

SPECIAL NOTE

THIS DRAWING IS NOT TO BE UTILIZED FOR NEW DESIGN PROJECTS BEGUN AFTER OCTOBER 1, 2002.

FOOTNOTES

- 1) SEE GUARDRAIL STANDARD DRAWINGS FOR TYPICAL GUARDRAIL PLACEMENT.
- 2 SEE DETAIL A, B, C, OR D ON THIS SHEET FOR ROUNDING.

SUBGRADE

DETAIL D

- 3 MINIMUM CLEAR ZONE IS 3.0 m FOR 60 km/h OR LESS. FOR 80 km/h DESIGN AND GREATER THE CLEAR ZONE WIDTH SHALL BE DETERMINED FROM STANDARD DRAWING RDM-S-11. FOR URBAN DESIGN SEE PAGE 477-478.
- 4 SEE STANDARD DRAWING RDM-S-11 FOR FILL AND CUT SLOPE TABLES, ROUNDING ON TOP OF CUT SLOPES AND TOE OF FILL SLOPES, AND SPECIAL ROCK CUT TREATMENT.
- 5) SEE STANDARD DRAWING RDM-S-11A FOR ROUNDING OF ROADSIDE DITCH SLOPES
- 6 THE SLOPES OF THE SHOULDER AND ROADWAY PAVEMENT SHALL NOT EXCEED AN ALGEBRAIC DIFFERENCE OF 7.0 %.
- (7) "K" VALUE IS A COEFFICIENT BY WHICH THE ALGEBRAIC DIFFERENCE IN GRADE MAY BE MULTIPLIED TO DETERMINED THE LENGTH IN METERS OF THE VERTICAL CURVE.
- 8 ANY LENGTH OF STOPPING SIGHT DISTANCE WITHIN THE RANGE OF VALUES ESTABLISHED ON PAGE 462, TABLE VI-2A IS ACCEPTABLE FOR A SPECIFIC SPEED. HOWEVER, VALUES APPROACHING OR EXCEEDING THE UPPER LIMIT OF THE RANGE SHOULD BE USED AS THE BASIS FOR DESIGN WHEREVER CONDITIONS PERMIT.
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- (1) 4:1 SLOPES MAY BE USED WITH NARROW MEDIANS AND LOW DESIGN SPEEDS.
- (1) MINIMUM MEDIAN WIDTH IS TO BE 15.0 m WHEN USING 1.8 m WIDE INSIDE SHOULDERS. MINIMUM MEDIAN WIDTH IS TO BE 19.4 m WHEN USING 3.6 m WIDE INSIDE SHOULDERS.

9 DESIGN SPEED	(km/h)
LEVEL TOPO	100
ROLLING TOPO	80
MOLINTAINOUS TOPO	60

(km/h)
100
80

GENERAL	NOTES

- FOR SPECIFIC CONDITIONS NOT COVERED ON THIS SHEET, REFERENCE SHOULD BE MADE TO "A POLICY ON GEOMETRIC DESIGN OF HIGHWAYS AND STREETS" 1994.
- PAGE NUMBERS REFERRED TO ON THIS DRAWING ARE FROM THE ABOVE REFERENCE.
- REFERENCE SHOULD ALSO BE MADE TO THE AASHTO "ROADSIDE DESIGN GUIDE".
- D DESIRABLE RIGHT-OF-WAY IS SLOPE LINES PLUS 3.0 m.
- IF NO ABOVE GROUND UTILITIES ARE INVOLVED, MINIMUM RIGHT-OF-WAY SHALL BE TRAVELED WAY PLUS CLEAR ZONE.
- F ABOVE GROUND UTILITIES ARE INVOLVED, MINIMUM RIGHT-OF-WAY SHALL BE SUFFICIENT TO ACCOMMODATE THE UTILITIES OUTSIDE THE CLEAR ZONE.
- ALL NEW AND REHABILITATED BRIDGES SHALL BE DESIGNED FOR MS-18 LOADING.
 THE MINIMUM CLEAR WIDTH FOR NEW AND REHABILITATED BRIDGES SHALL BE EQUAL
 TO THE FULL WIDTH OF THE APPROACH ROADWAY, CURB-TO-CURB OR FULL SHOULDER WIDTH AS APPLICABLE.
- BRIDGES TO REMAIN IN PLACE SHOULD HAVE ADEQUATE STRENGTH AND AT LEAST THE WIDTH OF THE TRAVELED WAY PLUS 0.6 m CLEARANCE ON EACH SIDE, BUT SHOULD BE CONSIDERED FOR ULTIMATE WIDENING OR REPLACEMENT IF THEY DO NOT PROVIDE AT LEAST 1.0 m CLEARANCE ON EACH SIDE OR ARE NOT CAPABLE OF MS-18 LOADINGS. AS AN INTERIM MEASURE, ALL BRIDGES THAT ARE LESS THAN FULL WIDTH SHOULD BE CONSIDERED FOR SPECIAL NARROW BRIDGE TREATMENTS SUCH AS SIGNING AND PAVEMENT MARKING.

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ALL UNITS ARE IN MILLIMETERS UNLESS NOTED OTHERWISE.

APPROVAL NOT REQUIRED.

STATE	OF	Tennessee
EPARTMENT	OF	TRANSPORTATIO

DESIGN STANDARDS 4-6 LANE COLLECTOR HIGHWAYS WITH DEPRESSED MEDIANS 11-1-95 **RDM-TS-2A**

DESIGN STANDARDS			DESIGN SPEEDS (km/h)								
(FOR GIVEN	SN SPEED)	30	40	50	60	70	80	90	100	110	
MINIMUM RADIUS (m) 4.0 % MAX. S.E.		35	60	100	150	215	280	375	490	635	
MINIMUM RADIUS (m) 6.0 % MAX, S.E.		30	55	90	135	195	250	335	435	560	
MINIMUM RADIUS (m) 8.0 % MAX. S.E.		30	50	80	125	175	230	305	395	500	
MINIMUM RADIUS (m) 10.0 % MAX. S.E.		25	45	75	115	160	210	275	360	455	
MAXIMUM RURAL GRADES (%) (PAGE 463,TABLE VI-3)		LEVEL TOPO	7	7	7	7	7	6	6	5	4
		ROLLING TOPO	10	10	9	8	8	7	7	6	5
	I-3)	MOUNTAINOUS TOPO	12	11	10	10	10	9	9	8	6
MAXIMUM URBAN	1	LEVEL TOPO	9	9	9	9	8	7	7	6	5
GRADES (%)		ROLLING TOPO	12	12	11	10	9	8	8	7	6
(PAGE 463, TABLE VI-3)	VI-3)	MOUNTAINOUS TOPO	14	13	12	12	11	10	10	9	7
MINIMUM STOPPING SIGHT DISTANCE (m)		29.6	44.4	57.4-62.8	74.3-84.6	94.1-110.8	112.8-139.4	131.2-168.7	157.0-205.0	179.5-246.4	
7	CREST	CREST VERTICAL CURVE		5	9-10	14-18	22-31	32-49	43-71	62-105	80-151
MINIMUM "K" VALUE	SAG VERTICAL CURVE		4	8	11-12	15-18	20-25	25-32	30-40	37-51	43-62
SUPERELEVATION			SUPERELEVATION SEE STANDARD DRAWINGS RDM-SE-2 & RDM-SE-3								