

MAD WITH: NA

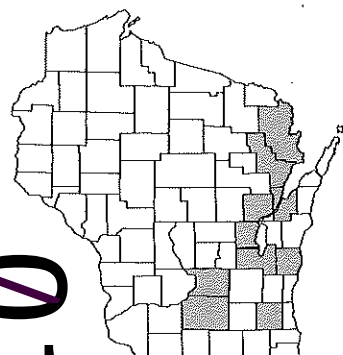
PROJECT ID: 1000-20-79

COUNTY: STATEWIDE

FEBRUARY 2022
ORDER OF SHEETS

- Section No. 1 Title
- Section No. 2 Typical Sections and Details
- Section No. 3 Estimate of Quantities
- Section No. 3 Miscellaneous Quantities
- ~~Section No. 4 Right of Way Plat~~
- ~~Section No. 5 Plan and Profile~~
- Section No. 6 Standard Detail Drawings
- Section No. 7 Sign Plates
- ~~Section No. 8 Structure Plans~~
- ~~Section No. 9 Computer Earthwork Data~~
- ~~Section No. 9 Cross Sections~~

TOTAL SHEETS = 94



01

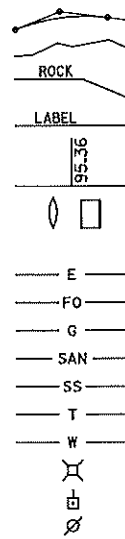
DESIGN DESIGNATION

- A.A.D.T. =
- A.A.D.T. =
- D.H.V. =
- D.D. =
- T. =
- DESIGN SPEED =
- ESALS =

CONVENTIONAL SYMBOLS

- PLAN
- CORPORATE LIMITS
- PROPERTY LINE
- LOT LINE
- LIMITED HIGHWAY EASEMENT
- EXISTING RIGHT OF WAY
- PROPOSED OR NEW R/W LINE
- SLOPE INTERCEPT
- REFERENCE LINE
- EXISTING CULVERT
- PROPOSED CULVERT (Box or Pipe)
- COMBUSTIBLE FLUIDS
- MARSH AREA
- WOODED OR SHRUB AREA

- PROFILE
- GRADE LINE
- ORIGINAL GROUND
- MARSH OR ROCK PROFILE (To be noted as such)
- SPECIAL DITCH
- GRADE ELEVATION
- CULVERT (Profile View)
- UTILITIES
- ELECTRIC
- FIBER OPTIC
- GAS
- SANITARY SEWER
- STORM SEWER
- TELEPHONE
- WATER
- UTILITY PEDESTAL
- POWER POLE
- TELEPHONE POLE



STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

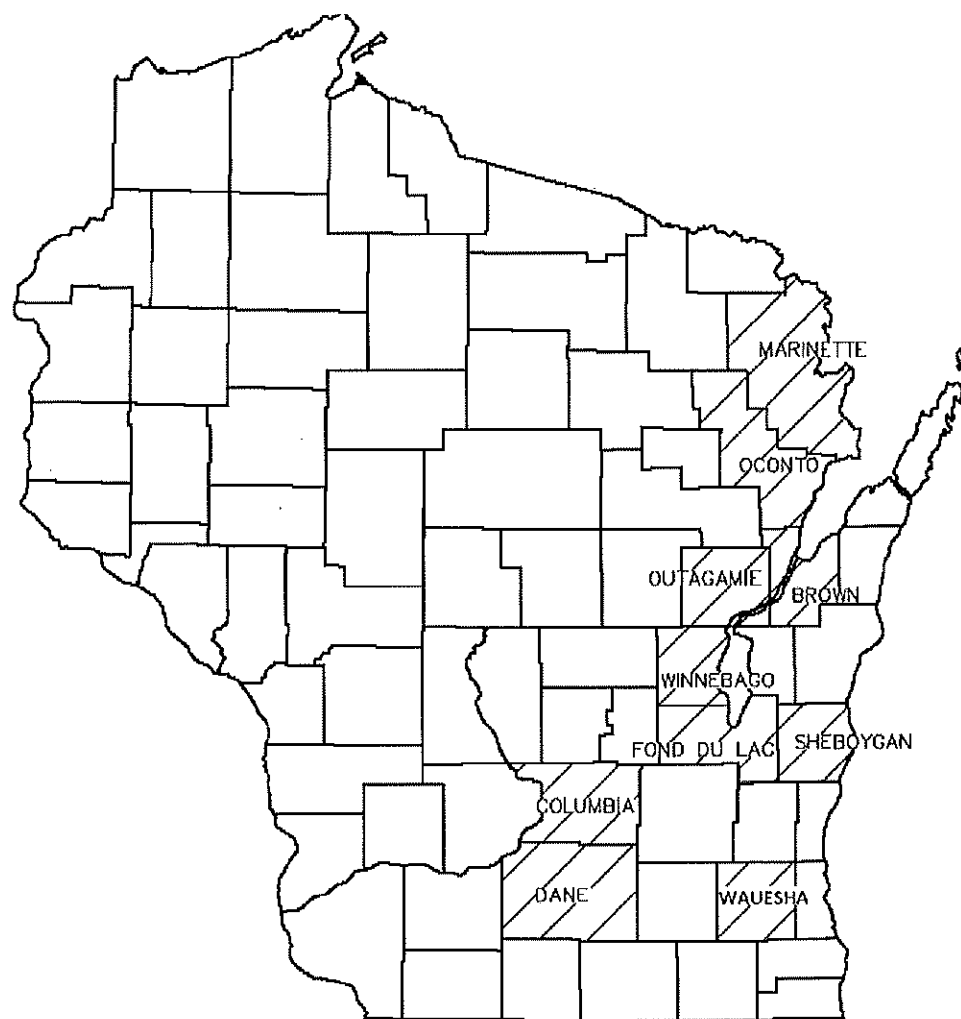
PLAN OF PROPOSED IMPROVEMENT

STATEWIDE TYPE I SIGN REPLACEMENT

LOCATIONS ON STN PER ANNUAL PLAN

VAR HWY STATEWIDE

STATE PROJECT NUMBER
1000-20-79



LAYOUT

SCALE 0

TOTAL NET LENGTH OF CENTERLINE =

HORIZONTAL POSITIONS SHOWN ON THIS PLAN ARE WISCONSIN COUNTY COORDINATES, COUNTY COUNTY, NAD83 (YEAR), IN U.S. SURVEY FEET. VALUES ARE GRID COORDINATES, GRID BEARINGS, AND GRID DISTANCES. GRID DISTANCES MAY BE USED AS GROUND DISTANCES.

STATE PROJECT	FEDERAL PROJECT	
	PROJECT	CONTRACT
1000-20-79		

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

PREPARED BY

Surveyor _____
 Designer JEANNE SILVER
 Project Manager JEANNE SILVER
 Regional Examiner _____
 Regional Supervisor MATT RAUCH

APPROVED FOR THE DEPARTMENT

DATE: 10-26-2021 *Matt Rauch*
(Signature)

E

GENERAL NOTES

THERE ARE UTILITY FACILITIES WITHIN THE PROJECT AREA THAT ARE NOT SHOWN ON THE PLANS, COORDINATE CONSTRUCTION ACTIVITIES WITH A CALL TO DIGGERS HOTLINE AND/OR A DIRECT CALL TO THE UTILITIES THAT HAVE FACILITIES IN THE AREA. NOT ALL UTILITIES ARE MEMBERS OF DIGGERS HOTLINE.

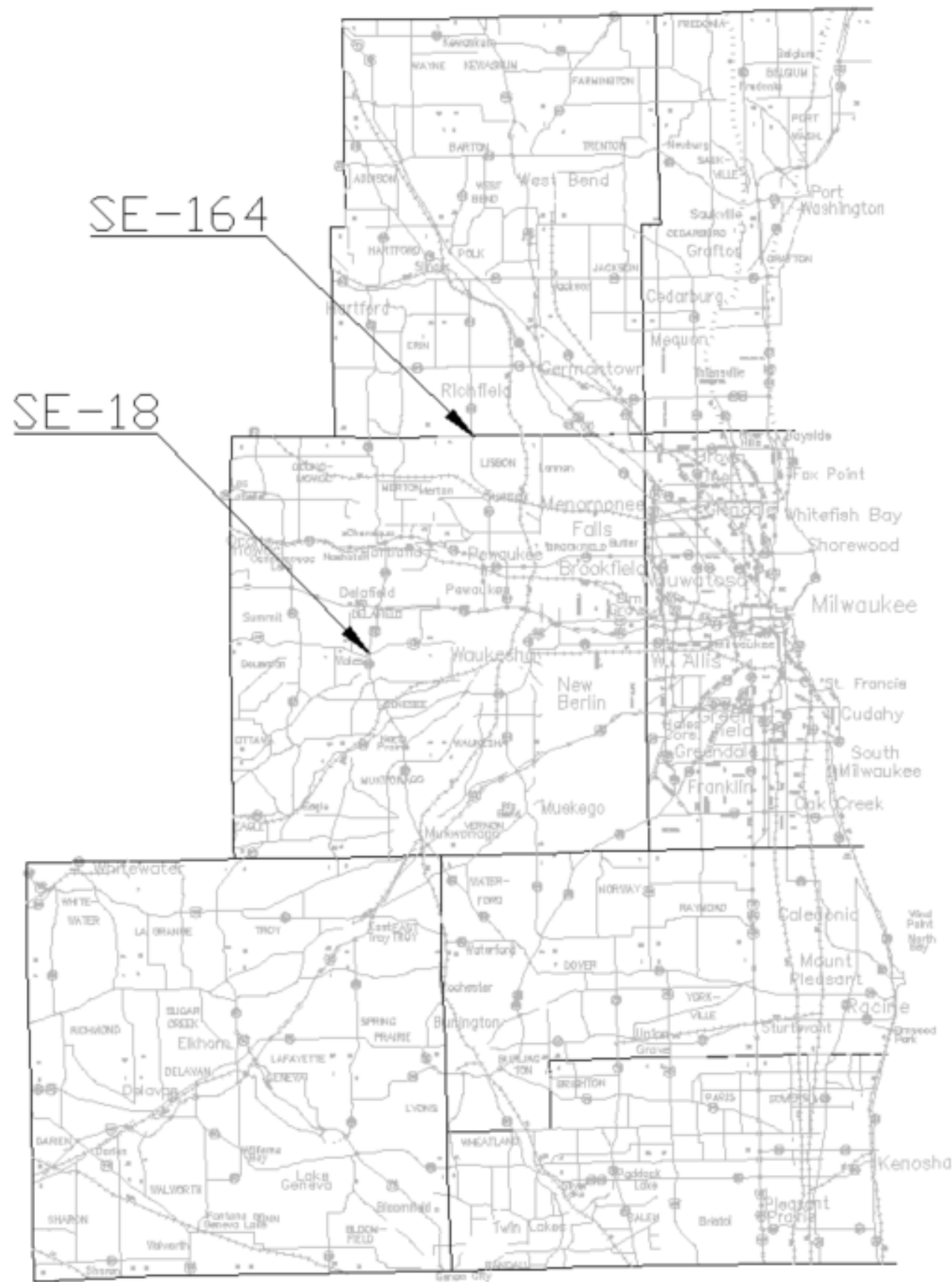


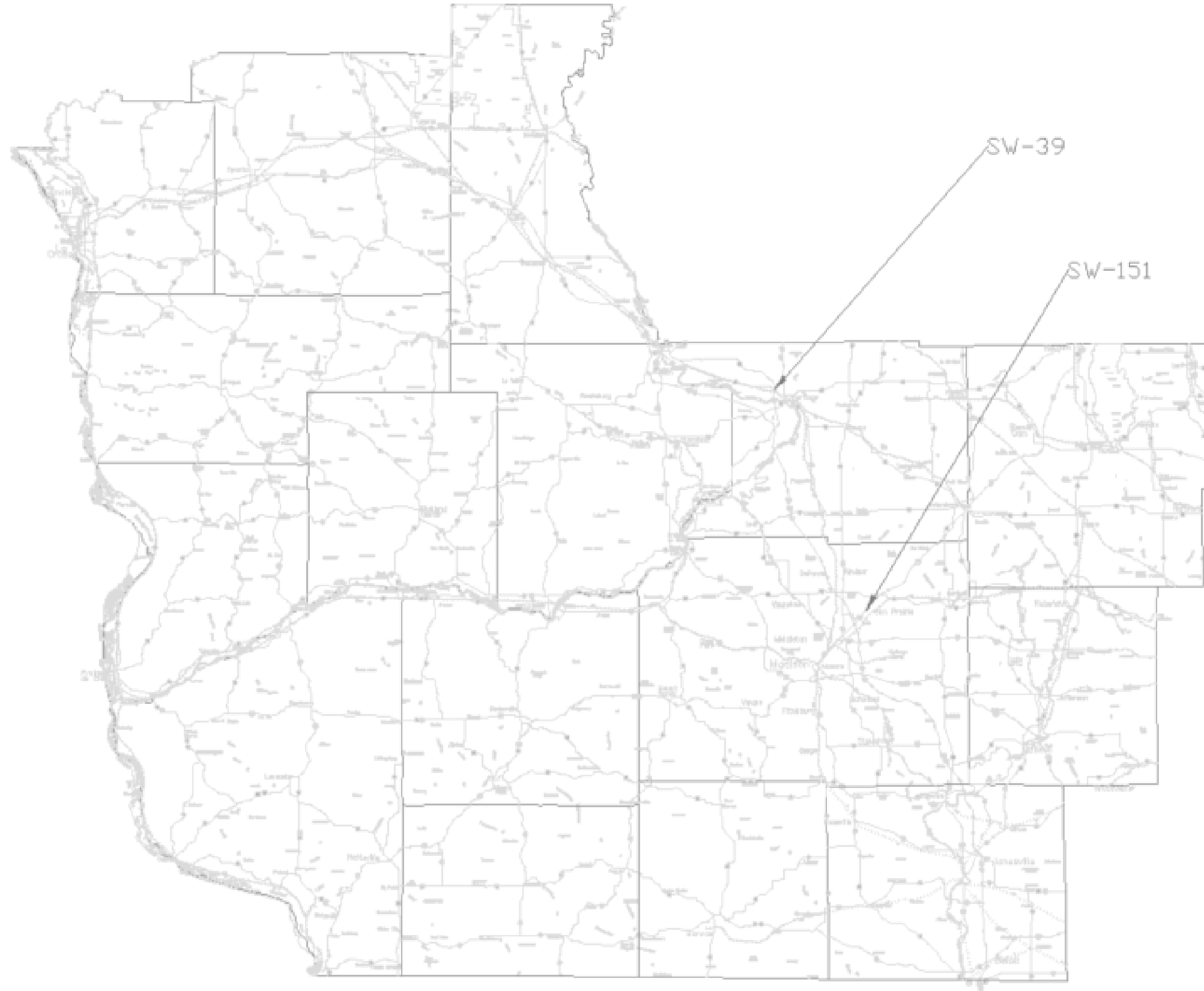
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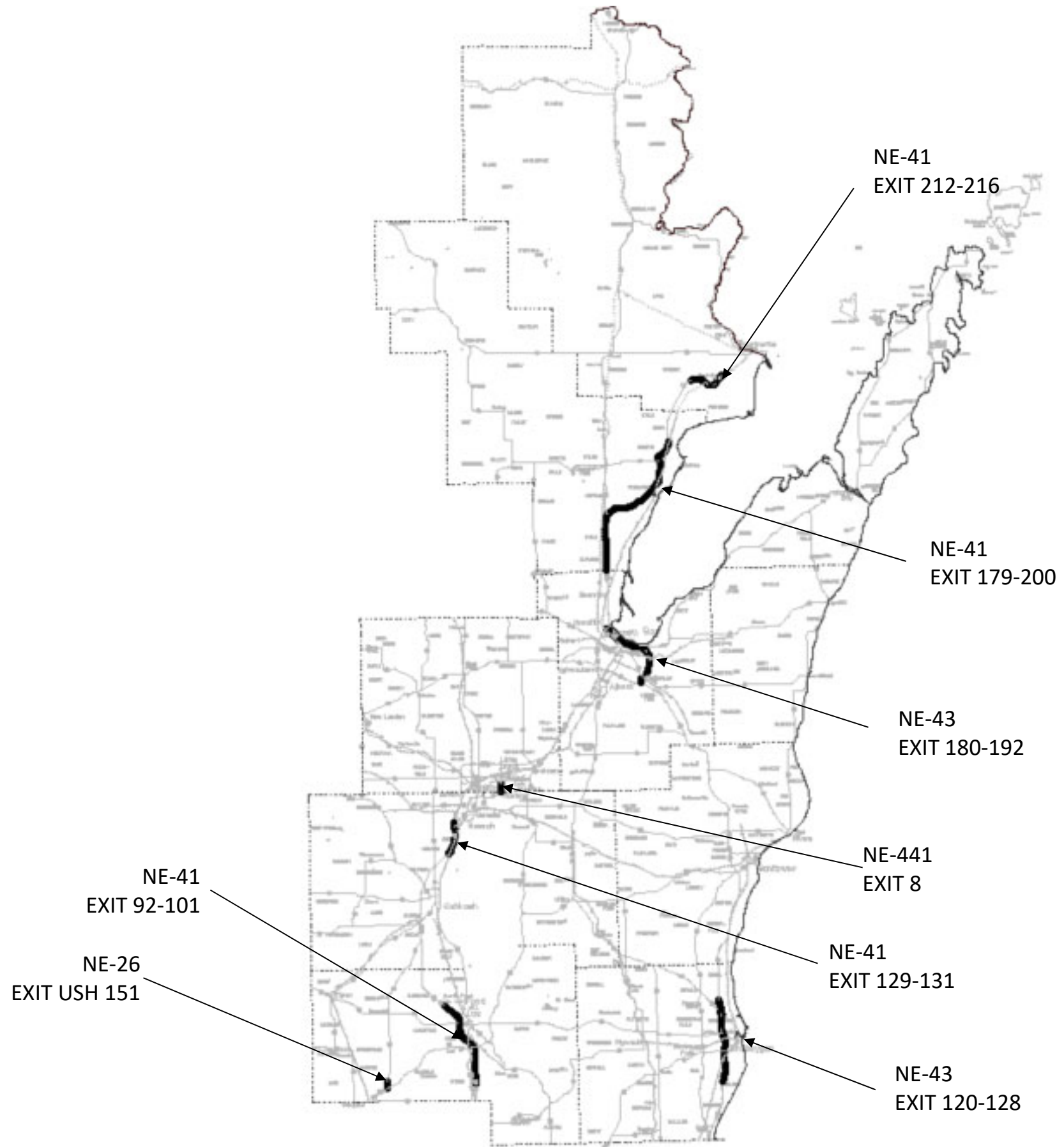
2

JEANNIE SILVER
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608-246-5408

RYAN MAYER
STATE MARKING ENGINEER
ryan.mayer@dot.wi.gov
608-246-3810

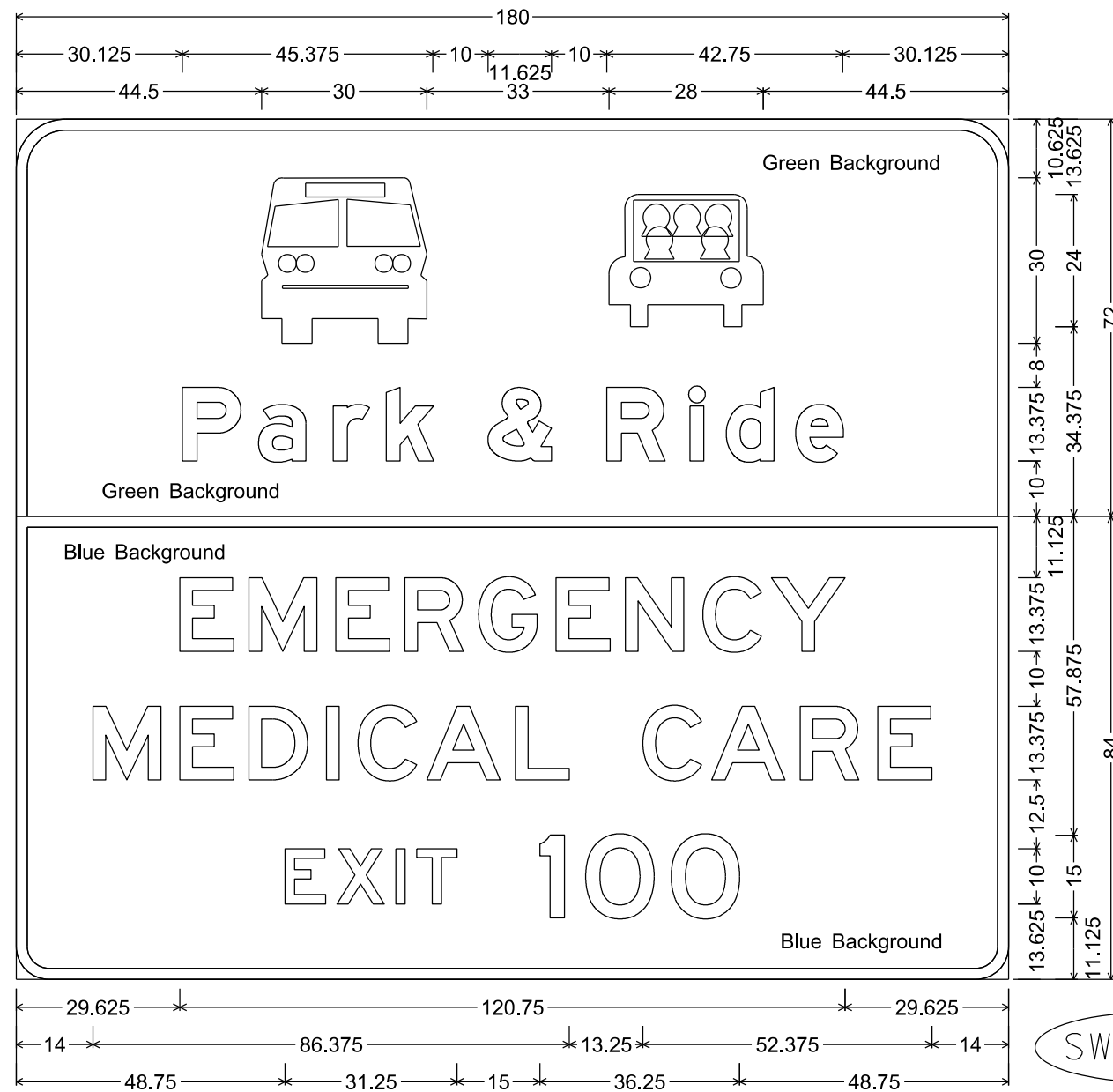






NOTES

1. Sign is Type I - Type SH Reflective
2. Color:
 - Background - Green except as noted
 - Message - White
3. Message Series - E Modified except all CAP words Series E



E3-1; 9.000" Radius, 2.000" Border, White on, Green;
 E3-1; 6.000" Radius, 2.000" Border, White on, Blue

SW-151-1

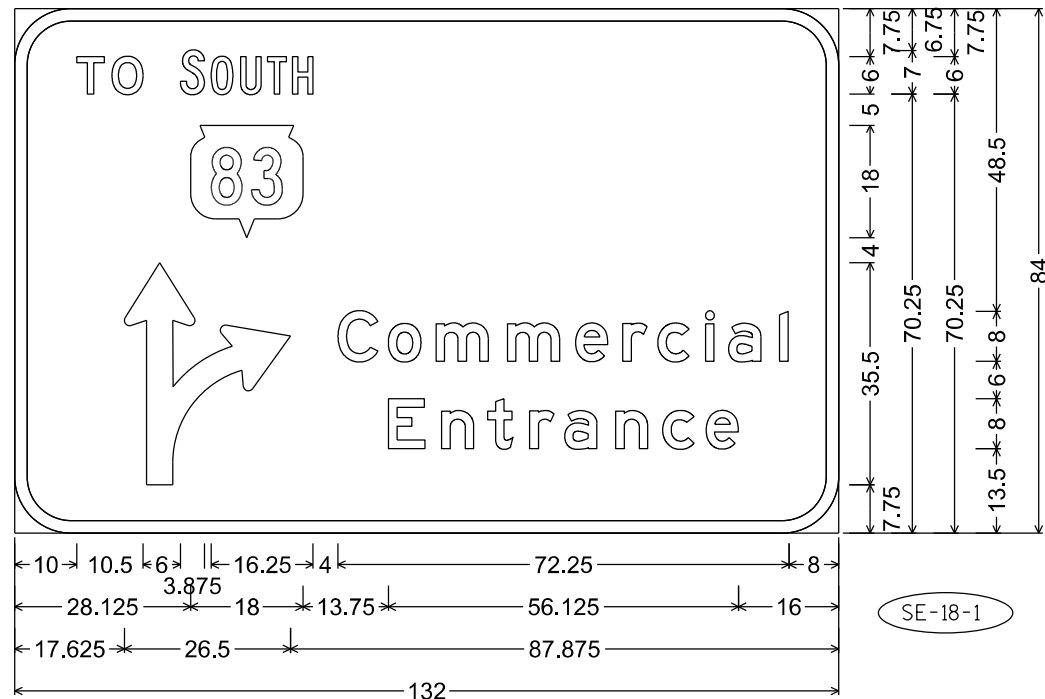
SW-151-2

7

7

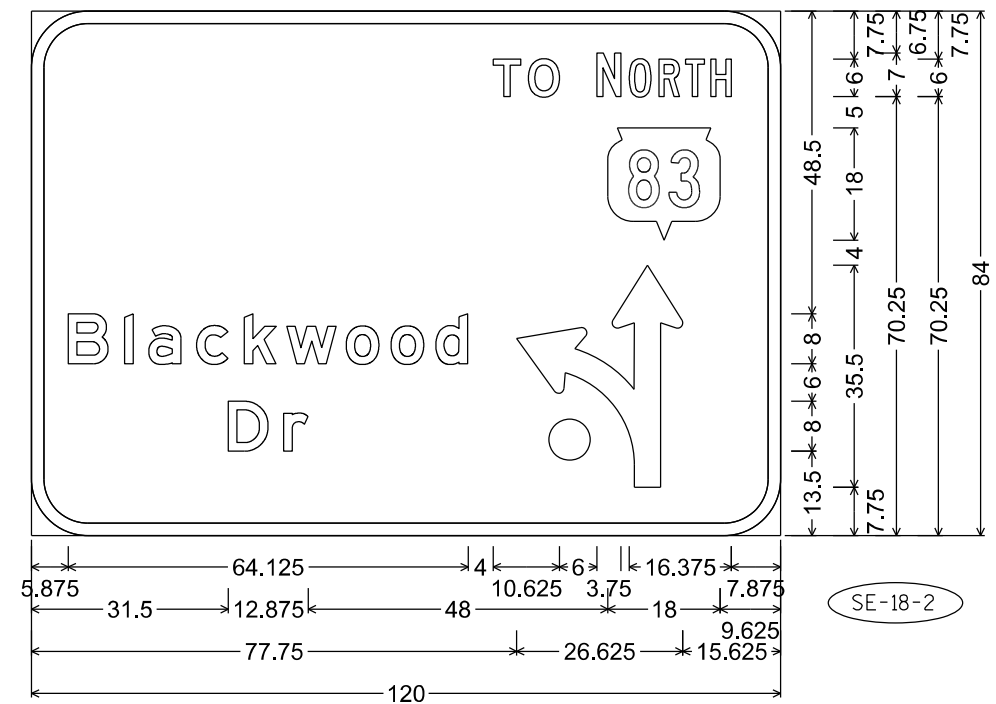
NOTES

1. All Signs Type I - Type SH Reflective
2. Color:
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 Message - White
3. Message Series - E Modified except all CAP words Series E or as noted



E6-53; 9.000" Radius, 2.000" Border
 "TO", E; "SOUTH", C; "Commercial", E; "Entrance", E

SE-18-1

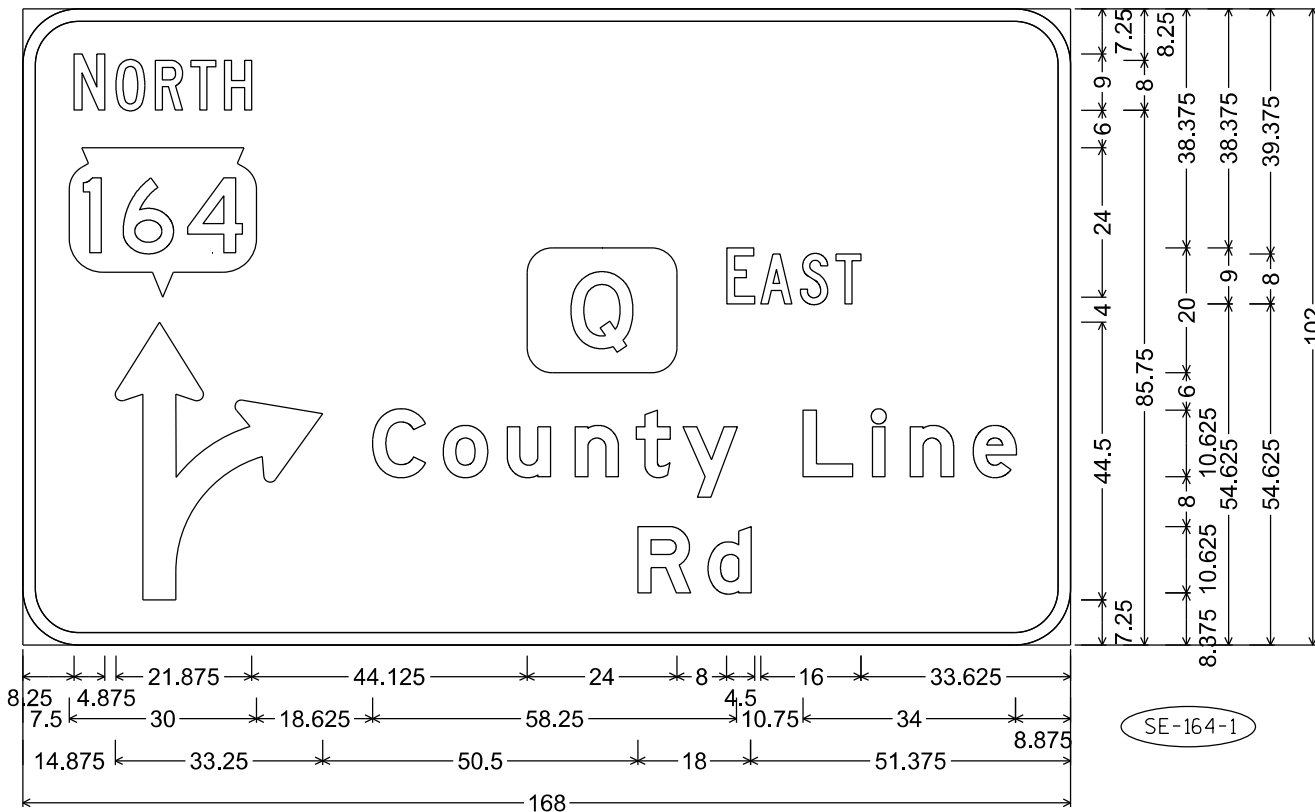


E6-52; 9.000" Radius, 2.000" Border
 "Blackwood", E; "Dr", E; "TO", E; "NORTH", C

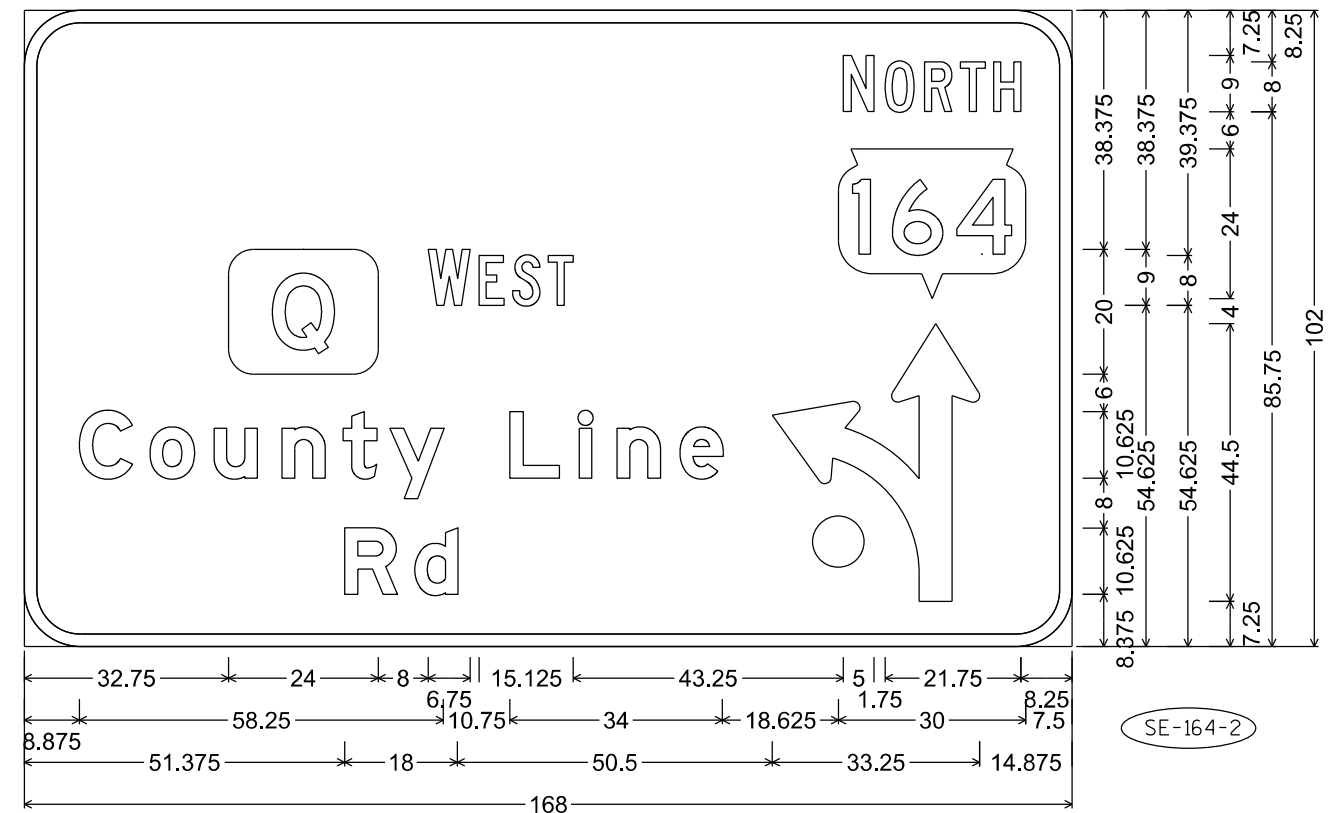
SE-18-2

NOTES

1. All Signs Type I - Type SH Reflective
2. Color:
Background - Green
Message - White
3. Message Series - E Modified except all CAP words Series E or as noted



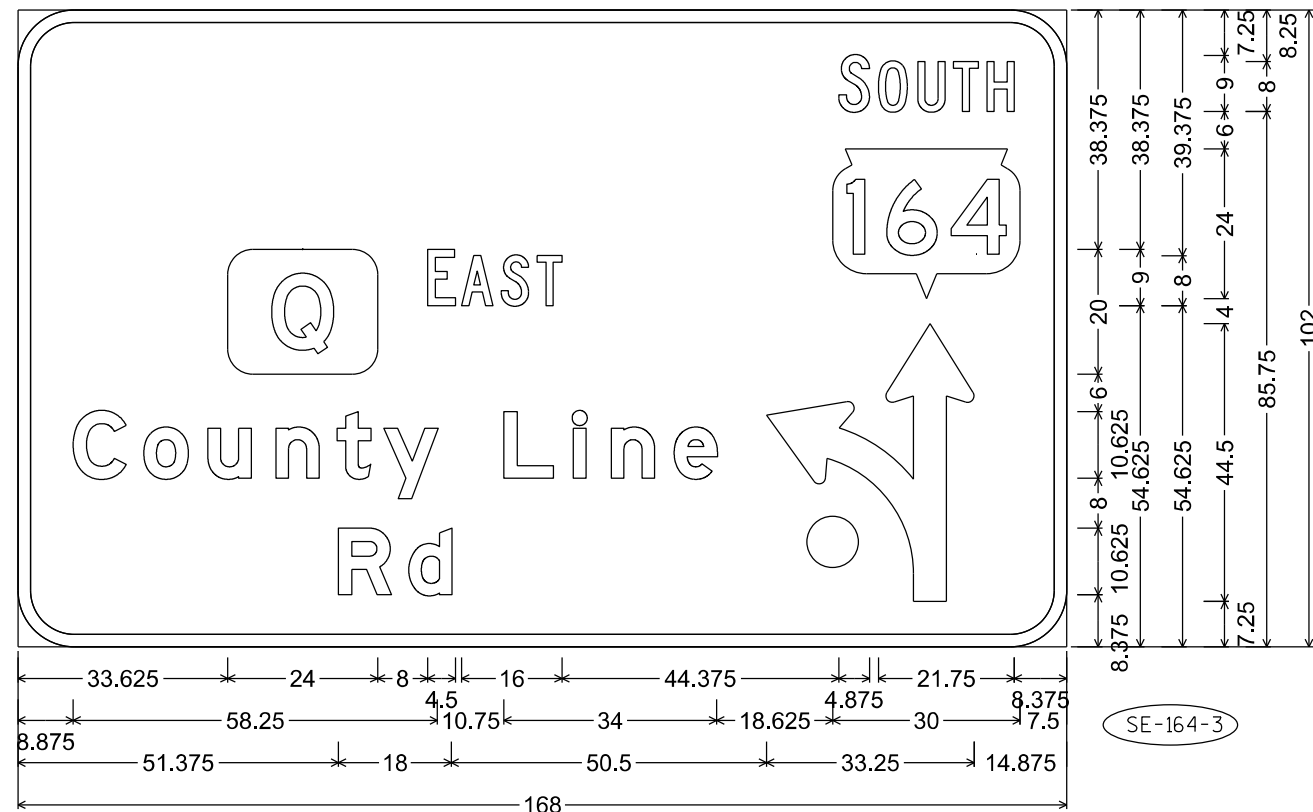
E6-53; 9.000" Radius, 2.000" Border
"NORTH", C; "EAST", C; "County", E Mod; "Line", E Mod; "Rd", E Mod



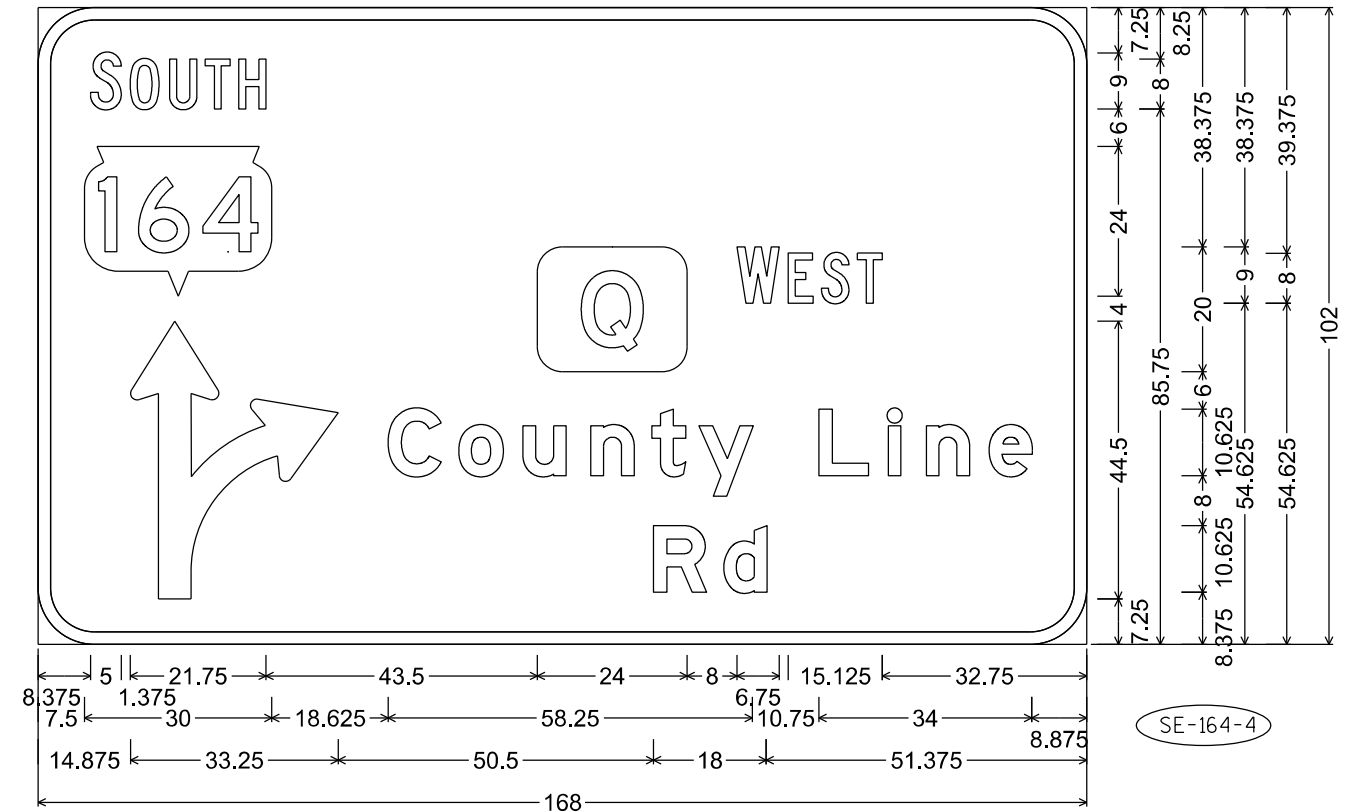
E6-52; 9.000" Radius, 2.000" Border
"WEST", C; "County", E Mod; "Line", E Mod; "Rd", E Mod; "NORTH", C

NOTES

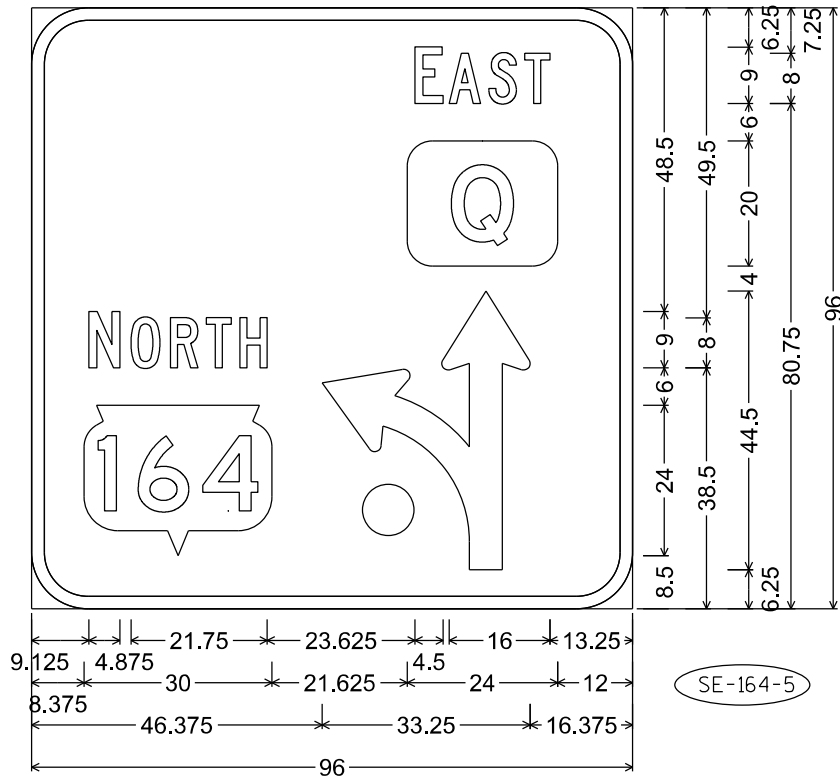
1. All Signs Type I - Type SH Reflective
2. Color:
Background - Green
Message - White
3. Message Series - E Modified except all CAP words Series E or as noted



E6-52; 9.000" Radius, 2.000" Border
"EAST", C; "County", E Mod; "Line", E Mod; "Rd", E Mod; "SOUTH", C



E6-53; 9.000" Radius, 2.000" Border
"SOUTH", C; "WEST", C; "County", E Mod; "Line", E Mod; "Rd", E Mod

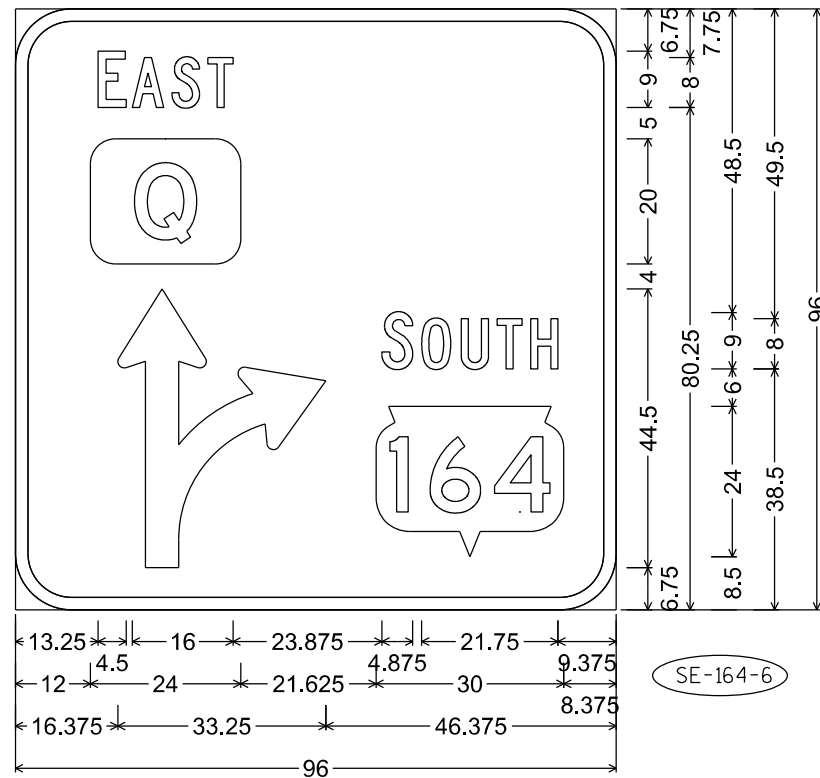


E6-52; 9.000" Radius, 2.000" Border
 "NORTH", C; "EAST", C

SE-164-5

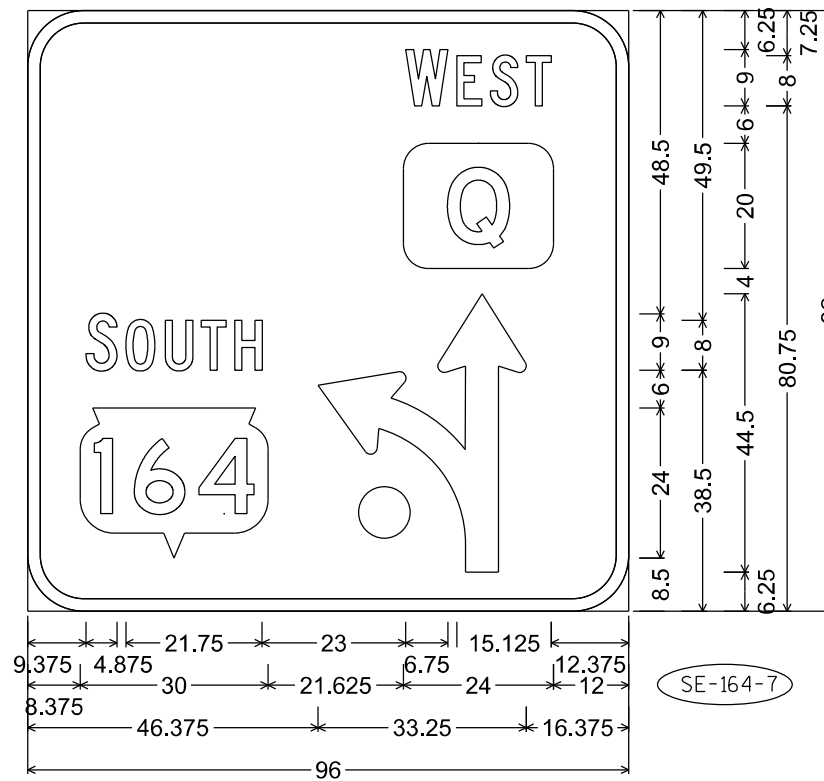
NOTES

1. All Signs Type I - Type SH Reflective
2. Color:
 Background - Green
 Message - White
3. Message Series - E Modified except all CAP words Series E or as noted



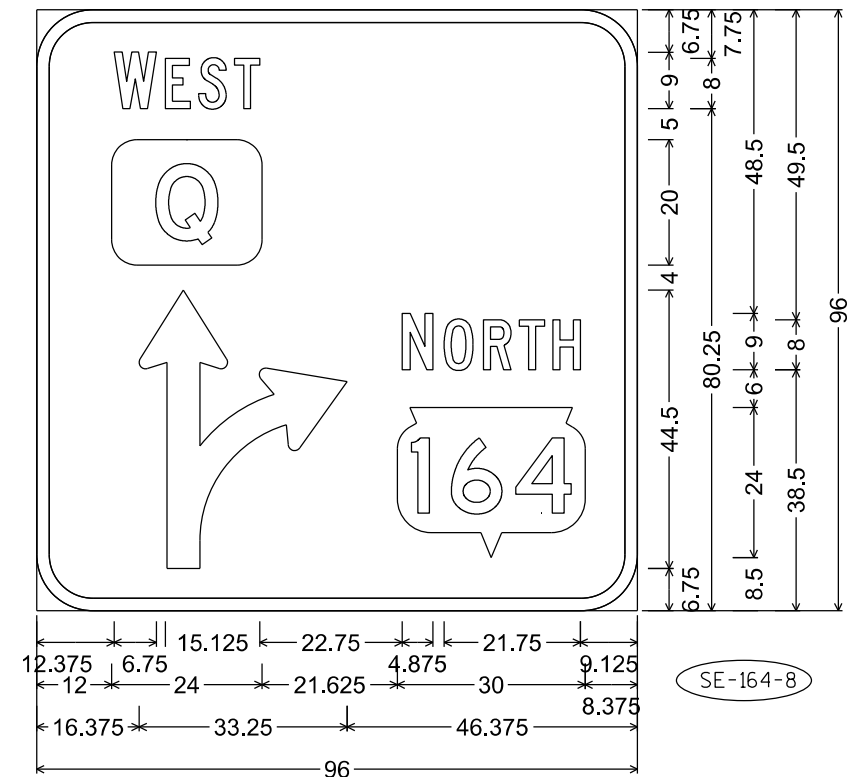
E6-53; 9.000" Radius, 2.000" Border
 "EAST", C; "SOUTH", C

SE-164-6



E6-52; 9.000" Radius, 2.000" Border
 "SOUTH", C; "WEST", C

SE-164-7

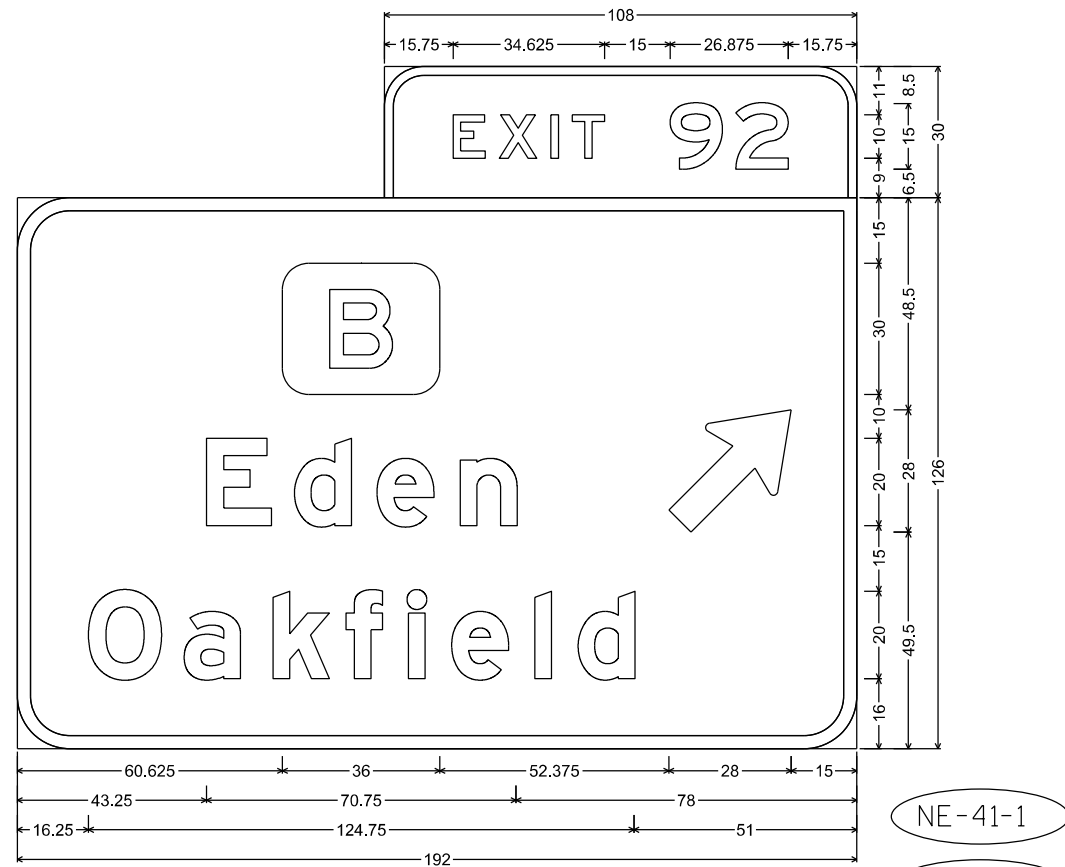


E6-53; 9.000" Radius, 2.000" Border
 "WEST", C; "NORTH", C

SE-164-8

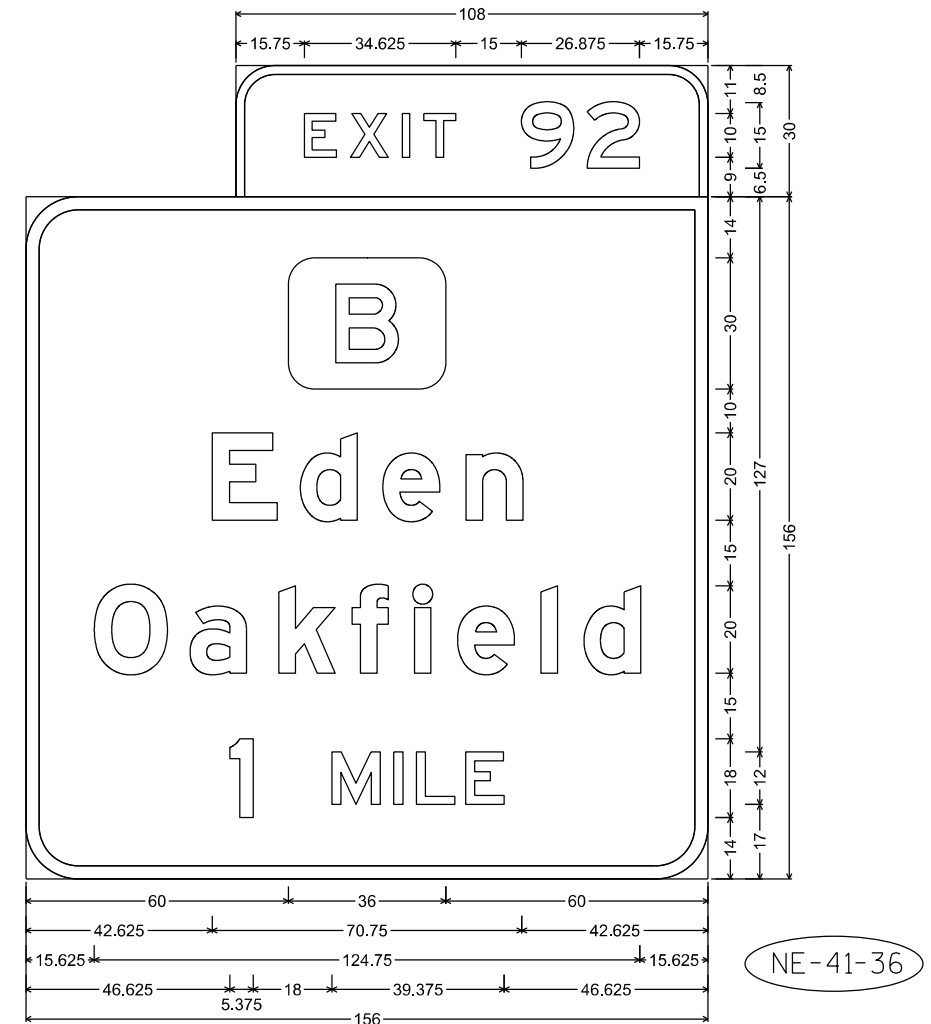
NOTES

1. All Signs Type I - Type SH Reflective
2. Color:
Background - Green
Message - White
3. Message Series - E Modified except all CAP words Series E



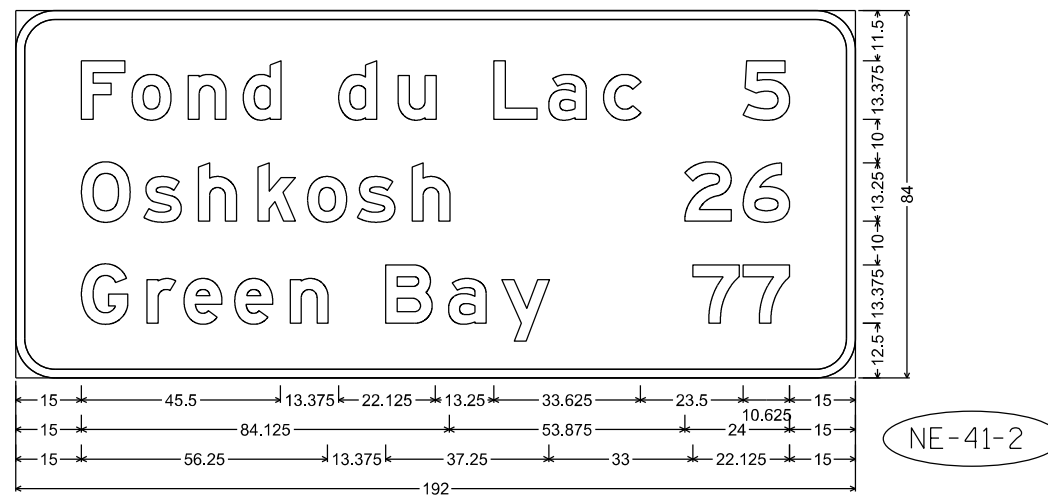
E1-5P; 9.000" Radius, 2.000" Border
E4-1A; 12.000" Radius, 3.000" Border

NE-41-1
NE-41-37



E1-5P; 9.000" Radius, 2.000" Border
E1-1A; 12.000" Radius, 3.000" Border

NE-41-36

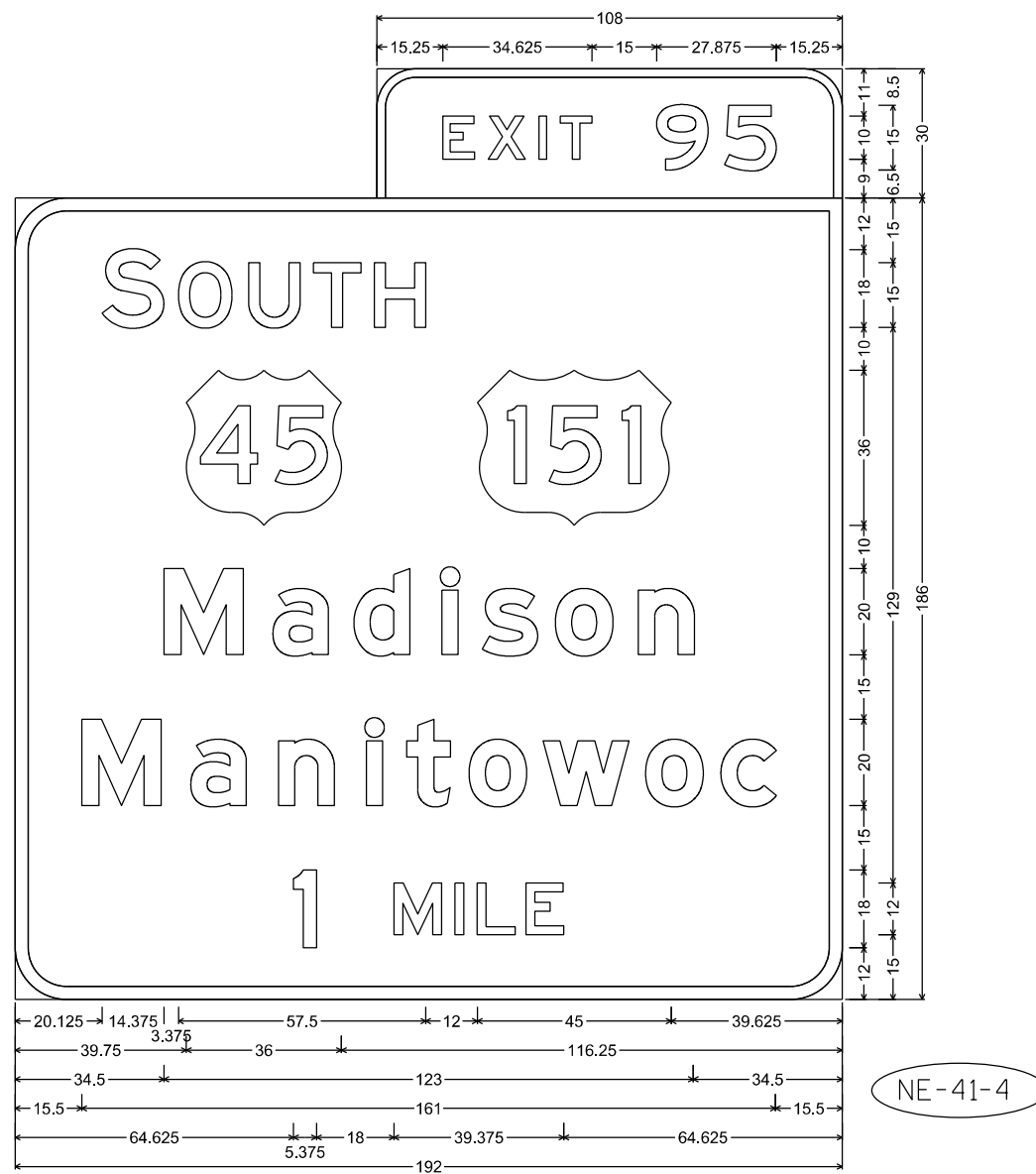


D2-3; 9.000" Radius, 2.000" Border

NE-41-2

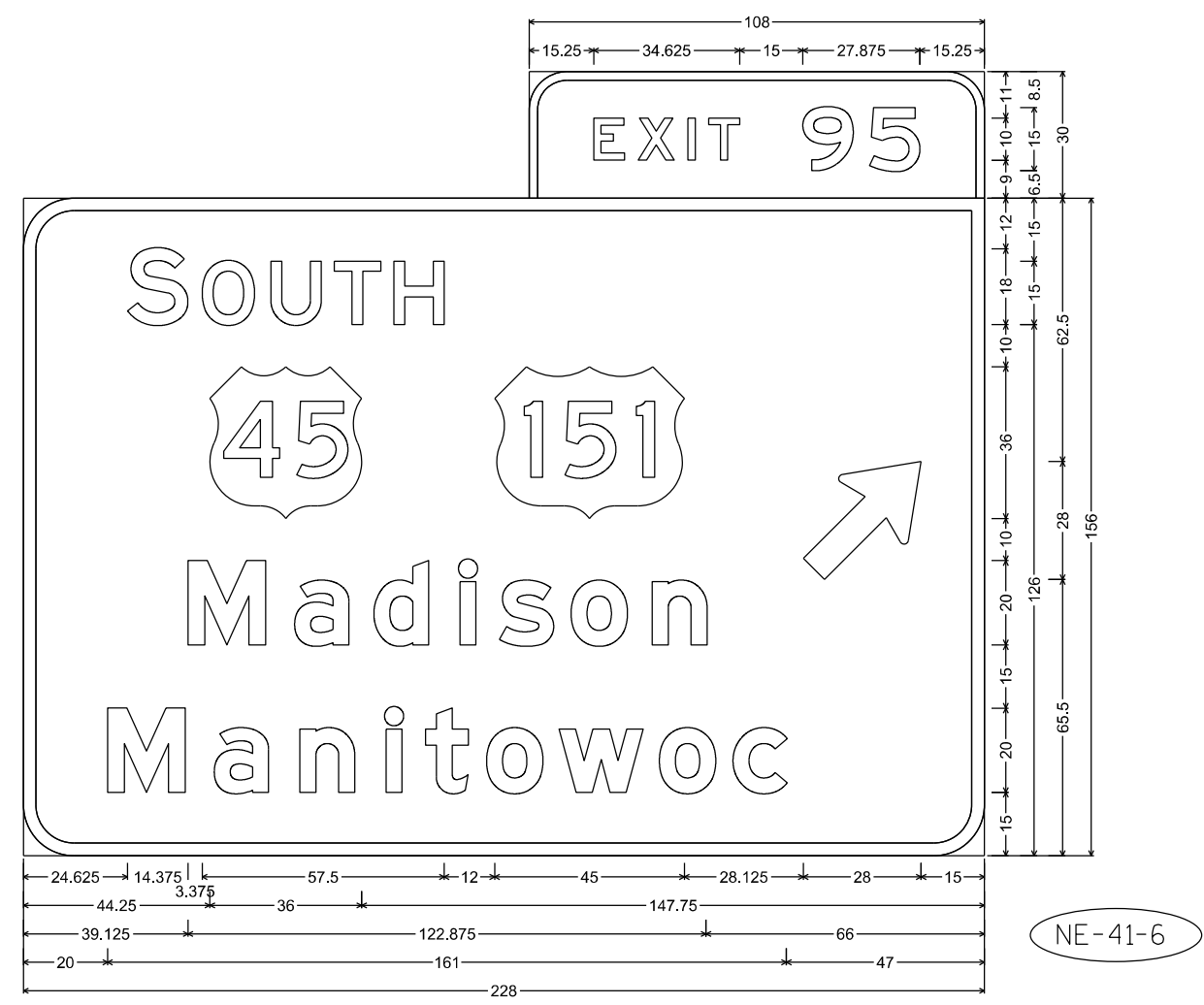
NOTES

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2. Color:
Background - Green
Message - White
3. Message Series - E Modified except all CAP words Series E



E1-5P; 9.000" Radius, 2.000" Border
E1-1A; 12.000" Radius, 3.000" Border

NE-41-4

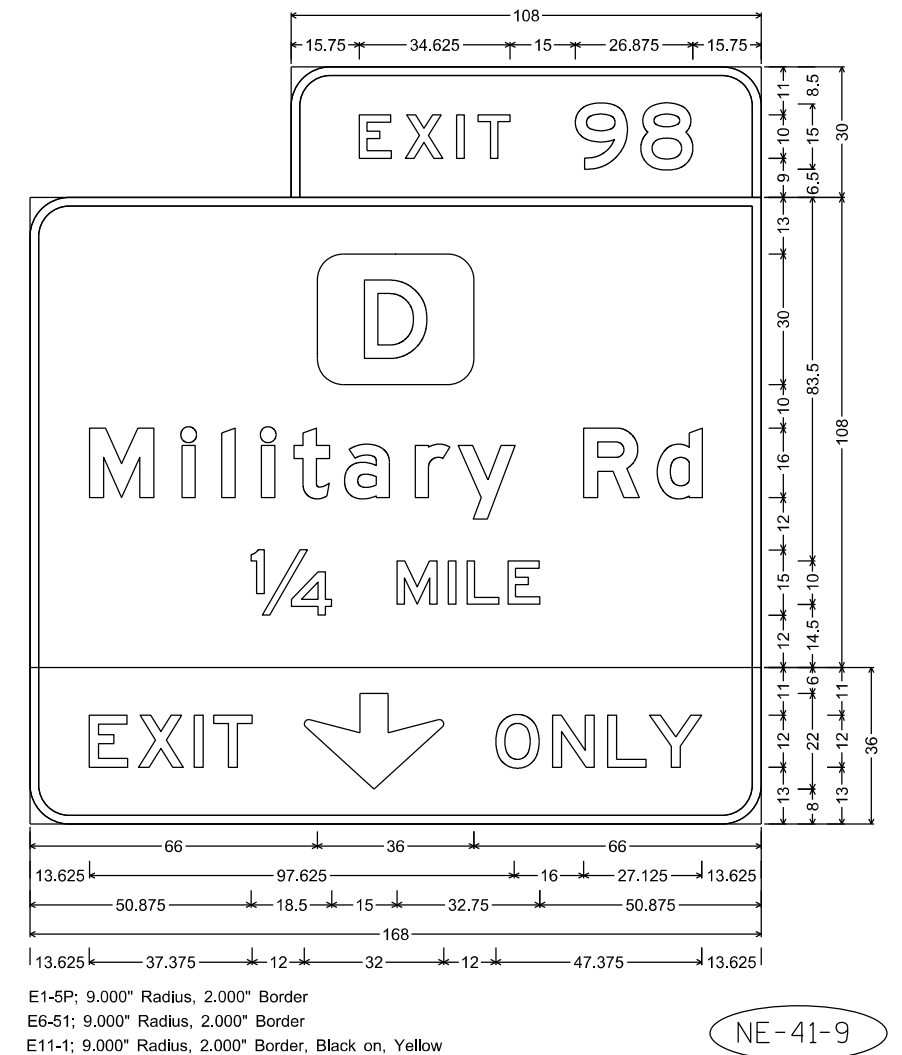
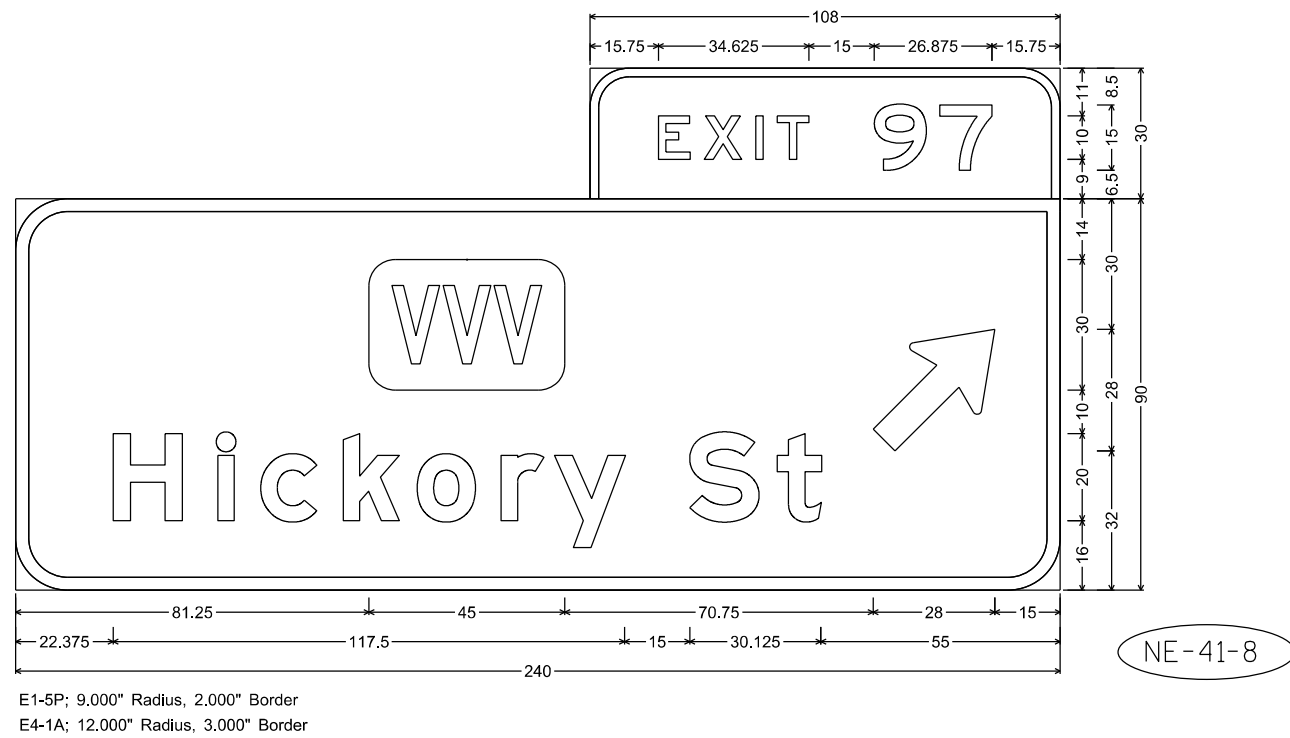
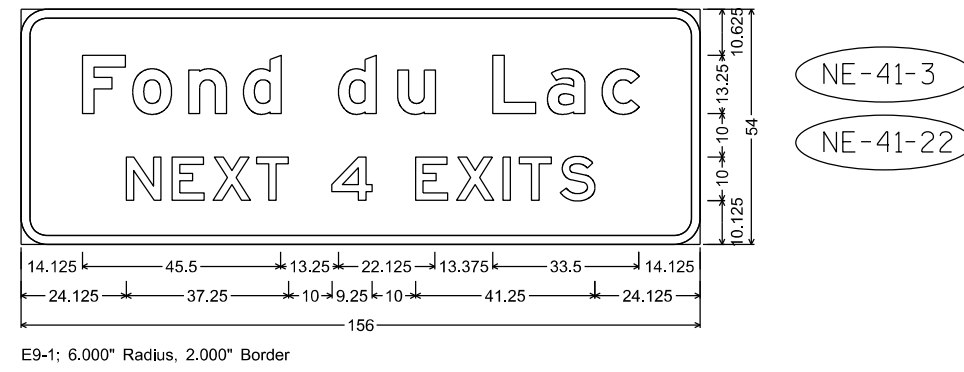
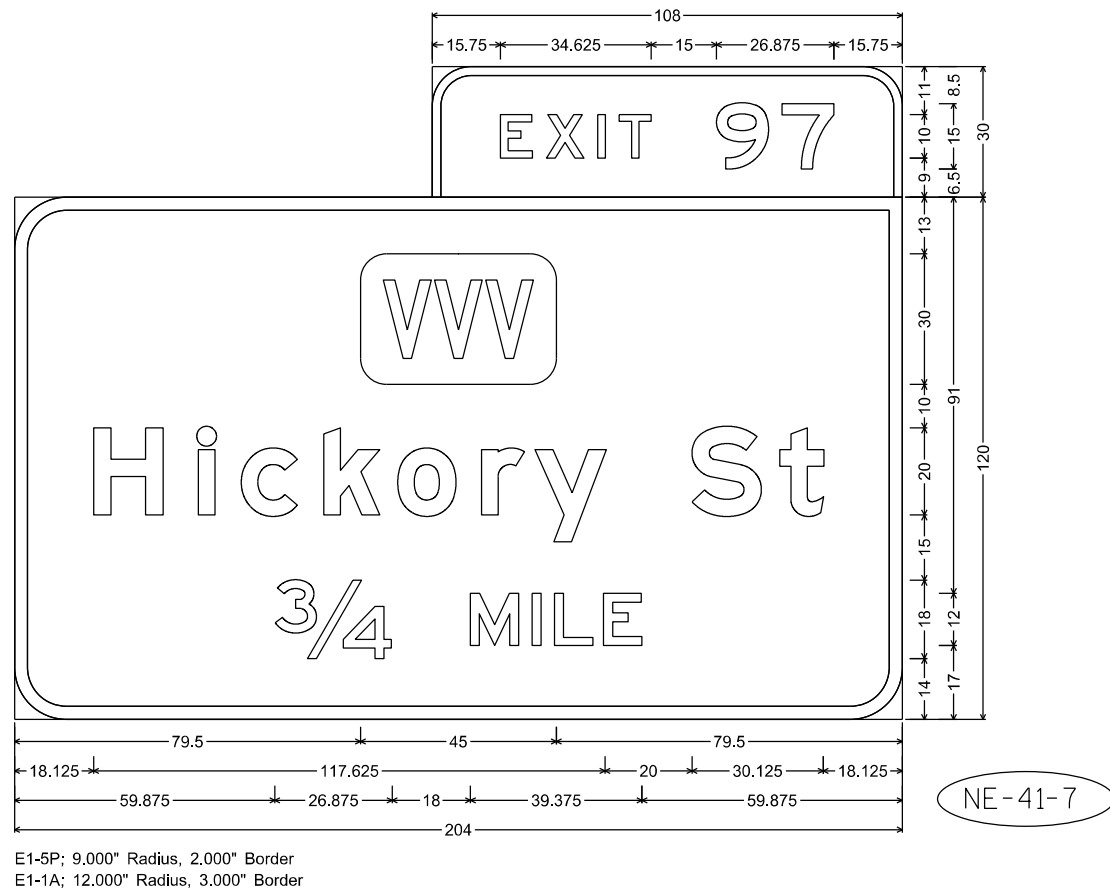


E1-5P; 9.000" Radius, 2.000" Border
E4-1A; 12.000" Radius, 3.000" Border

NE-41-6

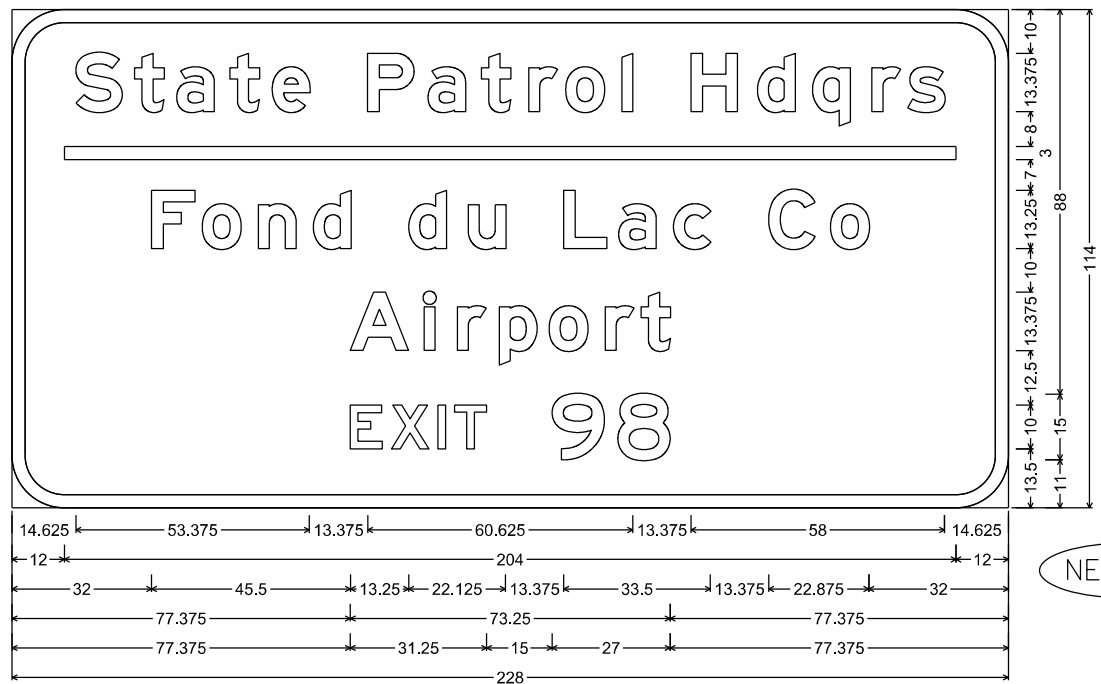
NOTES

1. All Signs Type I - Type SH Reflective
2. Color:
Background - Green
Message - White
3. Message Series - E Modified except all CAP words Series E
4. Exit Only Panel on Yellow Type F Reflective Sheeting with Black Non-Reflective Message



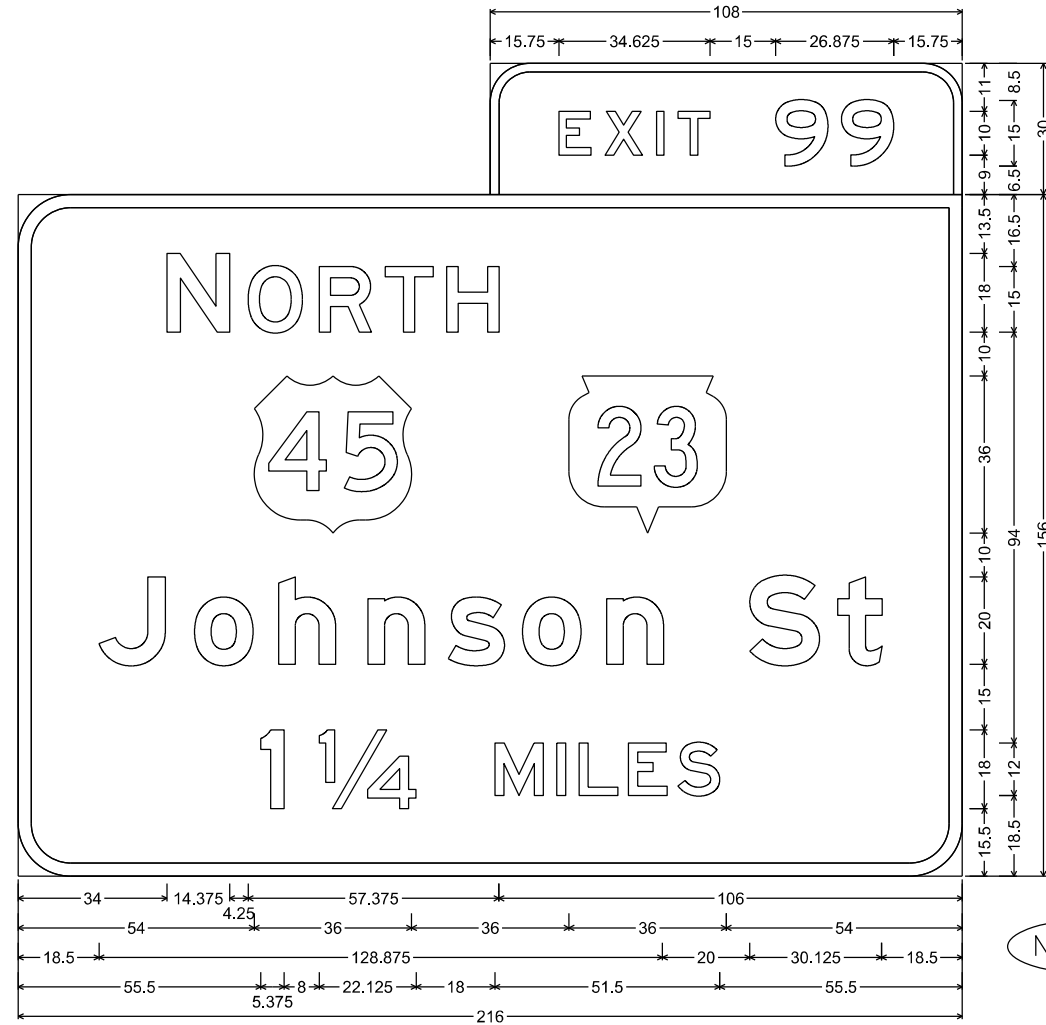
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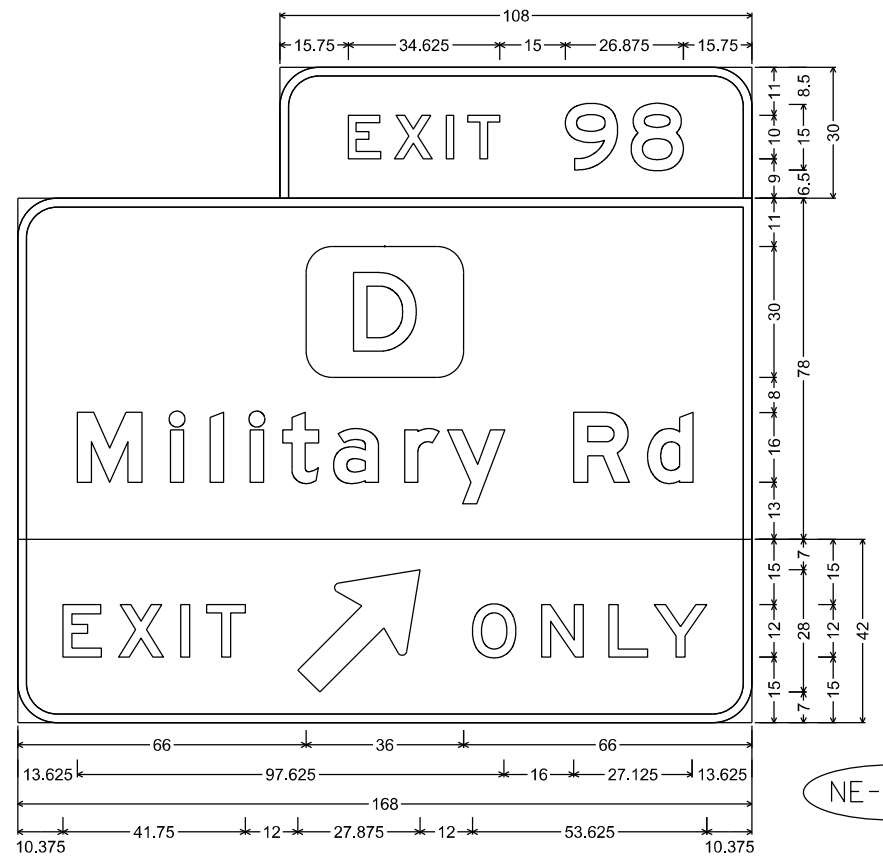
NE-41-10

E3-1; 12.000" Radius, 3.000" Border



NE-41-12

E1-5P; 9.000" Radius, 2.000" Border
E1-1A; 12.000" Radius, 3.000" Border

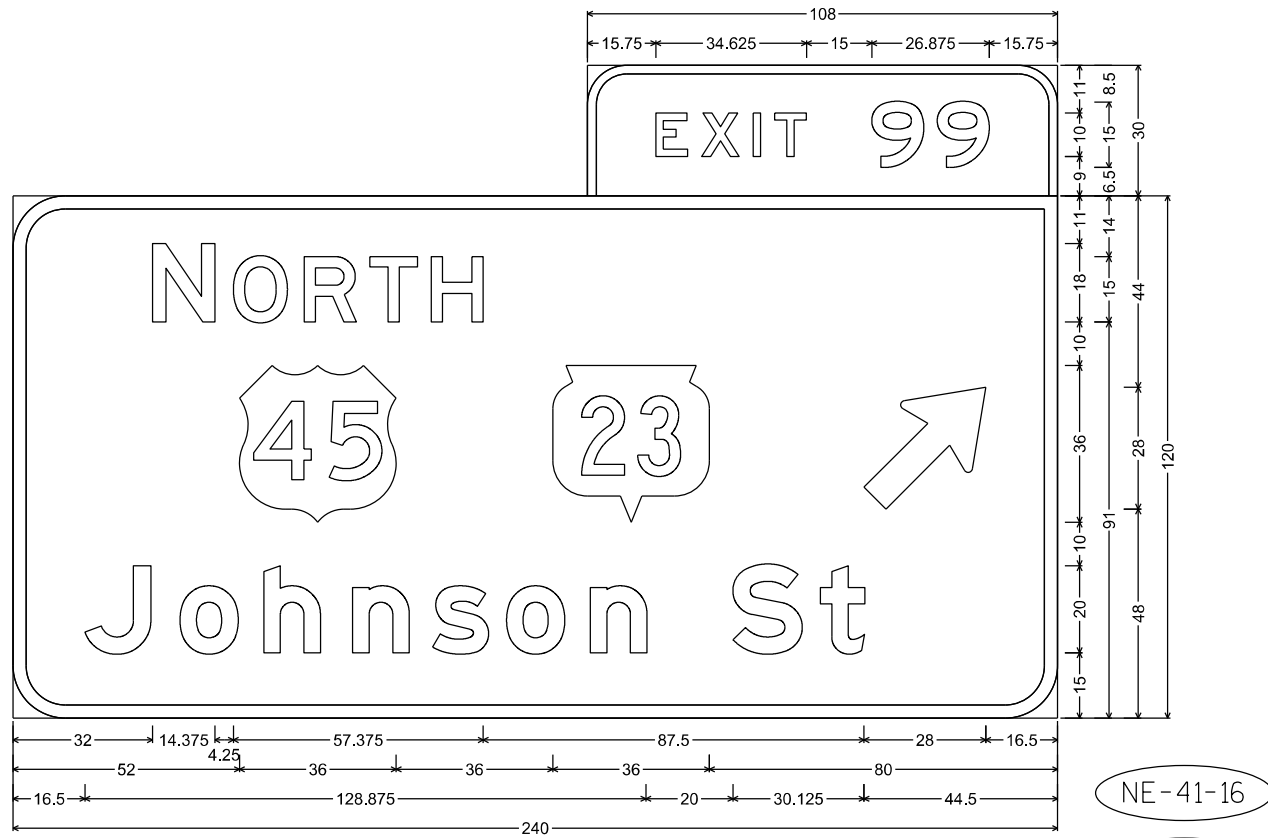


NE-41-11

E1-5P; 9.000" Radius, 2.000" Border
E6-1; 9.000" Radius, 2.000" Border
E11-1D; 9.000" Radius, 2.000" Border, Black on, Yellow

NOTES

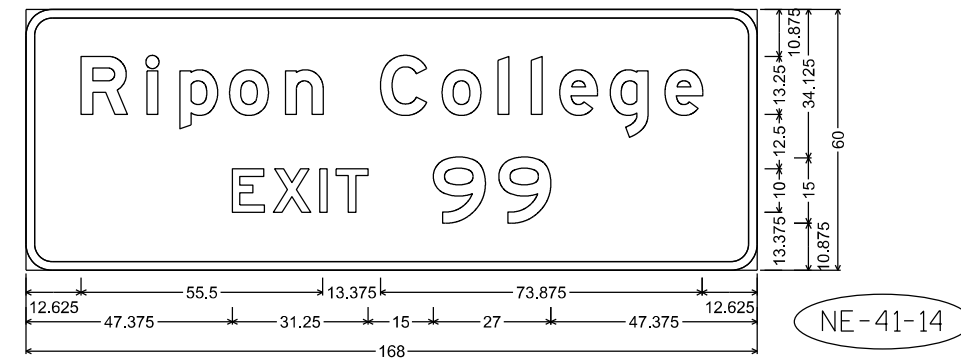
1. All Signs Type I - Type SH Reflective
2. Color:
Background - Green
Message - White
3. Message Series - E Modified except all CAP words Series E



E1-5P; 9.000" Radius, 2.000" Border
E4-1A; 12.000" Radius, 3.000" Border

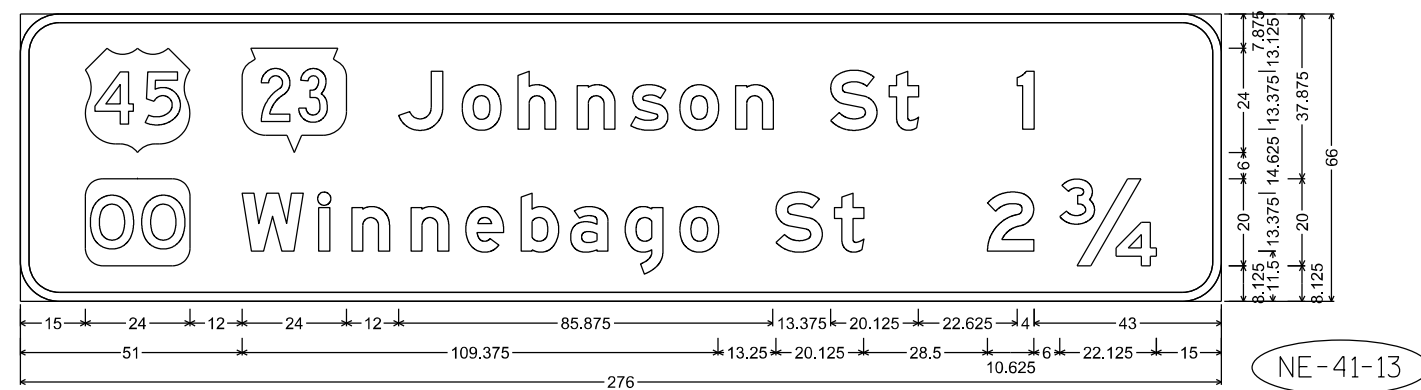
NE-41-16

NE-41-26



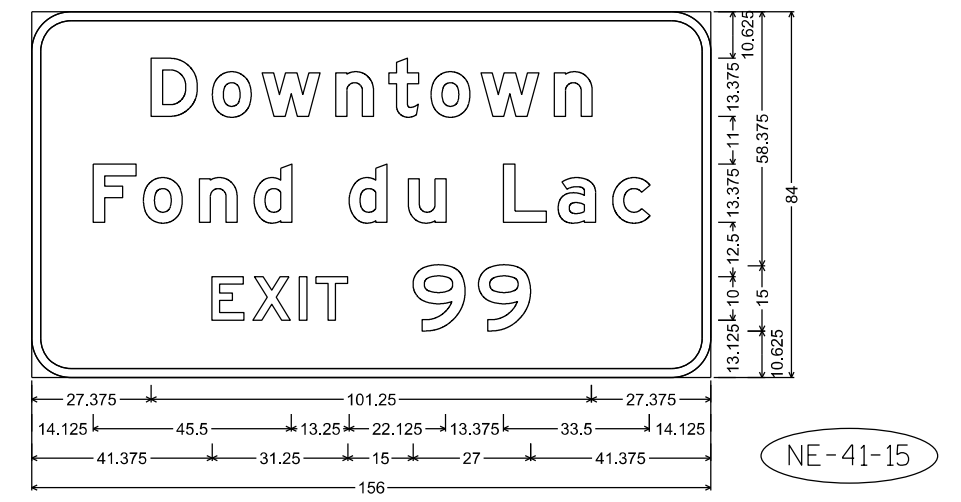
E3-1; 6.000" Radius, 2.000" Border

NE-41-14



E8-1; 9.000" Radius, 2.000" Border

NE-41-13



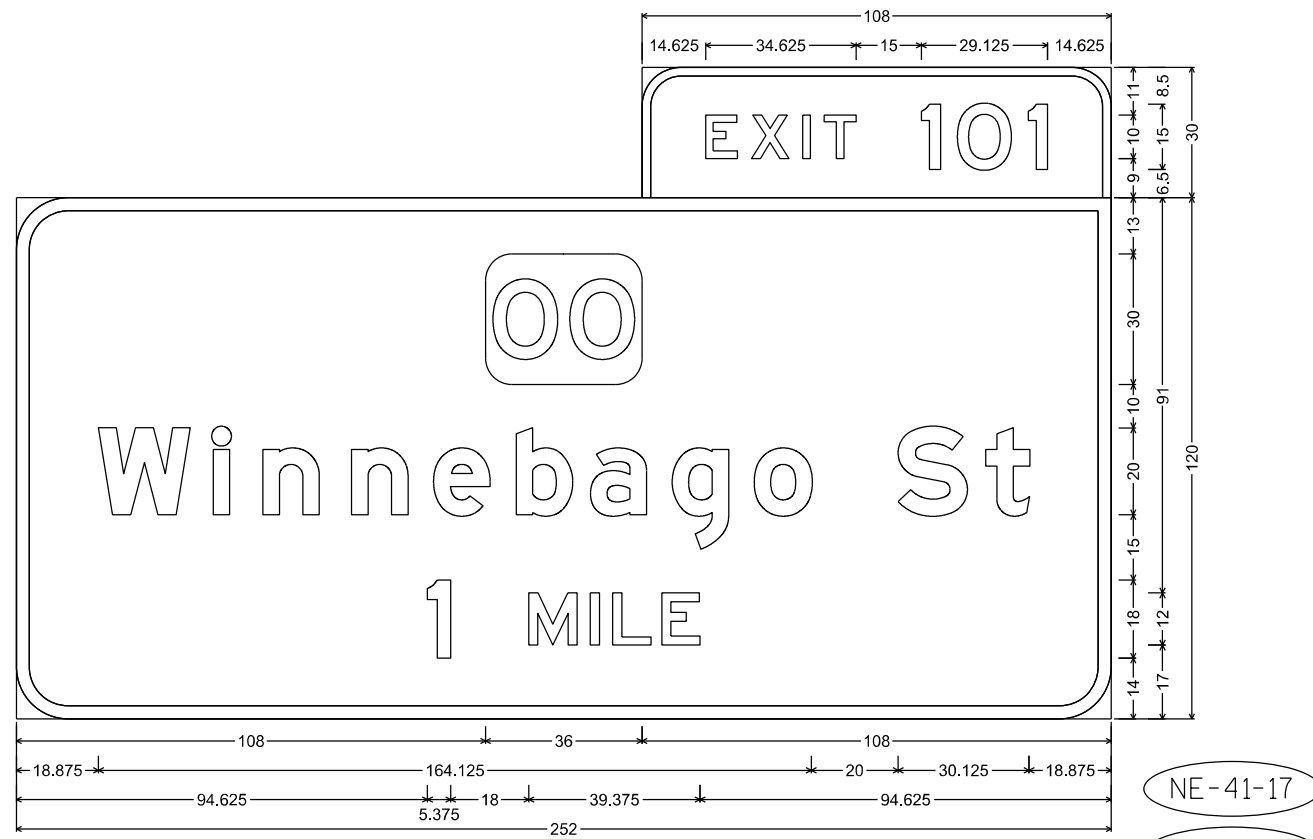
E3-1; 9.000" Radius, 2.000" Border

NE-41-15

NE-41-25

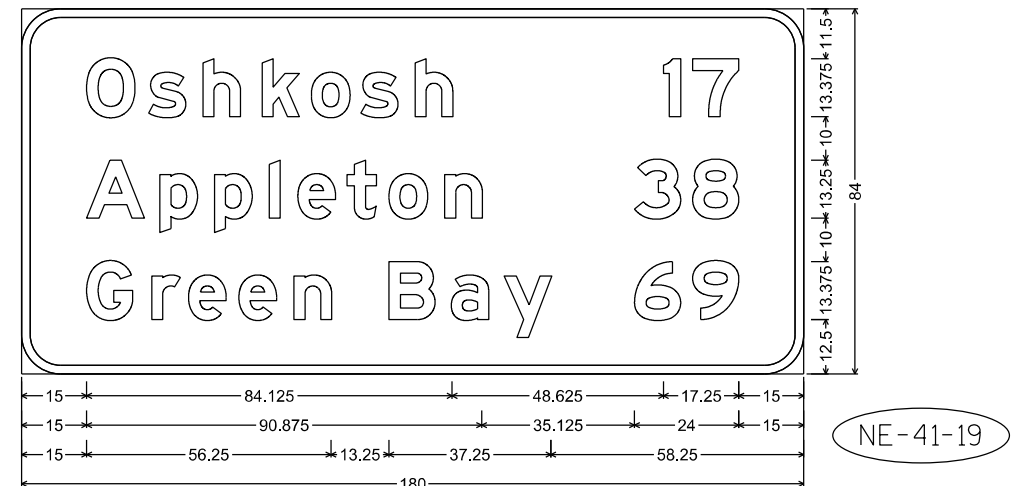
NOTES

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Message - White
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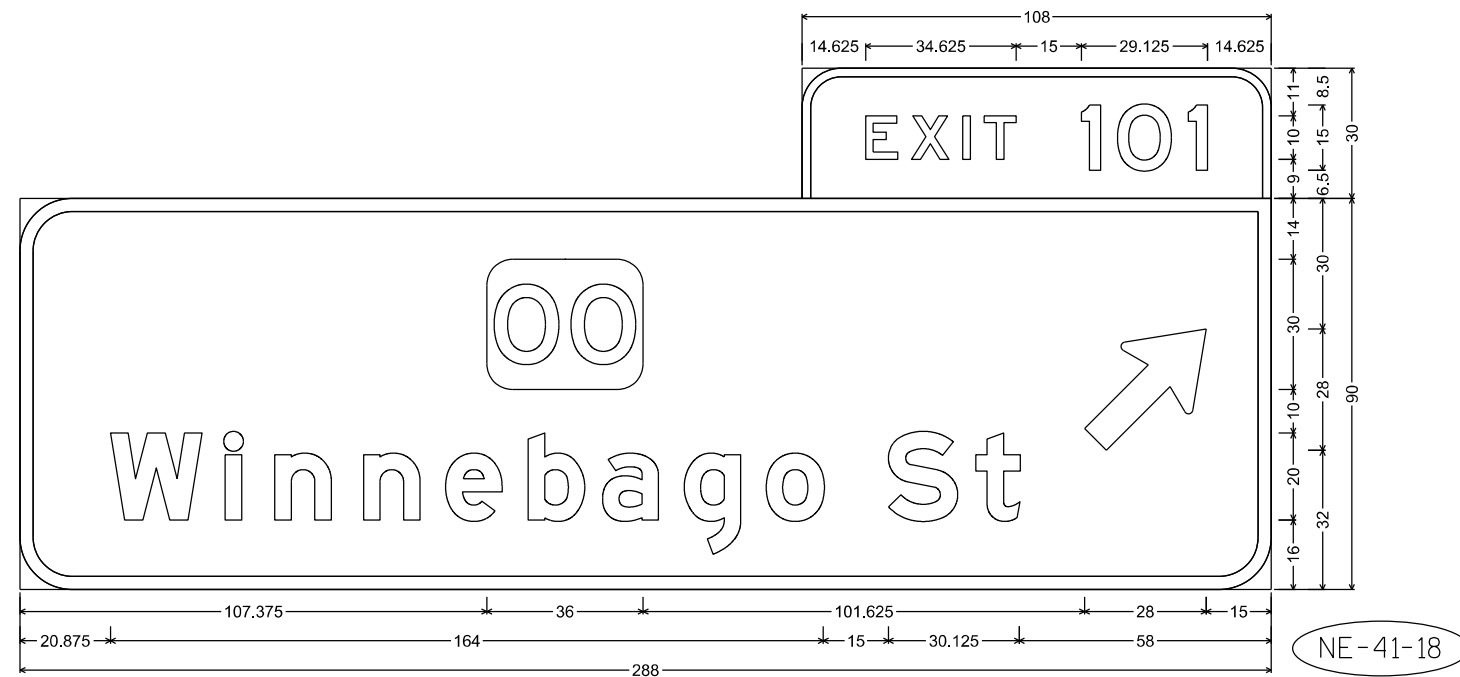
E1-5P; 9.000" Radius, 2.000" Border
E1-1A; 12.000" Radius, 3.000" Border

NE-41-17
NE-41-20



D2-3; 9.000" Radius, 2.000" Border

NE-41-19



E1-5P; 9.000" Radius, 2.000" Border
E4-1A; 12.000" Radius, 3.000" Border

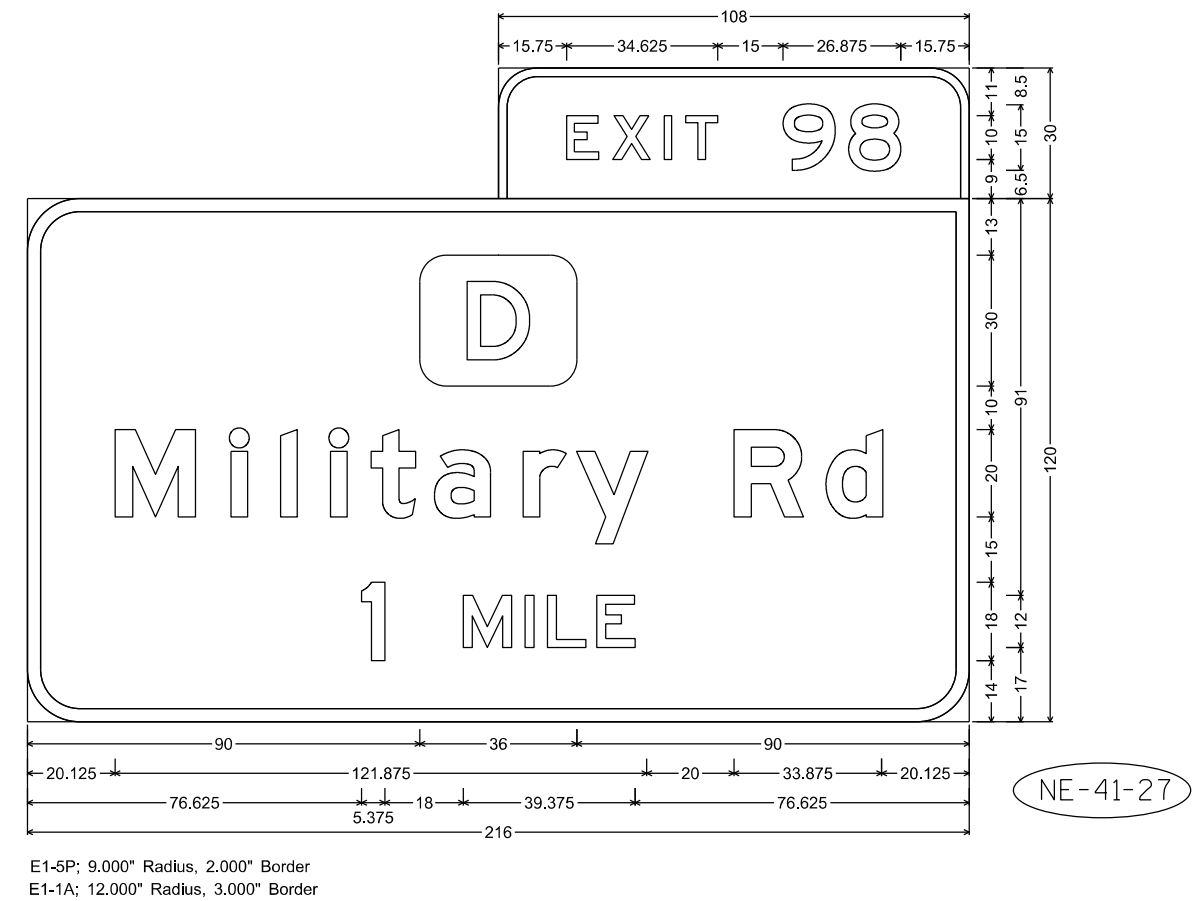
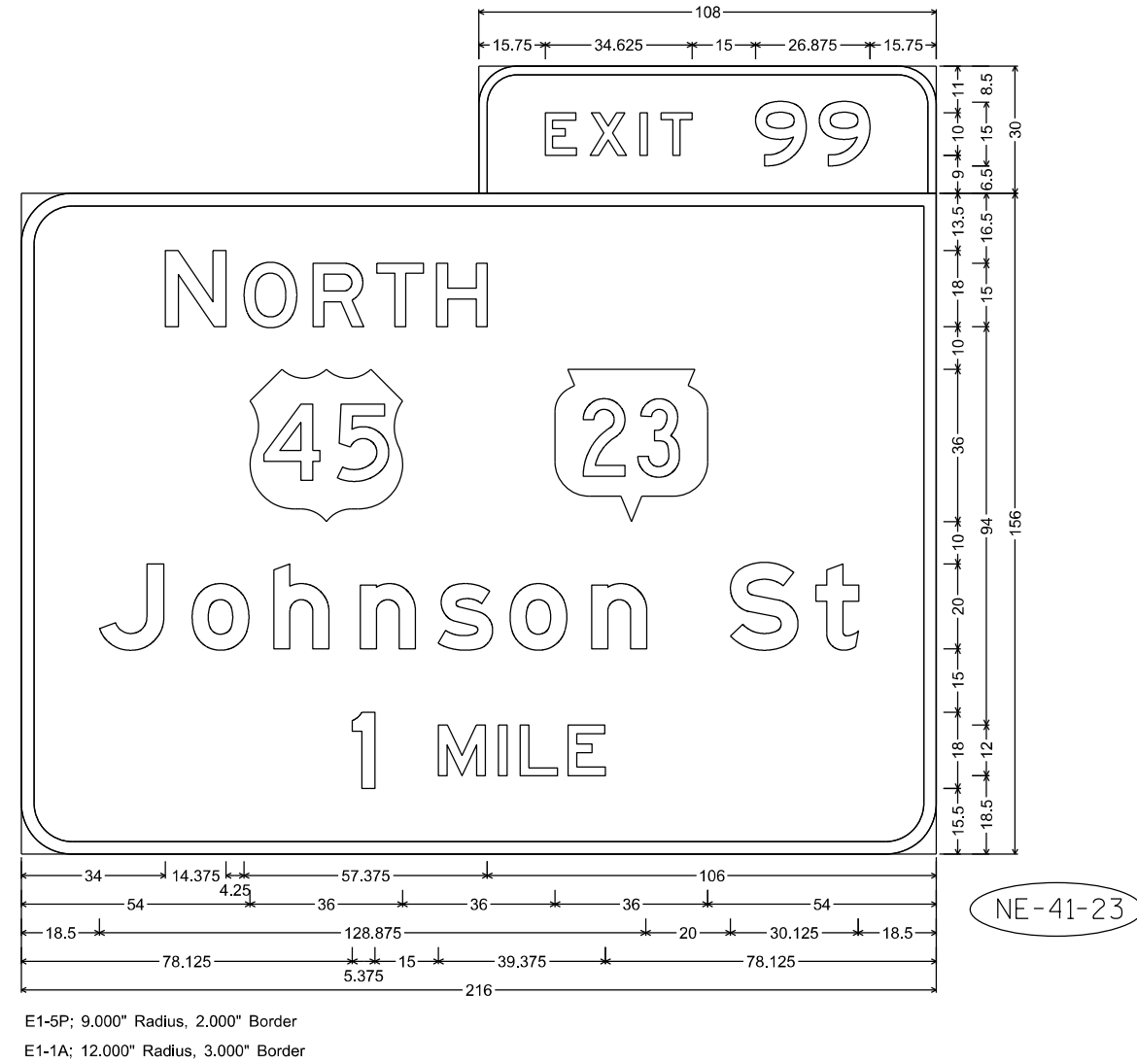
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NE-41-21

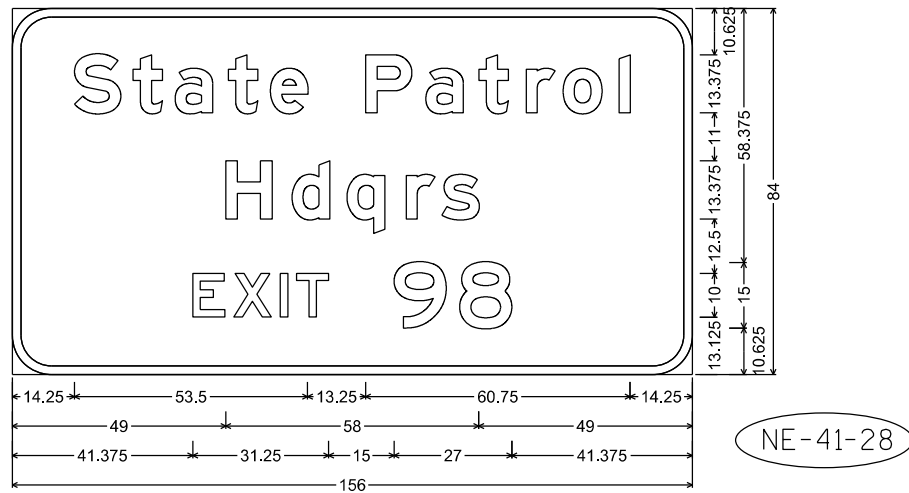
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NOTES

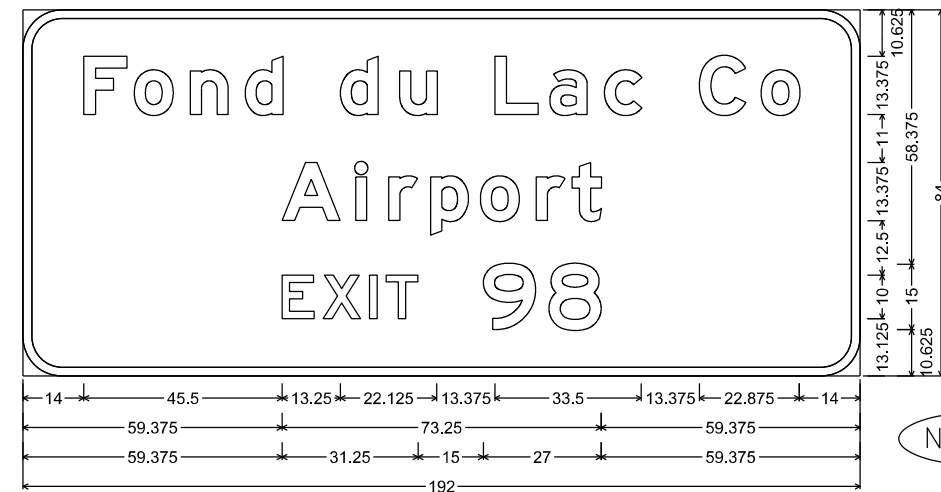
1. All Signs Type I - Type SH Reflective
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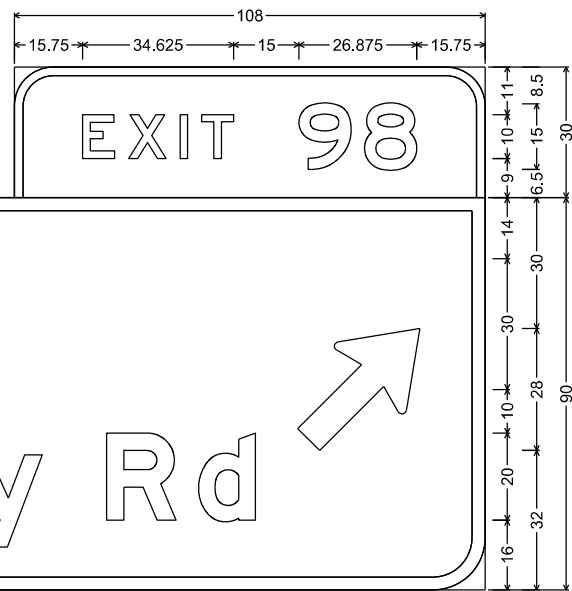
NE-41-28

E3-1; 9.000" Radius, 2.000" Border



NE-41-29

E3-1; 9.000" Radius, 2.000" Border

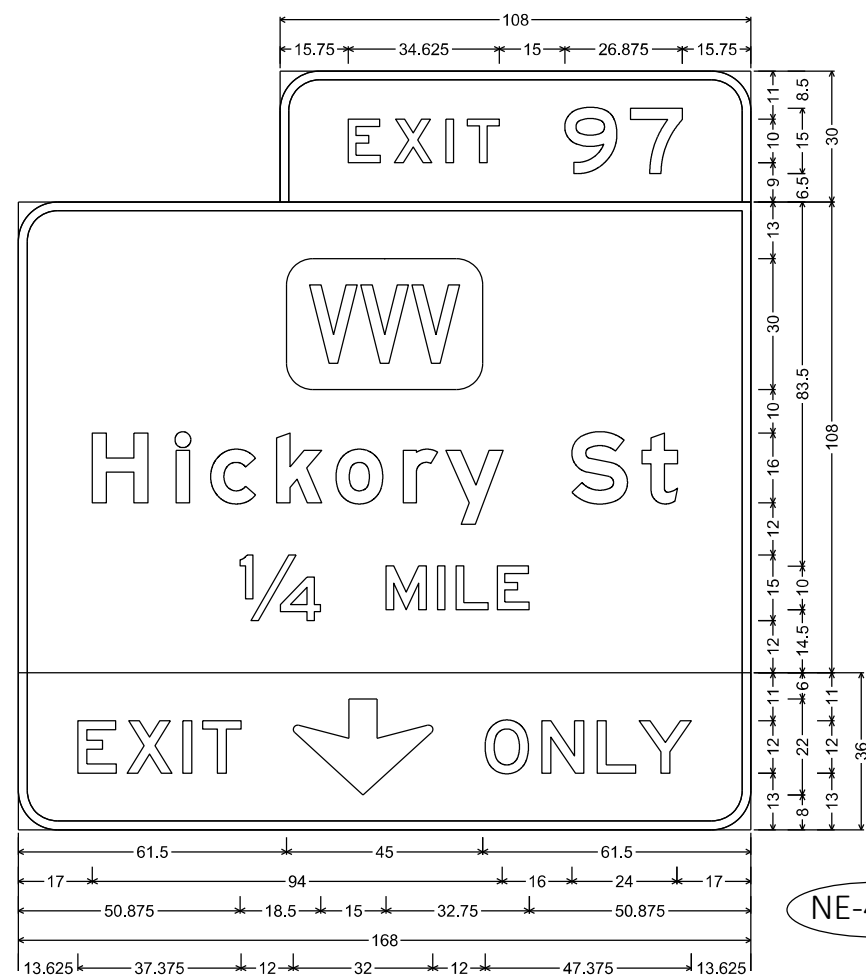


NE-41-30

E1-5P; 9.000" Radius, 2.000" Border
E4-1A; 12.000" Radius, 3.000" Border

NOTES

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Message - White
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4. Exit Only Panel on Yellow Type F Reflective Sheeting with Black Non-Reflective Message

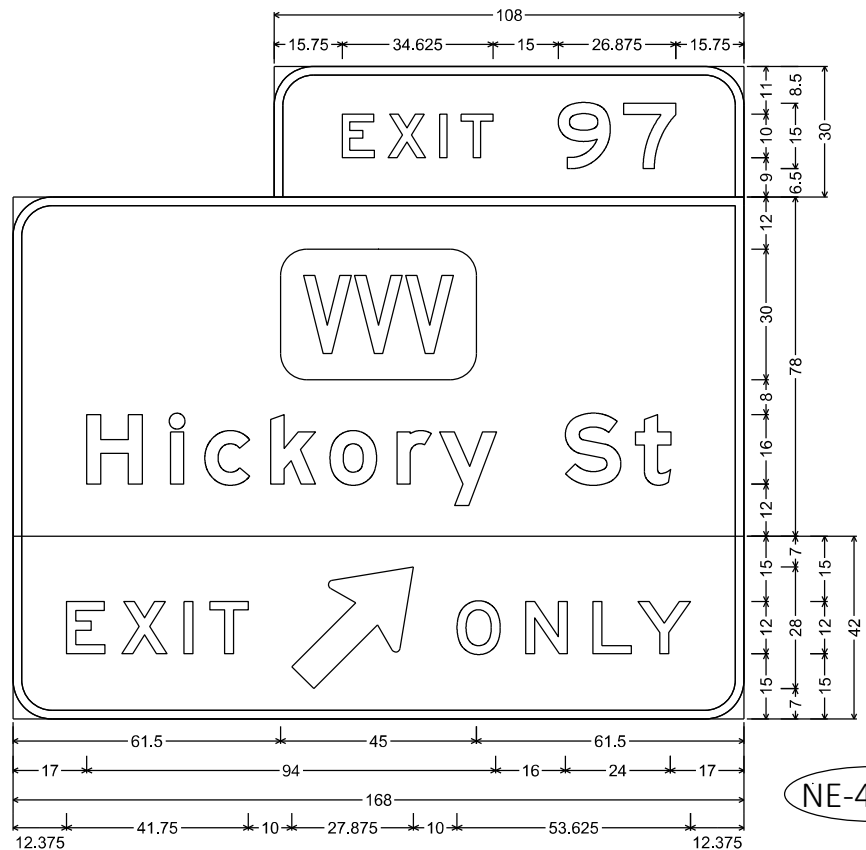


NE-41-31

E1-5P; 9.000" Radius, 2.000" Border
E6-51; 9.000" Radius, 2.000" Border
E11-1; 9.000" Radius, 2.000" Border, Black on, Yellow

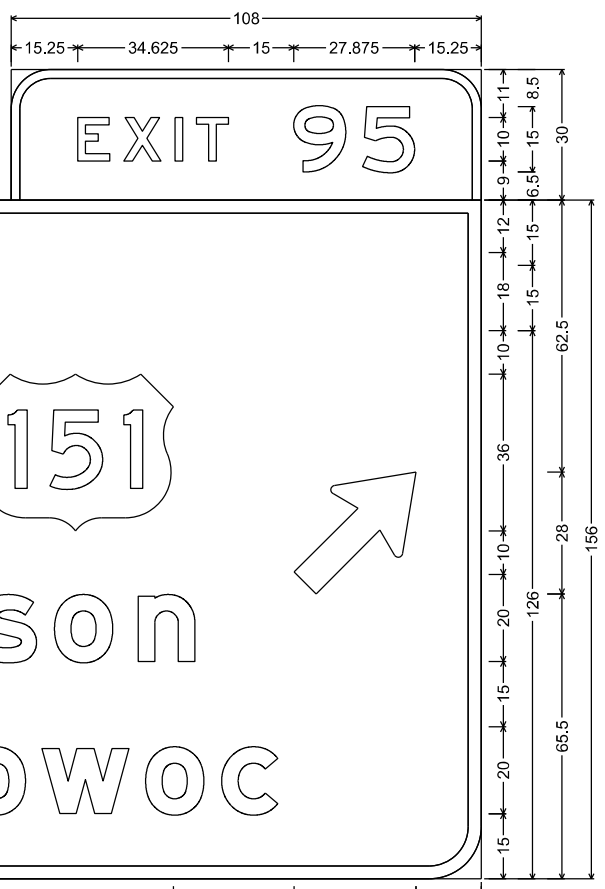
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7



NE-41-32

E1-5P; 9.000" Radius, 2.000" Border
 E6-1; 9.000" Radius, 2.000" Border
 E11-1D; 9.000" Radius, 2.000" Border, Black on, Yellow



NE-41-34

E1-5P; 9.000" Radius, 2.000" Border
 E4-1A; 12.000" Radius, 3.000" Border

NOTES

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NE-41-33

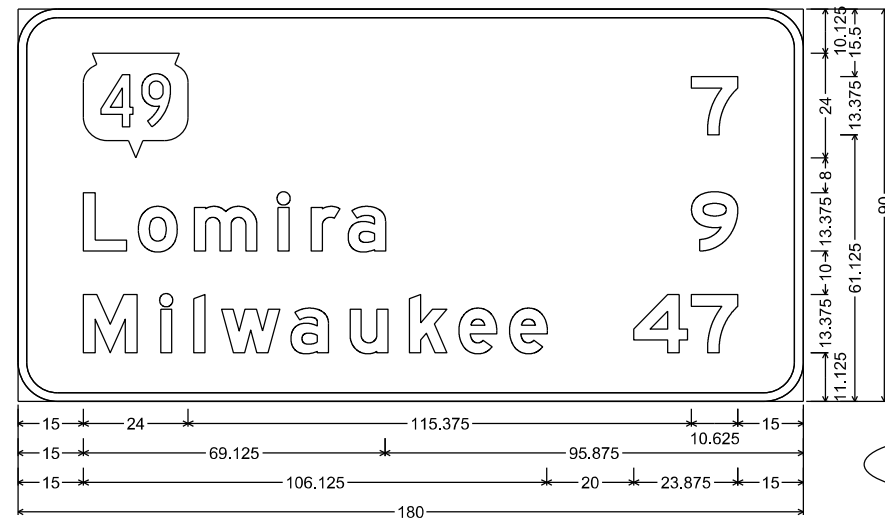
E1-5P; 9.000" Radius, 2.000" Border
 E1-1A; 12.000" Radius, 3.000" Border

7

7

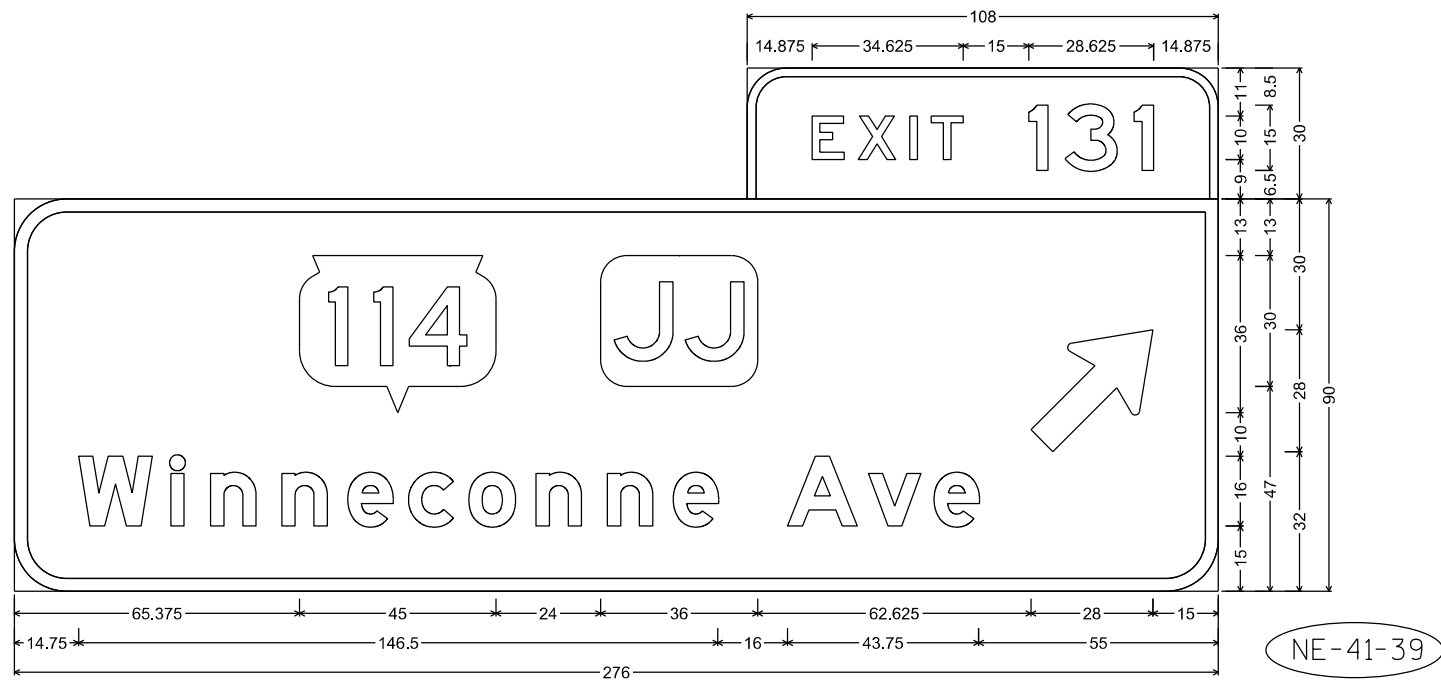
NOTES

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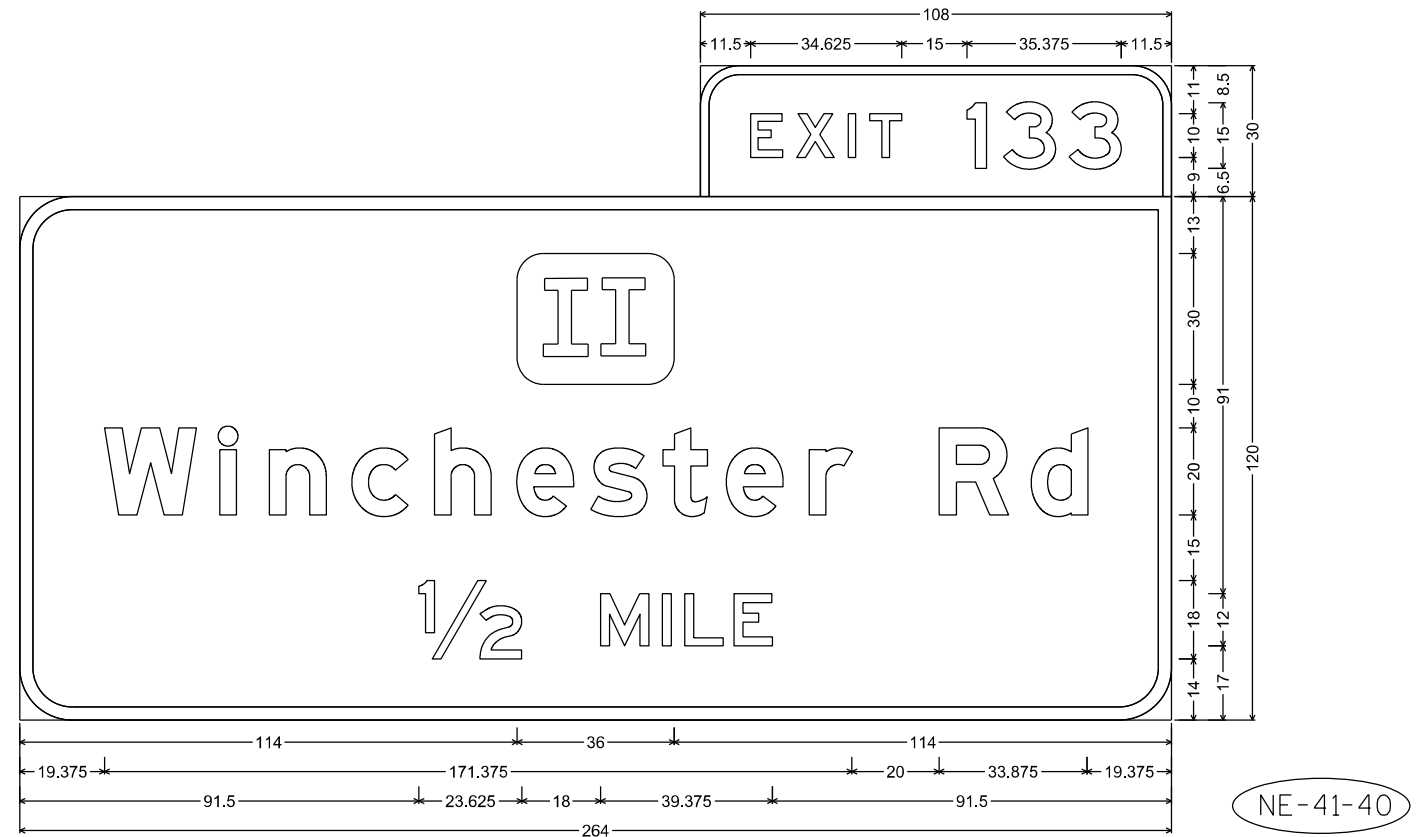
D2-3; 9.000" Radius, 2.000" Border

NE-41-35



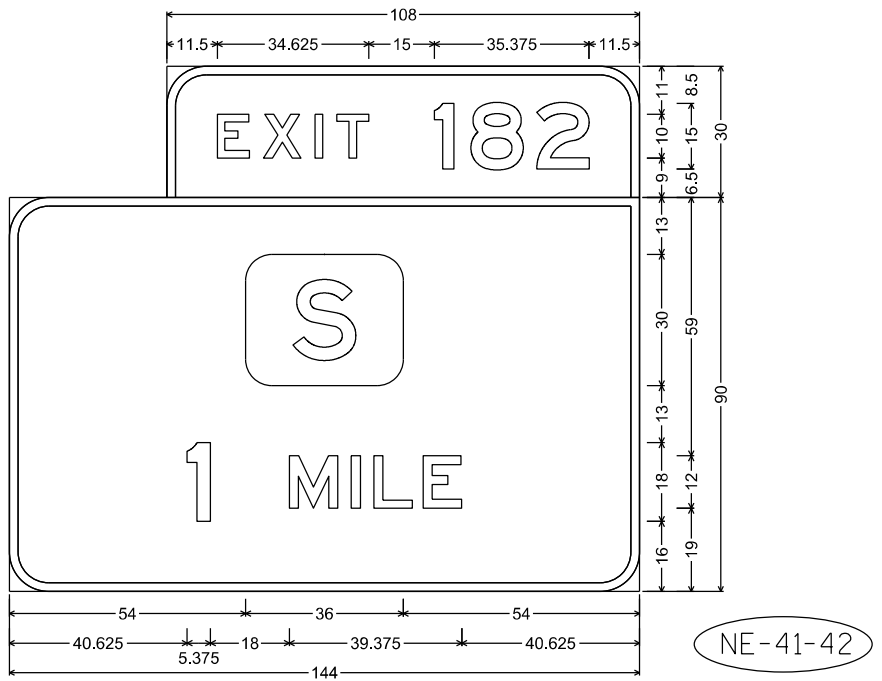
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E6-1; 12.000" Radius, 3.000" Border

NE-41-39



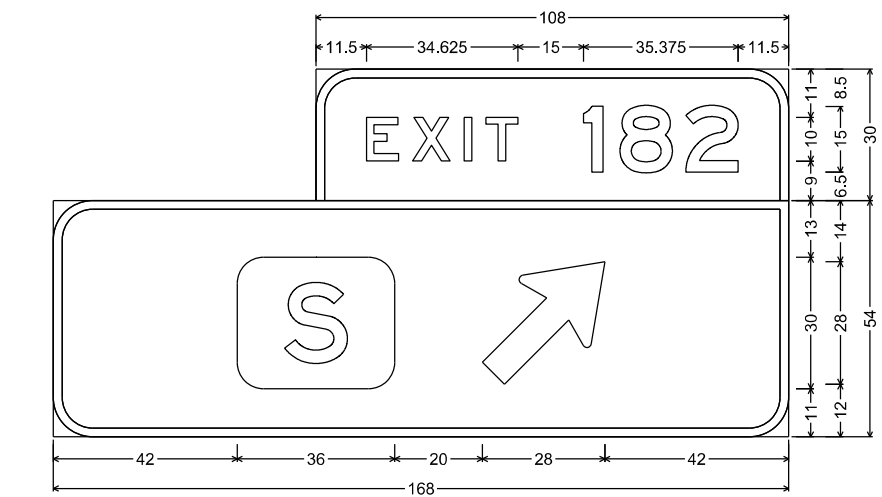
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E1-1A; 12.000" Radius, 3.000" Border

NE-41-40



E1-5P; 9.000" Radius, 2.000" Border
 E1-1A; 9.000" Radius, 2.000" Border

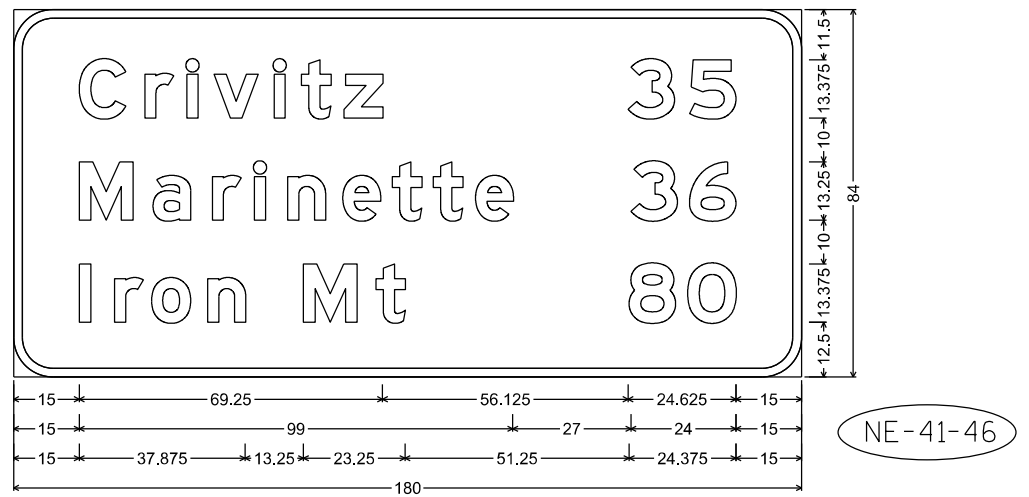
NE-41-42
 NE-41-80



E1-5P; 9.000" Radius, 2.000" Border
 E4-1A; 9.000" Radius, 2.000" Border

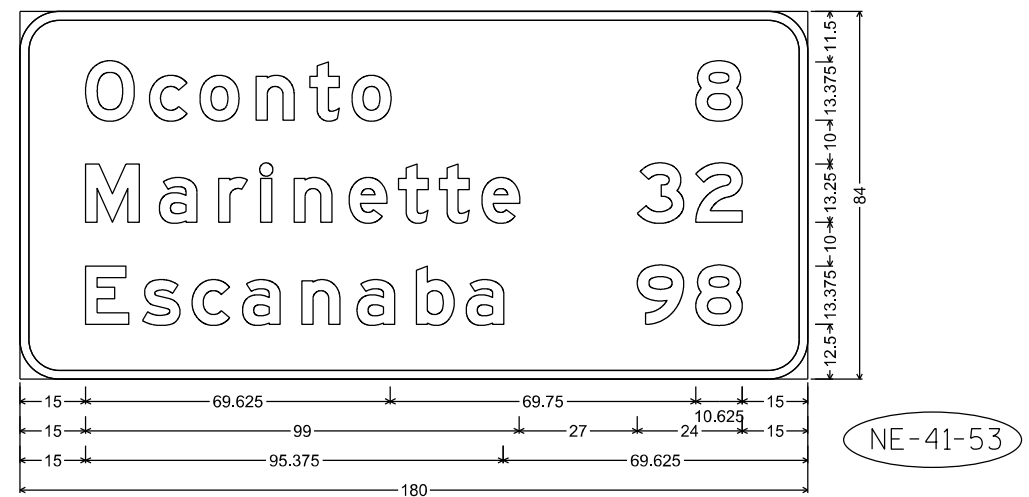
NE-41-43
 NE-41-81

- NOTES**
1. All Signs Type I - Type SH Reflective
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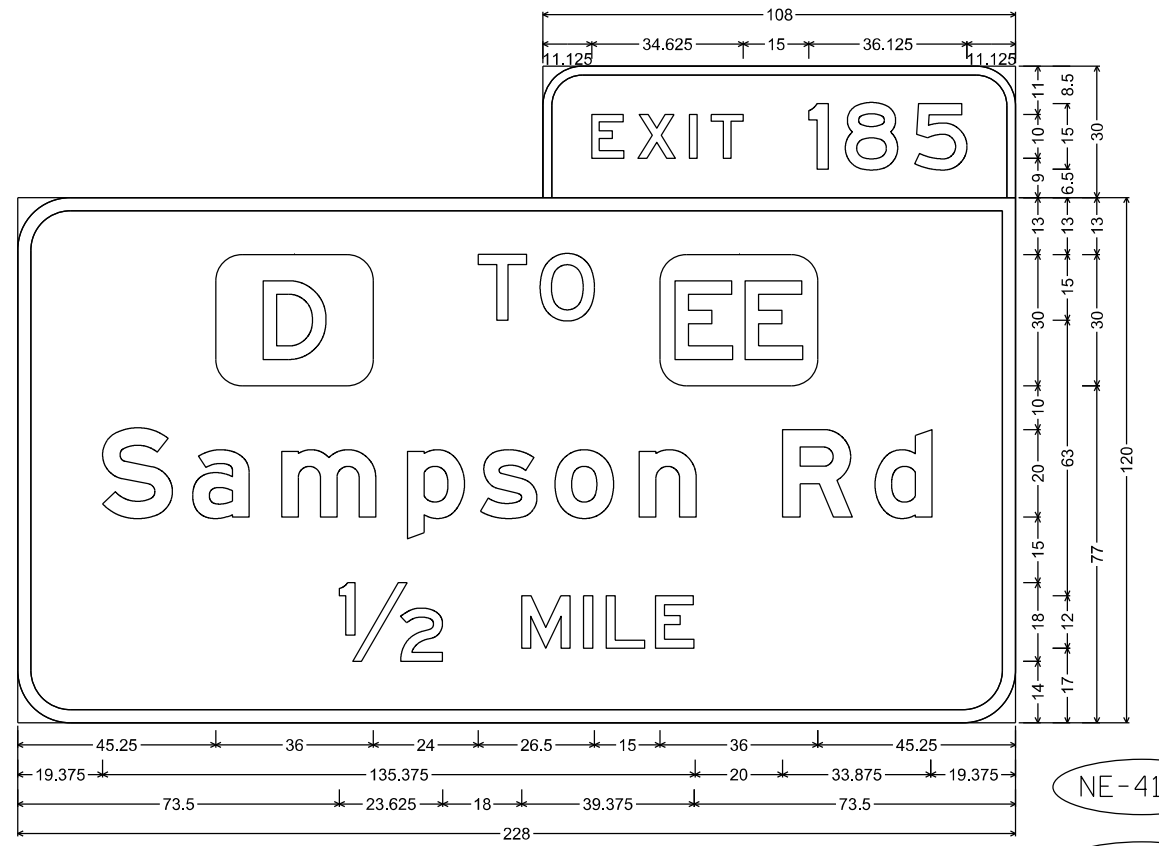
D2-3; 9.000" Radius, 2.000" Border

NE-41-46



D2-3; 9.000" Radius, 2.000" Border

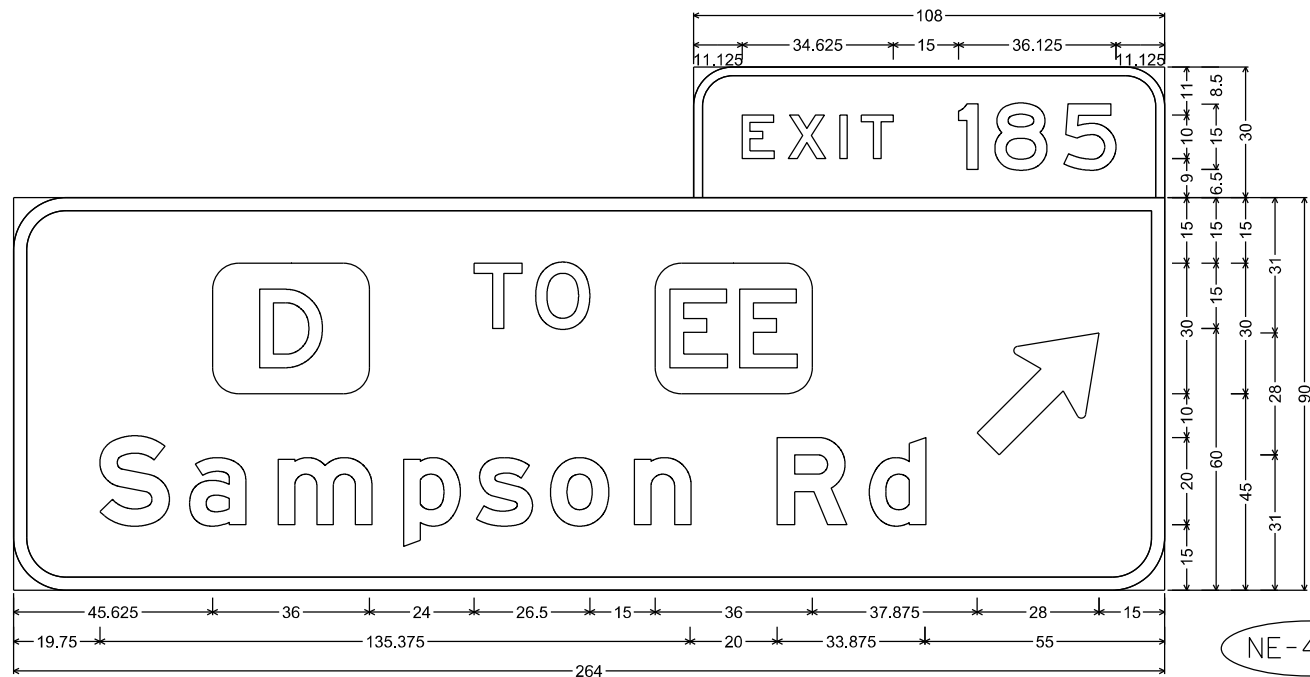
NE-41-53



E1-5P; 9.000" Radius, 2.000" Border
 E1-1A; 12.000" Radius, 3.000" Border

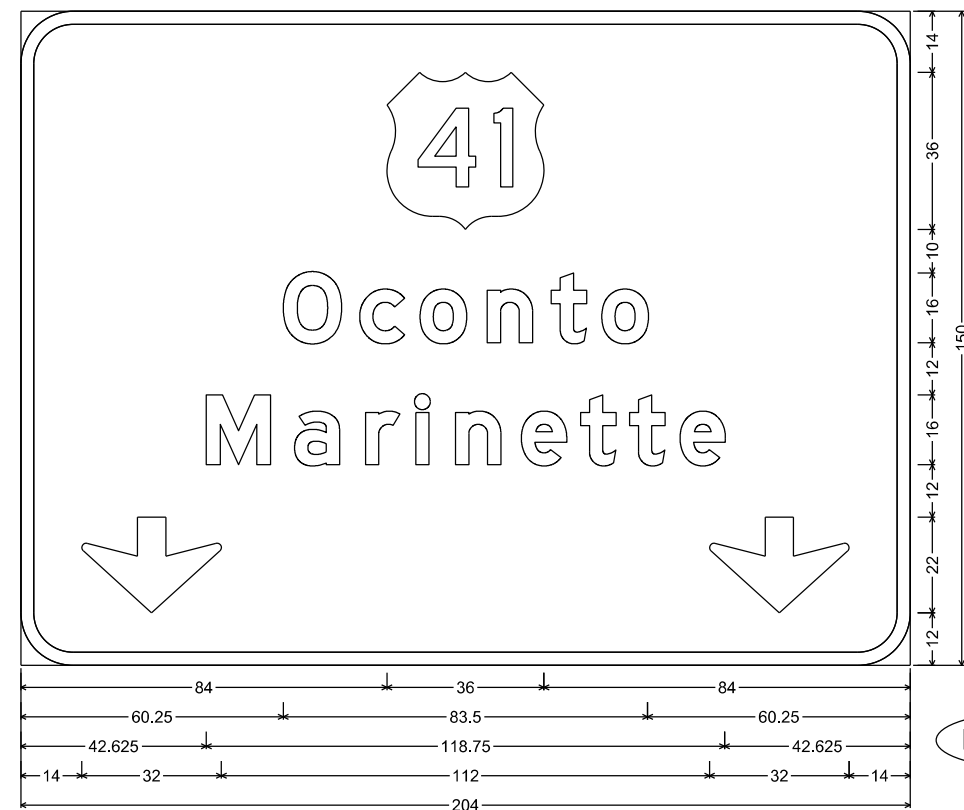
NE-41-49

NE-41-72



E1-5P; 9.000" Radius, 2.000" Border
 E4-1A; 12.000" Radius, 3.000" Border

NE-41-50
 NE-41-74

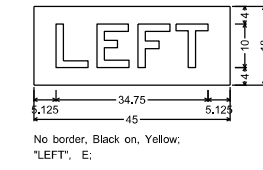


E6-51; 12.000" Radius, 3.000" Border

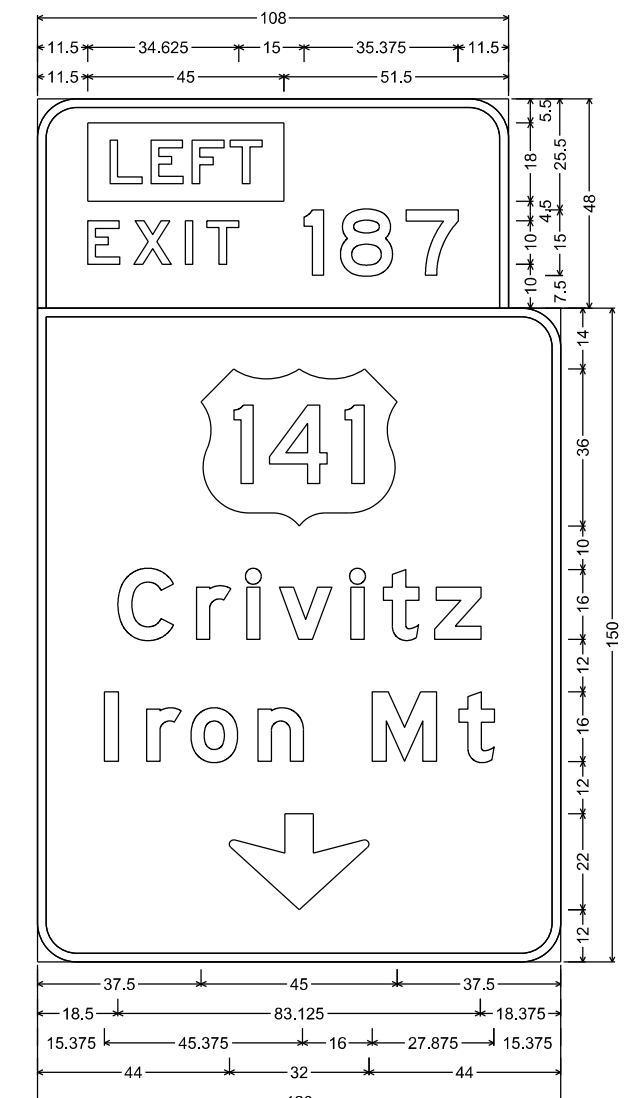
NE-41-52

NOTES

1. All Signs Type I - Type SH Reflective
2. Color:
 Background - Green
 Message - White
3. Message Series - E Modified except all CAP words Series E
4. Left Plaque on Yellow Type F Reflective Sheeting with Black Non-Reflective Message



No border, Black on, Yellow.
 "LEFT", E:

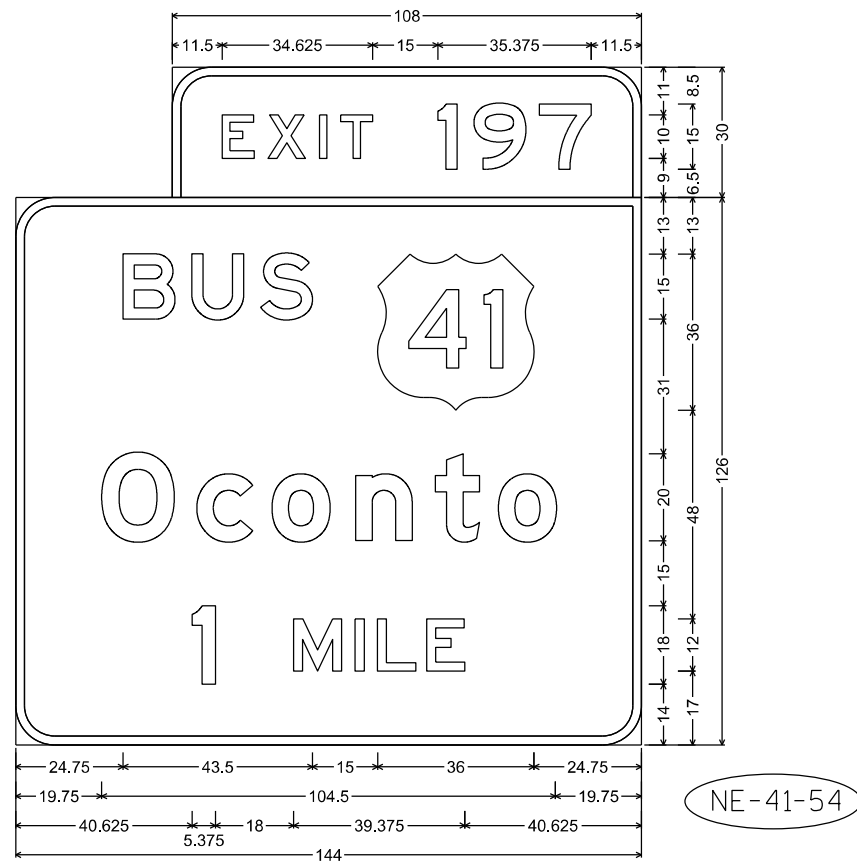


E1-5BP; 9.000" Radius, 2.000" Border, White on, Green; Rectangle Yellow
 E6-51; 9.000" Radius, 2.000" Border

NE-41-51

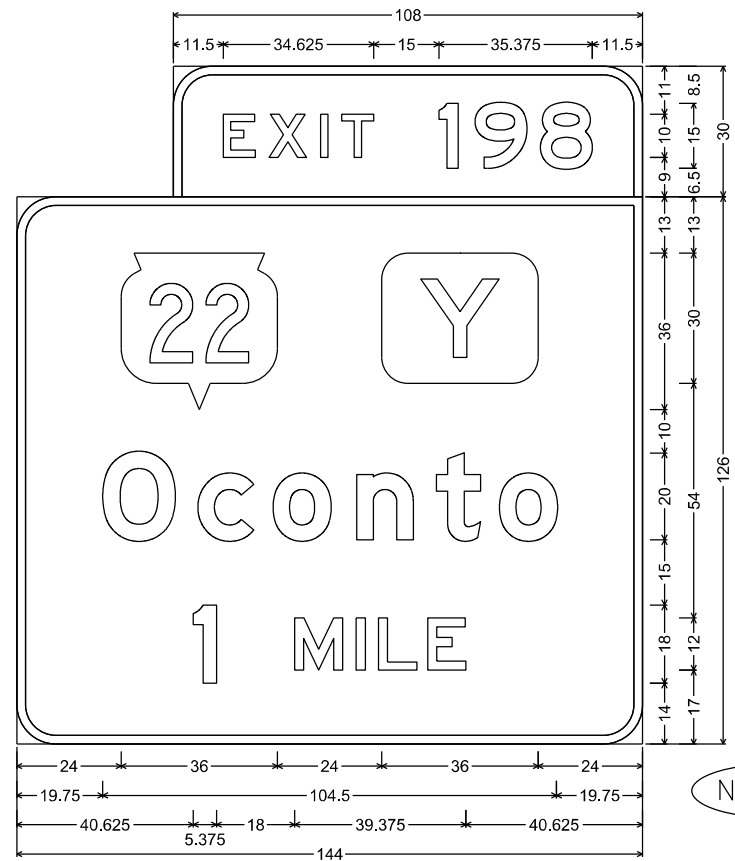
NOTES

1. All Signs Type I - Type SH Reflective
2. Color:
Background - Green
Message - White
3. Message Series - E Modified except all CAP words Series E



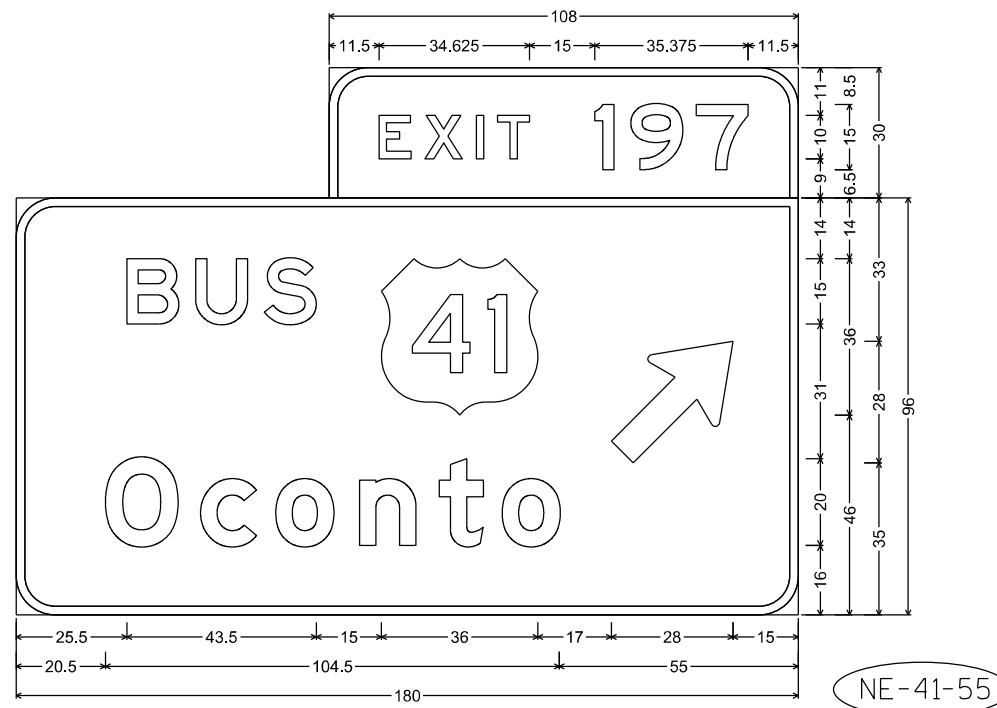
NE-41-54

E1-5P; 9.000" Radius, 2.000" Border
E1-1A; 9.000" Radius, 2.000" Border



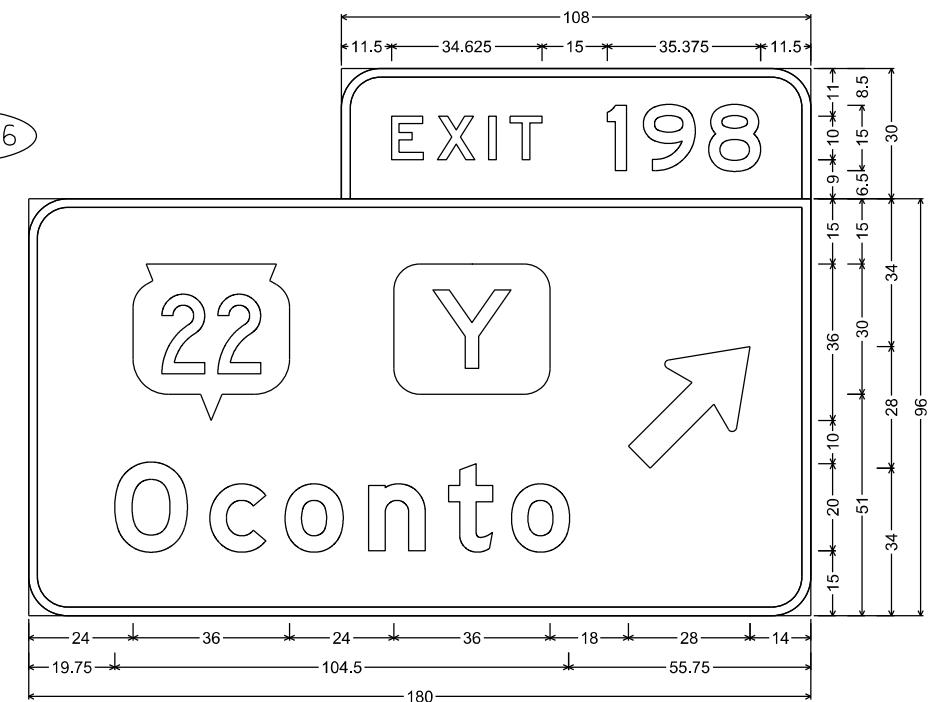
NE-41-56

E1-5P; 9.000" Radius, 2.000" Border
E1-1A; 9.000" Radius, 2.000" Border



NE-41-55

E1-5P; 9.000" Radius, 2.000" Border
E4-1A; 9.000" Radius, 2.000" Border

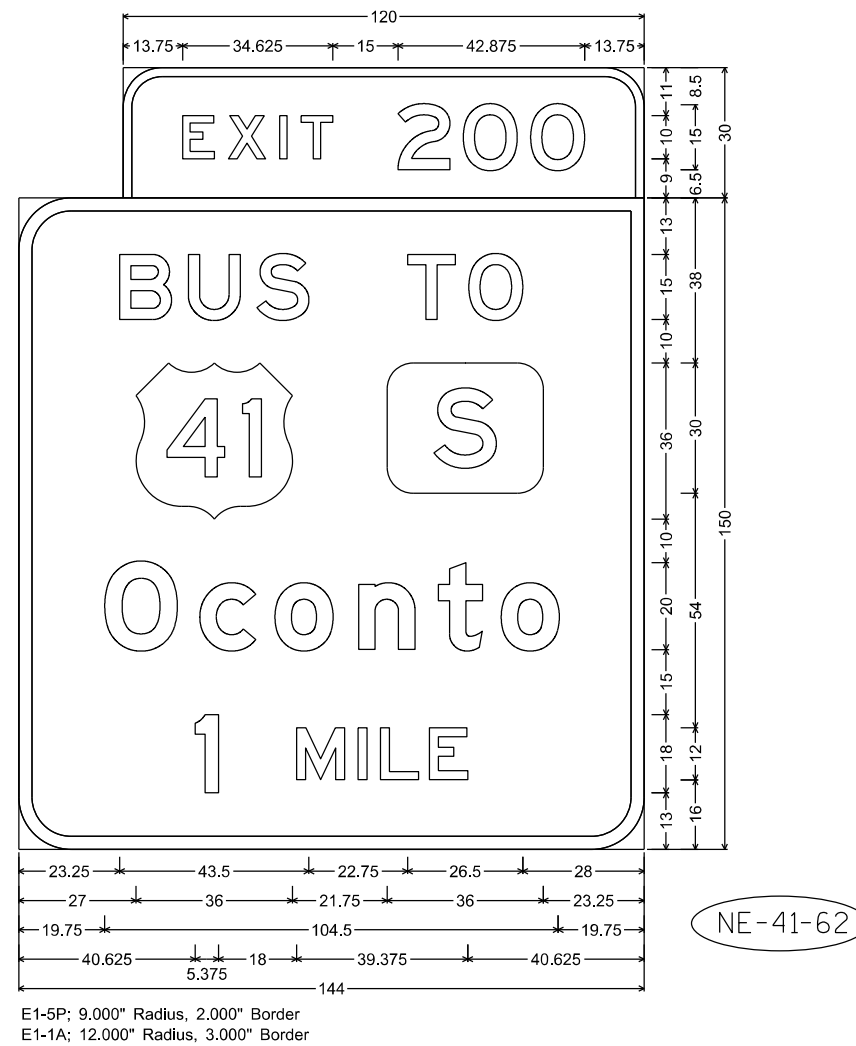
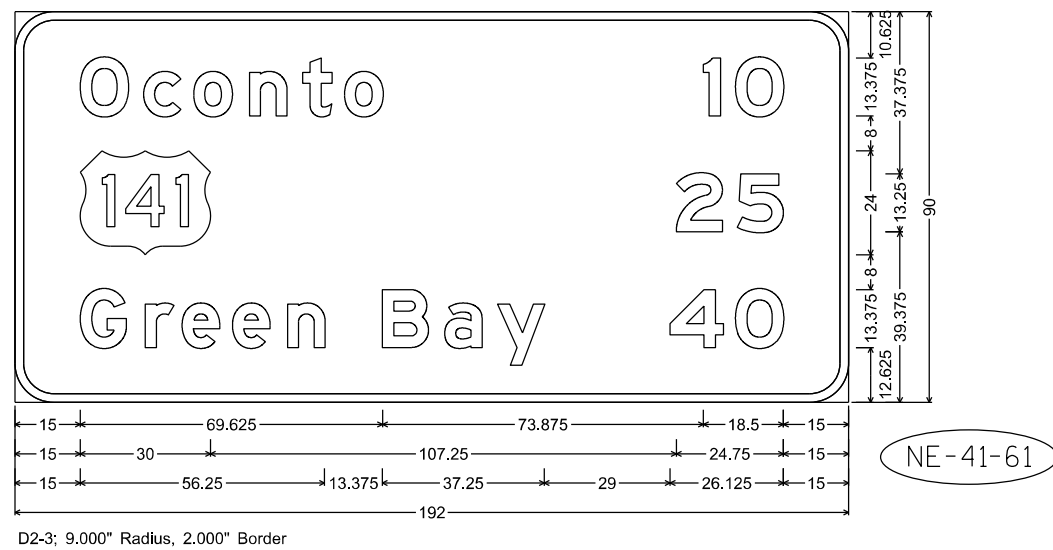
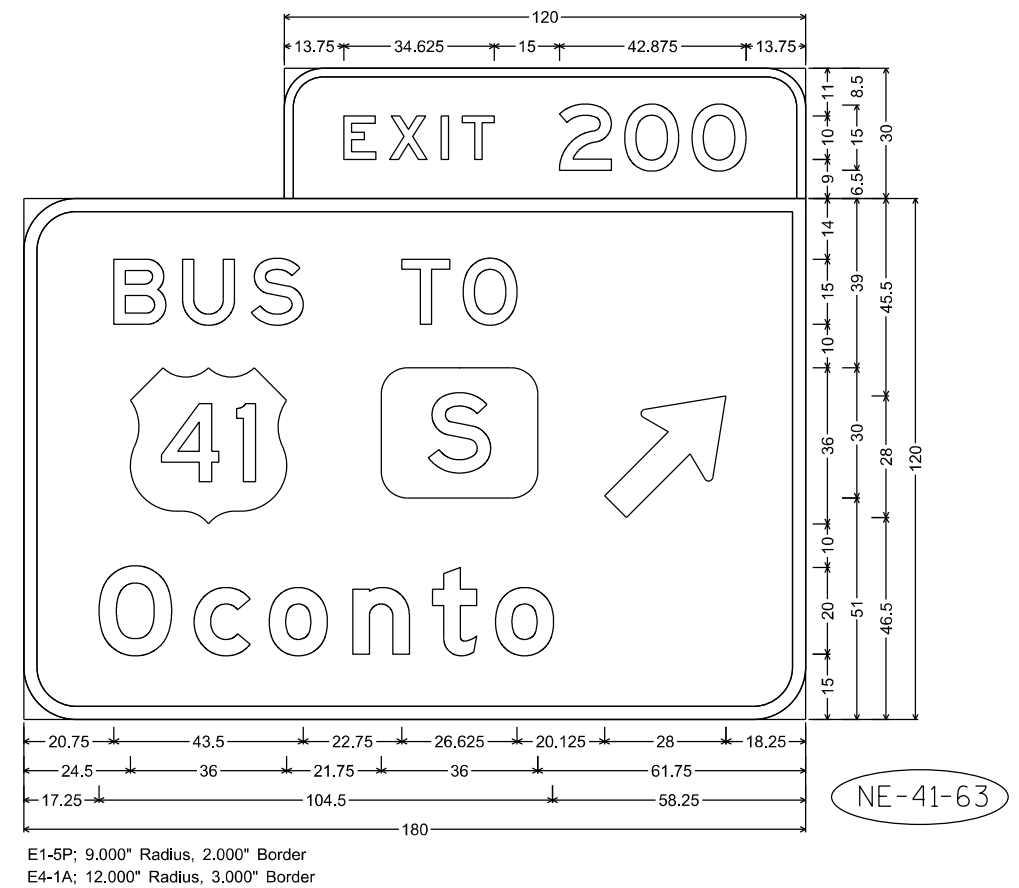
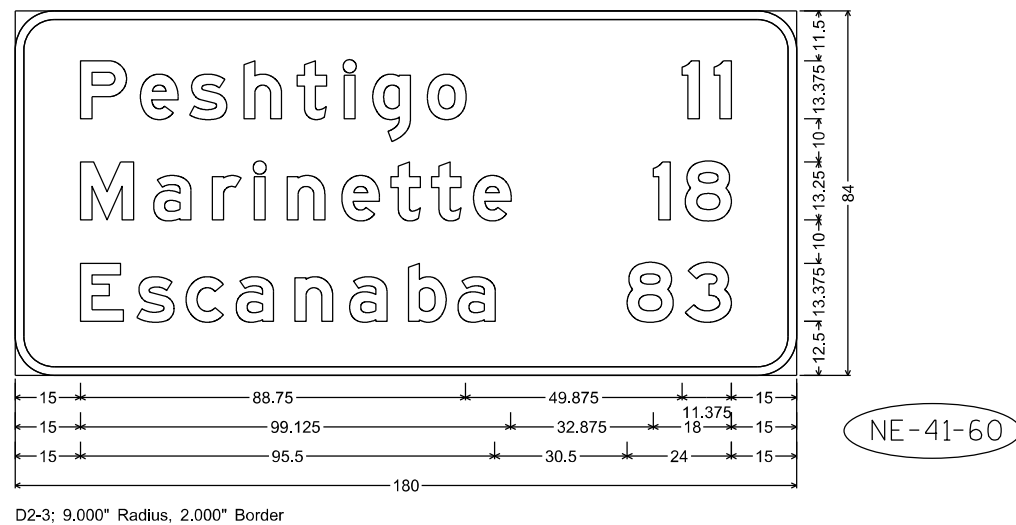


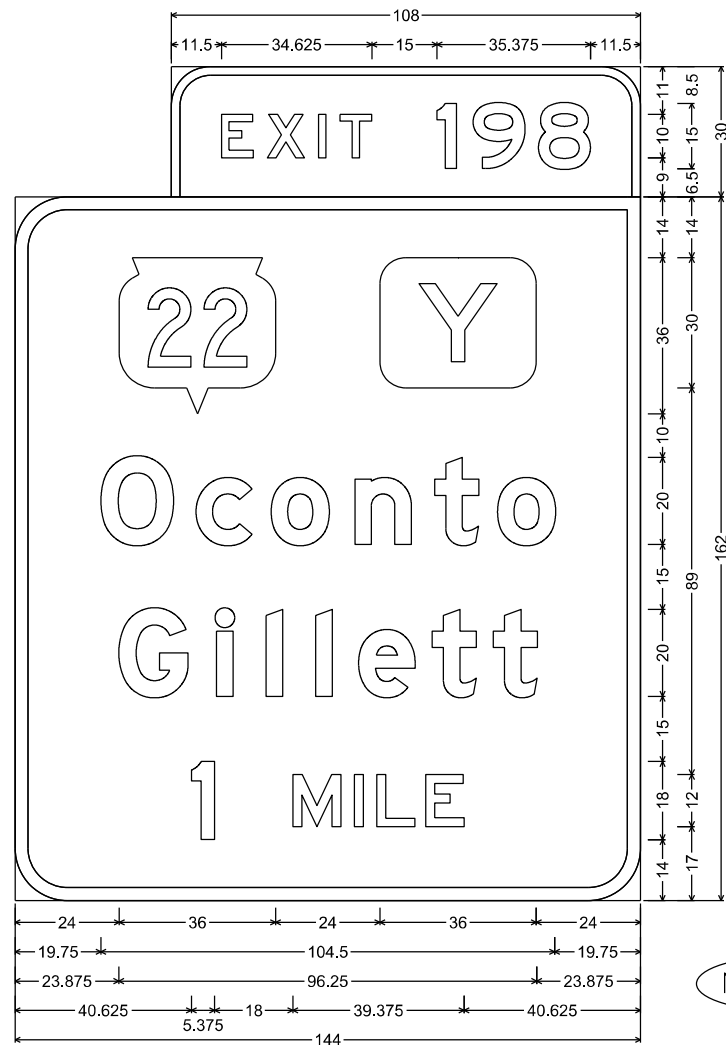
NE-41-59

E1-5P; 9.000" Radius, 2.000" Border
E4-1A; 9.000" Radius, 2.000" Border

NOTES

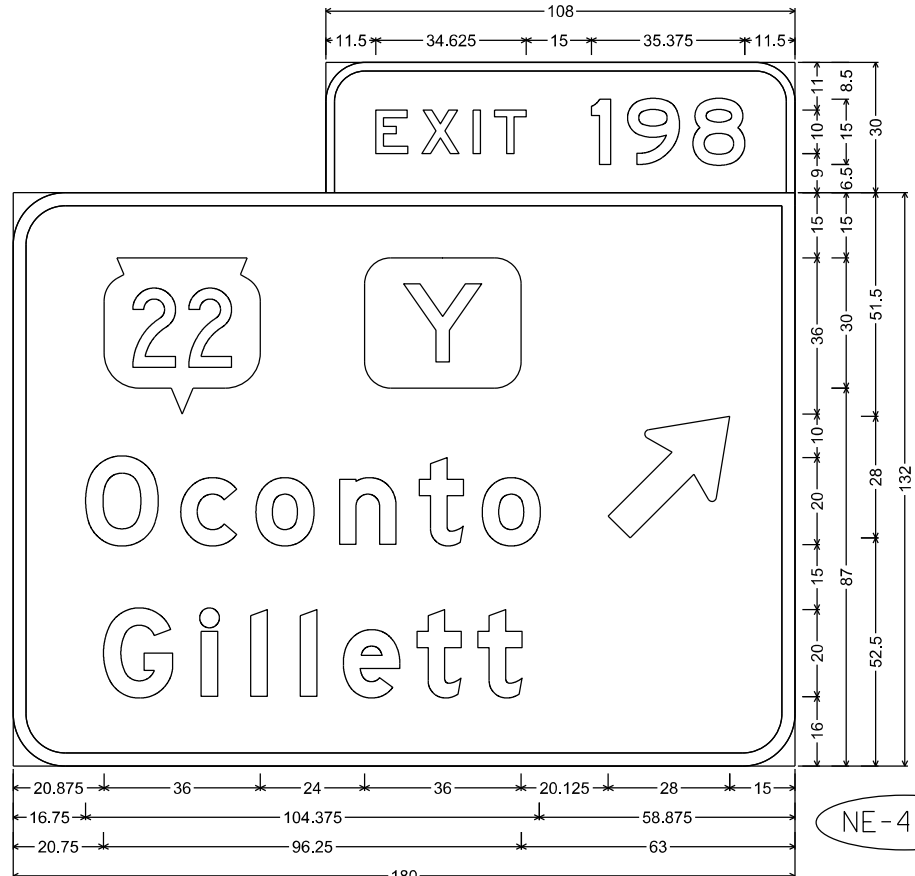
1. All Signs Type I - Type SH Reflective
2. Color:
Background - Green
Message - White
3. Message Series - E Modified except all CAP words Series E





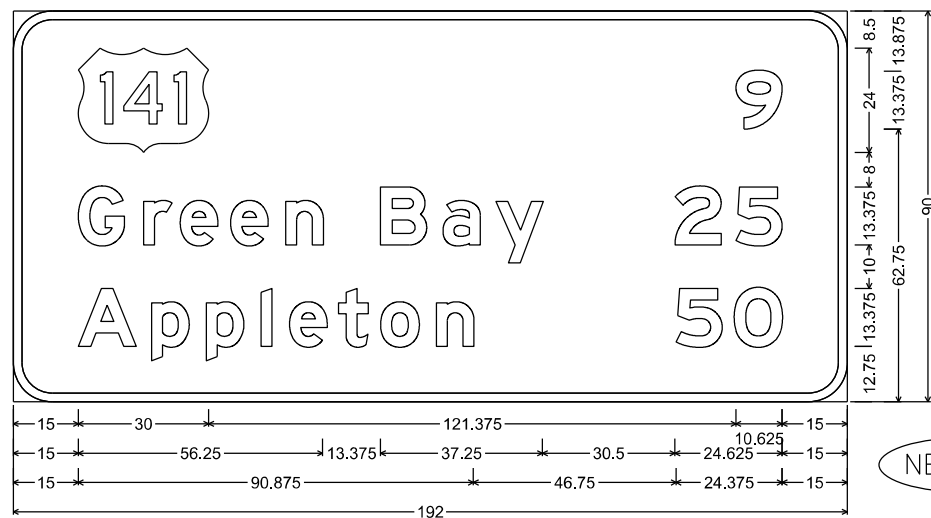
NE-41-64

E1-5P; 9.000" Radius, 2.000" Border
E1-1A; 12.000" Radius, 3.000" Border



NE-41-66

E1-5P; 9.000" Radius, 2.000" Border
E4-1A; 12.000" Radius, 3.000" Border

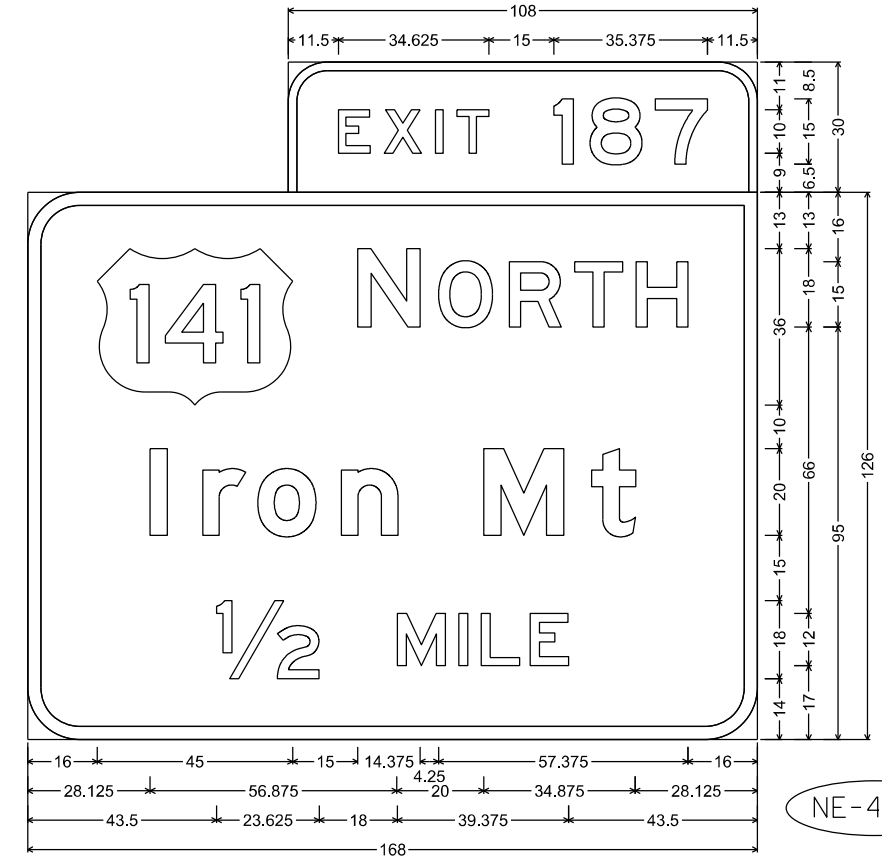


NE-41-68

D2-3; 9.000" Radius, 2.000" Border

NOTES

1. All Signs Type I - Type SH Reflective
2. Color:
Background - Green
Message - White
3. Message Series - E Modified except all CAP words Series E

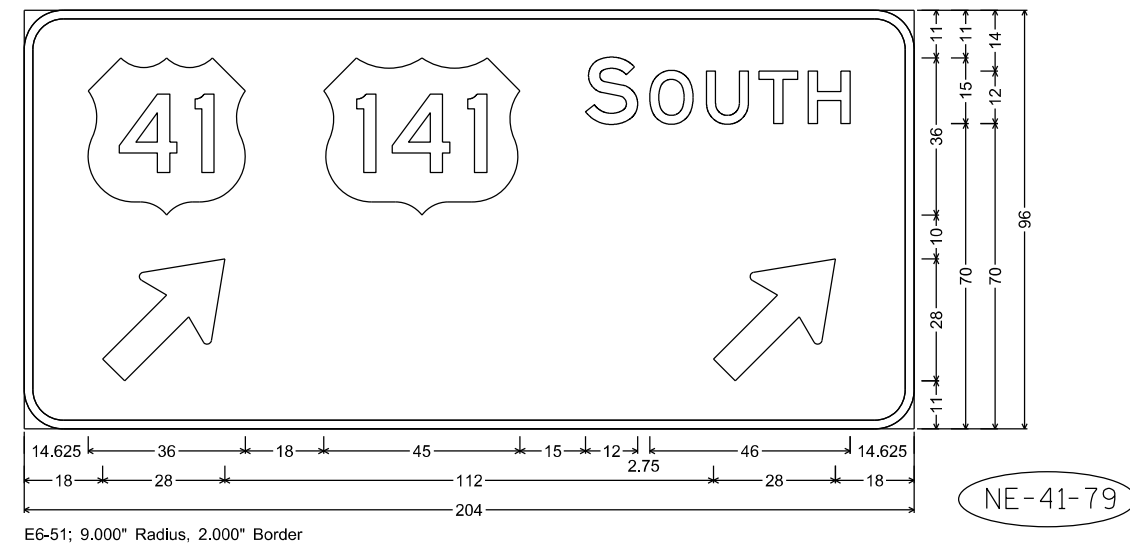
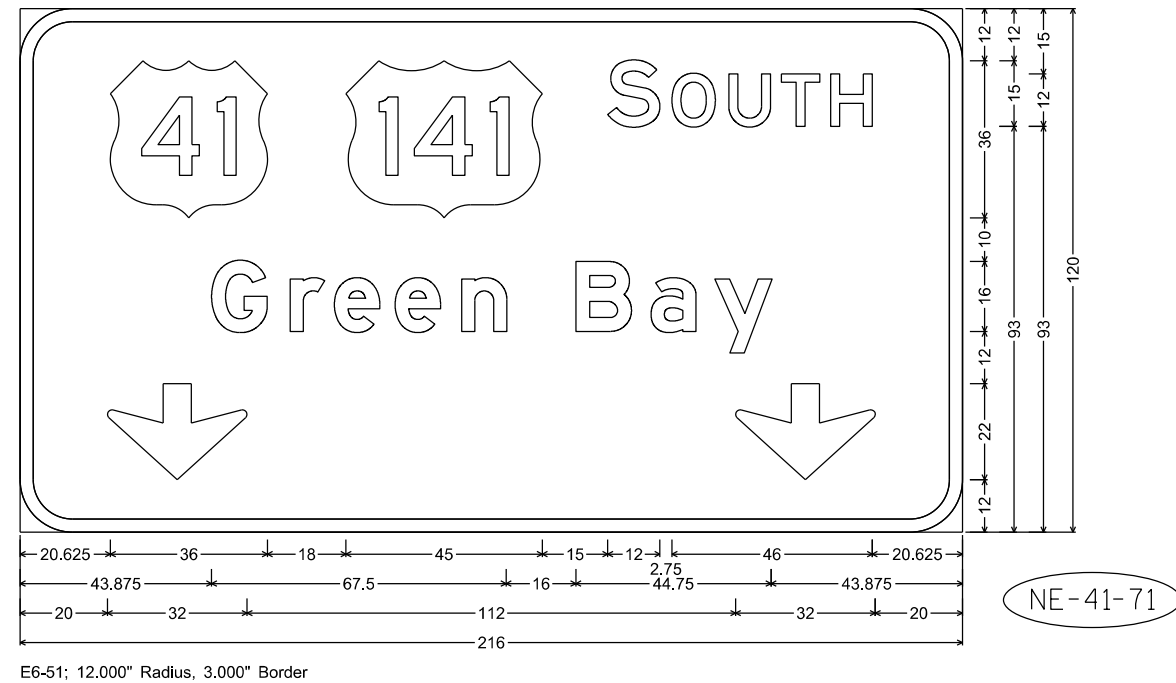
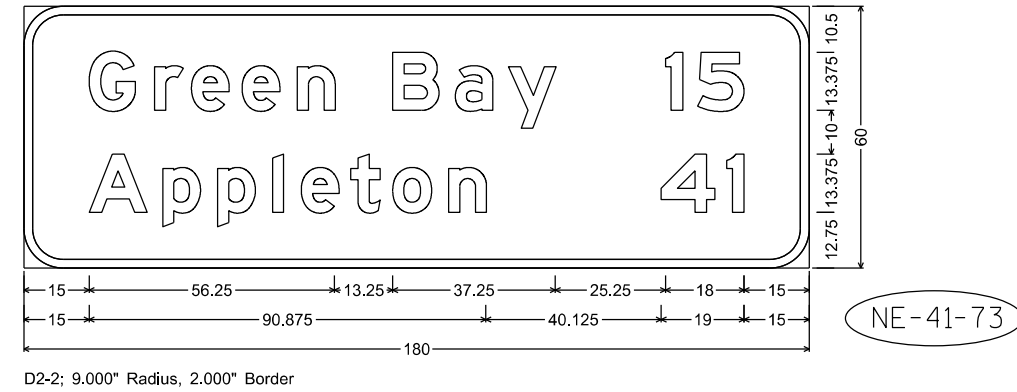
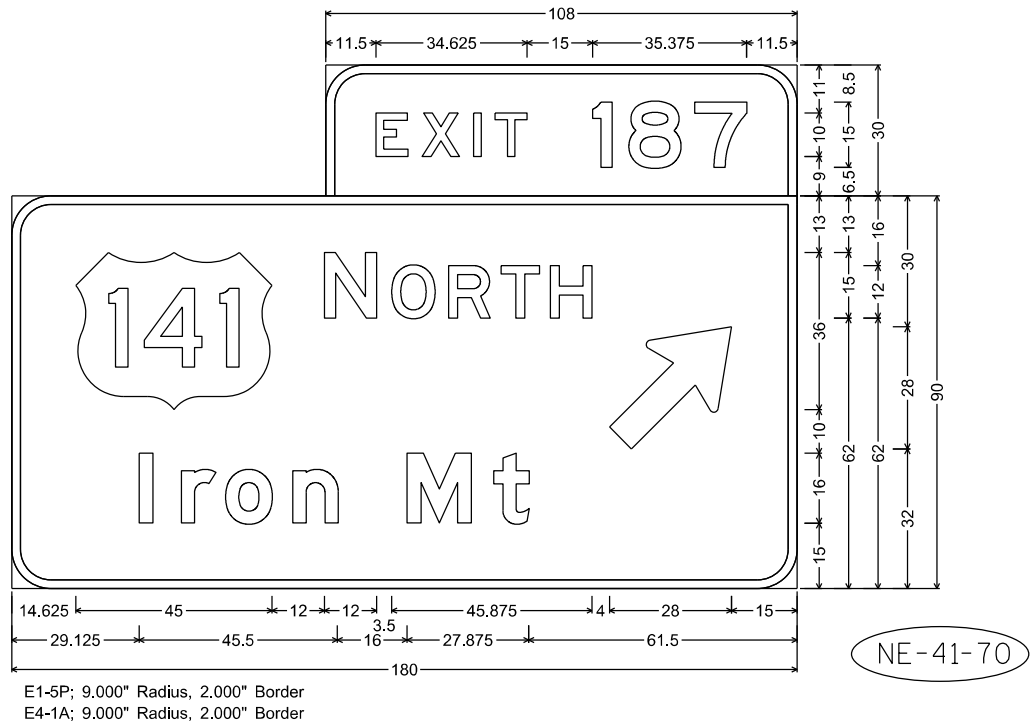


NE-41-69

E1-5P; 9.000" Radius, 2.000" Border
E1-1A; 12.000" Radius, 3.000" Border

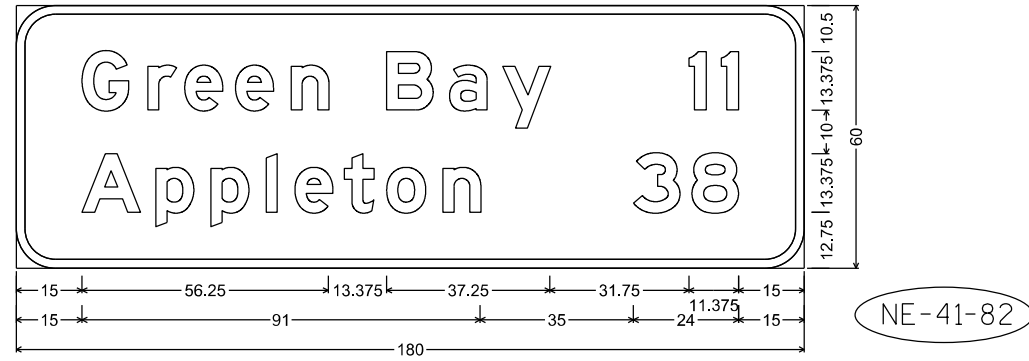
NOTES

1. All Signs Type I - Type SH Reflective
2. Color:
Background - Green
Message - White
3. Message Series - E Modified except all CAP words Series E

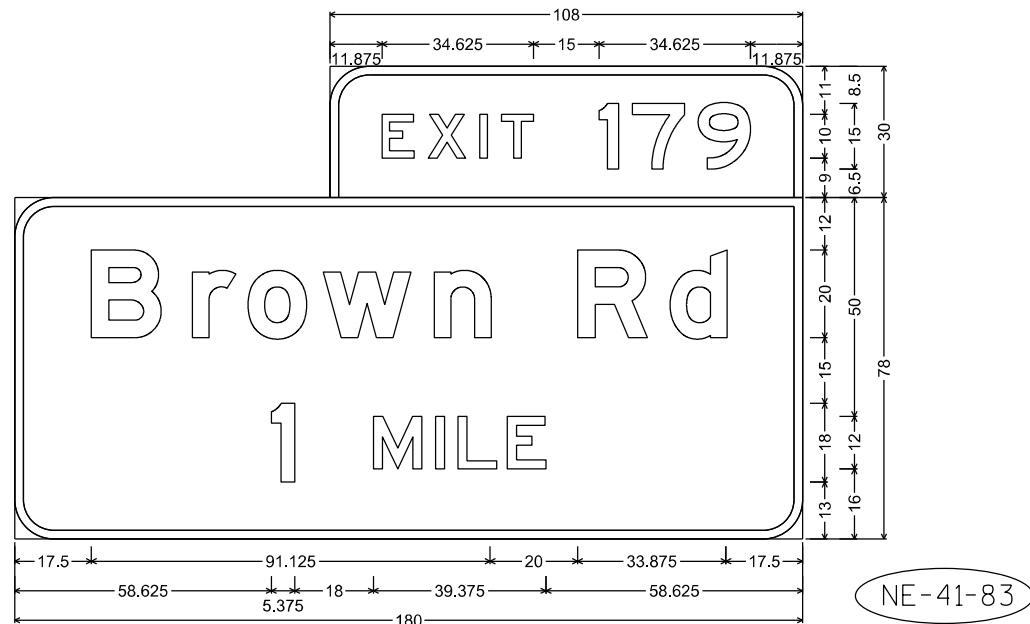


NOTES

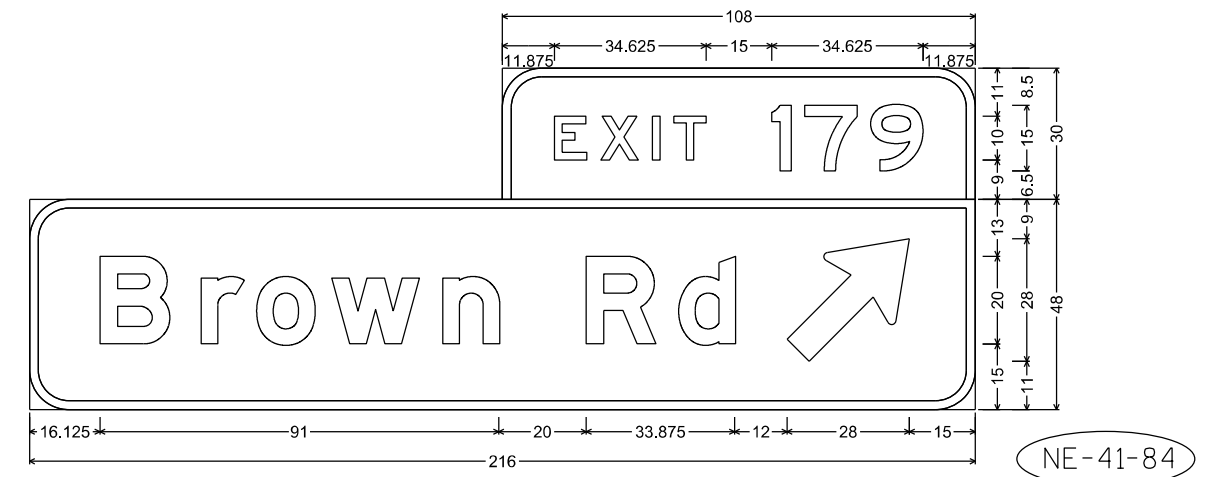
1. All Signs Type I - Type SH Reflective
2. Color:
 - Background - Green
 - Message - White
3. Message Series - E Modified except all CAP words Series E



D2-2; 9.000" Radius, 2.000" Border



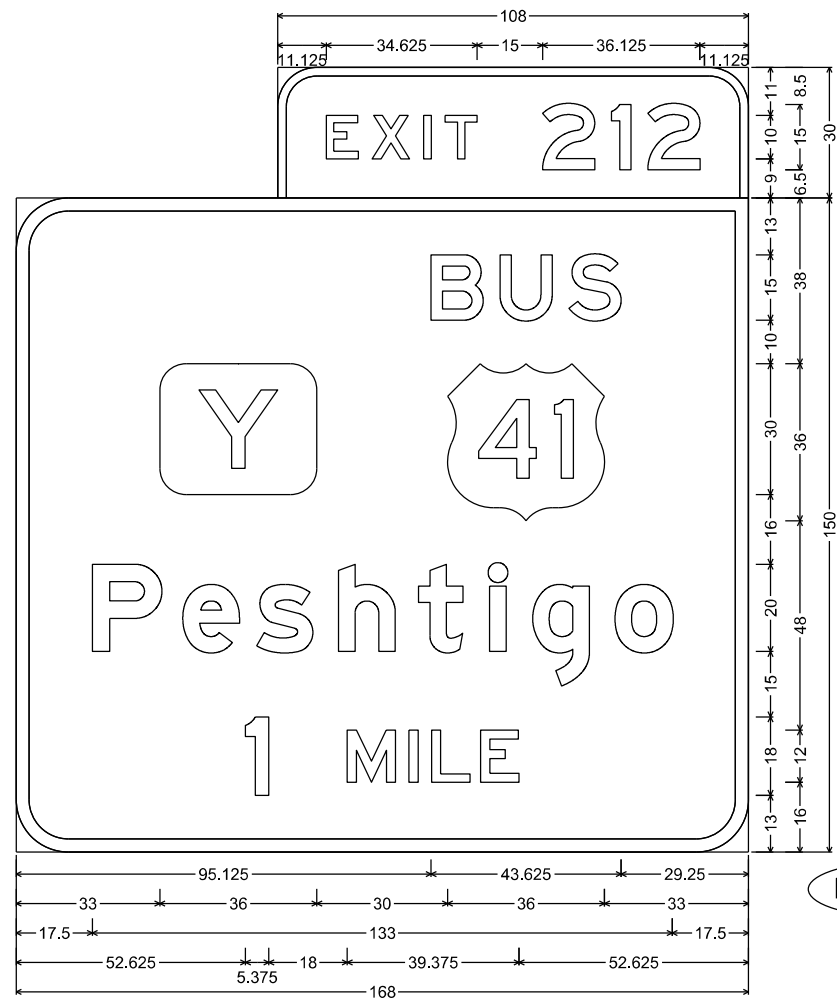
E1-5P; 9.000" Radius, 2.000" Border
E1-1A; 9.000" Radius, 2.000" Border



E1-5P; 9.000" Radius, 2.000" Border
E4-1A; 9.000" Radius, 2.000" Border

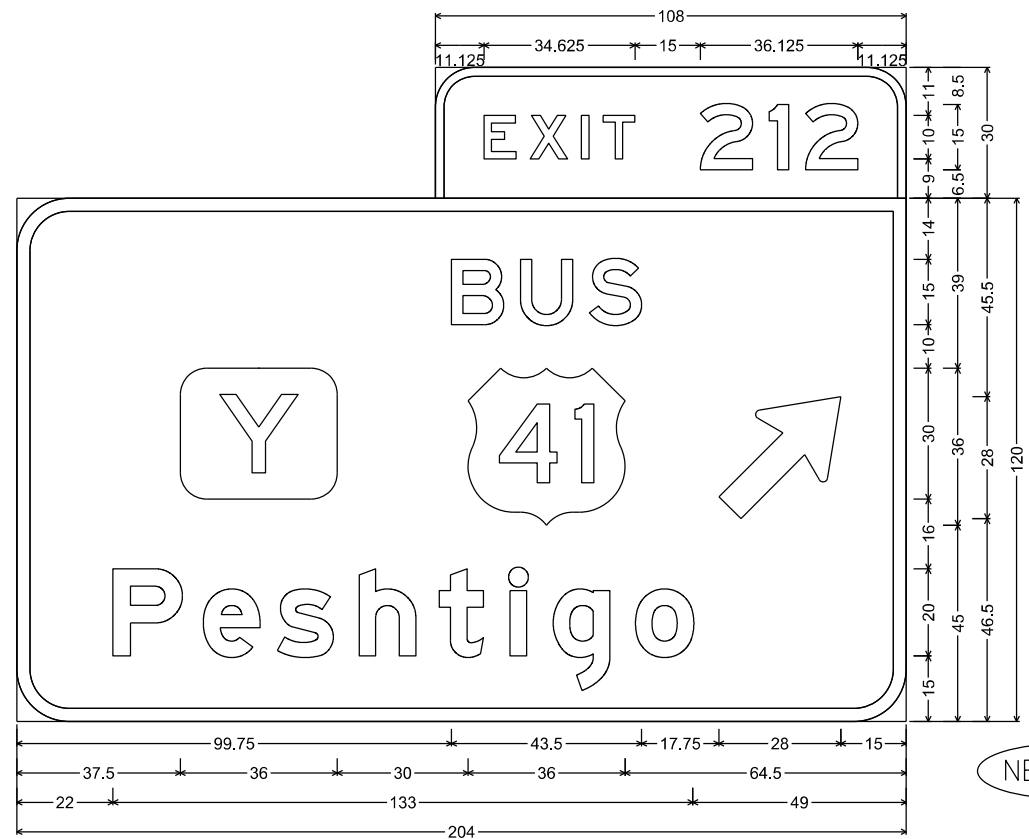
NOTES

1. All Signs Type I - Type SH Reflective
2. Color:
Background - Green
Message - White
3. Message Series - E Modified except all CAP words Series E



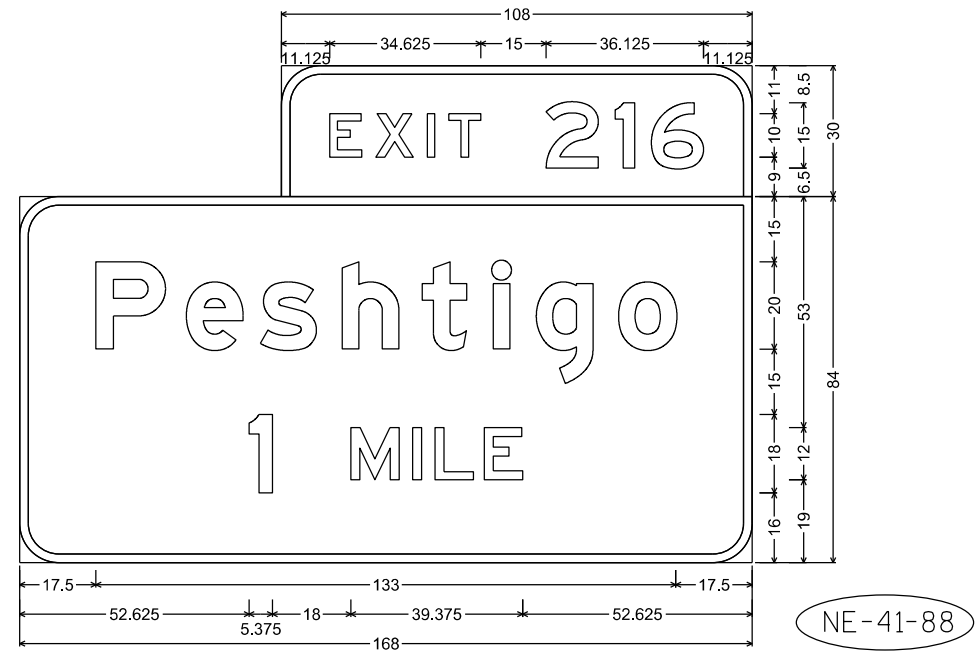
NE-41-85

E1-5P; 9.000" Radius, 2.000" Border
E1-1A; 12.000" Radius, 3.000" Border



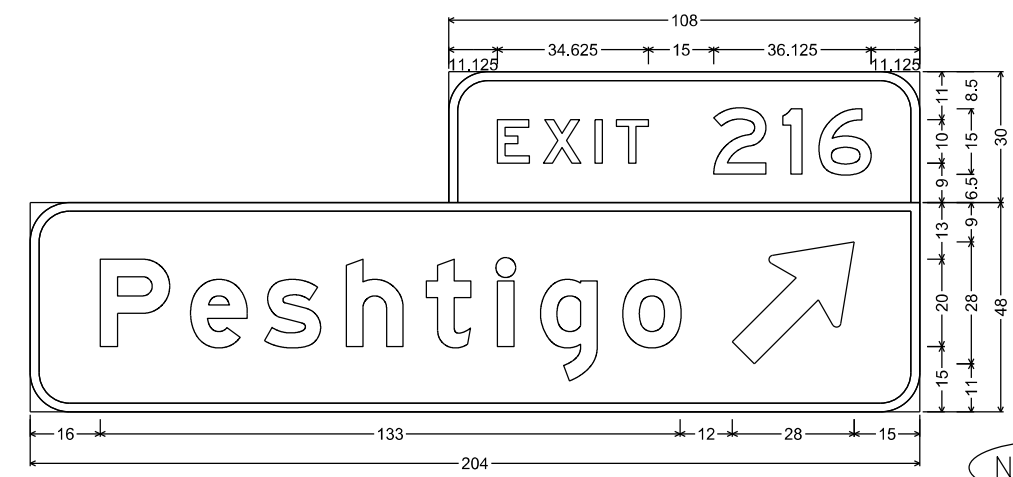
NE-41-86

E1-5P; 9.000" Radius, 2.000" Border
E4-1A; 12.000" Radius, 3.000" Border



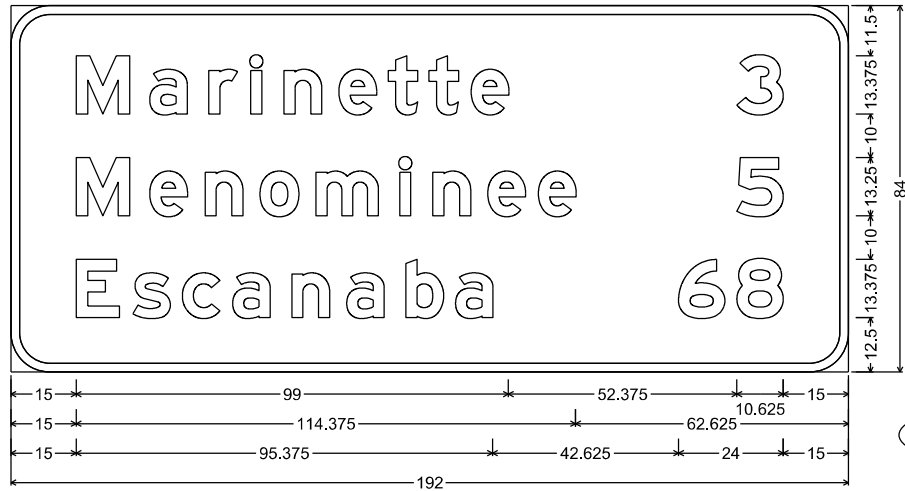
NE-41-88

E1-5P; 9.000" Radius, 2.000" Border
E1-1A; 9.000" Radius, 2.000" Border



NE-41-89

E1-5P; 9.000" Radius, 2.000" Border
E4-1A; 9.000" Radius, 2.000" Border

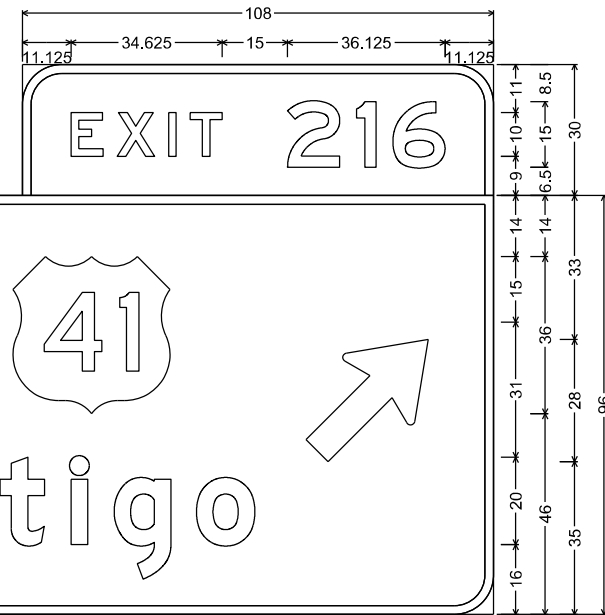


NE-41-90

D2-3; 9.000" Radius, 2.000" Border

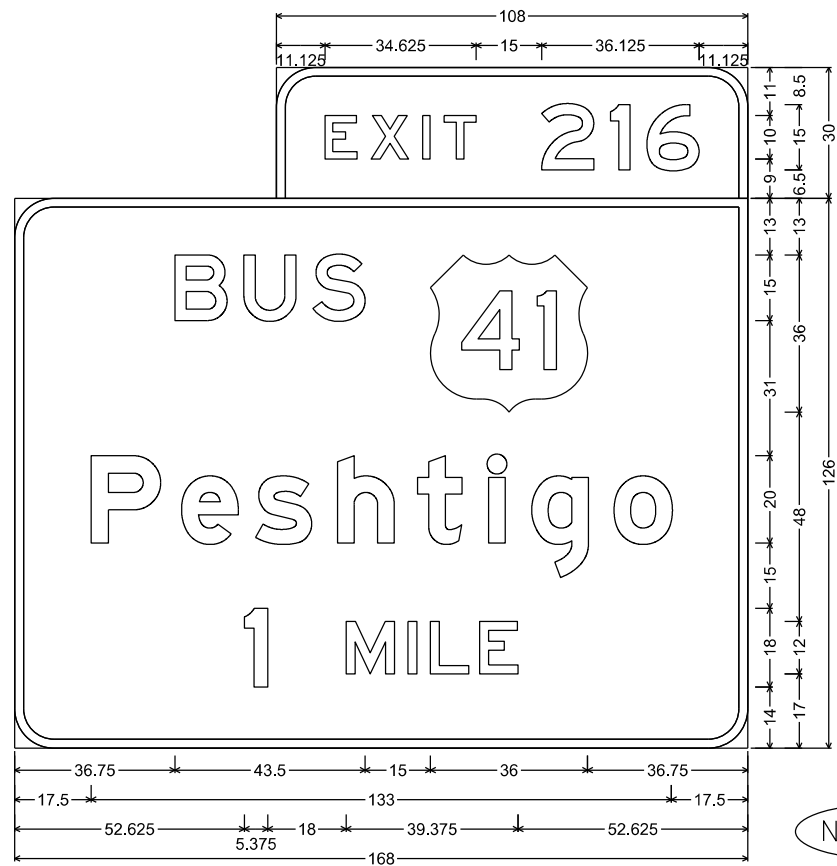
NOTES

1. All Signs Type I - Type SH Reflective
2. Color:
Background - Green
Message - White
3. Message Series - E Modified except all CAP words Series E



NE-41-92

E1-5P; 9.000" Radius, 2.000" Border
E4-1A; 9.000" Radius, 2.000" Border



NE-41-91

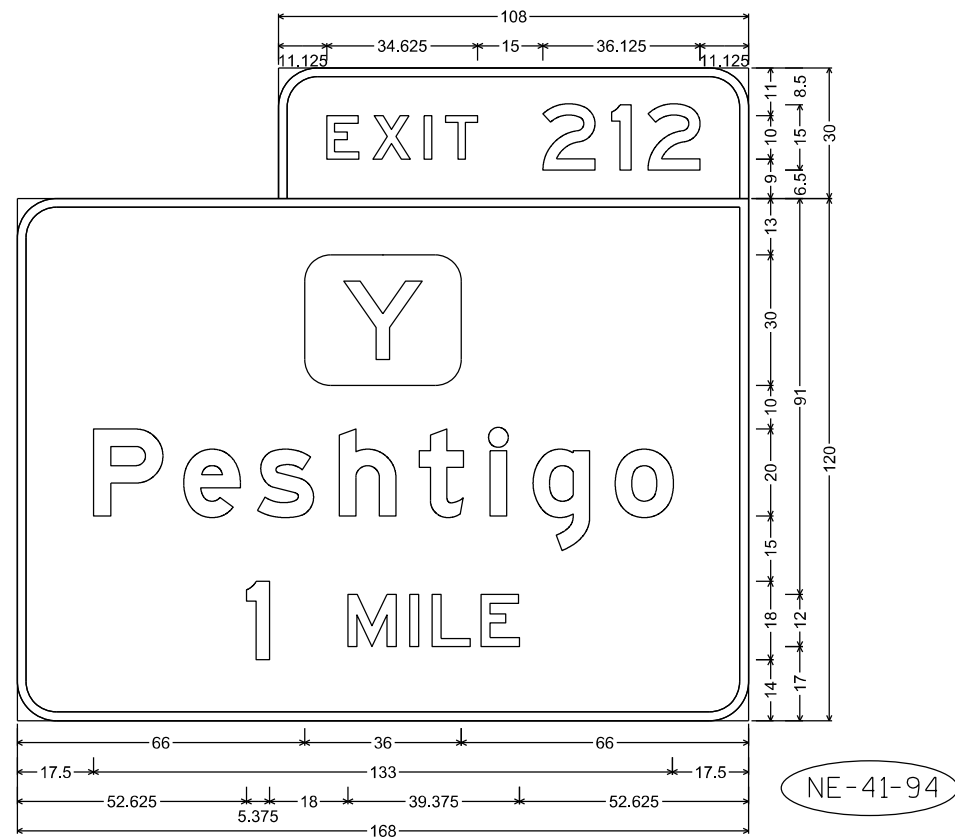
E1-5P; 9.000" Radius, 2.000" Border
E1-1A; 9.000" Radius, 2.000" Border

7

7

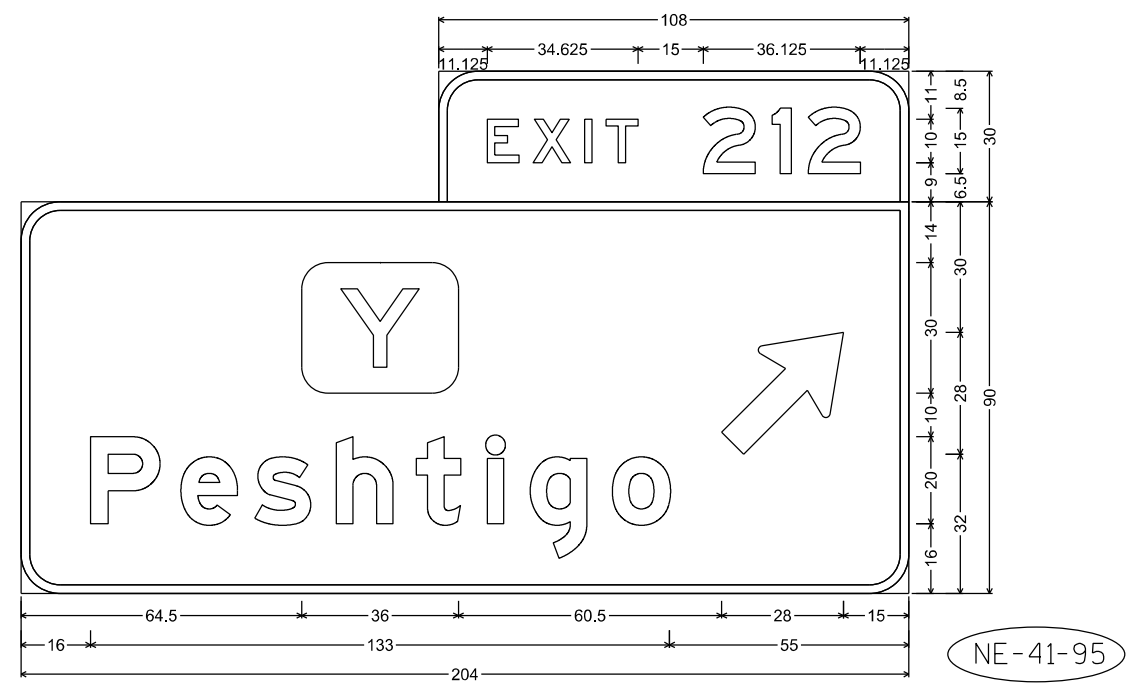
NOTES

1. All Signs Type I - Type SH Reflective
2. Color:
Background - Green
Message - White
3. Message Series - E Modified except all CAP words Series E



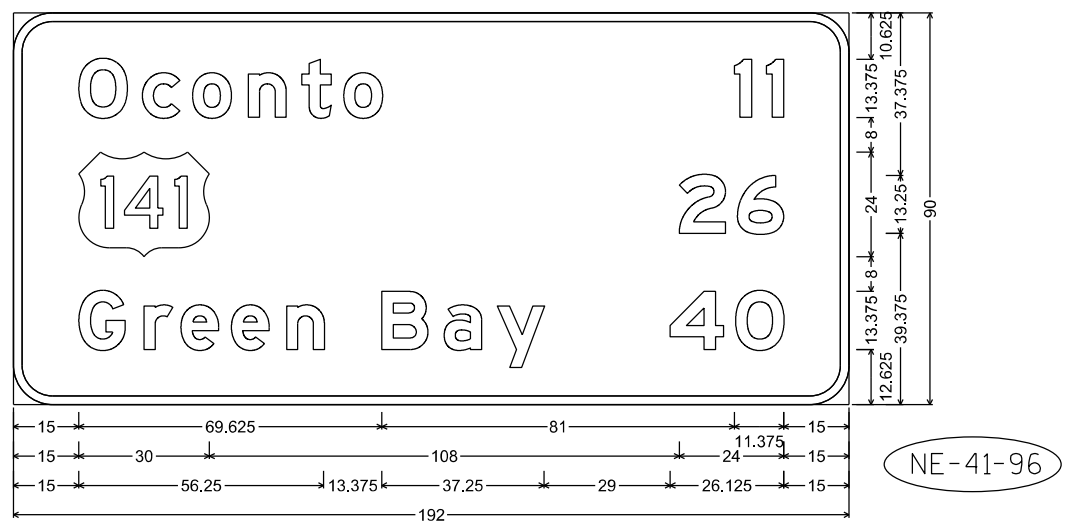
E1-5P; 9.000" Radius, 2.000" Border
E1-1A; 9.000" Radius, 2.000" Border

NE-41-94



E1-5P; 9.000" Radius, 2.000" Border
E4-1A; 9.000" Radius, 2.000" Border

NE-41-95

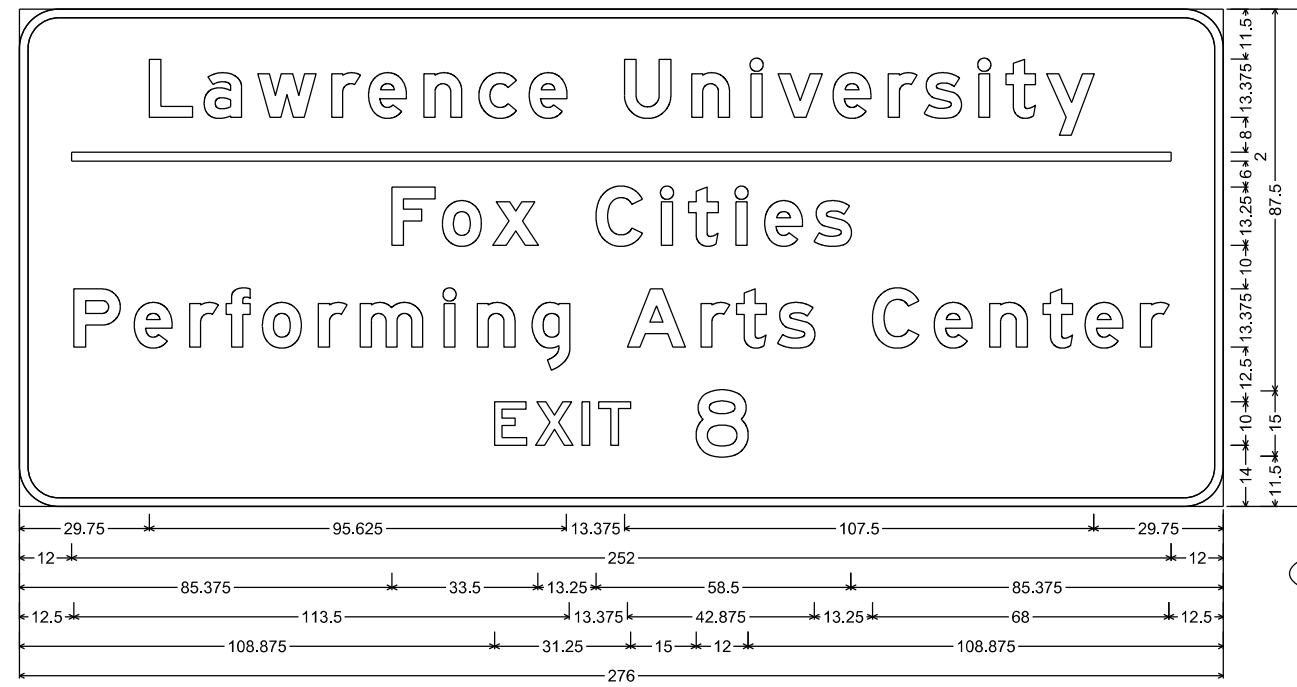


D2-3; 9.000" Radius, 2.000" Border

NE-41-96

NOTES

1. Sign is Type I - Type SH Reflective
2. Color:
Background - Green
Message - White
3. Message Series - E Modified except all CAP words Series E



E3-1; 9.000" Radius, 2.000" Border

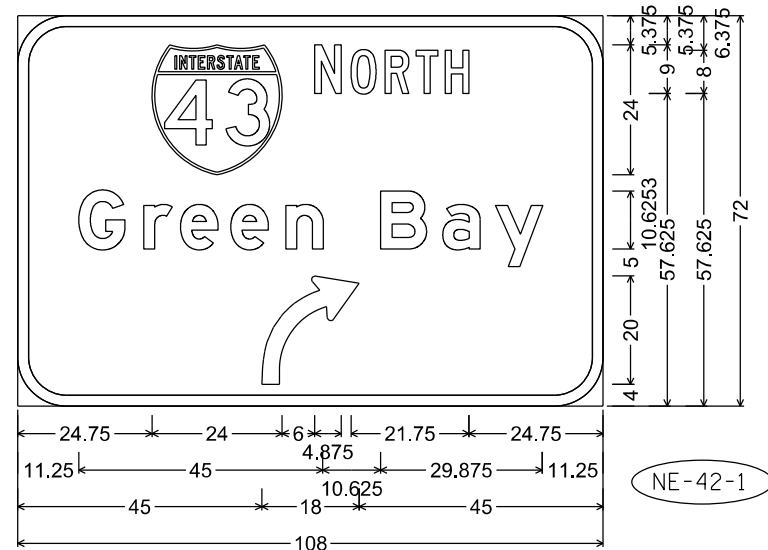
NE-441-1

7

7

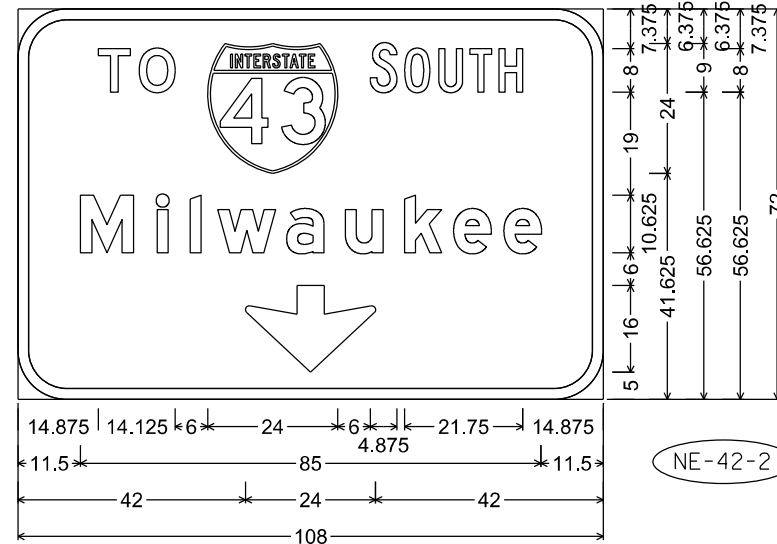
NOTES

1. All Signs Type I - Type SH Reflective
2. Color:
Background - Green
Message - White
3. Message Series - E Modified except as noted



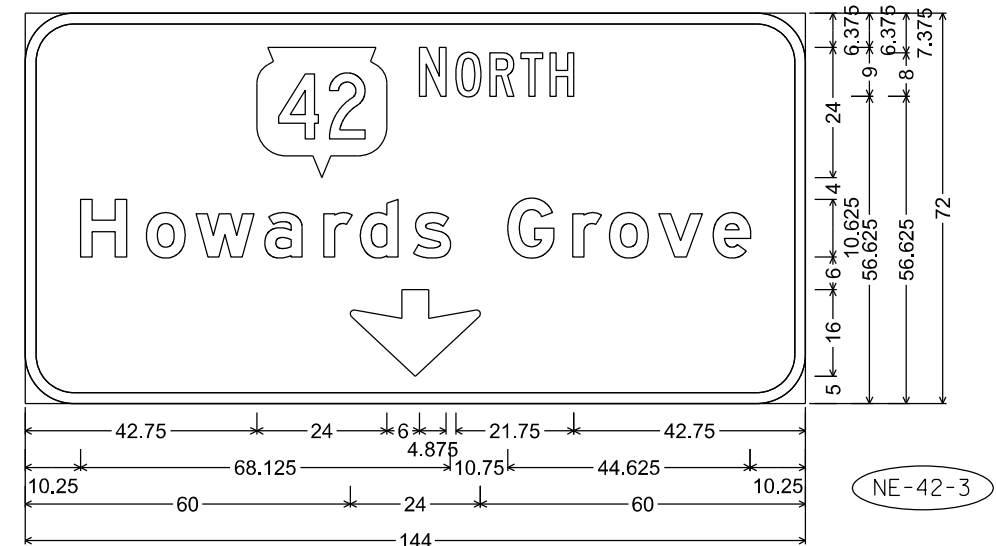
E6-54R; 9,000" Radius, 2,000" Border
"NORTH", C; "Green", E Mod; "Bay", E Mod

NE-42-1



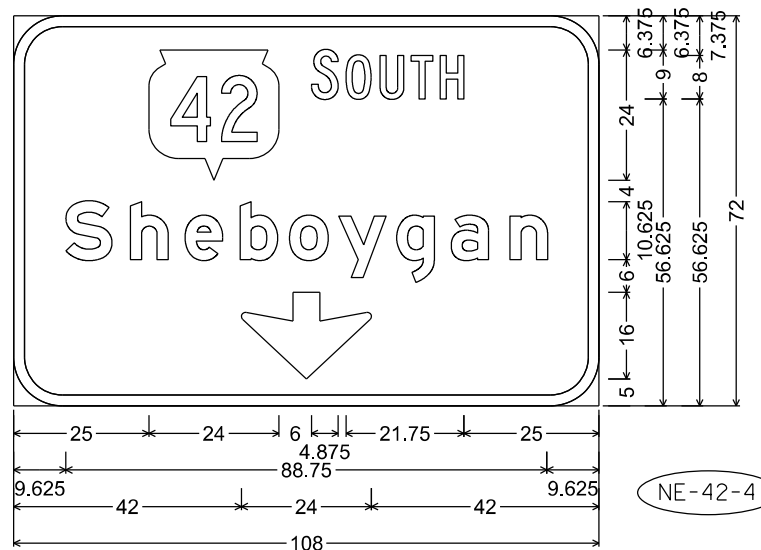
E6-54A; 9,000" Radius, 2,000" Border
"TO", E; "SOUTH", C; "Milwaukee", E Mod;

NE-42-2



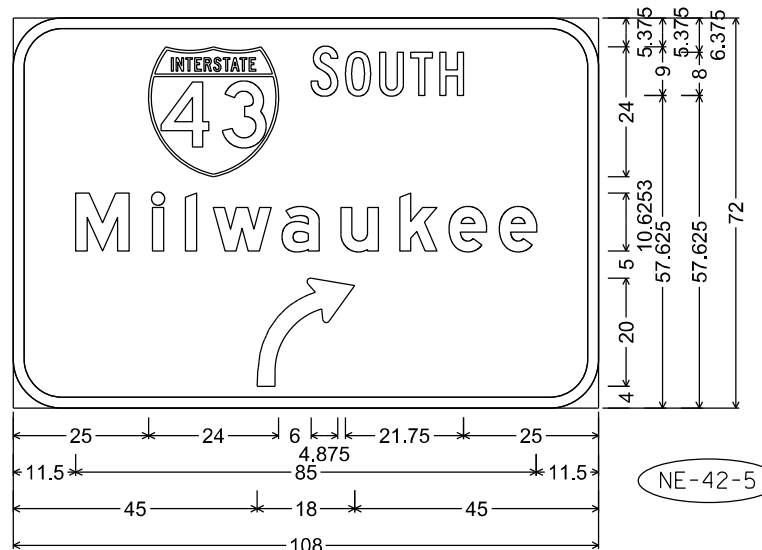
E6-54A; 9,000" Radius, 2,000" Border
"NORTH", C; "Howards", E Mod; "Grove", E Mod;

NE-42-3



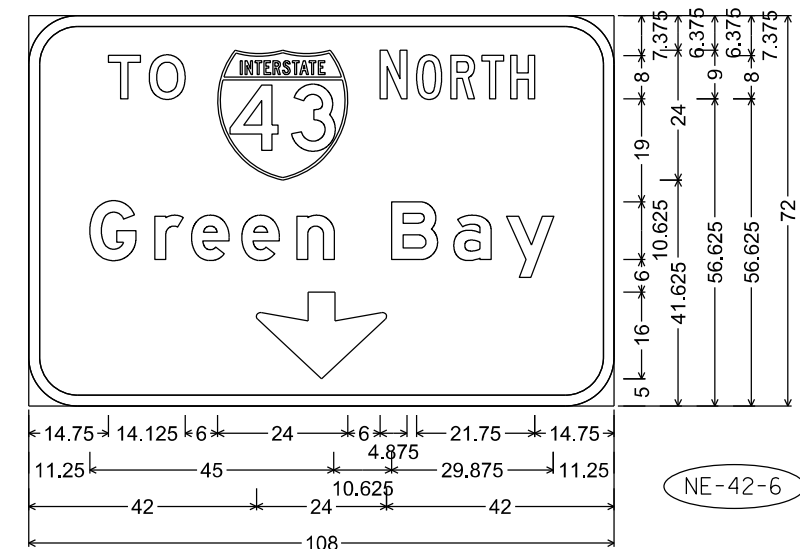
E6-54A; 9,000" Radius, 2,000" Border
"SOUTH", C; "Sheboygan", E Mod

NE-42-4



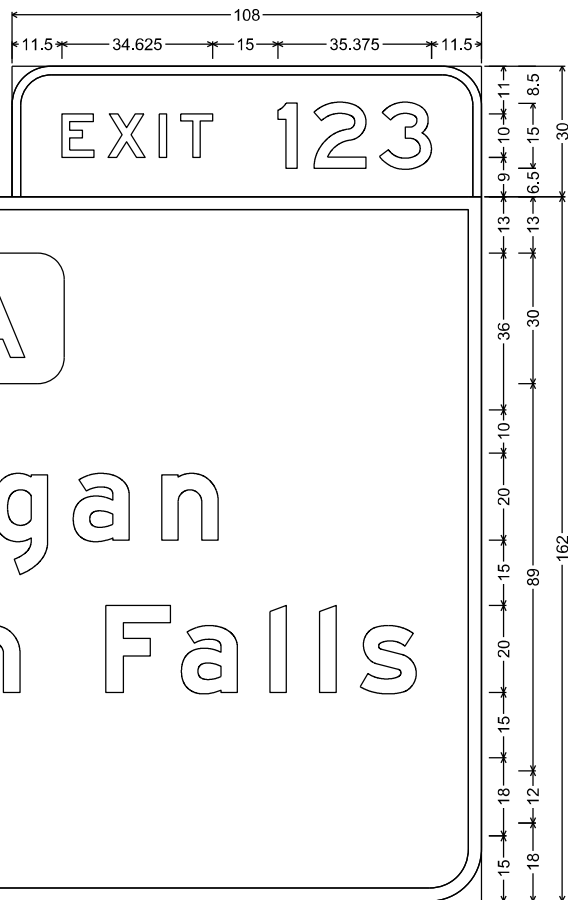
E6-54R; 9,000" Radius, 2,000" Border
"SOUTH", C; "Milwaukee", E Mod

NE-42-5



E6-54A; 9,000" Radius, 2,000" Border
"TO", E; "NORTH", C; "Green Bay", E Mod

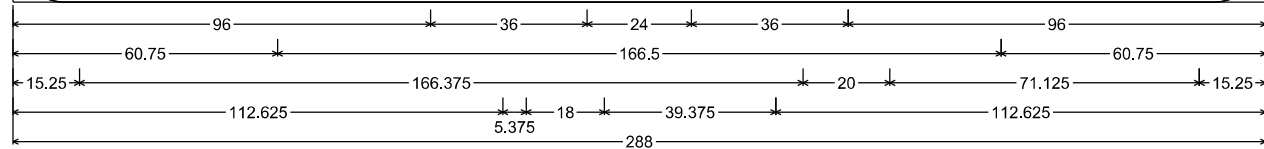
NE-42-6



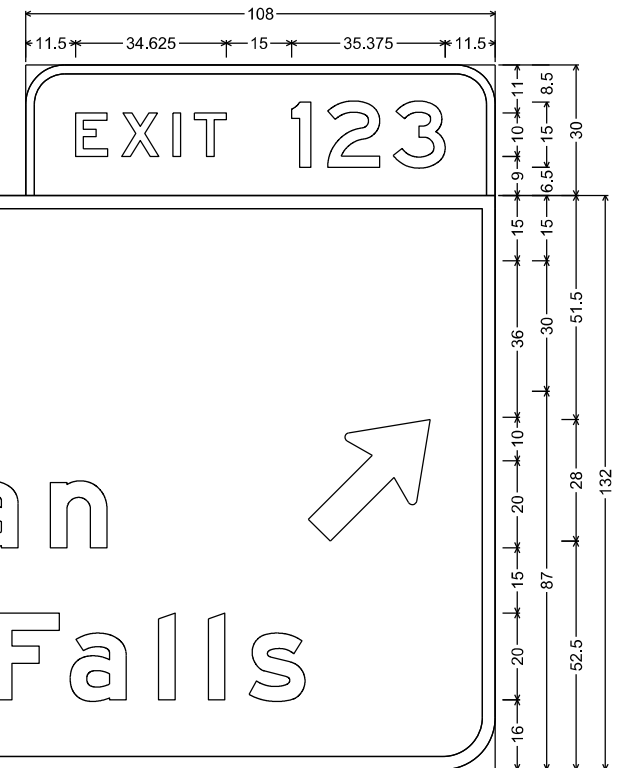
NE-43-4

NOTES

1. All Signs Type I - Type SH Reflective
2. Color:
Background - Green
Message - White
3. Message Series - E Modified except all CAP words Series E

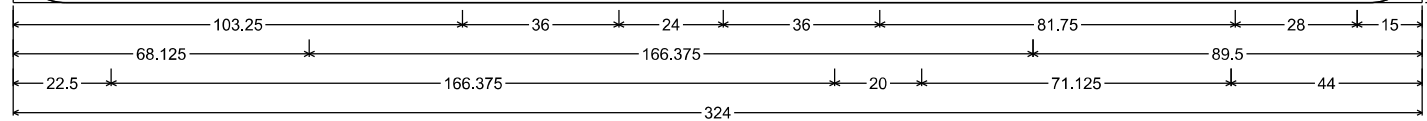


E1-5P; 9.000" Radius, 2.000" Border
E1-1A; 12.000" Radius, 3.000" Border



NE-43-5

NE-43-32



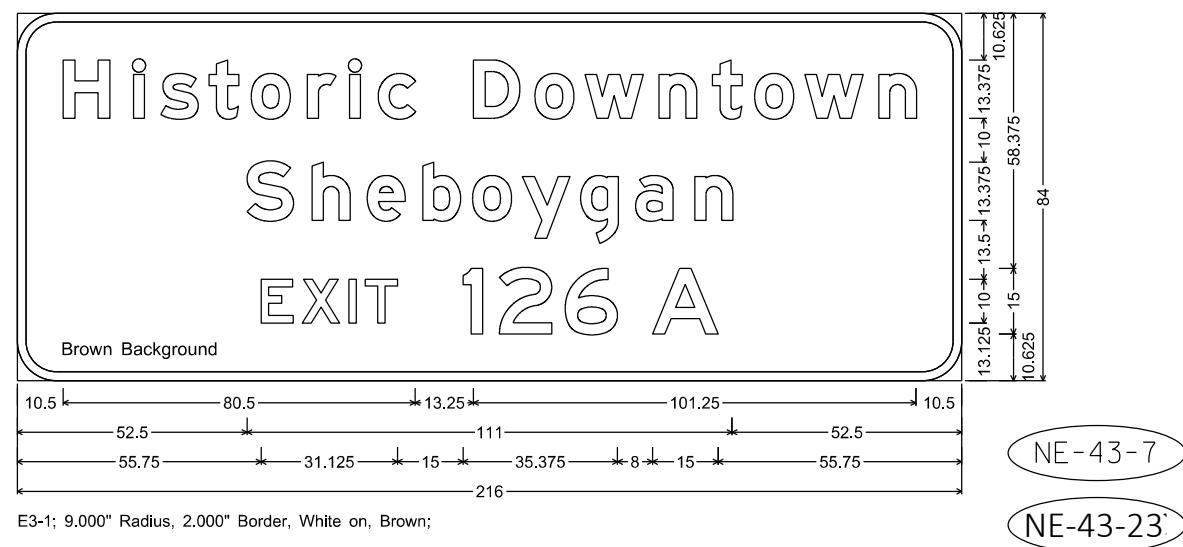
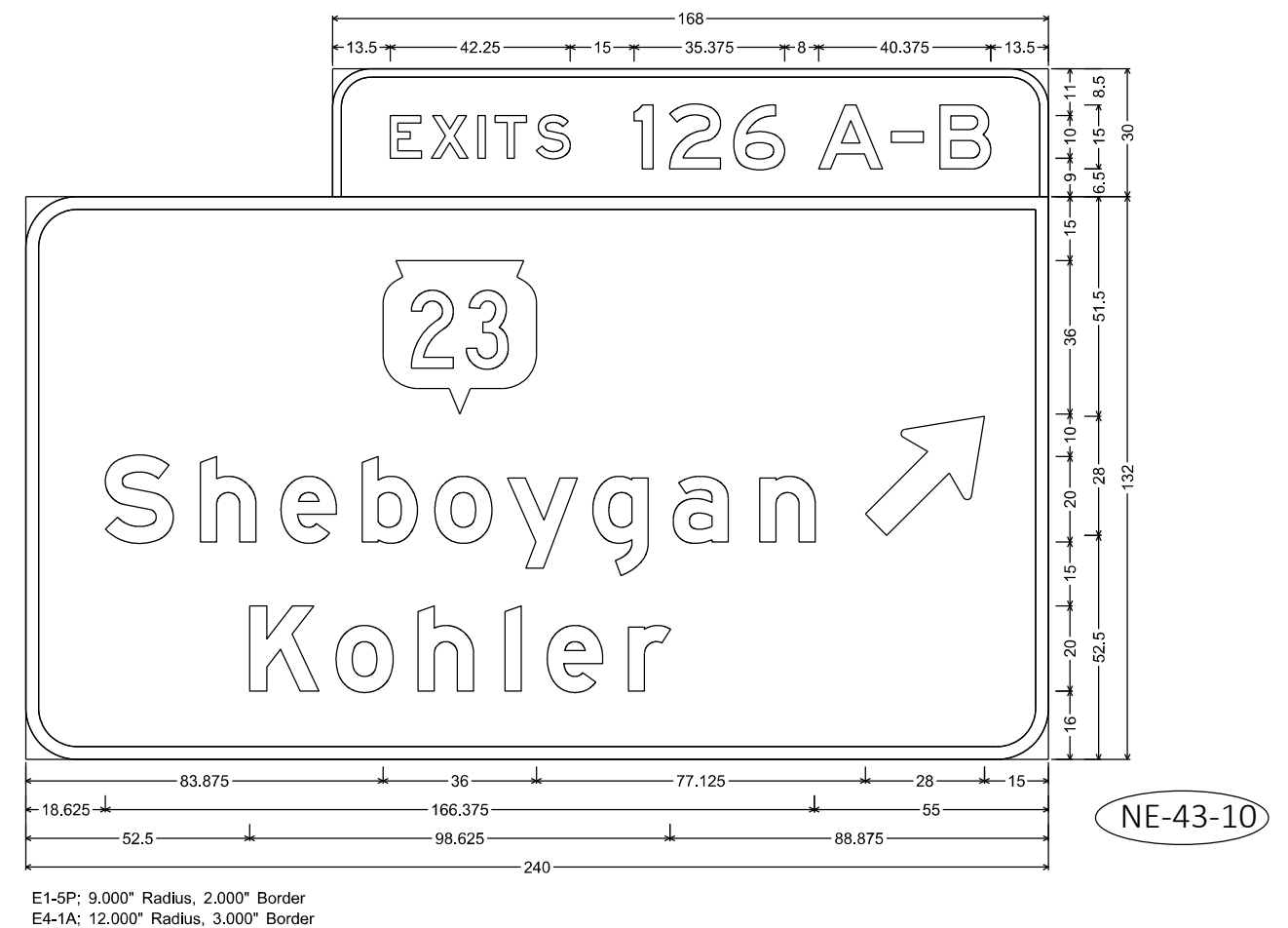
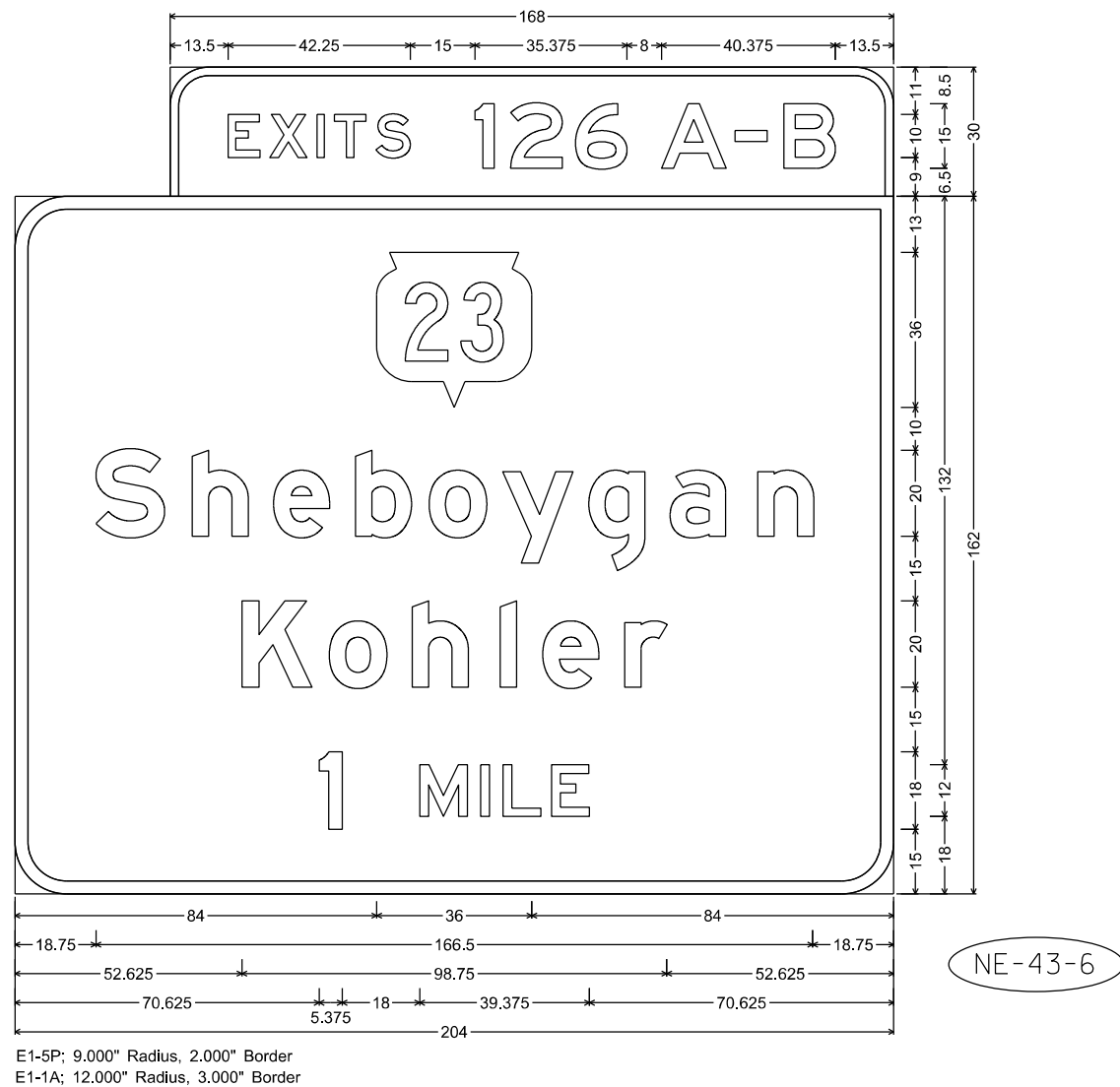
E1-5P; 9.000" Radius, 2.000" Border
E4-1A; 12.000" Radius, 3.000" Border

7

7

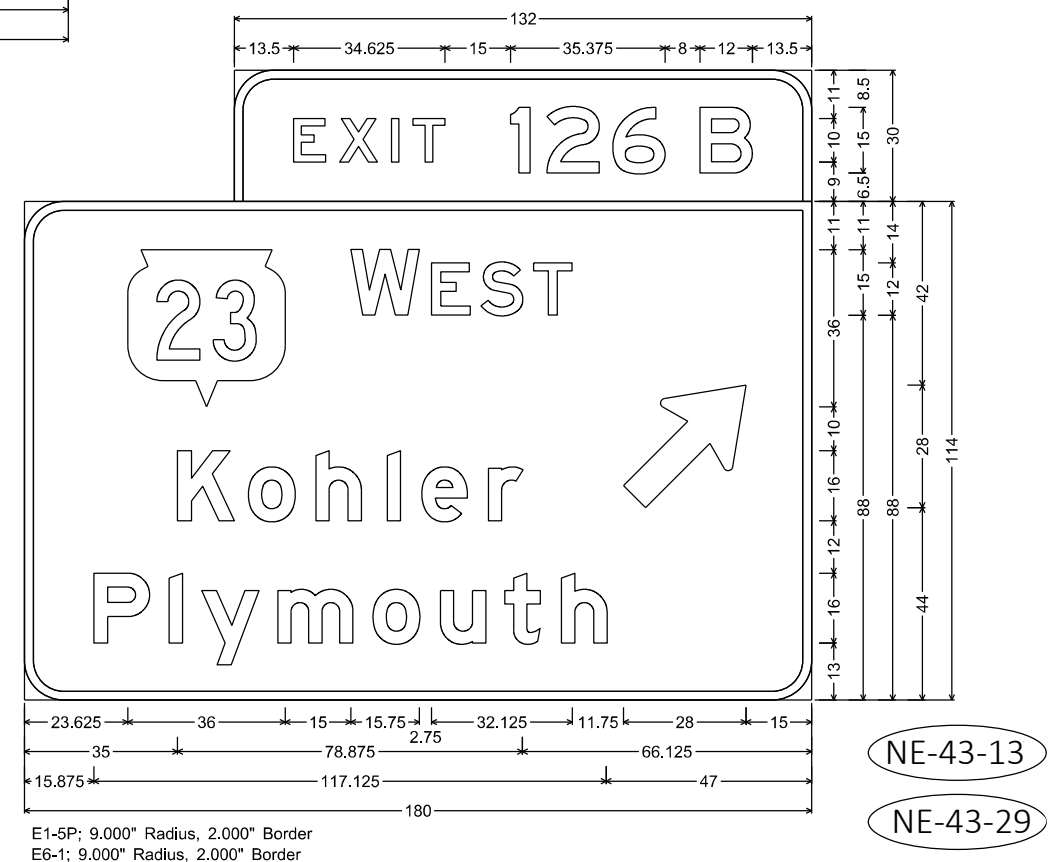
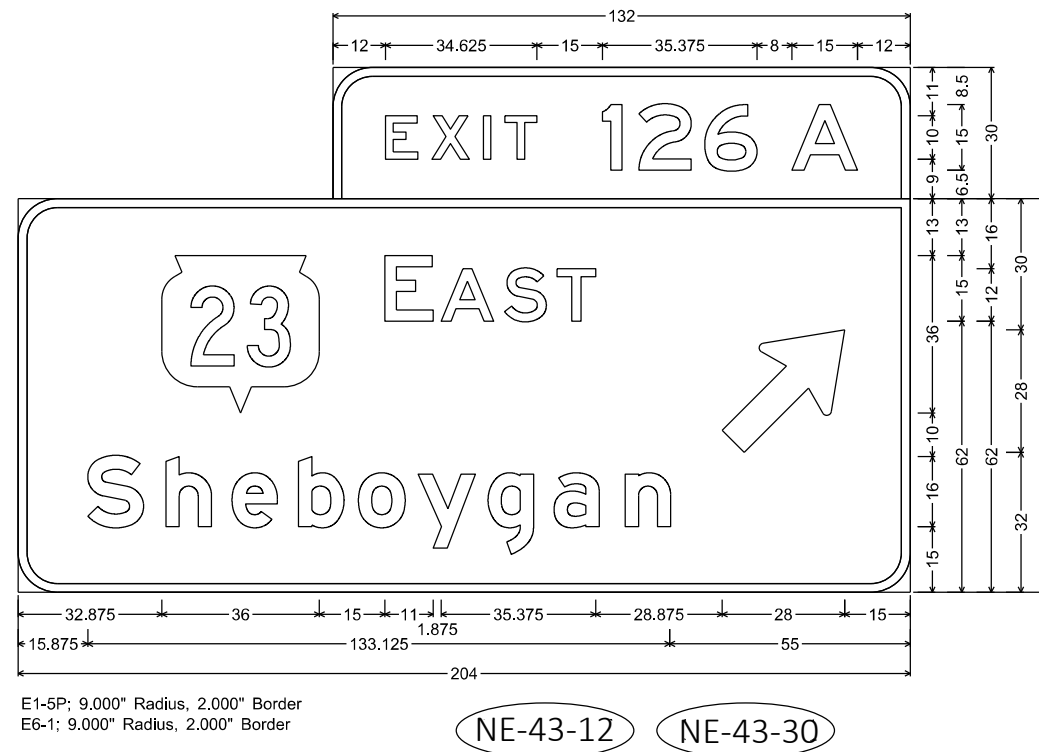
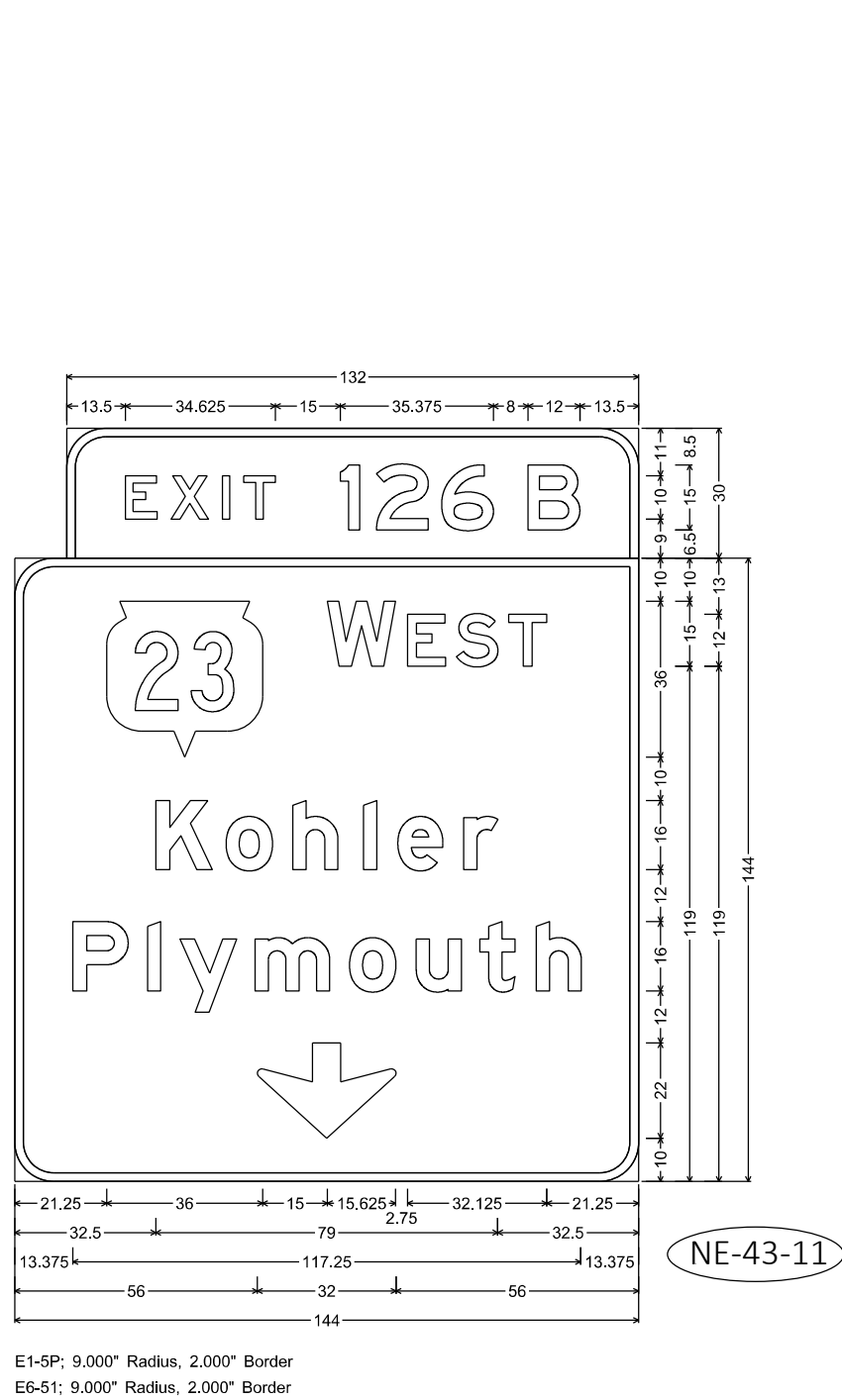
NOTES

1. All Signs Type I - Type SH Reflective
2. Color:
Background - Green or as noted
Message - White
3. Message Series - E Modified except all CAP words Series E



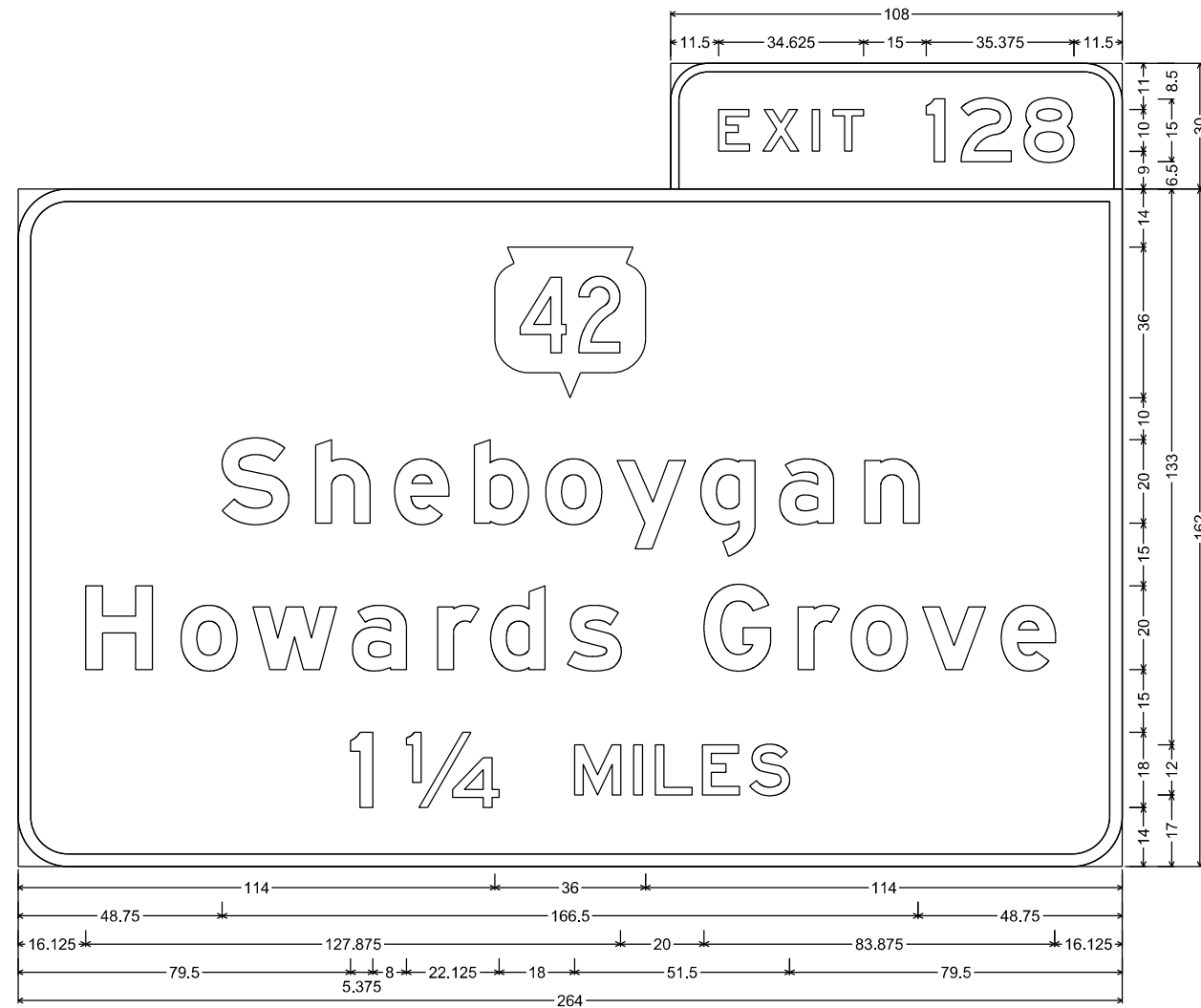
NOTES

1. All Signs Type I - Type SH Reflective
2. Color:
Background - Green
Message - White
3. Message Series - E Modified except all CAP words Series E



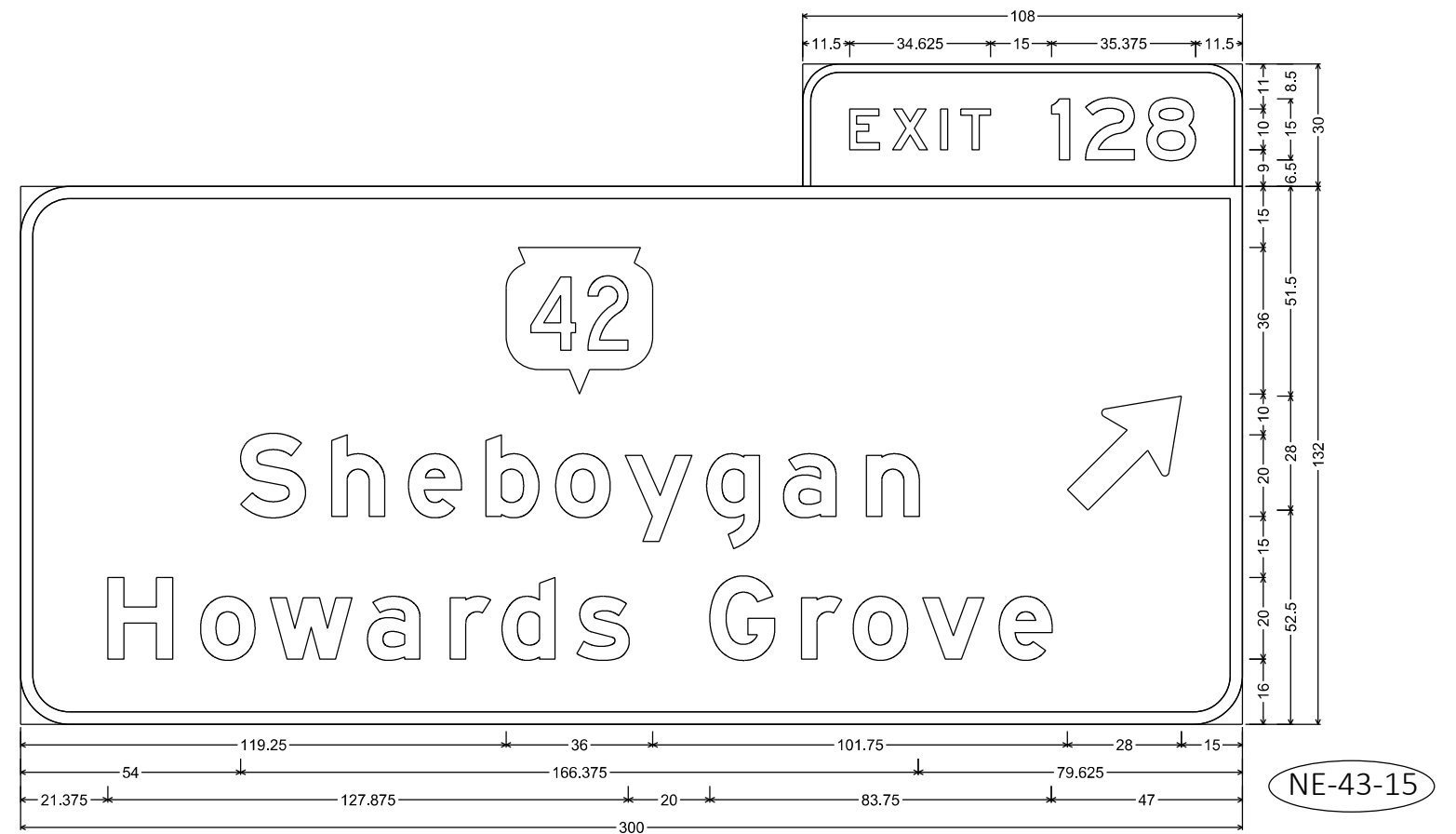
NOTES

1. All Signs Type I - Type SH Reflective
2. Color:
Background - Green
Message - White
3. Message Series - E Modified except all CAP words Series E



E1-5P; 9.000" Radius, 2.000" Border
E1-1A; 12.000" Radius, 3.000" Border

NE-43-14

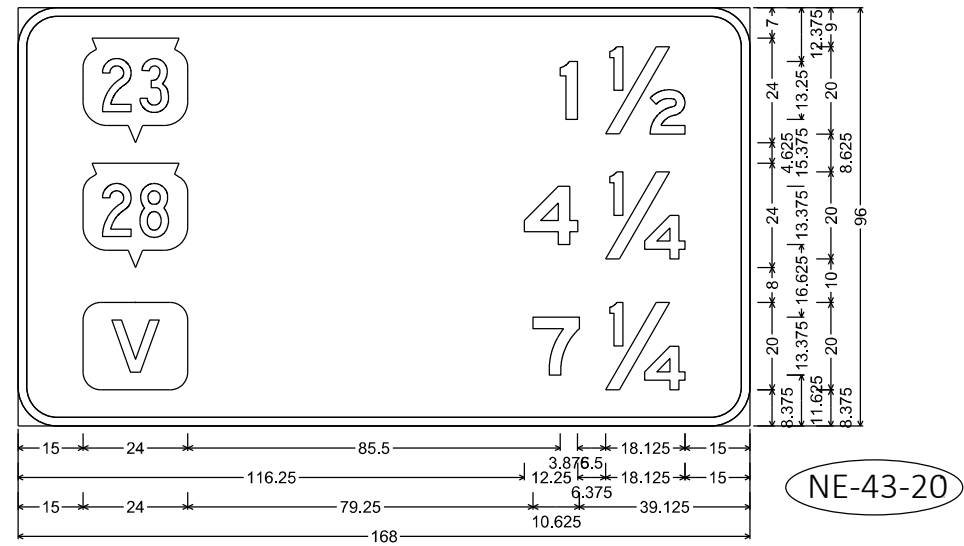


E1-5P; 9.000" Radius, 2.000" Border
E4-1A; 12.000" Radius, 3.000" Border

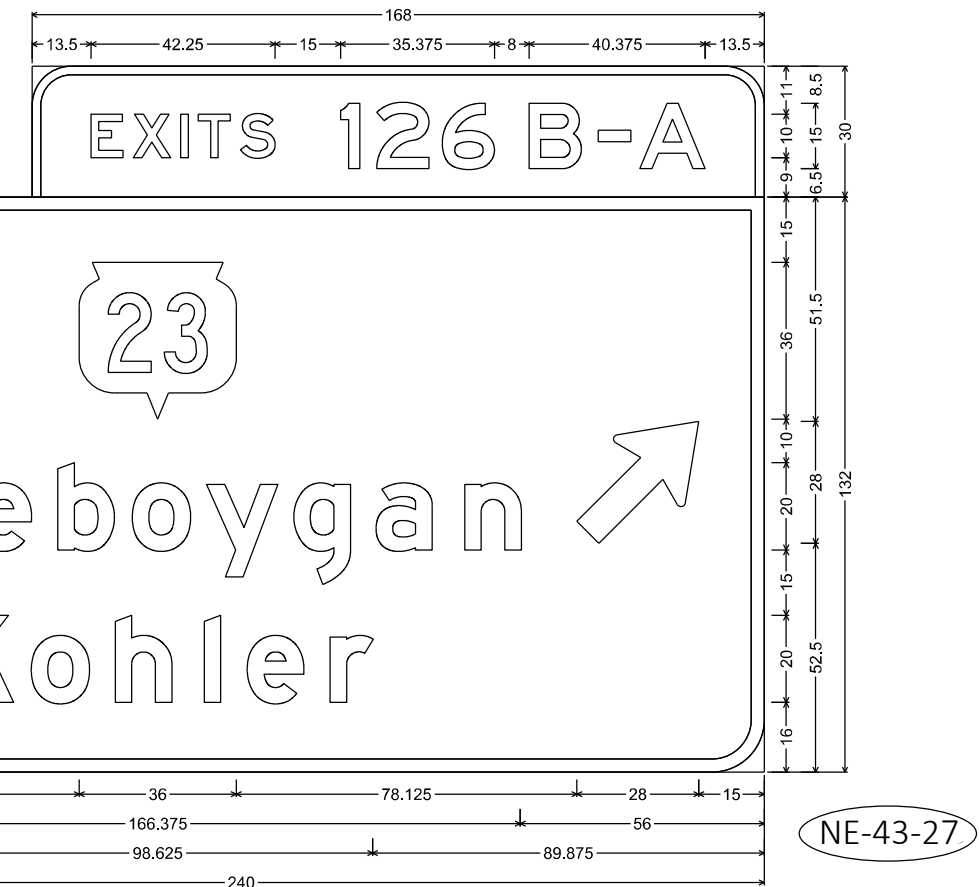
NE-43-15

NOTES

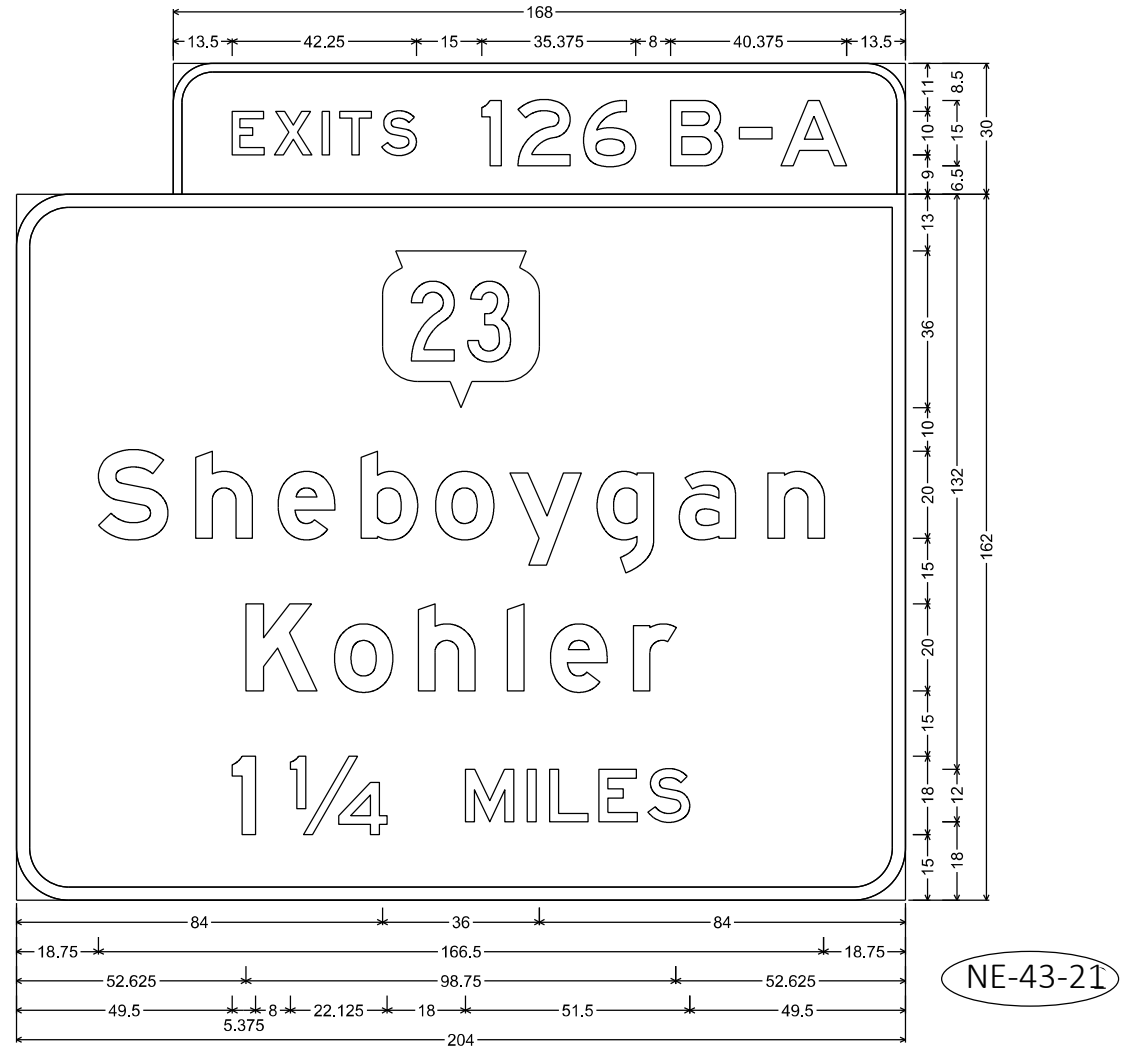
1. All Signs Type I - Type SH Reflective
2. Color:
Background - Green
Message - White
3. Message Series - E Modified except all CAP words Series E



E8-1; 9.000" Radius, 2.000" Border



E1-5P; 9.000" Radius, 2.000" Border
E4-1A; 12.000" Radius, 3.000" Border



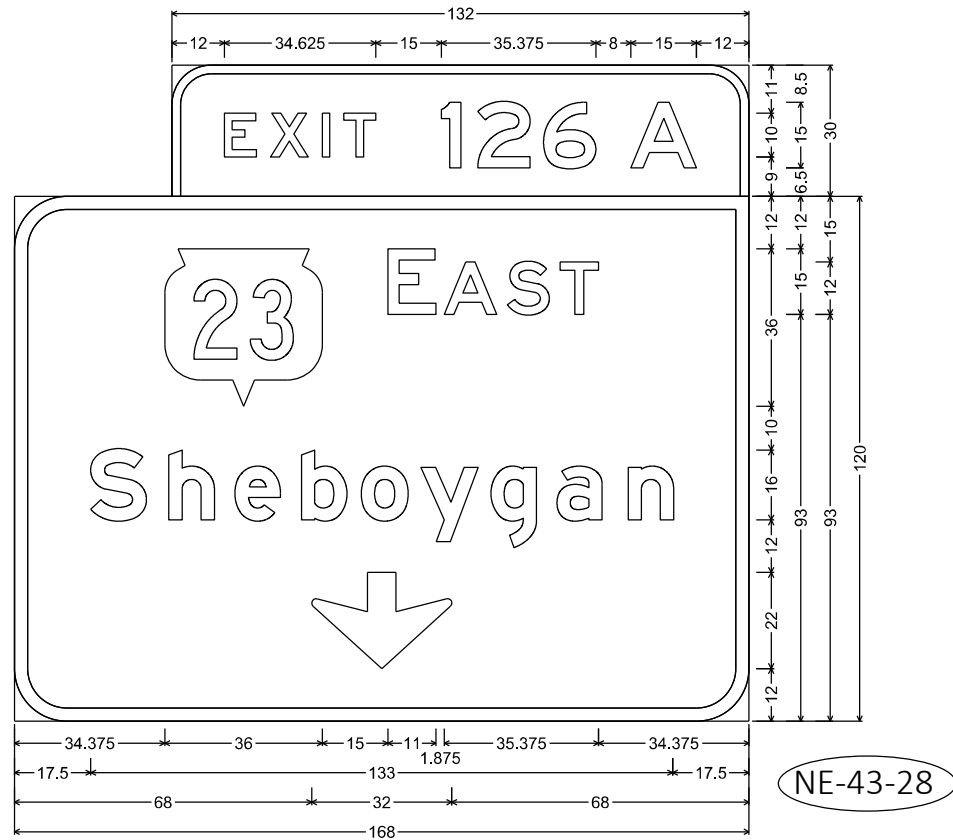
E1-5P; 9.000" Radius, 2.000" Border
E1-1A; 12.000" Radius, 3.000" Border

7

7

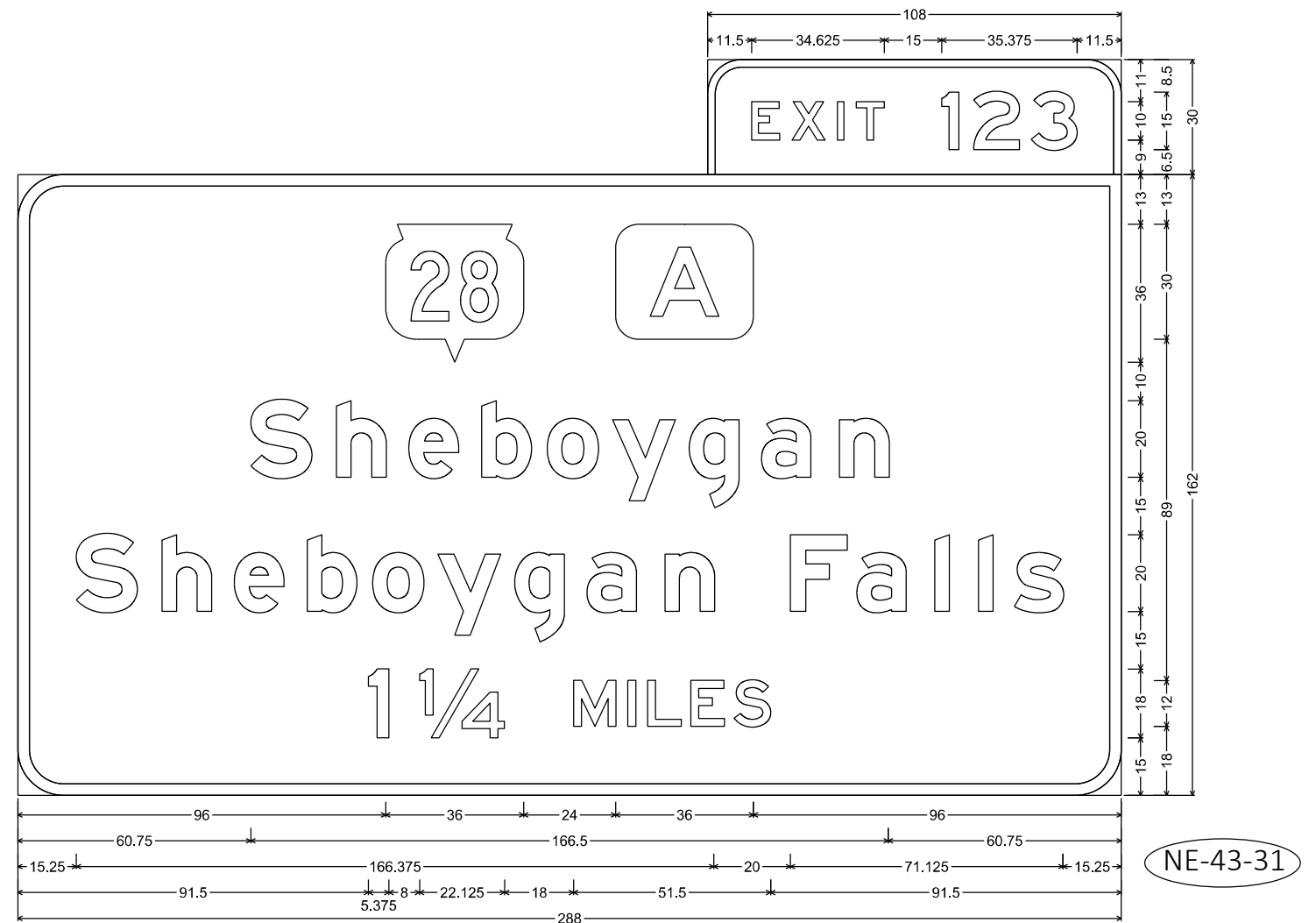
NOTES

1. All Signs Type I - Type SH Reflective
2. Color:
Background - Green
Message - White
3. Message Series - E Modified except all CAP words Series E



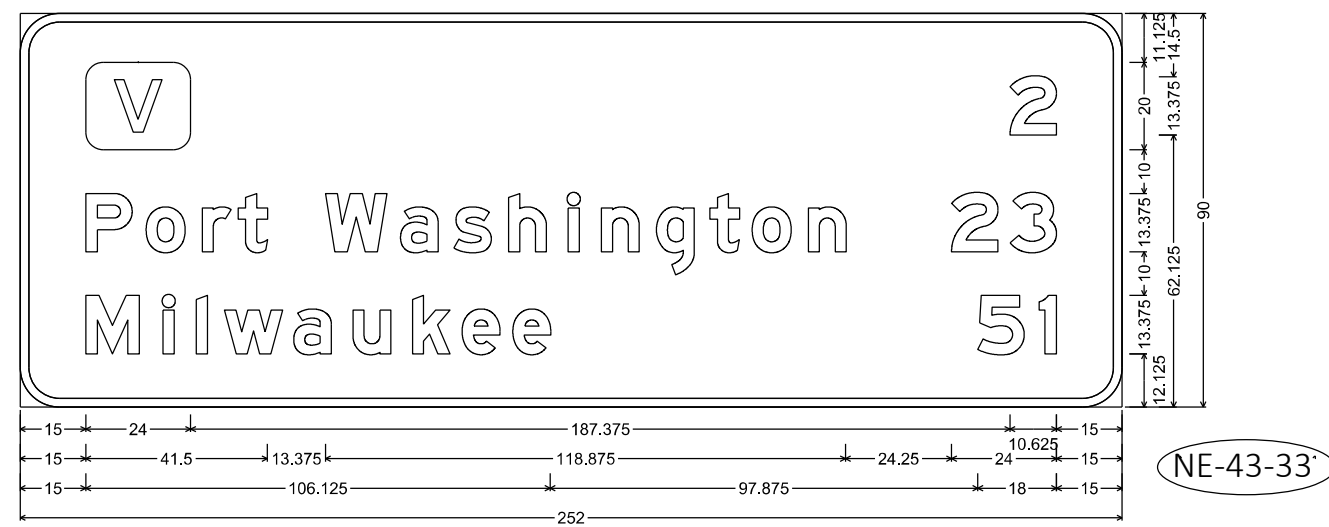
E1-5P; 9.000" Radius, 2.000" Border
E6-51; 12.000" Radius, 3.000" Border

NE-43-28



E1-5P; 9.000" Radius, 2.000" Border
E1-1A; 12.000" Radius, 3.000" Border

NE-43-31

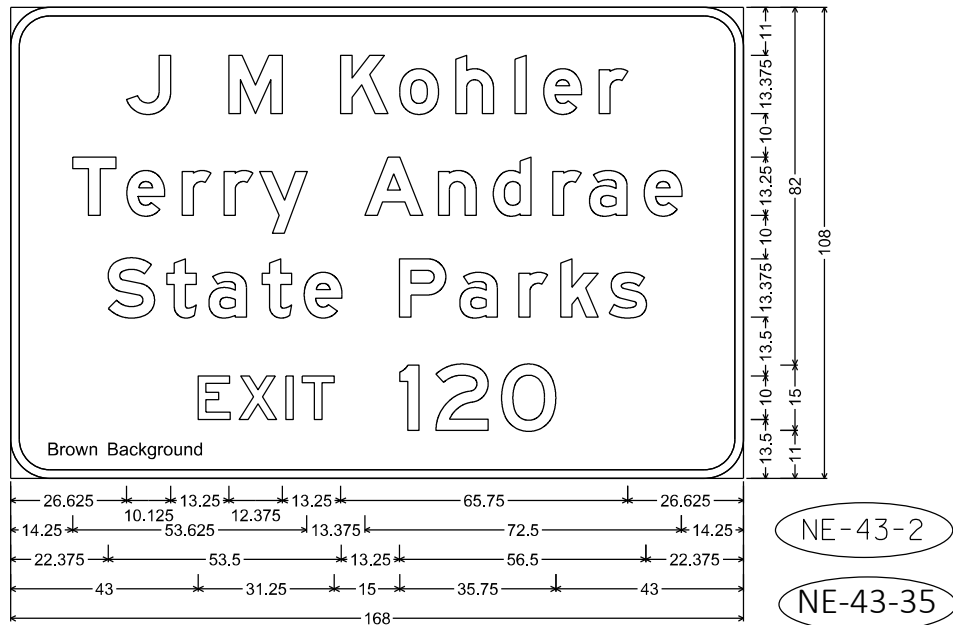


D2-3; 9.000" Radius, 2.000" Border

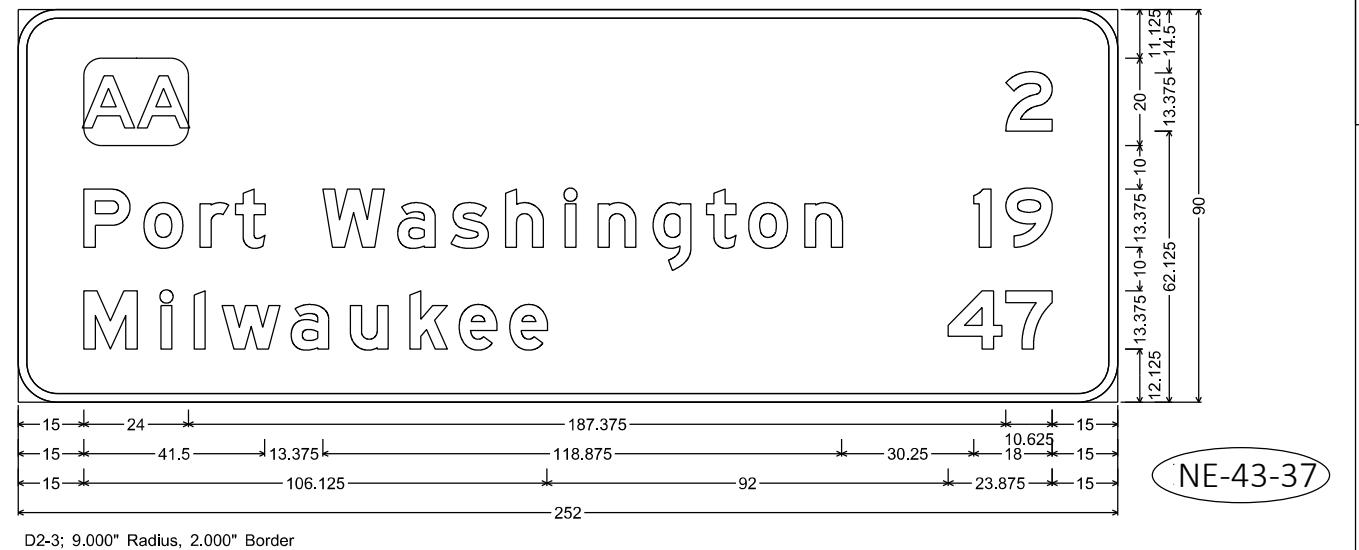
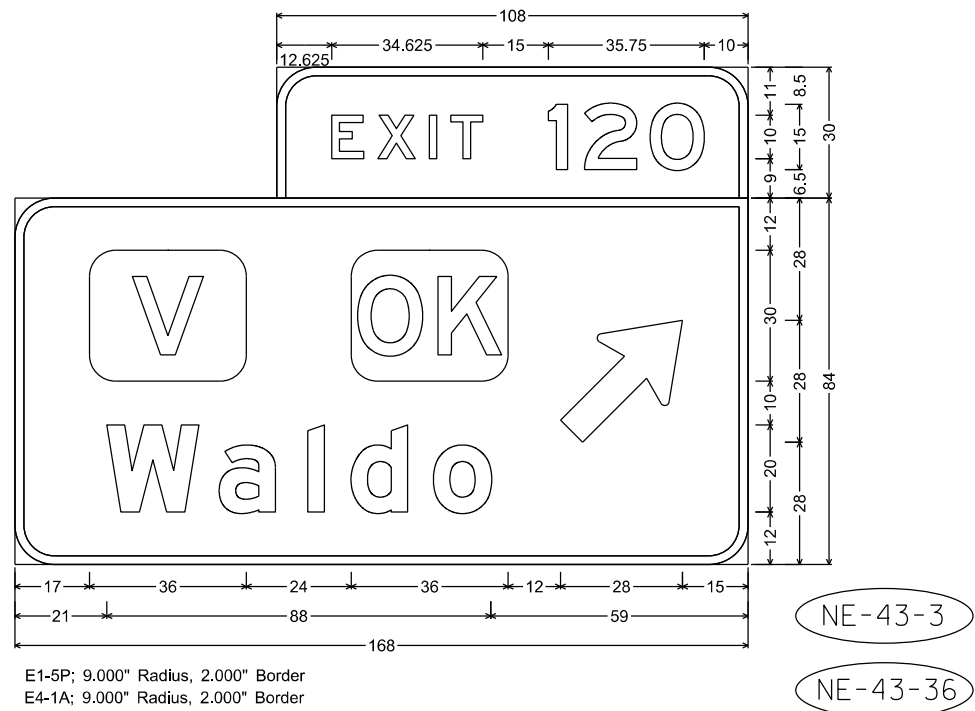
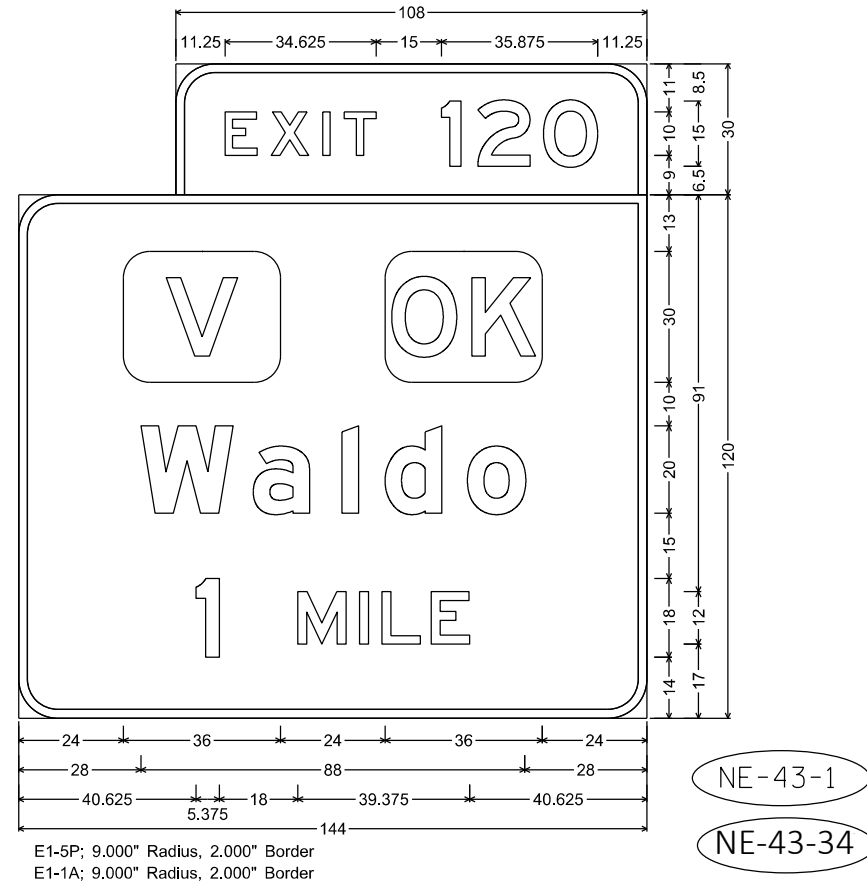
NE-43-33

NOTES

1. All Signs Type I - Type SH Reflective
2. Color:
Background - Green or as noted
Message - White
3. Message Series - E Modified except all CAP words Series E

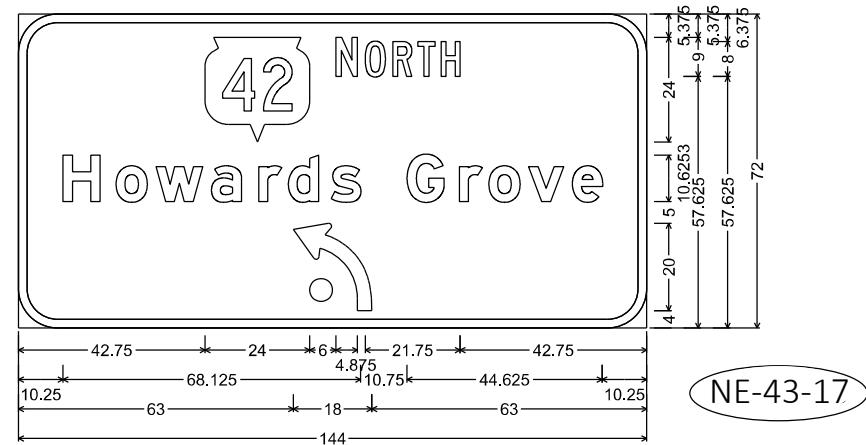


E3-1; 9.000" Radius, 2.000" Border, White on, Brown

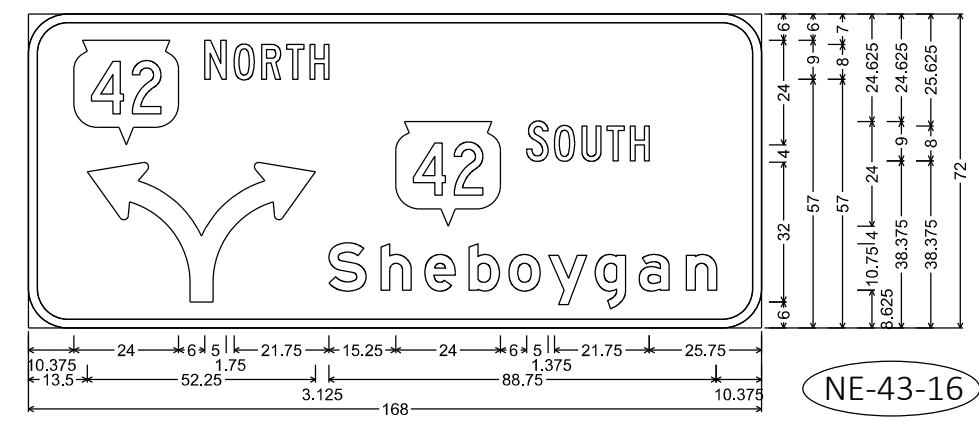


NOTES

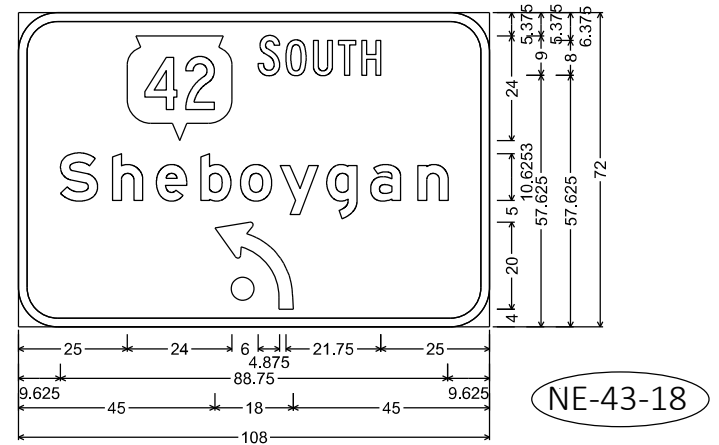
1. All Signs Type I - Type SH Reflective
2. Color:
Background - Green
Message - White
3. Message Series - E Modified except all CAP words Series E



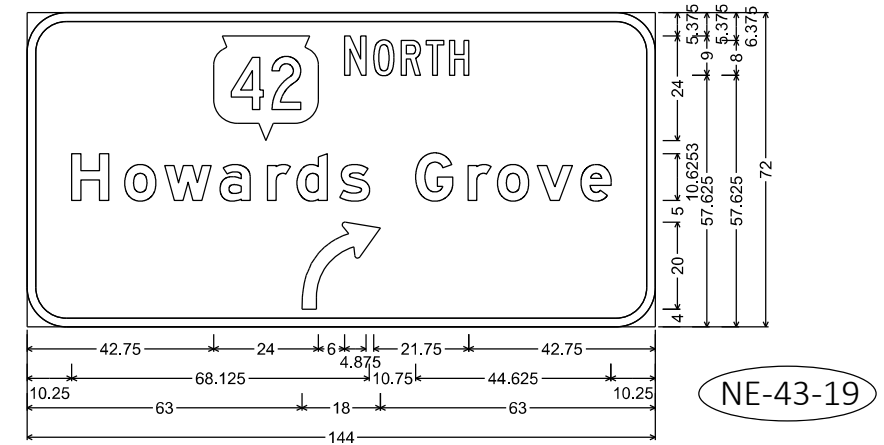
E6-54L; 9.000" Radius, 2.000" Border
"NORTH", C; "Howards", E Mod; "Grove", E Mod



E6-54; 9.000" Radius, 2.000" Border
"NORTH", C; "SOUTH", C; "Sheboygan", E Mod



E6-54L; 9.000" Radius, 2.000" Border
"SOUTH", C; "Sheboygan", E Mod



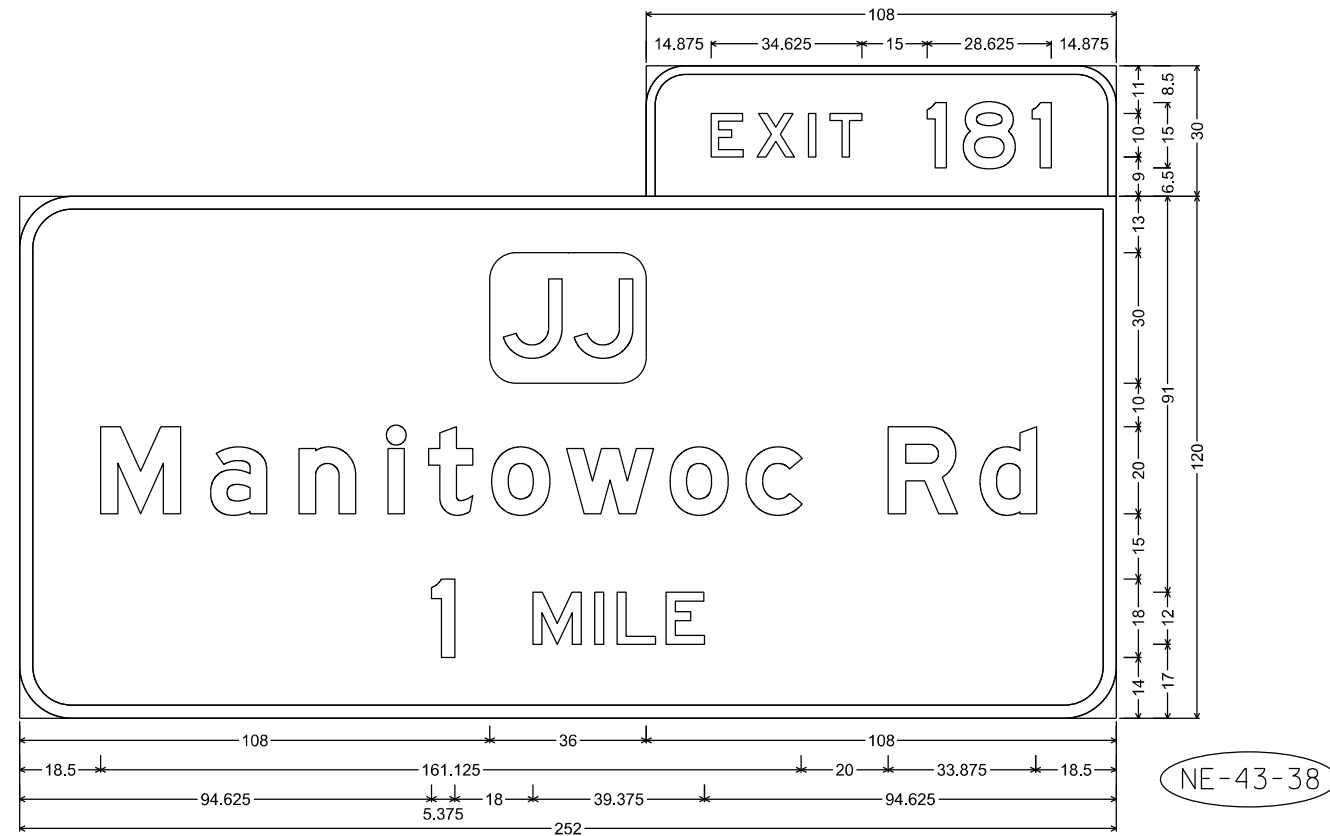
E6-54R; 9.000" Radius, 2.000" Border
"NORTH", C; "Howards", E Mod; "Grove", E Mod

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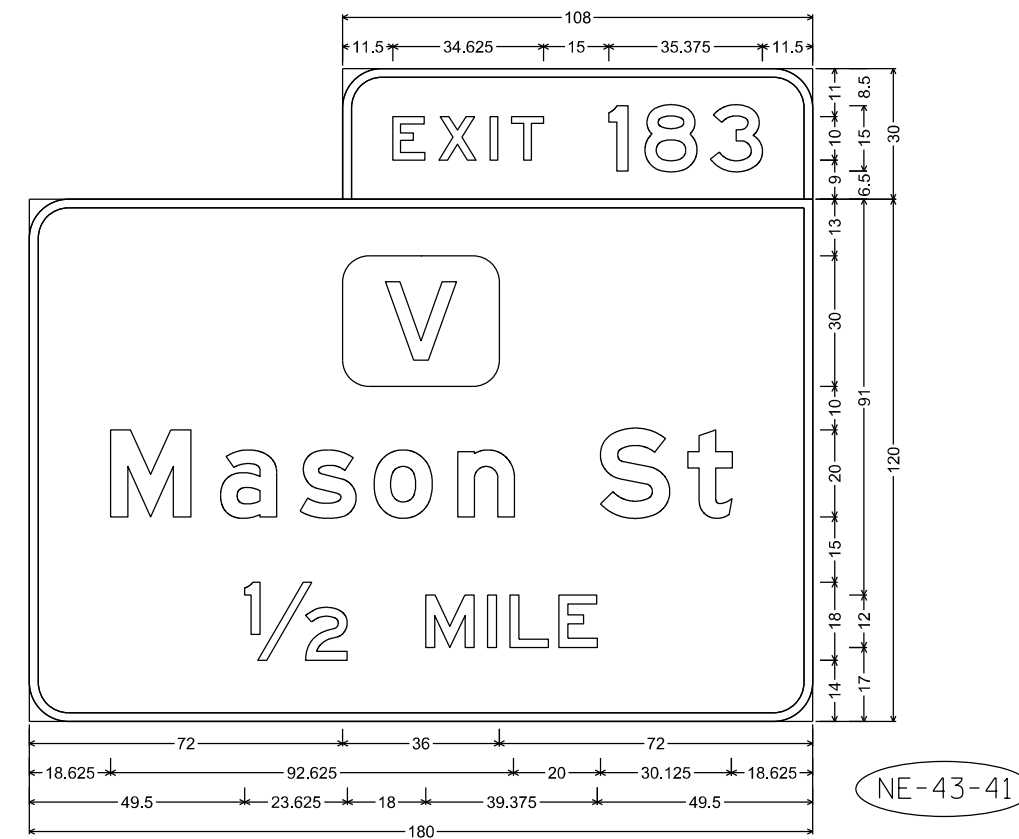
NOTES

1. All Signs Type I - Type SH Reflective
2. Color:
Background - Green
Message - White
3. Message Series - E Modified except all CAP words Series E



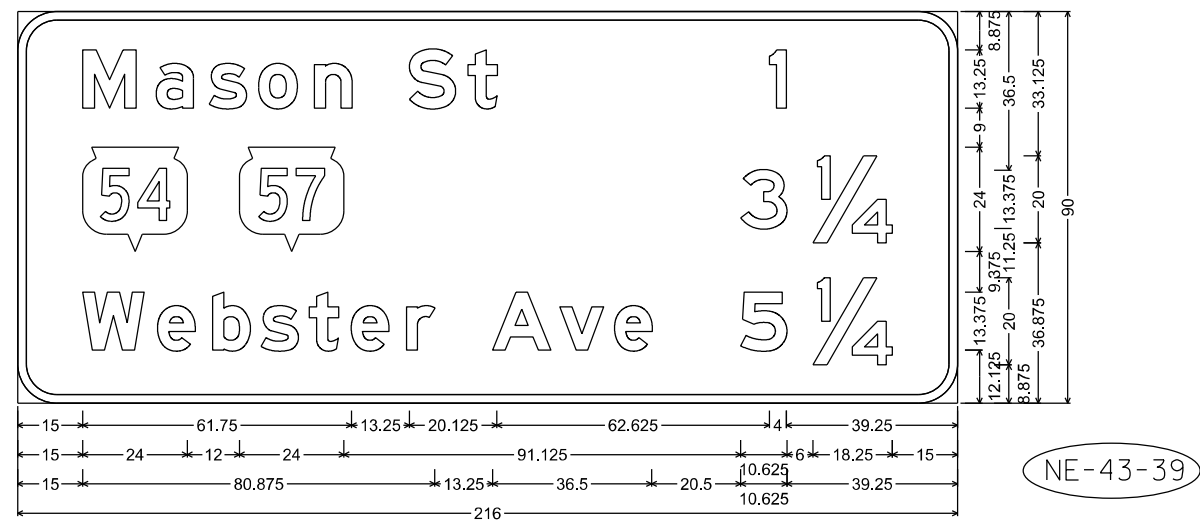
E1-5P; 9.000" Radius, 2.000" Border
E1-1A; 12.000" Radius, 3.000" Border

NE-43-38



E1-5P; 9.000" Radius, 2.000" Border
E1-1A; 9.000" Radius, 2.000" Border

NE-43-41

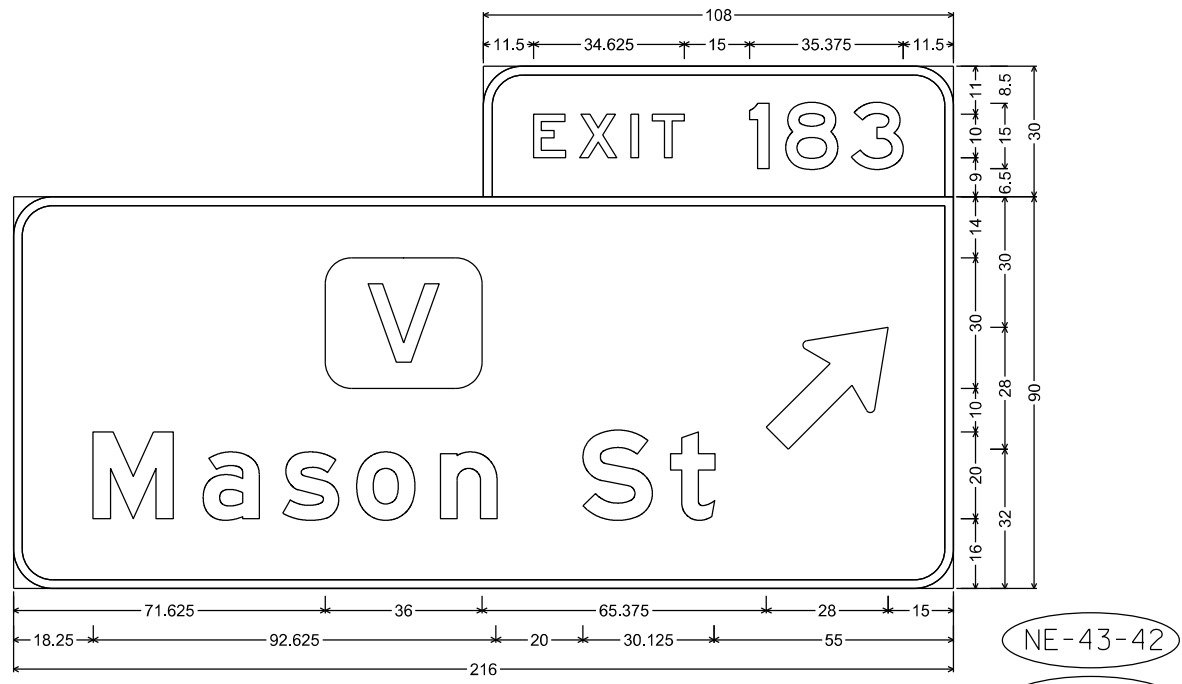


E8-1; 9.000" Radius, 2.000" Border

NE-43-39

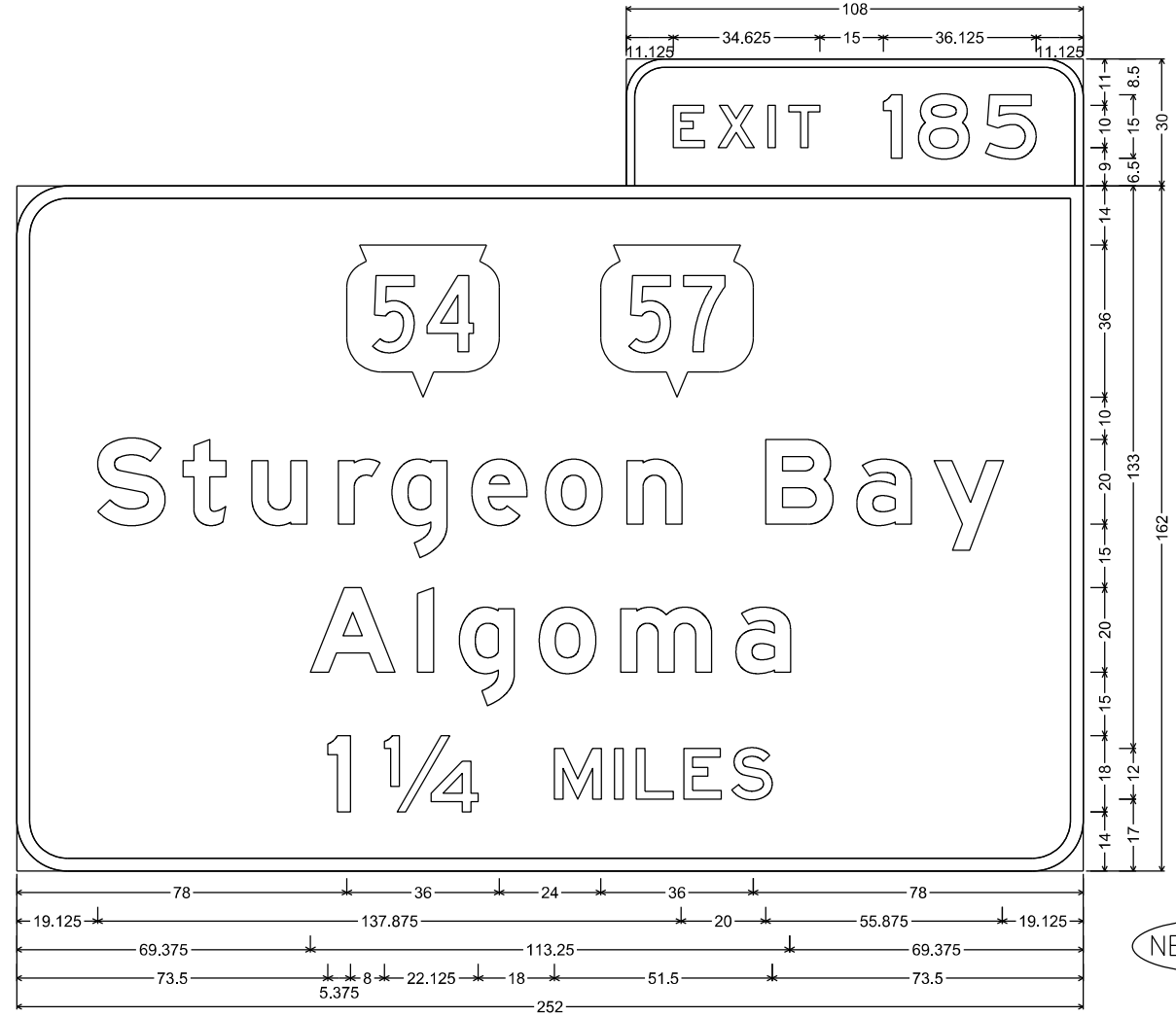
NOTES

1. All Signs Type I - Type SH Reflective
2. Color:
Background - Green
Message - White
3. Message Series - E Modified except all CAP words Series E



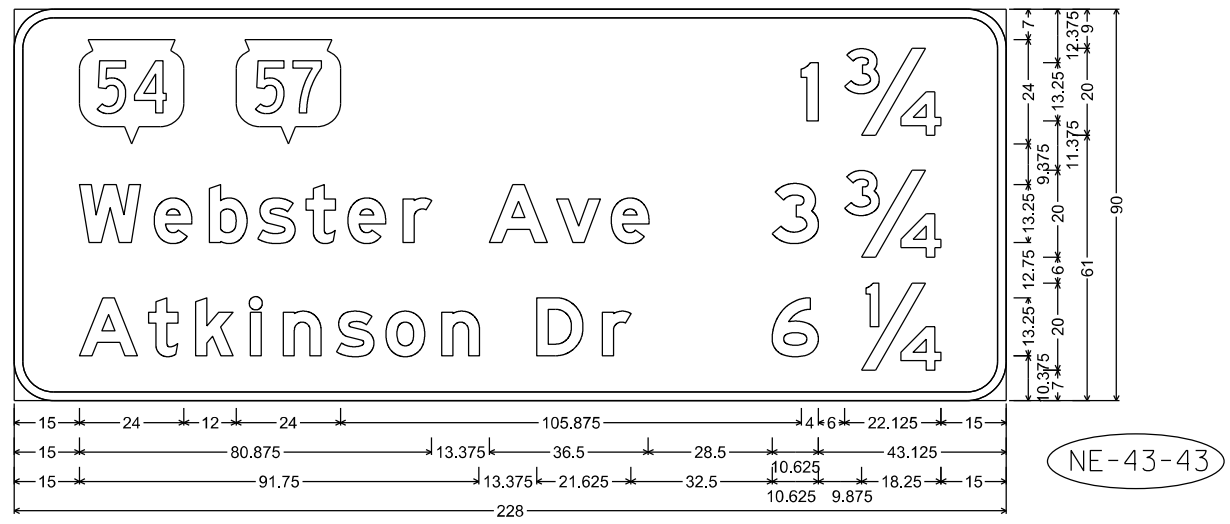
E1-5P; 9.000" Radius, 2.000" Border
E4-1A; 9.000" Radius, 2.000" Border

NE-43-42
NE-43-58



E1-5P; 9.000" Radius, 2.000" Border
E1-1A; 12.000" Radius, 3.000" Border

NE-43-44



E8-1; 9.000" Radius, 2.000" Border

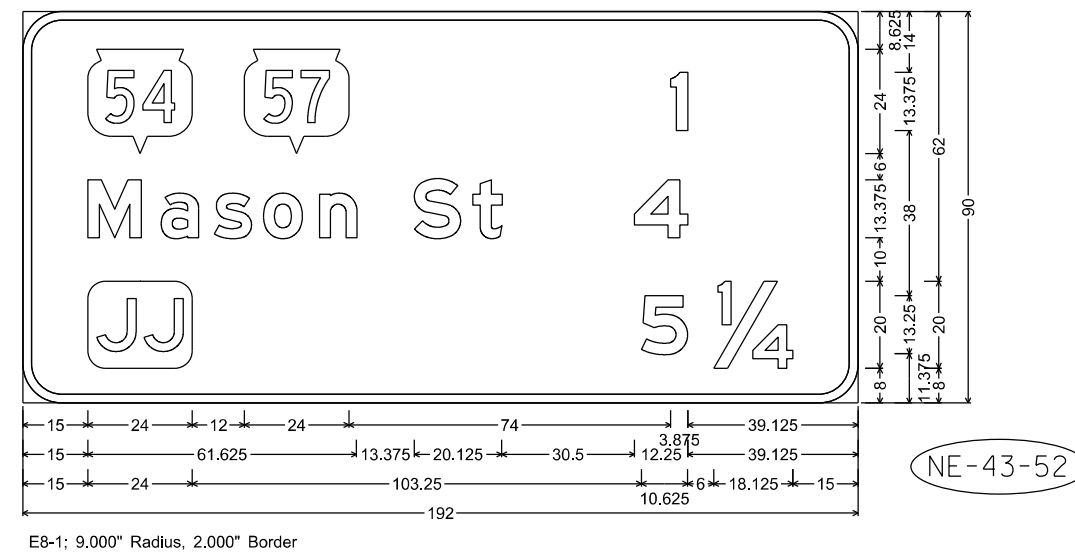
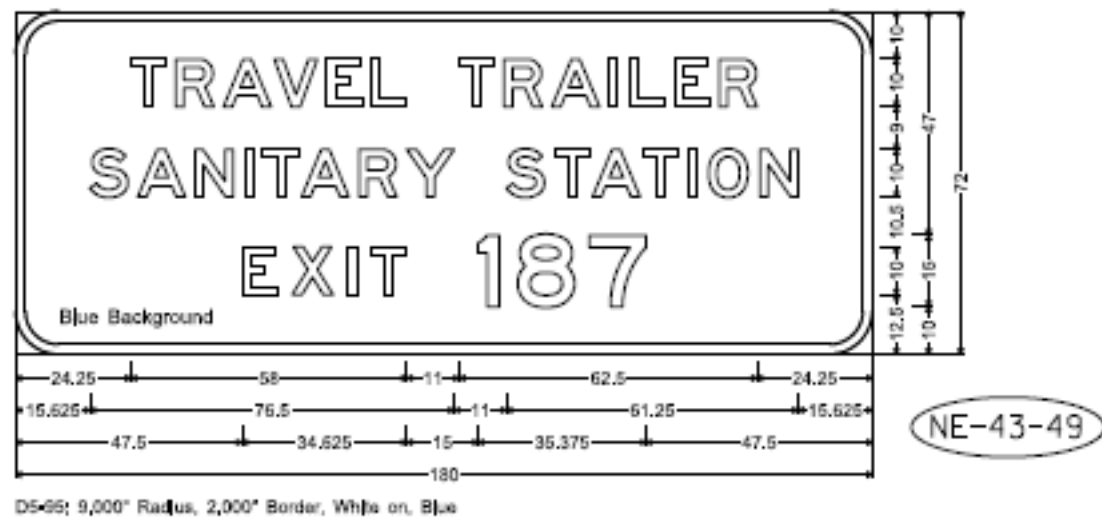
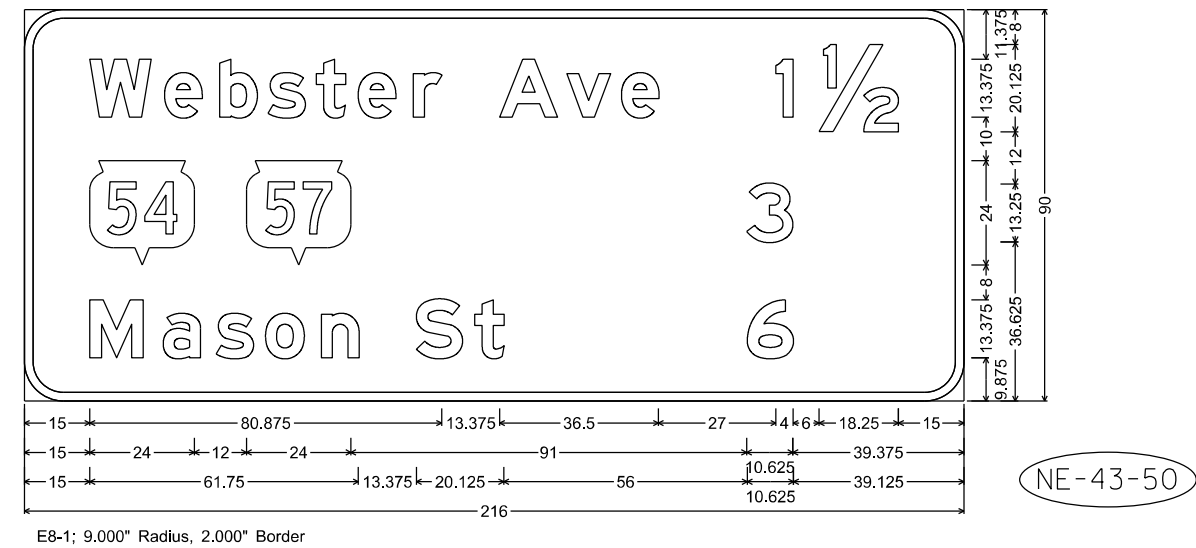
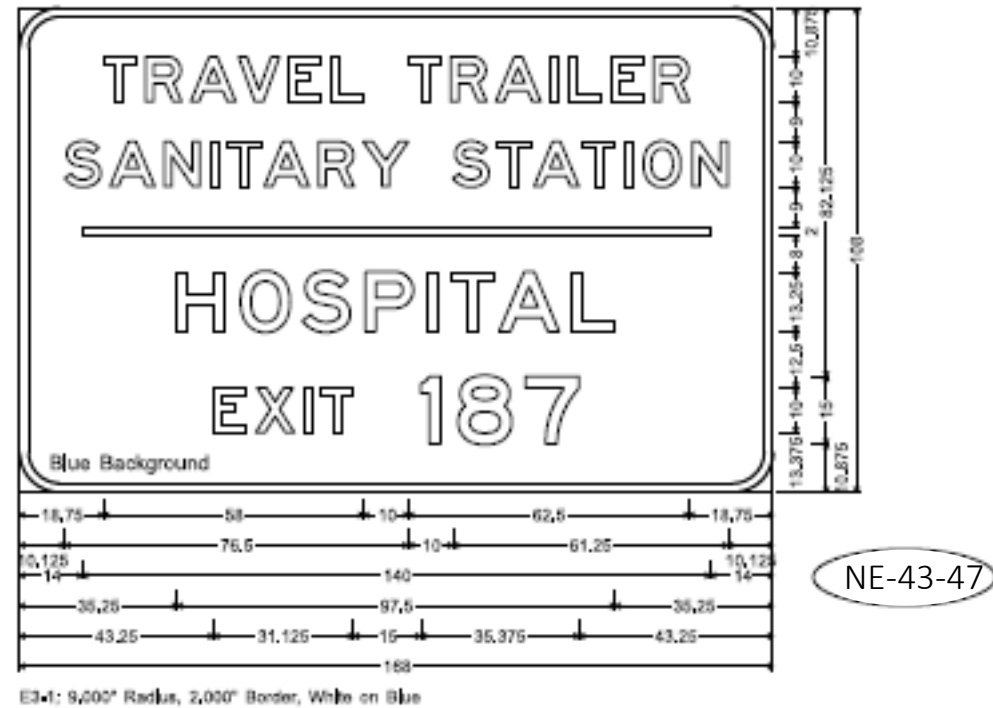
NE-43-43

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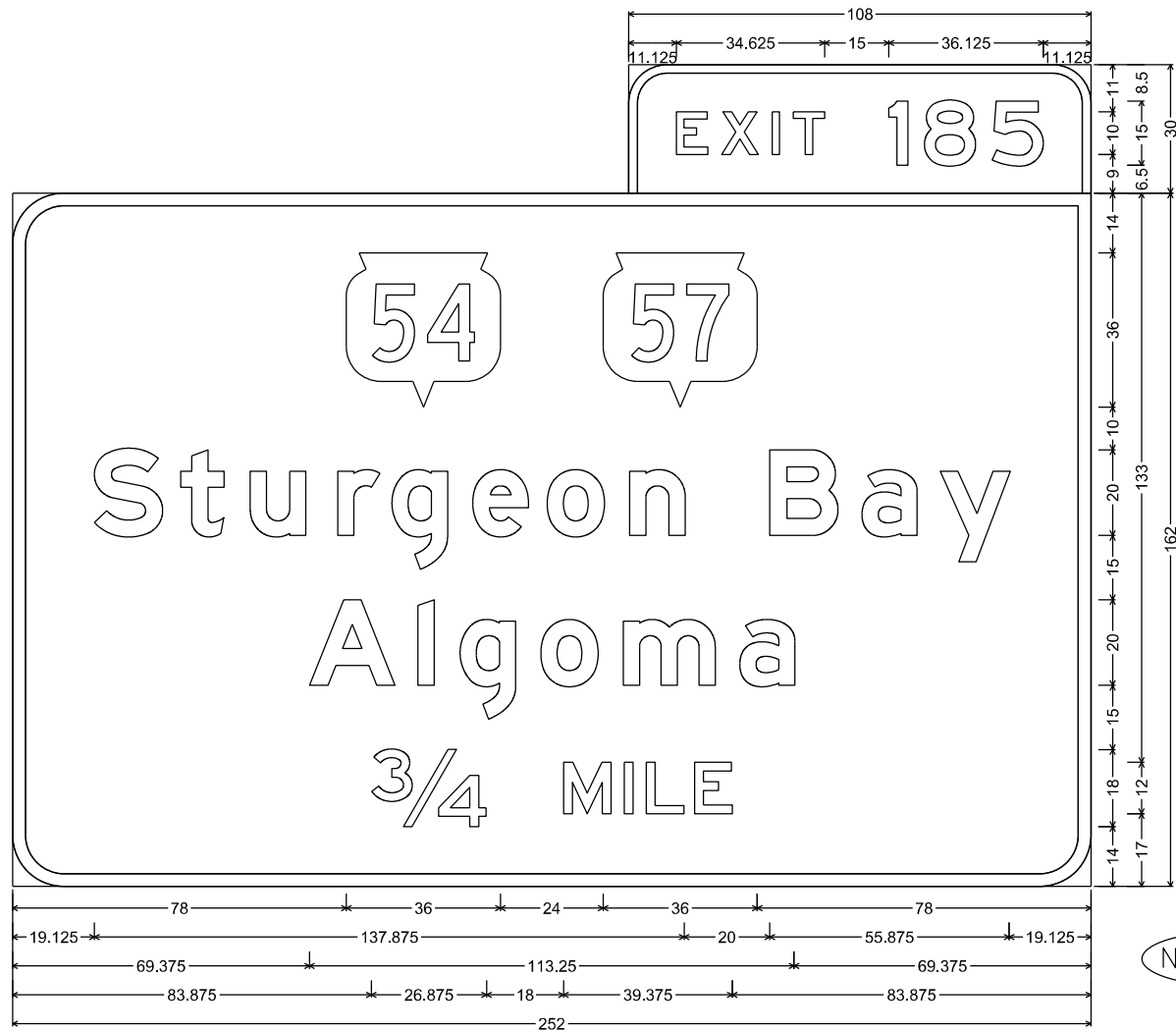
NOTES

1. All Signs Type I - Type SH Reflective
2. Color:
Background - Green or as noted
Message - White
3. Message Series - E Modified except all CAP words Series E

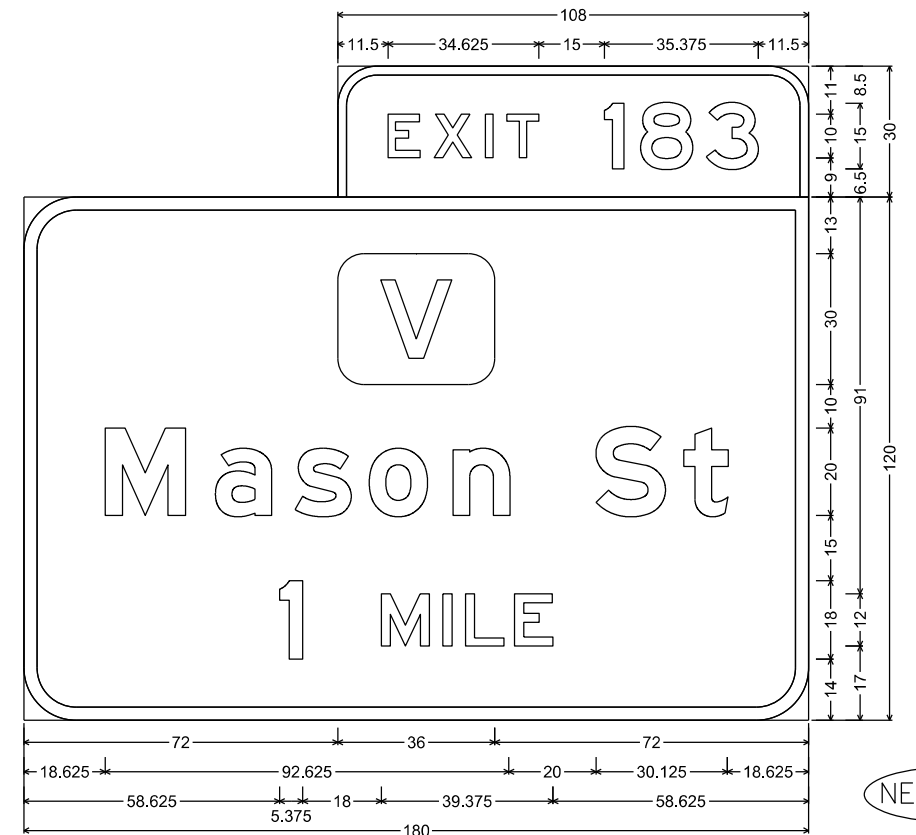


NOTES

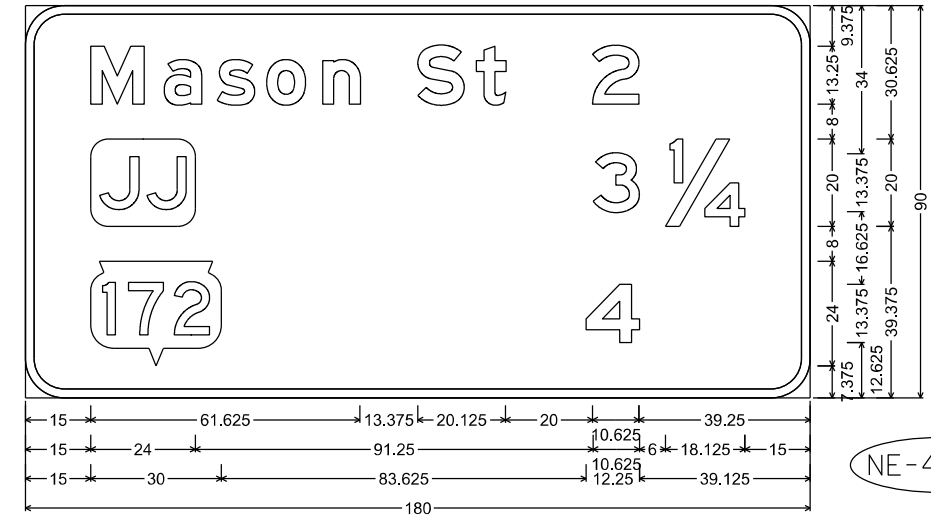
1. All Signs Type I - Type SH Reflective
2. Color:
Background - Green
Message - White
3. Message Series - E Modified except all CAP words Series E



NE-43-53



NE-43-56

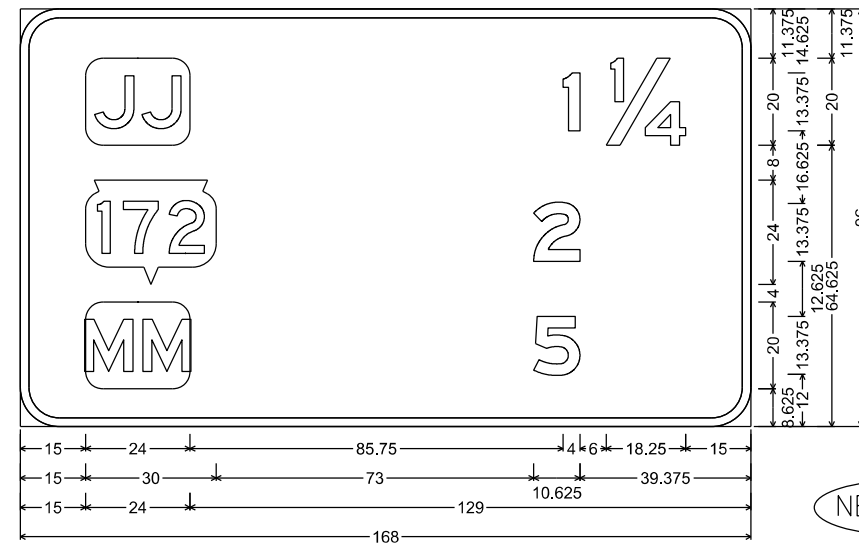


NE-43-55

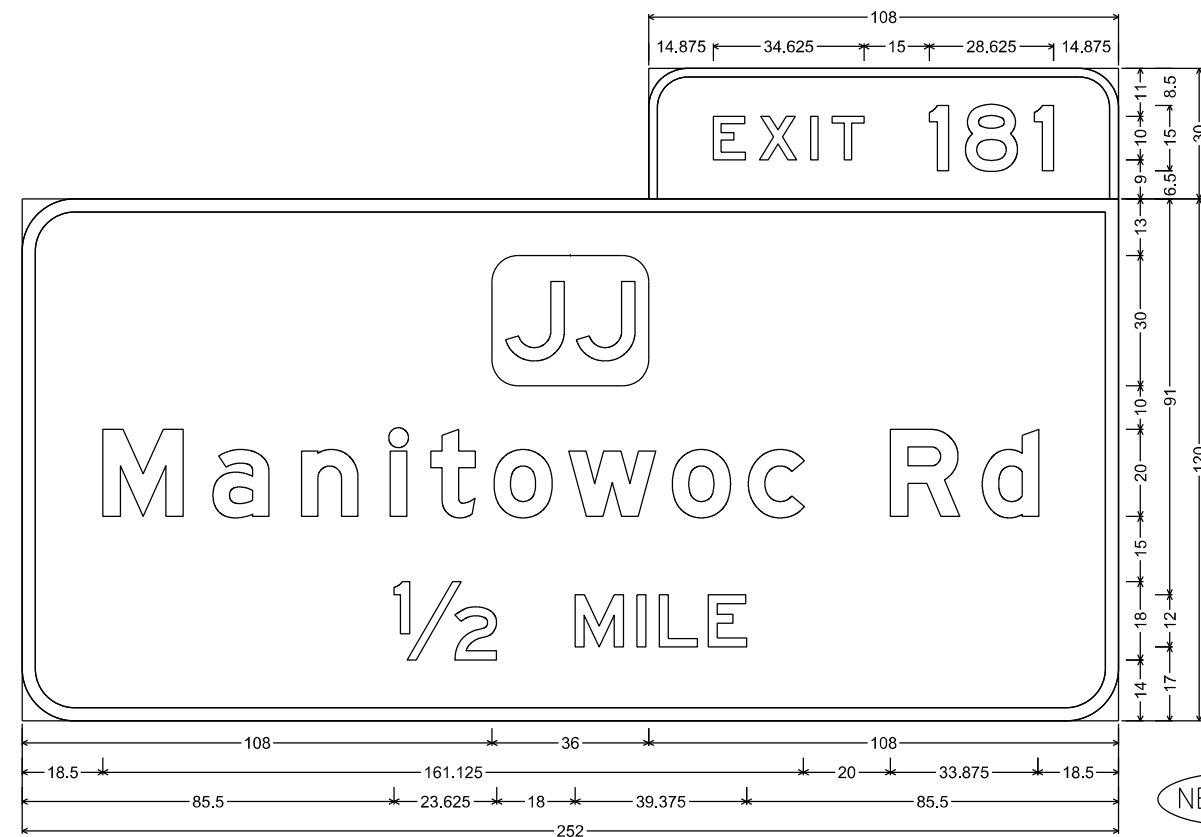
E8-1; 9.000" Radius, 2.000" Border

NOTES

1. All Signs Type I - Type SH Reflective
2. Color:
Background - Green
Message - White
3. Message Series - E Modified except all CAP words Series E



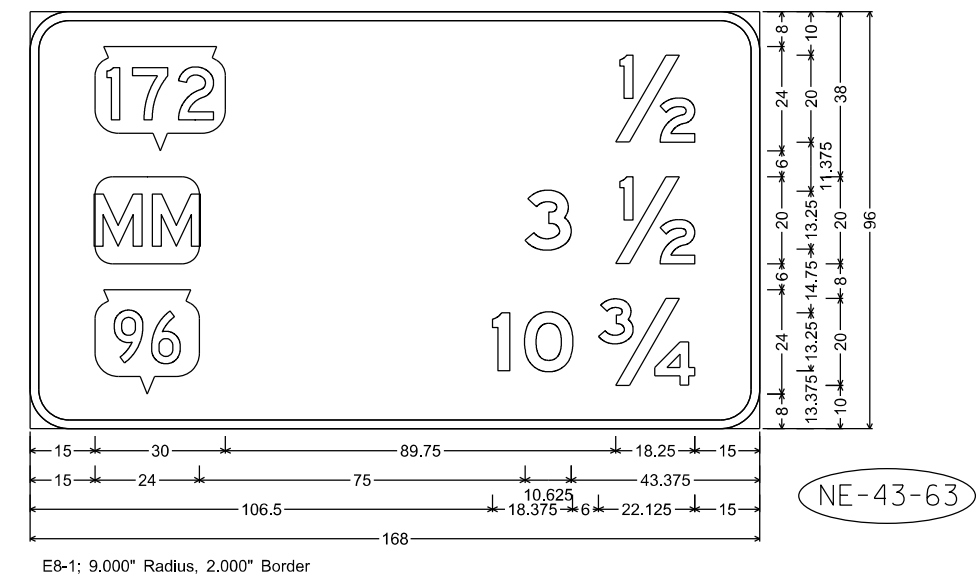
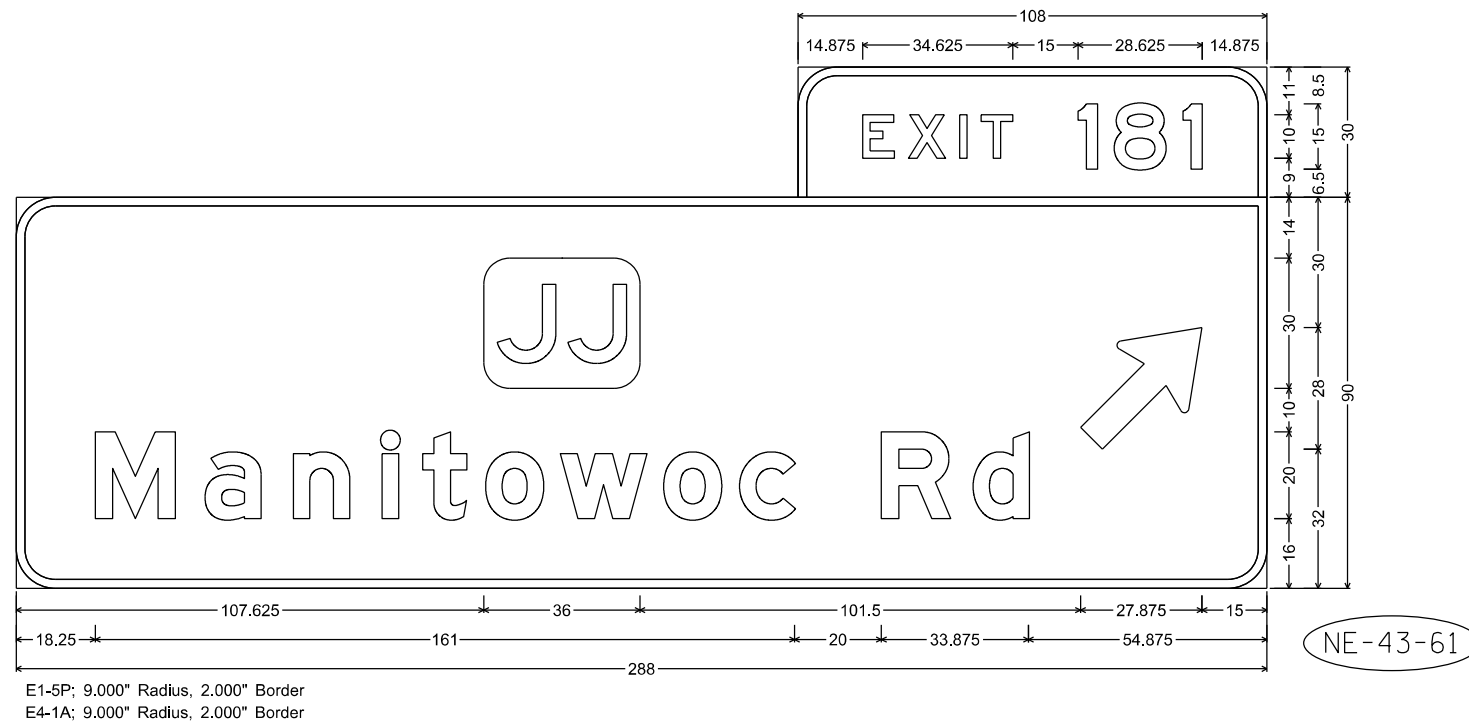
E8-1; 9.000" Radius, 2.000" Border



E1-5P; 9.000" Radius, 2.000" Border
E1-1A; 12.000" Radius, 3.000" Border

NOTES

1. All Signs Type I - Type SH Reflective
2. Color:
Background - Green
Message - White
3. Message Series - E Modified except all CAP words Series E

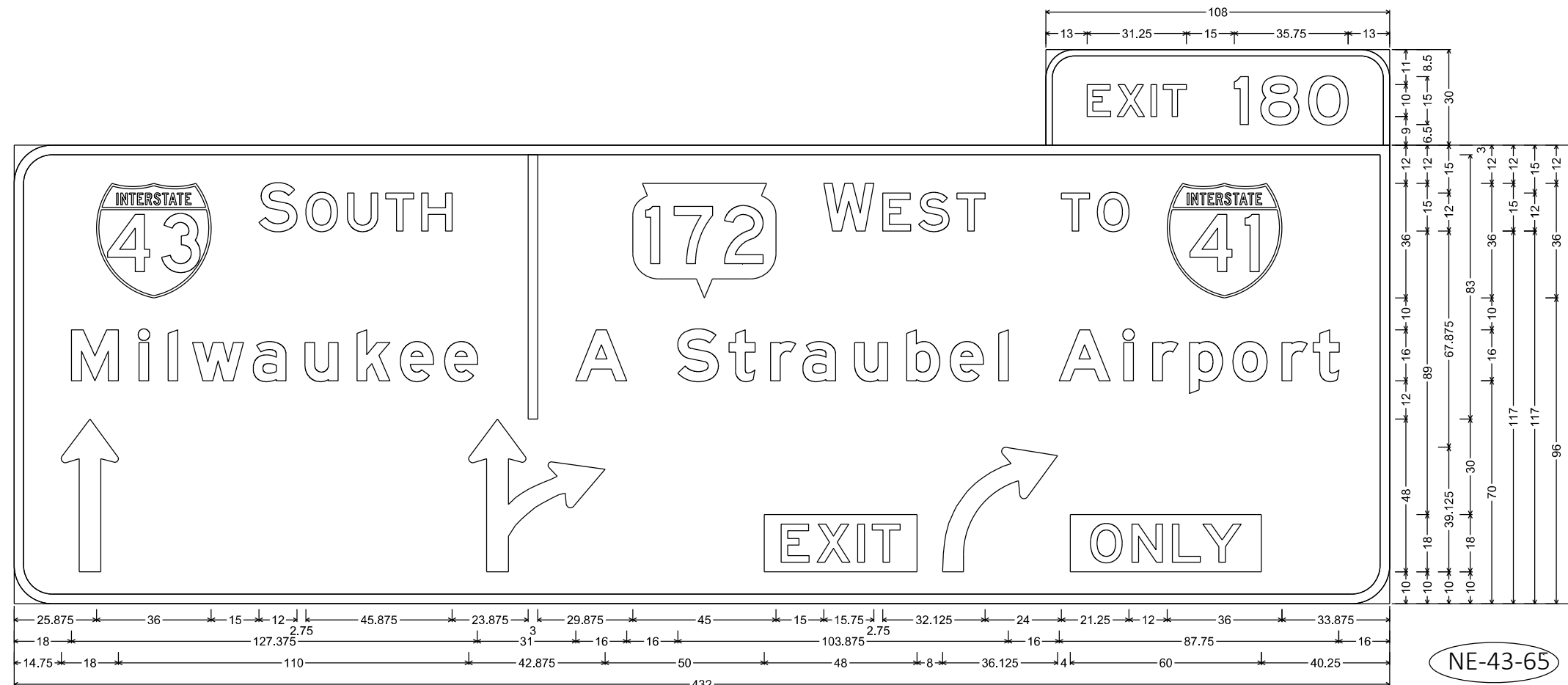
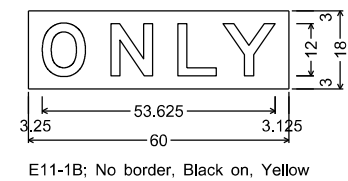
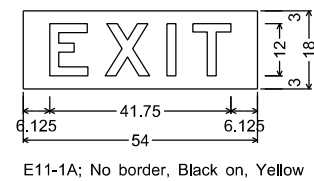


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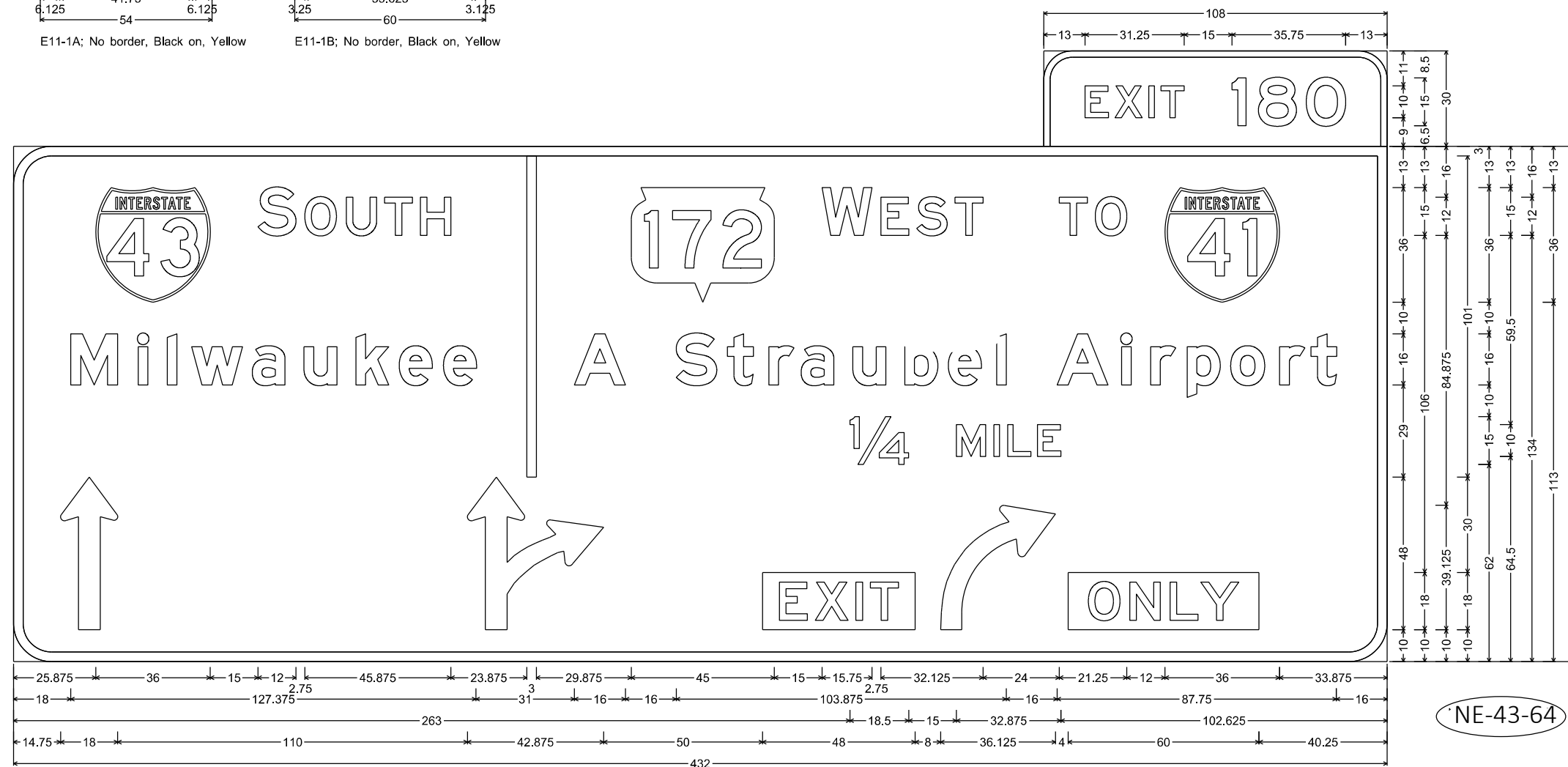
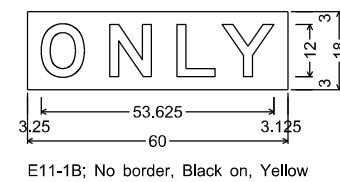
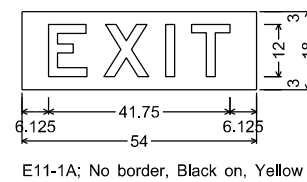
1. All Signs Type I - Type SH Reflective
2. Color:
Background - Green
Message - White
3. Message Series - E Modified except all CAP words Series E
4. Exit and Only Plaque on Yellow Type F Reflective Sheeting with Black Non-Reflective Message
5. Sign requires a vertical splice. Place splice near vertical divider



9,000" Radius, 2,000" Border, White on, Green;
 "EXIT", E; "180", E;
 12,000" Radius, 3,000" Border, White on, Green;
 "SOUTH", E; "Milwaukee", E Mod; State Highway 172 M1-56A; "WEST", E; "TO", E; "A Straubel Airport", E Mod; R3-6L left double headed arrow ir=14.5, s=3.5; R3-6L left double headed arrow ir=14.5, s=3.5;
 Rectangle Fluorescent yellow;
 R3-6L left double headed arrow ir=14.5, s=3.5; Rectangle Fluorescent yellow;

NOTES

1. All Signs Type I - Type SH Reflective
2. Color:
Background - Green
Message - White
3. Message Series - E Modified except all CAP words Series E
4. Exit and Only Plaque on Yellow Type F Reflective Sheeting with Black Non-Reflective Message
5. Sign requires a vertical splice. Place splice near vertical divider



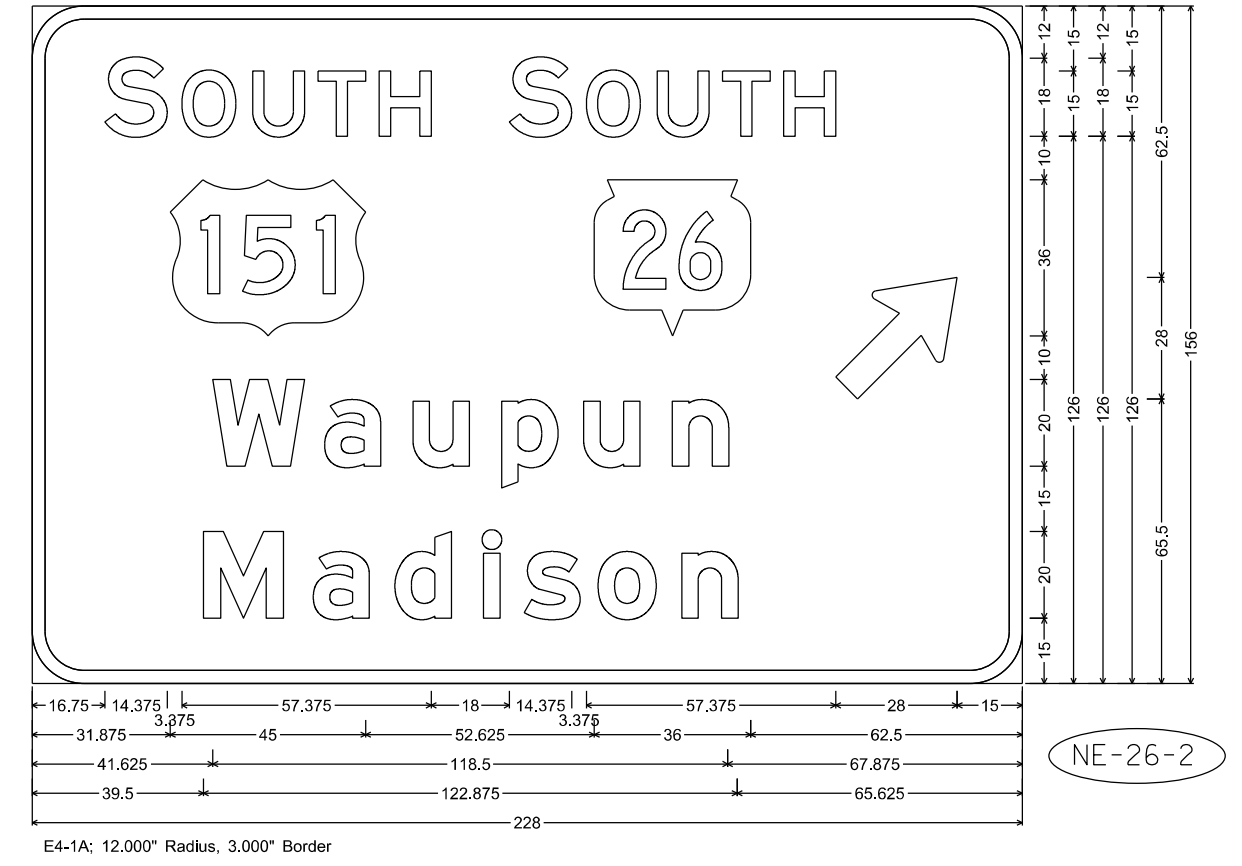
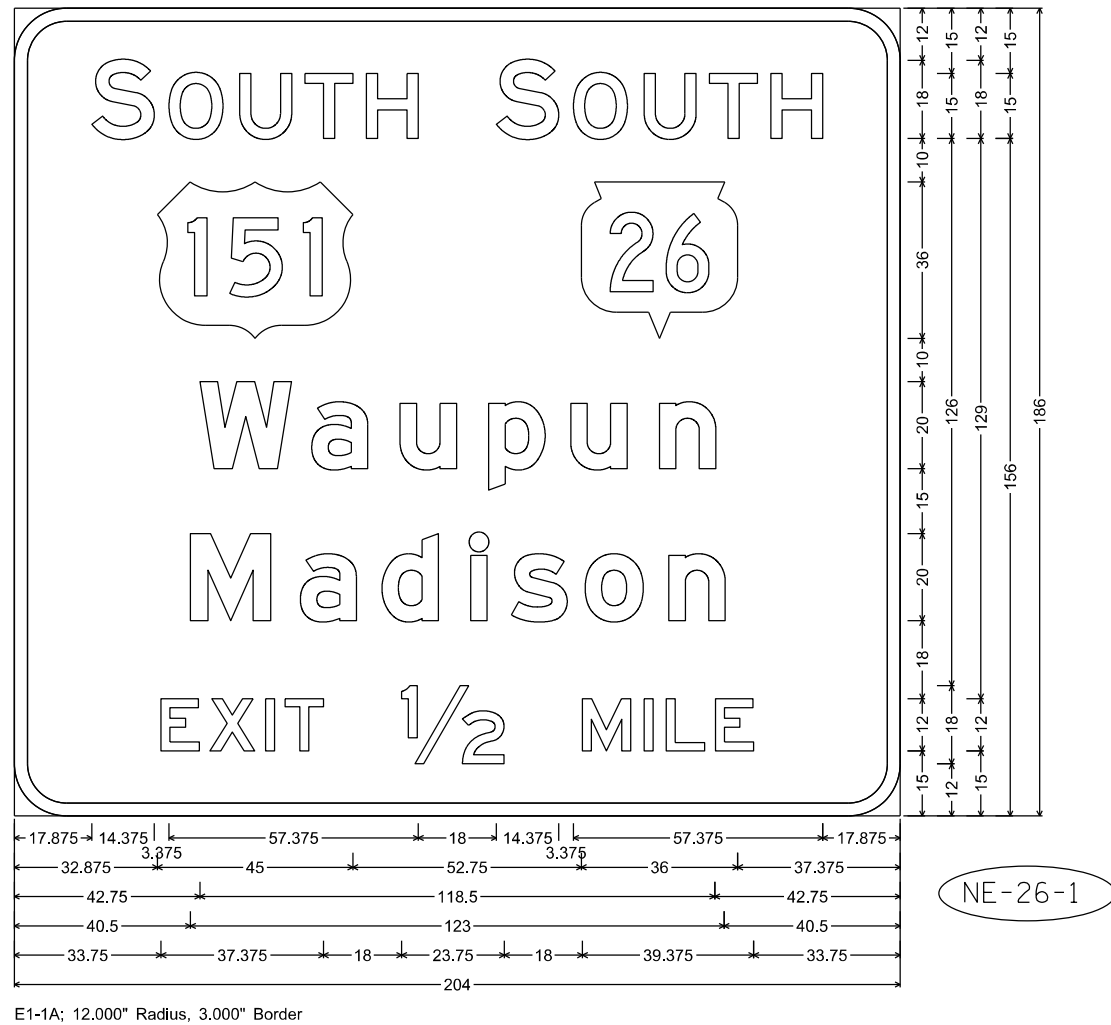
9.000" Radius, 2.000" Border, White on, Green;
 "EXIT", E; "180", E;
 12.000" Radius, 3.000" Border, White on, Green;
 "SOUTH", E; "Milwaukee", E Mod; State Highway 172 M1-56A; "WEST", E; "TO", E; "A Straubel Airport", E Mod; "1/4", E; "MILE", E; R3-6L left double headed arrow ir=14.5, s=3.5; R3-6L left double headed arrow ir=14.5, s=3.5;
 Rectangle Fluorescent yellow;
 R3-6L left double headed arrow ir=14.5, s=3.5; Rectangle Fluorescent yellow;

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NOTES

1. All Signs Type I - Type SH Reflective
2. Color:
Background - Green
Message - White
3. Message Series - E Modified except all CAP words Series E



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Estimate Of Quantities

1000-20-79

Line	Item	Item Description	Unit	Total	Qty
0002	531.1100	Concrete Masonry Ancillary Structures Type NS	CY	51.200	51.200
0004	531.1140	Steel Reinforcement HS Ancillary Structures Type NS	LB	7,428.000	7,428.000
0006	531.2024	Drilling Shaft 24-Inch	LF	426.000	426.000
0008	619.1000	Mobilization	EACH	1.000	1.000
0010	635.0200	Sign Supports Structural Steel HS	LB	29,671.060	29,671.060
0012	635.9010.S	Sign Supports Shorten Structural Steel	EACH	12.000	12.000
0014	635.9020.S	Sign Supports Replacing Base Connection Bolts Legacy System	EACH	104.000	104.000
0016	637.1220	Signs Type I Reflective SH	SF	26,417.000	26,417.000
0018	637.1230	Signs Type I Reflective F	SF	277.625	277.625
0020	638.2601	Removing Signs Type I	EACH	172.000	172.000
0022	638.2602	Removing Signs Type II	EACH	11.000	11.000
0024	638.3000	Removing Small Sign Supports	EACH	22.000	22.000
0026	638.3100	Removing Structural Steel Sign Supports	EACH	38.000	38.000
0028	SPV.0060	Special 01. Traffic Control	EACH	1.000	1.000

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Waukesha STH 164 & CTH Q

Sign Number	Route	Interchange	Location	Sign Code and Description	Width	Height	Order Lines	637.1220 Sign Type I Reflective SH SF	638.2601 Removing Signs Type I EACH	Comments
SE-164-1	STH 164 Northbound	CTH Q	Overhead	E6-51 Advanced Exit Guide Sign (Overhead)	168	102	NORTH 164 Q EAST [UA/RA] County Line Road	119	1	
SE-164-2	STH 164 Northbound	CTH Q	Overhead	E6-51 Advanced Exit Guide Sign (Overhead)	168	102	NORTH Q WEST 164 County Line [LA/UA] Road	119	1	
SE-164-3	STH 164 Southbound	CTH Q	Overhead	E6-52 Overhead Roundabout Guide Sign Left, Ahead Arrows	168	102	South Q EAST 164 County Line [LA/UA] Road	119	1	
SE-164-4	STH 164 Southbound	CTH Q	Overhead	E6-53 Overhead Roundabout Guide Sign Ahead, Right Arrows	168	102	SOUTH 164 Q WEST [UA/RA] County Line	119	1	
SE-164-5	CTH Q Eastbound	STH 164	Overhead	E6-52 Overhead Roundabout Guide Sign Left, Ahead Arrows	96	96	EAST North Q 164 [LA/UA]	64	1	
SE-164-6	CTH Q Eastbound	STH 164	Overhead	E6-53 Overhead Roundabout Guide Sign Ahead, Right Arrows	96	96	EAST Q South [UA/RA] 164	64	1	
SE-164-7	CTH Q Westbound	STH 164	Overhead	E6-52 Overhead Roundabout Guide Sign Left, Ahead Arrows	96	96	WEST South Q 164 [LA/UA]	64	1	
SE-164-8	CTH Q Westbound	STH 164	Overhead	E6-53 Overhead Roundabout Guide Sign Ahead, Right Arrows	96	96	WEST Q North [UA/RA] 164	64	1	
SUBTOTALS								732	8	

Waukesha USH 18

Sign Number	Route	Interchange	Location	Sign Code and Description	Width	Height	Order Lines	637.1220 Sign Type I Reflective SH SF	638.2601 Removing Signs Type I EACH	Comments
SE-18-1	USH 18 Eastbound	Blackwood Dr	Overhead	E6-1 Exit Gore Sign (Overhead)	132	84	TO South 83 [UA/RA] Commercial	77	1	
SE-18-2	USH 18 Eastbound	Blackwood Dr	Overhead	E6-1 Exit Gore Sign (Overhead)	120	84	TO North 83 Blackwood [LA/UA] Drive	70	1	
SUBTOTALS								147	2	

SE REGION TOTALS **879** **10**

Columbia IH 39

Sign Number	Route	Interchange	Location	Sign Code and Description	Width	Height	Order Lines	531.1100 Concrete Masonry Ancillary Structures Type NS CY	531.1140 Steel Reinforcement HS Ancillary Structure Type NS LB	531.2024 Drilling Shaft 24-inch LF	635.0200 Sign Supports Structural Steel HS LBS	637.1220 Sign Type I Reflective SH SF	638.2601 Removing Signs Type I EACH	638.3100 Removing Structural Steel Sign Supports EACH	Comments
SW-39-1	IH 39 Northbound	STH 16/127	Right	E3-1 Destination - Next Right - Exit Number	216	84	Portage Municipal Airport EXIT 98 A	2	302	17	1043.5	126			New Install 2,275' North of WI River Bridge on east side of IH 39 W10x22
SW-39-2	IH 39 Southbound	STH 16/127	Right	E3-1 Destination - Next Right - Exit Number	216	84	Portage Municipal Airport EXIT 98 B-A	2.4	360	20	1265.92	126			New Install at 3850' south of USH 51 Bridge on the West side of IH 39 W10x26
SUBTOTALS								4.4	662	37	2309.42	252	0	0	

Dane USH 151

Sign Number	Route	Interchange	Location	Sign Code and Description	Width	Height	Order Lines	531.1100 Concrete Masonry Ancillary Structures Type NS CY	531.1140 Steel Reinforcement HS Ancillary Structure Type NS LB	531.2024 Drilling Shaft 24-inch LF	635.0200 Sign Supports Structural Steel HS LBS	637.1220 Sign Type I Reflective SH SF	638.2601 Removing Signs Type I EACH	638.3100 Removing Structural Steel Sign Supports EACH	Comments
SW-151-1	USH 151 Northbound	Grand Ave/Reiner Rd	Right	E3-1 Destination - Next Right - Exit Number	180	156	Park & Ride EMERGENCY MEDICAL CARE EXIT 100	2.4	360	20	1550	195	1	2	Remove Medical Care Sign Replace with new sign W12x26
SW-151-2	USH 151 Southbound	Grand Ave/Reiner Rd	Right	E3-1 Destination - Next Right - Exit Number	180	156	Park & Ride EMERGENCY MEDICAL CARE EXIT 100	2.4	360	20	1485	195	1	2	Remove Medical Care Sign Replace with new sign W12x26
SUBTOTALS								4.8	720	40	3035	390	2	4	

SW REGION TOTALS	9.2	1382	77	5344.42	642	2	4
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Fond du Lac IH 41 Northbound

Sign Number	Route	Interchange	Location	Sign Code and Description	Width	Height	Order Lines	531.1100 Concrete Masonry Ancillary Structures Type NS CY	531.1140 Steel Reinforcement HS Ancillary Structure Type NS LB	531.2024 Drilling Shaft 24-inch LF	635.0200 Sign Supports Structural Steel HS LBS	637.1220 Sign Type I Reflective SH SF	637.1230 Sign Type I Reflective F SF	638.2601 Removing Signs Type I EACH	638.3100 Removing Structural Steel Sign Supports EACH	635.9020.S Sign Supports Replacing Base Connection Bolts Legacy System EACH	Comments
NE-41-1	IH 41 Northbound	Exit 92 CTH B	Right	E1-5-P Exit Number for E1-1 & E4-1 E4-1-A Exit Direction Sign with Arrow	108 192	30 126	EXIT 92 B Eden [TR] Oakfield					22.5 168		1		1	
NE-41-2	IH 41 Northbound	After Exit 92 CTH B	Right	D2-3 Destination/Distance (Three) with Die Cut Letters	192	84	Fond Du Lac 5 Oshkosh 26 Green Bay 77					112		1		1	
NE-41-3	IH 41 Northbound	USH 45/151	Right	E9-1 (Area) Next _ Exits	156	54	Fond du Lac NEXT 4 EXITS					58.5		1		1	
NE-41-4	IH 41 Northbound	USH 45/151	Right	E1-5-P Exit Number for E1-1 & E4-1 E1-1-A Advance Exit Guide Sign, __ Mile	108 192	30 186	EXIT 95 SOUTH 45 151 Madison Manitowoc 1 MILE	2.4	360	20	1581.9	248		1	2		install 10' behind existing W12x26
NE-41-5	IH 41 Northbound	USH 45/151	Right	E10-61 144W x 54H Hospital Exit [000]	144	54	Hospital EXIT 95					54		1		1	
NE-41-6	IH 41 Northbound	USH 45/151	Right	E1-5-P Exit Number for E1-1 & E4-1 E4-1-A Exit Direction Sign with Arrow	108 228	30 156	EXIT 95 SOUTH 45 151 Madison [TR] Manitowoc	2.4	360	20	1505.2	247		1	2		install 10' behind existing W12x26
NE-41-7	IH 41 Northbound	Exit 97 CTH VVV	Right	E1-5-P Exit Number for E1-1 & E4-1 E1-1-A Advance Exit Guide Sign, __ Mile	108 204	30 120	EXIT 97 V V V Hickory St 3/4 MILE					22.5 170		1		1	
NE-41-8	IH 41 Northbound	Exit 97 CTH VVV	Right	E1-5-P Exit Number for E1-1 & E4-1 E4-1-A Exit Direction Sign with Arrow	108 240	30 90	EXIT 97 VVV Hickory St [TR]					22.5 150		1		1	
NE-41-9	IH 41 Northbound	Exit 98 CTH D	Overhead	E1-5-P Exit Number for E1-1 & E4-1 E6-51 Advanced Exit Guide Sign (Overhead) E11-1 Exit (Single Down Arrow) Only	108 168 168	30 108 36	EXIT 98 D Military Rd 1/4 Mile EXIT DA ONLY					22.5 126.0	42.0	1			
NE-41-10	IH 41 Northbound	Exit 98 CTH D	Right	E1-1-A Advance Exit Guide Sign, __ Mile	228	114	STATE PATROL HDQRS ----- Fond du Lac Co Airport EXIT 98					180.5		1		1	
NE-41-11	IH 41 Northbound	Exit 98 CTH D	Overhead	E1-5-P Exit Number for E1-1 & E4-1 E6-1 Exit Gore Sign (Overhead) E11-1-D Exit (Single Down Arrow) Only	108 168 168	30 78 42	EXIT 98 D Military Rd EXIT TR ONLY					22.5 91.0	49.0	1			
NE-41-12	IH 41 Northbound	Exit 99 USH 45/STH 23	Right	E1-5-P Exit Number for E1-1 & E4-1 E1-1-A Advance Exit Guide Sign, __ Mile	108 216	30 156	EXIT 99 NORTH 45 23 Johnson St 1 1/4 MILES	2.4	360	20	1471.4	234.0		1	2		Install 10' behind existing W12x26
NE-41-13	IH 41 Northbound	Exit 99 USH 45/STH 23	Right	E8-1 Sequence Sign-Highways __ Miles	276	66	45 23 Johnson St 1 OO Winnebago St 2 3/4					126.5		1		1	
NE-41-14	IH 41 Northbound	Exit 99 USH 45/STH 23	Right	E3-1 Destination - Next Right - Exit Number	168	60	Ripon College EXIT 99					70.0		1		1	
NE-41-15	IH 41 Northbound	Exit 99 USH 45/STH 23	Right	E3-1 Destination - Next Right - Exit Number	156	84	Downtown Fond du Lac EXIT 99					91.0		1		1	
NE-41-16	IH 41 Northbound	Exit 99 USH 45/STH 23	Right	E1-5-P Exit Number for E1-1 & E4-1 E4-1-A Exit Direction Sign with Arrow	108 240	30 120	EXIT 99 NORTH 45 23 Johnson St [TR]	2.4	360	20	1384.3	200.0		1	2		Install 35' south of existing W12x26
NE-41-17	IH 41 Northbound	Exit 101 CTH OO	Right	E1-5-P Exit Number for E1-1 & E4-1 E1-1-A Advance Exit Guide Sign, __ Mile	108 252	30 120	EXIT 101 OO Winnebago St 1 Mile					22.5 210.0		1		1	
NE-41-18	IH 41 Northbound	Exit 101 CTH OO	Right	E1-5-P Exit Number for E1-1 & E4-1 E4-1-A Exit Direction Sign with Arrow	108 288	30 90	EXIT 101 OO Winnebago St [TR]					22.5 180.0		1		1	
NE-41-19	IH 41 Northbound	Exit 101 CTH OO	Right	D2-3 Destination/Distance (Three) with Die Cut Letters	180	84	Oshkosh 17 Appleton 38 Green Bay 69					105.0		1		1	
SUBTOTALS								9.6	1440	80	5942.8	3069	91	19	8	13	

PROJECT NO: 1000-20-79

HWY: IH 41

COUNTY: FOND DU LAC

MISCELLANEOUS QUANTITIES

SHEET:

E

Fond du Lac IH 41 Southbound

Sign Number	Route	Interchange	Location	Sign Code and Description	Width	Height	Order Lines	531.1100 Concrete Masonry Ancillary Structures Type NS CY	531.1140 Steel Reinforcement HS Ancillary Structure Type NS LB	531.2024 Drilling Shaft 24-inch LF	635.0200 Sign Supports Structural Steel HS LBS	637.1220 Sign Type I Reflective SH SF	637.1230 Sign Type I Reflective F SF	638.2601 Removing Signs Type I EACH	638.3100 Removing Structural Steel Sign Supports EACH	635.9020.S Sign Supports Replacing Base Connection Bolts Legacy System EACH	Comments
NE-41-20	IH 41 Southbound	Exit 101 CTH OO	Right	E1-5-P Exit Number for E1-1 & E4-1 E1-1-A Advance Exit Guide Sign, __ Mile	108 252	30 120	EXIT 101 OO Winnebago St 1 Mile					23 210		1		1	
NE-41-21	IH 41 Southbound	Exit 101 CTH OO	Right	E1-5-P Exit Number for E1-1 & E4-1 E4-1-A Exit Direction Sign with Arrow	108 288	30 90	EXIT 101 OO Winnebago St [TR]					23 180		1		1	
NE-41-22	IH 41 Southbound	Exit 99 USH 45/STH 23	Right	E9-1 (Area) Next _ Exits	156	54	Fond du Lac NEXT 4 EXITS					59		1		1	
NE-41-23	IH 41 Southbound	Exit 99 USH 45/STH 23	Right	E1-5-P Exit Number for E1-1 & E4-1 E1-1-A Advance Exit Guide Sign, __ Mile	108 216	30 156	EXIT 99 NORTH 45 23 Johnson St 1 Mile	2.4	360	20	1498.7	23 234		1	2		Install 10' behind existing W12x26
NE-41-24	IH 41 Southbound	Exit 99 USH 45/STH 23	Right	E10-61 144W x 54H Hospital Exit [000]	144	54	Hospital EXIT 99					54		1		1	
NE-41-25	IH 41 Southbound	Exit 99 USH 45/STH 23	Right	E3-1 Destination - Next Right - Exit Number	156	84	Downtown Fond du Lac EXIT 99					91		1		1	
NE-41-26	IH 41 Southbound	Exit 99 USH 45/STH 23	Right	E1-5-P Exit Number for E1-1 & E4-1 E4-1-A Exit Direction Sign with Arrow	108 240	30 120	EXIT 99 NORTH 45 23 Johnson St [TR]	2.4	360	20	1416.8	23 200		1	2		Install 10' behind existing W12x26
NE-41-27	IH 41 Southbound	Exit 98 CTH D	Right	E1-5-P Exit Number for E1-1 & E4-1 E1-1-A Advance Exit Guide Sign, __ Mile	108 216	30 120	EXIT 98 D Military Rd 1 Mile					23 180		1		1	
NE-41-28	IH 41 Southbound	Exit 98 CTH D	Right	I-52-52 132W x 36H State Patrol Hdqrs [1/2] Mile	156	84	STATE PATROL HDQRS EXIT 98					91		1		1	
NE-41-29	IH 41 Southbound	Exit 98 CTH D	Right	E3-1 Destination - Next Right - Exit Number	192	84	Fond du Lac Co Airport Exit 98					112		1		1	
NE-41-30	IH 41 Southbound	Exit 98 CTH D	Right	E1-5-P Exit Number for E1-1 & E4-1 E4-1-A Exit Direction Sign with Arrow	108 240	30 90	EXIT 98 D Military Rd [TR]					23 150		1		1	
NE-41-31	IH 41 Southbound	Exit 97 CTH VVV	Overhead	E1-5-P Exit Number for E1-1 & E4-1 E6-51 Advanced Exit Guide Sign (Overhead)	108 168	30 108	EXIT 97 VVV Hickory St 1/4 Mile					23 126			1		
NE-41-32	IH 41 Southbound	Exit 97 CTH VVV	Overhead	E11-1 Exit (Single Down Arrow) Only E1-5-P Exit Number for E1-1 & E4-1 E6-1 Exit Gore Sign (Overhead)	168 168	36 78	EXIT [DA] ONLY EXIT 97 V V V Hickory St [TR]					42 91			1		
NE-41-33	IH 41 Southbound	Exit 95 USH 45/151	Right	E1-5-P Exit Number for E1-1 & E4-1 E1-1-A Advance Exit Guide Sign, __ Mile	108 192	30 186	EXIT 95 NORTH 45 151 Madison Manitowoc 1/2 Mile	3.6	540	30	2478.8	23 248		1	2		install 10' in front of existing 3 Beams W12x26
NE-41-34	IH 41 Southbound	Exit 95 USH 45/151	Right	E1-5-P Exit Number for E1-1 & E4-1 E3-1 Destination - Next Right - Exit Number	108 228	30 156	EXIT 95 NORTH 45 151 Madison [TR] Manitowoc	2.4	360	20	1228.3	23 247		1	2		Install 10' in front of existing W12x26
NE-41-35	IH 41 Southbound	After Exit 95 USH 45/151	Right	D2-3 Destination/Distance (Three) with Die Cut Letters	180	90	49 7 Lomira 9 Milwaukee 47					113		1		1	
NE-41-36	IH 41 Southbound	Exit 92 CTH B	Right	E1-5-P Exit Number for E1-1 & E4-1 E1-1-A Advance Exit Guide Sign, __ Mile	108 156	30 156	EXIT 92 B Eden Oakfield 1 MILE					23 169		1		1	
NE-41-37	IH 41 Southbound	Exit 92 CTH B	Right	E1-5-P Exit Number for E1-1 & E4-1 E4-1-A Exit Direction Sign with Arrow	108 192	30 126	EXIT 92 B Eden Oakfield [TR]					23 168		1		1	
SUBTOTALS								10.8	1620	90	6622.6	2992	91	18	8	12	

PROJECT NO: 1000-20-79

HWY: IH 41

COUNTY: FOND DU LAC

MISCELLANEOUS QUANTITIES

SHEET:

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Winnebago IH 41

Sign Number	Route	Interchange	Location	Sign Code and Description	Width	Height	Order Lines	531.1100 Concrete Masonry Ancillary Structures Type NS CY	531.1140 Steel Reinforcement HS Ancillary Structure Type NS LB	531.2024 Drilling Shaft 24-inch LF	635.0200 Sign Supports Structural Steel HS LBS	637.1220 Sign Type I Reflective SH SF	638.2601 Removing Signs Type I EACH	638.2602 Removing Signs Type II EACH	638.3000 Removing Small Sign Supports EACH	635.9020.S Sign Supports Replacing Base Connection Bolts Legacy System EACH	Comments
NE-41-38	IH 41 Northbound	Exit 131 STH 114	Right	E10-61 144W x 54H Hospital Exit [000]	144	54	Hospital EXIT 131	1.6	142	13	566	54		1	2		10' in front of existing, 3' back from face of barrier W6x15
NE-41-39	IH 41 Northbound	Exit 131 STH 114	Overhead	E1-5-P Exit Number for E1-1 & E4- 1	108	30	EXIT 131					22.5	1				
				E6-1 Exit Gore Sign (Overhead)	276	90	114 JJ [TR] Winneconne Ave					172.5					
NE-41-40	IH 41 Northbound	Exit 133 CTH II	Right	E1-5-P Exit Number for E1-1 & E4- 1	108	30	EXIT 133					22.5	1				1
				E1-1-A Advance Exit Guide Sign, ___ Mile	264	120	Winchester Rd 1/2 Mile					220					
NE-41-41	IH 41 Southbound	Exit 134 USH 10	Right	E10-61 144W x 54H Hospital Exit [000]	144	54	Hospital Exit 134A					54	1				1
SUBTOTALS								1.6	142	13	566	545.5	3	1	2	2	

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Oconto USH 41 Northbound

Sign Number	Route	Interchange	Location	Sign Code and Description	Width	Height	Order Lines	531.1100 Concrete Masonry Ancillary Structures Type NS CY	531.1140 Steel Reinforcement HS Ancillary Structure Type NS LB	531.2024 Drilling Shaft 24-inch LF	635.0200 Sign Supports Structural Steel HS LBS	637.1220 Sign Type I Reflective SH SF	637.1230 Sign Type I Reflective F SF	638.2601 Removing Signs Type I EACH	638.2602 Removing Signs Type II EACH	638.3000 Removing Small Sign Supports EACH	635.9020.S Sign Supports Replacing Base Connection Bolts Legacy System EACH	635.9010.S Sign Supports Shorten Structural Steel EACH	Comments
NE-41-42	USH 41 Northbound	CTH S	Right	E1-5-P Exit Number for E1-1 & E4-1 E1-1-A Advance Exit Guide Sign, __ Mile	108 144	30 90	EXIT 182 S 1 Mile					22.5 90		1			1	2	
NE-41-43	USH 41 Northbound	CTH S	Right	E1-5-P Exit Number for E1-1 & E4-1 E4-1-A Exit Direction Sign with Arrow	108 168	30 54	EXIT 182 S [TR]					22.5 63		1			1	2	
NE-41-44	USH 41 Northbound	Weigh Station	Median	E1-5-aP Exit Number for E1-1 & E4-1 (LEFT EXIT) E5-56A 144W x 72H Weigh Station 1 Mile	72 144	30 72	LEFT WEIGH STATION 1 Mile						15	1			1		
NE-41-45	USH 41 Northbound	Weigh Station	Median	R13-1 144W x 66H Trucks Over 5 Tons Stop at Weigh Station - Die	144	66	TRUCKS OVER 5 TONS STOP AT WEIGH STA					66		1			1		
NE-41-46	USH 41 Northbound	After CTH S	Right	D2-3 Destination/Distance (Three) with Die Cut Letters	180	84	Crivitz 35 Marinette 36 Iron Mt 80					105		1			1		
NE-41-47	USH 41 Northbound	Weigh Station	Median	E1-5-aP Exit Number for E1-1 & E4-1 (LEFT EXIT) E5-57D Weigh Station Left Lane	72 144	30 60	LEFT WEIGH STATION LEFT LANE						15	1			1		fiber optic on post
NE-41-48	USH 41 Northbound	Weigh Station	Exit Ramp Right	E1-5aP 48W x 30H Left E5-57 144W x 42H Weigh Station	72 144	30 42	LEFT WEIGH STATION					42		1			1		fiber optic tilt on post
NE-41-49	USH 41 Northbound	CTH D	Right	E1-5-P Exit Number for E1-1 & E4-1 E1-1-A Advance Exit Guide Sign, __ Mile	108 228	30 120	EXIT 185 D to EE Sampson Rd 1/2 Mile					22.5 190		1			1		
NE-41-50	USH 41 Northbound	CTH D	Right	E1-5-P Exit Number for E1-1 & E4-1 E4-1-A Exit Direction Sign with Arrow	108 264	30 90	EXIT 185 D to EE [TR] Sampson Rd					22.5 165		1			1		
NE-41-51	USH 41 Northbound	USH 41/141 Spilt	Overhead	E1-5-aP Exit Number for E1-1 & E4-1 (LEFT EXIT) E6-51 Advanced Exit Guide Sign (Overhead)	108 120	48 150	Left Exit 187 141 Crivitz Iron Mt [DA]					36 125	5.625	1					
NE-41-52	USH 41 Northbound	USH 41/141 Spilt	Overhead	E6-51 Advanced Exit Guide Sign (Overhead)	204	150	41 Oconto Marinette [DA] [DA]					212.5		1					
NE-41-53	USH 41 Northbound	After USH 41/141 Split	Right	D2-3 Destination/Distance (Three) with Die Cut Letters	180	84	Oconto 8 Marinette 32 Escanaba 98	2.4	360	20	1271.72	105			1	2			Install 7' behind existing W12x26
NE-41-54	USH 41 Northbound	Bus 41/Oconto	Right	E1-5-P Exit Number for E1-1 & E4-1 E1-1-A Advance Exit Guide Sign, __ Mile	108 144	30 126	EXIT 197 BUS 41 Oconto 1 MILE					22.5 126		1			1		
NE-41-55	USH 41 Northbound	Bus 41/Oconto	Right	E1-5-P Exit Number for E1-1 & E4-1 E4-1-A Exit Direction Sign with Arrow	108 180	30 96	EXIT 197 BUS41 [TR] Oconto					22.5 120		1			1		
NE-41-56	USH 41 Northbound	STH 22	Right	E1-5-P Exit Number for E1-1 & E4-1 E1-51-A Advance Exit Guide Sign, Exit __ Mile	108 144	30 126	EXIT 198 22 Y Oconto Exit 1 Mile					22.5 126		1			1		
NE-41-57	USH 41 Northbound	STH 22	Right	E10-61 144W x 54H Hospital Exit [000]	144	54	HOSPITAL EXIT 198					54		1			1		
NE-41-58R	USH 41 Northbound	After BUS 41	Right	D2-3 Destination/Distance (Three) with Die Cut Letters			Peshigo 14 Marinette 21 Escanaba 77								1	2			Remove only
NE-41-59	USH 41 Northbound	STH 22	Right	E1-5-P Exit Number for E1-1 & E4-1 E4-1-A Exit Direction Sign with Arrow	108 180	30 96	EXIT 198 22 Y Oconto [TR]					22.5 120		1			1		
NE-41-60	USH 41 Northbound	After STH 22	Right	D2-3 Destination/Distance (Three) with Die Cut Letters	180	84	Peshigo 11 Marinette 18 Escanaba 83	2	220	16	971.66	105			1	2			Install 5' behind existing W8x21
SUBTOTALS								4.4	580	36	2243.38	2162.5	50.625	16	3	6	14	4	

Oconto USH 41 Southbound

Sign Number	Route	Interchange	Location	Sign Code and Description	Width	Height	Order Lines	531.1100 Concrete Masonry Ancillary Structures Type NS CY	531.1140 Steel Reinforcement HS Ancillary Structure Type NS LB	531.2024 Drilling Shaft 24-inch LF	635.0200 Sign Supports Structural Steel HS LBS	637.1220 Sign Type I Reflective SH SF	637.1230 Sign Type I Reflective F SF	638.2601 Removing Signs Type I EACH	638.2602 Removing Signs Type II EACH	638.3000 Removing Small Sign Supports EACH	635.9020.S Sign Supports Replacing Base Connection Bolts Legacy System EACH	635.9010.S Sign Supports Shorten Structural Steel EACH	Comments
NE-41-61	USH 41 Southbound	After CTH Y	Right	D2-3 Destination/Distance (Three) with Die Cut Letters	192	90	Oconto 10 141 25 Green Bay 40	2	302	17	1076.28	120			1	2			Install 5' behind existing W10x22
NE-41-62	USH 41 Southbound	Bus 41/ Oconto	Right	E1-5-P Exit Number for E1-1 & E4-1 E1-1-A Advance Exit Guide Sign, __ Mile	120	30	EXIT 200 Bus To 41 S Oconto 1 MILE					25		1			1		
NE-41-63	USH 41 Southbound	Bus 41/ Oconto	Right	E1-5-P Exit Number for E1-1 & E4-1 E4-1-A Exit Direction Sign with Arrow	120	30	EXIT 200 Bus To 41 S Oconto [TR]					25		1			1		
NE-41-64	USH 41 Southbound	STH 22	Right	E1-5-P Exit Number for E1-1 & E4-1 E1-51-A Advance Exit Guide Sign, Exit __ Mile	108	30	EXIT 198 22 Y Oconto Gillett EXIT 1 MILE					22.5		1			1		
NE-41-65	USH 41 Southbound	STH 22	Right	E10-61 144W x 54H Hospital Exit [000]	144	54	HOSPITAL EXIT 198					54		1			1		
NE-41-66	USH 41 Southbound	STH 22	Right	E1-5-P Exit Number for E1-1 & E4-1 E4-1-A Exit Direction Sign with Arrow	108	30	EXIT 198 22 Y Oconto [TR] Gillett					22.5		1			1		
NE-41-67R	USH 41 Southbound	After STH 22	Right	D2-3 Destination/Distance (Three) with Die Cut Letters			Abrams 12 Green Bay 28 Appleton 62								1	2			Remove
NE-41-68	USH 41 Southbound	After Frog Pond Rd	Right	D2-3 Destination/Distance (Three) with Die Cut Letters	192	90	141 9 Green Bay 25 Appleton 50	2	220	16	979.22	120			1	2			install 100' behind existing W8x21
NE-41-69	USH 41 Southbound	USH 41/141 Split	Right	E1-5-P Exit Number for E1-1 & E4-1 E1-1-A Advance Exit Guide Sign, __ Mile	108	30	EXIT 187 141 North Iron Mt 1/2 Mile					22.5		1			1		
NE-41-70	USH 41 Southbound	USH 41/141 Split	Overhead	E1-5-P Exit Number for E1-1 & E4-1 E6-1 Exit Gore Sign (Overhead)	108	30	EXIT 187 141 North Iron Mt [TR]					22.5		1					
NE-41-71	USH 41 Southbound	USH 41/141 Split	Overhead	E6-51 Exit Gore Sign (Overhead)	216	120	41 141 South Green Bay [DA] [DA]					180		1					
NE-41-72	USH 41 Southbound	CTH D	Right	E1-5-P Exit Number for E1-1 & E4-1 E1-1-A Advance Exit Guide Sign, __ Mile	108	30	EXIT 185 D to EE Sampson Rd 1/2 Mile					22.5		1			1		
NE-41-73	USH 41 Southbound	After CTH D	Right	D2-2 Destination/Distance (TWO) with Die Cut Letters	180	60	Green Bay 15 Appleton 41					75		1			1		
NE-41-74	USH 41 Southbound	Exit 185	Right	E1-5-P Exit Number for E1-1 & E4-1 E4-1-A Exit Direction Sign with Arrow	108	30	EXIT 185 D to EE [TR] Sampson Rd					22.5		1			1		
NE-41-75	USH 41 Southbound	Weigh Station	Median	E1-5-aP Exit Number for E1-1 & E4-1 (LEFT EXIT) E5-56 144W x 96H Weigh Station [1] Mile	72	30	LEFT WEIGH STATION 1 Mile						15	1			1		
NE-41-76	USH 41 Southbound	Weigh Station	Median	R13-1 144W x 66H Trucks Over 5 Tons Stop at Weigh Station - Die	144	66	TRUCKS OVER 5 TONS STOP AT WEIGH STA					66		1			1		
NE-41-77	USH 41 Southbound	Weigh Station	Median	E1-5-aP Exit Number for E1-1 & E4-1 (LEFT EXIT) E5-57D Weigh Station Left Lane	72	30	LEFT WEIGH STATION LEFT LANE						15	1			1		fiber optics on posts
NE-41-78	USH 41 Southbound	Weigh Station	Overhead	E1-5-aP Exit Number for E1-1 & E4-1 (LEFT EXIT) E5-57 144W x 42H Weigh Station	72	30	LEFT WEIGH STATION					42		1					fiber optics on posts
NE-41-79	USH 41 Southbound	Exit 185	Overhead	E6-1 Exit Gore Sign (Overhead)	204	96	41 141 South [TR] [TR]					136		1					
NE-41-80	USH 41 Southbound	38.15	Right	E1-5-P Exit Number for E1-1 & E4-1 E1-1-A Advance Exit Guide Sign, __ Mile	108	30	EXIT 182 S 1 MILE					22.5		1			1	2	
NE-41-81	USH 41 Southbound	Exit 182	Right	E1-5-P Exit Number for E1-1 & E4-1 E4-1-A Exit Direction Sign with Arrow	108	30	EXIT 182 S [TR]					22.5		1			1	2	
NE-41-82	USH 41 Southbound	Exit 182	Right	D2-2 Destination/Distance (TWO) with Die Cut Letters	180	60	Green Bay 11 Appleton 38					75		1			1		
NE-41-83	USH 41 Southbound	Exit 179	Right	E1-5-P Exit Number for E1-1 & E4-1 E1-1-A Advance Exit Guide Sign, __ Mile	108	30	EXIT 179 Brown Rd 1 MILE					22.5		1			1		
NE-41-84	USH 41 Southbound	Exit 179	Right	E1-5-P Exit Number for E1-1 & E4-1 E4-1-A Exit Direction Sign with Arrow	108	30	EXIT 179 Brown Rd [TR]					22.5		1			1		
SUBTOTALS								4	522	33	2055.5	2839	45	21	3	6	17	4	

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Marinette USH 41								531.1100 Concrete Masonry Ancillary Structures Type NS CY	531.1140 Steel Reinforcement HS Ancillary Structure Type NS LB	531.2024 Drilling Shaft 24-inch LF	635.0200 Sign Supports Structural Steel HS LBS	637.1220 Sign Type I Reflective SH SF	638.2601 Removing Signs Type I EACH	638.2602 Removing Signs Type II EACH	638.3000 Removing Small Sign Supports EACH	638.3100 Removing Structural Steel Sign Supports EACH	635.9020.S Sign Supports Replacing Base Connection Bolts Legacy System EACH	Comments
Sign Number	Route	Interchange	Location	Sign Code and Description	Width	Height	Order Lines											
NE-41-85	USH 41 Northbound	Exit 212 CTH Y	Right	E1-5-P Exit Number for E1-1 & E4-1 E1-51-A Advance Exit Guide Sign, Exit __ Mile	108 168	30 150	EXIT 212 BUS Y 41 Peshtigo 1 MILE	2.4	360	20	1581.9	22.5 175	1			2		Install 10' in front of existing W12x26
NE-41-86	USH 41 Northbound	Exit 212 CTH Y	Right	E1-5-P Exit Number for E1-1 & E4-1 E4-1-A Exit Direction Sign with Arrow	120 204	30 120	EXIT 212 Y BUS 41 [TR] Peshtigo	2.4	360	20	1485.7	25 170	1			2		Install 10' behind existing W12x26
NE-41-87R	USH 41 Northbound	After CTH Y	Right	D2-3 Destination/Distance (Three) with Die Cut Letters			Marinette 8 Menominee 10 Escanaba 64							1	2			Remove Only
NE-41-88	USH 41 Northbound	Exit 216 Schachr Rd	Right	E1-5-P Exit Number for E1-1 & E4-1 E1-1-A Advance Exit Guide Sign, __ Mile	108 168	30 84	EXIT 216 Peshtigo 1 MILE					22.5 98	1				1	
NE-41-89	USH 41 Northbound	Exit 216 Schachr Rd	Right	E1-5-P Exit Number for E1-1 & E4-1 E4-1-A Exit Direction Sign with Arrow	108 204	30 48	EXIT 216 Peshtigo [TR]					22.5 68	1				1	
NE-41-90	USH 41 Northbound	After Scchachr Rd	Right	D2-3 Destination/Distance (Three) with Die Cut Letters	192	84	Marinette 3 Menominee 5 Escanaba 68	2	302	17	1082	112		1	2			Install 5' in from of existing W10x22
NE-41-91	USH 41 Southbound	Exit 216 Schachr Rd	Right	E1-5-P Exit Number for E1-1 & E4-1 E4-1-A Exit Direction Sign with Arrow	108 168	30 126	EXIT 216 Bus 41 Peshtigo 1 Mile					22.5 147	1				1	
NE-41-92	USH 41 Southbound	Exit 216 Schachr Rd	Right	E1-5-P Exit Number for E1-1 & E4-1 E4-1-A Exit Direction Sign with Arrow	108 204	30 96	EXIT 216 Bus41 [TR] Peshtigo					22.5 136	1				1	
NE-41-93R	USH 41 Southbound	After Schachr Rd	Right	D2-3 Destination/Distance (Three) with Die Cut Letters			Oconto 13 Abrams 25 Green Bay 43							1	2			Remove Only
NE-41-94	USH 41 Southbound	Exit 212 CTH Y	Right	E1-5-P Exit Number for E1-1 & E4-1 E4-1-A Exit Direction Sign with Arrow	108 168	30 120	EXIT 212 Y Peshtigo 1 MILE					22.5 140	1				1	
NE-41-95	USH 41 Southbound	Exit 212 CTH Y	Right	E1-5-P Exit Number for E1-1 & E4-1 E4-1-A Exit Direction Sign with Arrow	108 204	30 90	EXIT 212 Y [TR] Peshtigo					22.5 127.5	1				1	
NE-41-96	USH 41 Southbound	After CTH Y	Right	D2-3 Destination/Distance (Three) with Die Cut Letters	192	84	Oconto 11 141 26 Green Bay 40	2.4	360	20	1364.8	112		1	2			install 250' south of existing W12x26
SUBTOTALS								9.2	1382	77	5514.4	1468	8	4	8	4	6	

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Sheboygan IH 43 Northbound

Sign Number	Route	Interchange	Location	Sign Code and Description	Width	Height	Order Lines	637.1220 Sign Type I Reflective SH SF	638.2601 Removing Signs Type I EACH	638.2602 Removing Signs Type II EACH	638.3100 Removing Structural Steel Sign Supports EACH	635.9020.S Sign Supports Replacing Base Connection Bolts Legacy System EACH	635.9010.S Sign Supports Shorten Structural Steel EACH	Comments
NE-43-1	IH 43 Northbound	Exit 120 CTH V	Right	E1-5-P Exit Number for E1-1 & E4-1 E1-1-A Advance Exit Guide Sign, __ Mile	108 144	30 120	EXIT 120 V OK Waldo 1 Mile	22.5 120	1			1		
NE-43-2	IH 43 Northbound	Exit 120 CTH V	Right	E3-1 Destination - Next Right - Exit Number	168	108	J M Kohler Terry Andrae State Parks EXIT 120	126	1			1		
NE-43-3	IH 43 Northbound	Exit 120 CTH V	Right	E1-5-P Exit Number for E1-1 & E4-1 E4-1-A Exit Direction Sign with Arrow	108 168	30 84	EXIT 120 V OK Waldo [TR]	22.5 98	1			1		
NE-43-4	IH 43 Northbound	Exit 123 STH 28	Right	E1-5-P Exit Number for E1-1 & E4-1 E1-1-A Advance Exit Guide Sign, __ Mile	108 288	30 162	EXIT 123 28 A Sheboygan Sheboygan Falls 1 MILE	22.5 324	1			1		
NE-43-5	IH 43 Northbound	Exit 123 STH 28	Right	E1-5-P Exit Number for E1-1 & E4-1 E4-1-A Exit Direction Sign with Arrow	108 324	30 132	EXIT 123 28 A Sheboygan [TR] Sheboygan Falls	22.5 297	1			1		
NE-43-6	IH 43 Northbound	Exit 126 STH 23	Right	E1-5-P Exit Number for E1-1 & E4-1 E1-1-A Advance Exit Guide Sign, __ Mile	168 204	30 162	EXIT 126 A-B 23 Sheboygan Kohler 1 MILE	35 229.5	1			1		
NE-43-7	IH 43 Northbound	Exit 126 STH 23	Right	E3-1 Destination - Next Right - Exit Number	216	84	HISTORIC DOWNTOWN Sheboygan EXIT 126A	126	1			1	2	Remove Harbor Center
NE-43-8R	IH 43 Northbound	Exit 126 STH 23	Right	E3-1 Destination - Next Right - Exit Number			Old Plank Road Trail Use 23 East		1		2			Remove
NE-43-9R	IH 43 Northbound	Exit 126 STH 23	Right	E3-1 Destination - Next Right - Exit Number			Plymouth EXIT 126B		1		2			Remove
NE-43-10	IH 43 Northbound	Exit 126 STH 23	Right	E1-5-P Exit Number for E1-1 & E4-1 E4-1-A Exit Direction Sign with Arrow	108 240	30 132	EXIT 126 A-B 23 Sheboygan [TR] Kohler	22.5 220	1			1		
NE-43-11	IH 43 Northbound	Exit 126 STH 23	Exit Ramp Overhead	E1-5-P Exit Number for E1-1 & E4-1 E6-1 Exit Gore Sign (Overhead)	132 144	30 144	EXIT 126 B 23 West Kohler Plymouth [DA]	27.5 144	1					
NE-43-12	IH 43 Northbound	Exit 126 STH 23	Exit Ramp Overhead	E1-5-P Exit Number for E1-1 & E4-1 E6-1 Exit Gore Sign (Overhead)	132 204	30 90	126 A 23 EAST Sheboygan [TR]	27.5 127.5	1					
NE-43-13	IH 43 Northbound	Exit 126 STH 23	Exit Ramp Overhead	E1-5-P Exit Number for E1-1 & E4-1 E6-1 Exit Gore Sign (Overhead)	132 180	30 114	EXIT 126 B 23 West Kohler [TR] Plymouth	27.5 142.5	1					
NE-43-14	IH 43 Northbound	Exit 128 STH 42	Right	E1-5-P Exit Number for E1-1 & E4-1 E1-1-A Advance Exit Guide Sign, __ Mile	108 264	30 162	EXIT 128 42 Sheboygan Howards Grove 1 1/4 Miles	22.5 297	1			1		3 BEAMS
NE-43-15	IH 43 Northbound	Exit 128 STH 42	Right	E1-5-P Exit Number for E1-1 & E4-1 E4-1-A Exit Direction Sign with Arrow	108 300	30 132	EXIT 128 42 Sheboygan [TR] Howards Grove	22.5 275	1			1		3 BEAMS
NE-43-16	IH 43 Northbound	Exit 128 STH 42	Exit Ramp Overhead	E6-54-R Overhead Roundabout Guide Sign Right Arrows	168	72	42 North [TL]/[TR] 42 SOUTH Sheboygan	84	1					
NE-43-17	IH 43 Northbound	Exit 128 STH 42	Exit Ramp Overhead	E6-54-L Overhead Roundabout Guide Sign Left Arrows	144	72	42 North Howards Grove LA	72	1					
SUBTOTALS								2957.5	17	0	4	10	2	

Sheboygan IH 43 Southbound

Sign Number	Route	Interchange	Location	Sign Code and Description	Width	Height	Order Lines	637.1220 Sign Type I Reflective SH SF	638.2601 Removing Signs Type I EACH	638.2602 Removing Signs Type II EACH	638.3100 Removing Structural Steel Sign Supports EACH	635.9020.S Sign Supports Replacing Base Connection Bolts Legacy System EACH	635.9010.S Sign Supports Shorten Structural Steel EACH	Comments
NE-43-18	IH 43 Southbound	Exit 128 STH 42	Exit Ramp Overhead	E6-54-L Overhead Roundabout Guide Sign Left Arrows	108	72	42 South Sheboygan TL	54	1					
NE-43-19	IH 43 Southbound	Exit 128 STH 42	Exit Ramp Overhead	E6-54-R Overhead Roundabout Guide Sign Right Arrows	144	72	42 North Howards Grove TR	72	1					
NE-43-20	IH 43 Southbound	After STH 42	Overhead	E8-1 Sequence Sign-Highways __ Miles	168	96	Hwy 23 1 1/2 Hwy 28 4 1/4 Hwy V 7 1/4	112	1					
NE-43-21	IH 43 Southbound	Exit 126 STH 23	Right	E1-5-P Exit Number for E1-1 & E4-1 E1-1-A Advance Exit Guide Sign, __ Mile	168 204	30 162	126 B-A 23 Sheboygan Kohler 1 1/4 Miles	35 229.5	1			1		
NE-43-22R	IH 43 Southbound	Exit 126 STH 23	Right	E3-1 Destination - Next Right - Exit Number			Plymouth Exit 126 B	0	1		2			Remove
NE-43-23	IH 43 Southbound	Exit 126 STH 23	Right	E3-1 Destination - Next Right - Exit Number	216	84	HISTORIC DOWNTOWN Sheboygan Exit 126 A	126	1			1	2	Remove Harbor Center
NE-43-24	IH 43 Southbound	Exit 126 STH 23	Right	E10-61 144W x 54H Hospital Exit [000]	144	54	Hospital EXIT 126A	54	1			1		
NE-43-25R	IH 43 Southbound	Exit 126 STH 23	Right	E3-1 Destination - Next Right - Exit Number			Sheboygan Co Airport Exit 126 B	0	1		2			Remove
NE-43-26R	IH 43 Southbound	Exit 126 STH 23	Right	E3-1 Destination - Next Right - Exit Number			Old Plank Road Trail Use 23 East	0	1		2			Remove
NE-43-27	IH 43 Southbound	Exit 126 STH 23	Right	E1-5-P Exit Number for E1-1 & E4-1 E4-1-A Exit Direction Sign with Arrow	168 240	30 132	EXIT 126 B-A 23 Sheboygan [TR] Kohler	35 220	1			1		
NE-43-28	IH 43 Southbound	Exit 126 STH 23	Exit Ramp Overhead	E1-5-P Exit Number for E1-1 & E4-1 E6-1 Exit Gore Sign (Overhead)	132 168	30 120	EXIT 126 A 23 East Sheboygan [DA]	27.5 140	1					
NE-43-29	IH 43 Southbound	Exit 126 STH 23	Exit Ramp Overhead	E1-5-P Exit Number for E1-1 & E4-1 E6-1 Exit Gore Sign (Overhead)	132 180	30 114	EXIT 126 B 23 West Kohler [TR] Plymouth	27.5 142.5	1					
NE-43-30	IH 43 Southbound	Exit 126 STH 23	Exit Ramp Overhead	E1-5-P Exit Number for E1-1 & E4-1 E6-1 Exit Gore Sign (Overhead)	132 204	30 90	EXIT 126 A 23 East Sheboygan [TR]	27.5 127.5	1					
NE-43-31	IH 43 Southbound	Exit 123 STH 28	Right	E1-5-P Exit Number for E1-1 & E4-1 E1-1-A Advance Exit Guide Sign, __ Mile	108 288	30 162	EXIT 123 28 A Sheboygan Sheboygan Falls 1 1/4 Miles	22.5 324	1			1		3 BEAMS
NE-43-32	IH 43 Southbound	Exit 123 STH 28	Right	E1-5-P Exit Number for E1-1 & E4-1 E4-1-A Exit Direction Sign with Arrow	108 324	30 132	EXIT 123 28 A Sheboygan [TR] Sheboygan Falls	22.5 297	1			1		3 BEAMS
NE-43-33	IH 43 Southbound	After STH 28	Right	D2-3 Destination/Distance (Three) with Die Cut Letters	252	90	Hwy V 2 Port Washington 23 Milwaukee 51	157.5	1			1		
NE-43-34	IH 43 Southbound	Exit 120 CTH V	Right	E1-5-P Exit Number for E1-1 & E4-1 E1-1-A Advance Exit Guide Sign, __ Mile	108 144	30 120	EXIT 120 V OK Waldo 1 Mile	22.5 120	1			1		
NE-43-35	IH 43 Southbound	Exit 120 CTH V	Right	E3-1 Destination - Next Right - Exit Number	168	108	J M Kohler Terry Andrae State Parks EXIT 120	126	1			1		
NE-43-36	IH 43 Southbound	Exit 120 CTH V	Right	E1-5-P Exit Number for E1-1 & E4-1 E4-1-A Exit Direction Sign with Arrow	108 168	30 84	EXIT 120 V OK Waldo [TR]	22.5 98	1			1		
NE-43-37	IH 43 Southbound	After CTH V	Right	D2-3 Destination/Distance (Three) with Die Cut Letters	252	90	Hwy AA 2 Port Washington 19 Milwaukee 47	157.5	1			1		
SUBTOTALS								2800	20	0	6	11	2	

3

3

Brown IH 43 Northbound

Sign Number	Route	Interchange	Location	Sign Code and Description	Width	Height	Order Lines	531.1100 Concrete Masonry Ancillary Structures Type NS CY	531.1140 Steel Reinforcement HS Ancillary Structure Type NS LB	531.2024 Drilling Shaft 24-inch LF	635.0200 Sign Supports Structural Steel HS LBS	637.1220 Sign Type I Reflective SH SF	638.2601 Removing Signs Type I EACH	638.3100 Removing Structural Steel Sign Supports EACH	635.9020.S Sign Supports Replacing Base Connection Bolts Legacy System EACH	Comments
NE-43-38	IH 43 Northbound	CTH JJ	Right	E1-5-P Exit Number for E1-1 & E4-1 E1-1-A Advance Exit Guide Sign, __ Mile	108 252	30 120	Exit 181 JJ Manitowoc Rd 1 Mile					22.5 210	1		1	
NE-43-39	IH 43 Northbound	CTH JJ	Median	E8-1 Sequence Sign-Highways __ Miles	216	90	Mason sat 1 54-57 3 1/4 Webster Ave 5 1/4					135	1			
NE-43-40	IH 43 Northbound	CTH V	Right	E10-61 144W x 54H Hospital Exit [000]	144	54	Hospital EXIT 183					54	1		1	
NE-43-41	IH 43 Northbound	CTH V	Right	E1-5-P Exit Number for E1-1 & E4-1 E1-51-A Advance Exit Guide Sign, Exit __ Mile	108 180	30 120	EXIT 183 V Mason St EXIT 1/2 MILE					22.5 150	1		1	
NE-43-42	IH 43 Northbound	CTH V	Right	E1-5-P Exit Number for E1-1 & E4-1 E4-1-A Exit Direction Sign with Arrow	108 216	30 90	EXIT 183 V [TR] Mason St					22.5 135	1		1	
NE-43-43	IH 43 Northbound	CTH V	Median	E8-1-A Seq. Sign - City Name - Name- Highways - __ Miles	228	90	54-57 1 3/4 Webster Ave 3 3/4 Atkinson Dr 6 1/4					142.5	1			
NE-43-44	IH 43 Northbound	STH 54	Right	E1-5-P Exit Number for E1-1 & E4-1 E1-51-A Advance Exit Guide Sign, Exit __ Mile	108 252	30 162	Exit 185 54 57 Sturgeon Bay Algoma 1 1/4 Miles					22.5 283.5	1		1	
NE-43-45	IH 43 Northbound	STH 54	Right	E1-5-P Exit Number for E1-1 & E4-1 E4-1-A Exit Direction Sign with Arrow	108 288	30 132	Exit 185 54 57 Sturgeon Bay [TR] Algoma					22.5 264	1		1	
NE-43-46	IH 43 Northbound	STH 54	Median	E8-1 Sequence Sign-Highways __ Miles	216	90	Webster Ave 3/4 Atkinson Dr 3 1/4 41-141 5 1/4					135	1			
NE-43-47	IH 43 Northbound	Webster Ave		E3-1 Destination - Next Right - Exit Number	168	108	Traveler Trailer Sanitary Station HOSPITAL Exit 187	2.4	360	20	1381.96	126	1	2		install 10' behind existing sign W12x26
NE-43-48	IH 43 Northbound	Webster Ave	Median	E8-1 Sequence Sign-Highways __ Miles	192	60	Atkinson Dr 2 Hwy 41-141 4					80	1			
SUBTOTALS								2.4	360	20	1381.96	1881.5	12	2	7	

3

3

Brown IH 43 Southbound

Sign Number	Route	Interchange	Location	Sign Code and Description	Width	Height	Order Lines	531.1100 Concrete Masonry Ancillary Structures Type NS CY	531.1140 Steel Reinforcement HS Ancillary Structure Type NS LB	531.2024 Drilling Shaft 24-inch LF	635.0200 Sign Supports Structural Steel HS LBS	637.1220 Sign Type I Reflective SH SF	638.2601 Removing Signs Type I EACH	638.3100 Removing Structural Steel Sign Supports EACH	635.9020.S Sign Supports Replacing Base Connection Bolts Legacy System EACH	Comments
NE-43-49	IH 43 Southbound	Webster Ave	Right	D5-95 180W x 72H Travel Trailer Sanitary Station In Rest Area	180	72	Travel Trailer Sanitary Station EXIT 187					90	1		1	
NE-43-50	IH 43 Southbound	Webster Ave	Median	E8-1 Sequence Sign-Highways __ Miles	216	90	Webster 1 1/2 54 57 3 Mason St 6					135	1			
NE-43-51	IH 43 Southbound	Webster Ave	Right	E10-61 144W x 54H Hospital Exit [000]	144	54	Hospital Exit 187					54	1		1	
NE-43-52	IH 43 Southbound	Webster Ave	Median	E8-1 Sequence Sign-Highways __ Miles	192	90	54 57 1 Mason St 4 Hwy JJ 5 1/4					120	1			
NE-43-53	IH 43 Southbound	STH 54	Right	E1-5-P Exit Number for E1-1 & E4-1 E1-1-A Advance Exit Guide Sign, __ Mile	108 252	30 162	EXIT 185 54 57 Sturgeon Bay Algoma 3/4 MILE					22.5 283.5	1		1	
NE-43-54	IH 43 Southbound	STH 54	Right Right	E1-5-P Exit Number for E1-1 & E4-1 E4-1-A Exit Direction Sign with Arrow	108 288	30 132	Exit 185 54 57 Sturgeon Bay [TR] Algoma					22.5 264	1		1	
NE-43-55	IH 43 Southbound	STH 54	Median	E8-1 Sequence Sign-Highways __ Miles	180	90	Mason St 2 JJ 3 1/4 172 4					112.5	1			
NE-43-56	IH 43 Southbound	STH 54	Right	E1-5-P Exit Number for E1-1 & E4-1 E1-1-A Advance Exit Guide Sign, __ Mile	108 180	30 120	EXIT 183 V Mason St 1 Mile					22.5 150	1		1	
NE-43-57	IH 43 Southbound	CTH V	Right	E10-61 144W x 54H Hospital Exit [000]	144	54	HOSPITAL EXIT 183					54	1		1	
NE-43-58	IH 43 Southbound	CTHV	Right	E1-5-P Exit Number for E1-1 & E4-1 E4-1-A Exit Direction Sign with Arrow	108 216	30 90	EXIT 183 V [TR] Mason St					22.5 135	1		1	
NE-43-59	IH 43 Southbound	CTH V	Median	E8-1-A Seq. Sign - City Name - Name- Highways - __ Miles	168	96	JJ 1 1/4 172 2 MM 5					112	1			
NE-43-60	IH 43 Southbound	CTH JJ	Right	E1-5-P Exit Number for E1-1 & E4-1 E1-1-A Advance Exit Guide Sign, __ Mile	108 252	30 120	Exit 181 JJ Manitowoc Rd 1/2 Mile					22.5 210	1		1	
NE-43-61	IH 43 Southbound	CTH JJ	Right	E1-5-P Exit Number for E1-1 & E4-1 E4-1-A Exit Direction Sign with Arrow	108 288	30 90	Exit 181 JJ [TR] Manitowoc Rd					22.5 180	1		1	
NE-43-62R	IH 43 Southbound	IH43/41 Split	Right	E3-1 Destination - Next Right - Exit Number			Arena Stadium Exit 180						1	2		Remove only
NE-43-63	IH 43 Southbound	IH43/41 Split	Median	E8-1 Sequence Sign-Highways __ Miles	168	96	172 1/2 MM 3 1/2 96 10 3/4					112	1			
NE-43-64	IH 43 Southbound	IH43/41 Split	Overhead	E1-5-P Exit Number for E1-1 & E4-1 E6-1 Exit Gore Sign (Overhead)	108 432	30 162	Exit 180 43 SOUTH/ 172 West To I-41 Milwaukee/ A Straubel Airport 1/4 Mile [UA] [U/RA] Exit [RA] Only					22.5 486	1			
NE-43-65	IH 43 Southbound	IH43/41 Split	Overhead	E1-5-P Exit Number for E1-1 & E4-1 E7-3 Overhead Arrow Per Lane Guide Sign [3 Arrows]	108 432	30 144	Exit 180 43 SOUTH/ 172 West To I-41 Milwaukee/ A Straubel Airport [UA] [U/RT] EXIT [RT] ONLY					22.5 432	1			
SUBTOTALS								0	0	0	0	3110	17	2	9	

Fond du Lac STH 26

Sign Number	Route	Interchange	Location	Sign Code and Description	Width	Height	Order Lines	637.1220 Sign Type I Reflective SH	638.2601 Removing Signs Type I EACH	635.9020.S Sign Supports Replacing Base Connection Bolts Legacy System EACH	Comments
NE-26-1	STH 26 Southbound	Cattaraugus Rd	Right	E1-51-A Advance Exit Guide Sign, Exit __ Mile	204	186	South South 151 26 Waupun Madison Exit 1/2 Mile	263.5	1	1	
NE-26-2	STH 26 Southbound	North Frontage Rd	Right	E4-1-A Exit Direction Sign with Arrow	228	156	South South 151 26 Waupun [TR] Madison	247	1	1	

SUBTOTALS **510.5** **2** **2**

Sheboygan STH 42

Sign Number	Route	Interchange	Location	Sign Code and Description	Width	Height	Order Lines	637.1220 Sign Type I Reflective SH	638.2601 Removing Signs Type I EACH	635.9020.S Sign Supports Replacing Base Connection Bolts Legacy System EACH	Comments
NE-42-1	STH 42 Northbound	IH 43	Overhead	E6-54-R Overhead Roundabout Guide Sign Right Arrows	108	72	43 NORTH Green Bay [RB]	54	1		
NE-42-2	STH 42 Northbound	IH 43	Overhead	E6-54-A Overhead Roundabout Guide Sign Ahead Arrows	108	72	TO 43 SOUTH Milwaukee [DA]	54	1		
NE-42-3	STH 42 Northbound	IH 43	Overhead	E6-54-A Overhead Roundabout Guide Sign Ahead Arrows	144	72	42 NORTH Howards Grove [DA]	72	1		
NE-42-4	STH 42 Southbound	IH 44	Overhead	E6-54-A Overhead Roundabout Guide Sign Ahead Arrows	108	72	42 South Sheboygan [DA]	54	1		
NE-42-5	STH 42 Southbound	IH 43	Overhead	E6-54-R Overhead Roundabout Guide Sign Right Arrows	108	72	43 SOUTH Milwaukee [TR]	54	1		
NE-42-6	STH 42 Southbound	IH 43	Overhead	E6-54-A Overhead Roundabout Guide Sign Ahead Arrows	108	72	TO 43 NORTH Green Bay [DA]	54	1		

SUBTOTALS **342** **6** **0**

Outagamie STH 441

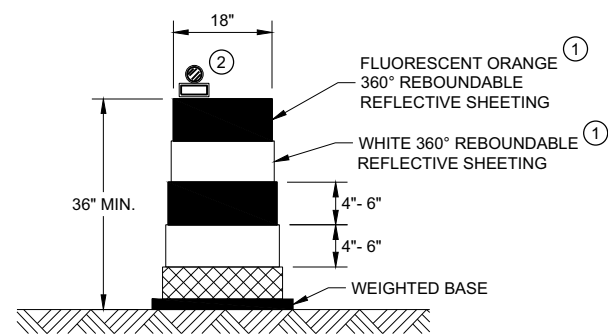
Sign Number	Route	Interchange	Location	Sign Code and Description	Width	Height	Order Lines	637.1220 Sign Type I Reflective SH SF	638.2601 Removing Signs Type I EACH	635.9020.S Sign Supports Replacing Base Connection Bolts Legacy System EACH	Comments
NE-441-1	STH 441 Northbound		Right	E3-1 Destination - Next Right - Exit Number	276	114	Lawrence University Fox Cities Performing Arts Center EXIT 8	218.5	1	1	

SUBTOTALS **218.5** **1** **1**

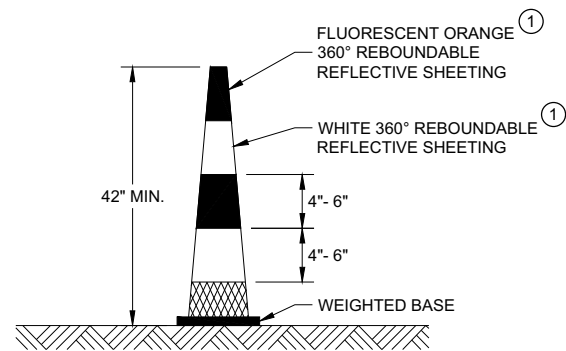
Route	531.1100 Concrete Masonry Ancillary Structures Type NS CY	531.1140 Steel Reinforcement HS Ancillary Structure Type NS LB	531.2024 Drilling Shaft 24-inch LF	635.0200 Sign Supports Structural Steel HS LBS	637.1220 Sign Type I Reflective SH SF	637.1230 Sign Type I Reflective F SF	638.2601 Removing Signs Type I EACH	638.2602 Removing Signs Type II EACH	638.3000 Removing Small Sign Supports EACH	638.3100 Removing Structural Steel Sign Supports EACH	635.9020.S Sign Supports Replacing Base Connection Bolts Legacy System EACH	635.9010.S Sign Supports Shorten Structural Steel EACH
Fond Du Lac 41	20.4	3060	170	12565.4	6061	182	37	0	0	16	25	0
Winnebago 41	1.6	142	13	566	545.5	0	3	1	2	0	2	0
Oconto 41	8.4	1102	69	4298.88	5001.5	95.625	37	6	12	0	31	8
Marinette 41	9.2	1382	77	5514.4	1468	0	8	4	8	4	6	0
Brown 43	2.4	360	20	1381.96	4991.5	0	29	0	0	4	16	0
Sheboygan 43	0	0	0	0	5757.5	0	37	0	0	10	21	4
Fond Du Lac STH 26	0	0	0	0	510.5	0	2	0	0	0	2	0
Sheboygan STH 42	0	0	0	0	342	0	6	0	0	0	0	0
Outagamie STH 441	0	0	0	0	218.5	0	1	0	0	0	1	0
NE Region Total	42	6046	349	24326.64	24896	277.625	160	11	22	34	104	12

Standard Detail Drawing List

15C11-08B	CHANNELIZING DEVICES DRUMS, CONES, BARRICADES AND VERTICAL PANELS
15D12-09A	TRAFFIC CONTROL, LANE CLOSURE
15D14-04	TRAFFIC CONTROL, TWO LANE CLOSURE ON FREEWAY OR EXPRESSWAY, SHORT-TERM (LESS THAN 24 HOURS)
15D15-05A	TRAFFIC CONTROL, PARALLEL ENTRANCE RAMP WITHIN LANE CLOSURE
15D15-05C	TRAFFIC CONTROL, TAPERED ENTRANCE RAMP WITHIN LANE CLOSURE
15D16-04	TRAFFIC CONTROL, EXIT RAMP CLOSURE
15D20-05A	TRAFFIC CONTROL, SINGLE LANE CLOSURE, NON-FREEWAY/EXPRESSWAY
15D27-03	TRAFFIC CONTROL, SHOULDER CLOSURE ON DIVIDED ROADWAY, SPEEDS GREATER THAN 40 MPH
15D28-04	TRAFFIC CONTROL, WORK ON SHOULDER OR PARKING LANE, UNDIVIDED ROADWAY
15D37-03	TRAFFIC CONTROL, 2-LANE ROUNDABOUT
15D40-01	TRAFFIC CONTROL, LANE SHIFT, MULTILANE DIVIDED OR ONE WAY ROAD
15D40-02B	TRAFFIC CONTROL, FULL LANE SHIFT MULTILANE DIVIDED 50 MPH AND GREATER

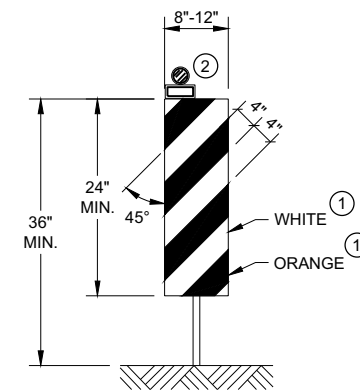


DRUM



42" CONE

DO NOT USE IN TAPERS
 1/2 SPACING OF DRUMS

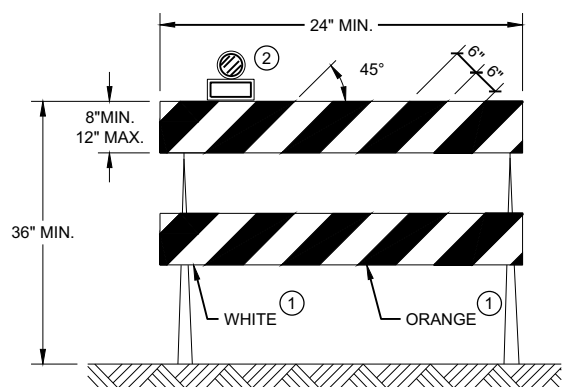


VERTICAL PANEL

THE STRIPES SHALL SLOPE DOWNWARD TO THE TRAFFIC SIDE FOR CHANNELIZATION.

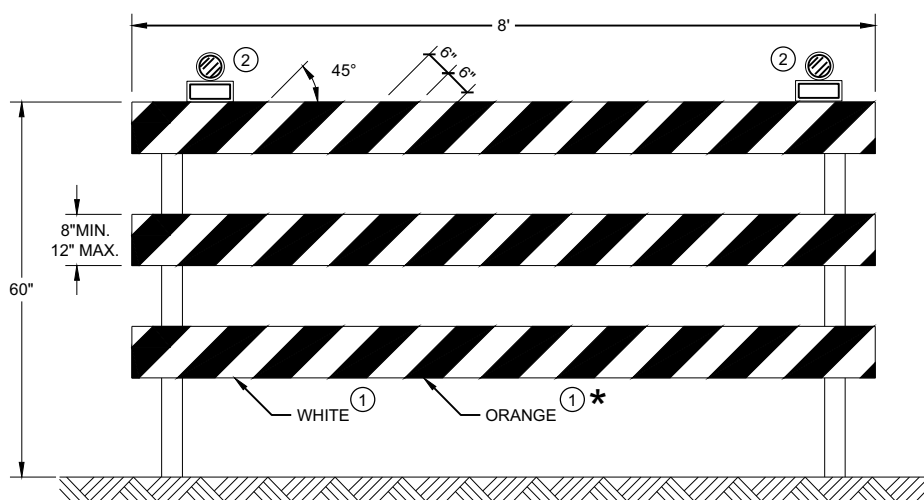
GENERAL NOTES

- ① REFLECTIVE SHEETING SHALL FOLLOW THE REQUIREMENTS IN THE APPROVED PRODUCTS LISTING FOR SIGN SHEETING.
- ② LOCATION OF WARNING LIGHTS WHEN SHOWN ON THE PLAN.



TYPE II BARRICADE

FOR RAILS LESS THAN 36" LONG, 4" WIDE STRIPES MAY BE USED. ALL STRIPES SHALL SLOPE DOWNWARD TO THE TRAFFIC SIDE FOR CHANNELIZATION.



TYPE III BARRICADE

IF SIGN MOUNTED, DO NOT COVER MORE THAN 50% OF THE TOP TWO RAILS OR 33% OF THE TOTAL AREA OF THE THREE RAILS.

* IF USED FOR A PERMANENT APPLICATION USE RED SHEETING.

**CHANNELIZING DEVICES
 DRUMS, CONES, BARRICADES
 AND VERTICAL PANELS**

STATE OF WISCONSIN
 DEPARTMENT OF TRANSPORTATION

APPROVED
 November 2020 /S/ Andrew Heidtke
 DATE WORK ZONE ENGINEER
 FHWA

GENERAL NOTES

THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

THE SPACING BETWEEN SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND TO PROVIDE A MINIMUM OF 200 FEET (500 FEET DESIRABLE) CLEARANCE TO EXISTING SIGNS.

THIS LANE CLOSURE IS TYPICAL FOR CLOSING RIGHT LANE - REVERSE FOR CLOSING LEFT LANE.

ALL SIGNS ARE 48" x 48" UNLESS OTHERWISE NOTED.

"WO" IS THE SAME AS "W" EXCEPT THE BACKGROUND IS ORANGE.

ANY SIGNS TEMPORARY OR EXISTING, WHICH CONFLICT WITH TRAFFIC CONTROL "IN USE" SHALL BE REMOVED OR COVERED AS NEEDED OR AS APPROVED BY THE ENGINEER.

FOR A LANE CLOSURE THAT IS IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS, THE ADVANCED WARNING SIGNS MAY BE MOUNTED ON PORTABLE SUPPORTS.

REMOVE PAVEMENT MARKINGS IF LANE CLOSURE IS TO BE IN PLACE 4 OR MORE CONTINUOUS DAYS AND NIGHTS.

IF THE HORIZONTAL ALIGNMENT IS SUCH THAT A CURVE MAY REQUIRE ADDITIONAL DELINEATION, THE DEVICE SPACING MAY BE DECREASED TO 50 FEET.










WARNING LIGHTS ARE NOT REQUIRED IF THE LANE CLOSURE IS A DAYTIME ONLY OPERATION.

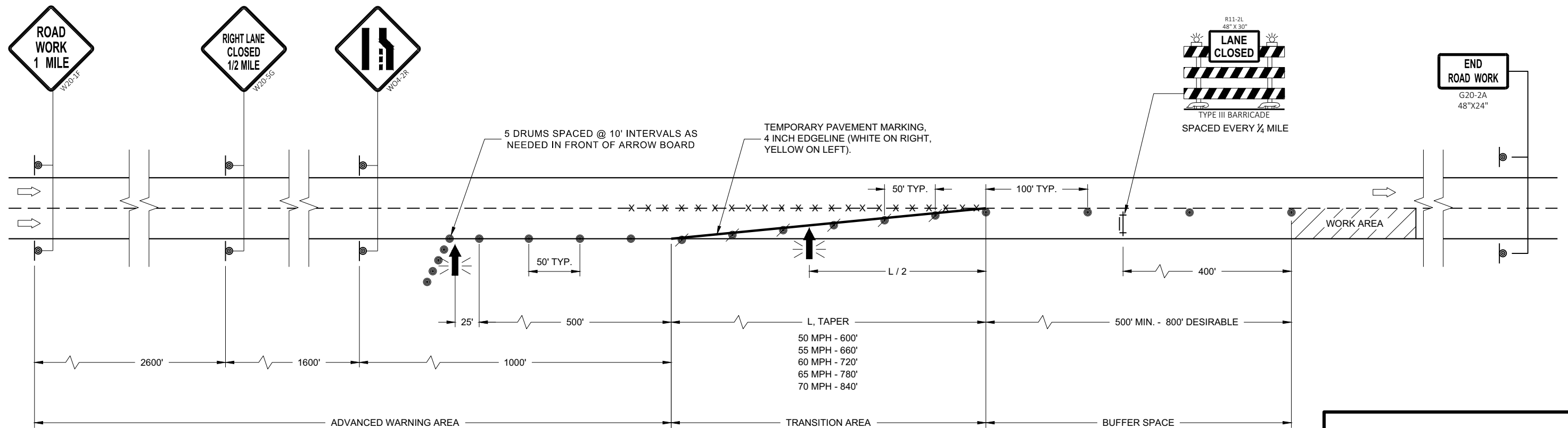
ADJUSTMENTS IN BUFFER SPACE NEED TO BE INCORPORATED WHEN THE LANE CLOSURE OCCURS

NEAR AN INTERCHANGE EXIT OR ENTRANCE RAMP OR INTERSECTION. THE LANE CLOSURE MUST TAKE PLACE FAR ENOUGH IN ADVANCE OF AN EXIT OR ENTRANCE RAMP TO STILL ALLOW FOR ADEQUATE BUFFER SPACE. THE MINIMUM LENGTH OF THE BUFFER SPACE BEFORE AN EXIT RAMP SHOULD BE ONE HALF THE LENGTH OF THE TRANSITION AREA. THE ENTRANCE RAMP SHOULD BE FOLLOWED BY THE ORIGINAL BUFFER SPACE LENGTH OF 800 FEET DESIRABLE PRIOR TO ANOTHER TRAFFIC CONTROL CHANGE SUCH AS A CROSSOVER MANEUVER.

CONSIDER ROADWAY GEOMETRICS WHEN LOCATING SIGNS AND ARROW BOARD SO THE DRIVER HAS A CLEAR VIEW OF THE ARROW BOARD AND LANE CLOSURE DRUMS.

LEGEND

-  SIGN ON PERMANENT SUPPORT
-  TRAFFIC CONTROL DRUM
-  TRAFFIC CONTROL DRUM WITH TYPE "C" STEADY BURN LIGHT
-  TYPE III BARRICADE WITH ATTACHED SIGN
-  TYPE "A" WARNING LIGHT (FLASHING)
-  REMOVING PAVEMENT MARKINGS
-  DIRECTION OF TRAFFIC
-  WORK AREA
-  FLASHING ARROW BOARD












TRAFFIC CONTROL LANE CLOSURE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
August 2020 /S/ Andrew Heidtke
DATE WORK ZONE ENGINEER

FHWA

LEGEND

-  SIGN ON TEMPORARY SUPPORT
-  TRAFFIC CONTROL DRUM
-  TRAFFIC CONTROL DRUM WITH TYPE "C" STEADY BURN LIGHT
-  TYPE III BARRICADE
-  TYPE III BARRICADE WITH ATTACHED SIGN
-  TYPE "A" WARNING LIGHT (FLASHING)
-  FLASHING ARROW BOARD
-  DIRECTION OF TRAFFIC
-  WORK AREA

GENERAL NOTES

THIS DETAIL IS TYPICAL FOR CLOSING THE RIGHT TWO LANES. FOR CLOSING THE LEFT TWO LANES, REVERSE THE TRAFFIC CONTROL.

ALL SIGNS ARE 48"X48" UNLESS OTHERWISE NOTED.

"WO" SIGN IS THE SAME AS "W" SIGN EXCEPT THE BACKGROUND IS ORANGE.

ANY SIGNS TEMPORARY OR EXISTING, WHICH CONFLICT WITH THE TRAFFIC CONTROL "IN USE" SHALL BE REMOVED OR COVERED AS NEEDED AND AS APPROVED BY THE ENGINEER. NO WARNING LIGHTS SHALL BE WORKING ON COVERED OR "DOWNED" SIGNS.

THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

THE SPACING BETWEEN TRAFFIC CONTROL SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND TO PROVIDE A MINIMUM OF 200 FEET (500' DESIRABLE) DISTANCE TO EXISTING SIGNS THAT WILL REMAIN IN PLACE

W20-1E AND G20-2A SIGNS ARE NOT REQUIRED IF THE LANE CLOSURE IS WITHIN A LARGER WORK ZONE WHERE THESE SIGNS ARE ALREADY PRESENT.

CONSIDER ROADWAY GEOMETRICS WHEN LOCATING SIGNS AND ARROW BOARDS SO THE APPROACHING DRIVER HAS A CLEAR VIEW OF THE ARROW BOARDS AND LANE CLOSURE DRUMS.

WHEN A RAMP OR SIDE ROAD INTERSECTS THE FACILITY ON WHICH THE WORK IS BEING PERFORMED, ADDITIONAL TRAFFIC CONTROLS SHALL BE PROVIDED AS SPECIFIED IN THE PLANS AND/OR SPECIAL PROVISIONS OR AS APPROVED BY THE ENGINEER.

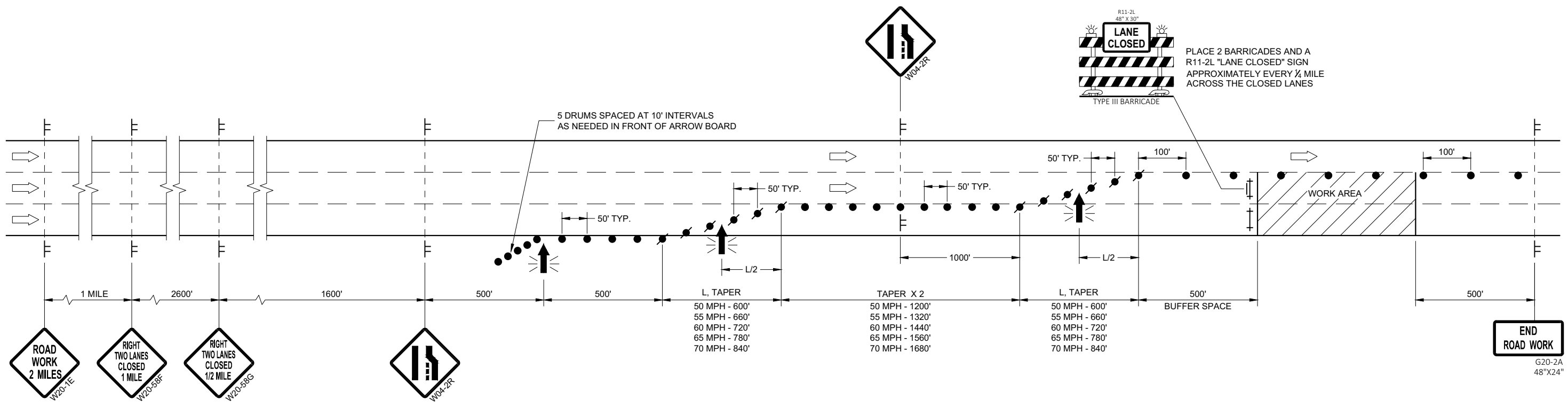
BARRICADES IN A CLOSED LANE THAT MUST BE MOVED FOR A WORK OPERATION SHALL BE IMMEDIATELY REESTABLISHED UPON COMPLETION OF THE OPERATION, OR FOR CONTINUING OPERATIONS, AT THE END OF EACH WORKING DAY.

CHANNELIZING DEVICES PLACED ADJACENT TO WORK AREA SHALL BE PULLED BACK FROM THE TRAVEL LANE WHEN WORK IS NOT IN PROGRESS.

WARNING LIGHTS ARE NOT REQUIRED IF THE LANE CLOSURE IS A DAYTIME ONLY OPERATION.

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SDD 15D14 - 04

SDD 15D14 - 04

TRAFFIC CONTROL, TWO LANE CLOSURE ON FREEWAY OR EXPRESSWAY, SHORT TERM (LESS THAN 24 HOURS)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
May 2020 DATE /S/ Andrew Heidtke
STATEWIDE WORK ZONE TRAFFIC SAFETY ENGINEER

FHWA

LEGEND

-  SIGN ON PERMANENT SUPPORT
-  SIGN ON TEMPORARY SUPPORT
-  TRAFFIC CONTROL DRUM
-  TRAFFIC CONTROL DRUM WITH TYPE "C" STEADY BURN LIGHT
-  REMOVING PAVEMENT MARKING (SEE GENERAL NOTES)
-  TYPE III BARRICADE WITH ATTACHED SIGN
-  DIRECTION OF TRAFFIC

GENERAL NOTES

THE INSTALLATIONS SHOWN ON THIS SHEET ARE TYPICAL EXAMPLES AND ARE NOT INTENDED TO REPRESENT ANY PARTICULAR RAMP. AT SPECIFIC FIELD LOCATIONS, SIMILAR INSTALLATIONS SHALL BE USED AND ADJUSTED TO THE GEOMETRICS OF THE RAMP AS COORDINATED WITH THE ENGINEER.

THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

THE SPACING BETWEEN TRAFFIC CONTROL SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND SHOULD PROVIDE A MINIMUM OF 200 FEET (500 FEET DESIRABLE) CLEARANCE TO EXISTING SIGNS THAT WILL REMAIN IN PLACE.

ALL SIGNS ARE 48" X 48" UNLESS OTHERWISE NOTED.

"WO" IS THE SAME AS "W" EXCEPT THE BACKGROUND IS ORANGE.

SEE SEPARATE LANE CLOSURE DETAIL FOR TYPICAL SPACING OF TYPE III BARRICADES AND R11-2L "LANE CLOSED" SIGNS.

SIGNS THAT WILL BE IN PLACE LESS THAN 7 CONSECUTIVE DAYS AND NIGHTS OR THAT WILL BE PLACED IN A CLOSED LANE, MAY BE MOUNTED ON PORTABLE SUPPORTS. USE SUPPORTS THAT PROVIDE A MINIMUM OF 5 FEET FROM THE BOTTOM OF THE SIGN TO THE PAVEMENT.

IF INDICATED IN MISCELLANEOUS QUANTITIES, SUBSTITUTE FLEXIBLE TUBULAR MARKERS FOR DRUMS IN THE GORE BETWEEN THE ENTRANCE RAMP AND MAINLINE TRAFFIC.

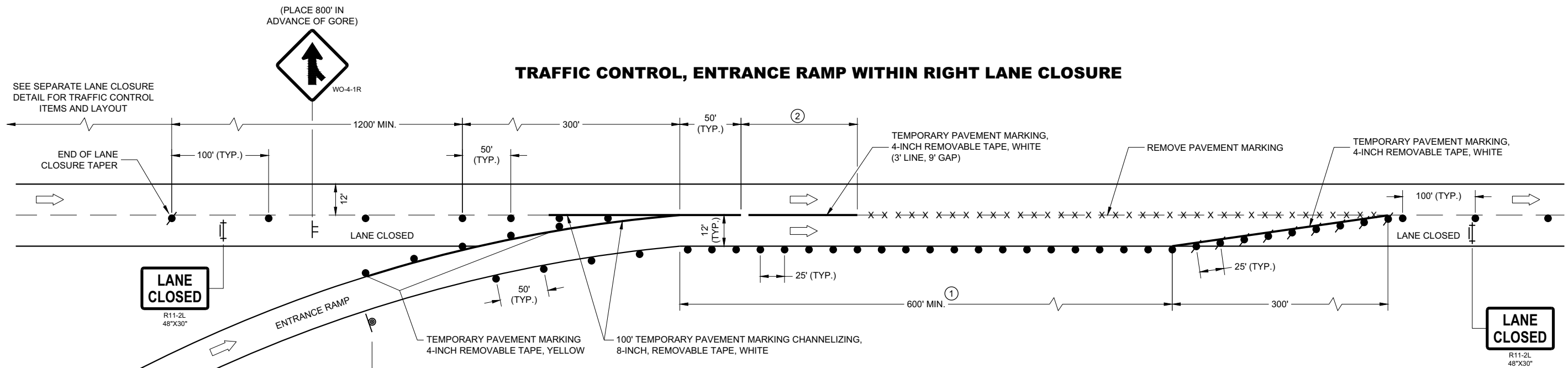
ANY SIGNS TEMPORARY OR EXISTING, WHICH CONFLICT WITH TRAFFIC CONTROL "IN USE" SHALL BE REMOVED OR COVERED AS NEEDED AND AS APPROVED BY THE ENGINEER.

REMOVE PAVEMENT MARKINGS AND PLACE TEMPORARY PAVEMENT MARKING, REMOVABLE TAPE IF LANE CLOSURE IS TO BE IN PLACE FOR 4 OR MORE CONTINUOUS DAYS AND NIGHTS.

WARNING LIGHTS ARE NOT REQUIRED IF THE LANE CLOSURE IS A DAYTIME ONLY OPERATION.

- ① EXTEND THE LENGTH OF THE MERGE ARE IF THE ENTERING (DESIGN) SPEED IS LESS THAN 50MPH OR IF THE MAINLINE GRADE EXCEEDS ±2.2%.
- ② END TEMPORARY MARKING AT ½ THE LENGTH OF FULL WIDTH OF THE ACCELERATION LANE.

TRAFFIC CONTROL, ENTRANCE RAMP WITHIN RIGHT LANE CLOSURE



PARALLEL EXIT RAMP









**TRAFFIC CONTROL,
PARALLEL ENTRANCE RAMP
WITHIN LANE CLOSURE**

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
DATE: May 2019 /S/ Andrew Heidtke
WORK ZONE ENGINEER

FHWA

LEGEND

-  SIGN ON PERMANENT SUPPORT
-  SIGN ON TEMPORARY SUPPORT
-  TRAFFIC CONTROL DRUM
-  TRAFFIC CONTROL DRUM WITH TYPE "C" STEADY BURN LIGHT
-  REMOVING PAVEMENT MARKING (SEE GENERAL NOTES)
-  TYPE III BARRICADE WITH ATTACHED SIGN
-  FLAGS, 16" X 16" MIN., ORANGE
-  DIRECTION OF TRAFFIC

GENERAL NOTES

THE INSTALLATIONS SHOWN ON THIS SHEET ARE TYPICAL EXAMPLES AND ARE NOT INTENDED TO REPRESENT ANY PARTICULAR RAMP. AT SPECIFIC FIELD LOCATIONS, SIMILAR INSTALLATIONS SHALL BE USED AND ADJUSTED TO THE GEOMETRICS OF THE RAMP AS COORDINATED WITH THE ENGINEER.

THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

THE SPACING BETWEEN TRAFFIC CONTROL SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND SHOULD PROVIDE A MINIMUM OF 200 FEET (500 FEET DESIRABLE) CLEARANCE TO EXISTING SIGNS THAT WILL REMAIN IN PLACE.

ALL SIGNS ARE 48" X 48" UNLESS OTHERWISE NOTED.

"WO" IS THE SAME AS "W" EXCEPT THE BACKGROUND IS ORANGE.

SEE SEPARATE LANE CLOSURE DETAIL FOR TYPICAL SPACING OF TYPE III BARRICADES AND R11-2L "LANE CLOSED" SIGNS.

YIELD SIGN AND WARNING SIGNS ON ENTRANCE RAMP ARE ALSO APPROPRIATE FOR CLOSURE OF THE MAINLINE LEFT LANE. OMIT THE YIELD SIGN IF MORE THAN ONE LANE REMAINS OPEN ON THE MAINLINE AND THE RAMP TAPER IS AT LEAST AS LONG AS THE NORMAL ENTRANCE RAMP TAPER AT THE SITE.

SIGNS THAT WILL BE IN PLACE LESS THAN 7 CONSECUTIVE DAYS AND NIGHTS OR THAT WILL BE PLACED IN A CLOSED LANE, MAY BE MOUNTED ON PORTABLE SUPPORTS. USE SUPPORTS THAT PROVIDE A MINIMUM OF 5 FEET FROM THE BOTTOM OF THE SIGN TO THE PAVEMENT.

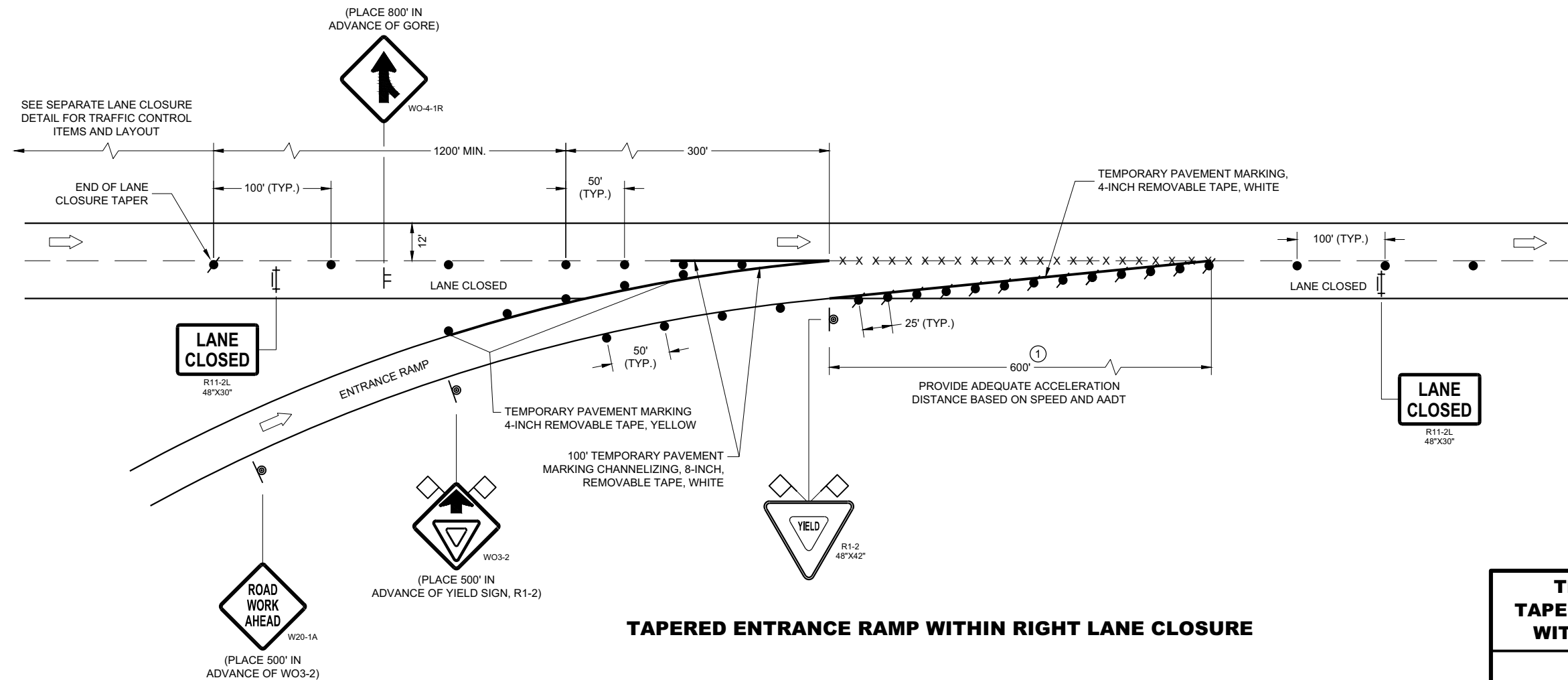
IF INDICATED IN MISCELLANEOUS QUANTITIES, SUBSTITUTE FLEXIBLE TUBULAR MARKERS FOR DRUMS IN THE GORE BETWEEN THE ENTRANCE RAMP AND MAINLINE TRAFFIC.

ANY SIGNS TEMPORARY OR EXISTING, WHICH CONFLICT WITH TRAFFIC CONTROL "IN USE" SHALL BE REMOVED OR COVERED AS NEEDED AND AS APPROVED BY THE ENGINEER.

REMOVE PAVEMENT MARKINGS AND PLACE TEMPORARY PAVEMENT MARKING, REMOVABLE TAPE IF LANE CLOSURE IS TO BE IN PLACE FOR 4 OR MORE CONTINUOUS DAYS AND NIGHTS.

WARNING LIGHTS ARE NOT REQUIRED IF THE LANE CLOSURE IS A DAYTIME ONLY OPERATION.

① CONSULT WITH REGIONAL WORK ZONE ENGINEER IF NEED TO REDUCE LENGTH EXISTS.



TAPERED ENTRANCE RAMP WITHIN RIGHT LANE CLOSURE

**TRAFFIC CONTROL,
TAPERED ENTRANCE RAMP
WITHIN LANE CLOSURE**

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
DATE: May 2019 /S/ Andrew Heidtke
WORK ZONE ENGINEER

FHWA

LEGEND

- † TYPE III BARRICADE
- †† TYPE III BARRICADE WITH ATTACHED SIGN
- TRAFFIC CONTROL DRUM
- ⊙ SIGN ON PERMANENT SUPPORT
- ⚡ TYPE "A" WARNING LIGHT (FLASHING)
- ➔ DIRECTION OF TRAFFIC

GENERAL NOTES

THIS RAMP CLOSURE DETAIL IS TYPICAL FOR CLOSING A RIGHT SIDE EXIT RAMP. FOR A LEFT SIDE EXIT RAMP, REVERSE THE TRAFFIC CONTROL.

THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

THE SPACING BETWEEN TRAFFIC CONTROL SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND SHOULD PROVIDE A MINIMUM OF 200 FEET (500 FEET DESIRABLE) CLEARANCE TO EXISTING SIGNS THAT WILL REMAIN IN PLACE.

ALL SIGNS ARE 48" X 48" UNLESS OTHERWISE NOTED.

SIGNS THAT WILL BE IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS MAY BE MOUNTED ON PORTABLE SUPPORTS.

ANY SIGNS, TEMPORARY OR EXISTING, WHICH CONFLICT WITH TRAFFIC CONTROL "IN USE" SHALL BE REMOVED OR COVERED AS NEEDED AND AS APPROVED BY THE ENGINEER.

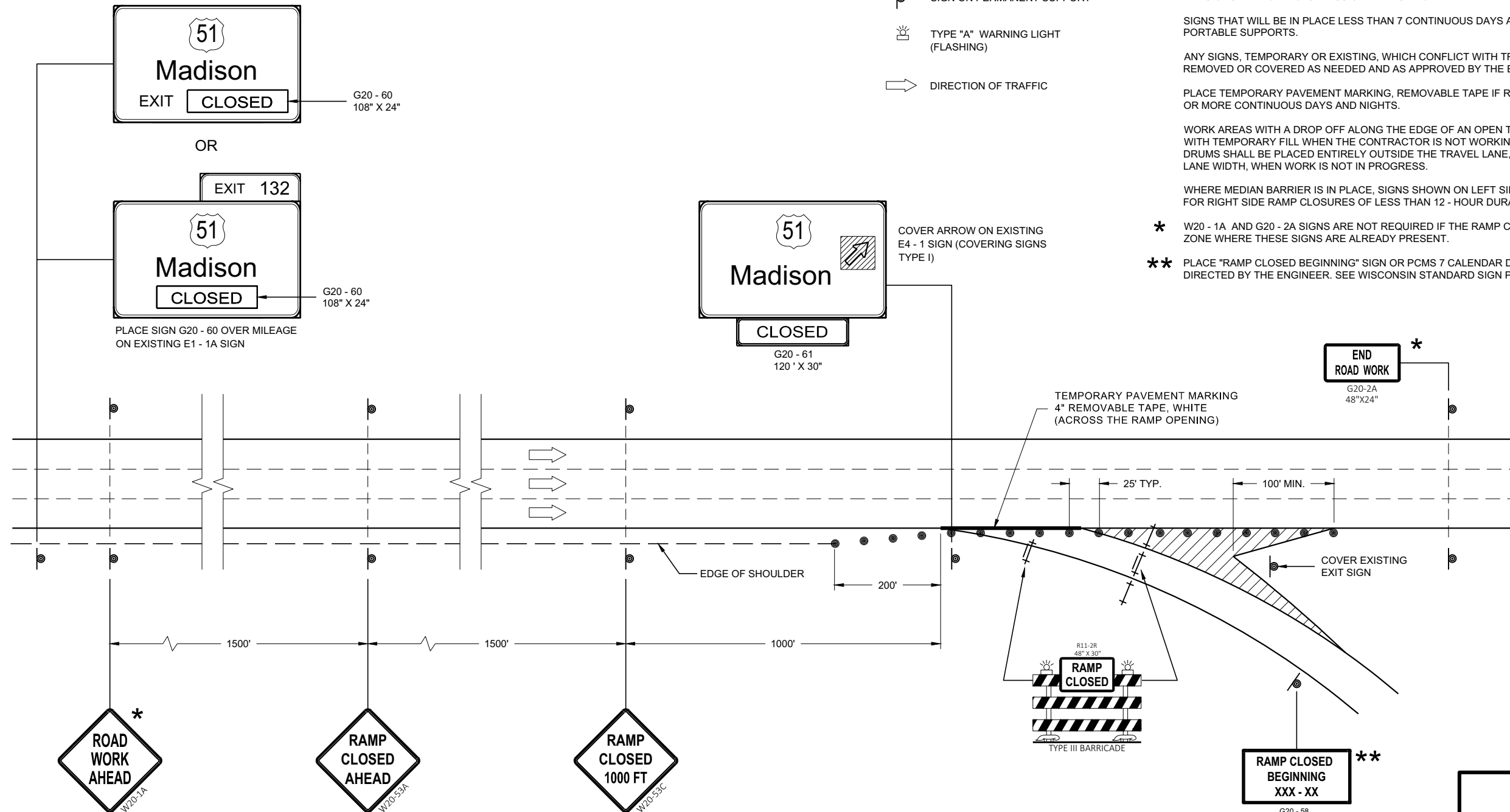
PLACE TEMPORARY PAVEMENT MARKING, REMOVABLE TAPE IF RAMP CLOSURE IS TO BE IN PLACE 4 OR MORE CONTINUOUS DAYS AND NIGHTS.

WORK AREAS WITH A DROP OFF ALONG THE EDGE OF AN OPEN TRAVEL LANE SHALL BE LEVELED WITH TEMPORARY FILL WHEN THE CONTRACTOR IS NOT WORKING ADJACENT TO THE TRAVEL LANE. DRUMS SHALL BE PLACED ENTIRELY OUTSIDE THE TRAVEL LANE, ALLOWING THE FULL UNOBSTRUCTED LANE WIDTH, WHEN WORK IS NOT IN PROGRESS.

WHERE MEDIAN BARRIER IS IN PLACE, SIGNS SHOWN ON LEFT SIDE OF ROADWAY MAY BE OMITTED FOR RIGHT SIDE RAMP CLOSURES OF LESS THAN 12 - HOUR DURATION.

* W20 - 1A AND G20 - 2A SIGNS ARE NOT REQUIRED IF THE RAMP CLOSURE IS WITHIN A LARGER WORK ZONE WHERE THESE SIGNS ARE ALREADY PRESENT.

** PLACE "RAMP CLOSED BEGINNING" SIGN OR PCMS 7 CALENDAR DAYS PRIOR TO CLOSURE OR AS DIRECTED BY THE ENGINEER. SEE WISCONSIN STANDARD SIGN PLATES FOR SIGN LAYOUT.



RAMP CLOSED BEGINNING	
G20 - 58	
OR	
PCMS MESSAGING	
FRAME 1	FRAME 2
RAMP TO CLOSE	XXXDAY XX XX XX










**TRAFFIC CONTROL,
EXIT RAMP CLOSURE**

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
November 2018 DATE /S/ Andrew Heidtke
ROADWAY STANDARDS DEVELOPMENT ENGINEER

FHWA

LEGEND

-  SIGN ON PERMANENT SUPPORT
-  TRAFFIC CONTROL DRUM
-  TRAFFIC CONTROL DRUM WITH TYPE "C" STEADY BURN LIGHT
-  TYPE III BARRICADE WITH ATTACHED SIGN
-  TYPE "A" WARNING LIGHT (FLASHING)
-  FLASHING ARROW BOARD
-  DIRECTION OF TRAFFIC
-  REMOVE PAVEMENT MARKING (SEE GENERAL NOTES)
-  WORK AREA

GENERAL NOTES

FOR WORK ON ROADWAYS WITH SPEEDS GREATER THAN 45MPH, USE SDD 15D12.

THIS LANE CLOSURE DETAIL IS TYPICAL FOR CLOSING THE LEFT LANE. FOR A RIGHT LANE CLOSURE, REVERSE THE TRAFFIC CONTROL.

THIS DETAIL MAY BE USED FOR ROADWAYS WITH EITHER TWO OR THREE LANES IN EACH DIRECTION.

ALL SIGNS ARE 48"X48" UNLESS OTHERWISE NOTED. IF NECESSARY DUE TO SPACE CONSTRAINTS IN URBAN AREAS, 36"X 36" SIGNS MAY BE USED IF APPROVED BY REGIONAL TRAFFIC UNIT.

"WO" SIGN IS THE SAME AS "W" SIGN EXCEPT THE BACKGROUND IS ORANGE.

ANY SIGNS TEMPORARY OR EXISTING, WHICH CONFLICT WITH THE TRAFFIC CONTROL "IN USE" SHALL BE REMOVED OR COVERED AS NEEDED AND AS APPROVED BY THE ENGINEER. NO WARNING LIGHTS SHALL BE WORKING ON COVERED OR "DOWNED" SIGNS.

SIGNS THAT WILL BE IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS OR THAT WILL BE PLACED IN A CLOSED LANE MAY BE MOUNTED ON TEMPORARY SUPPORTS.

THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

THE SPACING BETWEEN TRAFFIC CONTROL SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND TO PROVIDE A MINIMUM OF 200 FEET (500' DESIRABLE) DISTANCE TO EXISTING SIGNS THAT WILL REMAIN IN PLACE

W20-1A, G20-1 AND G20-2A SIGNS ARE NOT REQUIRED IF THE LANE CLOSURE IS WITHIN A LARGER WORK ZONE WHERE THESE SIGNS ARE ALREADY PRESENT.

REMOVE PAVEMENT MARKINGS AND PLACE TEMPORARY PAVEMENT MARKING, REMOVABLE TAPE IF LANE CLOSURE IS TO BE IN PLACE FOR 4 OR MORE CONTINUOUS DAYS AND NIGHTS.

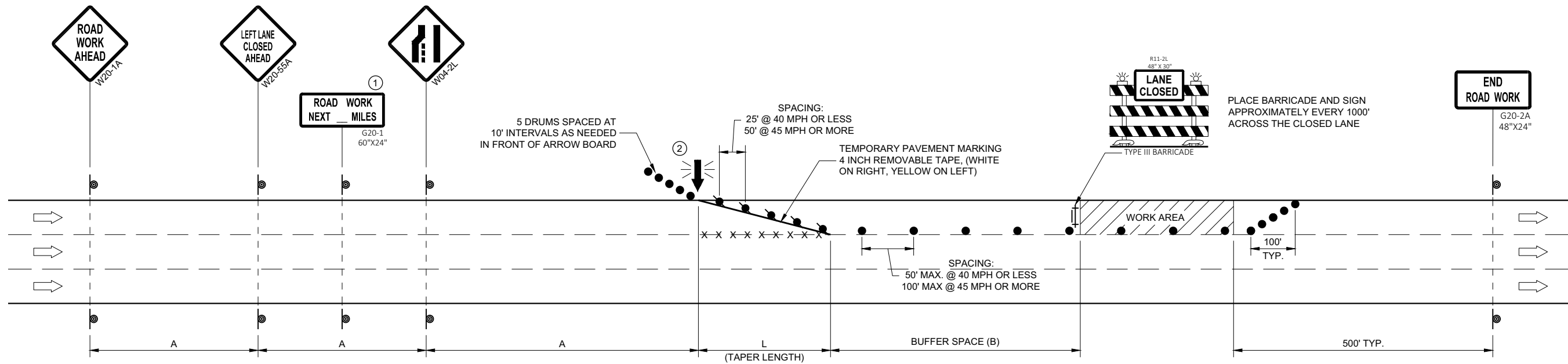
CONSIDER GEOMETRICS WHEN LOCATING SIGNS AND ARROW BOARDS SO THE APPROACHING DRIVER HAS A CLEAR VIEW OF THE ARROW BOARDS AND LANE CLOSURE DRUMS FOR A MINIMUM 1500 FEET IN FRONT OF DRUMS.

BARRICADES IN A CLOSED LANE THAT MUST BE MOVED FOR A WORK OPERATION SHALL BE IMMEDIATELY REESTABLISHED UPON COMPLETION OF THE OPERATION, OR FOR CONTINUING OPERATIONS, AT THE END OF EACH WORKING DAY.

CHANNELIZING DEVICES PLACED ADJACENT TO WORK AREA SHALL BE PULLED BACK FROM THE TRAVEL LANE WHEN WORK IS NOT IN PROGRESS.

WARNING LIGHTS ARE NOT REQUIRED IF THE LANE CLOSURE IS A DAYTIME ONLY OPERATION.

- ① OMIT G20-1 SIGNS IF LENGTH OF WORK AREA IS 2 MILES OR LESS.
- ② WHERE THE SHOULDER OR TERRACE HAS INSUFFICIENT SPACE TO PLACE THE ARROW BOARD AS SHOWN, PLACE THE ARROW BOARD AT THE END OF THE TAPER.



POSTED SPEED LIMIT PRIOR TO WORK STARTING (MPH)	ADVANCE WARNING SIGN SPACING (A) FEET	TAPER LENGTH (12 FT. LANE) (L) FEET	BUFFER SPACE (B) FEET
25	200'	125'	55'
30	200'	180'	85'
35	350'	245'	120'
40	350'	320'	170'
45	500'	540'	220'

TRAFFIC CONTROL, SINGLE LANE CLOSURE, DIVIDED NON-FREEWAY/EXPRESSWAY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
May 2020
DATE

/S/ Andrew Heidtke
STATEWIDE WORK ZONE TRAFFIC SAFETY ENGINEER

FHWA

GENERAL NOTES

THIS DETAIL IS TYPICAL FOR CLOSING THE RIGHT SHOULDER. FOR CLOSING THE LEFT SHOULDER, REVERSE THE TRAFFIC CONTROL.

THIS DETAIL MAY BE USED FOR DIVIDED ROADWAYS WITH ANY NUMBER OF TRAVEL LANES.

THE EXACT NUMBER, LOCATION AND SPACING OF ALL SIGNS AND DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

ALL SIGNS ARE 48" X 48" UNLESS OTHERWISE NOTED.

SIGN LAYOUTS SHALL BE IN ACCORDANCE WITH THE FHWA'S MANUAL OF STANDARD HIGHWAY SIGNS OR THE WISCONSIN STANDARD SIGN PLATES.

SIGNS THAT WILL BE IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS MAY BE MOUNTED ON PORTABLE SUPPORTS.

ANY SIGNS TEMPORARY OR EXISTING, WHICH CONFLICT WITH TRAFFIC CONTROL "IN USE" SHALL BE REMOVED OR COVERED AS NEEDED AND AS APPROVED BY THE ENGINEER.

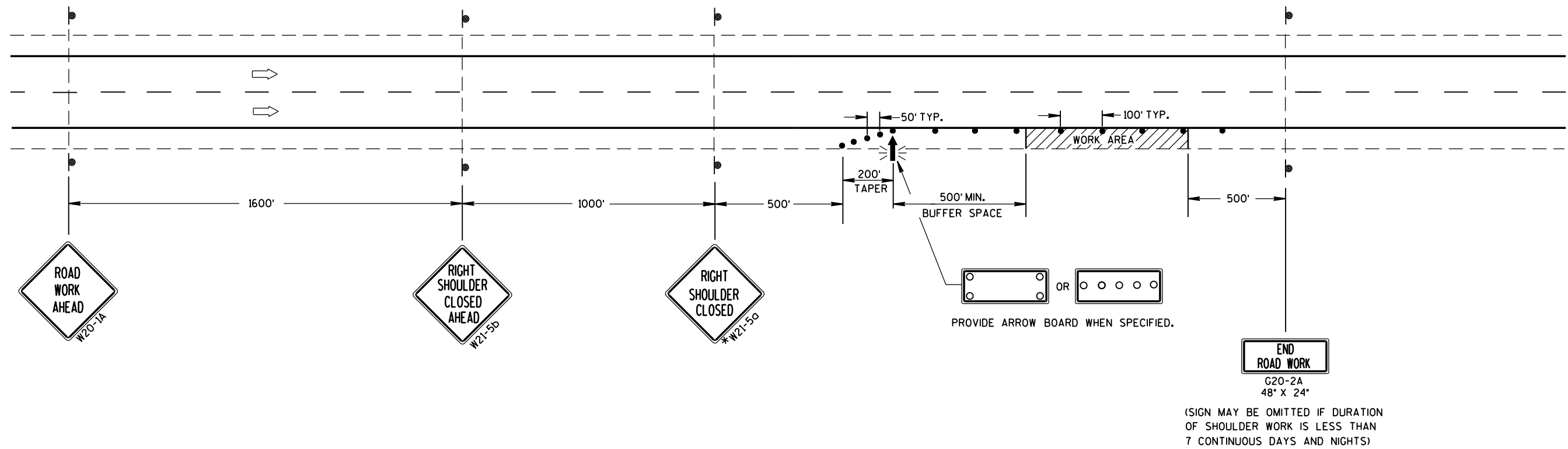
CHANNELIZING DEVICES PLACED ADJACENT TO THE WORK AREA SHALL BE PULLED BACK FROM THE TRAVEL LANE WHEN WORK IS NOT IN PROGRESS.

WHEN A RAMP INTERSECTS THE FACILITY ON WHICH THE WORK IS BEING PERFORMED, ADDITIONAL TRAFFIC CONTROLS SHALL BE PROVIDED AS SPECIFIED IN THE PLANS AND/OR THE SPECIAL PROVISIONS OR AS APPROVED BY THE ENGINEER.

*FOR SHORT DURATION SHOULDER WORK OF LESS THAN ONE HOUR, THE W21-50 SIGN MAY BE OMITTED.

LEGEND

- TRAFFIC CONTROL DRUM
- ⊙ SIGN ON PERMANENT SUPPORT
- ➡ DIRECTION OF TRAFFIC
- ⚡ FLASHING ARROW BOARD
- ▨ WORK AREA



TRAFFIC CONTROL SHOULDER CLOSURE ON DIVIDED ROADWAY, SPEEDS GREATER THAN 40 MPH	
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION	
APPROVED June 2016 DATE	/s/ Peter Amakobe Atepe STATEWIDE WORK ZONE TRAFFIC SAFETY ENGINEER
FHWA	





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S.D.D. 15 D 27-3

S.D.D. 15 D 27-3

LEGEND

-  SIGN ON PERMANENT SUPPORT
-  TRAFFIC CONTROL DRUM
-  DIRECTION OF TRAFFIC
-  WORK ZONE

GENERAL NOTES

ALL SIGNS ARE 48"X48" UNLESS OTHERWISE NOTED. IF NECESSARY DUE TO SPACE CONSTRAINTS IN URBAN AREAS, 36" X 36" SIGNS MAY BE USED IF APPROVED BY THE REGIONAL TRAFFIC UNIT.

"WO" SIGN IS THE SAME AS "W" SIGN EXCEPT THE BACKGROUND IS ORANGE.

ANY SIGNS TEMPORARY OR EXISTING, WHICH CONFLICT WITH THE TRAFFIC CONTROL "IN USE" SHALL BE REMOVED OR COVERED AS NEEDED AND AS APPROVED BY THE ENGINEER.

THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

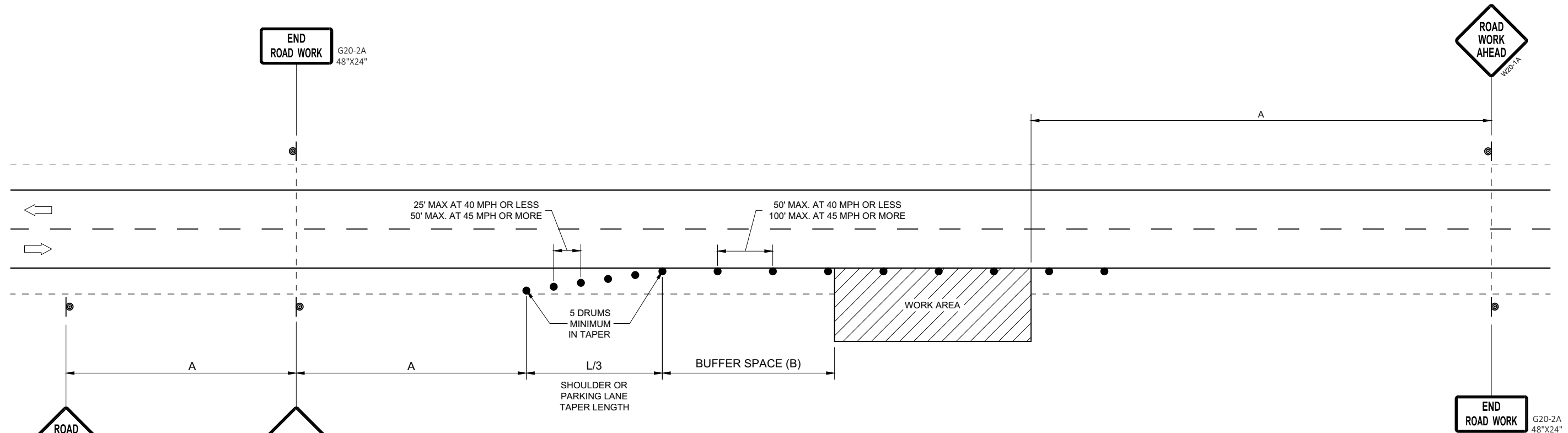
CHANNELIZING DEVICES PLACED ADJACENT TO WORK AREA SHALL BE PULLED BACK FROM THE TRAVEL LANE WHEN WORK IS NOT IN PROGRESS.

SIGNS THAT WILL BE IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS MAY BE MOUNTED ON PORTABLE SUPPORTS.

W20-1A AND G20-2A SIGNS ARE NOT REQUIRED IF THE WORK AREA IS WITHIN A LARGER WORK ZONE WHERE THESE SIGNS ARE ALREADY PRESENT. G20-2A SIGNS MAY ALSO BE OMITTED IF DURATION OF WORK IS LESS THAN 7 CONTINUOUS DAYS AND NIGHTS.

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OR
IF TRAFFIC CONTROL DEVICES
ENCROACH ONTO TRAVELED WAY, USE



POSTED SPEED LIMIT PRIOR TO WORK STARTING (MPH)	ADVANCE WARNING SIGN SPACING (A) FEET	SHOULDER TAPER L / 3 W, LATERAL OFFSET (FT)						BUFFER SPACE (B) FEET
		3	4	5	6	7	8	
25	200'	10	14	17	21	24	28	55
30	200'	15	20	25	30	35	40	85
35	350'	20	27	34	40	47	54	120
40	350'	26	35	44	53	62	70	170
45	500'	45	59	74	89	104	119	220
50	500'	50	66	83	99	116	132	280
55	500'	54	73	91	109	127	145	335'

TRAFFIC CONTROL, WORK ON SHOULDER OR PARKING LANE, UNDIVIDED ROADWAY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION







APPROVED
May 2020 DATE /S/ Andrew Heidtke
STATEWIDE WORK ZONE TRAFFIC SAFETY ENGINEER

FHWA

SDD 15D28 - 04

SDD 15D28 - 04

LEGEND

-  SIGN ON PERMANENT SUPPORT
-  TRAFFIC CONTROL DRUM
-  TYPE III BARRICADE WITH ATTACHED SIGN
-  DIRECTION OF TRAFFIC
-  WORK AREA
-  FLAGGER, EQUIPPED WITH STOP/SLOW PADDLE FASTENED ON SUPPORT STAFF

GENERAL NOTES

ALL SIGNS ARE 48"X48" BLACK ON ORANGE UNLESS OTHERWISE NOTED. IF NECESSARY DUE TO SPACE CONSTRAINTS, 36" X 36" SIGNS MAY BE USED IF APPROVED BY THE REGIONAL TRAFFIC UNIT.

"WO" SIGN IS THE SAME AS "W" SIGN EXCEPT THE BACKGROUND IS ORANGE

ANY SIGNS TEMPORARY OR EXISTING, WHICH CONFLICT WITH THE TRAFFIC CONTROL "IN USE" SHALL BE REMOVED OR COVERED AS NEEDED AND AS APPROVED BY THE ENGINEER.

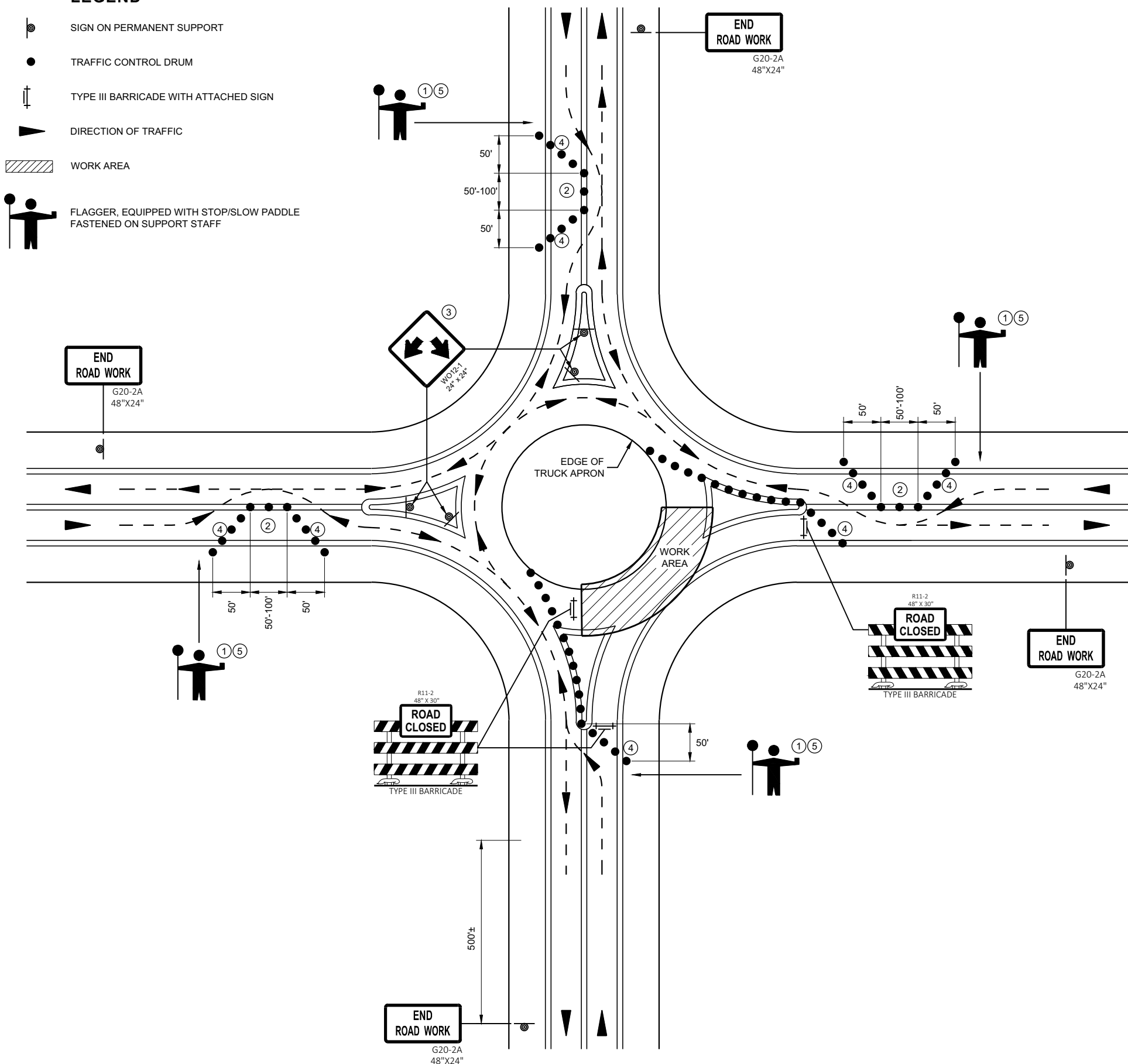
THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

ONLY ONE QUADRANT OF TRAFFIC SHALL BE RELEASED AT A TIME.

FLAGGERS SHALL CONTROL TRAFFIC ON ALL APPROACHES OF THE ONE-LANE ROUNDABOUT. ONE FLAGGER SHALL BE DESIGNATED LEAD FLAGGER.

NIGHT TIME WORK REQUIRES ADDITIONAL LIGHTING AT FLAGGER STATION(S).

- ① FLAGGERS SHALL BE IN DIRECT RADIO CONTACT AT ALL TIMES. THEY SHALL BE EQUIPPED WITH STOP/SLOW PADDLES FASTENED ON SUPPORT STAFFS. WHEN THE FLAGGING IS NOT IN EFFECT, COVER OR REMOVE ALL TEMPORARY TRAFFIC CONTROL SIGNS.
- ② ADJUST CHANNELIZING DEVICES TO ACCOMMODATE FOR TURNING RADIUS OF LARGE VEHICLES AS DIRECTED BY THE ENGINEER.
- ③ GUIDE SIGN WITH ROAD NAMES MAY BE USED IN LIEU OF THE DOUBLE ARROW (WO12-1) SIGN.
- ④ THE TWO-WAY TAPER SHOULD BE 50 FEET USING 5 EQUALLY SPACED DRUMS.
- ⑤ FOLLOW SDD 15C12 FOR FLAGGING AND ADVANCE WARNING.



RECOMMENDED REDUCED DRUM SPACING WITHIN ROUNDABOUT

MPH	DRUM SPACING (FT)
0-40	25
45-55	50

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SDD 15D37 - 03

SDD 15D37 - 03

TRAFFIC CONTROL, FLAGGING OPERATION, ROUNDABOUT









STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
May 2020 /S/ Andrew Heidtke
DATE STATEWIDE WORK ZONE TRAFFIC SAFETY ENGINEER

FHWA

GENERAL NOTES

LEGEND

-  TYPE III BARRICADE WITH ATTACHED SIGN
-  SIGN ON PERMANENT SUPPORT
-  TRAFFIC CONTROL DRUM
-  TRAFFIC CONTROL DRUM WITH TYPE "C" STEADY BURN LIGHT
-  TYPE "A" WARNING LIGHT (FLASHING)
-  DIRECTION OF TRAFFIC
-  WORK AREA
-  REMOVING PAVEMENT MARKING (SEE GENERAL NOTES)

THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

THE SPACING BETWEEN SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND TO PROVIDE A MINIMUM OF 200 FEET, (500 FEET DESIREABLE) DISTANCE TO EXISTING SIGNS.

THIS LANE CLOSURE IS TYPICAL FOR SHIFTING RIGHT LANE - REVERSE FOR SHIFTING LEFT LANE.

ALL SIGNS ARE 48"x48" UNLESS OTHERWISE NOTED.

"WO" IS THE SAME AS "W" EXCEPT THE BACKGROUND IS ORANGE.

ANY SIGNS TEMPORARY OR EXISTING, WHICH CONFLICT WITH TRAFFIC CONTROL "IN USE" SHALL BE REMOVED OR COVERED AS NEEDED AND AS APPROVED BY THE ENGINEER. NO WARNING LIGHTS SHALL BE WORKING ON "COVERED" OR "DOWNED" SIGNS.

CONSIDER GEOMETRICS WHEN LOCATING SIGNS AND ARROW BOARD SO THE DRIVER HAS A CLEAR VIEW OF THE ARROW BOARD AND LANE CLOSURE DRUMS FOR A MINIMUM 1500 FEET IN FRONT OF DRUMS.

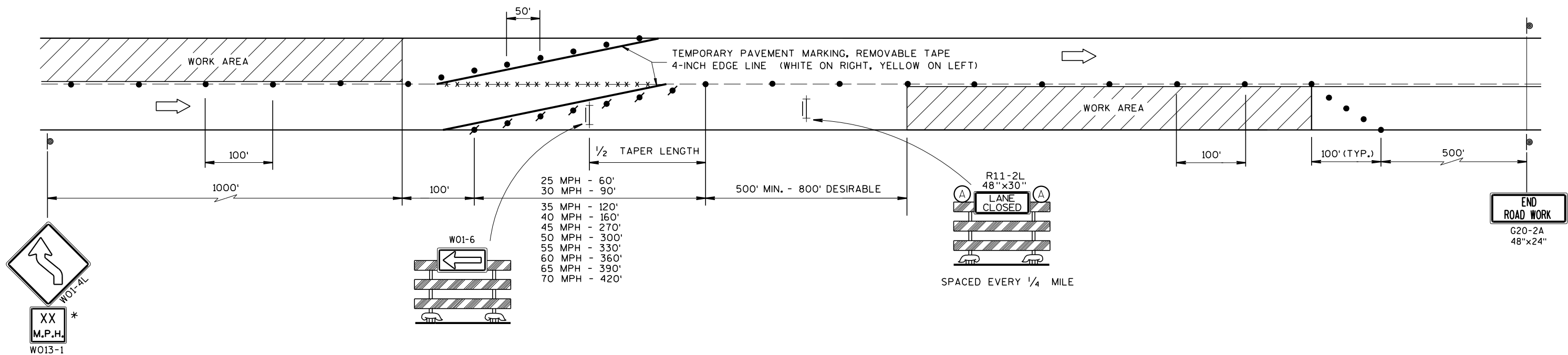
FOR A LANE CLOSURE THAT IS IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS, THE ADVANCED WARNING SIGNS MAY BE MOUNTED ON PORTABLE SUPPORTS.

REMOVE PAVEMENT MARKINGS IF LANE CLOSURE IS TO BE IN PLACE FOR LONGER THAN 4 OR MORE DAYS AND NIGHTS.

WARNING LIGHTS ARE NOT REQUIRED IF THE LANE CLOSURE IS A DAYTIME ONLY OPERATION.

IF THE HORIZONTAL ALIGNMENT IS SUCH THAT A CURVE MAY REQUIRE ADDITIONAL DELINEATION, THE DEVICE SPACING MAY BE DECREASED TO 50 FEET.

ADJUSTMENTS IN BUFFER SPACE NEED TO BE INCORPORATED WHEN THE LANE CLOSURE OCCURS NEAR AN INTERCHANGE EXIT OR ENTRANCE RAMP. THE LANE CLOSURE MUST TAKE PLACE FAR ENOUGH IN ADVANCE OF AN EXIT OR ENTRANCE RAMP TO STILL ALLOW FOR ADEQUATE BUFFER SPACE. THE MINIMUM LENGTH OF THE BUFFER SPACE BEFORE AN EXIT RAMP SHOULD BE 1/2 THE LENGTH OF THE TRANSITION AREA. THE ENTRANCE RAMP SHOULD BE FOLLOWED BY THE ORIGINAL BUFFER SPACE LENGTH OF 800 FEET DESIRABLE PRIOR TO ANOTHER TRAFFIC CONTROL CHANGE SUCH AS A CROSSOVER MANEUVER.



LANE SHIFT MULTI-LANE DIVIDED OR ONE WAY ROAD

**TRAFFIC CONTROL,
LANE SHIFT, MULTI-LANE
DIVIDED OR ONE WAY ROAD**

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
March 2018 /S/ Andrew Heidtke
DATE WORK ZONE ENGINEER

FHWA

6









6

S.D.D. 15 D 40-1

S.D.D. 15 D 40-1

* USE ONLY IF DESIGN SPEED IS 10 MPH BELOW POSTED SPEED

LEGEND

-  TYPE III BARRICADE WITH ATTACHED SIGN
-  SIGN ON PERMANENT SUPPORT
-  TRAFFIC CONTROL DRUM
-  TRAFFIC CONTROL DRUM WITH TYPE "C" STEADY BURN LIGHT
-  TYPE "A" WARNING LIGHT (FLASHING)
-  DIRECTION OF TRAFFIC
-  WORK AREA
-  REMOVING PAVEMENT MARKING (SEE GENERAL NOTES)

GENERAL NOTES

THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

THE SPACING BETWEEN SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND TO PROVIDE A MINIMUM OF 200 FEET, (500 FEET DESIREABLE) DISTANCE TO EXISTING SIGNS.

THIS LANE CLOSURE IS TYPICAL FOR LANE SHIFT RIGHT - REVERSE FOR SHIFTING LEFT.

ALL SIGNS ARE 48"x48" UNLESS OTHERWISE NOTED.

"WO" IS THE SAME AS "W" EXCEPT THE BACKGROUND IS ORANGE.

ANY SIGNS TEMPORARY OR EXISTING, WHICH CONFLICT WITH TRAFFIC CONTROL "IN USE" SHALL BE REMOVED OR COVERED AS NEEDED AND AS APPROVED BY THE ENGINEER. NO WARNING LIGHTS SHALL BE WORKING ON ANY "COVERED" OR "DOWNED" SIGNS.

CONSIDER GEOMETRICS WHEN LOCATING SIGNS AND ARROW BOARDS SO THE DRIVER HAS A CLEAR VIEW OF THE ARROW BOARD AND LANE CLOSURE DRUMS FOR A MINIMUM 1500 FEET IN FRONT OF DRUMS.

FOR A LANE CLOSURE THAT IS IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS, THE ADVANCED WARNING SIGNS MAY BE MOUNTED ON PORTABLE SUPPORTS.

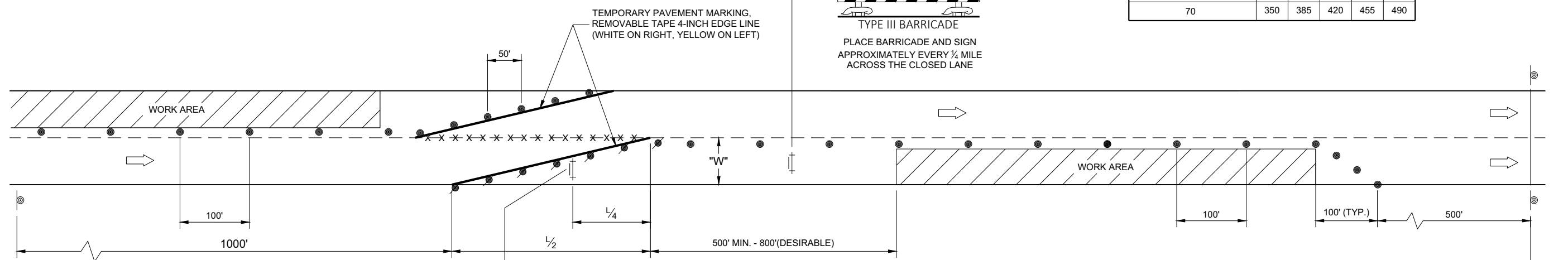
REMOVE PAVEMENT MARKINGS IF LANE CLOSURE IS TO BE IN PLACE FOR LONGER THAN 4 OR MORE DAYS AND NIGHTS.

WARNING LIGHTS ARE NOT REQUIRED IF THE LANE CLOSURE IS A DAYTIME ONLY OPERATION.

IF THE HORIZONTAL ALIGNMENT IS SUCH THAT A CURVE MAY REQUIRE ADDITIONAL DELINEATION, THE DEVICE SPACING MAY BE DECREASED TO 50 FEET.

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POSTED SPEED LIMIT PRIOR TO WORK STARTING (MPH)	SHIFTING TAPER 1/2 W, LATERAL OFFSET (FT)				
	10	11	12	13	14
50	250	275	300	325	350
55	275	303	330	358	385
60	300	330	360	390	420
65	325	358	390	423	455
70	350	385	420	455	490

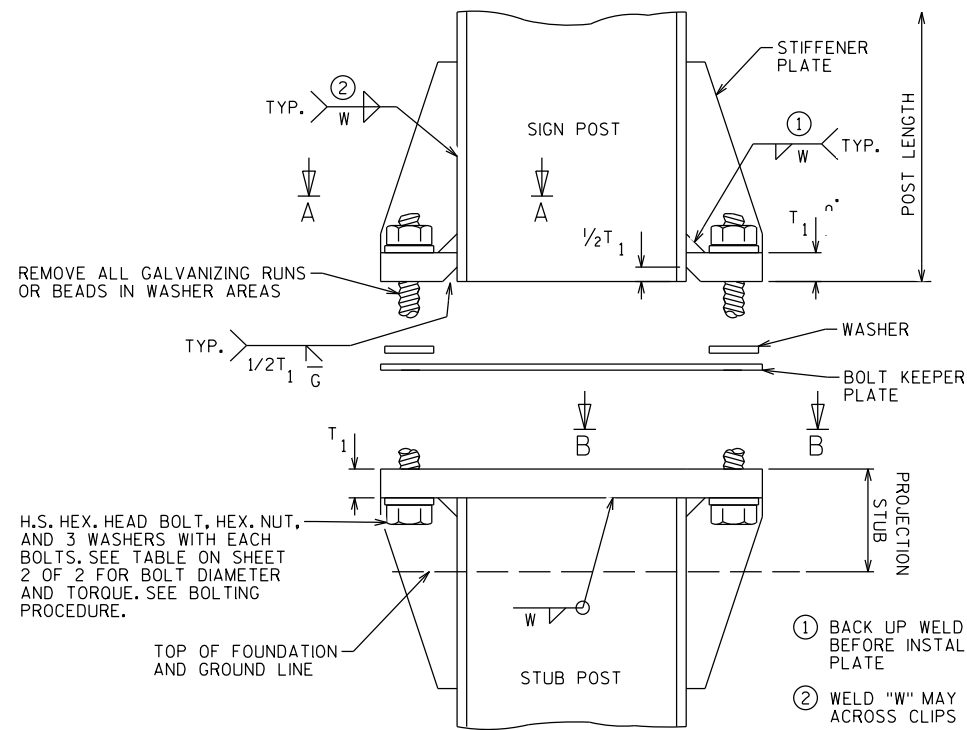


* USE ONLY IF DESIGN SPEED IS 10 MPH BELOW POSTED SPEED

TRAFFIC CONTROL, FULL LANE SHIFT, MULTI-LANE DIVIDED 50 MPH AND OVER

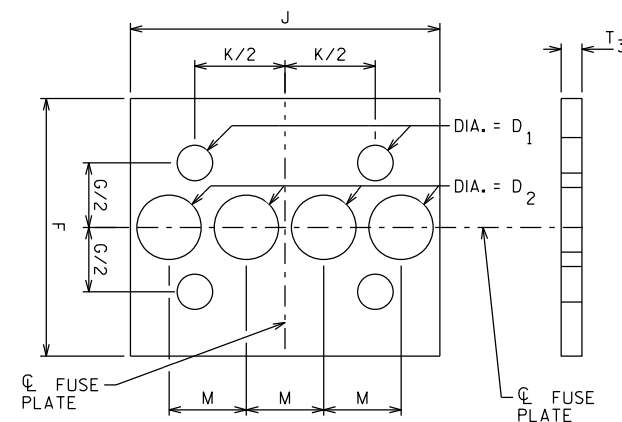
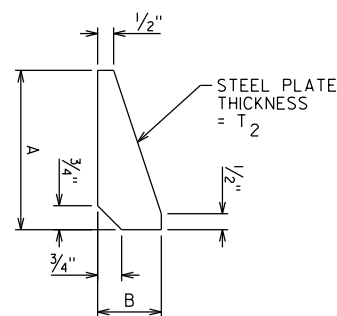
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
February 2021 /S/ Andrew Heidtke
DATE WORK ZONE ENGINEER



SIGN POST & STUB POST ELEVATION

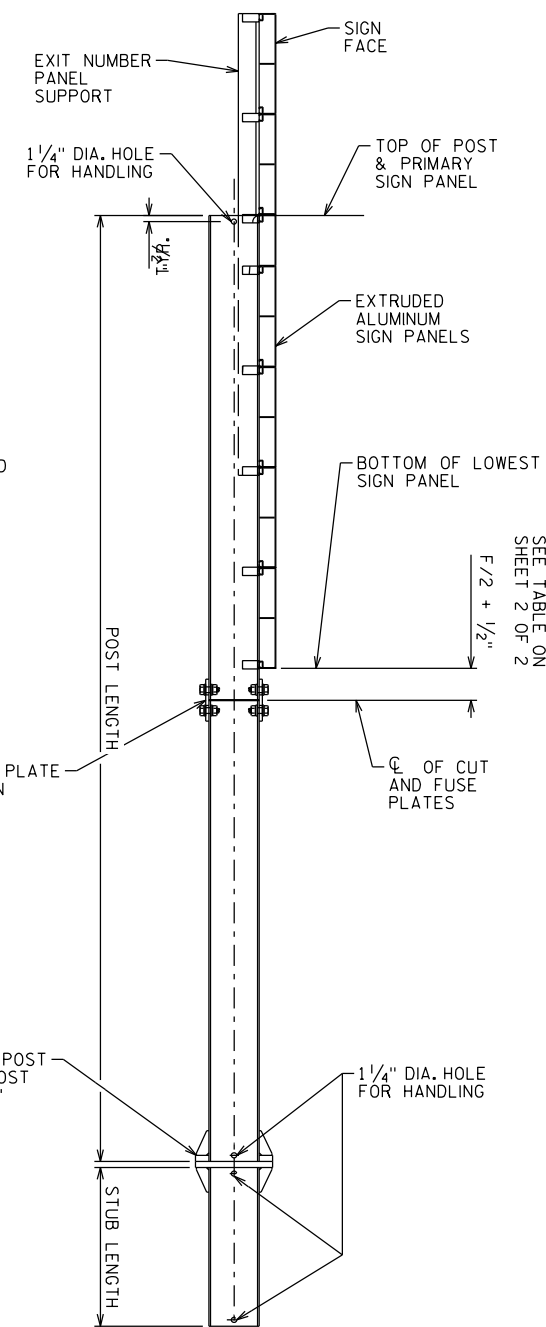
STIFFENER PLATE DETAIL
(REFER TO TABLE ON SHEET 2 OF 2 FOR DIMENSIONS)



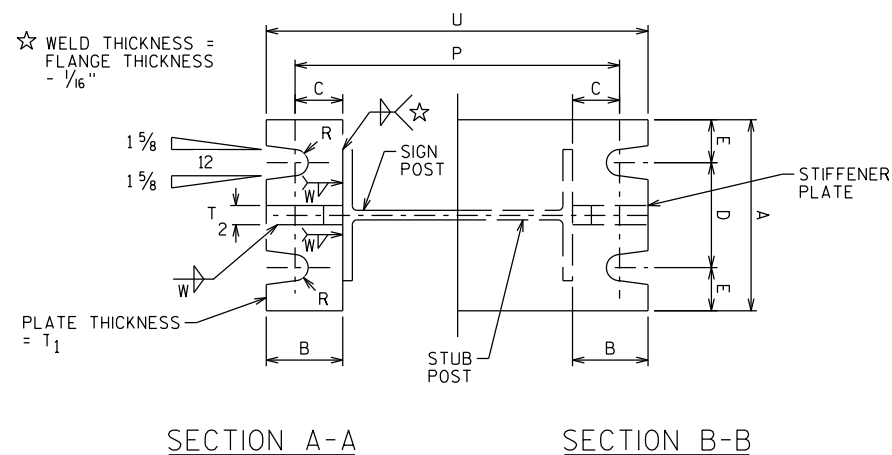
PERFORATED FUSE PLATE DETAIL

USE H.S. HEX HEAD BOLTS, HEX HEAD NUT AND FLAT WASHER UNDER NUT. INSTALL BOLTS PER THE WISCONSIN DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATION SECTION 506.3.12.3.

ALL HOLES SHALL BE DRILLED, SUB-PUNCHED AND REAMED. ALL PLATE CUTS SHALL PREFERABLY BE SAW CUTS. HOWEVER, FLAME CUTTING WILL BE PERMITTED PROVIDED ALL EDGES ARE GROUND. METAL PROJECTING BEYOND THE PLANE OF THE PLATE FACE WILL NOT BE PERMITTED. STEEL FUSE PLATES SHALL CONFORM TO THE REQUIREMENTS OF ASTM A36, ASTM A572 GRADE 50 OR ASTM A588 MAY BE SUBSTITUTED FOR A36 AT THE OPTION OF THE FABRICATOR. MILL TEST REPORTS SHALL BE SUBMITTED FOR FUSE PLATES. STEEL USED SHALL HAVE AN ULTIMATE TENSILE STRENGTH NOT TO EXCEED 80 KSI.

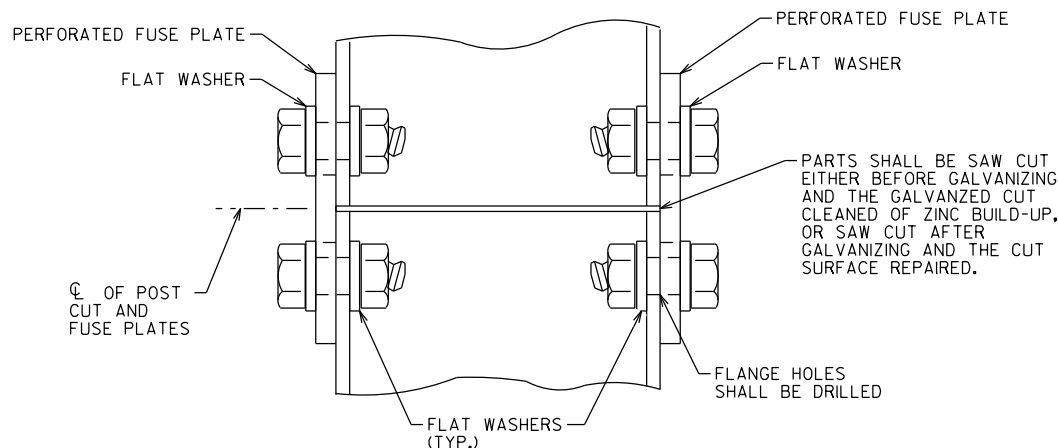


POST DETAIL

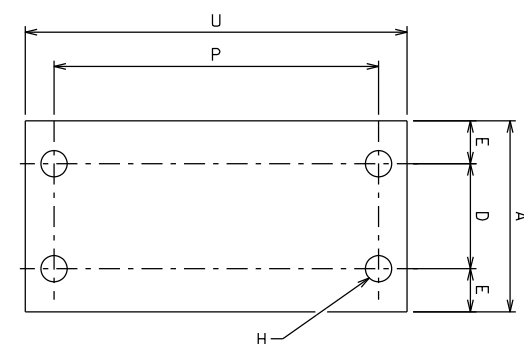


SECTION A-A

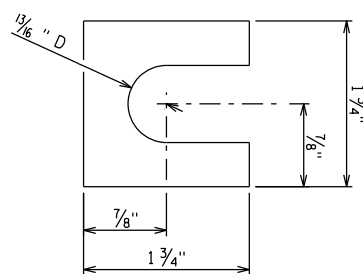
SECTION B-B



FUSE PLATE CONNECTION DETAIL



BOLT KEEPER PLATE DETAIL
30 GA GALVANIZED SHEET STEEL

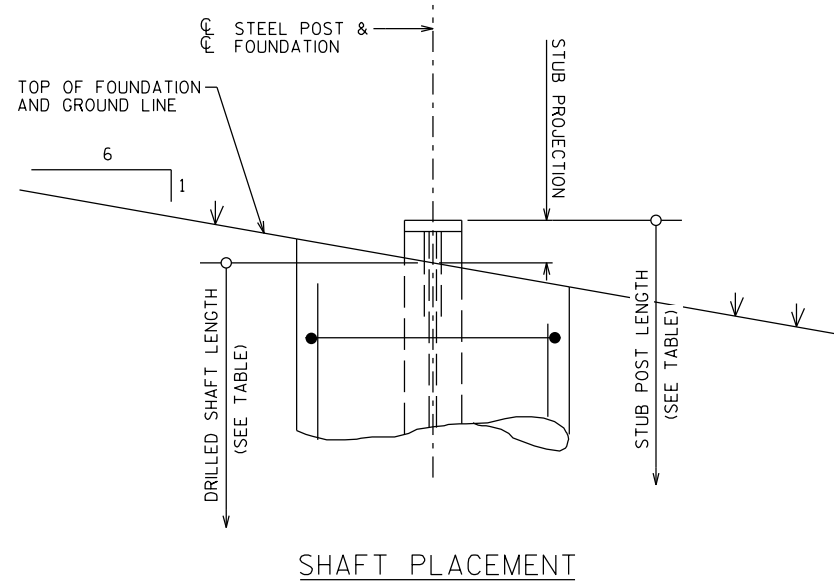
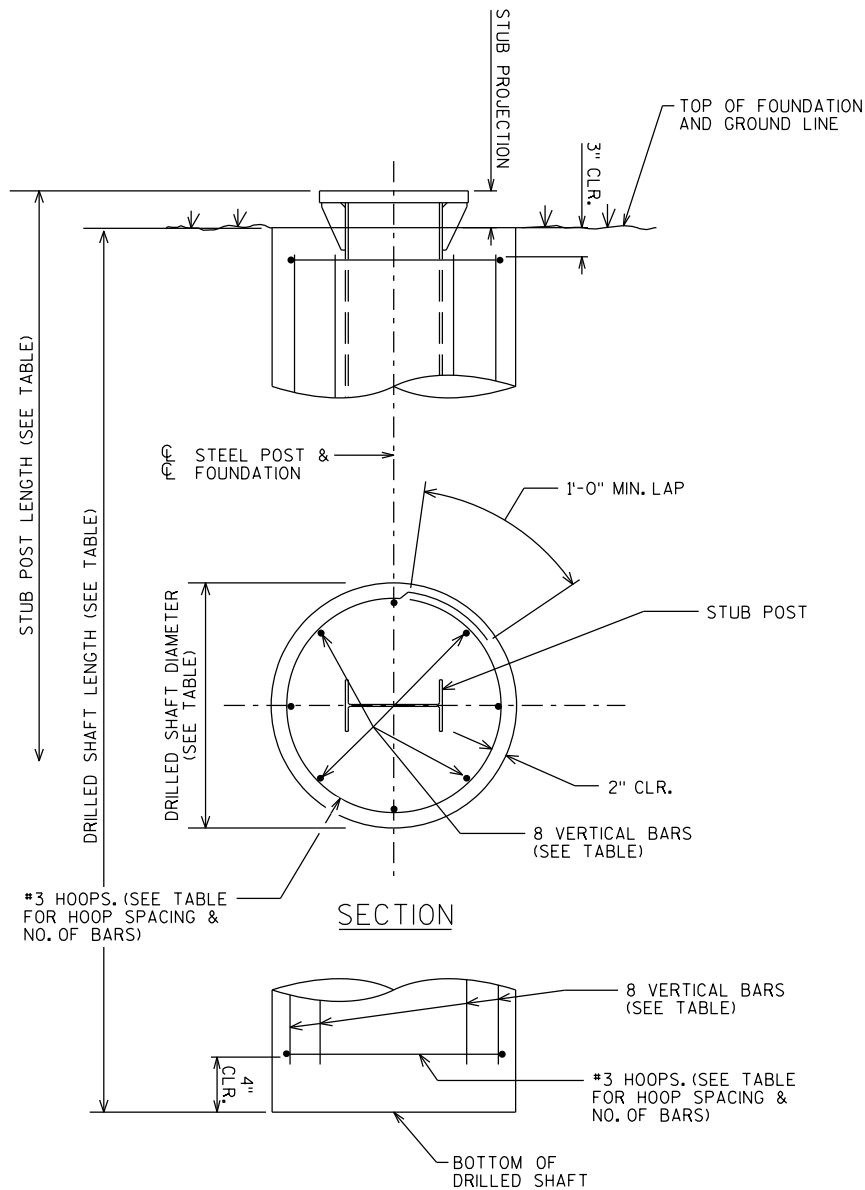


SHIM DETAIL

BOLTING PROCEDURE FOR BASE CONNECTION

1. ASSEMBLE SIGN POST, BOLT KEEPER PLATE, AND STUB POST WITH BOLTS AND THREE FLAT WASHERS PER BOLT AS SHOWN.
2. SHIM AS REQUIRED TO PLUMB POST.
3. PRIOR TO BOLT TIGHTENING, LUBRICATE BASE CONNECTION BOLTS WITH BEESWAX OR OTHER HIGH-WAX LUBRICANT.
4. TIGHTEN ALL BOLTS THE MAXIMUM POSSIBLE WITH A 12" OR 15" WRENCH TO BED WASHERS & SHIMS AND TO CLEAN BOLT THREADS.
5. LOOSEN EACH BOLT IN TURN AND RETIGHTEN IN A SYSTEMATIC ORDER TO THE PERSCRIBED TORQUE. (SEE TABLE FOR PERSCRIBED TORQUE). DO NOT OVER-TIGHTEN.
6. BURR THREADS AT JUNCTION WITH NUT USING A CENTER PUNCH TO PREVENT NUT LOOSENING.

NO.	DATE	REVISION	BY
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION STRUCTURES DESIGN SECTION			
STRUCTURE BTO TYPE I SIGNS			
		DRAWN BY	PLANS CK'D.
CONNECTION & FOUNDATION DETAILS 1 OF 2			SHEET A3-120



FOUNDATION DATA TABLE

POST SHAPE	STUB LENGTH	STUB PROJECTION	DRILLED SHAFT DIAMETER	DRILLED SHAFT LENGTH	VERTICAL BARS		HOOPS		CONCRETE VOLUME	TOTAL REINF. WEIGHT
					SIZE	LENGTH	MAX SPA.	NO.		
W6X15	2'-6"	3"	24"	6'-6"	#5	5'-11"	10"	9	0.8 CY	71 LB
W8X18	2'-6"	3"	24"	7'-6"	#6	6'-11"	12"	8	0.9 CY	102 LB
W8X21	3'-0"	2 1/2"	24"	8'-0"	#6	7'-5"	12"	9	1.0 CY	110 LB
W10X22	3'-0"	2 1/2"	24"	8'-6"	#7	7'-11"	12"	9	1.0 CY	151 LB
W12X26	3'-0"	2 1/2"	24"	10'-0"	#7	9'-5"	12"	11	1.2 CY	180 LB

◆ QUANTITIES SHOWN ARE FOR ONE DRILLED SHAFT

BASE CONNECTION & FUSE PLATE DATA TABLE

POST SHAPE	WEIGHT PER FOOT	BOLT SIZE & TORQUE	BASE CONNECTION DATA										BOLT KEEPER PLATE DATA		PERFORATED FUSE PLATE DATA										BOLT LENGTH	V
			A	B	C	D	E	T1	T2	W	R	P	U	F	G	J	K	M	D1	D2	T3	BOLT DIA.	WGT. EA. LBS			
W6X15	15 LB	5/8" DIA. X 4"	5"	2"	1/4"	2 3/4"	1/8"	1/4"	1/2"	1/4"	1/32"	8 1/2"	10"	5"	2 1/2"	6"	3 1/2"	1 1/2"	1/16"	1/4"	3/8"	5/8"	2.4	2	73.0 LB	
W8X18	18 LB	3/4" DIA. X 4"	5"	2"	1/4"	2 3/4"	1/8"	1/4"	1/2"	1/4"	1/32"	10 5/8"	12 1/8"	5"	2 1/2"	5 1/4"	2 3/4"	1 1/4"	1/16"	1/16"	3/8"	5/8"	2.0	2	83.0 LB	
W8X21	21 LB	3/4" DIA. X 4 3/4"	6"	2 1/4"	1 3/8"	3 1/2"	1/4"	1/2"	3/4"	5/16"	1/32"	11"	12 3/4"	5 1/2"	2 1/2"	5 1/4"	2 3/4"	1 1/4"	1/16"	1"	1/2"	3/4"	3.1	2 1/4"	124.0 LB	
W10X22	22 LB	3/4" DIA. X 4 3/4"	6"	2 1/4"	1 3/8"	3 1/2"	1/4"	1/2"	3/4"	5/16"	1/32"	12 7/8"	14 5/8"	6"	3"	5 3/4"	2 3/4"	1 3/8"	1/16"	1/8"	1/2"	3/4"	3.9	2 1/4"	134.0 LB	
W12X26	26 LB	3/4" DIA. X 4 3/4"	6"	2 1/4"	1 3/8"	3 1/2"	1/4"	1/2"	3/4"	5/16"	1/32"	15"	16 3/4"	6"	3"	6 1/2"	3 1/2"	1 5/8"	1/16"	1 5/16"	1/2"	3/4"	4.5	2 1/4"	152.0 LB	

◆ TOTAL STRUCTURAL CARBON STEEL WEIGHT FOR ONE POST = V + (POST LENGTH X POST WEIGHT PER FOOT)

"V" INCLUDES STUB POST, BASE PLATES, STIFFENER PLATES, PERFORATED FUSE PLATES, BOLTS, NUTS, AND WASHERS.

GENERAL NOTES

DRAWINGS SHALL NOT BE SCALED

MATERIALS SHALL CONFORM TO THE WISCONSIN DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS SECTION 506, UNLESS NOTED OTHERWISE.

FABRICATION SHALL CONFORM TO THE WISCONSIN DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS SECTION 506.

ALL POST, POST STUBS & ATTACHMENTS SHALL BE ASTM A709 GRADE 50, GALVANIZED IN ACCORDANCE WITH ASTM A123.

THE POST, BASE PLATES, UPPER SIX INCHES OF STUB POST, FLANGE SPLICE PLATE AND FUSE PLATE SHALL BE GALVANIZED AFTER FABRICATION.

H.S. BOLTS, WASHERS, & NUTS SHALL BE A325 GALVANIZED.

FOUNDATION MATERIAL PROPERTIES

CONCRETE MASONRY F'C = 3,500 P.S.I.

BAR STEEL REINFORCEMENT (UNCOATED), GRADE 60 F_y = 60,000 P.S.I.

DESIGN DATA

DESIGN CONFORMS TO AASHTO LRFD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINAIRES, AND TRAFFIC SIGNALS 1ST EDITION 2015 (WITH 2017 & 2018 INTERIM REVISIONS).

- DEAD LOADS (DL):**
- STEEL POST SELF WEIGHT
 - SIGN PANEL WEIGHT = 3 PSF
- WIND LOADS (WL):**
- WIND LOADS WERE APPLIED TO THE PROJECTED AREAS OF THE SIGN PANELS AND THE STEEL SIGN POSTS.
- BASIC WIND SPEED = 76 MPH
 - MEAN RECURRENT INTERVAL (MRI) = 10 YEARS
 - HEIGHT & EXPOSURE FACTOR = 1.00
 - DIRECTIONALITY FACTOR = 0.85
 - GUST EFFECT FACTOR = 1.14
- WIND LOAD CASES:**
- WL CASE 1: 1.0 X NORMAL WIND
 - WL CASE 2: 1.0 X TRANSVERSE WIND
 - WL CASE 3: 0.75 X NORMAL WIND + 0.75 X TRANSVERSE WIND

LOAD COMBINATIONS:

LOAD COMBINATION	TYPE	DL FACTOR	WL FACTOR
STRENGTH I	GRAVITY	1.25	-
EXTREME I	WIND	1.10	1.0
		0.9	1.0
SERVICE I	DEFLECTION	1.0	1.0

FOUNDATION DESIGN DATA

THE FOUNDATION DESIGN ASSUMED COHESIONLESS SOILS (LOOSE SAND) ABOVE THE WATER TABLE WITH THE FOLLOWING PROPERTIES:

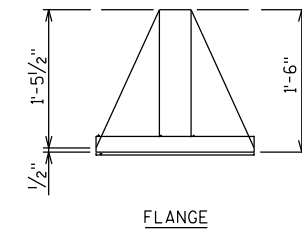
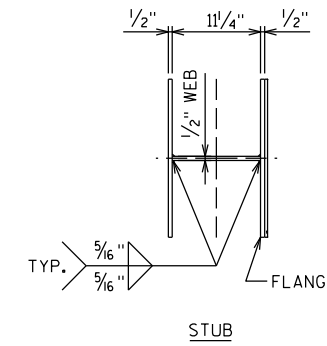
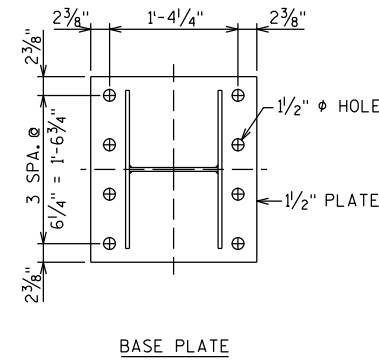
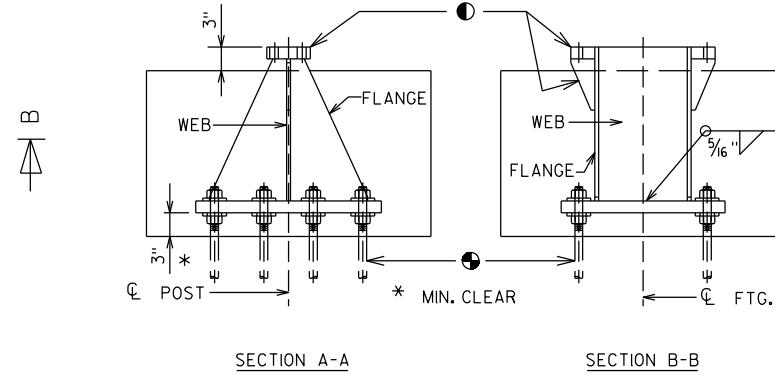
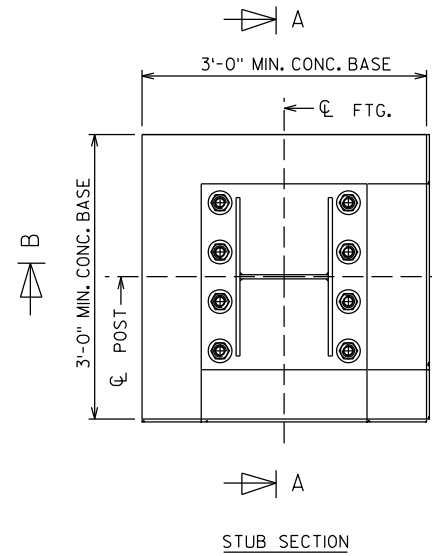
- SOIL UNIT WEIGHT = 115 PCF
- ANGLE OF INTERNAL FRICTION = 24 DEGREES
- SOIL MODULUS PARAMETER = 25 LB/IN³

NO.	DATE	REVISION	BY
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION STRUCTURES DESIGN SECTION			
STRUCTURE BTO TYPE I SIGNS			
DRAWN BY		PLANS CK'D.	
CONNECTION & FOUNDATION DETAILS 2 OF 2		SHEET A3-1.20	

7

7

STUB AND ADHESIVE ANCHOR DETAILS



- SEE BASE CONNECTION DETAILS ON "CONNECTIONS & FOUNDATION DETAILS" SHEETS.
- ADHESIVE ANCHORS 1/4"-INCHES. ALLOWABLE PULL OUT CAPACITY = 15 KIPS. EMBED 1'-3" INTO ROCK.

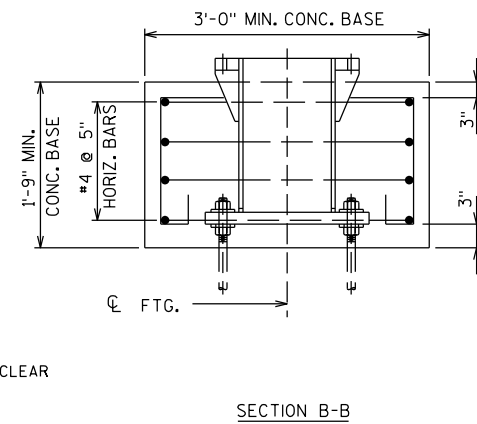
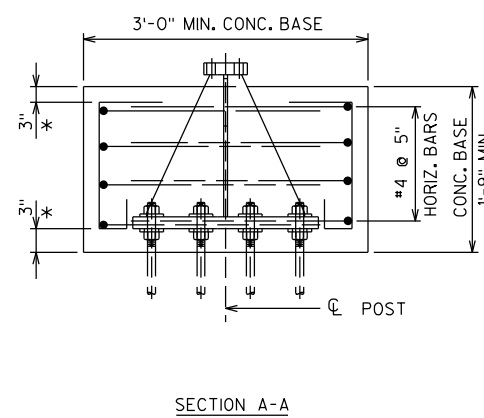
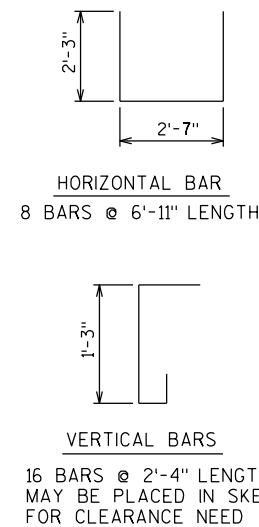
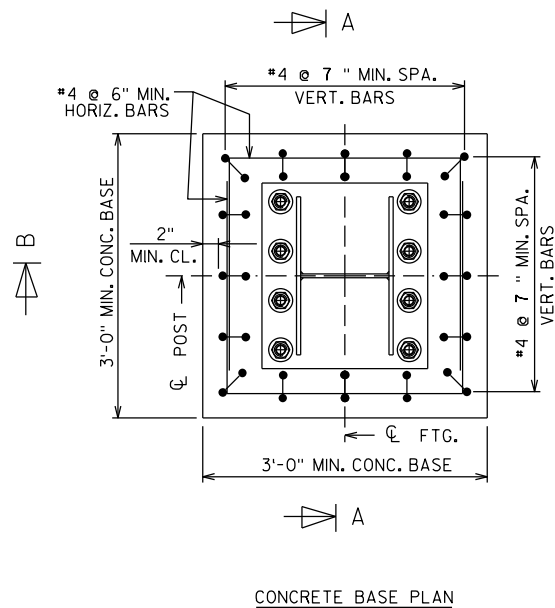
GENERAL NOTES:

QUANTITIES PER BASE:
 REINFORCING STEEL = 62 LB
 CONCRETE = 0.6 CY
 STRUCTURAL STEEL = 335 LB

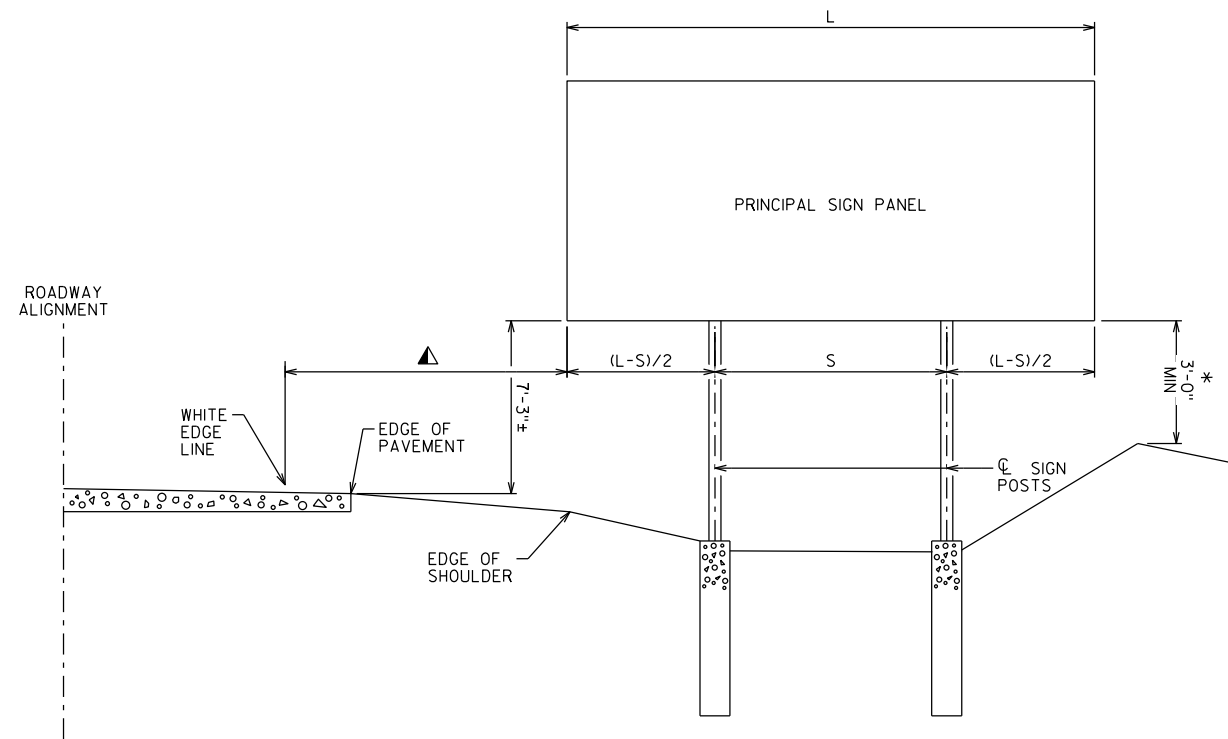
ALL MATERIALS, EXCEPT FOR ANCHOR ROD, NUTS, AND WASHERS, SHALL BE ASTM A709 GRADE 50. ALL MATERIALS TO BE GALVANIZED AFTER FABRICATION.

IF ROCK IS ENCOUNTERED PRIOR TO REACHING THE MINIMUM DRILLED SHAFT EMBEDMENT DEPTH DEFINED ON THE FOUNDATION DATA TABLE OF THE "CONNECTIONS & FOUNDATION DETAILS 2 OF 2" SHEET, THE CONTRACTOR SHALL INSTALL A TEST ADHESIVE ANCHOR AND DETERMINE THE PULL-OUT CAPACITY. IF THE FIELD TEST RESULTS IN A PULL-OUT CAPACITY GREATER THAN OR EQUAL TO 15 KIPS, THE CONTRACTOR MAY INSTALL THE ALTERNATE CONCRETE BASE AND BREAK-WAY STUB PER THE DETAILS ON THIS SHEET.

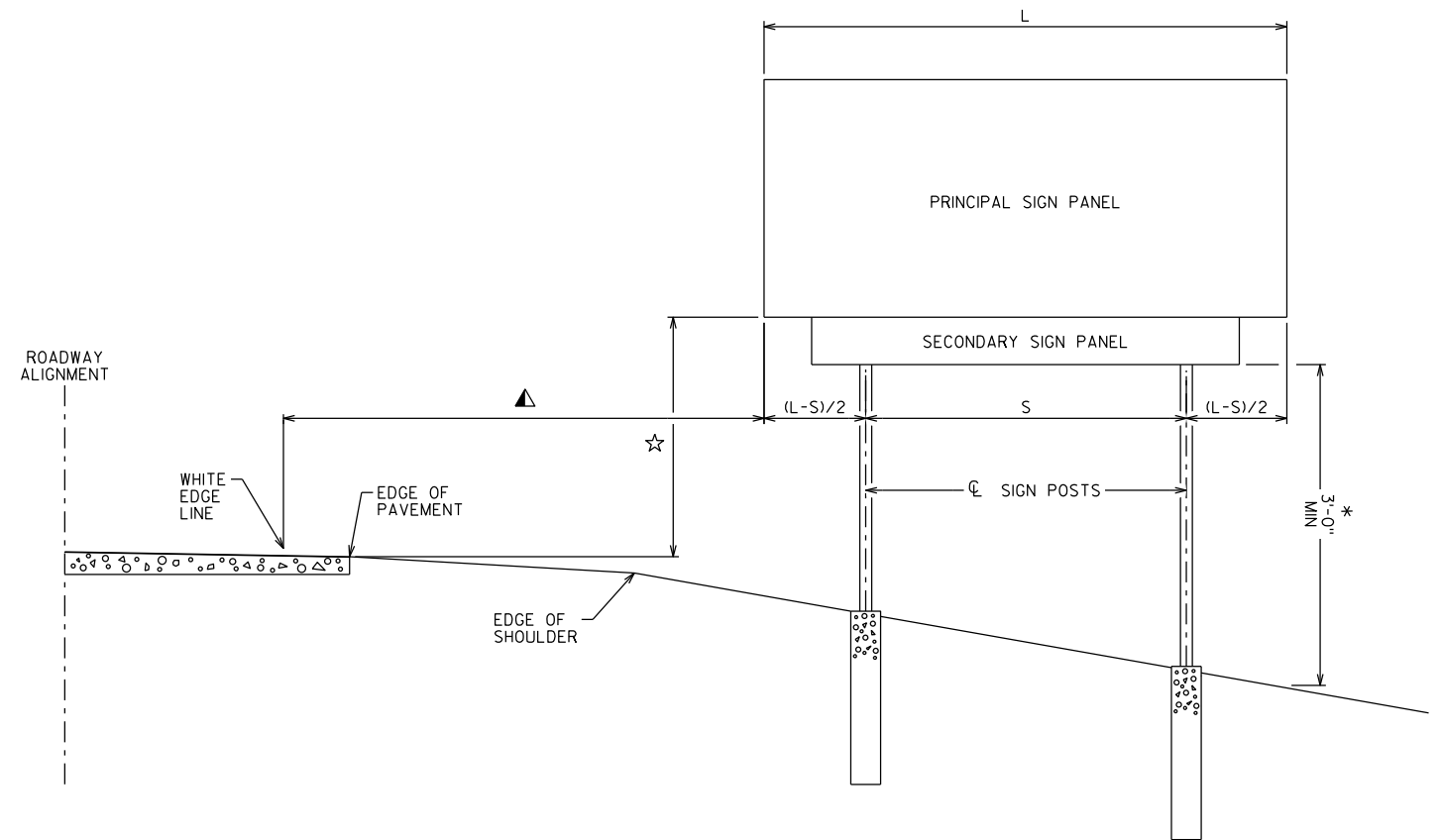
CONCRETE BASE DETAILS



NO.	DATE	REVISION	BY
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION STRUCTURES DESIGN SECTION			
STRUCTURE BTO TYPE I SIGNS			
DRAWN BY		PLANS CK'D.	
ALTERNATE BREAK-AWAY BASE ON ROCK			SHEET A3-1M.2



INSTALLATION WITHOUT SECONDARY SIGN



INSTALLATION WITH SECONDARY SIGN

TYPE 1 SIGN INSTALLATION NOTES:

FOR A 2-POST INSTALLATION, "S" EQUALS $3L/5$, BUT SHALL NOT BE LESS THAN 6'-0".

FOR A 3-POST INSTALLATION, "S" EQUALS $5L/7$, BUT SHALL NOT BE LESS THAN 12'-0". THE SPACING BETWEEN ANY TWO POSTS SHALL NOT BE LESS THAN 6'-0".

▲ UNLESS NOTED IN THE PLANS, THE SIGN OFFSET DISTANCE SHALL BE A MINIMUM OF 17'-6" FROM THE WHITE EDGE LINE, DESIRABLE 30'-0".

THE ± TOLERANCE SHOWN ON THIS SHEETS IS 3".

THE VERTICAL SIGN HEIGHT CLEARANCES SHOWN ON THIS SHEET ARE MEASURED FROM THE BOTTOM OF THE SIGN PANEL TO THE NEAR EDGE OF PAVEMENT.

☆ THE VERTICAL CLEARANCE SHALL BE 8'-3"± WHEN THE SECONDARY SIGN HEIGHT IS 3'-0" OR LESS, FOR SECONDARY SIGN HEIGHTS LARGER THAN 3'-0", THE VERTICAL CLEARANCE TO THE BOTTOM OF THE SECONDARY SIGN PANEL SHALL BE 5'-3"±.

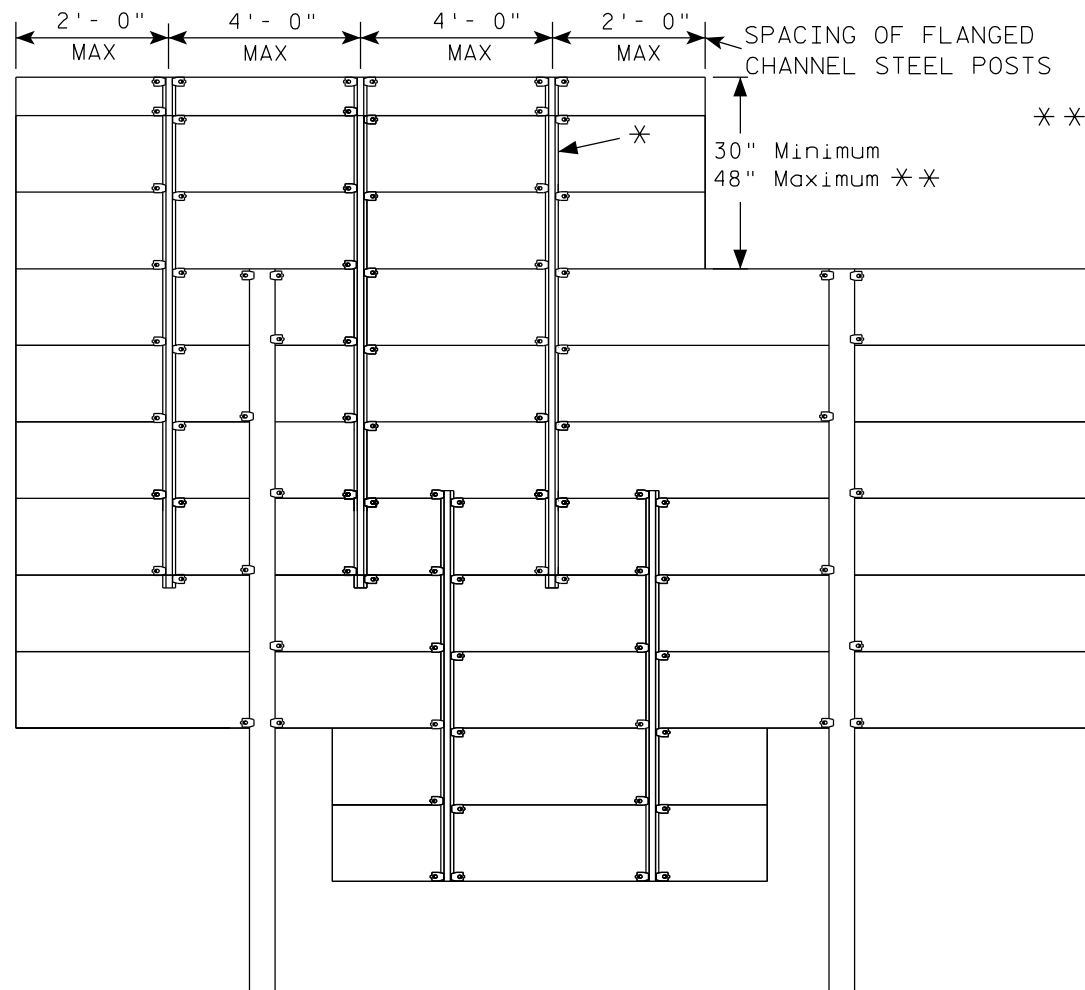
* THE VERTICAL SIGN GROUND CLEARANCE ON RIGHT END OF SIGN SHALL BE A MINIMUM OF 3'-0"±.

POST LENGTHS SHOWN IN THE MISCELLANEOUS QUANTITIES ARE ESTIMATED LENGTHS. THE CONTRACTOR SHALL VERIFY POST LENGTHS AT THE TIME OF FINAL GRADING.

REFER TO THE TRAFFIC ENGINEERING OPERATIONS AND SAFETY MANUAL FOR FURTHER GUIDANCE ON MINIMUM VERTICAL CLEARANCE REQUIREMENTS.

NO.	DATE	REVISION	BY
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION STRUCTURES DESIGN SECTION			
STRUCTURE BTO TYPE I SIGNS			
DRAWN BY		PLANS CK'D.	
TYPICAL TYPE I SIGN INSTALLATION			SHEET A4-1.10

GROUND MOUNTED SIGN



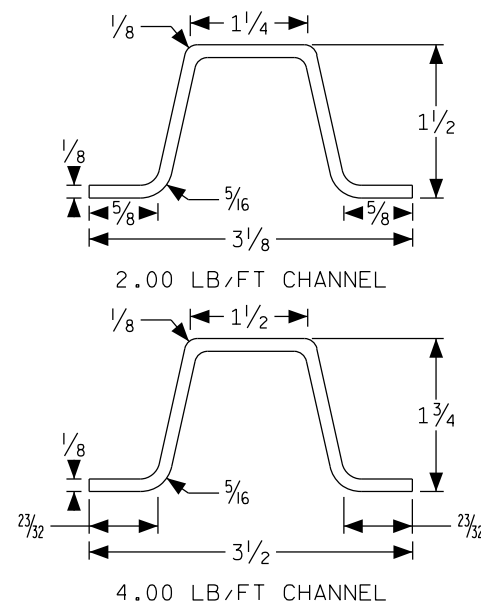
* = 2.00 lb/ft AND 4.00 lb/ft FLANGED CHANNEL, MIN. YIELD STRENGTH = 60,000 PSI (GRADE 60) GALVANIZED

** = FOR 48" HEIGHT PANELS ON OVERHEAD STRUCTURES, ENTIRE SIGN SHALL BE CENTERED VERTICALLY ABOUT THE DEPTH OF THE TRUSS.

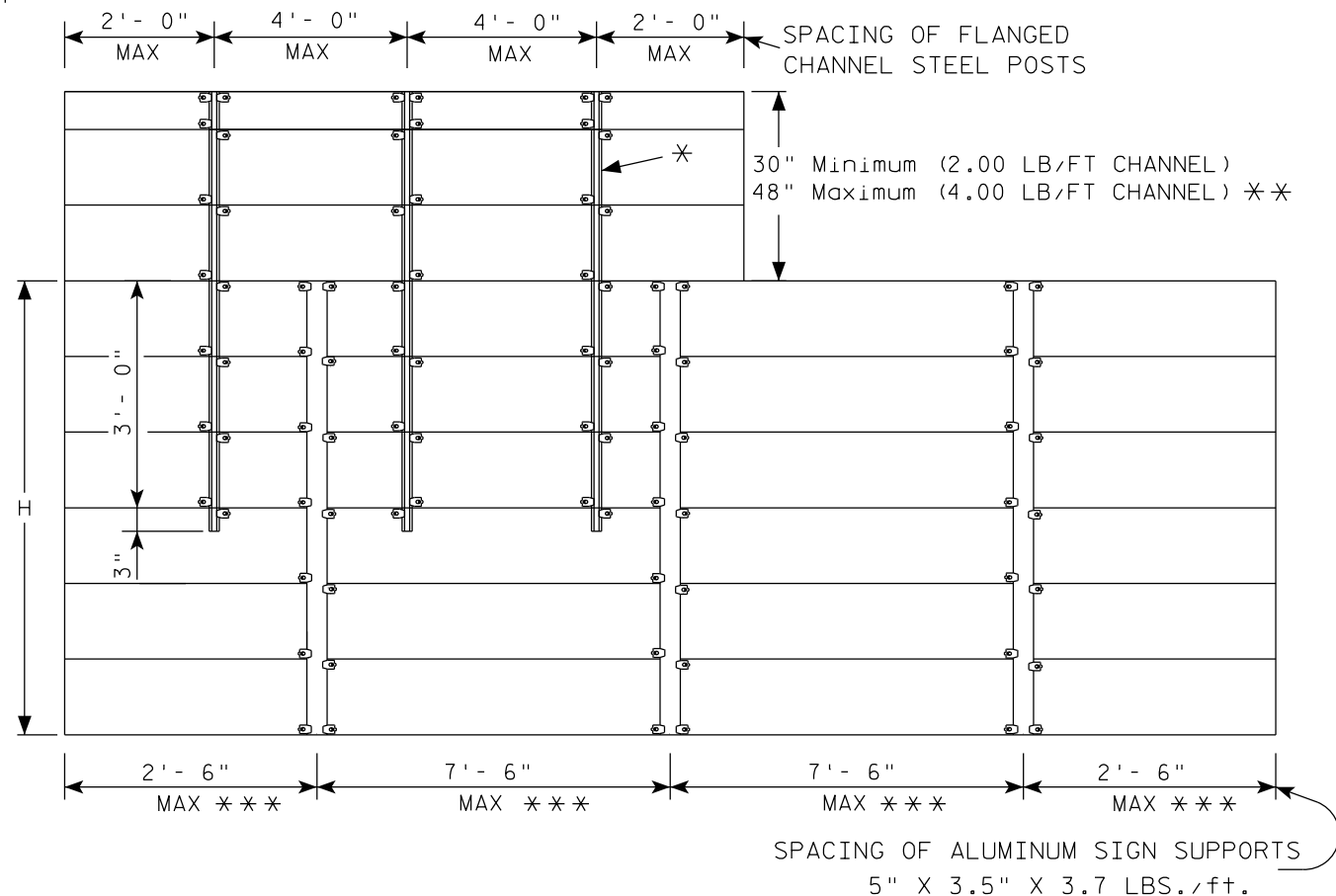
*** THESE SPACING DISTANCES SHALL ONLY BE USED WHEN THE MAIN SIGN HAS A MAXIMUM HEIGHT (DIMENSION H) OF 15 FT OR LESS. FOR SIGNS WITH A HEIGHT OF GREATER THAN 15 FT, STRUCTURAL CALCULATIONS SHALL BE PERFORMED.

FLANGE CHANNEL DETAILS

NOT TO SCALE



SIGN BRIDGE MOUNTED SIGN



GENERAL NOTES

1. Flanged channel steel posts shall conform to size and material above, and shall be considered as incidental to other items in the contract.
2. Number of Flanged channel steel supports varies with length of panel and shall be spaced as shown:
 PANEL LENGTH 8'-0" OR LESS = 2 CHANNELS
 PANEL LENGTH 9'-0" - 12'-0" = 3 CHANNELS
 PANEL LENGTH 13'-0" OR MORE = 4 CHANNELS
 If the flanged channel steel posts can not be horizontally spaced as shown, they can be moved so as to securely hold the sign.

3. The EXIT NUMBER PANEL shall normally be positioned above the guide sign aligned with the right edge of the guide sign. If the guide sign indicates a left exit, the EXIT NUMBER PANEL shall be aligned with the left edge of the guide sign.
4. If the bolt holes in the top panel (EXIT NUMBER), or sub panel (NEXT EXIT) line up with holes in main sign panel, stitch bolts shall be used in addition to the channels.
5. Provide post clips for each sign as shown. (Please note the differences between a ground mounted versus Sign bridge mounted sign as far as number of clips required on the main supports or beams)
6. Structural steel sign supports shall extend to the top of the main signs, as shown on the above details.

ATTACHMENT OF GUIDE SIGNS TO SUPPORTS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

Matthew R. Rauch
 For State Traffic Engineer

DATE 1/07/20

PLATE NO. A4-6.12

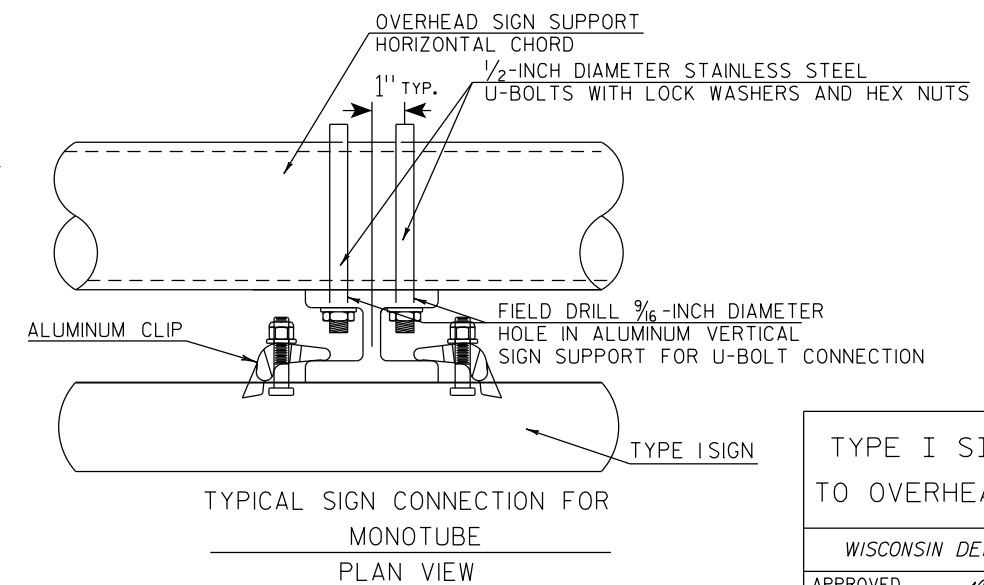
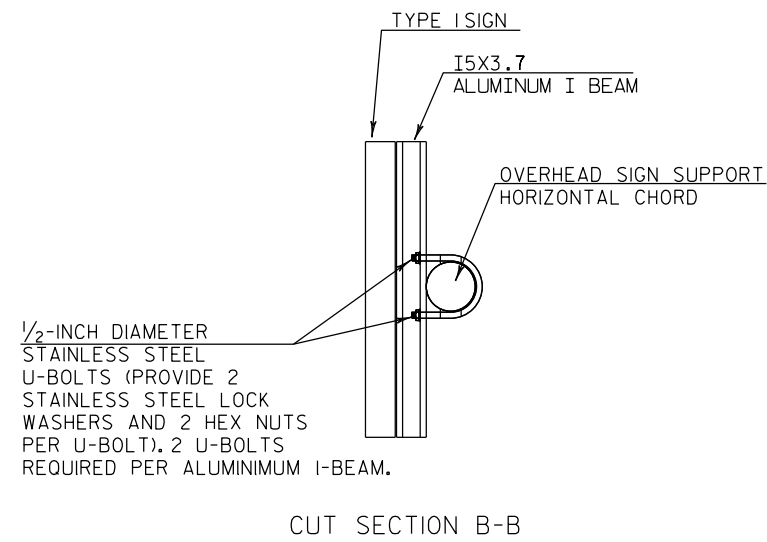
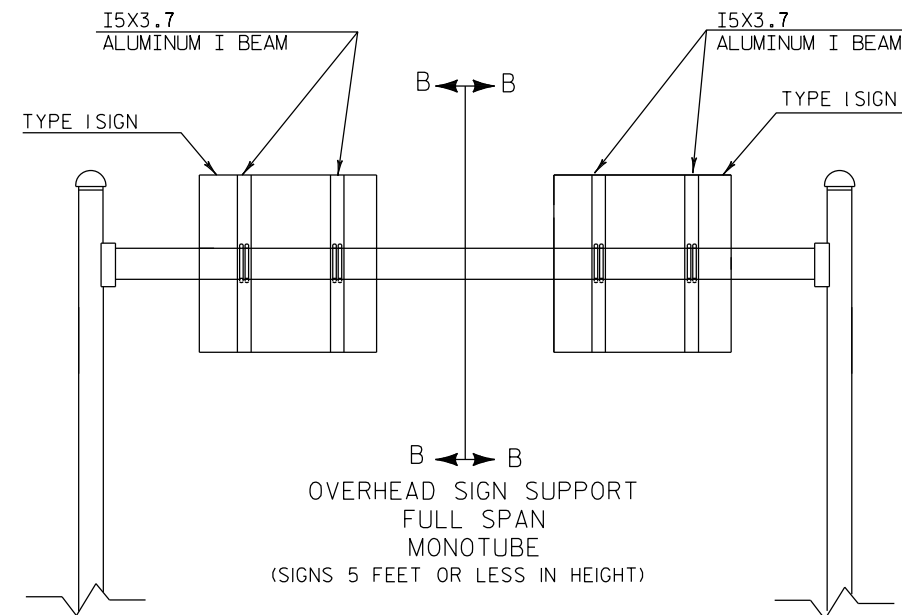
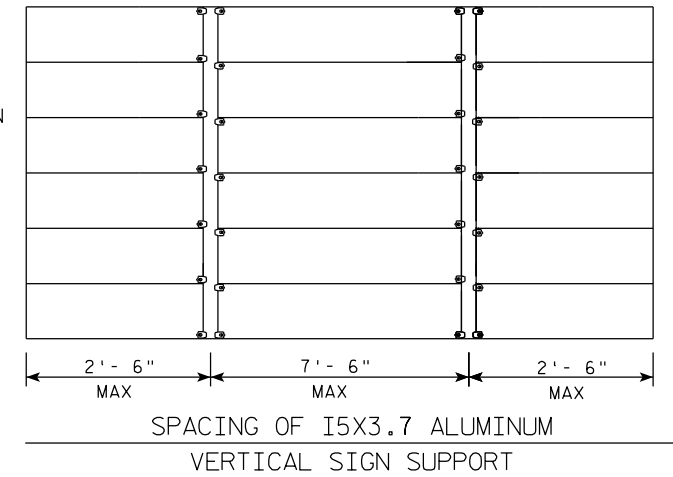
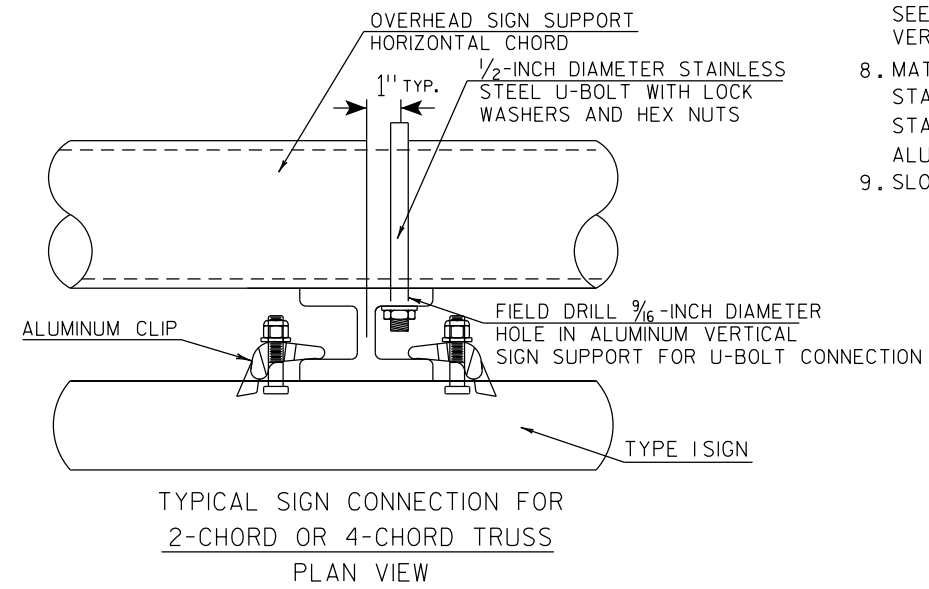
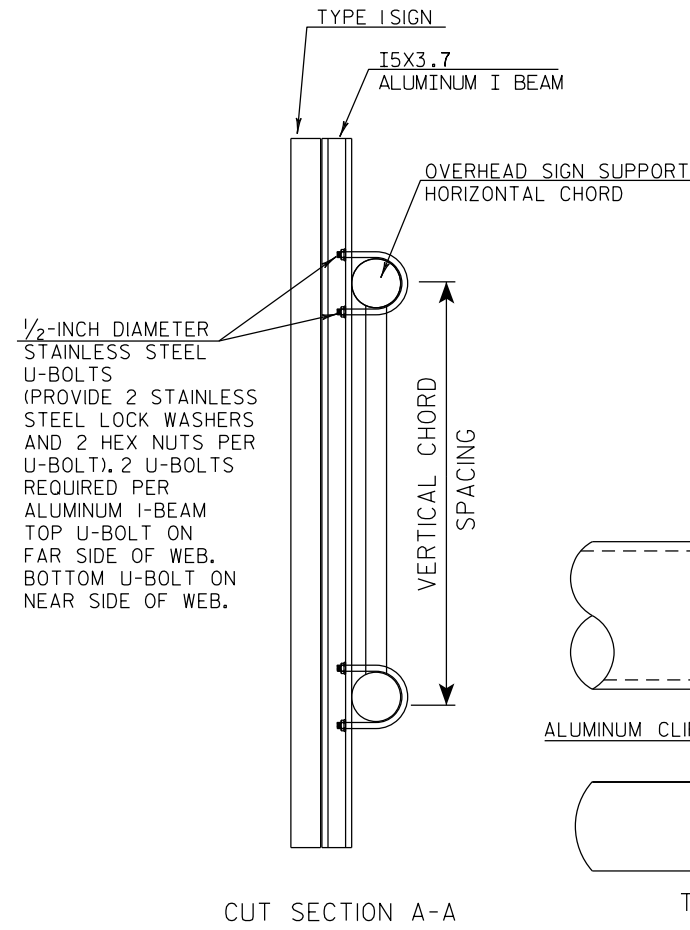
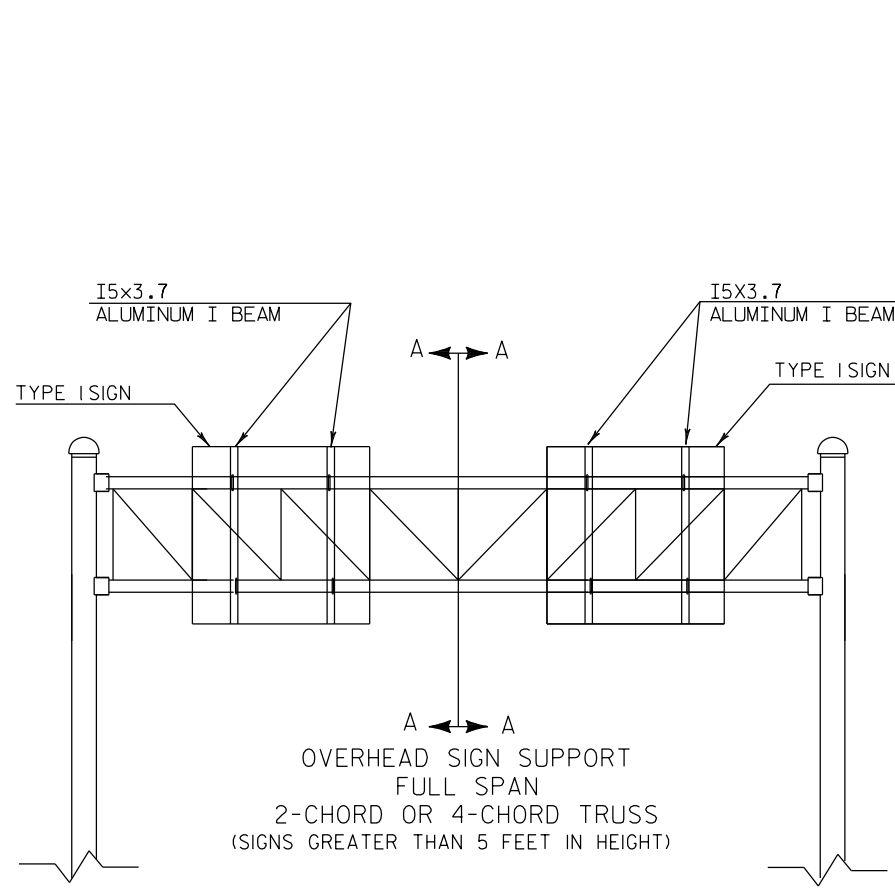
PROJECT NO:

SHEET NO:

E

GENERAL NOTES

1. USE STAINLESS STEEL U-BOLTS, WASHERS, AND NUTS.
2. USE CLIPS ON EVERY EXTRUDED PANEL JOINT PER SIGN PLATE A4-6.
3. USE ALUMINUM VERTICAL SIGN SUPPORT BEAMS HAVING A 5 INCH BEAM DEPTH AND WEIGHT OF 3.7 LBS PER FOOT.
4. U-BOLTS SHALL BE STAINLESS STEEL AND MANUFACTURED TO THE PROPER SIZE TO FIT THE CHORDS OF THE OVERHEAD SIGN STRUCTURE.
5. DIAMETER OF U-BOLTS SHALL BE AS SHOWN.
6. THE LENGTH OF THE ALUMINUM VERTICAL SIGN SUPPORT BEAMS SHALL BE THE SAME AS THE HEIGHT OF THE SIGN THEY ARE SUPPORTING. BEAM LENGTHS MAY BE LONGER FOR PROPER ATTACHMENT TO CHORDS.
7. MINIMUM NUMBER OF BRACKETS PER SIGN IS TWO. SEE DETAIL BELOW FOR SPACING OF ALUMINUM VERTICAL SIGN SUPPORTS
8. MATERIAL NOTES:
STAINLESS STEEL U-BOLTS AND LOCKWASHERS ASTM 304.
STAINLESS STEEL HEX NUTS ASTM A276.
ALUMINUM I-BEAMS ARE 6061-T6.
9. SLOTTED HOLES IN I-BEAMS ARE NOT ALLOWED



TYPE I SIGN CONNECTION TO OVERHEAD SIGN SUPPORT

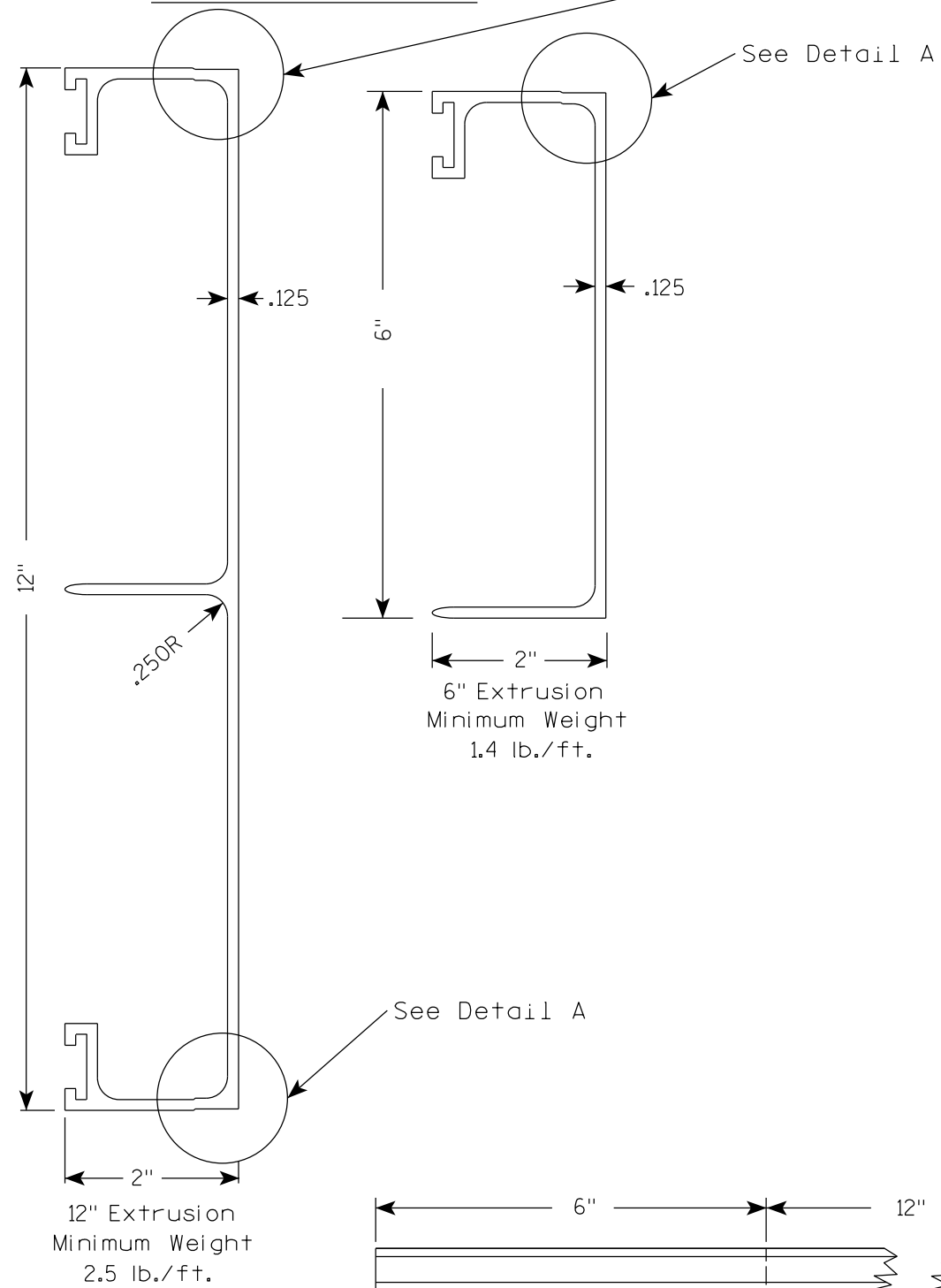
WISCONSIN DEPT OF TRANSPORTATION

APPROVED *Matthew R. Rauch*
State Traffic Engineer

DATE 1/07/20 PLATE NO. A4-7A.1

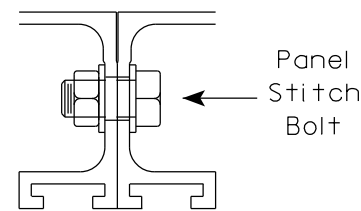
Extruded Shape

Hardware



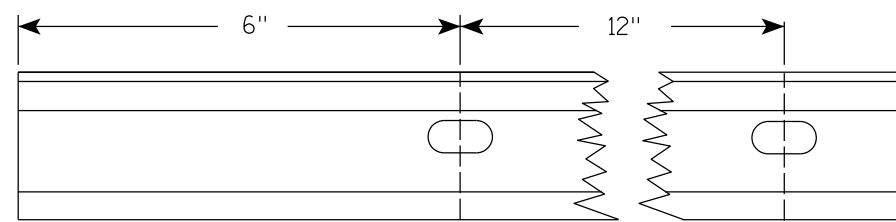
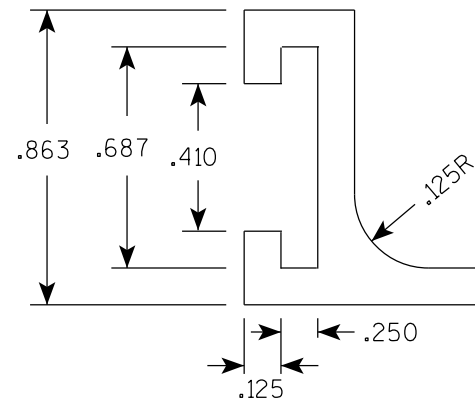
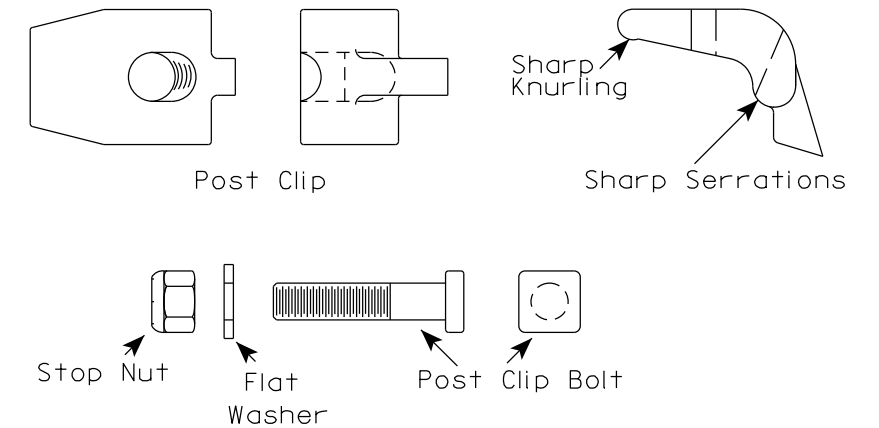
STITCH BOLT, WASHER & NUT

The hardware includes:
 3/8" - 16 X 3/4" Economy Bolt 2024-T4 alloy
 3/8" - Stainless steel stop nut
 3/8" X .064 Flat Washers, Alclad 2024-T4 alloy

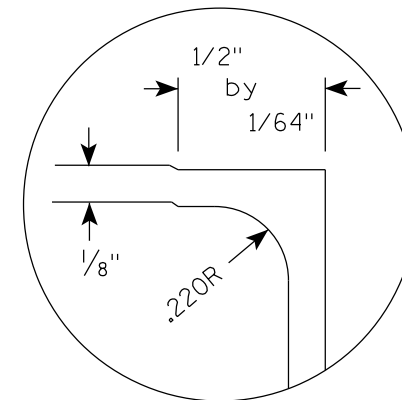


POST CLIP, POST CLIP BOLT, WASHER & NUT

Post Clip shall be Alum. Alloy 356-T6
 Post Clip Bolt shall be Stainless Steel.
 Flat washer shall be 3/8" X .091, Stainless Steel.
 Stop nut shall be stainless steel.



Punch 7/16" x 7/8" ovalholes beginning 6" in from end of extrusion 12" CC on both edges of 6" and 12" panels.



DETAIL A (EDGE WRAP JOINT)

NOTES

1. The contractor may select any brand of extrusion that conforms to the illustrations or meets with the approval of the engineer, but all extrusions used on this contract shall be of the same brand.
2. Panel Stitch Bolts shall be used to assemble adjacent panels. Maximum stitch bolt spacing shall be 24" C-C, and a minimum of 4 bolts shall be used to connect any two extrusions.
3. Post Clips shall be used to attach the sign panel to the sign support.
4. Edge wrapping of sign sheeting required on all extrusions joints shown in Detail A.

ALUMINUM EXTRUSIONS FOR
TYPE I SIGNS

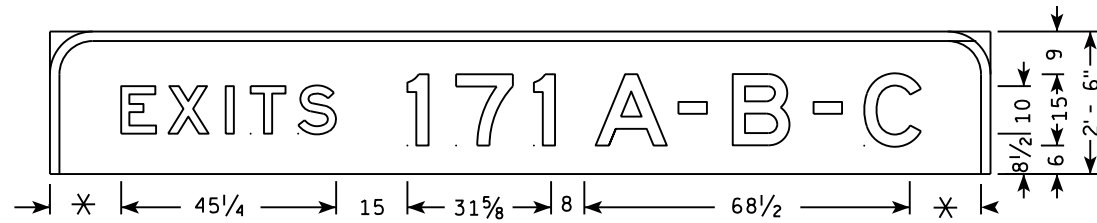
WISCONSIN DEPT OF TRANSPORTATION

APPROVED *Matthew R. Rauch*
 For State Traffic Engineer
 DATE 1/07/20 PLATE NO. A5-2.10

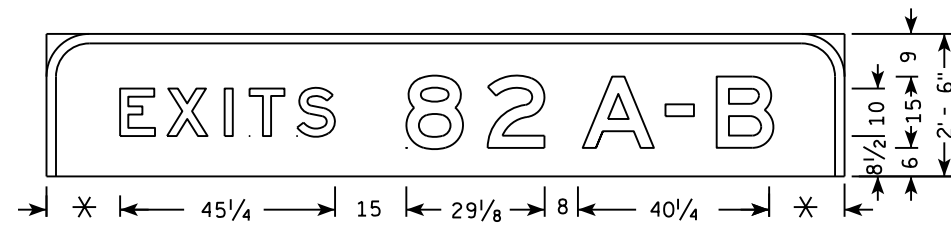
NOTES

1. All Signs Type I - SH Reflective
2. Color:
Background - Green except as NOTED,
Message - White except as NOTED,
All "LEFT" plaques shall be Black on Yellow, Type F Reflective
3. Message Series - E
4. Change message as required and optically adjust spacing to achieve proper balance.
5. E1-5 signs shall have a maximum length, not to exceed that of the primary guide sign it is used with. Where the primary guide sign is narrower than the E1-5 EXIT sign, use the E1-5S layout.
6. Border radius shall be 9".
7. Border width shall be 2".
8. All sign lengths shall be in one foot lengths, either 7', 8', 9', 10', 11', or larger in foot increments, except E1-5aP shall be 6 feet.
9. Spacing between number and letter shall be minimum of 7/2" and maximum of 11/4".

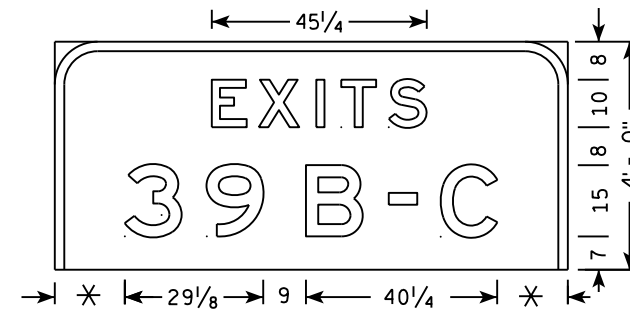
*= Minimum Dimension is 10"



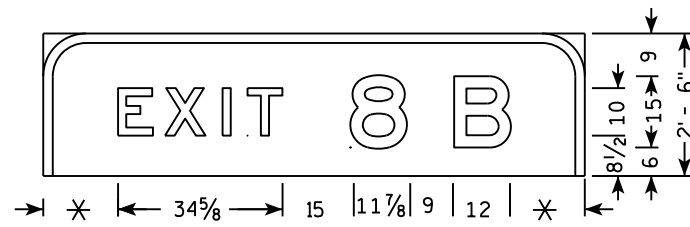
E1-5P



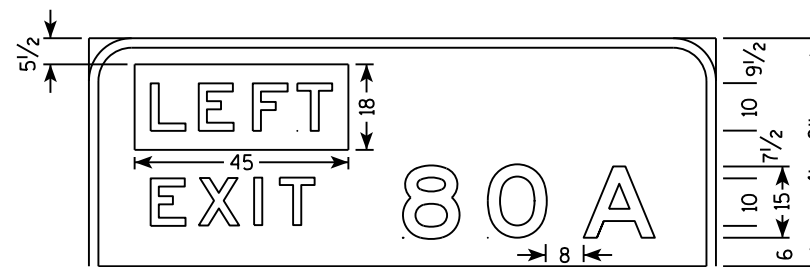
E1-5P



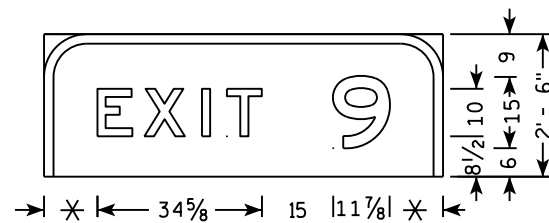
E1-5sP



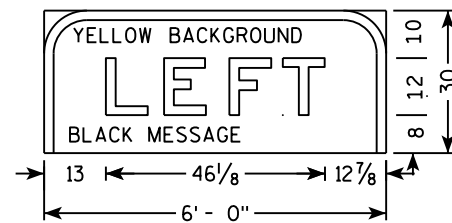
E1-5P



E1-5bP



E1-5P



E1-5aP

TYPICAL SIGNS
E1-5P SERIES

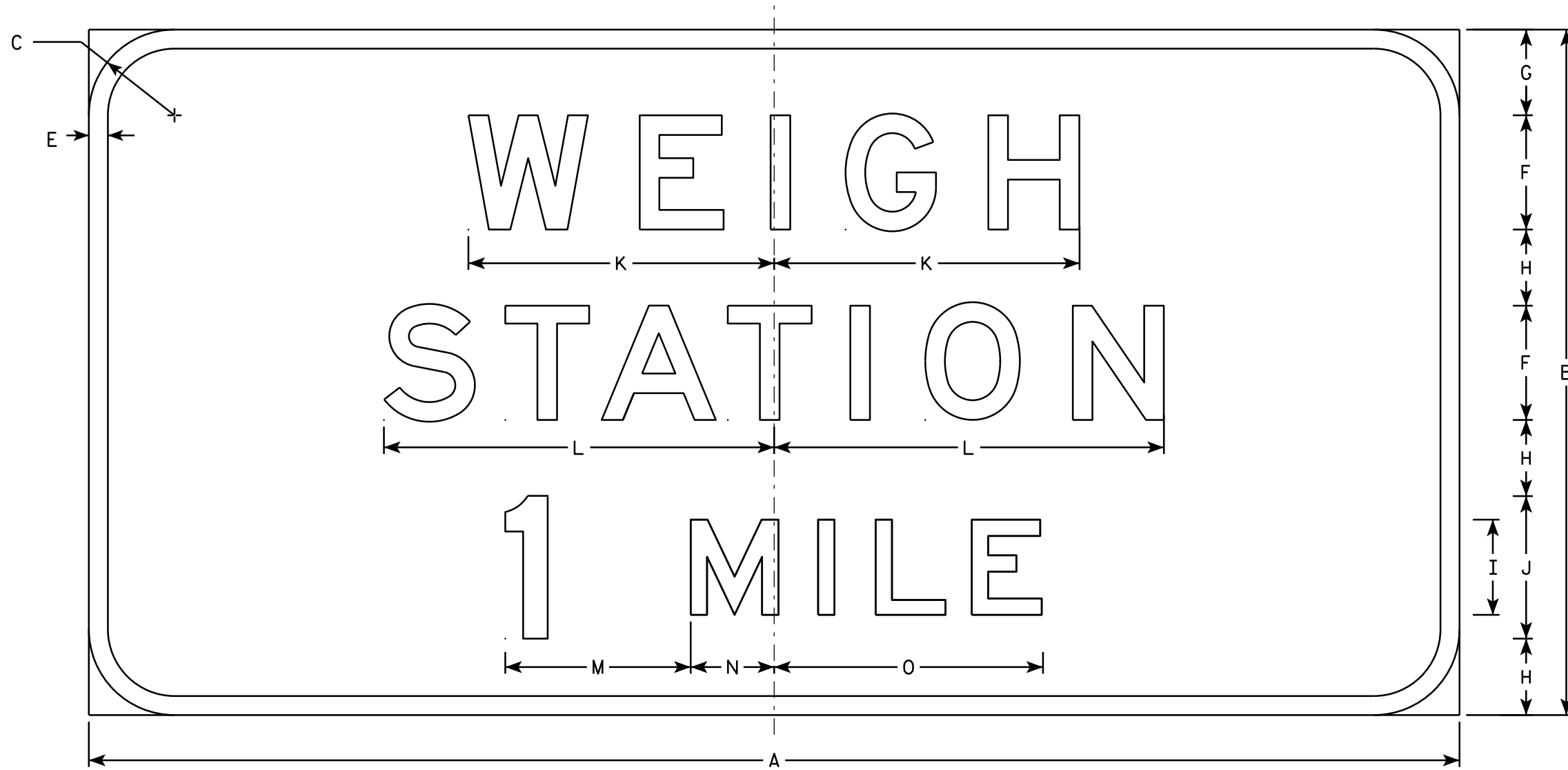
WISCONSIN DEPT OF TRANSPORTATION

APPROVED *Matthew R. Rauch*
For State Traffic Engineer

DATE 3/14/17 PLATE NO. E1-5.14

NOTES

1. Sign is Type I- Type SH Reflective
2. Color:
Background - Green
Message - White
3. Message Series - E



E5-56A

7

7

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2																											
3																											
4	144	72	9		2	12	9	8	10	15	32 1/8	41	19 1/2	8 3/4	28 1/4												72.0
5	144	72	9		2	12	9	8	10	15	32 1/8	41	19 1/2	8 3/4	28 1/4												72.0

STANDARD SIGN
E5-56A

WISCONSIN DEPT OF TRANSPORTATION

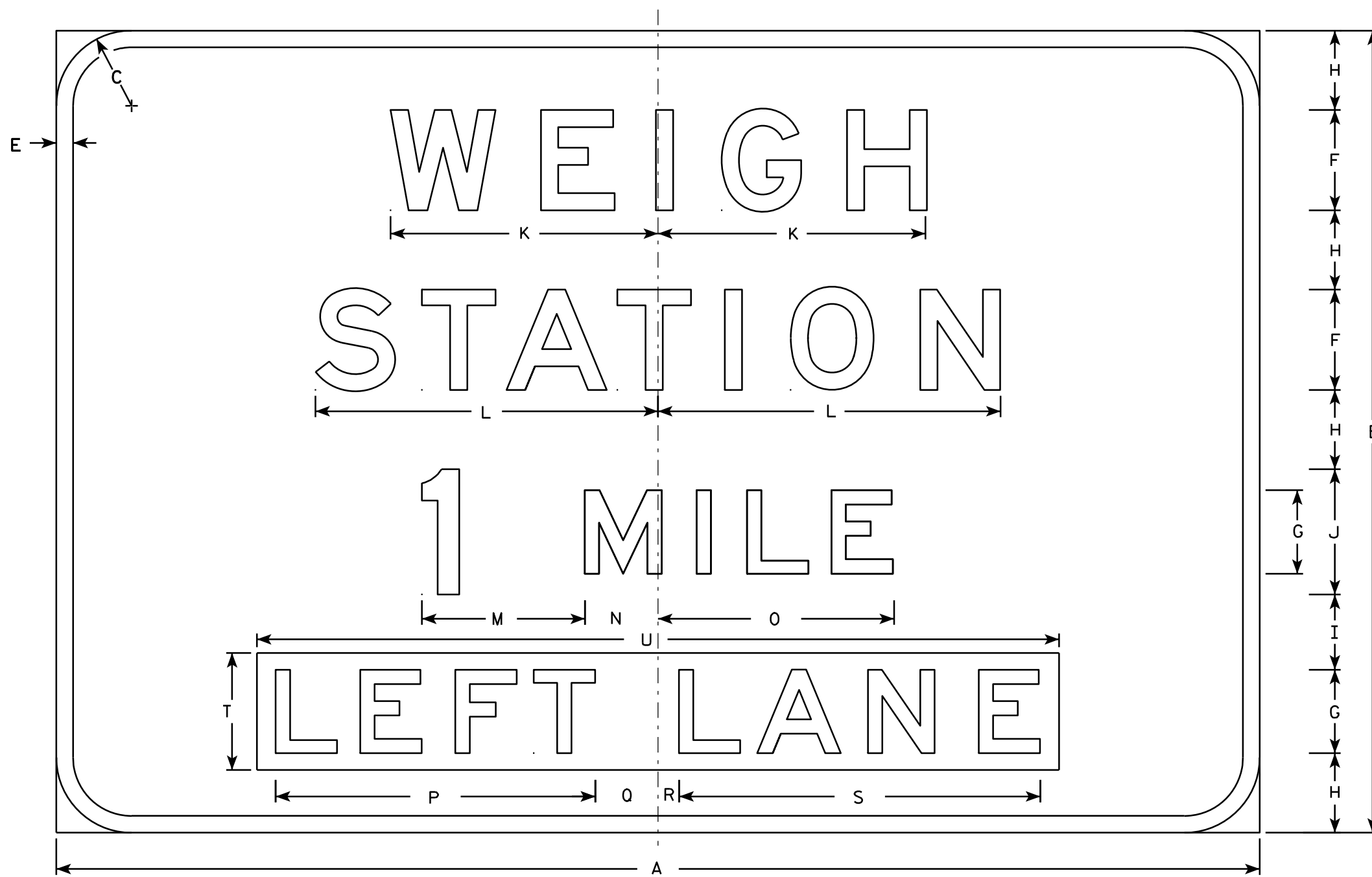
APPROVED *Matthew R. Rauch*
for State Traffic Engineer

DATE 4/29/14 PLATE NO. E5-56A.8

PROJECT NO: _____ HWY: _____ COUNTY: _____ SHEET NO: **E**

NOTES

1. Sign is Type I- Type SH Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
Background - Green except as noted
Message - White except as noted
3. Message Series - E
4. LEFT LANE PLAQUE COLOR:
Background - Yellow - Type F Reflective
Message - Black



E5-56L

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	O	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2																											
3																											
4	144	96	9		2	12	10	9 1/2	9	15	32	41	19 1/2	8 3/4	28 1/4	38 1/4	7 1/2	2 1/2	43 1/4	14	96						96.0
5	144	96	9		2	12	10	9 1/2	9	15	32	41	19 1/2	8 3/4	28 1/4	38 1/4	7 1/2	2 1/2	43 1/4	14	96						96.0

STANDARD SIGN
E5-56L

WISCONSIN DEPT OF TRANSPORTATION

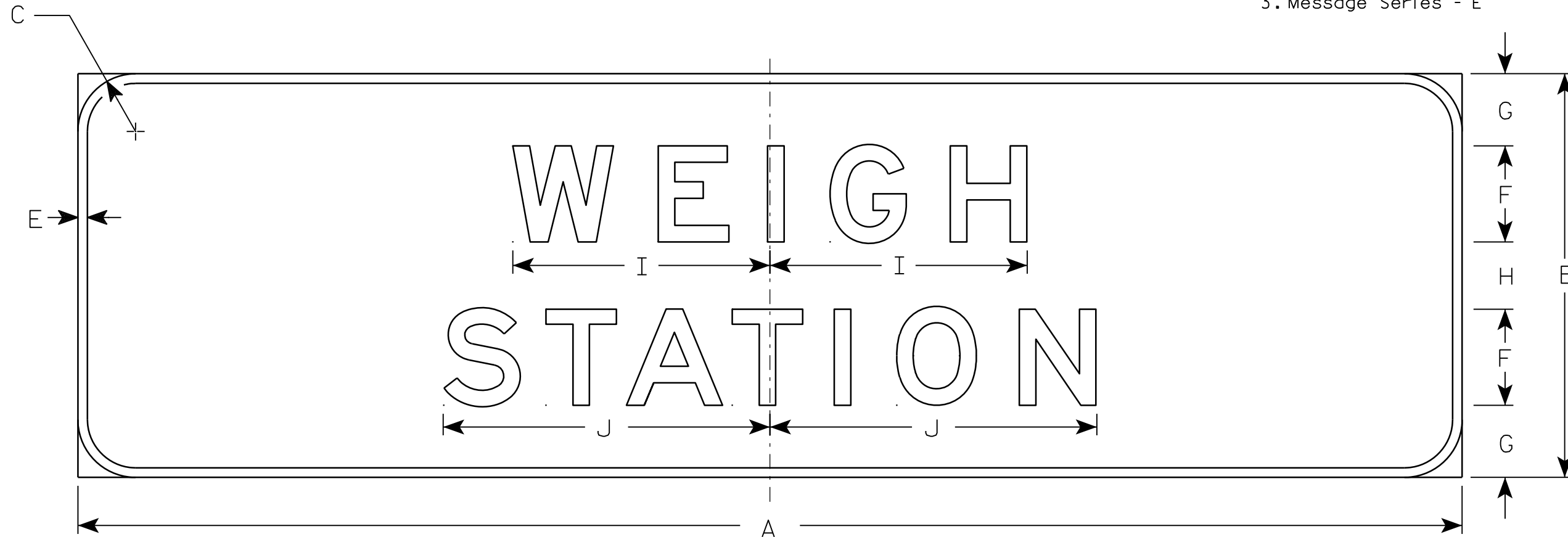
APPROVED *Matthew R. Rauch*
For State Traffic Engineer

DATE 3/5/12 PLATE NO. E5-56L.8

PROJECT NO: _____ HWY: _____ COUNTY: _____ SHEET NO: **E**

NOTES

1. Sign is Type I - Type SH Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
Background - Green
Message - White
3. Message Series - E



7

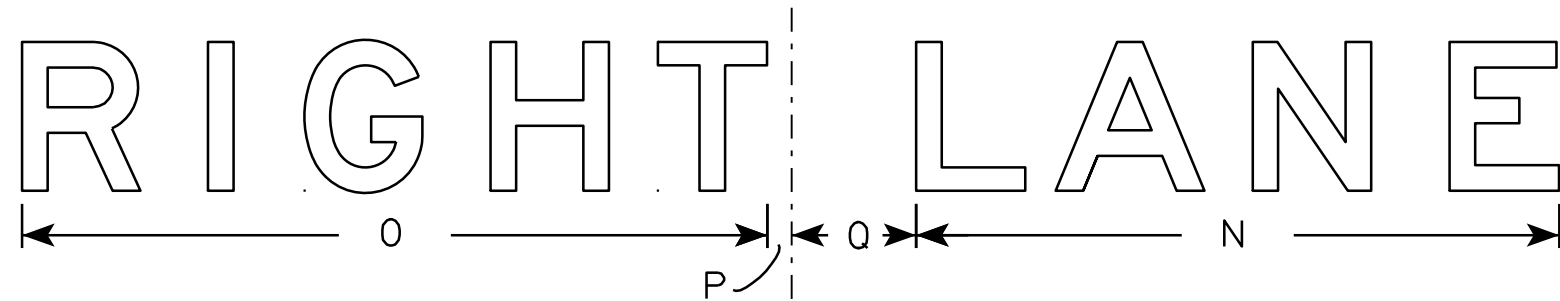
7

E5-57

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2																											
3																											
4	144	42	6		1	10	7 1/2	7	26 3/4	34																	42.0
5	144	42	6		1	10	7 1/2	7	26 3/4	34																	42.0

STANDARD SIGN E5-57	
WISCONSIN DEPT OF TRANSPORTATION	
APPROVED	<i>Matthew R. Rauch</i> State Traffic Engineer
DATE 11/8/10	PLATE NO. E5-57.3

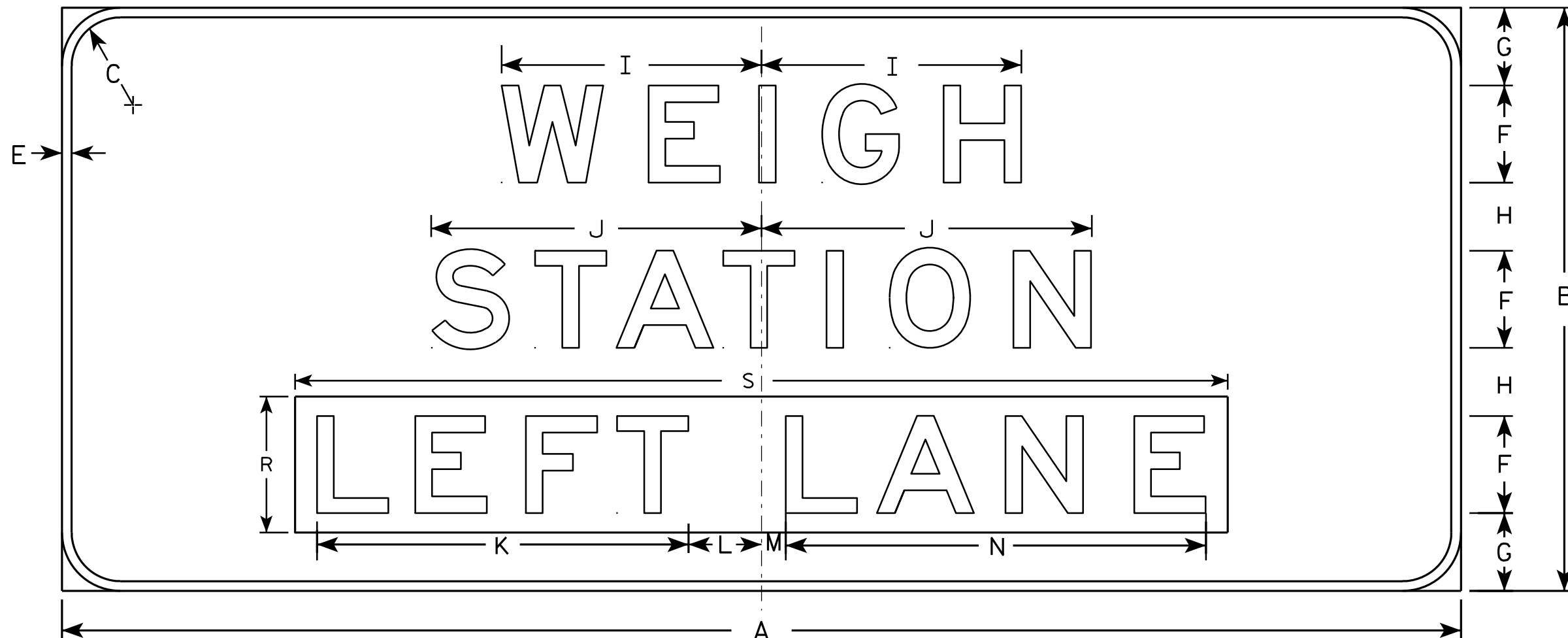
PROJECT NO:	HWY:	COUNTY:	SHEET NO:	E
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E5-57E

NOTES

1. Sign is Type I - Type SH Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
Background - Green
Message - White
3. Message Series - E
4. LEFT LANE PLAQUE COLOR:
Background - Yellow - Type F Reflective
Message - Black
5. RIGHT LANE is on Green Background with White Message



E5-57D

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2																											
3																											
4	144	60	6		1	10	8	7	26 3/4	34	38 1/4	7 1/2	2 1/2	43 1/4	50 1/8	1 5/8	8 3/8	14	96								60.0
5	144	60	6		1	10	8	7	26 3/4	34	38 1/4	7 1/2	2 1/2	43 1/4	50 1/8	1 5/8	8 3/8	14	96								60.0

STANDARD SIGN
E5-57D & E

WISCONSIN DEPT OF TRANSPORTATION

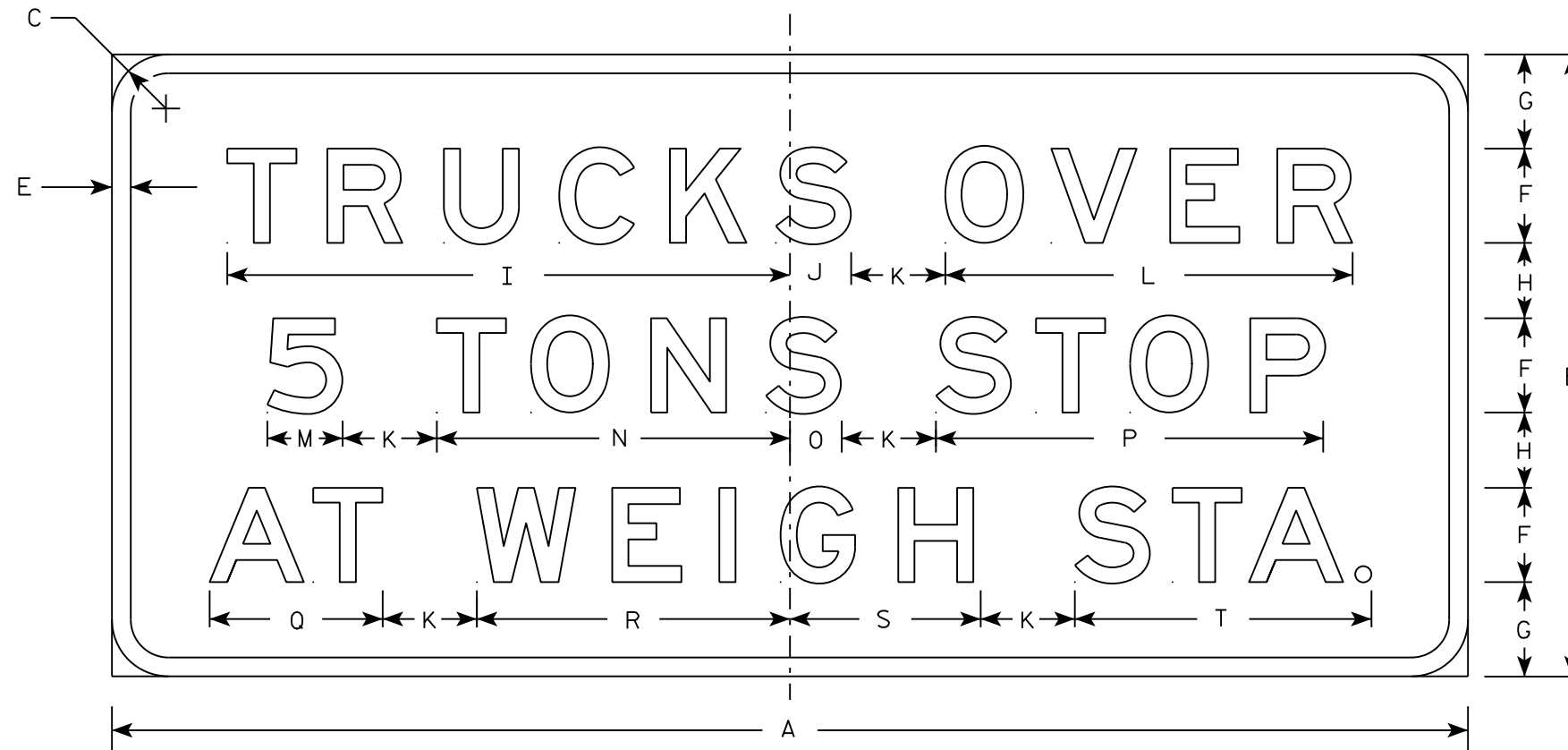
APPROVED *Matthew R. Rauch*
for State Traffic Engineer

DATE 3/5/2012 PLATE NO. E5-57D.5

PROJECT NO: _____ HWY: _____ COUNTY: _____ SHEET NO: **E**

NOTES

1. Sign is Type I or Type II - See Note 5
2. Color:
Background - White
Message - Black
3. Message Series - E
4. Corners may be square or rounded but borders shall be rounded when sign is Type II.
5. Code sizes 2 & 4 are Type II, Type H Reflective, Code size 5 is Type I Type SH Reflective.
6. Base material for Type II signs shall be 0.125 inch aluminum.



R13-1

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	90	36	3		1	6	5	4	36	3 7/8	6	26 1/8	4 3/4	22 3/4	3 1/4	25	11 1/8	19 7/8	12 1/4	19 1/2							22.5
2M	90	36	3		1	6	5	4	36	3 7/8	6	26 1/8	4 3/4	22 3/4	3 1/4	25	11 1/8	19 7/8	12 1/4	19 1/2							22.5
3																											
4	120	48	6		1	8	7	5	47 7/8	5 1/8	8	34 3/4	6 3/8	30 1/8	4 3/8	33 1/8	14 7/8	26 3/8	17 1/8	26 1/8							40.0
5	144	66	6		2	10	10	8	59 3/4	6 1/2	10	43 1/4	8	37 1/2	5 1/2	36 7/8	17 3/4	33 1/4	20 1/4	31 1/2							66.0

STANDARD SIGN
R13-1

WISCONSIN DEPT OF TRANSPORTATION

APPROVED *Matthew R. Rauch*
For State Traffic Engineer

DATE 11/29/16 PLATE NO. R13-1.8

PROJECT NO: _____ HWY: _____ COUNTY: _____ SHEET NO: **E**

Notes



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