Section No.

Section No. Section No.

Section No.

Section No. Section No.

TOTAL SHEETS =

STATE OF WISCONSIN ORDER OF SHEETS **DEPARTMENT OF TRANSPORTATION** Section No. Typical Sections and Details Section No. Estimate of Quantities

PLAN OF PROPOSED IMPROVEMENT

CHILTON - VALDERS

STH 67 - ROOSEVELT STREET

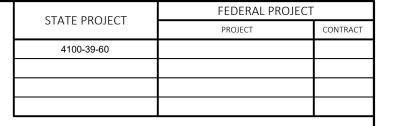
USH 151 MANITOWOC COUNTY

Collins

STATE PROJECT NUMBER 4100-39-60

WALLANDE

36



TRANS 220 PROJECT PLAN FOR DESIGN OF UTILITY FACILITY ALTERATIONS OR RELOCATIONS

2/17/2020 Date:

END PROJECT

STA 776+15.82

STRUCTURE B-36-2011

NET EXCEPTION TO CL LENGTH

STA 604+78.46 TO STA 605+51.68

Miscellaneous Quantities

Standard Detail Drawings

Computer Earthwork Data

Right of Way Plat

Plan and Profile

DESIGN DESIGNATION

AADT 2021 = 2990 A.A.D.T. 2041 = 4030 = 456 D.H.V. D.D. = 60/40 = 28.5% DESIGN SPEED = 55 MPH = 2,010,000

CONVENTIONAL SYMBOLS

CORPORATE LIMITS PROPERTY LINE LOTLINE LIMITED HIGHWAY EASEMENT EXISTING RIGHT OF WAY PROPOSED OR NEW R/W LINE SLOPE INTERCEPT REFERENCE LINE EXISTING CULVERT PROPOSED CULVERT COMBUSTIBLE FLUIDS MARSH AREA

WOODED OR SHRUB AREA

PROFILE GRADE LINE SPECIAL DITCH UTILITIES ELECTRIC FIBER OPTIC SANITARY SEWER STORM SEWER

TELEPHONE UTILITY PEDESTAL POWER POLE TELEPHONE POLE

ORIGINAL GROUND MARSH OR ROCK PROFILE (To be noted as such) GRADE ELEVATION CULVERT (Profile View)

BEGIN PROJECT

STA 362+85.00

Y=276,662.457

X=136,851.568

ES-

₫

Ø

67 CHRISTEL R St. .Eaton. SCHNELL RD TwinSTAHL Lks. Steinthal 31 36 | A CALUMET CO 발발 MANITOWOC CO LAYOUT 2 MI SCALE I TOTAL NET LENGTH OF CENTERLINE = 7.814 MILES

EATON

HORIZONTAL POSITIONS SHOWN ON THIS PLAN ARE WISCONSIN COORDINATE REFERENCE SYSTEM (WISCRS), MANITOWOC COUNTY, NAD83 (2011), IN U.S. SURVEY FEET. POSITIONS SHOWN ARE GRID COORDINATES. GRID BEARINGS. AND GRID DISTANCES. GRID DISTANCES ARE THE SAME AS GROUND DISTANCES. ELEVATIONS ARE REFERENCED TO NAVD 88 (2012). GPS DERIVED ELEVATIONS ARE BASED ON GEOID 12A.

PPROVED FOR THE DEPARTMENT

FILE NAME: N:\PDS\C3D\41003930\SHEETSPLAN\010101-TI.DWG

1/28/2020 7:08 AM

MAATTA, TRAVIS SHANE

Valde

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION PREPARED BY NE REGION Surveyor Designer Project Manage (Signature) Ε

2

GENERAL NOTES

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

UTILITY CONTACTS

MIKE OLSEN ATC MANAGEMENT INC PO BOX 47WAUKESHA, WI 53187-0047 920-338-6582 MOLSEN@ATCLLC.COM

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PLYMOUTH, WI 53073
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262-792-7938
MARY.B.FISHER@WINDSTREAM.COM

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DNR LIASION

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DEPARTMENT OF NATURAL RESOURCES
NORTHEAST REGION
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matthew.schaeve@wisconsin.gov

MANITOWOC COUNTY COMMISSIONER

MARC HOLSEN
HIGHWAY COMMISSIONER
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MANITOWOC, WI 54220
(920)683-4353
marcholsen@co.manitowoc.wi.us

NE REGION SURVEY COORDINATOR

CORMAC MCINNIS, RLS 944 VANDERPERREN WAY GREEN BAY, WI 54304 (920)492-5638 cormac.mcinnis@dot.wi.gov

ORDER OF SECTION 2 DETAIL SHEETS

GENERAL NOTES
PROJECT OVERVIEW
TYPICAL SECTIONS
CONSTRUCTION DETAILS
EROSION CONTROL
INTERSECTION DETAILS

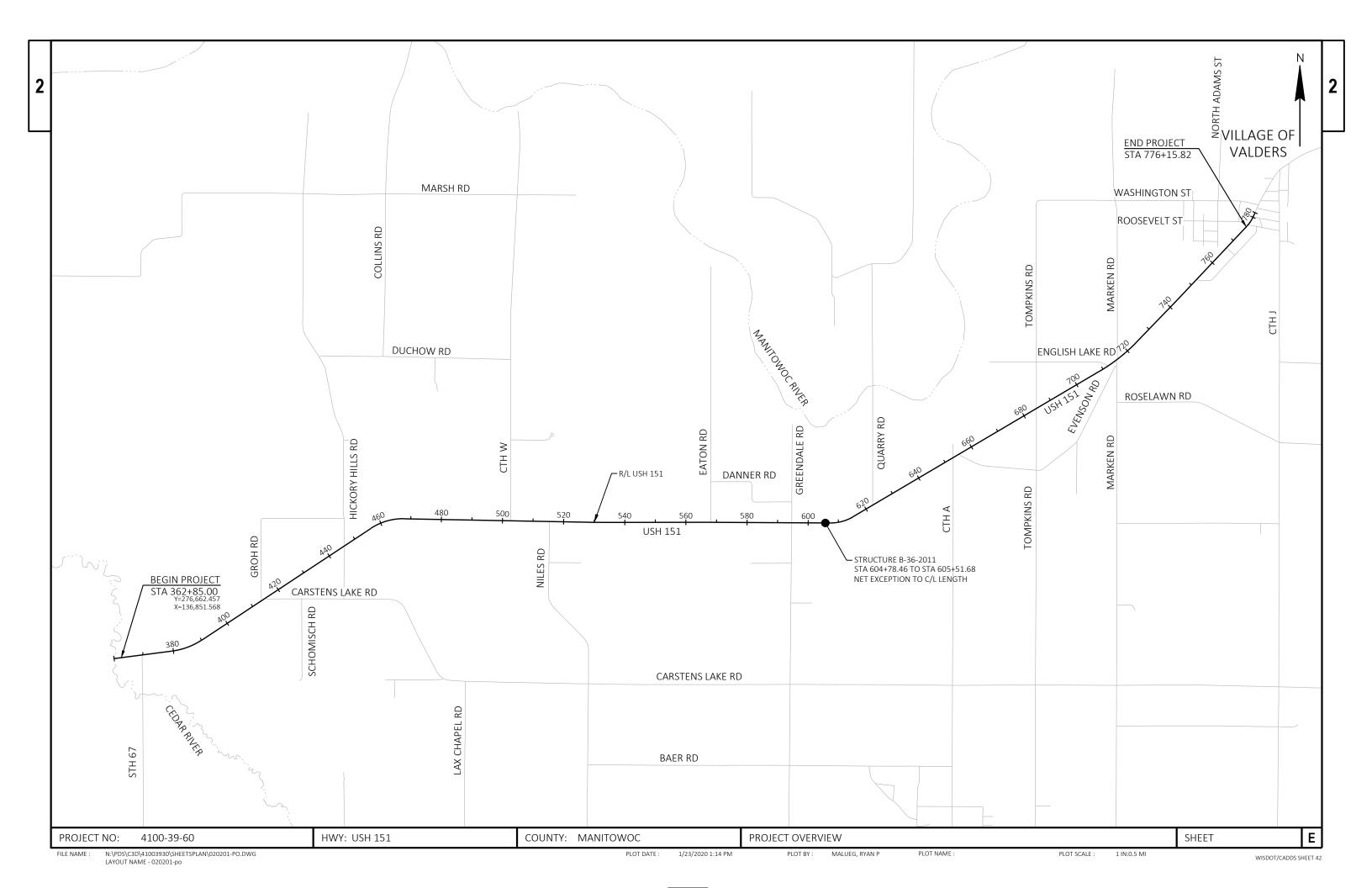
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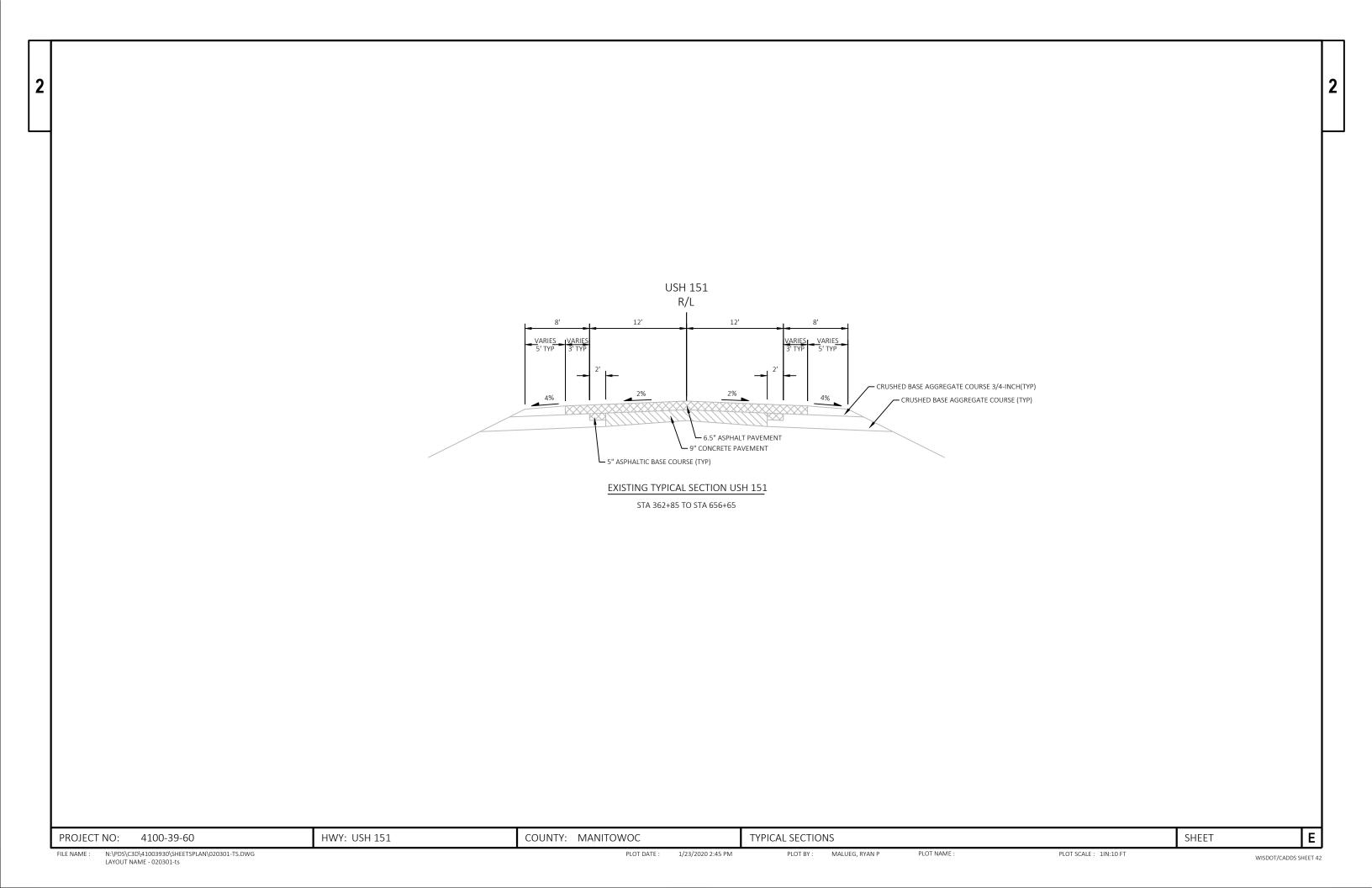
Dial or (800)242-8511
www.DiggersHotline.com

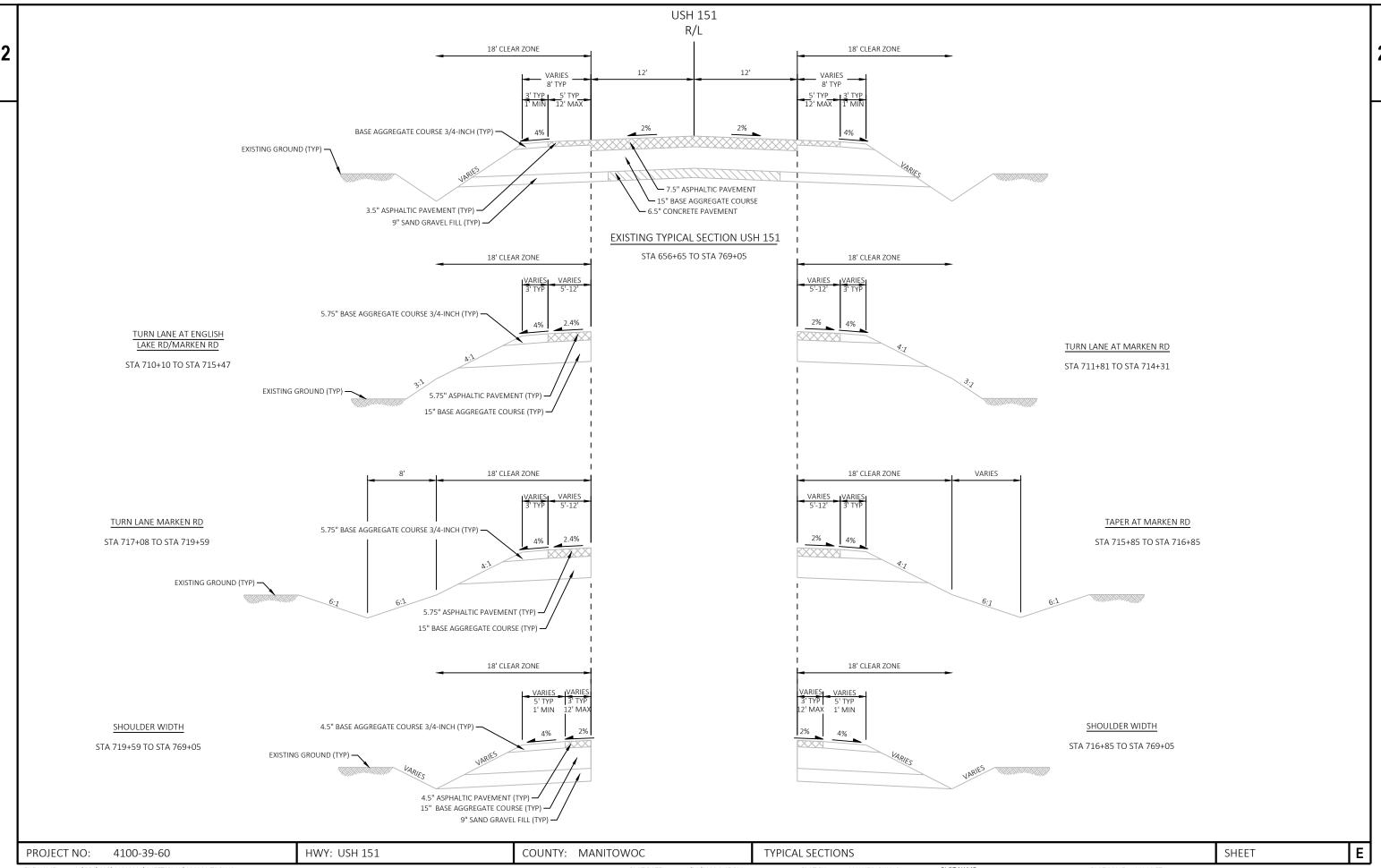
PROJECT NO: 4100-39-60 HWY: USH 151 COUNTY: MANITOWOC GENERAL NOTES SHEET **E**

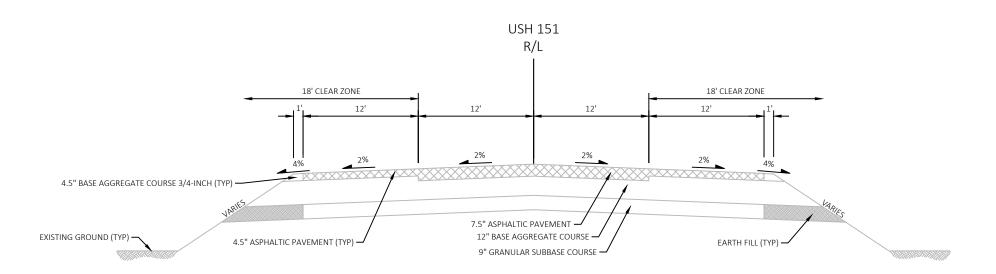
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LAYOUT NAME - 020101-gn

PLOT DATE: 1/23/2020 1:11 PM
PLOT BY: MALUEG, RYAN P
PLOT NAME: PLOT NAME: PLOT NAME: PLOT NAME: PLOT NAME: PLOT NAME - 020101-gn
WISDOT/CADDS SHEET 42









EXISTING TYPICAL SECTION USH 151

STA 769+05 TO STA 776+15.82

Ε HWY: USH 151 COUNTY: MANITOWOC SHEET PROJECT NO: 4100-39-60 TYPICAL SECTIONS PLOT NAME :

USH 151 R/L 2" HMA PAVEMENT 2" UPPER LAYER 4 MT 58-28 S 4" HMA PAVEMENT (TYP) 2" UPPER LAYER 4 MT 58-28 S 2" LOWER LAYER 4 MT 58-28 S SHAPING SHOULDERS, 1" BASE — AGGREGATE DENSE 3/4-INCH (TYP) EXISTING ASPHALT PAVEMENT (MILL 2" OVERLAY 2") EXISTING CONCRETE PAVEMENT TO REMAIN - EXISTING ASPHALTIC BASE COURSE (TYP)
TO REMAIN PREPARE FOUNDATIONS FOR — ASPHALTIC SHOULDER LIMITS PREPARE FOUNDATIONS FOR ASPHALTIC SHOULDER LIMITS PROPOSED TYPICAL SECTION USH 151 STA 368+24 TO STA 656+65

COUNTY: MANITOWOC

HWY: USH 151

PROJECT NO:

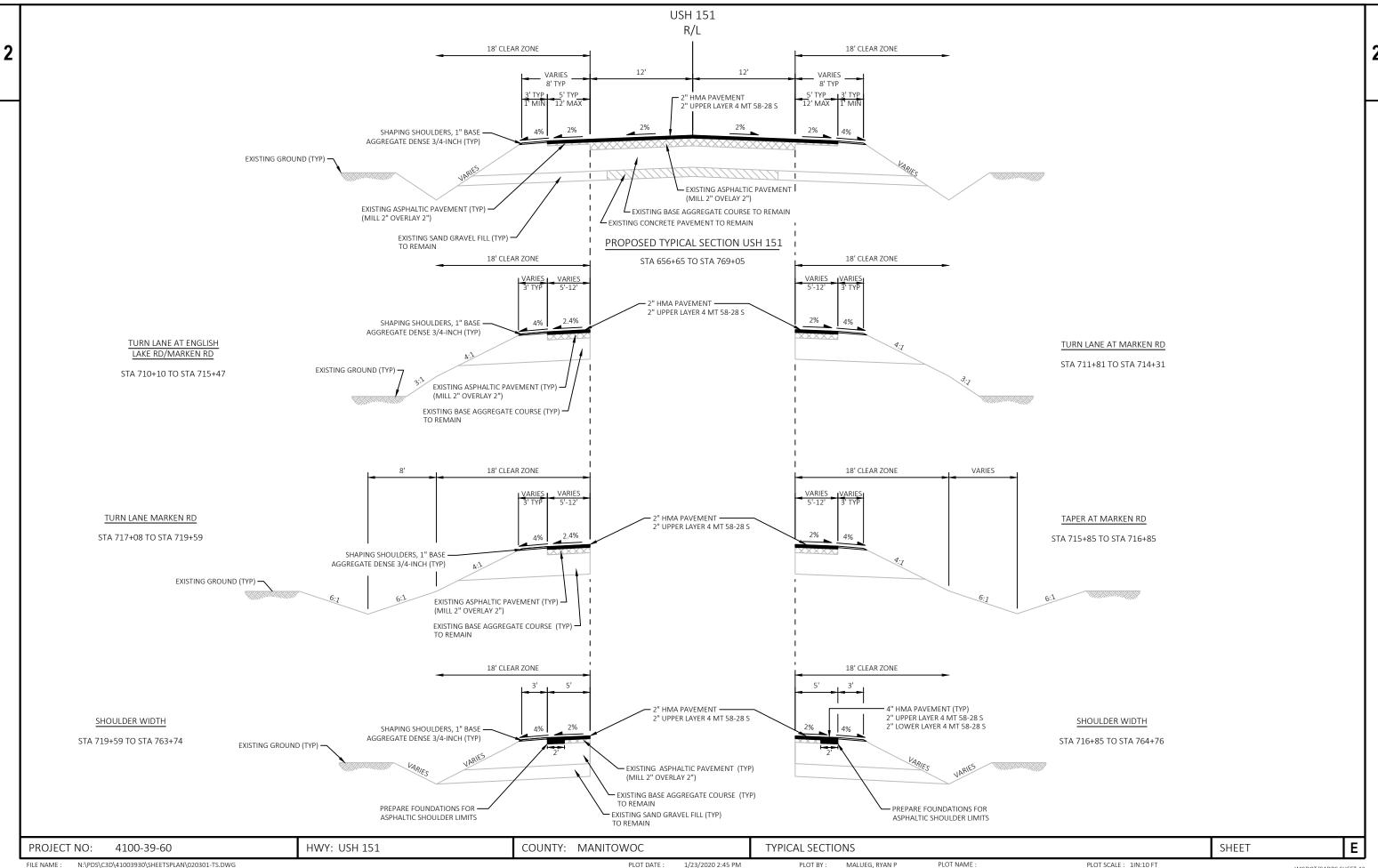
4100-39-60

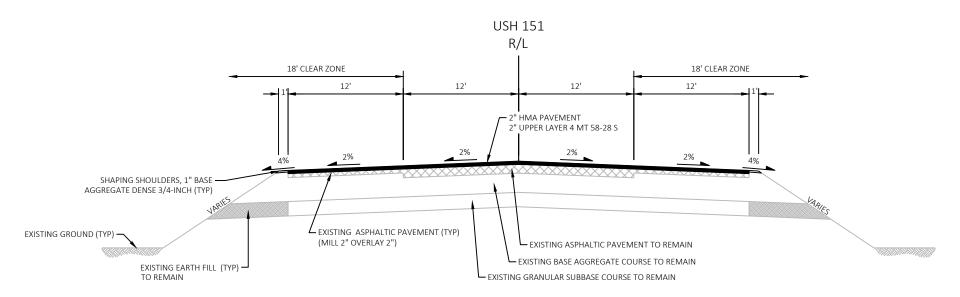
FILE NAME: N:\PDS\C3D\41003930\SHEETSPLAN\020301-TS.DWG PLOT DATE: 1/23/2020 2:45 PM PLOT BY: MALUEG, RYAN P PLOT NAME: PLOT SCALE: 1IN:10 FT WISDOT/CADDS SHEET 42 LAYOUT NAME - 020304-ts

TYPICAL SECTIONS

Ε

SHEET

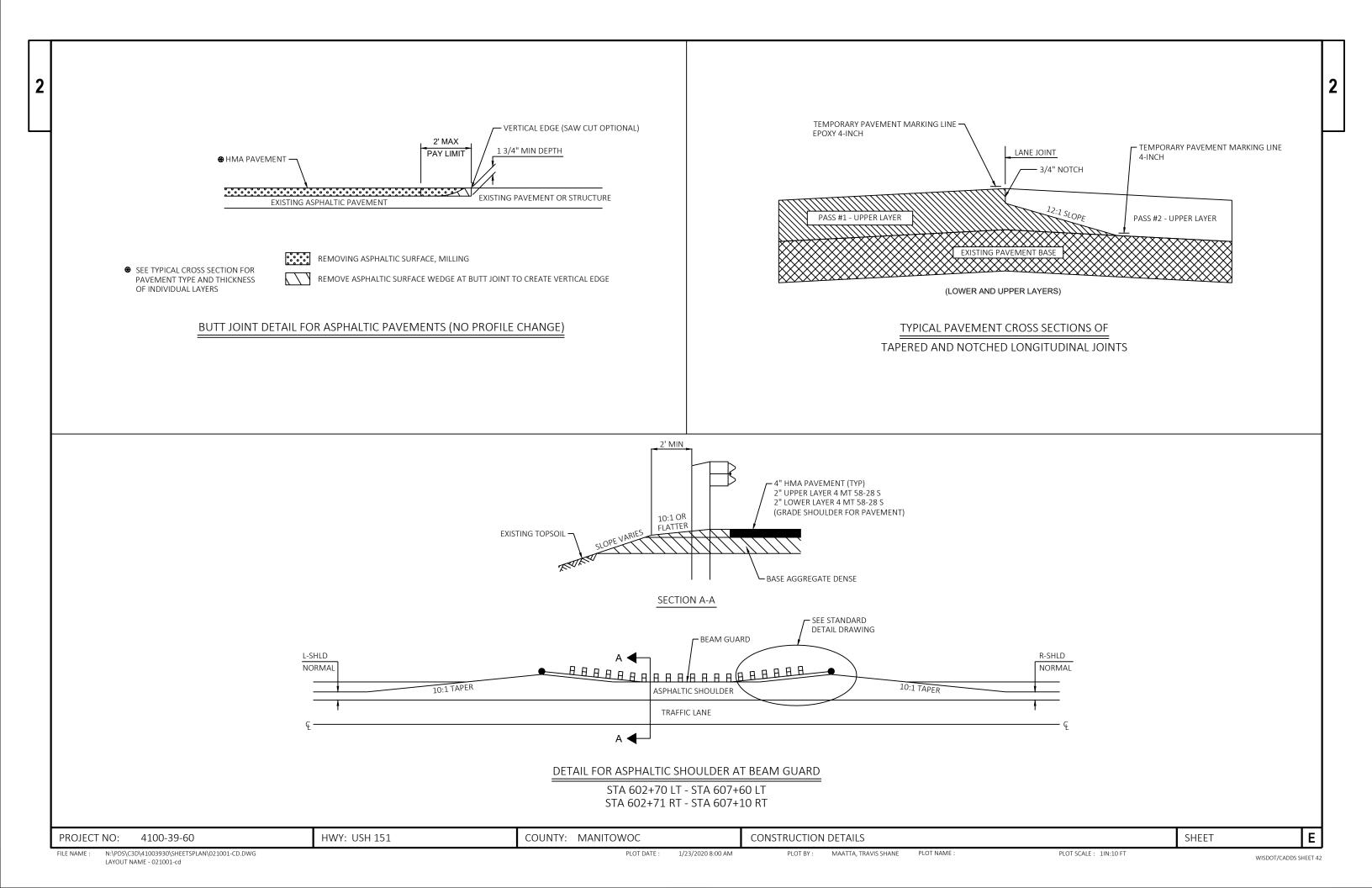




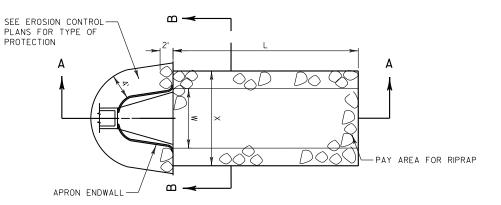
PROPOSED TYPICAL SECTION USH 151

STA 769+05 TO STA 776+15.82

HWY: USH 151 COUNTY: MANITOWOC TYPICAL SECTIONS Ε PROJECT NO: 4100-39-60 SHEET PLOT DATE : 1/23/2020 2:45 PM PLOT NAME :



WISDOT/CADDS SHEET 42



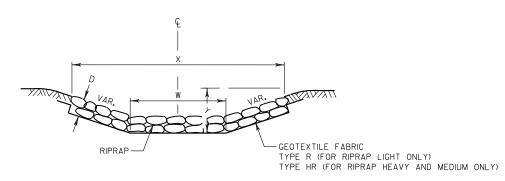
PLAN VIEW

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

SECTION A-A

GEOTEXTILE FABRIC

SEE CROSS SECTIONS-FOR SLOPE

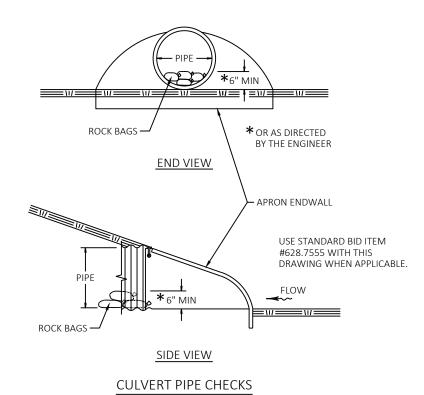


EMBANKMENT

SECTION B-B

RIPRAP AND GEOTEXTILE FABRIC DETAIL AT APRON ENDWALLS

695+00 -40.0' LT

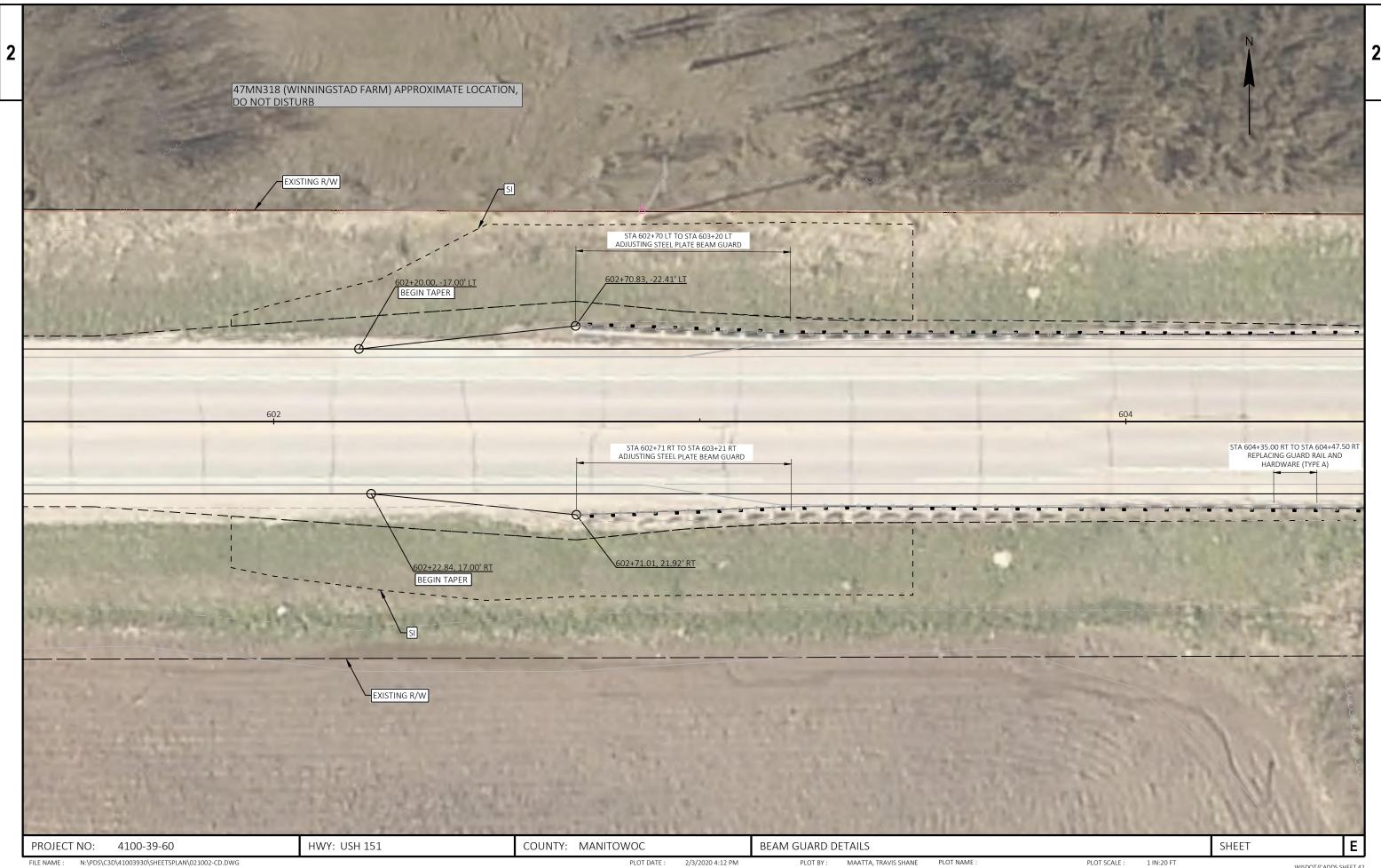


PROJECT NO: 4100-39-60 HWY: USH 151 COUNTY: MANITOWOC PLAN: CONSTRUCTION DETAILS SHEET **E**

PLOT DATE: 1/23/2020 8:00 AM PLOT BY: MAATTA, TRAVIS SHANE PLOT NAME: PLOT SCALE: 1IN:10 FT

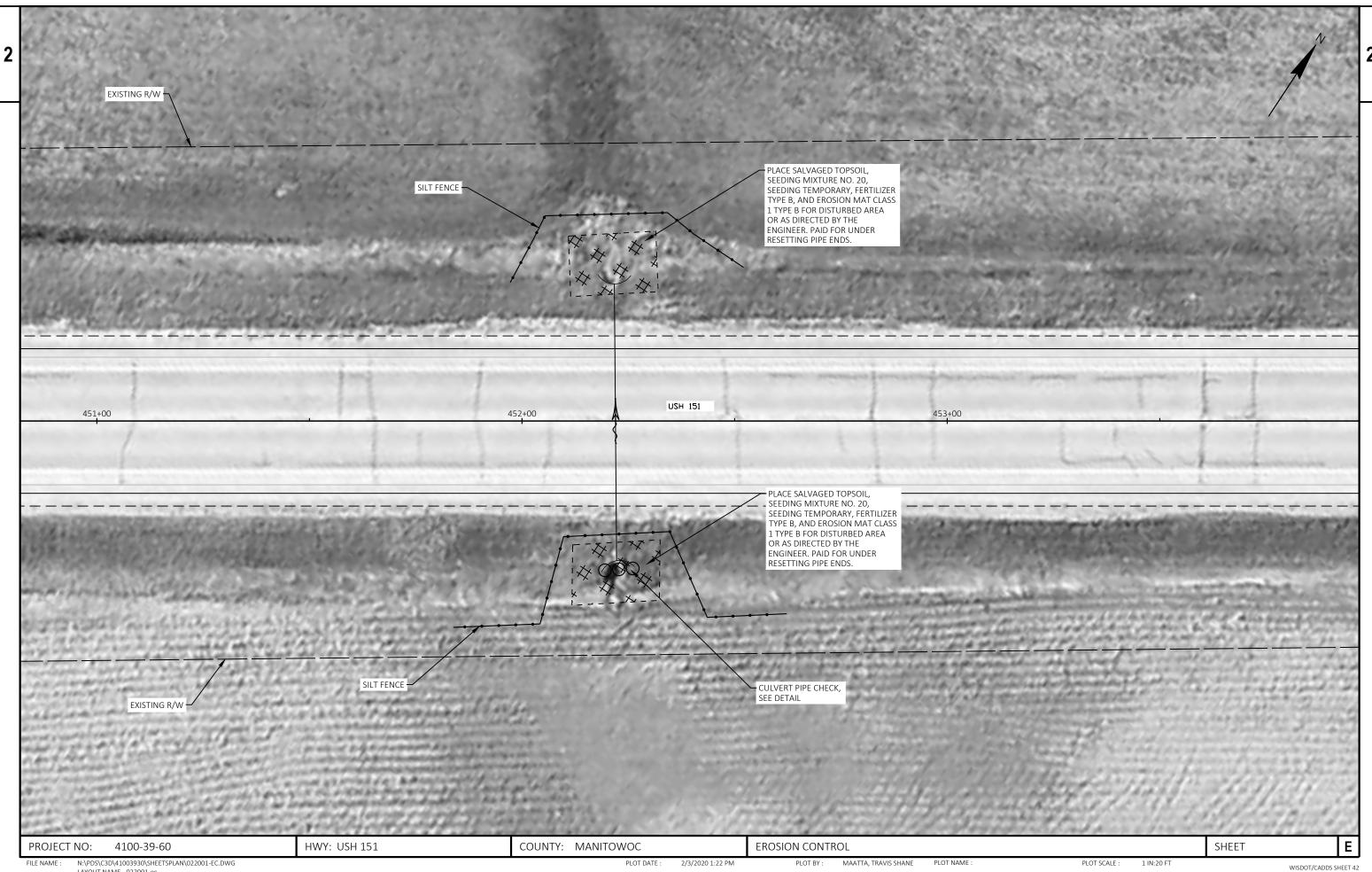


N:\PDS\C3D\41003930\SHEETSPLAN\021002-CD.DWG LAYOUT NAME - 021005-cd



WISDOT/CADDS SHEET 42 LAYOUT NAME - 021006-cd





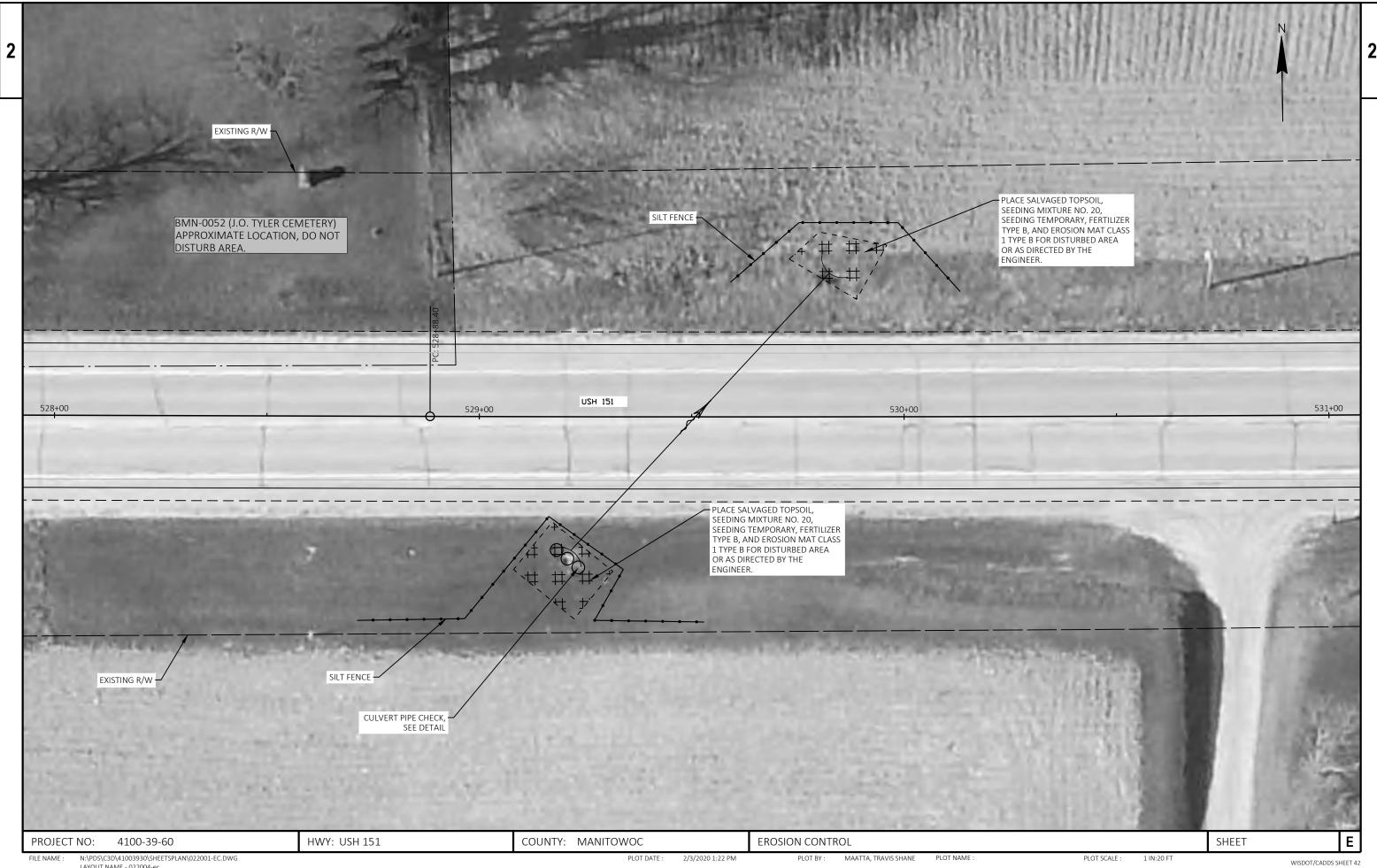
LAYOUT NAME - 022001-ec



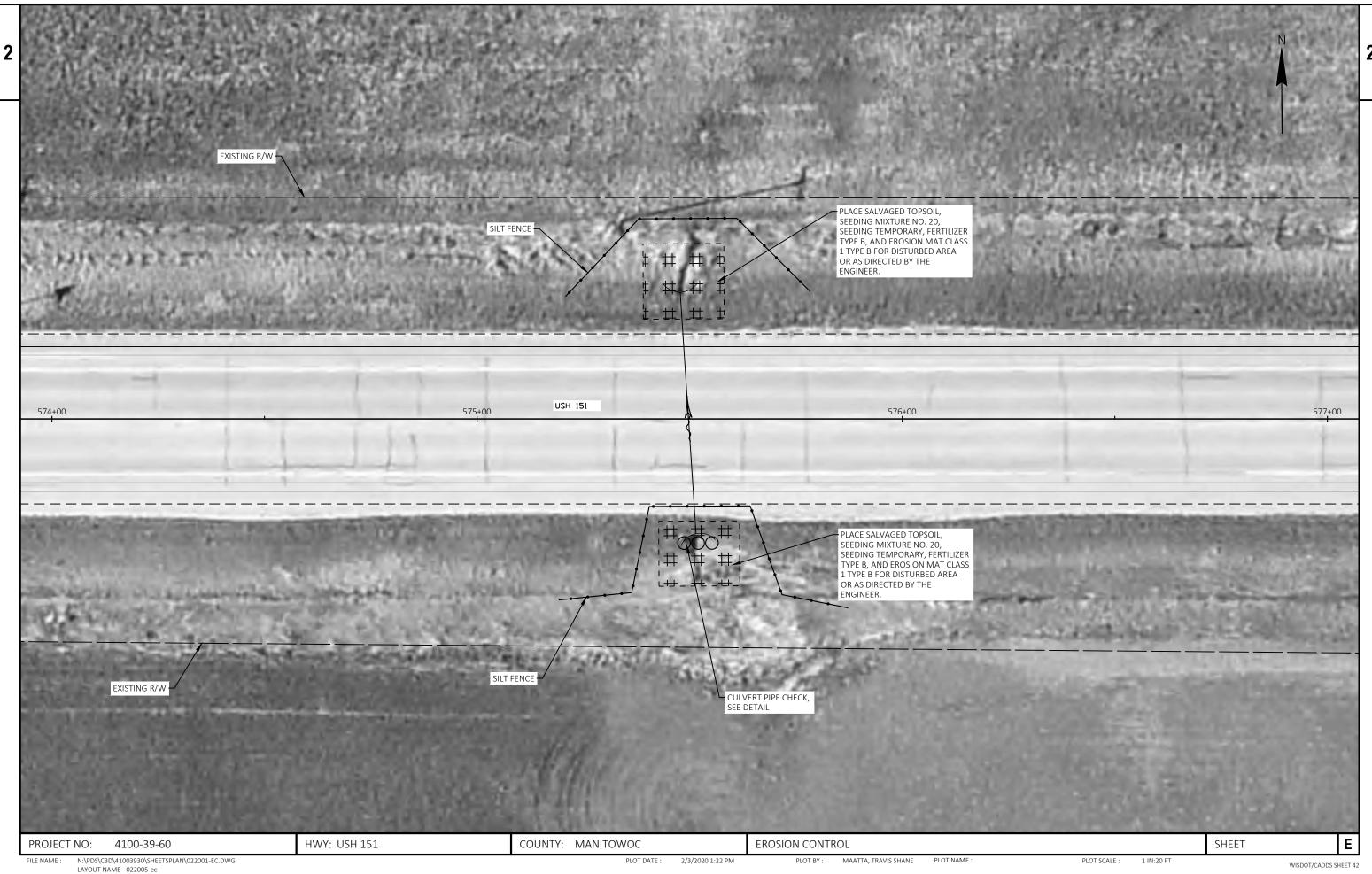
N:\PD\$\C3D\41003930\SHEETSPLAN\022001-EC.DWG PLOT DATE : 2/3/2020 1:22 PM PLOT BY: MAATTA, TRAVIS SHANE PLOT NAME : PLOT SCALE : 1 IN:20 FT WISDOT/CADDS SHEET 42 LAYOUT NAME - 022002-ec

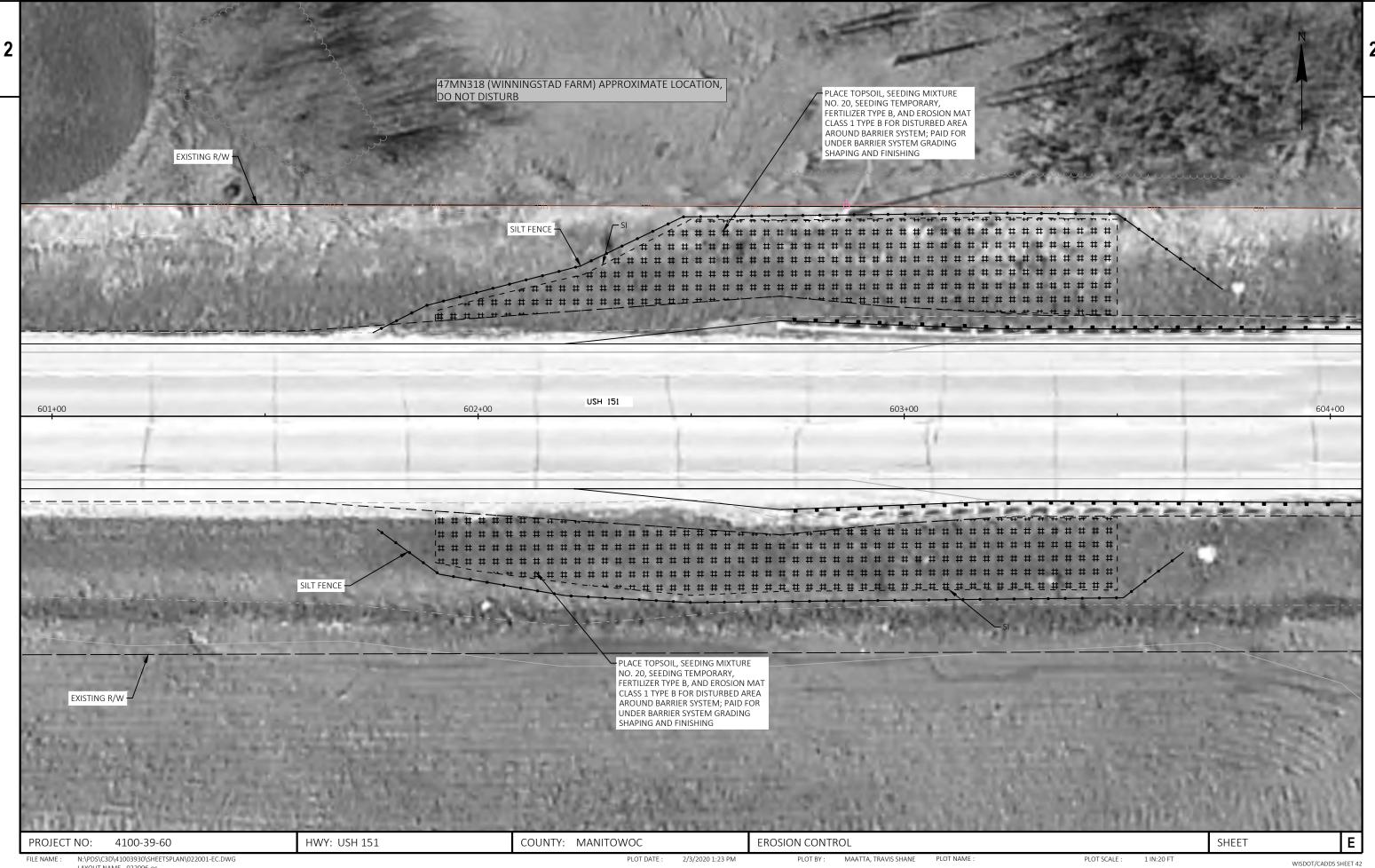


WISDOT/CADDS SHEET 42



LAYOUT NAME - 022004-ec





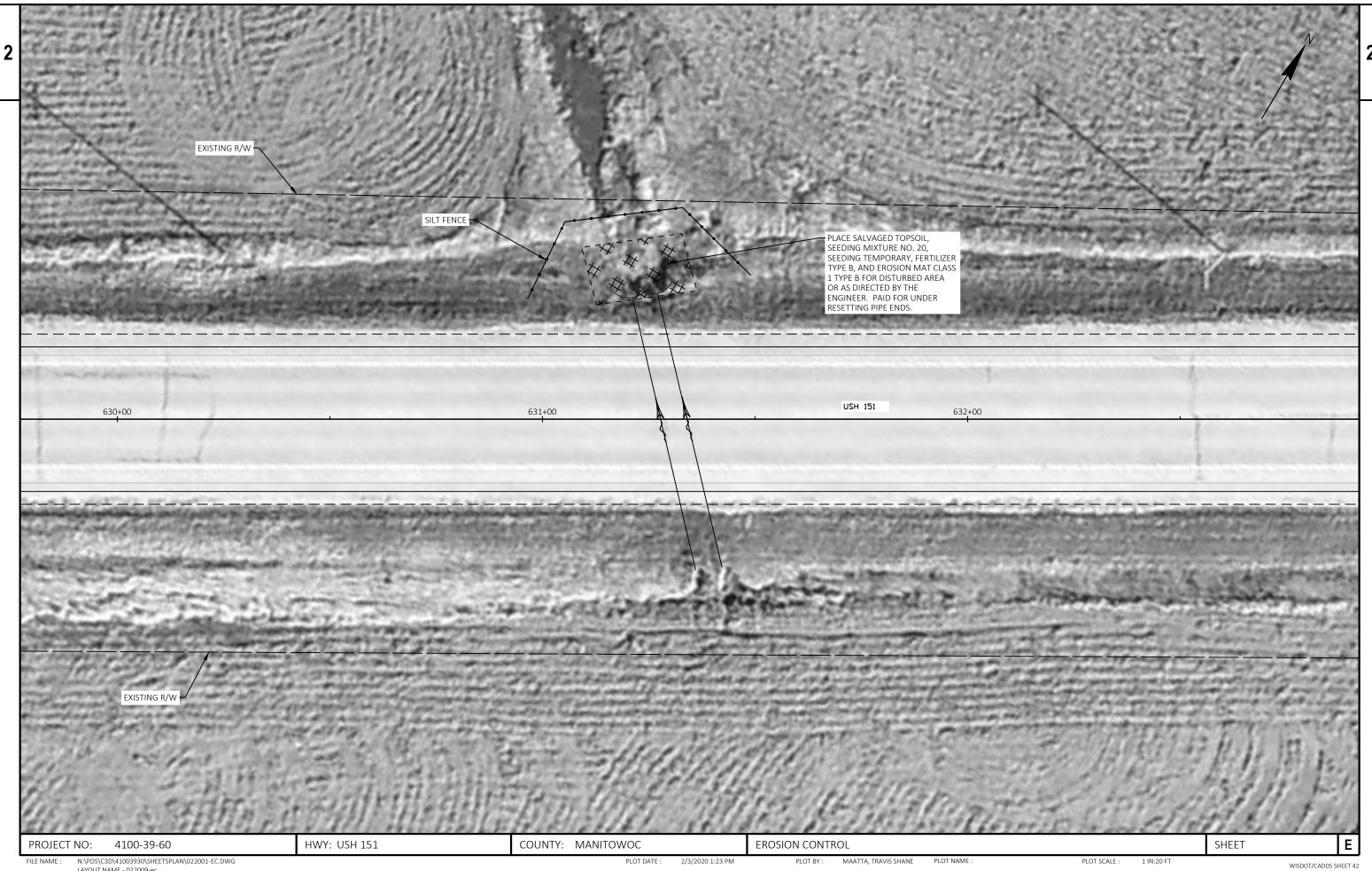
PLOT BY: MAATTA, TRAVIS SHANE N:\PDS\C3D\41003930\SHEETSPLAN\022001-EC.DWG PLOT DATE : PLOT NAME : PLOT SCALE : 1 IN:20 FT 2/3/2020 1:23 PM LAYOUT NAME - 022006-ec



LAYOUT NAME - 022007-ec

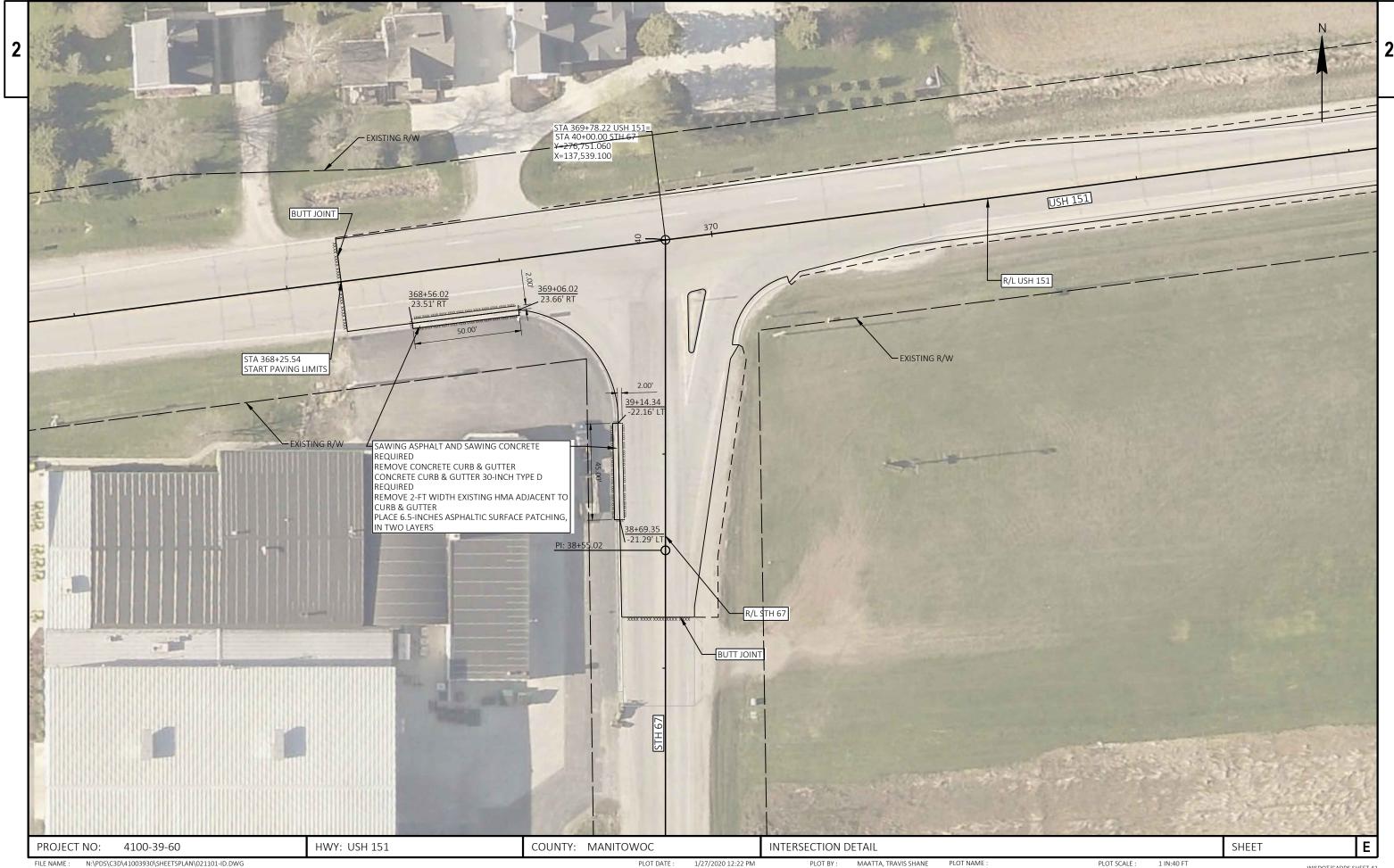


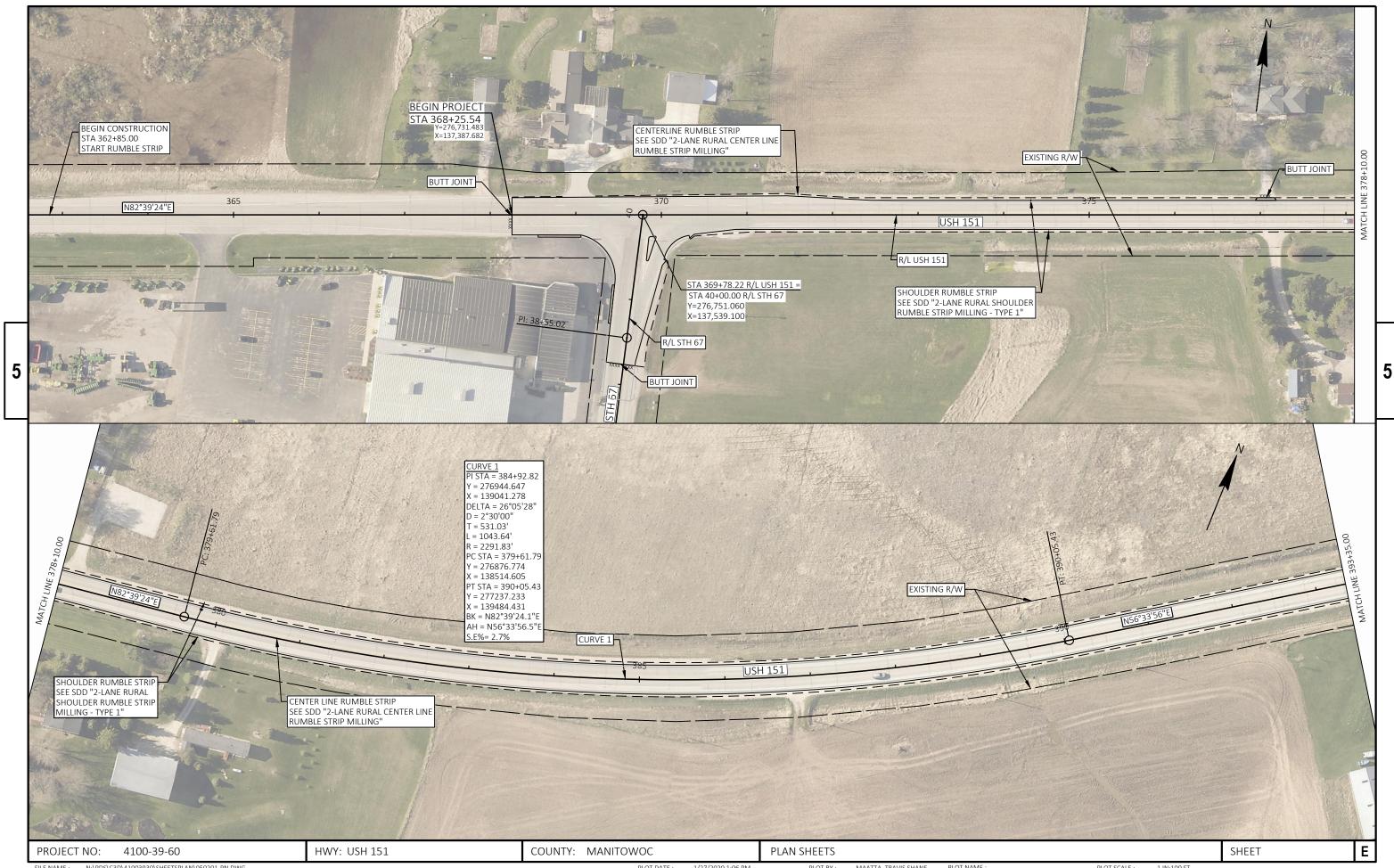
WISDOT/CADDS SHEET 42



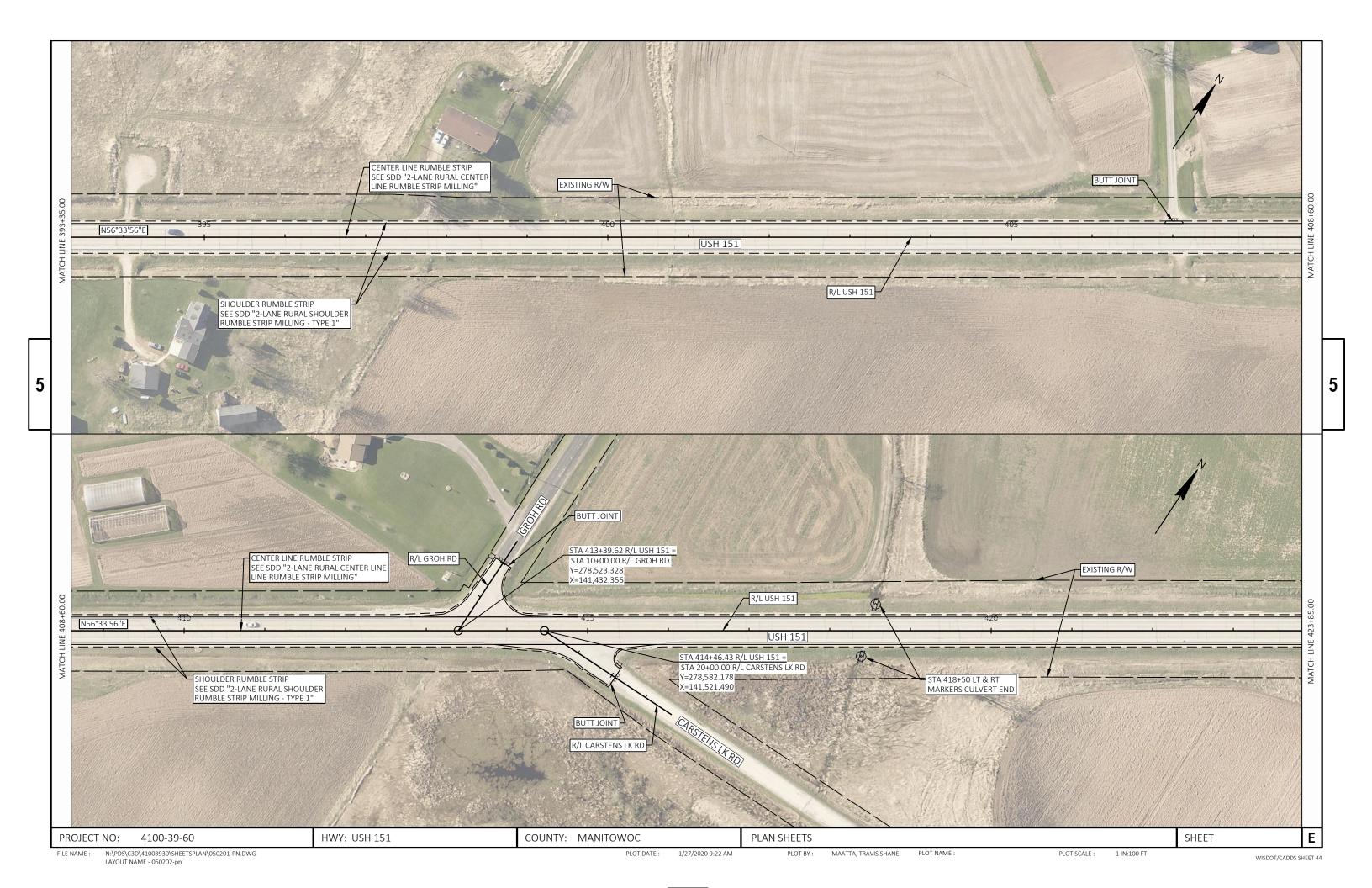
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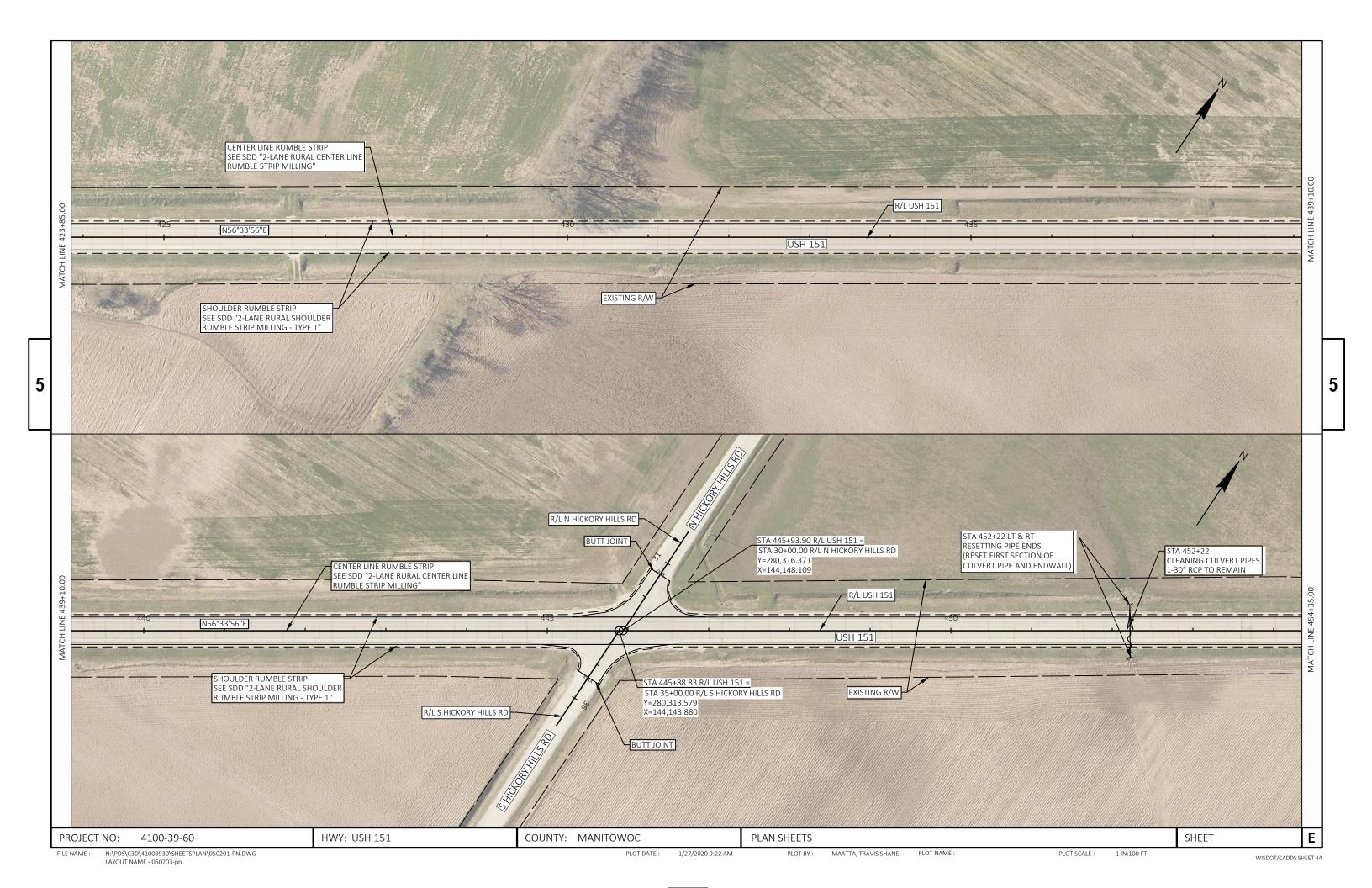


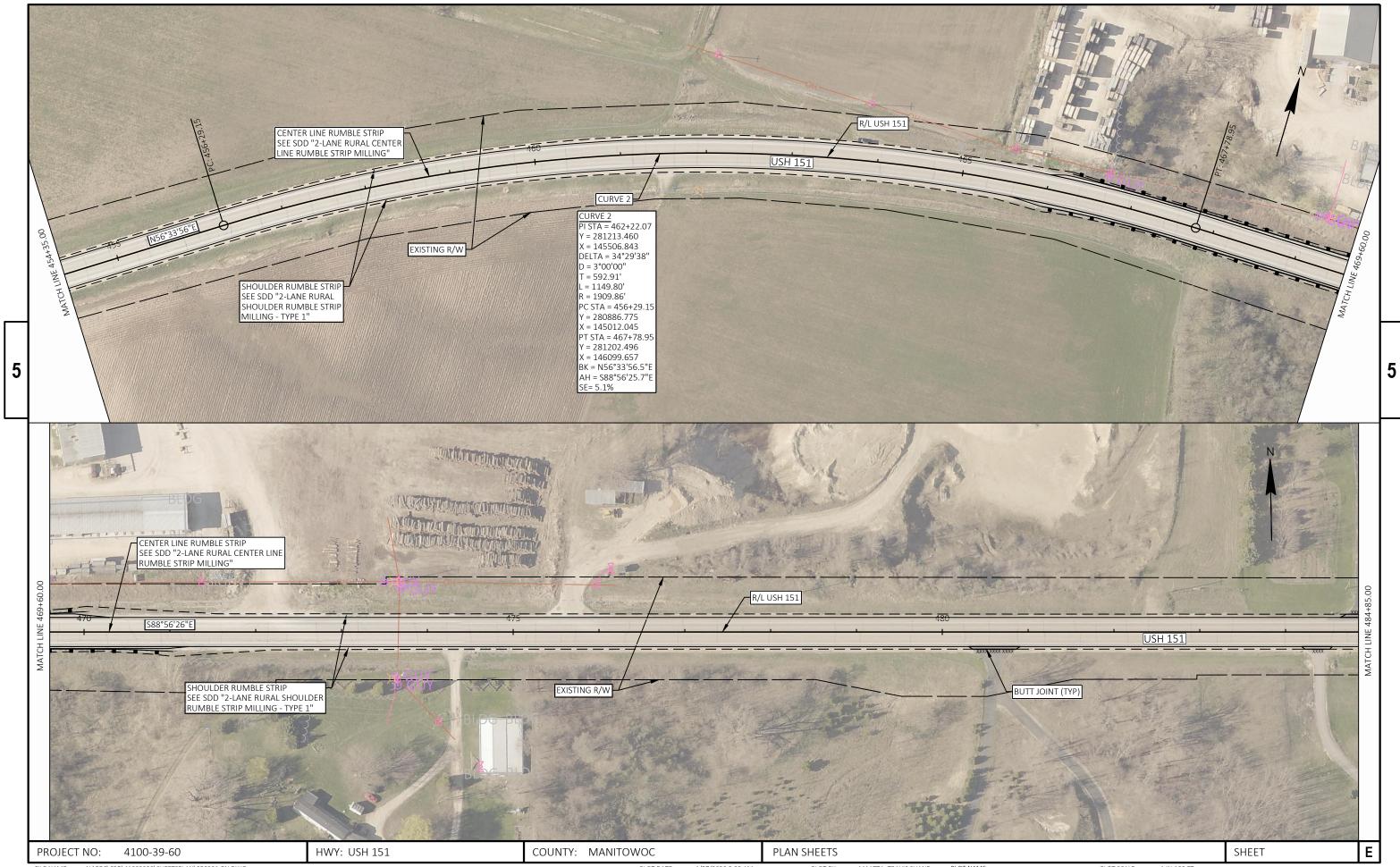




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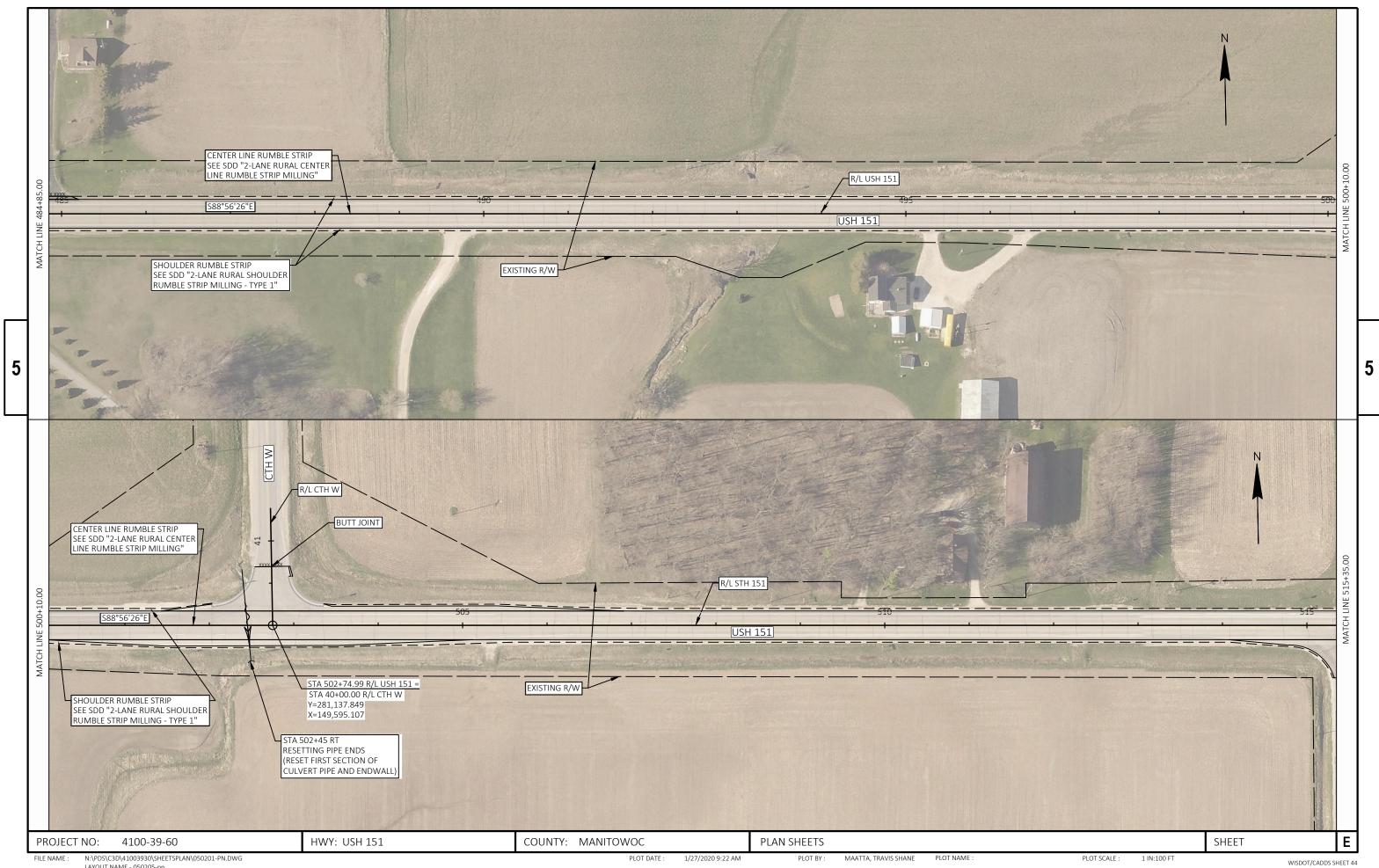






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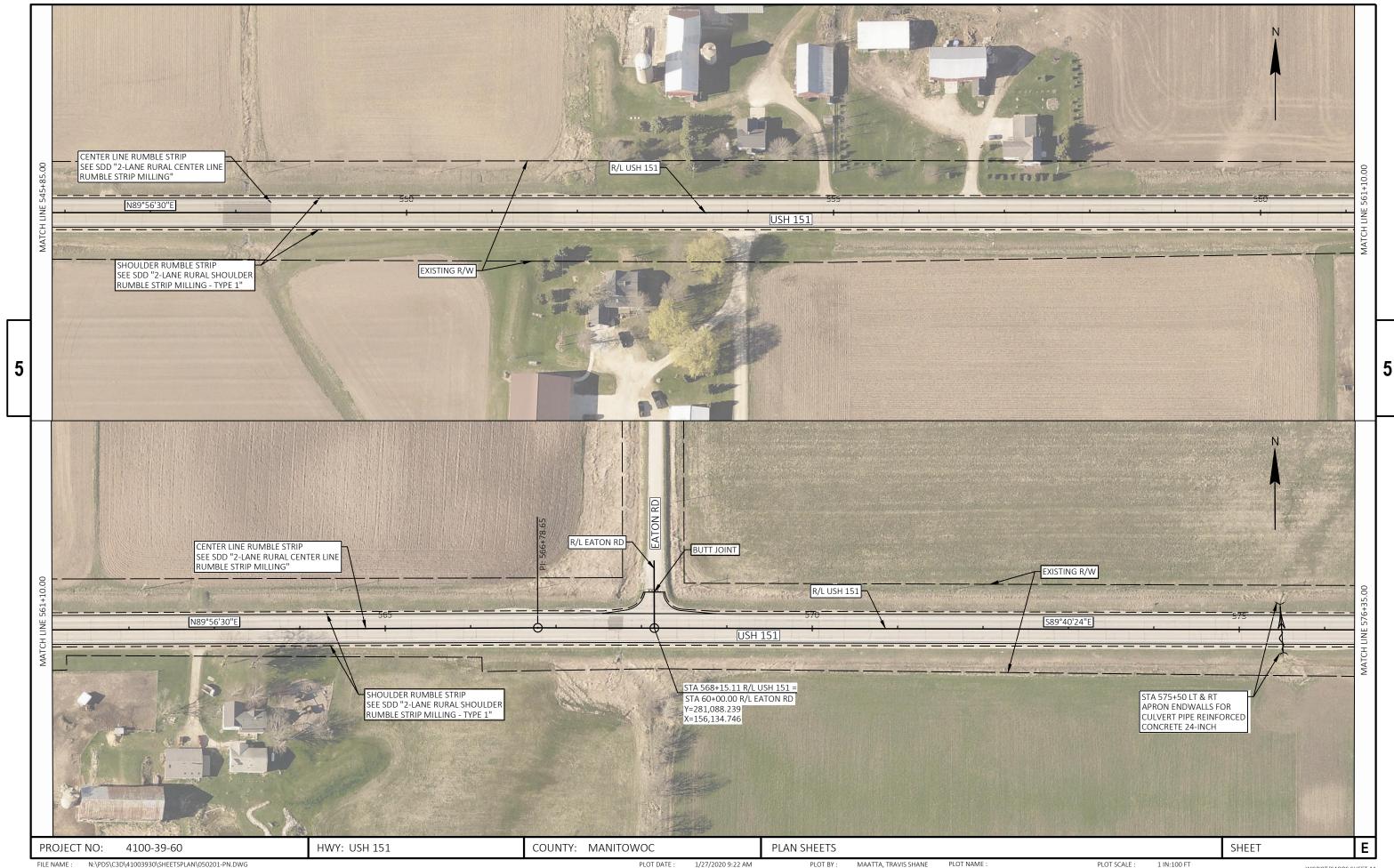
LAYOUT NAME - 050204-pn



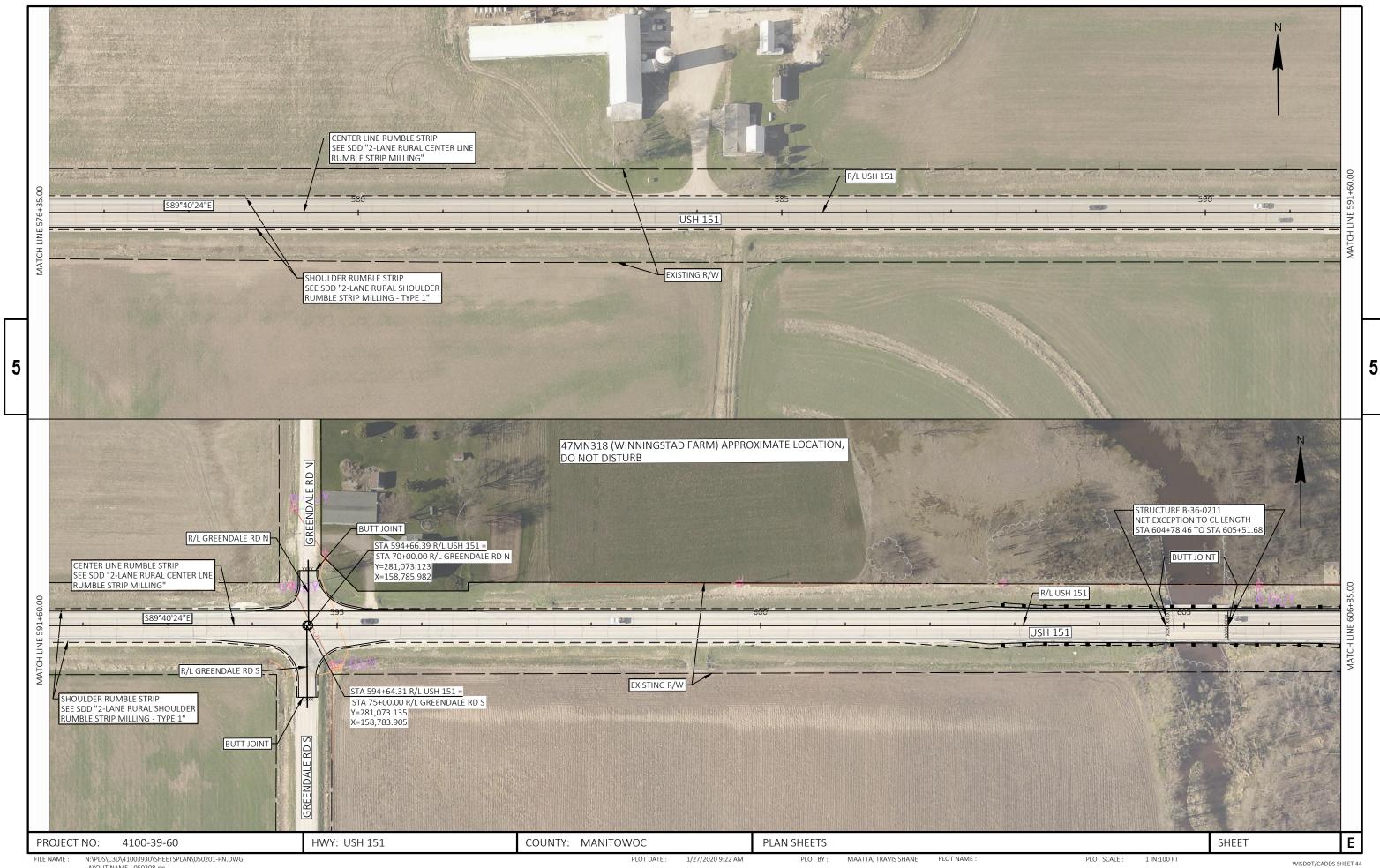
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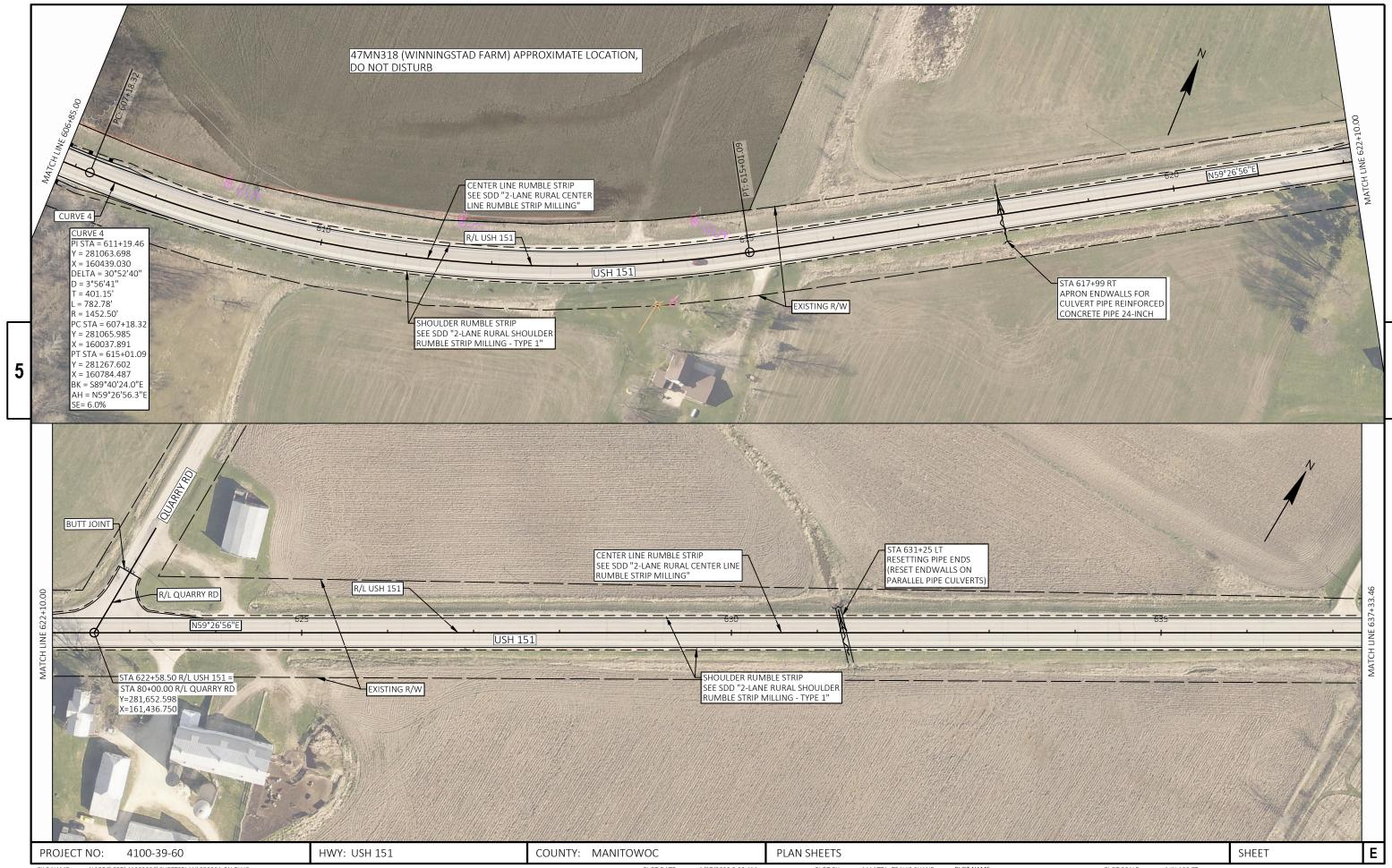
N:\PDS\C3D\41003930\SHEETSPLAN\050201-PN.DWG 1/27/2020 9:22 AM MAATTA, TRAVIS SHANE PLOT SCALE : 1 IN:100 FT WISDOT/CADDS SHEET 44 LAYOUT NAME - 050206-pn



N:\PDS\C3D\41003930\SHEETSPLAN\050201-PN.DWG 1/27/2020 9:22 AM PLOT BY: MAATTA, TRAVIS SHANE PLOT SCALE : 1 IN:100 FT WISDOT/CADDS SHEET 44 LAYOUT NAME - 050207-pn

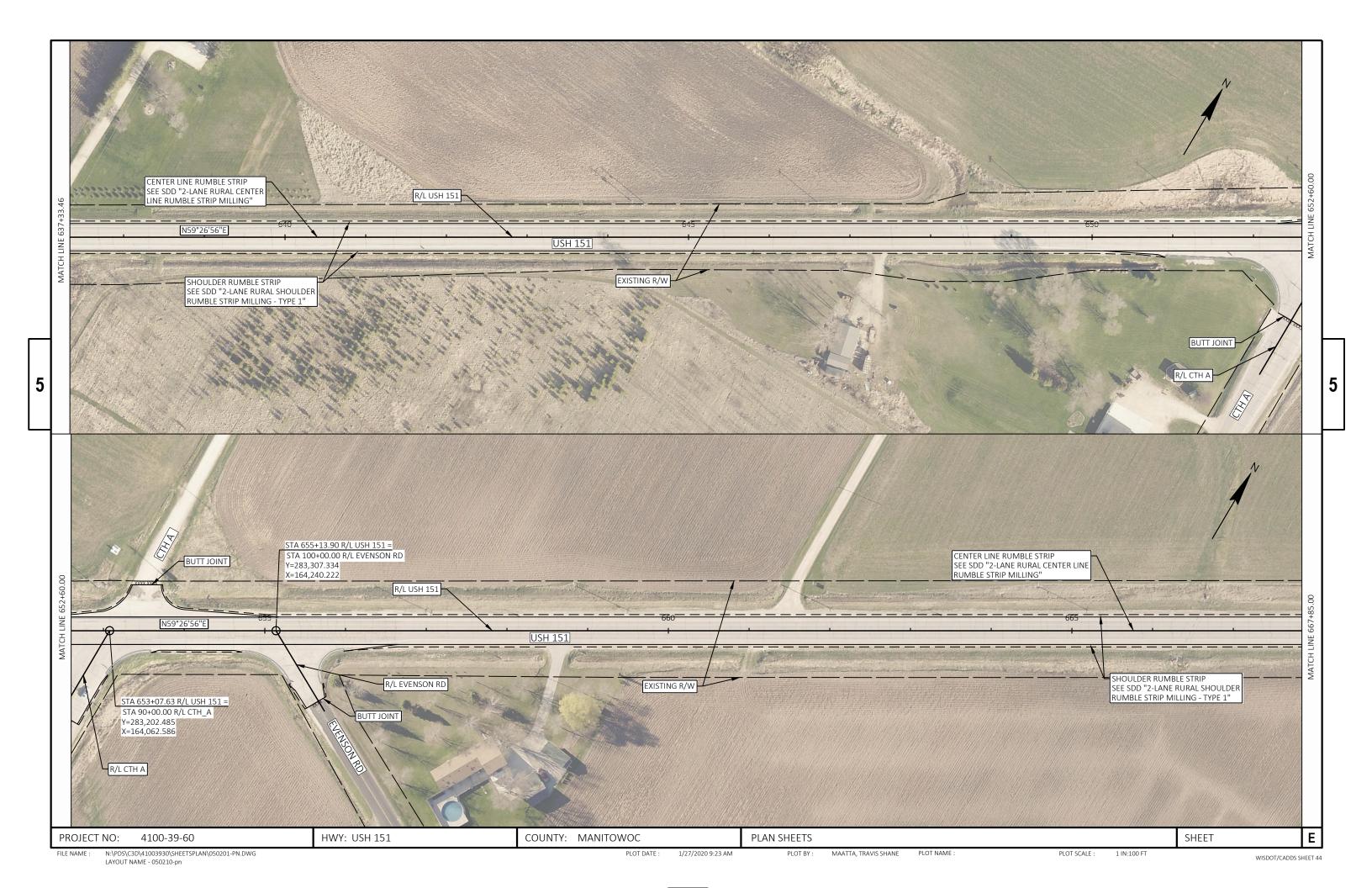


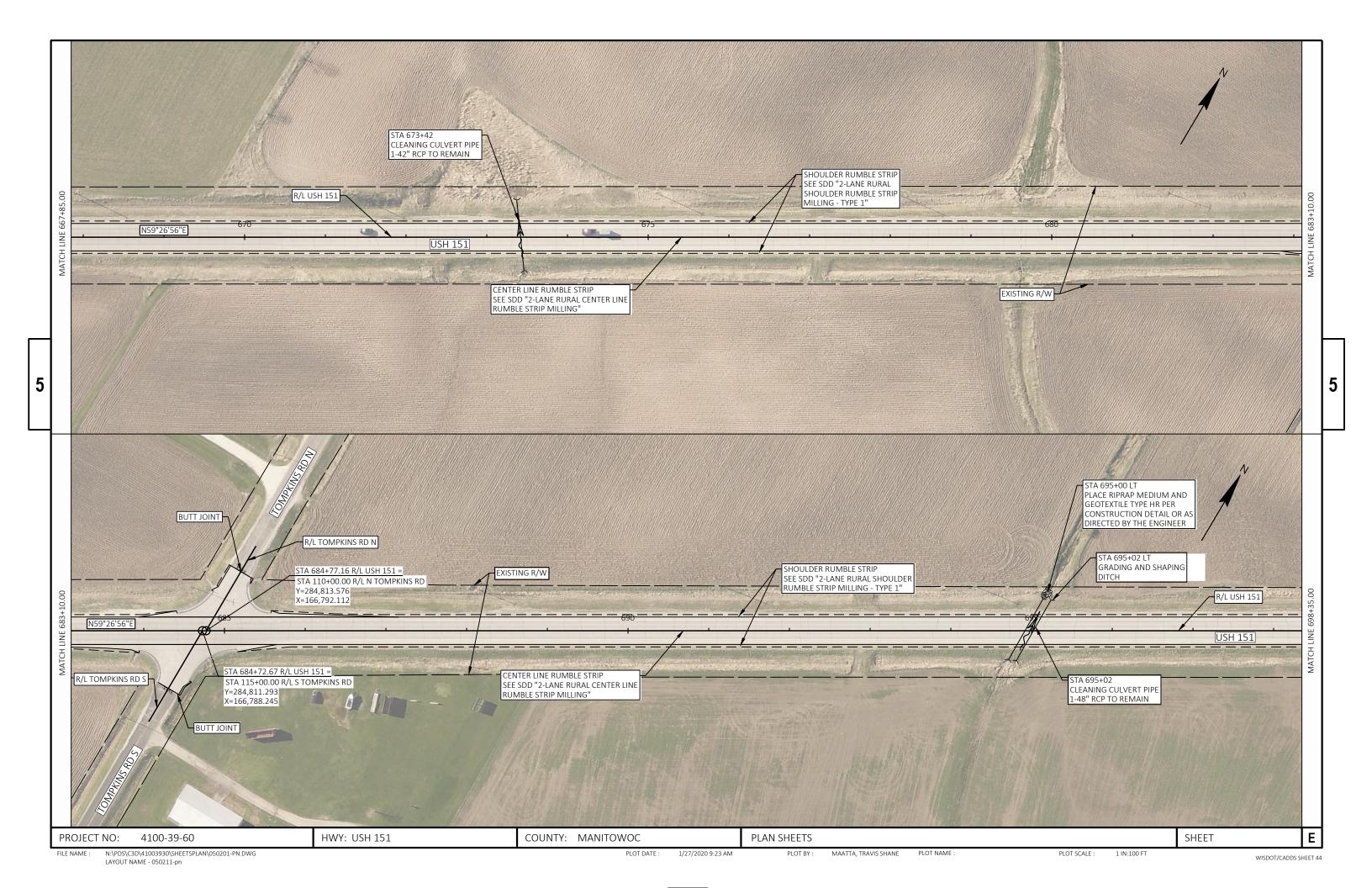
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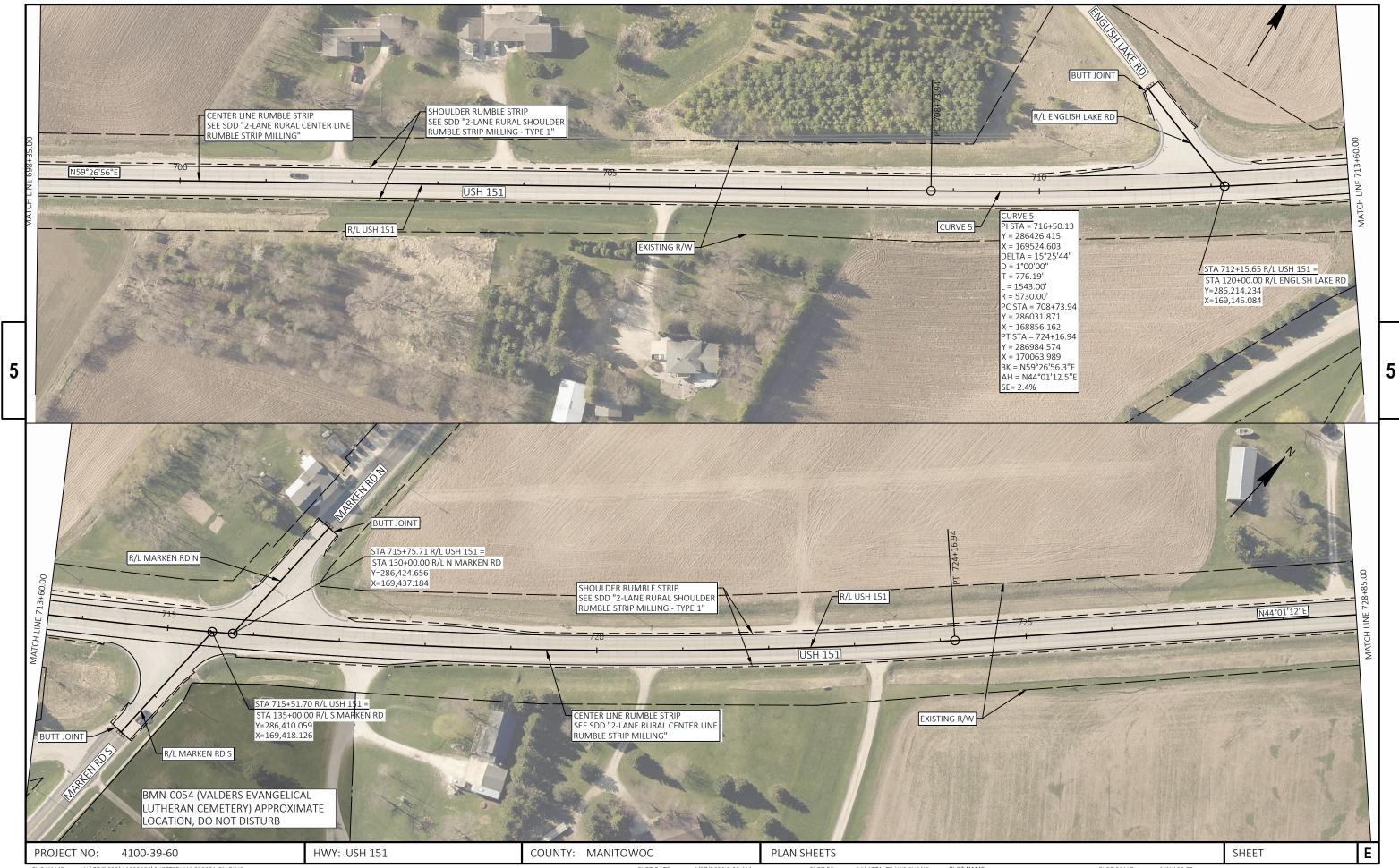


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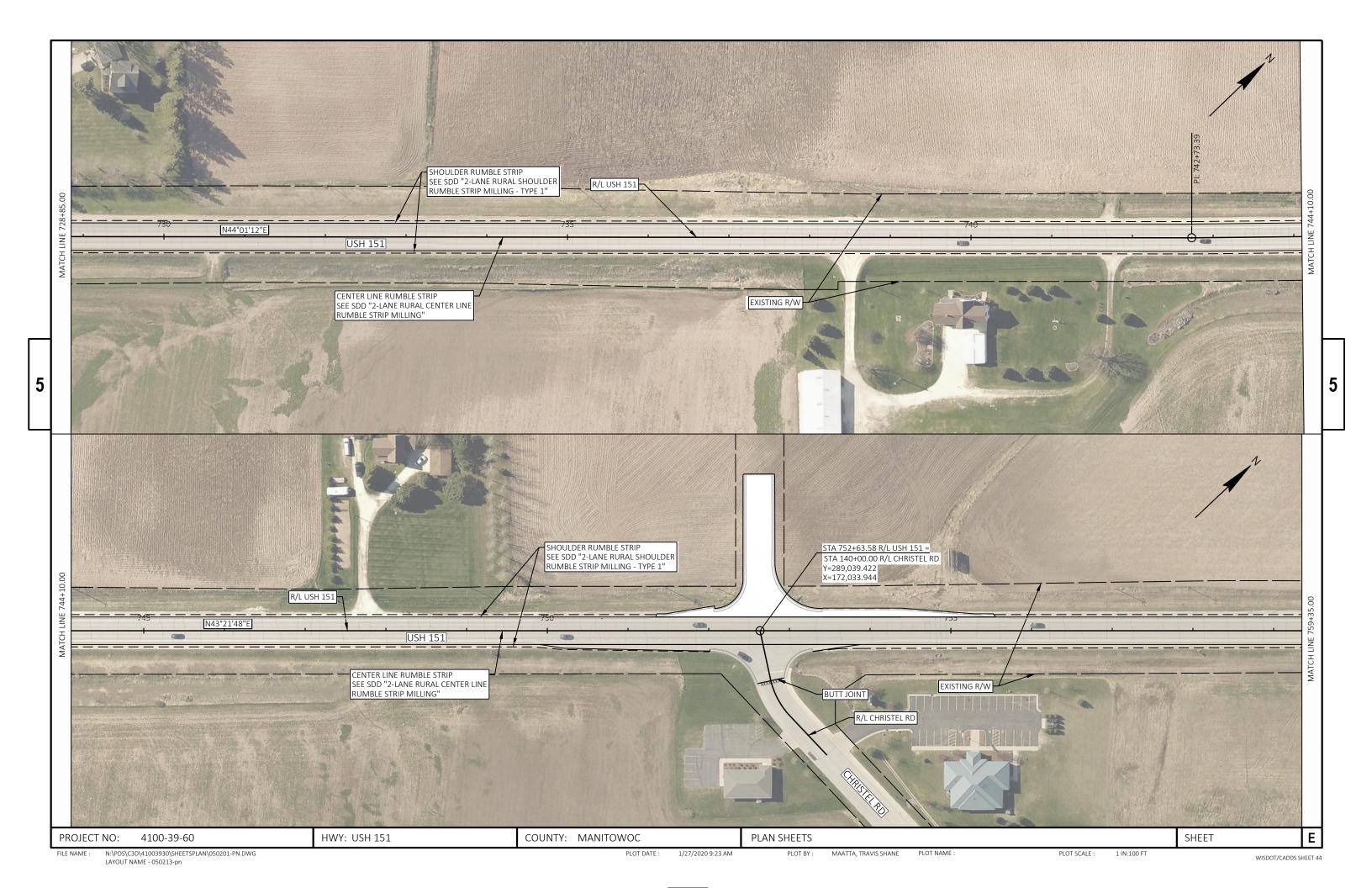
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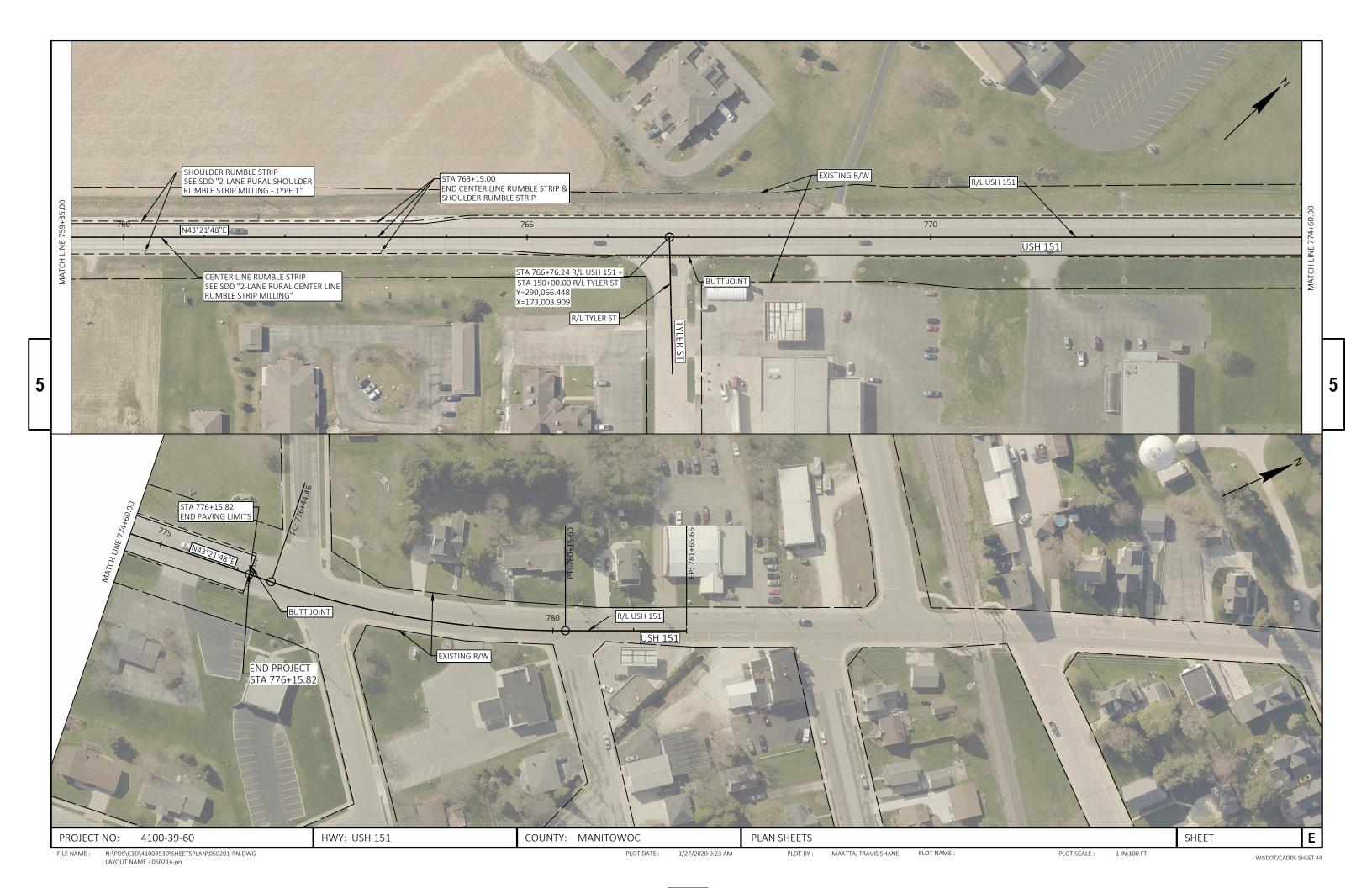


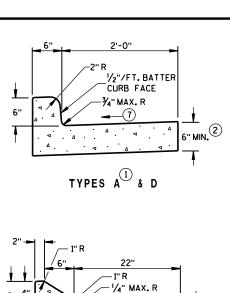


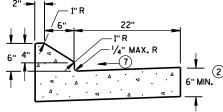


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USDOT/CADDS SHEET 44

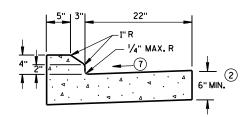




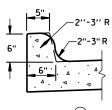




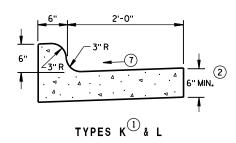




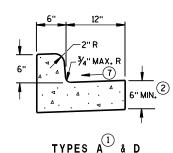
4" SLOPED CURB TYPES G 4 J



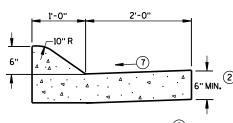
TYPES K & L
(OPTIONAL CURB SHAPE)



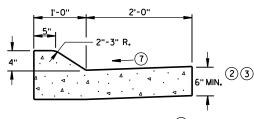
CONCRETE CURB & GUTTER 30"



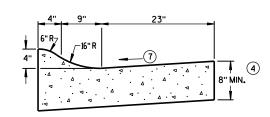
CONCRETE CURB & GUTTER 18"



6" SLOPED CURB TYPES A & D

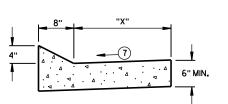


4" SLOPED CURB TYPES A D



4" SLOPED CURB TYPES R T & T

CONCRETE CURB & GUTTER 36"



TYPES TBT & TBTT $^{ ext{\scriptsize (1)}}$

CONCRETE CURB & GUTTER

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

GENERAL NOTES

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

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

INTEGRAL CURB & GUTTER SHALL CONFORM TO THE DETAILS SHOWN FOR CONCRETE CURB & GUTTER INCLUDING THE TRANSVERSE GUTTER SLOPE.

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

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

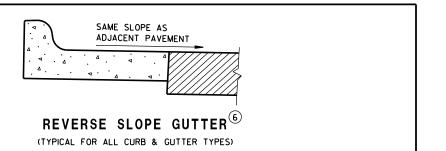
- (1) TIE BARS ARE REQUIRED FOR CURB AND GUTTER TYPES A, G, K, R AND TBTT.
- (2) THE BOTTOM OF CURB AND GUTTER MAY BE CONSTRUCTED EITHER LEVEL OR PARALLEL TO THE SLOPE OF THE SUBGRADE OR BASE AGGREGATE PROVIDED A 6" MINIMUM GUTTER THICKNESS IS MAINTAINED.
- (3) USE 8" MINIMUM GUTTER THICKNESS WHEN USED WITH AN ADJACENT CONCRETE TRUCK APRON PLACED BEHIND BACK OF CURB.
- (4) THE BOTTOM OF CURB AND GUTTER MAY BE CONSTRUCTED EITHER LEVEL OR PARALLEL TO THE SLOPE OF THE SUBGRADE OR BASE AGGREGATE PROVIDED A 8" MINIMUM GUTTER THICKNESS IS MAINTAINED.
- (5) THE FACE OF CURB IS 6" FROM THE BACK OF CURB.
- (6) WHEN REVERSE SLOPE GUTTER IS REQUIRED, THE LOCATION(S) WILL BE SHOWN ELSEWHERE IN THE PLAN.
- (7) USE 4% GUTTER CROSS SLOPE UNLESS OTHERWISE NOTED IN THE PLANS.
- (8) INCLUDE LONGITUDINAL JOINT AND TIE BARS ALONG LANE EDGE WHEN CONCRETE PANEL WIDTH EXCEEDS THE MAXIMUM WIDTH PER TABLE BELOW. LONGITUDINAL JOINT(S) ARE NOT ALLOWED WITHIN TRAFFIC LANES AND BIKE LANES. LONGITUDINAL JOINT MAY BE SAWED.

PAVEMENT THICKNESS AND MAXIMUM CONCRETE PANEL WIDTH TABLE

PAVEMENT THICKNESS	MAXIMUM PANEL WIDTH
LESS THAN 10"	12'
10" & ABOVE	15'

CONCRETE PANEL WIDTH SAME PAY LIMITS AS CURB & GUTTER REPAY LIMITS AS CURB & GUTTER AS CURB

PARTIAL SECTION OF PAVEMENT WITH INTEGRAL CURB & GUTTER



CONCRETE CURB & GUTTER

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

6

D.D. 8 D 1-20a

^{*} BIKE LANE IS NOT SHOWN.

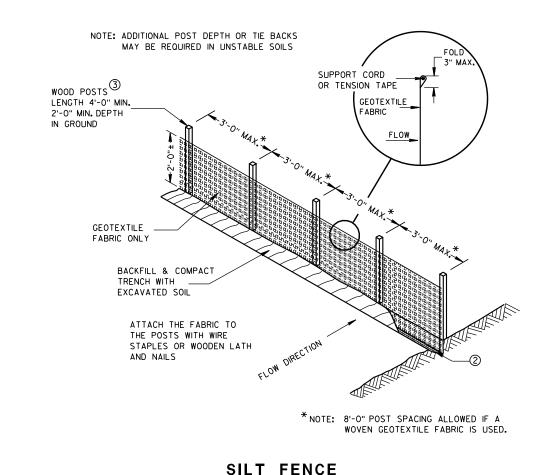
TYPICAL APPLICATION OF SILT FENCE

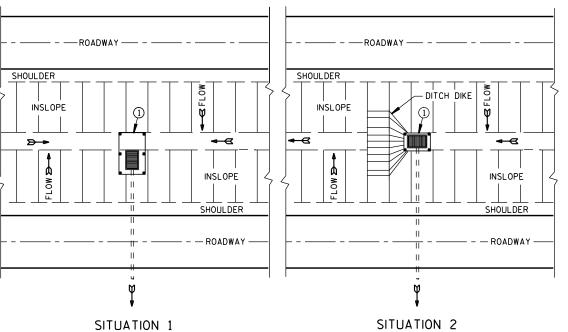
6

b

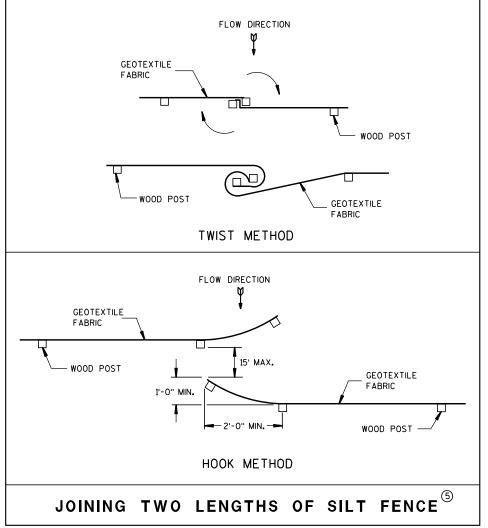
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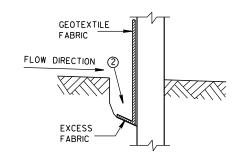
PLAN VIEW SILT FENCE AT MEDIAN SURFACE DRAINS



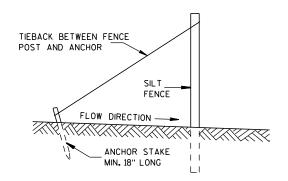
GENERAL NOTES

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

- ① HORIZONTAL BRACE REQUIRED WITH 2" X 4" WOODEN FRAME OR EQUIVALENT AT TOP OF POSTS.
- 2 FOR MANUAL INSTALLATIONS THE TRENCH SHALL BE A MINIMUM OF 4" WIDE & 6" DEEP TO BURY AND ANCHOR THE GEOTEXTILE FABRIC. FOLD MATERIAL TO FIT TRENCH AND BACKFILL & COMPACT TRENCH WITH EXCAVATED SOIL.
- 3 WOOD POSTS SHALL BE A MINIMUM SIZE OF 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.

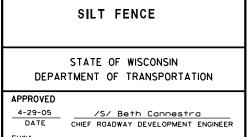


TRENCH DETAIL



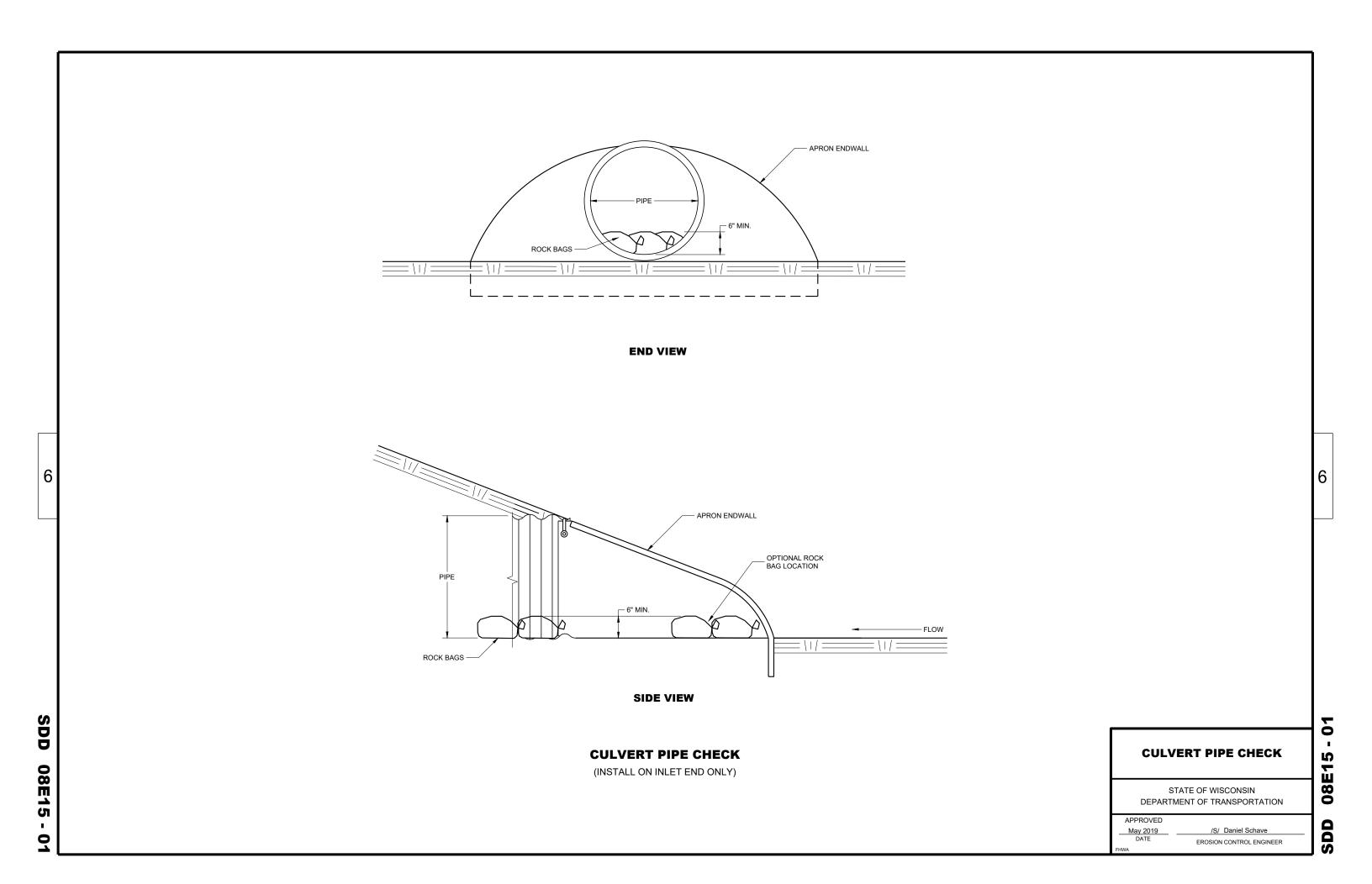
SILT FENCE TIE BACK

(WHEN REQUIRED BY THE ENGINEER)



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METAL APRON ENDWALLS											
PIPE	MIN. T	HICK.		DIMENSIONS (Inches)				APPROX.			
DIA.	(Inch	nes)	Α	В	Н	L	L ₁	L ₂	W	SLOPE	BODY
(IN.)	STEEL	ALUM.	(±]")	(MAX.)	(±]")	(±1½")	1	1	(±2")	JLUFE	
12	.064	.060	6	6	6	21	12	171/2	24	21/2+o 1	1Pc.
15	.064	.060	7	8	6	26	14	213/4	30	21/2+o 1	1Pc.
18	.064	.060	8	10	6	31	15	28 ¹ / 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	2½+o 1	1 Pc.
30	.079	.075	12	16	8	51	18	52 ¹ / ₄	60	21/2+0 1	1Pc.
36	.079	.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 ¹ / ₄ +o 1	3 Pc.
54	.109	.105	18	30	12	84	30	851/2	102	21/4+0 1	3 Pc.
60	.109×	.105×	18	33	12	87	-	-	114	2 to 1	3 Pc.
66	.109×	.105×	18	36	12	87	1	l	120	2 to 1	3 Pc.
72	.109×	.105×	18	39	12	87	1	ı	126	2 to 1	3 Pc.
78	.109×	.105×	18	42	12	87	_	-	132	1½+o 1	3 Pc.
84	.109×	.105×	18	45	12	87		-	138	1½+o 1	3 Pc.
90	.109×	.105×	18	37	12	87		-	144	1½+o 1	3 Pc.
96	.109×	.105×	18	35	12	87	_	_	150	11/2+0 1	3 Pc.

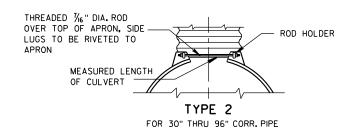
* EXCEPT CENTER PANEL

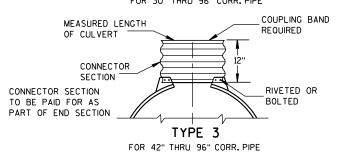
SEE GENERAL NOTES

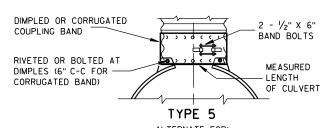
	REINFORCED CONCRETE APRON ENDWALLS								
PIPE		DIMENSIONS (Inches)							
DIA.	T	A	В	С	D	E	G	APPROX. SLOPE	
12	2	4	24	48 1/8	721/8	24	2	3 to 1	
15	21/4	6	27	46	73	30	21/4	3 to 1	
18	$2\frac{1}{2}$	9	27	46	73	36	21/2	3 to 1	
21	23/4	9	36	371/2	731/2	42	23/4	3 to 1	
24	3	91/2	431/2	30	731/2	48	3	3 to 1	
27	31/4		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	27	65	331/4-35	* 98 ¹ /4- 100	90	51/2	2% to 1	
60	6	* ** 30-35	60	39	99	96	5	2 to 1	
66	61/2		* ** 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 76" DIA. ROD AROUND CULVERT & THROUGH CONNECTOR LUG TANK TYPE CONNECTOR LUG OR ALTERNATE CONNECTOR STRAP (SEE DETAIL) MEASURED LENGTH OF CULVERT TYPE 1 FOR 12" THRU 24" CORR. PIPE

END SECTION CONNECTOR STRAP







ALTERNATE FOR: ALL SIZES CORRUGATED CIRCULAR PIPE

NOTE: DIMPLED BAND FITS OVER OUTSIDE OF ENDWALL. AND CORRUGATED BAND FITS INSIDE ENDWALL. DIMPLED BAND MAY BE USED WITH HELICALLY CORRUGATED PIPE.

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

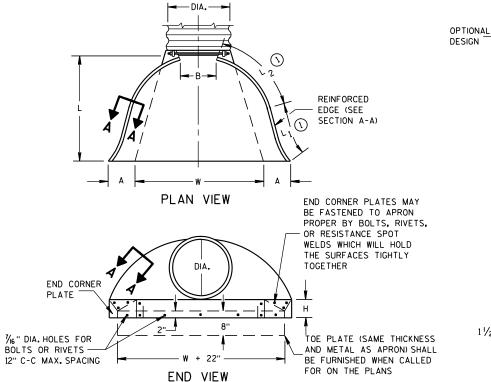
FOR HELICALLY CORRUGATED PIPE USE ENDWALL CONNECTION DETAILS 1, 2 OR 5.

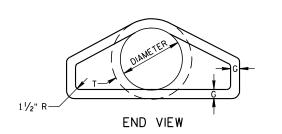
FOR HELICALLY CORRUGATED PIPES WITH TWO CIRCUMFERENTIAL CORRUGATIONS AT EACH END USE ENDWALL CONNECTION DETAILS 1, 2 OR 3.

CONNECTION DETAILS

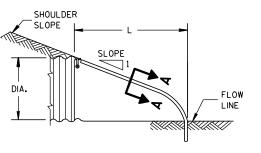
1" WIDE, 12 GA. (0.109" THICK) GALVANIZED STRAP WITH STANDARD 6" X 1/2" BAND BOLT AND NUT ALTERNATE FOR TYPE 1 CONNECTION

*MINIMUM **MAXIMUM

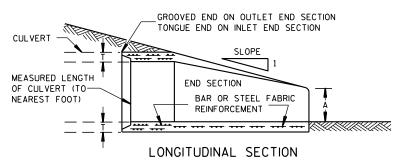




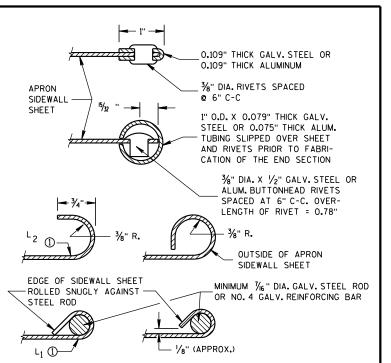
PLAN



SIDE ELEVATION METAL ENDWALLS



CONCRETE ENDWALLS



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.

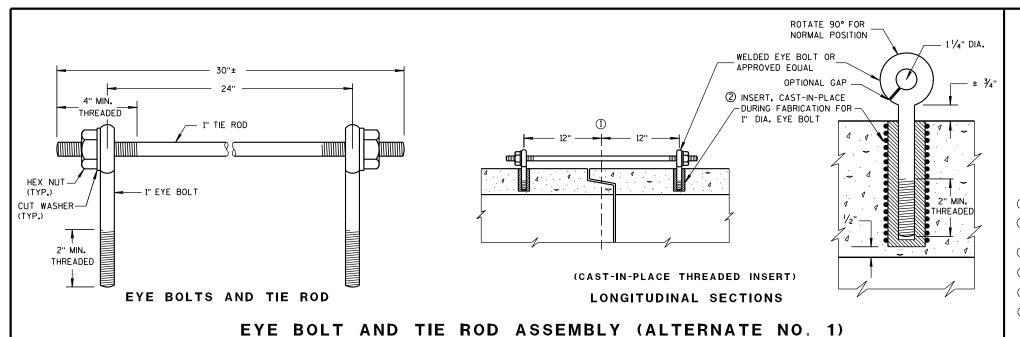
WHERE TWO OR MORE PIPES WITH APRON ENDWALLS ARE LAID ADJACENT TO EACH OTHER, THEY SHALL BE SEPARATED BY A DISTANCE SUFFICIENT TO PROVIDE A MINIMUM CLEARANCE OF 6 INCHES BETWEEN APRON ENDWALLS.

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



STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

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



GENERAL NOTES

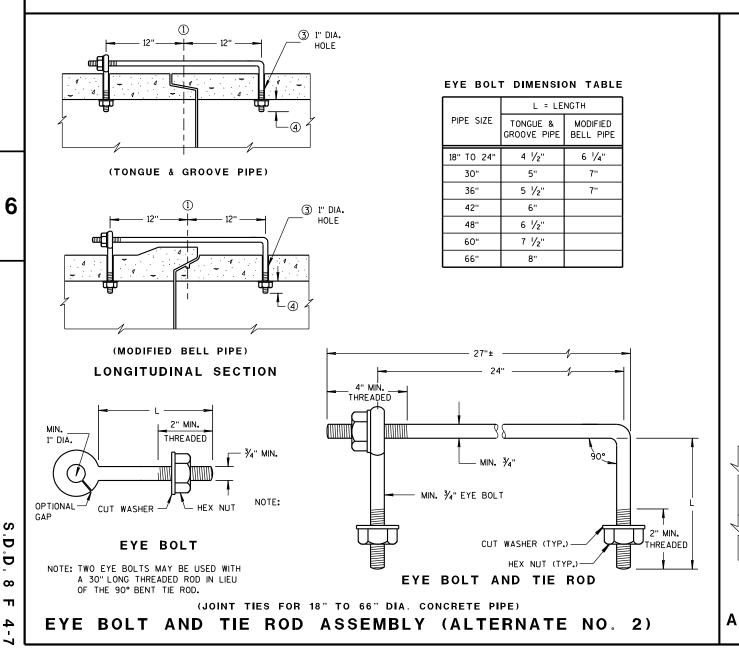
DETAILS OF CONSTRUCTION, MATERIALS, AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND APPLICABLE SPECIAL PROVISIONS.

CONCRETE CULVERT AND STORM SEWER PIPE SHALL BE TIED TOGETHER IN THE MANNER ILLUSTRATED BY THIS DETAIL AT LOCATIONS DESIGNATED IN THE STANDARD SPECIFICATIONS AND THE PLAN. THE CONTRACTOR MAY USE EITHER ALTERNATE 1, 2 OR 3 FOR DRAINAGE STRUCTURES, ONLY ALTERNATE 1 AND 3 MAY BE USED FOR CATTLE PASSES, UNLESS OTHERWISE STATED IN THE CONTRACT. THE MATERIALS, FABRICATION AND WORK NECESSARY TO TIE THE PIPE BY THIS DETAIL WILL BE CONSIDERED INCIDENTAL TO THE PIPE AND APRON ENDWALLS IF REQUIRED.

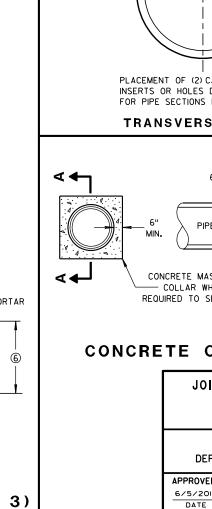
DETAILED DRAWINGS FOR PROPOSED ALTERNATE DESIGNS FOR JOINT TIES SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL.

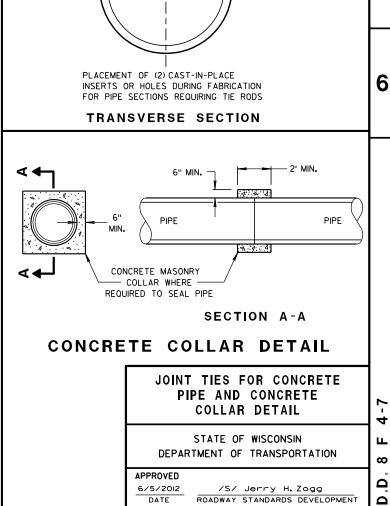
JOINT TIES TO BE HOT-DIP GALVANIZED PER ASTM A 153.

- (1) & OF TONGUE AND GROOVE OR BELL AND SPIGOT JOINTS.
- THE INSIDE OF THE THREADED INSERTS SHALL BE CLEAN TO ALLOW THE INSERTION OF THREADED EYE
- ${\mathfrak S}$ HOLES SHALL BE CAST-IN-PLACE OR DRILLED 12 INCHES FROM ${\mathfrak L}$ OF TONGUE AND GROOVE.
- 4 BOLT PROJECTION INSIDE OF PIPE SHALL NOT EXCEED 2 INCHES.
- (5) OPENING TO BE ROD DIAMETER PLUS 1 INCH.
- ⑥ LENGTH ADEQUATE TO EXTEND TO WITHIN $rac{1}{2}$ INCH OF THE INNER SURFACE OF THE PIPE.

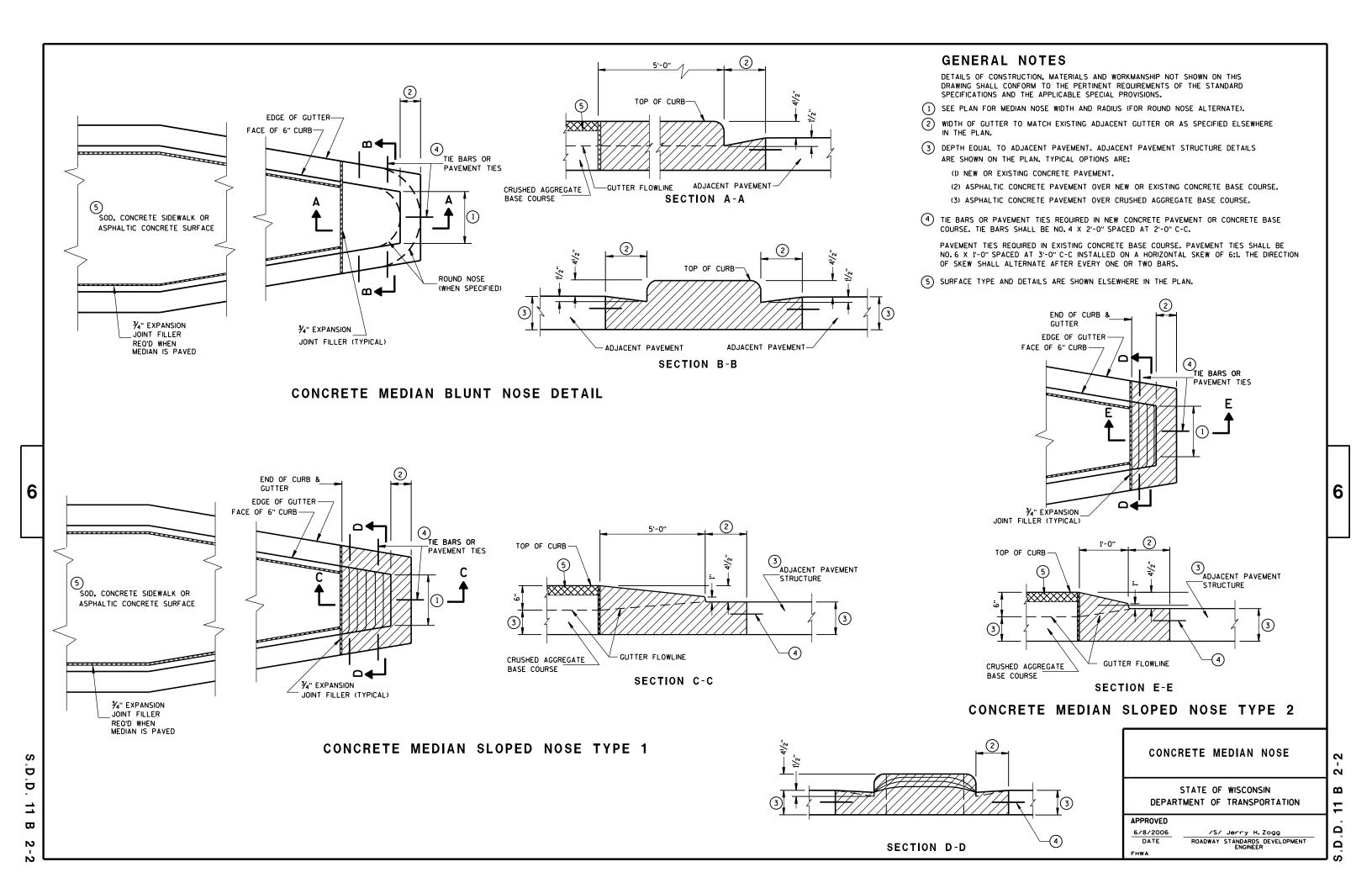


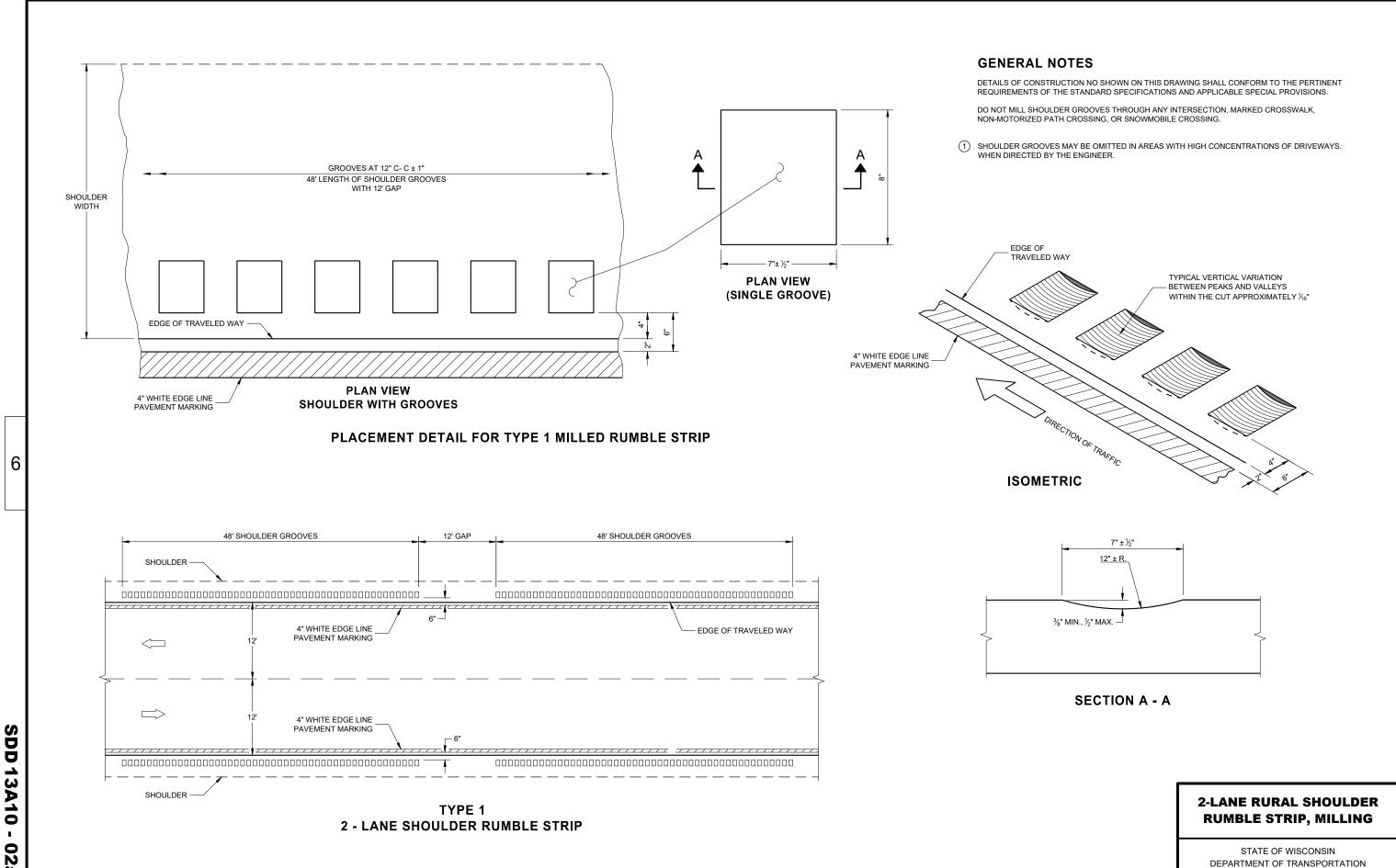
ADJUSTABLE TIE ROD TABLE 5/8 5 12-60 3/4 5 1/2 3/4 90-108 DIMENSIONS SHOWN ARE IN INCHES **TAPERED** PLAIN RIGHT AND LEFT THREADS **SLEEVE NUTS** 2 1/2" MIN. THREADED FILL WITH MORTAR SLEEVE NUTS (SEE DETAILS) LONGITUDINAL SECTION (JOINT TIES FOR 12" TO 108" DIA. CONCRETE PIPE) ADJUSTABLE TIE ROD (ALTERNATE NO. 3)



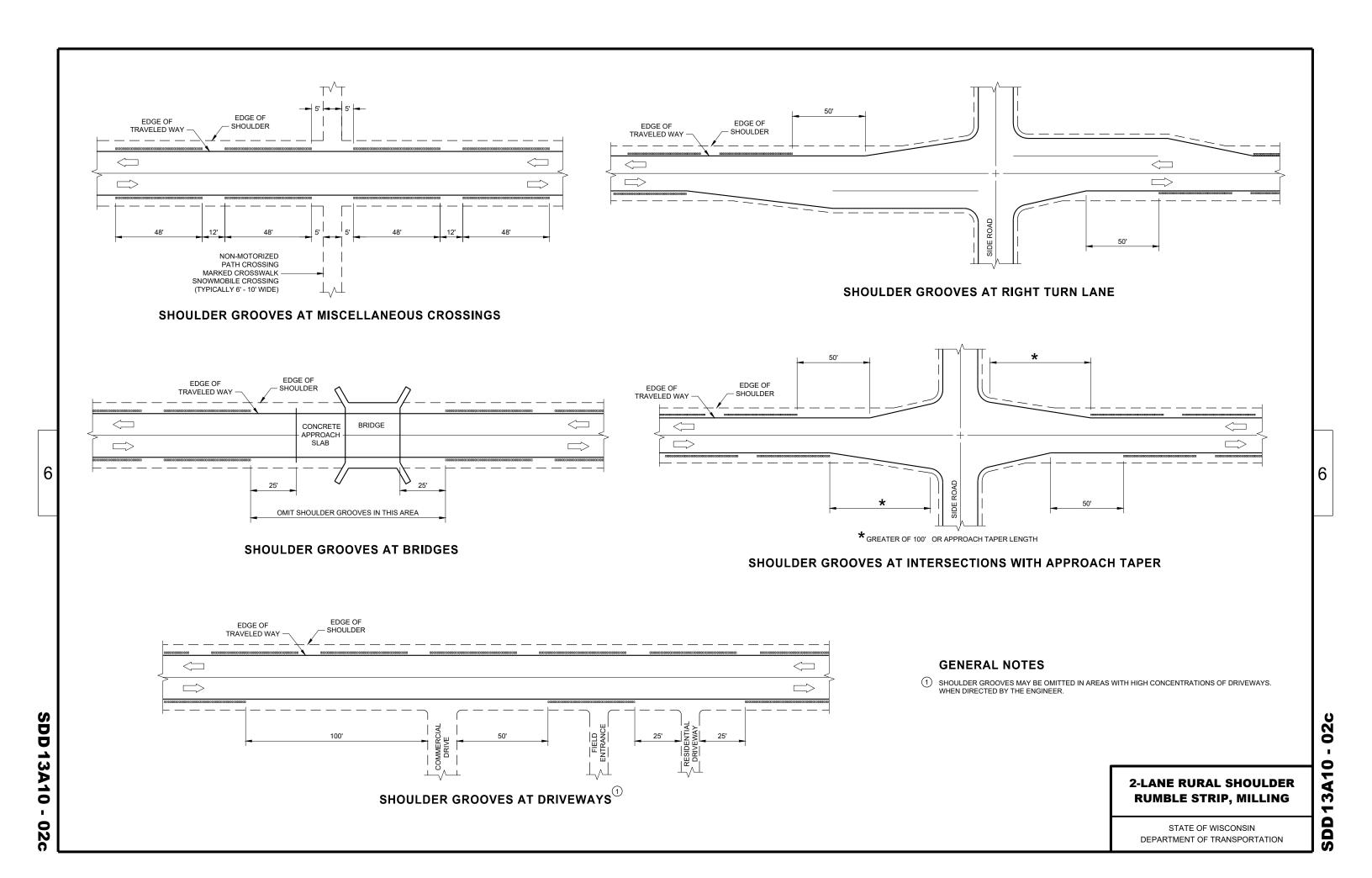


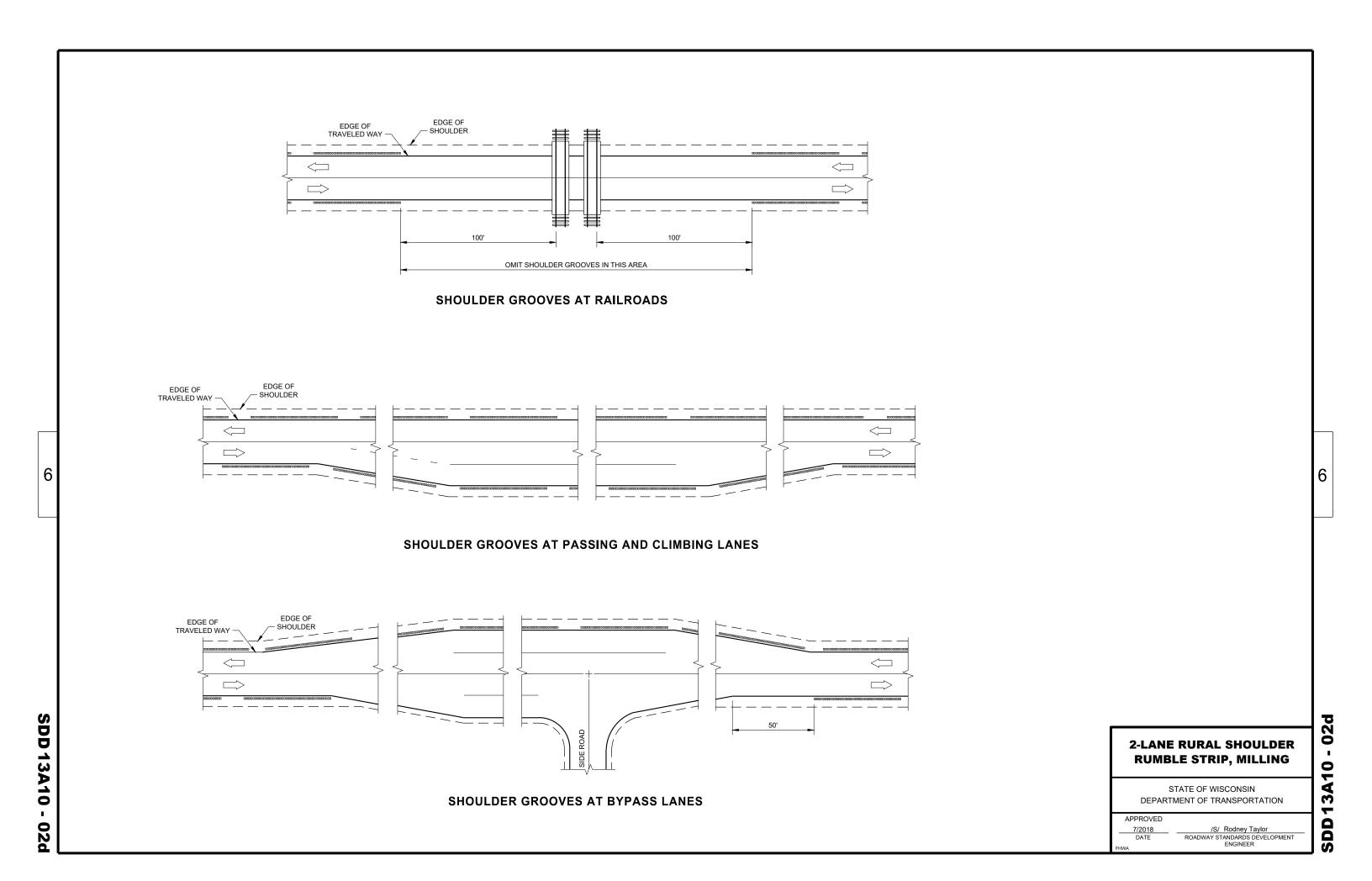
ENGINEER

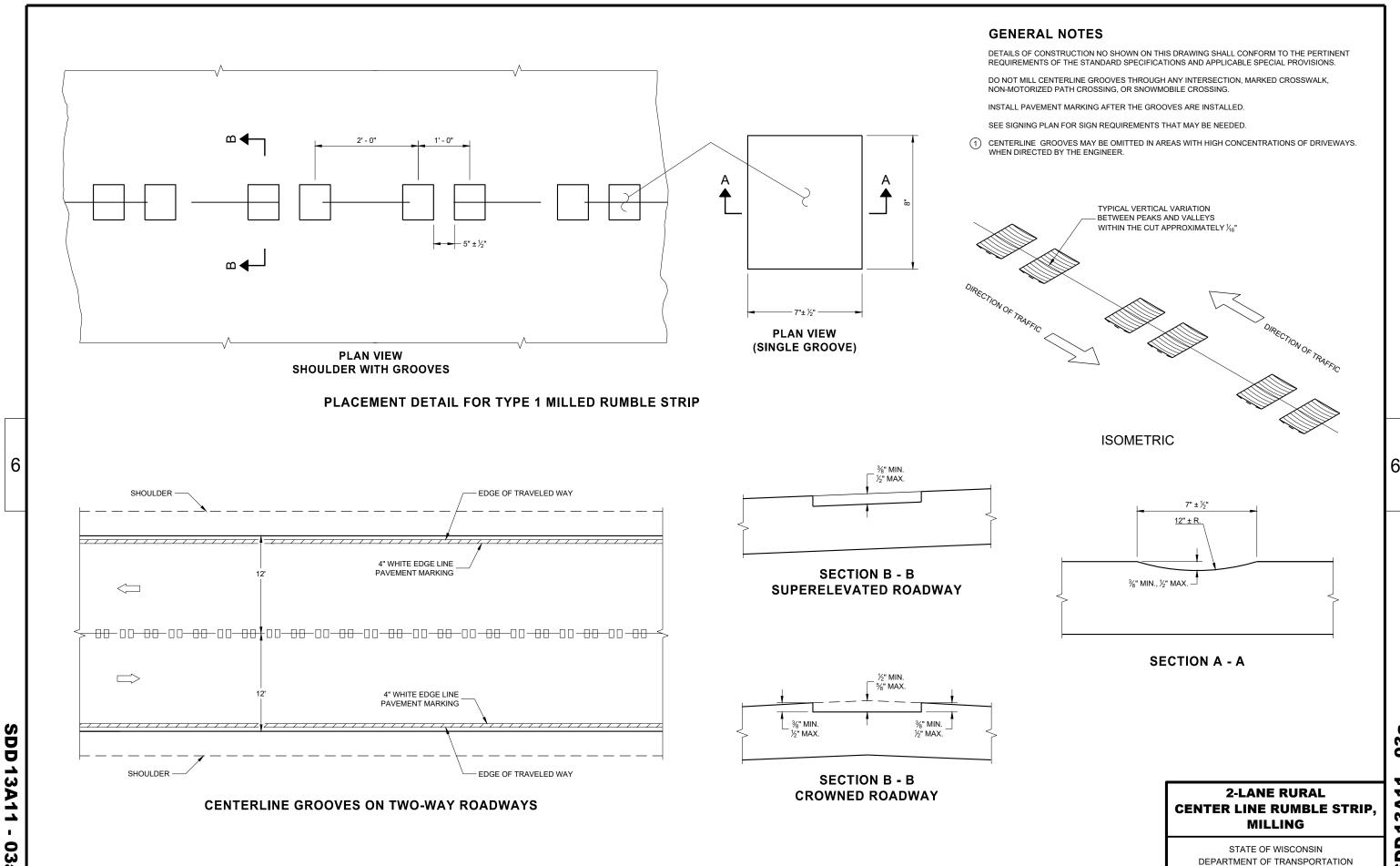




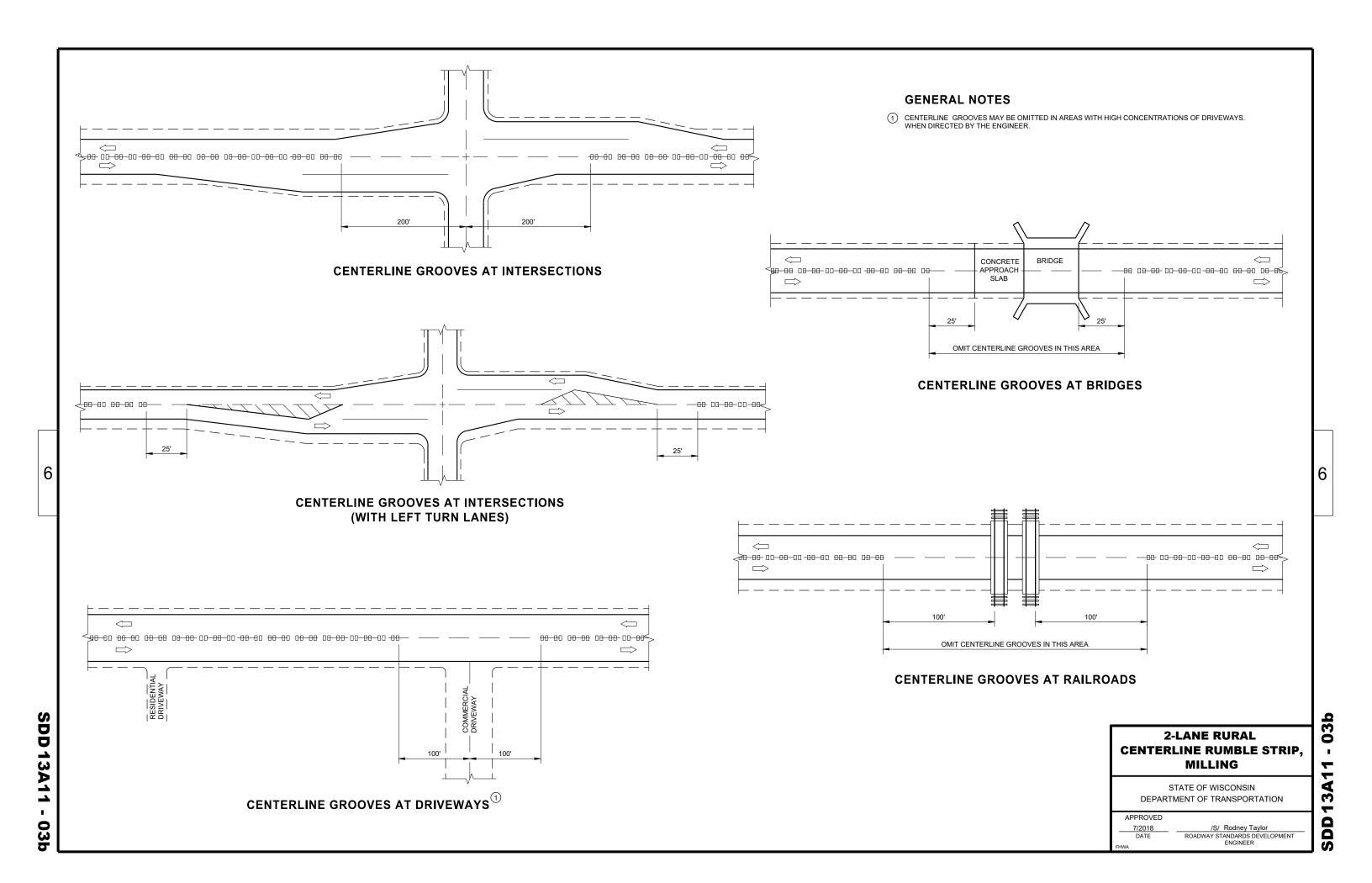
02 13A10 SDD







SDD



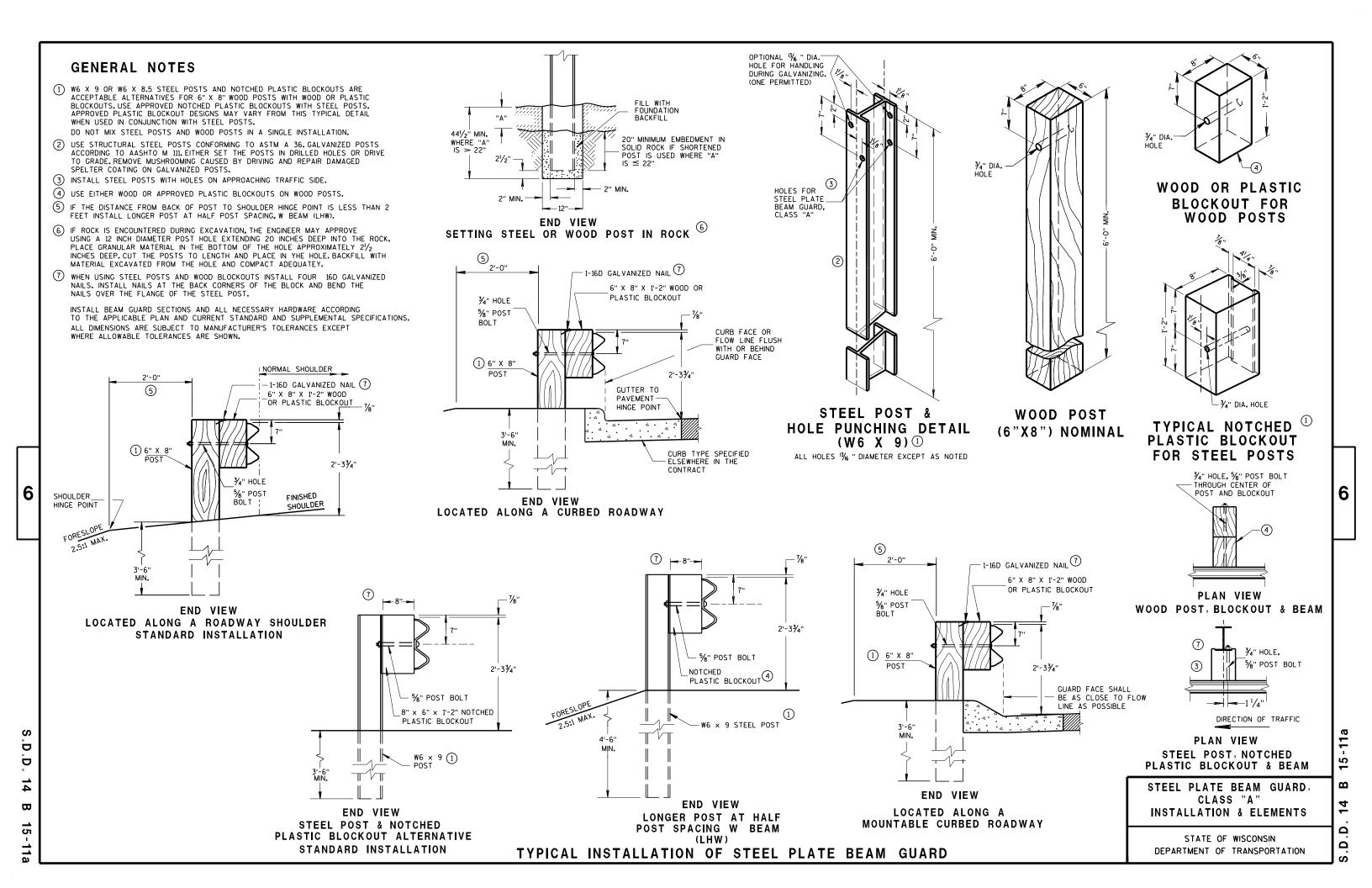
SDD

DEPARTMENT OF TRANSPORTATION

APPROVED

May 2019 DATE /S/ Steven Hefel HMA PAVEMENT ENGINEER

13C19



FRONT VIEW

POST SPACING STANDARD INSTALLATION

12'-6" OR 25'-0" EFFECTIVE LENGTH OF BEAM

3'-1¹/₂" C-C

SPACING

3'-1¹/₂" C-C

POST

SPACING

DIRECTION OF

TRAFFIC

3'-11/2" C-C

SPACING

3'-11/2" C-C

SPACING

FINISHED

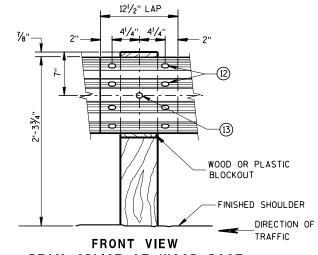
SHOULDER

* USE DOUBLE SIDED WHITE GUADRAIL REFLECTORS ON ROADWAYS WITH BI-DIRECTIONAL TRAFFIC (NO MEDIAN), USE SINGLE SIDED WHITE (RIGHT SIDE) AND SINGLE SIDED YELLOW (LEFT SIDE) ON ROADWAYS WITH MEDIAN SEPARATION.

SECTION THRU W BEAM

SYMMETRICAL

ABOUT & -12 GAGE

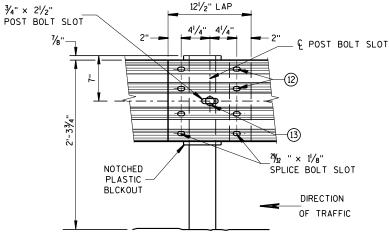


BEAM SPLICE AT WOOD POST AND POST MOUNTING DETAIL

GENERAL NOTES

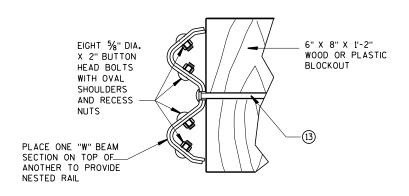
FURNISH GUARDRAIL DEFLECTORS FROM APPROVED PRODUCTS LIST.

- (9) DO NOT INSTALL REFLECTORS ON THE FIRST 50 FEET OF THE APPROACH END OF THE ENERGY ABSORBING TERMINA, START REFLECTORS AT POST *9 AND SPACE EVENLY EVERY 100 FEET (MAX.) TO THE END OF GUARDRAIL RUN, USING A MINIMUM OF 3 REFLECTORS.
- (12) 8 1/8" \$ X 2" BUTTON HEAD BOLTS WITH OVAL SHOULDERS & RECESS NUTS.
- (13) 5%" DIA. BUTTON HEAD BOLT AND RECESS NUT WITH 5%" DIA. F844 FLAT WASHER UNDER NUT.



FRONT VIEW BEAM SPLICE AT STEEL POST

TYPICAL SPLICING DETAILS OF STEEL PLATE BEAM GUARD



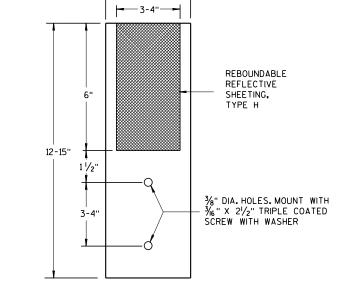
NESTED W BEAM (NW)

USE ALL OTHER STANDARD BEAM GUARD DETAILS FOR CONSTRUCTING NESTED W BEAM (NW)

FRONT VIEW POST SPACING FOR LONGER POST AT HALF POST SPACING W BEAM (LHW)

GUARDRAIL REFLECTOR 9 DIRECTION OF TRAFFIC

4" X 12" GUARDRAIL REFLECTOR DETAIL AND TYPICAL INSTALLATION *



4"x 12" GUARDRAIL REFLECTOR

STEEL PLATE BEAM GUARD, CLASS "A", **INSTALLATION & ELEMENTS**

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

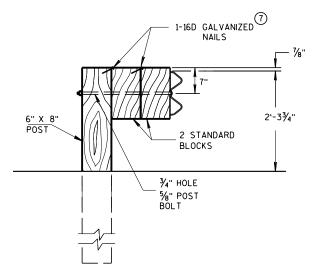
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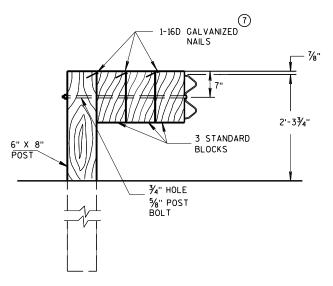
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DETAIL FOR DOUBLE BLOCKS

THE NUMBER OF DOUBLE BLOCK POSTS WITHIN A BARRIER RUN IS UNLIMITED

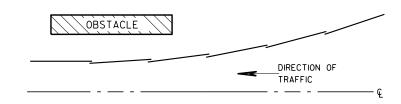


DETAIL FOR TRIPLE BLOCKS

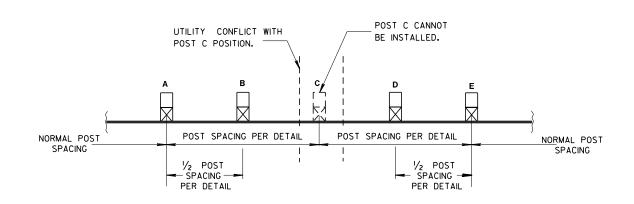
TRIPLE BLOCK DETAIL IS LIMITED TO ONE LOCATION WITHIN A BEAM GUARD RUN.

NOTES: USE DOUBLE OR TRIPLE BLOCKS WHEN UNDERGROUND OBSTACLES PREVENT THE POST FROM BEING INSTALLED.

DO NOT USE EXTRA BLOCKOUTS IF IT CAUSES THE POST TO BE DRIVEN BEYOND SHOULDER HINGE POINT OR CAUSES A FIXED OBJECT TO BE WITHIN THE DEFLECTION DISTANCE OF THE BARRIER.



PLAN VIEW BEAM LAPPING DETAIL



POST DRIVING FOR CONTINUOUS UNDERGROUND OBSTRUCTION

STEEL PLATE BEAM GUARD, CLASS "A", INSTALLATION & ELEMENTS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
June 2017

DATE

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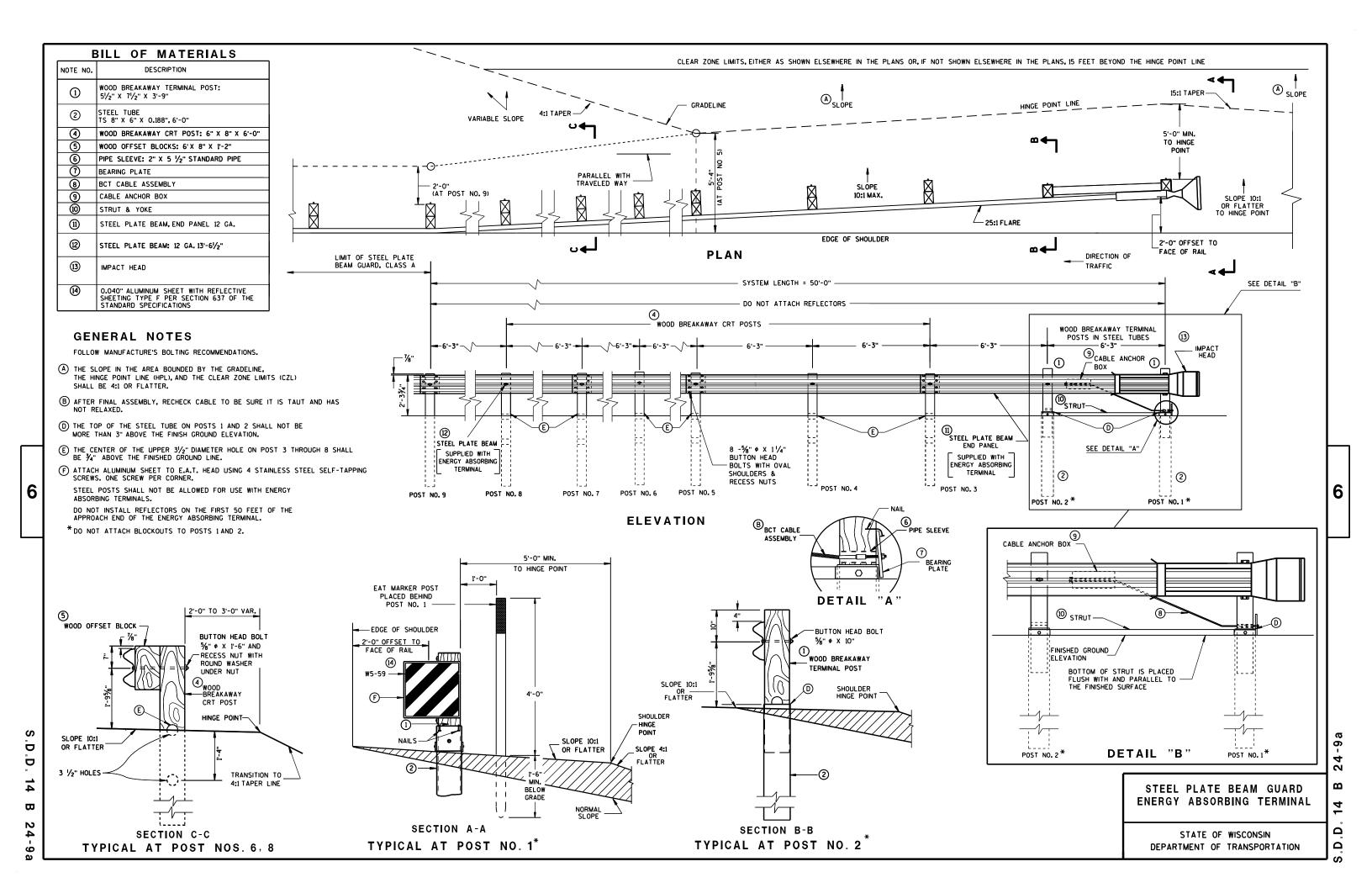
/S/ Rodney Taylor

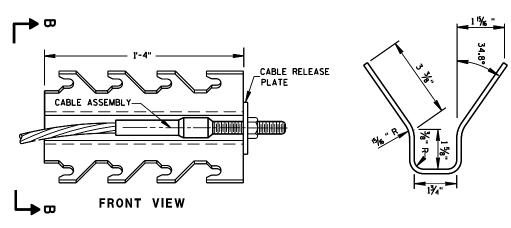
ROADWAY STANDARDS DEVELOPMENT
UNIT SUPERVISOR

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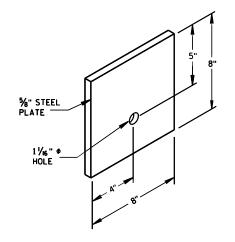
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SECTION B-B

(9) CABLE ANCHOR BOX



[⊙]STEEL BEARING PLATE

STEEL PLATE BEAM GUARD ENERGY ABSORBING TERMINAL

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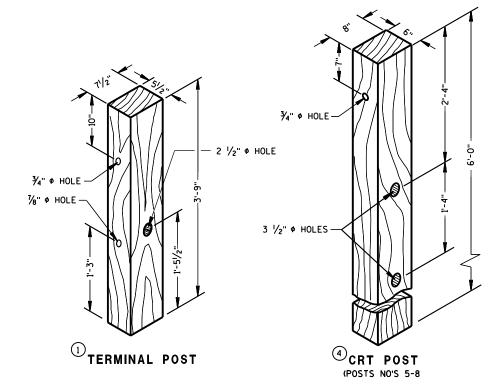
24-9b

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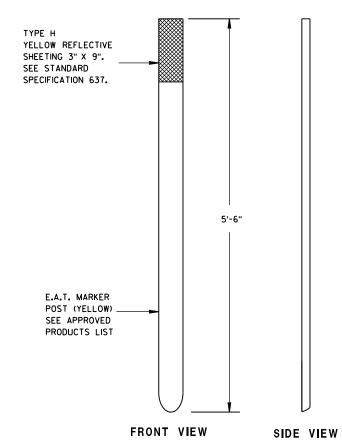
S.D.D.

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

(4) REFLECTIVE SHEETING DETAILS



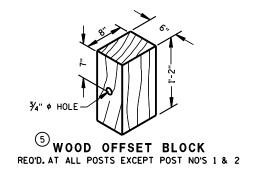
WOOD BREAKAWAY POSTS



E.A.T. MARKER POST

GENERAL NOTES

WHEN ROCK IS ENCOUNTERED DURING EXCAVATION, A 12 INCH DIA. POST HOLE EXTENDING 20 INCHES DEEP INTO THE ROCK MAY BE USED IF APPROVED BY THE ENGINEER. GRANULAR MATERIAL SHALL BE PLACED IN THE BOTTOM OF THE HOLE APPROXIMATELY 2 1/2" INCHES DEEP TO PROVIDE DRAINAGE. THE SOIL TUBES SHALL BE FIELD CUT TO LENGTH, PLACED IN THE HOLE AND BACKFILLED WITH ADEQUATELY COMPACTED MATERIAL EXCAVATED FROM THE HOLE.



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STEEL PLATE BEAM GUARD ENERGY ABSORBING TERMINAL

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

APPROVED June 2017

/S/ Rodney Taylor ROADWAY STANDARDS DEVELOPMENT

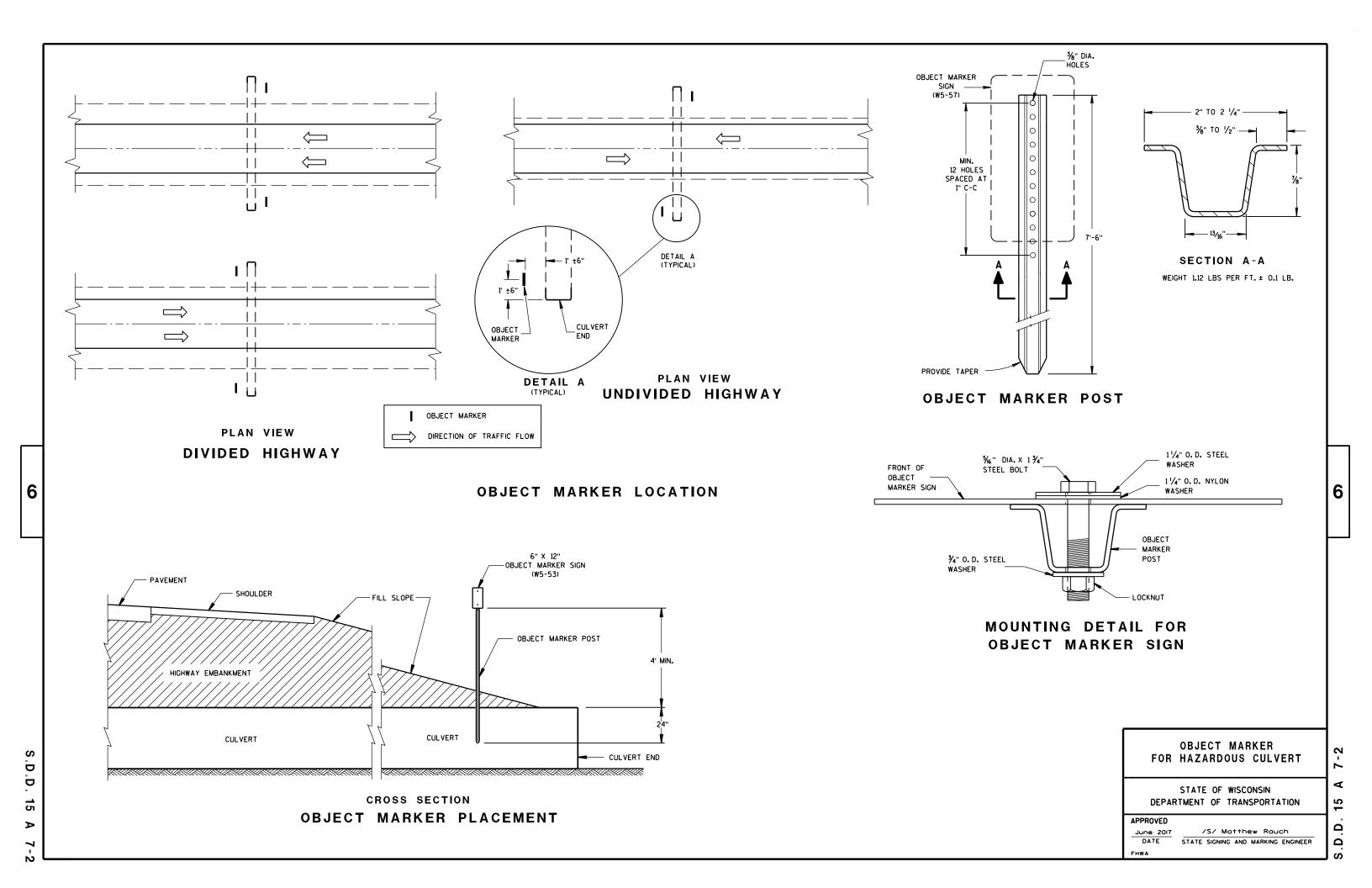
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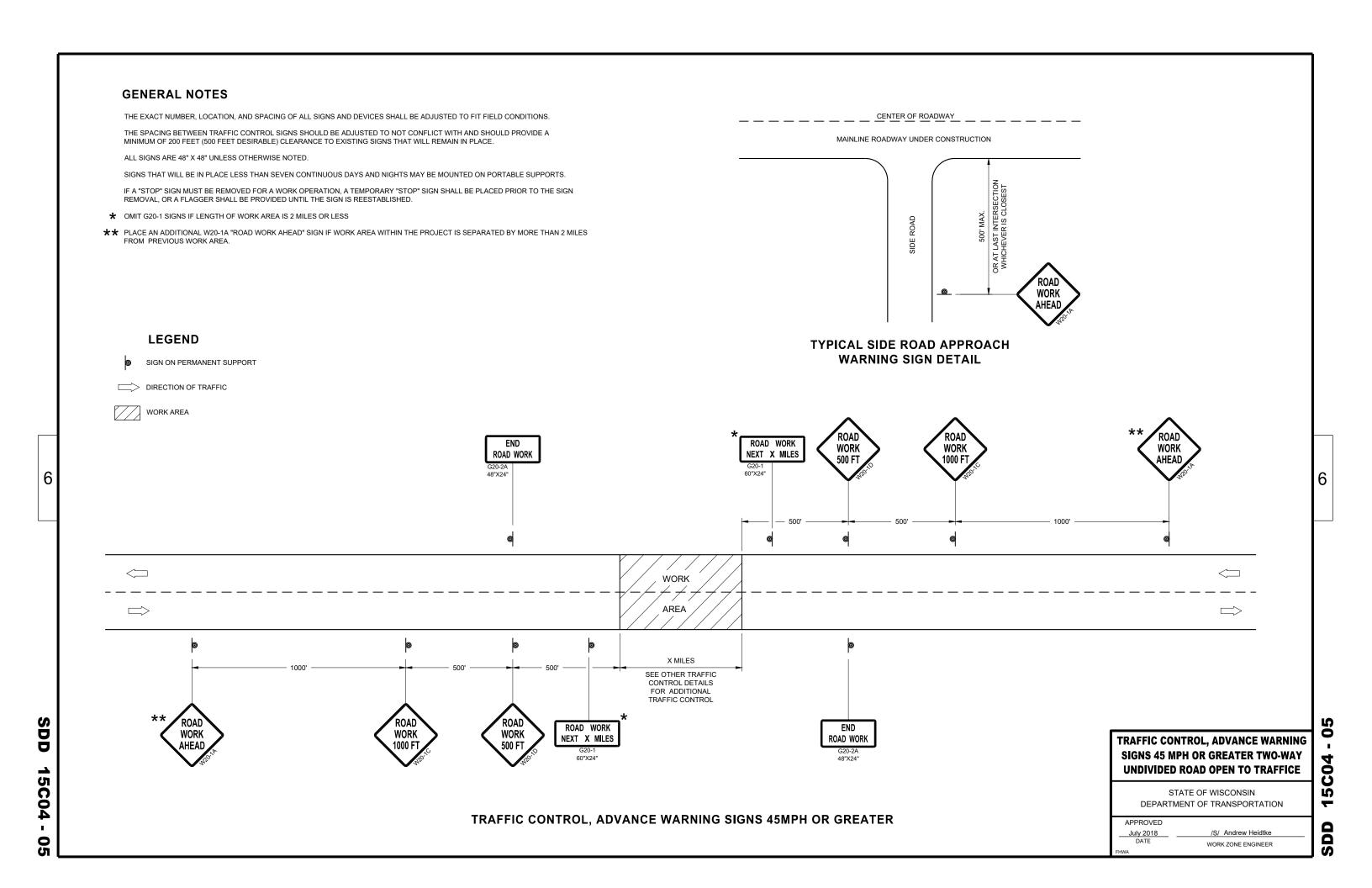
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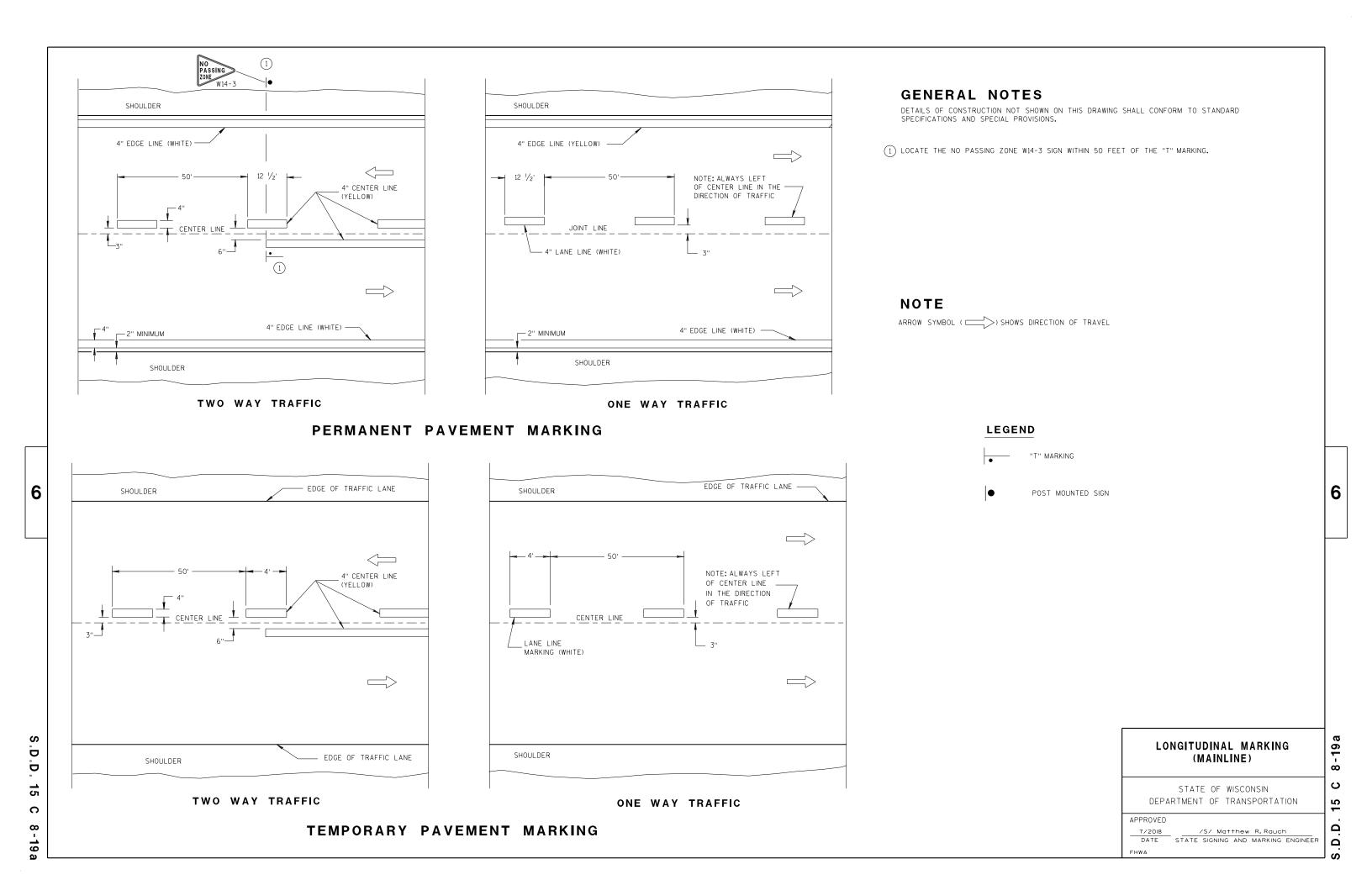
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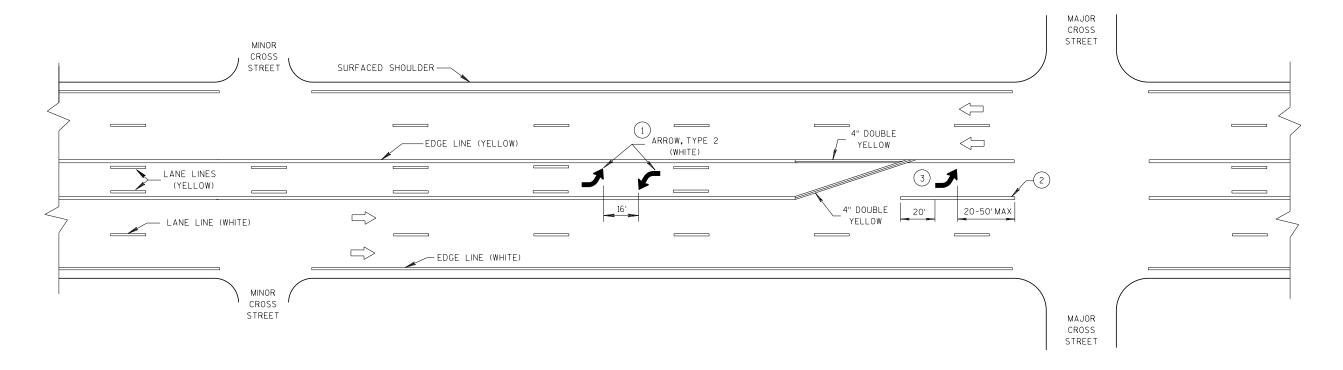
UNIT SUPERVISOR







- 1 A SET OF ARROWS IS REQUIRED EVERY 400 FEET OR NEAR INTERSECTIONS OR DRIVEWAYS WITH TURNING TRAFFIC.
- 2 8" WHITE
- (3) TURN BAY LENGTH OF LESS THAN 48'DOES NOT REQUIRE PAVEMENT ARROWS OR TEXT
- DIRECTION OF TRAFFIC



TWO WAY LEFT TURN LANE

PAVEMENT MARKING (TURN LANES) 6

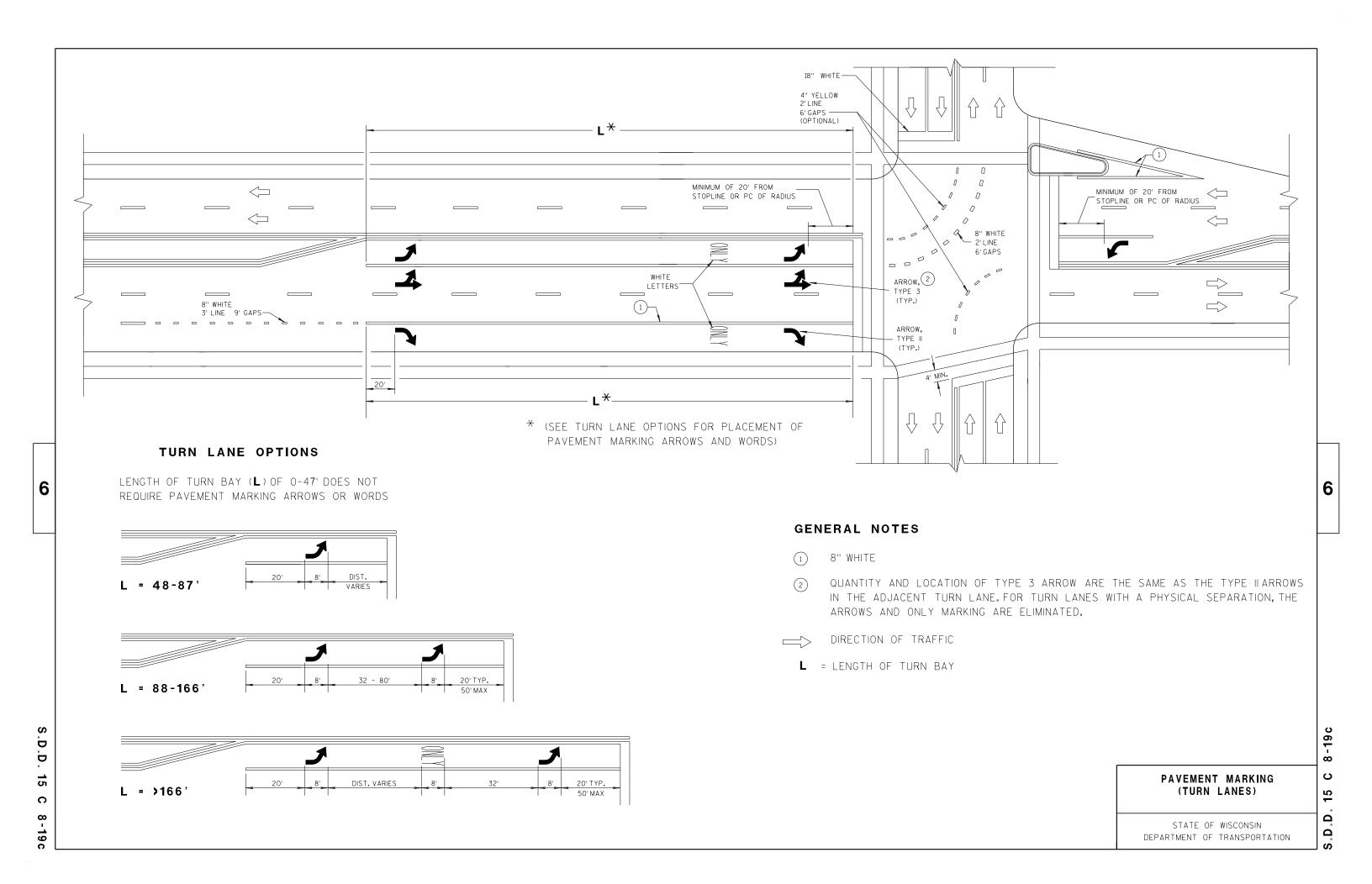
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STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION



36" MIN.

36" MIN.

DRUM

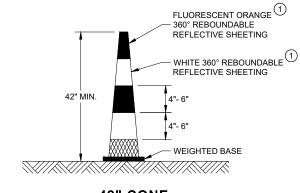
TYPE II BARRICADE

SDD 15C11

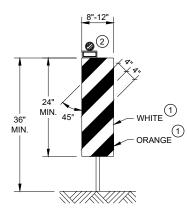
MAY BE USED. ALL STRIPES SHALL SLOPE DOWNWARD TO THE TRAFFIC SIDE FOR CHANNELIZATION.

GENERAL NOTES

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



42" CONE DO NOT USE IN TAPERS ½ SPACING OF DRUMS



VERTICAL PANEL

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

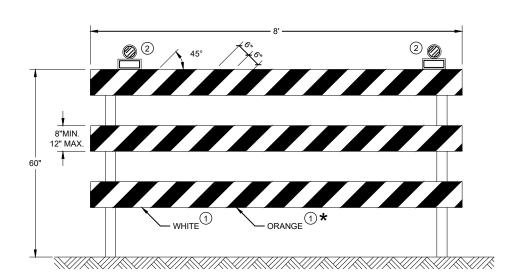
FLUORESCENT ORANGE

WHITE 360° REBOUNDABLE 1

- 360° REBOUNDABLE REFLECTIVE SHEETING

REFLECTIVE SHEETING

FOR RAILS LESS THAN 36" LONG, 4" WIDE STRIPES



TYPE III BARRICADE

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

* IF USED FOR A PERMANENT APPLICATION USE RED SHEETING.

CHANNELIZING DEVICES DRUMS, CONES, BARRICADES AND VERTICAL PANELS

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

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

07

SDD 15C

RUMBLE

STRIPS

WORK

GENERAL NOTES FLAGGING LEGEND DETAILS OF TRAFFIC CONTROL DEVICES AND INSTALLATION NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE FLAGGERS SHALL BE IN SIGHT OF EACH OTHER OR IN DIRECT COMMUNICATION AT ALL TIMES. THEY SHALL BE EQUIPPED WITH 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 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

LANE CLOSURE WITH **FLAGGING OPERATION**

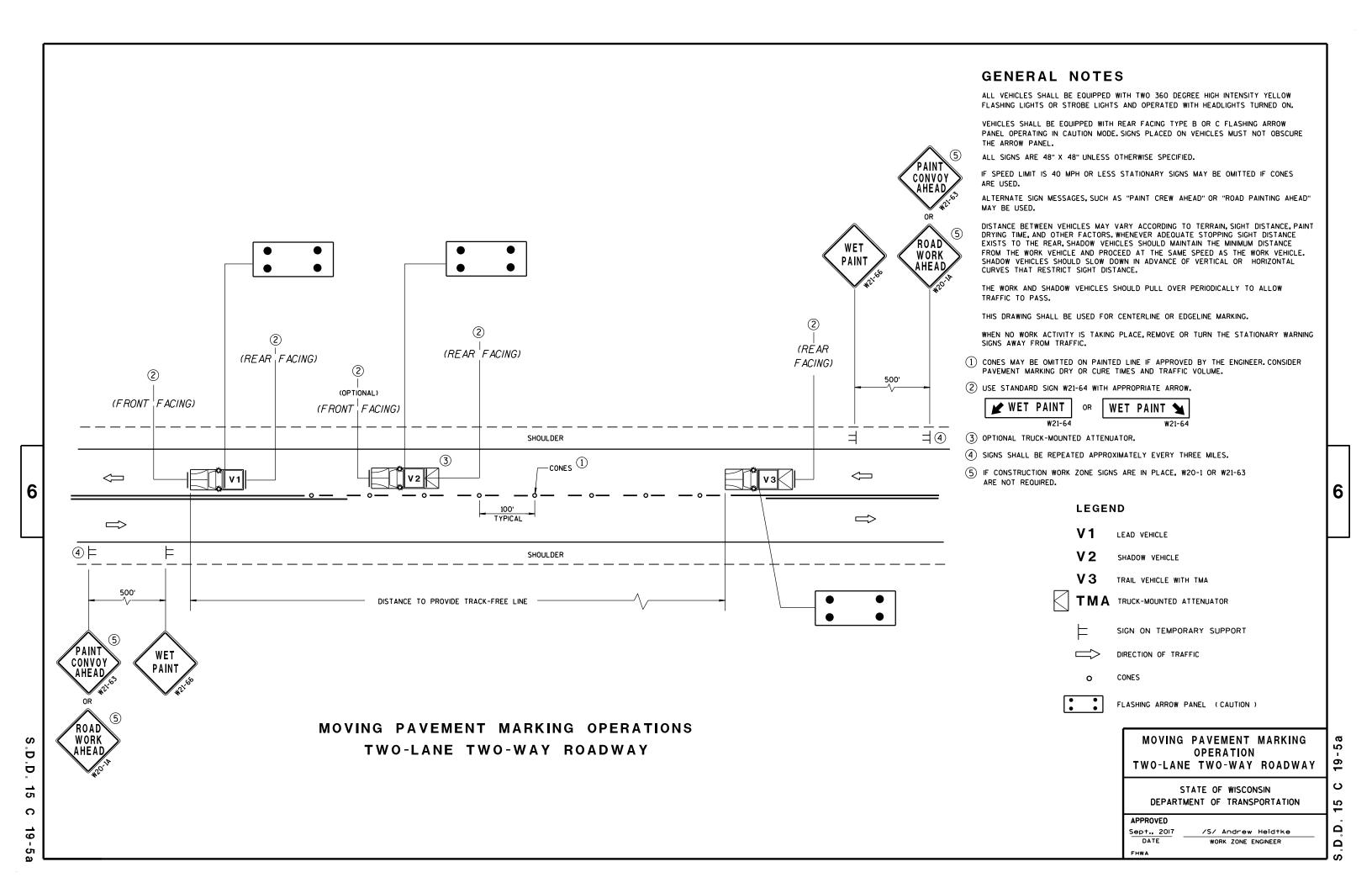
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL FOR

2

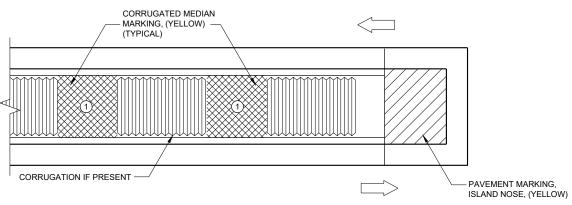
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APPROVED	
May 2019	/S/ Andrew Heidtke
DATE	WORK ZONE ENGINEER
FHWA	

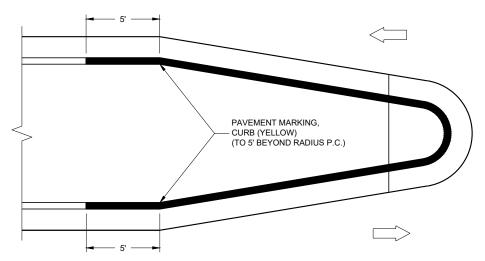


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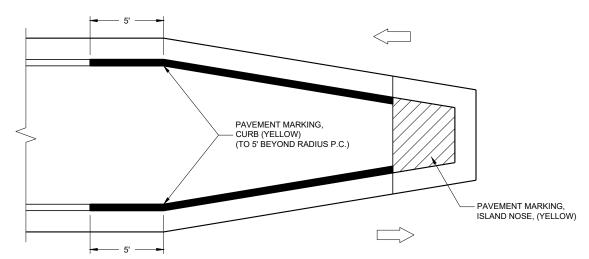
WORK ZONE ENGINEER



MEDIAN ISLAND WITH SQUARE BLUNT NOSE



MEDIAN ISLAND WITH ROUND BLUNT NOSE



MEDIAN ISLAND WITH SLOPED NOSE

TYPICAL PLACEMENT OF PAVEMENT MARKING ON MEDIAN ISLANDS

GENERAL NOTES

WHEN CONCRETE CORRUGATED MEDIAN IS CONSTRUCTED TO SEPARATE TRAFFIC OPERATING IN THE OPPOSING DIRECTION, YELLOW PAVEMENT MARKING SHALL BE APPLIED TO THE FLAT PORTION OF THE CONCRETE CORRUGATED MEDIAN. THE ITEM OF PAVEMENT MARKING, CONCRETE CORRUGATED MEDIAN, WILL BE MEASURED IN PLACE AND ACCEPTED IN ACCORDANCE WITH THE CONTRACT AND PAID FOR AT THE CONTRACT UNIT PRICE PER SQUARE FOOT.

CURB MARKING

CURB MARKING

CORRUGATED MEDIAN MARKING

DIRECTION OF TRAVEL

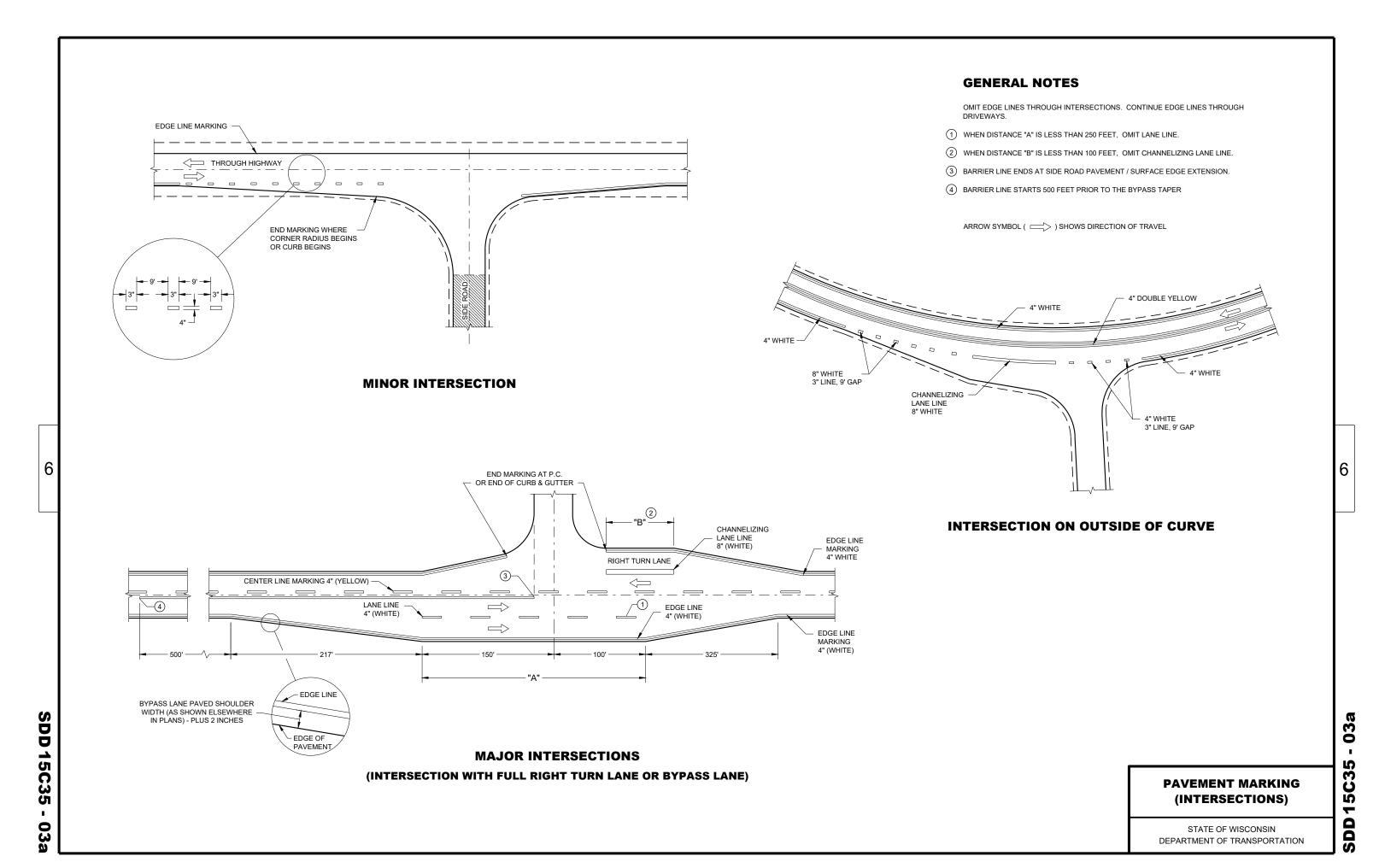
PAVEMENT MARKINGS (ISLANDS)

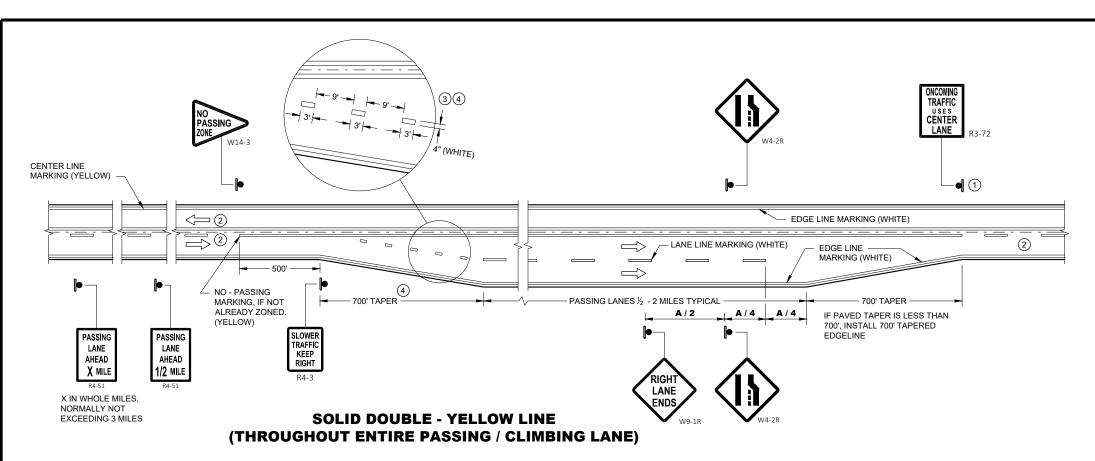
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SDD 15C27

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED	
7/2018 /S/ Matthew R. Rauch	
DATE STATE SIGNING AND MARKING	
FHWA	





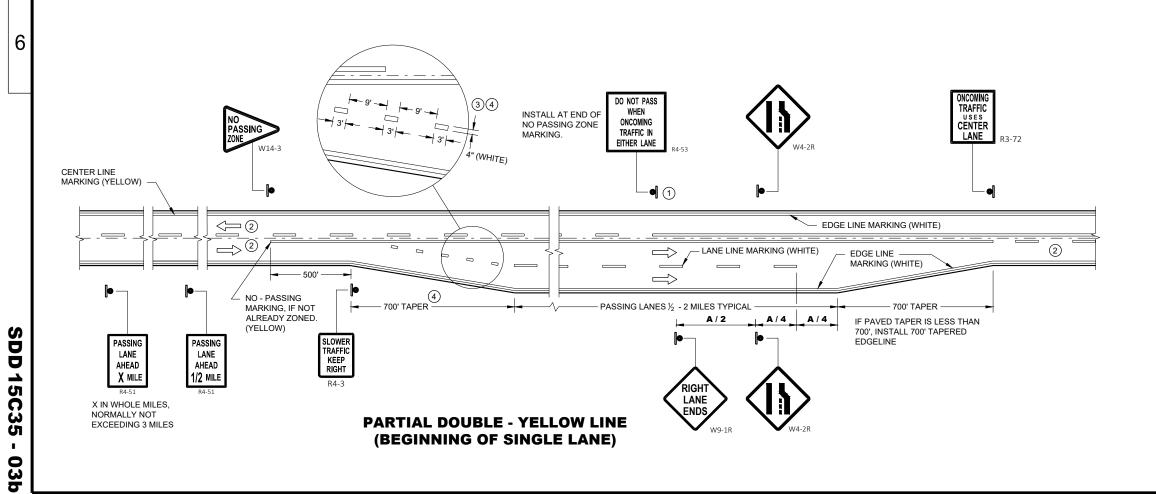
GENERAL NOTES

- \bigodot 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.
- 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.
- 4 WHEN THE ENTRANCE TAPER IS LESS THAN 700 FEET OR THE SHOULDER WIDTH IN THE PASSING / CLIMBLING LANE IS LESS THAN THE ADJACENT HIGHWAY, DO NOT INSTALL DOTTED LINE PAVEMENT MARKING.

ARROW SYMBOL () SHOWS DIRECTION OF TRAVEL

DISTANCE TABLE

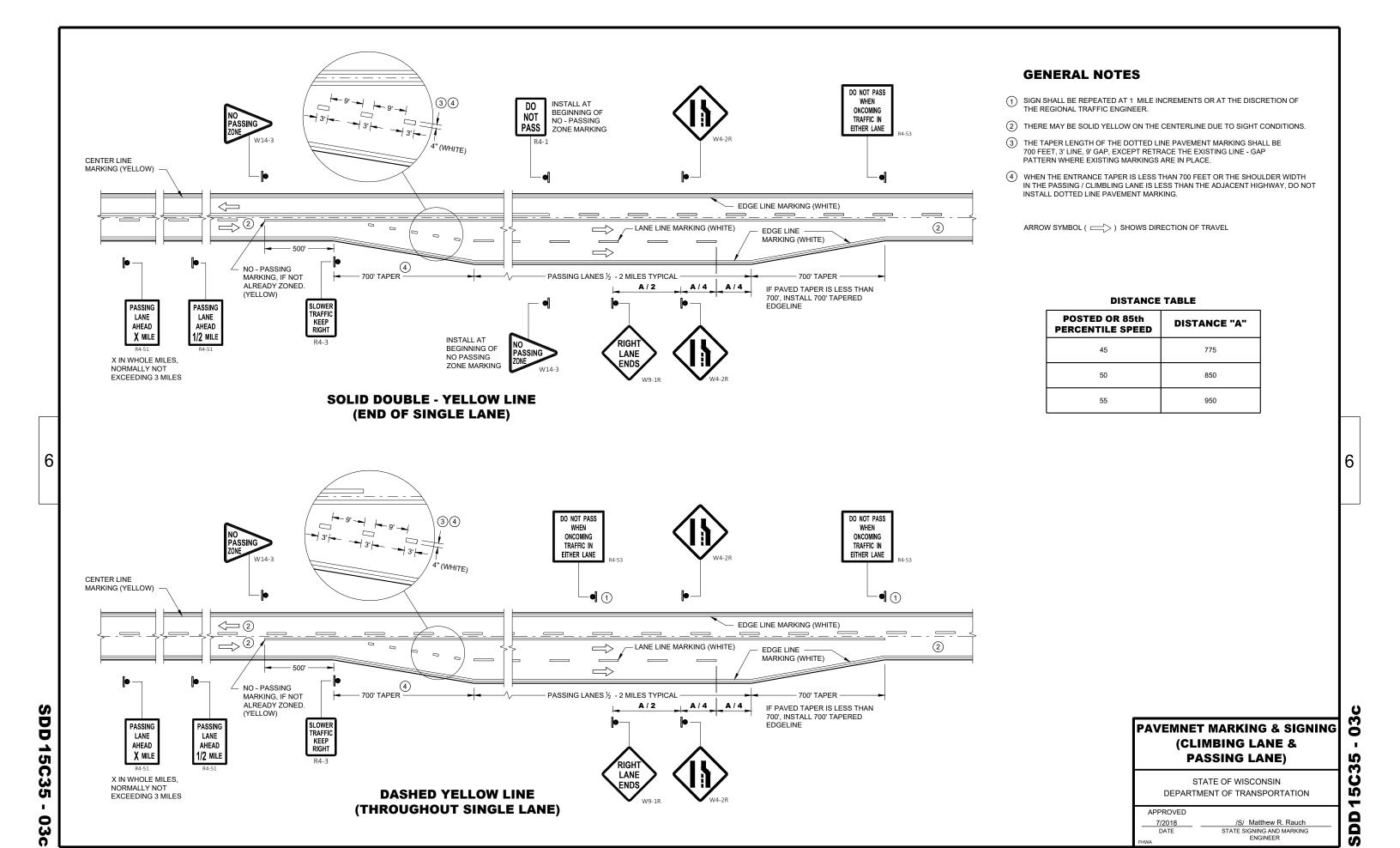
POSTED OR 85th PERCENTILE SPEED	DISTANCE "A"
45	775
50	850
55	950

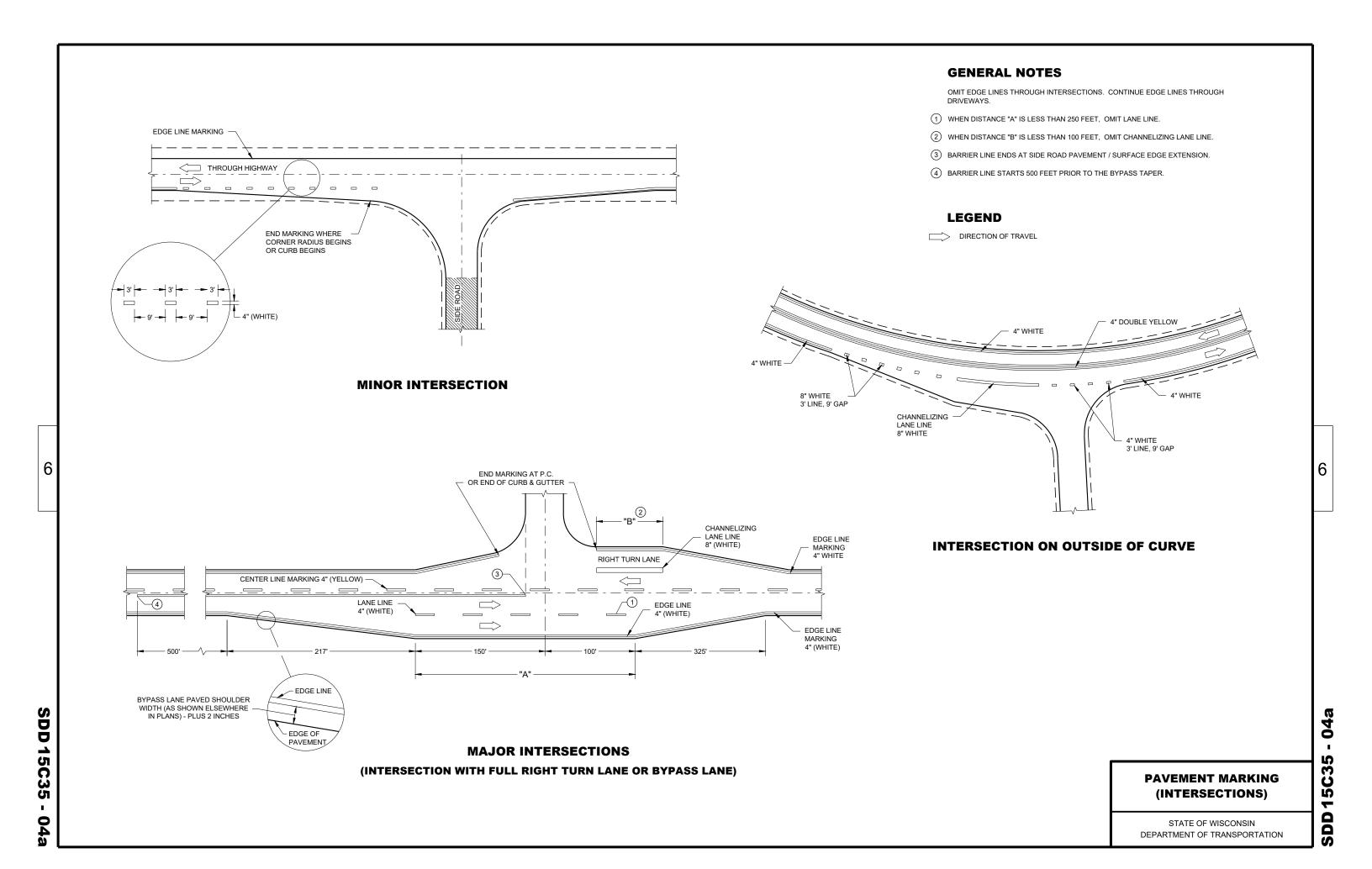


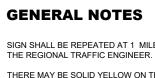
PAVEMENT MARKING & SIGNING (CLIMBING LANE & **PASSING LANE)**

> STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

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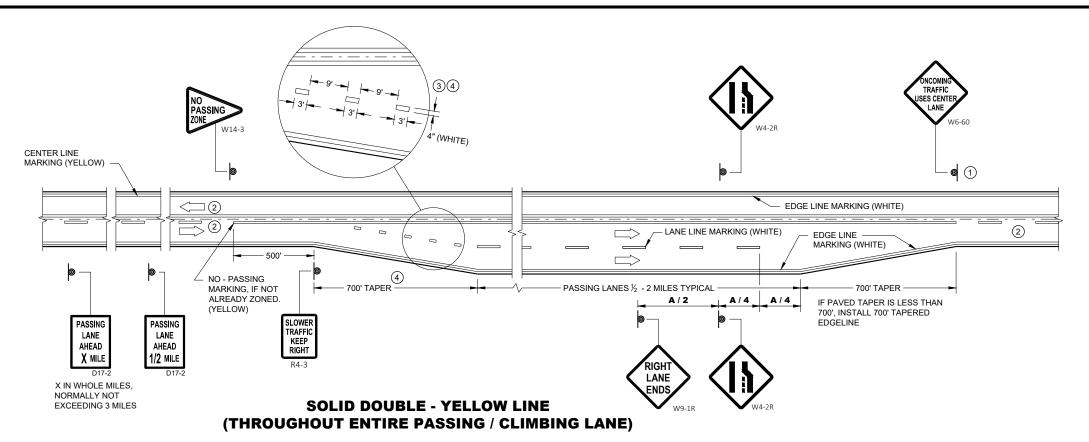


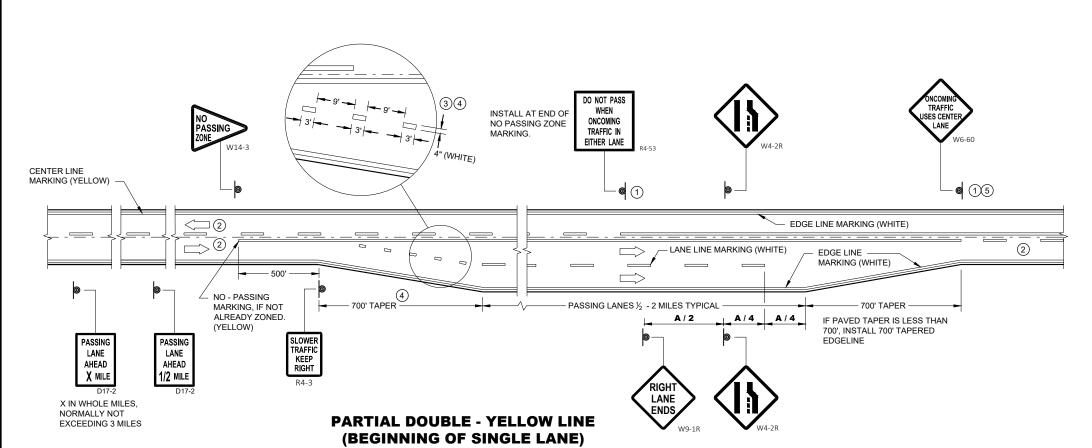
- \bigodot SIGN SHALL BE REPEATED AT 1 MILE INCREMENTS OR AT THE DISCRETION OF THE REGIONAL TRAFFIC ENGINEER.
- 2) THERE MAY BE SOLID YELLOW ON THE CENTERLINE DUE TO SIGHT CONDITIONS.
- 3 THE TAPER LENGTH OF THE DOTTED LINE PAVEMENT MARKING SHALL BE 700 FEET, 3' LINE, 9' GAP, EXCEPT RETRACE THE EXISTING LINE GAP PATTERN WHERE EXISTING MARKINGS ARE IN PLACE.
- 4 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.
- (5) REPEAT EVERY 1 MILE UP UNTIL R4-53.

ARROW SYMBOL () SHOWS DIRECTION OF TRAVEL

DISTANCE TABLE

POSTED OR 85th PERCENTILE SPEED	DISTANCE "A"
45	775
50	885
55	990

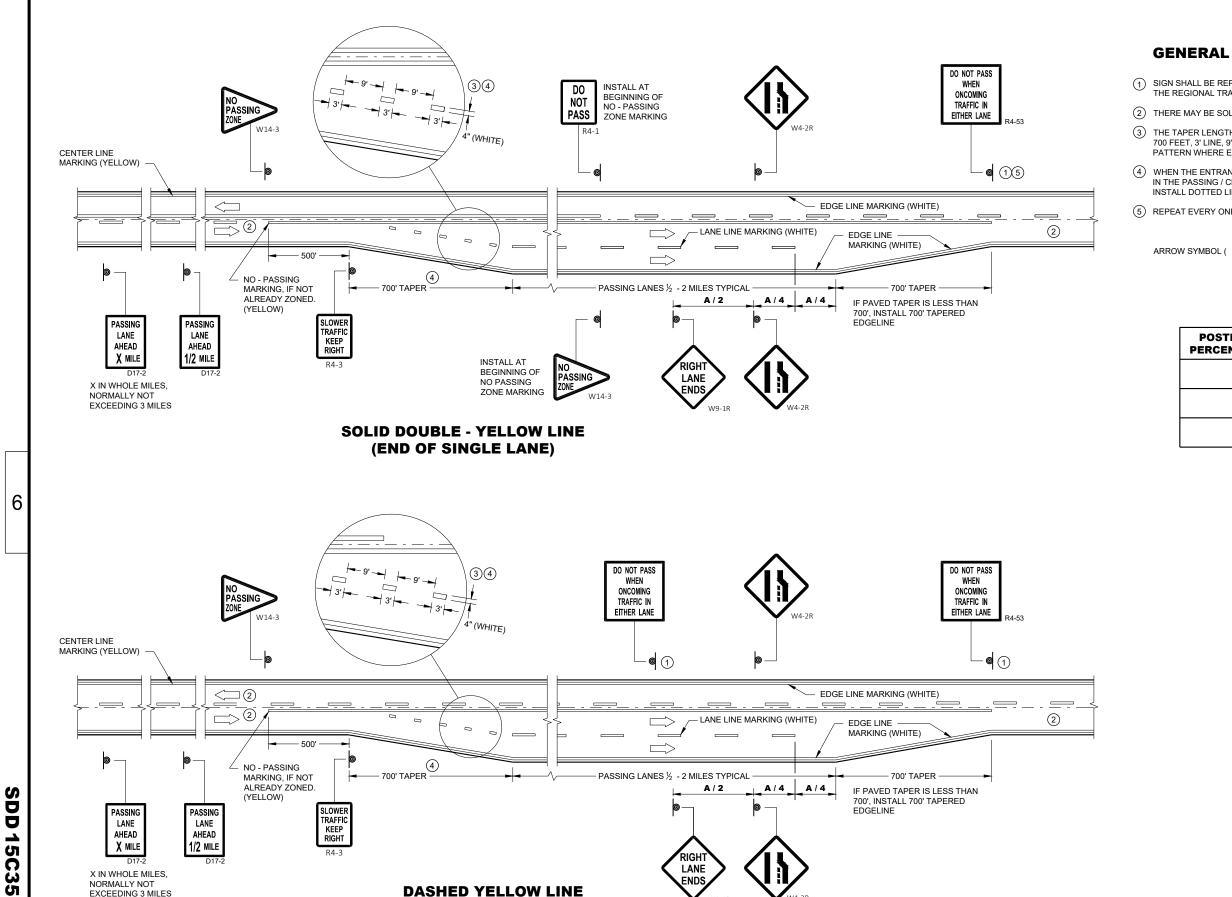




PAVEMENT MARKING & SIGNING (CLIMBING LANE & **PASSING LANE)**

> STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

04b



(THROUGHOUT SINGLE LANE)

EXCEEDING 3 MILES

04c

GENERAL NOTES

- (1) 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.
- 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.
- (5) REPEAT EVERY ONE MILE UP UNTIL NO PASSING ZONE.

ARROW SYMBOL () SHOWS DIRECTION OF TRAVEL

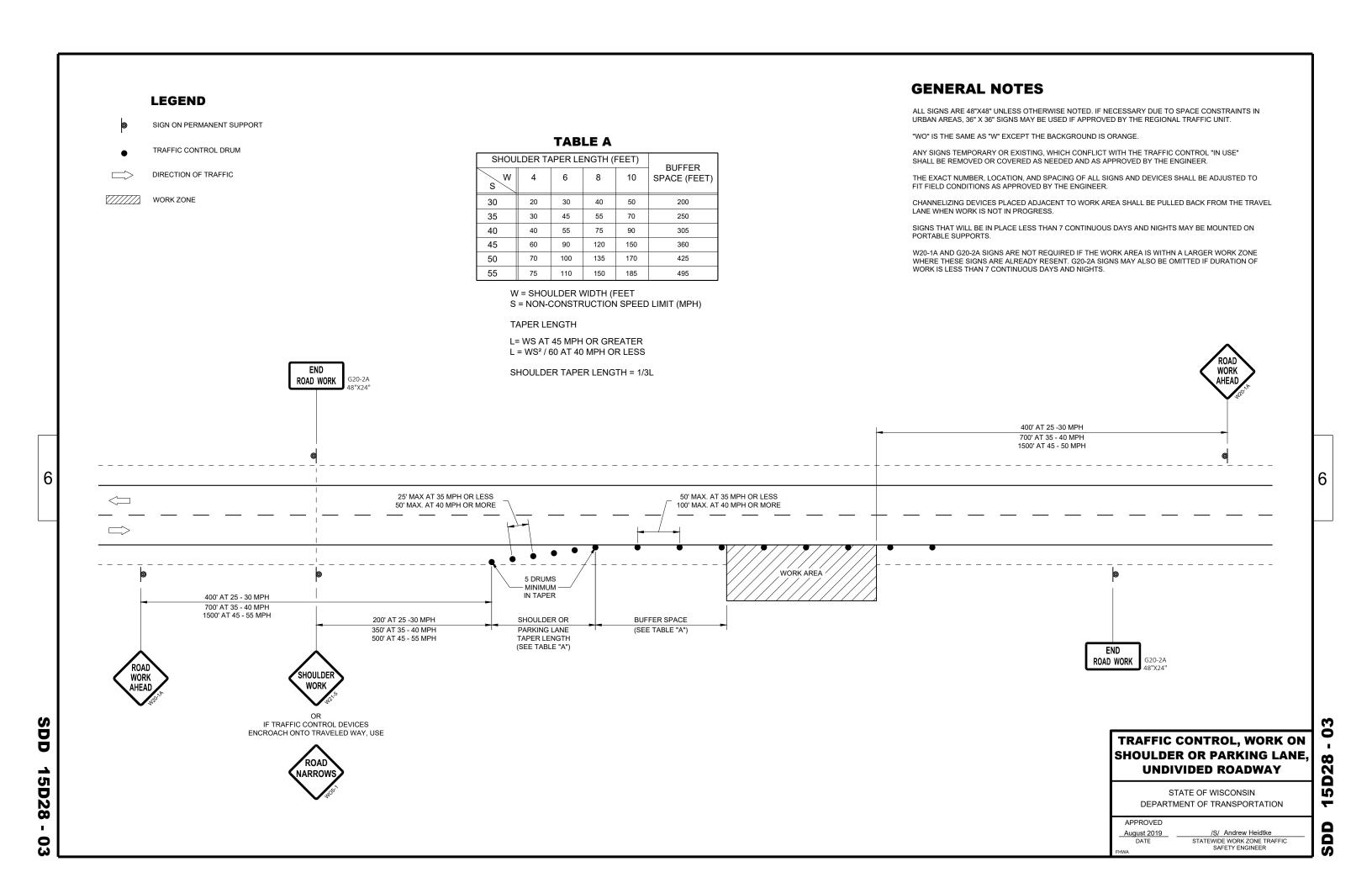
DISTANCE TABLE

POSTED OR 85th PERCENTILE SPEED	DISTANCE "A"
45	775
50	885
55	990

PAVEMNET MARKING & SIGNING (CLIMBING LANE & **PASSING LANE)**

> STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

APPROVED November 2019 DATE /S/ Matthew Rauch STATE SIGNING AND MARKING ENGINEER Ŏ 3 Ŋ



TRAFFIC CONTROL,
SIGNING ON ROADWAYS
WITH MILLED SURFACES

50

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

 APPROVED
 /S/ Andrew Heidtke

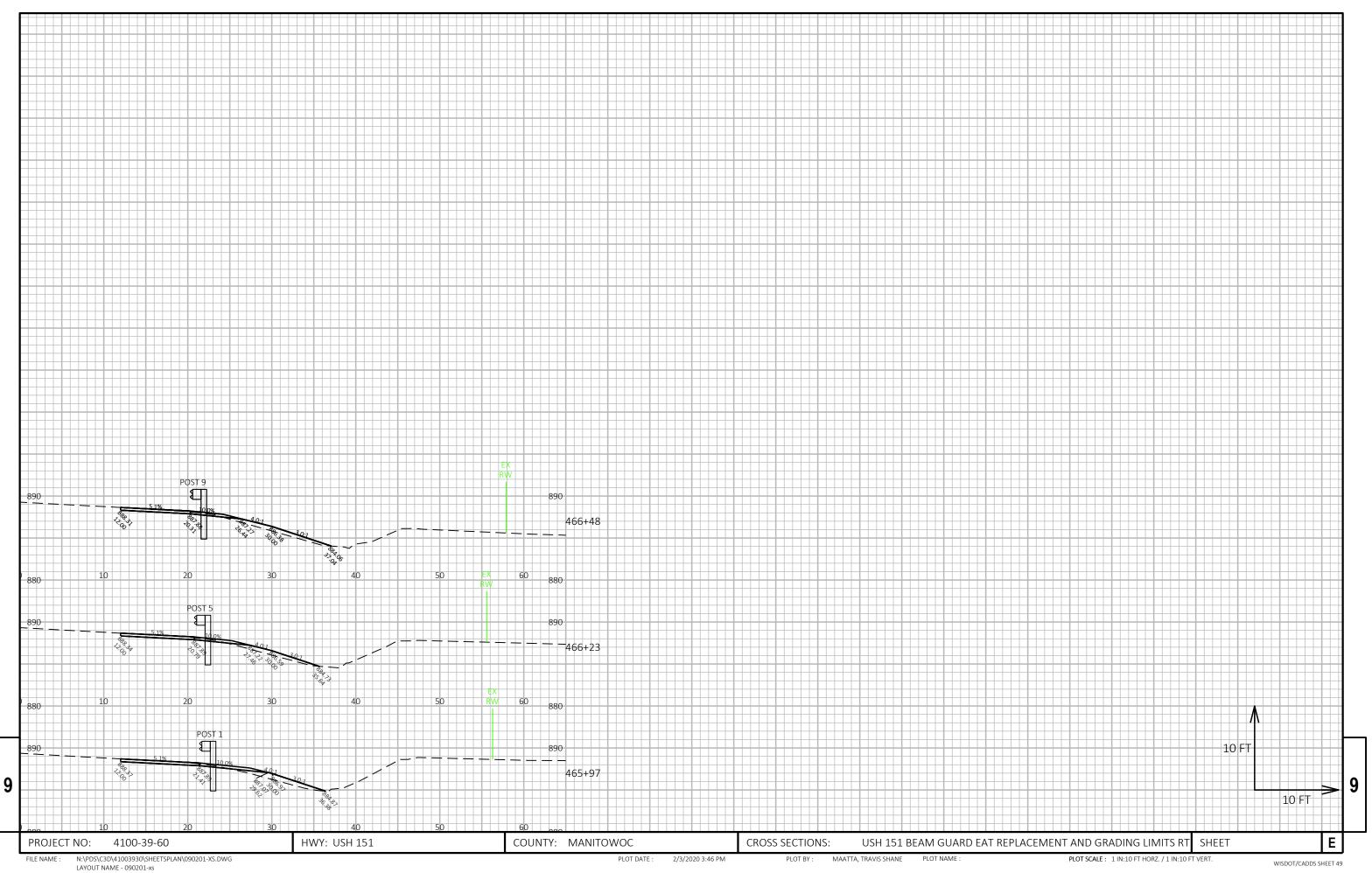
 August 2019
 /S/ Andrew Heidtke

 DATE
 WORK ZONE ENGINEER

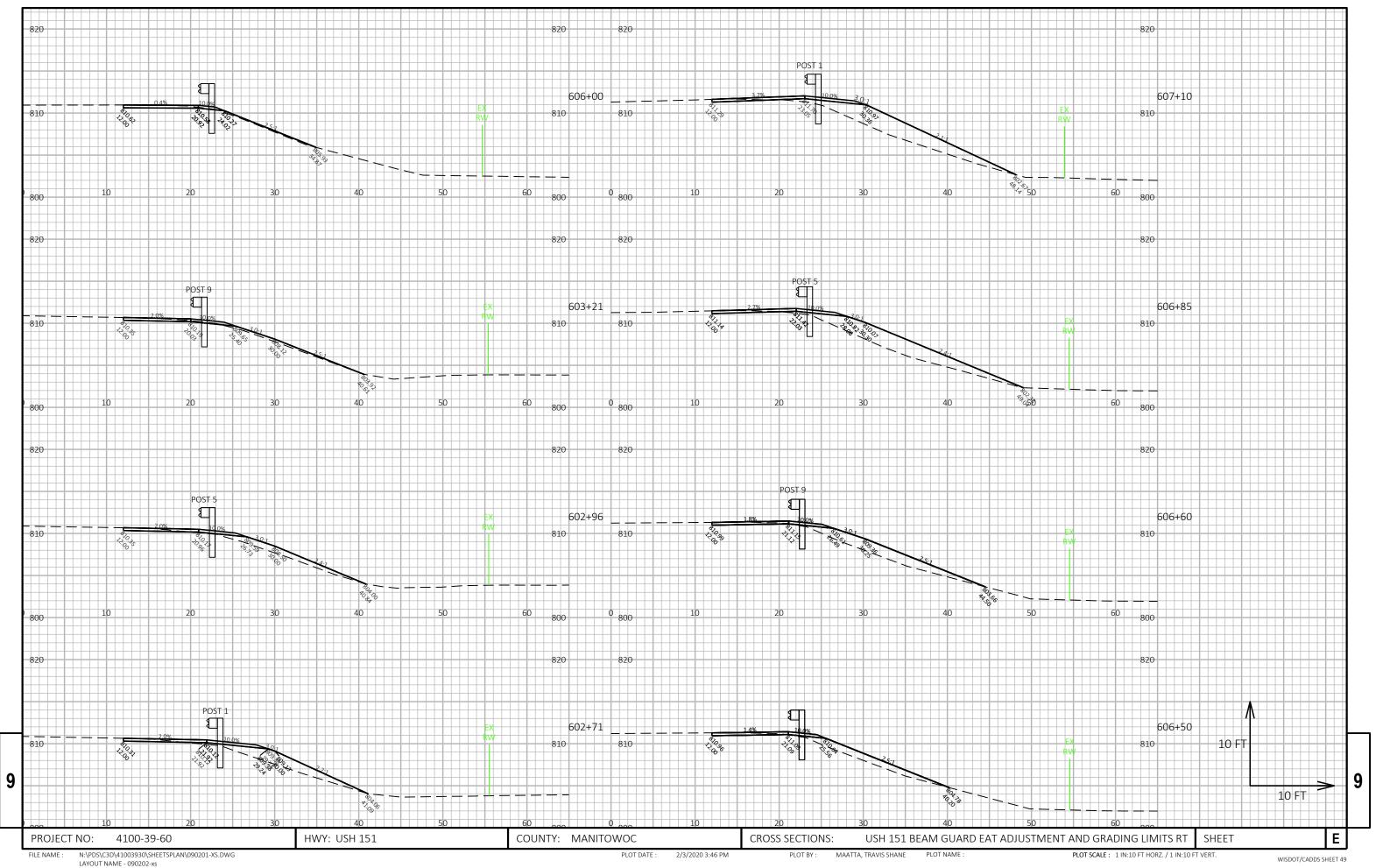
PAVEMENT

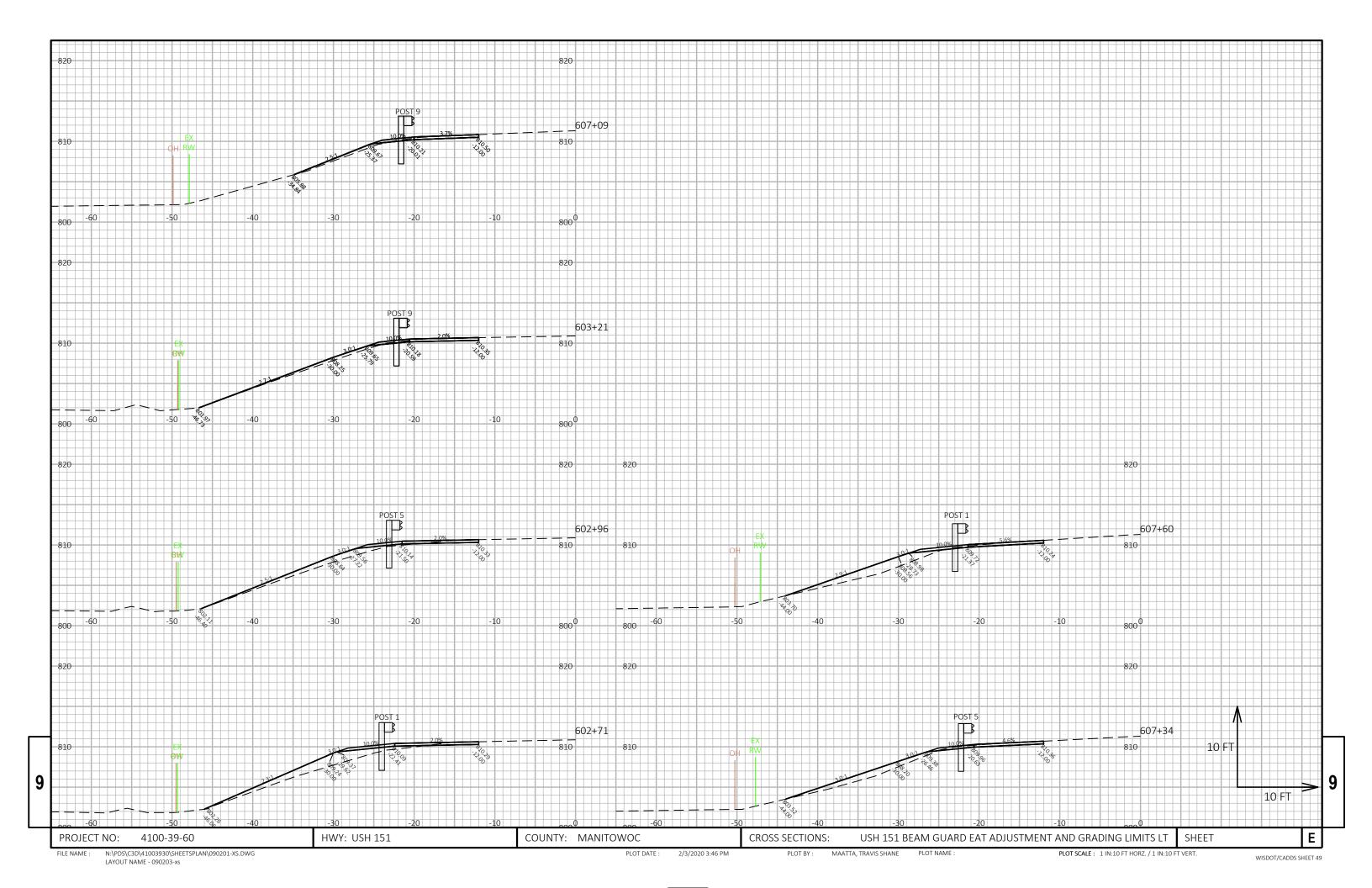
SEE SDD15C04 FOR ADVANCE WARNING SIGNS

DETAIL FOR SIGNING ON MILLED SURFACES



AME - 090201-xs





EPlans Preliminary Sheet Numbering Tool

This sheet: ftp://ftp.dot.state.wi.us/transp/roads/eplans/prelim_sheet_numbers.pdf

Notes

- Acrobat 5 or higher is required to use this tool.
- The Bureau of Highway Construction places sheet numbers in the final plan.
- This sheet is for placing preliminary sheet numbers with a "PRE_" prefix.
- If a plan contains multiple projects, number each plan individually.
- Leave this sheet in the plan.

TO ADD PRELIMINARY SHEET NUMBERS

1. Insert this sheet at the end of the plan

- a. With the plan open in Acrobat, select Document > Insert Pages.
- b. In the Select File to Insert dialog box, select this file (prelim_sheet_numbers.pdf)
- c. In the Insert dialog box, choose After for Location and Last page for Page.
- d. Click OK.

2. Click the Place Preliminary Sheet Numbers button

- a. Go to the last sheet of the plan.
- b. Click the Place Preliminary Sheet Numbers button once.(The preliminary sheet number appears in the bottom right corner of the sheets. The number should match te page number in the Acrobat Status bar).

3. Re-Save the PDF

a. Select File > Save As and save the PDF.

TO REMOVE PRELIMINARY SHEET NUMBERS