F.H.W.A. REGION NO.	STATE	PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
7	KANSAS		1978	86	143

PROJ. NO. (BC) 96-87 K-044-1(28) PTS. I & II

MINIMUM NUMBER OF FASTENERS REQUIRED PER LETTER OR DIGIT OF BUTTON SUPPORT FRAME

MODIFIED SERIES "E"

LETTER & NUMBER HEIGHT	METAL THICKNESS	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	0	1	2	3	4	5	6	7	8	9
24"	0.040	14	12	10	14	13	13	12	16	6	7	13	9	16	14	14	11	12	11	14	8	12	9	16	10	9	10	12	7	12	14	12	15	11	12	10	11
20"	0.040	8	9	6	7	9	7	8	9	4	5	8	6	12	10	8	7	8	9	7	6	8	7	12	9	6	8	8	4	8	7	7	8	7	6	9	7
18"	0.040	8	9	6	7	9	7	8	9	4	5	8	6	12	10	8	7	8	9	8	5	8	7	12	10	6	8	8	4	8	7	7	9	7	6	8	7
16"	0.040	8	9	6	9	9	7	7	9	4	5	9	5	12	10	8	7	8	9	8	5	7	7	13	8	6	8	8	3	9	8	8	9	8	6	8	8
15"	0.040	8	7	6	6	9	7	7	7	4	4	7	5	9	7	6	6	7	8	6	5	6	7	13	8	6	8	6	4	8	8	7	7	6	6	8	6
13.33"	0.040"	6	6	5	5	8	6	6	7	3	4	7	4	9	7	5	5	5	7	6	5	6	5	9	6	4	8	5	3	8	7	6	7	6	5	6	6
12"	0.040"	6	6	5	5	6	5	6	7	3	4	6	4	8	7	4	5	5	6	6	4	5	5	8	6	4	6	4	3	7	6	5	7	5	5	6	5
10.67"	0.040"	6	5	5	5	6	5	5	7	3	3	5	4	8	7	4	5	4	5	5	4	5	5	8	5	4	5	4	3	5	5	5	5	4	5	5	4
10"	0.040"	5	6	5	5	6	5	5	7	3	4	6	4	8	6	4	5	5	6	6	4	5	5	8	5	4	5	4	3	5	5	5	6	6	4	6	6
8"	0.040"	4	4	3	3	5	4	3	5	2	3	4	3	5	5	4	4	4	4	4	4	4	3	5	5	4	4	4	2	4	4	3	4	4	3	4	4
6"	0.040"	3	4	3	3	4	4	4	4	2	3	4	3	4	4	4	3	4	4	4	3	3	3	5	4	3	4	4	2	3	4	3	4	3	3	4	3

MODIFIED SERIES "E"

LETTER HEIGHT	METAL THICKNESS	a	b	c	d	e	f	g	h	i	j	k	l	m	n	o	p	q	r	s	t	u	v	w	x	y	z
18"	0.040"	7	9	7	9	7	6	10	8	4	5	8	4	10	7	8	9	8	5	8	6	7	7	13	6	7	8
15"	0.040"	7	7	7	7	7	7	9	8	4	5	8	4	9	7	8	7	7	5	8	6	7	7	13	6	8	7
12"	0.040"	6	7	5	7	6	5	7	7	3	4	7	4	9	6	6	7	7	4	6	5	6	6	7	6	8	7
10"	0.040"	5	5	5	5	5	5	6	6	3	4	6	4	9	6	6	5	5	4	6	5	6	5	8	6	6	5
8"	0.040"	4	5	4	5	4	3	5	5	2	3	5	3	6	4	4	5	5	3	4	3	4	3	5	4	4	4
6"	0.040"	4	3	3	3	4	3	4	4	2	2	4	2	6	4	4	3	3	3	4	2	4	3	5	4	4	4
$4\frac{1}{2}$"	0.040"	3	3	3	3	4	3	3	4	2	2	4	2	5	4	4	3	3	3	3	2	4	3	5	4	3	4

NOTES:

Tables are provided to determine the number of fasteners (and drilled holes for fasteners) required for a single button support frame. Letters and numbers shall be sheet aluminum of the thickness shown in table. Sheet aluminum shall be ASTM B-209, Alloy 6061-T6 or 3003-H14. Fasteners shall be aluminum self-plugging front entry expanding rivet 1/8" diameter.

STANDARD SERIES

LETTER & NUMBER HEIGHT	METAL THICKNESS	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	0	1	2	3	4	5	6	7	8	9
SERIES 'C' - 10"	0.040"													7						8	4	5															
SERIES 'C' - 8"	0.040"	4				6		4	5	3			4		5				6		4	5															
SERIES 'D' - 8"	0.040"												4		5	4										4											

NO	DATE	REVISIONS	BY	APP'D
3				
2				
1				

KANSAS DEPARTMENT OF TRANSPORTATION

FASTENERS FOR REMOVABLE CUTOUT LEGEND BUTTON SUPPORT FRAMES

SHEET NO 86 OF 143	SCALE	APP'D	
DESIGNED	DETAILED	QUANTITIES	TRACED
DESIGN CK	DETAIL CK.	QUAN. CK	TRACE CK