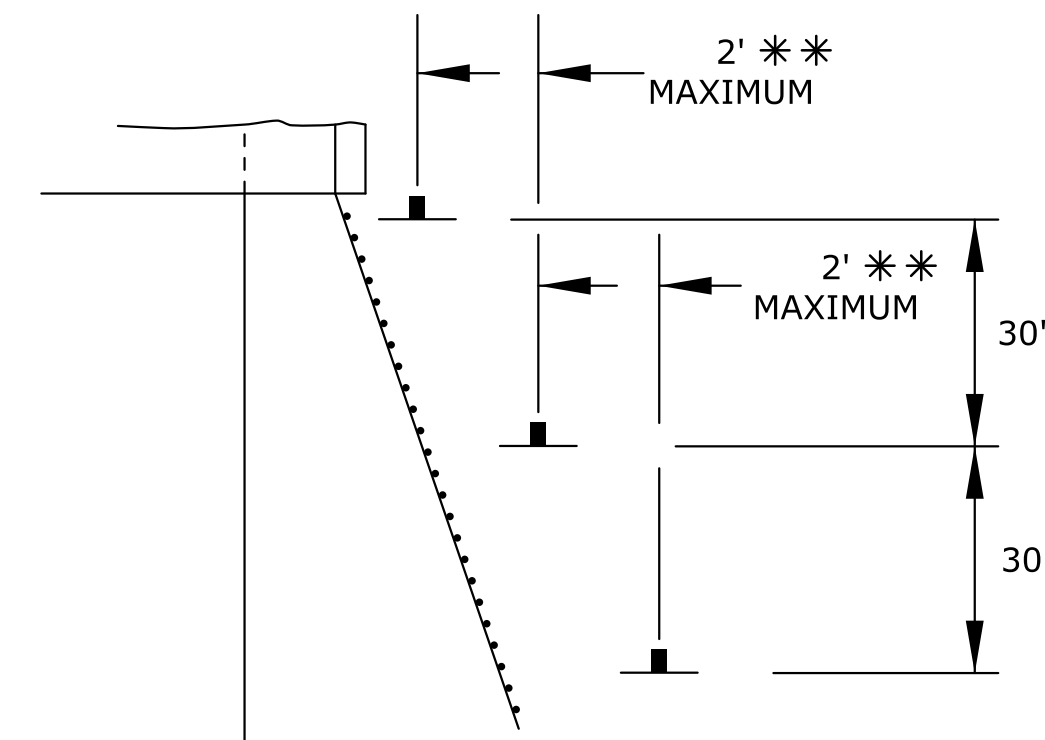
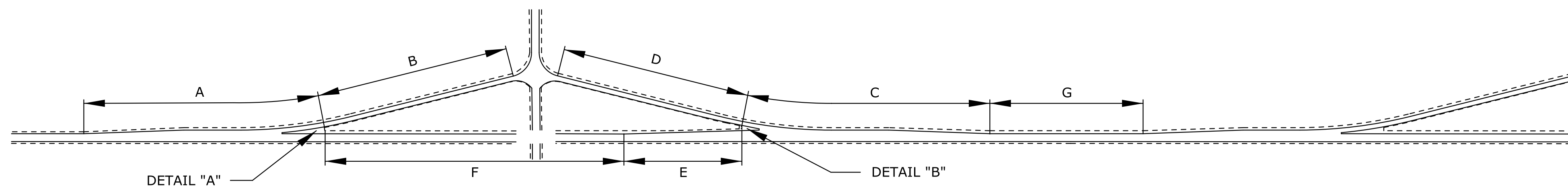


CURB SECTION
SHOULDER SECTION
GUARD FENCE SECTION
TYPICAL DELINEATOR LOCATION FOR ROADSIDE MOUNTING

TYPE 2 OBJECT MARKERS
SHOULDER WIDTH 6 FT OR GREATER
TYPE 3 OBJECT MARKERS
SHOULDER WIDTH LESS THAN 6 FT
TYPICAL OBJECT MARKER LOCATION FOR BRIDGE AND CULVERT STRUCTURES



TYPICAL PLACEMENT OF TYPE 3 OBJECT MARKERS

** - GUARD FENCE OR BARRIER

DELINEATION SPACING TABLE

	BEGINNING POINT	ENDING POINT	TYPICAL SPACINGS(1)	DELINEATOR TYPE AND COLOR	
				RIGHT EDGE	LEFT EDGE
A	END OF ACCELERATION LANE TAPER	PERPENDICULAR TO ENTRANCE RAMP GORE	100 FEET	"B" WHITE	"B" YELLOW
B	PERPENDICULAR TO ENTRANCE RAMP GORE	RAMP TERMINAL RADIUS	100 FEET	"A" WHITE	"A" YELLOW
C	END OF DECELERATION LANE TAPER	PERPENDICULAR TO EXIT RAMP GORE SIGN	100 FEET	"B" WHITE	"B" YELLOW
D	PERPENDICULAR TO EXIT RAMP GORE SIGN	RAMP TERMINAL RADIUS	100 FEET	"A" WHITE	"A" YELLOW
E	PERPENDICULAR TO EXIT RAMP GORE SIGN	END OF EXIT GORE TAPER	75-100 FT	"A" WHITE	"A" YELLOW
F	END OF EXIT GORE TAPER	ENTRANCE RAMP GORE	400-500 FT	"A" WHITE	"A" YELLOW
G	END OF ACCELERATION OR DECELERATION LANE TAPER	END OF ACCELERATION OR DECELERATION LANE TAPER	528 FT	"A" WHITE	"A" YELLOW
	BEGINNING OF CURVE FOR DIRECTION OF TRAVEL	END OF CURVE FOR DIRECTION OF TRAVEL	20-300 FT (2)	"A" WHITE	"A" YELLOW

(1) SPACINGS SHALL BE CONTINUOUS AND UNIFORM.

(2) SPACING IS ROUNDED TO NEAREST FOOT USING THE FORMULA:

$$SPACING = 3 \times \sqrt{(RADIUS - 50)}$$

NOTE:

SEE 'DELINEATION SPACING' AND 'PATTERN OF DELINEATION' TABLES AND/OR PLAN SHEET FOR TYPE, COLOR, AND SPACING OF DELINEATION. THE COLOR OF DELINEATION SHALL MATCH THE COLOR OF THE PAVEMENT MARKING EDGELINE.

DELINEATION SHALL BE LOCATED ON THE OUTSIDE EDGE OF MAINLINE, ACCELERATION LANES, DECELERATION LANES, RAMPS, AND CURVES. DELINEATION SHALL NOT BE USED ON CURVES OR LOOPS WHEN CHEVRONS (W1-8 SIGNS) ARE USED, EXCEPT AT THE ENTRANCE AND EXIT GORE AREAS. WHEN CHANGING FROM DELINEATING ONE EDGE OF THE ROADWAY TO THE OTHER EDGE, THE DELINEATION ON BOTH EDGES SHALL OVERLAP THE TYPICAL SPACING SHOWN IN THE DELINEATION SPACING TABLE.

WHEN DELINEATING A CURVE, THE FIRST DELINEATOR SHOULD BE LOCATED AT THE BEGINNING OF THE CURVE. THE SPACING ON THE CURVE SHALL NOT EXCEED THE TYPICAL SPACING FOR THE ROAD TYPE.

ALL DELINEATION USED WITHIN 100 FEET IN ADVANCE OF THE NOSE OF GUARD FENCE AND THROUGHOUT THE AREA WITH GUARD FENCE SHALL BE FLEXIBLE POST MOUNTED.

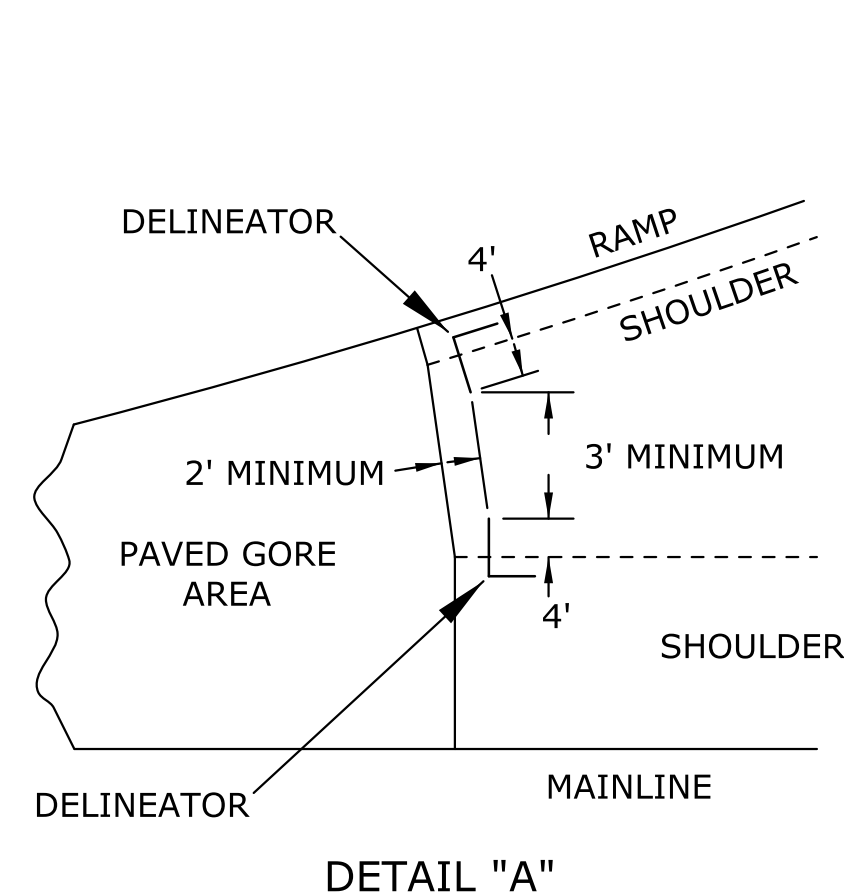
DELINEATION LOCATED ON A MEDIAN BETWEEN THE ENTRANCE AND EXIT RAMPS SHOULD BE INSTALLED ACCORDING TO MEDIAN WIDTH:

MEDIAN WIDTH LESS THAN 6 FT: DELINEATION INSTALLED BACK-TO-BACK ON A SINGLE POST ALONG THE MEDIAN CENTERLINE.

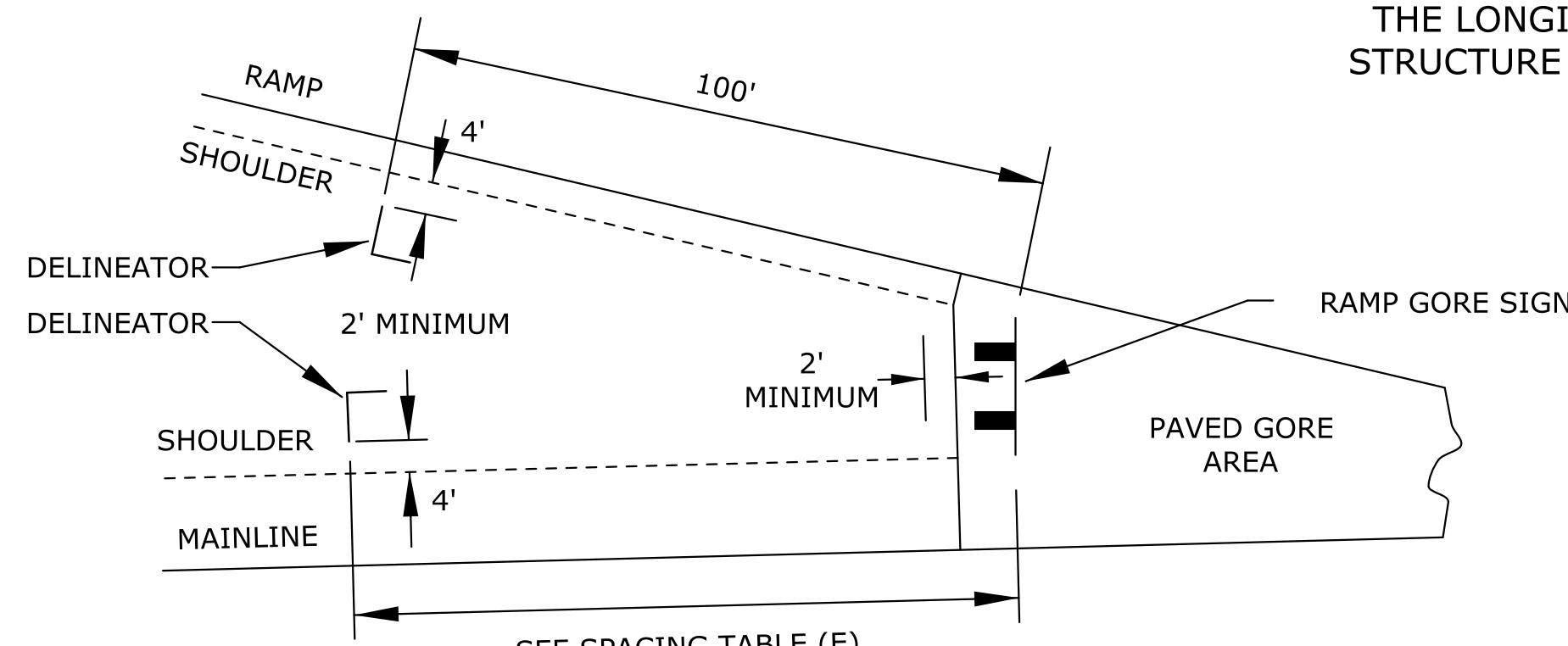
MEDIAN WIDTH GREATER THAN OR EQUAL TO 6 FT: DELINEATION INSTALLED AS SHOWN FOR THE TYPICAL DELINEATOR LOCATIONS.

THE SPACING SHALL BE AS SHOWN IN THE DELINEATION SPACING TABLE.

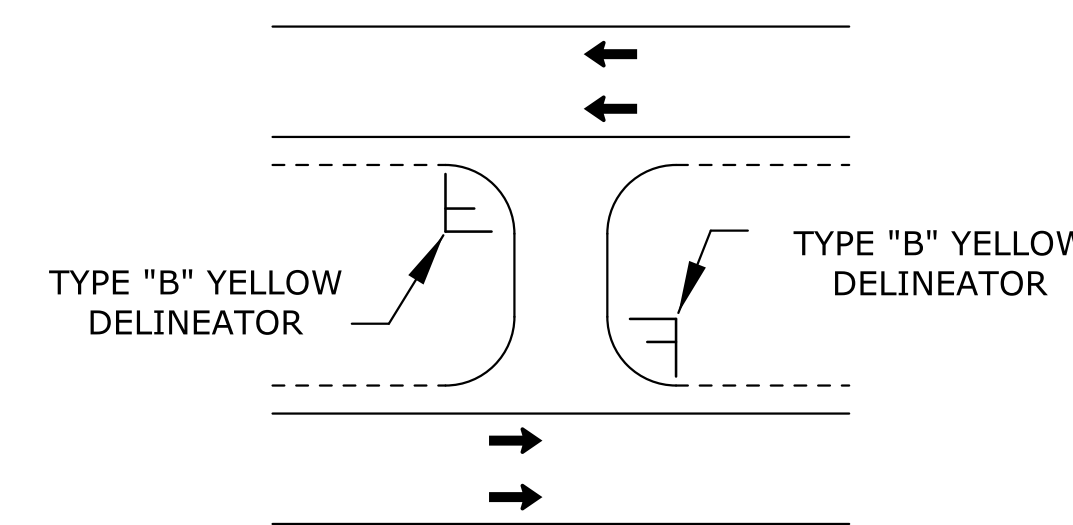
THE LONGITUDINAL LOCATION OF THE OBJECT MARKERS FROM THE STRUCTURE END SHALL BE A MAXIMUM SPACING OF 42"



DETAIL "A"



DETAIL "B"



TYPICAL DELINEATOR LOCATION FOR MEDIAN CROSS-OVER

TYPE 3 OBJECT MARKERS USAGE		
TWO-WAY ROADWAY (TWO LANES)		
WIDTH OF STRUCTURE	LEFT	RIGHT
LESS THAN 20 FT	3 (1)	3 (1)
20 FT TO LESS THAN 25 FT	1	3 (1)
25 FT TO LESS THAN 28 FT	1	3 (1)
28 FT TO LESS THAN 30 FT	1	3 (1)
30 FT TO LESS THAN 33 FT	1 (2)	1
ONE-WAY ROADWAY (ONE LANE)		
WIDTH OF STRUCTURE	LEFT	RIGHT
LESS THAN 25 FT	3 (1)	3 (1)
ONE-WAY ROADWAY (TWO LANES)		
WIDTH OF STRUCTURE	LEFT	RIGHT
LESS THAN 20 FT	-	-
20 FT TO LESS THAN 25 FT	3 (1)	3 (1)
25 FT TO LESS THAN 28 FT	3 (1)	3 (1)
28 FT TO LESS THAN 30 FT	3 (1)	3 (1)
30 FT TO LESS THAN 33 FT	1 (2)	1

NOTES:

THE TYPE 3 OBJECT MARKERS USAGE TABLE IS BASED ON BOTH SHOULDERS BEING EQUAL WIDTH. IF ONE SHOULDER WIDTH IS GREATER THAN OR EQUAL TO 6 FT, THEN INSTALL A TYPE 2 OBJECT MARKER ON THAT SIDE AND INSTALL A TYPE 3 OBJECT MARKER ON THE OTHER SIDE.

- (1) - THE FIRST TWO TYPE 3 OBJECT MARKERS NOT REQUIRED IF THE GUARD FENCE HAS DELINEATION.
- (2) - THE LEFT TYPE 3 OBJECT MARKER NOT REQUIRED IF STRUCTURE LESS THAN 10 FEET LONG.

3					
2					
1					
NO.	DATE	REVISIONS	BY	APP'D	
KANSAS DEPARTMENT OF TRANSPORTATION DESIGN DETAILS FOR POSITIONING OF DELINEATORS & OBJECT MARKERS (TYPES 2 & 3)					
TE409			7/1/03		
DESIGNED	D.D.G.	7/22/2003	APP'D	Steven A. Buckley	
DESIGN CK.	S.A.B.	DETAIL CK.	D.D.G.	QUAN. CK.	TRACED CK.