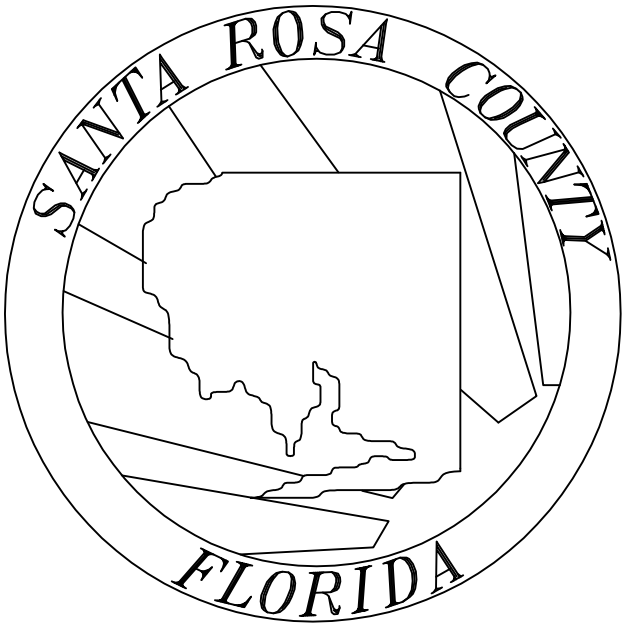
SANTA ROSA COUNTY SUBDIVISION ROADWAY DESIGN MANUAL



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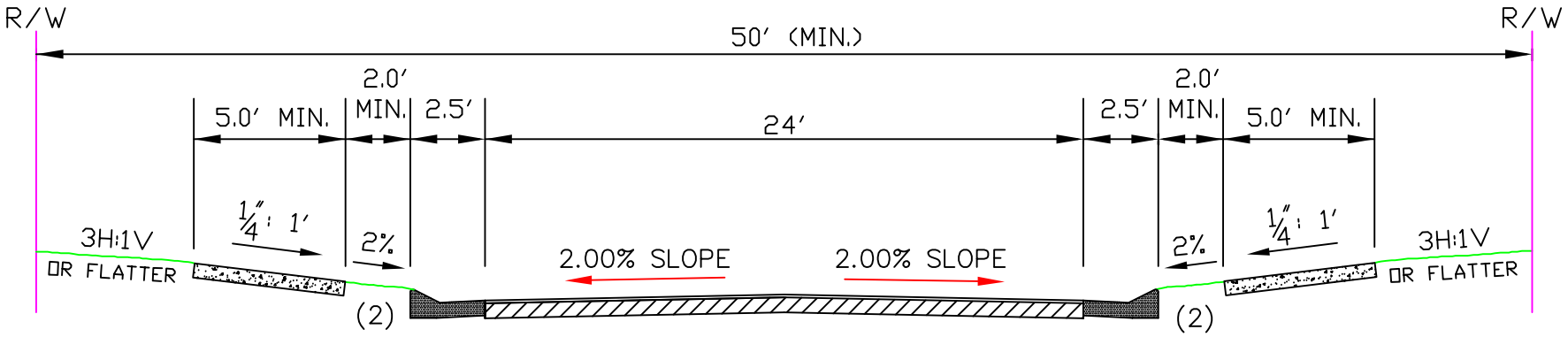


DESIGN SPEED (MPH)	MIN. C/L RADIUS (FT.)	MIN "K" VALUE FOR V.C. (1)	
		CREST	SAG
15	50	31	37
20	89	31	37
25	166	31	37

TYPICAL URBAN RESIDENTIAL STREET

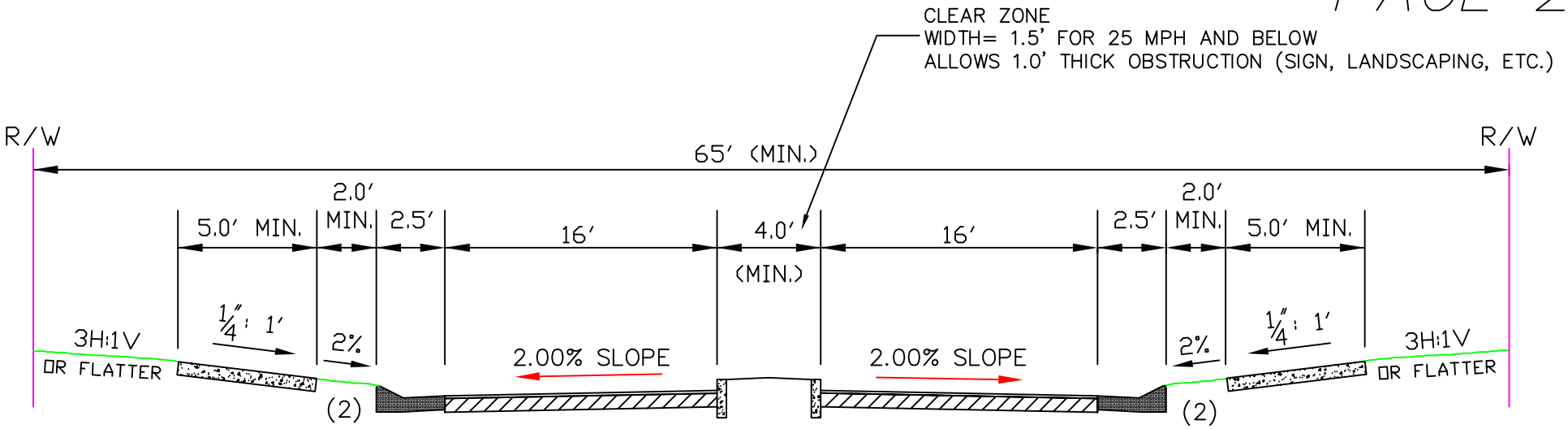
NOT TO SCALE

VPD ≤ 1500

(1) Utilize 30 MPH Design Speed Vertical Curve Criteria for All Residentiall Roads Per "Florida Greenbook" Ch. 16 Section C.4.a.

(2) Min. 6.0' Wide Sidewalk if adjacent to curb. Use appropriate Driveway Curb Cuts.

ADDITIONAL R/W MAY BE REQUIRED AT INTERSECTIONS FOR TURNLANES.



DESIGN SPEED (MPH)	MIN. C/L RADIUS (FT.)	MIN "K" VALUE FOR V.C. (1)	
		CREST	SAG
15	50	31	37
20	89	31	37
25	166	31	37

TYPICAL URBAN RESIDENTIAL BOULEVARD (3)

NOT TO SCALE

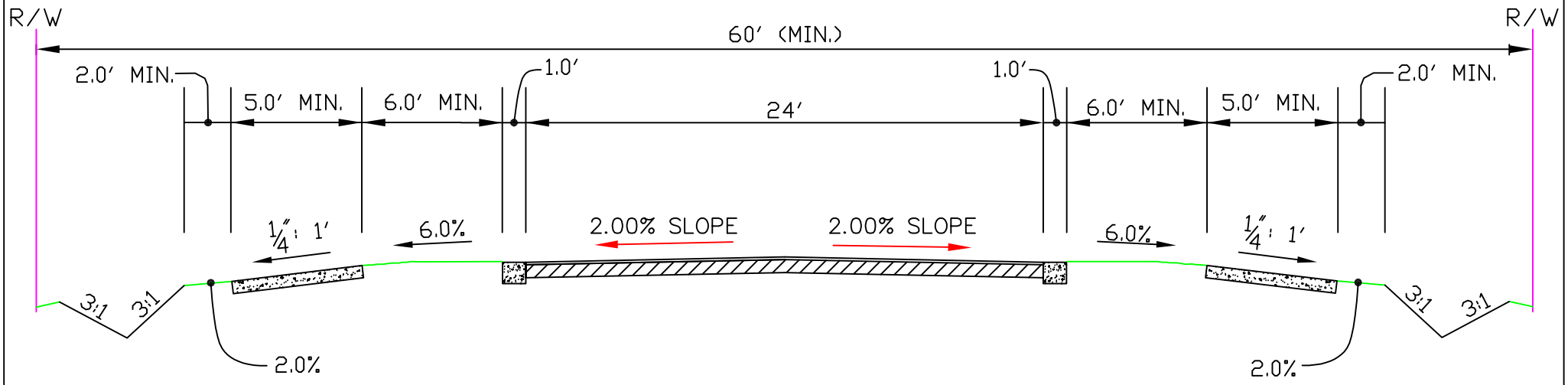
VPD ≤ 1500

(1) Utilize 30 MPH Design Speed Vertical Curve Criteria for All Residential Roads Per "Florida Greenbook" Ch. 16 Section C.4.a.

(2) Min. 6.0' Wide Sidewalk if adjacent to curb. Use appropriate Driveway Curb Cuts.

(3) Required When only One Entrance for 50 Lots or Greater. May use Striping if Lots are on Street.

ADDITIONAL R/W MAY BE REQUIRED AT INTERSECTIONS FOR TURNLANES.



DESIGN SPEED (MPH)	MIN. C/L RADIUS (FT.)	CLEAR ZONE (FT.)	MIN "K" VALUE FOR V.C. (1)	
			CREST	SAG
15	50	6	31	37
20	89	6	31	37
25	166	6	31	37

TYPICAL RURAL RESIDENTIAL STREET (2)

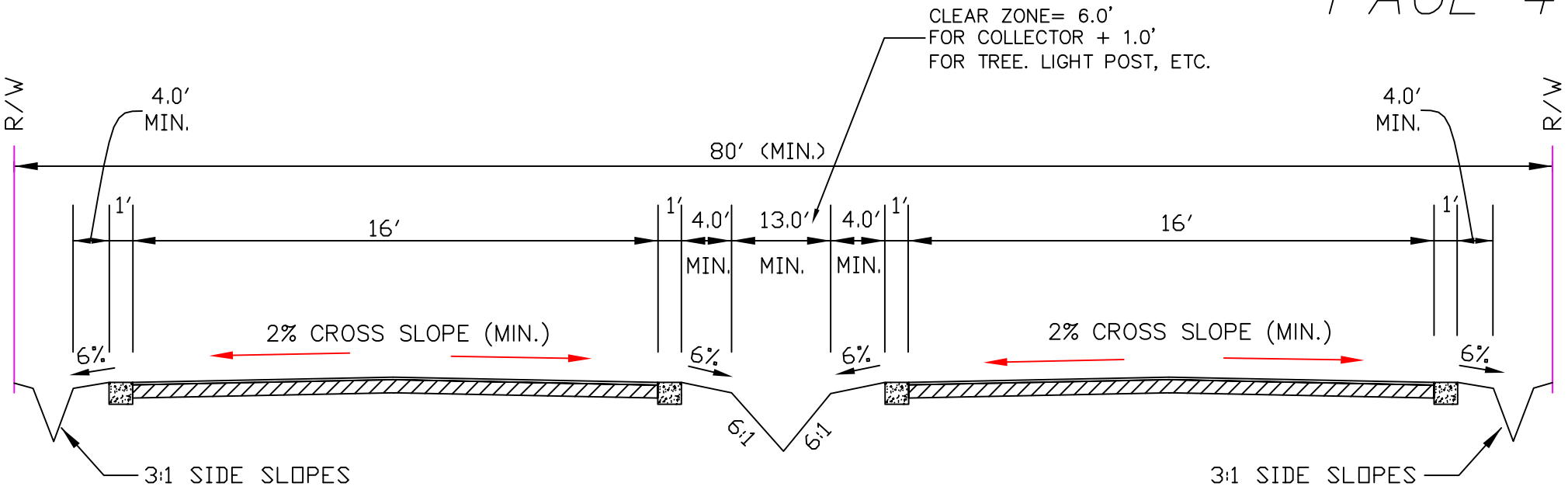
NOT TO SCALE

VPD ≤ 1500

(1) Utilize 30 MPH Design Speed Vertical Curve Criteria for All Residentiall Roads Per "Florida Greenbook" Ch. 16 Section C.4.a.

(2) Rural Section Allowed Only For Lots With 110 L.F. Of Frontage.

ADDITIONAL R/W MAY BE REQUIRED AT INTERSECTIONS FOR TURNLANES.



DESIGN SPEED (MPH)	MIN. C/L RADIUS (FT.)	CLEAR ZONE (FT.)	MIN "K" VALUE FOR V.C.	
			CREST	SAG
30	230	10	31	37
35	320	10	47	49
40	430	10	70	64
45	555	18	98	79

TYPICAL RURAL RESIDENTIAL BOULEVARD (3)

NOT TO SCALE

> 1500 VPD

(1) Utilize 30 MPH Design Speed Vertical Curve Criteria For All Residential Roads Per "Florida Greenbook" Ch. 16 Section C.4.a.

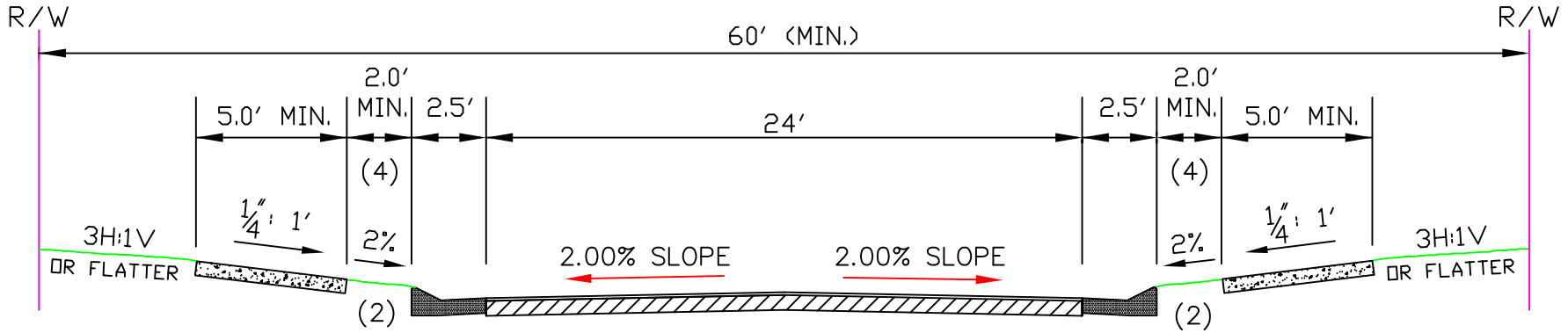
(2) No Sidewalk Within Clear Zone Permitted.

(3) Required When Only One Entrance For 50 Lots Or Greater.

(4) Rural Section Allowed Only For Lots With 110 L.F. Of Frontage.

(5) The Inclusion Of Sidewalks Will Require Additional R/W.

ADDITIONAL R/W MAY BE REQUIRED AT INTERSECTIONS FOR TURNLANES.



DESIGN SPEED (MPH)	MIN. C/L RADIUS (FT.)	MIN "K" VALUE FOR V.C. (1) CREST	SAG
25	166	31	37
30	275	31	37

TYPICAL URBAN RESIDENTIAL COLLECTOR

NOT TO SCALE

1500 VPD – 2500 VPD

* Add Appropriate Center and Edge Striping *

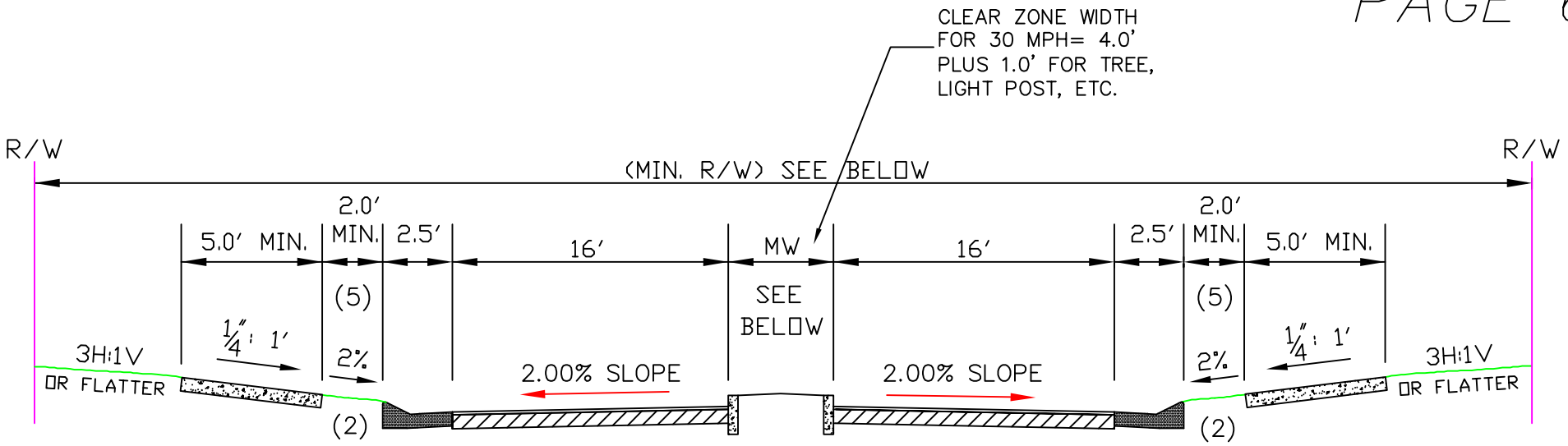
(1) Utilize 30 MPH Design Speed Vertical Curve Criteria for All Residential Roads Per "Florida Greenbook" Ch. 16 Section C.4.a.

(2) Min. 6.0' Wide Sidewalk if adjacent to curb. Use appropriate Driveway Curb Cuts.

(3) No Street Parking Allowed. Install R7–1 W/ Double Arrow, Back to Back on One Side of Street within 100' of any Inter–section. Additional Signs not more than 300' Apart.

(4) 3.0' Minimum for 30 MPH Design Speed

ADDITIONAL R/W MAY BE REQUIRED AT INTERSECTIONS FOR TURNLANES.



DESIGN SPEED (MPH)	MIN. R/W (FT.)	MW (FT.)	MIN. C/L RADIUS (FT.)	MIN "K" VALUE FOR V.C. (1)	
				CREST	SAG
25	66	4 MIN.	166	31	37
30	70	9 MIN.	275	31	37

TYPICAL URBAN RESIDENTIAL COLLECTOR BOULEVARD (4)

NOT TO SCALE

1501 VPD – 2500 VPD

(1) Utilize 30 MPH Design Speed Vertical Curve Criteria for All Residential Roads Per "Florida Greenbook" Ch. 16 Section C.4.a.

(2) Min. 6.0' Wide Sidewalk if adjacent to curb. Use appropriate Driveway Curb Cuts.

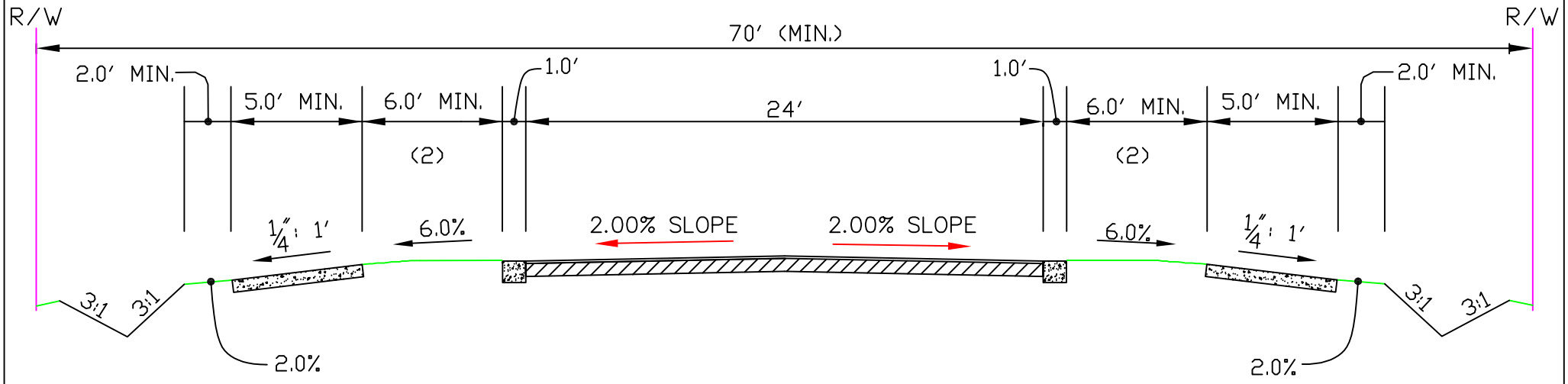
(3) No Street Parking Allowed. Install R7–1 With Double Arrow, Back To Back On One Side Of Street Within 100' Of Any Intersection. Additional Signs Not More Than 300' Apart May Use Stripeing If Lots Are On Street.

(4) Required when only one Entrance for 50 Lots or Greater.

(5) 3.0' Minimum For 30 MPH Design Speed.

(6) Sidewalk Required On At Least One Side Of Street.

ADDITIONAL R/W MAY BE REQUIRED AT INTERSECTIONS FOR TURNLANES.



DESIGN SPEED (MPH)	MIN. C/L RADIUS (FT.)	CLEAR ZONE (FT.)	MIN "K" VALUE FOR V.C. (1)	
			CREST	SAG
25	166	6	31	37
30	275	10	31	37

* ADD APPROPRIATE CENTER AND EDGE STRIPING *

TYPICAL RURAL RESIDENTIAL COLLECTOR (2)

NOT TO SCALE

1501 VPD – 2500 VPD

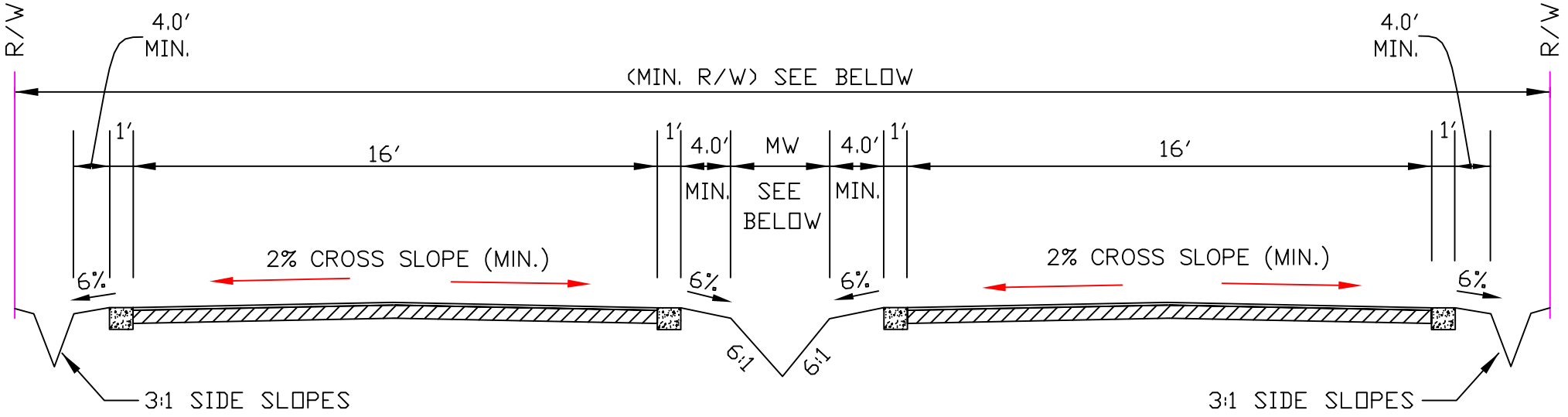
(1) Utilize 30 MPH Design Speed Vertical Curve Criteria For All Residential Roads Per "Florida Greenbook" Ch. 16 Section C.4.a.

(2) 10 Foot Minimum For 30 MPH Design Speed.

(3) Rural Section Allowed Only For Lots With 110 L.F. Of Frontage.

(4) No Street Parking Allowed. Install R7–1 With Double Arrow, Back To Back On One Side Of Street Within 100' Of Any Intersection. Additional Signs Not More Than 300' Apart.

ADDITIONAL R/W MAY BE REQUIRED AT INTERSECTIONS FOR TURNLANES.



DESIGN SPEED (MPH)	MIN. R/W (FT.)	MW (FT.)	MIN. C/L RADIUS (FT.)	CLEAR ZONE (FT.)	MIN "K" VALUE FOR V.C.	
					CREST	SAG
25	80	13	166	6	31	37
30	90	21	275	10	31	37

TYPICAL RURAL RESIDENTIAL COLLECTOR BOULEVARD (3)

NOT TO SCALE

> 1500 VPD

(1) Utilize 30 MPH Design Speed Vertical Curve Criteria For All Residential Roads Per "Florida Greenbook" Ch. 16 Section C.4.a.

(2) No Sidewalk Within Clear Zone Permitted.

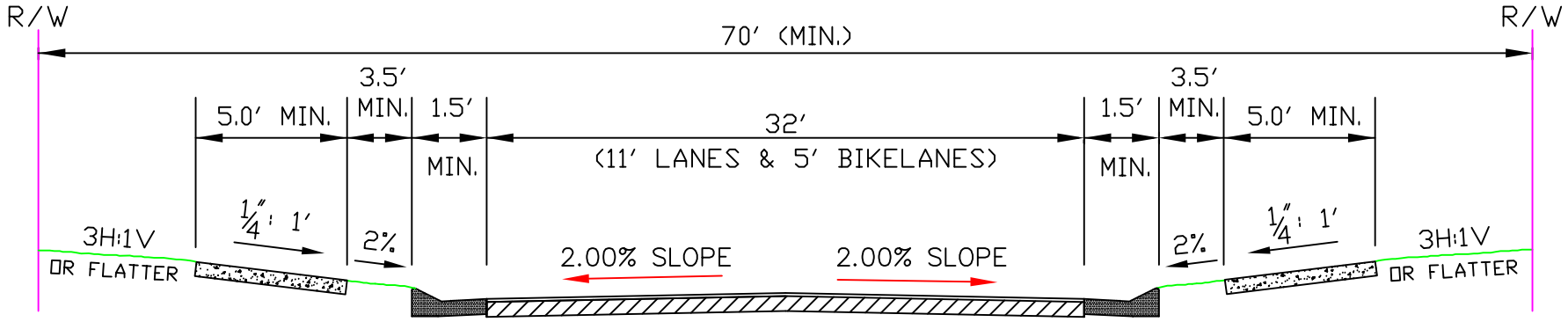
(3) Required When Only One Entrance For 50 Lots Or Greater.

(4) No Street Parking Allowed. Install R7–1 With Double Arrow, Back To Back On One Side Of Street Within 100' Of Any Intersection. Additional Signs Not More Than 300' Apart May Use Stripeing If Lots Are On Street.

(5) Rural Section Allowed Only For Lots With 110 L.F. Of Frontage.

(6) 5.0 Foot Wide Sidewalk Will Be Required On At Least One Side Of Street. Adjust R/W Width Accordingly.

ADDITIONAL R/W MAY BE REQUIRED AT INTERSECTIONS FOR TURNLANES.



DESIGN SPEED (MPH)	MIN. C/L RADIUS (FT.)	MIN "K" VALUE FOR V.C.	
		CREST	SAG
30	275	31	37
35	320	47	49
40	430	70	64
45	555	98	79

TYPICAL MINOR/MAJOR URBAN COLLECTOR

NOT TO SCALE

2501 VPD ≤ 9000 VPD

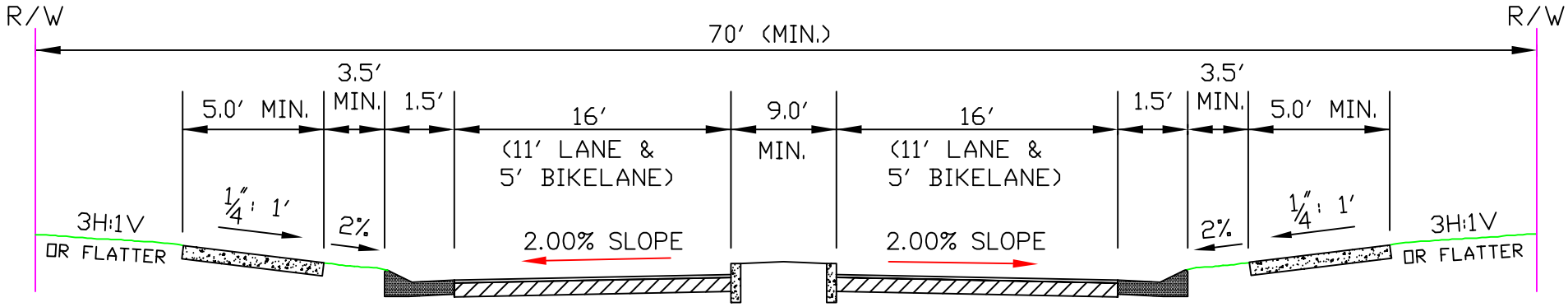
(1) No Residential Lot Access Allowed.

(2) No Sidewalk Adjacent to Curb Permitted.

(3) No Street Parking Allowed.

(4) If Classified As Major Collector, Min. R/W of 100 Ft. Will Be Required, With Two Lane Section, Offset To Facilitate Future Four (4) Lane Expansion.

ADDITIONAL R/W MAY BE REQUIRED AT INTERSECTIONS FOR TURNLANES.



DESIGN SPEED (MPH)	MIN. C/L RADIUS (FT.)	MIN "K" VALUE FOR V.C.	
		CREST	SAG
30	275	31	37
35	320	47	49
40	430	70	64
45	555	98	79

TYPICAL MINOR/MAJOR URBAN COLLECTOR BOULEVARD (4)

NOT TO SCALE

2501 VPD ≤ 9000 VPD

(1) No Residential Lot Access Allowed.

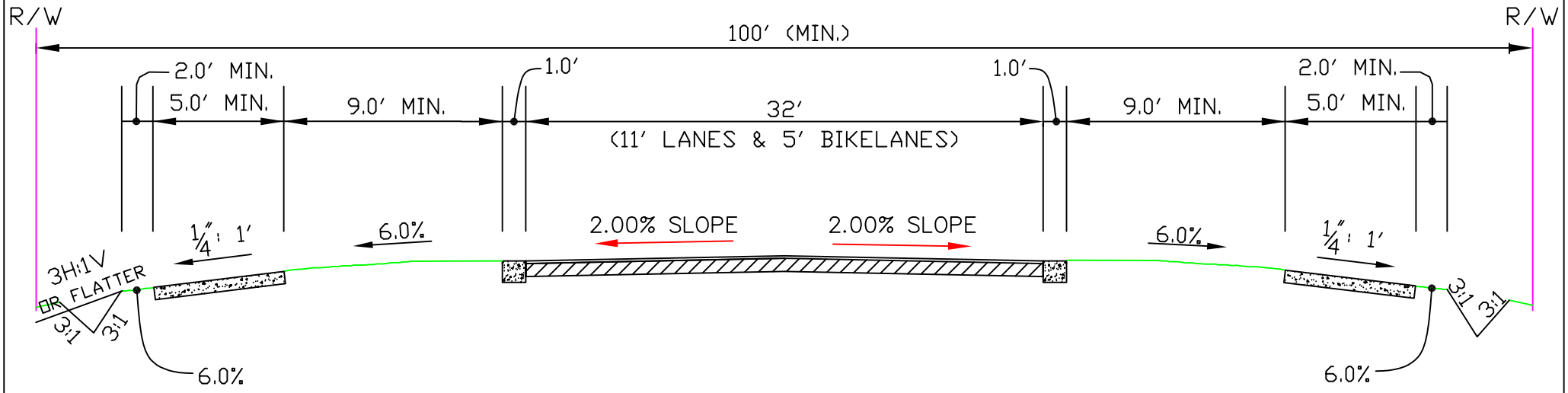
(2) No Sidewalk Adjacent to Curb Permitted.

(3) No Street Parking Allowed.

(4) Required When Only One Entrance For 50 Lots Or Greater.

(5) If Classified As Major Collector, Min. R/W of 100 Ft. Will Be Required To Facilitate Four (4) Lane Expansion.

ADDITIONAL R/W MAY BE REQUIRED AT INTERSECTIONS FOR TURNLANES.



DESIGN SPEED (MPH)	MIN. C/L RADIUS (FT.)	CLEAR ZONE (FT.)	MIN "K" VALUE FOR V.C.	
			CREST	SAG
30	275	10	31	37
35	320	10	47	49
40	430	10	70	64
45	555	18	98	79

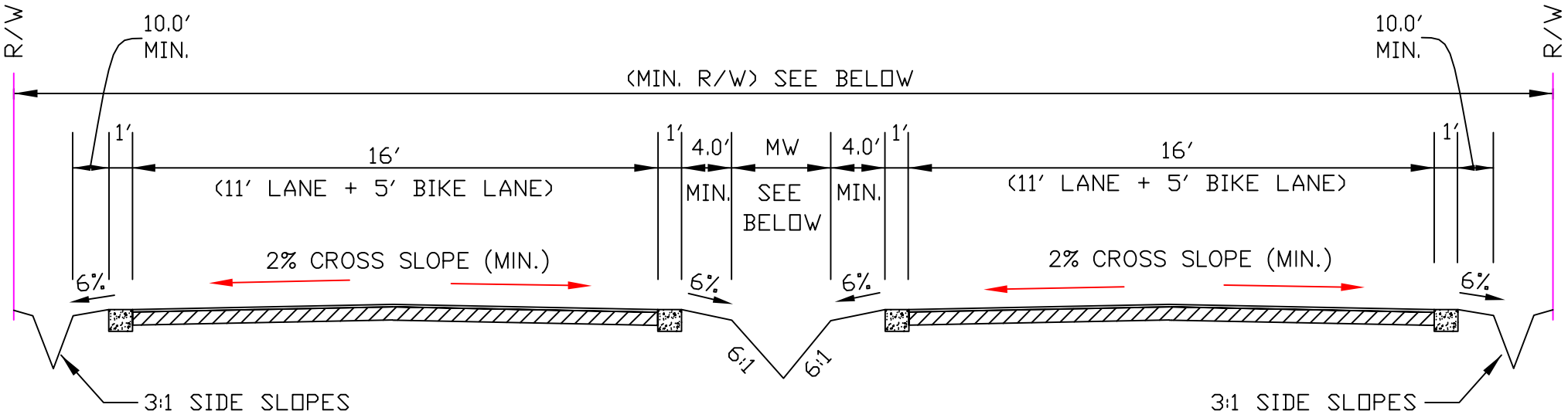
TYPICAL MINOR/MAJOR RURAL COLLECTOR

NOT TO SCALE

2501 VPD ≤ 9000 VPD

(1) No Residential Lot Access Allowed.
(2) No Sidewalk Adjacent to Curb Permitted.
(3) No Street Parking Allowed.
(4) No Sidewalk Within Clear Zone Permitted.
(5) 10' of Stabilized Subgrade May Be Used in Leiu of 1.0' Concrete Ribbon Curb.
(6) If Classified As Major Collector, Min. R/W of 150 Ft. Will Be Required, With Two Lane Section, Offset To Facilitate Future Four (4) Lane Expansion.

ADDITIONAL R/W MAY BE REQUIRED AT INTERSECTIONS FOR TURNLANES.



DESIGN SPEED (MPH)	MIN. R/W (FT.)	MW (FT.)	MIN. C/L RADIUS (FT.)	CLEAR ZONE (FT.)	MIN "K" VALUE FOR V.C.	
					CREST	SAG
30	100	21	275	10	31	37
35	100	21	320	10	47	49
40	100	21	430	10	70	64
45	120	37	555	18	98	79

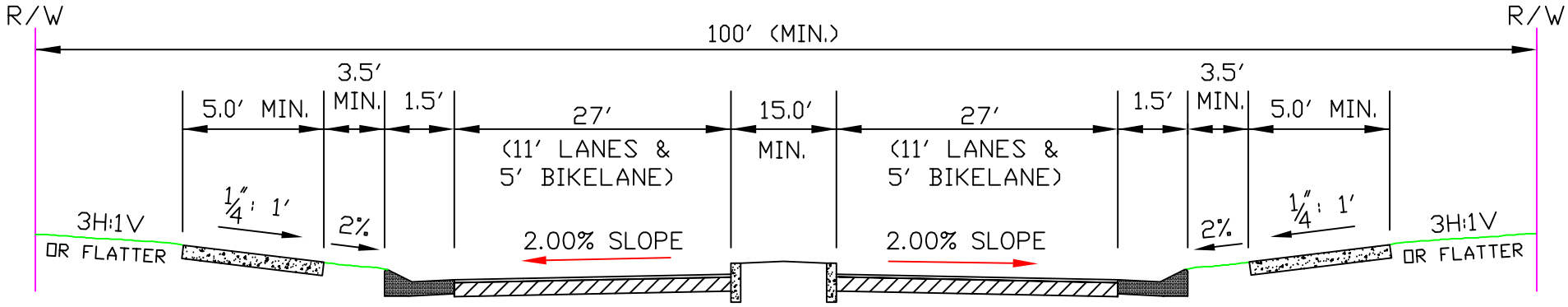
TYPICAL MINOR/MAJOR RURAL COLLECTOR BOULEVARD (3)

NOT TO SCALE

2501 VPD ≤ 9000 VPD

(1) No Residential Lot Access Allowed.
(2) No Sidewalk Within Clear Zone Permitted.
(3) Required Only When One Entrance For 50 Lots Or Greater.
(4) 10' of Stabilized Subgrade May Be Used in Leiu of 1.0' Concrete Ribbon Curb.
(5) Sidewalks Are Required On Both Sides Of Roadway. Adjust R/W Accordingly.
(6) If Classified As Major Collector, Min. R/W of 150 Ft. Will Be Required To Facilitate Future Four (4) Lane Expansion.

ADDITIONAL R/W MAY BE REQUIRED AT INTERSECTIONS FOR TURNLANES.



DESIGN SPEED (MPH)	MIN. C/L RADIUS (FT.)	MIN "K" VALUE FOR V.C.	
		CREST	SAG
30	275	31	37
35	320	47	49
40	430	70	64
45	555	98	79

TYPICAL MAJOR URBAN COLLECTOR BOULEVARD (4)

NOT TO SCALE

> 9000 VPD

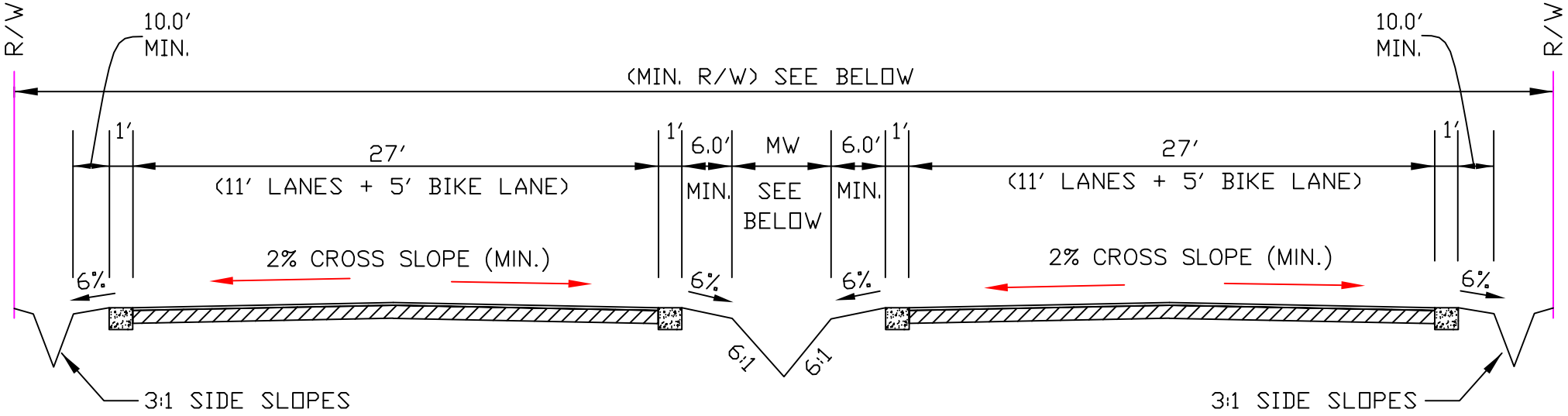
(1) No Residential Lot Access Allowed.

(2) No Sidewalk Adjacent to Curb Permitted.

(3) No Street Parking Allowed.

(4) Required When Only One Entrance For 50 Lots Or Greater.

ADDITIONAL R/W MAY BE REQUIRED AT INTERSECTIONS FOR TURNLANES.



DESIGN SPEED (MPH)	MIN. R/W (FT.)	MW (FT.)	MIN. C/L RADIUS (FT.)	CLEAR ZONE (FT.)	MIN "K" VALUE FOR V.C.	
					CREST	SAG
30	130	21	230	10	31	37
35	130	21	320	10	47	49
40	130	21	430	10	70	64
45	150	37	555	18	98	79

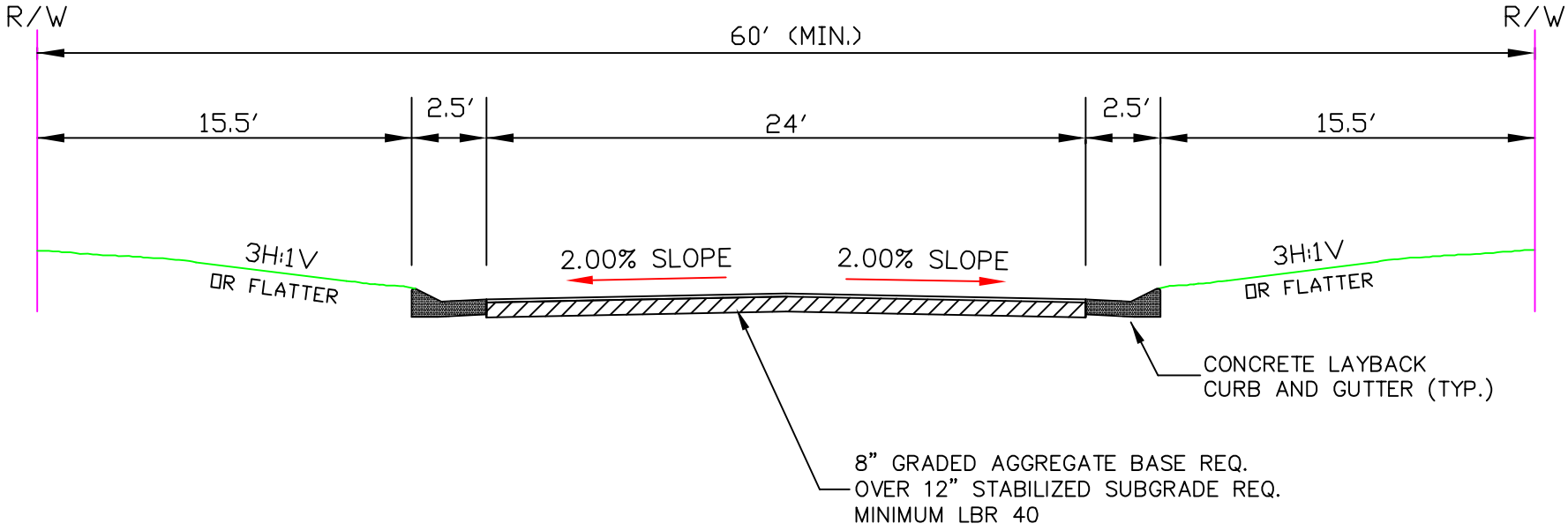
TYPICAL MAJOR COLLECTOR RURAL DIVIDED SECTION

NOT TO SCALE

> 9000 VPD

(1) No Residential Lot Access Allowed.
(2) No Sidewalk Within Clear Zone Permitted.
(3) No Street Parking Allowed.
(4) 10' of Stabilized Subgrade May Be Used in Leiu of 1.0' Concrete Ribbon Curb.
(5) Sidewalks Are Required On Both Sides Of Roadway. Adjust R/W Accordingly.

ADDITIONAL R/W MAY BE REQUIRED AT INTERSECTIONS FOR TURNLANES.



DESIGN SPEED (MPH)	MIN. C/L RADIUS (FT.)	MIN "K" VALUE FOR V.C. (1)	
		CREST	SAG
25	166	31	37
30	275	31	37
35	320	47	49

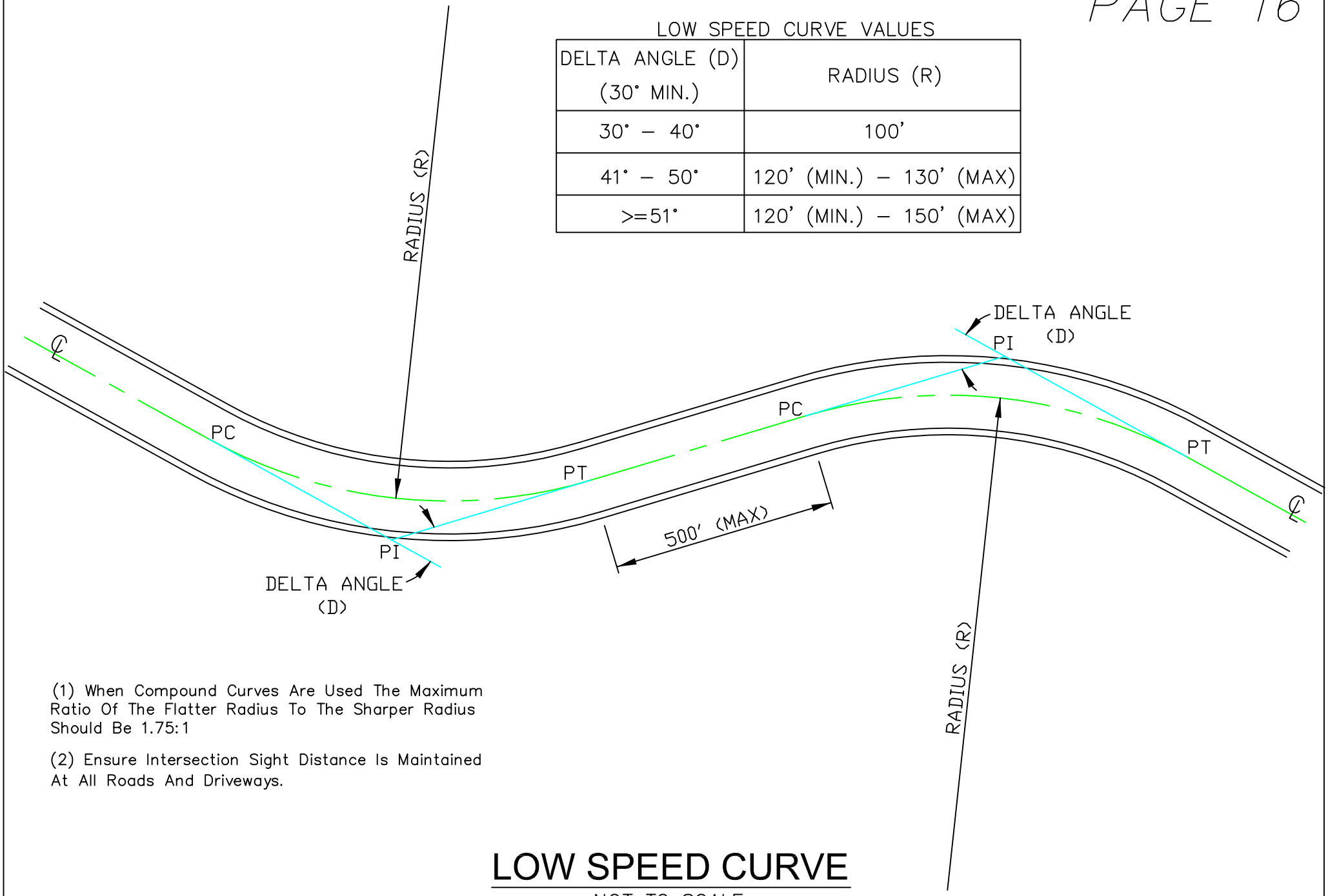
TYPICAL COMMERCIAL/INDUSTRIAL STREET

NOT TO SCALE

ADDITIONAL R/W MAY BE REQUIRED AT INTERSECTIONS FOR TURNLANES.

LOW SPEED CURVE VALUES

DELTA ANGLE (D) (30° MIN.)	RADIUS (R)
30° – 40°	100'
41° – 50°	120' (MIN.) – 130' (MAX)
>=51°	120' (MIN.) – 150' (MAX)

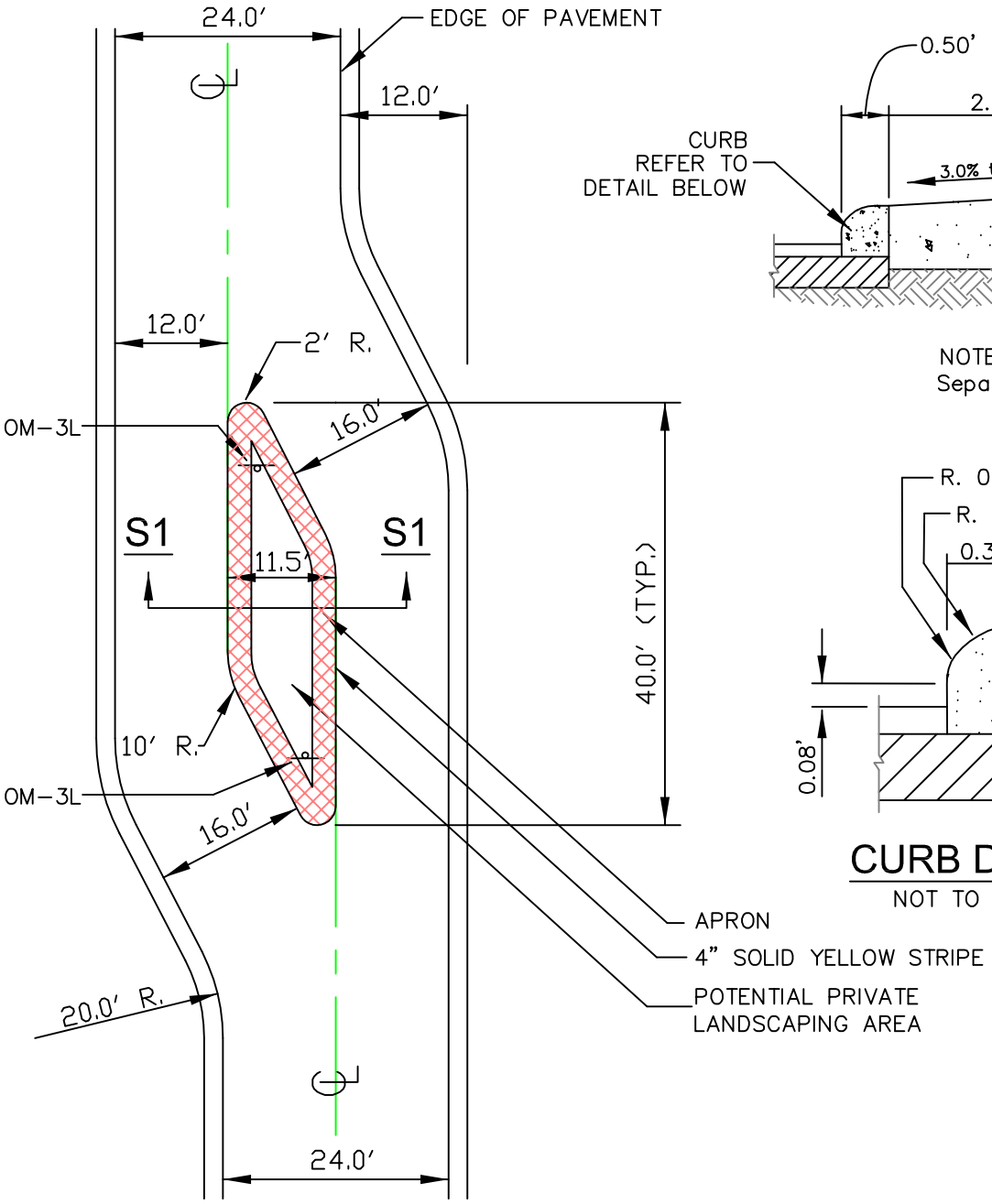


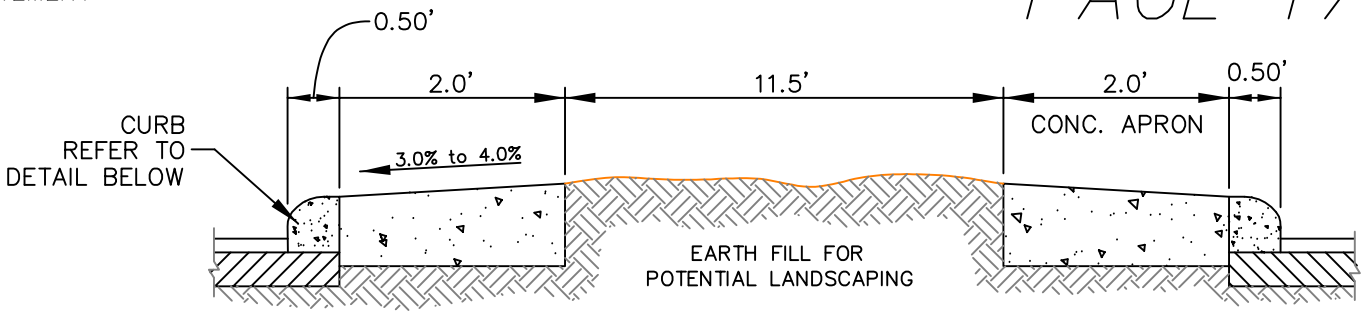
(1) When Compound Curves Are Used The Maximum Ratio Of The Flatter Radius To The Sharper Radius Should Be 1.75:1

(2) Ensure Intersection Sight Distance Is Maintained At All Roads And Driveways.

LOW SPEED CURVE

NOT TO SCALE

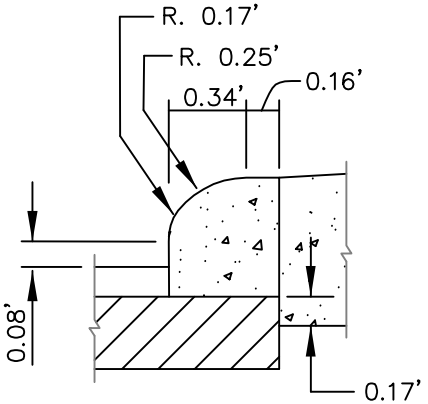




NOTE: Contractor May Use Modified FDOT Type I Concrete Traffic Separator Option I In Lieu Of Curb And Apron As Shown Above.

SECTION S1-S1

NOT TO SCALE



CURB DETAIL

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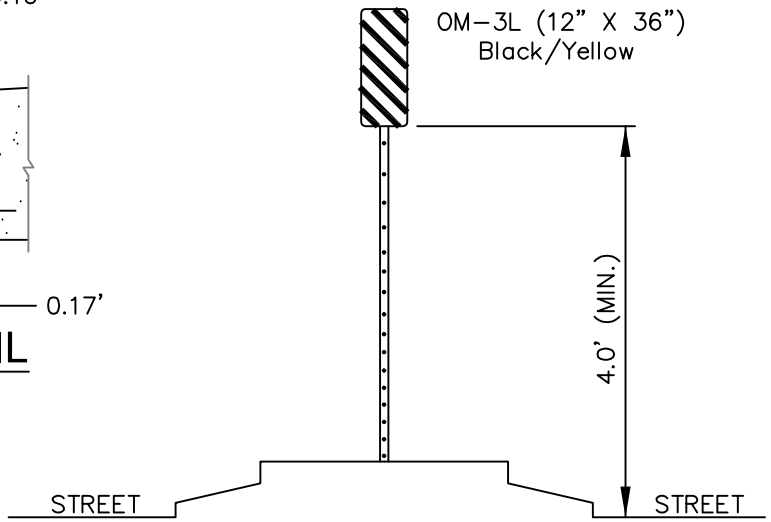


TYPICAL SIGNAGE INSTALLATION

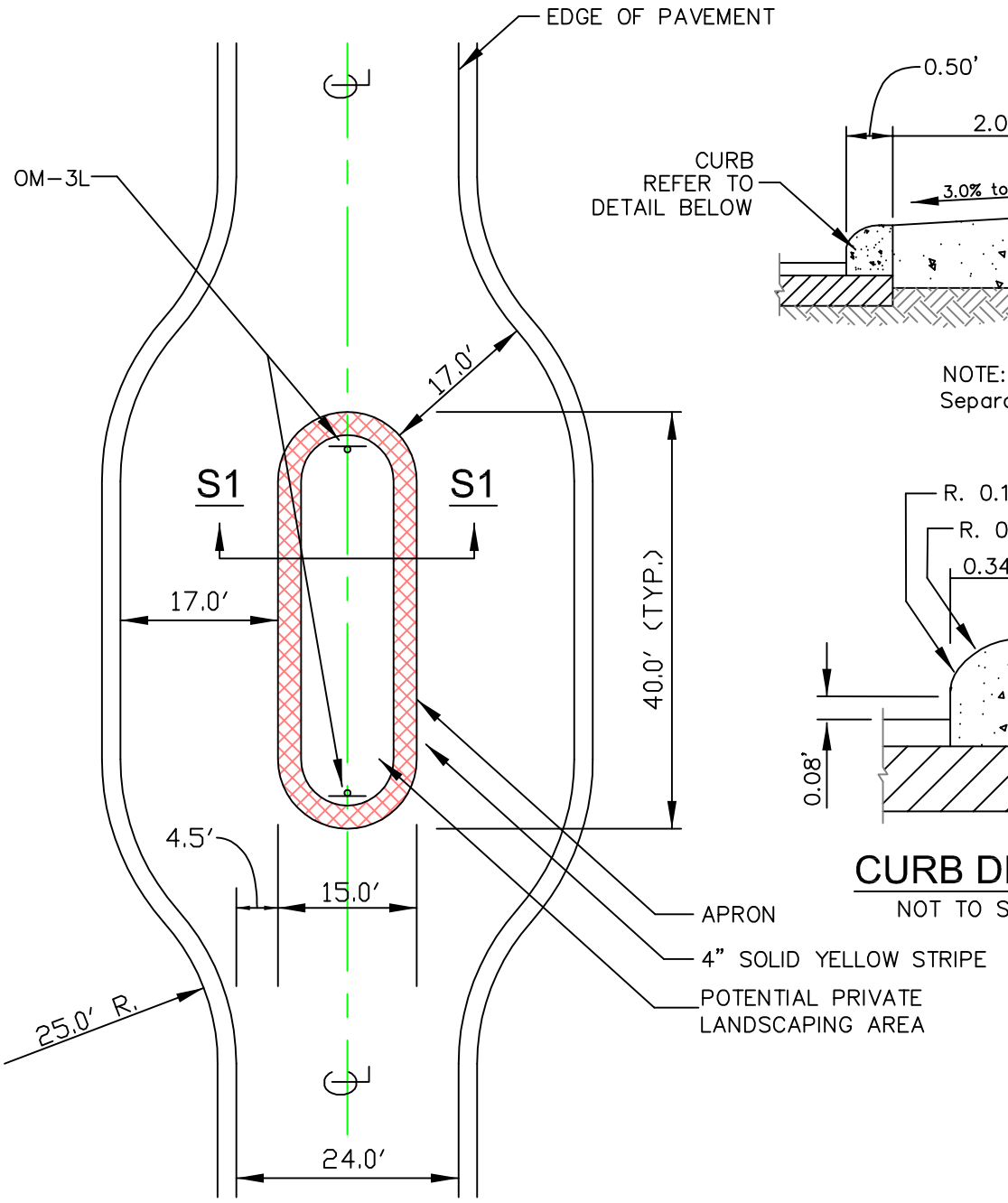
NOT TO SCALE

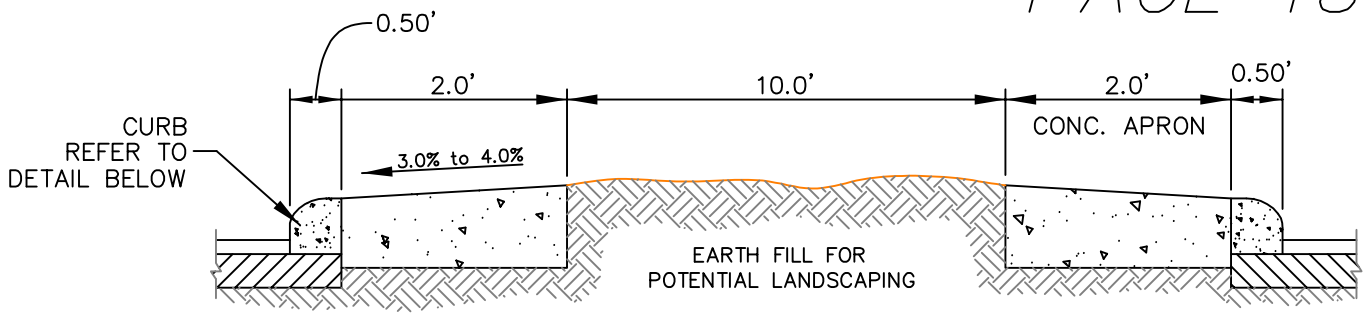
LATERAL SHIFT

NOT TO SCALE

SIGN DESCRIPTION:
OM-3L OBJECT MAKER

NOTE: DRIVEWAYS SHALL NOT BE LOCATED WITHIN 20' OF MEDIAN ISLAND

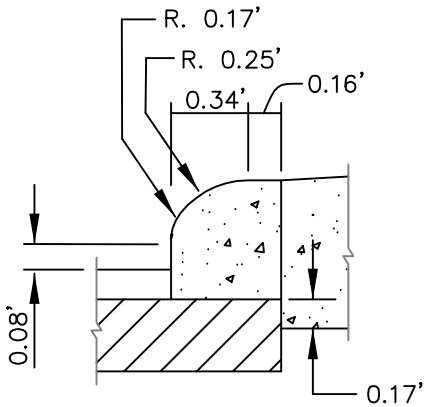




NOTE: Contractor May Use Modified FDOT Type I Concrete Traffic Separator Option I In Lieu Of Curb And Apron As Shown Above.

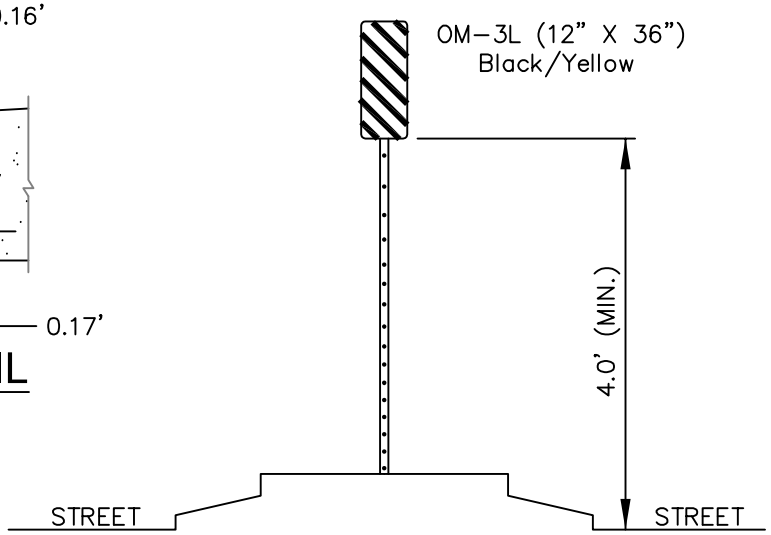
SECTION S1-S1

NOT TO SCALE



CURB DETAIL

NOT TO SCALE



TYPICAL SIGNAGE INSTALLATION

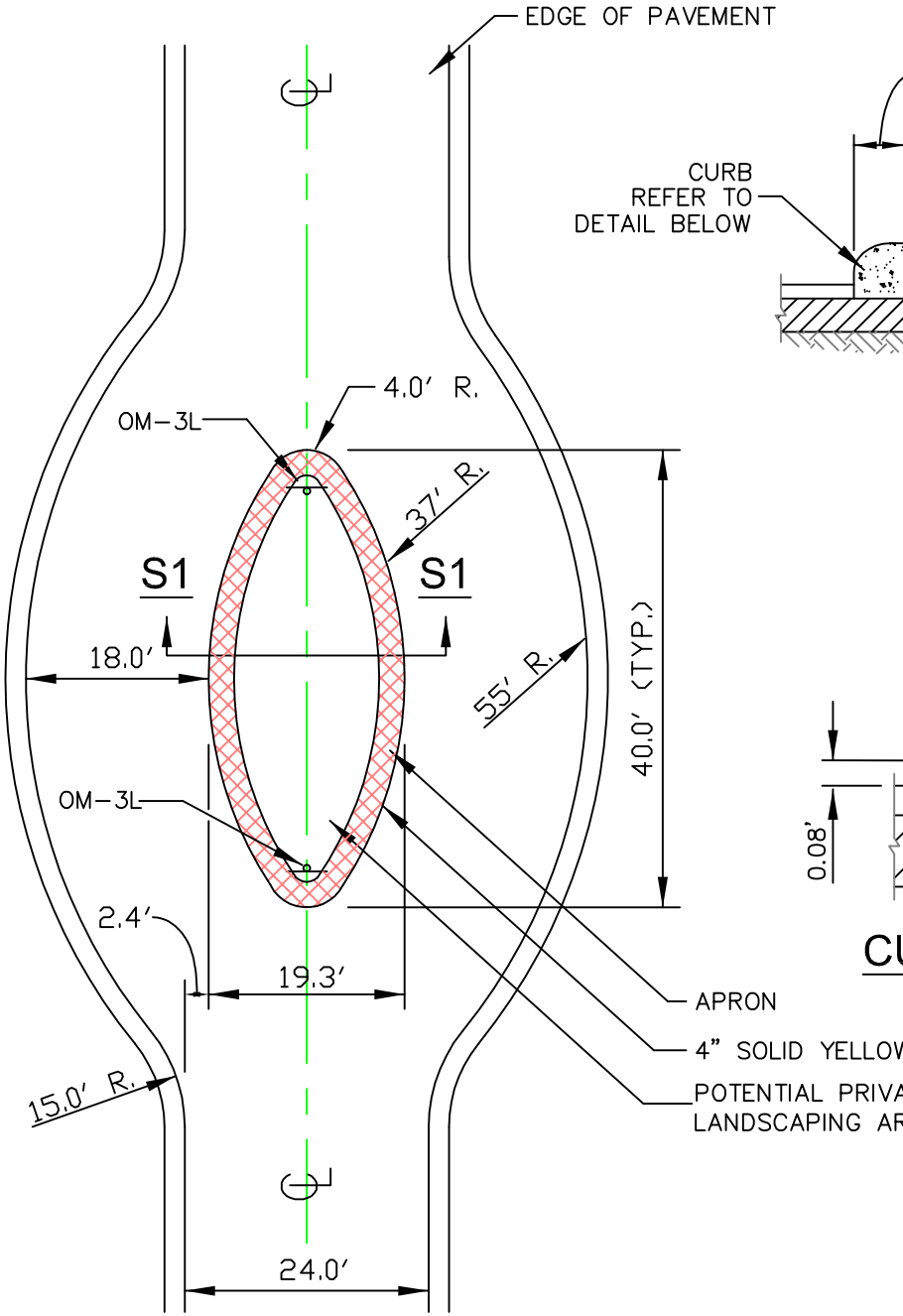
NOT TO SCALE

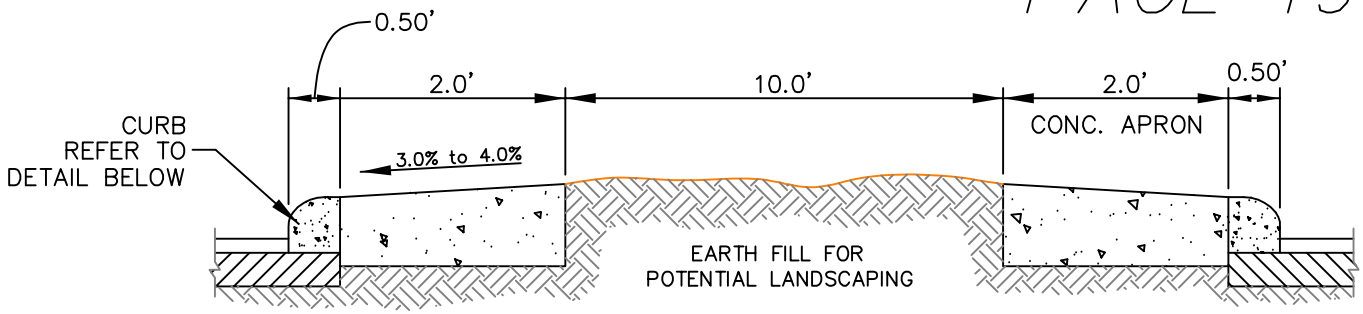
MEDIAN ISLAND OPTION #1

NOT TO SCALE

SIGN DESCRIPTION:
OM-3L OBJECT MAKER

NOTE: DRIVEWAYS SHALL NOT BE LOCATED WITHIN 20' OF MEDIAN ISLAND

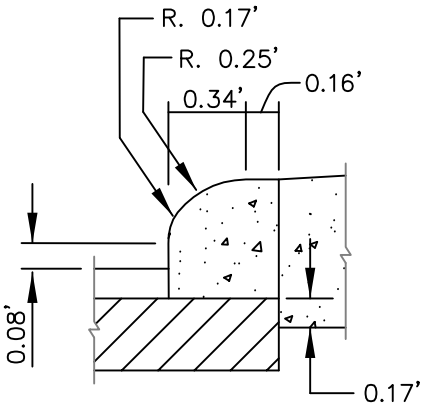




NOTE: Contractor May Use Modified FDOT Type I Concrete Traffic Separator Option I In Lieu Of Curb And Apron As Shown Above.

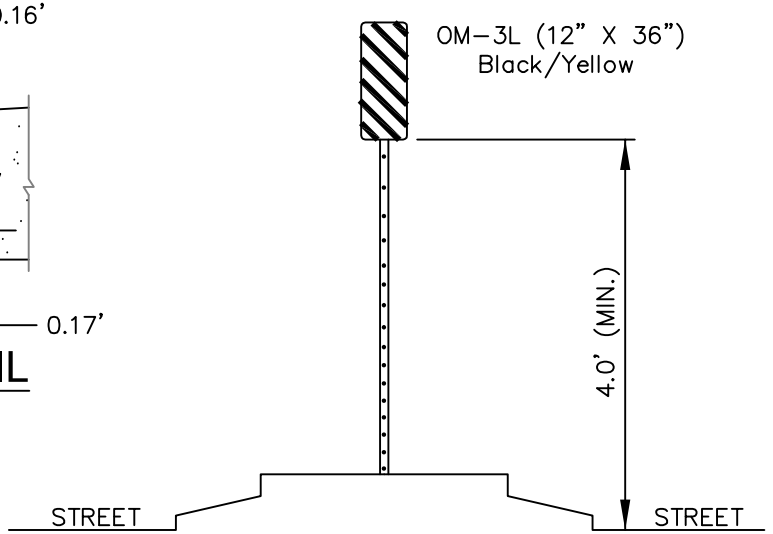
SECTION S1-S1

NOT TO SCALE



CURB DETAIL

NOT TO SCALE



TYPICAL SIGNAGE INSTALLATION

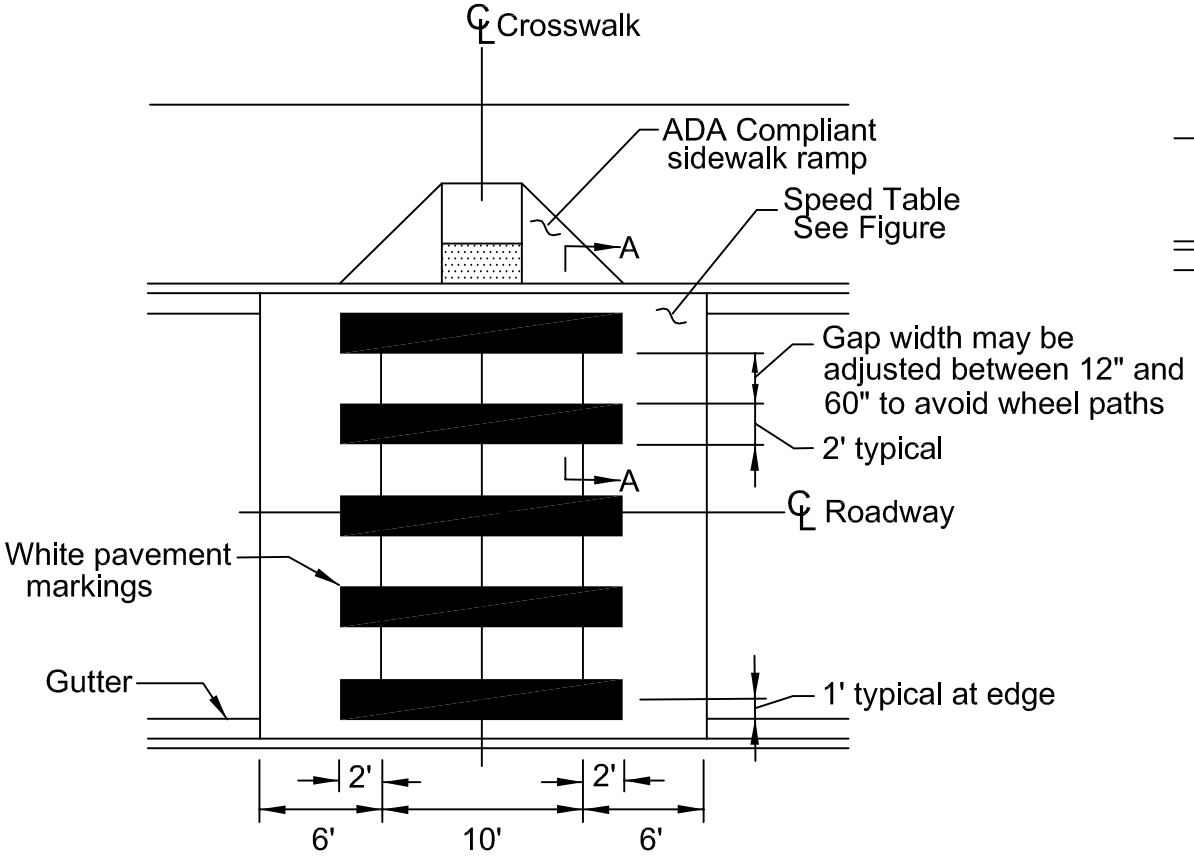
NOT TO SCALE

MEDIAN ISLAND OPTION #2

NOT TO SCALE

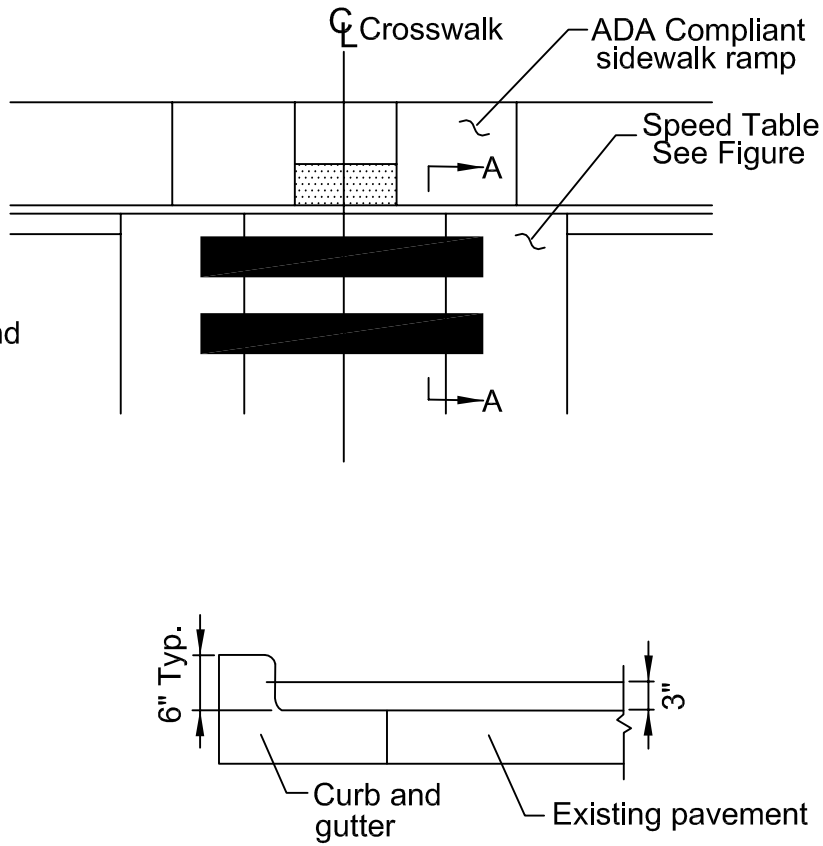
NOTE: DRIVEWAYS SHALL NOT BE LOCATED WITHIN 20' OF MEDIAN ISLAND

SIGN DESCRIPTION:
OM-3L OBJECT MAKER



MARKING DETAIL

NOT TO SCALE

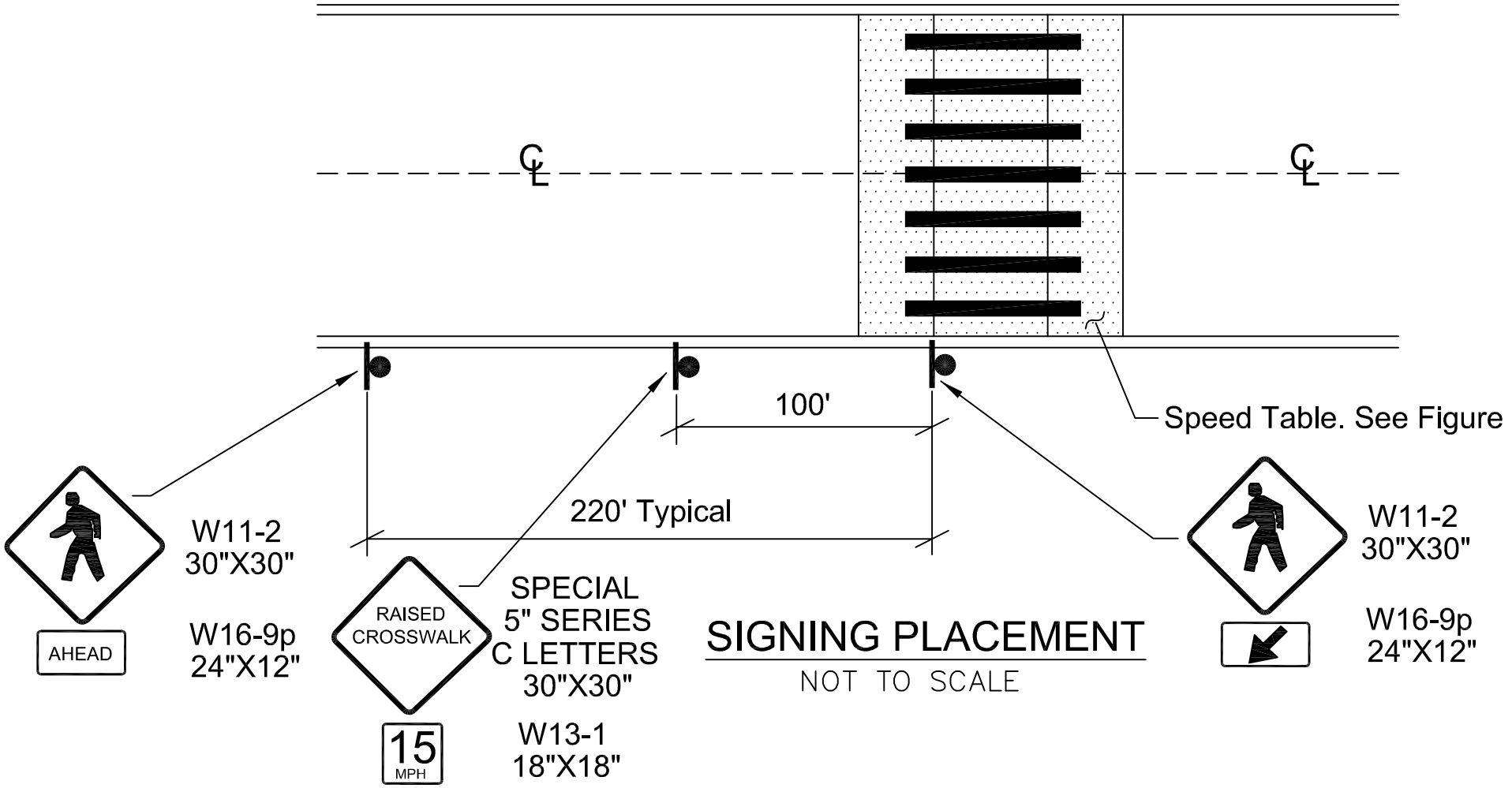


SECTION A-A

NOT TO SCALE

Note: All Stripeing Shall Be Thermoplastic. No Pre-Manufactured Stripeing (Tape) Will Be Permitted.

RAISED CROSSWALK



SIGNING PLACEMENT

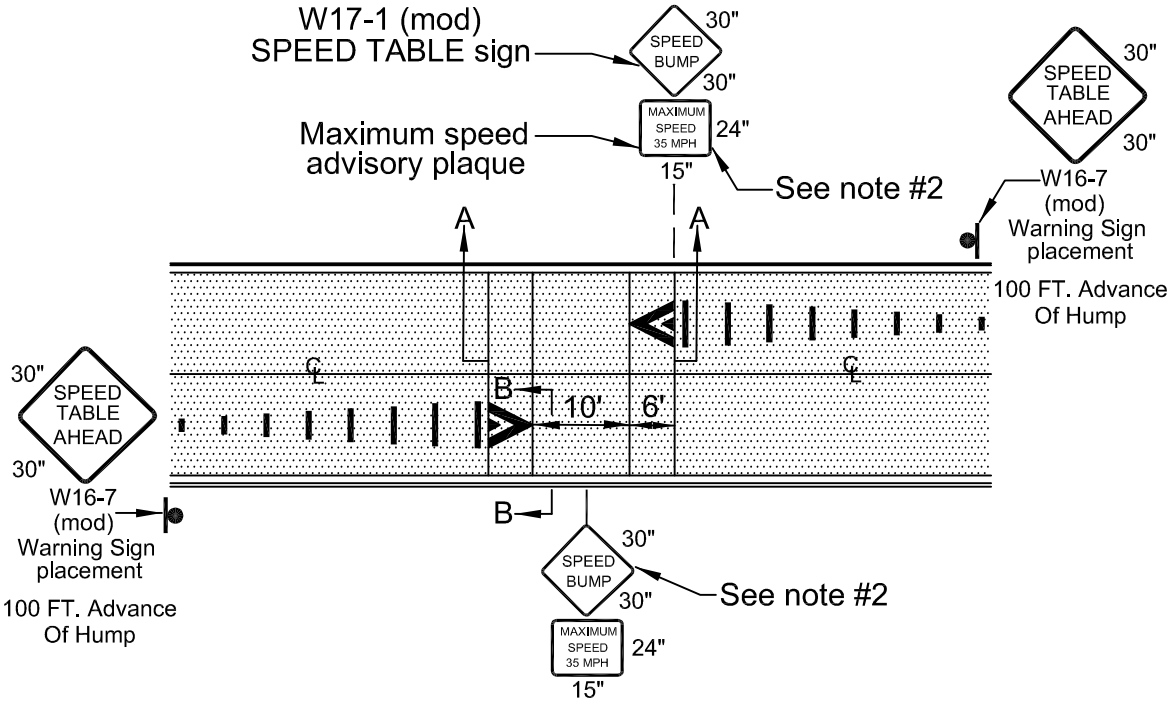
NOT TO SCALE

SIGNING DETAIL

Notes:

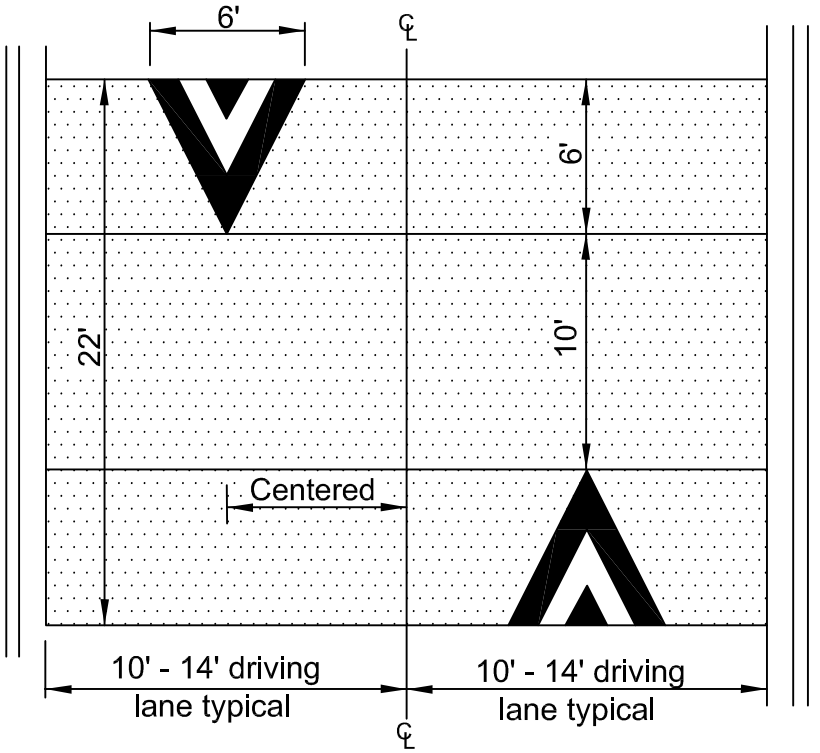
1. Signs Have Yellow Background With Black Legend And Border.

RAISED CROSSWALK SIGNING



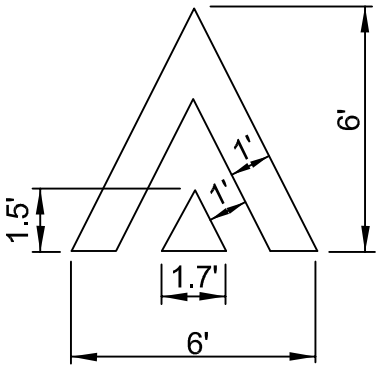
SPEED TABLE MARKING AND SIGNING

NOT TO SCALE



MARKING DETAIL

NOT TO SCALE

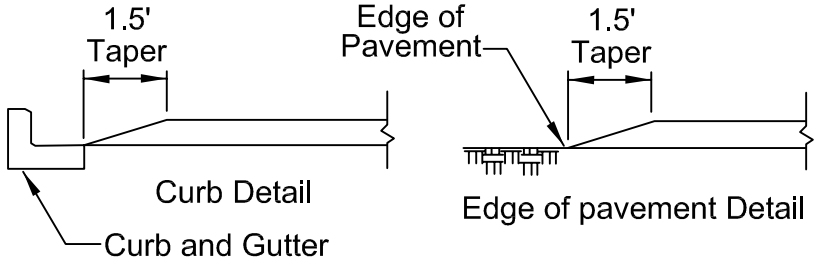


CHEVRON DETAIL

NOT TO SCALE

(1) Speed Table Chevron Marking Shall Be Themoplastic. No Pre–Manufactured Stripeing (Tape) Allowed.

(2) For A Series Of Speed Tables, Use The Advisory Speed Plaque At Only The First Speed Table In Each Direction Of Travel.

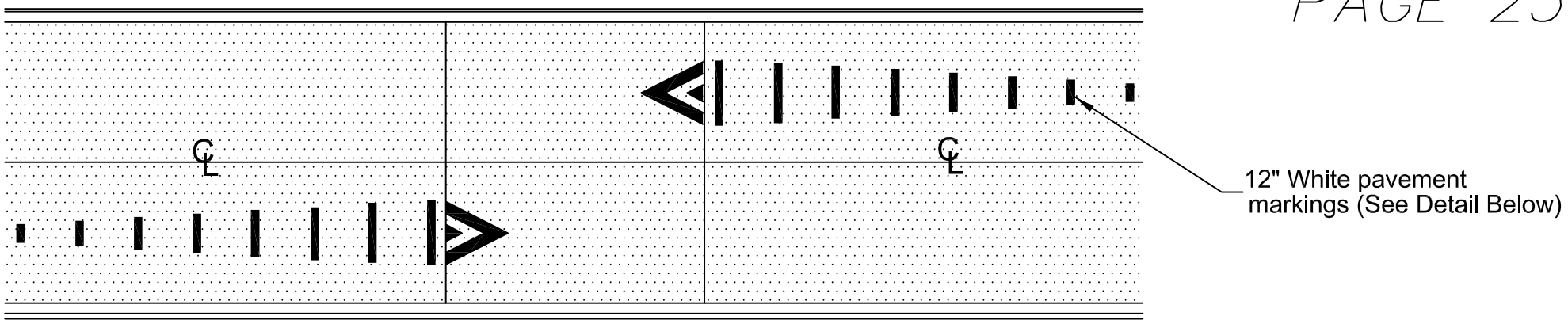


SECTION B-B

NOT TO SCALE

SPEED TABLE

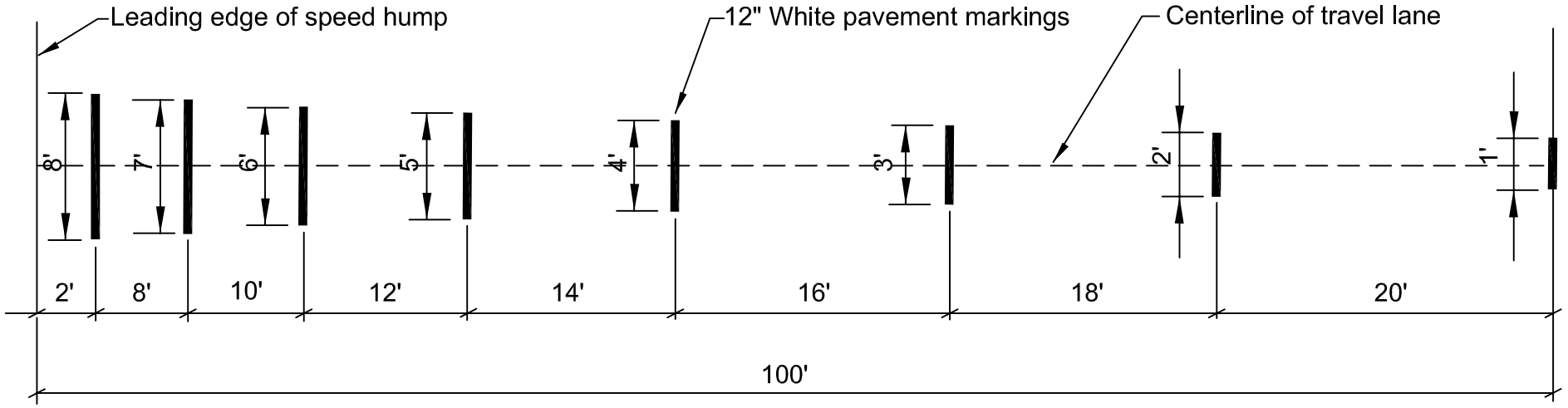
NOT TO SCALE



SPEED TABLE MARKING

NOT TO SCALE

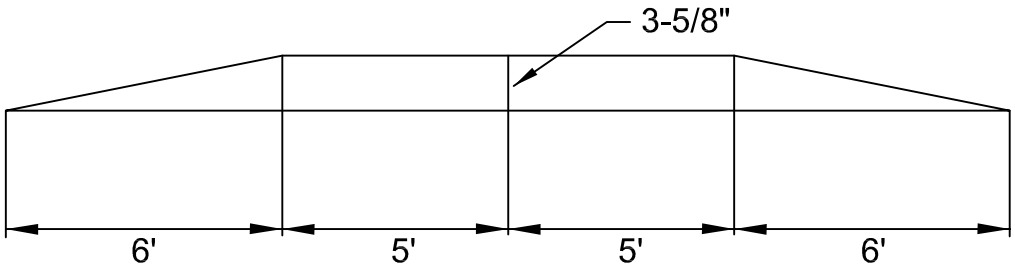
Note: All Stripeing Shall Be Thermoplastic. No Pre-Manufactured Stripeing (Tape) Will Be Permitted.

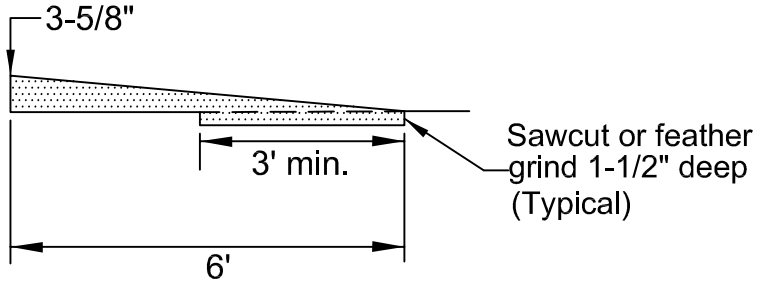


SPEED TABLE ADVANCE WARNING MARKINGS DETAIL

NOT TO SCALE

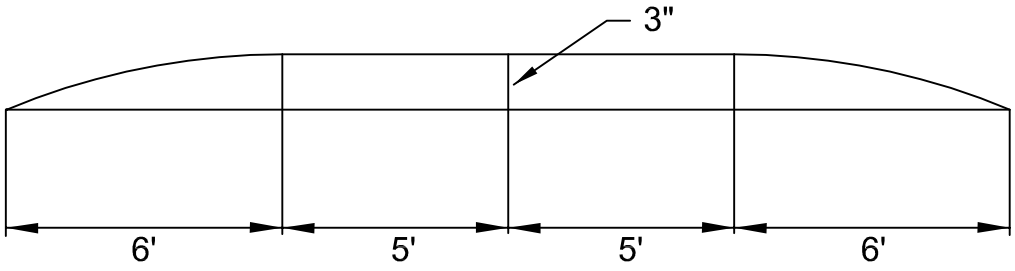
SPEED TABLE ADVANCE WARNING MARKINGS

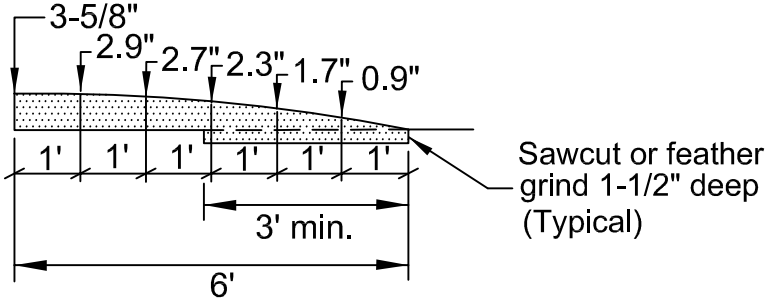




SECTION A-A (STRAIGHT RAMP)

NOT TO SCALE





SECTION A-A (PARABOLIC RAMP)

NOT TO SCALE

SPEED TABLE DETAILS