

Traffic Engineering Signing Manual

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serving you with pride

By Roger Dean Schroeder MDT 2020

English Version
STANDARD Sign Program

D-3's
GROUND MOUTED & OVERHEAD

6" Letter Height	
Min. 2" +	I Max. + 4"
8" Letter Height	
Min. 3" +	I Max. + 5"

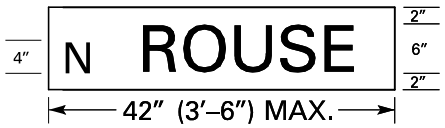
Revised 2/10

ALL SERIES "B" LEGEND.
CAN REDUCE SPACING UP TO 30%

0% 4"	0% 6"	0% 8"
10% 3.6"	10% 5.4"	10% 7.2"
20% 3.2"	20% 4.8"	20% 6.4"
30% 2.8"	30% 5.6"	30% 5.6"

24"x18" Dble. Line
Used Only w/3" + Lt/Rt Edge

GROUND MOUNTED



"B"
1/2" Border
1–1/2" Corner Radius

GROUND
White IV
Green IV

OVERHEAD
White IX
Green IV
Preferred Width 60" <

OVERHEAD



GROUND MOUNTED



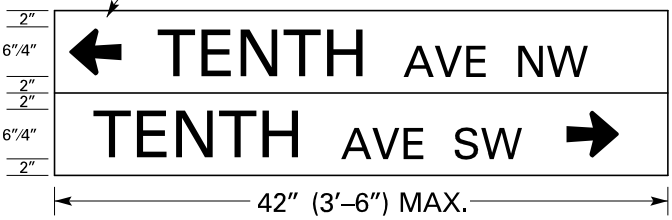


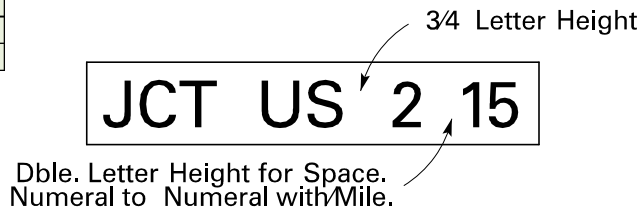
OVERHEAD



	0%	10%	20%	30%
3"	3.00	2.70	2.40	2.10
4"	4.00	3.60	3.20	2.80
6"	6.00	5.40	4.80	4.20
8"	8.00	7.20	6.40	5.60
10"	10.00	9.00	8.00	7.00
12"	12.00	10.80	9.60	8.40
18"	18.00	16.20	14.40	12.60

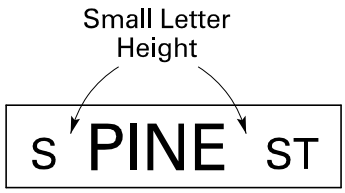
GROUND MOUNTED

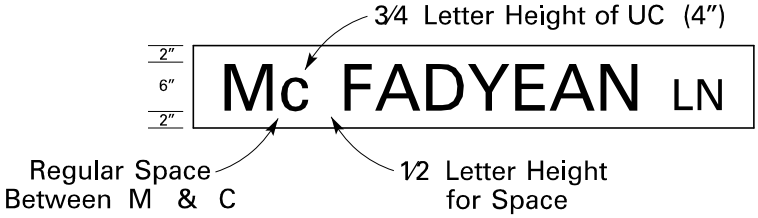


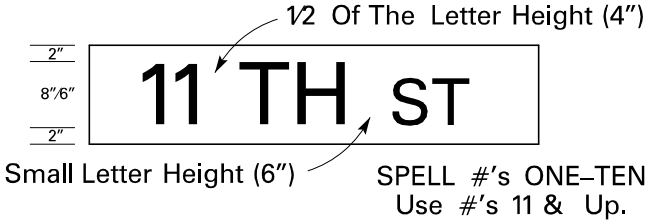


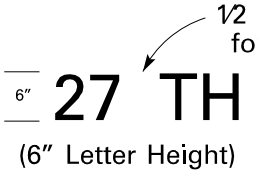
OH MOUNTED













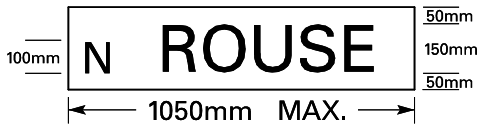
Metric Version
STANDARD Sign Program

D-3's
GROUND MOUTED & OVERHEAD

Revised 2/10

ALL SERIES "B" LEGEND.
CAN REDUCE SPACING UP TO 30%

GROUND MOUNTED



OVERHEAD



GROUND MOUNTED



GROUND
White IV
Green IV

OVERHEAD
White IX
Green IV

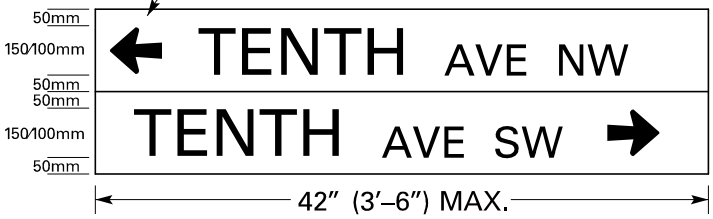
"B"
13mm Border
38mm Corner Radius

OVERHEAD



GROUND MOUNTED

150mm x 100mm



3/4 Letter Height



Dble. Letter Height for Space.
Numeral to Numeral with Mile.

OH MOUNTED

225mm x 150mm



Small Letter Height



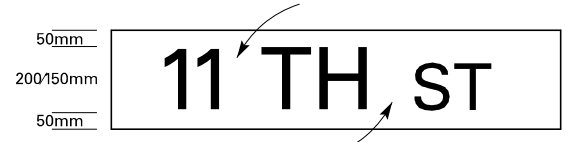
3/4 Letter Height of UC (100mm)



Regular Space Between M & C

1/2 Letter Height for Space

1/2 Of The Letter Height (100mm)



Small Letter Height (150mm)

SPELL #'s ONE–TEN
Use #'s 11 & Up.

1/2 Letter Height for Space (75mm)



(150mm Letter Height)



English Version

STANDARD Sign Program

D-3's
GROUND MOUTED & OVERHEAD ADVANCE STREET NAME PLAQUE

Revised 3/10

D3 Typical



SHT ALUM
BORDER 1/2"
CORNER R. 1–1/2"
LEGEND White (IV)
BACKGROUND Green (IV)
FONT "C" or "B"

OVERHEAD D3

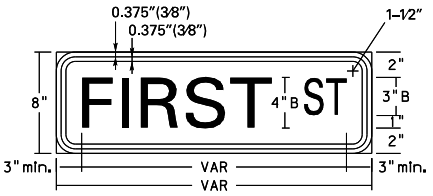


1st thru 10th spell out street name
(FIRST, SECOND, THIRD, etc.)

11th & up, use number
(11th, 12th, 13th, etc.)

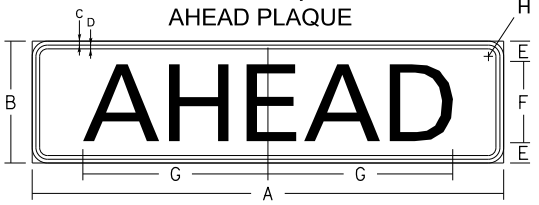
LEGEND White (IX)
BACKGROUND Green (IV)

W16-8
ADVANCE STREET NAME PLAQUE



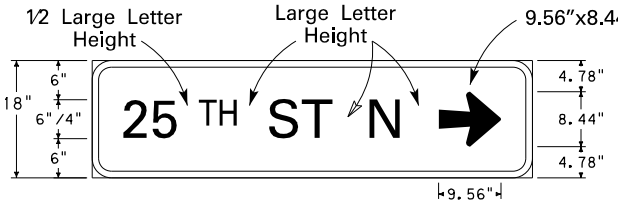
SHT ALUM
BORDER 3/8"
MARGIN 3/8"
CORNER R. 1–1/2"
LEGEND Black
BACKGROUND Yellow (IV)
FONT *Series 2000 Standard Alphabet

W16-9p
AHEAD PLAQUE



A	B	C	D	E	F	G	H
24	12	0.375	0.625	3.5	5"C"	8.714	1.5
30	18	12.5	0.75	5.5	7"C"	12.201	1.875
36	24	0.625	0.875	8	8"C"	13.944	2.25
48	36	18.75	1.25	13	10"C"	17.428	3

D3-2 Advance Guide Sign



White IV
Green IV
"D"
1" Border
3" Corner Radius

	0%	10%	20%	30%
3"	3.00	2.70	2.40	2.10
4"	4.00	3.60	3.20	2.80
6"	6.00	5.40	4.80	4.20
8"	8.00	7.20	6.40	5.60
10"	10.00	9.00	8.00	7.00
12"	12.00	10.80	9.60	8.40
18"	18.00	16.20	14.40	12.60

MUTCD pg. 2C-23,24

Metric Version

D3 Typical



SHT ALUM
BORDER 38mm
CORNER R. 38mm
LEGEND White (IV)
BACKGROUND Green (IV)
FONT "C" or "B"

OVERHEAD D3

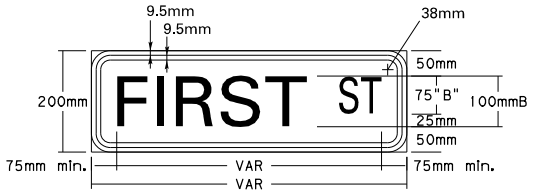


1st thru 10th spell out street name
(FIRST, SECOND, THIRD, etc.)

11th & up, use number
(11th, 12th, 13th, etc.)

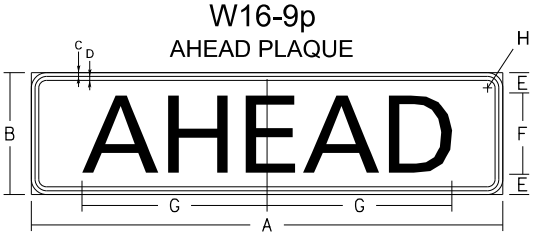
LEGEND White (IX)
BACKGROUND Green (IV)

W16-8
ADVANCE STREET NAME PLAQUE



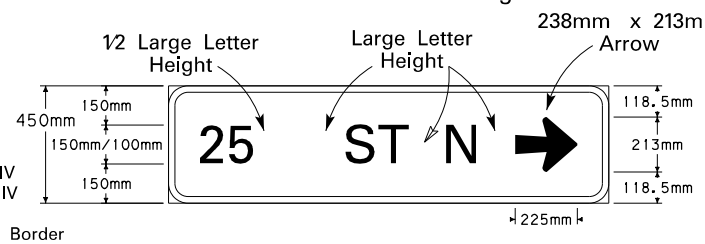
SHT ALUM
BORDER 3/8"
MARGIN 3/8"
CORNER R. 1–1/2"
LEGEND Black
BACKGROUND Yellow (IV)

W16-9p
AHEAD PLAQUE



A	B	C	D	E	F	G	H
600	300	9.525	15.875	87.5	125"C"	221.335	38
750	450	312.5	18.75	137.5	175"C"	309.905	47.625
900	600	15.875	22.225	200	200"C"	354.175	56.25
1200	900	0.75	31.25	325	250"C"	442.67	75

D3-2 Advance Guide Sign



White IV
Green IV
"D"
25mm Border
75mm Corner Radius

MUTCD pg. 2C-23,24

English Version
STANDARD Sign Program

PRIMARY & SECONDARY

Revised 1/10

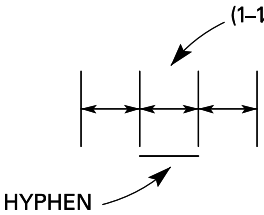
INTERSTATE – Upper/Lower Case
PRIMARY/SECONDARY – All Caps

N6-1



NON–INCORPERATED

White IV
Green IV
*E mod
1" Border
3" Corner Radius



RR Normal Space

N6-1



INCORPERATED (UNDER 6000)

1/2 Letter Height

8 A M

Normal Space

	0%	10%	20%	30%
3"	3.00	2.70	2.40	2.10
4"	4.00	3.60	3.20	2.80
6"	6.00	5.40	4.80	4.20
8"	8.00	7.20	6.40	5.60
10"	10.00	9.00	8.00	7.00
12"	12.00	10.80	9.60	8.40
18"	18.00	16.20	14.40	12.60

1/2 Letter Height for Space

27 TH

N6-1

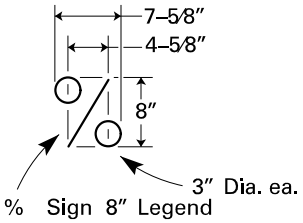


INCORPERATED (OVER 6000)

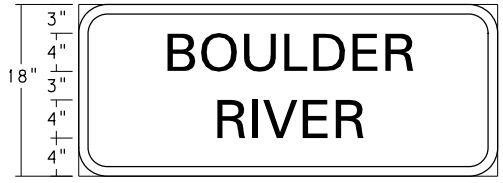
Use 1–1/2 Times Normal Space

U S A F

N6 M.H. & C.
5' Mountiing Height
Clearance: 10' standard
Clearance: 2' behind Guardrail



N6-2



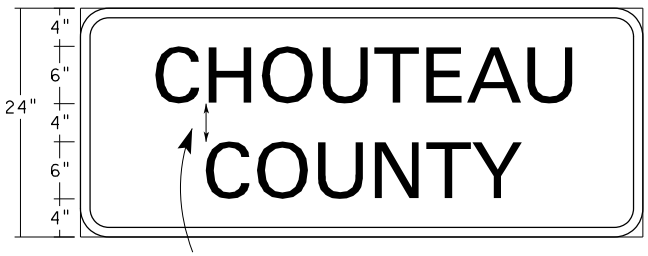
See STD. DWG. 88–11

CREEK & RIVER Signing
USE "D" or "C" FONT
TO =< 4'–0" Width
& 1 POST ONLY!

White IX
Green IV
E mod
2" Border
6" Corner Radius

COUNTY (N6–3) & Scenic Route/Loop Signing (G Series)

N6-3 USE "D" or "C" FONT



3/4 Letter Height Min. (TYP)

OVERHEAD



ARROW: 17.25" x 14.25"

English Version
STANDARD Sign Program

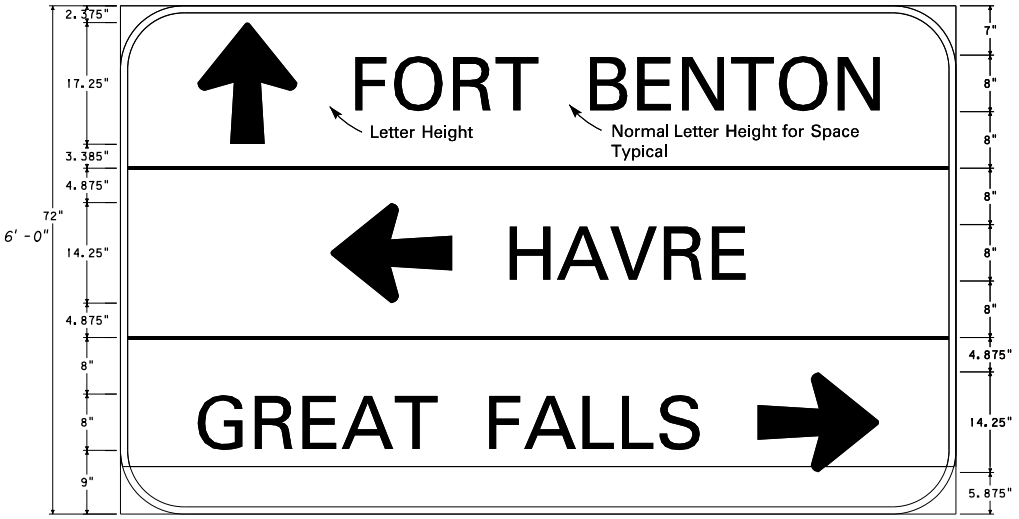
INTERSTATE

Revised 1/10

G9 Series

White IV
Green IV
E mod
1"–2" Border 1–1/2" Preferred
9" Corner Radius

CENTER Shorter Legend Over Longer Legend



ARROW: 17.25" x 14.25"

INTERSTATE – Upper/Lower Case

Legend Order

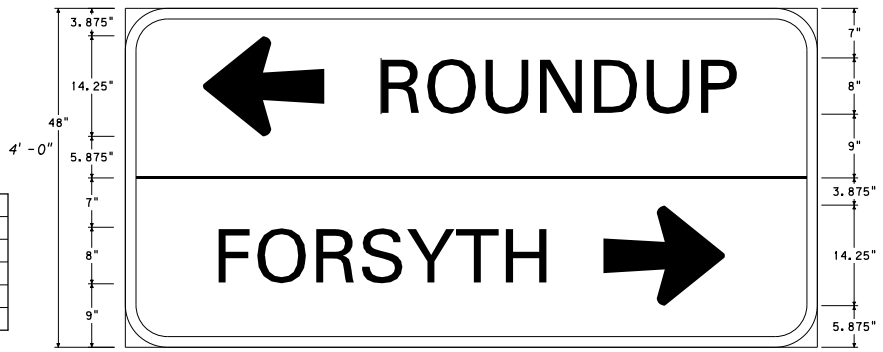
1st Line: Up Arrow Legend
2nd Line: Left Arrow Legend
3rd Line: Right Arrow Legend
4th Line: Down Arrow Legend

ANGLE IRON:
2.5"x2.5"x3/8"
2"x2"x1/4"
2"x4"x1/4"

ARROW SIZE	Letter Height	# Lines if Applicable	Angle/Arrow
12" x 11–1/4"	8" LH	2 Line	
17–1/4" x 14–1/4"	8" LH	4 Line w/milage	
17–1/4" x 14–1/4"	8" /6" LH	3 &4 Line	
17–1/4" x 14–1/4"	10.67" /8" LH	2 Line	
25" x 21–7/8"	16" /12" LH	2 Line–Arrow 3rd Line	45° angle

White IV
Green IV
E mod
1"–2" Border 1–1/2" Preferred
6" Corner Radius

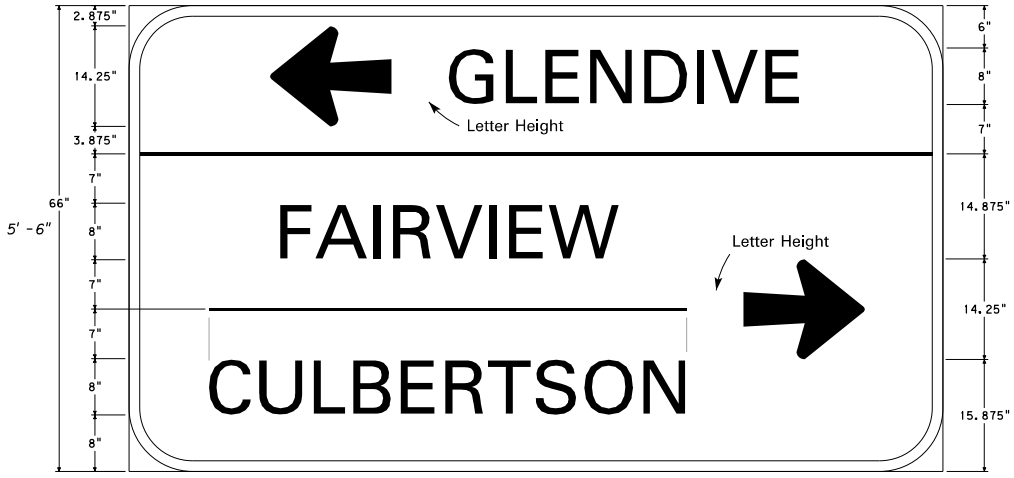
CENTER Shorter Legend Over Longer Legend



ARROW: 17.25" x 14.25"

White IV
Green IV
E mod
1"–2" Border 1–1/2" Preferred
9" Corner Radius

CENTER Shorter Legend Over Longer Legend



Corner Radius:	
1'–6" to 2'–6"	3"
3'–0" to 4'–6"	6"
5'–0" to 6'–6"	9"
7'–0" & Greater	12"

Sign Border:	
6" to 8" L.H.	1"
8" w/Arrow	1–1/2"
8" & Greater L.H.	2"

6'–6" or >Smallest Sign Dimension.

	0%	10%	20%	30%
3"	3.00	2.70	2.40	2.10
4"	4.00	3.60	3.20	2.80
6"	6.00	5.40	4.80	4.20
8"	8.00	7.20	6.40	5.60
10"	10.00	9.00	8.00	7.00
12"	12.00	10.80	9.60	8.40
18"	18.00	16.20	14.40	12.60

ARROW: 17.25" x 14.25"

Metric Version
STANDARD Sign Program

PRIMARY & SECONDARY

Revised 1/10

INTERSTATE – Upper/Lower Case
PRIMARY/SECONDARY – All Caps

N6-1



NON–INCORPERATED

White IV
Green IV
E mod
25mm Border
75mm Corner Radius

RR Normal Space

½ Letter Height for Space

27 TH

N6-1



INCORPERATED (UNDER 6000)

(1–½ x Letter Height) /3 for Space

HYPHEN

½ Letter Height

8 AM

Normal Space

N6-1

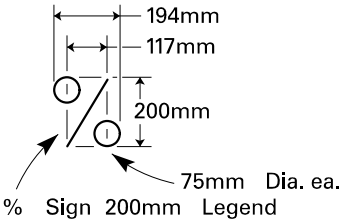


INCORPERATED (OVER 6000)

Use 1–½ Times Normal Space

U S A F

N6 M.H. & C.
1.5m Mountiing Height
Clearance: 3.1m standard
Clearance: 0.6m behind Guardrail



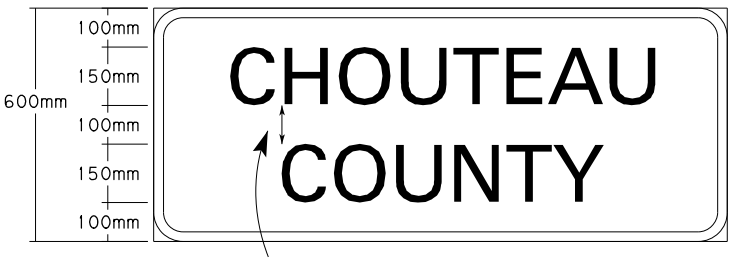
N6-2



See STD. DWG. 88–11

CREEK and River Signing
USE "D" or "C" FONT
TO =< 4'–0" Width
& 1 POST ONLY!

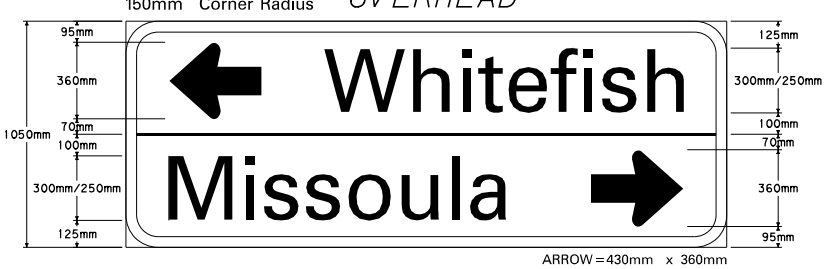
N6-3



¾ Letter Height Min. (TYP)

White IV
Green IV
E mod
50mm Border
150mm Corner Radius

OVERHEAD



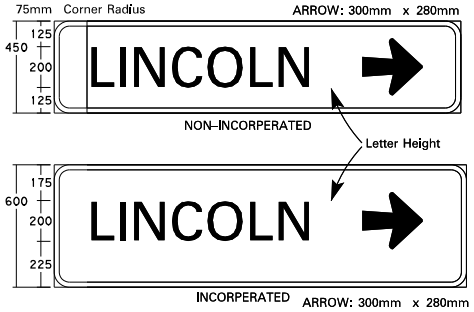
ARROW = 430mm x 360mm

Metric Version
STANDARD Sign Program

PRIMARY & SECONDARY

Revised 1/10

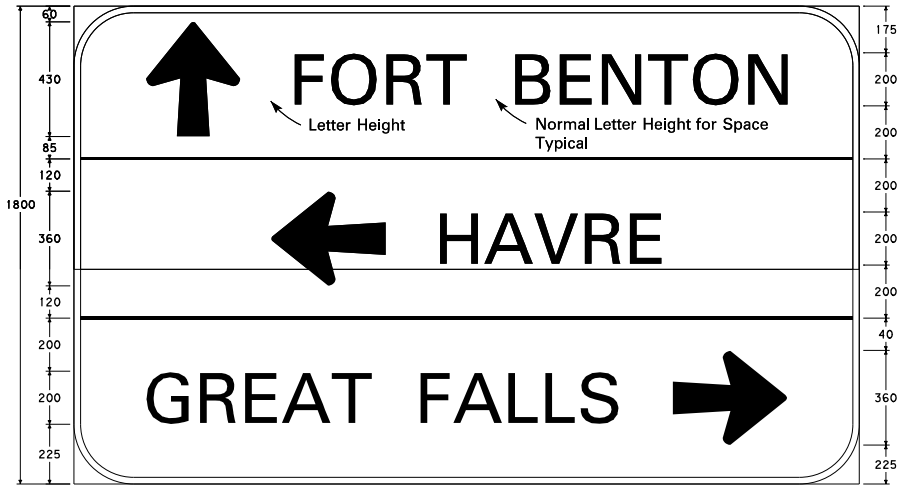
White IV
Green IV
E mod
25mm Border
75mm Corner Radius



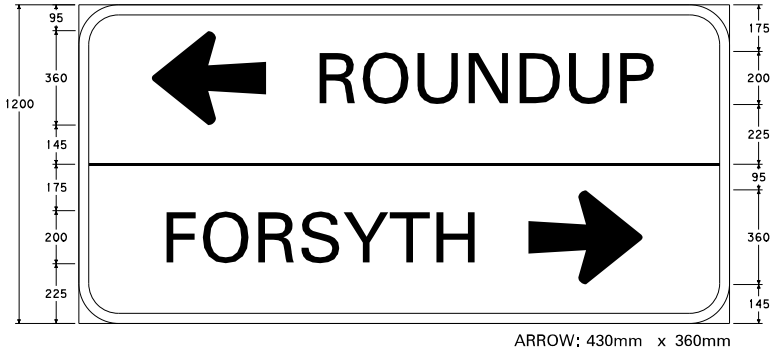
ARROW SIZE	Letter Height	# Lines if Applicable	Angle/Arrow
210mm x 240mm	150mm LH	2 Line	
220mm x 250mm	150mm LH	2 Line–Arrow 3rd Line	UP arrow
280mm x 300mm	200mm LH	1,2&3 Line	
430mm x 360mm	200mm LH	2 Line	

ANGLE IRON:
64mmx64mmx9.5mm
51mmx51mmx6.4mm
50mmx50mmx100mm

White IV
Green IV
E mod
25mm–50mm Border 38mm Preferred
225mm Corner Radius



White IV
Green IV
E mod
25mm–50mm Border 38mm Preferred
150mm Corner Radius



INTERSTATE – Upper/Lower Case
PRIMARY/SECONDARY – All Caps

CENTER Shorter Legend Over Longer Legend

Legend Order

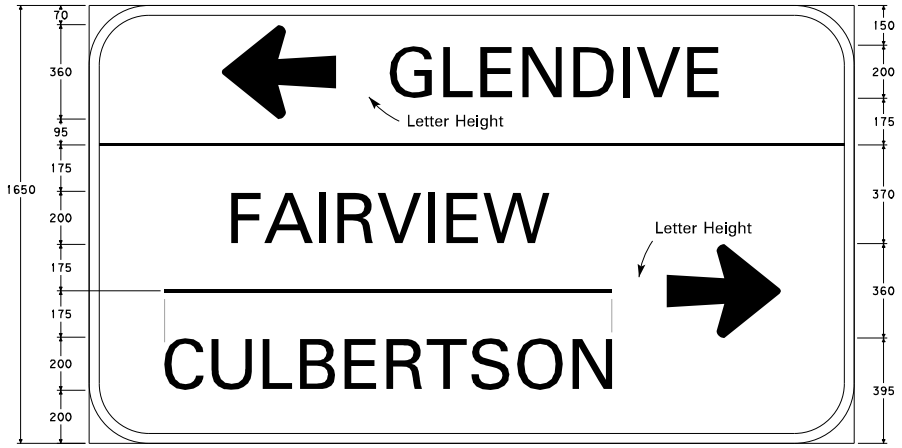
1st Line: Up Arrow Legend
2nd Line: Left Arrow Legend
3rd Line: Right Arrow Legend
4th Line: Down Arrow Legend

Corner Radius:	
0mm to 900mm	75mm
1050mm to 1350mm	150mm
1500mm to 1950mm	225mm
2100mm & Greater	300mm

Sign Border:		
150mm to 200mm	25mm	
200mm w/Arrow	38mm	
200mm & Greater	50mm	1.95m or >Smallest Sign Dimension.

White IV
Green IV
E mod
25mm–50mm Border 38mm Preferred
225mm Corner Radius

CENTER Shorter Legend Over Longer Legend



English/Metric Version

STANDARD Sign Program

PRIMARY/SECONDARY/INTERSTATE

INTERSTATE – Upper/Lower Case
PRIMARY/SECONDARY – All Caps

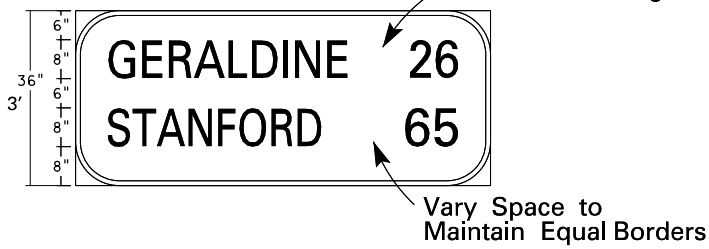
Revised 3/10

G11 Series

English Version

PRIMARY/SECONDARY

White IV
Green IV
E mod
1" Border
6" Corner Radius

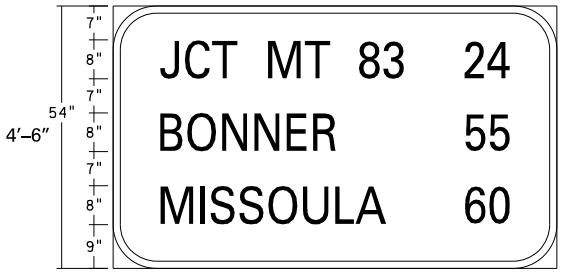


INTERSTATE

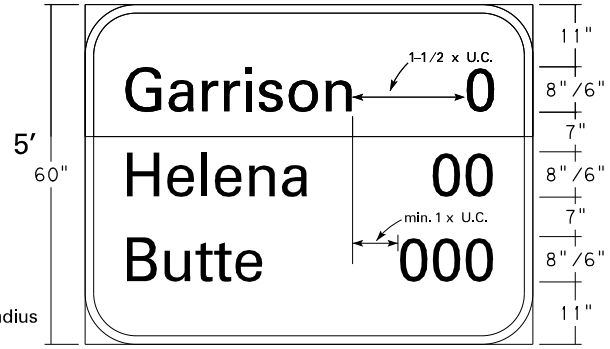
White IV
Green IV
Emod
1–1/2" Border
6" Corner Radius



White IV
Green IV
E mod
1–1/2" Border
6" Corner Radius



White IV
Green IV
Emod
1–1/2" Border
9" Corner Radius



	0%	10%	20%	30%
3"	3.00	2.70	2.40	2.10
4"	4.00	3.60	3.20	2.80
6"	6.00	5.40	4.80	4.20
8"	8.00	7.20	6.40	5.60
10"	10.00	9.00	8.00	7.00
12"	12.00	10.80	9.60	8.40
18"	18.00	16.20	14.40	12.60

INTERSTATE

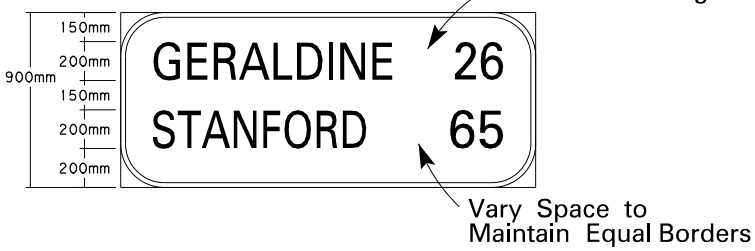
Metric Version

White IV
Green IV
Emod
38mm Border
150mm Corner Radius

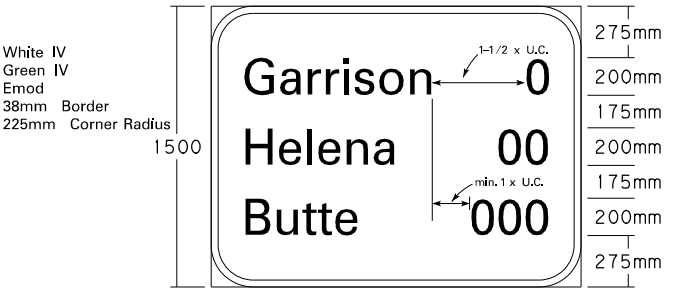


PRIMARY/SECONDARY

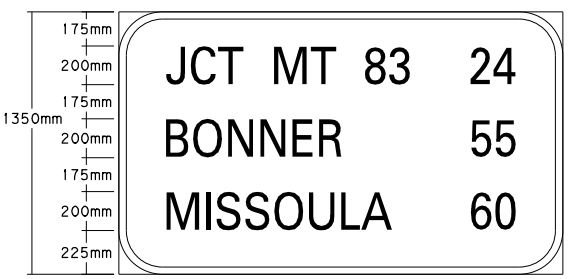
White IV
Green IV
E mod
25mm Border
150mm Corner Radius



White IV
Green IV
Emod
38mm Border
225mm Corner Radius

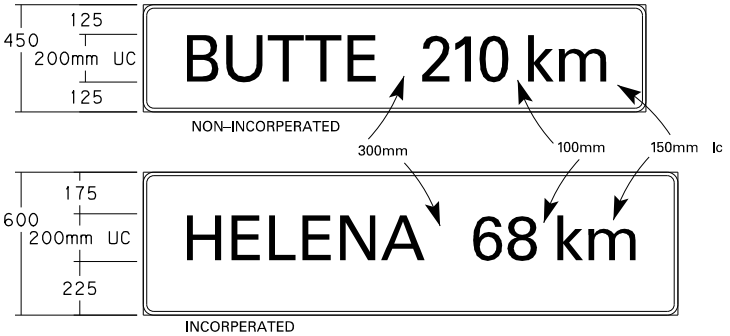


White IV
Green IV
E mod
38mm Border
150mm Corner Radius



White IV
Green IV
E mod
25mm Border
75mm Corner Radius

*METRIC: 1/2 the Number for space between Milage and KM



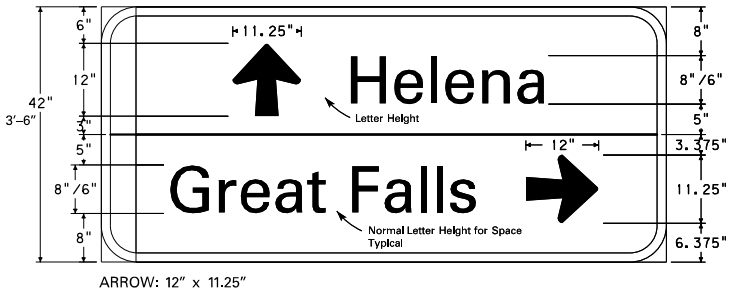
PRIMARY / INTERSTATE

INTERSTATE – Upper/Lower Case
PRIMARY/SECONDARY – All Caps

Revised 3/10

English/Metric Version
Primary/Secondary–STANDARD Sign Program
INTERSTATE–OREGON Sign Program

G-11 Series

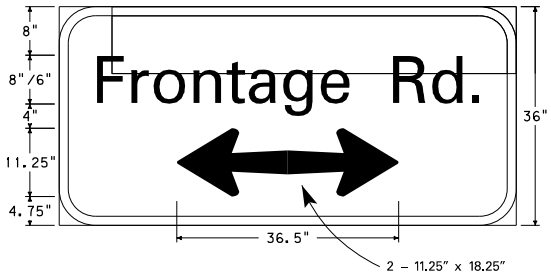


ARROW: 12" x 11.25"

White IV
Green IV
E mod
1–1/2" Border
6" Corner Radius

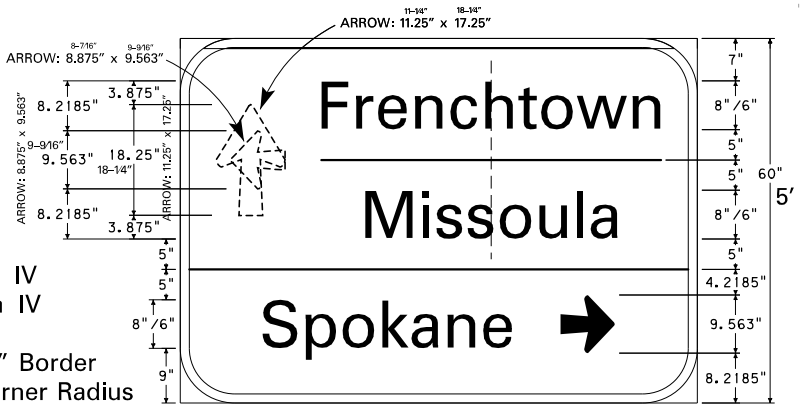
English Version

	0%	10%	20%	30%
3"	3.00	2.70	2.40	2.10
4"	4.00	3.60	3.20	2.80
6"	6.00	5.40	4.80	4.20
8"	8.00	7.20	6.40	5.60
10"	10.00	9.00	8.00	7.00
12"	12.00	10.80	9.60	8.40
18"	18.00	16.20	14.40	12.60



FRONTAGE ROAD

G13 Series



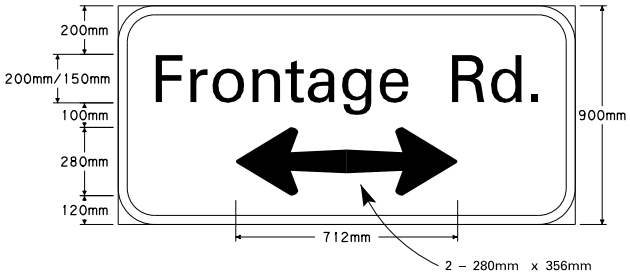
White IV
Green IV
Emod
1–1/2" Border
9" Corner Radius

Metric Version

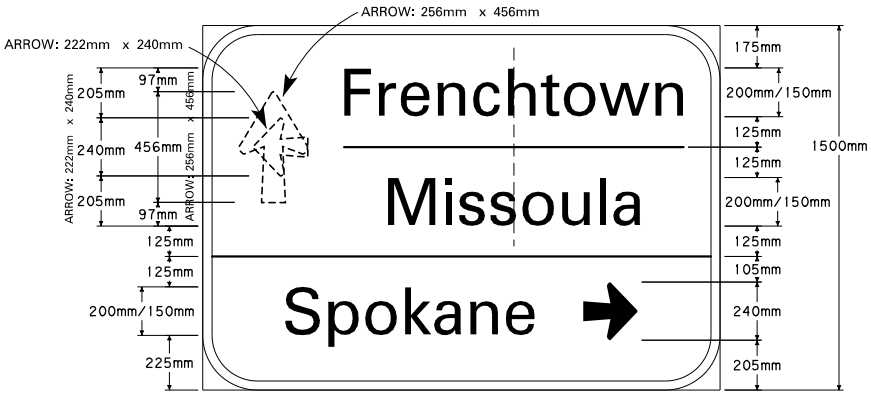


ARROW: 300mm x 280mm

White IV
Green IV
E mod
38mm Border
150mm Corner Radius



White IV
Green IV
Emod
38mm Border
225mm Corner Radius



PRIMARY / INTERSTATE

Revised 3/10

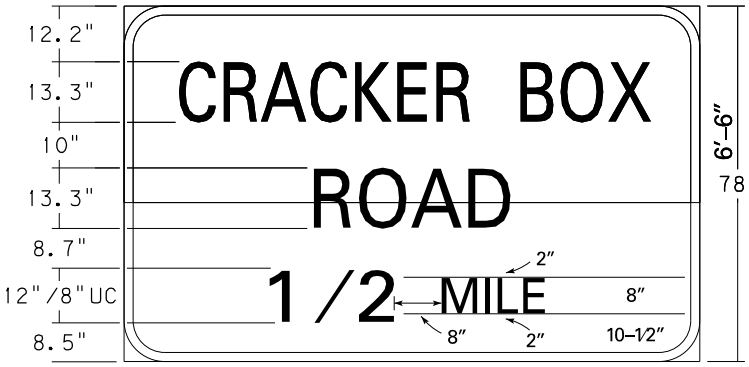
English Version
Primary/Secondary–STANDARD Sign Program
INTERSTATE–OREGON Sign Program



	0%	10%	20%	30%
3"	3.00	2.70	2.40	2.10
4"	4.00	3.60	3.20	2.80
6"	6.00	5.40	4.80	4.20
8"	8.00	7.20	6.40	5.60
10"	10.00	9.00	8.00	7.00
12"	12.00	10.80	9.60	8.40
18"	18.00	16.20	14.40	12.60

INTERSTATE – Upper/Lower Case
PRIMARY/SECONDARY – All Caps

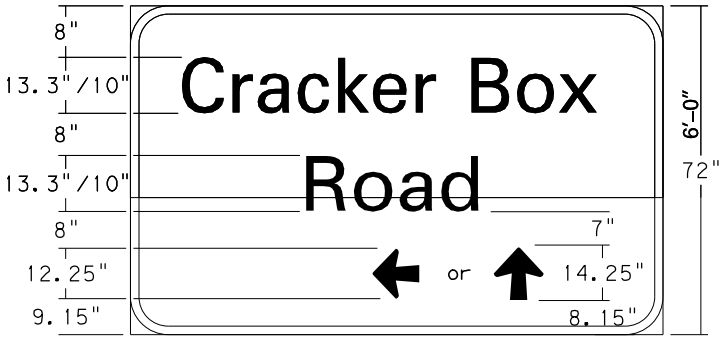
PRIMARY & SECONDARY



White IV
Green IV
Emod
2" Border
9" Corner Radius

17.25" x 20.25" ARROW If Used

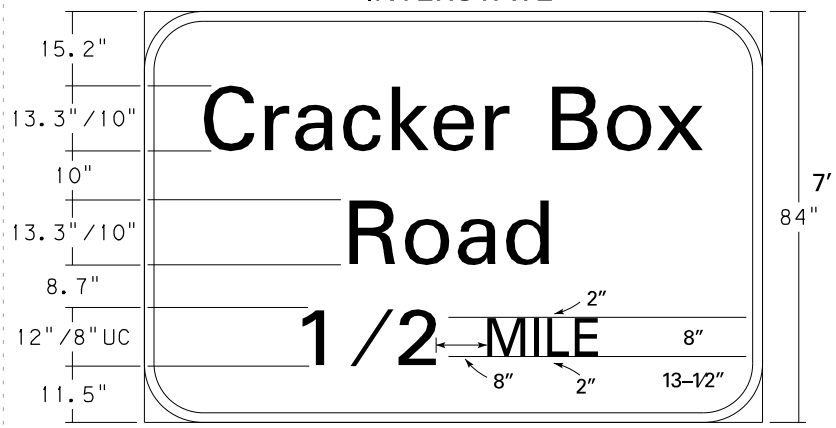
PRIMARY & SECONDARY



White IV
Green IV
Emod
2" Border
9" Corner Radius

14.25" x 12.25" ARROW

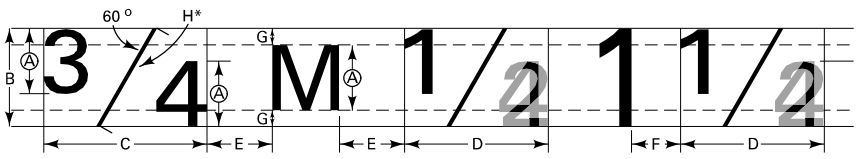
INTERSTATE



White IV
Green IV
Emod
2" Border
12" Corner Radius

17.25" x 20.25" ARROW If Used

FRACTIONS



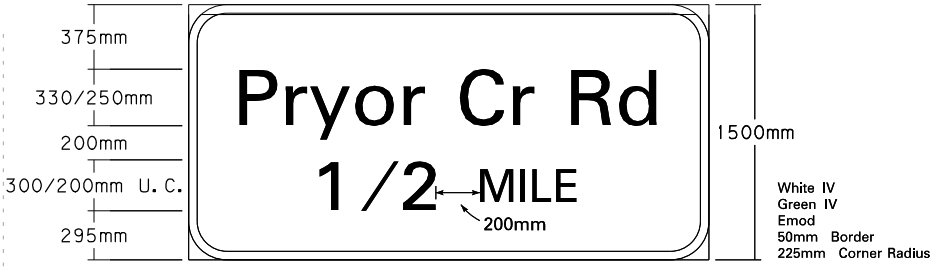
SYMBOL	TITLE	RATIO TO HEIGHT OF CAPITAL OR UPPER CASE
A	Letter Height	1.0 of Capital or Upper Case
B	Height of Rectangle	1.5 x A
C	Width of Rectangle	2.5 x A
D	Width of Rectangle	2.2 x A
E	Space to Next Character	.1 TO 1.5 X A
F	Whole Number to a Fraction	.50 to .75 x A
G	Space to Top or Bottom of Rectangle	.25 x A
H*	Length of Diagonal	1.7 x A

*Diagonal stroke of freation is to be centered optically.

PRIMARY / INTERSTATE

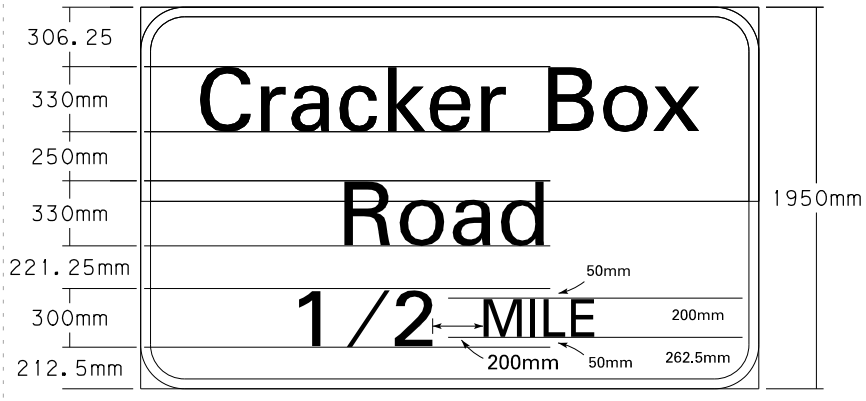
Revised 3/10

Metric Version
Primary/Secondary–STANDARD Sign Program
INTERSTATE–OREGON Sign Program



White IV
Green IV
Emod
50mm Border
225mm Corner Radius

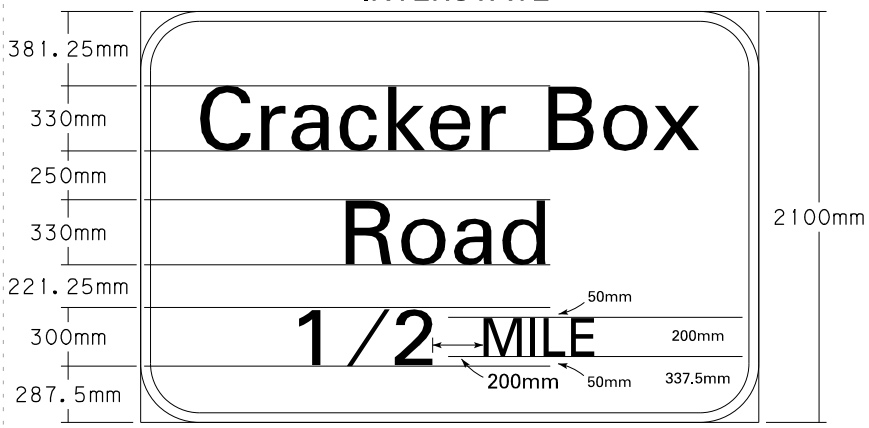
PRIMARY & SECONDARY



White IV
Green IV
Emod
50mm Border
225mm Corner Radius

430mm x 500mm ARROW If Used

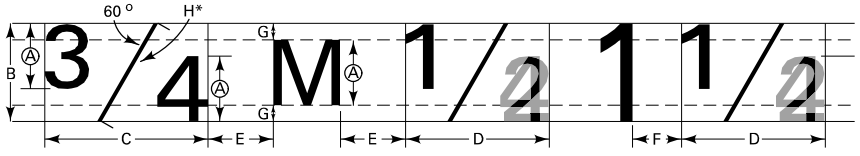
INTERSTATE



White IV
Green IV
Emod
50mm Border
300mm Corner Radius

430mm x 500mm ARROW If Used

FRACTIONS



SYMBOL	TITLE	RATIO TO HEIGHT OF CAPITAL OR UPPER CASE
A	Letter Height	1.0 of Capital or Upper Case
B	Height of Rectangle	1.5 x A
C	Width of Rectangle	2.5 x A
D	Width of Rectangle	2.2 x A
E	Space to Next Character	.1 TO 1.5 X A
F	Whole Number to a Fraction	.50 to .75 x A
G	Space to Top or Bottom of Rectangle	.25 x A
H*	Length of Diagonal	1.7 x A

*Diagonal stroke of freation is to be centered optically.

English Version

EXPRESSWAY GUIDE SIGNS
INTERCHANGE SEQUENCE SIGNS
EXPRESSWAY
MUTCD 2009 Edition, Sect. 2E.15, Pg.189, Table 2E–3



FREEWAY GUIDE SIGNS
INTERCHANGE SEQUENCE SIGNS
FREEWAY
MUTCD 2009 Edition, Sect. 2D.15, 91Pg.1, Table 2E–5

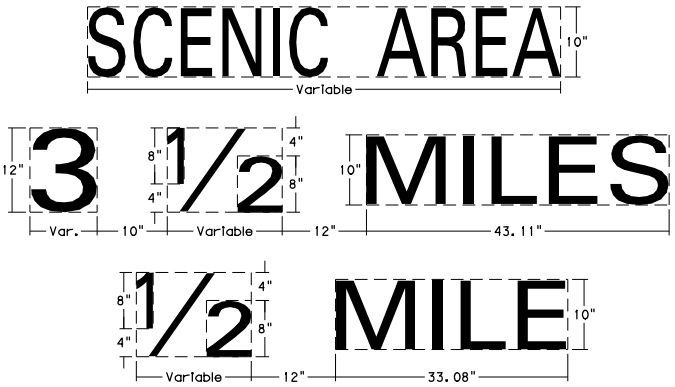


FRACTIONS Size of the Fraction is determinged as follows:

C / D	B	Width x Height		Width x Height		Width x Height		Width x Height		Width x Height		Width x Height	
G	H*	Space	Diag.L.	Space	Diag.L.	Space	Diag.L.	Space	Diag.L.	Space	Diag.L.	Space	Diag.L.
Upper Case		*8"*		*10.67"*		*13.33"*		*16"*		*20"*		*24"*	
Lower Case		6		8		10		12		15		18	
Fraction	1/8	13.2	9.	17.6	12.	22.	15.	26.4	18.	33.	22.5	39.6	27.
Symbol	D	1.5	10.2	2.	13.6	2.5	17.	3.	20.4	3.75	25.5	4.5	30.6
Fraction	1/4	13.2	9.	17.6	12.	22.	15.	26.4	18.	33.	22.5	39.6	27.
Symbol	D	1.5	10.2	2.	13.6	2.5	17.	3.	20.4	3.75	25.5	4.5	30.6
Fraction	3/8	15.	9.	20.	12.	25.	15.	30.	18.	37.5	22.5	45.	27.
Symbol	C	1.5	10.2	2.	13.6	2.5	17.	3.	20.4	3.75	25.5	4.5	30.6
Fraction	1/2	13.2	9.	17.6	12.	22.	15.	26.4	18.	33.	22.5	39.6	27.
Symbol	D	1.5	10.2	2.	13.6	2.5	17.	3.	20.4	3.75	25.5	4.5	30.6
Fraction	5/8	15.	9.	20.	12.	25.	15.	30.	18.	37.5	22.5	45.	27.
Symbol	C	1.5	10.2	2.	13.6	2.5	17.	3.	20.4	3.75	25.5	4.5	30.6
Fraction	3/4	15.	9.	20.	12.	25.	15.	30.	18.	37.5	22.5	45.	27.
Symbol	C	1.5	10.2	2.	13.6	2.5	17.	3.	20.4	3.75	25.5	4.5	30.6
Fraction	7/8	15.	9.	20.	12.	25.	15.	30.	18.	37.5	22.5	45.	27.
Symbol	C	1.5	10.2	2.	13.6	2.5	17.	3.	20.4	3.75	25.5	4.5	30.6

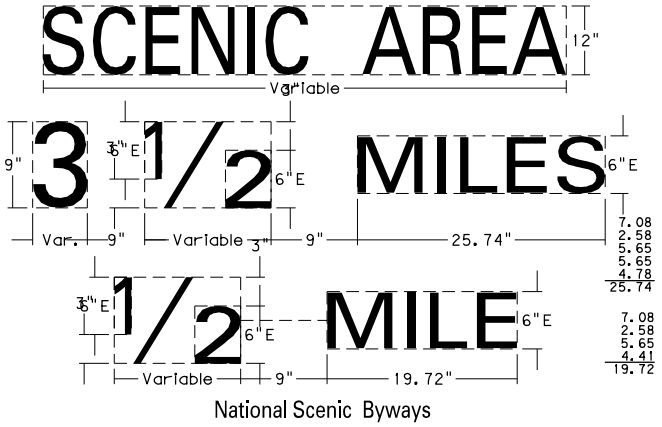
Primary/Secondary–STANDARD Sign Program
INTERSTATE–OREGON Sign Program

EXPRESSWAY GUIDE SIGNS
REST AREA & SCENIC AREA SIGNS
EXPRESSWAY
MUTCD 2009 Edition, Sect. 2D.15, Pg.189, Table 2E–3



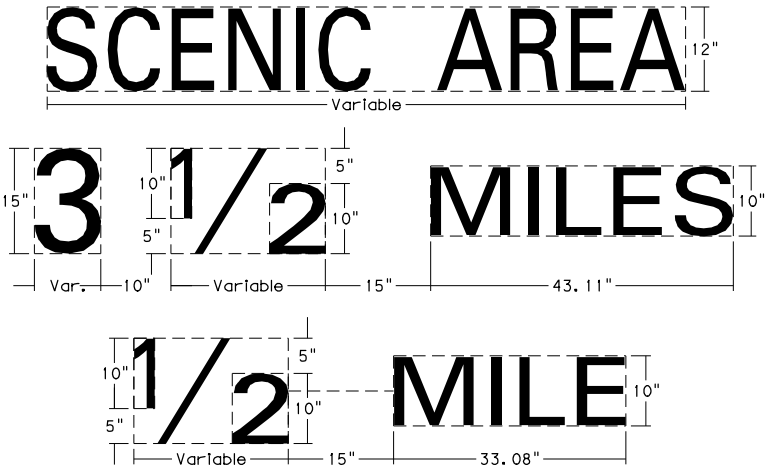
REST AREA – TOURIST INFO – WELCOME CENTER

FREEWAY GUIDE SIGNS
INTERSTATE – Upper/Lower Case
PRIMARY/SECONDARY – All Caps
D6-4 Series
FREEWAY
MUTCD 2009 Edition, Sect. 2D.55, 91 Pg.1, Table 2E–5



National Scenic Byways

FREEWAY GUIDE SIGNS
REST AREA & SCENIC AREA SIGNS
FREEWAY
MUTCD 2009 Edition, Sect. 2D.15, 91 Pg.1, Table 2E–5



REST AREA – TOURIST INFO – WELCOME CENTER

	0%	10%	20%	30%
3"	3.00	2.70	2.40	2.10
4"	4.00	3.60	3.20	2.80
6"	6.00	5.40	4.80	4.20
8"	8.00	7.20	6.40	5.60
10"	10.00	9.00	8.00	7.00
12"	12.00	10.80	9.60	8.40
18"	18.00	16.20	14.40	12.60

Metric Version

INTERSTATE – Upper/Lower Case
PRIMARY/SECONDARY – All Caps
Primary/Secondary–STANDARD Sign Program
INTERSTATE–OREGON Sign Program

EXPRESSWAY GUIDE SIGNS
INTERCHANGE SEQUENCE SIGNS

EXPRESSWAY
MUTCD 2009 Edition, Sect. 2E.15, Pg.189, Table 2E–3



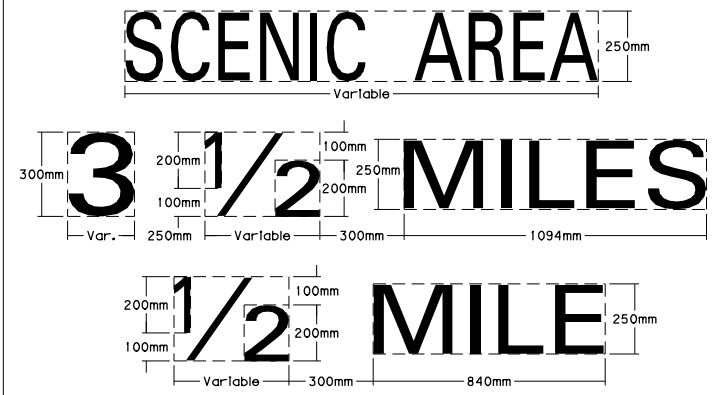
FREEWAY GUIDE SIGNS
INTERCHANGE SEQUENCE SIGNS

FREEWAY
MUTCD 2009 Edition, Sect. 2D.15, 91Pg.1, Table 2E–5



EXPRESSWAY GUIDE SIGNS
REST AREA & SCENIC AREA SIGNS

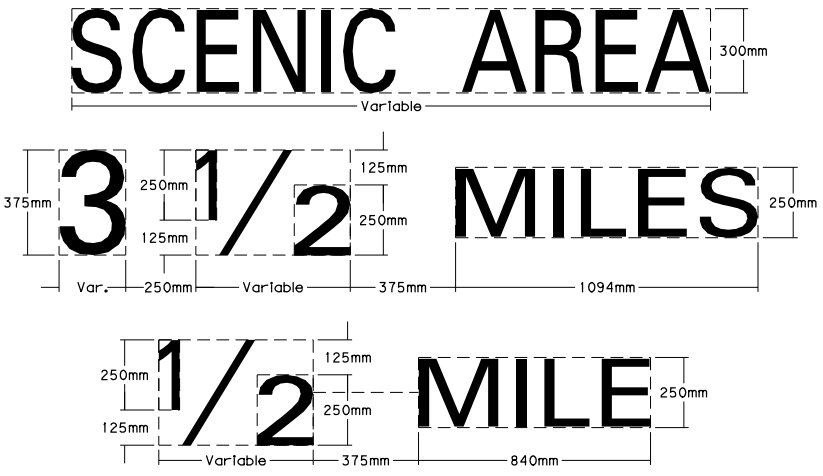
EXPRESSWAY
MUTCD 2009 Edition, Sect. 2E.15, Pg.189, Table 2E–3



REST AREA – TOURIST INFO – WELCOME CENTER

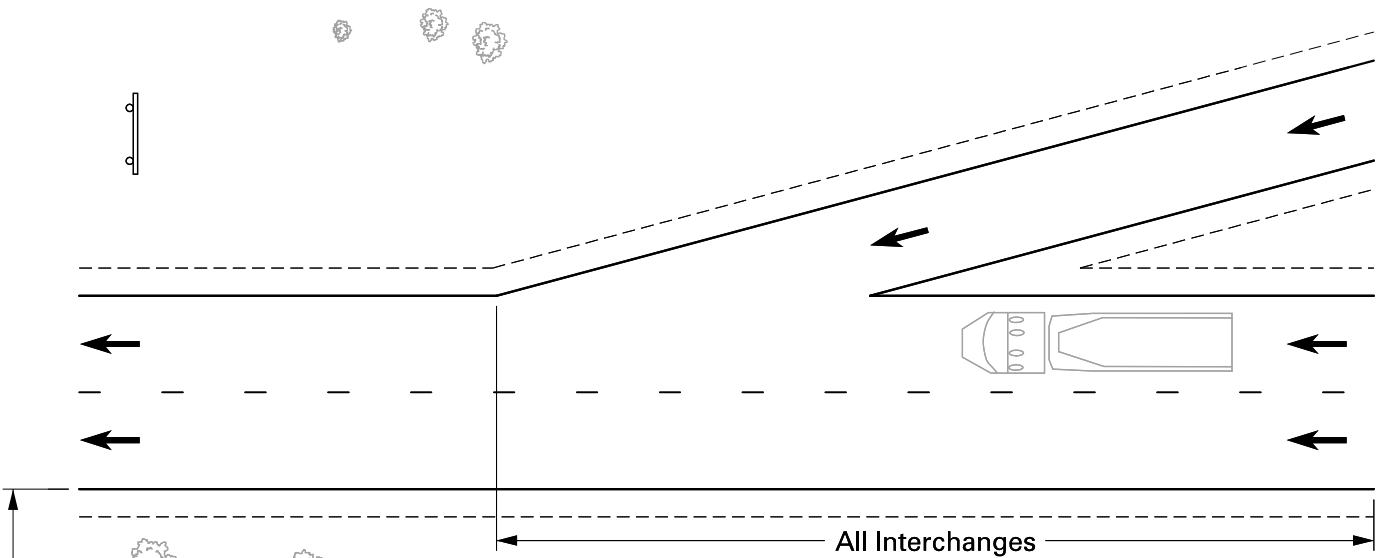
FREEWAY GUIDE SIGNS
REST AREA & SCENIC AREA SIGNS

FREEWAY
MUTCD 2009 Edition, Sect. 2D.15, 91Pg.1, Table 2E–5



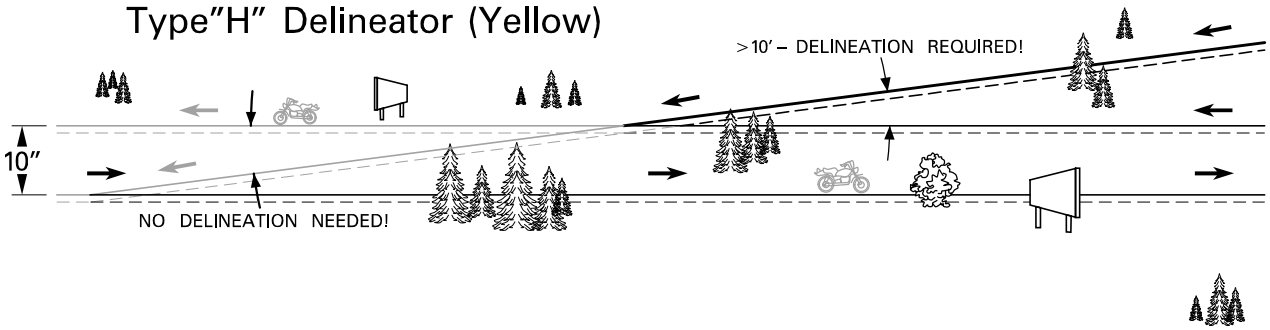
REST AREA – TOURIST INFO – WELCOME CENTER

INTERSTATE HIGHWAY Inside Shoulder Delineation



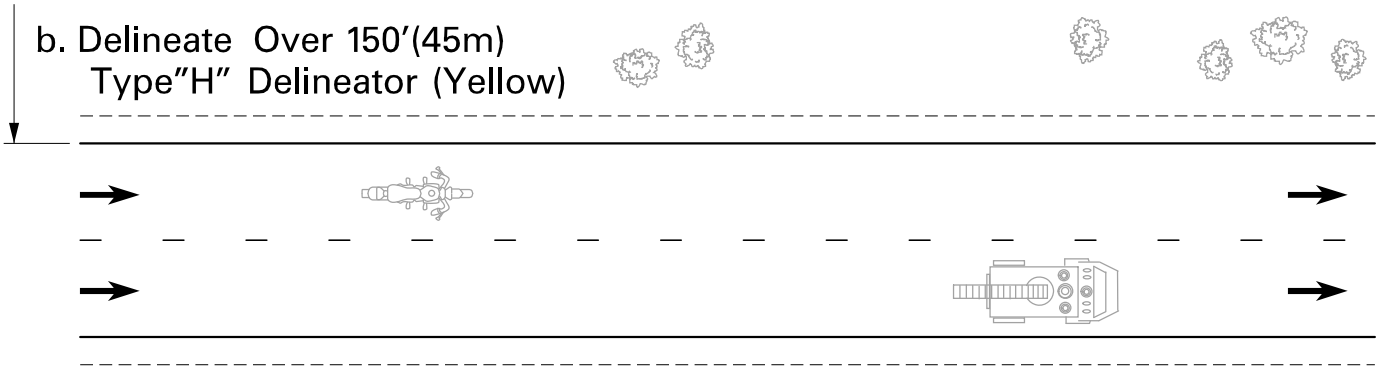
c. Starting at Taper Transition of off–ramp to end of taper of on–ramp.
Type"H" Delineator (Yellow)

a. Delineate split 10'(3m) + directional profile elevation
Type"H" Delineator (Yellow)



150"

b. Delineate Over 150'(45m)
Type"H" Delineator (Yellow)



TRAFFIC ENGINEERING MANUAL
19.8.3.2 Interstate Highways
2. Inside Shoulders: a, b, c

English Version
STANDARD Sign Program

D-3's

6" Letter Height	
Min. 2" +	I Max. + 4"
8" Letter Height	
Min. 3" +	I Max. + 5"

Revised 1/12

ALL SERIES "B" LEGEND.
CAN REDUCE SPACING UP TO 30%

0% 4"	0% 6"	0% 8"
10% 3.6"	10% 5.4"	10% 7.2"
20% 3.2"	20% 4.8"	20% 6.4"
30% 2.8"	30% 4.2"	30% 5.6"

24"x18" Dble. Line
Used Only w/3" + Lt/Rt Edge

6″/4″ Standard (up to 30% Reduction)



5″/4″ to fit 42″ plate



Font: "B"
Arrows: 6″x4″
Border: 1/2″
Corner Radius: 1–1/2″

GREAT FALLS

D3 Signing

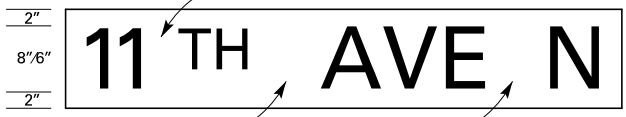
1/2 Of The Letter Height (3″)



Small Letter Height (4″)

OH-D3 Signing

1/2 Of The Letter Height (4″)



Small Letter Height (6″)

SPELL #'s ONE–TEN
Use #'s 11 & Up.

MISSOULA

D3 Signing

OH-D3 Signing

English Version

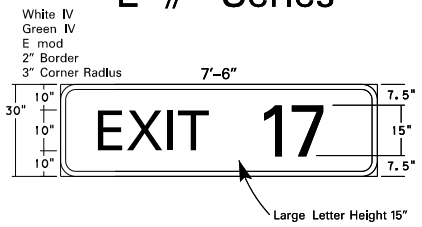
EXIT - Gore Signs

INTERMEDIATE & MAJOR INTERCHANGES

Standard Highway Signs pg. 8–11

Revised 2/10

E–# Series



PANEL SIZES
6'x5' (72"x60") for 2 Digits
7'6"x5' (90"x60") for 3 Digits
9'x5' (108"x60") for 3 Digits & Letter

Primary/Secondary–STANDARD Sign Program
INTERSTATE–OREGON Sign Program
INTERSTATE – Upper/Lower Case
PRIMARY/SECONDARY – All Caps

Interchanges
Hwy's, Primary & Secondary

E – 11.29"
X – 12.79"
I – 4.83"
T – 8.81"
Total 37.72"

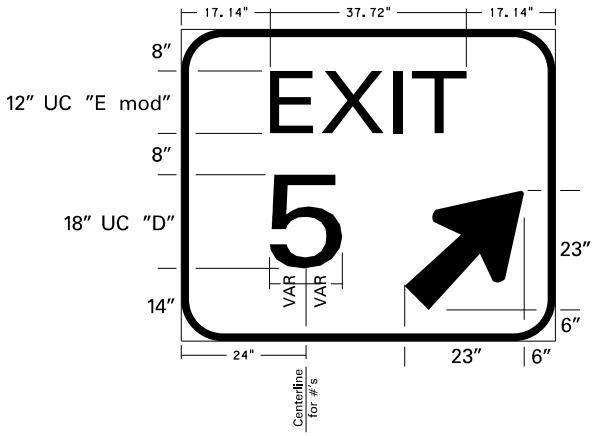
WORD (E mod) 12"
NUMBERS & LETTERS (D) 18"
ARROW 18–1/4" x 29–1/4" =@ 45° (23" x 23")

1) Right Edge – Always 6"
2) Single & Double Digits——
   Total Length (Number) /2 = x – 24 = Left Edge
3) Three Digit
   Total Length (Number) /2 = x – 33 = Left Edge
4) Three Digit & Letter
   Total Length (Number & Letter) /2 = x – 42 = Left Edge

ALUM INCR
BORDER 1–1/2"
CORNER R. 9"
LEGEND White (IV)
BACKGROUND Green (IV)

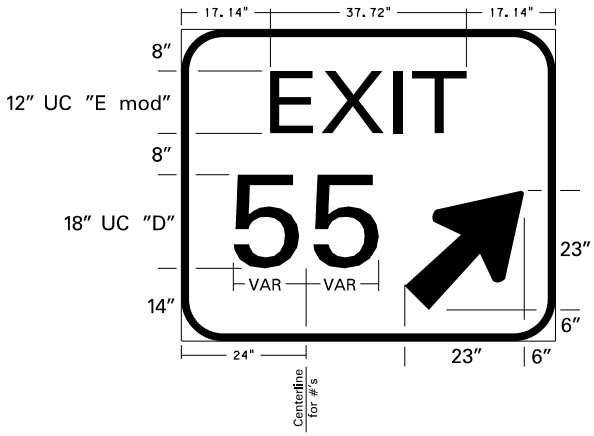
E5–1a

6' x 5' (72" x 60")
30.0 sq. ft.



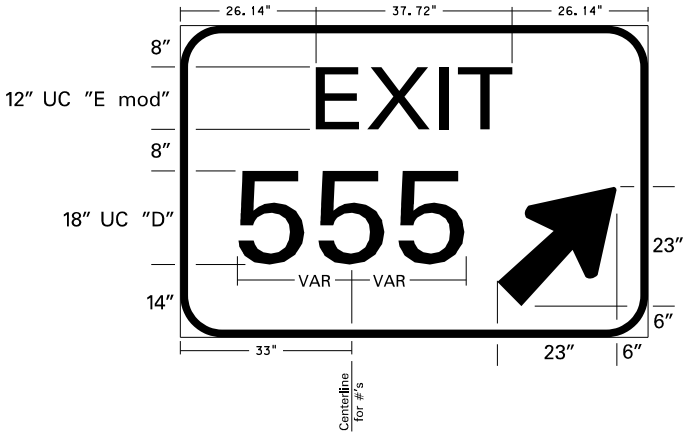
E5–1b

6' x 5' (72" x 60")
30.0 sq. ft.



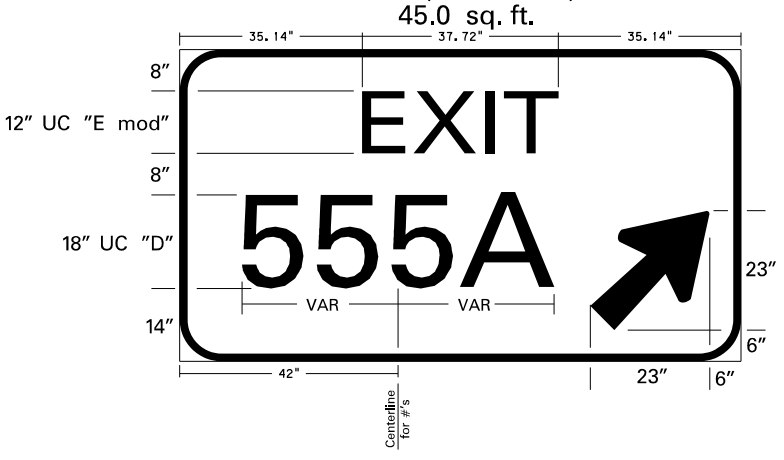
E5–1c

7'–6"'x5' (84" x 60")
37.5 sq. ft.



E5–1d

9'x5' (108" x 60")
45.0 sq. ft.



English Version

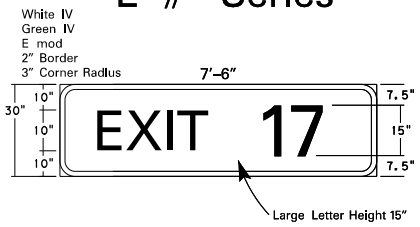
EXIT - Gore Signs

MINOR INTERCHANGES

Standard Highway Signs pg. 8–11

Revised 2/10

E–# Series



PANEL SIZES
5'x4' (60"x48") for 1 & 2 Digits
5'6"x4' (66"x48") for 3 & 4 Digits
Primary/Secondary–STANDARD Sign Program
INTERSTATE–OREGON Sign Program

INTERSTATE – Upper/Lower Case
PRIMARY/SECONDARY – All Caps
Fishing Accesses
Farm & Ranch Approaches

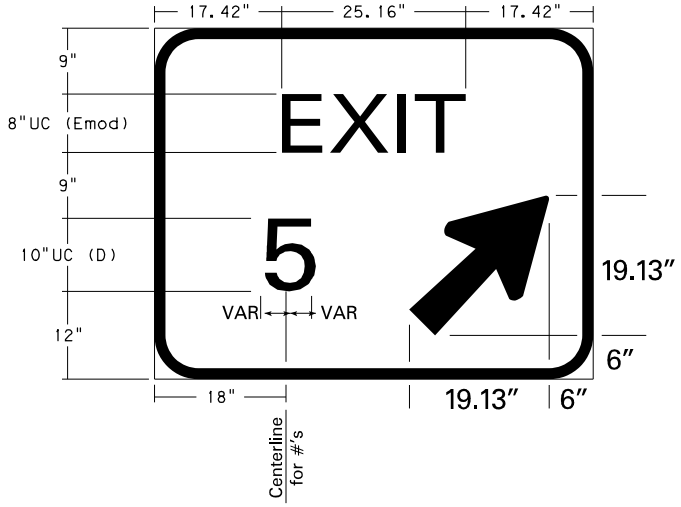
E – 7.53"
X – 8.53"
I – 3.22"
T – 5.88"
Total 25.16"

WORD (E mod) 8"
NUMBERS & LETTERS (D) 10"
ARROW 15–1/8" x 24–1/4" @ 45° (19.13 x 19.13)
1) Right Edge – Always 6"
2) Single & Double Digits
Total Length (Number)/2 = x – 18 = Left Edge
3) Three Digit
Total Length (Number)/2 = x – 22 = Left Edge

ALUM INCR
BORDER 1–1/2"
CORNER R. 6"
LEGEND White (IV)
BACKGROUND Green (IV)

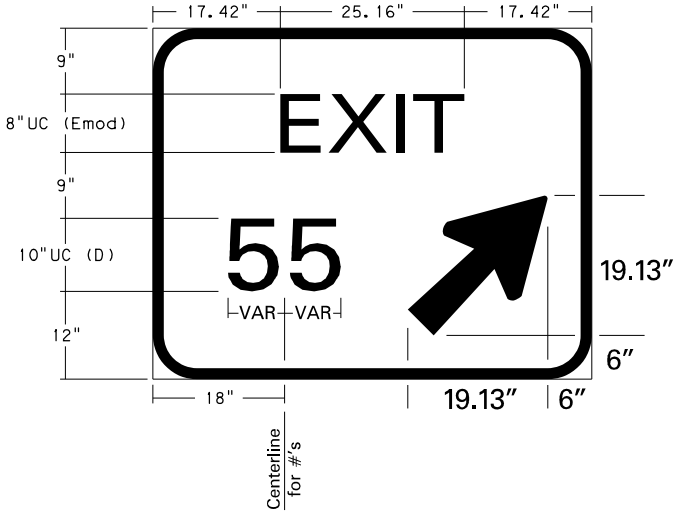
E5–1a

5'x4' (60" x 48")
20.0 sq. ft.



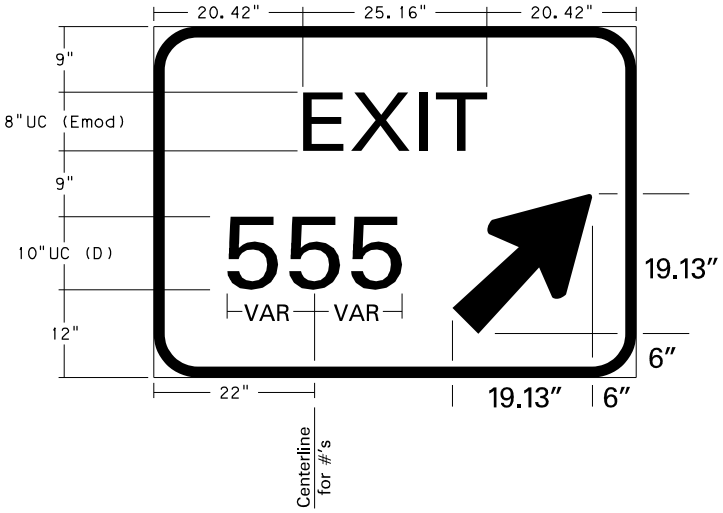
E5–1b

5'x4' (60" x 48")
20.0 sq. ft.



E5–1c

5'–6" x 4'–6" (66" x 48")
22.0 sq. ft.



Metric Version

EXIT - Gore Signs

INTERMEDIATE & MAJOR INTERCHANGES

Revised 2/10

Standard Highway Signs pg. 8–11

PANEL SIZES
1.8m.x1.5m. for 2 Digits
2.3m.x1.5m. for 3 Digits
2.7m.x1.5m. for 3 Digits & Letter

Primary/Secondary–STANDARD Sign Program
INTERSTATE–OREGON Sign Program

INTERSTATE – Upper/Lower Case
PRIMARY/SECONDARY – All Caps

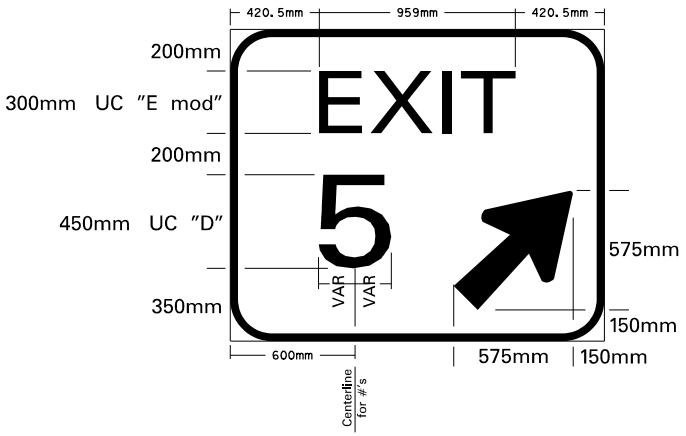
E – 287mm
X – 325mm
I – 123mm
T – 224mm
Total 959mm

WORD (E mod) 300mm
NUMBERS & LETTERS (D) 450mm
ARROW 465mm x 740mm =@ 45° (575mm x 575mm)

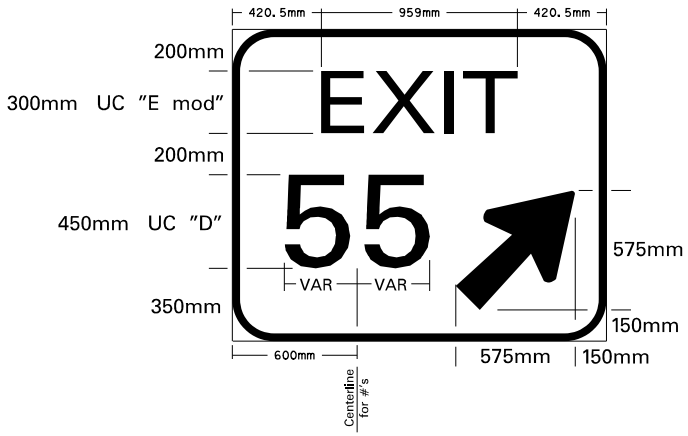
1) Right Edge – Always 150mm
2) Single & Double Digits—
   Total Length (Number)/2 = x – 600mm = Left Edge
3) Three Digit
   Total Length (Number)/2 = x – 825mm = Left Edge
4) Three Digit & Letter
   Total Length (Number & Letter)/2 = x – 1050mm = Left Edge

ALUM INCR
BORDER 38mm
CORNER R. 225mm
LEGEND White (IV)
BACKGROUND Green (IV)

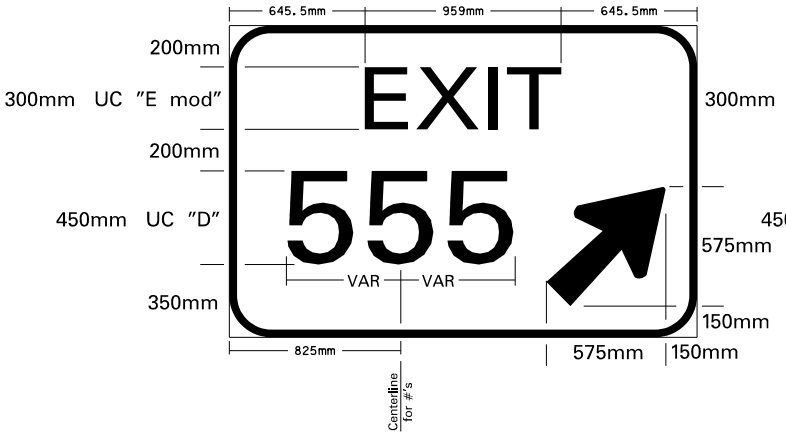
E5–1a
1.8m x 1.5m



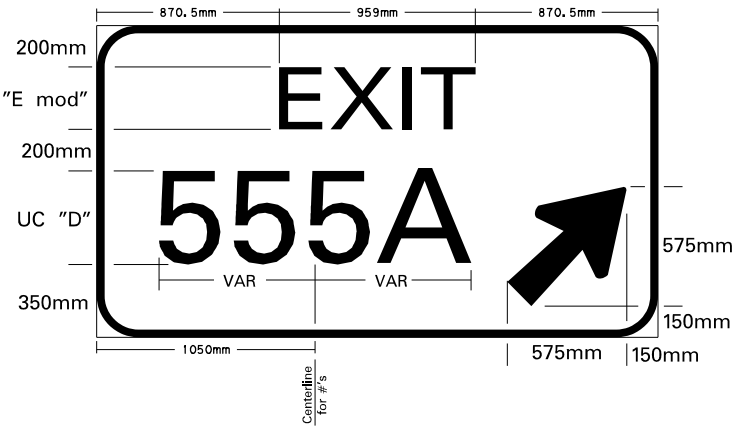
E5–1b
1.8m x 1.5m



E5–1c
2.25m x 1.5m



E5–1d
2.7m x 1.5m



Metric Version

EXIT - Gore Signs

MINOR INTERCHANGES

Revised 2/10

PANEL SIZES
1.5m.x1.2m. for 1 & 2 Digits
1.65m.x1.2m. for 3 & 4 Digits

Primary/Secondary–STANDARD Sign Program
INTERSTATE–OREGON Sign Program

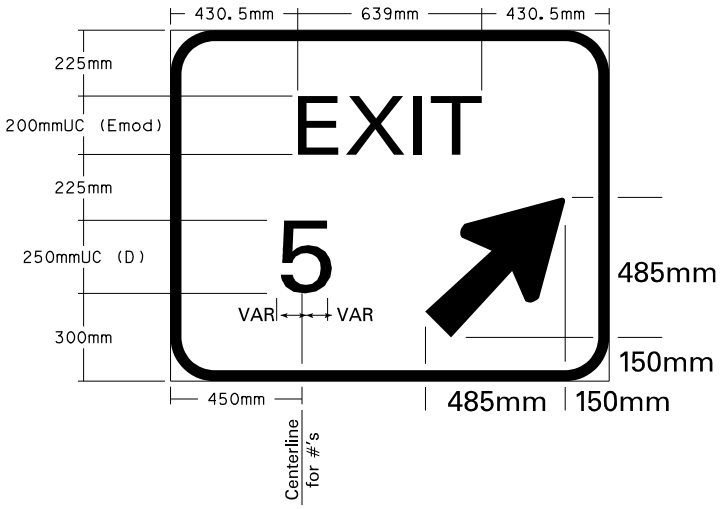
INTERSTATE – Upper/Lower Case
PRIMARY/SECONDARY – All Caps

WORD (E mod) 8" (200mm)
NUMBERS & LETTERS (D) 250mm
ARROW 385mm x 615mm @ 45° (485mm x 485mm)
1) Right Edge – Always 150mm
2) Single & Double Digits
Total Length (Number)/2 = x – 450mm = Left Edge
3) Three Digit
Total Length (Number)/2 = x – 550mm = Left Edge

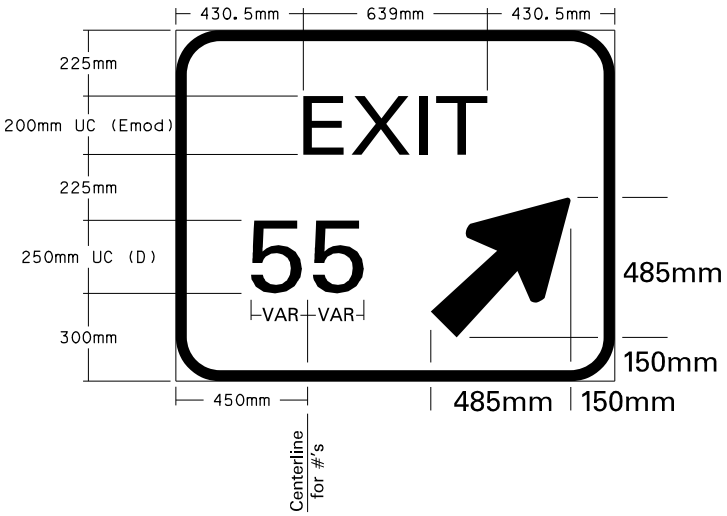
E – 191mm
X – 217mm
I – 82mm
T – 149mm
Total 639mm

ALUM INCR
BORDER 38mm
CORNER R. 150mm
LEGEND White (IV)
BACKGROUND Green (IV)

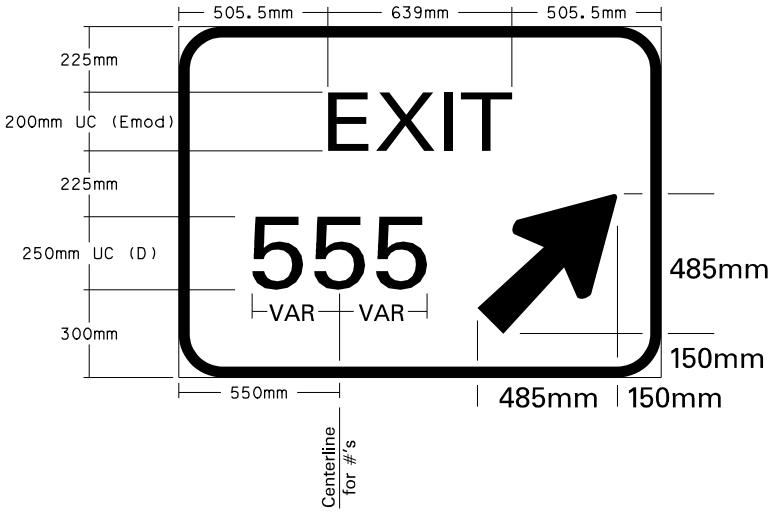
E5–1a
1.5m x 1.2m



E5–1b
1.5m x 1.2m



E5–1c
1.65m x 1.2m



HISTORIC MARKER

Preliminary Guide Lines

FONT	T.H.	T.W.
67	0.2	0.2
67	1.5	1.275

2-1/2" **Heading** (63mm)
1-1/2 **Legend** (38mm)
1/2" **Spacing** between lines (25mm)

Sub-Heading 1-9/16" (40mm)

Spacing from **top** to **bottom**
- top is 2/5 of space left over.
- bottome is 3/5 of space left over.

Sign Size: **6'-0"** (72") **x 4'-0"** (48")
1.8m (1,800mm) x **1.2m** (1,200mm)
Radius: **3"** (75mm)

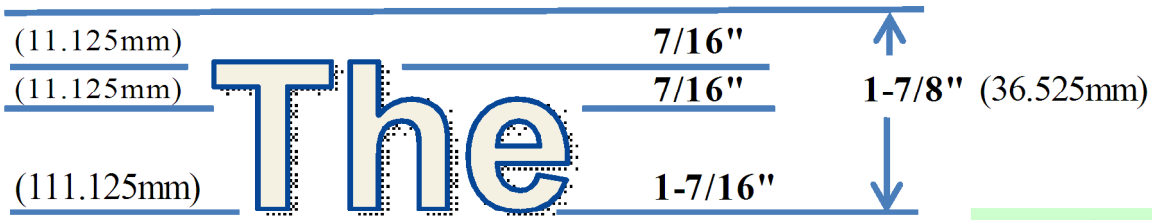
Left & Right margins are **6" (150mm)**

Approximately: **80** characters per line
20 lines of legend

1,600 characters max (**1,200** prefered)
*Not including 2-1/2" Header (one liner)

Sign made of High Desity Polyethylene
"No Fibergalss"

Special Provision: TRSP.36 Historic Marker Signing (Revised 5-1-09)



Special Provision: **TRSP.36**

Routered Signs: Bit size 1/8" to 1/4" being normal with **3/16"** being the typical application
Variable is amount of lettering on sign:
Small amount lettering, bigger bit
A lot of lettering, a thinner bit

The **Wood S4S** post supports for the sign panels are fir (**Treated Fir is preferred**)
Then stain to match the sign.

Specs for plastic, etc are in commodity spec area, pg.5

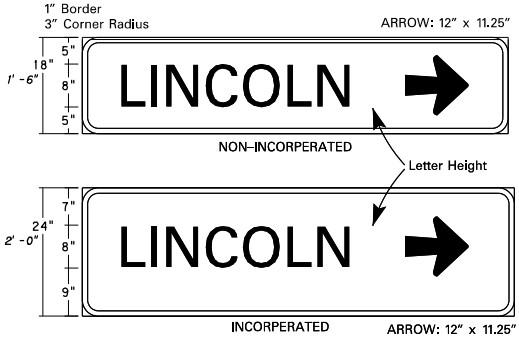
$4,202. average

Sign Specs.

PRIMARY & SECONDARY

G8 Series

White IV
Green IV
E mod
1" Border
3" Corner Radius

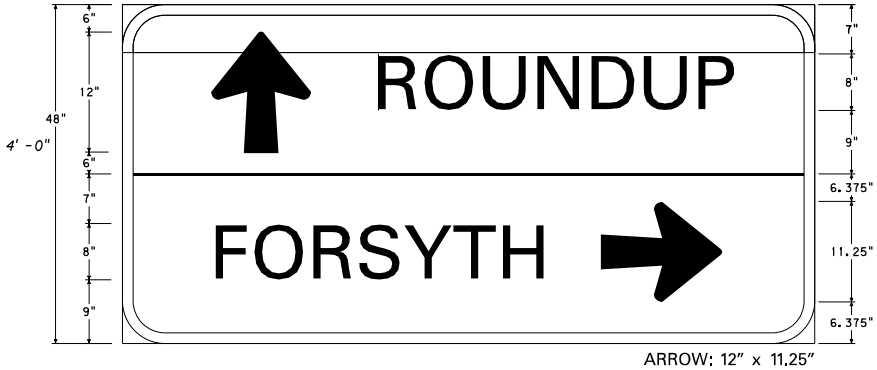


PRIMARY/SECONDARY – All Caps
Scenic Route/Loop Signing (G Series)

G9 Series

White IV
Green IV
E mod
1"–2" Border 1–1/2" Preferred
6" Corner Radius

CENTER Shorter Legend Over Longer Legend



Corner Radius:	
1'–6" to 2'–6"	3"
3'–0" to 4'–6"	6"
5'–0" to 6'–6"	9"
7'–0" & Greater	12"

Sign Border:		
6" to 8" L.H.	1"	
8" w/Arrow	1–1/2"	
8" & Greater L.H.	2"	6'–6" or > Smallest Sign Dimension.

Legend Order

1st Line: Up Arrow Legend
2nd Line: Left Arrow Legend
3rd Line: Right Arrow Legend
4th Line: Down Arrow Legend

	0%	10%	20%	30%
3"	3.00	2.70	2.40	2.10
4"	4.00	3.60	3.20	2.80
6"	6.00	5.40	4.80	4.20
8"	8.00	7.20	6.40	5.60
10"	10.00	9.00	8.00	7.00
12"	12.00	10.80	9.60	8.40
18"	18.00	16.20	14.40	12.60

ARROW SIZE	Letter Height	# Lines if Applicable	Angle/Arrow
12" x 11–1/4"	8" LH	2 Line	
17–1/4" x 14–1/4"	8" LH	4 Line w/milage	
17–1/4" x 14–1/4"	8" /6" LH	3 &4 Line	
17–1/4" x 14–1/4"	10.67" /8" LH	2 Line	
25" x 21–7/8"	16" /12" LH	2 Line–Arrow 3rd Line	45° angle

Expressway - Partial Control of Access
Freeway - Full Control of Access

Expressway Guide Signs (Interstate)					
Advance Guide, Exit Direction & OH Guide Signs					
NAMES OF DESTINATIONS	Minor	Intermediate	Major a)	Major b)	Overhead
Upper-Case Letters	10.67	13.333	20	16	16
Lower-Case Letters	8	10	15	12	12
Distance Numberals	10	12	18	15	15
Distance Fraction Numerals	8	10	12	10	10
Distance Words	8	10	12	10	10
Action Message Words	8	10	10	10	10

Minor - Traffic Local & Light
Intermediate - Urban/Rural Routes not Major
Major - a) w/other expressways/freeways.
b) w/high volume, heavy traffic, road users unfamiliar.

Expressway Guide Signs (Interstate))	
Interchange Sequence or Community Interchanges Identification Signs	
NAMES OF DESTINATIONS	Minimum
Upper-Case Letters	10.67
Lower-Case Letters	8
Distance Numberals	10.67
Distance Fraction Numerals	8

Expressway Guide Signs (Interstate))	
Rest Area, Scenic Area, & Roadside Area Signs	
NAMES OF DESTINATIONS	Minimum
Words	10
Distance Numberals	12
Distance Fraction Numerals	8
Distance Words	8
Action Message Words	10

Expressway - Partial Control of Access
Freeway - Full Control of Access

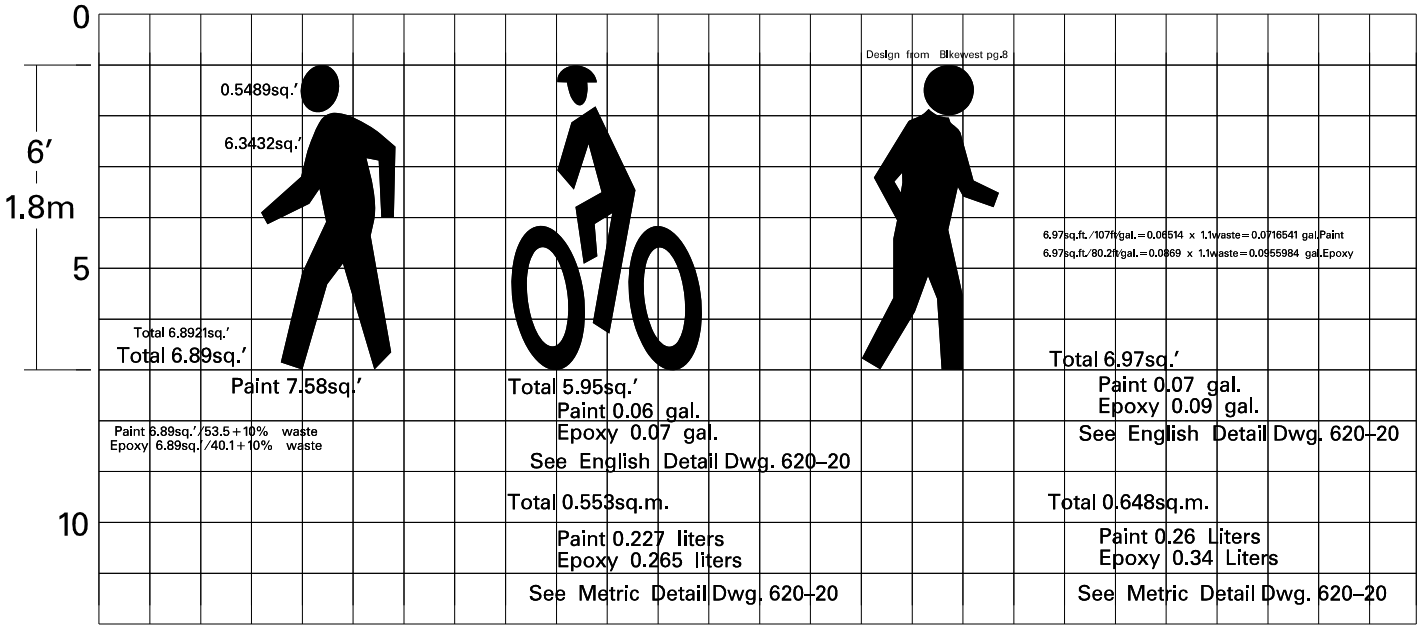
Freeway Guide Signs (Interstate)					
Advance Guide, Exit Direction & OH Guide Signs					
NAMES OF DESTINATIONS	Minor	Intermediate	Major a)	Major b)	Overhead
Upper-Case Letters	13.333	16	20	20	16
Lower-Case Letters	10	12	15	15	12
Distance Numberals	12	15	18	18/15	15
Distance Fraction Numerals	8	10	12	12/10	10
Distance Words	8	10	12	12/10	10
Action Message Words	8	10	12	12/10	10

Minor - Traffic Local & Light
Intermediate - Urban/Rural Routes not Major
Major - a) w/other expressways/freeways.
b) w/high volume, heavy traffic, road users unfamiliar.

Freeway Guide Signs (Interstate)	
Interchange Sequence or Community Interchanges Identification Signs	
NAMES OF DESTINATIONS	Minimum
Upper-Case Letters	13.333
Lower-Case Letters	10
Numberals	13.333
Fraction Numerals	10

Freeway Guide Signs (Interstate)	
Rest Area, Scenic Area, & Roadside Area Signs	
NAMES OF DESTINATIONS	Minimum
Words	12
Distance Numberals	15
Distance Fraction Numerals	10
Distance Words	10
Action Message Words	12

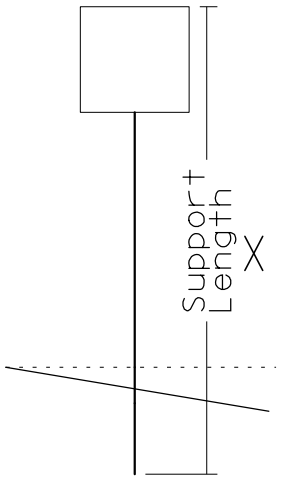
Words & Symbols



SIGN SUPPORT LENGTHS

Wood Posts

Support Length

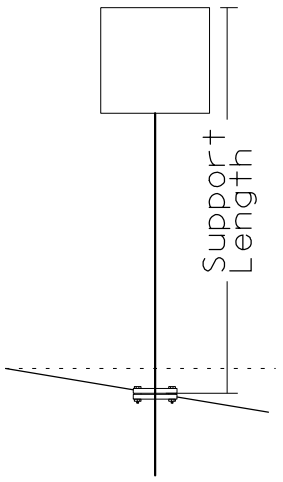


4″ Dia. Pole
5″ Dia. Pole
6″ Dia. Pole –Behind Guardrail Only!

X STANDARD BREAKAWAY DEVICE:
- FOR WOOD POST SEE DETAILED DRAWING 619-20.
- FOR STRUCTURAL STEEL SEE DETAILED DRAWING 619-13.

PIPE

(Support Length x Weight) + Breakaway Device



ROUND PIPE SUPPORT		
TUBE SIZE	PIPE WEIGHT	BREAKAWAY WEIGHT
3"	7.58 lbs/ft	28.03 lbs
3½"	9.11 lbs/ft	35.85 lbs
4"	10.79 lbs/ft	38.44 lbs
5"	14.62 lbs/ft	61.51 lbs
6"	18.97 lbs/ft	81.54 lbs

X STANDARD BREAKAWAY DEVICE:
- FOR WOOD POST SEE DETAILED DRAWING 619-20.
- FOR STRUCTURAL STEEL SEE DETAILED DRAWING 619-13.

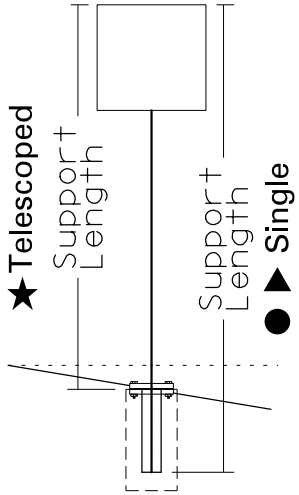
Length + #'s

■ FRANGIBLE SIGN POST BREAKAWAY DEVICE REQUIRED. SEE SPECIAL PROVISIONS.

Length + per. ea.

Square Tube

(Support Length x Weight) + Square Tube Anchor



SQUARE TUBE SUPPORT		
TUBE SIZE	WEIGHT	WALL THICKNESS
2"	2.42 lbs/ft	0.105" (12 GAUGE)
2¼"	2.77 lbs/ft	0.105" (12 GAUGE)
2½"	3.14 lbs/ft	0.105" (12 GAUGE)

SQUARE TUBE ANCHOR		
TUBE SIZE	WEIGHT	WALL THICKNESS
2½"	18.36 lbs ea.	0.135"
3"	22.98 lbs ea.	0.188"

For estimating purposes only.

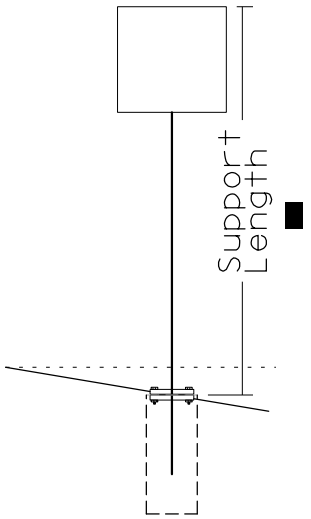
▲ SINGLE SQUARE TUBE REQUIRED. MOUNTED IN HEAVY DUTY STUB. SEE SPECIAL PROVISIONS.

● SINGLE SQUARE TUBE WITH SLIP BASE BREAKAWAY REQUIRED. MOUNTED IN HEAVY DUTY STUB. SEE SPECIAL PROVISIONS.

★ TELESCOPED SQUARE TUBES (56 mm & 64 mm) WITH SLIP BASE BREAKAWAY REQUIRED. MOUNTED IN HEAVY DUTY STUB. SEE SPECIAL PROVISIONS.

S /W Shape

(Support Length x Weight) + Breakaway Device



S3x5.7
S4x7.7
S5x10
W4x13
W8x18
W8x24
W12x30

■ FRANGIBLE SIGN POST BREAKAWAY DEVICE REQUIRED. SEE SPECIAL PROVISIONS.

SIGN DESIGN SPECS

Sign Corner Radius			
Smallest Sign Dimension		**Corner Radius**	
0'-0" - 1'-6"	0mm - 38mm	1-1/2" (38mm)	**D3's**
>24" - 30"	>600mm - 760mm	1-7/8" (48mm)	**D3's**
1'-6" - 2'-6"	0mm - 900mm	3" (75mm)	
3'-0" - 4'-6"	1050mm - 1350mm	6" (150mm)	
5'-0" - 6'-6"	1500mm - 1950mm	9" (225mm)	
7'-0" & Greater	2100mm & Greater	12" (300mm)	

Sign Margin		
Letter Size		**Margin**
1" - 2"	25mm - 50mm	3/8" (9.5mm)
0'-0" - 4"(6")"	0mm - 150mm(200mm)	1/2" (13mm)
6" - 8"	150mm - 200mm	1/2" (13mm)
8" & Greater	200mm & Greater	1/2" (13mm)

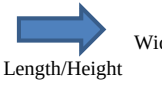
Note: Margin is deleted when border is to be white.

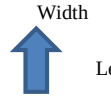
Sign Border			
Letter Size		**Border**	
English	**Metric**	**English**	
1" - 2"	25mm - 50mm	7/16" (11.125mm)	
0'-0" - 4"(6")"	0mm - 150mm(200mm)	1/2" (13mm)	
>24" - 30"	>600mm - 760mm	3/4" (19mm)	
6" - 8"	150mm - 200mm	1" (25mm)	**D3's**
9" & Greater	225mm & Greater	2" (50mm)	
6'-6" (1.95m) or > Smallest Sign Dimension			

Might consider 7' (2.1m) smallest Sign Dimension?

Arrow Sizes			
Upper Case	Width	Height	
* 4" (100mm) - 5" (125mm)	6" (150mm)	9" (225mm)	6x9
* 6" (150mm) - 6-7/8" (175mm)	8-7/16" (210mm)	9-9/16" (240mm)	8.44x9.56
8" (200mm)	11-1/4" (280mm)	12" (300mm)	11-1/4x12
? 10" (250mm) >	14-1/2" (360mm)	17-1/4" (430mm)	14-1/2x17-1/4
D3 - Ground Mount	6" (150mm)	4" (100mm)	6x4
D3- Overhead	6" (150mm)	9" (225mm)	6x9

*** If legend has two lines, go to next size larger arrow.**





17-1/4" x 20-1/4"
430mm x 500mm

*** If legend has two lines, go to next size larger arrow.**

Arrow Sizes		
Primary & Secondary Signing		
* Upper-Case 4" (100mm)	6" x 9"	150mm x 228mm
* Upper-Case 6" (150mm)	8.44" x 9.56"	215mm x 243mm
* Upper-Case 8" (200mm)	11-1/4" x 12"	285mm x 300mm
Upper-Case 8" 2 line (200mm)	14-1/4" x 17-1/4"	285mm x 300mm
D3 w/Arrow (Ground Mount)	6" x 4"	150mm x 100mm
D3 w/Arrow (Overhead)	6" x 9"	150mm x 228mm
	ARROW	FRAME
19.13 x 19.13 @ 45^	15-1/8" x 24-1/4"	19.13 x 19.13
485mm x 485mm @ 45^	385mm x 615mm	485mm x 485mm
23" x 23" @ 45^	18-1/4" x 29-1/4"	23" x 23"
575mm x 575mm @ 45^	465mm x 740mm	575mm x 575mm

Maximum width of shear available to cut stock at MDT Sign Shop is **4"-0" (1.22m).**

8" (200mm) Legend = 11-1/4" (280mm) x 12" (300mm) Arrow [Cell AR.8]

Ground Mounted Guide Signs 8" (200mm) = **(Upper-Case)**
Overhead Guide Signs 10"/8" (250mm/200mm) = **(Upper & Lower-Case)**
Use "D" / "C" Font to bring sign to 4' (1.2m) to 1 post Only.

All series **"B"** legend can reduce spacing up to 30%.

D3's Ground Mounted & OverHead

D3 Margins: 2"-3" (prefer 3")
Use "l" for . or -

Over
6' x 4'
72" x 48"
1,800mm x 1,200mm
is ALUM INCR

Guide Sign Material Stock Sizes (Stocked by MDT Sign Shop	
Aluminum	
2'-0" x 12'-0"	0.61m x 3.66m
2'-6" x 12'-0"	0.76m x 3.66m
3'-0" x 12'-0"	0.91m x 3.66m
4'-0" x 12'-0"	1.22m x 3.66m
Plywood	
4'-0" x 8'-0"	1.22m x 2.44m
4'-0" x 10'-0"	1.22m x 3.05m
4'-0" x 12'-0"	1.22m x 3.66m
5'-0" x 10'-0"	1.52m x 3.05m

Note: *Maximum width of shear available to cut stock at MDT Sign Shop is 4'-0" (1.22m).*

Decimal	***Inch***	***MilMet***
0.25"	**1/4**	*6.25*
0.375"	**3/8"**	*9.5mm*
0.438"	**7/16"**	*11.125mm*
0.5"	**1/2**	*12.5*
0.75"	**3/4**	*18.75*
	1"	*25*
	2	*50*
	3	*75*
	4	*100*
	5	*125*

Inches	Millimeters
6	150
7	175
8	200
9	225
10	250
11	275
12	300
18	450
24	600
30	750
36	900
48	1200

G SERIES

G1

NORTH 36" Shield * 15"/12"

20"/15" — *1-100* — Major Interchange 18"/12" Minor-Intermediate 15"/10"

2 MILES

"INTERSTATE"

NORTH 36" Shield * 15"/12"

20"/15" — *100-200* — Major Interchange 18"/12" Minor-Intermediate 15"/10"

2 MILES

G2

NORTH 36" Shield * 15"/12"

16"/12" — *1-100* — Major Interchange 18"/12" Minor-Intermediate 15"/10"

1 MILE

2 Destinations

NORTH 36" Shield * 15"/12"

16"/12" — *100-200*

16"/12"

1 MILE — Major Interchange 18"/12" Minor-Intermediate 15"/10"

G3

16"/12" — *1-100* — Major Interchange 18"/12" Minor-Intermediate 15"/10"

1 MILE

2 Destinations

16"/12"

16"/12" — *100-200*

1 MILE — Major Interchange 18"/12" Minor-Intermediate 15"/10"

G4

NORTH 36" Shield * 15"/12"

16"/12" — *1-100*

 20.4"x20.4" (25"x21-⅞")

2 Destinations

NORTH 36" Shield * 15"/12"

16"/12" — *100-200*

16"/12"

 20.4"x20.4" (25"x21-⅞")

G5

16"/12" — *1-100*

 20.4"x20.4" (25"x21-⅞")

2 Destinations

16"/12"

16"/12" — *100-200*

 20.4"x20.4" (25"x21-⅞")

INTERSTATE SYMBOLS
36" Shield Minor-Intermediate
40" Shield Major

PRIMARY-SECONDARY SYMBOLS
24" Shield

G6

13.3"/10" — *1-100*

1/2 MILE — 12" / 8"

2 Destinations

13.3"/10"

13.3"/10" — *100-200*

1/2 MILE — 12" / 8"

G7

13.3"/10" — *1-100*

NEXT RIGHT — 10"

2 Destinations

13.3"/10"

13.3"/10" — *100-200*

EXIT ## — 10" / 15"

G8

Single Line

8"/6"  *1-250* — 45° (10.25"x10.25") Arrows 12"x11-¼"

8"/6" XX  *250-300*

G9

2 Line

8"/6"  *1-200* — 45° (10.25"x10.25")

8"/6"  Arrows 12"x11-¼"

G10

2 Line

Arrows 12"x11-¼"
UP 18-¼"x11-¼"
45° (10.25"x10.25")

8"/6" 

8"/6" — *1-100*

3 Line

Arrows 12"x11-¼"
UP 18-¼"x11-¼"

8"/6" 

8"/6" — *100-200*

8"/6"  Arrows 12"x11-¼"
45° (10.25"x10.25")

G11

2 Line

8"/6" XX — *1-200* — XX=Miles

8"/6" XX — 8" — XX=Miles

3 Line

8"/6" XX — 8" — XX=Miles

8"/6" XX — *200-400* — XX=Miles

8"/6" XX — 8" — XX=Miles

G12

OVERHEAD (most) — *1-100 / 150-200*

DIAGRAMATIC (all) — *100-150*

13.3"/10" — *200-300*

SHEILD 24", 36", 40"
ARROW 25"x21-7/8"
DWN ARROW 30"x20-5/8"
1-2 Lines 16" / 12" "E","Em" Font
3+ Lines 13.33" "Em" Font
DIRECTIONAL 15" / 12"
 # MILES 15" / 10"
ACTION 10"

G SERIES (continued)

G13 — ALL GUIDE SIGNS THAT DON'T MATCH
"Frontage Rd"
"Continental Divide",etc.
Fonts Vary Sign Type
Dble End Arrow 37"x11.25"
Shields 18", 24"
EXIT # 10" / 15"
Directional 12" \ 10"
Arrows 14.25"x17.25"
Variabel Fonts
13.33" / 10" Em
10.7" Em
10" Em
ULC 8" / 6" Em
UC 8" Em
4" D

G14 — ALL 8" U.C.
1,2 or 3 Lines

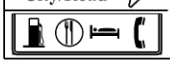
G15 — ALL 13.3"/10" MILAGE SIGNS
Conflicts w/E-series, Follow E-series

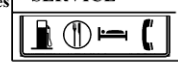
G20 — CONSTRUCTION INFORMATION

G30 — BROWN & WHITE RECREATIONAL
1,2 or 3 Lines
Variable Fonts
13.33" / 10" Em
10.7" Em
10" Em
ULC 8" / 6" Em
UC 8" Em
4" D

GS8 — 1 Lines
City/Road ⇨

Green/Blue Background
24"x24" Panels
20" Symbol
or "NO SERVICES" 8"
ULC 8" / 6" Em
UC 8" Em
Arrow 11.25"x12"

GS9 — 2 Lines
⇦ City/Road
City/Road ⇨

Green/Blue Background
24"x24" Panels
20" Symbol
or "NO SERVICES" 8"
ULC 8" / 6" Em
UC 8" Em
Arrow 11.25"x12"

GS10 — 2 or 3 Lines
City/Road
SERVICE ⇨

Green/Blue Background
24"x24" Panels
20" Symbol
or "NO SERVICES" 8"
ULC 8" / 6" Em
UC 8" Em
Arrow 11.25"x12"

INTERSTATE SYMBOLS
36" Shield Minor-Intermediate
40" Shield Major

PRIMARY-SECONDARY SYMBOLS
24" Shield

E SERIES

E7
METRA
EXIT ###

E8

"City" Exits		*13.33" / 10"*	Sequence Signing
EXIT #1	XX	*13.33" / 10"*	XX=Miles
EXIT #2	XX	*13.33" / 10"*	XX=Miles
EXIT #3	XX	*13.33" / 10"*	XX=Miles

E9

City	13.33" / 10"
NEXT 2 EXITS	10"

E10 — 2 or 3 Lines

EXIT #1	XX	*13.33" / 10"*	Sequence Signing
EXIT #2	XX	*13.33" / 10"*	
EXIT #3	XX	*13.33" / 10"*	

E11 — Misc. EXIT *13.33" / 10"*
Action 12"
Arrow 20-1/4"x17-1/2"
Dwn Arrow 32"x22"

IS SERIES

IS

F-P	12"	REST AREA
G-L	12"	NEXT RIGHT

Location Name for
Rest Area, Pullout, Recreation (lakes-battlefields-etc), Scenic Sites, etc.

F = Food
P = Phone
G = Gas
L = Lodging
H = Hospital
C = Camping

IS1

F-P	12"	REST AREA
G-L	12"	NEXT RIGHT
		Arrow 16"x12"
		Arrow 23"x23" (29-¼"x18-¼")

IS2

F-P		12"
G-L	P-G	12"

IS3

REST AREA	12"
X MILES	15" / 10"

IS4

REST AREA	12"
NEXT RIGHT	12"

IS5

REST	12"
	Arrow 23"x23" (29-¼"x18-¼")
AREA	12"

IS6

NEXT "SERVICES"	8"	"REST AREA","INFORMATION" "AMBULANCE","NO SERVICES" "HOSPITAL", etc.	NEXT REST AREA	8"
# MILES	10" / 8"		# MILES	10" / 8"

IS7

F-P	12"
G-L	12"
H	12"
C	12"
NEXT RIGHT	12"

IS7-10

F-P	12"
G-L	12"
H	12"
NEXT RIGHT	12"

IS8
1 or 2 Lines

SERVICES

10" Major Intersection
8" Minor, Intermediate Intersection
Arrow 11.25"x12"

NEXT SERVICES
"REST AREA","INFORMATION"
"AMBULANCE","NO SERVICES"
"HOSPITAL", etc.

IS9

SERVICES	10"	"REST AREA","INFORMATION" "AMBULANCE","NO SERVICES" "HOSPITAL", etc.	SERVICES	10"	HOSPITAL	10"
EXIT ##	10" / 15"		## MILES	15" / 10"	SECOND EXIT	10"

****10"="HOSPITAL"-"SECOND EXIT"*

IS10

CHAIN REMOVAL	8"
## MILES	12" / 8"
	Arrow 17.25"x14.25"

IS11

CHAIN UP <*> REMOVAL	8"
## MILES	12" / 8"
	Arrow 17.25"x14.25"
MISC. "CHAINS REQUIRED" "FOR ALL UNITS"	

IS12

CHAIN UP	8"
## MILES	12" / 8"
	Arrow 17.25"x14.25"

IS SERIES (continued)

IS13

"Em" FONT

Info	12"	SCENIC OVERLOOK
Info	12"	PARKING
## MILES	15" / 10"	

IS14

"D"-"Em" FONT

Info	12"	PARKING AREA NEXT RIGHT

IS15

"D"-"C" FONT

Info	12"	SCENIC OVERLOOK
Info	12"	INFORMATION PARKING AREA
↗	Arrow 23"x23" (29-¼"x18-¼")	

IS16

"Em" FONT

VISITOR	10"	
INFO	10"	
EXIT ##	10" / 15"	
# MILES	12" / 8"	
↗	Arrow 23"x23" (29-¼"x18-¼")	

IS21

"Em" FONT

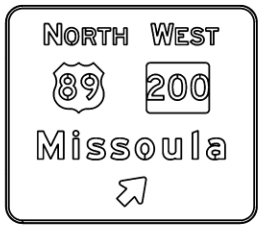
⛽ 🍴 🚌	26"	SYMBOLS
INFO	10"	NEXT RIGHT

IS22

"Em" FONT

⛽ 🍴 🚌 ⇨	26"	SYMBOLS
	Arrow 12"x11-1/4" [Minor-Intermediate]	
	Arrow 23"x23" (29-¼"x18-¼") [Major]	
⛽ 🍴 🚌	26"	SYMBOLS
# MILES ⇨	10" / 8"	
	Arrow 12"x11-1/4" [Minor-Intermediate]	
	Arrow 23"x23" (29-¼"x18-¼") [Major]	

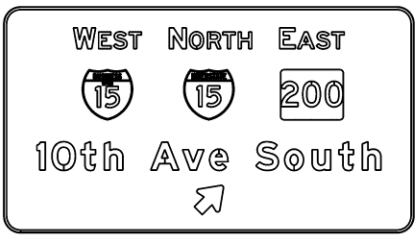
G1 Series

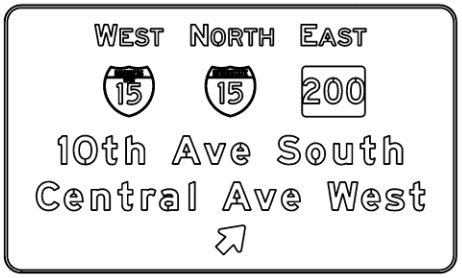




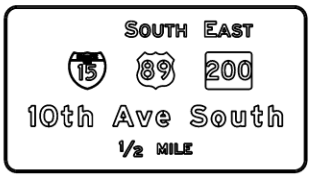


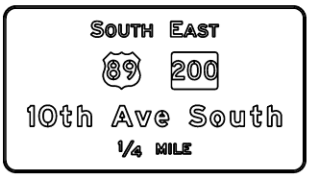
G1 Major Interchange.
Shield: 36",
Direction: 15"/12",
Place Name: 20"/15",
Major Interchange Units: 18", 12".
Minor Interchange Units: 15", 10".
Arrow: 21.875"x25"





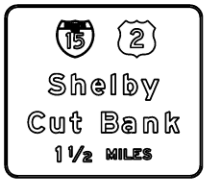
Minor-Intermediate Interchange



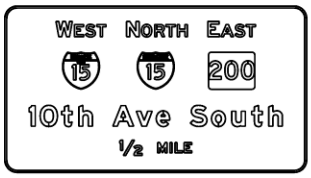






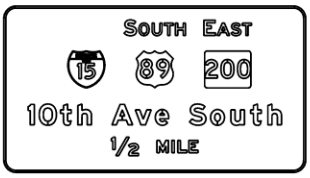


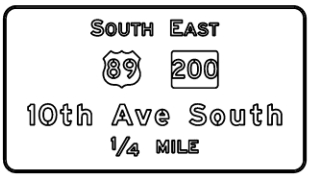




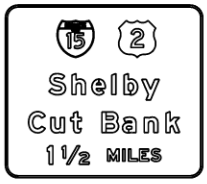
G1 Minor & Intermediate Interchange.
Shield: 36",
Direction: 15"/12",
Place Name: 20"/15",
Minor Interchange Units: 15", 10".
Arrow: 21.875"x25"

Major Interchange

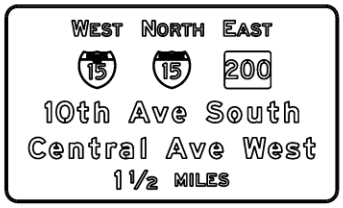


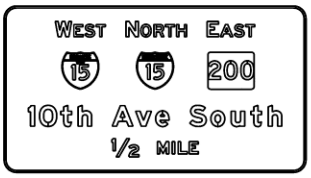








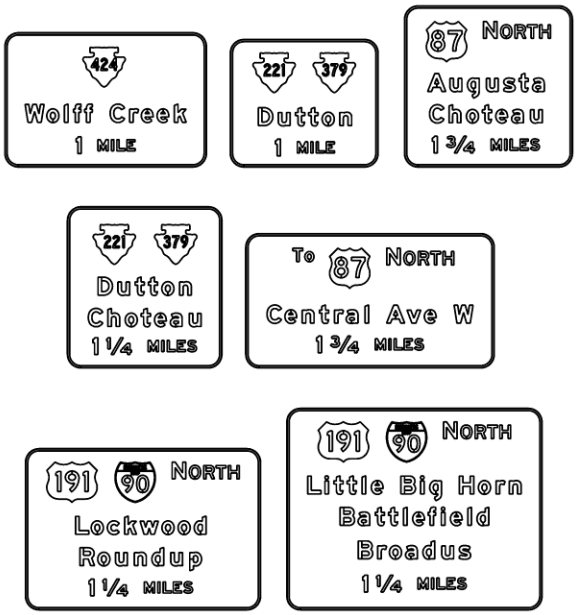




G1 Major Interchange.
Shield: 36",
Direction: 15"/12",
Place Name: 20"/15",
Major Interchange Units: 18", 12".
Arrow: 21.875"x25"

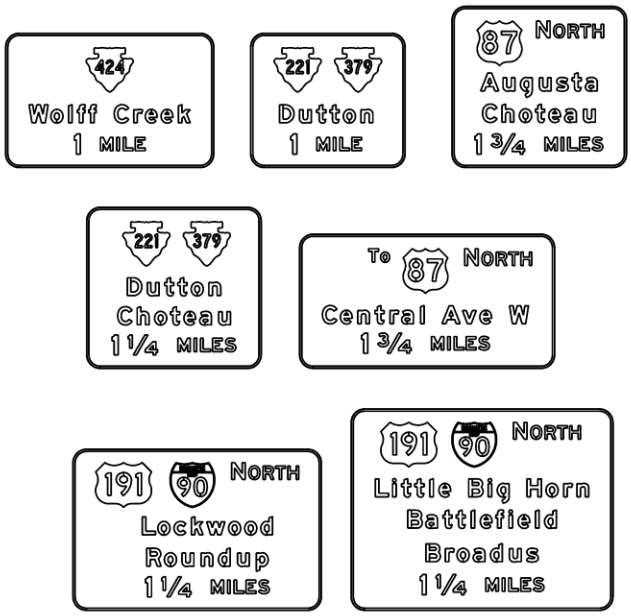
G2 Series

Minor-Intermediate Interchange



G2 Minor & Intermediate Interchange.
Shield: 40",
Direction: 15"/12",
Place Name: 20"/15",
Units: 15", 10".

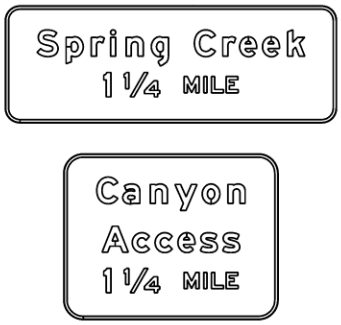
Major Interchange



G2 Major Interchange.
Shield: 40",
Direction: 15"/12",
Place Name: 20"/15",
Units: 18", 12".

G3 Series

Minor-Intermediate Interchange



G3 Minor & Intermediate Interchange.
Place Name: 16"/12",
Units: 15", 10".

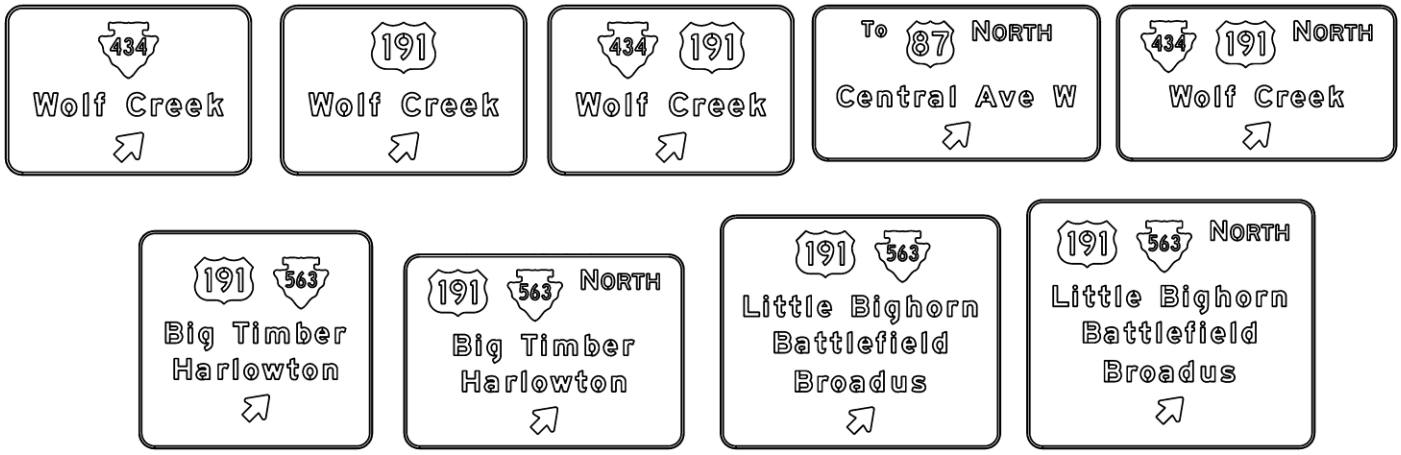
Major Interchange



G3 Major Interchange.
Place Name: 16"/12",
Units: 18", 12".

G4 Series

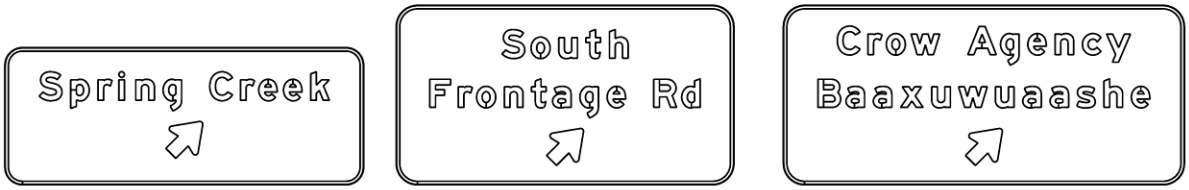
Minor-Intermediate-Major Interchange



G4 Interchange.
Place Name: 16"/12",
Shield: 36",
Directional: 15"/12",
Arrow: 25"x21.875"

G5 Series

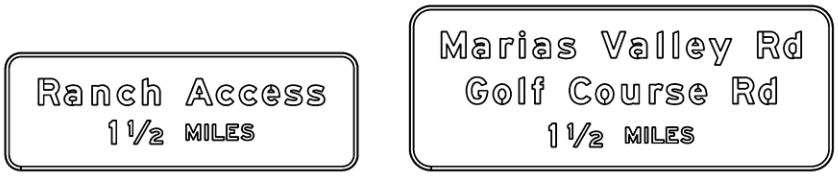
Minor-Intermediate-Major Interchange



G5 Interchange.
Place Name: 16"/12",
Arrow: 25"x21.875"

G6 Series

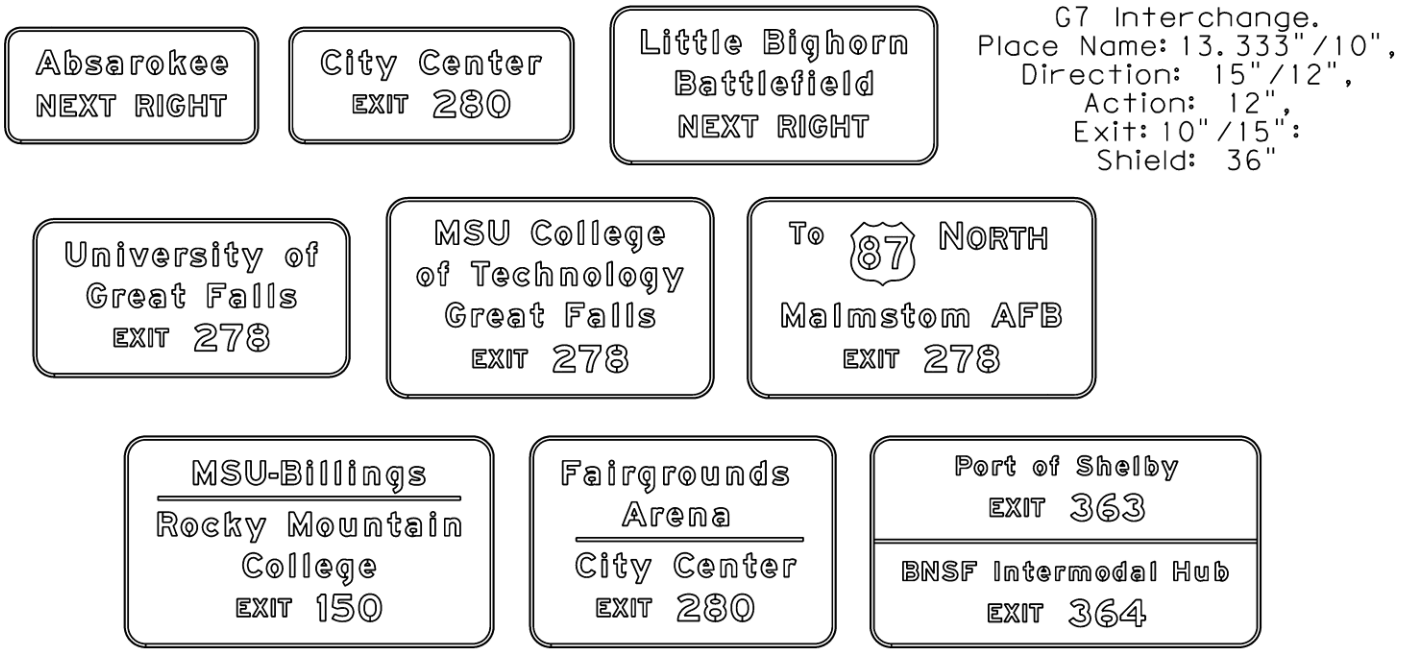
Minor-Intermediate-Major Interchange



G6 Interchange.
Place Name: 13.33"/10",
Distance: 12"/8"

G7 Series

Minor-Intermediate-Major Interchange



G7 Interchange.
Place Name: 13.333"/10",
Direction: 15"/12",
Action: 12",
Exit: 10"/15":
Shield: 36"

G8 Series

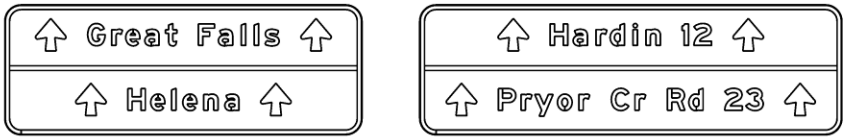
Minor-Intermediate-Major Interchange



G8 Interchange
Place Name: 8"
Arrow: 11.25"x12"

G9 Series

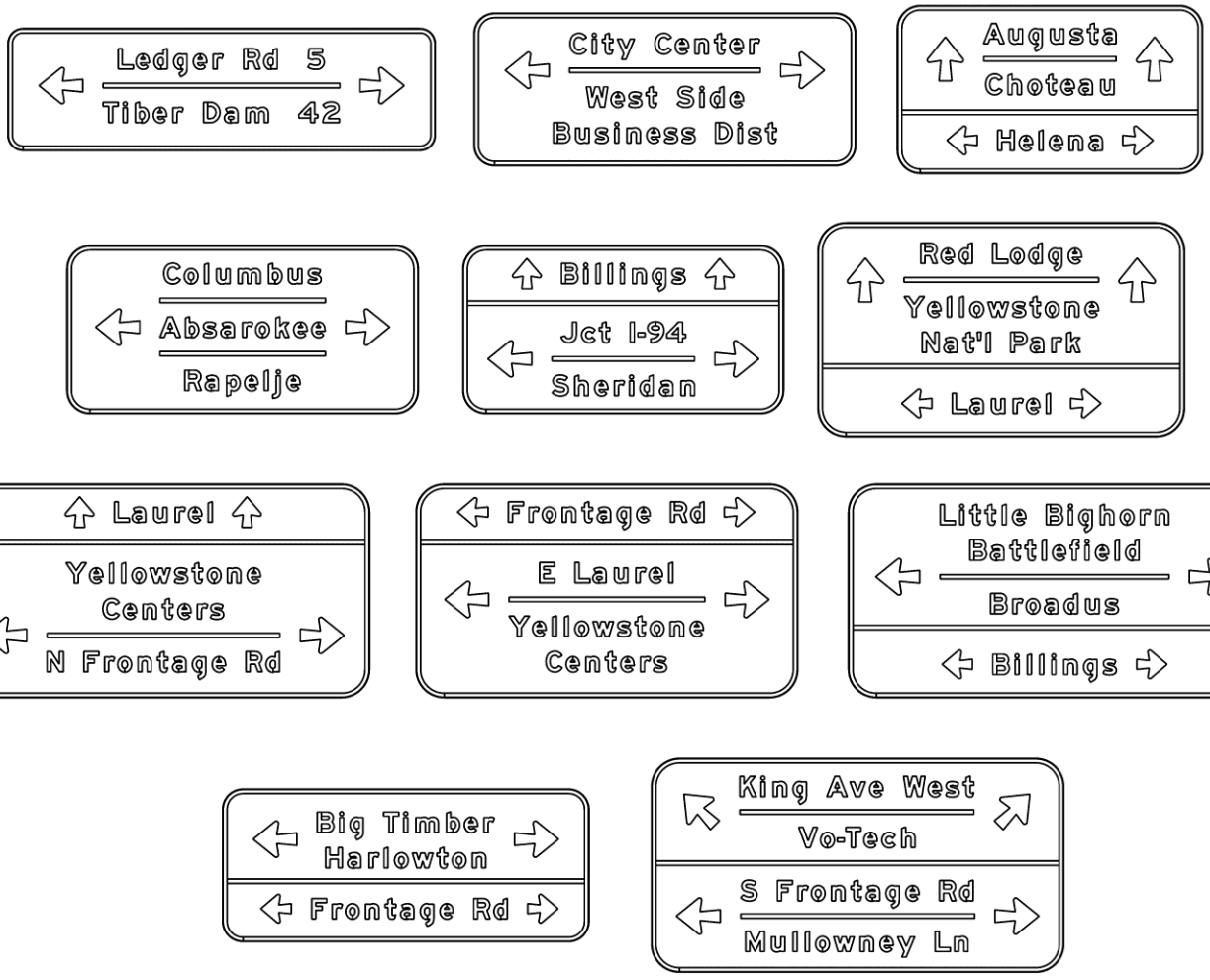
Minor-Intermediate-Major Interchange



G8 Interchange
Place Name: 8"
Arrow: 11.25"x12"
Divided Panel

G10 Series

Minor-Intermediate-Major Interchange



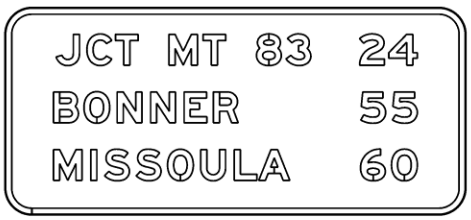
G10 Interchange
2 Places: 8" Em
Single Place Arrow: 11.25"x12"
2+ Place Arrow: 25"x21.875"
(Divided Panel)

G11 Series

Minor-Intermediate Interchange







Major Interchange









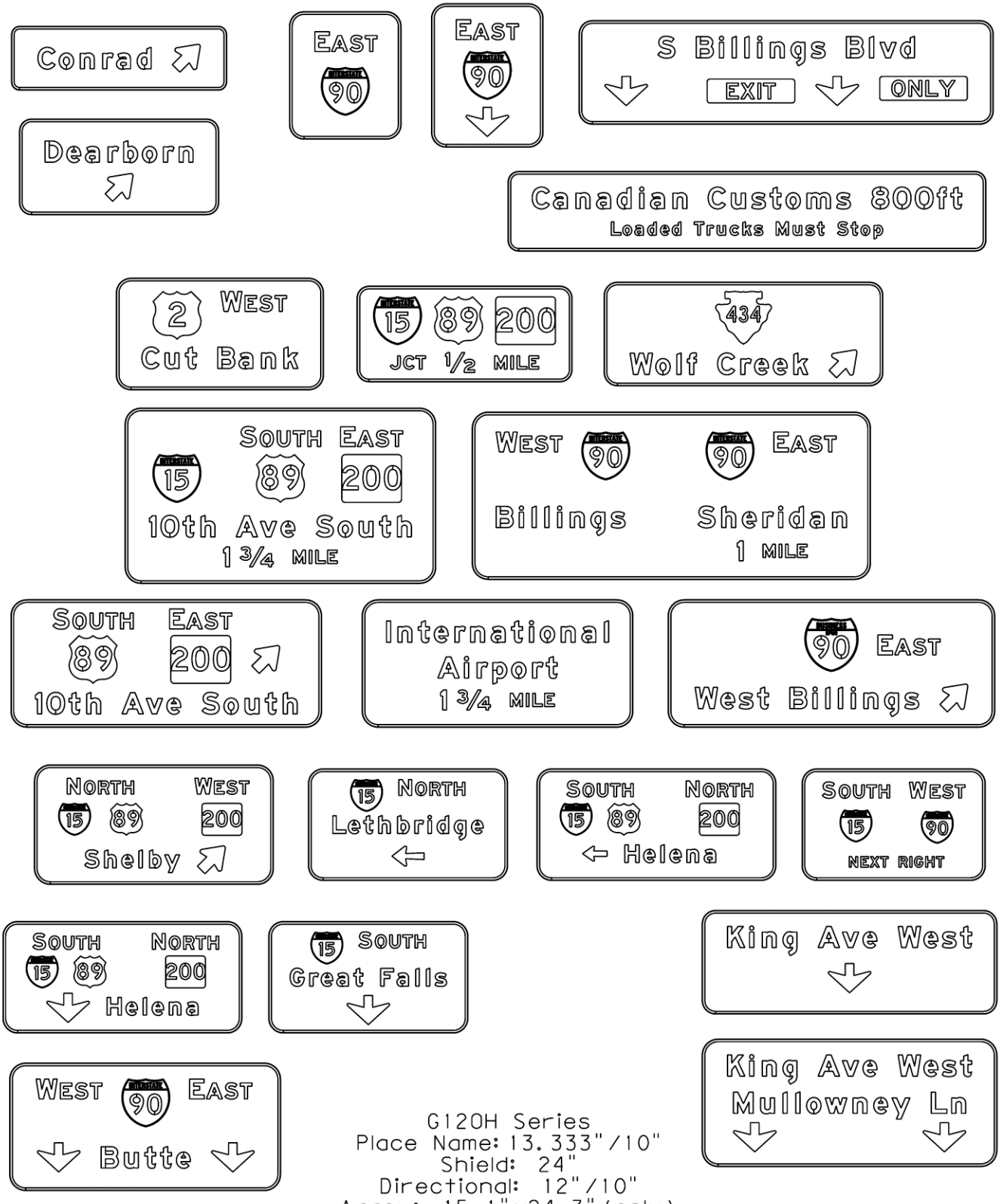
G11 Series.
Places & Distance: 8" Em

G12 Series



G12 Series
Place Name: 16"/12"
Shield: 36"
Directional: 15"/12"
Arrow: 25"x21.875"
Dwn Arrow: 32"x22"

G12OH Series



G12OH Series
Place Name: 13.333"/10"
Shield: 24"
Directional: 12"/10"
Arrow: 15.1"x24.3" (only)
Arrow: 25"x21.875" (Angled)
Arrow: 11.25"x18.5" (Lt-Rt w/Place)
Dwn Arrow: 32"x22"

G13 Series

Minor-Intermediate Interchange











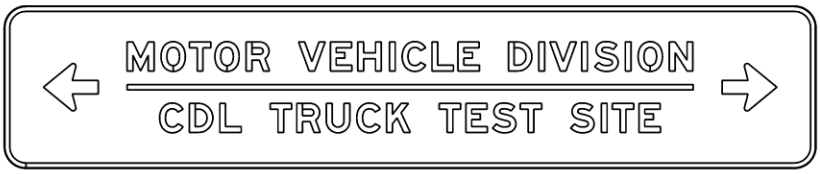






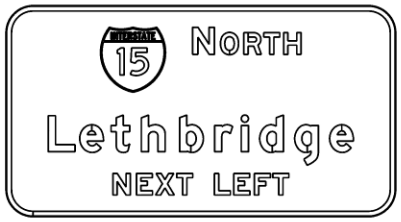


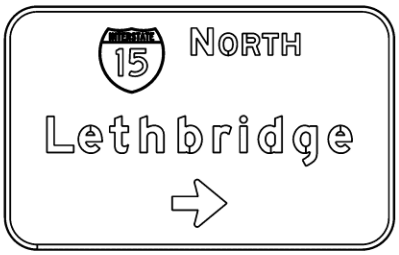


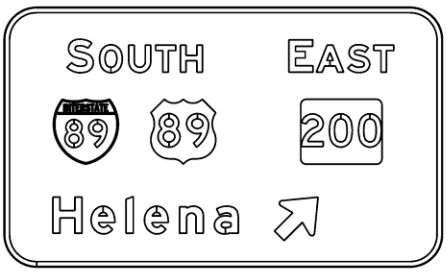


G13 Series Min-Inter
Place Name: 16.3"/10"
Shield: 24"
Directional: 12"/10" & 10"/8"
Arrow: 17.5"x20.25" (Place Name)
Arrow: 12.0"x11.25" (Lt. or Rt.)
Arrow: 11.25"x37.0" (Lt-Rt under/Place)

Major Interchange

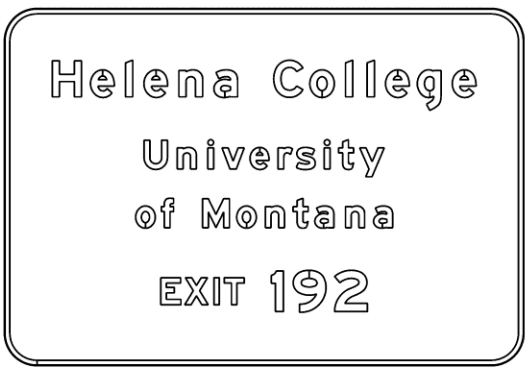












G14 Series





G14 Series
Place Name: 8" ALL CAPS
Action Name: 4" ALL CAPS
Symbols: 16"





G15 Series

G15 Series Milage Signs
All 13.33"/10" Milage Signs
Place Name: 13.33" Em
Action Name: 10" Em
Symbols: 24"

G20 Series

G20 Series Construction Information
Construction Information
Place Name: 13.33" Em
Action Name: 10" Em
Symbols: 24"

G30 Series

Minor-Intermediate Interchange

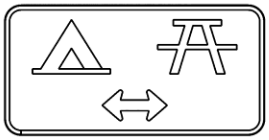






















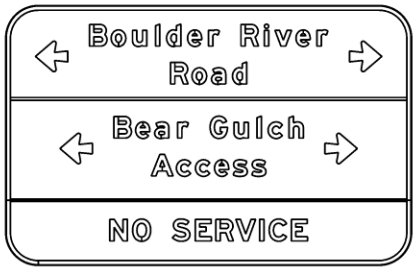












G30 Series Min-Inter
Brown & White Recreational
Place Name: 8"/6" Em
Action Name: 10" Em
Panels: 24"
Symbols: 20"

G30 Series

Major Interchange

Recreational Rd

Recreation Rd
NEXT RIGHT

Recreation Rd
Holter Lake
NEXT RIGHT

Historical
Museum
NEXT RIGHT

Big Hole
Battlefield
Nat'l Monument
NEXT RIGHT



Butte
Hisotoric
District

Visitor Information and
Transportation Center

EXIT 126

G30 Series Maj
Brown & White Recreational
Place Name: 13.33" Em
Action Name: 10" Em
Symbols: 24"

E Series

Minor-Intermediate Interchange



Major Interchange



OH Minor-Intermediate-Major Interchange



EG Series

Minor-Intermediate Interchange



Major Interchange



E7 Series

E7 Min-Inter-Maj
Metra - Exit #

E8 Series

Great Falls Exits	
10th Ave South	1
Central Ave W	2½

Great Falls Exits	
NW Bypass	2
Central Ave W	4
10th Ave South	6

Butte Exits	
City Center	2½
Montana St	3¼
Harrison Ave	4¾

E8 Min-Inter-Maj
Sequence Signing
"City" EXITS 13.33"/10"

E9 Series

Dillon
NEXT 2 EXITS

E10 Series

E11 Series

EXIT ↓ ONLY

↗ EXIT ONLY ↗

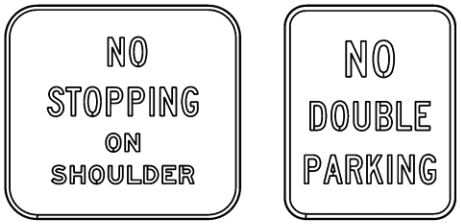
D1 Series



D4 Series



OH R99 Series



OH IS3 Series



IS Series

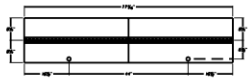


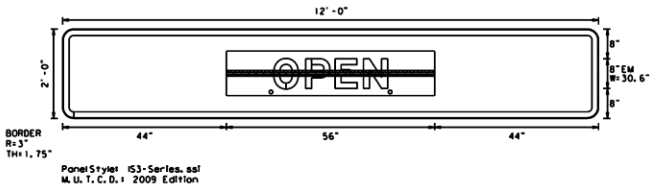
IS2 Series

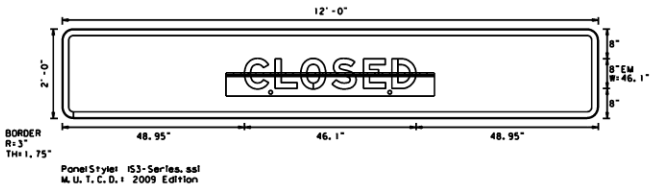
IS3 Series











IS4 Series



IS5 Series





IS6 Series



IS7 Series

IS8 Series





IS9 Series

IS10 Series

IS11 Series

IS12 Series

IS13 Series



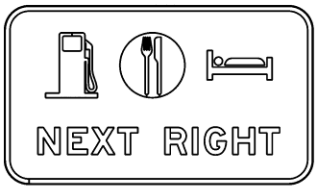
IS14 Series

IS15 Series

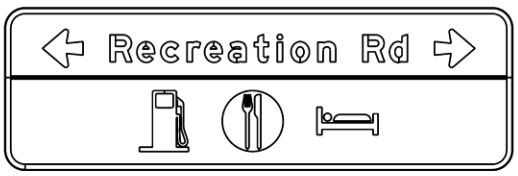


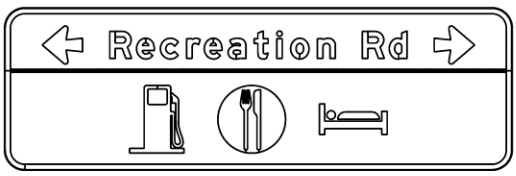
IS16 Series

IS21 Series



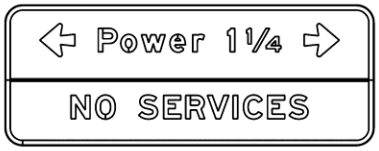
IS22 Series





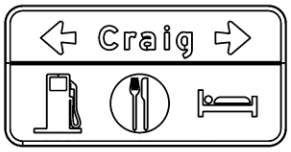
GS8 Series







Guide Sign 8 Series
8"/6" Name, 6" Action
Panels-24" Symbols 20"
Arrows 12"x11.25"
Green/Blue Panel.
1 Line City/Rd 8"/6".

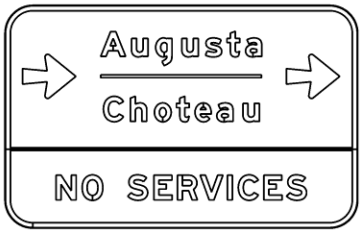


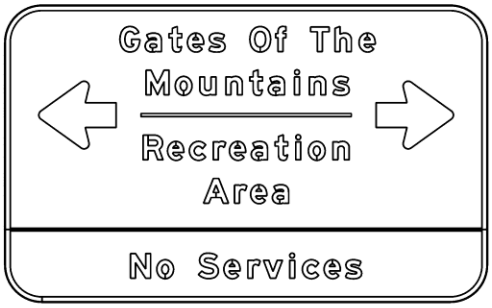
GS9 Series

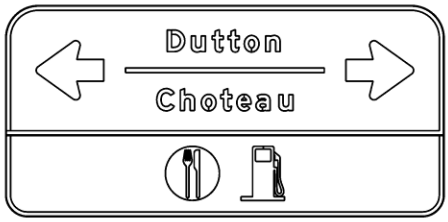


Guide Sign GS9 Series:
2 Lines City/Rd 8"/6", 6" Action,
24" Panels-20" Symbols
Arrows 12"x11.25"
Green/Blue Panel.

GS10 Series





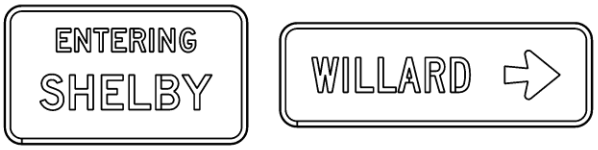


GS10 Series
Place Name: 8"/10"
Arrow: 25"x21.875"
Dwn Arrow: 32"x22"
Shield Panel: 24" - Symbol: 20"

N6-1 Series

City Name & City Limit Signing

Minor-Intermediate Interchange



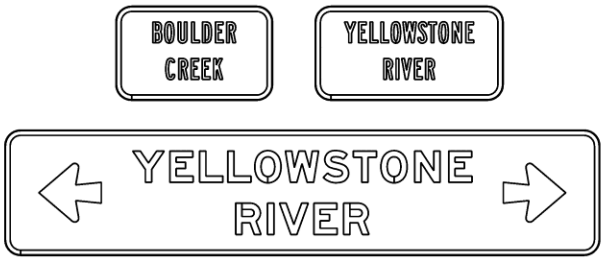
Major Interchange



N6-2 Series

Creek & River Signing

Minor-Intermediate Interchange



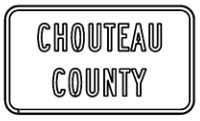
Major Interchange



N6-3 Series

County Signing

Minor-Intermediate Interchange



Major Interchange



N7 Series

Adopt A Highway Program



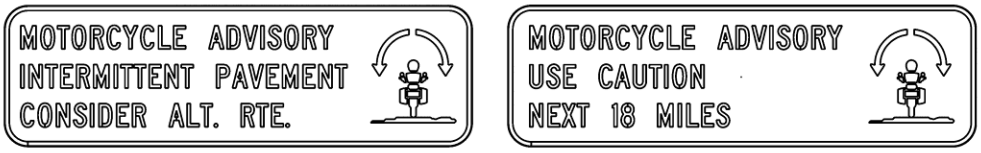
M Series

Montana Highway



WMA Series

Warning Motorcycle Advance



W16 Series

Advance Street Name





Yellow
Black
"D" 2 liner
"B" 1 liner

D12 Series

Tune Radop To...





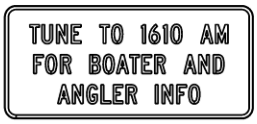






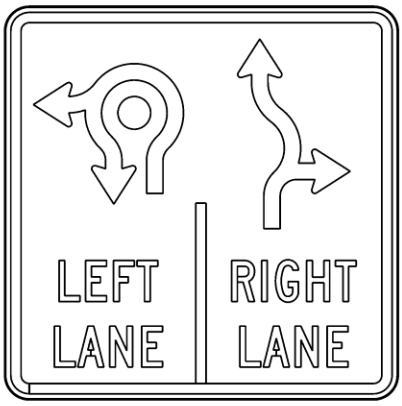


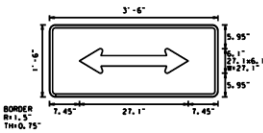




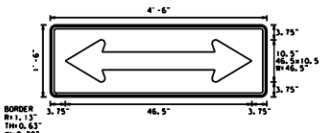
REGULATORY



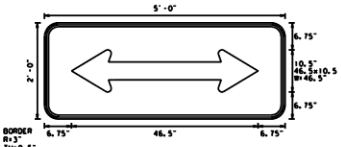




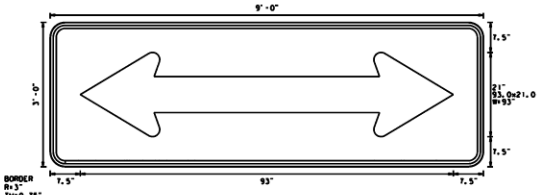
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M.U.T.C.D.: 2009 Edition



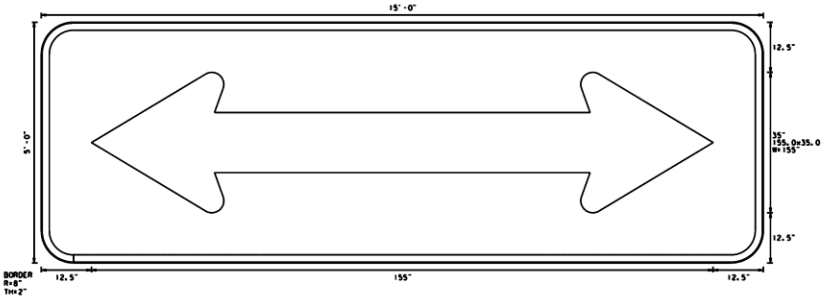
PanelStyle: regulatory.sst
M.U.T.C.D.: 2009 Edition



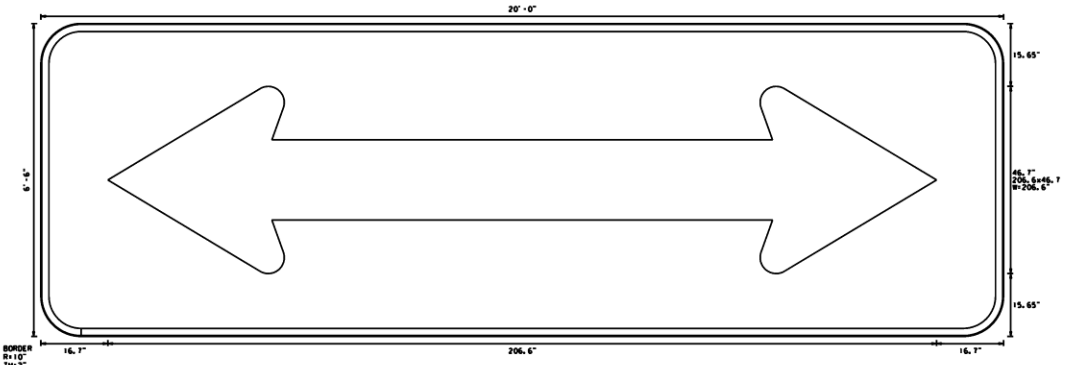
PanelStyle: regulatory_con_HOV_Ground.sst
M.U.T.C.D.: 2009 Edition



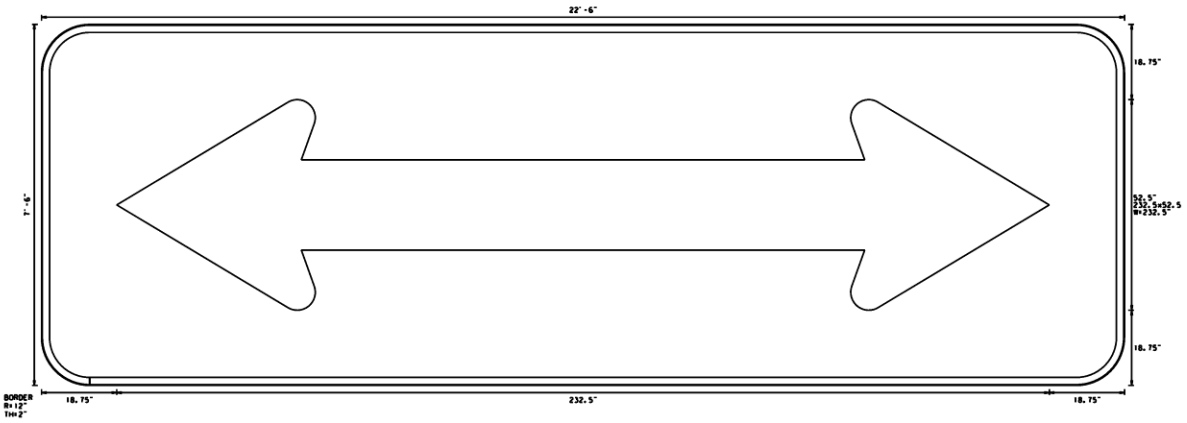
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M.U.T.C.D.: 2009 Edition



PanelStyle: regulatory_exa_HOV.sst
M.U.T.C.D.: 2009 Edition

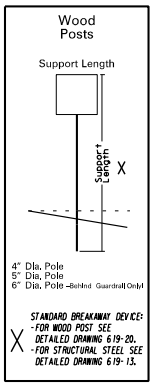


PanelStyle: guide_fwy_minor.sst
M.U.T.C.D.: 2009 Edition



PanelStyle: regulatory_fwy_HOV.sst
M.U.T.C.D.: 2009 Edition

WOOD POSTS

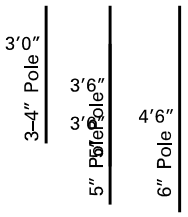


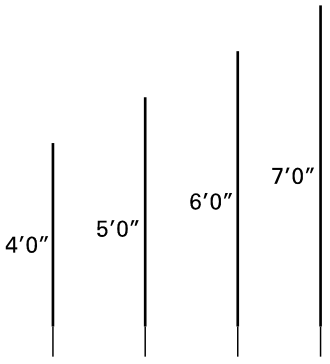
4" Pole – 3' Embedment

5" Pole – 3'-6" Embedment
X Standard Breakaway Device

6" Pole (Not Crash Tested) – 4'-6" Embedment
X ONLY Behind Protective Barier
X Beyond Clear Zone

Foundations





Major
Mounting Heights

PIPE

2" & 2-1/2" Pipe – Use Square Tubular Posts
■ Frangible Breakaway
X Behind Guardrail–Standard Breakaway
3' Embedment Back Bracing on Standard Warning Signs

3" Pipe – 3' Embedment Back Bracing on Standard Warning Signs
■ Frangible Breakaway
X Behind Guardrail–Standard Breakaway
Cant' Use Pipe In Multi-Post Installation

3-1/2" Pipe – 3' Embedment Back Bracing on Standard Warning Signs
■ Frangible Breakaway
X Behind Guardrail–Standard Breakaway
Cant' Use Pipe In Multi-Post Installation

4" Pipe – 3' Embedment Back Bracing on Standard Warning Signs
■ Frangible Breakaway
X Behind Guardrail–Standard Breakaway
Cant' Use Pipe In Multi-Post Installation

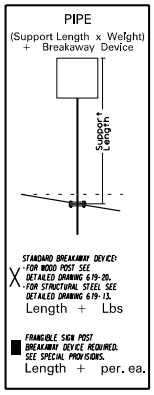
3" Pipe
**' x 7.58 lbs./ft. = ** lbs.
Total *** lbs. 3" Pipe

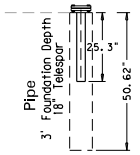
3½" Pipe
**' x 9.11 lbs./ft. = ** lbs.
Total *** lbs. 3" Pipe

4" Pipe
**' x 10.79 lbs./ft. = ** lbs.
Total *** lbs. 4" Pipe

ROUND PIPE SUPPORT	
TUBE SIZE	WEIGHT
3"	7.58 lbs/ft
3½"	9.11 lbs/ft
4"	10.79 lbs/ft

For estimating purposes only.





5" Pipe – 4' Embedment Back Bracing on Standard Warning Signs
X Standard Breakaway
Cant' Use Pipe In Multi-Post Installation
5" Pipe 14.62 lbs/ft.
5" MDT Standard Breakaway Device 61.51 lbs.

6" Pipe – 5' Embedment Back Bracing on Standard Warning Signs
X Standard Breakaway
Cant' Use Pipe In Multi-Post Installation
6" Pipe 18.97 lbs/ft.
6" MDT Standard Breakaway Device 81.54 lbs.

5" Pipe
**' x 14.62 lbs./ft. = ** lbs.
+ 61.51 lb. Stub
Total *** lbs. 5" Pipe

6" Pipe
**' x 18.97 lbs./ft. = ** lbs.
+ 81.54 lb. Stub
Total *** lbs. 6" Pipe

ROUND PIPE SUPPORT			
	TUBE SIZE	WEIGHT	Brkaway & Stub
3"	75mm	11.28 (km/m)	12.71 (kg)
4"	100mm	16.06 (km/m)	17.44 (kg)
5"	125mm	21.76 (km/m)	27.90 (kg)
6"	150mm	28.23 (km/m)	36.99 (kg)

For estimating purposes only.

ROUND PIPE SUPPORT	
TUBE SIZE	WEIGHT
5"	14.62 lbs/ft
6"	18.97 lbs/ft

For estimating purposes only.

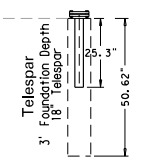
Pipe Dia.	Lb/Ft	BrkAway & Stub
5"	14.62	61.51
6"	18.97	81.54

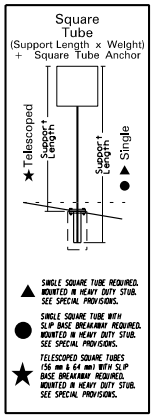
SQUARE TUBING - TELESPAR

2" Single – 18" Telespar-3' Foundation
▲ w/Heavy Duty Stub

2-1/2" Single – 18" Telespar-3' Foundation
▲ Single Post w/Heavy Duty Stub
● Dble Post w/Slip Base Breakaway – Small Guide
Add 3" Slip Base Breakaway to Summary Sheet
For Double Posts

2-1/4"&2-1/2" Telescoped – 18" Telespar-3' Foundation
★ w/Slip Base Breakaway
Add 3" Slip Base Breakaway to Summary Sheet





2" Sq. Tube
**' x 2.42 lbs./ft. = **
+ 18.36 Anchor = **
Total *** lbs. Sq. Tube

2 1/2" Sq. Tube
**' x 3.14 lbs./ft. = **
+ 22.98 Anchor = **
Total *** lbs. Sq. Tube

2¼"&2½" Sq. Tube
**' x 2.77 lbs./ft. = **
**' x 3.14 lbs./ft. = **
+ 22.98 Anchor = **
Total *** lbs. Sq. Tube

SQUARE TUBE SUPPORT	
TUBE SIZE	WEIGHT
2"	2.42 lbs/ft
2¼"	2.77 lbs/ft
2½"	3.14 lbs/ft
SQUARE TUBE ANCHOR	
TUBE SIZE	WEIGHT
2½"	18.36 lbs ea.
3"	22.98 lbs ea.

For estimating purposes only.

SQUARE TUBE SUPPORT		
TUBE SIZE	WEIGHT	WALL THICKNESS
2"	2.42 lbs/ft	0.105" (12 GAUGE)
2¼"	2.77 lbs/ft	0.105" (12 GAUGE)
2½"	3.14 lbs/ft	0.105" (12 GAUGE)
SQUARE TUBE ANCHOR		
TUBE SIZE	WEIGHT	WALL THICKNESS
2½"	18.36 lbs ea.	0.135"
3"	22.98 lbs ea.	0.188"

For estimating purposes only.

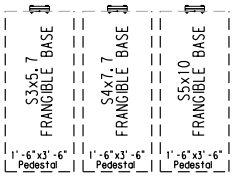
Telespar Calcs
(Sign Height + Mounting Height + Slope Height) = Support Length
(Support Length x Post Weight(s)) + Foundation Weight(s) x #Posts

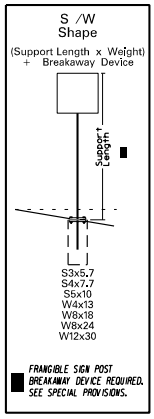
S-SHAPE & W-SHAPE

S3x5.7
■ MultiDirectional Breakaway Device
S3x5.7
**' x 5.7 = **
Total *** Lbs. S3x5.7
BEHIND GUARDRAIL S3x5.7
Breakaway 10.37 lbs.
Stub Post 8.55 lbs.
Fuse Plate 0.64 lbs.
Total 19.56 Lbs./ea.

S4x7.7
■ MultiDirectional Breakaway Device
S4x7.7
**' x 7.7 = **
Total *** Lbs. S4x7.7
BEHIND GUARDRAIL S4x7.7
Breakaway 10.45 lbs.
Stub Post 11.55 lbs.
Fuse Plate 0.64 lbs.
Total 22.64 Lbs./ea.

S5x10
■ MultiDirectional Breakaway Device
S5x10
**' x 10 = **
Total *** Lbs S5x10
BEHIND GUARDRAIL S5x10
Breakaway 19.08 lbs.
Stub Post 15 lbs.
Fuse Plate 0.66 lbs.
Total 34.74 Lbs./ea.





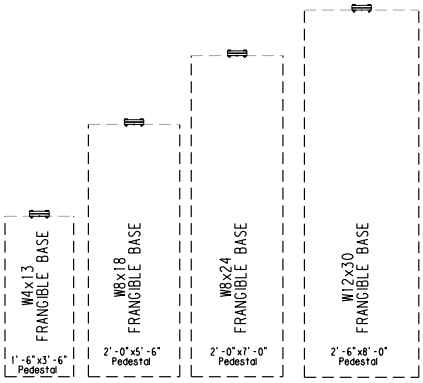
Fuse Plate Not Used Behind Guardrail.

W4x13
■ BreakSafe
W4x13
**' x 13 = **
Total *** W4x13
BEHIND GUARDRAIL W4x13
Breakaway 21.58 lbs.
Stub Post 26 lbs.
Total 49.18 Lbs./ea.
Fuse Plate 1.6 lbs.

W8x24
■ BreakSafe
W8x24
**' x 24 = **
Total *** Lbs W8x24
BEHIND GUARDRAIL W8x24
Breakaway 60.86 lbs.
Stub Post 72 lbs.
Total 137.52 Lbs./ea.
Fuse Plate 4.66 lbs.

W8x18
■ BreakSafe
W8x18
**' x 18 = **
Total *** Lbs. W8x18
BEHIND GUARDRAIL W8x18
Breakaway 37 lbs.
Stub Post 45 lbs.
Total 85.27 Lbs./ea.
Fuse Plate 3.27 lbs.

W12x30
■ BreakSafe
W12x30
**' x 30 = **
Total *** Lbs. W12x30
BEHIND GUARDRAIL W12x30
Breakaway 78.54 lbs.
Stub Post 90 lbs.
Total 173.96 Lbs./ea.
Fuse Plate 5.42 lbs.



PRIMARY–SECONDARY



URBAN



INTERSTATE



70	Posted Speed Limit
55	Posted Warning Limit

Warning Sign Advance Placement

Fill in Project Data

Posted Speed Limit m.p.h.	Posted Warning Limit 0	5	10	15	20	25	30	35	40	45	50	55	60	65	70
20	100	N/A	N/A	-	-	-	-	-	-	-	-	-	-	-	-
25	100	N/A	N/A	N/A	N/A	-	-	-	-	-	-	-	-	-	-
30	100	100	N/A	N/A	N/A	N/A	-	-	-	-	-	-	-	-	-
35	100	100	N/A	N/A	N/A	N/A	N/A	-	-	-	-	-	-	-	-
40	125	112.5	100	100	100	N/A	N/A	N/A	-	-	-	-	-	-	-
45	175	150	125	115	100	100	100	100	N/A	-	-	-	-	-	-
50	250	225	200	190	175	150	125	115	100	N/A	-	-	-	-	-
55	325	300	275	250	225	215	200	175	125	100	N/A	-	-	-	-
60	400	375	350	340	325	300	275	250	200	150	100	100	-	-	-
65	475	462.5	450	425	400	375	350	325	275	250	200	150	100	-	-
70	550	537.5	525	520	500	475	450	425	375	325	275	225	150	100	-
75	650	637.5	625	615	600	575	550	512.5	475	425	375	325	250	175	100
	40'	40'	40'	40'	80'	80'	80'	120'	120'	120'	160'	160'	160'	200'	200'

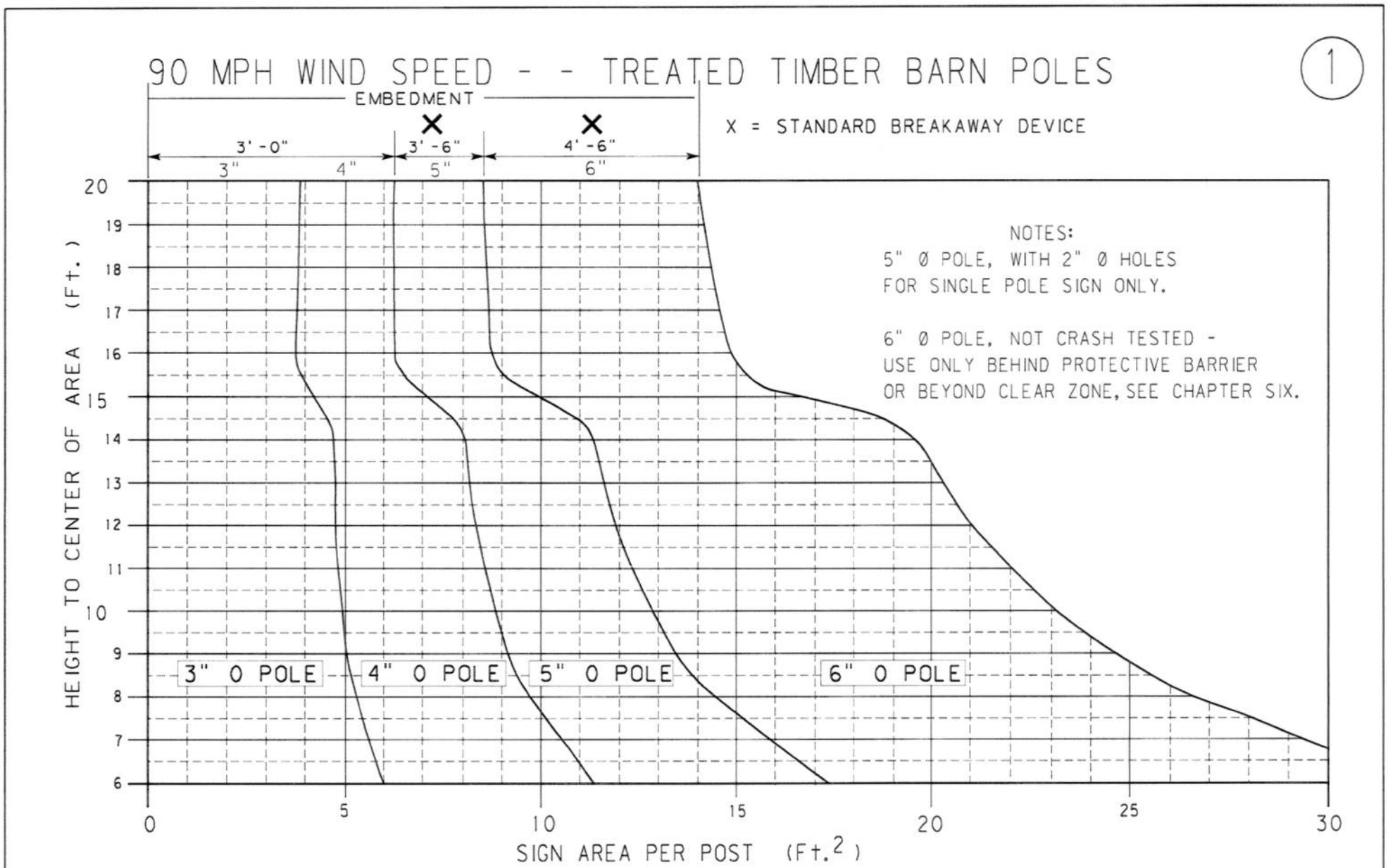
Table 2C-6. Typical Spacing of Chevron Alignmnet Signs on Horizontal Curves

2009 Edition Sect. 2C.09 Chevron Alaignment Sign (W1-8) p.113

Advisory Speed	*Curve* Radius	Sign Spacing
15 mph or <	**<200'**	**40'**
20-30 mph	**200'-400'**	**80'**
35-45 mph	**401'-700'**	**120'**
50-60 mph	**701'-1,250'**	**160'**
> 60 mph	**> 1,250'**	**200'**

2009 Edition Sect. 2C.07 Horizontal Alaignment Signs p.110

Type of Horizontal Alaignment Sign	Difference Between Speed Limit & Advisory Speed: 5 m.p.h.	10 m.p.h.	15 m.p.h.	20 m.p.h.	25 or > m.p.h.
Turn (W1-1), Curve (W1-2), Rev. Curve (W1-4), Winding Road (W1-5) Comb. Horiz. Align./Intersection (W10-1) (see Section 2C.07 to determine which sign to use	Recommended	**Required**	**Required**	**Required**	**Required**
Advisory Speed Plaque (W13-1p)	Recommended	**Required**	**Required**	**Required**	**Required**
Chevrons (W1-8) &/or One Direction Large Arrow (W1-6)	Optional	Recommended	**Required**	**Required**	**Required**
Exit Speed (W13-2) and Ramp Speed (W13-3) on Exit Ramp	Optional	Optional	Recommended	**Required**	**Required**

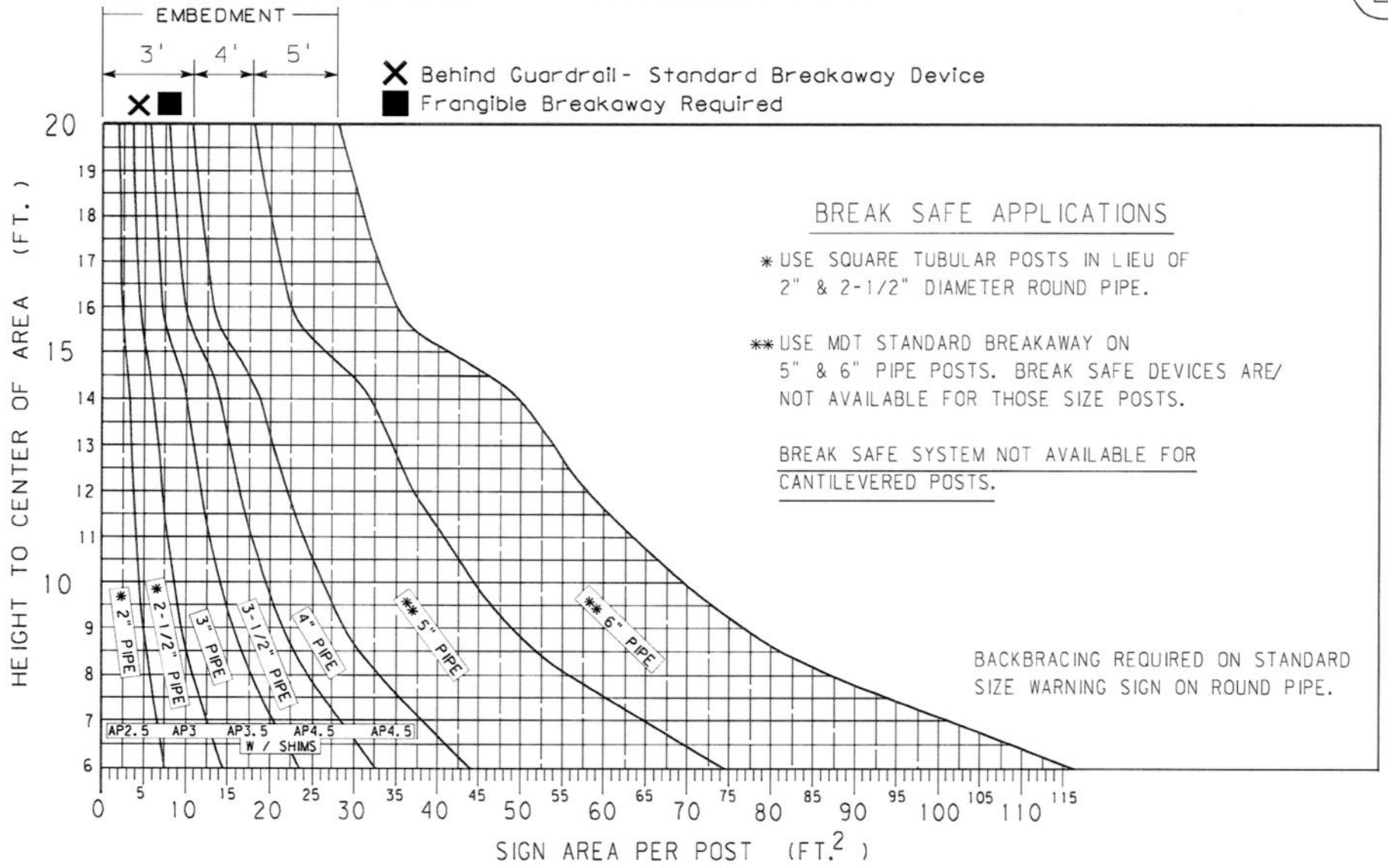


SIZE SELECTION CHART FOR SINGLE OR MULTIPLE POSTS
(Treated Timber Barn Poles: Wind Velocity = 90m/h)
Figure 3A

WindCharts90eng.dgn
Revised 11-10-2015 RDS

90 MPH WIND SPEED - - STANDARD PIPE

(2)



BREAK SAFE APPLICATIONS

* USE SQUARE TUBULAR POSTS IN LIEU OF 2" & 2-1/2" DIAMETER ROUND PIPE.

** USE MDT STANDARD BREAKAWAY ON 5" & 6" PIPE POSTS. BREAK SAFE DEVICES ARE/ NOT AVAILABLE FOR THOSE SIZE POSTS.

BREAK SAFE SYSTEM NOT AVAILABLE FOR CANTILEVERED POSTS.

BACKBRACING REQUIRED ON STANDARD SIZE WARNING SIGN ON ROUND PIPE.

SIZE SELECTION CHART

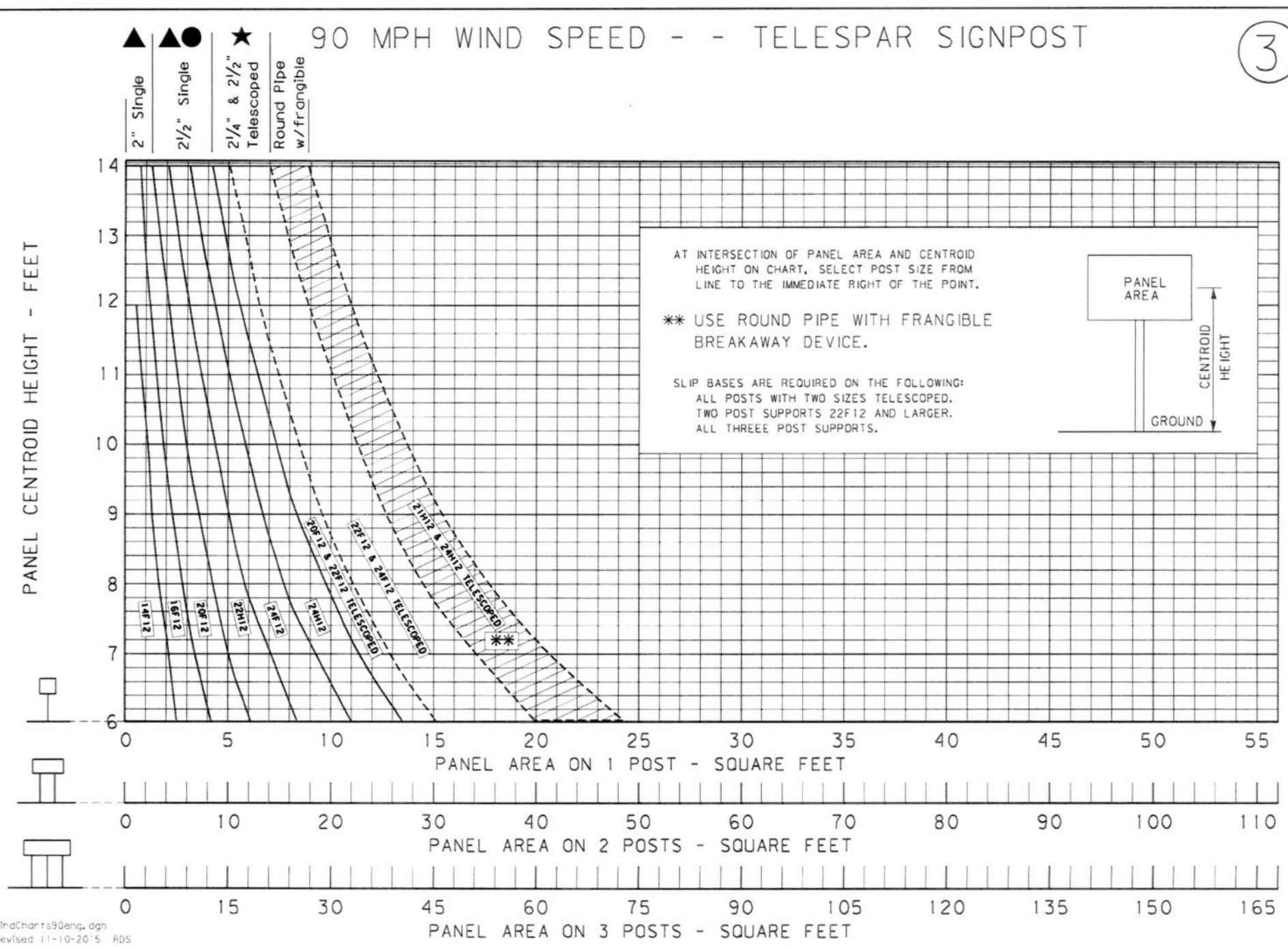
SINGLE POST SIGNS * STANDARD PIPE SECTIONS (Wind Velocity = 145 km/h - 90m/h)

WindCharts90eng.dgn
Revised 11-10-2015 RDS

Figure 12A

90 MPH WIND SPEED - - TELESPAR SIGNPOST

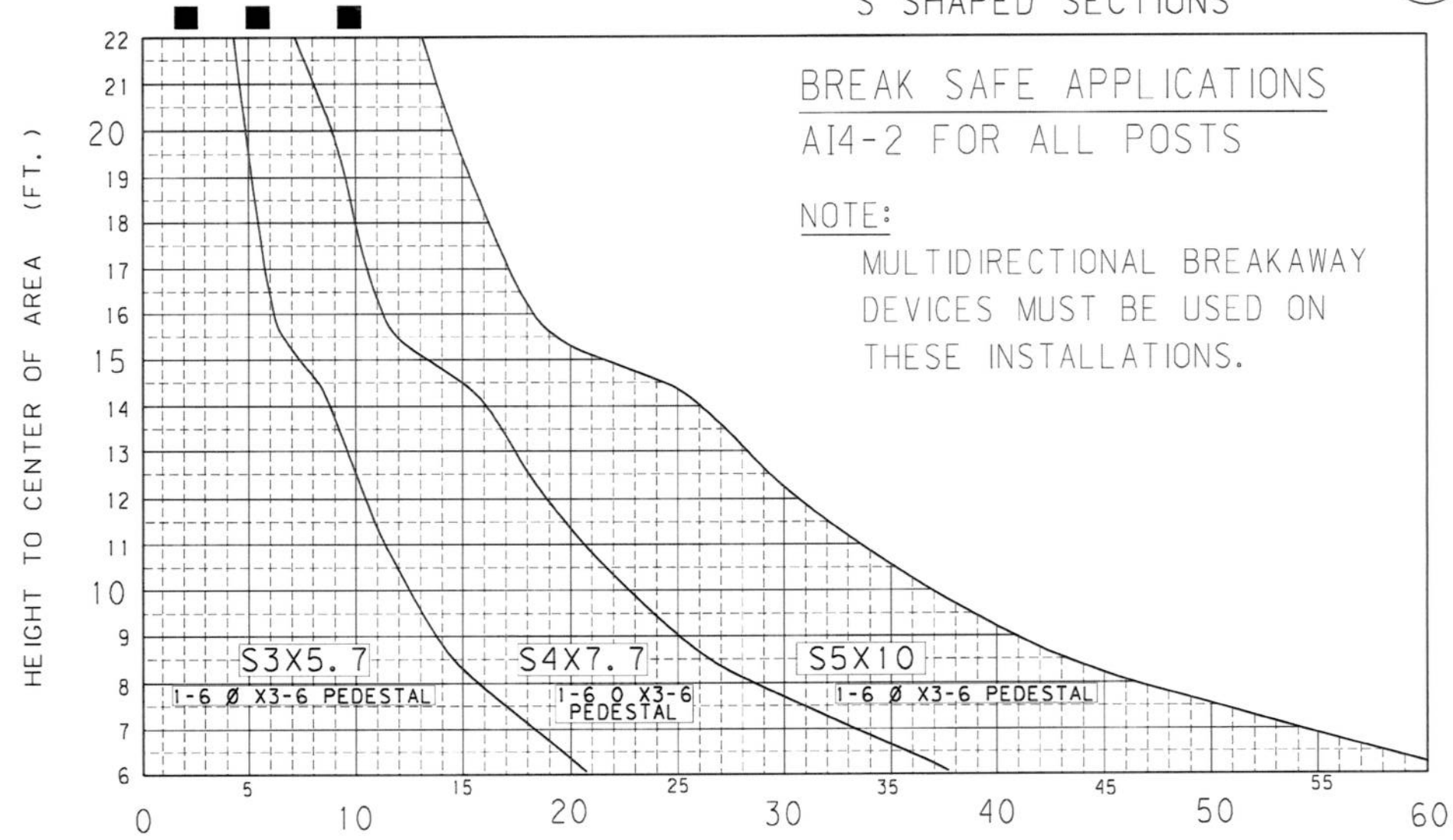
3



WindCharts90eng.dgn
Revised 11-10-2015 RDS

SINGLE OR MULTIPLE POST SIGNS
S SHAPED SECTIONS

(4)



WV=90 MPH

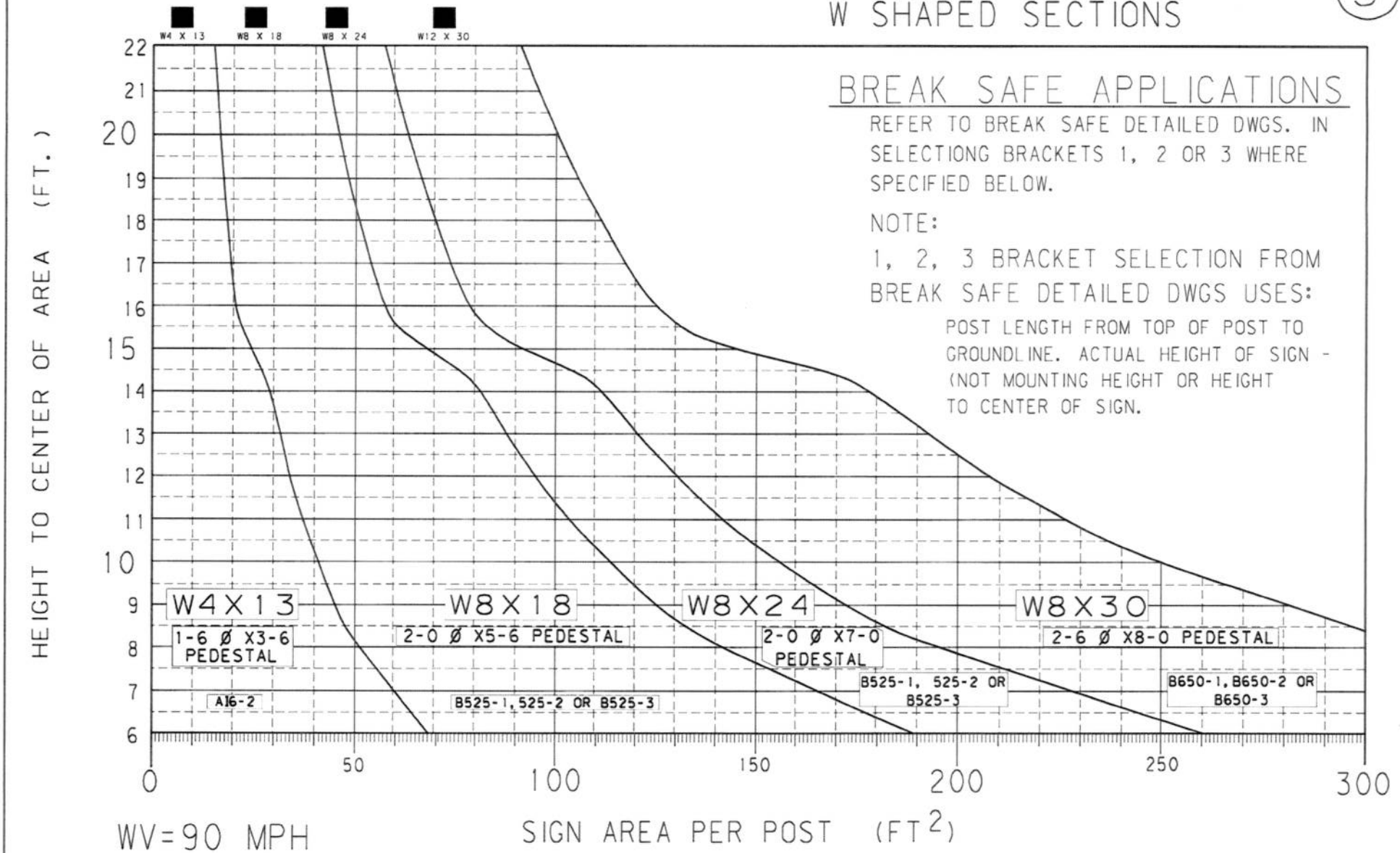
STRUCTURAL STEEL

WindCharts90eng.dgn
Revised 11-10-2015 RDS

Figure 15A

SINGLE OR MULTIPLE POST SIGNS
W SHAPED SECTIONS

5



BREAK SAFE APPLICATIONS

REFER TO BREAK SAFE DETAILED DWGS. IN SELECTIONG BRACKETS 1, 2 OR 3 WHERE SPECIFIED BELOW.

NOTE:

1, 2, 3 BRACKET SELECTION FROM BREAK SAFE DETAILED DWGS USES:

POST LENGTH FROM TOP OF POST TO GROUNDLINE. ACTUAL HEIGHT OF SIGN - (NOT MOUNTING HEIGHT OR HEIGHT TO CENTER OF SIGN.

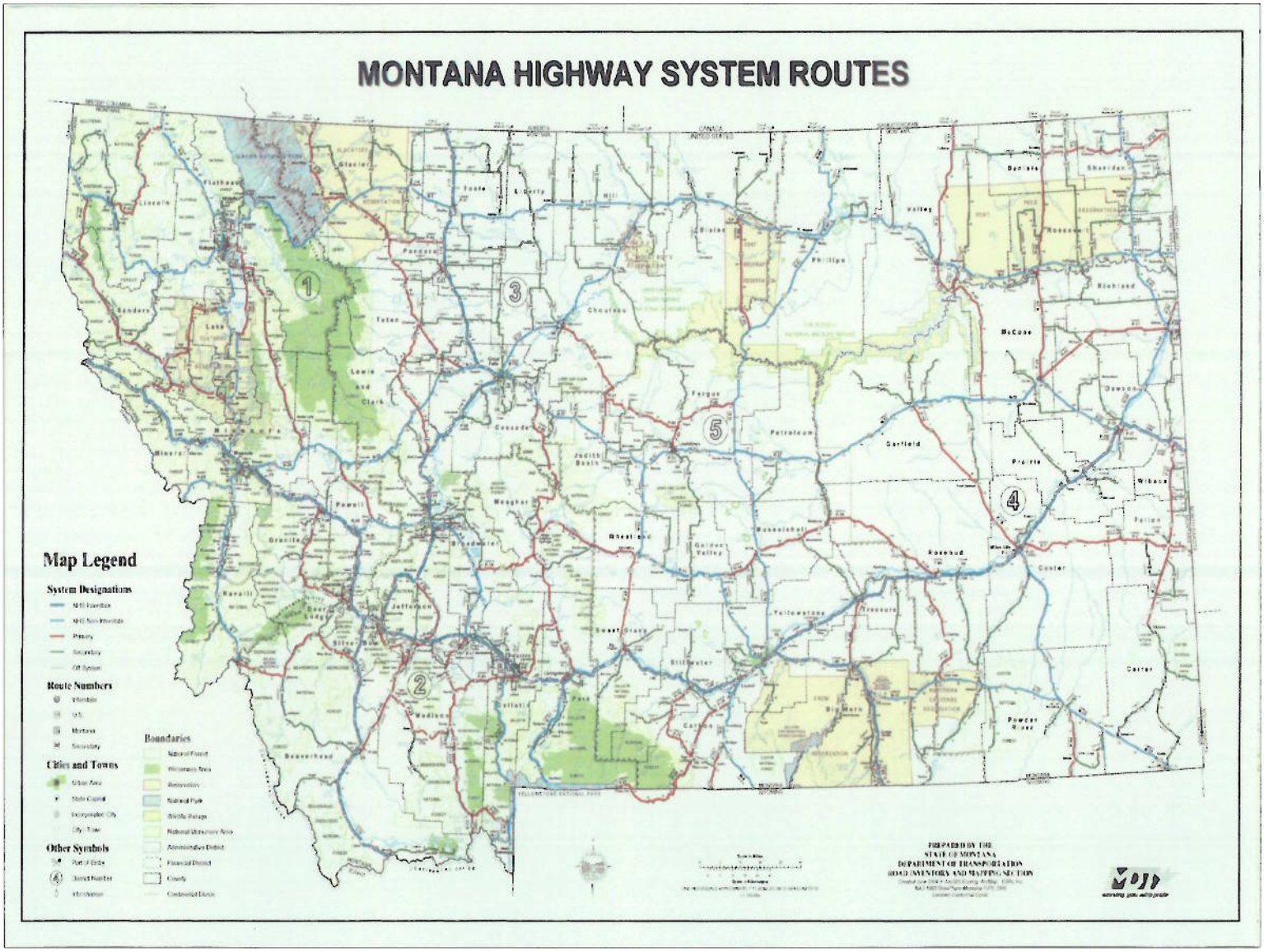
WV=90 MPH

STRUCTURAL STEEL

Figure 18A

WindCharts90eng.dgn
Revised 11-10-2015 RDS

MDT
ARROW SIZE SIGNS



MDT Sign Shop Uses These Arrows

on the Primary & Secondary Signing

MDT

MONTANA DEPARTMENT OF TRANSPORTATION

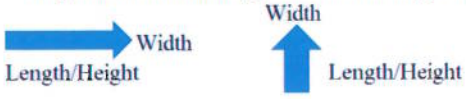
MDT ARROW SIZE SIGNS

MDT Sign Shop Uses These Arrows

on the Primary & Secondary Signing

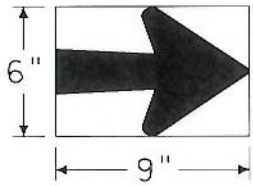
Arrow Sizes			
Upper Case	Width	Height	
* 4" (100mm) - 5" (125mm)	6" (150mm)	9" (225mm)	6x9
* 6" (150mm) - 6-7/8" (175mm)	8-7/16" (210mm)	9-9/16" (240mm)	8.44x9.56
8" (200mm)	11-1/4" (280mm)	12" (300mm)	11-1/4x12
? 10" (250mm) >	14-1/2" (360mm)	17-1/4" (430mm)	14-1/2x17-1/4
D3 - Ground Mount	6" (150mm)	4" (100mm)	6x4
D3- Overhead	6" (150mm)	9" (225mm)	6x9

*** If legend has two lines, go to next size larger arrow.**

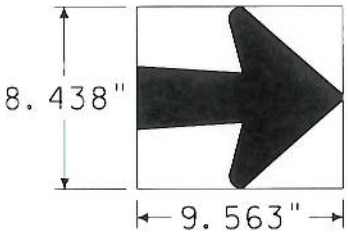


*If legend has tow lines, go to next size larger arrow.

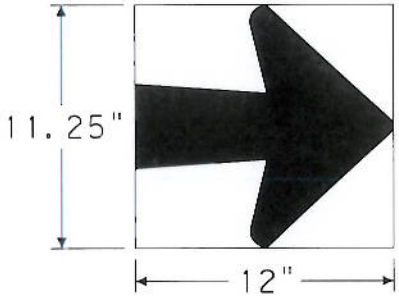
*4"–5" UC



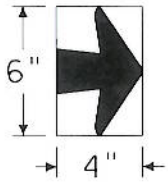
*6"–6-7/8" UC



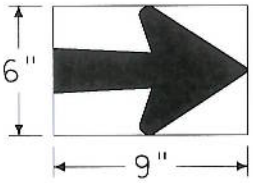
8" UC



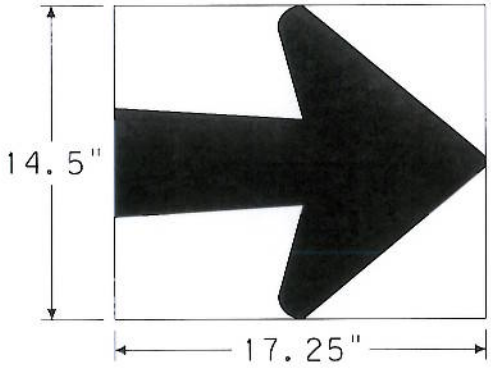
D3–Ground Mount



D3–OverHead



10" (8" 2 line)



MONTANA DEPARTMENT OF TRANSPORTATION

MDT ARROW SIZE SIGNS

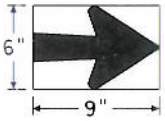
MDT Sign Shop Uses These Arrows

on the Primary & Secondary Signing

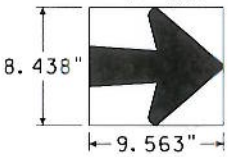
Arrow Sizes		
Primary & Secondary Signing		
* Upper-Case 4" (100mm)	6" x 9"	150mm x 228mm
* Upper-Case 6" (150mm)	8.44" x 9.56"	215mm x 243mm
* Upper-Case 8" (200mm)	11-1/4" x 12"	285mm x 300mm
Upper-Case 8" 2 line (200mm)	14-1/4" x 17-1/4"	430mm x 500mm
D3 w/Arrow (Ground Mount)	6" x 4"	150mm x 100mm
D3 w/Arrow (Overhead)	6" x 9"	150mm x 228mm
19.13 x 19.13 @ 45^	15-1/8" x 24-1/4"	19.13 x 19.13
485mm x 485mm @ 45^	385mm x 615mm	485mm x 485mm
23" x 23" @ 45^	18-1/4" x 29-1/4"	23" x 23"
575mm x 575mm @ 45^	465mm x 740mm	575mm x 575mm

*If legend has tow lines, go to next size larger arrow.

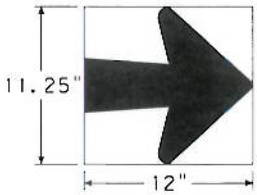
*4" UC



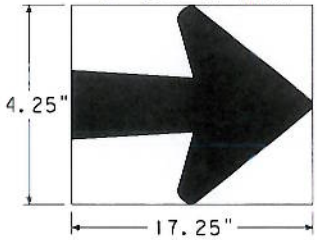
*6" UC



*8" UC



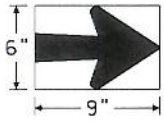
8" UC 2 line



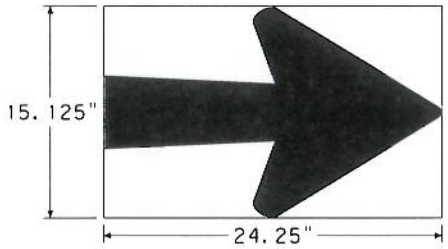
D3 Ground Mount



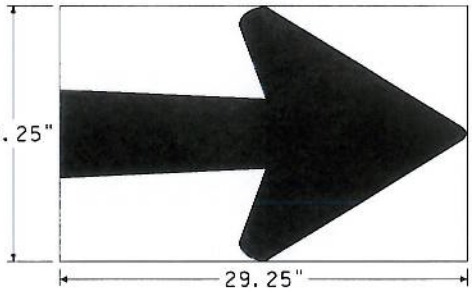
D3 Overhead



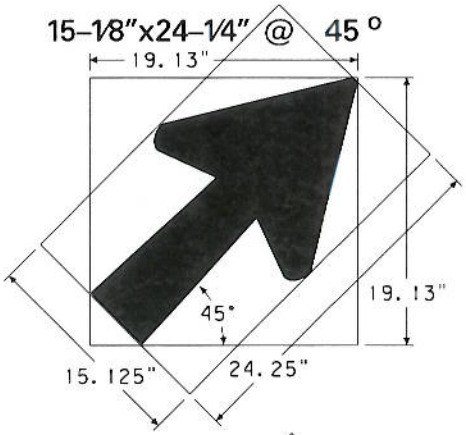
15-1/8"x24-1/4" @ 45°



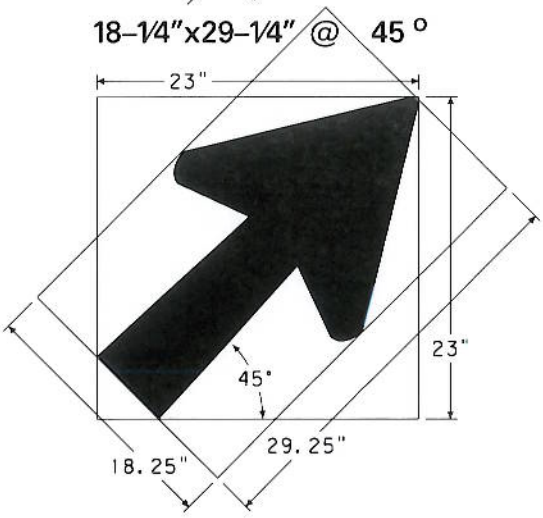
18-1/4"x29-1/4" @ 45°



15-1/8"x24-1/4" @ 45°

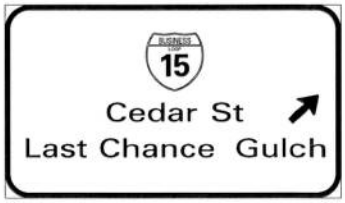


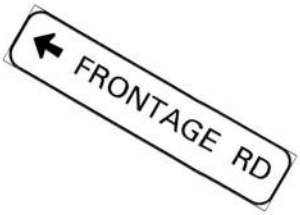
18-1/4"x29-1/4" @ 45°





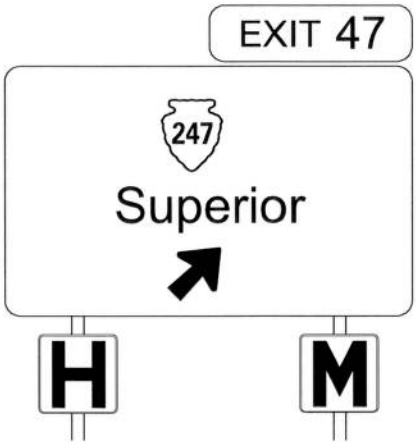
SIGN







LAYOUT GUIDE

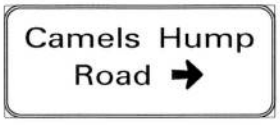




For use with

Scotchlite

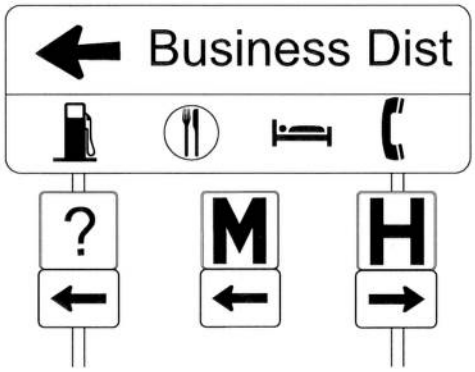
BRAND
REFLECTIVE SHEETING

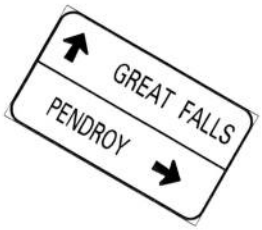


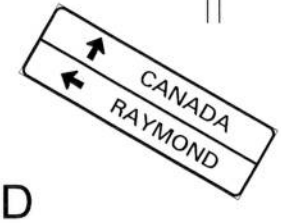
Letters and Symbols















3M STANDARD
ARROWS

Traffic Control Materials Division/3M

Roger Schroeder 2010
ArrowsSlsdc001

3M STANDARD
ARROWS
Traffic Control Materials Division/3M

INTERSTATE
TYPE "A" ARROW

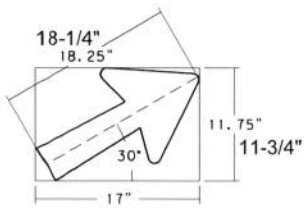
SIGN LAYOUT GUIDE
For use with Scotchlite

Arrow Type "A" (long) Double Line

30°

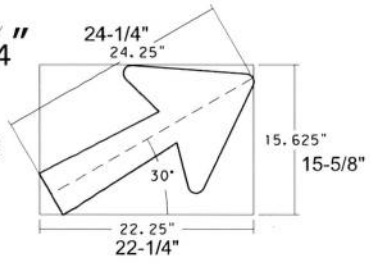
11¼" x 18¼"

4 – 6" CAPS



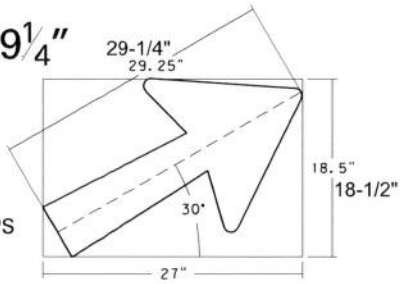
15⅛" x 24¼"

8" CAPS



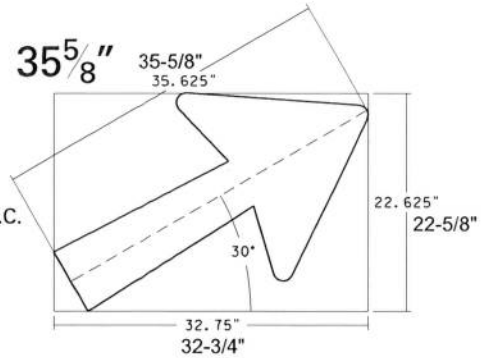
18¼" x 29¼"

10.67 U.C.
13–⅓ U.C.
10 – 12" CAPS

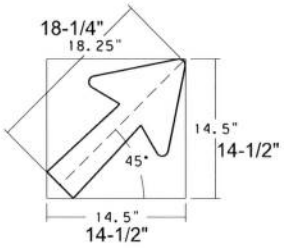


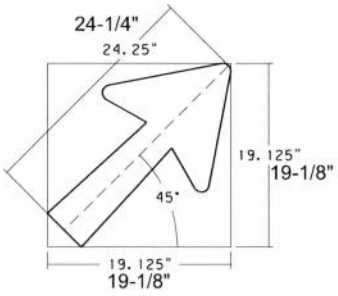
22¼" x 35⅝"

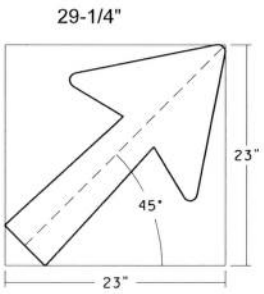
15" CAPS – 16" U.C.

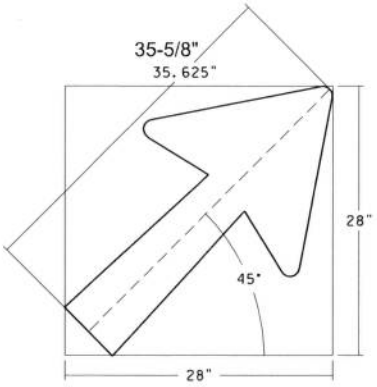


45°

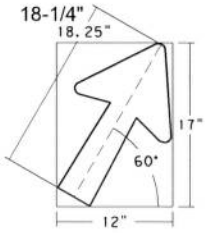


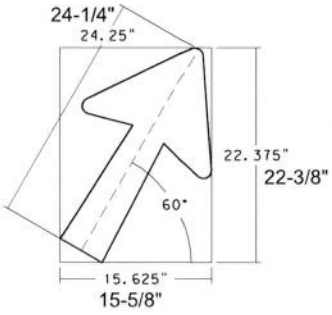


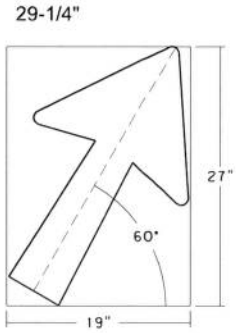


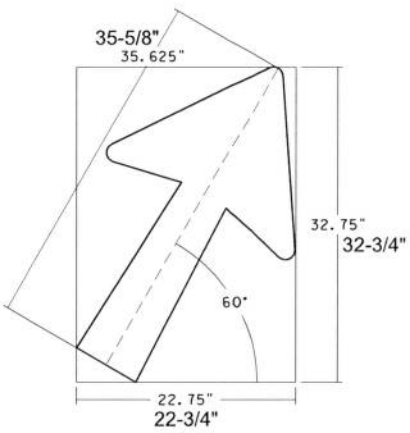


60°









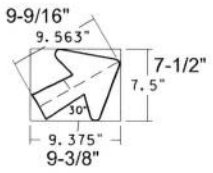
3M STANDARD
ARROWS
Traffic Control Materials Division/3M

INTERSTATE
TYPE "B" ARROW

SIGN LAYOUT GUIDE
For use with Scotchlite

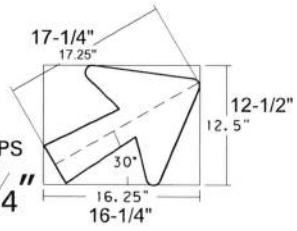
Arrow Type "B" (short) Single Line

30°



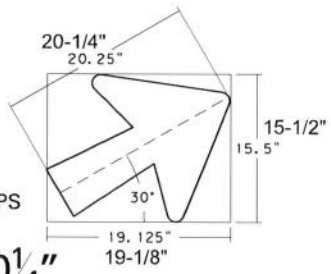
4 – 6" CAPS

$8\frac{7}{16}$" x $9\frac{9}{16}$"



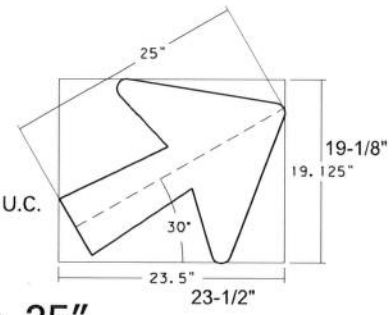
8" CAPS

$14\frac{1}{4}$" x $17\frac{1}{4}$"



10.67 U.C.
13–⅓ U.C.
10 – 12" CAPS

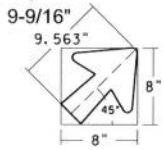
$17\frac{1}{2}$" x $20\frac{1}{4}$"

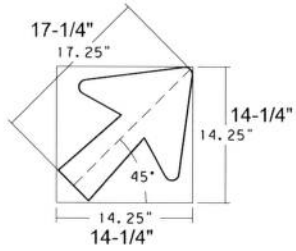


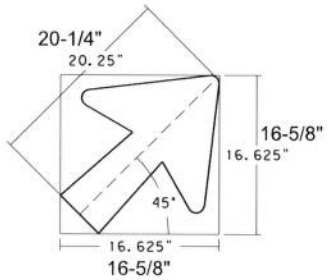
15" CAPS – 16" U.C.

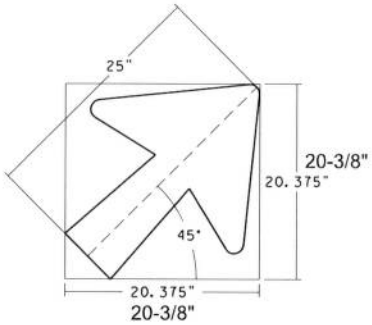
$21\frac{7}{8}$" x 25"

45°

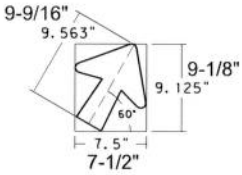




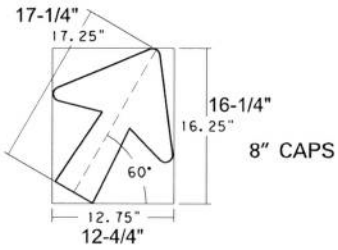




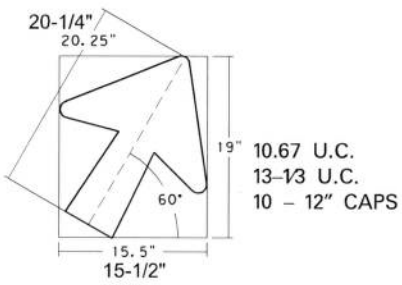
60°



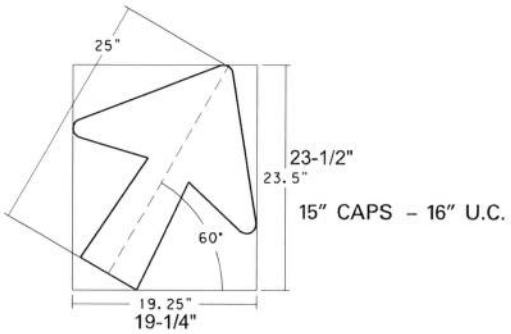
4 – 6" CAPS



8" CAPS



10.67 U.C.
13–⅓ U.C.
10 – 12" CAPS



15" CAPS – 16" U.C.

3M STANDARD
ARROWS
Traffic Control Materials Division/3M

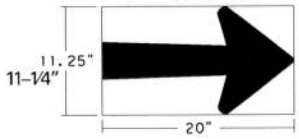
NON–INTERSTATE

DIMENSIONS OF ARROW WHEN USED WITH VARIOUS LETTER SIZES

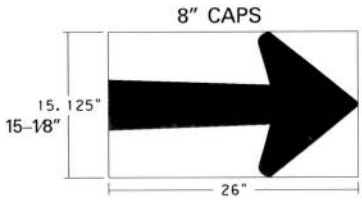
SIGN LAYOUT GUIDE
For use with Scotchlite

Vertical or Diagonal Double Line Arrow

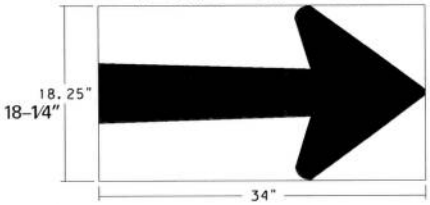
4 – 6″ CAPS



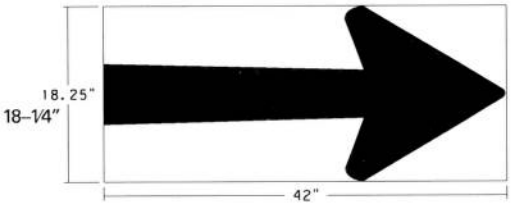
8″ CAPS



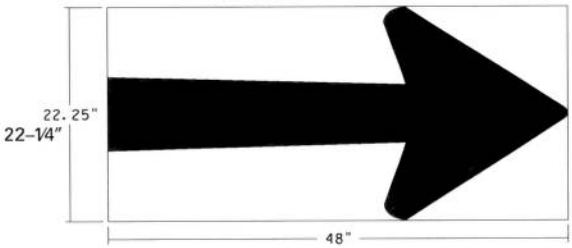
10″ CAPS – 10.67″ U.C.



12″ CAPS – 13.33″ U.C.

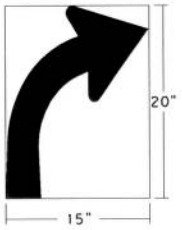


15″ CAPS – 16″ U.C.

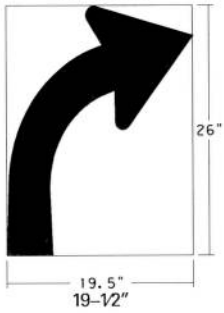


Double Line Curve Arrow

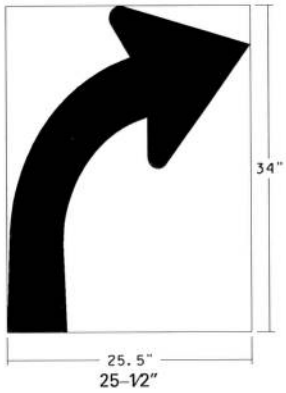
4 – 6″ CAPS



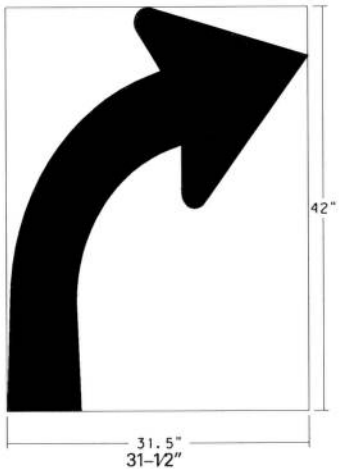
8″ CAPS



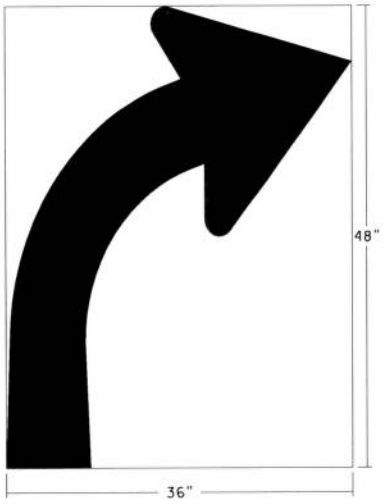
10″ CAPS – 10.67″ U.C.



12″ CAPS – 13.33″ U.C.



15″ CAPS – 16″ U.C.

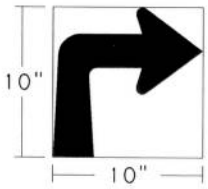
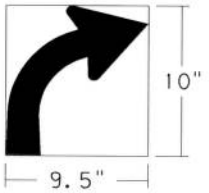
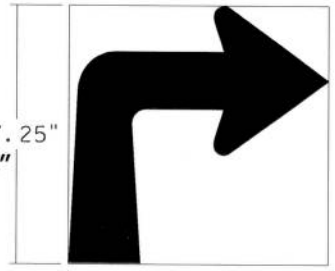
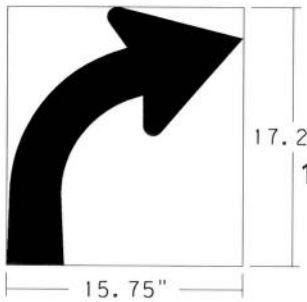
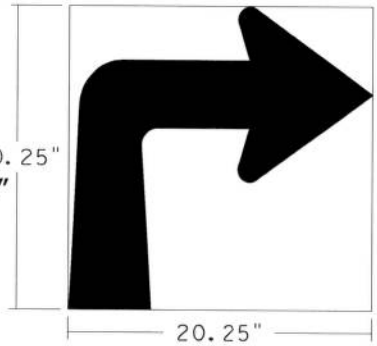
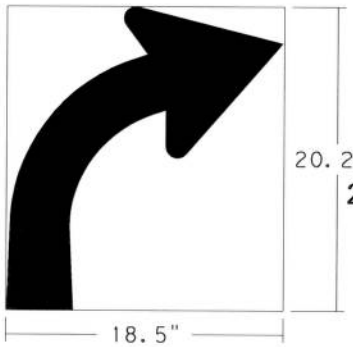
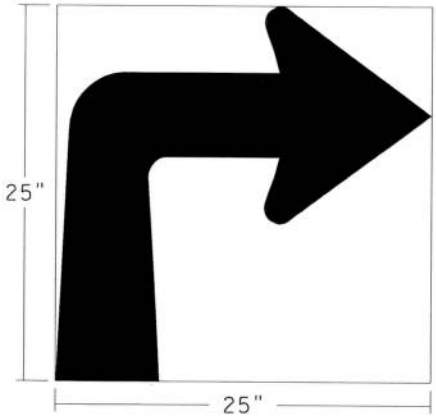
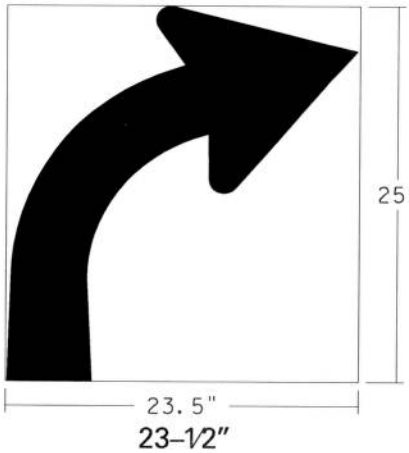


NON–INTERSTATE

DIMENSIONS OF ARROW WHEN USED WITH VARIOUS LETTER SIZES

3M STANDARD
ARROWS
Traffic Control Materials Division/3M

SIGN LAYOUT GUIDE
For use with Scotchlite

Single Line Turn Arrow		Single Line Curve Arrow
	4 – 6″ CAPS	 9–1/2″
 17–1/4″ 17–1/4″	10.67″ U.C. – 8–10″ CAPS CAPS	 17–1/4″ 15–3/4″
 20–1/4″ 20–1/4″	13.33″ U.C. – 12″ CAPS	 20–1/4″ 18–1/2″
	15″ CAPS – 16″ U.C.	 23–1/2″

3M STANDARD
ARROWS
Traffic Control Materials Division/3M

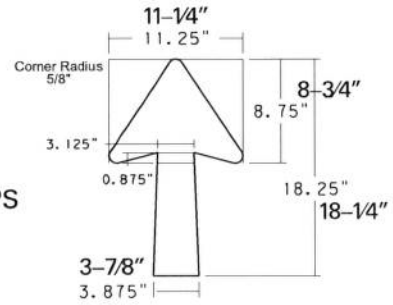
INTERSTATE

DIMENSIONS OF ARROW WHEN USED WITH VARIOUS LETTER SIZES

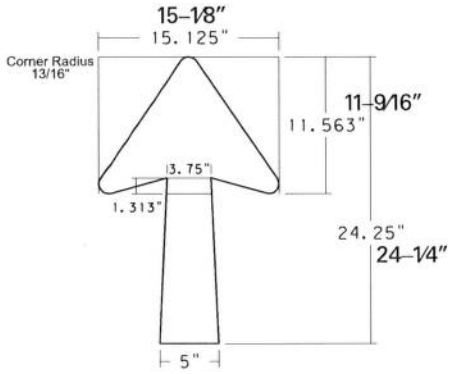
Arrow Type "A" (long) Double Line
Arrow Type "B" (short) Single Line

SIGN LAYOUT GUIDE
For use with Scotchlite

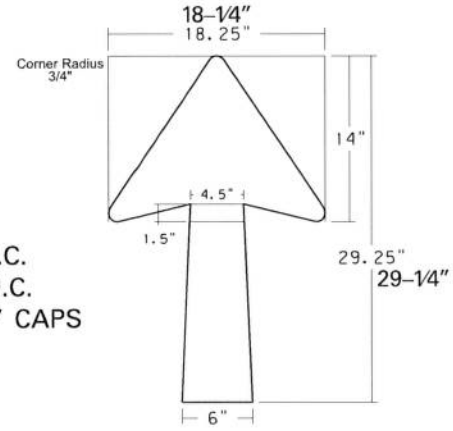
"A" VERTICAL or DIAGONAL ARROW



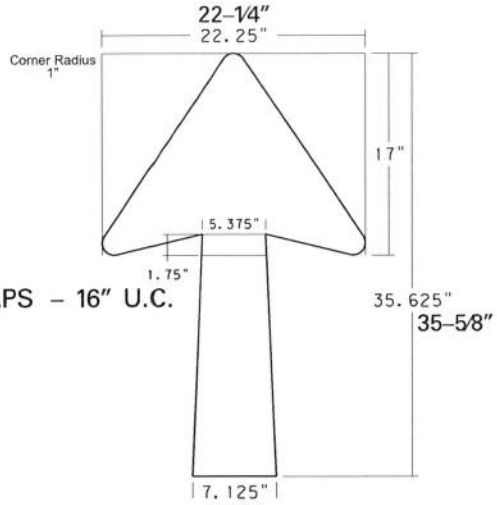
4 – 6" CAPS



8" CAPS

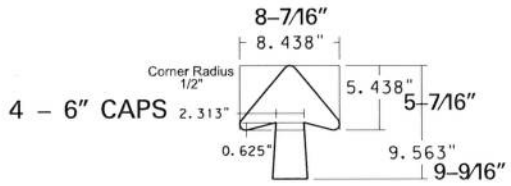


10.67 U.C.
13-1/3 U.C.
10 – 12" CAPS

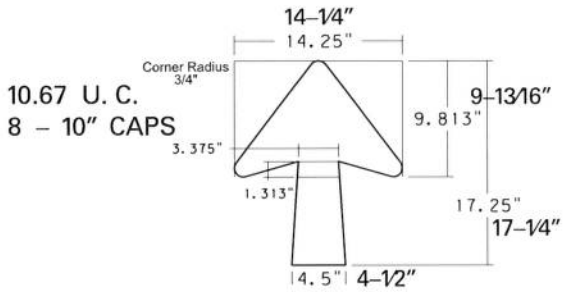


15" CAPS – 16" U.C.

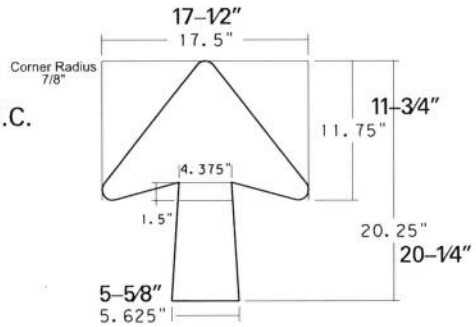
"B" VERTICAL or DIAGONAL ARROW



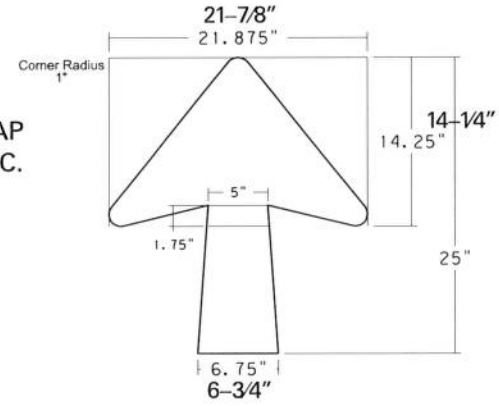
4 – 6" CAPS



10.67 U. C.
8 – 10" CAPS

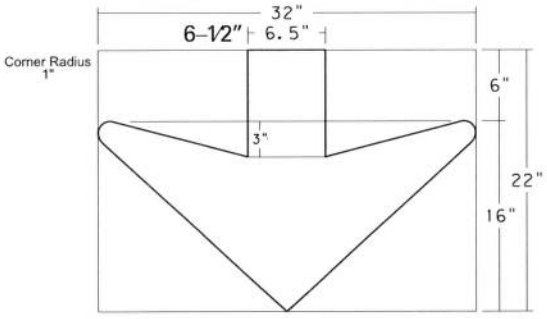


13-1/3" U.C.
12" CAP



15" CAP
16" U.C.

"C" VERTICAL DOWN ARROW



DOWN ARROW: 32" x 22"

3M STANDARD
ARROWS
Traffic Control Materials Division/3M

INTERSTATE

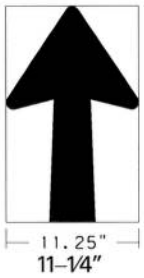
DIMENSIONS OF ARROW WHEN USED WITH VARIOUS LETTER SIZES

Arrow Type "A" (long) Double Line
Arrow Type "B" (short) Single Line

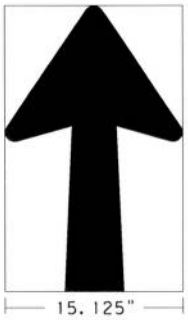
SIGN LAYOUT GUIDE
For use with Scotchlite

"A" VERTICAL or DIAGONAL ARROW

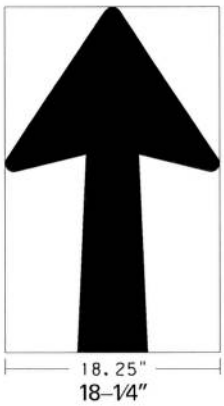
4 – 6" CAPS



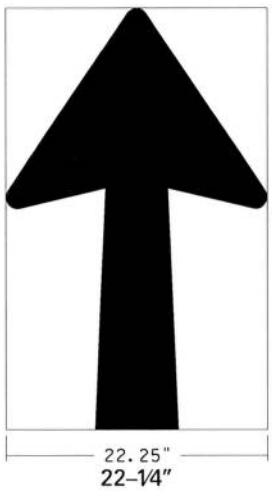
8" CAPS



10.67 U.C.
13-1/3 U.C.
10 – 12" CAPS

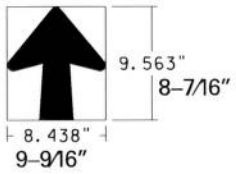


15" CAPS – 16" U.C.

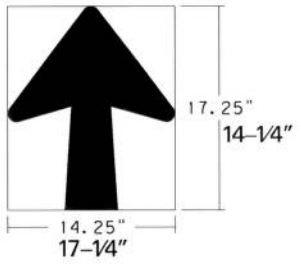


"B" VERTICAL or DIAGONAL ARROW

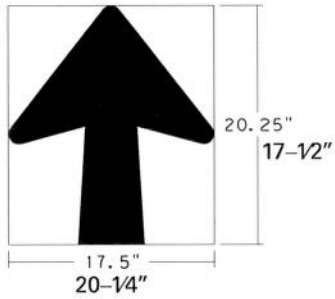
4 – 6" CAPS



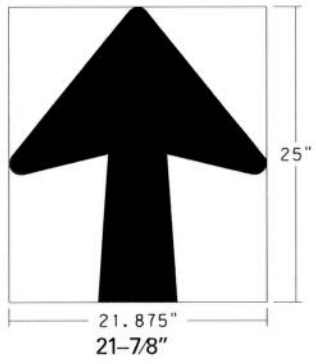
10.67 U. C.
8 – 10" CAPS



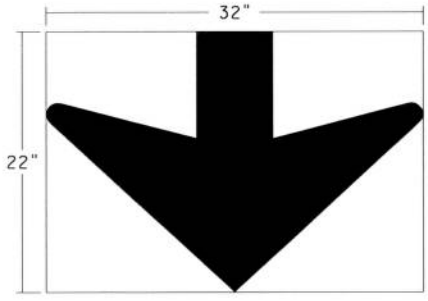
13-1/3" U.C.
12" CAP



15" CAP
16" U.C.



"C" VERTICAL DOWN ARROW



DOWN ARROW: 32" x 22"

3M STANDARD
ARROWS
Traffic Control Materials Division/3M

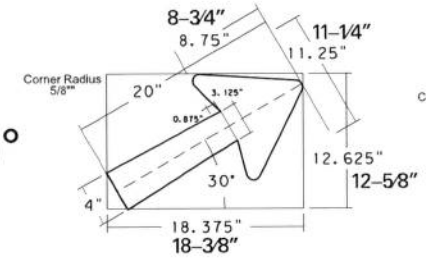
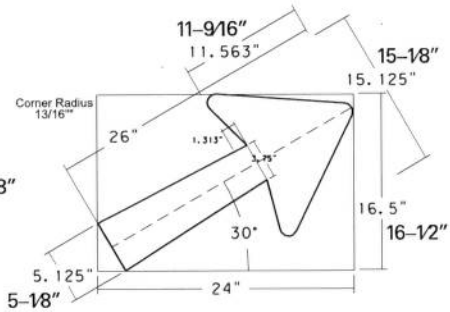
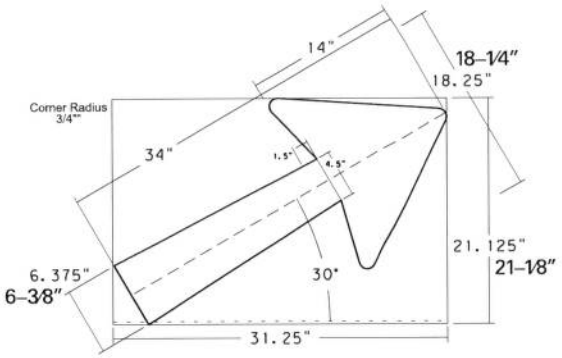
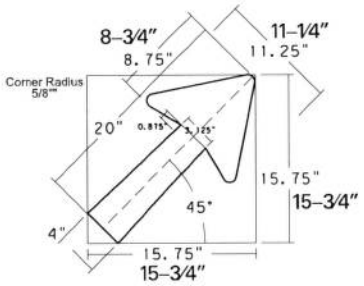
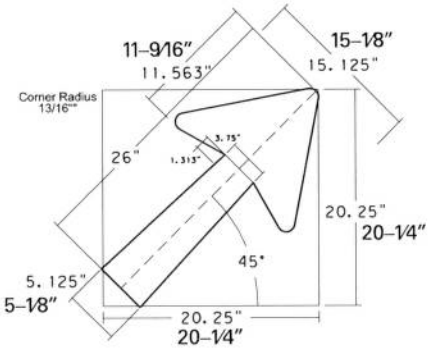
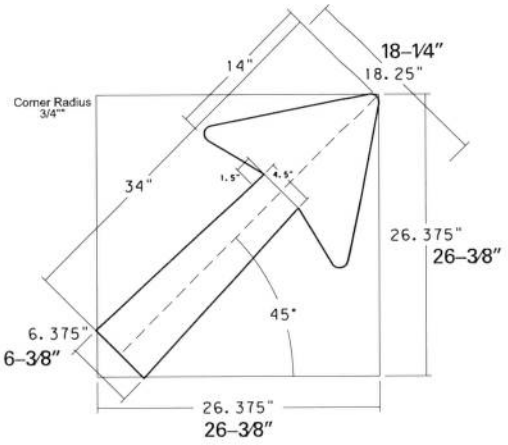
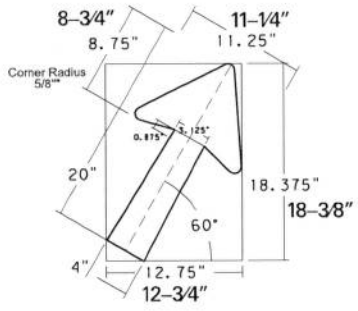
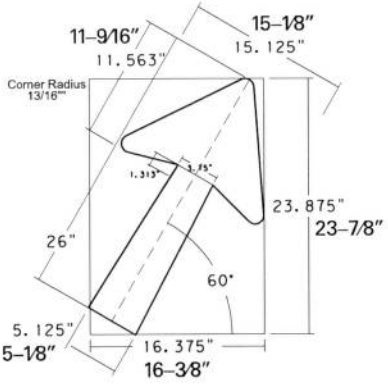
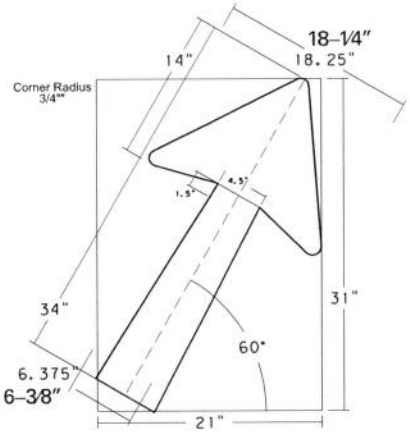
INTERSTATE

SPACING FOR DOUBLE LINE VERTICAL OR DIAGONAL ARROW

SIGN LAYOUT GUIDE

Arrow Type "A" (long) Double Line

For use with Scotchlite

	4 – 6" CAPS $11\frac{1}{4}$" x 20"	8" CAPS $15\frac{1}{8}$" x 26"	10" CAPS – 10.67" U.C. $18\frac{1}{4}$" x 34"
30°			
45°			
60°			

3M STANDARD
ARROWS
Traffic Control Materials Division/3M

INTERSTATE

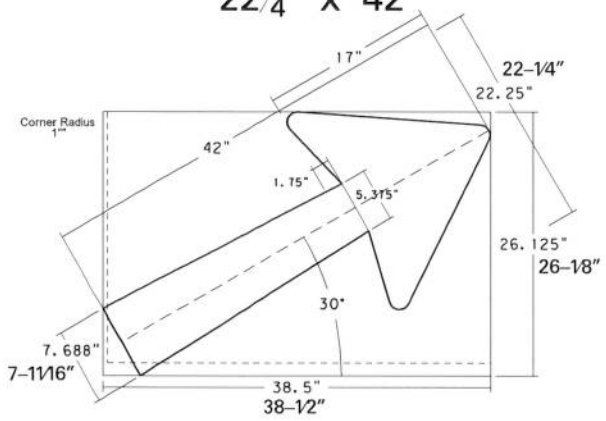
SPACING FOR DOUBLE LINE VERTICAL OR DIAGONAL ARROW

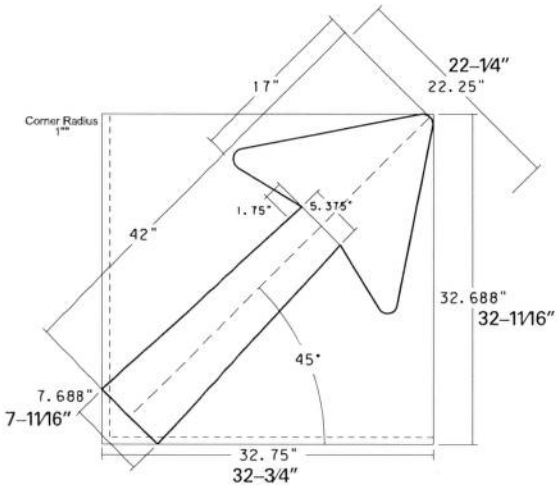
SIGN LAYOUT GUIDE

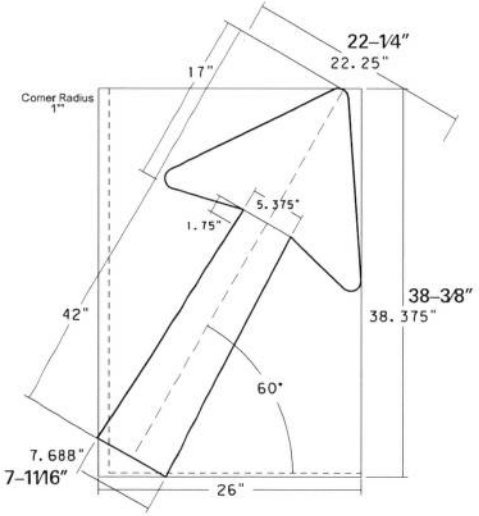
Arrow Type "A" (long) Double Line — For use with Scotchlite

12" CAPS – 13.33" U.C.

22¼" x 42"

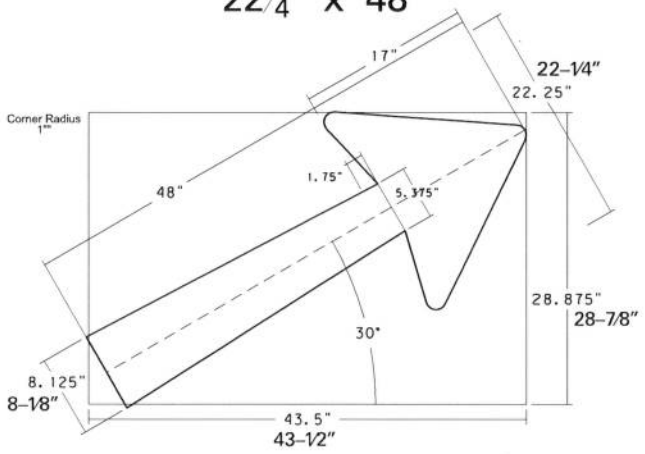


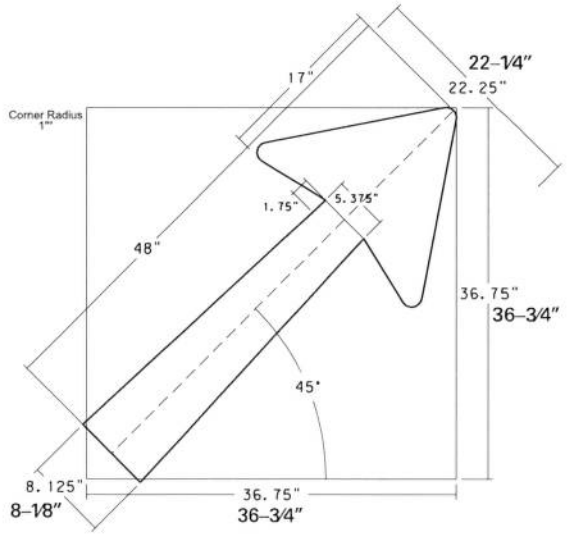


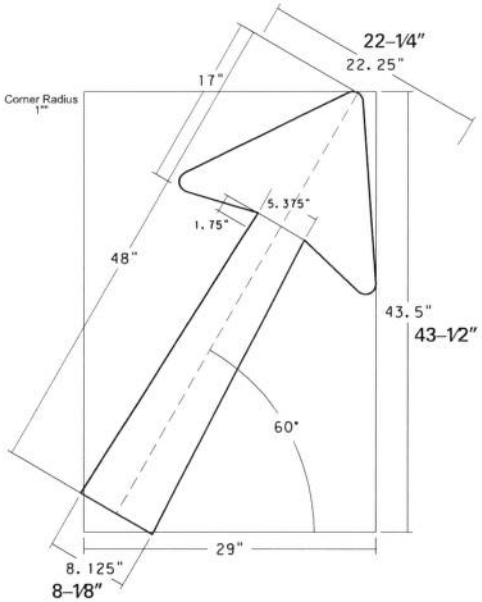


15" CAPS – 16" U.C.

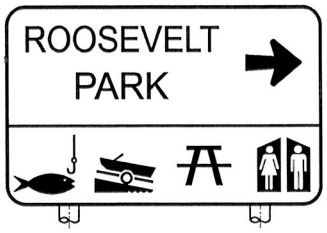
22¼" x 48"







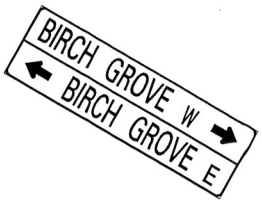






SIGN LAYOUT GUIDE

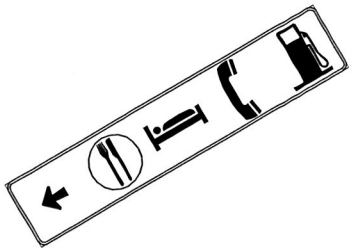
For use with Standard Highway SIGNS

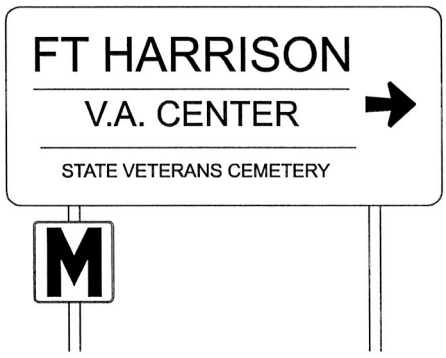


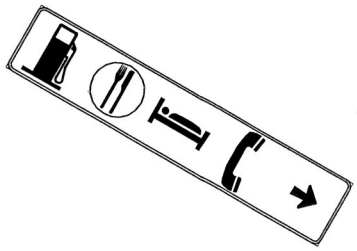




STANDARD ARROW DETAILS
ARROWS FOR GUIDE SIGNS

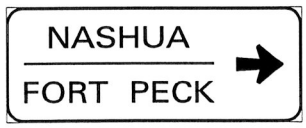












MDT
Standard Highway
SIGNS

U.S. DEPARTMENT OF TRANSPORTAION
Federal Highway Administration

AS SPECIFIED IN THE MANUAL ON UNIFORM TRAFFIC CONTROLDEVICES 1978

STANDARD ARROW DETAILS

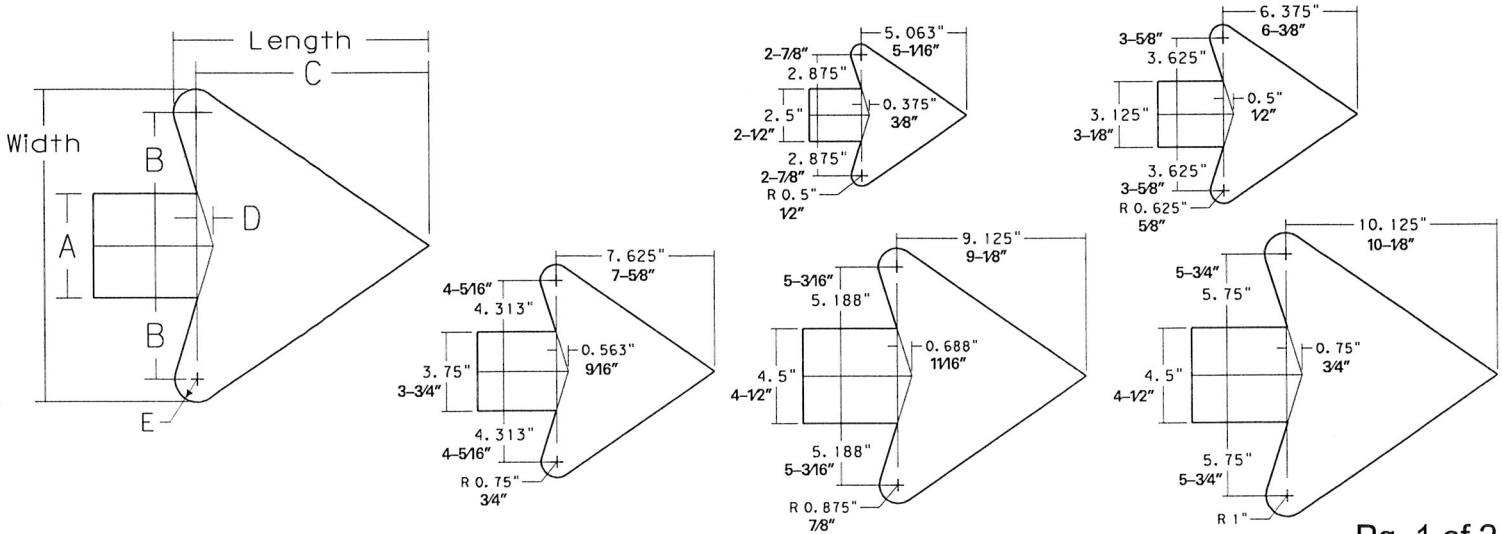
Standard Highway Signs
Pg. 6–2

Decimals

A	B	C	D	E	Width x Length
2	2.313	4.313	0.313	0.375	5.376 x 5.063
2.25	2.625	4.5	0.375	0.438	6.126 x 5.376
2.5	2.875	5.063	0.375	0.5	6.75 x 6.063
2.625	3	5.25	0.375	0.5	7. x 6.25
2.75	3	5.563	0.438	0.563	7.126 x 6.689
3	3.5	6.125	0.438	0.563	8.126 x 7.251
3.125	3.625	6.375	0.5	0.625	8.5 x 7.625
3.25	3.75	6.625	0.5	0.625	8.75 x 7.875
3.313	3.813	6.688	0.5	0.688	9.002 x 8.064
3.5	4	7.125	0.563	0.688	9.376 x 8.501
3.75	4.313	7.625	0.563	0.75	10.126 x 9.125
4	4.625	8.125	0.625	0.813	10.876 x 9.751
4.063	4.75	8.25	0.625	0.813	11.126 x 9.876
4.25	4.875	8.625	0.625	0.813	11.376 x 10.251
4.375	5	8.875	0.688	0.875	11.75 x 10.625
4.5	5.188	9.125	0.688	0.875	12.126 x 10.875
4.75	5.438	9.625	0.75	1	12.876 x 11.625
4.875	5.625	9.875	0.75	1	13.25 x 11.875
5	5.75	10.125	0.75	1	13.5 x 12.125
5.25	6	10.625	0.813	1.063	14.126 x 12.751
5.5	6.375	11.125	0.875	1.125	15. x 13.375
5.75	6.625	11.688	0.875	1.125	15.5 x 13.938
6	6.875	12.188	0.938	1.188	16.126 x 14.564
6.5	7.5	13.188	1	1.625	18.25 x 16.438
7	8	14.188	1.063	1.375	18.75 x 16.938
7.5	8.625	15.188	1.125	1.5	20.25 x 18.188
8	9.188	16.25	1.25	1.625	21.626 x 19.5

Fractions

A	B	C	D	E	Width x Length
2	2 5/16	4 5/16	5/16	3/8	5 3/8 x 5 1/16
2 1/4	2 5/8	4 1/2	3/8	7/16	6 1/8 x 5 3/8
2 1/2	2 7/8	5 1/16	3/8	1/2	6 3/4 x 6 1/16
2 5/8	3	5 1/4	3/8	1/2	7 x 6 1/4
2 3/4	3	5 9/16	7/16	9/16	7 1/8 x 6 31/45
3	3 1/2	6 1/8	7/16	9/16	8 1/8 x 7 1/4
3 1/8	3 5/8	6 3/8	1/2	5/8	8 1/2 x 7 5/8
3 1/4	3 3/4	6 5/8	1/2	5/8	8 3/4 x 7 7/8
3 5/16	3 13/16	6 11/16	1/2	11/16	9 x 8 5/78
3 1/2	4	7 1/8	9/16	11/16	9 3/8 x 8 1/2
3 3/4	4 5/16	7 5/8	9/16	3/4	10 1/8 x 9 1/8
4	4 5/8	8 1/8	5/8	13/16	10 7/8 x 9 3/4
4 1/16	4 3/4	8 1/4	5/8	13/16	11 1/8 x 9 7/8
4 1/4	4 7/8	8 5/8	5/8	13/16	11 3/8 x 10 1/4
4 3/8	5	8 7/8	11/16	7/8	11 3/4 x 10 5/8
4 1/2	5 3/16	9 1/8	11/16	7/8	12 1/8 x 10 7/8
4 3/4	5 7/16	9 5/8	3/4	1	12 7/8 x 11 5/8
4 7/8	5 5/8	9 7/8	3/4	1	13 1/4 x 11 7/8
5	5 3/4	10 1/8	3/4	1	13 1/2 x 12 1/8
5 1/4	6	10 5/8	13/16	1 1/16	14 1/8 x 12 3/4
5 1/2	6 3/8	11 1/8	7/8	1 1/8	15 x 13 3/8
5 3/4	6 5/8	11 11/16	7/8	1 1/8	15 1/2 x 13 15/16
6	6 7/8	12 3/16	15/16	1 3/16	16 1/8 x 14 22/39
6 1/2	7 1/2	13 3/16	1	1 5/8	18 1/4 x 16 7/16
7	8	14 3/16	1 1/16	1 3/8	18 3/4 x 16 15/16
7 1/2	8 5/8	15 3/16	1 1/8	1 1/2	20 1/4 x 18 3/16
8	9 3/16	16 1/4	1 1/4	1 5/8	21 5/8 x 19 1/2



MDT
Standard Highway
SIGNS

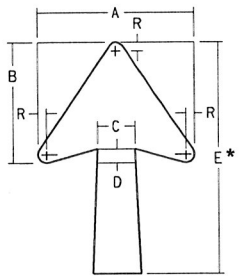
U.S. DEPARTMENT OF TRANSPORTAION
Federal Highway Administration

AS SPECIFIED IN THE MANUAL ON UNIFORM TRAFFIC CONTROLDEVICES 1978

ARROWS for GUIDE SIGNS

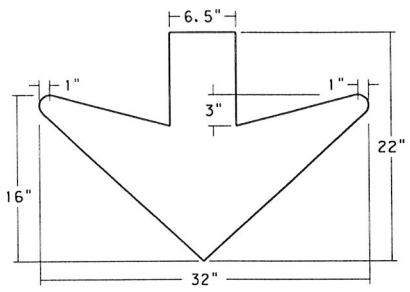
Standard Highway Signs
Pg. 6–3

UP ARROW



*Taper of .5" per ft. should be held constand for longer or shorter shaft lengths.

DOWN ARROW

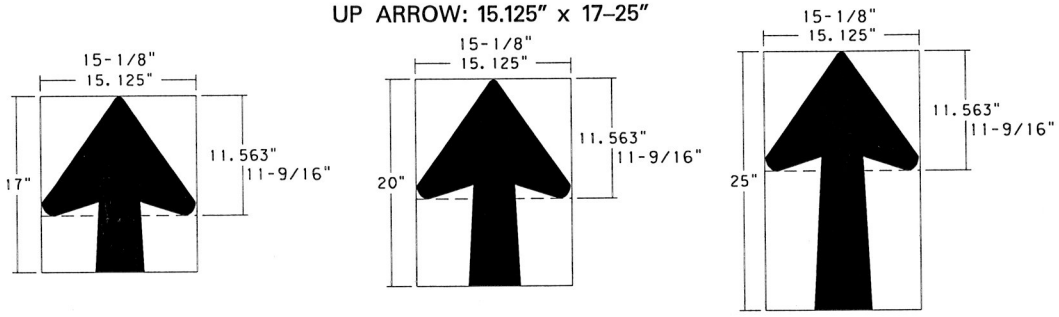


Dimensions of Arrow When Used With Various Letter Cap Heights.

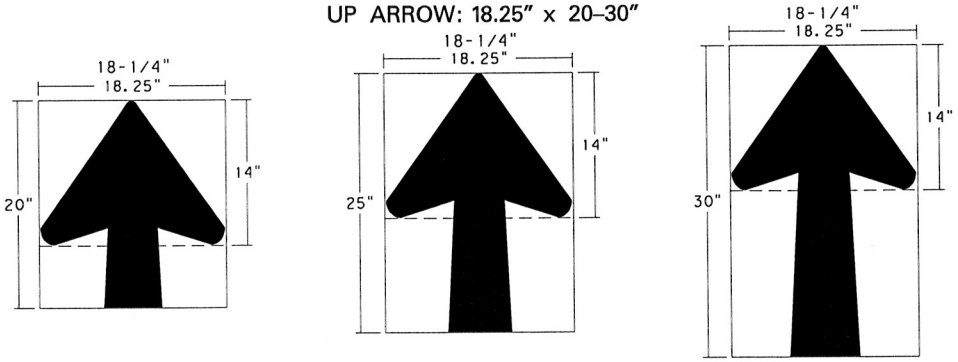
Letter Size	A	B	C	D	E*	R
8	15-1/8"	11-9/16"	3-3/4"	1-5/16"	17"-25"	13/16"
10-13.3	18-1/4"	14"	4-1/2"	1-1/2"	20"-30"	3/4"
16	22-1/4"	17"	5-3/8"	1-3/4"	25"-35"	1"

Letter Size	A	B	C	D	E*	R
200mm	15.125	11.563	3.75	1.313	17-25	.813
250-325mm	18.25	14	4.5	1.5	20-30	.75
400mm	22.25	17	5.375	1.75	25-35	1

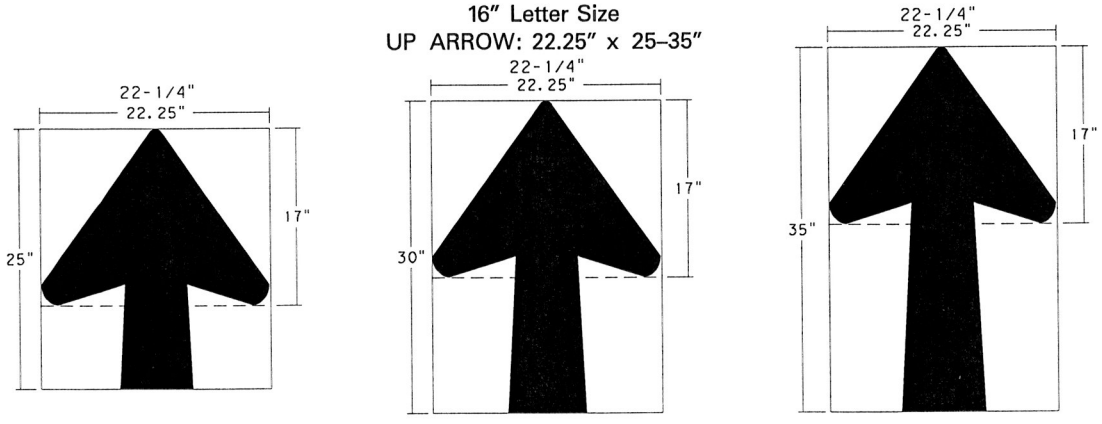
8" Letter Size
UP ARROW: 15.125" x 17–25"



10–13.3" Letter Size
UP ARROW: 18.25" x 20–30"



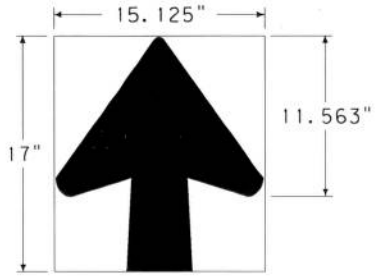
16" Letter Size
UP ARROW: 22.25" x 25–35"

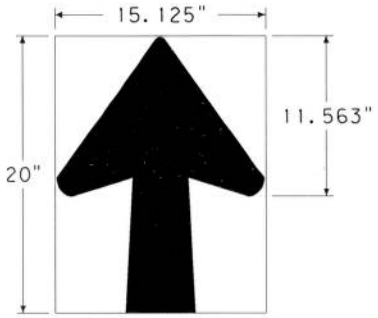


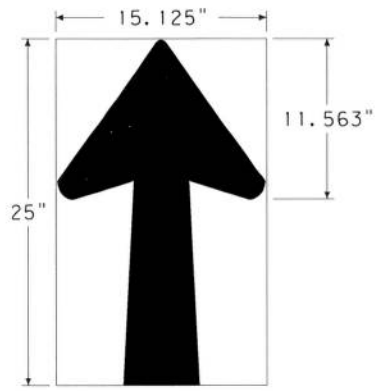
ARROWS for GUIDE SIGNS

Standard Highway Signs
Pg. 6–3

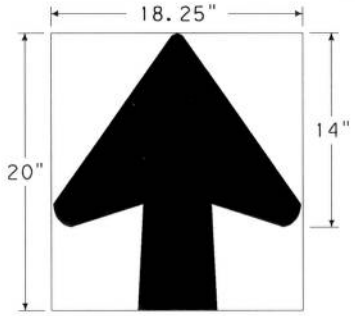
8″ Letter Size
UP ARROW: 15.125″ x 17–25″

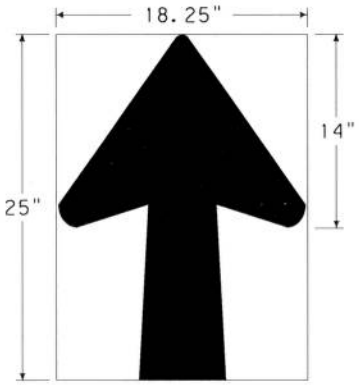


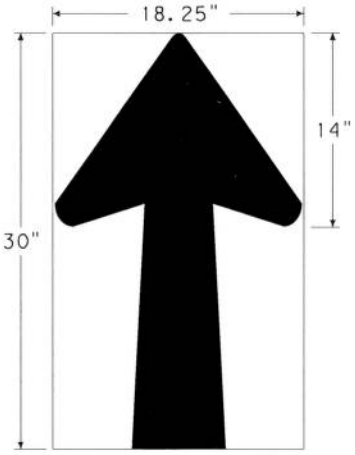




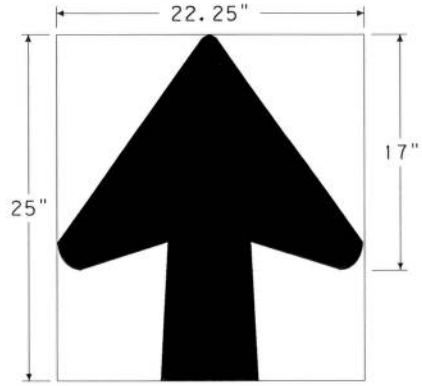
10–13.3″ Letter Size
UP ARROW: 18.25″ x 20–30″

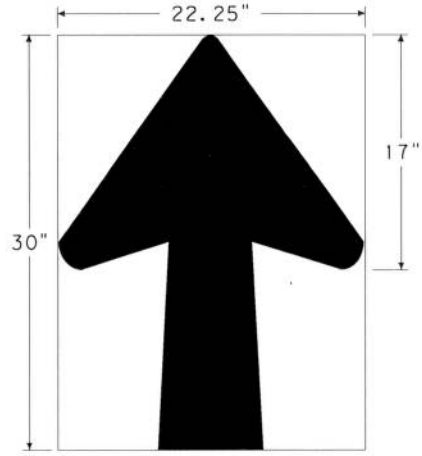


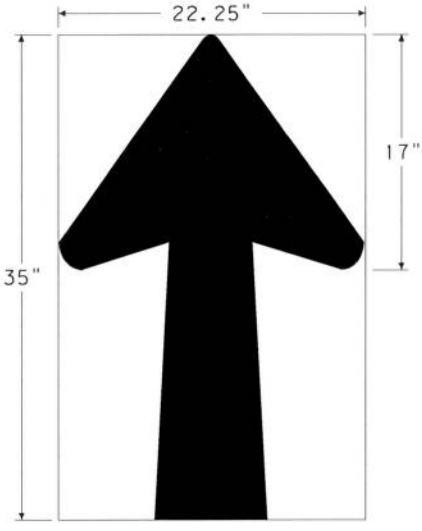




16″ Letter Size
UP ARROW: 22.25″ x 25–35″



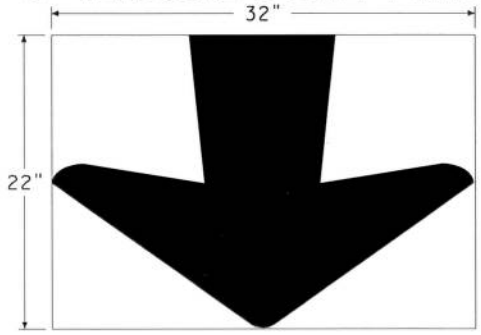




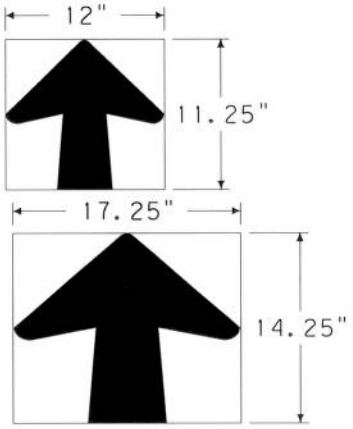
ARROWS for GUIDE SIGNS

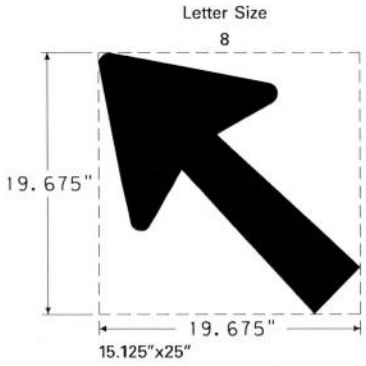
Standard Highway Signs
Pg. 6–3

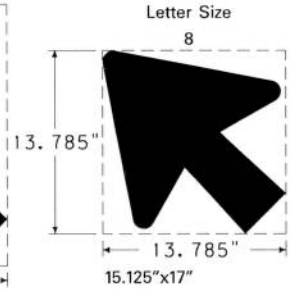
"C" VERTICAL DOWN ARROW

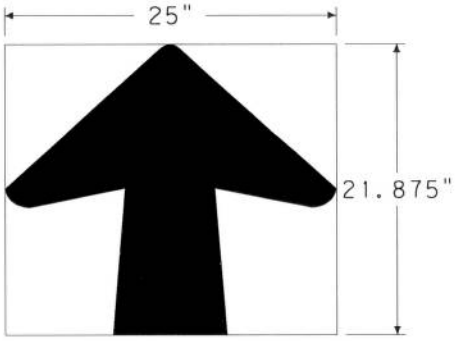


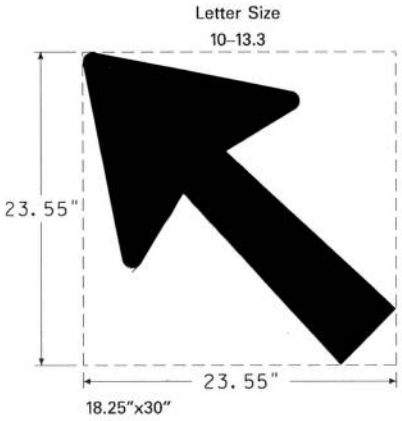
DOWN ARROW: 32" x 22"

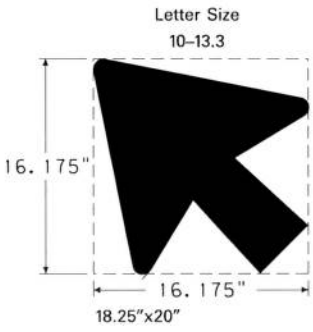


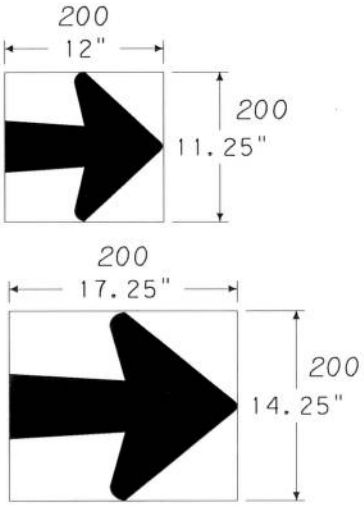


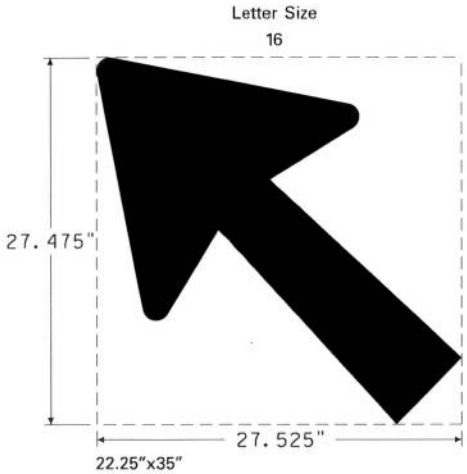


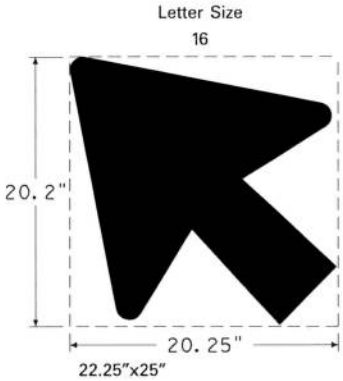


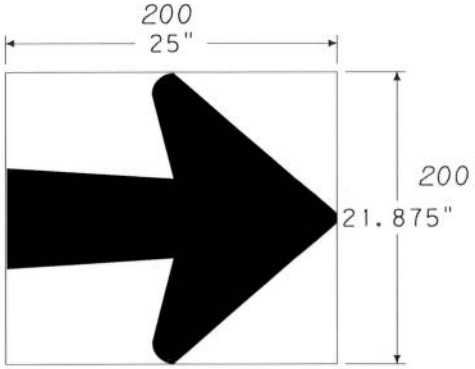






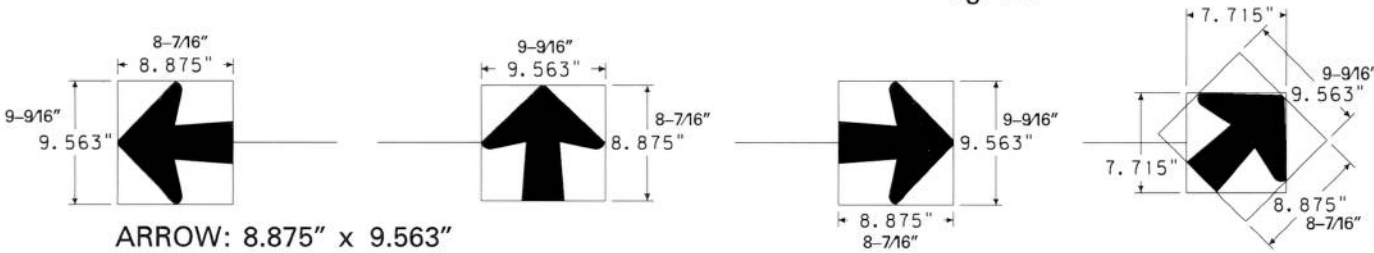




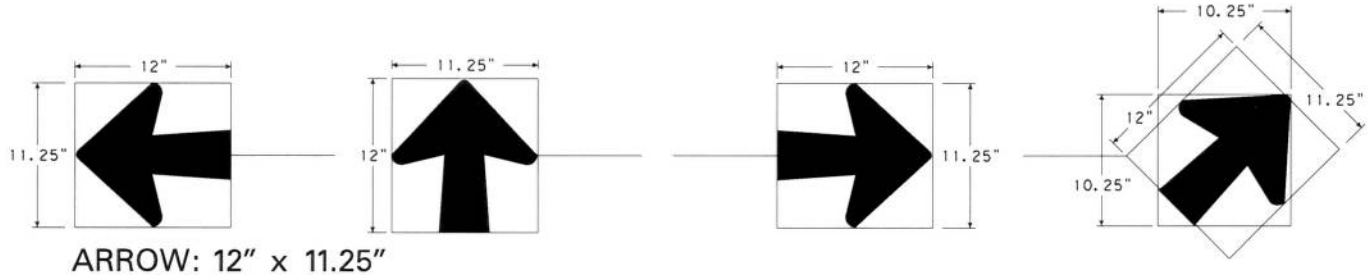


ARROWS for GUIDE SIGNS

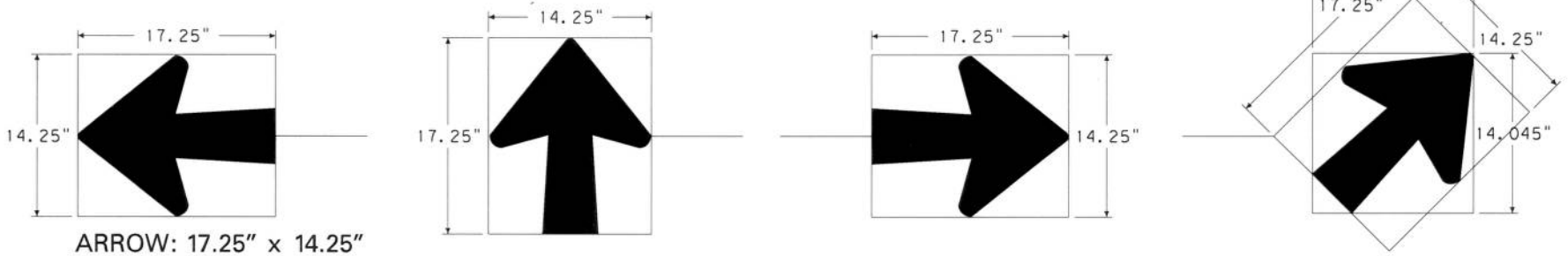
Standard Highway Signs
Pg. 6–3



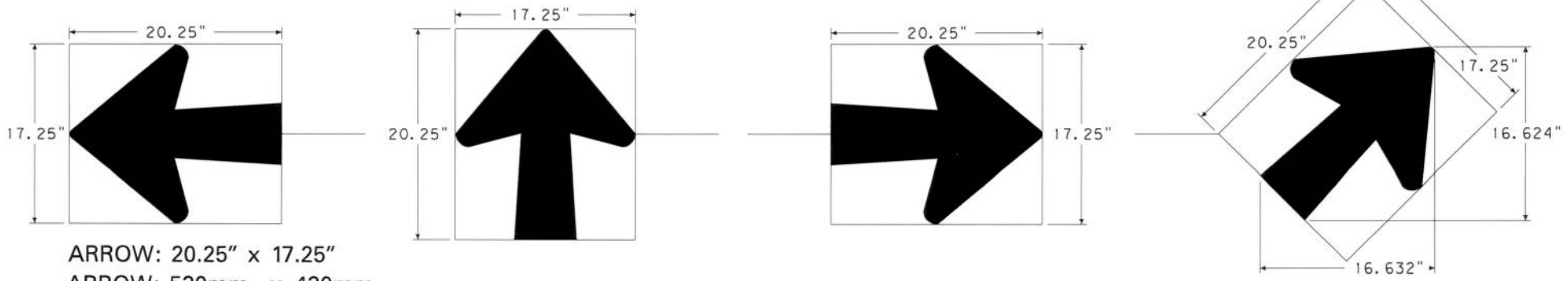
ARROW: 8.875" x 9.563"
ARROW: 200mm x 225mm



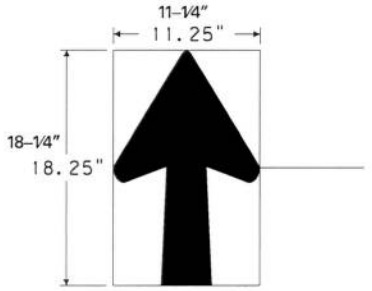
ARROW: 12" x 11.25"
ARROW: 300mm x 280mm



ARROW: 17.25" x 14.25"
ARROW: 430mm x 360mm



ARROW: 20.25" x 17.25"
ARROW: 530mm x 430mm



ARROW: 11.25" x 18.25"
ARROW: 280mm x 356mm

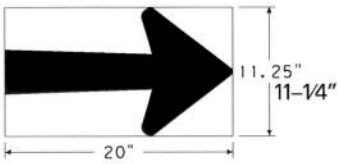
UP ARROW

NON–INTERSTATE

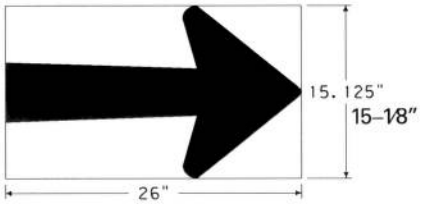
DIMENSIONS OF ARROW WHEN USED WITH VARIOUS LETTER SIZES

Vertical or Diagonal
Double Line
Arrow

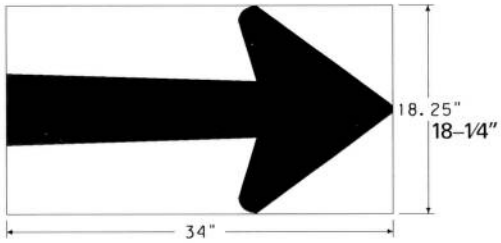
4 – 6″ CAPS



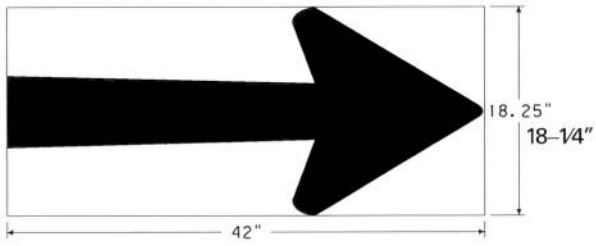
8″ CAPS



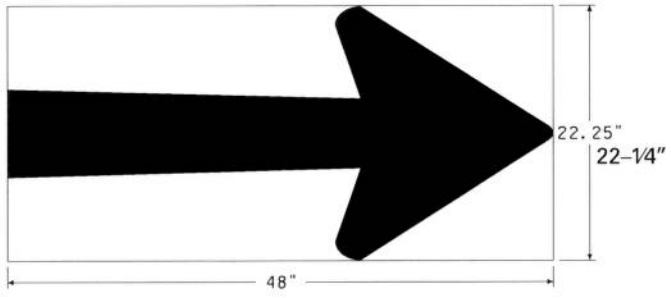
10″ CAPS – 10.67″ U.C.



12″ CAPS – 13.33″ U.C.



15″ CAPS – 16″ U.C.

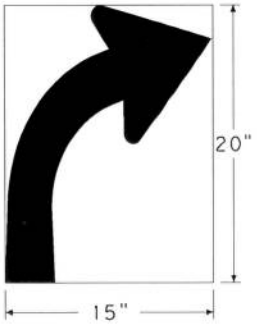


NON–INTERSTATE

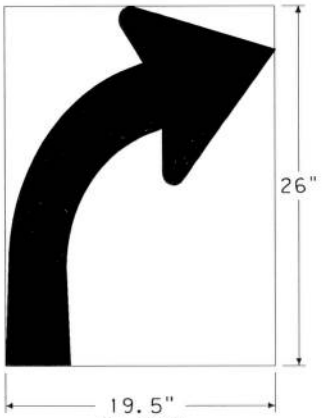
DIMENSIONS OF ARROW WHEN USED WITH VARIOUS LETTER SIZES

Double Line
Curve Arrow

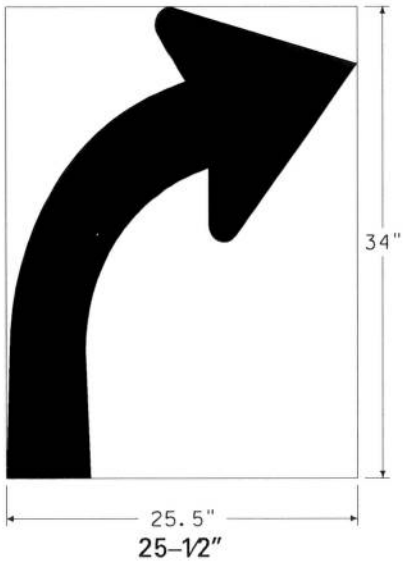
4 – 6″ CAPS



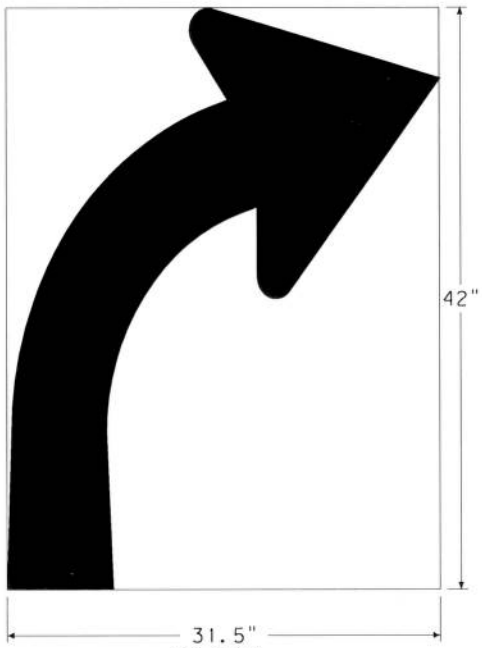
8″ CAPS



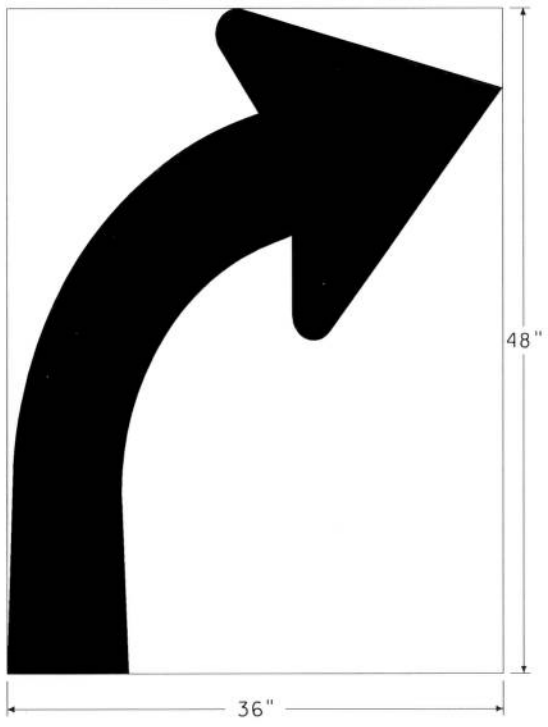
10″ CAPS – 10.67″ U.C.



12″ CAPS – 13.33″ U.C.



15″ CAPS – 16″ U.C.

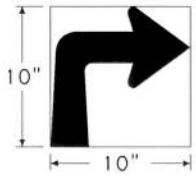


NON–INTERSTATE

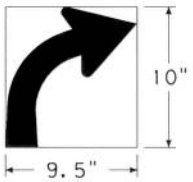
DIMENSIONS OF ARROW WHEN USED WITH VARIOUS LETTER SIZES

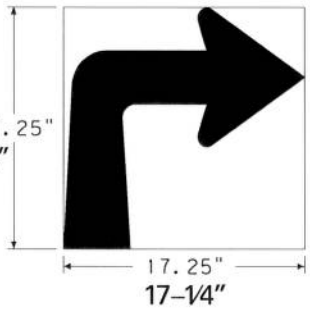
Single Line Turn Arrow

Single Line Curve Arrow

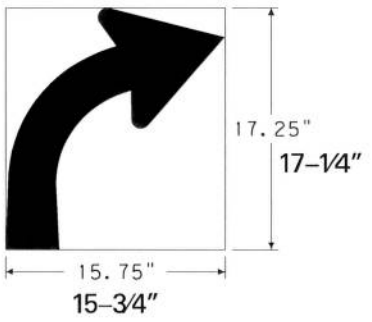


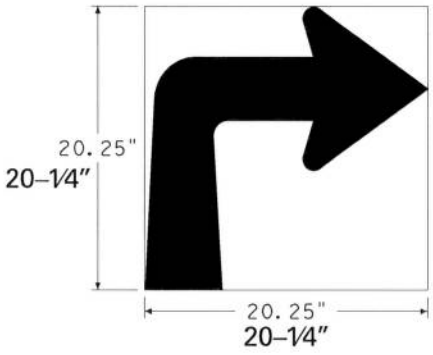
4 – 6″ CAPS



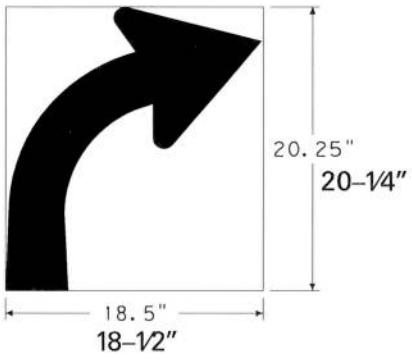


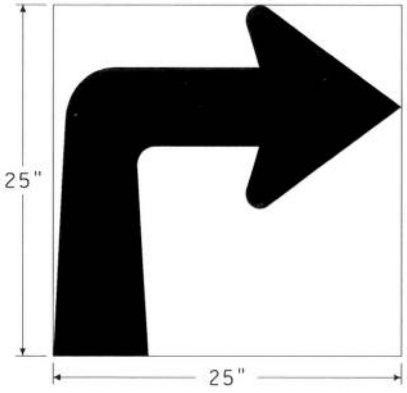
10.67″ U.C. – 8–10″ CAPS CAPS



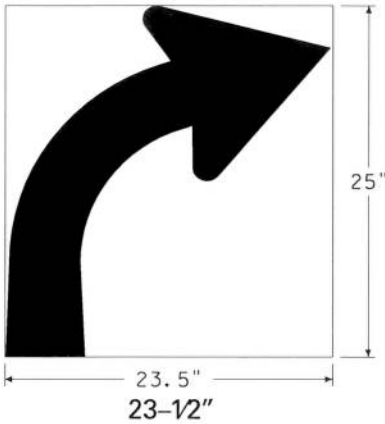


13.33″ U.C. – 12″ CAPS





15″ CAPS – 16″ U.C.



INTERSTATE

DIMENSIONS OF ARROW WHEN USED WITH VARIOUS LETTER SIZES

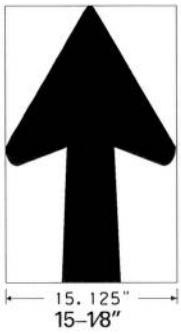
SIGN LAYOUT GUIDE
For use with Scotchlite

"A" VERTICAL or DIAGONAL ARROW

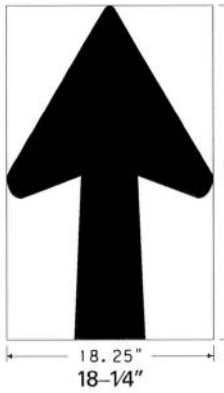
4 – 6" CAPS



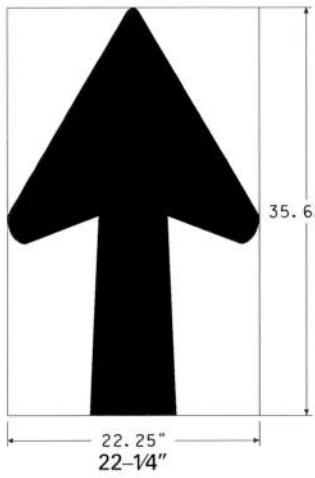
8" CAPS



10.67 U.C.
13-1/3 U.C.
10 – 12" CAPS

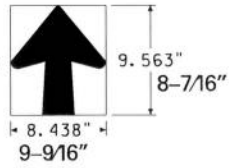


15" CAPS – 16" U.C.

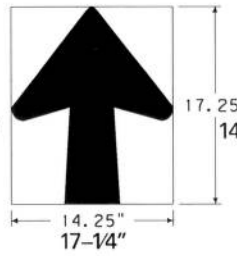


"B" VERTICAL or DIAGONAL ARROW

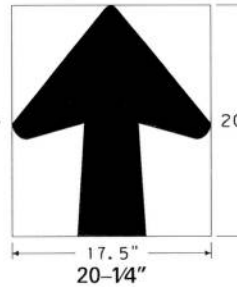
4 – 6" CAPS



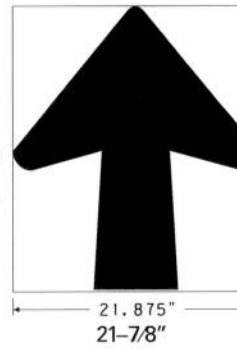
10.67 U. c.
8 – 10" CAPS



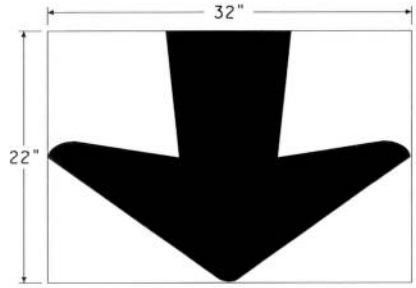
13-1/3" U.C.
12" CAP



15" CAP
16" U.C.



"C" VERTICAL DOWN ARROW



DOWN ARROW: 32" x 22"