WKE

MAY 2016

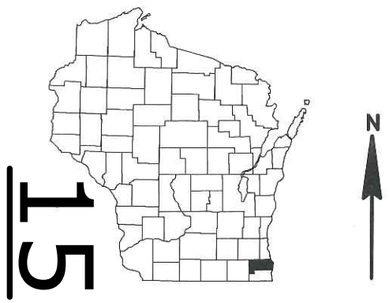
PROJECT ID: 1320-20-60

WITH:

COUNTY: RACINE

ORDER OF SHEETS

TOTAL SHEETS = 186



DESIGN DESIGNATION

A.A.D.T. (2018)	=	10,600
A.A.D.T. (2038)	=	11,800
D.H.V.	=	4.8%
D.D.	=	59/41
T.	=	5.9%
DESIGN SPEED	=	VARIES (60 MPH, 50 MPH, 35 MPH)
ESALS	=	1,895,770

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 (CAUTION)
- MARSH AREA
- WOODED OR SHRUB AREA

PROFILE

- GRADE LINE
- ORIGINAL GROUND
- MARSH OR ROCK PROFILE (To be noted as such) (ROCK)
- SPECIAL DITCH (LABEL)
- GRADE ELEVATION (95.36)
- CULVERT (Profile View)

UTILITIES

- ELECTRIC (E)
- FIBER OPTIC (FO)
- GAS (G)
- SANITARY SEWER (SAN)
- STORM SEWER (SS)
- TELEPHONE (T)
- WATER (W)
- UTILITY PEDESTAL
- POWER POLE
- TELEPHONE POLE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

ROADWAY MAINTENANCE PROJECT

DURAND AVENUE

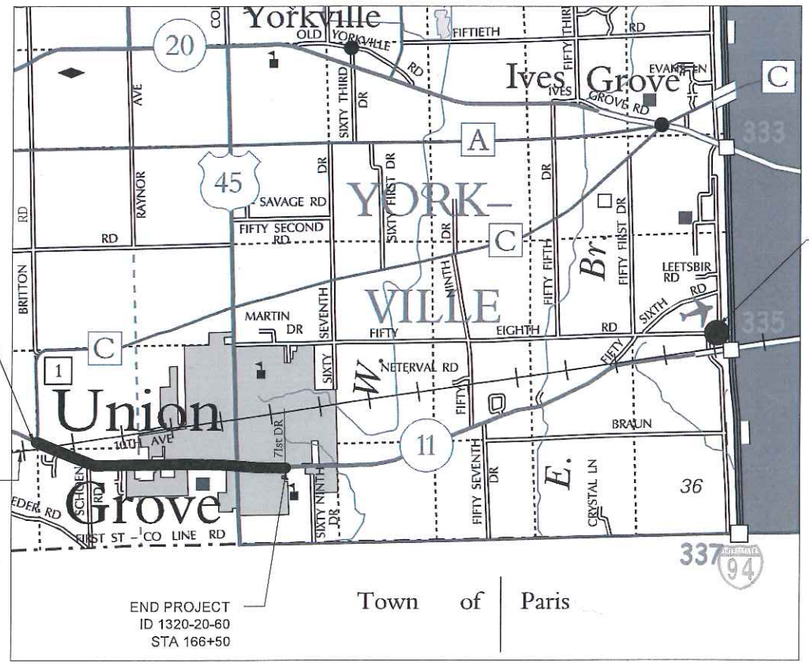
CTH C TO 71ST DRIVE

STH 11

RACINE COUNTY

STATE PROJECT NUMBER
1320-20-60

STATE PROJECT	FEDERAL PROJECT	
	PROJECT	CONTRACT
1320-20-60		



LAYOUT

SCALE 0 — 1 MILE

TOTAL NET LENGTH OF CENTERLINE = 2.322 MI

HORIZONTAL POSITIONS SHOWN ON THIS PLAN ARE WISCONSIN COUNTY COORDINATES,RACINE COUNTY, NAD83 (2007), IN U.S. SURVEY FEET. VALUES ARE GRID COORDINATES, GRID BEARINGS, AND GRID DISTANCES. GRID DISTANCES MAY BE USED AS GROUND DISTANCES.

ELEVATIONS ON THIS PLAN ARE REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM OF 1988, NAVD88, (2007).

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

PREPARED BY

Surveyor	WISDOT
Designer	MICHAEL LUEDTKE
Project Manager	MALATHI KARRI
Regional Examiner	STEVE CHOJNACKI
Regional Supervisor	JANET CANNON

APPROVED FOR THE DEPARTMENT

DATE: 1/29/16 (Signature)

E

UTILITY CONTACT LIST

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Waukesha WI 53188
Phone: (262) 896-7434
me1754@att.com

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Canadian Pacific Railway Company
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Minneapolis, MN 55402
Phone: (612) 330-4553
Fax: (612) 904-5917
oom0001@cpr.ca

OTHER CONTACTS

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WISCONSIN DEPARTMENT OF NATURAL RESOURCES
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WISDOT PROJECT MANAGER
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EMAIL: malathi.karri@dot.wi.gov

ORDER OF SHEETS

ABBREVIATIONS

BLDG.	BUILDING
BMP	BEST MANAGEMENT PRACTICE
CNE	CONSTRUCTION EASEMENT
CP	CONTROL POINT
CSW	CONRETE SIDEWALK
CTR	CENTER
ECIP	EROSION CONTROL IMPLENTATION PLAN
F.E.	FIELD ENTRANCE
HMA	HOT MIX ASPHALT
HSE.	HOUSE
MAX.	MAXIMUM
MIN.	MINIMUM
NOR.	NORMAL
P.E.	PRIVATE ENTRANCE
O.L.	PROPERTY LINE
R	RADIUS
REQ'D	REQUIRED
R/L	REFERENCE LINE
R/W	RIGHT-OF-WAY
S.D.	STANDARD DETAIL DRAWING
TLE	TEMPORARY EASEMENT
TYP	TYPICAL

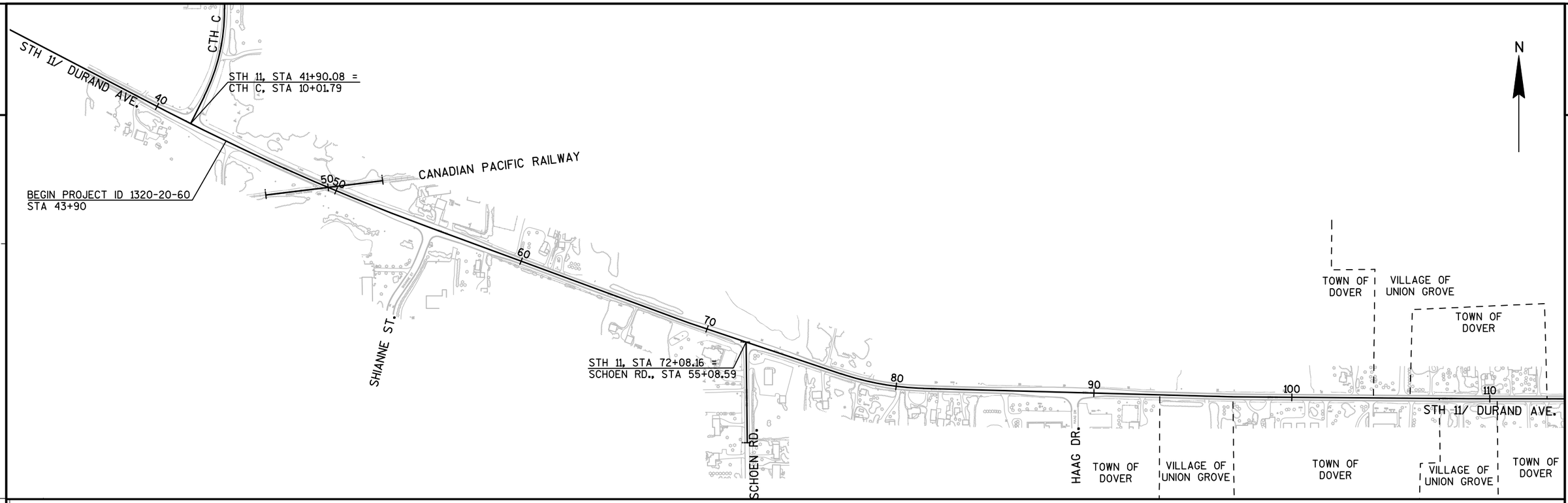
GENERAL NOTES:

1. THE LOCATION OF EXISTING UTILITIES, AS NOTED ON THE PLANS, ARE APPROXIMATE. THERE MAY BE OTHER UTILITY INSTALLATIONS WITHIN THE PROJECT AREA THAT ARE NOT SHOWN.
2. THE CONTRACTOR SHALL NOTIFY DIGGERS HOTLINE AND AFFECTED UTILITIES PRIOR TO THE START OF WORK. ANY LOCAL MUNICIPALITY OR PUBLIC AGENCY WHICH IS NOT A MEMBER OF DIGGERS HOTLINE MUST BE CONTACTED SEPARATELY.
3. TRAFFIC CONTROL DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS DIRECTED BY THE ENGINEER. NO WORK MAY BEGIN UNTIL PROPER TRAFFIC CONTROL DEVICES ARE PLACED AND APPROVED BY THE ENGINEER.
4. EROSION CONTROL BMPS ARE AT SUGGESTED LOCATIONS. THE ACTUAL LOCATIONS WILL BE DETERMINED BY THE CONTRACTOR'S ECIP AND BY THE ENGINEER. EROSION CONTROL MEASURES SHALL BE INSTALLED PRIOR TO THE START OF CONSTRUCTION. EROSION CONTROL BMPS SHALL BE MAINTAINED UNTIL PERMANENT VEGETATION IS ESTABLISHED OR UNTIL THE ENGINEER DETERMINES THE BMP IS NO LONGER REQUIRED.
5. INLET PROTECTION IS REQUIRED AT ALL INLETS AS PER DETAIL OR AS DIRECTED BY THE ENGINEER.
6. DIMENSIONS GIVEN FOR EXISTING FEATURES SHALL BE CONSIDERED AS APPROXIMATE AND SHOULD BE MEASURED IN FIELD FOR MATCHING PURPOSE.
7. A SAWED JOINT IS REQUIRED WHERE NEW PAVEMENT MEETS EXISTING PAVEMENT.
8. EXISTING DRIVEWAY AND ENTRANCE SURFACES SHALL BE RESTORED IN-KIND AS DIRECTED BY THE ENGINEER.
9. STOCKPILE EXCESS MATERIAL OR SPOILS ON UPLAND AREAS AWAY FROM WETLANDS, FLOODPLAINS, AND WATERWAYS. STOCKPILED SOIL SHALL BE PROTECTED AGAINST EROSION. IF STOCKPILED MATERIAL IS LEFT FOR MORE THAN FOURTEEN (14) CALENDAR DAYS, SEED THE STOCKPILE WITH TEMPORARY SEED.
10. RE-TOPSOIL GRADED AREAS, AS DESIGNATED BY THE ENGINEER, IMMEDIATELY AFTER GRADING IS COMPLETED WITHIN THOSE AREAS. SEED, FERTILIZE AND EROSION MAT TOP-SOILED AREAS, AS DESIGNATED BY THE ENGINEER, WITHIN (5) CALENDAR DAYS AFTER PLACEMENT OF TOPSOIL. IF GRADED AREAS WILL BE LEFT EXPOSED FOR MORE THAN (14) CALENDAR DAYS, SEED THOSE AREAS WITH TEMPORARY SEED WITHIN (3) CALENDAR DAYS OF INITIAL DISTURBANCE.

ALL HMA PAVEMENT LOCATIONS SHALL BE CONSTRUCTED WITH THE FOLLOWING LAYERS AND GRADATIONS:

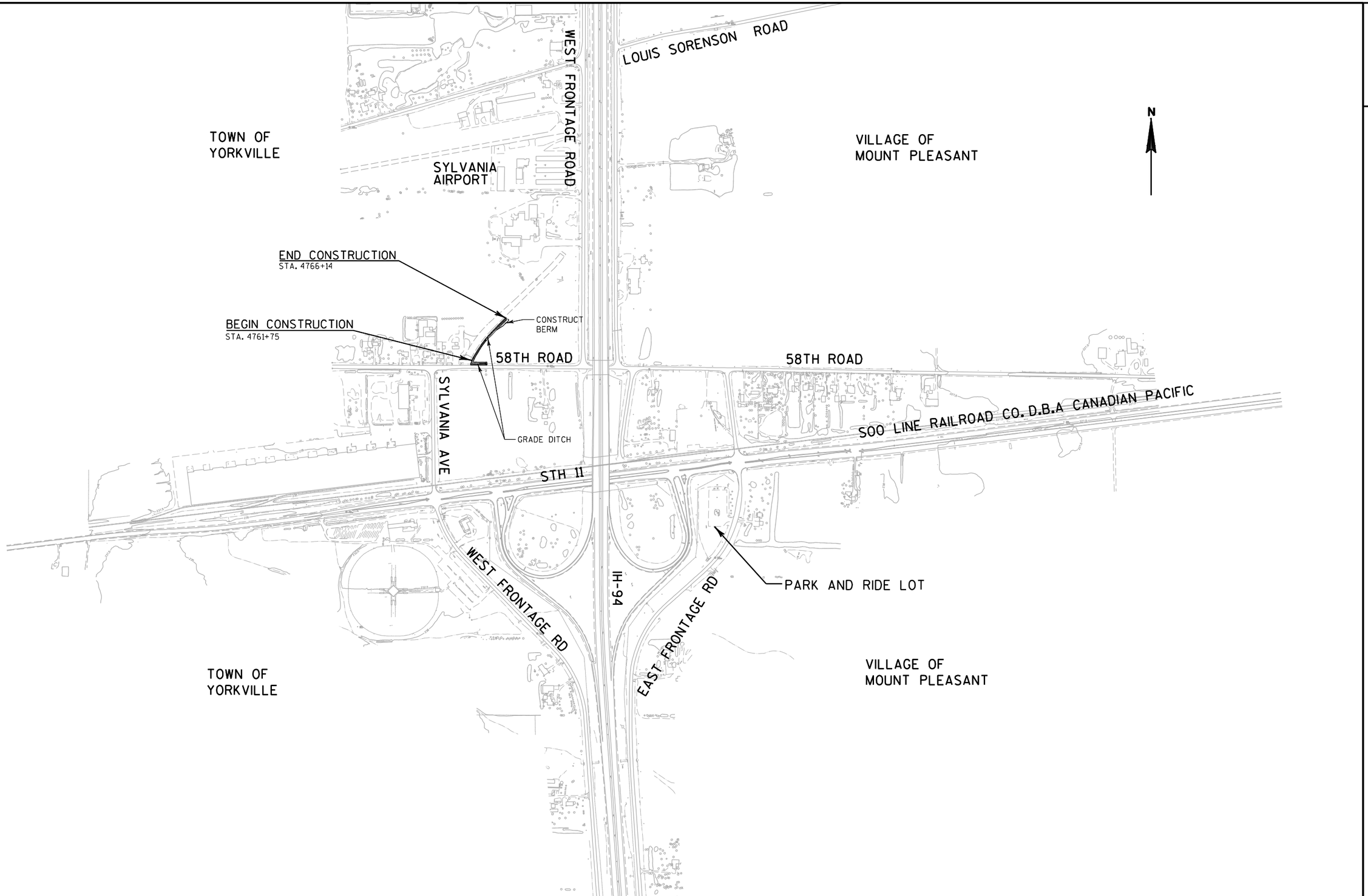
HMA LAYERS

LOCATION	TYPE and MATERIAL	SIZE	DEPTH
STH 11 Mainline	4 MT 58-28 S	12.5 mm	2-INCHES
Railroad Section & Full Depth Milling			
Upper Layer	4 MT 58-28 S	12.5 mm	2-INCHES
Lower Layer	4 MT 58-28 S	12.5 mm	2 1/4-INCHES



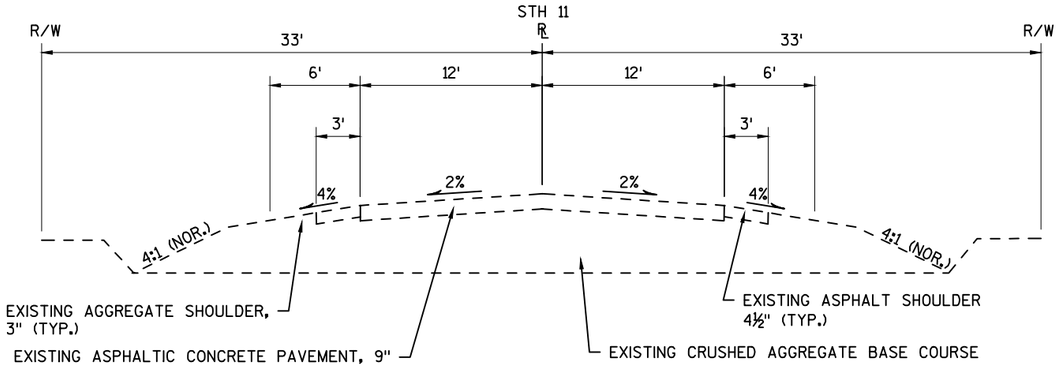
PROJECT NO: 1320-20-60	HWY: STH 11	COUNTY: RACINE	PROJECT OVERVIEW	SHEET 3	E

2

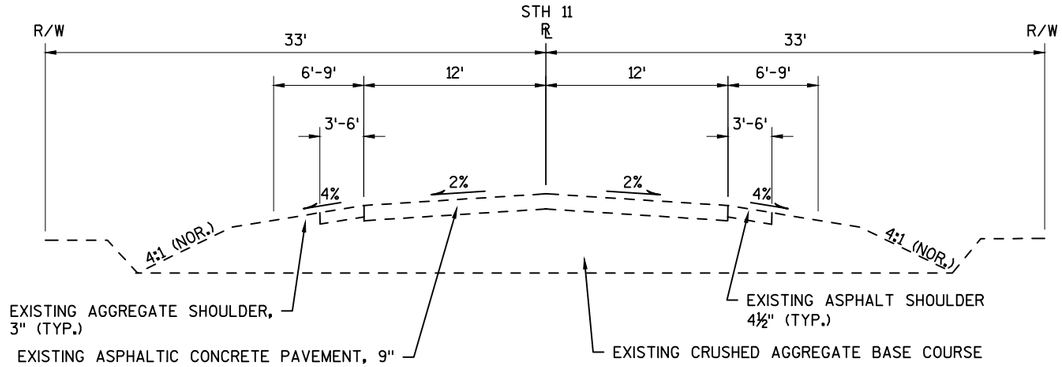


PROJECT NO: 1320-20-60	HWY: STH 11	COUNTY: RACINE	PROJECT OVERVIEW: WEST FRONTAGE/58TH ROAD DITCH	SHEET 4	E

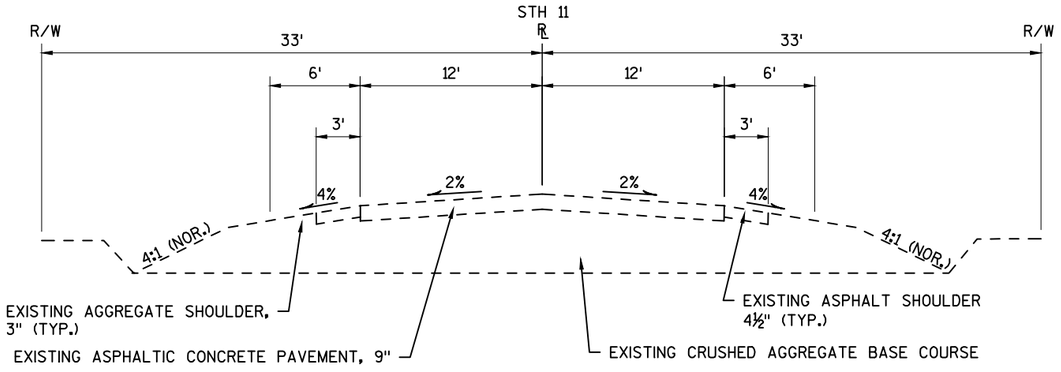
FILE NAME : Z:\Racine\CADDS\13\13_Grading\13NWFR-Ditch\020201_po.dgn PLOT DATE : 1/7/2016 PLOT BY : tony.baciak PLOT NAME : PLOT SCALE : 1:700
WISDOT/CADDS SHEET 42



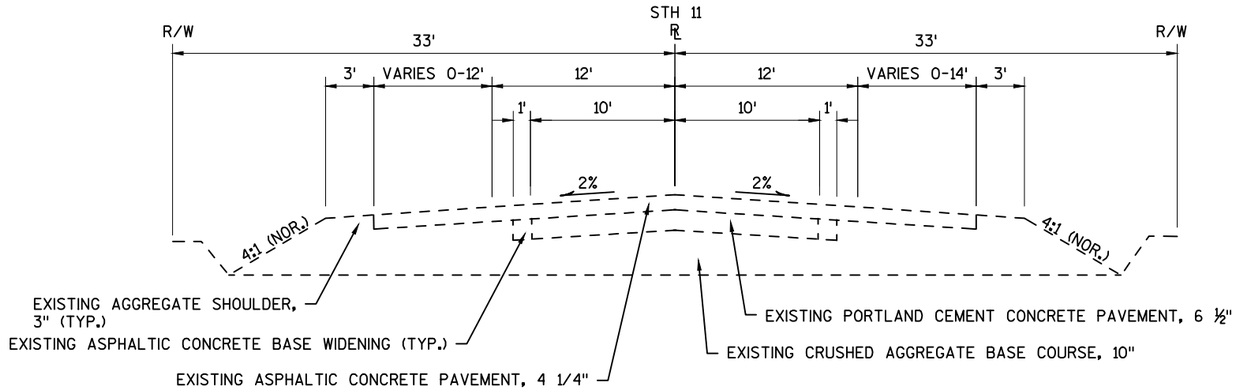
EXISTING TYPICAL SECTION
STH 11
CTH C TO WEST OF RAILROAD TRACKS
STA 43+90 - STA. 49+35



EXISTING TYPICAL SECTION
STH 11
AT RAILROAD TRACKS
STA 49+35 - STA. 49+65



EXISTING TYPICAL SECTION
STH 11
EAST OF RAILROAD TRACKS TO SHIANNE STREET
STA 49+65 - STA. 51+60



EXISTING TYPICAL SECTION
STH 11
BYPASS LANES

SHIANNE STREET
STA 51+60 - STA. 59+50

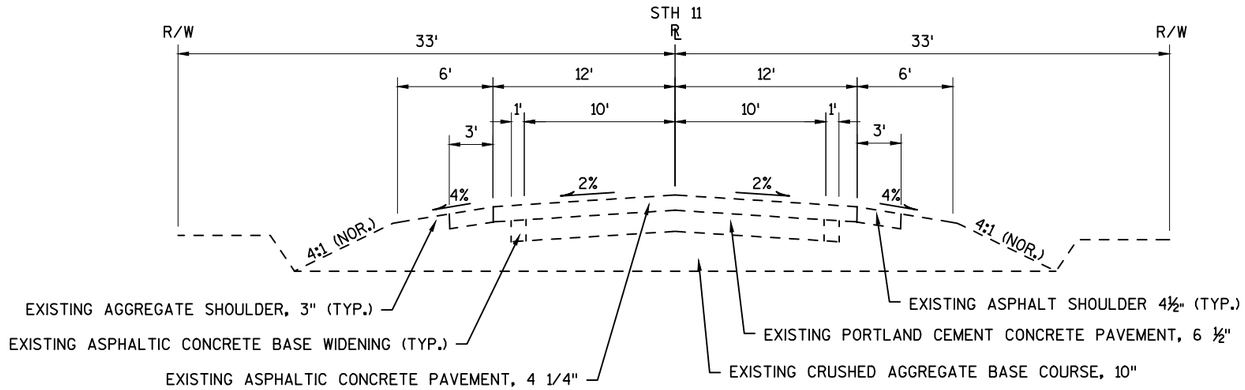
SCHOEN ROAD
STA 69+00 - STA. 76+00

HAAG DRIVE
STA 85+00 - STA. 92+50

UNNAMED DRIVES
STA 99+00 - STA 110+00

INDUSTRIAL PARK DRIVE
STA 115+70 - STA. 118+50

YORK STREET
STA 123+00 - STA. 126+00



EXISTING TYPICAL SECTION

STH 11

SHIANNE STREET TO HIGH STREET

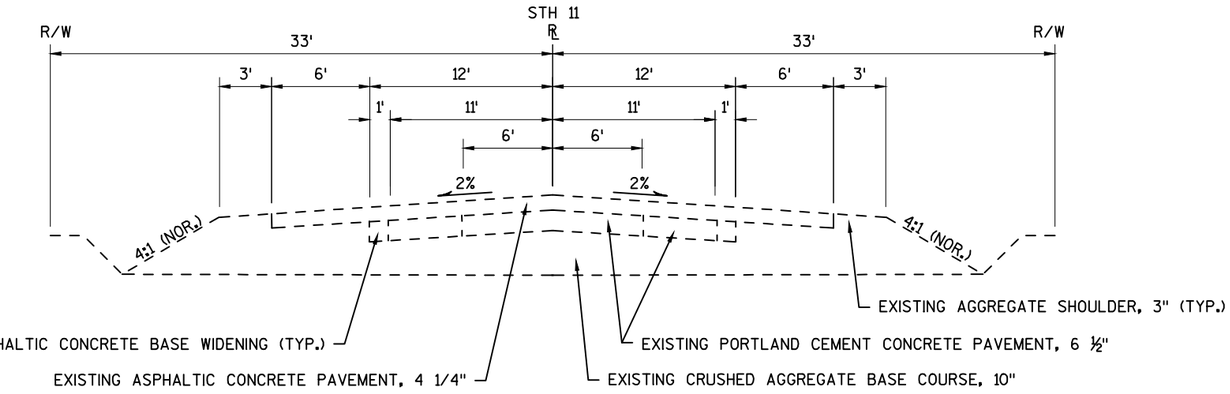
STA 59+50 - STA. 69+00

STA 76+00 - STA. 85+00

STA 92+50 - STA. 99+00

STA 110+00 - STA. 115+70

STA 118+50 - STA. 123+00

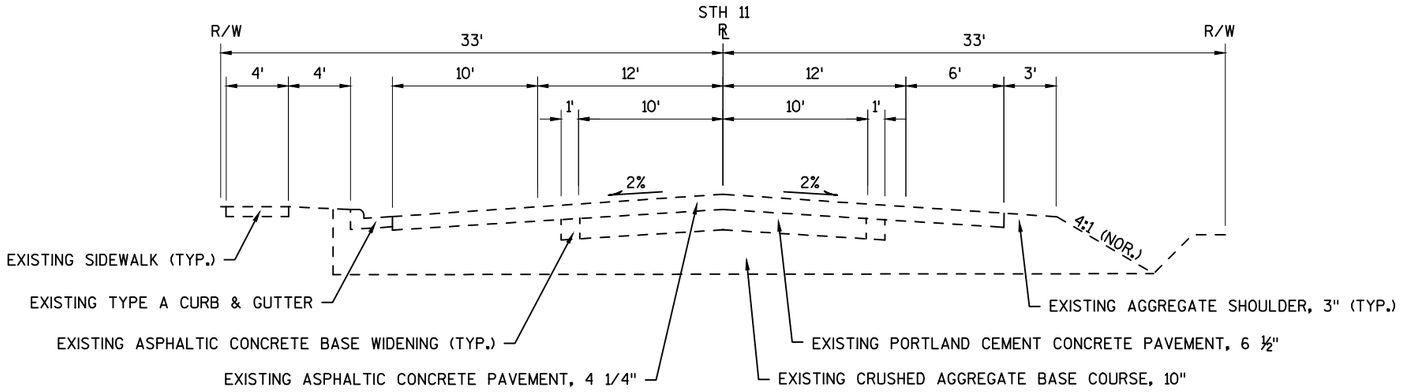


EXISTING TYPICAL SECTION

STH 11

YORK STREET TO HIGH STREET

STA 123+15 - STA. 140+75



EXISTING TYPICAL SECTION

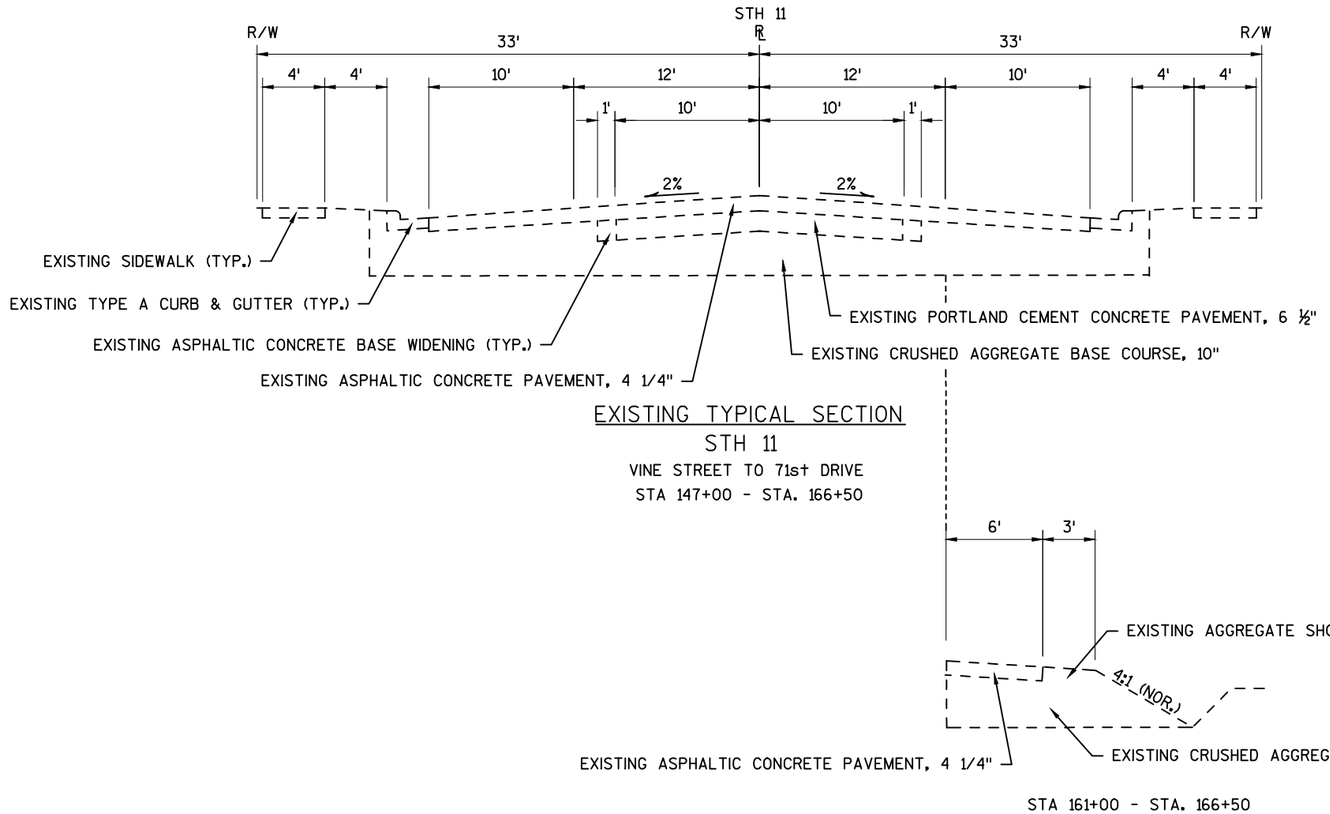
STH 11

HIGH STREET TO VINE STREET

STA 140+75 - STA. 147+00

PROJECT NO: 1320-20-60	HWY: STH 11	COUNTY: RACINE	PLAN: TYPICAL SECTIONS	SHEET 6	E

2



EXISTING TYPICAL SECTION
STH 11
VINE STREET TO 71st DRIVE
STA 147+00 - STA. 166+50

STA 161+00 - STA. 166+50

PROJECT NO: 1320-20-60	HWY: STH 11	COUNTY: RACINE	PLAN: TYPICAL SECTIONS	SHEET 7	E

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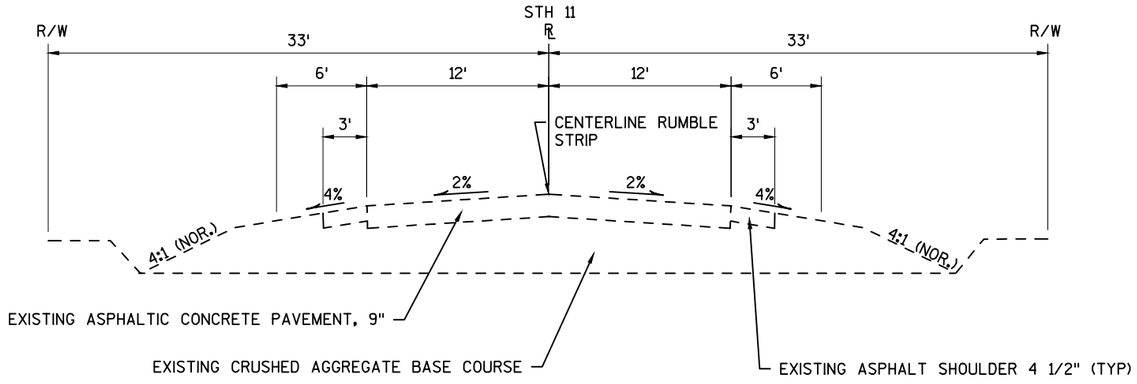
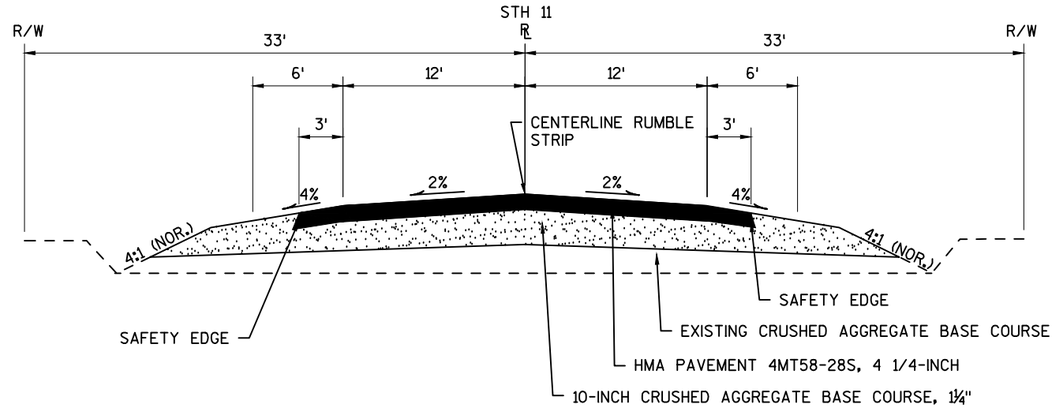
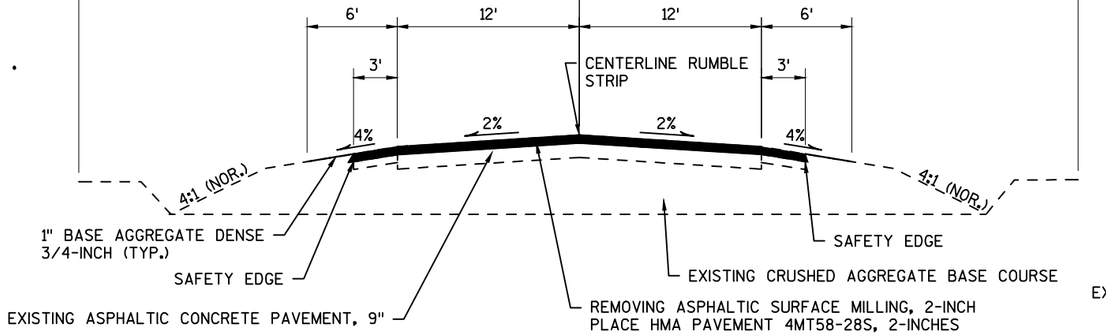
LAYOUT NAME - ****
PLOT DATE : 1/27/2016 4:04 PM PLOT BY : WAGNER, SCOTT H PLOT NAME : PLOT SCALE : 1 IN:10 FT
WISDOT/CADDS SHEET 42



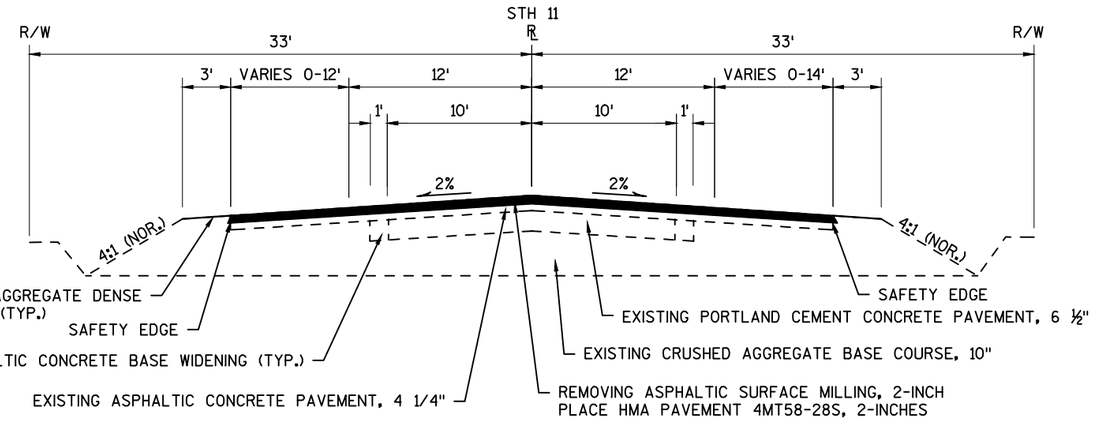
TYPICAL FINISHED SECTION
STH 11
CTH C TO WEST OF RAILROAD TRACKS
STA 43+90 - STA. 49+35



TYPICAL FINISHED SECTION
STH 11
AT RAILROAD TRACKS
STA 49+35 - STA. 49+65



TYPICAL FINISHED SECTION
STH 11
EAST OF RAILROAD TRACKS
STA 49+65 - STA. 51+60



TYPICAL FINISHED SECTION
STH 11

BYPASS LANES

SHIANNE STREET
STA 51+60 - STA. 59+50

SCHOEN ROAD
STA 69+00 - STA. 76+00

HAAG DRIVE
STA 85+00 - STA. 92+50

UNNAMED DRIVES
STA 99+00 - STA 110+00

INDUSTRIAL PARK DRIVE
STA 115+70 - STA. 118+50

YORK STREET
STA 123+00 - STA. 126+00

ALL HMA PAVEMENT LOCATIONS SHALL BE CONSTRUCTED WITH THE FOLLOWING LAYERS AND GRADATIONS:

HMA PAVEMENT

LOCATION	TYPE and MATERIAL	SIZE	DEPTH
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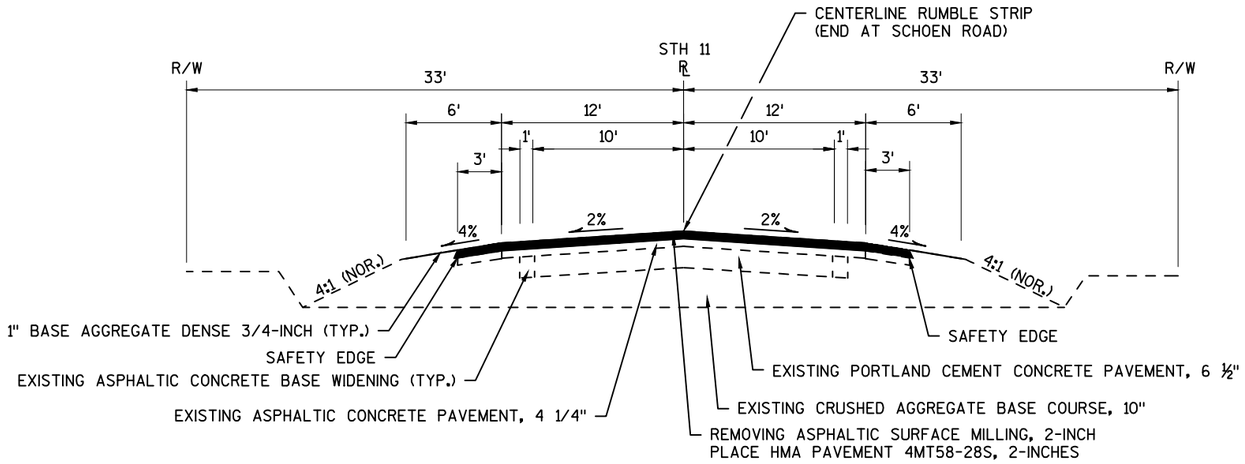


TYPICAL FINISHED SECTION

STH 11

SHIANNE STREET TO HIGH STREET

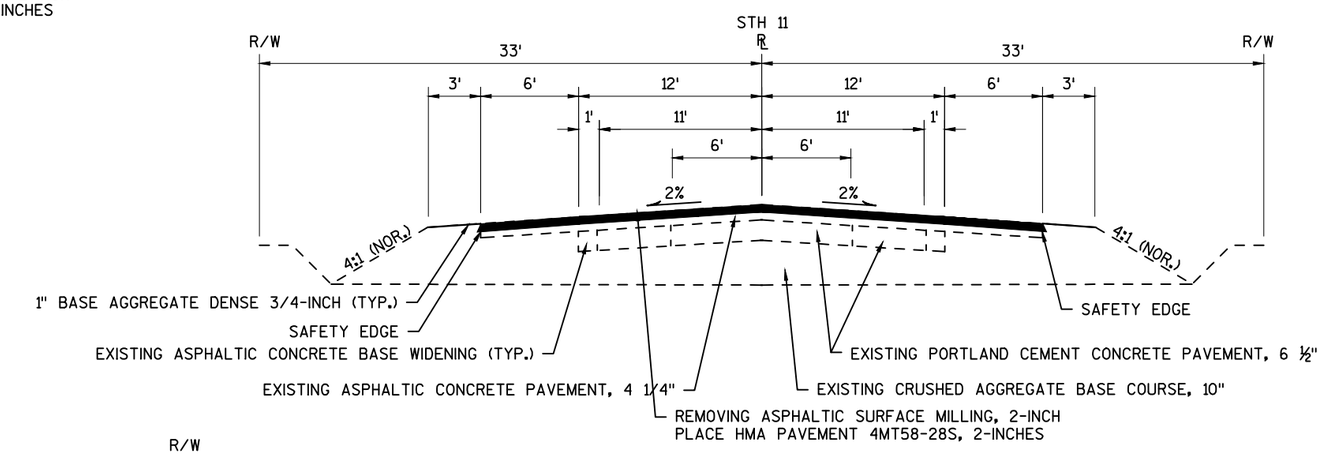
STA 59+50 - STA. 69+00

STA 76+00 - STA. 85+00

STA 92+50 - STA. 99+00

STA 110+00 - STA. 115+70

STA 118+50 - STA. 123+00

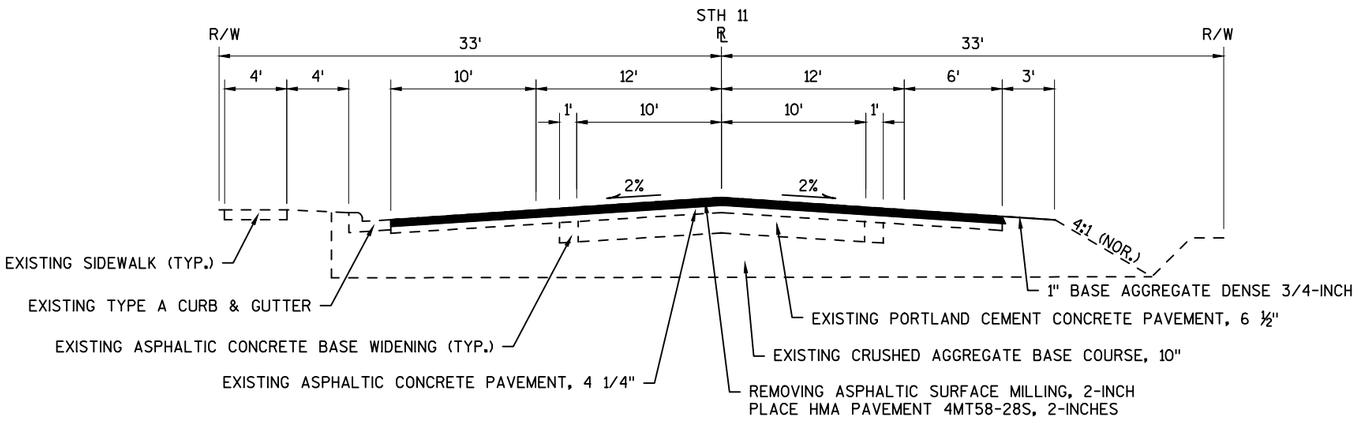


EXISTING TYPICAL SECTION

STH 11

YORK STREET TO HIGH STREET

STA 123+15 - STA. 140+75



TYPICAL FINISHED SECTION

STH 11

HIGH STREET TO VINE STREET

STA 140+75 - STA. 147+00

ALL HMA PAVEMENT LOCATIONS SHALL BE CONSTRUCTED WITH THE FOLLOWING LAYERS AND GRADATIONS:

HMA PAVEMENT

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Railroad Section & Full Depth Milling			
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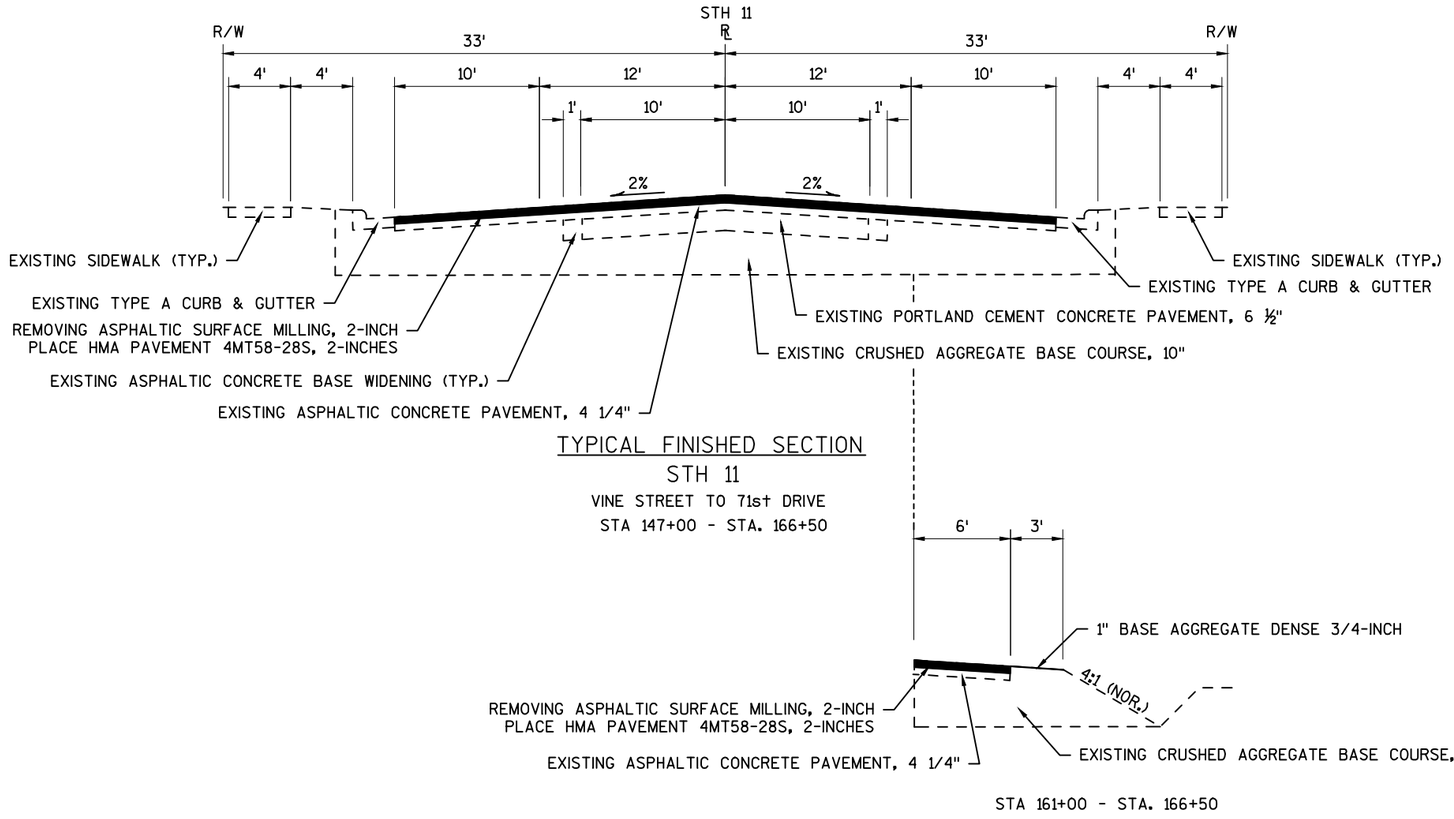
Lower Layer	4 MT 58-28 S	12.5 mm	2 1/4-INCHES



TYPICAL FINISHED SECTION

STH 11

VINE STREET TO 71st DRIVE

STA 147+00 - STA. 166+50

STA 161+00 - STA. 166+50

ALL HMA PAVEMENT LOCATIONS SHALL BE CONSTRUCTED WITH THE FOLLOWING LAYERS AND GRADATIONS:

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Railroad Section & Full Depth Milling			
Upper Layer	4 MT 58-28 S	12.5 mm	2-INCHES
Lower Layer	4 MT 58-28 S	12.5 mm	2 1/4-INCHES

2

HIGH STREET

N

140+93.07, -33.41' LT

1.13%

1.5%

7%
MAX

4'

140+79.59, -26.91' LT

140+83.77, -27.22' LT

140+87.60, -29.52' LT

140+89.65, -26.70' LT

141+29.07, -32.56' LT

SLOPE

0.5%
CROSS

SOD
LAWN

2.13%

1.9%

4'

7%
MAX

2.13%

0.375%

141+35.42, -29.44' LT

141+33.20, -25.98' LT

141+43.56, -28.15' LT

SOD
LAWN

141+39.56, -27.75' LT

REMOVE EXISTING TYPE 1 CURB RAMP,
REPLACE WITH MODIFIED TYPE 2

STH 11

141+00

PROJECT NO: 1320-20-60	HWY: STH 11	COUNTY: RACINE	CONSTRUCTION DETAILS - CURB RAMPS	SHEET 11	E

2

CENTER STREET

N

11.83'

2.4%

0.4%

144+21.26, -33.07' LT

144+59.82, -34.97' LT

0.8%

3.1%

8.57'

144+04.76, -29.02' LT

144+21.87, -28.97' LT

144+65.01, -31.36' LT

3.1%

1.1%

4'

144+09.48, -29.04' LT

144+14.92, -28.32' LT

144+63.08, -28.29' LT

144+09.59, -24.52' LT

144+14.33, -23.08' LT

144+74.37, -29.53' LT

144+70.25, -29.44' LT

EXISTING HYDRANT TO REMAIN

REMOVE AND REPLACE EXISTING MONOLITHIC TYPE 1 CURB RAMP WITH IMPROVED DETECTABLE WARNING FIELD

STH 11

144+00

145+00

PROJECT NO: 1320-20-60	HWY: STH 11	COUNTY: RACINE	CONSTRUCTION DETAILS - CURB RAMPS	SHEET 12	E

FILE NAME : N:\PDS\C3D\CAD\13202030\021002_CD.DWG
LAYOUT NAME - (01)PM

PLOT DATE : 1/27/2016 4:13 PM PLOT BY : WAGNER, SCOTT H PLOT NAME : PLOT SCALE : **********

WISDOT/CADDS SHEET 42

2

VINE STREET

N

3.9%

14.33'

0.2%

147+44.12, -38.38' LT

147+44.55, -33.55' LT

147+52.75, -33.68' LT

3.7%

1.6%

6.38'

147+52.61, -27.70' LT

147+38.72, -29.57' LT

147+48.06, -26.97' LT

147+40.86, -29.58' LT

147+46.50, -22.33' LT

147+41.20, -23.20' LT

REMOVE EXISTING MONOLITHIC TYPE 1 CURB RAMP
REPLACE WITH 2'X4' TRUNCATED DOME STYLE

147+00

STH 11

148+00

PROJECT NO: 1320-20-60	HWY: STH 11	COUNTY: RACINE	CONSTRUCTION DETAILS - CURB RAMPS	SHEET 13	E

2

2

USH 45

N

CONSTRUCTION LIMITED BY ROW

CONSTRUCTION LIMITED BY ROW

722+00

STH 11

151+00

150+72.87, 23.59' RT

150+69.84, 25.01' RT

150+62.02, 24.25' RT

150+74.16, 27.77' RT

150+78.89, 28.43' RT

150+78.07, 31.40' RT

3.8%

0.8%

3.6%

1.9%

151+35.41, 26.47' RT

151+37.81, 21.34' RT

151+38.65, 23.72' RT

151+29.86, 28.99' RT

151+32.36, 29.53' RT

151+29.90, 35.51' RT

1.1%

0.8%

9.6%

1.3%

PROJECT NO:1320-20-60	HWY: STH 11	COUNTY: RACINE	CONSTRUCTION DETAILS - CURB RAMPS	SHEET 14	E

2

NEW STREET

4'
3.80'
0.7%
5.6%

157+43.70, -41.04' LT
157+47.88, -37.19' LT
157+48.14, -30.83' LT
157+43.30, -29.02' LT
157+42.20, -24.19' LT

4'
2.1%
5.0%
3.75'

157+29.85, -28.30' LT
157+33.83, -28.29' LT
157+33.93, -24.54' LT

N

CONSTRUCTION LIMITED BY ROW
MIGHT BE ABLE TO PULL OUT JUST RAMP SLAB

157+00
STH 11
158+00

157+17.29, 22.65' RT
157+14.28, 24.33' RT
157+19.40, 26.92' RT
157+24.01, 26.93' RT
157+24.74, 32.62' RT

0.8%
0.9%

157+82.56, 24.16' RT
157+86.67, 24.22' RT
157+90.81, 24.14' RT
157+82.53, 28.12' RT
157+90.73, 28.15' RT

NEW STREET

PROJECT NO:1320-20-60	HWY: STH 11	COUNTY: RACINE	CONSTRUCTION DETAILS - CURB RAMPS	SHEET 15	E

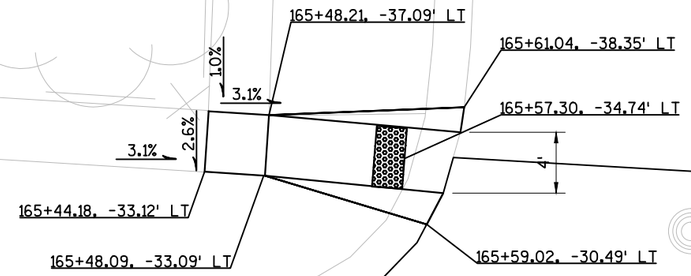
FILE NAME : N:\PDS\C3D\CAD\13202030\021002_CD.DWG
LAYOUT NAME - (01)PM

PLOT DATE : 1/27/2016 4:13 PM PLOT BY : WAGNER, SCOTT H PLOT NAME : PLOT SCALE : 1 IN:10 FT

2

71st DRIVE

N



MH

165+00

STH 11

166+00

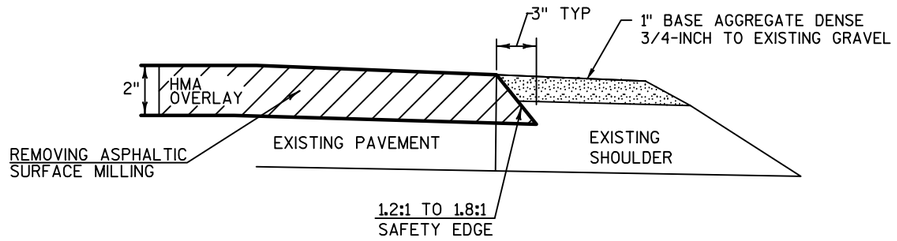
PROJECT NO: 1320-20-60	HWY: STH 11	COUNTY: RACINE	CONSTRUCTION DETAILS - CURB RAMPS	SHEET 16	E

FILE NAME : N:\PDS\C3D\CAD\13202030\021002_CD.DWG
LAYOUT NAME - (01)PM

PLOT DATE : 1/27/2016 4:13 PM PLOT BY : WAGNER, SCOTT H PLOT NAME : PLOT SCALE : **********

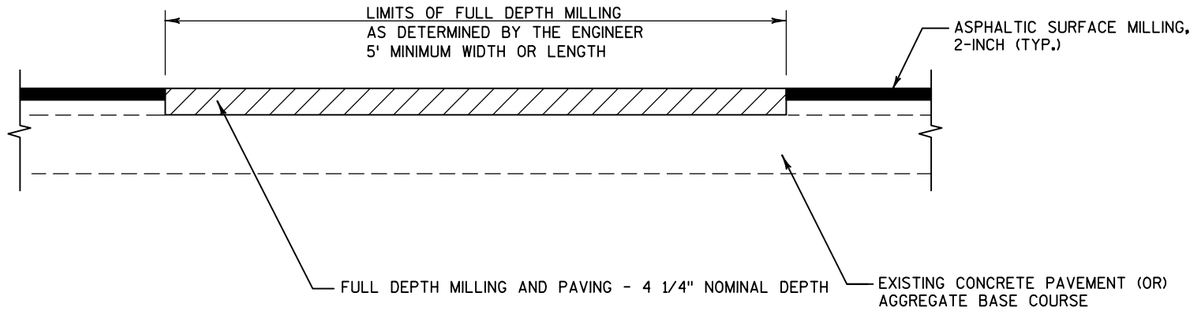
WISDOT/CADDS SHEET 42

2



PAVEMENT SAFETY EDGE ON HMA OVERLAY

NOTE: PAVEMENT SAFETY EDGE WILL BE PAID AS HMA PAVEMENT TYPE E-3.
SEE S.D.D. SAFETY EDGE

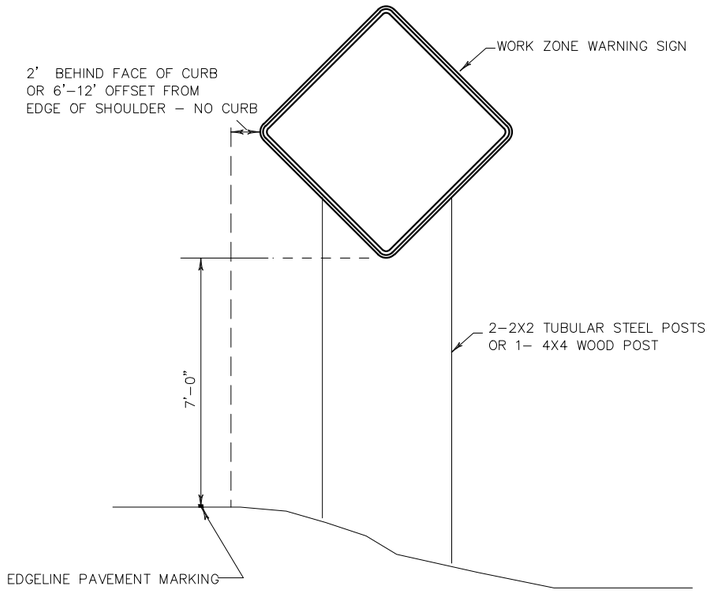


FULL DEPTH MILLING

ALL HMA PAVEMENT LOCATIONS SHALL BE CONSTRUCTED WITH THE FOLLOWING LAYERS AND GRADATIONS:

HMA PAVEMENT

LOCATION	TYPE and MATERIAL	SIZE	DEPTH
STH 11 Mainline	4 MT 58-28 S	12.5 mm	2-INCHES
Railroad Section & Full Depth Milling			
Upper Layer	4 MT 58-28 S	12.5 mm	2-INCHES
Lower Layer	4 MT 58-28 S	12.5 mm	2 1/4-INCHES

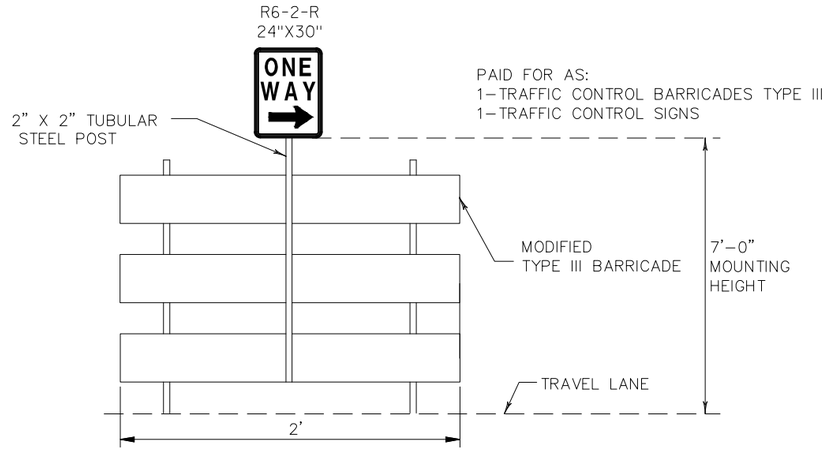


TYPICAL TEMPORARY TRAFFIC CONTROL DETAIL
MOUNTING ON FIXED SUPPORT

LONG TERM
7 DAYS OR MORE

GENERAL NOTES FOR TRAFFIC CONTROL

1. TRAFFIC CONTROL DRUMS IN TAPERS, SHALL BE EQUIPPED WITH WARNING LIGHTS, TYPE "C", ONE WAY LIGHTS IN TAPERS ONLY, UNLESS OTHERWISE SHOWN.
2. SIGN LOCATIONS ARE APPROXIMATE. THE ACTUAL LOCATION SPACING MAY BE ADJUSTED AS DIRECTED BY THE ENGINEER TO MEET FIELD CONDITIONS.
3. "WO" SIGNS ARE THE SAME AS "W" SIGNS EXCEPT THE BACKGROUND IS REFLECTIVE ORANGE.
4. ALL TRAFFIC CONTROL SIGNS SHALL BE 48" X 48" UNLESS OTHERWISE NOTED IN THE PLANS.
5. BARRICADE STRIPES ARE TO BE SLOPED DOWNWARD IN THE DIRECTION OF TRAFFIC FLOW.



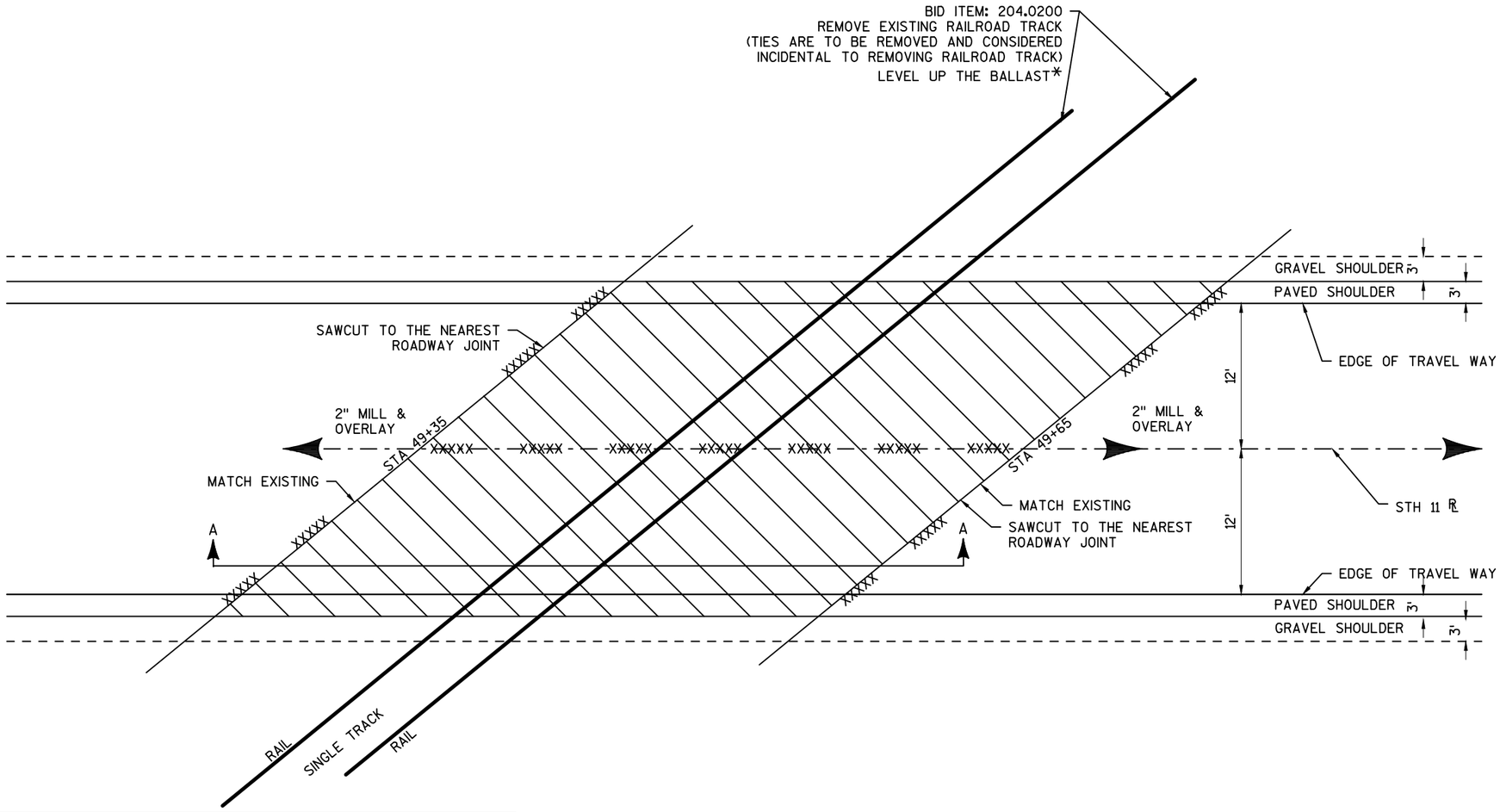
MODIFIED TYPE III BARRICADE

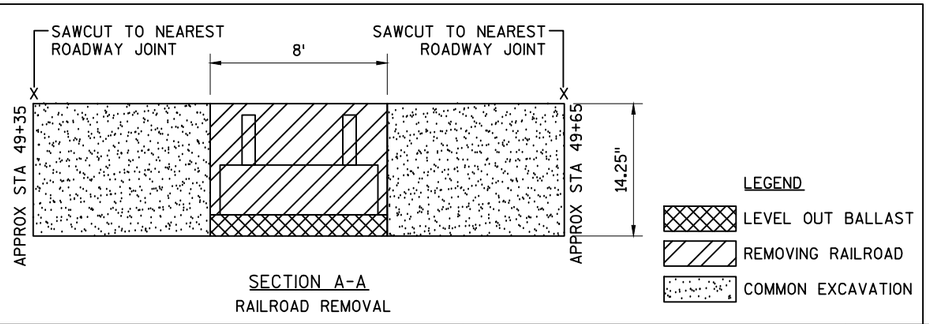
LEGEND

4 1/4" OF ASPHALTIC PAVEMENT OVER 10" OF CRUSHED AGGREGATE BASE COURSE, 1 1/4"

* DO NOT REMOVE BALLAST

XXXXX SAWCUT





SECTION A-A
RAILROAD REMOVAL

PAVING DETAIL AT RAILROAD

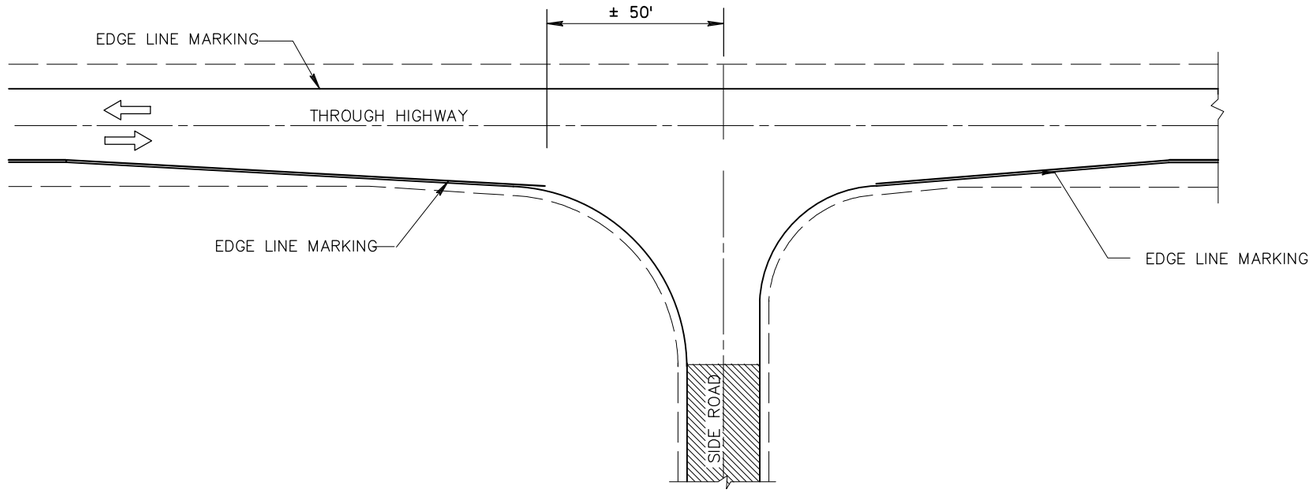
STA 49+35 - STA 49+65
NOT TO SCALE

NOTES:

CONTRACTOR SHALL REMOVE THE RAILS TO THE NEAREST RAIL JOINT ON EITHER SIDE OF THE ROADWAY - APPROXIMATELY 10' FROM THE EDGE OF PAVEMENT.

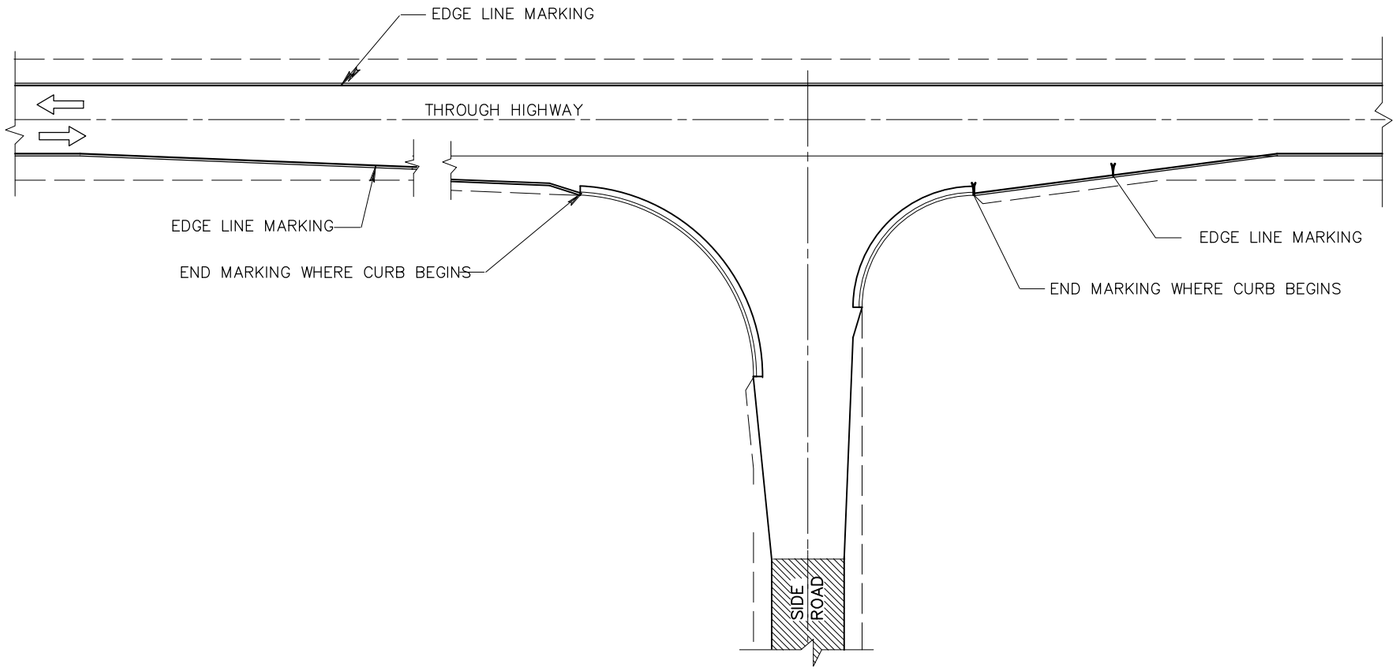
PLEASE SEE "PLAN DETAIL AND EROSION CONTROL SHEETS FOR KNOWN WETLANDS AND RECOMMENDED EROSION CONTROL DEVICES IN THIS AREA.

2



MINOR INTERSECTION WITHOUT CURBS

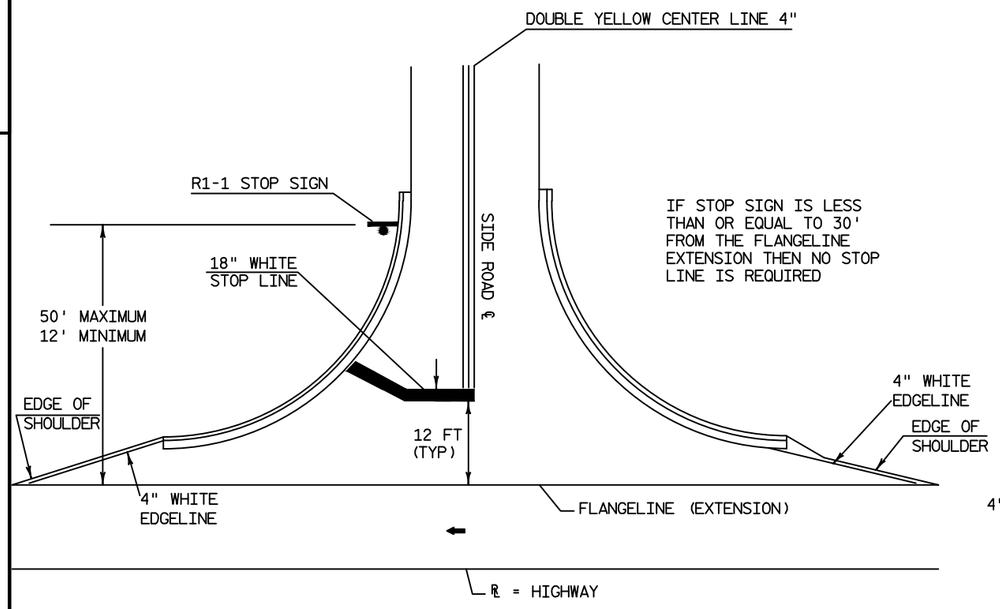
(TYPICAL MARKING)



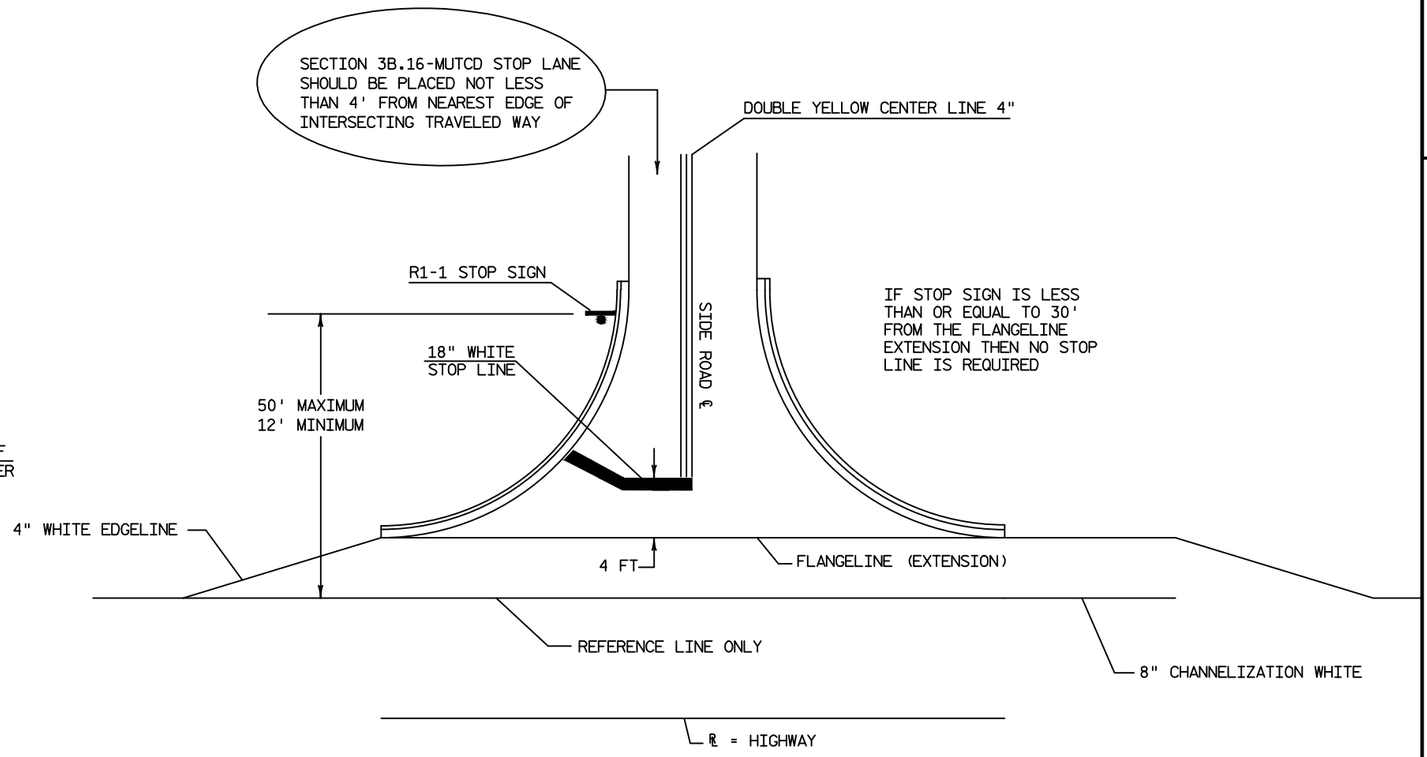
MINOR INTERSECTION WITH CURBS

(TYPICAL MARKING)

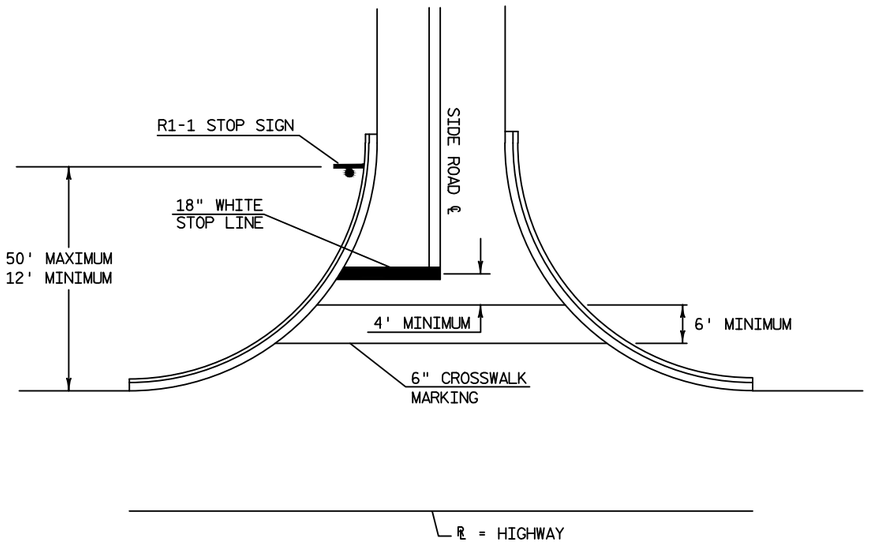
RAILROAD REMOVAL



TYPICAL PAVEMENT MARKING FOR SIDEROADS



TYPICAL PAVEMENT MARKING FOR SIDEROADS WITH RIGHT TURN LANE



TYPICAL PAVEMENT MARKING FOR SIDEROADS WITH CROSSWALK MARKING

NOTES:

18-INCH STOP LINES MAY BE DELETED OR ADDED BY THE PROJECT ENGINEER BASED ON VISIBILITY AND SIGHT LINES.

STOP LINES REQUIRED WHERE:

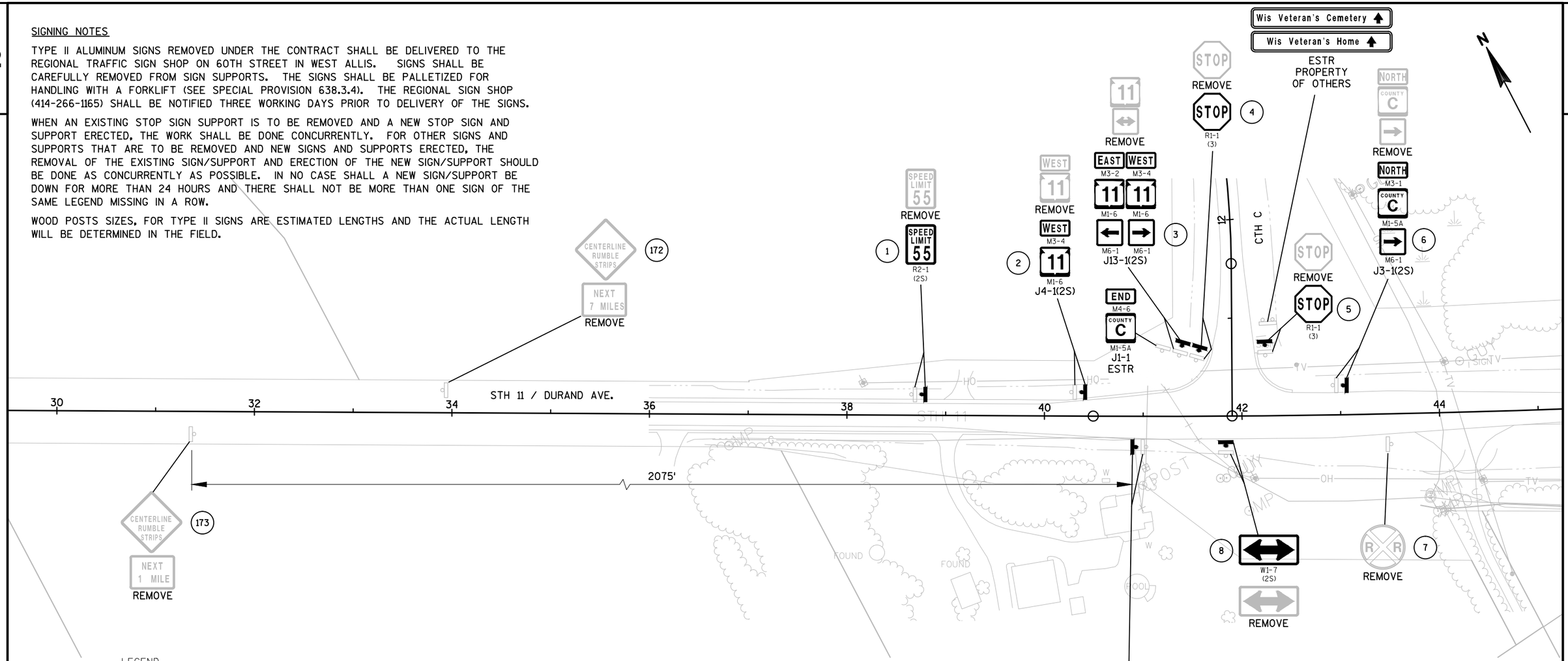
- CROSSWALK MARKINGS EXIST OR BEING PROVIDED
- LARGE RADII
- OFFSET LEFT TURNS WHERE STOP BAR FOR LEFT TURN IS SET BACK FROM THRU MOVEMENT.

SIGNING NOTES

TYPE II ALUMINUM SIGNS REMOVED UNDER THE CONTRACT SHALL BE DELIVERED TO THE REGIONAL TRAFFIC SIGN SHOP ON 60TH STREET IN WEST ALLIS. SIGNS SHALL BE CAREFULLY REMOVED FROM SIGN SUPPORTS. THE SIGNS SHALL BE PALLETIZED FOR HANDLING WITH A FORKLIFT (SEE SPECIAL PROVISION 638.3.4). THE REGIONAL SIGN SHOP (414-266-1165) SHALL BE NOTIFIED THREE WORKING DAYS PRIOR TO DELIVERY OF THE SIGNS.

WHEN AN EXISTING STOP SIGN SUPPORT IS TO BE REMOVED AND A NEW STOP SIGN AND SUPPORT ERECTED, THE WORK SHALL BE DONE CONCURRENTLY. FOR OTHER SIGNS AND SUPPORTS THAT ARE TO BE REMOVED AND NEW SIGNS AND SUPPORTS ERECTED, THE REMOVAL OF THE EXISTING SIGN/SUPPORT AND ERECTION OF THE NEW SIGN/SUPPORT SHOULD BE DONE AS CONCURRENTLY AS POSSIBLE. IN NO CASE SHALL A NEW SIGN/SUPPORT BE DOWN FOR MORE THAN 24 HOURS AND THERE SHALL NOT BE MORE THAN ONE SIGN OF THE SAME LEGEND MISSING IN A ROW.

WOOD POSTS SIZES, FOR TYPE II SIGNS ARE ESTIMATED LENGTHS AND THE ACTUAL LENGTH WILL BE DETERMINED IN THE FIELD.



LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- VMS — VARIABLE MESSAGE SIGN
- EXISTING LIGHT OR SIGNAL POLE
- SIGN BRIDGE
- CANTILEVER SIGN BRIDGE
- DELINEATOR - 60' SPACING WHITE/RIGHT YELLOW/LEFT
- XXX — DENOTES SIGN NUMBER
- (XX) INDICATES SIGN SIZE

NOTE

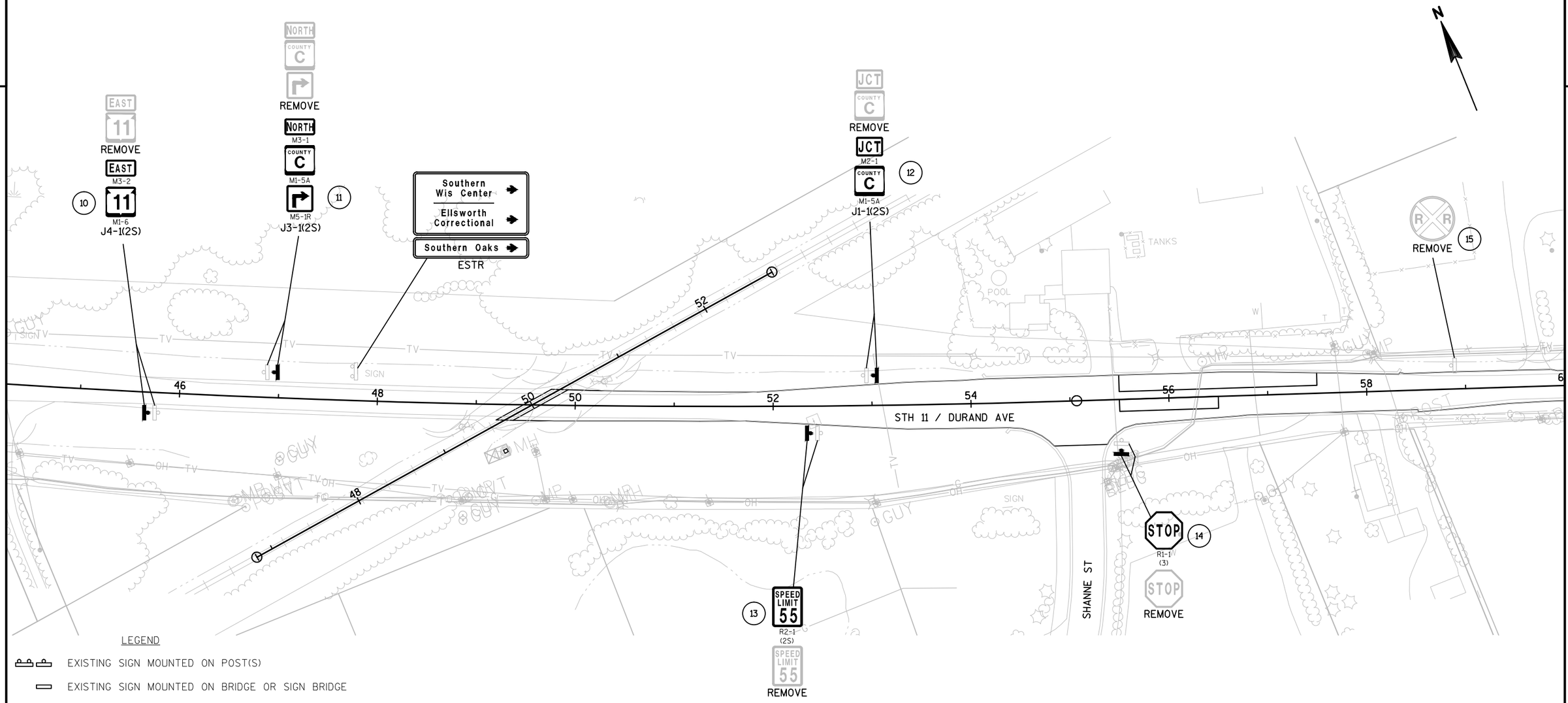
CONTRACTOR SHALL NOTIFY VILLAGE TO REMOVE AND RELOCATE STREET NAME SIGNS. DO NOT PLACE STREET NAME SIGNS ON SAME POST AS STOP SIGN.

LOCATE NO PASSING PENNANTS BASE ON ESTABLISHING NO PASSING ZONES PAY ITEM.

SHEET 1 OF 13

PROJECT NO: 1320-20-60	HWY: STH 11	COUNTY: RACINE	PERMANENT SIGNING PLAN	SHEET 22	E

2



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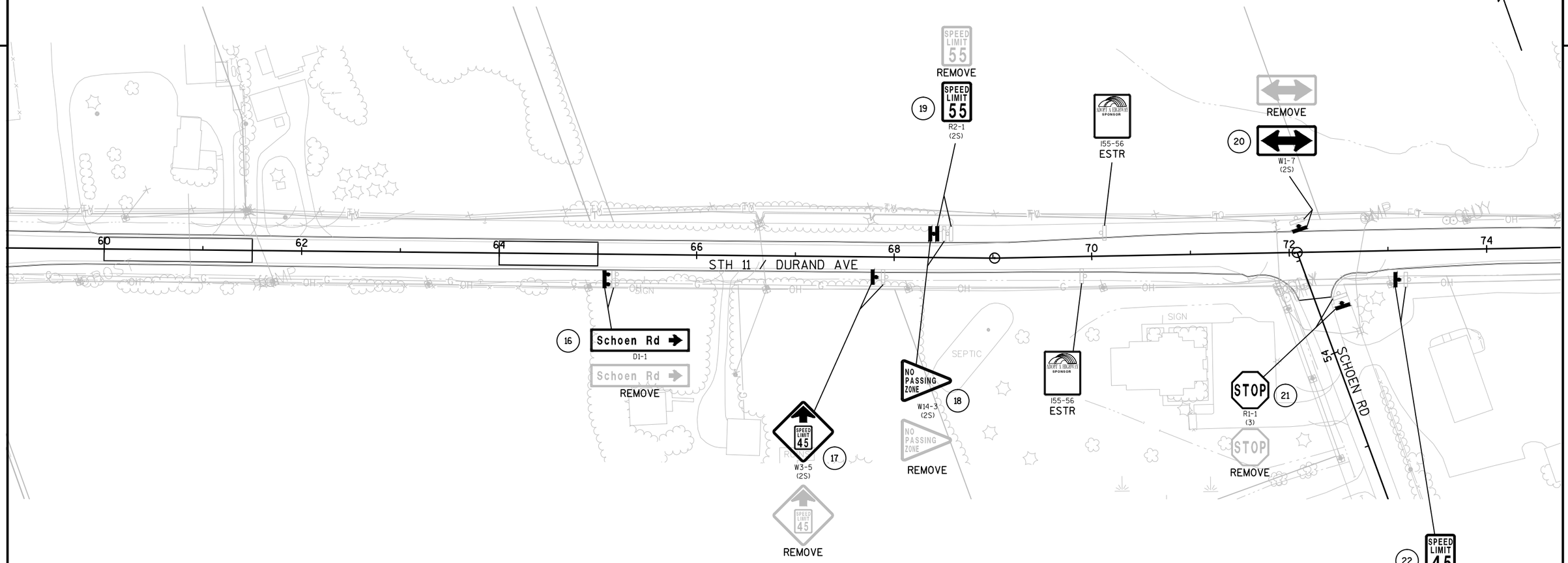
2



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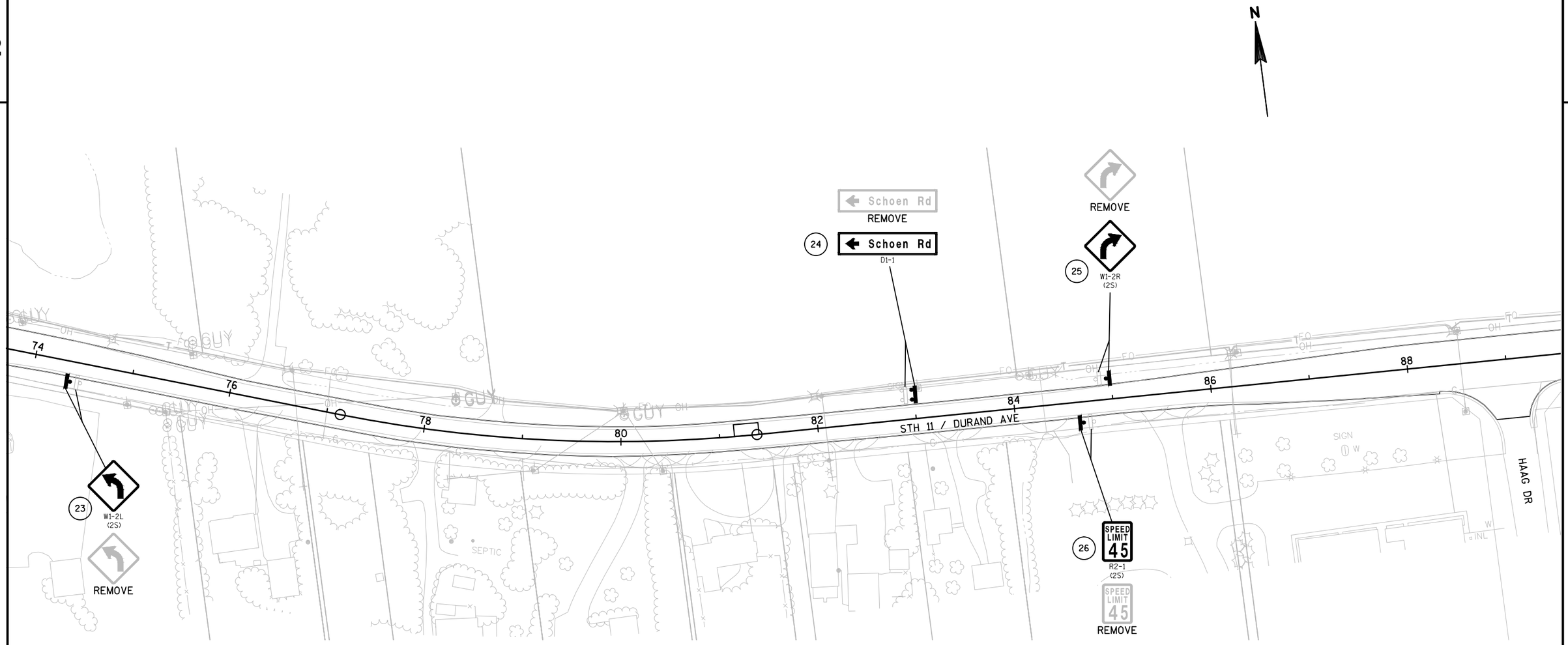
2



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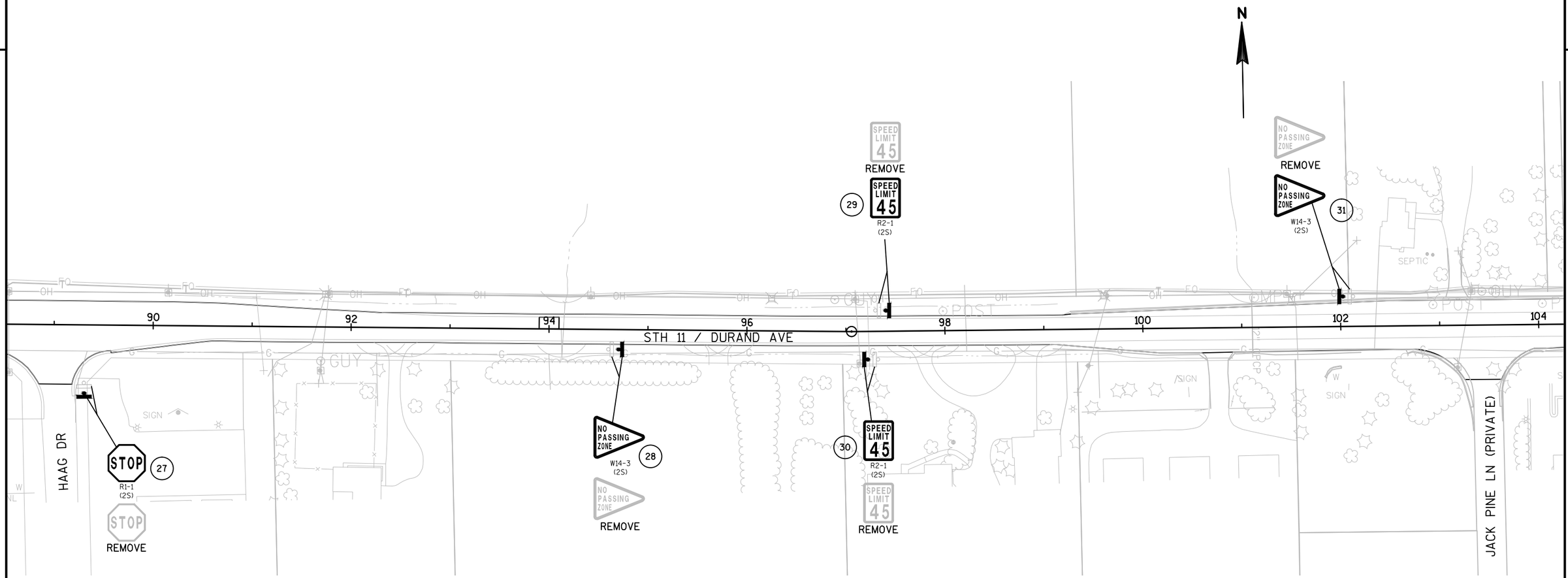
LOCATE NO PASSING PENNANTS BASE ON ESTABLISHING NO PASSING ZONES PAY ITEM.

2



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LOCATE NO PASSING PENNANTS BASE ON ESTABLISHING NO PASSING ZONES PAY ITEM.

2

N

104 106 108 110 112 114 116 118

STH 11 / DURAND AVE

INDUSTRIAL PARK DR

Union Grove
POPULATION 4,915
I2-3
ESTR

SPEED LIMIT 35
R2-1
ESTR

SPEED LIMIT 45
REMOVE

32
SPEED LIMIT 45
R2-1 (2S)

SPEED LIMIT 35
R2-1
ESTR

SPEED LIMIT 35
REMOVE

33
SPEED LIMIT 35
R2-1 (2S)

STREET NAME SIGNS SEE NOTE

STOP
REMOVE

36
STOP
R1-1 (3)

VILLAGE SNOW EMER.
MOVE BY OTHERS (VILLAGE) SEPARATE POST

NO PASSING ZONE
W14-3 (2S)
35

NO PASSING ZONE
REMOVE

W11-2 (3)
HANDICAP AHEAD
W16-9P (3)
60
61
62

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
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SHEET 6 OF 13

PROJECT NO:1320-20-60	HWY: STH 11	COUNTY: RACINE	PERMANENT SIGNING PLAN	SHEET 27	E

2

N

STREET NAME SIGNS SEE NOTE

STOP
REMOVE
40 STOP R1-1 (3)

HANDICAP
REMOVE FROM LIGHT POLE
41 W11-2 (3)
RRFB
42 HANDICAP
43 W16-7L (3)
43A R10-25(2S)
STH 125+00
SEE DETAIL

YORK ST

SPEED LIMIT 35
REMOVE
39 SPEED LIMIT 35 R2-1 (3)

WEST 11
REMOVE
38 WEST M3-4 11 M1-6
J4-1(2S)

STOP SCHOOL BUS FLASHING RED LIGHTS
REMOVE
37 STOP SCHOOL BUS FLASHING RED LIGHTS R59-51 (2S)

169 SPEED LIMIT 35 R2-1 (3)

SPEED LIMIT 35
REMOVE
50 SPEED LIMIT 35 R2-1 (3)

HANDICAP
AHEAD
REMOVE
44 W11-2 (3)
45 HANDICAP
46 AHEAD W16-9P (3)

STH 11 / DURAND AVE

120 122 124 126 128 130 132

64 SPEED LIMIT 35 R2-1 (3)
SPEED LIMIT 35
REMOVE

63 NO PARKING ANY TIME R7-1-L (2S)
NO PARKING ANY TIME
REMOVE

HANDICAP
AHEAD
49
REMOVE

59 NO PARKING ANY TIME R7-1-D (2S)
NO PARKING ANY TIME
REMOVE

58 NO PARKING ANY TIME R7-1-R (2S)
NO PARKING ANY TIME
REMOVE

HANDICAP
57
REMOVE

54 W11-2 (3)
RRFB
55 HANDICAP
56 W16-7L (3)
56A R10-25(2S)
STA 124+80
SEE DETAIL

51 166 W11-2 (3)
RRFB
52 167 HANDICAP
53 168 W16-7R (3)
53A 168A R10-25(2S)
SEE DETAIL

47 48 SPEED LIMIT 30 R2-1 (3)
SPEED LIMIT 30
REMOVE

LEGEND

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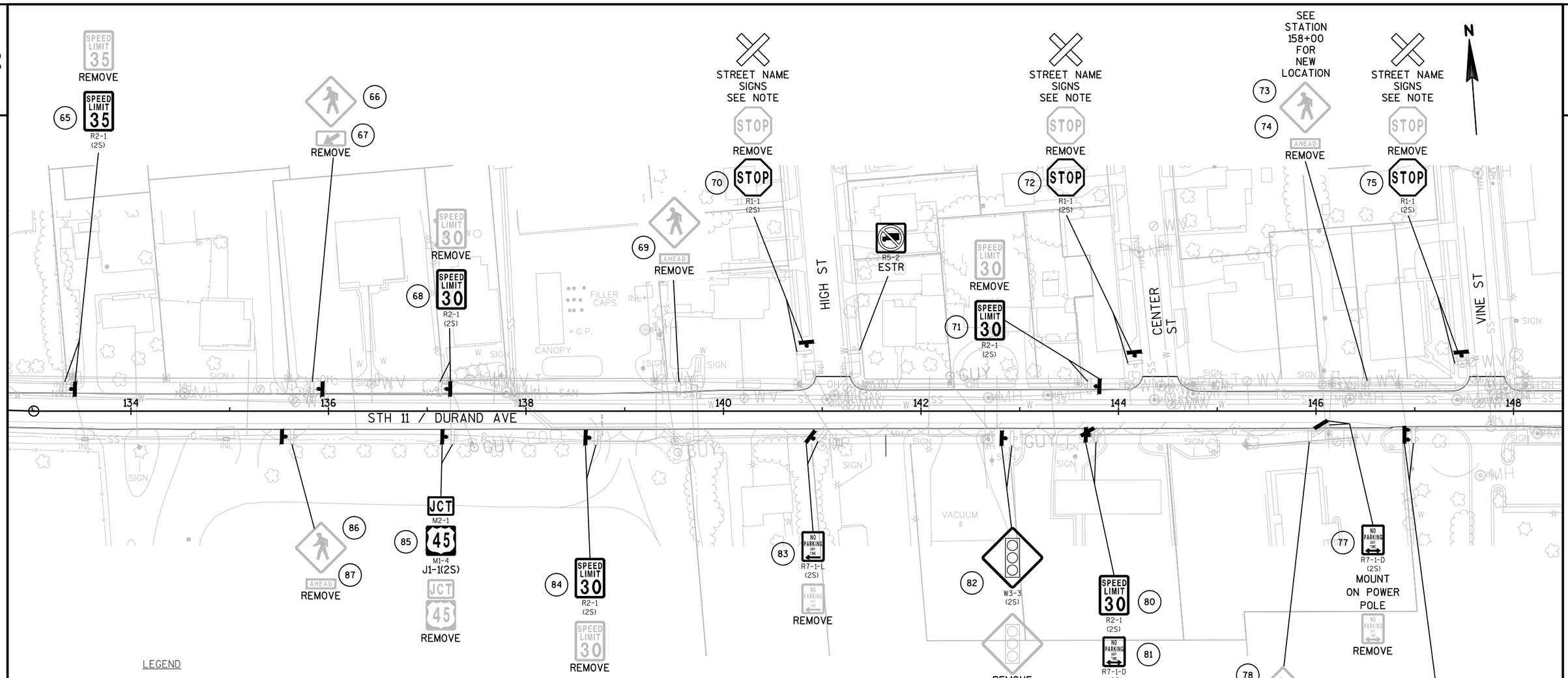
LOCATE NO PASSING PENNANTS BASE ON ESTABLISHING NO PASSING ZONES PAY ITEM.

SHEET 7 OF 13

PROJECT NO: 1320-20-60	HWY: STH 11	COUNTY: RACINE	PERMANENT SIGNING PLAN	SHEET 28	E



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SHEET 8 OF 13

PROJECT NO: 1320-20-60	HWY: STH 11	COUNTY: RACINE	PERMANENT SIGNING PLAN	SHEET 29 E

2

N

Main St
POST MOUNTED STREET NAME SIGN BY CITY

USH 45 / MAIN ST

11 Durand Ave
M1-94S
MOUNT ON MAST ARM
100

45 Main St
M1-94H
MOUNT ON MAST ARM
101

11 Durand Ave
M1-94H
MOUNT ON MAST ARM
103

STH 11 / DURAND AVE

148 150 152 154 722

88 SPEED LIMIT 30 R2-1 (2S) MOUNT ON LIGHT POLE
89 WEST 11 M3-4 11 M1-6 J4-1(2S)
90 SOUTH NORTH M3-3 M3-1 45 45 M1-4 M1-4 M6-1 M6-1 J3-2(2S) MOUNT ON SIGNAL POLE
91 STOP R1-1F (3) MOUNT ON SIGNAL POLE
92 WEST EAST M3-4 M3-2 11 11 M1-6 M1-6 M6-1 M6-1 J3-2(2S) MOUNT ON SIGNAL POLE
93 STOP R1-1F (3) MOUNT ON SIGNAL POLE
94 WATCH FOR WIDE TURNING TRUCKS W8-73 (2M)
95 ONLY R3-8-A (2S)
96 NO PARKING ANY TIME R7-1-L (2S)
97 SPEED LIMIT 30 R2-1 (2S) MOUNT ON LIGHT POLE
98 EAST M3-2 11 M1-6 J4-1(2S)
99 STOP R1-1F (3) MOUNT ON SIGNAL POLE
104 EAST WEST M3-2 M3-4 11 11 M1-6 M1-6 M6-1 M6-1 J3-2(2S) MOUNT ON SIGNAL POLE
106 NORTH SOUTH M3-1 M3-3 45 45 M1-4 M1-4 M6-1 M6-1 J3-2(2S) MOUNT ON SIGNAL POLE
107 WATCH FOR WIDE TURNING TRUCKS W8-73 (2M)
108 LEFT LANE MUST TURN LEFT R3-7-L (3)
109 ONLY R3-8-A (2S)

REMOVE

170 W11-2 (3)
171 AHEAD W16-9P (3)
105 STOP R1-1F (3) MOUNT ON SIGNAL POLE
Business District Library ESTR

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- VMS — VARIABLE MESSAGE SIGN
- EXISTING LIGHT OR SIGNAL POLE
- SIGN BRIDGE
- CANTILEVER SIGN BRIDGE
- DELINEATOR - 60' SPACING WHITE/RIGHT YELLOW/LEFT
- (XXX) DENOTES SIGN NUMBER

(XX) INDICATES SIGN SIZE

NOTE

CONTRACTOR SHALL NOTIFY VILLAGE TO REMOVE AND RELOCATE STREET NAME SIGNS. DO NOT PLACE STREET NAME SIGNS ON SAME POST AS STOP SIGN.

LOCATE NO PASSING PENNANTS BASE ON ESTABLISHING NO PASSING ZONES PAY ITEM.

SHEET 9 OF 13

PROJECT NO: 1320-20-60	HWY: STH 11	COUNTY: RACINE	PERMANENT SIGNING PLAN	SHEET 30	E

FILE NAME : N:\PDS\C3D\CAD\13202030\SIGN\023201_PS.DWG PLOT DATE : 1/19/2016 7:54 AM PLOT BY : WAGNER, SCOTT H PLOT NAME : PLOT SCALE : 1 IN:40 FT

2

2

N

STH 11 / DURAND AVE

154 156 158 160 162 164 166 168

NEW ST

71ST DR

EXISTING BEACON

110 WEST 11 M3-4 M1-6 M6-1 J4-1(2S)

REMOVE WEST 11 M3-4 M1-6 M6-1 J4-1(2S)

111 LEFT LANE MUST TURN LEFT R3-7-L (3)

REMOVE LEFT LANE MUST TURN LEFT R3-7-L (3)

113 SOUTH 45 M3-3 M1-4 M5-1L J2-2(2S) NORTH 45 M3-1 M1-4 M5-1R J2-2(2S)

REMOVE SOUTH 45 M3-3 M1-4 NORTH 45 M3-1 M1-4

MOVE BY OTHERS PROPERTY OF VILLAGE Neighborhood Watch

STOP 114 R1-1 (3)

REMOVE STOP R1-1 (3)

73 W11-2 (3)

74 W16-7L (3)

NO PASSING ZONE 116 W14-3 (2S)

REMOVE NO PASSING ZONE W14-3 (2S)

NO PARKING HERE TO CORNER 115 R7-51-L (2S)

REMOVE NO PARKING HERE TO CORNER R7-51-L (2S)

117 SPEED LIMIT 30 R2-1 (2S)

118 END SCHOOL ZONE S5-2 (2S)

119 JCT 45 M2-1 M1-4 J4-1(2S)

REMOVE JCT 45 M2-1 M1-4 J4-1(2S)

SPEED LIMIT 30 REMOVE 120 SPEED LIMIT 30 R2-1 (2S)

REMOVE 121 S1-1 (2S) 122 S16-7L (2S)

MOUNT ON EXISTING BEACON POLE

STOP R1-1 ESTR

STOP REMOVE 123 STOP R1-1 (3)

REMOVE 124 W5-52R (2S)

NO MOTOR VEHICLES R5-3 ESTR

125 SCHOOL SPEED LIMIT 15 WHEN CHILDREN ARE PRESENT REMOVE

126 S1-1 (2S) 127 S16-7L (2S) MOUNT ON EXISTING BEACON POLE

128 AHEAD REMOVE

129 SCHOOL SPEED LIMIT 20 WHEN CHILDREN ARE PRESENT S4-5I (2S)

130 S1-1 (2S)

131 AHEAD S16-9P (2S)

132 FINES HIGHER R2-6P (2S)

133 NO PARKING HERE TO CORNER R7-51-R (2S)

NO PARKING HERE TO CORNER REMOVE

134 SPEED LIMIT 30 R2-1 (2S)

SPEED LIMIT 30 REMOVE

135 STOP R1-1 (3)

STOP REMOVE

STREET NAME SIGNS SEE NOTE

136 AHEAD REMOVE

78 W11-2 (3)

79 W16-7L (3)

137 NO PASSING ZONE W14-3 (2S)

NO PASSING ZONE REMOVE

138 SCHOOL SPEED LIMIT 20 WHEN CHILDREN ARE PRESENT REMOVE

112 W3-3 (2S)

REMOVE

RUINS

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- VMS VARIABLE MESSAGE SIGN
- EXISTING LIGHT OR SIGNAL POLE
- SIGN BRIDGE
- CANTILEVER SIGN BRIDGE
- DELINEATOR - 60' SPACING WHITE/RIGHT YELLOW/LEFT
- (XXX) DENOTES SIGN NUMBER
- (XX) INDICATES SIGN SIZE

NOTE

CONTRACTOR SHALL NOTIFY VILLAGE TO REMOVE AND RELOCATE STREET NAME SIGNS. DO NOT PLACE STREET NAME SIGNS ON SAME POST AS STOP SIGN.

LOCATE NO PASSING PENNANTS BASE ON ESTABLISHING NO PASSING ZONES PAY ITEM.

SHEET 10 OF 13

PROJECT NO: 1320-20-60	HWY: STH 11	COUNTY: RACINE	PERMANENT SIGNING PLAN	SHEET 31	E

2

2

N

14TH AVE

REMOVE
156 139
157 140
S1-1
(2S)
S16-7L
(2S)

REMOVE
152 141
153 142
S1-1
(2S)
S16-7L
(2S)

STOP
REMOVE
STOP
143
R1-1
(3)

SCHOOL
SPEED LIMIT
20
WHEN CHILDREN ARE PRESENT
REMOVE
145
SCHOOL
SPEED LIMIT
20
WHEN CHILDREN ARE PRESENT
S4-51
(2S)

AHEAD
FINES HIGHER
REMOVE
146
S1-1
(2S)
147
AHEAD
S16-9P
(2S)
148
FINES HIGHER
R2-6P
(2S)

168 170 172 174 176 178 180 182

STH 11 / DURAND AVE

STH 11

SIGN
SIGN
SIGN
MH
MH
MH
INL
FOOTBRIDGE
SCHUMANN DR

STOP
SCHOOL BUS FLASHING RED LIGHTS
155
R59-51
(2S)
STOP
SCHOOL BUS FLASHING RED LIGHTS
REMOVE

NO PASSING ZONE
154
W14-3
(2S)
NO PASSING ZONE
REMOVE

NO PASSING ZONE
144
W14-3
(2S)
NO PASSING ZONE
REMOVE

STREET NAME SIGNS SEE NOTE

151
STOP
R1-1
(3)
STOP
REMOVE

SPEED LIMIT
35
149
R2-1
(2S)
END SCHOOL ZONE
150
S5-2
(2S)
SPEED LIMIT
35
END SCHOOL ZONE
REMOVE

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- VMS — VARIABLE MESSAGE SIGN
- EXISTING LIGHT OR SIGNAL POLE
- SIGN BRIDGE
- CANTILEVER SIGN BRIDGE
- DELINEATOR - 60' SPACING WHITE/RIGHT YELLOW/LEFT
- (XXX) DENOTES SIGN NUMBER

(XX) INDICATES SIGN SIZE

NOTE

CONTRACTOR SHALL NOTIFY VILLAGE TO REMOVE AND RELOCATE STREET NAME SIGNS. DO NOT PLACE STREET NAME SIGNS ON SAME POST AS STOP SIGN.

LOCATE NO PASSING PENNANTS BASE ON ESTABLISHING NO PASSING ZONES PAY ITEM.

SHEET 11 OF 13

PROJECT NO: 1320-20-60	HWY: STH 11	COUNTY: RACINE	PERMANENT SIGNING PLAN	SHEET 32	E

2

N

REMOVE

W3-3
(2S)

158

REMOVE

WATCH FOR WIDE TURNING TRUCKS

W8-73
(2S)

159

REMOVE

WEST | EAST
11 | 11

WEST | EAST
M3-4 | M3-2
11 | 11
M1-6 | M1-6
M5-1L | M5-1R
J2-2(2S)

160

REMOVE

SOUTH
45

SOUTH
M3-3
45
M1-4
J4-1(2S)

163

718

USH 45 / MAIN ST

720

722

STH 11 / DURAND AVE

150

161

LEFT LANE MUST TURN LEFT

R3-7-L
(3)

REMOVE

NORTH
M3-1
45
M1-4

162

M6-1
J3-1(2S)

NORTH
45

REMOVE

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- VMS — VARIABLE MESSAGE SIGN
- EXISTING LIGHT OR SIGNAL POLE
- SIGN BRIDGE
- CANTILEVER SIGN BRIDGE
- DELINEATOR - 60' SPACING
  WHITE/RIGHT YELLOW/LEFT
- XXX — DENOTES SIGN NUMBER
- (XX) INDICATES SIGN SIZE

NOTE

CONTRACTOR SHALL NOTIFY VILLAGE TO REMOVE AND RELOCATE STREET NAME SIGNS. DO NOT PLACE STREET NAME SIGNS ON SAME POST AS STOP SIGN.

LOCATE NO PASSING PENNANTS BASE ON ESTABLISHING NO PASSING ZONES PAY ITEM.

SHEET 12 OF 13

PROJECT NO: 1320-20-60	HWY: STH 11	COUNTY: RACINE	PERMANENT SIGNING PLAN	SHEET 33 E

2

N

SOUTH
M3-3
45
M1-4
M6-1
LEFT LANE MUST TURN LEFT
R3-7-L
ESTR

WATCH FOR WIDE TURNING TRUCKS
W8-73
ESTR

EAST
M3-2
11
M1-6
M5-1L
WEST
M3-4
11
M1-6
M5-1R
J2-2(2S)
ESTR

USH 45 / MAIN ST

722 724 726

FILLER CAPS

DURAND AVE

STH 11 / DURAND AVE

SPEED LIMIT 25
R2-1
ESTR

S1-1
S16-7L
ESTR

164
S1-1
(2S)

165
AHEAD
S16-9P
(2S)

MOUNT ON POWER POLE

AHEAD
REMOVE

NOTE

CONTRACTOR SHALL NOTIFY VILLAGE TO REMOVE AND RELOCATE STREET NAME SIGNS. DO NOT PLACE STREET NAME SIGNS ON SAME POST AS STOP SIGN.

LOCATE NO PASSING PENNANTS BASE ON ESTABLISHING NO PASSING ZONES PAY ITEM.

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- VMS — VARIABLE MESSAGE SIGN
- EXISTING LIGHT OR SIGNAL POLE
- SIGN BRIDGE
- CANTILEVER SIGN BRIDGE
- DELINEATOR - 60' SPACING WHITE/RIGHT YELLOW/LEFT
- XXX — DENOTES SIGN NUMBER
- (XX) INDICATES SIGN SIZE

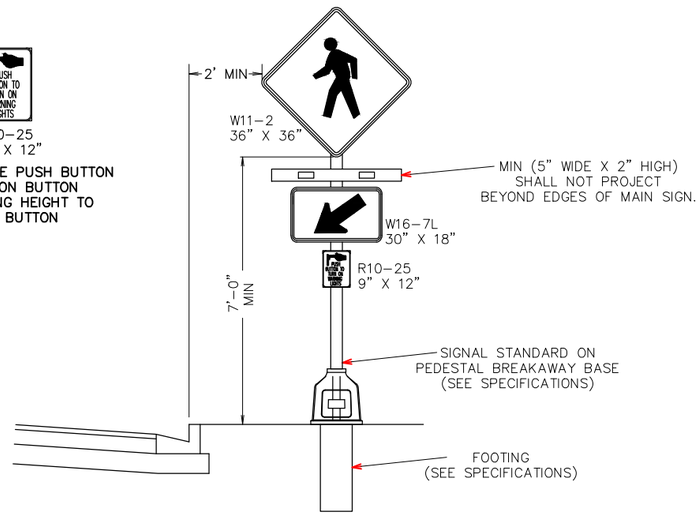
SHEET 13 OF 13

PROJECT NO: 1320-20-60	HWY: STH 11	COUNTY: RACINE	PERMANENT SIGNING PLAN	SHEET 34	E

2

R10–25
9" X 12"

LOCATE ABOVE PUSH BUTTON
ACTIVATION BUTTON
4' MOUNTING HEIGHT TO
PUSH BUTTON



RAPID RECTANGULAR
FLASHING BEACON
URBAN LOCATION

RECTANGULAR RAPID FLASHING BEACON

PROJECT NO:1320-20-60	HWY: STH 11	COUNTY: RACINE	FLASHER SIGNING ASSEMBLY	SHEET 35	E

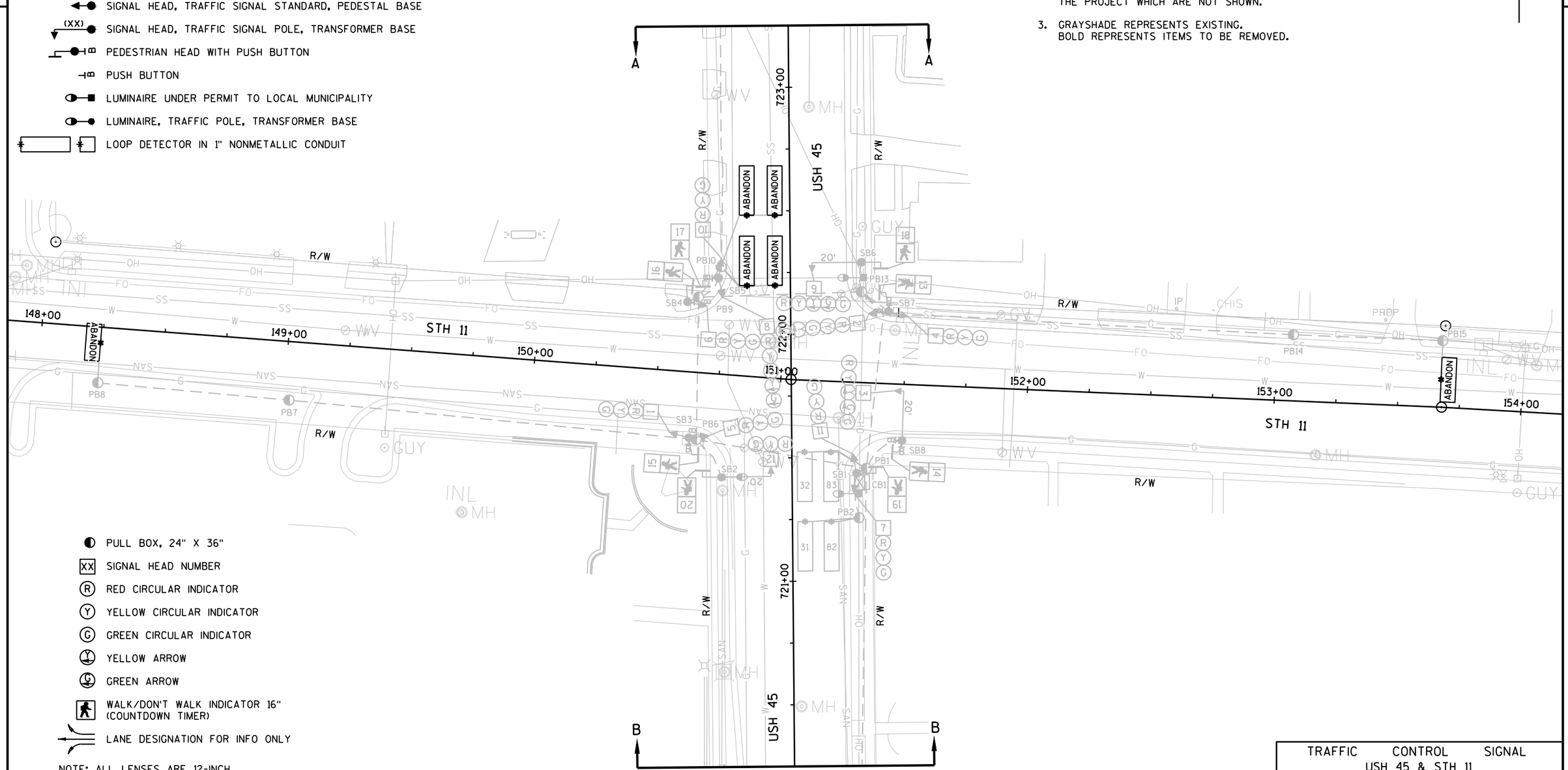
LEGEND

- CONTROL CABINET
- NONMETALLIC CONDUIT 2", UNLESS OTHERWISE NOTED
- LOOP DETECTOR CONDUIT, 1" NONMETALLIC
- SIGNAL HEAD, TRAFFIC SIGNAL STANDARD, PEDESTAL BASE
- (XX) SIGNAL HEAD, TRAFFIC SIGNAL POLE, TRANSFORMER BASE
- PEDESTRIAN HEAD WITH PUSH BUTTON
- PUSH BUTTON
- LUMINAIRE UNDER PERMIT TO LOCAL MUNICIPALITY
- LUMINAIRE, TRAFFIC POLE, TRANSFORMER BASE
- LOOP DETECTOR IN 1" NONMETALLIC CONDUIT

CONSTRUCTION NOTES:

1. ABANDONED LOOP DETECTOR CONDUIT TO REMAIN IN PLACE. LOOP DETECTOR WIRE AND LEAD-IN CABLE TO BE REMOVED BY THE CONTRACTOR.
2. THE LOCATIONS OF EXISTING UTILITY INSTALLATIONS ARE APPROXIMATE. THERE MAY BE OTHER UTILITY INSTALLATIONS WITHIN THE PROJECT WHICH ARE NOT SHOWN.
3. GRAYSHADE REPRESENTS EXISTING.
   BOLD REPRESENTS ITEMS TO BE REMOVED.

N



- PULL BOX, 24" X 36"
- XX SIGNAL HEAD NUMBER
- (R) RED CIRCULAR INDICATOR
- (Y) YELLOW CIRCULAR INDICATOR
- (G) GREEN CIRCULAR INDICATOR
- YELLOW ARROW
- GREEN ARROW
- WALK/DON'T WALK INDICATOR 16" (COUNTDOWN TIMER)
- LANE DESIGNATION FOR INFO ONLY

NOTE: ALL LENSES ARE 12-INCH
GRAYSHADE REPRESENTS EXISTING

TRAFFIC CONTROL SIGNAL
USH 45 & STH 11
VILLAGE OF UNION GROVE
RACINE COUNTY

SIGNAL NO. S51-0480

REGION CONTACT: S. SWARD
DESIGNED BY:
REVISED BY: C. VANDE LEEST

PAGE 1 OF 2

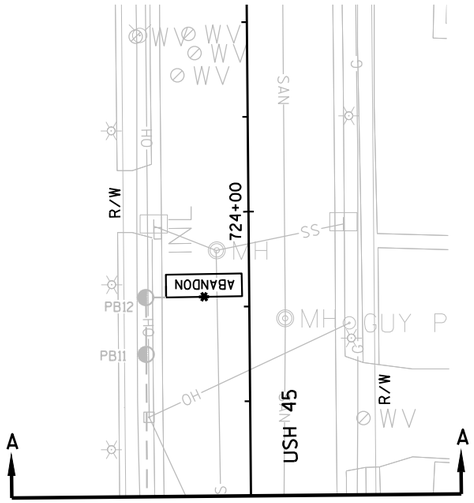
PROJECT NO:1320-20-60	HWY: USH 45	COUNTY: RACINE	TRAFFIC SIGNAL REMOVAL PLAN	SHEET 36	E

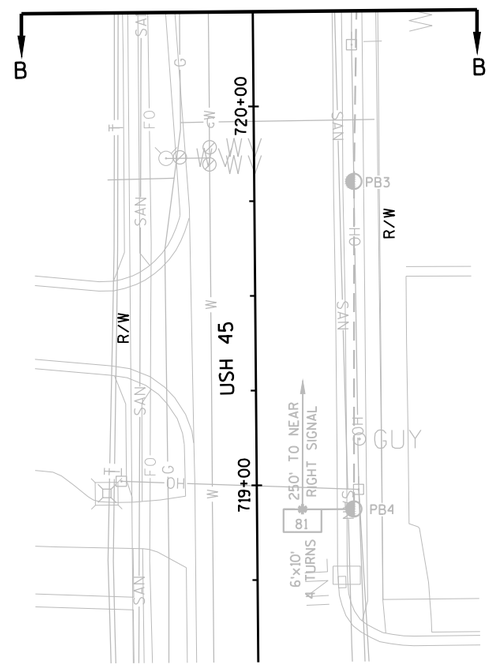
FILE NAME : N:\PDS\C3D\CAD\13202030\SIG\S51-0480\S51-0480_REM.DWG
LAYOUT NAME - 024001_REM

PLOT DATE : 1/25/2016 7:43 AM PLOT BY : VANDE LEEST, CYNTHIA PLOT NAME : PLOT SCALE : 1 IN:40 FT

2

N





TRAFFIC CONTROL SIGNAL
USH 45 & STH 11
VILLAGE OF UNION GROVE
RACINE COUNTY

SIGNAL NO. S51-0480

REGION CONTACT: S. SWARD
DESIGNED BY:
REVISED BY: C. VANDE LEEST

PAGE 2 OF 2

PROJECT NO:1320-20-60	HWY: USH 45	COUNTY: RACINE	TRAFFIC SIGNAL REMOVAL PLAN	SHEET 37	E

2

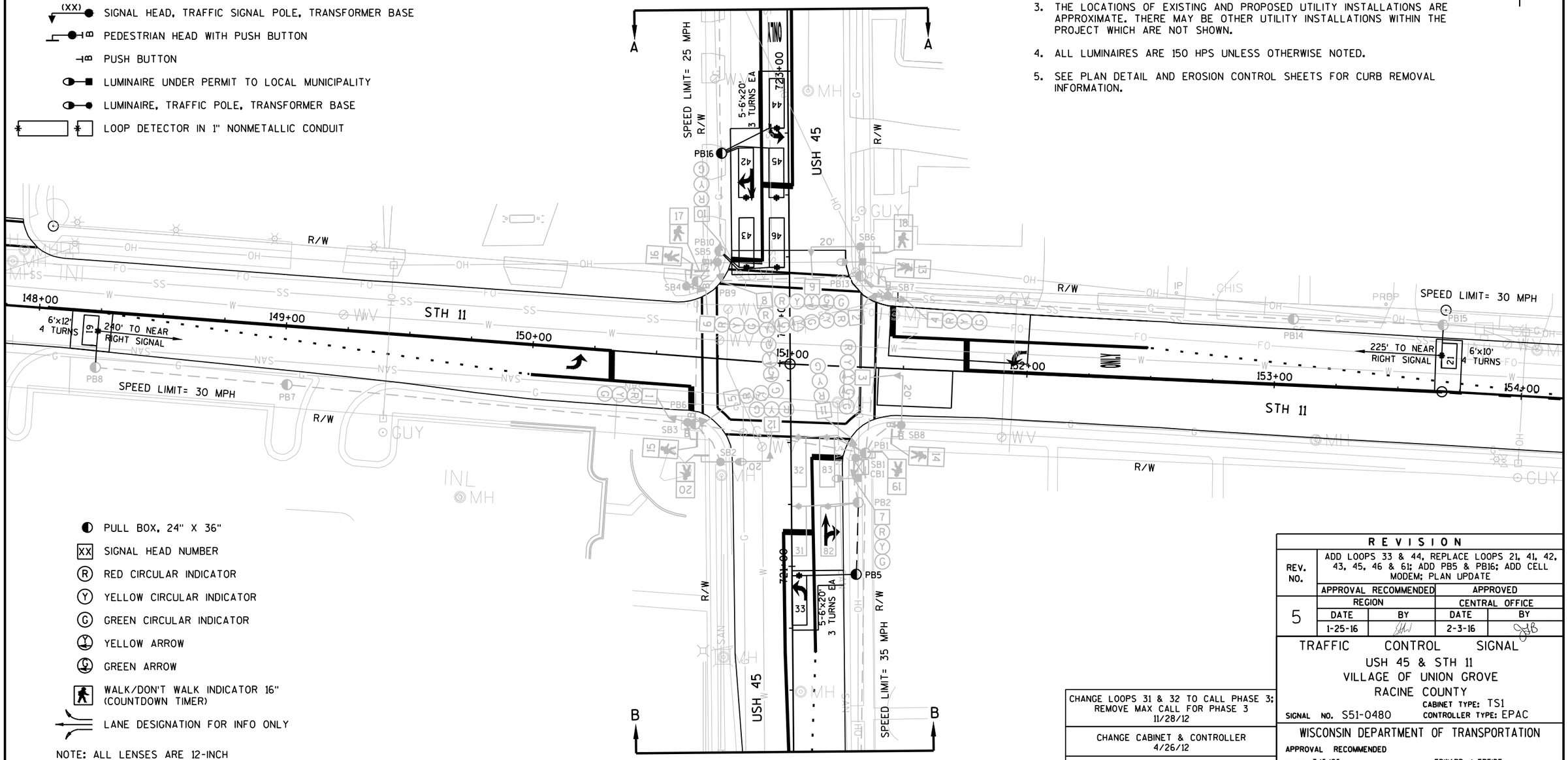
LEGEND

- CONTROL CABINET
- NONMETALLIC CONDUIT 2", UNLESS OTHERWISE NOTED
- LOOP DETECTOR CONDUIT, 1" NONMETALLIC
- SIGNAL HEAD, TRAFFIC SIGNAL STANDARD, PEDESTAL BASE
- (XX) SIGNAL HEAD, TRAFFIC SIGNAL POLE, TRANSFORMER BASE
- PEDESTRIAN HEAD WITH PUSH BUTTON
- PUSH BUTTON
- LUMINAIRE UNDER PERMIT TO LOCAL MUNICIPALITY
- LUMINAIRE, TRAFFIC POLE, TRANSFORMER BASE
- LOOP DETECTOR IN 1" NONMETALLIC CONDUIT

CONSTRUCTION NOTES:

1. * LOCATION IS TO FRONT CENTER OF DETECTOR LOOP.
2. THE CONTRACTOR SHALL HAVE THE PULL BOXES AND CONDUIT RUNS INSPECTED 5 WORKING DAYS PRIOR TO PLACING SIGNAL CABLE INTO SYSTEM. CONTACT THE WISDOT ELECTRICAL FIELD UNIT TO MAKE ARRANGEMENTS. (414) 266-1170.
3. THE LOCATIONS OF EXISTING AND PROPOSED UTILITY INSTALLATIONS ARE APPROXIMATE. THERE MAY BE OTHER UTILITY INSTALLATIONS WITHIN THE PROJECT WHICH ARE NOT SHOWN.
4. ALL LUMINAIRES ARE 150 HPS UNLESS OTHERWISE NOTED.
5. SEE PLAN DETAIL AND EROSION CONTROL SHEETS FOR CURB REMOVAL INFORMATION.

N



- PULL BOX, 24" X 36"
- XX SIGNAL HEAD NUMBER
- (R) RED CIRCULAR INDICATOR
- (Y) YELLOW CIRCULAR INDICATOR
- (G) GREEN CIRCULAR INDICATOR
- (Y) YELLOW ARROW
- (G) GREEN ARROW
- WALK/DON'T WALK INDICATOR 16" (COUNTDOWN TIMER)
- LANE DESIGNATION FOR INFO ONLY

NOTE: ALL LENSES ARE 12-INCH
GRAYSHADE REPRESENTS EXISTING

REVISION				
REV. NO.	ADD LOOPS 33 & 44, REPLACE LOOPS 21, 41, 42, 43, 45, 46 & 61; ADD PB5 & PB16; ADD CELL MODEM; PLAN UPDATE			
	APPROVAL RECOMMENDED		APPROVED	
5	REGION		CENTRAL OFFICE	
	DATE	BY	DATE	BY
	1-25-16		2-3-16	

CHANGE LOOPS 31 & 32 TO CALL PHASE 3; REMOVE MAX CALL FOR PHASE 3 11/28/12
CHANGE CABINET & CONTROLLER 4/26/12
REPAIR LOOPS 82, 83, 84 & 85 9/30/08
INSTALL LEFT TURN ARROW FOR NB & EB 07/05
INITIAL INSTALL 1996

TRAFFIC CONTROL SIGNAL
USH 45 & STH 11
VILLAGE OF UNION GROVE
RACINE COUNTY
CABINET TYPE: TS1
SIGNAL NO. S51-0480 CONTROLLER TYPE: EPAC

WISCONSIN DEPARTMENT OF TRANSPORTATION

APPROVAL RECOMMENDED
DATE 3/6/96 EDWARD J FREIDE, REGION TRAFFIC ENGINEER

APPROVED
DATE 3/17/96 PETER F RUSCH, STATE TRAFFIC ENGINEER

REGION CONTACT: S. SWARD
DESIGNED BY:
REVISED BY: C. VANDE LEEST

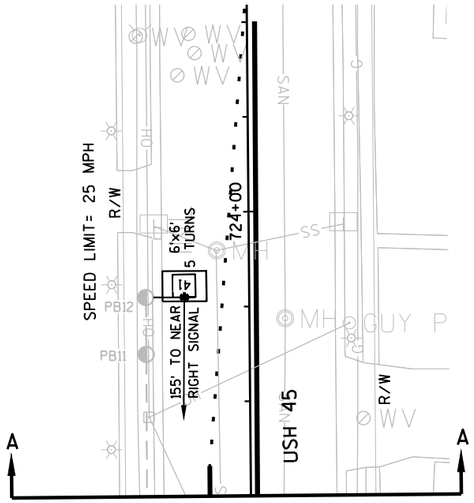
PAGE 1 OF 3

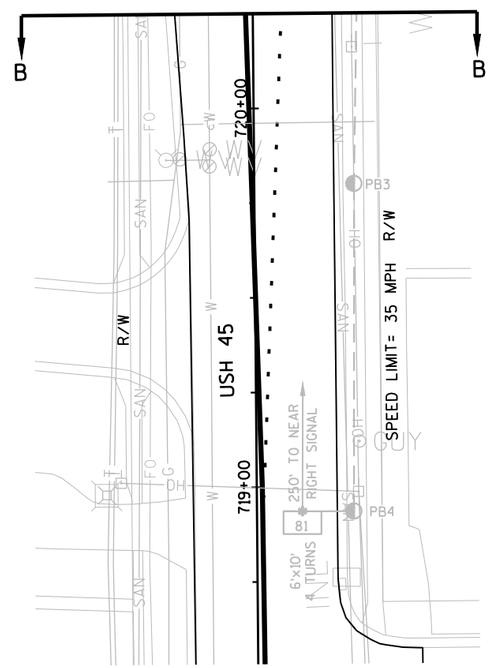
PROJECT NO: 1320-20-60	HWY: USH 45	COUNTY: RACINE	TRAFFIC SIGNAL PLAN	SHEET 38	E

FILE NAME : N:\PDS\C3D\CAD\13202030\SIG\S51-0480\S51-0480_E.DWG
LAYOUT NAME - 024001_SP

PLOT DATE : 2/4/2016 8:10 AM PLOT BY : VANDE LEEST, CYNTHIA PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42





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TRAFFIC CONTROL SIGNAL
USH 45 & STH 11
VILLAGE OF UNION GROVE
RACINE COUNTY

SIGNAL NO. S51-0480

REGION CONTACT: S. SWARD
DESIGNED BY:
REVISED BY: C. VANDE LEEST

PAGE 2 OF 3

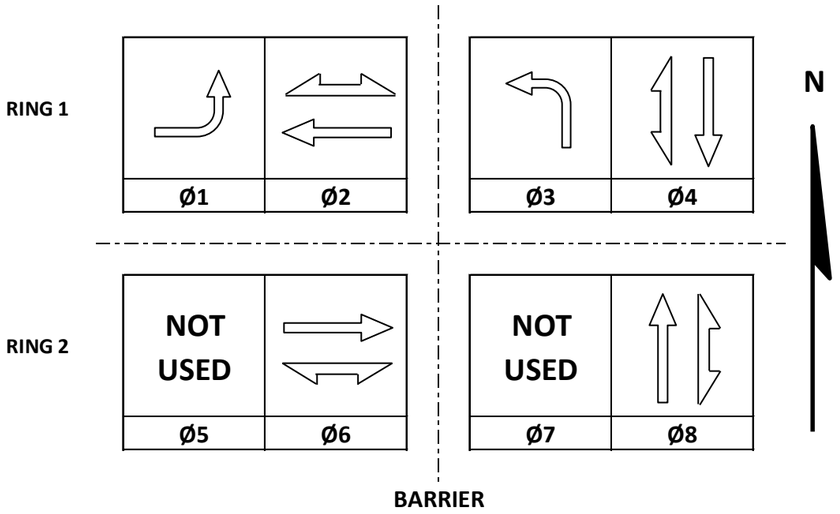
PROJECT NO:1320-20-60	HWY: USH 45	COUNTY: RACINE	TRAFFIC SIGNAL PLAN	SHEET 39	E

FILE NAME : N:\PDS\C3D\CAD\13202030\SIG\S51-0480\S51-0480_E.DWG
LAYOUT NAME - 024001_SP (2)

PLOT DATE : 2/4/2016 8:10 AM PLOT BY : VANDE LEEST, CYNTHIAPLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

	HEAD NUMBERS	FLASH
Ø1	2, 3	-
Ø2	4, 5, 6	R
Ø3	8, 9	-
Ø4	10, 11, 12	R
Ø5		
Ø6	1, 2, 3	R
Ø7		
Ø8	7, 8, 9	R
Ø2P	13, 16	
Ø4P	17, 20	
Ø6P	14, 15	
Ø8P	18, 19	
OLA		
OLB		
OLC		
OLD		



DETECTOR LOGIC

DETECTOR NUMBER	AMPLIFIER CHANNEL	DETECTOR OPERATION			PHASE CALLED	PHASE EXTENDED	DETECTOR DISCONNECT PHASE	CALLING DELAY	EXTENSION STRETCH	SIZE	NUMBER OF TURNS
		CALLS AND EXTENDS	CALLS ONLY	EXTENDS ONLY							
21	1	X			2	2				6X10	4
31	8	X			3	3		X		6X20	3
32	8	X			3	3		X		6X20	3
33	9	X			3	3				6X20	3
41	2			X		4			X	6X6	5
42	3	X			4	4				6X20	3
43	3	X			4	4				6X20	3
44	10	X			4	4				6X20	3
45	4	X			4	4		X		6X20	3
46	4	X			4	4		X		6X20	3
61	5	X			6	6				6X12	4
81	6			X		8			X	6X10	4
82	7	X			8	8				6X20	3
83	7	X			8	8				6X20	3

CONTROLLER LOGIC

PHASE NUMBER	PHASE LOCKING	DUAL ENTRY W / Ø	PHASE RECALL	PHASE ACTIVE
1		6		X
2	X	6	MIN	X
3		8		X
4		8		X
5				
6	X	2	MIN	X
7				
8		4		X

TYPE OF INTERCONNECT/COMMUNICATION	
NONE	
CLOSED LOOP	
TWISTED PAIR	
FIBER OPTIC*	
FIBER OPTIC (ETHERNET)	
RADIO	
CELL MODEM	X

TYPE OF COORDINATION	
NONE	X
TBC	
TRAFFIC RESPONSIVE	
ADAPTIVE	
*LOCATION OF MASTER CONTROLLER NO:	S-
SIGNAL SYSTEM NO:	SS-

TYPE OF LIGHTING	
BY OTHER AGENCY	
IN TRAFFIC CABINET	X
IN SEPARATE DOT LIGHTING CABINET	

TYPE OF PRE-EMPT	
NONE	X
RAILROAD	
EMERGENCY VEHICLE	
GTT	
TOMAR	
HARDWIRE	
OTHER	
LIFT BRIDGE	
QUEUE DETECTION	

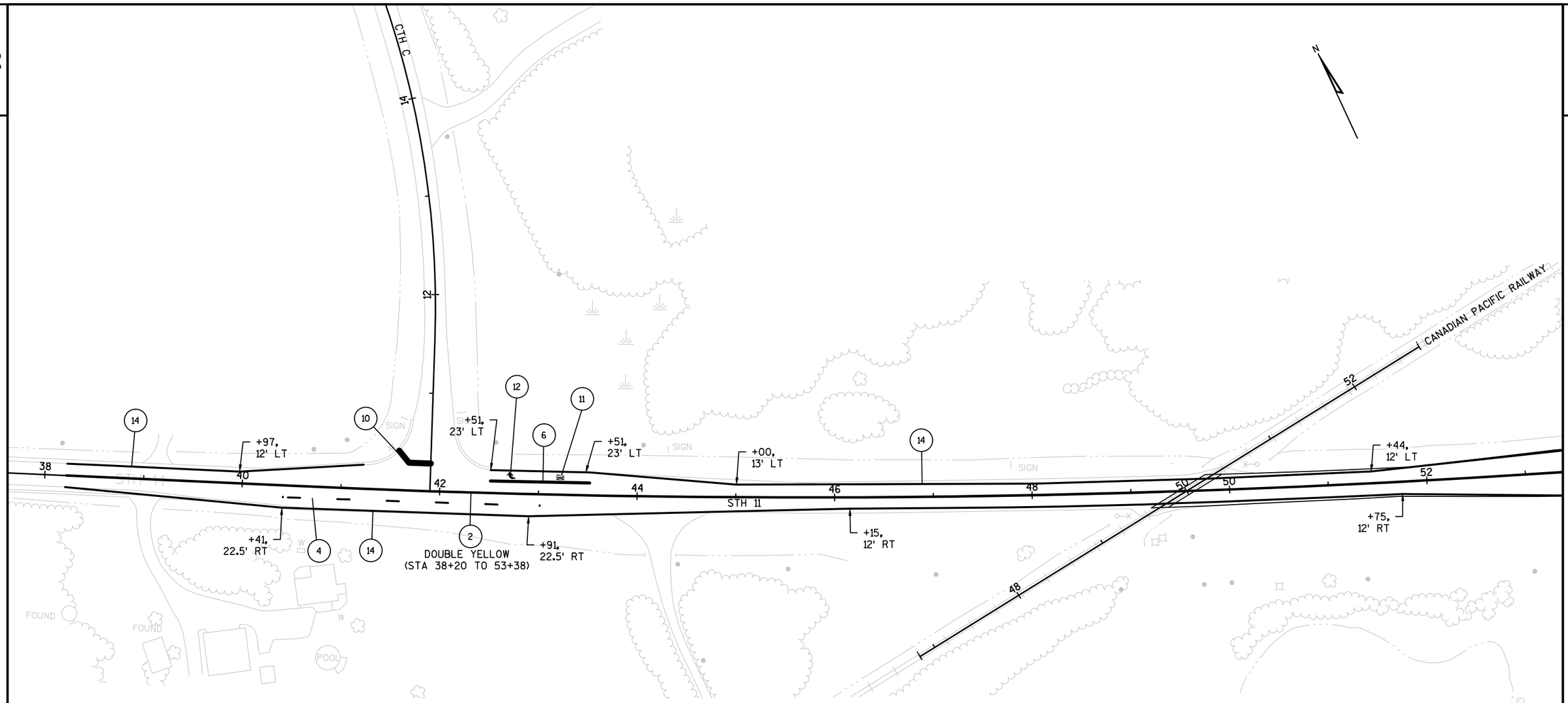
GENERAL NOTES:

1. PHASE 1 ACTIVATED BY TIME OF DAY PROGRAMMING.

USH 45 & STH 11
VILLAGE OF UNION GROVE
RACINE COUNTY
SIGNAL NO: S51-0480 CABINET TYPE: TS1
CONTROLLER TYPE: EPAC
DATE: 1 / 16 PAGE NO. 3 OF 3

PROJECT NO: 1320-20-60	HWY: USH 45	COUNTY: RACINE	SEQUENCE OF OPERATIONS	SHEET NO: 40	E

2



LEGEND:

1. PAVEMENT MARKING EPOXY 4-INCH (WHITE)
2. PAVEMENT MARKING SAME DAY EPOXY 4-INCH (YELLOW)
3. PAVEMENT MARKING SAME DAY EPOXY 4-INCH (YELLOW SKIPS - 12.5' LINE, 37.5' GAP)
4. PAVEMENT MARKING GROOVED PREFORMED PLASTIC TAPE, 4-INCH (SKIPS - 12.5' LINE, 37.5' GAP)
5. PAVEMENT MARKING GROOVED PREFORMED PLASTIC TAPE, 4-INCH (SKIPS - 3' LINE, 9' GAP)
6. PAVEMENT MARKING GROOVED PREFORMED PLASTIC TAPE, 8-INCH (CHANNELIZING)
7. PAVEMENT MARKING GROOVED PREFORMED PLASTIC TAPE, 8-INCH (SKIPS - 3' LINE, 9' GAP)
8. PAVEMENT MARKING GROOVED PREFORMED THERMOPLASTIC CROSSWALK 6-INCH
9. PAVEMENT MARKING GROOVED PREFORMED THERMOPLASTIC CROSSWALK 24-INCH
10. PAVEMENT MARKING GROOVED PREFORMED THERMOPLASTIC STOP BAR 18-INCH
11. PAVEMENT MARKING GROOVED PREFORMED THERMOPLASTIC WORDS
12. PAVEMENT MARKING GROOVED PREFORMED THERMOPLASTIC ARROWS TYPE 2
13. PAVEMENT MARKING GROOVED PREFORMED THERMOPLASTIC ARROWS TYPE 3
14. PAVEMENT MARKING GROOVED EPOXY 4-INCH (WHITE)

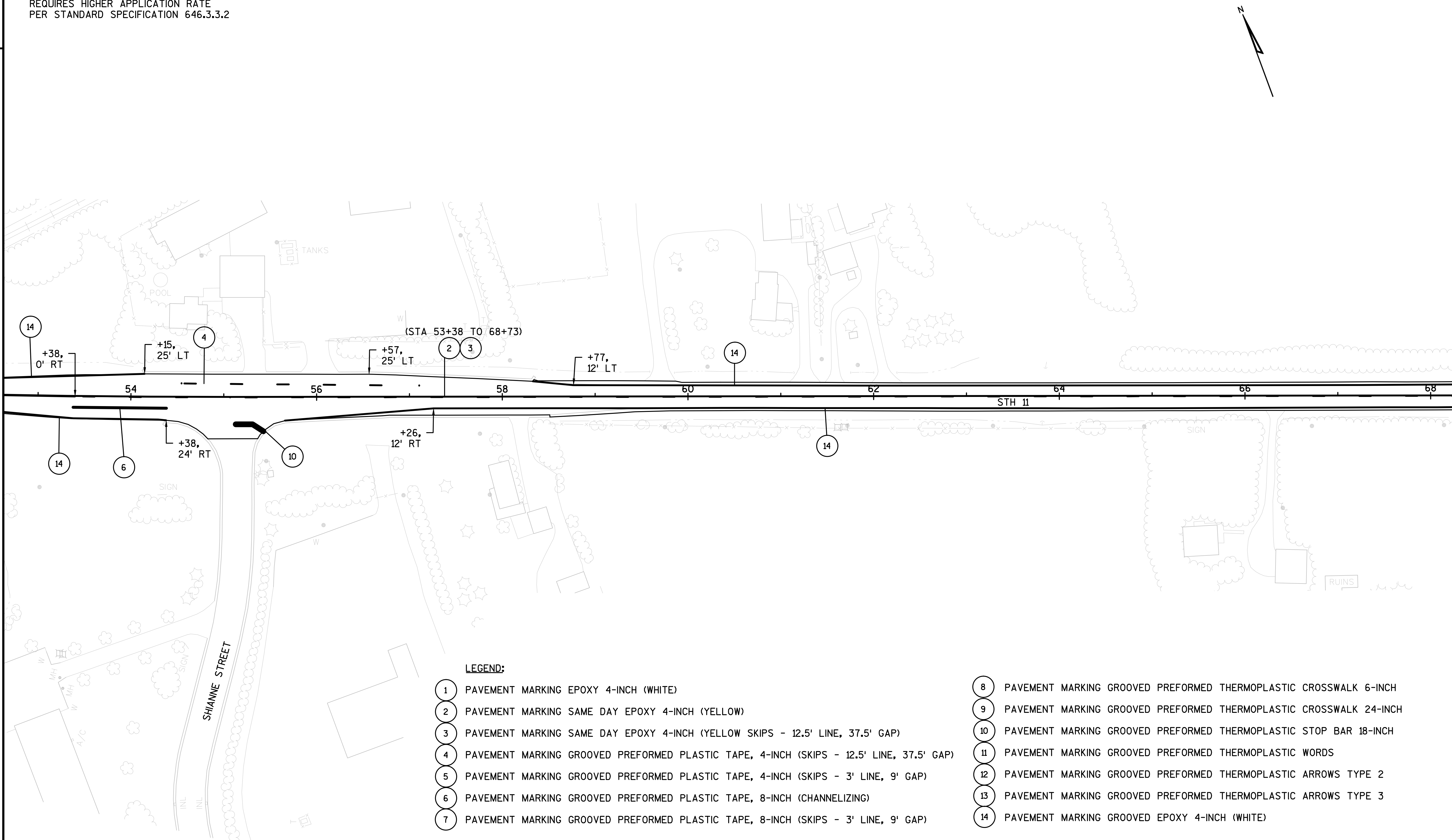
NOTE:
EPOXY 4-INCH YELLOW OVER CENTERLINE RUMBLE STRIPS
STA 43+90 TO 53+15 AND STA 57+15 TO 70+10
REQUIRES HIGHER APPLICATION RATE
PER STANDARD SPECIFICATION 646.3.3.2

PROJECT NO: 1320-20-60	HWY: STH 11	COUNTY: RACINE	PAVEMENT MARKING	SHEET 41	E

2

NOTE:
EPOXY 4-INCH YELLOW OVER CENTERLINE RUMBLE STRIPS
STA 43+90 TO 53+15 AND STA 57+15 TO 70+10
REQUIRES HIGHER APPLICATION RATE
PER STANDARD SPECIFICATION 646.3.3.2

2



LEGEND:

1 PAVEMENT MARKING EPOXY 4-INCH (WHITE)
2 PAVEMENT MARKING SAME DAY EPOXY 4-INCH (YELLOW)
3 PAVEMENT MARKING SAME DAY EPOXY 4-INCH (YELLOW SKIPS - 12.5' LINE, 37.5' GAP)
4 PAVEMENT MARKING GROOVED PREFORMED PLASTIC TAPE, 4-INCH (SKIPS - 12.5' LINE, 37.5' GAP)
5 PAVEMENT MARKING GROOVED PREFORMED PLASTIC TAPE, 4-INCH (SKIPS - 3' LINE, 9' GAP)
6 PAVEMENT MARKING GROOVED PREFORMED PLASTIC TAPE, 8-INCH (CHANNELIZING)
7 PAVEMENT MARKING GROOVED PREFORMED PLASTIC TAPE, 8-INCH (SKIPS - 3' LINE, 9' GAP)
8 PAVEMENT MARKING GROOVED PREFORMED THERMOPLASTIC CROSSWALK 6-INCH
9 PAVEMENT MARKING GROOVED PREFORMED THERMOPLASTIC CROSSWALK 24-INCH
10 PAVEMENT MARKING GROOVED PREFORMED THERMOPLASTIC STOP BAR 18-INCH
11 PAVEMENT MARKING GROOVED PREFORMED THERMOPLASTIC WORDS
12 PAVEMENT MARKING GROOVED PREFORMED THERMOPLASTIC ARROWS TYPE 2
13 PAVEMENT MARKING GROOVED PREFORMED THERMOPLASTIC ARROWS TYPE 3
14 PAVEMENT MARKING GROOVED EPOXY 4-INCH (WHITE)

PROJECT NO:1320-20-60	HWY:STH 11	COUNTY:RACINE	PAVEMENT MARKING	SHEET 42	E

2

LEGEND:

1. PAVEMENT MARKING EPOXY 4-INCH (WHITE)
2. PAVEMENT MARKING SAME DAY EPOXY 4-INCH (YELLOW)
3. PAVEMENT MARKING SAME DAY EPOXY 4-INCH (YELLOW SKIPS - 12.5' LINE, 37.5' GAP)
4. PAVEMENT MARKING GROOVED PREFORMED PLASTIC TAPE, 4-INCH (SKIPS - 12.5' LINE, 37.5' GAP)
5. PAVEMENT MARKING GROOVED PREFORMED PLASTIC TAPE, 4-INCH (SKIPS - 3' LINE, 9' GAP)
6. PAVEMENT MARKING GROOVED PREFORMED PLASTIC TAPE, 8-INCH (CHANNELIZING)
7. PAVEMENT MARKING GROOVED PREFORMED PLASTIC TAPE, 8-INCH (SKIPS - 3' LINE, 9' GAP)
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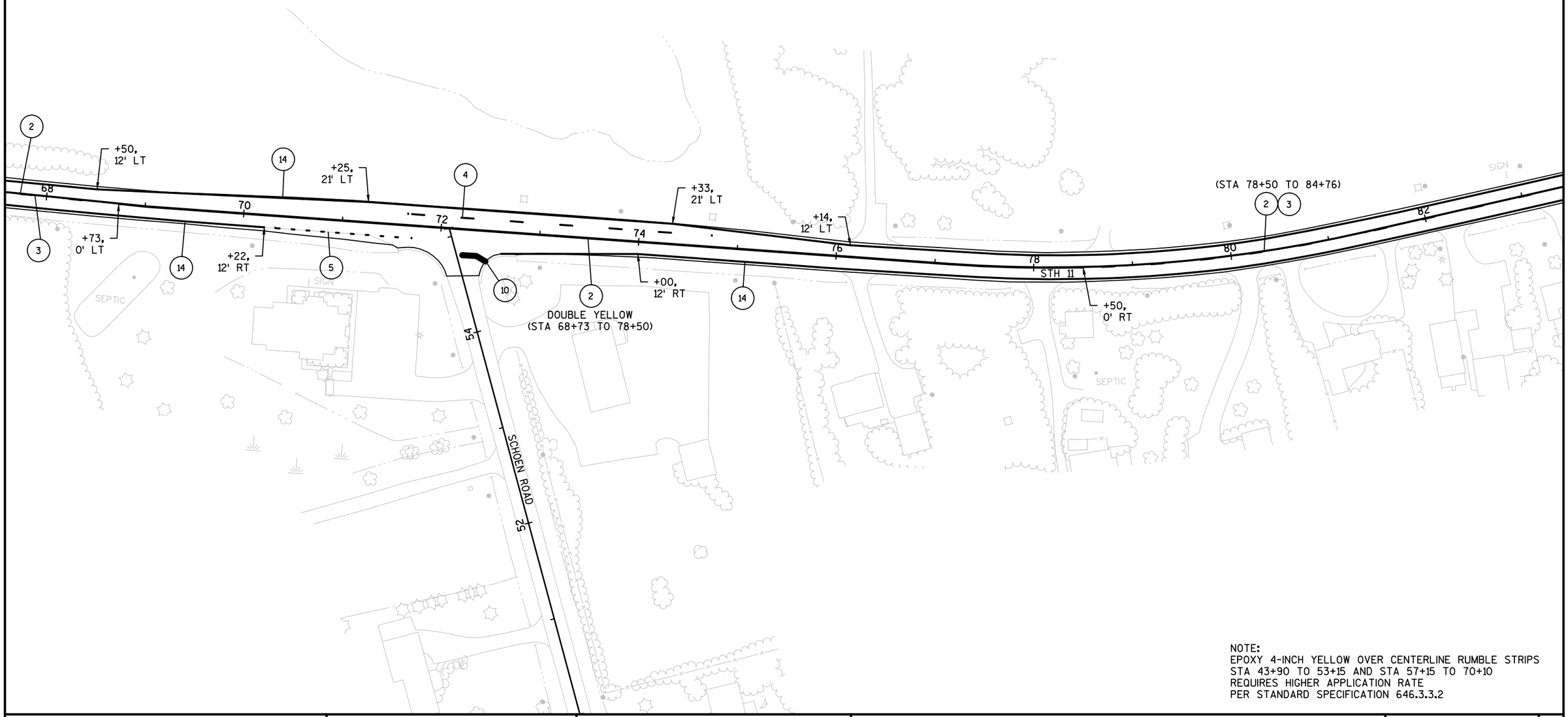
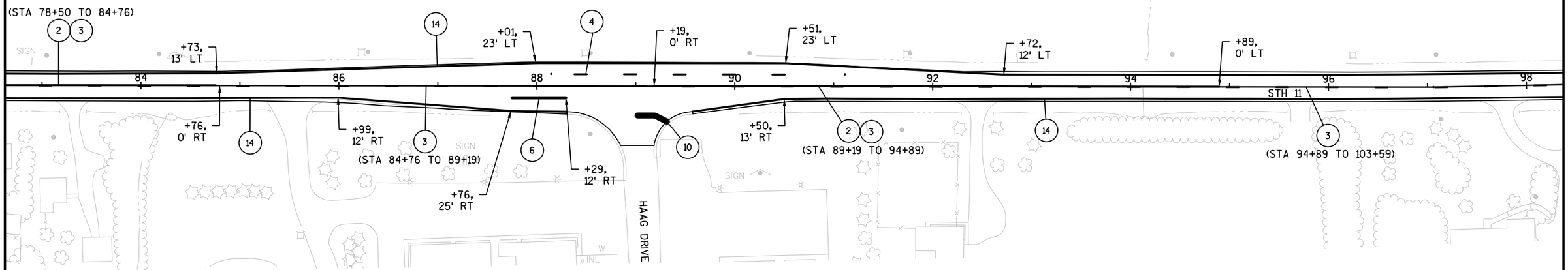
12. PAVEMENT MARKING GROOVED PREFORMED THERMOPLASTIC ARROWS TYPE 2
13. PAVEMENT MARKING GROOVED PREFORMED THERMOPLASTIC ARROWS TYPE 3
14. PAVEMENT MARKING GROOVED EPOXY 4-INCH (WHITE)



NOTE:
EPOXY 4-INCH YELLOW OVER CENTERLINE RUMBLE STRIPS
STA 43+90 TO 53+15 AND STA 57+15 TO 70+10
REQUIRES HIGHER APPLICATION RATE
PER STANDARD SPECIFICATION 646.3.3.2

PROJECT NO: 1320-20-60	HWY: STH 11	COUNTY: RACINE	PAVEMENT MARKING	SHEET 43	E

2



LEGEND:

1. PAVEMENT MARKING EPOXY 4-INCH (WHITE)
2. PAVEMENT MARKING SAME DAY EPOXY 4-INCH (YELLOW)
3. PAVEMENT MARKING SAME DAY EPOXY 4-INCH (YELLOW SKIPS - 12.5' LINE, 37.5' GAP)
4. PAVEMENT MARKING GROOVED PREFORMED PLASTIC TAPE, 4-INCH (SKIPS - 12.5' LINE, 37.5' GAP)
5. PAVEMENT MARKING GROOVED PREFORMED PLASTIC TAPE, 4-INCH (SKIPS - 3' LINE, 9' GAP)
6. PAVEMENT MARKING GROOVED PREFORMED PLASTIC TAPE, 8-INCH (CHANNELIZING)
7. PAVEMENT MARKING GROOVED PREFORMED PLASTIC TAPE, 8-INCH (SKIPS - 3' LINE, 9' GAP)
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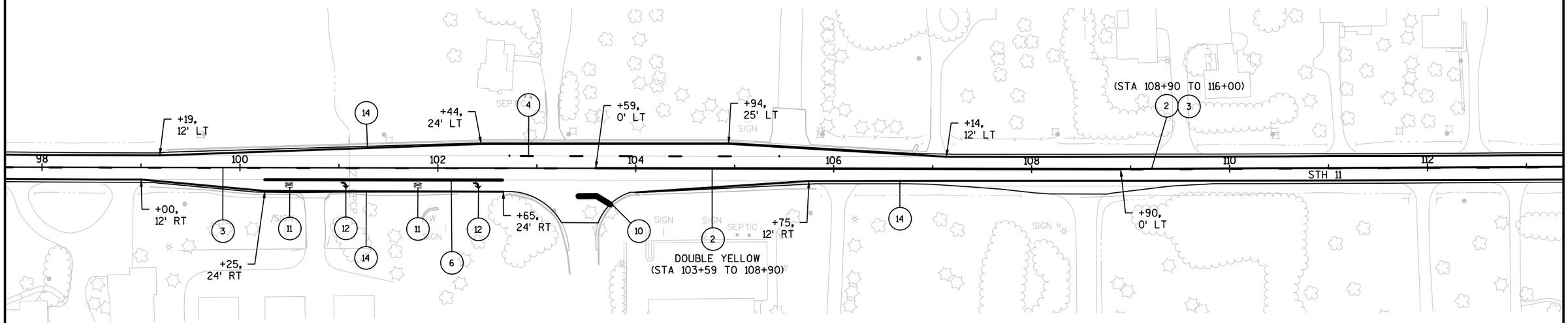
10. PAVEMENT MARKING GROOVED PREFORMED THERMOPLASTIC STOP BAR 18-INCH
11. PAVEMENT MARKING GROOVED PREFORMED THERMOPLASTIC WORDS
12. PAVEMENT MARKING GROOVED PREFORMED THERMOPLASTIC ARROWS TYPE 2
13. PAVEMENT MARKING GROOVED PREFORMED THERMOPLASTIC ARROWS TYPE 3
14. PAVEMENT MARKING GROOVED EPOXY 4-INCH (WHITE)

NOTE:
EPOXY 4-INCH YELLOW OVER CENTERLINE RUMBLE STRIPS
STA 43+90 TO 53+15 AND STA 57+15 TO 70+10
REQUIRES HIGHER APPLICATION RATE
PER STANDARD SPECIFICATION 646.3.3.2

PROJECT NO: 1320-20-60	HWY: STH 11	COUNTY: RACINE	PAVEMENT MARKING	SHEET 44	E

2



LEGEND:

1. PAVEMENT MARKING EPOXY 4-INCH (WHITE)
2. PAVEMENT MARKING SAME DAY EPOXY 4-INCH (YELLOW)
3. PAVEMENT MARKING SAME DAY EPOXY 4-INCH (YELLOW SKIPS - 12.5' LINE, 37.5' GAP)
4. PAVEMENT MARKING GROOVED PREFORMED PLASTIC TAPE, 4-INCH (SKIPS - 12.5' LINE, 37.5' GAP)
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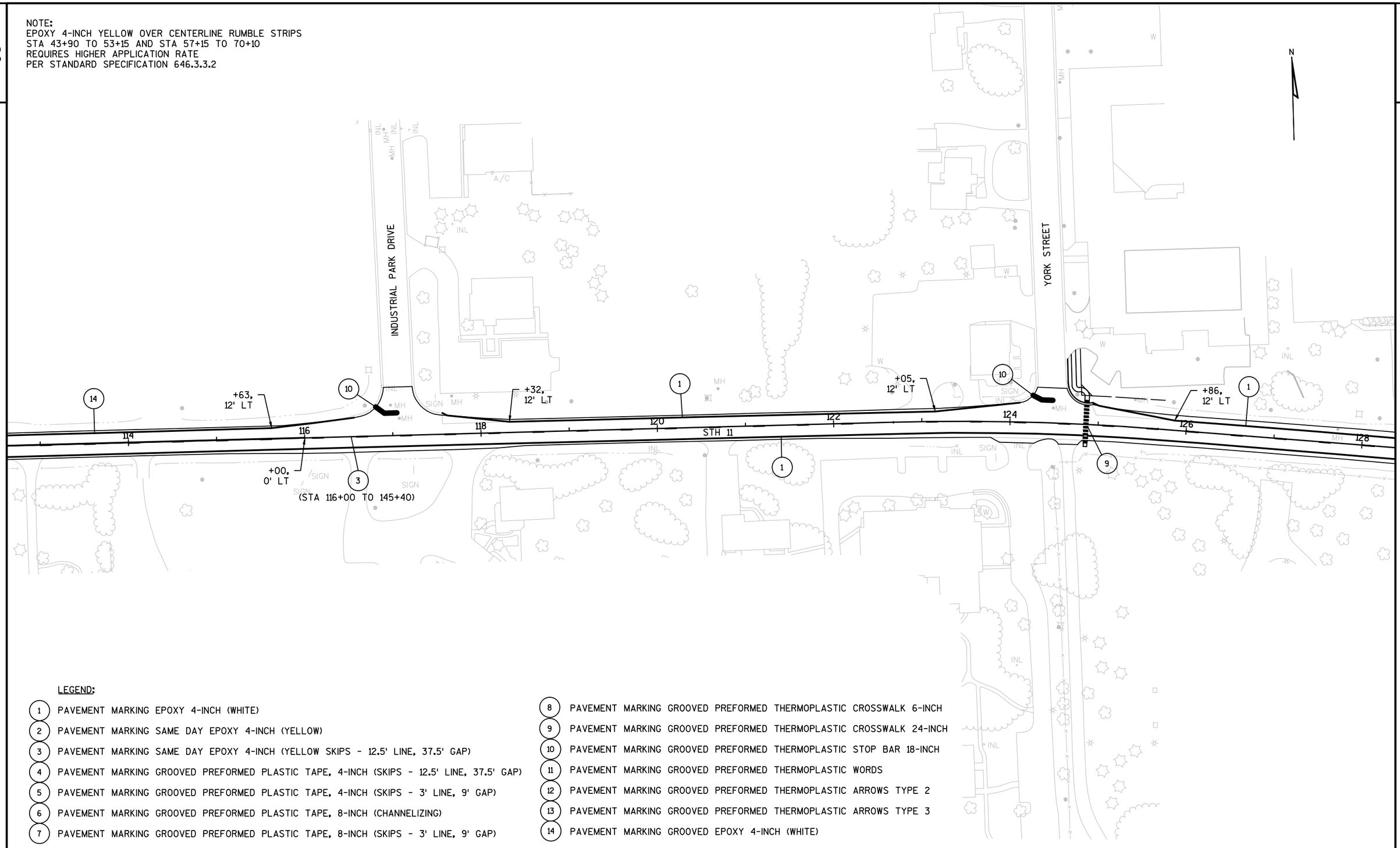
11. PAVEMENT MARKING GROOVED PREFORMED THERMOPLASTIC WORDS
12. PAVEMENT MARKING GROOVED PREFORMED THERMOPLASTIC ARROWS TYPE 2
13. PAVEMENT MARKING GROOVED PREFORMED THERMOPLASTIC ARROWS TYPE 3
14. PAVEMENT MARKING GROOVED EPOXY 4-INCH (WHITE)

NOTE:
EPOXY 4-INCH YELLOW OVER CENTERLINE RUMBLE STRIPS
STA 43+90 TO 53+15 AND STA 57+15 TO 70+10
REQUIRES HIGHER APPLICATION RATE
PER STANDARD SPECIFICATION 646.3.3.2

PROJECT NO: 1320-20-60	HWY: STH 11	COUNTY: RACINE	PAVEMENT MARKING	SHEET 45	E

NOTE:
EPOXY 4-INCH YELLOW OVER CENTERLINE RUMBLE STRIPS
STA 43+90 TO 53+15 AND STA 57+15 TO 70+10
REQUIRES HIGHER APPLICATION RATE
PER STANDARD SPECIFICATION 646.3.3.2



LEGEND:

1. PAVEMENT MARKING EPOXY 4-INCH (WHITE)
2. PAVEMENT MARKING SAME DAY EPOXY 4-INCH (YELLOW)
3. PAVEMENT MARKING SAME DAY EPOXY 4-INCH (YELLOW SKIPS - 12.5' LINE, 37.5' GAP)
4. PAVEMENT MARKING GROOVED PREFORMED PLASTIC TAPE, 4-INCH (SKIPS - 12.5' LINE, 37.5' GAP)
5. PAVEMENT MARKING GROOVED PREFORMED PLASTIC TAPE, 4-INCH (SKIPS - 3' LINE, 9' GAP)
6. PAVEMENT MARKING GROOVED PREFORMED PLASTIC TAPE, 8-INCH (CHANNELIZING)
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12. PAVEMENT MARKING GROOVED PREFORMED THERMOPLASTIC ARROWS TYPE 2
13. PAVEMENT MARKING GROOVED PREFORMED THERMOPLASTIC ARROWS TYPE 3
14. PAVEMENT MARKING GROOVED EPOXY 4-INCH (WHITE)

PROJECT NO: 1320-20-60	HWY: STH 11	COUNTY: RACINE	PAVEMENT MARKING	SHEET 46	E

2

LEGEND:

1. PAVEMENT MARKING EPOXY 4-INCH (WHITE)
2. PAVEMENT MARKING SAME DAY EPOXY 4-INCH (YELLOW)
3. PAVEMENT MARKING SAME DAY EPOXY 4-INCH (YELLOW SKIPS - 12.5' LINE, 37.5' GAP)
4. PAVEMENT MARKING GROOVED PREFORMED PLASTIC TAPE, 4-INCH (SKIPS - 12.5' LINE, 37.5' GAP)
5. PAVEMENT MARKING GROOVED PREFORMED PLASTIC TAPE, 4-INCH (SKIPS - 3' LINE, 9' GAP)
6. PAVEMENT MARKING GROOVED PREFORMED PLASTIC TAPE, 8-INCH (CHANNELIZING)
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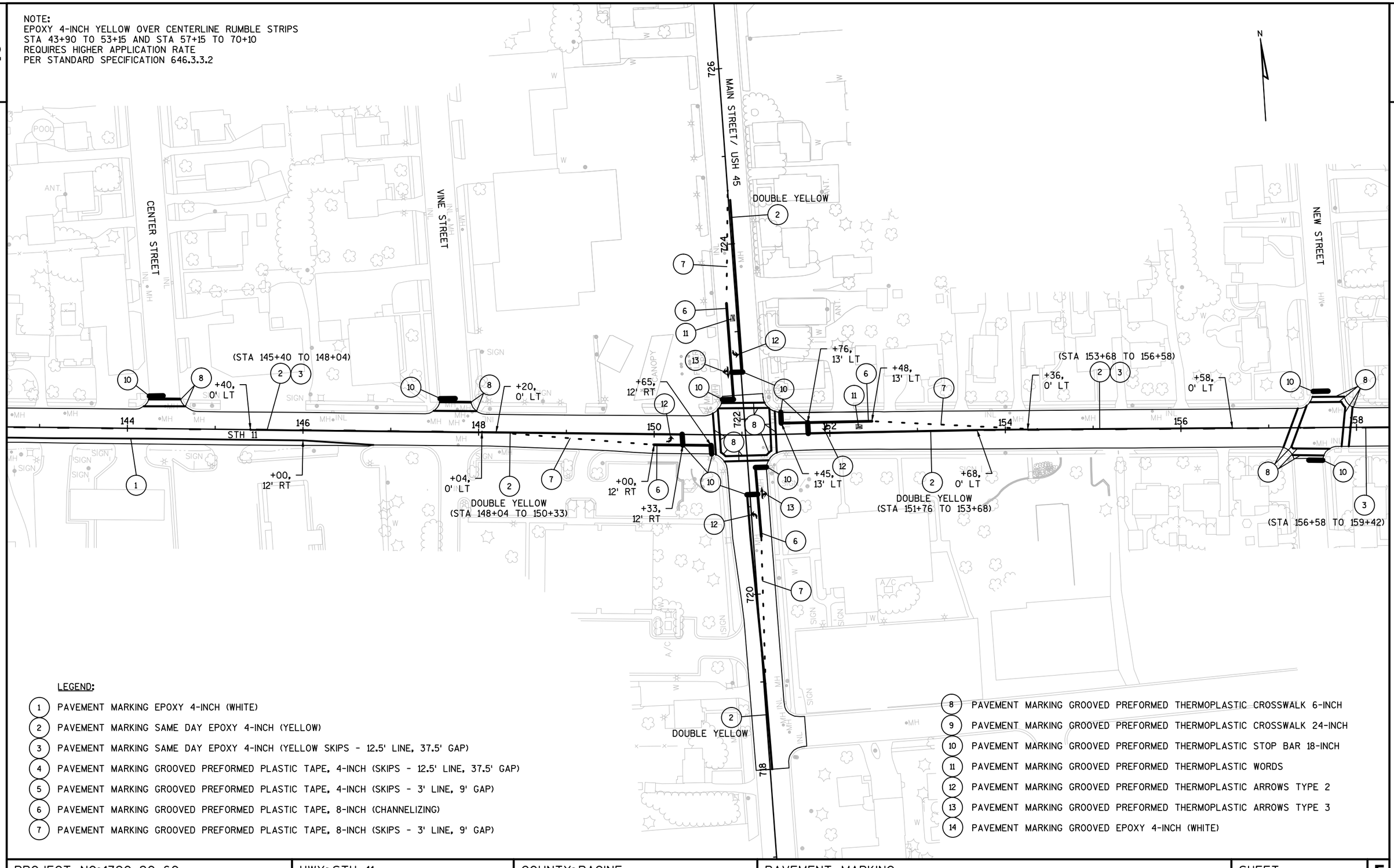
13. PAVEMENT MARKING GROOVED PREFORMED THERMOPLASTIC ARROWS TYPE 3
14. PAVEMENT MARKING GROOVED EPOXY 4-INCH (WHITE)

NOTE:
EPOXY 4-INCH YELLOW OVER CENTERLINE RUMBLE STRIPS
STA 43+90 TO 53+15 AND STA 57+15 TO 70+10
REQUIRES HIGHER APPLICATION RATE
PER STANDARD SPECIFICATION 646.3.3.2

PROJECT NO: 1320-20-60	HWY: STH 11	COUNTY: RACINE	PAVEMENT MARKING	SHEET 47	E

NOTE:
EPOXY 4-INCH YELLOW OVER CENTERLINE RUMBLE STRIPS
STA 43+90 TO 53+15 AND STA 57+15 TO 70+10
REQUIRES HIGHER APPLICATION RATE
PER STANDARD SPECIFICATION 646.3.3.2



LEGEND:

1. PAVEMENT MARKING EPOXY 4-INCH (WHITE)
2. PAVEMENT MARKING SAME DAY EPOXY 4-INCH (YELLOW)
3. PAVEMENT MARKING SAME DAY EPOXY 4-INCH (YELLOW SKIPS - 12.5' LINE, 37.5' GAP)
4. PAVEMENT MARKING GROOVED PREFORMED PLASTIC TAPE, 4-INCH (SKIPS - 12.5' LINE, 37.5' GAP)
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6. PAVEMENT MARKING GROOVED PREFORMED PLASTIC TAPE, 8-INCH (CHANNELIZING)
7. PAVEMENT MARKING GROOVED PREFORMED PLASTIC TAPE, 8-INCH (SKIPS - 3' LINE, 9' GAP)
8. PAVEMENT MARKING GROOVED PREFORMED THERMOPLASTIC CROSSWALK 6-INCH
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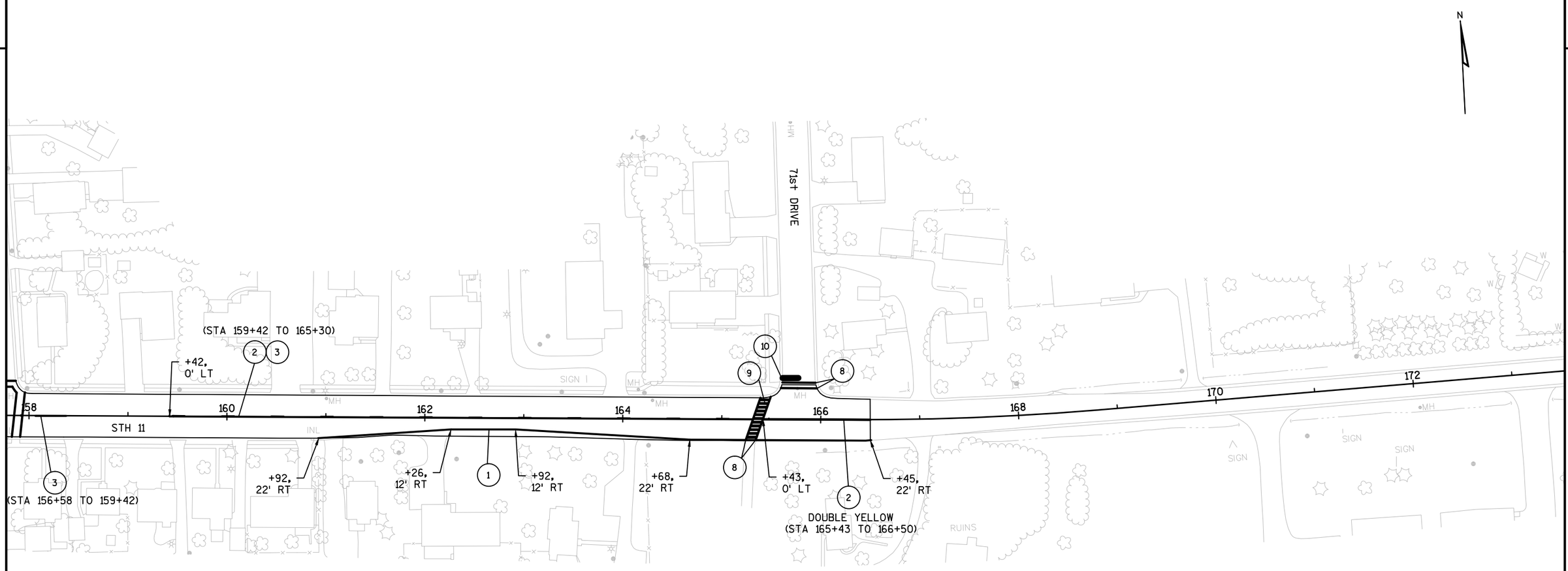
12. PAVEMENT MARKING GROOVED PREFORMED THERMOPLASTIC ARROWS TYPE 2
13. PAVEMENT MARKING GROOVED PREFORMED THERMOPLASTIC ARROWS TYPE 3
14. PAVEMENT MARKING GROOVED EPOXY 4-INCH (WHITE)

PROJECT NO: 1320-20-60	HWY: STH 11	COUNTY: RACINE	PAVEMENT MARKING	SHEET 48	E

2



LEGEND:

1. PAVEMENT MARKING EPOXY 4-INCH (WHITE)
2. PAVEMENT MARKING SAME DAY EPOXY 4-INCH (YELLOW)
3. PAVEMENT MARKING SAME DAY EPOXY 4-INCH (YELLOW SKIPS - 12.5' LINE, 37.5' GAP)
4. PAVEMENT MARKING GROOVED PREFORMED PLASTIC TAPE, 4-INCH (SKIPS - 12.5' LINE, 37.5' GAP)
5. PAVEMENT MARKING GROOVED PREFORMED PLASTIC TAPE, 4-INCH (SKIPS - 3' LINE, 9' GAP)
6. PAVEMENT MARKING GROOVED PREFORMED PLASTIC TAPE, 8-INCH (CHANNELIZING)
7. PAVEMENT MARKING GROOVED PREFORMED PLASTIC TAPE, 8-INCH (SKIPS - 3' LINE, 9' GAP)
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11. PAVEMENT MARKING GROOVED PREFORMED THERMOPLASTIC WORDS
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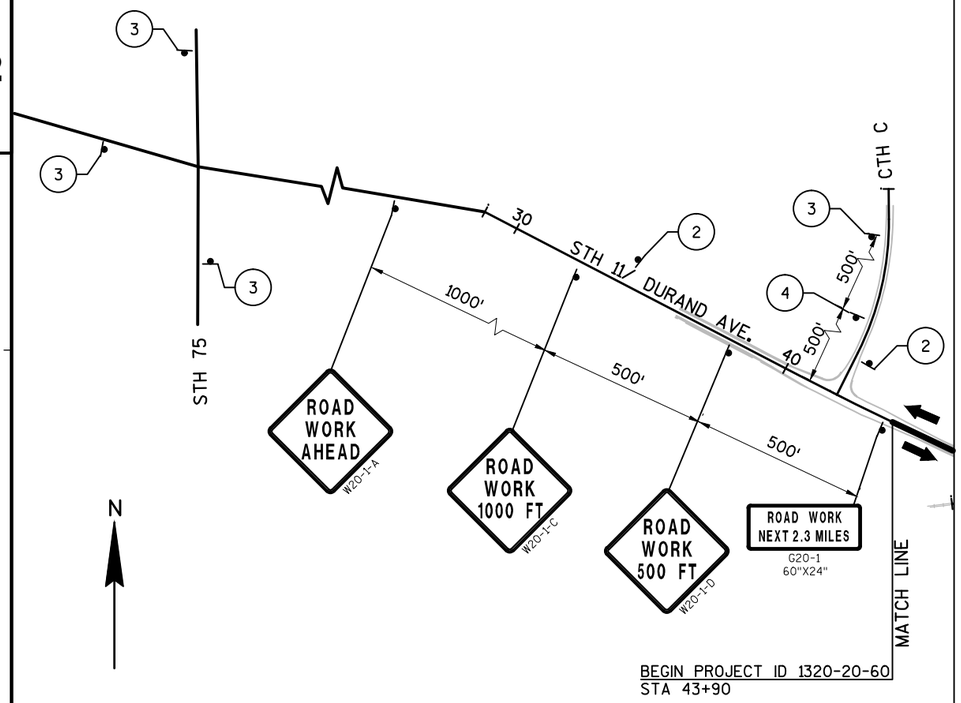
13. PAVEMENT MARKING GROOVED PREFORMED THERMOPLASTIC ARROWS TYPE 3
14. PAVEMENT MARKING GROOVED EPOXY 4-INCH (WHITE)

NOTE:
EPOXY 4-INCH YELLOW OVER CENTERLINE RUMBLE STRIPS
STA 43+90 TO 53+15 AND STA 57+15 TO 70+10
REQUIRES HIGHER APPLICATION RATE
PER STANDARD SPECIFICATION 646.3.3.2

PROJECT NO: 1320-20-60	HWY: STH 11	COUNTY: RACINE	PAVEMENT MARKING	SHEET 49	E



GENERAL NOTES:

* THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS.

* 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.

* IF A "STOP" SIGN MUST BE REMOVED FOR A WORK OPERATION, A TEMPORARY "STOP" SIGN SHALL BE PLACED PRIOR TO THE SIGN REMOVAL, OR A FLAGGER SHALL BE PROVIDED UNTIL THE SIGN IS RE-ESTABLISHED.

* STAGE 1 CONSISTS OF FULL DEPTH MILLING, RAILROAD TRACK REMOVAL AND RECONSTRUCTION, SIGNAL LOOP WORK ON STH 11, MILL & OVERLAY OF STH 11 EASTBOUND AND WESTBOUND LANES.

* STAGE 2 CONSISTS OF SIGNAL LOOP WORK ON US 45 AND MILL & OVERLAY OF US 45.

* SEE STANDARD DETAIL DRAWING "TRAFFIC CONTROL FOR LANE CLOSURE (SUITABLE FOR MOVING OPERATIONS)" FOR TRAFFIC CONTROL DURING PAVING.

* SEE STANDARD DETAIL DRAWING "TRAFFIC CONTROL, ADVANCE WARNING SIGNS 40 MPH OR LESS, TWO WAY UNDIVIDED ROAD OPEN TO TRAFFIC".

* SEE STANDARD DETAIL DRAWING "TRAFFIC CONTROL, ADVANCE WARNING SIGNS 45 MPH OR GREATER, TWO WAY UNDIVIDED ROAD OPEN TO TRAFFIC".

* CONTRACTOR SHALL CONTACT THE DEPARTMENT ELECTRICAL FIELD UNIT AT 414-266-1170 A MINIMUM OF 5 BUSINESS DAYS BEFORE START OF STAGE 1 TO MAKE NECESSARY ADJUSTMENTS TO THE TRAFFIC SIGNAL AT STH 11 AND USH 45.

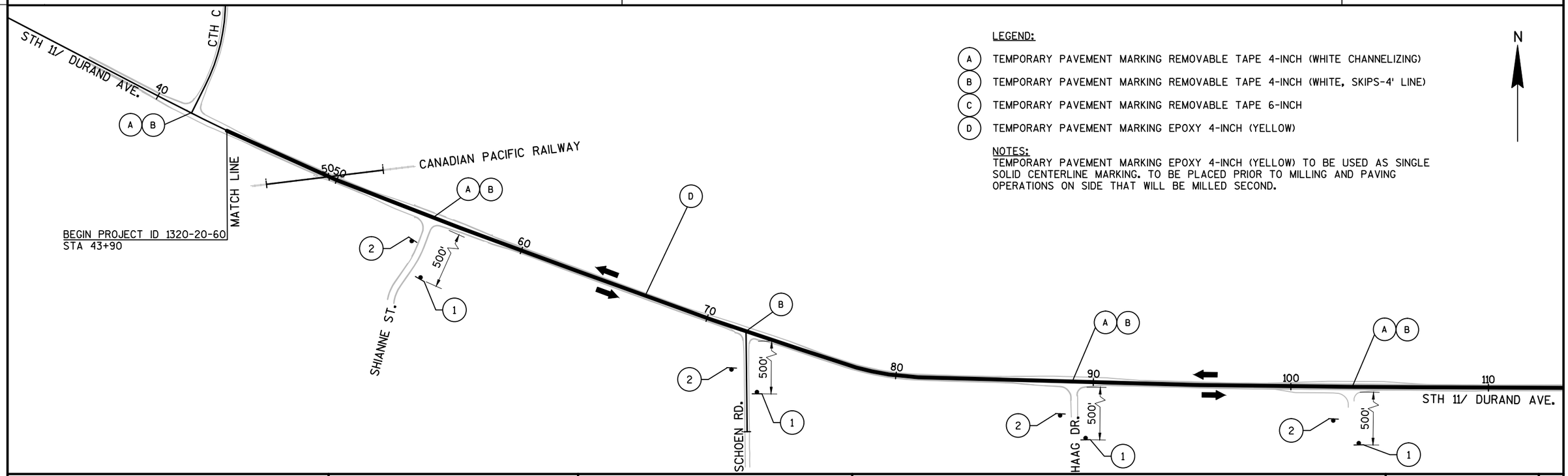
FLAGGING REQUIRED AT STH 11 AND USH 45 INTERSECTION

SIGNALS AT STH 11 AND USH 45 INTERSECTION SHALL OPERATE AT FLASHING RED

LEGEND:

- POST MOUNTED SIGN
- DIRECTION OF TRAFFIC
- WORK ZONE

1. ROAD WORK AHEAD W20-1-A
2. END ROAD WORK G20-2A 48"X24"
3. ROAD WORK AHEAD W20-1-A; 11 M1-6 24"X24"
4. ROAD WORK 500 FT W20-1-D



LEGEND:

- A TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (WHITE CHANNELIZING)
- B TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (WHITE, SKIPS-4' LINE)
- C TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 6-INCH
- D TEMPORARY PAVEMENT MARKING EPOXY 4-INCH (YELLOW)

NOTES:
TEMPORARY PAVEMENT MARKING EPOXY 4-INCH (YELLOW) TO BE USED AS SINGLE SOLID CENTERLINE MARKING. TO BE PLACED PRIOR TO MILLING AND PAVING OPERATIONS ON SIDE THAT WILL BE MILLED SECOND.

PROJECT NO:1320-20-60	HWY: STH 11	COUNTY: RACINE	TRAFFIC CONTROL - STAGE 1	SHEET 50	E

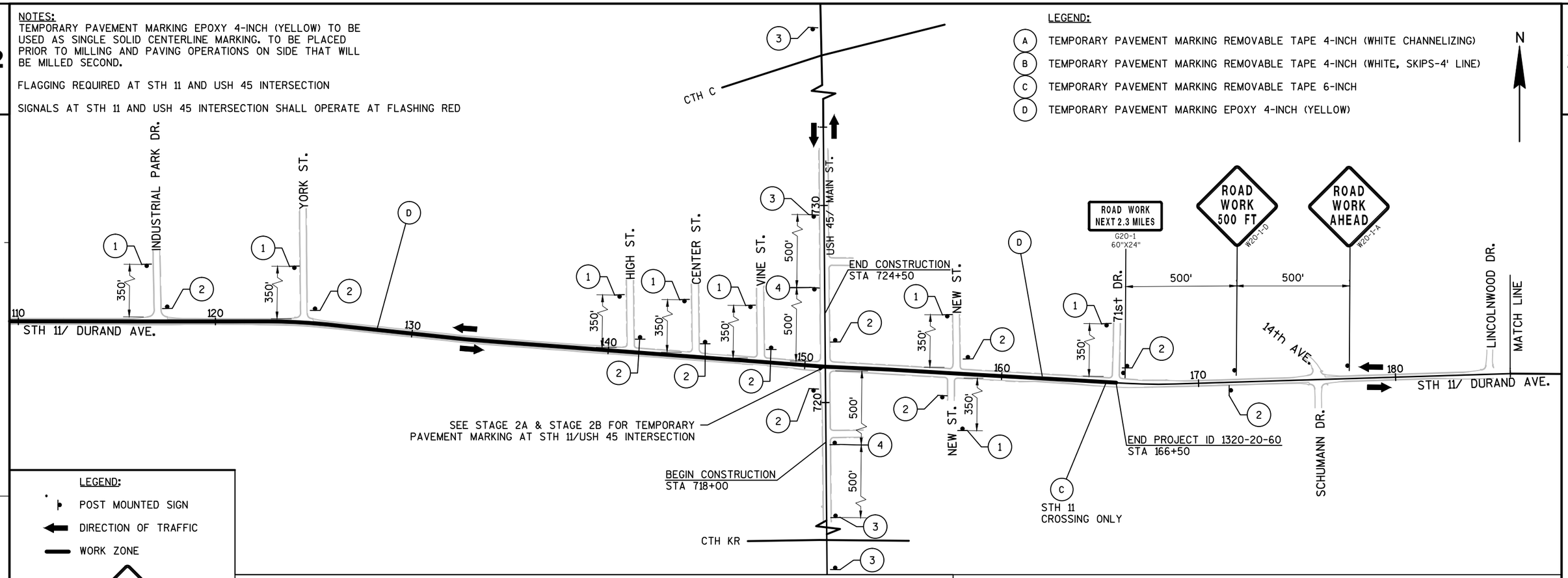
NOTES:
TEMPORARY PAVEMENT MARKING EPOXY 4-INCH (YELLOW) TO BE USED AS SINGLE SOLID CENTERLINE MARKING. TO BE PLACED PRIOR TO MILLING AND PAVING OPERATIONS ON SIDE THAT WILL BE MILLED SECOND.

FLAGGING REQUIRED AT STH 11 AND USH 45 INTERSECTION

SIGNALS AT STH 11 AND USH 45 INTERSECTION SHALL OPERATE AT FLASHING RED

LEGEND:

- (A) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (WHITE CHANNELIZING)
- (B) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (WHITE, SKIPS-4' LINE)
- (C) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 6-INCH
- (D) TEMPORARY PAVEMENT MARKING EPOXY 4-INCH (YELLOW)



LEGEND:

- POST MOUNTED SIGN
- DIRECTION OF TRAFFIC
- WORK ZONE

(1) ROAD WORK AHEAD W20-1-A

(2) END ROAD WORK G20-2A 48"X24"

(3) ROAD WORK AHEAD W20-1-A; 11 M1-6 24"X24"

(4) ROAD WORK 500 FT W20-1-D

GENERAL NOTES:

* THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS.

* 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.

* IF A "STOP" SIGN MUST BE REMOVED FOR A WORK OPERATION, A TEMPORARY "STOP" SIGN SHALL BE PLACED PRIOR TO THE SIGN REMOVAL, OR A FLAGGER SHALL BE PROVIDED UNTIL THE SIGN IS RE-ESTABLISHED.

* STAGE 1 CONSISTS OF FULL DEPTH MILLING, RAILROAD TRACK REMOVAL AND RECONSTRUCTION, SIGNAL LOOP WORK ON STH 11, MILL & OVERLAY OF STH 11 EASTBOUND AND WESTBOUND LANES.

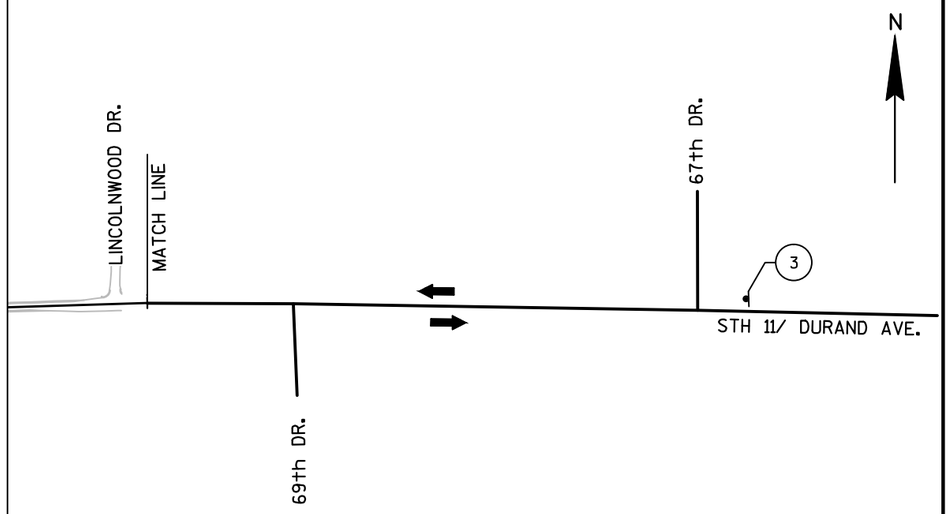
* STAGE 2 CONSISTS OF SIGNAL LOOP WORK ON US 45 AND MILL & OVERLAY OF US 45.

* SEE STANDARD DETAIL DRAWING "TRAFFIC CONTROL FOR LANE CLOSURE (SUITABLE FOR MOVING OPERATIONS)" FOR TRAFFIC CONTROL DURING PAVING.

* SEE STANDARD DETAIL DRAWING "TRAFFIC CONTROL, ADVANCE WARNING SIGNS 40 MPH OR LESS, TWO WAY UNDIVIDED ROAD OPEN TO TRAFFIC".

* SEE STANDARD DETAIL DRAWING "TRAFFIC CONTROL, ADVANCE WARNING SIGNS 45 MPH OR GREATER, TWO WAY UNDIVIDED ROAD OPEN TO TRAFFIC".

* CONTRACTOR SHALL CONTACT THE DEPARTMENT ELECTRICAL FIELD UNIT AT 414-266-1170 A MINIMUM OF 5 BUSINESS DAYS BEFORE START OF STAGE 1 TO MAKE NECESSARY ADJUSTMENTS TO THE TRAFFIC SIGNALS AT STH 11 AND USH 45.



PROJECT NO: 1320-20-60	HWY: STH 11	COUNTY: RACINE	TRAFFIC CONTROL - STAGE 1	SHEET 51	E

TEMPORARY PAVEMENT MARKING LEGEND:

1. TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (WHITE CHANNELIZING)
2. TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (WHITE SKIPS-3' LINE, 9' GAP)
3. TEMPORARY PAVEMENT MARKING STOP LINE REMOVABLE TAPE 12-INCH (WHITE)

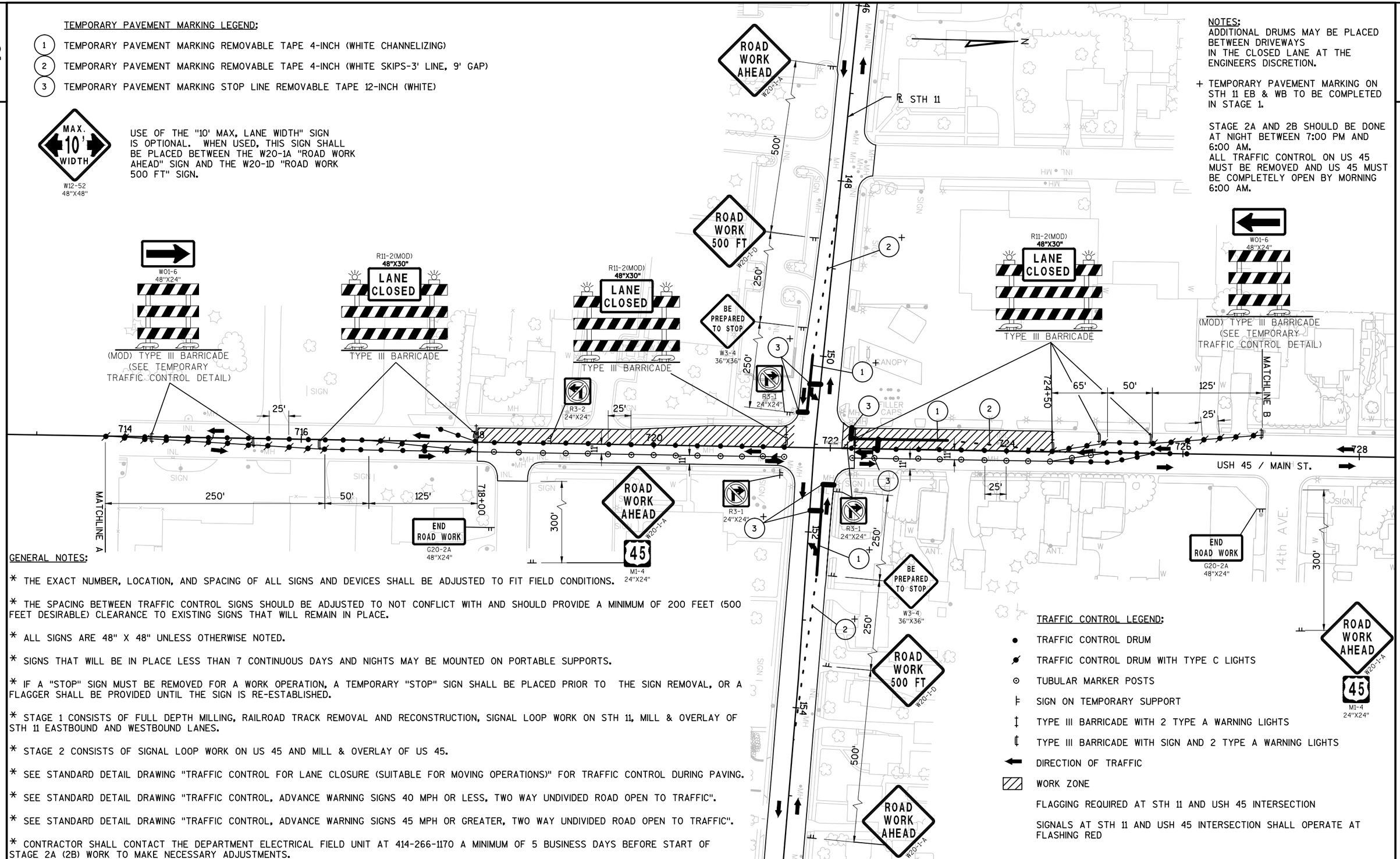
MAX. 10' WIDTH
W12-52
48"X48"

USE OF THE "10' MAX, LANE WIDTH" SIGN IS OPTIONAL. WHEN USED, THIS SIGN SHALL BE PLACED BETWEEN THE W20-1A "ROAD WORK AHEAD" SIGN AND THE W20-1D "ROAD WORK 500 FT" SIGN.

NOTES:
ADDITIONAL DRUMS MAY BE PLACED BETWEEN DRIVEWAYS IN THE CLOSED LANE AT THE ENGINEERS DISCRETION.

+ TEMPORARY PAVEMENT MARKING ON STH 11 EB & WB TO BE COMPLETED IN STAGE 1.

STAGE 2A AND 2B SHOULD BE DONE AT NIGHT BETWEEN 7:00 PM AND 6:00 AM.
ALL TRAFFIC CONTROL ON US 45 MUST BE REMOVED AND US 45 MUST BE COMPLETELY OPEN BY MORNING 6:00 AM.



GENERAL NOTES:

* THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS.

* 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.

* IF A "STOP" SIGN MUST BE REMOVED FOR A WORK OPERATION, A TEMPORARY "STOP" SIGN SHALL BE PLACED PRIOR TO THE SIGN REMOVAL, OR A FLAGGER SHALL BE PROVIDED UNTIL THE SIGN IS RE-ESTABLISHED.

* STAGE 1 CONSISTS OF FULL DEPTH MILLING, RAILROAD TRACK REMOVAL AND RECONSTRUCTION, SIGNAL LOOP WORK ON STH 11, MILL & OVERLAY OF STH 11 EASTBOUND AND WESTBOUND LANES.

* STAGE 2 CONSISTS OF SIGNAL LOOP WORK ON US 45 AND MILL & OVERLAY OF US 45.

* SEE STANDARD DETAIL DRAWING "TRAFFIC CONTROL FOR LANE CLOSURE (SUITABLE FOR MOVING OPERATIONS)" FOR TRAFFIC CONTROL DURING PAVING.

* SEE STANDARD DETAIL DRAWING "TRAFFIC CONTROL, ADVANCE WARNING SIGNS 40 MPH OR LESS, TWO WAY UNDIVIDED ROAD OPEN TO TRAFFIC".

* SEE STANDARD DETAIL DRAWING "TRAFFIC CONTROL, ADVANCE WARNING SIGNS 45 MPH OR GREATER, TWO WAY UNDIVIDED ROAD OPEN TO TRAFFIC".

* CONTRACTOR SHALL CONTACT THE DEPARTMENT ELECTRICAL FIELD UNIT AT 414-266-1170 A MINIMUM OF 5 BUSINESS DAYS BEFORE START OF STAGE 2A (2B) WORK TO MAKE NECESSARY ADJUSTMENTS.

TRAFFIC CONTROL LEGEND:

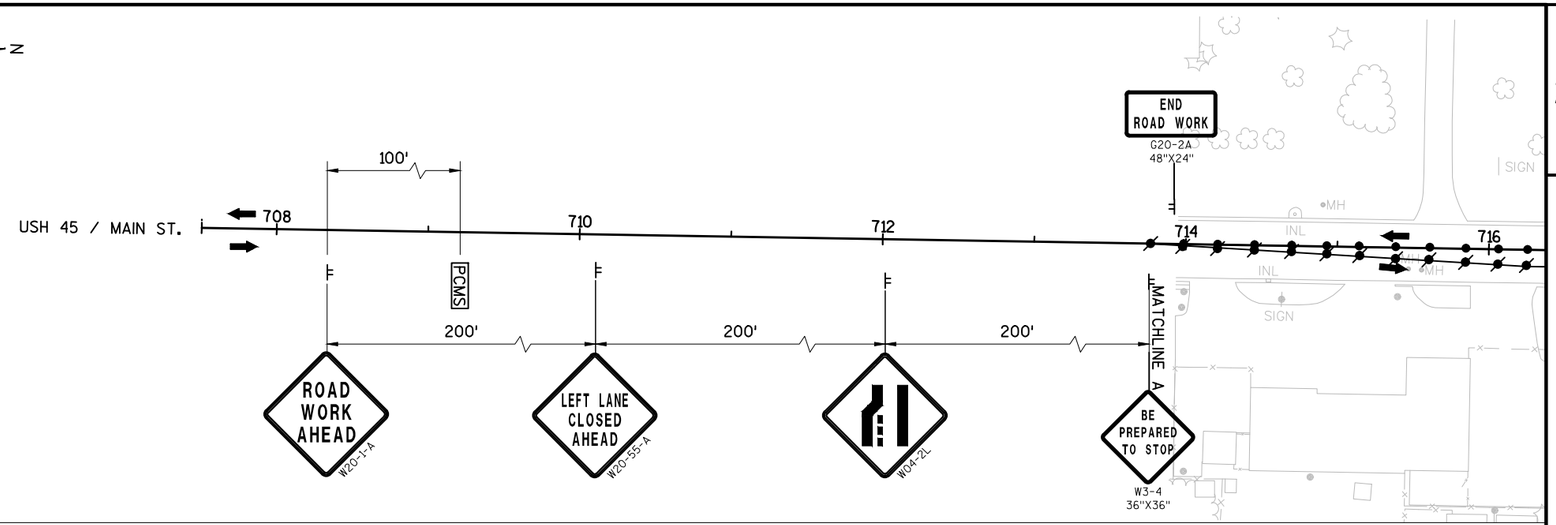
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C LIGHTS
- TUBULAR MARKER POSTS
- SIGN ON TEMPORARY SUPPORT
- TYPE III BARRICADE WITH 2 TYPE A WARNING LIGHTS
- TYPE III BARRICADE WITH SIGN AND 2 TYPE A WARNING LIGHTS
- DIRECTION OF TRAFFIC
- WORK ZONE
- FLAGGING REQUIRED AT STH 11 AND USH 45 INTERSECTION
- SIGNALS AT STH 11 AND USH 45 INTERSECTION SHALL OPERATE AT FLASHING RED

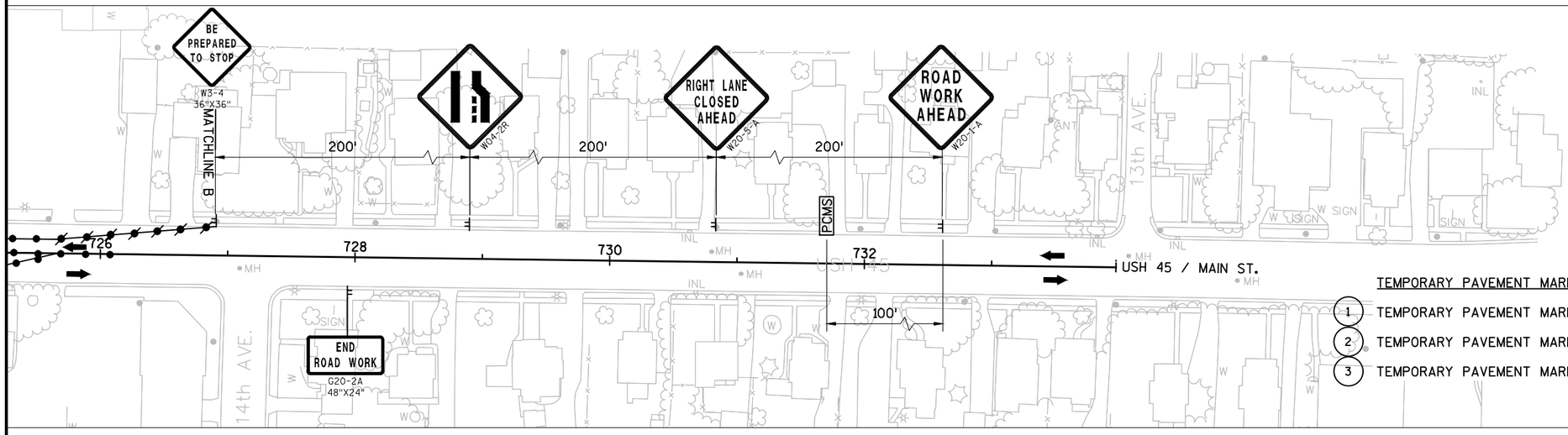
PROJECT NO: 1320-20-60	HWY: STH 11	COUNTY: RACINE	TRAFFIC CONTROL - STAGE 2A	SHEET 52	E

2

TRAFFIC CONTROL LEGEND:

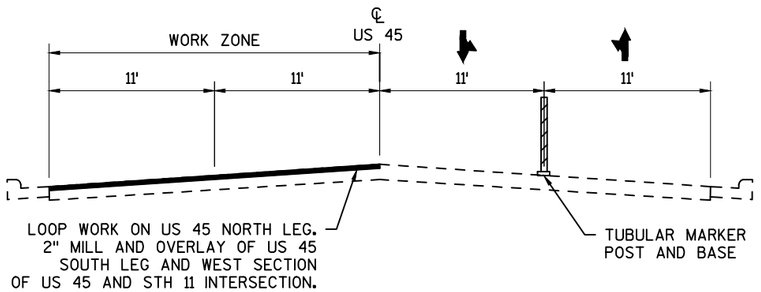
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C LIGHTS
- TUBULAR MARKER POSTS
- SIGN ON TEMPORARY SUPPORT
- TYPE III BARRICADE WITH 2 TYPE A WARNING LIGHTS
- TYPE III BARRICADE WITH SIGN AND 2 TYPE A WARNING LIGHTS
- DIRECTION OF TRAFFIC
- WORK ZONE
- PCMS — PORTABLE CHANGEABLE MESSAGE SIGN
- FLAGGING REQUIRED AT STH 11 AND USH 45 INTERSECTION
- SIGNALS AT STH 11 AND USH 45 INTERSECTION SHALL OPERATE AT FLASHING RED





TEMPORARY PAVEMENT MARKING LEGEND:

1. TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (WHITE CHANNELIZING)
2. TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (WHITE SKIPS-3' LINE, 9' GAP)
3. TEMPORARY PAVEMENT MARKING STOP LINE REMOVABLE TAPE 12-INCH (WHITE)



TRAFFIC CONTROL AT US 45 AND STH 11 INTERSECTION

STAGE 2A

NOTES:

STAGE 2A AND 2B SHOULD BE DONE AT NIGHT BETWEEN 7:00 PM AND 6:00 AM.
ALL TRAFFIC CONTROL ON US 45 MUST BE REMOVED AND US 45 MUST BE COMPLETELY OPEN BY MORNING 6:00 AM.

W12-52
48"X48"

USE OF THE "10' MAX, LANE WIDTH" SIGN IS OPTIONAL. WHEN USED, THIS SIGN SHALL BE PLACED BETWEEN THE W20-1A "ROAD WORK AHEAD" SIGN AND THE W20-1D "ROAD WORK 500 FT" SIGN.

PORTABLE CHANGEABLE MESSAGE SIGN SHOULD READ:

TRAFFIC PATTERN CHANGING AHEAD
BE PREPARED TO STOP

2

TRAFFIC CONTROL LEGEND:

- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C LIGHTS
- TUBULAR MARKER POSTS
- SIGN ON TEMPORARY SUPPORT
- TYPE III BARRICADE WITH 2 TYPE A WARNING LIGHTS
- TYPE III BARRICADE WITH SIGN AND 2 TYPE A WARNING LIGHTS
- DIRECTION OF TRAFFIC
- WORK ZONE
- FLAGGER

FLAGGING REQUIRED AT STH 11 AND USH 45 INTERSECTION

SIGNALS AT STH 11 AND USH 45 INTERSECTION SHALL OPERATE AT FLASHING RED

GENERAL NOTES:

* THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS.

* 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.

* IF A "STOP" SIGN MUST BE REMOVED FOR A WORK OPERATION, A TEMPORARY "STOP" SIGN SHALL BE PLACED PRIOR TO THE SIGN REMOVAL, OR A FLAGGER SHALL BE PROVIDED UNTIL THE SIGN IS RE-ESTABLISHED.

* STAGE 1 CONSISTS OF FULL DEPTH MILLING, RAILROAD TRACK REMOVAL AND RECONSTRUCTION, SIGNAL LOOP WORK ON STH 11, MILL & OVERLAY OF STH 11 EASTBOUND AND WESTBOUND LANES.

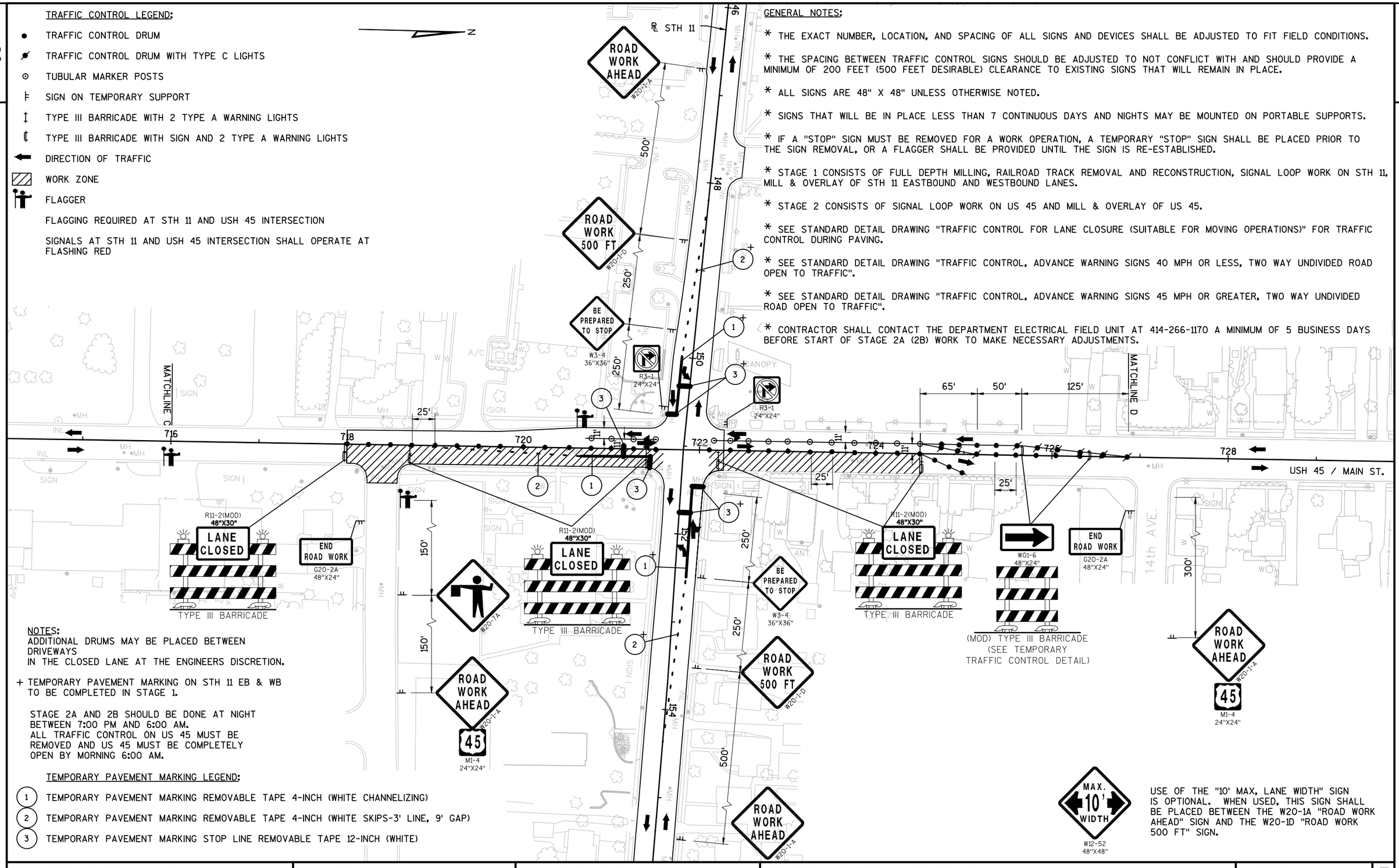
* STAGE 2 CONSISTS OF SIGNAL LOOP WORK ON US 45 AND MILL & OVERLAY OF US 45.

* SEE STANDARD DETAIL DRAWING "TRAFFIC CONTROL FOR LANE CLOSURE (SUITABLE FOR MOVING OPERATIONS)" FOR TRAFFIC CONTROL DURING PAVING.

* SEE STANDARD DETAIL DRAWING "TRAFFIC CONTROL, ADVANCE WARNING SIGNS 40 MPH OR LESS, TWO WAY UNDIVIDED ROAD OPEN TO TRAFFIC".

* SEE STANDARD DETAIL DRAWING "TRAFFIC CONTROL, ADVANCE WARNING SIGNS 45 MPH OR GREATER, TWO WAY UNDIVIDED ROAD OPEN TO TRAFFIC".

* CONTRACTOR SHALL CONTACT THE DEPARTMENT ELECTRICAL FIELD UNIT AT 414-266-1170 A MINIMUM OF 5 BUSINESS DAYS BEFORE START OF STAGE 2A (2B) WORK TO MAKE NECESSARY ADJUSTMENTS.



NOTES:
ADDITIONAL DRUMS MAY BE PLACED BETWEEN DRIVEWAYS IN THE CLOSED LANE AT THE ENGINEERS DISCRETION.

\+ TEMPORARY PAVEMENT MARKING ON STH 11 EB & WB TO BE COMPLETED IN STAGE 1.

STAGE 2A AND 2B SHOULD BE DONE AT NIGHT BETWEEN 7:00 PM AND 6:00 AM. ALL TRAFFIC CONTROL ON US 45 MUST BE REMOVED AND US 45 MUST BE COMPLETELY OPEN BY MORNING 6:00 AM.

TEMPORARY PAVEMENT MARKING LEGEND:

1. TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (WHITE CHANNELIZING)
2. TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (WHITE SKIPS-3' LINE, 9' GAP)
3. TEMPORARY PAVEMENT MARKING STOP LINE REMOVABLE TAPE 12-INCH (WHITE)

MAX. 10' WIDTH
W12-52
48"X48"

USE OF THE "10' MAX, LANE WIDTH" SIGN IS OPTIONAL. WHEN USED, THIS SIGN SHALL BE PLACED BETWEEN THE W20-1A "ROAD WORK AHEAD" SIGN AND THE W20-1D "ROAD WORK 500 FT" SIGN.

PROJECT NO: 1320-20-60	HWY: STH 11	COUNTY: RACINE	TRAFFIC CONTROL - STAGE 2B	SHEET 54	E

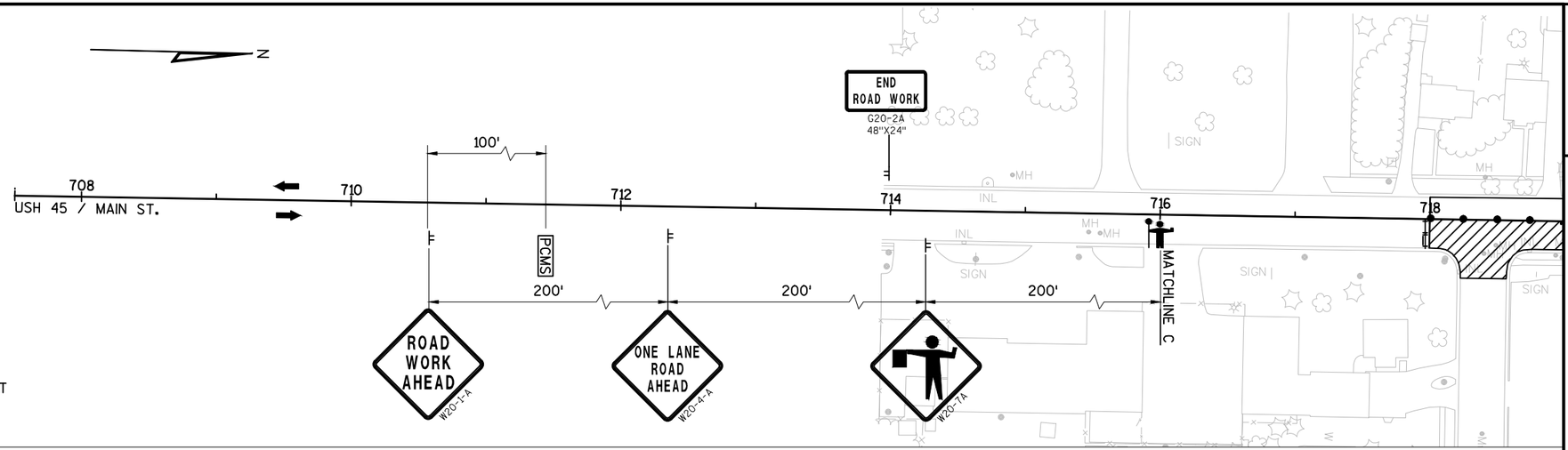
2

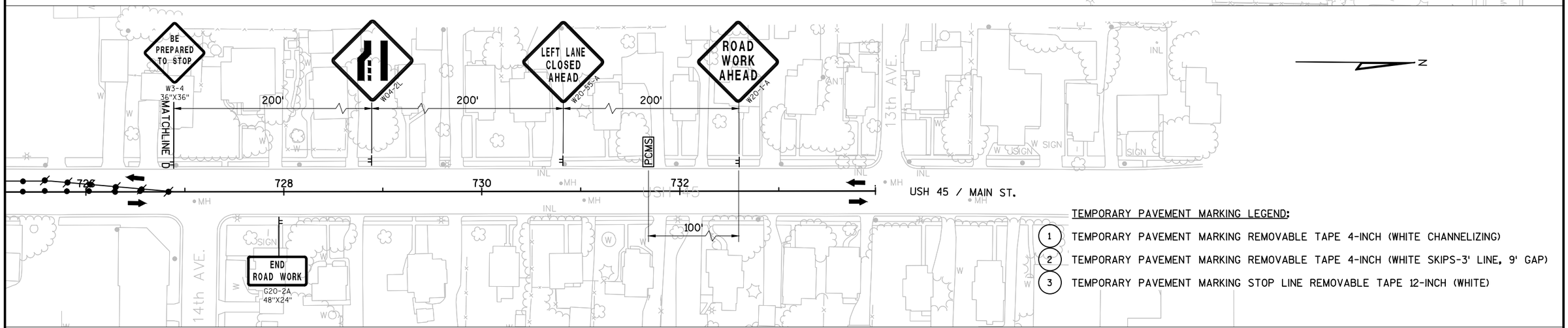
TRAFFIC CONTROL LEGEND:

- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C LIGHTS
- TUBULAR MARKER POSTS
- SIGN ON TEMPORARY SUPPORT
- TYPE III BARRICADE WITH 2 TYPE A WARNING LIGHTS
- TYPE III BARRICADE WITH SIGN AND 2 TYPE A WARNING LIGHTS
- DIRECTION OF TRAFFIC
- WORK ZONE
- PCMS PORTABLE CHANGEABLE MESSAGE SIGN

FLAGGING REQUIRED AT STH 11 AND USH 45 INTERSECTION

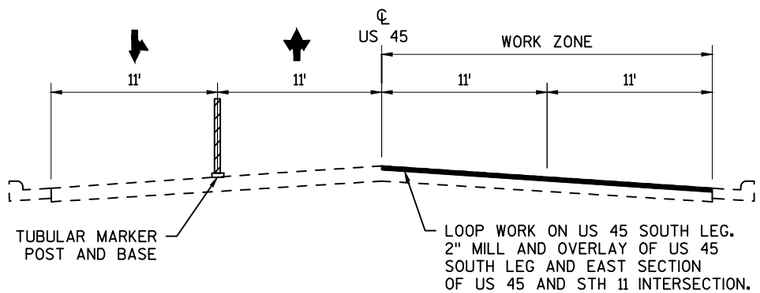
SIGNALS AT STH 11 AND USH 45 INTERSECTION SHALL OPERATE AT FLASHING RED





TEMPORARY PAVEMENT MARKING LEGEND:

1. TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (WHITE CHANNELIZING)
2. TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (WHITE SKIPS-3' LINE, 9' GAP)
3. TEMPORARY PAVEMENT MARKING STOP LINE REMOVABLE TAPE 12-INCH (WHITE)



TRAFFIC CONTROL AT US 45 AND STH 11 INTERSECTION

STAGE 2B

NOTES:

STAGE 2A AND 2B SHOULD BE DONE AT NIGHT BETWEEN 7:00 PM AND 6:00 AM.
ALL TRAFFIC CONTROL ON US 45 MUST BE REMOVED AND US 45 MUST BE COMPLETELY OPEN BY MORNING 6:00 AM.

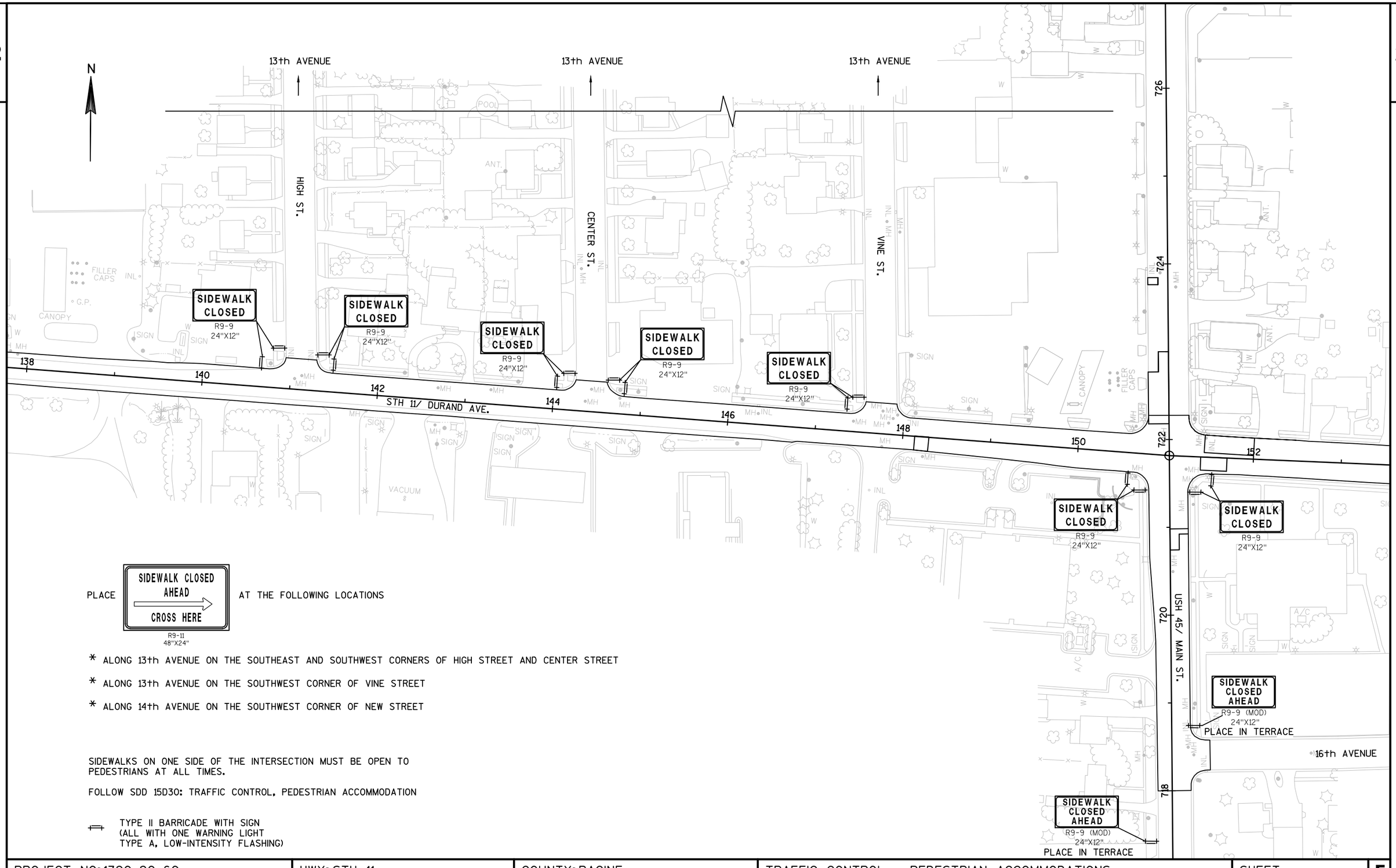
USE OF THE "10' MAX, LANE WIDTH" SIGN IS OPTIONAL. WHEN USED, THIS SIGN SHALL BE PLACED BETWEEN THE W20-1A "ROAD WORK AHEAD" SIGN AND THE W20-1D "ROAD WORK 500 FT" SIGN.

PORTABLE CHANGEABLE MESSAGE SIGN SHOULD READ:

TRAFFIC PATTERN CHANGING AHEAD
BE PREPARED TO STOP

PROJECT NO: 1320-20-60	HWY: STH 11	COUNTY: RACINE	TRAFFIC CONTROL - STAGE 2B	SHEET 55	E

2



PLACE

AT THE FOLLOWING LOCATIONS

* ALONG 13th AVENUE ON THE SOUTHEAST AND SOUTHWEST CORNERS OF HIGH STREET AND CENTER STREET

* ALONG 13th AVENUE ON THE SOUTHWEST CORNER OF VINE STREET

* ALONG 14th AVENUE ON THE SOUTHWEST CORNER OF NEW STREET

SIDEWALKS ON ONE SIDE OF THE INTERSECTION MUST BE OPEN TO PEDESTRIANS AT ALL TIMES.

FOLLOW SDD 15D30: TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION

TYPE II BARRICADE WITH SIGN
(ALL WITH ONE WARNING LIGHT
TYPE A, LOW-INTENSITY FLASHING)

PROJECT NO:1320-20-60	HWY: STH 11	COUNTY: RACINE	TRAFFIC CONTROL - PEDESTRIAN ACCOMMODATIONS	SHEET 56	E

2

N

14th AVENUE

NEW ST.

71st DR.

SIDEWALK CLOSED
R9-9
24"X12"

SIDEWALK CLOSED AHEAD
CROSS HERE
R9-11
48"X24"
PLACE IN TERRACE

SIDEWALK CLOSED
R9-9
24"X12"

154 156 158 160 162 164 166 168

STH 11/ DURAND AVE.

SIDEWALK CLOSED
R9-9
24"X12"

SIDEWALK CLOSED
R9-9
24"X12"

SIDEWALK CLOSED AHEAD
R9-9 (MOD)
24"X12"
PLACE IN TERRACE

NEW ST.

UNION GROVE BRONCO TRAIL

RUINS

16th AVENUE

PLACE SIDEWALK CLOSED AHEAD / CROSS HERE (R9-11, 48"X24") AT THE FOLLOWING LOCATIONS

* ALONG 13th AVENUE ON THE SOUTHEAST AND SOUTHWEST CORNERS OF HIGH STREET AND CENTER STREET

* ALONG 13th AVENUE ON THE SOUTHWEST CORNER OF VINE STREET

* ALONG 14th AVENUE ON THE SOUTHWEST CORNER OF NEW STREET

SIDEWALKS ON ONE SIDE OF THE INTERSECTION MUST BE OPEN TO PEDESTRIANS AT ALL TIMES.

FOLLOW SDD 15D30: TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION

TYPE II BARRICADE WITH SIGN
(ALL WITH ONE WARNING LIGHT
TYPE A, LOW-INTENSITY FLASHING)

PROJECT NO: 1320-20-60	HWY: STH 11	COUNTY: RACINE	TRAFFIC CONTROL - PEDESTRIAN ACCOMMODATIONS	SHEET 57	E

2

LEGEND

SIGN ON PORTABLE OR PERMANENT SUPPORT

DIRECTION OF TRAFFIC

WORK AREA

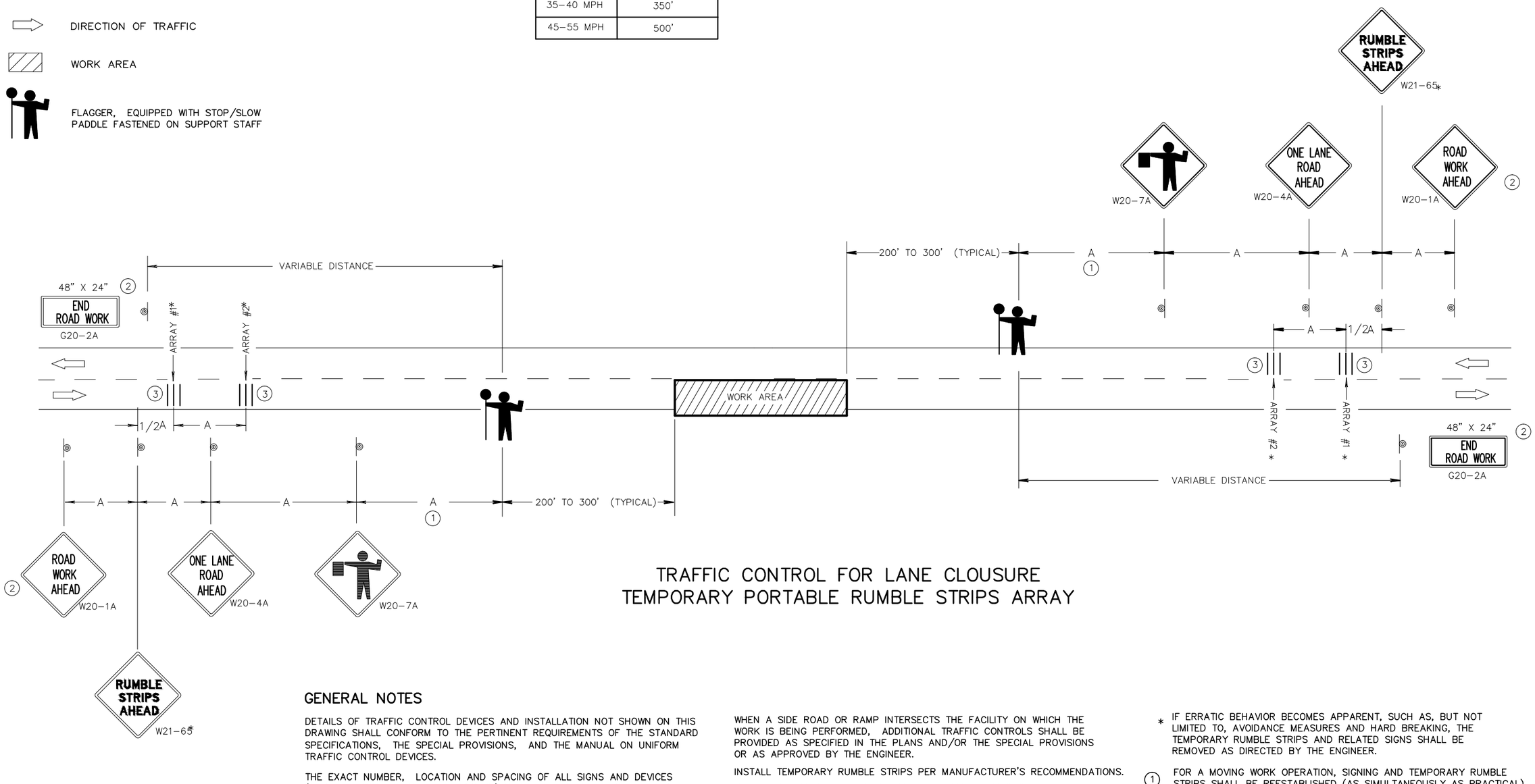
FLAGGER, EQUIPPED WITH STOP/SLOW PADDLE FASTENED ON SUPPORT STAFF

SIGN SPACING TABLE

SPEED LIMIT	SIGN SPACING A
25–35 MPH	200'
35–40 MPH	350'
45–55 MPH	500'

W03–4

USE OF THE "BE PREPARED TO STOP" SIGN IS OPTIONAL. WHEN USED, THIS SIGN SHALL BE LOCATED BETWEEN THE W20–7A AND W20–4A SIGNS, USING SPACING A.



TRAFFIC CONTROL FOR LANE CLOUSURE
TEMPORARY PORTABLE RUMBLE STRIPS ARRAY

GENERAL NOTES

DETAILS OF TRAFFIC CONTROL DEVICES AND INSTALLATION NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS, THE SPECIAL PROVISIONS, AND THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.

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

THE FIRST ADVANCE WARNING SIGN SHOULD TYPICALLY BE LOCATED IN ADVANCE OF THE ANTICIPATED TRAFFIC BACKUP OR QUEUE.

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

WHEN A SIDE ROAD OR 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.

INSTALL TEMPORARY RUMBLE STRIPS PER MANUFACTURER'S RECOMMENDATIONS.

PLACE ADVANCE SIGNING PRIOR TO INSTALLING TEMPORARY RUMBLE STRIPS.

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

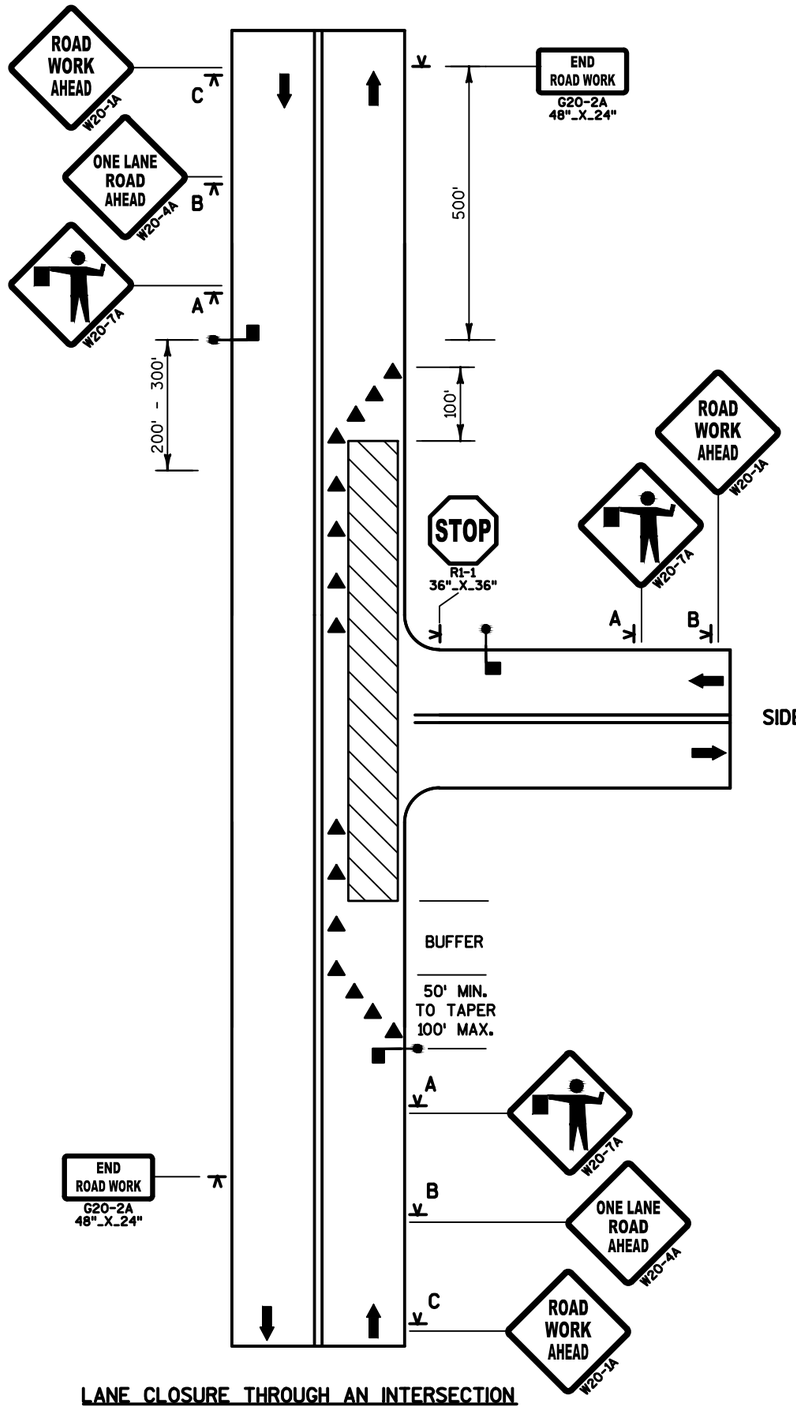
FLAGGERS SHALL BE IN SIGHT OF EACH OTHER OR IN DIRECT COMMUNICATION AT ALL TIMES. THEY SHALL BE EQUIPPED WITH STOP/SLOW PADDLES FASTENED ON SUPPORT STAFFS. WHEN THE FLAGGING OPERATION IS NOT IN EFFECT, REMOVE TEMPORARY RUMBLE STRIPS PRIOR TO COVERING OR REMOVING ALL ADVANCE SIGNING.

* IF ERRATIC BEHAVIOR BECOMES APPARENT, SUCH AS, BUT NOT LIMITED TO, AVOIDANCE MEASURES AND HARD BREAKING, THE TEMPORARY RUMBLE STRIPS AND RELATED SIGNS SHALL BE REMOVED AS DIRECTED BY THE ENGINEER.

(1) FOR A MOVING WORK OPERATION, SIGNING AND TEMPORARY RUMBLE STRIPS SHALL BE REESTABLISHED (AS SIMULTANEOUSLY AS PRACTICAL) AT APPROXIMATELY 3,500 FOOT INTERVALS IN THE MOVING WORK OPERATION OR AS APPROVED BY THE ENGINEER.

(2) SIGN NOT REQUIRED IF FLAGGING OPERATION OCCURS WITHIN A SIGNED ROAD WORK ZONE AREA.

(3) EACH RUMBLE STRIP ARRAY CONSISTS OF THREE RUMBLE STRIPS SPACED 8 – 10 FEET CENTER TO CENTER, PLACED TRANSVERSE ACROSS THE LANE AT LOCATIONS SHOWN.



LANE CLOSURE THROUGH AN INTERSECTION
FLAGGER ON SIDE ROAD
(WORK AREA ON THROUGH ROAD)

LEGEND

- CHANNELIZING DEVICE
- PORTABLE SIGN SUPPORT
- WORK AREA
- TRAFFIC FLOW
- FLAGGER
- POST MOUNTED SIGN

SPEED LIMIT (MPH)	SIGN SPACING A, B, C ,(FT)	BUFFER (FT)
25	200	55
30	200	85
35	350	120
40	350	170
45	500	220
50	500	280
55	500	335

NOTES

1. DEPENDING ON TRAFFIC CONDITIONS, CONSIDER ADDITIONAL TRAFFIC CONTROL ON THE SIDE ROAD APPROACHES, SUCH AS FLAGGERS AND APPROPRIATE SIGNS.

GENERAL NOTES

DETAILS OF TRAFFIC CONTROL DEVICES AND INSTALLATION NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATION, THE SPECIAL PROVISIONS, AND THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.

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

THE FIRST ADVANCE WARNING SIGN SHOULD TYPICALLY BE LOCATED IN ADVANCE OF THE ANTICIPATED TRAFFIC BACKUP QUEUE.

FLAGGERS SHALL BE IN SIGHT OF EACH OTHER OR IN DIRECT COMMUNICATION AT ALL TIMES. THEY SHALL BE EQUIPPED WITH STOP/SLOW PADDLES FASTENED ON SUPPORT STAFFS. WHEN THE FLAGGING OPERATION IS NOT IN EFFECT, THE "FLAGGER AHEAD", THE "ROAD CONSTRUCTION AHEAD" AND THE ONE LANE ROAD AHEAD" SIGN SHALL BE COVERED OR REMOVED AND THE HIGHWAY RESTORED TO NORMAL OPERATION.

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

N= 173090.990
E= 557180.540
FOUND BRASS CAP MON.

PI STA = 13+88.29
Y = 171211.34
X = 557201.18
DELTA = 27°24'41"
D = 5°59'44"
T = 233.06
L = 457.20
R = 955.65
PC STA = 11+55.23
PT STA = 16+12.43

FOUND DOT PI BRASS CAP MON.
BP: 28+81.56

STH 11

30 S62° 31' 25.06"E
1167.86

BP: 10+00.86

EP: 17+12.43
PT: 16+12.43
PC: 11+55.23
PC: 40+49.42
17 CTH C
NO° 37' 45.17"W
100.00

BP: 46+82.34
FOUND DOT PI BRASS CAP MON.
EP: 52+77.06
PT: 55+06.88

Alignment=Ali-STH11_1320-20-30
Station=41+90.08
Offset=0.000
Y=170865.4740
X=557026.6067

N26° 46' 55.83"E
454.37

FOUND BRASS CAP MON.

Y = 170438.540
X = 557209.670
N83° 02' 38.74"E
594.72

Alignment=Ali-STH11_1320-20-30
Station=49+56.47
Offset=0.000
Y=170543.3746
X=557721.8726

60 S69° 48' 39.06"E
1394.86

PI STA = 47+79.13
Y = 170592.93
X = 557548.82
DELTA = 7°17'14"
D = 0°30'00"
T = 729.71
L = 1457.46
R = 11459.28
PC STA = 40+49.42
PT STA = 55+06.88

NO MONUMENT FOUND
COMPUTED POSITION
Y = 170448.140
X = 559864.580

Alignment=Ali-STH11_1320-20-30
Station=72+08.16
Offset=0.000
Y=169762.4177
X=559833.4269

PI: 69+01.74

EP: 55+08.61

70 S71° 29' 26.75"E
812.21

BP: 50+00.00

50 NO° 37' 10.20"W
508.61

SCHOEN RD.

PC: 77+13.95
PT: 81+38.05

80 90 S88° 26' 43.21"E
1567.76

PI: 97+05.81

100 S89° 32' 48.01"E
1184.19

PI: 108+90.00

110 S

PI STA = 79+27.56
Y = 169534.04
X = 560515.62
DELTA = 16°57'16"
D = 3°59'52"
T = 213.61
L = 424.10
R = 1433.19
PC STA = 77+13.95
PT STA = 81+38.05

FOUND BRASS CAP MON.
Y = 170457.740
X = 562519.500

N

2

N

NO MONUMENT FOUND
COMPUTED POSITION
FROM TIES
Y = 170458.440
X = 565027.660

CUT "V" IN CONC.
0.3' NE OF BRASS CAP
HELD AS CORNER
Y = 170461.170
X = 567674.300

FOUND
BRASS CAP MON.
Y = 170433.880
X = 570315.010

EP: 733+97.64

PI: 108+90.00

110 S89° 57' 21.84"E
1377.73

PC: 122+67.73

120

PT: 125+69.34

PI: 133+01.69

130

S83° 55' 58.00"E
732.35

140 S85° 39' 14.70"E
1802.52

Alignment=Ali-US45_1320-20-30
Station=721+81.64
Offset=0.000
Y=169245.2157
X=567684.8426

PI: 151+04.21

150

PI: 153+67.89

160 S86° 42' 00.12"E
1261.23

PC: 166+29.13

PT: 168+80.73

170

N88° 13' 32.32"E
1701.62

180

EP: 185+82.34

STH 11

S87° 34' 19.79"E
263.69

PI STA = 124+18.67
Y = 169475.17
X = 565009.16
DELTA = 6°01'24"
D = 1°59'50"
T = 150.94
L = 301.60
R = 2868.95
PC STA = 122+67.73
PT STA = 125+69.34

PI STA = 167+55.01
Y = 169154.20
X = 569333.11
DELTA = 5°04'28"
D = 2°01'01"
T = 125.88
L = 251.60
R = 2840.89
PC STA = 166+29.13
PT STA = 168+80.73

730

720

N0° 29' 48.31"W
2647.10

710

707

USH 45

BP: 707+50.54

Y = 167826.870
X = 565055.520
FOUND
ALUM. CAP MON.

Y = 167814.170
X = 567697.250
FOUND
ALUM. CAP MON.

Y = 167798.010
X = 570351.740
FOUND
BRASS CAP MON.

PROJECT NO: 1320-20-30	HWY: STH 11	COUNTY: RACINE	PLAN: ALIGNMENT LAYOUT	SHEET 61	E

FILE NAME : N:\PDS\C3D\CAD\13202030\027201_AD.DWG PLOT DATE : 6/16/2014 2:51 PM PLOT BY : SCHMIDT, JUDENE M PLOT NAME : _____ PLOT SCALE : ********** WISDOT/CADDS SHEET 42

N

Curve Data											
Curve		PI Coordinates									
No.	PI	Y	X	Δ	D	T	L	E	R	PC	PT
FNW2	4762+72.98	175855.68	593058.83	27° 53' 14.55"	6° 44' 26.43"	211.04	413.72	25.81	850.00	4760+60.94	4764+75.65
FNW3	4774+69.58	176699.74	593918.78	-45° 49' 49.91"	6° 44' 26.44"	359.32	679.91	72.83	850.00	4771+10.26	4777+90.17

Curve Data											
Curve		PI Coordinates									
No.	PI	Y	X	Δ	D	T	L	E	R	PC	PT
200	36+70.73	175699.42	592745.84	13°30'34.92"	5°43'46.48"	118.44	235.79	6.99	1000.00	35+52.29	37+88.08
201	42+22.27	175569.04	593282.88	-27° 49' 08.92"	6° 51' 42.37"	206.79	405.42	25.22	835.00	40+15.48	44+20.90
202	47+56.48	175701.84	593808.74	15°13'36.77"	6°51'42.37"	111.61'	221.91	7.43	835.00	46+44.87	48+66.78
B1	75B+68.47	175256.40	594280.04	37° 19' 14.78"	25° 27' 53.25"	75.98	146.56	12.48	225.00	74B+92.49	76B+39.04

CONTROL POINTS (CP)

NO.	COORDINATES	DESCRIPTION	ELEVATION
CP75175	Y=174442.0610 X=591764.2640	STA. 111+05.38, 110.22' RT BERNSTEN FENO S ± S STH 11, WEST OF MOTEL	768.40
HMOD9003	Y=174975.3113 X=594430.3300	STA. 201+96.67, 175.23' RT K3 RESET	759.61

POINT SEC4787
Y=175702.44
X=591478.72

N 17°38'48" W

WEST FRONTAGE RD STA. 4760+46.74 =
58TH RD. STA. 39+21.14
Y = 175640.09
X = 592990.25

PC 201
PC FNW2
PI 201
PT 201
PT FNW2
CURVE FNW2
CURVE 201
N 89° 51' 48.25" W
2639.16'
SECTION LINE

END CONSTRUCTION
I.D. 1320-20-60
STA. 4766+14
Y = 176100.42
X = 593308.18

BEGIN CONSTRUCTION
I.D. 1320-20-60
STA. 4761+75
Y = 175759.74
X = 593036.19

N 45°32'03" W

NO FIELD MONUMENT
Y=173044.02
X=594120.76

R/L 58TH ROAD
N 75° 49' 37.75" E
PC 202
PI 202
PT 202
CURVE 202

R/L SWALE 1
R/L EXISTING WEST FRONTAGE ROAD
R/L SB OFF RAMP

PC FNW3
CURVE FNW3

POINT SEC3104
Y=178368.73
X=594112.87

R/L WEST FRONTAGE ROAD
PT FNW3
N 0°17'47" W

2652.13'
N 00°03'45" W
SECTION LINE
2672.58'
N 0° 6' 25.43" W
SECTION LINE

R/L IH 94

R/L SWALE 2
R/L ACCESS ROAD "B"
CURVE B1
HMOD9003
R/L STH 11
1672.58'
S 88° 56' 45.47" E

R/L NB ON RAMP
R/L EXISTING WEST FRONTAGE ROAD
R/L ACCESS ROAD "A"
R/L EAST FRONTAGE ROAD

POINT SEC3117
CONCRETE MON.
W/ ALUMINUM CAP
Y=175696.15
X=594117.87

POINT SEC3106
Y=175650.19
X=596615.74

PROJECT NO: 1320-20-60	HWY: STH 11	COUNTY: RACINE	ALIGNMENT LAYOUT: WEST FRONTAGE/58TH ROAD DITCH	SHEET 62	E

DATE 03MAR16 E S T I M A T E O F Q U A N T I T I E S

LINE NUMBER	ITEM	ITEM DESCRIPTION	UNIT	TOTAL	1320-20-60 QUANTITY
0010	204.0125	Removing Asphaltic Surface Milling	TON	6,890.000	6,890.000
0020	204.0150	Removing Curb & Gutter	LF	160.000	160.000
0030	204.0155	Removing Concrete Sidewalk	SY	90.000	90.000
0040	204.0200	Removing Railroad Track	LF	110.000	110.000
0050	205.0100	Excavation Common	CY	90.000	90.000
0060	213.0100	Finishing Roadway (project) 01. 1320-20-60	EACH	1.000	1.000
0070	305.0110	Base Aggregate Dense 3/4-Inch	TON	360.000	360.000
0080	305.0120	Base Aggregate Dense 1 1/4-Inch	TON	42.000	42.000
0090	311.0110	Breaker Run	TON	50.000	50.000
0100	390.0403	Base Patching Concrete Shes	SY	220.000	220.000
0110	440.4410	Incentive IRI Ride	DOL	9,288.000	9,288.000
0120	455.0605	Tack Coat	GAL	2,530.000	2,530.000
0130	460.2000	Incentive Density HMA Pavement	DOL	3,890.000	3,890.000
0140	460.4110.S	Reheating HMA Pavement Longitudinal Joints	LF	11,700.000	11,700.000
0150	460.6224	HMA Pavement 4 MT 58-28 S	TON	6,890.000	6,890.000
0160	465.0110	Asphaltic Surface Patching	TON	140.000	140.000
0170	465.0475	Asphalt Center Line Rumble Strips 2-Lane Rural	LF	2,220.000	2,220.000
0180	601.0411	Concrete Curb & Gutter 30-Inch Type D	LF	100.000	100.000
0190	602.0410	Concrete Sidewalk 5-Inch	SF	90.000	90.000
0200	602.0505	Curb Ramp Detectable Warning Field Yellow	SF	96.000	96.000
0210	606.0100	Riprap Light	CY	9.000	9.000
0220	619.1000	Mobilization	EACH	1.000	1.000
0230	625.0100	Topsoil	SY	50.000	50.000
0240	628.1504	Silt Fence	LF	410.000	410.000
0250	628.1520	Silt Fence Maintenance	LF	150.000	150.000
0260	628.1905	Mobilizations Erosion Control	EACH	4.000	4.000
0270	628.1910	Mobilizations Emergency Erosion Control	EACH	2.000	2.000
0280	628.7015	Inlet Protection Type C	EACH	13.000	13.000
0290	628.7020	Inlet Protection Type D	EACH	11.000	11.000
0300	628.7504	Temporary Ditch Checks	LF	35.000	35.000
0310	628.7555	Culvert Pipe Checks	EACH	1.000	1.000
0320	631.1000	Sod Lawn	SY	50.000	50.000
0330	634.0618	Posts Wood 4x6-Inch X 18-FT	EACH	106.000	106.000
0340	637.2210	Signs Type II Reflective H	SF	636.510	636.510
0350	637.2215	Signs Type II Reflective H Folding	SF	29.840	29.840
0360	637.2230	Signs Type II Reflective F	SF	411.000	411.000
0370	638.2602	Removing Signs Type II	EACH	126.000	126.000
0380	638.3000	Removing Small Sign Supports	EACH	114.000	114.000
0390	642.5001	Field Office Type B	EACH	1.000	1.000
0400	643.0100	Traffic Control (project) 01. 1320-20-60	EACH	1.000	1.000
0410	643.0300	Traffic Control Drums	DAY	135.000	135.000
0420	643.0410	Traffic Control Barricades Type II	DAY	32.000	32.000
0430	643.0420	Traffic Control Barricades Type III	DAY	26.000	26.000
0440	643.0500	Traffic Control Flexible Tubular Marker Posts	EACH	45.000	45.000
0450	643.0600	Traffic Control Flexible Tubular Marker Bases	EACH	45.000	45.000
0460	643.0705	Traffic Control Warning Lights Type A	DAY	74.000	74.000
0470	643.0715	Traffic Control Warning Lights Type C	DAY	40.000	40.000
0480	643.0900	Traffic Control Signs	DAY	524.000	524.000
0490	643.1050	Traffic Control Signs PCMS	DAY	4.000	4.000

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DATE 03MAR16 E S T I M A T E O F Q U A N T I T I E S

LINE NUMBER	ITEM	ITEM DESCRIPTION	UNIT	TOTAL	1320-20-60 QUANTITY
0500	645.0130	Geotextile Fabric Type R	SY	27.000	27.000
0510	646.0106	Pavement Marking Epoxy 4-Inch	LF	5,465.000	5,465.000
0520	646.0406	Pavement Marking Same Day Epoxy 4-Inch	LF	18,785.000	18,785.000
0530	648.0100	Locating No-Passing Zones	MI	2.320	2.320
0540	649.0400	Temporary Pavement Marking Removable Tape 4-Inch	LF	1,106.000	1,106.000
0550	649.0403	Temporary Pavement Marking Epoxy 4-Inch	LF	12,702.000	12,702.000
0560	649.0600	Temporary Pavement Marking Removable Tape 6-Inch	LF	46.000	46.000
0570	649.1000	Temporary Pavement Marking Stop Line Removable Tape 12-Inch	LF	96.000	96.000
0580	650.4500	Construction Staking Subgrade	LF	530.000	530.000
0590	650.8000	Construction Staking Resurfacing Reference	LF	11,700.000	11,700.000
0600	650.9910	Construction Staking Supplemental Control (project) 01. 1320-20-60	LS	1.000	1.000
0610	650.9920	Construction Staking Slope Stakes	LF	530.000	530.000
0620	652.0225	Conduit Rigid Nonmetallic Schedule 40 2-Inch	LF	29.000	29.000
0630	652.0800	Conduit Loop Detector	LF	664.000	664.000
0640	653.0135	Pull Boxes Steel 24x36-Inch	EACH	2.000	2.000
0650	655.0700	Loop Detector Lead In Cable	LF	1,976.000	1,976.000
0660	655.0800	Loop Detector Wire	LF	2,174.000	2,174.000
0670	690.0150	Sawing Asphalt	LF	2,810.000	2,810.000
0680	SPV.0060	Special 01. PAVEMENT MARKING GROOVED PREFORMED THERMOPLASTIC WORDS	EACH	4.000	4.000
0690	SPV.0060	Special 02. PAVEMENT MARKING GROOVED PREFORMED THERMOPLASTIC ARROWS TYPE 2	EACH	6.000	6.000
0700	SPV.0060	Special 03. PAVEMENT MARKING GROOVED PREFORMED THERMOPLASTIC ARROWS TYPE 3	EACH	2.000	2.000
0710	SPV.0060	Special 04. Temporary Portable Rumble Strips	EACH	4.000	4.000
0720	SPV.0090	Special 01. PAVEMENT MARKING GROOVED PREFORMED PLASTIC TAPE, 8-INCH	LF	1,018.000	1,018.000
0730	SPV.0090	Special 02. PAVEMENT MARKING GROOVED PREFORMED THERMOPLASTIC CROSSWALK 6-INCH	LF	1,162.000	1,162.000
0740	SPV.0090	Special 03. PAVEMENT MARKING GROOVED PREFORMED THERMOPLASTIC CROSSWALK 24-INCH	LF	138.000	138.000
0750	SPV.0090	Special 04. PAVEMENT MARKING GROOVED PREFORMED THERMOPLASTIC STOP BAR 18-INCH	LF	407.000	407.000
0760	SPV.0090	Special 05. PAVEMENT MARKING GROOVED EPOXY 4-INCH	LF	14,884.000	14,884.000
0770	SPV.0090	Special 06. PAVEMENT MARKING GROOVED PREFORMED PLASTIC TAPE 4-INCH	LF	373.000	373.000
0780	SPV.0105	Special 01. REGTANGULAR RAPID FLASHING BEACON (RRFB) SYSTEM STATION 124+80 RT	LS	1.000	1.000
0790	SPV.0105	Special 02. REGTANGULAR RAPID FLASHING BEACON (RRFB) SYSTEM STATION 124+80 LT	LS	1.000	1.000
0800	SPV.0105	Special 03. REGTANGULAR RAPID FLASHING BEACON (RRFB) SYSTEM STATION 125+00 RT	LS	1.000	1.000
0810	SPV.0105	Special 04. REGTANGULAR RAPID FLASHING BEACON (RRFB) SYSTEM STATION 125+00 LT	LS	1.000	1.000
0820	SPV.0105	Special 05. REMOVE LOOP DETECTOR WIRE & LEAD IN CABLE USH 45 & STH 11	LS	1.000	1.000
0830	SPV.0105	Special 06. GRADING, SHAPING, AND FINISHING DITCH INSTALLATION	LS	1.000	1.000

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REMOVALS

LOCATION	REMOVING CURB & GUTTER 204.0150 LF	REMOVING CONCRETE SIDEWALK 204.0155 SY	REMOVING RAILROAD TRACK 204.0200 LF	REMARKS
STH 11				
PROJECT	150	90	--	UNDISTRIBUTED
STAGE 1	10	--	110	REMOVE CURB & GUTTER AT NE QUAD. AT YORK STREET
TOTAL	160	90	110	

MISC

LOCATION	SAWING ASPHALT 690.0150 LF	REMARKS
STH 11		
STAGE 1	2,689	FOR PROJECT LIMITS
STAGE 2A	41	
STAGE 2B	80	
TOTAL	2,810	

CONCRETE ITEMS

LOCATION	COMMON EXCAVATION 205.0100 CY	BASE PATCHING CONCRETE SHES 390.0403 SY	CONCRETE SIDEWALK 5-INCH 602.0410 SF	CONCRETE CURB & GUTTER 30-INCH TYPE D 601.0411 LF	CURB RAMP DETECTABLE WARNING FIELD YELLOW 602.0505 SF
STH 11					
RAILROAD REMOVAL	90	--	--	--	--
STAGE 1	--	60	90	80	96
STAGE 2A	--	120	--	10	--
STAGE 2B	--	40	--	10	--
TOTAL	90	220	90	100	96

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BASE AGGREGATE

LOCATION	BASE AGGREGATE DENSE 3/4-INCH 305.0110 TON	BASE AGGREGATE DENSE 1 1/4-INCH 305.0120 TON	BREAKER RUN 311.0110 TON	REMARKS
STH 11				
STAGE 1	360	42	--	
UNDISTRIBUTED	--	--	50	BREAKER RUN FOR REPAIRS
TOTAL	360	42	50	

ASPHALT ITEMS

LOCATION	REMOVING ASPHALTIC SURFACE MILLING 204.0125 TON	INCENTIVE IRI RIDE 440.4410 DOL	HMA PAVEMENT 4 MT 58-28 S 460.1103 TON	TACK COAT 455.0605 GAL	REHEATING HMA PAVEMENT LONGITUDINAL JOINTS 460.4110S LF	ASPHALTIC SURFACE PATCHING 465.0110 TON	ASPHALTIC CENTERLINE RUMBLE STRIPS 465.0475 LF	REMARKS
STH 11								
STAGE 1	6,590	--	6,590	2,420	11,700	--	2,220	ASPHALTIC SURFACE PATCHING WILL BE USED FOR MINOR REPAIRS
STAGE 2A	140	--	140	50	--	--	--	
STAGE 2B	160	--	160	60	--	--	--	
STA 43+90 TO STA 166+50	--	9,288	--	--	--	140	--	
TOTAL	6,890	9,288	6,890	2,530	11,700	140	2,220	

NOTE: UNLESS OTHERWISE NOTED, ALL ITEMS ARE CATEGORY 0010

PROJECT NO: 1320-20-60	HWY: STH 11	COUNTY: RACINE	MISCELLANEOUS QUANTITIES	SHEET:	E

FILE NAME : _____ PLOT DATE : _____ PLOT BY : _____ PLOT NAME : _____ PLOT SCALE : 1:1

EROSION CONTROL

STATION	LOCATION	HWY	TOPSOIL 625.0100 SF	SILT FENCE 628.1504 LF	MOBILIZATION EROSION CONTROL 628.1905 EACH	MOBILIZATION EMERGENCY CONTROL 628.1910 EACH	INLET PROTECTION TYPE C 628.7015 EACH	INLET PROTECTION TYPE D 628.7020 EACH	SOD LAWN 631.1000 LF	REMARKS
47+46	L	STH 11	--	80	--	--	--	--	--	
48+62	R	STH 11	--	100	--	--	--	--	--	
116+90	L	STH 11	--	--	--	--	1	--	--	
119+95	R	STH11	--	--	--	--	--	1	--	
123+40	R	STH 11	--	--	--	--	--	1	--	
124+05	L	STH 11	--	--	--	--	--	1	--	
124+25	R	STH 11	--	--	--	--	--	1	--	
124+85	R	STH 11	--	20	--	--	--	--	--	
128+50	L	STH 11	--	--	--	--	--	1	--	
130+95	L	STH 11	--	--	--	--	--	1	--	
133+40	L	STH 11	--	--	--	--	--	1	--	
133+55	R	STH 11	--	--	--	--	--	1	--	
134+95	R	STH 11	--	--	--	--	--	1	--	
139+20	R	STH 11	--	60	--	--	--	--	--	
139+70	L	STH 11	--	--	--	--	--	1	--	
140+95	L	STH 11	--	--	--	--	1	--	--	
141+30	L	STH 11	--	--	--	--	1	--	--	
146+35	L	STH 11	--	--	--	--	1	--	--	
148+10	L	STH 11	--	--	--	--	1	--	--	
718+20	R	USH 45	--	--	--	--	1	--	--	
718+80	R	USH 45	--	--	--	--	1	--	--	
723+90	L	USH 45	--	--	--	--	1	--	--	
723+95	R	USH 45	--	--	--	--	1	--	--	
151+50	L	STH 11	--	--	--	--	1	--	--	
153+85	L	STH 11	--	--	--	--	1	--	--	
155+85	L	STH 11	--	--	--	--	1	--	--	
157+80	R	STH 11	--	--	--	--	1	--	--	
160+85	R	STH 11	--	--	--	--	--	1	--	
UNDISTRIBUTED		STH 11	50	--	3	1	--	--	50	SOD LAWN FOR CURB RAMP AND SIDEWALK INSTALLATION
		TOTAL		260	3	1	13	11	50	

STAKING

LOCATION	CONSTRUCTION STAKING RESURFACING REFERENCE 650.8000 LF	CONSTRUCTION STAKING SUPPLEMENTAL CONTROL (PROJECT) 650.9910 LS
STH 11	11,700	1

NOTE: UNLESS OTHERWISE NOTED, ALL ITEMS ARE CATEGORY 0010

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TRAFFIC CONTROL

LOCATION	STAGE DURATION	TRAFFIC CONTROL (PROJECT) 643.0100	TRAFFIC CONTROL DRUMS 643.0300	TRAFFIC CONTROL BARRICADE TYPE II 643.0410	TRAFFIC CONTROL BARRICADES TYPE III 643.0420	TRAFFIC CONTROL BARRICADES TYPE III (Mod) 643.0420	TRAFFIC CONTROL FLEXIBLE TUBULAR MARKER POSTS 643.0500	TRAFFIC CONTROL FLEXIBLE TUBULAR MARKER BASES 643.0600	TRAFFIC CONTROL WARNING LIGHTS TYPE A 643.0705	TRAFFIC CONTROL WARNING LIGHTS TYPE C 643.0715	TRAFFIC CONTROL SIGNS 643.0900	TRAFFIC CONTROL SIGNS PCMS 643.1050	TEMPORARY PORTABLE RUMBLE STRIPS SPV.0600.04
	DAY	EACH	DAY	DAY	DAY	DAY	EACH	EACH	DAY	DAY	DAY	DAY	EACH
STH 11													
PROJECT	--	1	--	--	--	--	--	--	--	--	--	--	4
STAGE 1 - ROADWAY	7	--	--	--	--	--	--	--	--	--	400	--	--
STAGE 1 - SIDEWALK	1	--	--	32	--	--	--	--	32	--	32	--	--
STAGE 2A	1	--	85	--	11	3	28	28	22	30	49	2	--
STAGE 2B	1	--	50	--	10	2	17	17	20	10	43	2	--
TOTAL	10	1	135	32	21	5	45	45	74	40	524	4	4

NOTE: UNLESS OTHERWISE NOTED, ALL ITEMS ARE CATEGORY 0010

PAVEMENT MARKING

LOCATION	EPOXY 4-INCH (WHITE) 646.0106 LF	SAME DAY EPOXY 4-INCH (YELLOW) (YELLOW) 646.0406 LF	SAME DAY EPOXY 4-INCH (YELLOW) 12.5' SKIPS 646.0406 LF	LOCATING NO-PASSING ZONES 648.0100 MI	GROOVED PREFORMED PLASTIC TAPE 4-INCH (WHITE) 12.5' SKIPS SPV.0090.06 LF	GROOVED PREFORMED PLASTIC TAPE 4-INCH (WHITE) 3' SKIPS SPV.0090.06 LF	GROOVED PREFORMED PLASTIC TAPE 8-INCH (WHITE) CHANNELIZING SPV.0090.01 LF	GROOVED PREFORMED PLASTIC TAPE 8-INCH (WHITE) 3' SKIPS SPV.0090.01 LF	GROOVED PREFORMED THERMOPLASTIC CROSSWALK 6-INCH SPV.0090.02 LF	GROOVED PREFORMED THERMOPLASTIC CROSSWALK 24-INCH SPV.0090.03 LF	GROOVED PREFORMED THERMOPLASTIC STOP BAR 18-INCH SPV.0090.04 LF	GROOVED PREFORMED THERMOPLASTIC WORDS SPV.0060.01 EA	GROOVED PREFORMED THERMOPLASTIC ARROWS TYPE 2 SPV.0060.02 EA	GROOVED PREFORMED THERMOPLASTIC ARROWS TYPE 3 SPV.0060.03 EA	GROOVED EPOXY 4-INCH SPV.0090.05 LF
STH 11				2.32											
STA 38+20 TO STA 74+00	--	8705	1093	--	201	34	200	--	--	--	95	1	1	--	6243
STA 74+00 TO STA 119+00	--	3868	882	--	138	--	295	--	--	50	91	1	1	--	8641
STA 119+00 TO STA 148+00	4905	264	726	--	--	--	--	--	247	--	75	--	--	--	--
STA 148+00 TO 154+50, EB	--	924	21	--	--	--	65	45	--	--	22	--	1	--	--
STA 148+00 TO 154+50, WB	--	--	--	--	--	--	103	47	--	--	25	1	1	--	--
STA 154+50 TO 166+50	560	1010	270	--	--	--	--	--	507	88	49	--	--	--	--
USH 45															
STAGE 2A	--	1022	--	--	--	--	110	32	--	--	25	1	1	1	--
STAGE 2B	--	--	--	--	--	--	79	42	408	--	25	--	1	1	--
SUB TOTAL	5,465	15,793	2,992	2.32	339	34	852	166	1,162	138	407	4	6	2	14,884
TOTAL	**5,465**	**18,785**		**2.32**	**373**		**1,018**		**1,162**	**138**	**407**	**4**	**6**	**2**	**14,884**

TEMPORARY PAVEMENT MARKING

LOCATION	**EPOXY 4-INCH (YELLOW) 649.0403 LF	REMOVABLE TAPE 4-INCH (WHITE) CHANNELIZING 649.0400 LF	REMOVABLE TAPE 4-INCH (WHITE) 3' SKIPS 649.0400 LF	REMOVABLE TAPE 4-INCH (WHITE) 4' SKIPS 649.0400 LF	REMOVABLE TAPE 6-INCH (WHITE) 649.0600 LF	STOP LINE REMOVABLE TAPE 12-INCH (WHITE) 649.1000 LF
STH 11						
STAGE 1	12702	663	92	88	46	46
STAGE 2A	--	110	32	--	--	25
STAGE 2B	--	79	42	--	--	25
SUBTOTAL	12,702	852	166	88	46	96
TOTAL	**12,702**	**1,106**			**46**	**96**

NOTE: UNLESS OTHERWISE NOTED, ALL ITEMS ARE CATEGORY 0010

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CONDUIT

FROM	TO		652.0225 CONDUIT RIGID NONMETALLIC SCHEDULE 40 2-INCH L.F.
PB2	PB5		29
		TOTAL	29

PULL BOXES

PULL BOX NO.	LOCATION*		653.0135 PULL BOXES STEEL 24x36-INCH EACH
PB5	720+96.5, 26.0'RT		1
PB16	722+67.0', 26.9'LT		1
		TOTAL	2

* FINAL LOCATION TO BE DETERMINED BY THE ENGINEER IN THE FIELD.

REMOVE LOOP DETECTOR WIRE AND LEAD-IN CABLE

LOCATION		SPV.0105.05 REMOVE LOOP DETECTOR WIRE & LEAD-IN CABLE L.S.
USH 45 & STH 11		1
	TOTAL	1

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TRAFFIC DETECTOR LOOPS

LOOP NO.	HOME RUN PB	LOCATION* **	SIZE (FT)x(FT)	NO. OF TURNS	SDD INSTALLATION REFERENCE	652.0800 CONDUIT LOOP DETECTOR L.F.	655.0700 LOOP DETECTOR LEAD IN CABLE L.F.	655.0800 LOOP DETECTOR WIRE L.F.
21	PB15	153+67.2, 14.7'LT	6'x10'	4	9F15-4A - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 1)	48	336	192
33	PB5	720+96.2, 2.9'RT	6'x20'	3	9F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	92	58	276
41	PB12	723+77.6, 17.1'LT	6'x6'	5	9F15-4A - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 1)	40	313	200
42	PB16	722+49.1, 17.2'LT	6'x20'	3	9F15-4A - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 1)	68	203	204
43	PB10	722+20.9, 17.3'LT	6'x20'	3	9F15-4A - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 1)	74	163	222
44	PB16	722+77.0, 4.6'LT	6'x20'	3	9F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	96	203	288
45	PB16	722+48.9, 5.0'LT	6'x20'	3	9F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	92	203	276
46	PB10	722+20.8. 5.0'LT	6'x20'	3	9F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	100	163	300
61	PB8	148+24.2, 7.9'RT	6'x12'	4	9F15-4A - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 1)	54	334	216
					TOTAL	664	1976	2174

* LOCATION IS TO FRONT CENTER OF DETECTOR LOOP
* * FINAL LOCATION TO BE DETERMINED BY THE ENGINEER IN THE FIELD.

3

WEST FRONTAGE/58TH ROAD DITCH WORK

CATEGORY	LOCATION	606.0100 RIPRAP LIGHT CY	* 628.1504 SILT FENCE LF	628.1520 SILT FENCE MAINTENANCE LF	* 628.1905 MOBILIZATION EROSION CONTROL EACH	* 628.1910 MOBILIZATION EMERGENCY EROSION CONTROL EACH	628.7504 TEMPORARY DITCH CHECKS LF	628.7555 CULVERT PIPE CHECKS EACH	645.0130 GEOTEXTILE FABRIC TYPE R SY	650.4500 CONSTRUCTION STAKING SUBGRADE LF	650.9920 CONSTRUCTION STAKING SLOPE STAKES LF	SPV.0105.06 GRADING, SHAPING AND FINISHING DITCH INSTALLATION LS
0030	WEST FRONTAGE/58TH ROAD	9	150	150	1	1	35	1	27	530	530	1
	CATEGORY TOTALS	9	150	150	1	1	35	1	27	530	530	1

* ADDITIONAL QUANTITIES SHOWN ELSEWHERE
** FOR INFORMATION ONLY

3

TRAFFIC CONTROL

CATEGORY	LOCATION	** STAGE DURATION DAYS	* 643.0300 TRAFFIC CONTROL DRUMS **NO.	DAYS	* 643.0900 TRAFFIC CONTROL SIGNS **NO.	DAYS
0030	WEST FRONTAGE/58TH ROAD	3	15	45	10	30
	CATEGORY TOTALS			45		30

* ADDITIONAL QUANTITIES SHOWN ELSEWHERE
** FOR INFORMATION ONLY

GRADING, SHAPING AND FINISHING DITCH INSTALLATION ITEM INFORMATION**

CATEGORY	ROADWAY	*** 205.0100 EXCAVATION COMMON CY	625.0100 TOPSOIL SY	627.0200 MULCHING SY	628.2004 EROSION MAT CLASS I TYPE B SY	629.0210 FERTILIZER TYPE B CWT	630.0120 SEEDING MIX NO. 20 LB
0030	WEST FRONTAGE/58TH ROAD	142	358	892	294	0.7	32
	TOTALS	142	358	892	294	0.7	32

**FOR INFORMATION ONLY
***NOTE: APPROXIMATELY 50 CY TO BE USED TO CONSTRUCT BERM. REMAINING MATERIAL TO BE USED ON SITE AS TOPSOIL.

3

RECTANGULAR RAPID FLASH BEACON - MISC QUANTITIES **1320-20-60 STH 11**

LOCATION	RECTANGULAR RAPID FLASHING BEACON (RRFB) SYSTEM STATION 124+80 RT LS **SPV.0105.01**	RECTANGULAR RAPID FLASHING BEACON (RRFB) SYSTEM STATION 124+80 LT LS **SPV.0105.02**	RECTANGULAR RAPID FLASHING BEACON (RRFB) SYSTEM STATION 125+00 RT LS **SPV.0105.03**	RECTANGULAR RAPID FLASHING BEACON (RRFB) SYSTEM STATION 125+00 LT LS **SPV.0105.04**
STA 124+80 RT	1			
STA 124+80 LT		1		
STA 125+00 RT			1	
STA 125+00 LT				1
TOTAL	1	1	1	1

3

SHEET 1 OF 1

PROJECT NO: 1320-20-60	HWY: STH 11	COUNTY: RACINE	RECTANGULAR RAPID FLASHING BEACON - MISC QUANTITIES	SHEET:	E

FILE NAME : N:\SPO\Operations\Signing\Miscellaneous Quantities\1320-20-60\030201_mq_RRFB.pptx PLOT DATE : 14-JAN-2016 PLOT BY : DOTKLM PLOT NAME : 030201_mq_RRFB.pdf PLOT SCALE : 1:1

SIGN NO.	SIGN CODE & SIZE	SIGN MESSAGE	SIGN SIZE W [IN.]	x	H [IN.]	637.2210 SIGNS TYPE II REFLC H [SF]	637.2230 SIGNS TYPE II REFLC F [SF]	637.2215 SIGNS TYPE II REFLC H FOLDING [SF]	638.2602 REM SIGNS TYPE II [EA]	638.3000 REM SMALL SIGN SUP [EA]	634.0618 POSTS WOOD 4"X 6"x18' [EA]	638.2102 MOVE SIGNS TYPE II [EA]	MOUNT ON SAME POST AS SIGN #	REMARKS / NEW SIGN LOCATION
1	R2-1(2S)	55 MPH	24	x	30	5.000	--	--	1	1	1	--	--	--
2	J4-1(2S)	--	24	x	36	6.000	--	--	1	1	1	--	--	--
	M3-4	--	24	x	12									
	M1-6	STH 11	24	x	24									
3	J13-1(2S)	--	48	x	57	19.000	--	--	1	1	1	--	--	--
	M3-2	--	24	x	12									
	M1-6	STH 11	24	x	24									
	M6-1	--	21	x	21									
	M3-4	--	24	x	12									
	M1-6	STH 11	24	x	24									
	M6-1	--	21	x	21									
4	R1-1(3)	--	36	x	36	7.460	--	--	1	1	1	--	--	--
5	R1-1(3)	--	36	x	36	7.460	--	--	1	1	1	--	--	--
6	J3-1(2S)	--	24	x	57	9.500	--	--	1	1	1	--	--	--
	M3-1	--	24	x	12									
	M1-5A	CTH C	24	x	24									
	M6-1	--	21	x	21									
7	W10-1	--	--	x	--	--	--	--	1	1	--	--	--	TRACKS NO LONGER IN SERVICE
8	W1-7(2S)	--	48	x	24	--	8.000	--	1	1	1	--	--	--
9	J3-1(2S)	--	24	x	57	9.500	--	--	1	1	1	--	--	--
	M3-1	--	24	x	12									
	M1-5A	CTH C	24	x	24									
	M6-1	--	21	x	21									
10	J4-1(2S)	--	24	x	36	6.000	--	--	1	1	1	--	--	--
	M3-2	--	24	x	12									
	M1-6	STH 11	24	x	24									
11	J2-1(2S)	--	24	x	57	9.500	--	--	1	1	1	--	--	--
	M3-1	--	24	x	12									
	M1-5A	CTH C	24	x	24									
	M5-1R	--	21	x	21									
12	J1-1(2S)	--	24	x	39	6.500	--	--	1	1	1	--	--	--
	M2-1	--	21	x	15									
	M1-5A	CTH C	24	x	24									

SIGN NO.	SIGN CODE & SIZE	SIGN MESSAGE	SIGN SIZE W [IN.]	x	H [IN.]	637.2210 SIGNS TYPE II REFLC H [SF]	637.2230 SIGNS TYPE II REFLC F [SF]	637.2215 SIGNS TYPE II REFLC H FOLDING [SF]	638.2602 REM SIGNS TYPE II [EA]	638.3000 REM SMALL SIGN SUP [EA]	634.0618 POSTS WOOD 4"X 6"x18' [EA]	638.2102 MOVE SIGNS TYPE II [EA]	MOUNT ON SAME POST AS SIGN #	REMARKS / NEW SIGN LOCATION
13	R2-1(2S)	55 MPH	24	x	30	5.000	--	--	1	1	1	--	--	--
14	R1-1(2S)	--	30	x	30	5.180	--	--	1	1	1	--	--	--
15	W10-1	--	--	x	--	--	--	--	1	1	--	--	--	TRACKS NO LONGER IN SERVICE
16	D1-1	SCHOEN RD [A]	78	x	15	--	8.125	--	1	2	2	--	--	--
17	W3-5(2S)	45 MPH	36	x	36	--	9.000	--	1	1	1	--	--	--
18	W14-3(2S)	--	48	x	36	--	6.000	--	1	1	1	--	--	--
19	R2-1(2S)	55 MPH	24	x	30	5.000	--	--	--	--	--	--	18	BACK OF SIGN #18
20	W1-7(2S)	--	48	x	24	--	8.000	--	1	1	1	--	--	--
21	R1-1(2S)	--	30	x	30	5.180	--	--	1	1	1	--	--	--
22	R2-1(3)	45 MPH	36	x	48	12.000	--	--	1	1	1	--	--	--
23	W1-2L(2S)	--	30	x	30	--	6.250	--	1	1	1	--	--	--
24	D1-1	[A] SCHOEN RD	78	x	15	--	8.125	--	1	2	2	--	--	--
25	W1-2R(2S)	--	30	x	30	--	6.250	--	1	1	1	--	--	--
26	R2-1(2S)	45 MPH	24	x	30	5.000	--	--	1	1	1	--	--	--
27	R1-1(2S)	--	30	x	30	5.180	--	--	1	1	1	--	--	--
28	W14-3(2S)	--	48	x	36	--	6.000	--	1	1	1	--	--	--
29	R2-1(2S)	45 MPH	24	x	30	5.000	--	--	1	1	1	--	--	--
30	R2-1(2S)	45 MPH	24	x	30	5.000	--	--	1	1	1	--	--	--
31	W14-3(2S)	--	48	x	36	--	6.000	--	1	1	1	--	--	--
32	R2-1(2S)	45 MPH	24	x	30	5.000	--	--	1	--	--	--	--	MOUNT ON BACK OF EXISTING R2-1 (35 MPH)
33	R2-1(2S)	35 MPH	24	x	30	5.000	--	--	1	1	1	--	--	--
34	*NOT USED*	--	--	x	--	--	--	--	--	--	--	--	--	--
35	W14-3(2S)	--	48	x	36	--	6.000	--	1	1	1	--	--	--
36	R1-1(2S)	--	30	x	30	5.180	--	--	1	1	1	--	--	--
37	R59-51(2S)	--	36	x	36	9.000	--	--	1	1	1	--	--	--
38	J4-1(2S)	--	24	x	36	6.000	--	--	1	1	1	--	--	--
	M3-4	--	24	x	12									
	M1-6	STH 11	24	x	24									
39	R2-1(2S)	35 MPH	24	x	30	5.000	--	--	1	1	1	--	--	--
40	R1-1(2S)	--	30	x	30	5.180	--	--	1	1	1	--	--	--

SIGN NO.	SIGN CODE & SIZE	SIGN MESSAGE	SIGN SIZE W [IN.]	x	H [IN.]	637.2210 SIGNS TYPE II REFLC H [SF]	637.2230 SIGNS TYPE II REFLC F [SF]	637.2215 SIGNS TYPE II REFLC H FOLDING [SF]	638.2602 REM SIGNS TYPE II [EA]	638.3000 REM SMALL SIGN SUP [EA]	634.0618 POSTS WOOD 4"X 6"x18' [EA]	638.2102 MOVE SIGNS TYPE II [EA]	MOUNT ON SAME POST AS SIGN #	REMARKS / NEW SIGN LOCATION
41	W11-2(3)	--	36	x	36	--	9.000	--	1	--	--	--	--	SEE RRFB QTYS FOR MOUNTING, ETC
42	--	HANDICAP	42	x	12	--	3.500	--	--	--	--	--	41	SEE RRFB QTYS FOR MOUNTING, ETC
43	W16-7L(3)	--	30	x	18	--	3.750	--	--	--	--	--	41	SEE RRFB QTYS FOR MOUNTING, ETC
43A	R10-25(2S)	--	9	x	12	0.750	--	--	--	--	--	--	41	SEE RRFB QTYS FOR MOUNTING, ETC
44	W11-2(3)	--	36	x	36	--	9.000	--	1	1	1	--	--	--
45	--	HANDICAP	--	x	--	--	--	--	--	--	--	--	44	--
46	W16-9P(3)	--	30	x	18	--	3.750	--	--	--	--	--	44	--
47	R2-1(3)	30 MPH	36	x	48	12.000	--	--	1	1	1	--	--	--
48	R2-1(3)	30 MPH	36	x	48	12.000	--	--	--	--	1	--	--	--
49	W11-2 -- W16-9P	-- HANDICAP --	--	x	--	--	--	--	1	1	--	--	--	--
50	R2-1(2S)	35 MPH	24	x	30	5.000	--	--	1	1	1	--	--	--
51	W11-2(3)	--	36	x	36	--	9.000	--	--	--	--	--	--	SEE RRFB QTYS FOR MOUNTING, ETC
52	--	HANDICAP	42	x	12	--	3.500	--	--	--	--	--	51	SEE RRFB QTYS FOR MOUNTING, ETC
53	W16-7R(3)	--	30	x	18	--	3.750	--	--	--	--	--	51	SEE RRFB QTYS FOR MOUNTING, ETC
53A	R10-25(2S)	--	9	x	12	0.750	--	--	--	--	--	--	51	SEE RRFB QTYS FOR MOUNTING, ETC
54	W11-2(3)	--	36	x	36	--	9.000	--	--	--	--	--	--	SEE RRFB QTYS FOR MOUNTING, ETC
55	--	HANDICAP	42	x	12	--	3.500	--	--	--	--	--	54	SEE RRFB QTYS FOR MOUNTING, ETC
56	W16-7L(3)	--	30	x	18	--	3.750	--	--	--	--	--	54	SEE RRFB QTYS FOR MOUNTING, ETC
56A	R10-25(2S)	--	9	x	12	0.750	--	--	--	--	--	--	54	SEE RRFB QTYS FOR MOUNTING, ETC
57	W11-2 -- W16-7L	-- HANDICAP --	--	x	--	--	--	--	1	1	--	--	--	--
58	R7-1R(2S)	--	18	x	24	3.000	--	--	1	1	1	--	--	--
59	R7-1D(2S)	--	18	x	24	3.000	--	--	1	1	1	--	--	--
60	W11-2(3)	--	36	x	36	--	9.000	--	1	1	1	--	--	SHEET 6 OF 13
61	--	HANDICAP	42	x	12	--	3.500	--	--	--	--	--	60	SHEET 6 OF 13
62	W16-9P(3)	--	30	x	18	--	3.750	--	--	--	--	--	60	SHEET 6 OF 13
63	R7-1L(2S)	--	18	x	24	3.000	--	--	1	1	1	--	--	--
64	R2-1(2S)	35 MPH	24	x	30	5.000	--	--	1	1	1	--	--	--
65	R2-1(2S)	35 MPH	24	x	30	5.000	--	--	1	1	1	--	--	--

SIGN NO.	SIGN CODE & SIZE	SIGN MESSAGE	SIGN SIZE W [IN.]	x	H [IN.]	637.2210 SIGNS TYPE II REFLC H [SF]	637.2230 SIGNS TYPE II REFLC F [SF]	637.2215 SIGNS TYPE II REFLC H FOLDING [SF]	638.2602 REM SIGNS TYPE II [EA]	638.3000 REM SMALL SIGN SUP [EA]	634.0618 POSTS WOOD 4"X 6"x18' [EA]	638.2102 MOVE SIGNS TYPE II [EA]	MOUNT ON SAME POST AS SIGN #	REMARKS / NEW SIGN LOCATION
66	W11-2	--	--	x	--	--	--	--	1	1	--	--	--	--
67	W16-7L	--	--	x	--	--	--	--	--	--	--	--	--	--
68	R2-1(2S)	30 MPH	24	x	30	5.000	--	--	1	1	1	--	--	--
69	W11-2	--	--	x	--	--	--	--	1	1	--	--	--	--
	--	HANDICAP												
70	R1-1(2S)	--	30	x	30	5.180	--	--	1	1	1	--	--	--
71	R2-1(2S)	30 MPH	24	x	30	5.000	--	--	1	1	1	--	--	--
72	R1-1(2S)	--	30	x	30	5.180	--	--	1	1	1	--	--	--
73	W11-2(3)	--	36	x	36	--	9.000	--	1	1	1	--	--	NEW SIGN AT STA 158 - SHEET 10 OF 13
74	W16-7L(3)	--	30	x	18	--	3.750	--	--	--	--	--	--	NEW SIGN AT STA 158 - SHEETT 10 OF 13
75	R1-1(2S)	--	30	x	30	5.180	--	--	1	1	1	--	--	--
76	J3-3(2S)	--	72	x	57	28.500	--	--	1	2	2	--	--	--
	M3-1	--	24	x	12									
	M1-4	USH 45	24	x	24									
	M5-1L	--	21	x	21									
	M3-2	--	24	x	12									
	M1-6	STH 11	24	x	24									
	M6-1	--	21	x	21									
	M3-3	--	24	x	12									
	M1-4	USH 45	24	x	24									
	M5-1R	--	21	x	21									
77	R7-1D(2S)	--	18	x	24	3.000	--	--	1	--	--	--	--	MOUNT ON POWER POLE
78	W11-2(3)	--	36	x	36	--	9.000	--	1	1	1	--	--	NEW SIGN AT STA 157 - SHEET 10 OF 13
79	W16-7L(3)	--	30	x	18	--	3.750	--	--	--	--	--	--	NEW SIGN AT STA 157 - SHEET 10 OF 13
80	R2-1(2S)	30 MPH	24	x	30	5.000	--	--	1	1	1	--	--	--
81	R7-1D(2S)	--	18	x	24	3.000	--	--	--	--	--	--	80	ANGLE SIGN BELOW R2-1
82	W3-3(2S)	--	36	x	36	--	9.000	--	1	1	1	--	--	--
83	R7-1L(2S)	--	18	x	24	3.000	--	--	1	1	1	--	--	--
84	R2-1(2S)	30 MPH	24	x	30	5.000	--	--	1	1	1	--	--	--
85	J1-1(2S)	--	24	x	39	6.500	--	--	1	1	1	--	--	--
	M2-1	--	21	x	15									
	M1-4	USH 45	24	x	24									

3

SIGN NO.	SIGN CODE & SIZE	SIGN MESSAGE	SIGN SIZE W [IN.]	x	H [IN.]	637.2210 SIGNS TYPE II REFLC H [SF]	637.2230 SIGNS TYPE II REFLC F [SF]	637.2215 SIGNS TYPE II REFLC H FOLDING [SF]	638.2602 REM SIGNS TYPE II [EA]	638.3000 REM SMALL SIGN SUP [EA]	634.0618 POSTS WOOD 4"X 6"x18' [EA]	638.2102 MOVE SIGNS TYPE II [EA]	MOUNT ON SAME POST AS SIGN #	REMARKS / NEW SIGN LOCATION
86	W11-2	--	--	x	--	--	--	--	1	1	--	--	--	--
87	W16-7L	--	--	x	--	--	--	--	--	--	--	--	--	--
88	R2-1(2S)	30 MPH	24	x	30	5.000	--	--	1	--	--	--	--	MOUNT ON LIGHT POLE
89	J4-1(2S)	--	24	x	36	6.000	--	--	1	--	--	--	--	MOUNT ON LIGHT POLE
	M3-4	--	24	x	12									
	M1-6	STH 11	24	x	24									
90	J3-2(2S)	--	48	x	57	19.000	--	--	1	--	--	--	--	MOUNT ON SIGNAL POLE
	M3-3	--	24	x	12									
	M1-4	USH 45	24	x	24									
	M6-1	--	21	x	21									
	M3-1	--	24	x	12									
	M1-4	USH 45	24	x	24									
	M6-1	--	21	x	21									
91	R1-1F(3)	--	36	x	36	--	--	7.460	1	--	--	--	--	MOUNT ON SIGNAL POLE
92	J3-2(2S)	--	48	x	57	19.000	--	--	1	--	--	--	--	MOUNT ON SIGNAL POLE
	M3-4	--	24	x	12									
	M1-6	STH 11	24	x	24									
	M6-1	--	21	x	21									
	M3-2	--	24	x	12									
	M1-6	STH 11	24	x	24									
	M6-1	--	21	x	21									
93	R1-1F(3)	--	36	x	36	--	--	7.460	1	--	--	--	--	MOUNT ON SIGNAL POLE
94	W8-73(2M)	--	36	x	36	--	9.000	--	1	1	1	--	--	--
95	R3-8A(2S)	--	30	x	36	7.500	--	--	1	1	1	--	--	--
96	R7-51L(2S)	--	18	x	24	3.000	--	--	1	1	1	--	--	--
97	R2-1(2S)	30 MPH	24	x	30	5.000	--	--	1	1	1	--	--	--
98	J4-1(2S)	--	24	x	36	6.000	--	--	1	1	1	--	--	--
	M3-2	--	24	x	12									
	M1-6	STH 11	24	x	24									
99	R1-1F(3)	--	36	x	36	--	--	7.460	1	--	--	--	--	MOUNT ON SIGNAL POLE
100	M1-94S	[11] DURAND AVE	102	x	18	12.750	--	--	--	--	--	--	--	MOUNT ON MAST ARM
101	M1-94S	[45] MAIN ST	78	x	18	9.750	--	--	--	--	--	--	--	MOUNT ON MAST ARM
102	*NOT USED*	--	--	x	--	--	--	--	--	--	--	--	--	--
103	M1-94S	[11] DURAND AVE	102	x	18	12.750	--	--	--	--	--	--	--	MOUNT ON MAST ARM

SIGN NO.	SIGN CODE & SIZE	SIGN MESSAGE	SIGN SIZE W [IN.]	x	H [IN.]	637.2210 SIGNS TYPE II REFLC H [SF]	637.2230 SIGNS TYPE II REFLC F [SF]	637.2215 SIGNS TYPE II REFLC H FOLDING [SF]	638.2602 REM SIGNS TYPE II [EA]	638.3000 REM SMALL SIGN SUP [EA]	634.0618 POSTS WOOD 4"X 6"x18' [EA]	638.2102 MOVE SIGNS TYPE II [EA]	MOUNT ON SAME POST AS SIGN #	REMARKS / NEW SIGN LOCATION
104	J3-2(2S)	--	48	x	57	19.000	--	--	1	--	--	--	--	MOUNT ON SIGNAL POLE
	M3-2	--	24	x	12									
	M1-6	STH 11	24	x	24									
	M6-1	--	21	x	21									
	M3-4	--	24	x	12									
	M1-6	STH 11	24	x	24									
	M6-1	--	21	x	21									
105	R1-1F(3)	--	36	x	36	--	--	7.460	1	--	--	--	--	MOUNT ON SIGNAL POLE
106	J3-2(2S)	--	48	x	57	19.000	--	--	1	1	1	--	--	--
	M3-1	--	24	x	12									
	M1-4	USH 45	24	x	24									
	M6-1	--	21	x	21									
	M3-3	--	24	x	12									
	M1-4	USH 45	24	x	24									
	M6-1	--	21	x	21									
107	W8-73(2M)	--	36	x	36	--	9.000	--	1	1	1	--	--	--
108	R3-7L(3)	--	36	x	36	9.000	--	--	1	1	1	--	--	--
109	R3-8A(2S)	--	30	x	36	7.500	--	--	1	1	1	--	--	--
110	J3-1(2S)	--	24	x	57	9.500	--	--	1	1	1	--	--	--
	M3-4	--	24	x	12									
	M1-6	STH 11	24	x	24									
	M6-1	--	21	x	21									
111	R3-7L(3)	--	36	x	36	9.000	--	--	1	1	1	--	--	--
112	W3-3(2S)	--	36	x	36	--	9.000	--	1	1	1	--	--	--
113	J2-2(2S)	--	48	x	57	19.000	--	--	1	1	1	--	--	--
	M3-3	--	24	x	12									
	M1-4	USH 45	24	x	24									
	M5-1L	--	21	x	21									
	M3-1	--	24	x	12									
	M1-4	USH 45	24	x	24									
	M5-1R	--	21	x	21									

SIGN NO.	SIGN CODE & SIZE	SIGN MESSAGE	SIGN SIZE W [IN.]	x	H [IN.]	637.2210 SIGNS TYPE II REFLC H [SF]	637.2230 SIGNS TYPE II REFLC F [SF]	637.2215 SIGNS TYPE II REFLC H FOLDING [SF]	638.2602 REM SIGNS TYPE II [EA]	638.3000 REM SMALL SIGN SUP [EA]	634.0618 POSTS WOOD 4"X 6"x18' [EA]	638.2102 MOVE SIGNS TYPE II [EA]	MOUNT ON SAME POST AS SIGN #	REMARKS / NEW SIGN LOCATION
114	R1-1(2S)	--	30	x	30	5.180	--	--	1	1	1	--	--	--
115	R7-51L(2S)	--	18	x	24	3.000	--	--	1	1	1	--	--	--
116	W14-3(2S)	--	48	x	36	--	6.000	--	1	1	1	--	--	--
117	R2-1(2S)	30 MPH	24	x	30	5.000	--	--	--	--	1	--	--	--
118	S5-2(2S)	--	24	x	30	5.000	--	--	--	--	--	--	117	--
119	J4-1(2S)	--	24	x	39	6.500	--	--	1	1	1	--	--	--
	M2-1	--	21	x	15									
	M1-4	USH 45	24	x	24									
120	R2-1(2S)	30 MPH	24	x	30	5.000	--	--	1	1	1	--	--	--
121	S1-1(2S)	--	36	x	36	--	6.750	--	1	--	--	--	--	MOUNT ON SIGNAL POLE
122	S16-7L(2S)	--	30	x	18	--	3.750	--	--	--	--	--	121	MOUNT ON SIGNAL POLE
123	R1-1(2S)	--	30	x	30	5.180	--	--	1	1	1	--	--	--
124	W5-52R(2S)	--	12	x	36	--	3.000	--	1	1	1	--	--	--
125	S4-51	--	--	x	--	--	--	--	1	1	--	--	--	--
126	S1-1(2S)	--	36	x	36	--	6.750	--	1	--	--	--	--	MOUNT ON SIGNAL POLE
127	S16-7L(2S)	--	30	x	18	--	3.750	--	--	--	--	--	126	MOUNT ON SIGNAL POLE
128	S1-1	--	--	x	--	--	--	--	1	1	--	--	--	--
	S16-9P													
129	S4-51(2S)	20 MPH	24	x	48	--	8.000	--	--	--	1	--	--	--
130	S1-1(2S)	--	36	x	36	--	6.750	--	--	--	--	--	--	--
131	S16-7L(2S)	--	30	x	18	--	3.750	--	--	--	--	--	130	--
132	R2-6P(2S)	--	24	x	18	3.000	--	--	--	--	--	--	130	--
133	R7-51R(2S)	--	18	x	24	3.000	--	--	1	1	1	--	--	--
134	R2-1(2S)	30 MPH	24	x	30	5.000	--	--	1	1	1	--	--	--
135	R1-1(2S)	--	30	x	30	5.180	--	--	1	1	1	--	--	--
136	S1-1	--	--	x	--	--	--	--	1	1	--	--	--	--
	S16-7L							--						
137	W14-3(2S)	--	48	x	36	--	6.000	--	1	1	1	--	--	--
138	W4-51	--	--	x	--	--	--	--	1	1	--	--	--	--
139	S1-1(2S)	--	36	x	36	--	6.750	--	1	1	1	--	--	--
140	S16-7L(2S)	--	30	x	18	--	3.750	--	--	--	--	--	139	--
141	S1-1(2S)	--	36	x	36	--	6.750	--	1	1	1	--	--	--

3

SIGN NO.	SIGN CODE & SIZE	SIGN MESSAGE	SIGN SIZE W [IN.]	x	H [IN.]	637.2210 SIGNS TYPE II REFLC H [SF]	637.2230 SIGNS TYPE II REFLC F [SF]	637.2215 SIGNS TYPE II REFLC H FOLDING [SF]	638.2602 REM SIGNS TYPE II [EA]	638.3000 REM SMALL SIGN SUP [EA]	634.0618 POSTS WOOD 4"X 6"x18' [EA]	638.2102 MOVE SIGNS TYPE II [EA]	MOUNT ON SAME POST AS SIGN #	REMARKS / NEW SIGN LOCATION
142	S16-7L(2S)	--	30	x	18	--	3.750	--	--	--	--	--	141	--
143	R1-1(2S)	--	30	x	30	5.180	--	--	1	1	1	--	--	--
144	W14-3(2S)	--	48	x	36	--	6.000	--	1	1	1	--	--	--
145	S4-51(2S)	20 MPH	24	x	48	--	8.000	--	1	1	1	--	--	--
146	S1-1(2S)	--	36	x	36	--	6.750	--	1	1	1	--	--	--
147	S16-9P(2S)	--	30	x	18	--	3.750	--	--	--	--	--	146	--
148	R2-6P(2S)	--	24	x	18	3.000	--	--	--	--	--	--	146	--
149	R2-1(2S)	35 MPH	24	x	30	5.000	--	--	1	1	1	--	--	--
150	S5-2(2S)	--	24	x	30	5.000	--	--	--	--	--	--	149	--
151	R1-1(2S)	--	30	x	30	5.180	--	--	1	1	1	--	--	--
152	S1-1(2S)	--	36	x	36	--	6.750	--	1	1	1	--	--	--
153	S16-7L(2S)	--	30	x	18	--	3.750	--	--	--	--	--	152	--
154	W14-3(2S)	--	48	x	36	--	6.000	--	1	1	1	--	--	--
155	R59-51(2S)	--	36	x	36	9.000	--	--	--	--	--	--	154	--
156	S1-1(2S)	--	36	x	36	--	6.750	--	1	1	1	--	--	--
157	S16-7L(2S)	--	30	x	18	--	3.750	--	--	--	--	--	157	--
158	W3-3(2S)	--	36	x	36	--	9.000	--	1	1	1	--	--	--
159	W8-73(2M)	--	36	x	36	--	9.000	--	1	1	1	--	--	--
160	J2-2(2S)	--	48	x	57	19.000	--	--	1	1	1	--	--	--
	M3-4	--	24	x	12									
	M1-6	STH 11	24	x	24									
	M5-1L	--	21	x	21									
	M3-2	--	24	x	12									
	M1-6	STH 11	24	x	24									
	M5-1R	--	21	x	21									
161	R3-7L(3)	--	36	x	36	9.000	--	--	1	1	1	--	--	--
162	J3-1(2S)	--	24	x	57	--	9.500	--	1	1	1	--	--	--
	M3-1	--	24	x	12									
	M1-4	USH 45	24	x	24									
	M6-1	--	21	x	21									
163	J4-1(2S)	--	24	x	36	6.000	--	--	1	1	1	--	--	--
	M3-3	--	24	x	12									
	M1-4	USH 45	24	x	24									

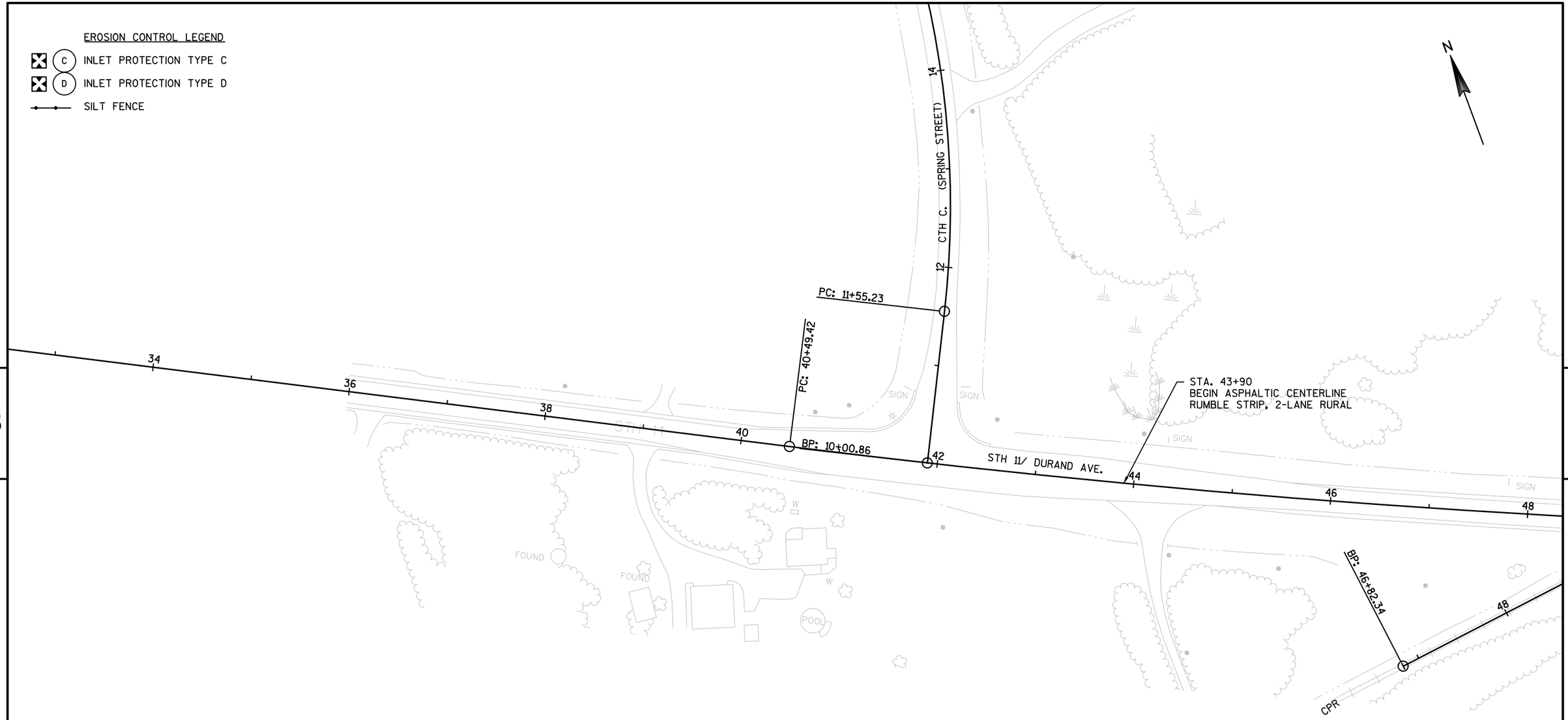
3

SIGN NO.	SIGN CODE & SIZE	SIGN MESSAGE	SIGN SIZE W [IN.]	x	H [IN.]	637.2210 SIGNS TYPE II REFLC H [SF]	637.2230 SIGNS TYPE II REFLC F [SF]	637.2215 SIGNS TYPE II REFLC H FOLDING [SF]	638.2602 REM SIGNS TYPE II [EA]	638.3000 REM SMALL SIGN SUP [EA]	634.0618 POSTS WOOD 4"X 6"x18' [EA]	638.2102 MOVE SIGNS TYPE II [EA]	MOUNT ON SAME POST AS SIGN #	REMARKS / NEW SIGN LOCATION
164	S1-1(2S)	--	36	x	36	--	6.750	--	1	--	--	--	--	MOUNT ON POWER POLE
165	S16-9P(2S)	--	30	x	18	--	3.750	--	--	--	--	--	164	MOUNT ON POWER POLE
166	W11-2(3)	--	36	x	36	--	9.000	--	--	--	--	--	--	SEE RRFB QTYS FOR MOUNTING, ETC
167	--	HANDICAP	42	x	12	--	3.500	--	--	--	--	--	166	SEE RRFB QTYS FOR MOUNTING, ETC
168	W16-7R(3)	--	30	x	18	--	3.750	--	--	--	--	--	166	SEE RRFB QTYS FOR MOUNTING, ETC
168A	R10-25(2S)	--	9	x	12	0.750	--	--	--	--	--	--	166	SEE RRFB QTYS FOR MOUNTING, ETC
169	R2-1(3)	35 MPH	36	x	48	12.000	--	--	--	--	1	--	--	SHEET 7 OF 13
170	W11-2(3)	--	36	x	36	--	9.000	--	--	--	1	--	--	SHEET 9 OF 13
171	W16-9P(3)	--	30	x	18	--	3.750	--	--	--	--	--	170	SHEET 9 OF 13
172	W8-70	--	--	x	--	--	--	--	1	1	--	--	--	SHEET 1 OF 13
	W57-51	--												
173	W8-70	--	--	x	--	--	--	--	1	1	--	--	--	SHEET 1 OF 13
	W57-51	--												
--	--	--	--	x	--	--	--	--	--	--	--	--	--	--
TOTALS						636.510	411.000	29.840	126	114	106	0		

3

EROSION CONTROL LEGEND

- C — INLET PROTECTION TYPE C
- D — INLET PROTECTION TYPE D
- SILT FENCE



5 5

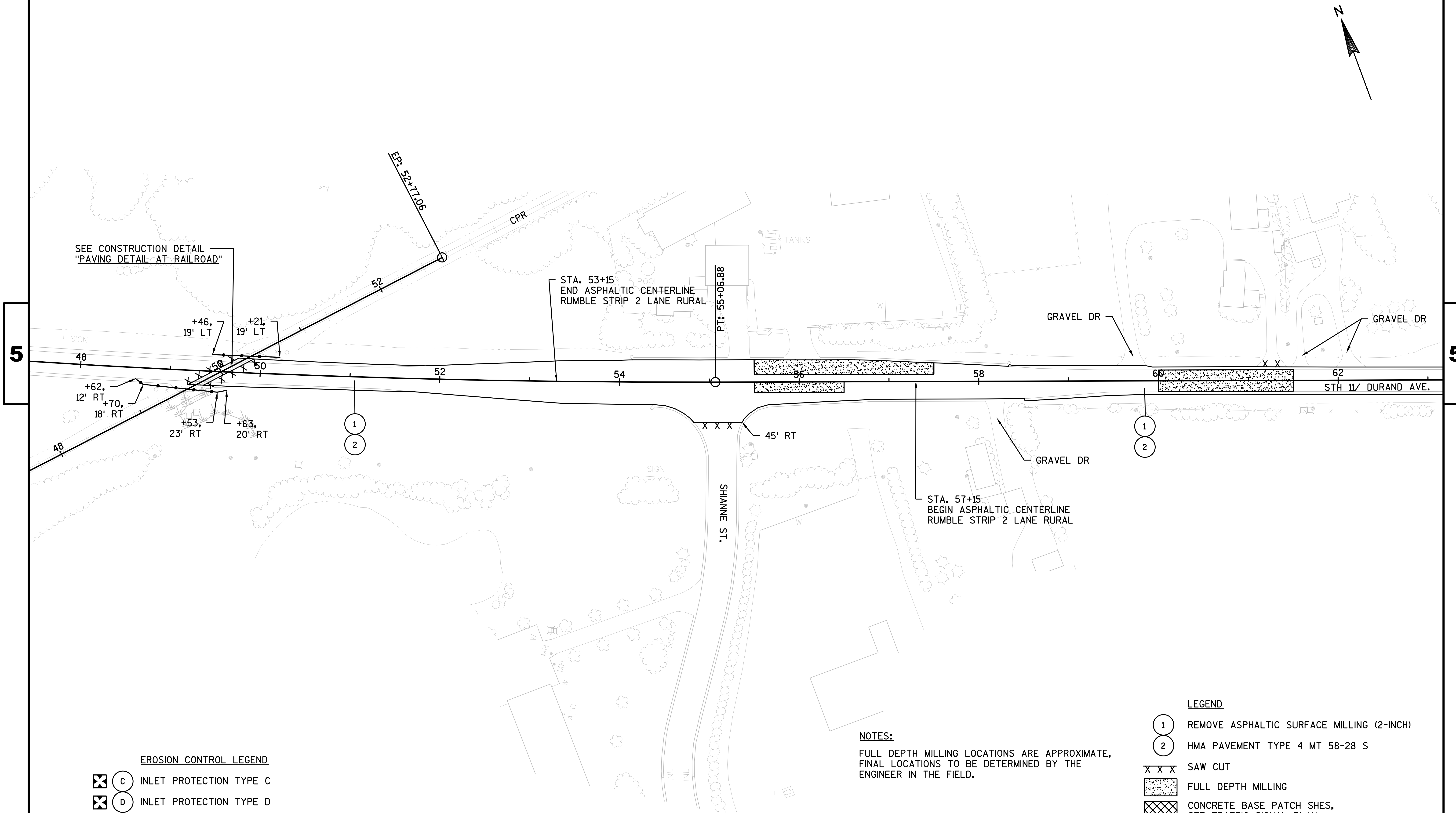
NOTES:

FULL DEPTH MILLING LOCATIONS ARE APPROXIMATE, FINAL LOCATIONS TO BE DETERMINED BY THE ENGINEER IN THE FIELD.

LEGEND

- (1) REMOVE ASPHALTIC SURFACE MILLING (2-INCH)
- (2) HMA PAVEMENT TYPE 4 MT 58-28 S
- SAW CUT
- FULL DEPTH MILLING
- CONCRETE BASE PATCH SHES, SEE TRAFFIC SIGNAL PLAN

PROJECT NO: 1320-20-60	HWY: STH 11	COUNTY: RACINE	PLAN DETAIL AND EROSION CONTROL	SHEET 82	E



NOTES:

FULL DEPTH MILLING LOCATIONS ARE APPROXIMATE, FINAL LOCATIONS TO BE DETERMINED BY THE ENGINEER IN THE FIELD.

LEGEND

① REMOVE ASPHALTIC SURFACE MILLING (2-INCH)

② HMA PAVEMENT TYPE 4 MT 58-28 S

X X X SAW CUT

▨ FULL DEPTH MILLING

▦ CONCRETE BASE PATCH SHES, SEE TRAFFIC SIGNAL PLAN

EROSION CONTROL LEGEND

Ⓒ INLET PROTECTION TYPE C

Ⓓ INLET PROTECTION TYPE D

—●—●— SILT FENCE

PROJECT NO:1320-20-60	HWY:STH 11	COUNTY:RACINE	PLAN DETAIL AND EROSION CONTROL	SHEET 83	E

FILE NAME : N:\PDS\C3D\CAD\13202030\050000_PD.DWG
LAYOUT NAME - 100PD - 050002_PD
PLOT DATE : 1/22/2016 11:02 AM PLOT BY : SCHMIDT, JUDENE M PLOT NAME : PLOT SCALE : 1 IN:100 FT

LEGEND

(1) REMOVE ASPHALTIC SURFACE MILLING (2-INCH)

(2) HMA PAVEMENT TYPE 4 MT 58-28 S

SAW CUT

FULL DEPTH MILLING

CONCRETE BASE PATCH SHES, SEE TRAFFIC SIGNAL PLAN

N

5

5

STH 11/ DURAND AVE.

GRAVEL DR

SIGN

SEPTIC

RUINS

SIGN

PI: 69+01.74

STA. 70+10
END ASPHALTIC CENTERLINE
RUMBLE STRIP 2-LANE RURAL

EP: 55+08.61

50' RT

PC: 77+13.95

SCHOEN RD.

66 68 70 72 74 76 78 54 52

NOTES:

FULL DEPTH MILLING LOCATIONS ARE APPROXIMATE, FINAL LOCATIONS TO BE DETERMINED BY THE ENGINEER IN THE FIELD.

EROSION CONTROL LEGEND

(C) INLET PROTECTION TYPE C

(D) INLET PROTECTION TYPE D

SILT FENCE

PROJECT NO:1320-20-60	HWY: STH 11	COUNTY: RACINE	PLAN DETAIL AND EROSION CONTROL	SHEET 84	E

LEGEND

1 REMOVE ASPHALTIC SURFACE MILLING (2-INCH)

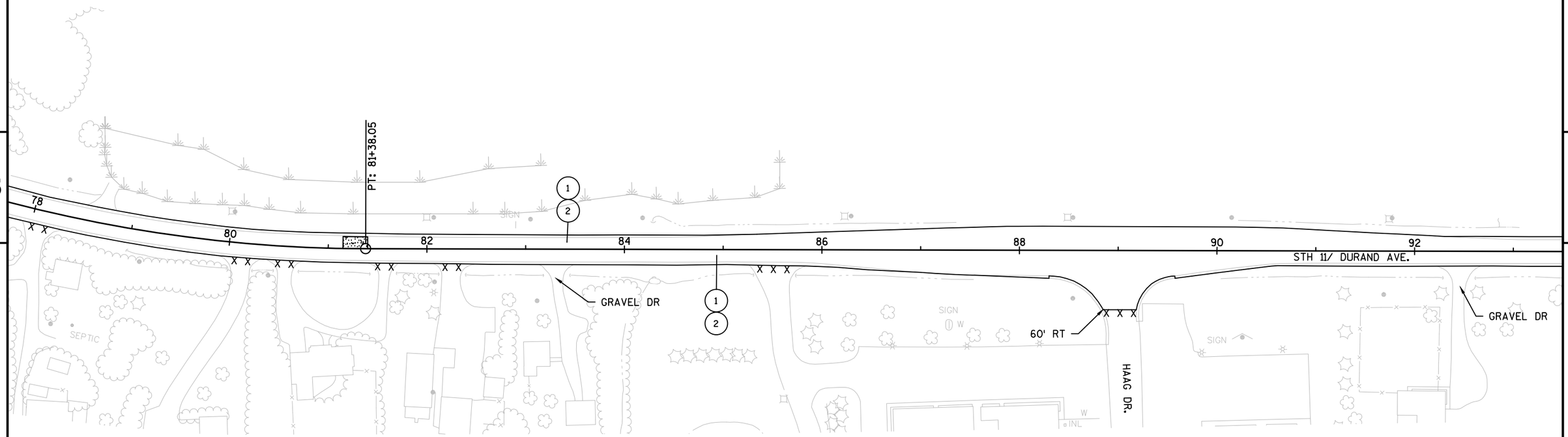
2 HMA PAVEMENT TYPE 4 MT 58-28 S

SAW CUT

FULL DEPTH MILLING

CONCRETE BASE PATCH SHES, SEE TRAFFIC SIGNAL PLAN

N



NOTES:

FULL DEPTH MILLING LOCATIONS ARE APPROXIMATE, FINAL LOCATIONS TO BE DETERMINED BY THE ENGINEER IN THE FIELD.

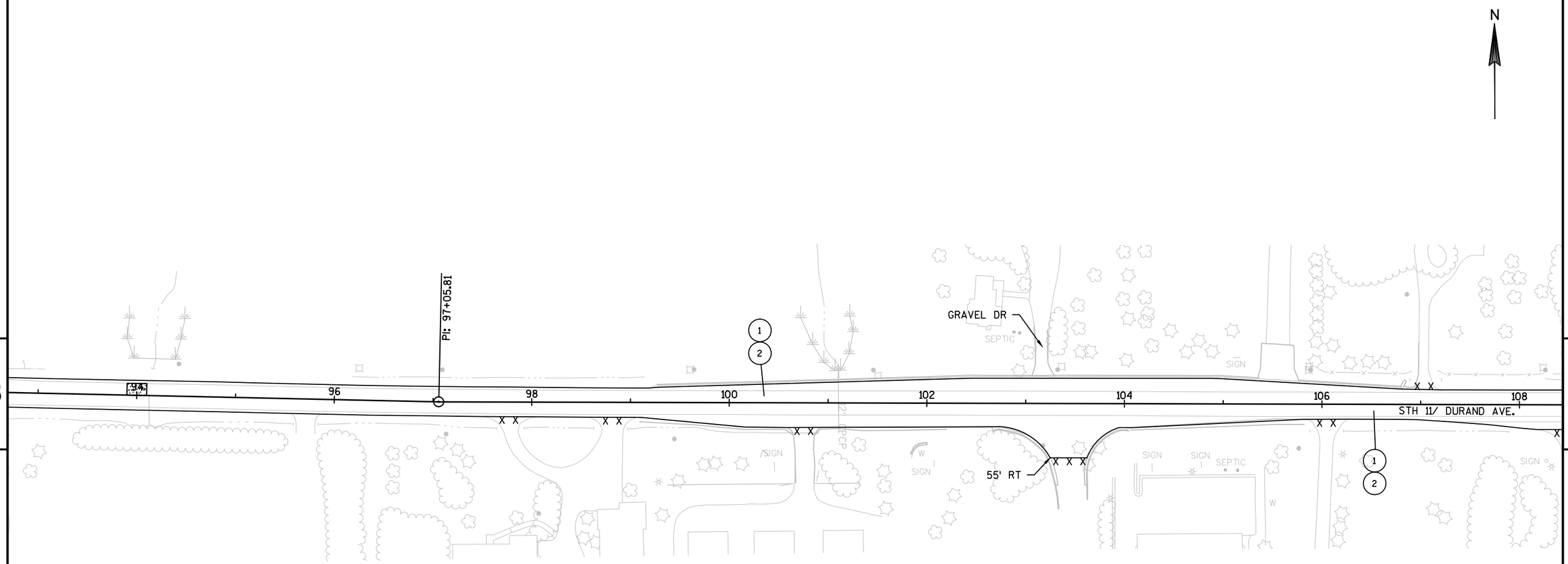
EROSION CONTROL LEGEND

C INLET PROTECTION TYPE C

D INLET PROTECTION TYPE D

SILT FENCE

PROJECT NO:1320-20-60	HWY: STH 11	COUNTY: RACINE	PLAN DETAIL AND EROSION CONTROL	SHEET 85	E



NOTES:

FULL DEPTH MILLING LOCATIONS ARE APPROXIMATE, FINAL LOCATIONS TO BE DETERMINED BY THE ENGINEER IN THE FIELD.

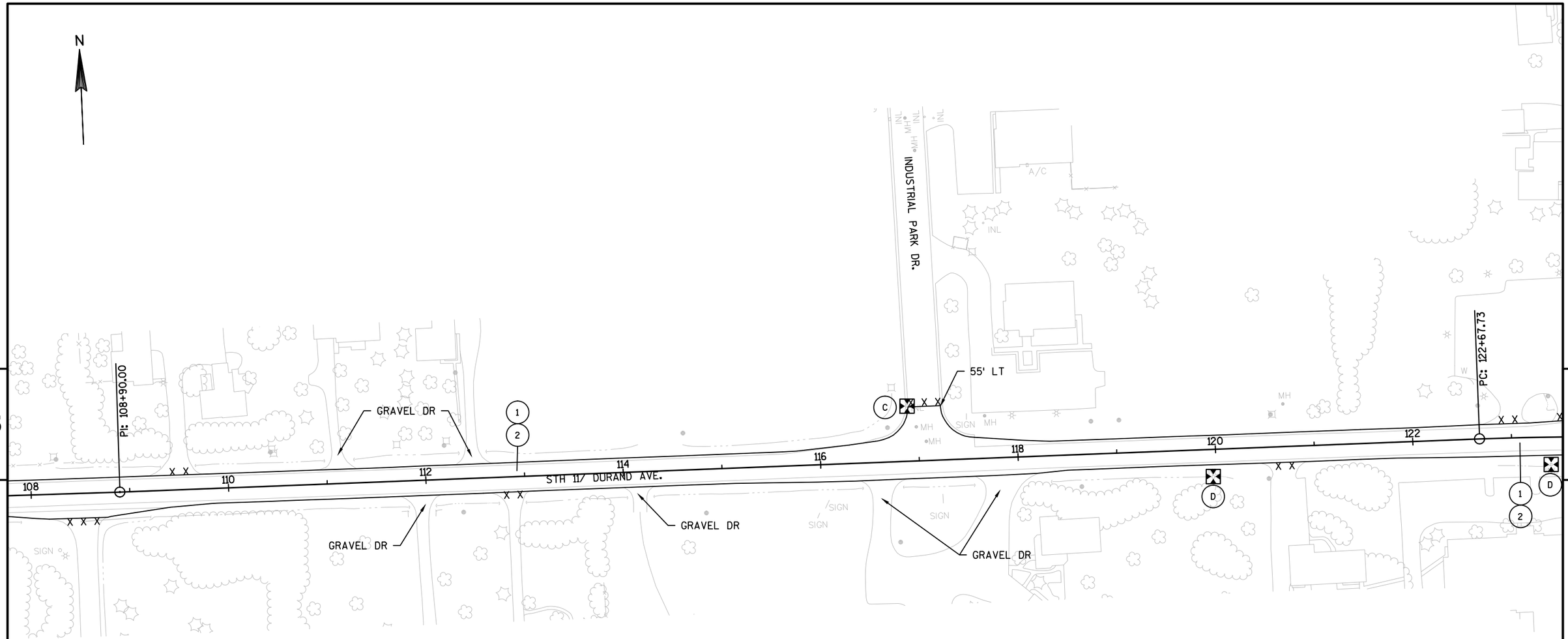
EROSION CONTROL LEGEND

- C — INLET PROTECTION TYPE C
- D — INLET PROTECTION TYPE D
- SILT FENCE

LEGEND

- 1 — REMOVE ASPHALTIC SURFACE MILLING (2-INCH)
- 2 — HMA PAVEMENT TYPE 4 MT 58-28 S
- X X X — SAW CUT
- FULL DEPTH MILLING
- CONCRETE BASE PATCH SHES, SEE TRAFFIC SIGNAL PLAN

PROJECT NO: 1320-20-60	HWY: STH 11	COUNTY: RACINE	PLAN DETAIL AND EROSION CONTROL	SHEET 86	E



NOTES:

FULL DEPTH MILLING LOCATIONS ARE APPROXIMATE, FINAL LOCATIONS TO BE DETERMINED BY THE ENGINEER IN THE FIELD.

EROSION CONTROL LEGEND

- C — INLET PROTECTION TYPE C
- D — INLET PROTECTION TYPE D
- SILT FENCE

LEGEND

- 1 — REMOVE ASPHALTIC SURFACE MILLING (2-INCH)
- 2 — HMA PAVEMENT TYPE 4 MT 58-28 S
- X X X — SAW CUT
- FULL DEPTH MILLING
- CONCRETE BASE PATCH SHES, SEE TRAFFIC SIGNAL PLAN

PROJECT NO: 1320-20-60	HWY: STH 11	COUNTY: RACINE	PLAN DETAIL AND EROSION CONTROL	SHEET 87	E

FILE NAME : N:\PDS\C3D\CAD\13202030\050000_PD.DWG
LAYOUT NAME - 100PD - 050006_PD

PLOT DATE : 1/22/2016 11:02 AM PLOT BY : SCHMIDT, JUDENE M PLOT NAME : PLOT SCALE : **********

WISDOT/CADDS SHEET 44

EROSION CONTROL LEGEND

- (C) INLET PROTECTION TYPE C
- (D) INLET PROTECTION TYPE D
- SILT FENCE

N

YORK ST.

SEE CROSSWALK DETAIL

PI: 125+69.34

40' LT

124 126 128 130 132 134 136 138

STH 11/ DURAND AVE.

GRAVEL DR

PI: 133+01.69

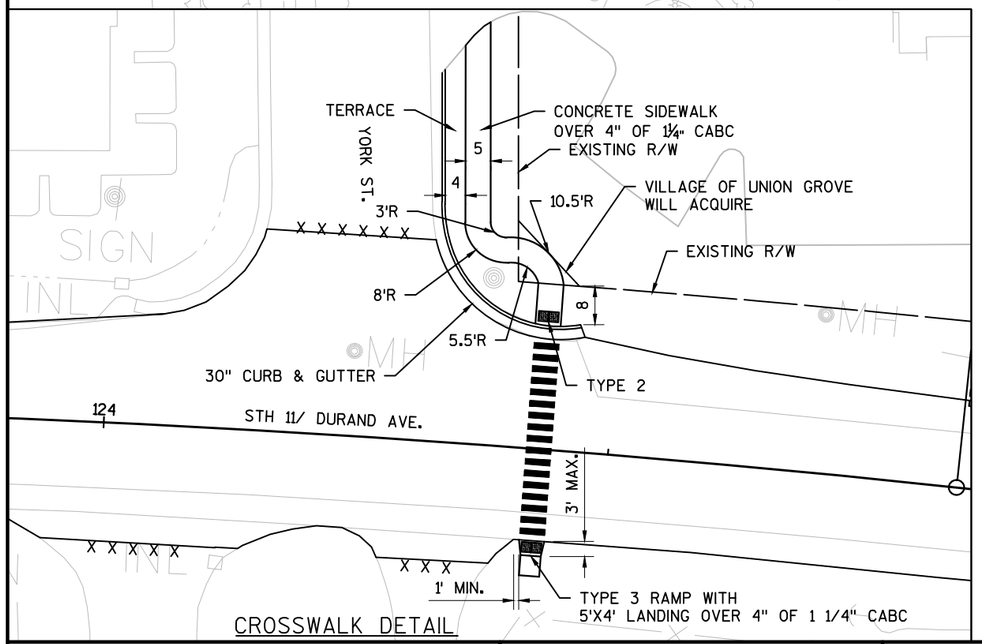
+87, 31' RT

+94, 17' RT

+92, 32' RT

5

5



CROSSWALK DETAIL

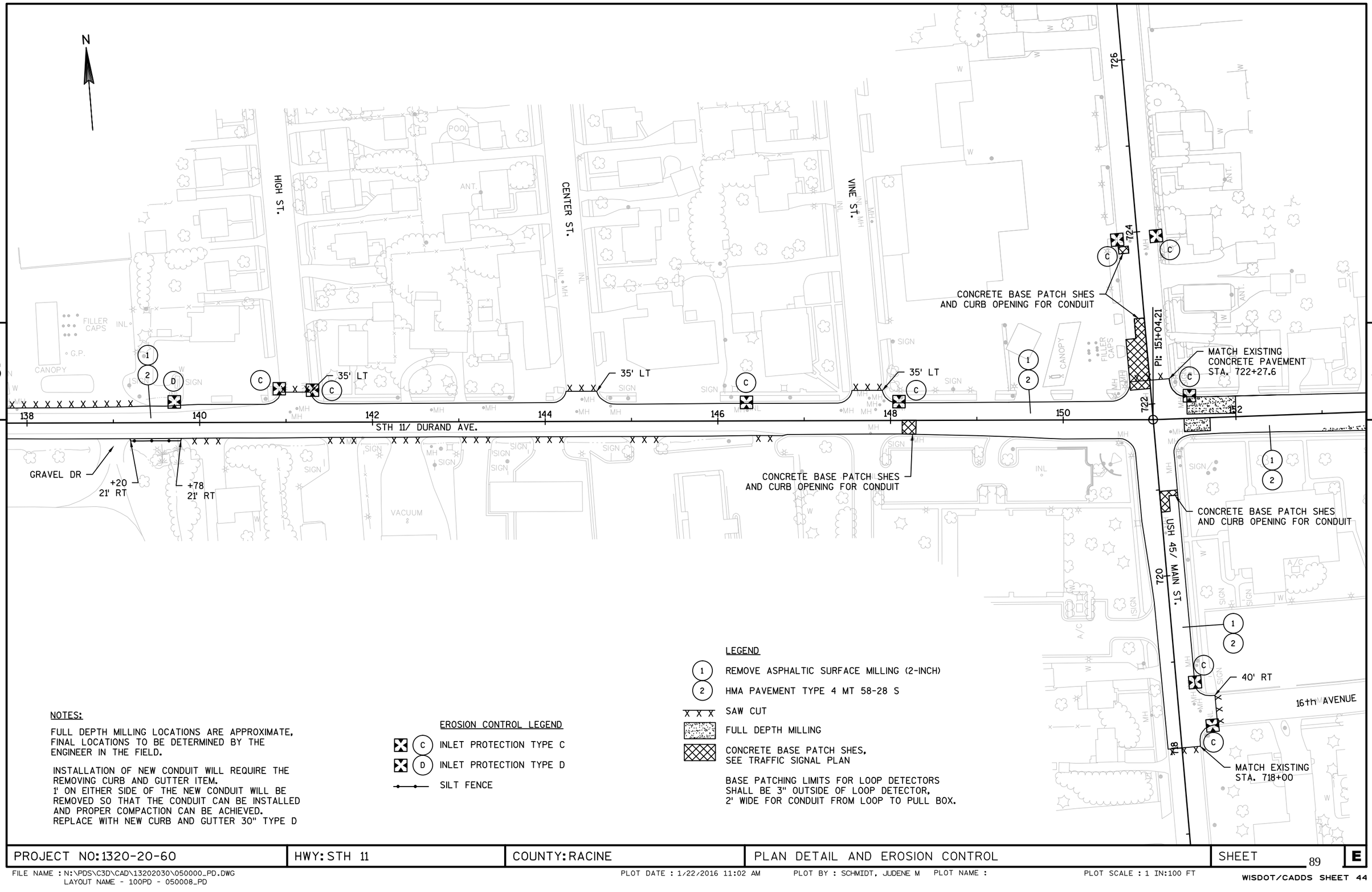
NOTES:

FULL DEPTH MILLING LOCATIONS ARE APPROXIMATE, FINAL LOCATIONS TO BE DETERMINED BY THE ENGINEER IN THE FIELD.

LEGEND

- (1) REMOVE ASPHALTIC SURFACE MILLING (2-INCH)
- (2) HMA PAVEMENT TYPE 4 MT 58-28 S
- SAW CUT
- FULL DEPTH MILLING
- CONCRETE BASE PATCH SHES, SEE TRAFFIC SIGNAL PLAN

PROJECT NO: 1320-20-60	HWY: STH 11	COUNTY: RACINE	PLAN DETAIL AND EROSION CONTROL	SHEET 88	E



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5

NOTES:

FULL DEPTH MILLING LOCATIONS ARE APPROXIMATE, FINAL LOCATIONS TO BE DETERMINED BY THE ENGINEER IN THE FIELD.

INSTALLATION OF NEW CONDUIT WILL REQUIRE THE REMOVING CURB AND GUTTER ITEM.
1' ON EITHER SIDE OF THE NEW CONDUIT WILL BE REMOVED SO THAT THE CONDUIT CAN BE INSTALLED AND PROPER COMPACTION CAN BE ACHIEVED.
REPLACE WITH NEW CURB AND GUTTER 30" TYPE D

EROSION CONTROL LEGEND

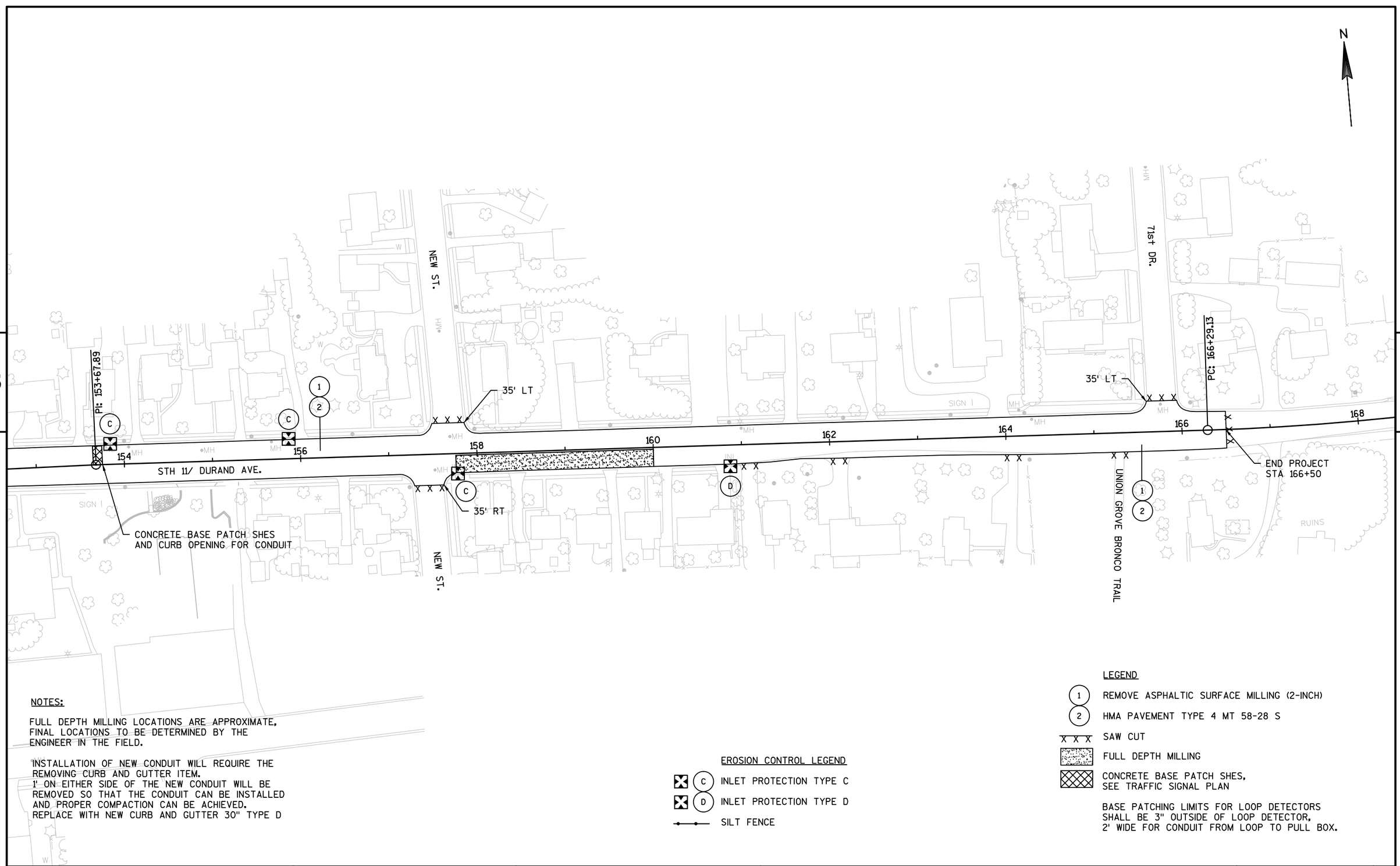
- C — INLET PROTECTION TYPE C
- D — INLET PROTECTION TYPE D
- SILT FENCE

LEGEND

- 1 — REMOVE ASPHALTIC SURFACE MILLING (2-INCH)
- 2 — HMA PAVEMENT TYPE 4 MT 58-28 S
- XXX — SAW CUT
- FULL DEPTH MILLING
- CONCRETE BASE PATCH SHES, SEE TRAFFIC SIGNAL PLAN

BASE PATCHING LIMITS FOR LOOP DETECTORS SHALL BE 3" OUTSIDE OF LOOP DETECTOR, 2' WIDE FOR CONDUIT FROM LOOP TO PULL BOX.

PROJECT NO:1320-20-60	HWY: STH 11	COUNTY: RACINE	PLAN DETAIL AND EROSION CONTROL	SHEET 89 E



NOTES:

FULL DEPTH MILLING LOCATIONS ARE APPROXIMATE, FINAL LOCATIONS TO BE DETERMINED BY THE ENGINEER IN THE FIELD.

INSTALLATION OF NEW CONDUIT WILL REQUIRE THE REMOVING CURB AND GUTTER ITEM.
1' ON EITHER SIDE OF THE NEW CONDUIT WILL BE REMOVED SO THAT THE CONDUIT CAN BE INSTALLED AND PROPER COMPACTION CAN BE ACHIEVED.
REPLACE WITH NEW CURB AND GUTTER 30" TYPE D

EROSION CONTROL LEGEND

- C — INLET PROTECTION TYPE C
- D — INLET PROTECTION TYPE D
- SILT FENCE

LEGEND

- 1 — REMOVE ASPHALTIC SURFACE MILLING (2-INCH)
- 2 — HMA PAVEMENT TYPE 4 MT 58-28 S
- SAW CUT
- FULL DEPTH MILLING
- CONCRETE BASE PATCH SHES, SEE TRAFFIC SIGNAL PLAN

BASE PATCHING LIMITS FOR LOOP DETECTORS SHALL BE 3" OUTSIDE OF LOOP DETECTOR, 2' WIDE FOR CONDUIT FROM LOOP TO PULL BOX.

PROJECT NO:1320-20-60	HWY: STH 11	COUNTY: RACINE	PLAN DETAIL AND EROSION CONTROL	SHEET 90	E

LEGEND

- EROSION MAT CLASS I, TYPE B
- SILT FENCE
- TEMPORARY DITCH CHECK
- CULVERT PIPE CHECK
- SURFACE WATER FLOW
- RIPRAP LIGHT

BENCHMARK

NO.	LOCATION	DESCRIPTION	ELEVATION
4	STA 50+64.34 58TH ROAD ON R/L	SECTION CORNER MONUMENT SECTION 3117	767.02

N

TLE

R/W

R/W

R/W

R/W

R/L WEST FRONTAGE ROAD

4763+00

4764+00

4765+00

4766+00 WEST FRONTAGE ROAD

STA 4764+29
EXISTING 30-INCH CPRC
SLOPE AT 0.49%
ELEVATION = 765.07

STA 4766+00
EXISTING 34x53-INCH CPRCHE
SLOPE AT 0.32%
ELEVATION = 765.07

RIPRAP LIGHT (TYP)

+75.65
49.02' RT

+20.89
64.00' RT

+50.09
64.00' RT

PLACE SILT FENCE
1-FT INSIDE OF R/W

CONSTRUCT BERM

SLOPE INTERCEPT

CAUTION

4762+00

STA 4762+00
EXISTING 19x30-INCH CPRCHE
SLOPE AT 1.03%
ELEVATION = 764.55

WETLAND (TYP)

GRADE DITCH AT 0.30% FROM
STA 4762+00 TO STA 4766+00.

4761+00

GRADE AROUND POWER POLE.
ADJUST DITCH LOCATION AS
REQUIRED TO AVOID POWER POLE.

EXISTING 58TH ROAD

GRADE DITCH AT 0.67%
FROM STA 40+83 TO STA 4762+00.

MATCH EXISTING 18-INCH CMP CULVERT
STA 40+83, ELEVATION = 762.69

15' CONSTRUCTION
PERMIT REQUIRED

15'

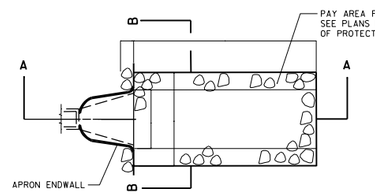
40+00

CAUTION

R/L PROPOSED
58TH ROAD

CAUTION

R/W

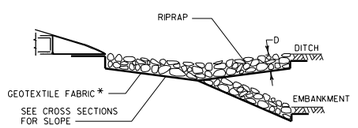


PLAN VIEW

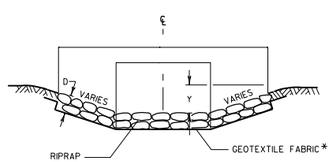
L = 3 x W (NOR) OR 10' MIN OR AS INDICATED IN THE PLANS OR AS DIRECTED BY THE ENGINEER
D = 12" FOR RIPRAP LIGHT, 18" FOR RIPRAP MEDIUM, 24" FOR RIPRAP HEAVY
X = W+2' FOR TYPICAL CULVERT DISCHARGE INTO DITCH
W+5' FOR CULVERT DISCHARGE DOWN EMBANKMENT SLOPE
Y = 0' FOR TYPICAL CULVERT DISCHARGE INTO DITCH
12" FOR CULVERT DISCHARGE DOWN EMBANKMENT SLOPE

* TYPE R (FOR RIPRAP LIGHT ONLY)
TYPE HR (FOR RIPRAP HEAVY AND MEDIUM ONLY)

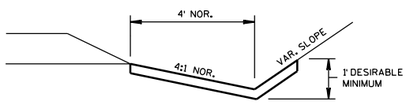
RIPRAP AND GEOTEXTILE FABRIC DETAIL AT APRON ENDWALLS



SECTION A-A



SECTION B-B



EROSION MAT DETAIL FOR DITCHES

081231

NOTES:
CONSTRUCT EARTH BERM FROM STA 4765+05 TO STA 4766+10 WITH EXCAVATION COMMON MATERIAL (APPROXIMATELY 50 CY). SEE CROSS SECTIONS FOR ADDITIONAL INFORMATION.

EXISTING CROSS CULVERT ELEVATIONS SHOWN ARE FROM PREVIOUS DESIGN. CONTRACTOR TO VERIFY CULVERT ELEVATIONS AND ADJUST DITCH TO PROVIDE POSITIVE DRAINAGE FROM THE CULVERT ELEVATION.

CONSTRUCT DITCH ALONG 58TH ROAD MAINTAINING A SINGLE LANE OF TRAFFIC AT ALL TIMES. SEE SDD "TRAFFIC CONTROL FOR LANE CLOSURE (SUITABLE FOR MOVING OPERATIONS)".

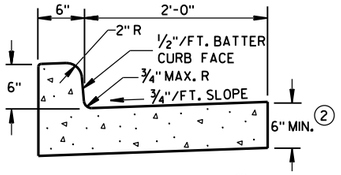
UTILITIES SHOWN ARE AS OF 2011. ENSURE CURRENT UTILITIES ARE LOCATED IN FIELD PRIOR TO PERFORMING CONSTRUCTION.

PROJECT NO: 1320-20-60	HWY: STH 11	COUNTY: RACINE	PLAN DETAIL AND EROSION CONTROL: W FRONTAGE/58TH RD DITCH	SHEET 91	E

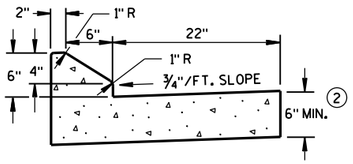
Standard Detail Drawing List

08D01-18	CONCRETE CURB, CONCRETE CURB AND GUTTER AND TIES
08D05-16A	CURB RAMPS TYPES 1 AND 1-A
08D05-16B	CURB RAMPS TYPES 2 AND 3
08D05-16C	CURB RAMPS TYPES 4A AND 4A1
08D05-16D	CURB RAMPS TYPE 4B AND 4B1
08D05-16E	CURB RAMPS TYPES 5, 6, 7A, 7B & 8
08E08-03	TYPICAL INSTALLATIONS OF EROSION BALES / TEMPORARY DITCH CHECKS
08E09-06	SILT FENCE
08E10-02	INLET PROTECTION TYPE A, B, C AND D
09B02-09	CONDUIT
09B04-11	PULL BOX
09F15-04A	LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 1)
09F15-04B	LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)
13A11-02A	2-LANE RURAL CENTER LINE RUMBLE STRIP, MILLING
13A11-02B	2-LANE RURAL CENTER LINE RUMBLE STRIP, MILLING
13C14-06A	BASE PATCHING CONCRETE
13C14-06B	BASE PATCHING CONCRETE
13C14-06C	BASE PATCHING CONCRETE
14B29-01	SAFETY EDGE
15C04-02	TRAFFIC CONTROL, ADVANCE WARNING SIGNS 45 M.P.H. OR GREATER TWO-WAY UNDIVIDED ROAD OPEN TO TRAFFIC
15C04-03	TRAFFIC CONTROL, ADVANCE WARNING SIGNS 45 M.P.H. OR GREATER TWO-WAY UNDIVIDED ROAD OPEN TO TRAFFIC
15C05-02	TRAFFIC CONTROL, ADVANCE WARNING SIGNS 40 M.P.H. OR LESS
15C05-03	TRAFFIC CONTROL, ADVANCE WARNING SIGNS 40 M.P.H. OR LESS
15C07-12B	PAVEMENT MARKING WORDS
15C07-12C	PAVEMENT MARKING ARROWS
15C08-16A	PAVEMENT MARKING (MAINLINE)
15C08-16B	PAVEMENT MARKING (INTERSECTIONS)
15C08-16E	PAVEMENT MARKING (LEFT TURN LANE)
15C11-06	FLEXIBLE TUBULAR MARKER POST
15C12-04	TRAFFIC CONTROL FOR LANE CLOSURE (SUITABLE FOR MOVING OPERATIONS)
15C19-02A	MOVING PAVEMENT MARKING OPERATION TWO-LANE TWO-WAY ROADWAY
15C19-03A	MOVING PAVEMENT MARKING OPERATION TWO-LANE TWO-WAY ROADWAY
15D12-05A	TRAFFIC CONTROL, LANE CLOSURE
15D28-02	TRAFFIC CONTROL, WORK ON SHOULDER OR PARKING LANE, UNDIVIDED ROADWAY
15D28-03	TRAFFIC CONTROL, WORK ON SHOULDER OR PARKING LANE, UNDIVIDED ROADWAY

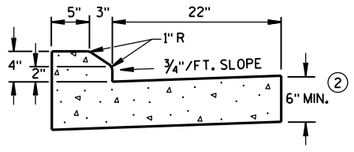
6



TYPES A & D ①

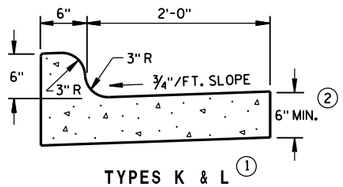


6" SLOPED CURB TYPES G & J ①

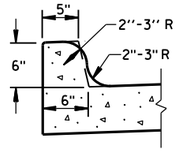


4" SLOPED CURB TYPES G & J ①

CONCRETE CURB & GUTTER 30"

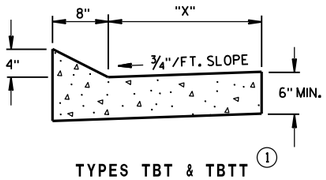


TYPES K & L ①



OPTIONAL CURB SHAPE FOR TYPES K & L ①

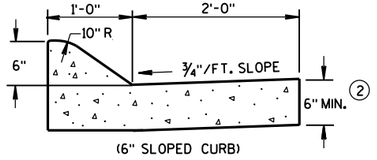
CONCRETE CURB & GUTTER 30"



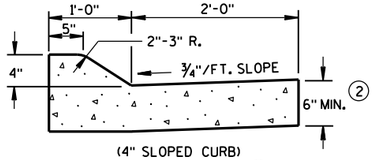
TYPES TBT & TBTT ①

CONCRETE CURB & GUTTER

TBT & TBTT	"X"
30"	22"
36"	28"

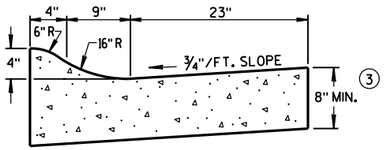


(6" SLOPED CURB)



(4" SLOPED CURB)

TYPES A & D ①



4" SLOPED CURB TYPES R & T ① ④

CONCRETE CURB & GUTTER 36"

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE CONTRACT.

PAVEMENT TIES AND TIE BARS SHALL BE EPOXY COATED IN CONFORMANCE WITH SUBSECTION 505.2.6.2 OF THE STANDARD SPECIFICATIONS.

INTEGRAL CURB & GUTTER SHALL CONFORM TO THE DETAILS SHOWN FOR CONCRETE CURB & GUTTER INCLUDING THE TRANSVERSE GUTTER SLOPE. A LONGITUDINAL CONSTRUCTION JOINT IS NOT REQUIRED WITH INTEGRAL CURB AND GUTTER.

WHERE THE TRANSVERSE JOINTS IN THE PAVEMENT ARE REQUIRED TO BE SEALED, THE JOINTS IN THE INTEGRAL CURB AND GUTTER SHALL BE SEALED TO THE FACE OF CURB WITH THE SAME TYPE OF SEALANT. THE COST OF FURNISHING AND INSTALLING THIS SEALANT SHALL BE INCIDENTAL TO THE ITEM CONCRETE CURB AND GUTTER.

UNLESS OTHERWISE SHOWN ON THE TYPICAL CROSS SECTIONS, THE BASE AGGREGATE AND COMMON EXCAVATION LIMITS ARE 2'-0" BEHIND THE BACK OF CURBS.

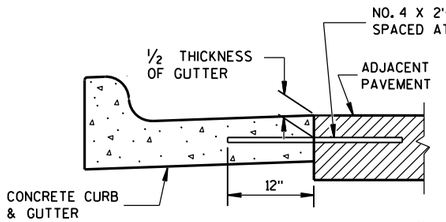
① TIE BARS ARE REQUIRED FOR CURB AND GUTTER TYPES A, G, K, R AND TBTT.

② THE BOTTOM OF CURB AND GUTTER MAY BE CONSTRUCTED EITHER LEVEL OR PARALLEL TO THE SLOPE OF THE SUBGRADE OR BASE AGGREGATE PROVIDED A 6" MINIMUM GUTTER THICKNESS IS MAINTAINED.

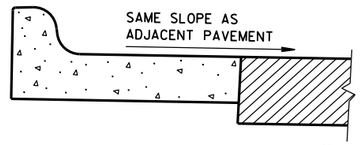
③ THE BOTTOM OF CURB AND GUTTER MAY BE CONSTRUCTED EITHER LEVEL OR PARALLEL TO THE SLOPE OF THE SUBGRADE OR BASE AGGREGATE PROVIDED A 8" MINIMUM GUTTER THICKNESS IS MAINTAINED.

④ THE FACE OF CURB IS 6" FROM THE BACK OF CURB.

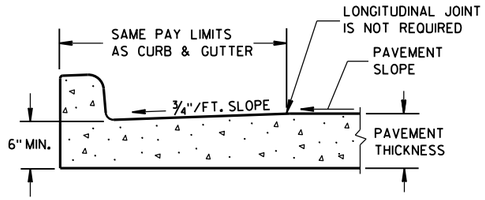
⑤ WHEN REVERSE SLOPE GUTTER IS REQUIRED, THE LOCATION(S) WILL BE SHOWN ELSEWHERE IN THE PLAN.



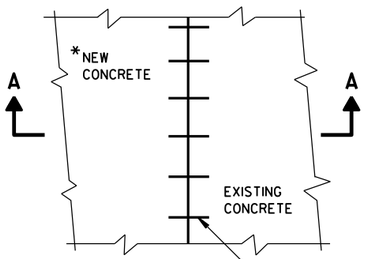
TYPICAL TIE BAR LOCATION ①



REVERSE SLOPE GUTTER ⑤
(TYPICAL FOR ALL CURB & GUTTER TYPES)

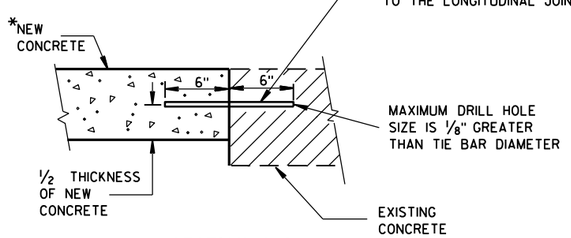


PARTIAL SECTION OF PAVEMENT
WITH INTEGRAL CURB & GUTTER



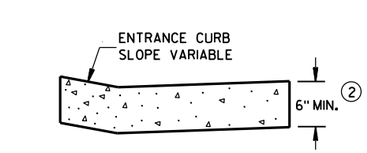
PLAN VIEW

*NEW CURB & GUTTER, SURFACE DRAINS, CONCRETE PAVEMENT OR OTHER NEW CONCRETE.

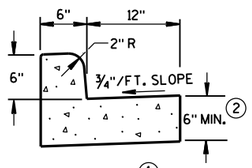


SECTION A-A

TIE BARS DRILLED
INTO EXISTING PAVEMENT

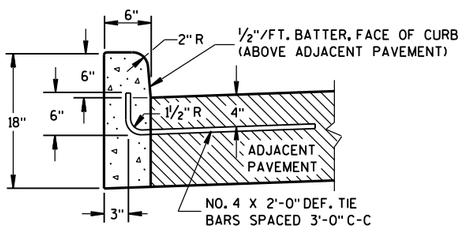


DRIVEWAY ENTRANCE CURB
(WHEN DIRECTED BY THE ENGINEER)

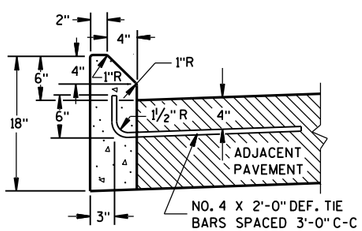


① TYPES A & D

CONCRETE CURB & GUTTER 18"

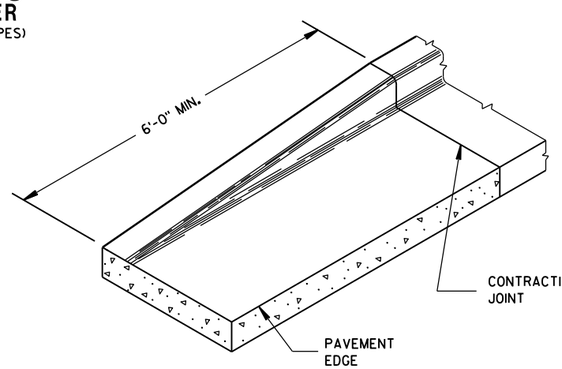


① TYPES A & D



① TYPES G & J

CONCRETE CURB



END SECTION CURB & GUTTER

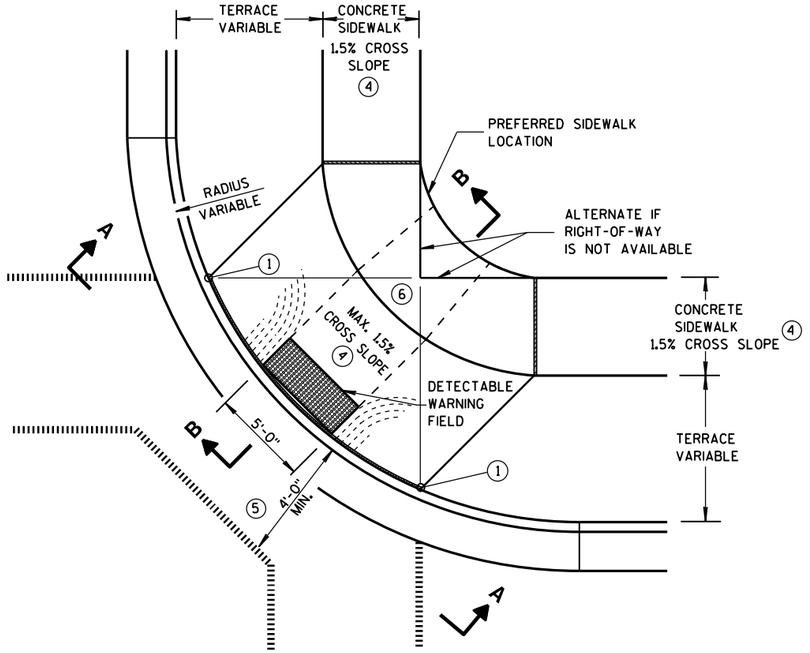
CONCRETE CURB, CONCRETE CURB & GUTTER AND TIES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
June, 2015 — DATE
/S/ Jerry H. Zogg — ROADWAY STANDARDS ENGINEER
FHWA

6

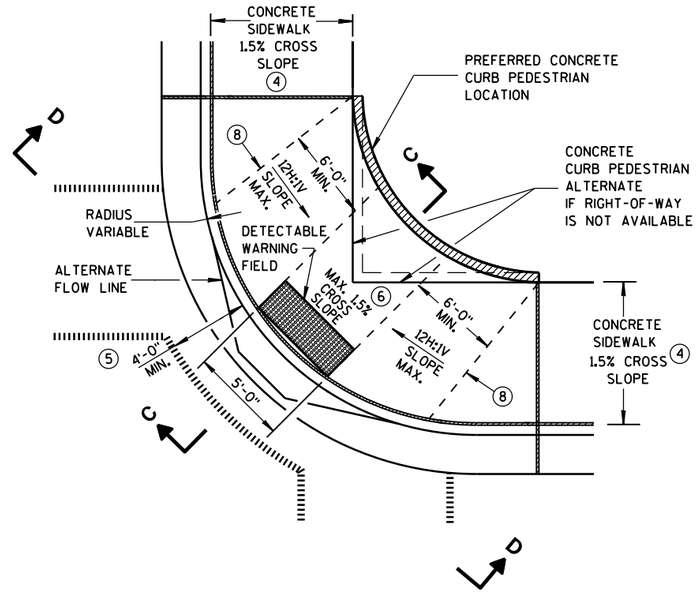
S.D.D. 8 D 1-18



PLAN VIEW

TYPE 1 RAMP

(CENTER OF CORNER RADIUS)



PLAN VIEW

TYPE 1-A RAMP

(NO TERRACE)

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

WHEN NECESSARY, THE SIDEWALK ELEVATION MAY BE LOWERED TO MEET THE HIGH POINT ON THE RAMP.

TYPE 1 RAMPS SHALL HAVE A NORMAL SIDEWALK APRON AND CURB ON BOTH SIDES OF RAMP.

DETECTABLE WARNING FIELD SHALL BE MEASURED AND PAID BY THE SQUARE FOOT AS "CURB RAMP DETECTABLE WARNING FIELD". THE CONCRETE PEDESTRIAN CURB, IF NEEDED, SHALL BE MEASURED AND PAID BY THE LINEAL FOOT AS "CONCRETE CURB PEDESTRIAN". CONCRETE SIDEWALK IN THE CURB RAMP AREA SHALL BE MEASURED AND PAID BY THE SQUARE FOOT AS CONCRETE SIDEWALK, INCLUDING THE AREA UNDER THE DETECTABLE WARNING FIELD.

SELECT CURB RAMP DETECTABLE WARNING FIELD MATERIALS AND DEVICES FROM THE DEPARTMENT'S APPROVED MATERIALS LIST. THE COLOR OF THE DETECTABLE WARNING FIELD IS SPECIFIED ELSEWHERE AND IS INCIDENTAL TO THE BID ITEM OF "CURB RAMP DETECTABLE WARNING FIELD".

DETECTABLE WARNING FIELDS THAT ARE INSTALLED AS A GROUP OR SIDE BY SIDE, SHALL BE FROM THE SAME MANUFACTURER.

SURFACE TEXTURE OF THE RAMP SHALL BE OBTAINED BY COARSE BROOMING TRANSVERSE TO THE SLOPE OF THE RAMP.

(1) THIS POINT IS AN EXTENSION OF OUTSIDE EDGE OF APPROACHING SIDEWALK WHERE IT MEETS THE BACK OF CONCRETE CURB.

(2) GRADE CHANGE BETWEEN GUTTER FLAG SLOPE AND THE CURB RAMP SLOPE SHALL NOT EXCEED 11%. MAXIMUM GUTTER FLAG SLOPE IS 4%. PROVIDE DRAINAGE AWAY FROM CURB RAMP AT GUTTER FLAG INTERFACE. NO VERTICAL LIPS OR DISCONTINUITIES GREATER THAN 1/4-INCH ARE ALLOWED.

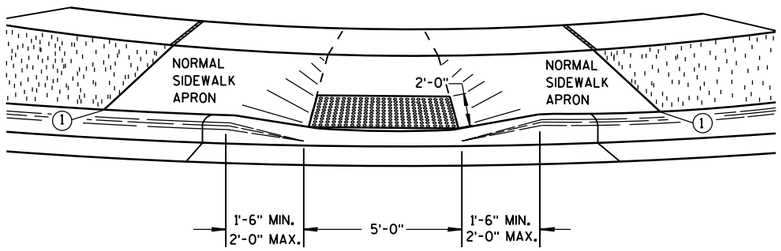
(3) ABSOLUTE MAXIMUM 12H:1V (8.33%) CURB RAMP SLOPE IS ALLOWABLE WITH FLATTENED GUTTER FLAG SLOPE AND NOT TO EXCEED 11% GRADE CHANGE.

(4) ±0.5% CONSTRUCTION TOLERANCE IN SIDEWALK CROSS SLOPE. THE SIDEWALK CROSS SLOPE SHALL NOT EXCEED 2% WITHOUT PRIOR APPROVAL FROM THE ENGINEER.

(5) PROVIDE A LEVEL LANDING IN THE STREET AND GUTTER AREA. (2% MAXIMUM SLOPE IN ANY DIRECTION). WHEN THE GUTTER SLOPE EXCEEDS 2%, CONSTRUCT THE LEVEL LANDING IN THE STREET AREA.

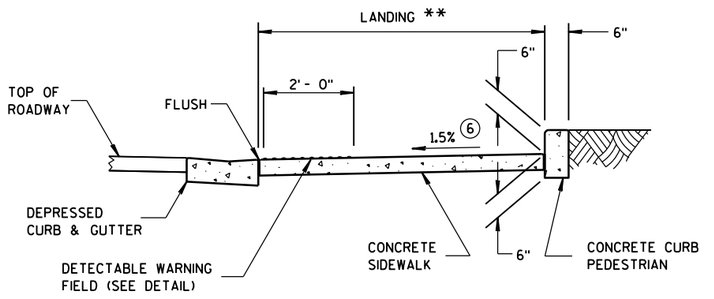
(6) PROVIDE A LEVEL LANDING (MAXIMUM 2% SLOPE) IN ANY DIRECTION OF PEDESTRIAN TRAVEL. STANDARD LANDING SIZE IS 5 FEET X 5 FEET (MINIMUM 4 FEET X 4 FEET).

(8) PROVIDE GRADE BREAK PERPENDICULAR TO DIRECTION OF WHEELCHAIR TRAVEL.



VIEW A-A

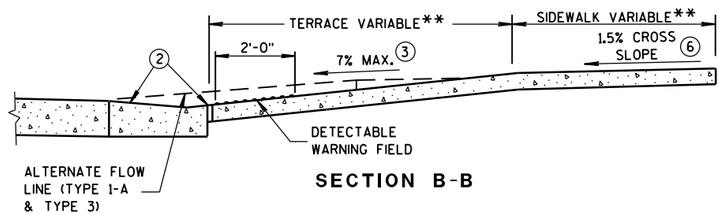
** WIDTH SHOWN ELSEWHERE IN THE PLANS



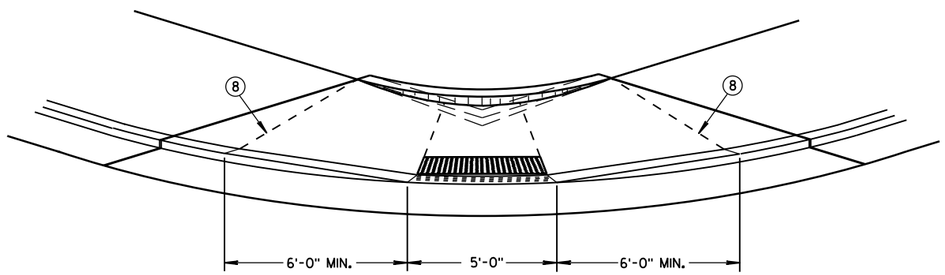
SECTION C-C

LEGEND

- ½" EXPANSION JOINT-SIDEWALK
- CONTRACTION JOINT FIELD LOCATED
- PAVEMENT MARKING CROSSWALK (WHITE)
- ALTERNATIVE LAYOUT

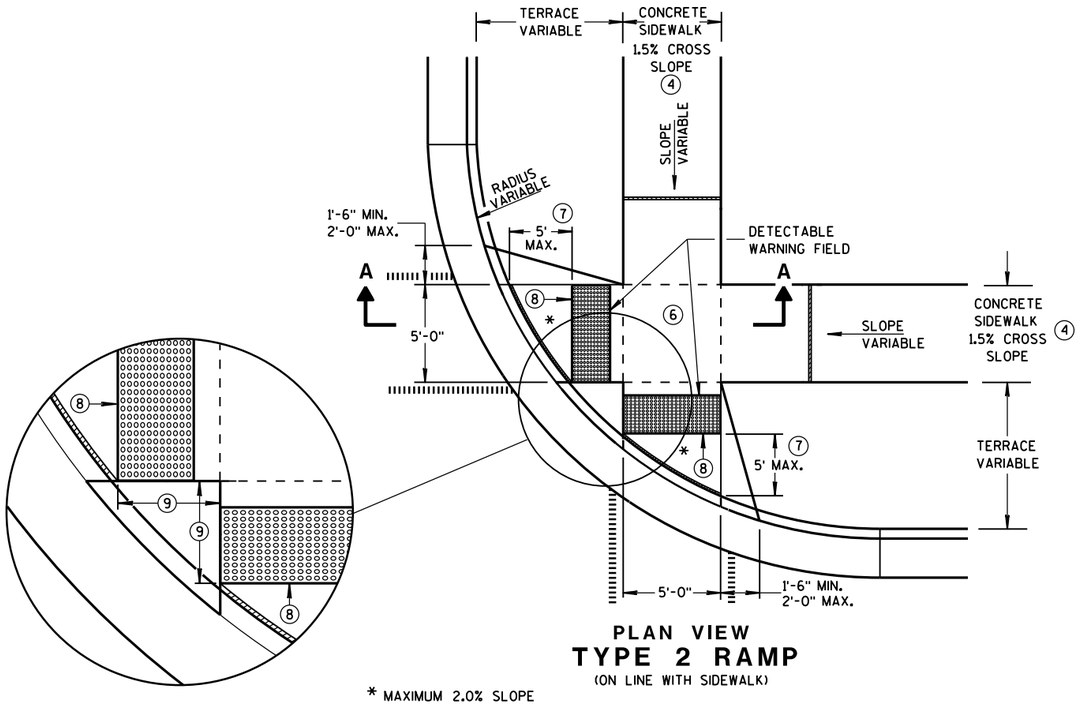


SECTION B-B



VIEW D-D

CURB RAMPS TYPES 1 AND 1-A

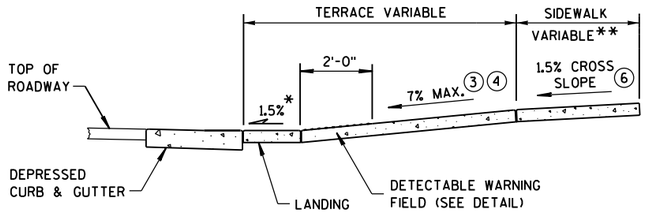


PLAN VIEW

TYPE 2 RAMP

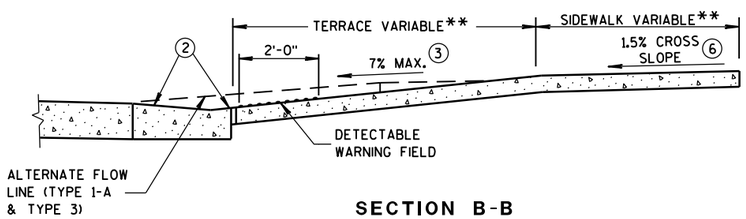
(ON LINE WITH SIDEWALK)

* MAXIMUM 2.0% SLOPE IN ALL DIRECTIONS IN FRONT OF GRADE BREAK



SECTION A-A

** WIDTH SHOWN ELSEWHERE IN THE PLANS



SECTION B-B

GENERAL NOTES

USE THE TYPE 3 RAMP ONLY WHEN A TYPE 1 OR TYPE 2 CANNOT BE ACHIEVED BECAUSE OF FIELD CONDITIONS.

DETECTABLE WARNING FIELDS THAT ARE INSTALLED AS A GROUP OR SIDE BY SIDE, SHALL BE FROM THE SAME MANUFACTURER.

(2) GRADE CHANGE BETWEEN GUTTER FLAG SLOPE AND THE CURB RAMP SLOPE SHALL NOT EXCEED 11%. MAXIMUM GUTTER FLAG SLOPE IS 4%. PROVIDE DRAINAGE AWAY FROM CURB RAMP AT GUTTER FLAG INTERFACE. NO VERTICAL LIPS OR DISCONTINUITIES GREATER THAN 1/4-INCH ARE ALLOWED.

(3) ABSOLUTE MAXIMUM 12H:1V (8.33%) CURB RAMP SLOPE IS ALLOWABLE WITH FLATTENED GUTTER FLAG SLOPE AND NOT TO EXCEED 11% GRADE CHANGE.

(4) ±0.5% CONSTRUCTION TOLERANCE IN SIDEWALK CROSS SLOPE. THE SIDEWALK CROSS SLOPE SHALL NOT EXCEED 2% WITHOUT PRIOR APPROVAL FROM THE ENGINEER.

(6) PROVIDE A LEVEL LANDING (MAXIMUM 2% SLOPE) IN ANY DIRECTION OF PEDESTRIAN TRAVEL. STANDARD LANDING SIZE IS 5 FEET X 5 FEET (MINIMUM 4 FEET X 4 FEET).

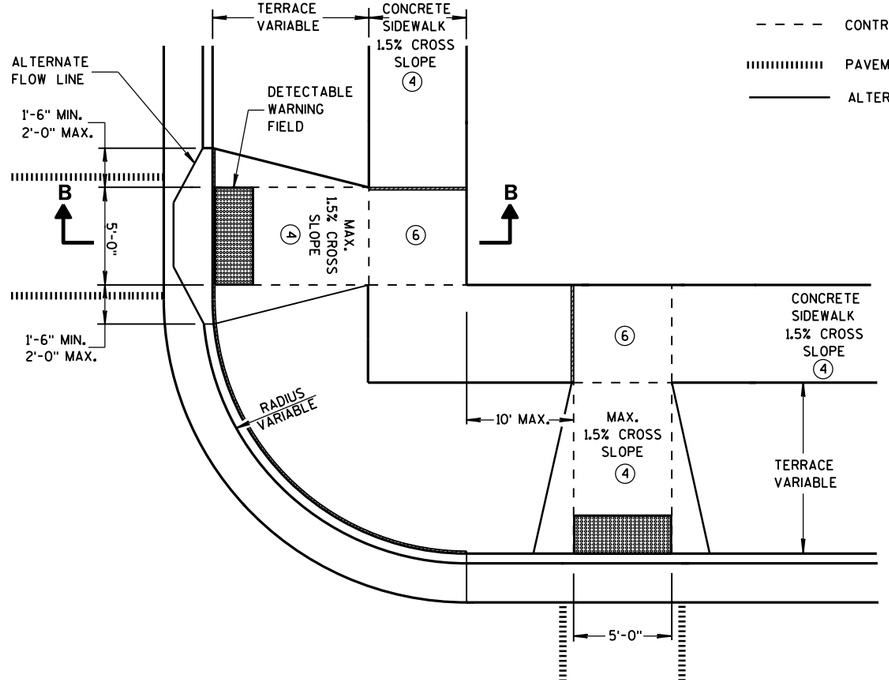
(7) WHEN THIS DISTANCE EXCEEDS 5 FEET, USE MULTIPLE DETECTABLE WARNING PANELS ACROSS THE RAMP AND STAGGER ADDITIONAL DETECTABLE WARNING PANEL(S) FORWARD TO REDUCE THIS DISTANCE.

(8) PROVIDE GRADE BREAK PERPENDICULAR TO DIRECTION OF WHEELCHAIR TRAVEL.

(9) WHEN THIS DISTANCE IS LESS THAN 6'-0", IT MAY BE DIFFICULT TO ACHIEVE A 7% SLOPE OR FLATTER ALONG THE RAMP. REDUCE CURB HEIGHT IN TRIANGLE AREA TO ACHIEVE 7% SLOPE OR FLATTER ON RAMP. 2" MINIMUM CURB HEIGHT.

LEGEND

- ½" EXPANSION JOINT-SIDEWALK
- CONTRACTION JOINT FIELD LOCATED
- PAVEMENT MARKING CROSSWALK (WHITE)
- ALTERNATIVE LAYOUT



PLAN VIEW

TYPE 3 RAMP

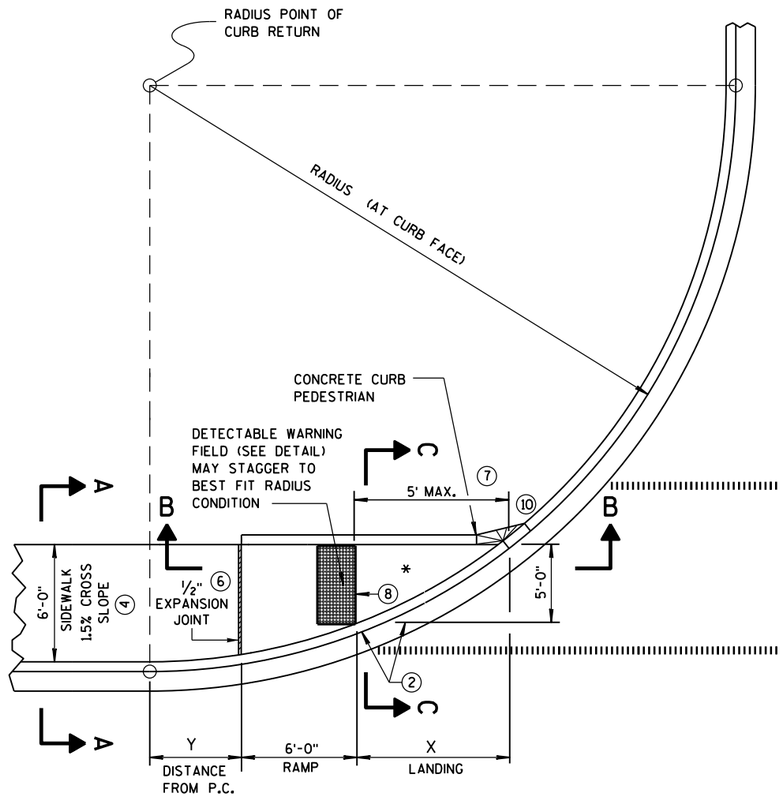
(OUTSIDE OF CROSSWALK AREA)

CURB RAMPS TYPES 2 AND 3

STATE OF WISCONSIN
DEPARTMENT OF TRANSPOR

6

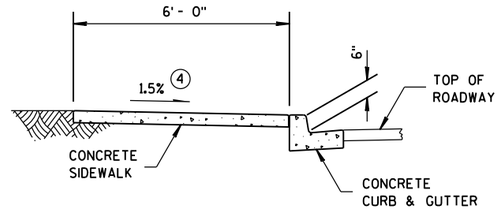
S.D.D. 8 D 5-16b



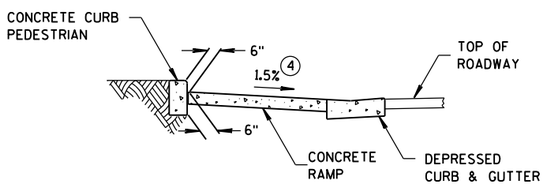
CURB RAMP TYPE 4A
PLAN VIEW

RADIUS (AT CURB FACE)	X	Y
20 FEET	6'-1¾"	2'-7¼"
30 FEET	7'-11¾"	4'-8¼"
40 FEET	9'-5¼"	6'-5"
50 FEET	10'-8¾"	7'-11¼"
60 FEET	11'-10¼"	9'-3½"

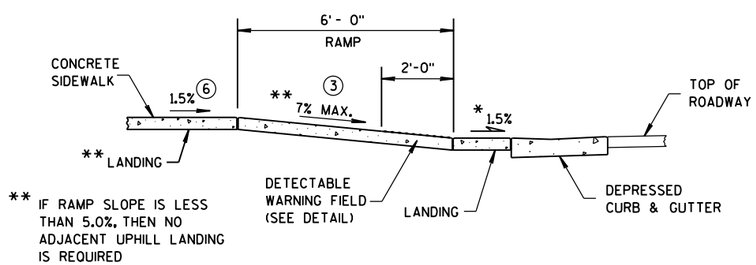
INTERMEDIATE RADII CAN BE INTERPOLATED



SECTION A-A FOR TYPE 4A

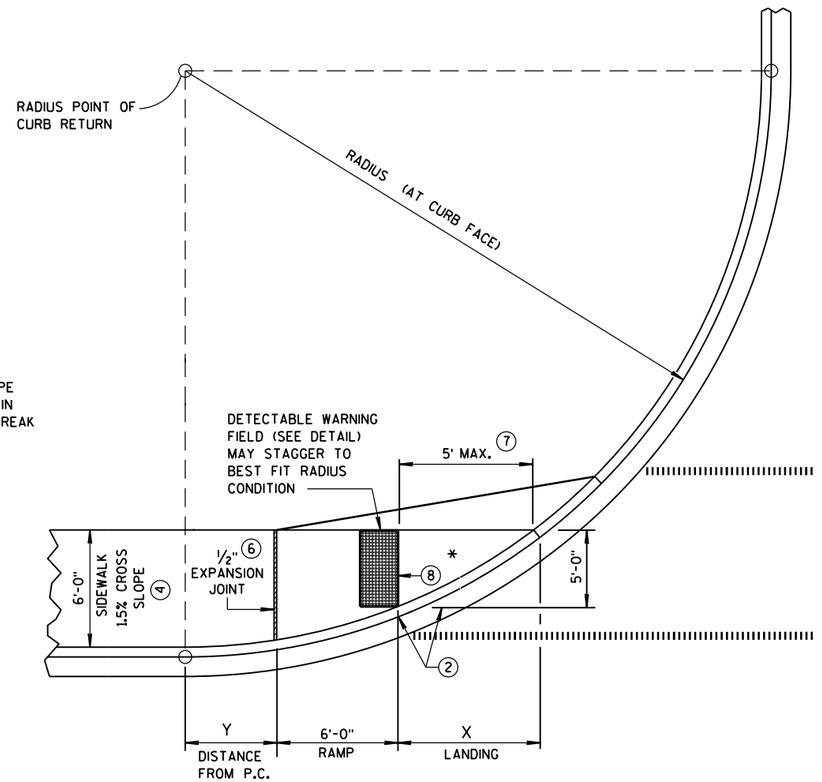


SECTION C-C FOR TYPE 4A



SECTION B-B FOR TYPE 4A

* MAXIMUM 2.0% SLOPE IN ALL DIRECTIONS IN FRONT OF GRADE BREAK



CURB RAMP TYPE 4A1
PLAN VIEW

GENERAL NOTES

AVOID PLACING DRAINAGE STRUCTURES, JUNCTION BOXES OR OTHER OBSTRUCTIONS IN FRONT OF RAMP ACCESS AREAS.

DETECTABLE WARNING FIELDS THAT ARE INSTALLED AS A GROUP OR SIDE BY SIDE, SHALL BE FROM THE SAME MANUFACTURER.

(2) GRADE CHANGE BETWEEN GUTTER FLAG SLOPE AND THE CURB RAMP SLOPE SHALL NOT EXCEED 11%. MAXIMUM GUTTER FLAG SLOPE IS 4%. PROVIDE DRAINAGE AWAY FROM CURB RAMP AT GUTTER FLAG INTERFACE. NO VERTICAL LIPS OR DISCONTINUITIES GREATER THAN 1/4-INCH ARE ALLOWED.

(3) ABSOLUTE MAXIMUM 12H:1V (8.33%) CURB RAMP SLOPE IS ALLOWABLE WITH FLATTENED GUTTER FLAG SLOPE AND NOT TO EXCEED 11% GRADE CHANGE.

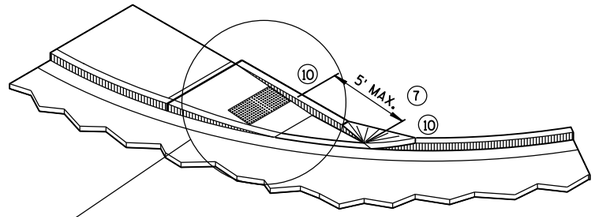
(4) ±0.5% CONSTRUCTION TOLERANCE IN SIDEWALK CROSS SLOPE. THE SIDEWALK CROSS SLOPE SHALL NOT EXCEED 2% WITHOUT PRIOR APPROVAL FROM THE ENGINEER.

(6) PROVIDE A LEVEL LANDING (MAXIMUM 2% SLOPE) IN ANY DIRECTION OF PEDESTRIAN TRAVEL. STANDARD LANDING SIZE IS 5 FEET X 5 FEET (MINIMUM 4 FEET X 4 FEET).

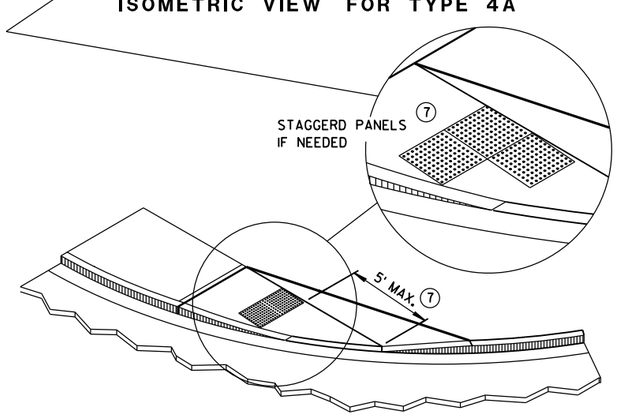
(7) WHEN THIS DISTANCE EXCEEDS 5 FEET, USE MULTIPLE DETECTABLE WARNING PANELS ACROSS THE RAMP AND STAGGER ADDITIONAL DETECTABLE WARNING PANEL(S) FORWARD TO REDUCE THIS DISTANCE.

(8) PROVIDE GRADE BREAK PERPENDICULAR TO DIRECTION OF WHEELCHAIR TRAVEL.

(10) INSTALL TRANSITION NOSE. (INCIDENTAL TO OTHER PAY ITEMS). DO NOT MARK TRANSITION NOSE.



ISOMETRIC VIEW FOR TYPE 4A



ISOMETRIC VIEW FOR TYPE 4A1

LEGEND

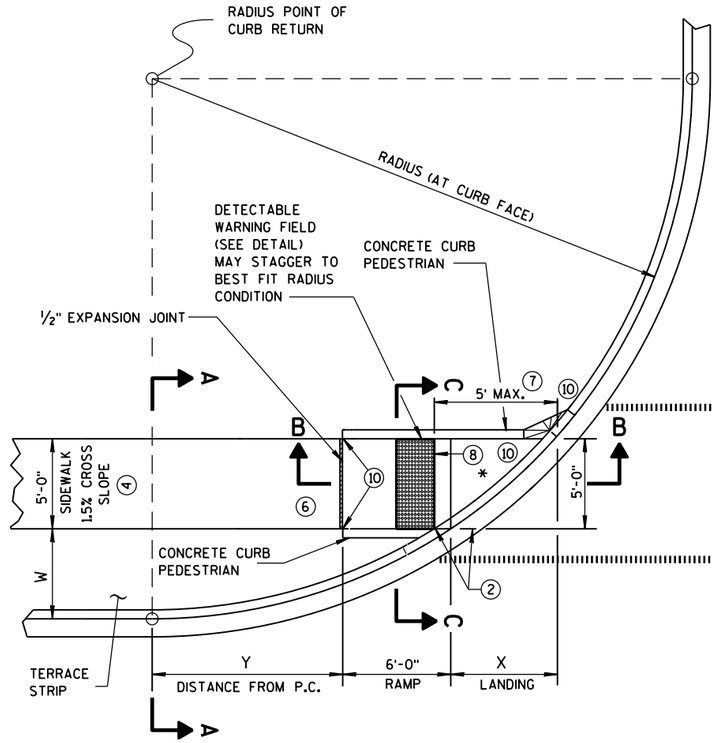
- ½" EXPANSION JOINT-SIDEWALK
- CONTRACTION JOINT FIELD LOCATED
- PAVEMENT MARKING CROSSWALK (WHITE)

CURB RAMPS TYPES 4A AND 4A1

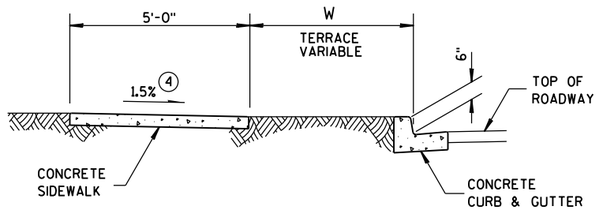
STATE OF WISCONSIN
DEPARTMENT OF TRANSPOR

6

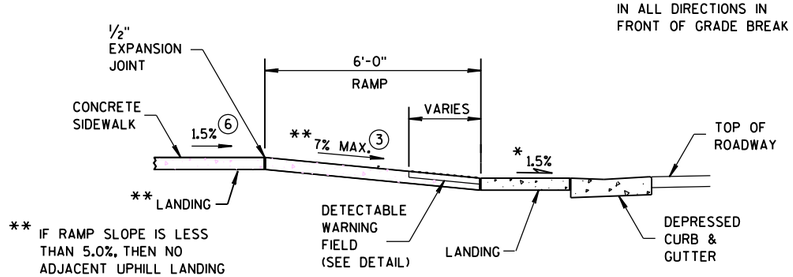
S.D.D. 8 D 5-16c



CURB RAMP TYPE 4B
PLAN VIEW



SECTION A-A FOR TYPE 4B



* MAXIMUM 2.0% SLOPE IN ALL DIRECTIONS IN FRONT OF GRADE BREAK

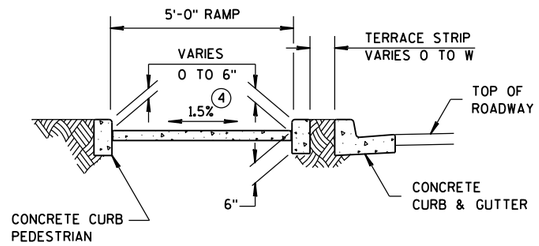
SECTION B-B FOR TYPE 4B

LEGEND

½" EXPANSION JOINT-SIDEWALK

CONTRACTION JOINT FIELD LOCATED

PAVEMENT MARKING CROSSWALK (WHITE)



SECTION C-C FOR TYPE 4B

RADIUS (AT CURB FACE)	W = 3'-0"		W = 4'-0"		W = 5'-0"		W = 6'-0"		W = 7'-0"	
	X	Y	X	Y	X	Y	X	Y	X	Y
20 FEET	5'-5½"	4'-6½"	4'-8½"	6'-0"	4'-1"	7'-2¾"	3'-7"	8'-3½"	3'-1½"	9'-2½"
30 FEET	7'-3¾"	7'-1"	6'-5½"	8'-11½"	5'-9¼"	10'-7"	5'-2½"	12'-0"	4'-8¾"	13'-3¼"
40 FEET	8'-9½"	9'-2½"	7'-10"	11'-5¼"	7'-1"	13'-4½"	6'-5¾"	15'-¾"	5'-11½"	16'-7¼"
50 FEET	10'-¾"	11'-¾"	9'-¼"	13'-7¼"	8'-2½"	15'-9½"	7'-6½"	17'-9"	6'-11¾"	19'-6¼"
60 FEET	11'-2½"	12'-8¾"	10'-¾"	15'-6½"	9'-2¼"	17'-11¾"	8'-5¾"	20'-1¾"	7'-10½"	22'-1½"

INTERMEDIATE RADII CAN BE INTERPOLATED

GENERAL NOTES

AVOID PLACING DRAINAGE STRUCTURES, JUNCTION BOXES OR OTHER OBSTRUCTIONS IN FRONT OF RAMP ACCESS AREAS.

DETECTABLE WARNING FIELDS THAT ARE INSTALLED AS A GROUP OR SIDE BY SIDE, SHALL BE FROM THE SAME MANUFACTURER.

(2) GRADE CHANGE BETWEEN GUTTER FLAG SLOPE AND THE CURB RAMP SLOPE SHALL NOT EXCEED 11%. MAXIMUM GUTTER FLAG SLOPE IS 4%. PROVIDE DRAINAGE AWAY FROM CURB RAMP AT GUTTER FLAG INTERFACE. NO VERTICAL LIPS OR DISCONTINUITIES GREATER THAN ¼-INCH ARE ALLOWED.

(3) ABSOLUTE MAXIMUM 12H:1V (8.33%) CURB RAMP SLOPE IS ALLOWABLE WITH FLATTENED GUTTER FLAG SLOPE AND NOT TO EXCEED 11% GRADE CHANGE.

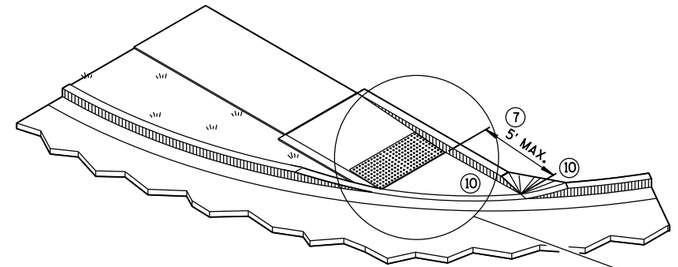
(4) ±0.5% CONSTRUCTION TOLERANCE IN SIDEWALK CROSS SLOPE. THE SIDEWALK CROSS SLOPE SHALL NOT EXCEED 2% WITHOUT PRIOR APPROVAL FROM THE ENGINEER.

(6) PROVIDE A LEVEL LANDING (MAXIMUM 2% SLOPE) IN ANY DIRECTION OF PEDESTRIAN TRAVEL. STANDARD LANDING SIZE IS 5 FEET X 5 FEET (MINIMUM 4 FEET X 4 FEET).

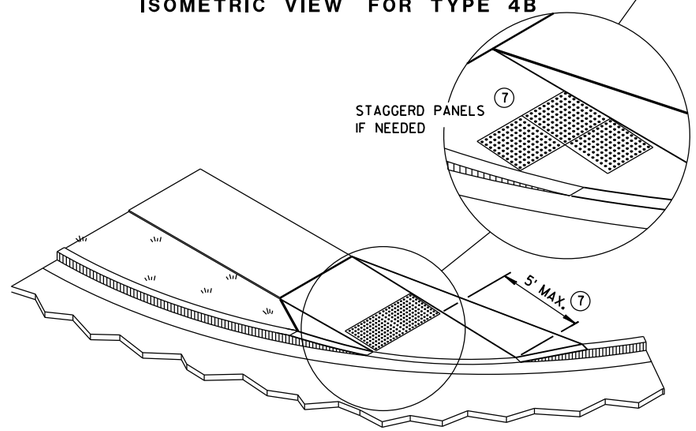
(7) WHEN THIS DISTANCE EXCEEDS 5 FEET, USE MULTIPLE DETECTABLE WARNING PANELS ACROSS THE RAMP AND STAGGER ADDITIONAL DETECTABLE WARNING PANEL(S) FORWARD TO REDUCE THIS DISTANCE.

(8) PROVIDE GRADE BREAK PERPENDICULAR TO DIRECTION OF WHEELCHAIR TRAVEL.

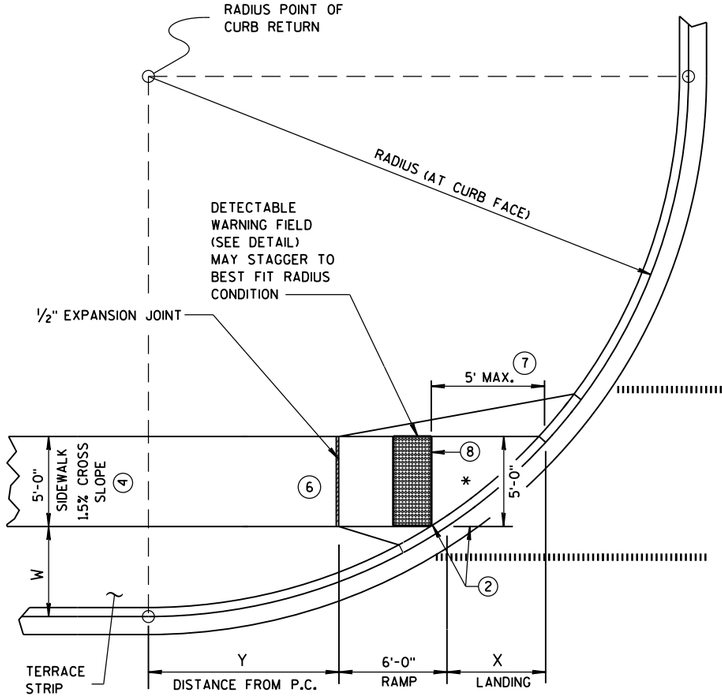
(10) INSTALL TRANSITION NOSE. (INCIDENTAL TO OTHER PAY ITEMS). DO NOT MARK TRANSITION NOSE.



ISOMETRIC VIEW FOR TYPE 4B



ISOMETRIC VIEW FOR TYPE 4B1



CURB RAMP TYPE 4B1
PLAN VIEW

CURB RAMPS
TYPE 4B AND 4B1

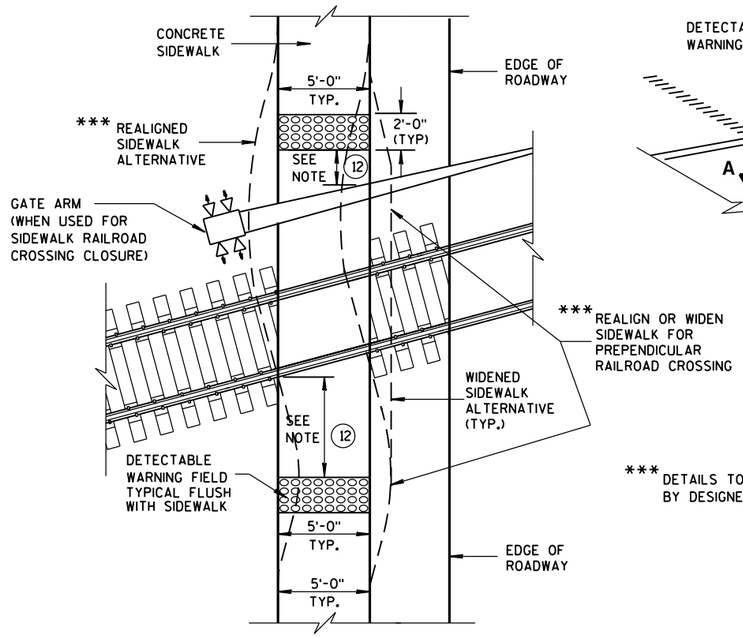
STATE OF WISCONSIN
DEPARTMENT OF TRANSPOI

6

S.D.D. 8 D 5-16d

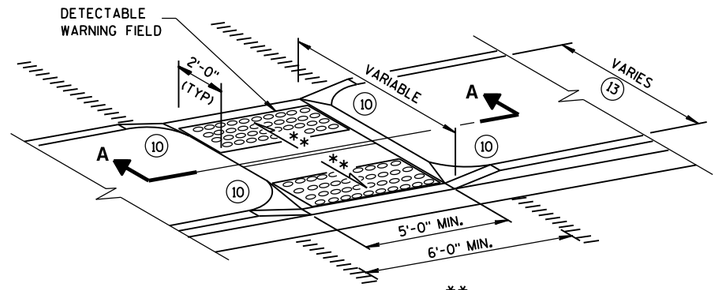
6

S.D.D. 8 D 5-16d



TYPE 8
DETECTABLE WARNINGS AT RAILROAD CROSSING

*** DETAILS TO BE DETERMINED BY DESIGNER



** 1% MIN. (PROVIDE DRAINAGE)

MEDIAN ISLAND
NON-ELEVATED CROSSING
TYPE 5

GENERAL NOTES

SIDEWALK CROSS SLOPE SHALL NOT EXCEED 2%.

DETECTABLE WARNING FIELDS THAT ARE INSTALLED AS A GROUP OR SIDE BY SIDE, SHALL BE FROM THE SAME MANUFACTURER.

(2) GRADE CHANGE BETWEEN GUTTER FLAG SLOPE AND THE CURB RAMP SLOPE SHALL NOT EXCEED 11%. MAXIMUM GUTTER FLAG SLOPE IS 4%. PROVIDE DRAINAGE AWAY FROM CURB RAMP AT GUTTER FLAG INTERFACE. NO VERTICAL LIPS OR DISCONTINUITIES GREATER THAN 1/4-INCH ARE ALLOWED.

(3) ABSOLUTE MAXIMUM 12H:1V (8.33%) CURB RAMP SLOPE IS ALLOWABLE WITH FLATTENED GUTTER FLAG SLOPE AND NOT TO EXCEED 11% GRADE CHANGE.

(4) ±0.5% CONSTRUCTION TOLERANCE IN SIDEWALK CROSS SLOPE. THE SIDEWALK CROSS SLOPE SHALL NOT EXCEED 2% WITHOUT PRIOR APPROVAL FROM THE ENGINEER.

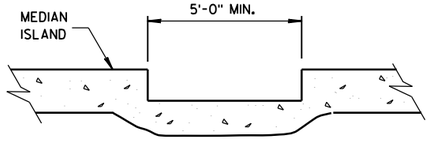
(6) PROVIDE A LEVEL LANDING (MAXIMUM 2% SLOPE) IN ANY DIRECTION OF PEDESTRIAN TRAVEL. STANDARD LANDING SIZE IS 5 FEET X 5 FEET (MINIMUM 4 FEET X 4 FEET).

(10) INSTALL TRANSITION NOSE. (INCIDENTAL TO OTHER PAY ITEMS). DO NOT MARK TRANSITION NOSE.

(11) SLOPE SIDEWALK TOWARD LANDING AS SHOWN WHERE THERE IS NO TERRACE OR WHERE THE TERRACE WIDTH IS LESS THAN 6 FEET WIDE.

(12) THE EDGE OF THE DETECTABLE WARNING FIELD NEAREST TO A RAILROAD CROSSING SHALL BE 1.5 FEET ± 0.1' FROM THE FACE OF THE GATE ARM IF THE GATE ARM EXTENDS ACROSS THE SIDEWALK. WHERE THERE IS NO PEDESTRIAN GATE, THE EDGE OF THE DETECTABLE WARNING FIELD NEAREST TO THE RAILROAD CROSSING SHALL BE 15 FEET FROM THE NEAREST RAIL.

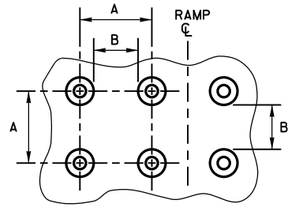
(13) DO NOT INSTALL DETECTABLE WARNING FIELDS IF MEDIAN WIDTH BETWEEN BACK OF CURBS IS LESS THAN 6 FEET.



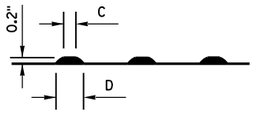
SECTION A-A

	MIN.	MAX.
A	1.6"	2.4"
B	0.65"	1.5"
C	*	*
D	0.9"	1.4"

* THE C DIMENSION IS 50% TO 65% OF THE D DIMENSION.

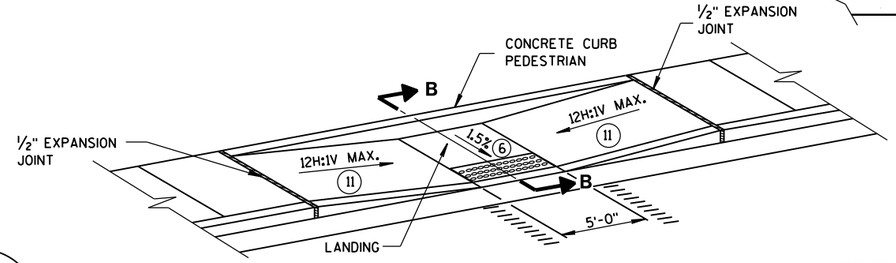


PLAN VIEW

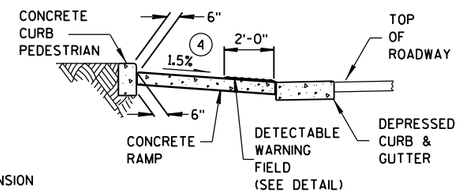


ELEVATION VIEW

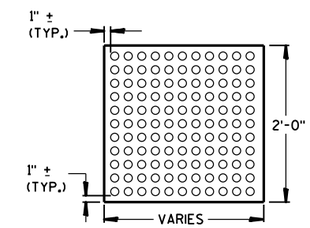
TRUNCATED DOMES
DETECTABLE WARNING PATTERN DETAIL



MID-BLOCK CROSSING
TYPE 7A



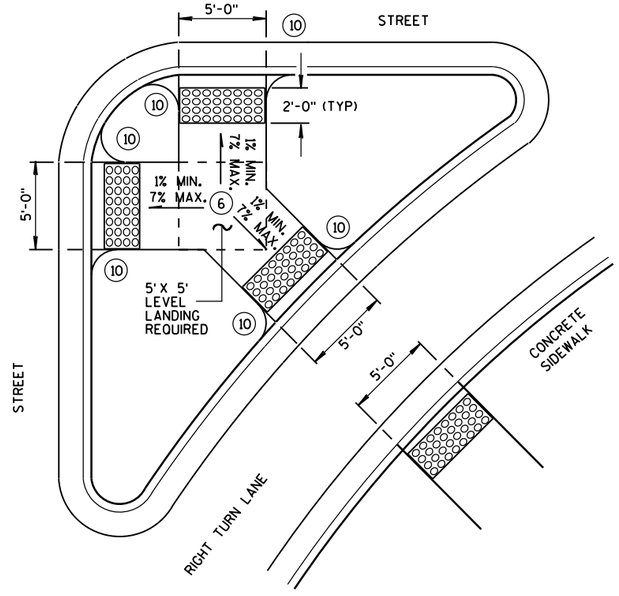
SECTION B-B



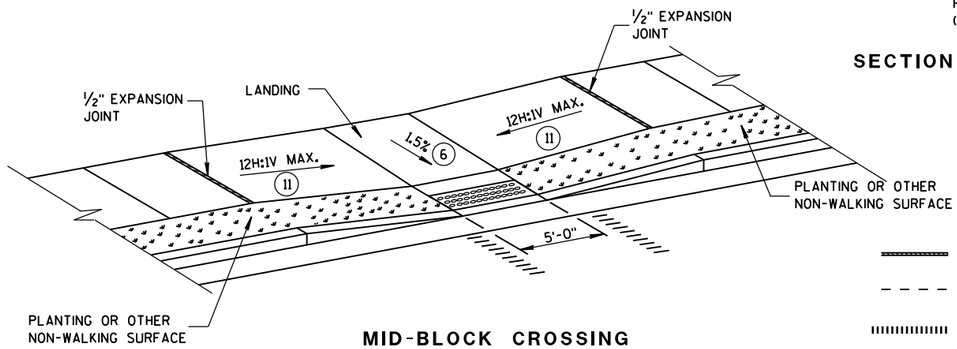
PLAN VIEW

DETECTABLE WARNING FIELD (TYPICAL)

REFER TO GENERAL NOTES (2) AND (3) FOR ALL ISLAND CURB RAMPS



TYPE 6
DETECTABLE WARNING AT ISLANDS



MID-BLOCK CROSSING
TYPE 7B

NOTE: THESE PARALLEL AND PARALLEL/PERPENDICULAR CURB RAMPS MAY BE USED AT INTERSECTIONS AND MID BLOCK LOCATIONS.

LEGEND

- 1/2" EXPANSION JOINT-SIDEWALK
- CONTRACTION JOINT FIELD LOCATED
- PAVEMENT MARKING CROSSWALK (WHITE)

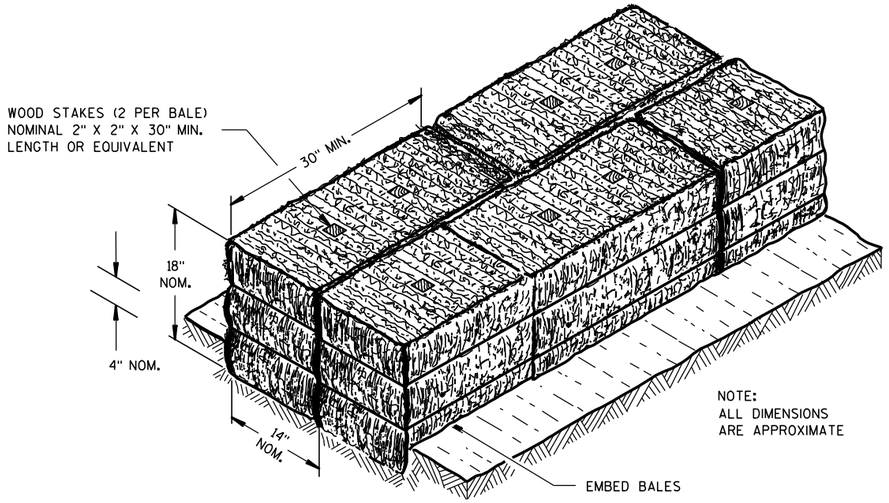
CURB RAMPS
TYPES 5, 6, 7A, 7B & 8

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

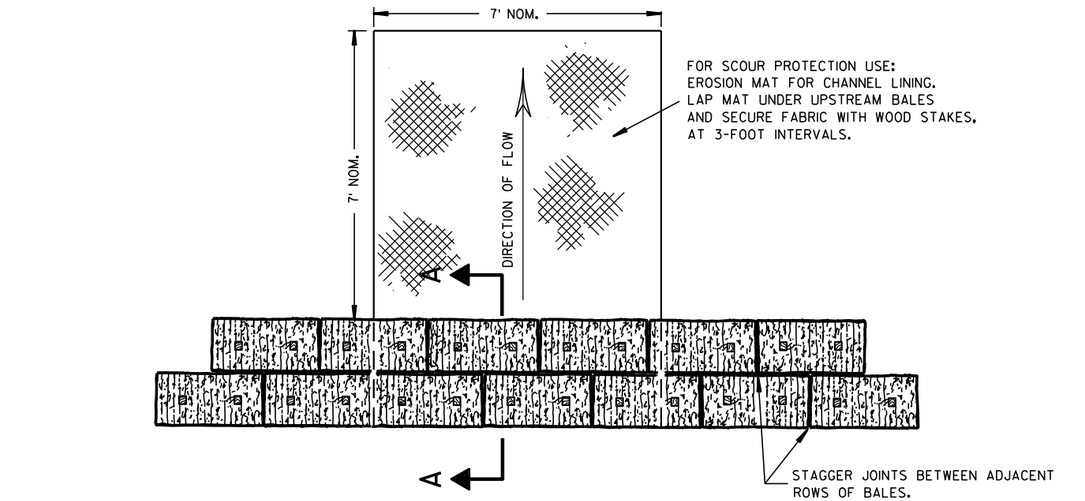
APPROVED
June, 2015 — DATE
/S/ Jerry H. Zogg — ROADWAY STANDARDS DEVELOPMENT ENGINEER
FHWA

6

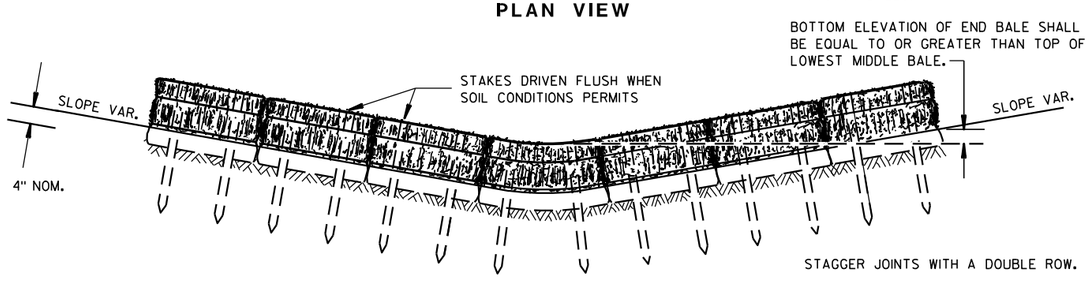
S.D.D. 8 D 5-16e



SECTION A-A



PLAN VIEW



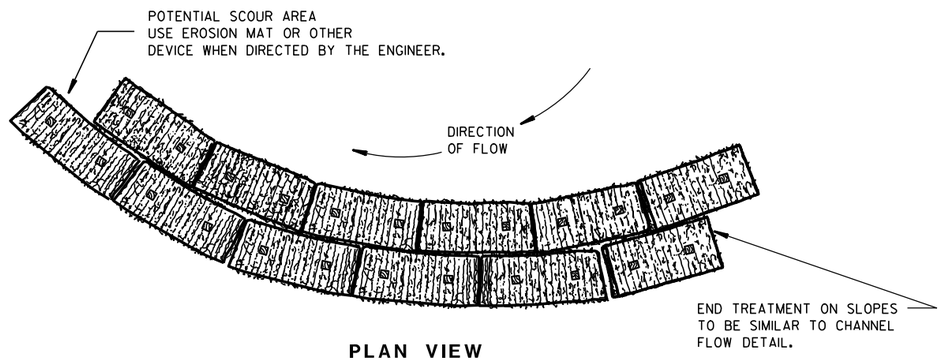
FRONT ELEVATION

TEMPORARY DITCH CHECK USING EROSION BALES ①

GENERAL NOTES

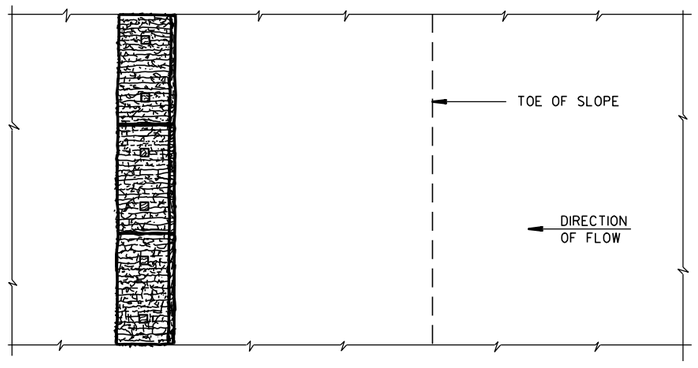
DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

① TEMPORARY DITCH CHECKS EITHER EROSION BALES OR MANUFACTURED SHALL BE PAID FOR UNDER THE BID ITEM OF TEMPORARY DITCH CHECK. THE DEPARTMENT WILL NOT PAY FOR TEMPORARY DITCH CHECKS CONSTRUCTED OF A SINGLE ROW OF EROSION BALES.

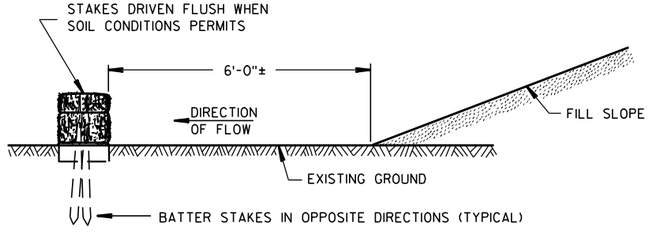


PLAN VIEW

WHEN ALTERING THE DIRECTION OF FLOW



PLAN VIEW



FRONT ELEVATION

WHEN EXISTING GROUND SLOPES AWAY FROM FILL SLOPE

EROSION BALES FOR SHEET FLOW

TYPICAL INSTALLATIONS OF EROSION BALES / TEMPORARY DITCH CHECKS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

6/04/02 DATE — /S/ Beth Cannestra — CHIEF ROADWAY DEVELOPMENT ENGINEER

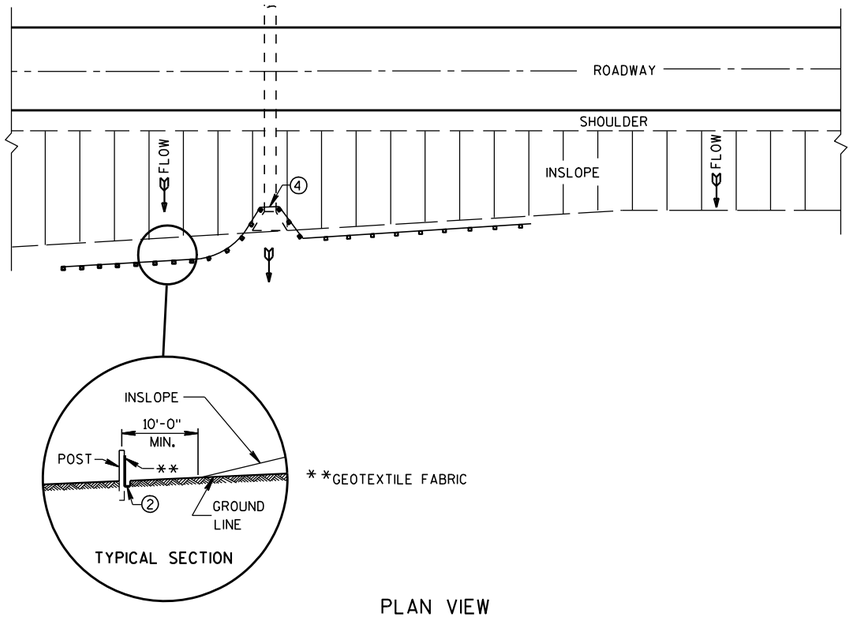
FHWA

6

S.D.D. 8 E 8-3

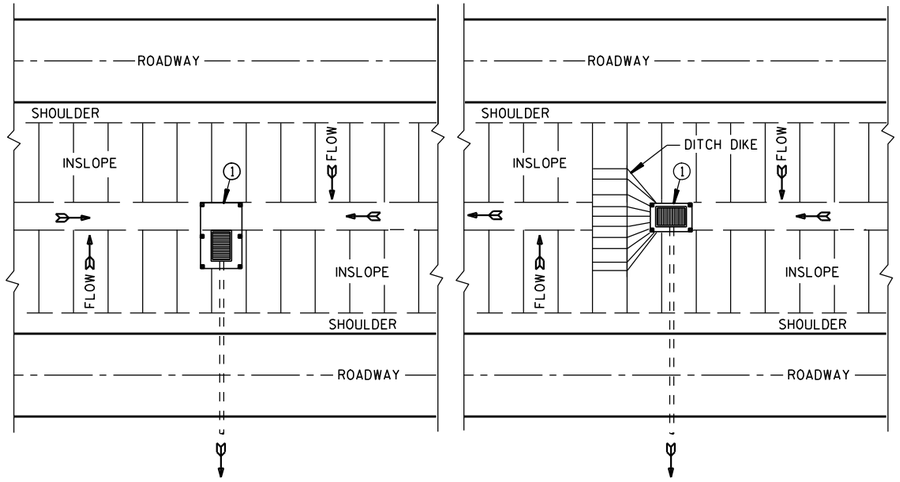
6

S.D.D. 8 E 8-3



PLAN VIEW

TYPICAL APPLICATION OF SILT FENCE



PLAN VIEW

SILT FENCE AT MEDIAN SURFACE DRAINS

GENERAL NOTES

DETAILS OF CONSTRUCTION NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND APPLICABLE SPECIAL PROVISIONS.

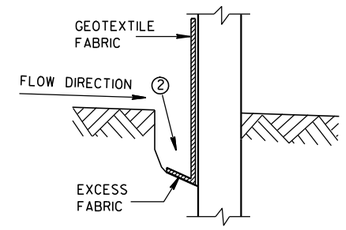
① HORIZONTAL BRACE REQUIRED WITH 2" X 4" WOODEN FRAME OR EQUIVALENT AT TOP OF POSTS.

② FOR MANUAL INSTALLATIONS THE TRENCH SHALL BE A MINIMUM OF 4" WIDE & 6" DEEP TO BURY AND ANCHOR THE GEOTEXTILE FABRIC. FOLD MATERIAL TO FIT TRENCH AND BACKFILL & COMPACT TRENCH WITH EXCAVATED SOIL.

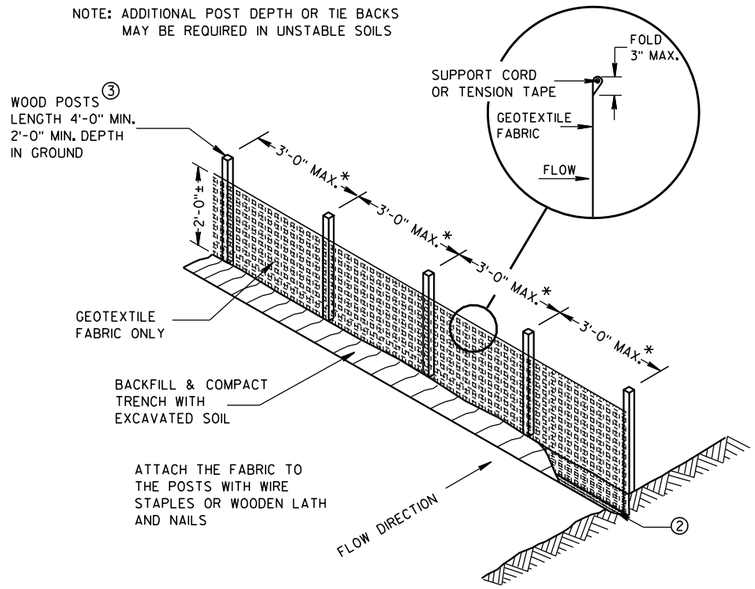
③ WOOD POSTS SHALL BE A MINIMUM SIZE OF 1⅛" X 1⅛" OF OAK OR HICKORY.

④ SILT FENCE TO EXTEND ACROSS THE TOP OF THE PIPE.

⑤ CONSTRUCT SILT FENCE FROM A CONTINUOUS ROLL IF POSSIBLE BY CUTTING LENGTHS TO AVOID JOINTS. IF A JOINT IS NECESSARY USE ONE OF THE FOLLOWING TWO METHODS; A) OVERLAP THE END POSTS AND TWIST, OR ROTATE, AT LEAST 180 DEGREES, B) HOOK THE END OF EACH SILT FENCE LENGTH.

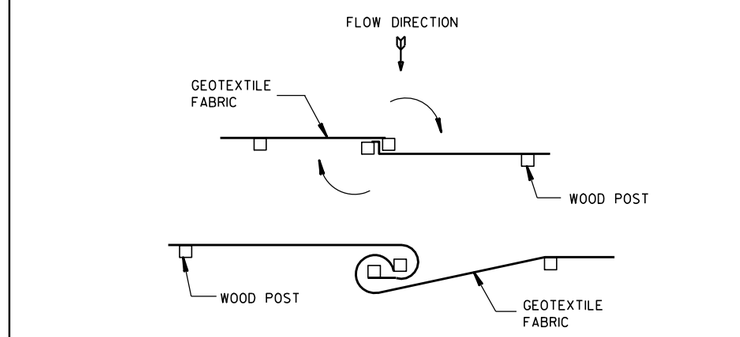


TRENCH DETAIL

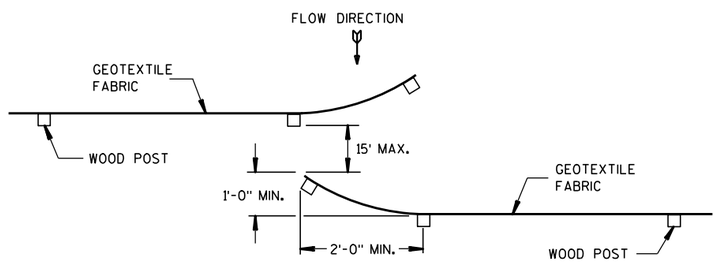


*NOTE: 8'-0" POST SPACING ALLOWED IF A WOVEN GEOTEXTILE FABRIC IS USED.

SILT FENCE

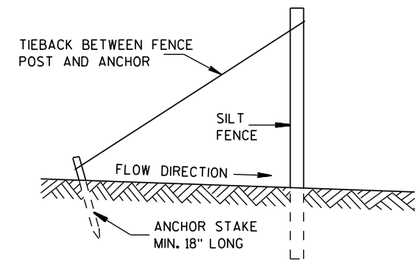


TWIST METHOD



HOOK METHOD

JOINING TWO LENGTHS OF SILT FENCE ⑤



SILT FENCE TIE BACK

(WHEN REQUIRED BY THE ENGINEER)

SILT FENCE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
4-29-05 DATE
/S/ Beth Cannestra
CHIEF ROADWAY DEVELOPMENT ENGINEER
FHWA

6

S.D.D. 8 E 9-6

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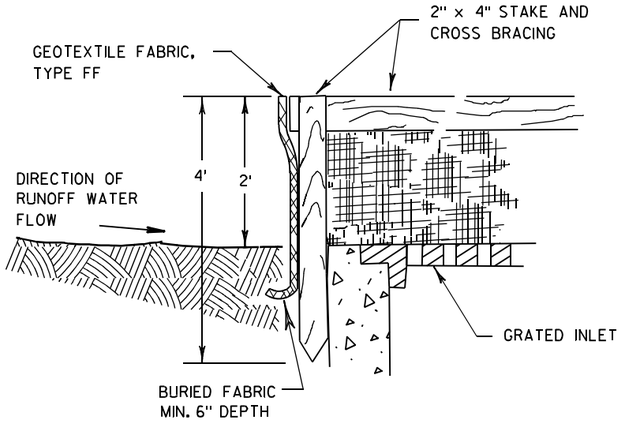
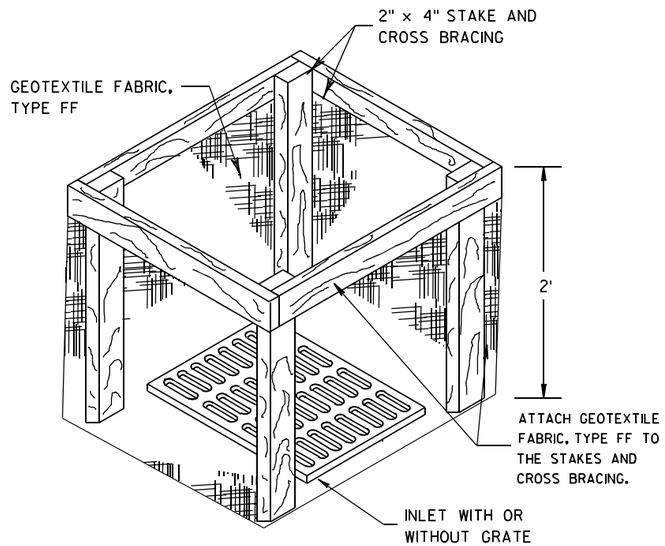
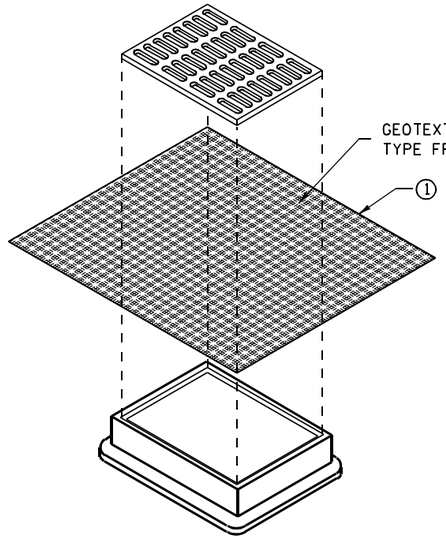
S.D.D. 8 E 9-6



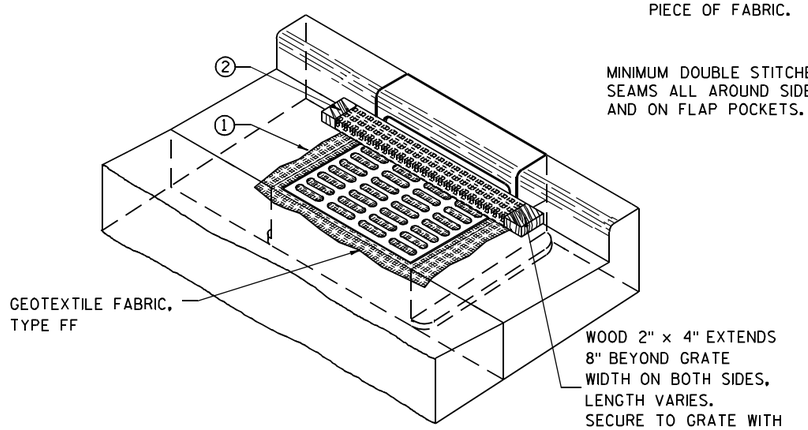


INLET PROTECTION, TYPE A

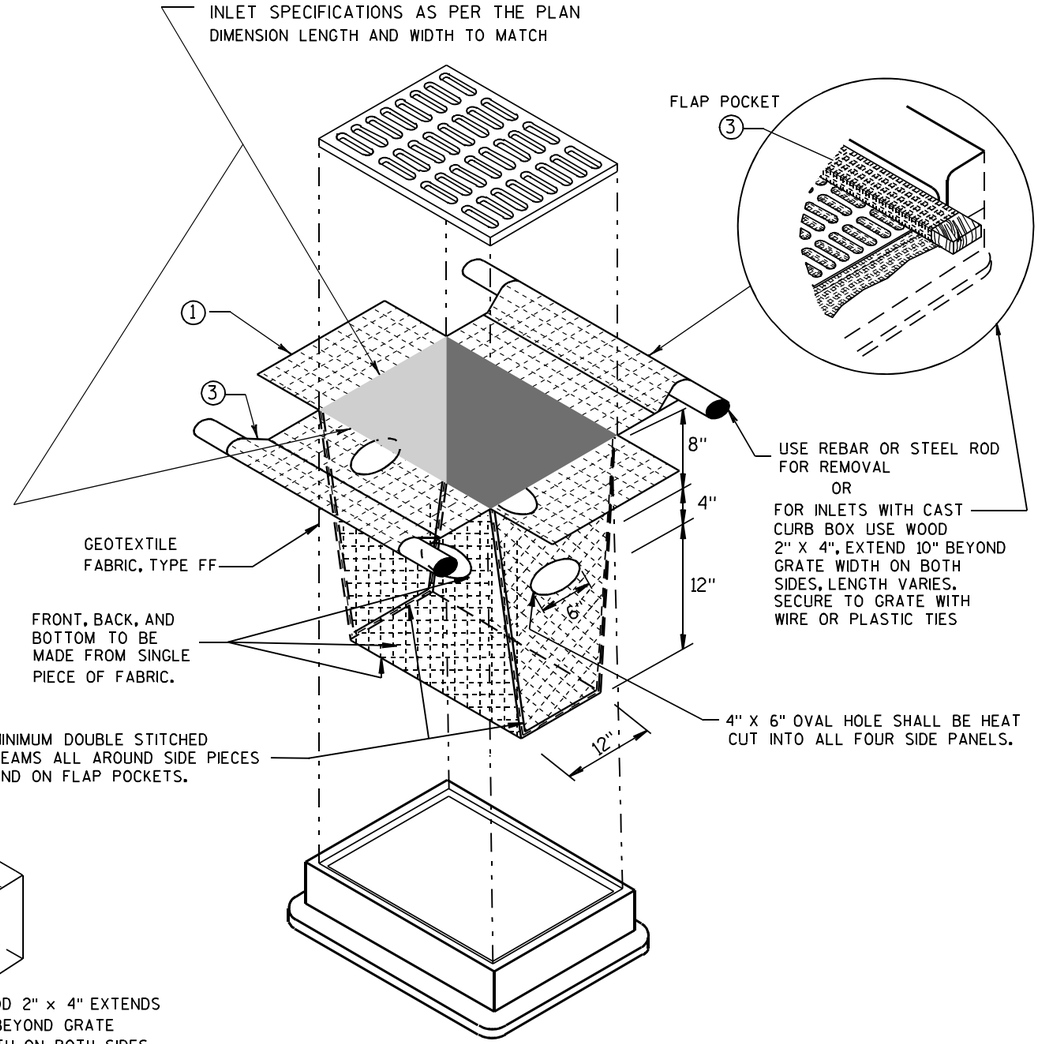


INLET PROTECTION, TYPE B
(WITHOUT CURB BOX)

(CAN BE INSTALLED IN ANY INLET WITHOUT A CURB BOX)



INLET PROTECTION, TYPE C (WITH CURB BOX)



INLET PROTECTION, TYPE D

(CAN BE INSTALLED IN ANY INLET TYPE WITH
OR WITHOUT A CURB BOX AS PER NOTE ②)

GENERAL NOTES

INLET PROTECTION DEVICES SHALL BE MAINTAINED OR REPLACED AT THE DIRECTION OF THE ENGINEER.

MANUFACTURED ALTERNATIVES APPROVED AND LISTED ON THE DEPARTMENT'S EROSION CONTROL PRODUCT ACCEPTABILITY LIST MAY BE SUBSTITUTED.

WHEN REMOVING OR MAINTAINING INLET PROTECTION, CARE SHALL BE TAKEN SO THAT THE SEDIMENT TRAPPED ON THE GEOTEXTILE FABRIC DOES NOT FALL INTO THE INLET. ANY MATERIAL FALLING INTO THE INLET SHALL BE REMOVED IMMEDIATELY.

① FINISHED SIZE, INCLUDING FLAP POCKETS WHERE REQUIRED, SHALL EXTEND A MINIMUM OF 10" AROUND THE PERIMETER TO FACILITATE MAINTENANCE OR REMOVAL.

② FOR INLET PROTECTION, TYPE C (WITH CURB BOX), AN ADDITIONAL 18" OF FABRIC IS WRAPPED AROUND THE WOOD AND SECURED WITH STAPLES. THE WOOD SHALL NOT BLOCK THE ENTIRE HEIGHT OF THE CURB BOX OPENING.

③ FLAP POCKETS SHALL BE LARGE ENOUGH TO ACCEPT WOOD 2X4.

INSTALLATION NOTES

TYPE B & C

TRIM EXCESS FABRIC IN THE FLOW LINE TO WITHIN 3" OF THE GRATE.

THE CONTRACTOR SHALL DEMONSTRATE A METHOD OF MAINTENANCE, USING A SEWN FLAP, HAND HOLDS OR OTHER METHOD TO PREVENT ACCUMULATED SEDIMENT FROM ENTERING THE INLET.

TYPE D

DO NOT INSTALL INLET PROTECTION TYPE D IN INLETS SHALLOWER THAN 30", MEASURED FROM THE BOTTOM OF THE INLET TO THE TOP OF THE GRATE.

TRIM EXCESS FABRIC IN THE FLOW LINE TO WITHIN 3" OF THE GRATE.

THE INSTALLED BAG SHALL HAVE A MINIMUM SIDE CLEARANCE, BETWEEN THE INLET WALLS AND THE BAG, MEASURED AT THE BOTTOM OF THE OVERFLOW HOLES, OF 3". WHERE NECESSARY THE CONTRACTOR SHALL CINCH THE BAG, USING PLASTIC ZIP TIES, TO ACHIEVE THE 3" CLEARANCE. THE TIES SHALL BE PLACED AT A MAXIMUM OF 4" FROM THE BOTTOM OF THE BAG.

INLET PROTECTION
TYPE A, B, C, AND D

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
10/16/02
DATE
/S/ Beth Cannestra
CHIEF ROADWAY DEVELOPMENT ENGINEER
FHWA

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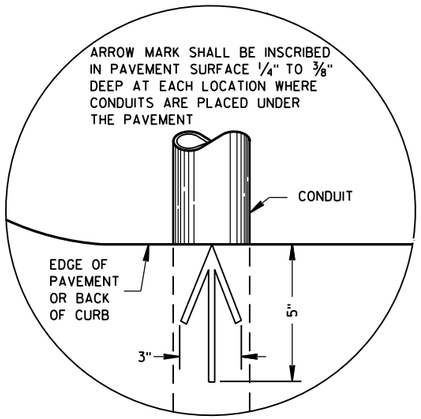
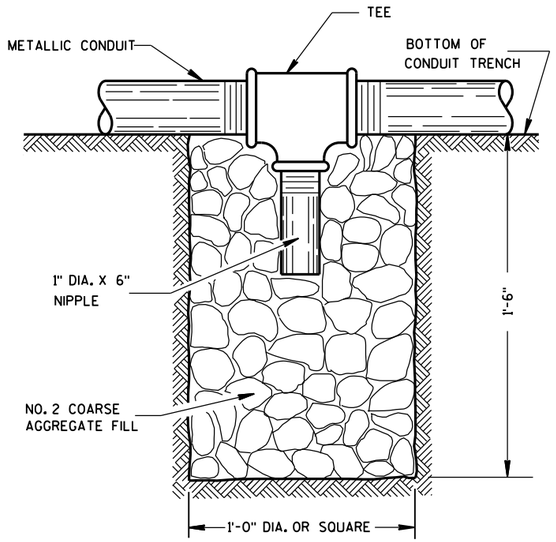
S.D.D. 8 E 10-2



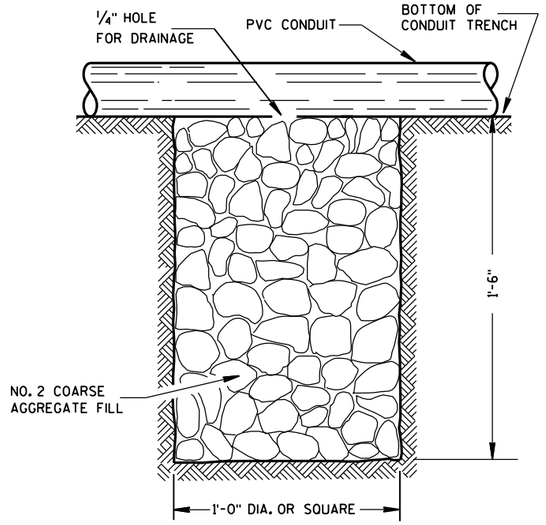
PLAN VIEW

ARROW MARK



NOTE: INSTALL AT LOCATIONS WHERE METALLIC CONDUITS CANNOT BE PITCHED TO DRAIN INTO A PULL BOX.

DRAIN SUMP FOR METALLIC CONDUIT



NOTE: INSTALL AT LOCATIONS WHERE PVC CONDUITS CANNOT BE PITCHED TO DRAIN INTO A PULL BOX.

DRAIN SUMP FOR PVC CONDUIT

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE CONTRACT.

METALLIC (STANDARD SPECIFICATION 652.2.2) OR NONMETALLIC (STANDARD SPECIFICATION 652.2.3) CONDUIT SHALL BE FURNISHED AND PLACED AS SHOWN.

DEPTH OF CONDUIT INSTALLED BELOW THE TRAVELED WAY SHALL BE 24 INCHES MINIMUM AND 36 INCHES MAXIMUM.

DEPTH OF CONDUIT INSTALLED THAT IS NOT BELOW THE TRAVELED WAY SHALL BE 18 INCHES MINIMUM AND 36 INCHES MAXIMUM.

ANY EXCEPTION TO THE MAXIMUM DEPTH SHALL BE ONLY WITH THE WRITTEN APPROVAL OF THE ENGINEER.

THE TRENCH SHALL NOT BE BACKFILLED PRIOR TO INSPECTION OF THE CONDUIT.

ALL METALLIC CONDUIT RACEWAY ENDS SHALL BE REAMED AND THREADED.

ALL METALLIC CONDUIT IN WHICH WIRE OR CABLE IS TO BE INSTALLED SHALL BE BUSHED WITH APPROVED THREADED BUSHINGS BEFORE INSTALLATION OF THE WIRE OR CABLE.

ALL METALLIC CONDUITS IN WHICH WIRE OR CABLE IS NOT TO BE INSTALLED SHALL BE CAPPED WITH THREADED PROTECTIVE CAPS, AS APPROVED BY THE ENGINEER.

ALL NONMETALLIC CONDUIT SHALL BE CAPPED OR PLUGGED IMMEDIATELY AFTER INSTALLATION AND SHALL REMAIN CAPPED OR PLUGGED UNTIL WIRE/CABLES ARE INSTALLED.

NONMETALLIC CONDUITS IN WHICH WIRE OR CABLE IS NOT BEING INSTALLED SHALL REMAIN CAPPED OR PLUGGED.

BENDING OF PVC ELECTRICAL CONDUIT SHALL BE ACCOMPLISHED BY USING A BLANKET OR EMERSION TYPE TANK DESIGNED FOR THE PURPOSE OF BENDING PVC ELECTRICAL CONDUIT.

ALL CUT ENDS SHALL BE TRIMMED INSIDE AND OUTSIDE TO REMOVE ALL ROUGH EDGES ON NONMETALLIC CONDUIT. (SEE NEC 347.5)

WHEN REQUIRED TO CONNECT NONMETALLIC CONDUIT TO METALLIC CONDUIT, ONLY U.L. LISTED ADAPTER FITTINGS SHALL BE USED.

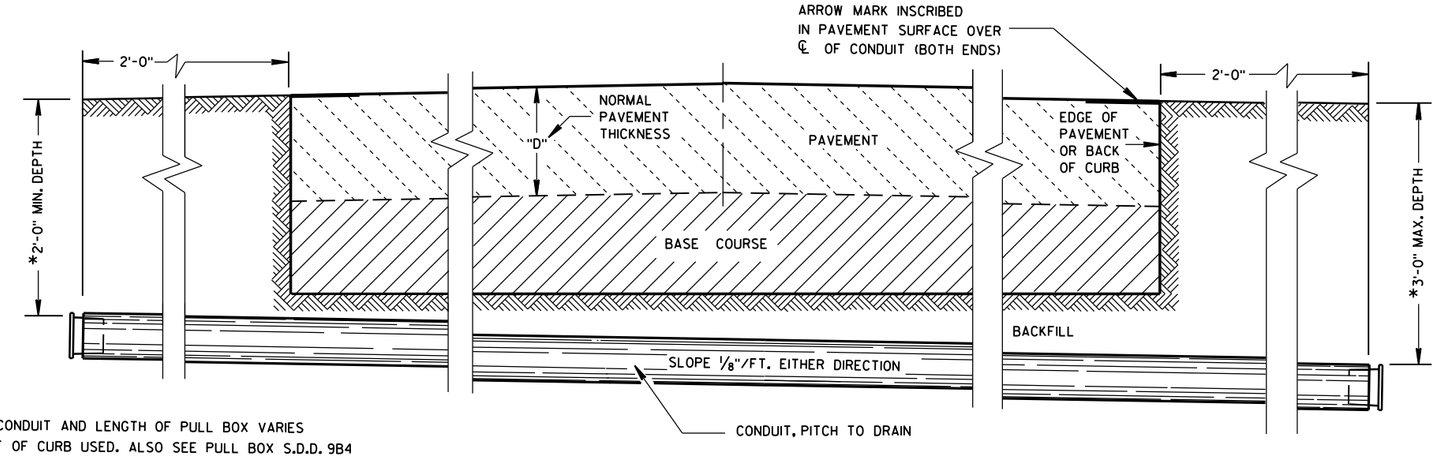
PRIOR TO CONDUIT ACCEPTANCE, CONDUIT CAPS OR PLUGS SHALL BE REMOVED, AND THE CAPS, PLUGS AND CONDUIT ENDS SHALL BE THOROUGHLY CLEANED AND THEN THE CAPS OR PLUGS REINSTALLED TO ENSURE THAT THE CAPS OR PLUGS CAN BE EASILY REMOVED IN THE FUTURE.

ALL CONDUIT BEING FURNISHED AND INSTALLED SHALL HAVE THE U.L. LABEL FIRMLY ATTACHED.

CONDUIT RUNS SHALL BE THE SAME SIZE OF CONDUIT FROM ONE END TO THE OTHER (FROM PULL BOX TO PULL BOX-OR-JUNCTION BOX TO JUNCTION BOX-OR-BASE TO BASE, ETC.).

TRACER WIRE SHALL BE INSTALLED AS STATED IN THE STANDARD SPECIFICATION, ITEM 652.3.1.1.

ALL CONDUIT RUNS SHALL BE STRAIGHT (WITHOUT BENDS) FROM PULL BOX TO PULL BOX, PULL BOX TO BASE AND BASE TO BASE AS SHOWN ON THE PLANS.



*DEPTH OF CONDUIT AND LENGTH OF PULL BOX VARIES WITH HEIGHT OF CURB USED. ALSO SEE PULL BOX S.D.D. 9B4

SIDE ELEVATION

DETAIL FOR CONDUIT UNDER PAVED HIGHWAYS

CONDUIT

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
June, 2015 — DATE
/S/ Ahmet Demirbilek — STATE ELECTRICAL
FHWA

6

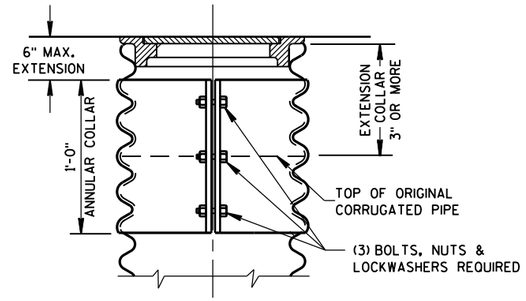
S.D.D. 9 B 2-9

TABLE OF NOMINAL DIMENSIONS AND WEIGHTS

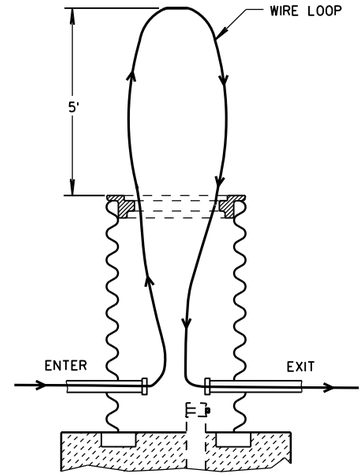
DIMENSION IN INCHES		CORRUGATED STEEL PIPE								
PIPE DIAMETER (INSIDE)	A	12	12	12	18	18	18	24	24	24
PIPE LENGTH **	B	24	30	36	24	30	36	36	42	48
WALL THICKNESS	C	0.064	0.064	0.064	0.064	0.064	0.064	0.064	0.064	0.064
COVER	D	10 1/4	10 1/4	10 1/4	16 1/4	16 1/4	16 1/4	22 1/4	22 1/4	22 1/4
FRAME	E	14 1/2	14 1/2	14 1/2	20 1/2	20 1/2	20 1/2	26 1/2	26 1/2	26 1/2
FRAME	F	8 1/2	8 1/2	8 1/2	14 1/2	14 1/2	14 1/2	20 1/2	20 1/2	20 1/2
FRAME	G	11 1/2	11 1/2	11 1/2	17 1/2	17 1/2	17 1/2	23 1/2	23 1/2	23 1/2
WEIGHT IN POUNDS *										
FRAME AND COVER		60	60	60	110	110	110	155	155	155

* THE ACTUAL WEIGHT OF THE MANHOLE FRAME AND COVER MAY VARY WITHIN 5 PERCENT PLUS OR MINUS OF THE WEIGHTS SHOWN.

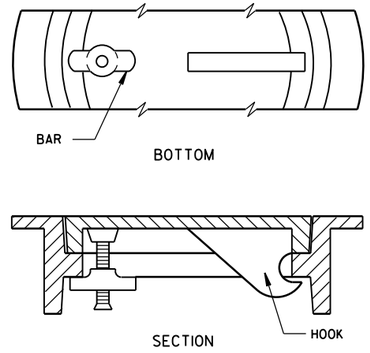
** NORMALLY USED LENGTHS. THE PROJECT ENGINEER SHALL DETERMINE IF PIPE LENGTHS, OTHER THAN THOSE SPECIFIED, SHALL BE USED, TO A MAXIMUM OF 48" (CONTINUOUS LENGTH, NON-SPLICED). THE ADDITIONAL LENGTH SHALL BE INCIDENTAL TO THE PULL BOX BID PRICE.



CORRUGATED PIPE EXTENDER

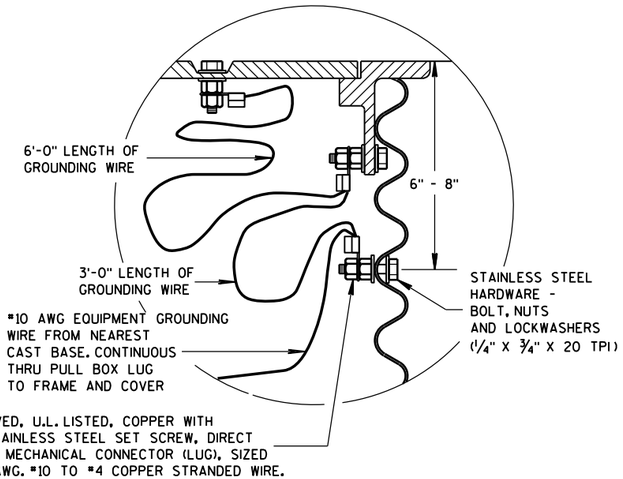


MEASUREMENT DETAIL FOR WIRE/CABLE IN THE PULL BOX

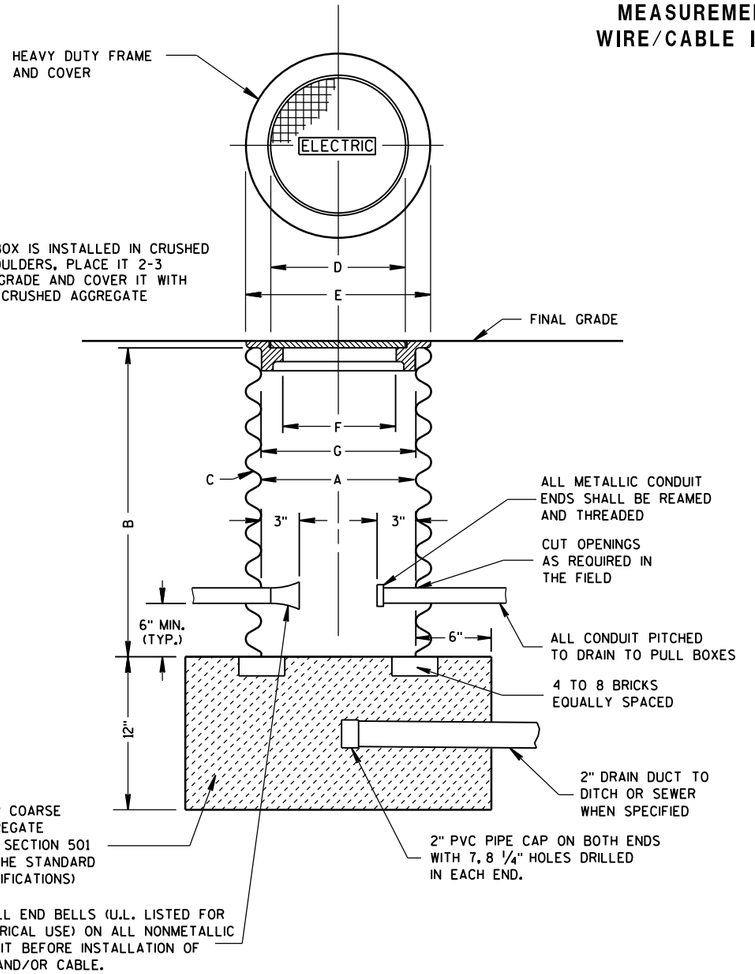


ALTERNATE COVER (LOCKING)

TIGHTENING BAR TYPE



EQUIPMENT GROUNDING LUG AND LOCATION IN STEEL PULL BOXES



PULL BOX

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE CONTRACT.

ALL FRAMES AND COVERS SHALL BE HEAVY DUTY TYPE, SUITABLE FOR VEHICULAR TRAFFIC LOADS.

PULL BOXES LOCATED IN THE ROADWAYS SHALL HAVE LOCKING COVERS.

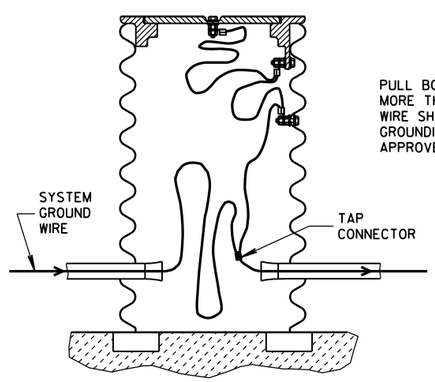
ENTRANCE HOLES INTO PULL BOXES SHALL BE CUT WITH A CIRCULAR HOLE SAW OR HYDRAULIC CONDUIT PUNCH. HOLE SIZE SHALL BE THE OUTSIDE DIAMETER OF THE CONDUIT THAT IS TO FIT IN THE OPENING PLUS NO MORE THAN 1/4".

THE CONTRACTOR SHALL NOT INSTALL WIRE IN ANY PULL BOX UNTIL ITS INSTALLATION HAS BEEN INSPECTED AND ACCEPTED BY THE ENGINEER.

GROUNDING LUGS (MECHANICAL CONNECTORS) SHALL BE U.L. LISTED AND APPROVED FOR USE WITH COPPER WIRE.

ALL METALLIC CONDUIT IN WHICH WIRE AND/OR CABLE IS TO BE INSTALLED, SHALL BE BUSHED BEFORE INSTALLATION OF THE WIRE AND/OR CABLE.

WHEN PULL BOXES ARE INSTALLED FOR FUTURE USE, DO NOT INSTALL THE EQUIPMENT GROUNDING LUG. THE EQUIPMENT GROUNDING LUG, THE EQUIPMENT GROUNDING ELECTRODE AND THE EQUIPMENT GROUNDING CONDUCTOR SHALL BE REQUIRED AND INSTALLED UNDER A FUTURE WIRING CONTRACT.



PULL BOX TO NEAREST BASE DISTANCE MORE THAN 20 FEET. PULL BOX GROUND WIRE SHALL CONNECT AT SYSTEM GROUNDING WIRE. USE DEPARTMENT APPROVED TAP CONNECTOR.

EQUIPMENT GROUNDING LUG AND LOCATION IN STEEL PULL BOXES

PULL BOX

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
Sept. 2014 — DATE
/S/ Ahmet Demirbilek — STATE ELECTRICAL
FHWA

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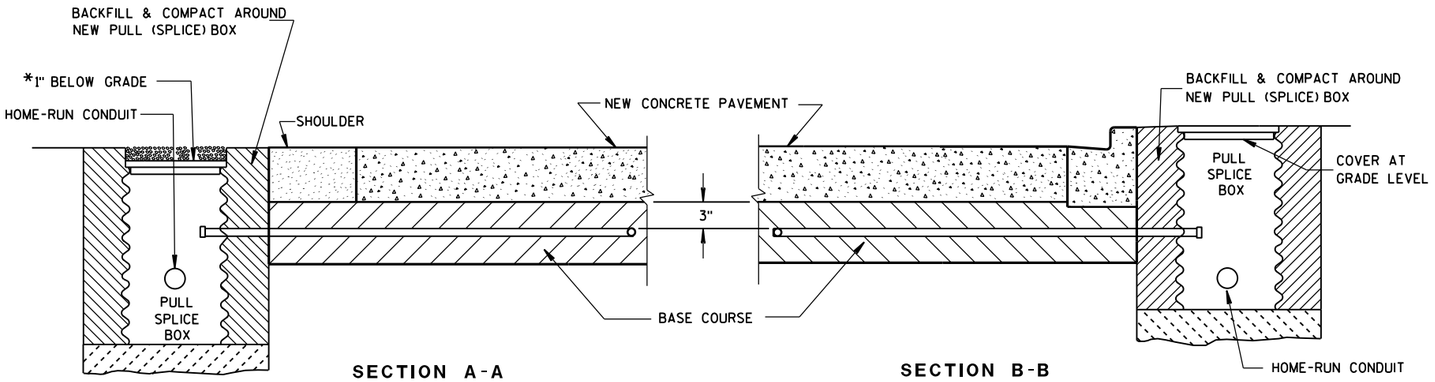
S.D.D. 9 B 4-11



SECTION A-A
NO CURB & GUTTER

SECTION B-B
CURB & GUTTER

*RECESS PULL (SPLICE) BOX SO THAT THE COVER IS 3" BELOW GRADE IN SHOULDER AREAS OF CRUSHED AGGREGATE. BACKFILL OVER COVER WITH THE CRUSHED AGGREGATE TO BRING THE AREA TO GRADE LEVEL.

LOOP DETECTOR INSTALLATION DETAIL

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE CONTRACT.

LOOP SIZE, CONFIGURATION LOCATION, NUMBER OF TURNS OF WIRE AND ASSOCIATED SIGNAL PHASE SHALL BE AS SHOWN ON THE PLANS.

PITCH LEAD OUT CONDUIT TO DRAIN TO ROADSIDE PULL (SPLICE) BOX.

SPLICES SHALL BE INSTALLED BY USING CAST IN PLACE SPLICE KITS LISTED ON THE DEPARTMENTS APPROVED PRODUCTS LIST OR AN ENGINEER APPROVED EQUAL. NON-INSULATED BUTT SPLICES TO FIT #12 AWG STRANDED WIRE SHALL BE USED. SPLICES SHALL BE SOLDERED AND INSULATED FROM EACH OTHER AS PER INSTRUCTIONS INCLUDED IN THE SPLICE KIT.

MEASURE GROUND RESISTANCE USING A MEGGER. REPLACE LOOP WIRE NOT ATTAINING A READING OF INFINITY TO GROUND.

AFTER SPLICING THE LOOP WIRE TO THE LOOP LEAD-IN CABLE, THE CONTRACTOR SHALL MEASURE INDUCTANCE, GROUND RESISTANCE AND WIRE RESISTANCE AT THE CABINET END OF THE LEAD-IN CABLE AND FURNISH A COPY OF THE READINGS TO THE PROJECT ENGINEER FOR EVALUATION.

LOOP DETECTOR LEADS SHALL BE IDENTIFIED WITH THEIR ASSOCIATED LOOP BY USE OF WATERPROOF TAGS AT BOTH ENDS OF THE CABLE. A LISTING OF THE CABLE IDENTIFICATION PER INDIVIDUAL LOOP LEAD-IN SHALL BE PLACED IN THE CABINET.

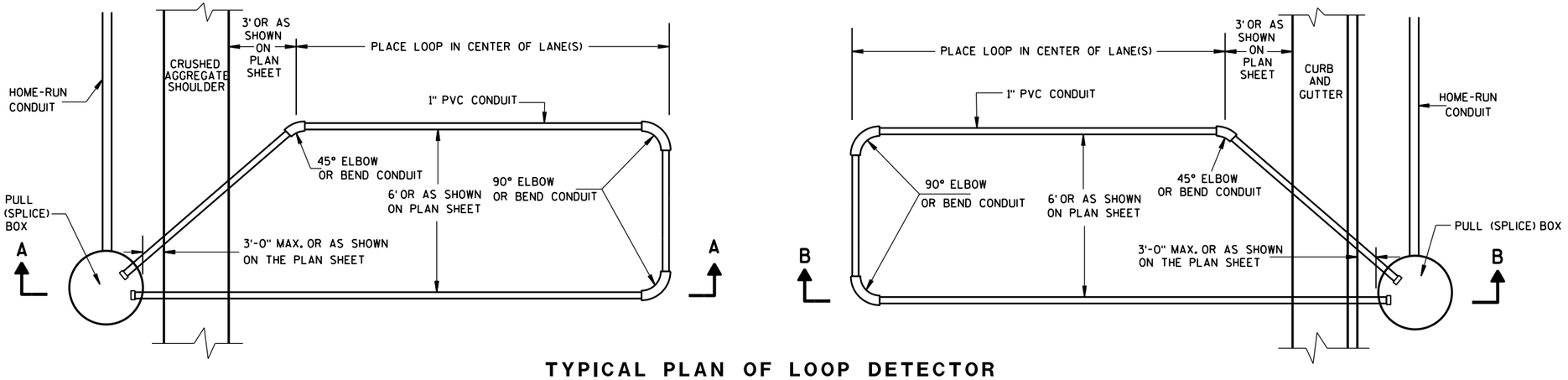
THE #12 AWG. LOOP WIRE IN THE PULL (SPLICE) BOX SHALL BE HAND TWISTED AT LEAST 3 TWISTS PER FOOT BEFORE BEING SPLICED TO THE LOOP LEAD-IN CABLE.

SPLICES OF LOOP WIRE TO LEAD-IN CABLE SHALL BE MADE ONLY IN PULL (SPLICE) BOXES AT THE SIDE OF THE ROAD.

THE #12 AWG LOOP WIRE SHALL BE INSTALLED FROM THE ROADSIDE PULL (SPLICE) BOX THROUGH THE LOOP CONDUIT, BACK TO THE ROADSIDE PULL (SPLICE) BOX, AND BE INSTALLED IN ONE, NON-SPLICE CONTINUOUS LENGTH.

PROTECTION OF THE CONDUIT IN THE BASE COURSE, SHALL BE REQUIRED AFTER INSTALLATION AND BEFORE NEW PAVEMENT IS INSTALLED.

SHOULD INSTALLATION REPAIR BE REQUIRED, IT SHALL BE DONE UNDER THE DIRECTION OF THE PROJECT ENGINEER.



TYPICAL PLAN OF LOOP DETECTOR WITH 18" OR 24" PULL (SPLICE) BOX

LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 1)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
Sept. 2014 — DATE
/S/ Ahmet Demirbilek — STATE ELECTRICAL
FHWA

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S.D.D. 9 F 15-4a

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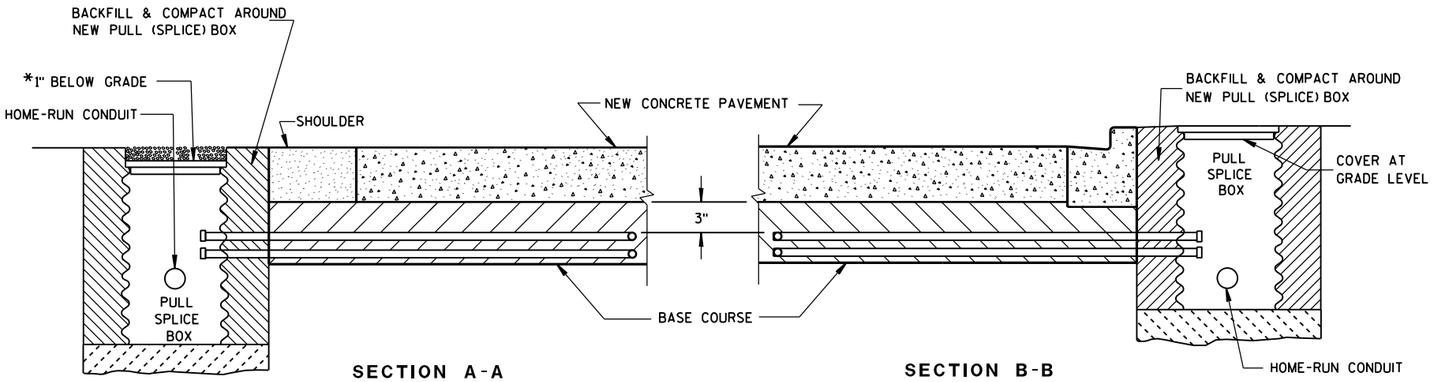
S.D.D. 9 F 15-4a



SECTION A-A
NO CURB & GUTTER

SECTION B-B
CURB & GUTTER

*RECESS PULL (SPLICE) BOX SO THAT THE COVER IS 3" BELOW GRADE IN SHOULDER AREAS OF CRUSHED AGGREGATE. BACKFILL OVER COVER WITH THE CRUSHED AGGREGATE TO BRING THE AREA TO GRADE LEVEL.

LOOP DETECTOR INSTALLATION DETAIL

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE CONTRACT.

LOOP SIZE, CONFIGURATION LOCATION, NUMBER OF TURNS OF WIRE AND ASSOCIATED SIGNAL PHASE SHALL BE AS SHOWN ON THE PLANS.

PITCH LEAD OUT CONDUIT TO DRAIN TO ROADSIDE PULL (SPLICE) BOX.

SPLICES SHALL BE INSTALLED BY USING CAST IN PLACE SPLICE KITS LISTED ON THE DEPARTMENTS APPROVED PRODUCTS LIST OR AN ENGINEER APPROVED EQUAL. NON-INSULATED BUTT SPLICES TO FIT #12 AWG STRANDED WIRE SHALL BE USED. SPLICES SHALL BE SOLDERED AND INSULATED FROM EACH OTHER AS PER INSTRUCTIONS INCLUDED IN THE SPLICE KIT.

MEASURE GROUND RESISTANCE USING A MEGGER. REPLACE LOOP WIRE NOT ATTAINING A READING OF INFINITY TO GROUND.

AFTER SPLICING THE LOOP WIRE TO THE LOOP LEAD-IN CABLE, THE CONTRACTOR SHALL MEASURE INDUCTANCE, GROUND RESISTANCE AND WIRE RESISTANCE AT THE CABINET END OF THE LEAD-IN CABLE AND FURNISH A COPY OF THE READINGS TO THE PROJECT ENGINEER FOR EVALUATION.

LOOP DETECTOR LEADS SHALL BE IDENTIFIED WITH THEIR ASSOCIATED LOOP BY USE OF WATERPROOF TAGS AT BOTH ENDS OF THE CABLE. A LISTING OF THE CABLE IDENTIFICATION PER INDIVIDUAL LOOP LEAD-IN SHALL BE PLACED IN THE CABINET.

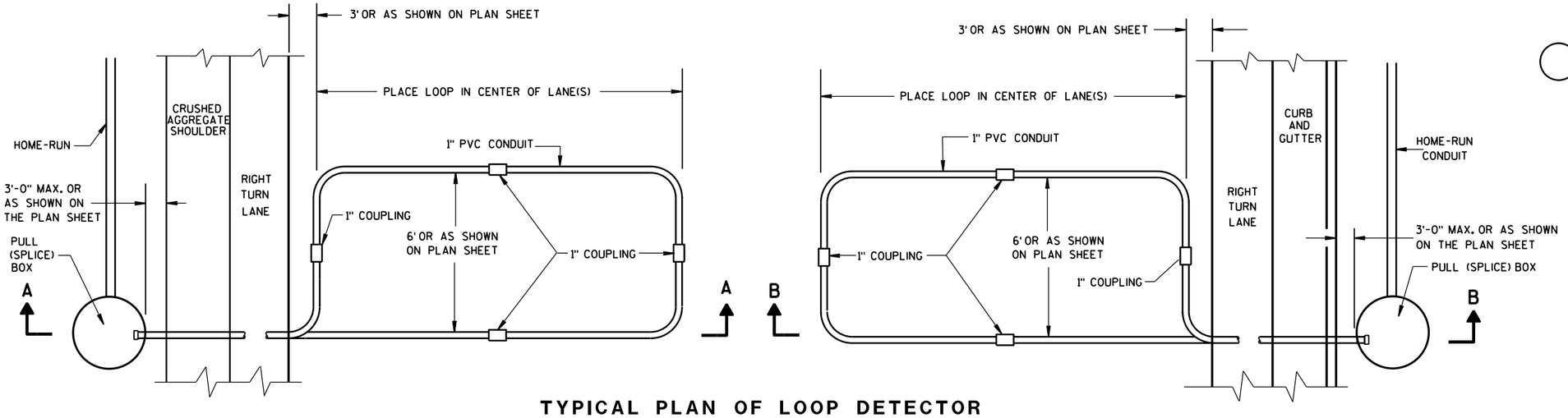
THE #12 AWG. LOOP WIRE IN THE PULL (SPLICE) BOX SHALL BE HAND TWISTED AT LEAST 3 TWISTS PER FOOT BEFORE BEING SPLICED TO THE LOOP LEAD-IN CABLE.

SPLICES OF LOOP WIRE TO LEAD-IN CABLE SHALL BE MADE ONLY IN PULL (SPLICE) BOXES AT THE SIDE OF THE ROAD.

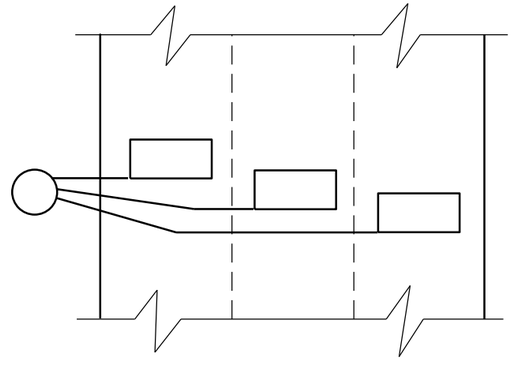
THE #12 AWG LOOP WIRE SHALL BE INSTALLED FROM THE ROADSIDE PULL (SPLICE) BOX, THROUGH THE LOOP CONDUIT, BACK TO THE ROADSIDE PULL (SPLICE) BOX, AND BE INSTALLED IN ONE, NON-SPLICED CONTINUOUS LENGTH.

PROTECTION OF THE CONDUITS IN THE BASE COURSE SHALL BE REQUIRED AFTER INSTALLATION AND BEFORE NEW PAVEMENT IS INSTALLED.

SHOULD INSTALLATION REPAIR BE REQUIRED, IT SHALL BE DONE UNDER THE DIRECTION OF THE PROJECT ENGINEER.



TYPICAL PLAN OF LOOP DETECTOR WITH 24" PULL (SPLICE) BOX



MULTI-LANE INSTALLATION

LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

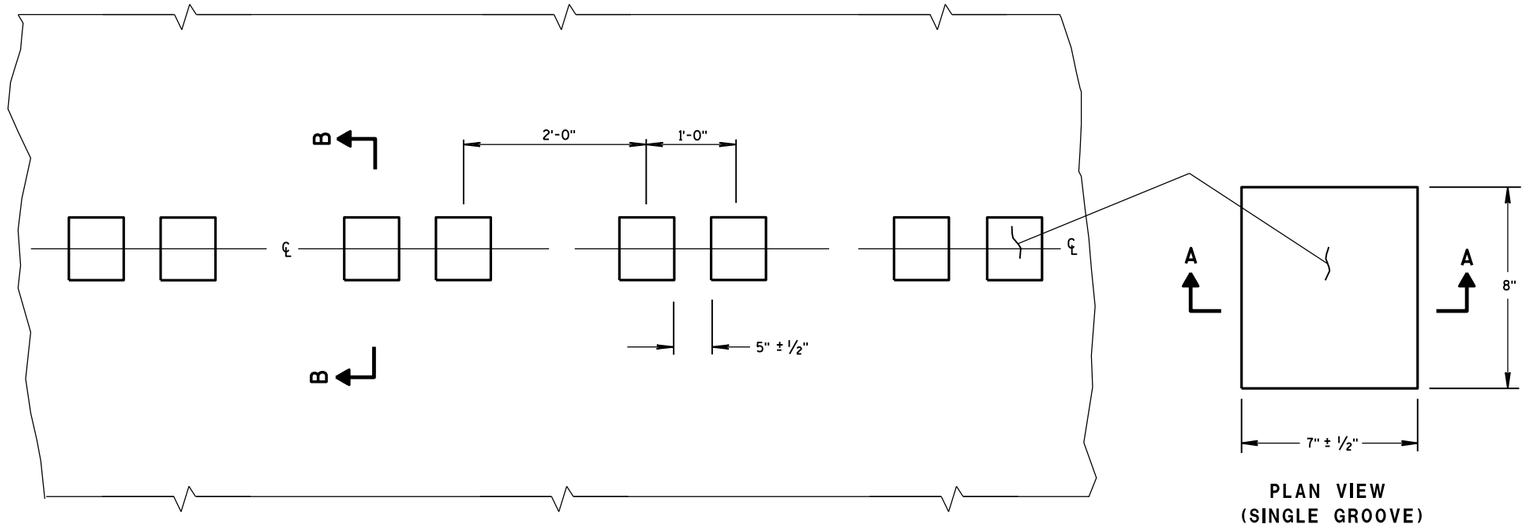
APPROVED
Sept. 2014
DATE
/S/ Ahmet Demirbilek
STATE ELECTRICAL
FHWA

6

S.D.D. 9 F 15-4b

6

S.D.D. 9 F 15-4b



PLAN VIEW
CENTER LINE WITH GROOVES

PLAN VIEW
(SINGLE GROOVE)

PLACEMENT DETAIL FOR MILLED RUMBLE STRIP

GENERAL NOTES

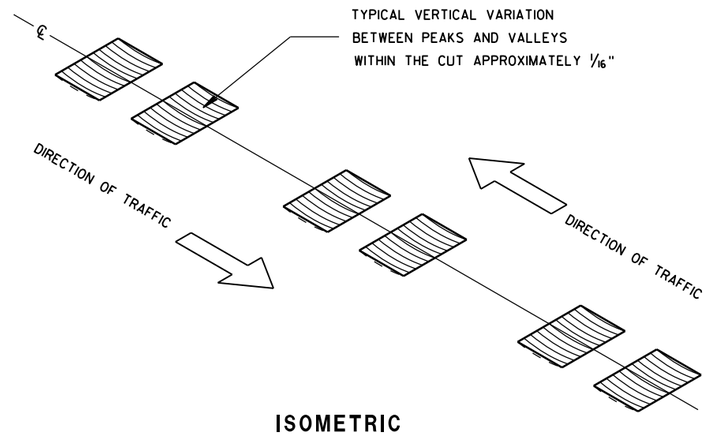
DETAILS OF CONSTRUCTION SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND APPLICABLE SPECIAL PROVISIONS.

DO NOT MILL CENTER LINE GROOVES THROUGH ANY INTERSECTION, MARKED CROSSWALK, NON-MOTORIZED PATH CROSSING, OR SNOWMOBILE CROSSING.

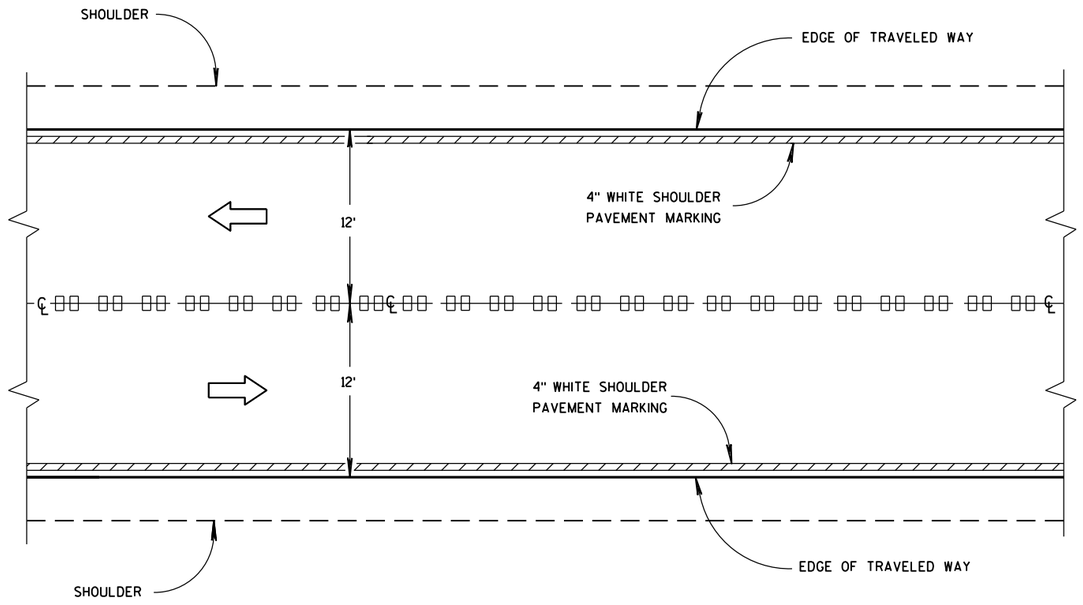
INSTALL PAVEMENT MARKING AFTER THE GROOVES ARE INSTALLED.

SEE SIGNING PLAN FOR SIGN REQUIREMENTS THAT MAY BE NEEDED.

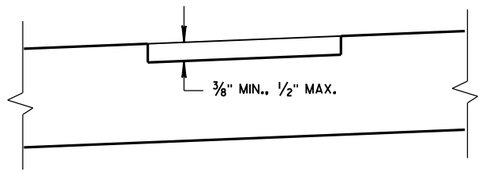
(1) CENTERLINE GROOVES MAY BE OMITTED IN AREAS WITH HIGH CONCENTRATIONS OF DRIVEWAYS, WHEN DIRECTED BY THE ENGINEER.



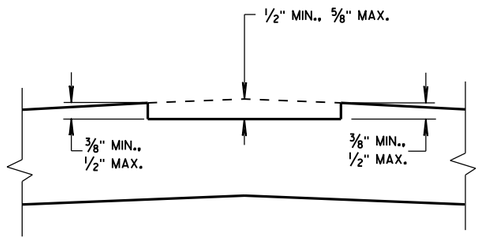
ISOMETRIC



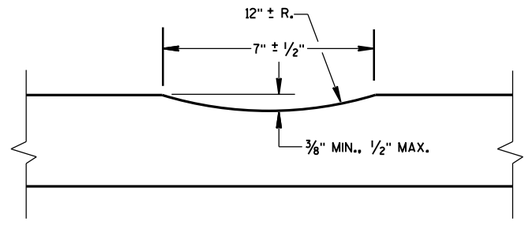
CENTER LINE GROOVES ON TWO-WAY ROADWAYS



SECTION B-B
SUPERELEVATED ROADWAY



SECTION B-B
CROWNED ROADWAY



SECTION A-A

6

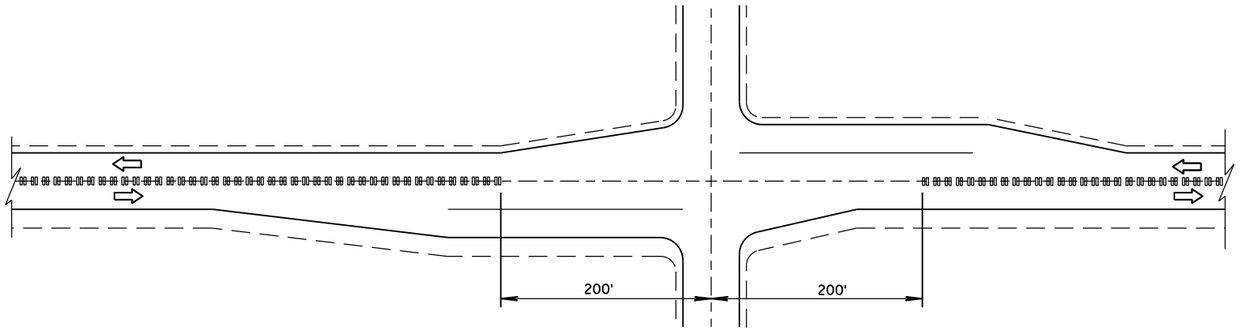
S.D.D. 13 A 11-2a

2-LANE RURAL
CENTER LINE RUMBLE STRIP,
MILLING

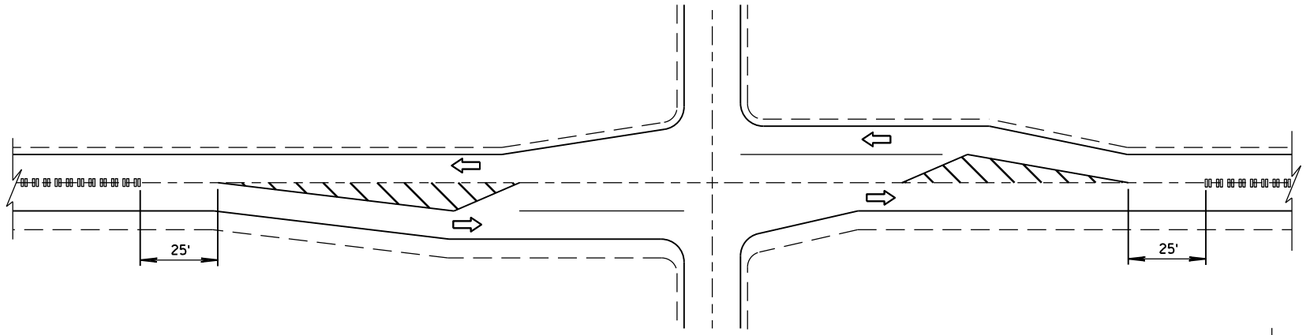
STATE OF WISCONSIN
DEPARTMENT OF TRANSPOI

6

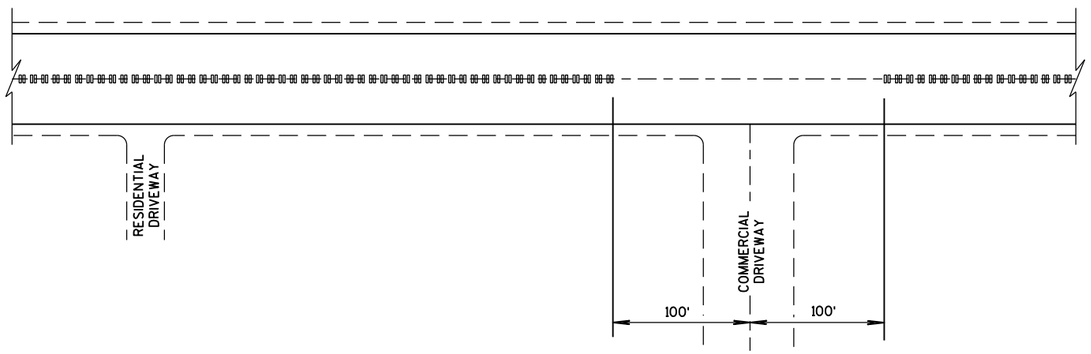
S.D.D. 13 A 11-2a



CENTER LINE GROOVES AT INTERSECTIONS

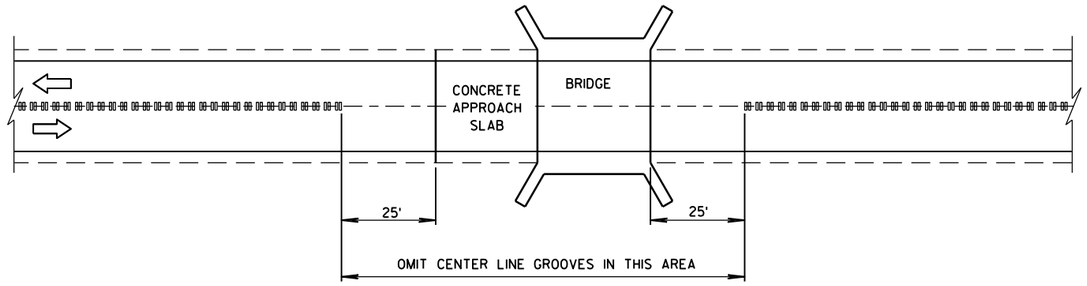


CENTER LINE GROOVES AT INTERSECTIONS
(WITH LEFT TURN LANES)

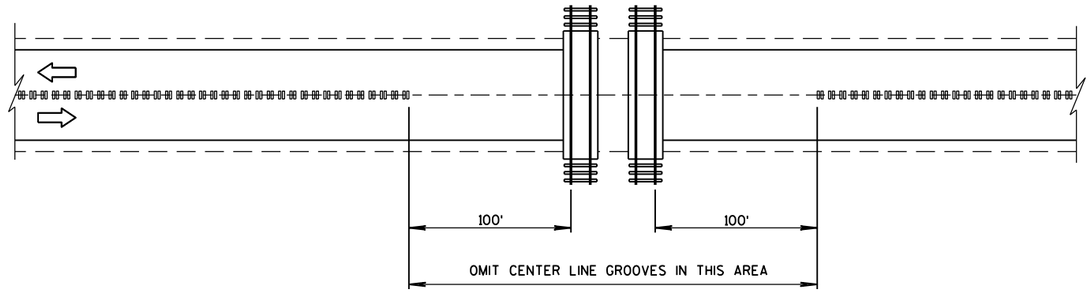


CENTER LINE GROOVES AT DRIVEWAYS (1)

(1) CENTERLINE GROOVES MAY BE OMITTED IN AREAS WITH HIGH CONCENTRATIONS OF DRIVEWAYS, WHEN DIRECTED BY THE ENGINEER.



CENTER LINE GROOVES AT BRIDGES



CENTER LINE GROOVES AT RAILROADS

6

S.D.D. 13 A 11-2b

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S.D.D. 13 A 11-2b

2-LANE RURAL
CENTER LINE RUMBLE STRIP, MILLING

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

5/15/2013
DATE

/S/ Jerry H. Zoda
ROADWAY STANDARDS DEVELOPMENT ENGINEER

NT

FHWA

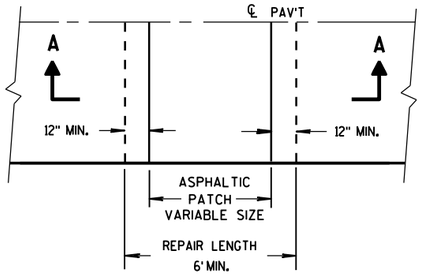
GENERAL NOTES

SAW CUT, DRILL, AND LIFT OUT EXISTING CONCRETE PAVEMENT WITHIN THE BOUNDARIES OF CONCRETE REPAIR AREAS. THE CONTRACTOR MAY MAKE ADDITIONAL SAW CUTS INSIDE THE REPAIR LIMITS TO REDUCE WEIGHT AND SIZE OF CONCRETE PIECES.

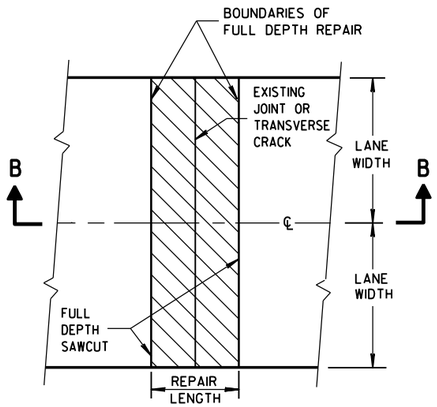
PROVIDE 6-FOOT MINIMUM DISTANCE FROM BOUNDARIES OF CONCRETE REPAIR AREAS TO ADJACENT TRANSVERSE JOINT OR CRACK.

THE LENGTH OF THE REPAIRS MAY VARY FROM THE DIMENSIONS SHOWN IF THE EXISTING CONCRETE PAVEMENT IS NONDOWELED AND THE PAVEMENT IS TO BE OVERLAID AFTER REPAIRING.

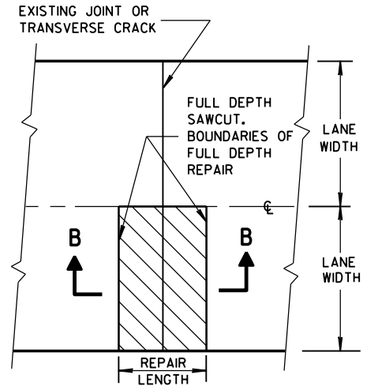
(1) DOWEL BARS MIGHT NOT EXIST.



PLAN VIEW

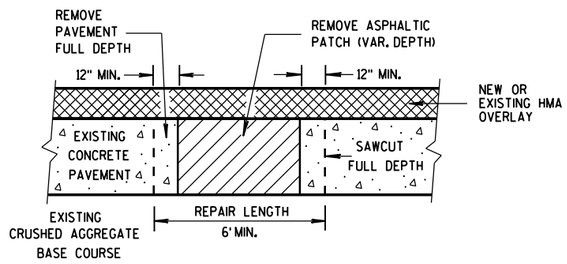


PLAN VIEW
(DOUBLE LANE REPAIR)



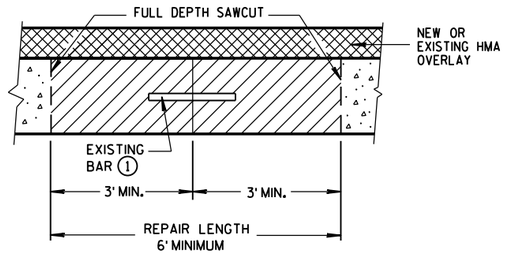
PLAN VIEW
(SINGLE LANE REPAIR)

FULL DEPTH CONCRETE PAVEMENT REMOVAL



SECTION A-A

HMA PATCH REMOVAL



SECTION B-B

CONCRETE REMOVAL

BASE PATCHING CONCRETE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPOR

6

S.D.D. 13 C 14-6a

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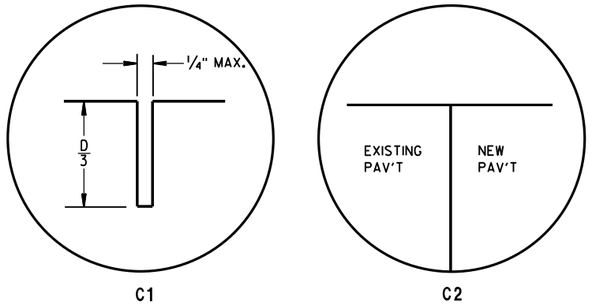
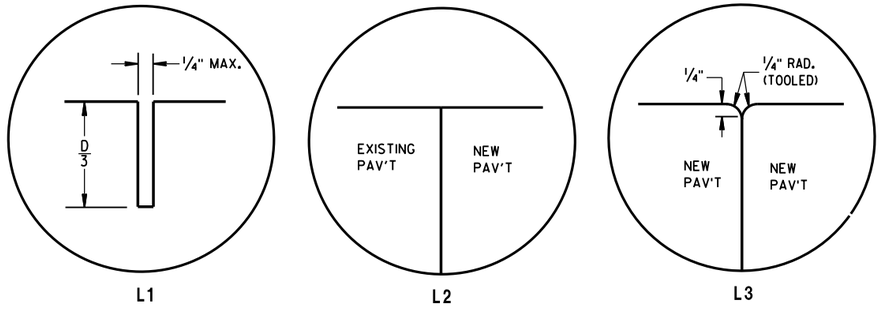
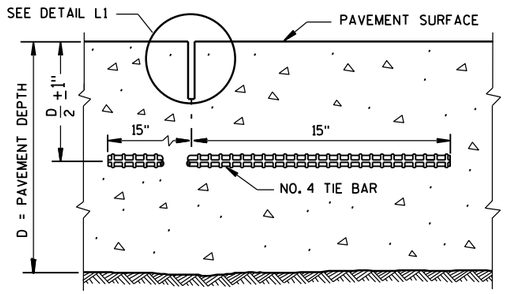
S.D.D. 13 C 14-6a



TRANSVERSE JOINTS

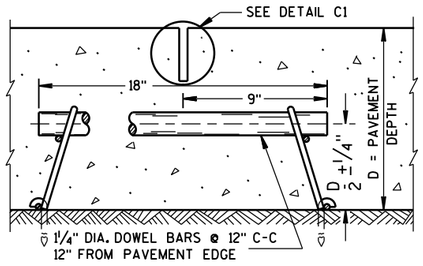


LONGITUDINAL JOINTS



SECTION C-C

SAWED LONGITUDINAL JOINT



SECTION F-F

CONTRACTION JOINT

GENERAL NOTES

INSTALL DOWEL BARS PARALLEL TO THE PAVEMENT CENTERLINE AND PAVEMENT SURFACE.

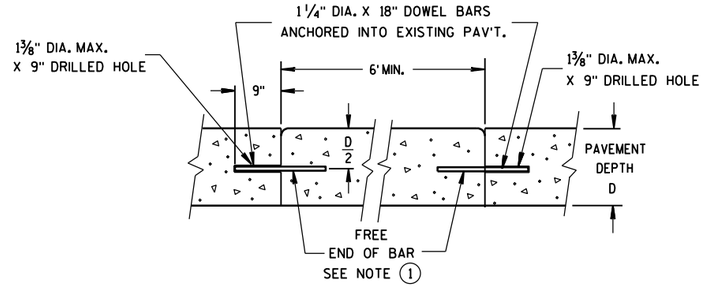
CONCRETE BASE PATCHES OF EXISTING NONDOWELED CONCRETE PAVEMENTS DO NOT NEED TO BE DOWELED.

DO NOT SEAL OR FILL JOINTS.

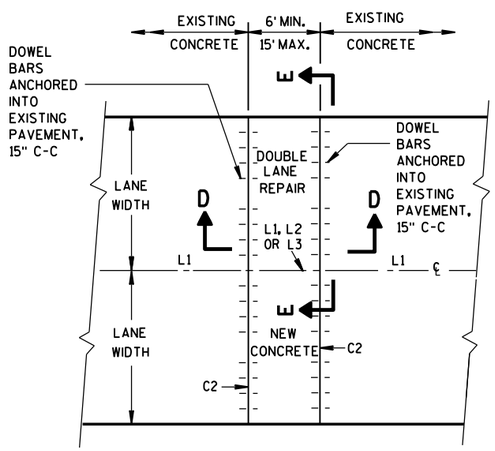
ANCHOR DOWEL BARS AND TIE BARS INTO DRILLED HOLES WITH AN EPOXY.

PROVIDE A MINIMUM DISTANCE OF 15 INCHES FROM AN EXISTING TRANSVERSE JOINT OR THE EDGE OF REPLACEMENT TO THE CENTER OF THE TIE BAR NEAREST THAT JOINT OR EDGE.

(1) APPLY A THIN UNIFORM COATING OF SURFACE TREATMENT TO THE FREE END OF DOWEL BARS TO PREVENT BONDING.

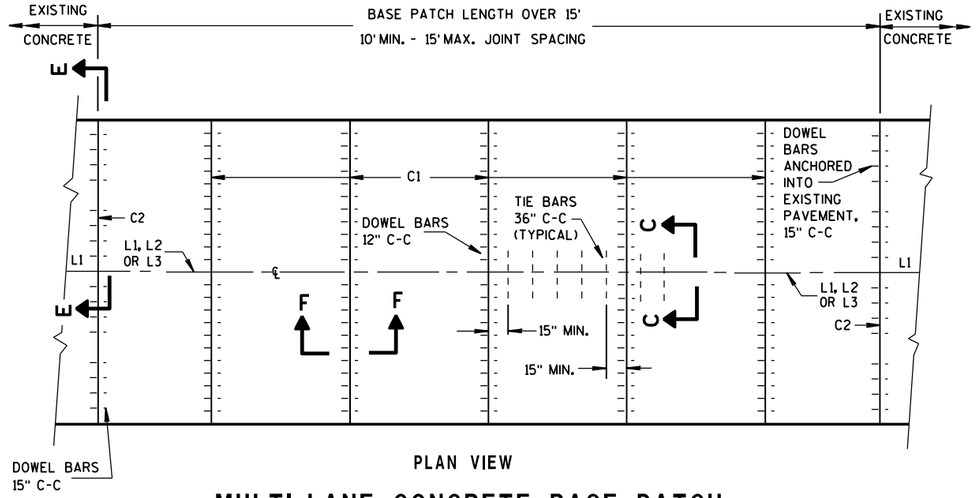


SECTION D-D



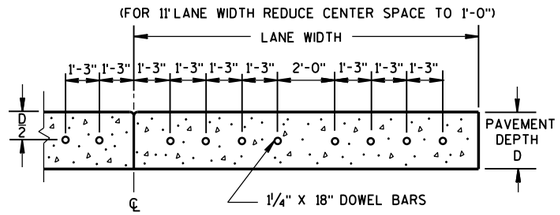
PLAN VIEW

MULTI-LANE CONCRETE BASE PATCH 15' MAXIMUM LENGTH



PLAN VIEW

MULTI-LANE CONCRETE BASE PATCH GREATER THAN 15' IN LENGTH



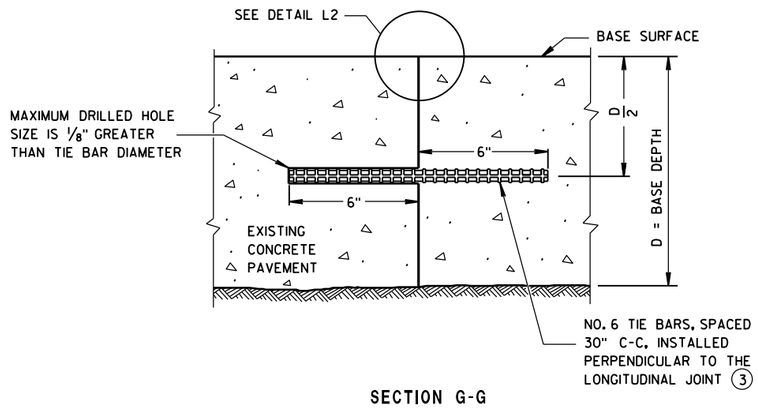
SECTION E-E

SPACING OF DOWEL BARS ANCHORED INTO EXISTING PAVEMENT

BASE PATCHING CONCRETE

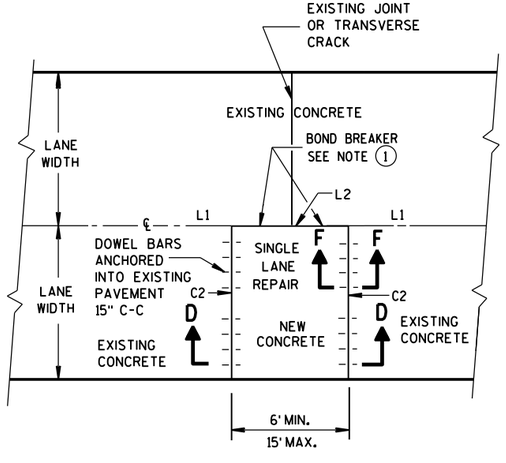
STATE OF WISCONSIN
DEPARTMENT OF TRANSPOI

6
S.D.D. 13 C 14-6b



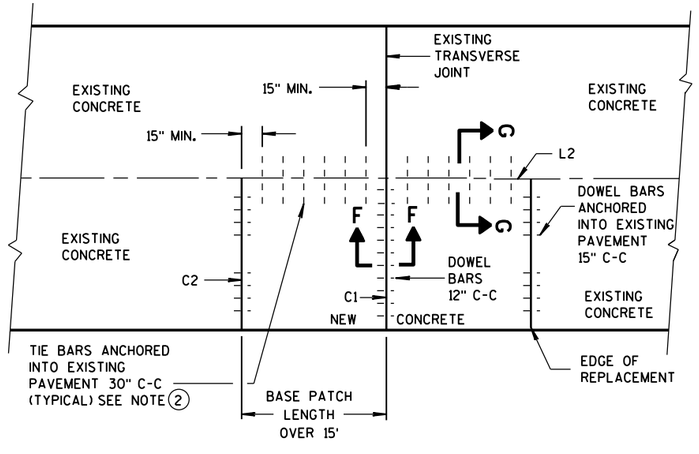
SECTION G-G

TIE BARS ANCHORED INTO EXISTING PAVEMENT



PLAN VIEW

SINGLE LANE CONCRETE BASE PATCH 15' MAXIMUM LENGTH



PLAN VIEW

SINGLE LANE CONCRETE BASE PATCH GREATER THAN 15' IN LENGTH

GENERAL NOTES

(1) USE AN ENGINEER-APPROVED BOND BREAKER (E.G. RELEASE AGENT, CURING COMPOUND) FOR SINGLE LANE BASE PATCHES UP TO 15 FEET IN LENGTH.

(2) WITH THE APPROVAL OF THE ENGINEER, FOR SINGLE LANE PAVEMENT REPLACEMENTS LESS THAN 30 FEET IN LENGTH, DRILLED TIE BARS MAY BE INSTALLED ON 6:1 SKEW HORIZONTALLY, DIRECTION OF SKEW ALTERNATING WITH EACH SUCCESSIVE BAR. DRIVE SKEWED TIE BARS TO A DEPTH OF 6 INCHES IN A HOLE OF SUCH A DIAMETER AS TO PROVIDE A TIGHT DRIVEN FIT.

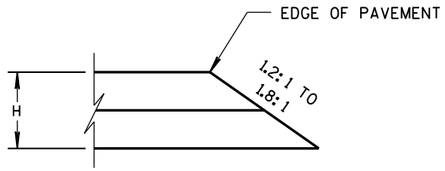
(3) ANCHOR TIE BARS INTO DRILLED HOLES WITH AN EPOXY.

BASE PATCHING CONCRETE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

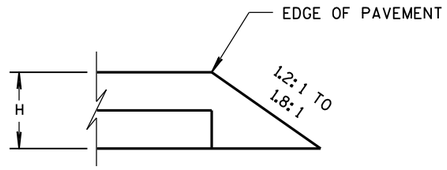
APPROVED
Sept., 2015 — DATE
/S/ Peter Kemp, P.E. — PAVEMENT SUPER
FHWA

6
S.D.D. 13 C 14-6c



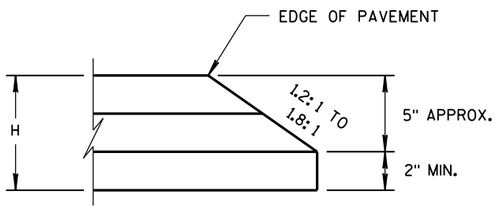
CONSTRUCTED WITH FINAL TWO LAYERS

FOR H 5" OR LESS



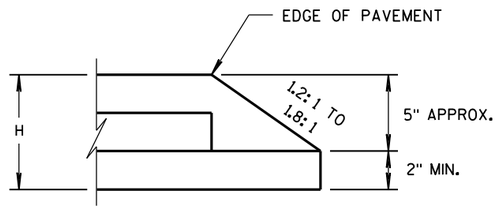
CONSTRUCTED WITH FINAL LAYER

FOR H 5" OR LESS



CONSTRUCTED WITH FINAL TWO LAYERS

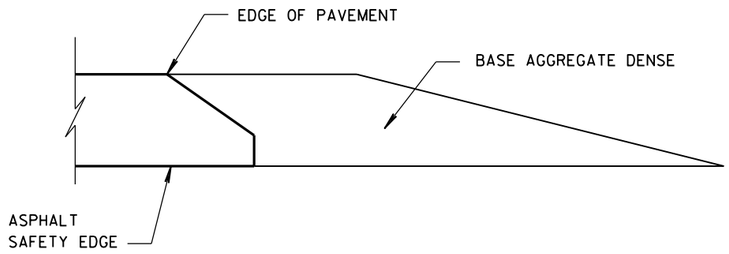
FOR H GREATER THAN 5"



CONSTRUCTED WITH FINAL LAYER

FOR H GREATER THAN 5"

HMA PAVEMENT AND HMA OVERLAYS



FINISHED SHOULDER AGGREGATE PLACEMENT

6

SAFETY EDGE SM

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

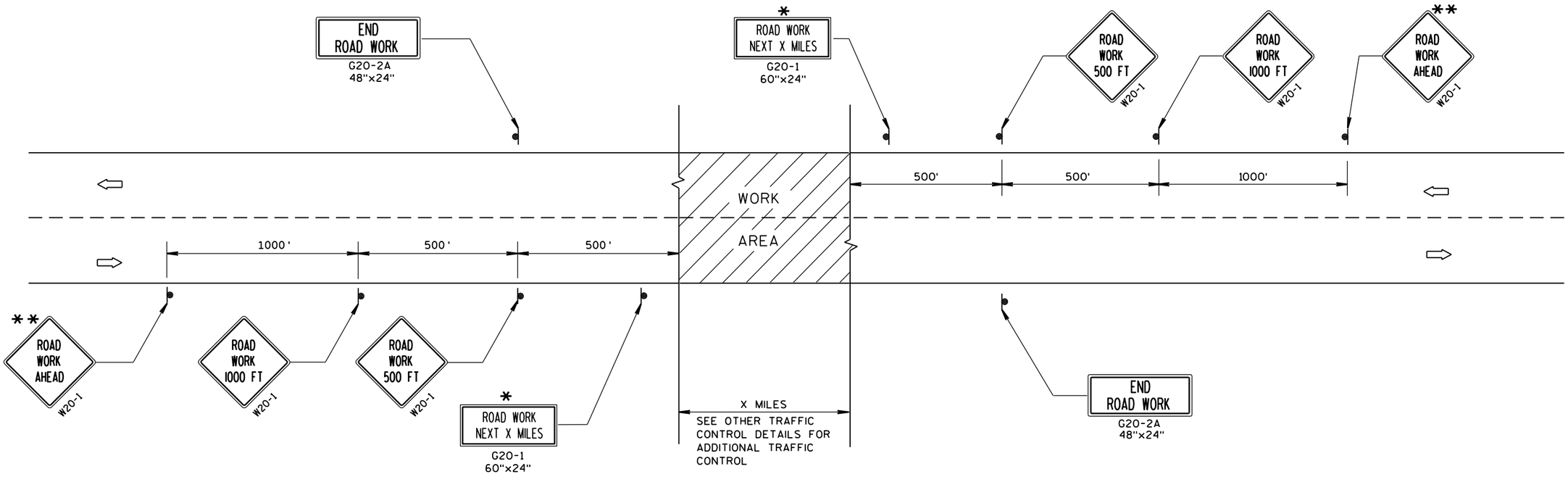
APPROVED
11/30/2012
DATE

/S/ Jerry H. Zoda
ROADWAY STANDARDS DEVELOPMENT ENGINEER

FHWA

S.D.D. 14 B 29-1

S.D.D. 14 B 29-1



TYPICAL SIDEROAD APPROACH WARNING SIGN DETAIL

GENERAL NOTES

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

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.

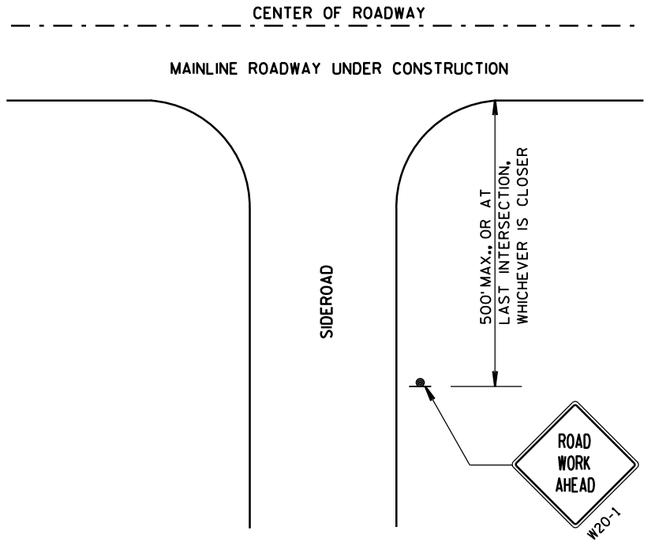
ALL SIGNS ARE 48"x48" UNLESS OTHERWISE NOTED.

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

IF A "STOP" SIGN MUST BE REMOVED FOR A WORK OPERATION, A TEMPORARY "STOP" SIGN SHALL BE PLACED PRIOR TO THE SIGN REMOVAL, OR A FLAGGER SHALL BE PROVIDED UNTIL THE SIGN IS RE-ESTABLISHED.

* OMIT G20-1 SIGNS IF LENGTH OF WORK AREA IS 2 MILES OR LESS.

** PLACE ADDITIONAL W20-1 "ROAD WORK AHEAD" SIGN IF WORK AREA WITHIN THE PROJECT IS SEPARATED BY MORE THAN 2 MILES FROM PREVIOUS WORK AREA.



LEGEND

- SIGN ON PERMANENT SUPPORT
- DIRECTION OF TRAFFIC
- WORK AREA

TRAFFIC CONTROL, ADVANCE WARNING SIGNS 45 M.P.H. OR GREATER TWO-WAY UNDIVIDED ROAD OPEN TO TRAFFIC

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

8/2013 — DATE

/S/ Travis Feltes — STATE TRAFFIC ENGINEER

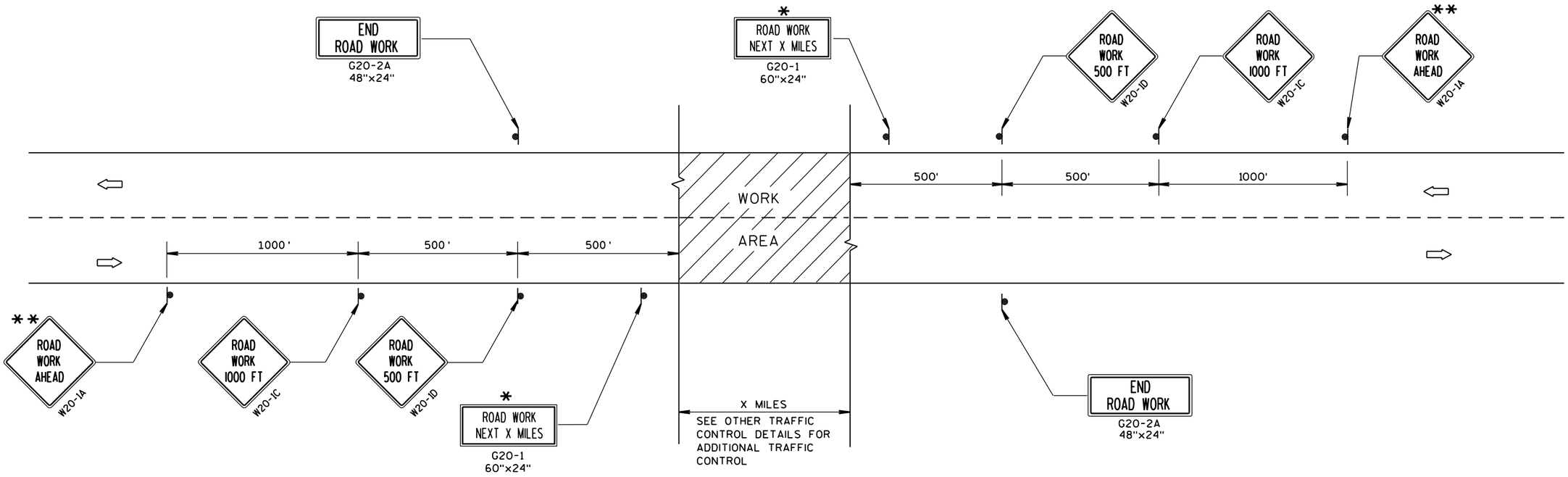
SIGN

FHWA

6

S.D.D. 15 C 4-2

TYPICAL SIDEROAD APPROACH WARNING SIGN DETAIL



GENERAL NOTES

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

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.

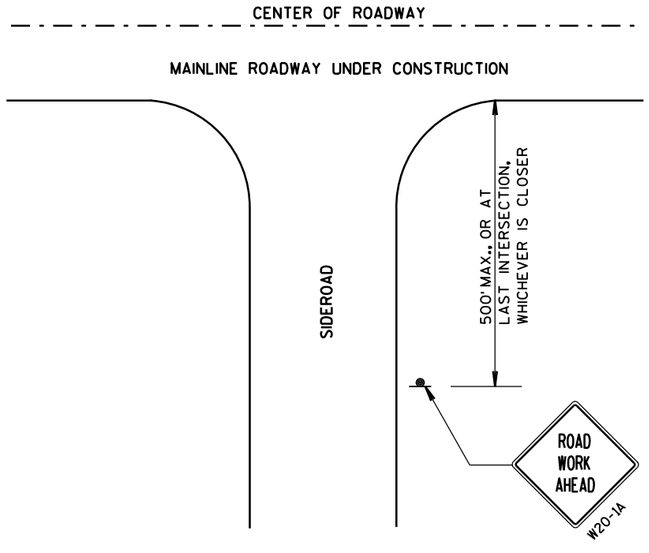
ALL SIGNS ARE 48"x48" UNLESS OTHERWISE NOTED.

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

IF A "STOP" SIGN MUST BE REMOVED FOR A WORK OPERATION, A TEMPORARY "STOP" SIGN SHALL BE PLACED PRIOR TO THE SIGN REMOVAL, OR A FLAGGER SHALL BE PROVIDED UNTIL THE SIGN IS RE-ESTABLISHED.

* OMIT G20-1 SIGNS IF LENGTH OF WORK AREA IS 2 MILES OR LESS.

** PLACE ADDITIONAL W20-1A "ROAD WORK AHEAD" SIGN IF WORK AREA WITHIN THE PROJECT IS SEPARATED BY MORE THAN 2 MILES FROM PREVIOUS WORK AREA.



LEGEND

- SIGN ON PERMANENT SUPPORT
- DIRECTION OF TRAFFIC
- WORK AREA

TRAFFIC CONTROL, ADVANCE WARNING SIGNS 45 M.P.H. OR GREATER TWO-WAY UNDIVIDED ROAD OPEN TO TRAFFIC

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

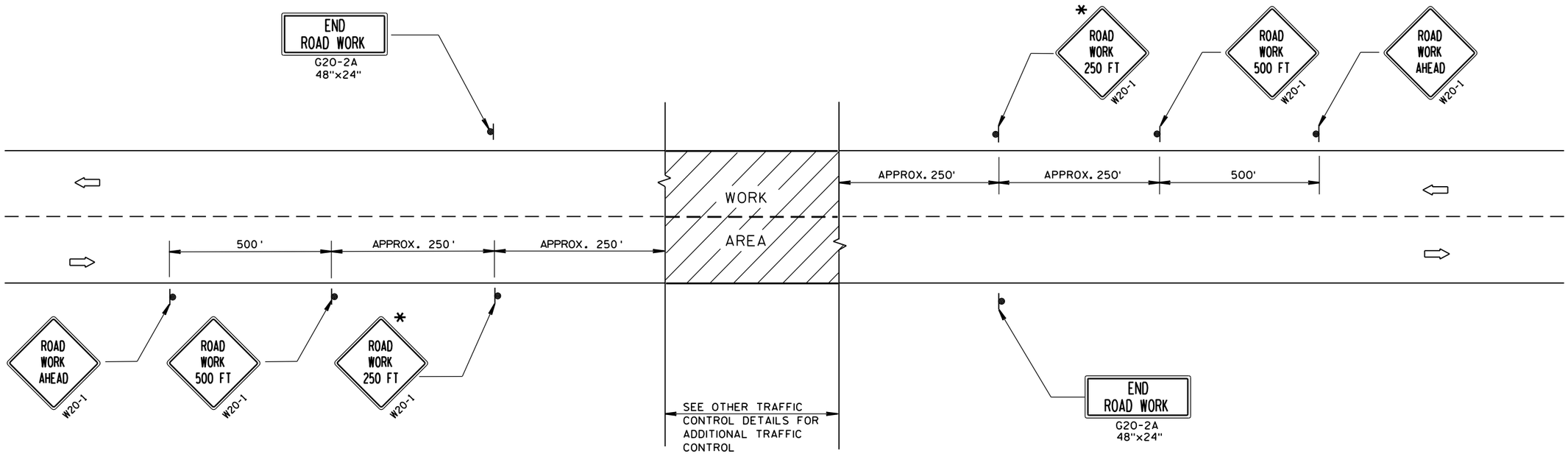
Sept. 2015 — DATE

/S/ Peter Amakobe Atepe — STATEWIDE WORK ZONE SAFETY ENGINEER

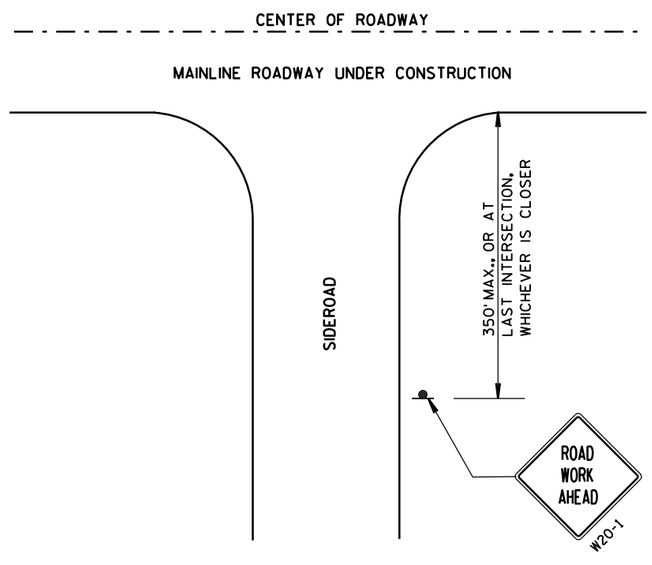
FHWA

6

S.D.D. 15 C 4-3



TYPICAL SIDEROAD APPROACH WARNING SIGN DETAIL



GENERAL NOTES

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

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

ALL SIGNS ARE 48"x48" UNLESS OTHERWISE NOTED. IF NECESSARY DUE TO SPACE CONSTRAINTS, 36"x36" SIGNS MAY BE USED INSTEAD OF 48"x48" SIGNS.

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

IF A "STOP" SIGN MUST BE REMOVED FOR A WORK OPERATION, A TEMPORARY "STOP" SIGN SHALL BE PLACED PRIOR TO THE SIGN REMOVAL, OR A FLAGGER SHALL BE PROVIDED UNTIL THE SIGN IS RE-ESTABLISHED.

* THE THIRD W20-1 SIGN IS REQUIRED ONLY IF THERE IS AN INTERSECTION BETWEEN THE "ROAD WORK 500 FT" SIGN AND THE WORK ZONE. ADJUST THE PLACEMENT OF THIS SIGN BASED ON INTERSECTION LOCATION AND OTHER FIELD CONDITIONS.

LEGEND

- SIGN ON PERMANENT SUPPORT
- DIRECTION OF TRAFFIC
- WORK AREA

TRAFFIC CONTROL, ADVANCE WARNING SIGNS 40 M.P.H. OR LESS TWO-WAY UNDIVIDED ROAD OPEN TO TRAFFIC

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

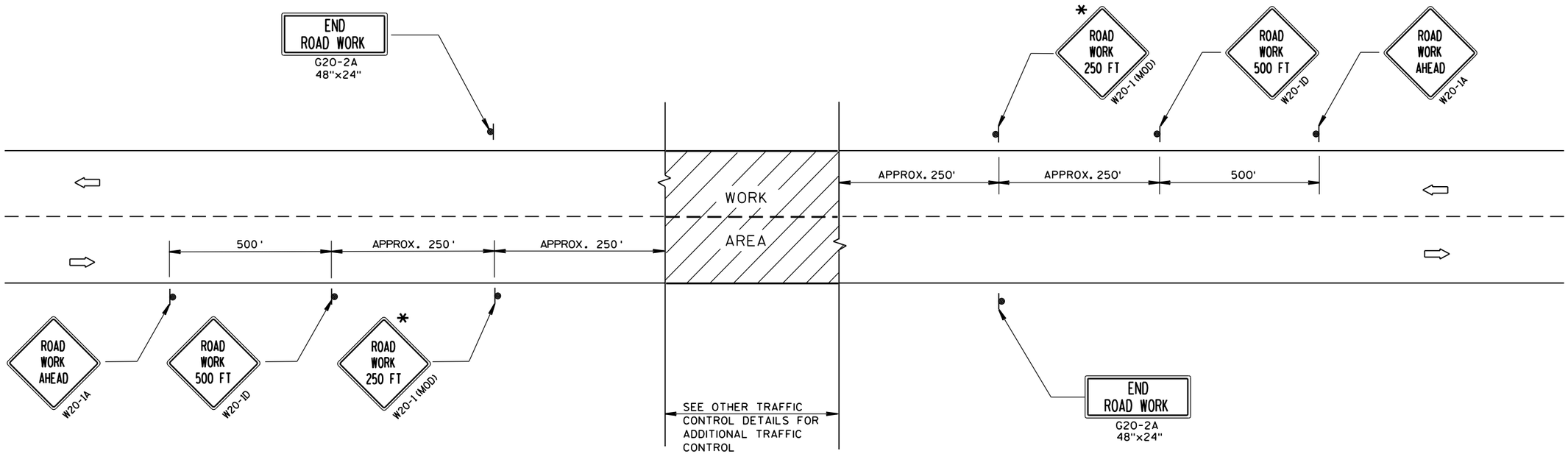
APPROVED

8/2013 DATE — /S/ Travis Feltes STATE TRAFFIC ENGINEER — SIGN

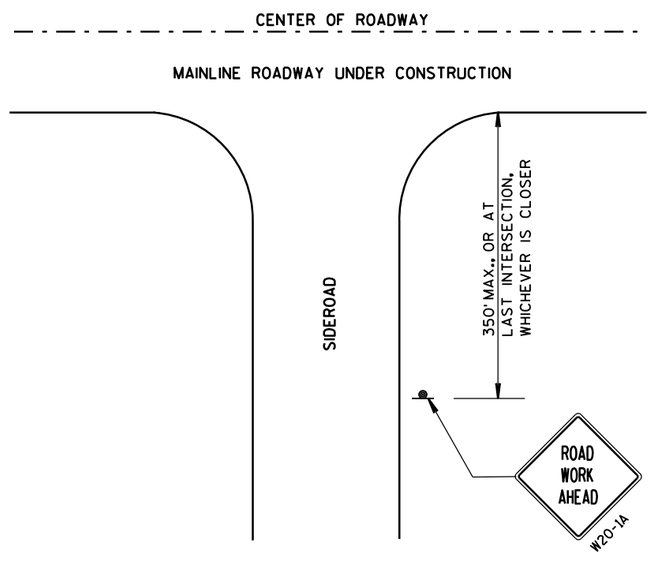
FHWA

6

S.D.D. 15 C 5-2



TYPICAL SIDEROAD APPROACH WARNING SIGN DETAIL



GENERAL NOTES

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

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

ALL SIGNS ARE 48"x48" UNLESS OTHERWISE NOTED. IF NECESSARY DUE TO SPACE CONSTRAINTS, 36"x36" SIGNS MAY BE USED INSTEAD OF 48"x48" SIGNS.

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

IF A "STOP" SIGN MUST BE REMOVED FOR A WORK OPERATION, A TEMPORARY "STOP" SIGN SHALL BE PLACED PRIOR TO THE SIGN REMOVAL, OR A FLAGGER SHALL BE PROVIDED UNTIL THE SIGN IS RE-ESTABLISHED.

* THE THIRD W20-1 SIGN IS REQUIRED ONLY IF THERE IS AN INTERSECTION BETWEEN THE "ROAD WORK 500 FT" SIGN AND THE WORK ZONE. ADJUST THE PLACEMENT OF THIS SIGN BASED ON INTERSECTION LOCATION AND OTHER FIELD CONDITIONS.

LEGEND

- SIGN ON PERMANENT SUPPORT
- DIRECTION OF TRAFFIC
- WORK AREA

TRAFFIC CONTROL, ADVANCE WARNING SIGNS 40 M.P.H. OR LESS TWO-WAY UNDIVIDED ROAD OPEN TO TRAFFIC

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
Sept. 2015 — DATE
/S/ Peter Amakobe Atepe
STATEWIDE WORK ZOI SAFETY ENGIN IC
FHWA

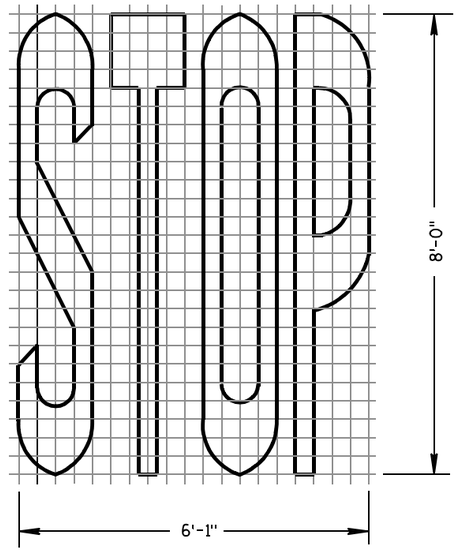
6

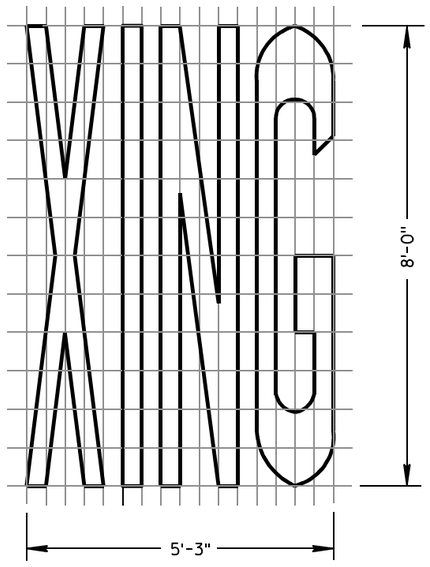
S.D.D. 15 C 5-3

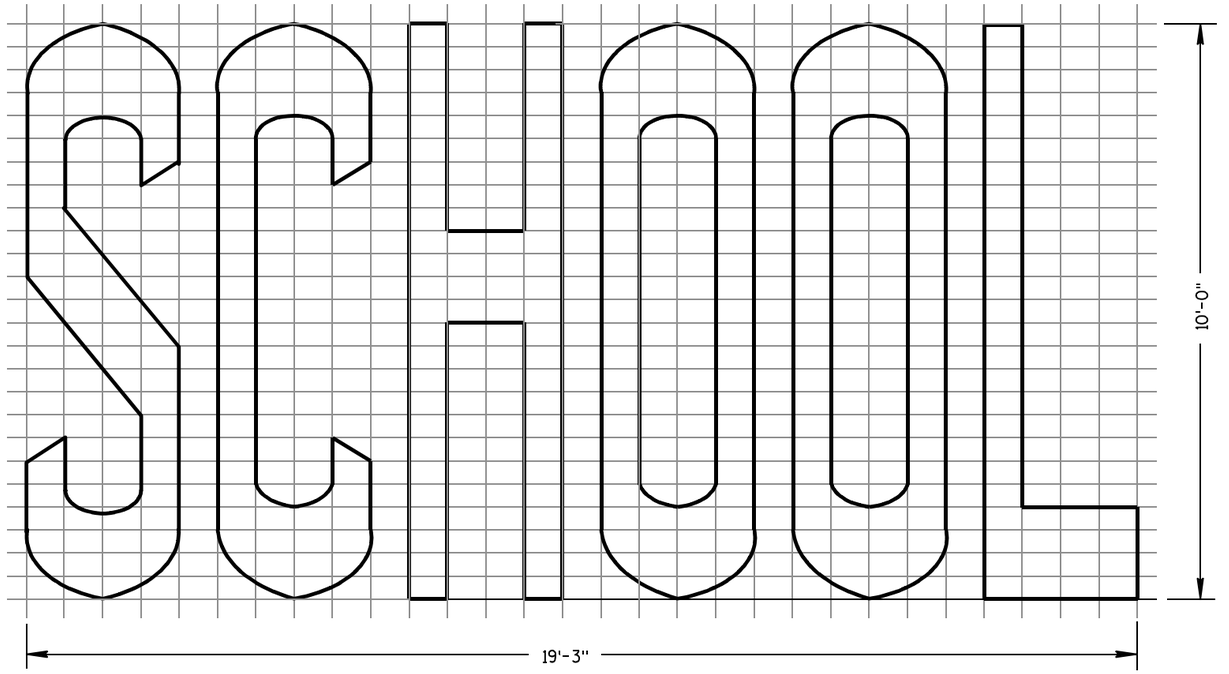
GENERAL NOTES

DETAILS OF INSTALLATION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND APPLICABLE SPECIAL PROVISIONS.

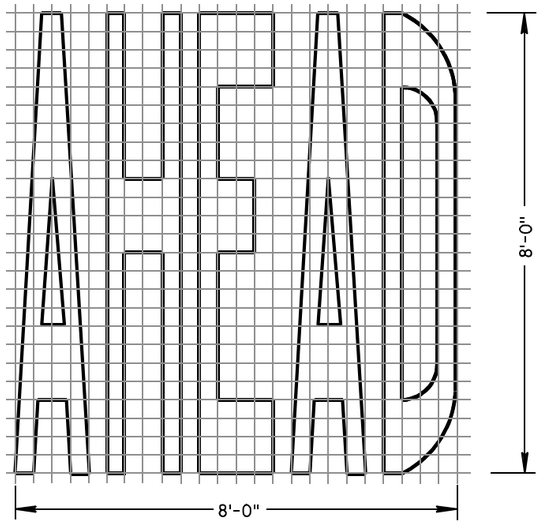
ALL LETTERS, ARROWS AND SYMBOLS SHALL BE IN CONFORMANCE WITH REQUIREMENTS INCLUDED IN "STANDARD ALPHABETS FOR HIGHWAY SIGNS AND PAVEMENT MARKING" BOOK BY THE FEDERAL HIGHWAY ADMINISTRATION. ALL LETTERS, ARROWS AND SYMBOLS SHALL BE WHITE AND REFLECTORIZED. SMALL DIFFERENCES IN DIMENSIONS WITHIN THE TOLERANCES OF THAT BOOK ARE ACCEPTABLE.

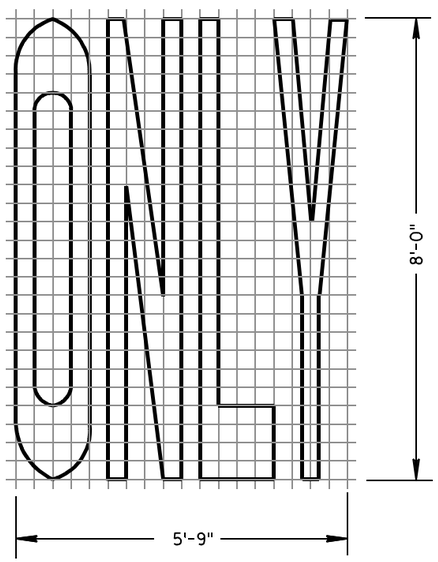


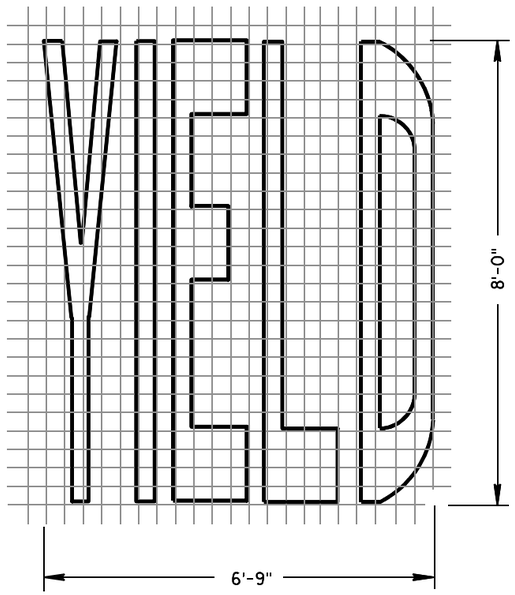


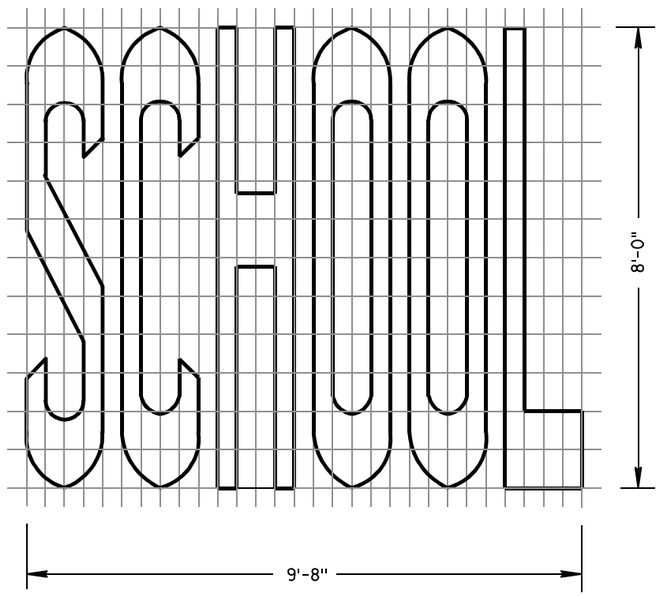


TWO-LANE









SINGLE-LANE

PAVEMENT MARKING WORDS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

7-1-11 DATE — /S/ Thomas N. Nothohm STATE TRAFFIC ENGINEER — IGN

FHWA

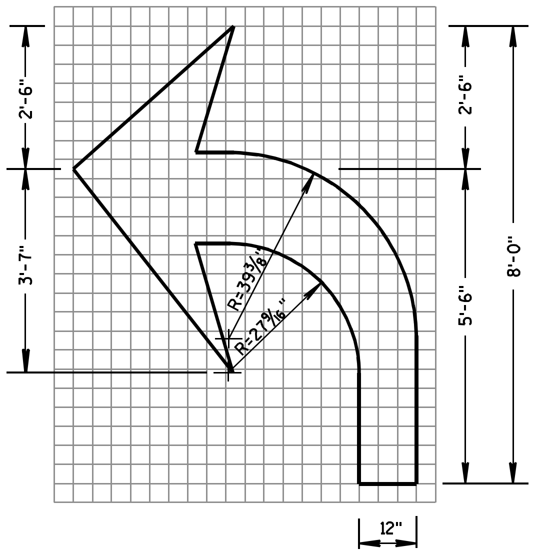
6

S.D.D. 15 C 7-12b

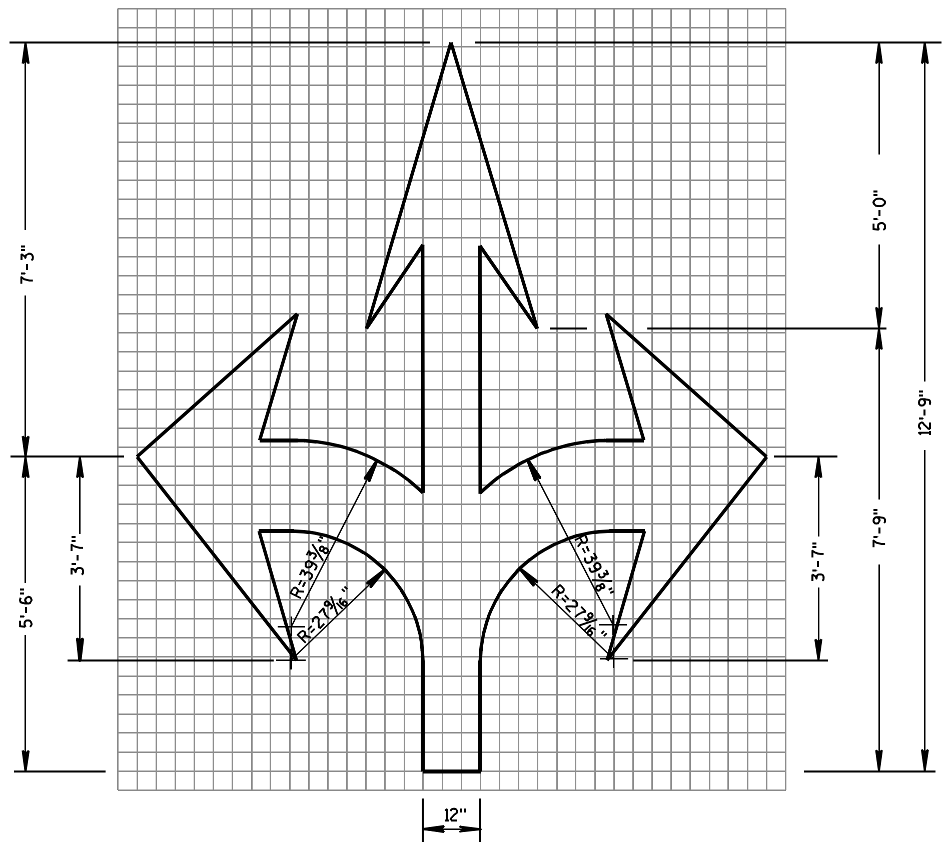
GENERAL NOTES

DETAILS OF INSTALLATION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND APPLICABLE SPECIAL PROVISIONS.

ALL LETTERS, ARROWS AND SYMBOLS SHALL BE IN CONFORMANCE WITH REQUIREMENTS INCLUDED IN "STANDARD ALPHABETS FOR HIGHWAY SIGNS AND PAVEMENT MARKING" BOOK BY THE FEDERAL HIGHWAY ADMINISTRATION. ALL LETTERS, ARROWS AND SYMBOLS SHALL BE WHITE AND REFLECTORIZED. SMALL DIFFERENCES IN DIMENSIONS WITHIN THE TOLERANCES OF THAT BOOK ARE ACCEPTABLE.



TYPE 2



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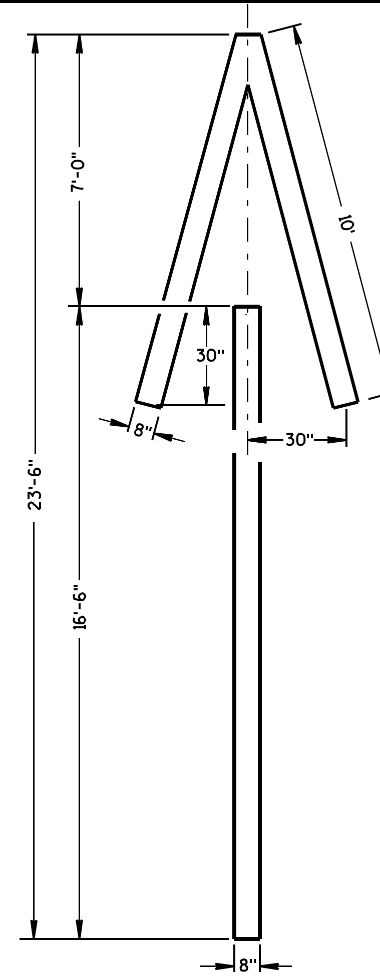

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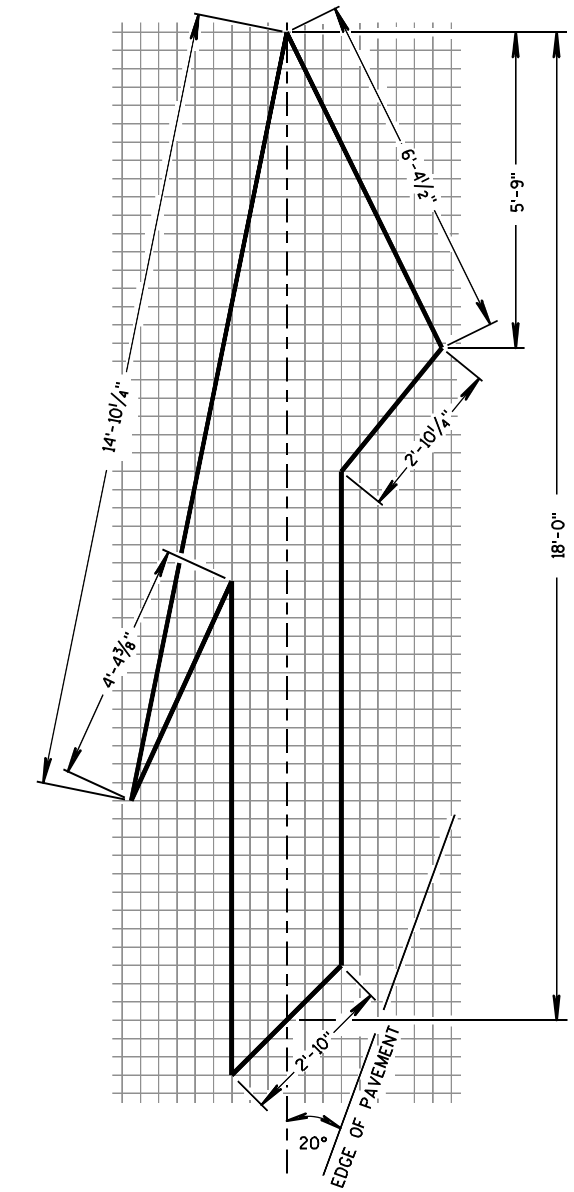
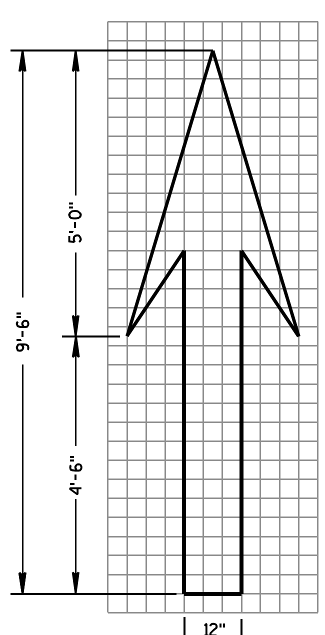
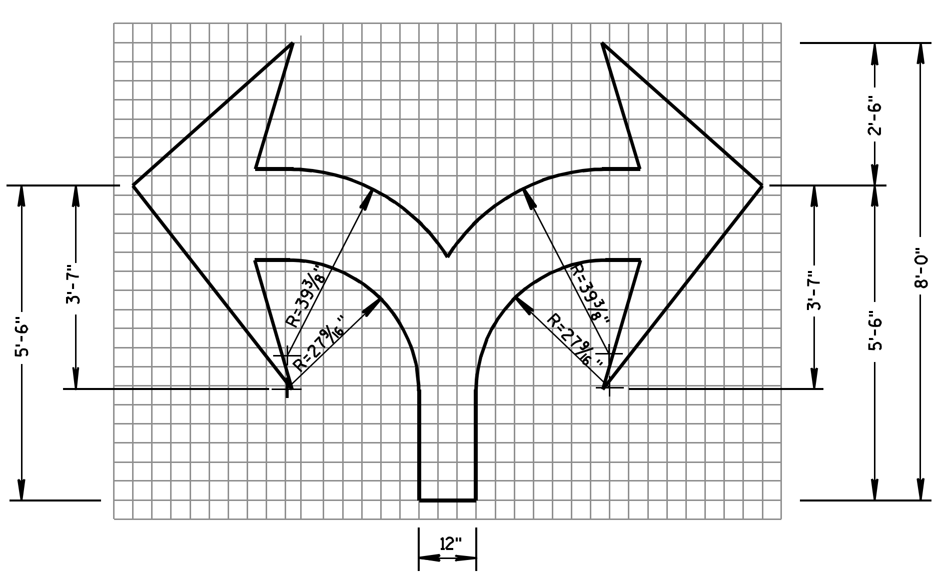


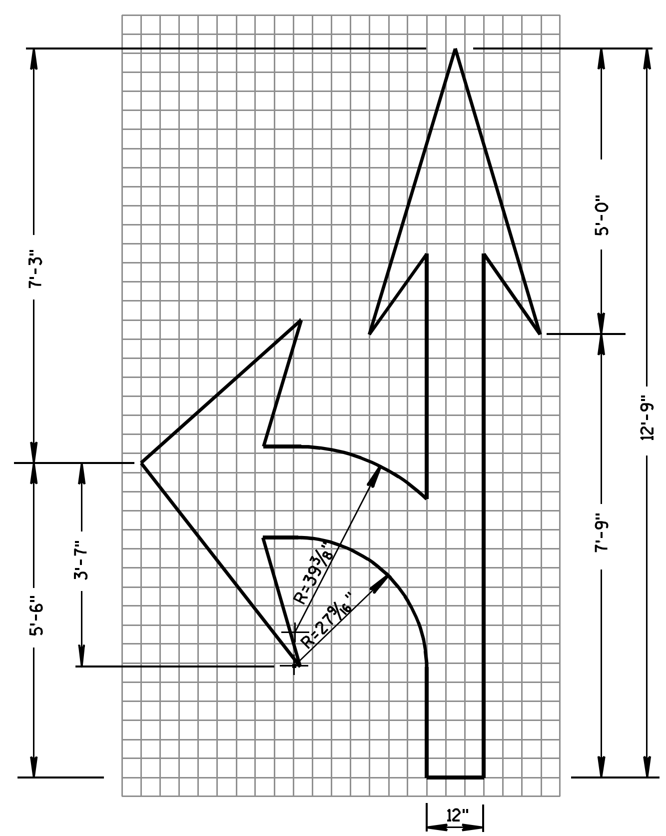
TYPE 5 LANE DROP ARROW



TYPE 1



TYPE 7



TYPE 3

PAVEMENT MARKING ARROWS

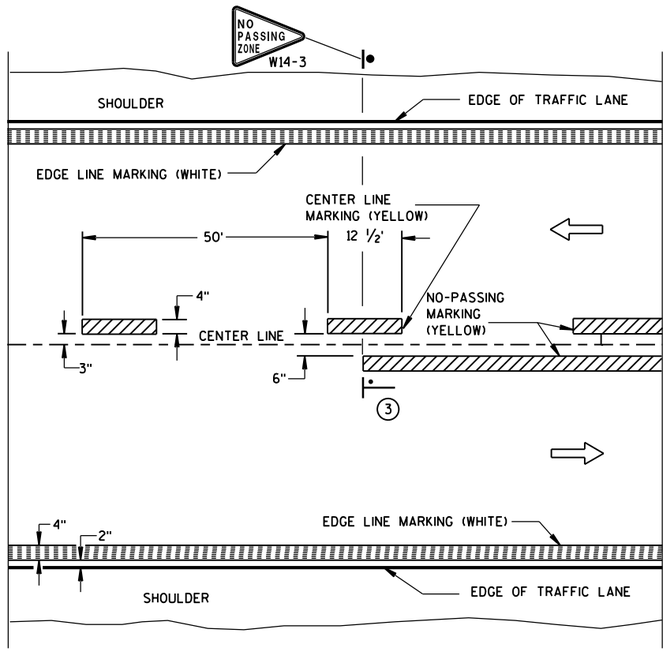
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

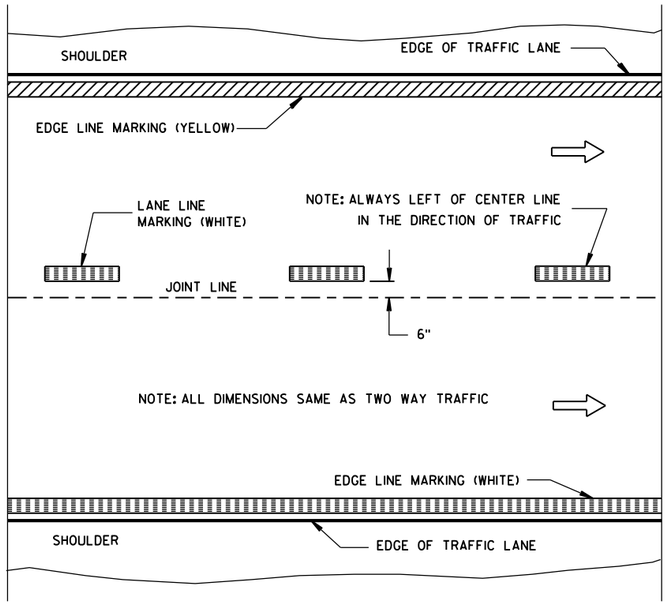
7/1/11 — DATE

/S/ Thomas N. [illegible] — STATE TRAFFIC ENGINE[illegible] 117 [illegible]SIGN

FHWA

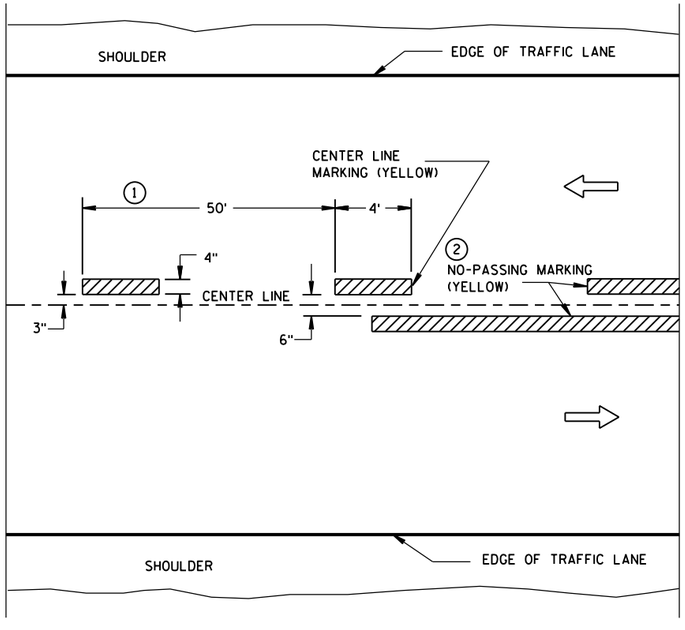


TWO WAY TRAFFIC

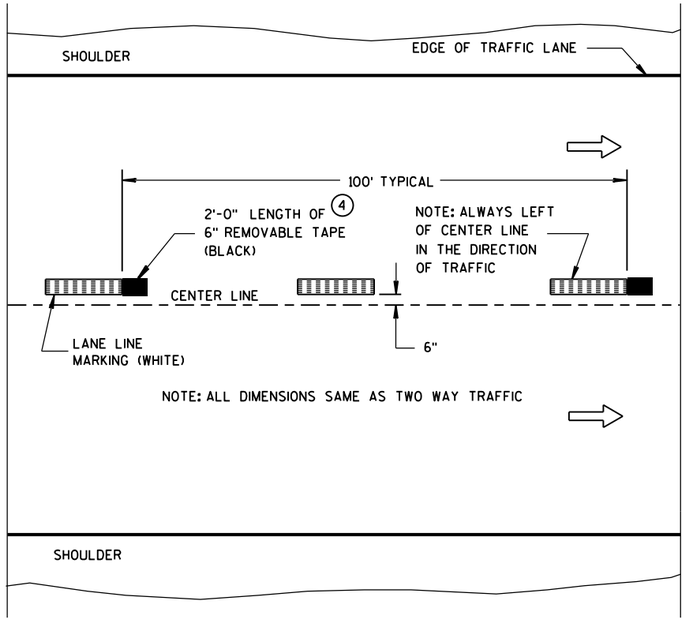


ONE WAY TRAFFIC

PERMANENT PAVEMENT MARKING



TWO WAY TRAFFIC



ONE WAY TRAFFIC

TEMPORARY (INTERMEDIATE) PAVEMENT MARKING

(SHOWS CYCLE FOR TEMPORARY CENTER LINE OR TEMPORARY LANE LINE MARKING)

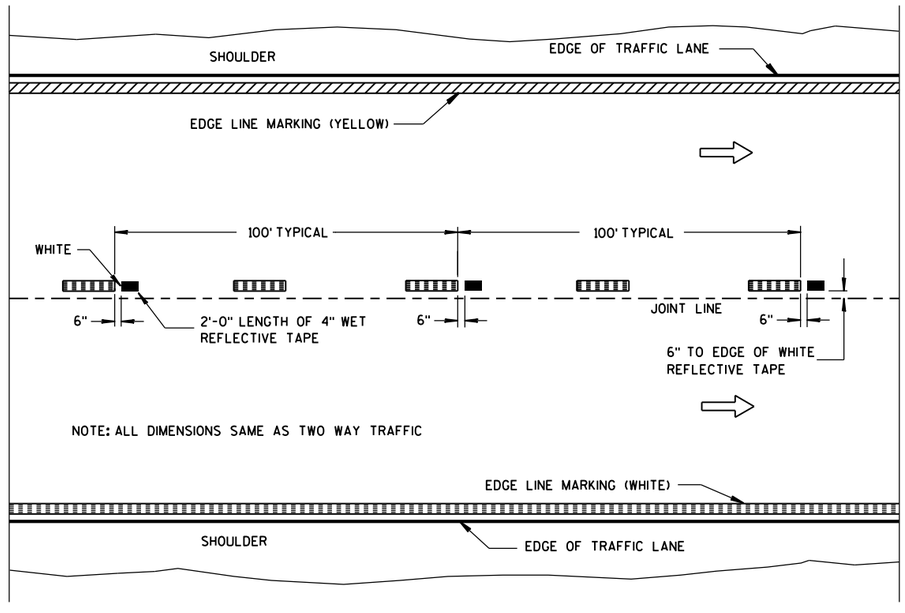
GENERAL NOTES

DETAILS OF CONSTRUCTION NOT SHOWN ON THIS DRAWING SHALL CONFORM TO STANDARD SPECIFICATIONS AND SPECIAL PROVISIONS.

1. HALF CYCLE LENGTHS (25'±) WITH 2' MINIMUM STRIPE LENGTHS SHALL BE PROVIDED ON ROADWAYS (INCLUDING TEMPORARY TRAVELED WAYS) WITH REVERSE CURVATURE, CURVATURE OF OVER 5 DEGREES OR WHEN DIRECTED BY THE ENGINEER TO MARK UNUSUAL ALIGNMENT OF THE TRAVELED WAY.
2. NO PASSING ZONE TEMPORARY PAVEMENT MARKING IS REQUIRED TO BE PLACED, WHERE APPROPRIATE, ALONG WITH CENTERLINE TEMPORARY PAVEMENT MARKING WHEN A SAME DAY PERMANENT PAVEMENT MARKING ITEM IS INCLUDED IN THE CONTRACT.
3. NO PASSING ZONE MARKINGS ARE PLACED ACCORDING TO "T" MARKINGS. IF EXISTING NO PASSING ZONE W14-3 SIGNS ARE BEYOND 50 FEET IN EITHER DIRECTION, THE SIGNS SHALL BE MOVED TO THE "T" MARKINGS.
4. CONCRETE ONLY.

NOTE

ARROW SYMBOL (⇨) SHOWS DIRECTION OF TRAVEL



WET REFLECTIVE TAPE SUPPLEMENT TO
SPRAYED OR NON WET REFLECTIVE TAPE LANE LINE

LEGEND

"T" MARKING

POST MOUNTED SIGN

PAVEMENT MARKING (MAINLINE)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

5-13-2013 — DATE

/S/ Travis Feltes — STATE TRAFFIC E

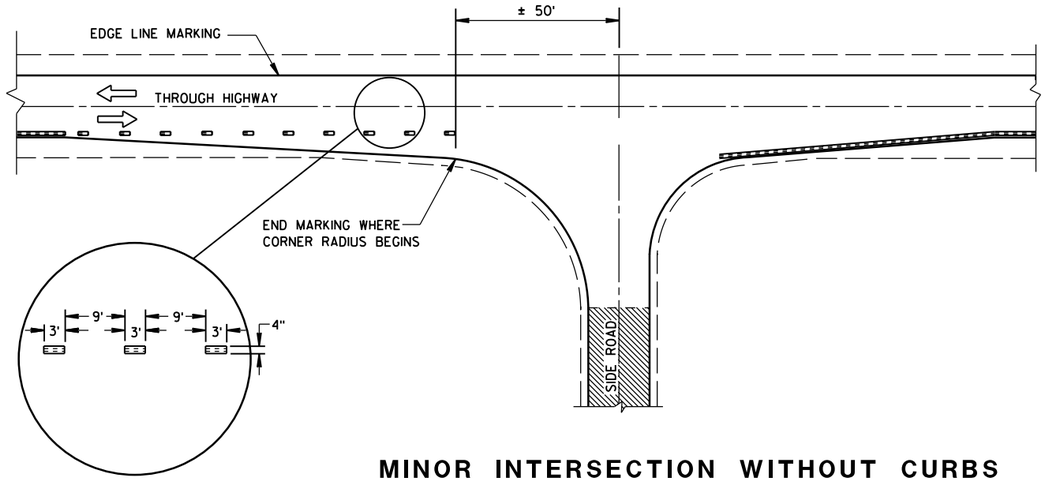
FHWA

6

S.D.D. 15 C 8-16a

6

S.D.D. 15 C 8-16a



MINOR INTERSECTION WITHOUT CURBS

GENERAL NOTES

EDGE LINES SHALL BE OMITTED THROUGH INTERSECTIONS. EDGE LINES SHALL BE CONTINUED THROUGH DRIVEWAYS.

(1) WHEN DISTANCE "A" IS LESS THAN 250 FEET, OMIT LANE LINE.

(2) WHEN DISTANCE "B" IS LESS THAN 100 FEET, OMIT CHANNELIZING LANE LINE.

(3) ALTERNATIVE MARKING SHALL BE PROVIDED WHEN SPECIFIED IN THE CONTRACT. TYPICAL SITUATIONS WHERE THIS MARKING MAY BE REQUIRED ARE WHERE THE INTERSECTION IS ON A SHARP HORIZONTAL CURVE OR CREST VERTICAL CURVE IN AN UNLIGHTED AREA SUCH THAT THE EDGE LINE MAY BE MISLEADING TO THE MOTORIST OR DISAPPEAR FROM SIGHT.

(4) THE EDGE LINE IN THE TAPER AREAS OF THE BYPASS LANE AND THE BYPASS LANE SHALL BE LOCATED 1-FOOT FROM EDGE OF PAVEMENT TO THE OUTSIDE EDGE OF EDGE LINE.

(5) BARRIER LINE ENDS AT SIDE ROAD PAVEMENT/SURFACE EDGE EXTENSION.

(6) BARRIER LINE STARTS 500 FEET PRIOR TO THE BYPASS TAPER.

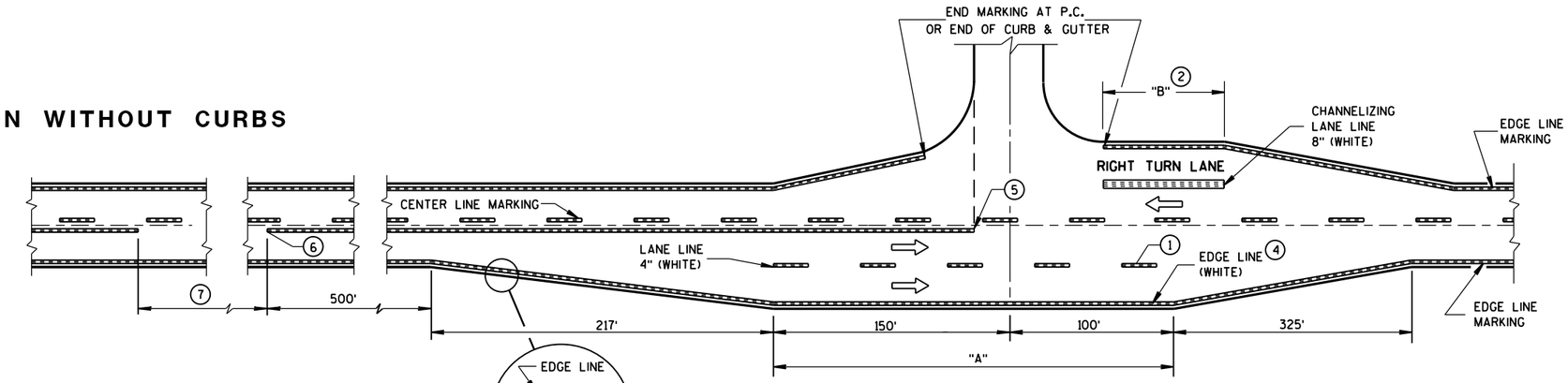
(7) IF THE DISTANCE BETWEEN 2 SUCCESSIVE NO-PASSING ZONES IS LESS THAN THE MINIMUM DISTANCE BETWEEN ZONES, CONNECT THE 2 ZONES.

(8) 3' LINE 9' GAP, EXCEPT RETRACE THE EXISTING LINE - GAP PATTERN WHERE EXISTING MARKINGS ARE IN PLACE.

ARROW SYMBOL (⇨) SHOWS DIRECTION OF TRAVEL

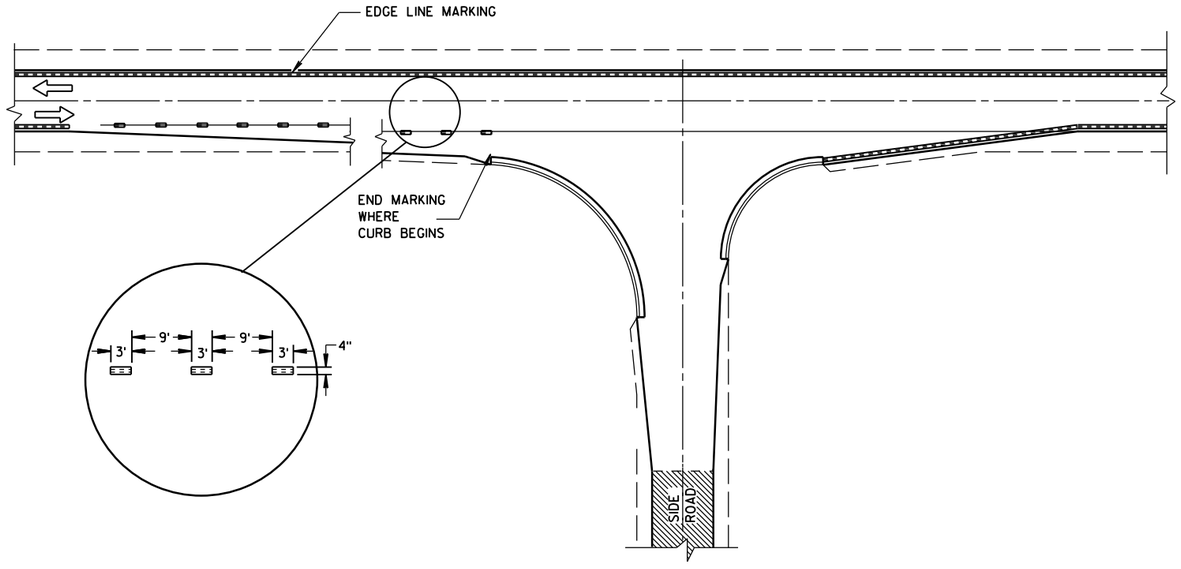
(7)

POSTED SPEED (MPH)	MINIMUM DISTANCE BETWEEN ZONES (FEET)
25 - 30	528
35 - 40	528
45 - 50	686
55	792



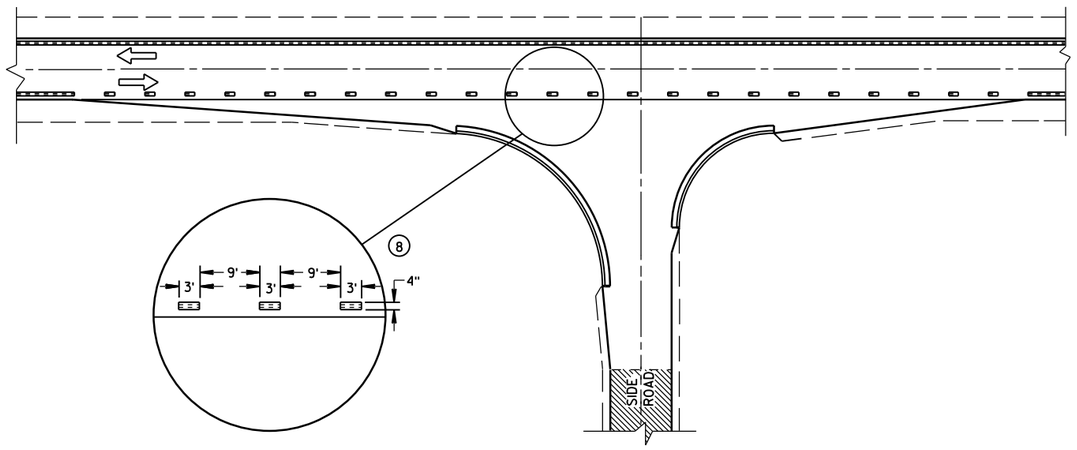
MAJOR INTERSECTIONS

(INTERSECTION WITH FULL RIGHT TURN LANE OR BYPASS LANES)



MINOR INTERSECTION WITH CURBS

(TYPICAL MARKING)



MINOR INTERSECTION WITH CURBS

(3) (FOR SPECIAL CONDITIONS AS SPECIFIED)

PAVEMENT MARKING
(INTERSECTIONS)

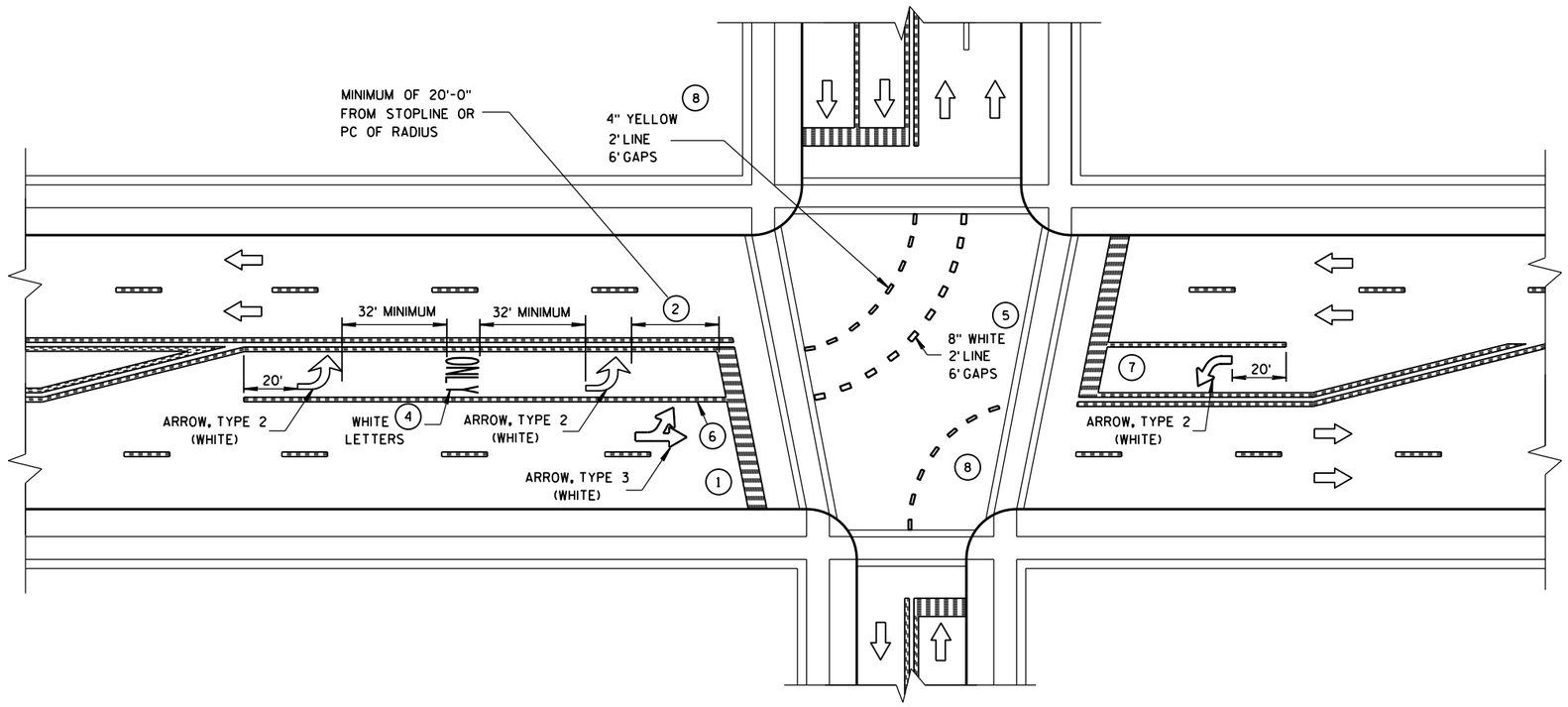
STATE OF WISCONSIN
DEPARTMENT OF TRANSPOR

6

S.D.D. 15 C 8-16b

6

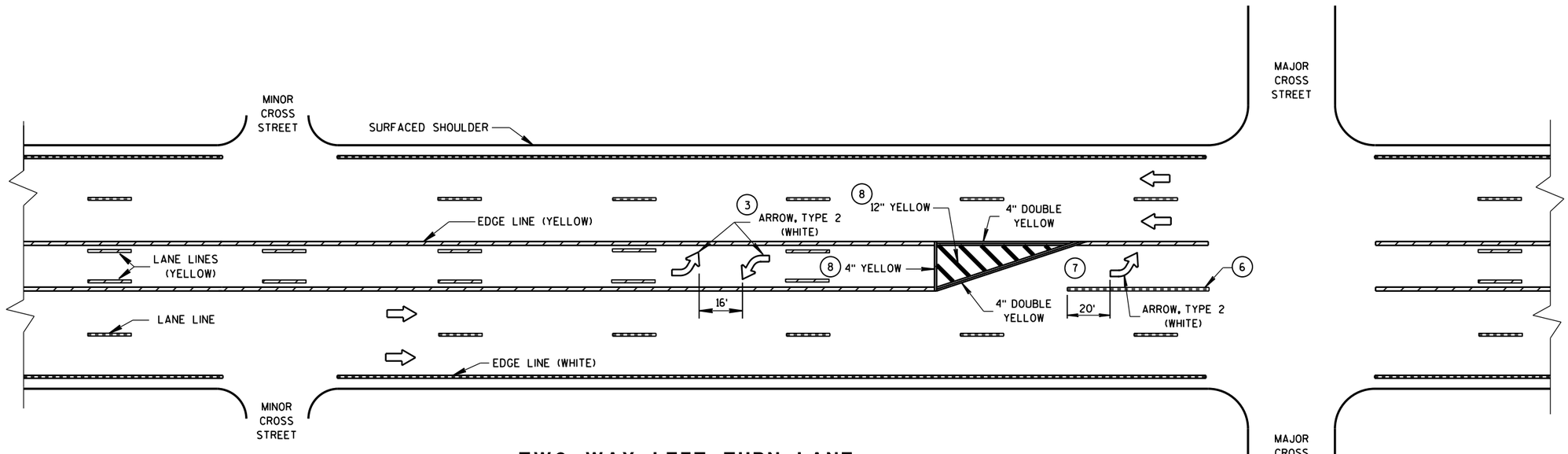
S.D.D. 15 C 8-16b



GENERAL NOTES

1. STOP BAR IS REQUIRED ONLY WHEN SPECIFIED IN THE CONTRACT.
2. DISTANCE MAY BE ADJUSTED TO ACCOMODATE SHORT LEFT TURN LANES. AS APPROVED BY THE ENGINEER.
3. A SET OF ARROWS IS REQUIRED EVERY 400 FEET OR NEAR INTERSECTIONS OR DRIVEWAYS WITH TURNING TRAFFIC.
4. ADD EXTRA SETS OF ONE ARROW AND ONE ONLY PER 160 FEET OR WHEN ON A CURVE.
5. 8" WHITE WITH 2' LINE 6' GAPS FOR DUAL TURN LANE.
6. 8" WHITE
7. ADD SECOND ARROW WHEN TURN BAY IS GREATER THAN OR EQUAL TO 108 FEET.
8. REQUIRED ONLY WHEN SPECIFIED IN THE CONTRACT.

NOTE:
ARROW SYMBOL (⇨)
SHOWS DIRECTION OF TRAVEL



TWO WAY LEFT TURN LANE

PAVEMENT MARKING (LEFT TURN LANE)

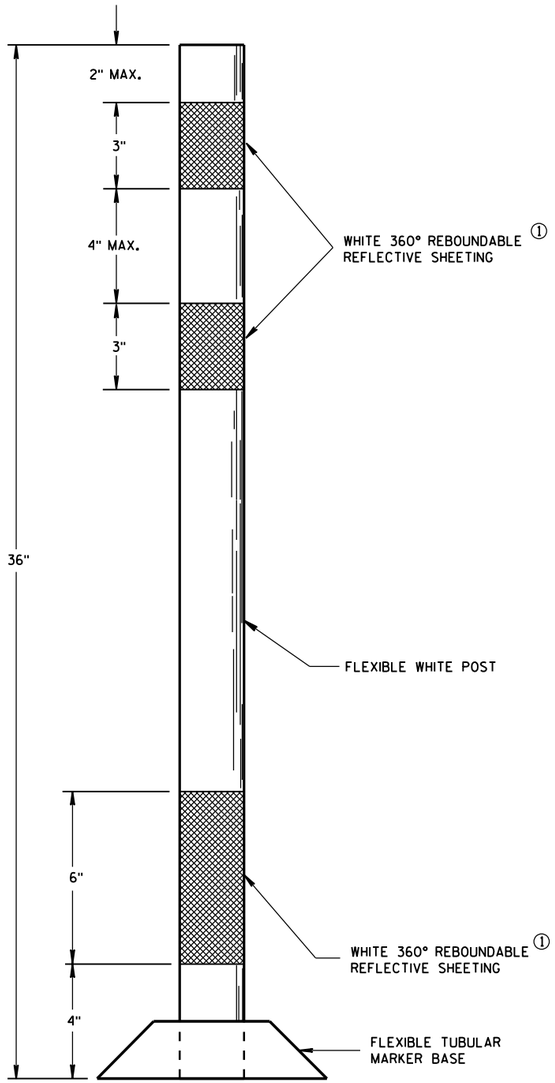
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

6

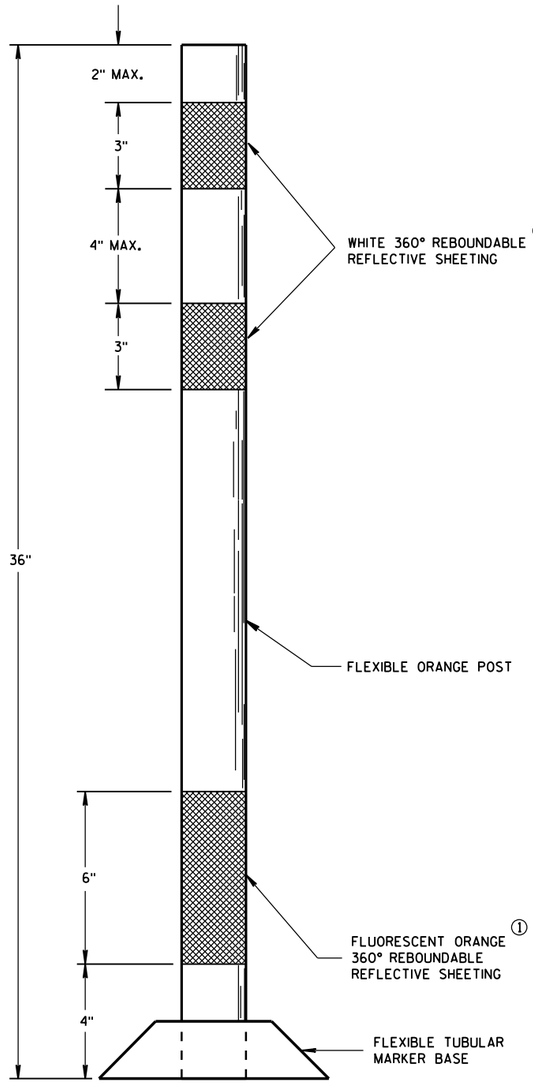
S.D.D. 15 C 8-16e

6

S.D.D. 15 C 8-16e



FLEXIBLE
TUBULAR MARKER POST
PERMANENT CROSSOVER



FLEXIBLE
TUBULAR MARKER POST
WORK ZONE

GENERAL NOTES

DETAILS OF CONSTRUCTION NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND APPLICABLE SPECIAL PROVISIONS.

SURFACE MOUNTED BASES SHALL BE FURNISHED IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS TO BE COMPATIBLE WITH FLEXIBLE TUBULAR MARKER POSTS TO A SIZE AND SHAPE THAT WILL PROVIDE A STABLE POST FOUNDATION WHEN SECURED TO THE PAVEMENT.

THE ASPHALTIC ADHESIVE OR BUTYL PAD FURNISHED SHALL BE IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS.

① REFLECTIVE SHEETING SHALL FOLLOW THE REQUIREMENTS IN THE APPROVED PRODUCTS LISTING FOR SIGN SHEETING.

FLEXIBLE TUBULAR MARKER POST
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION
APPROVED 10-16-2015 — DATE /S/ Peter Amakobe Atepe — STATEWIDE WORK ZON SAFETY ENGINE FHWA

6

S.D.D. 15 C 11-6

LEGEND

SIGN ON PORTABLE OR PERMANENT SUPPORT

DIRECTION OF TRAFFIC

WORK AREA

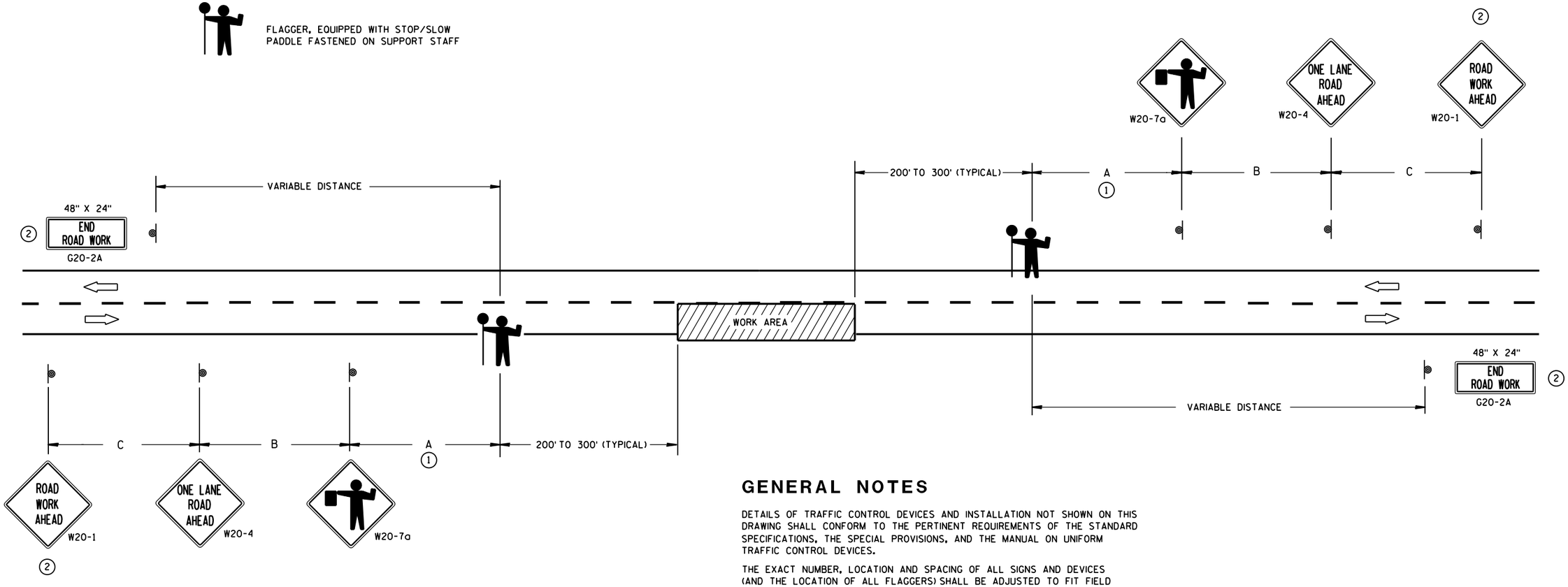
FLAGGER, EQUIPPED WITH STOP/SLOW PADDLE FASTENED ON SUPPORT STAFF

SIGN SPACING TABLE

SPEED LIMIT	SIGN SPACING A,B,C
25-35 MPH	200'
35-40 MPH	350'
45-55 MPH	500'

W3-4

USE OF THE "BE PREPARED TO STOP" SIGN IS OPTIONAL. WHEN USED, THIS SIGN SHALL BE LOCATED BETWEEN THE W20-7a AND W20-4 SIGNS. A 500' TYPICAL SPACING SHALL BE PROVIDED BETWEEN THE SIGNS.



(1) FOR A MOVING WORK OPERATION,
SIGNING FOR BOTH DIRECTIONS SHALL BE REESTABLISHED (AS SIMULTANEOUSLY AS PRACTICAL) AT APPROXIMATELY 3500 FOOT INTERVALS IN THE MOVING WORK OPERATION OR AS APPROVED BY THE ENGINEER.

(2) SIGN NOT REQUIRED IF FLAGGING OPERATION OCCURS WITHIN A SIGNED ROAD WORK ZONE AREA.

GENERAL NOTES

DETAILS OF TRAFFIC CONTROL DEVICES AND INSTALLATION NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS, THE SPECIAL PROVISIONS, AND THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.

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

THE FIRST ADVANCE WARNING SIGN SHOULD TYPICALLY BE LOCATED IN ADVANCE OF THE ANTICIPATED TRAFFIC BACKUP OR QUEUE.

WHEN A SIDE ROAD OR 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.

FLAGGERS SHALL BE IN SIGHT OF EACH OTHER OR IN DIRECT COMMUNICATION AT ALL TIMES. THEY SHALL BE EQUIPPED WITH STOP/SLOW PADDLES FASTENED ON SUPPORT STAFFS. WHEN THE FLAGGING OPERATION IS NOT IN EFFECT, COVER OR REMOVE ALL TEMPORARY TRAFFIC CONTROL SIGNS.

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

TRAFFIC CONTROL FOR LANE CLOSURE (SUITABLE FOR MOVING OPERATIONS)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

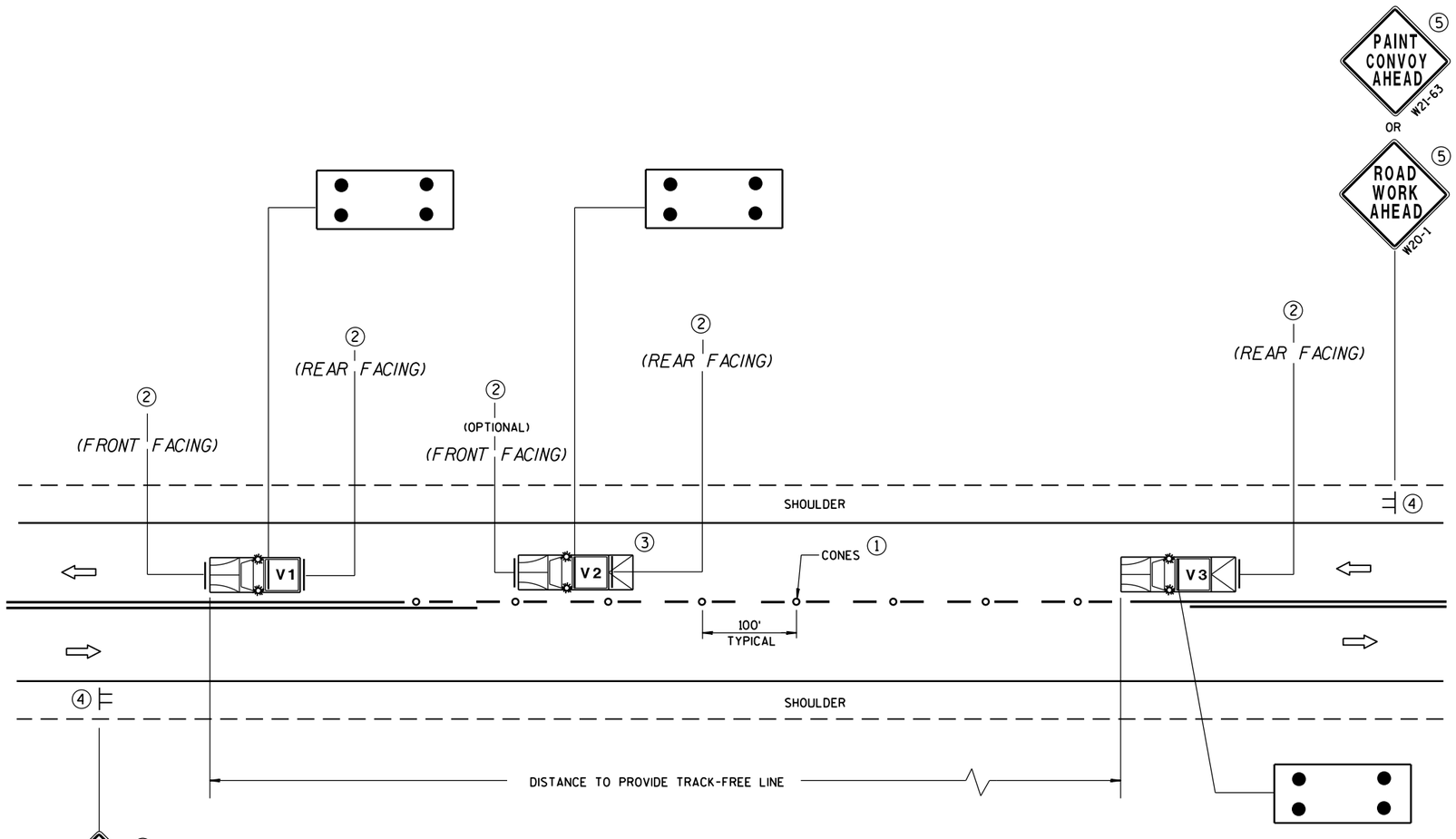
APPROVED
8/2013 — DATE
/S/ Travis Feltes — STATE TRAFFIC ENGINEER
FHWA

6

S.D.D. 15 C 12-4

6

S.D.D. 15 C 12-4



MOVING PAVEMENT MARKING OPERATIONS
TWO-LANE TWO-WAY ROADWAY

GENERAL NOTES

ALL VEHICLES SHALL BE EQUIPPED WITH TWO 360 DEGREE HIGH INTENSITY YELLOW FLASHING LIGHTS OR STROBE LIGHTS AND OPERATED WITH HEADLIGHTS TURNED ON.

VEHICLES SHALL BE EQUIPPED WITH REAR FACING TYPE B OR C FLASHING ARROW PANEL OPERATING IN CAUTION MODE. SIGNS PLACED ON VEHICLES MUST NOT OBSCURE THE ARROW PANEL.

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

IF SPEED LIMIT IS 40 MPH OR LESS STATIONARY SIGNS MAY BE OMITTED IF CONES ARE USED.

ALTERNATE SIGN MESSAGES, SUCH AS "PAINT CREW AHEAD" OR "ROAD PAINTING AHEAD" MAY BE USED.

DISTANCE BETWEEN VEHICLES MAY VARY ACCORDING TO TERRAIN, SIGHT DISTANCE, PAINT DRYING TIME, AND OTHER FACTORS. WHENEVER ADEQUATE STOPPING SIGHT DISTANCE EXISTS TO THE REAR, SHADOW VEHICLES SHOULD MAINTAIN THE MINIMUM DISTANCE FROM THE WORK VEHICLE AND PROCEED AT THE SAME SPEED AS THE WORK VEHICLE. SHADOW VEHICLES SHOULD SLOW DOWN IN ADVANCE OF VERTICAL OR HORIZONTAL CURVES THAT RESTRICT SIGHT DISTANCE.

THE WORK AND SHADOW VEHICLES SHOULD PULL OVER PERIODICALLY TO ALLOW TRAFFIC TO PASS.

THIS DRAWING SHALL BE USED FOR CENTERLINE OR EDGELINE MARKING.

WHEN NO WORK ACTIVITY IS TAKING PLACE, REMOVE OR TURN THE STATIONARY WARNING SIGNS AWAY FROM TRAFFIC.

(1) CONES MAY BE OMITTED ON PAINTED LINE IF APPROVED BY THE ENGINEER. CONSIDER PAVEMENT MARKING DRY OR CURE TIMES AND TRAFFIC VOLUME.

(2) USE STANDARD SIGN W21-64 WITH APPROPRIATE ARROW.

WET PAINT W21-64 OR WET PAINT W21-64

(3) OPTIONAL TRUCK-MOUNTED ATTENUATOR.

(4) SIGNS SHALL BE REPEATED APPROXIMATELY EVERY THREE MILES.

(5) IF CONSTRUCTION WORK ZONE SIGNS ARE IN PLACE, W20-1 OR W21-63 ARE NOT REQUIRED.

LEGEND

- **V1** LEAD VEHICLE
- **V2** SHADOW VEHICLE
- **V3** TRAIL VEHICLE WITH TMA
- **TMA** TRUCK-MOUNTED ATTENUATOR
- SIGN ON TEMPORARY SUPPORT
- DIRECTION OF TRAFFIC
- CONES
- FLASHING ARROW PANEL (CAUTION)

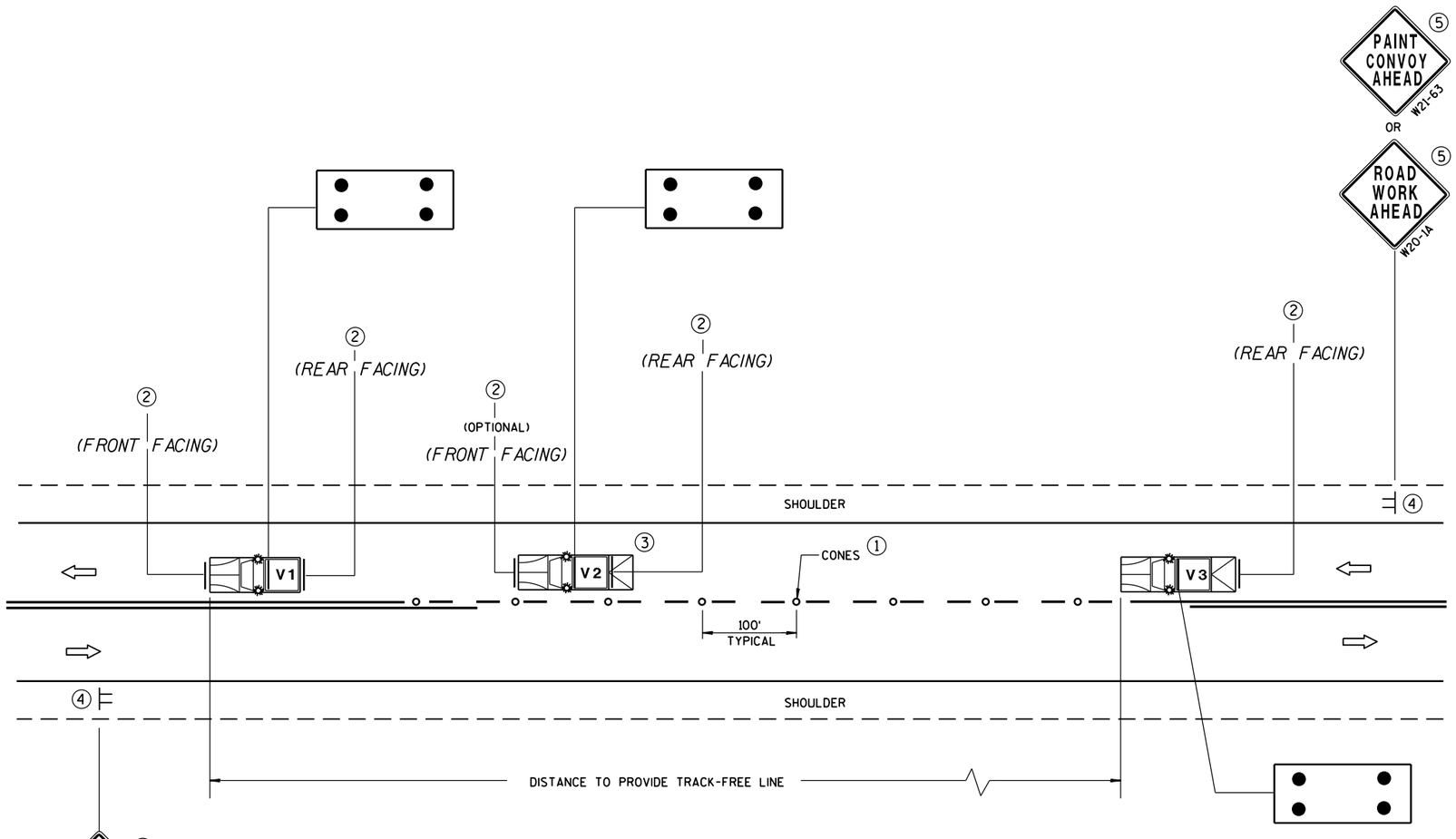
MOVING PAVEMENT MARKING OPERATION TWO-LANE TWO-WAY ROADWAY	
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION	
APPROVED 5/3/2013 DATE FHWA	/S/ Travis Feltes STATE TRAFFIC E

6

S.D.D. 15 C 19-2a

6

S.D.D. 15 C 19-2a



MOVING PAVEMENT MARKING OPERATIONS
TWO-LANE TWO-WAY ROADWAY

GENERAL NOTES

ALL VEHICLES SHALL BE EQUIPPED WITH TWO 360 DEGREE HIGH INTENSITY YELLOW FLASHING LIGHTS OR STROBE LIGHTS AND OPERATED WITH HEADLIGHTS TURNED ON.

VEHICLES SHALL BE EQUIPPED WITH REAR FACING TYPE B OR C FLASHING ARROW PANEL OPERATING IN CAUTION MODE. SIGNS PLACED ON VEHICLES MUST NOT OBSCURE THE ARROW PANEL.

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

IF SPEED LIMIT IS 40 MPH OR LESS STATIONARY SIGNS MAY BE OMITTED IF CONES ARE USED.

ALTERNATE SIGN MESSAGES, SUCH AS "PAINT CREW AHEAD" OR "ROAD PAINTING AHEAD" MAY BE USED.

DISTANCE BETWEEN VEHICLES MAY VARY ACCORDING TO TERRAIN, SIGHT DISTANCE, PAINT DRYING TIME, AND OTHER FACTORS. WHENEVER ADEQUATE STOPPING SIGHT DISTANCE EXISTS TO THE REAR, SHADOW VEHICLES SHOULD MAINTAIN THE MINIMUM DISTANCE FROM THE WORK VEHICLE AND PROCEED AT THE SAME SPEED AS THE WORK VEHICLE. SHADOW VEHICLES SHOULD SLOW DOWN IN ADVANCE OF VERTICAL OR HORIZONTAL CURVES THAT RESTRICT SIGHT DISTANCE.

THE WORK AND SHADOW VEHICLES SHOULD PULL OVER PERIODICALLY TO ALLOW TRAFFIC TO PASS.

THIS DRAWING SHALL BE USED FOR CENTERLINE OR EDGELINE MARKING.

WHEN NO WORK ACTIVITY IS TAKING PLACE, REMOVE OR TURN THE STATIONARY WARNING SIGNS AWAY FROM TRAFFIC.

(1) CONES MAY BE OMITTED ON PAINTED LINE IF APPROVED BY THE ENGINEER. CONSIDER PAVEMENT MARKING DRY OR CURE TIMES AND TRAFFIC VOLUME.

(2) USE STANDARD SIGN W21-64 WITH APPROPRIATE ARROW.

WET PAINT W21-64 OR WET PAINT W21-64

(3) OPTIONAL TRUCK-MOUNTED ATTENUATOR.

(4) SIGNS SHALL BE REPEATED APPROXIMATELY EVERY THREE MILES.

(5) IF CONSTRUCTION WORK ZONE SIGNS ARE IN PLACE, W20-1 OR W21-63 ARE NOT REQUIRED.

LEGEND

V1	LEAD VEHICLE
V2	SHADOW VEHICLE
V3	TRAIL VEHICLE WITH TMA
TMA	TRUCK-MOUNTED ATTENUATOR
⊨	SIGN ON TEMPORARY SUPPORT
⇨	DIRECTION OF TRAFFIC
o	CONES
⁘	FLASHING ARROW PANEL (CAUTION)

MOVING PAVEMENT MARKING OPERATION
TWO-LANE TWO-WAY ROADWAY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

/S/ Peter Amakobe Atepe
STATEWIDE WORK ZOI SAFETY ENGIN

DATE

FHWA

C

6

S.D.D. 15 C 19-3a

6

S.D.D. 15 C 19-3a

LEGEND

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

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 CLOSING RIGHT LANE - REVERSE FOR CLOSING 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.

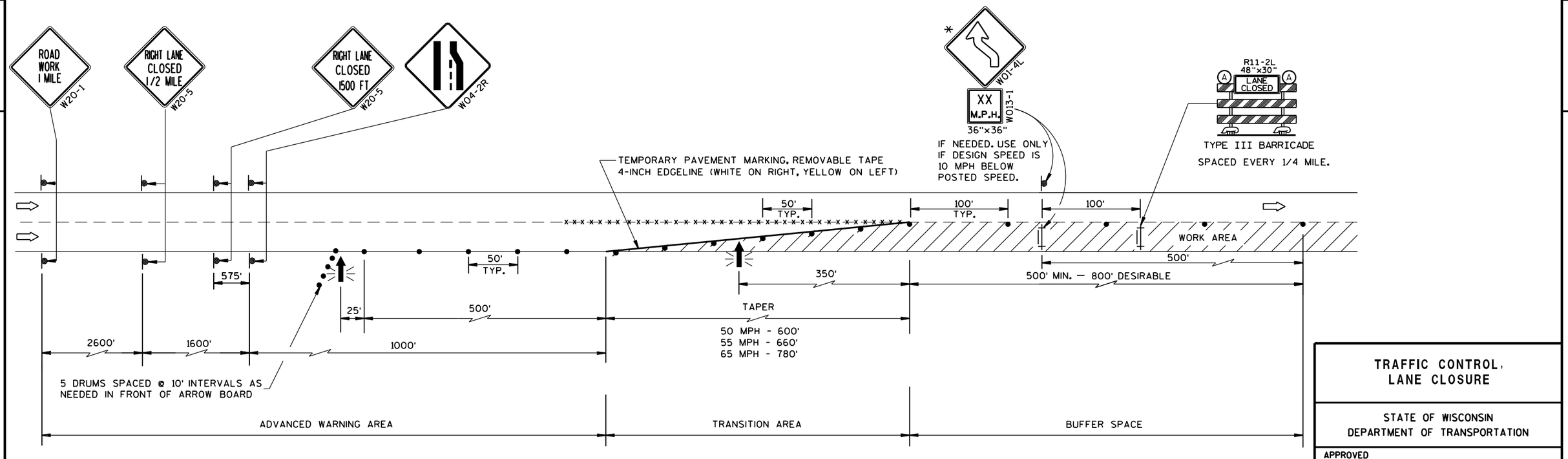
REMOVE PAVEMENT MARKINGS IF LANE CLOSURE IS TO BE IN PLACE FOR LONGER THAN 4 OR MORE DAYS AND NIGHTS.

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 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.

* THE LEFT REVERSE CURVE SIGN (WO1-4L) IS ONLY REQUIRED WHEN THIS DETAIL IS USED IN COMBINATION WITH "SINGLE LANE CROSSOVER" DETAIL.



TRAFFIC CONTROL, LANE CLOSURE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
Feb. 2015 — DATE
/S/ Travis Feltes — STATE TRAFFIC ENGINEER
FHWA

6

S.D.D. 15 D 12-5a

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.

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

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

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.

W20-1 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.

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

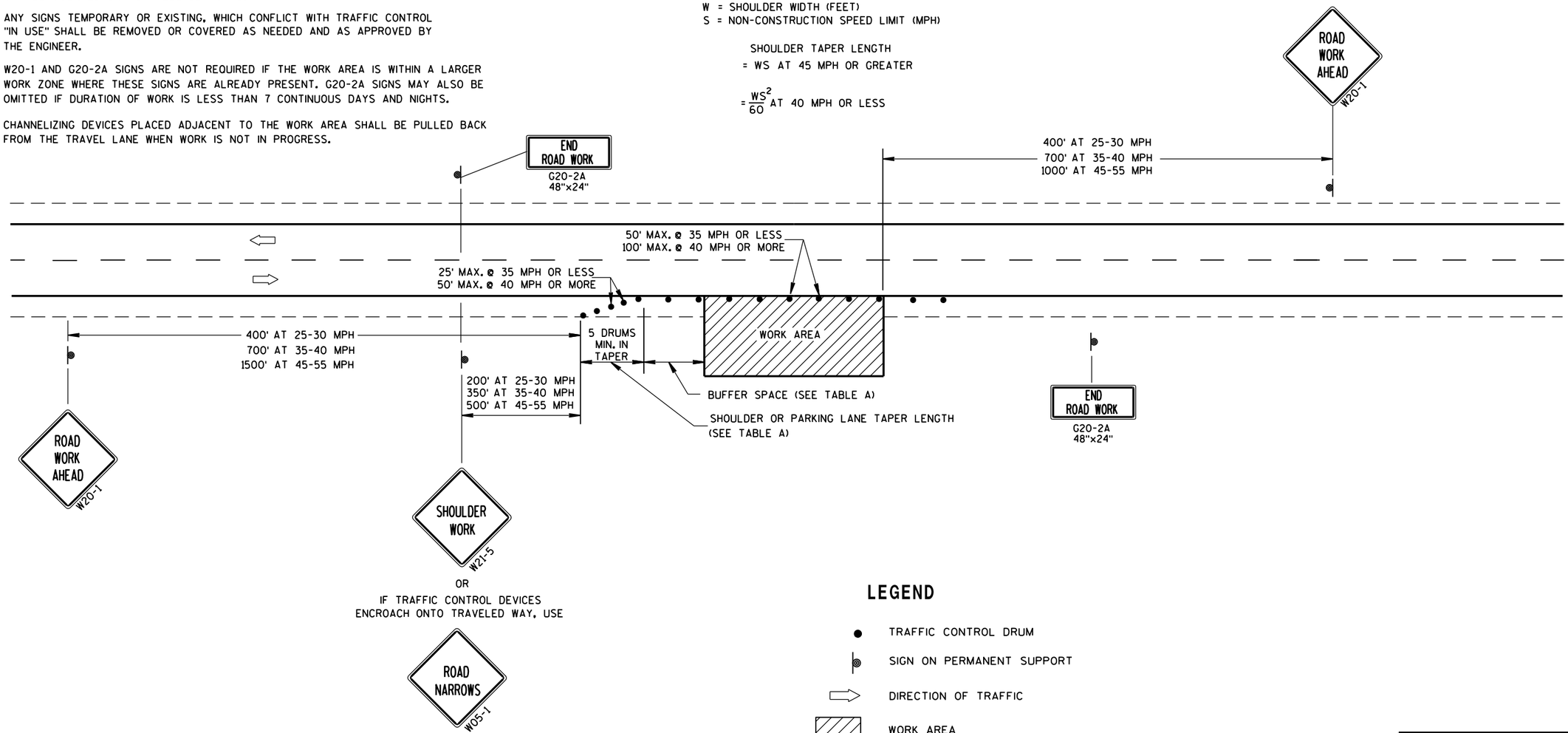
TABLE A

S \ W	SHOULDER TAPER LENGTH (FEET) 4	6	8	10	BUFFER SPACE (FEET)
30	20	30	40	50	85
35	30	45	55	70	120
40	40	55	75	90	170
45	60	90	120	150	220
50	70	100	135	170	280
55	75	110	150	185	335

W = SHOULDER WIDTH (FEET)
S = NON-CONSTRUCTION SPEED LIMIT (MPH)

SHOULDER TAPER LENGTH
= WS AT 45 MPH OR GREATER

$= \frac{WS^2}{60}$ AT 40 MPH OR LESS



LEGEND

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

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

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

8/2013 — DATE

/S/ Travis Feltes — STATE TRAFFIC ENGINEER

FHWA

6

S.D.D. 15 D 28-2

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.

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

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

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.

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.

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

TABLE A

S \ W	SHOULDER TAPER LENGTH (FEET) 4	6	8	10	BUFFER SPACE (FEET)
30	20	30	40	50	200
35	30	45	55	70	250
40	40	55	75	90	305
45	60	90	120	150	360
50	70	100	135	170	425
55	75	110	150	185	495

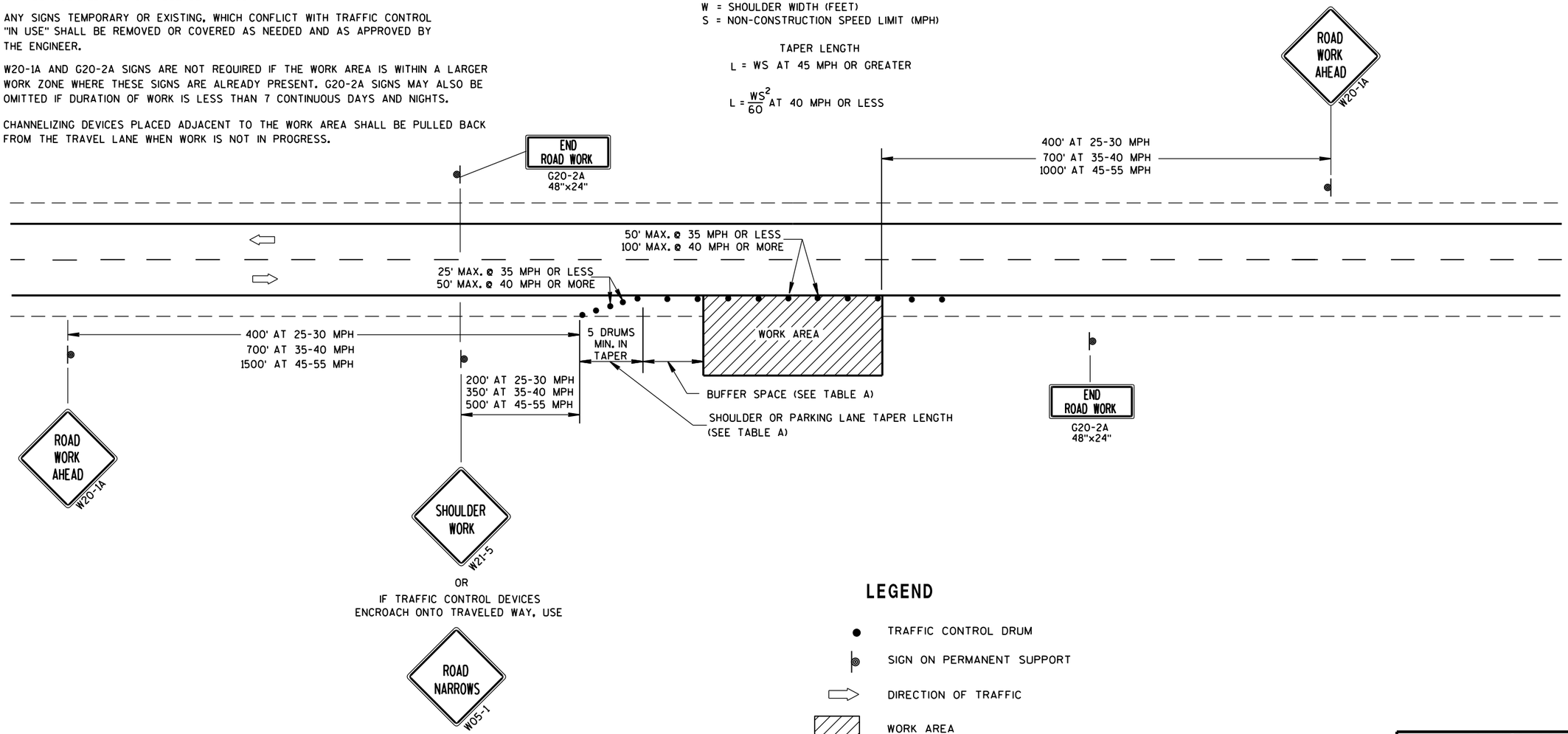
W = SHOULDER WIDTH (FEET)
S = NON-CONSTRUCTION SPEED LIMIT (MPH)

TAPER LENGTH

L = WS AT 45 MPH OR GREATER

$L = \frac{WS^2}{60}$ AT 40 MPH OR LESS

SHOULDER TAPER LENGTH = $\frac{1}{3}L$



LEGEND

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

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

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

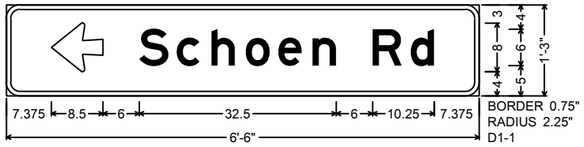
July 14, 2015 — DATE

/S/ Peter Amakobe Atepe — STATEWIDE WORK ZO SAFETY ENGI FIC

FHWA

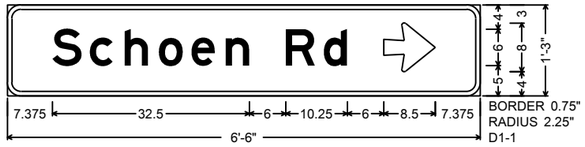
6

S.D.D. 15 D 28-3



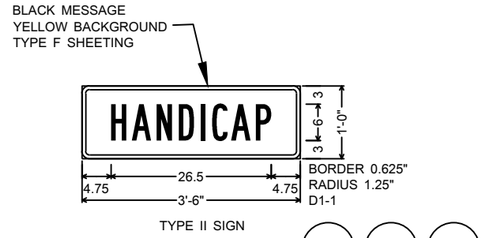
TYPE II SIGN

24



TYPE II SIGN

16



TYPE II SIGN

42 45 52 55 61 167

GENERAL NOTES:

1. DETAILS OF CONSTRUCTION, MATERIALS, AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS, THE SPECIAL PROVISIONS, AND THE PLANS.
2. UNLESS OTHERWISE NOTED, ALL SIGNS SHOWN ON THIS SHEET ARE "SIGNS, TYPE II".
3. UNLESS OTHERWISE NOTED, TYPE II SIGNS ON THIS SHEET SHALL HAVE "TYPE H REFLECTIVE SHEETING" AND "TYPE H MESSAGE MATERIAL". TYPE I SIGNS SHALL HAVE "TYPE SH REFLECTIVE SHEETING".
4. UNLESS OTHERWISE NOTED, ALL SIGNS SHOWN ON THIS SHEET SHALL HAVE A GREEN BACKGROUND AND WHITE MESSAGE.
5. TYPE II SIGNS ALL UPPERCASE MESSAGE (EXCEPT ON SHIELDS OR WHERE OTHERWISE NOTED) SHALL BE "SERIES E". ALL LOWERCASE MESSAGE WITH AN INITIAL UPPERCASE LETTER SHALL BE "SERIES E".
6. TYPE I SIGNS ALL UPPERCASE MESSAGE (EXCEPT ON SHIELDS OR WHERE OTHERWISE NOTED) SHALL BE "SERIES E MODIFIED". ALL LOWER CASE MESSAGE WITH AN INITIAL UPPERCASE LETTER SHALL BE "SERIES E MODIFIED". ALL CAP WORDS ARE "SERIES E".
7. UNLESS OTHERWISE NOTED, ALL SIGNS SHOWN ON THIS SHEET SHALL HAVE "TYPE A" OR "TYPE C" ARROWS AS SHOWN. SEE THE STANDARD SIGN PLATES FOR FURTHER DETAILS.
8. SEE THE STANDARD SIGN PLATES FOR FURTHER DETAILS ON ROUTE MARKER SHIELDS.
9. THE SIGN NUMBER IS DENOTED IN THE CIRCLE NEAR EACH DETAIL.
10. NUMBER FRACTIONS FOR INTERCHANGE SEQUENCE SIGNS SHALL BE "SERIES E" PER PLATES A11-7 AND A11-10.
11. DO NOT SCALE.

TYPE II SIGN

100 103

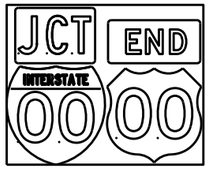
TYPE II SIGN

101

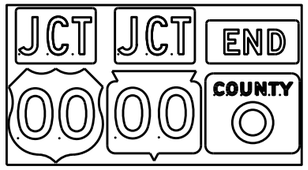
PROJECT NO:1320-20-60	HWY: STH 11	COUNTY: RACINE	SIGN DETAIL - TYPE II SIGNS	SHEET 128	E

TYPICAL ASSEMBLIES

J1-1

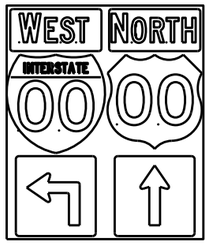


J1-2

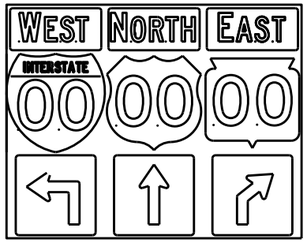


J1-3

J2-1



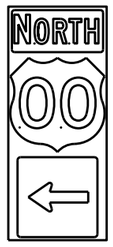
J2-2



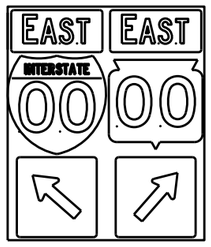
J2-3

JV

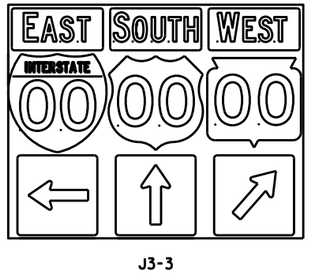
(Typical Vertical J-Assembly
See Note 10 and 11)



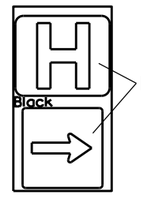
J3-1



J3-2

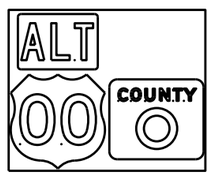


J3-3

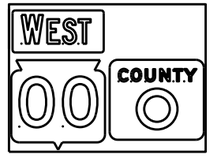


JH-1

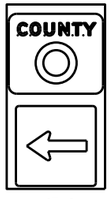
J4-1



J4-2



J4-2



J13-1

J12-1

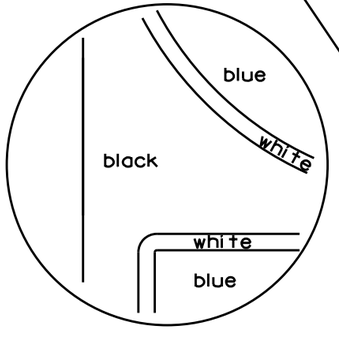
J32-1

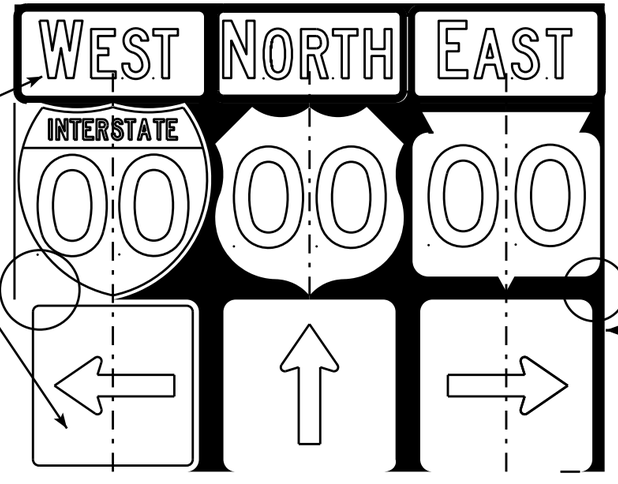
J33-1

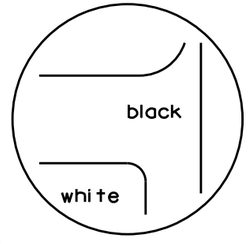
J23-1

J22-1

blue background
with interstate







black background

NOTES

1. Signs are Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Black Non-reflective
   Message - see Note 5
3. Message Series - See Note 5
4. Corners shall be square or rounded if base material is plywood. If base material is metal the corners shall be rounded.
5. The colors and message spacing on each marker shall be according to the applicable route marker panel specifications.
6. Certain marker heads require the component pieces to be the same color. As an example, all the components used with an M1-1 Interstate marker shall be blue.
7. Single panel j-assemblies shall only be used with route marker shields that are same size. If the route marker shields are different size use multiple piece component.
8. Route assemblies that have 24 inch route shields and have dimensions greater than 48 inches (both vertical and horizontal) shall have one horizontal splice between the arrows and route shields. Vertical splices shall not be used on route assemblies with a horizontal dimension of 144 inches or less. The contractor shall not use more than one vertical joint per sign and the joint shall be between route shields.
9. Route assemblies that have 36 inch shields and have dimensions greater than 48 inchs (both vertical and horizontal) shall have two horizontal splices. One horizontal splice shall be between the cardinal direction and route shields and the other horizontal splice shall be between the arrows and route shields. Vertical splices shall not be used on route assemblies with a horizontal dimension of 144 or less. The contractor shall not use more than one vertical joint per sign and the joint shall be between route shields.
10. All Vertical J Assemblies are given a Sign Code of JV
11. For JV Assemblies that have a mixture of Interstate and non Interstate shields, arrows and cardinals shall be white on blue.

ROUTE MARKERS & COMPONENTS
IN TYPICAL ASSEMBLIES

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

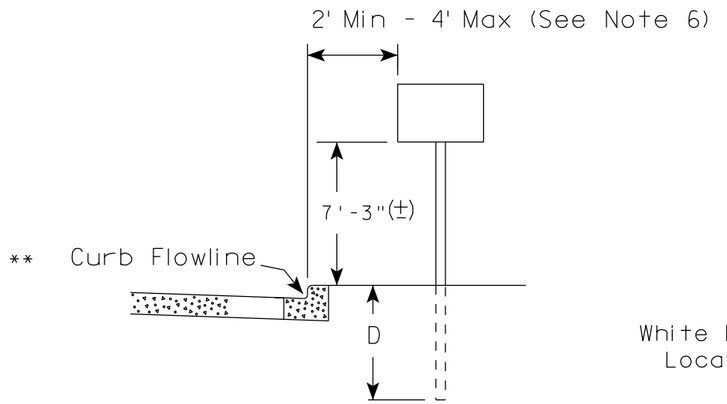
DATE 2/06/14 PL A2-1S.8

PROJECT NO: | SHEET NO: E

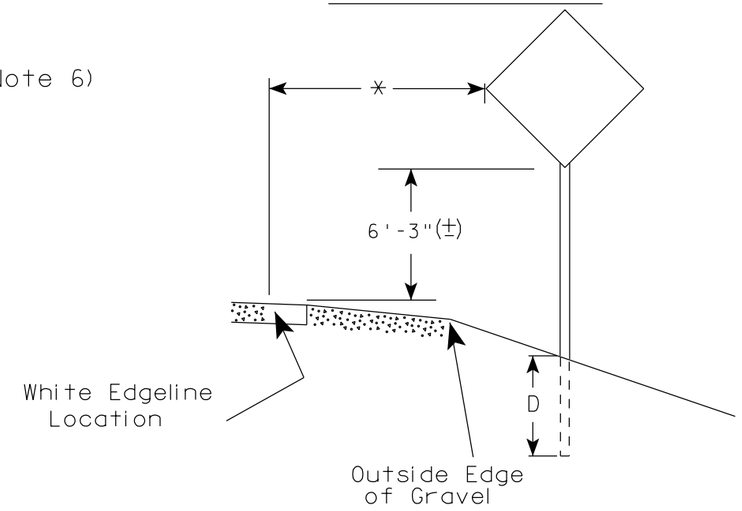
FILE NAME : C:\CAEFiles\Projects\tr_stdplate\A21S.DGN PLOT DATE : 06-FEB-2014 14:10 PLOT BY : mscsja PLOT NAME :

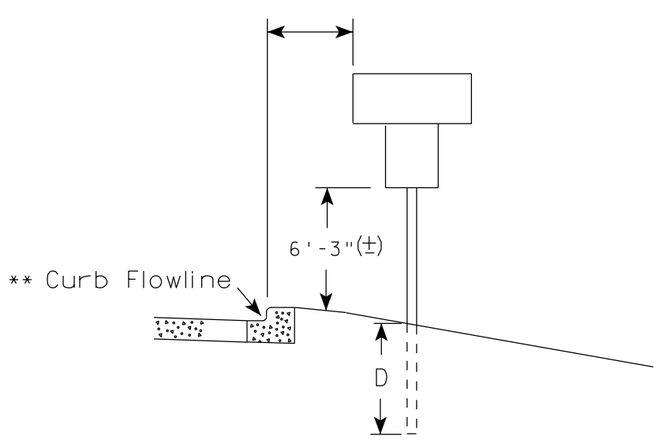
WISDOT/CADDS SHEET 42

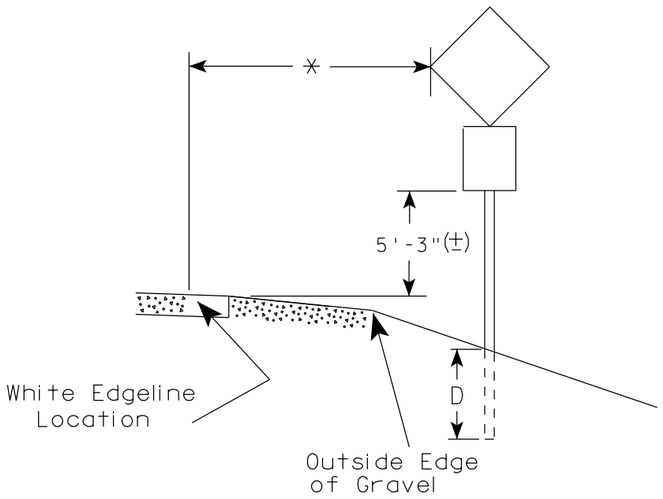
URBAN AREA



RURAL AREA (See Note 2)







** The existence of curb and gutter does not in itself mandate the vertical clearance illustrated. That height is typically measured where there is sidewalk adjacent to the roadway or parking is permitted. In the absence of sidewalk vertical clearance is measured from the top of the curb. Offset of signs is measured from the flow line.

* 6 feet from edge of a paved shoulder or 12 feet from the edge of pavement (edge line location) or 2 feet from outside edge of gravel, whichever is greater unless directed by project engineer.

POST EMBEDMENT DEPTH

Area of Sign Installation (Sq. Ft.)	D (Min)
20 or Less	4'
Greater than 20	5'

GENERAL NOTES

1. Signs wider than 4 feet or 20 sq.ft or larger, shall be mounted on multiple posts. Refer to plate A4-4.
2. If signs are mounted on barrier wall, see A4-10 sign plate.
3. For expressways and freeways, mounting height is 7'- 3" (±) or 6'-3" (±) depending upon existence of a sub-sign.
4. Minimum mounting height for J assemblies (A2-1S) is 7'-3" (±) or 6'-3" (±) per urban or rural detail respectively.
5. Minimum mounting height for signs mounted on traffic signal poles is 5'- 3" (±).
6. Offset distance shall be consistent with existing signs or consistent throughout length of project.
7. The (±) tolerance for mounting height is 3 inches.
8. Folding signs shall be mounted at a height of 5'-3" (±) or as directd by the Engineer.
9. The Double Arrow sign (W12-1) shall be mounted at a height of 2'-3" (±). The Chevron sign (W1-8), Roundabout Chevron panel (R6-4B), Enhanced Reference Markers, Clearance Markers (W5-52), Mile Markers (D10 series), In Road Object Markers (W5-54) & End of Road Markers (W5-56) shall be mounted at a height of 4'-3" (±).

TYPICAL INSTALLATION OF PERMANENT TYPE II SIGNS ON SINGLE POSTS

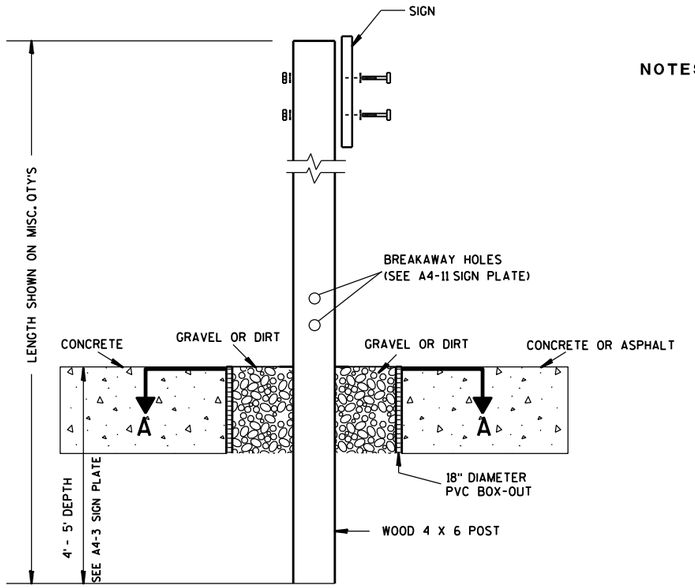
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 7/23/15 PLATE NO. A4-3.20

PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E

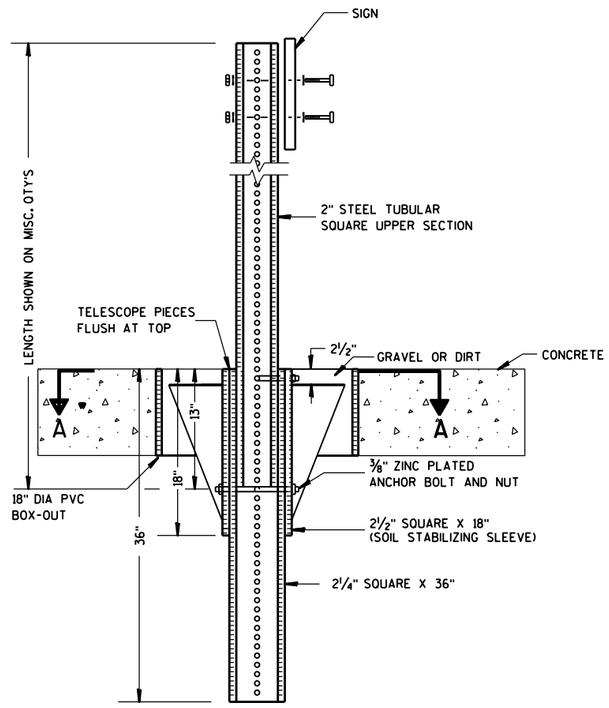
FILE NAME : C:\CAEfiles\Projects\tr_stdplate\A43.DGN PLOT DATE : 23-JUL-2015 15:21 PLOT BY : mscj9h PLOT NAME : PLOT SCALE : 99.237937:1.000000
WISDOT/CADDS SHEET 42



ELEVATION VIEW

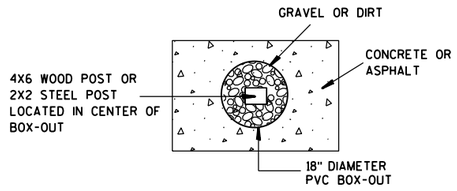
DETAIL OF WOOD 4 X 6 SIGN POST IN BOX-OUT

NOTES:
1. ALL MATERIAL TO BE APPROVED BY ENGINEER PRIOR TO INSTALLATION
2. SEE SIGN PLATE A4-8 FOR SIGN HARDWARE REQUIREMENTS
3. 18 INCH X 18 INCH SQUARE BOX-OUTS MAY BE USED FOR INSTALLATIONS IN EXISTING CONCRETE OR ASPHALT LOCATIONS.



ELEVATION VIEW

DETAIL OF STEEL 2 X 2 SIGN POST IN BOX-OUT



PLAN VIEW

FOR NEW CONCRETE/ASPHALT INSTALLATIONS

SIGN POST BOX-OUTS A4-3B

WISCONSIN DEPT OF TRANSPORTATION

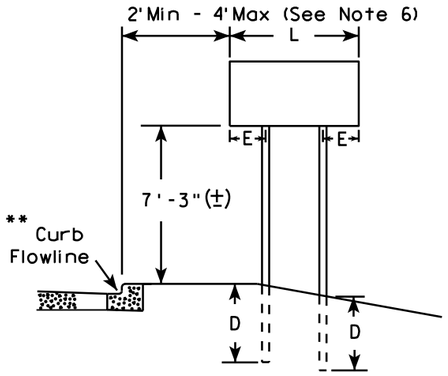
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 1/27/14 PLATE NO. A4-3B.1

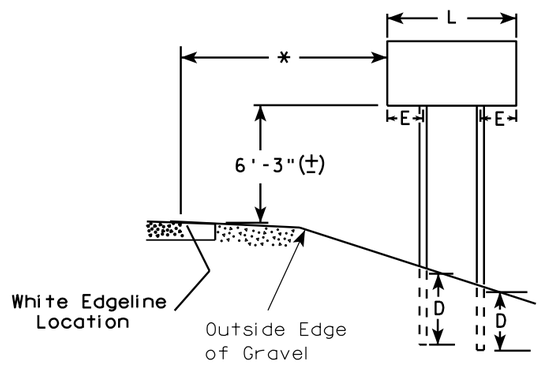
PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E

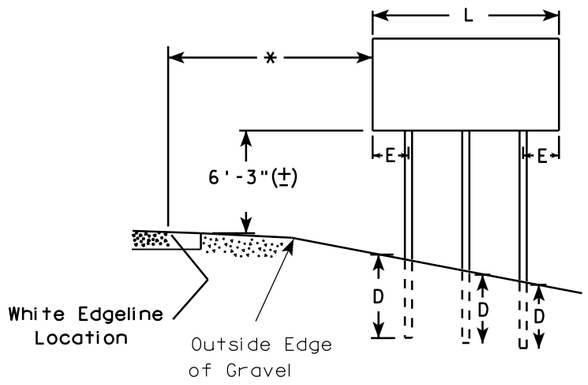
FILE NAME : C:\CAEFiles\Projects\tr_stdplate\A43B.DGN PLOT DATE : 27-JAN-2014 09:48 PLOT BY : mscsja PLOT NAME : PLOT SCALE : 13.659812:1.000000 WISDOT/CADDS SHEET 42

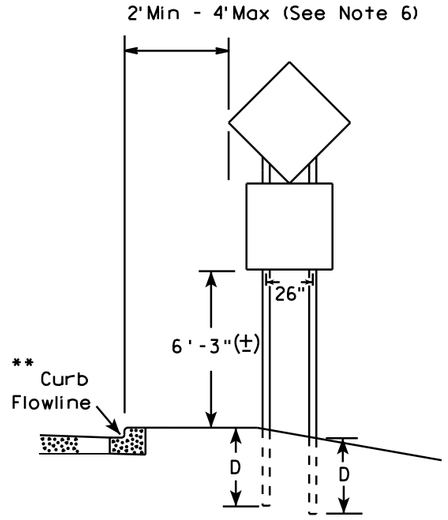
URBAN AREA



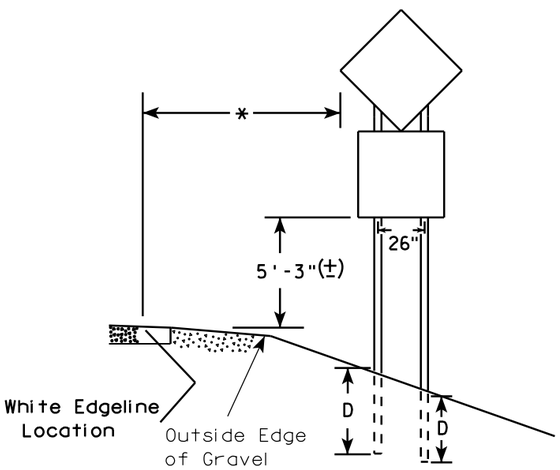
RURAL AREA (See Note 3)







48" DIAMOND WARNING SIGN



48" DIAMOND WARNING SIGN

GENERAL NOTES

1. For 3 or 4 post installations, individual post spacing shall be greater than 3'-6".
2. See tables below for required number of posts.
3. For expressways and freeways, mounting height is 7'-3" (±) or 6'-3" (±) depending upon existence of sub-sign.
4. The (±) tolerance for mounting height is 3 inches.
5. Minimum mounting height for J assemblies (A2-1S) is 7'-3" (±) or 6'-3" (±) per urban or rural detail respectively.
6. Offset distance shall be consistent with existing signs or consistent throughout length of project.
7. Folding signs shall be mounted at a height of 5'-3" (±) or as directed by the engineer.
8. The Double Arrow sign (W12-1) shall be mounted at a height of 2'-3" (±). The Chevron sign (W1-8), Roundabout Chevron panel (R6-4B), Clearance Markers (W5-52), Mile Markers (D10 series), In Road Object Markers (W5-54) & End of Road Markers (W5-56) shall be mounted at a height of 4"-3" (±).

* 6 feet from edge of a paved shoulder or 12 feet from the edge of pavement (edge line location) or 2 feet from outside edge of gravel, whichever is greater unless directed by project engineer.

** The existence of curb and gutter does not in itself mandate the vertical clearance illustrated. That height is typically measured where there is sidewalk adjacent to the roadway or parking is permitted. In the absence of sidewalk vertical clearance is measured from the top of the curb. Offset of signs is measured from the flow line.

*** See A4-3 sign plate for signs 4' or less in width and less than 20 S.F. in area.

SIGN SHAPE OTHER THAN DIAMOND (TWO POSTS REQUIRED)	
L	E
Greater than 48" Less than 60"	12"
60" to 120"	L/5

***

SIGN SHAPE OTHER THAN DIAMOND (THREE POSTS REQUIRED)	
L	E
Greater than 120" less than 168"	12"

SIGN SHAPE OTHER THAN DIAMOND (FOUR POSTS REQUIRED)	
L	E
168" and greater	12"

POST EMBEDMENT DEPTH

Area of Sign Installation (Sq. Ft.)	D (Min)
20 or Less	4'
Greater than 20	5'

TYPICAL INSTALLATION OF TYPE II SIGNS ON MULTIPLE POSTS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

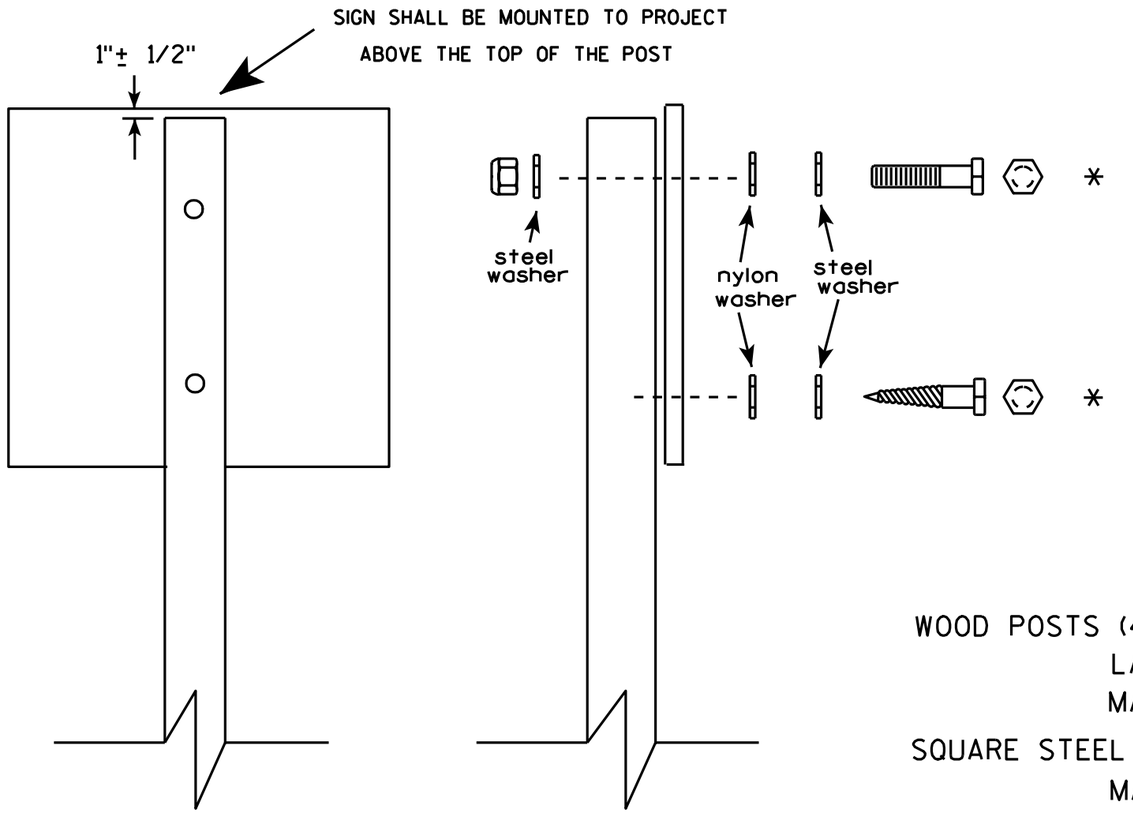
DATE 7/23/15 PLATE NO. A4-4 14

132

PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\A44.DGN PLOT DATE : 23-JUL-2015 15:23 PLOT BY : mscj9h PLOT NAME : PLOT SCALE : 107.021305:1.000000

WISDOT/CADDS SHEET 42



Nuts, bolts and lags used for mounting signs shall have hexagonal heads and shall be either :

a. Hot dip galvanized in accordance with ASTM Designation: A 153, Class D, or SC 3

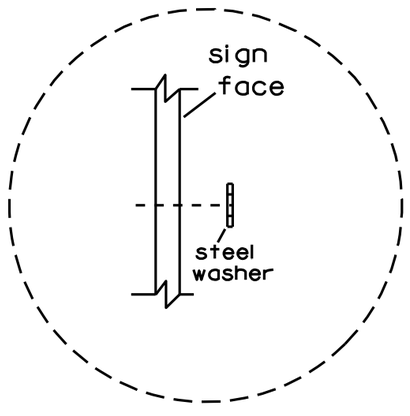
b. Electro-galvanized in accordance with ASTM Designation : B 633, TYPE III, SC 3.

Threads on bolts and nuts shall be manufactured with sufficient allowance for the cadmium plate or galvanized coating to permit the nuts to run freely on the bolts.

WOOD POSTS (4" x 4" or 4" x 6")
LAG SCREWS - 3/8" X 3"
MACHINE BOLTS - 5/16" X 6-1/2" or 7" Length w/ nuts

SQUARE STEEL POSTS (2" x 2")
MACHINE BOLTS - 3/8" X 3-1/4" Length w/ nuts
RIVETS - 9/32 " (6605-9-6) BULB-TITE, TRI-FOLD, ALUMINUM BODY/MANDREL
O.D. FLANGE .720-.765 INCH, GRIP RANGE .042-.375 INCH

WASHERS (ALL POSTS) -
1-1/4" O.D. X 3/8" I.D. X 1/16" STEEL
1-1/4" O.D. X 3/8" I.D. X .080 NYLON for all Type H signs.



Washer Placement when Sign Has Other Than Type H or Type F Face

* Two different fastening systems are shown for illustration purposes. On any individual sign, either one or the other system shall be used. Actual number of fasteners per sign varies with the sign area, but normally there are two. For a single post installation, all signs greater than 9 sq. ft. require the use of 3 fasteners.

ATTACHMENT OF SIGNS TO POSTS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

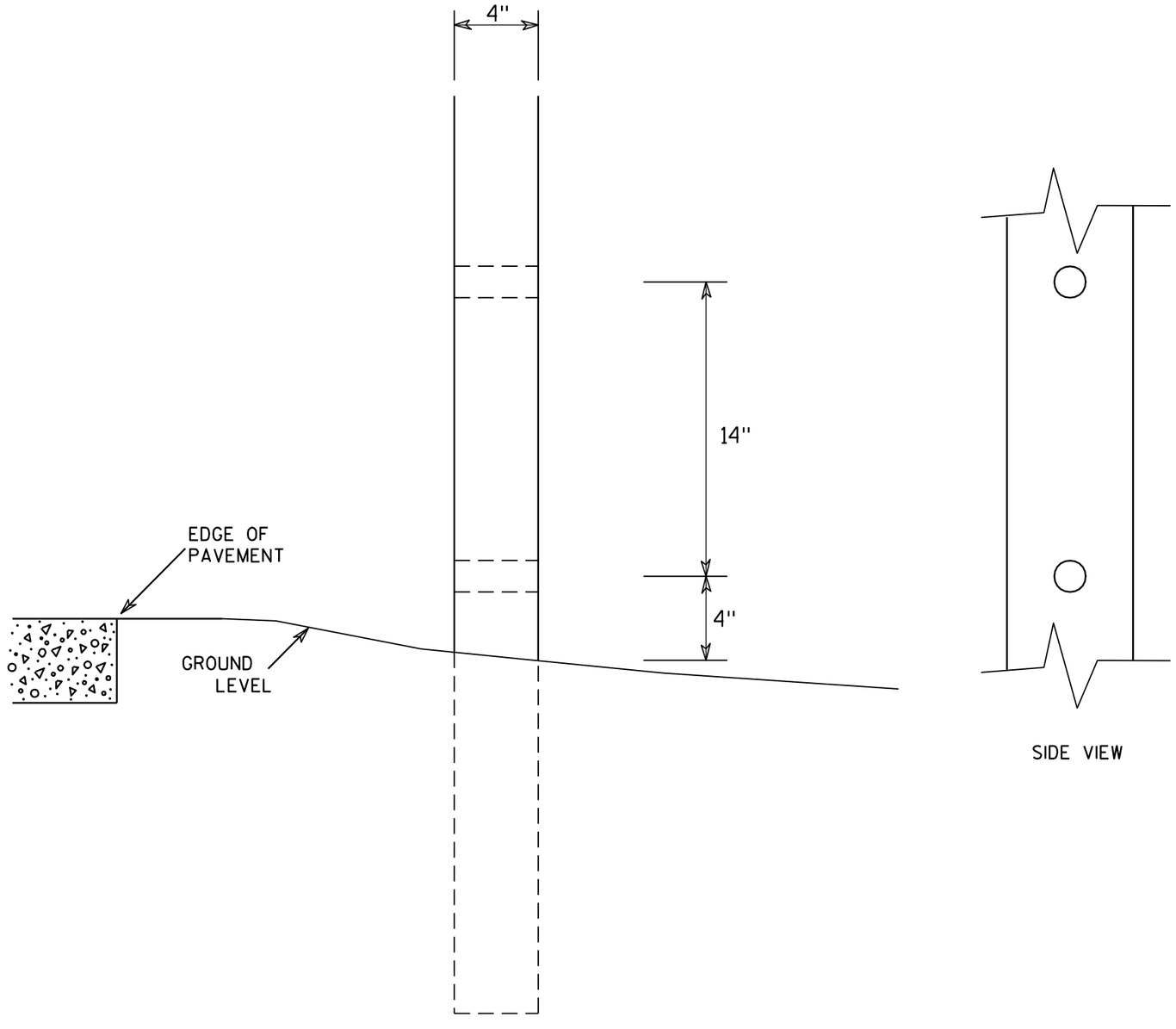
DATE 3/23/10 PLATE NO. A4-8.7

7

7

PROJECT NO:

SHEET NO: 133 E



SIDE VIEW

GENERAL NOTES

1. All 4 x 6 Wood Posts shall be modified by having two 1½" diameter holes drilled perpendicular to the roadway centerline.

7

7

4 X 6 WOOD POST MODIFICATIONS

WISCONSIN DEPT OF TRANSPORTATION

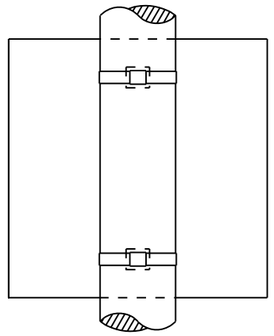
APPROVED Chester J Spang for State Traffic Engineer

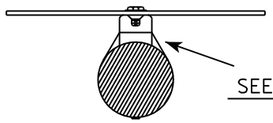
DATE 3/27/97 PLATE NO. A4-11.2

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 134	E

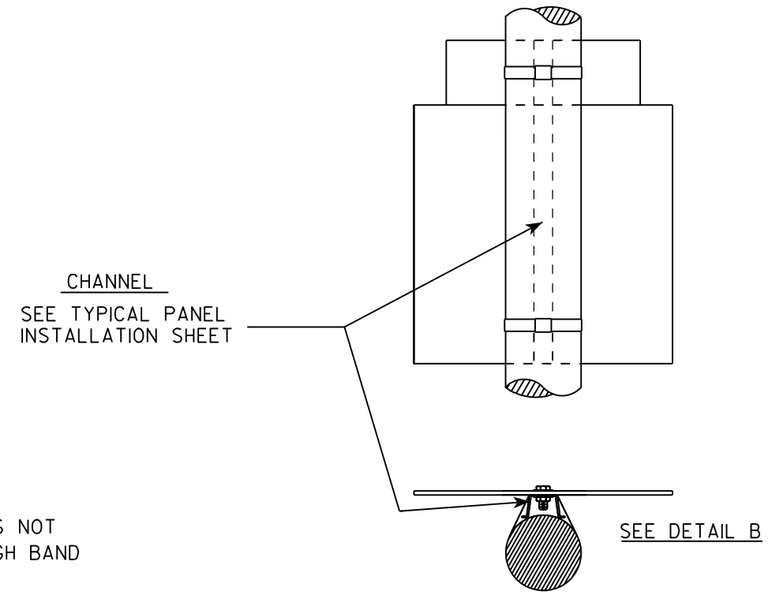
BANDING

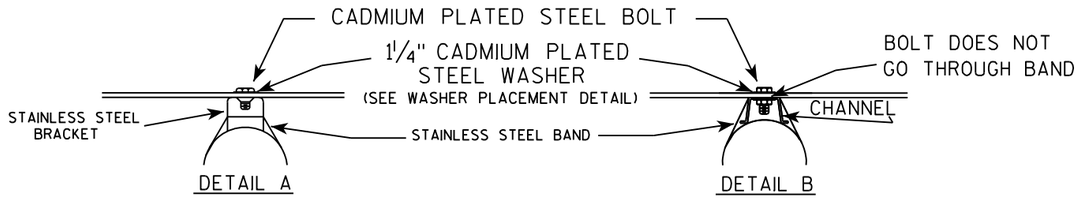
SINGLE SIGN



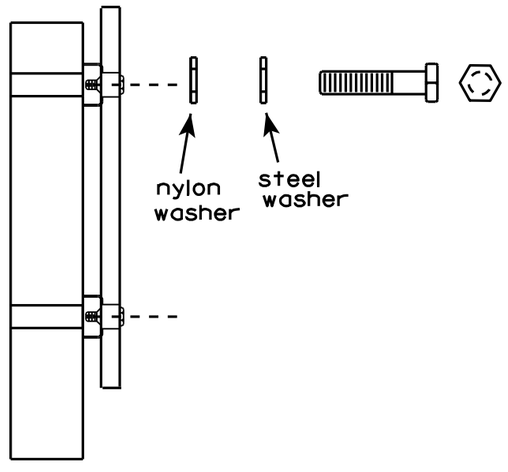


"J" ASSEMBLY





WASHER PLACEMENT



WASHERS (ALL POSTS) -
1-1/4" O.D. X 3/8" I.D. X 1/16" STEEL
1-1/4" O.D. X 3/8" I.D. X .080 NYLON
FOR ALL TYPE H SIGNS

GENERAL NOTES

1. Any sign over 3 feet in width shall use the V-Block banding method. See A5-10 standard plate.
2. Signs 3 feet or greater in height shall have three bracket bands installed. Signs less than 3 feet in height shall have two bracket bands installed.
3. Banding and assembly bracket shall be stainless steel. All bands shall be ¾" in width and 0.025" thickness.

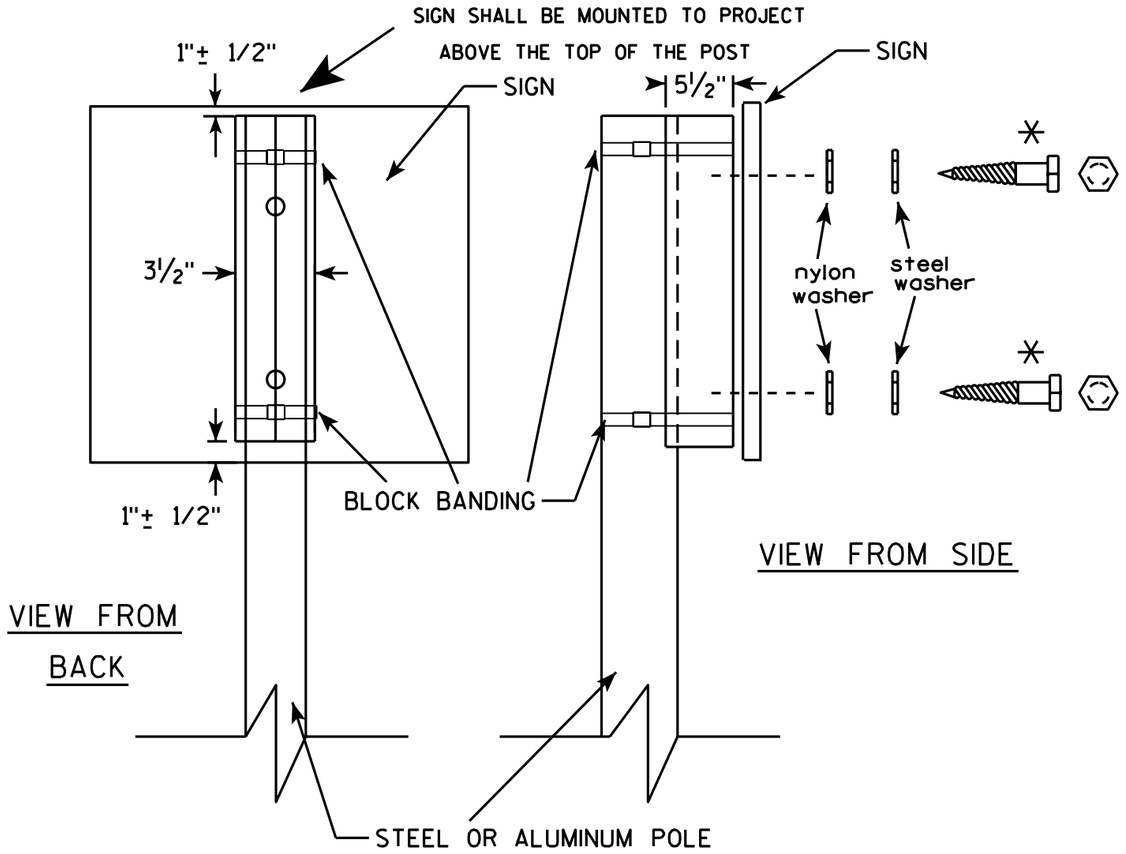
STANDARD SIGN
SIGN BANDING DETAILS

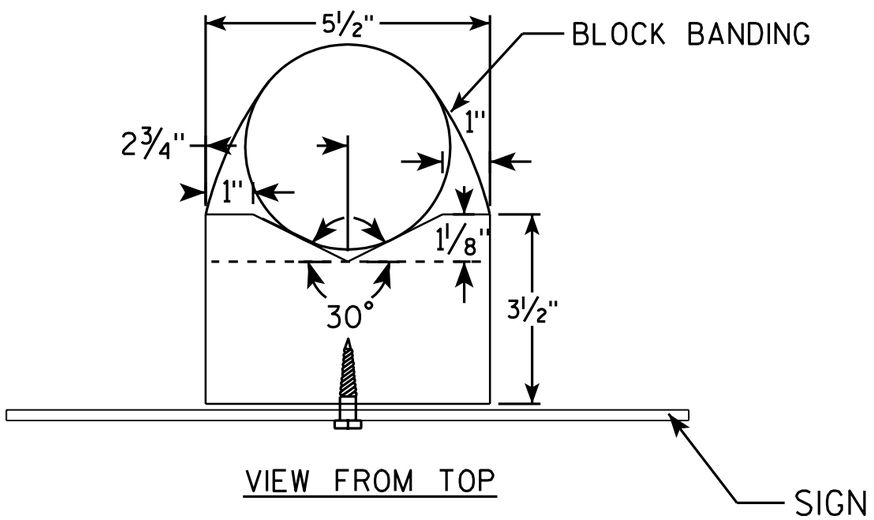
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 8/16/13 PLATE NO. A5-9.3

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 135	E





GENERAL NOTES

1. WOOD 4"X6" POST MATERIAL SHALL CONFORM TO 507.2.2 OF THE WisDOT STANDARD SPECIFICATIONS
2. BLOCK BANDING AND CLIPS SHALL BE STAINLESS STEEL, ¾" WIDTH AND 0.025" THICKNESS
3. SIGNS 3' OR GREATER IN HEIGHT SHALL UTILIZE 3 BLOCK BANDS. SIGNS UNDER 3' IN HEIGHT SHALL UTILIZE 2 BLOCK BANDS
4. ACTUAL NUMBER OF FASTENERS PER SIGN VARIES WITH THE SIGN AREA, BUT NORNALLY THERE ARE TWO. FOR SIGNS GREATER THAN 9 S.F. 3 FASTENERS SHALL BE USED.
5. ALL SIGN MOUNTING BOLTS AND WASHERS SHALL BE EITHER:
   a. Hot dip or mechanically galvanized in accordance with ASTM Designation: A 153, Class D, or
   b. Cadmium plated in accordance with ASTM Designation : B 766 TYPE 3, Class 12, or
   c. Electro-galvanized in accordance with ASTM Designation : B 633, TYPE III, SC 3.
6. ALL BOLTS SHALL HAVE HEXAGONAL HEADS.
7. STEEL WASHERS SHALL BE 1¼" O.D. X ⅜" I.D. X 1/16"
8. NYLON WASHERS SHALL BE 1¼" O.D. X ⅜" I.D. X .080 FOR TYPE H OR TYPE F FACE SIGN

✳ LAG BOLTS SHALL BE ⅜" X 2½"

BLOCK BANDING DETAIL (V-BLOCK OPTION)

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

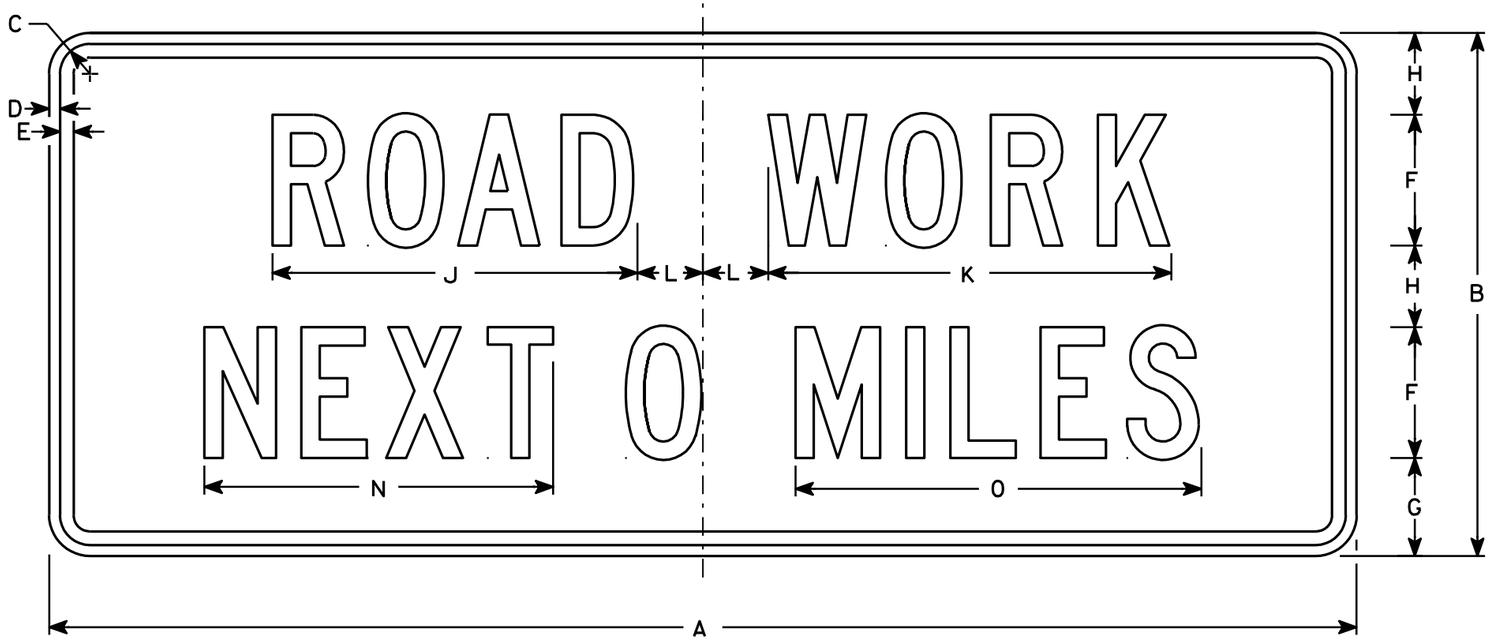
DATE 7/12/07 PLATE NO. A5-10.1

PROJECT NO:

SHEET NO: 136 E

FILE NAME : C:\Users\Projects\tr_stdplate\A510.dgn PLOT DATE : 06-AUG-2007 13:37 PLOT BY : ditjph

WISDOT/CADDS SHEET 42



G20-1

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Orange
   Message - Black
3. Message Series - C
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. Substitute appropriate numerals and optically adjust spacing to achieve proper balance

Metric equivalent for this sign is:

SIZE	
1	
2	1500 mm X 600 mm
3	
4	1500 mm X 600 mm
5	

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.	Area m2
1																												
2	60	24	1 3/8	1/2	5/8	6	4 1/2	3 3/4		16 3/4	18 1/2	3		16	18 5/8												10	.90
3																												
4	60	24	1 3/8	1/2	5/8	6	4 1/2	3 3/4		16 3/4	18 1/2	3		16	18 5/8												10	.90
5																												

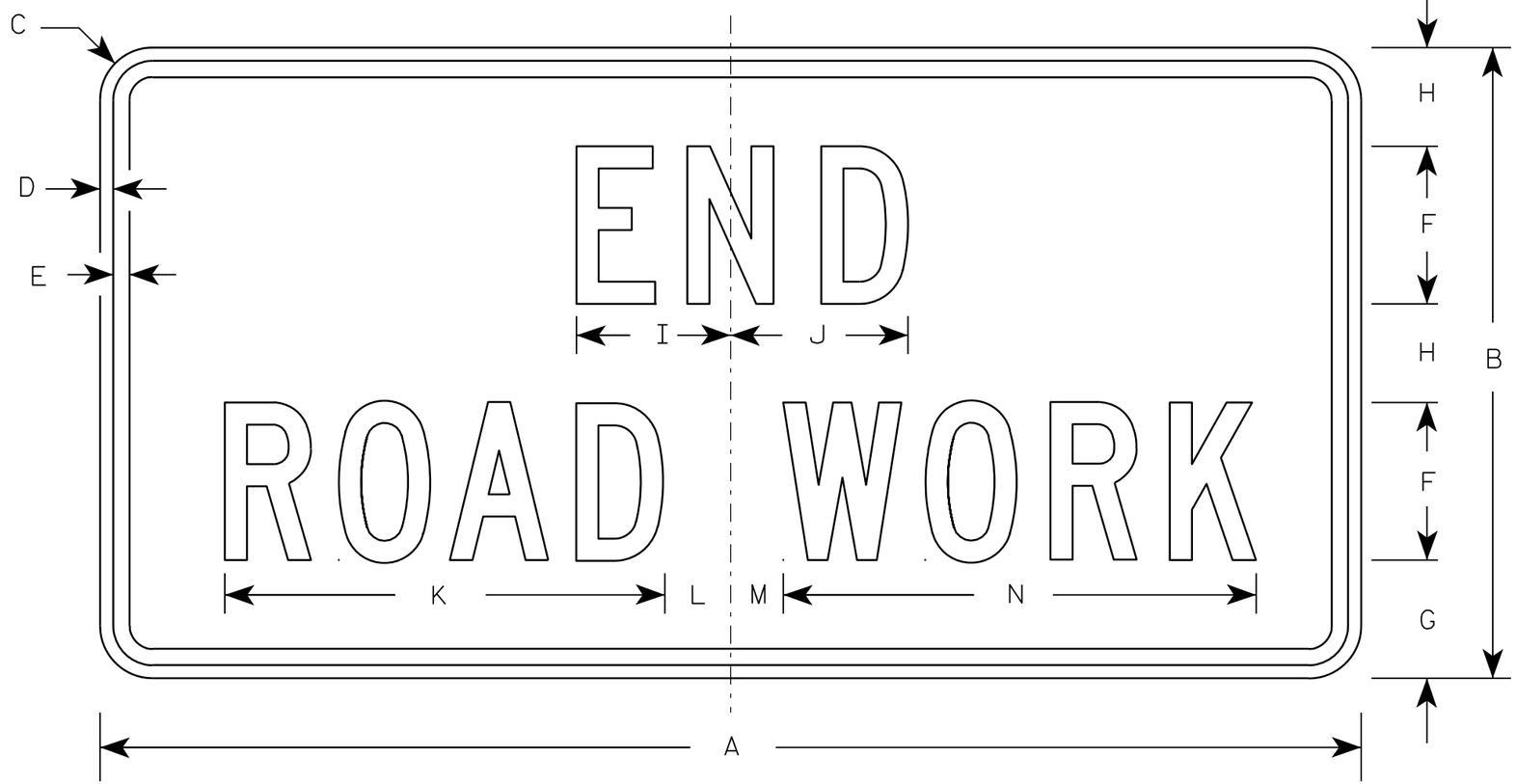
STANDARD SIGN
G20-1

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Chester J Spray for State Traffic Engineer

DATE 4/8/97 PLATE NO. G20-1.7

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 137	E



G20-2A

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Orange
   Message - Black
3. Message Series - C
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.

Metric equivalent for this sign is:

SIZE	
1	900 mm X 450 mm
2	1200 mm X 600 mm
3	1200 mm X 600 mm
4	1200 mm X 600 mm
5	1200 mm X 600 mm

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.	Area m2
1	36	18	1 1/8	3/8	1/2	4	3 3/4	2 1/2	4 1/8	4 1/8	11 1/8	2	1	12 1/8													4.5	0.41
2	48	24	1 1/2	1/2	5/8	6	4 1/2	3 3/4	5 7/8	6 3/4	16 3/4	2 1/2	1 3/4	18 1/2													8.0	0.72
3	48	24	1 1/2	1/2	5/8	6	4 1/2	3 3/4	5 7/8	6 3/4	16 3/4	2 1/2	1 3/4	18 1/2													8.0	0.72
4	48	24	1 1/2	1/2	5/8	6	4 1/2	3 3/4	5 7/8	6 3/4	16 3/4	2 1/2	1 3/4	18 1/2													8.0	0.72
5	48	24	1 1/2	1/2	5/8	6	4 1/2	3 3/4	5 7/8	6 3/4	16 3/4	2 1/2	1 3/4	18 1/2													8.0	0.72

STANDARD SIGN
G20-2A

WISCONSIN DEPT OF TRANSPORTATION

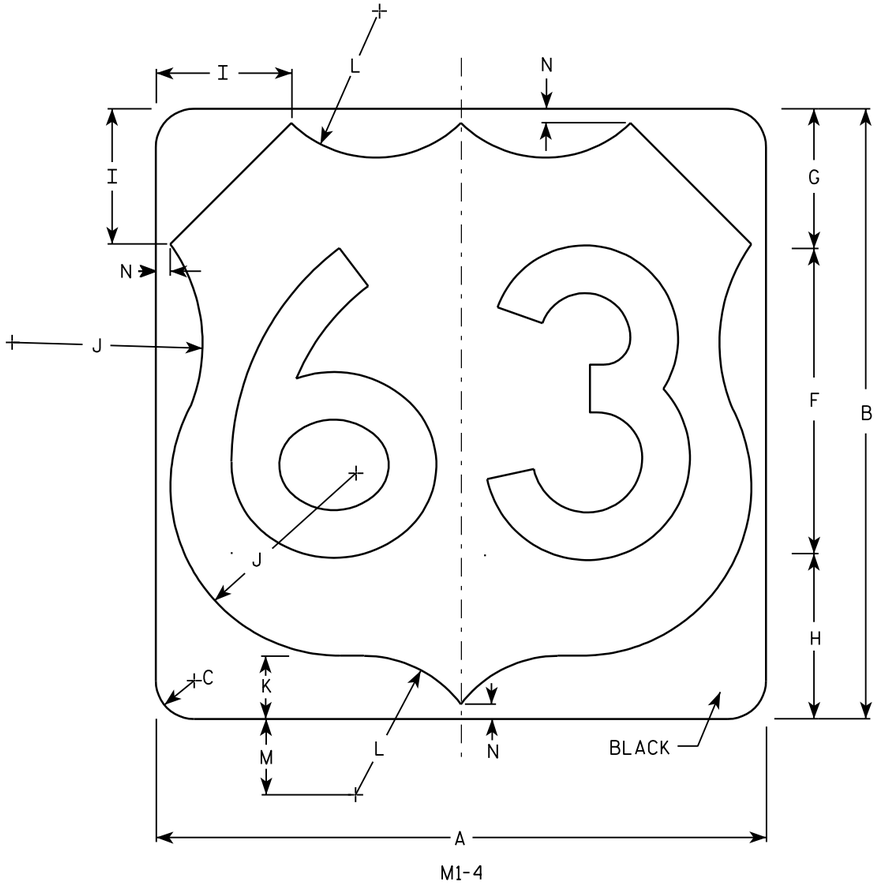
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 9/30/09 PLATE NO. G20-2A.8

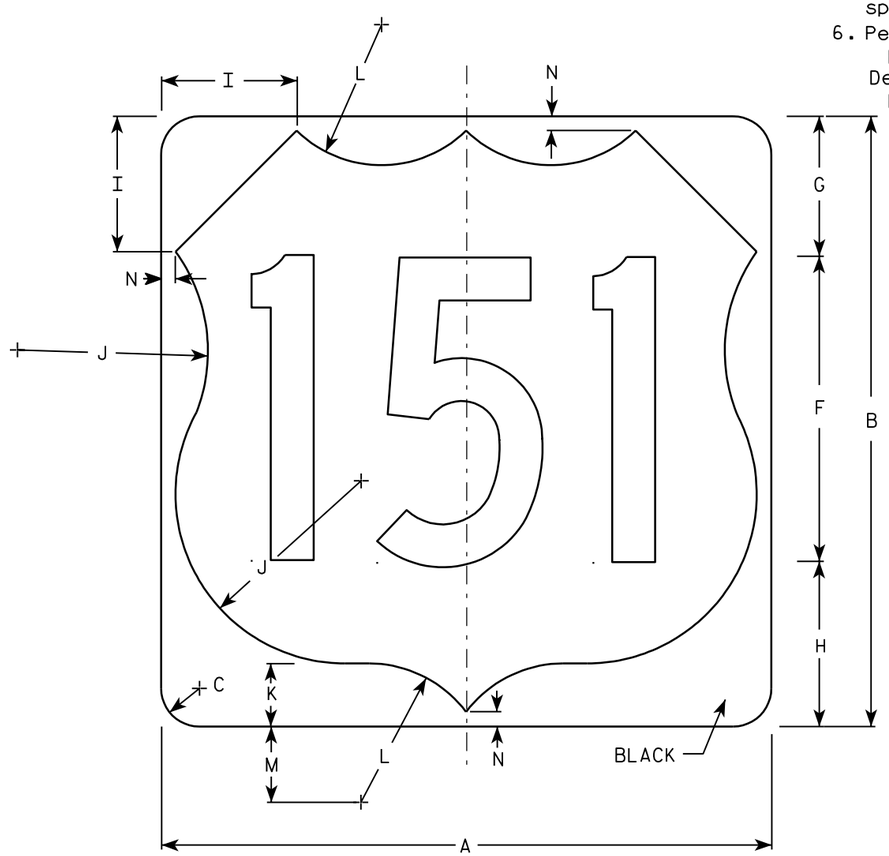
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 138	E

NOTES

1. Sign is Type II - See Note 6 - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - White & Black - See Note 6
   Message - Black
3. Message Series - See note 5
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. Substitute appropriate numerals and adjust spacing as per Plate A10-1.
6. Permanent Signs
   Background - Type H Reflective
   Detour or other temporary signs
   Background - Reflective



M1-4



M1-4

Metric equivalent for this sign is:

SIZE	
1	
2	600 mm X 600 mm
3	900 mm X 900 mm
4	900 mm X 900 mm
5	900 mm X 900 mm

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.	Area m2
1																												
2	24	24	1 1/2			12	5 1/2	6 1/2	5	7 1/2	2 1/2	5 1/2	3	1/2													4.0	.36
3	36	36	2 1/4			18	8 1/4	9 1/4	7 1/4	11 1/4	3 3/4	8 1/4	4 1/2	3/4													9.0	.81
4	36	36	2 1/4			18	8 1/4	9 1/4	7 1/4	11 1/4	3 3/4	8 1/4	4 1/2	3/4													9.0	.81
5	36	36	2 1/4			18	8 1/4	9 1/4	7 1/4	11 1/4	3 3/4	8 1/4	4 1/2	3/4													9.0	.81

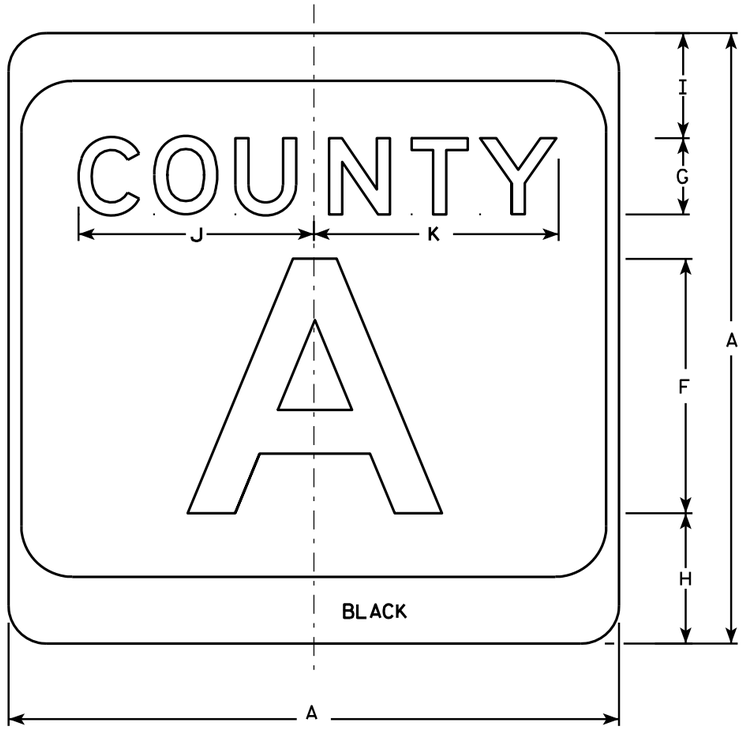
USH MARKER
M1-4 FOR ASSEMBLIES

WISCONSIN DEPT OF TRANSPORTATION

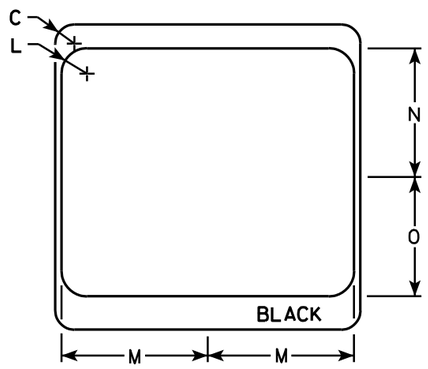
APPROVED Matthew R Rauch
for State Traffic Engineer

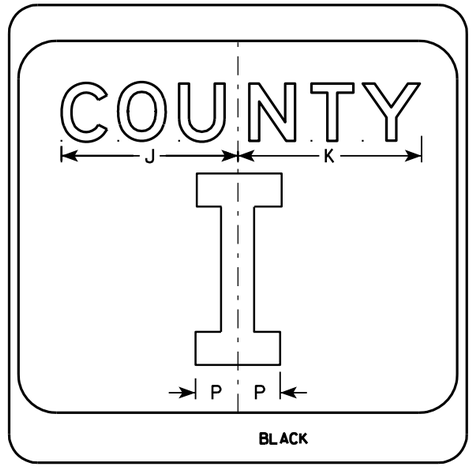
DATE 08/25/05 PLATE NO. M1-4.9

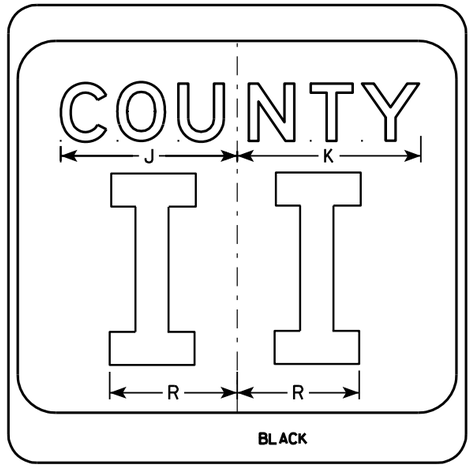
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 139 | E



M1-5A







NOTES

1. Sign is Type II - see Note 7 - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - White & Black - See Note 7
   Message - Black
3. Message Series - see Note 5
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. Message Series E for 1 letter.
   Message Series D for 2 letters unless message is too big then Series C.
   Message Series C for 3 letters unless message is too big then Series B.
6. Substitute appropriate letters & optically center to achieve proper balance.
7. Permanent Signs
   Background - Type H Reflective
   Detour or temporary Signs
   Background - Reflective

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	24		1 1/2			10	3	5 1/8	4 1/8	9 1/4	9 5/8	2	11 1/2	10 1/8	9 3/8	2 1/4		6 5/8									4.0
3	36		2 1/4			16	4	7 5/8	5 5/8	12 1/4	12 7/8	3	17 1/8	15 1/4	14	3 3/8		10									9.0
4	36		2 1/4			16	4	7 5/8	5 5/8	12 1/4	12 7/8	3	17 1/8	15 1/4	14	3 3/8		10									9.0
5	36		2 1/4			16	4	7 5/8	5 5/8	12 1/4	12 7/8	3	17 1/8	15 1/4	14	3 3/8		10									9.0

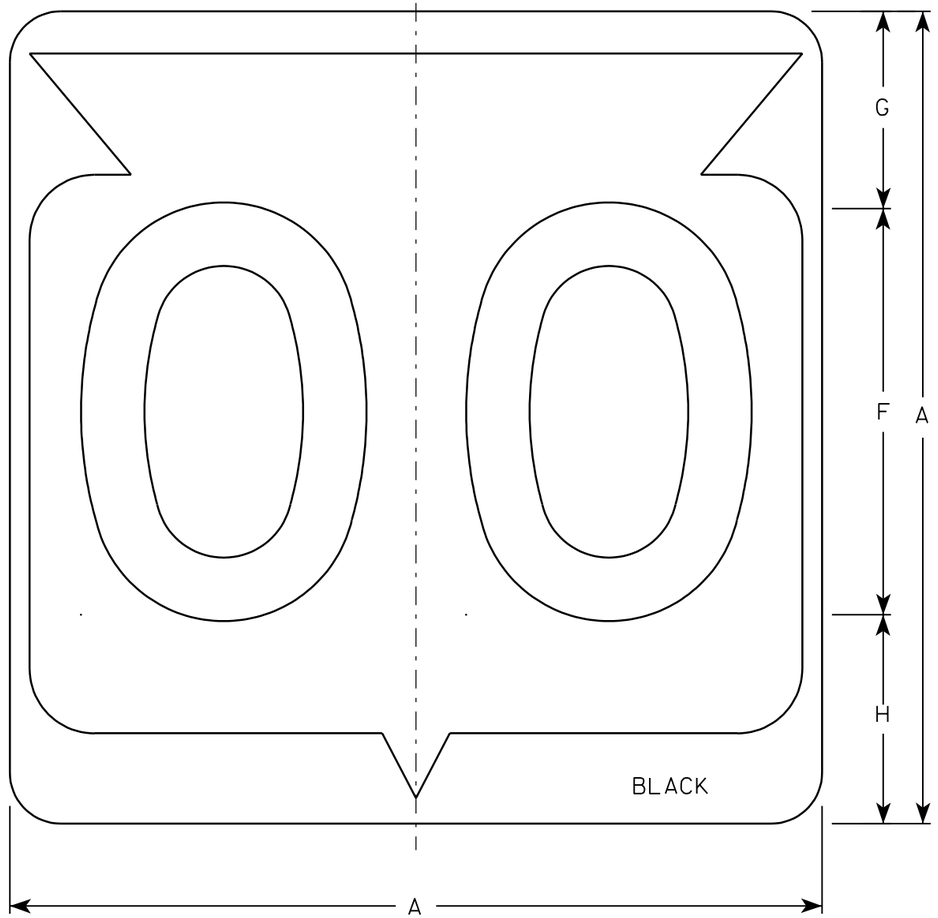
CTH MARKER
M1-5A FOR ASSEMBLIES

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 9/27/11 PLATE NO. M1-5A.8

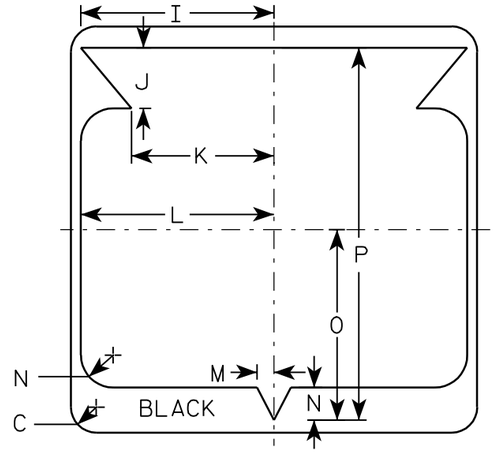
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 140 | E



M1-6

NOTES

1. Sign is Type II - See Note 6 - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - White & Black - See Note 6
   Message - Black
3. Message Series - See note 5
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. Substitute appropriate Series numerals and adjust spacing as per plate A10-1.
6. Permanent Signs
   Background - Type H Reflective
   Detour or temporary Signs
   Background - Reflective



Metric equivalent for this sign is:

SIZE	
1	
2	600 mm X 600 mm
3	900 mm X 900 mm
4	900 mm X 900 mm
5	900 mm X 900 mm

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.	Area m2
1																												
2	24		1 1/2			12	5 1/2	6 1/2	10 1/4	2 1/2	8 7/8	11 1/2	1	1 7/8	11 1/4	21 7/8											4.0	.36
3	36		2 1/4			18	8 3/4	9 1/4	15 3/8	5 3/8	12 5/8	17 1/8	1 1/2	2 7/8	16 7/8	33											9.0	.81
4	36		2 1/4			18	8 3/4	9 1/4	15 3/8	5 3/8	12 5/8	17 1/8	1 1/2	2 7/8	16 7/8	33											9.0	.81
5	36		2 1/4			18	8 3/4	9 1/4	15 3/8	5 3/8	12 5/8	17 1/8	1 1/2	2 7/8	16 7/8	33											9.0	.81

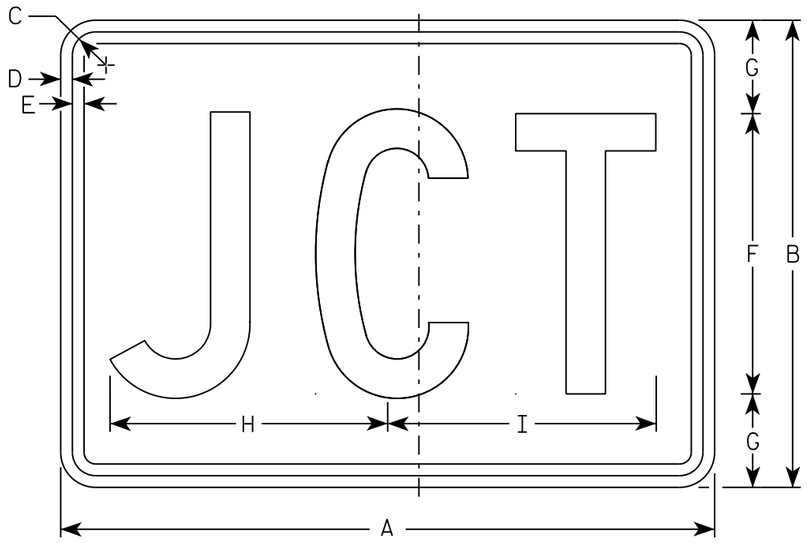
STATE ROUTE MARKER M1-6 FOR ASSEMBLIES

WISCONSIN DEPT OF TRANSPORTATION

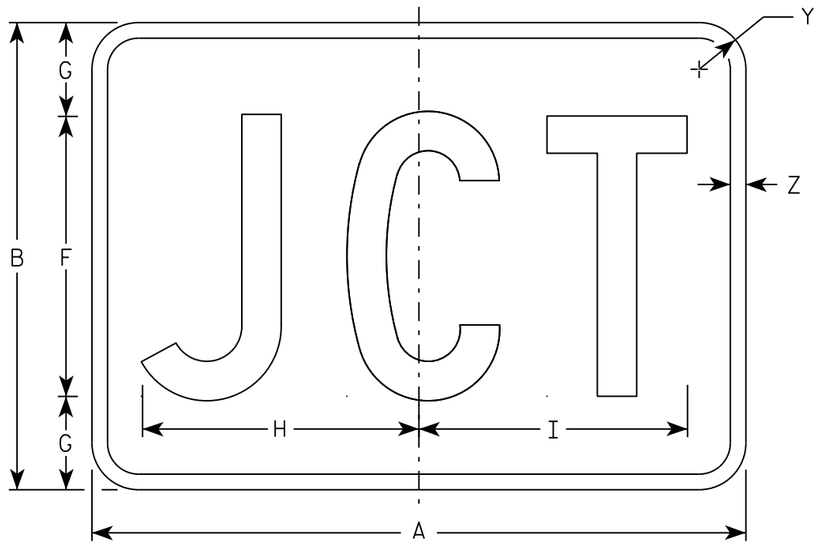
APPROVED Chester J Spang for State Traffic Engineer

DATE 3/20/02 PLATE NO. M1-6.9

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 141	E



M2-1
MM2-1
MP2-1



MB2-1
MK2-1
MN2-1
MR2-1

NOTES

1. Sign is Type II - Type H
2. Color:
   Background - See note 5
   Message - See note 5
3. Message Series - C
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. M2-1 Background - White
   Message - Black
   MB2-1 Background - Blue
   Message - White
   MK2-1 Background - Green
   Message - White
   MM2-1 Background - White
   Message - Green
   MN2-1 Background - Brown
   Message - White
   MP2-1 Background - White
   Message - Blue
   MR2-1 Background - Brown
   Message - Yellow

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	21	15	1 1/8	3/8	3/8	9	3	8 7/8	8 5/8																1 1/2	1/2	2.20
3	30	21	1 1/8	3/8	3/8	13	4	12 7/8	12 3/8																1 1/2	1/2	4.40
4	30	21	1 1/8	3/8	3/8	13	4	12 7/8	12 3/8																1 1/2	1/2	4.40
5	30	21	1 1/8	3/8	3/8	13	4	12 7/8	12 3/8																1 1/2	1/2	4.40

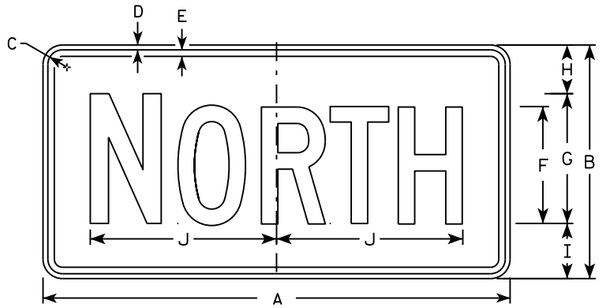
STANDARD SIGN
M2-1

WISCONSIN DEPT OF TRANSPORTATION

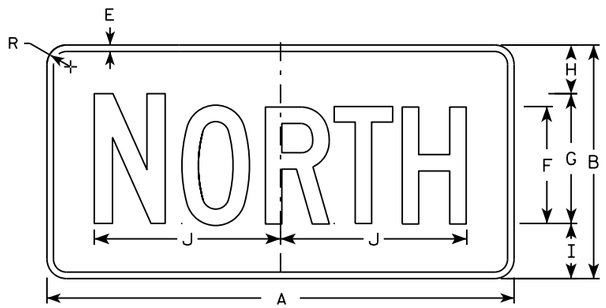
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 10/15/15 PLATE 142 12-1.12

PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E



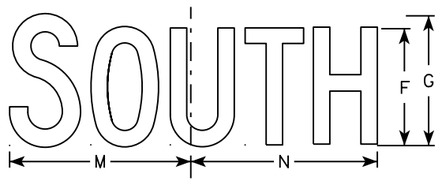
M3-1
MM3-1
MP3-1



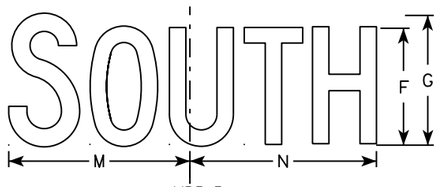
MB3-1
MK3-1
MN3-1

M3-2
MM3-2
MP3-2

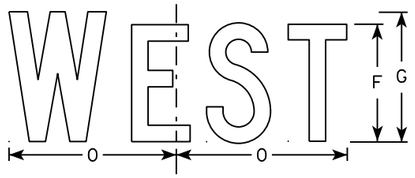
MB3-2
MK3-2
MN3-2



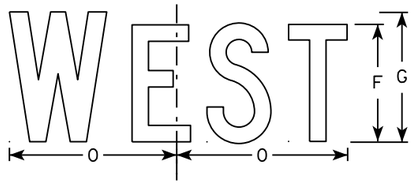
M3-3
MM3-3
MP3-3



MB3-3
MK3-3
MN3-3



M3-4
MM3-4
MP3-4



MB3-4
MK3-4
MN3-4

NOTES

1. All Signs Type II - Type H
2. Color:
   Background - See note 5
   Message - See note 5
3. Message Series - C
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. M3-1 thru M3-4 Background - White
   Message - Black
   MB3-1 thru MB3-4 Background - Blue
   Message - White
   MK3-1 thru MK3-4 Background - Green
   Message - White
   MM3-1 thru MM3-4 Background - White
   Message - Green
   MN3-1 thru MN3-4 Background - Brown
   Message - White
   MP3-1 thru MP3-4 Background - White
   Message - Blue
6. Note the first letter of each direction is larger than the remainder of the message.

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	24	12	1 1/8	3/8	3/8	6	7	2 1/4	2 3/4	10 1/4	7 7/8	8 3/8	10 1/4	9 3/4	8 3/4			1 1/2									2.00
3	36	18	1 1/8	3/8	1/2	9	10	3 3/4	4 1/4	14 3/8	12	12 1/8	14	14 1/8	13			1 1/2									4.5
4	36	18	1 1/8	3/8	1/2	9	10	3 3/4	4 1/4	14 3/8	12	12 1/8	14	14 1/8	13			1 1/2									4.5
5	36	18	1 1/8	3/8	1/2	9	10	3 3/4	4 1/4	14 3/8	12	12 1/8	14	14 1/8	13			1 1/2									4.5

STANDARD SIGNS
M3-1 thur M3-4
SERIES

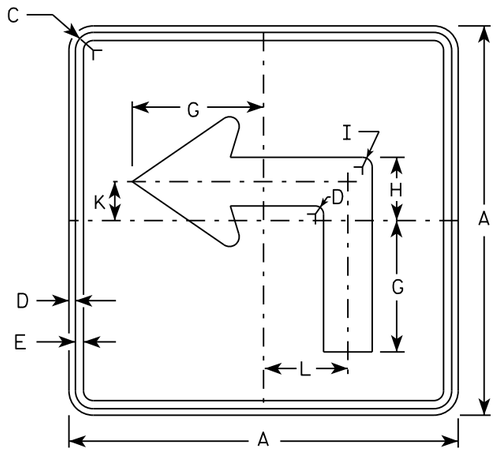
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew P Rauch for State Traffic Engineer

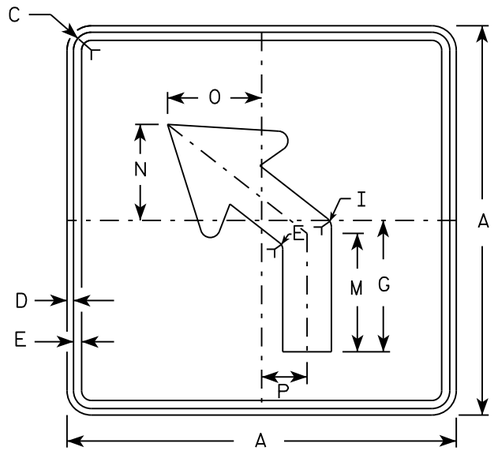
DATE 10/15/15 PLATE NO M3-1.14

PROJECT NO: | HWY: | COUNTY: | SHEET NO: E

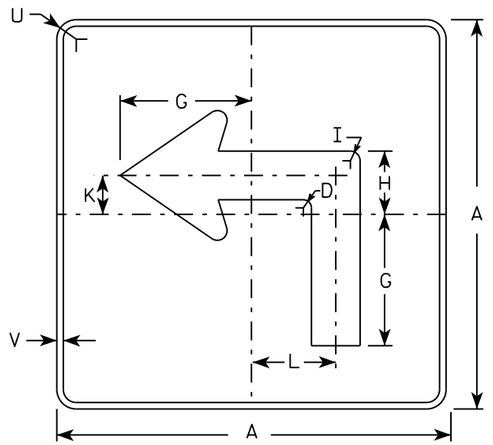
FILE NAME : C:\CAEfiles\Projects\tr_stdplate\M31.DGN PLOT DATE : 01-DEC-2015 17:54 PLOT BY : $$ plotuser $$ PLOT NAME : PLOT SCALE : 11.675051:1.000000



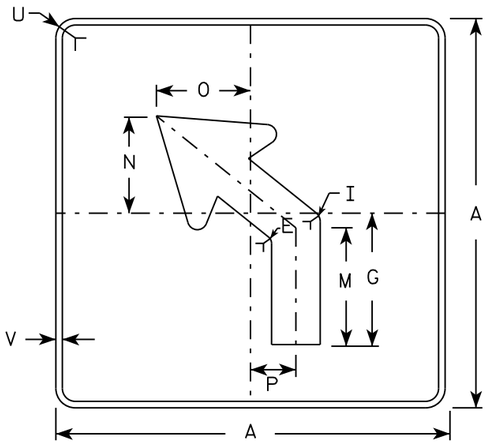
M5-1L
MM5-1L
MO5-1L
MP5-1L



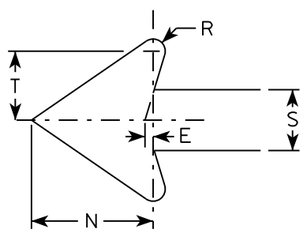
M5-2L
MM5-2L
MO5-2L
MP5-2L



MB5-1L
MK5-1L
MN5-1L
MR5-1L



MB5-2L
MK5-2L
MN5-2L
MR5-2L



NOTES

1. Signs are Type II - Type H reflective except as shown
2. Color:
   Background - See note 4
   Message - See note 4
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
4. M5-1 and M5-2 Background - White
   Message - Black
   MB5-1 and MB5-2 Background - Blue
   Message - White
   MK5-1 and MK5-2 Background - Green
   Message - White
   MM5-1 and MM5-2 Background - White
   Message - Green
   MN5-1 and MN5-2 Background - Brown
   Message - White
   MO5-1 and MO5-2 Background - Orange - Type F Reflective
   Message - Black
   MP5-1 and MP5-2 Background - White - Type H Reflective
   Message - Blue
   MR5-1 and MR5-2 Background - Brown
   Message - Yellow
5. M5-1R same as M5-1L except arrow points right.
6. M5-2R same as M5-2L except arrow tilts right.

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	21		1 1/8	3/8	3/8		7	3 3/8	5/8		2 1/8	4 1/2	6 3/8	5 1/4	5	2 1/2		1/2	2 5/8	3	1 1/2	1/2					3.06
3	30		1 3/8	1/2	5/8		10 1/8	4 7/8	7/8		3	6 1/2	9 1/8	7 1/2	7 1/4	3 1/2		3/4	3 3/4	4 1/4	1 7/8	1/2					6.25
4	30		1 3/8	1/2	5/8		10 1/8	4 7/8	7/8		3	6 1/2	9 1/8	7 1/2	7 1/4	3 1/2		3/4	3 3/4	4 1/4	1 7/8	1/2					6.25
5	30		1 3/8	1/2	5/8		10 1/8	4 7/8	7/8		3	6 1/2	9 1/8	7 1/2	7 1/4	3 1/2		3/4	3 3/4	4 1/4	1 7/8	1/2					6.25

STANDARD SIGN
M5-1 & M5-2

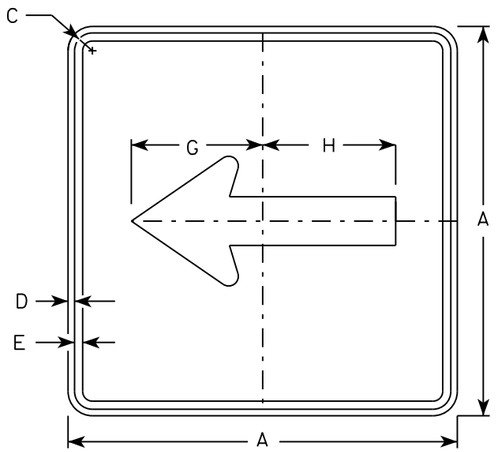
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

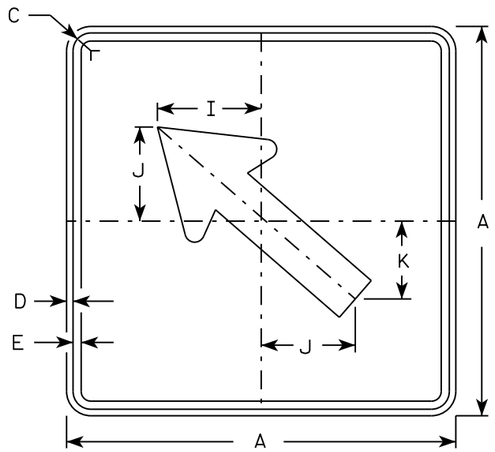
DATE 10/15/15 PLATE NO. M5-1.13

PROJECT NO: | HWY: | COUNTY: | SHEET NO: E

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\M51.DGN PLOT DATE : 01-DEC-2015 18:07 PLOT BY : $$ plotuser $$ PLOT NAME : PLOT SCALE : 11.675051:1.000000



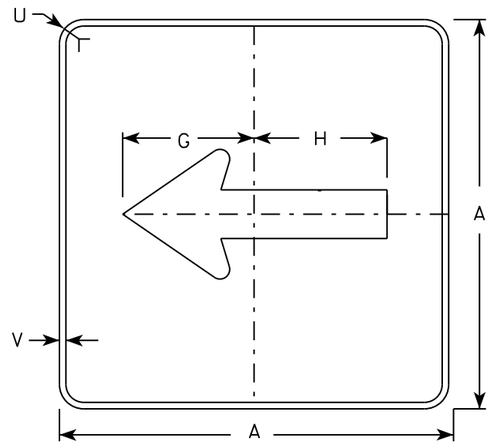
M6-1
MM6-1
MO6-1
MP6-1



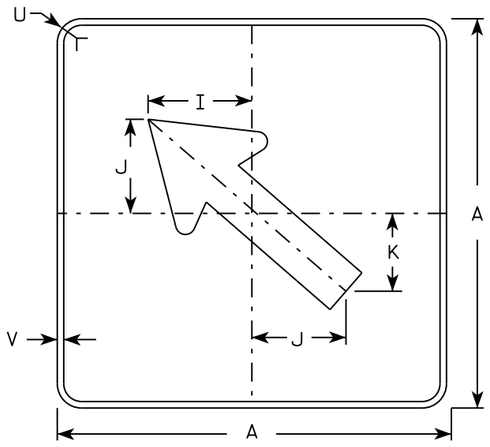
M6-2
MM6-2
MO6-2
MP6-2

NOTES

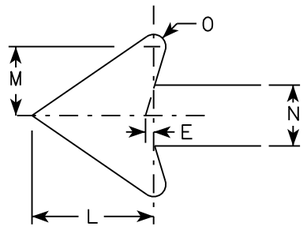
1. Signs are Type II - Type H except as Shown
2. Color:
   Background - See note 4
   Message - See note 4
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
4. M6-1 and M6-2 Background - White
   Message - Black
   MB6-1 and MB6-2 Background - Blue
   Message - White
   MK6-1 and MK6-2 Background - Green
   Message - White
   MM6-1 and MM6-2 Background - White
   Message - Green
   MN6-1 and MN6-2 Background - Brown
   Message - White
   MO6-1 and MO6-2 Background - Orange - Type F Reflective
   Message - Black
   MP6-1 and MP6-2 Background - White
   Message - Blue
   MR6-1 and MR6-2 Background - Brown
   Message - Yellow



MB6-1
MK6-1
MN6-1
MR6-1



MB6-2
MK6-2
MN6-2
MR6-2



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	21		1 1/8	3/8	3/8		7 1/2	7 1/8	5 5/8	5	4 1/4	5 1/4	3	2 5/8	1/2						1 1/2	1/2						3.06
3	30		1 3/8	1/2	5/8		10 3/4	10 1/4	8	7 1/4	6	7 1/2	4 1/4	3 3/4	3/4						1 7/8	1/2						6.25
4	30		1 3/8	1/2	5/8		10 3/4	10 1/4	8	7 1/4	6	7 1/2	4 1/4	3 3/4	3/4						1 7/8	1/2						6.25
5	30		1 3/8	1/2	5/8		10 3/4	10 1/4	8	7 1/4	6	7 1/2	4 1/4	3 3/4	3/4						1 7/8	1/2						6.25

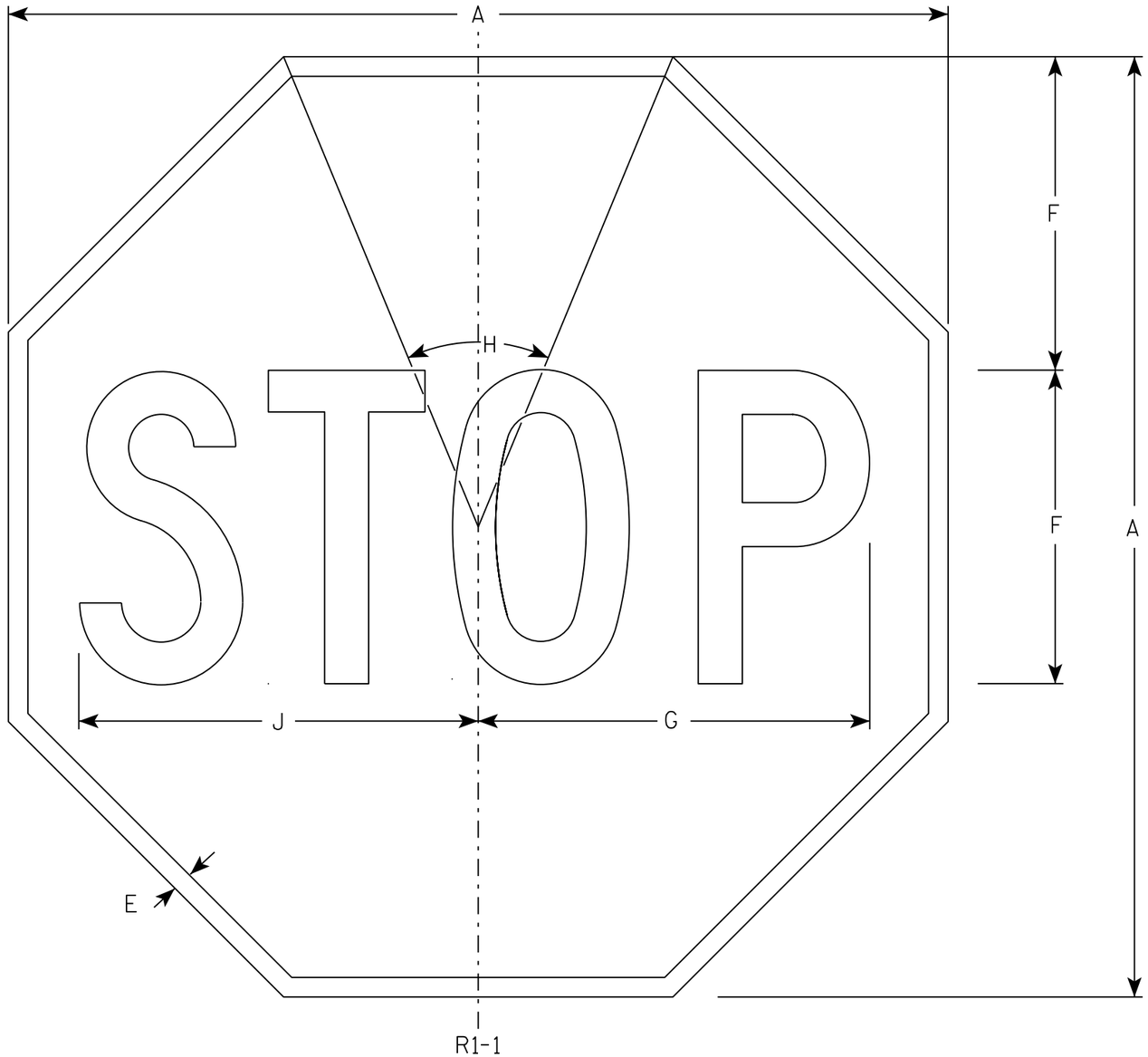
STANDARD SIGN
M6-1 & M6-2
SERIES

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 10/15/15 PLATE 145 M6-1.15

PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E



NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Red
   Message - White
3. Message Series - C

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	30				5/8	10	12 1/2	45°		12 3/4																	5.18
2S	30				5/8	10	12 1/2	45°		12 3/4																	5.18
2M	36				3/4	12	15	45°		15 3/8																	7.46
3	36				3/4	12	15	45°		15 3/8																	7.46
4	48				1	16	20	45°		20 1/2																	13.25
5	48				1	16	20	45°		20 1/2																	13.25
6	18				3/8	6	7 3/4	45°		7 3/4																	1.86
7	12				1/4	4	5	45°		5 1/8																	0.78

STANDARD SIGN
R1-1

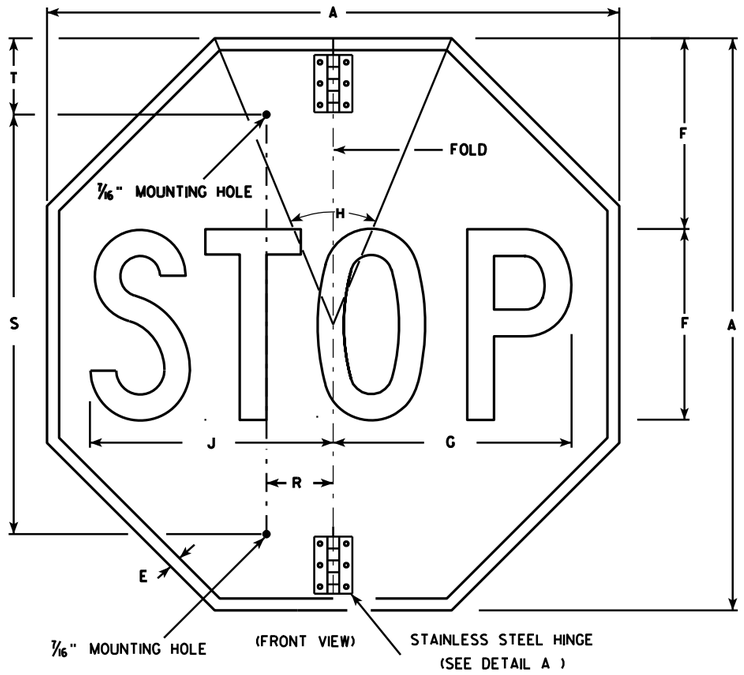
WISCONSIN DEPT OF TRANSPORTATION

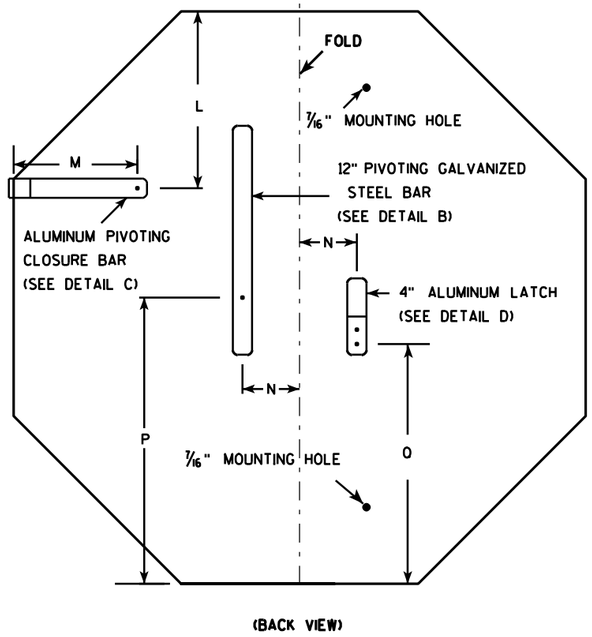
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 11/12/15 PLATE R1-1.13

PROJECT NO:	HWY:	COUNTY:		SHEET NO: E

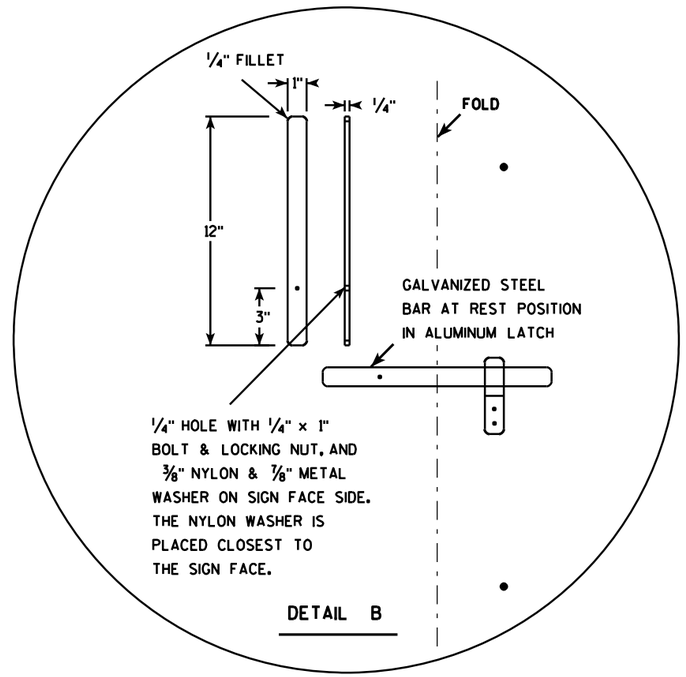
FILE NAME : C:\CAEfiles\Projects\tr_stdplate\R11.DGN PLOT DATE : 01-DEC-2015 18:07 PLOT BY : $$ plotuser $$ PLOT NAME : PLOT SCALE : 4.378143:1.000000



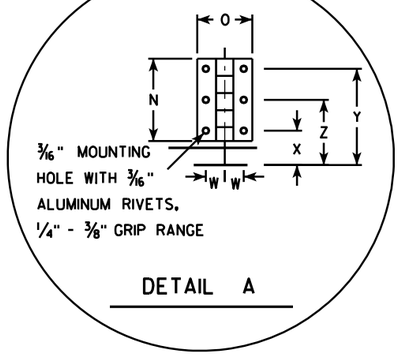


NOTES

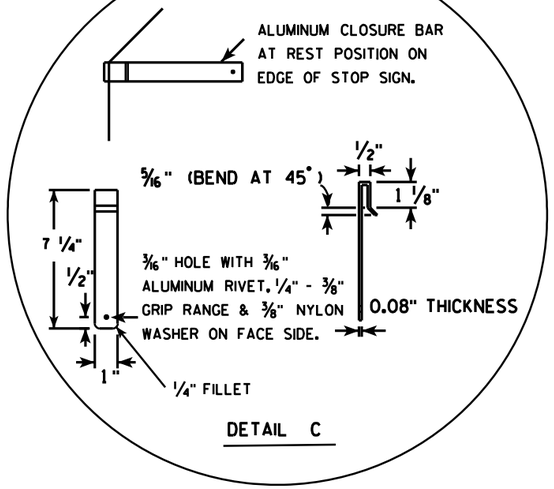
1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Red
   Message - White
3. Message Series - C
4. All hardware used on the folding STOP sign installation shall conform to 637.2.4 of the WIS DOT Standard Specification.



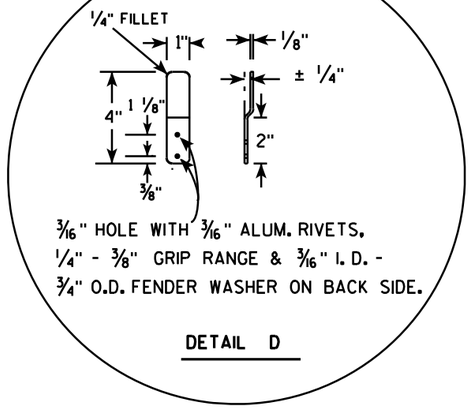
DETAIL B



DETAIL A



DETAIL C



DETAIL D

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																											
2S	30				5/8	10	12 1/2	45		12 3/4		9 1/4	6 1/2	3	2	15	12 3/8	2 1/2	22	5			11/16	1 1/4	3 1/2	2 3/8	5.18
2M	36				3/4	12	15	45		15 3/8		11	6 1/2	3	2	18	15 3/8	2 1/2	26	5			11/16	1 1/4	3 1/2	2 3/8	7.46
3	36				3/4	12	15	45		15 3/8		11	6 1/2	3	2	18	15 3/8	2 1/2	26	5			11/16	1 1/4	3 1/2	2 3/8	7.46
4																											
5																											

STANDARD SIGN
R1-1F

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 12/03/10 PLATE NO. R1-1F.3

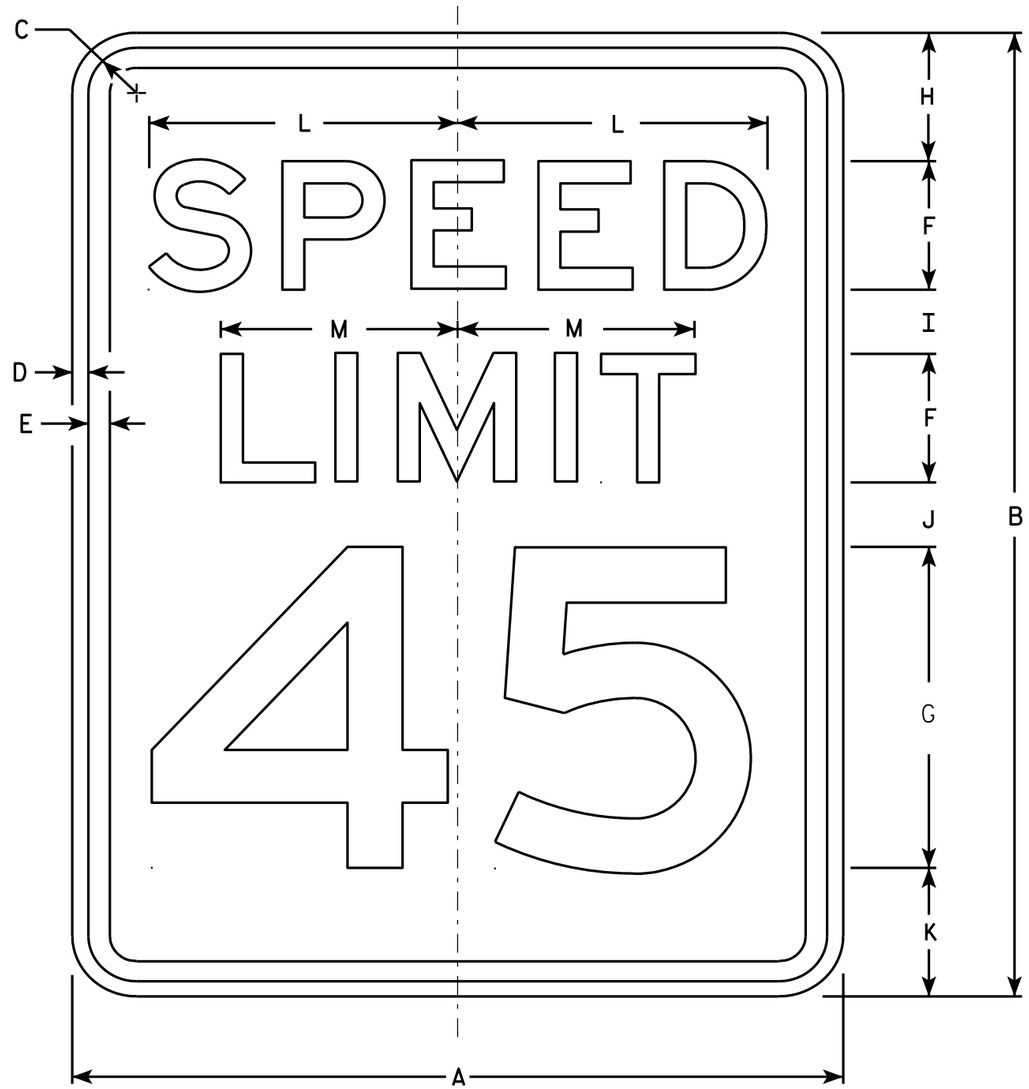
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 147 | E

FILE NAME : C:\Users\PROJECTS\tr_stdplate\R11F.DGN PLOT DATE : 02-DEC-2010 15:26 PLOT BY : dotsja PLOT NAME : PLOT SCALE : 7.945391:1.000000

WISDOT/CADDS SHEET 42

7

7



R2-1

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - White
   Message - Black
3. Message Series - E
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. Substitute appropriate numerals and optically adjust spacing to achieve proper balance.

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	18	24	1 1/8	3/8	1/2	3	8	3	2	2	3	7 1/4	5 1/2														3.0
2S	24	30	1 1/8	3/8	1/2	4	10	3	2 1/4	3 3/8	3 3/8	9 5/8	7 3/8														5.0
2M	30	36	1 3/8	1/2	5/8	5	12	5	2 1/2	2 1/2	4	12	9 1/4														7.5
3	36	48	1 3/8	1/2	5/8	6	14	6	5	5	6	14 3/8	11														12.0
4	36	48	1 3/8	1/2	5/8	6	14	6	5	5	6	14 3/8	11														12.0
5	48	60	2 1/4	3/4	1	8	20	6	4 1/2	6 3/4	6 3/4	19 1/4	14 5/8														20.0

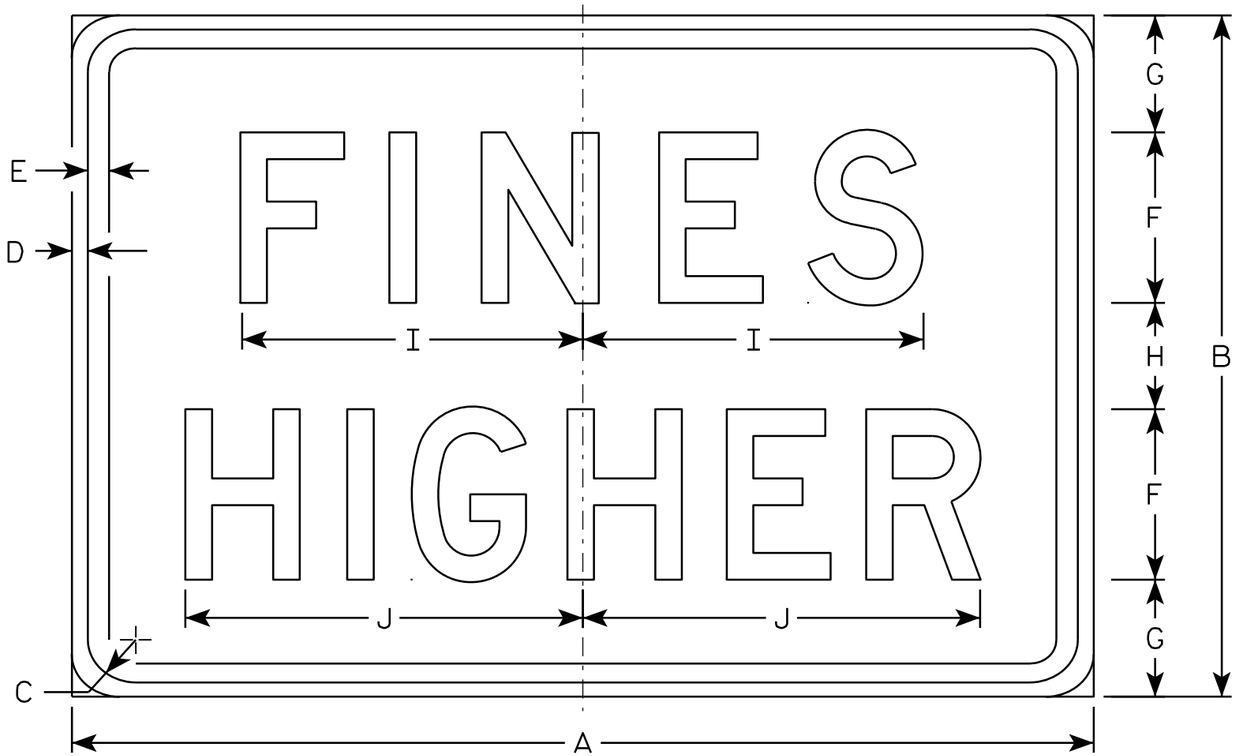
STANDARD SIGN
R2-1

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 5/26/10 PLATE NO. R2-1.13

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 148 | E



R2-6P

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - White
   Message - Black
3. Message Series - D
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.

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	24	18	1 1/8	3/8	3/8	4	3 1/2	3	7 5/8	9 1/4																	3.0
2M	24	18	1 1/8	3/8	3/8	4	3 1/2	3	7 5/8	9 1/4																	3.0
3	36	24	1 1/8	3/8	1/2	6	4 1/8	3 3/4	12	14																	6.0
4	36	24	1 1/8	3/8	1/2	6	4 1/8	3 3/4	12	14																	6.0
5	48	36	1 3/8	1/2	5/8	8	7	6	15 1/8	19																	12.0

STANDARD SIGN
R2-6P

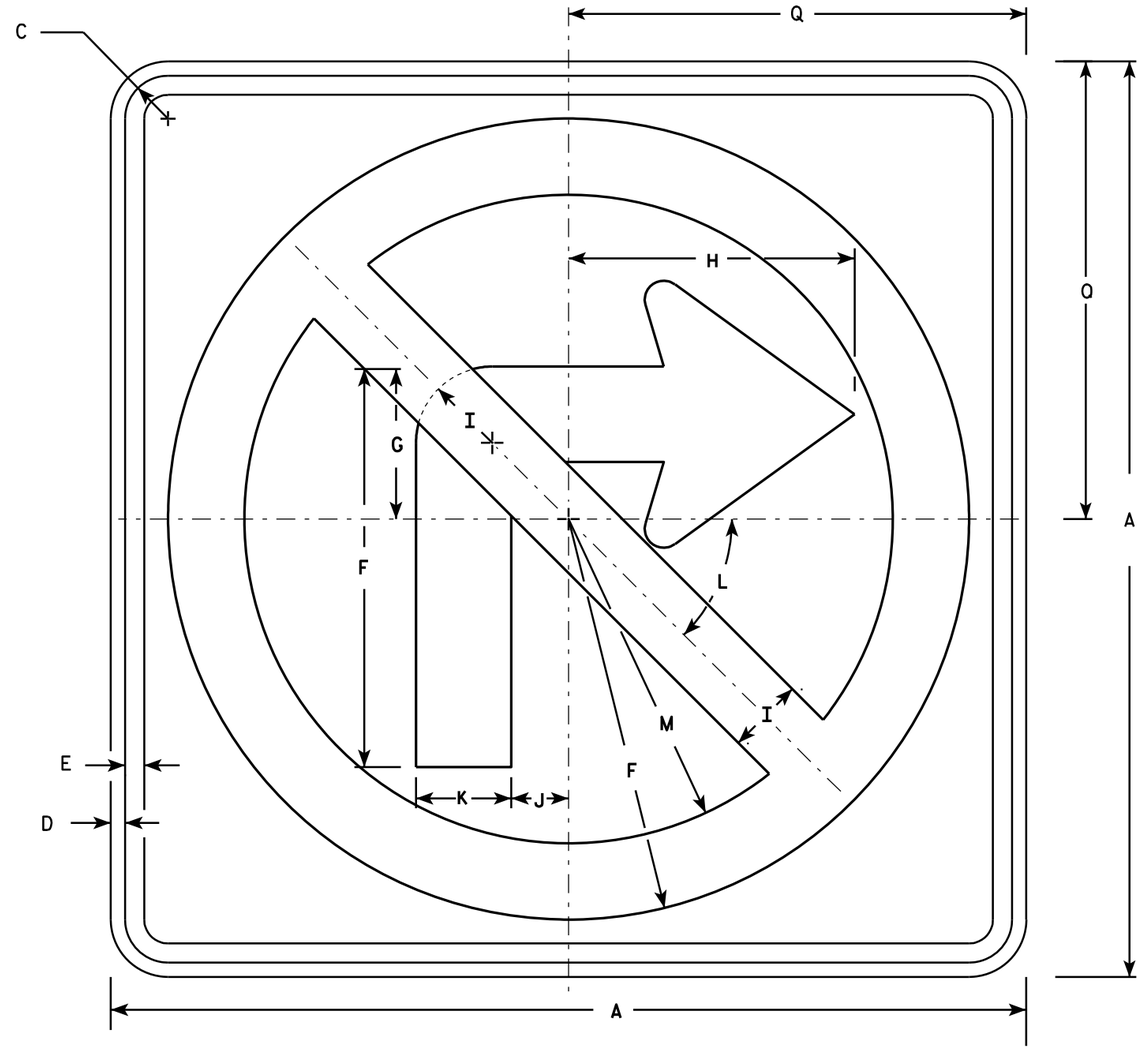
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 12/20/10 PLATE NO. R2-6P.2

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 149 | E

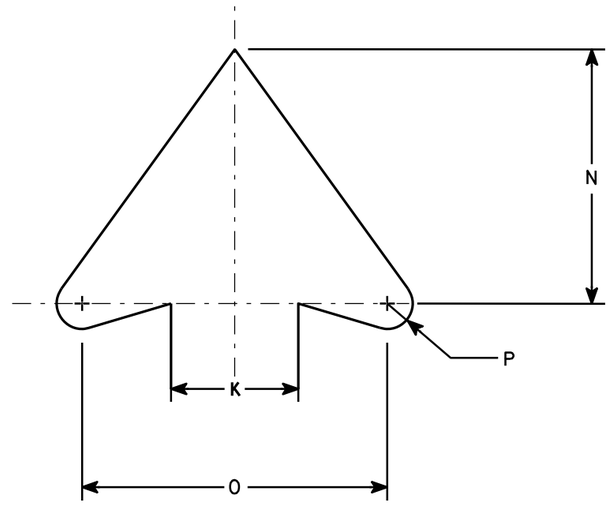
7



R3-1

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - White
   Message - See note 4
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
4. Border & Arrow are non reflective black, the circle with diagonal bar is reflective red.



ARROW DETAIL

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	24		1 1/8	3/8	1/2	10 1/2	4	7 1/2	2	1 1/2	2 1/2	45	8 1/2	5	6	1/2	12										4.0
2S	24		1 1/8	3/8	1/2	10 1/2	4	7 1/2	2	1 1/2	2 1/2	45°	8 1/2	5	6	1/2	12										4.0
2M	36		1 5/8	5/8	3/4	15 3/4	6	11 1/4	3	2 1/4	3 3/4	45	12 3/4	7 1/2	9	3/4	18										9.0
3	36		1 5/8	5/8	3/4	15 3/4	6	11 1/4	3	2 1/4	3 3/4	45	12 3/4	7 1/2	9	3/4	18										9.0
4	36		1 5/8	5/8	3/4	15 3/4	6	11 1/4	3	2 1/4	3 3/4	45°	12 3/4	7 1/2	9	3/4	18										9.0
5	48		2 1/4	3/4	1	21	8	15	4	3	5	45°	17	10	12	1	24										16.0

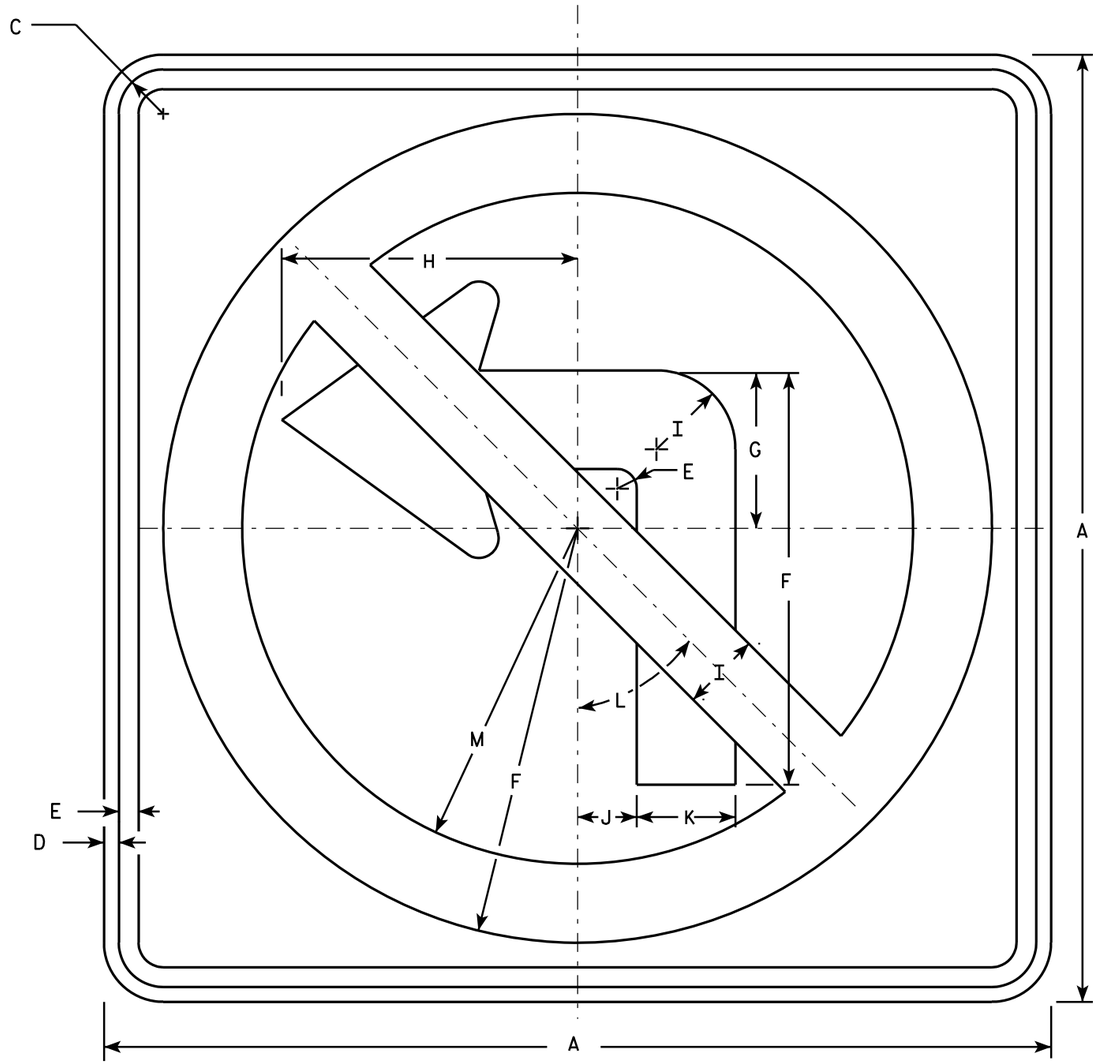
STANDARD SIGN
R3-1

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 12/08/10 PLATE NO. R3-1.5

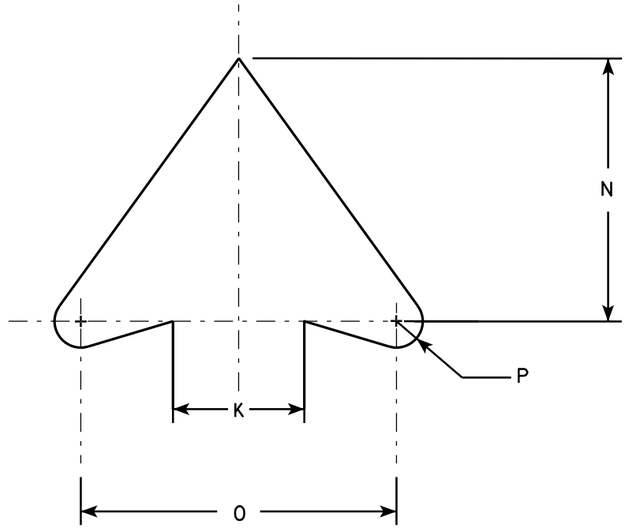
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 150	E



R3-2

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - White
   Message - See note 4
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
4. Border & Arrow are non reflective black, the circle with diagonal bar is reflective red.



ARROW DETAIL

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	24		1 1/8	3/8	1/2	10 1/2	4	7 1/2	2	1 1/2	2 1/2	45°	8 1/2	5	6	1/2											4.0
2S	24		1 1/8	3/8	1/2	10 1/2	4	7 1/2	2	1 1/2	2 1/2	45°	8 1/2	5	6	1/2											4.0
2M	36		1 5/8	5/8	3/4	15 3/4	6	11 1/4	3	2 1/4	3 3/4	45°	12 3/4	7 1/2	9	3/4											9.0
3	36		1 5/8	5/8	3/4	15 3/4	6	11 1/4	3	2 1/4	3 3/4	45°	12 3/4	7 1/2	9	3/4											9.0
4	36		1 5/8	5/8	3/4	15 3/4	6	11 1/4	3	2 1/4	3 3/4	45°	12 3/4	7 1/2	9	3/4											9.0
5	48		2 1/4	3/4	1	21	8	15	4	3	5	45°	17	10	12	1											16.0

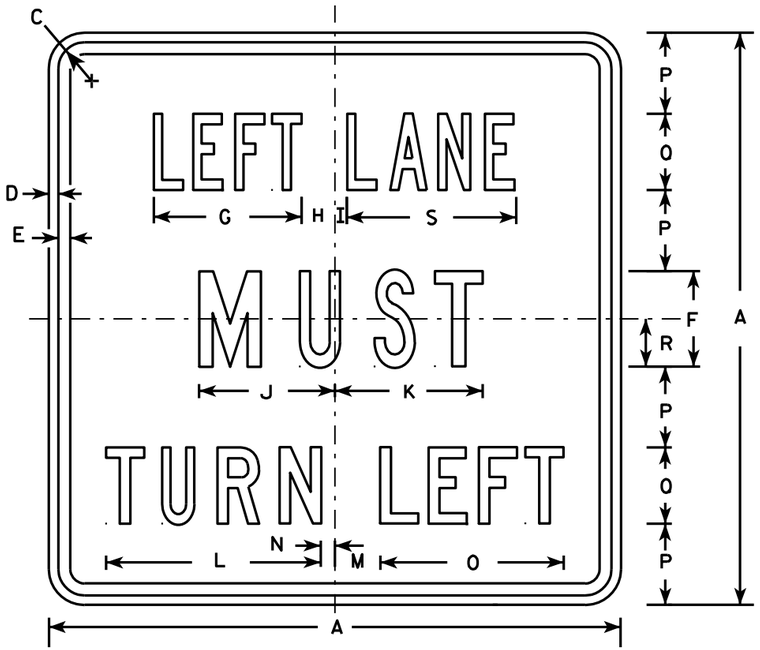
STANDARD SIGN
R3-2

WISCONSIN DEPT OF TRANSPORTATION

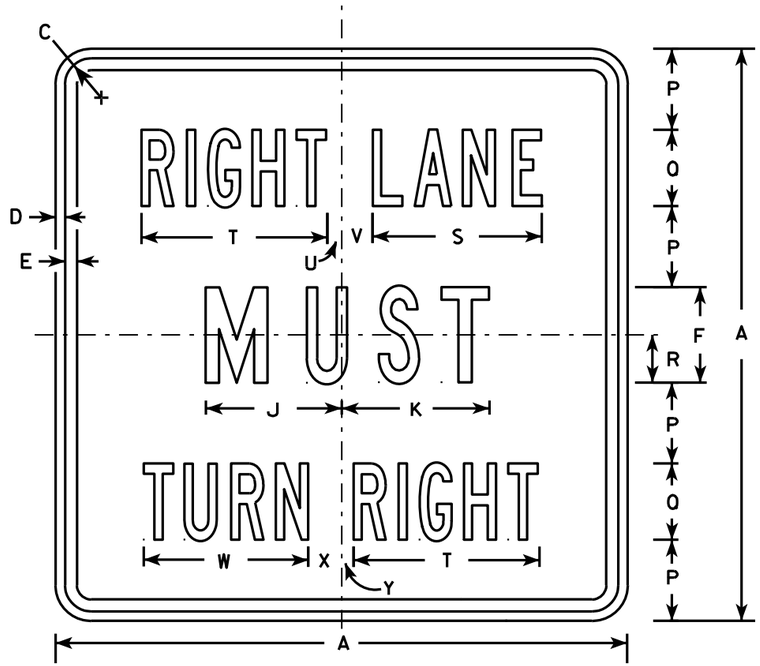
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 12/08/10 PLATE NO. R3-2.10

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 151	E



R3-7L



R3-7R

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - White
   Message - Black
3. Message Series - Line 1 is Series B.
   Line 2 is Series C.
   Line 3 on plate R3-7R is Series B and Series C on plate R3-7L.
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.

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	30		1 3/8	1/2	5/8	5	7 3/4	1 3/4	5/8	7 1/8	7 3/4	11 1/4	2 3/8	3/4	9 5/8	4 1/4	4	2 1/2	8 7/8	9 3/4	3/4	1 5/8	8 5/8	1 5/8	5/8		6.25
2S	30		1 3/8	1/2	5/8	5	7 3/4	1 3/4	5/8	7 1/8	7 3/4	11 1/4	2 3/8	3/4	9 5/8	4 1/4	4	2 1/2	8 7/8	9 3/4	3/4	1 5/8	8 5/8	1 5/8	5/8		6.25
2M	30		1 3/8	1/2	5/8	5	7 3/4	1 3/4	5/8	7 1/8	7 3/4	11 1/4	2 3/8	3/4	9 5/8	4 1/4	4	2 1/2	8 7/8	9 3/4	3/4	1 5/8	8 5/8	1 5/8	5/8		6.25
3	36		1 5/8	5/8	3/4	6	9 5/8	2	1 1/8	8 3/4	9	13 1/2	3 7/8	1 1/2	12 1/2	5	5	3	10 5/8	12	7/8	2 1/4	10 5/8	2 1/8	1		9.00
4	48		2 1/4	3/4	1	8	13 1/2	2 3/8	1 1/2	11 1/2	11 7/8	17 3/4	3 5/8	2 1/2	16 3/8	6 1/2	7	4	14 3/8	16 7/8	5/8	3 1/4	15 1/8	2 3/4	1 1/8		16.00
5																											

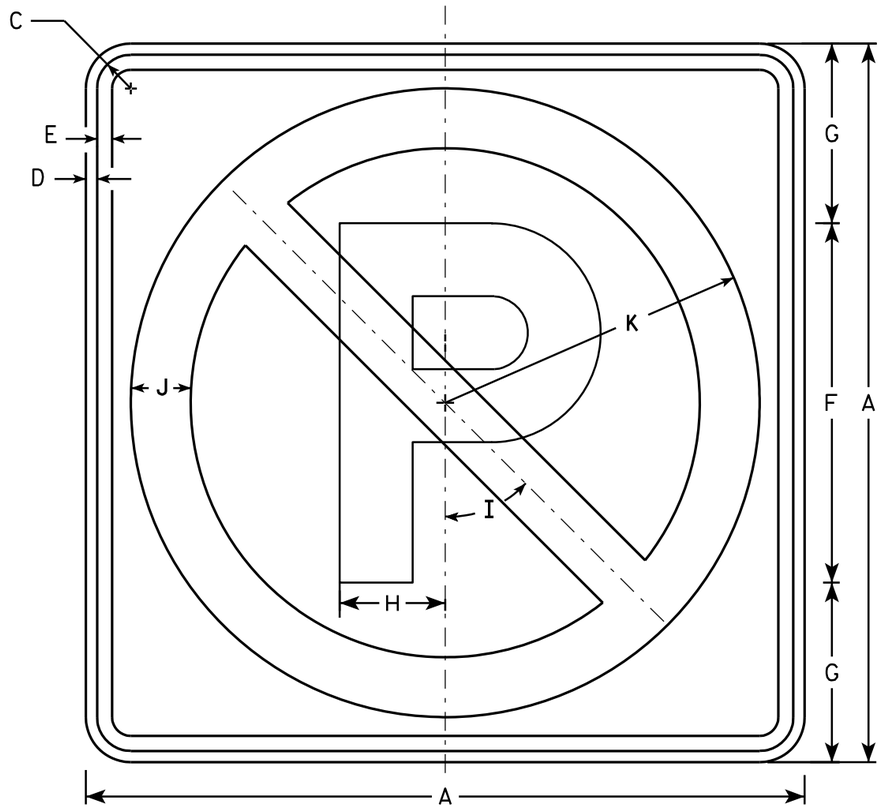
STANDARD SIGN
R3-7L & R3-7R

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/18/2011 PLATE NO. R3-7.3

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 152	E



R3-8A

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - White
   Message - See note 4
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
4. Border & Letter P are non reflective black, the circle with diagonal bar is reflective red.

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	24		1 1/8	3/8	1/2	12	6	3 1/2	45°	2	10 1/2																4.0
2M	24		1 1/8	3/8	1/2	12	6	3 1/2	45°	2	10 1/2																4.0
3																											
4																											
5																											

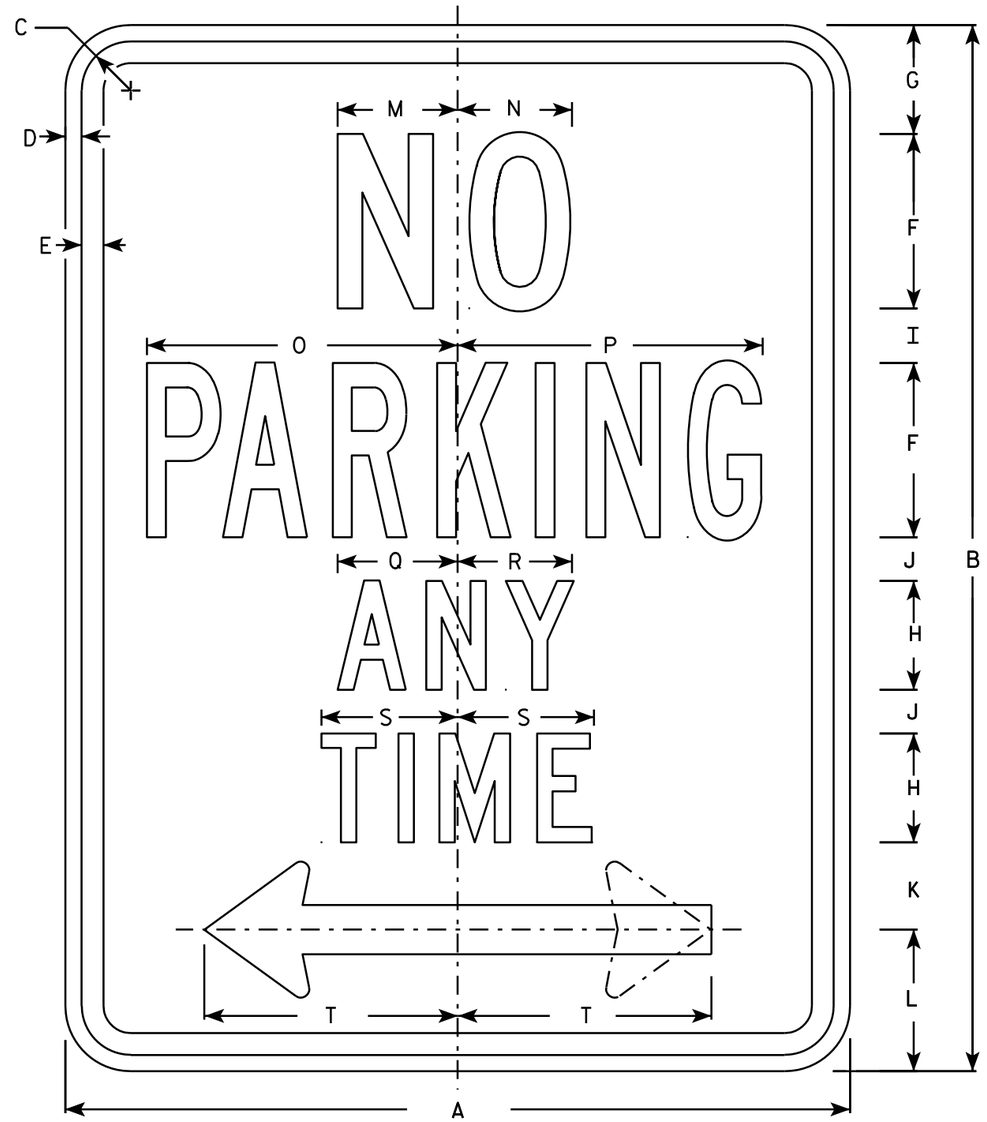
STANDARD SIGN
R3-8A

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 8/01/12 PLATE NO. R3-8A.1

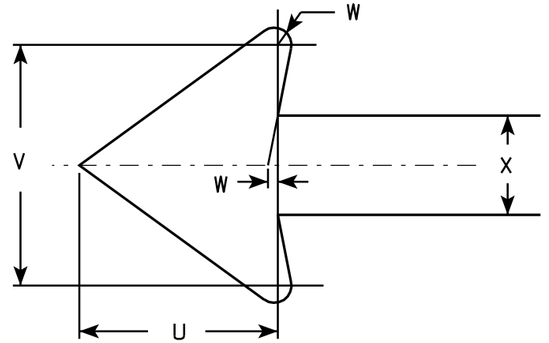
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 153 | E



R7-1

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - White
   Message - Red
3. Message Series - See Note 5
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. Lines 1, 3 and 4 are series C, line 2 is series B.
6. R7-1D (double arrow)
   R7-1L (left arrow)
   R7-1R (right arrow)



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	12	18	1 1/8	3/8	3/8	3	1 7/8	2	7/8	5/8	1 1/2	2 1/2	2	2	4 7/8	4 7/8	2 1/4	2 1/8	2 1/2	3 7/8	1 1/2	1 3/4	1/8	3/4			1.5
2S	18	24	1 1/8	3/8	1/2	4	2 1/2	2 1/2	1 1/4	1	2	3 1/4	2 3/4	2 5/8	7 1/8	7	2 3/4	2 5/8	3 1/8	5 7/8	2 1/4	2 5/8	1/4	1 1/8			3.0
2M	24	30	1 1/8	3/8	1/2	5	3	3	2	1 1/4	2 1/2	4	3 1/4	3 3/8	9 1/4	9 1/4	3 1/4	3 1/4	3 3/4	7 3/4	3	3 1/2	1/4	1 1/2			5.0
3	24	30	1 1/8	3/8	1/2	5	3	3	2	1 1/4	2 1/2	4	3 1/4	3 3/8	9 1/4	9 1/4	3 1/4	3 1/4	3 3/4	7 3/4	3	3 1/2	1/4	1 1/2			5.0
4																											
5																											

STANDARD SIGN
R7-1

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/31/2011 PLATE NO. R7-1.9

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 154 | E

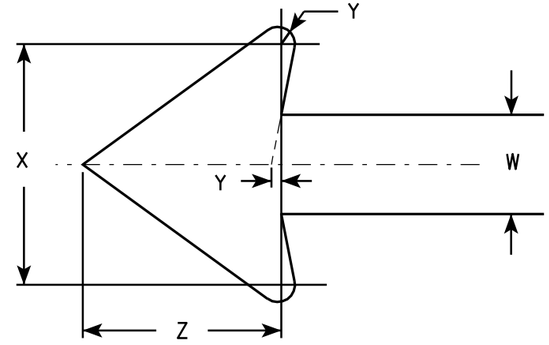
FILE NAME : C:\Users\PROJECTS\tr_stdplate\R71.DGN PLOT DATE : 31-MAR-2011 09:20 PLOT BY : mscsja PLOT NAME : PLOT SCALE : 3.476110:1.000000

WISDOT/CADDS SHEET 42

R7-51

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - White
   Message - Red
3. Message Series - See Note 6
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. R7-51D (double arrow)
   R7-51R (right arrow)
   R7-51L (left arrow)
6. Lines 1, 3 and 4 are Series C.
   Line 2 is Series B.



ARROW DETAIL

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	12	18	1 1/8	3/8	3/8	3	1 7/8	2	7/8	5/8	1 1/2	2 1/2	2	2	4 7/8	4 7/8	4 7/8	5/8	1 3/4	2 1/2	4 3/8	3 7/8	3/4	1 3/4	1/8	1 1/2	1.5
2S	18	24	1 1/8	3/8	1/2	4	2 1/2	2 1/2	1 1/4	1	2	3 1/4	2 3/4	2 5/8	7 1/8	7	5 3/4	1 1/8	1 1/2	3 1/8	5 1/2	5 7/8	1 1/8	2 5/8	1/4	2 1/4	3.0
2M	24	30	1 1/8	3/8	1/2	5	3	3	2	1 1/4	2 1/2	4	3 1/4	3 3/8	9 1/4	9 1/4	7 1/8	1 1/4	2	3 3/4	6 1/2	7 3/4	1 1/2	3 1/2	1/4	3	5.0
3	24	30	1 1/8	3/8	1/2	5	3	3	2	1 1/4	2 1/2	4	3 1/4	3 3/8	9 1/4	9 1/4	7 1/8	1 1/4	2	3 3/4	6 1/2	7 3/4	1 1/2	3 1/2	1/4	3	5.0
4																											
5																											

STANDARD SIGN
R7-51

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/31/2011 PLATE NO. R7-51.6

PROJECT NO:	HWY:	COUNTY:			SHEET NO: 155	E

R9-9

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - White
   Message - Black
3. Message Series - C
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.

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	30	18	1 3/4	1/2	1/2	4	3 1/2	3	10 3/4	8 1/8																	3.75
2M	30	18	1 3/4	1/2	1/2	4	3 1/2	3	10 3/4	8 1/8																	3.75
3																											
4																											
5																											

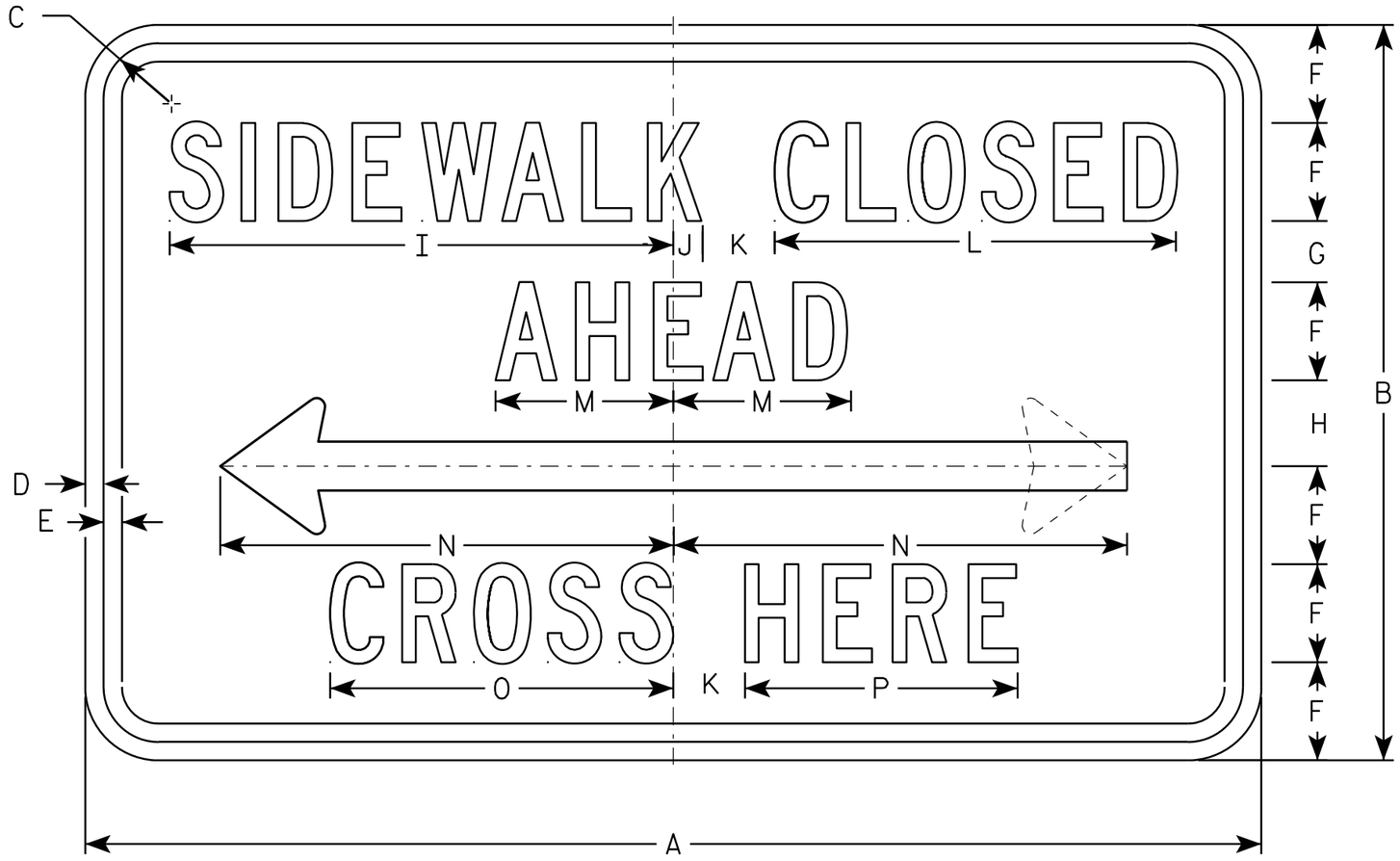
STANDARD SIGN
R9-9

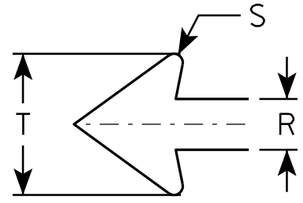
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 4/1/2011 PLATE NO. R9-9.5

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 156	E





R9-11

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - White
   Message - Black
3. Message Series - C except Size 1 is Series D
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.

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	24	12	1 1/8	3/8	3/8	1 1/2	1 1/2	1 1/2	9 3/4	5/8	1 1/2	7 5/8	3 1/2	9 1/4	6 5/8	5 1/8		1	1/8	2 3/4							2.0
2S	48	30	2 3/4	3/4	3/4	4	2 1/2	3 1/2	20 1/2	1 1/4	3	16 3/8	7 1/4	18 1/2	14	11 1/8		2	3/8	5 1/2							10.0
2M	48	30	2 3/4	3/4	3/4	4	2 1/2	3 1/2	20 1/2	1 1/4	3	16 3/8	7 1/4	18 1/2	14	11 1/8		2	3/8	5 1/2							10.0
3																											
4																											
5																											

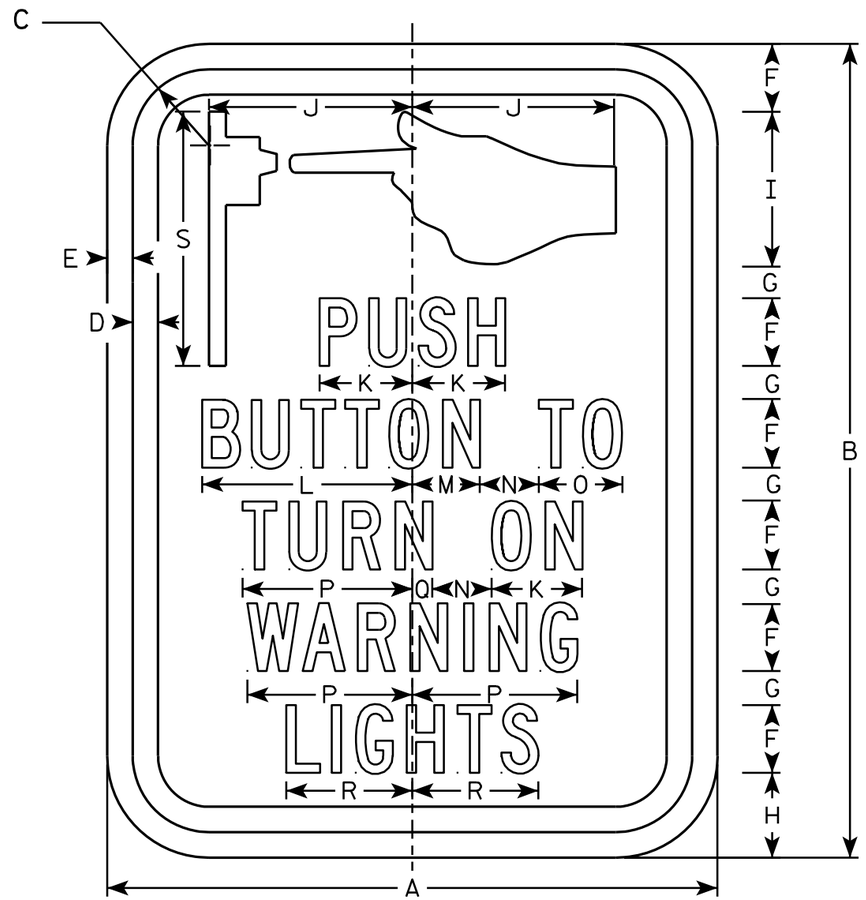
STANDARD SIGN
R9-11

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 8/17/2012 PLATE NO. R9-11.2

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 157	E



R10-25

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - White
   Message - Black
3. Message Series - C
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. Size (1) comes as a decal only.

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	6	9	1 1/8	3/8	3/8	3/4	3/8	1	1 3/4	2	7/8	2 1/8	5/8	5/8	7/8	1 5/8	1/4	1 1/4	2 7/8								.38
2S	9	12	1 1/8	3/8	3/8	1	1/2	1 1/4	2 1/4	3	1 3/8	3 1/8	1	7/8	1 1/4	2 1/2	1/4	1 7/8	3 3/4								.75
2M	9	12	1 1/8	3/8	3/8	1	1/2	1 1/4	2 1/4	3	1 3/8	3 1/8	1	7/8	1 1/4	2 1/2	1/4	1 7/8	3 3/4								.75
3																											
4																											
5																											

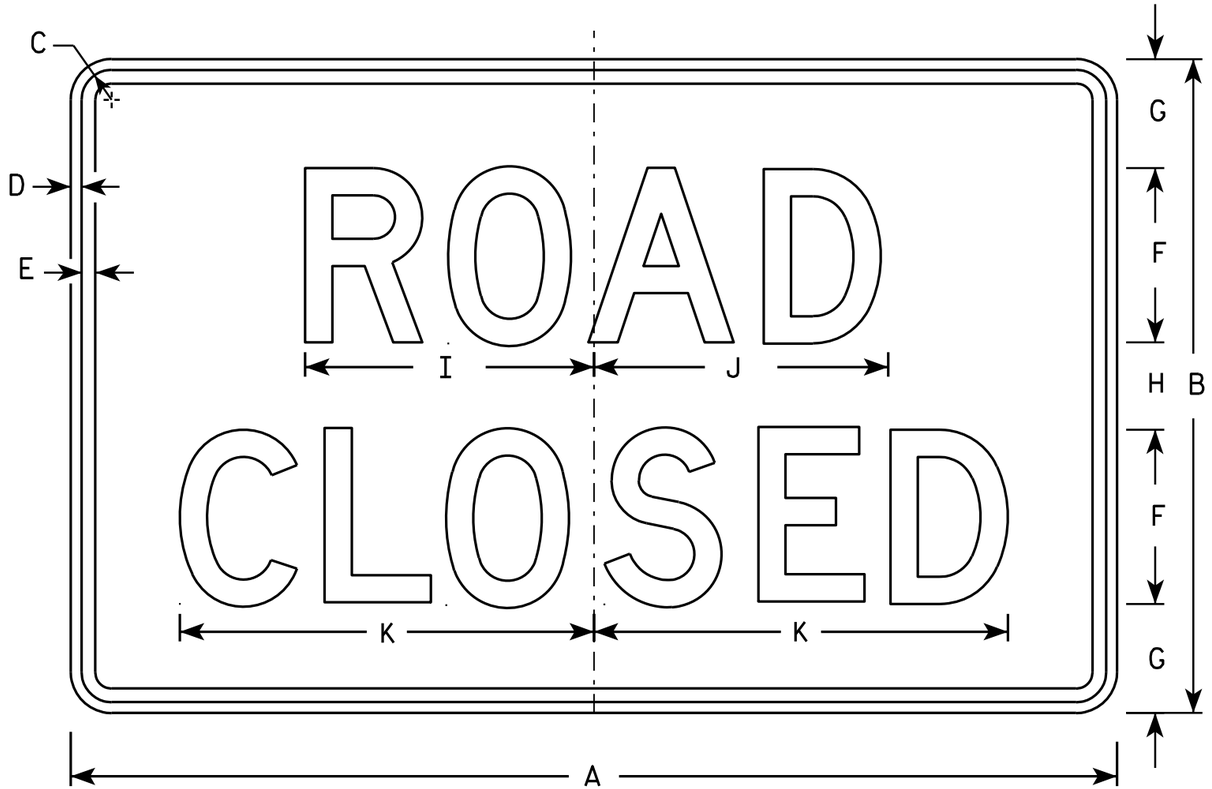
STANDARD SIGN
R10-25

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 11/8/10 PLATE NO. R10-25.1

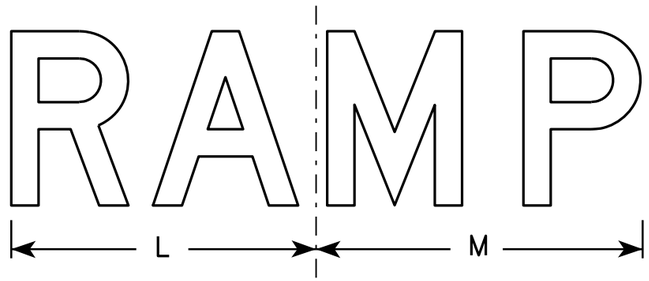
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 158	E



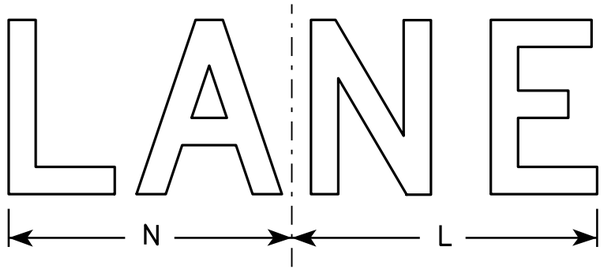
R11-2

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - White
   Message - Black
3. Message Series - D
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. Modify the message as required.



R11-2R



R11-2L

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	48	30	1 3/8	1/2	5/8	8	5	4	13 1/4	13 1/2	19	14	15	13													10.0
2M	48	30	1 3/8	1/2	5/8	8	5	4	13 1/4	13 1/2	19	14	15	13													10.0
3	48	30	1 3/8	1/2	5/8	8	5	4	13 1/4	13 1/2	19	14	15	13													10.0
4	48	30	1 3/8	1/2	5/8	8	5	4	13 1/4	13 1/2	19	14	15	13													10.0
5	48	30	1 3/8	1/2	5/8	8	5	4	13 1/4	13 1/2	19	14	15	13													10.0

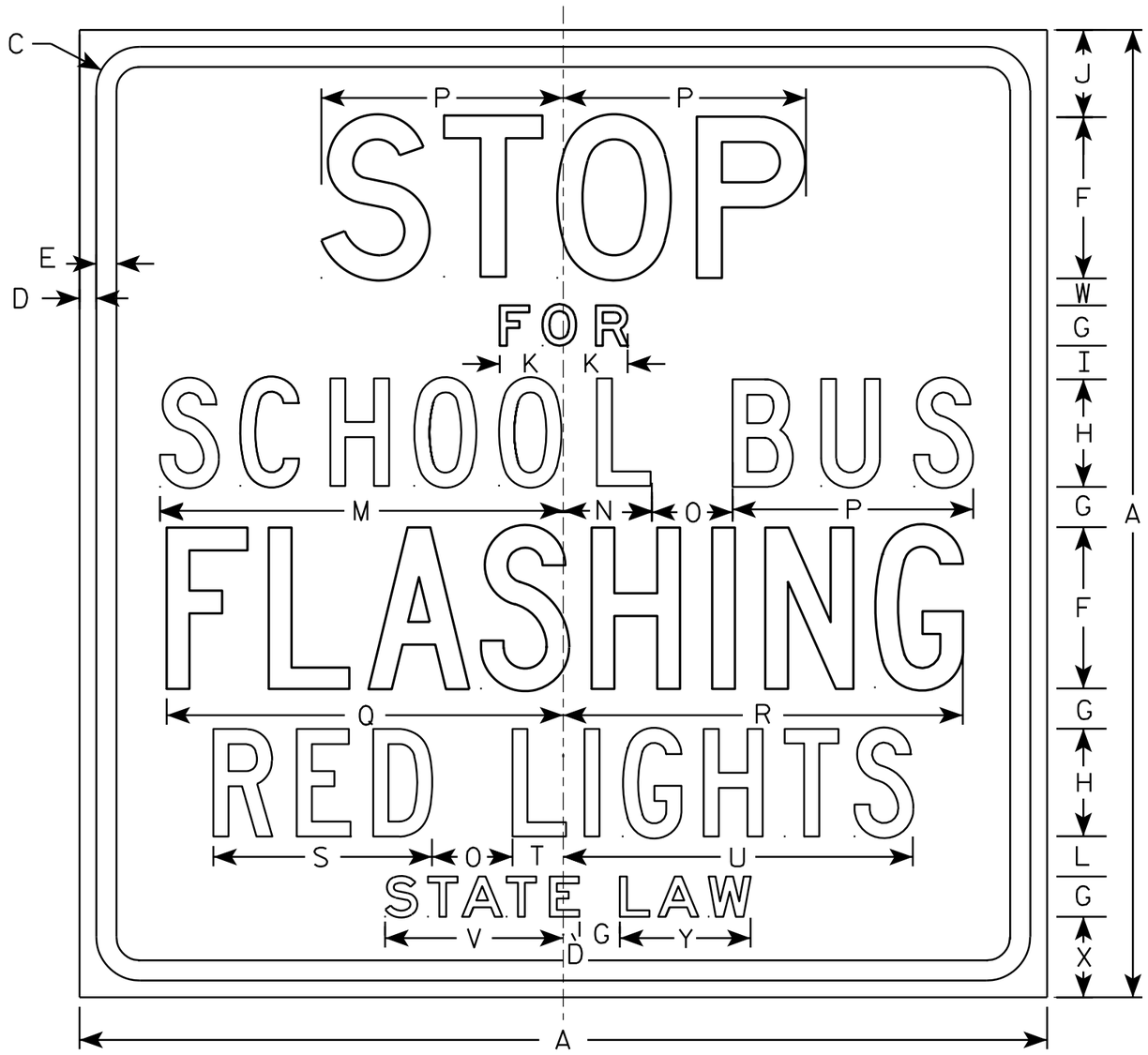
STANDARD SIGN
R11-2

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 4/1/11 PLATE NO. R11-2.10

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 159 | E



R59-51

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - White
   Message - Black
3. Message Series - See note 5
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. Line 1 is Series D
   Lines 2 & 6 are Series E
   Line 3, 4 & 5 are Series C

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																											
2S	36		1 5/8	5/8	3/4	6	1 1/2	4	1 1/4	3 1/4	2 3/8	1 1/2	15	3 1/4	3	9	14 3/4	14 7/8	8 1/8	1 7/8	13	6 5/8	1	3	4 7/8		9.0
2M	36		1 5/8	5/8	3/4	6	1 1/2	4	1 1/4	3 1/4	2 3/8	1 1/2	15	3 1/4	3	9	14 3/4	14 7/8	8 1/8	1 7/8	13	6 5/8	1	3	4 7/8		9.0
3	48		2 1/4	3/4	1	8	2	6	1 1/4	4 3/4	3 1/4	1 1/2	20 1/4	5	3 5/8	12	19 1/2	20	11 5/8	3 3/4	19	9 1/2	1	3 1/2	6 3/4		16.0
4	48		2 1/4	3/4	1	8	2	6	1 1/4	4 3/4	3 1/4	1 1/2	20 1/4	5	3 5/8	12	19 1/2	20	11 5/8	3 3/4	19	9 1/2	1	3 1/2	6 3/4		16.0
5																											

STANDARD SIGN
R59-51

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/30/11 PLATE NO. R59-51.10

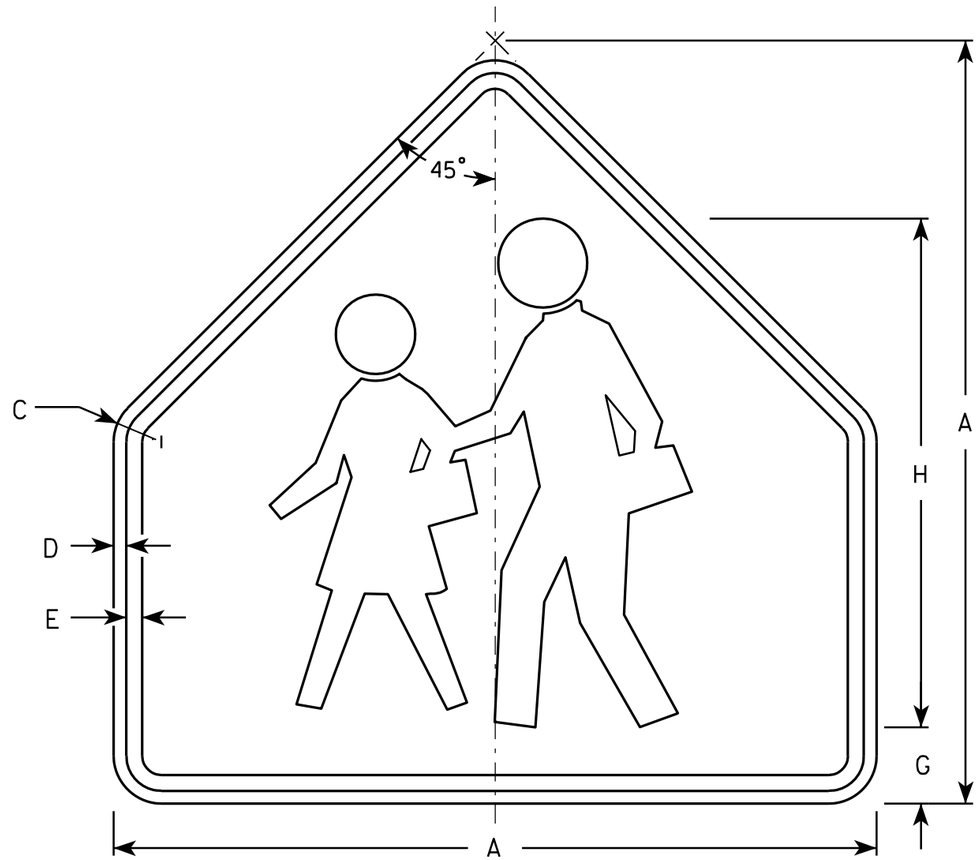
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 160 | E

FILE NAME : C:\Users\PROJECTS\tr_stdplate\R5951.DGN 30-MAR-2011 09:59 PLOT DATE : 30-MAR-2011 09:59 PLOT BY : mscj9h PLOT NAME : PLOT SCALE : 5.287650:1.000000

WISDOT/CADDS SHEET 42

7

7



S1-1

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Yellow-Green
   Message - Black
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.

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	30		1 3/8	1/2	5/8		3	20																			4.69
2	36		1 5/8	5/8	3/4		3 1/2	24																			6.75
3	36		1 5/8	5/8	3/4		3 1/2	24																			6.75
4	48		2 1/4	3/4	1		4 3/4	32																			12
5																											

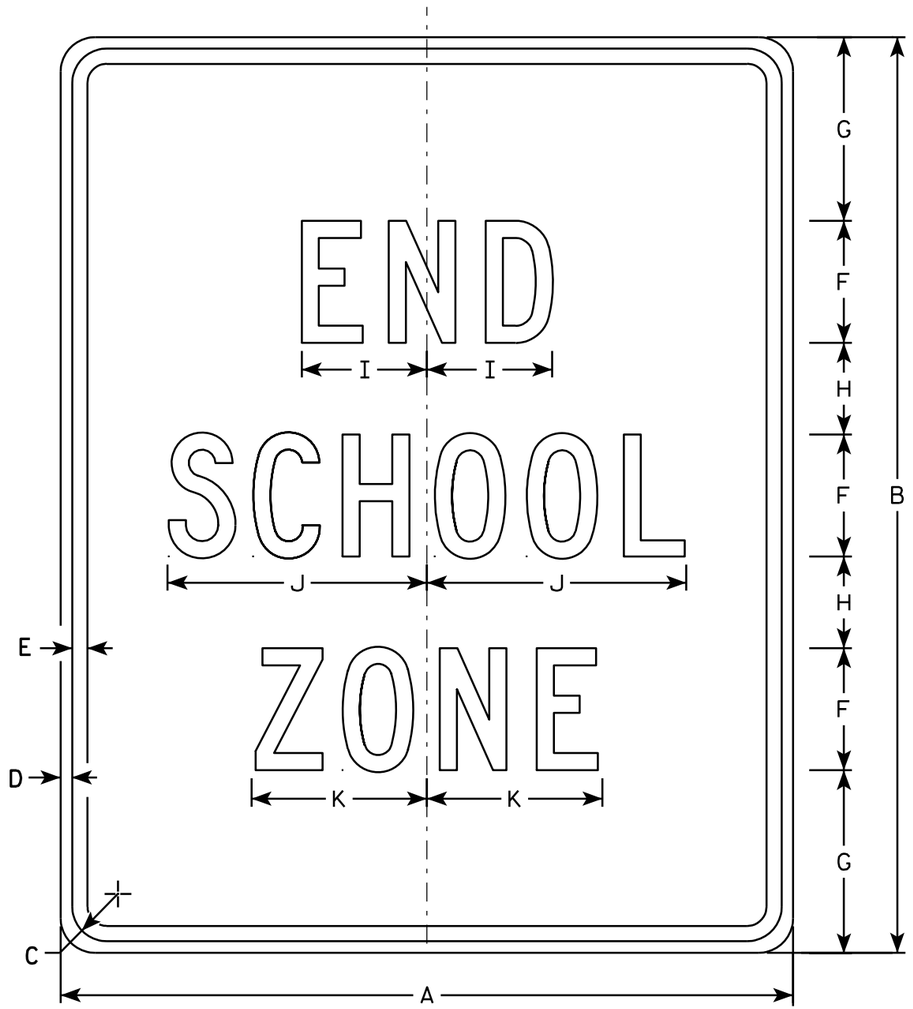
STANDARD SIGN
S1-1

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 6/30/05 PLATE NO. S1-1.8

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 161	E



S5-2

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - White
   Message - Black
3. Message Series - C
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.

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	24	30	1 1/8	3/8	1/2	4	6	3	4 1/8	8 1/2	5 3/4																5.0
3	36	42	1 5/8	5/8	3/4	6	7	5	6 1/8	12 5/8	8 5/8																10.5
4																											
5																											

STANDARD SIGN
S5-2

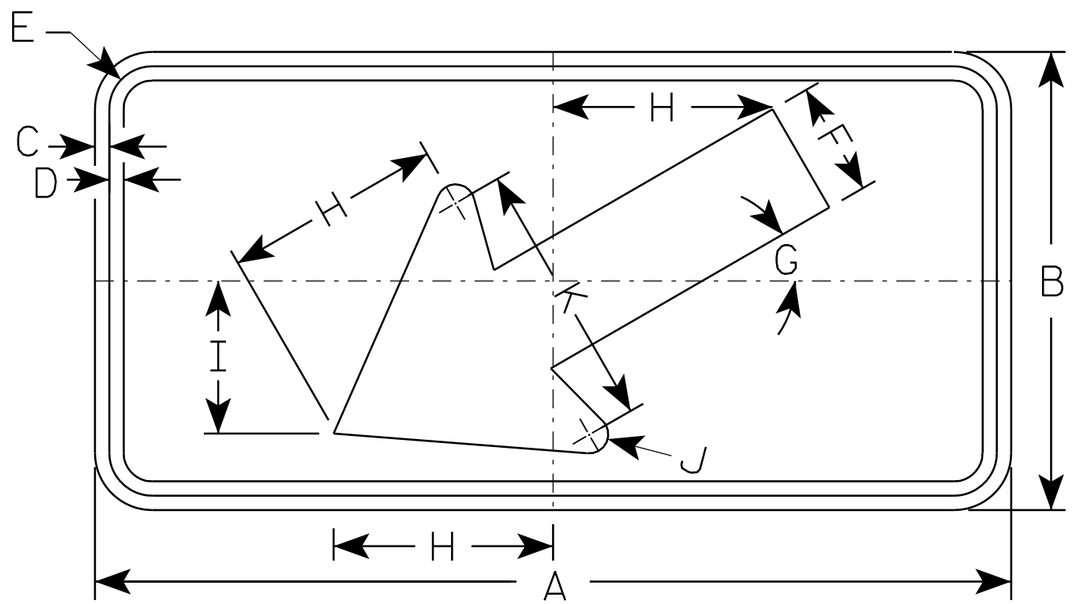
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/8/11 PLATE NO. S5-2.2

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 162 | E

7



S16-7L

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Yellow-Green
   Message - Black
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
4. S16-7R are the same as S16-7L except the arrow is reversed along the vertical centerline.

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	24	12	3/8	3/8	1 1/8	3	30°	5 3/4	4	1/2	7																2.0
2S	30	18	3/8	1/2	1 1/8	4 1/2	30°	8 1/2	6	5/8	10 1/4																3.75
2M	30	18	3/8	1/2	1 1/8	4 1/2	30°	8 1/2	6	5/8	10 1/4																3.75
3	30	18	3/8	1/2	1 1/8	4 1/2	30°	8 1/2	6	5/8	10 1/4																3.75
4	48	24	1/2	5/8	1 3/8	6	30°	11 1/2	8	1	14																8.0
5																											

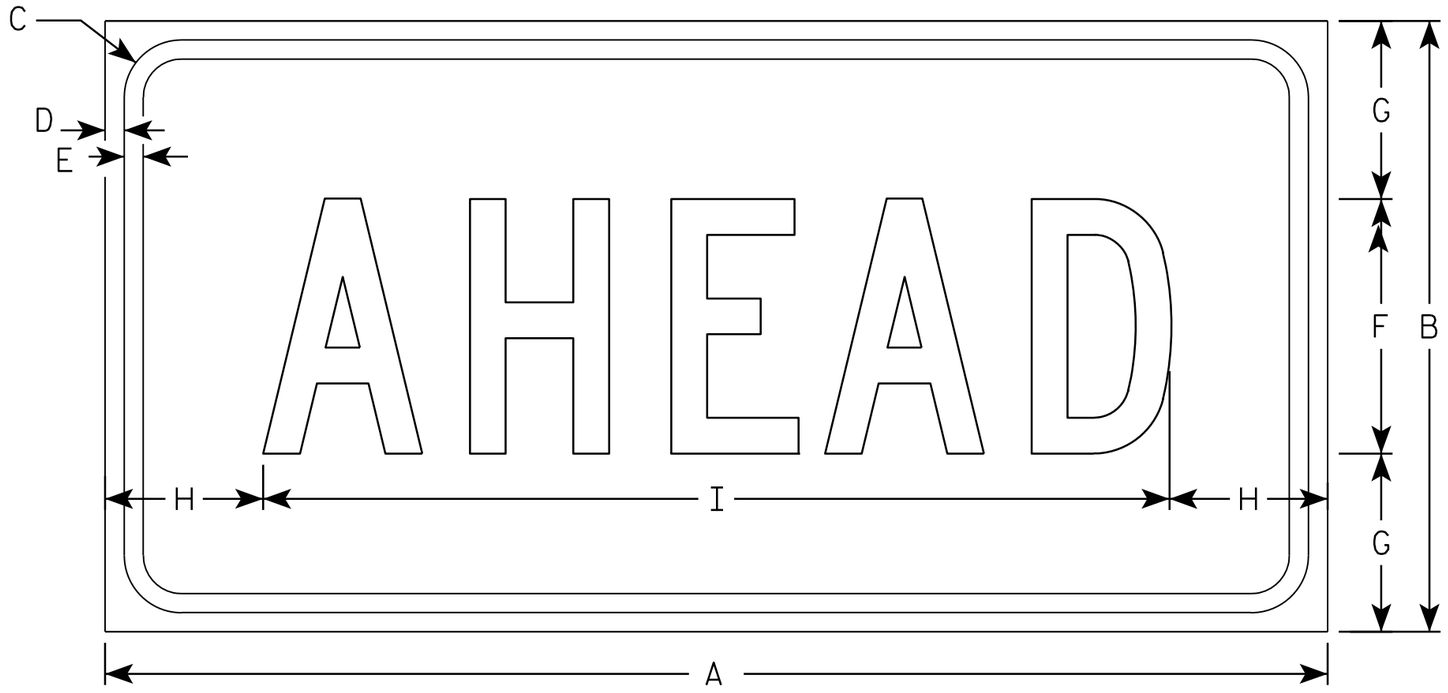
STANDARD SIGN
S16-7

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 7/22/13 PLATE NO. S16-7.1

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 163 | E



S16-9P

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Yellow-Green
   Message - Black
3. Message Series - C
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.

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	24	12	1 1/8	3/8	3/8	5	3 1/2	3 1/8	17 3/4																		2.0
2S	30	18	1 1/8	3/8	1/2	7	5 1/2	2 3/4	24 1/2																		3.75
2M	30	18	1 1/8	3/8	1/2	7	5 1/2	2 3/4	24 1/2																		3.75
3	30	18	1 1/8	3/8	1/2	7	3 1/2	2 3/4	24 1/2																		3.75
4	48	24	1 3/8	1/2	5/8	10	7	6 1/8	35 3/4																		8.0
5																											

STANDARD SIGN
S16-9P

WISCONSIN DEPT OF TRANSPORTATION

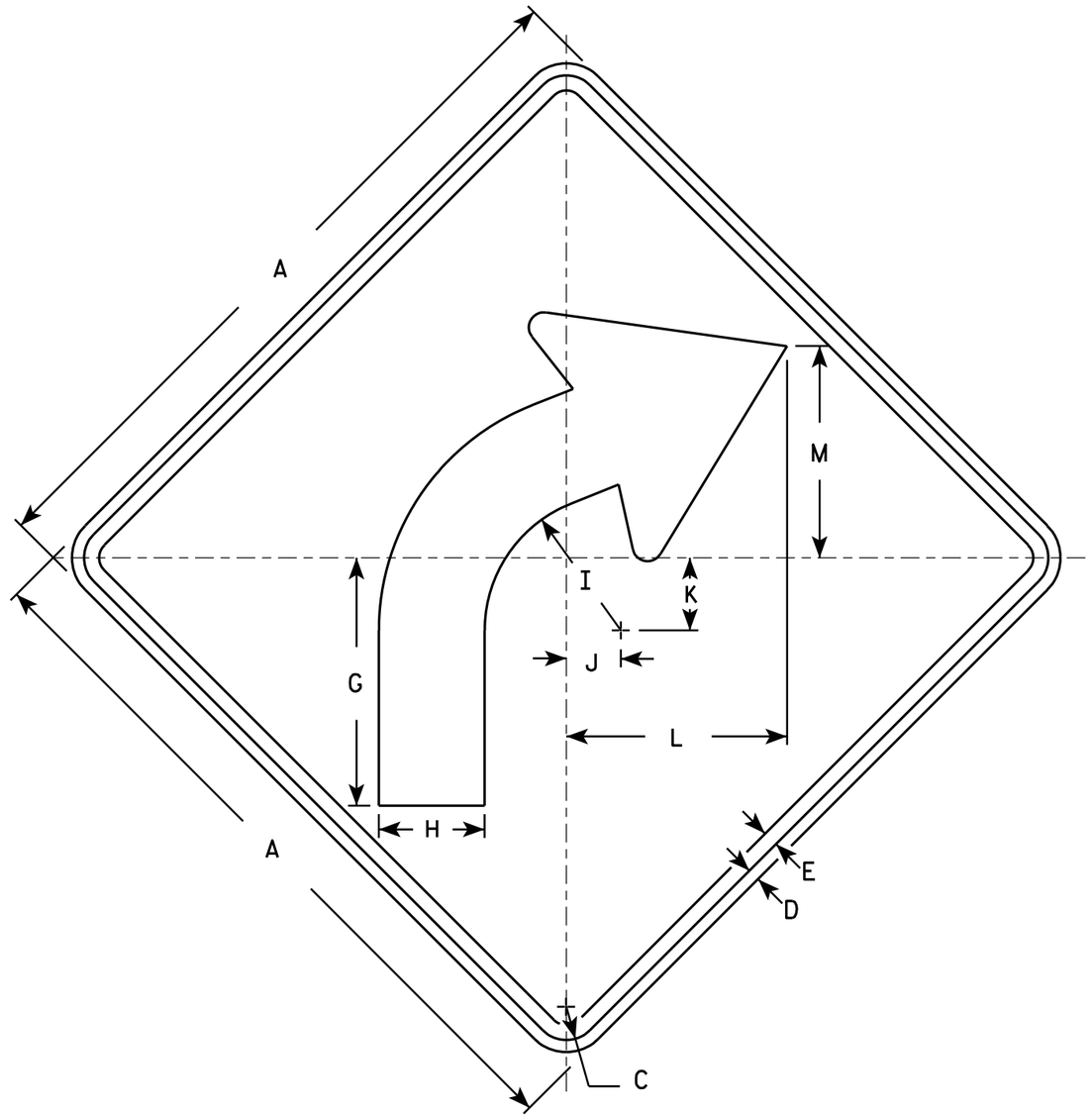
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 7/22/13 PLATE NO. S16-9P.1

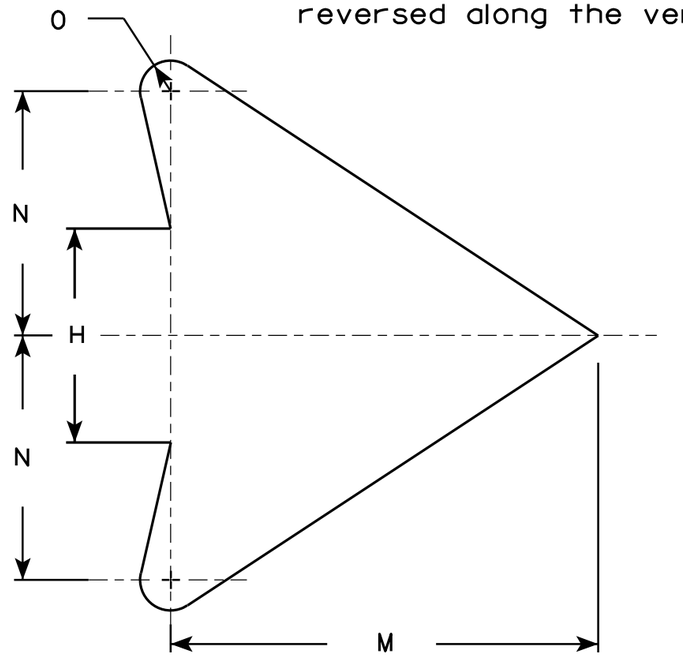
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 164 | E

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Yellow
   Message - Black
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
4. W1-2L is the same as W1-2R except the arrow is reversed along the vertical centerline.



W1-2R



ARROW DETAIL

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	24		1 1/8	3/8	1/2		8 1/4	3 1/2	4 1/2	1 3/4	2 3/8	7 1/4	7	4	1/2												4.0
2S	30		1 3/8	1/2	5/8		10 1/4	4 3/8	5 5/8	2 1/4	3	9 1/8	8 3/4	5	5/8												6.25
2M	36		1 5/8	5/8	3/4		12 3/8	5 1/4	6 3/4	2 5/8	3 1/2	10 7/8	10 1/2	6	3/4												9.0
3	36		1 5/8	5/8	3/4		12 3/8	5 1/4	6 3/4	2 5/8	3 1/2	10 7/8	10 1/2	6	3/4												9.0
4	36		1 5/8	5/8	3/4		12 3/8	5 1/4	6 3/4	2 5/8	3 1/2	10 7/8	10 1/2	6	3/4												9.0
5	48		2 1/4	3/4	1		16 1/2	7	9	3 1/2	4 5/8	14 1/2	14	8	1												16.0

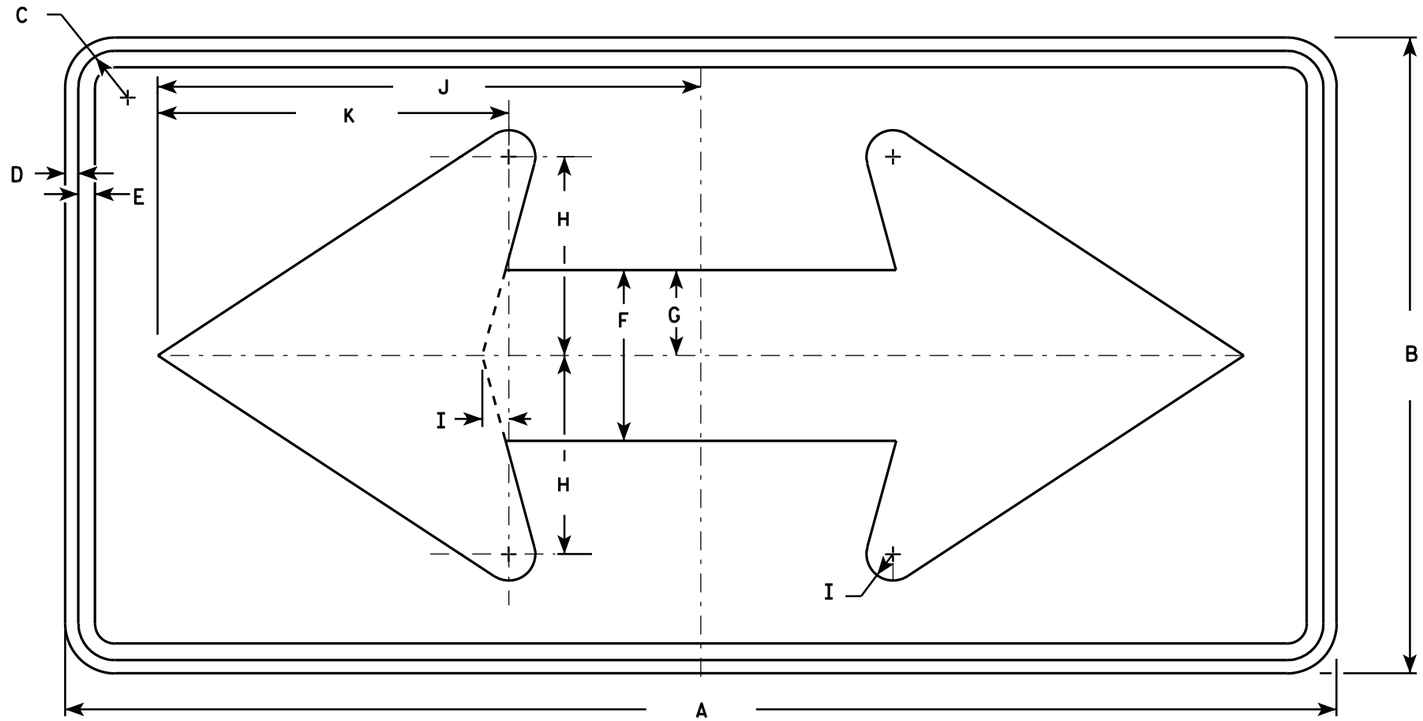
STANDARD SIGN
W1-2

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 5/15/12 PLATE NO. W1-2.10

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 165	E



W1-7

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Yellow
   Message - Black
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.

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	36	18	1 1/8	3/8	1/2	5	2 1/2	5 3/4	3/4	15 5/8	10 1/8																4.5
2S	48	24	1 3/8	1/2	5/8	6 1/2	3 1/4	7 1/2	1	20 1/2	13 1/4																8.0
2M	48	24	1 3/8	1/2	5/8	6 1/2	3 1/4	7 1/2	1	20 1/2	13 1/4																8.0
3	60	30	1 3/8	1/2	5/8	8	4	9 1/4	1 1/4	25 3/8	16 1/4																12.5
4	60	30	1 3/8	1/2	5/8	8	4	9 1/4	1 1/4	25 3/8	16 1/4																12.5
5	96	48	2 1/4	3/4	1	13	6 1/2	15	2	41	26 1/2																32.0

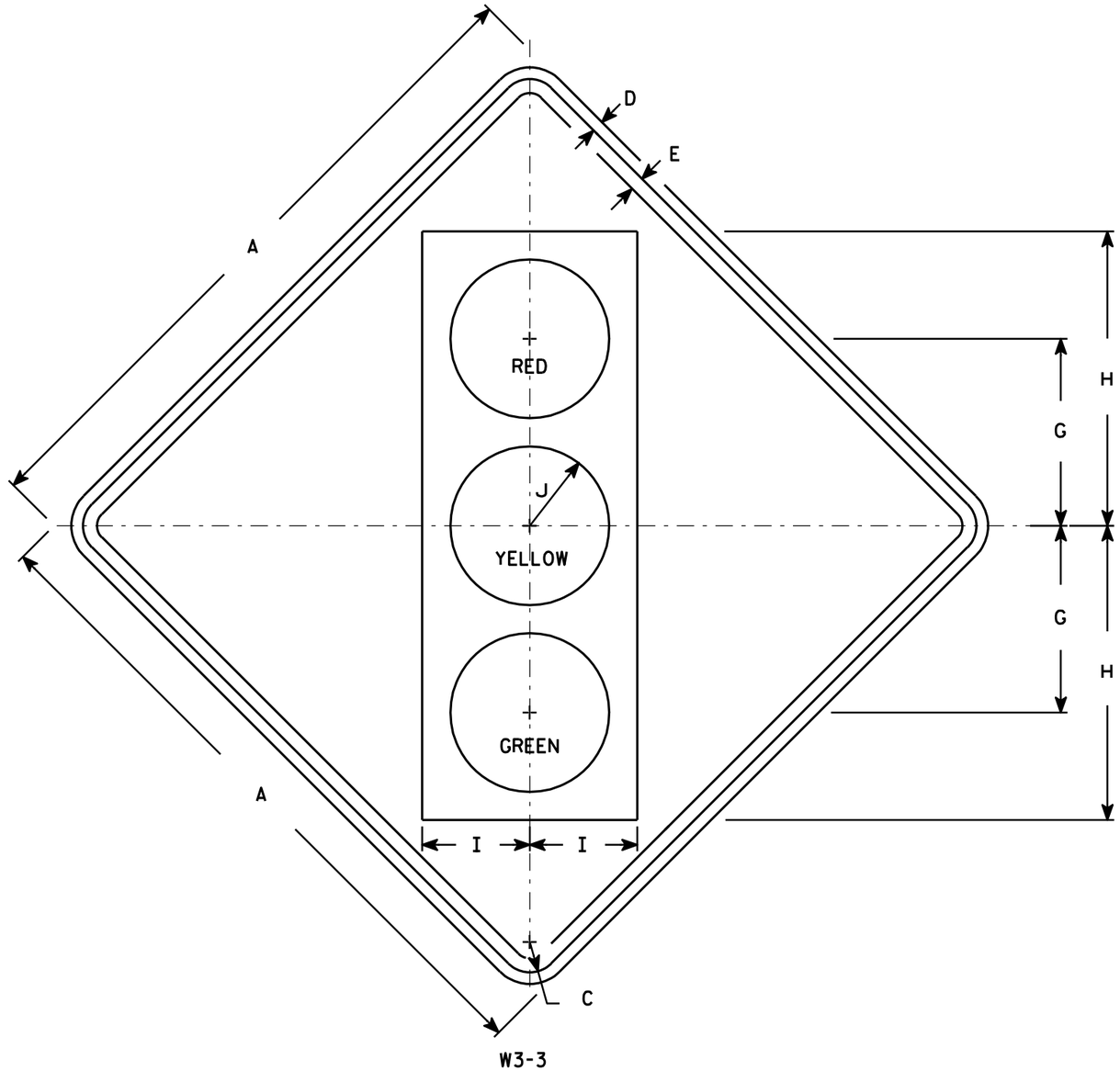
STANDARD SIGN
W1-7

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 6/7/10 PLATE NO. W1-7.7

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 166 | E



NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Yellow
   Message - See Note 4
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
4. Symbol and border are non-reflective black.
   Top circle - Type H Reflectorized Red
   Center circle - Same as background
   Bottom circle - Type H Reflectorized Green

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	30		1 3/8	1/2	5/8		8 3/4	13 3/4	5	3 3/4																	6.25
2S	36		1 5/8	5/8	3/4		10	15 3/4	5 3/4	4 1/4																	9.0
2M	36		1 5/8	5/8	3/4		10	15 3/4	5 3/4	4 1/4																	9.0
3	36		1 5/8	5/8	3/4		10	15 3/4	5 3/4	4 1/4																	9.0
4	48		2 1/4	3/4	1		12 1/2	20	7 1/2	5																	16.0
5	48		2 1/4	3/4	1		12 1/2	20	7 1/2	5																	16.0

STANDARD SIGN
W3-3

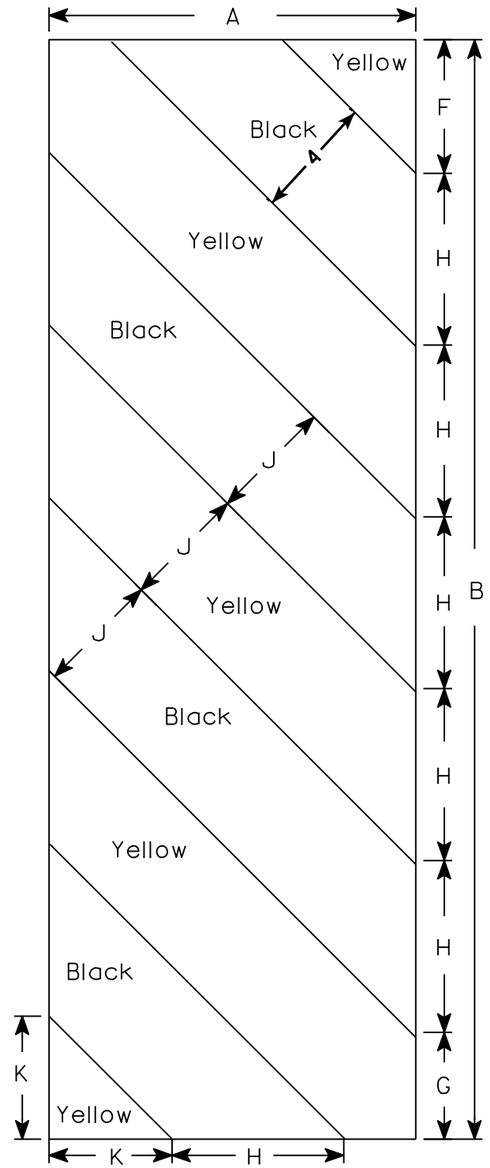
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

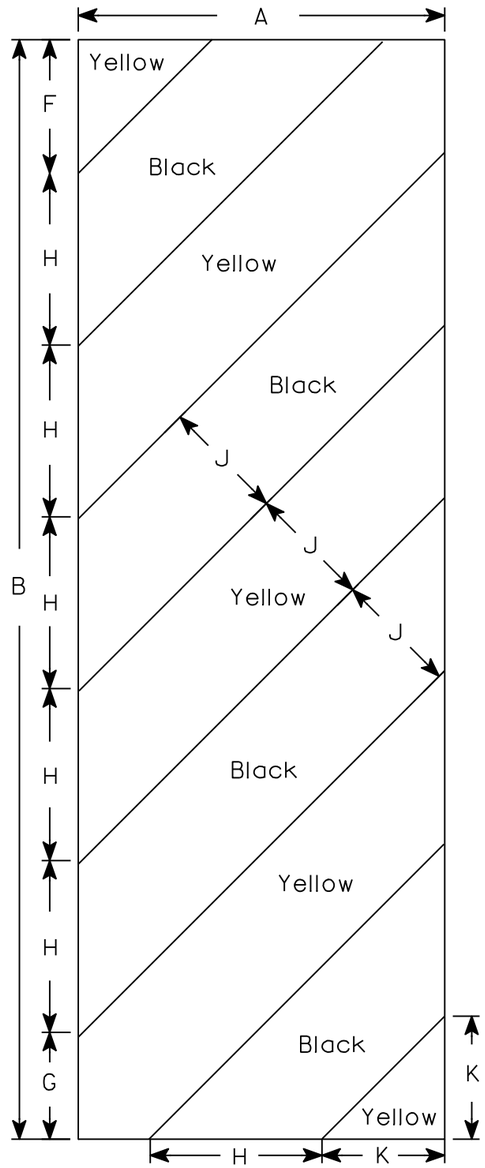
DATE 6/7/10 PLATE NO. W3-3.11

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 167 | E

FILE NAME : C:\Users\PROJECTS\tr_stdplate\W33.DGN PLOT DATE : 07-JUN-2010 13:07 PLOT BY : ditjph PLOT NAME : PLOT SCALE : 7.448805:1.000000
WISDOT/CADDS SHEET 42



W5-52L



W5-52R

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Yellow
   Message - Black
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
4. Alternate colors of stripes as shown.

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	12	36				4 3/8	3 1/2	5 5/8	45°	4	4																3.0
2M	12	36				4 3/8	3 1/2	5 5/8	45°	4	4																3.0
3	18	54				6	5 1/2	8 1/2	45°	6	6 9/16																6.75
4																											
5																											

STANDARD SIGN

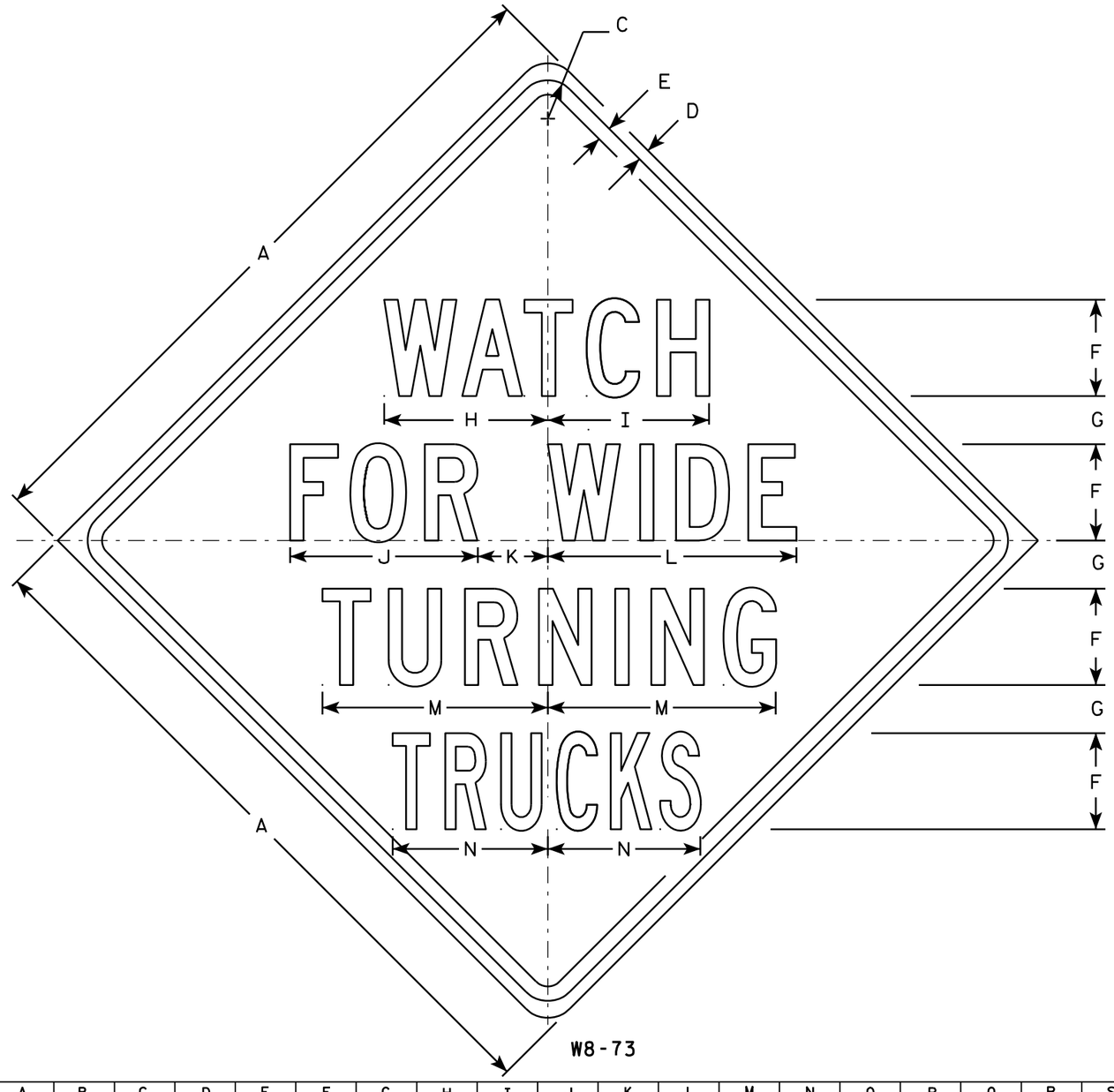
W5-52L & W5-52R

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 5/29/12 PLATE NO. W5-52.9

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 168 | E



NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Yellow
   Message - Black
3. Message Series - C except line 4 Series B
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.

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	30		1 3/8	1/2	5/8	4	2	6 7/8	6 3/4	7 7/8	3	10 3/8	9 1/2	6 1/2													6.25
2M	36		1 5/8	5/8	3/4	5	2 1/2	8 1/2	8 3/8	9 3/4	3 5/8	12 7/8	11 3/4	8													9.0
3	36		1 5/8	5/8	3/4	5	2 1/2	8 1/2	8 3/8	9 3/4	3 5/8	12 7/8	11 3/4	8													9.0
4																											
5																											

STANDARD SIGN
W8-73

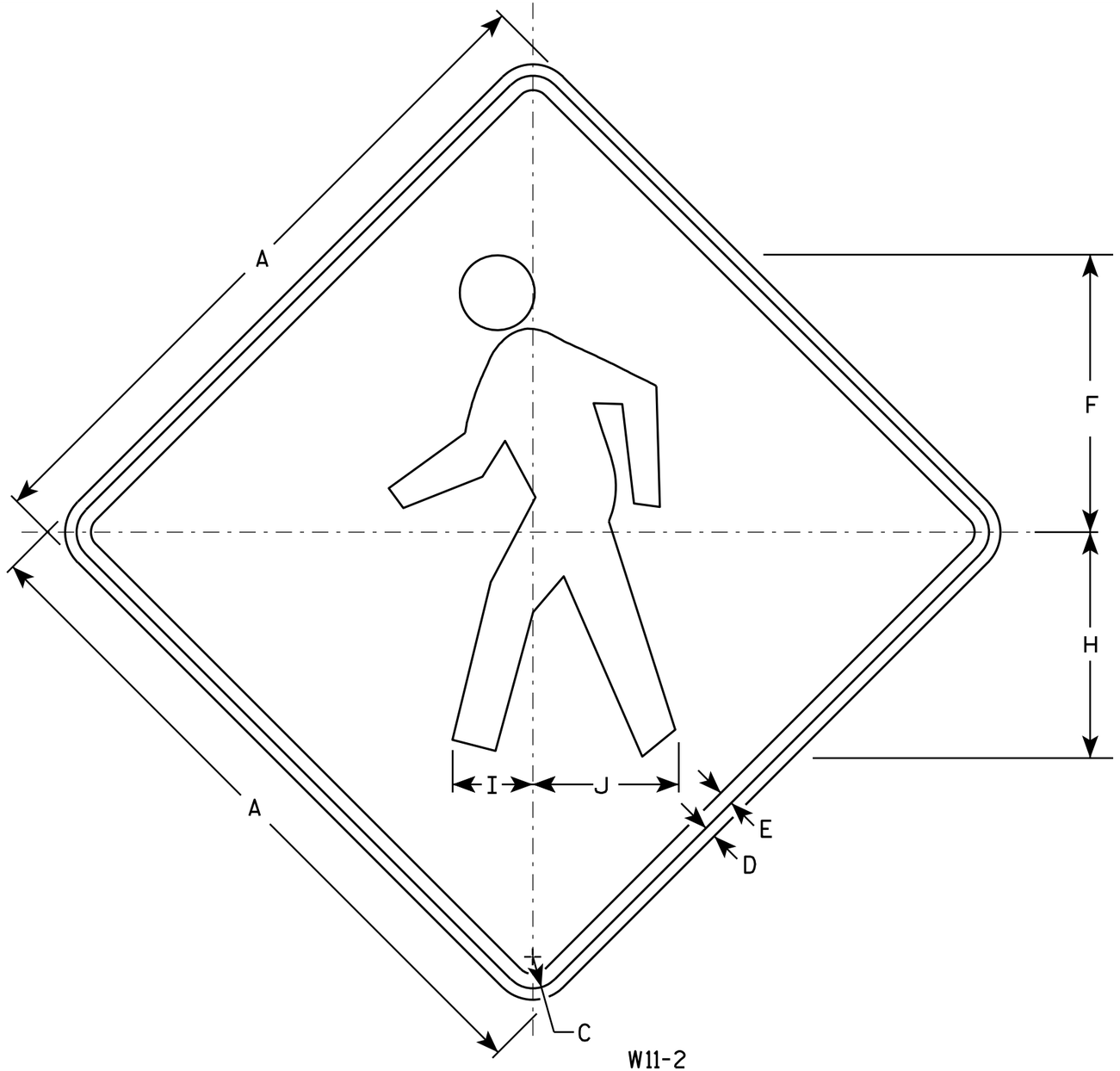
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 03/18/13 PLATE NO. W8-73.3

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 169 | E

FILE NAME : C:\CAEFiles\Projects\tr_stdplate\W873.DGN PLOT DATE : 18-MAR-2013 11:38 PLOT BY : mscsja PLOT NAME : PLOT SCALE : 6.946654:1.000000
WISDOT/CADDS SHEET 42



W11-2

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Yellow
   Message - Black
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.

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	24		1 1/8	3/8	1/2	9 3/4		7 7/8	2 7/8	5 1/8																	4.0
2S	30		1 3/8	1/2	5/8	12 1/8		9 7/8	3 1/2	6 3/8																	6.25
2M	36		1 5/8	5/8	3/4	14 1/2		11 7/8	4 1/4	7 5/8																	9.0
3	36		1 5/8	5/8	3/4	14 1/2		11 7/8	4 1/4	7 5/8																	9.0
4	48		2 1/4	3/4	1	19 3/8		15 3/4	5 5/8	10 1/4																	16.0
5																											

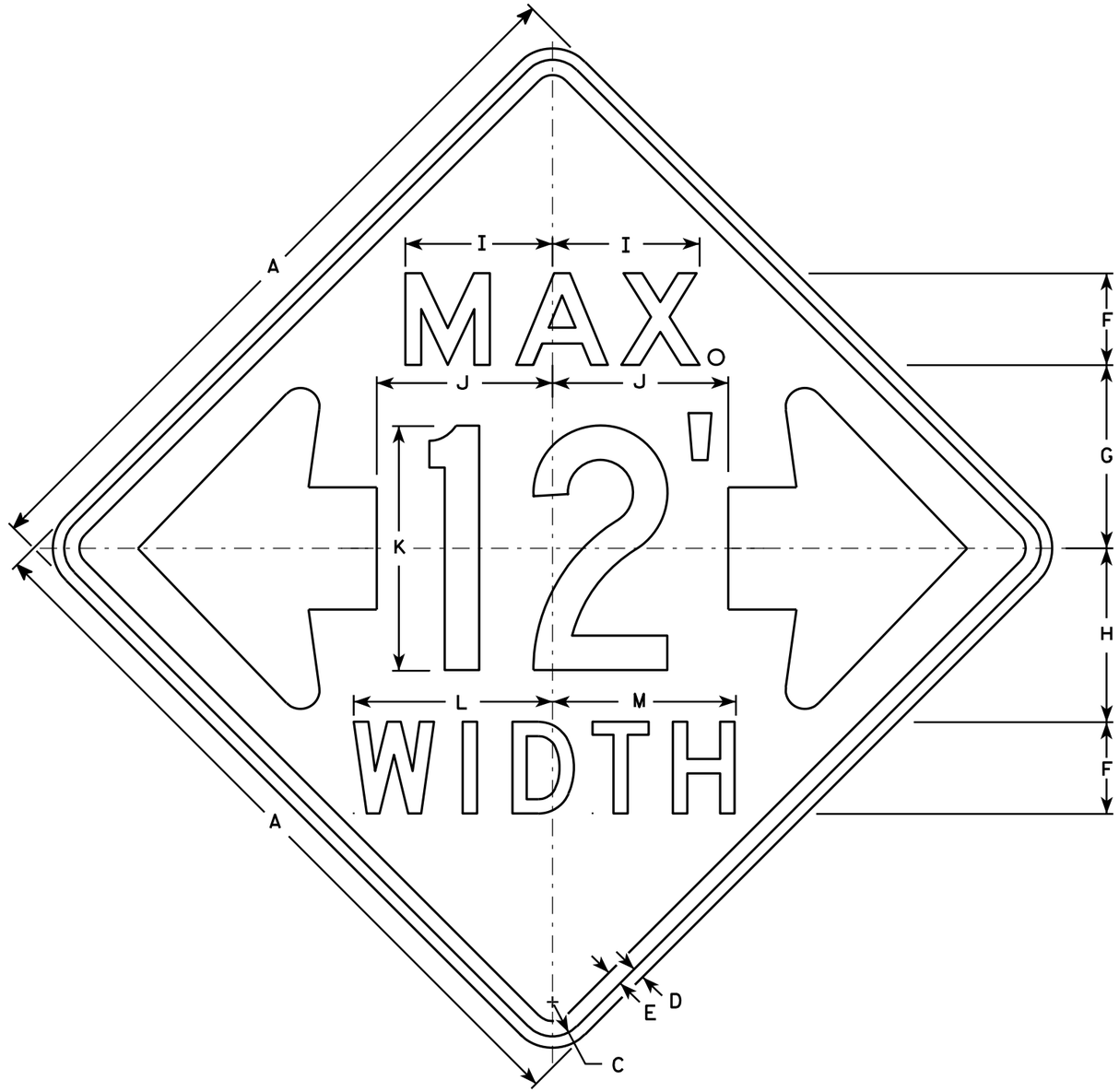
STANDARD SIGN
W11-2

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 6/7/10 PLATE NO. W11-2.7

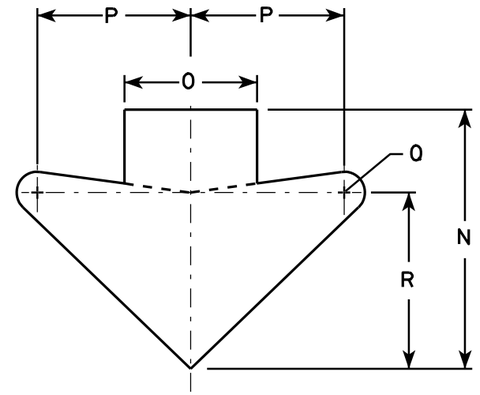
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 170	E



W12-52

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Orange
   Message - Black
3. Message Series - See note 5
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. The top line is series E, the numerals are series C, and the bottom line is series D.
6. Substitute appropriate numerals and adjust spacing as required.



ARROW DETAIL

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	48		2 1/4	3/4	1	6	12	11 3/8	9 5/8	11 1/2	16	13	12	15 5/8	8	9 1/4	1 1/4	10 5/8									16.0
2M	48		2 1/4	3/4	1	6	12	11 3/8	9 5/8	11 1/2	16	13	12	15 5/8	8	9 1/4	1 1/4	10 5/8									16.0
3																											
4																											
5																											

STANDARD SIGN
W12-52

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/16/11 PLATE NO. W12-52.7

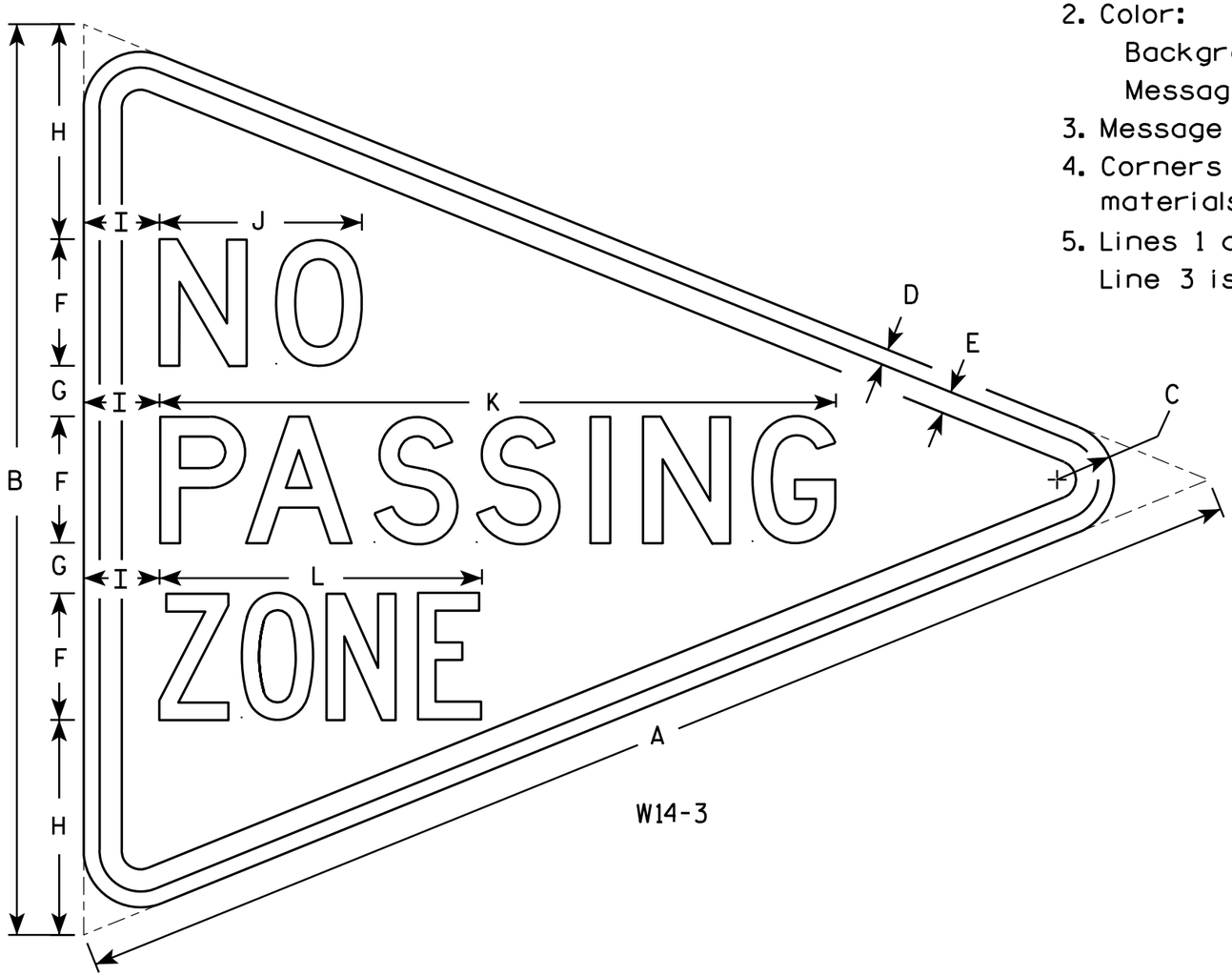
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 171 | E

7

FILE NAME : C:\Users\PROJECTS\tr_stdplate\W1252.DGN PLOT DATE : 16-MAR-2011 14:45 PLOT BY : mscj9h PLOT NAME : PLOT SCALE : 9.137199:1.000000
WISDOT/CADDS SHEET 42

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Yellow
   Message - Black
3. Message Series - See note 5
4. Corners and borders shall be rounded on all base materials for this sign.
5. Lines 1 and 2 are Series D.
   Line 3 is series C.



W14-3

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	48	36	2 1/4	5/8	7/8	5	2	8 1/2	3	8	26 3/4	12 3/4															6.0
2M	48	36	2 1/4	5/8	7/8	5	2	8 1/2	3	8	26 3/4	12 3/4															6.0
3	64	48	3	3/4	1 1/4	6	3	12	4	10 3/4	33 5/8	16 1/2															10.7
4																											
5																											

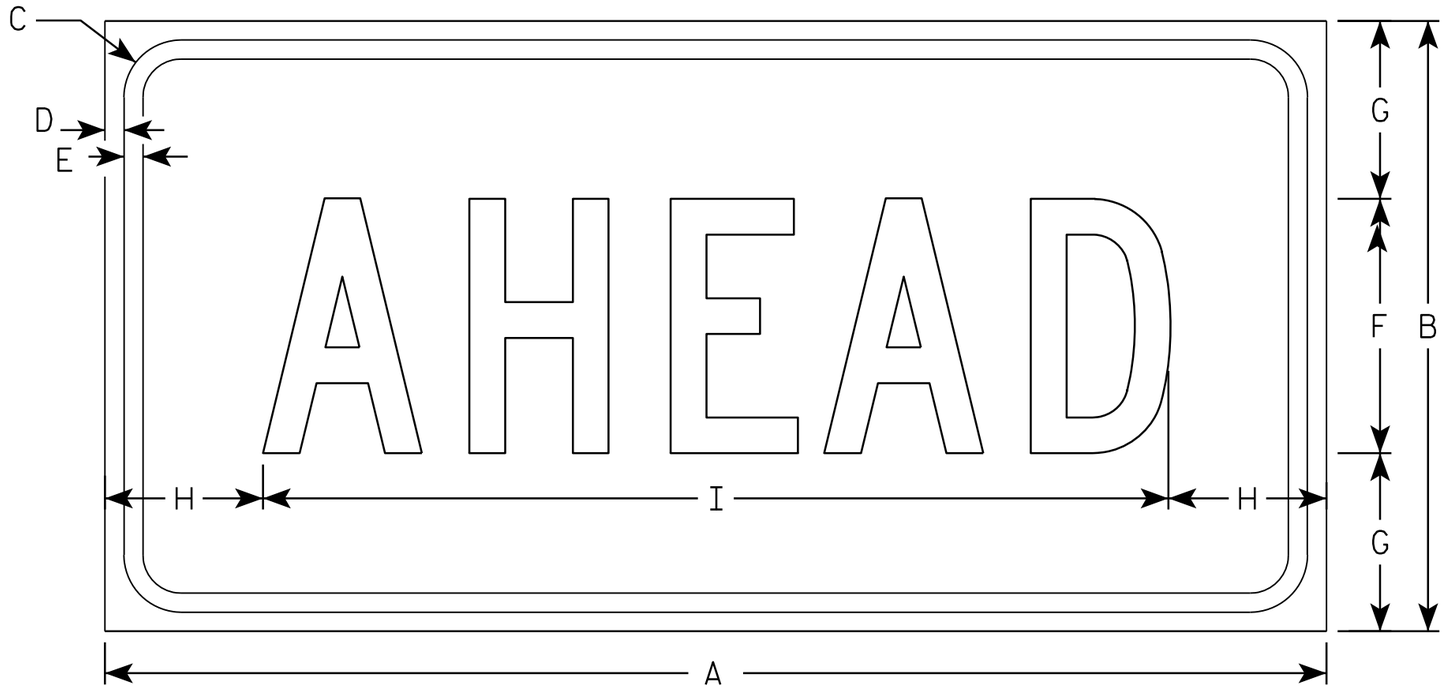
STANDARD SIGN
W14-3

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 6/7/10 PLATE NO. W14-3.9

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 172	E



W16-9P

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Yellow
   Message - Black
3. Message Series - C
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.

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	24	12	1 1/8	3/8	3/8	5	3 1/2	3 1/8	17 3/4																		2.0
2M	30	18	1 1/8	3/8	1/2	7	5 1/2	2 3/4	24 1/2																		3.75
3	30	18	1 1/8	3/8	1/2	7	3 1/2	2 3/4	24 1/2																		3.75
4	48	24	1 3/8	1/2	5/8	10	7	6 1/8	35 3/4																		8.0
5																											

STANDARD SIGN
W16-9P

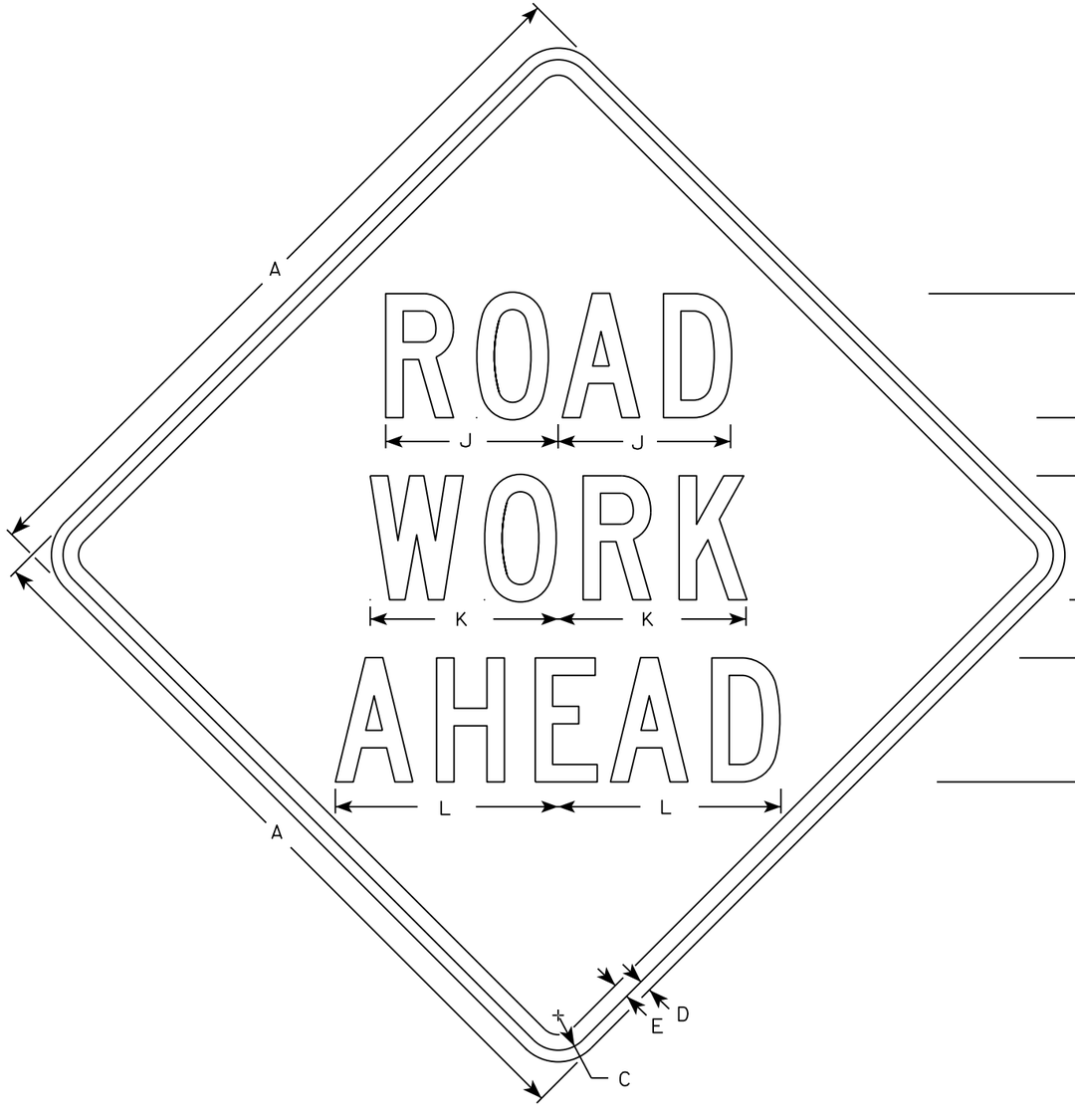
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

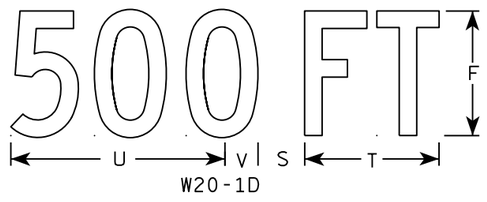
DATE 12/28/10 PLATE NO. W16-9P.6

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 173 | E

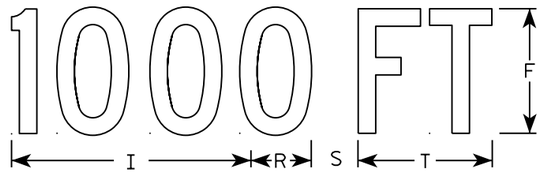
FILE NAME : C:\Users\PROJECTS\tr_stdplate\W169P.DGN PLOT DATE : 28-DEC-2010 13:39 PLOT BY : dotsja PLOT NAME : PLOT SCALE : 2.979524:1.000000
WISDOT/CADDS SHEET 42



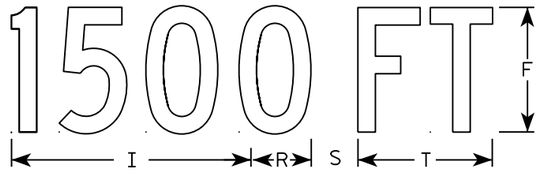
W20-1A



W20-1D

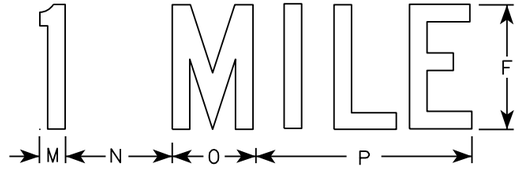


W20-1C

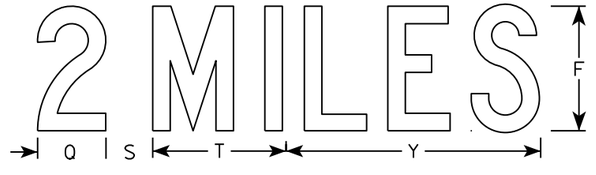


W20-1B

W20-1G



W20-1F



W20-1E

NOTES

1. Sign is Type II - Type F Reflective
2. Color:
   Background - Orange
   Message - Black
3. Message Series - C
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.

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	36		1 3/8	1/2	5/8	5	2 5/8	3 1/4	10 1/8	7	7 5/8	8 7/8	1 1/8	4 1/2	3 1/2	9		2 1/2	2 1/4	5 5/8	9	1 3/8	8	1 3/4	10 3/4	6	9.0
2S	48		2 1/4	3/4	1	8	3 3/4	5 1/8	15 3/8	11 1/8	12 1/8	14 3/8	1 5/8	6 7/8	5 3/8	13 7/8	4 3/8	3 7/8	3	8 5/8	13 3/4	2 1/8	11 7/8	2 3/4	16 3/8	9	16.0
2M	48		2 1/4	3/4	1	8	3 3/4	5 1/8	15 3/8	11 1/8	12 1/8	14 3/8	1 5/8	6 7/8	5 3/8	13 7/8	4 3/8	3 7/8	3	8 5/8	13 3/4	2 1/8	11 7/8	2 3/4	16 3/8	9	16.0
3	48		2 1/4	3/4	1	8	3 3/4	5 1/8	15 3/8	11 1/8	12 1/8	14 3/8	1 5/8	6 7/8	5 3/8	13 7/8	4 3/8	3 7/8	3	8 5/8	13 3/4	2 1/8	11 7/8	2 3/4	16 3/8	9	16.0
4	48		2 1/4	3/4	1	8	3 3/4	5 1/8	15 3/8	11 1/8	12 1/8	14 3/8	1 5/8	6 7/8	5 3/8	13 7/8	4 3/8	3 7/8	3	8 5/8	13 3/4	2 1/8	11 7/8	2 3/4	16 3/8	9	16.0
5	48		2 1/4	3/4	1	8	3 3/4	5 1/8	15 3/8	11 1/8	12 1/8	14 3/8	1 5/8	6 7/8	5 3/8	13 7/8	4 3/8	3 7/8	3	8 5/8	13 3/4	2 1/8	11 7/8	2 3/4	16 3/8	9	16.0

STANDARD SIGN
W20-1A, B, C, D, F & G

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

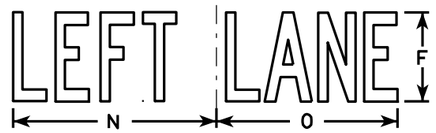
DATE 5/07/15 PLATE NO. W20-1.10

PROJECT NO:

SHEET NO: E

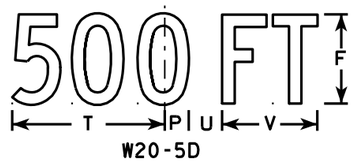
FILE NAME : C:\CAEfiles\Projects\tr_stdplate\W201.DGN PLOT DATE : 01-DEC-2015 18:24 PLOT BY : $$ plotuser $$

W20-56A

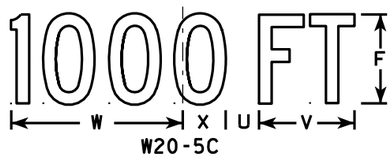


W20-55A

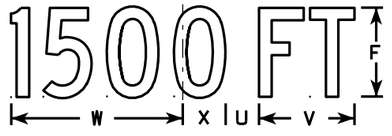
W20-5A



W20-5D



W20-5C



W20-5B

W20-5G

W20-5F

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Orange
   Message - Black
3. Message Series - See Note 5
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. " _____ LANE" is Series B.
   All other copy is Series C.

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	36	6	1 5/8	5/8	3/4	5	1/8	2 1/2	13 1/8	10 3/4	9 1/2	14 1/4	13 5/8	12	12	1 3/8	1 1/8	4 1/2	3 1/2	9	1 1/8	5 5/8	10 1/8	2 1/2	1 3/4	8	9.0
2S	48	8	2 1/4	3/4	1	7	1 1/4	3 1/4	17 1/2	14 3/8	12 5/8	19	18 3/8	16	14 1/4	1 7/8	1 1/2	6	4 5/8	12	2 5/8	7 1/2	13 1/2	3 3/8	2 3/8	10 5/8	16.0
2M	48	8	2 1/4	3/4	1	7	1 1/4	3 1/4	17 1/2	14 3/8	12 5/8	19	18 3/8	16	14 1/4	1 7/8	1 1/2	6	4 5/8	12	2 5/8	7 1/2	13 1/2	3 3/8	2 3/8	10 5/8	16.0
3	48	8	2 1/4	3/4	1	7	1 1/4	3 1/4	17 1/2	14 3/8	12 5/8	19	18 3/8	16	14 1/4	1 7/8	1 1/2	6	4 5/8	12	2 5/8	7 1/2	13 1/2	3 3/8	2 3/8	10 5/8	16.0
4	48	8	2 1/4	3/4	1	7	1 1/4	3 1/4	17 1/2	14 3/8	12 5/8	19	18 3/8	16	14 1/4	1 7/8	1 1/2	6	4 5/8	12	2 5/8	7 1/2	13 1/2	3 3/8	2 3/8	10 5/8	16.0
5	48	8	2 1/4	3/4	1	7	1 1/4	3 1/4	17 1/2	14 3/8	12 5/8	19	18 3/8	16	14 1/4	1 7/8	1 1/2	6	4 5/8	12	2 5/8	7 1/2	13 1/2	3 3/8	2 3/8	10 5/8	16.0

STANDARD SIGN
W20-5A, B, C, D, F & G

WISCONSIN DEPT OF TRANSPORTATION

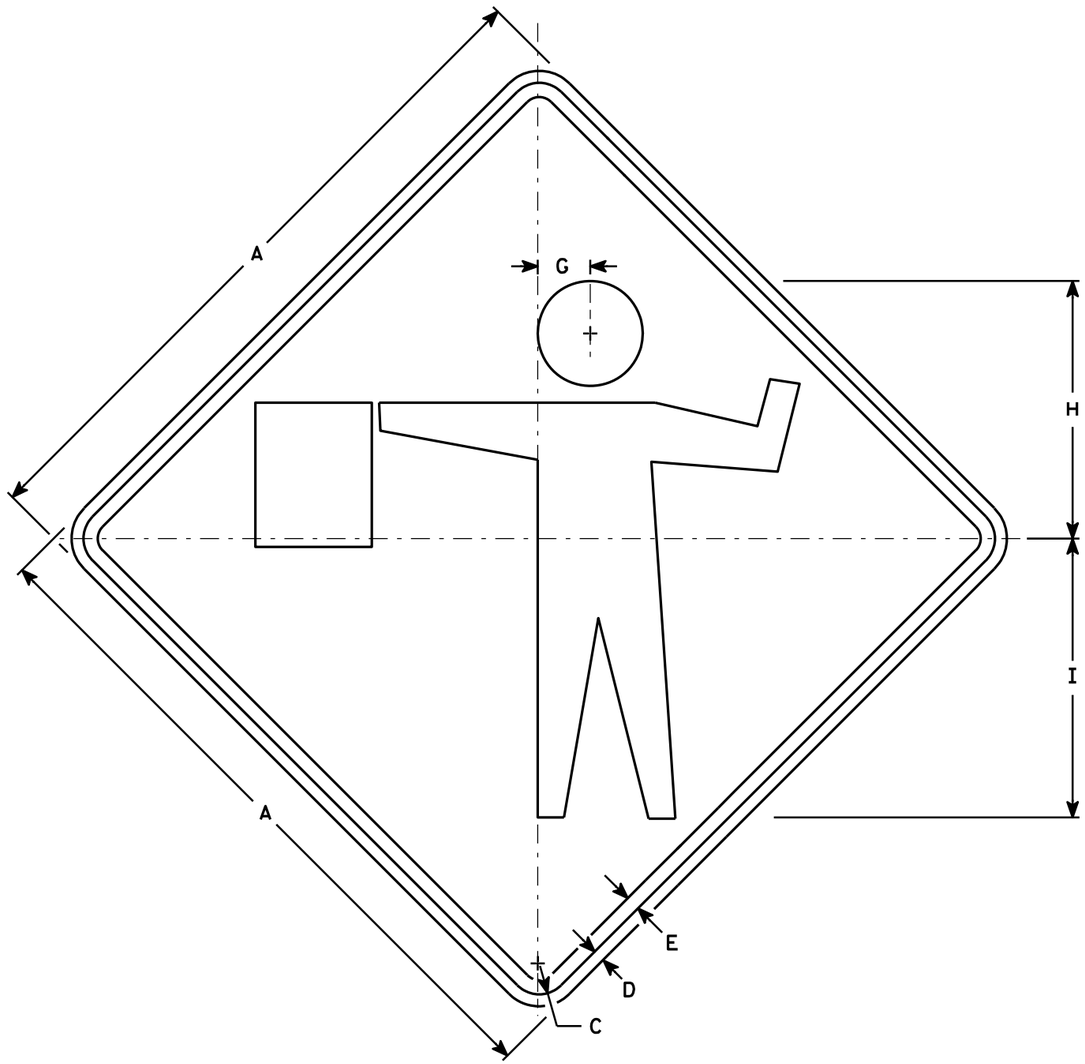
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/18/11 PLATE NO. W20-5.11

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 175 | E

7

FILE NAME : C:\Users\PROJECTS\tr_stdplate\W205.DGN PLOT DATE : 18-MAR-2011 12:15 PLOT BY : mscj9h PLOT NAME : PLOT SCALE : 11.918087:1.000000
WISDOT/CADDS SHEET 42



W20-7A

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Orange
   Message - Black
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.

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	36		1 5/8	5/8	3/4		2 3/4	13 1/2	14 5/8																		9.00
2S	48		2 1/4	3/4	1		3 3/4	18	19 1/2																		16.00
2M	48		2 1/4	3/4	1		3 3/4	18	19 1/2																		16.00
3	48		2 1/4	3/4	1		3 3/4	18	19 1/2																		16.00
4	48		2 1/4	3/4	1		3 3/4	18	19 1/2																		16.00
5	48		2 1/4	3/4	1		3 3/4	18	19 1/2																		16.00

STANDARD SIGN
W20-7A

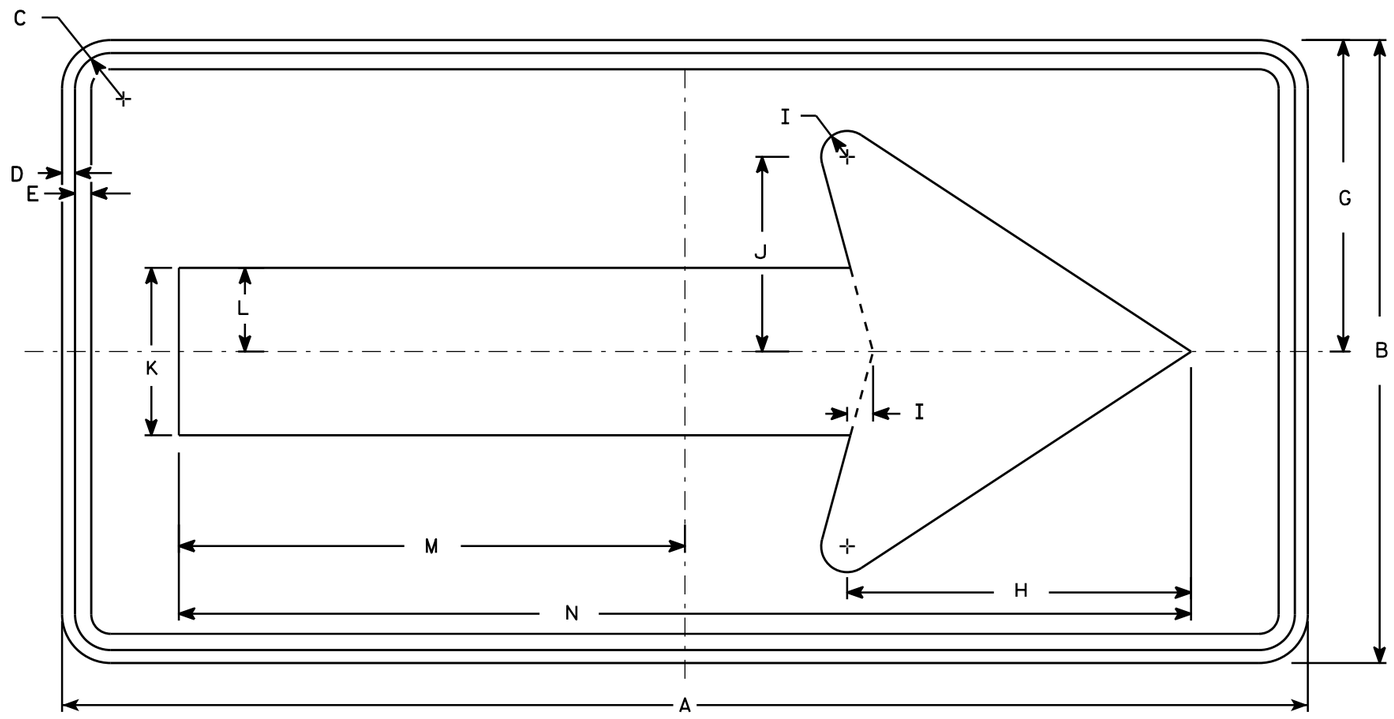
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/18/11 PLATE NO. W20-7A.5

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 176 | E

FILE NAME : C:\Users\PROJECTS\tr_stdplate\W207A.DGN PLOT DATE : 18-MAR-2011 13:14 PLOT BY : mscj9h PLOT NAME : PLOT SCALE : 7.945391:1.000000 WISDOT/CADDS SHEET 42



W01-6

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Orange
   Message - Black
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.

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	48	24	1 3/8	1/2	5/8		12	13 1/4	1	7 1/2	6 1/2	3 1/4	19 1/2	39													8.0
2M	48	24	1 3/8	1/2	5/8		12	13 1/4	1	7 1/2	6 1/2	3 1/4	19 1/2	39													8.0
3	60	30	1 3/8	1/2	5/8		15	16 1/4	1 1/4	9 1/4	8	4	24 3/8	48 3/4													12.5
4	60	30	1 3/8	1/2	5/8		15	16 1/4	1 1/4	9 1/4	8	4	24 3/8	48 3/4													12.5
5	60	30	1 3/8	1/2	5/8		15	16 1/4	1 1/4	9 1/4	8	4	24 3/8	48 3/4													12.5

STANDARD SIGN
W01-6

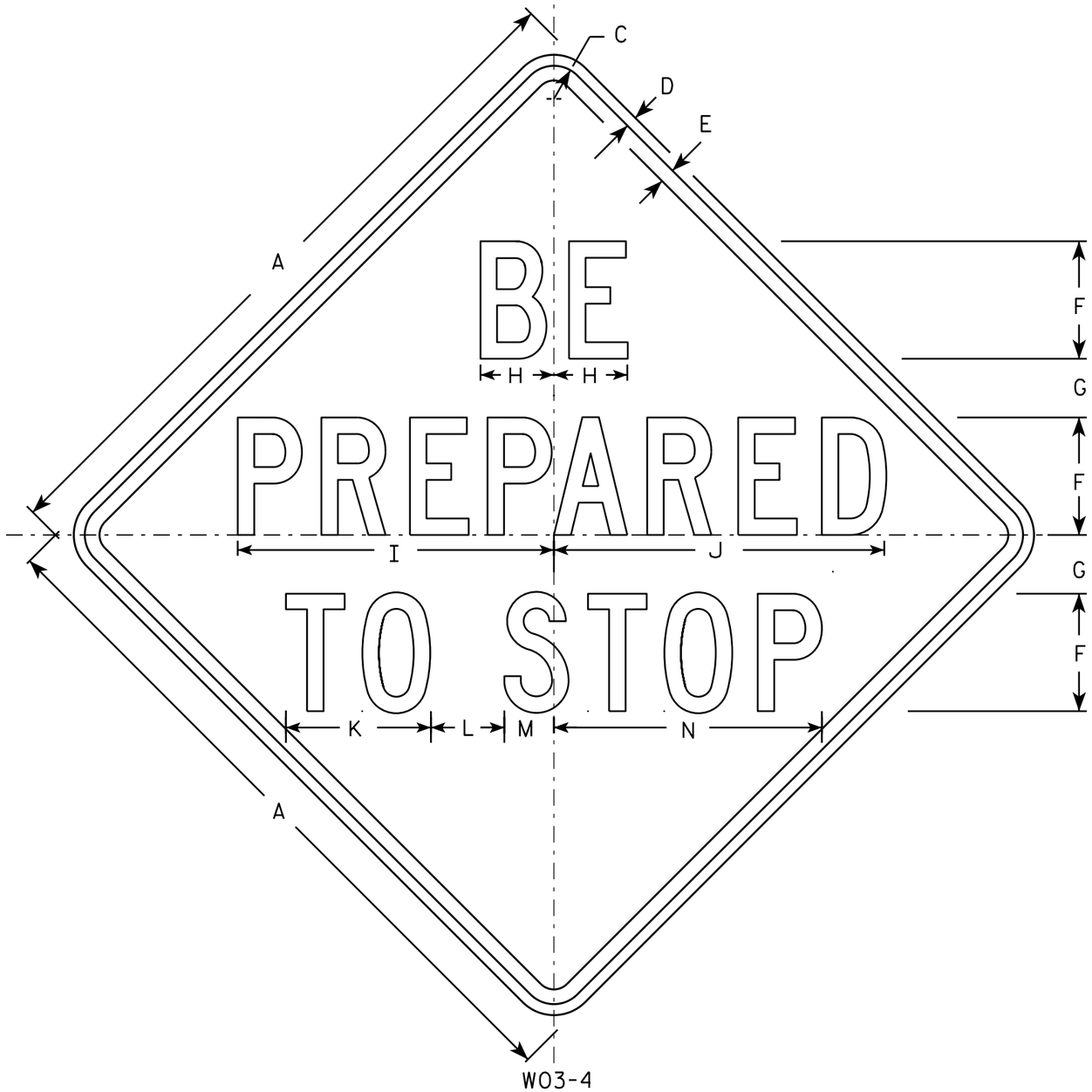
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 11/18/13 PLATE W01-6.1

PROJECT NO: | HWY: | COUNTY: | SHEET NO: E

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\W016.DGN PLOT DATE : 28-FEB-2014 11:37 PLOT BY : mscj9h PLOT NAME : PLOT SCALE : 5.837526:1.000000 WISDOT/CADDS SHEET 42



NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Orange
   Message - Black
3. Message Series - C
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.

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	36		1 3/8	1/2	5/8	6	2 1/2	3 3/4	15 7/8	16 7/8	7 3/8	4	2 3/8	13 3/4													9.0
2S	48		2 1/4	3/4	1	8	4	5	21 1/2	22 1/2	9 7/8	5	3 3/8	18 1/4													16.0
2M	48		2 1/4	3/4	1	8	4	5	21 1/2	22 1/2	9 7/8	5	3 3/8	18 1/4													16.0
3	48		2 1/4	3/4	1	8	4	5	21 1/2	22 1/2	9 7/8	5	3 3/8	18 1/4													16.0
4	48		2 1/4	3/4	1	8	4	5	21 1/2	22 1/2	9 7/8	5	3 3/8	18 1/4													16.0
5	48		2 1/4	3/4	1	8	4	5	21 1/2	22 1/2	9 7/8	5	3 3/8	18 1/4													16.0

STANDARD SIGN
W03-4

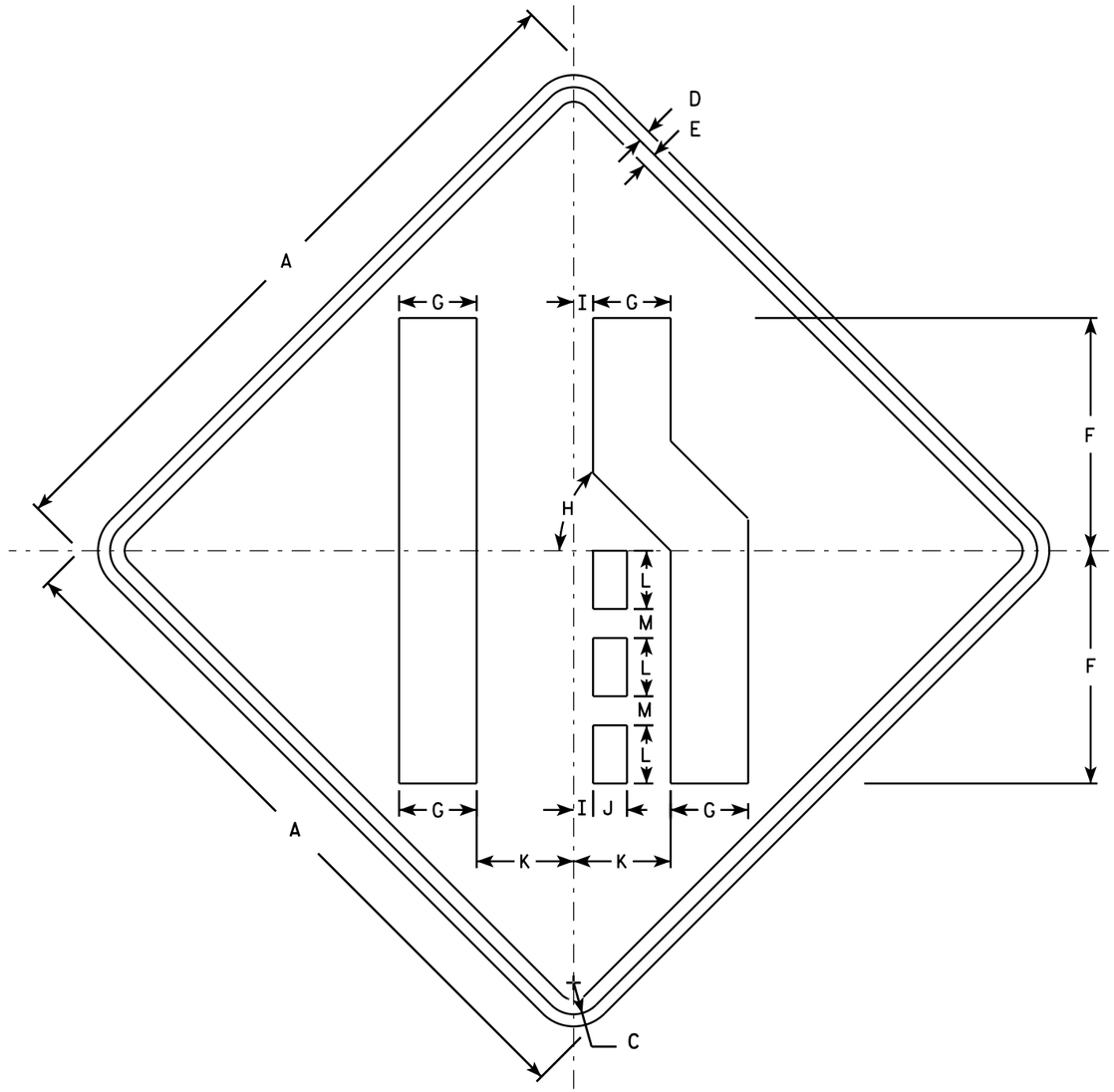
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 12/02/13 PLATE NO. W03-4.1

PROJECT NO: | HWY: | COUNTY: | SHEET NO: E

FILE NAME : C:\CAEFiles\Projects\tr_stdplate\W034.DGN PLOT DATE : 02-DEC-2013 14:02 PLOT BY : mscsja PLOT NAME : PLOT SCALE : 8.999518:1.000000
WISDOT/CADDS SHEET 42



W04-2R

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Orange
   Message - Black
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
4. W04-2L is the same as W04-2R except the symbol is reversed along the vertical centerline.

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	36		1 5/8	5/8	3/4	12	4	45°	1	1 3/4	5	3	1 1/2														9.0
2S	48		2 1/4	3/4	1	16	5 3/8	45°	1 1/4	2 3/8	6 3/4	4	2														16.0
2M	48		2 1/4	3/4	1	16	5 3/8	45°	1 1/4	2 3/8	6 3/4	4	2														16.0
3	48		2 1/4	3/4	1	16	5 3/8	45°	1 1/4	2 3/8	6 3/4	4	2														16.0
4	48		2 1/4	3/4	1	16	5 3/8	45°	1 1/4	2 3/8	6 3/4	4	2														16.0
5	48		2 1/4	3/4	1	16	5 3/8	45°	1 1/4	2 3/8	6 3/4	4	2														16.0

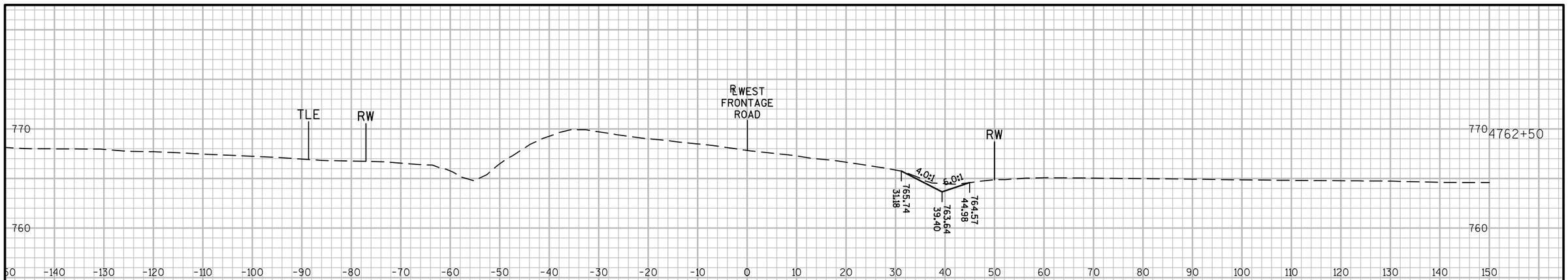
STANDARD SIGN
W04-2

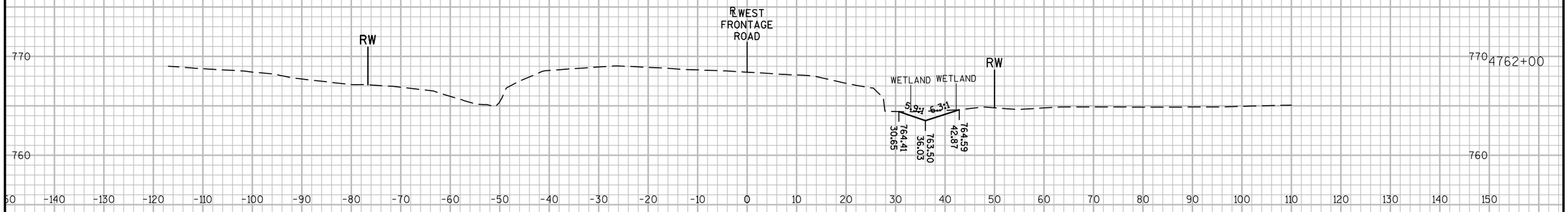
WISCONSIN DEPT OF TRANSPORTATION

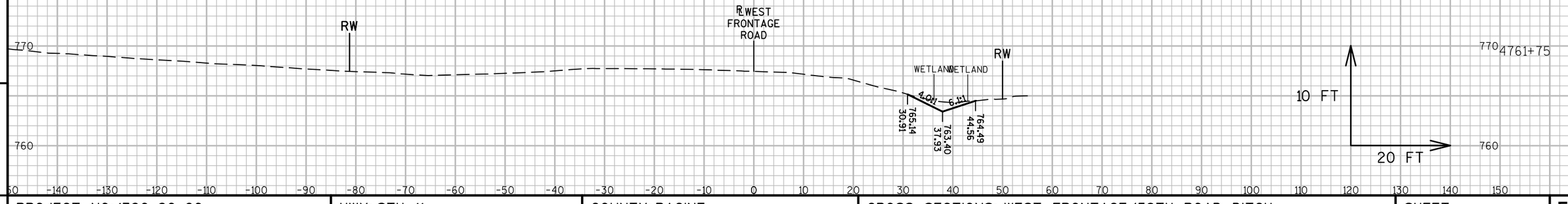
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 11/20/13 PLATE 179 W04-2.1

PROJECT NO: | SHEET NO: E







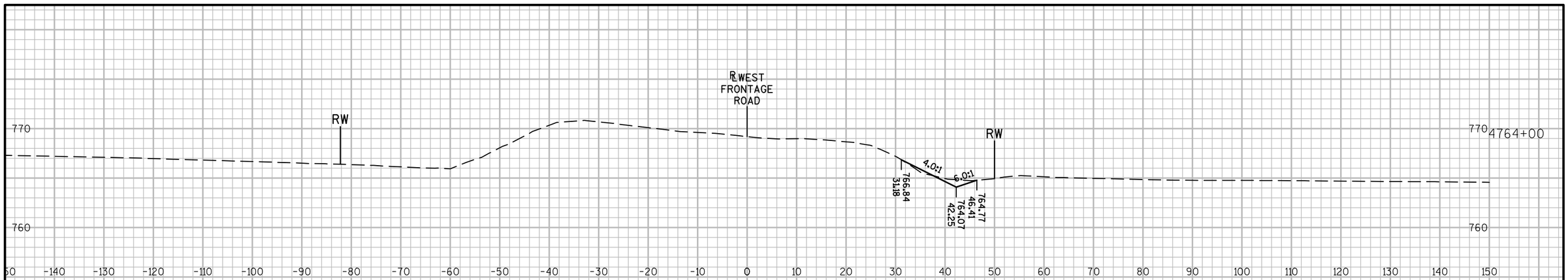
9

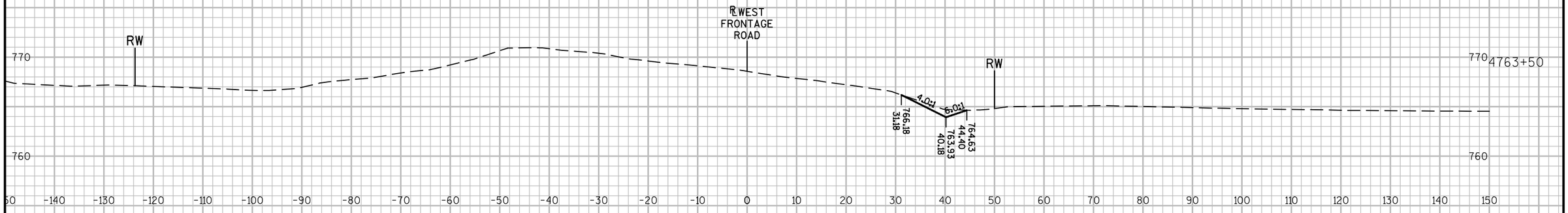
9

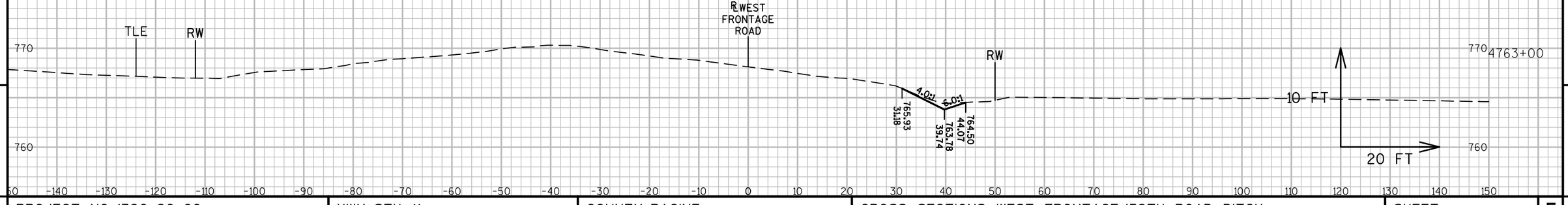
PROJECT NO:1320-20-60	HWY: STH 11	COUNTY: RACINE	CROSS SECTIONS: WEST FRONTAGE/58TH ROAD DITCH	SHEET 180	E

FILE NAME : Z:\RACINE\CADDS\13\13_GRADING\13NWFR-DITCH\090201_XS.DWG
LAYOUT NAME - 01

PLOT DATE : 1/7/2016 11:20 AM PLOT BY : qfb PLOT NAME : PLOT SCALE : 1 IN:20 FT







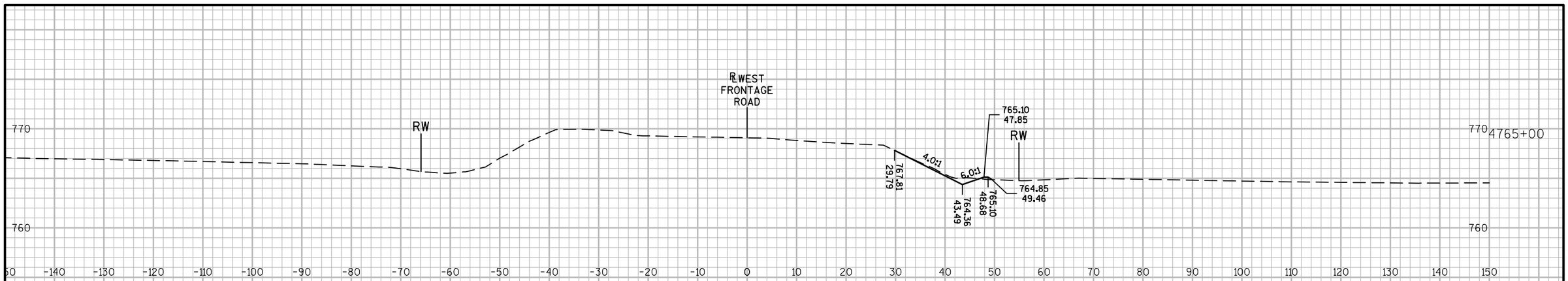
9

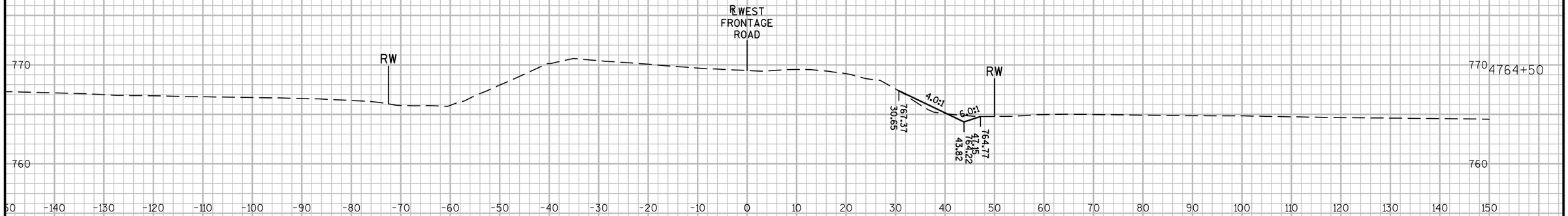
9

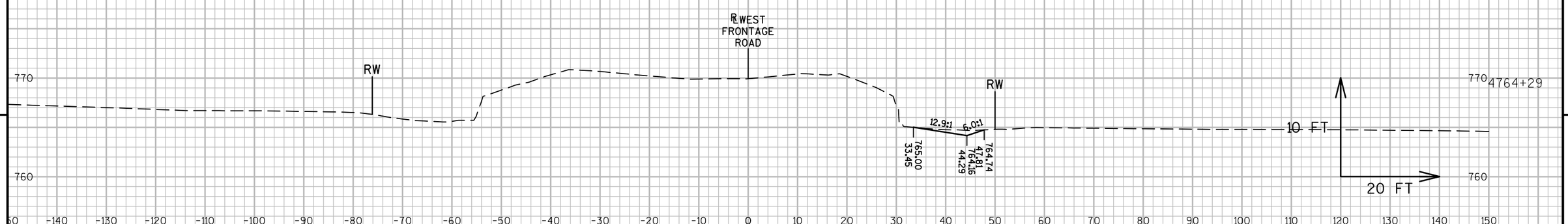
PROJECT NO: 1320-20-60	HWY: STH 11	COUNTY: RACINE	CROSS SECTIONS: WEST FRONTAGE/58TH ROAD DITCH	SHEET 181	E

FILE NAME : Z:\RACINE\CADDS\13\13_GRADING\13NWFR-DITCH\090201_XS.DWG
LAYOUT NAME - 02

PLOT DATE : 1/7/2016 11:20 AM PLOT BY : afb PLOT NAME : PLOT SCALE : 1 IN:20 FT







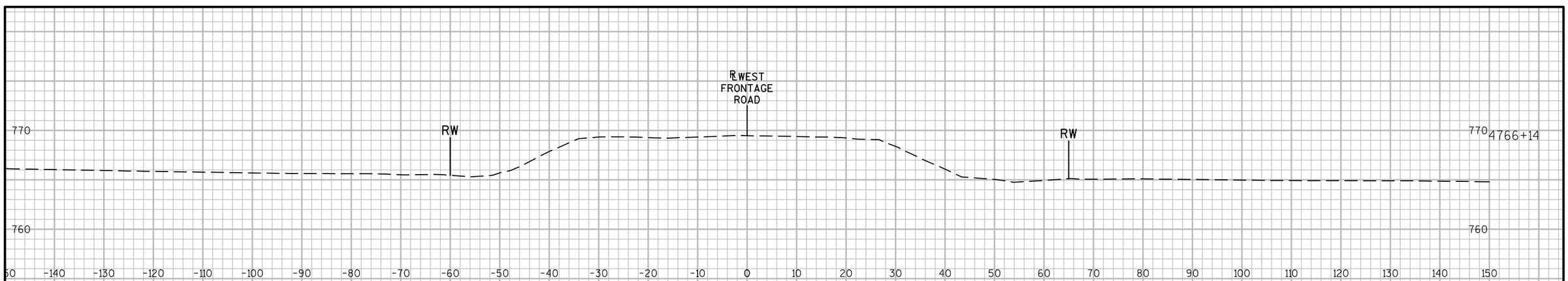
9

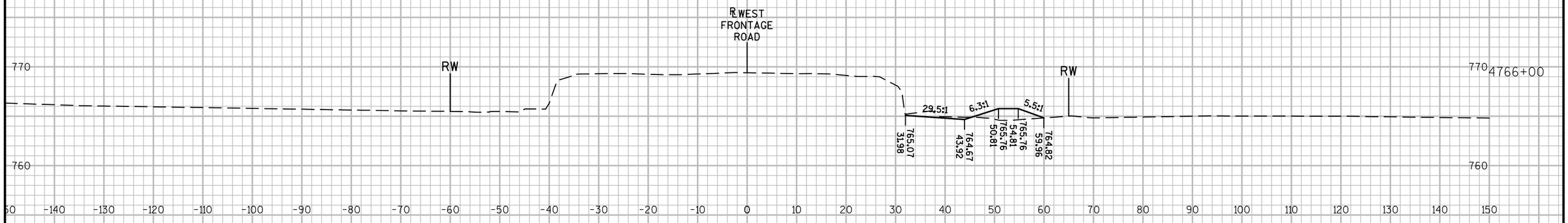
9

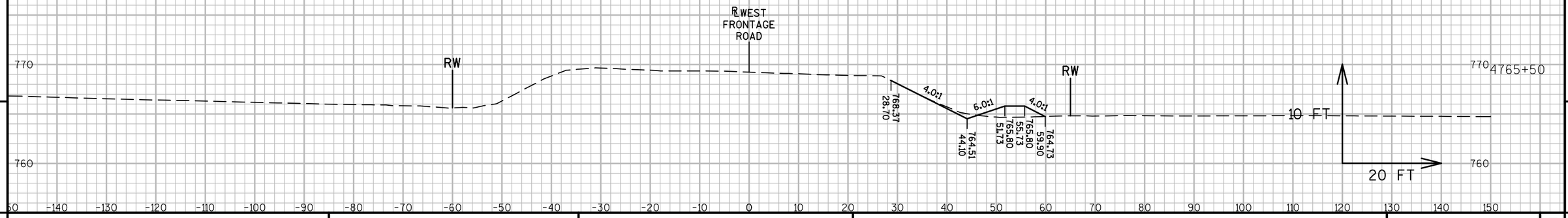
PROJECT NO:1320-20-60	HWY: STH 11	COUNTY: RACINE	CROSS SECTIONS: WEST FRONTAGE/58TH ROAD DITCH	SHEET 182	E

FILE NAME : Z:\RACINE\CADDS\13\13_GRADING\13NWFR-DITCH\090201_XS.DWG
LAYOUT NAME - 03

PLOT DATE : 1/7/2016 11:20 AM PLOT BY : afb PLOT NAME : PLOT SCALE : 1 IN:20 FT







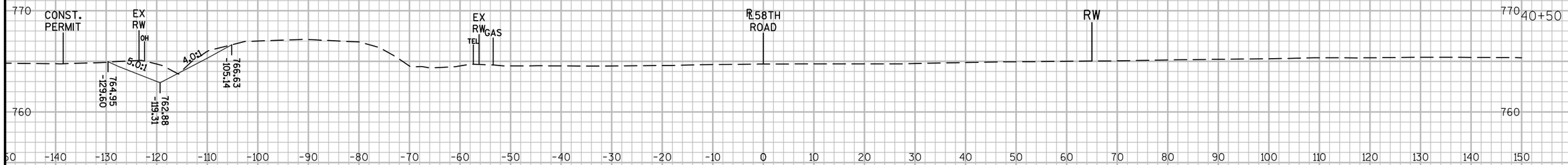
9

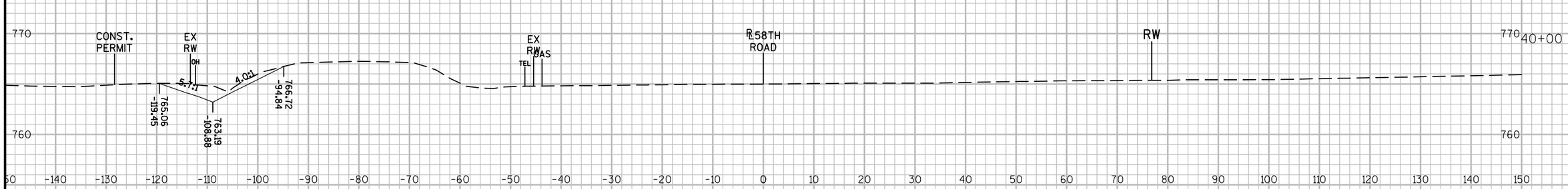
9

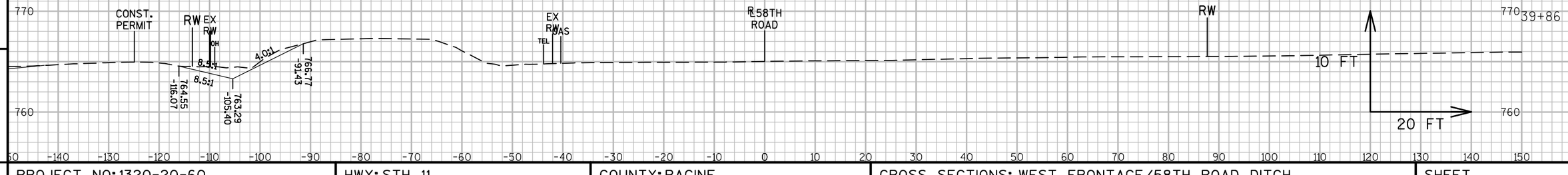
PROJECT NO: 1320-20-60	HWY: STH 11	COUNTY: RACINE	CROSS SECTIONS: WEST FRONTAGE/58TH ROAD DITCH	SHEET 183	E

FILE NAME : Z:\RACINE\CADDS\13\13_GRADING\13NWFR-DITCH\090201_XS.DWG
LAYOUT NAME - 04

PLOT DATE : 1/7/2016 11:20 AM PLOT BY : afb PLOT NAME : PLOT SCALE : 1 IN:20 FT







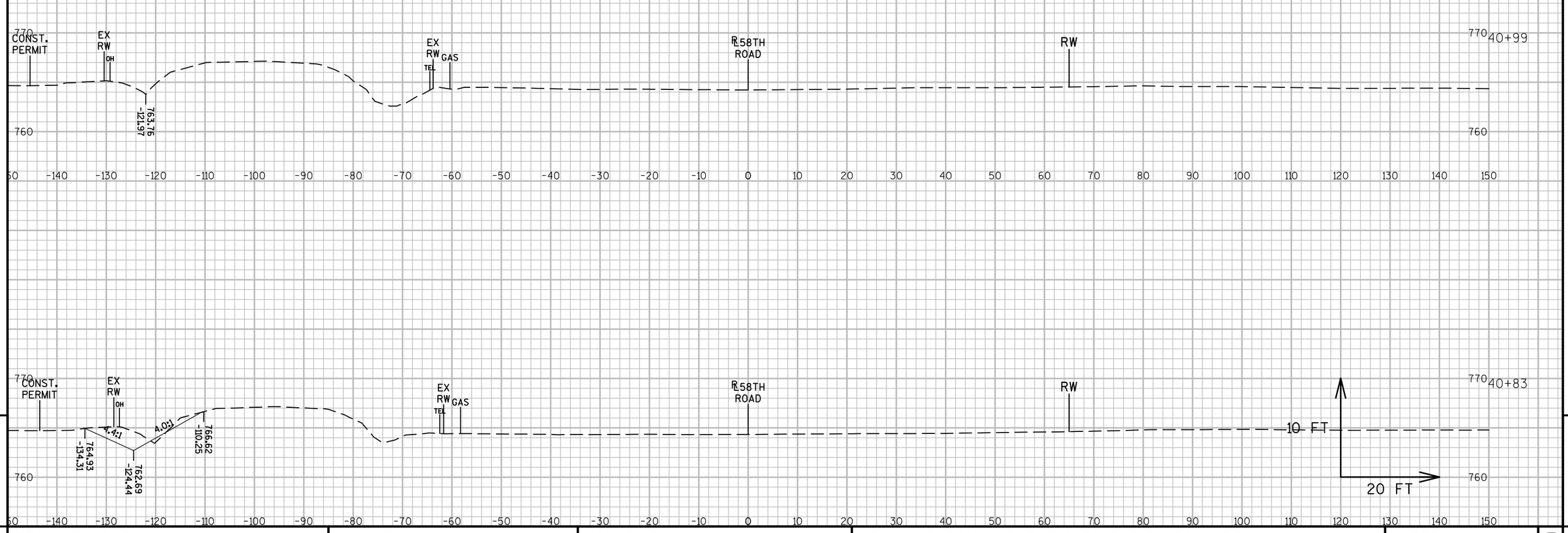
9

9

PROJECT NO:1320-20-60	HWY: STH 11	COUNTY: RACINE	CROSS SECTIONS: WEST FRONTAGE/58TH ROAD DITCH	SHEET 184	E

FILE NAME : Z:\RACINE\CADDS\13\13_GRADING\13NWFR-DITCH\090201_XS.DWG
LAYOUT NAME - 05

PLOT DATE : 1/7/2016 11:20 AM PLOT BY : afb PLOT NAME : PLOT SCALE : 1 IN:20 FT



9

9

PROJECT NO:1320-20-60	HWY: STH 11	COUNTY: RACINE	CROSS SECTIONS: WEST FRONTAGE/58TH ROAD DITCH	SHEET 185	E

FILE NAME : Z:\RACINE\CADDS\13\13_GRADING\13NWFR-DITCH\090201_XS.DWG
LAYOUT NAME - 06

PLOT DATE : 1/7/2016 11:20 AM PLOT BY : afb PLOT NAME : PLOT SCALE : 1 IN:20 FT

Wisconsin Department of Transportation

Dedicated people creating transportation solutions
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