Typical Sections and Details

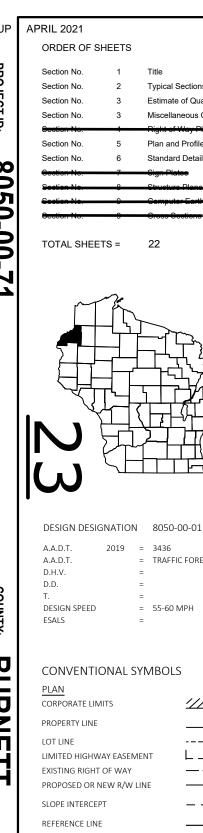
Estimate of Quantities

Plan and Profile

22

Miscellaneous Quantities

Standard Detail Drawings



2019

EXISTING CULVERT

PROPOSED CULVERT (Box or Pipe)

COMBUSTIBLE FLUIDS

WOODED OR SHRUB AREA

MARSH AREA

= 3436

= 55-60 MPH

= TRAFFIC FORECAST DATA UNAVAILABLE

# STATE OF WISCONSIN **DEPARTMENT OF TRANSPORTATION**

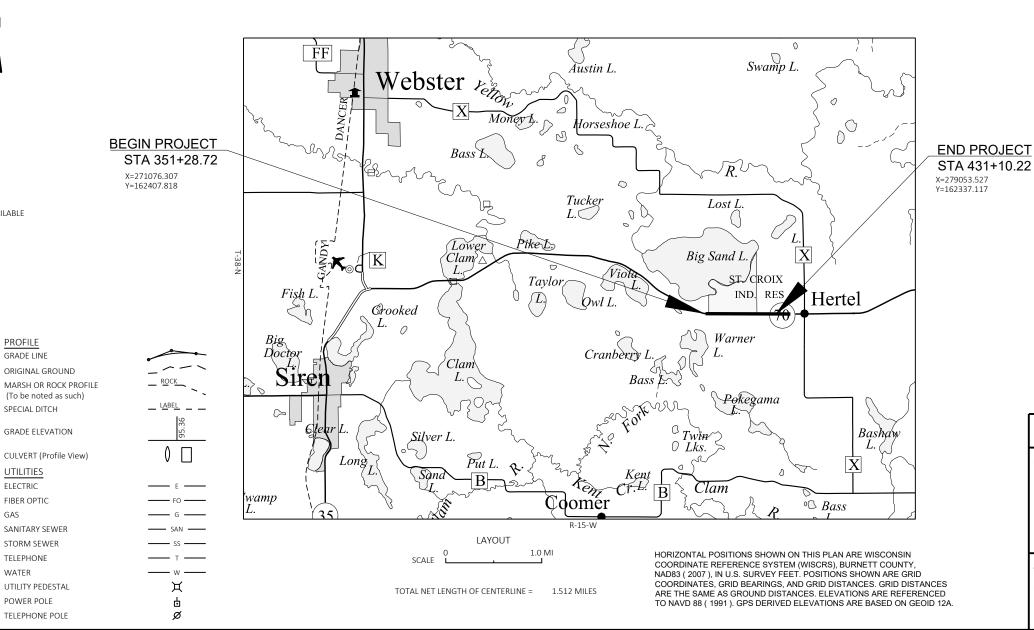
PLAN OF PROPOSED IMPROVEMENT

# **SIREN - SPOONER**

FOSMO DRIVE TO WEST HERTEL DRIVE

**STH 70 BURNETT** 

STATE PROJECT NUMBER 8050-00-71



STATE PROJECT CONTRACT PROJECT 8050-00-71 WISC 2021270

FEDERAL PROJECT

### STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

PREPARED BY NW REGION Surveyor Designer Project Manage ANDREW STENSLAND, PE

PPROVED FOR THE DEPARTMENT

Andrew Stensland

Ε

FILE NAME : C:\USERS\DOTAYP\DESKTOP\80500001\SHEETSPLAN\010101\_TI.DWG

GRADE LINE

UTILITIES

FIBER OPTIC

TELEPHONE

POWER POLE

ELECTRIC

10/14/2020 11:52 AM

PEKURI, ALANNA J

PLOT NAME

#### **GENERAL NOTES**

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

ACCESS TO ALL RESIDENCES AND BUSINESSES SHALL BE MAINTAINED DURING CONSTRUCTION.

AS-BUILTS USED FOR PLAN DEVELOPMENT

PROJECT NO: 8050-10-60, CONSTRUCTION YEAR: 2009 PROJECT NO: PRIVATE PROJECT PLAN NUMBER S0634 6-16-00115, CONSTRUCTION YEAR: 2017

#### TRAFFIC CONTROL GENERAL NOTES

PLACE TRAFFIC CONTROL SIGNS PER SDD "TRAFFIC CONTROL ADVANCE WARNING SIGNS 45 MPH OR GREATER, TWO WAY UNDIVIDED ROAD OPEN TO TRAFFIC" AT BEGIN AND END PROJECT LIMITS AND AT SIDEROADS AS APPLICABLE CONTAINED WITHIN THE SDD FOR SIDEROAD APPROACHES.

FOR TRAFFIC CONTROL SIGNS THAT WILL BE IN PLACE LONGER THAN 7 DAYS, USE SDD "TEMPORARY TRAFFIC CONTROL, SIGN MOUNTING."

PLACE TRAFFIC CONTROL FOR SHOULDER WORK PER SDD "TRAFFIC CONTROL, WORK ON SHOULDER OR PARKING LANE. UNDIVIDED ROADWAY" AS APPLICABLE CONTAINED WITHIN THE SDD.

FOR LANE CLOSURES, SUCH AS WHEN MILLING OR PAVING, PLACE TRAFFIC CONTROL PER SDD "TRAFFIC CONTROL FOR LANE CLOSURE WITH FLAGGING OPERATION" AS APPLICABLE CONTAINED WITHIN THE SDD.

WHEN PLACING PAVEMENT MARKING. USE SDD "MOVING PAVEMENT MARKING OPERATION TWO-LANE TWO-WAY ROADWAY".

#### UTILITIES

DAIRYLAND POWER COOPERATIVE-ELECTRICITY **ROB MALY** 

3200 EAST AVE SOUTH LA CROSSE, WI 54602 PHONE: 608-787-1427

CELL PHONE: 608-518-2633 EMAIL: rob.maly@dairylandpower.com

POLK-BURNETT ELECTRIC COOPERATIVE-ELECTRICITY

STEVE JENSSEN 7298 ST. RD 70 WEBSTER, WI 54872 PHONE: 715-646-2191 CELL PHONE: 715-553-1394 EMAIL: sjenssen@polkburnett.com

SIREN COMMUNICATIONS INC-COMMUNICATION LINE

KENT BASSETT 7723 MAIN STREET SIREN, WI 54872 PHONE: 715-349-2224 EMAIL: Kentbass@sirentel.net

WE ENERGIES GAS STEVEN CHAVERS 104 W. SOUTH STREET RICE LAKE, WI 54868 PHONE: 715-234-9605 CELL PHONE: 715-213-4327 EMAIL: Steven.chavers@we-energies.com DNR

DNR HAISON

AMY CRONK - ENVIRONMENTAL ANALYSIS AND REVIEW SPECIALIST WDNR - NORTHWEST DISTRICT HEADQUARTERS 810 WEST MAPLE STREET SPOONER, WI 54801

PHONE: 715-635-4229 EMAIL: AMY.CRONK@WISCONSIN.GOV

#### DESIGN CONTACT

WISCONSIN DEPARTMENT OF TRANSPORTATION ALANNA J. PEKURI - PROJECT LEADER 1701 N. 4TH STREET SUPERIOR, WI 54880 TELEPHONE: 715-392-7972 EMAIL: alanna.pekuri@dot.wi.gov



WISDOT/CADDS SHEET 42

Ε PROJECT NO: 8050-00-71 HWY: STH 70 COUNTY: BURNETT **GENERAL NOTES SHEET** 

10/27/2020 4:32 PM

PLOT BY:

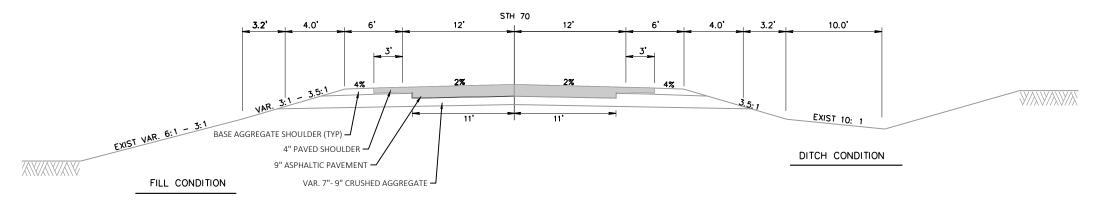
PLOT DATE :

LAYOUT NAME - Plan 1 IN 100 FT

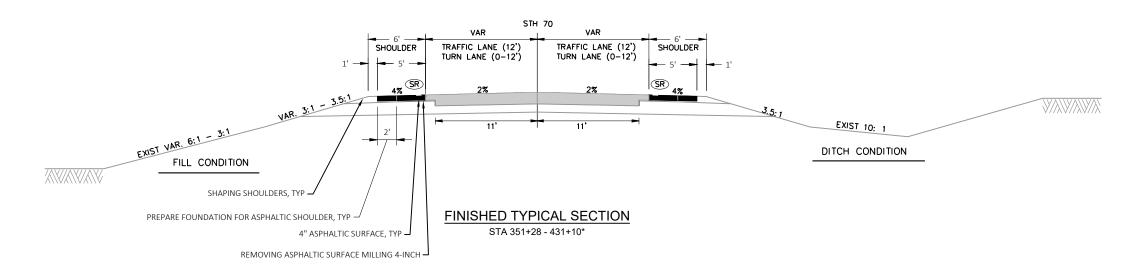
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PEKURI, ALANNA J PLOT NAME PLOT SCALE : 1 IN:100 FT



### **EXISTING TYPICAL SECTION** STA 351+28 - 431+10



NOTES

SR STA 351+60 - STA 430+60: ASPHALTIC SHOULDER RUMBLE STRIPS 2-LANE RURAL. SEE SDD FOR "2-LANE RURAL SHOULDER RUMBLE STRIPS, MILLING" FOR ADDITIONAL INFORMATION.

\* STATION EXCEPTION FOR IMPROVEMENTS 384+82 LT TO 401+40 LT

PROJECT NO: Ε 8050-00-71 HWY: STH 70 COUNTY: BURNETT TYPICAL SECTIONS SHEET PLOT BY: PEKURI, ALANNA J PLOT NAME : PLOT SCALE : 1 IN:10 FT FILE NAME : 10/27/2020 4:14 PM

N:\PD\$\C3D\80500001\\$HEET\$PLAN\020301\_T\$.DWG LAYOUT NAME - 020301-ts 1in-10ft

WISDOT/CADDS SHEET 42

# Estimate Of Quantities Page 1

					8050-00-71
Line	Item	Item Description	Unit	Total	Qty
0002	204.0120	Removing Asphaltic Surface Milling	SY	4,640.000	4,640.000
0004	211.0400	Prepare Foundation for Asphaltic Shoulders	STA	144.000	144.000
0006	213.0100	Finishing Roadway (project) 01. 8050-00-71	EACH	1.000	1.000
8000	305.0500	Shaping Shoulders	STA	144.000	144.000
0010	455.0605	Tack Coat	GAL	464.000	464.000
0012	465.0105	Asphaltic Surface	TON	1,682.000	1,682.000
0014	465.0425	Asphaltic Shoulder Rumble Strips 2-Lane Rural	LF	13,459.000	13,459.000
0016	618.0100	Maintenance And Repair of Haul Roads (project) 01. 8050-00-71	EACH	1.000	1.000
0018	619.1000	Mobilization	EACH	1.000	1.000
0020	642.5001	Field Office Type B	EACH	1.000	1.000
0022	643.0300	Traffic Control Drums	DAY	3,531.000	3,531.000
0024	643.0715	Traffic Control Warning Lights Type C	DAY	141.000	141.000
0026	643.0900	Traffic Control Signs	DAY	705.000	705.000
0028	643.5000	Traffic Control	EACH	1.000	1.000
0030	646.1020	Marking Line Epoxy 4-Inch	LF	14,076.000	14,076.000
0032	650.5000	Construction Staking Base	LF	14,076.000	14,076.000
0034	650.8000	Construction Staking Resurfacing Reference	LF	14,076.000	14,076.000
0036	650.9910	Construction Staking Supplemental Control (project) 01. 8050-00-71	LS	1.000	1.000
0038	ASP.1T0A	On-the-Job Training Apprentice at \$5.00/HR	HRS	300.000	300.000
0040	ASP.1T0G	On-the-Job Training Graduate at \$5.00/HR	HRS	300.000	300.000

3

### <u>PAVEMENT</u>

STATION TO	STATION	LOCATION	204.0120  REMOVING ASPHALTIC SURFACE MILLING SY	211.0400 PREPARE FOUNDATION FOR ASPHALTIC SHOULDERS STA	213.0100.01 FINISHING ROADWAY (PROJECT) (80500071) EACH	305.0500 SHAPING SHOULDERS STA	455.0605 TACK COAT GAL	465.0105  ASPHALTIC SURFACE TON	465.0425 ASPHALTIC SHOULDER RUMBLE STRIPS 2- LANE RURAL LF	REMARKS
										REMOVING EXCESS SHOULDER MATERIAL INCIDENTAL TO PREPARE FOUNDATION FOR
351+28.72 -	431+10.22	R	2,612	80	-	80	261	947	7,607	ASPHALTIC SHOULDERS
351+28.72 -	431+10.22	L	2,027	64	-	64	203	735	5,852	
351+28.72 -	431+10.22	BOTH			1					TYPE 1 RUMBLE STRIPS TO BE INSTALLED
		TOTAL 0010	4.640	144	1	144	464	1 682	13 459	

TRAFFIC CONTROL

				643	.0300		.0715 CONTROI	643.0	900	643.5000
				TRAFFIC	CONTROL		IGHTS TYPE	TRAI	EEIC	
					JMS		C	CONTRO		TRAFFIC CONTROL
				DIN	JIVIS		C	COMINO	LOIGINO	INAFFIC CONTINUE
STATION	TO	STATION	LOCATION	EACH	DAY	EACH	DAY	EACH	DAY	EACH
351+28.72	-	431+10.22	LT	66	1,547	3	71	-	-	-
351+28.72	-	431+10.22	RT	85	1,983	3	71	-	-	-
351+28.72	-	431+10.22	BOTH	-	-		-	15	705	1
			TOTAL 0010	•	3,531	-	141	-	705	1

# PAVEMENT MARKING

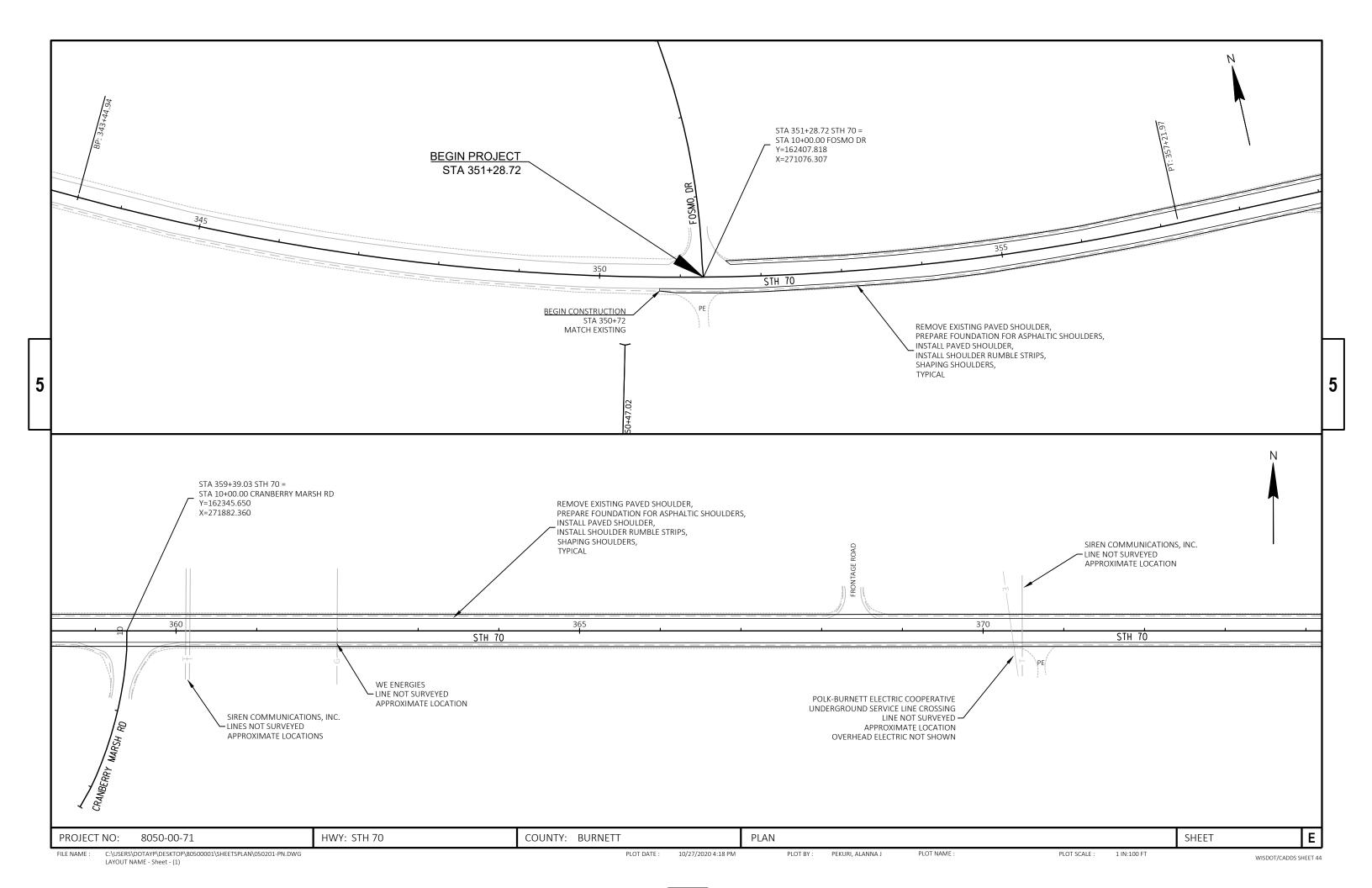
	646.1020				
	MARKING LINE				
	EPOXY 4-INCH				
REMARKS	LF	LOCATION	STATION	TO	STATION
WHITE EDGELINE	7,994	R	431+10.22	-	351+28.72
	6,082	L _	431+10.22	-	351+28.72
	14,076	TOTAL 0010			

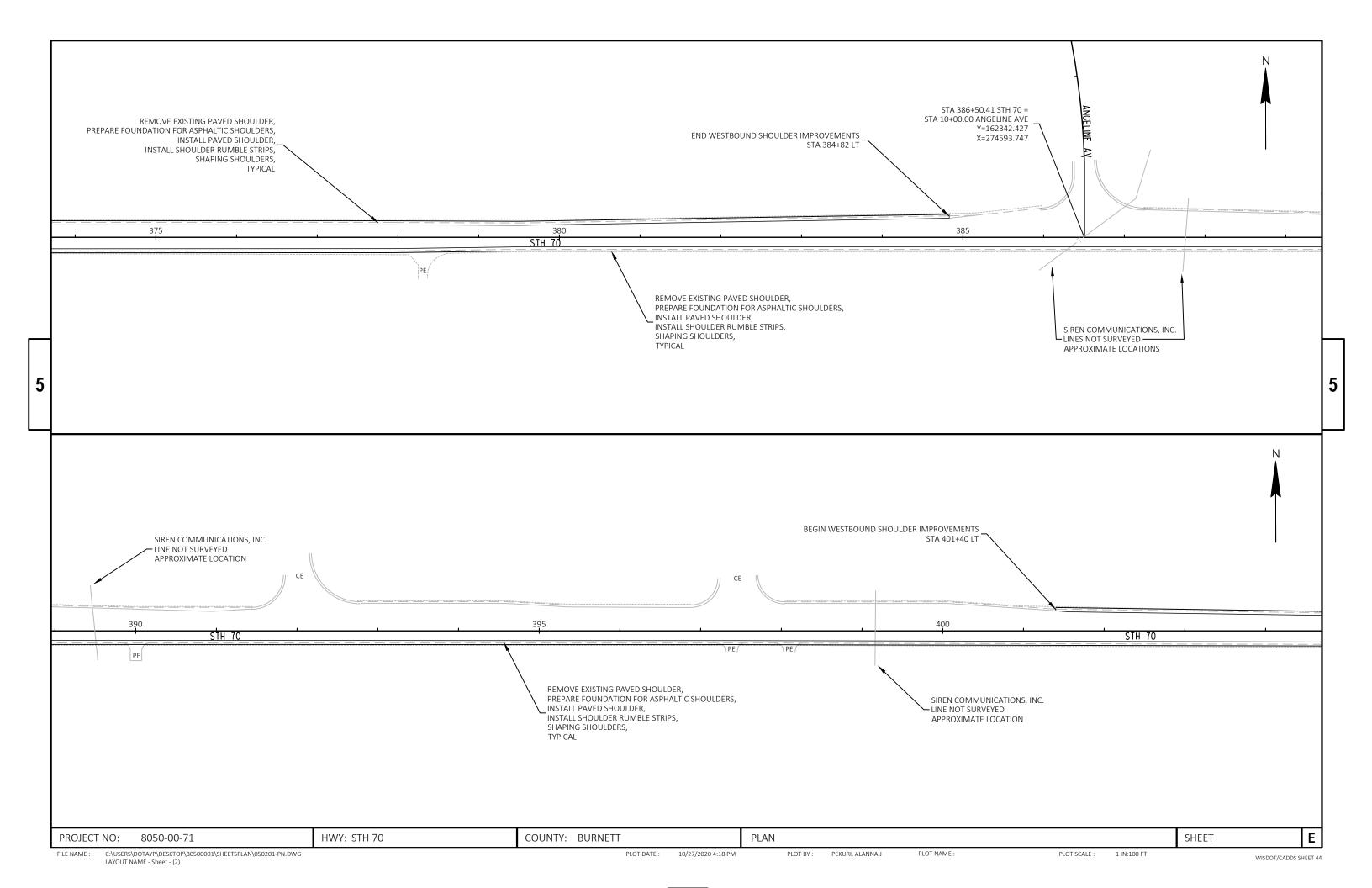
### CONSTRUCTION STAKING

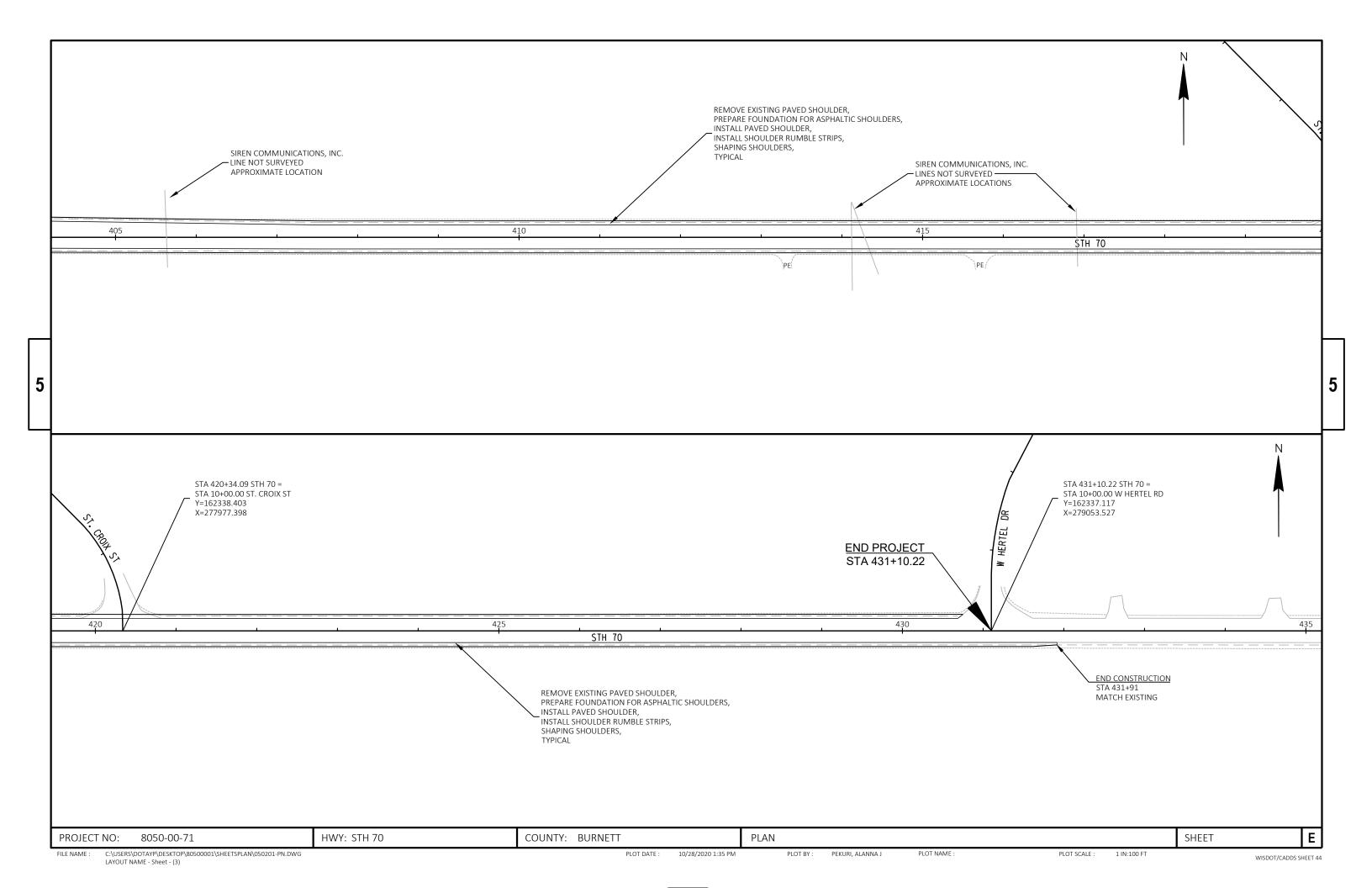
				650.5000	650.8000 CONSTRUCTION STAKING
				CONSTRUCTION	RESURFACING
				STAKING BASE	REFERENCE
STATION	TO	STATION	LOCATION	LF	LF
351+28.72	-	431+10.22	R	7,994	7,994
351+28.72	-	431+10.22	L	6,082	6,082
			TOTAL 0010	14,076	14,076

PROJECT NO: 8050-00-71 HWY: STH 70 COUNTY: BURNETT MISCELLANEOUS QUANTITIES SHEET: **E** 

FILE NAME : N:\PDS\...\030200\_mq.pptx PLOT BY : A.R.H. PLOT NAME : PLOT NAME : PLOT NAME : PLOT SCALE : 1:1



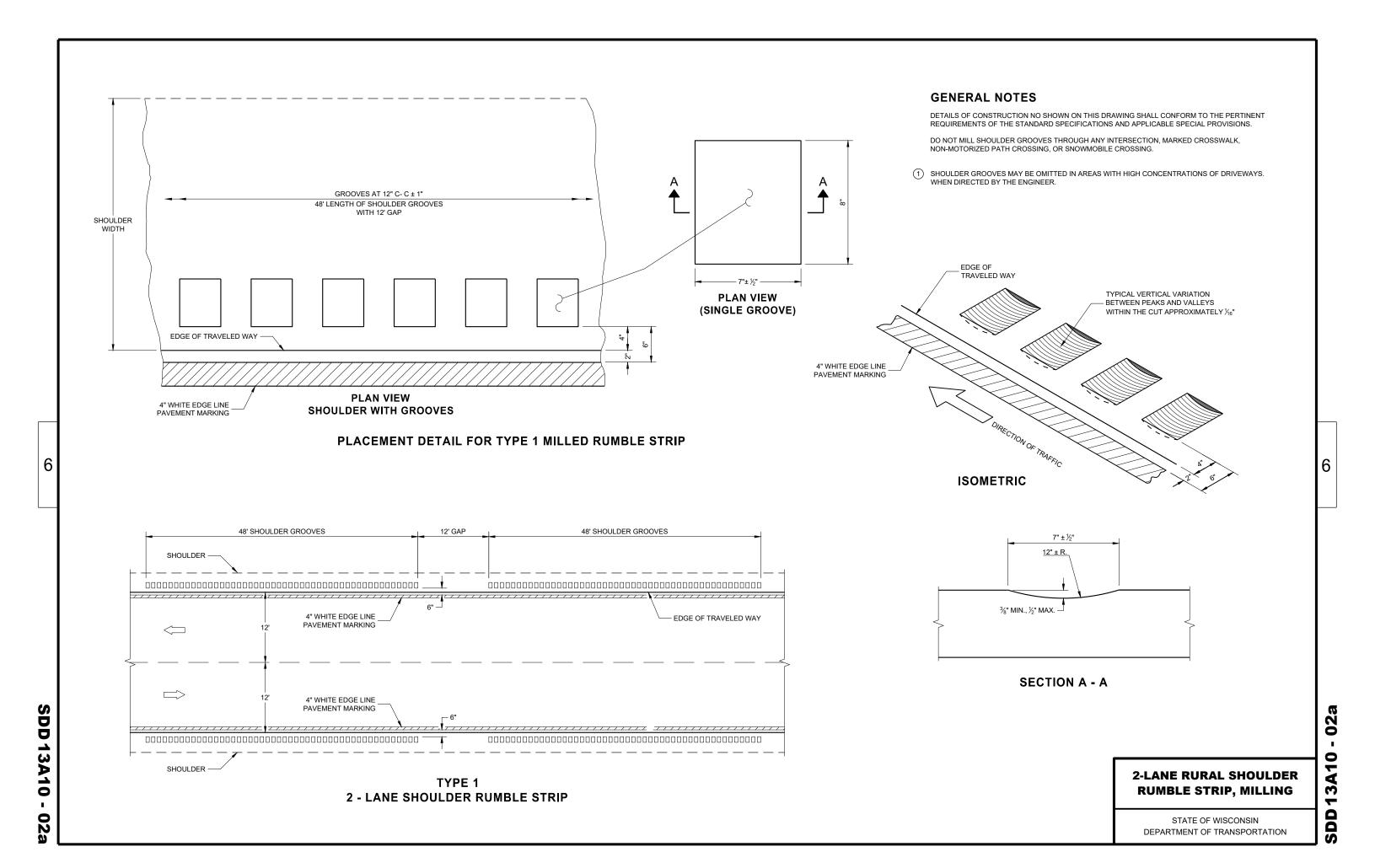


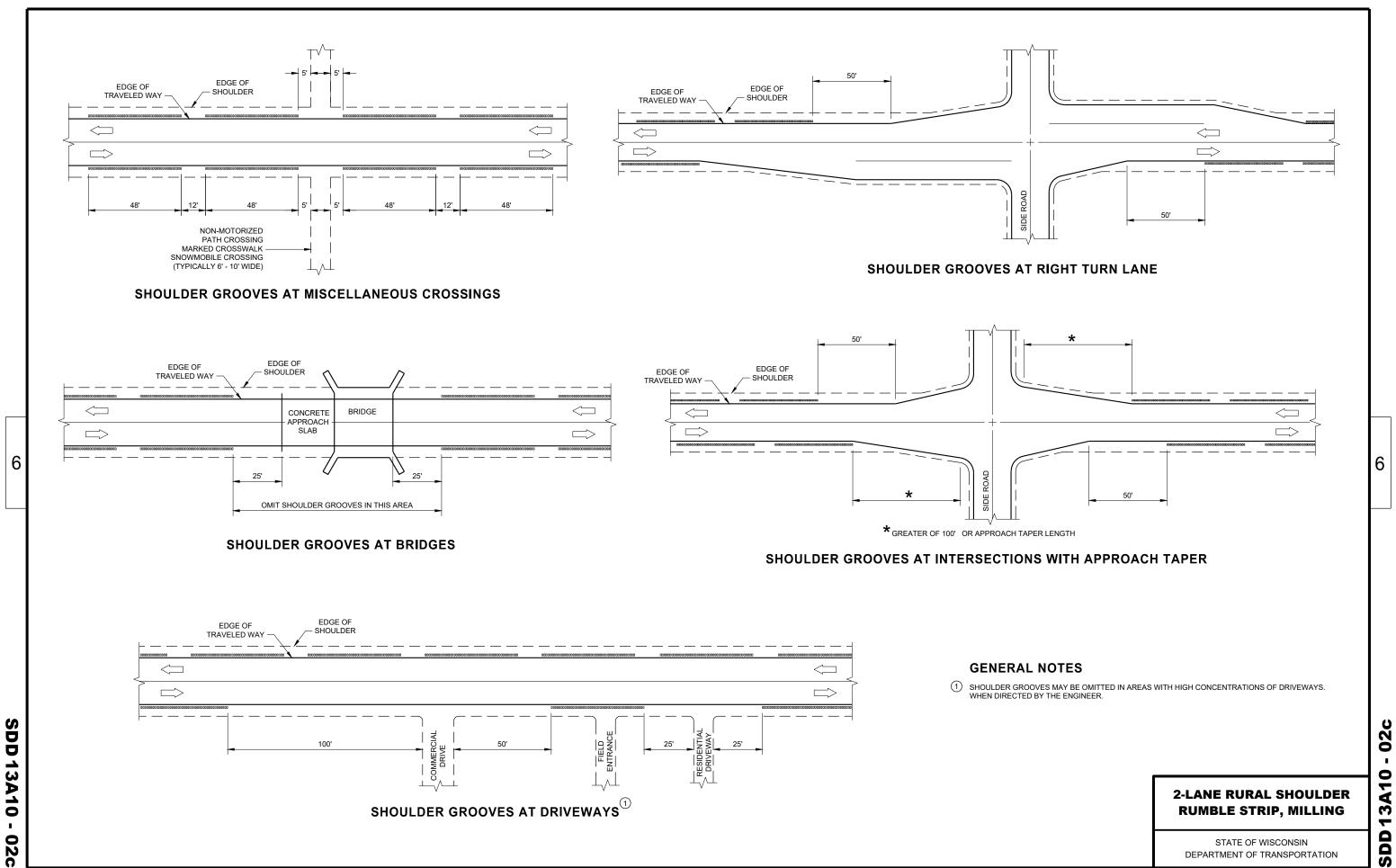


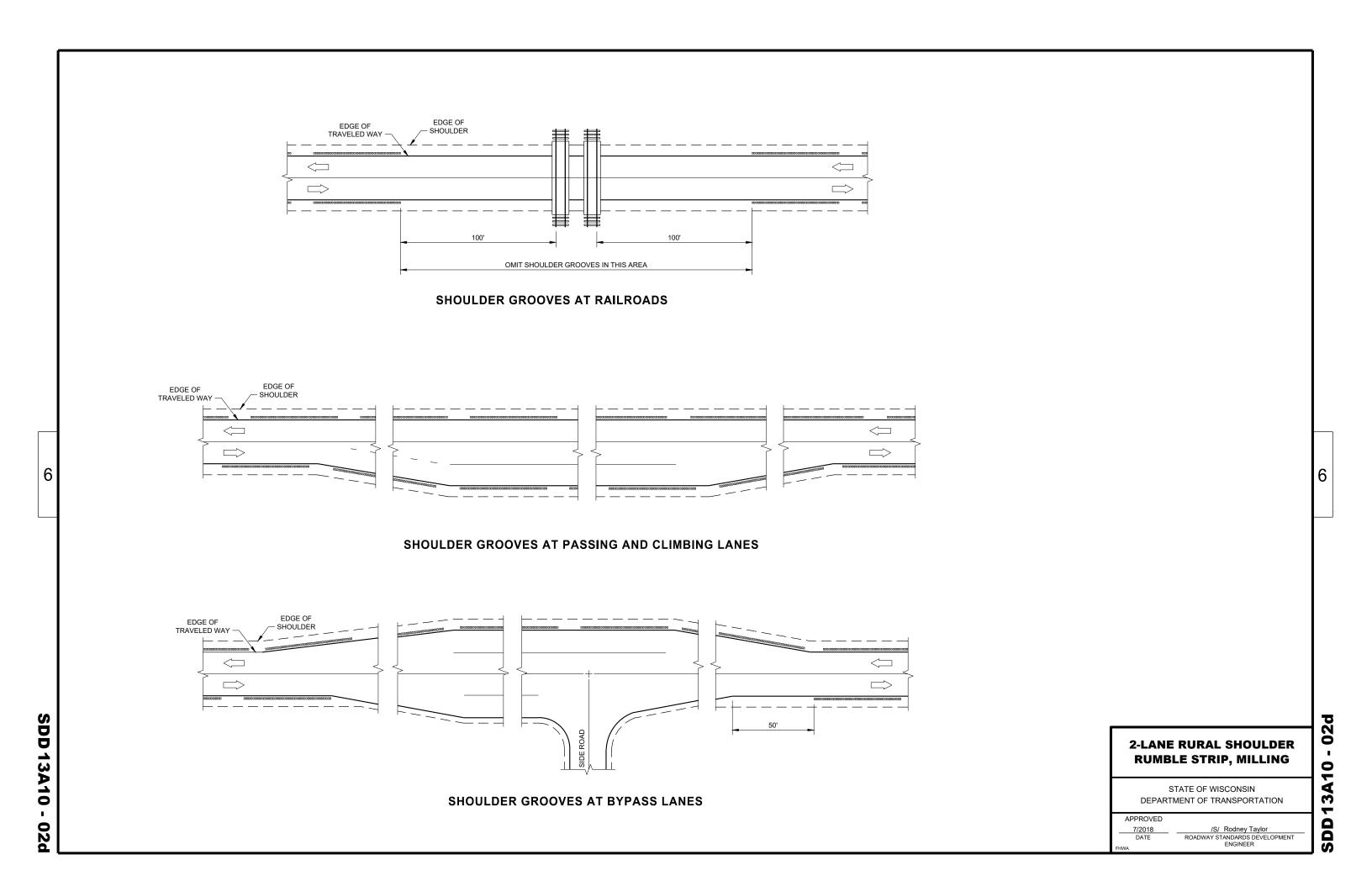
# Standard Detail Drawing List

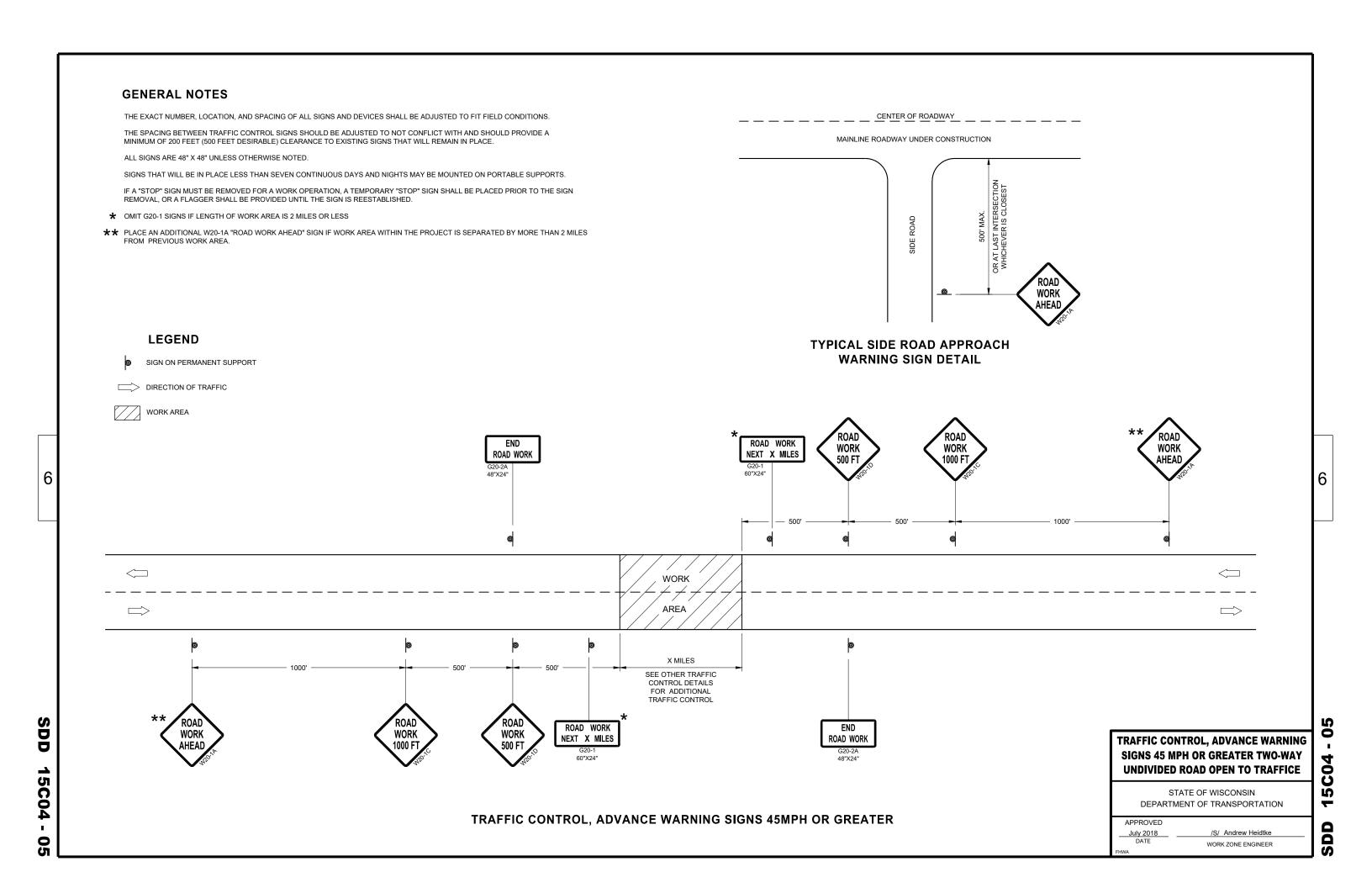
13A10-02A	2-LANE RURAL SHOULDER RUMBLE STRIP, MILLING
13A10-02C	2-LANE RURAL SHOULDER RUMBLE STRIP, MILLING
13A10-02D	2-LANE RURAL SHOULDER RUMBLE STRIP, MILLING
15C04-05	TRAFFIC CONTROL, ADVANCE WARNING SIGNS 45 M.P.H. OR GREATER TWO-WAY UNDIVIDED ROAD OPEN TO TRAFFIC
15C08-20A	LONGI TUDI NAL MARKI NG (MAI NLI NE)
15C11-07B	CHANNELIZING DEVICES DRUMS, CONES, BARRICADES AND VERTICAL PANELS
15C12-07	TRAFFIC CONTROL FOR LANE CLOSURE WITH FLAGGING OPERATION
15C19-06A	MOVING PAVEMENT MARKING OPERATION TWO-LANE TWO-WAY ROADWAY
15D28-04	TRAFFIC CONTROL, WORK ON SHOULDER OR PARKING LANE, UNDIVIDED ROADWAY
15D38-02A	TEMPORARY TRAFFIC CONTROL SIGN MOUNTING
15D38-02B	ATTACHMENT OF SIGNS TO POSTS

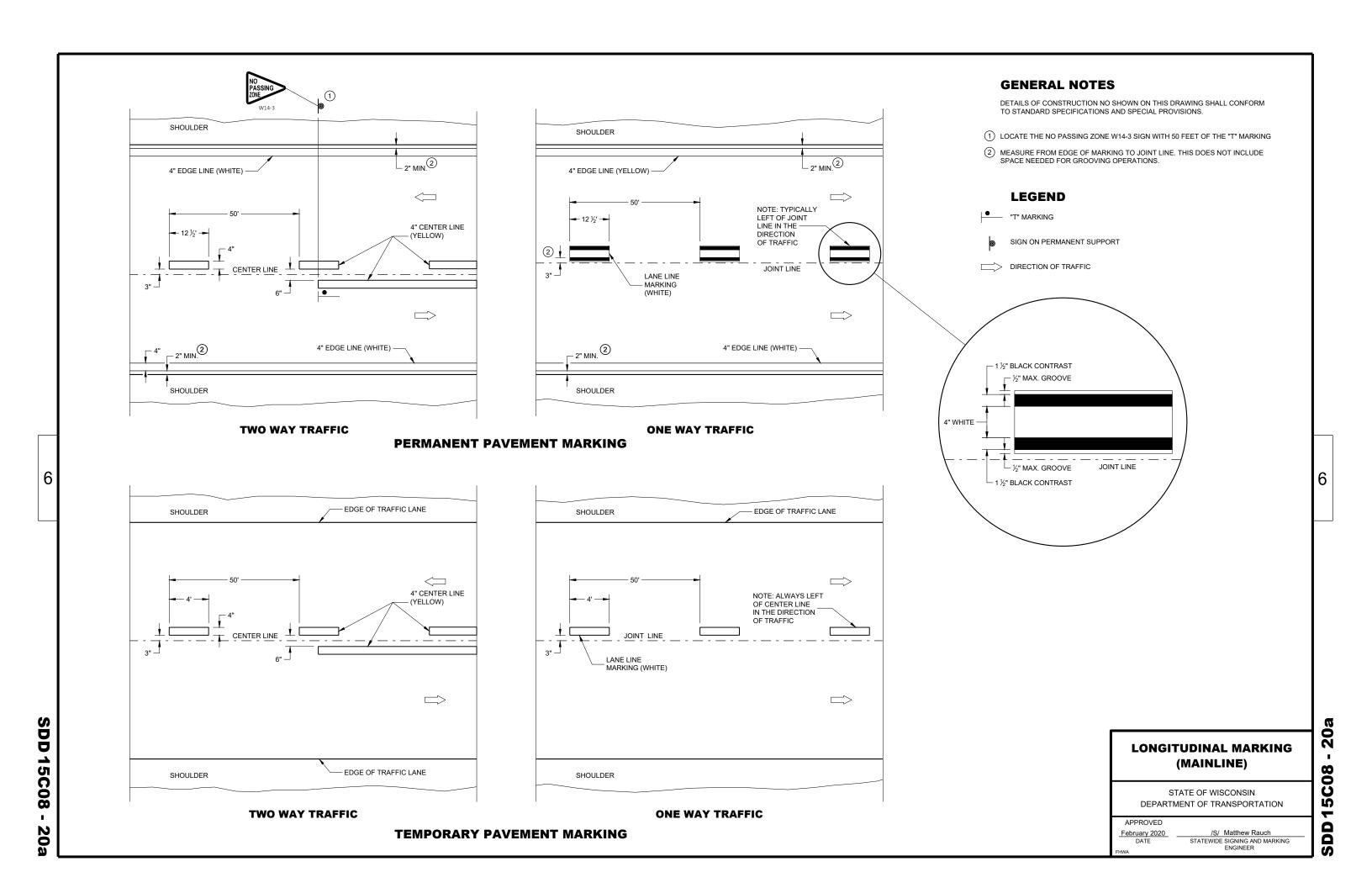
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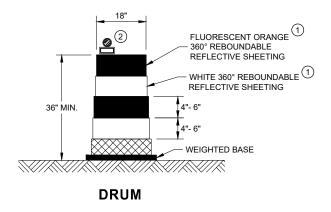


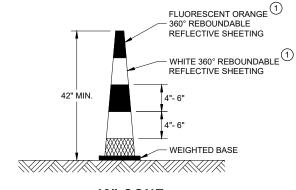




### **GENERAL NOTES**

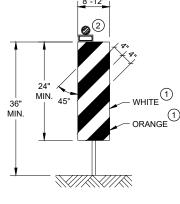
- (1) REFLECTIVE SHEETING SHALL FOLLOW THE REQUIREMENTS IN THE APPROVED PRODUCTS LISTING FOR SIGN SHEETING.
- (2) LOCATION OF WARNING LIGHTS WHEN SHOWN ON THE PLAN.





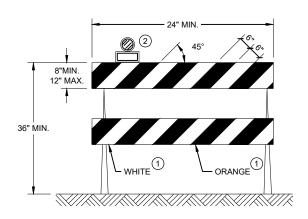
**42" CONE** DO NOT USE IN TAPERS

½ SPACING OF DRUMS



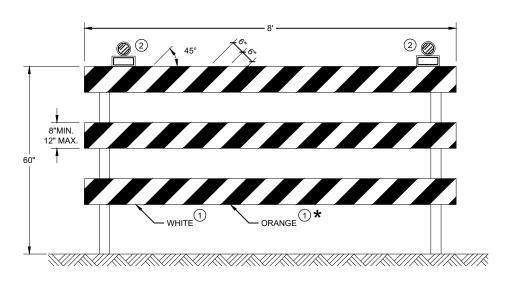
## **VERTICAL PANEL**

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



### **TYPE II BARRICADE**

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



### **TYPE III BARRICADE**

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

\* IF USED FOR A PERMANENT APPLICATION USE RED SHEETING.

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

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION 07

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SDD

APPROVED	
June 2017	/S/ Andrew Heidtke
DATE	WORK ZONE ENGINEER
FHWA	

RUMBLE

STRIPS

ROAD

WORK

#### **GENERAL NOTES FLAGGING LEGEND** FLAGGERS SHALL BE IN SIGHT OF EACH OTHER OR IN DIRECT COMMUNICATION AT ALL TIMES. THEY SHALL BE EQUIPPED WITH DETAILS OF TRAFFIC CONTROL DEVICES AND INSTALLATION NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE SIGN ON PORTABLE OR PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS, THE SPECIAL PROVISIONS, AND THE MANUAL ON STOP/SLOW PADDLES FASTENED ON SUPPORT STAFFS. WHEN THE FLAGGING OPERATION IS NOT IN EFFECT REMOVE TEMPORARY PERMANENT SUPPORT PORTABLE RUMBLE STRIPS PRIOR TO COVERING OR REMOVING ALL ADVANCE SIGNING. UNIFORM TRAFFIC CONTROL DEVICES. ALL SIGNS ARE 48" X 48" UNLESS OTHERWISE NOTED. FOR MOVING WORK OPERATIONS, POST ADDITIONAL W20-7A FLAGGER SIGNS AT APPROXIMATELY 3,500' INTERVALS IN THE MOVING TEMPORARY PORTABLE RUMBLE WORK OPERATION OR AS APPROVED BY THE ENGINEER. STRIP ARRAY "WO" SIGNS ARE THE SAME AS "W" SIGNS EXCEPT THE BACKGROUND IS ORANGE. SIGN NOT REQUIRED IF FLAGGING OPERATION OCCURS WITHIN A SIGNED ROAD WORK ZONE AREA. THE EXACT NUMBER, LOCATION AND SPACING OF ALL SIGNS, DEVICES, AND LOCATION OF ALL FLAGGERS SHALL BE DIRECTION OF TRAFFIC ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER. WHEN THE DISTANCE BETWEEN FLAGGERS EXCEEDS 2 MILES, A PILOT CAR IS REQUIRED. WHEN CURVES REDUCE SIGHT DISTANCE BELOW 400', A PILOT CAR IS REQUIRED. THE FIRST ADVANCE WARNING SIGN SHOULD TYPICALLY BE LOCATED IN ADVANCE OF THE ANTICIPATED TRAFFIC BACKUP WORK AREA **TEMPORARY PORTABLE RUMBLE STRIPS** WHEN A SIDE ROAD OR RAMP INTERSECTS THE FACILITY ON WHICH THE WORK IS BEING PERFORMED, ADDITIONAL UTILIZE TEMPORARY PORTABLE RUMBLE STRIPS ON ALL FLAGGING OPERATIONS. TRAFFIC CONTROLS SHALL BE PROVIDED AS SPECIFIED IN THE PLANS AND/OR THE SPECIAL PROVISIONS OR AS APPROVED BY THE ENGINEER. FLAGGER, EQUIPPED WITH STOP/SLOW EACH TEMPORARY PORTABLE RUMBLE STRIP ARRAY CONSISTS OF THREE RUMBLE STRIPS SPACED ACCORDING TO MANUFACTURER'S PADDLE FASTENED ON SUPPORT STAFF RECOMMENDATION, PLACED TRANSVERSE ACROSS THE LANE AT LOCATIONS SHOWN. ONLY USE TEMPORARY PORTABLE RUMBLE STRIPS FOR THE APPROVED PRODUCTS LIST. INSTALL TEMPORARY RUMBLE STRIPS PER MANUFACTURER'S RECOMMENDATIONS. PLACE ADVANCE SIGNING PRIOR TO INSTALLING TEMPORARY RUMBLE STRIPS. DO NOT INSTALL TEMPORARY PORTABLE RUMBLE STRIPS ON GRAVEL, MILLED SURFACES, OR ASPHALT THAT HAS BEEN PAVED LESS THAN 12 HOURS. **SIGN AND TEMPORARY RUMBLE** STRIP ARRAY SPACING TABLE 5' MIN BE SPEED LIMIT SPACING "A" USE OF WO3-4 SIGN IS OPTIONAL. WHEN USED, PREPARED THIS SIGN SHALL BE LOCATED BETWEEN THE 25-30 MPH TO STOP W20-7A AND W20-4A SIGNS, USING SPACING "A" 35-40 MPH STOP/SLOW PADDLE ŔUMBLĖ 45-55 MPH 500' WO3-4 WORK **ON SUPPORT STAFF** ROAD STRIPS 1 VARIABLE DISTANCE - 200' - 300' (TYP.) END ROAD WORK |||3 WORK AREA A/2 END ROAD WORK 200' - 300' (TYP.) VARIABLE DISTANCE

### TRAFFIC CONTROL FOR LANE CLOSURE WITH FLAGGING OPERATION

**FLAGGING OPERATION** STATE OF WISCONSIN

TRAFFIC CONTROL FOR

LANE CLOSURE WITH

2

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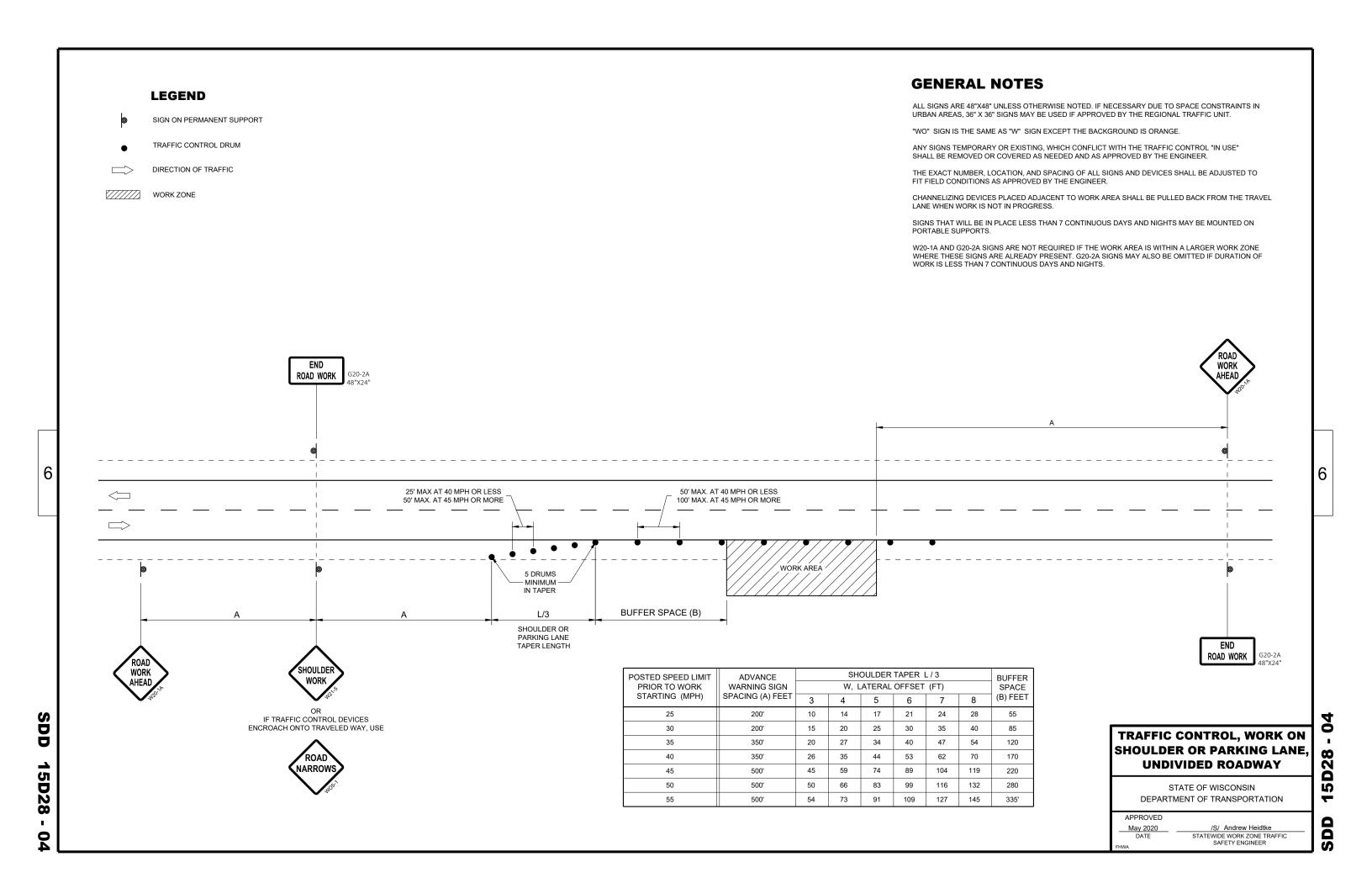
DEPARTMENT OF TRANSPORTATION

APPROVED May 2019 DATE WORK ZONE ENGINEER

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WORK ZONE ENGINEER

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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

POST MOUNTING DETAIL FOR TEMPORARY TRAFFIC CONTROL FIXED MESSAGE SIGNS

WOOD POST **EMBEDMENT DEPTH** 

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

4" X 6" WOOD POST

POST SPACING REQUIREM	NUMBER OF WOOD POSTS		
L	E	REQUIRED	
48" OR LESS AND LESS THAN 20 SO.FT.	-	1	
LESS THAN 60"	12"	2	٤
60" TO 120"	L/5	2	
GREATER THAN 120" LESS THAN 168"	12"	3	
168" AND GREATER	12"	4	

SEE NOTE (3)

RURAL AREA

TEMPORARY TRAFFIC CONTROL SIGN MOUNTING

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

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- 11/2" DIAMETER HOLES

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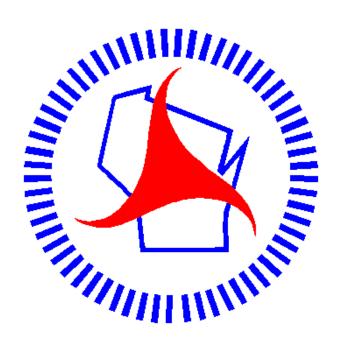
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

> /S/ Andrew Heidtke WORK ZONE ENGINEER

APPROVED

June 2017
DATE

Notes



# Wisconsin Department of Transportation

Dedicated people creating transportation solutions through innovation and exceptional service.

http://www.dot.wisconsin.gov