### FEBRUARY 2019

Section No.	1	Title
Section No.	2	Typical Sections and Detail
Section No.	3	Estimate of Quantities
Section No.	3	Miscellaneous Quantities
Section No.		Right of Way Plat
Declion No.	- 5	Plan and Profile
Section No.	6	Standard Detail Drawings
Doction No.	7	Oign Plates
Oction No.	-8	Otructure Plane
	_	Occasion Continued Data

TOTAL SHEETS = 114

ORDER OF SHEETS

#### DESIGN DESIGNATION

A.A.D.T. = N/A A.A.D.T. = N/A D.H.V. = N/A D.D. = N/A DESIGN SPEED = N/A = N/A

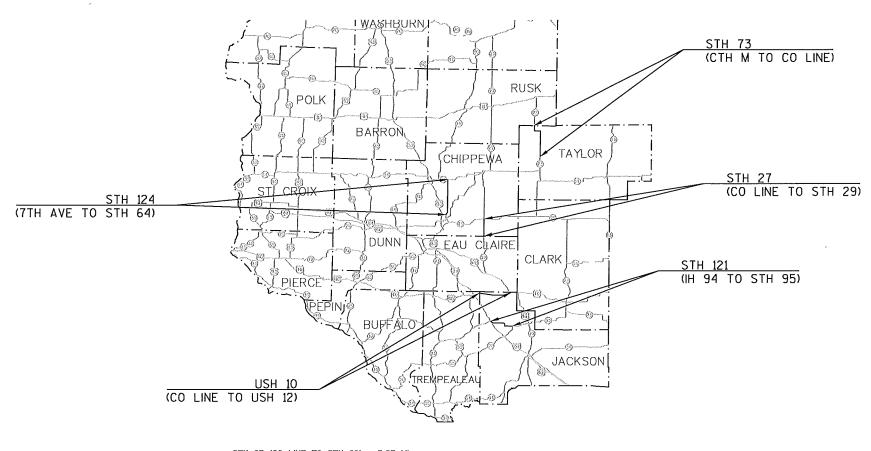
# STATE OF WISCONSIN **DEPARTMENT OF TRANSPORTATION**

STATE HIGHWAY REHABILITATION-MAINTENANCE PROJECT

FEDERAL PROJECT STATE PROJECT CONTRACT 1000-18-29

## SFY 2019 CHIP SEALS - SOUTH **NORTHWEST REGION - VARIOUS HIGHWAYS**

STATE PROJECT NUMBER 1000-18-29



STH 27 (CO LINE TO STH 29) = 5.25 MI USH 10 (CO LINE TO USH 12) = 10.18 MI STH 121 (IH 94 TO STH 95) = 8.16 MI STH 73 (CTH M TO CO LINE) = 10.59 MI STH 124 (7TH AVE TO STH 64) = 11.44 MI TOTAL NET LENGTH OF CENTERLINE = 45.62 MI

LAYOUT 30 MI SCALE

Engineering SCONS BRADLEY J. CUNNINGHAM 37935-006 MT. HOREB, 07-09-18 (Signature) STATE OF WISCONSIN

ORIGINAL PLANS PREPARED BY

## DEPARTMENT OF TRANSPORTATION

PREPARED BY KL ENGINEERING/WISDOT MOHAMAD HAYEK JENNIFER OLDENBURG

DATE: 7/19/18 M

2

### 2

#### GENERAL NOTES

THE ENGINEER WILL DETERMINE ANY DETAILS OF CONSTRUCTION NOT SHOWN ON THE PLAN.

ALL WASTE MATERIAL RESULTING FROM THE VARIOUS OPERATIONS UNDER THIS CONTRACT SHALL BE COLLECTED TO BE PROPERLY DISPOSED OF PRIOR TO REOPENING LANES TO TRAFFIC.

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

CONTRACTOR AND ENGINEER TO FIELD VERIFY AND DOCUMENT EXISTING LANE WIDTHS AND PAVEMENT MARKING LAYOUT AND LOCATION INCLUDING NO-PASSING ZONES FOR RE-ESTABLISHING AFTER SEALING OPERATIONS. (STH 27 - CORRECT 1 FT OFFSET OF CENTERLINE, LOCATED ON SOUTHERN PORTION OF SEGMENT)

# NORTHWEST REGION DNR CONTACTS (JACKSON COUNTY)

NORTHWEST REGION TRAFFIC CONTACT

CHLOE ANDERSON
WISCONSIN DEPARTMENT OF TRANSPORTATION
5009 USH 53 SOUTH

SHAWN HASELEU
DNR NORTHERN REGION HO
810 WEST MAPLE STREET
SPOONER, WI 54801
PHONE: (715) 635-4228

(CHIPPEWA COUNTY)
AMY CRONK
DNR NORTHERN REGION HO
810 WEST MAPLE STREET
SPOONER, WI 54801
PHONE: (715) 635-4229

(TAYLOR COUNTY)
WENDY HENNIGES
DNR NORTHERN REGION HO
107 SUTLIFF
RHINELANDER, WI 54501
PHONE: (715) 365-8916



PROJECT NO: 1000-18-29 HWY: VARIOUS COUNTY: VARIOUS PLAN: GENERAL NOTES SHEET **E** 

FILE NAME : G:\WDOTCO\16048 (2016-2018 DESIGN WO)\16048-014\CIVIL3D\SHEETSPLAN\020101-GN.DWG

EAU CLAIRE, WI 54701

PHONE: (715) 855-7672

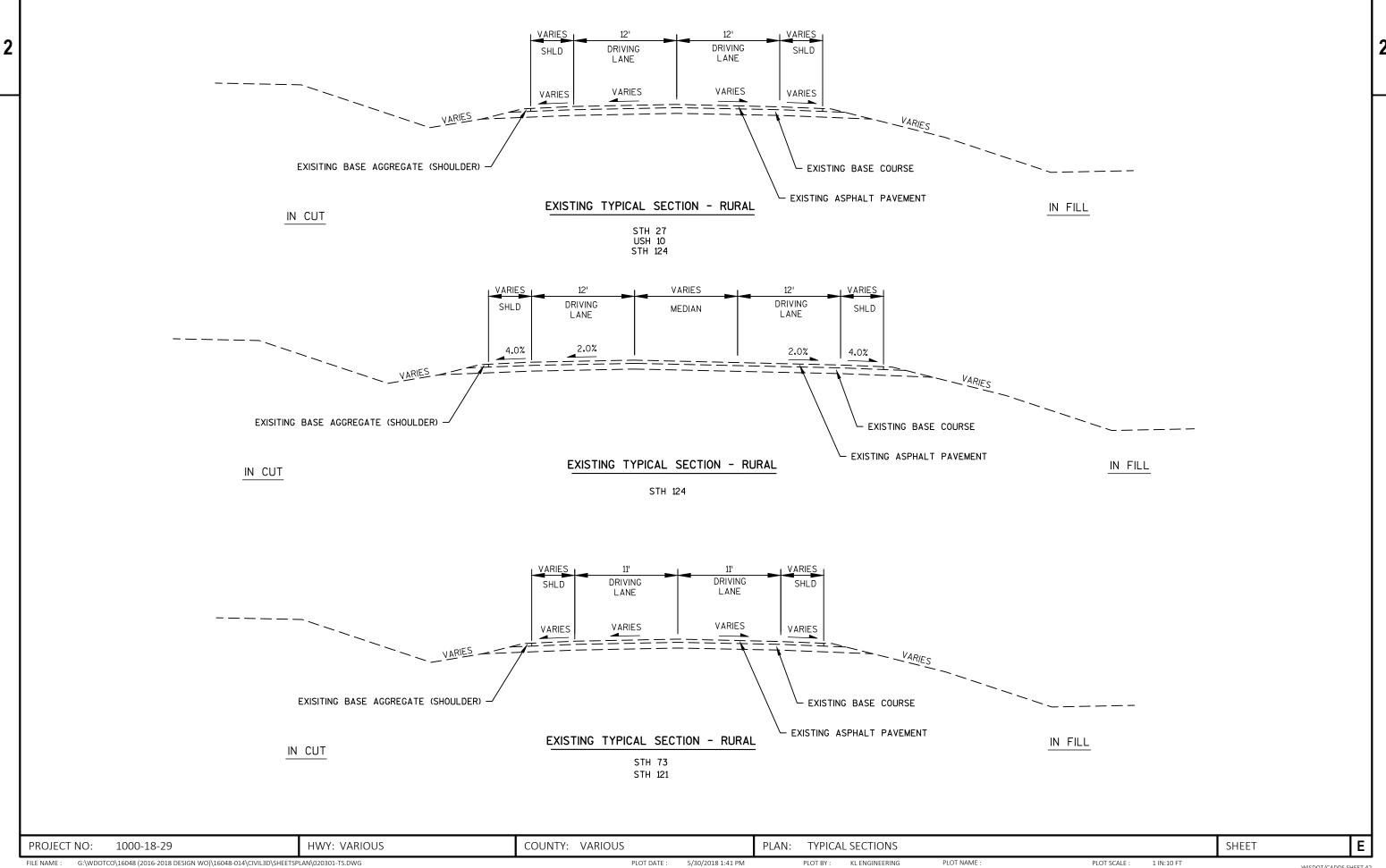
CELL: (715) 577-4493

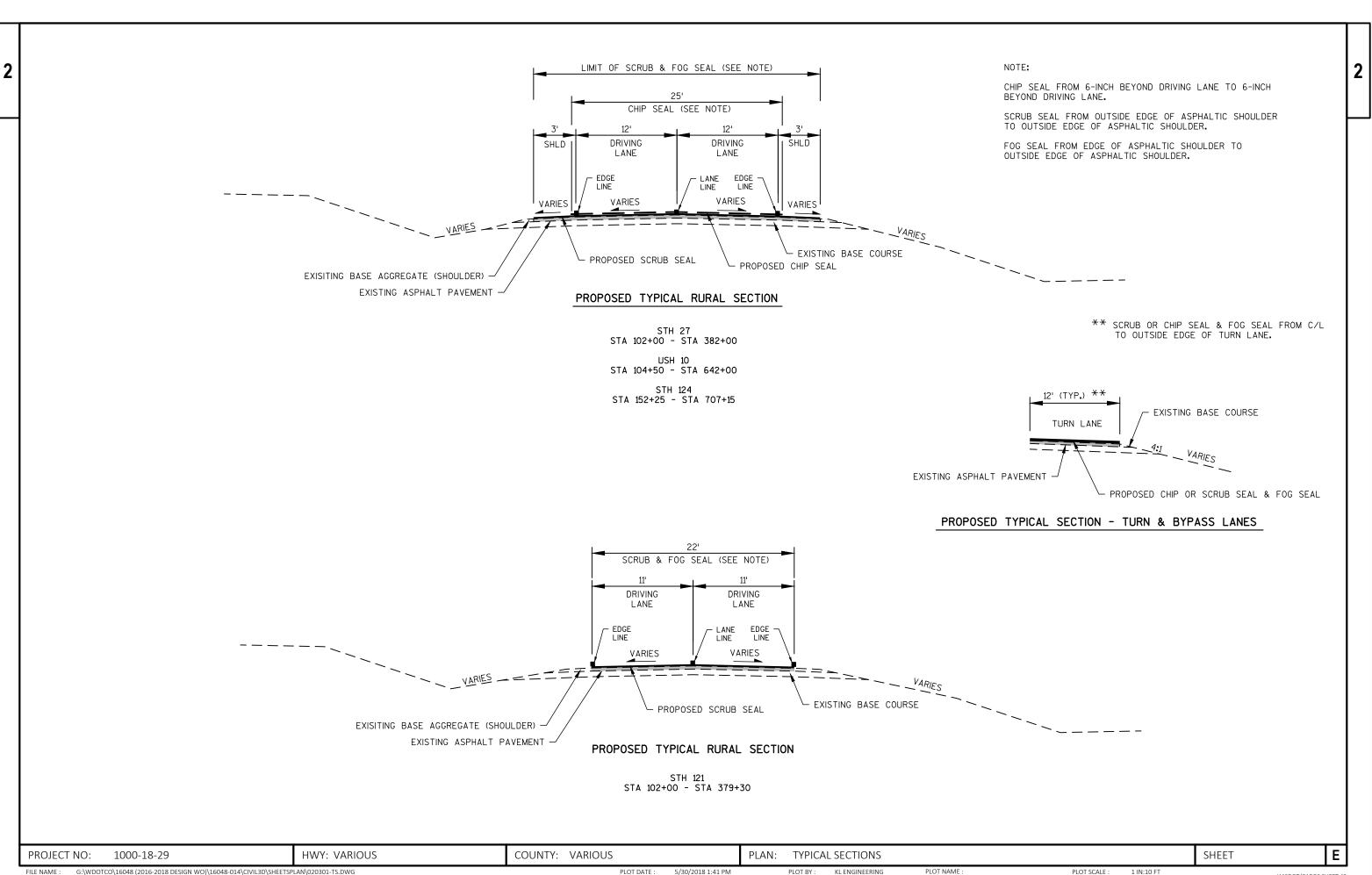
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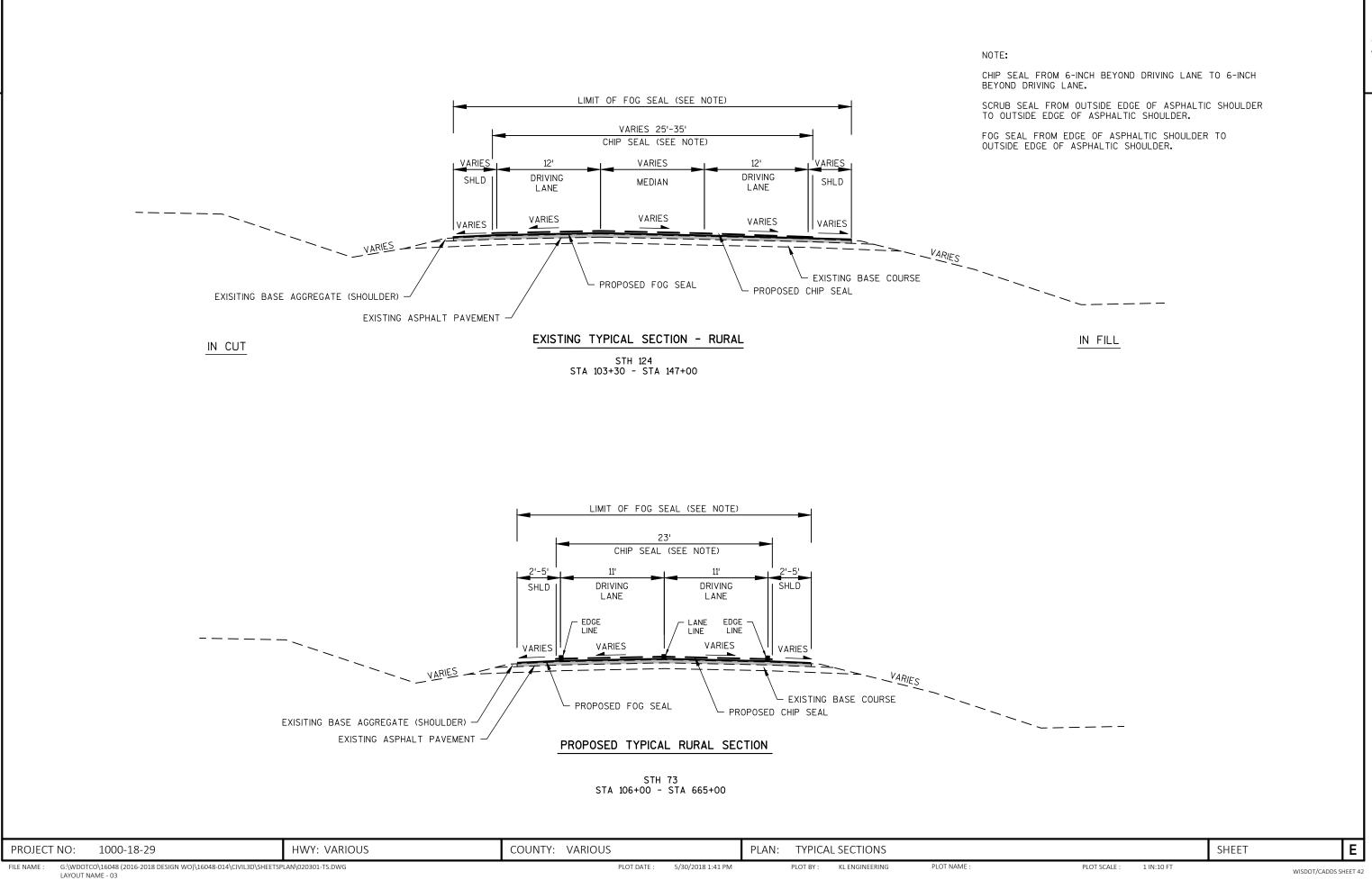
PLOT BY: KL ENGINEERING

PLOT NAME :

PLOT SCALE : 1 IN:10 FT







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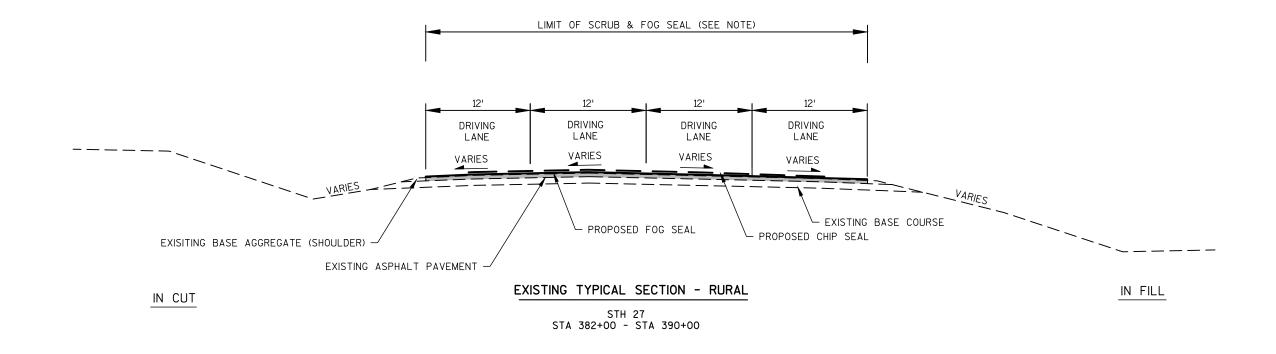
WISDOT/CADDS SHEET 42

NOT

CHIP SEAL FROM 6-INCH BEYOND DRIVING LANE TO 6-INCH BEYOND DRIVING LANE.

SCRUB SEAL FROM OUTSIDE EDGE OF ASPHALTIC SHOULDER TO OUTSIDE EDGE OF ASPHALTIC SHOULDER.

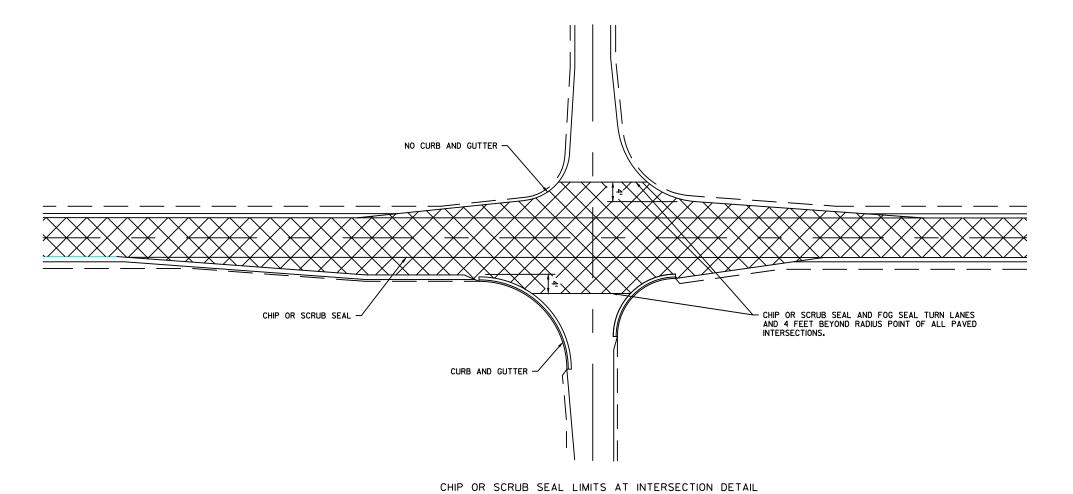
FOG SEAL FROM EDGE OF ASPHALTIC SHOULDER TO OUTSIDE EDGE OF ASPHALTIC SHOULDER.

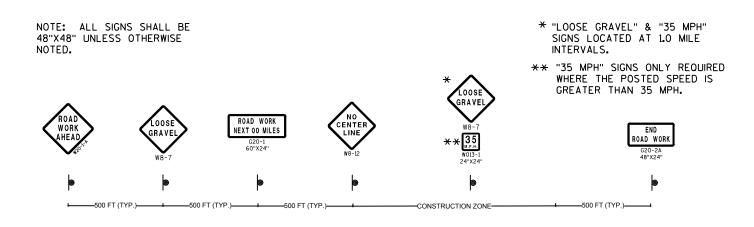


PROJECT NO: 1000-18-29 HWY: VARIOUS COUNTY: VARIOUS PLAN: TYPICAL SECTIONS SHEET

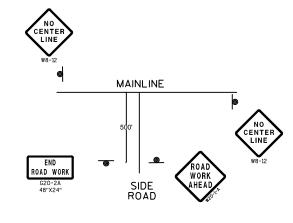
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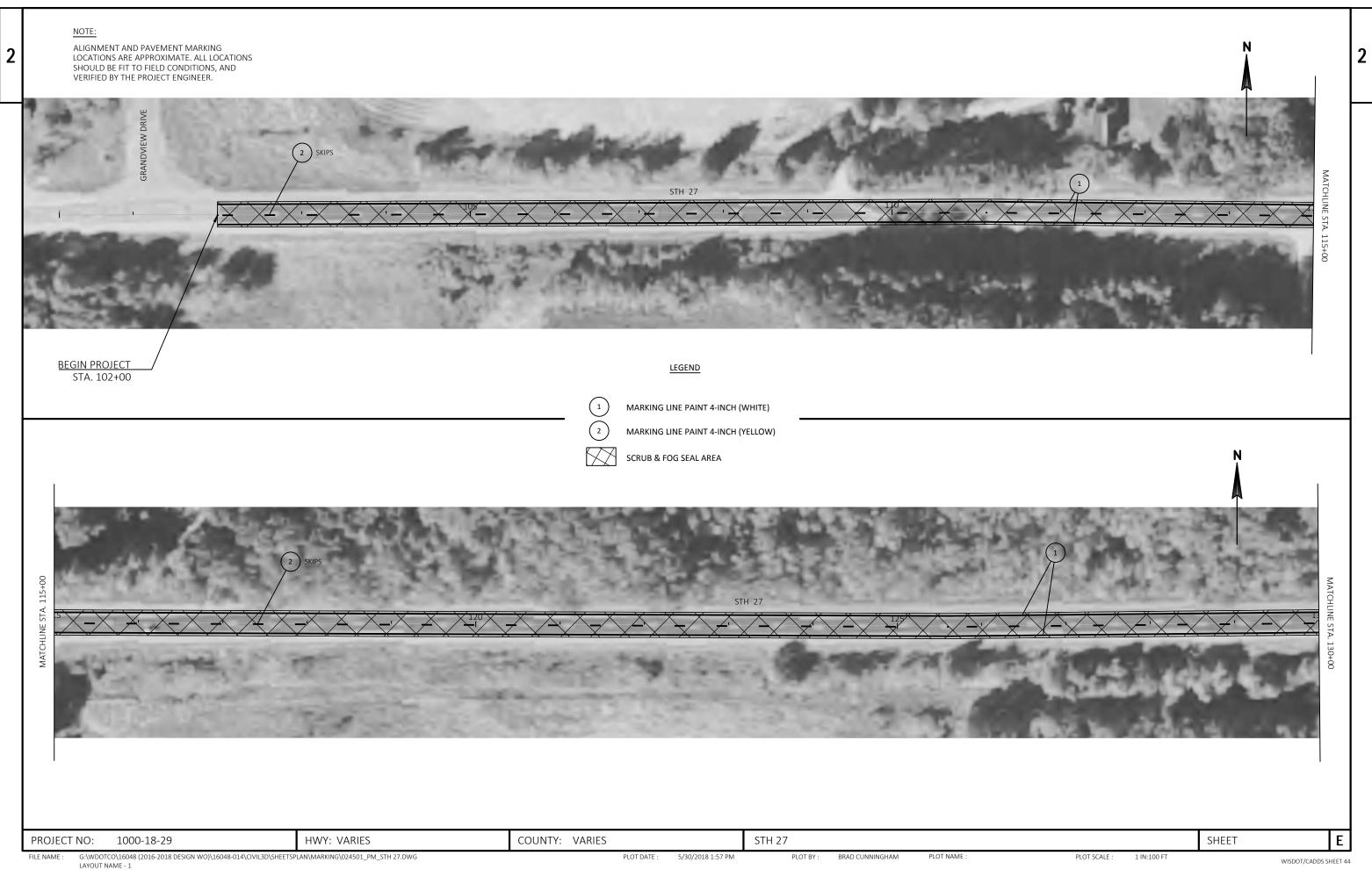


MAINLINE TRAFFIC CONTROL SIGN LAYOUT DETAIL



SIDE ROAD TRAFFIC CONTOL SIGN LAYOUT DETAIL

Ε PROJECT NO: 1000-18-29 HWY: VARIOUS COUNTY: VARIOUS PLAN: CONSTRUCTION DETAILS SHEET



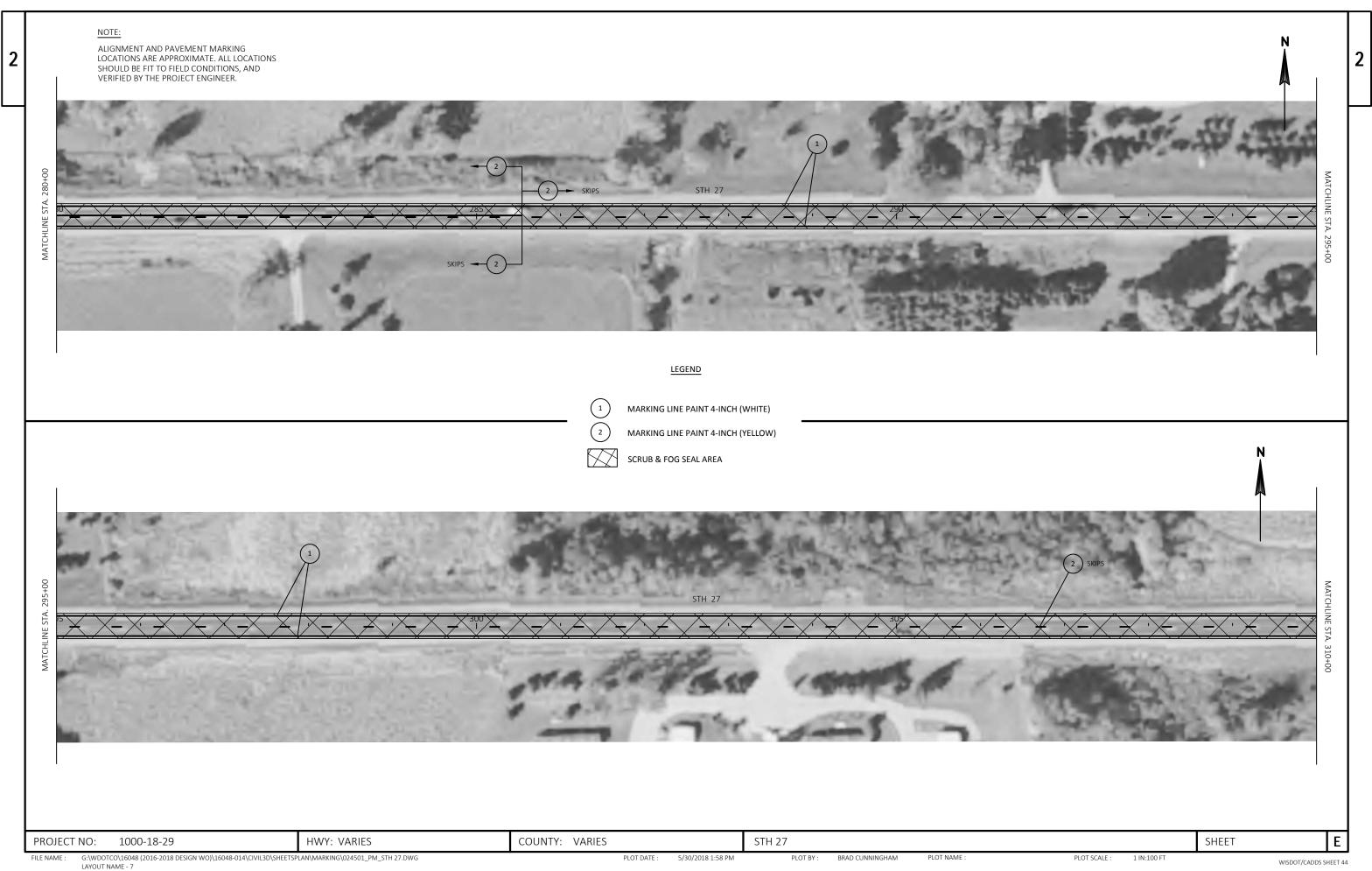


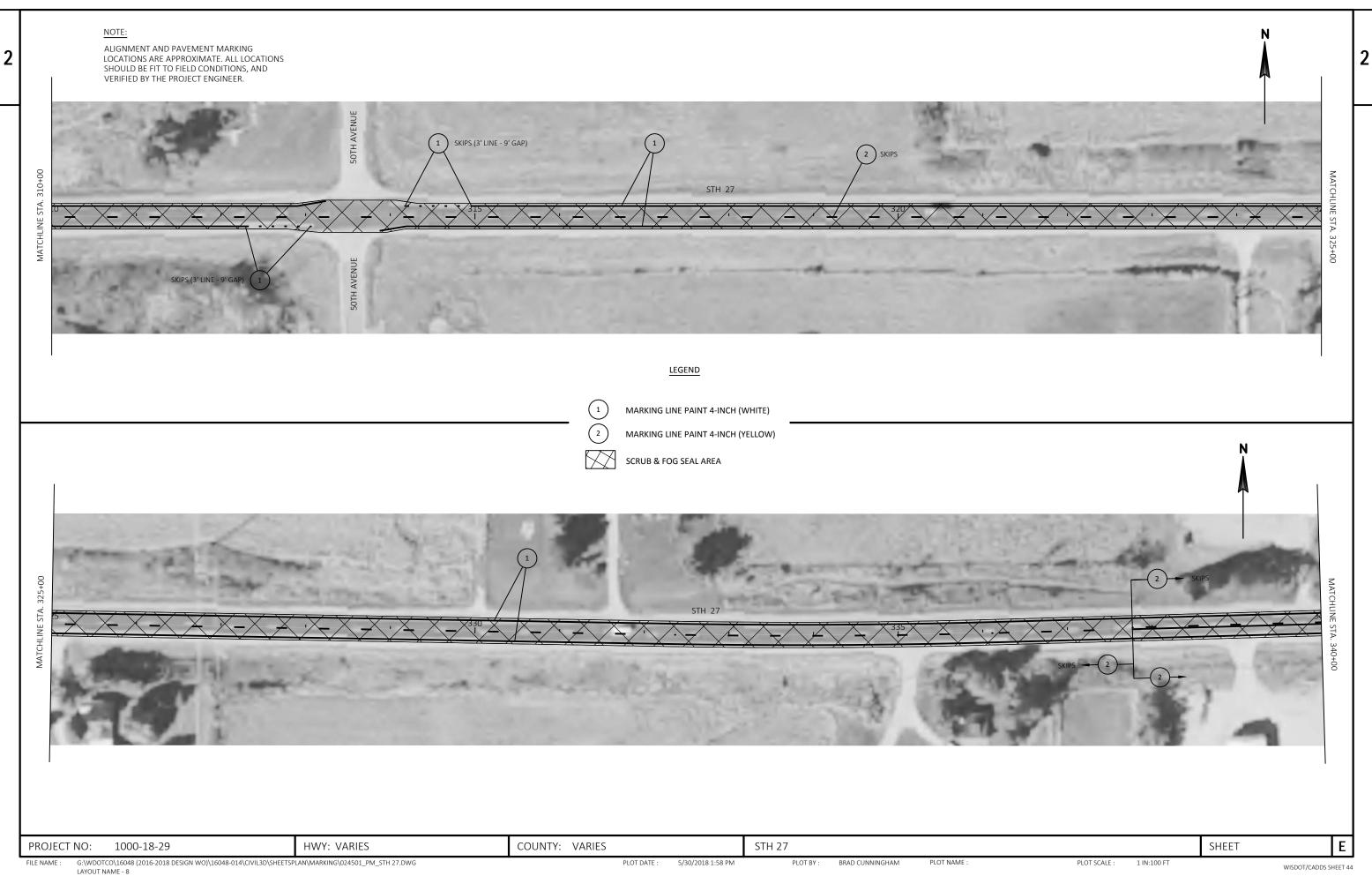




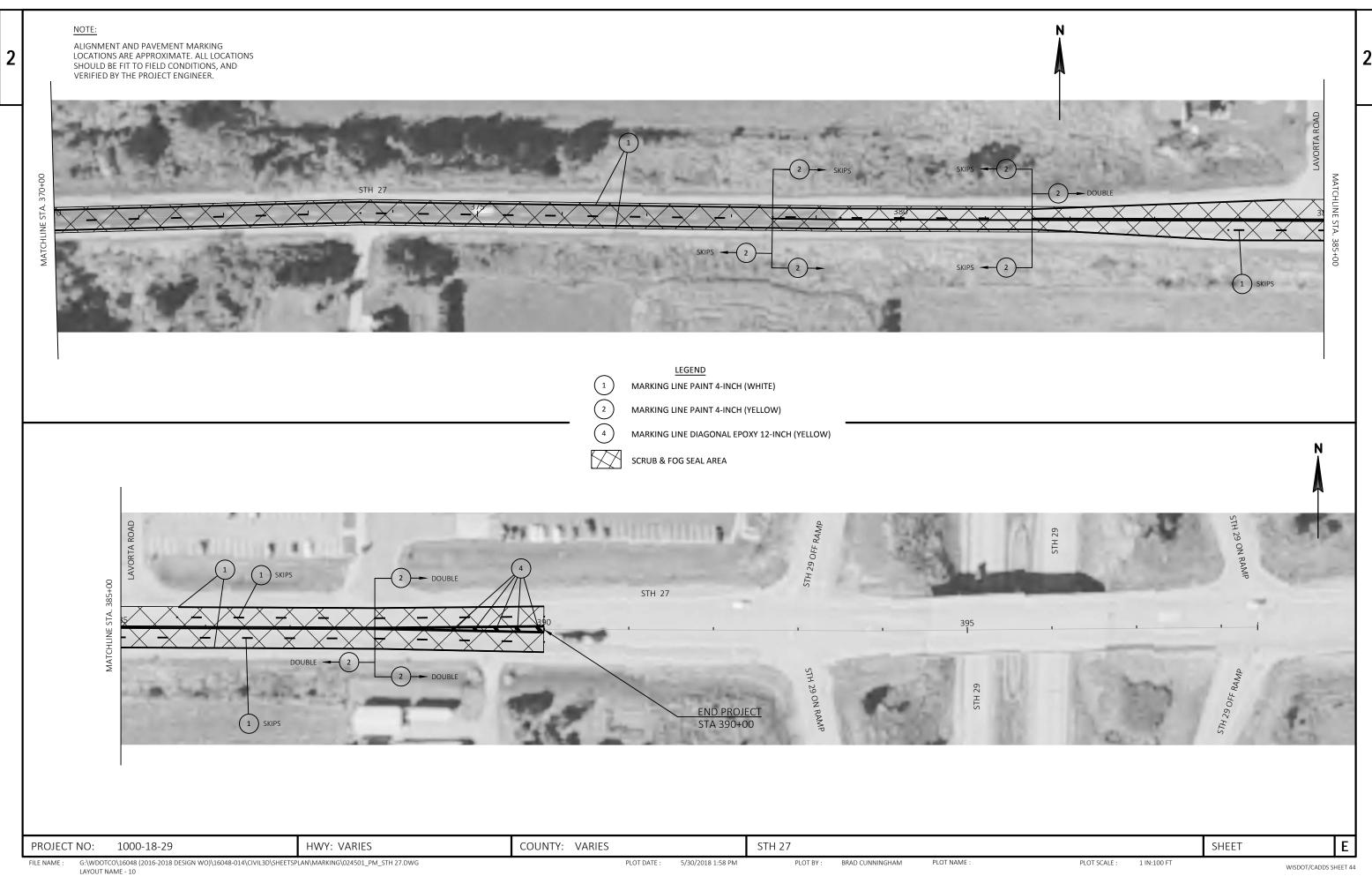


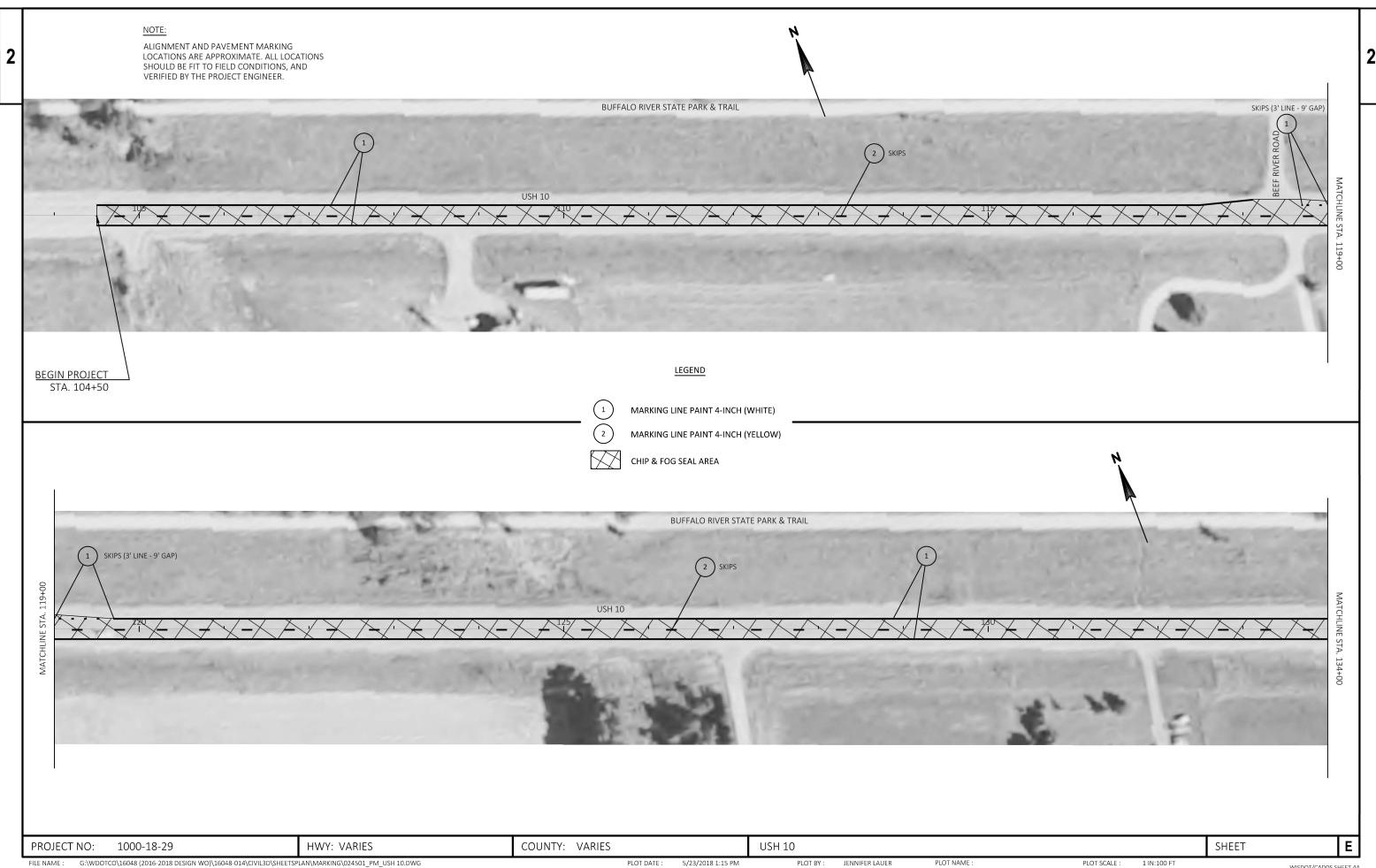


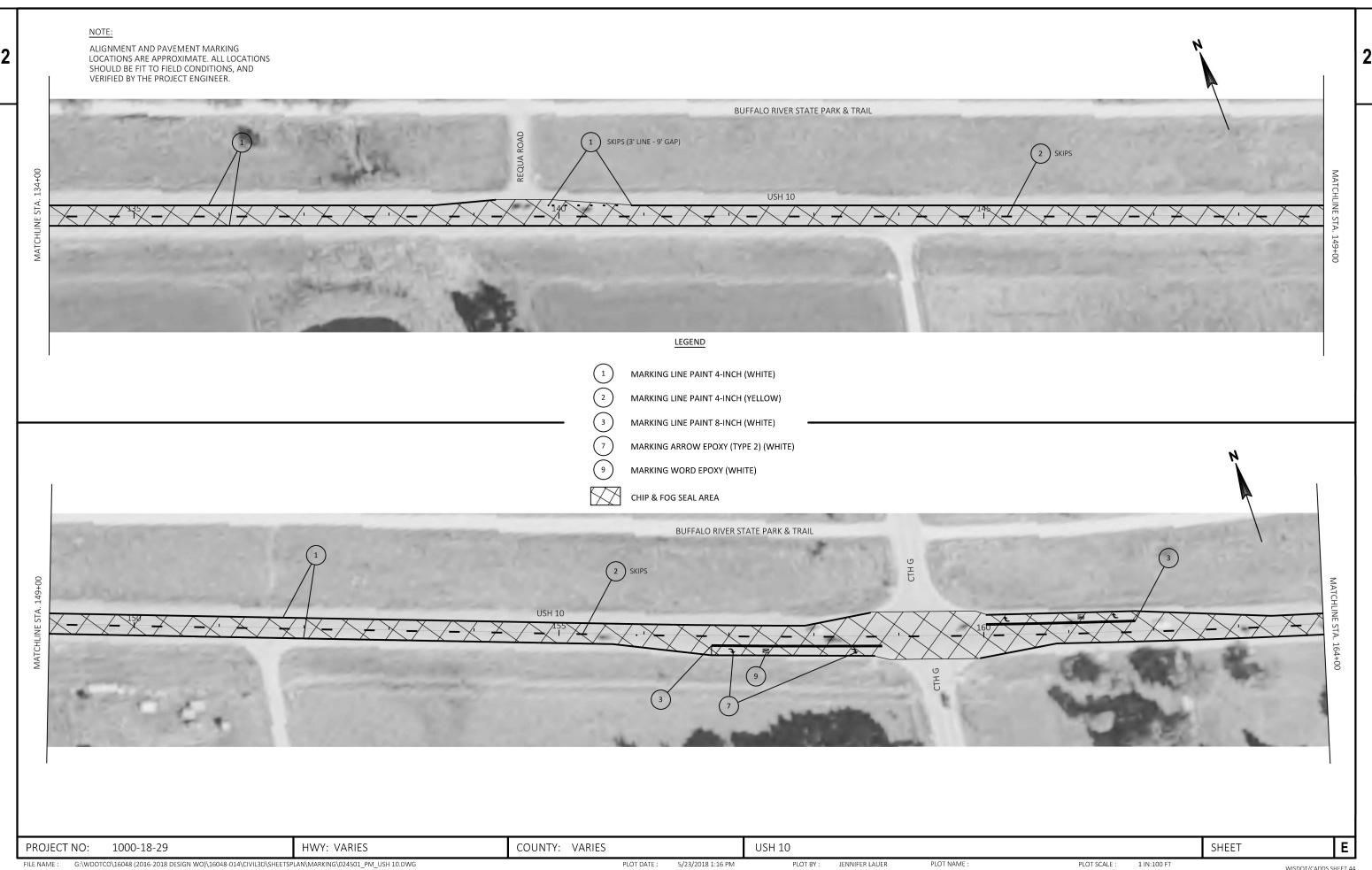


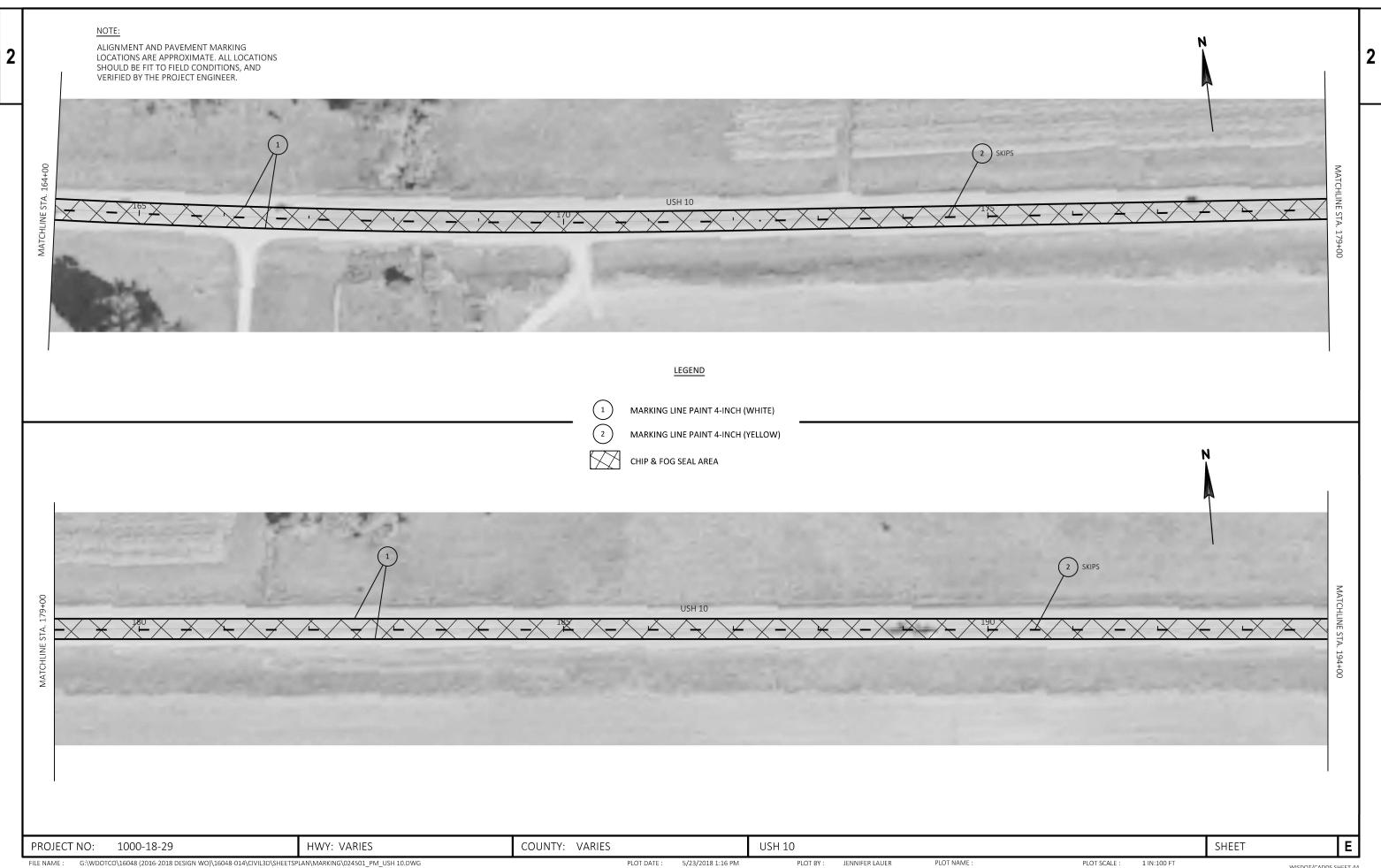




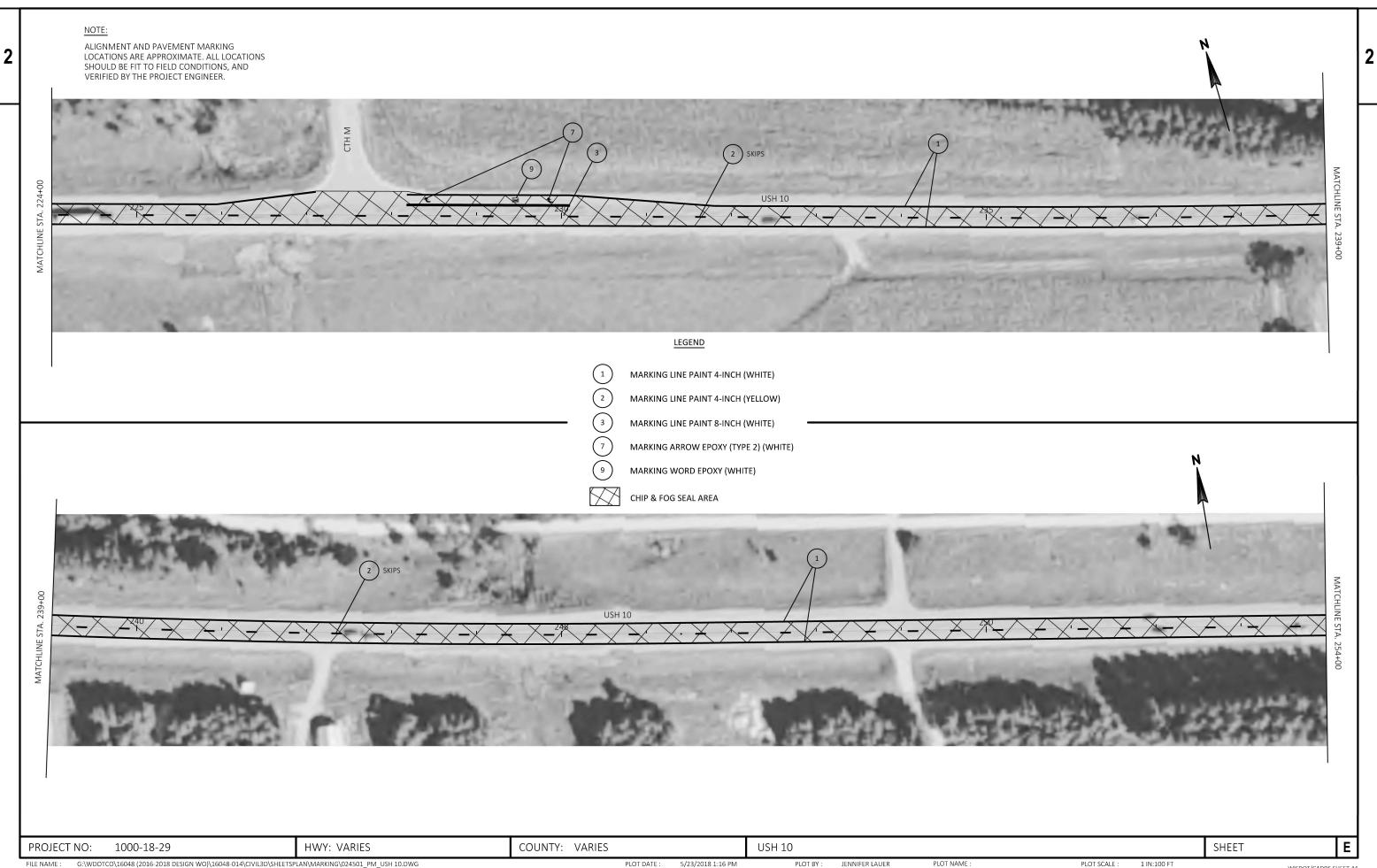


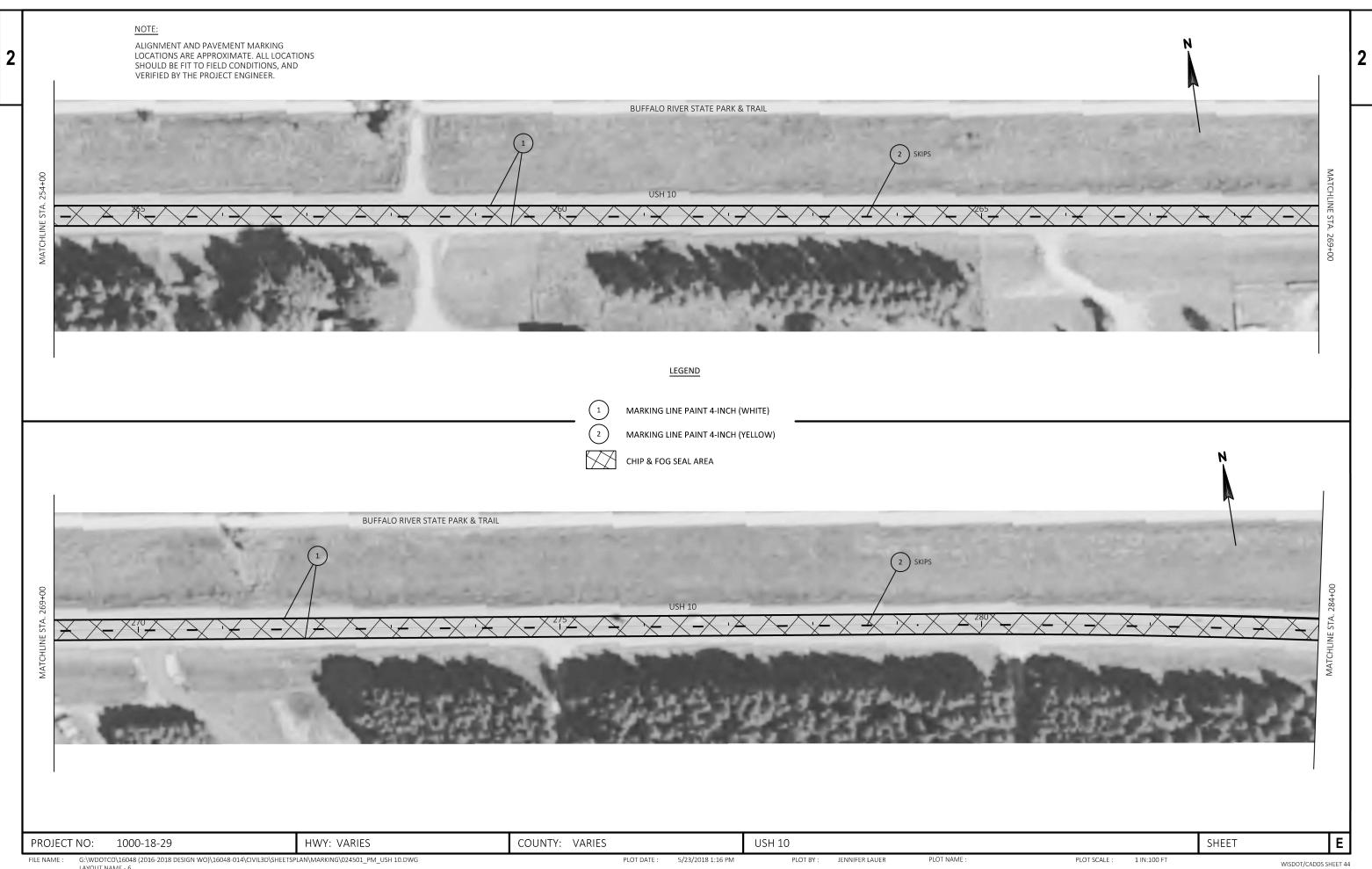




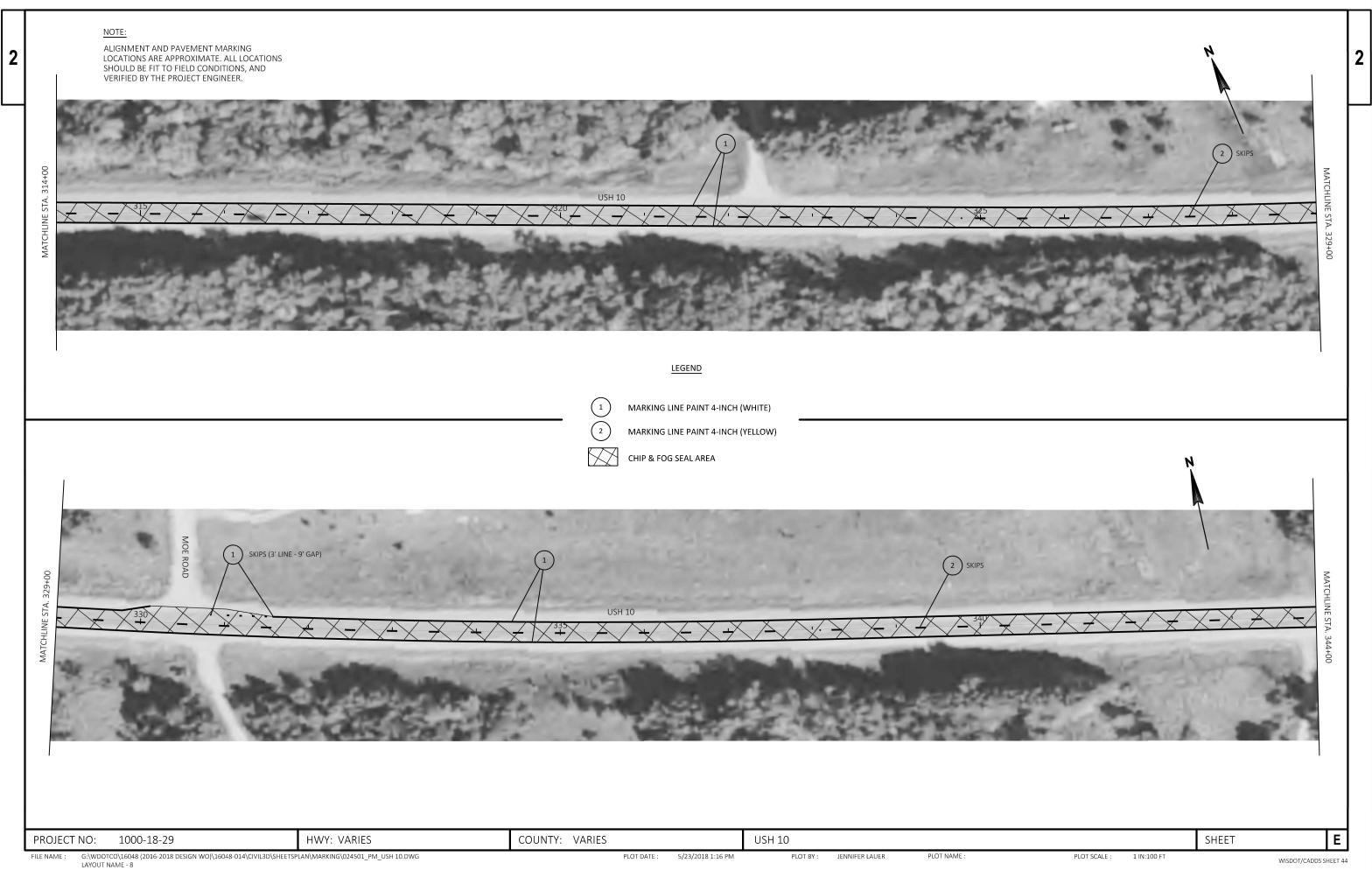


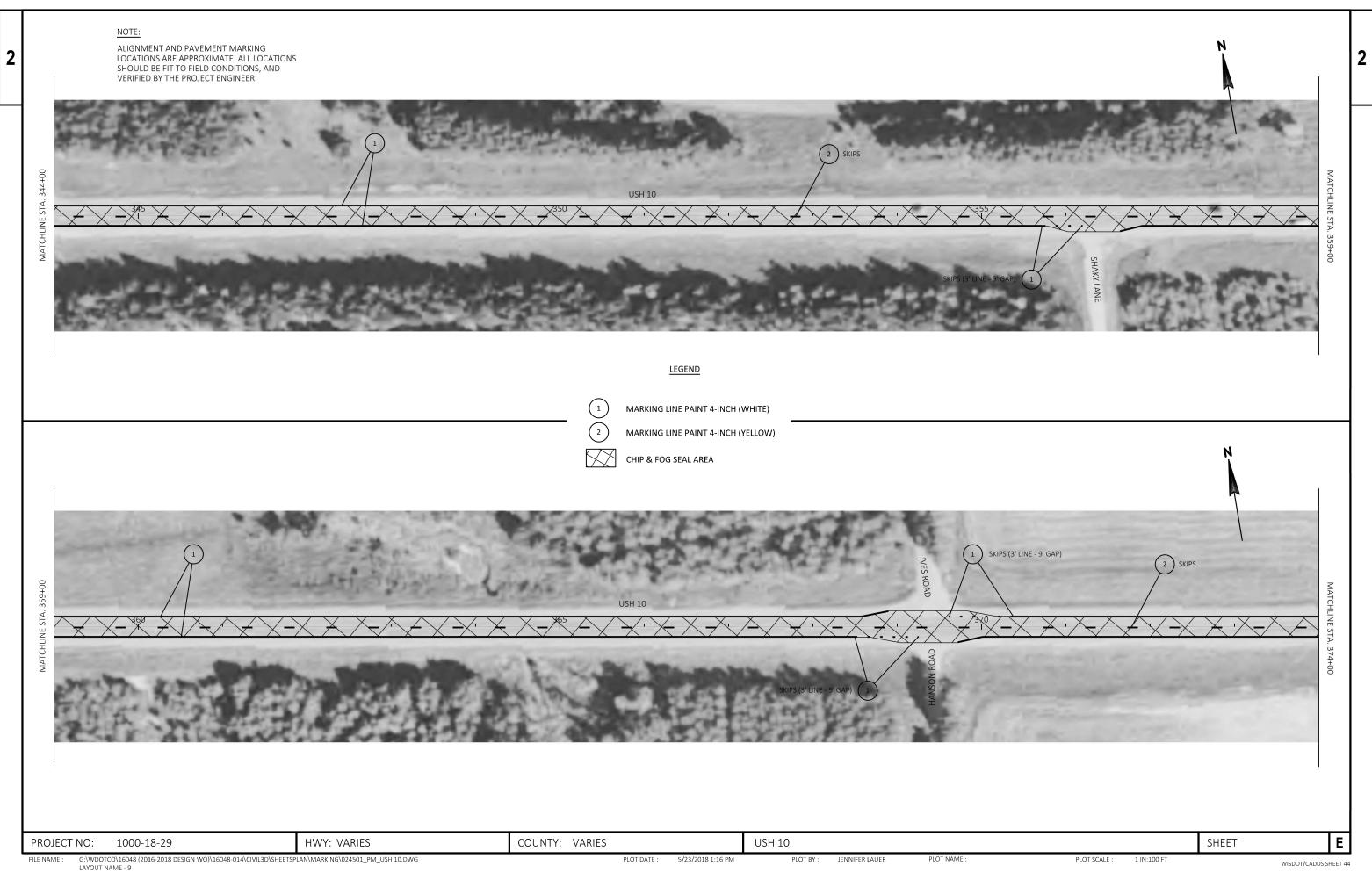


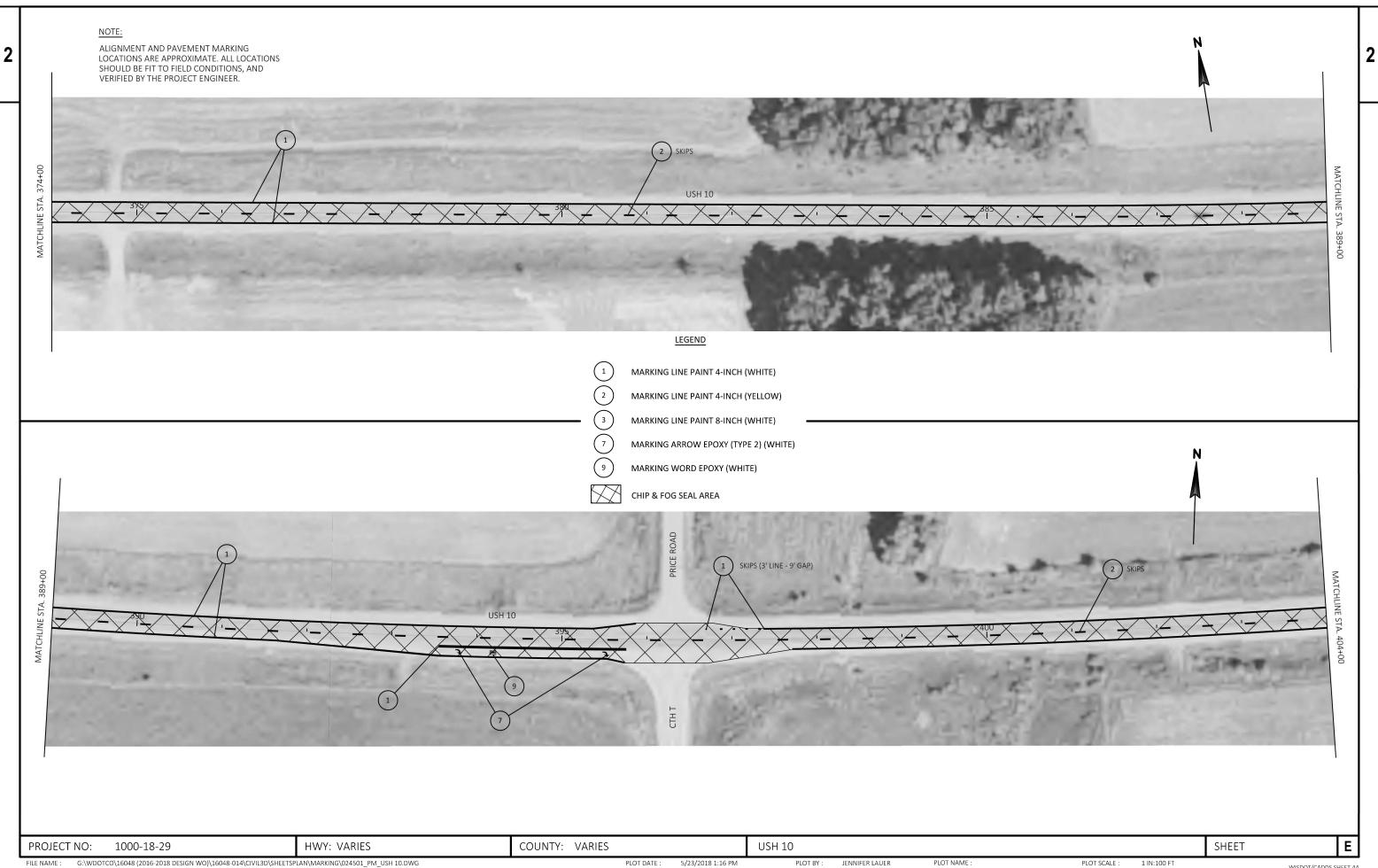




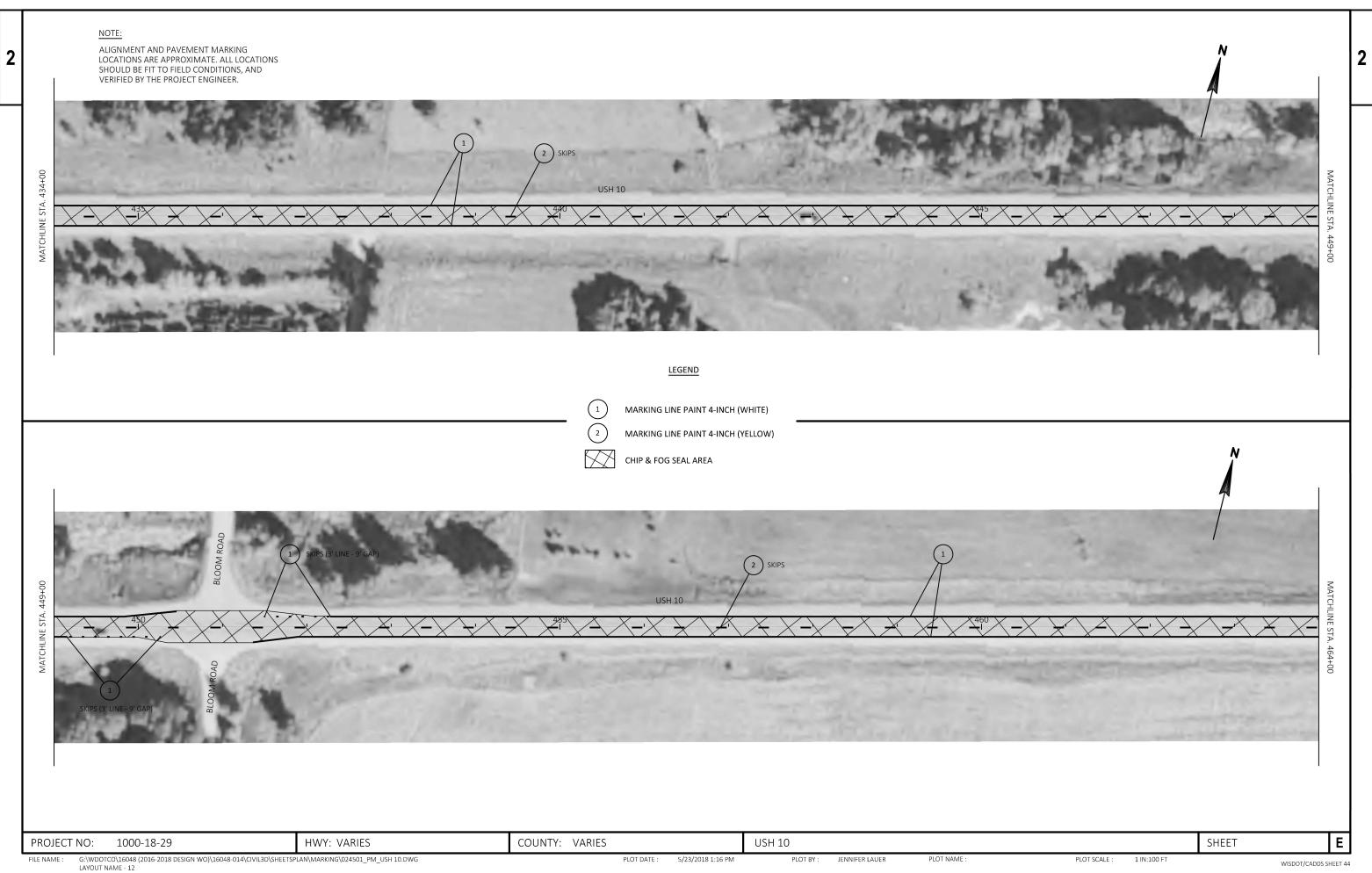




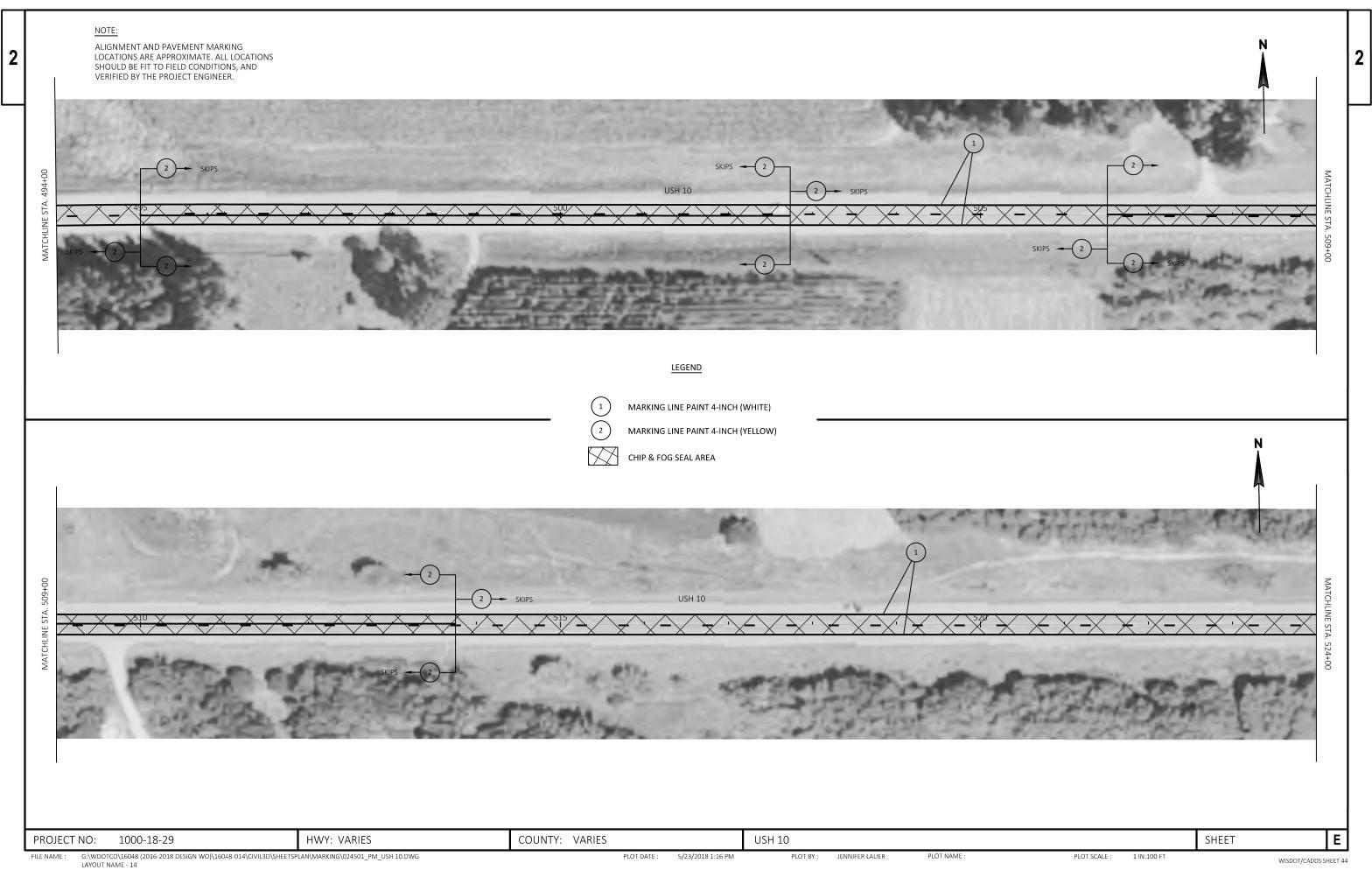


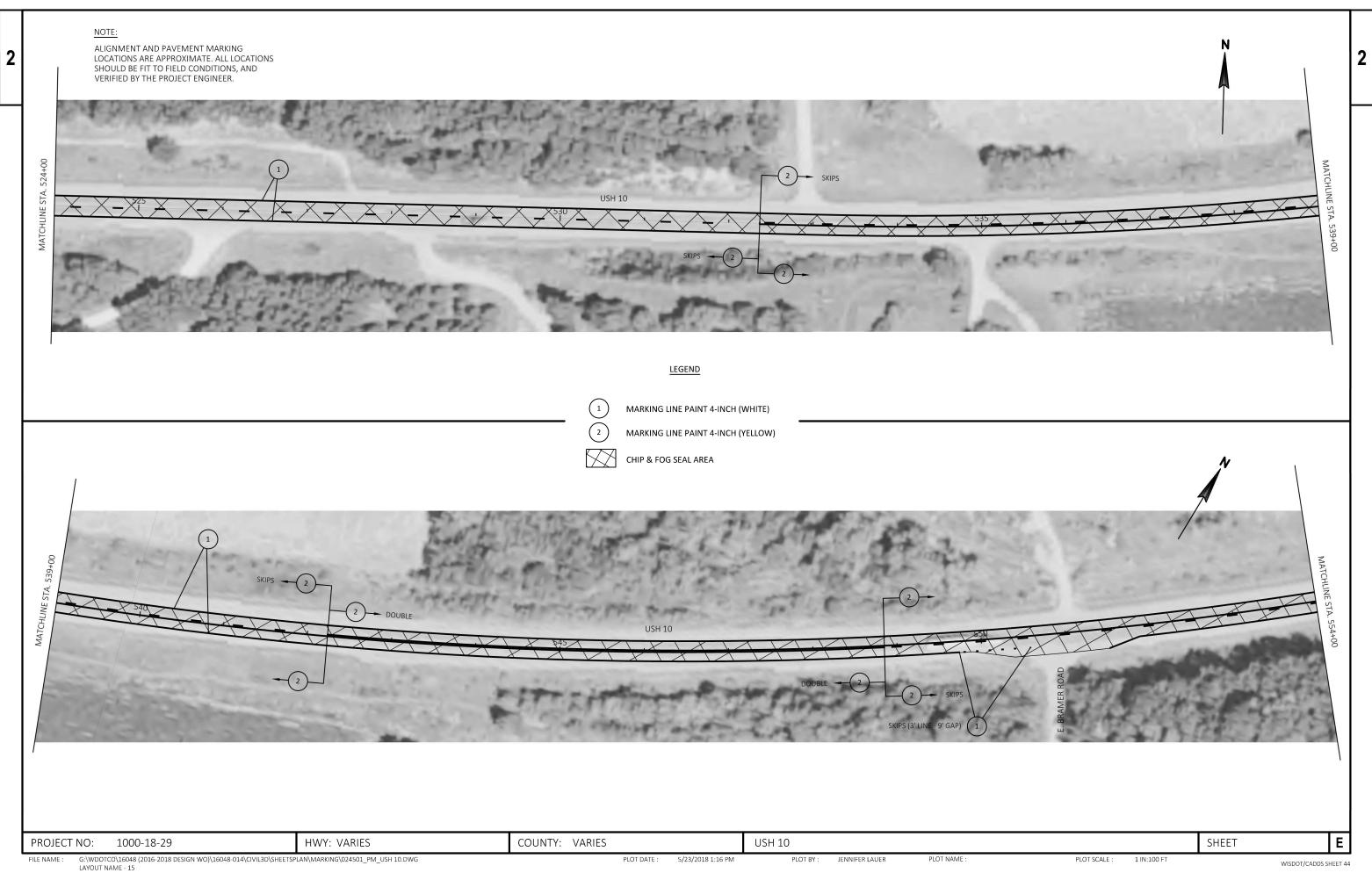


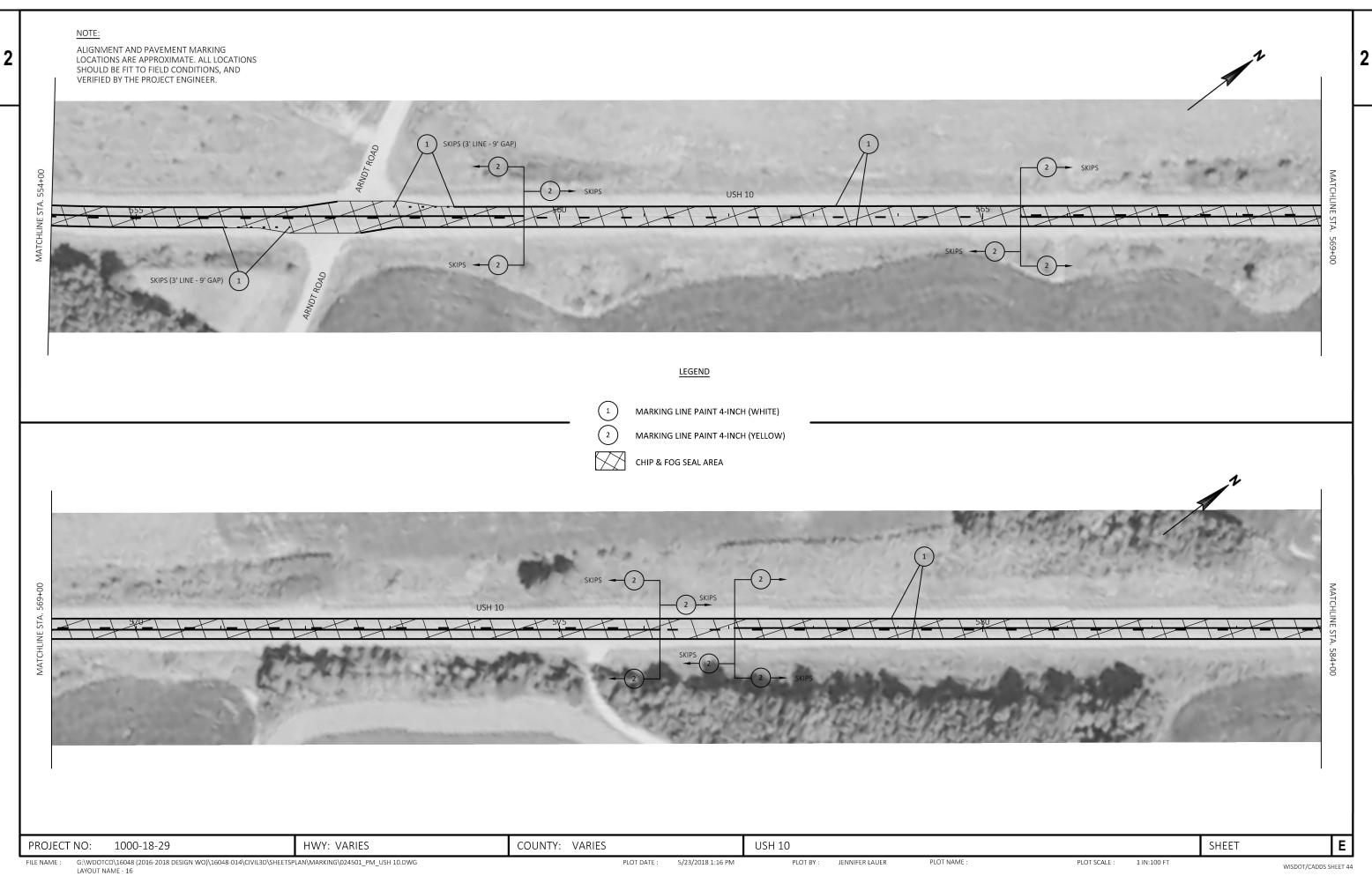


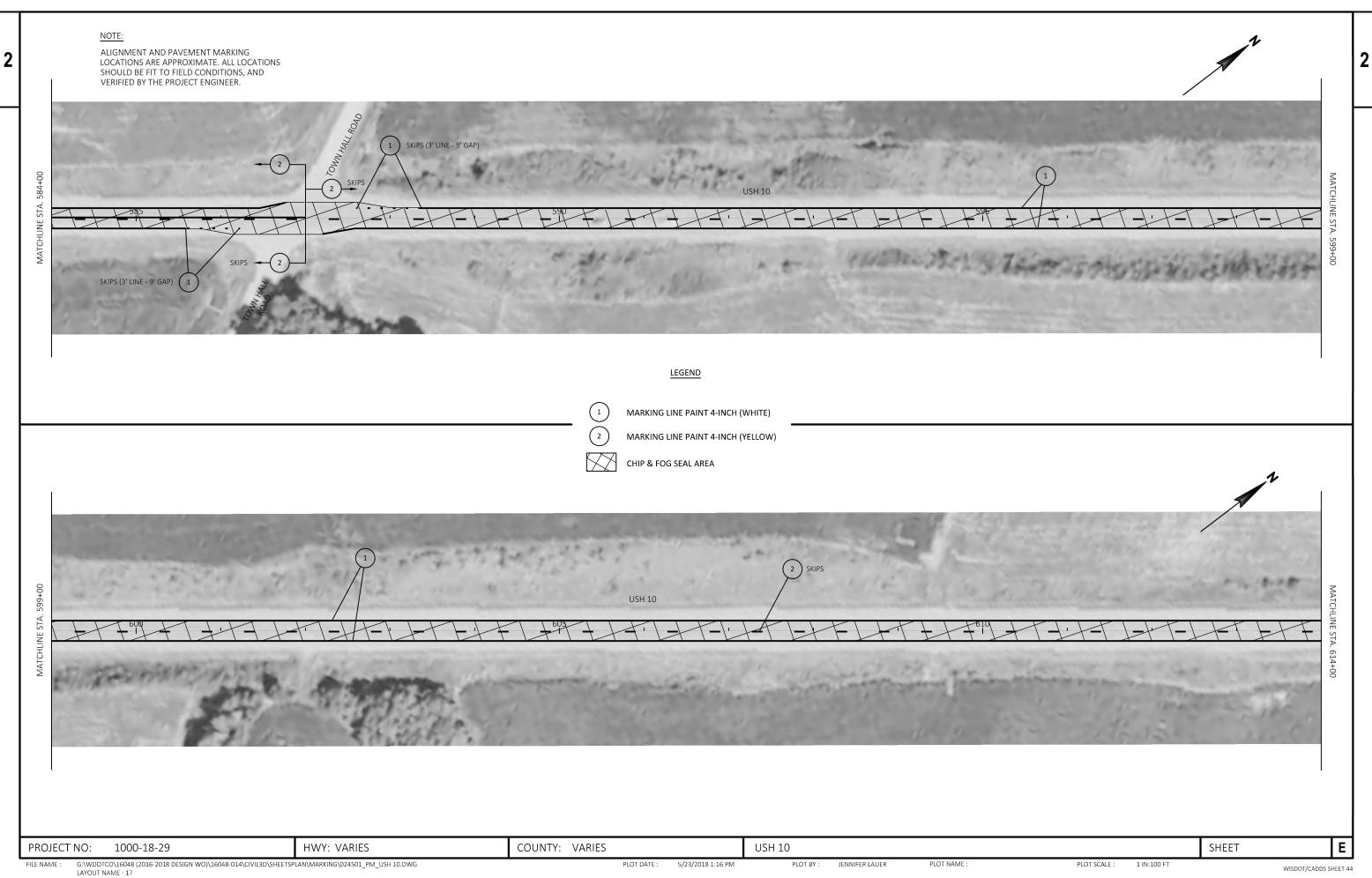




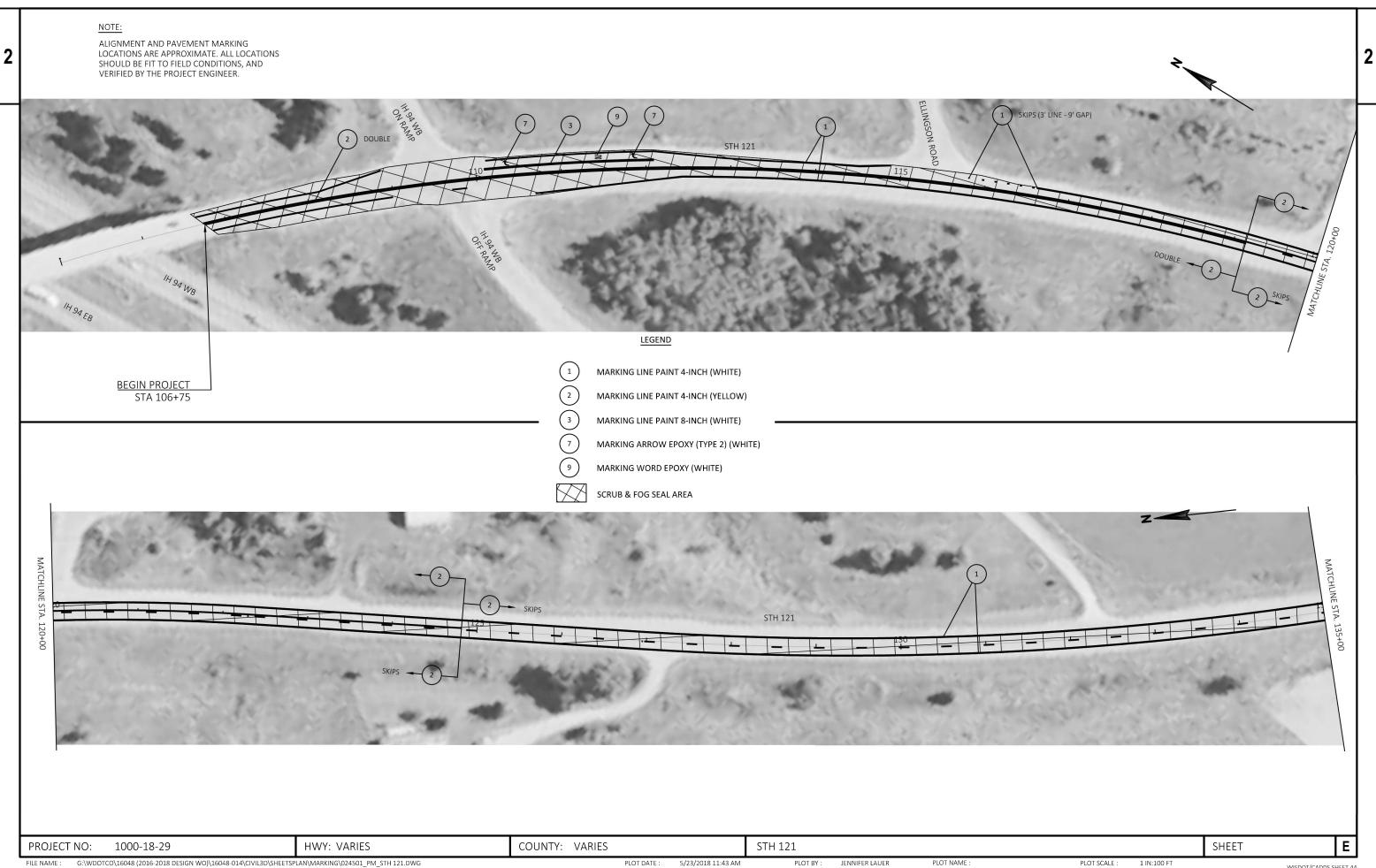


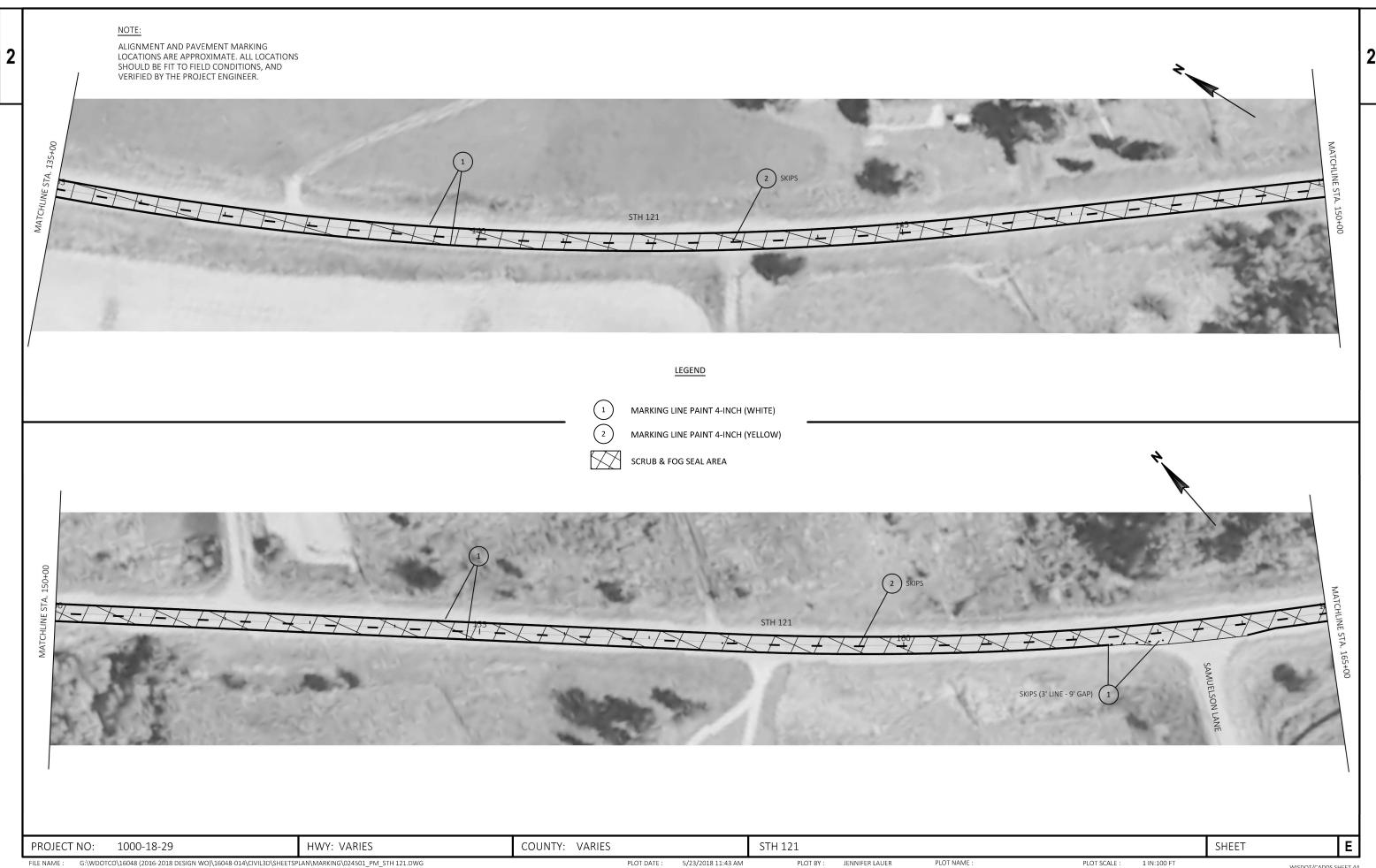


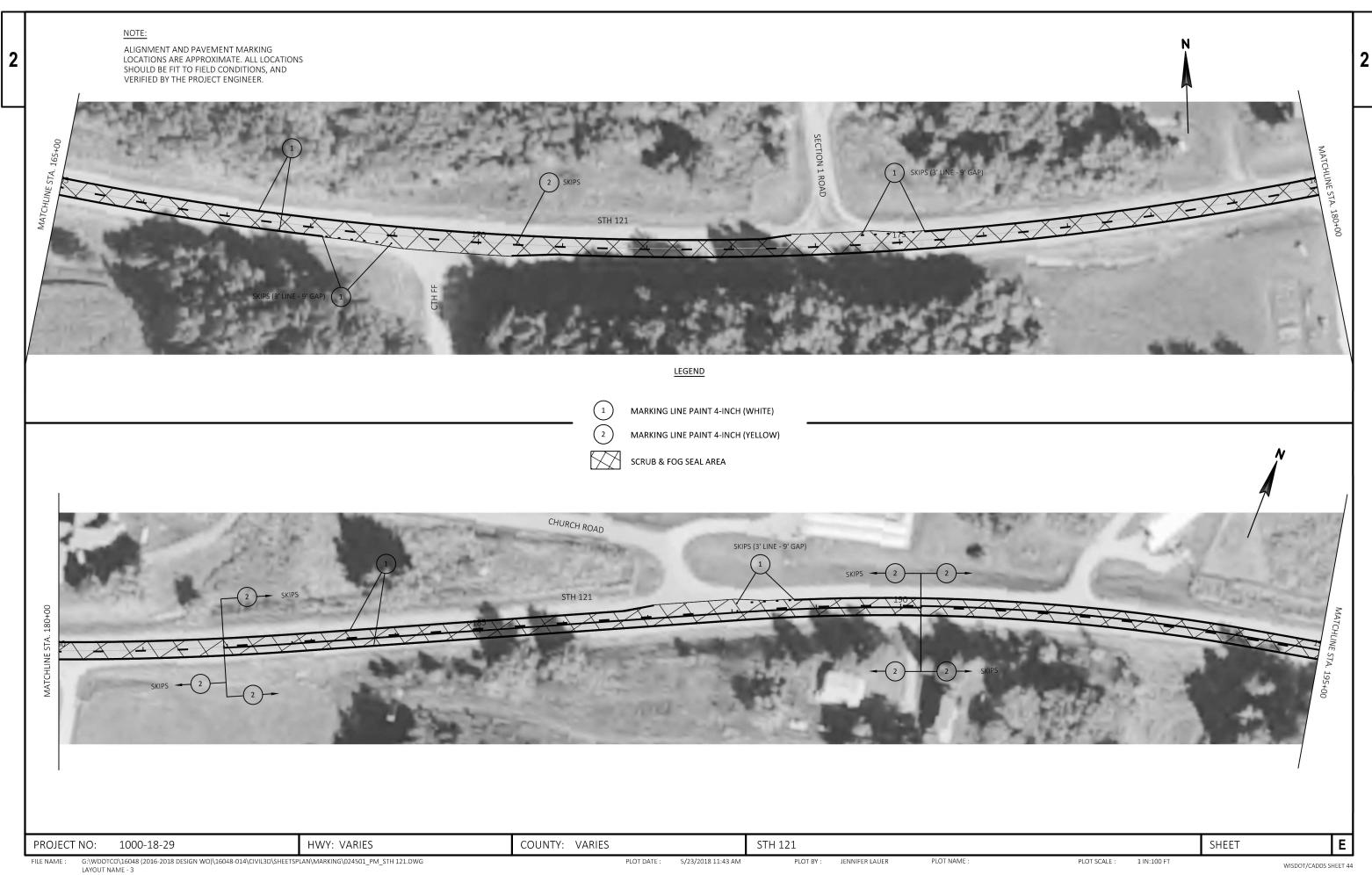


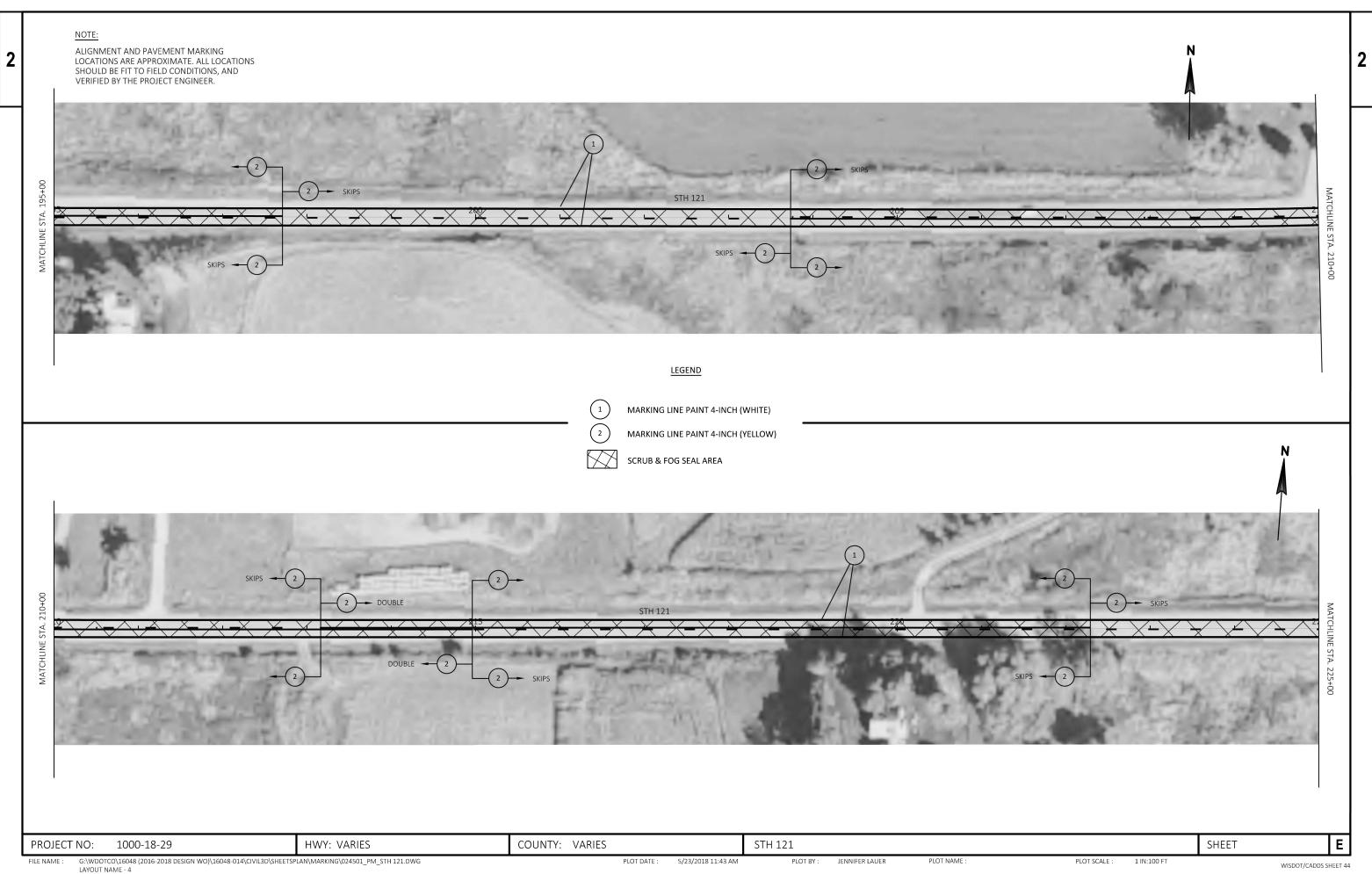




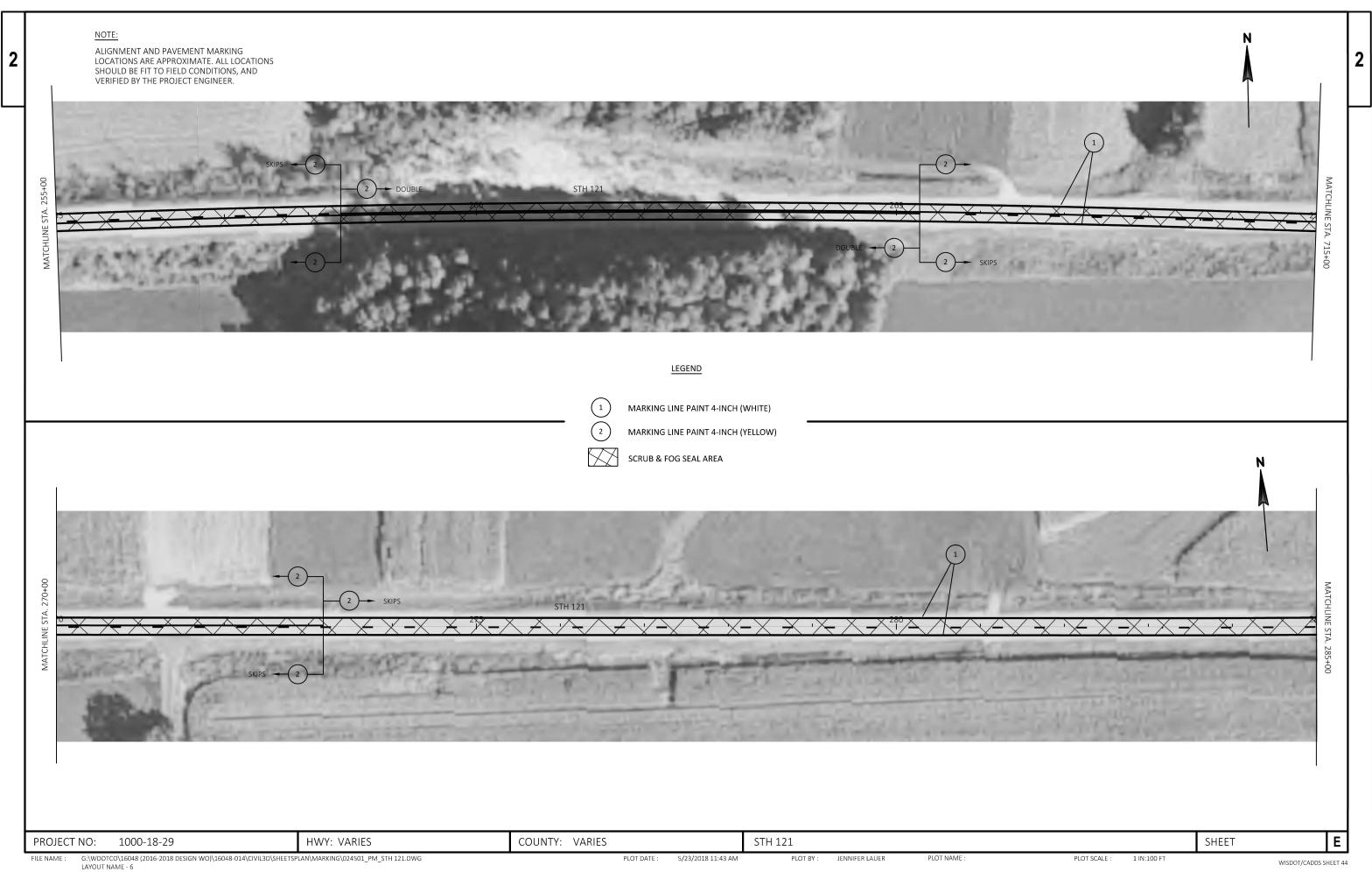






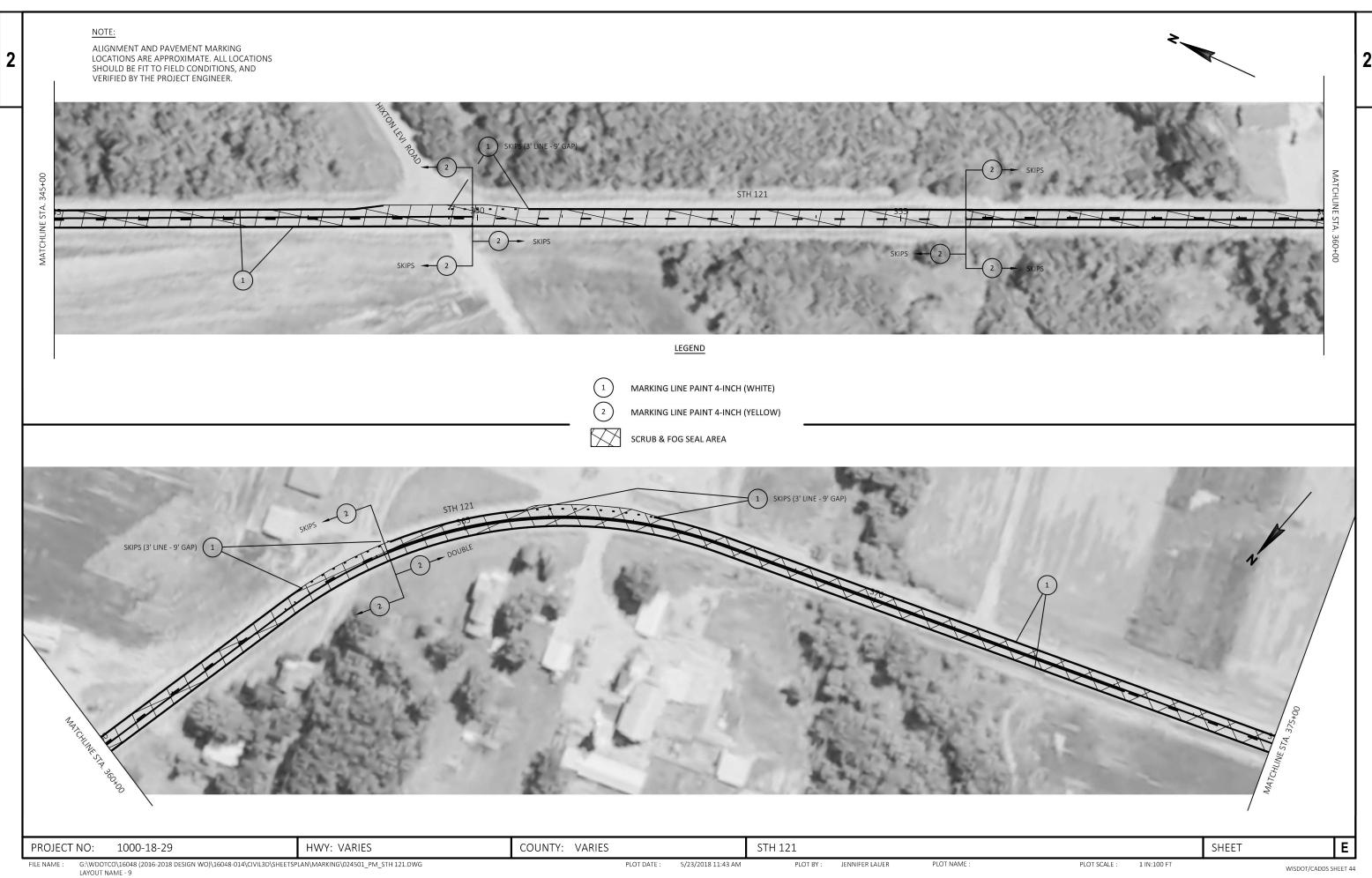


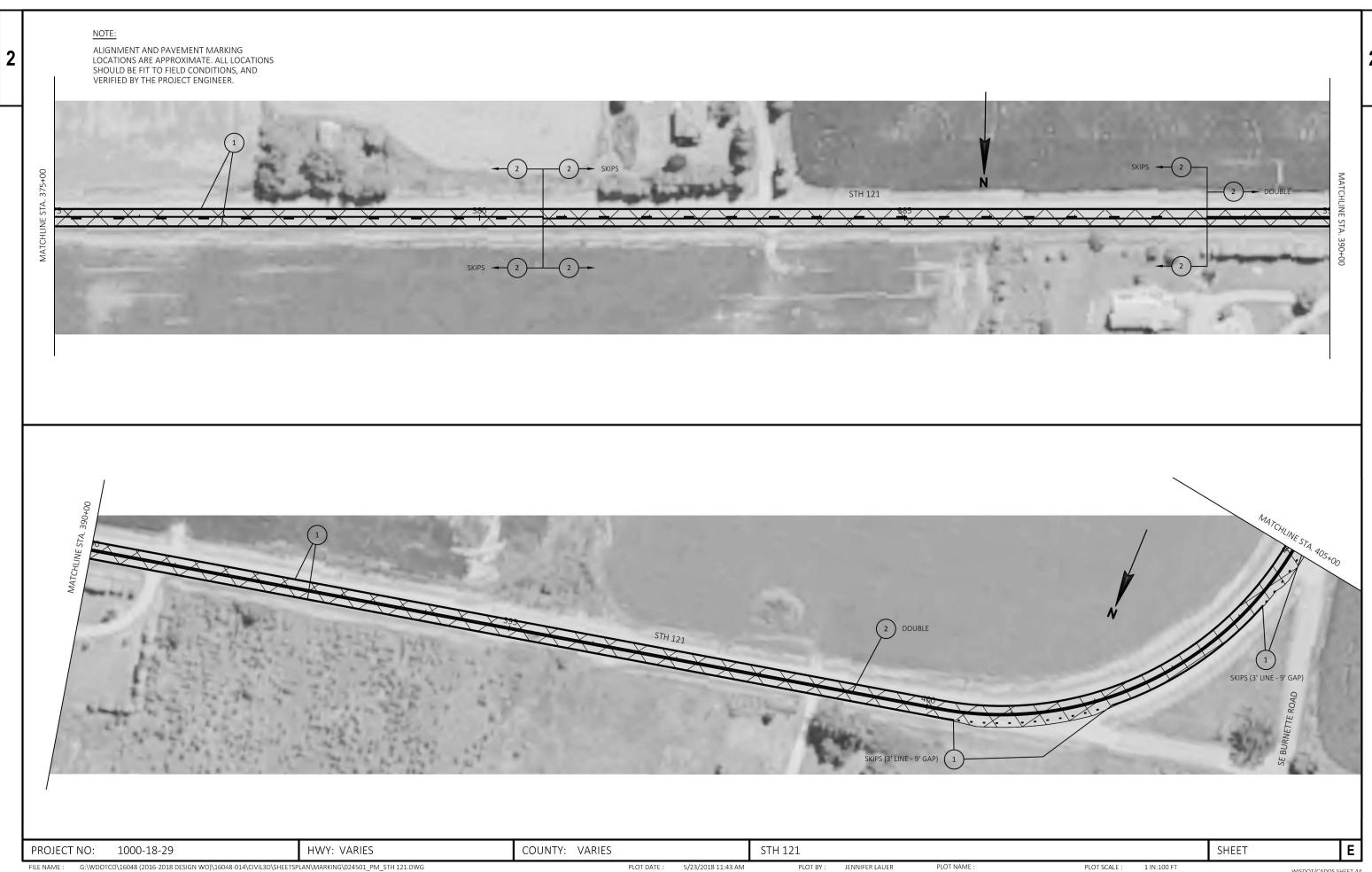


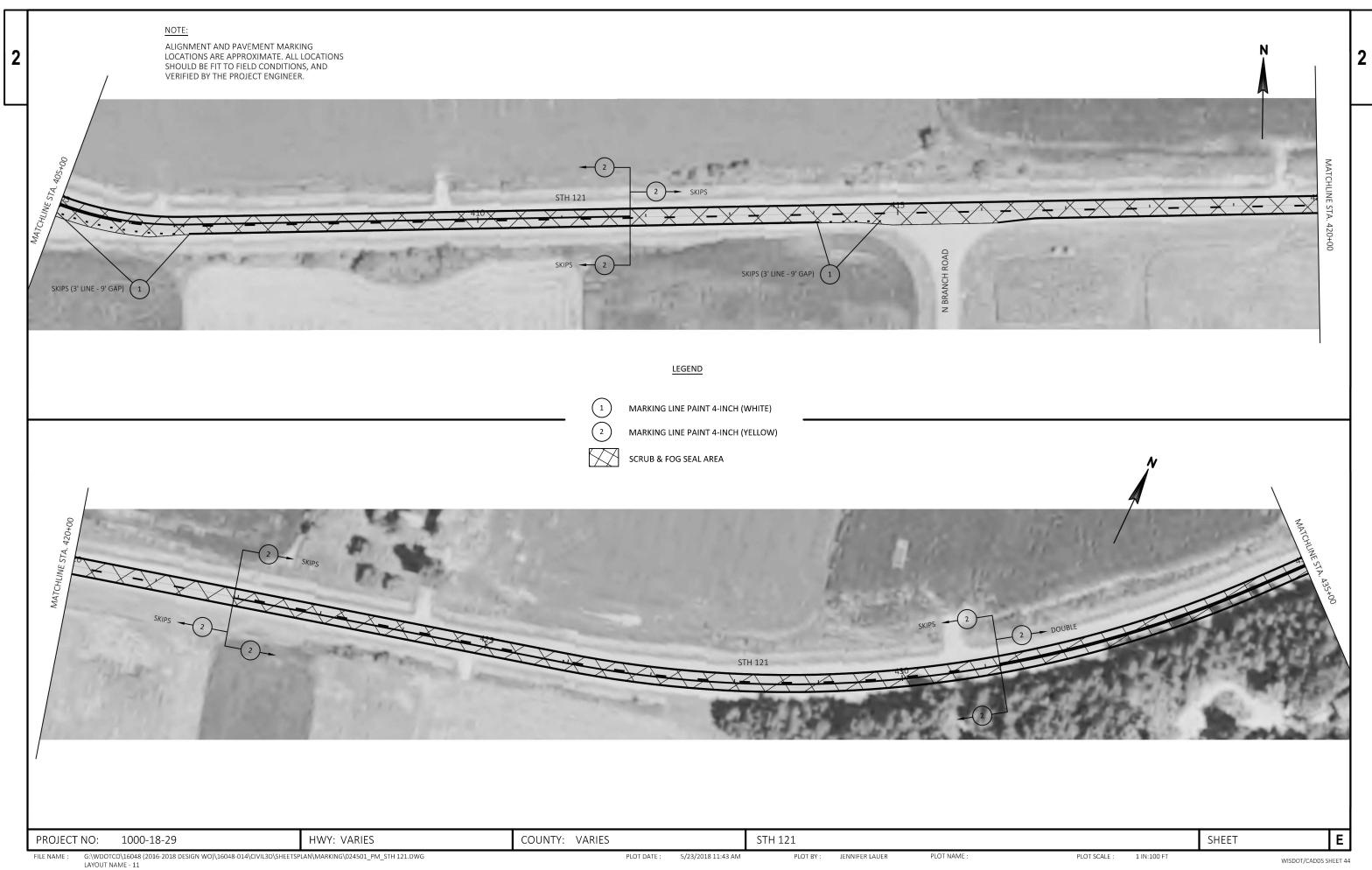


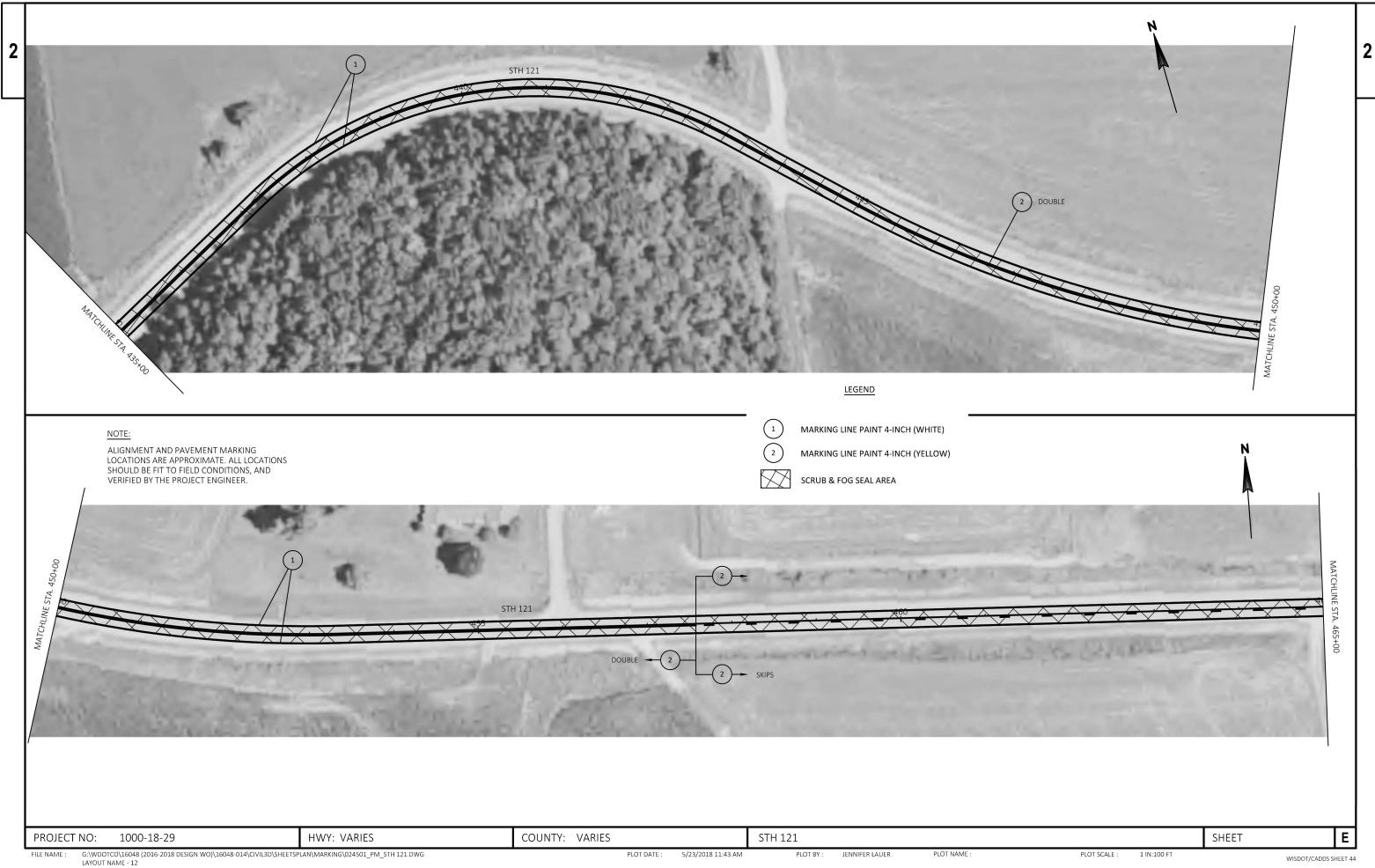


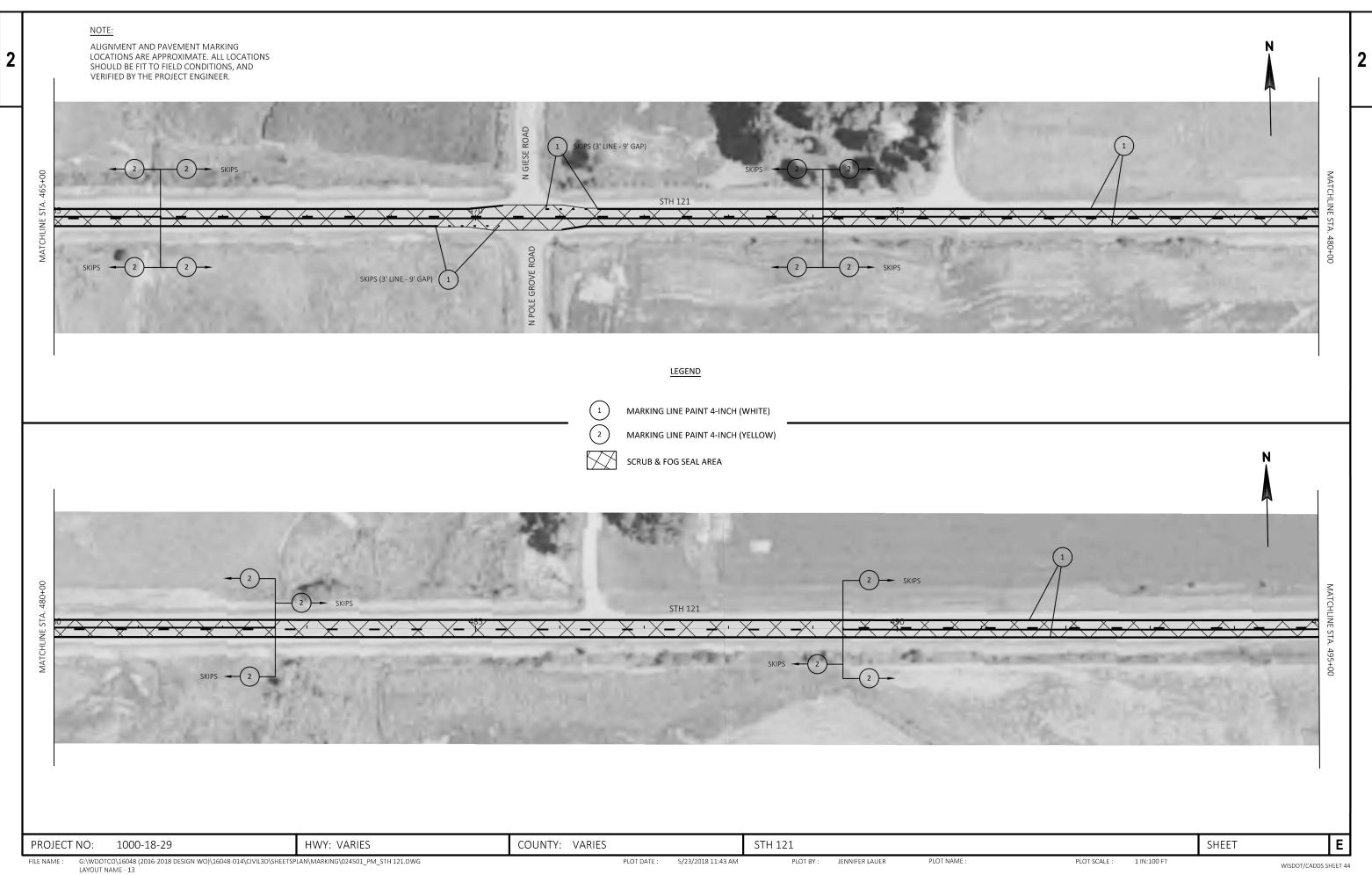


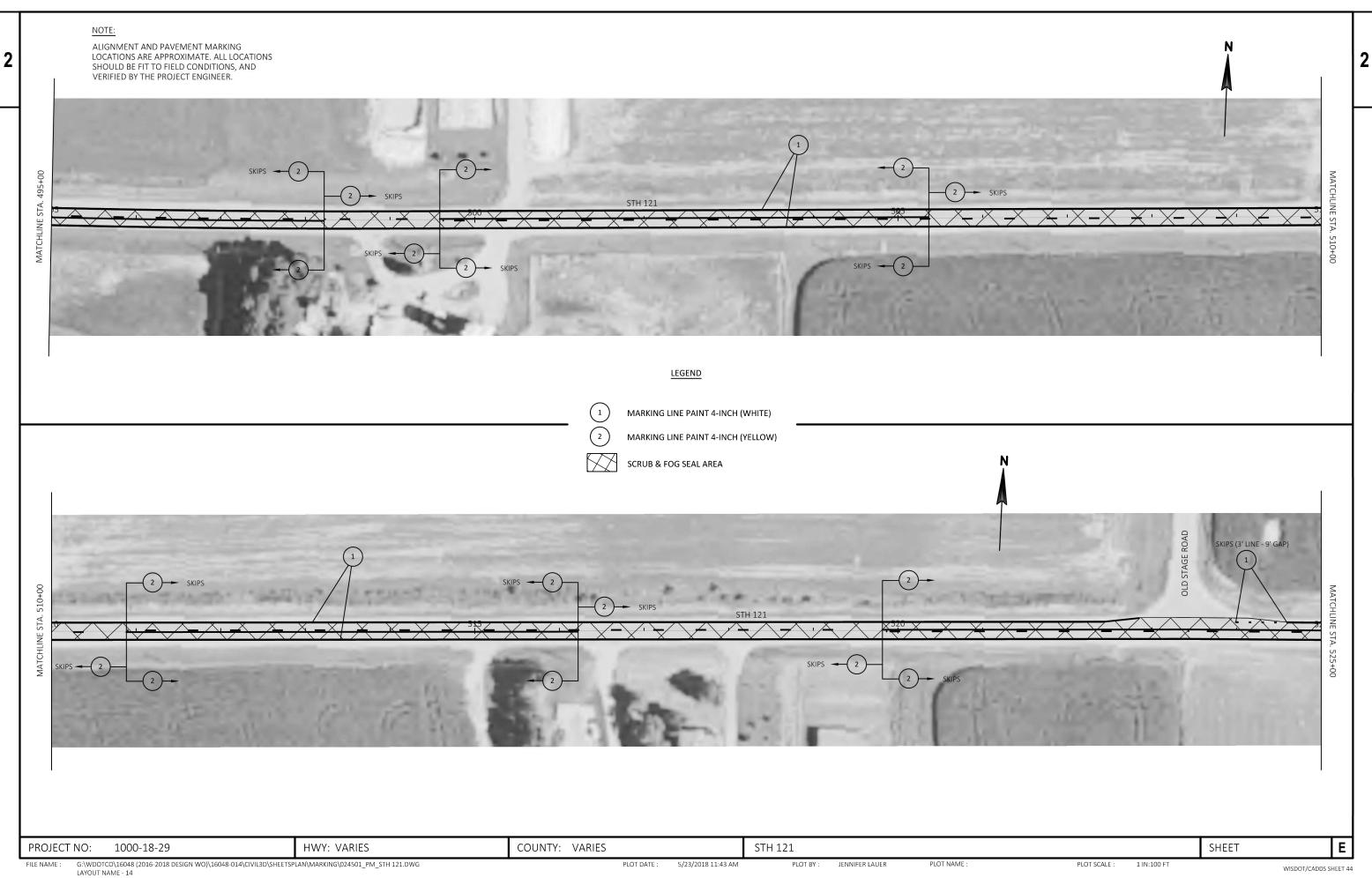




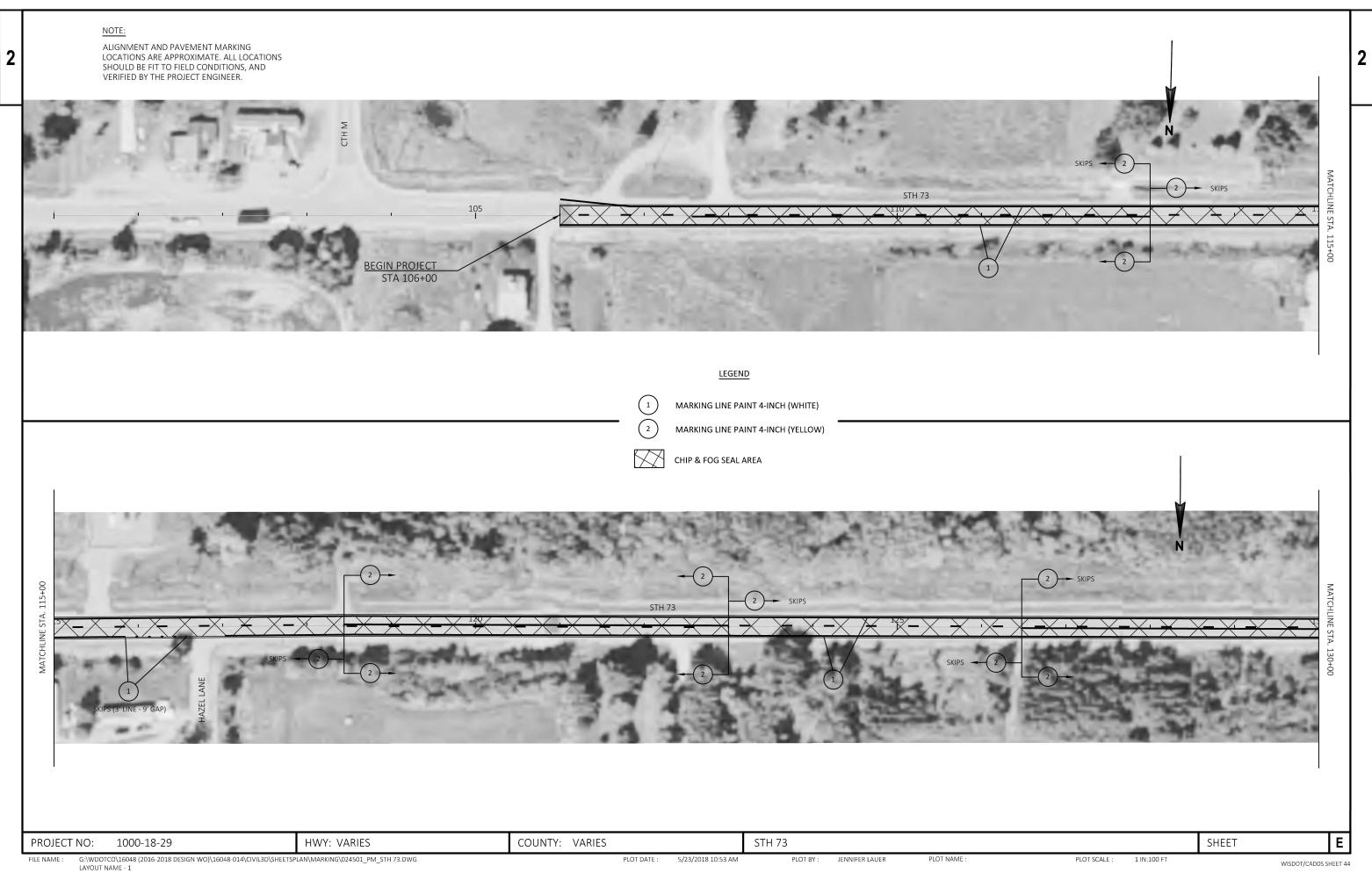


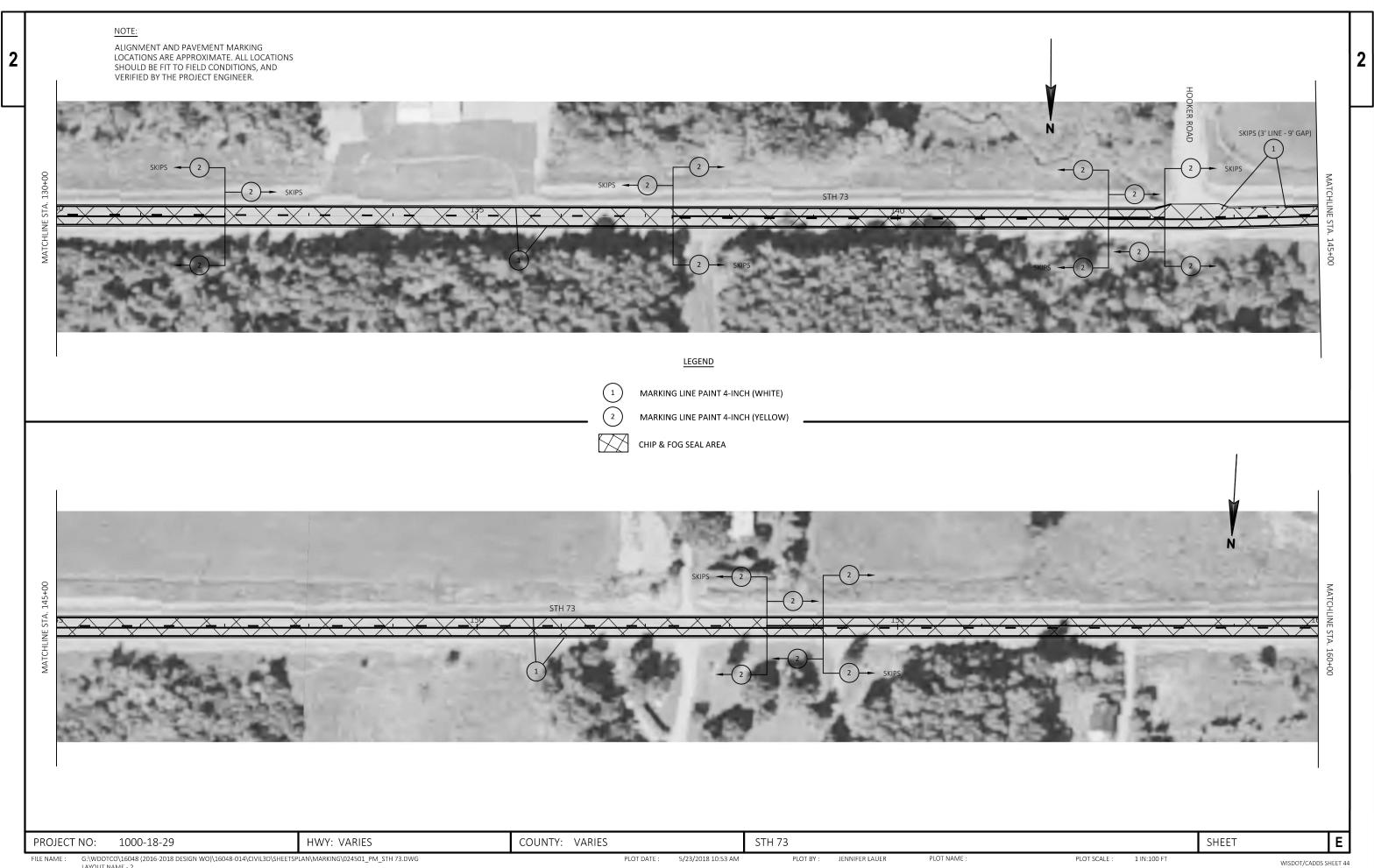


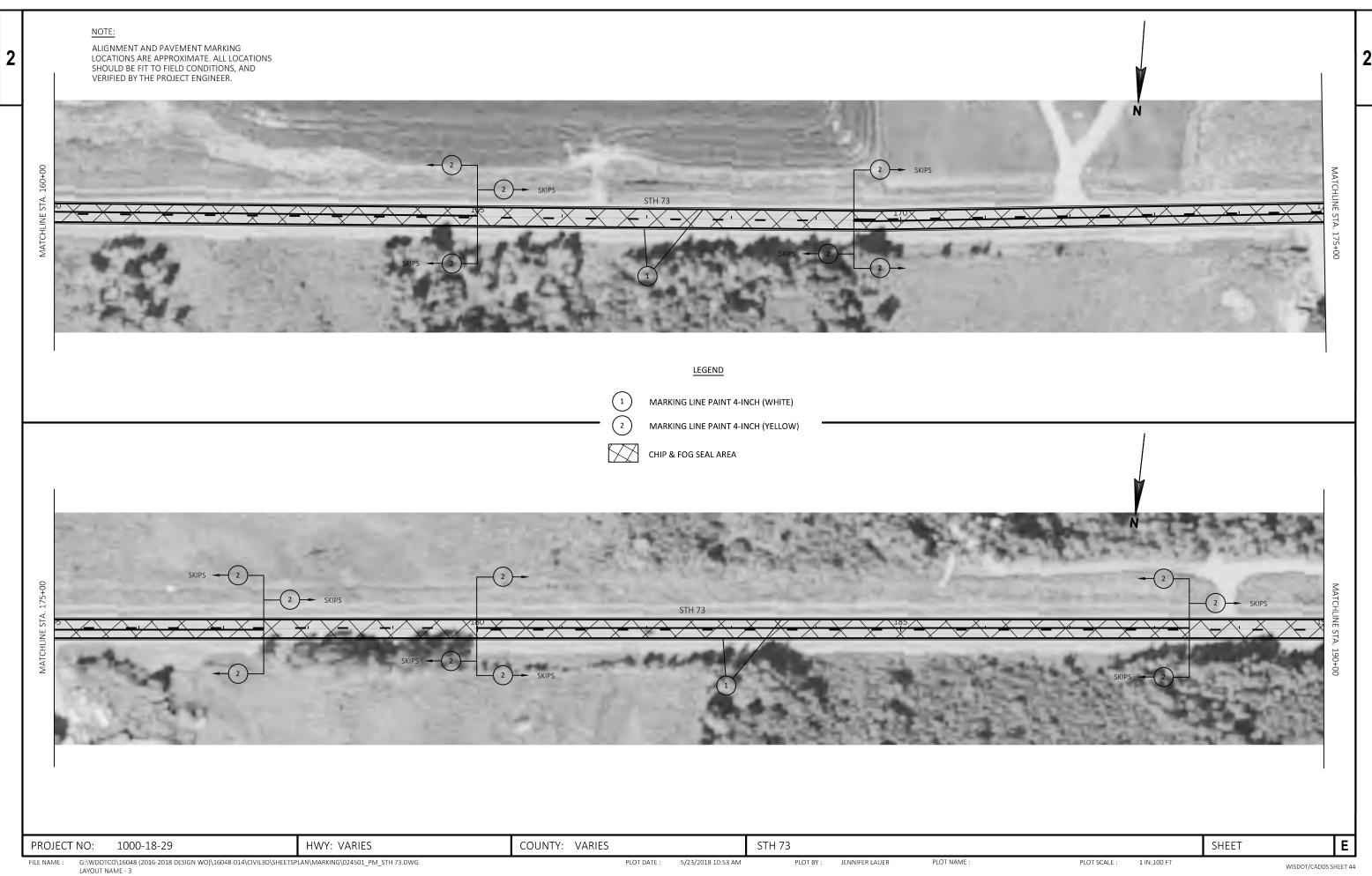


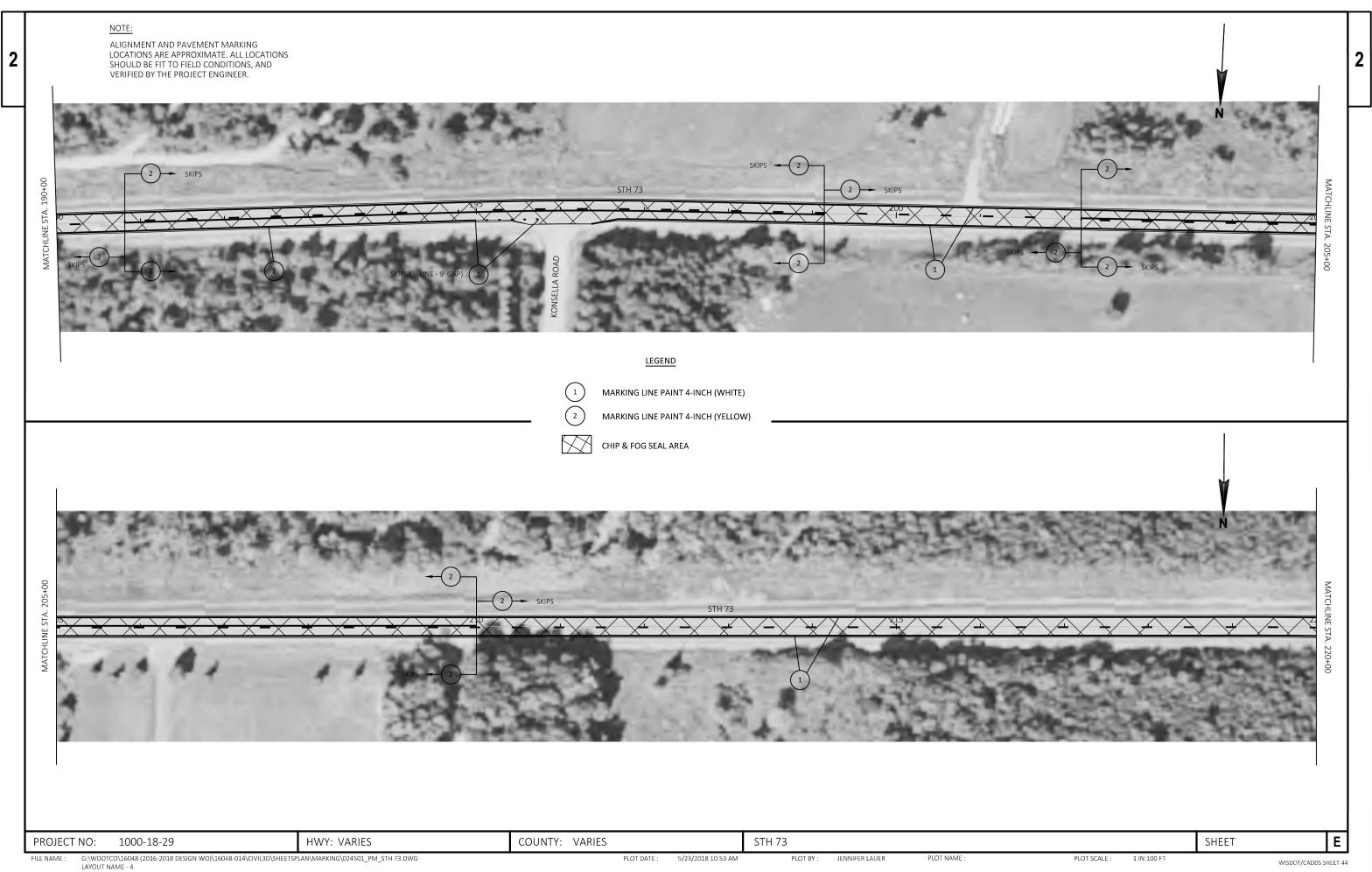




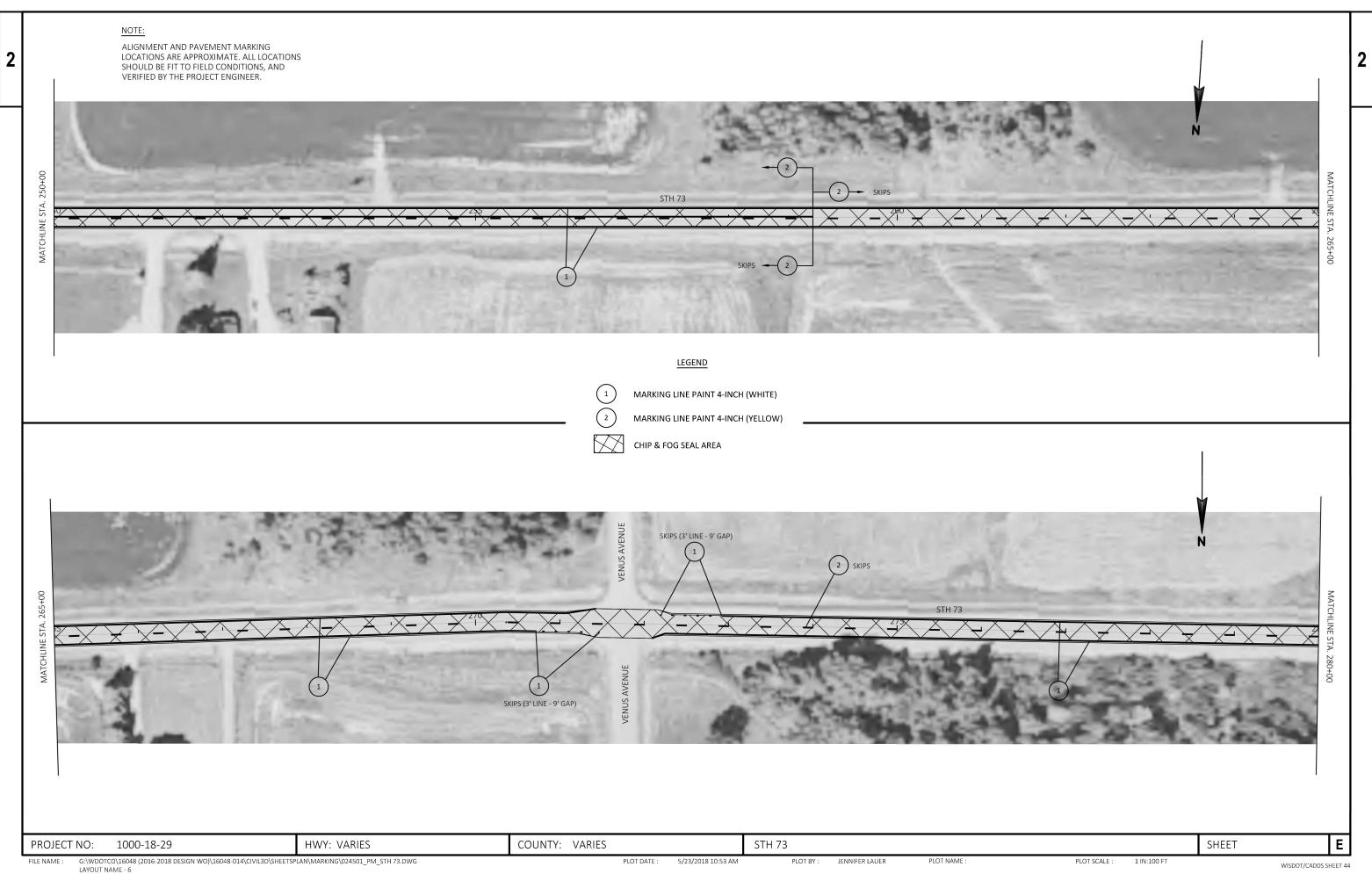


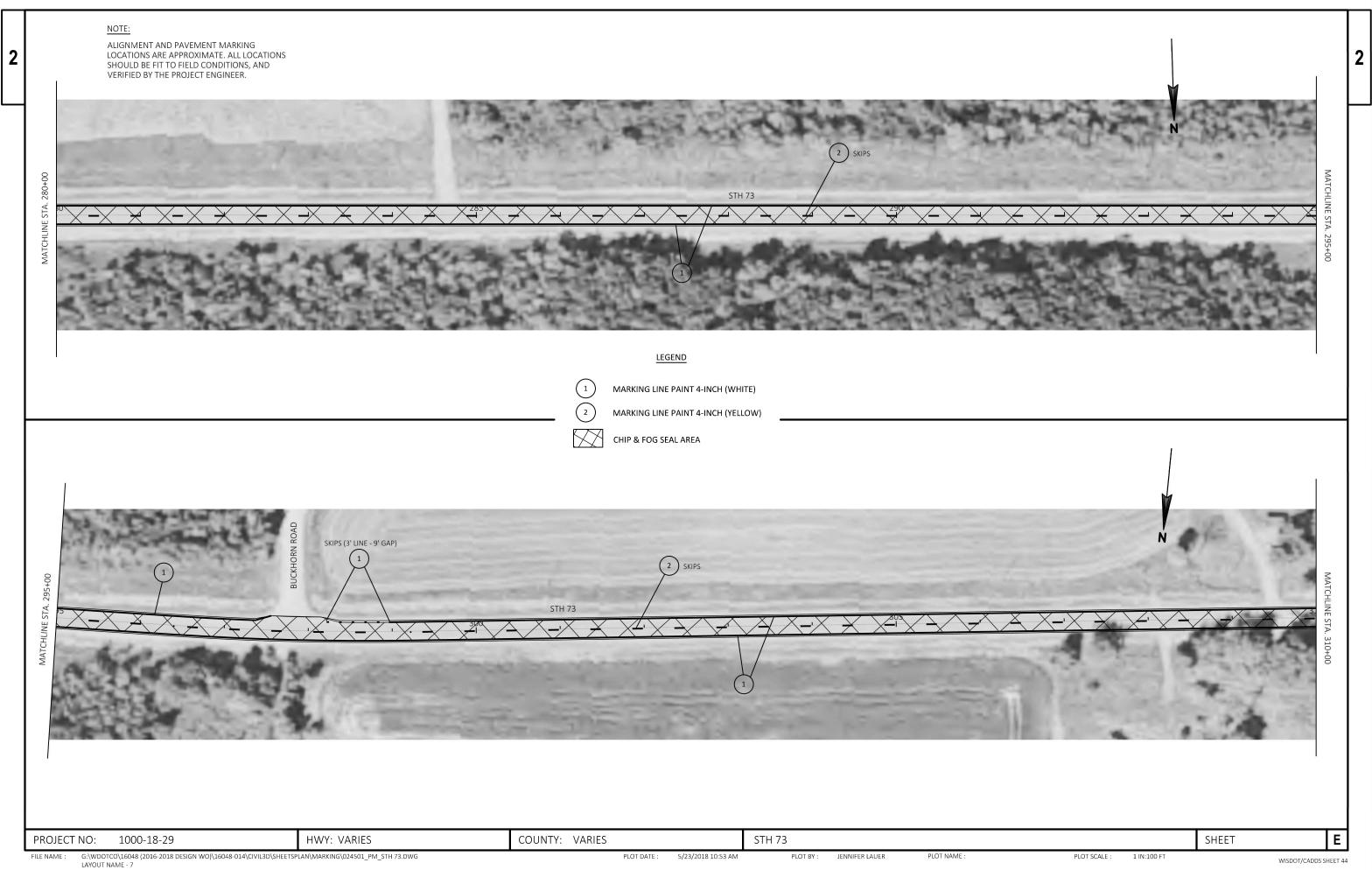


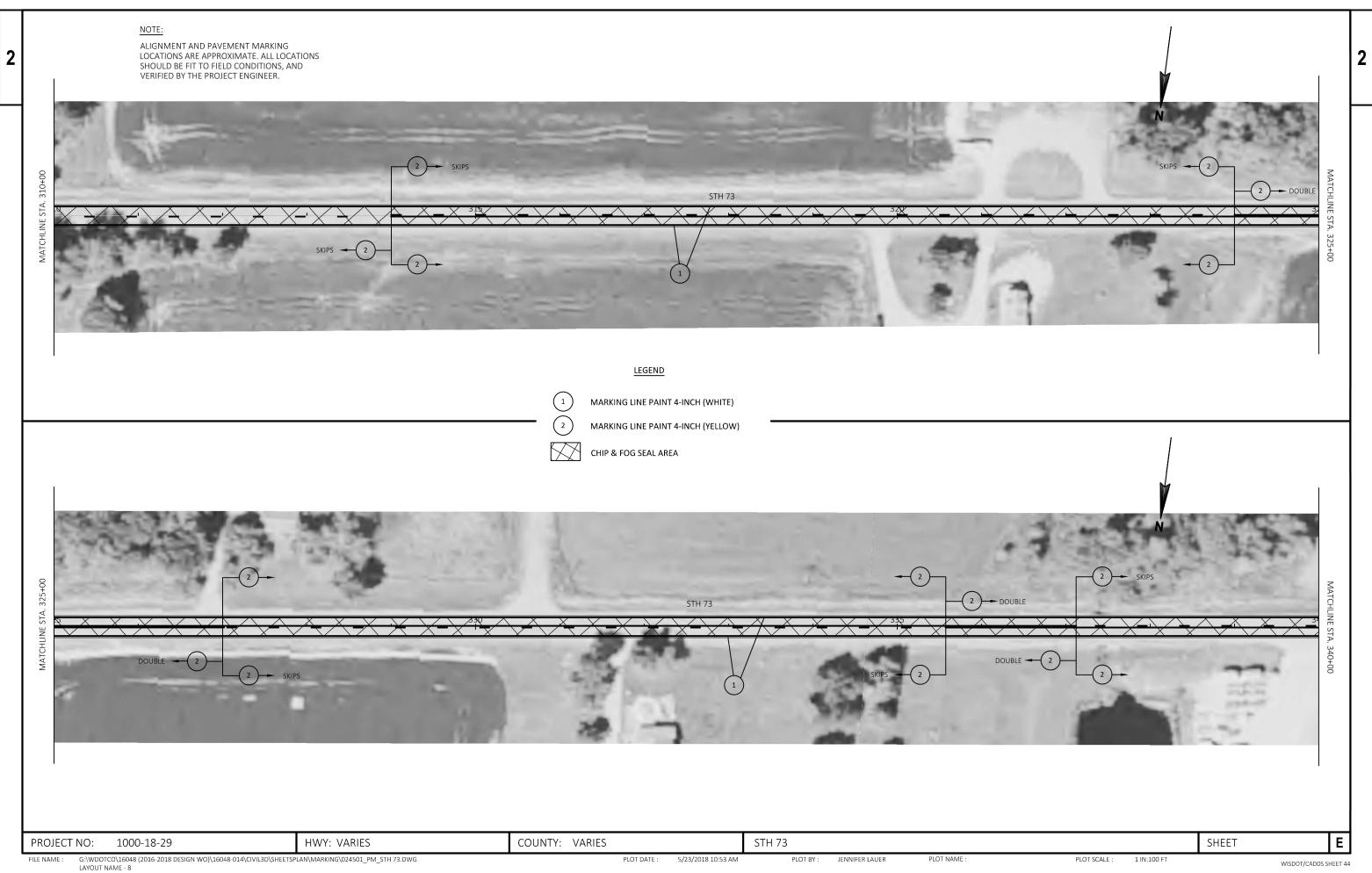






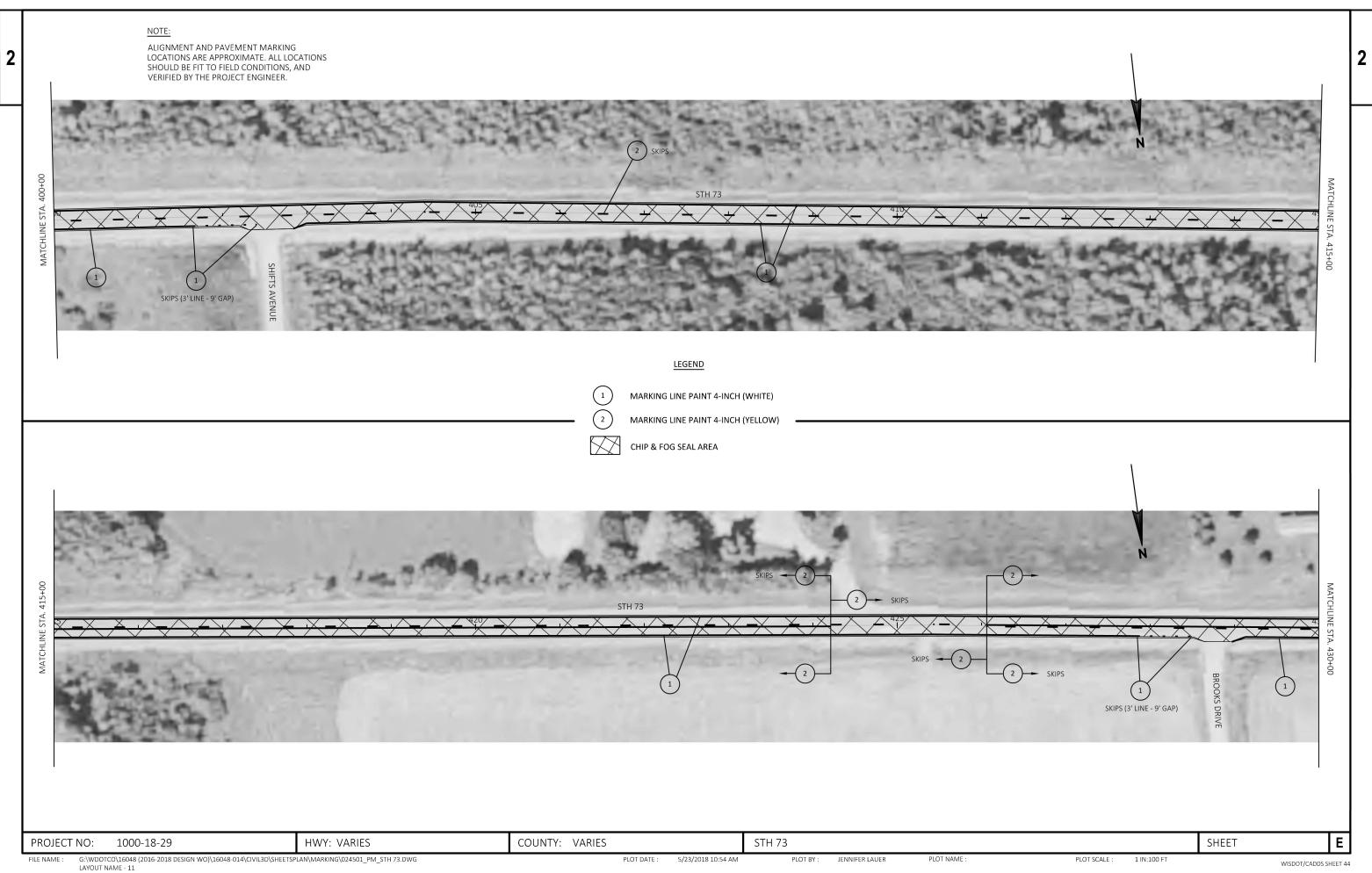


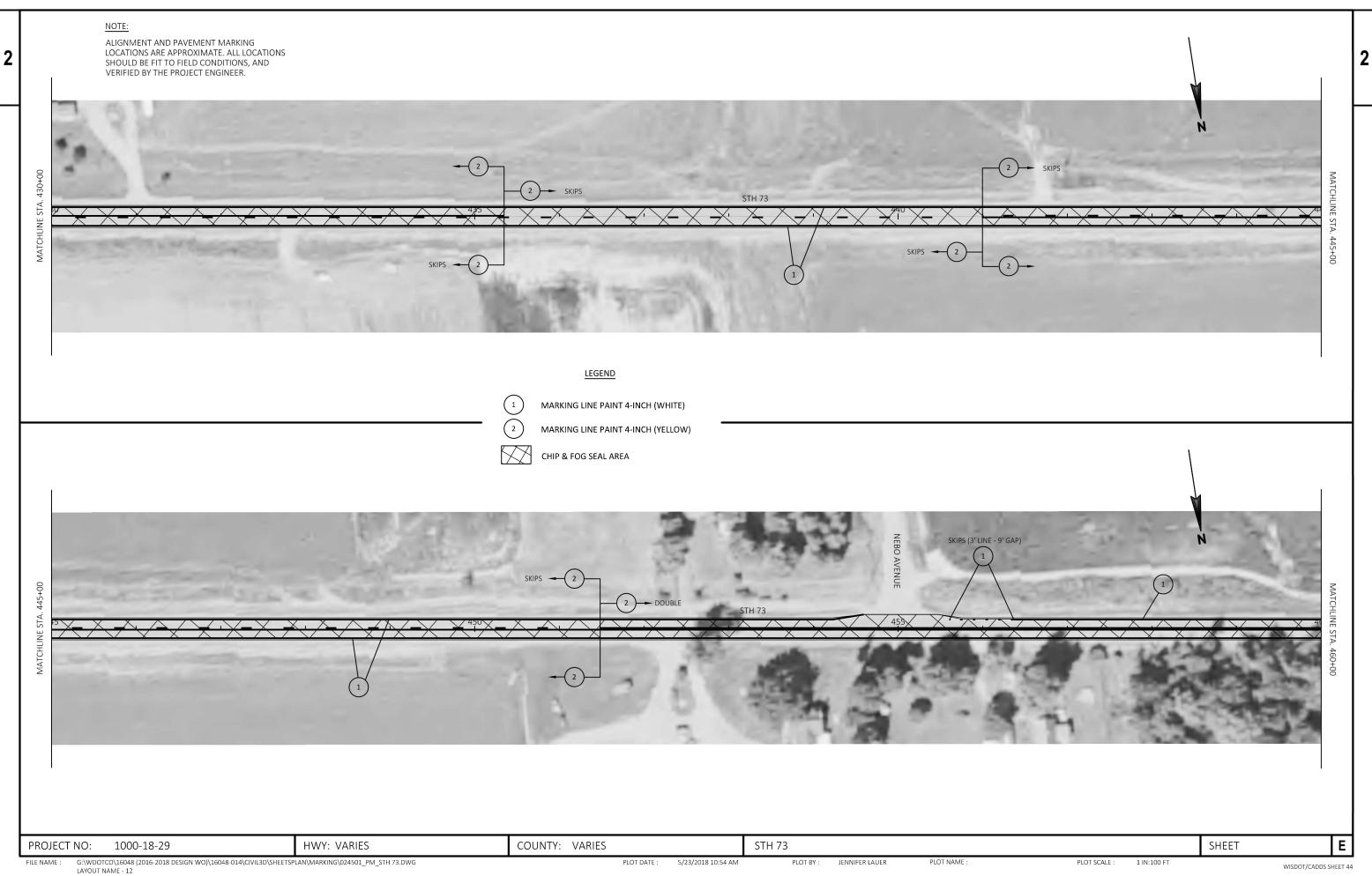


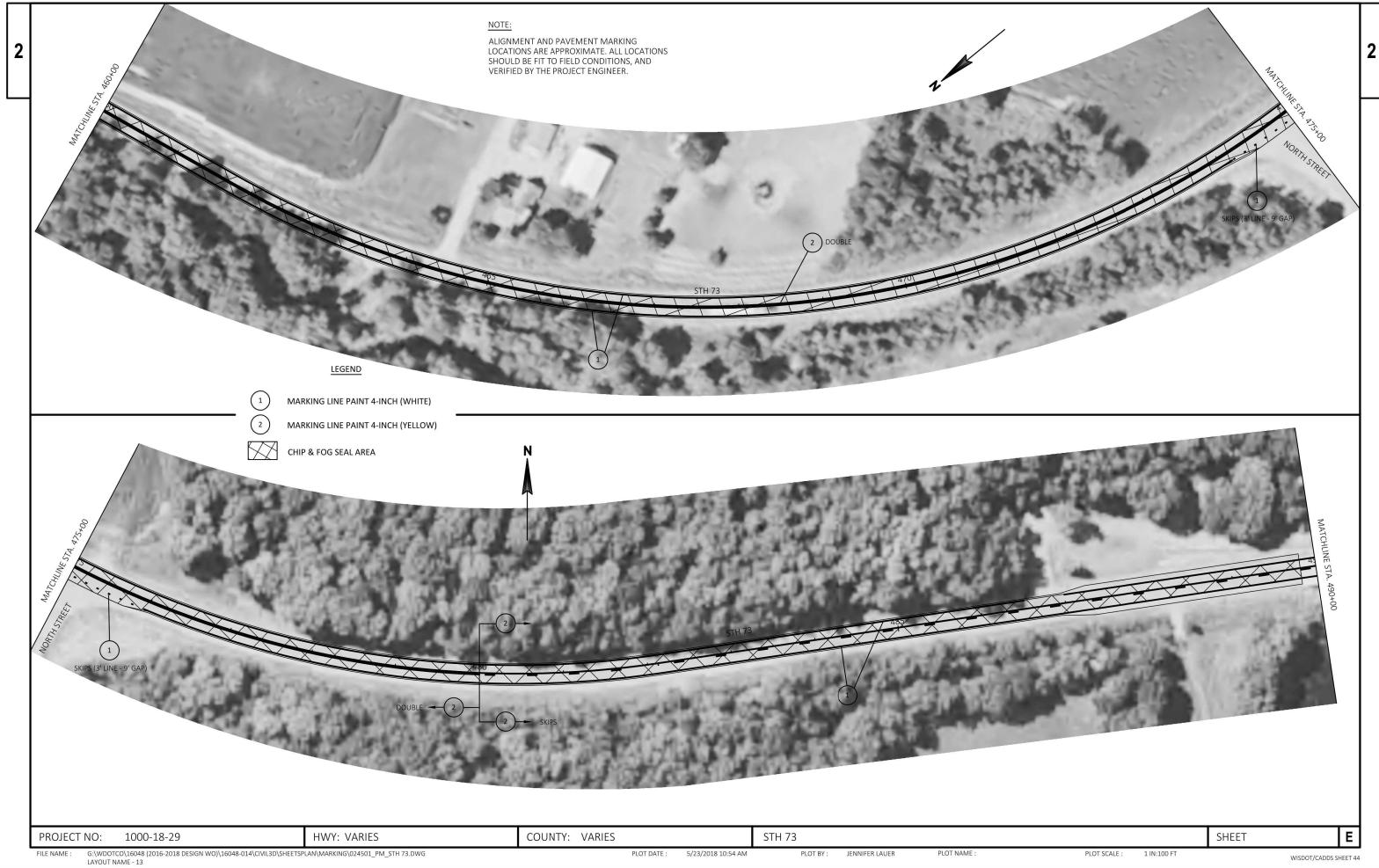


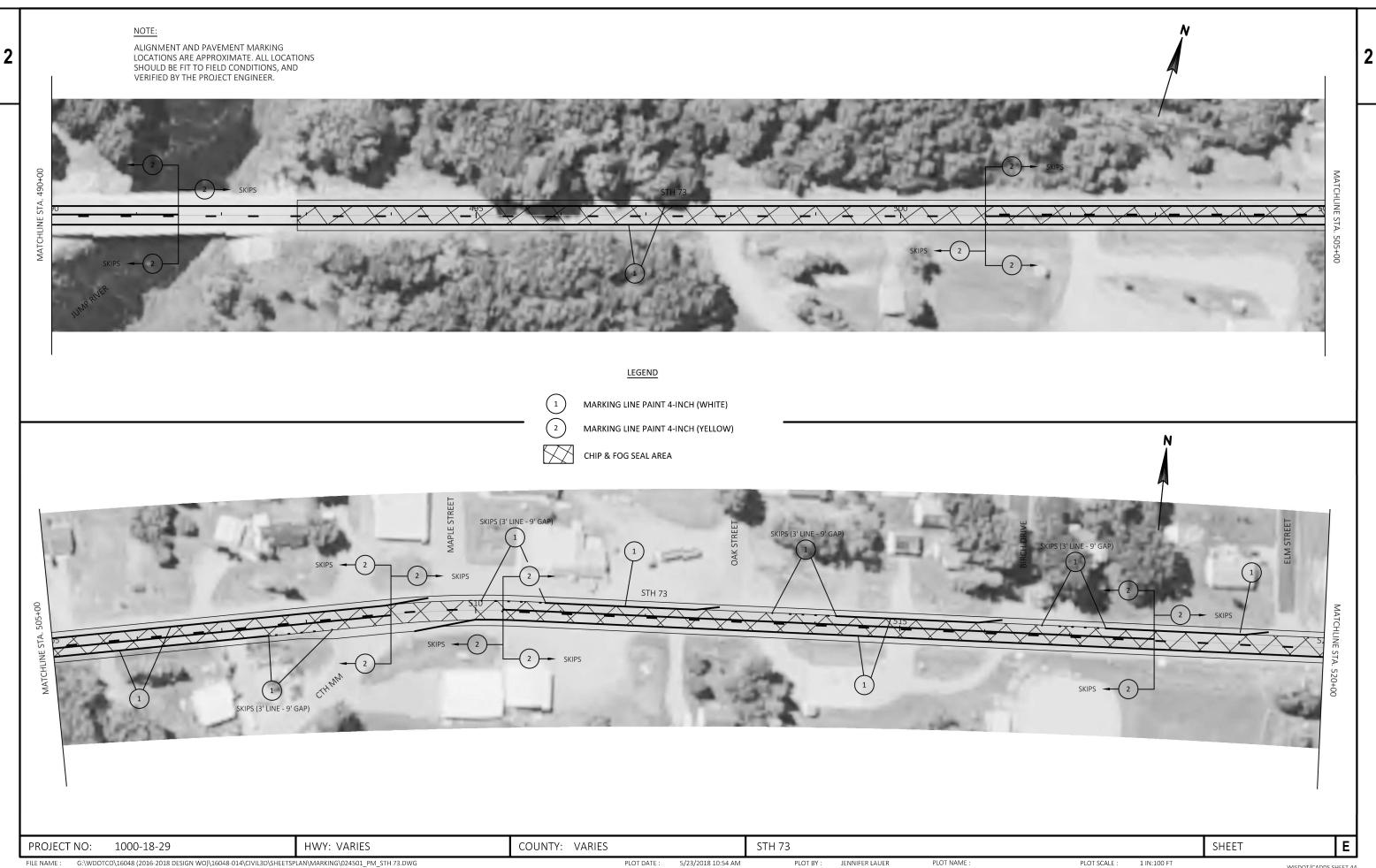


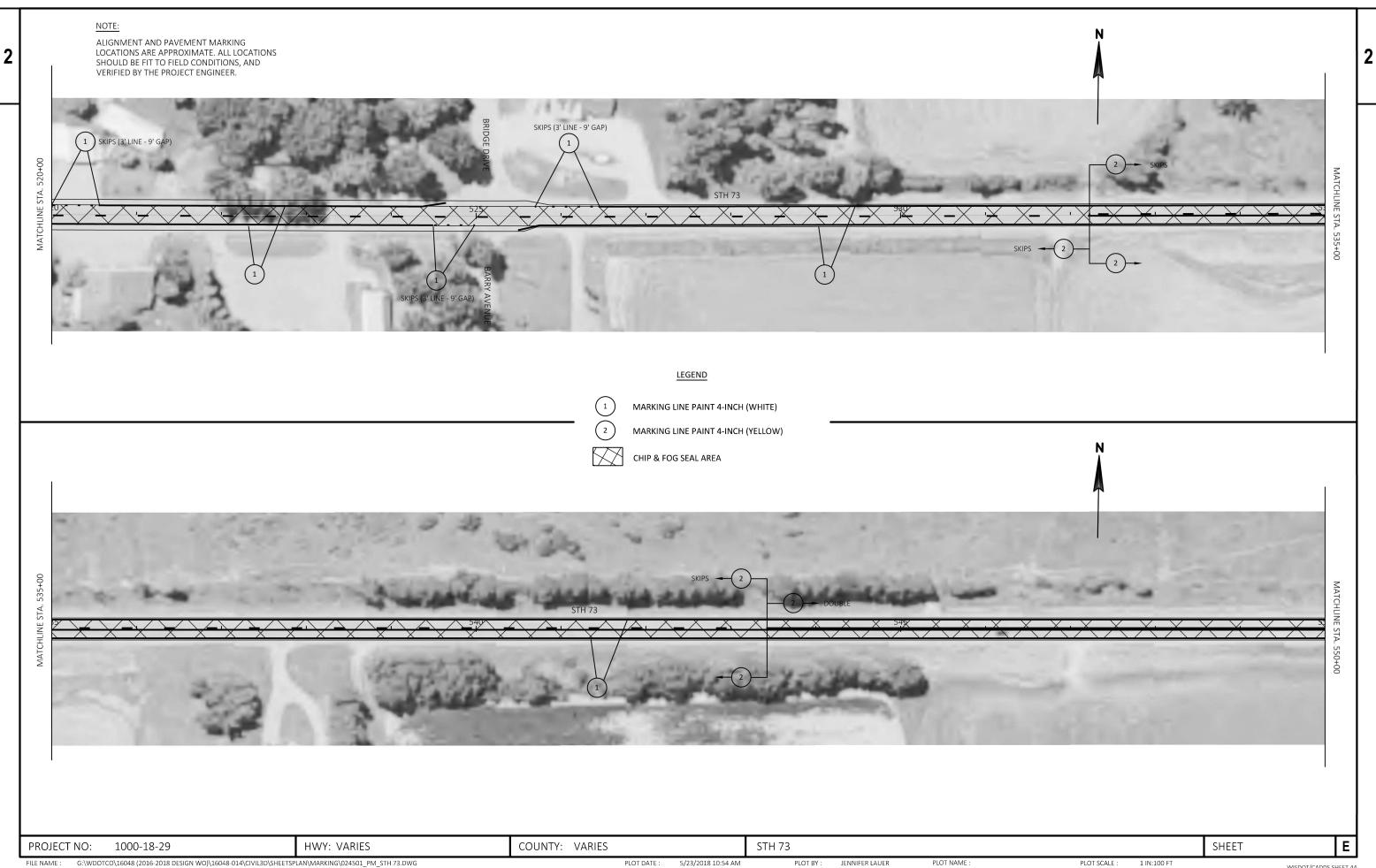


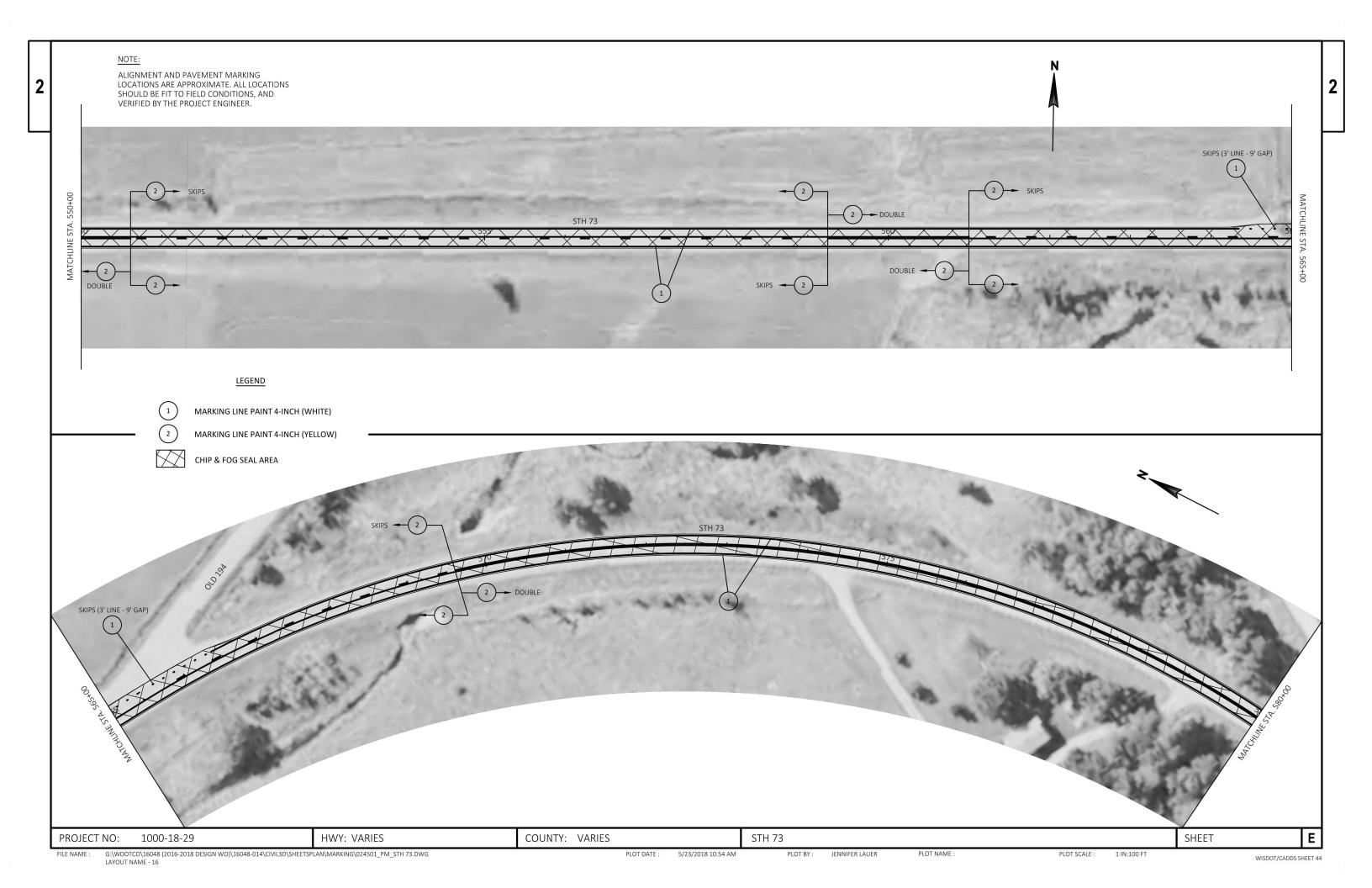


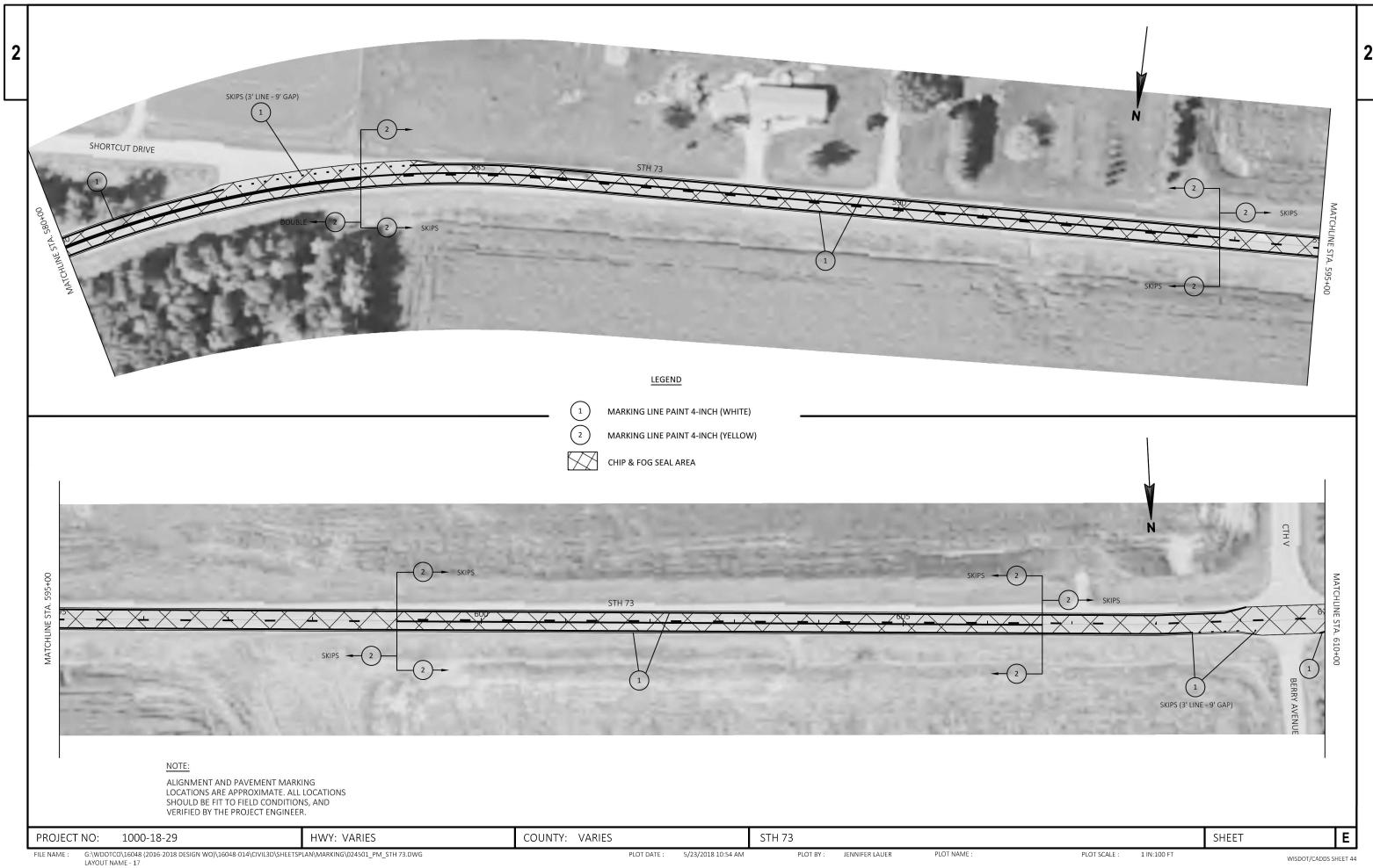


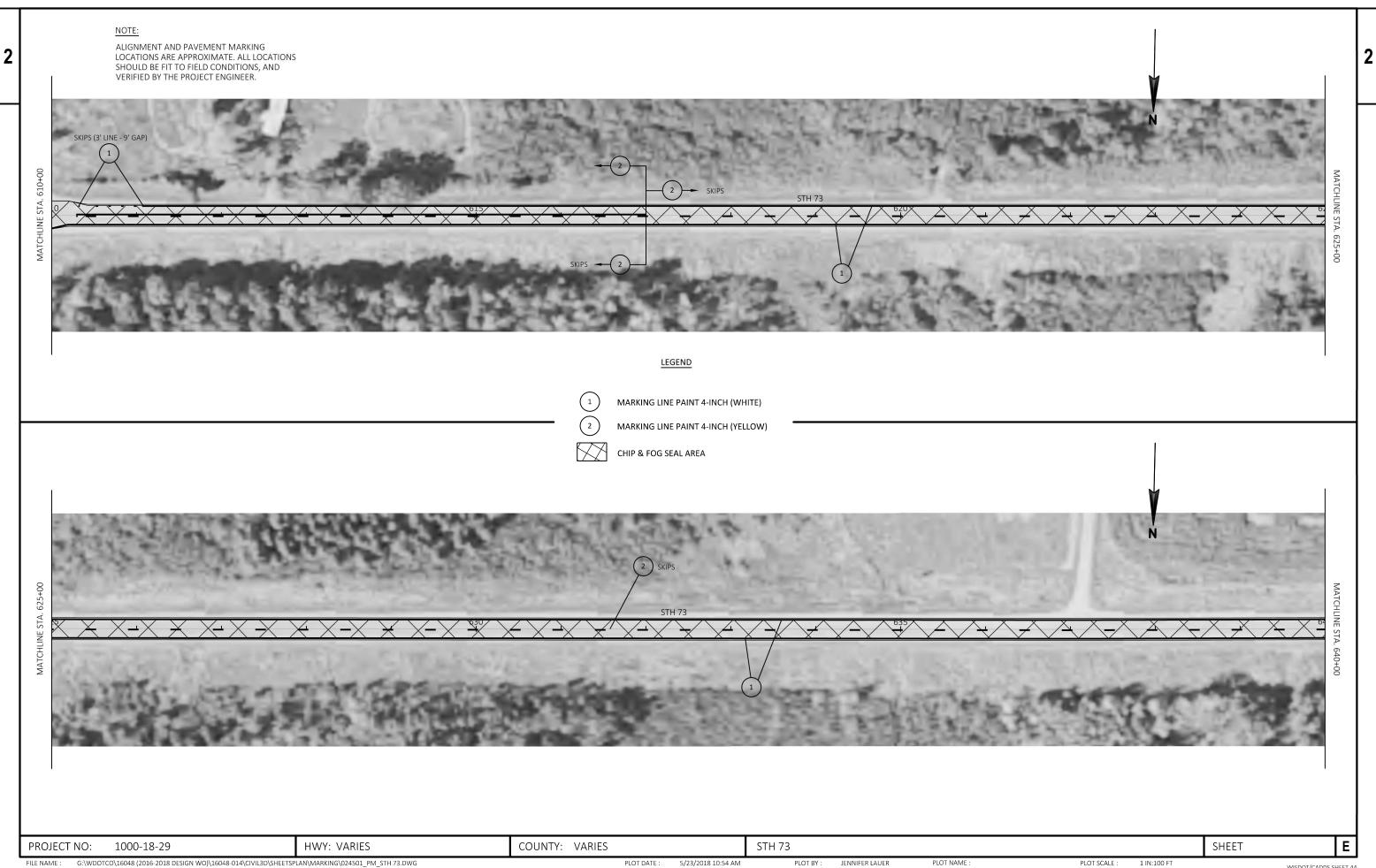






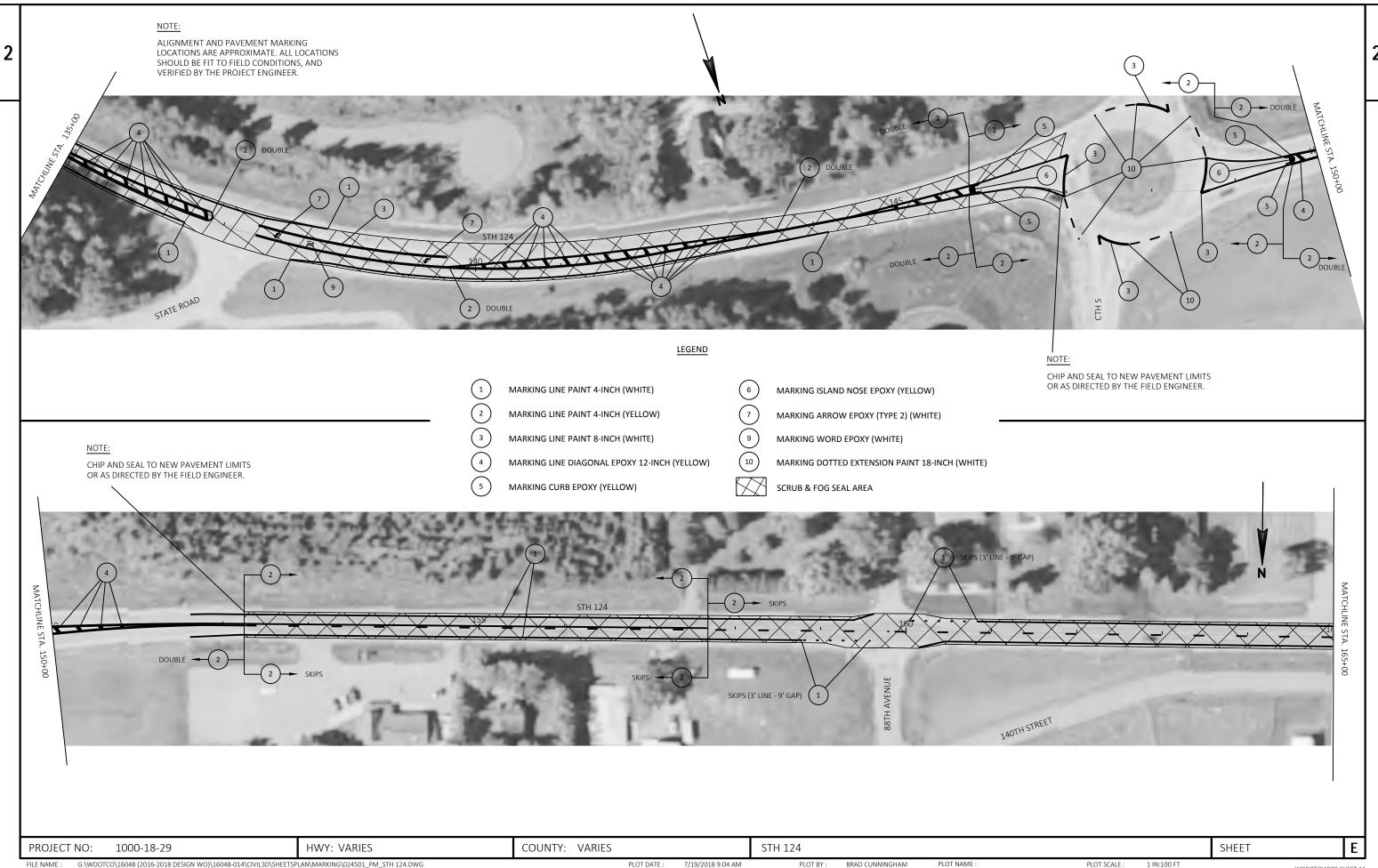






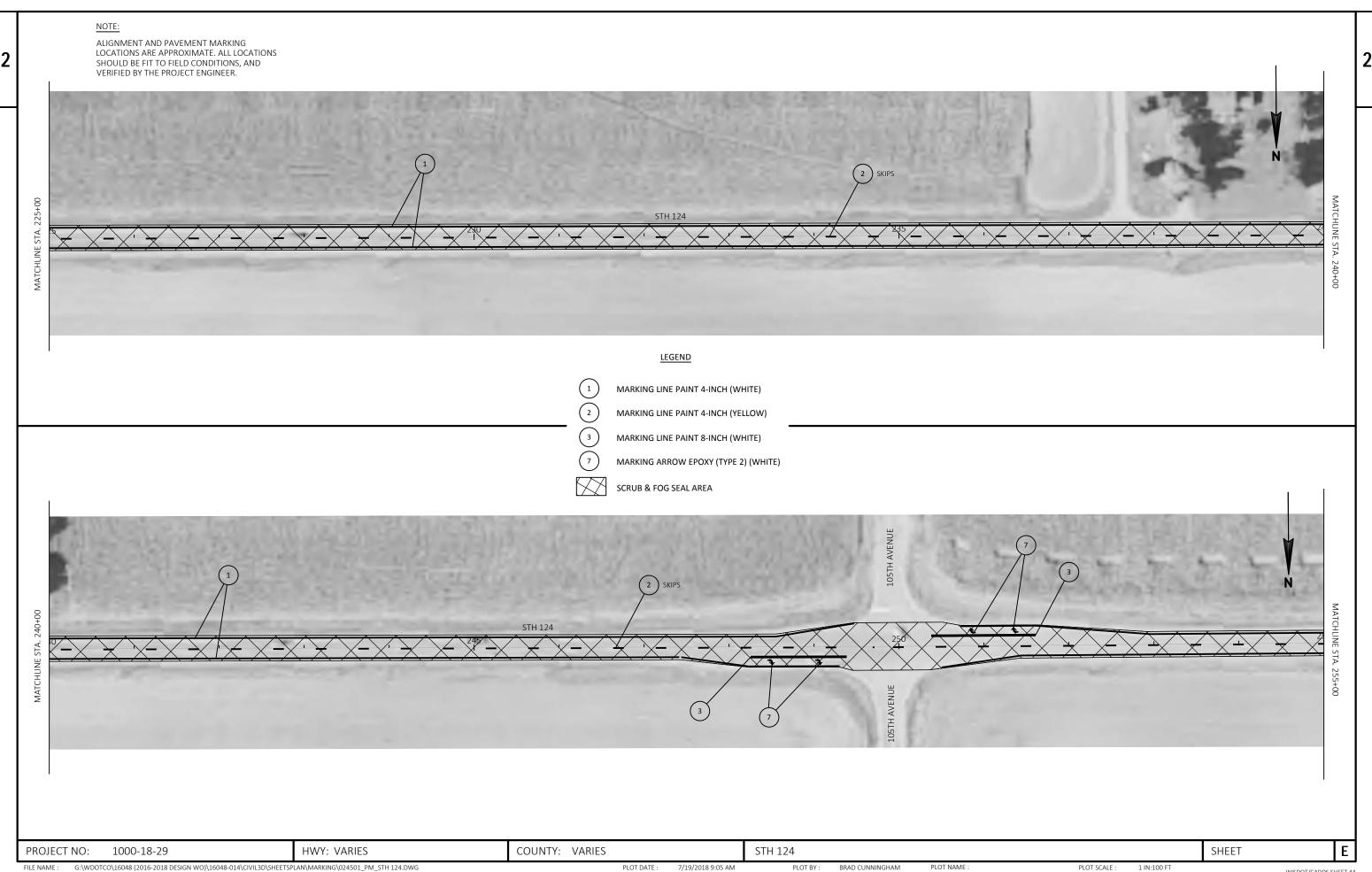


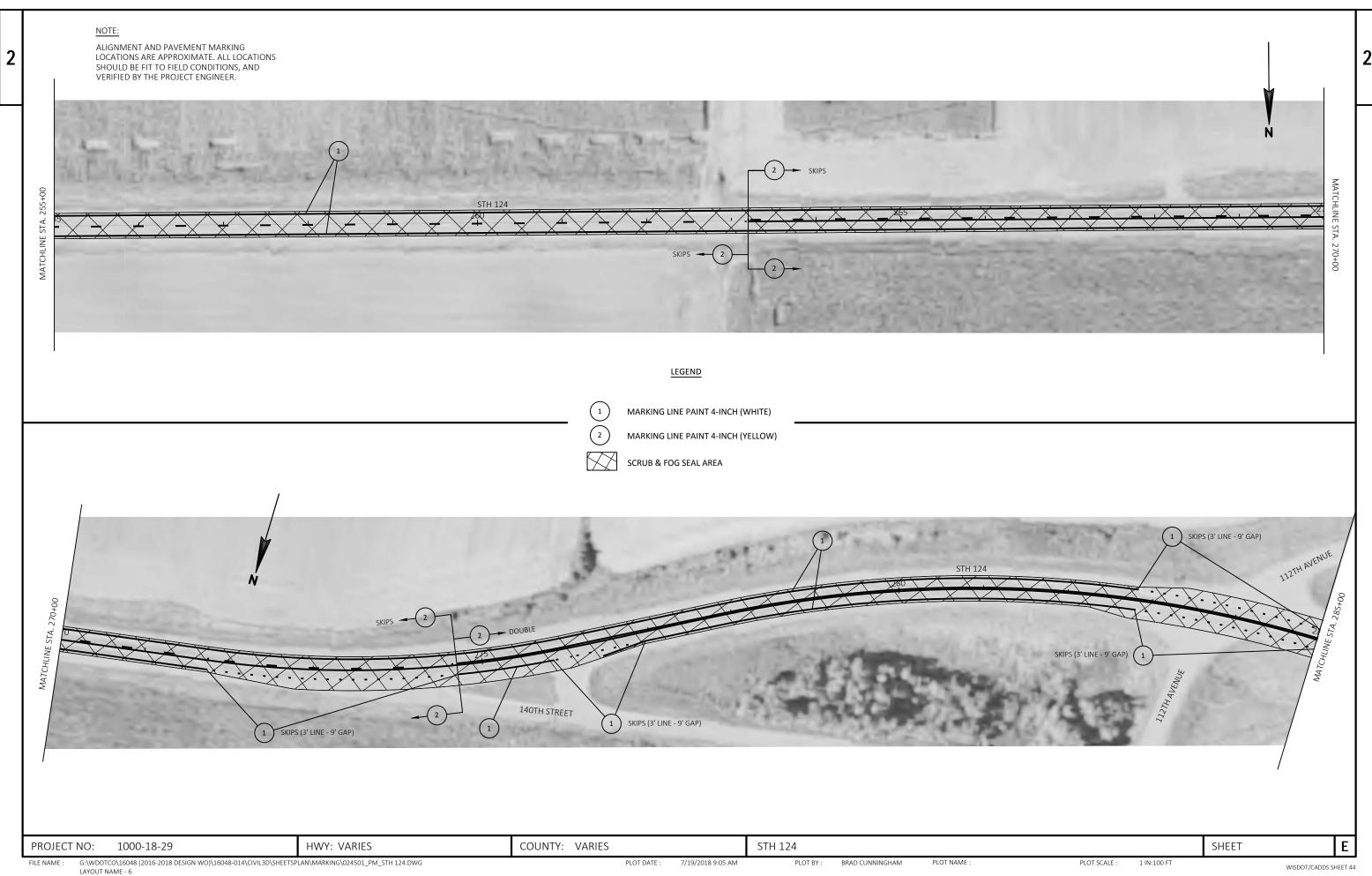


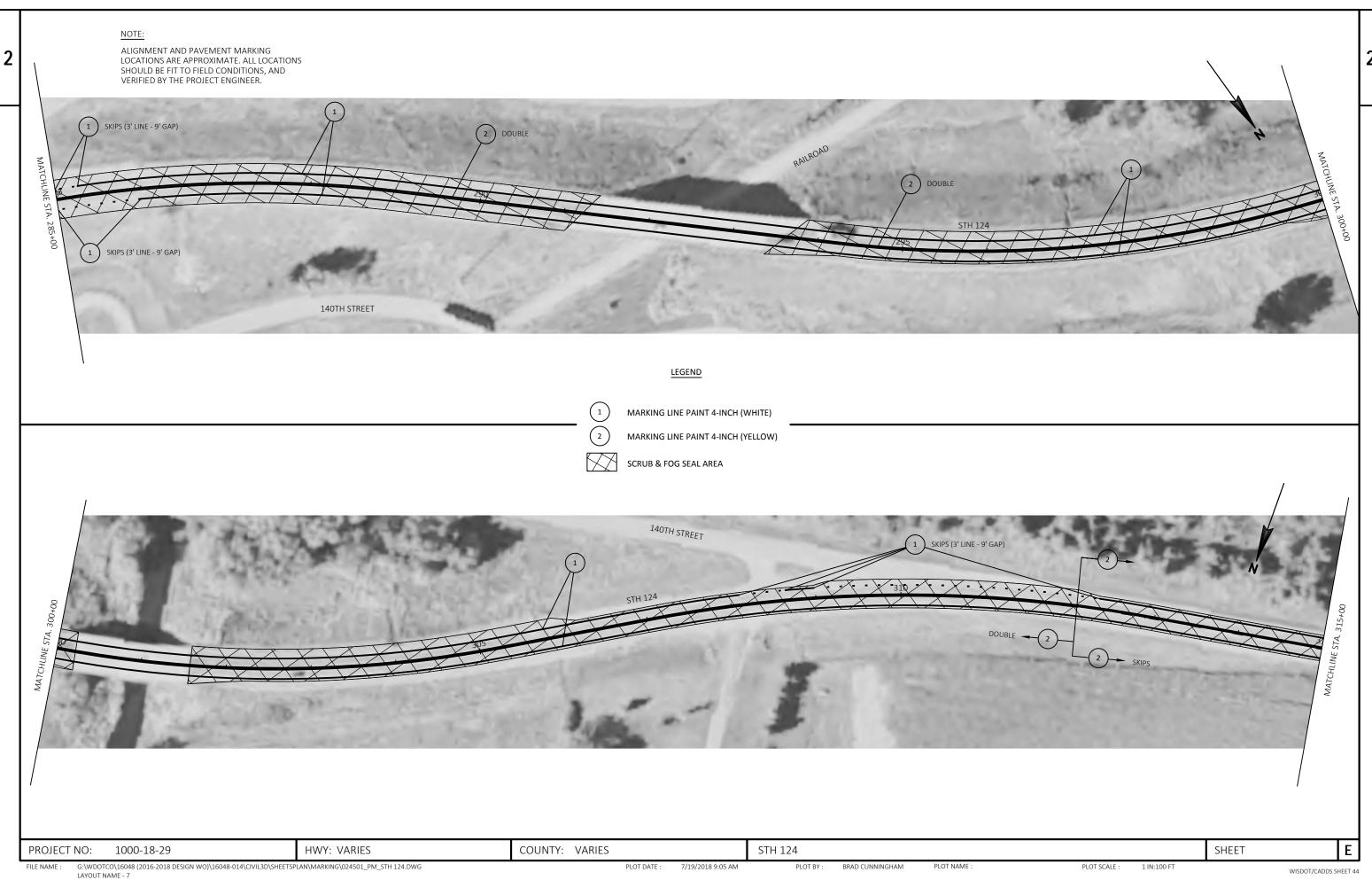


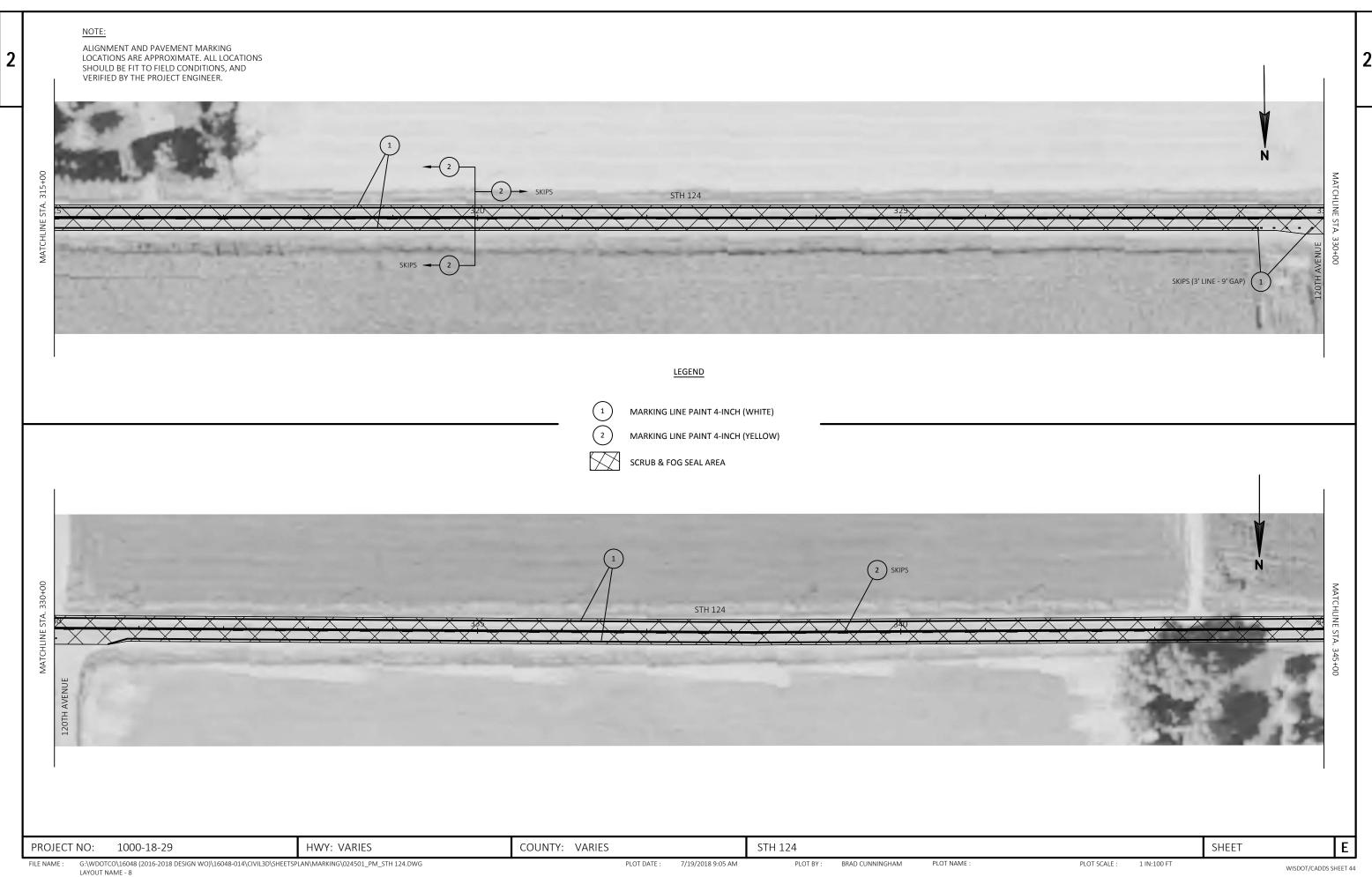


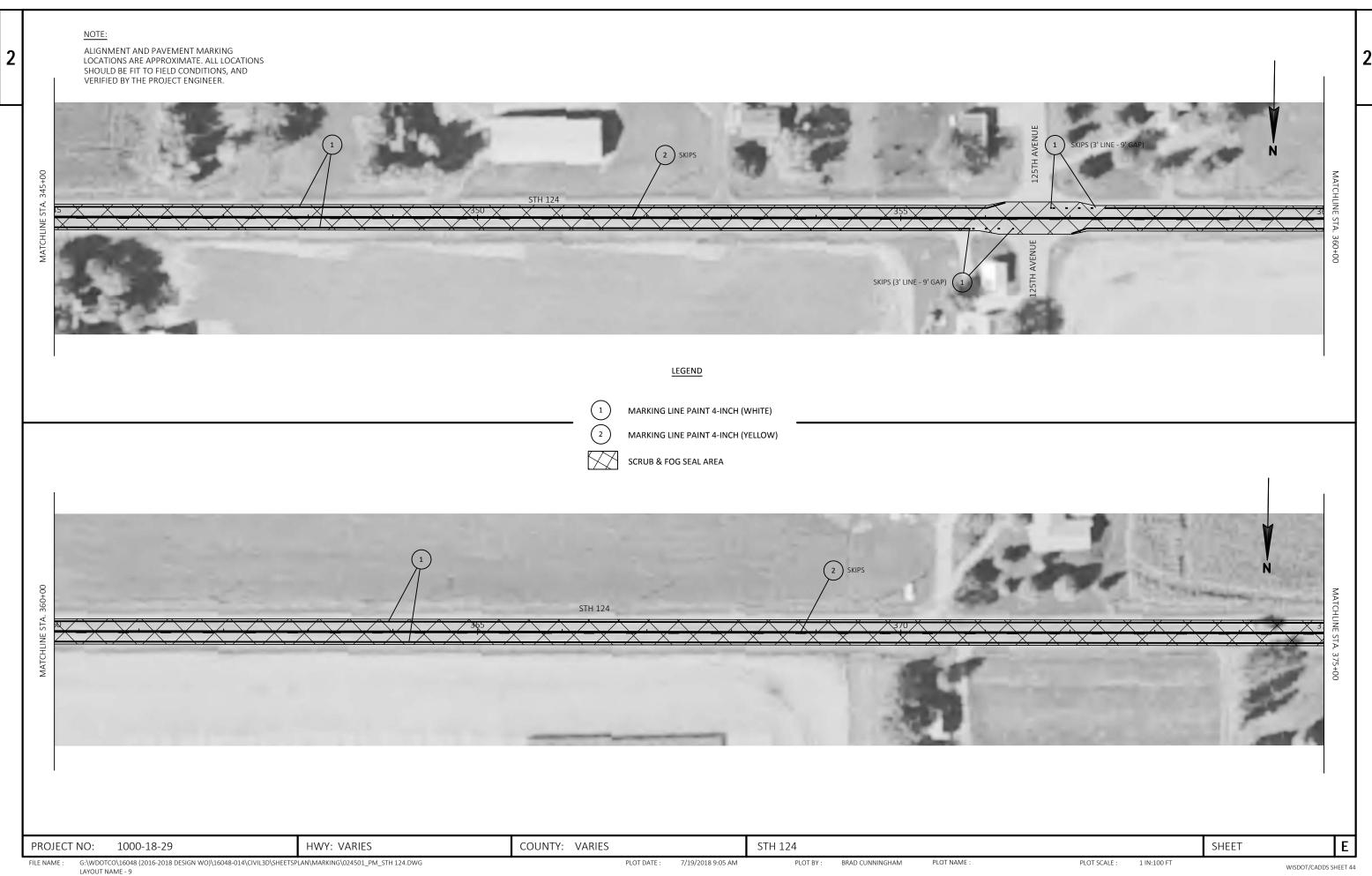




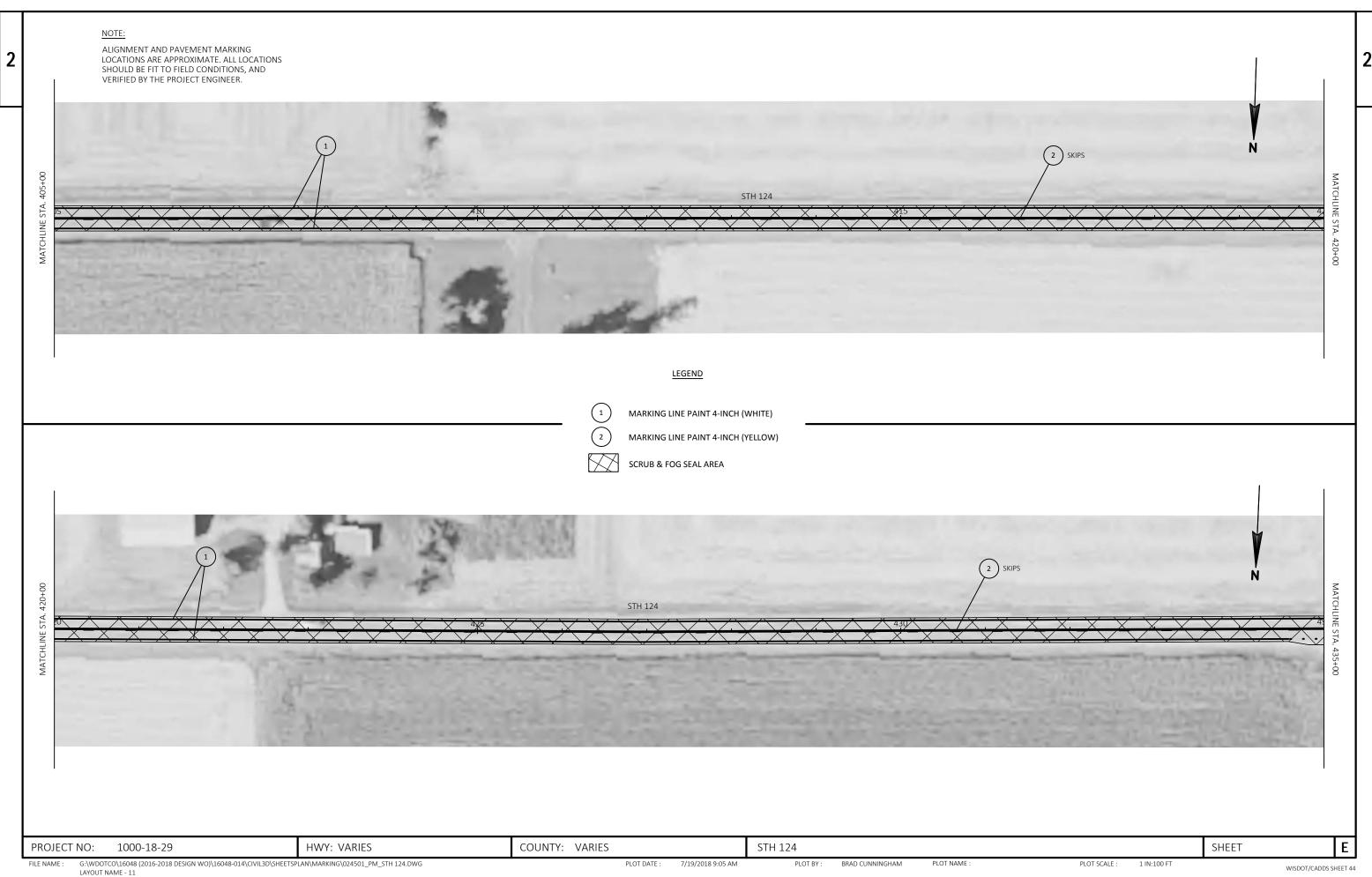


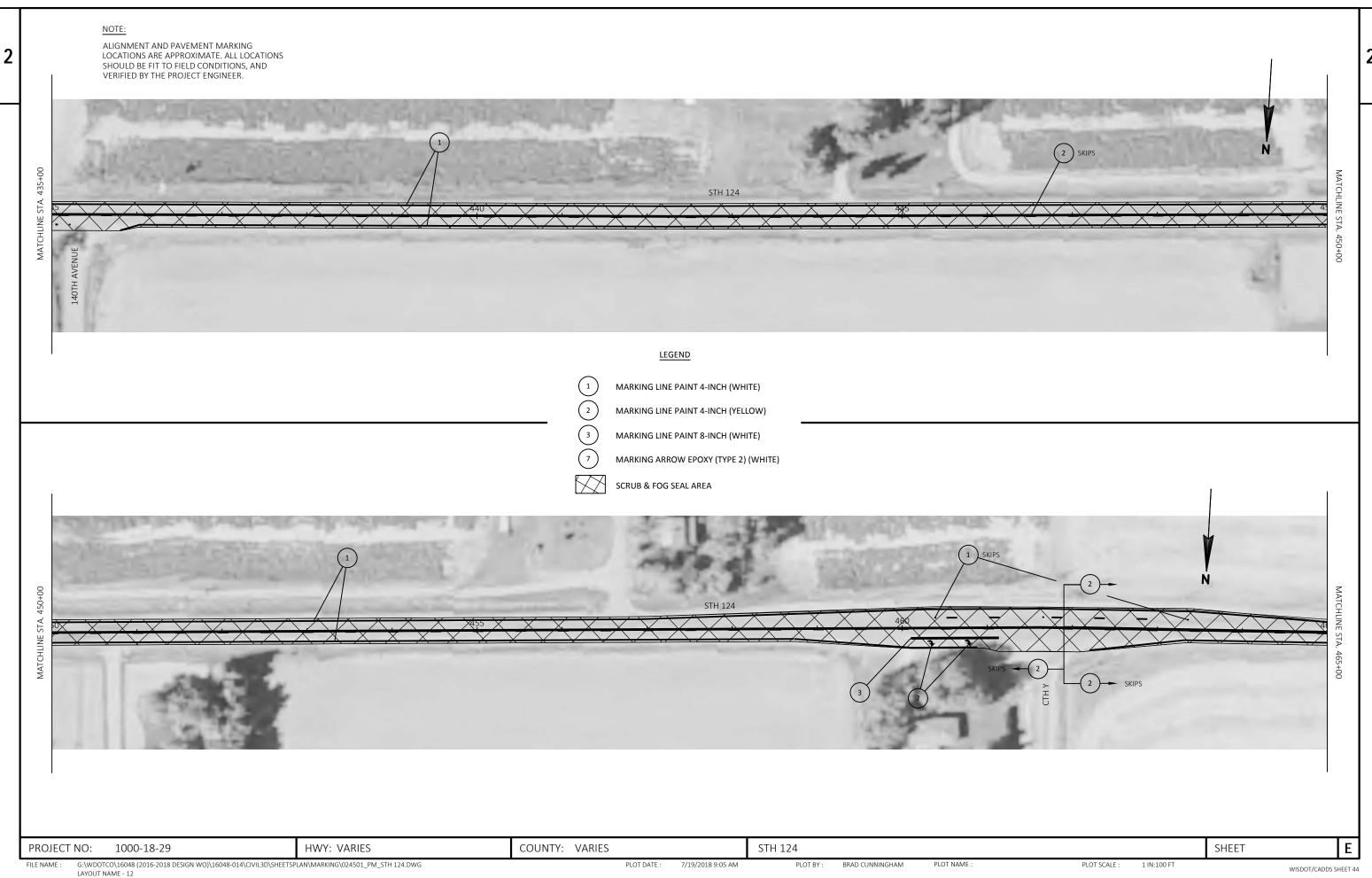


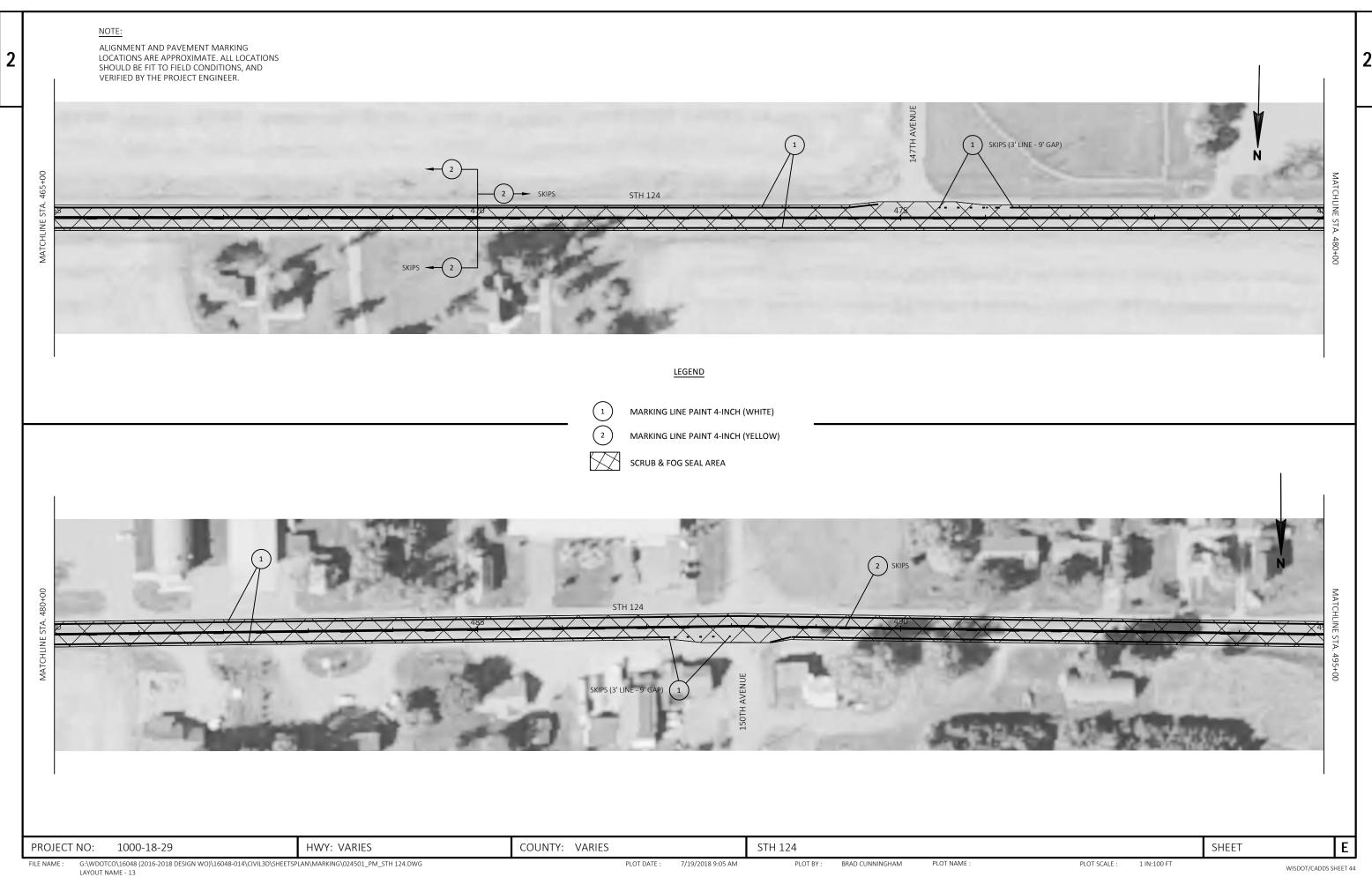


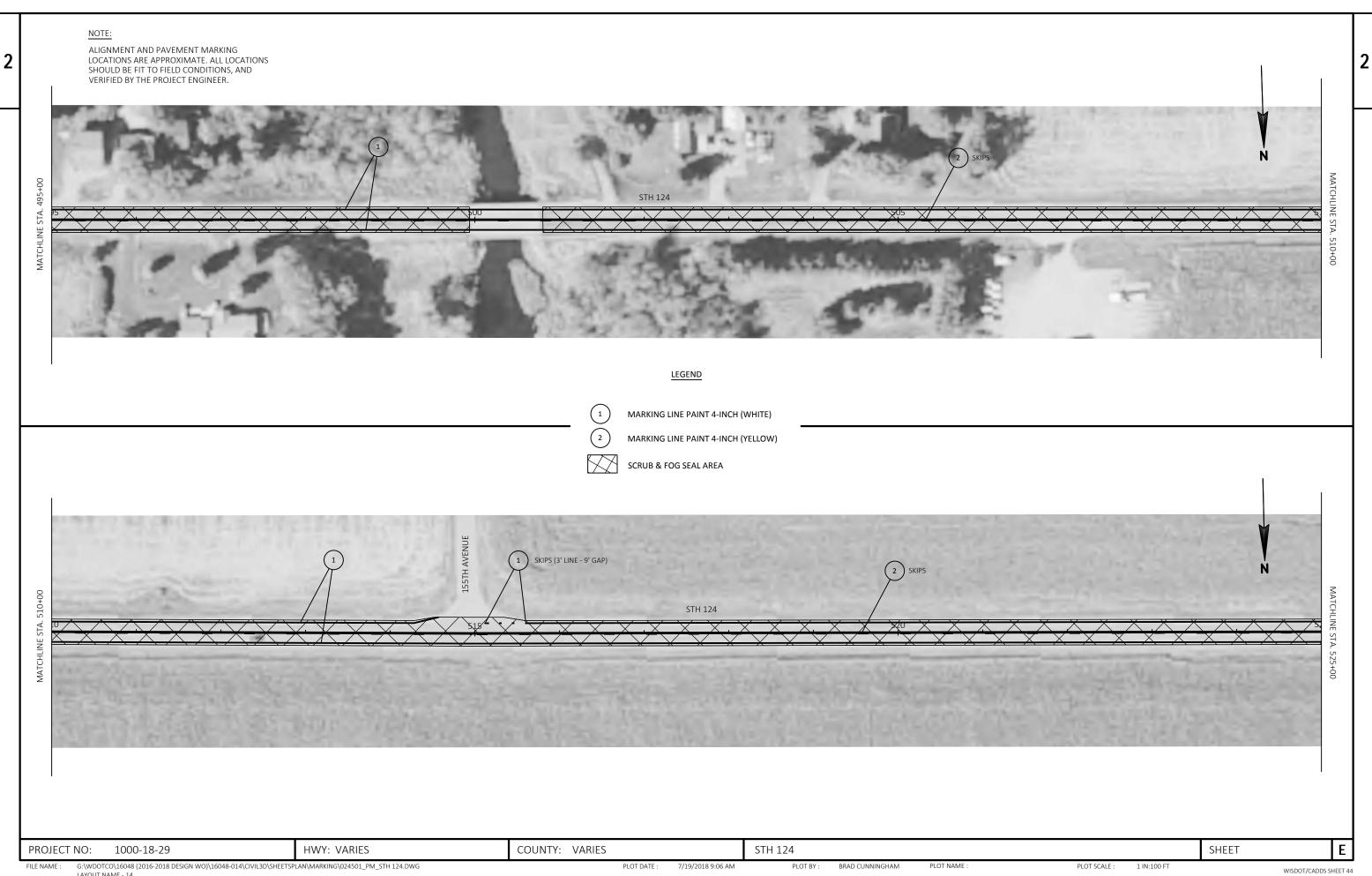


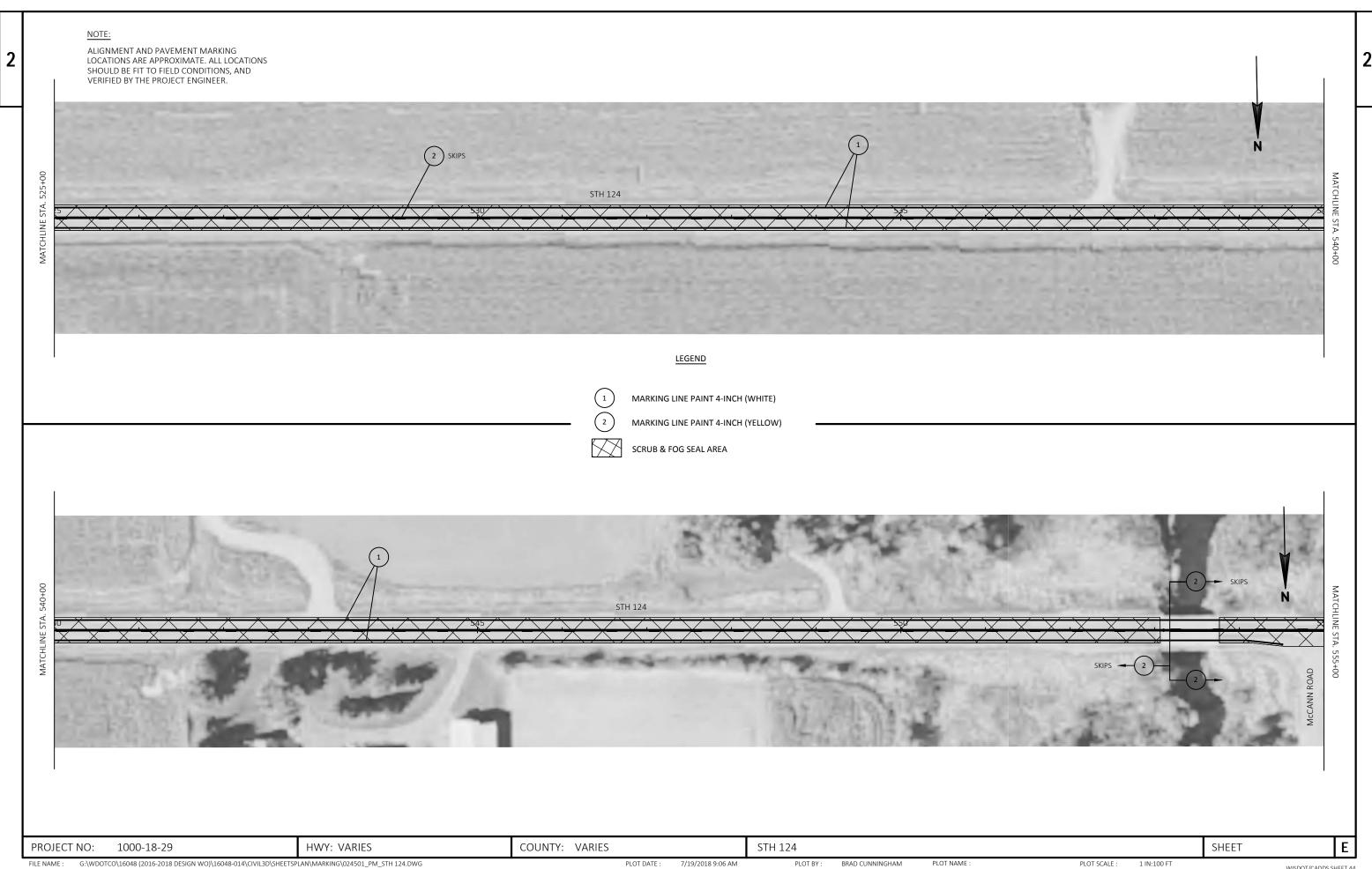


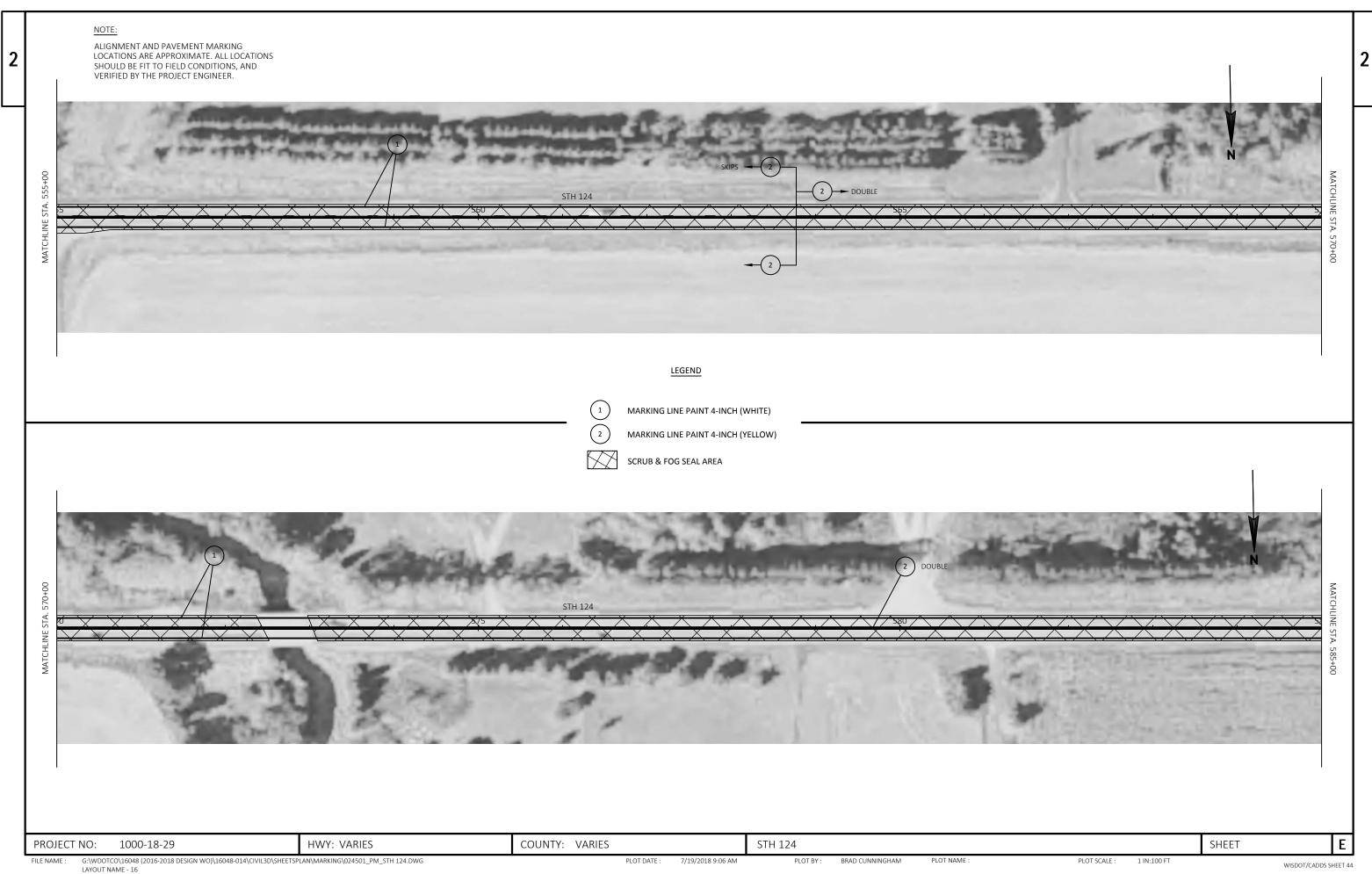


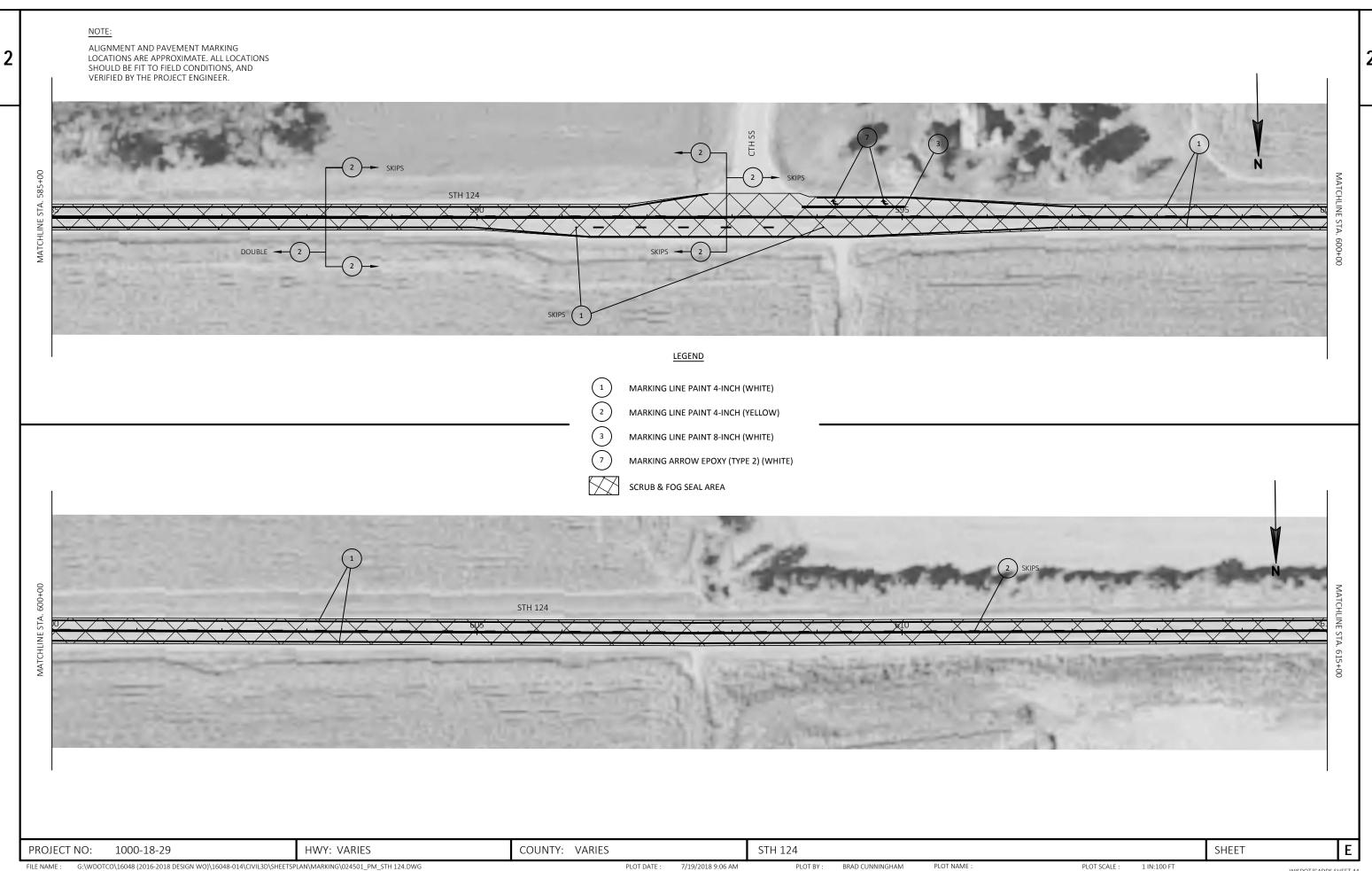


















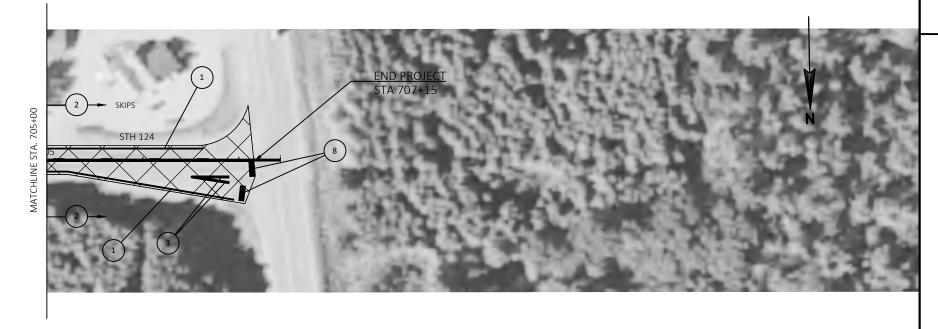
#### NOTE:

ALIGNMENT AND PAVEMENT MARKING LOCATIONS ARE APPROXIMATE. ALL LOCATIONS SHOULD BE FIT TO FIELD CONDITIONS, AND VERIFIED BY THE PROJECT ENGINEER.

# LEGEND

MARKING LINE PAINT 4-INCH (WHITE) MARKING LINE PAINT 4-INCH (YELLOW) MARKING LINE PAINT 8-INCH (WHITE) MARKING STOP LINE EPOXY 18-INCH (WHITE)

SCRUB & FOG SEAL AREA



HWY: VARIES COUNTY: VARIES PROJECT NO: 1000-18-29 STH 124 SHEET

PLOT SCALE :

# **Estimate Of Quantities**

Page 1

					1000-18-29
Line	Item	Item Description	Unit	Total	Qty
0002	213.0100	Finishing Roadway (project) 01. 1000-18-29	EACH	1.000	1.000
0004	618.0100	Maintenance And Repair of Haul Roads (project) 01. 1000-18-29	EACH	1.000	1.000
0006	619.1000	Mobilization	EACH	1.000	1.000
8000	628.7015	Inlet Protection Type C	EACH	4.000	4.000
0010	643.5000	Traffic Control	EACH	1.000	1.000
0012	646.1005	Marking Line Paint 4-Inch	LF	651,000.000	651,000.000
0014	646.3005	Marking Line Paint 8-Inch	LF	2,065.000	2,065.000
0016	646.5020	Marking Arrow Epoxy	EACH	20.000	20.000
0018	646.5120	Marking Word Epoxy	EACH	6.000	6.000
0020	646.6120	Marking Stop Line Epoxy 18-Inch	LF	33.000	33.000
0022	646.6305	Marking Dotted Extension Paint 18-Inch	LF	93.000	93.000
0024	646.7120	Marking Diagonal Epoxy 12-Inch	LF	457.000	457.000
0026	646.8120	Marking Curb Epoxy	LF	20.000	20.000
0028	646.8220	Marking Island Nose Epoxy	EACH	2.000	2.000
0030	649.0105	Temporary Marking Line Paint 4-Inch	LF	177,000.000	177,000.000
0032	649.0770	Temporary Marking Raised Pavement Marker Type II	EACH	5,000.000	5,000.000
0034	SPV.0180	Special 01. Chip Seal	SY	297,500.000	297,500.000
0036	SPV.0180	Special 02. Scrub Seal	SY	414,500.000	414,500.000
0038	SPV.0180	Special 03. Fog Seal	SY	762,500.000	762,500.000

PAVEMENT	MARKING
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					646.1005	646.1005	646.3005	
					MARKING	MARKING	MARKING	
					LINE	LINE	LINE	
					PAINT	PAINT	PAINT	
					4-INCH	4-INCH	8-INCH	
					(YELLOW)	(WHITE)	(WHITE)	
CAT	STATION	TO	STATION	LOCATION	LF	LF	LF	REMARKS
0010	102+00	-	390+00	STH 27 (CO LINE - STH 29)	19,000	57,000		
				SUBTOTAL CAT 0010	76,0	00	-	_
0020	104+50		642+00	USH 10 (CO LINE - USH 12)	21,000	105,500	770	
				SUBTOTAL CAT 0020	126,5	600	770	=
0030	106+75		537+74	STH 121 (IH 94 - STH 95)	43,000	85,000	185	
				SUBTOTAL CAT 0030	128,0	000	185	=
0040	106+00		665+00	STH 73 ( CTH M - CO LINE)	51,000	110,000		
				SUBTOTAL CAT 0040	161,0	000	-	=
0050	103+30		707+15	STH 124 (7TH AVE - STH 64)	43,000	116,500	1,110	
1130				SUBTOTAL CAT 0040	159,5	· · · · · · · · · · · · · · · · · · ·	1,110	=
				GRAND TOTAL	651,0	000	2,065	

#### TEMPORARY MARKING LINE PAINT 4-INCH

					649.0105 (YELLOW)	
CAT	STATION	TO	STATION	LOCATION	LF	REMARKS
0010	102+00	-	390+00	STH 27 (CO LINE - STH 29)	19,000	CENTERLINE
0020	104+50	-	642+00	USH 10 (CO LINE - USH 12)	21,000	CENTERLINE
0030	106+75	-	537+74	STH 121 (IH 94 - STH 95)	43,000	CENTERLINE
0040	106+00	-	665+00	STH 73 ( CTH M - CO LINE)	51,000	CENTERLINE
0050	103+30	-	707+15	STH 124 (7TH AVE - STH 64)	43,000	CENTERLINE
				TOTAL	177,000	

#### TEMPORARY RAISED PAVEMENT MARKERS, TYPE II

					649.0770	
CAT	STATION	TO	STATION	LOCATION	EACH	REMARKS
0010	102+00	-	390+00	STH 27 (CO LINE - STH 29)	600	
0020	104+50	-	642+00	USH 10 (CO LINE - USH 12)	1,100	
0030	106+75	-	537+74	STH 121 (IH 94 - STH 95)	900	
0040	106+00	-	665+00	STH 73 ( CTH M - CO LINE)	1,200	
0050	103+30	-	707+15	STH 124 (7TH AVE - STH 64)	1,200	
				TOTAL	5,000	

# INLET PROTECTION TYPE C

		628.7015	
CAT	LOCATION	EACH	REMARKS
0010	STH 27 (CO LINE - STH 29)		
0020	USH 10 (CO LINE - USH 12)		
0030	STH 121 (IH 94 - STH 95)		
0040	STH 73 ( CTH M - CO LINE)		
0050	STH 124 (7TH AVE - STH 64)	4	
	TOTAL	4	

# CHIP/SCRUB/FOG SEAL

					SPV.0180.01 CHIP SEAL	SPV.0180.02 SCRUB SEAL	SPV.0180.03 FOG SEAL	
CAT	STATION	TO	STATION	LOCATION	SY	SY	SY	REMARKS
0010	102+00	-	390+00	STH 27 (CO LINE - STH 29)		98,500	98,500	
0020	104+50	-	642+00	USH 10 (CO LINE - USH 12)	154,000		182,500	
0030	106+75	-	537+74	STH 121 (IH 94 - STH 95)		108,000	108,000	
0040	106+00	-	665+00	STH 73 ( CTH M - CO LINE)	143,500		165,500	
0050	103+30	-	707+15	STH 124 (7TH AVE - STH 64)		208,000	208,000	·
				TOTAL	297,500	414,500	762,500	

PROJECT NO: 1000-18-29 HWY: VARIOUS COUNTY: VARIOUS PLOT DATE : 7/19/2018 MISCELLANEOUS QUANTITIES

SHEET

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PLOT BY : KL ENGINEERING PLOT NAME : \_\_\_\_\_PLOT SCALE : 1:1.185

# MARKING SUMMARY (SPECIAL MARKINGS)

CAT	ITEM NUMBER	BID ITEM DESCRIPTION	UNIT	TOTALS
0010	646.7120	MARKING DIAGONAL EPOXY 12-INCH	L.F.	47
0020	646.5020	MARKING ARROW EPOXY "TYPE 2"	EACH	8
0020	646.5120	MARKING EPOXY WORDS "ONLY"	EACH	4
0030	646.5020	MARKING ARROW EPOXY "TYPE 2"	EACH	2
0030	646.5120	MARKING EPOXY WORDS "ONLY"	EACH	1
0050	646.5020	MARKING ARROW EPOXY "TYPE 2"	EACH	10
0050	646.5120	MARKING WORDS EPOXY	EACH	1
0050	646.6120	MARKING STOP LINE EPOXY 18-INCH	L.F.	33
0050	646.6305	MARKING DOTTED EXTENSION PAINT 18-INCH	L.F.	93
0050	646.7120	MARKING DIAGONAL EPOXY 12-INCH	L.F.	410
0050	646.8120	MARKING CURB EPOXY	L.F.	20
0050	646.8220	MARKING ISLAND NOSE EPOXY	EACH	2

## MARKING (SPECIAL MARKING)

			WARRING (SPECIAL WARRING)						
COUNTY	CHIPPEWA								
MAP REFERENCE	CHIPPEWA 05C								
CAT	0010								
MAP REFERENCE HWY	STH 27								
MAP REFERENCE SITE ID	STH 29 - CADOTT - EXIT 91				STH 27	STH 27	STH 29	STH 29	TOTAL
BID ITEM #	DESCRIPTION	SMCODE	MARKING LOCATION	UNIT	NB	SB	EB	WB	QUANTITY
646.7120	MARKING DIAGONAL EPOXY 12-INCH	SM-DIAGONAL-YELLOW	MEDIAN ISLAND	L.F.	47				47
COUNTY	JACKSON								
CAT	0020								
MAP REFERENCE HWY	USH 10								
MAP REFERENCE SITE ID	CTH G INTERSECTION				CTH G	CTH G	USH 10	USH 10	TOTAL
BID ITEM#	DESCRIPTION	SMCODE	MARKING LOCATION	UNIT	NB	SB	EB	WB	QUANTITY
646.5020	MARKING ARROWS EPOXY "TYPE 2"	SM-ARROW-2-R	RIGHT TURN LANE	EACH			2	2	4
646.5120	MARKING WORDS EPOXY	SM-ONLY	RIGHT TURN LANE	EACH			1	1	2
COUNTY	JACKSON								
CAT	0020								
MAP REFERENCE HWY	USH 10								
MAP REFERENCE SITE ID	CTH M INTERSECTION				СТН М	СТН М	USH 10	USH 10	TOTAL
BID ITEM#	DESCRIPTION	SMCODE	MARKING LOCATION	UNIT	NB	SB	EB	WB	QUANTITY
646.5020	MARKING ARROWS EPOXY "TYPE 2"	SM-ARROW-2-R	RIGHT TURN LANE	EACH				2	2
646.5120	MARKING WORDS EPOXY	SM-ONLY	RIGHT TURN LANE	EACH				1	1
COUNTY	JACKSON								
CAT	0020								
MAP REFERENCE HWY	USH 10								
MAP REFERENCE SITE ID	CTH T INTERSECTION					СТН Т	USH 10	USH 10	TOTAL
BID ITEM #	DESCRIPTION	SMCODE	MARKING LOCATION	UNIT	NB	SB	EB	WB	QUANTITY
646.5020	MARKING ARROWS EPOXY "TYPE 2"	SM-ARROW-2-R	RIGHT TURN LANE	EACH			2		2
646.5120	MARKING WORDS EPOXY	SM-ONLY	RIGHT TURN LANE	EACH			1		1
COUNTY	JACKSON								
CAT	0030								
MAP REFERENCE HWY	STH 121								
MAP REFERENCE SITE ID	IH 94 WB ON RAMP				STH 121	STH 121			TOTAL
BID ITEM#	DESCRIPTION	SMCODE	MARKING LOCATION	UNIT	NB	SB	EB	WB	QUANTITY
DID II CIVI #									_
646.5020	MARKING ARROWS EPOXY "TYPE 2"	SM-ARROW-2-R	RIGHT TURN LANE	EACH	2				2

HWY: VARIOUS

COUNTY: VARIOUS

MISCELLANEOUS QUANTITIES

SHEET

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PROJECT NO: 1000-18-29

			MARKING (SPECIAL MARKII	NG)					
COUNTY	CHIPPEWA			,					
MAP REFERENCE	CHIPPEWA 28								
CAT	0050								
MAP REFERENCE HWY	STH 124								
MAP REFERENCE SITE ID	STH 64 - E OF BLOOMER				STH 124		STH 64	STH 64	TOTAL
BID ITEM #	DESCRIPTION	SMCODE	MARKING LOCATION	UNIT	NB	SB	EB	WB	QUANTITY
646.6120	MARKING STOP LINE EPOXY 18-INCH	SM-STOPBAR-18 INCH	MAINLINE	L.F.	33				33
COUNTY	CHIPPEWA								
MAP REFERENCE									
CAT	0050								
MAP REFERENCE HWY	STH 124								
MAP REFERENCE SITE ID	CTH SS				STH 124	STH 124		CTH SS	TOTAL
BID ITEM #	DESCRIPTION	SMCODE	MARKING LOCATION	UNIT	NB	SB	EB	WB	QUANTITY
646.5020	MARKING ARROWS EPOXY "TYPE 2"	SM-ARROW-2-R	RIGHT TURN LANE	EACH		2			2
COUNTY	CHIPPEWA								
MAP REFERENCE									
CAT	0050								
MAP REFERENCE HWY	STH 124								
MAP REFERENCE SITE ID	СТН Ү				STH 124	STH 124	CTH Y		TOTAL
BID ITEM #	DESCRIPTION	SMCODE	MARKING LOCATION	UNIT	NB	SB	EB	WB	QUANTITY
646.5020	MARKING ARROWS EPOXY "TYPE 2"	SM-ARROW-2-R	RIGHT TURN LANE	EACH	2				2
COUNTY	CHIPPEWA								
MAP REFERENCE									
CAT	0050								
MAP REFERENCE HWY	STH 124								
MAP REFERENCE SITE ID	105TH AVENUE				STH 124	STH 124	105TH	105TH	TOTAL
BID ITEM #	DESCRIPTION	SMCODE	MARKING LOCATION	UNIT	NB	SB	EB	WB	QUANTITY
646.5020	MARKING ARROWS EPOXY "TYPE 2"	SM-ARROW-2-R	RIGHT TURN LANE	EACH	2	2			4
COUNTY	CHIPPEWA								
MAP REFERENCE	CHIPPEWA 39								
CAT	0050								
MAP REFERENCE HWY	STH 124								
MAP REFERENCE SITE ID	140TH ST - N OF CHIPPEWA FALLS				STH 124	STH 124	140TH ST		TOTAL
BID ITEM #	DESCRIPTION	SMCODE	MARKING LOCATION	UNIT	NB	SB	EB	WB	QUANTITY
646.5020	MARKING ARROWS EPOXY "TYPE 2"	SM-ARROW-2-R	LEFT TURN LANE	EACH		2			2
646.5120	MARKING WORDS EPOXY	SM-ONLY	LEFT TURN LANE	EACH		1			1
646.7120	MARKING DIAGONAL EPOXY 12-INCH	SM-DIAGONAL-YELLOW	MEDIAN ISLAND	L.F.	100	110			210
COUNTY	CHIPPEWA								
MAP REFERENCE	CHIPPEWA 40								
CAT	0050								
MAP REFERENCE HWY	STH 124								
MAP REFERENCE SITE ID	CTH S - N OF CHIPPEWA FALLS - ROUNDABOUT				CTH SS	CTH W EB	USH 8	USH 8	TOTAL
BID ITEM #	DESCRIPTION	SMCODE	MARKING LOCATION	UNIT	NB	SB	EB	WB	QUANTITY
646.6305	MARKING DOTTED EXTENSION PAINT 18-INCH	SM-RA-DOTTED EL-W	ROUNDABOUT LEG	L.F.	24	21	24	24	93
646.7120	MARKING DIAGONAL EPOXY 12-INCH	SM-DIAGONAL-YELLOW	MEDIAN ISLAND	L.F.	29	31			60
646.8120	MARKING CURB EPOXY	SM-CURB-YELLOW	MEDIAN ISLAND	L.F.	10	10			20
646.8220	MARKING ISLAND NOSE EPOXY	SM-ISLAND NOSE - YELLOW	MEDIAN ISLAND	EACH	1	1			2
COUNTY	CHIPPEWA								
MAP REFERENCE	CHIPPEWA 48								
CAT	0050								
MAP REFERENCE HWY	STH 124								
MAP REFERENCE SITE ID	136ST ST - CHIPPEWA FALLS				STH 124	STH 124	136th St		TOTAL
BID ITEM #	DESCRIPTION	SMCODE	MARKING LOCATION	UNIT	NB	SB	EB	WB	QUANTITY
646.5020	MARKING ARROWS EPOXY "TYPE 2"	SM-ARROW-2-R	LEFT TURN LANE	EACH	2	35		****	2
070.3020	MARKING WORDS EPOXY								
646 5120	WARNING WURLD FPUXY	SM-ONLY	LEFT TURN LANE	EACH	1				1
646.5120 646.7120	MARKING DIAGONAL EPOXY 12-INCH	SM-DIAGONAL-YELLOW	MEDIAN ISLAND	L.F.	91	49			140

FILE NAME : G:\WDOTCO\16048 (2016-2018 DESIGN WO)\16048-014\CIVIL3D\SHEETSPLAN\030201-MQ.DWG

PROJECT NO: 1000-18-29

PLOT DATE : 7/19/2018

COUNTY: VARIOUS

MISCELLANEOUS QUANTITIES

PLOT BY : KL ENGINEERING PLOT NAME : \_\_\_\_\_PLOT SCALE : 1:1.185

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SHEET

HWY: VARIOUS

# Standard Detail Drawing List

08E10-02	INLET PROTECTION TYPE A, B, C AND D
15C04-05	TRAFFIC CONTROL, ADVANCÉ WARNING SIGNS 45 M.P.H. OR GREATER TWO-WAY UNDIVIDED ROAD OPEN TO TRAFFIC
15C07-14B	PAVEMENT MARKING WORDS
15C07-14C	PAVEMENT MARKING ARROWS
15C08-19A	LONGITUDINAL MARKING (MAINLINE)
15C08-19B	PAVEMENT MARKING (TURN LANES)
15C08-19C	PAVEMENT MARKING (TURN LANES)
15C12-06	TRAFFIC CONTROL FOR LANE CLOSURE WITH FLAGGING OPERATION
15C18-04	MEDIAN ISLAND MARKING
15C19-05A	MOVING PAVEMENT MARKING OPERATION TWO-LANE TWO-WAY ROADWAY
15C19-05B	MOVING PAVEMENT MARKING OPERATION MULTI-LANE UNDIVIDED ROADWAY
15C27-03B	PAVEMENT MARKING (ISLANDS)
15C33-03	STOP LINE AND CROSSWALK PAVEMENT MARKING
15C34-03	STANDARD APPLICATION FOR TEMPORARY RAISED PAVEMENT MARKER, TYPE 2
15C35-03A	PAVEMENT MARKING (INTERSECTIONS)
15D37-02	TRAFFIC CONTROL, 2-LANE ROUNDABOUT
15D38-02A	TEMPORARY TRAFFIC CONTROL SIGN MOUNTING
15D38-02B	ATTACHMENT OF SIGNS TO POSTS

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INLET PROTECTION, TYPE A

# **GENERAL NOTES**

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

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

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

- 1) FINISHED SIZE, INCLUDING FLAP POCKETS WHERE REQUIRED, SHALL EXTEND A MINIMUM OF 10" AROUND THE PERIMETER TO FACILITATE MAINTENANCE OR REMOVAL.
- (2) FOR INLET PROTECTION, TYPE C (WITH CURB BOX), AN ADDITIONAL 18" OF FABRIC IS WRAPPED AROUND THE WOOD AND SECURED WITH STAPLES. THE WOOD SHALL NOT BLOCK THE ENTIRE HEIGHT OF THE CURB BOX OPENING.
- (3) FLAP POCKETS SHALL BE LARGE ENOUGH TO ACCEPT WOOD 2X4.



# INLET PROTECTION, TYPE C (WITH CURB BOX)

## **INSTALLATION NOTES**

# TYPE B & C

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

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

#### TYPE D

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

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

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

### INLET PROTECTION TYPE A, B, C, AND D

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

APPROVED

10/16/02

/S/ Beth Cannestra CHIEF ROADWAY DEVELOPMENT ENGINEER 6

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# **GENERAL NOTES**

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

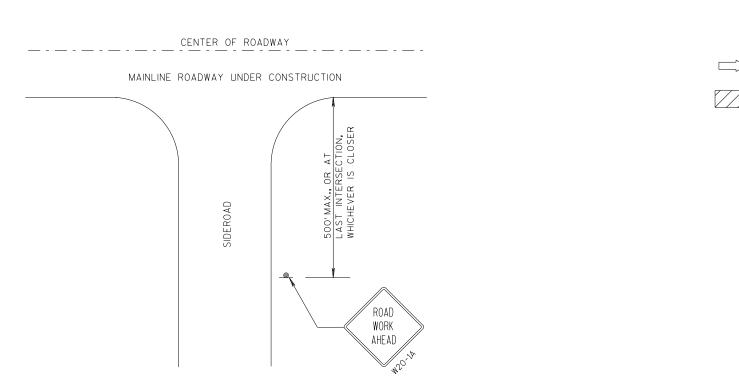
THE SPACING BETWEEN TRAFFIC CONTROL SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND SHOULD PROVIDE A MINIMUM OF 200 FEET (500 FEET DESIRABLE) CLEARANCE TO EXISTING SIGNS THAT WILL REMAIN IN PLACE.

ALL SIGNS ARE 48"x48" UNLESS OTHERWISE NOTED.

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

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

- imes OMIT G20-1 SIGNS IF LENGTH OF WORK AREA IS 2 MILES OR LESS.
- \*\* PLACE ADDITIONAL W20-1A "ROAD WORK AHEAD" SIGN IF WORK AREA WITHIN THE PROJECT IS SEPARATED BY MORE THAN 2 MILES FROM PREVIOUS WORK AREA.



LEGEND

SIGN ON PERMANENT SUPPORT

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DIRECTION OF TRAFFIC

WORK AREA

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

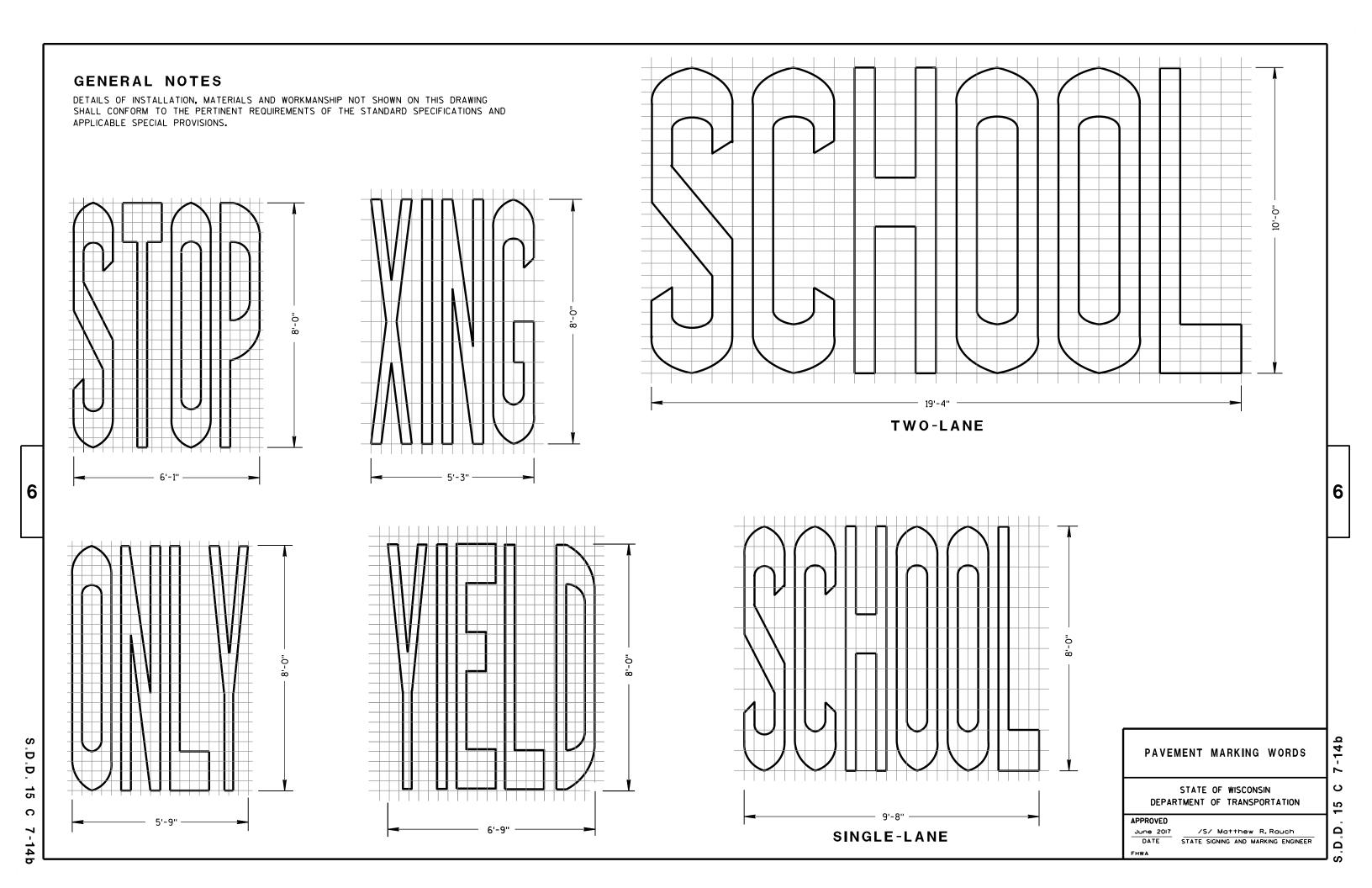
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

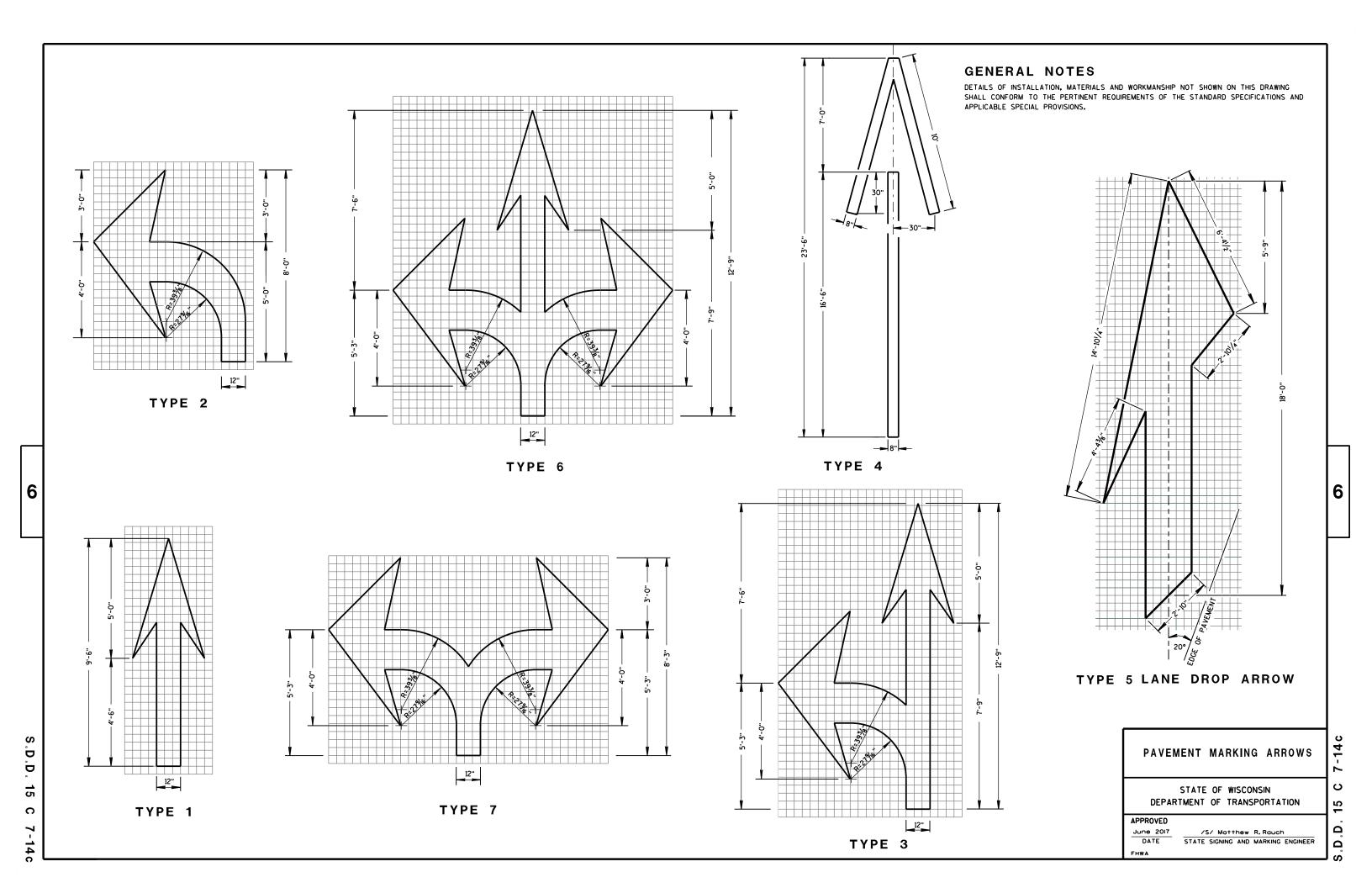
APPROVED

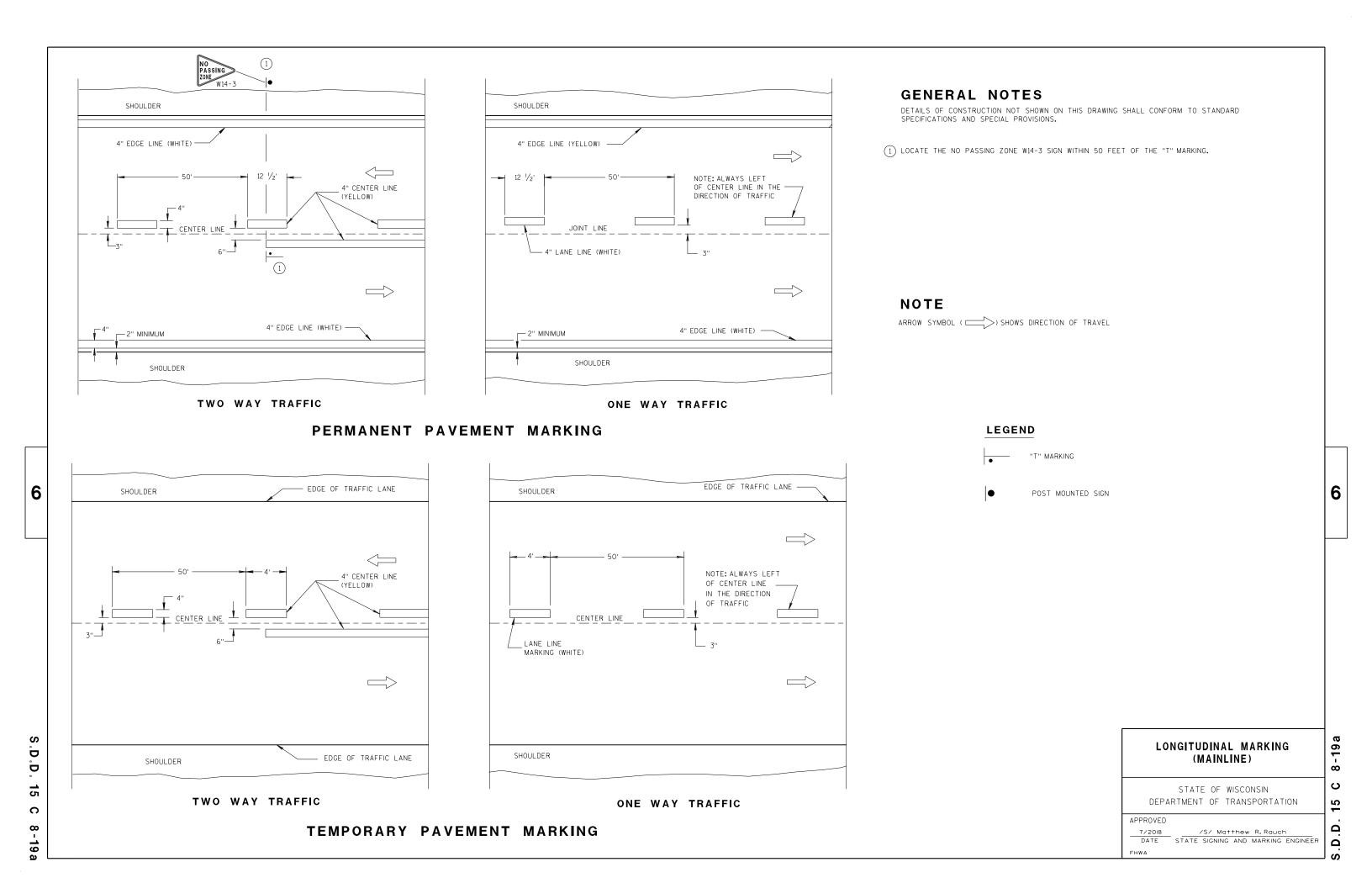
7/2018 /S/ Andrew Heidtke
DATE WORK ZONE ENGINEER

D.D. 15 C 4

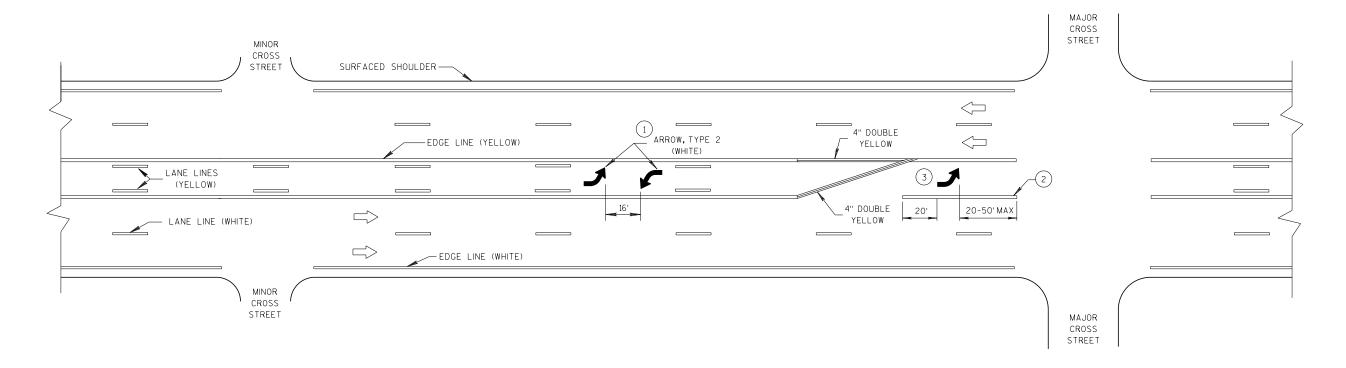
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- 1 A SET OF ARROWS IS REQUIRED EVERY 400 FEET OR NEAR INTERSECTIONS OR DRIVEWAYS WITH TURNING TRAFFIC.
- 2 8" WHITE
- (3) TURN BAY LENGTH OF LESS THAN 48'DOES NOT REQUIRE PAVEMENT ARROWS OR TEXT
- DIRECTION OF TRAFFIC



TWO WAY LEFT TURN LANE

PAVEMENT MARKING (TURN LANES) 6

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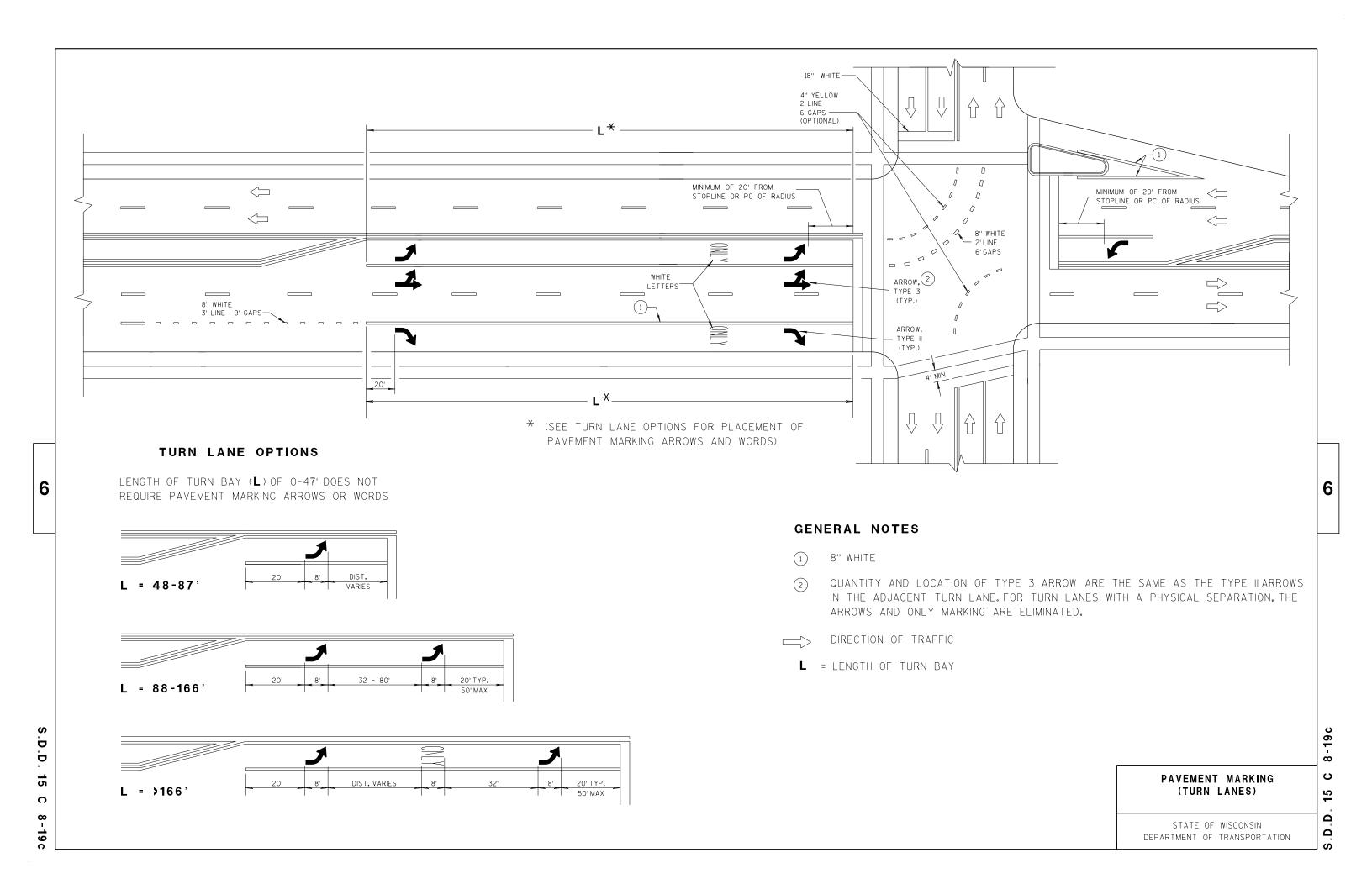
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STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

15 C 8-19b



# TRAFFIC CONTROL FOR LANE CLOSURE WITH FLAGGING OPERATION

STOP/SLOW PADDLE ON SUPPORT STAFF

5' MIN.

WORK

AHEAD

48" X 24"

END ROAD WORK G20-2A

(2)

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W20-1A

## **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.

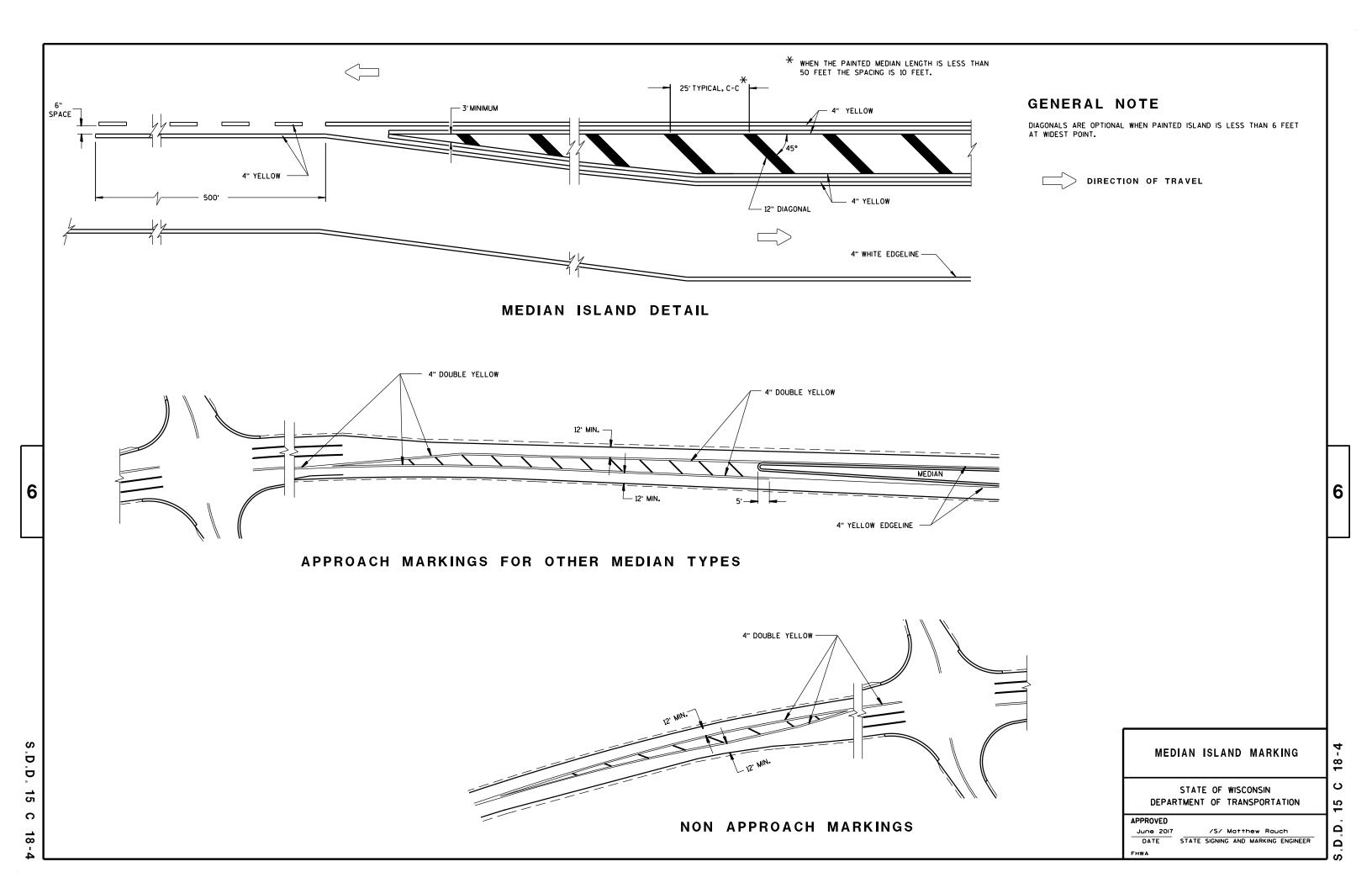
- 1) FOR A MOVING WORK OPERATION, SIGNING AND TEMPORARY RUMBLE STRIPS (IF USED) SHALL BE REESTABLISHED (AS SIMULTANEOUSLY AS PRACTICAL) AT APPROXIMATELY 3,500 FOOT INTERVALS IN THE MOVING WORK OPERATION OR AS APPROVED BY THE ENGINEER.
- SIGN NOT REQUIRED IF FLAGGING OPERATION OCCURS WITHIN A SIGNED ROAD WORK ZONE AREA.
- EACH TEMPORARY RUMBLE STRIP ARRAY CONSISTS OF THREE RUMBLE STRIPS SPACED ACCORDING TO MANUFACTURER'S RECOMMENDATION, PLACED TRANSVERSE ACROSS THE LANE AT LOCATIONS SHOWN.

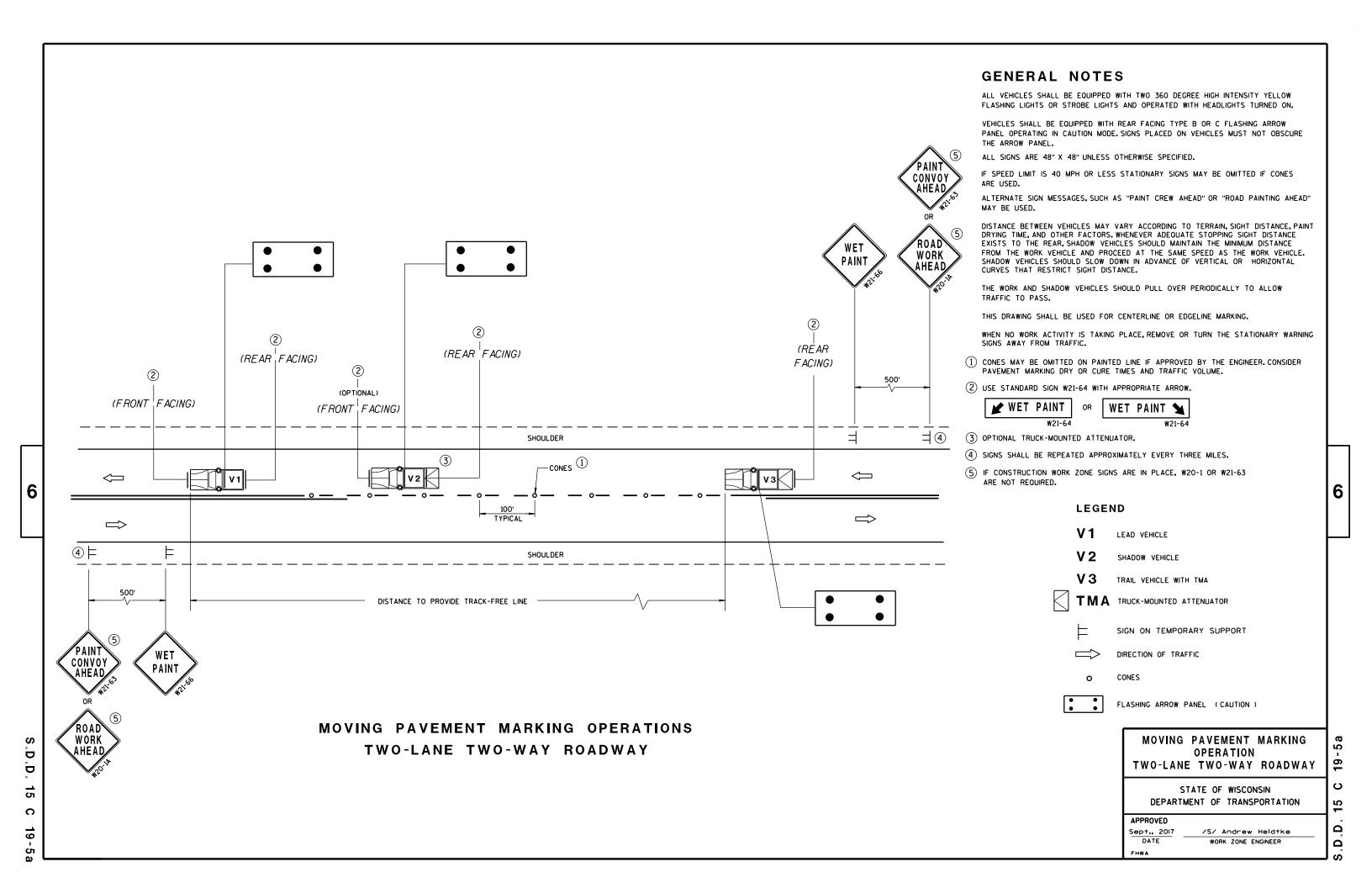
# TRAFFIC CONTROL FOR LANE CLOSURE WITH FLAGGING OPERATION

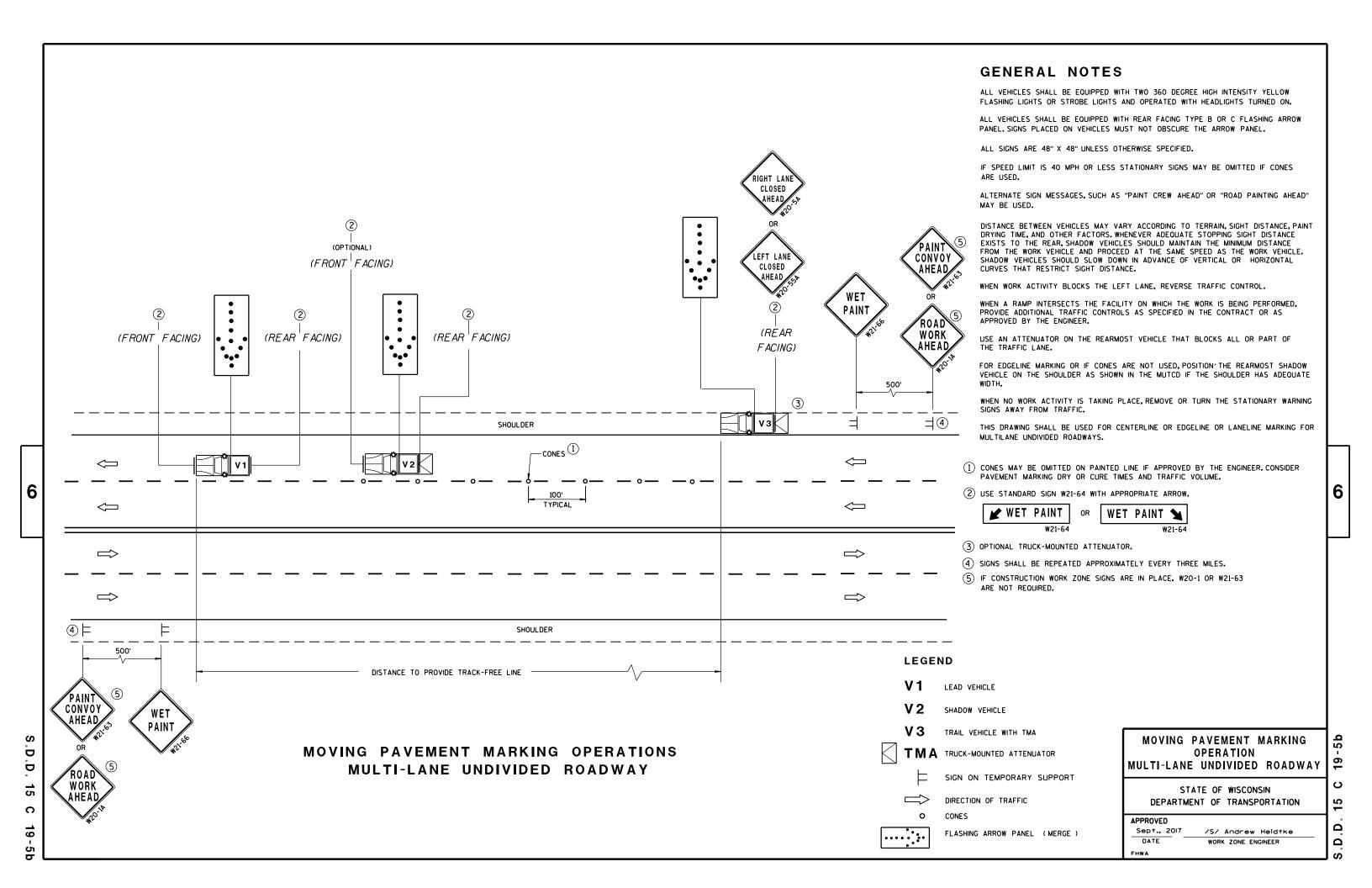
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

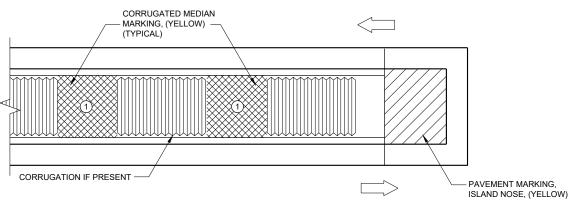
APPROVED	
June 2017	/S/ Andrew Heidtke
DATE	WORK ZONE ENGINEER
FHWA	

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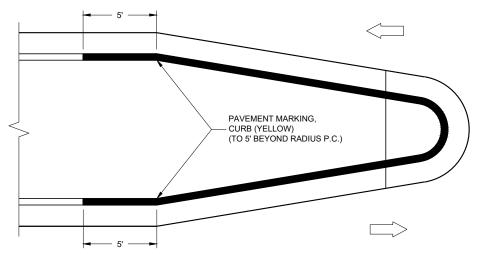




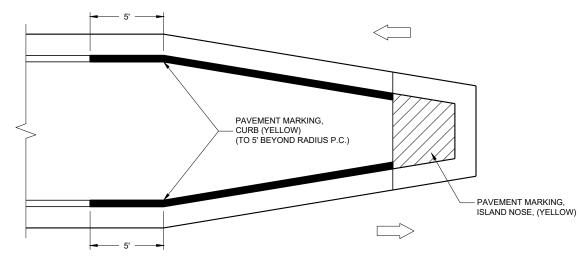




# MEDIAN ISLAND WITH SQUARE BLUNT NOSE



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

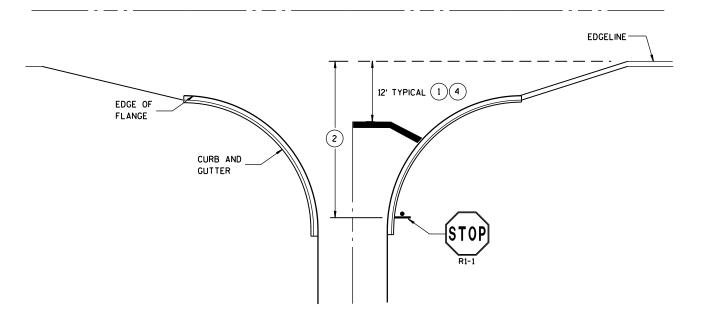
# PAVEMENT MARKINGS (ISLANDS)

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**SDD 15C27** 

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

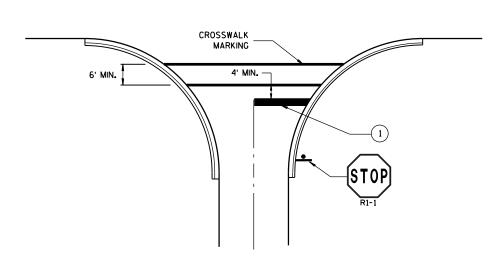
APPROVED	
7/2018	/S/ Matthew R. Rauch
DATE	STATE SIGNING AND MARKING ENGINEER
THWA	



8" CHANNELIZATION WHITE FLANGELINE (EXTENSION) WHITE EDGELINE 4' TYPICAL (4)

TYPICAL STOP LINE PAVEMENT MARKING WITH CURB AND GUTTER

TYPICAL STOP LINE PAVEMENT MARKING FOR SIDEROADS WITH RIGHT TURN LANE



- EDGELINE 12' TYPICAL (1)

TYPICAL STOP LINE PAVEMENT MARKING FOR SIDEROADS WITH CROSSWALK MARKING

TYPICAL STOP LINE PAVEMENT MARKING WITHOUT CURB AND GUTTER

# **GENERAL NOTES**

STOP SIGN SHALL BE PLACED A MINIMUM OF 6 FEET TO A MAXIMUM OF 50 FEET FROM THE EDGELINE LOCATION.

- 1 18-INCH STOP LINES MAY BE DELETED OR ADDED BY THE PROJECT ENGINEER BASED ON VISIBILITY AND SIGHT LINES.
- 2 IF STOP SIGN IS LESS THAN OR EQUAL TO 40 FEET FROM THE EDGELINE THAN NO STOP LINE IS REQUIRED.
- (3) IF STOP SIGN IS LESS THAN OR EQUAL TO 30 FEET FROM THE FLANGELINE EXTENSION THAN NO STOP LINE IS REQUIRED.
- (4) MOVE CLOSER TO EDGE OF TRAVEL LANE AS NEEDED FOR VISIBILITY AND SIGHT LINES. (NO CLOSER THAN 4 FEET).

# STOP LINE AND CROSSWALK **PAVEMENT MARKING**

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

APPROVED						
Sept., 2017		/\$/	Matth	ew R.	Ro	uch
DATE	STATE	SIGNIN	G AND	MARKI	NG	ENGINEER
FHWA						

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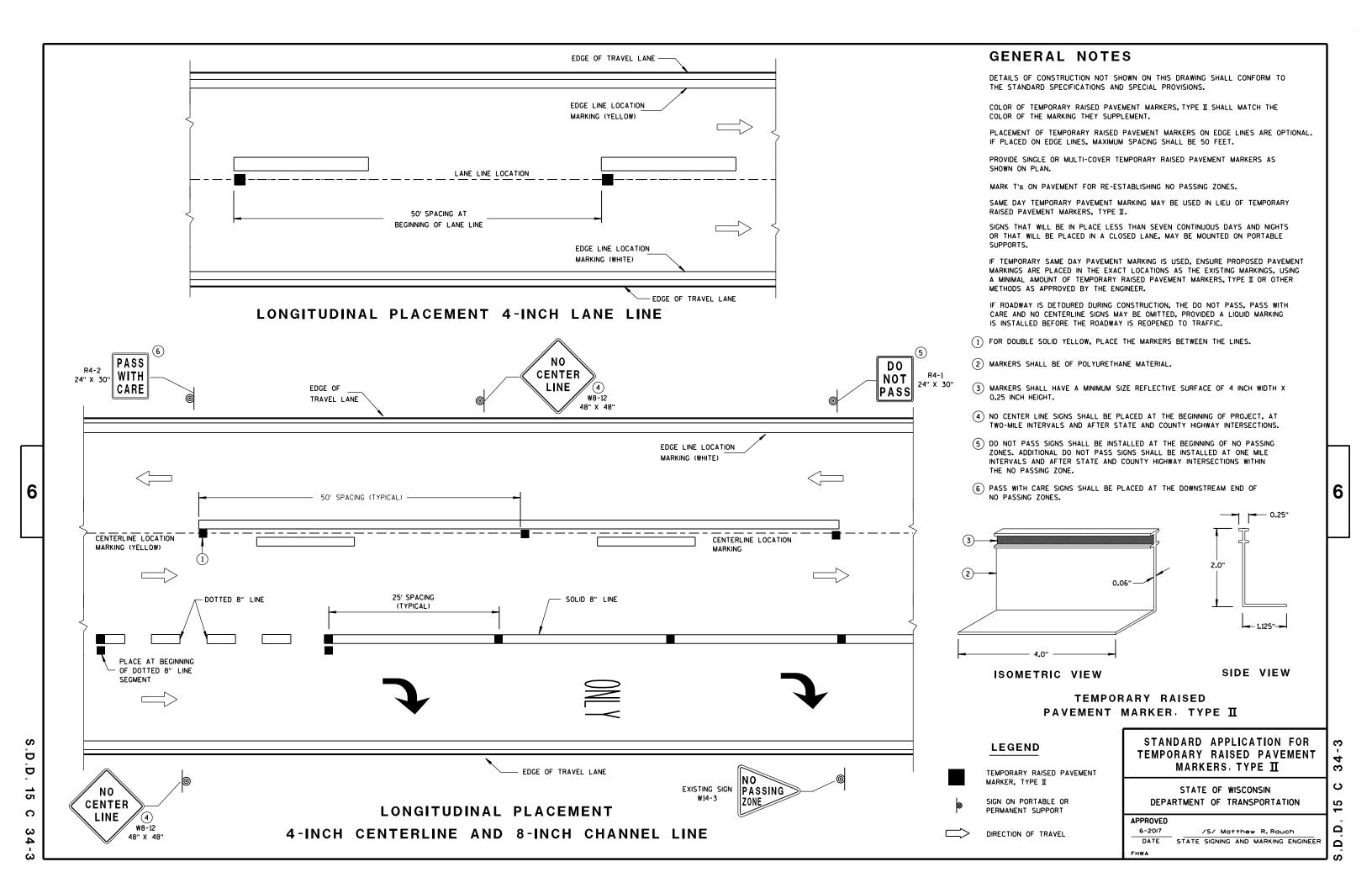
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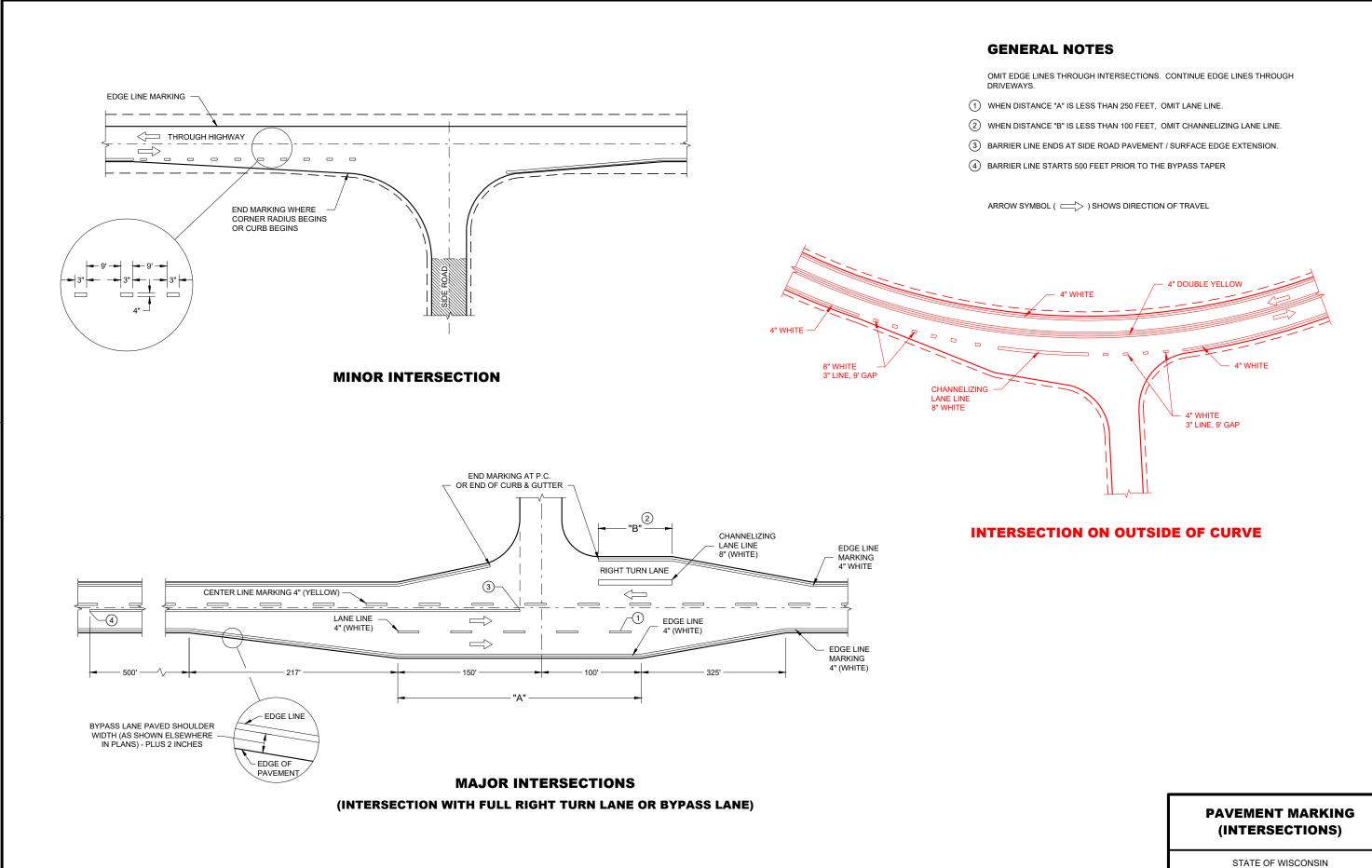
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**SDD 15C35** 

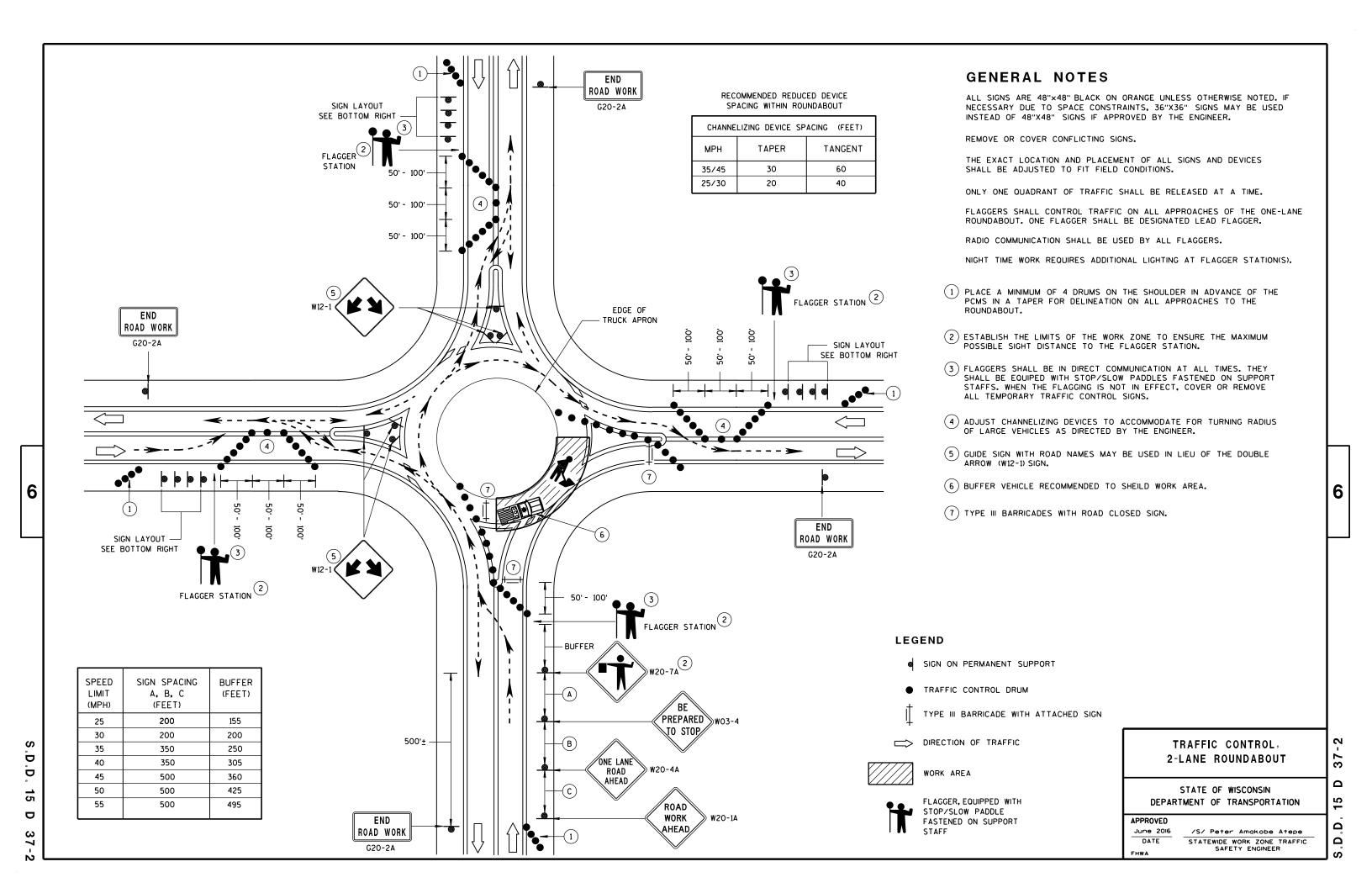
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15C35

SDD

DEPARTMENT OF TRANSPORTATION





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		
L	E	WOOD POSTS 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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NUTS, BOLTS AND LAGS USED FOR MOUNTING SIGNS SHALL HAVE HEXAGONAL HEADS AND SHALL BE EITHER:

- A. HOT DIP GALVANIZED IN ACCORDANCE WITH ASTM DESIGNATION: A 153, CLASS D, OR SC 3
- B. ELECTRO-GALVANIZED IN ACCORDANCE WITH ASTM DESIGNATION: B 633, TYPE III, SC 3

THREADS ON BOLTS AND NUTS SHALL BE MANUFACTURED WITH SUFFICIENT ALLOWANCE FOR THE CADMIUM PLATE OR GALVANIZED COATING TO PERMIT THE NUTS TO RUN FREELY ON THE BOLTS.

WOOD POSTS (4" x 4" or 4" x 6")

LAG SCREWS - 3/8" X 3"

MACHINE BOLTS - 1/6" X 6-1/2" OR 7" LENGTH W/ NUTS

SQUARE STEEL POSTS (2" x 2")

MACHINE BOLTS - 3/8" X 3-1/4" LENGTH W/ NUTS

RIVETS - 32 " (6605-9-6) BULB-TITE, TRI-FOLD, ALUMINUM BODY/MANDREL O.D. FLANGE .720-.765 INCH, GRIP RANGE .042-.375 INCH

WASHERS (ALL POSTS) -

1-1/4" O.D. X 3/8" I.D. X 1/16" STEEL

1-1/4" O.D. X 3/8" I.D. X .080 NYLON FOR ALL TYPE H SIGNS

\* 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. FOR A SINGLE POST INSTALLATION, ALL SIGNS GREATER THAN 9 SQ. FT. REQUIRE THE USE OF 3 FASTENERS.

> ATTACHMENT OF SIGNS TO POSTS

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

APPROVED

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

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# Wisconsin Department of Transportation

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