

STRUCTURAL SIGN DATA

DESIGNATION	COLOR SCHEME		SHEETING	
	LEGEND	BACKGROUND	LEGEND	BACKGROUND
STRUCTURAL (ST)	BLACK	WHITE	OPAQUE BLACK FILM	ASTM TYPE 4
	WHITE	RED	ASTM TYPE 9 OR 11	ASTM TYPE 4
	WHITE	GREEN	ASTM TYPE 9 OR 11	ASTM TYPE 4
	WHITE	BLUE	ASTM TYPE 9 OR 11	ASTM TYPE 4
	WHITE	BROWN	ASTM TYPE 9 OR 11	ASTM TYPE 4
STRUCTURAL FLUORESCENT (STF)	BLACK	FL YELLOW	OPAQUE BLACK FILM	ASTM TYPE 9 OR 11
	BLACK	FL YELLOW GREEN	OPAQUE BLACK FILM	ASTM TYPE 9 OR 11
	BLACK	FL ORANGE	OPAQUE BLACK FILM	ASTM TYPE 9 OR 11

NOTE: WHITE LEGEND IS DIRECT APPLIED UNLESS SPECIFIED OTHERWISE.

FLAT SHEET SIGN DATA

DESIGNATION	COLOR SCHEME		SHEETING
	LEGEND	BACKGROUND	
FLAT SHEET (SH)	BLACK **	WHITE	ASTM TYPE 4 WHITE
	WHITE	BLACK **	ASTM TYPE 4 WHITE
	RED	WHITE	ASTM TYPE 4 WHITE
	WHITE	RED	ASTM TYPE 4 WHITE
	WHITE	GREEN	ASTM TYPE 4 WHITE
	GREEN	WHITE	ASTM TYPE 4 WHITE
	WHITE	BLUE	ASTM TYPE 4 WHITE
	WHITE	BROWN	ASTM TYPE 4 WHITE
	BLACK **	FL YELLOW	ASTM TYPE 9 OR 11 FL YELLOW
FLAT SHEET FLUORESCENT (SHF)	BLACK **	FL YELLOW GREEN	ASTM TYPE 9 OR 11 FL YELLOW GREEN
	BLACK **	FL ORANGE	ASTM TYPE 9 OR 11 FL ORANGE

** OPAQUE INK OR FILM

NOTE: LEGEND AND BACKGROUND COLORS ARE ACHIEVED THROUGH TRANSLUCENT INKS AND FILMS.

FLAT SHEET THICKNESS

SIGN SIZE	THICKNESS
9 SF OR LESS	0.080 IN.
OVER 9 SF BUT UNDER 16 SF	0.100 IN.
16 SF OR LARGER	0.125 IN.

GENERAL NOTES:

GROUND MOUNTED SIGNS GREATER THAN 5 FEET WIDE OR GREATER THAN 30 SQUARE FEET SHALL BE STRUCTURAL.

ALL NONSTANDARD SIGNS NOT FOUND IN THE MUTCD SHS MANUAL SHALL BE DETAILED BY THE HIGHWAY SAFETY AND TRAFFIC DIVISION OFFICE.

REFER TO STANDARD SPECIFICATION SEC 1042 FOR SHEETING, SUBSTRATE AND FABRICATION DETAILS.

FOR MOUNTING DETAILS, SEE STANDARD PLAN 903.02.



MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)



HIGHWAY SIGNING

GENERAL SIGN DATA

DATE EFFECTIVE: 1/1/2025

DATE PREPARED: 10/4/2024

903.02AQ

SHEET NO.
1 OF 8

MODOT ID LABEL DETAILS
PLACED ON THE SIGN FACE



(1) USED ON SIGNS 9 SF AND LARGER

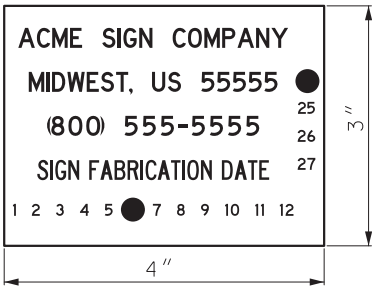


(1) USED ON SIGNS LESS THAN 9 SF

VENDOR ID LABEL DETAILS
PLACED ON THE BACK OF THE SIGN



OPTIONAL



(2)

OPTIONAL



(3)

- (1) MODOT ID LABEL DETAILS AVAILABLE FROM THE HIGHWAY SAFETY AND TRAFFIC DIVISION.
- (2) TO FACILITATE MASS PRODUCTION OF LABELS, THE FABRICATION DATE MAY BE INDICATED BY DISPLAYING NUMBERS FOR MONTHS ALONG THE BOTTOM OF THE LABEL AND NUMBERS FOR YEARS ALONG THE RIGHT SIDE OF THE LABEL. THE FABRICATION DATE WOULD BE INDICATED BY HOLE PUNCHING THE APPROPRIATE NUMBERS (OR SOME EQUIVALENT PERMANENT METHOD TO BLOCK OUT OF THE NUMBERS) FOR THE MONTH AND YEAR, BEFORE THE LABEL IS APPLIED TO THE SIGN.
- (3) INDIVIDUAL DECALS MAY BE USED TO DISPLAY THE VENDOR INFORMATION AND THE FABRICATION DATE. DECALS SHALL BE INSTALLED IN CLOSE VERTICAL PROXIMITY.
- (4) THE MODOT ID LABEL MAY BE PLACED ON THE BACK OF THE SIGN ABOVE THE VENDOR ID LABEL IF THERE IS INSUFFICIENT SPACE AVAILABLE TO DISPLAY THE ID LABEL ON THE SIGN FACE WITHOUT INTERFERING WITH THE SIGN LEGEND OR BORDER.

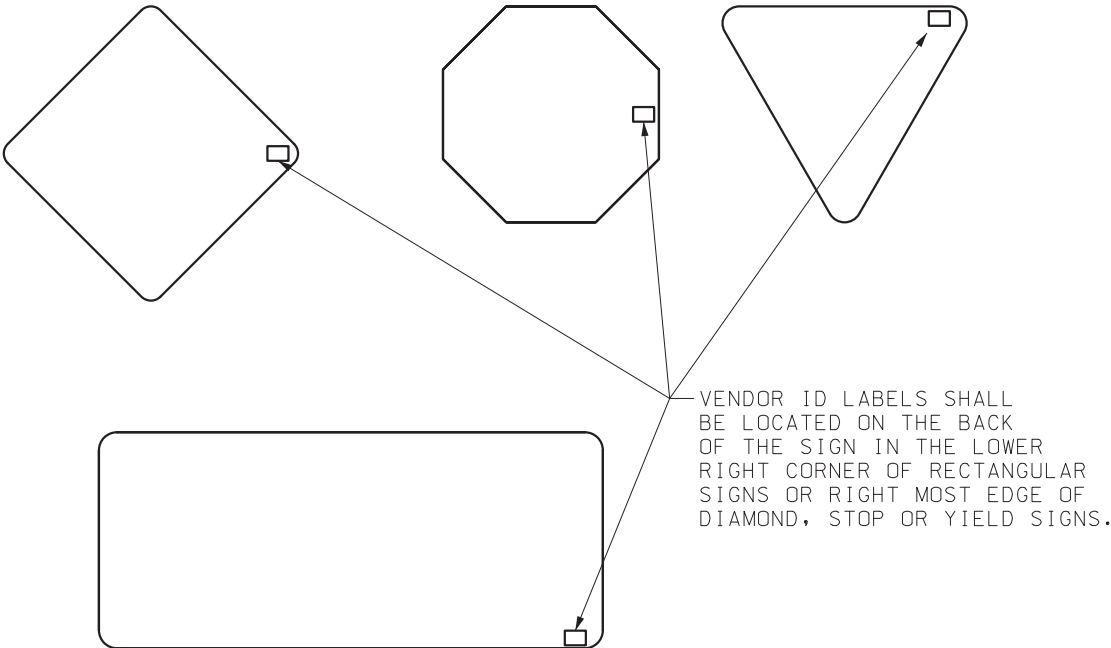
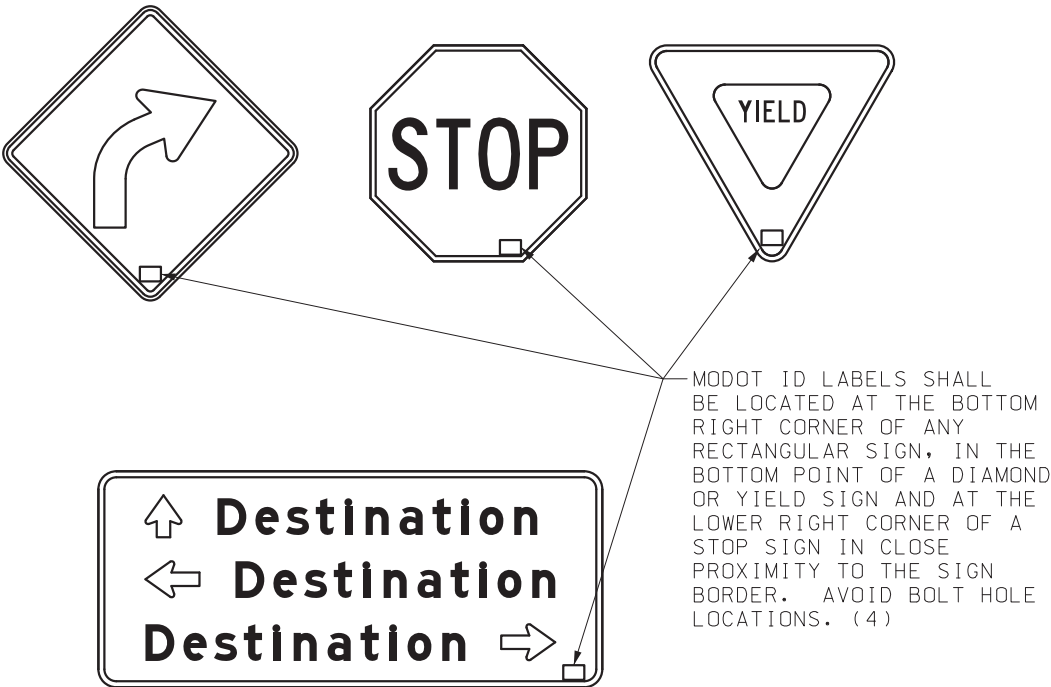
GENERAL NOTES:

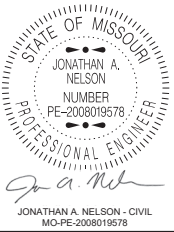
ALL DECALS SHALL BE SILK SCREEN PRINTED WITH MATCHED COMPONENT INK AND SHEETING MATERIALS TO PROVIDE A LABEL THAT HAS AN EQUAL LIFE EXPECTANCY AS THE SIGN FACE.

MODOT ID LABELS SHALL BE PRINTED ON CLEAR ELECTROCURT FILM BACKGROUND WITH BLACK INK OR IT MAY BE INCORPORATED INTO THE SILK SCREEN DETAIL AND PRINTED ALONG WITH THE SIGN FACE. IF THE LABEL IS APPLIED IN THIS MANNER THE LEGEND OF THE LABEL SHALL MATCH THE COLOR OF THE SIGN LEGEND IT IS BEING APPLIED TO. THE LABEL SHALL NOT HAVE ANY BACKGROUND COLOR OR BORDER.

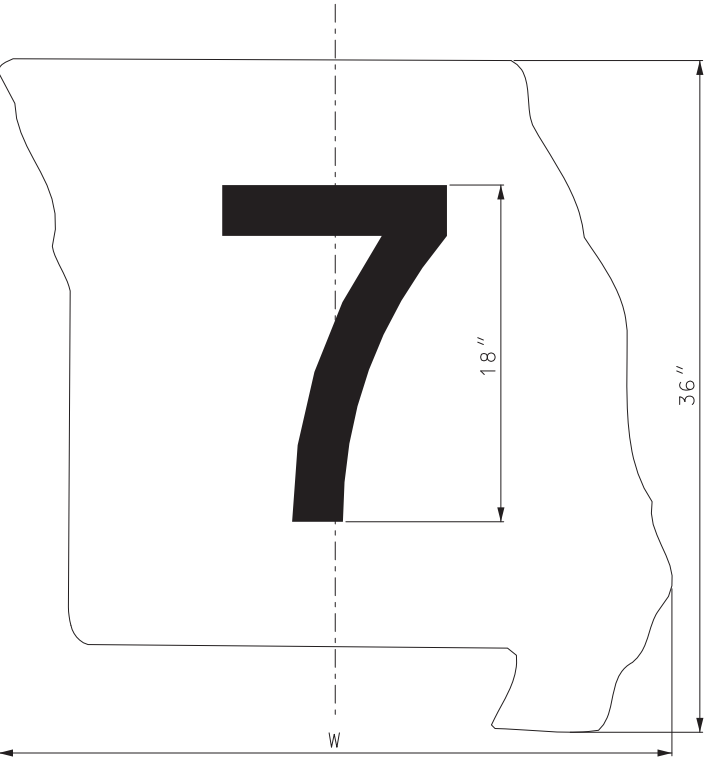
VENDOR ID LABEL SHALL CONTAIN THE COMPANY CONTACT INFORMATION (INCLUDING FULL NAME, CITY, STATE, PHONE NUMBER) AND THE SIGN FABRICATION DATE.

VENDOR ID LABEL SHALL BE PRINTED ON A WHITE BACKGROUND WITH BLACK INK AND THE LEGEND SHALL BE A MINIMUM OF 1/4".

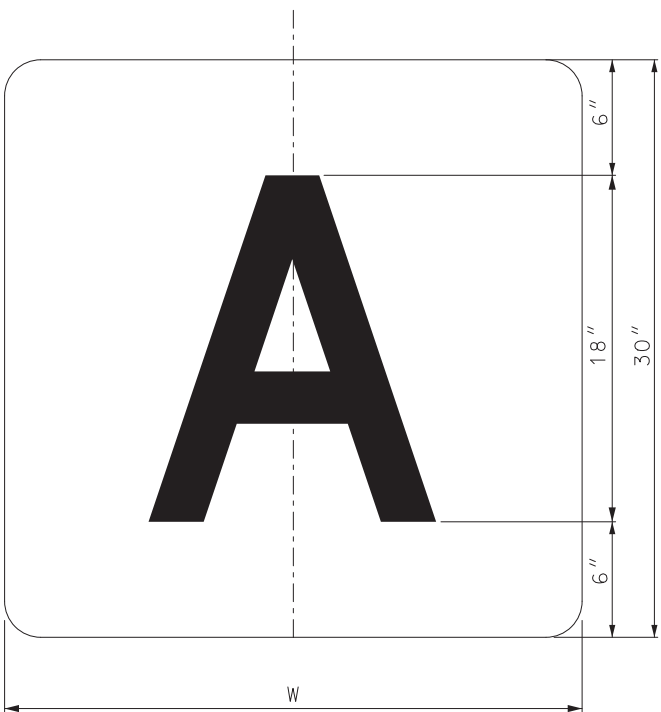


 MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION	
105 WEST CAPITOL JEFFERSON CITY, MO 65102 1-888-ASK-MODOT (1-888-275-6636)	
	HIGHWAY SIGNING GENERAL SIGN DATA
DATE EFFECTIVE: 1/1/2025 DATE PREPARED: 10/4/2024	903.02AQ
SHEET NO. 2 OF 8	

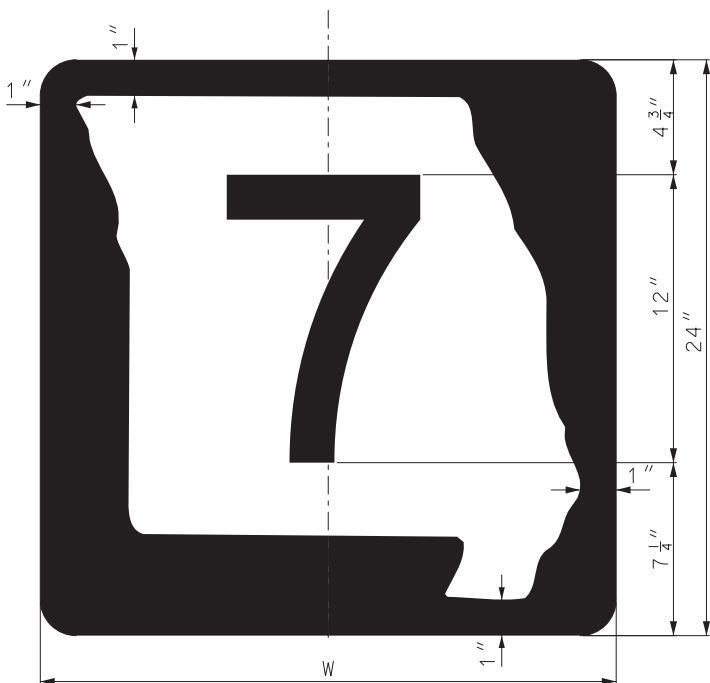
STATE NUMBER ROUTE SHIELD
GUIDE SIGN USE



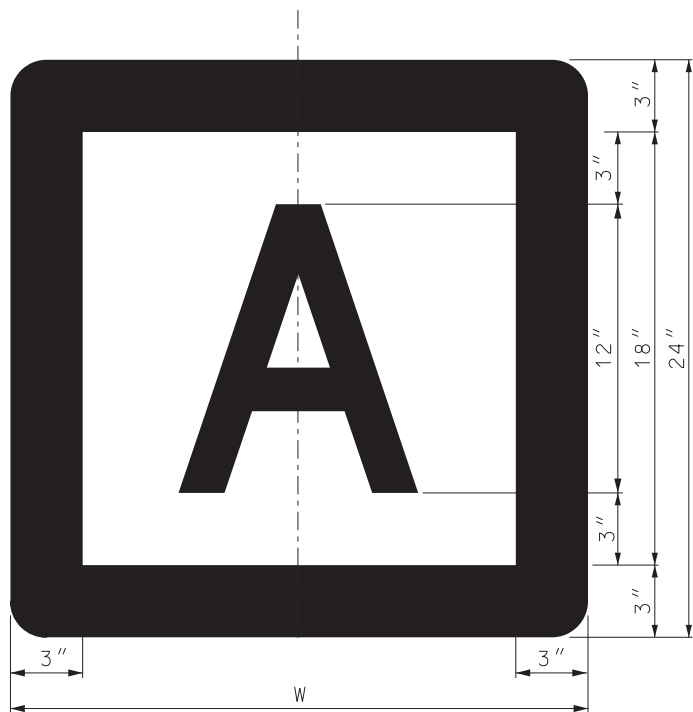
STATE LETTER ROUTE SHIELD
GUIDE SIGN USE



STATE NUMBER ROUTE SHIELD
INDEPENDENT USE



STATE LETTER ROUTE SHIELD
INDEPENDENT USE



LOCATION	ROUTE NUMBER	WIDTH (INCHES)	LEGEND FONTS
INDEPENDENT USE	1 & 2 DIGITS	24	D,C
INDEPENDENT USE	3 DIGITS	30	D,C,B
GUIDE SIGN USE	1 & 2 DIGITS	36	D,C
GUIDE SIGN USE	3 DIGITS	45	D,C,B

STATE NUMBER ROUTE SHIELD



LOCATION	NO. OF LETTERS	WIDTH (INCHES)	LEGEND FONTS
INDEPENDENT USE	1	24	D
INDEPENDENT USE	2	30	D
GUIDE SIGN USE	1	30	D
GUIDE SIGN USE	2	36	D

STATE LETTER ROUTE SHIELD

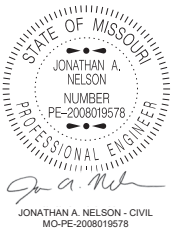


GENERAL NOTES:

- REFER TO STANDARD SPECIFICATION SEC 1042 FOR SHEETING AND SUBSTRATE DETAILS.
- FOR HOLE PUNCHING AND MOUNTING DETAILS, SEE OTHER DRAWINGS.
- FOR GENERAL SIGN DATA DETAILS, SEE OTHER DRAWINGS.
- THE MISSOURI SHAPE DETAIL MAY BE OBTAINED FROM THE HIGHWAY SAFETY AND TRAFFIC DIVISION OFFICE.
- GUIDE SIGN USE SHALL BE DIRECT APPLIED. POST MOUNTED USE SHALL BE APPLIED TO ALUMINUM SUBSTRATE.
- FOR NUMBERED ROUTES WITH MORE THAN 1 DIGIT THE LEGEND FONT MAY NEED TO BE REDUCED TO C OR B FONT.
- SEE MUTCD SHS FOR DETAILS FOR US AND INTERSTATE ROUTE SHIELDS.
- NONSTANDARD SHIELD SIZES MAY BE OBTAINED FROM THE HIGHWAY SAFETY AND TRAFFIC DIVISION OFFICE.



MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

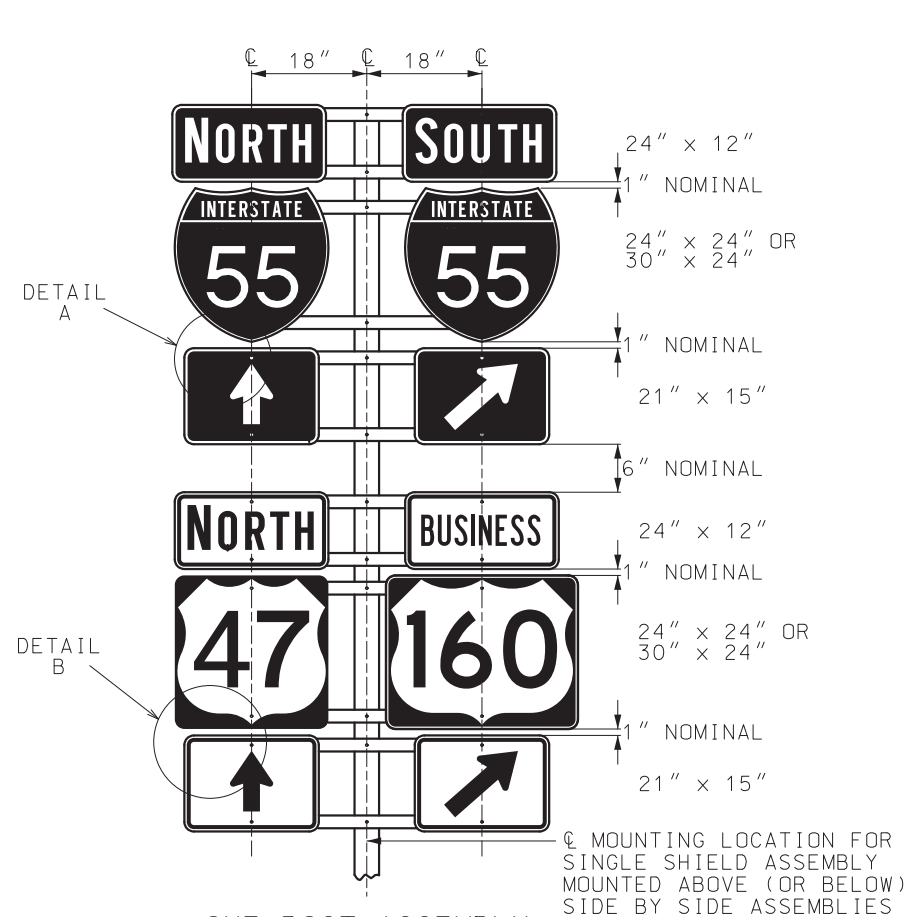


HIGHWAY SIGNING
STANDARD SHIELDS FOR
INDEPENDENT AND GUIDE
SIGN USE

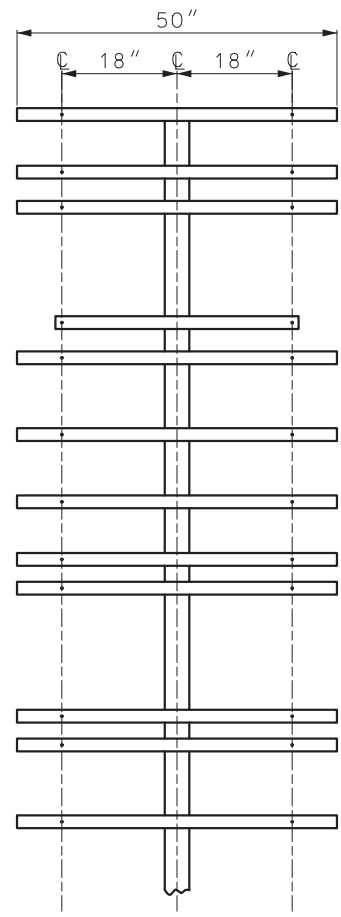
DATE EFFECTIVE:	1/1/2025
DATE PREPARED:	10/4/2024

903.02AQ

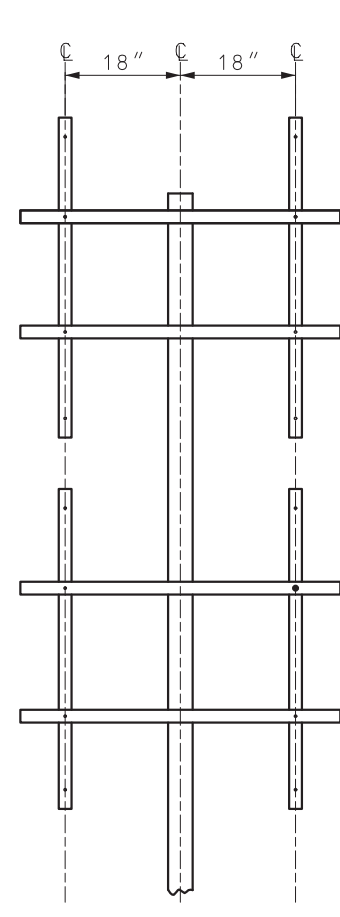
SHEET NO.
3 OF 8



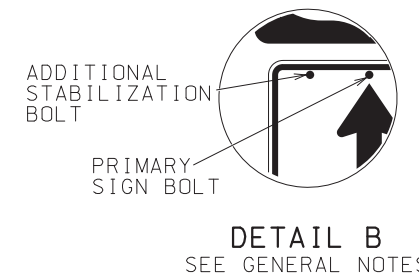
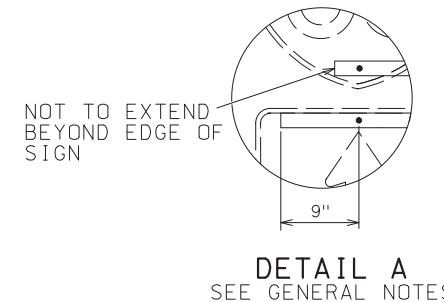
ONE POST ASSEMBLY
USE TO SUPPORT UP TO 4 ROUTE MARKERS



STANDARD BACKING
BAR LAYOUT



OPTIONAL BACKING
BAR LAYOUT



GENERAL NOTES:

DETAIL A - THE END OF THE HORIZONTAL BACKING BARS SHALL EXTEND MAXIMUM OF 9 INCHES PAST THE SIGN BOLT, BUT SHALL NOT EXTEND PAST THE EDGE OF THE SIGN.

DETAIL B - FOR SIGNS INSTALLED ON TWO PARALLEL HORIZONTAL BACKING BARS, ONE ADDITIONAL BOLT SHALL BE ADDED TO THE LEFT SIGN TO KEEP ASSEMBLY SQUARE.

BACKING BARS SHALL MEET MISSOURI STANDARD PLANS OR APPROVED PRODUCTS LIST.

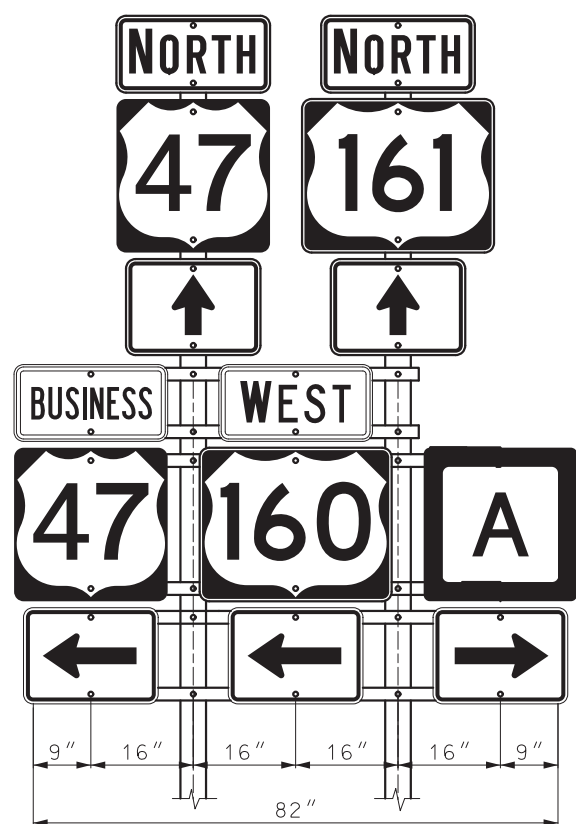
ALL BACKING BARS SHALL BE 2" x 3/8" STEEL, GALVANIZED AFTER PUNCHING. WEIGHT = 2.55 LBS. PER FOOT. HOLES IN BARS SHALL BE 3/8" AND SHALL BE PUNCHED AS SHOWN ON THIS DRAWING.

WHEN USING OPTIONAL BACKING BAR LAYOUT, VERTICAL BARS SHALL BE MOUNTED BEHIND HORIZONTAL BARS.

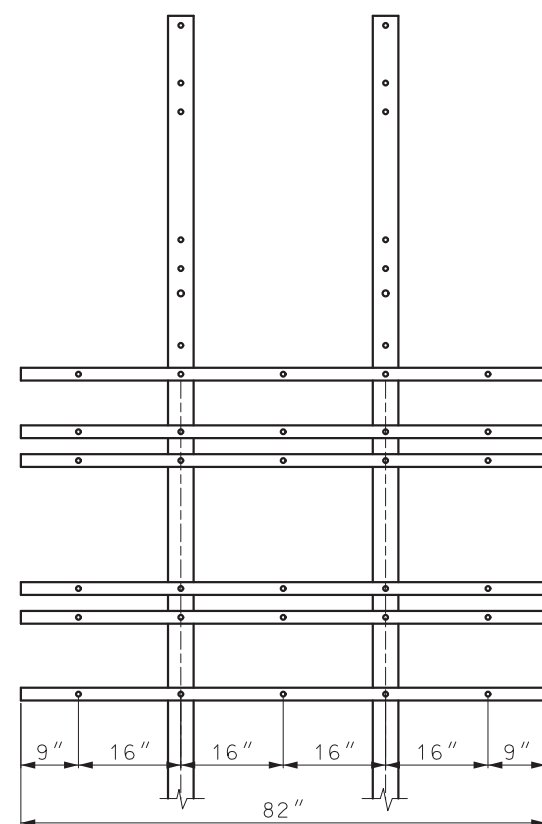
ALL SIGNS TO BE INSTALLED ALONG VERTICAL CENTERLINES.

FOR POST AND FOOTING DATA AND DETAILS OF SHIELDS AND PLAQUES, SEE OTHER DRAWINGS.

NOMINAL VERTICAL SPACING INDICATED BETWEEN SIGNS TO BE ACHIEVED BY USING THE CLOSEST AVAILABLE HOLES WHEN USING PSST.



TWO POST ASSEMBLY
USE TO SUPPORT 5 OR 6 ROUTE MARKERS



STANDARD BACKING
BAR LAYOUT

TWO POST ASSEMBLY NOTE:

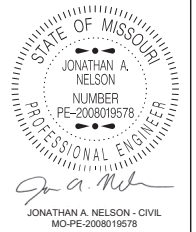
OPTIONAL BACKING BAR LAYOUT MAY BE USED WITH TWO POST ASSEMBLY.

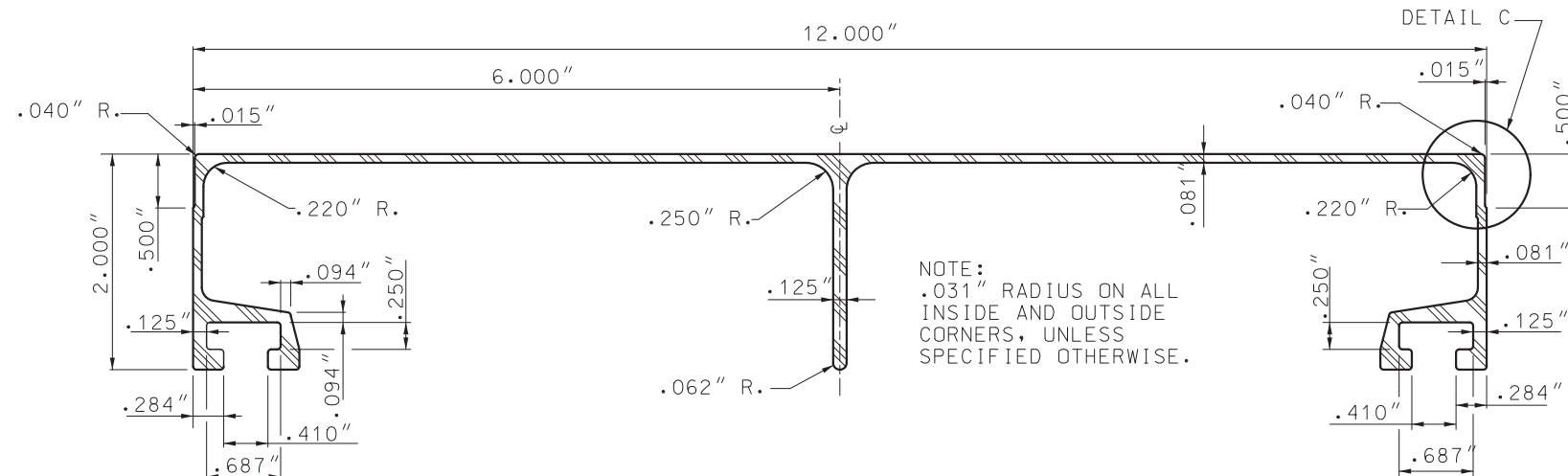
FOR 6 ROUTE SHIELD ASSEMBLY ADDITIONAL BACKING BARS ARE REQUIRED.

POST SELECTION:

SINGLE POST ASSEMBLIES SHALL USE A 4" PIPE POST OR A 2 1/2" PSST POST.

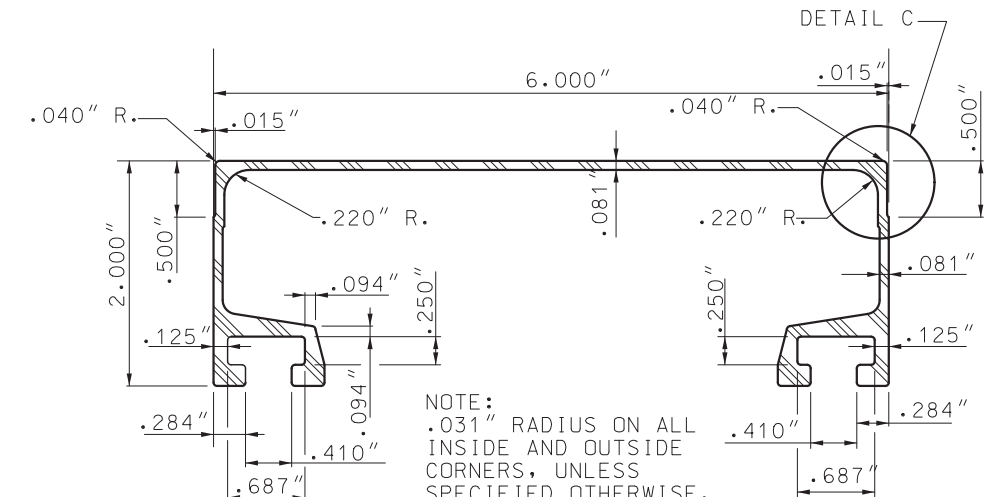
TWO POST ASSEMBLIES SHALL USE TWO 4" PIPE POSTS OR TWO 2 1/2" PSST POSTS WITH 2 1/4" PSST INSERTS AND BREAKAWAYS. (SEE STANDARD PLAN 903.03)

 MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION 105 WEST CAPITOL JEFFERSON CITY, MO 65102 1-888-ASK-MODOT (1-888-275-6636)	
 JONATHAN A. NELSON - CIVIL MO-PE-2008019578	HIGHWAY SIGNING BACKING BARS SHEET SIGN MOUNTING ROUTE SHIELD AND MARKER ASSEMBLIES
DATE EFFECTIVE: 1/1/2025 DATE PREPARED: 10/4/2024	903.02AQ SHEET NO. 4 OF 8

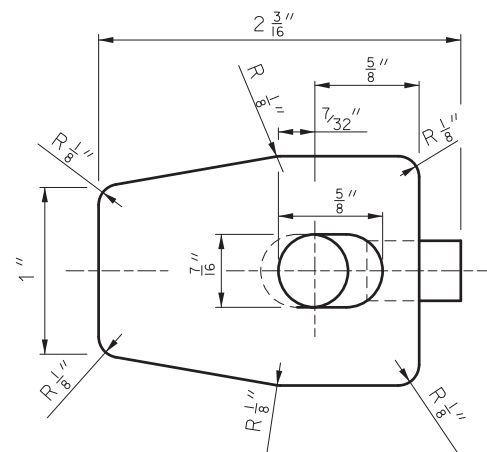


12" EXTRUDED ALUMINUM PANEL
MINIMUM WT. = 2.40 LBS./FT.

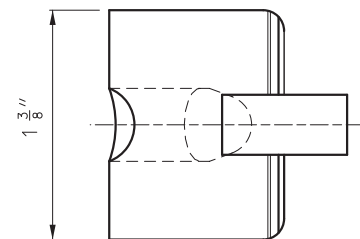
NOTE:
MINIMUM WEIGHT AND THICKNESS DIMENSIONS SHOWN.
HEAVIER PANELS MAY BE USED.



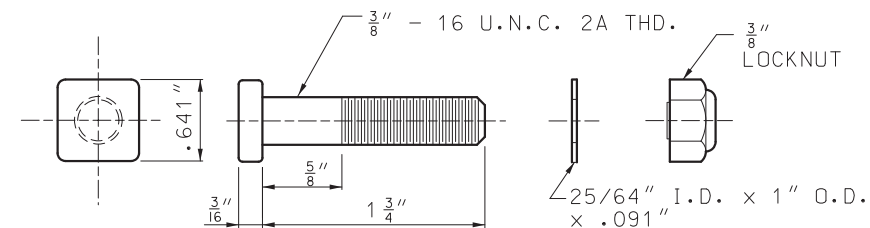
6" EXTRUDED ALUMINUM PANEL
MINIMUM WT. = 2.40 LBS./FT.



PLAN VIEW



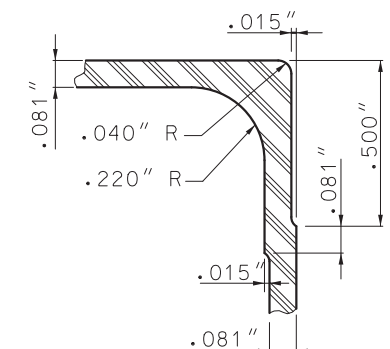
END VIEW



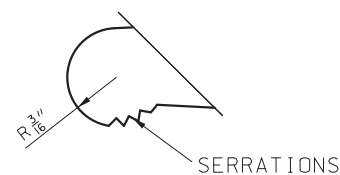
POST CLIP BOLT
WITH FLAT WASHER AND LOCKNUT

NOTE:
SQUARE BOLT HEAD SHOWN.
RECTANGULAR BOLT HEAD WITH
LEAST DIMENSION OF .641 inch MAY
BE USED.

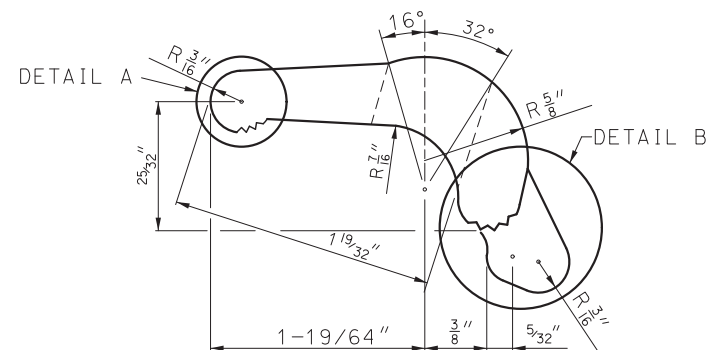
BOLT - $1\frac{3}{4}$ x $\frac{3}{8}$ ALUMINUM
HEX LOCKNUT - $\frac{3}{8}$ ALUMINUM
WASHER - ALUMINUM



DETAIL C



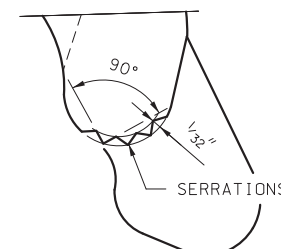
DETAIL A
ENLARGED VIEW OF
SERRATIONS



ELEVATION VIEW

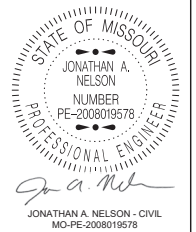
POST CLIP

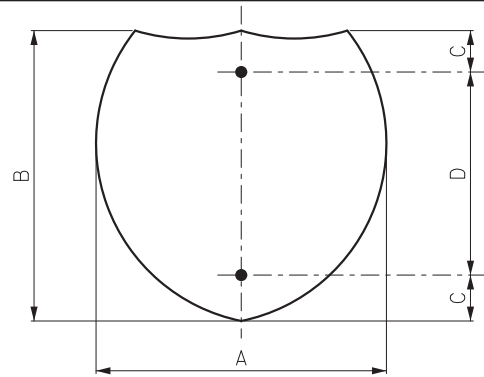
POST CLIPS SHALL BE ASTM B 108, 356-T6 ALUMINUM ALLOY.



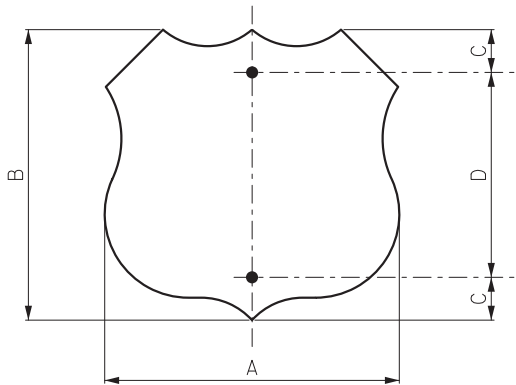
DETAIL B
ENLARGED DETAIL OF SERRATIONS

SAW GATING AS SHOWN
(APPROXIMATELY FLAT PERMISSIBLE)

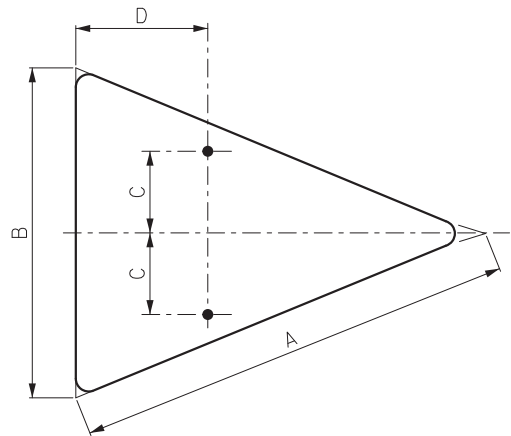
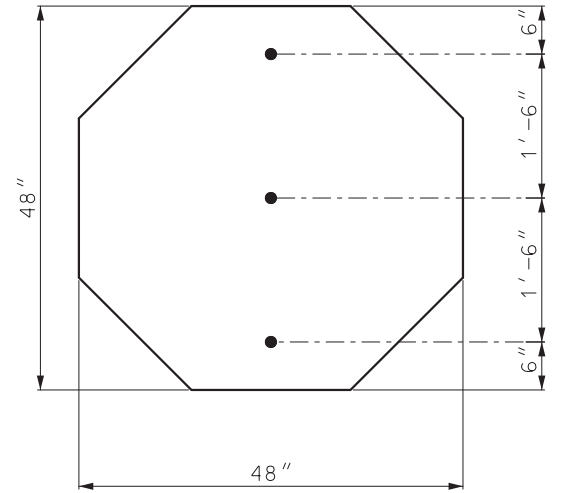
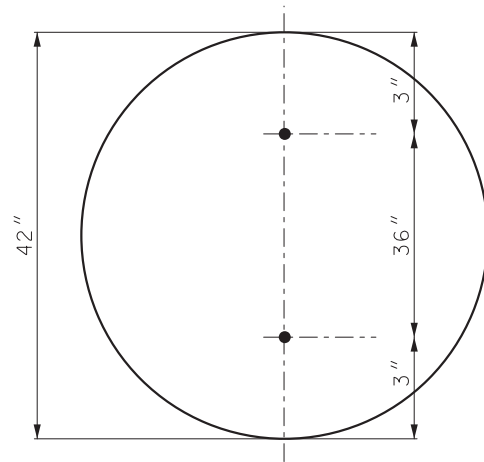
 MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION 105 WEST CAPITOL JEFFERSON CITY, MO 65102 1-888-ASK-MODOT (1-888-275-6636)		
 JONATHAN A. NELSON PE-2008019578 JONATHAN A. NELSON - CIVIL MO-PE-2008019578	HIGHWAY SIGNING EXTRUDED ALUMINUM PANEL DETAILS	
	DATE EFFECTIVE: 1/1/2025 DATE PREPARED: 10/4/2024	903.02AQ



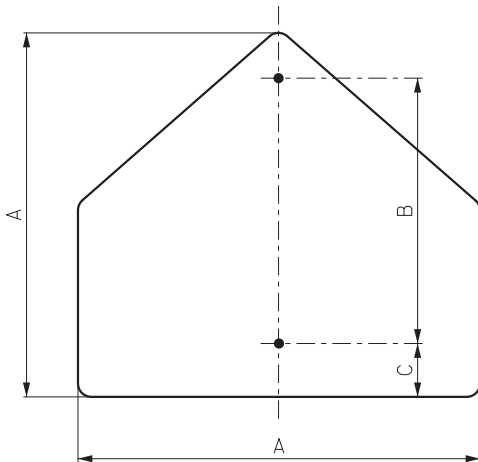
DIMENSIONS (IN.)			
A	B	C	D
24	24	3	18
30	24	3	18
36	36	6	24
45	36	6	24



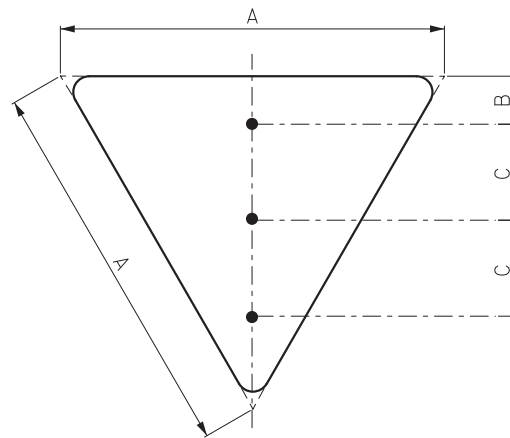
DIMENSIONS (IN.)			
A	B	C	D
24	24	3	18
30	24	3	18
36	36	6	24
45	36	6	24



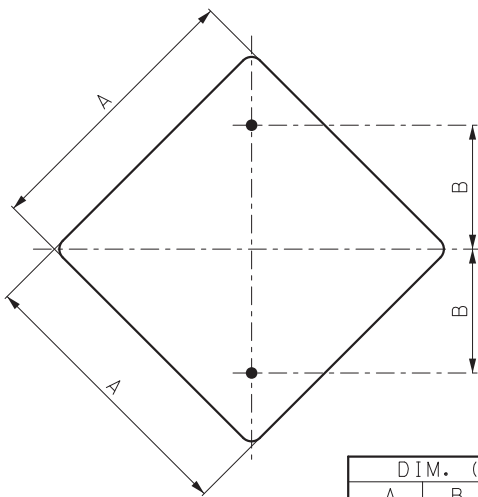
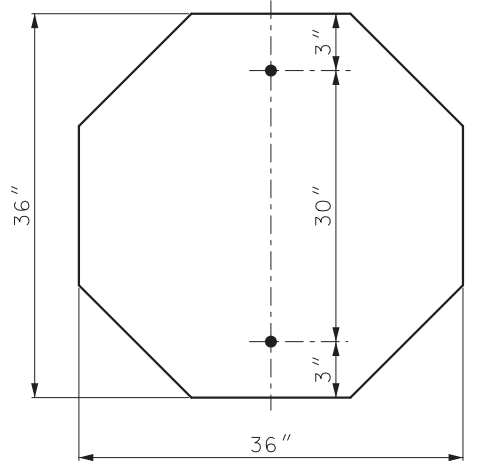
DIMENSIONS (IN.)				
A	B	C	D	RADIUS
40	30	7.5	12	1.875
48	36	9	15	2.25



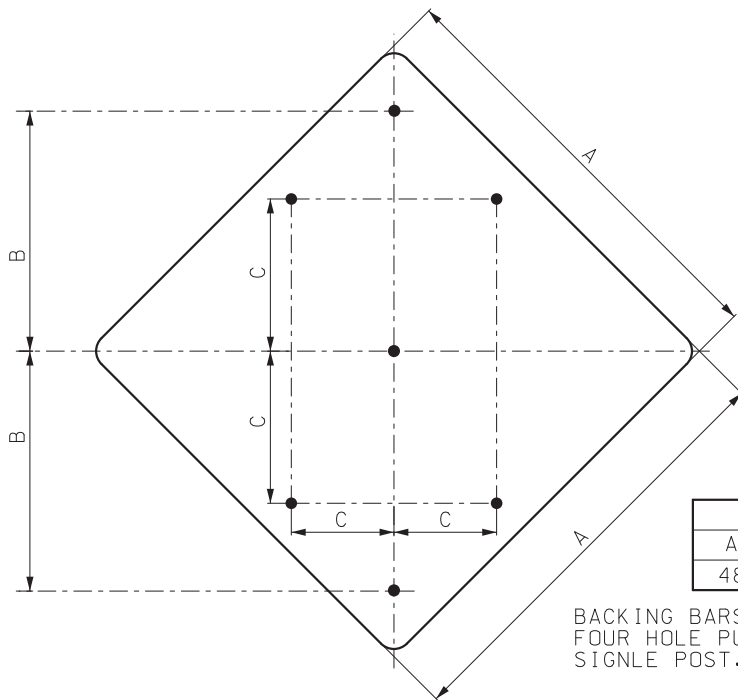
DIMENSIONS (IN.)			
A	B	C	RADIUS
36	24	3	2.25



DIMENSIONS (IN.)			
A	B	C	RADIUS
48	6	12	3
60	8	15	4



DIM. (IN.)		
A	B	RADIUS
18	9	1.5
24	12	1.5
30	15	1.875
36	18	2.25



DIMENSIONS (IN.)			
A	B	C	RADIUS
48	24	15	3

BACKING BARS ONLY REQUIRED FOR FOUR HOLE PUNCH INSTALLATION ON SIGNLE POST.

GENERAL NOTES:

SIGNS WITH FOUR OR MORE HOLES REQUIRE BACKING BARS OR MULTIPLE POSTS.

HOLES IN SIGNS SHALL BE $\frac{3}{8}$ " AND PUNCHED AS SHOWN ON THIS DRAWING.

FLAT SHEET FOR SIGNS SHALL BE THE FOLLOWING THICKNESS:

9 SQUARE FEET OF LESS = 0.080 IN.

OVER 9 BUT UNDER 16 SQUARE FEET = 0.100 IN.

16 SQUARE FEET OR LARGER = 0.125 IN.

FOR MOUNTING DETAILS, SEE OTHER DRAWINGS.



MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)



JONATHAN A. NELSON
NUMBER
PE-2008019578
PROFESSIONAL ENGINEER

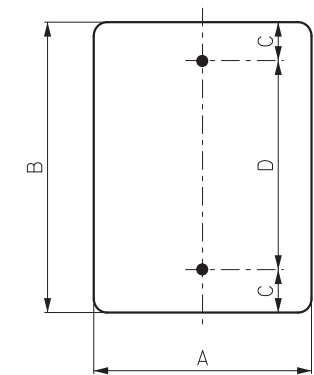
HIGHWAY SIGNING

HOLE PUNCHING

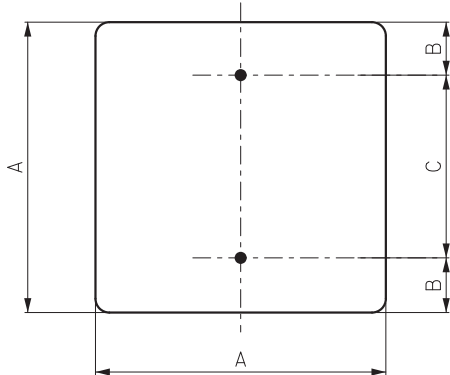
DATE EFFECTIVE: 1/1/2025
DATE PREPARED: 10/4/2024

903.02AQ

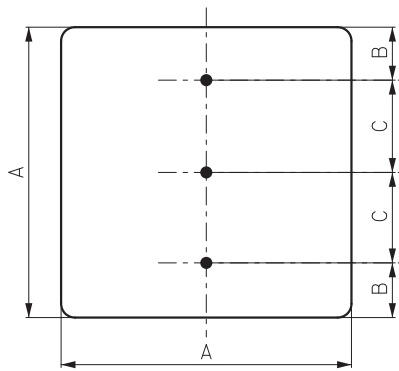
SHEET NO.
6 OF 8



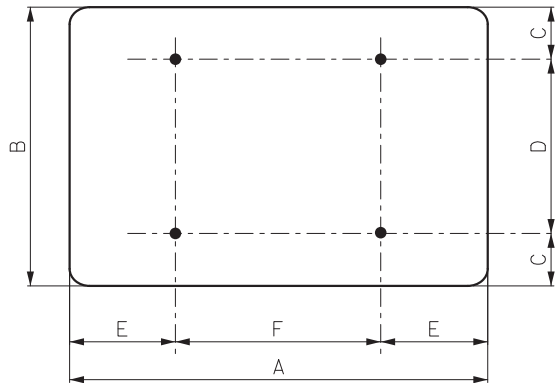
DIMENSIONS (IN.)				
A	B	C	D	RADIUS
4	16	0.75	14.5	SQ
6	12	1.5	9	1
9	12	3.5	5	1.5
9	15	3.75	7.5	1.5
12	18	3	12	1.5
12	24	3	18	1.5
12	36	3	30	1.5
12	48	3	42	1.5
15	21	3	15	1.5
18	24	3	18	1.5
24	30	3	24	1.5
24	36	3	30	1.5
30	36	3	30	1.875
30	42	3	36	1.875
30	48	6	36	1.875



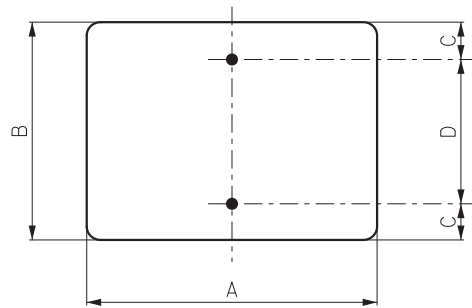
DIMENSIONS (IN.)			
A	B	C	RADIUS
12	1.5	9	1.5
18	3	12	1.5
24	3	18	1.5
30	3	24	1.875
36	6	24	2.25



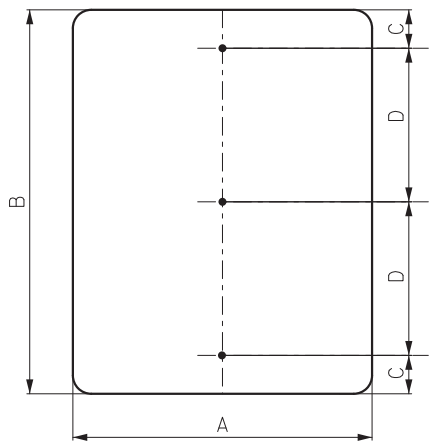
DIMENSIONS (IN.)			
A	B	C	RADIUS
48	6	18	3



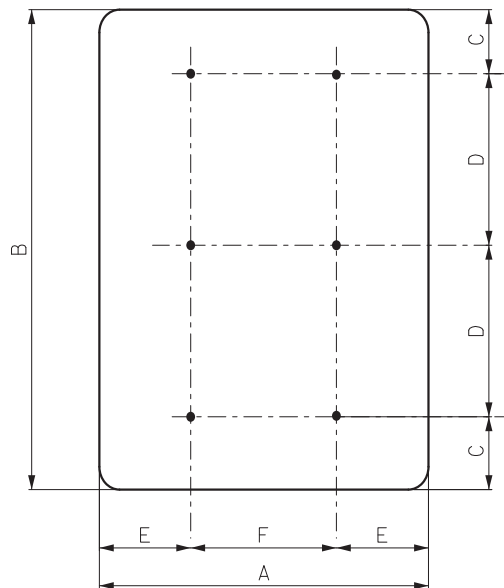
DIMENSIONS (IN.)						
A	B	C	D	E	F	RADIUS
48	12	1.5	9	9	30	1.5
48	18	1.5	15	9	30	1.5
48	24	3	18	9	30	1.5
48	30	3	24	9	30	1.875
48	36	6	24	9	30	2.25
54	18	1.5	15	9	36	1.5
60	12	1.5	9	12	36	1.5
60	18	1.5	15	12	36	1.5
60	24	3	18	12	36	1.5
60	30	3	24	12	36	1.875
60	36	6	24	12	36	2.25
60	48	6	36	12	36	3
72	36	6	24	12	48	2.25
72	48	6	36	12	48	3



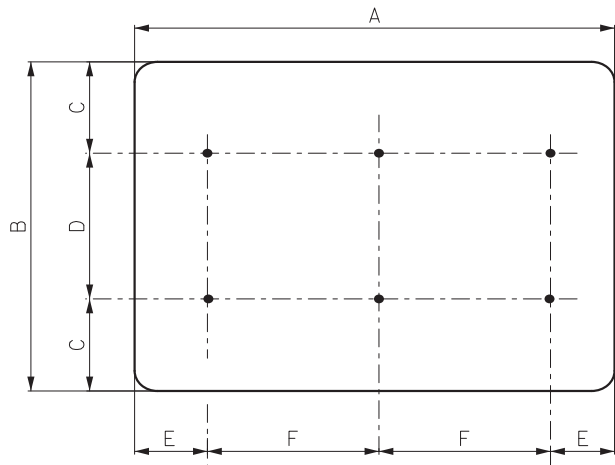
DIMENSIONS (IN.)				
A	B	C	D	RADIUS
4	5	1.5	2	1.5
12	9	1.5	6	1.5
18	9	1.5	6	1.5
18	12	1.5	9	1.5
21	15	1.5	12	1.5
24	8	1.5	5	1.5
24	12	1.5	9	1.5
24	18	3	12	1.5
30	8	1.5	5	1.5
30	12	1.5	9	1.5
30	18	3	12	1.5
30	24	3	18	1.5
36	8	1.5	5	1.5
36	12	1.5	9	1.5
36	18	3	12	1.5
36	24	3	18	1.5
36	30	3	24	1.875
42	8	1.5	5	1.5
42	18	3	12	1.5
42	24	3	18	1.5
42	30	3	24	1.875
42	36	3	30	2.25
48	8	1.5	5	1.5



DIMENSIONS (IN.)				
A	B	C	D	RADIUS
4	72	6	30	SQ
12	72	6	30	1.5
18	60	6	24	1.5
24	48	6	18	1.5
36	48	6	18	2.25
36	60	6	24	2.25
36	72	6	30	2.25

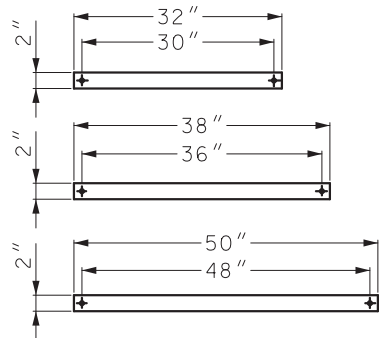


DIMENSIONS (IN.)						
A	B	C	D	E	F	RADIUS
48	60	6	24	9	30	3
48	72	6	30	9	30	3
48	84	6	36	9	30	3
48	96	6	42	9	30	3



DIMENSIONS (IN.)						
A	B	C	D	E	F	RADIUS
84	24	3	18	12	30	3
96	48	6	36	16	32	3

DIMENSIONS (IN.) FOR SIGNS REQUIRING NO HOLE PUNCHING		
A	B	RADIUS
66	18	1.5
72	18	1.5
78	18	1.5
84	18	1.5
90	18	1.5
96	18	1.5
36	78	2.25



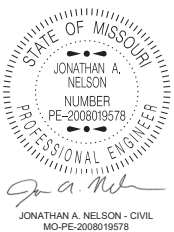
BACKING BARS FOR SINGLE POST SIGNS

GENERAL NOTES:
REFER TO GENERAL NOTES ON SHEET 6 OF 8.



MISSOURI HIGHWAYS AND TRANSPORTATION
COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

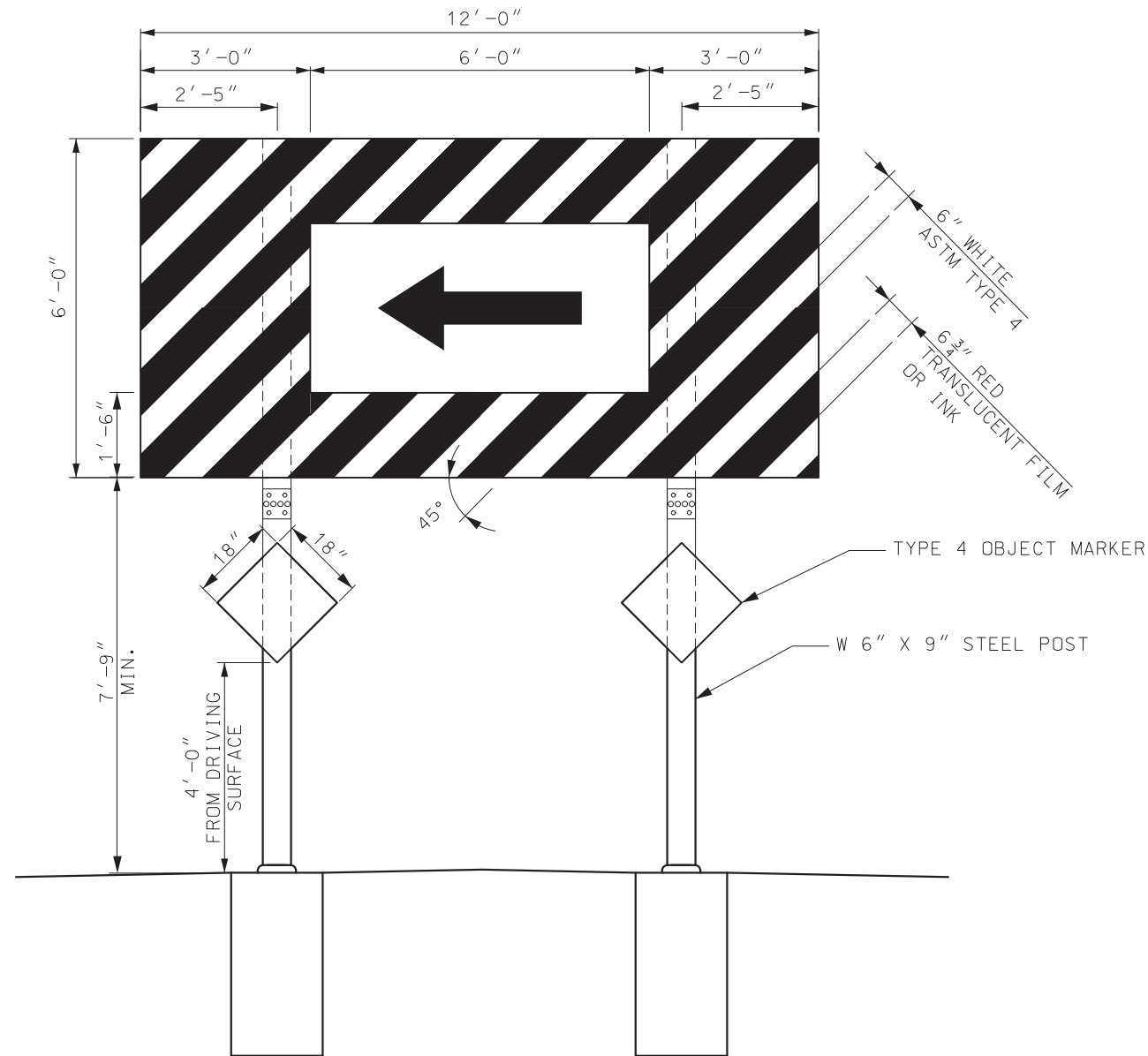


HIGHWAY SIGNING
HOLE PUNCHING

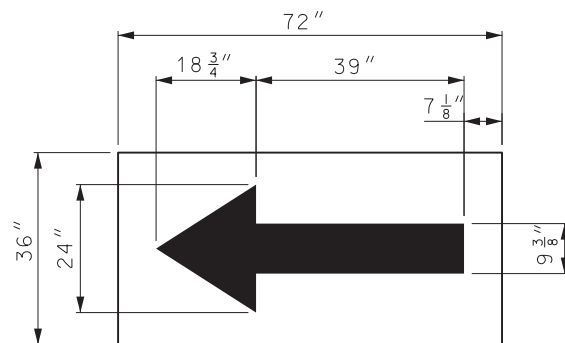
DATE EFFECTIVE: 1/1/2025
DATE PREPARED: 10/4/2024

903.02AQ

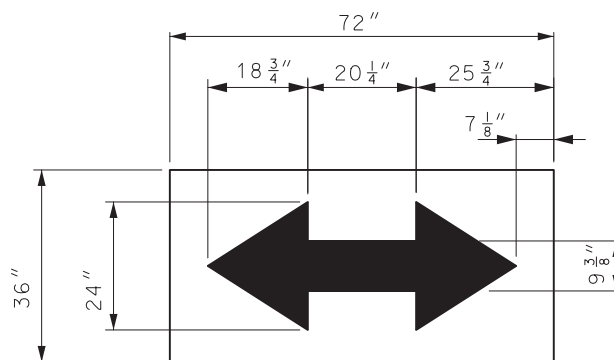
SHEET NO.
7 OF 8



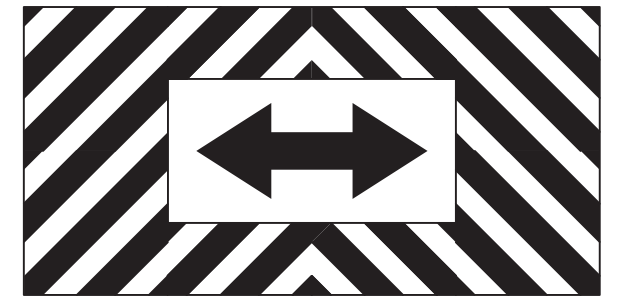
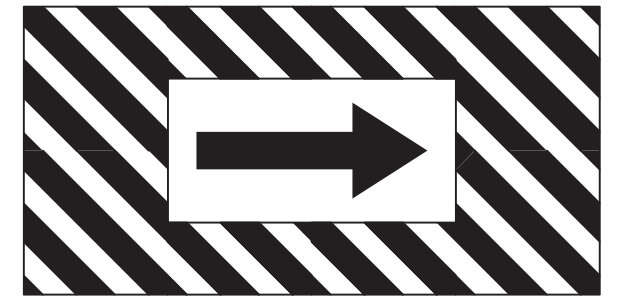
SEE STANDARD PLAN 903.03
FOR MOUNTING HEIGHT ON UNEVEN GROUND



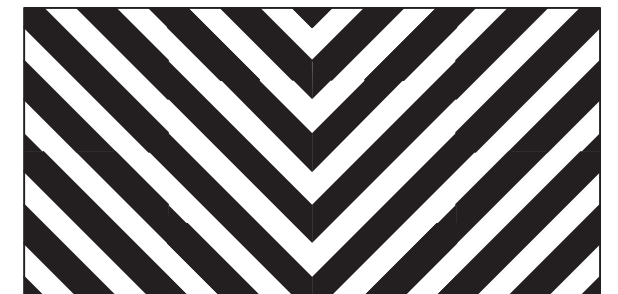
W1-6



W1-7



T-INTERSECTION



DEAD END

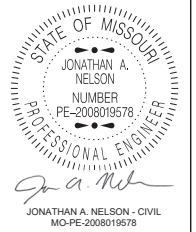
GENERAL NOTES:

SEE STANDARD PLAN 903.03 FOR WIDE FLANGE
INSTALLATION.

SIGN BARRICADE SHALL BE CONSTRUCTED AS A
STRUCTURAL (ST) SIGN.

DIRECTIONAL ARROWS SHALL BE FLAT SHEET FLUORESCENT
(SHF) AND CONSIDERED INCIDENTAL TO THE SIGN.

ALL REFLECTORIZED SURFACES SHALL BE RETROREFLECTIVE
SHEETING IN ACCORDANCE WITH SEC 1042.

 MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION	
105 WEST CAPITOL JEFFERSON CITY, MO 65102 1-888-ASK-MODOT (1-888-275-6636)	
 JONATHAN A. NELSON NUMBER PE-2008019578 PROFESSIONAL ENGINEER	HIGHWAY SIGNING SIGN BARRICADE
DATE EFFECTIVE: 1/1/2025 DATE PREPARED: 10/4/2024	903.02AQ
SHEET NO. 8 OF 8	