Section No. 3

### COUNTY LINE CORPORATE LIMITS P.L. + 58.1 PROPERTY LINE LOT LINE LIMITED EASEMENT EARTHWORK BALANCE POINT EXISTING RIGHT OF WAY PROPOSED OR NEW R/W LINE SURVEY LINE SLOPE INTERCEPT ORIGINAL GROUND MARSH OR ROCK PROFILE (To be noted as such)

CONVENTIONAL SYMBOLS

DESIGN DESIGNATION

= 910

= 13.3%

= 60/40 = 6.9%

= 50 MPH

= 130,000

A.A.D.T. A.A.D.T. 2036

DESIGN SPEED

D.H.V.

**ESALS** 

D.D.

\_\_\_ROCK\_\_\_ MARSH AREA

Estimate of Quantities

Right of Way Plat

Section No. 6 Standard Detail Drawings

Section No. 9 Computer Earthwork Data

Section No. 7 Sign Plates

TOTAL SHEETS = 38

Section No. 8 Structure Plans

Section No. 9 Cross Sections

Miscellaneous Quantities

Section No. 5 Plan and Profile (Includes Erosion Control)

PROJECT LOCATION

POWER POLE

RAILROAD

WATER

TELEPHONE POLE

SANITARY SEWER

EXISTING CULVERT

PROPOSED CULVERT

CULVERT (Profile View)

STORM SEWER



# DEPARTMENT OF TRANSPORTATION

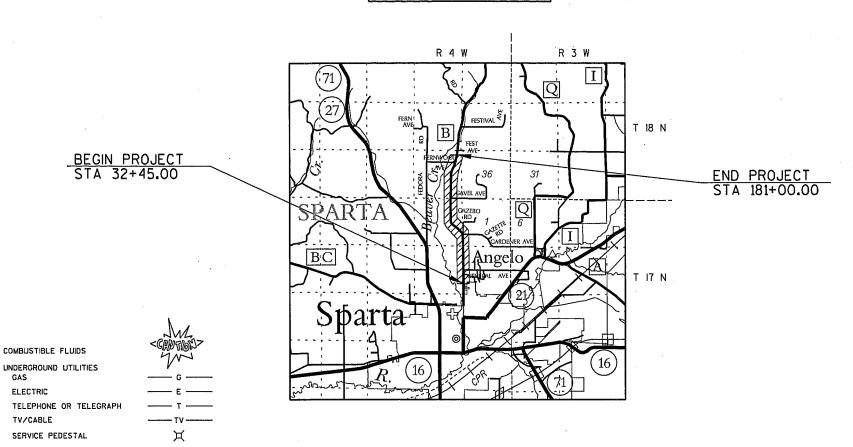
PLAN OF PROPOSED IMPROVEMENT

# SPARTA - CATARACT

(MEADOWVIEW LANE TO FERNWOOD AVENUE)

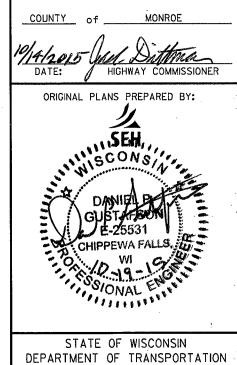
# CTH B MONROE COUNTY

STATE PROJECT NUMBER 100-00-70



TOTAL NET LENGTH OF CENTERLINE = 2.813 MI

FEDERAL PROJECT STATE PROJECT CONTRACT **PROJECT** 7100-00-70 WISC 2016053



ACCEPTED FOR

PREPARED BY SEH

### STANDARD ABBREVIATIONS

ABUT	ABUTMENT	HYD	HYDRANT
AC	ACRE	ID	INSIDE DIAMETER
AGG	AGGREGATE	INV	INVERT
AECPRC	APRON ENDWALL FOR CULVERT PIPE	IP	IRON PIPE ON PIN
AECPRC	REINFORCED CONCRETE	LHF	LEFT-HAND FORWARD
ACDU			
ASPH AVG	ASPHALTIC AVERAGE	L LF	LENGTH OF CURVE LINEAR FOOT
ADT		_	LONG CHORD OF CURVE
BF	AVERAGE DAILY TRAFFIC BACK FACE	LC LS	
ВМ			LUMP SUM
	BENCH MARK	MH	MANHOLE
BR	BRIDGE	MOR	MID POINT OF RADIUS
CE	COMMERCIAL ENTRANCE	NC	NORMAL CROWN
CL OR C/L OR &		NO	NUMBER
Δ	CENTRAL ANGLE OR DELTA	OBLIT	OBLITERATE
CONC	CONCRETE	PAVT	PAVEMENT
CPRC	CULVERT PIPE REINFORCED CONCRETE	PE	PRIVATE ENTRANCE
CPRCHE	CULVERT PIPE REINFORCED CONCRETE	PVRC	POINT OF VERTICAL REVERSE CURVE
	HORIZONTAL ELLIPTICAL	QOR	QUARTER POINT OF RADIUS
CR	CREEK	R	RADIUS
CY	CUBIC YARD	REQ'D	REQUIRED
C & G	CURB AND GUTTER	RES	RESIDENCE OR RESIDENTIAL
D	DEGREE OF CURVE	RHF	RIGHT-HAND FORWARD
DHV	DESIGN HOUR VOLUME	R/W	RIGHT-OF-WAY
DISCH	DISCHARGE	R	RIVER
DG	DITCH GRADE	RDWY	ROADWAY
DWY	DRIVEWAY	R/L OR R	REFERENCE LINE
Χ	EAST GRID COORDINATE	SALV	SALVAGED
EAT	STEEL PLATE BEAM GUARD	SAN	SANITARY SEWER
	ENERGY ABSORBING TERMINAL	SF	SQUARE FEET
EOR	END POINT OF RADIUS	SY	SQUARE YARD
EL	ELEVATION	SDD	STANDARD DETAIL DRAWINGS
ENT	ENTRANCE	STA	STATION
ESALS	EQUIVALENT SINGLE AXLE LOADS	SS	STORM SEWER
EXC	EXCAVATION	SSPRC	STORM SEWER PIPE REINFORCED CONCRETE
EBS	EXCAVATION BELOW SUBGRADE	SE	SUPERELEVATION RATE
EXIST	EXISTING	TC	TOP OF CURB
FC	FACE OF CURB	T OR TN	TOWN
FF	FACE TO FACE	T	TRUCKS (PERCENT OF)
FERT	FERTILIZE	TYP	TYPICAL
FE	FIELD ENTRANCE	VAR	VARIABLE
FL	FLOW LINE	VC	VERTICAL CURVE
F0	FIBER OPTIC	Y	NORTH GRID COORDINATE
CWT	HUNDREDWEIGHT	YD	YARD
CIII	HOMONEDMETONI	טו	TAIND

### GENERAL NOTES

ELEVATIONS SHOWN ON THE PLAN ARE REFERENCED TO THE APPROXIMATE USGS DATUM.

WHEN THE QUANTITY OF BASE AGGREGATE OR HMA PAVEMENT IS MEASURED FOR PAYMENT BY THE TON OR CUBIC YARD, THE DEPTH OR THICKNESS OF THE LAYER SHOWN ON THE PLANS IS APPROXIMATE AND THE ACTUAL THICKNESS WILL DEPEND ON THE DISTRIBUTION OF THE MATERIAL AS DIRECTED BY THE ENGINEER.

THE LOCATION OF EXISTING AND PROPOSED UTILITY INSTALLATIONS AS SHOWN ON THE PLANS IS APPROXIMATE. THERE MAY BE OTHER UTILITY INSTALLATIONS WITHIN THE PROJECT AREA THAT ARE NOT SHOWN. THE CONTRACTOR IS RESPONSIBLE FOR CONTACTING THOSE UTILITIES.

NO TREES OR SHRUBS ARE TO BE REMOVED WITHOUT THE APPROVAL OF THE ENGINEER.

CURVE DATA IS BASED ON THE ARC DEFINITION.

BEARINGS SHOWN ON THE PLANS ARE PROJECT BEARINGS TO THE NEAREST SECOND.

THE LOCATION OF ALL DRIVEWAYS WILL BE DETERMINED BY THE ENGINEER.

A VERTICAL SAWCUT SHALL BE MADE THROUGH EXISTING DRIVEWAYS AND PAVEMENTS AT REMOVAL LIMITS. REMOVAL LIMITS WILL BE DETERMINED BY THE ENGINEER.

4-INCH HMA PAVEMENT TYPE E-1 SHALL BE CONSTRUCTED WITH A 2 IN UPPER LAYER AND A 2 IN LOWER LAYER WITH 12.5-MM NOMINAL AGGREGATE SIZE FOR BOTH LIFTS.

BEARINGS SHOWN ON THE PLAN ARE REFERENCED TO THE EXISTING ROADWAY CENTERLINE AND ARE ASSUMED.

ARCHAEOLOGICAL SITE MO-0151 EXISTS BETWEEN STATIONS 98+00 & 103+00 LT. DO NOT USE THIS AREA FOR BORROW OR WASTE DISPOSAL OR THE STAGING OF PERSONNEL, EQUIPMENT OR SUPPLIES.

### UTILITY CONTACTS

CENTURYLINK P.O. BOX 256 311 SOUTH COURT STREET SPARTA. WI 54656 TELEPHONE: 608.269.0819 ATTENTION: BRET CLARK EMAIL: BRET.CLARK@CENTURYLINK.COM

CHARTER COMMUNICATIONS 1228 12TH AVENUE SOUTH ONALASKA, WI 54650 TELEPHONE: 715.370.7140 ATTENTION: PERRY MCCLELLAN EMAIL: PERRY.MCCLELLAN@CHARTERCOM.COM

CITY OF SPARTA 201 WEST OAK STREET SPARTA, WI 54656 TELEPHONE: 608.269.6511 EXT. 228 ATTENTION: LYNN JEROME EMAIL: DPW@SPARTAWISCONSIN.ORG

COUNTY OF MONROE 803 WASHINGTON STREET SPARTA, WI 54656 TELEPHONE: 608.269.8739 ATTENTION: JACK DITTMAR EMAIL: JACK.DITTMAR@CO.MONROE.WI.US

NORTHERN NATURAL GAS 5557 COUNTY ROAD D PLATVILLE, WI 53818 TELEPHONE: 402.530.2801 ATTENTION: BOB BESECKER EMAIL: BOB.BESECKER@NNGCO.COM

WE ENERGIES 1921 8TH STREET SOUTH WISCONSIN RAPIDS, WI 54494 TELEPHONE: 715.421.7259 ATTENTION: TRAVIS KAHL EMAIL:TRAVIS.KAHL@WE-ENERGIES.COM

XCEL ENERGY - ELECTRIC DISTRIBUTION 1003 SOUTH BLACK RIVER STREET SPARTA, WI 54656 TELEPHONE: 608.789.3677 EXT. 14 ATTENTION: KAYE CROOK EMAIL: KAYE. CROOK@XCELENERGY. COM



\*\* NOT A MEMBER OF DIGGERS HOTLINE

MUNICIPALITY CONTACT MONROE COUNTY HIGHWAY DEPARTMENT 803 WASHINGTON STREET SPARTA, WI 54656 TELEPHONE: 608.685.6226 ATTENTION: JACK DITTMAR EMAIL: JACK.DITTMAR@CO.MONROE.COM

DESIGN CONTACT

10 NORTH BRIDGE STREET CHIPPEWA FALLS, WI 54729 TELEPHONE: 715.720.6267 ATTENTION: DAN GUSTAFSON EMAIL: DGUSTAFSON@SEHINC.COM

SHEET

WDNR CONTACT

3550 MORMON COULEE ROAD LA CROSSE, WI 54601 TELEPHONE: 608.785.9115 ATTENTION: KAREN KALVELAGE EMAIL: KAREN.KALVELAGE@WISCONSIN.GOV

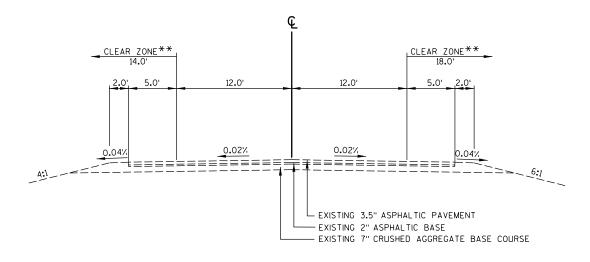
WI DEPT OF NATURAL RESOURCES

PROJECT NO: 7100-00-70 HWY: CTH B COUNTY: MONROE GENERAL NOTES FILE NAME: P:\KO\M\Monro\111956\CAD\GNCTHB01.dgn PLOT TIME: 12:40:34 PM PLOT DATE: 12/14/2015 PLOT BY : SEH PLOT NAME :

PLOT SCALE : N/A

WISDOT/CADDS SHEET 42





\*\*14'CLEAR ZONE WHERE SIDESLOPES ARE 4:1. 18'CLEAR ZONE WHERE SIDESLOPES ARE 6:1

# CLEAR ZONE\*\* CLEAR ZONE\*\* 12.0 12.01 7.0' 0.04% ======== - EXISTING 3.5" ASPHALTIC PAVEMENT - EXISTING 2" ASPHALTIC BASE EXISTING 7" CRUSHED AGGREGATE BASE COURSE

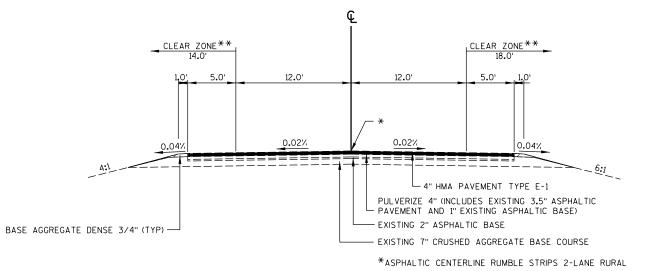
\*\*14'CLEAR ZONE WHERE SIDESLOPES ARE 4:1. 18'CLEAR ZONE WHERE SIDESLOPES ARE 6:1

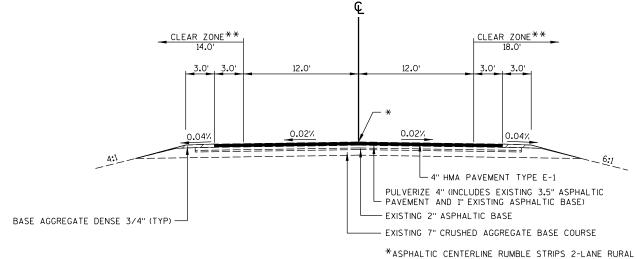
### **EXISTING TYPICAL SECTION**

STA 32+45 TO STA 90+00

# **EXISTING TYPICAL SECTION**

STA 90+00 TO STA 181+00





### TYPICAL FINISHED SECTION

STA 32+45 TO STA 90+00

\*ASPHALTIC CENTERLINE RUMBLE STRIPS 2-LANE RURAL
\*\*14' CLEAR ZONE WHERE SIDESLOPES ARE 4:1. 18'
CLEAR ZONE WHERE SIDESLOPES ARE 6:1

### TYPICAL FINISHED SECTION

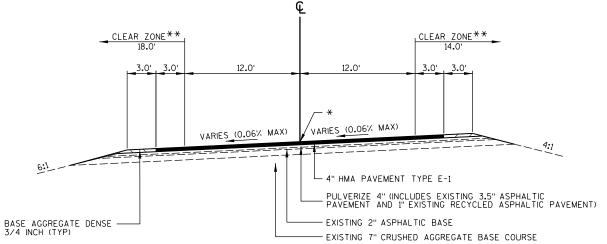
STA 90+00 TO STA 181+00

\*ASPHALTIC CENTERLINE RUMBLE STRIPS 2-LANE RURAL \*\*14'CLEAR ZONE WHERE SIDESLOPES ARE 4:1.18' CLEAR ZONE WHERE SIDESLOPES ARE 6:1

PROJECT NO: 7100-00-70 HWY: CTH B SHEET COUNTY: MONROE TYPICAL SECTIONS

FILE NAME : P:\KO\M\Monro\111956\CAD\TYCTH001.dgn PLOT TIME: 11:21:19 AM PLOT DATE: 10/12/2015 PLOT BY : SEH PLOT NAME: PLOT SCALE : N/A WISDOT/CADDS SHEET 42

SUPERELEVATION TABLE STATION TYPE LEFT SHOULDER LEFT LANE RIGHT LANE RIGHT SHOULDER



### PROPOSED SUPERELEVATED SECTION

\*ASPHALTIC CENTERLINE RUMBLE STRIPS 2-LANE RURAL

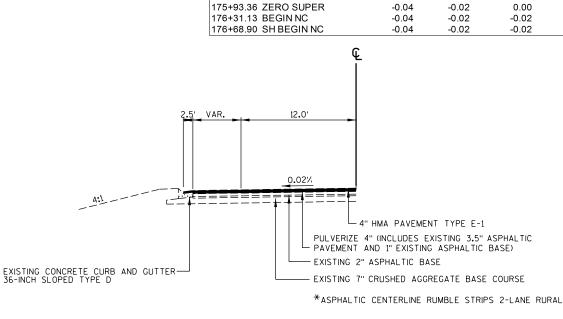
\*\*14'CLEAR ZONE WHERE SIDESLOPES ARE 4:1. 18'CLEAR ZONE WHERE SIDESLOPES ARE 6:1

NOTE: PAVED SHOULDER VARIES, SEE TABLE BELOW

STATION	PAVED SHOULDER	GRAVEL SHOULDER
32+45 - 90+00	5'	1'
90+00 - 91+00	TAPER FROM 5'-3'	TAPER FROM 1'-3'
91+00 - 181+00	3'	3'

2<u>.0'</u> VAR. 12.0 0.02% 4" HMA PAVEMENT TYPE F-1 PULVERIZE 4" (INCLUDES EXISTING 3.5" ASPHALTIC PAVEMENT AND 1" EXISTING ASPHALTIC BASE) - FXISTING 2" ASPHALTIC BASE EXISTING CONCRETE CURB AND GUTTER-30-INCH TYPE D - EXISTING 7" CRUSHED AGGREGATE BASE COURSE \*ASPHALTIC CENTERLINE RUMBLE STRIPS 2-LANE RURAL

> TYPICAL FINISHED HALF SECTION STA 37+50 TO STA 40+00 LT STA 103+00 TO STA 107+60 RT



82+89.68 SH END NC

83+66.18 ZERO SUPER

84+04.43 REV. CROWN

84+42.68 SH. TRANS.

84+80.93 BEGINFS

92+99.50 SH. TRANS.

94+14.25 BEGIN NC

93+37.75 REV. CROWN

93+76.00 ZERO SUPER

94+52.50 SH BEGIN NC

101+69.04 ZERO SUPER

102+07.29 REV. CROWN

102+45 54 SH TRANS

102+83.79 BEGINFS

110+11.71 SH. TRANS.

111+26.46 BEGIN NC

156+92 05 SH END NC

157+30 30 END NC

110+49.96 REV. CROWN

110+88.21 ZERO SUPER

111+64.71 SH BEGIN NC

157+68.55 ZERO SUPER

158+06.80 REV. CROWN

158+45.05 SH. TRANS.

158+83.30 BEGIN FS

161+89.39 SH. TRANS.

163+04.14 BEGIN NC

171+34.23 END NC

162+27 64 REV CROWN

162+65.89 ZERO SUPER

163+42.39 SH BEGIN NC

171+72.00 ZERO SUPER

172+09.77 REV. CROWN

172+47 54 SH TRANS

172+78.64 BEGINFS

175+17.82 SH. TRANS.

175+55.59 REV. CROWN

174+86.72 END FS

170+96.46 SH END NC

161+51.14 END FS

109+73.46 END FS

100+92.54 SH END NC

101+30.79 END NC

92+61.25 END FS

83+27.93 END NC

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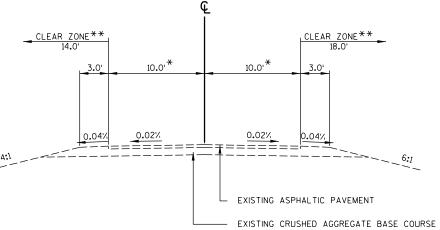
TYPICAL FINISHED HALF SECTION

STA 140+50 TO STA 143+50 LT STA 142+00 TO STA 144+00 RT

PROJECT NO: 7100-00-70 HWY: CTH B COUNTY: MONROE TYPICAL SECTIONS SHEET

FILE NAME : P:\KO\M\Monro\111956\CAD\TYCTH002.dgn PLOT TIME: 12:40:34 PM PLOT DATE: 12/14/2015 PLOT BY : SEH PLOT NAME : PLOT SCALE : N/A WISDOT/CADDS SHEET 42

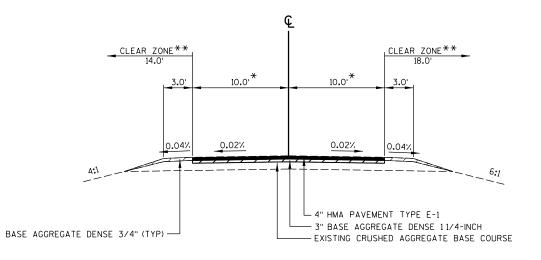




\*FIELD VERIFY. PROPOSED TO MATCH EXISTING
\*\*14'CLEAR ZONE WHERE SIDESLOPES ARE 4:1. 18'CLEAR ZONE WHERE SIDESLOPES ARE 6:1

## **EXISTING SIDEROAD TYPICAL SECTION**

GEMWOOD AVENUE GENERAL AVENUE GARDENER AVENUE GAVEL AVENUE FERNWOOD AVENUE

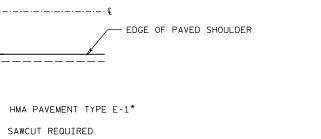


\*FIELD VERIFY. PROPOSED TO MATCH EXISTING
\*\*14'CLEAR ZONE WHERE SIDESLOPES ARE 4:1. 18'CLEAR ZONE WHERE SIDESLOPES ARE 6:1

# PROPOSED SIDEROAD TYPICAL SECTION

GEMWOOD AVENUE GENERAL AVENUE GARDENER AVENUE GAVEL AVENUE FERNWOOD AVENUE

PROJECT NO: 7100-00-70 HWY: CTH B COUNTY: MONROE TYPICAL SECTIONS SHEET



\*2" MINIMUM. MATCH EXISTING. INCLUDES ANY GRADING, SHAPING, & FINISHING NECESSARY TO COMPLETE THIS AREA.

# RURAL DRIVEWAY DETAIL - ASPHALT

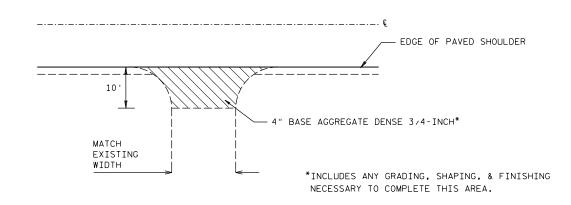
STA 170+70, RT STA 172+25, RT

10 '

MATCH

EXISTING WIDTH

STA 34+36, RT STA 35+50, RT STA 39+18, RT DRIVEWAYS ARE NOT SHOWN ON PLAN SHEETS STA 47+55, RT STA 58+77, LT STA 61+37, LT STA 91+85, RT STA 93+08, RT STA 99+86, RT STA 100+79, RT STA 102+80, LT STA 106+00, LT STA 111+20, LT STA 112+09, LT STA 112+65, RT STA 113+02, LT STA 115+20, RT STA 116+25, RT STA 118+12, RT STA 118+22, LT STA 119+05, LT STA 132+70, LT STA 145+75, RT STA 147+00, RT STA 149+25, LT STA 153+96, RT STA 159+85, LT STA 161+12, LT STA 163+31, RT STA 168+35, RT STA 169+60, RT



# RURAL DRIVEWAY DETAIL - GRAVEL STA 62+89, RT

STA 62+89, RT

STA 65+37, LT

STA 75+63, LT

STA 75+86, RT

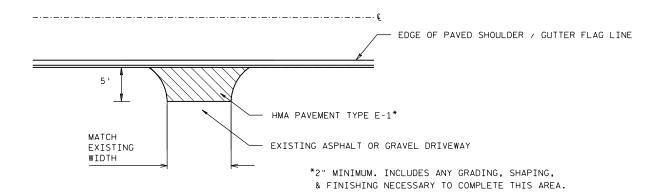
STA 96+00, LT

STA 120+50, RT

STA 145+02, LT

STA 145+02, RT

STA 177+00, LT



### RURAL DRIVEWAY DETAIL - CURB & GUTTER LOCATIONS

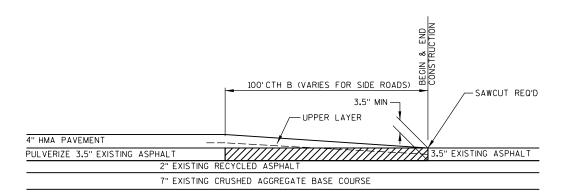
STA 38+21, LT
STA 39+29, LT
STA 103+45, RT
STA 106+00, RT
STA 142+40, LT

STA 38+21, LT

DRIVEWAYS ARE NOT
SHOWN ON PLAN SHEETS

PROJECT NO:7100-00-70 HWY:CTH B COUNTY:MONROE DETAILS

FILE NAME: P:\KO\M\Monro\111956\CAD\CDCTHB01.dgn PLOT TIME: 11:21:23 AM PLOT DATE: 10/12/2015 PLOT BY: SEH PLOT NAME: PLOT SCALE: N/A WISDOT/CADDS SHEET 42



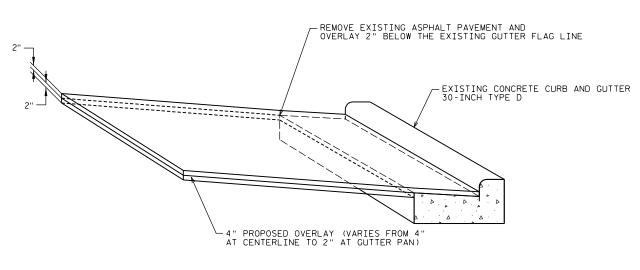
REMOVING ASPHALTIC SURFACE

# DETAIL OF BUTTED JOINT

STA 32+45\* STA 181+00\*

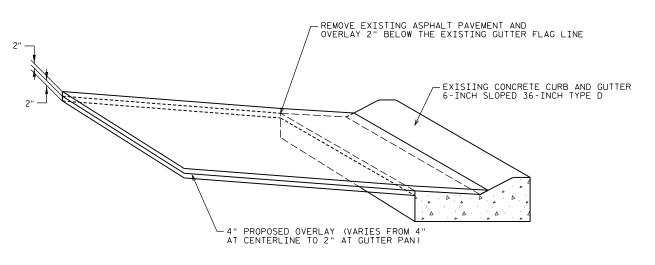
GEMWOOD AVENUE GENERAL AVENUE GARDENER AVENUE GAVEL AVENUE FERNWOOD AVENUE

\*ADJUST AS NEEDED TO FIT EXISTING FIELD LOCATIONS



# **CURB & GUTTER TERMINI**

4" HMA PAVEMENT OVERLAY AT CONCRETE CURB & GUTTER 30-INCH TYPE D STA 37+50 TO STA 40+00, LT STA 103+00 TO STA 107+60, RT



# **CURB & GUTTER TERMINI** CONCRETE CURB & GUTTER 6-INCH SLOPED 36-INCH TYPE D STA 140+50 TO STA 143+50, LT STA 142+00 TO STA 144+00, RT

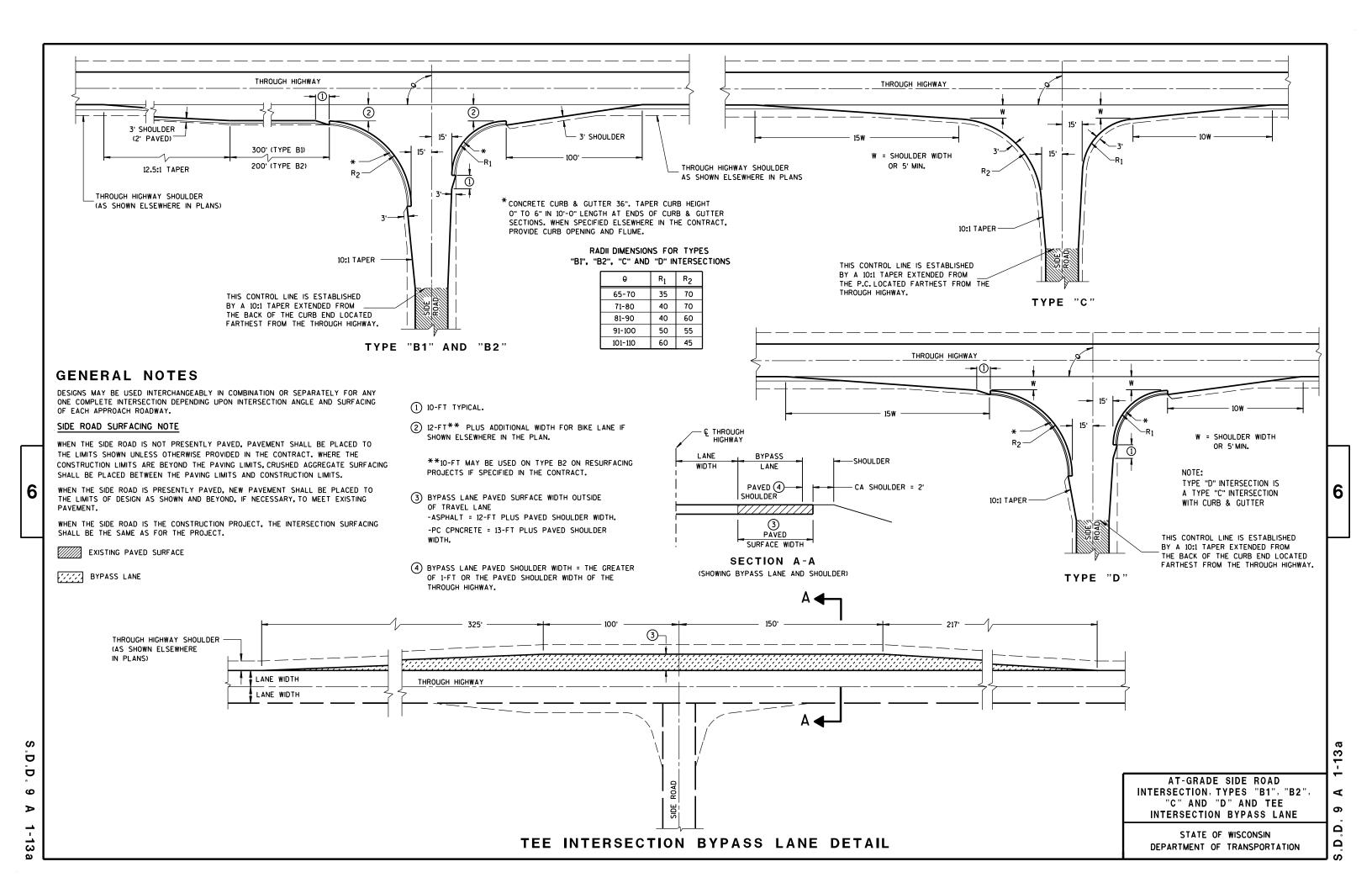
PROJECT NO: 7100-00-70 HWY: CTH B DETAILS SHEET COUNTY: MONROE

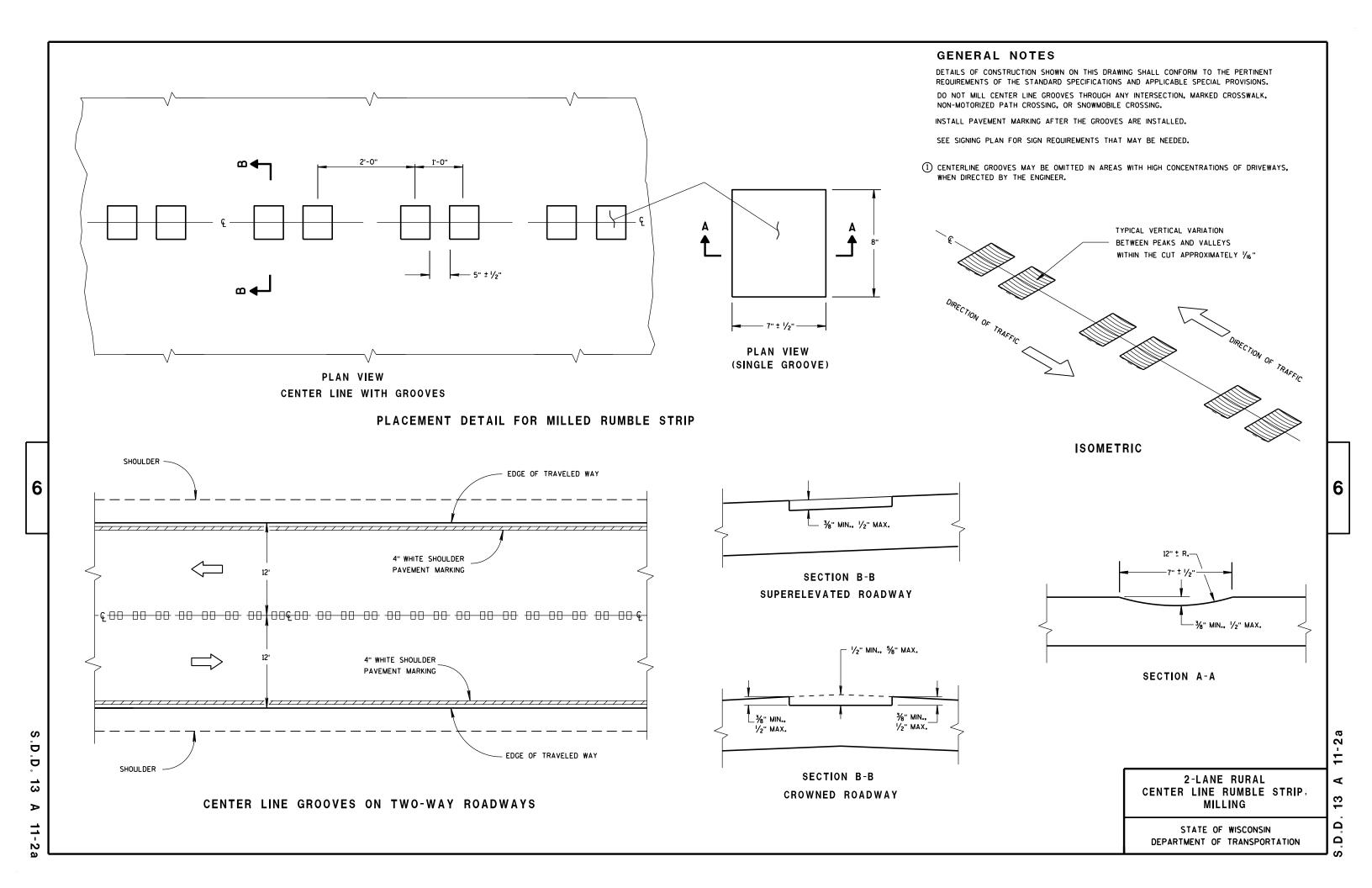
DATE 21	IDEC15	E S 1	IMAT	E O F Q U A N	
LI NE NUMBER	LTEM	ITEM DESCRIPTION	UNI T	TOTAL	7100-00-70 QUANTI TY
0010	204. 0110	Removing Asphaltic Surface	SY	425. 000	425. 000
0010	204. 0110	Removing Asphaltic Surface Butt Joints	SY	1, 400. 000	1, 400. 000
0020	204. 0115	Prepare Foundation for Asphaltic Paving	LS	1, 400, 000	1, 400. 000
0030	211.0100	(project) 01. 7100-00-70	LS	1.000	1.000
0040	213. 0100	Finishing Roadway (project) 01. 7100-00-70	EACH	1.000	1. 000
0050	305. 0110	Base Aggregate Dense 3/4-Inch	TON	2, 340. 000	2, 340. 000
0060	305. 0120	Base Aggregate Dense 1 1/4-Inch	TON	285.000	285. 000
0070	325. 0100	Pul veri ze and Rel ay	SY	45, 365. 000	45, 365. 000
080	440. 4410	Incentive IRI Ride	DOL	11, 260. 000	11, 260. 000
0090	455. 0105	Asphaltic Material PG58-28	TON	670.000	670. 000
0100	455. 0605	Tack Coat	GAL	3, 250. 000	3, 250. 000
0110	460. 1101	HMA Pavement Type E-1	TON	12, 130. 000	12, 130. 000
0120	460. 2000	Incentive Density HMA Pavement	DOL	7, 770. 000	7, 770. 000
0130	465. 0475	Asphalt Center Line Rumble Strips 2-Lane Rural	LF	13, 425. 000	13, 425. 000
0140	611. 8110	Adjusting Manhole Covers	EACH	6. 000	6. 000
0150	619. 1000	Mobilization	EACH	1. 000	1. 000
0160	624. 0100	Water	MGAL	350,000	250. 000
0170	634. 0614	Water Posts Wood 4x6-Inch X 14-FT	EACH	250. 000 10. 000	10. 000
0180	634. 0616	Posts Wood 4x6-Inch X 16-FT	EACH	8. 000	8. 000
0190	637. 2210	Signs Type II Reflective H	SF	40. 900	40. 900
0200	637. 2230	Signs Type II Reflective F	SF	84. 750	84. 750
0210	638. 2602	Removing Signs Type II	EACH	17. 000	17. 000
0210	638. 3000	Removing Small Sign Supports	EACH	17. 000	17. 000
0230	642. 5001	Field Office Type B	EACH	1. 000	1. 000
0230	643. 0100	Traffic Control (project) 01. 7100-00-70	EACH	1. 000	1. 000
0240	646. 0106	Pavement Marking Epoxy 4-Inch	LF	49, 710. 000	49, 710. 000
0230	040. 0100	ravellent Marking Epoxy 4-inch	LF	49, / 10. 000	47, / 10. 000
0260	647. 0566	Pavement Marking Stop Line Epoxy 18-Inch	LF	100.000	100.000
0270	648. 0100	Locating No-Passing Zones	MI	2. 813	2. 813
0280	649. 0403	Temporary Pavement Marking Epoxy 4-Inch	LF	29, 710. 000	29, 710. 000
0290	650. 8000	Construction Staking Resurfacing	LF	14, 855. 000	14, 855. 000
,0		Reference		, _00, 000	,
0300	650. 9910	Construction Staking Supplemental	LS	1.000	1. 000
		Control (project) 01. 7100-00-70			
0310	690. 0150	Sawing Asphalt	LF	784. 000	784. 000
0320	ASP. 1TOA	On-the-Job Training Apprentice at \$5.	HRS	600.000	600.000
		00/HR			
0330	ASP. 1TOG	On-the-Job Training Graduate at \$5.00/HR	HRS	300.000	300.000
		•			

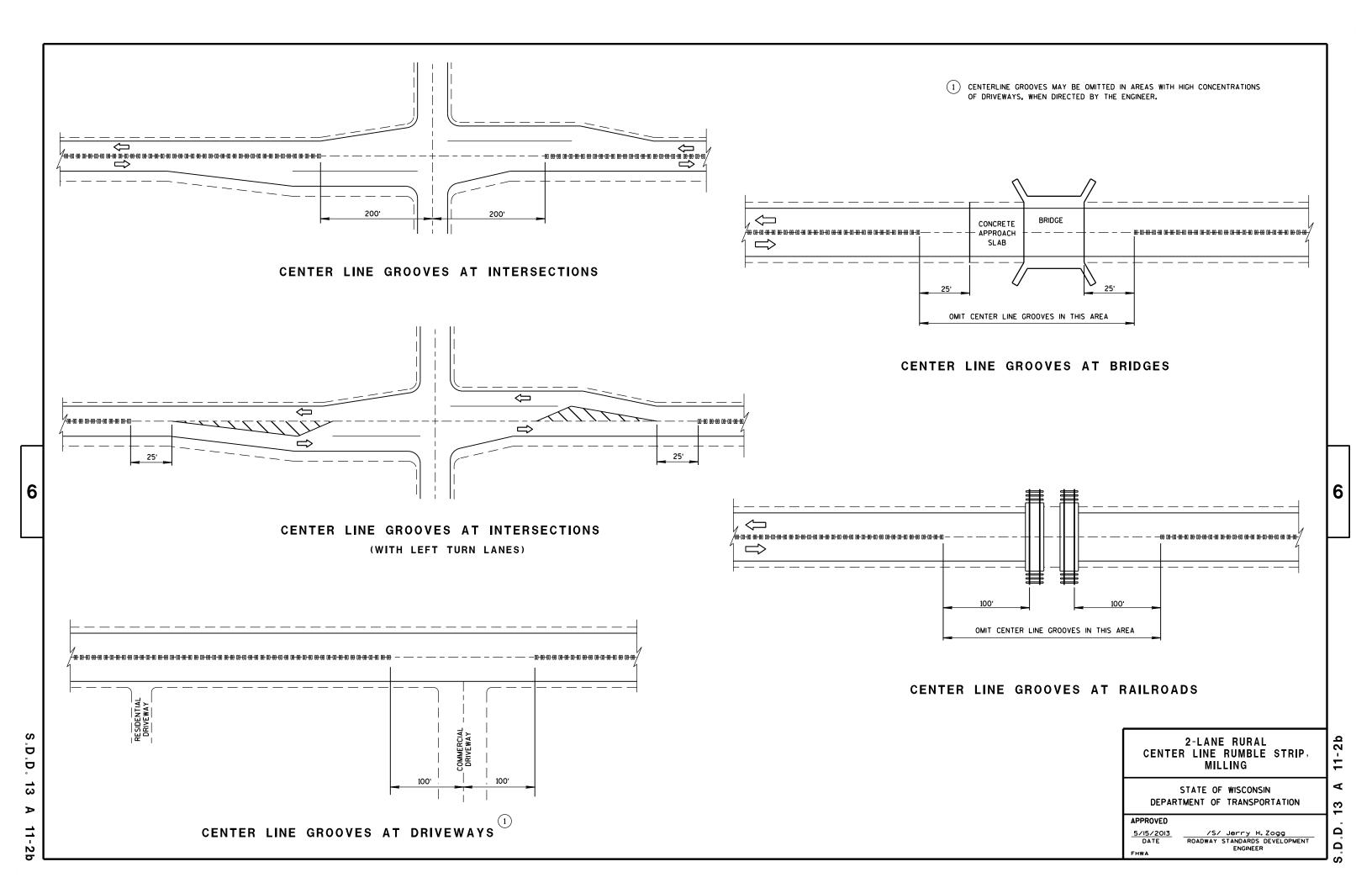
# Standard Detail Drawing List

09A01-13A	AT-GRADE SIDE ROAD INTERSECTION, TYPES "B1", "B2", "C" AND D AND TEE INTERSECTION BYPASS LANE
13A11-02A	2-LANE RURAL CENTER LINE RUMBLE STRIP, MILLING
13A11-02B	2-LANE RURAL CENTER LINE RUMBLE STRIP, MILLING
15C04-02	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
15C08-16A	PAVEMENT MARKING (MAINLINE)
15C08-16B	PAVEMENT MARKING (INTERSECTIONS)
15C12-04	TRAFFIC CONTROL FOR LANE CLOSURE (SUITABLE FOR MOVING OPERATIONS)
15C33-01	STOP LINE AND CROSSWALK PAVEMENT MARKING
15D28-03	TRAFFIC CONTROL, WORK ON SHOULDER OR PARKING LANE, UNDIVIDED ROADWAY

6







# TYPICAL SIDEROAD APPROACH WARNING SIGN DETAIL

### **GENERAL NOTES**

6

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D

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15

C

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

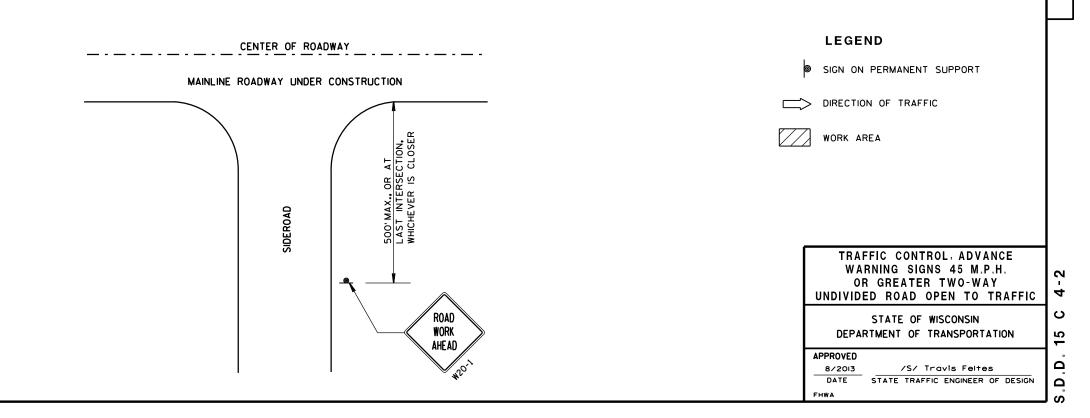
THE SPACING BETWEEN TRAFFIC CONTROL SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND SHOULD PROVIDE A MINIMUM OF 200 FEET (500 FEET DESIRABLE) CLEARANCE TO EXISTING SIGNS THAT WILL REMAIN IN PLACE.

ALL SIGNS ARE 48"×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.

- \* 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.



6

# **GENERAL NOTES**

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

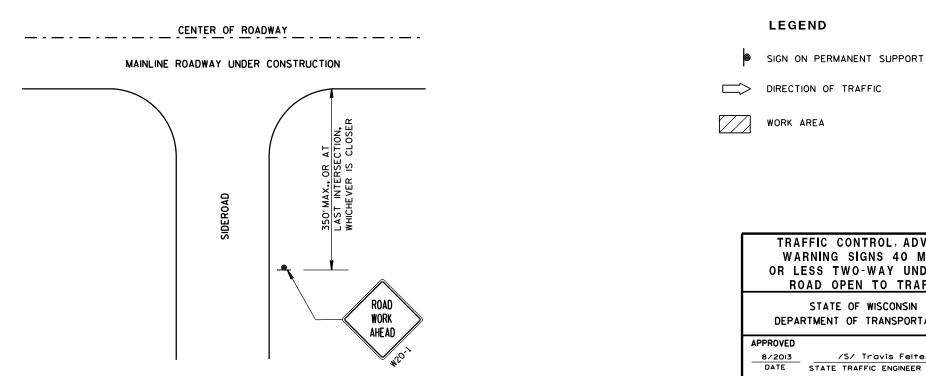
THE SPACING BETWEEN TRAFFIC CONTROL SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND SHOULD PROVIDE A DESIRABLE MINIMUM OF 200 FEET CLEARANCE TO EXISTING SIGNS THAT WILL REMAIN IN PLACE.

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

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.



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

DEPARTMENT OF TRANSPORTATION

/S/ Travis Feltes STATE TRAFFIC ENGINEER OF DESIGN

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2

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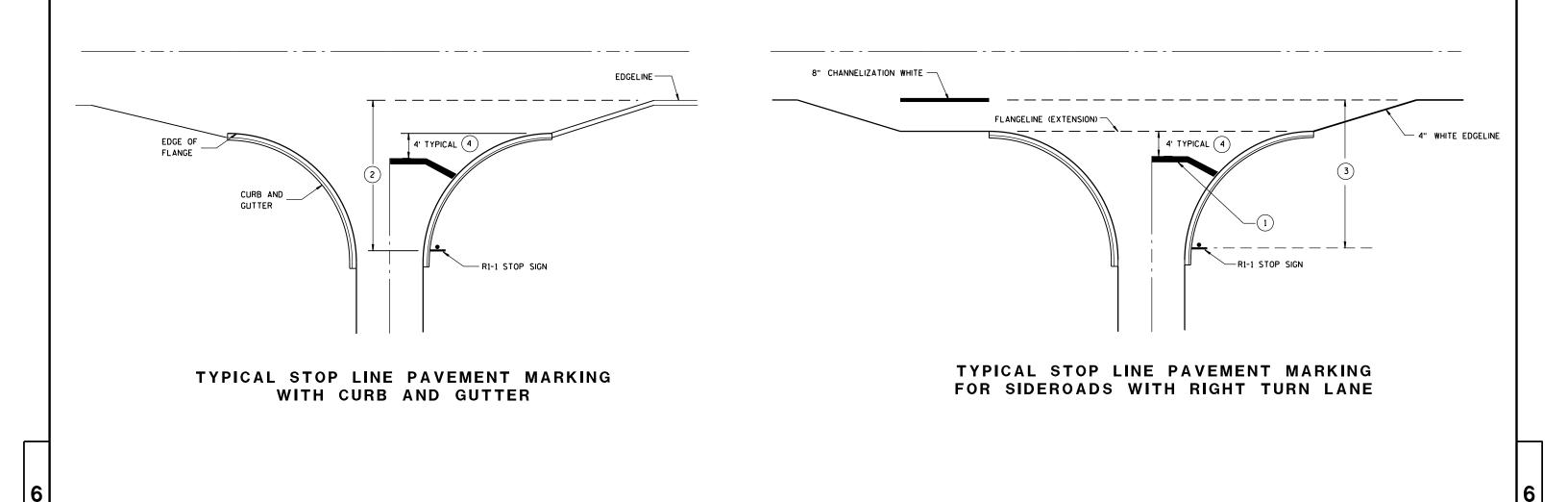
6

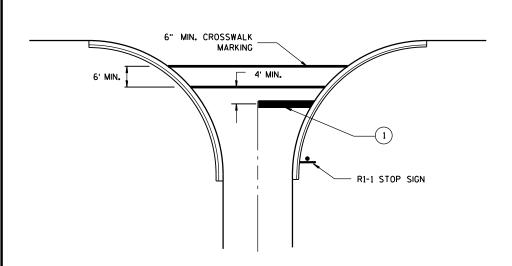
D Ö 15 C



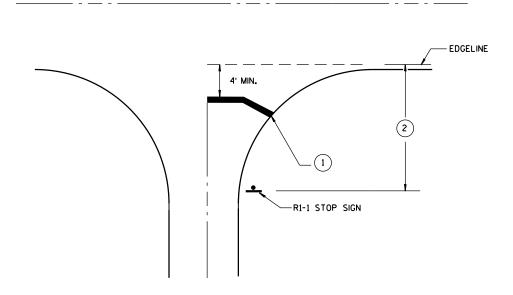








TYPICAL STOP LINE PAVEMENT MARKING FOR SIDEROADS WITH CROSSWALK MARKING



TYPICAL STOP LINE PAVEMENT MARKING WITHOUT CURB AND GUTTER

# GENERAL NOTES

- 1 18-INCH STOP LINES MAY BE DELETED OR ADDED BY THE PROJECT ENGINEER BASED ON VISIBILITY AND SIGHT LINES.
- 2 IF STOP SIGN IS LESS THAN OR EQUAL TO 40 FEET FROM THE EDGELINE THAN NO STOP LINE IS REQUIRED.
- (3) IF STOP SIGN IS LESS THAN OR EQUAL TO 30 FEET FROM THE FLANGELINE EXTENSION THAN NO STOP LINE IS REQUIRED.
- MOVE CLOSER TO EDGE OF TRAVEL LANE AS NEEDED FOR VISIBILITY AND SIGHT LINES.

# STOP LINE AND CROSSWALK PAVEMENT MARKING

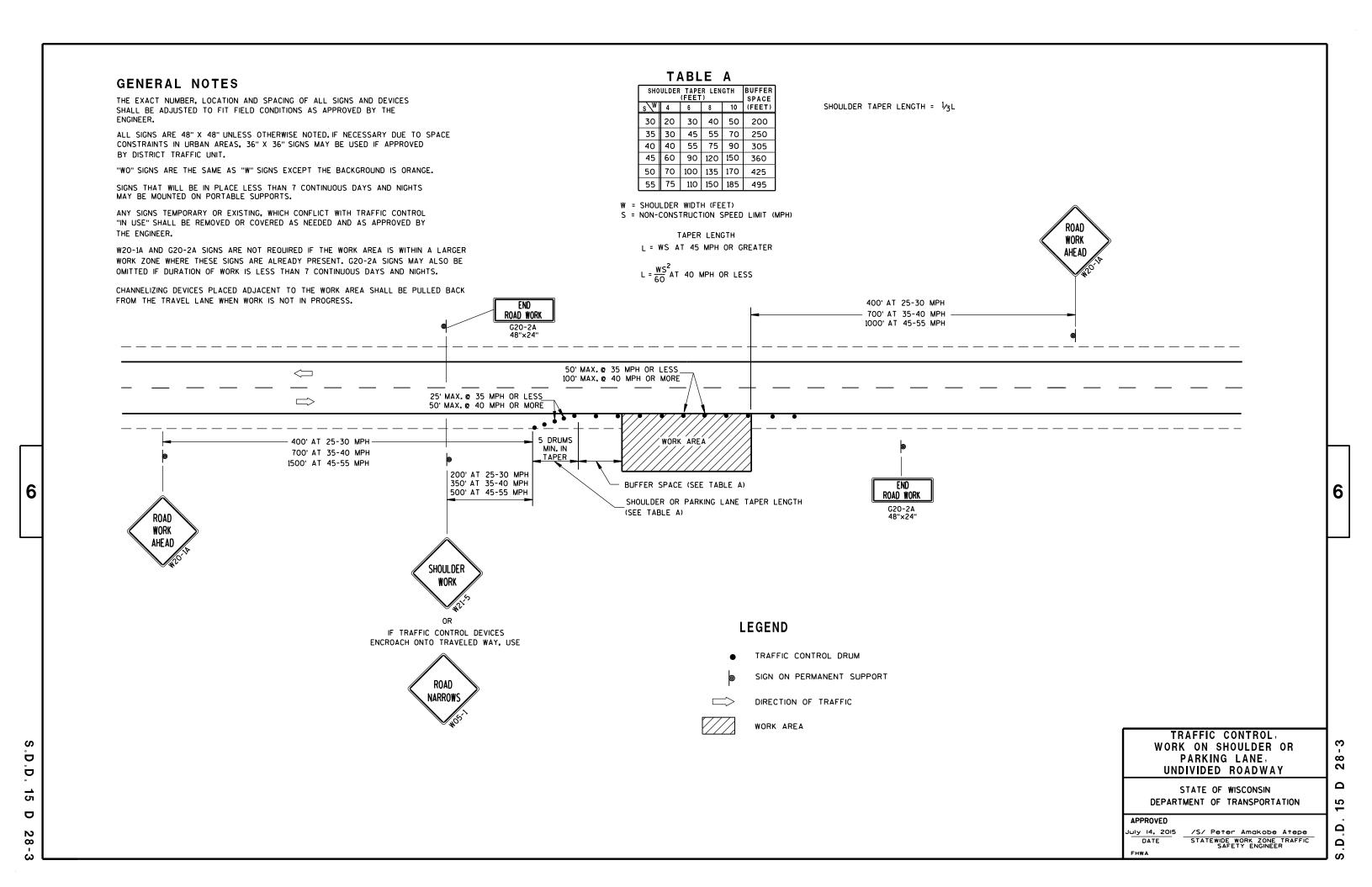
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED	
4/30/2013	/S/ Travis Feltes
DATE	STATE TRAFFIC ENGINEER
FHWA	

.D.D. 15 C 33-1

S.D.D.

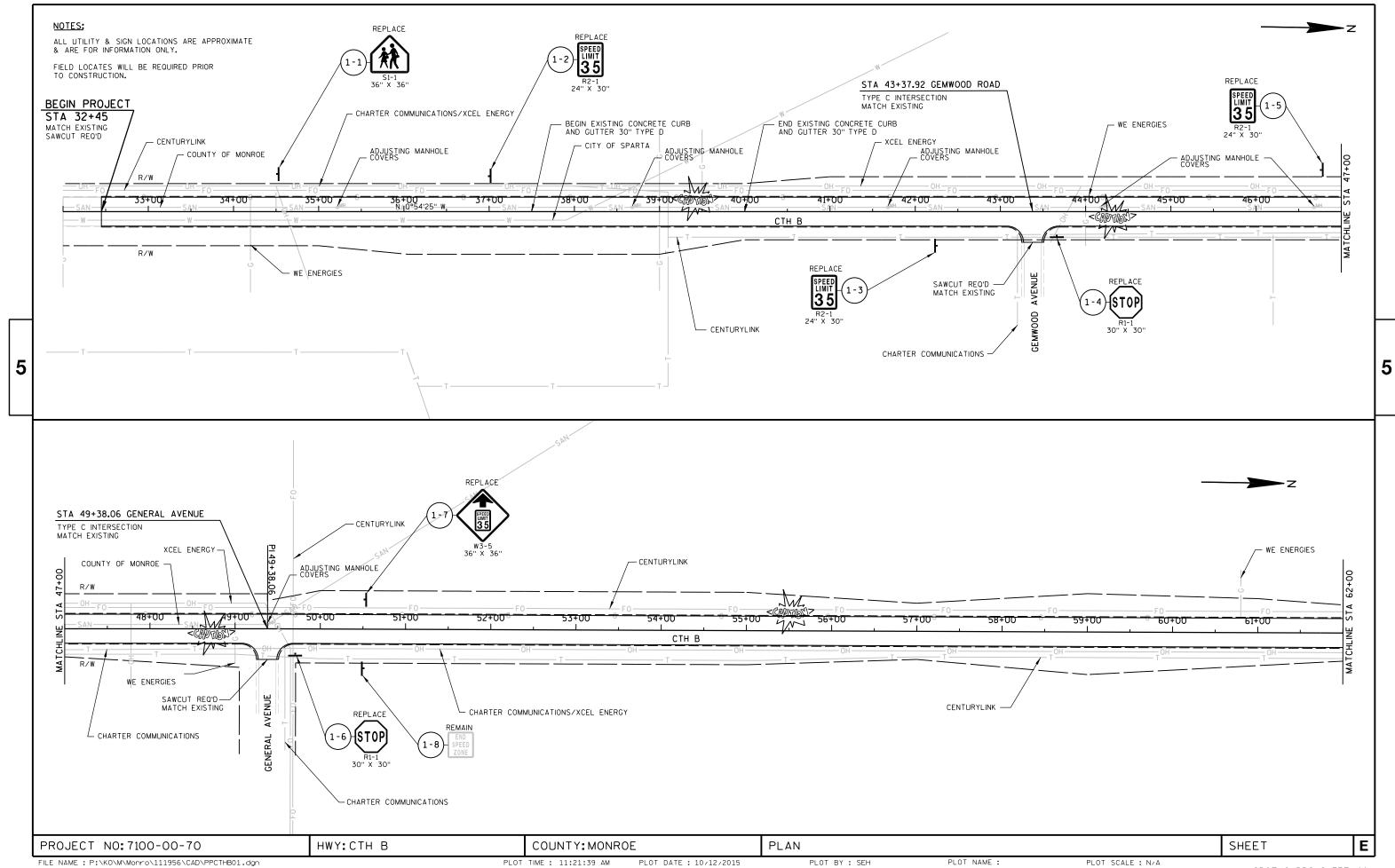
33

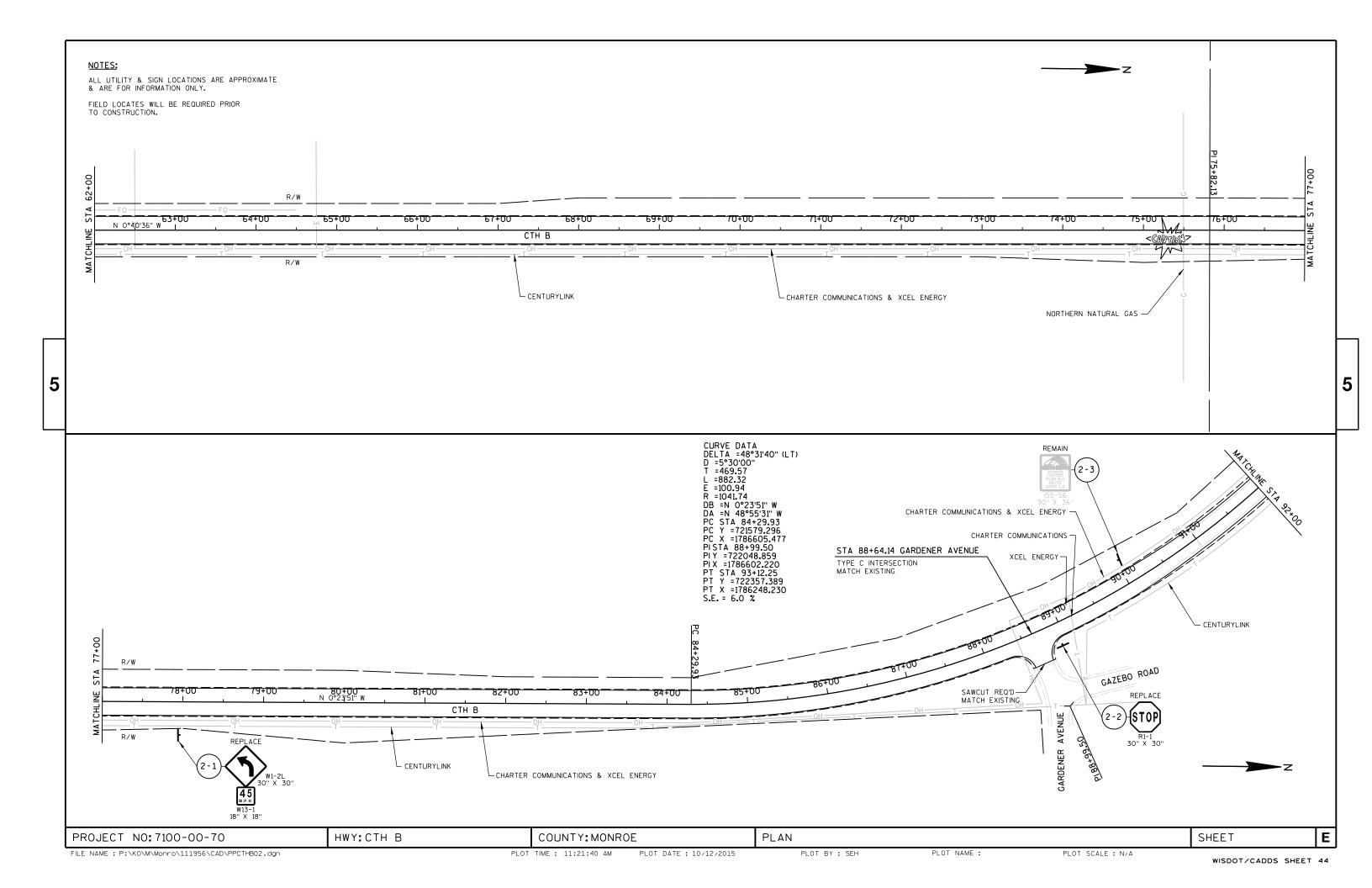


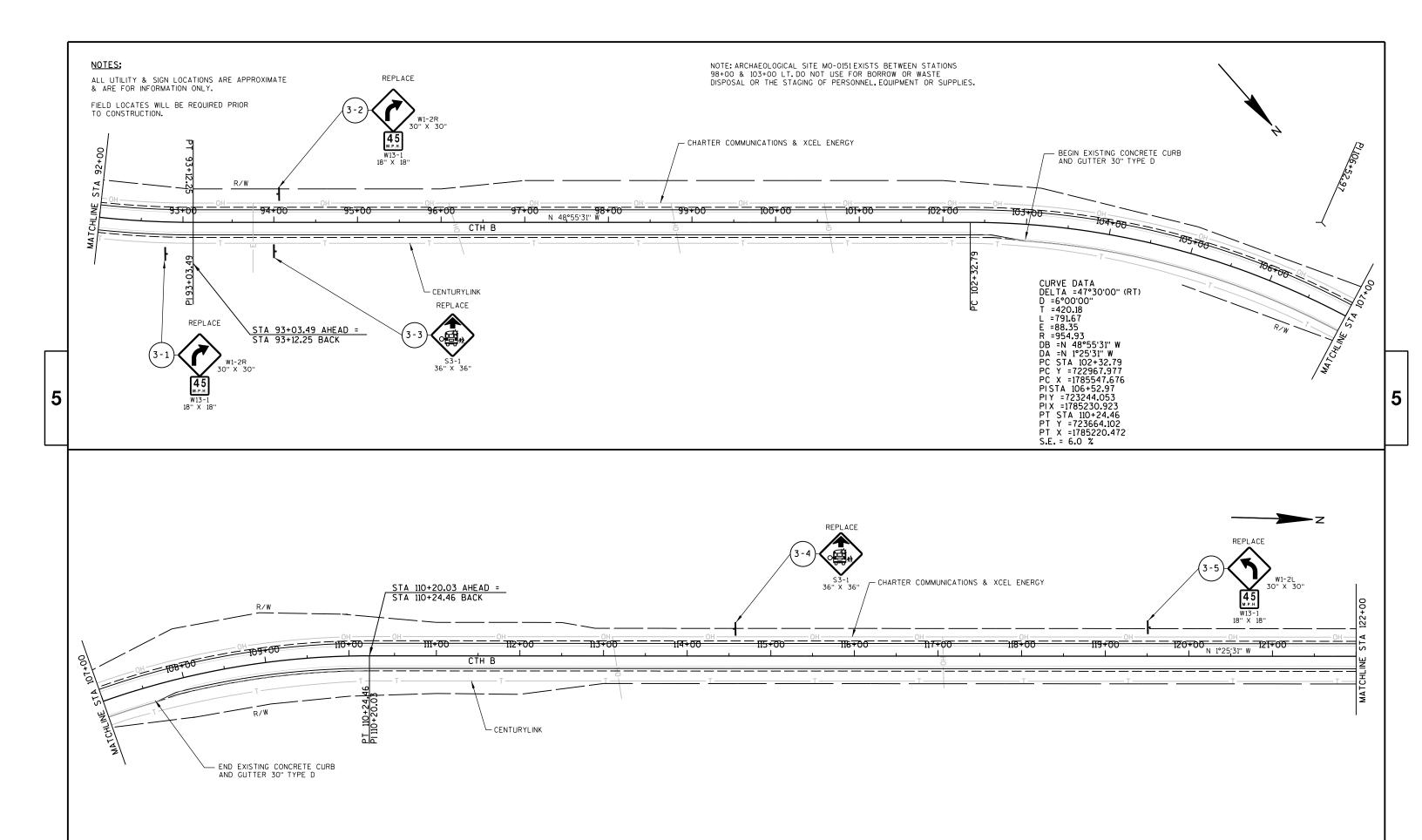
DEMOV	NG ASPHALTIC SURFACE			
STATION  CTH B 32+45 181+00 DRIVEWAYS  SIDE-ROADS GEMWOOD AV GENERAL AVE GARDENER AV GAVEL AVE FERNWOOD AV ITEM TOTAL	204.0115 BUTT 204.0110 JOINTS LOCATION SY SY  LT & RT 380 LT & RT 270 LT & RT 425  E LT & RT 65 LT & RT 65 LT & RT 90 LT & RT 90 LT & RT 260		PULVERIZE AND RELAY           STATION - STATION         LOCATION         325.0100 WATER MGAL           CTH B 32+45 - 180+00         LT & RT         45365         225           ITEM TOTAL         45365         225           *ITEM LOCATED ELSEWHERE IN PLANS	
STATION - STAT  CTH B 32+45 - 181+00  ITEM TOTAL	PREPARE FOUNDATION FOR PHALTIC PAVING (7100-00-70)  FION LOCATION LS  LT & RT 1  1		ASPHALTIC PAVEMENT ITEMS   465.0475   ASPHALTIC CENTERLINE   RUMBLE   ASPHALTIC   455.0105   ASPHALTIC   455.0605   460.1101   STRIPS   MATERIAL   TACK   HMA PAVEMENT   2-LANE   PG58-28   COAT   TYPE E-1   RURAL   LF   CTH B   32+45 - 181+00   LT & RT   670   3250   12130   13425   ITEM TOTALS   670   13425   ITEM TOTALS   13425   ITEM TOTALS	REMARKS NCLUDES DRIVEWAYS
STATI CTHB	- 181+00 1		## ADJUSTING MANHOLE COVERS    611.8110*	
305.0110	305.0120 *624.0100 11/4-INCH WATER TON MGAL REMARKS  22 FINISHED SHOULDER - INCL 285 3 DRIVEWAY & SIDE 285 25	UDES SIDEROADS	MOBILIZATION         619.1000         STATION - STATION       619.1000         CTH B       32+45 - 181+00       1         ITEM TOTAL       1	
PROJECT NO: 7100-00-70	HWY:CTH B	COUNTY: MONROE	MISCELLANEOUS QUANTITIES	SHEET <b>E</b>

			PAVEMENT MARKING
3	SIGN   SIGN   REMOVI   SIGN   SIGN   SIGNS   Signs	SIGN   SUPPORTS   EACH	CTHB   S2+45 - 181+00   C
	3-3 S3-1 SCHOOL BUS STOP 36" X 36" 9.00 1 1 1 3-4 S3-1 SCHOOL BUS STOP 36" X 36" 9.00 1 1 1 3-5 W1-2L LEFT CURVE 30" X 30" 6.25 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 REPLACE 1 REPLACE 1 REPLACE 1 INSTALL 1 REPLACE 1 REPLACE REPLACE INSTALL INSTALL INSTALL INSTALL INSTALL TREPLACE REPLACE REPLACE REPLACE REPLACE REPLACE REPLACE REPLACE	LOCATING NO-PASSING ZONES           STATION         LOCATION         648.0100 MI           CTH B 32+45 - 181+00         LT & RT 2.813           ITEM TOTAL         2.813
	FIELD OFFICE TYPE B           STATION - STATION         642.5001           EACH         EACH           CTH B         32+45 - 181+00         1           ITEM TOTAL         1		CONSTRUCTION STAKING           650.8000 RESURFACING RESURFACING REFERENCE         650.9910 SUPPLEMENTAL CONTROL (700-00-70) LS           STATION - STATION LOCATION         LF         14855         1           CTH B 32+45 - 181+00         LT & RT         14855         1           ITEM TOTALS         14855         1
	TRAFFIC CONTROL         STATION - STATION       643.0100 EACH         CTH B       32+45 - 181+00       1         ITEM TOTAL       1		SAWING ASPHALT    690.0150
	PROJECT NO:7100-00-70 HWY:CTH B	COUNTY: MONROE	MISCELLANEOUS QUANTITIES SHEET <b>E</b>

PLOT SCALE : N/A







PLAN

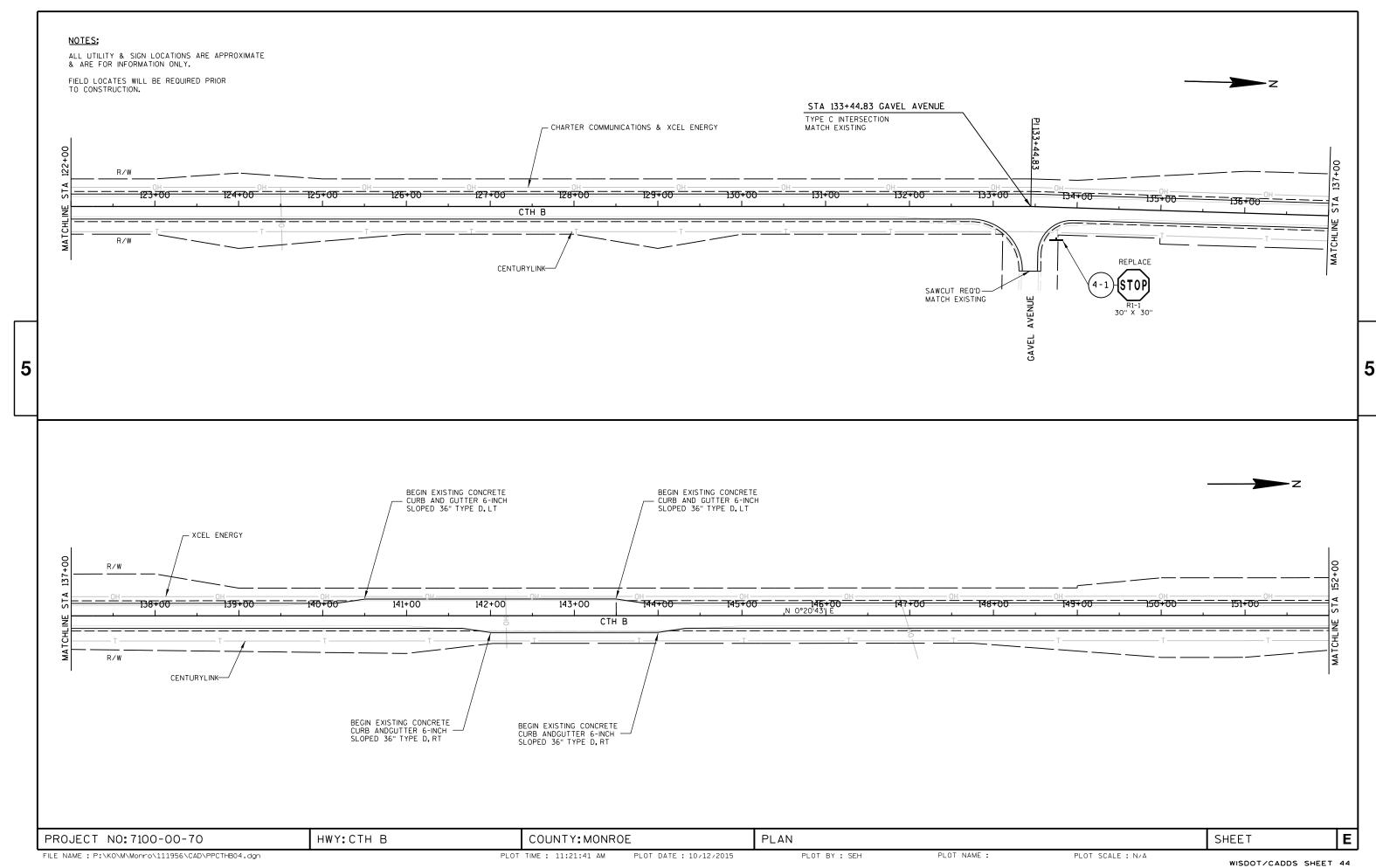
SHEET

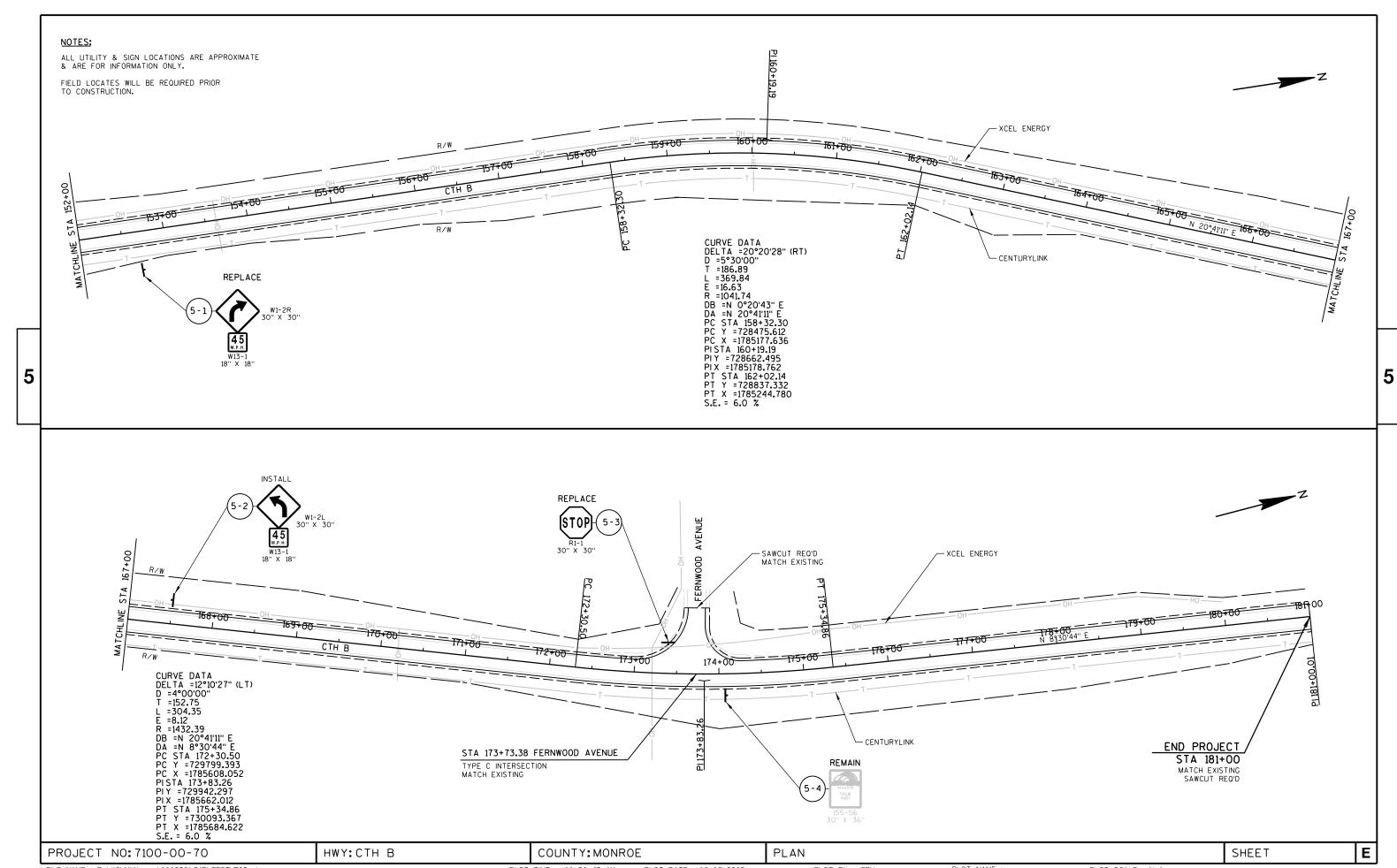
Ε

COUNTY: MONROE

PROJECT NO: 7100-00-70

HWY: CTH B

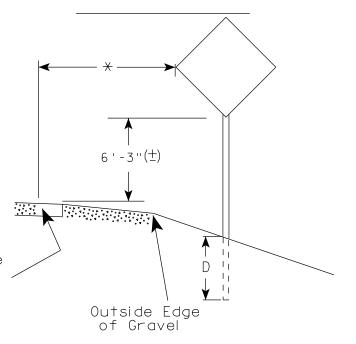




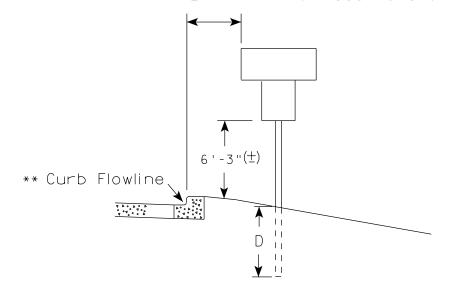
# URBAN ARFA

2' Min - 4' Max (See Note 6) 7'-3"(士) \*\* Curb Flowline. White Edgeline Location

RURAL AREA (See Note 2)



2' Min - 4' Max (See Note 6)



5'-3"(生)  $D^{-1}$ Outside Edae of Gravel

White Edgeline Location

\*\* The existence of curb and gutter does not in itself mandate the vertical clearance illustrated.

HWY:

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.

PLOT DATE: 12-NOV-2014 14:03

### GENERAL NOTES

- 1. Signs wider than 4 feet, 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  $7'-3''(\pm)$  or 6'-3" (±) depending upon existence of a sub-sign.
- 4. Minimum mounting height for J assemblies (A2-1S) is  $7'-3''(\pm)$  or  $6'-3''(\pm)$ per urban or rural detail respectively.
- 5. Minimum mounting height for signs mounted on traffic signal poles is 5' - 3'' ( $\pm$ ).
- 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'' ( $\pm$ ) or as directd by the Engineer.
- 9. The Double Arrow sign (W12-1) shall be mounted at a height of 2'-3"  $(\pm)$ . 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'' ( $\pm$ ).

### POST EMBEDMENT DEPTH

D
(Min)
4'
5'

TYPICAL INSTALLATION OF PERMANENT TYPE II SIGNS ON SINGLE POSTS

WISCONSIN DEPT OF TRANSPORTATION

SHEET NO:

APPROVED

for State Traffic Engineer

DATE 11/12/14

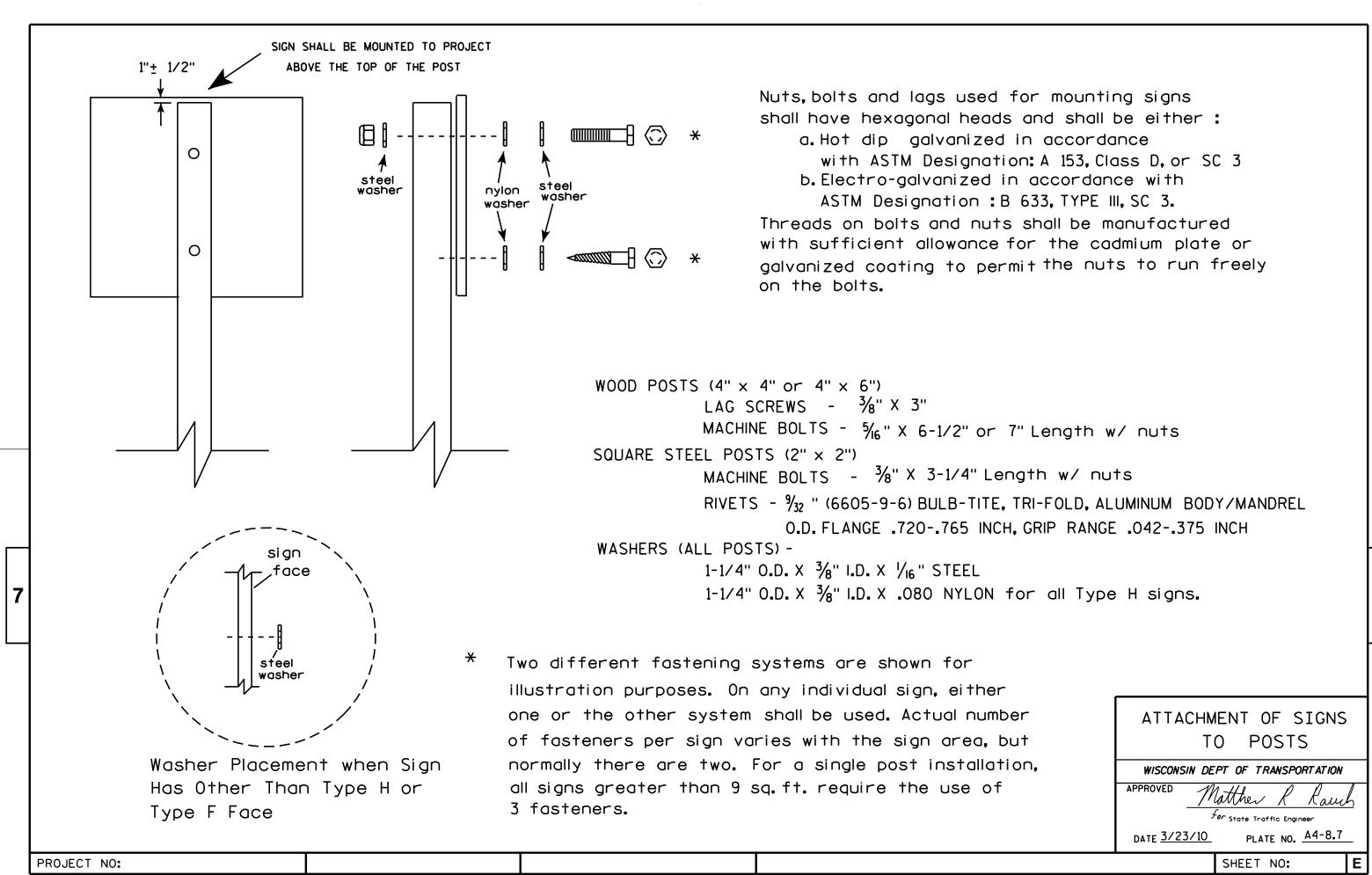
PROJECT NO: FILE NAME : C:\CAEFiles\Projects\tr\_stdplate\A43.DGN COUNTY:

PLOT BY: mscsja

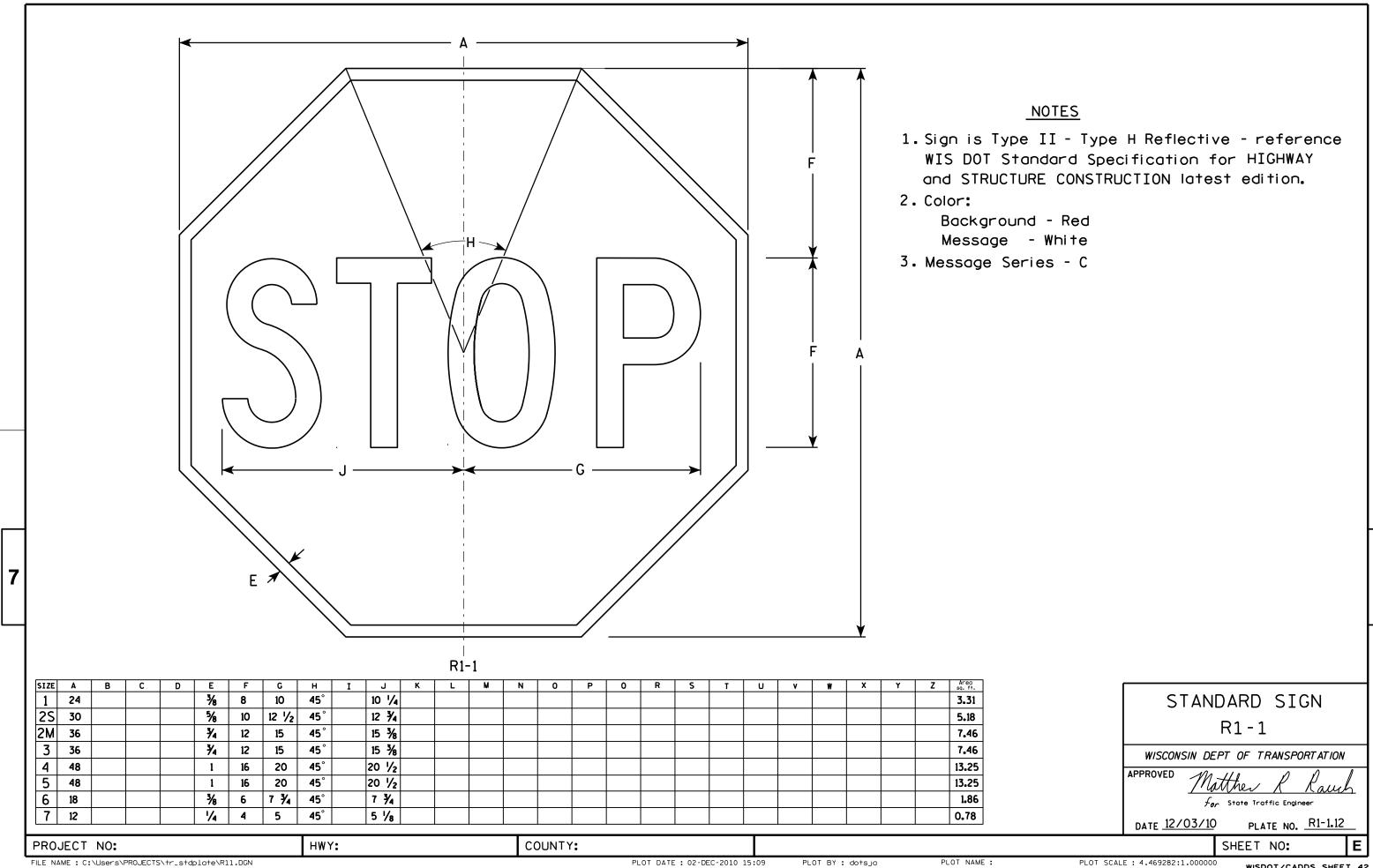
PLOT NAME :

WISDOT/CADDS SHEET 42

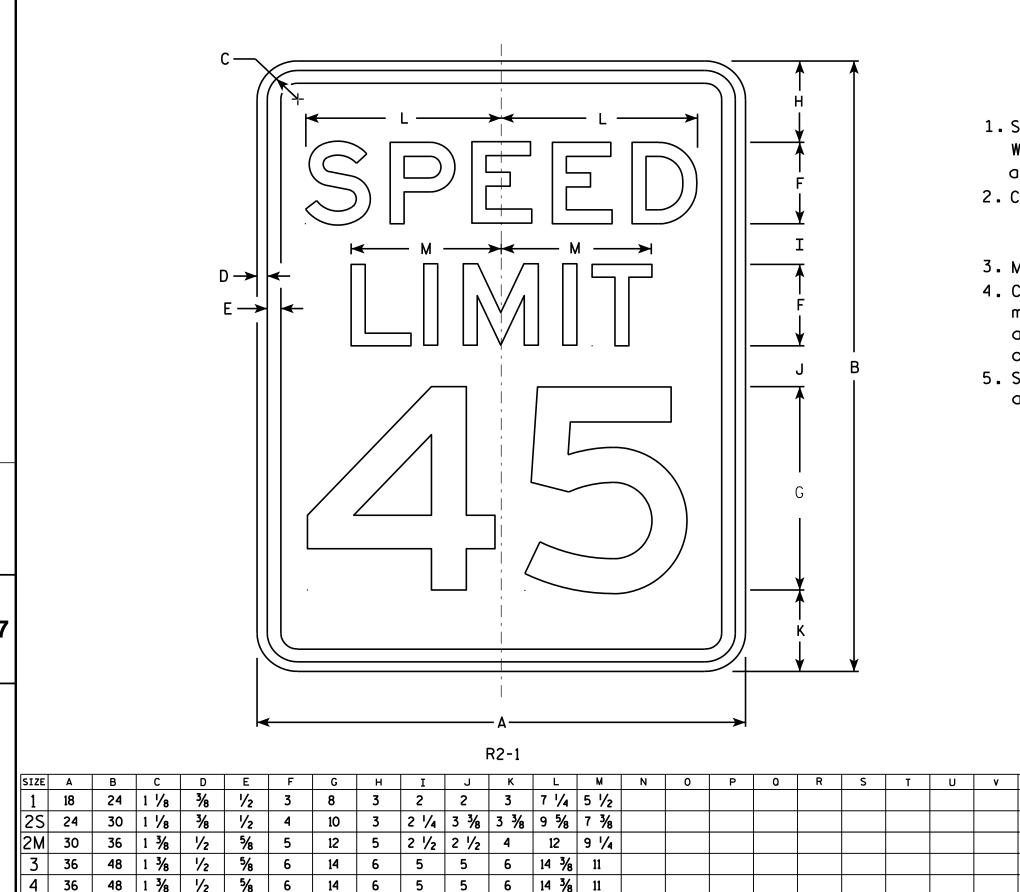
PLOT SCALE: 99.237937:1.000000







WISDOT/CADDS SHEET 42



4 1/2 6 3/4 6 3/4 19 1/4 14 5/8

COUNTY:

20

HWY:

6

# 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.

3.0

5.0

7.5

12.0

12.0

20.0

STANDARD SIGN R2-1

WISCONSIN DEPT OF TRANSPORTATION APPROVED

Matther R Raus For State Traffic Engineer PLATE NO. R2-1.13

DATE <u>5/26/1</u>0

SHEET NO:

2 1/4

60

5

48

PROJECT NO:

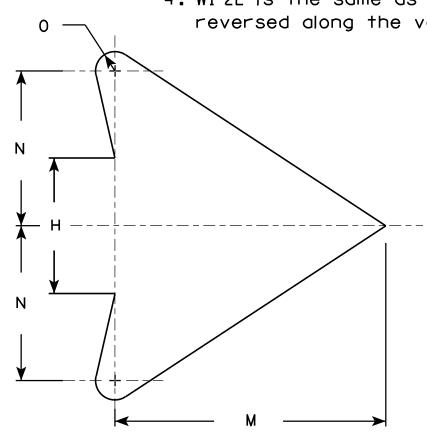
PLOT NAME :

# 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															<u> </u>	ARROW BETAIL										
SIZE	Α	В	С	D	E	F	G	н	I	J	К	L	M	N	0	Р	0	R	S	Т	U	v	W	×	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
25	30		1 3/8	1/2	5/8		10 1/4	4 3/8	5 %	2 1/4	3	9 1/8	8 3/4	5	5/8												6.25
2M	36		1 %	5/8	3/4		12 3/8	5 1/4	6 3/4	2 %	3 1/2	10 1/8	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 %	3 1/2	10 1/8	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 %	3 1/2	10 1/8	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
					•	·		•	•							l		•					•				•

COUNTY:

STANDARD SIGN W1-2

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

Matther R Rauch For State Traffic Engineer

DATE <u>5/15/12</u>

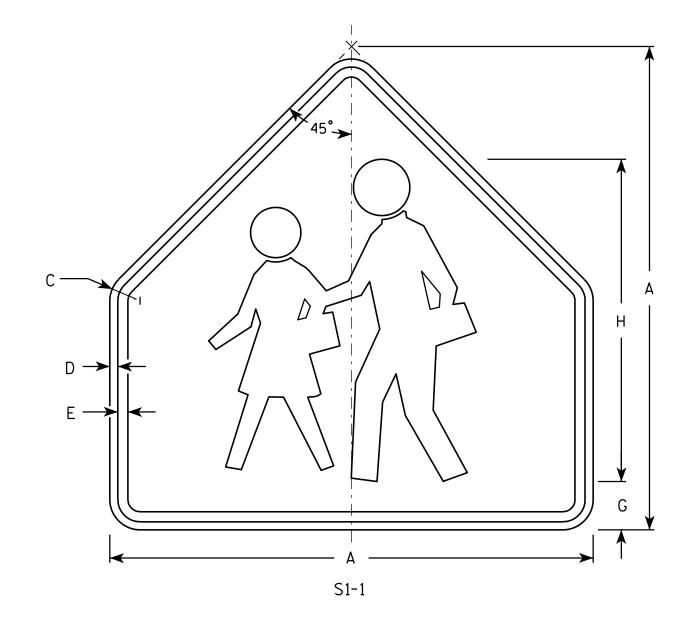
PLATE NO. W1-2.10

SHEET NO:

PROJECT NO:

**←** H →

HWY:



# 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	Α	В	С	D	E	F	G	Н	I	J	К	L	М	N	0	Р	0	R	S	Т	U	٧	W	X	Y	Z	Areg sq. ft.
1	30		1 3/8	1/2	5/8		3	20																			4.69
2	36		1 %	5/8	3/4		3 1/2	24																			6.75
3	36		1 %	5/8	3/4		3 1/2	24																			6.75
4	48		2 1/4	₹4	1		4 3/4	32																			12
5																											

COUNTY:

STANDARD SIGN S1-1

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

Ter State Traffic Engineer

DATE 6/30/05 PLATE NO. S1-1.8

SHEET NO:

FILE NAME : C:\Users\PROJECTS\tr\_stdplate\S11.DGN

PROJECT NO:

HWY:

PLOT DATE: 26-MAY-2010 16:12

PLOT BY : ditjph

PLOT NAME :

PLOT SCALE : 5.959043:1.000000

959043:1.000000 WISDOT/CADDS SHEET 42

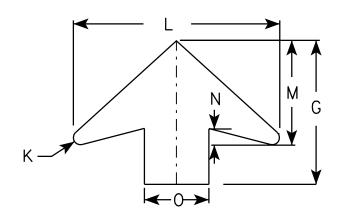
# 00 S3-1

# NOTES

- 1. All Signs Type II Type F Reflective reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
- 2. Color:

Background - YELLOW-GREEN Message - BLACK except as noted Circles except PEDS- RED BACKGROUND

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.



RROW	DFTAII

SIZE	Α	В	С	D	E	F	G	Н	I	J	K	L	М	N	0	Р	0	R	S	Т	U	٧	W	X	Y	Z	Area sq. ft.
1	30		1 3/8	1/2	5/8	6 1/4	11 1/4	12 1/2	5 1/4	5 ½	1/2	16	8	1 1/4	5	1 1/2		6 %	5  %	10 %							6.25
2	36		1 %	5/8	₹4	7 1/2	13 1/2	15 1/8	6 1/4	6 1/2	5/8	19 1/4	9 3/4	1 %	6	1 1/8		7 1/8	6 3/8	12 3/8							9.0
3	48		2 1/4	3/4	1	10	17 1/8	20 1/8	8 %	8 3/4	<b>7</b> ⁄8	25 %	13	2	8	2 1/2		10 1/2	8 1/2	16 1/2							16.0
4	48		2 1/4	₹4	1	10	17 1/8	20 1/8	8 %	8 ¾	<b>1</b> / <sub>8</sub>	25 %	13	2	8	2 1/2		10 1/2	8 1/2	16 1/2							16.0
5																											

STANDARD SIGN S3-1

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

for State Traffic Engineer DATE <u>6/8/10</u>

SHEET NO:

FILE NAME : C:\Users\PROJECTS\tr\_stdplate\S31.DGN

PROJECT NO:

PLATE NO. <u>\$3-1.6</u>

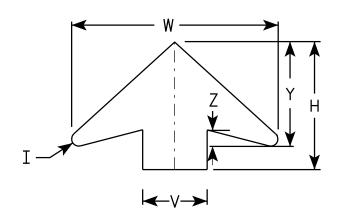
# **NOTES**

- 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 for numbers Series E for wording
- 4. Substitute appropriate numerals and optically adjust spacing to achieve proper balance

\*Speed Limit Sign shall have a White Background



ARROW DETAIL

SIZE	A	В	С	D	E	F	G	н	I	J	K	L	М	N	0	Р	0	R	S	T	U	٧	W	×	Y	Z	Area sq. ft
1																											
25	36		1 1/8	5/8	3/4	14 1/2	9 1/2	11 1/2	5/8	24	2	3	1	12	7 1/8	1 1/2	3/8	5 3/4	7 1/4	7 1/8	9	6	19 1/4	3/8	9 3/4	1 %	9.0
2M	36		1 %	5/8	3/4	14 1/2	9 1/2	11 1/2	5/8	24	2	3	1	12	7 1/8	1 1/2	3/8	5 3/4	7 1/4	7 1/8	9	6	19 1/4	3/8	9 3/4	1 %	9.0
3	36		1 %	5/8	3/4	14 1/2	9 1/2	11 1/2	5/8	24	2	3	1	12	7 1/8	1 1/2	3∕8	5 3/4	7 1/4	7 1/8	9	6	19 1/4	3/8	9 3/4	1 %	9.0
4	48		2 1/4	3/4	1	19 1/4	10 3/4	17 3/8	<b>1</b> /8	30	2 1/4	4	1 1/4	15	10	1 %	1/2	8	9 1/4	9 3/8	12	8	25 %	3/8	13	2	16.0
5	48		2 1/4	3/4	1	19 1/4	10 3/4	17 3/8	<b>7</b> /8	30	2 1/4	4	1 1/4	15	10	1 5/8	1/2	8	9 1/4	9 3/8	12	8	25 %	3/8	13	2	16.0

STANDARD SIGN W3-5

WISCONSIN DEPT OF TRANSPORTATION

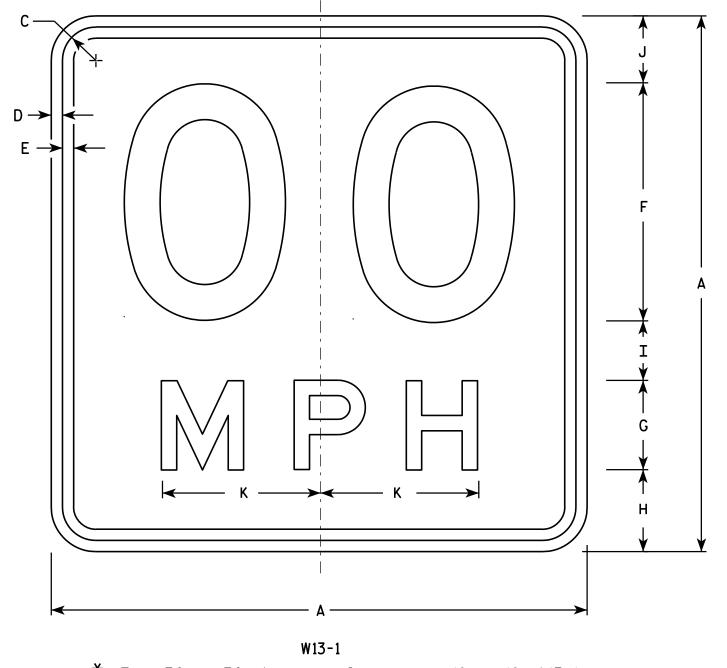
APPROVED

Matther R Rauch.

DATE 5/29/12 PLATE NO. W3-5.5

SHEET NO:

PROJECT NO:



# 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 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. Substitute appropriate numerals and optically space about centerline to achieve proper balance.
- 6. Line 1 is Series D Line 2 is Series E

\* For 30"  $\times$  30" Warning Signs, use 18"  $\times$  18" W13-1 signs. For 36"  $\times$  36" Warning Signs, use 24"  $\times$  24" W13-1 signs.

SIZE	A	В	С	D	E	F	G	Н	I	J	K	L	М	N	0	Р	0	R	S	T	U	٧	W	X	Y	Z	Area sq. ft.
1	18		1 1/8	3∕8	3/8	8	3	2 3/4	2	2 1/4	5 3/8																2.25
<b>*</b> 2S	18		1 1/8	3∕8	3/8	8	3	2 3/4	2	2 1/4	5 %																2.25
* 2M	18		1 1/8	3/8	3/8	8	3	2 3/4	2	2 1/4	5 3/8																2.25
3	24		1 1/8	3/8	1/2	10	4	4	2 3/4	3 1/4	6 5/8																4.00
4	36		1 1/8	5/8	3/4	16	6	5 1/2	4	4 1/2	10 %																9.00
5	36		1 5/8	5/8	3/4	16	6	5 1/2	4	4 1/2	10 %																9.00

STANDARD SIGN W13-1

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

Matthew & Ram

 $f_{or}$  State Traffic Engineer S1/12 PLATE NO. W13-1.16

DATE <u>5/31/12</u>

SHEET NO:

FILE NAME : C:\CAEFiles\Projects\tr\_stdplate\W131.DGN

PLOT DATE: 31-MAY-2012 10:57

PLOT NAME :

PLOT BY: mscsja

PLOT SCALE: 3.225232:1.000000

WISDOT/CADDS SHEET 42

Notes



# Wisconsin Department of Transportation

Dedicated people creating transportation solutions through innovation and exceptional service.

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