUFFICIENT TO ACCOMMODATE THE UTILITIES OUTSID
8	DESIRABLE RIGHT-OF-WAY IS SLOPE LINES PLUS TEN FEET.
9	THE DESIGN OF BRIDGES, CULVERTS, WALLS, TUNNELS, AND OTHER STRUCTURES SHOULD BE IN ACCORDANCE WITH THE CURRENT A SPECIFICATIONS. THE DESIGN LOADING SHOULD BE HL-93 CALIBRATED LIVE LOAD DESIGNATION.
10	IF A BIKE ROUTE IS TO BE INCLUDED AS PART OF THE PROPOSED ROADWAY, THE PAVED APPROACH ROADWAY WIDTH SHALL BE A MIN



REV. 06-28-19: ADDED FOOT NOTE (P) TO TABLE FOR MINIMUM CLEAR ROADWAY WIDTHS AND DESIGN LOADINGS FOR NEW AND RECONSTRUCTED BRIDGES.

