### MAY 2017

ORDER OF SHEETS

Section No. 1 Typical Sections and Details Estimate of Quantitles Miscellaneous Quantities

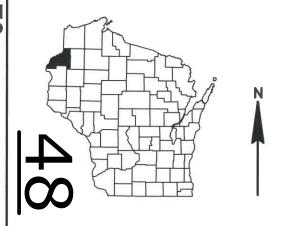
Plan and Profile Section No. 5

Standard Detail Drawings Section No. 6 Section No. 7 Sian Plates

Computer Farthwork Date

Cross Sections

TOTAL SHEETS = 90



#### DESIGN DESIGNATION

A.A.D.T. 2017 = 320 2037 = 480 A.A.D.T. D.H.V. D.D. = N/A = 10% DESIGN SPEED = 55 **ESALS** = 94.900

#### CONVENTIONAL SYMBOLS

CORPORATE LIMITS PROPERTY 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

WOODED OR SHRUB AREA

MARSH AREA

PROFILE GRADE LINE ORIGINAL GROUND MARSH OR ROCK PROFILE (To be noted as such) SPECIAL DITCH GRADE ELEVATION CULVERT (Profile View) UTILITIES FIBER OPTIC

SANITARY SEWER STORM SEWER TELEPHONE UTILITY PEDESTAL POWER POLE Ġ TELEPHONE POLE

LABEL

# STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

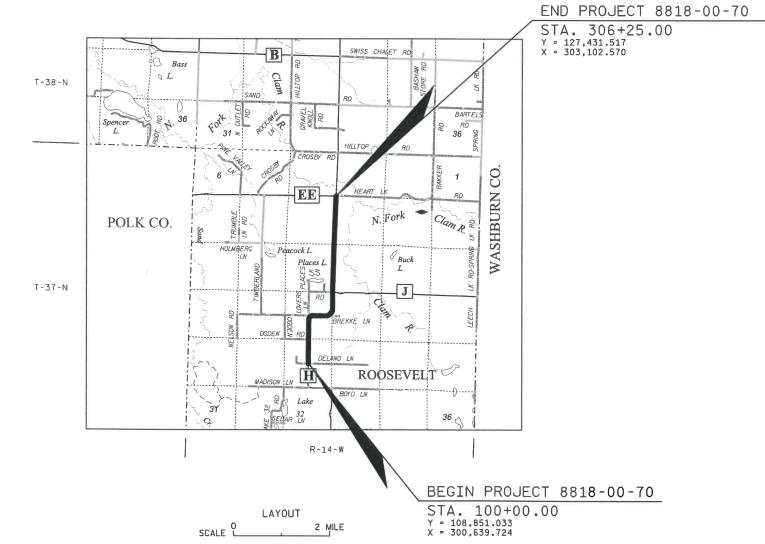
PLAN OF PROPOSED IMPROVEMENT

# **CUMBERLAND - STH 70**

**DELANO ROAD - CTH EE** 

CTH H **BURNETT COUNTY** 

> STATE PROJECT NUMBER 8818-00-70



JAY P.

Mead

FEDERAL PROJECT

ACCEPTED FOR

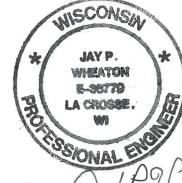
CONTRACT

PROJECT

WISC 2017298

STATE PROJECT

8818-00-70



# STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

PREPARED BY Surveyor

MEAD & HUNT Designer

KNIGHT E/A INC.

TOTAL NET LENGTH OF CENTERLINE = 3.906 MILES

COORDINATES, BURNETT

HORIZONTAL POSITIONS SHOWN ON THIS PLAN ARE WISCONSIN COUNTY COORDINATES, BURNETT COUNTY, NADB3 (2011), IN U.S. SURVEY FEET. VALUES ARE GRID COORDINATES, GRID BEARINGS, AND GRID

DISTANCES. GRID DISTANCES MAY BE USED AS GROUND DISTANCES

#### **GENERAL NOTES**

ELEVATIONS SHOWN ON THE PLANS ARE REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88).

WHEN THE QUANTITY OF BASE AGGREGATE OR ASPHALTIC SURFACE IS MEASURED FOR PAVEMENT 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.

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

THE EXACT LOCATION OF EROSION CONTROL DEVICES SHALL BE DETERMINED IN THE FIELD.

BEARINGS SHOWN ON THE PLANS ARE GRID BEARING TO NEAREST SECOND.

THE VERTICAL SAWCUT SHALL BE MADE THROUGH THE EXISTING PAVEMENT AT REMOVAL LIMITS.

SILT FENCE IS TO BE PLACED AS SHOWN ON THE PLANS OR AS DIRECTED BY THE ENGINEER, AND IN PLACE PRIOR COMMENCING ROADWAY WORK.

SHRINKAGE IS ESTIMATED AT 25%.

THE LOCATION OF EXISTING AND PROPOSED UTILITY INSTALLATIONS AS SHOWN ON THE PLANS ARE APPROXIMATE. THERE MAY BE OTHER UTILITY INSTALLATIONS WITH IN THE PROJECT AREA THAT ARE NOT SHOWN.

TEMPORARY STORAGE OF ANY EXCAVATED MATERIALS WILL NOT BE PERMITTED IN THE WETLANDS.

DISTURBED AREA WITHIN THE RIGHT-OF-WAY, EXCEPT THE AREAS WITHIN THE FINISHED SHOULDER POINTS, ARE TO BE 4-INCH SALVAGED TOPSOIL, FERTILIZED, SEEDED AND MULCH.

CULVERT PIPES MARKED FOR REPLACEMENT SHALL BE REPLACED WITH THE SAME OUT LOCATIONS AND INVERT ELEVATIONS AS THE EXISTING PIPE BEING REMOVED.

EXACT LIMITS OF THE FULL DEPTH REPLACEMENT AREAS TO BE DETERMINED BY THE ENGINEER.

# ORDER OF SECTION 2 SHEETS

TYPICAL SECTIONS
CONSTRUCTION DETAILS

#### UTILITIES

\*\* POLK-BURNETT ELECTRIC COOPERATIVE 1001 STATE ROAD 35 SIREN, W 54872 ATTN: MIKE PETERSON PHONE: (715) 646-2191 EXT 336 EMAIL: MPETERSON@POLKBURNETT.COM

\*\* BARRON ELECTRIC COOPERATIVE
P.O. BOX 261
SPOONER, W 54801
ATTN: SCOTT DEVOE
PHONE: (715) 418-1182
EMAIL: SDEVOE@BARRONELECTRIC.COM

\*\* CENTURYLINK
W5604 MAIN STREET
P.O. BOX 13
SHELDON, WI 54766
ATTN: MIKE VANDENBOS
PHONE: (715) 294-2463
EMAIL: MIKE.VANDENBOS@CENTURYLINK.COM

\*\* THESE ARE MEMBERS OF DIGGERS HOTLINE

#### <u>DNR</u>

WISCONSIN DEPARTMENT OF NATURAL RESOURSES 810 WEST MAPLE STREET SPOONER, WI 54801 ATTN: AMY CRONK PHONE: (715) 635-4229 EMAIL: AMY.CRONK@WISCONSIN.GOV

**DESIGN CONSULTANT** 



MEAD & HUNT, INC.
750 NORTH THIRD STREET
LA CROSSE, W 54601
ATTN: JAY P. WHEATON, P.E.
PHONE: (608) 784-6040
MOBILE: (608) 386-0212
EMAIL: JAY.WHEATON@MEADHUNT.COM

#### **BURNETT COUNTY**

BURNETT COUNTY HIGHWAY COMMISSIONER 8150 STATE ROAD 70 SIREN, W 54872 ATTN: MICHAEL HOEFS PHONE: (715) 349-2285 CELL: (715) 497-8810 EMAIL: MHOEFS@BURNETTCOUNTY.ORG



#### STANDARD ABBREVIATIONS

AGG ASPH BM BOC C&G CE CL COR CWT CY	BENCH MARK BACK OF CURB CURB AND GUTTER COMMERCIAL ENTRANCE CENTERLINE CORNER HUNDREDWEIGHT CUBIC YARD DESIGN HOURLY VOLUME DRIVEWAY ELEVATION EXISTING EXCAVATION	R/W SF	RIGHT—HAND FORWARD RIGHT REFERENCE LINE RIGHT—OF—WAY SQUARE FOOT SHOULDER STORM SEWER STATION SQUARE YARD TRUCKS (PERCENT OF) TELEPHONE
	=		
LB	POUND	UG	UNDERGROUND CABLE
LF		VAR	VARIABLE
LHF	LEFT-HAND FORWARD	VC	VERTICAL CURVE
LS	LUMP SUM	VPC	
LT	LEFT	VPI	
Mgal	MEGAGALLON	VPT	VERTICAL POINT OF TANGENCY

#### RUNOFF COEFFICIENT TABLE

				HYDROLOGIC SOIL GROUP								
	A		В			С			D			
	SLOPE	RANGE	(PERCENT)	SLOPE RANGE (PE		(PERCENT)	SLOPE RANGE (PERCENT)		(PERCENT)	SLOPE RANGE (PERCENT		
LAND USE:	0-2	2-6	6 & OVER	0-2	2-6	6 & OVER	0-2	2-6	6 & OVER	0-2	2-6	6 & OVER
ROW CROPS	.08	.16 .30	.22 .38	.12	.20 .34	.27 .44	.15	.24 .37	.33 .50	.19	.28 .41	.38 .56
MEDIAN STRIP- TURF	.19 .24	.20	.24 .30	.19 .25	.22	.26 .33	.20 .26	.23	.30 .37	.20 .27	.25	.30 .40
SIDE SLOPE- TURF			.25 .32			.27 .34			.28 .36			.30 .38
PAVEMENT:												•
ASPHALT						.7095						
CONCRETE						.8095						
BRICK	.7080											
DRIVES, WALKS	LKS .7585											
ROOFS	ROOFS .7595											
GRAVEL ROADS,	SHOULDE	RS				.4060						

TOTAL PROJECT AREA = 31.25 ACRES

TOTAL AREA EXPECTED TO BE DISTURBED BY CONSTRUCTION ACTIVITIES = 20.83 ACRES

COUNTY: BURNETT GENERAL NOTES

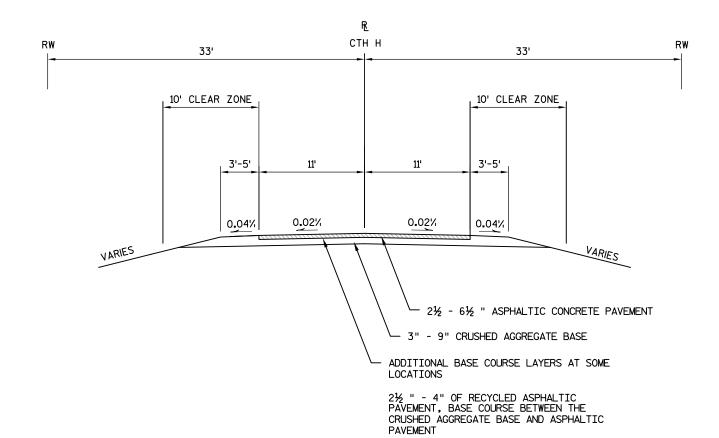
PLOT BY : JEFF BREU

PLOT NAME :

PLOT SCALE : 1 IN:50 FT

E

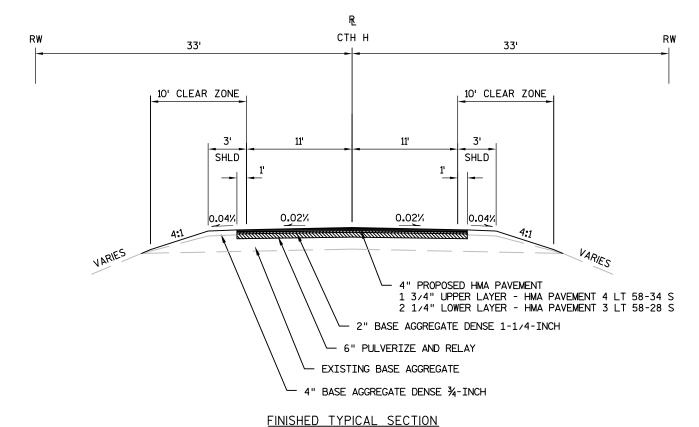
SHEET



EXISTING TYPICAL SECTION

STA 100+00 TO STA 306+25

BORING LOG ASPHALTIC RECYCLED OFFSET SURFACE CABC STATION ASPHALT 303+25 5' LT 3.25" 2.5" 3" 277+35 5' LT 2.5" 4" 253+50 5' LT 3" 3" 230+00 5' LT 3.25" 3.5" 201+00 5' RT 3.5" 8.5" 170+60 5' RT 5.5" 9" 142+50 5' RT 6.5" 4" 105+50 5' RT 3" 4.5"



#### INISHED THICAL SECTION

NORMAL CROWN SHOWN

 STA 100+00 TO STA 101+00
 STA 234+81 TO STA 241+35

 STA 103+60 TO STA 115+50
 STA 242+35 TO STA 248+50

 STA 116+25 TO STA 189+79
 STA 250+75 TO STA 253+10

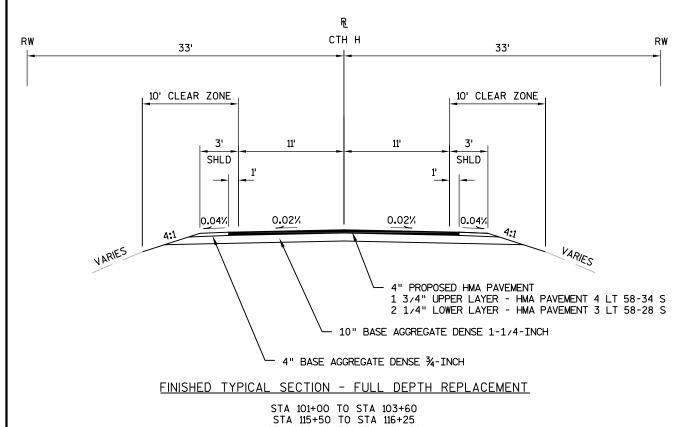
 STA 190+79 TO STA 202+80
 STA 256+40 TO STA 282+95

 STA 222+80 TO STA 233+81
 STA 301+00 TO STA 306+25

PROJECT NO:8818-00-70 HWY:CTH H COUNTY:BURNETT TYPICAL SECTIONS SHEET **E** 



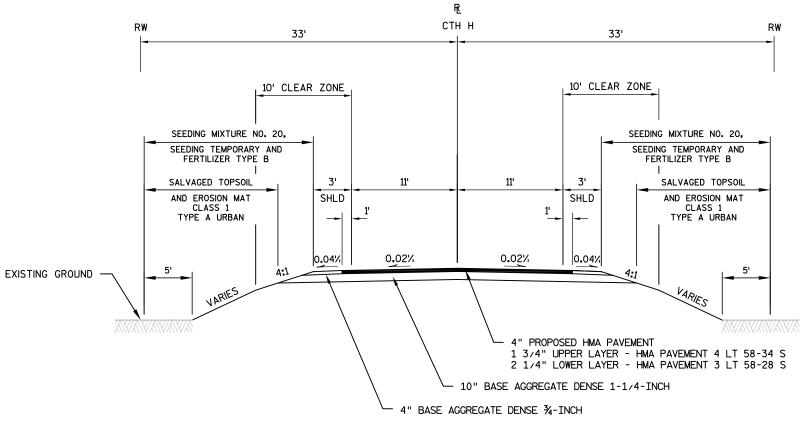




STA 248+50 TO STA 250+75 STA 253+10 TO STA 256+40

STA 282+95 TO STA 284+45

STA 298+15 TO STA 301+00



# STA 202+80 TO STA 206+50 STA 214+90 TO STA 221+24 STA 222+24 TO STA 222+80 FINISHED TYPICAL SECTION - CULVERT REPLACEMENT

NORMAL CROWN SHOWN

STA 189+79 TO STA 190+79 STA 221+24 TO STA 222+24 STA 233+81 TO STA 234+81 STA 241+35 TO STA 242+35

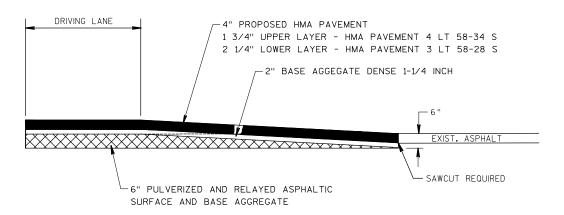
PROJECT NO:8818-00-70 HWY:CTH H COUNTY:BURNETT TYPICAL SECTIONS SHEET **E** 

2

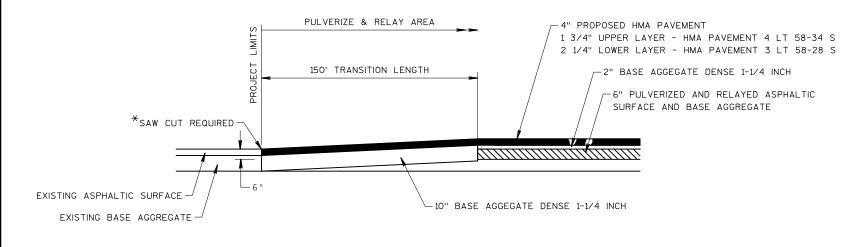
TION	_
OPE LT LANE	SLOPE RT LANE
-2.00	-2.00
0.00	-2.00
2.00	-2.00
5.00	-5.00
5.70	-5.70
5.70	-5.70
5.00	-5.00
2.00	-2.00
0.00	2.00

	SUPERELEVATION TRANSITION							
	STATION	DESCRIPTION	SLOPE LT LANE	SLOPE RT LANE				
	146+50.18	END NORMAL CROWN	-2.00	-2.00				
	146+88.77	LEVEL CROWN	0.00	-2.00				
	147+27.37	REVERSE CROWN	2.00	-2.00				
	147+85.26	LOW SHOULDER MATCH	5.00	-5.00				
/E	147+98.77	BEGIN FULL SUPER	5 <b>.</b> 70	-5.70				
CURVE	154+73.67	END FULL SUPER	5 <b>.</b> 70	-5.70				
じ	154+87.18	LOW SHOULDER MATCH	5.00	-5.00				
	155+45.08	REVERSE CROWN	2.00	-2.00				
	155+83.67	LEVEL CROWN	0.00	-2.00				
	156+22.27	BEGIN NORMAL CROWN	-2.00	-2.00				
	168+18.66	END NORMAL CROWN	-2.00	-2.00				
	168+57.26	LEVEL CROWN	-2.00	0.00				
	168+95.86	REVERSE CROWN	-2.00	2.00				
2	169+53.75	LOW SHOULDER MATCH	-5.00	5.00				
/E	169+67.26	BEGIN FULL SUPER	-5.70	5.70				
CURVE	172+66.21	END FULL SUPER	-5.70	5.70				
ರ	172+79.72	LOW SHOULDER MATCH	-5.00	5.00				
	173+37.61	REVERSE CROWN	-2.00	2.00				
	173+76.21	LEVEL CROWN	-2.00	0.00				
	174+14.81	BEGIN NORMAL CROWN	-2.00	-2.00				
	175+17.09	END NORMAL CROWN	-2.00	-2.00				
	175+55.68	LEVEL CROWN	-2.00	0.00				
	175+94.28	REVERSE CROWN	-2.00	2.00				
М	176+52.17	LOW SHOULDER MATCH	-5.00	5.00				
/E	176+65.68	BEGIN FULL SUPER	-5.70	5.70				
CURVE	179+74.81	END FULL SUPER	-5.70	5 <b>.</b> 70				
ご	179+88.32	LOW SHOULDER MATCH	-5.00	5.00				
	180+46.22	REVERSE CROWN	-2.00	2.00				
	180+84.81	LEVEL CROWN	-2.00	0.00				
	181+23.41	BEGIN NORMAL CROWN	-2.00	-2.00				

PROJECT NO:8818-00-70 HWY:CTH H COUNTY:BURNETT TYPICAL SECTIONS SHEET **E** 

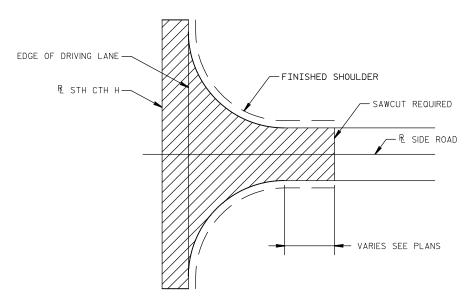


#### PROFILE VIEW



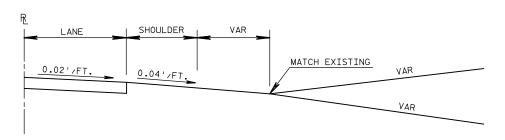
# JOINT TRANSITION DETAIL AT PROJECT LIMITS

\*EXACT LOCATION TO BE DETERMINED BY THE ENGINEER IN THE FIELD.

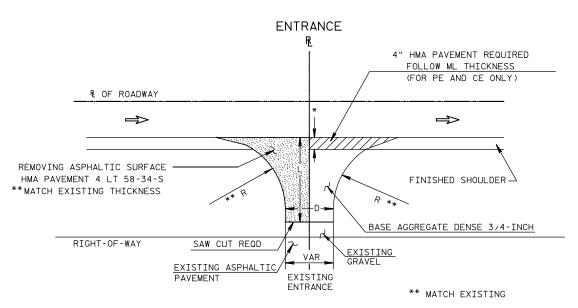


PLAN VIEW

# INTERSECTION JOINT TRANSITION DETAIL



#### PROFILE VIEW



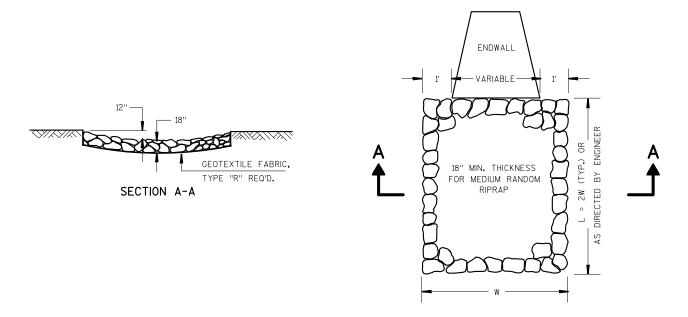
L=VARIABLE, EXACT LENGTH TO BE DETERMINED IN THE FIELD BY THE ENGINEER.

\* 3' MIN OR TO FINISHED SHOULDER WHICH EVER IS GREATER.

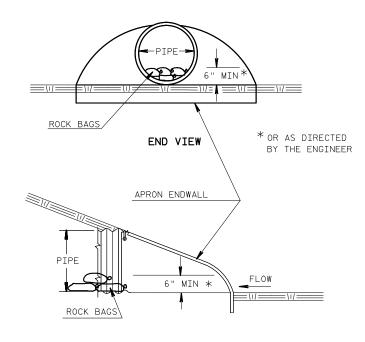
D=DRIVEWAY WIDTH D=MATCH EXISTING

### PLAN VIEW

#### RURAL DRIVEWAY INTERSECTION DETAIL (PE's, FE's & CE'S) (FOR RESURFACING PROJECTS)



# MEDIUM RIPRAP TREATMENT AT CULVERTS

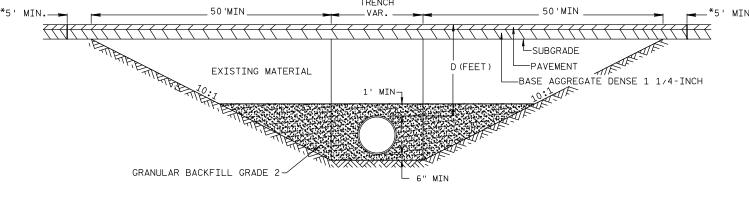


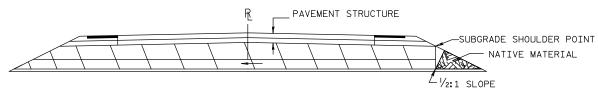
SIDE VIEW

# CULVERT PIPE CHECK

PROJECT NO:8818-00-70 COUNTY: BURNETT CONSTRUCTION DETAILS SHEET E HWY: CTH H PLOT BY: JEFF BREU PLOT NAME :

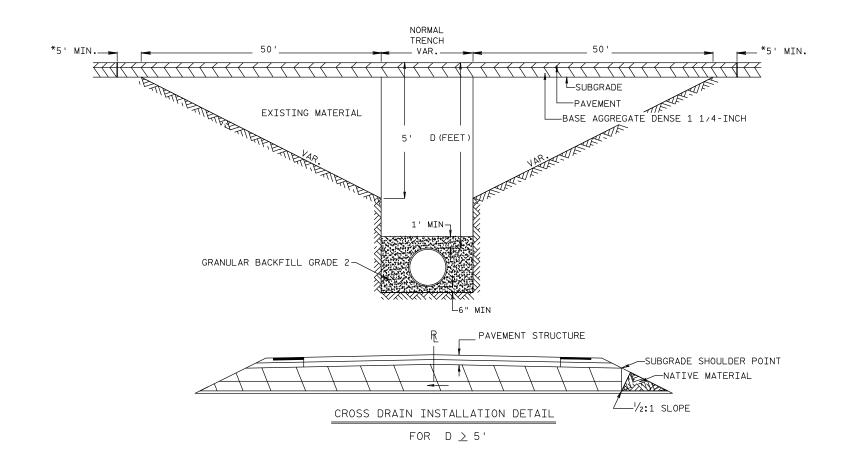
\*5' MIN. — 50'MIN \_\_\_\_\_\_ 50'MIN \_\_\_\_\_\_ 50'MIN \_\_\_\_\_\_ 50'MIN \_\_\_\_\_\_ 50'MIN.





 $\frac{\texttt{CROSS DRAIN INSTALLATION DETAIL}}{\texttt{FOR D} \ \leq \ 5 \ '}$ 

\* PAVEMENT REMOVAL LIMITS (TYPICAL)



FILE NAME : X:\2721000\155979.01\TECH\CAD\88180070\SHEETSPLAN\021001-CD.DWG LAYOUT NAME - 021001-CD - 021003\_CD

HWY: CTH H

PROJECT NO:8818-00-70

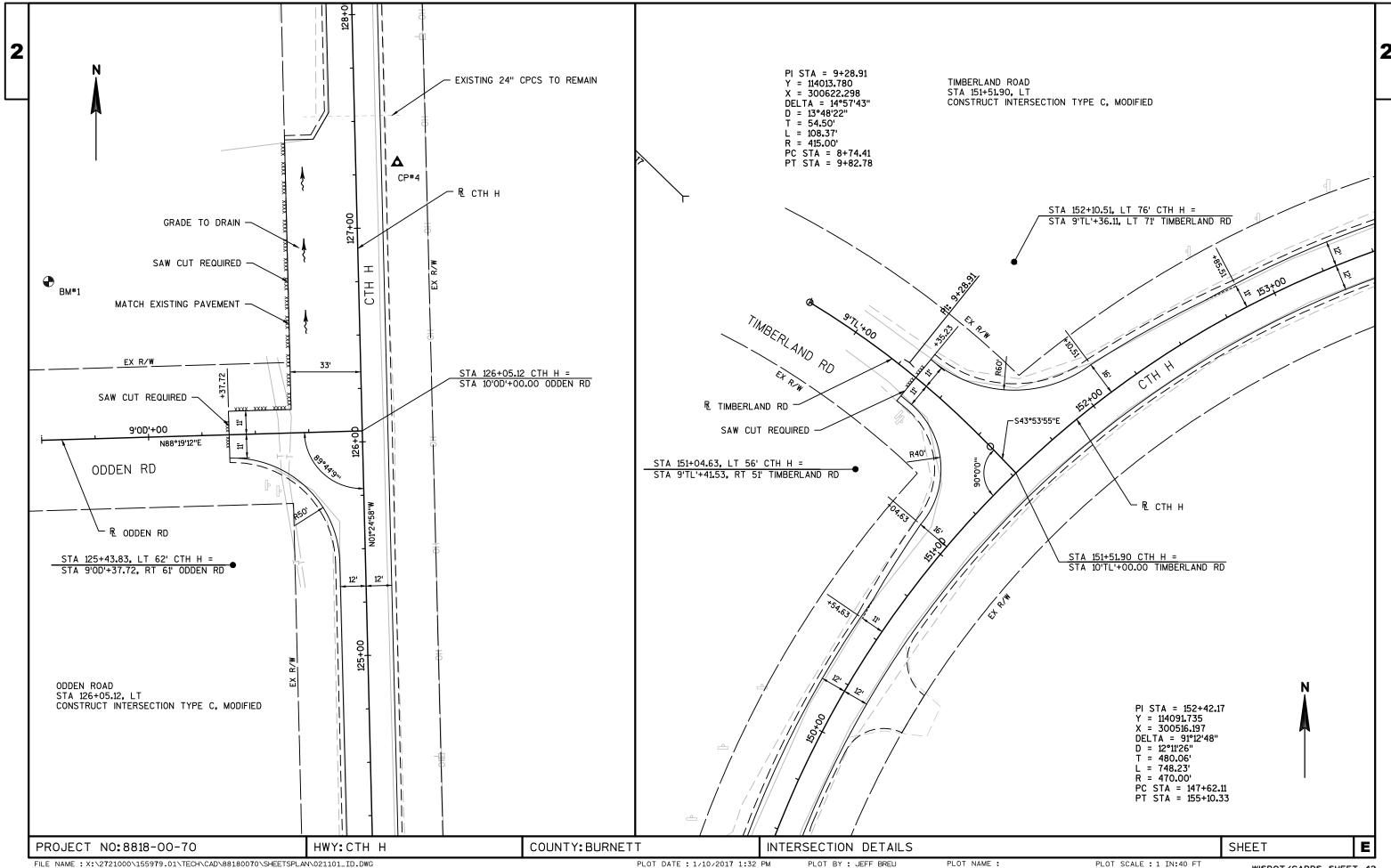
COUNTY: BURNETT

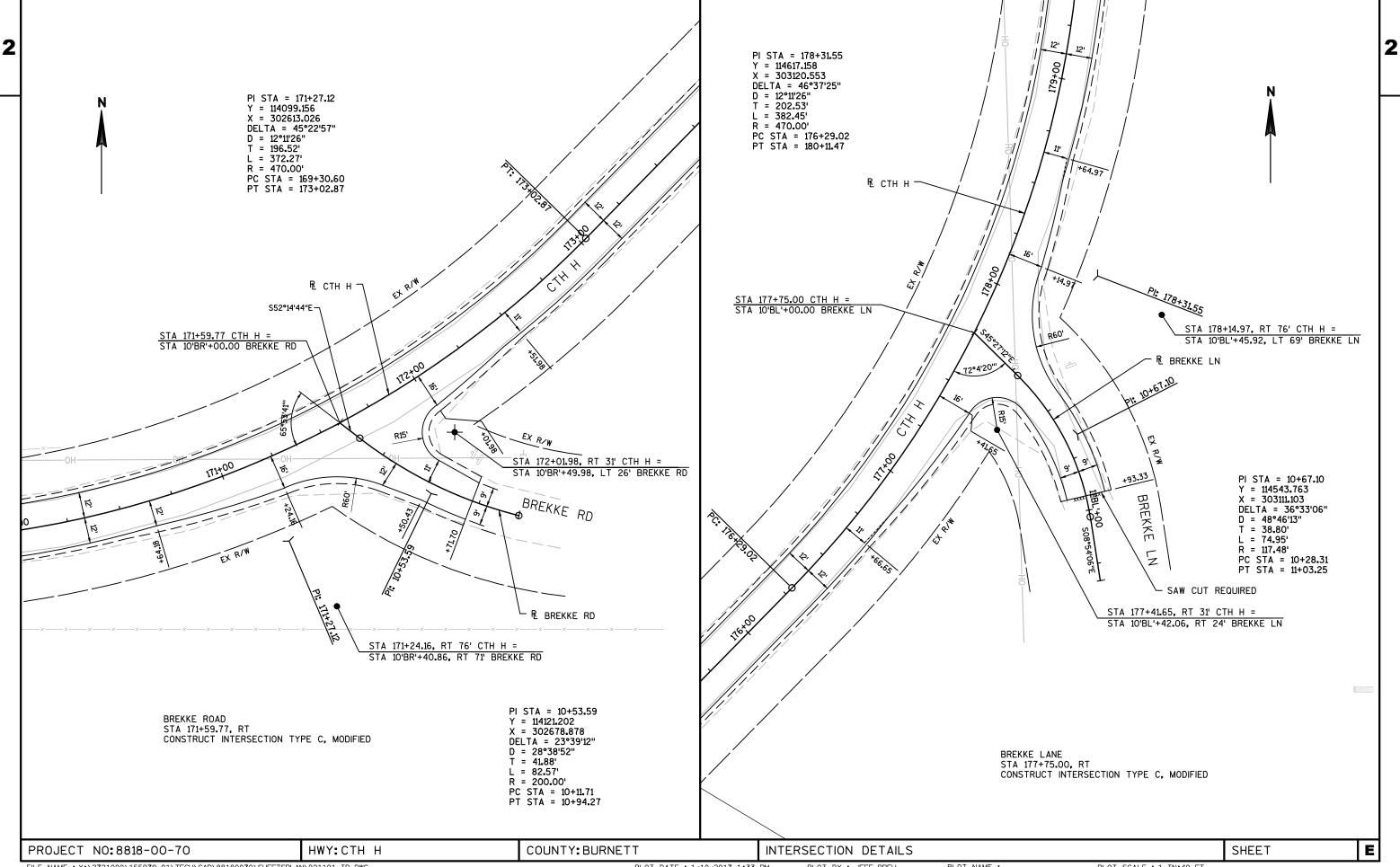
PLOT NAME :

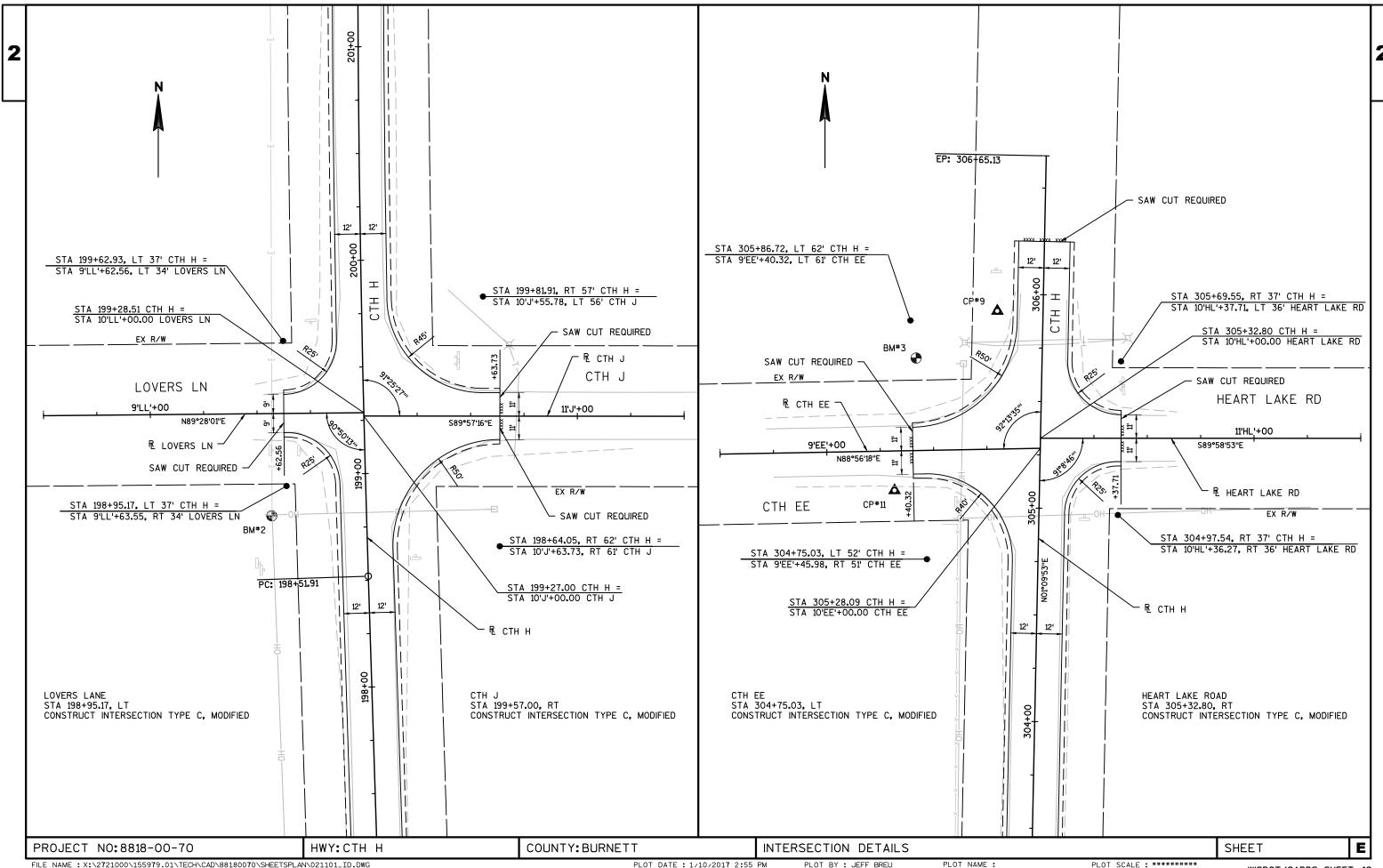
CONSTRUCTION DETAILS

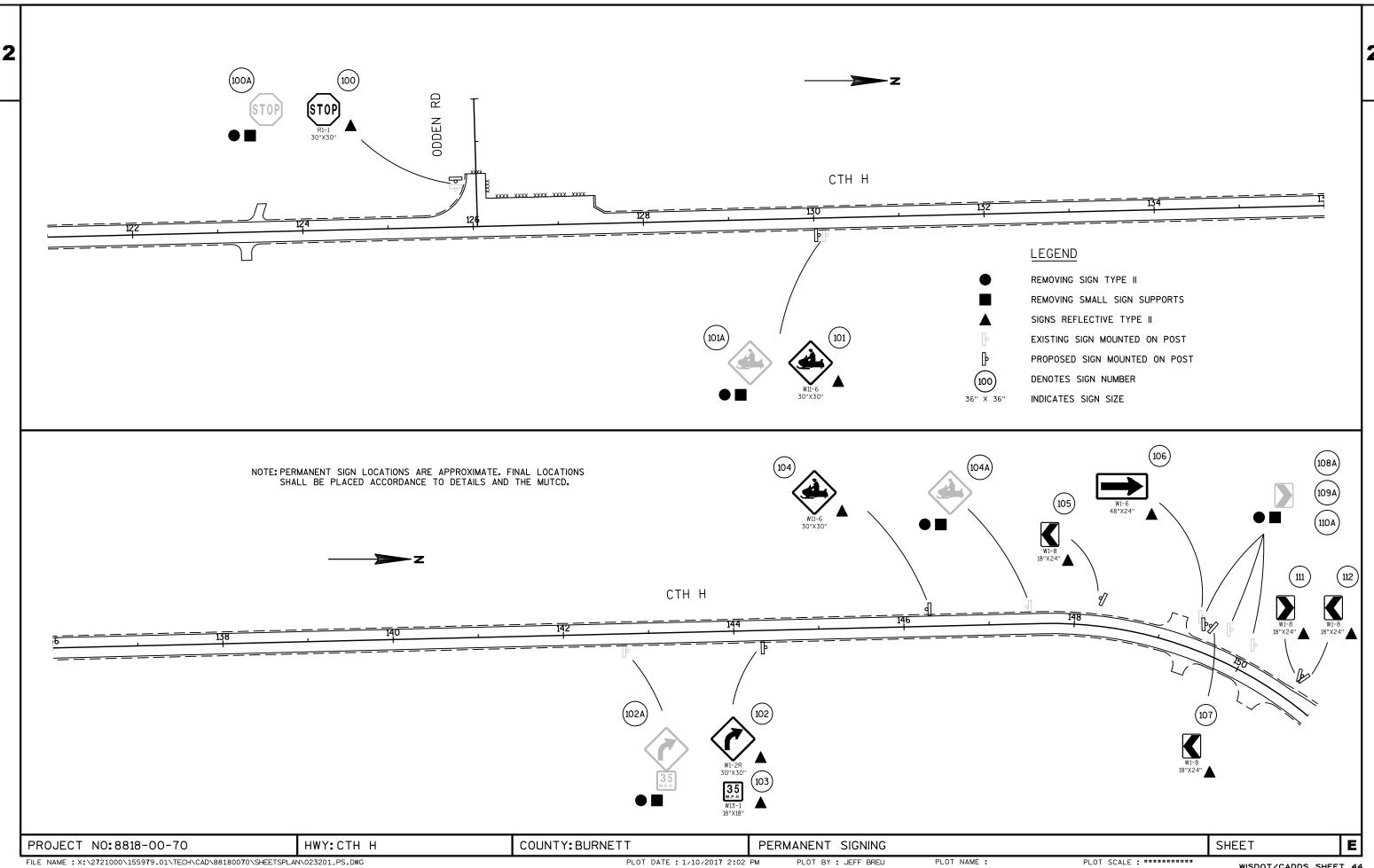
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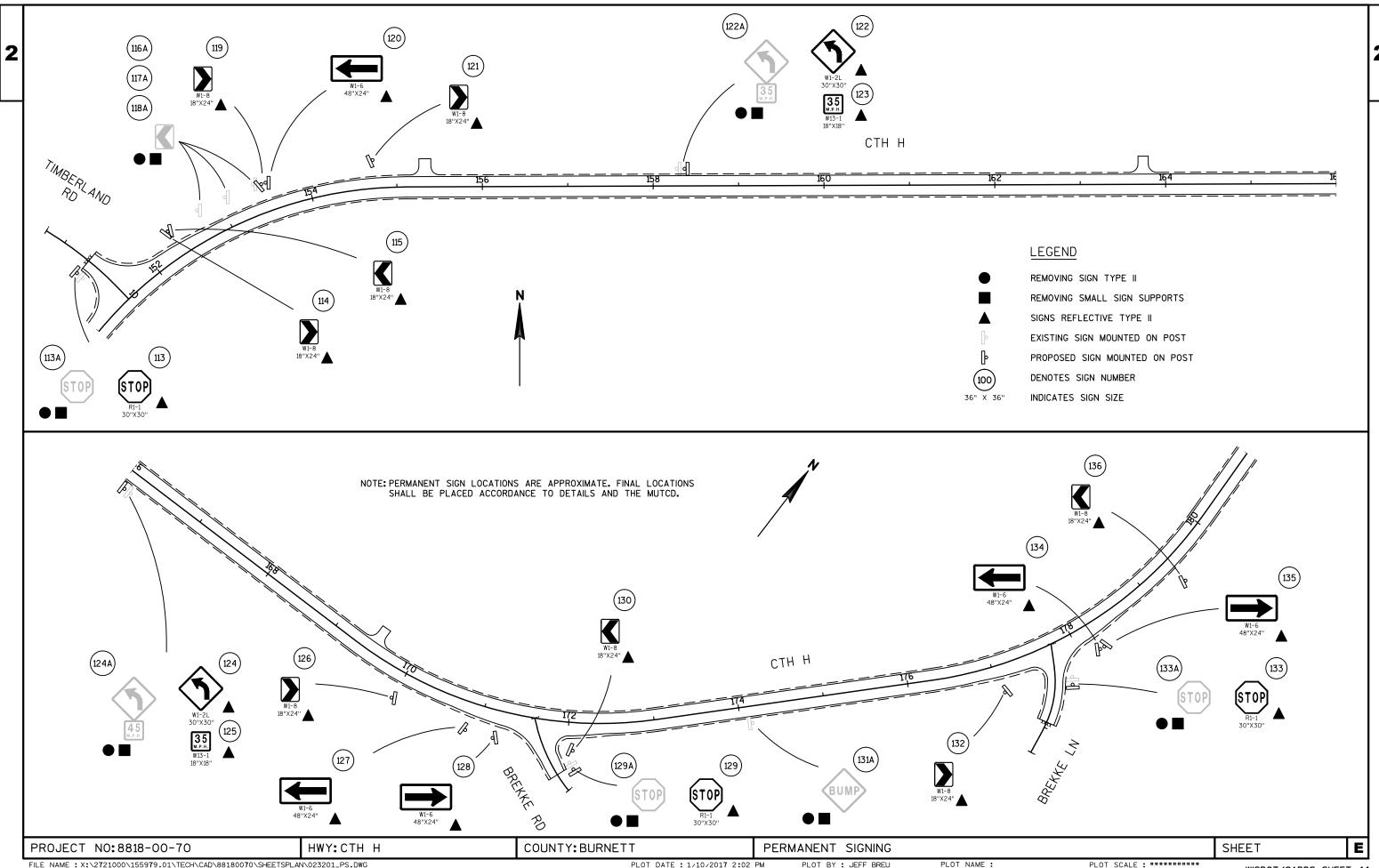
SHEET

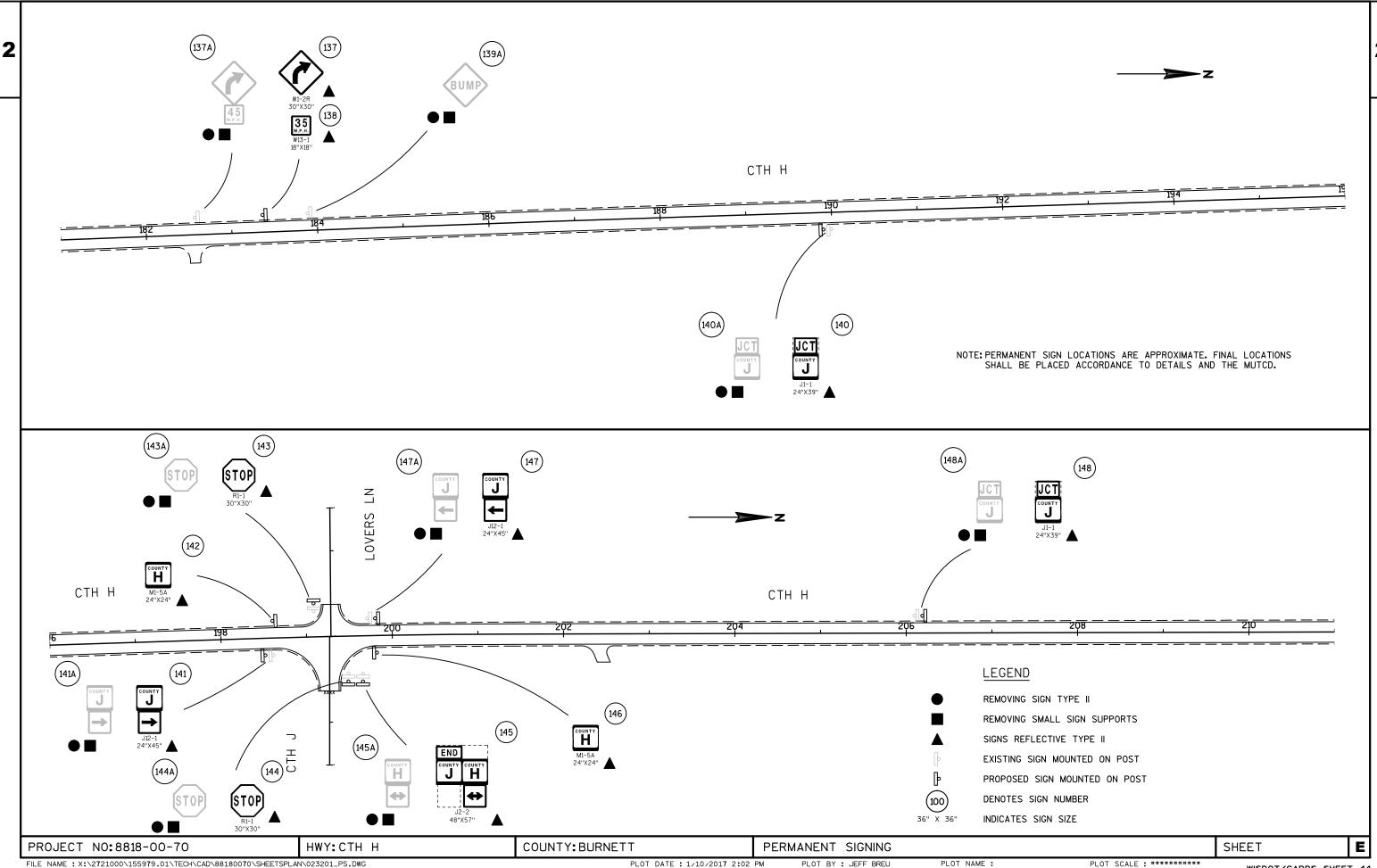


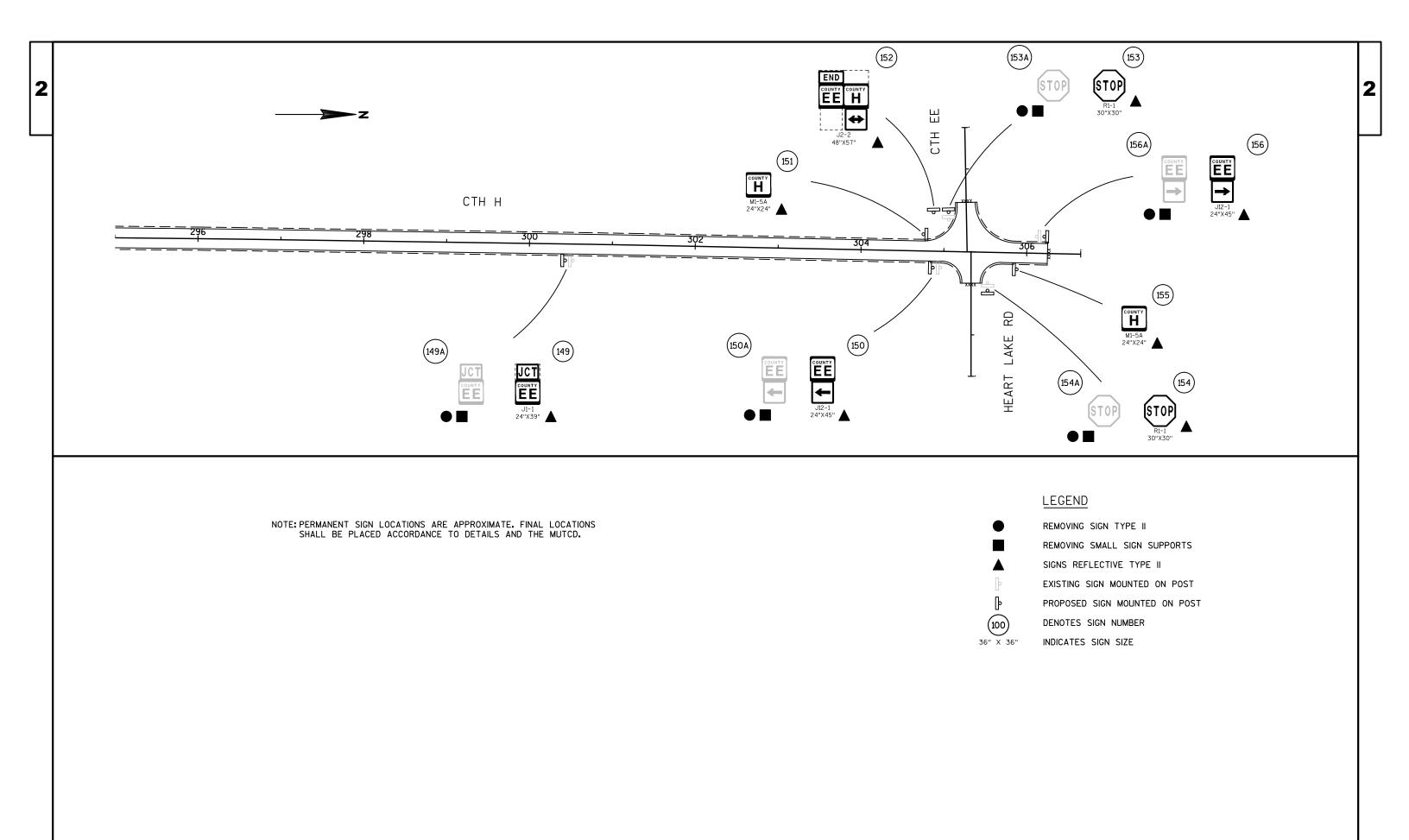


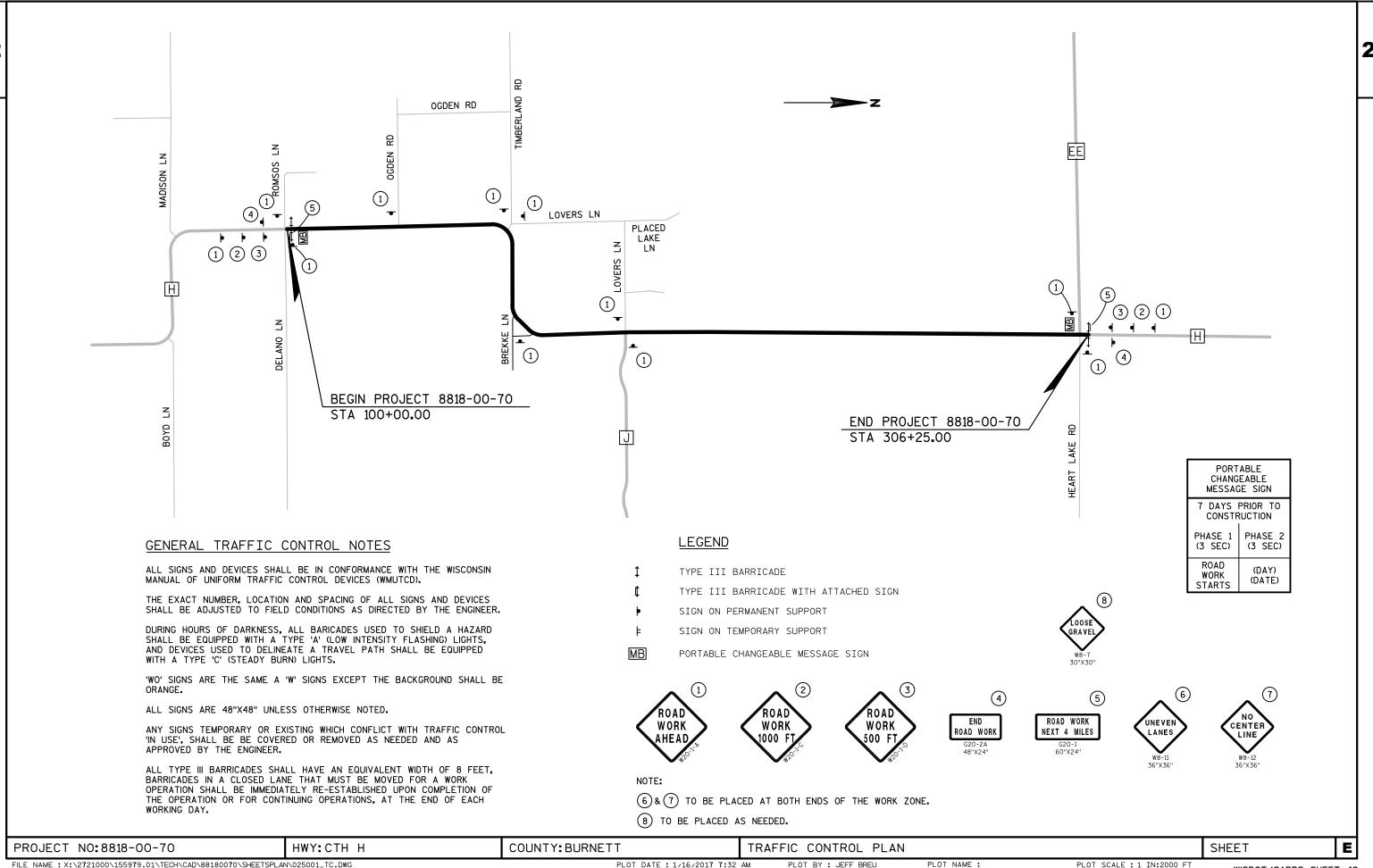




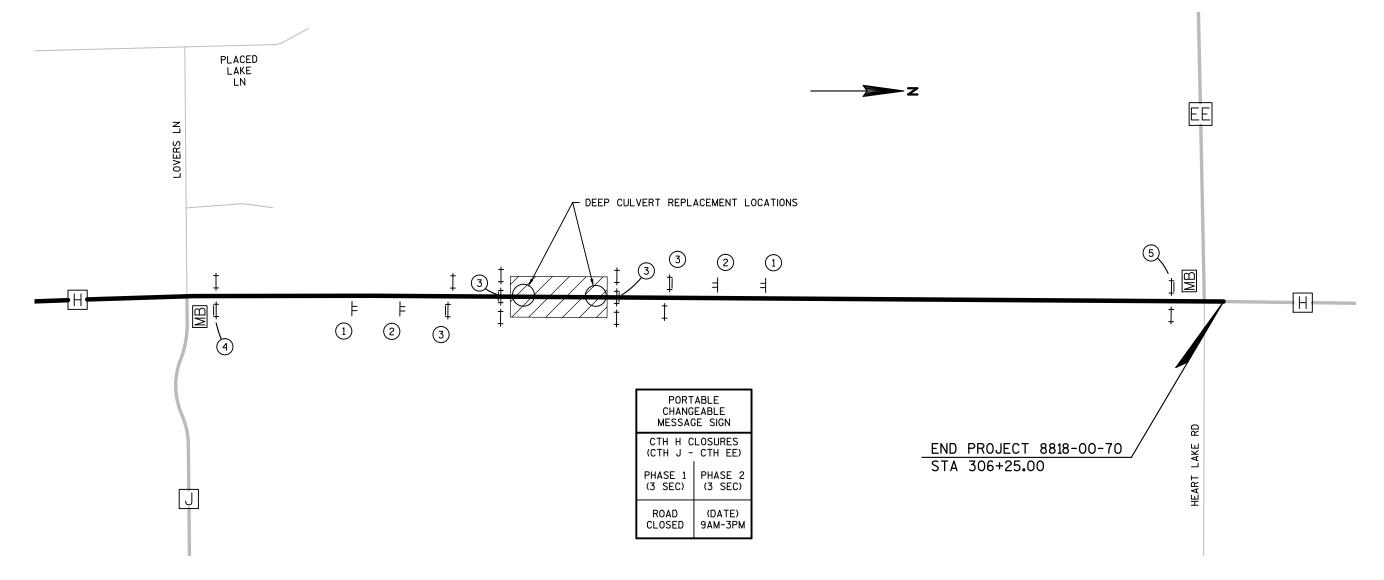












## GENERAL TRAFFIC CONTROL NOTES

ALL SIGNS AND DEVICES SHALL BE IN CONFORMANCE WITH THE WISCONSIN MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (WMUTCD).

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

DURING HOURS OF DARKNESS, ALL BARICADES USED TO SHIELD A HAZARD SHALL BE EQUIPPED WITH A TYPE 'A' (LOW INTENSITY FLASHING) LIGHTS, AND DEVICES USED TO DELINEATE A TRAVEL PATH SHALL BE EQUIPPED WITH A TYPE 'C' (STEADY BURN) LIGHTS.

'WO' SIGNS ARE THE SAME A 'W' SIGNS EXCEPT THE BACKGROUND SHALL BE ORANGE.

ALL SIGNS ARE 48"X48" UNLESS OTHERWISE NOTED.

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

ALL TYPE III BARRICADES SHALL HAVE AN EQUIVALENT WIDTH OF 8 FEET, BARRICADES IN A CLOSED LANE THAT MUST BE MOVED FOR A WORK OPERATION SHALL BE IMMEDIATELY RE-ESTABLISHED UPON COMPLETION OF THE OPERATION OR FOR CONTINUING OPERATIONS, AT THE END OF EACH WORKING DAY.

### **LEGEND**

TYPE III BARRICADE

TYPE III BARRICADE WITH ATTACHED SIGN

SIGN ON TEMPORARY SUPPORT

MB PORTABLE CHANGEABLE MESSAGE SIGN

WORK AREA









ROAD CLOSED

1 MILES AHEAD
LOCAL TRAFFIC ONLY

R11-3
60"X30"

# GENERAL NOTES FOR CHANGEABLE MESSAGE SIGNS

PCMS = PORTABLE CHANGEABLE MESSAGE SIGN

CONSIDER ROADWAY GEOMETRY WHEN LOCATING MESSAGE SIGNS. PLACE THE SIGNS SO THE DRIVER HAS A CLEAR VIEW OF THE MESSAGE FOR A MINIMUM OF 1,000 FEET.

MESSAGE SIGNS SHOULD BE PLACED AS FAR AWAY FROM LIVE TRAFFIC LANES AS POSSIBLE WITHOUT HAMPERING VISIBILITY. IN ADVANCE OF CONSTRUCTION PROJECTS, THE SIGNS SHOULD BE PLACED ON THE BACKSLOPE BEYOND THE DITCH. THE LOCATION SHOULD BE AT OR SLIGHTLY ABOVE THE ELEVATION OF THE ROADWAY.

WHERE SITE CONDITIONS DO NOT ALLOW, THE SIGNS MAY BE PLACED ON THE SHOULDER, THE SITE SHOULD BE VISITED TO ASSURE VISIBILITY, SAFETY AND MAINTENANCE CONSIDERATIONS. A TAPER OF REFLECTORIZED DRUMS OR BARRICADES SHOULD BE PLACED AHEAD OF A PCMS THAT IS PLACED ON THE SHOULDER IF IT NOT SHIELD BY A BARRIER.

MESSAGE SIGNS ARE TO BE IN PLACE AND DISPLAYED THE "PRIOR TO CONSTRUCTION" MESSAGE FOR SEVEN DAYS PRIOR TO THE EXPECTED START OF WORK ON CTH H, THESE MESSAGE SIGNS WILL ALSO BE USED FOR WARNING MESSAGES ON CTH H BETWEEN CTH J AND CTH EE, AND BETWEEN TIMBERLAND RD AND CTH J.

PROJECT NO: 8818-00-70

HWY: CTH H

COUNTY: BURNETT

TRAFFIC CONTROL PLAN

PLOT BY : JEFF BREU

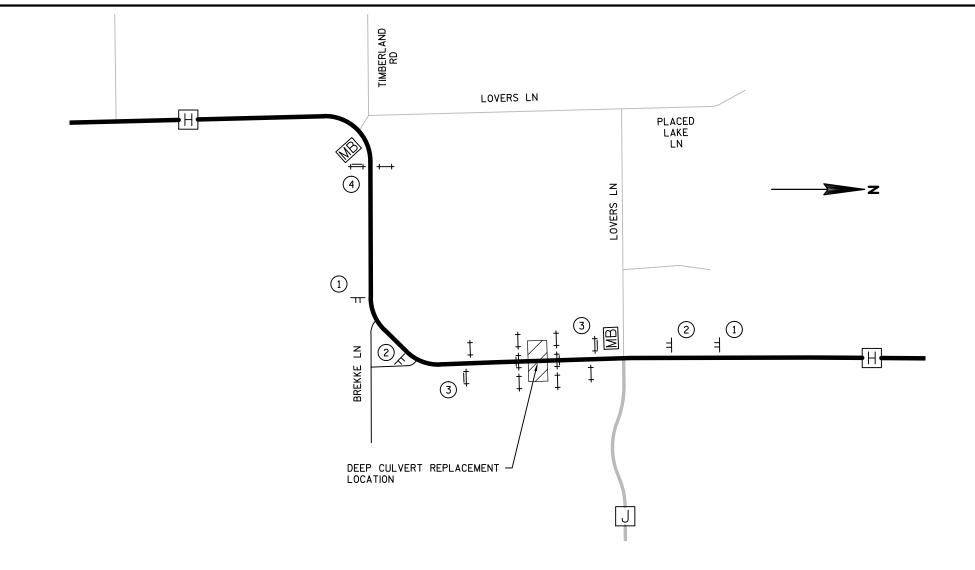
PLOT SCALE : 1 IN:1000 FT

WISDOT/CADDS SHEET 42

Ε

SHEET





PORTABLE CHANGEABLE MESSAGE SIGN CTH H CLOSURES (TIMBERLAND RD -CTH J) PHASE 1 PHASE 2 (3 SEC) (3 SEC) ROAD (DATE) CLOSED 9AM-3PM

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#### **LEGEND**

TYPE III BARRICADE TYPE III BARRICADE WITH ATTACHED SIGN SIGN ON TEMPORARY SUPPORT PORTABLE CHANGEABLE MESSAGE SIGN WORK AREA









## GENERAL NOTES FOR CHANGEABLE MESSAGE SIGNS

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PROJECT NO: 8818-00-70

HWY: CTH H

COUNTY: BURNETT

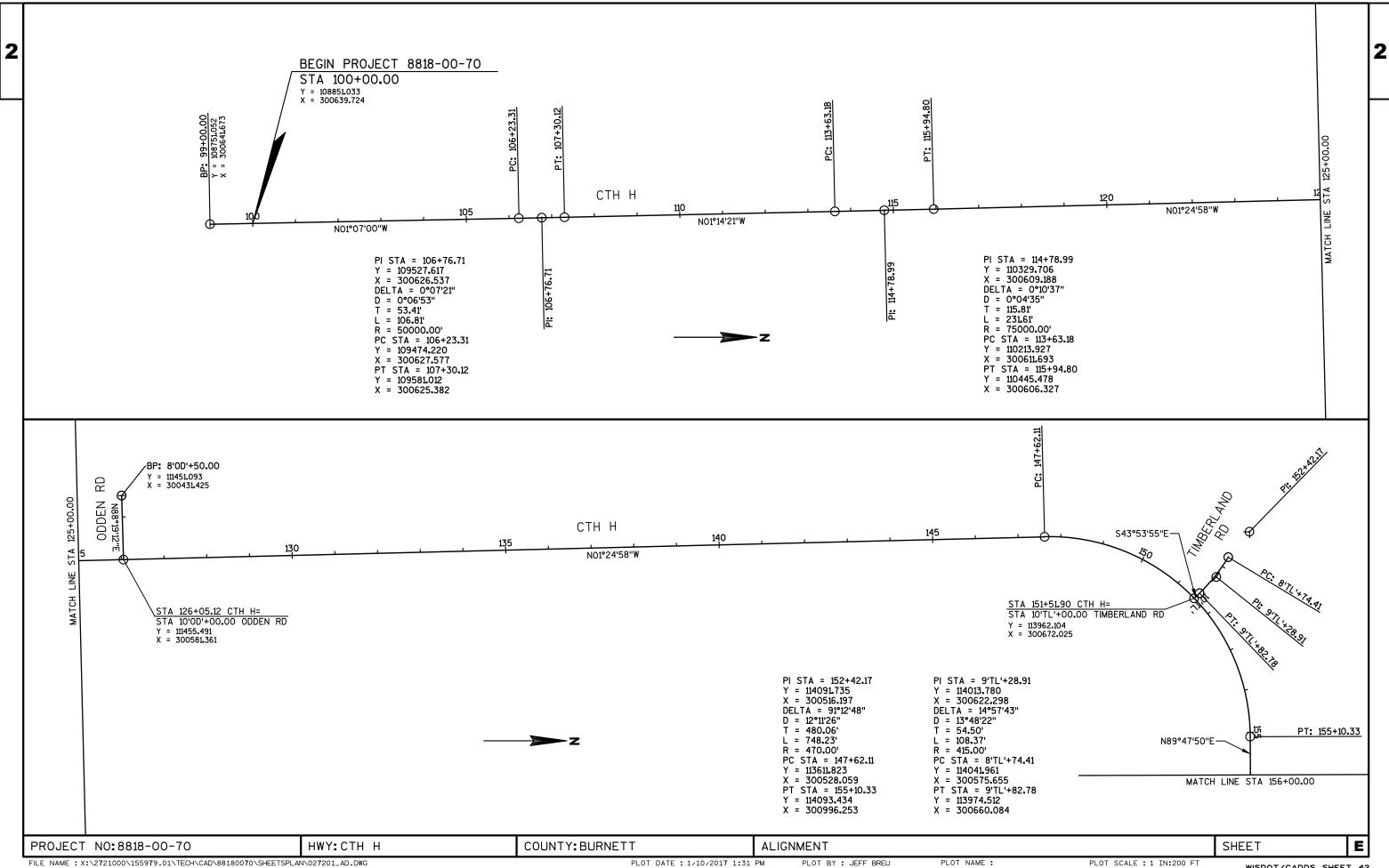
TRAFFIC CONTROL PLAN

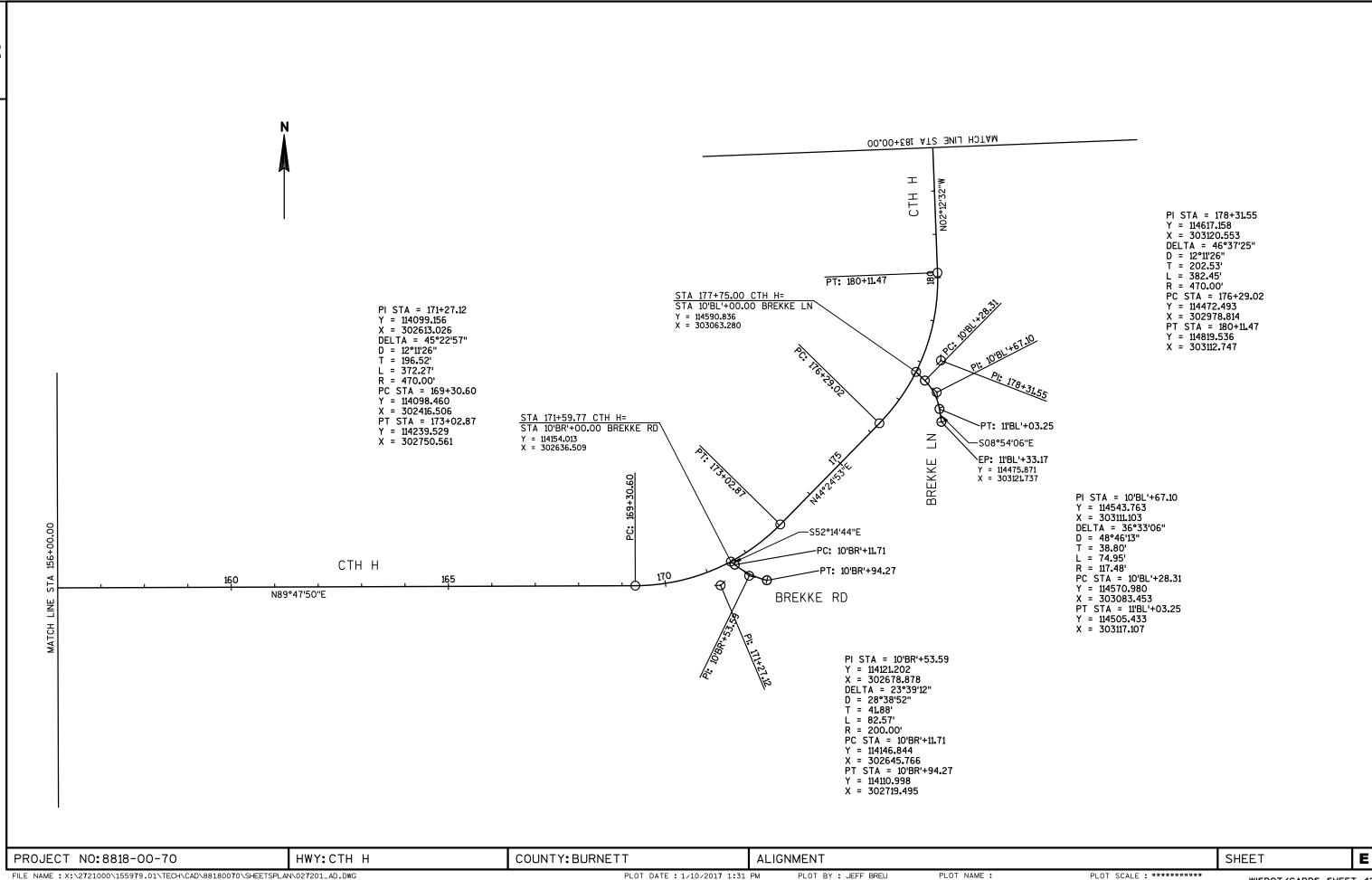
PLOT BY : JEFF BREU

PLOT SCALE : 1 IN:1000 FT

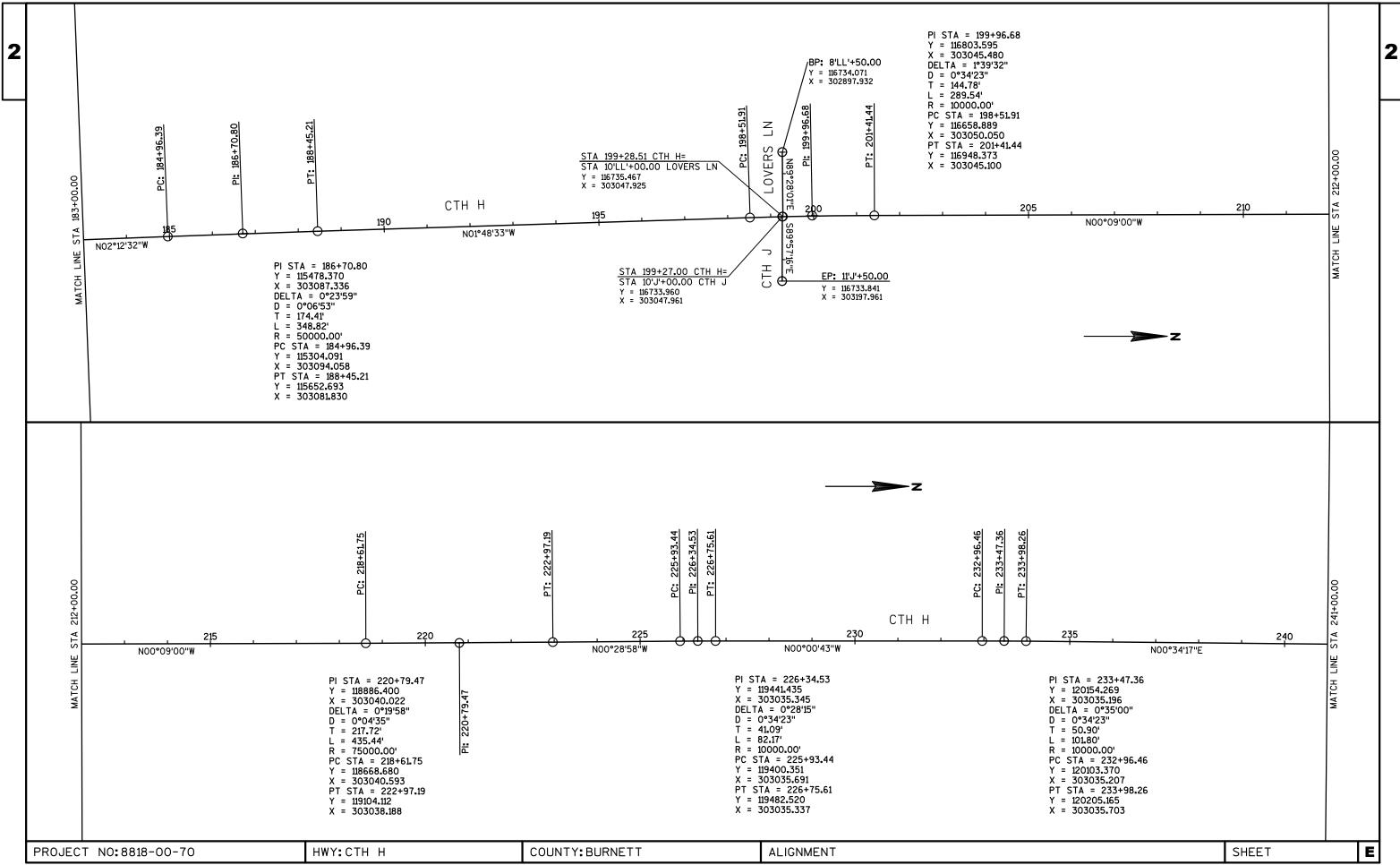
SHEET

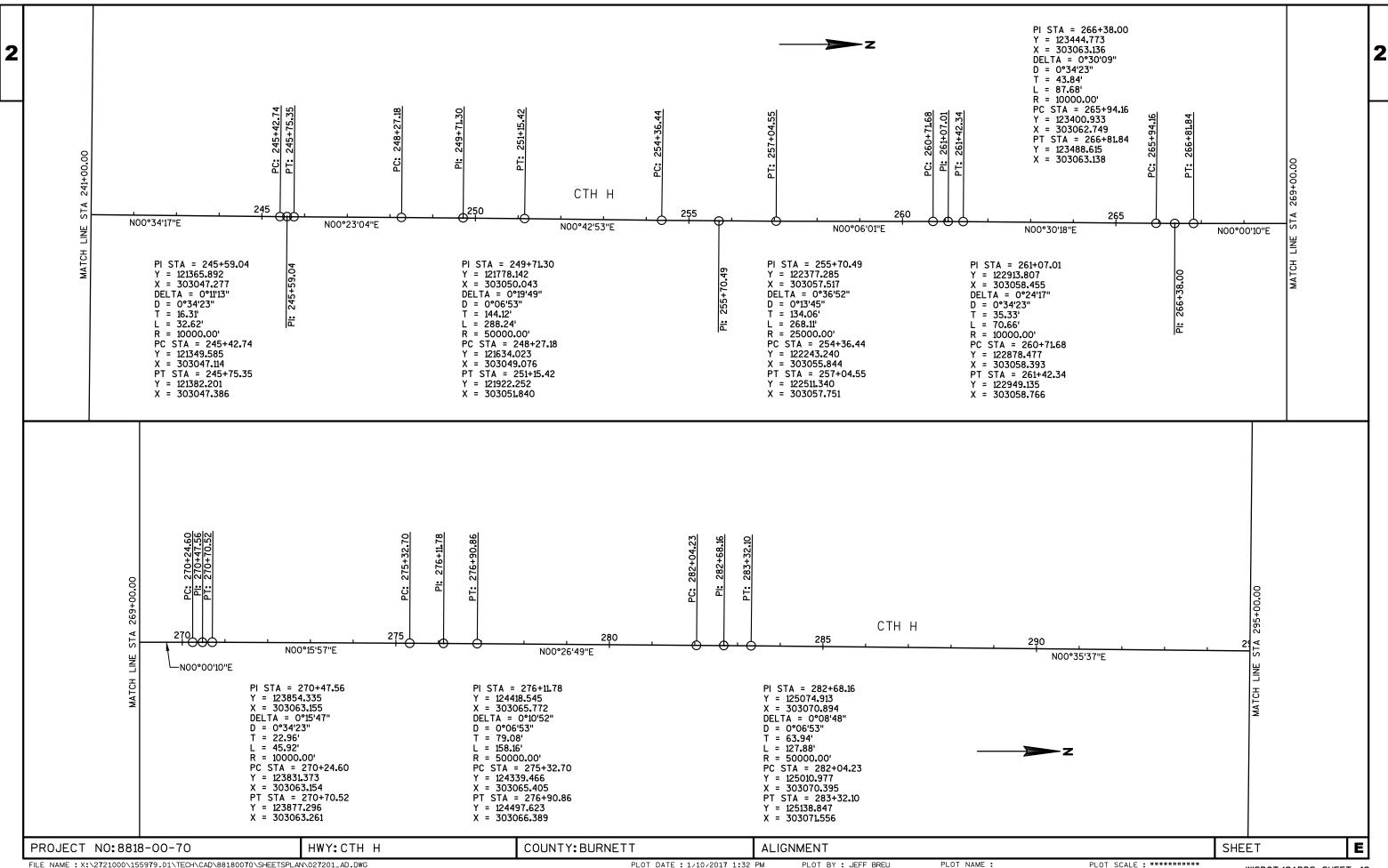
Ε

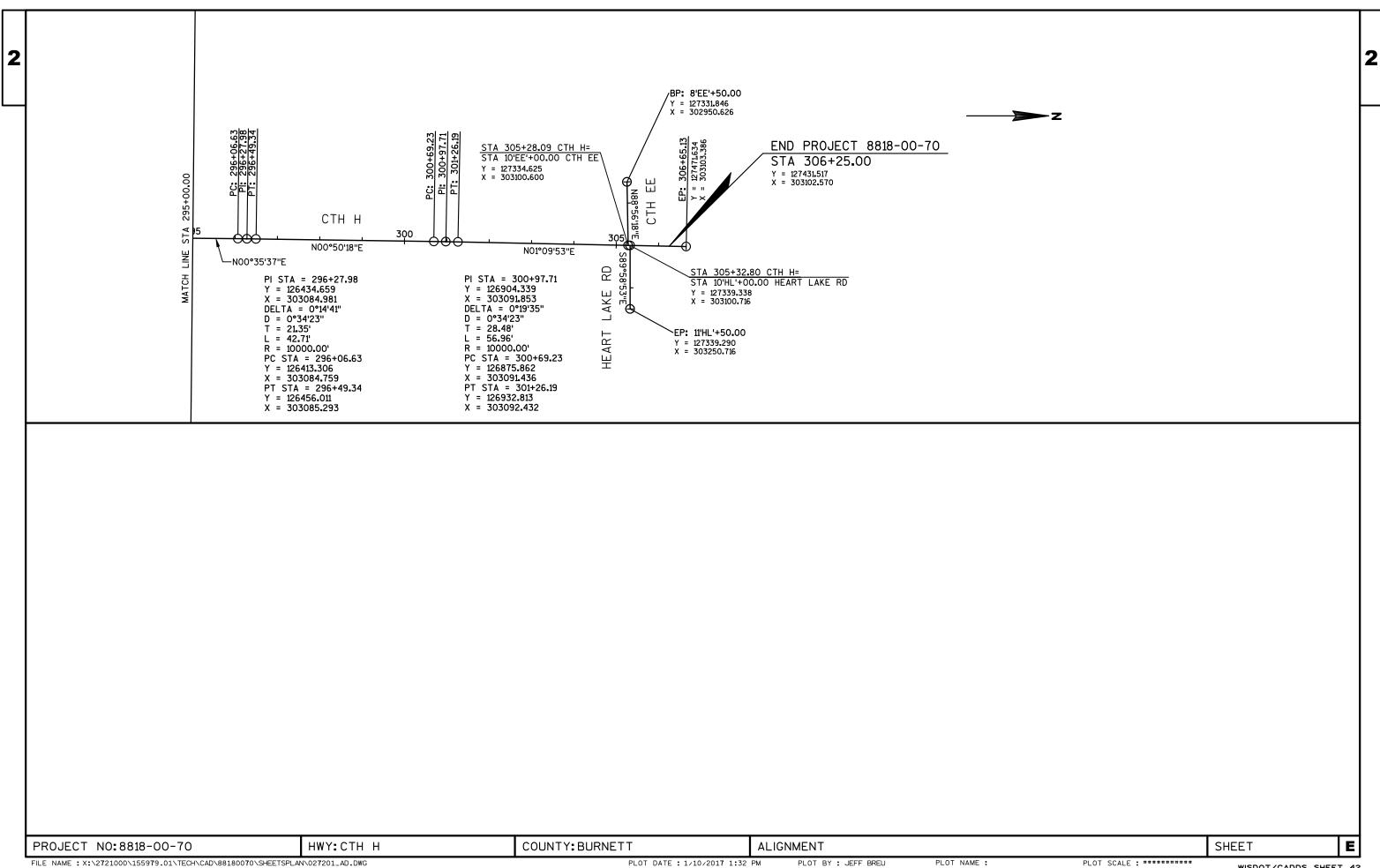


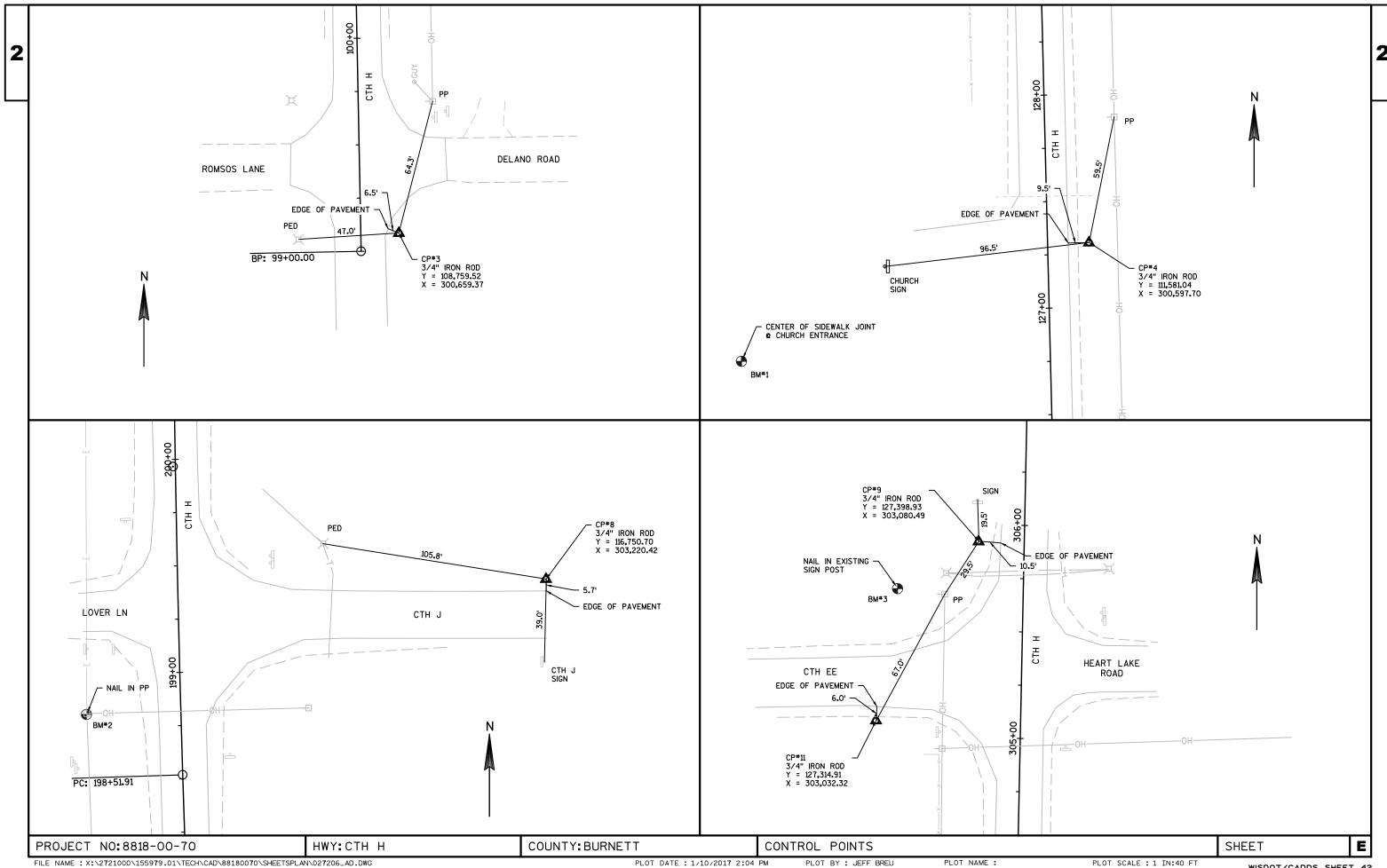


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Page	1
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					8818-00-70	
Line	Item	Item Description	Unit	Total	Qty	
0010	203.0100	Removing Small Pipe Culverts	EACH	4.000	4.000	
0010	205.0100	Excavation Common	CY	3,933.000	3,933.000	
0020	209.2100	Backfill Granular Grade 2	CY	280.000	280.000	
0040	211.0100	Prepare Foundation for Asphaltic Paving (project) 01.	LS	1.000	1.000	
0040	211.0100	8818-00-70	LO	1.000	1.000	
0050	213.0100	Finishing Roadway (project) 01. 8818-00-70	EACH	1.000	1.000	
0060	305.0110	Base Aggregate Dense 3/4-Inch	TON	5,606.000	5,606.000	
0070	305.0120	Base Aggregate Dense 1 1/4-Inch	TON	14,852.000	14,852.000	
0800	311.0110	Breaker Run	TON	2,360.000	2,360.000	
0090	325.0100	Pulverize and Relay	SY	56,661.000	56,661.000	
0100	374.1020.S	•	SY	56,661.000	56,661.000	
0110	440.4410	Incentive IRI Ride	DOL	15,680.000	15,680.000	
0120	455.0605	Tack Coat	GAL	3,980.000	3,980.000	
0130	460.2000	Incentive Density HMA Pavement	DOL	8,740.000	8,740.000	
0140	460.5223	HMA Pavement 3 LT 58-28 S	TON	7,675.000	7,675.000	
0150	460.5244	HMA Pavement 4 LT 58-34 S	TON	5,970.000	5,970.000	
0160	520.1018	Apron Endwalls for Culvert Pipe 18-Inch	EACH	1.000	1.000	
0170	520.1024	Apron Endwalls for Culvert Pipe 24-Inch	EACH	3.000	3.000	
0180	530.0118	Culvert Pipe Corrugated Polyethylene 18-Inch	LF	50.000	50.000	
0190	530.0124	Culvert Pipe Corrugated Polyethylene 24-Inch	LF	212.000	212.000	
0200	606.0200	Riprap Medium	CY	7.000	7.000	
0210	619.1000	Mobilization	EACH	1.000	1.000	
0220	624.0100	Water	MGAL	640.000	640.000	
0230	625.0500	Salvaged Topsoil	SY	8,111.000	8,111.000	
0240	628.1504	Silt Fence	LF	1,300.000	1,300.000	
0250	628.1520	Silt Fence Maintenance	LF	2,600.000	2,600.000	
0260	628.1905	Mobilizations Erosion Control	EACH	8.000	8.000	
0270	628.1910	Mobilizations Emergency Erosion Control	EACH	2.000	2.000	
0280	628.2006	Erosion Mat Urban Class I Type A	SY	8,111.000	8,111.000	
0290	628.7555	Culvert Pipe Checks	EACH	12.000	12.000	
0300		Fertilizer Type B	CWT	5.100	5.100	
0300	630.0120	Seeding Mixture No. 20	LB	220.000	220.000	
		-				
0320	630.0200	Seeding Temporary	LB	220.000	220.000	
0330	633.5200	Markers Culvert End	EACH	26.000	26.000	
0340	634.0616	Posts Wood 4x6-Inch X 16-FT	EACH	45.000	45.000	
0350	637.2210	Signs Type II Reflective H	SF	144.940	144.940	
0360	637.2230	Signs Type II Reflective F	SF	130.500	130.500	
0370	638.2602	Removing Signs Type II	EACH	30.000	30.000	
0380	638.3000	Removing Small Sign Supports	EACH	30.000	30.000	
0390	642.5001	Field Office Type B	EACH	1.000	1.000	

# Estimate Of Quantities Page 2

					8818-00-70
Line	Item	Item Description	Unit	Total	Qty
0400	643.0100	Traffic Control (project) 01. 8818-00-70	EACH	1.000	1.000
0410	643.0300	Traffic Control Drums	DAY	1,886.000	1,886.000
0420	643.0420	Traffic Control Barricades Type III	DAY	408.000	408.000
0430	643.0705	Traffic Control Warning Lights Type A	DAY	816.000	816.000
0440	643.0715	Traffic Control Warning Lights Type C	DAY	1,886.000	1,886.000
0450	643.0900	Traffic Control Signs	DAY	1,698.000	1,698.000
0460	643.1050	Traffic Control Signs PCMS	DAY	61.000	61.000
0470	645.0130	Geotextile Type R	SY	14.000	14.000
0480	646.0106	Pavement Marking Epoxy 4-Inch	LF	73,788.000	73,788.000
0490	648.0100	Locating No-Passing Zones	MI	3.906	3.906
0500	649.0400	Temporary Pavement Marking Removable Tape 4-Inch	LF	1,650.000	1,650.000
0510	650.6000	Construction Staking Pipe Culverts	EACH	4.000	4.000
0520	650.8000	Construction Staking Resurfacing Reference	LF	20,625.000	20,625.000
0530	650.9910	Construction Staking Supplemental Control (project) 01. 8818-00-70	LS	1.000	1.000
0540	690.0150	Sawing Asphalt	LF	311.000	311.000
0550	ASP.1T0A	On-the-Job Training Apprentice at \$5.00/HR	HRS	1,200.000	1,200.000
0560	ASP.1T0G	On-the-Job Training Graduate at \$5.00/HR	HRS	300.000	300.000

DIVISION	FROM/TO STATION	EXC	05.0100 AVATION DMMON (1)	AVAILABLE MATERIAL (3)	UNEXPANDED FILL	EXPANDED FILL (4)	MASS ORDINATE +/- (5)	WASTE
		CUT	EBS EXCAVATION (2)			Factor 1.25		
СТНН	101+00 - 103+60	245	0	245		0	245	
	115+50 - 116+25	71	0	71		0	71	
	189+80 - 190+80	94	0	94		0	94	
	202+80 - 206+50	348	0	348		0	348	
	214+90 - 222+80	744	0	744		0	744	
	233+80 - 234+80	94	0	94		0	94	
	241+35 - 242+35	94	0	94		0	94	
	248+50 - 250+75	212	0	212		0	212	
	253+10 - 256+30	311	0	311		0	311	
	282+95 - 284+45	141	0	141		0	141	
	298+15 - 301+00	268	0	268		0	268	
	UNDISTRIBUTED	0	1311	0		0	0	
GRAND TOTAL		2,622	1,311	2,622	0	0	2,622	3,933

<sup>1)</sup> Common Excavation is the sum of the Cut and EBS Excavation columns. Item number 205.0100  $\,$ 

PROJECT NO: 8818-00-70 HWY: CTH H COUNTY: BURNETT MISCELLANEOUS QUANTITIES SHEET NO: E

FILE NE : PLOT DATE : \_\_\_\_\_ PLOT BY : \_\_\_\_\_ PLOT NAME : \_\_\_\_ ORG DATE : ORIGINATOR : PLOT SCALE :

<sup>2)</sup> EBS Excavation to be backfilled with Breaker Run.

<sup>3)</sup> Available Material = Cut

<sup>4)</sup> Expanded Fill. Factor = 1.25

<sup>5)</sup> The Mass Ordinate + or - Qty calculated for the Division. Plus quantity indicates an excess of material within the Division. Minus indicates a shortage of material within the Division.

REMOVING SMALL PIPE CULVERTS							
		203.0100					
REMOVING							
SMALL							
		PIPECULVERTS					
STATION	LOCATION	EACH	REMARKS				
190+29	CTHH	1	18-INCH CMP				
221+75	CTH H	1	15-INCH CMP				
234+31	CTHH	1	15-INCH CMP				
241+85	CTH H	1	15-INCH CMP				
TO	TAL	4					

PREPARE FOUNDATION FOR ASPHALTIC PAVING					
	211.0100 PREPARE FOUNDATION FOR ASPHALTIC PAVING				
STATION - STATION	(8818-00-70) LS				
8818-00-70	1				
TOTAL	1				

FINISHING ROADWAY						
	213.0100					
	FINISHING					
	ROADWAY					
	(8818-00-70)					
STATION - STATION	EACH					
8818-00-70	1					
TOTAL	1					

BREAKER RUN						
	311.0110	624.0100				
	BREAKER					
	RUN	WATER*				
STATION - STATION	TON	MGAL				
UNDISTRIBUTED **	2,360	24				
TOTAL	2,360	24				

<sup>\*</sup> ITEM LOCATED ELSEWHERE IN THE PLANS \*\* EBS LOCATIONS

PULVERIZE AND RELAY							
		325.0100	374.1020.S QMP	624.0100			
			PULVERIZE				
		PULVERIZE	ANDRELAY				
		<b>AND RELAY</b>	COMPACTION	WATER*			
STATION - STATION	LOCATION	SY	SY	MGAL			
СТНН	•						
100+00 - 306+25	LT & RT	55,000	55,000	275			
SIDEROADS							
ODDEN RD & PARKING LOT	LT	502	502	3			
TIMBERLAND RD	LT	261	261	1			
BREKKELN	RT	238	238	1			
LOVERS LN	LT	82	82	0			
CTHJ	RT	249	249	1			
CTH EE	LT	232	232	1			
HEART LAKE RD	RT	96	96	0			
TOTAL		56,661	56,661	283			

<sup>\*</sup> ITEM LOCATED ELSEWHERE IN THE PLANS

	TOTAL		5,606	14,852	333
DUST CONTROL					128
HEART LAKE RO	AD	RT	8	12	0
CTH EE		LT	14	28	0
CTHJ		RT	15	31	0
LOVERS LN		LT	8	11	0
BREKKE RD		RT	19	85	1
BREKKELN		RT	35	33	0
TIMBERLAND RD	)	LT	14	38	1
SIDE ROADS ODDEN RD & PAI	RKING LOT	LT	11	64	1
TEMPORARY CULV	/ERT BACKFILL	LT & RT	299		3
DRIVEWAYS		LT & RT	369		4
100+00 -	306+25	LT & RT	4,813	14,549	194
СТНН					
STATION - S	STATION	LOCATION	TON	TON	MGAL
			3/4-INCH	1 1/4 - INCH	WATER*
			DENSE	DENSE	
			AGGREGATE	AGGREGATE	
			BASE	BASE	021.0100
			305.0110	305.0120	624.0100

<sup>\*</sup> ITEM LOCATED ELSEWHERE IN THE PLANS

ASPHAL	TIC PA	VEMENT	ITEM
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		455.0605 TACK COAT*	460.5223 HMA PAVEMENT 3 LT 58-28 S	460.5244 HMA PAVEMENT 4 LT 58-34 S
STATION - STATION	SY	GAL	TON	TON
СТНН	-		-	-
100+00 - 306+25	55,000	3,850	7,425	5,775
SIDEROADS				
ODDEN RD & PARKING LOT	483	34	65	51
TIMBERLAND RD	285	20	39	30
BREKKE RD	218	15	29	23
BREKKELN	247	17	33	26
LOVERS LN	81	6	11	9
CTHJ	235	16	32	25
CTH EE	213	15	29	22
HEART LAKE ROAD	93	6	13	10
TOTAL		3,980	7,675	5,970

<sup>\*</sup>TACK COAT - ESTIMATED AT 0.07 GAL/SY

**COUNTY: BURNETT** SHEET NO: Ε PROJECT NO: 8818-00-70 HWY: CTH H **MISCELLANEOUS QUANTITIES** 

PLOT NAME : \_ ORIGINATOR: PLOT SCALE: FILE NE: PLOT DATE : \_ PLOT BY : \_ ORG DATE:

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			DR	AINAGE ITEMS			
		530.0118	530.0124	520.1018	520.1024	209.2100	633.5200
STATION	OFFSET	CULVERT PIPE CORRUGATED POLYETHYLENE 18- INCH LF	CULVERT PIPE CORRUGATED POLYETHYLENE 24-INCH LF	APRON ENDWALLS FOR CULVERT PIPE 18- INCH EACH	APRON ENDWALLS FOR CULVERT PIPE 24- INCH EACH	BACKFILL GRANULAR GRADE2 CY	MARKERS CULVERT END EACH
167+92	RL						2
182+44	RL						2
190+29	RL		50		1	25	2
211+52	RL						2
221+74	RL	50		1		185	2
234+31	RL		84		1	35	2
241+85	RL		78		1	35	2
251+63	RL						2
260+63	RL						2
276+44	RL						2
289+75	RL						2
298+26	RL						2
301+78	RL						2
	TOTAL	50	2 12	1	3	280	26

MOBILIZA	MOBILIZATION					
	619.1000					
	MOBILIZATION					
STATION - STATION	EACH					
8818-00-70	1					
TOTAL	1					

## **EROSION CONTROL MOBILIZATION**

	628.1905	628.1910
	MOBILIZATIONS	MOBILIZATIONS
	EROSION	EMERGENCY EROSION
	CONTROL	CONTROL
STATION - STATION	EA	EA
8818-00-70	8	2
TOTAL	8	2

### FINISHING ITEMS

				625.0500	628.2006 EROSION MAT	629.0210	630.0120 SEEDING	630.0200
				SALVAGED TOPSOIL	URBAN CLASS I TYPE A	FERTILIZER TYPEB	MIXTURE NO. 20	SEEDING TEMPORARY
STATI	ON - S1	TATION	OFFSET	SY	SY	CWT	LB	LB
189+80	-	190+80	LT & RT	289	289	0.2	7.8	7.8
221+25	-	222+25	LT & RT	289	289	0.2	8.0	8.0
233+80	-	234+80	LT & RT	289	289	0.2	7.8	7.8
241+35	-	242+35	LT & RT	289	289	0.2	8.0	8.0
WA	STEAF	REA		6667	6667	4.2	180.0	180.0
UND	ISTRIBI	UTED		289	289	0.2	7.9	7.9
		TOTAL		8,111	8,111	5.1	220	220

# EROSION CONTROL AT DRAINAGE STRUCTURES

STATION	OFFSET	606.0200 RIPRAP MEDIUM CY	628.1504 SILT FENCE LF	628.1520 SILT FENCE MAINTENANCE LF	628.7555 CULVERT PIPE CHECKS EACH	645.0130 GEOTEXTILE TYPER SY	REMARKS
190+29	LT		100	200	3		
190+29	RT	2	100	200		4	OUTFALL END ONLY
221+74	LT		100	200	3		
221+74	RT	2	100	200		4	OUTFALL END ONLY
234+31	LT		100	200	3		
234+31	RT	2	100	200		4	OUTFALL END ONLY
241+85	LT		100	200	3		
241+85	RT	2	100	200		4	OUTFALL END ONLY
WASTE AREA			500	1000			
TOTAL		7	1,300	2,600	12	14	

FIELD OFFICE TYPE B					
	642.5001				
STATION - STATION	FIELD OFFICE TYPE B EACH				
8818-00-70	1				
TOTAL	1				

PROJECT NO: 8818-00-70

HWY: CTH H

COUNTY: BURNETT

MISCELLANEOUS QUANTITIES

ORG DATE:

SHEET NO:

FILE NE :

PLOT DATE : \_

PLOT BY : \_\_\_\_\_

PLOT NAME : \_

ORIGINATOR:

PLOT SCALE:

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					638.2602 REMOVING SIGNS	638.3000 REMOVING SMALL SIGN SUPPORTS	634.0616 POSTS WOOD 4X6-INCH X 16-FT	637.2210 SIGNS TYPE II REFLECTIVE H	637.2230 SIGNS TYPE II REFLECTIVE F	
SIGN	OTATION	OFFOFT	SIGN	0175	TYPEII	<b>5</b> 4	<b>F</b> A	05	05	COMMENT
NUMBER 100 & 100 A	STATION 125+80	OFFSET LT	CODE R1- 1	SIZE 30"X30"	<u>EA</u> 1	<u>EA</u> 1	<u>EA</u> 1	SF 5.18	SF 	COMMENT
101 & 101A	130+00	RT	W11-6	30"X30"	1	1	1	J. 10 	6.25	
102A	142+74	RT	-	-	1	1				
102	144+37	RT	W1-2R	30"X30"			1		6.25	
103			W13-1	18"X18"					2.25	SAME POST AS 102
104	146+27	LT	W11-6	30"X30"			1		6.25	
104A	147+45	LT			1	1				
105	148+27	LT	W1-8	18"X24"			1		3.00	
106	149+47	LT	W1-6	48"X24"			1		8.00	
107 108A	149+27 149+41	LT LT	W1- 8	18"X24"	 1	 1	<u>1</u>		3.00	
109A	149+41	LT			1	1				
110A	150+09	LT			1	1				
111	150+67	LT	W1-8	18"X24"	· 		1		3.00	
112	150+67	LT	W1-8	18"X24"			1		3.00	
113 & 113 A	151+32	LT	R1- 1	30"X30"	1	1	1	5.18		
114	152+34	LT	W1-8	18"X24"			1		3.00	
115	152+34	LT	W1-8	18"X24"			1		3.00	
116 A	152+73	LT			1	1				
117A	153+07	LT			1	1				
118 A	153+41	LT			1	1				
119	153+54	LT . –	W1-8	18"X24"			1		3.00	
120	153+54	LT	W1- 6	48"X24"			1		8.00	
121	154+74	LT	W1-8	18"X24"			1		3.00	
122 & 122A	158+35	LT	W1- 2L	30"X30"	1	1	1		6.25	CAME DOCT AC 100
123 124 & 124A	 166+05	r- RT	W13- 1 W1- 2L	18"X18" 30"X30"	 1	 1	 1		2.25 6.25	SAME POST AS 122
125			W13-1	18"X18"					2.25	SAME POST AS 124
126	169+98	RT	W1-8	18"X24"			1		3.00	0/(VIET 001/10 IE4
127	170+86	RT	W1- 6	48"X24"			1		8.00	
128	171+18	RT	W1- 6	48"X24"			1		8.00	
129 & 129A	172+04	RT	R1- 1	30"X30"	1	1	1	5.18		
130	172+07	RT	W1-8	18"X24"			1		3.00	
13 1A	174+14	RT			1	1				
132	177+06	RT	W1-8	18"X24"			1		3.00	
133 & 133A	177+80	RT	R1- 1	30"X30"	1	1	1	5.18		
134	178+21	RT	W1-6	48"X24"			1		8.00	
135	178+26	RT	W1-6	48"X24"			1		8.00	
136	179+41	RT	W1-8	18"X24"			ı		3.00	
137A 137	182+57 183+67	LT LT	W1- 2R	30"X30"	<u> </u> 	I 	1		6.25	
138			W13-1	18"X18"					2.25	SAME POST AS 137
139A	183+89	LT	VV 13- 1		1	1			2.20	GAME OUT AU IUT
140 & 140A	190+00	RT	J1- 1	24"X39"	1	1	1	6.50		
141 & 141A	198+60	RT	J12-1	24"X45"	1	1	1	7.50		
142	198+60	LT	M1- 5A	24"X24"			1	4.00		
143 & 143A	199+09	LT	R1- 1	30"X30"	1	1	1	5.18		
144 & 144A	199+48	RT	R1- 1	30"X30"	1	1	1	5.18		
145 & 145A	199+50	RT	J2-2	48"X57"	1	1	1	19.00		
146	199+82	RT	M1- 5A	24"X24"			1	4.00		
147 & 147A	199+82	LT	J12-1	24"X45"	1	1	1	7.50		
148 & 148A	206+10	LT	J1- 1	24"X39"	1	1	1	6.50		
149 & 149A	300+54	RT	J1- 1	24"X39"	1	1	1	6.50		
150 & 150A 151	304+96	RT LT	J12-1	24"X45"	1	1 	 	7.50 4.00		
151 152	304+96 305+03	LT LT	M1- 5A J2- 2	24"X24" 48"X57"			I	4.00		
153 & 153A	305+05 305+05	LT	72-2 R1-1	30"X30"	1	1	1	5.18		
154 & 154A	305+54	RT	R1- 1	30"X30"	1	1	1	5.18		
155	305+88	RT	M1- 5A	24"X24"			1	4.00		
156 & 156A	306+10	LT	J12-1	24"X45"	1	1	1	7.50		
	тот	AL			30	30	45	144.94	130.50	

SIGNING SUMMARY

FILE NE : PLOT DATE : \_\_\_\_\_ PLOT BY : \_\_\_\_\_ PLOT NAME : \_\_\_\_ ORG DATE : ORIGINATOR : PLOT SCALE :

MISCELLANEOUS QUANTITIES

SHEET NO:

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COUNTY: BURNETT

HWY: CTH H

PROJECT NO: 8818-00-70

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			TRAFFIC CONTO	L ITEMS			
	643.0100	643.0300	643.0420	643.0705	643.0715	643.0900	643.1050
	TRAFFIC CONTROL (8818-00-70)	TRAFFIC CONTROL DRUMS	TRAFFIC CONTROL BARRICADES TYPE III	TRAFFIC CONTROL WARNING LIGHTS TYPE A	TRAFFIC CONTROL WARNING LIGHTS TYPE C	TRAFFIC CONTROL SIGNS	TRAFFIC CONTROL SIGNS PCMS
LOCATION	EACH	DAY	DAY	DAY	DAY	DAY	DAY
PROJECT	1	1,886	328	656	1,886	1,640	14
CTH J - CTH EE TIMBERLAND RD - CTH J			56 24	112 48		40 18	22 18
UNDISTRIBUTED							7
TOTAL	1	1,886	408	816	1,886	1,698	61

### PAVEMENT MARKING SUMMARY

_		TOTAL		73,	788	1,650
SUBTOTAL				32,538	41,250	
100+00	-	306+25	CL	32,538		1650
100+00	-	306+25	LT & RT		41,250	
STATION - STATION		OFFSET	LF	LF	LF	
				YELLOW	WHITE	YELLOW
				EPOXY 4- INCH	EPOXY 4-INCH	4-INCH
				MARKING	MARKING	REMOVABLE TAPE**
				PAVEMENT	PAVEMENT	MARKING
						PAVEMENT
						TEMPORARY
				646.	0106	649.0400

\*\*\*CENTERLINE SKIPS BASED ON 4' SKIPS

CONSTRU	CTION STAKING SUMMARY
	·

		650.6000	650.8000 CONSTRUCTION	650.9910 CONSTRUCTION
		CONSTRUCTION	STAKING	STAKING
		STAKING	RESURFACING	SUPPLEMENTAL
		PIPE CULVERTS	REFERENCE	CONTROL (8818-00-70
STATION - STATION		EACH	LF	LS
100+00	- 306+25		20,625	1
190+29		1		
221+74		1		
234+31		1		
241+85		1		
T	OTAL	4	20,625	1

# SAWING ASPHALT

STATION - STATION

8818-00-70

TOTAL

LOCATING NO-PASSING ZONES

648.0100 LOCATING NO-PASSING ZONES

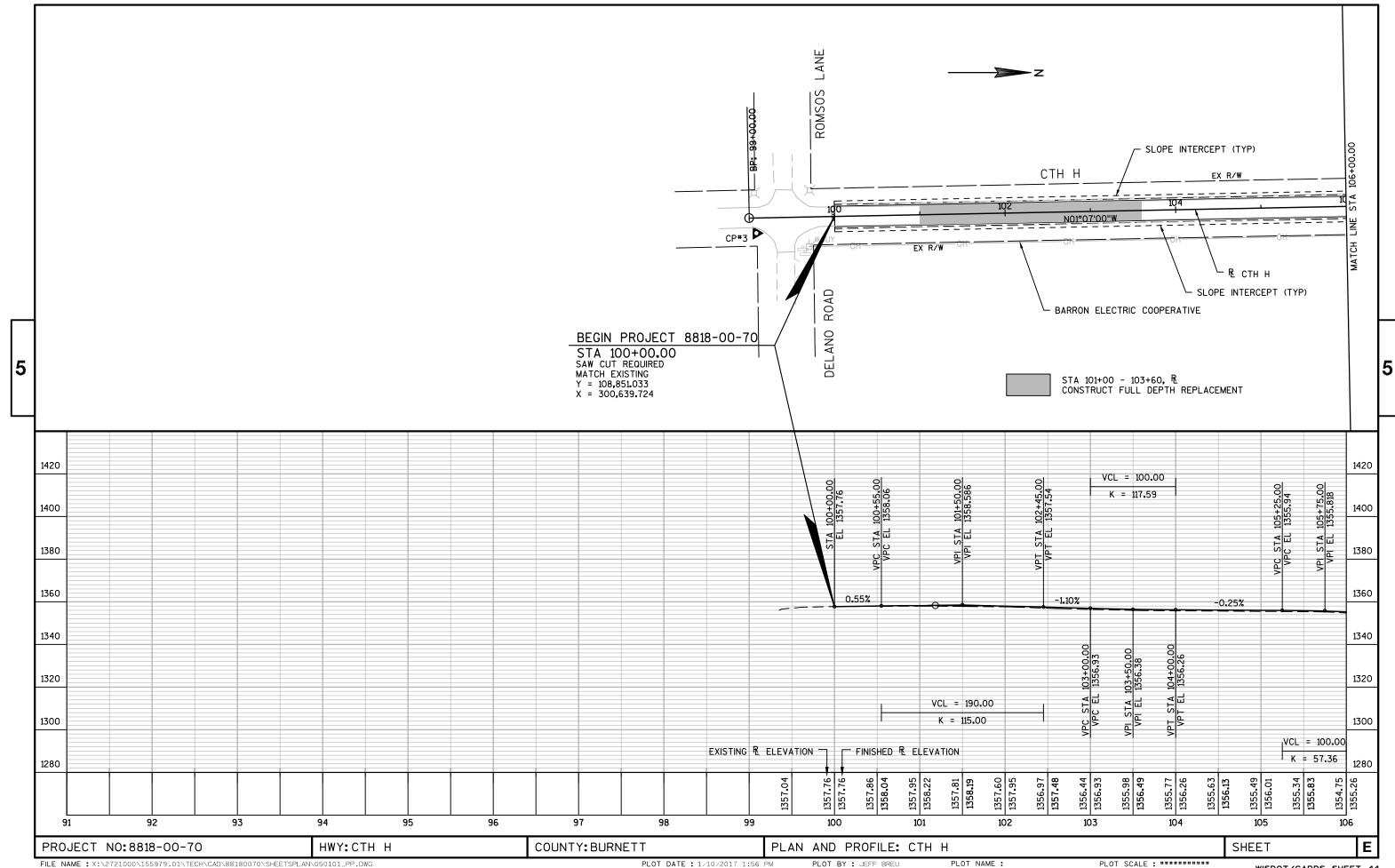
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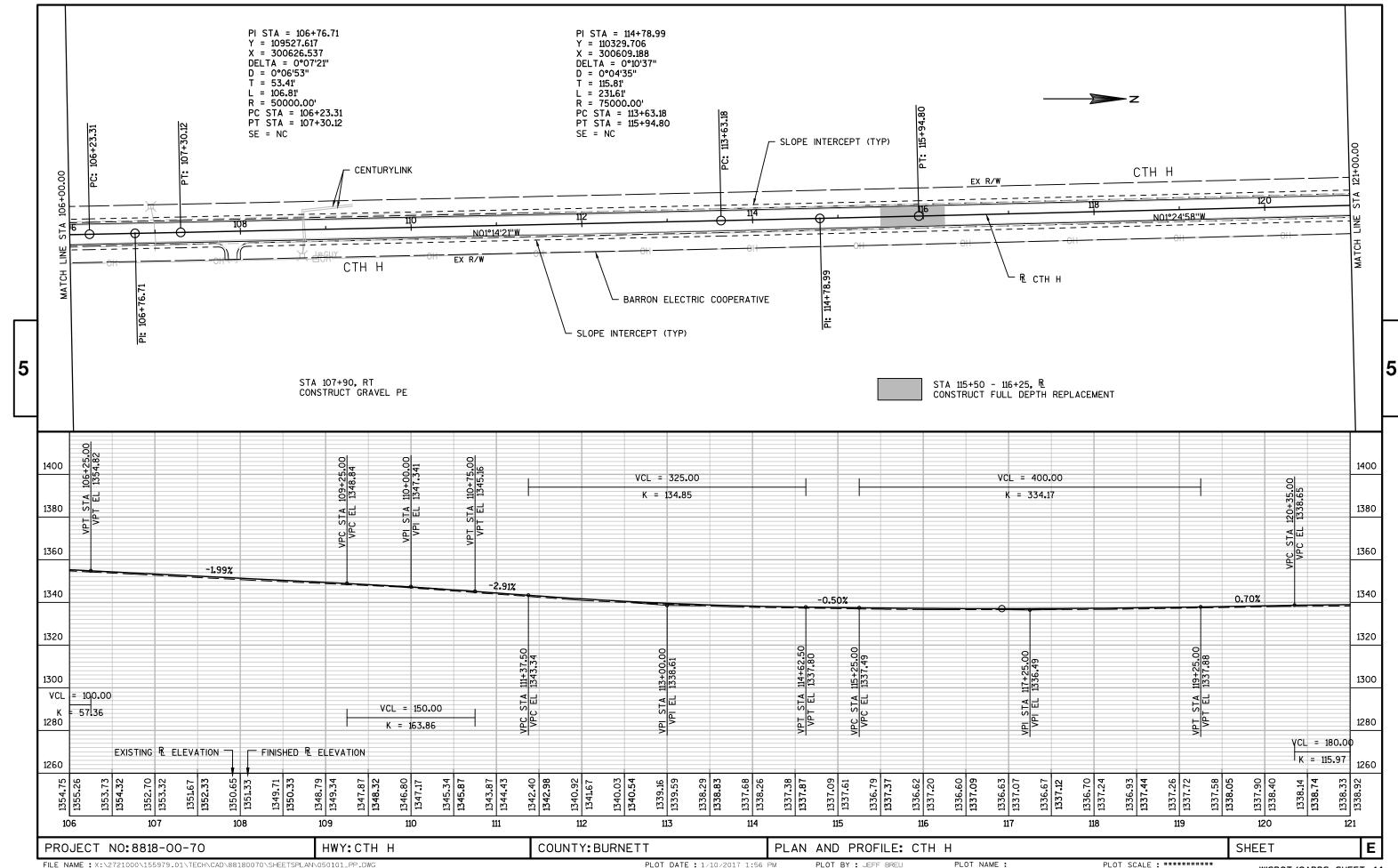
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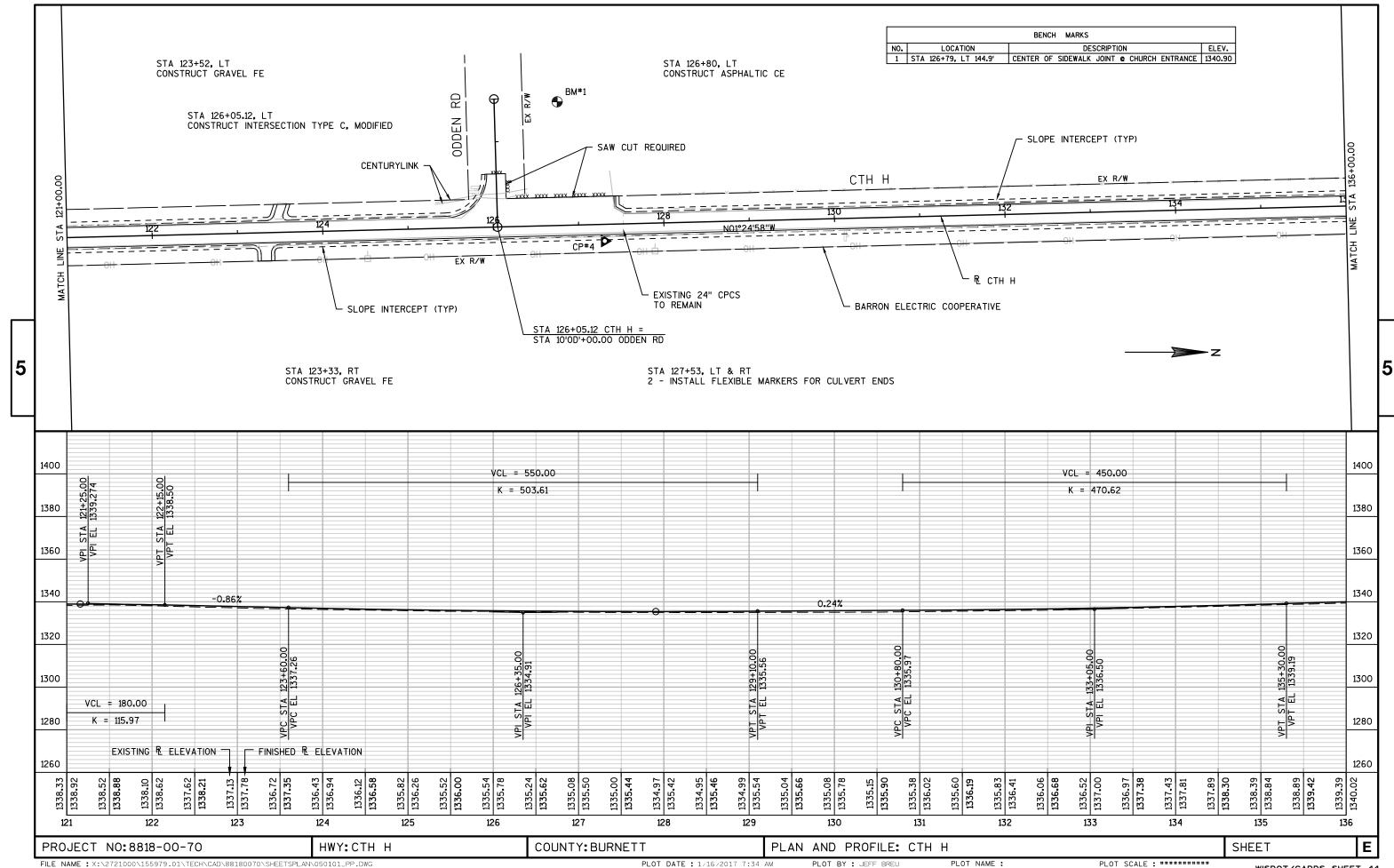
		690.0150
		SAWING
		ASPHALT
STATION	LOCATION	LF
CTHH		
100+00	CL	22
306+25	CL	22
SIDEROADS		
ODDEN RD & PARKING LOT	LT	177
TIMBERLAND RD	LT	22
CTHJ	RT	22
CTH EE	LT	24
HEART LAKE RD	RT	22
TOTAL		3 11

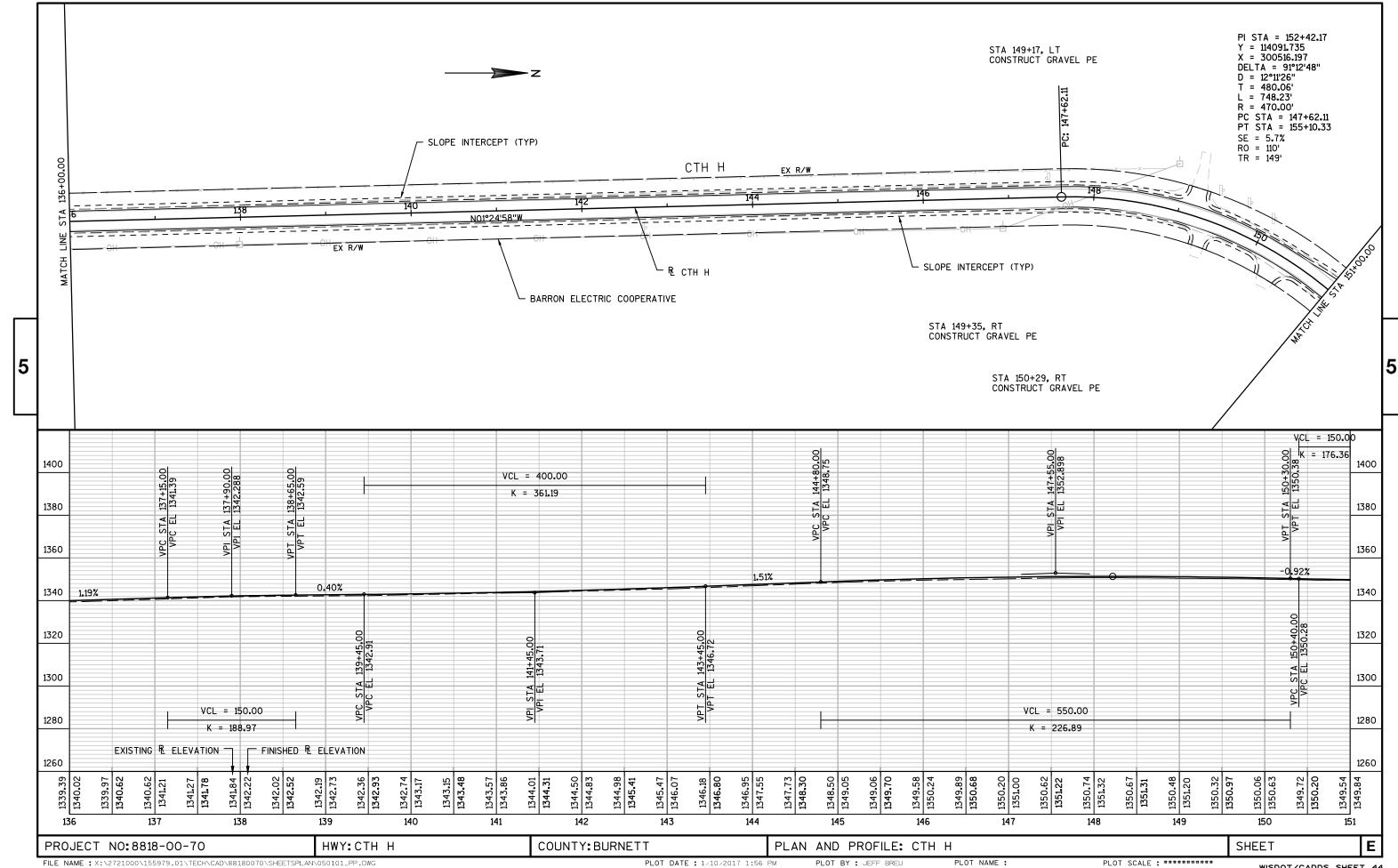
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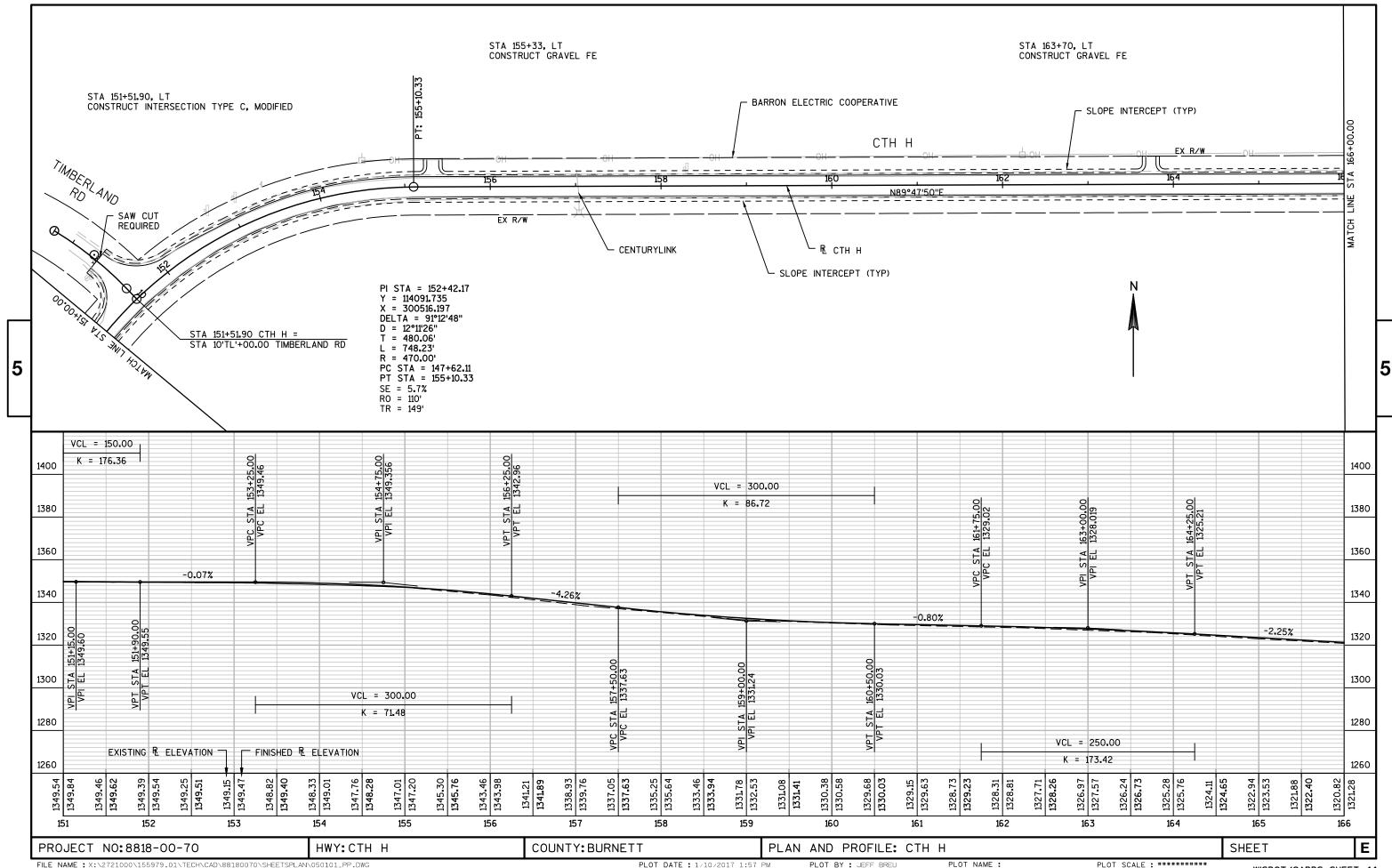
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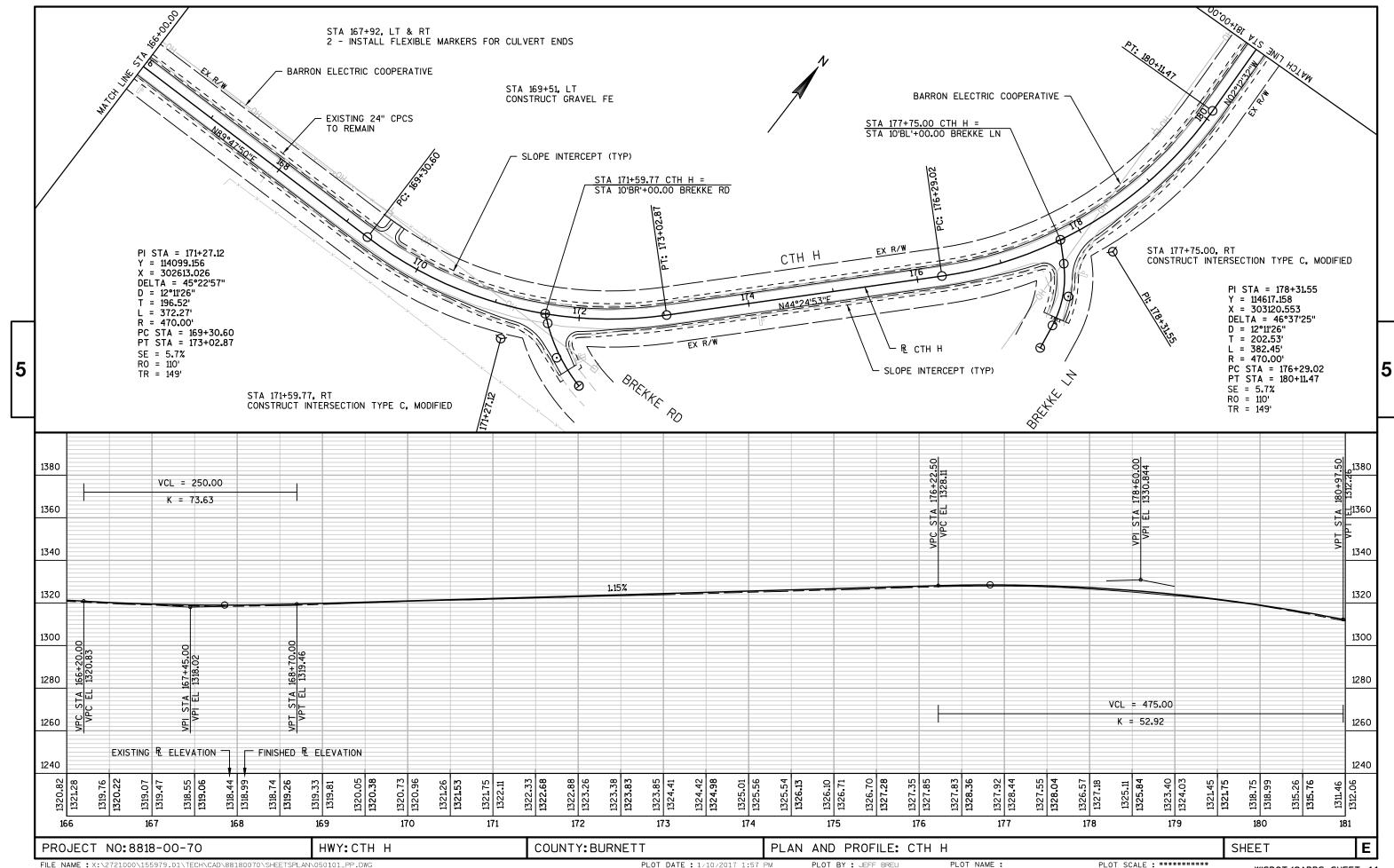


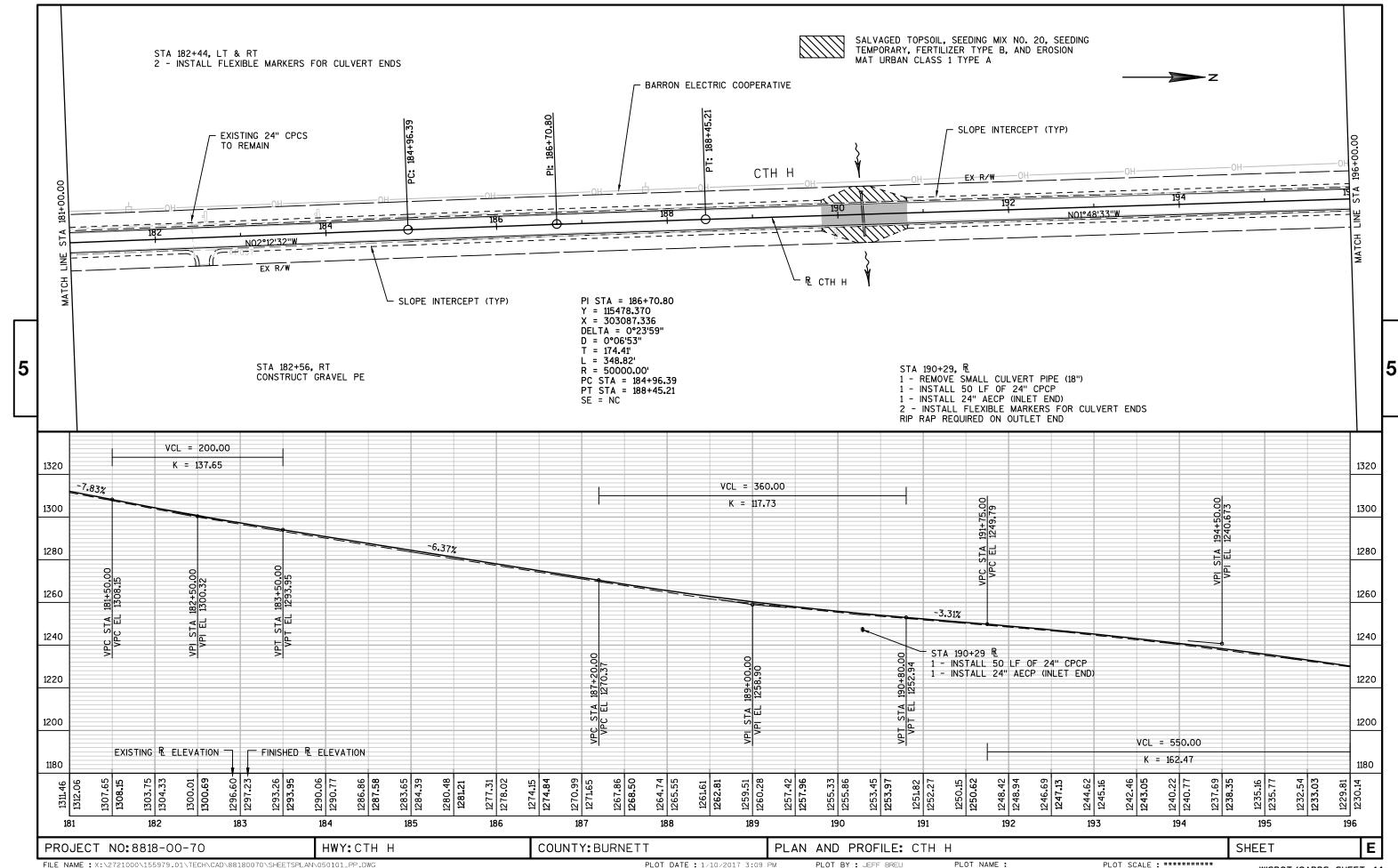


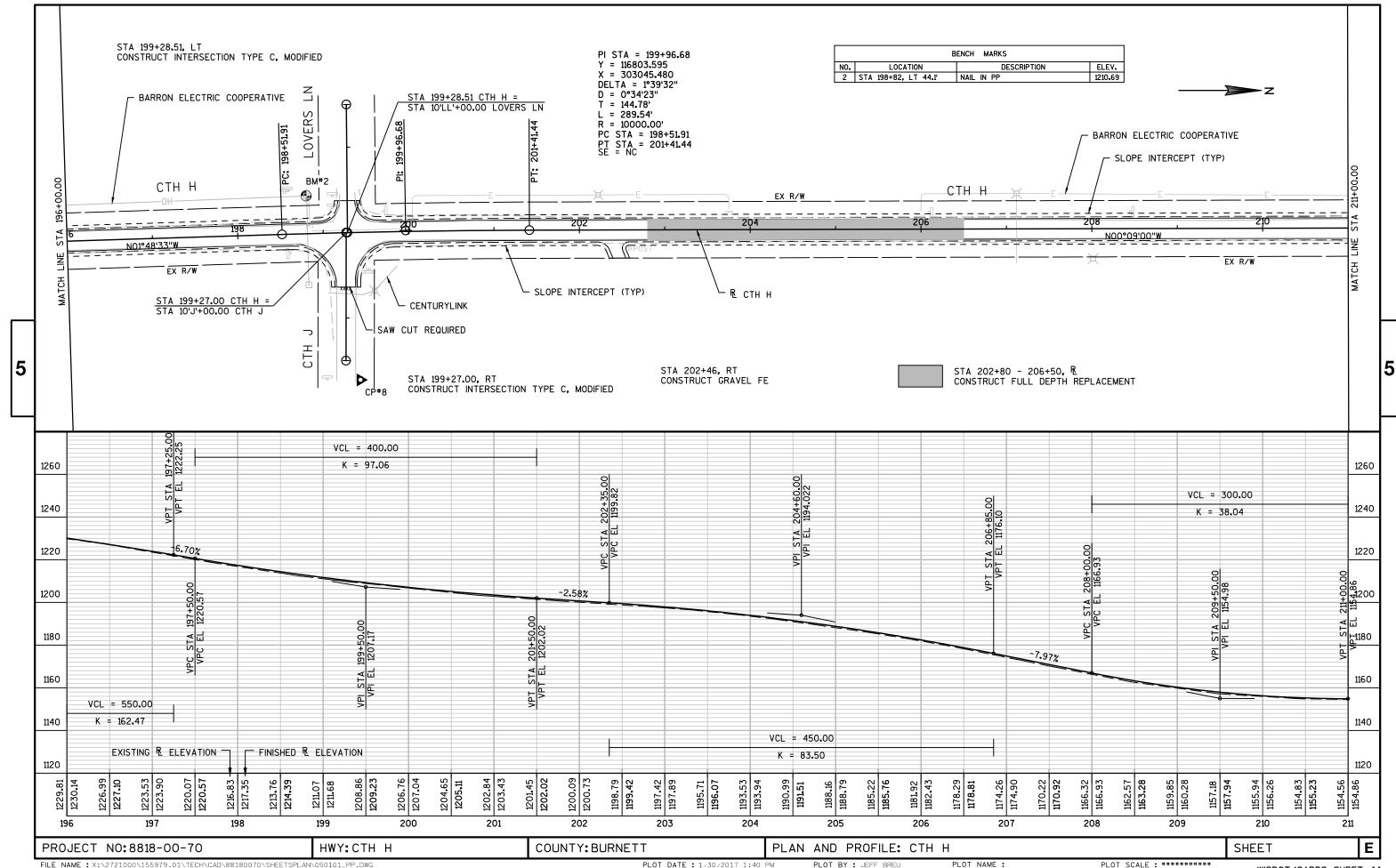


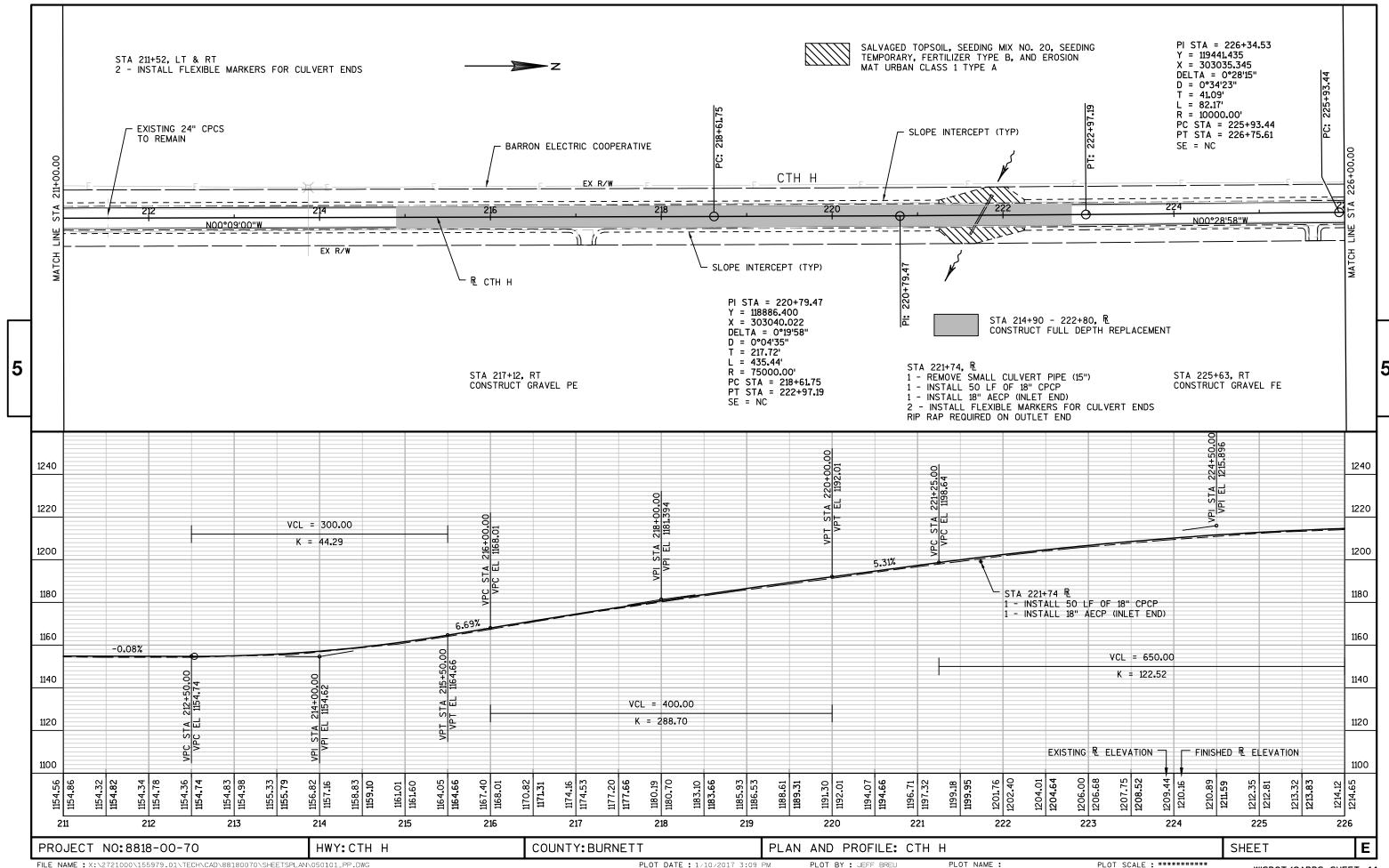


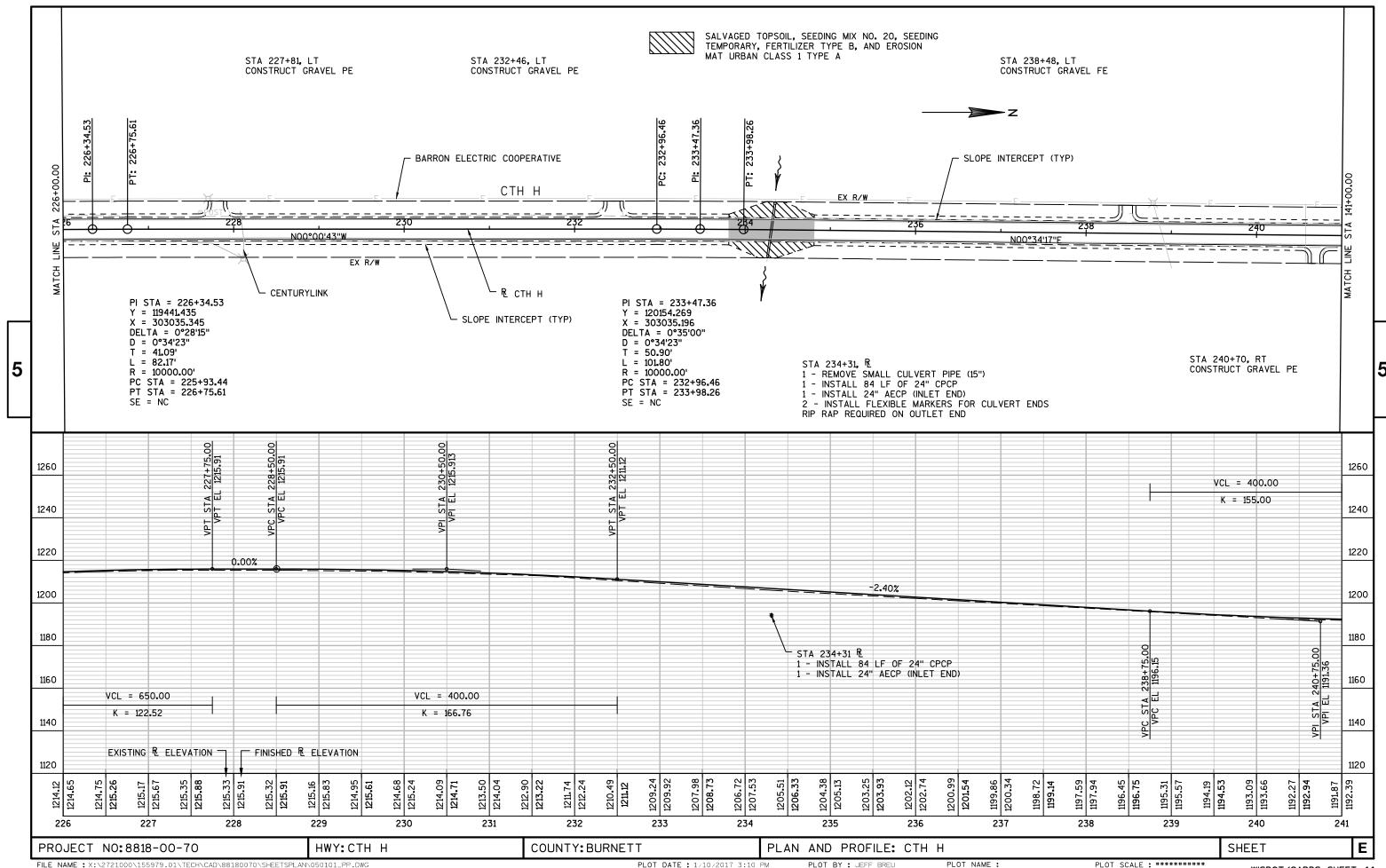


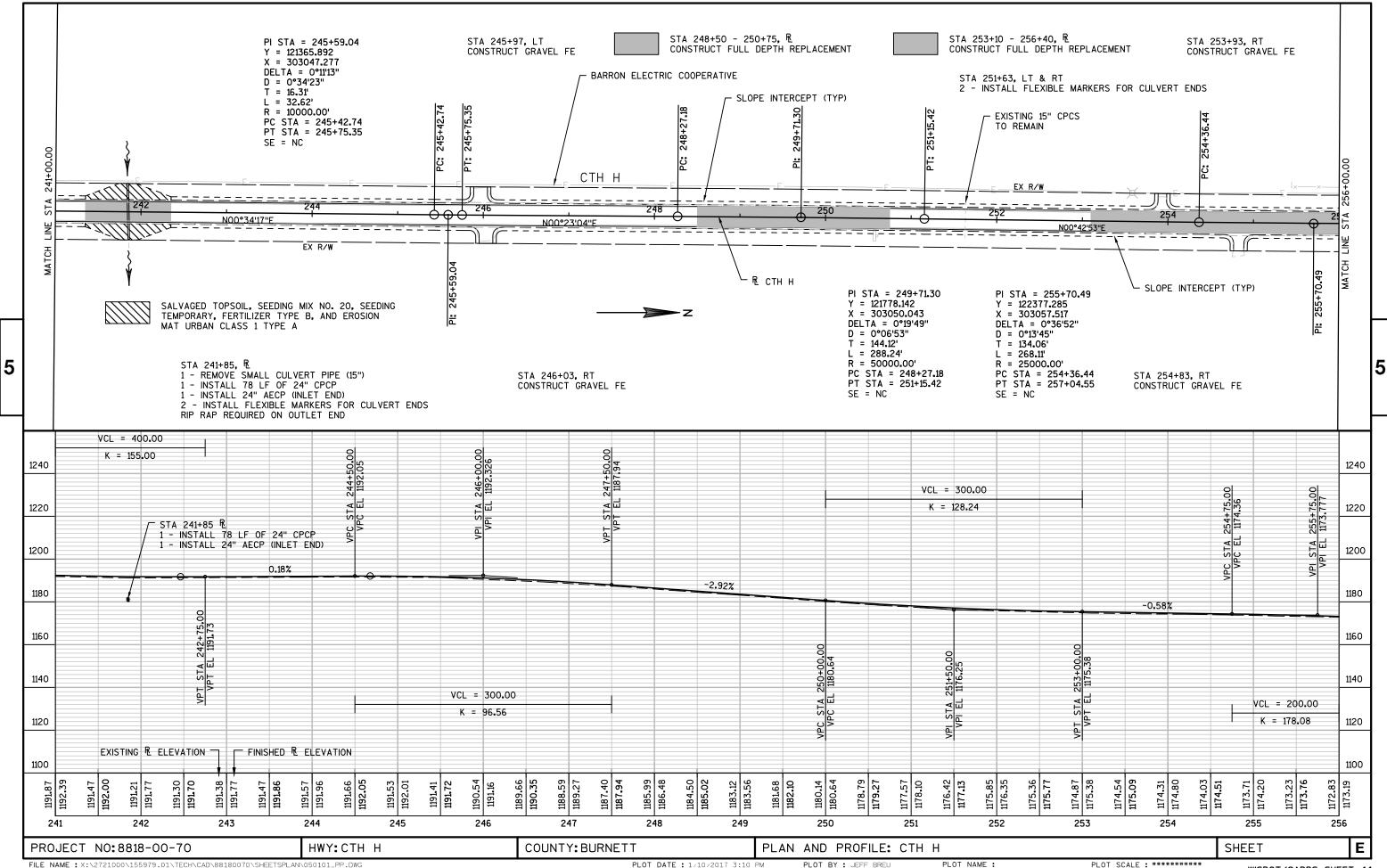


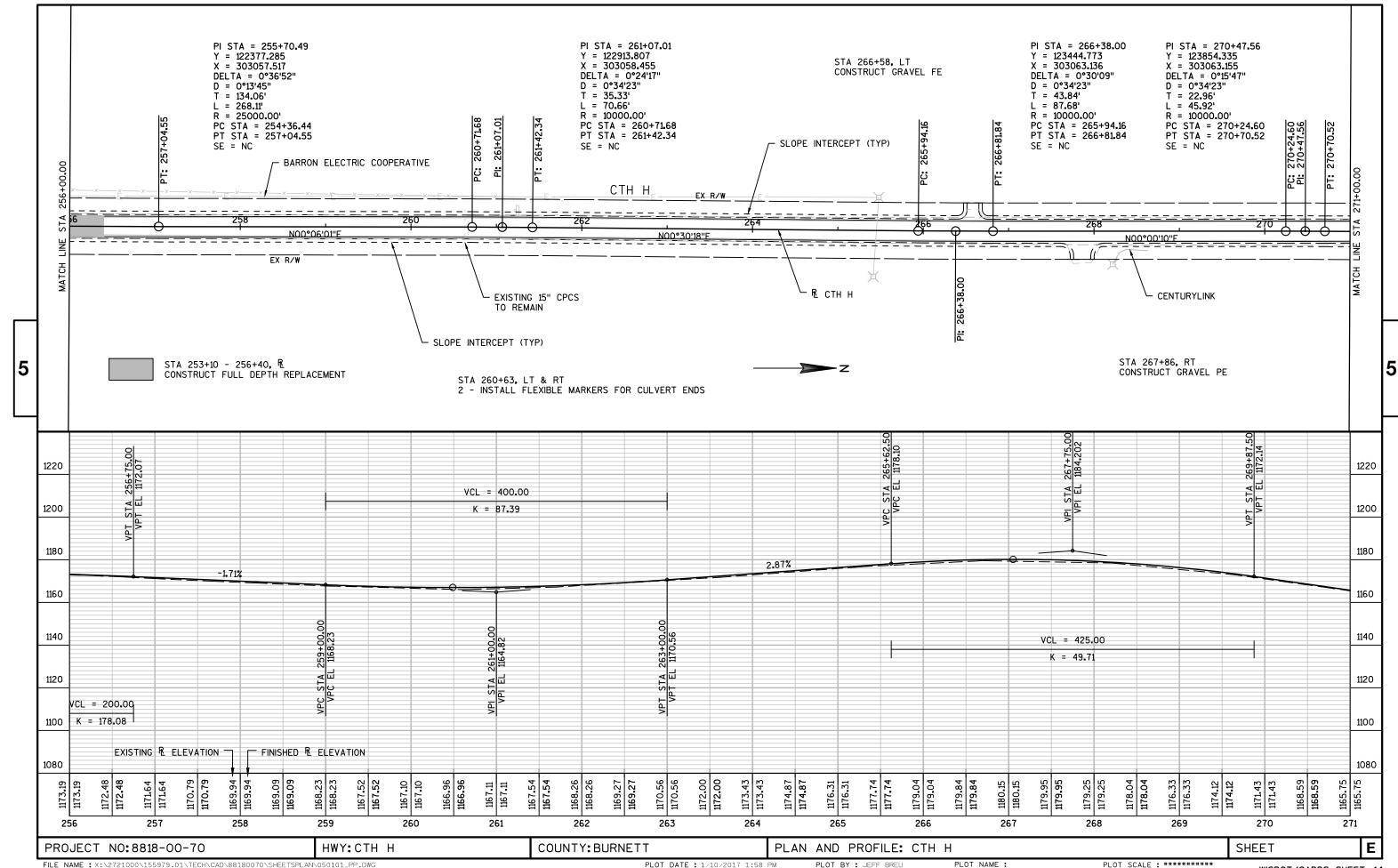


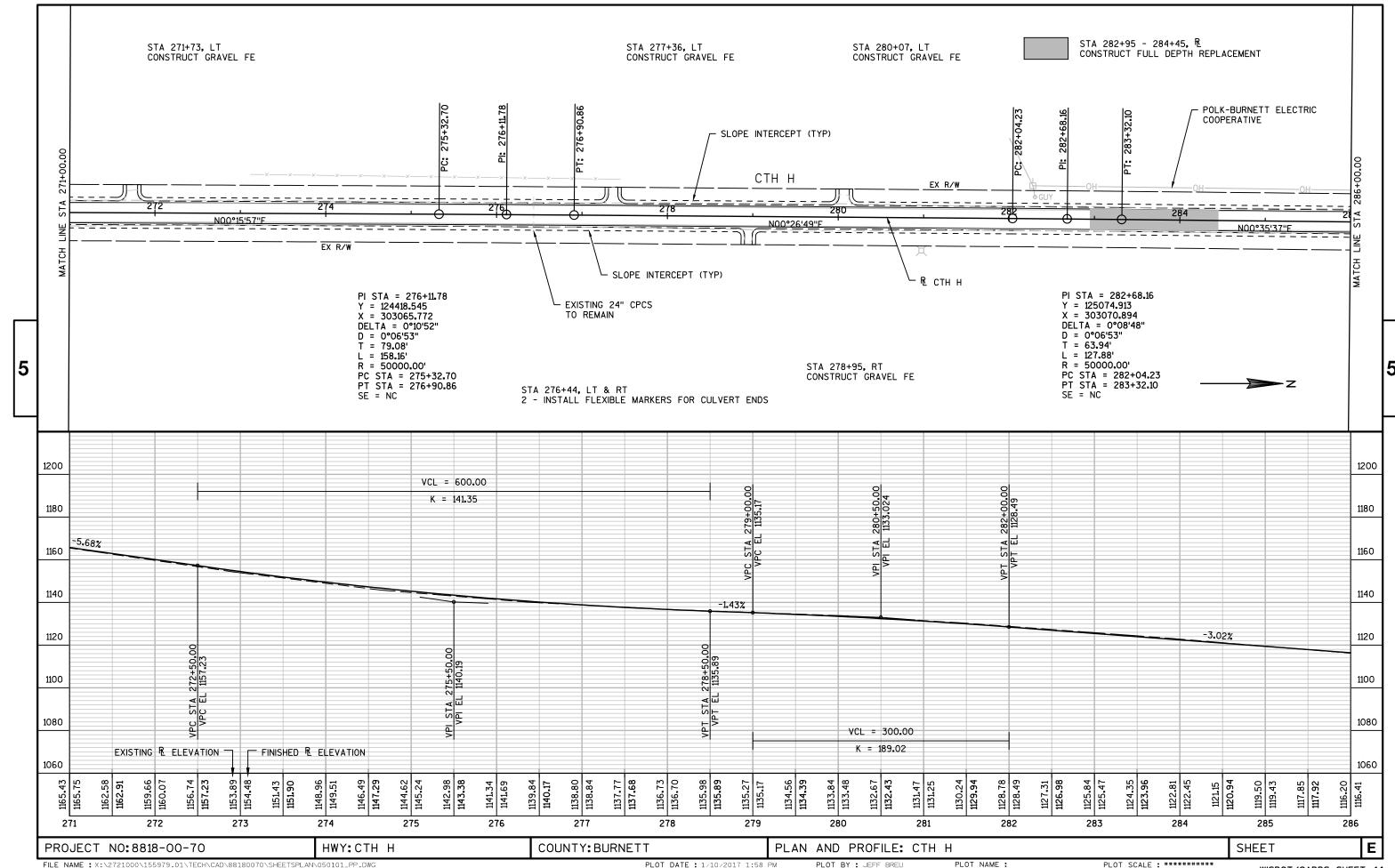


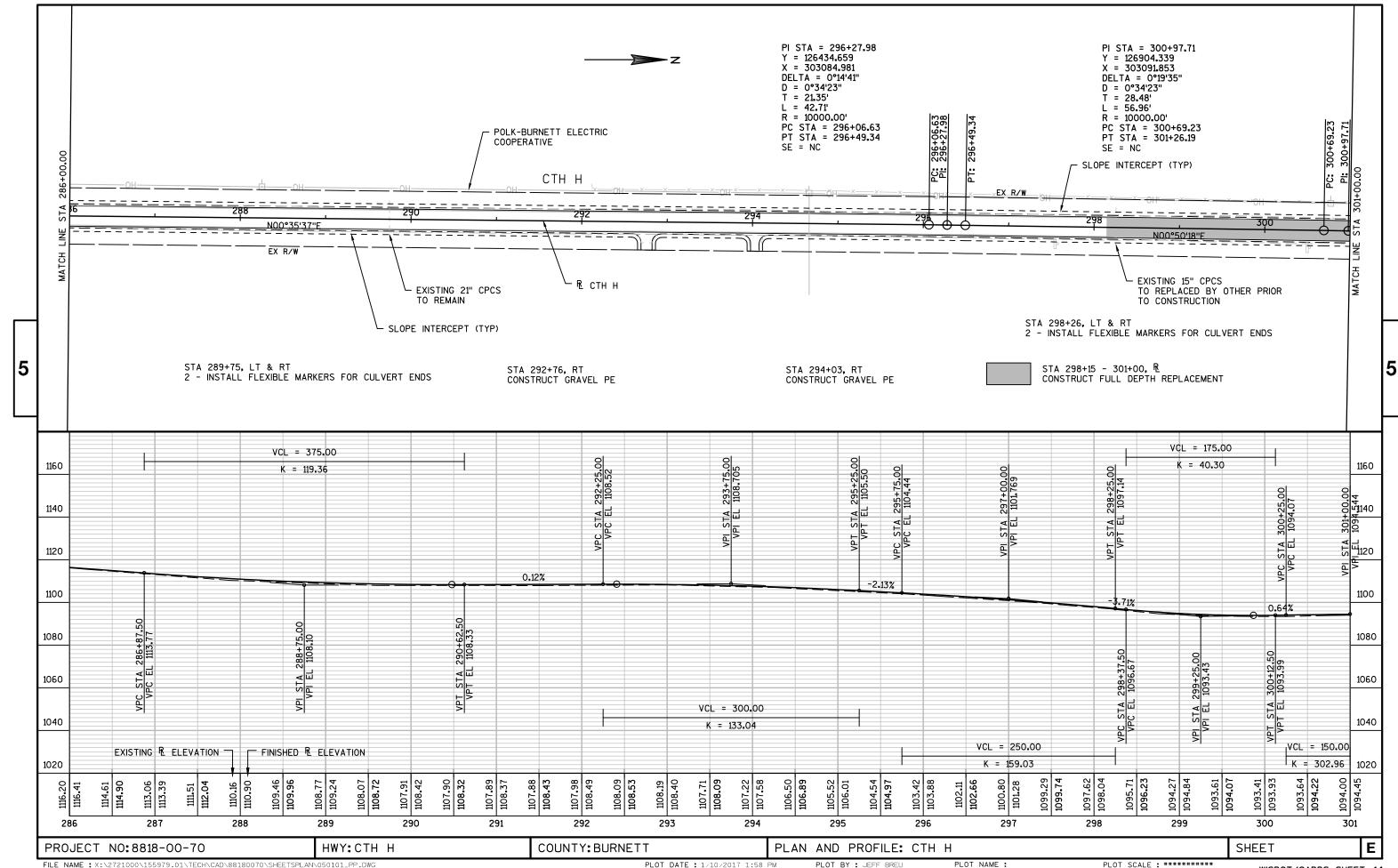


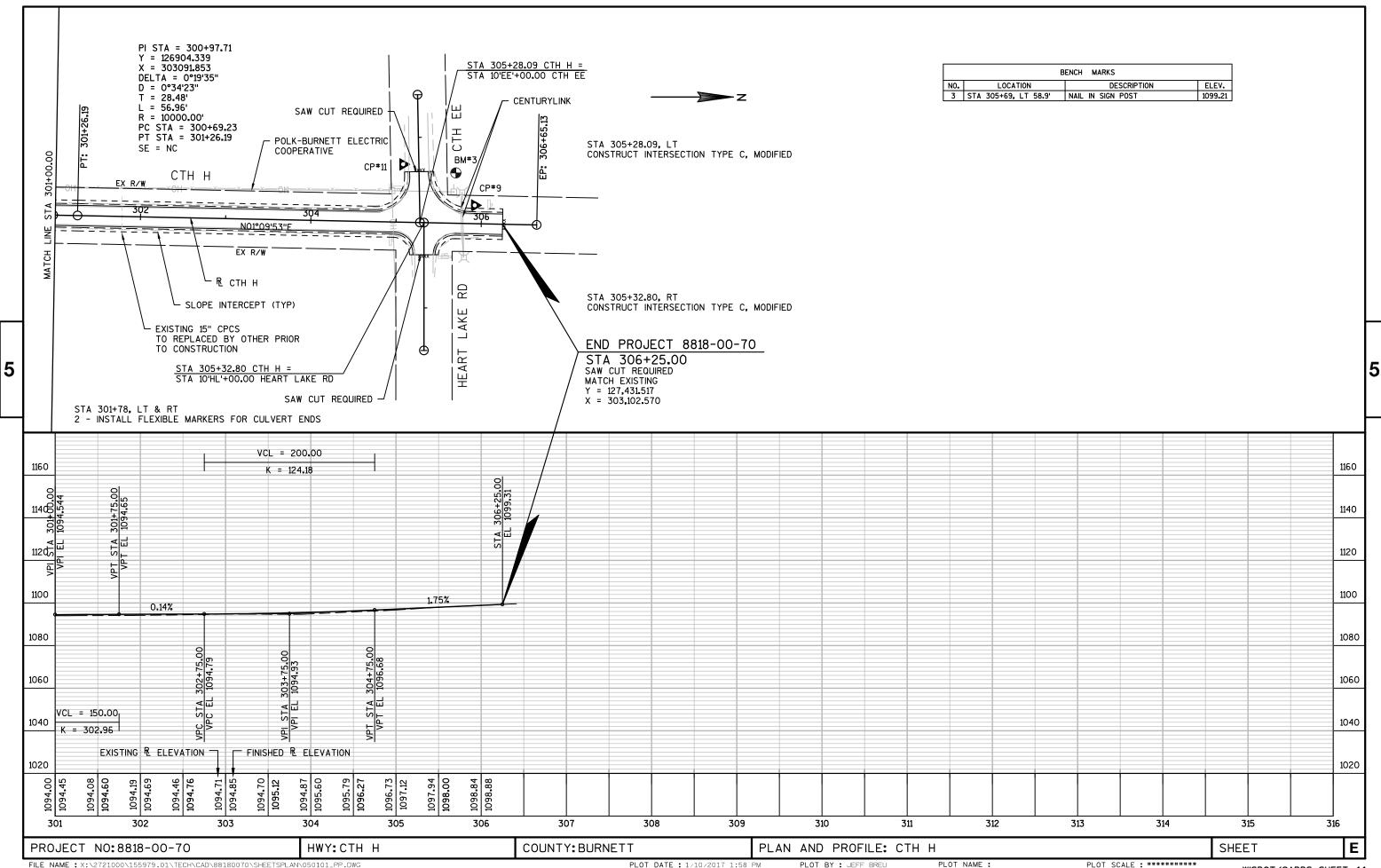












# Standard Detail Drawing List

08E09-06	SILT FENCE
08F01-11	APRON ENDWALLS FOR CULVERT PIPE
09A01-13A	AT-GRADE SIDE ROAD INTERSECTION, TYPES "B1", "B2", "C" AND D AND TEE INTERSECTION BYPASS LANE
15A03-02A	FLEXIBLE MARKER POST FOR CULVERT END
15A03-02B	FLEXIBLE MARKER POST FOR CULVERT END
15C02-06A	BARRICADES AND SIGNS FOR MAINLINE CLOSURES
15C02-06B	BARRICADES AND SIGNS FOR MAINLINE CLOSURES
15C04-03	TRAFFIC CONTROL, ADVANCE WARNING SIGNS 45 M.P.H. OR GREATER TWO-WAY UNDIVIDED ROAD OPEN TO TRAFFIC
15C08-17A	LONGITUDINAL MARKING (MAINLINE)
15C12-05	TRAFFIC CONTROL FOR LANE CLOSURE WITH FLAGGING OPERATION
15C35-01B	PAVEMENT MARKING AND SIGNING (CLIMBING LANE & PASSING LANE)
15C35-01C	PAVEMENT MARKING AND SIGNING (CLIMBING LANE & PASSING LANE)
15D12-06A	TRAFFIC CONTROL, LANE CLOSURE
15D12-06B	TRAFFIC CONTROL, LANE CLOSURE, SPEED REDUCTION
15D38-01A	TEMPORARY TRAFFIC CONTROL FIXED MESSAGE SIGNS

# TYPICAL APPLICATION OF SILT FENCE

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# 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.

- $\bigcirc$  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 11/8" X 11/8" 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



SILT FENCE TIE BACK

(WHEN REQUIRED BY THE ENGINEER)



SILT FENCE

S.D.D. 8 E 9-6

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	METAL APRON ENDWALLS										
PIPE	MIN. 1	THICK.			DIMENS	SIONS (I	nches)			APPROX.	
DIA.	(Incl		A	В	Н	L	Γį	L <sub>2</sub>	W	SLOPE	BODY
(IN.)	STEEL	ALUM.	(±1")	(MAX.)	(±1")	(±1 ½")	①	0	(±2")	320.2	
12	.064	.060	6	6	6	21	12	171/2	24	2½+o 1	1Pc.
15	.064	.060	7	8	6	26	14	213/4	30	2½to 1	1Pc.
18	.064	.060	8	10	6	31	15	281/4	36	21/2+o 1	1Pc.
21	.064	.060	9	12	6	36	18	295/8	42	21/2+o 1	1Pc.
24	.064	.075	10	13	6	41	18	371/4	48	21/2+o 1	1Pc.
30	.079	.075	12	16	8	51	18	521/4	60	21/2+0 1	1Pc.
36	.079	<b>.</b> 105	14	19	9	60	24	59¾	72	21/2+o 1	2 Pc.
42	.109	.105	16	22	11	69	24	75%	84	21/2 to 1	2 Pc.
48	.109	.105	18	27	12	78	24	81	90	2 <sup>1</sup> / <sub>4</sub> +o 1	3 Pc.
54	.109	.105	18	30	12	84	30	851/2	102	2 <sup>1</sup> / <sub>4</sub> †o 1	3 Pc.
60	.109×	.105×	18	33	12	87	_	_	114	2 to 1	3 Pc.
66	.109×	.105×	18	36	12	87	_	_	120	2 to 1	3 Pc.
72	.109×	.105×	18	39	12	87	_	_	126	2 to 1	3 Pc.
78	.109×	.105×	18	42	12	87	_	_	132	11/2+0 1	3 Pc.
84	.109×	.105×	18	45	12	87	_	_	138	11/2 to 1	3 Pc.
90	.109×	.105×	18	37	12	87	_	_	144	11/2+0 1	3 Pc.
96	.109×	.105×	18	35	12	87	_	_	150	1/2+0 1	3 Pc.

	REINFORCED CONCRETE APRON ENDWALLS							
PIPE		DIMENSIONS (Inches)						APPROX.
DIA.	T	A	В	С	D	Ε	G	SLOPE
12	2	4	24	48 1/8	721/8	24	2	3 to 1
15	21/4	6	27	46	73	30	21/4	3 to 1
18	21/2	9	27	46	73	36	21/2	3 to 1
21	23/4	9	36	371/2	731/2	42	23/4	3 to 1
24	3	91/2	431/2	30	731/2	48	3	3 to 1
27	31/4	101/2	491/2	24	731/2	54	31/4	3 to 1
30	$3\frac{1}{2}$	12	54	193/4	731/2	60	31/2	3 to 1
36	4	15	63	34¾	97¾	72	4	3 to 1
42	$4\frac{1}{2}$	21	63	35	98	78	41/2	3 to 1
48	5	24	72	26	98	84	5	3 to 1
54	51/2		65	**************************************	8 <sup>1</sup> / <sub>4</sub> - 100	90	51/2	2% to 1
60	6	* * * 30-35	60	39	99	96	5	2 to 1
66	61/2	<del>* * *</del>   24-30	<del>*</del> <del>* *</del>   72-78	* * * 21-27	99	102	51/2	2 to 1
72	7	* ** 24-36	78	21	99	108	6	2 to 1
78	71/2	* ** 24-36	78	21	99	114	61/2	2 to 1
84	8	36	901/2	21	1111/2	120	61/2	1½+o 1
90	81/2	41	871/2	24	1111/2	132	61/2	11/2+0 1

THREADED %6" DIA. ROD CONNECTOR AROUND CULVERT & THROUGH TANK TYPE CONNECTOR LUG LUG OR ALTERNATE CONNECTOR STRAP (SEE DETAIL) MEASURED LENGTH OF CULVERT TYPE 1 FOR 12" THRU 24" CORR. PIPE







NOTE: DIMPLED BAND FITS OVER OUTSIDE OF ENDWALL. AND CORRUGATED BAND FITS INSIDE ENDWALL.

CORRUGATED PIPE. FOR CIRCUMFERENTIALLY CORRUGATED PIPE USE ENDWALL CONNECTION DETAILS 1, 2, 3 OR 5

DIMPLED BAND MAY BE USED WITH HELICALLY

FOR HELICALLY CORRUGATED PIPE USE ENDWALL CONNECTION DETAILS 1, 2 OR 5.

FOR HELICALLY CORRUGATED PIPES WITH TWO CIRCUMFERENTIAL CORRUGATIONS AT EACH END USE ENDWALL CONNECTION DETAILS 1, 2 OR 3.

1" WIDE, 12 GA. (0.109" THICK) GALVANIZED STRAP WITH STANDARD 6" X 1/2" BAND BOLT AND NUT ALTERNATE FOR TYPE 1 CONNECTION END SECTION CONNECTOR STRAP

#### \* EXCEPT CENTER PANEL SEE GENERAL NOTES





SHOULDER

SLOPE



SIDE ELEVATION METAL ENDWALLS



\*\*MAXIMUM





CONCRETE ENDWALLS

CONNECTION DETAILS



## SECTION A-A

#### 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.

CONCRETE CULVERT ENDWALLS MAY NOT BE USED WITH GALVANIZED STEEL OR ALUMINUM CULVERT PIPE OR VISE VERSA, GALVANIZED STEEL OR ALUMINUM ENDWALLS SHALL NORMALLY BE INSTALLED ON CULVERT PIPE OF THE SAME METAL.

ALL THREE PIECE STEEL APRON ENDWALLS FOR 60" DIAMETER PIPE AND LARGER SHALL HAVE 0.109" SIDES AND 0.138" CENTER PANELS. ALL THREE PIECE ALUMINUM APRON ENDWALLS FOR 60" DIAMETER PIPE AND LARGER SHALL HAVE 0.105" SIDES AND 0.134" CENTER PANELS. THE WIDTH OF CENTER PANELS SHALL BE GREATER THAN 20 PERCENT OF THE PIPE

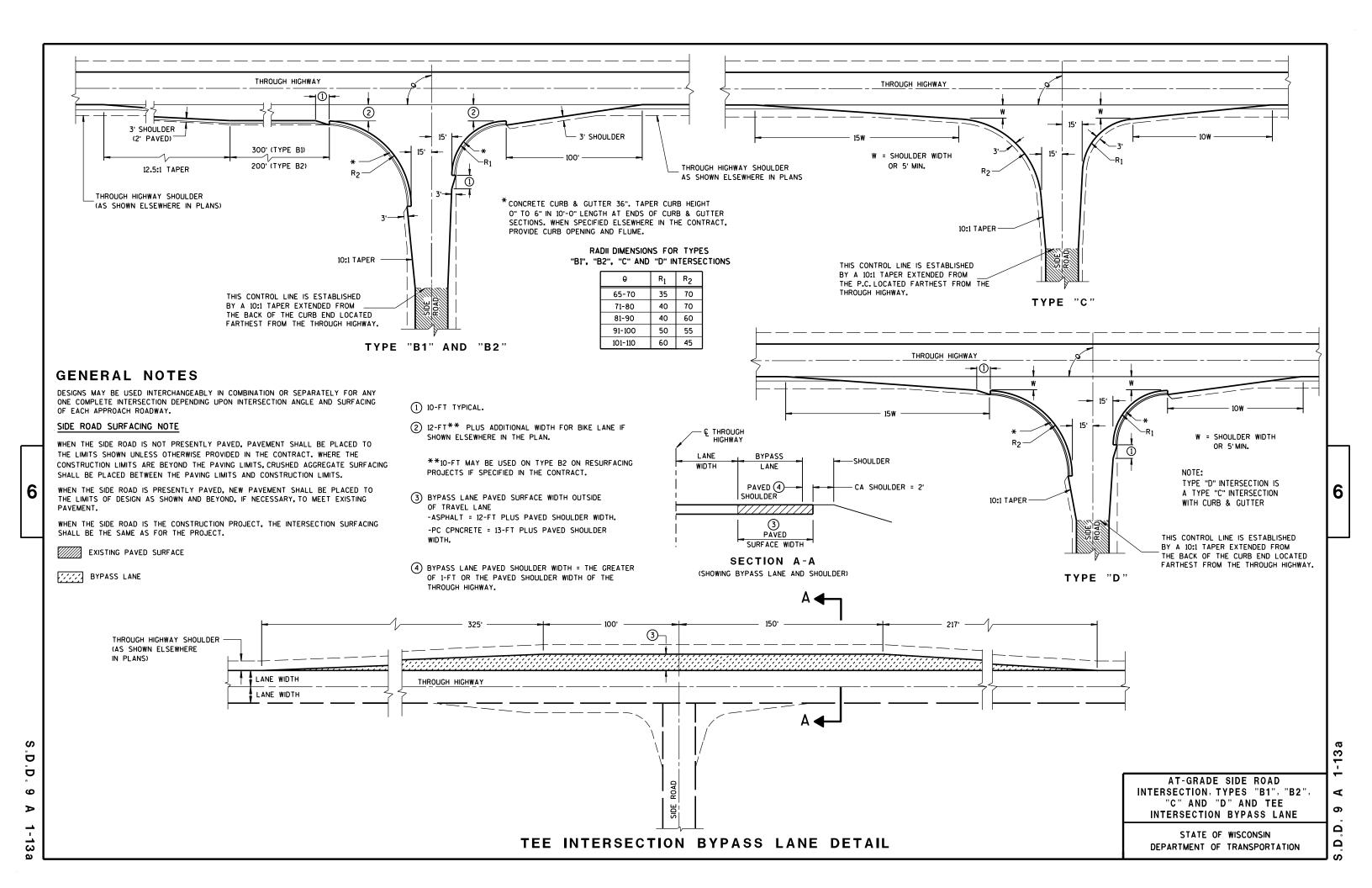
LAP SEAMS SHALL BE TIGHTLY JOINED BY GALVANIZED RIVETS OR BOLTS FOR STEEL UNITS AND ALUMINUM RIVETS AND BOLTS FOR ALUMINUM UNITS. FOR THE 60" THROUGH 96" DIAMETER APRON ENDWALL SIZES. THE REINFORCED EDGES AND CENTER PANEL SEAMS SHALL BE FURTHER REINFORCED WITH GALVANIZED STEEL OR ALUMINUM STIFFENER ANGLES. THE ANGLES SHALL BE ATTACHED BY GALVANIZED NUTS AND BOLTS FOR STEEL UNITS AND ALUMINUM NUTS AND BOLTS FOR ALUMINUM UNITS.

WHERE TWO OR MORE PIPES WITH APRON ENDWALLS ARE LAID ADJACENT TO EACH OTHER, THEY SHALL BE SEPARATED BY A DISTANCE SUFFICIENT TO PROVIDE A MINIMUM CLEARANCE OF 6 INCHES BETWEEN APRON ENDWALLS.

(1) FOR PIPE SIZES UP TO 60" DIAMETER, A 180° ROLLED EDGE MAY BE USED INSTEAD OF STEEL ROD REINFORCEMENT. SEE SECTION A-A.



11/30/94 /S/ Rory L. Rhinesmith CHIEF ROADWAY DEVELOPMENT ENGINEER









## ROAD CLOSURE BARRICADE DETAIL

APPROACH VIEW



#### DETAIL E LANE CLOSURE BARRICADE DETAIL APPROACH VIEW

SEE SDD 15C2-SHEET "a" FOR LEGEND

#### **GENERAL NOTES**

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

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.

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.

BARRICADES THAT MUST BE MOVED FOR A WORK OPERATION SHALL BE IMMEDIATELY RE-ESTABLISHED UPON COMPLETION OF THE OPERATION OR, FOR CONTINUING OPERATIONS, AT THE END OF EACH WORKING DAY.

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

ALL TYPE III BARRICADES SHALL HAVE RAILS REFLECTORIZED ON BOTH FACES. STRIPES SHALL BE PROPERLY SLOPED DOWN TOWARD THE TRAFFIC SIDE OR AS SHOWN IN THE ROAD CLOSURE BARRICADE DETAIL D FOR FULL ROAD CLOSURES.

TYPE "A" LOW-INTENSITY FLASHING WARNING LIGHTS SHALL BE VISIBLE ON BOTH SIDES OF THE

THE R11-2, R11-3, M4-9, R11-4 AND R10-61 SIGNS PLACED ON BARRICADES SHALL COVER NO MORE THAN THE TOP RAIL. THE SIGNS SHALL NOT COVER ANY PORTION OF THE MIDDLE OR BOTTOM RAILS.

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

ALL SIGNS SHALL BE 48" X 48" UNLESS OTHERWISE NOTED BELOW:

R11-2 SHALL BE 48" X 30". R11-3, R11-4 AND R10-61 SHALL BE 60" X 30". M4-9 SHALL BE 30" X 24". M3-X SHALL BE 24" X 12". (36" X 18" IF NEEDED TO MATCH EXISTING SIGNS.) M4-8 SHALL BE 24" X 12". (30" X 15" IF NEEDED TO MATCH EXISTING SIGNS.) M1-4, M1-5A, AND M1-6 SHALL BE 24" X 24". (36" X 36" IF NEEDED TO MATCH EXISTING SIGNS.) MO5-1 AND MO6-1 SHALL BE 21" X 21". (30" X 30" IF NEEDED TO MATCH EXISTING SIGNS.) D1-X SHALL BE AS SHOWN ON SPECIFIC PROJECT SIGNING DETAIL SHEETS. R1-1 SHALL BE 36" X 36".

- (1) TWO WARNING LIGHTS SHALL BE PROVIDED ON THE CENTER BARRICADE AND A MINIMUM OF ONE WARNING LIGHT SHALL BE PROVIDED ON EACH OF THE OTHER BARRICADES WITHIN THE ROADWAY LIMITS. SPACING OF THE WARNING LIGHTS SHALL BE UNIFORM TO THE EDGE OF ROADWAY AS SHOWN (APPROX. 8-FOOT
- THESE SIGNS AND BARRICADES ARE NOT REQUIRED IF ROAD CLOSURE BEGINS AT INTERSECTION.
- FOR ROAD CLOSURE WITHOUT LOCAL ACCESS TO PROJECT, SEE ROAD CLOSURE BARRICADE DETAIL D.
- FOR ROAD CLOSURE WITH LOCAL ACCESS TO PROJECT, SEE LANE CLOSURE BARRICADE DETAIL E.
- FOR BRIDGE OR CULVERT REPLACEMENTS, SUBSTITUTE "BRIDGE OUT" INSTEAD OF "ROAD CLOSED" ON R11-2 AND R11-3 SIGNS.
- INSTALL DETOUR AND COMMUNITY GUIDE SIGNS AND ARROWS ONLY IF SPECIFIED IN THE CONTRACT. IF THERE ARE EXISTING ROUTE MARKER ASSEMBLIES THAT WILL REMAIN IN PLACE, ADJUST THE LOCATION OF THE DETOUR ROUTE SIGNS TO CORRESPOND WITH THE EXISTING ASSEMBLIES. MODIFY EXISTING SIGNS WHERE POSSIBLE. SEE SPECIFIC PROJECT DETOUR SIGNING DETAIL SHEETS. IF DETOUR SIGNS ARE BEING INSTALLED BY OTHERS. PLACE THE CONTRACTED TRAFFIC CONTROL SIGNS TO ALLOW FOR PLACEMENT OF ALL WARNING, DETOUR AND GUIDE SIGNS AS SHOWN.
- "EAST" CARDINAL DIRECTION MARKERS AND RIGHT TURN ARROWS ARE SHOWN. USE OTHER CARDINAL DIRECTIONS AND ARROWS AS APPROPRIATE.

#### BARRICADES AND SIGNS FOR MAINLINE CLOSURES

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STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

/S/ Peter Amakobe Atepe

STATEWIDE WORK ZONE TRAFFIC SAFETY ENGINEER

#### **GENERAL NOTES**

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

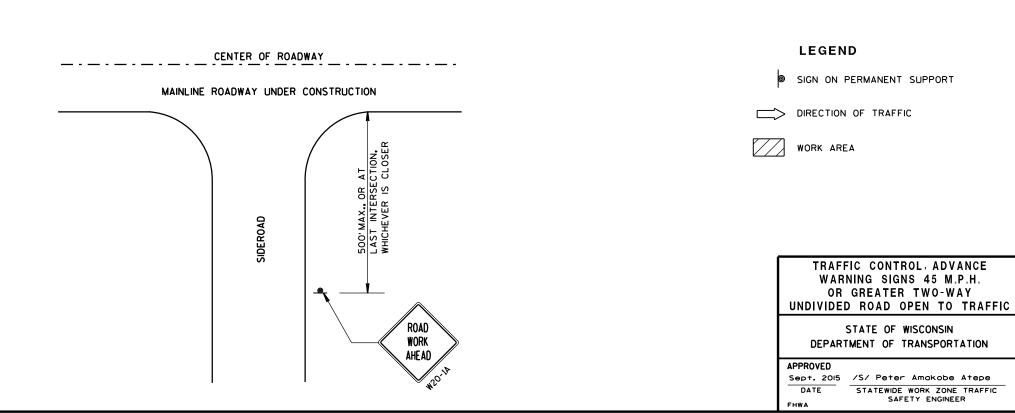
THE SPACING BETWEEN TRAFFIC CONTROL SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND SHOULD PROVIDE A MINIMUM OF 200 FEET (500 FEET DESIRABLE) CLEARANCE TO EXISTING SIGNS THAT WILL REMAIN IN PLACE.

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.

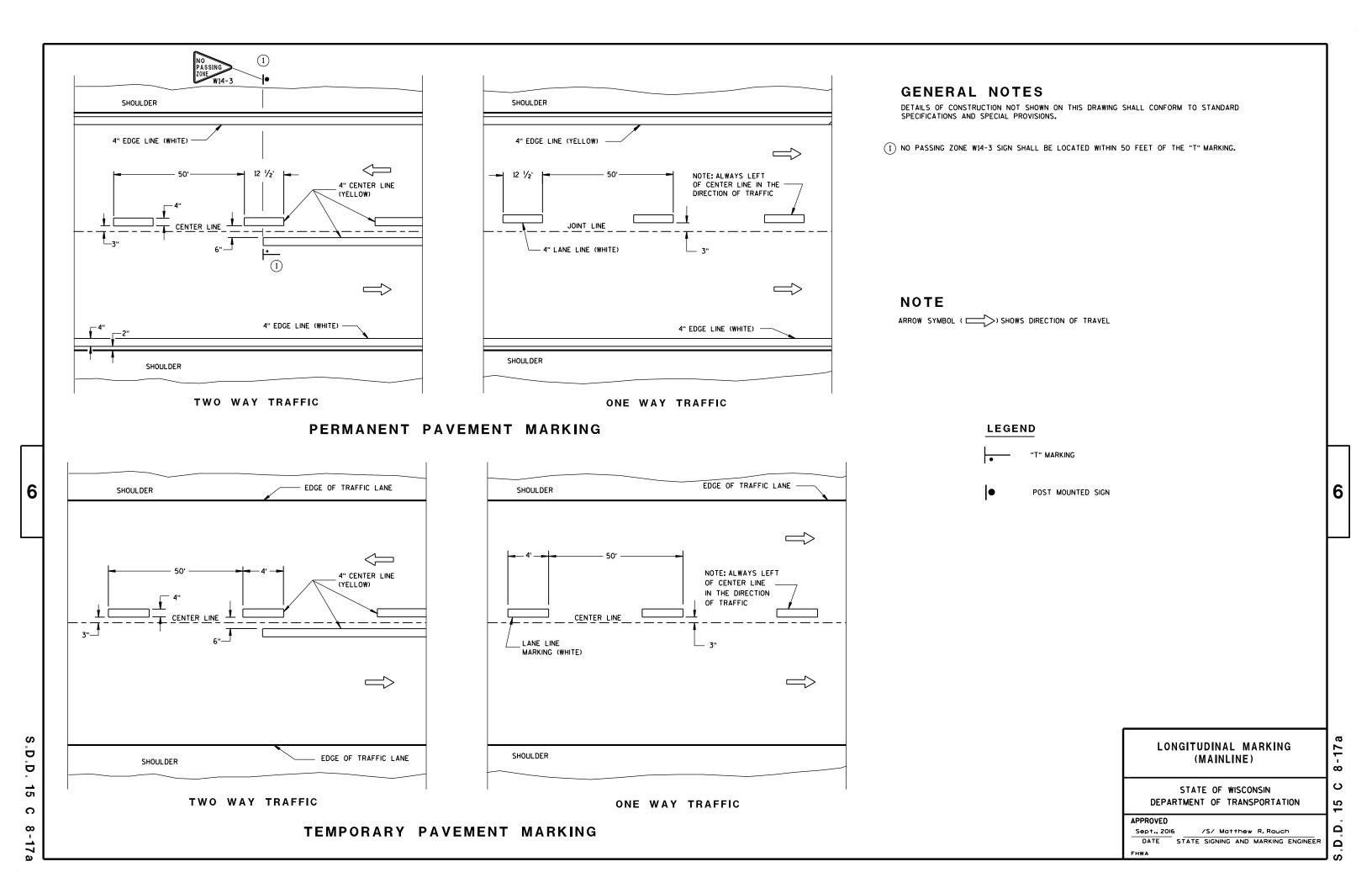
IF A "STOP" SIGN MUST BE REMOVED FOR A WORK OPERATION, A TEMPORARY "STOP" SIGN SHALL BE PLACED PRIOR TO THE SIGN REMOVAL, OR A FLAGGER SHALL BE PROVIDED UNTIL THE SIGN IS RE-ESTABLISHED.

- \* 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.



4

SAFETY ENGINEER



#### TRAFFIC CONTROL FOR LANE CLOSURE WITH FLAGGING OPERATION

#### **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.

- \* UTILIZE TEMPORARY RUMBLE STRIPS WHEN FLAGGING OPERATION IS ANTICIPATED TO BE STATIONARY IN EXCESS OF TWO HOURS.
- FOR A MOVING WORK OPERATION, SIGNING AND TEMPORARY RUMBLE STRIPS (IF USED) 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 TEMPORARY RUMBLE STRIP ARRAY CONSISTS OF THREE RUMBLE STRIPS SPACED ACCORDING TO MANUFACTURER'S RECOMMENDATION, PLACED TRANSVERSE ACROSS THE LANE AT LOCATIONS SHOWN.

TRAFFIC CONTROL FOR LANE CLOSURE WITH FLAGGING OPERATION

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

December, 2016 /S/ Andrew Heidtke

DATE WORK ZONE ENGINEER

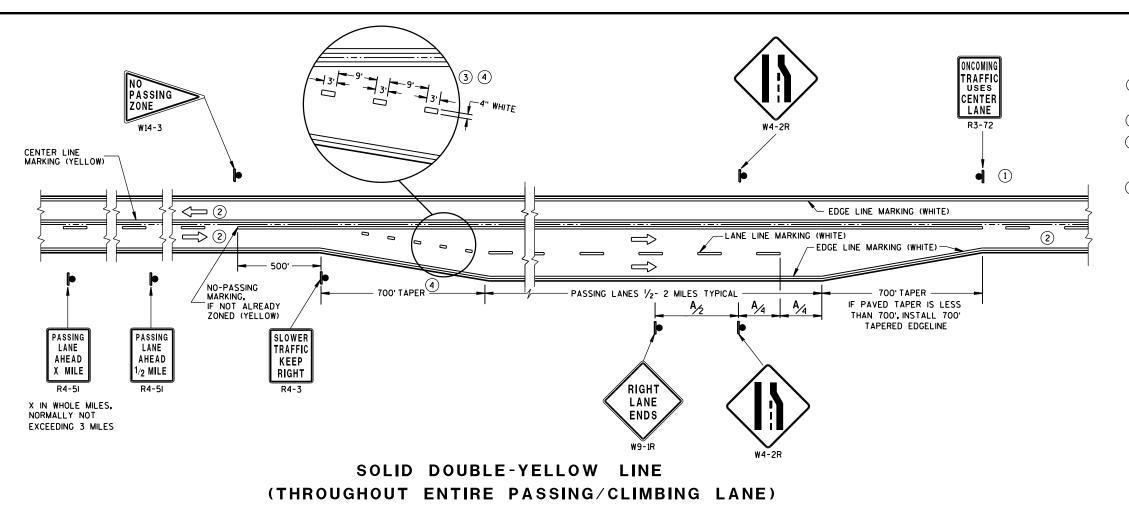
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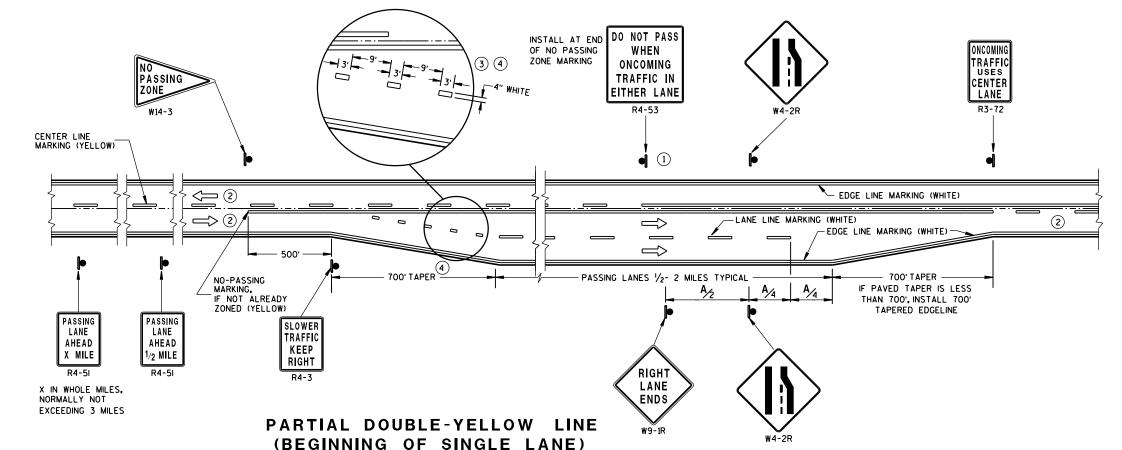
#### GENERAL NOTES

- $\bigcirc$  Sign shall be repeated at 1 mile increments or at the discretion of the regional traffic engineer.
- (2) THERE MAY BE SOLID YELLOW ON THE CENTERLINE DUE TO SIGHT CONDITIONS.
- THE TAPER LENGTH OF THE DOTTED LINE PAVEMENT MARKING SHALL BE 700 FEET, 3'LINE 9'GAP, EXCEPT RETRACE THE EXISTING LINE-GAP PATTERN WHERE EXISTING MARKINGS ARE IN PLACE.
- WHEN THE ENTRANCE TAPER IS LESS THAN 700 FEET OR THE SHOULDER WIDTH IN THE PASSING/CLIMBING LANE IS LESS THAN THE ADJACENT HIGHWAY, DO NOT INSTALL DOTTED LINE PAVEMENT MARKING.

ARROW SYMBOL ( >> ) SHOWS DIRECTION OF TRAVEL

#### DISTANCE TABLE

POSTED OR 85th PERCENTILE SPEED	DISTANCE "A"
45	750
50	850
55	950



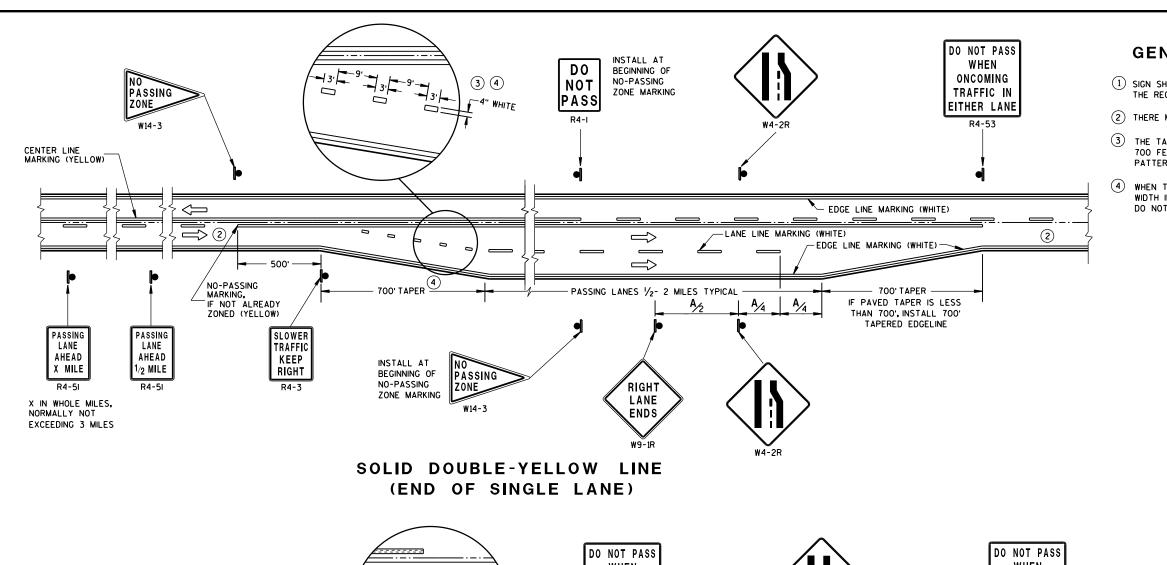
PAVEMENT MARKING & SIGNING
(CLIMBING LANE &
PASSING LANE)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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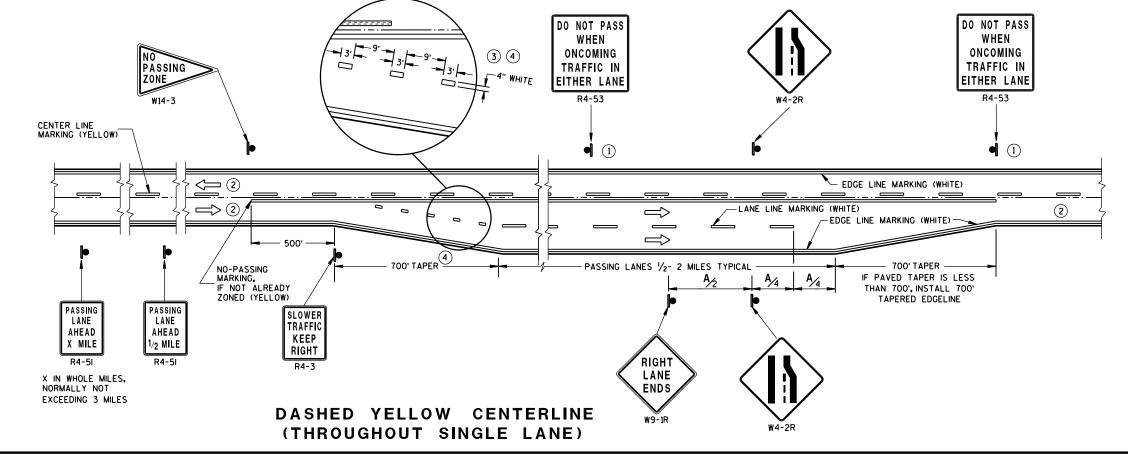
#### **GENERAL NOTES**

- 1 SIGN SHALL BE REPEATED AT ONE MILE INCREMENTS OR AT THE DISCRETION OF THE REGIONAL TRAFFIC ENGINEER.
- (2) THERE MAY BE SOLID YELLOW ON THE CENTERLINE DUE TO SIGHT CONDITIONS.
- 3 THE TAPER LENGTH OF THE DOTTED LINE PAVEMENT MARKING SHALL BE 700 FEET, 3'LINE 9'GAP, EXCEPT RETRACE THE EXISTING LINE-GAP PATTERN WHERE EXISTING MARKINGS ARE IN PLACE.
- WHEN THE ENTRANCE TAPER IS LESS THAN 700 FEET OR THE SHOULDER WIDTH IN THE PASSING/CLIMBING LANE IS LESS THAN THE ADJACENT HIGHWAY, DO NOT INSTALL DOTTED LINE PAVEMENT MARKING.

ARROW SYMBOL ( ) SHOWS DIRECTION OF TRAVEL

#### DISTANCE TABLE

POSTED OR 85th PERCENTILE SPEED	DISTANCE "A"
45	750
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55	950



PAVEMENT MARKING & SIGNING
(CLIMBING LANE &
PASSING LANE)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

Sept. 2016

DATE

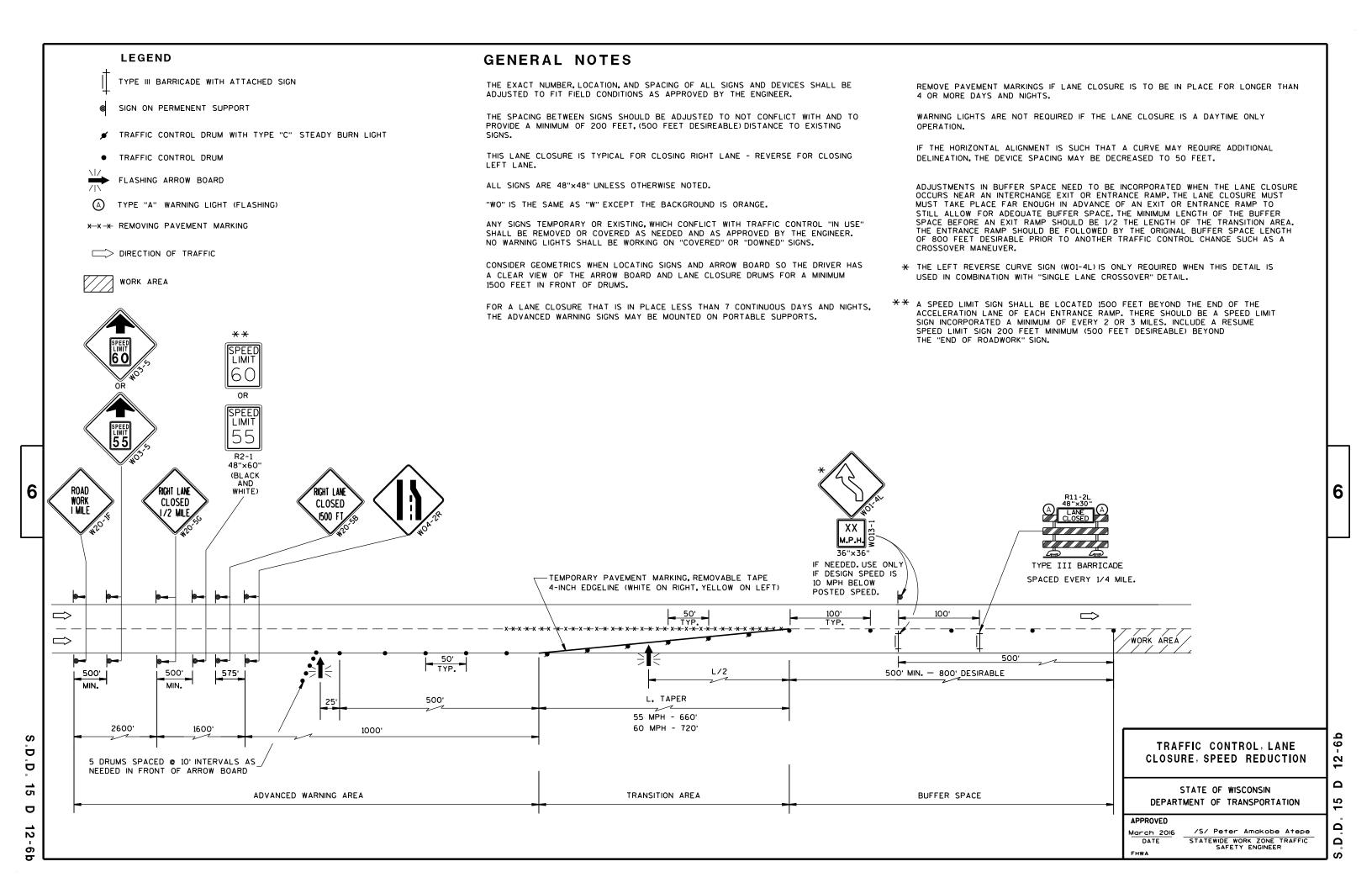
STATE SIGNING AND MARKING ENGINEER

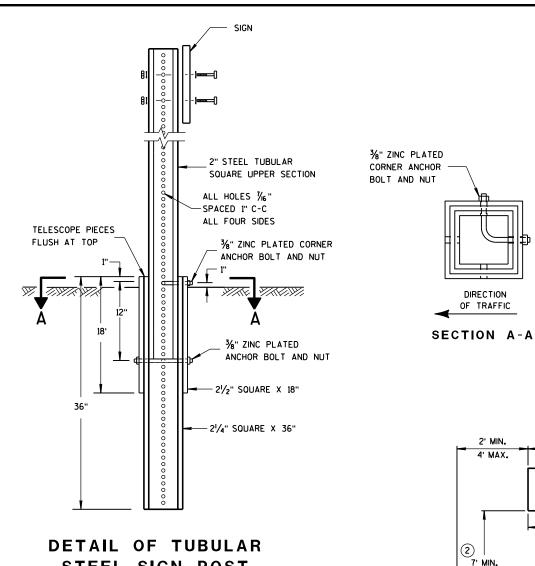
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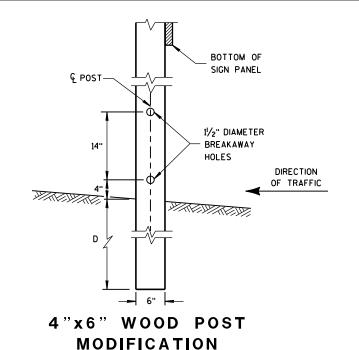
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#### **GENERAL NOTES LEGEND** THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND DEVICES SHALL BE REMOVE PAVEMENT MARKINGS IF LANE CLOSURE IS TO BE IN PLACE FOR LONGER THAN ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER. 4 OR MORE DAYS AND NIGHTS. TYPE III BARRICADE WITH ATTACHED SIGN 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 WARNING LIGHTS ARE NOT REQUIRED IF THE LANE CLOSURE IS A DAYTIME ONLY OPERATION. SIGN ON PERMENENT SUPPORT IF THE HORIZONTAL ALIGNMENT IS SUCH THAT A CURVE MAY REQUIRE ADDITIONAL TRAFFIC CONTROL DRUM WITH TYPE "C" STEADY BURN LIGHT THIS LANE CLOSURE IS TYPICAL FOR CLOSING RIGHT LANE - REVERSE FOR CLOSING DELINEATION. THE DEVICE SPACING MAY BE DECREASED TO 50 FEET. LEFT LANE. TRAFFIC CONTROL DRUM ALL SIGNS ARE 48"x48" UNLESS OTHERWISE NOTED. ADJUSTMENTS IN BUFFER SPACE NEED TO BE INCORPORATED WHEN THE LANE CLOSURE OCCURS NEAR AN INTERCHANGE EXIT OR ENTRANCE RAMP. THE LANE CLOSURE MUST FLASHING ARROW BOARD "WO" IS THE SAME AS "W" EXCEPT THE BACKGROUND IS ORANGE. 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. ANY SIGNS TEMPORARY OR EXISTING, WHICH CONFLICT WITH TRAFFIC CONTROL "IN USE" TYPE "A" WARNING LIGHT (FLASHING) 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 SHALL BE REMOVED OR COVERED AS NEEDED AND AS APPROVED BY THE ENGINEER. NO WARNING LIGHTS SHALL BE WORKING ON "COVERED" OR "DOWNED" SIGNS. \* X -X REMOVING PAVEMENT MARKING CROSSOVER MANEUVER. CONSIDER GEOMETRICS WHEN LOCATING SIGNS AND ARROW BOARD SO THE DRIVER HAS \* THE LEFT REVERSE CURVE SIGN (WO1-4L) IS ONLY REQUIRED WHEN THIS DETAIL IS A CLEAR VIEW OF THE ARROW BOARD AND LANE CLOSURE DRUMS FOR A MINIMUM USED IN COMBINATION WITH "SINGLE LANE CROSSOVER" DETAIL. DIRECTION OF TRAFFIC 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. 6 6 WORK CLOSED CLOSED I MILE 1500 F XX м.Р.н 36"×36" IF NEEDED. USE ONLY TYPE III BARRICADE IF DESIGN SPEED IS TEMPORARY PAVEMENT MARKING, REMOVABLE TAPE SPACED EVERY 1/4 MILE. 10 MPH BELOW 4-INCH EDGELINE (WHITE ON RIGHT, YELLOW ON LEFT) POSTED SPEED. 100' $\Rightarrow$ $\Rightarrow$ $\Longrightarrow$ WORK AREA 50' L/2 500' MIN. - 800' DESIRABLE 575 L. TAPER 500 50 MPH - 600' 55 MPH - 660' 2600' 1600' 1000' 60 MPH - 720' TRAFFIC CONTROL, 9 65 MPH - 780' D 70 MPH - 840' LANE CLOSURE 5 DRUMS SPACED @ 10' INTERVALS AS 2 Ö NEEDED IN FRONT OF ARROW BOARD 15 Ω STATE OF WISCONSIN ADVANCED WARNING AREA TRANSITION AREA BUFFER SPACE DEPARTMENT OF TRANSPORTATION D **APPROVED** /S/ Peter Amakobe Atepe 2 March 2016 STATEWIDE WORK ZONE TRAFFIC SAFETY ENGINEER Ω 6 FHWA







#### **GENERAL NOTES**

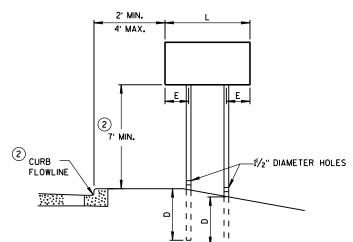
- (1) 6 FEET FROM THE EDGE OF PAVEMENT (EDGE LINE LOCATION) UNLESS OTHERWISE DIRECTED BY THE PROJECT ENGINEER. LATERAL OFFSET SHOULD BE ADJUSTED TO AVOID THE DITCH FLOWLINE.
- (2) THE EXISTENCE OF CURB AND GUTTER DOES NOT IN ITSELF MANDATE THE VERTICAL CLEARANCE ILLUSTRATED. THAT HEIGHT IS TYPICALLY 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. IF NO SIDEWALK AND NO PARKING,
  VERTICAL CLEARANCE MAY BE REDUCED TO 5 FOOT MINIMUM. OFFSET OF SIGNS IS MEASURED FROM THE CURB FLOWLINE.
- (3) FOR SIGNS REQUIRING 4 POSTS, SPACE INTERMEDIATE POSTS EVENLY.

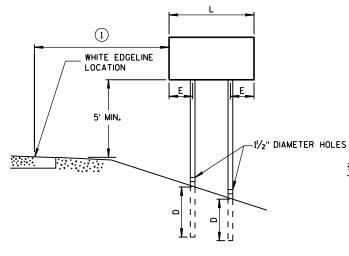
STEEL SIGN POST

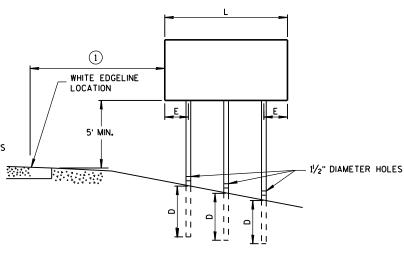
#### TUBULAR STEEL POSTS

AREA OF SIGN INSTALLATION (SO. FT.)	NUMBER OF REQUIRED TUBULAR STEEL POSTS
9 OR LESS	1
GREATER THAN 9 LESS THAN OR EQUAL TO 18	2
GREATER THAN 18 LESS THAN OR EQUAL TO 27	3

SIGNS WIDER THAN 3 FEET OR LARGER THAN 9 SO.FT. SHALL BE MOUNTED ON MULTIPLE POSTS (SEE ABOVE TABLE). SIGNS LARGER THAN 27 SO.FT. SHALL NOT BE MOUNTED ON TUBULAR STEEL POSTS.







URBAN AREA

RURAL AREA

#### POST MOUNTING DETAIL FOR TEMPORARY TRAFFIC CONTROL FIXED MESSAGE SIGNS

WOOD POST **EMBEDMENT DEPTH** 

AREA OF SIGN INSTALLATION (SO. FT.)	D (MIN)
20 OR LESS	4'
GREATER THAN 20	5'

4" X 6" WOOD POST

POST SPACING REQUIREM	NUMBER OF		
L	E	WOOD POSTS REQUIRED	
48" OR LESS AND LESS THAN 20 SO.FT.	-	1	
LESS THAN 60"	12"	2	] <sup>:</sup>
60" TO 120"	L/5	2	
GREATER THAN 120" LESS THAN 168"	12"	3	
168" AND GREATER	12"	4	

SEE NOTE (3)

TEMPORARY TRAFFIC CONTROL FIXED MESSAGE SIGNS

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

D D 15  $\Box$ œ

6

38

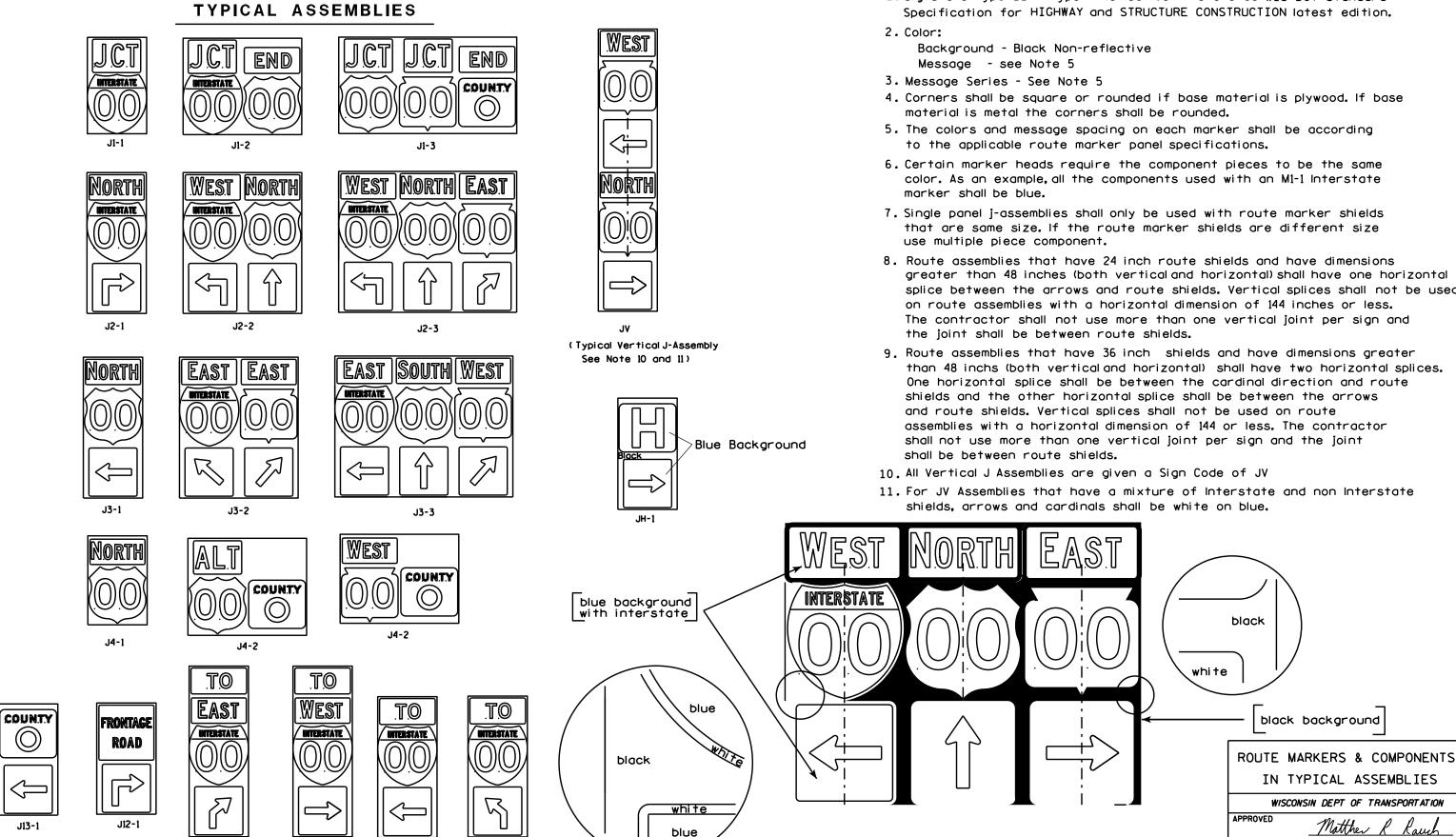
6

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1. Signs are Type II - Type H Reflective - reference WIS DOT Standard

areater 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.



PROJECT NO:

J32-1

J22-1

J23-1

J33-1

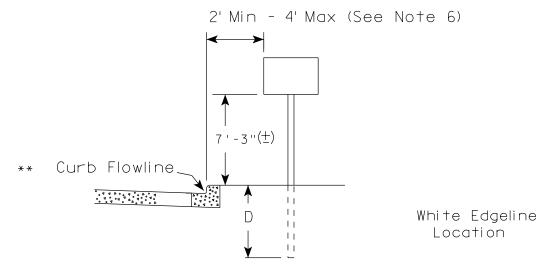
PLOT BY: mscsja

PLATE NO. \_\_A2-15.8

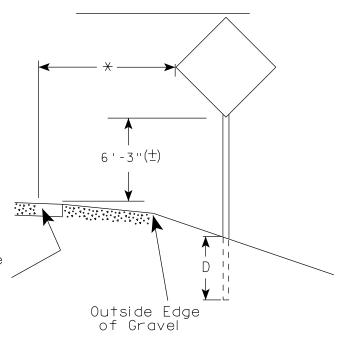
DATE 2/06/14

SHEET NO:

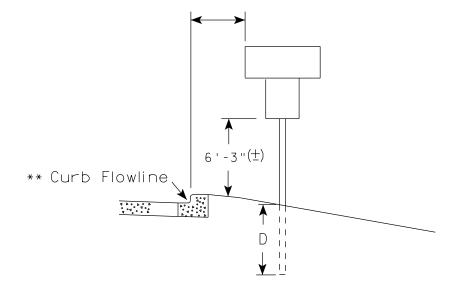
# URBAN ARFA



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. 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.

HWY:

\* 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 BY : mscj9h

#### 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  $7'-3''(\pm)$  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

Area of Sign	
Installation	D
( Sq. Ft.)	(Min)
20 or Less	4'
Greater than 20	5'

TYPICAL INSTALLATION OF PERMANENT TYPE II SIGNS ON SINGLE POSTS

WISCONSIN DEPT OF TRANSPORTATION

SHEET NO:

APPROVED

for State Traffic Engineer

DATE 7/23/15

PLATE NO. <u>A4-3.20</u>

FILE NAME : C:\CAEfiles\Projects\tr\_stdplate\A43.DGN

PROJECT NO:

PLOT DATE: 23-JUL-2015 15:21

COUNTY:

PLOT NAME :

PLOT SCALE: 99.237937:1.000000

WISDOT/CADDS SHEET 42



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



DETAIL OF WOOD 4 X 6 SIGN POST IN BOX-OUT

HWY:



#### PLAN VIEW

COUNTY:

FOR NEW CONCRETE/ASPHALT INSTALLATIONS

SIGN POST BOX-OUTS A4-3B

WISCONSIN DEPT OF TRANSPORTATION

For State Traffic Engineer

DATE 1/27/14 PLATE NO. A4-3B.1

SHEET NO:

FILE NAME : C:\CAEFiles\Projects\tr\_stdplate\A43B.DGN

PROJECT NO:

PLOT DATE: 27-JAN-2014 09:48

PLOT NAME :

PLOT BY: mscsja

PLOT SCALE: 13.659812:1.000000

APPROVED

WISDOT/CADDS SHEET 42

#### 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.

#### URBAN AREA RURAL AREA (See Note 3) 2'Min - 4'Max (See Note 6) ₩E# FF# 6'-3"(±) 6'-3"(±) 7'-3"(±) \*\* Curb \*\*\*\*\ Flowline D **7000** White Edgeline D 11 White Edgeline, Location Outside Edae Location

# 2'Min - 4'Max (See Note 6) 6'-3"(±) Curb Flowline. -11

48" DIAMOND WARNING SIGN

HWY:

# \_ 26" 5 ' - 3 "(±) White Edgeline Location Outside Edge of Gravel 48" DIAMOND WARNING SIGN

COUNTY:

Outside Edge

of Gravel

	SIGN SHAPE OTHER THAN DIAMOND (TWO POSTS REQUIRED)		
	L	E	
<del>* * *</del>	Greater than 48" Less than 60"	12"	
	60" to 120"	L/5	l

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

of Gravel

Area of Sign	
Installation	D
( Sq. Ft.)	(Min)
20 or Less	4'
Greater than 20	5'

TYPICAL INSTALLATION OF TYPE II SIGNS ON MULTIPLE POSTS

Matther

SHEET NO:

FILE NAME : C:\CAEfiles\Projects\tr\_stdplate\A44.DGN

PROJECT NO:

PLOT DATE: 23-JUL-2015 15:23

PLOT SCALE: 107.021305:1.000000

WISDOT/CADDS SHEET 42

PLOT NAME :

PLOT BY: mscj9h

WISCONSIN DEPT OF TRANSPORTATION APPROVED

For State Traffic Engineer

PLATE NO. 44-4.14 DATE 7/23/15



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

Nather R Raw
For State Traffic Engineer

DATE <u>8/11/16</u>

PLATE NO. <u>44-8.8</u>

PROJECT NO:

FILE NAME : C:\CAFfiles\Projects\tr stdplote\A48 DCN

PLOT DATE . 11-416-2016 11:35

PINT RY \* \$\$ nintuser \$\$

SHEET NO:

| | |



PROJECT NO: HWY: COUNTY: SHEET NO: FILE NAME : C:\CAEFiles\Projects\tr\_stdplate\A49.DGN PLOT DATE: 05-FEB-2015 17:09 PLOT BY: mscsja PLOT NAME : PLOT SCALE: 13.659812:1.000000

DATE 2/05/15

PLATE NO. <u>A4-9.9</u>

For State Traffic Engineer

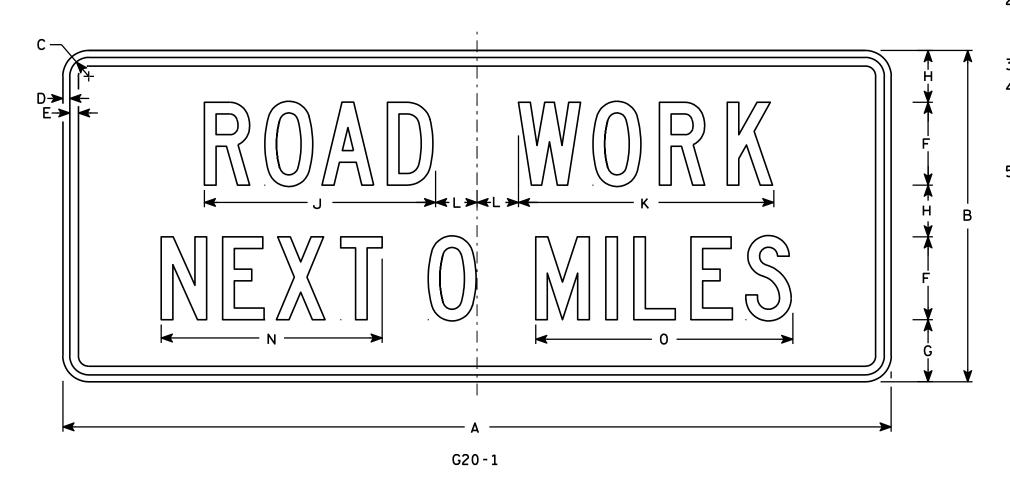


#### NOTES

- 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



7

Metric equivalent for this sign is:

SIZE					
1					
2	1500	mm	X	600	mr
3					
4	1500	mm	X	600	mr
5					

PROJECT NO:

SIZE	Α	В	_ C _	D	Ε	F	G	Н	I	J	K	L	M	N	0	Р	0	R	S	T	U	٧	₩	Х	Y	Z	Area sq. ft.	Area m2
1																												
2	60	24	1 3/8	1/2	5/8	6	4 1/2	3 ¾		16 ¾	18 1/2	3		16	18 %												10	.90
3																												
4	60	24	1 3/8	1/2	5/8	6	4 1/2	3 3/4		16 ¾	18 ½	3		16	18 %												10	.90
5																												

COUNTY:

STANDARD SIGN G20-1

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

Chests J Spane

Ar State Traffic Engineer

DATE 4/8/97 PLATE NO. 620-1.7

DATE 47 07 31

SHEET NO:

HWY:

PLOT NAME :

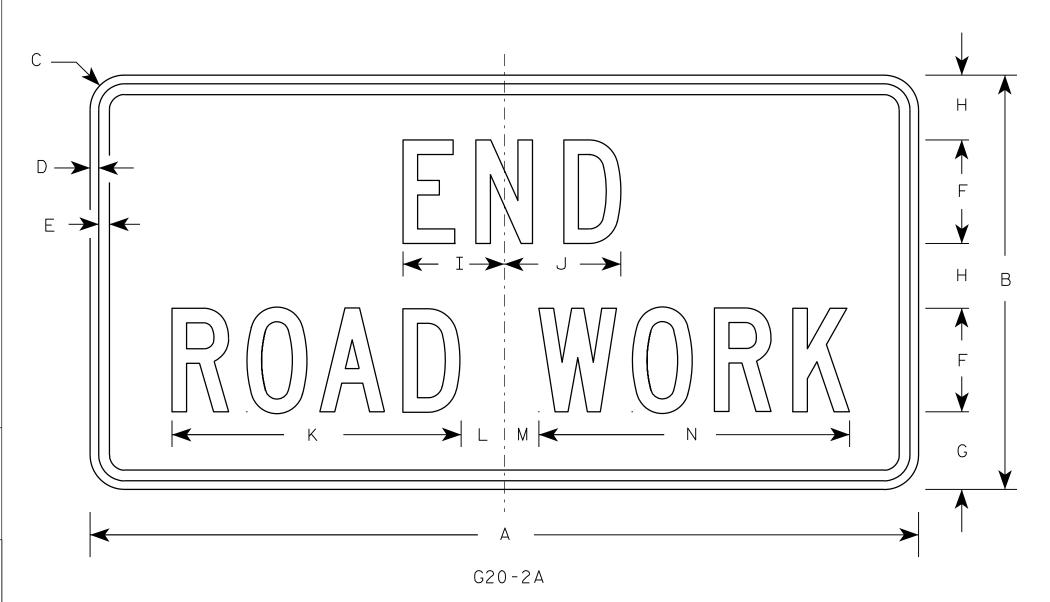
#### NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.

2. Color:

Background - 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	Χ	450	mm
2	1200	mm	Χ	600	mm
3	1200	mm	Χ	600	mm
4	1200	mm	Χ	600	mm
5	1200	mm	Х	600	mm

PROJECT NO:

SIZE	Α	В	С	D	E	F	G	Ι	I	J	K	L	М	N	0	Р	a	R	S	T	U	٧	W	Х	Y	Z	Area sq. ft.	Area m2
1	36	18	1 1/8	3/8	1/2	4	3 3/4	2 ½	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 %	6 3/4	16 ¾	2 1/2	1 3/4	18 ½													8.0	0.72
3	48	24	1 1/2	1/2	5/8	6	4 1/2	3 3/4	5 %	6 3/4	16 ¾	2 1/2	1 3/4	18 ½													8.0	0.72
4	48	24	1 1/2	1/2	5/8	6	4 1/2	3 3/4	5 %	6 3/4	16 ¾	2 ½	1 3/4	18 ½													8.0	0.72
5	48	24	1 1/2	1/2	5/8	6	4 1/2	3 3/4	5 1/8	6 3/4	16 ¾	2 1/2	1 3/4	18 1/2													8.0	0.72

COUNTY:

STANDARD SIGN G20-2A

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

Matthew R Ra

For State Traffic Engineer

DATE 9/30/09 PLATE NO. G20-2A.8

SHEET NO:

FILE NAME : C:\Users\PROJECTS\tr\_stdplate\G202A.DGN

HWY:

PLOT DATE: 30-SEP-2009 09:31

PLOT BY: ditjph

PLOT NAME :

PLOT SCALE: 5.561773:1.000000

WISDOT/CADDS SHEET 42

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#### NOTES

- Sign is Type II see Note 7 reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
- 2. Color:

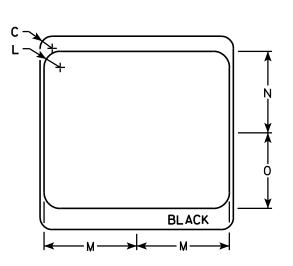
Background - White & Black - See Note 7 Message - Black

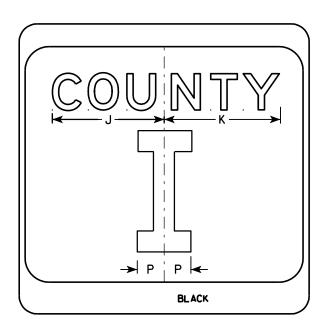
- 3. Message Series see Note 5
- 4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
- 5. Message Series E for 1 letter.

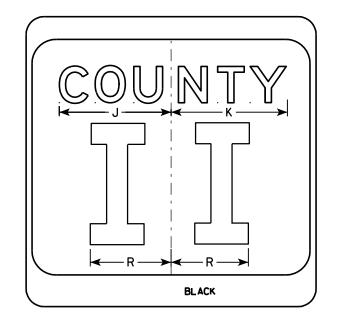
  Message Series D for 2 letters unless
  message is too big then Series C.

  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	Α	В	С	D	E	F	G	Н	I	J	К	L	M	N	0	Р	0	R	S	T	U	٧	W	Х	Y	Z	Area sq. ft.
1																											
2	24		1 1/2			10	3	5 1/8	4 1/8	9 1/4	9 %	2	11 1/2	10 1/8	9 %	2 1/4		6 %									4.0
3	36		2 1/4			16	4	7 %	5 %	12 1/4	12 1/8	3	17 1/8	15 1/4	14	3 %		10									9.0
4	36		2 1/4			16	4	7 %	5 %	12 1/4	12 1/8	3	17 1/8	15 1/4	14	3 %		10									9.0
5	36		2 1/4			16	4	7 %	5 %	12 1/4	12 1/8	3	17 1/8	15 1/4	14	3 3/8		10									9.0
																			_								

COUNTY:

CTH MARKER
M1-5A FOR ASSEMBLIES

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

ForState Traffic Engineer

DATE 9/27/11 PLATE NO. M1-5A.8

SHEET NO:

FILE NAME : C:\Users\PROJECTS\tr\_stdplate\M15A.DGN

PROJECT NO:

**BLACK** 

HWY:

M1-5A

PLOT DATE: 29-SEP-2011 11:25

PLOT NAME :

PLOT BY: mscsja

PLOT SCALE: 5.959043:1.000000

WISDOT/CADDS SHEET 42

- 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

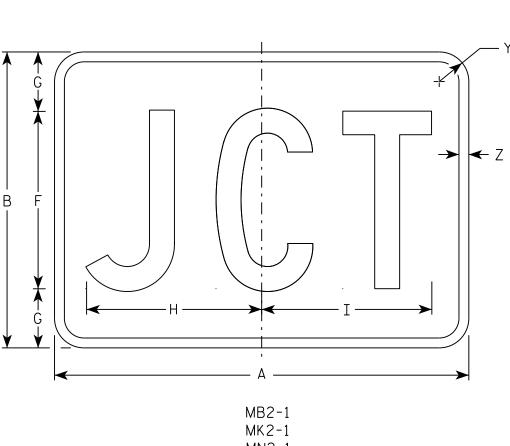
Message - White

MP2-1 Background - White

Message - Blue

MR2-1 Background - Brown

Message - Yellow



MN2-1

MR2-1

SIZE	Α	В	С	D	E	F	G	Н	I	J	K	L	М	N	0	Р	0	R	S	T	J	V	W	X	Υ	Z	Area sq. ft.
1																											
2	21	15	1 1/8	3/8	3/8	9	3	8 1/8	8 %																1 1/2	1/2	2.20
3	30	21	1 1/8	3/8	3/8	13	4	12 1/8	12 3/8																1 1/2	1/2	4.40
4	30	21	1 1/8	3/8	3/8	13	4	12 1/8	12 3/8																1 1/2	1/2	4.40
5	30	21	1 1/8	3/8	3/8	13	4	12 1/8	12 3/8																1 1/2	1/2	4.40

COUNTY:

В

STANDARD SIGN

M2 - 1

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

Matthew & Rauch  $f_{or}$  State Traffic Engineer

DATE 10/15/15

PLATE NO. M2-1.12 Ε

SHEET NO:

FILE NAME · C·\CAFfiles\Projects\tr stdplote\M21 DGN

PROJECT NO:

M2-1

HWY:

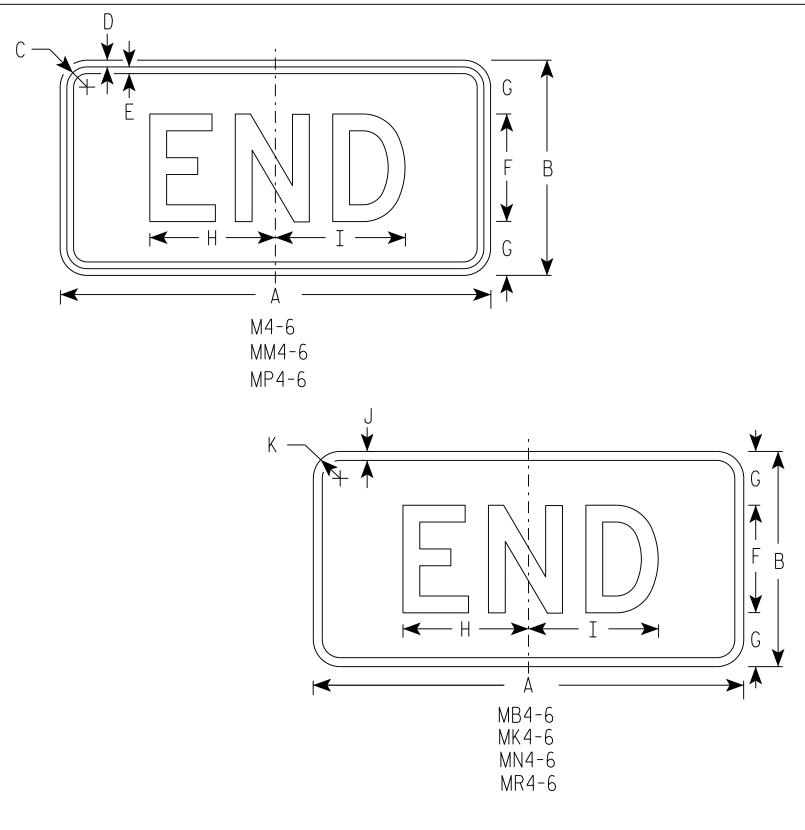
MM2-1

MP2-1

PLOT DATE . 01-DEC-2015 17:54

PLOT BY . \$\$ Diotuser \$\$ PLOT NAME :

PLOT SCALE • 4 864603•1 000000



- 1. Sign is Type II Type H
- 2. Color:

Background - See note 5 Message - See note 5

- 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. M4-6 Background White

Message - Black

MB4-6 Background - Blue

Message - White

MK4-6 Background - Green

Message - White

MM4-6 Background - White

Message - Green

MN4-6 Background - Brown

Message - White

MP4-6 Background - White

Message - Blue

MR4-6 Background - Brown

Message - Yellow

SIZE	Α	В	С	D	E	F	G	Н	I	J	К	L	М	N	0	Р	٥	R	S	Т	U	٧	W	Х	Y	Z	Area sq. ft.
1																											
2	24	12	1 1/8	3/8	3/8	6	3	7	7 1/4	1/2	1 1/2																2.00
3	36	18	1 1/8	3/8	1/2	9	4 1/2	12	11 1/8	1/2	1 1/2																4.5
4	36	18	1 1/8	3/8	1/2	9	4 1/2	12	11 1/8	1/2	1 1/2																4.5
5	36	18	1 1/8	3/8	1/2	9	4 1/2	12	11 1/8	1/2	1 1/2																4.5

STANDARD SIGN M4 - 6

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

Matther & Kaus For State Traffic Engineer

DATE 10/15/15 PLATE NO. M4-7.9

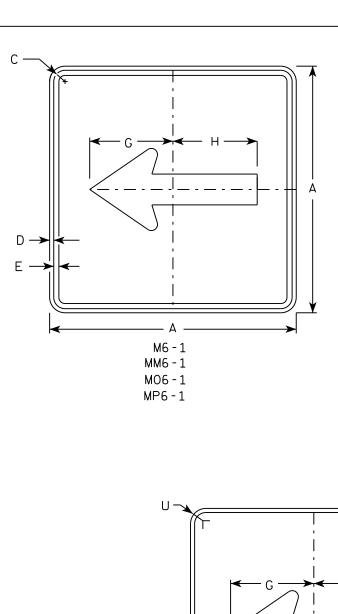
SHEET NO:

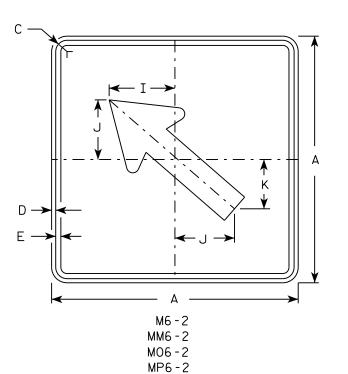
FILE NAME . C.\CAFfiles\Projects\tr stdblote\M46 DGN

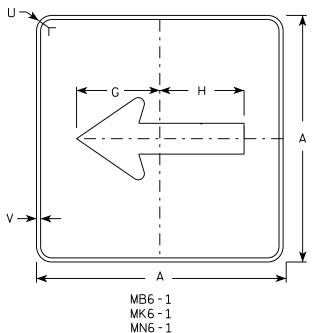
PLOT DATE . 01-DEC-2015 17.55

PLOT BY . \$\$ plotuser \$\$ PLOT NAME :

PLOT SCALE . 5 351066.1 000000

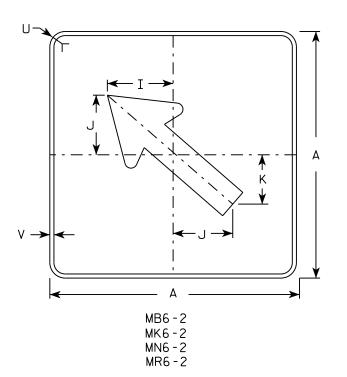






MR6-1

HWY:



#### 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

M06-1 and M06-2 Background - Orange - Type F Reflective

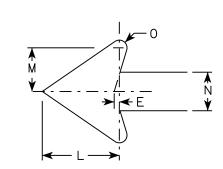
Message - Black

MP6-1 and MP6-2 Background - White

Message - Blue

MR6-1 and MR6-2 Background - Brown

Message - Yellow



SIZE	Α	В	С	D	E	F	G	Н	I	J	K	L	М	N	0	Р	٥	R	S	T	U	٧	W	Х	Y	Z	Area sq. ft.
1 1																											
2	21		1 1/8	3/8	3/8		7 1/2	7 1/8	5 %	5	4 1/4	5 1/4	3	2 %	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 1/8	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 1/8	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 1/8	1/2					6.25

COUNTY:

STANDARD SIGN M6-1 & M6-2 SERIES

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

Matthew & Rawl For State Traffic Engineer

Ε

DATE 10/15/15 PLATE NO. M6-1.15

SHEET NO:

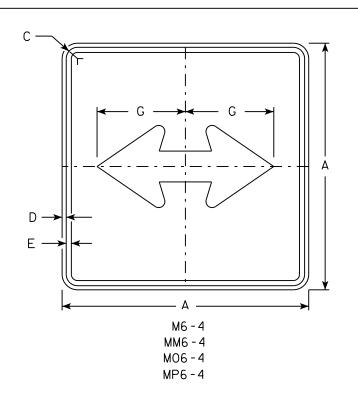
FILE NAME · C·\CAFfiles\Projects\tr stdplote\M61 DCN

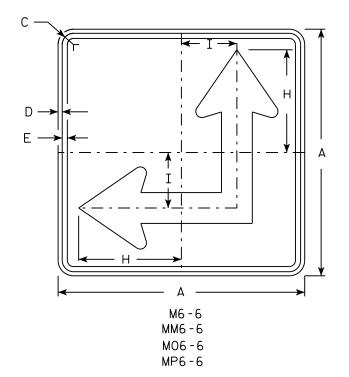
PROJECT NO:

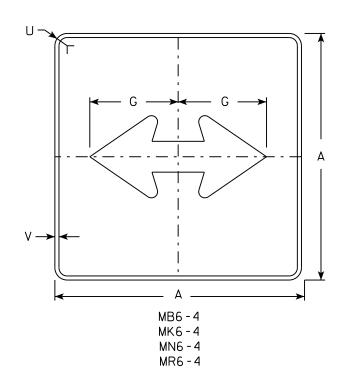
PLOT DATE . 01-DEC-2015 17:57

PIOT RY . \$\$ plotuser \$\$ PIOT NAMF :

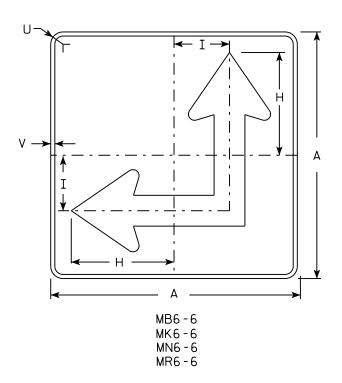
PLOT SCALE . 11 675051.1 000000







HWY:



### 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. M6-4 and M6-6 Background White Message - Black

MB6-4 and MB6-6 Background - Blue

Message - White

MK6-4 and MK6-6 Background - Green

Message - White

and MM6-6 Background - White MM6-4

Message - Green

MN6-4 and MN6-6 Background - Brown

Message - White

M06-4 and M06-6 Background - Orange - Type F Reflective

Message - Black

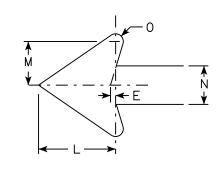
MP6-4 and MP6-6 Background - White

Message - Blue

MR6-4 and MR6-6 Background - Brown

Message - Yellow

5. M6-6R same as M6-6L except arrow points ahead and right.



SIZE	Α	В	С	D	E	F	G	Н	I	J	K	L	М	N	0	Р	a	R	S	T	U	٧	W	X	Y	Z	Area sq. ft.
1																											
2	21		1 1/8	3/8	3/8		7 1/2	8 3/4	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	12 1/2	6 3/4			7 1/2	4 1/4	3 3/4	3/4						1 1/8	1/2					6.25
4	30		1 3/8	1/2	5/8		10 3/4	12 1/2	6 3/4			7 1/2	4 1/4	3 3/4	3/4						1 1/8	1/2					6.25
5	30		1 3/8	1/2	5/8		10 3/4	12 1/2	6 3/4			7 1/2	4 1/4	3 3/4	3/4						1 1/8	1/2					6.25
																											==

COUNTY:

STANDARD SIGN M6-4 & M6-6 SERIES

WISCONSIN DEPT OF TRANSPORTATION

SHEET NO:

APPROVED

DATE 10/15/15

PLATE NO. M6-4.10 Ε

PLOT DATE . 01-DEC-2015 17.58

PLOT RY . \$\$ plotuser \$\$ PLOT NAME :

PLOT SCALE . 11 675051.1 000000

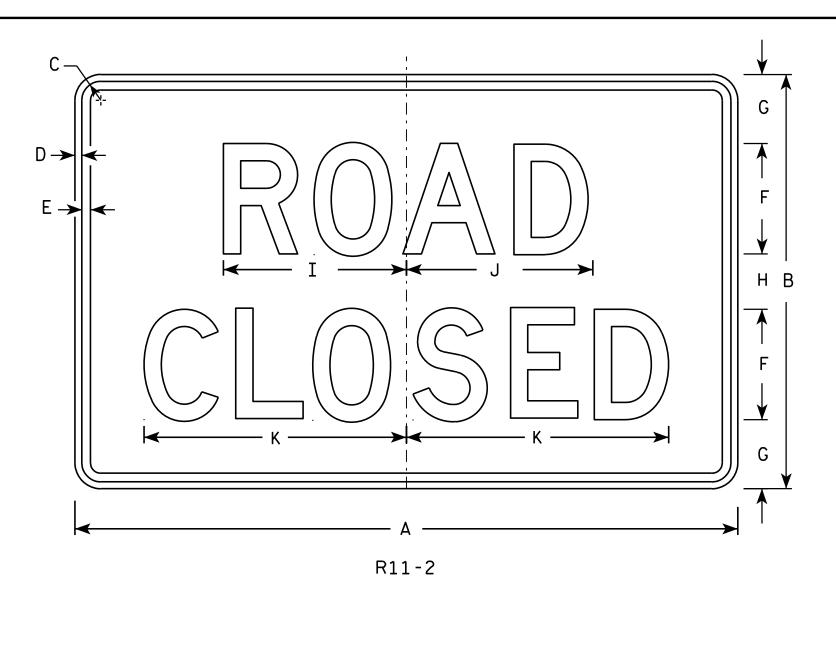
PROJECT NO:

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 R1-1 SIZE A STANDARD SIGN 30 5/8 10 12 1/2 45° 12 3/4 5.18 2S 30 5/8 12 1/2 45° 12 3/4 10 5.18 R1-1 2M 36 3/4 12 15 45° 15 % 7.46 3/4 15 3/8 12 45° 36 15 7.46 WISCONSIN DEPT OF TRANSPORTATION 45° 20 1/2 48 16 20 13.25 APPROVED Matthew & Kauch 5 48 16 20 45° 20 1/2 13.25 3/8 7 3/4 45° 7 3/4 1.86 18 6 For State Traffic Engineer 12 1/4 4 45° 5 1/8 0.78 DATE <u>11/12/15</u> PLATE NO. \_\_\_\_\_R1-1.13 COUNTY: SHEET NO: PROJECT NO: HWY: PLOT SCALE • 4 378143•1 000000

FILE NAME · C·\CAFfiles\Projects\tr stdplote\R11 DGN

PLOT DATE . 01-DEC-2015 18:07

PINT RY . \$\$ plotuser \$\$ PINT NAMF :

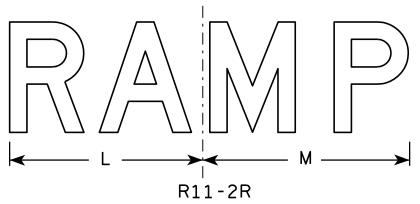


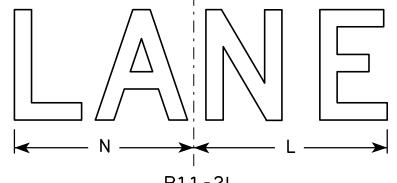
## <u>NOTES</u>

- 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.





R	1	1	-	2	L

PLOT NAME :

SIZ	Έ	A	В	С	D	Ε	F	G	Н	I	J	K	L	M	N	0	Р	0	R	S	T	U	v	W	X	Y	Z	Area sq. ft.
1																												
2	S	48	30	1 3/8	1/2	5/8	8	5	4	13 1/4	13 1/2	19	14	15	13													10.0
21	<b>I</b>	48	30	1 3/8	1/2	5/8	8	5	4	13 1/4	13 ½	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 ½	19	14	15	13													10.0

COUNTY:

STANDARD SIGN R11-2

WISCONSIN DEPT OF TRANSPORTATION

DATE 4/1/11 PLATE NO. R11-2.10

SHEET NO:

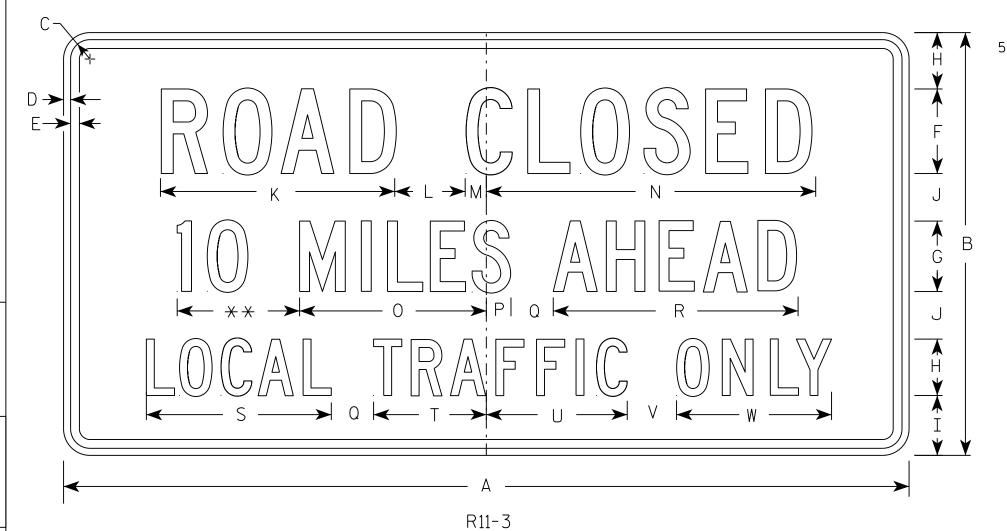
HWY:

PROJECT NO:

- 1. Sign is Type II Type H Reflective
- 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. Substitute appropriate numerals to nearest quarter mile and optically adjust spacing to achieve proper balance.



\*\* See Note 5

Α	В	С	D	E	F	G	Н	I	C	K	L	М	Ν	0	Р	Q	R	S	Т	U	٧	W	Х	Y	Z	Area sq. ft.
36	18	1 3/8	1/2	5/8	4	3	2 1/2	2	2	11 1/8	3	1 1/8	15 1/4	8	1 1/2	2	10 3/4	8 %	4 3/4	6 1/2	2	6 3/4				4.5
60	30	1 3/8	1/2	5/8	6	5	4	4 1/4	3	16 %	5	1 1/2	23	13 1/4	1 3/4	3	17 3/8	13 1/8	8	10	3 ½	11				12.5
60	30	1 3/8	1/2	5/8	6	5	4	4 1/4	3 %	16 %	5	1 1/2	23	13 1/4	1 3/4	3	17 3/8	13 1/8	8	10	3 ½	11				12.5
	60	60 30	60 30 1 3/8	60 30 1 3/8 1/2	60 30 1 3/8 1/2 5/8 60 30 1 3/8 1/2 5/8	60 30 1 3/8 1/2 5/8 6 60 30 1 3/8 1/2 5/8 6	60 30 1 3/8 1/2 5/8 6 5 60 30 1 3/6 1/2 5/6 6 5	60 30 1 3/8 1/2 5/8 6 5 4 60 30 1 3/8 1/2 5/8 6 5 4	60 30 1 3/8 1/2 5/8 6 5 4 4 1/4 60 30 1 3/8 1/2 5/6 6 5 4 4 1/4	36     18     1 3/8     1/2     5/8     4     3     2 1/2     2     2       60     30     1 3/8     1/2     5/8     6     5     4     4 1/4     3 3/8	36     18     1 3/8     1/2     5/8     4     3     2 1/2     2     2     11 1/8       60     30     1 3/8     1/2     5/8     6     5     4     4 1/4     3 3/8     16 5/8	36     18     1 3/8     1/2     5/8     4     3     2 1/2     2     2     11 1/8     3       60     30     1 3/8     1/2     5/8     6     5     4     4 1/4     3 3/8     16 5/8     5	36     18     1 3/8     1/2     5/8     4     3     2 1/2     2     2     11 1/8     3     1 1/8       60     30     1 3/8     1/2     5/8     6     5     4     4 1/4     3 3/8     16 5/8     5     1 1/2	36     18     1 3/8     1/2     5/8     4     3     2 1/2     2     2     11 1/8     3     1 1/8     15 1/4       60     30     1 3/8     1/2     5/8     6     5     4     4 1/4     3 3/8     16 5/8     5     1 1/2     23	36     18     1 3/8     1/2     5/8     4     3     2 1/2     2     2     11 1/8     3     1 1/8     15 1/4     8       60     30     1 3/8     1/2     5/8     6     5     4     4 1/4     3 3/8     16 5/8     5     1 1/2     23     13 1/4	36     18     1 3/8     1/2     5/8     4     3     2 1/2     2     2     11 1/8     3     1 1/8     15 1/4     8     1 1/2       60     30     1 3/8     1/2     5/8     6     5     4     4 1/4     3 3/8     16 5/8     5     1 1/2     23     13 1/4     1 3/4	36     18     1 3/8     1/2     5/8     4     3     2 1/2     2     2     11 1/8     3     1 1/8     15 1/4     8     1 1/2     2       60     30     1 3/8     1/2     5/8     6     5     4     4 1/4     3 3/8     16 5/8     5     1 1/2     23     13 1/4     1 3/4     3	36 18 1 3/8 1/2 5/8 4 3 2 1/2 2 2 11 1/8 3 1 1/8 15 1/4 8 1 1/2 2 10 3/4 60 30 1 3/8 1/2 5/8 6 5 4 4 1/4 3 3/8 16 5/8 5 1 1/2 23 13 1/4 1 3/4 3 17 3/8	36 18 1 3/8 1/2 5/8 4 3 2 1/2 2 2 11 1/8 3 1 1/8 15 1/4 8 1 1/2 2 10 3/4 8 3/8 60 30 1 3/8 1/2 5/8 6 5 4 4 1/4 3 3/8 16 5/8 5 1 1/2 23 13 1/4 1 3/4 3 17 3/8 13 1/8	36 18 1 3/8 1/2 5/8 4 3 2 1/2 2 2 11 1/8 3 1 1/8 15 1/4 8 1 1/2 2 10 3/4 8 3/8 4 3/4 60 30 1 3/8 1/2 5/8 6 5 4 4 1/4 3 3/8 16 5/8 5 1 1/2 23 13 1/4 1 3/4 3 17 3/8 13 1/8 8	36 18 1 3/8 1/2 5/8 4 3 2 1/2 2 2 11 1/8 3 1 1/8 15 1/4 8 1 1/2 2 10 3/4 8 3/8 4 3/4 6 1/2 60 30 1 3/8 1/2 5/8 6 5 4 4 1/4 3 3/8 16 5/8 5 1 1/2 23 13 1/4 1 3/4 3 17 3/8 13 1/8 8 10	36 18 1 3/8 1/2 5/8 4 3 2 1/2 2 2 11 1/8 3 1 1/8 15 1/4 8 1 1/2 2 10 3/4 8 3/8 4 3/4 6 1/2 2 60 30 1 3/8 1/2 5/8 6 5 4 4 1/4 3 3/8 16 5/8 5 1 1/2 23 13 1/4 1 3/4 3 17 3/8 13 1/8 8 10 3 1/2	36 18 1 3/8 1/2 5/8 4 3 2 1/2 2 2 11 1/8 3 1 1/8 15 1/4 8 1 1/2 2 10 3/4 8 3/8 4 3/4 6 1/2 2 6 3/4 60 30 1 3/8 1/2 5/8 6 5 4 4 1/4 3 3/8 16 5/8 5 1 1/2 23 13 1/4 1 3/4 3 17 3/8 13 1/8 8 10 3 1/2 11	36 18 1 3/8 1/2 5/8 4 3 2 1/2 2 2 11 1/8 3 1 1/8 15 1/4 8 1 1/2 2 10 3/4 8 3/8 4 3/4 6 1/2 2 6 3/4 60 30 1 3/8 1/2 5/8 6 5 4 4 1/4 3 3/8 16 5/8 5 1 1/2 23 13 1/4 1 3/4 3 17 3/8 13 1/8 8 10 3 1/2 11	36 18 1 3/8 1/2 5/8 4 3 2 1/2 2 2 11 1/8 3 1 1/8 15 1/4 8 1 1/2 2 10 3/4 8 3/8 4 3/4 6 1/2 2 6 3/4 60 30 1 3/8 1/2 5/8 6 5 4 4 1/4 3 3/8 16 5/8 5 1 1/2 23 13 1/4 1 3/4 3 17 3/8 13 1/8 8 10 3 1/2 11	36 18 1 3/8 1/2 5/8 4 3 2 1/2 2 2 11 1/8 3 1 1/8 15 1/4 8 1 1/2 2 10 3/4 8 3/8 4 3/4 6 1/2 2 6 3/4 60 30 1 3/8 1/2 5/8 6 5 4 4 1/4 3 3/8 16 5/8 5 1 1/2 23 13 1/4 1 3/4 3 17 3/8 13 1/8 8 10 3 1/2 11

COUNTY:

STANDARD SIGN R11-3

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

Matther R DATE 7/28/16 PLATE NO. R11-3.7

SHEET NO:

Ε

FILE NAME + C+\CAFfiles\Projects\tr stdolote\R113 DGN

PROJECT NO:

HWY:

PLOT DATE . 28-. III -2016 16.25

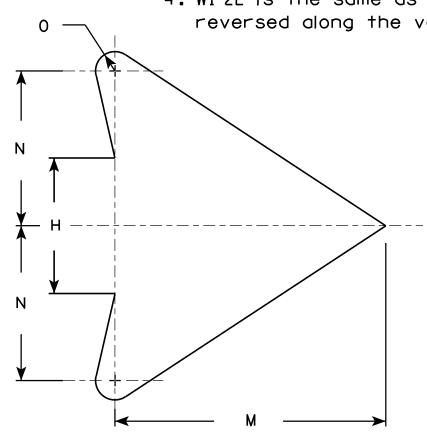
PINT RY . \$\$ plotuser \$\$ PINT NAME :

PLOT SCALE . 6 810445.1 000000

- 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.



								W	1-2R													<u> </u>	11011	DLIA	<u></u>		
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
					•	·		•	•														•				•

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:

- 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.

c	
	G
K I	_ ¥ B
$\left[ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	
W1-6	

SIZE		Α	В	С	D	E	F	G	Н	I	J	K	L	M	N	0	Р	0	R	S	Т	U	٧	W	Х	Y	Z	Area sq. ft.
1		36	18	1 1/8	3⁄8	3/8		9	10	¾	5 %	4 3/4	2 3/8	14 %	29 1/4													4.5
2S	, 4	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	4	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 %	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	9	96	48	2 1/4	3/4	1		24	26 1/2	2	15	13	6 1/2	39	78													32.0

COUNTY:

STANDARD SIGN W1-6

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Ma

For State Traffic Engineer

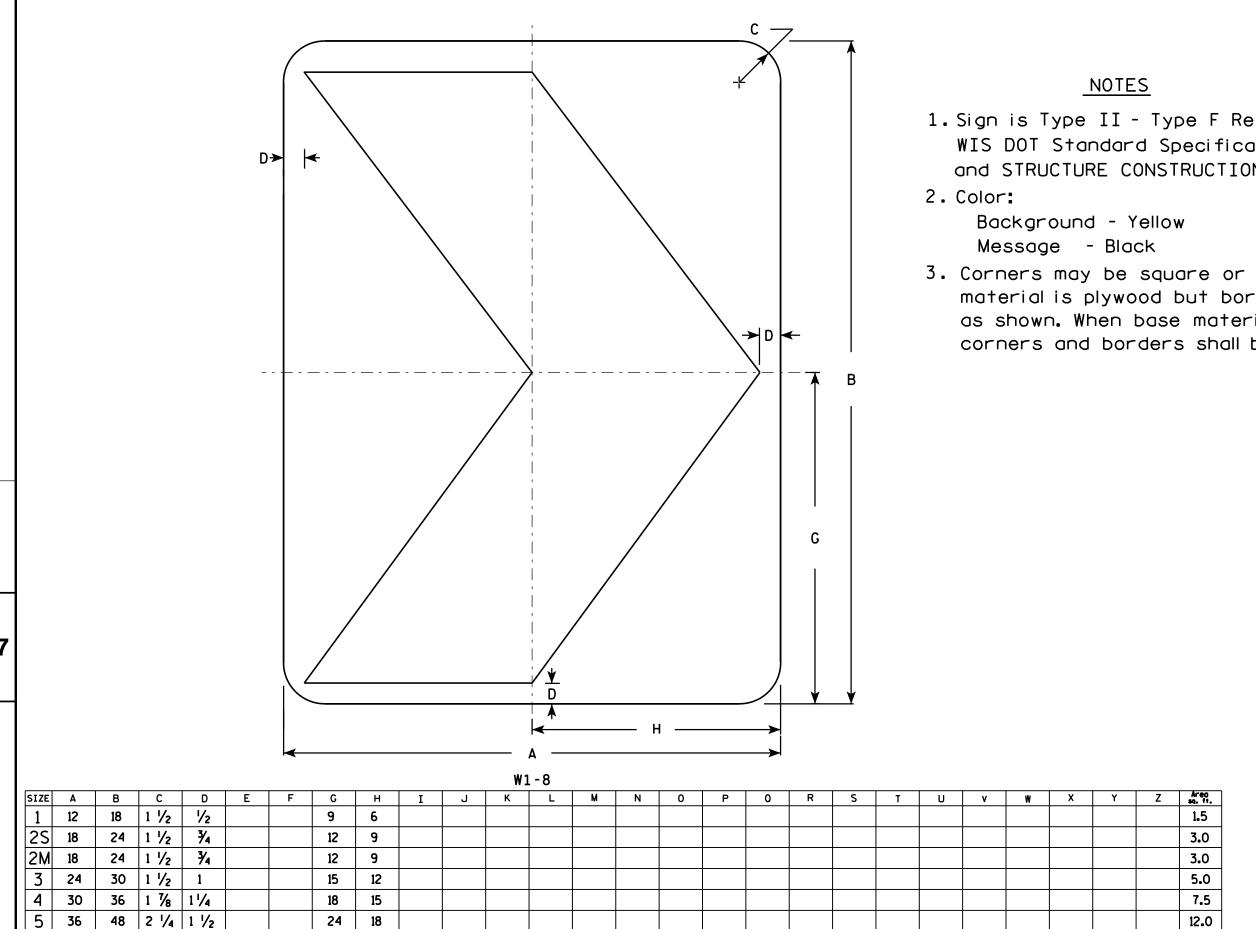
DATE 6/7/10 PLATE NO. W1-6.8

SHEET NO:

PROJECT NO:

HWY:

PLOT NAME :



1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.

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.

> STANDARD SIGN W1 - 8

WISCONSIN DEPT OF TRANSPORTATION

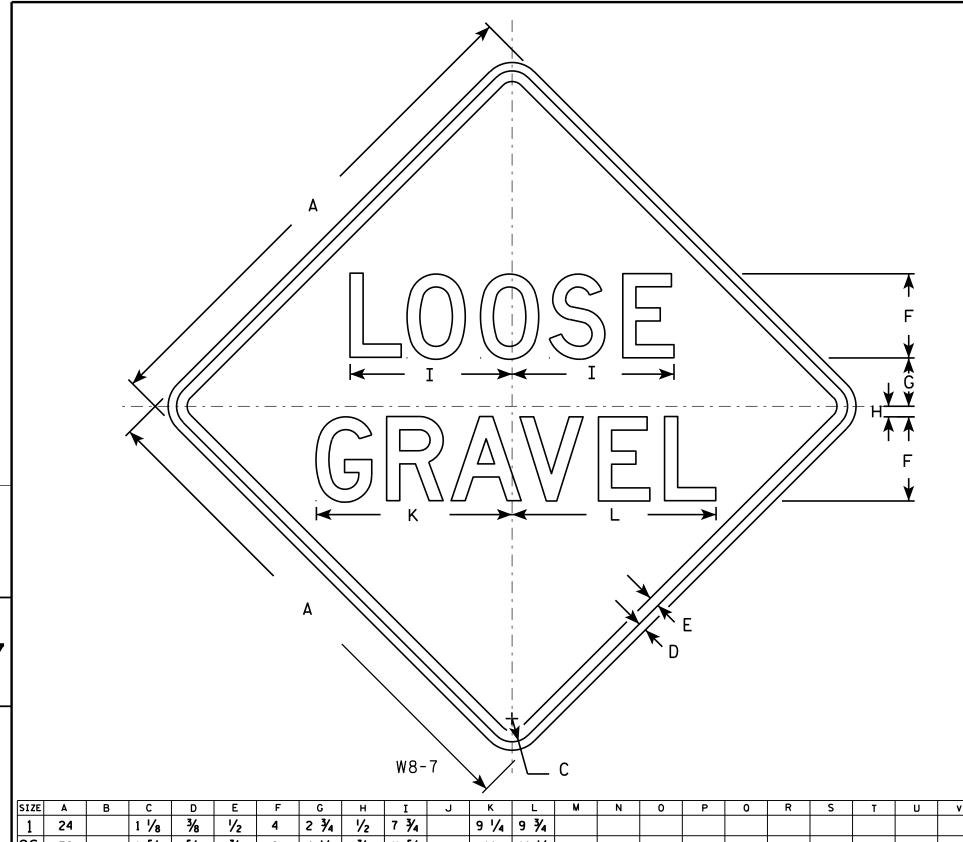
APPROVED

For State Traffic Engineer PLATE NO. W1-8.6

DATE 6/7/10

SHEET NO:

PROJECT NO:



- 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 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.

Areg sq. ft. 4.0 2S 1 5/8 3/4 4 1/8 <del>3</del>/<sub>4</sub> 11 5/<sub>8</sub> 5/8 36 14 14 1/2 9.0 2M 1 5/8 3/4 4 1/8 <del>3</del>/<sub>4</sub> 11 5/<sub>8</sub> 5/8 36 14 1/2 9.0 3 36 1 1/8 5/8 3/4 4 1/8 3/<sub>4</sub> | 11 5/<sub>8</sub> 14 1/2 9.0 14 ₹4 4 1 % 5/8 4 1/8 3/<sub>4</sub> | 11 5/<sub>8</sub> 14 1/2 36 14 9.0 5 5 1/2 18 % 19 % 3/4 48 2 1/4 15 1/2 16.0

COUNTY:

STANDARD SIGN W8 - 7

WISCONSIN DEPT OF TRANSPORTATION

Matther R Rauch State Traffic Engineer
/12 PLATE NO. W8-7.7 DATE 5/30/12

SHEET NO:

PLOT DATE: 30-MAY-2012 13:41 PLOT NAME : PLOT BY: mscj9h

PROJECT NO:

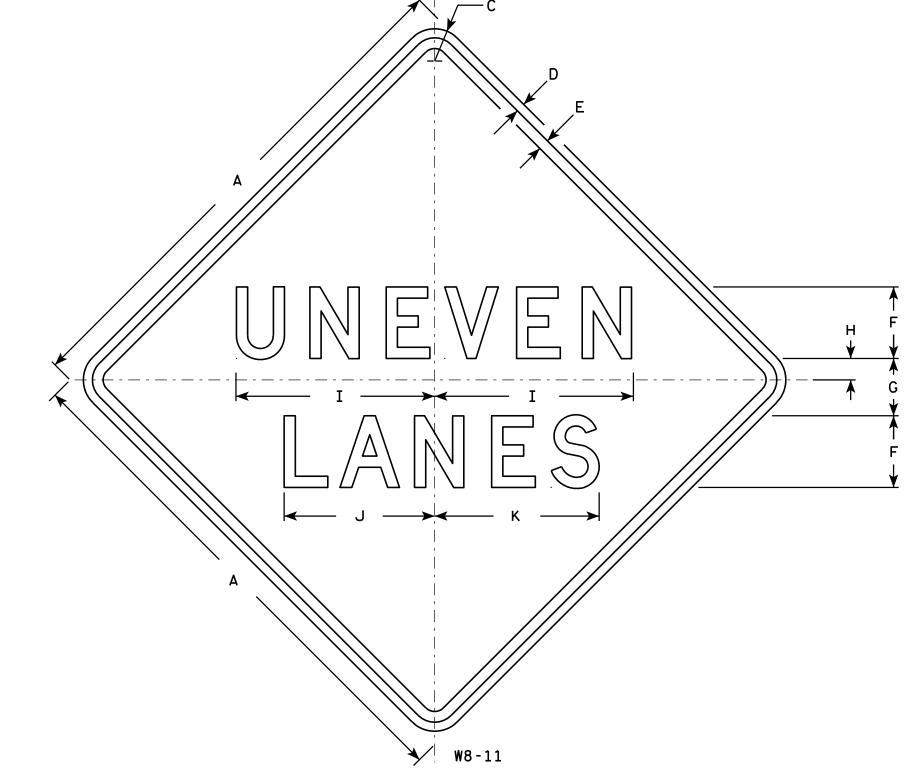
HWY:



- 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 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	Α	В	С	D	Ε	F	G	Н	I	J	K	L	М	N	0	Р	0	R	S	T	U	٧	₩	X	Y	Z	Area sq. ft.
1																											
25	36		1 %	5/8	₹4	5	4	1 1/2	13 %	10 1/2	11 1/2																9.0
2M	36		1 %	5/8	₹4	5	4	1 1/2	13 %	10 1/2	11 1/2																9.0
3																											
4	36		1 %	5/8	₹4	5	4	1 1/2	13 %	10 1/2	11 1/2																9.0
5	48		2 1/4	3/4	1	7	5	2	18 1/2	14	15 %																16.0

COUNTY:

STANDARD SIGN W8-11

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

Matthew R hawk

For State Traffic Engineer

DATE 3/22/11 PLATE NO. W8-11.4

SHEET NO:

FILE NAME : C:\Users\PROJECTS\tr\_stdplate\W811.DGN

PROJECT NO:

HWY:

PLOT DATE: 22-MAR-2011 14:12

PLOT BY: mscj9h

PLOT NAME :

PLOT SCALE: 6.703924:1.000000

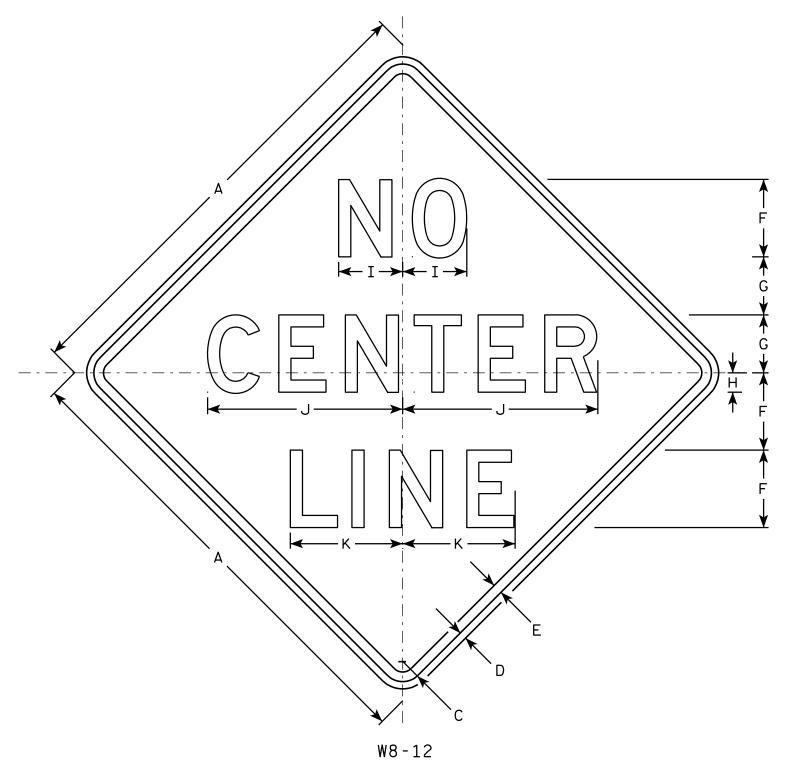
WISDOT/CADDS SHEET 42

# <u>NOTES</u>

- 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 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	Α	В	С	D	E	F	G	Н	I	J	K I	. M	N	0	Р	0	R	S	T	U	٧	W	X	Y	Z	Areo sq. ft.
1																										
2S	36		1 %	5/8	3/4	6	4 1/2	1 1/2	5 1/8	16	9															9.0
2M	36		1 %	5⁄8	3/4	6	4 1/2	1 1/2	5 1/8	16	9															9.0
3	48		2 1/4	3/4	1	8	6	2	6 %	20 1/4	11 5/8															16.0
4	48		2 1/4	3/4	1	8	6	2	6 %	20 1/4	11 5/8															16.0
5	48		2 1/4	3/4	1	8	6	2	6	20 1/4	11 5/8															16.0

COUNTY:

STANDARD SIGN W8-12

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

For State Traffic Engineer

DATE 8/24/10

PLATE NO. W8-12.3

SHEET NO:

FILE NAME : C:\Users\PROJECTS\tr\_stdplate\W812.DGN

PROJECT NO:

HWY:

PLOT DATE: 24-AUG-2010 13:34

PLOT BY: dotsja

PLOT NAME :

PLOT SCALE: 9.931739:1.000000

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.

W11-6	

3/8 9 1/2 4 1/2 10 1/4 1 1/8 24 4.0 25 11 1/2 5 5/8 12 3/4 1 3/8 1/2 5/8 6.25 30 2M 1 3/8 1/2 11 1/2 5 5/8 12 3/4 30 6.25 3 1 1/8 5/8 3/4 14 1/8 6 3/4 15 1/4 9.0 36 4 3/4 48 2 1/4 19 9 20 1/2 16.0 5

COUNTY:

STANDARD SIGN W11-6

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matther R Rauch ∱er State Traffic Engineer DATE 3/13/13 PLATE NO. W11-6.8

SHEET NO:

FILE NAME : C:\CAEFiles\Projects\tr\_stdplate\W116.DGN

HWY:

PROJECT NO:

PLOT DATE: 13-MAR-2013 12:57

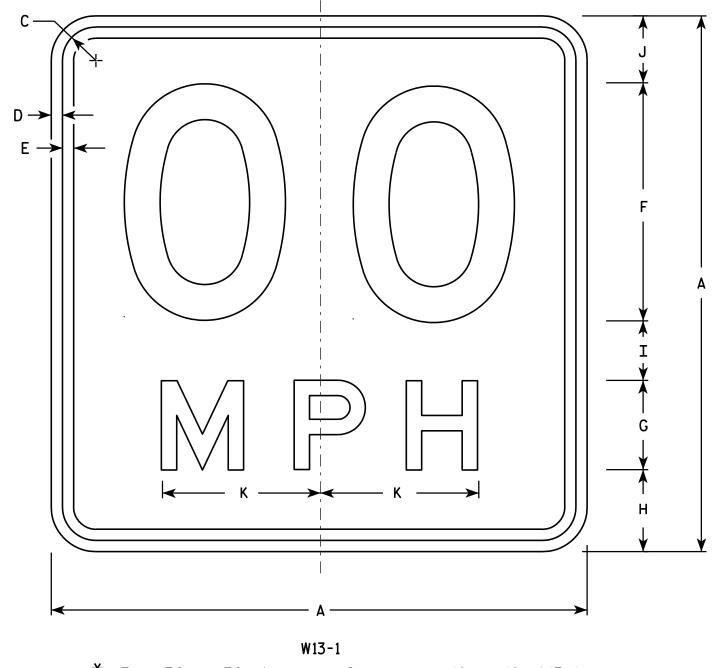
PLOT BY : mscj9h

PLOT NAME :

PLOT SCALE : 5.954276:1.000000

WISDOT/CADDS SHEET 42

Ε



- 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

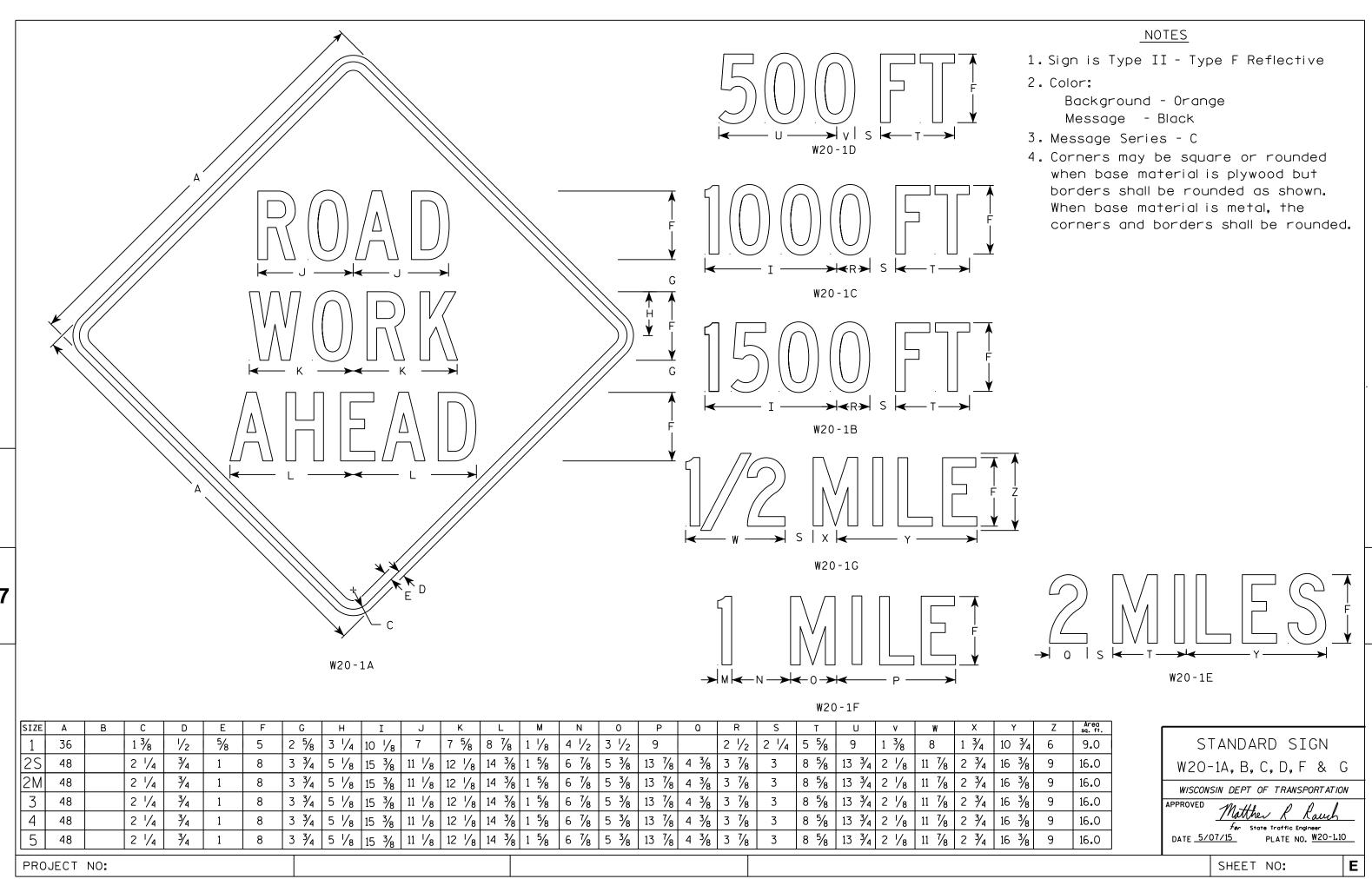
PLOT DATE: 31-MAY-2012 10:57

PLOT NAME :

PLOT BY: mscsja

PLOT SCALE: 3.225232:1.000000

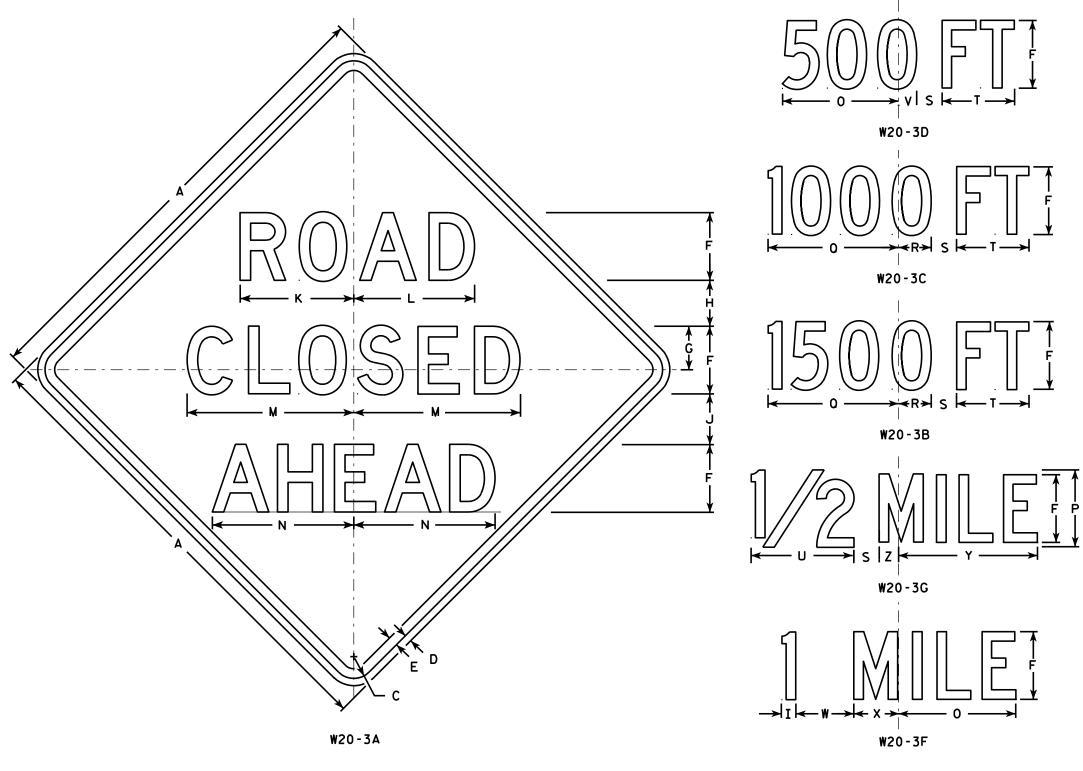
WISDOT/CADDS SHEET 42



FILE NAME . C.\CAFfiles\Projects\tr stdolote\W201 DCN

PLOT DATE . 01-DEC-2015 18.24

PIOT RY \* \$\$ plotuser \$\$



- 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. Lines 1 and 2 are Series D. Line 3 is Series D for AHEAD and Series C for all other distances.

1 % 5/8 ¾ 8 3/8 8 7/8 12 1/2 5 % 1 3/8 4 1/2 36 3 1/2 10 3/4 1 3/4 8 4 \( \frac{5}{8} \) 14 \( \frac{3}{8} \) 2 \( \frac{3}{8} \) 16.0 3/4 1 1/2 | 5 1/4 | 11 3/4 | 12 1/2 | 17 1/4 | 14 5/8 | 7 1/2 10 5/8 1 7/8 2M 3/4 4 \\ 14 \\ 38 \ 2 \\ 38 \ 16.0 48 | 5 1/4 | 11 3/4 | 12 1/2 | 17 1/4 | 14 5/8 | 7 1/2 10 % 1 % 4 1/2 4 3/4 1 1/2 5 1/4 11 3/4 12 1/2 17 1/4 14 5/8 3/4 13 1/2 3 3/8 2 5/8 7 1/2 10 5/8 1 3/8 2 1/4 4 % | 14 % | 2 % | 16.0 48 3/4 4 1/2 4 3/4 1 1/2 5 1/4 11 3/4 12 1/2 17 1/4 14 5/8 13 1/2 3 3/8 2 5/8 4 \\ 14 \\ 38 \ 2 \\ 38 \ 16.0 7 1/2 10 5/8 1 7/8 48 5 4 5/8 14 3/8 2 3/8 16.0 3/4 2 1/4 4 1/2 | 4 3/4 | 1 1/2 | 5 1/4 | 11 3/4 | 12 1/2 | 17 1/4 | 14 5/8 | 13 1/2 3 3/8 2 5/8 7 1/2 10 5/8 1 3/8 48

COUNTY:

STANDARD SIGN W20-3A, B, C, D, F & G

WISCONSIN DEPT OF TRANSPORTATION

For State Traffic Engineer DATE 3/18/11

PLATE NO. W20-3.7

SHEET NO:

PROJECT NO: FILE NAME : C:\Users\PROJECTS\tr\_stdplate\W203.DGN HWY:

PLOT DATE: 18-MAR-2011 12:08

PLOT BY: mscj9h

PLOT NAME :

PLOT SCALE: 9.931739:1.000000

WISDOT/CADDS SHEET 42



# Wisconsin Department of Transportation

Dedicated people creating transportation solutions through innovation and exceptional service.

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