

PAVEMENT TYPES

STREET CLASSIFICATIONS

OPTION 1

OPTION 2

LOCAL

6" min. portland cement concrete pavement.

1 1/2" type 3 asphaltic concrete surface.

6" min. compacted subgrade 95% of standard max. density.

6 1/2" min. asphaltic concrete base course (type 1 or 2)

COLLECTOR / COMMERCIAL

7" min. portland cement concrete pavement

1 1/2" type 3 asphaltic concrete surface

6" min. compacted subgrade 95% of standard max. density

8 1/2" min. asphaltic concrete base course (type 1 or 2)

6" min. compacted subgrade 95% of standard max. density

MINOR ARTERIAL

9" min. portland cement concrete pavement

1 1/2" type 3 asphaltic concrete surface

6" min. compacted subgrade 95% of standard max. density

10 1/2" min. asphaltic concrete base course (type 1 or 2)

6" min. compacted subgrade 95% of standard max. density

MAJOR ARTERIAL

9" min. portland cement concrete pavement

1 1/2" type 3 asphaltic concrete surface

6" min. compacted subgrade 95% of standard max. density

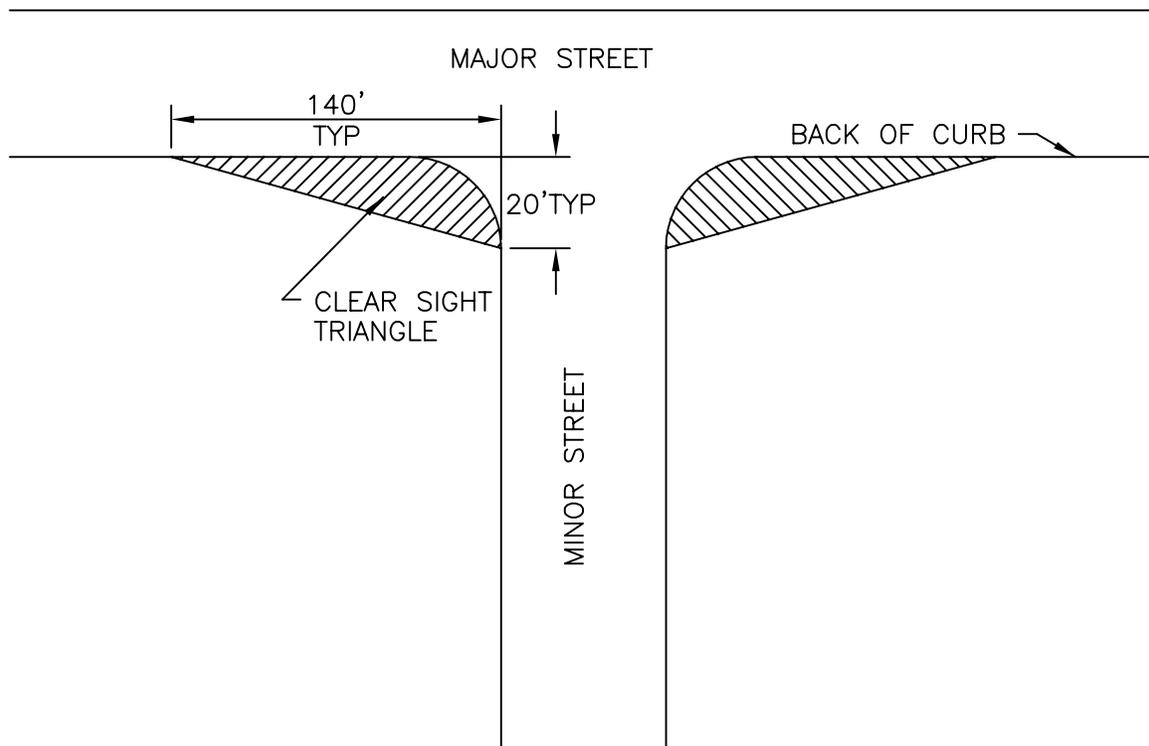
10 1/2" min. asphaltic concrete base course (type 1 or 2)

6" min. compacted subgrade 95% of standard max. density

NOTE: Pavement type options to be considered shall be submitted to the City Engineer for approval.

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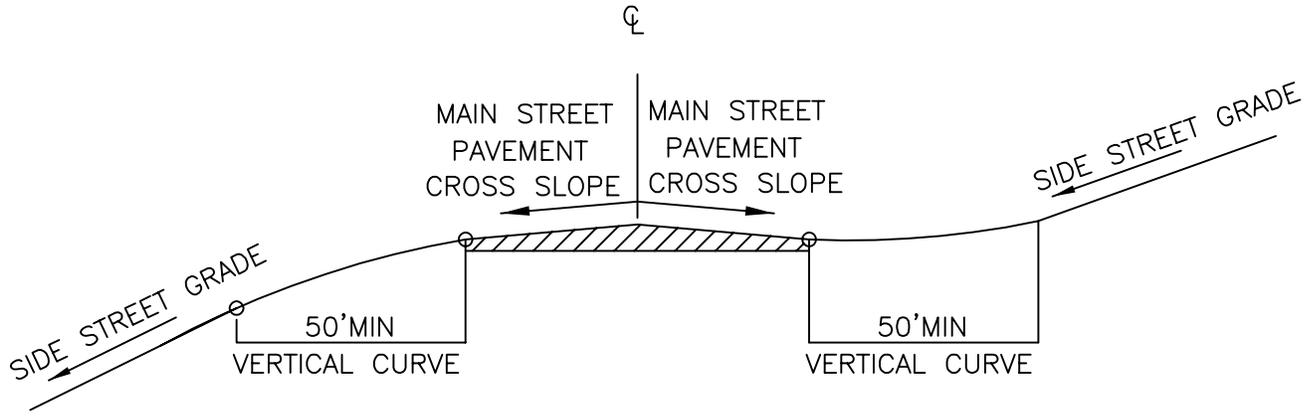


REV 97

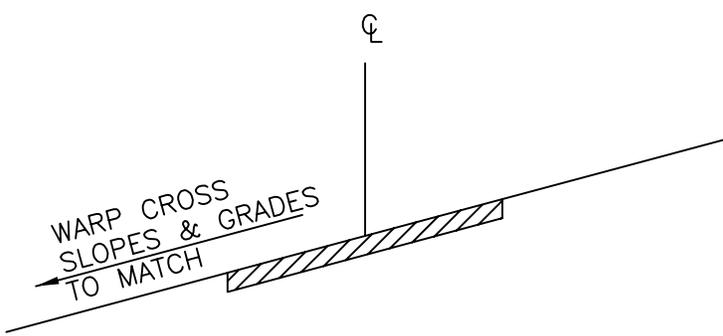


CITY OF LIBERTY, MO
DEPARTMENT OF
PUBLIC WORKS

INTERSECTION CLEAR
SIGHT TRIANGLE
Design Aid No.4



MAIN STREET SECTION & SIDE STREET PROFILE
 INTERSECTION OF LESSER WITH A GREATER FUNCTION STREET



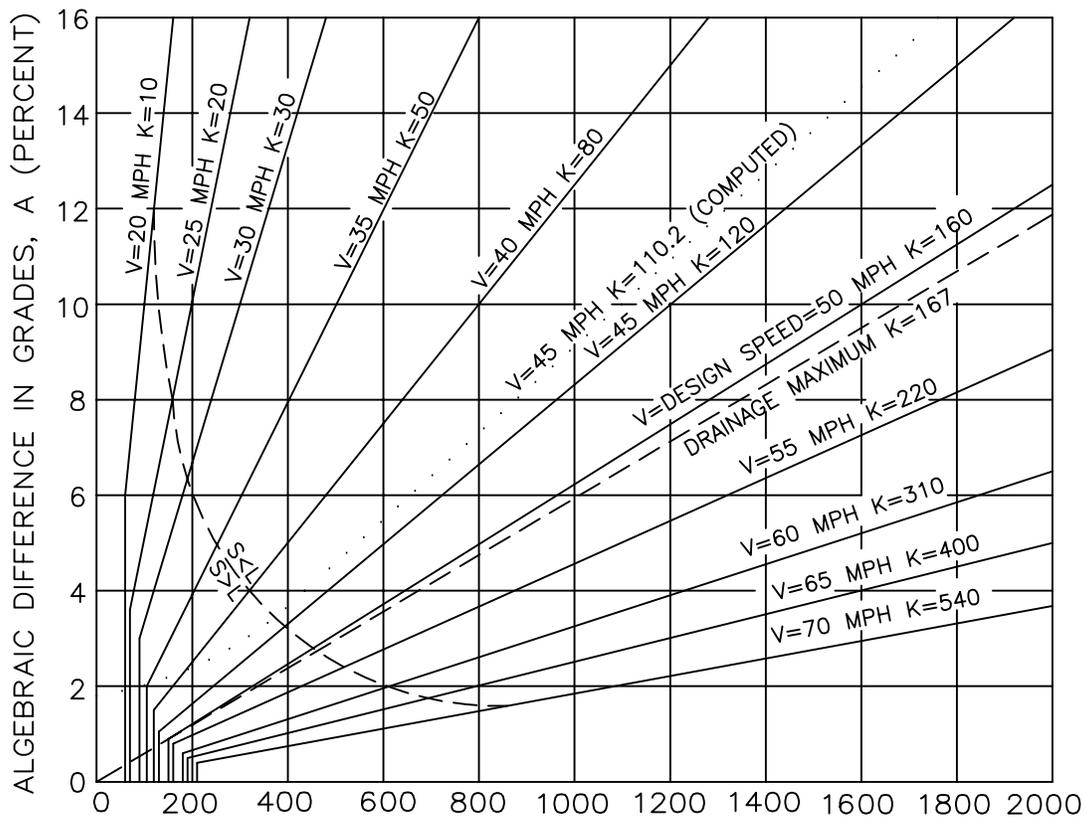
THRU STREET SECTION AND PERPENDICULAR STREET PROFILE
 INTERSECTION OF EQUAL FUNCTION STREETS

REV 97



CITY OF LIBERTY, MO
 DEPARTMENT OF
 PUBLIC WORKS

INTERSECTION
 VERTICAL ALIGNMENT
 Design Aid No.5



DESIGN SPEED (MPH)	STOPPING SIGHT DISTANCE (FT.)	K VALUE
20	125	10
25	150	20
30	200	30
35	250	50
40	325	80
45	400	120
50	475	160
55	550	220
60	650	310
65	725	400
70	850	540

$$S < L : L = \frac{AS^2}{1398}$$

L=LENGTH OF VERTICAL CURVE

A=ALGEBRAIC DIFFERENCE IN GRADES

$$S > L : L = 2S - \frac{1398}{A}$$

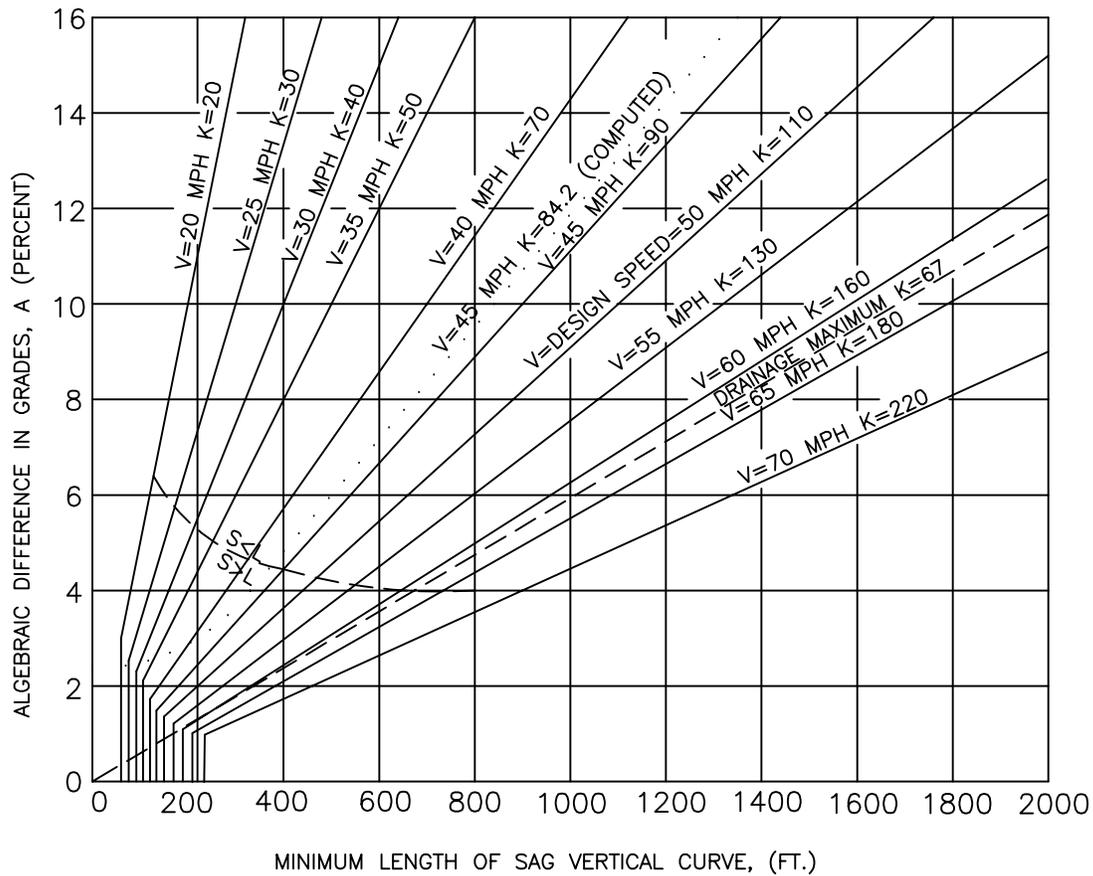
S=STOPPING SIGHT DISTANCE

DESIGN CONTROLS FOR CREST VERTICAL CURVES

STOPPING SIGHT DISTANCE

FIGURE III-39





DESIGN SPEED (MPH)	STOPPING SIGHT DISTANCE (FT.)	K VALUE
20	125	20
25	150	30
30	200	40
35	250	50
40	325	70
45	400	90
50	475	110
55	550	130
60	650	160
65	725	180
70	850	220

$$S < L : L = \frac{AS^2}{1398}$$

$$S > L : L = 2S - \frac{1398}{A}$$

L=LENGTH OF VERTICAL CURVE

A=ALGEBRAIC DIFFERENCE IN GRADES

S=STOPPING SIGHT DISTANCE

DESIGN CONTROL FOR SAG VERTICAL CURVES

STOPPING SIGHT DISTANCE

FIGURE III-40

