

DETAIL C

SUBGRADE -

AND STREETS," AASHTO, 2001.

OTHERWISE NOTED.

WIDTH AS APPLICABLE.

2002.

SUBGRADE — DETAIL D

GENERAL NOTES

GEOMETRIC DESIGN OF HIGHWAYS AND STREETS, " AASHTO, 2001, UNLESS

(C) REFERENCE SHOULD ALSO BE MADE TO THE "ROADSIDE DESIGN GUIDE," AASHTO,

(A) FOR SPECIFIC CONDITIONS NOT COVERED ON THIS SHEET, REFERENCE

SHOULD BE MADE TO "A POLICY ON GEOMETRIC DESIGN OF HIGHWAYS

(B) PAGE NUMBERS REFERRED TO ON THIS DRAWING ARE FROM "A POLICY ON

(E) IF NO ABOVE GROUND UTILITIES ARE INVOLVED, MINIMUM RIGHT-OF-WAY

F IF ABOVE GROUND UTILITIES ARE INVOLVED, MINIMUM RIGHT-OF-WAY SHALL

(H) FOR EXISTING BRIDGES TO REMAIN IN PLACE, THEY SHOULD HAVE ADEQUATE

BE SUFFICIENT TO ACCOMMODATE THE UTILITIES OUTSIDE THE CLEAR ZONE.

G ALL NEW AND REHABILITATED BRIDGES SHALL BE DESIGNED FOR HS-20 LOADING.

STRUCTURAL STRENGTH AND A WIDTH AT LEAST EQUAL TO THE WIDTH OF THE

TRAVELED WAY PLUS 2 FEET CLEARANCE ON EACH SIDE. BRIDGES SHOULD BE

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

CONSIDERED FOR ULTIMATE WIDENING OR REPLACEMENT IF THEY DO NOT PROVIDE

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

(D) DESIRABLE RIGHT-OF-WAY IS SLOPE LINES PLUS FIFTEEN FEET.

SHALL BE TRAVELED WAY PLUS CLEAR ZONE.

— NO ROUNDING

REQUIRED

RURAL COLLECTOR ROADS (SEE PAGE 426)

4' ROUNDING

LOW SIDE 10'

PAVED

	TYPE OF TERRAIN	MINIMUM DESIGN SPEED (MPH)					
	LEVEL	60					
	ROLLING	50					
ĺ	MOUNTAINOUS	40					

TABLE I. MINIMUM DESIGN SPEEDS FOR

SUBGRADE—

TYPE OF TERRAIN	MINIMUM DESIGN SPEED (MPH)					
LEVEL	60 50					
ROLLING						
MOUNTAINOUS	40					

FOOTNOTES

- SEE GUARDRAIL STANDARD DRAWINGS FOR TYPICAL GUARDRAIL PLACEMENT.
- SEE DETAILS A, B, C, OR D FOR ROUNDING.

0.01 F/F

- THE CLEAR ZONE WIDTH SHALL BE DETERMINED FROM STANDARD DRAWING RD01-S-12. SEE THE "ROADSIDE DESIGN GUIDE," AASHTO, 2002, FOR FURTHER INFORMATION ON CLEAR ZONES.
- SEE STANDARD DRAWINGS RD01-S-11 AND RD01-S-11B 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 RD01-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) ALTHOUGH THE SELECTED DESIGN SPEED ESTABLISHES THE LIMITING VALUES OF CURVE RADIUS AND MINIMUM SIGHT DISTANCE THAT SHOULD BE USED IN DESIGN. THERE SHOULD BE NO RESTRICTION ON THE USE OF FLATTER HORIZONTAL CURVES OF GREATER SIGHT DISTANCES WHERE SUCH IMPROVEMENTS CAN BE PROVIDED AS A PART OF AN ECONOMICAL DESIGN (SEE PAGE 69).
- (8) 4 FEET MEDIAN WIDTH ALLOWED UNDER RESTRICTIVE CONDITIONS. 12 FEET MINIMUM WIDTH IS PREFERRED.

TABLE II. 4 AND 6 LANE COLLECTOR ROADS AND STREETS - DESIGN STANDARDS (7)

FINISHED

GRADE_

SUPERELEVATED SECTION

S.E.

	I AND O LANE CO		IN INOAB	5 4110	STREET	<i>5 D</i> L	51011 5	TANDAN	
DESIGN	DESIGN SPEEDS (MPH)								
(FOR GIVEN	30	35	40	45	50	55	60	1	
MINIMUM RADIUS	300	420	565	730	930	1190	1505	SEE PAGE 145	
MINIMUM RADIUS	275	380	510	660	835	1065	1340		
MINIMUM RADIUS	(FT.) 0.08 MAX. S.E.	250	350	465	600	760	965	1205	TOL 113
	LEVEL TERRAIN	7	7	7	7	6	6	5	SEE PAGE 427
MAXIMUM RURAL GRADES %	ROLLING TERRAIN	9	9	8	8	7	7	6	
ONADES %	MOUNTAINOUS TERRAIN	10	10	10	10	9	9	8	
	LEVEL TERRAIN	9	9	9	8	7	7	6	SEE PAGE 436
MAXIMUM URBAN GRADES %	ROLLING TERRAIN	1 1	10	10	9	8	8	7	
GRADES %	MOUNTAINOUS TERRAIN	12	12	12	1 1	10	10	9	
MINIMUM STOPPIN	200	250	305	360	425	495	570	1	
MINIMUM "K"	CREST VERTICAL CURVE	19	29	44	61	84	114	151	SEE PAGE 426
VALUE	SAG VERTICAL CURVE	37	49	64	79	96	115	136	
SUPE	SEE STANDARD DRAWINGS RD01-SE-2 AND RD01-SE-3								

MINOR REVISION -- FHWA . Approval not required.

State of tennessee DEPARTMENT OF TRANSPORTATION

DESIGN STANDARDS 4 AND 6 LANE COLLECTOR HIGHWAYS WITH FLUSH MEDIANS

10-15-02 RDO1-TS-2B

(I) FOR ADDITIONAL URBAN DESIGN GUIDANCE AND CRITERIA, SEE PAGES 433-444.

WIDTH SHOULD BE CONSIDERED FOR SPECIAL NARROW BRIDGE TREATMENTS SUCH AS SIGNING AND PAVEMENT MARKING.