

DESIGN STANDARDS			DESIGN SPEEDS (MPH)			
(FOR GIVEN DESIGN SPEED)		30	40	50	60	
MAXIMUM CURVATURE (DEGREES) 0.04 MAX. S.E.			19°00′	10°00′	6°00′	3°45′
MAXIMUM CURVATURE (DEGREES) 0.06 MAX. S.E.			21°00′	11°15′	6°45′	4°15′
MAXIMUM CURVATURE (DEGREES) 0.08 MAX. S.E.			22°45′	12°15′	7°30′	4°45′
MAXIMUM CURVATURE (DEGREES) 0.10 MAX. S.		0.10 MAX. S.E.	24°45′	13°15′	8°15′	5°15′
MAXIMUM RURAL		LEVEL TOPO		5	4	3
GRADES (PAGE 496, TABLE VI		ROLLING TOPO		6	5	4
	[I - 1)	MOUNTAINOUS TOPO		8	7	6
MAXIMUM URBAN GRADES (%)		LEVEL TOPO	8	7	6	5
		ROLLING TOPO	9	8	7	6
(PAGE 525, TABLE V	I I - 4)	MOUNTAINOUS TOPO	1 1	10	9	8
8 MINIMUM STOPPING SIGHT DISTANCE (FEET)			200-200	275-325	400-475	525-650
7 minimum "k" value	CREST VERTICAL CURVE		30-30	60-80	110-160	190-310
	SAG VERTICAL CURVE		40-40	60-70	90-110	120-160
SUPERELEVATION			SEE STANDARD DRAWINGS RD-SE-2 & RD-SE-3			

- RD-S-11. FOR URBAN DESIGN SEE PAGE 534-535.
- 4) SEE STANDARD DRAWING RD-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 RD-S-11A FOR ROUNDING OF ROADSIDE DITCH SLOPES.
- (6) THE SLOPES OF THE SHOULDER AND ROADWAY PAVEMENT SHALL NOT EXCEED AN ALGEBRAIC DIFFERENCE OF 0.07 FOOT PER FOOT.
- (7) "K" VALUE IS A COEFFICIENT BY WHICH THE ALGEBRAIC DIFFERENCE IN GRADE MAY BE MULTIPLIED TO DETERMINED THE LENGTH IN FEET OF THE VERTICAL CURVE.
- (8) ANY LENGTH OF STOPPING SIGHT DISTANCE WITHIN THE RANGE OF VALUES ESTABLISHED ON PAGE 500, TABLE VII-3 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.
- (9) RURAL ONLY SEE PAGE 494. FOR URBAN DESIGN SEE PAGE 524.

- TO THE FULL WIDTH OF THE APPROACH ROADWAY, CURB-TO-CURB OR FULL SHOULDER WIDTH AS APPLICABLE.
- (F) BRIDGES TO REMAIN IN PLACE SHOULD HAVE ADEQUATE STRENGTH AND AT LEAST THE WIDTH OF THE TRAVELED WAY PLUS 2 FEET CLEARANCE ON EACH SIDE, BUT SHOULD BE CONSIDERED FOR ULTIMATE WIDENING OR REPLACEMENT IF THEY DO NOT PROVIDE AT LEAST 3 FEET CLEARANCE ON EACH SIDE OR ARE NOT CAPABLE OF HS-20 LOADINGS. AS AN INTERIM MEASURE, ALL BRIDGES THAT ARE LESS THAN FULL WIDTH SHOULD BE CONSIDERED FOR SPECIAL NARROW BRIDGE TREATMENT SUCH AS SIGNING AND PAVEMENT MARKING.

STATE OF TENNESSEE DEPARTMENT OF TRANSPORTATION

DESIGN STANDARDS 4-6 LANE ARTERIAL HIGHWAYS WITH FLUSH MEDIANS

MINOR REVISION -- FHWA APPROVAL NOT REQUIRED.

11-18-88 RD-TS-3C