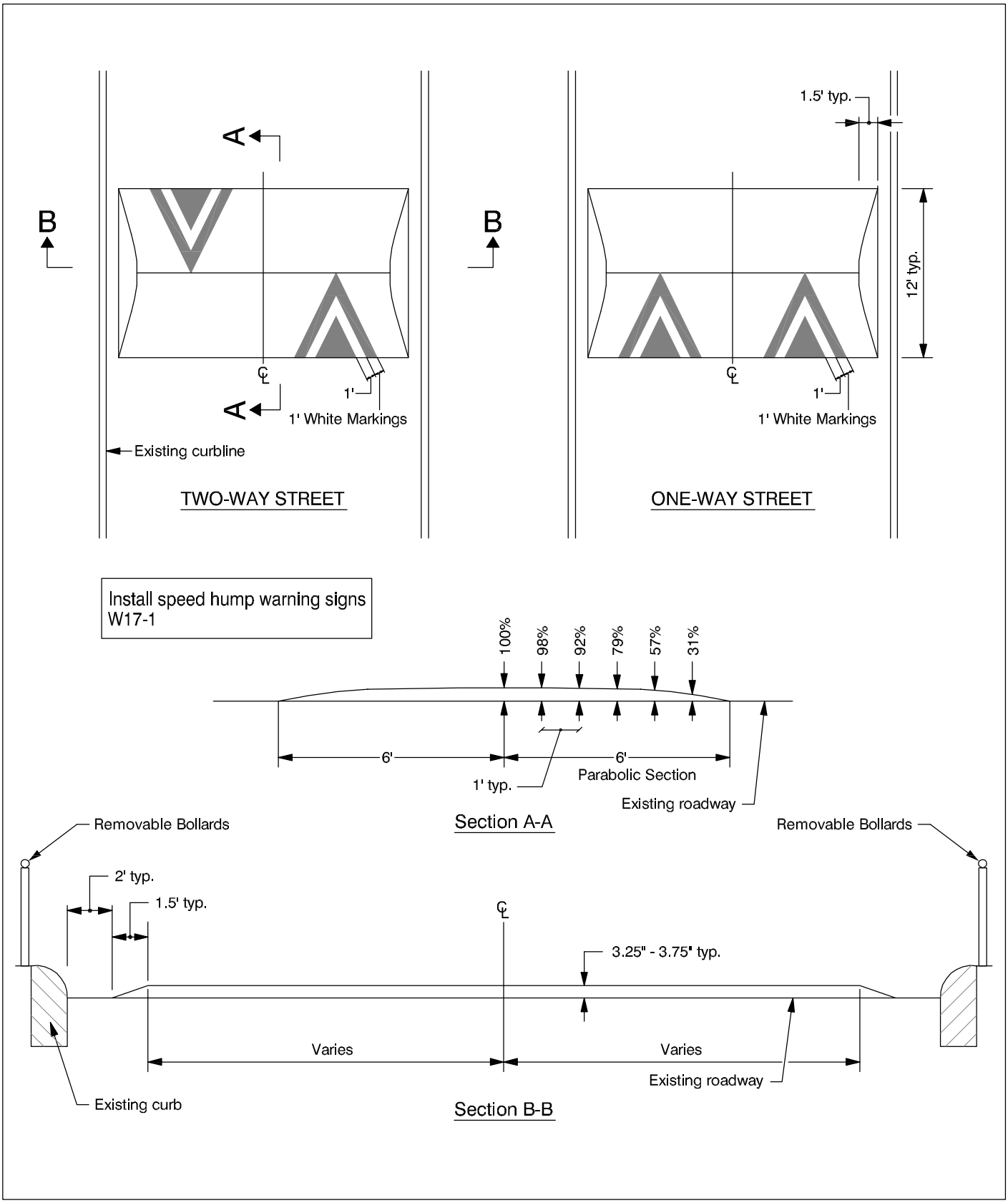
APPENDIX C – STANDARD TRAFFIC CALMING TEMPLATES

Standard neighborhood traffic management device designs are provided for the following measures. Measures that do not have standard designs should be designed according to each situation specific to the roadway and traffic conditions.

Measure	Figure
Speed Hump (parabolic profile)	C-1a
Speed Hump (sinusoidal profile)	C-1b
Speed Lump	C-2
Speed Table	C-3
Raised Crosswalk	C-4
Raised Intersection	C-5
Vertical Device – Advance Warning Markings	C-6
Neckdown/Bulbout (intersection)	C-7
Neckdown/Bulbout (midblock)	C-8
Center Island Narrowing	C-9
Two-lane Choker	C-10
Traffic Circle	C-11
Chicane	C-12
Partial Closure	C-13
Diagonal Diverter	C-14
Median Barrier	C-15
Forced Turn Island	C-16



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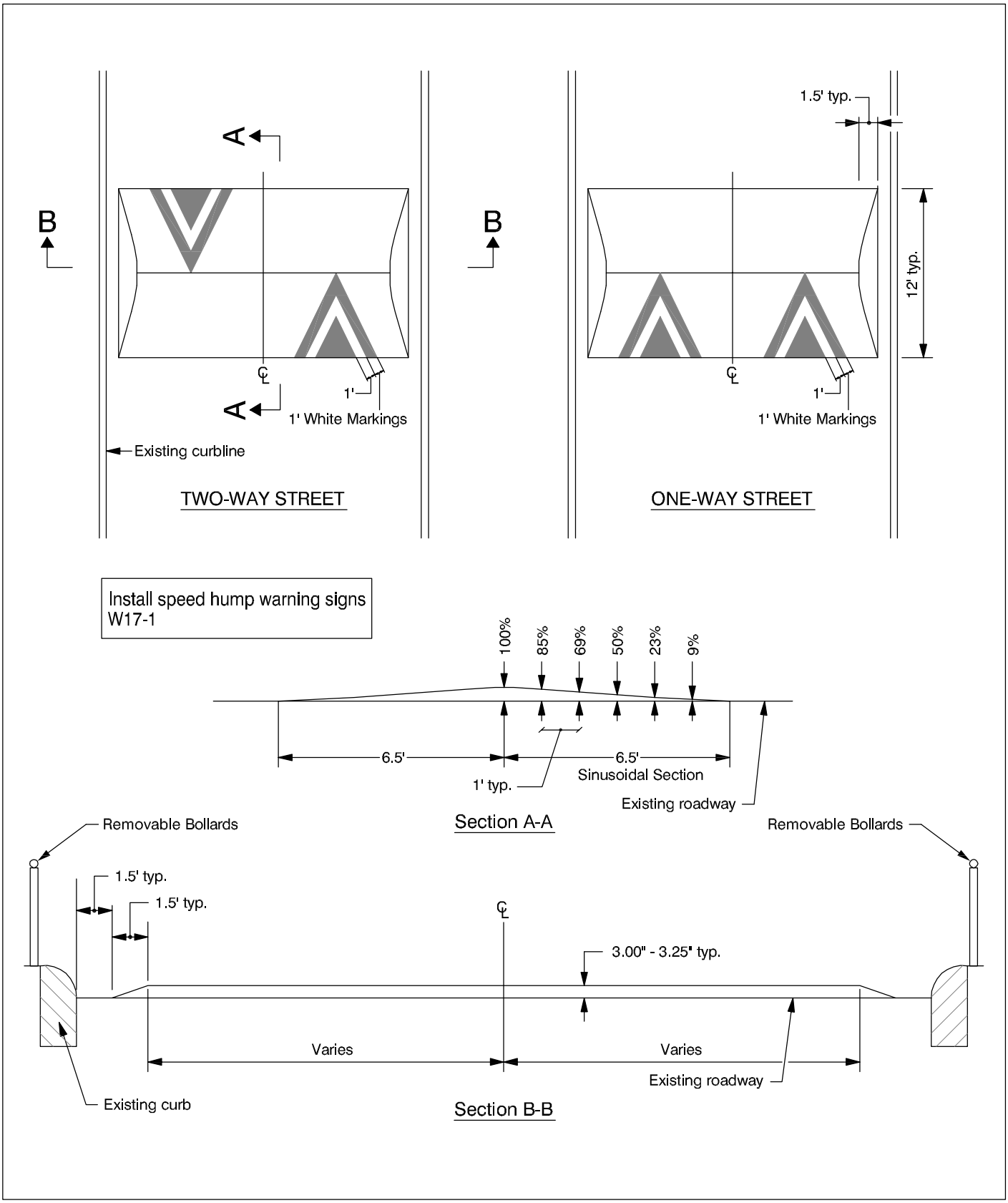
SPEED HUMP - PARABOLIC PROFILE

FIGURE C-1A



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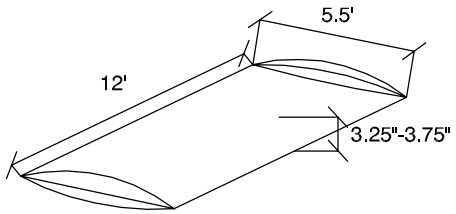
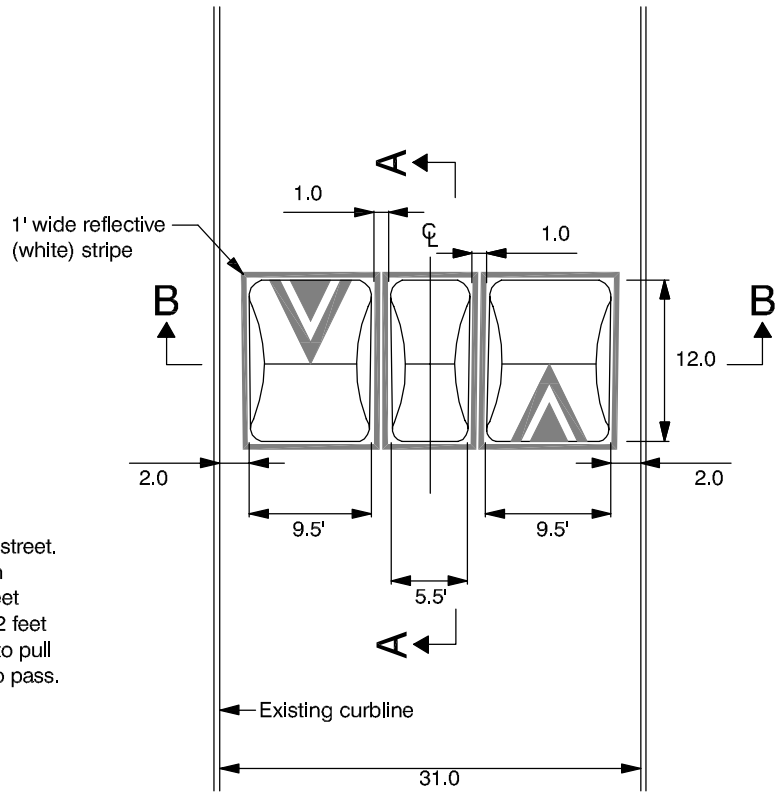
SPEED HUMP - SINUSOIDAL PROFILE

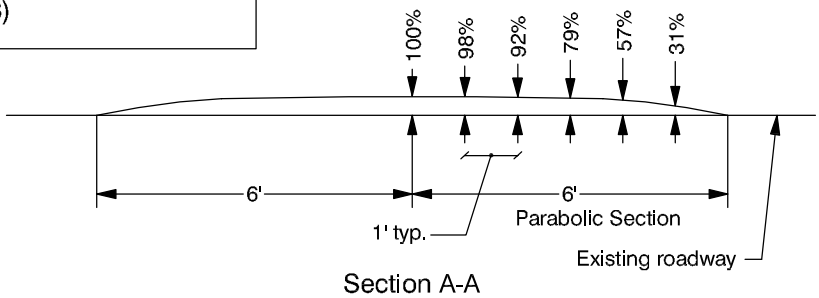
FIGURE C-1B



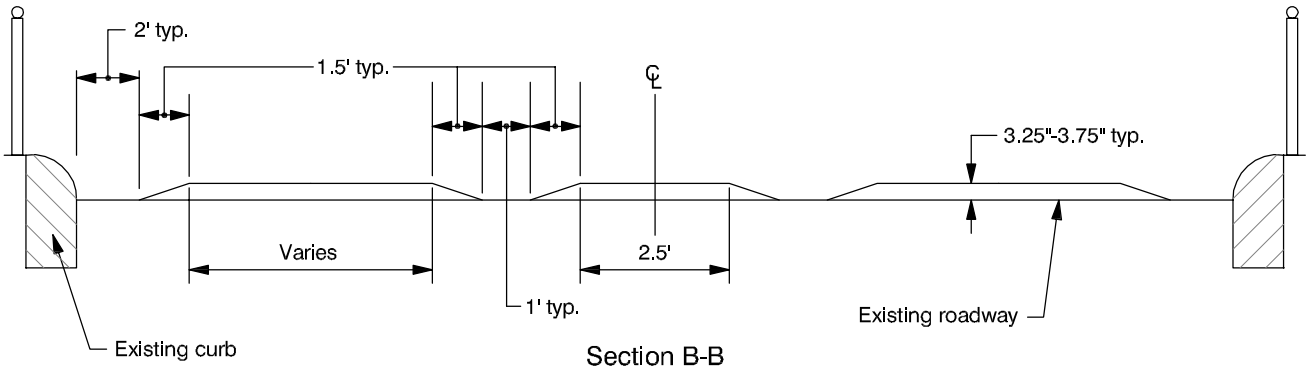


The speed cushion drawing shown is for a 31-foot wide street. If a street is wider, another cushion may be added. Each center cushion (only one shown) is 12 feet deep, 5 ½ feet wide, 1 foot between outer lumps and center lump and 2 feet from curb & drainage. It may be necessary for vehicles to pull to the right and allow an opposing emergency vehicle to pass.

Install speed cushion warning signs
(See Figure A-3)



Section A-A



Section B-B

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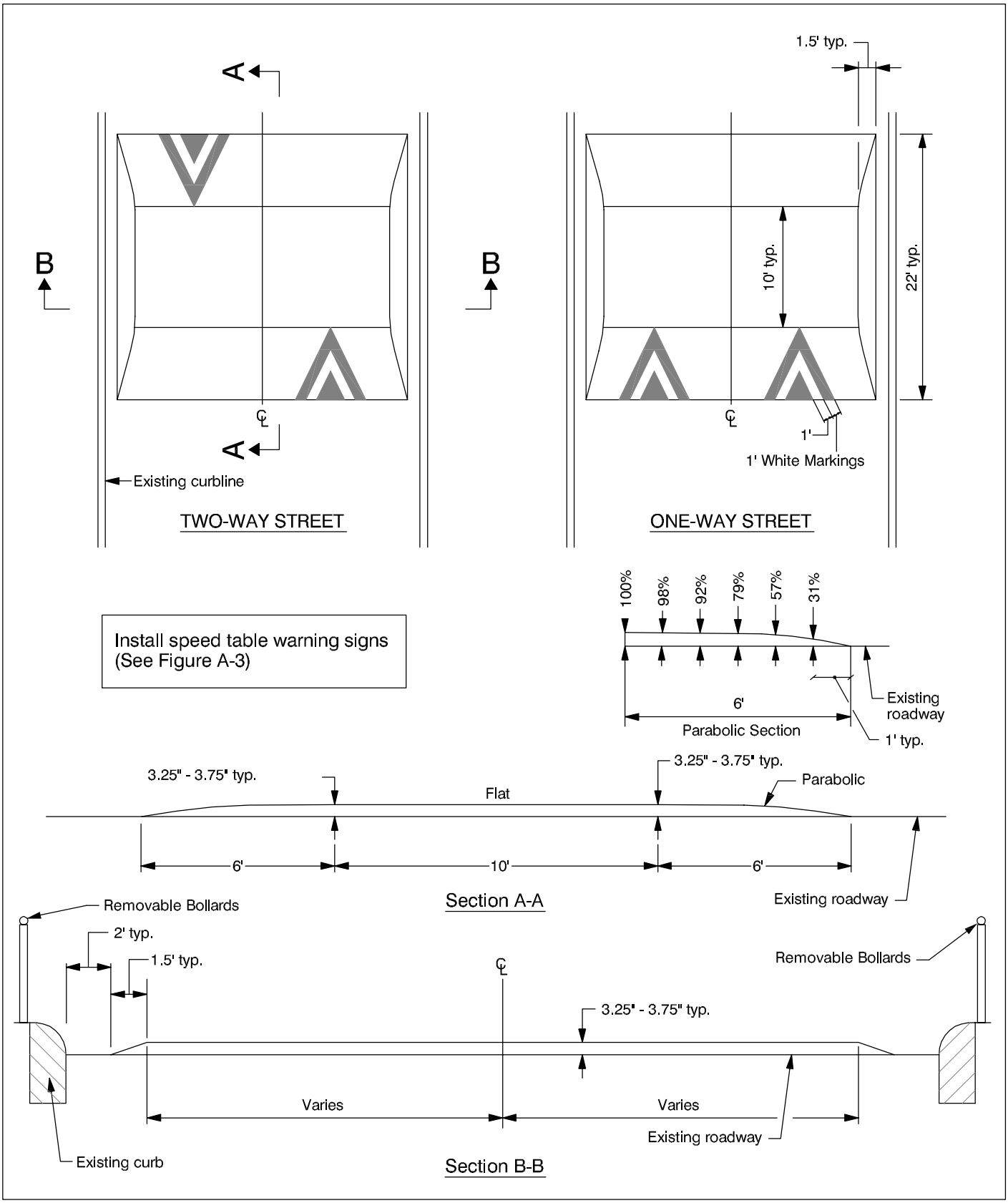
N:\Projects\RS05\2197_Placer_NTMP\Graphics\StandardDesigns\figC-2_speed_cush.dwg

SPEED CUSHION

FIGURE C-2



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SPEED TABLE

FIGURE C-3

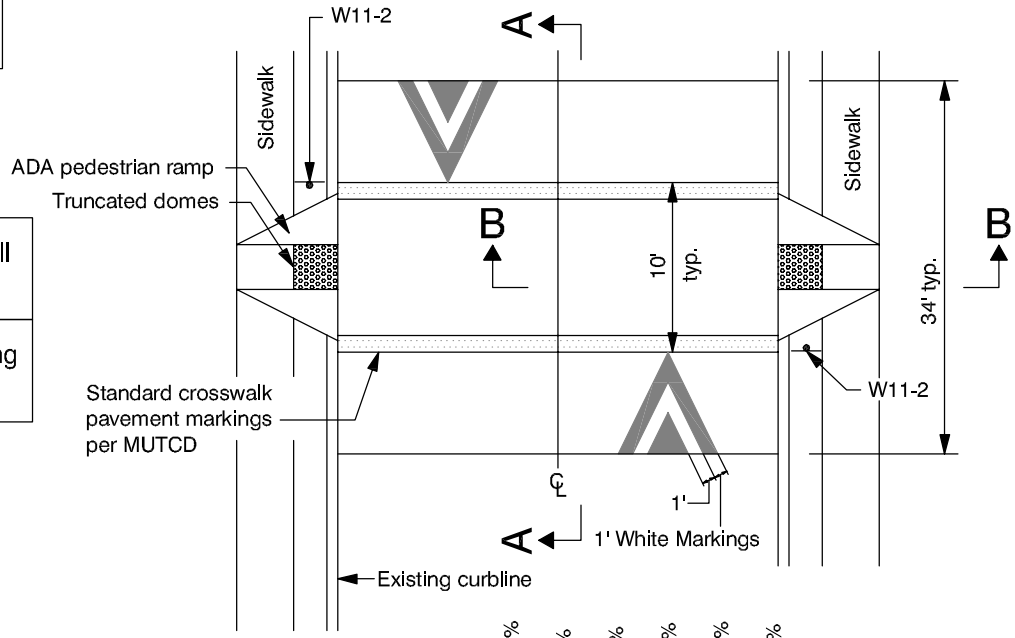
Sign Description

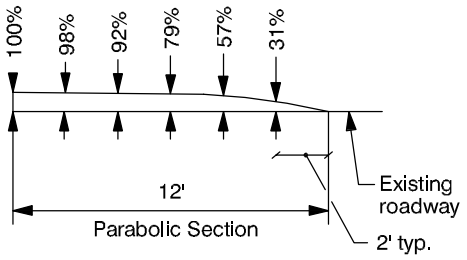
W11-2 Pedestrian Crossing

Inlets are required on the uphill side of a raised crosswalk

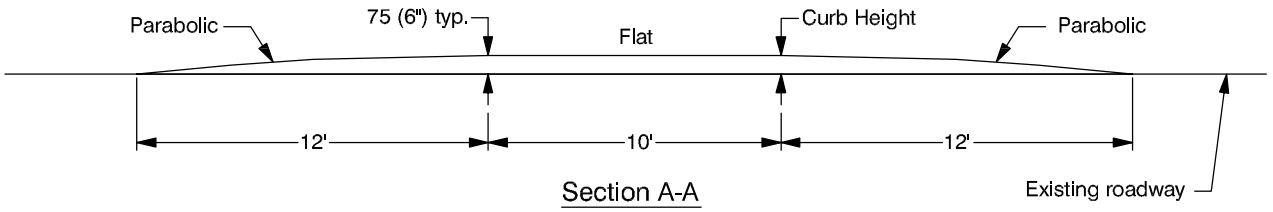
Install raised crosswalk warning signs (Shown below)

RAISED CROSSWALK

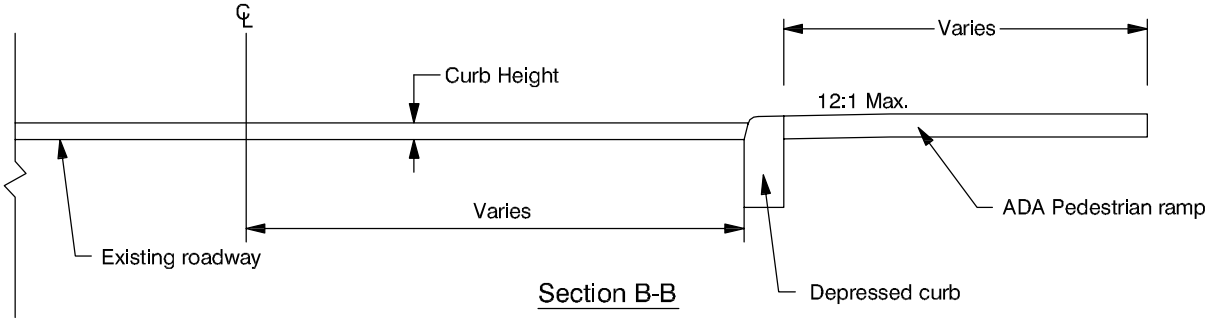




Sign Dimensions	Color Code		
	Background	Message	Border
30" x 30"	Flourescent Yellow or Yellow-Green	Black	Black



Section A-A



Section B-B

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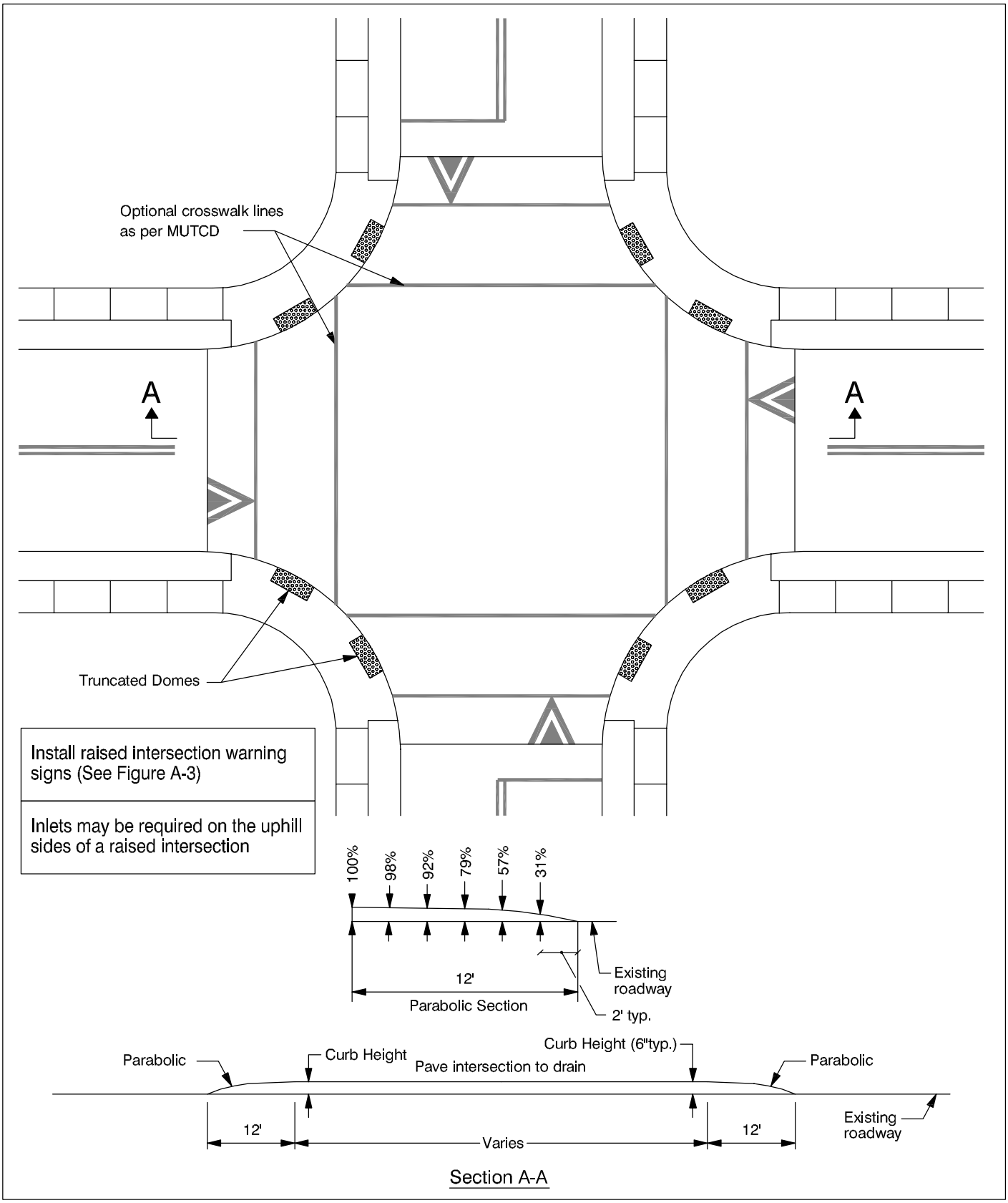
RAISED CROSSWALK

FIGURE C-4



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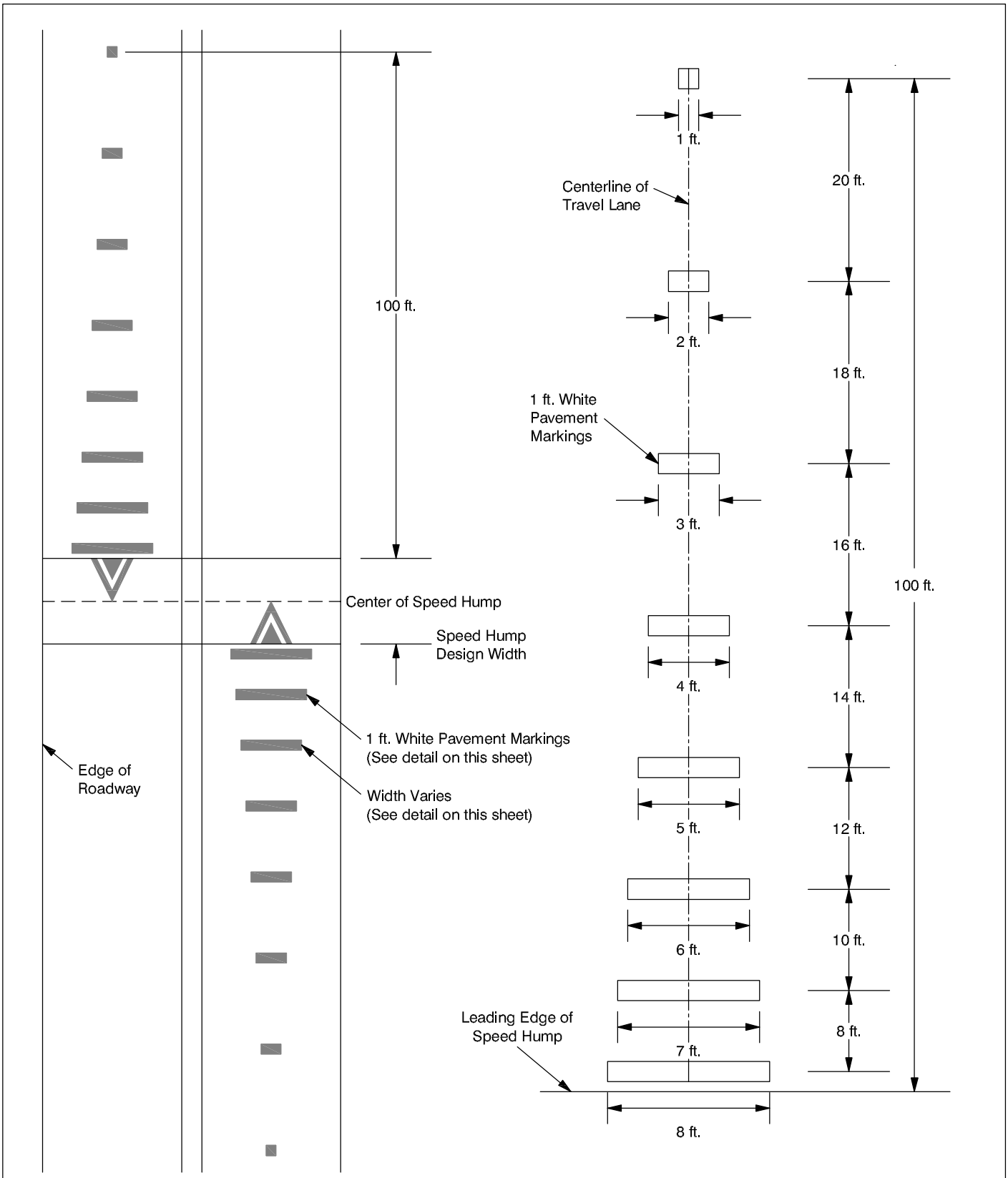
N:\Projects\RS05\2197_Placer_NTMP\Graphics\StandardDesigns\figC-5_raised_intersection.dwg

RAISED INTERSECTION

FIGURE C-5



Source: MUTCD, 2000

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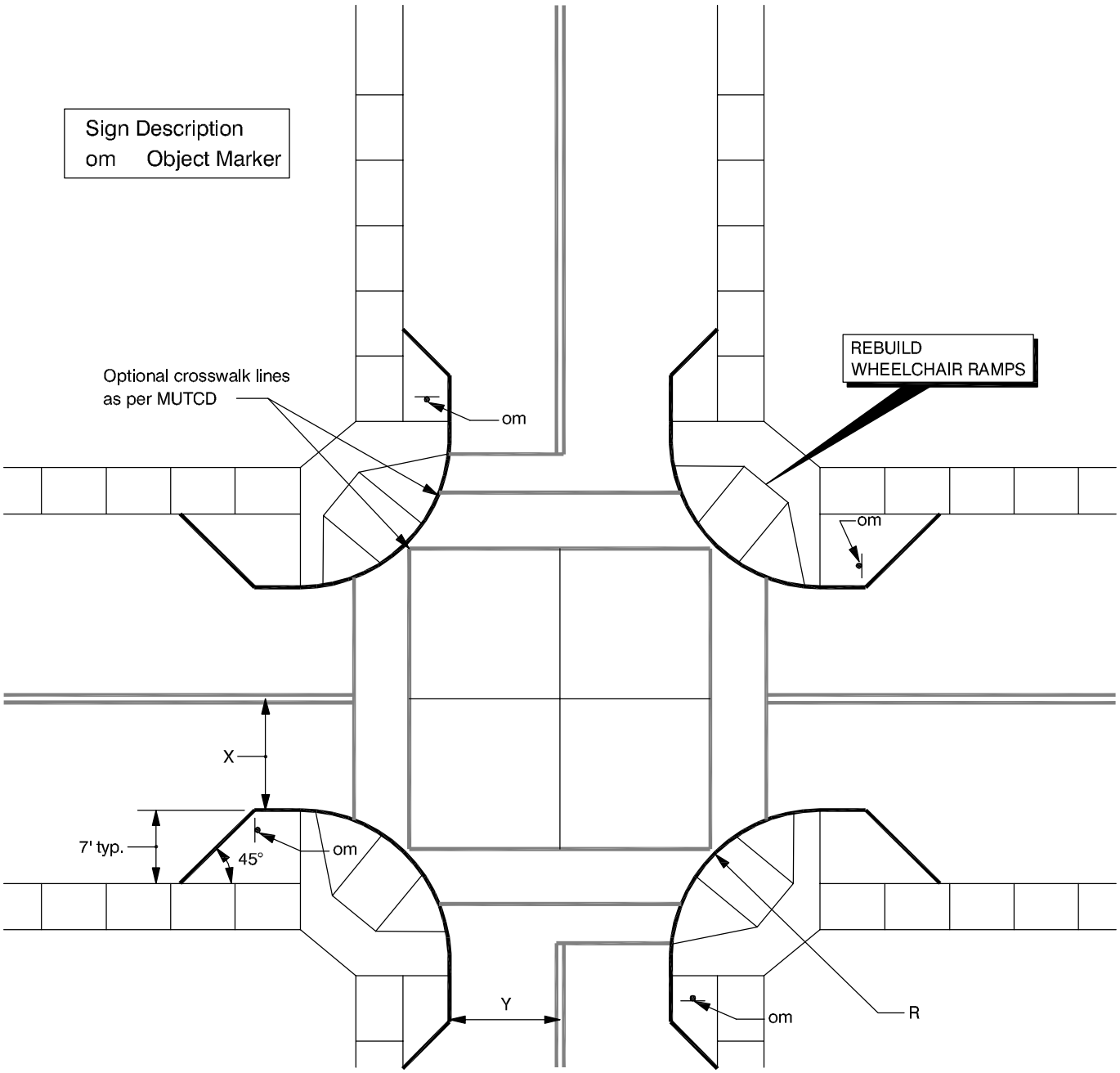
N:\Projects\RS05\2197_Placer_NTMP\Graphics\StandardDesigns\figC-6_advance_warning.dwg

VERTICAL DEVICE - ADVANCE WARNING MARKINGS

FIGURE C-6



For The Street Widths:		Use This Curb Radius:
X	Y	R
12'	12'	40'
12'	14'	32'
12'	16'	26'
14'	12'	37'
14'	14'	35'
14'	16'	24'

NOTES: 1. Distance X is referenced from the center of the roadway to the lip of gutter.

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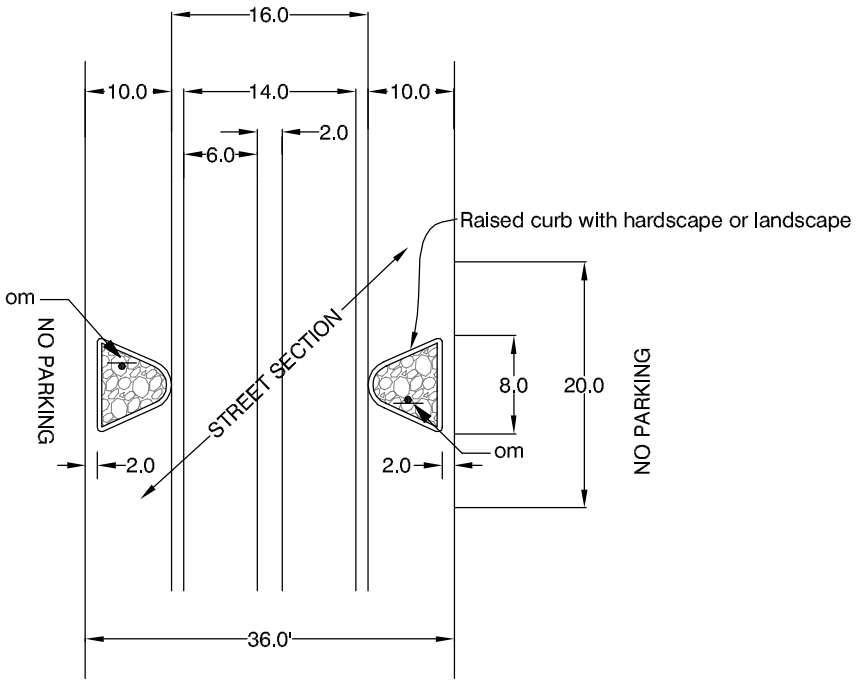
NECKDOWNS/BULBOUT (INTERSECTION)

FIGURE C-7

Sign Description	
om	Object Marker



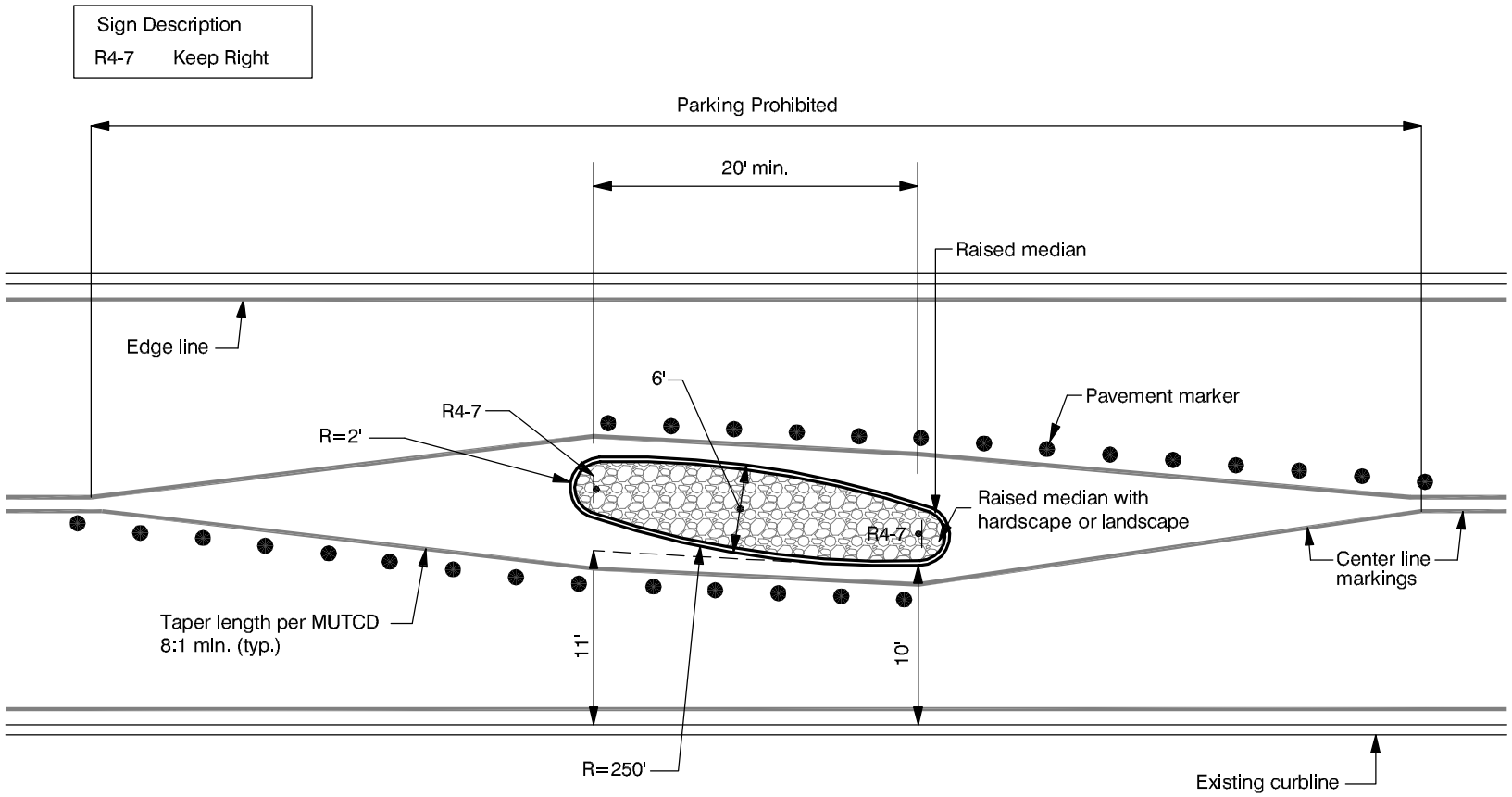
MIN. 36.0' WIDE STREET
FOR WIDER STREETS
MAKE BULB DEEPER

THE BULB-OUT DRAWING SHOWN IS FOR A 36 FOOT WIDE STREET. IF A STREET IS WIDER, THE BULB WOULD BE DEEPER; EACH BULB SHOWN IS EIGHT FEET DEEP SET TWO FEET OFF OF CURB. THE WIDTH BETWEEN BULBS SHOULD BE 16 FEET, WHICH ALLOWS FOR ONE FOOT BETWEEN BULB AND CAR, SIX FEET PER CAR AND TWO FEET BETWEEN CARS. THIS WOULD REQUIRE CARS TO SLOW DOWN SUBSTANTIALLY IN ORDER TO PASS. THE BULB WOULD RESTRICT PARKING FOR APPROXIMATELY 20 FEET (ONE CAR LENGTH FOR PARKING PURPOSES) IN ORDER FOR THE BULB TO BE VISIBLE, ALLOW WIDER VEHICLES TO PULL TO THE RIGHT AND ALLOW AN OPPOSING VEHICLE TO PASS.

NOTE: ON STREETS WITH EDGELINE STRIPING, TAPER EDGELINE PER MUTCD (8:1 MIN TYP.)

NECKDOWN/BULBOUT (MIDBLOCK)

FIGURE C-8



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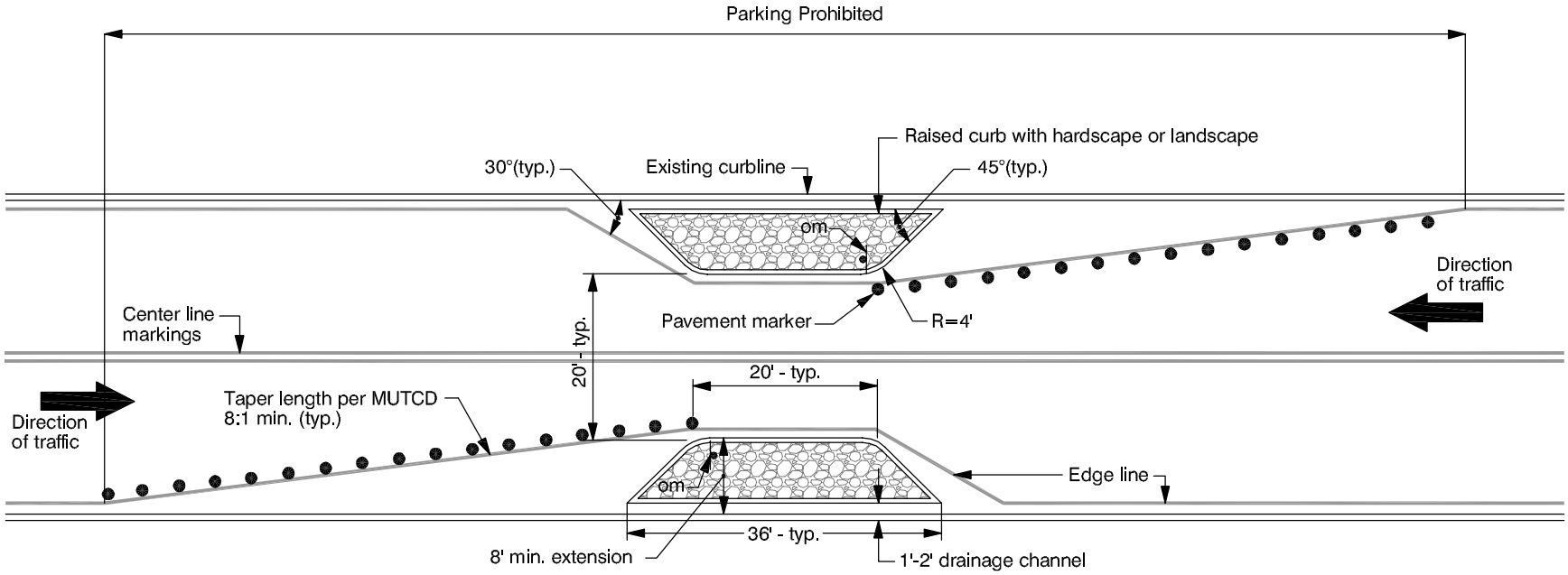
CENTER ISLAND NARROWING

FIGURE C-9



Sign Descriptions	
om	Object Marker

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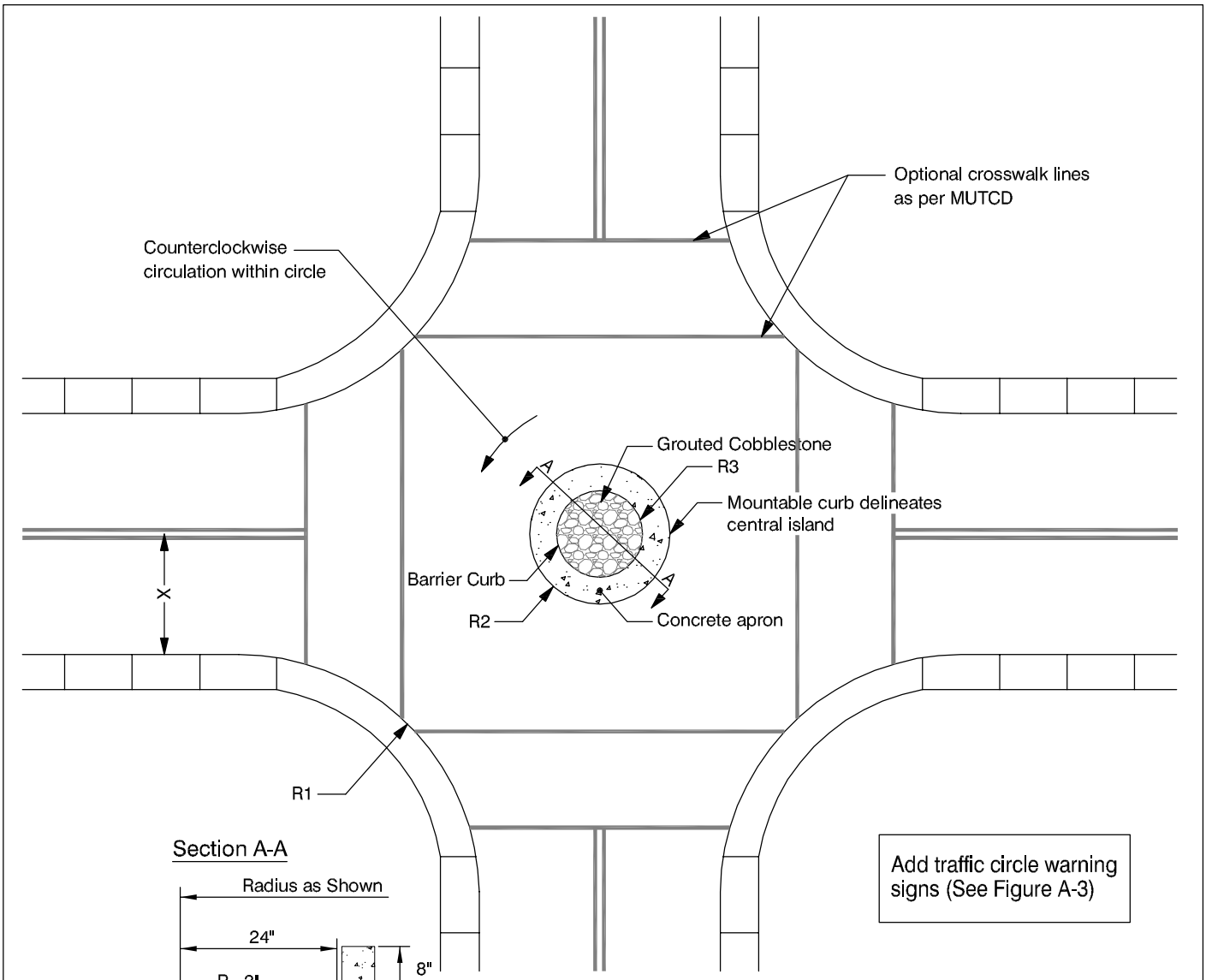
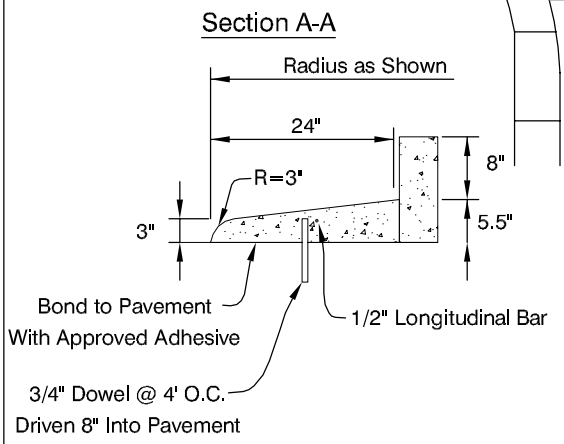
N:\Projects\RS05\2197_Placer_NTMP\Graphics\StandardDesigns\figC-10_choker.dwg

TWO-LANE CHOKER

FIGURE C-10



Add traffic circle warning signs (See Figure A-3)



For This Street Width[2]:	Use These Curb Radii:		
X	R1	R2	R3
16'	15'	12'	7'
	20'	18'	7'
	25'	20'	7'
14'	15'	10'	5'
	20'	11'	5'
	25'	12'	5'
12'	15'	6'	3'
	20'	8'	3'
	25'	9'	3'

NOTES:
1. Distance X is referenced from the center of the roadway to the lip of gutter.
2. Assumes equal street widths; For unequal street widths, use truck turning template (AASHTO or local truck dimensions) to ensure adequate turning radii for the desired design vehicle.

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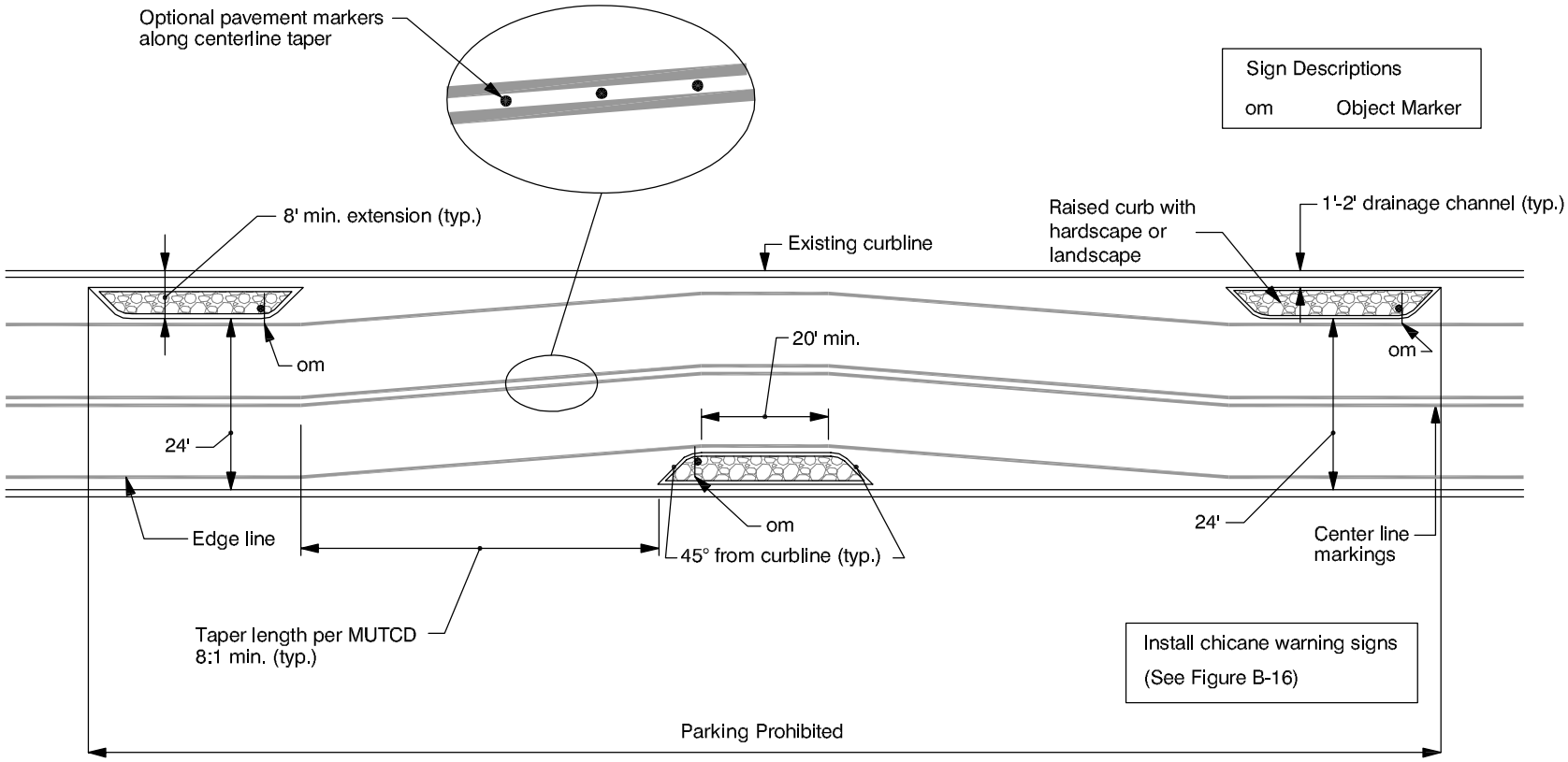
TRAFFIC CIRCLE

FIGURE C-11



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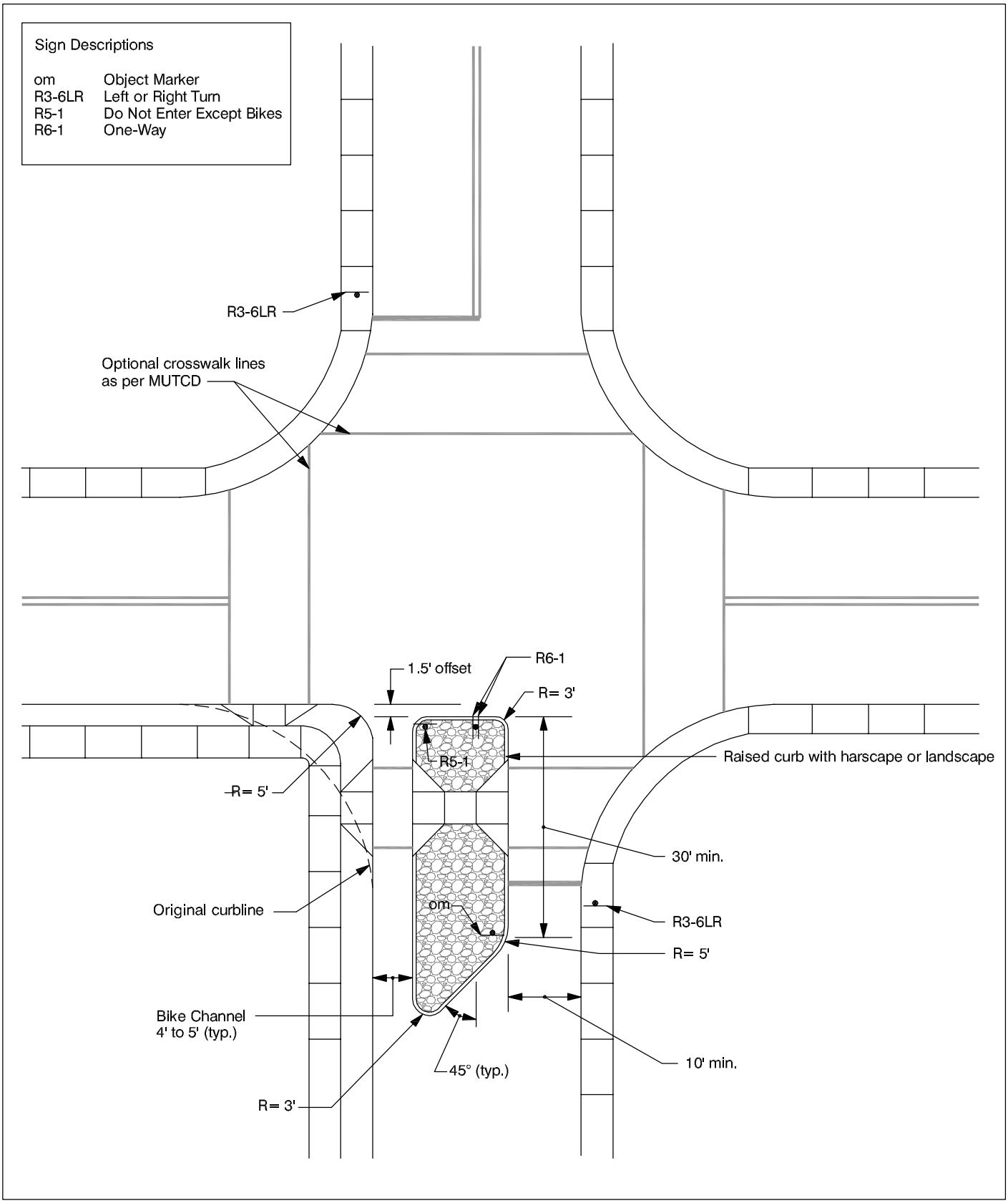
CHICANE

FIGURE C-12



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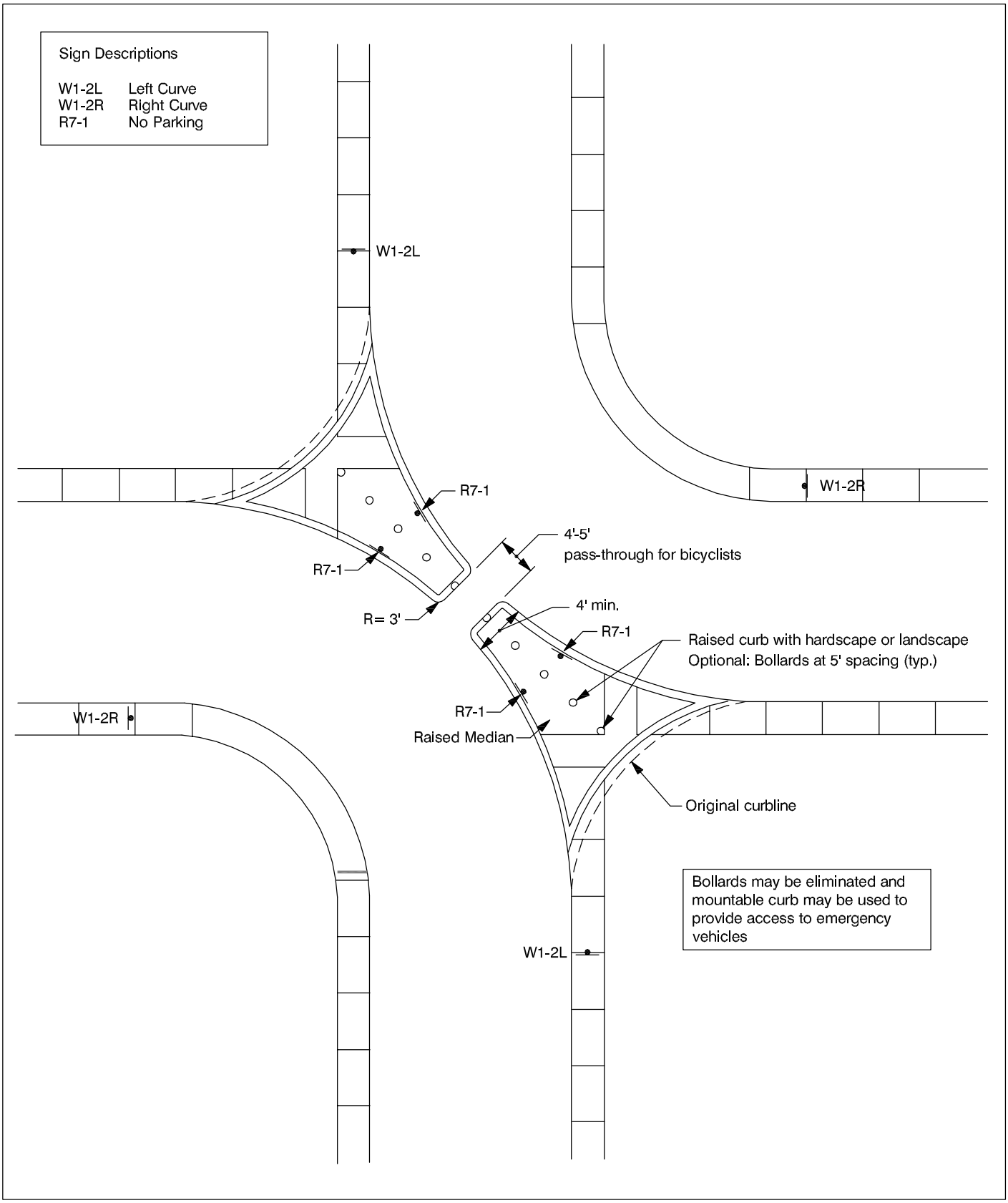
PARTIAL CLOSURE

FIGURE C-13



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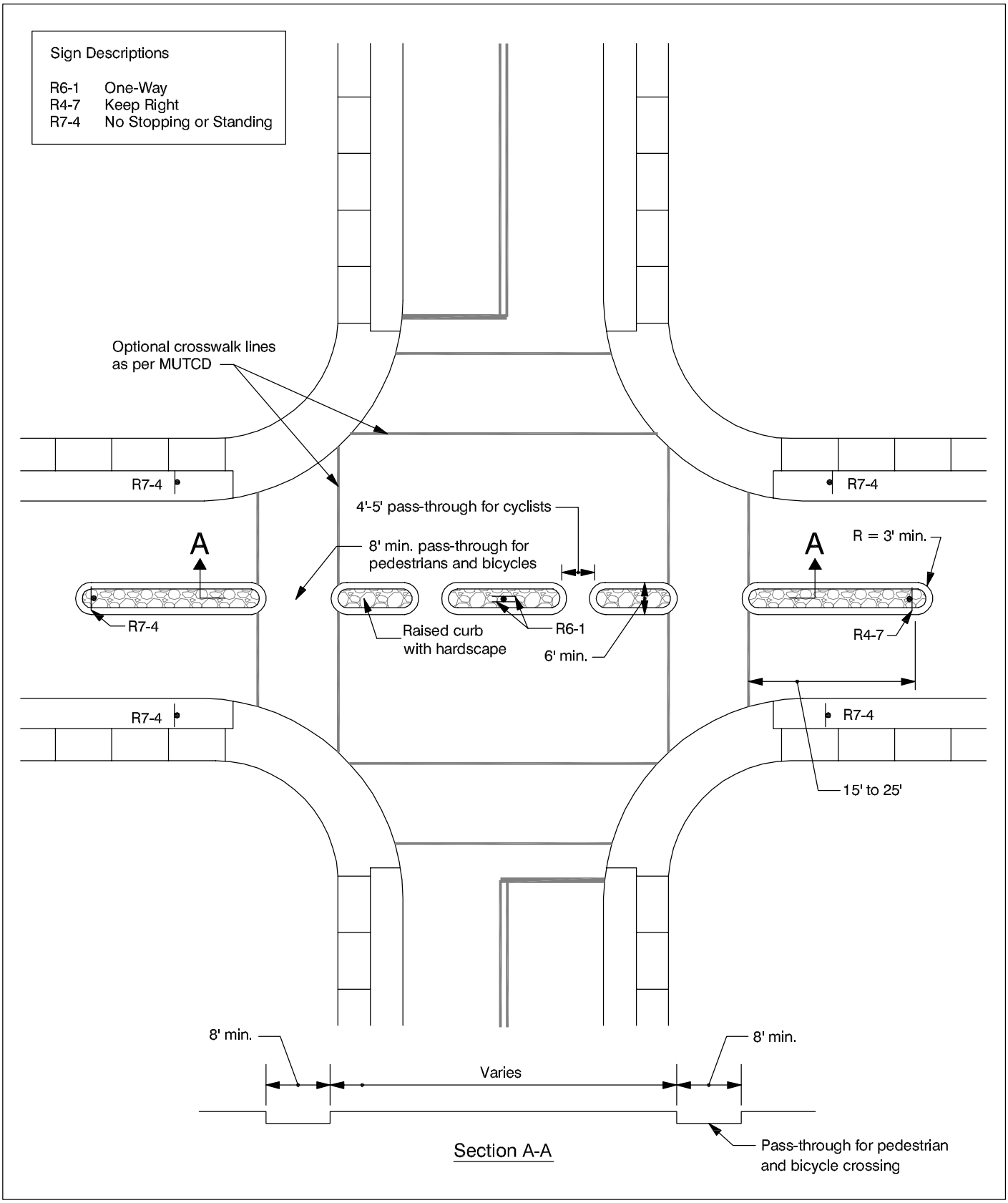
DIAGONAL DIVERTER

FIGURE C-14



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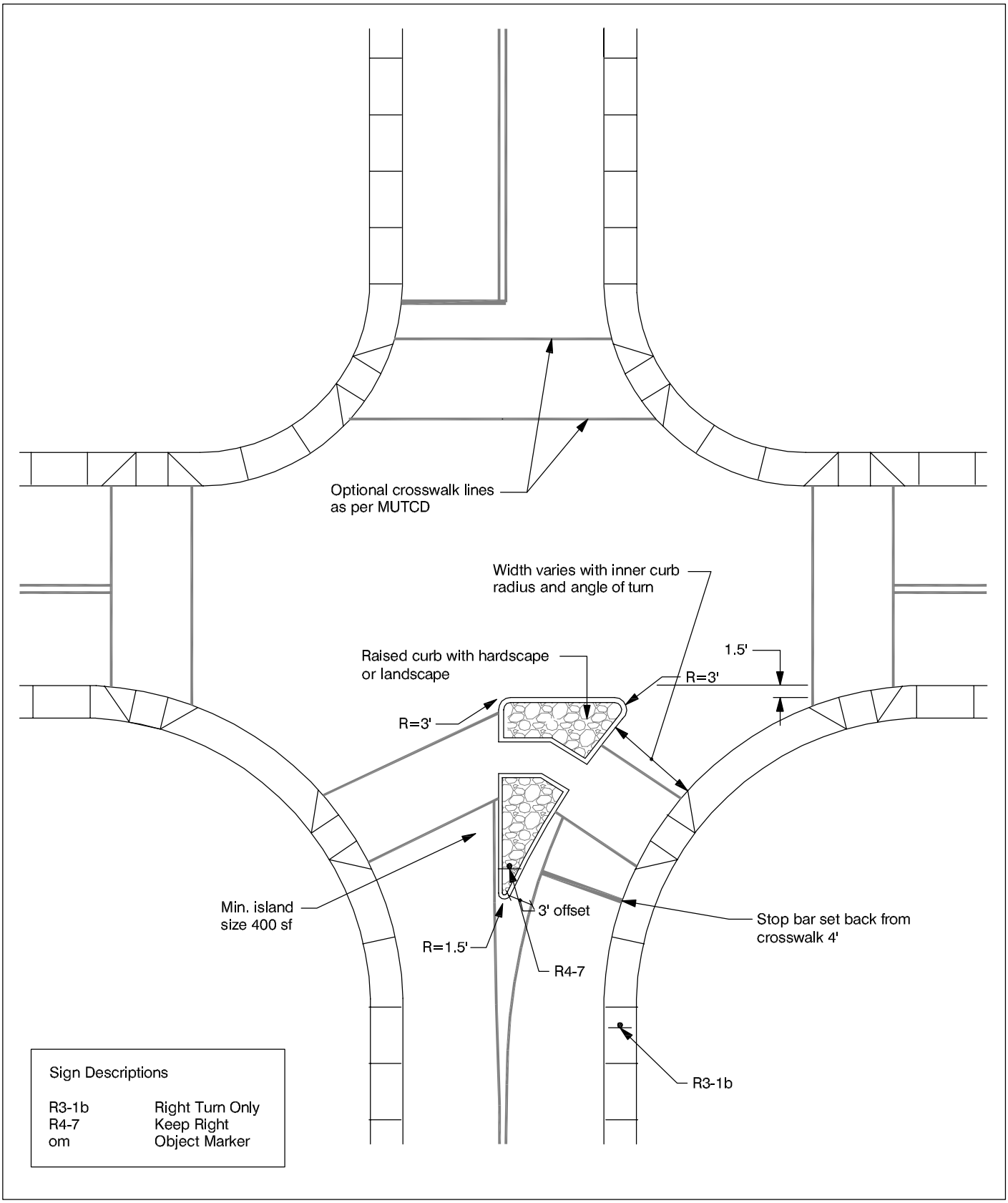
N:\Projects\RS05\2197_Placer_NTMP\Graphics\StandardDesigns\figC-15_median_barrier.dwg

MEDIAN BARRIER

FIGURE C-15



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FORCED TURN ISLAND

FIGURE C-16