### MAY 2017 ORDER OF SHEETS Section No. 1

Typical Sections and Details Estimate of Quantities Miscellaneous Quantities

Right of Way Plat

Plan and Profile

Standard Detail Drawings

DEPARTMENT OF TRANSPORTATION

STATE OF WISCONSIN

PLAN OF PROPOSED IMPROVEMENT

WCL - USH 141

WCL - CTH O

USH 8

MARINETTE COUNTY

STATE PROJECT NUMBER 1590-16-71

R-18-E

R-17-E

#### DESIGN DESIGNATION

Section No. 2

Section No. 3

Section No. 4

Section No. 5 Section No. 6

TOTAL SHEETS = 402

Section No. 7 Sign Plates

Section No. 8 Structure Plans

Section No. 9 Cross Sections

Section No. 9 Computer Earthwork Data

A.A.D.T. (2017) - 2,100 A.A.D.T. (2037) . 2.500 D.H.V. - 320 D.D. • 61/39 - 13.1% DESIGN SPEED - 30-55 MPH

ESALS - 766.500

## CONVENTIONAL SYMBOLS

WOODED OR SHRUB AREA

PLAN 1111111 CORPORATE LIMITS PROPERTY LINE LOT LINE LIMITED HIGHWAY EASEMENT EXISTING RIGHT OF WAY PROPOSED OR NEW R/W LINE SLOPE INTERCEPT REFERENCE LINE EXISTING CULVERT PROPOSED CULVERT (Box or Pipe)

COMBUSTIBLE FLUIDS MARSH AREA

GRADE LINE ORIGINAL GROUND SPECIAL DITCH GRADE ELEVATION UTILITIES FI FCTRIC FIRER OPTIC SANITARY SEWER

WATER

PROFILE MARSH OR ROCK PROFILE (To be noted as such) CULVERT (Profile View) STORM SEWER TELEPHONE

BEGIN PROJECT 1590-16-71

STA. 353+29.42

Y • 352,983.34 X • 600,164.72

STRUCTURE B-38-025 T-36-N

STA. 642+20.10 BK. STA. 643+40.57 AHD.

T-37-N

LAYOUT TOTAL NET LENGTH OF CENTERLINE = 14.26 MI.

STA. 982+33.22 BK. - EQUATION

STA. 1108+26.55

EXCEPTION TO NET & LENGTH

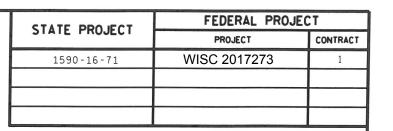
962+82.39 - 963+32.47

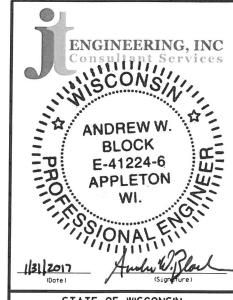
STRUCTURE B-38-70

STRUCTURE B-38-910

END PROJECT 1590-16-71

STA. 982+46.06 AHD.





#### STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

PREPARED BY Surveyor Designer Project Manager

COLEMEN ENGINEERING JT Engineering, Inc. P. ZOELLNER

Regional Examiner D. SEGERSTROM Regional Supervisor C.O. Examiner

APPROVED FOR TH

UTILITY PEDESTAL

TELEPHONE POLE

POWER POLE

#### **GENERAL NOTES**

CONTACT THE UTILITES AND DIGGERS HOTLINE TO LOCATE AND FIELD VERIFY UTILITIES PRIOR TO THE START OF WORK. THE LOCATIONS 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. ANY LOCAL, MUNICIPAL, OR OTHER UTILITY THAT IS NOT A MEMBER OF DIGGERS HOTLINE SHALL BE CONTACTED SEPARATELY.

CROSS SECTIONS SHOWN INCLUDE THE THICKNESS OF TOPSOIL WHERE REQUIRED. TOPSOIL SHALL BE REPLACED WITH SPECIFIED THICKNESS AS OUTLINED IN THE STANDARD SPECIFICATIONS.

FILL AND COMPACT ALL HOLES OR OPENINGS BELOW SUBGRADE RESULTING FROM ABANDONMENT OR REMOVAL OF EXISTING STRUCTURES WITH GRANULAR BACKFILL. BACKFILLING IS INCIDENTAL TO CORRESPONDING ABANDONMENT OR REMOVAL ITEM.

A SAWED JOINT IS REQUIRED WHERE NEW HMA PAVEMENT MEETS EXISTING HMA PAVEMENT.

CURB AND GUTTER GRADES ARE GIVEN TO THE FLANGE. CURB AND GUTTER RADII ARE ALSO MEASURED TO THE FLANGE. GRADES ARE PROVIDED AT THE BACK OF CURB AT CURB RAMP LOCATIONS ADJACENT TO TRAVELED LANES, AND AT THE FACE OF PEDESTRIAN CURB.

REFER TO THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) PART 6 FOR APPROPRIATE MEASURES NECESSARY FOR WORK IN THE VICINITY OF A RAILROAD GRADE CROSSING AND FOR VEHICLE QUEUES NEAR THE CROSSING.

#### ORDER OF SECTION 2 DETAIL SHEETS

GENERAL NOTES
PROJECT OVERVIEW
TYPICAL SECTIONS
CONSTRUCTION DETAILS
PLAN DETAIL
EROSION CONTROL PLAN
STORM SEWER PLAN
PERMANENT SIGNING



www.DiggersHotline.com

#### **UTILITY CONTACTS**

#### **ANR PIPELINE - GAS /PETROLEUM**

MR. JOHN BENOIT W1568 US HWY 8 GOODMAN, WI 54125 PHONE: (715) 336-2608 MOBILE: (715) 853-9840 JOHN\_BENOIT@TRANSCANADA.COM

#### **CENTURYLINK - COMMUNICATION LINE**

MR. PETER JOHNSON, SR. 2425 MARY STREET MARINETTE, WI 54143 PHONE: (715) 735-0059 MOBILE: (715) 938-1480

PETER.S. JOHNSON@CENTURYLINK.COM

#### PACKERLAND BROADBAND - COMMUNICATION LINE

MR. RANDY SIMMS
105 KENT STREET
IRON MOUNTAIN, MI 49801
PHONE: (800) 338-9299
MOBILE: (906) 282-3802

RANDY.SIMMS@CCISYSTEMS.COM

## NIAGRA TELEPHONE/NSIGHT TELSERVICES - COMMUNICATION LINE

MR. DENNIS LAFAVE 1700 INDUSTRIAL DRIVE GREEN BAY, WI 54302 PHONE: (920) 619-9774 DLAFAVE@MI-TECH.US

#### **GOODMAN SANITARY DISTRICT #1 - SEWER**

2

MS. NICOLE MILLAN P.O. BOX 356 GOODMAN, WI 54125-0356 PHONE: (715) 336-2608 MOBILE: (906) 221-0567 GOODMANSANITARY@YAHOO.COM

#### **TOWN OF GOODMAN - WATER**

MS. NICOLE MILLAN
P.O. BOX 356
GOODMAN, WI 54125-0356
PHONE: (715) 336-2608
MOBILE: (906) 221-0567
GOODMANSANITARY@YAHOO.COM

#### WISCONSIN PUBLIC SERVICE - GASI/PETROLEUM

MR. RORY TAMMINGA 1717 10<sup>TH</sup> AVENUE MENOMINEE, MI 49858 PHONE: (906) 863-4328 MOBILE: (262) 909-0645 RETAMMINGA@WISCONSINPUBLICSERVICE.COM

#### WISCONSIN PUBLIC SERVICE - ELECTRIC

JON JOANIS
1717 10<sup>TH</sup> AVENUE
MENOMINEE, MICHIGAME 49858
PHONE: (920) 617-5064
MOBILE: (715) 923-5533
JWJOANIS@WISCONSINPUBLICSERVICE.COM

PROJECT NO: 1590-16-71 HWY: USH 8 COUNTY: MARINETTE GENERAL NOTES SHEET:

FILE NAME : \_\_\_\_\_\_ PLOT BY : \_\_\_\_\_ PLOT BY : \_\_\_\_\_ PLOT NAME : \_\_\_\_\_ PLOT SCALE : 1:1

#### Ľ

#### CANADIAN NATIONAL (WISCONSIN CENTRAL LTD) CONTACTS

#### RAILROAD FLAGGING CONTACT

MS. MARY ELLEN CARMODY AUDIT OFFICER 2800 LIVERNOIS ROAD, SUITE 330 TROY, MI 48083 OFFICE: (248) 740-6227 FAX: (248) 740-6036 MARYELLEN.CARMODY@CN.CA

#### MAIN RAILROAD CONTACT

2

MS. JACKIE MACEWICZ MANAGER PUBLIC WORKS 1625 DEPOT STREET STEVENS POINT, WI 54481 OFFICE: (715) 345-2503 FAX: (715) 345-2534 JACKIE.MACEWICZ@CN.CA

#### 24 HOUR EMERGENCY RAILROAD SIGNAL

1-800-616-3432

#### **CALL BEFORE YOU DIG**

CANADIAN NATIONAL (WISCONSIN CENTRAL LTD) IS NOT PART OF DIGGERS HOTLINE CALL CHRISTINE GRZESIAK, (715) 345-2506, WHEN DIGGING ON RAILROAD R/W

#### **ABBREVIATIONS**

AEW	APRON END WALL	PE	PRIVATE ENTRANCE
AGG	AGGREGATE	Pl	POINT OF INTERSECTION
BAD	BASE AGGREGATE DENSE	PLE	PERMANENT LIMITED EASMENT
ВМ	BENCH MARK	PT	POINT OF TANGENT
C&G	CURB AND GUTTER	R	RADIUS OF CURVE
C/L	CENTER OR CONSTRUCTION LINE	R/L	REFERENCE LINE
CMCP	CULVERT PIPE CORRUGATED METAL	R/W	RIGHT OF WAY
CONC	CONCRETE	RC	REVERSE CROWN
CP	CULVERT PIPE	RCAEW	APRON ENDWALL FOR CULVERT PIPE REINFORCED CONCRETE
CPRC	CULVERT PIPE REINFORCED CONCRETE	REQD	REQUIRED
CSD	CONCRETE SURFACE DRAIN	RHF	RIGHT HAND FORWARD
CY	CUBIC-YARD	RO	RUN OFF LENGTH
D	DEGREE OF CURVE	RRSP	RAILROAD SPIKE
Δ	DELTA	RT	RIGHT
DISCH	DISCHARGE	SALV	SALVAGED
EAT	ENERGY ABSORBING TERMINAL	SAPBC	SALVAGED ASPHALTIC PAVEMENT BASE COARSE
FE	FIELD ENTRANCE	SB	SOUTHBOUND
HMA	HOT MIX ASPHALT	SDD	STANDARD DETAIL DRAWINGS
INV	INVERT	SE	SUPER ELEVATION
L	LENGTH OF CURVE	SF	SQUARE FOOT
LHF	LEFT HAND FORWARD	SSPRC	STORM SEWER PIPE REINFORCED CONCRETE
LT	LEFT	STA	STATION
MIN	MINIMUM	SY	SQUARE YARD
M/L	MATCHLINE	Т	TANGENT LENGTH
NB	NORTHBOUND	TLE	TEMPORARY LIMITED EASEMENT
NC	NORMAL CROWN	VCL	VERTICAL CURVE LENGTH
PAVT	PAVEMENT	VPC	POINT OF VERTICAL CURVE
PC	POINT OF CURVE	VPI	POINT OF VERTICAL INTERSECTION
PCC	POINT OF COMPOUND CURVE	VPT	POINT OF VERTICAL TANGENT

#### **DESIGNER**

ANDREW BLOCK
JT ENGINEERING, INC.
1077 CENTENNIAL CENTRE BLVD.
HOBART, WI 54155
(920) 468-4771
ANDYBLOCK@JT-ENGINEERING.COM

## NORTHEAST REGIONAL SURVEY COORDINATOR

MR. CORMAC MCINNIS 944 VANDERPERREN WAY GREEN BAY, WI 54304-5344 PHONE: (920) 492-5338 CORMAC.MCINNIS@DOT.WI.GOV

#### **DNR AREA LIAISON**

MR. JAMES DOPERALSKI JR.
DEPARTMENT OF NATURAL RESOURCES
2984 SHAWANO AVENUE
GREEN BAY, WI 54313
(920) 662-5472
JAMES.DOPERALSKI@WISCONSIN.GOV

#### **US ARMY CORP OF ENGINEERS**

MR. RYAN HUBER OLD FORT SQUARE 211 N. BROADWAY, STE 221 GREEN BAY, WI 54303 (651) 290-5859

## MARINETTE COUNTY HIGHWAY COMMISSIONER

MR. RAYMOND PALONEN 501 PINE STREET PESHTIGO, WI 54157 PHONE: (715) 582-3771

## TOWN OF GOODMAN CHAIRPERSON

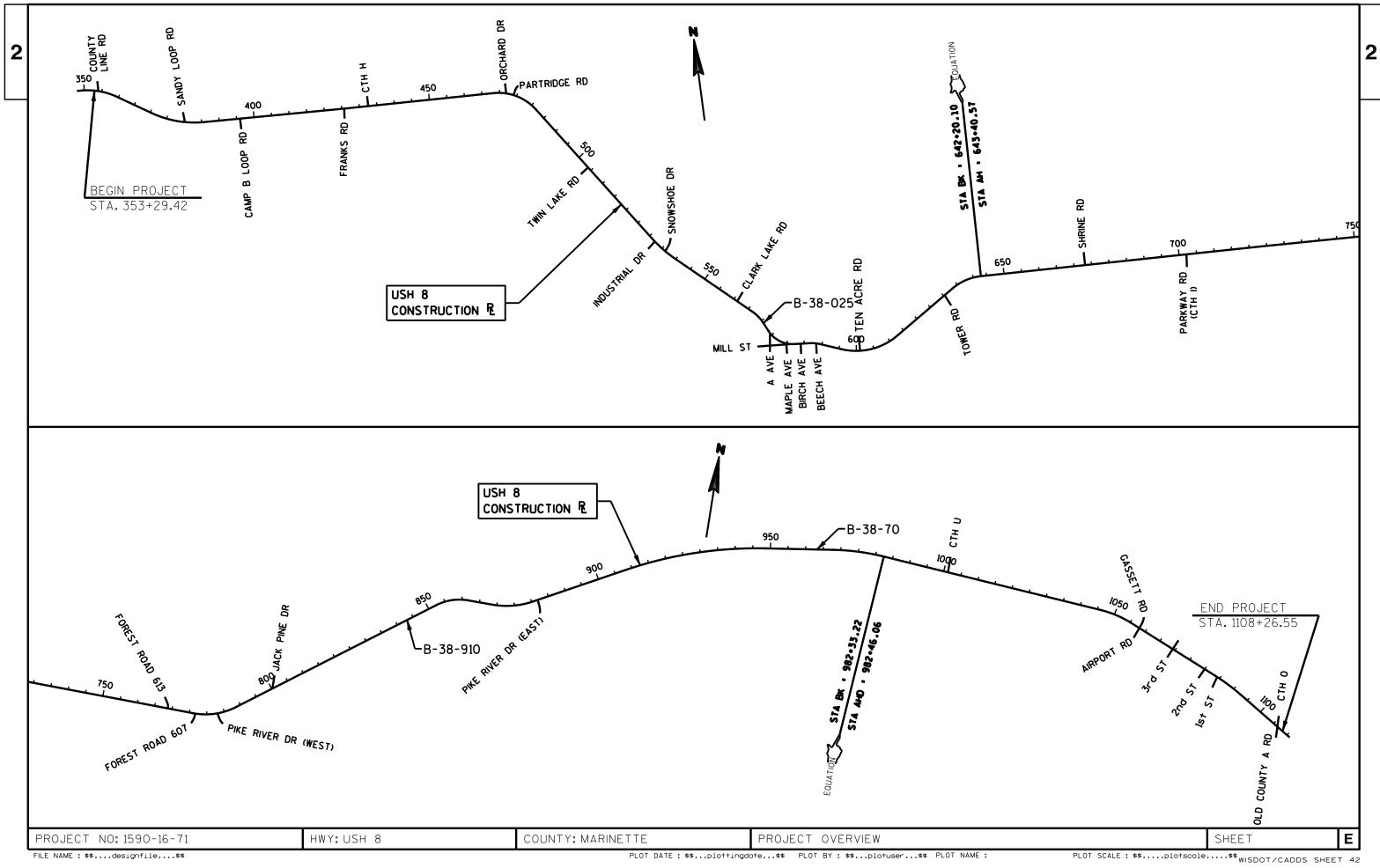
MR. BILL STANKEVICH 506 MILL STREET GOODMAN, WI 54125 PHONE: (715) 336-2806

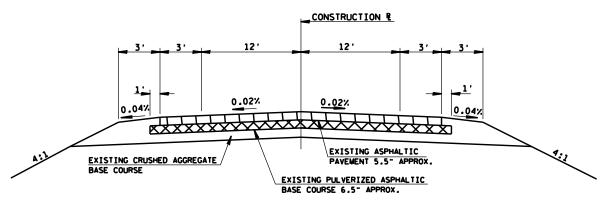
#### TOWN OF DUNBAR CHAIRPERSON

MR. HARRY SOKEL N18956 CC CAMP ROAD DUNBAR, WI 54119 PHONE: (715) 324-6132

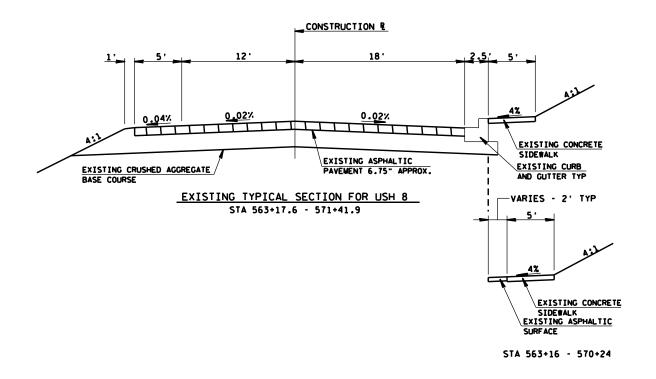
PROJECT NO: 1590-16-71 HWY: USH 8 COUNTY: MARINETTE GENERAL NOTES SHEET: E

FILE NAME : \_\_\_\_\_\_ PLOT BY : \_\_\_\_\_ PLOT BY : \_\_\_\_\_ PLOT NAME : \_\_\_\_\_ PLOT SCALE : 1:1

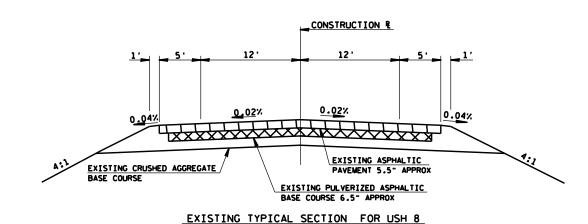


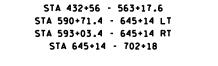


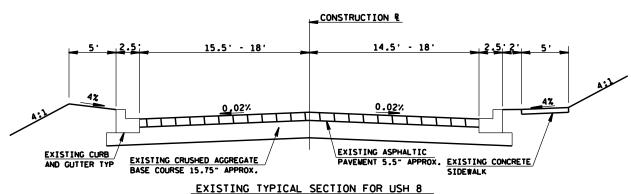
# EXISTING TYPICAL SECTION FOR USH 8 STA 353+29.42 - 432+56 STA 702+18 - 1067+09 STA 1084+32 - 1108+26.6



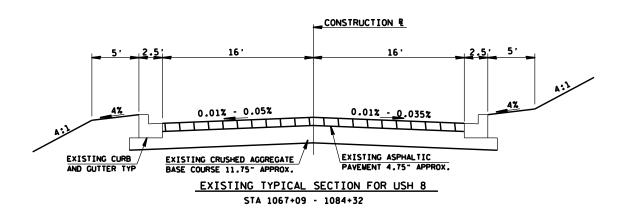
HWY: USH 8

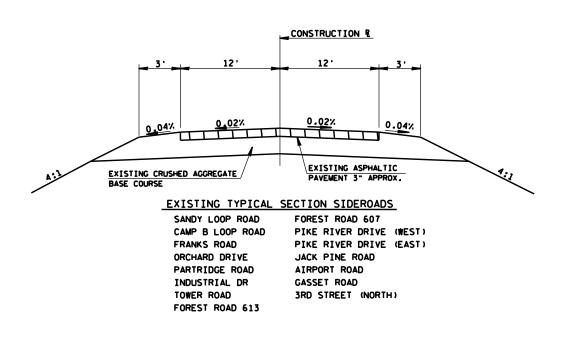




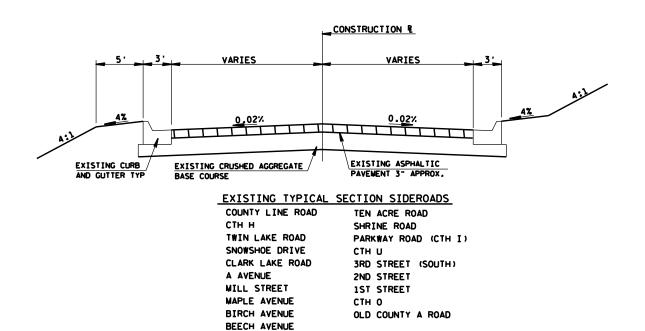


STA 571+41.9 - 593+03.1 RT STA 571+41.9 - 590+71.4 LT





HWY: USH 8

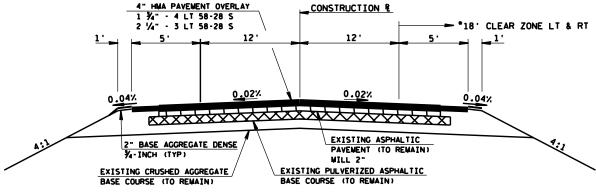


TYPICAL CROSS SECTIONS

COUNTY: MARINETTE

SHEET

Ε



FINISHED TYPICAL SECTION FOR USH 8

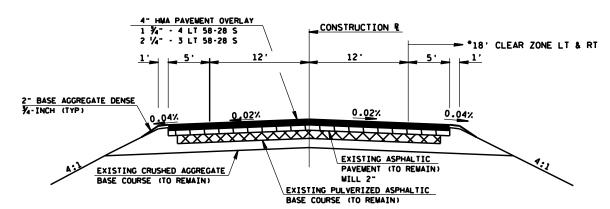
STA 353+29.42 - 432+56

STA 702+18 - 1001+23

STA 1084+32 - 1108+26.6

NOTE: PREPARE FOUNDATION FOR ASPHALTIC PAVING LIMTS EXTEND TO THE OUTSIDE OF PROPOSED PAVED SHOULDER

\*32.6' CLEAR ZONE STA 749+35 - 774+25 STA 903+00 - 1001+23

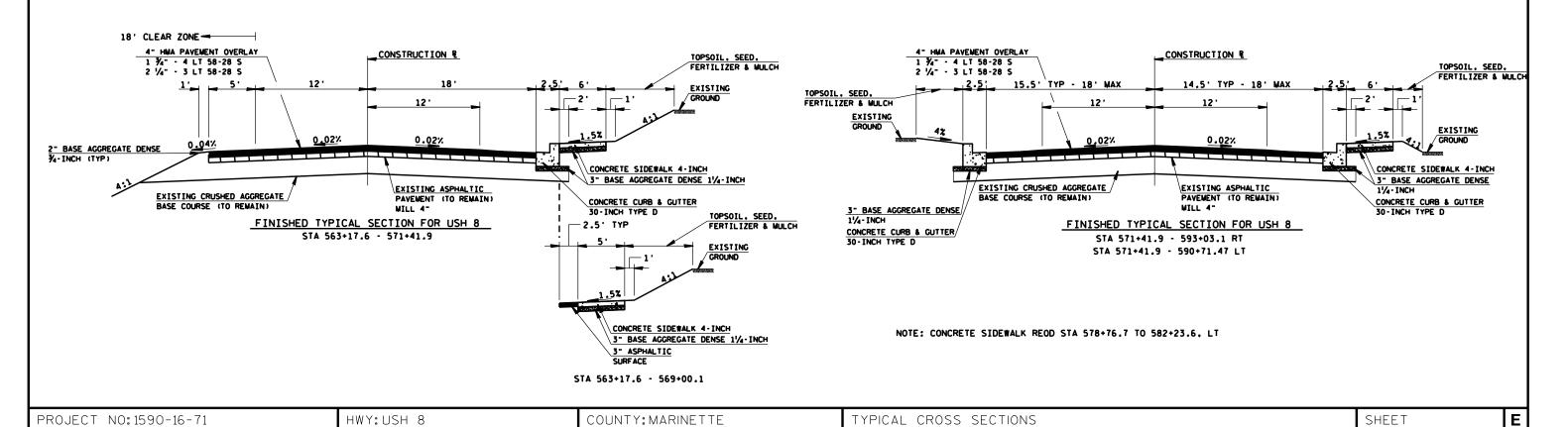


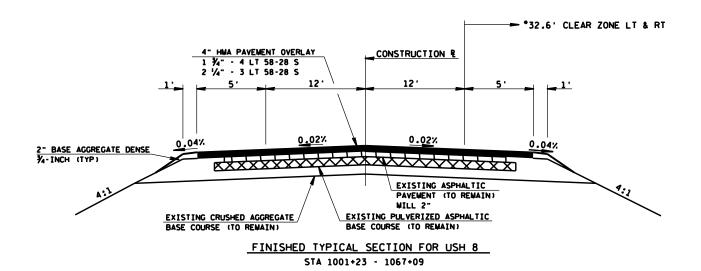
FINISHED TYPICAL SECTION FOR USH 8
STA 432+56 - 563+17.6

STA 590+71.4 - 645+14 LT STA 593+03.1 - 645+14 RT STA 645+14 - 702+18

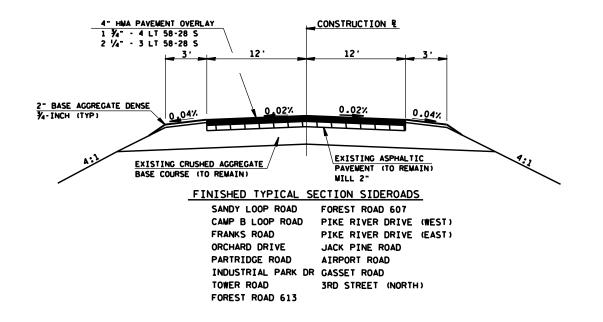
\*32.6' CLEAR ZONE STA 508+50 - 545+90 STA 590+71.4 - 645+15 LT STA 593+03 - 645+15 RT

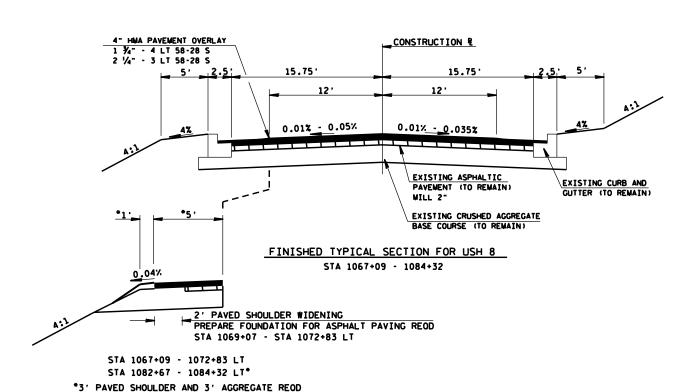
NOTE: TRANSITION REMOVING ASPHALTIC SURFACE MILLING DEPTH FROM 2" AT STA 562+17.6 TO 4" AT STA 563+17.6 AND FROM 4" AT STA 593+03.1 TO 2" AT STA 594+03.1

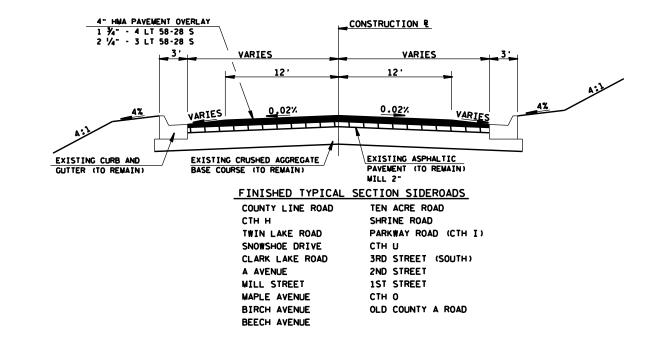




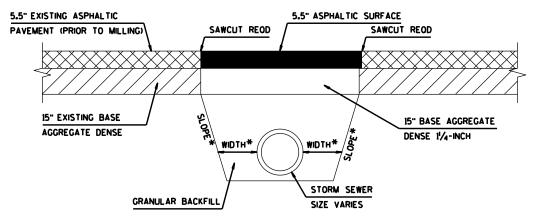
NOTE: PREPARE FOUNDATION FOR ASPHALTIC PAVING LIMTS EXTEND TO THE OUTSIDE OF PROPOSED PAVED SHOULDER





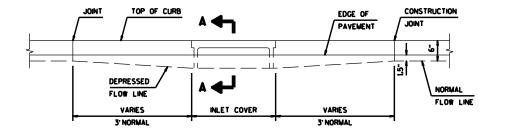


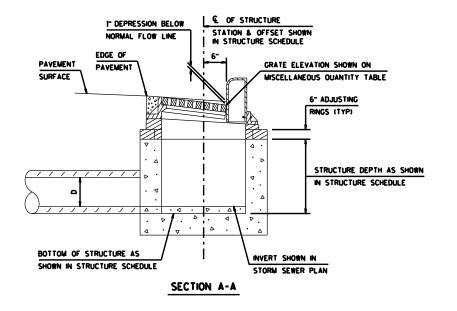
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#### STORM SEWER REMOVAL AND/OR REPLACEMENT

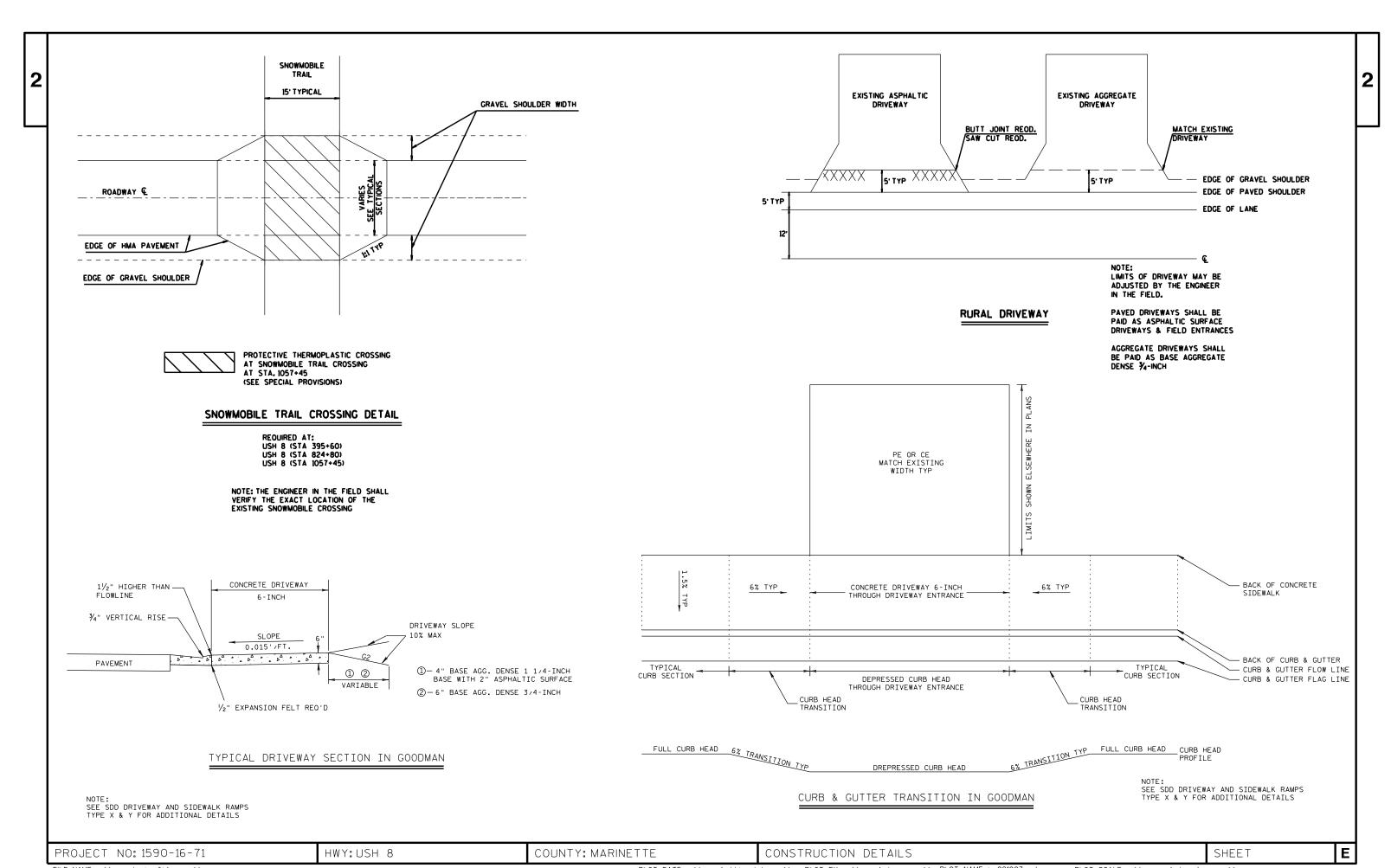
\*SEE STANDARD SPECIFICATIONS

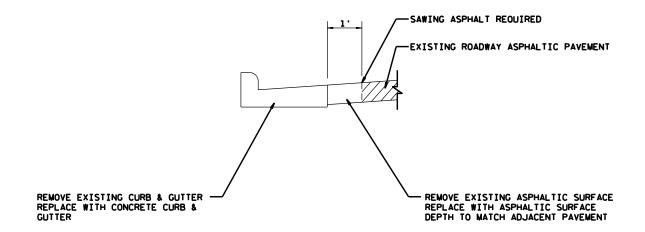


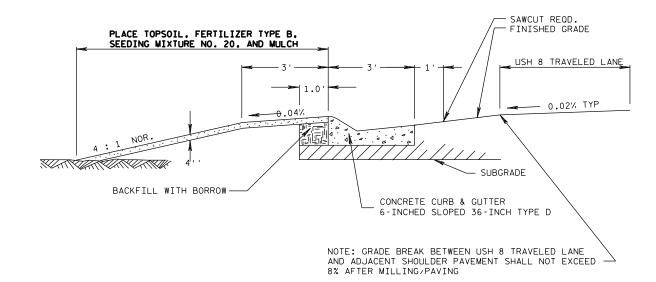


#### DETAIL OF CURB AND GUTTER AT INLETS

1" ¢ STANDARD PIPE \_ 8" O.C. OR 1" ROD 3/4" Φ ROD OR PIPE 12" O.C. MAX. WELD 24" DRILL FOUR %6" -HOLES AS SHOWN AT EACH PIPE BOLT GRATE TO CONCRETE ENDWALL WITH FOUR 3/8" X 6" MACHINE BOLTS—PLACE NUTS INSIDE 6" X 4" X 1/4" ANGLES (4 REO'D.) - WELD TO FRAME PROVIDE %6" HOLE IN EACH . 8" MAX PIPE GRATES PROJECT NO: 1590-16-71 HWY: USH 8 COUNTY: MARINETTE CONSTRUCTION DETAILS E

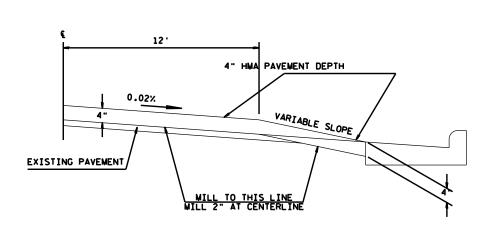




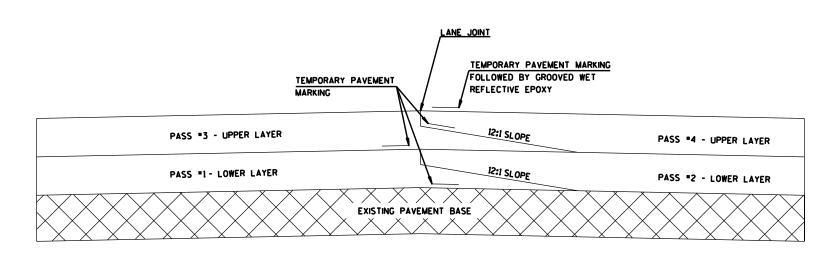


#### DETAIL FOR REMOVING AND REPLACING CURB & GUTTER

DETAIL FOR RURAL CURB & GUTTER REPLACEMENT

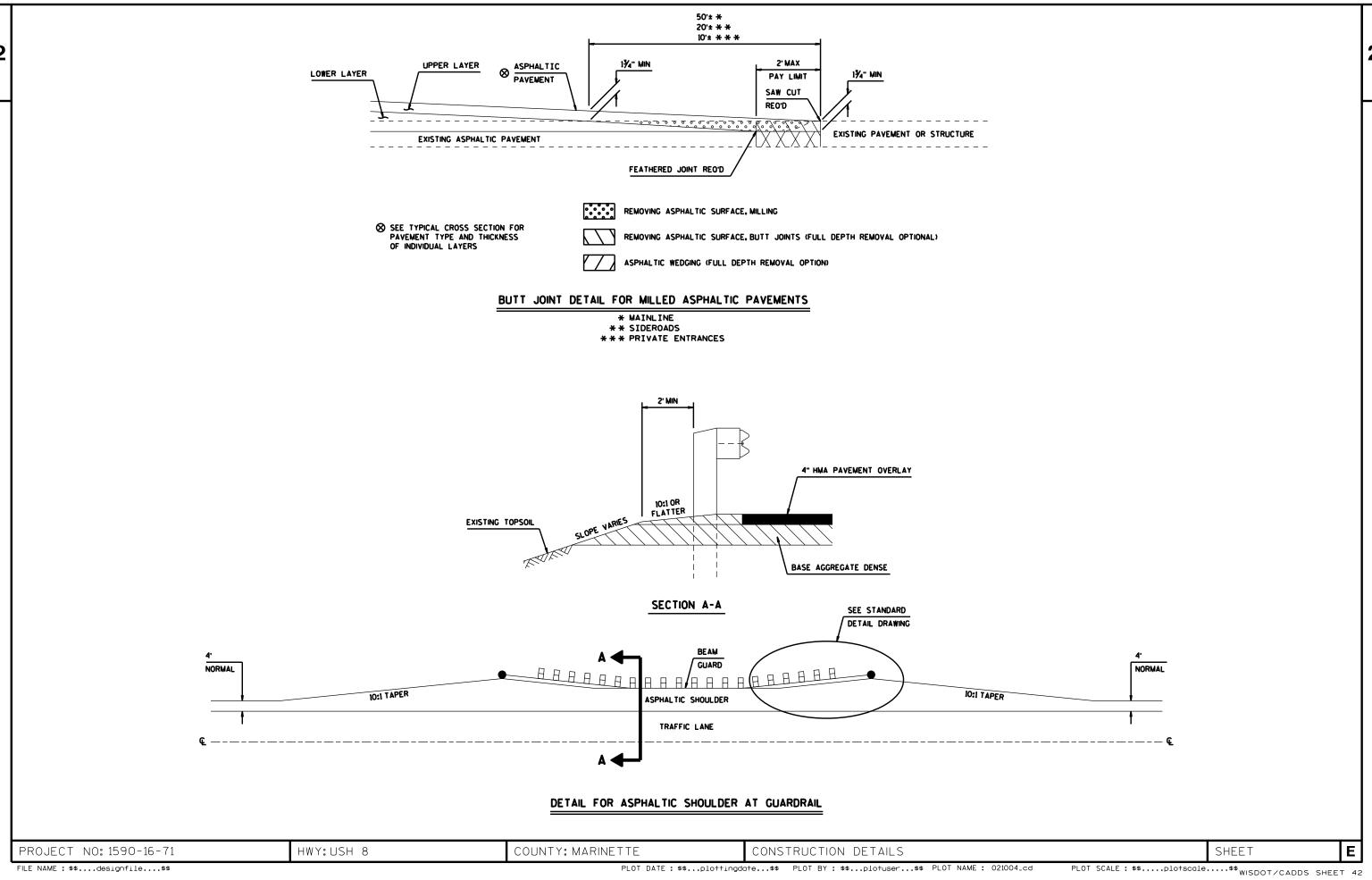




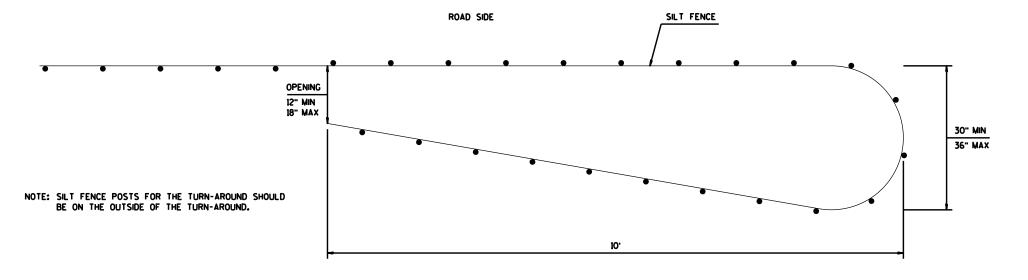


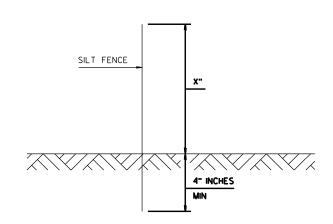
#### LOWER AND UPPER LAYERS

#### PAVEMENT MARKING DETAIL FOR TAPERED OVERLAPPING JOINTS IN ASPHALTIC PAVEMENTS



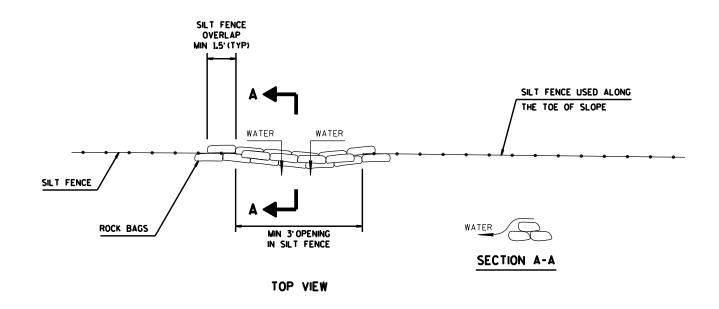






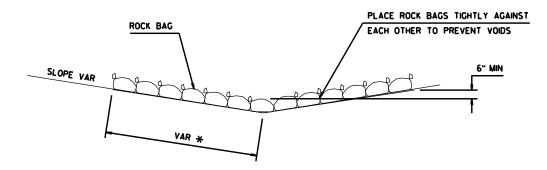
#### PLAN VIEW

#### SILT FENCE TURN-AROUND DETAIL

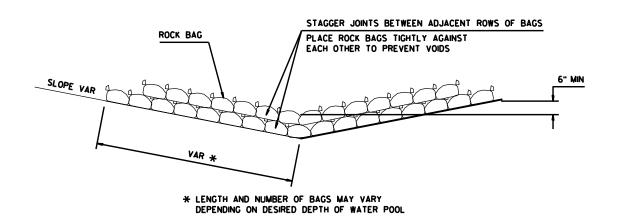


#### ROCK BAGS USED FOR SILT FENCE RELIEF DETAIL

PAID AS ROCK BAGS

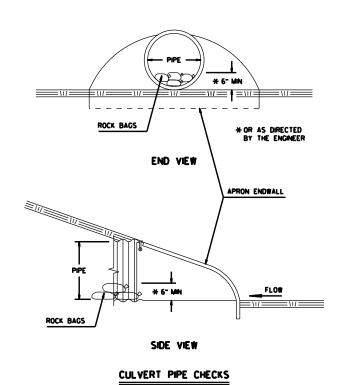


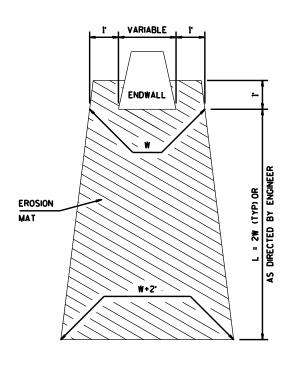
SIDE VIEW (SINGLE LAYER)



SIDE VIEW (MULTIPLE LAYER)

PAID AS DITCH CHECKS

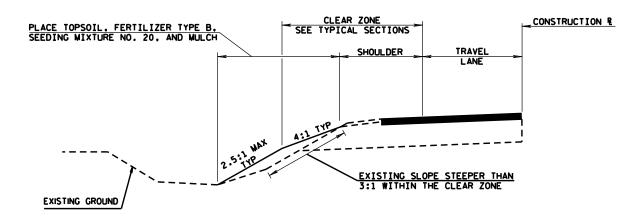




EROSION MAT TREATMENT AT CULVERTS

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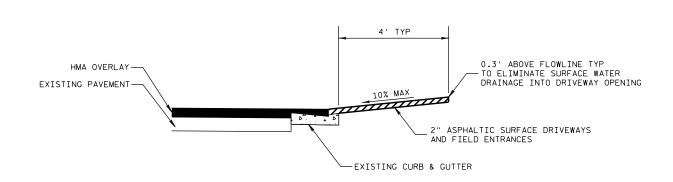
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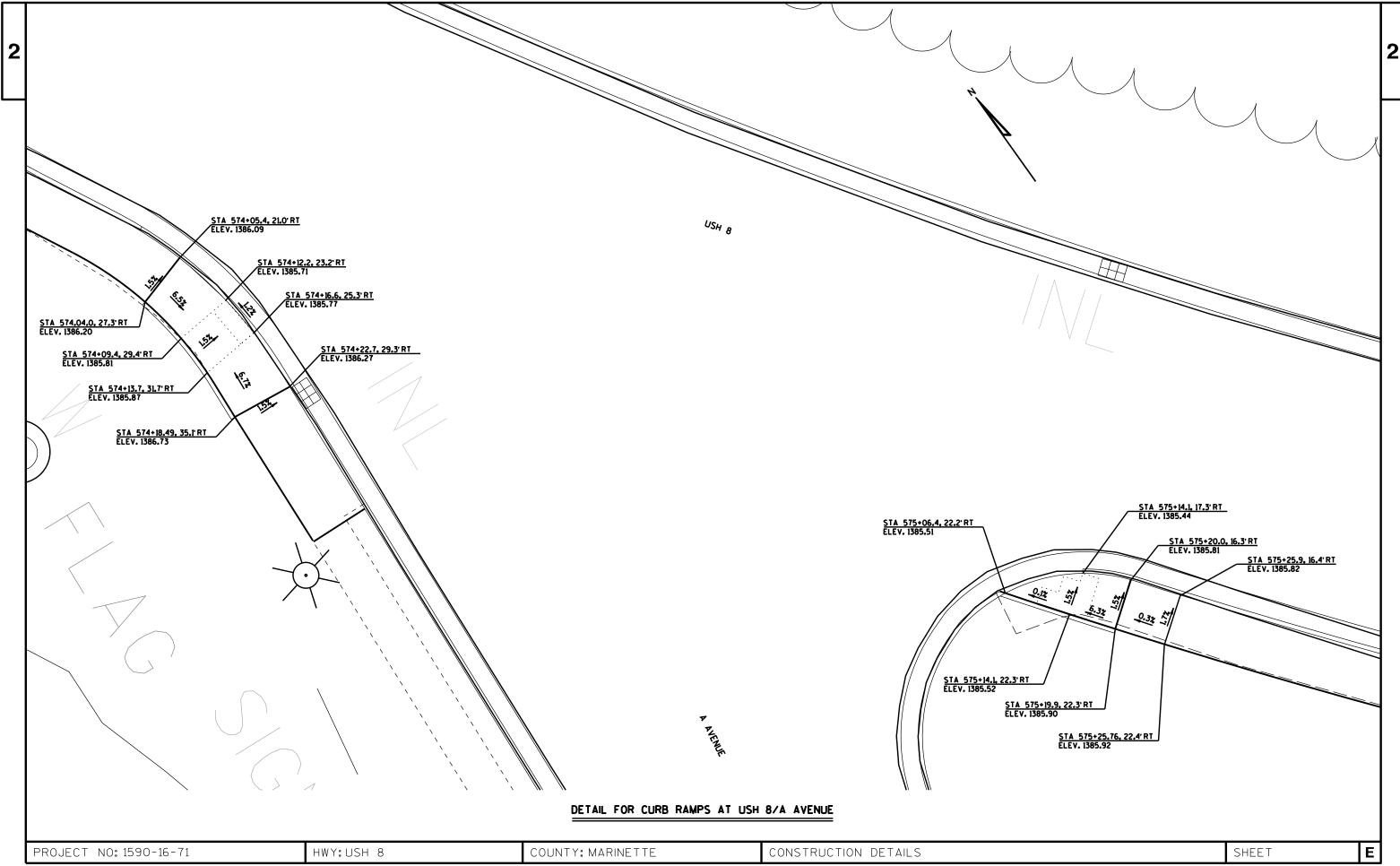
TYPICAL HALF SECTION OF STEEP SLOPES

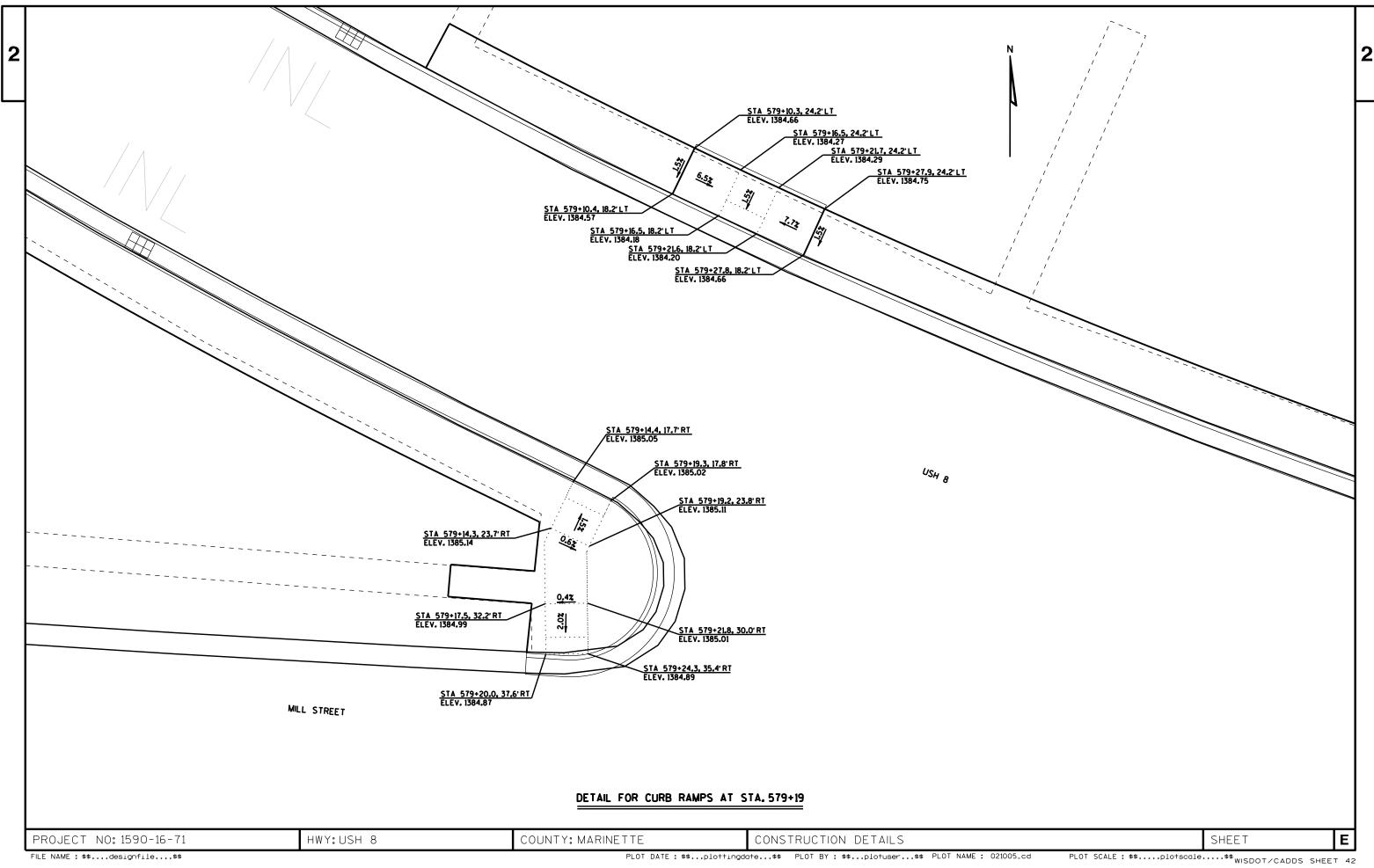
#### DETAIL FOR SLOPE FLATTENING

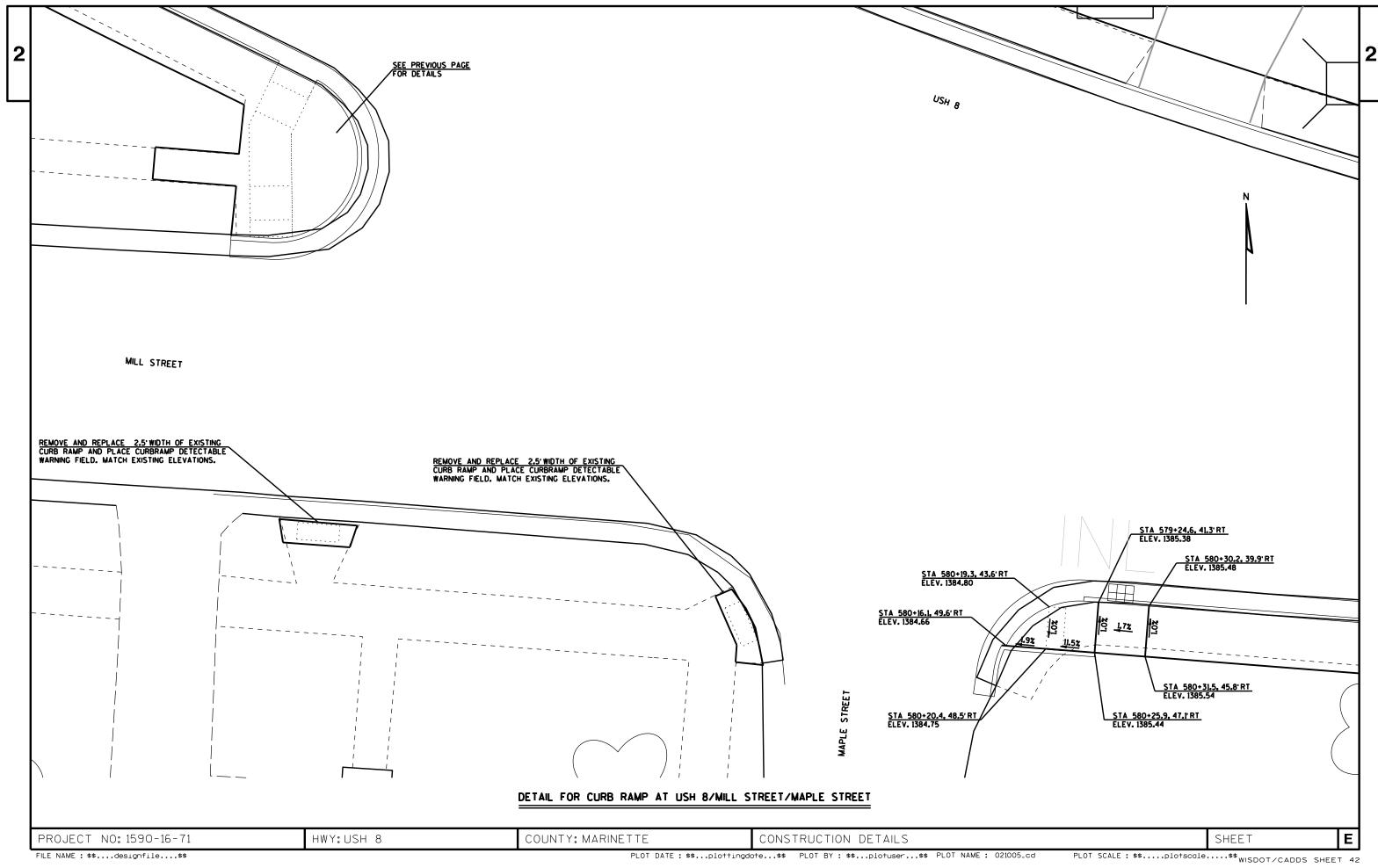
SEE CROSS SECTIONS FOR ADDITIONAL DETAILS

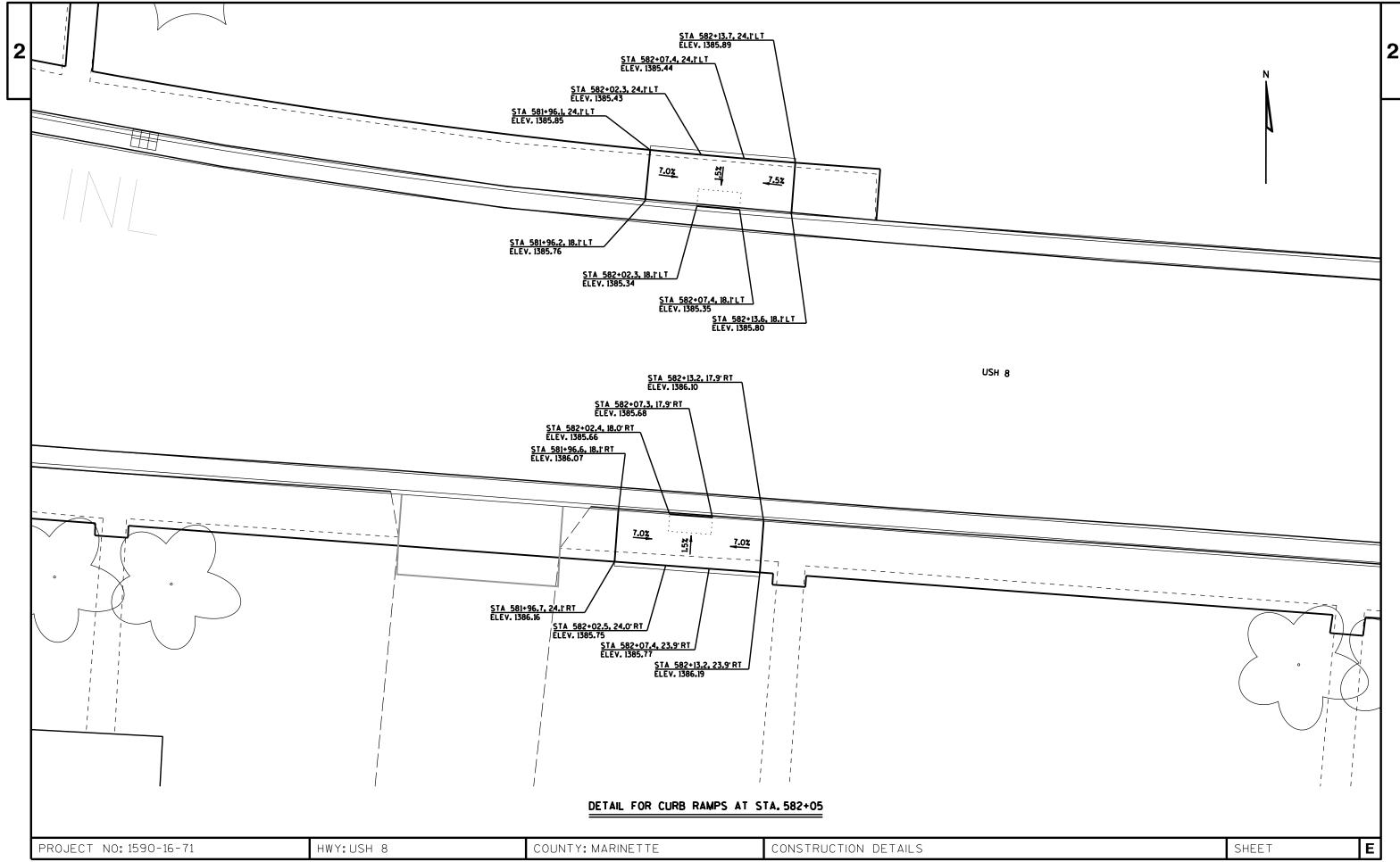


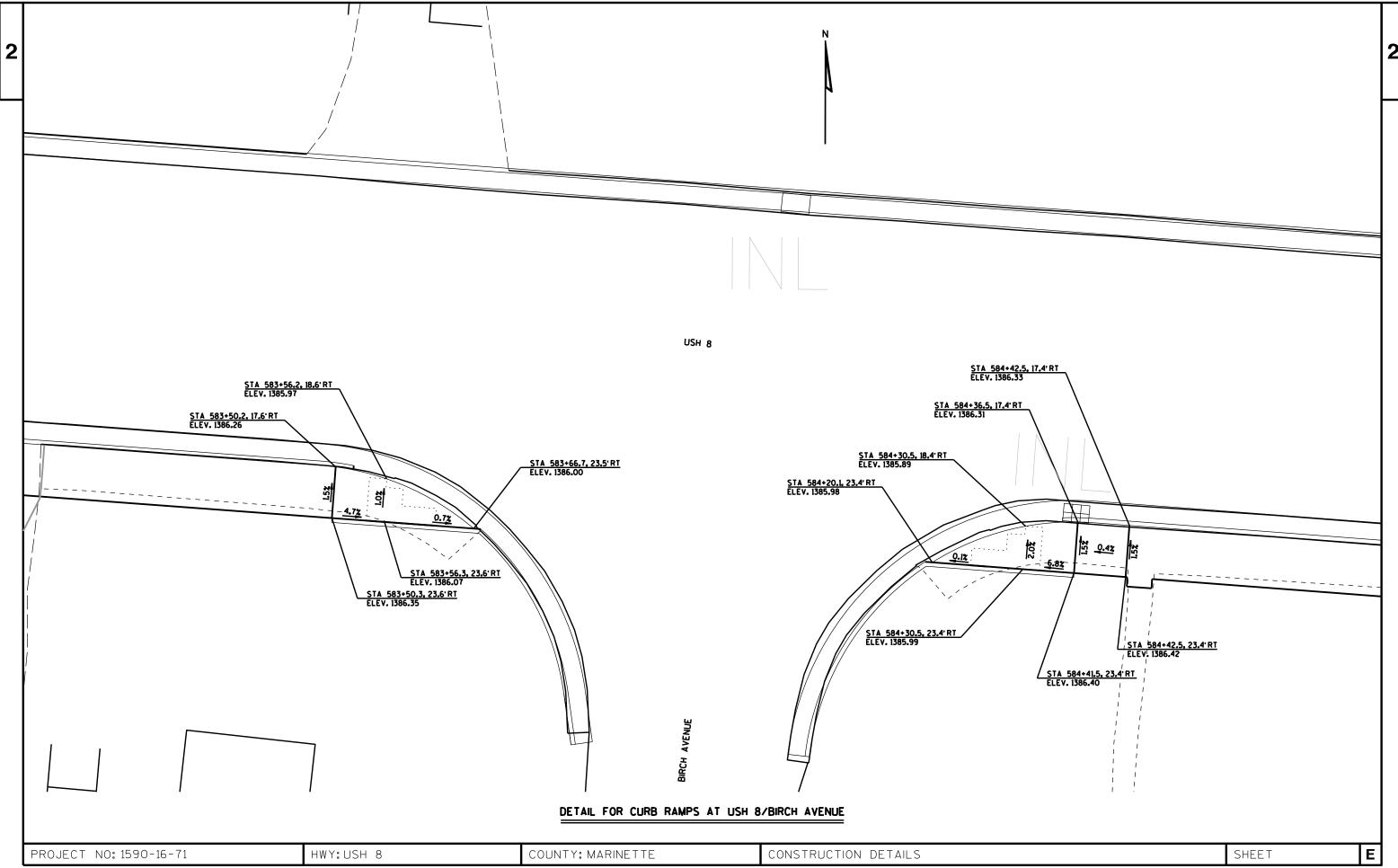
DRIVEWAY APRON FOR EXISTING AGGREGATE DRIVEWAYS USH 8, LT IN DUNBAR

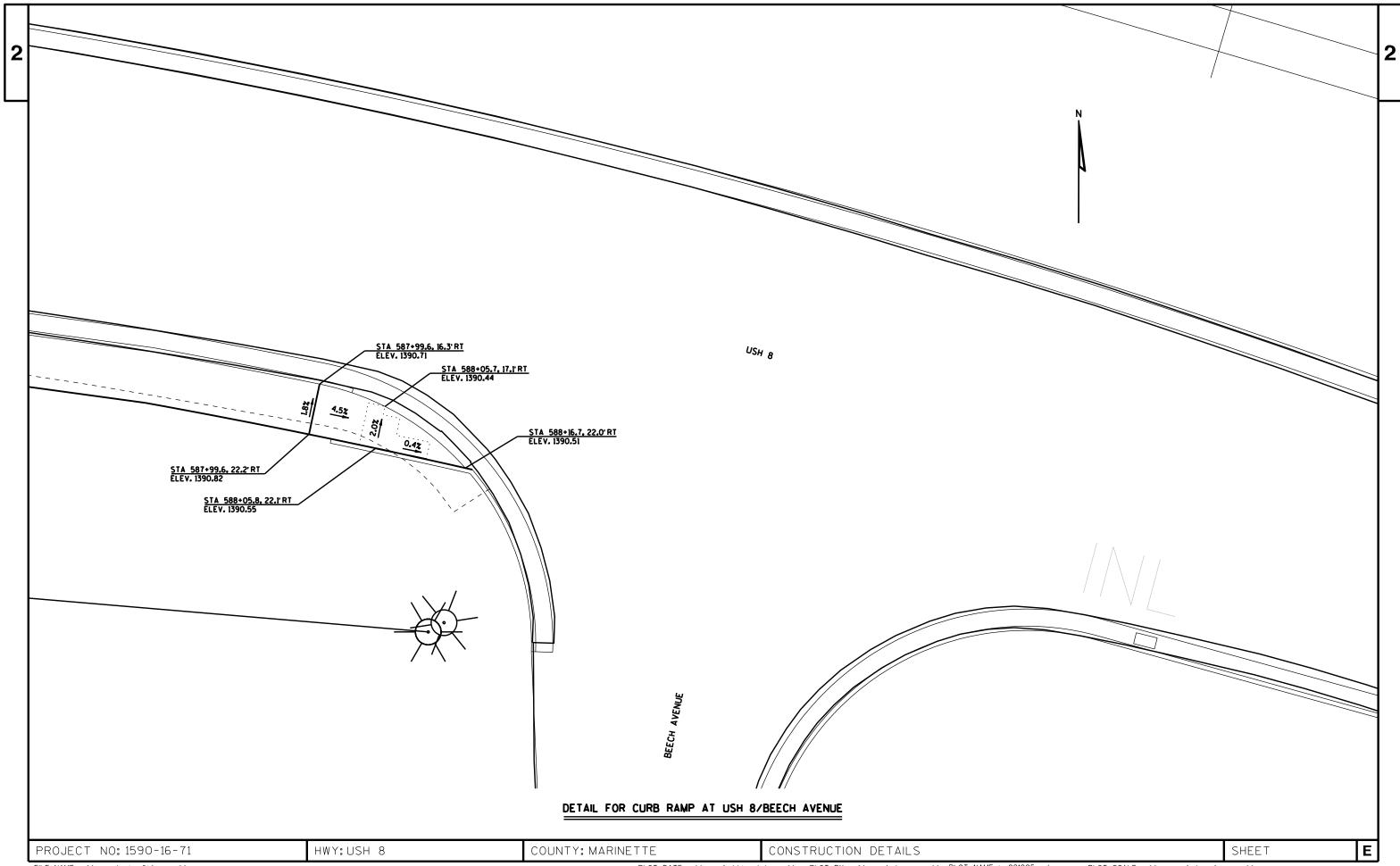


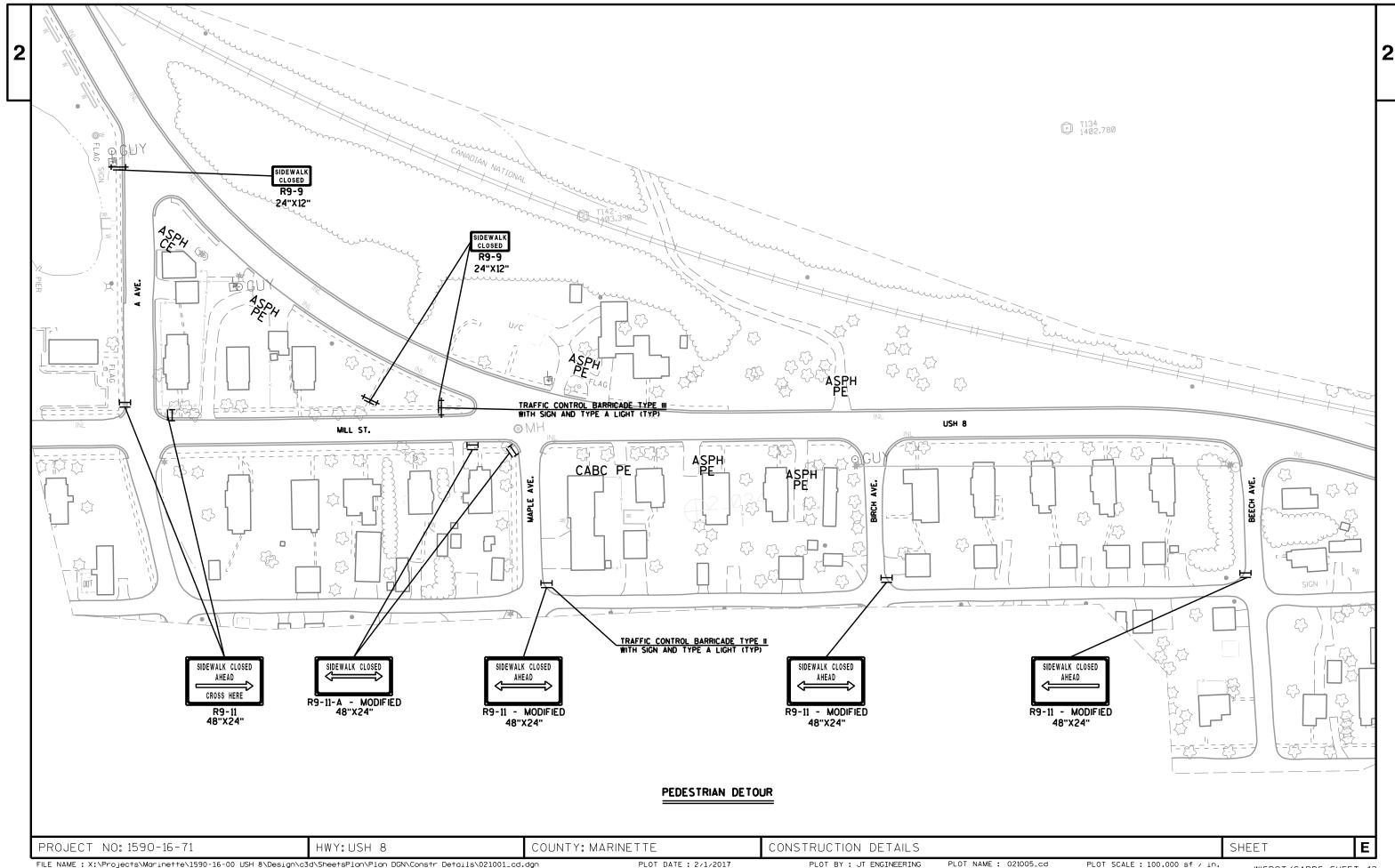


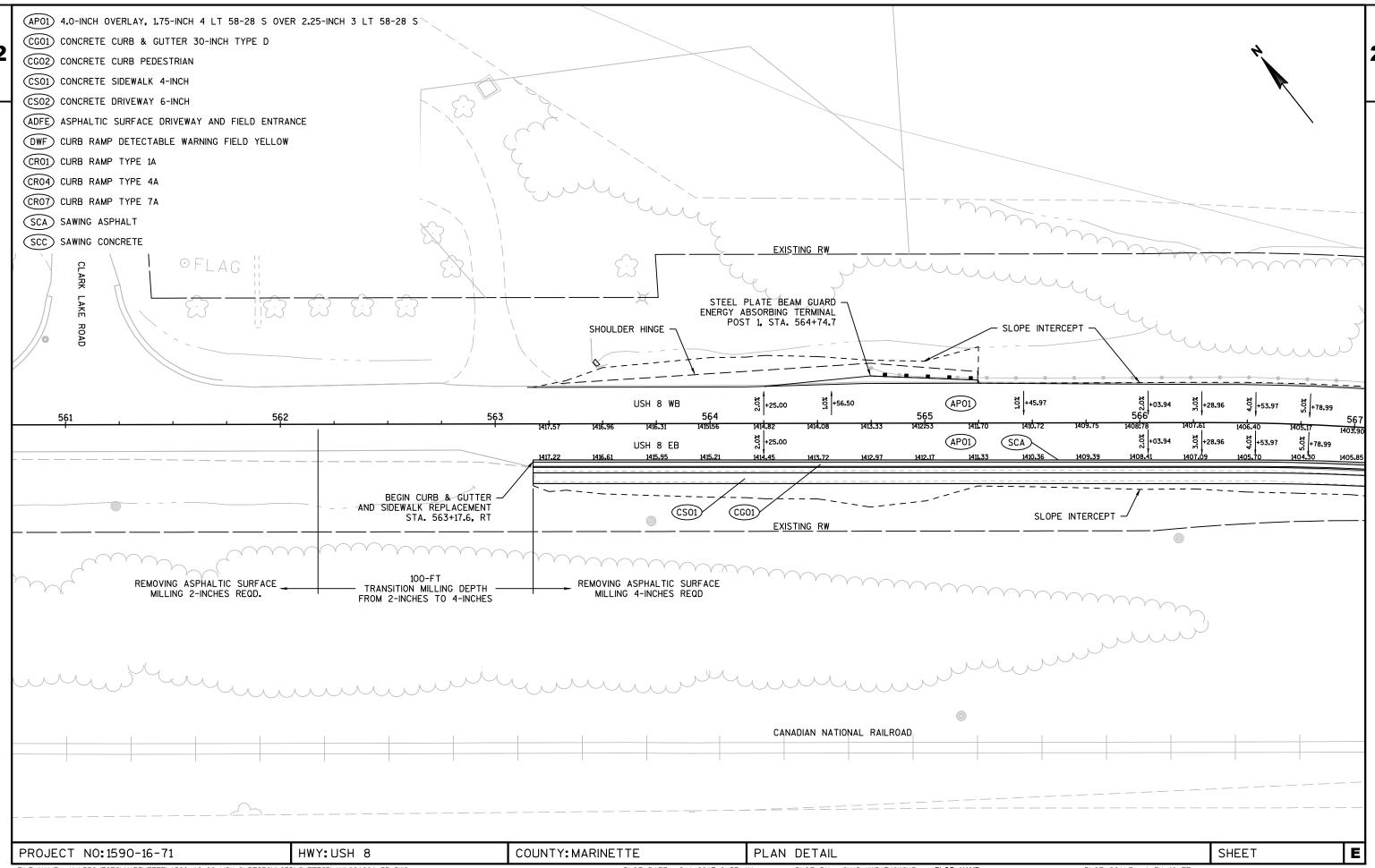


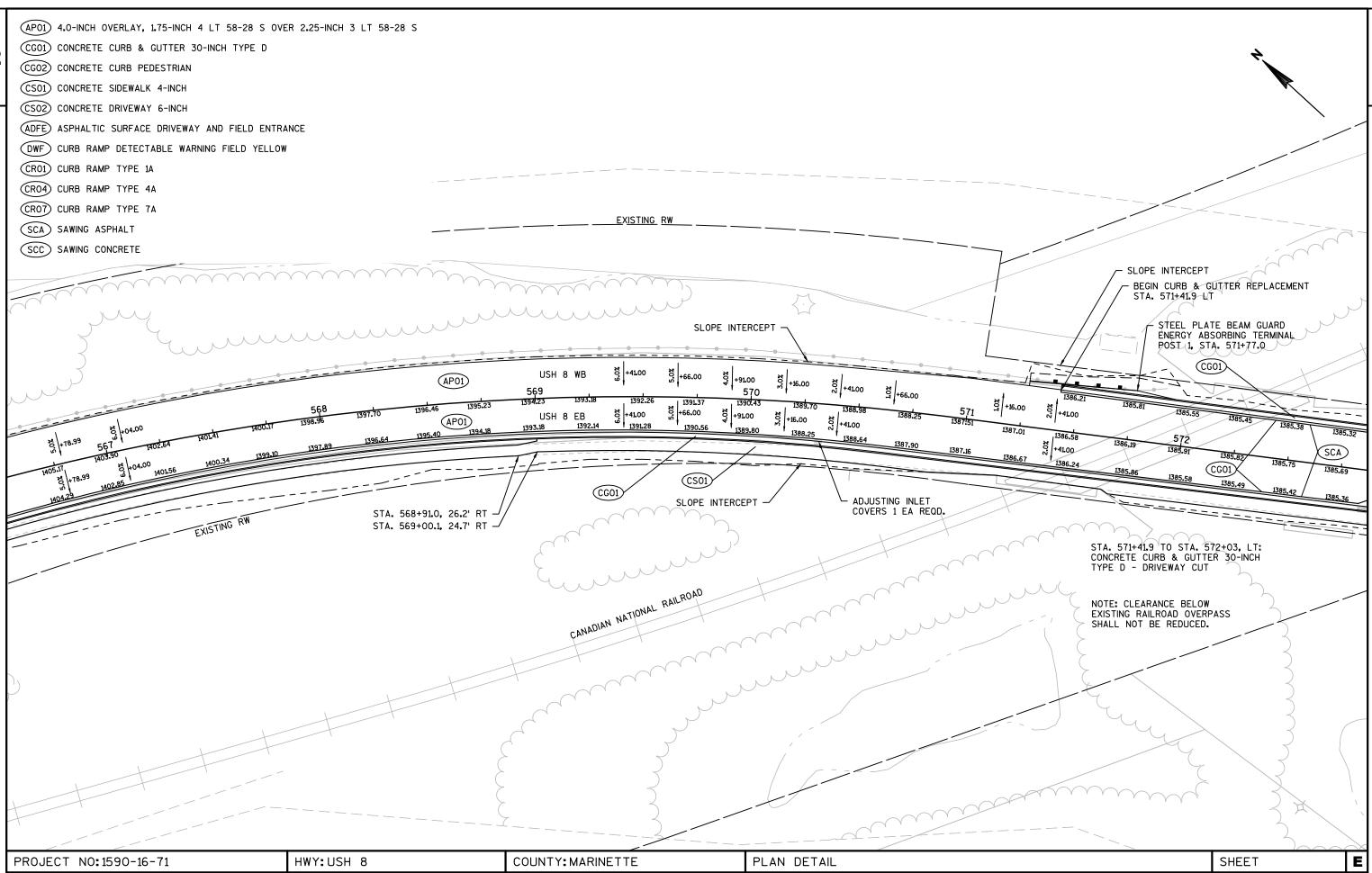


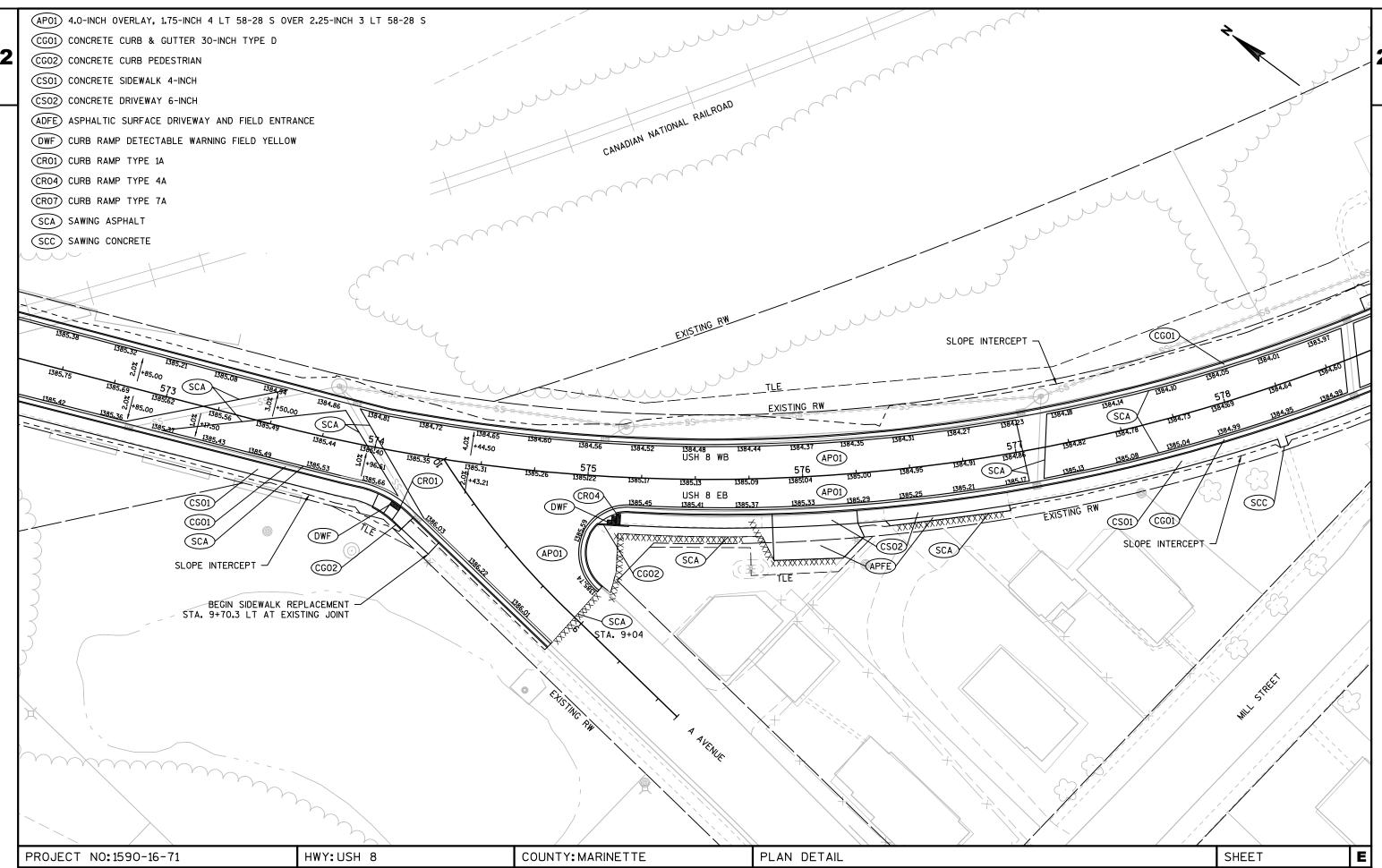


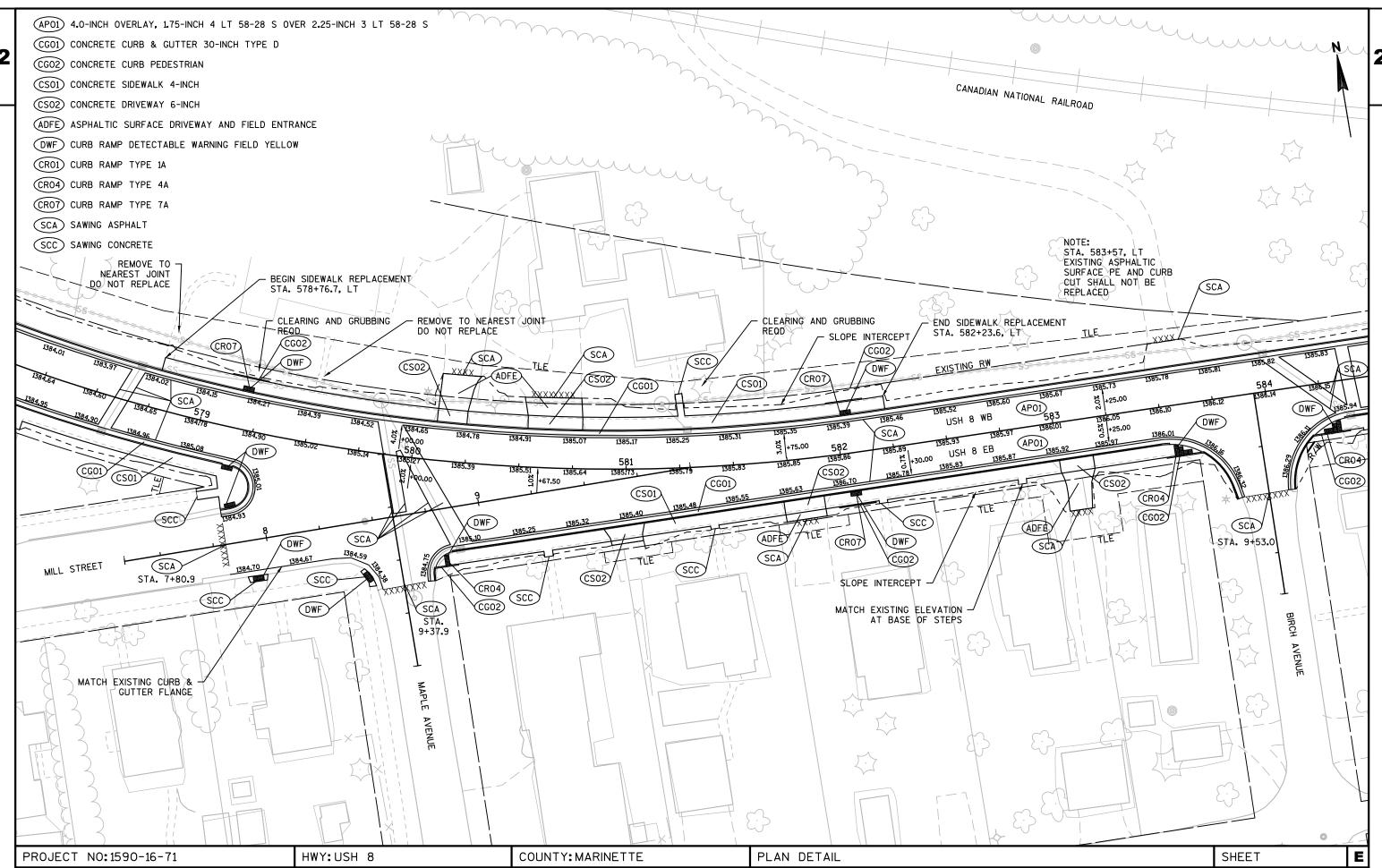


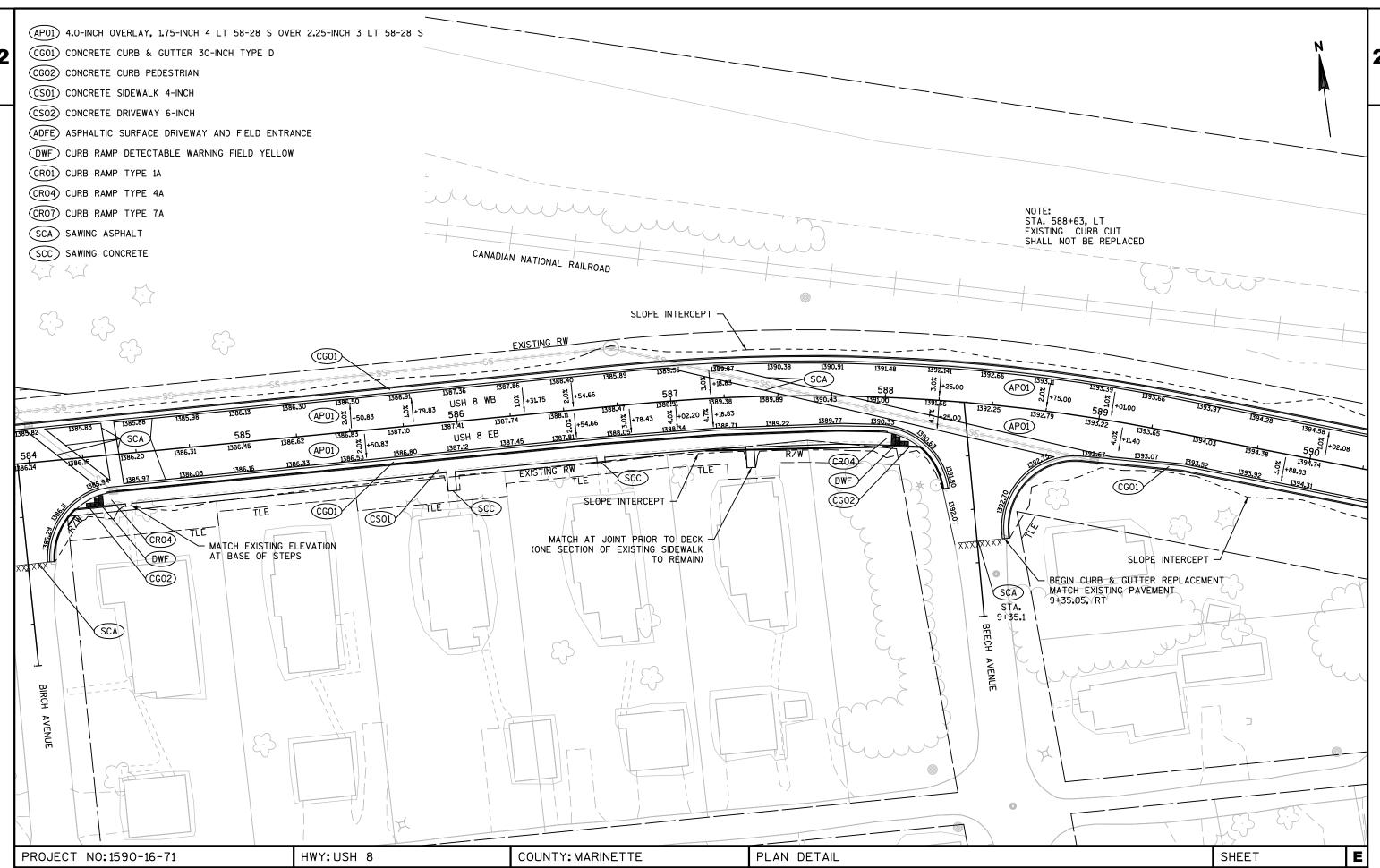


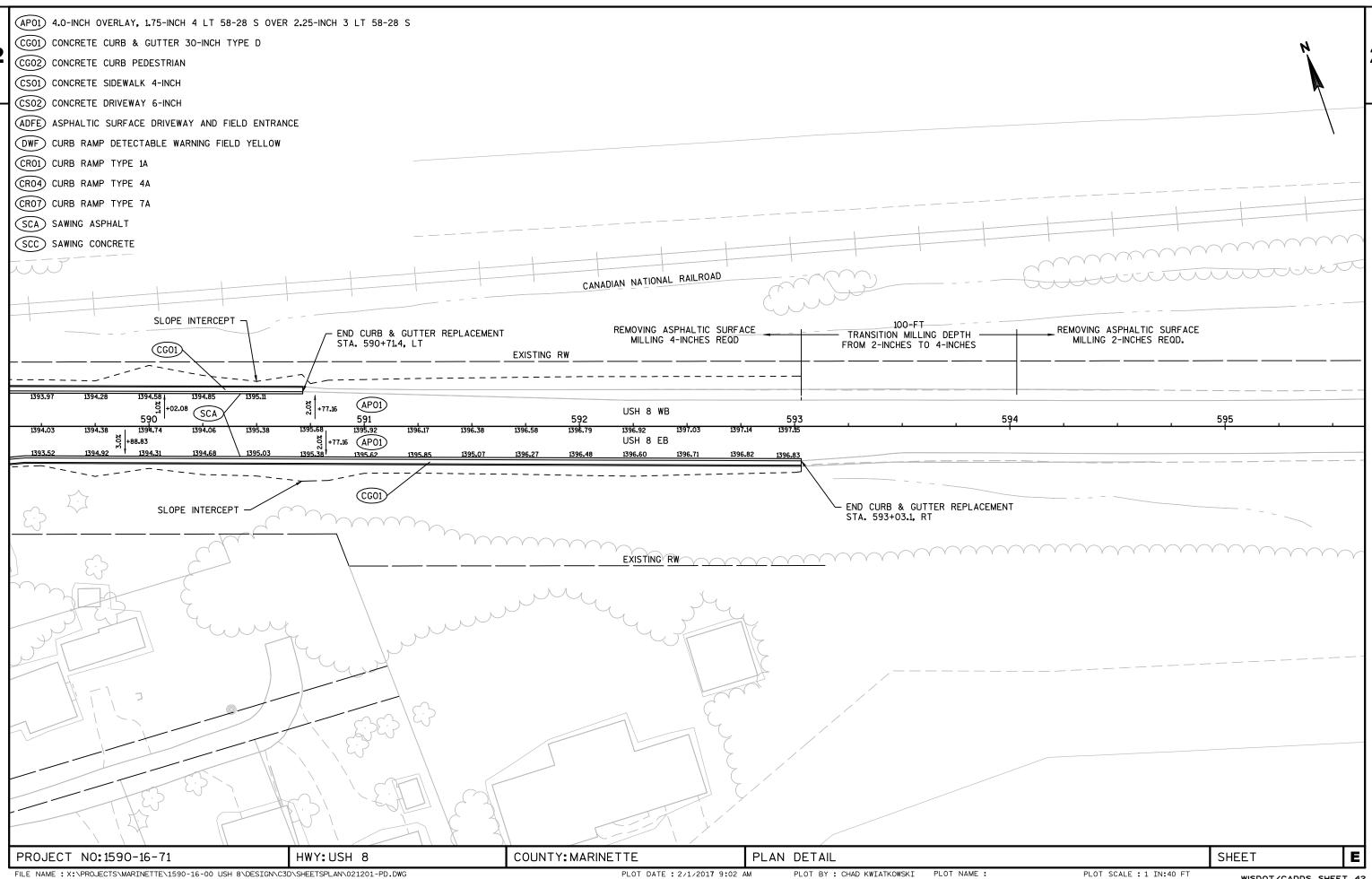


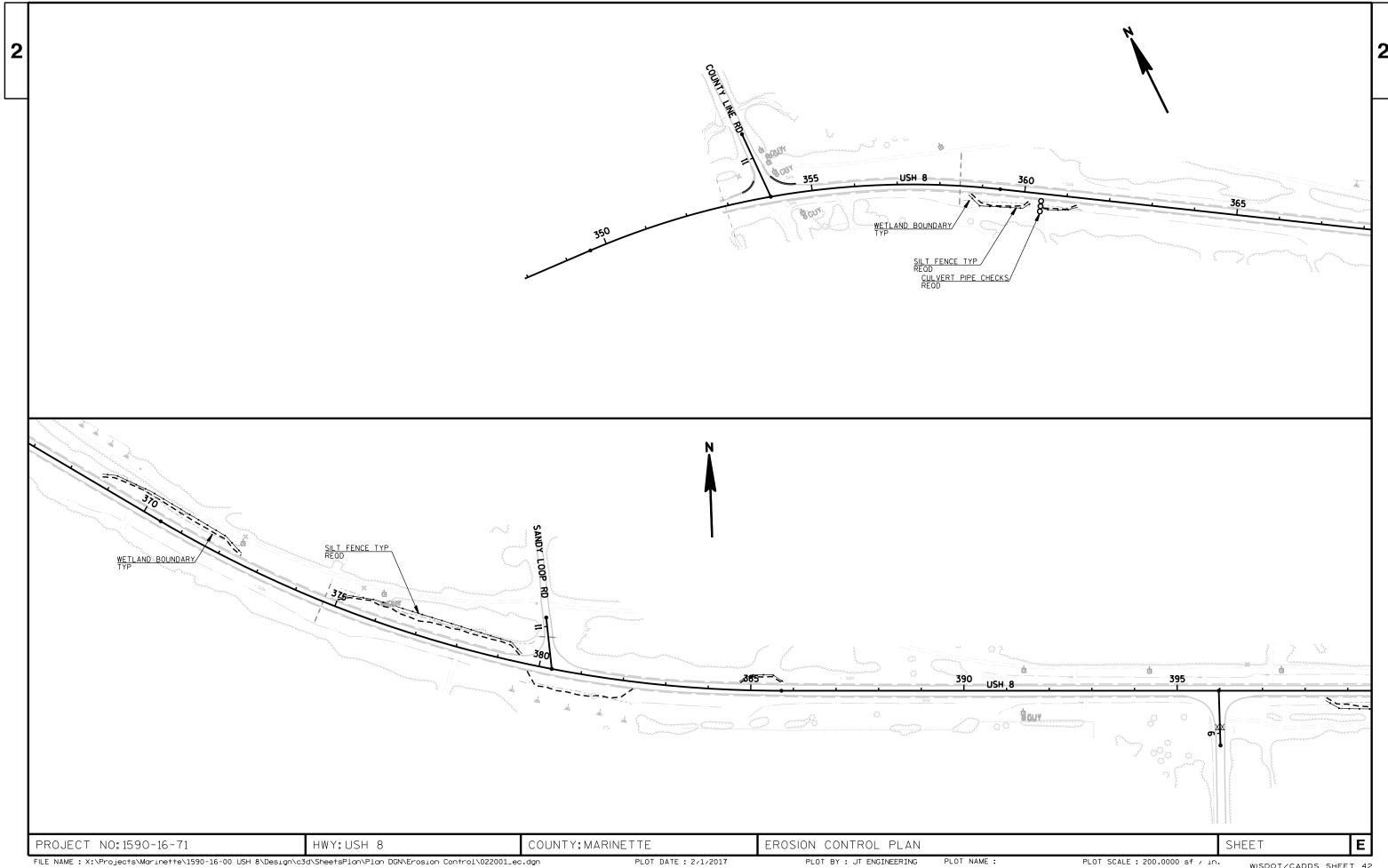


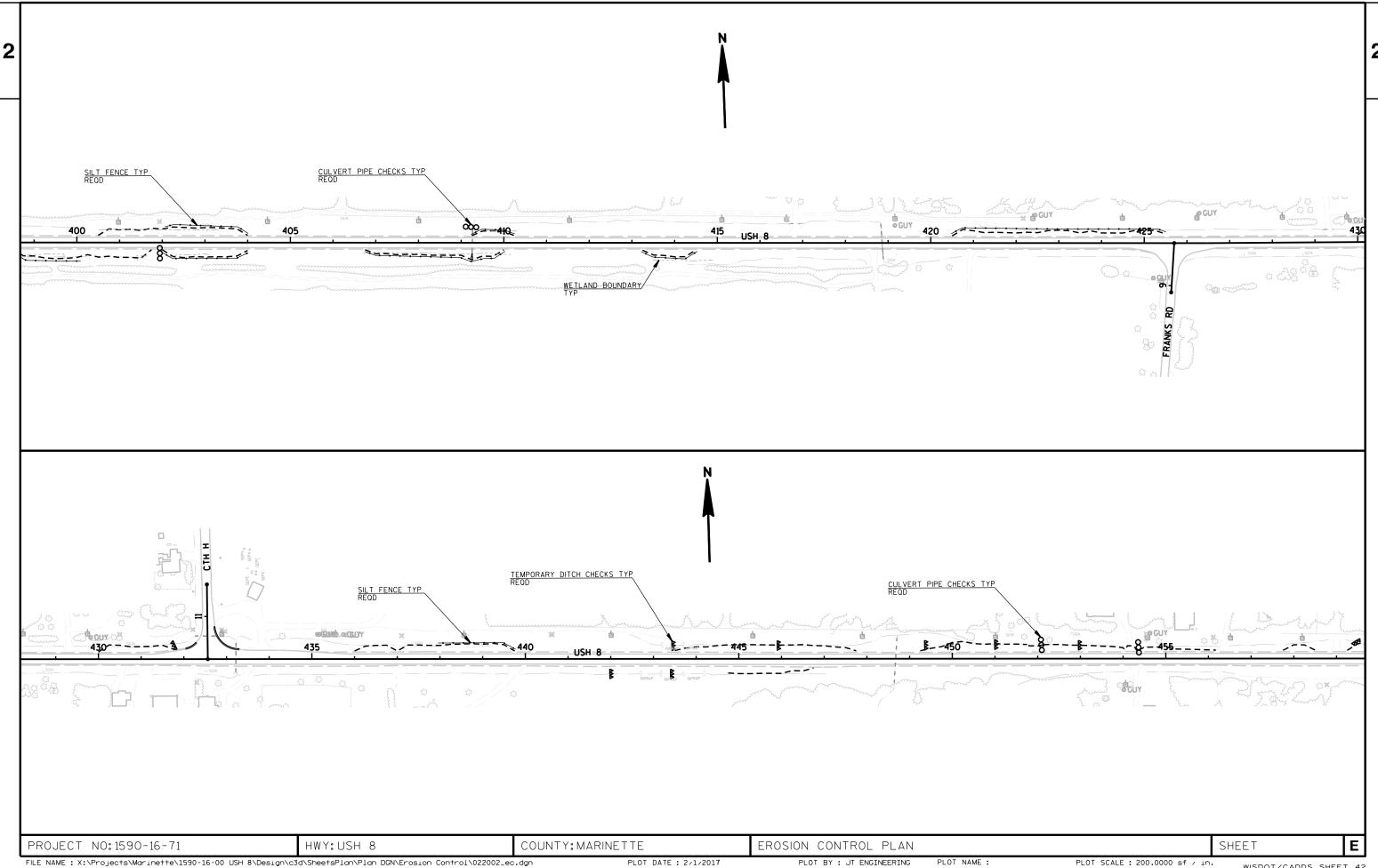


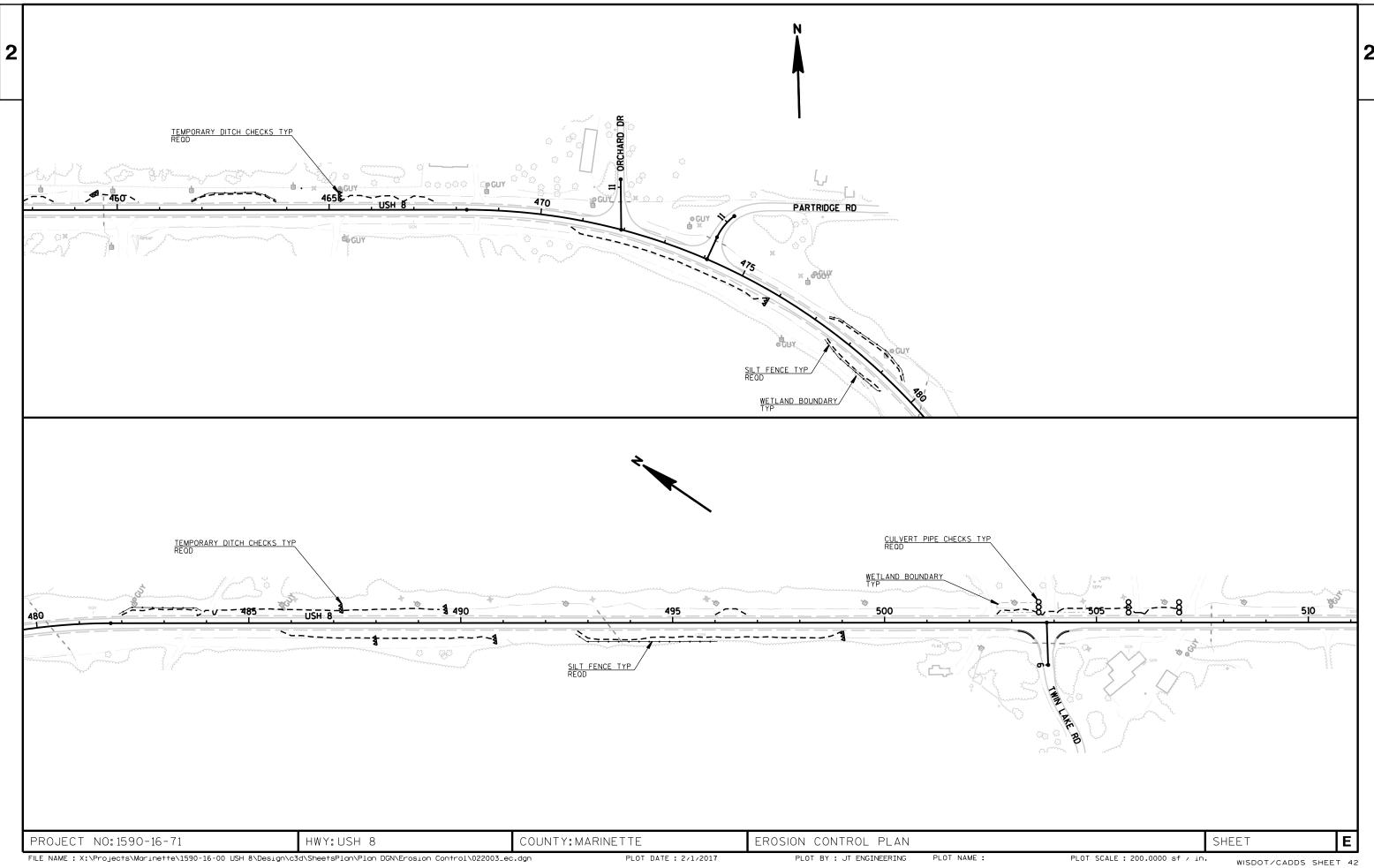


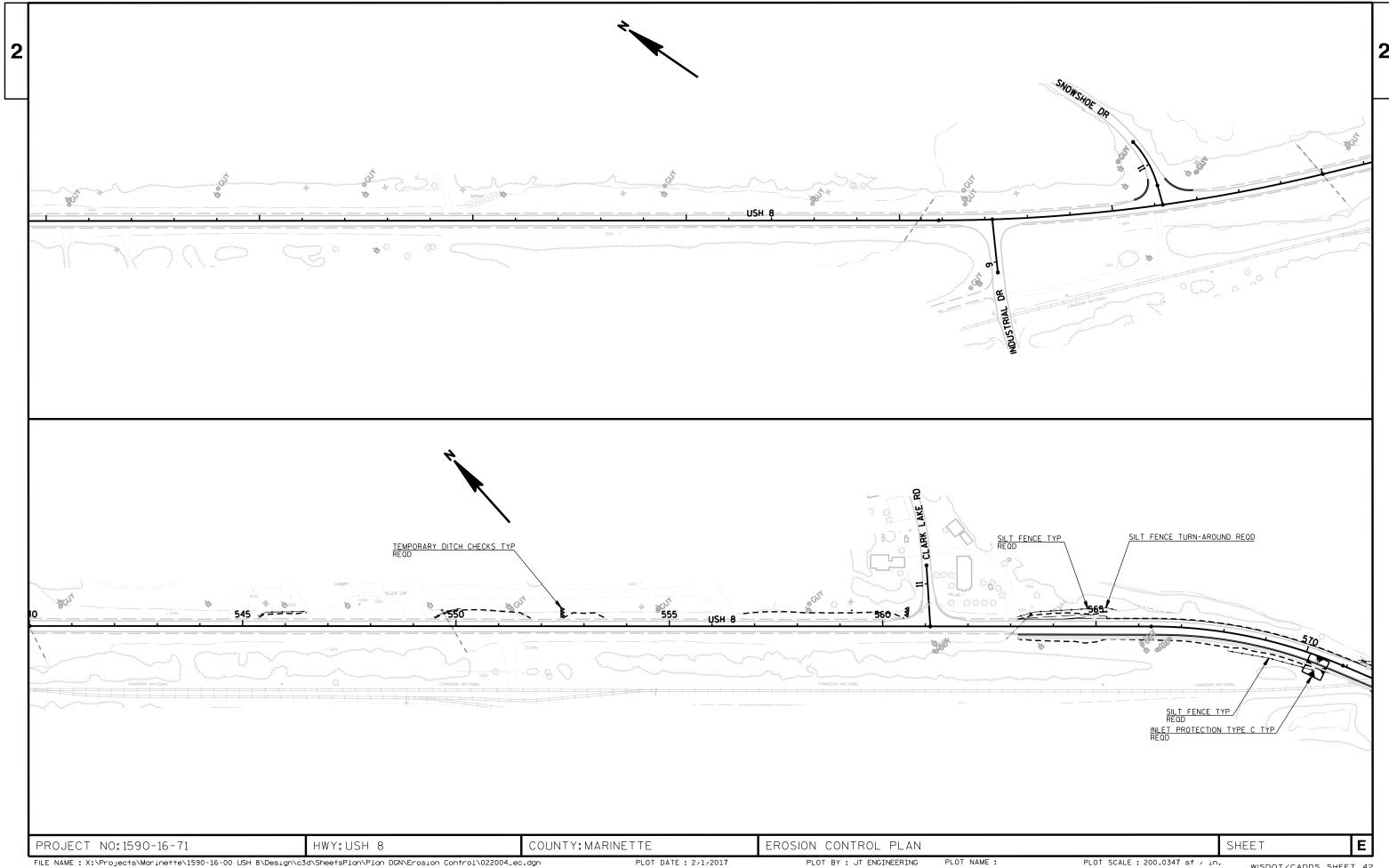


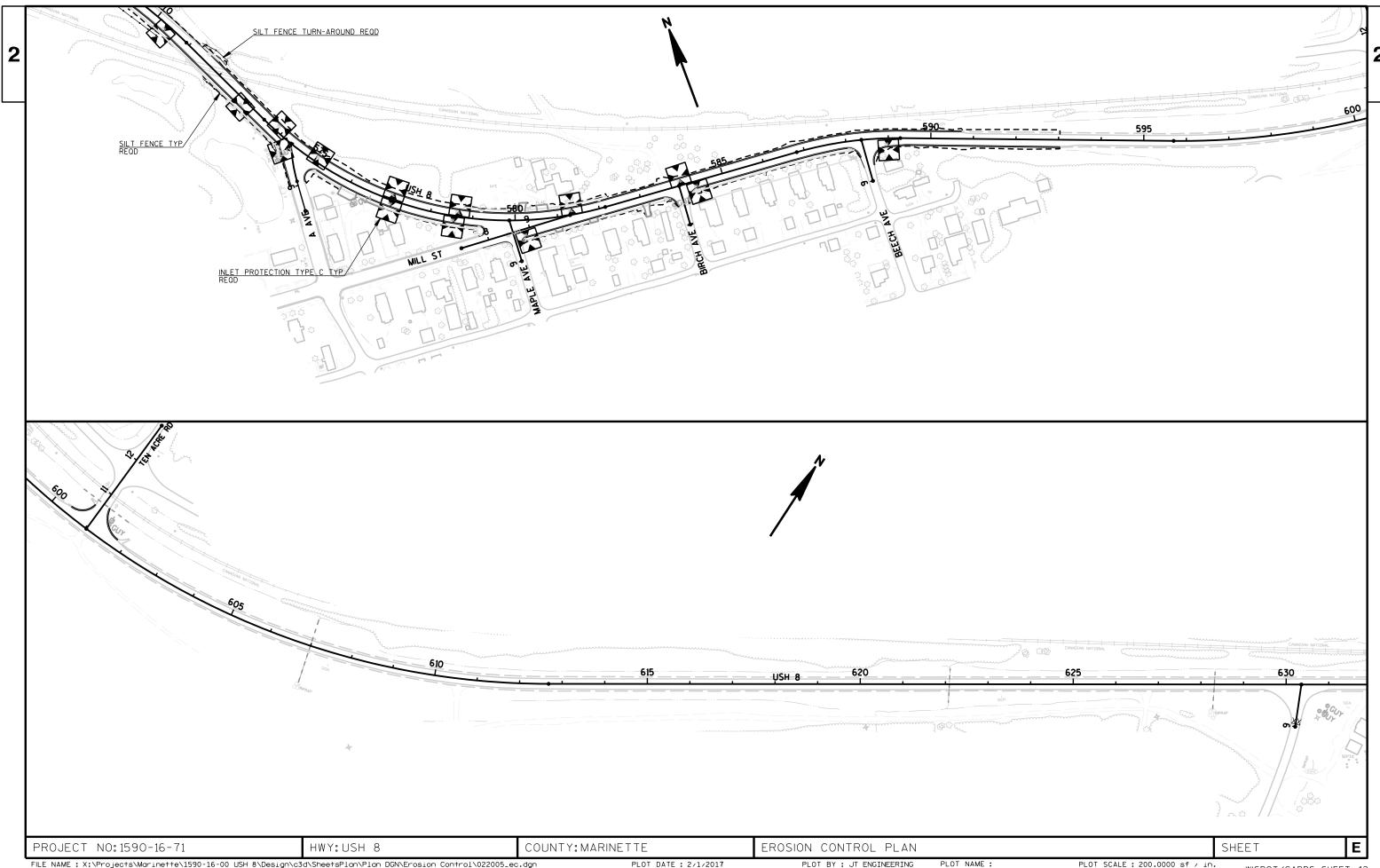


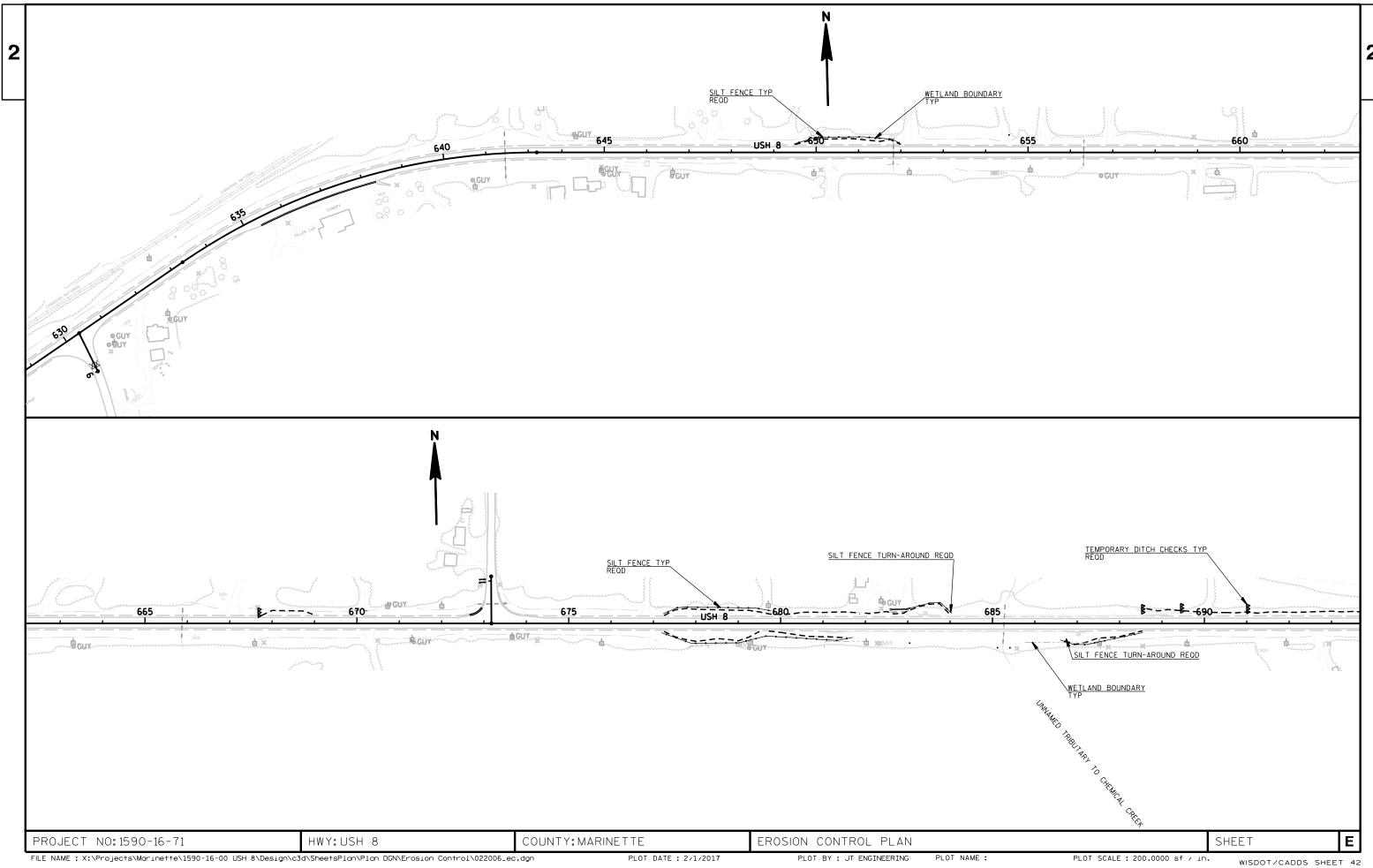


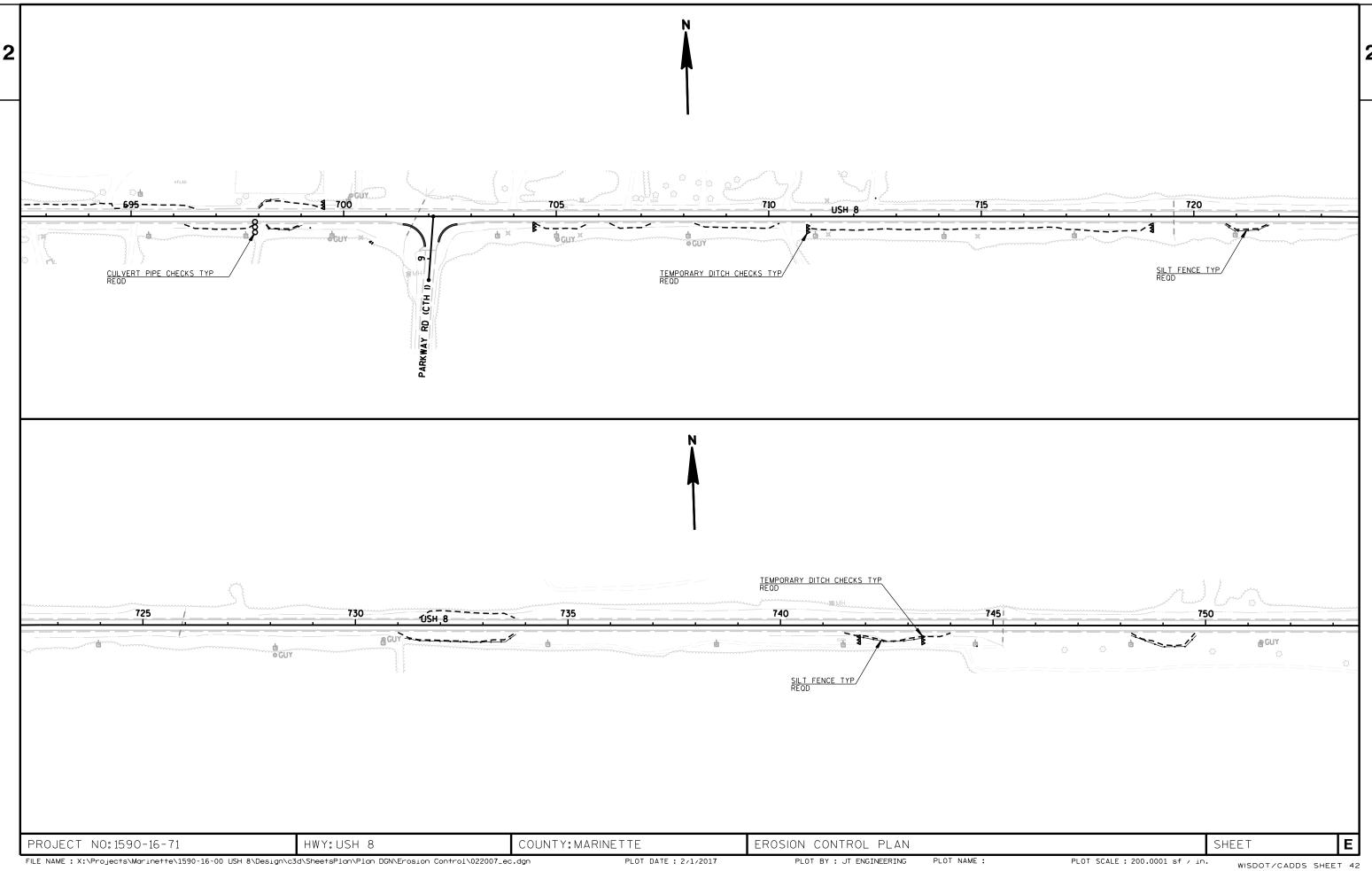


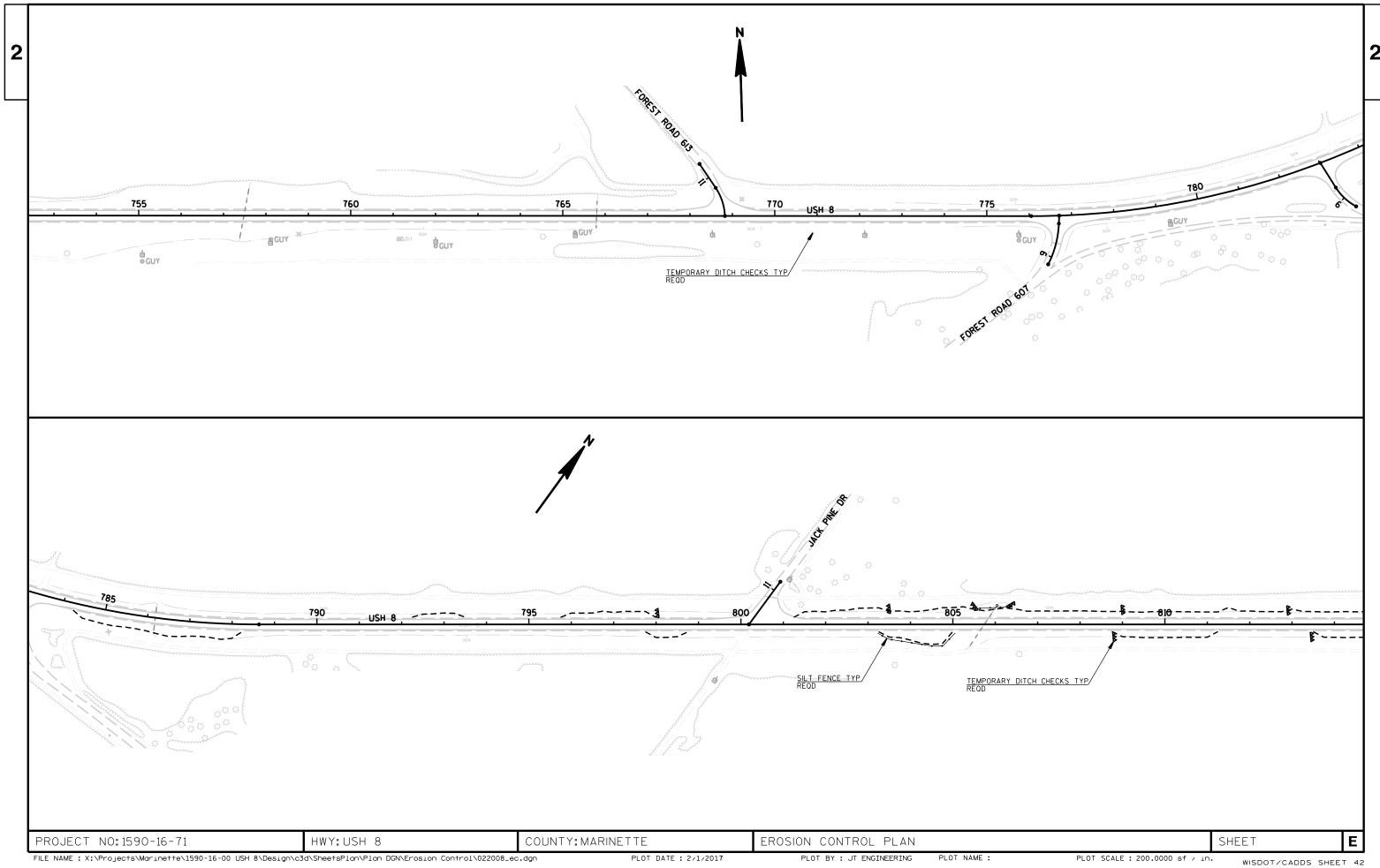


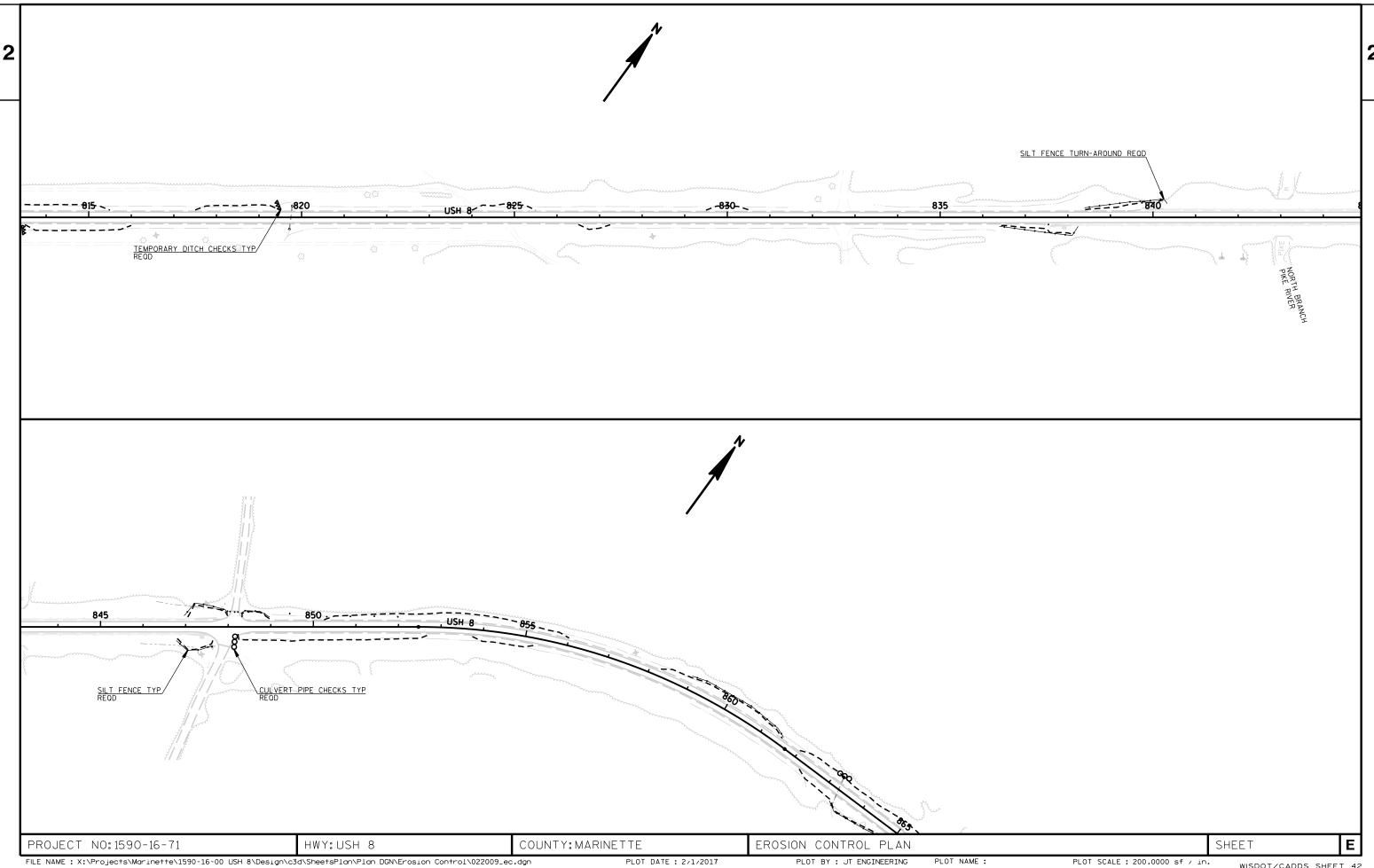


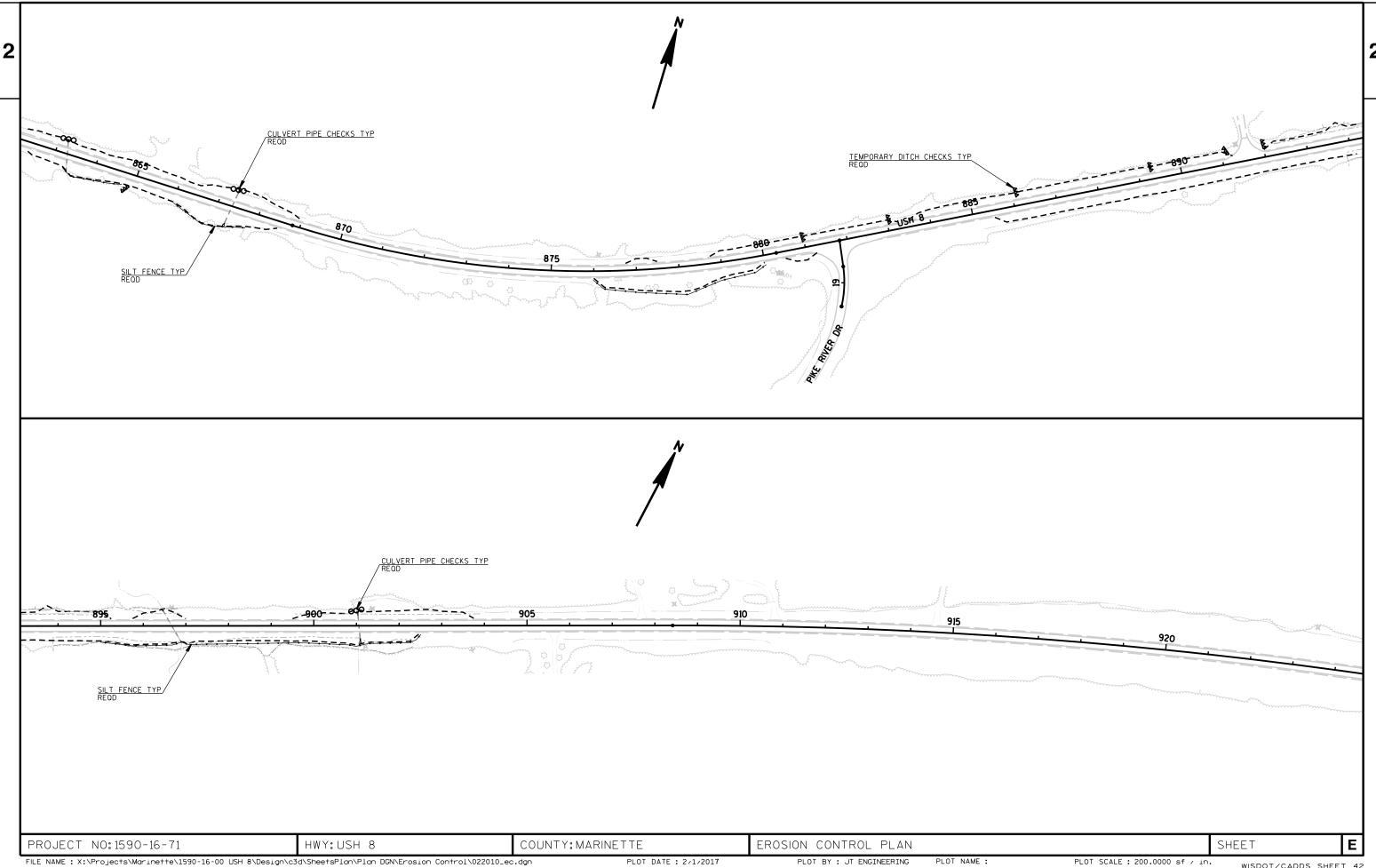


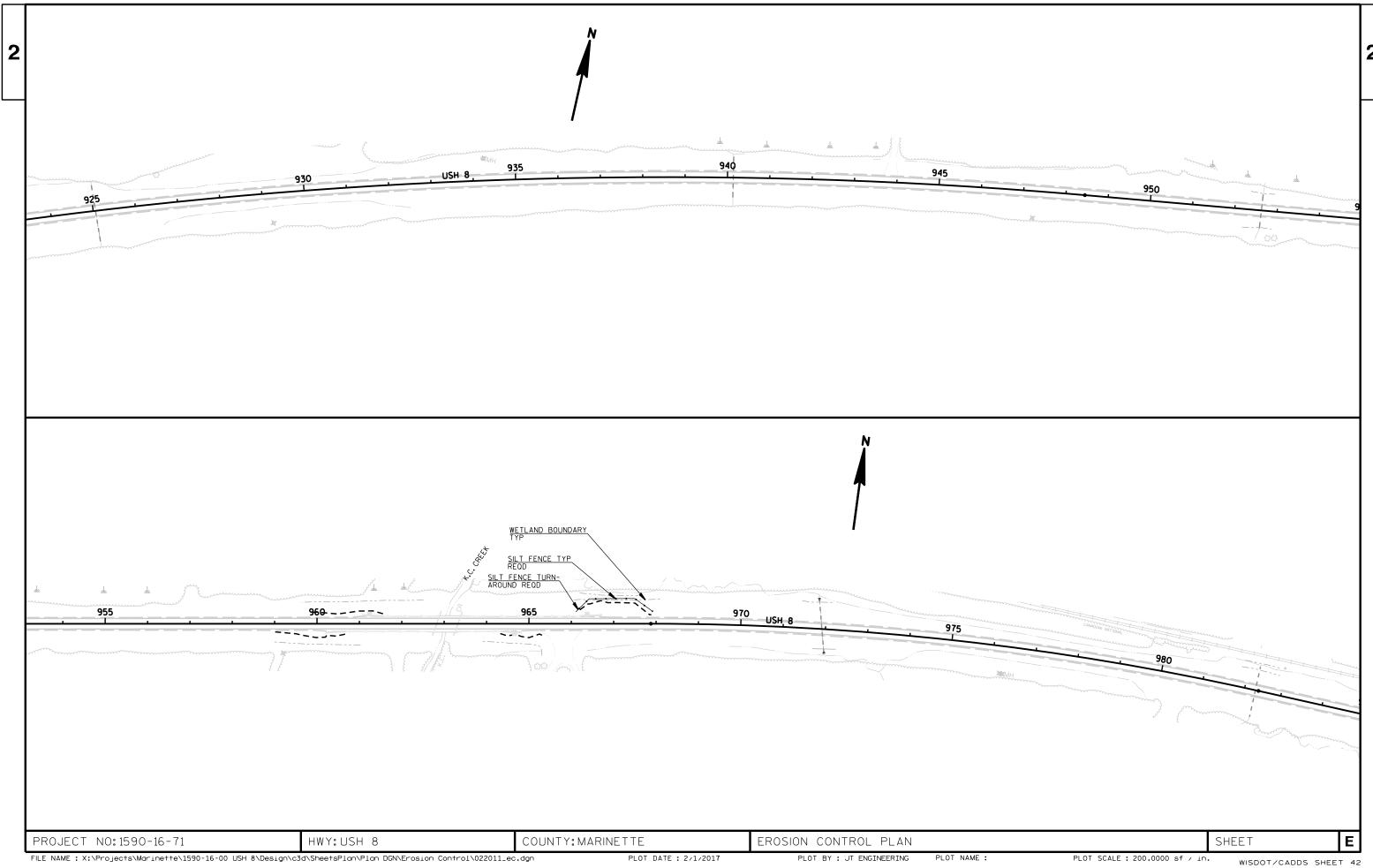




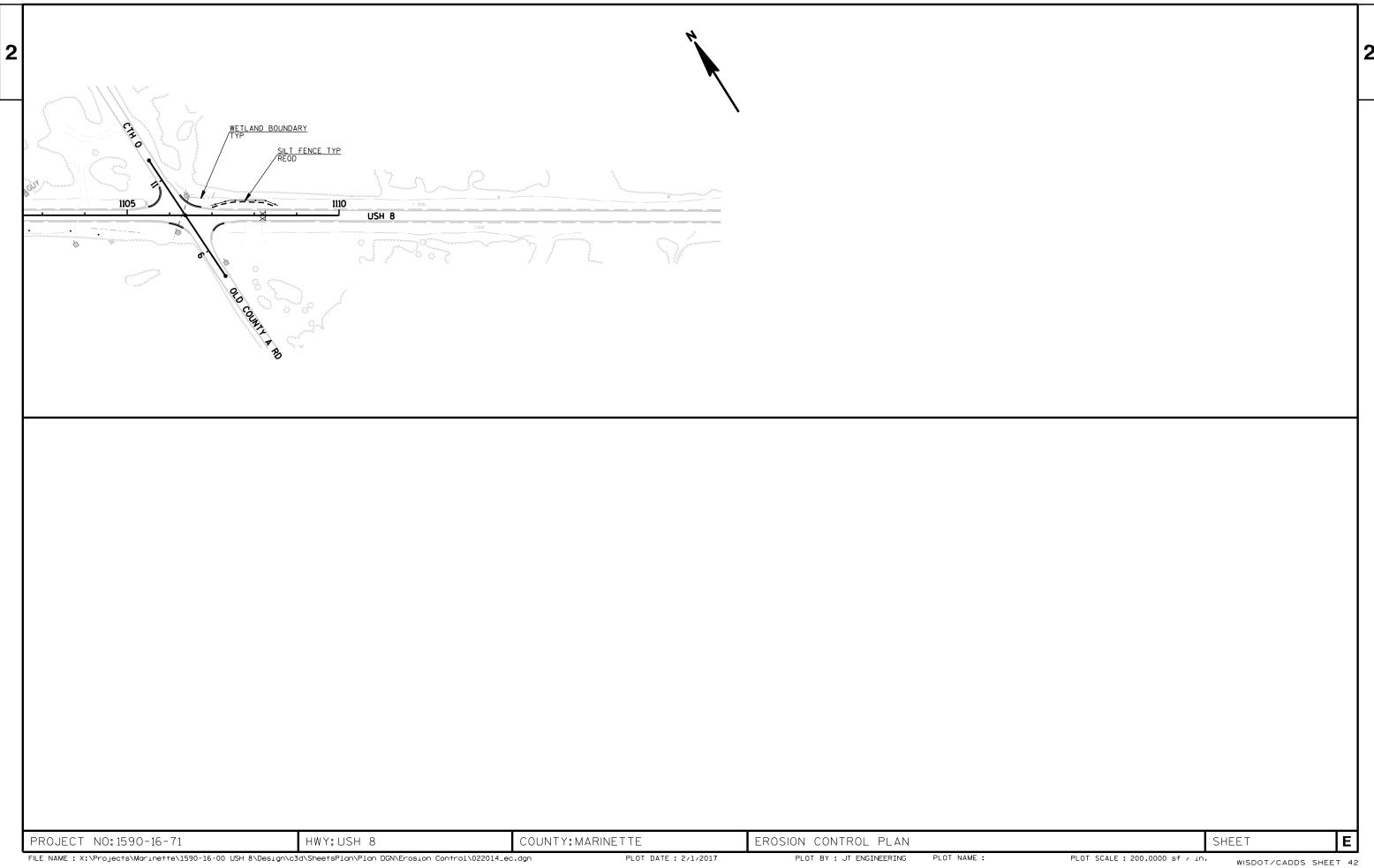


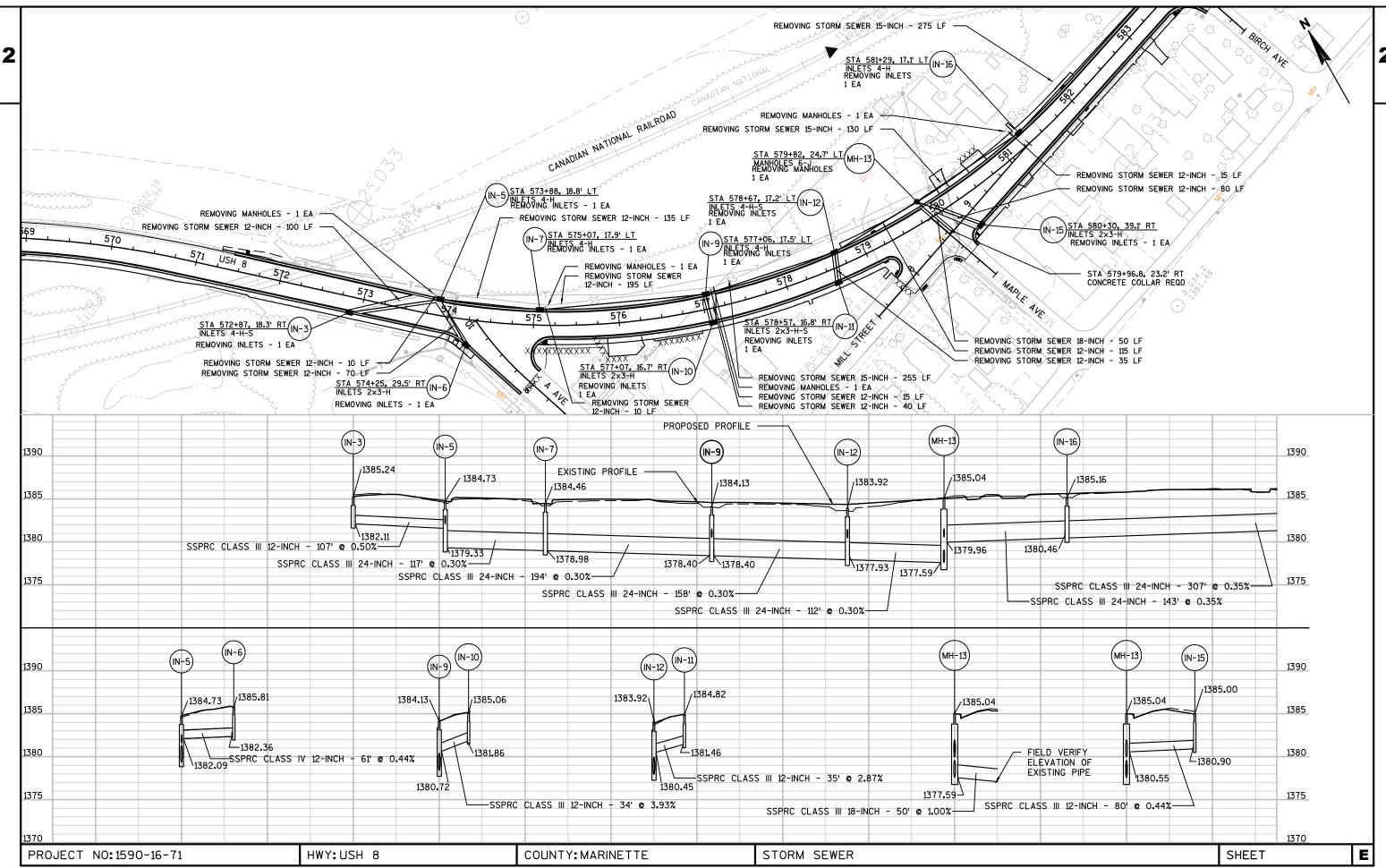


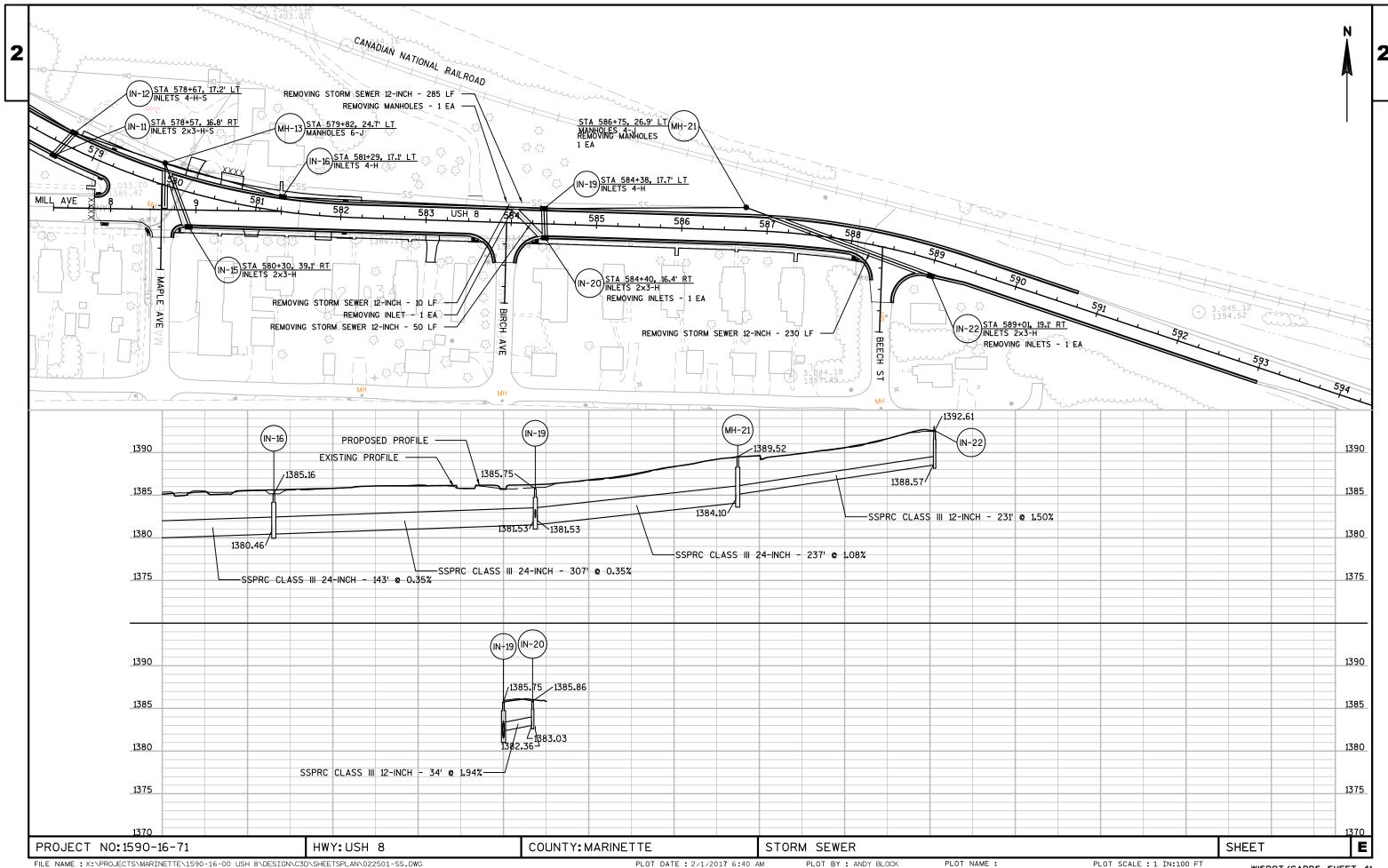


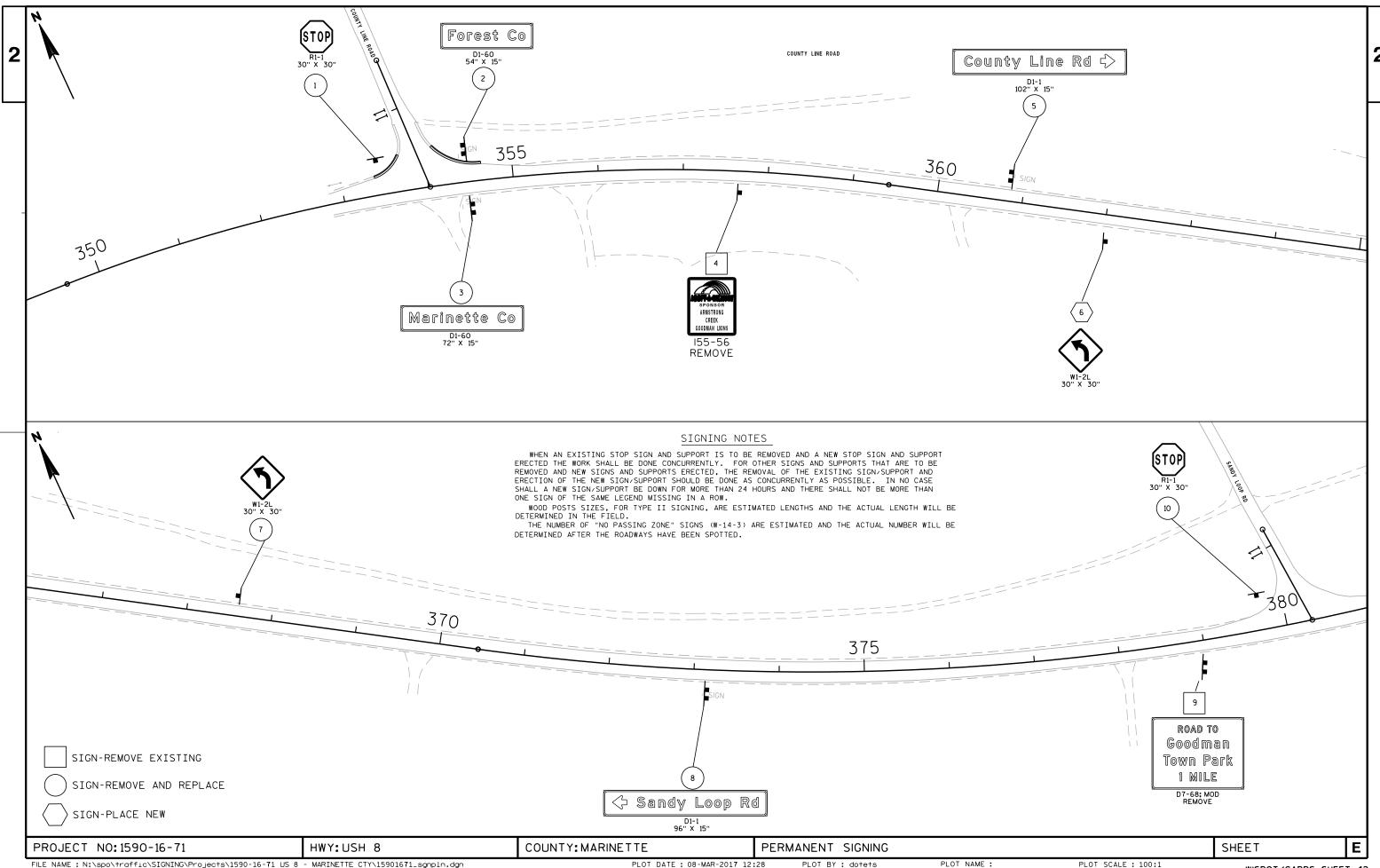




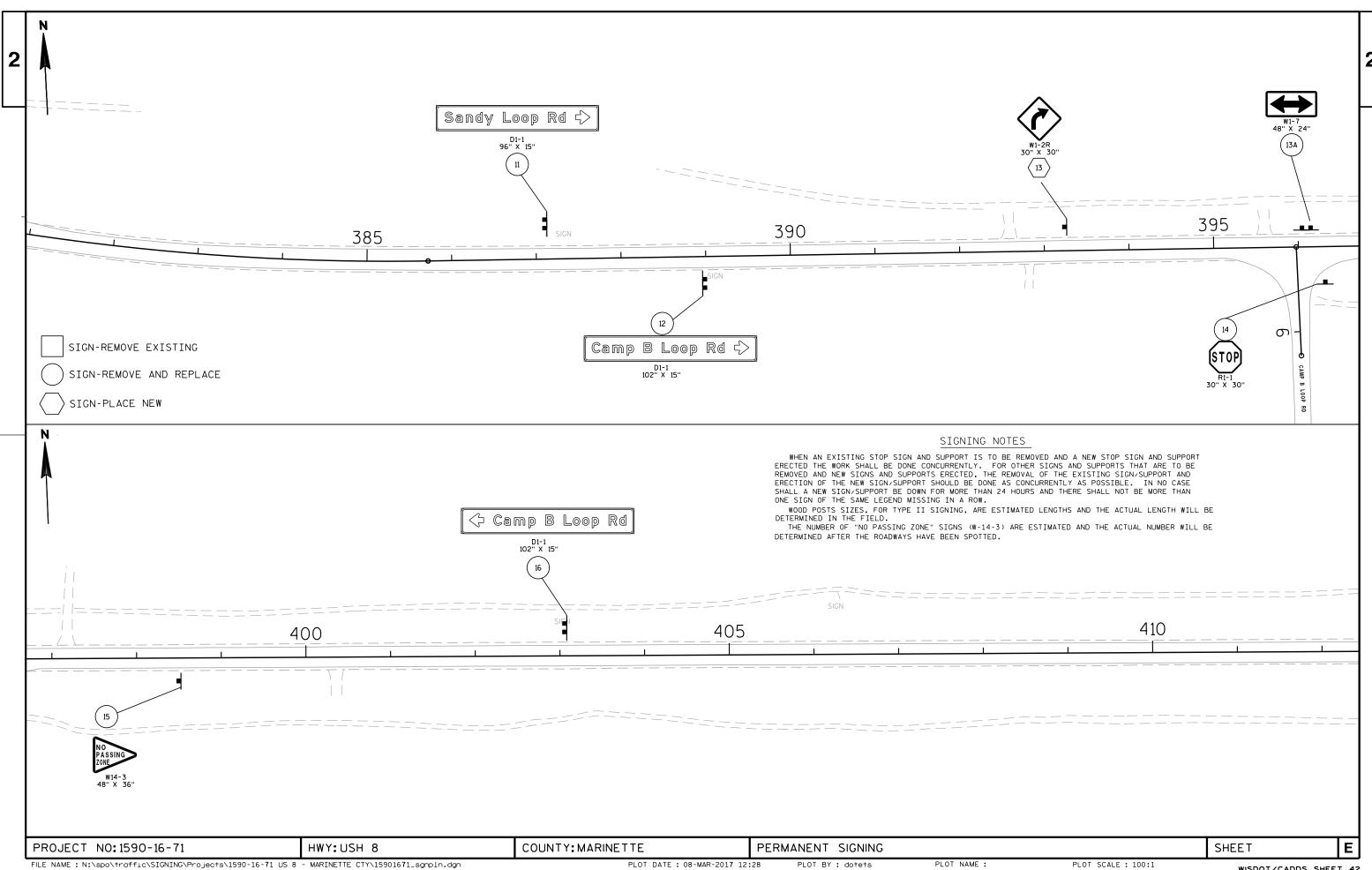


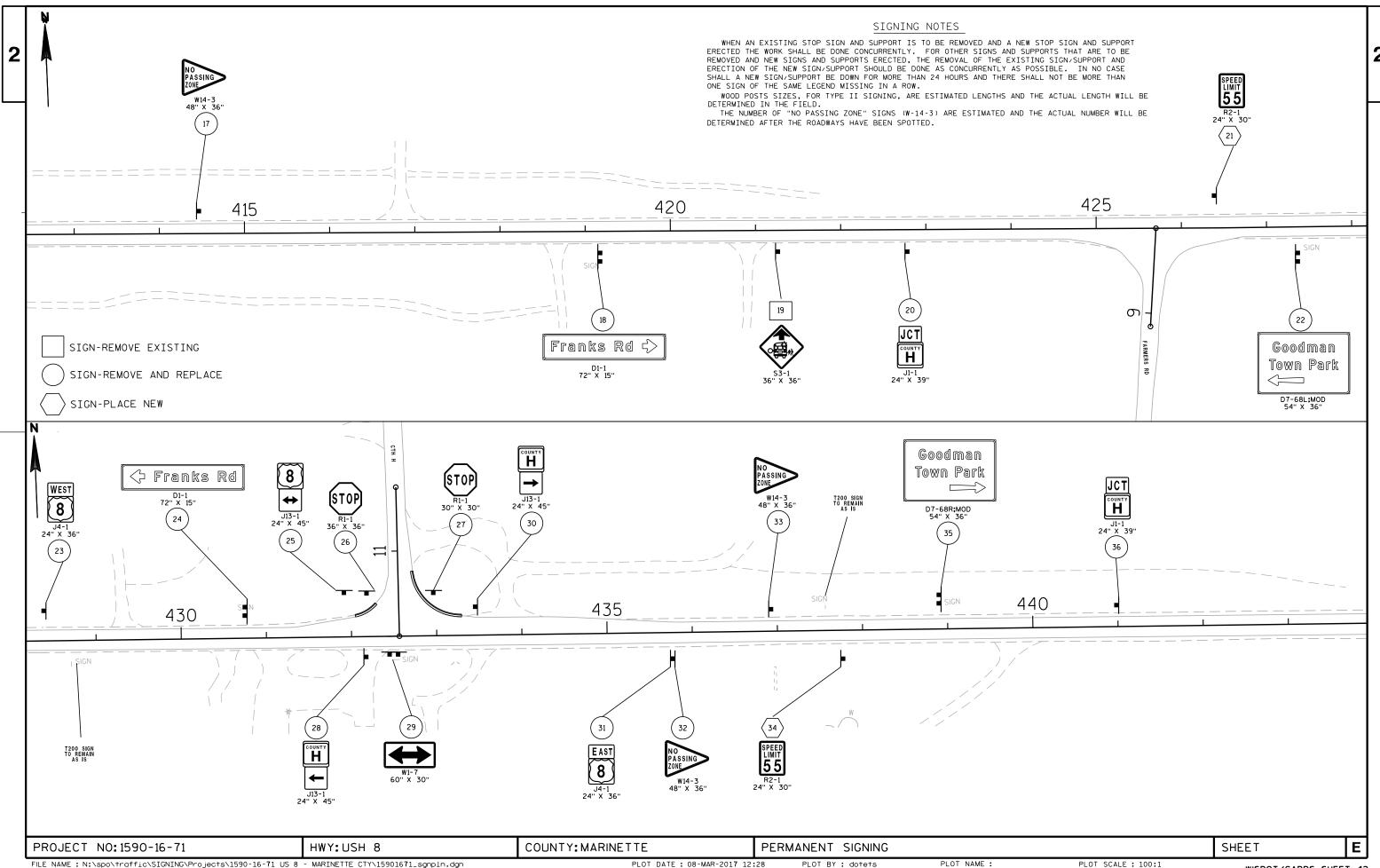


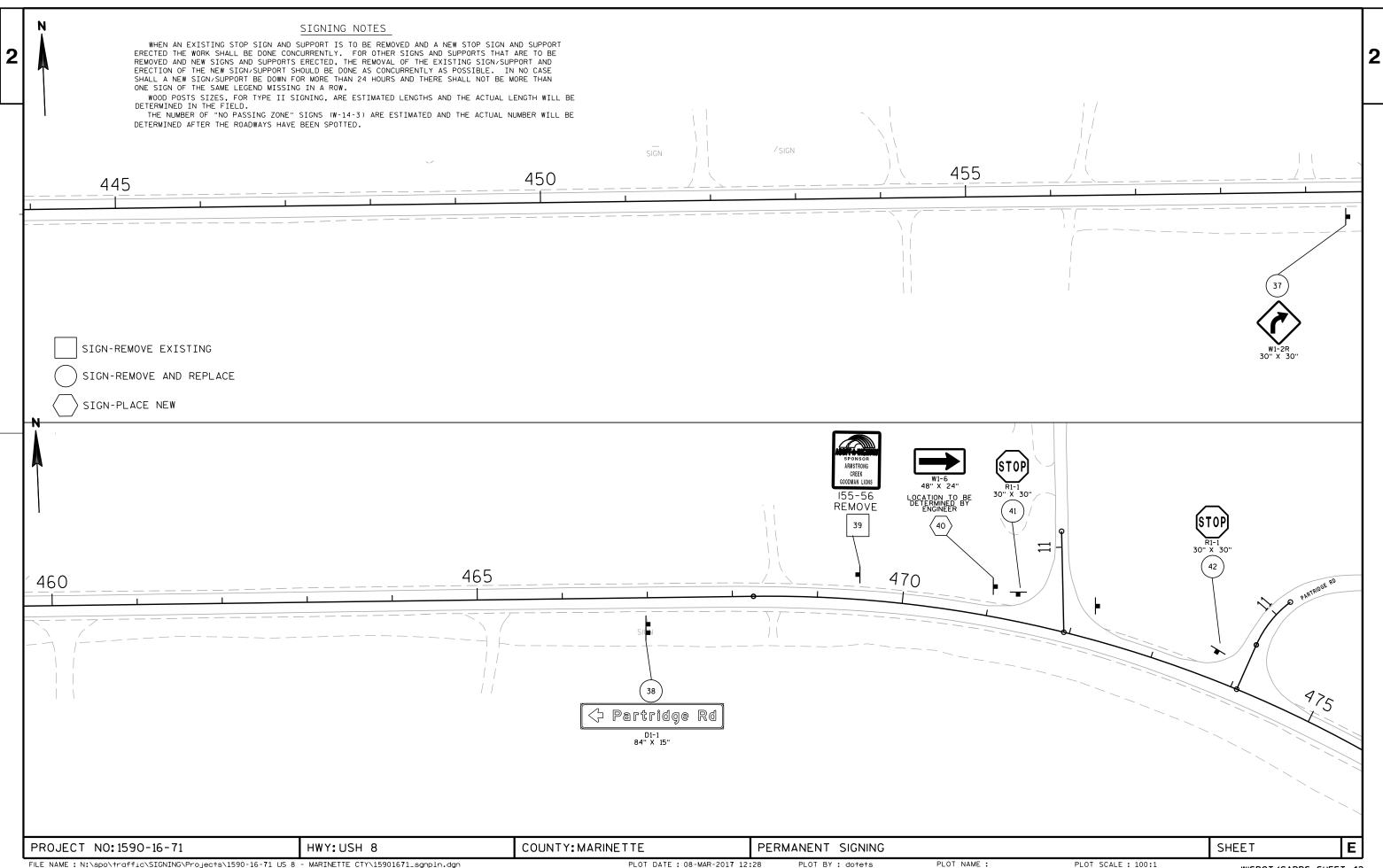




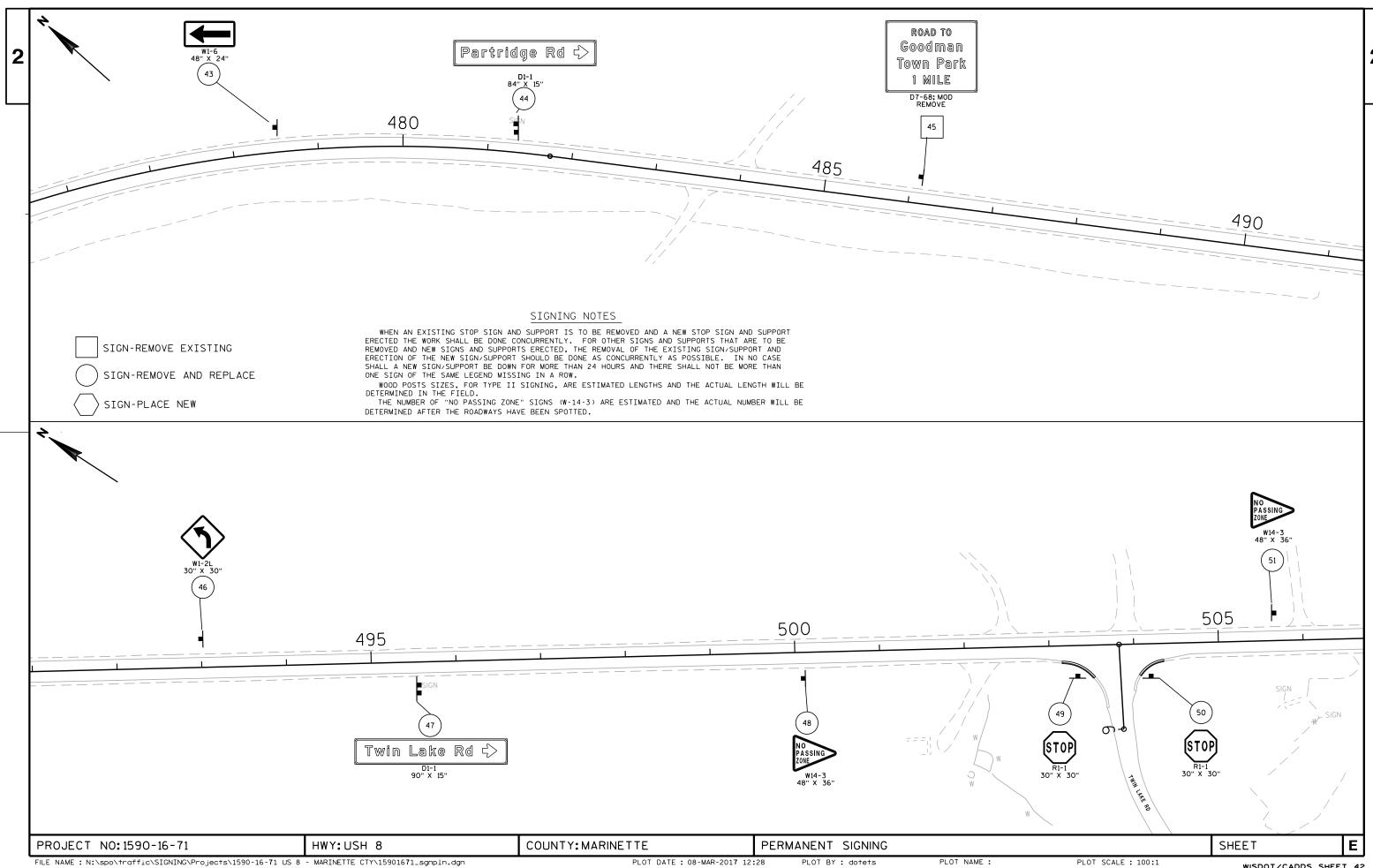
PLOT NAME :





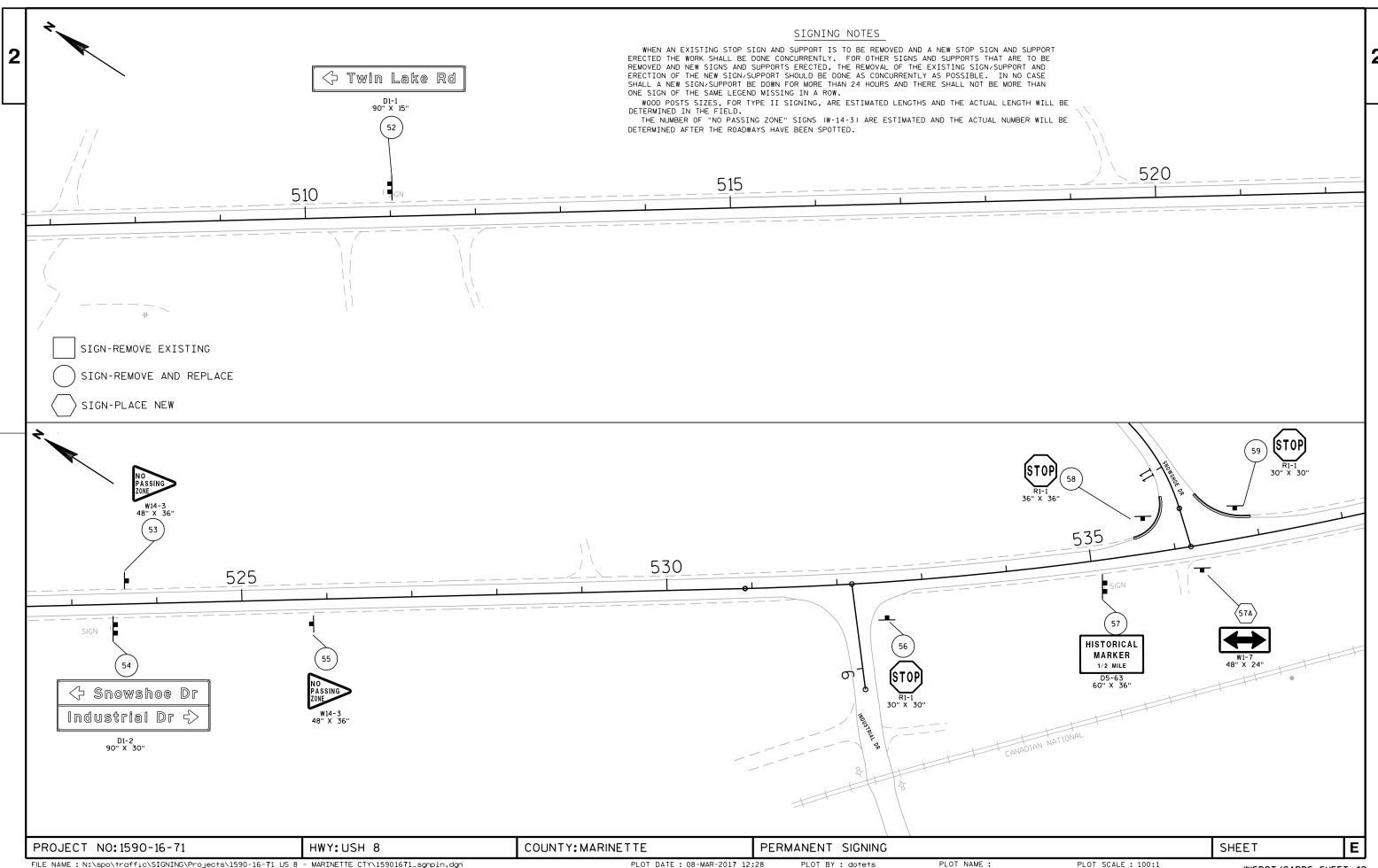


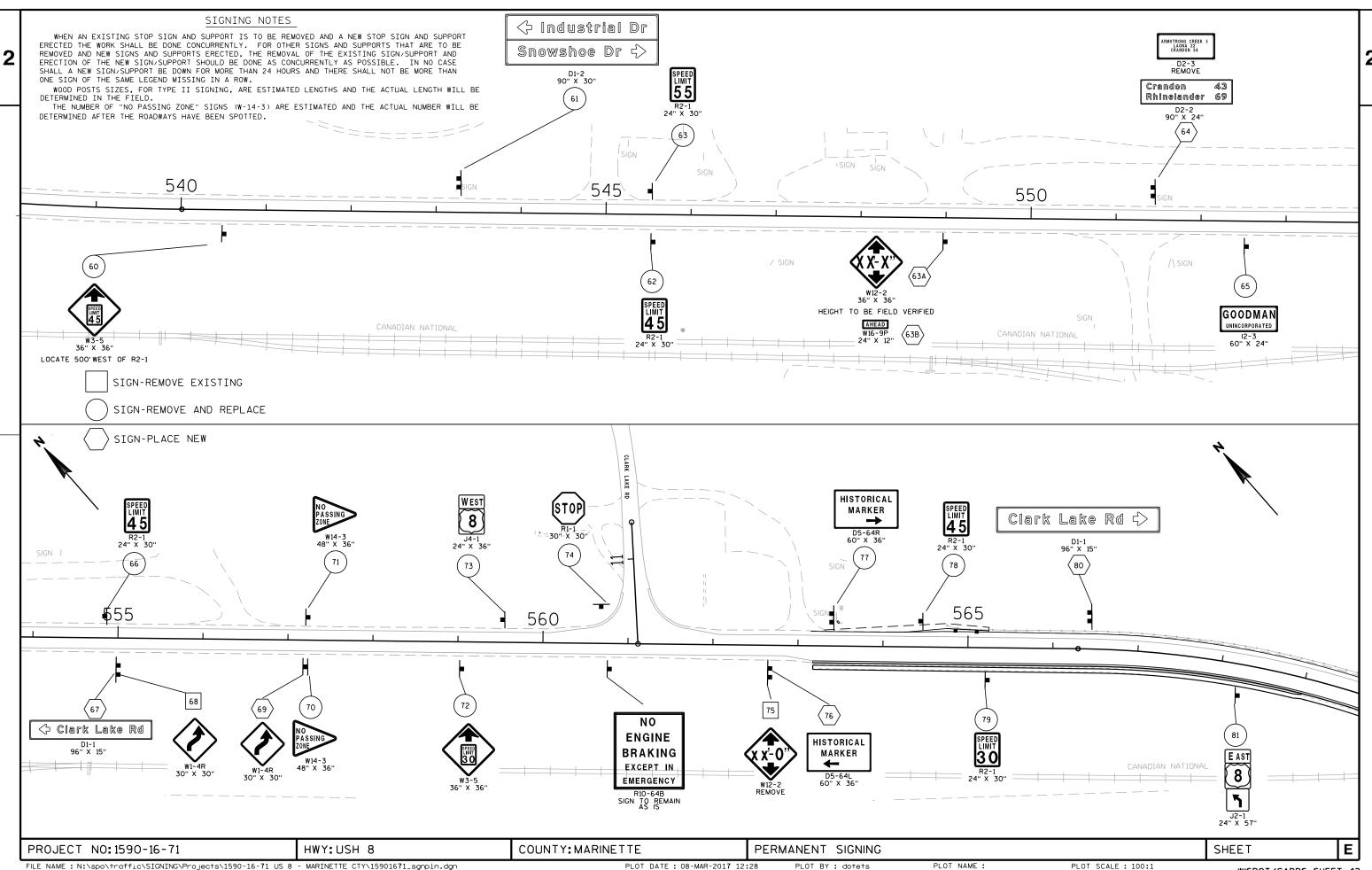
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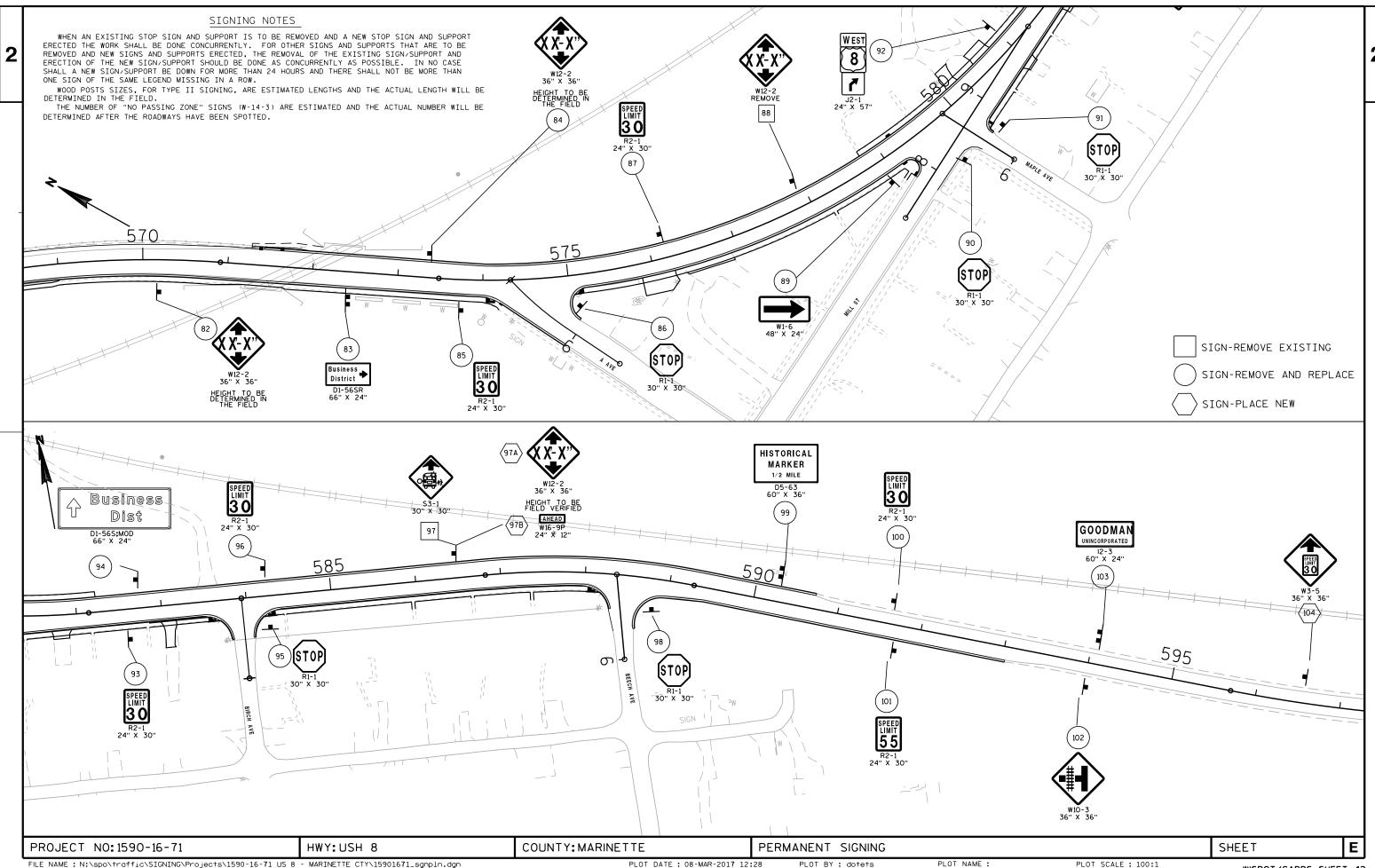
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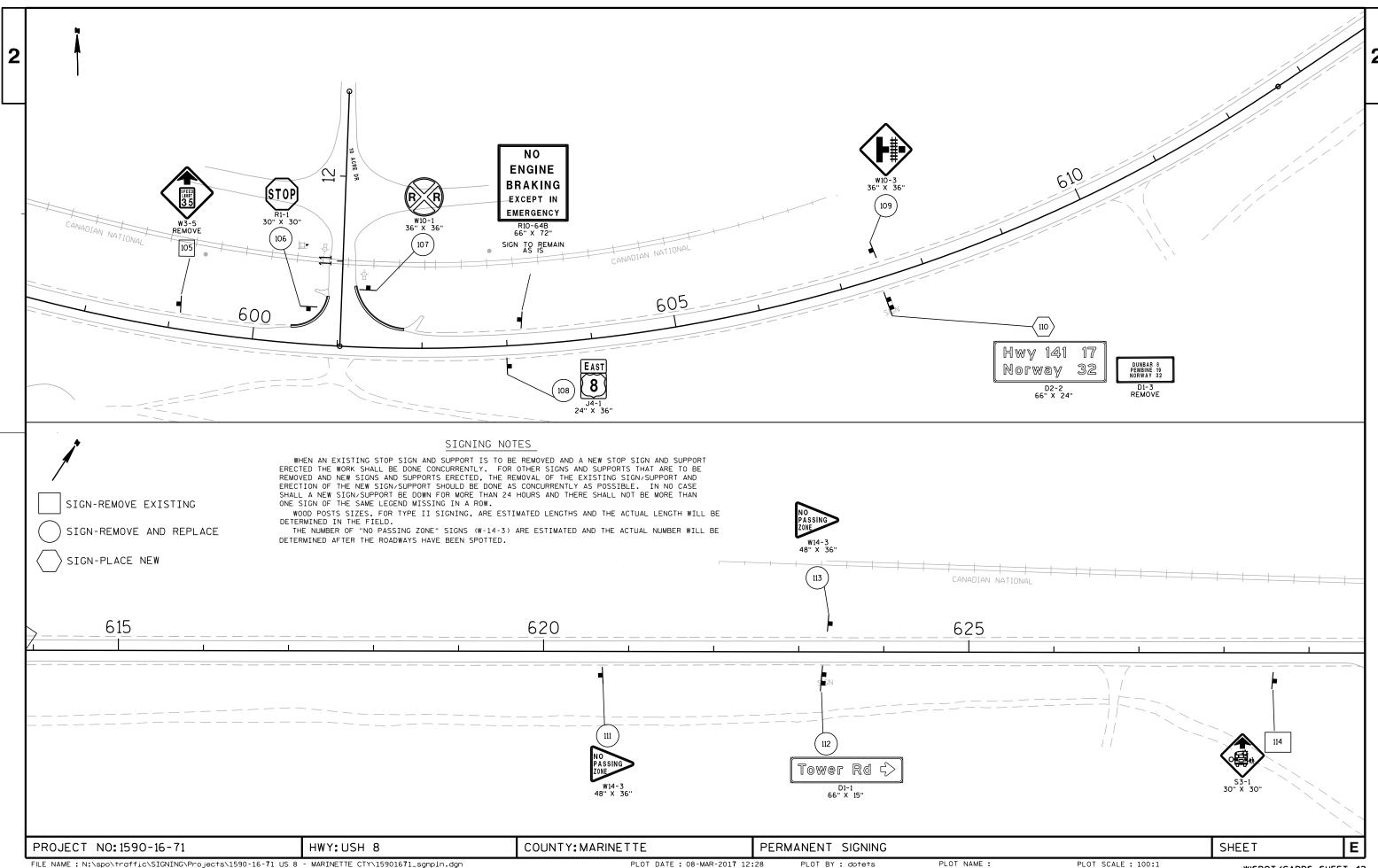
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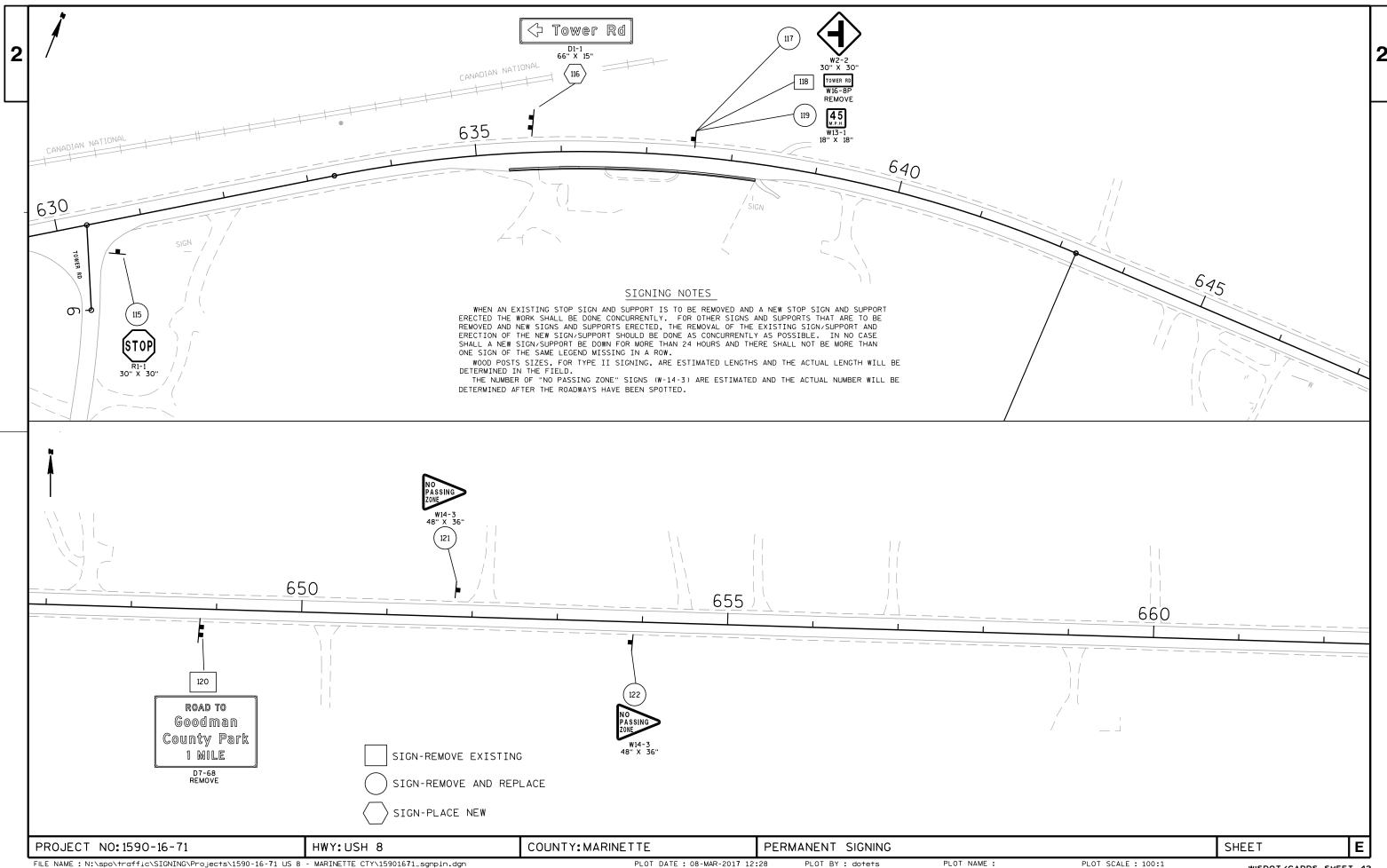
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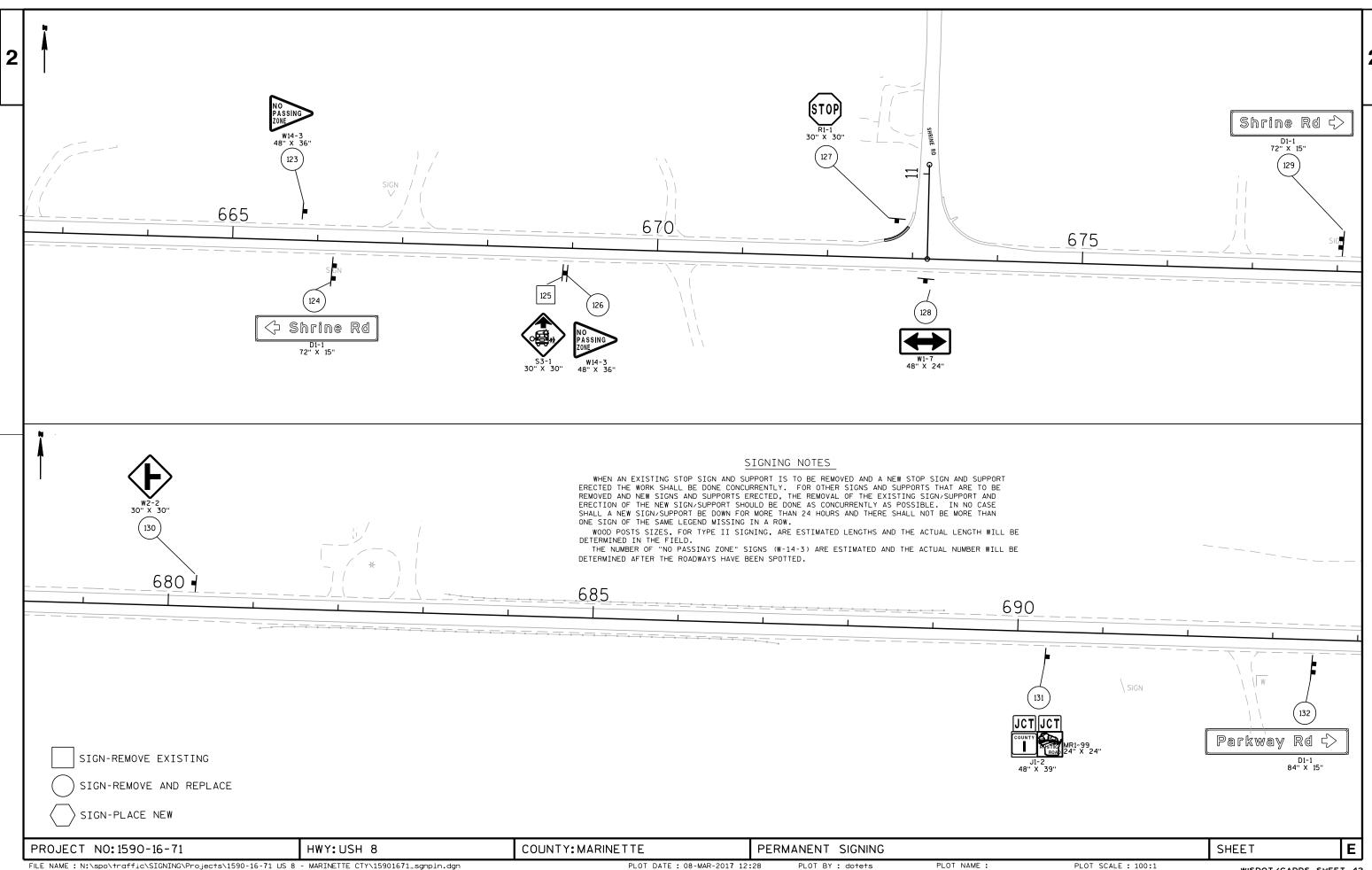


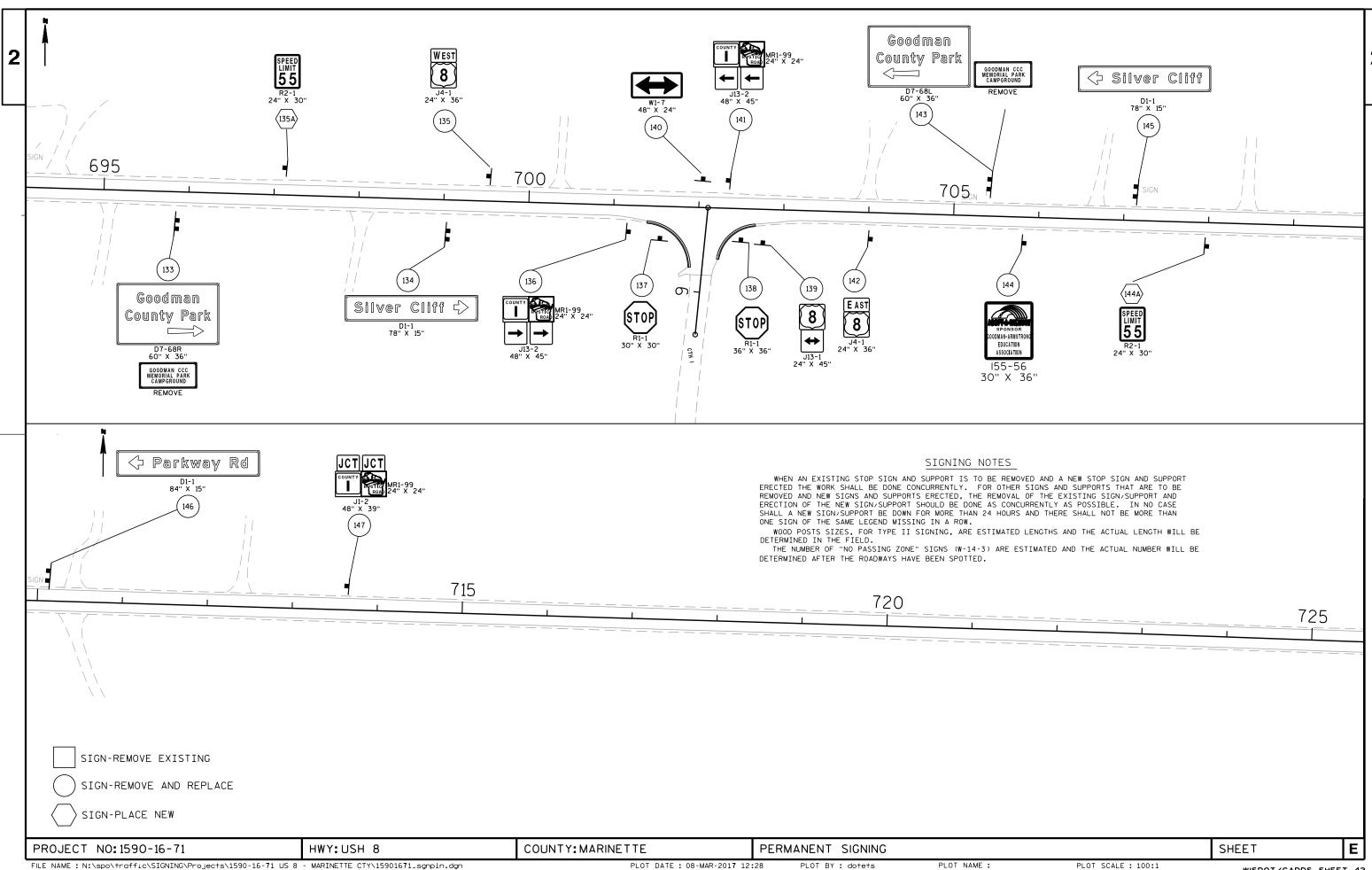
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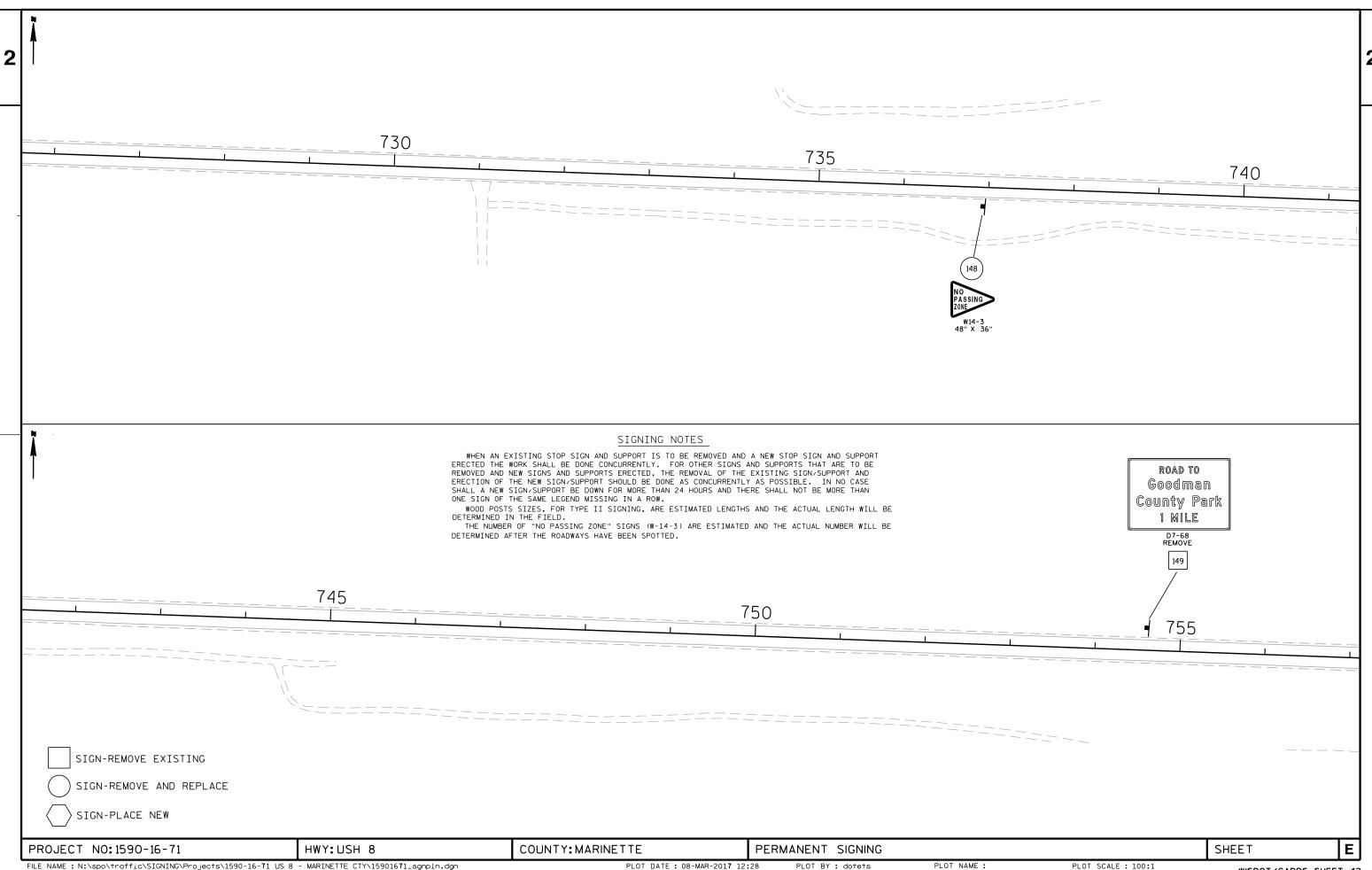
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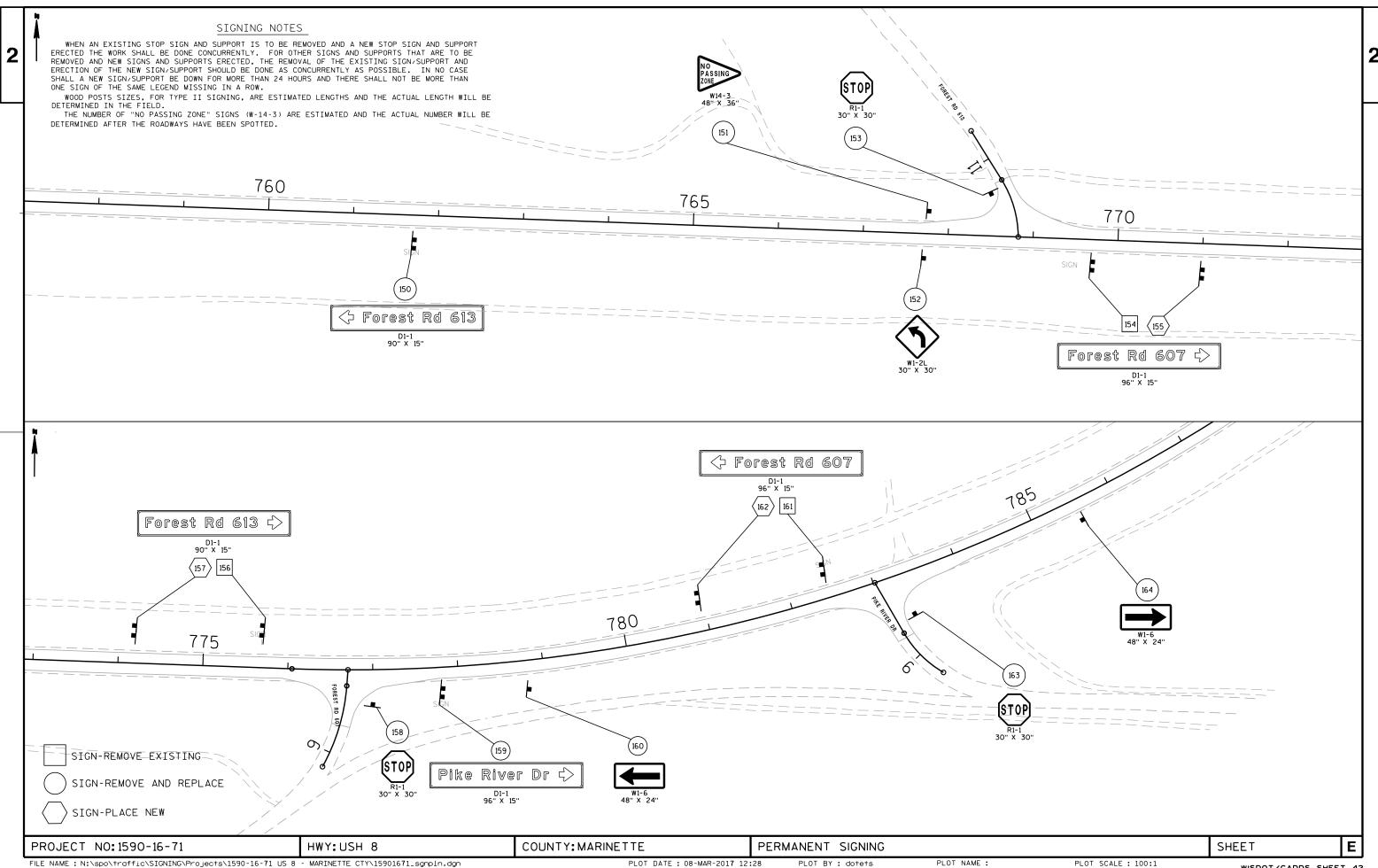


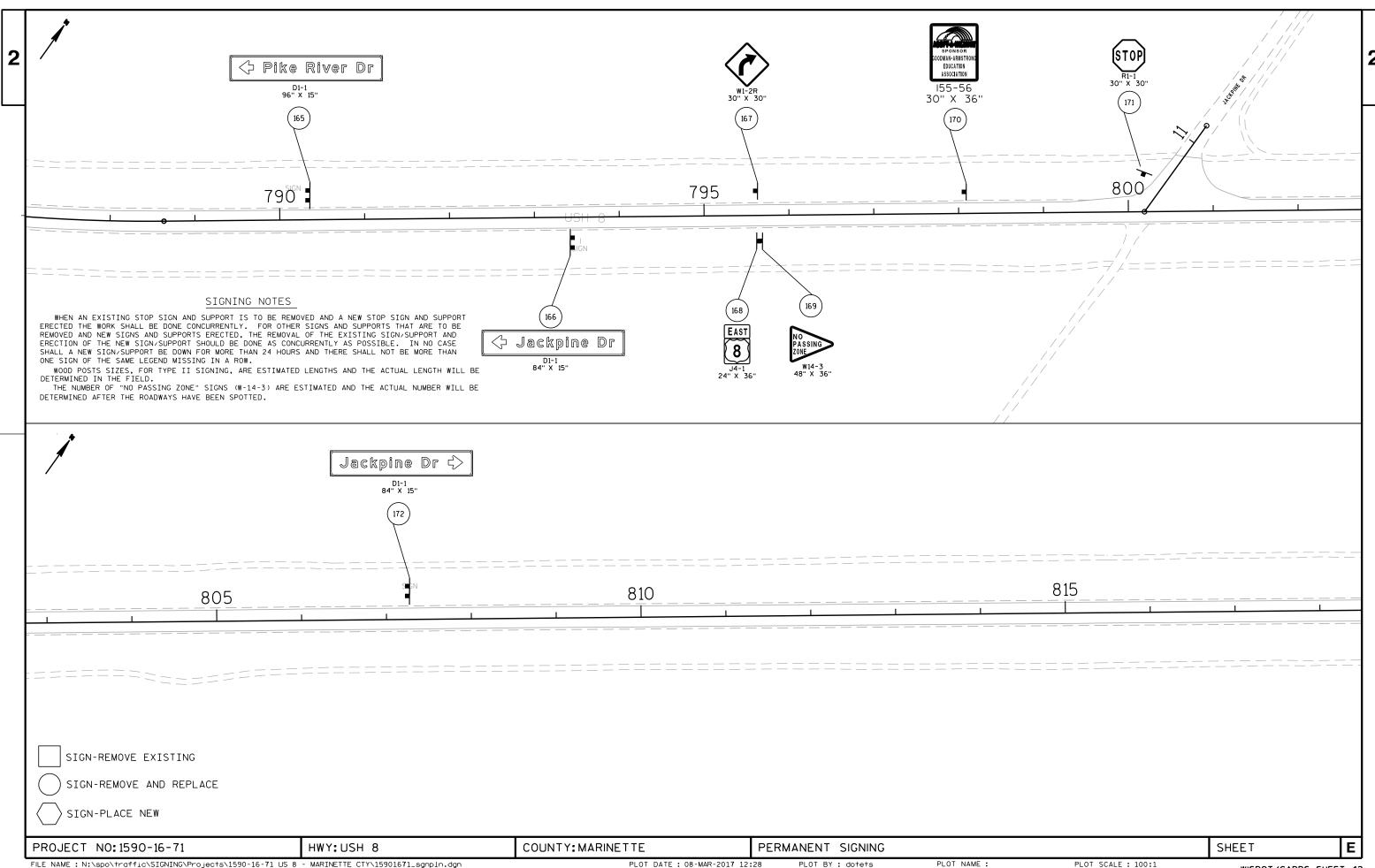
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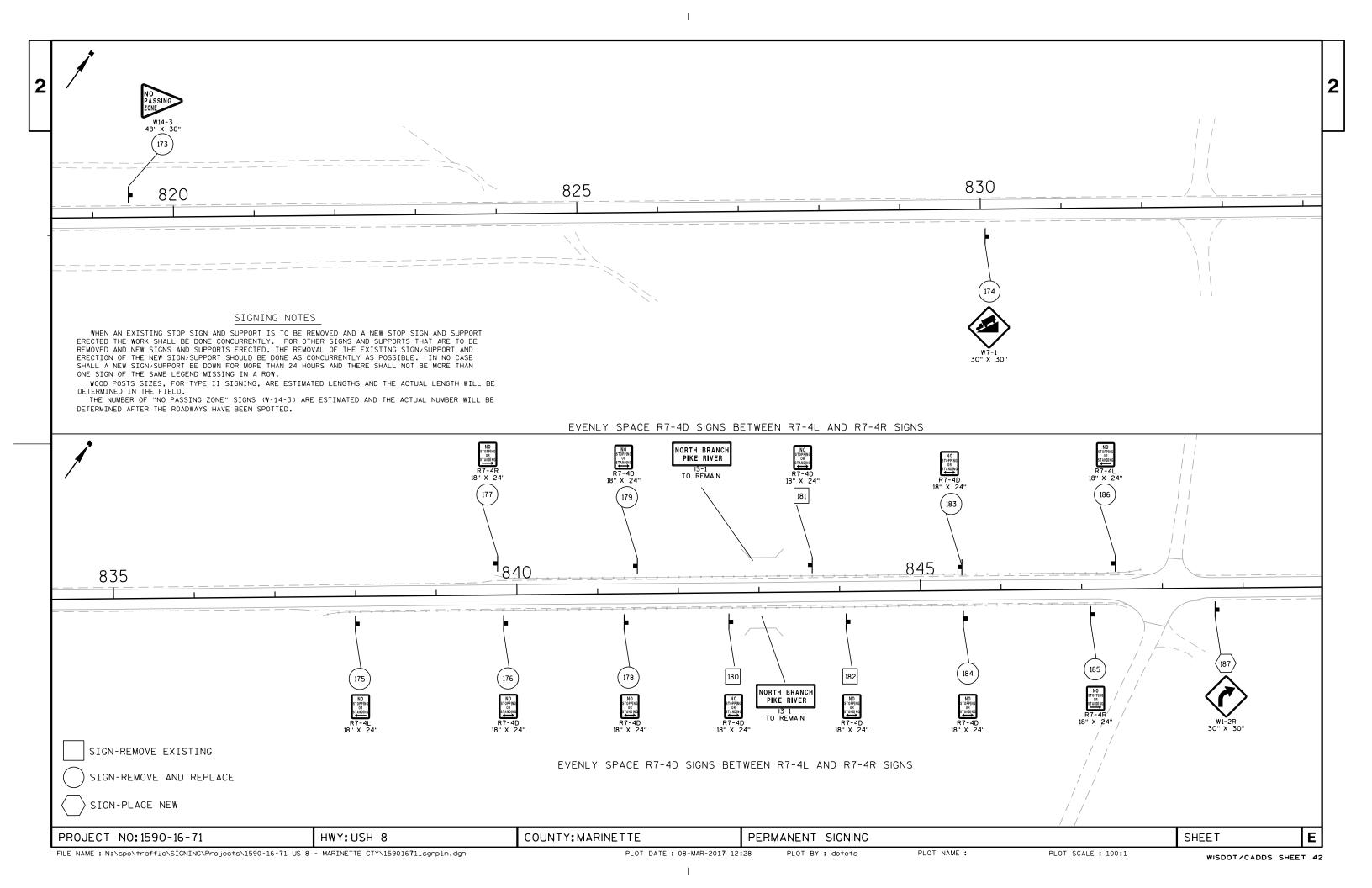


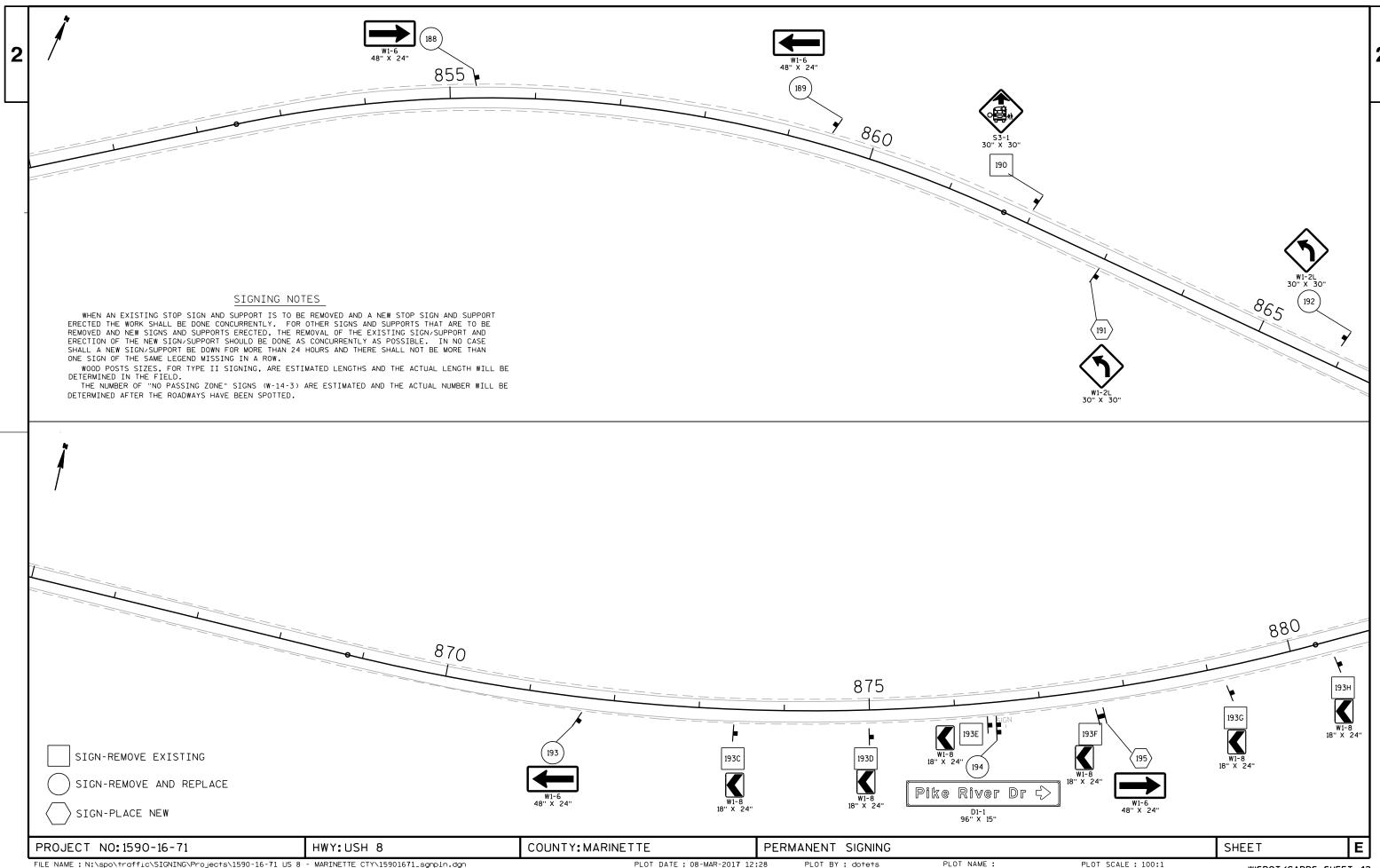




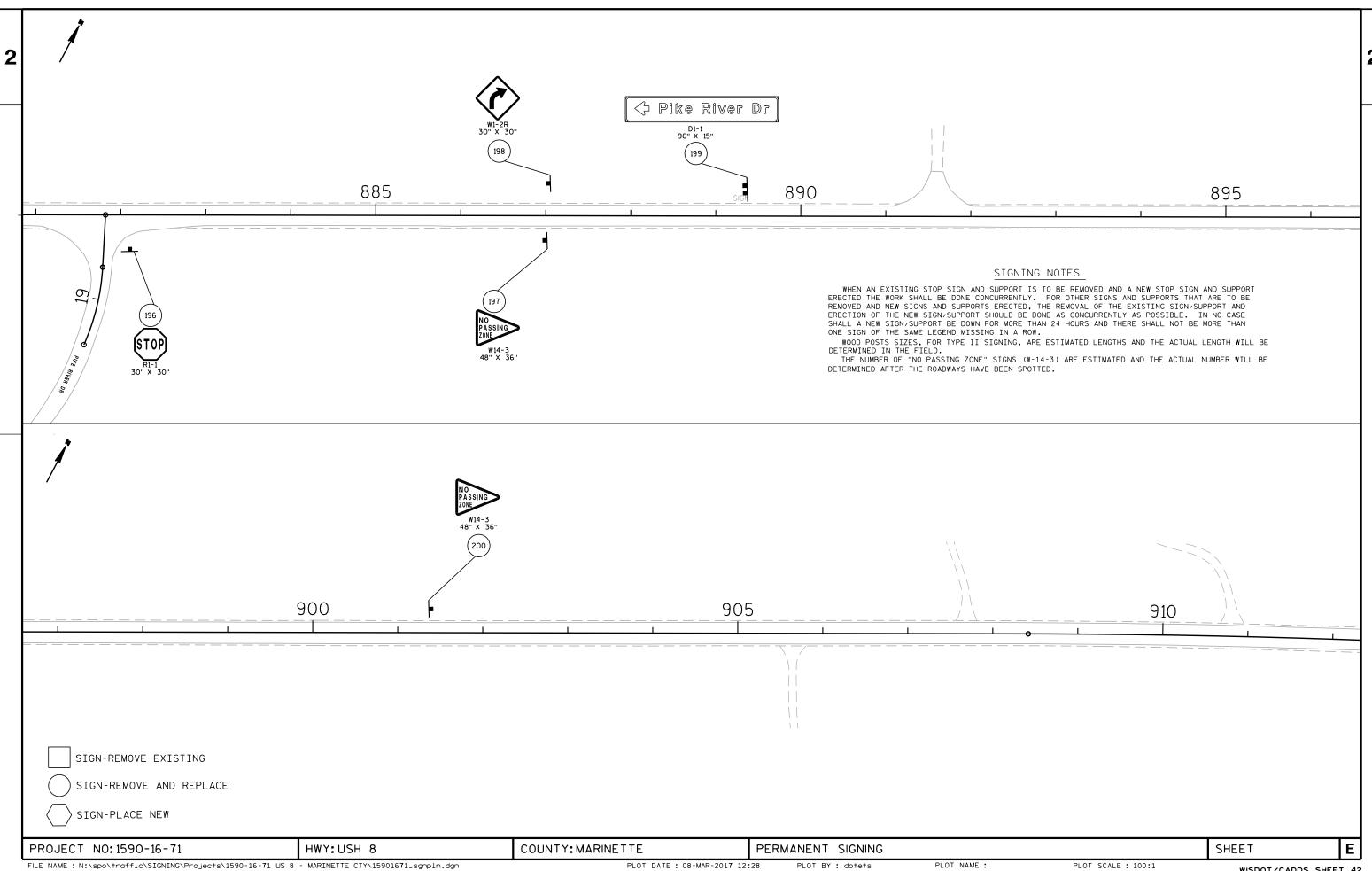


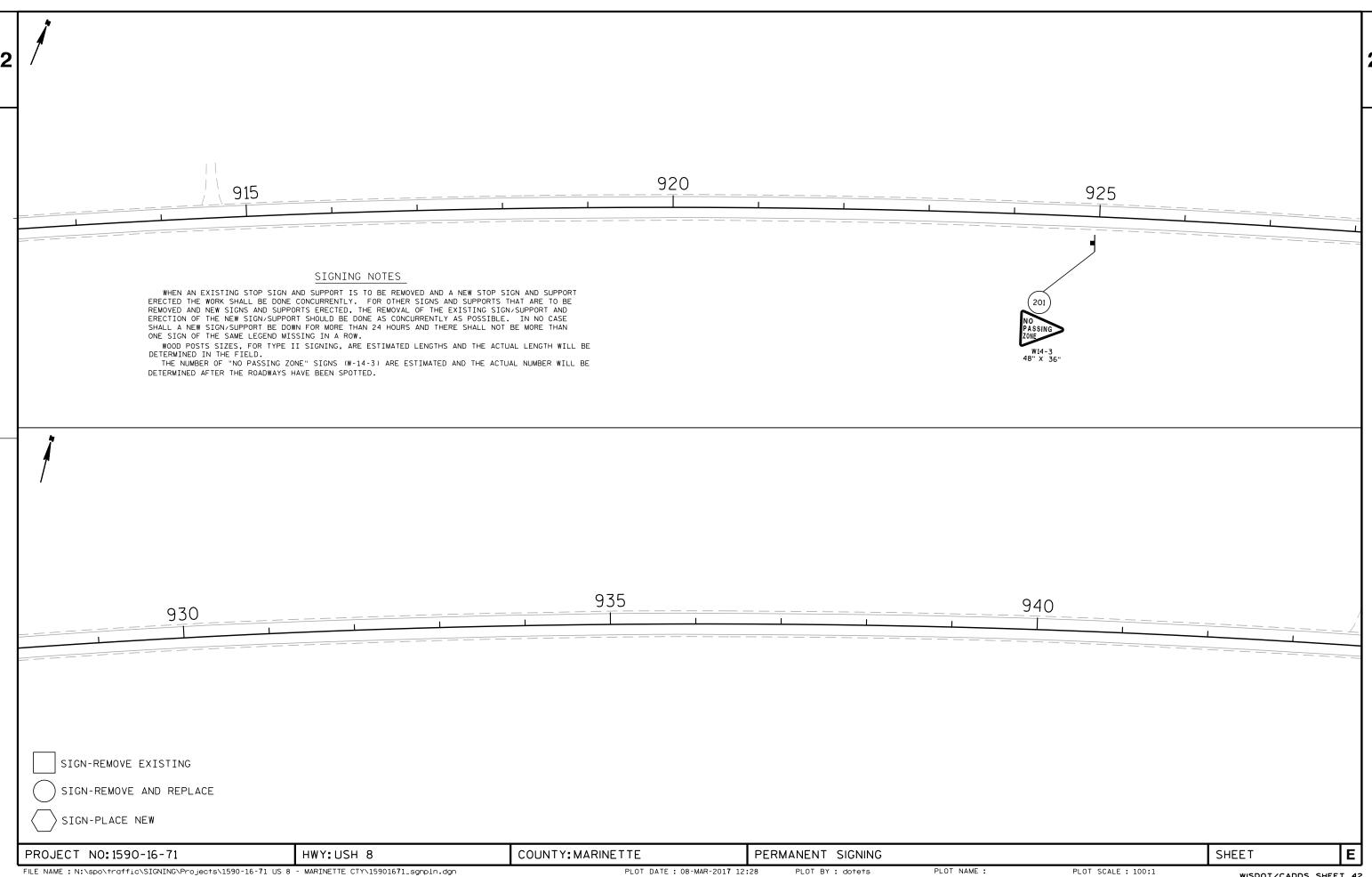


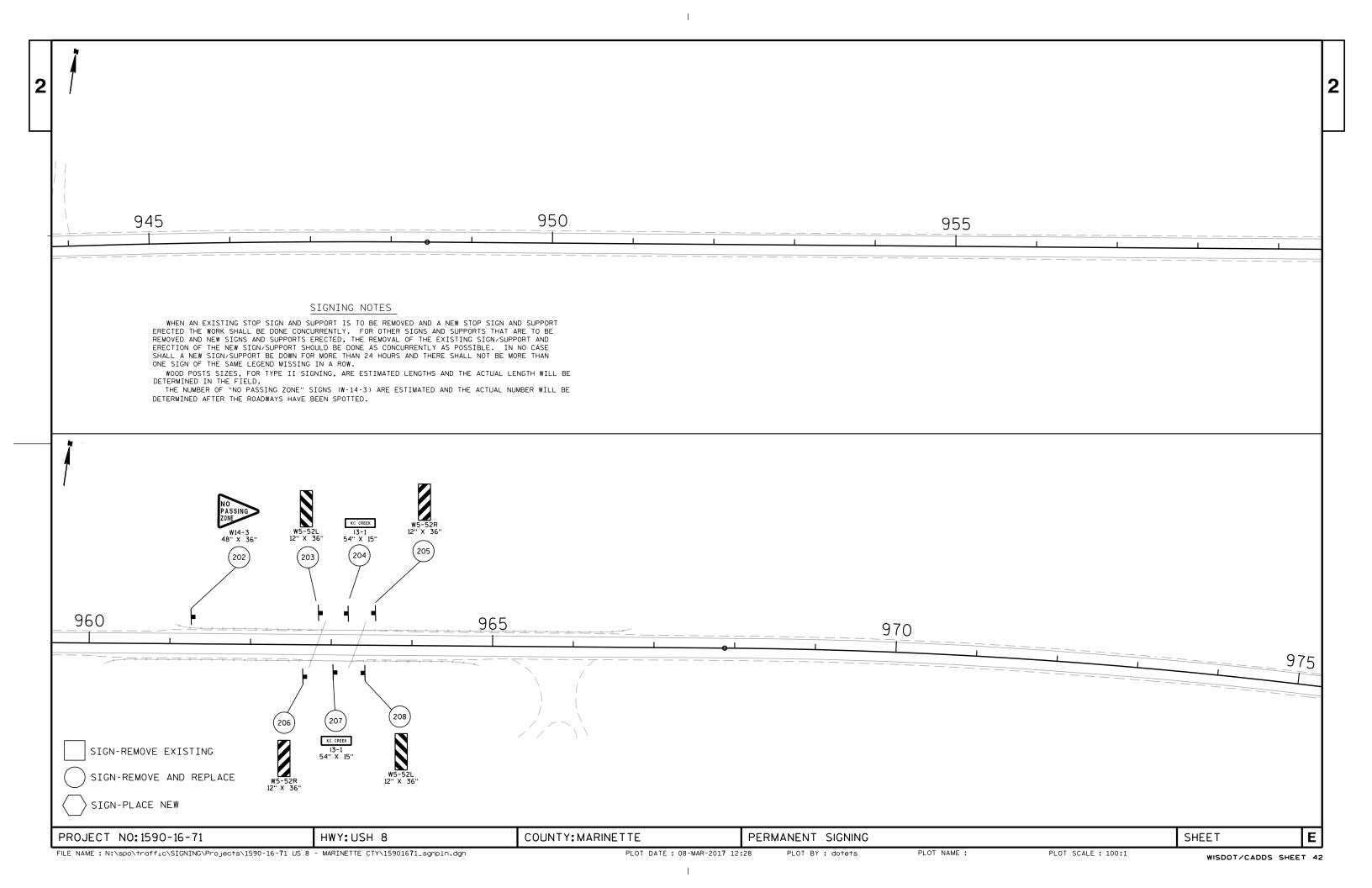


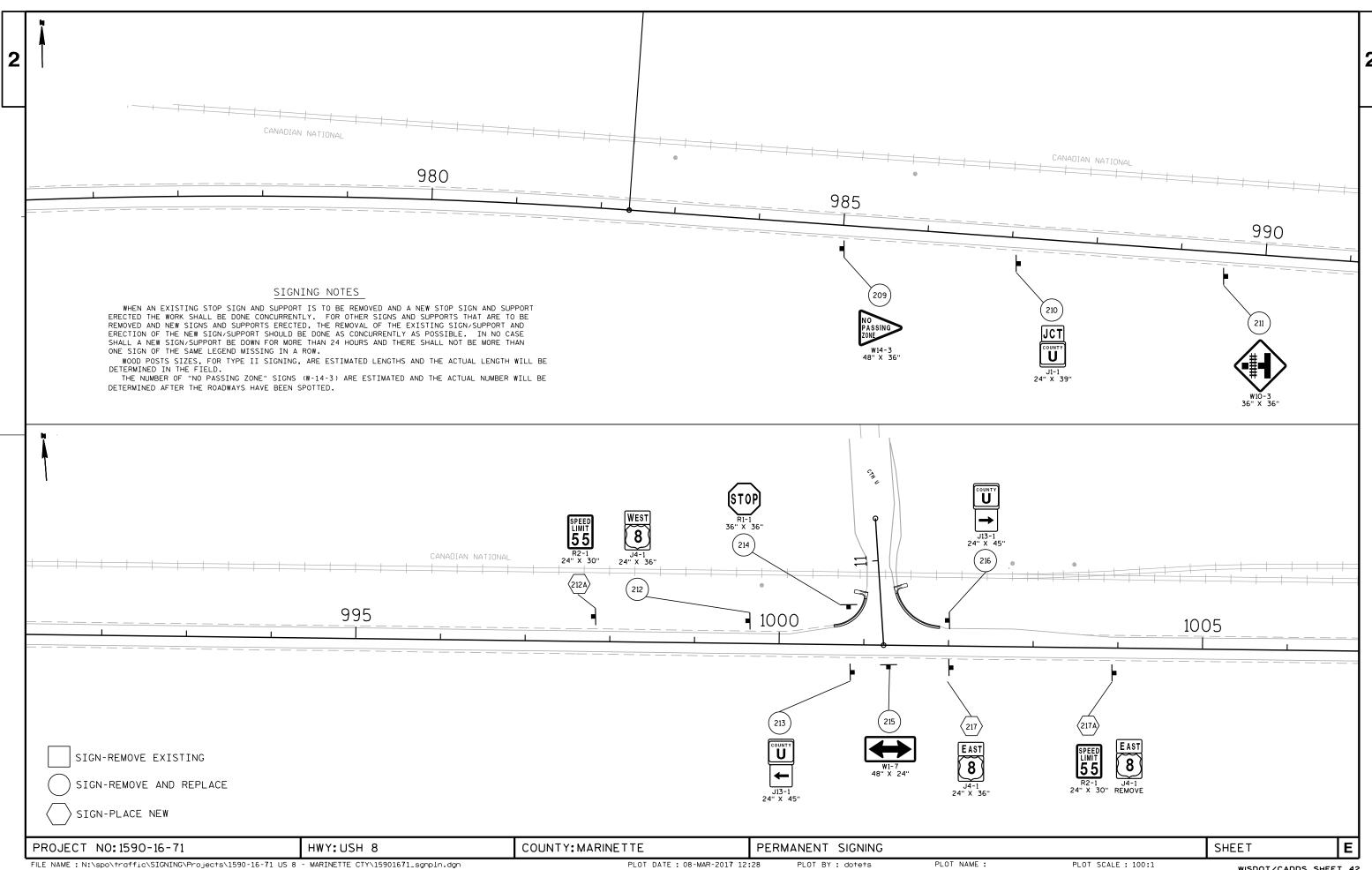


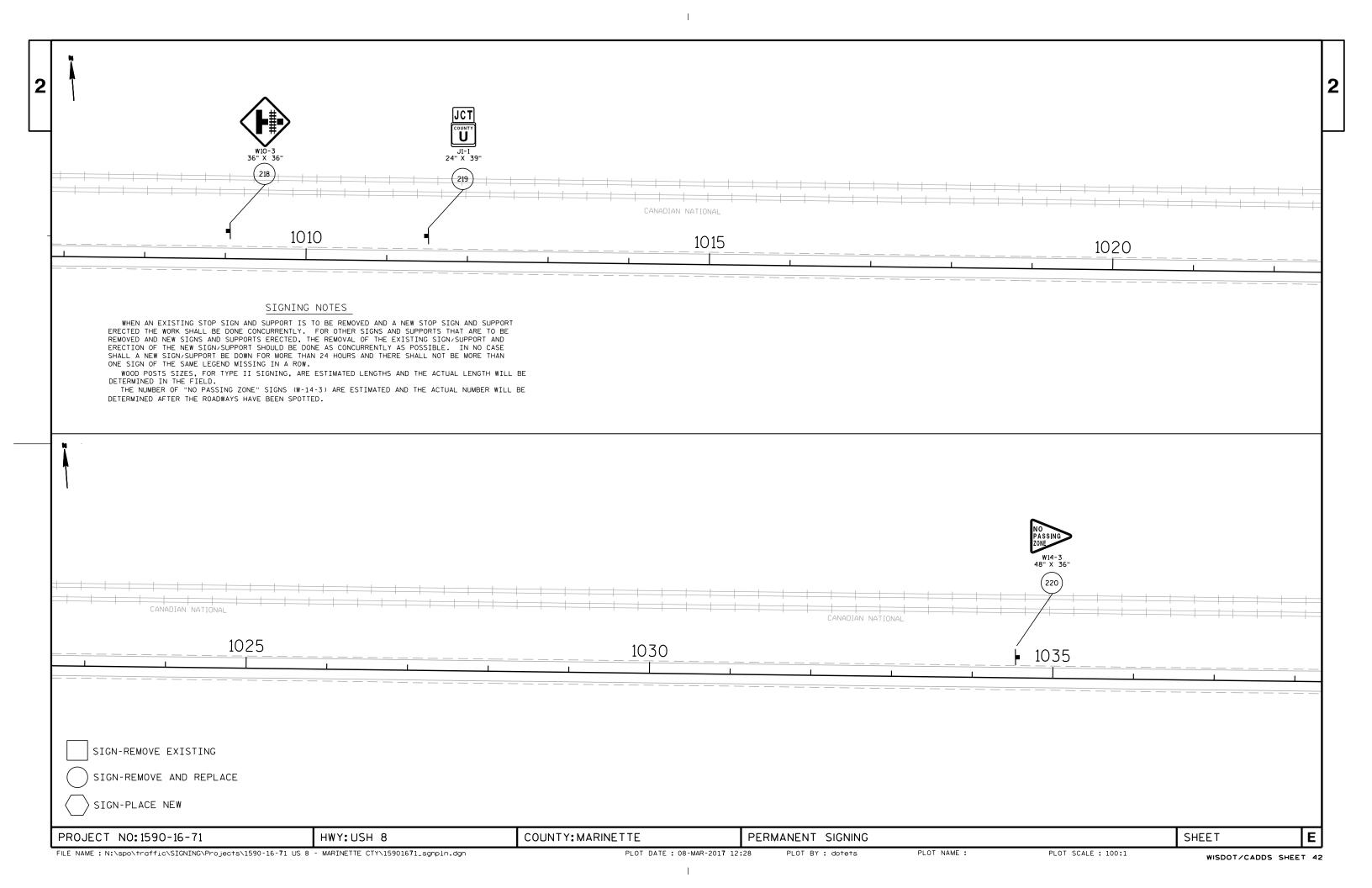
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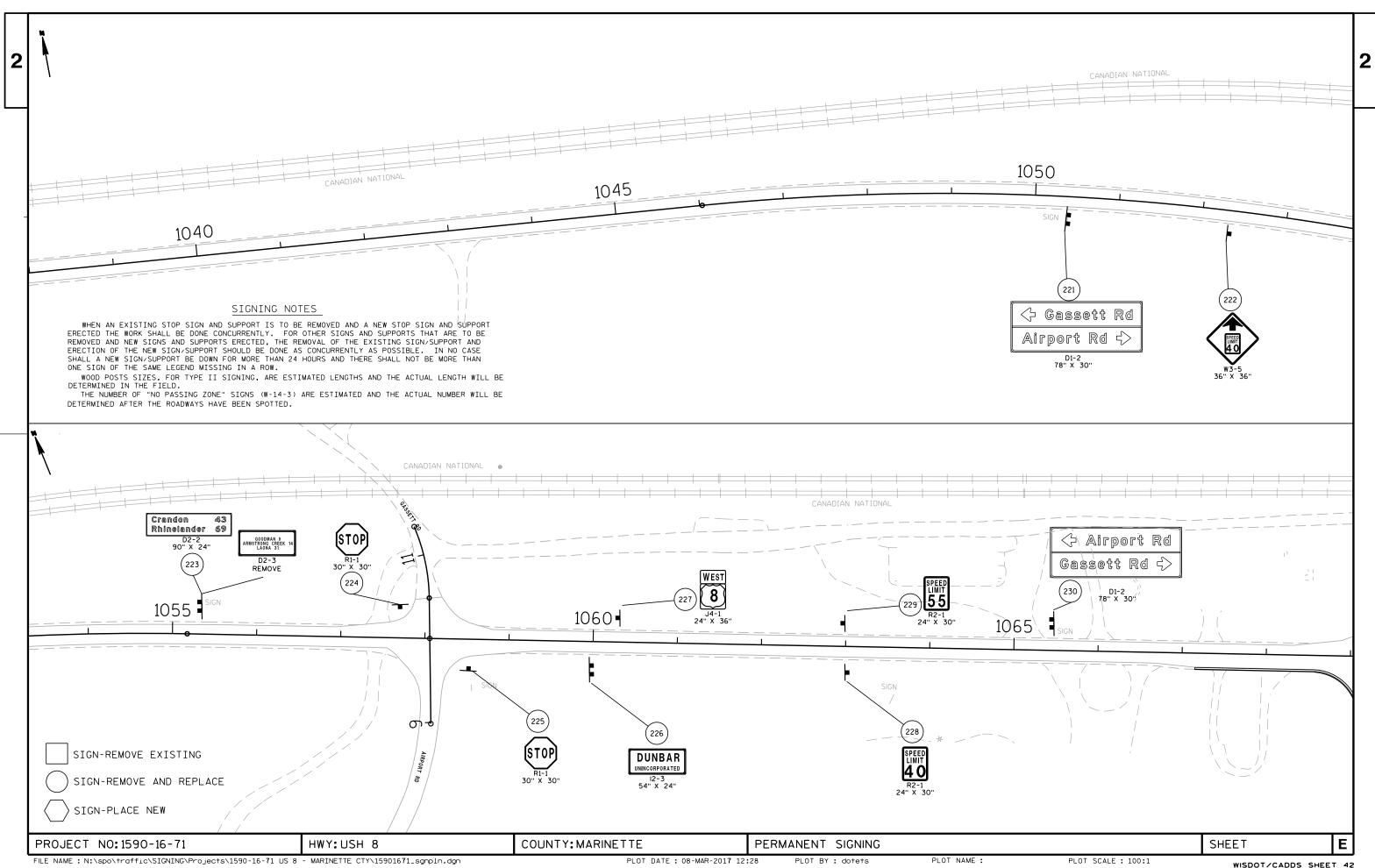


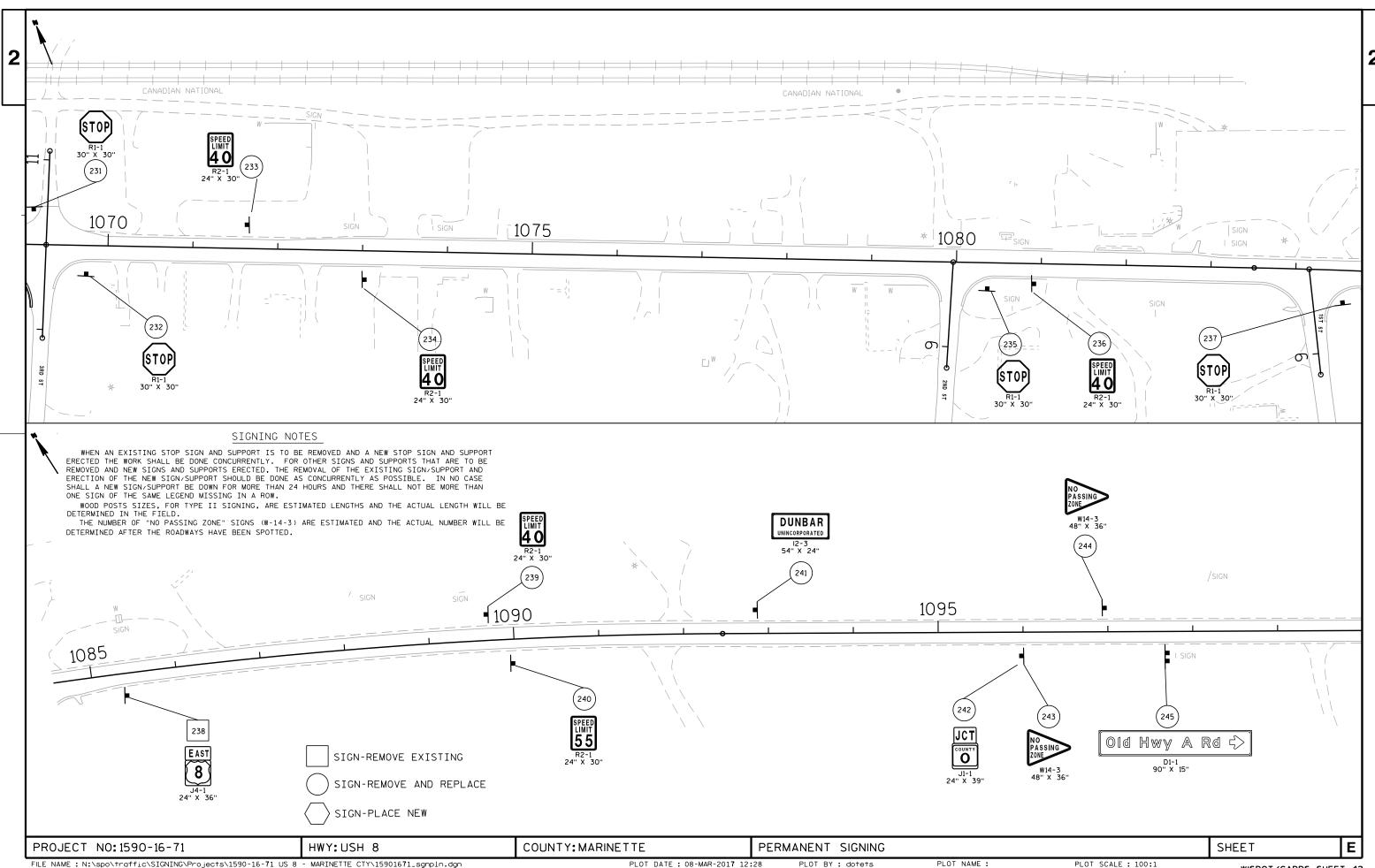


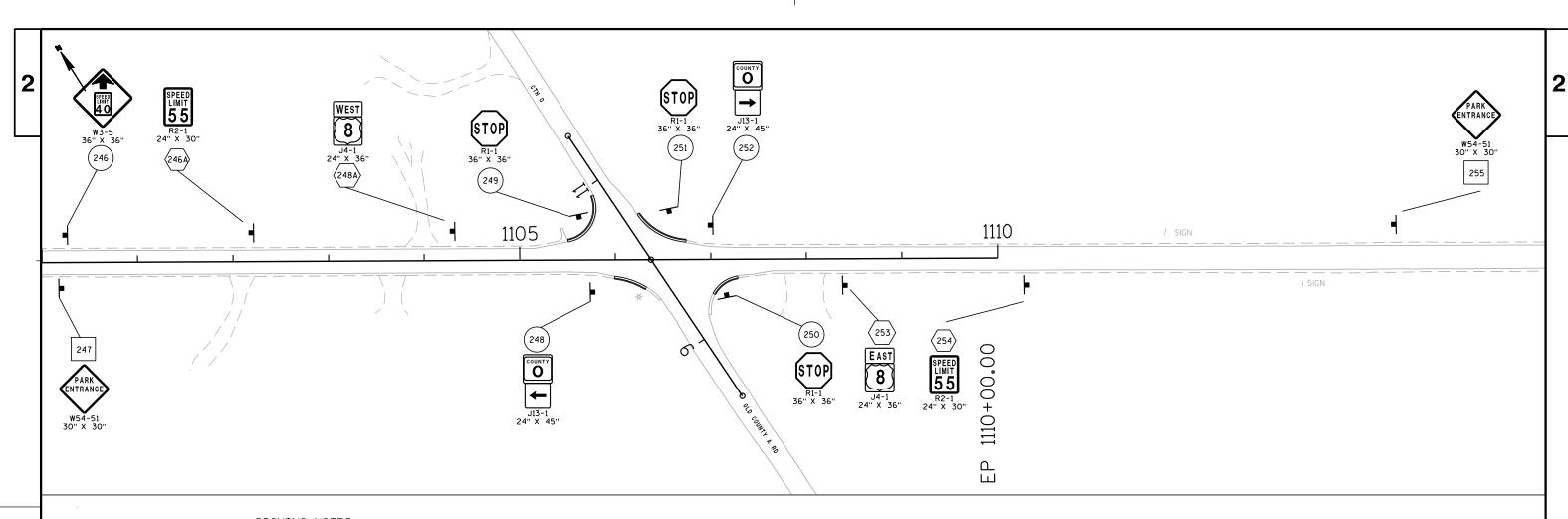












## SIGNING NOTES

WHEN AN EXISTING STOP SIGN AND SUPPORT IS TO BE REMOVED AND A NEW STOP SIGN AND SUPPORT ERECTED THE WORK SHALL BE DONE CONCURRENTLY. FOR OTHER SIGNS AND SUPPORTS THAT ARE TO BE REMOVED AND NEW SIGNS AND SUPPORTS ERECTED, THE REMOVAL OF THE EXISTING SIGN/SUPPORT AND ERECTION OF THE NEW SIGN/SUPPORT SHOULD BE DONE AS CONCURRENTLY AS POSSIBLE. IN NO CASE SHALL A NEW SIGN/SUPPORT BE DOWN FOR MORE THAN 24 HOURS AND THERE SHALL NOT BE MORE THAN ONE SIGN OF THE SAME LEGEND MISSING IN A ROW.

WOOD POSTS SIZES, FOR TYPE II SIGNING, ARE ESTIMATED LENGTHS AND THE ACTUAL LENGTH WILL BE DETERMINED IN THE FIELD.

THE NUMBER OF "NO PASSING ZONE" SIGNS (W-14-3) ARE ESTIMATED AND THE ACTUAL NUMBER WILL BE DETERMINED AFTER THE ROADWAYS HAVE BEEN SPOTTED.

SIGN-REMOVE EXISTING					
SIGN-REMOVE AND REPLACE					
SIGN-PLACE NEW					
ROJECT NO:1590-16-71	HWY:USH 8	COUNTY: MARINETTE	PERMANENT SIGNING	SHEET	Е
E NAME : N:\spo\traffic\SIGNING\Projects\1590	-16-71 US 8 - MARINETTE CTY\15901671_sgnpln.dq	gn PLOT DATE: 08-N	MAR-2017 12:28 PLOT BY: dotets PLOT NAME:	PLOT SCALE : 100:1 WISDOT/CA	ADDS SHEET 42
		·			

					1590-16-71
Line	Item	Item Description	Unit	Total	Otv
		·			Qty
0010	201.0105	Clearing	STA	7.000	7.000
0020	201.0120	Clearing	ID	40.000	40.000
0030	201.0205	Grubbing	STA	7.000	7.000
0040	201.0220	Grubbing	ID	40.000	40.000
0050	203.0100	Removing Small Pipe Culverts	EACH	1.000	1.000
0060	204.0110	Removing Asphaltic Surface	SY	270.000	270.000
0070	204.0115	Removing Asphaltic Surface Butt Joints	SY	415.000	415.000
0800	204.0125	Removing Asphaltic Surface Milling	TON	31,300.000	31,300.000
0090	204.0150	Removing Curb & Gutter	LF	6,485.000	6,485.000
0100	204.0155	Removing Concrete Sidewalk	SY	1,555.000	1,555.000
0110	204.0165	Removing Guardrail	LF	727.000	727.000
0120	204.0185	Removing Masonry	CY	42.000	42.000
0130	204.0210	Removing Manholes	EACH	7.000	7.000
0140	204.0220	Removing Inlets	EACH	13.000	13.000
0150	204.0245	Removing Storm Sewer (size) 01. 12-Inch	LF	1,395.000	1,395.000
0160	204.0245	Removing Storm Sewer (size) 02. 15-Inch	LF	660.000	660.000
0170	204.0245	Removing Storm Sewer (size) 03. 18-inch	LF	50.000	50.000
0180	205.0100	Excavation Common	CY	1,460.000	1,460.000
0190	208.0100	Borrow	CY	8,919.000	8,919.000
0200	209.2100	Backfill Granular Grade 2	CY	550.000	550.000
0200	211.0100	Prepare Foundation for Asphaltic Paving (project) 01.	LS	1.000	1.000
		Project 1590-16-71			
0220	213.0100	Finishing Roadway (project) 01. Project 1590-16-71	EACH	1.000	1.000
0230	305.0110	Base Aggregate Dense 3/4-Inch	TON	2,315.000	2,315.000
0240	305.0120	Base Aggregate Dense 1 1/4-Inch	TON	1,395.000	1,395.000
0250	416.0160	Concrete Driveway 6-Inch	SY	125.000	125.000
0260	440.4410	Incentive IRI Ride	DOL	114,110.000	114,110.000
0270	455.0605	Tack Coat	GAL	34,060.000	34,060.000
0280	460.2005	Incentive Density PWL HMA Pavement	DOL	44,210.000	44,210.000
0290	460.2010	Incentive Air Voids HMA Pavement	DOL	64,690.000	64,690.000
0300	460.4110.S	Reheating HMA Pavement Longitudinal Joints	LF	150,628.000	150,628.000
0310	460.5223	HMA Pavement 3 LT 58-28 S	TON	36,370.000	36,370.000
0320	460.5224	HMA Pavement 4 LT 58-28 S	TON	28,315.000	28,315.000
0330	465.0105	Asphaltic Surface	TON	365.000	365.000
0340	465.0110	Asphaltic Surface Patching	TON	40.000	40.000
0350	465.0120	Asphaltic Surface Driveways and Field Entrances	TON	80.000	80.000
0360	465.0315	Asphaltic Flumes	SY	10.000	10.000
0370	465.0425	Asphaltic Shoulder Rumble Strips 2-Lane Rural	LF	115,642.000	115,642.000
0380	465.0475	Asphalt Center Line Rumble Strips 2-Lane Rural	LF	59,957.000	59,957.000
0390	520.1015	Apron Endwalls for Culvert Pipe 15-Inch	EACH	2.000	2.000
0390	520.1015	Apron Endwalls for Guivert Pipe 15-Inch	EACH	∠.000	2.000

					1590-16-71
Line	Item	Item Description	Unit	Total	Qty
0760	627.0200	Mulching	SY	28,080.000	28,080.000
0770	628.1504	Silt Fence	LF	11,550.000	11,550.000
0780	628.1520	Silt Fence Maintenance	LF	11,550.000	11,550.000
0790	628.1905	Mobilizations Erosion Control	EACH	4.000	4.000
0800	628.1910	Mobilizations Emergency Erosion Control	EACH	3.000	3.000
0810	628.2004	Erosion Mat Class I Type B	SY	20,350.000	20,350.000
0820	628.7015	Inlet Protection Type C	EACH	26.000	26.000
0830	628.7504	Temporary Ditch Checks	LF	705.000	705.000
0840	628.7555	Culvert Pipe Checks	EACH	45.000	45.000
0850	628.7570	Rock Bags	EACH	200.000	200.000
0860	629.0210	Fertilizer Type B	CWT	30.000	30.000
0870	630.0120	Seeding Mixture No. 20	LB	1,210.000	1,210.000
0880	630.0140	Seeding Mixture No. 40	LB	62.000	62.000
0890	634.0614	Posts Wood 4x6-Inch X 14-FT	EACH	179.000	179.000
0900	634.0616	Posts Wood 4x6-Inch X 16-FT	EACH	111.000	111.000
0910	637.2210	Signs Type II Reflective H	SF	1,219.720	1,219.720
0920	637.2230	Signs Type II Reflective F	SF	528.570	528.570
0930	638.2602	Removing Signs Type II	EACH	252.000	252.000
0940	638.3000	Removing Small Sign Supports	EACH	297.000	297.000
0950	642.5401	Field Office Type D	EACH	1.000	1.000
0960	643.0100	Traffic Control (project) 01. Project 1590-16-71	EACH	1.000	1.000
0970	643.0300	Traffic Control Drums	DAY	4,250.000	4,250.000
0980	643.0310.S	Temporary Portable Rumble Strips	LS	1.000	1.000
0990	643.0410	Traffic Control Barricades Type II	DAY	175.000	175.000
1000	643.0420	Traffic Control Barricades Type III	DAY	75.000	75.000
1010	643.0705	Traffic Control Warning Lights Type A	DAY	3,300.000	3,300.000
1020	643.0715	Traffic Control Warning Lights Type C	DAY	250.000	250.000
1030	643.0900	Traffic Control Signs	DAY	6,560.000	6,560.000
1040	643.1050	Traffic Control Signs PCMS	DAY	14.000	14.000
1050	646.0106	Pavement Marking Epoxy 4-Inch	LF	97,194.000	97,194.000
1060	646.0406	Pavement Marking Same Day Epoxy 4-Inch	LF	96,894.000	96,894.000
1070		Pavement Marking Grooved Wet Reflective Epoxy 4-Inch	LF	140,422.000	140,422.000
1080	646.2308.S	Pavement Marking Grooved Wet Reflective Epoxy 8-Inch	LF	175.000	175.000
1090	649.0402	Temporary Pavement Marking Paint 4-Inch	LF	177,946.000	177,946.000
1100	650.4000	Construction Staking Storm Sewer	EACH	15.000	15.000
1110	650.5500	Construction Staking Curb Gutter and Curb & Gutter	LF	4,885.000	4,885.000
1120	650.8000	Construction Staking Resurfacing Reference	LF	75,314.000	75,314.000
1130	650.9910	Construction Staking Supplemental Control (project) 01.		1.000	1.000

# Estimate Of Quantities Page 4

					1590-16-71
Line	Item	Item Description	Unit	Total	Qty
		Project 1590-16-71			
1140	650.9920	Construction Staking Slope Stakes	LF	33,730.000	33,730.000
1150	690.0150	Sawing Asphalt	LF	10,075.000	10,075.000
1160	690.0250	Sawing Concrete	LF	95.000	95.000
1170	ASP.1T0A	On-the-Job Training Apprentice at \$5.00/HR	HRS	2,400.000	2,400.000
1180	ASP.1T0G	On-the-Job Training Graduate at \$5.00/HR	HRS	3,040.000	3,040.000
1190	SPV.0060	Special 01. HMA Percent Within Limits (PWL) Test Strip	EACH	2.000	2.000
1200	SPV.0180	Special 01. Protective Thermoplastic Coating at Snowmobile Crossing	SY	60.000	60.000

			CLEA	RING AND	GRUBBIN	G		
					201.0105	201.0120	201.0205	201.0220
CATEGORY	STATION	TO	STATION	LOCATION	STA	ID	STA	ID
0010	5	79+2	22	LT		22		22
0010	581+39		LT		18		18	
0010	683+00	-	684+00	LT	1		1	
0010	863+00	-	865+00	LT	2		2	
0010	866+00	-	868+00	RT	2		2	
0010	867+00	-	868+00	LT	1		1	
0010	893+00	-	894+00	LT	1		1	
				<b>TOTALS</b>	7	40	7	40

REMOVING SMALL PIPE CULVERTS											
203.0100											
CATEGORY	STATION	LOCATION	EACH	REMARKS							
0010	682+81	USH 8, LT	1	12" CMCP - 38 LF							
	TOTAL		1	=							

			REMOV	AL SUMMA	<u>ARY</u>		
					204.0110	204.0150	204.0155
					REMOVING	REMOVING	REMOVING
					<b>ASPHALTIC</b>	CURB &	CONCRETE
					SURFACE	GUTTER	SIDEWALK
CATEGORY	STATION	TO	STATION	LOCATION	SY	LF	SY
0010	563+18	_	574+88	RT		1190	610
0010	571+42	_	590+71	LT		1915	215
0010	575+09	_	579+28	RT		490	280
0010	580+16 - 583+80		RT		390	215	
0010	584+05 - 588+30		RT		435	235	
0010	588+65	588+65 - 593+03		RT		465	
0010	635+38	_	638+30	RT	60	290	
0010	1067+15	_	1069+10	RT	25	225	
0010	COUNTY	LIN	NE ROAD	LT & RT	10	105	
0010	C	TH	Н	LT & RT	15	120	
0010	TWIN I	LAKE	E ROAD	LT & RT	15	80	
0010	SNOWS	HOE	DRIVE	LT & RT	65	140	
0010	TEN A	CRE	ROAD	LT & RT	5	150	
0010	SHRI	NE	ROAD	LT	15	35	
0010	PARK	NAY	ROAD	LT & RT	15	145	
0010	C	TH	U	LT & RT	25	125	
0010	C	TH	0	LT & RT	20	185	
				TOTALS	270	6485	1555

		204.0115	
CATEGORY	LOCATION	SY	REMARKS
0010	353+29, USH 8	7	
0010	962+82, USH 8	8	
0010	963+32, USH 8	8	
	1108+26, USH 8	7	
0010	COUNTY LINE ROAD	5	
0010	SANDY LOOP ROAD	4	
0010	CAMP B LOOP ROAD	5	
0010	FRANKS ROAD	5	
0010	СТН Н	6	
0010	ORCHARD ROAD	4	
0010	PARTRIDGE ROAD	6	
0010	TWIN LAKE ROAD	6	
0010	INDUSTRIAL DRIVE	7	
0010	SNOWSHOE ROAD	6	
0010	CLARK LAKE ROAD	6	
0010	A AVENUE	7	
0010	MILL STREET	6	
0010	MAPLE AVENUE	6	
0010	BIRCH AVENUE	6	
0010	BEECH AVENUE	5	
0010	TEN ACRE ROAD	7	
0010	TOWER RD	5	
0010	SHRINE RD	6	
0010	PIKE RIVER DR (EAST)	5	
0010	CTH U	8	
0010	AIRPORT ROAD	5	
0010	3RD ST (EAST)	5	
0010	2ND ST	5	
0010	1ST ST	6	
0010	СТН О	5	
0010	OLD COUNTY A RD	8	
0010	DRIVEWAYS	230	
	TOTAL	415	=

	REMOVING	3 A	SPHALTIC	SURFACE	MILLING				
					204.0125				
CATEGORY	STATION		STATION	LOCATION	TON	REMARKS			
0010	353+29	-	380+30	USH 8	990				
0010	380+30		395+98	USH 8	575				
0010	395+98	_	425+70	USH 8	1,090				
0010	425+70		432+56	USH 8	250	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			
0010	432+56	_	471+93	USH 8	1,645				
0010	471+93	-	503+83	USH 8	1,325				
0010	503+83		536+18	USH 8	1,345				
0010	536+18		562+18	USH 8	1,080				
0010	562+18	_	563+18	USH 8	60				
0010	563+18		593+03	USH 8	2,345	1			
0010	593+03	-	594+03	USH 8	60				
0010	594+03	_	601+03	USH 8	290				
0010	593+03	_	630+36	USH 8	1,220				
0010	630+36	-	642+20	USH 8	490				
0010	643+41 -		673+17	USH 8	1,235				
0010	673+17	-	702+11	USH 8	1,205				
0010	702+11	-	768+83	USH 8	2,445				
0010	768+83	-	800+19	USH 8	1,150				
0010	800+19	-	881+82	USH 8	2,995	•			
0010	881+82	-	962+82	USH 8	2,970				
0010	963+32	-	982+33	USH 8	700				
0010	982+46	-	1001+23	USH 8	690				
0010	1001+23	-	1058+06	USH 8	2,095				
0010	1058+06	-	1066+64	USH 8	315				
0010	1066+64	-	1085+00	USH 8	685				
0010	1085+00	-	1108+27	USH 8	855				
0010	CC	UNT	Y LINE RO	AD	44				
0010	S	AND	Y LOOP RO	AD	40				
0010			B LOOP RO		42				
0010			ANKS ROAD		43				
0010			CTH H		45				
	SUBTOTAL 30,319								

0010 0010 0010	TWIN LAKE ROAD  INDUSTRIAL DRIVE  SNOWSHOE DRIVE	36 28 47	
0010 0010	CLARK LAKE ROAD  A AVENUE	36 40	
0010 0010	MILL STREET MAPLE AVENUE	23 14	
0010 0010	BIRCH AVENUE BEECH AVENUE	14 18	
0010 0010	TEN ACRE ROAD TOWER ROAD	37 43	
0010 0010	SHRINE ROAD PARKWAY ROAD (CTH I)	37 35	
0010 0010	FOREST ROAD 607	31 28	
0010 0010 0010	PIKE RIVER DR (WEST)  JACK PINE DRIVE	28 41	
0010	PIKE RIVER DR (EAST)	32	
0010	AIRPORT ROAD	34	
0010 0010	GASSETT ROAD  3RD STREET EAST	19 32	
0010 0010	3RD STREET WEST 2ND STREET	19 20	
0010 0010	1ST STREET OLD COUNTY A ROAD	27 42	
0010 0010	CTH 0 DRIVEWAYS	55 65	

	REMO	VI	NG GUARD	RAIL					
					201 2125				
					204.0165				
CATEGORY	STATION	TO	STATION	LOCATION	LF				
0010	564+74		565+25	LT	51				
0010	571+27	-	571+91	LT	64				
0010	681+05	-	681+56	RT	51				
0010	683+24	-	683+75	LT	51				
0010	686+70	-	687+21	RT	51				
0010	688+63	-	689+14	LT	51				
0010	837+56	-	838+08	RT	51				
0010	839+73	-	840+24	LT	51				
0010	847+04	-	847+56	RT	51				
0010	847+21	-	847+73	LT	51				
0010	960+19	-	960+70	RT	51				
0010	961+06	-	961+57	LT	51				
0010	964+32	-	964+84	RT	51				
0010	966+20	-	966+71	LT	51				
				TOTALS	727				
				<del>-</del>					

		REMOV	ING MASO	NRY						
	204.0185									
CATEGORY	STATION	LOCATION	CY	REMARKS						
0010	442+70	RT	10	DITCH CHECK						
0010	443+17	RT	10	DITCH CHECK						
0010	443+70	RT	10	DITCH CHECK						
0010	444+20	RT	10	DITCH CHECK						
0010	563+19	LT	1	ENDWALL						
0010	581+27	LT	1	CONCRETE COLLAR AT INLET						
	TOTALS 42									

REMOVING STORM SEWER STRUCTURES										
			204.0210	204.0220						
			MANHOLES	INLETS						
CATEGORY	STATION	LOCATION	EACH	EACH						
0010	572+87	RT		1						
0010	573+78	LT	1							
0010	573+88	LT		1						
0010	574+25	RT		1						
0010	575+07	LT		1						
0010	575+17	LT	1							
0010	577+06	LT		1						
0010	577+07	RT		1						
0010	577+17	LT	1							
0010	578+57	RT		1						
0010	578+67	LT		1						
0010	579+82	LT	1							
0010	580+30	RT		1						
0010	581+18	LT	1							
0010	581+29	LT		1						
0010	583+94	LT	1							
0010	584+38	LT		1						
0010	584+02	RT		1						
0010	586+75	LT	1							
0010	589+01	RT		1						
		<b>TOTALS</b>	7	13						

	REMOVING STORM SEWER										
					2	204.0245.0	204.0245.02	204.0245.03			
						12-INCH	15-INCH	18-INCH			
CATEGORY	STATION	LOCATION	TO	STATION	LOCATION	LF	LF	LF			
0010	572+87	RT	-	573+78	LT	100					
0010	574+25	RT	-	573+88	LT	70					
0010	573+88	LT	-	573+78	LT	10					
0010	573+78	LT	-	575+17	LT	135					
0010	575+07	LT	-	575+17	LT	10					
0010	575+17	LT	-	577+17	LT	195					
0010	577+07	RT	-	577+06	LT	40					
0010	577+06	LT	-	577+17	LT	15					
0010	577+17	LT	-	579+82	LT		255				
0010	578+57	RT	-	578+67	LT	35					
0010	578+67	LT	-	579+82	LT	115					
0010	579+82	LT	-	579+97	RT			50			
0010	580+30	RT	-	579+82	LT	80					
0010	581+18	LT	-	579+82	LT		130				
0010	581+29	LT	-	581+18	LT	15					
0010	583+94	LT	-	581+18	LT		275				
0010	584+40	RT	-	584+02	LT	50					
0010	584+02	LT	-	583+94	LT	10					
0010	586+75	LT	-	583+94	LT	285					
0010	589+01	RT	-	586+75	LT	230					
					TOTALS	1395	660	50			

# **EARTHWORK SUMMARY**

DIVISION	ISION Location Excavat		.0100	Salvaged/ Unusable Material	Available Material (4)	Unexpanded Fill	Expanded Fill (5)	Mass Ordinate +/- (6)	<b>Borrow</b> Item # 208.0100	Comment:
		Cut (2)	EBS Excava tion (3)				Factor 1.20		Factor 1.20	
	SLOPE FLATTENING BEGIN PROJECT - STA. 415+00	62	0	0	62	838	1,006	-944		
	SLOPE FLATTENING STA. 415+00 - STA. 500+00	190	0	0	190	680	816	-626		
	SLOPE FLATTENING STA. 500+00 - 700+00	115	0	0	115	486	583	-468		
	SLOPE FLATTENING STA. 700+00 - 830+00	60	0	0	60	1,572	1,886	-1,826		
1	SLOPE FLATTENING STA. 830+00 - END PROJECT	25	0	0	25	3,515	4,218	-4,193		
	GUARDRAIL STA. 679+72 - STA. 690+47	1	0	0	1	235	282	-281		
	GUARDRAIL STA. 836+39 - STA. 848+00	2	0	0	2	322	386	-384		
	GUARDRAIL STA. 959+01 - 967+89	9	0	0	9	69	83	-74		
	TOWN OF GOODMAN	996	0	996	0	102	122	-122		
Total		1,460	0	996	464		9,383	-8,919	8,919	
		Total Common E	x 1,460							

- 1) Excavation Common is the sum of the Cut and EBS Excavation columns. Item number 205.0100
- 2) Salvaged/Unsuable Material is included in Cut. Volume of concrete pavement to be removed is included in salvaged/unusable material.
- 4) Available Material = Cut Salvaged/Unusuable Material
- 5) Expanded Fill Factor = 1.20 Expanded Fill = Unexpanded Fill \* Fill Factor. No Rock, Marsh, or EBS will be used in fill on this project.
- 6) The Mass Ordinate + or Qty calculated for the Division. Plus quantity indicates an excess of material within the Division. Minus indicates a shortage of material within the Division.

BACKFILL GRANULAR GRADE 2

209.2100

CATEGORY LOCATION CY

0010 GOODMAN STORM SEWER 550

TOTAL 550

PRE	PREPARE FOUNDATION FOR ASPHALTIC PAVING											
					211.0100							
CATEGORY	STATION	TO	STATION	LOCATION	LS							
0010	353+29.42	_	962+72.39	USH 8	1							
0010	963+32.47	_	1108+26.55	USH 8	<b>-</b>							
TOTAL												

	BASE AGGREGATE DENSE											
					305.0110 3/4-INCH	305.0120 1-1/4-INCH						
CATEGORY	STATION	то	STATION	LOCATION	TON	TON	REMARKS					
0010	353+29	_	432+56	USH 8	205							
0010	432+56	-	571+42	USH 8	360							
0010	563+17	_	593+03	USH 8		1210						
0010	591+87	_	702+18	USH 8	360							
0010	702+18	_	1001+23	USH 8	950							
0010	1001+23	-	1067+09	USH 8	170							
0010	1067+09	_	1072+83	USH 8	5							
0010	1082+67	_	1084+32	USH 8	5							
0010	1084+32	_	1108+27	USH 8	65							
0010	CURB &	GUT	TER REPLA	CEMENTS		185						
0010		S	IDEROADS		95							
0010		D	RIVEWAYS		100							
TOTALS 2315 1395												

## **HMA PAVEMENT SUMMARY**

					455 0005	LIMA DAV	VENENIT 2 LT	F0 30 C	LIMA BAN	EMENT 4 LT	F0 30 C	460.4110.S	
					455.0605	HMA PAV	EMENT 3 LT PWL	28-28 S PWL	HMA PAV	EMENT 4 LT :	28-28 S PWL	REHEATING HMA PAVEMENT	
					TACK		DENSITY	AIR		DENSITY	AIR	LONGITUDINAL	
					COAT	460.5223	INCENTIVE	VOIDS	460.5224	INCENTIVE	VOIDS	JOINTS	
CATEGORY	STATION	то	STATTON	LOCATION	GAL	TON	TON*	TON**	TON	TON*	TON**		REMARKS
0010	353+29	-	380+30	USH 8	1155	1260	890	370	985	695	290	5403	The state of the s
0010	380+30	-	395+98	USH 8	670	735	520	215	575	405	170	3135	
0010	395+98	- 1	425+70	USH 8	1270	1390	980	410	1085	765	320	5944	
0010	425+70	-	432+56	USH 8	295	325	230	95	250	175	75	1372	
0010	432+56	-	471+93	USH 8	1795	1850	1300	550	1435	1010	425	7874	
0010	471+93	_	503+83	USH 8	1450	1495	1055	440	1160	820	340	6380	
0010	503+83	-	536+18	USH 8	1470	1515	1070	445	1175	830	345	6470	
0010	536+18	-	562+18	USH 8	1180	1220	860	360	945	665	280	5200	
0010	562+18	-	563+18	USH 8	45	50	35	15	35	25	10	200	
0010	563+18	_	593+03	USH 8	1265	1280	985	295	970	765	205	5970	ADDITIONAL 30 TONS FOR WEDGING 569+50 TO 570+75, USH 8 RT
0010	593+03	-	594+03	USH 8	45	50	35	15	35	25	10	200	
0010	594+03	-	601+03	USH 8	320	325	230	95	255	180	75	1400	
0010	601+03	-	630+36	USH 8	1330	1375	970	405	1070	755	315	5866	
0010	630+36	-	642+20	USH 8	540	555	390	165	430	305	125	2368	
0010	643+41	_	673+17	USH 8	1350	1390	980	410	1085	765	320	5953	
0010	673+17	-	702+11	USH 8	1320	1365	955	410	1065	745	320	5788	
0010	702+11	-	768+83	USH 8	2850	3115	2200	915	2430	1715	715	13344	
0010	768+83	-	800+19	USH 8	1340	1465	1035	430	1140	805	335	6272	
0010	800+19		881+82	USH 8	3490	3830	2695	1135	2980	2095	885	16326	
0010	881+82	-	962+82	USH 8	3460	3795	2675	1120	2950	2080	870	16201	
0010	963+32	-	982+33	USH 8	815	895	625	270	700	490	210	3802	
0010	982+46		1001+23	USH 8	800	880	620	260	680	480	200	3754	
0010	1001+23		1058+06	USH 8	2440	2670	1875	795	2075	1460	615	11366	
0010	1058+06		1066+64	USH 8	370	405	285	120	310	220	90	1716	
0010	1066+64		1085+00	USH 8	770	815	605	210	690	470	220	3672	
0010	1085+00	************	1108+27	USH 8	500	1090	770	320	845	595	250	4653	
0010		~~~~~	Y LINE RO		550	44		44	35		35		
0010			LOOP ROA		45	40		40	31		31		
0010	CA	~~~~	B LOOP RO	AD	40	44		44	34		34		
0010			NKS ROAD		45	44		44	34		34		
0010			CTH H		45	47		47	36		36		

SUBTOTALS 33060 35359 24870 10489 27525 19340 8185 150628

<sup>\*</sup>TONNAGE IS ELIGIBLE FOR INCENTIVE DENSITY PWL 460.2005 AND INCENTIVE AIR VOIDS 460.2010.

<sup>\*\*</sup>TONNAGE IS ELIGIBLE FOR INCENTIVE AIR VOIDS 460.2010 AND DENSITY IS TESTED FOR ACCEPTANCE IN THOSE AREAS.

## **HMA PAVEMENT SUMMARY**

				455 0605			50.20.0			50.20.5	460.4110.S	
				455.0605	HMA PAV	EMENT 3 LT		HMA PAV	EMENT 4 LT		REHEATING HMA	
				T1 C1		PWL	PWL		PWL	PWL	PAVEMENT	
				TACK	460 5333	DENSITY	AIR	460 5334	DENSITY	AIR	LONGITUDINAL	
CATEGORY/			LOCATION	COAT	460.5223	INCENTIVE	VOIDS	460.5224	INCENTIVE	VOIDS	JOINTS	DEMARKS
		TO STATION	•	GAL	TON	TON**	TON*	TON	TON*	TON**	LF	REMARKS
0010		RCHARD DRIV		40	41		41	31		31		
0010		RTRIDGE ROA		25	27		27	21		21		
0010		/IN LAKE ROA		40	42		42	32		32		
0010		DUSTRIAL DRI		30	31		31	25		25		
0010		OWSHOE DRIV		55	54		54	43		43		
0010	CL	ARK LAKE RO	AD	40	40		40	33		33		
0010		A AVENUE		50	50		50	39		39		
0010		MILL STREET		30	27		27	22		22		
0010		APLE AVENUE		15	13		13	10		10		
0010	В	BIRCH AVENUE		15	17		17	13		13		
0010	В	BEECH AVENUE		25	26		26	20		20		
0010	T	EN ACRE ROA	D	40	43		43	33		33		
0010		TOWER ROAD		45	48		48	37		37		
0010		SHRINE ROAD		45	42		42	33		33		
0010	PARKW	AY ROAD (CT	TH I)	40	42		42	32		32		
0010	FO	REST ROAD 6	13	30	30		30	24		24		
0010	FO	REST ROAD 6	07	30	28		28	22		22		
0010	PIKE R	IVER DRIVE	(WEST)	30	28		28	22		22		
0010	JA	CK PINE DRI	VE	40	42		42	33		33		
0010	PIKE R	IVER DRIVE	(EAST)	30	32		32	25		25		
0010		CTH U		40	42		42	32		32		
0010	Д	IRPORT ROAD	)	35	35		35	27		27		
0010	G	SASSETT ROAD	)	25	24		24	19		19		
0010	3RI	D STREET EA	ST	35	35		35	27		27		
0010		D STREET WE		15	16		16	13		13		
0010		2ND STREET		20	21		21	17		17		
0010		1ST STREET		30	31		31	24		24		
0010		COUNTY A R	OAD	45	45		45	35	İ	35		
0010		CTH O		60	59		59	46		46		
								· .			•	

SUBTOTALS 1000 1011 1011 790 790 0 8975 TOTALS 34060 36370 24870 11500 28315 19340 150628

<sup>\*</sup>TONNAGE IS ELIGIBLE FOR INCENTIVE DENSITY PWL 460.2005 AND INCENTIVE AIR VOIDS 460.2010.

<sup>\*\*</sup>TONNAGE IS ELIGIBLE FOR INCENTIVE AIR VOIDS 460.2010 AND DENSITY IS TESTED FOR ACCEPTANCE IN THOSE AREAS.

ASPHALTIC SURFACE SUMMARY										
		465.0105	465.0110	465.0120						
				ASPHALTIC						
			ASPHALTIC	SURFACE						
		ASPHALTIC	SURFACE	DRIVEWAYS &						
		SURFACE	PATCHING	FIELD ENTRANCES						
CATEGORY	LOCATION	TON	TON	TON	REMARKS					
0010	CURB & GUTTER REMOVAL/REPLACEMENT	230								
0010	STORM SEWER REMOVAL/REPLACEMENT	135								
0010	TEN ACRE ROAD RAILROAD CROSSING									
0010	CTH U RAILROAD CROSSING									
0010	DRIVEWAYS			80						
0010	UNDISTRIBUTED		40							
	TOTALS	365	40	80						

	ASPHALTIC FLUMES		
		465.0315	
CATEGORY	LOCATION	SY	REMARKS
0010	CTH U, LT & RT	10	
	TOTALS	10	

ASPHALTIC CENTER LINE RUMBLE STRIPS  2-LANE RURAL										
				465.0475						
CATEGORY	STATION	TO	STATION	LF						
0010	356+02	-	378+30	2229						
0010	382+30	-	393+98	1168						
0010	392+98	- 1	423+70	3072						
0010	427+70	-	430+56	286						
0010	434+56	-	459+10	2454						
0010	461+10	-	469+93	883						
0010	476+08	-	501+83	2575						
0010	505+83	- 1	530+18	2435						
0010	538+19	-	545+75	756						
0010	550+00	-	559+12	913						
0010	591+75	-	599+03	728						
0010	603+03	-	628+36	2533						
0010	632+36	- 1	634+50	214						
0010	639+00	- 1	671+17	3097						
0010	675+17	-	700+11	2494						
0010	704+11	-	766+83	6272						
0010	770+83	-	774+71	389						
0010	778+71	-	781+02	231						
0010	785+02	-	798+19	1317						
0010	802+19	-	879+82	7763						
0010	883+82	-	962+57	7875						
0010	963+57	-	999+23	3553						
0010	1003+23	-	1056+06	5283						
0010	1090+00	-	1104+37	1437						
			TOTAL	59957						

AS	PHALTIC S	HOULDER	RUMBLE S	TRIPS 2-	LANE RUE	AL (TYP	E 1	D.	
USH 8	<u>LEFT</u>	465.0425				<u>USH</u>	8	<u>RIGHT</u>	465.0425
CATEGORY STATION TO	STATION	465.0425 LF			CATEGORY	STATION	то	STATION	465.0425 LF
0010   355+20   -	378+65	2345			0010	35329	-	35545	216
0010 381+50 -	396+80	1530			0010	35615	_	35995	380
0010 397+50 -	416+30	1880			0010	36060	_	37770	1710
0010 417+40 -	428+95	1155			0010	37840	_	39515	1675
0010 429+75 -	430+85	110			0010	39710		41830	2120
0010 435+85 -	451+50	1565			0010	41900		42055	155
0010 452+40 -	453+75	135 135			0010 0010	42130 42695	_	42465	335 315
0010   454+60   - 0010   456+80   -	455+95 468+10	1130			0010	42695	_	43010 439+30	535
0010 450+80 -	470+50	155			0010	440+45	_	453+85	1340
0010 475+50 -	483+50	800			0010	454+70	_	458+75	405
0010 484+45 -	502+00	1755			0010	461+05	_	464+60	355
0010 502+90 -	503+45	55			0010	465+65	_	501+70	3605
0010 504+35 -	505+60	125			0010	505+15	_	506+30	115
0010 507+60 -	518+90	1130			0010	507+40	_	510+00	260
0010 520+00 -	528+55	855			0010	512+40	-	531+35	1895
0010 529+50 -	534+90	540			0010	533+40	_	545+50	1210
0010 537+55 -	544+35	680			0010	593+03	-	629+50	3647
0010 591+75 -	599+60	785			0010	632+40	_	634+00	160
0010   602+30   -	642+05	3855			0010	639+85	-	644+30	325
0010 644+00 -	647+00	300			0010	646+45	-	649+90	345
0010 647+95 -	655+00	705			0010	650+70	_	658+70	800
0010 655+75 -	656+60	85			0010	659+45		669+85	1040
0010 657+25 -	659+70	245			0010	670+70	-	685+25	1455
0010 660+35 -	662+25	190			0010	690+40		692+25	185
0010 663+00 -	666+75	375			0010	693+10	_	694+70	160
0010 667+60 -	669+75	215 130			0010 0010	695+40		697+65	225
0010   670+60   - 0010   674+45   -	671+90 676+90	245			0010	698+45 703+70	_	701+00 724+75	255 2105
0010 677+25 -	681+60	435			0010	733+20	_	775+90	4270
0010 683+25 -	685+25	200			0010	778+25	_	782+35	410
0010 690+40 -	694+00	360			0010	784+70		832+20	4750
0010 694+85 -	700+00	515			0010	833+25	_	833+75	50
0010 700+75 -	703+60	285			0010	841+20	_	845+50	430
0010 704+35 -	706+30	195			0010	854+30	_	870+50	1620
0010 707+00 -	708+05	105			0010	877+10	_	881+05	395
0010 708+85 -	710+05	120			0010	883+15	-	905+25	2210
0010 710+85 -	711+95	110			0010	906+05	-	962+50	5645
0010 712+75 -	724+75	1200			0010	963+50	-	964+25	75
0010   733+20   -	767+15	3395			0010	966+75	-	1042+60	7572
0010 769+75 -	798+80	2905			0010	1043+60	-	1057+25	1365
0010 801+45 -	823+80	2235			0010	1050+80		1063+00	1220
0010 824+05 -	832+25	820	annango.		0010	1090+00		1091+25	125
0010 833+20 -	833+75	55			0010	1092+20	-	1099+05	685
0010 841+20 -	845+50	430			0010	1099+95		1101+70	175
0010 854+30 - 0010 877+10 -	870+50	1620 1375			0010	1102+50		1105+80	330
0010 877+10 -	890+85 907+30	1500						SUBTOTAL	FOEFF
0010 892+30 -	910+40	235						SUBTUTAL	20022
0010 908+03 -	943+40	3220							
0010 911+20 -	962+60	1835							
0010 963+60 -	999+60	3587	and the state of t						
0010 1003+90 -	1057+25	5335							
0010 1058+80 -	1063+00	420							
0010 1089+75 -	1091+45	170	9000000						
0010 1092+40 -	1103+55	1115							
	SUBTOTAL	56987	:						
			TOTAL:	115642					
			TOTAL.	113042					

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					CULV	ERT PIPE SUM	MARY							
	520.1015 APRON	520.3315	521.0124 CULVERT	521.1024 APRON	521.1030 APRON	522.0130	522.0142 CULVERT PIPE	524.0630 APRON	524.0636 APRON	524.0642 APRON	520.8000	611.9800.S		
	ENDWALLS	CULVERT	PIPE	ENDWALLS	ENDWALLS	REINFORCED	REINFORCED			ENDWALLS FOR	CONCRETE			
	FOR CULVERT		CORRUGATED		FOR CULVERT		CONCRETE			CULVERT PIPE				MINIMUM
	PIPE	CLASS III-A		PIPE STEEL		CLASS III	CLASS III	SALVAGED	SALVAGED	SALVAGED	FOR	PIPE	JOINT	THICKNESS
	15-INCH	15-INCH	24-INCH	24-INCH	30-INCH	30-INCH	42-INCH	30-INCH	36-INCH	42-INCH	PIPE	GRATES	TIES	INCHES
CAT. STATION LOCATION	EACH	LF	LF	EACH	EACH	LF	LF	EACH	EACH	EACH	EACH	EACH	EACH	STEEL
0010 409+26 USH 8, LT						4		1			1		2	
0010 549+89 USH 8, LT				1										
0010 563+19 USH 8, LT				1										
0010 682+81 USH 8, LT	2	36												0.064
0010 805+76 USH 8, LT					1									
0010 819+75 USH 8, LT & RT	-			2										
0010 863+28 USH 8, LT			4	1							1			0.064
0010 867+33 USH 8, LT & RT			12	2							2			0.064
0010 896+67 USH 8, LT							4			1	1		2	
0010 901+06 USH 8, LT & RT						14		2			2		4	
0010 971+92 USH 8, LT & RT									2				4	
0010 1088+18 USH 8, LT												1		
TOTAL	2	36	16	7	1	18	4	3	2	1	7	1		

ANCILLARY CONCRETE										
					601.0411	601.0557 CONCRETE	601.0600	602.0405	416.0160	602.0505 CURB
					CONCRETE	RB & GUTT	ER			RAMP
					CURB & GUTTER	INCH SLOP	CONCRETE	CONCRETE	CONCRETE	DETECTABLE
					30-INCH	36-INCH	CURB	SIDEWALK	DRIVEWAY	WARNING FIELD
					TYPE D	TYPE D	PEDESTRIAN	4-INCH	6-INCH	YELLOW
CATEGORY	STATION	TO	STATION	LOCATION	LF	LF	LF	SF	SY	SF
0010	563+18		574+88	RT	1190		17	6010		10
0010	571+42	_	590+71	LT	1915		34	1875	26	20
0010	575+09	-	579+28	RT	490		14	2175	65	42
0010	580+16	_	583+80	RT	390		45	1810	34	66
0010	584+05	-	588+30	RT	435		35	2375		52
0010	588+65		593+03	RT	465					
0010	635+38	_	638+30	RT		290				
0010	1067+15		1069+10	RT	225					
0010	COUNTY	LI	NE ROAD	LT & RT		105				
0010	C	TH	H	LT & RT		120				
0010	TWIN L	_AKI	ROAD	LT & RT		80				
0010	SNOWS	10E	DRIVE	LT & RT		140				
0010	TEN A	CRE	ROAD	LT & RT		150				
0010	SHRI	NE	ROAD	LT		35				,
0010	PARKV	VAY	ROAD	LT & RT		145				
0010	C	TH	U	LT & RT		125				
0010	C	TH	0	LT & RT		185		***************************************		
				TOTALS	5110	1375	145	14245	125	190

	STORM SEWER PIPE SUMMARY											
			608.0312 STORM SEWER PIPE REINFORCED CONCRETE CLASS III	608.0318 STORM SEWER PIPE REINFORCED CONCRETE CLASS III	608.0324 STORM SEWER PIPE REINFORCED CONCRETE CLASS III	608.0412 STORM SEWER PIPE REINFORCED CONCRETE CLASS IV						
	FROM	TO	12-INCH	18-INCH	24-INCH	12-INCH	INLET	DISCHARGE	SLOPE			
CATEGORY	STRUCTURE	STRUCTURE	LF	LF	LF	LF	ELEVATION	ELEVATION	%	REMARKS		
0010	IN 3	IN 5	107				1382.11	1381.58	0.50			
0010	in 6	IN 5				61	1382.36	1382.09	0.44			
0010	IN 5	IN 7			117		1379.33	1378.98	0.30			
0010	IN 7	IN 9			194		1378.98	1378.40	0.30			
0010	IN 9	IN 12			158		1378.40	1377.93	0.30			
0010	IN 12	MH 13			112		1377.93	1377.59	0.30			
0010	IN 10	IN 9	34				1381.86	1380.72	3.93			
0010	IN 11	IN 12	35				1381.46	1380.45	2.87			
0010	IN 15	MH 13	80				1380.90	1380.55	0.44			
0010	MH 13	EXIST		50			1377.59	1377.09	1.00	FIELD VERIFY EXISTING ELEVATION AT CONNECTION		
0010	IN 22	MH 21	231				1388.57	1385.11	1.50			
0010	MH 21	IN 19			237		1384.10	1381.53	1.08			
0010	IN 19	IN 16			307		1381.53	1380.46	0.35			
0010	IN 16	NH 13			143		1380.46	1379.96	0.35			
0010	IN 20	IN 19	34				1383.03	1382.36	1.94			
		TOTAL	521	50	1268	61	=					

	STORM SEWER STRUCTURE SUMMARY																			
					611.0530	611.0624	611.0639	611.2004	611.2006	611.3004	611.3230	611.8115	520.8000	628.7015	650.4000					
													CONCRETE							
					MANHOLE	INLET	INLET	MANHOLES	MANHOLES	INLETS		ADJUSTING	COLLARS	INLET	CONSTRUCTION					
					COVERS	COVERS	COVERS	4-FT	6-FT	4-FT	INLETS	INLET	FOR	PROTECTION	STAKING		TOP OF			
!	STRUCTURE				TYPE J	TYPE H	TYPE H-S	DIAMETER	DIAMETER	DIAMETER	2x3-FT	COVERS	PIPE	TYPE C	STORM SEWER	RIM	STRUCTURE	FLOWLINE		
CATEGORY	NO.	STATION	OFFSET	LOCATION	EACH	EACH	EACH	EACH	ELEVATION	ELEVATION	ELEVATION	DEPTH	REMARKS							
0010		571+32	17.8	USH 8, RT								1								
0010	IN 3	572+87	18.3	USH 8, RT			1			1				2	1	1385.24	1384.24	1382.11	2.13	
0010	IN 5	573+88	18.8	USH 8, LT		1				1				2	1	1385.01	1384.01	1379.33	4.68	
0010	IN 6	574+29	29.5	USH 8, RT		1					1			2	1	1385.81	1384.81	1382.36	2.45	
0010	IN 7	575+07	17.9	USH 8, LT		1				1				2	1	1384.46	1383.46	1378.98	4.48	
0010	IN 9	577+06	17.5	USH 8, LT		1				1				2	1	1384.13	1383.13	1378.40	4.73	
0010	IN 10	577+07	16.7	USH 8, RT		1					1			2	1	1385.06	1384.06	1381.86	2.20	
0010	IN 11	578+57	16.8	USH 8, RT			1				1			2	1	1384.82	1383.82	1381.46	2.36	
0010	IN 12	578+67	17.2	USH 8, LT			1			1				2	1	1383.92	1382.92	1377.93	4.99	
0010	MH 13	578+82	24.7	USH 8, LT	1				1				1		1	1385.04	1383.79	1377.59	6.20	
0010	IN 15	580+30	39.1	USH 8, RT		1					1			2	1	1385.00	1384.00	1380.90	3.10	
0010	IN 16	581+29	17.1	USH 8, LT		1				1				2	1	1385.16	1384.16	1380.46	3.70	
0010	IN 19	584+38	17.7	USH 8, LT		1				1				2	1	1385.75	1384.75	1381.53	3.22	
0010	IN 20	584+40	16.4	USH 8, RT		1					1			2	1	1385.86	1384.86	1383.03	1.83	
0010	MH 21	586+75	26.9	USH 8, LT	1			1							1	1389.52	1388.27	1384.10	4.17	
0010	IN 22	589+01	19.1	USH 8, RT		1					1			2	1	1392.61	1391.61	1388.57	3.04	
	***************************************															_				
				TOTAL	2	10	3	1	1	7	6	1	1	26	15	-				

				<u>GUA</u>	RDRAIL SUMMARY				
					614.0370	614.0397	614.0400	614.0950	
					STEEL PLATE	GUARDRAIL	ADJUSTING	REPLACING	
					BEAM GUARD	MOW STRIP	STEEL	GUARDRAIL	
					ENERGY ABSORBING	EMULSIFIED	PLATE BEAM	POSTS &	
					TERMINAL	ASPHALT	GUARD	BLOCKS	
CATEGORY	STATION	T0	STATION	LOCATION	EACH	SY	LF	EACH	REMARKS
0010	564+75	-	571+77	USH 8, LT	2	30		5	
	681+05	-	686+70	USH 8, RT	2	60		10	
	683+24	-	688+63	USH 8, LT	2	60		5	
	837+56	-	847+04	USH 8, RT	2	60	870	10	
	839+73	-	847+21	USH 8, LT	2	60	675	10	
	960+19	_	964+32	USH 8, RT	2	60	315	5	
	961+06	-	966+20	USH 8, LT	2	60	415		
				TOTALS	14	390	2275	45	

			WATER
		624.0100 WATER	
CATEGORY	LOCATION	MGAL	REMARKS
0010	USH 8	20	UNDISTRIBUTED - FOR AGGREGATE COMPACTION
	TOTALS	20	

FINISHING											
					625.0100	627.0200	628.2004	629.0210	630.0120	630.0140	
							EROSION MAT		SEEDING	SEEDING	
							CLASS I	FERTILIZER	MIXTURE	MIXTURE	
					TOPSOIL	MULCHING	TYPE B	TYPE B	NO. 20	NO. 40	
CATEGORY	STATION	то	STATION	LOCATION	SY	SY	SY	CWT	LB	LB	
0010	358+75	_	361+25	RT	370	370		0.23	10.0		
0010	368+75	-	372+50	LT	760		760	0.48	20.4		
0010	375+00	_	379+50	LT	940		940	0.59	25.3		
0010	379+75	-	382+25	RT	730		730	0.46	19.6		
0010	384+75	-	385+75	LT	125	125		0.08	3.4		
0010	398+50	-	404+00	RT	885	885		0.56	23.8		
0010	400+50	-	404+00	LT	580	580		0.37	15.7		
0010	406+75	_	410+00	RT	435	335	100	0.27	11.8		
0010	409+25	_	410+25	LT	90	90		0.06	2.4		
0010	413+25	-	415+50	RT	155	155		0.1	4.1		
0010	420+50	-	425+50	LT	400	400		0.25	10.9		
0010	430+00	_	431+75	LT	250	250		0.16	6.8		
0010	436+00	-	439+75	LT	525	525		0.33	14.2		
0010	443+50	_	448+00	LT	515		515	0.32	13.9		
0010	442+50	-	446+75	RT	580		580	0.37	15.7		
0010	449+25	_	456+25	LT	775		775	0.49	20.9		
0010	457+75	-	458+50	LT	70	70		0.04	1.9	•	
0010	459+25		460+50	LT	175		175	0.11	4.8		
0010	461+75	-	463+75	LT	335	335		0.21	9	•	
0010	465+25		467+50	LT	260	260		0.16	7		
0010	470+75		475+75	RT	675	675		0.42	18.2	•	
0010	477+25		479+50	LT	350		350	0.22	9.5		
0010	477+50		479+25	RT	240		240	0.15	6.4		
0010	482+00		489+50	LT	940	940		0.59	25.4		
0010	485+75		490+75	RT	860	860		0.54	23.3	***************************************	
0010	492+75		499+00	RT	1050		1050	0.66	28.3		
0010	496+00	_	496+75	LT	75	75		0.04	1.9	***************************************	
0010	502+50		507+00	LT	730	730		0.46	19.7		
0010	545+25	-	546+50	LT	105	105		0.07	2.8		
0010	549+50	-	551+75	LT	365	365		0.23	9.9		
0010	552+50		553+50	LT	105	105		0.06	2.8		
0010	556+50	_	560+50	LT 0 DT	540	540		0.34	14.6	F.C	
0010 0010	563+10 649+50	_	593+00 652+00	LT & RT	3100 285	3100 285		1.95 0.18	7 6	56	
0010	667+75	$\vdash$	668+00	LT	120	120		0.18	7.6 3.2	***************************************	
0010	677+25		684+00	LT LT	625	120	625	0.39	16.8		
0010	677+25	$\vdash$	681+60	RT	315		315	0.39	16.6		
0010	685+70		688+50	RT	365		365	0.23	9.9		
0010	688+60		696+50	LT	660		660	0.42	17.9		
0010	696+25		699+00	RT	240		240	0.42	0		
0010	698+00	_	699+50	LT	190	190	240	0	0		
0010	704+50	$\vdash$	710+25	RT	425	425		0	0		
2010	, 07130		1 ±U1 £J	I IXI	TLJ	TLJ	1		<u> </u>		
			SUBTOTALS:		21315	12895	8420	13.05	476.4	56	
							0.20	_5.05			

FINISHING CONT.											
					625.0100	627.0200	628.2004 EROSION MAT CLASS I	629.0210	630.0120 SEEDING MIXTURE	630.0140 SEEDING MIXTURE	
					TODCOTI	MUL CUTNO	TYPE B		NO. 20	NO. 40	
CATECORY	STATION	то	STATION	LOCATION	TOPSOIL	MULCHING	SY	TYPE B CWT	NO. 20 LB		
CATEGORY 0010	711+00	T0	719+00	LOCATION RT	SY 1160	SY 1160	31	0.73	31.2	LB	
0010	711+00	$\vdash$	719+00	RT	105	105		0.73	2.8	***************************************	
0010	731+00		733+75	RT	490	103	490	0.31	13.2		
0010	731+50		733+75	LT	310		310	0.19	8.3	•	
0010	741+50		744+00	RT	290	290	310	0.19	7.8		
0010	741+30		744+00	RT	320	290	320	0.2	8.7		
0010	784+25		788+25	RT	745		745	0.2	20.1		
0010	792+25		793+50	LT	95	95	743	0.06	2.5		
0010	795+75		798+00	LT	270	270		0.17	7.3		
0010	797+75		798+75	RT	105	270	105	0.07	2.9		
0010	801+25		815+00	LT	2385	2385	103	1.5	64.5		
0010	803+25		805+00	RT	370	2363	370	0.23	10		
0010	808+75		811+25	RT	340	340	370	0.23	9.3		
0010	813+50		816+00	RT	300	300		0.19	8.3		
0010	817+50		819+50	LT	215	215		0.13	5.9		
0010	824+00		825+50	LT	170	170		0.13	4.6		
0010	826+50		827+25	RT	55	170	55	0.03	1.6	***************************************	
0010	829+50	$\vdash$	830+50	LT	75	75	33	0.05	2	***************************************	
0010	836+50	$\vdash$	838+08	RT	135	40	95	0.03	3.6	*	
0010	838+50	$\vdash$	840+20		180	90	90	0.09	4.9	***************************************	
0010	846+50		847+50	LT RT	130	90	130	0.08	3.5	***************************************	
0010	847+00	$\vdash$	848+00	LT	140		140	0.08	3.8		
0010	848+25	$\vdash$	852+75	RT	655		655	0.09	17.7	*	
0010	848+25		849+00	LT	105	105	033	0.06	2.7		
0010	850+25	$\vdash$	856+00	LT LT	840	840		0.52	22.6	***************************************	
0010	853+75		855+25	RT	120	120		0.08	3.3	•	
0010	858+25		860+50	LT	510	510		0.32	13.8		
0010	862+00		869+00	LT	1055	1055		0.66	28.5		
0010	862+25		868+50	RT	1320	1033	1320	0.82	35.7		
0010	876+00		881+25	RT	1165		1165	0.73	31.5	*	
0010	876+75		877+50	LT	55	55	1103	0.03	1.6		
0010	878+75		891+25	LT	1710	1710		1.08	46.1		
0010	885+50		902+50	RT	3585	1710	3585	2.25	96.8		
0010	892+75	$\vdash$	897+00	LT	770	680	90	0.48	20.7		
0010	899+50		903+75	LT	725	725	90	0.45	19.5		
0010	959+00		960+70	RT	140	140		0.43	3.7		
0010	960+00		961+60	LT	70	70		0.09	1.9		
0010	964+30		965+25	RT	55	55		0.04	1.4		
0010	964+30	$\vdash$	968+00	LT	435	435		0.03	11.8		
0010	1085+20	$\vdash$	1087+50	RT	415	433	415	0.27	11.2		
0010	1107+00		1108+50	LT	160	160	413	0.26	4.4		
0010		JTEP!	SECTIONS	LI	440	440		0.12	11.9	*	
0010			D AT 10%		4400	2550	1850	2.71	120	6	
OOTO	ONDT21KT	DUIE	υ ΑΙ IU%		4400	2330	T000	Z./1	TZU	Ö	
			SUBTOTALS:	:	27115	15185	11930	16.95	733.6	6	
			TOTALS:		48430	28080	20350	30	1210	62	

	EROSION CONTROL SUMMARY											
					628.1504	628.1520	628.7504	628.7555	628.7570			
					_	SILT	TEMPORARY	CULVERT				
					SILT	FENCE	DITCH	PIPE	ROCK			
					FENCE	MAINTENANCE	CHECKS	CHECKS	BAGS			
CATEGORY	STATION	TO		LOCATION	LF	LF	LF	EA	EA			
0010	358+75		361+25	RT	250	250		1				
0010	368+75	-	372+50	LT	350	350						
0010	375+00		379+50	LT	450	450						
0010	379+75		382+25	RT	250	250						
0010	384+75	_	385+75	LT 	100	100		2				
0010	398+50		404+00	RT	300	300		2				
0010	400+50		404+00	LT 	250	250			20			
0010	406+75		410+00	RT . —	400	400	······································	-	20			
0010	409+25	_	410+25	LT	125	125		5	×			
0010	413+25		415+50	RT	125	125	***		<b>.</b>			
0010	420+50		425+50	LT . =	525	525	1 Γ					
0010	430+00		431+75	LT 	175	175	15		10			
0010 0010	436+00	-	439+75	LT	175	175	50		10			
0010	443+50		448+00	LT			50 50		***************************************			
0010	442+50		446+75	RT			75	1				
0010	449+25	-	456+25	LT . =			75 15	1	,			
	459+25		460+50	LT	200	200	7.2					
0010 0010	461+75	_	463+75	LT	200	200	15					
0010	465+25 470+75		467+50 475+75	LT RT			10					
0010	470+73	-	479+50	LT	225	225	10					
0010	477+23	-	479+30 479+25	RT	175	175						
0010	482+00	_	489+50	LT	200	200	30	1				
0010	485+75		490+75	RT	200	200	30					
0010	492+75		499+00	RT	350	350	15					
0010	502+50		507+00	LT	330	330	Τ.)	3	<b>.</b>			
0010	545+25		546+50	LT	125	125		3	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~			
0010	549+50	_	551+75	LT	75	75			10			
0010	552+50	_	553+50	LT	, ,	73	15		10			
0010	556+50	_	560+50	LT			20					
0010	563+10	_	593+00	LT & RT	805	805	20					
0010	649+50	_	652+00	LT	250	250						
0010	667+75	_	668+00	LT			10		,			
0010	677+25	_	684+00	LT	350	350		4	20			
0010	677+25	_	681+60	RT	450	450			20			
0010	685+70	_	688+50	RT	250	250			20			
0010	688+60	-	696+50	LT			30					
0010	696+25	-	699+00	RT	100	100	10	2				
0010	698+00	- 1	699+50	LT	75	75	10					
0010	704+50	-	710+25	RT			15		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			
							<b>L</b>		X.			
		9	SUBTOTALS	:	6930	6930	415	19	100			

	EROSION CONTROL SUMMARY CONT.										
					628.1504	628.1520 SILT	628.7504 TEMPORARY	628.7555 CULVERT	628.7570		
					SILT	FENCE	DITCH	PIPE	ROCK		
					FENCE	MAINTENANCE	CHECKS	CHECKS	BAGS		
CATEGORY	STATION	то	STATION	LOCATION	LF	LF	LF	EA	EA		
0010	711+00	-	719+00	RT			30				
0010	720+75	_	721+75	RT	100	100					
0010	731+00	_	733+75	RT	275	275					
0010	731+50	-	733+75	LT			15				
0010	741+50	_	744+00	RT	150	150	10				
0010	748+25	_	749+75	RT	200	200	***************************************		***************************************		
0010	795+75	-	798+00	LT			15				
0010	801+25	-	815+00	LT	50	50	30		30		
0010	803+25	-	805+00	RT	150	150					
0010	808+75	-	811+25	RT			10				
0010	813+50	-	816+00	RT			10				
0010	817+50	-	819+50	LT			15				
0010	836+50	_	838+00	RT	175	175					
0010	838+50	-	840+20	LT	180	180					
0010	846+50	-	847+50	RT	100	100			20		
0010	847+00	-	848+00	LT	110	110			20		
0010	548+25	-	852+75	RT			,	3			
0010	848+25	_	849+00	LT				3			
0010	850+25	_	856+00	LT			30				
0010	858+25	_	860+50	LT	250	250					
0010	862+00	_	869+00	LT			,	3			
0010	862+25	-	868+50	RT	450	450	10		10		
0010	876+00	_	881+25	RT	425	425					
0010	878+75	_	891+25	LT			50				
0010	885+50	_	902+50	RT	775	775					
0010	892+75	_	897+00	LT				8			
0010	899+50	_	903+75	LT				5			
0010	966+20	_	968+00	LT	175	175					
0010	UNDISTRI	BUTE	D AT 10%		1055	1055	65	4	20		
			SUBTOTALS	<b>5:</b>	4620	4620	290	26	100		
			TOTALS:		11550	11550	705	45	200		

	EROSION CONTROL	MOBILIZATIONS	
		628.1905	628.1910 MOBILIZATIONS
		MOBILIZATIONS	EMERGENCY
		EROSION	EROSION
		CONTROL	CONTROL
CATEGORY	LOCATION	EA	EA
0010	PROJECTWIDE	4	3
	TOTAL:	4	3

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PECTION	R.	PEMOVAL	ΛE	TVDE	TT	STENS	AND	SHIDDOPTS	

				637.2210	637.2230	634.0612		634.0616			
				SIGNS	SIGNS	POSTS	POSTS	POSTS	REMOVING		
SIGN		SIGN		TYPE II	TYPE II REFLECTIVE F	WOOD 4x6x12	WOOD 4x6x14	WOOD 4x6x16	SIGNS TYPE II	SMALL SIGN SUPPORTS	
NO.	LOCATION	CODE	WXH	S.F.	S.F.	EACH	EACH	EACH	EACH	EACH	REMARKS
1	COUNTY LINE RD	R1-1	30" X 30"	5.18			1		1	1	REPARTS
2	USH 8 E. OF COUNTY LINE RD		54" X 15"	5.63			2		2	2	FOREST CO, SEE SIGN DETAIL
3	п	D1-60	72" X 15"	7.50			2		2	2	MARINETTE CO, SEE SIGN DETAIL
4	"	I55-56							1	1	
5	II	D1-1	102" X 15"	10.63			2		2	2	COUNTY LINE RD, SEE SIGN DETAIL
6	11	W1-2L	30" X 30"		6.25			1			
7	п	W1-2L	30" X 30"		6.25			1	1	1	
8	п	D1-1	96" X 15"	10.00			2		2	2	SANDY LOOP RD, SEE SIGN DETAIL
9	II .	D7-68;MOD							1	1	SEE SIGN DETAIL
10	SANDY LOOP RD	R1-1	30" X 30"	5.18			1		1	1	
11	USH 8 E. OF SANDY LOOP RD	D1-1	96" X 15"	10.00			2		2	2	SANDY LOOP RD, SEE SIGN DETAIL
12	"	D1-1	102" X 15"	10.63			2		2	2	CAMP B LOOP RD, SEE SIGN DETAIL
13	"	W1-2R	30" X 30"		6.25			1			
13A		W1-7	48" X 24"		8.00		1		1	1	
14	CAMP B LOOP RD	R1-1	30" X 30"	5.18			1		1	1	
15	USH 8 E. OF CAMP B LOOP RD	w14-3	48" X 36"		6.00			1	1	1	
16	"	D1-1	102" X 15"	10.63			2		2	2	CAMP B LOOP RD, SEE SIGN DETAIL
17	II .	W14-3	48" X 36"		6.00			1	1	1	
18	"	D1-1	72" X 15"	7.50			2		2	2	FRANKS RD, SEE SIGN DETAIL
19	II .	s3-1							1	1	
20	"	J1-1	24" X 39"	6.50				1	1	1	ЈСТ СТН Н
21	II .	R2-1	24" X 30"	5.00			1				SPEED LIMIT 55
22	"	D7-68L;MOD	54" X 36"	13.50				2	1	2	SEE SIGN DETAIL
23	"	J4-1	24" X 36"	6.00				1	1	1	WEST USH 8
24	"	D1-1	54" X 24"	9.00			2		1	2	FRANKS RD, SEE SIGN DETAIL
25	СТН Н	J13-1	24" X 45"	7.50				1	1	1	USH 8, LEFT AND RIGHT
26	"	R1-1	36" X 36"	5.18				1	1	1	
27	"	R1-1	30" X 30"	5.18			1		1	1	
28	USH 8 E. OF CTH H	J13-1	24" X 45"	7.50				1	1	1	CTH H, LEFT
29	"	w1-7	60" X 30"		12.50			2	1	2	
30	"	J13-1	24" X 45"	7.50				1	1	1	CTH H, RIGHT
31	II	J4-1	24" X 36"	6.00				1	1	1	EAST USH 8
32	"	W14-3	48" X 36"		6.00						MOUNT TO BACK OF SIGN 31, PART OF SIGN 31 REMOVA
33	"	W14-3	48" X 36"		6.00			1	1	1	
34	"	R2-1	24" X 30"	5.00			1				SPEED LIMIT 55
35	"		54" X 36"	13.50				2	11	2	SEE SIGN DETAIL
36	"	J1-1	24" X 39"	6.50				1	1	1	ЈСТ СТН Н
37	"	W1-2R	30" X 30"		6.25			1	1	1	
38	"	D1-1	84" X 15"	8.75			2		1	2	PARTRIDGE RD, SEE SIGN DETAIL
39	"	I55-56	40!! > 24!!						1	1	
40			48" X 24"		8.00		2		11	2	
41	OAKRIDGE LN	R1-1	30" X 30"	5.18			1		1	1	
42	PARTRIDGE RD	R1-1	30" X 30"	5.18	9.00		1		1	1	
43	USH 8, E. OF PARTRIDGE RD	W1-6	48" X 24"		8.00		1		1	2	DARTETOGE DE CEE CEC DETE
44	"	D1-1	84" X 15"	8.75			2		2	2	PARTRIDGE RD, SEE SIGN DETAIL
45		D7-68;MOD	30" X 30"		6.25			1	1	1	SEE SIGN DETAIL
46 47	п	1 1		0.20	6.25			1	1	1	THEN LAKE DO SEE STON DETAIL
48	ш	D1-1	90" X 15" 48" X 36"	9.38	6.00		2	1	2 1	2	TWIN LAKE RD, SEE SIGN DETAIL
48		W14-3	30" X 30"		6.00		1		1	1	
50	TWIN LAKE RD		30" X 30"	5.18 5.18			1		1	1	
51	USH 8, E. OF TWIN LAKE RD	W14-3	48" X 36"	5.16	6.00			1	1	1	
52	USH 6, E. OF IWIN LAKE RD	D1-1	90" X 15"	9.38			2		2	2	TWIN LAKE DO SEE STON DETAIL
53	п	1 1	48" X 36"	9.36	1			1	1	1	TWIN LAKE RD, SEE SIGN DETAIL
54	ш	W14-3	90" X 30"	18.75	6.00		2		2	2	SNOWSHOE DE TAIDLISTETAL DE SEE STON DETATI
55	п	D1-2		18.75	1						SNOWSHOE DR, INDUSTRIAL DR, SEE SIGN DETAIL
		W14-3	48" X 36"		6.00		1	1	1	1	
56	INDUSTRIAL DR	R1-1	30" X 30"	5.18			1		1	1	
57	USH 8, E. OF INDUSTRIAL DR	D5-63	60" X 36"	15.00	 8 00		1	2	1	2	
E7A		W1-7	48" X 24"	7.46	8.00		1		1	1	
57A	CNOWCHOE DD	D1 1	36" ~ 36"								
57A 58 59	SNOWSHOE DR	R1-1 R1-1	36" X 36" 30" X 30"	7.46 5.18			1		1	1	

FILE NAME : \_\_\_\_\_ PLOT DATE : \_\_\_\_ PLOT BY : \_\_\_\_ PLOT NAME : \_\_\_\_ PLOT SCALE : 1:1

ERECTION	& REMOVAL O	F TYPE II S	IGNS AND	SUPPORT	<u>s</u>		
637.2210	637.2230	634.0612	634.0614	634.0616	638.2602	638.3000	
SIGNS	SIGNS	POSTS	POSTS	POSTS	REMOVING	REMOVING	
TYPE II	TYPE II	WOOD	WOOD	WOOD	SIGNS	SMALL SIGN	
EFLECTIVE H	REFLECTIVE F	4x6x12	4x6x14	4x6x16	TYPE II	SUPPORTS	
S.F.	S.F.	EACH	EACH	EACH	EACH	EACH	REMARKS
					_	_	

SIGN				SIGNS TYPE II	SIGNS	POSTS	POSTS	POSTS	REMOVING	REMOVING	
		CTCN			TYPE II	WOOD	WOOD	WOOD		SMALL SIGN	
	LOCATION	SIGN	W W II		REFLECTIVE F	4x6x12	4x6x14	4x6x16	TYPE II	SUPPORTS	DEMARKS
NO.	LOCATION LIGHT & F. OF CHONGHOE DR	CODE	W X H 36" X 36"	S.F.	S.F. 9.00	EACH	EACH	EACH 1	EACH 1	EACH 1	REMARKS 45 MPH
61	USH 8, E. OF SNOWSHOE DR	W3-5	54" X 24"	9.00	9.00		2		2	2	
62	II .	D1-2 R2-1	24" X 30"	5.00			1		1	1	SNOWSHOE DR, INDUSTRIAL DR, SEE SIGN DETAIL  45 MPH
63	п	R2-1	24" X 30"	5.00			1		1	1	55 MPH
63A	п	W12-2	36" X 36"		9.00			1			JJ MFN
63B	п	W16-9P	24" X 12"		2.00						MOUNT BELOW SIGN 63A
64	11	D2-2	90" X 24"	15.00				2	1	2	SEE SIGN DETAIL
65	11	12-3	60" X 24"	10.00			1		1	2	SEE SIGN DETAIL
66	п	R2-1	24" X 30"	5.00			1		1	1	45 MPH
67	п	D1-1	96" X 15"	10.00			2				CLARK LAKE RD, SEE SIGN DETAIL
68	п	W1-4R		0.00							derinic entre hay all along being
69	п	W1-4R	30" X 30"		6.25			1			
70	II .	w14-3	48" X 36"		6.00				1	1	
71	II .	w14-3	48" X 36"		6.00			1	1	1	
72	II .	w3-5	36" x 36"		9.00			1	1	1	30 MPH
73	п	J4-1	24" x 36"	6.00				1	1	1	WEST USH 8
74	CLARK LAKE RD	R1-1	30" x 30"	5.18			1		1	1	
75	USH 8, E. OF CLARK LAKE RD	w12-2		0.00					1	1	
76	п	D5-64L	60" x 36"	15.00				2			
77	п	D5-64R	60" X 36"	15.00				2	1	2	
78	п	R2-1	24" X 30"	5.00			1		1	1	45 MPH
79	п	R2-1	24" X 30"	5.00			1		1	1	30 MPH
80	н	D1-1	96" X 15"	10.00			2		1	2	CLARK LAKE RD, SEE SIGN DETAIL
81	II	J2-1	24" X 57"	9.50							EAST USH 8, AHEAD TILT LEFT
82	11	w12-2	36" x 36"		9.00			1	1	1	
83	п	D1-56SR	66" X 24"	11.00			2		1	2	SEE SIGN DETAIL
84	II .	w12-2	36" x 36"		9.00			1	1	1	
85	п	R2-1	24" X 30"	5.00			1		1	1	30 MPH
86	A AVE	R1-1	30" X 30"	5.18			1		1	1	
87	USH 8, E. OF A AVE	R2-1	24" X 30"	5.00			1		1	1	30 MPH
88	II .	w12-2							1	1	
89	MILL ST	W1-6	48" X 24"		8.00		2		1	2	
90	"	R1-1	30" X 30"	5.18			1		1	1	
91	MAPLE AVE	R1-1	30" X 30"	5.18			1		1	1	
92	USH 8, E. OF MILL ST	J2-1	24" X 57"	9.50				1	1	1	WEST USH 8, AHEAD TILT RIGHT
93	"	R2-1	24" X 30"	5.00			1		1	1	30 MPH
94			66" X 24"	11.00			2		1	2	SEE SIGN DETAIL
95	BIRCH AVE	R1-1	30" X 30"	5.18			1		1	1	
96	USH 8, E. OF BIRCH AVE	R2-1	24" x 30"	5.00			1		1	1	
97	"	S3-1							1	1	
97A		W12-2	36" X 36"		9.00			1			MOUNT DELON OTO: 07:
97в			24" X 12"		2.00						MOUNT BELOW SIGN 97A
98	BEECH AVE		30" X 30"	5.18			1		1	1	
99	USH 8, E. OF BEECH AVE		60" X 36"	15.00			1	2	1	2	20
L00	"	R2-1	24" X 30" 24" X 30"	5.00			1		1	1	30 MPH
101		R2-1		5.00	0.00		1		1	1	50 мрн
L02 L03	п		36" X 36"		9.00		1	1	1	1	CEE CTON DETAIL
			60" X 24"	10.00			1	 1	1	2	SEE SIGN DETAIL
05		W3-5	36" X 36"		9.00			1			30 MPH
105		W3-5	30" X 30"	 5 10			1		1	1	
.06 .07	10 ACRE DR	R1-1 W10-1	36" X 36"	5.18	7.07		1	1	1	1	
.07	USH 8, E. OF 10 ACRE DR	J4-1	24" X 36"	6.00	7.07		1		1	1	EAST USH 8
09	USIT U, E. UF TU ACKE DK		36" X 36"	6.00	9.00			1	1	1	EAST USH 0
10	п		66" X 24"	11.00	9.00			2	1	2	SEE SIGN DETAIL
11	n .	W14-3	48" X 36"		6.00			1	1	1	SEE STOW DELATE
12	п		54" X 24"	9.00	6.00		2		1	2	TOWER RD, SEE SIGN DETAIL
.12	11			9.00				1	1	1	IOWEK KD, SEE SIGN DETAIL
	n n	W14-3	48" X 36"		6.00		1		1	1	
.14		S3-1		 5 10			1			1	
.15	TOWERD RD	R1-1	30" X 30" 54" X 24"	5.18			1		1		TOWER BD. CEE CTCM DETAIL
.16	USH 8, E. OF TOWER RD			9.00			2			1	TOWER RD, SEE SIGN DETAIL
17			30" X 30"		6.25			1	1	1	TOWERD DE DEMOVAL DART OF CTCV 117
118	II .	W16-8P									TOWERD RD, REMOVAL PART OF SIGN 117

PAGE SUBTOTAL 287.44 138.82 0 38 27 52 63

HWY: USH 8 SHEET: PROJECT NO: 1590-16-71 COUNTY: MARINETTE MISCELLANEOUS QUANTITIES

PLOT DATE : \_ PLOT BY : \_\_\_\_\_ PLOT NAME : \_\_\_\_\_ PLOT SCALE : 1:1

# ERECTION & REMOVAL OF TYPE II SIGNS AND SUPPORTS

		T		637.2210	637.2230	634.0612	634.0614		638.2602	638.3000	
				SIGNS	SIGNS	POSTS	POSTS	POSTS	REMOVING		
				TYPE II	TYPE II	WOOD	WOOD	WOOD	SIGNS	SMALL SIGN	
SIGN	LOCATION	SIGN	W V II		REFLECTIVE F		4x6x14	4x6x16	TYPE II	SUPPORTS	DEMARKS
NO. 120	LOCATION USH 8, E. OF TOWER RD	D7-68	W X H	S.F.	S.F.	EACH	EACH	EACH	EACH 1	EACH 2	REMARKS SEE SIGN DETAIL
121	USIT 0, E. OF TOWER RD	W14-3	48" x 36"		6.00			1	1	1	SEE SIGN DETAIL
122	п	W14-3	48" X 36"		6.00			1	1	1	
123	п	W14-3	48" X 36"		6.00			1	1	1	
124	п	D1-1	72" X 15"	7.50			2		1	2	SHRINE RD, SEE SIGN DETAIL
125	II.	s3-1							1	1	
126	п	W14-3	48" X 36"		6.00			1			PART OF SIGN 125 REMOVAL
127	SHRINE RD	R1-1	30" X 30"	5.18			1		1	1	
128	USH 8, E. OF SHRINE RD	W1-7	48" X 24"		8.00		1		1	1	
129	"	D1-1	72" X 15"	7.50			2		1	2	SHRINE RD, SEE SIGN DETAIL
130	"	W2-2	30" X 30"		6.25			1	1	1	
131	"	J1-2	48" X 39"	13.00				1	1	1	JCT CHT I, JCT RUSTIC RD
132 133	11	D1-1 D7-68R	84" X 15" 60" X 36"	8.75 15.00			2	2	1	2	PARKWAY RD, SEE SIGN DETAIL
134	11	D7-00K	78" X 15"	8.13			2		1	2	SEE SIGN DETAIL  SEE SIGN DETAIL
135	п	J4-1	24" X 36"	6.00			1		1	1	WEST USH 8
135A	п	R2-1	24" X 30"	5.00			1				55 MPH
136	п	J13-2	48" X 45"	15.00				1	1	1	CTH I, RUSTIC RD
137	CTH I	R1-1	30" x 30"	5.18			1		1	1	,
138	п	R1-1	36" x 36"	7.46			1		1	1	
139	п	J13-1	24" X 45"	7.50				1	1	1	USH 8 LEFT AND RIGHT
140	USH 8, E. OF CTH I	W1-7	48" X 24"		8.00		1		1	1	
141	п	J13-2	48" X 45"	15.00				1	1	1	CTH I, RUSTIC RD
142	11	J4-1	24" X 36"	6.00			1		1	1	EAST USH 8
143	п	D7-68L	60" X 36"	15.00				2	1	2	SEE SIGN DETAIL
144	"	155-56	36" X 36"	9.00				1	1	1	GOODMAN-ARMSTRONG EDUCATION ASSOCIATION, SEE PLAN SHEET
144A	"	R2-1	24" X 30"	5.00			1				55 MPH
145		D1-1	78" X 15"	8.13			2		1	2	SEE SIGN DETAIL
146 147	п	D1-1 J1-2	84" X 15" 48" X 39"	8.75 13.00			2	1	1	1	PARKWAY RD, SEE SIGN DETAIL
147	п	W14-3	48" X 36"		6.00			1	1	1	JCT CHT I, JCT RUSTIC RD
149	п	D7-68							1	2	SEE SIGN DETAIL
150	п	D1-1	90" x 15"	9.38			2		1	2	FOREST RD 613, SEE SIGN DETAIL
151	п	W14-3	48" X 36"		6.00			1	1	1	. OKES. AS CES, SEE SEA. SETTLE
152	п	W1-2L	30" x 30"		6.25			1	1	1	
153	FOREST RD 613	R1-1	30" X 30"	6.25			1		1	1	
154	USH 8, E. OF FOREST RD 613	D1-1							1	2	
155	п	D1-1	96" X 15"	10.00			2				FOREST RD 607, SEE SIGN DETAIL
156	11	D1-1							1	2	
157	п	D1-1	90" X 15"	9.38			2				FOREST RD 613, SEE SIGN DETAIL
158	FOREST RD 607	R1-1	30" X 30"				1		1	1	
159	USH 8, E. OF FOREST RD 607	D1-1	96" X 15"	10.00			2		1	2	PIKE RIVER DR, SEE SIGN DETAIL
160	"	W1-6	48" X 24"		8.00		1		1	2	
161 162	п	D1-1 D1-1	96" X 15"	10.00			2				FOREST RD 607, SEE SIGN DETAIL
163	PINE RIVER DR	R1-1	30" X 30"	5.18			1		1	1	FORLST RD UUT, SEE SIGN DETAIL
164	USH 8, E. OF PINE RIVER DR	W1-6	48" X 24"		8.00		1		1	1	
165	11	D1-1	96" X 15"	10.00			2		1	2	PIKE RIVER DR, SEE SIGN DETAIL
166	п	D1-1	84" X 15"	8.75			2		1	2	JACKPINE DR, SEE SIGN DETAIL
167	п	W1-2R	30" X 30"		6.25			1	1	1	
168	п	J4-1	24" X 36"								
169	11	W14-3	48" X 36"		6.00			1	1	1	MOUNT TO BACK OF SIGN 168, PART OF SIGN 168 REMOVAL
170	п	155-56	36" X 36"	9.00				1	1	1	GOODMAN-ARMSTRONG EDUCATION ASSOCIATION, SEE PLAN SHEET
171	JACKPINE DR	R1-1	30" X 30"	5.18			1		1	1	
172	USH 8, E. OF JACKPINE DR	D1-1	84" X 15"	8.75			2		1	2	JACKPINE DR, SEE SIGN DETAIL
173	"	W14-3	48" X 36"		6.00			1	1	1	
174	"	W7-1	30" X 30"	2.00	6.25			1	1	1	
175 176	" "	R7-4L	18" X 24"	3.00			1		1	1	
1 1/6		R7-4D	18" X 24"	3.00			1		1	1	
	п	p7 /p	10" > 24"1	3 00	_	_	1 1		1 7	1 1	<b>1</b>
177	11	R7-4R	18" X 24"	3.00			1		1	1	
		R7-4R R7-4D R7-4D	18" X 24" 18" X 24" 18" X 24"	3.00 3.00 3.00			1 1 1		1 1 1	1 1 1	

HWY: USH 8 COUNTY: MARINETTE SHEET: MISCELLANEOUS QUANTITIES PROJECT NO: 1590-16-71 PLOT SCALE : 1:1 PLOT NAME : \_\_\_\_

48 23 55 73

313.11 105.00

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

PAGE SUBTOTAL

SHEET:

PROJECT NO: 1590-16-71

# ERECTION & REMOVAL OF TYPE II SIGNS AND SUPPORTS

				637.2210	637.2230	634.0612			638.2602		
				SIGNS	SIGNS	POSTS	POSTS		REMOVING		
CTCN		STON		TYPE II	TYPE II	WOOD	WOOD	WOOD		SMALL SIGN	
SIGN NO.	LOCATION	SIGN CODE	WXH	S.F.	REFLECTIVE F	4x6x12 EACH	4x6x14 EACH	4x6x16 EACH	TYPE II EACH	SUPPORTS EACH	REMARKS
180	USH 8, E. OF JACKPINE DR	R7-4D	18" X 24"	5.F.	5.F. 	EACH	EACH	EACH	1	1	REMARKS
181	II	R7-4D	18" X 24"						1	1	
182	n	R7-4D	18" X 24"						1	1	
183	п	R7-4D	18" X 24"	3.00			1		1	1	
184	п	R7-4D	18" X 24"	3.00			1		1	1	
185	п	R7-4R	18" X 24"	3.00			1		1	1	
186	II	R7-4L	18" X 24"	3.00			1		1	1	
187	п	W1-2R	30" X 30"		6.25			1	1	1	
188	II .	w1-6	48" X 24"		8.00		1		1	1	
189	II .	W1-6	48" X 24"		8.00		1		1	1	
190	II .	s3-1							1	1	
191	п	W1-2L	30" X 30"		6.25			1	1	1	
192	"	W1-2L	30" X 30"		6.25			1	1	1	
193		W1-6	48" X 24"		8.00		1		1	1	
193A	VACANT										
193B	VACANT	+							1	1	
193C 193D	USH 8, E. OF JACKPINE DR	W1-8 W1-8							1	1	
193b 193E	 II	W1-8 W1-8							1	1	
193E 193F	п	W1-8 W1-8							1	1	
193F 193G	п	W1-8 W1-8							1	1	
193G 193H	п	W1-8							1	1	
194	п	D1-1	96" X 15"	10.00			2		1	2	PIKE RIVER DR, SEE SIGN DETAIL
195	п	W1-6	48" X 24"		8.00		1				TIRE RIVER DR, SEE SIGN DETAIL
196	PIKE RIVER DR	R1-1	30" X 30"	5.18			1		1	1	
197	USH 8, E. OF PIKE RIVER DR	W14-3	48" X 36"		6.00			1	1	1	
198	11	W1-2R	30" x 30"		6.25			1	1	1	
199	п	D1-1	96" x 15"	10.00			2		1	2	PIKE RIVER DR, SEE SIGN DETAIL
200	п	w14-3	48" x 36"		6.00			1	1	1	,
201	п	w14-3	48" X 36"		6.00			1	1	1	
202	п	w14-3	48" X 36"		6.00			1	1	1	
203	п	W5-52L	12" X 36"		3.00		1	-	1	1	
204	II	13-1	54" X 15"	5.63			1		1	1	KC CREEK
205	п	W5-52R	12" X 36"		3.00		1		1	1	
206	II .	W5-52R	12" X 36"		3.00		1		1	1	
207	II .	13-1	54" X 15"	5.63			1		1	1	KC CREEK
208	ш	W5-52L	12" X 36"		3.00		1		1	1	
209	"	W14-3	48" X 36"		6.00			1	1	1	
210		J1-1	24" X 39"	6.50				1	1	1	JCT CTH U
211	"	W10-3	36" X 36"		9.00			1	1	1	
212	"	J4-1	24" X 36"	6.00				1	1	1	WEST USH 8
212A	"	R2-1	24" X 30"	5.00			1	1			55 MPH
213 214		J13-1	24" X 45" 36" X 36"	7.50 7.46				1	1	1	CTH U LEFT
214	CTH U USH 8, E. OF CTH U	R1-1 W1-7	48" X 24"	7.46	8.00		1		1	1	
216	USH 0, E. UF CIH U	J13-1	24" X 45"	7.50	8.00			1	1	1	CTH U RIGHT
217	п	J4-1	24" X 36"	6.00				1			EAST USH 8
217A	п	R2-1	24" X 30"	5.00			1		1	1	55 MPH, REMOVE J4-1
2178	II.	W10-3	36" X 36"		9.00			1	1	1	33 MIN, NEMOVE 34-I
219	п	J1-1	24" X 39"	6.50				1	1	1	JCT CTH U
220	п	W14-3	48" X 36"		6.00			1	1	1	35. 3111 0
221	п	D1-2	78" X 30"	16.25			2		1	2	GASSETT RD, AIRPORT RD, SEE SIGN DETAIL
222	п	W3-5	36" X 36"		9.00			1	1	1	40 MPH
223	п	D2-2	90" X 24"	15.00				2	1	2	SEE SIGN DETAIL
224	GASSETT RD	R1-1	30" X 30"	5.18			1		1	1	
225	AIRPORT RD	R1-1	30" X 30"	5.18			1		1	1	
226	USH 8, E. OF AIRPORT RD	12-3	54" X 24"	9.00			2		1	2	DUNBAR UNINCORPORATED, SEE SIGN DETAIL
227	TI TI	J4-1	24" X 36"	6.00				1	1	1	WEST USH 8
228	11	R2-1	24" X 30"	5.00			1		1	1	40 MPH
229	п	R2-1	24" X 30"	5.00			1		1	1	55 MPH
230	п	D1-2	78" X 30"	16.25			2		1	2	GASSETT RD, AIRPORT RD, SEE SIGN DETAIL
231	3RD ST	R1-1	30" X 30"	5.18			1		1	1	
	PAGE SUBTOTAL			193.93	140.00	0	33	23	57	63	

MISCELLANEOUS QUANTITIES

FILE NAME : \_\_\_\_\_ PLOT BY : \_\_\_\_ PLOT NAME : \_\_\_\_ PLOT SCALE : 1:1

COUNTY: MARINETTE

HWY: USH 8

# ERECTION & REMOVAL OF TYPE II SIGNS AND SUPPORTS

				637.2210	637.2230	634.0612	634.0614	634.0616	638.2602	638.3000	
				SIGNS	SIGNS	POSTS	POSTS	POSTS	REMOVING	REMOVING	
				TYPE II	TYPE II	WOOD	WOOD	WOOD	SIGNS	SMALL SIGN	
SIGN		SIGN		REFLECTIVE H	REFLECTIVE F	4x6x12	4x6x14	4x6x16	TYPE II	SUPPORTS	
NO.	LOCATION	CODE	WХН	S.F.	S.F.	EACH	EACH	EACH	EACH	EACH	REMARKS
232	3RD ST	R1-1	30" x 30"	5.18			1		1	1	
233	USH 8, E. OF 3RD ST	R2-1	24" x 30"	5.00			1		1	1	40 MPH
234	11	R2-1	24" x 30"	5.00			1		1	1	40 MPH
235	2ND ST	R1-1	30" x 30"	5.18			1		1	1	
236	USH 8, E. OF 2ND ST	R2-1	24" x 30"	5.00			1		1	1	40 MPH
237	1ST ST	R1-1	30" x 30"	5.18			1		1	1	
238	USH 8, E. OF 1ST ST	J4-1							1	1	
239	11	R2-1	24" x 30"	5.00			1		1	1	40 MPH
240	п	R2-1	24" x 30"	5.00			1		1	1	55 MPH
241	п	12-3	54" x 24"	9.00			2		1	2	DUNBAR UNINCORPORATED, SEE SIGN DETAIL
242	п	J1-1	24" x 39"	6.50				1	1	1	JCT CTH 0
243	п	w14-3	48" x 36"		6.00						MOUNT TO BACK OF SIGN 242, PART OF SIGN 242 REMOVAL
244	11	w14-3	48" x 36"		6.00			1	1	1	·
245	п	D1-1	90" x 15"	9.38			2		1	2	OLD CTH A RD, SEE SIGN DETAIL
246	11	w3-5	36" x 36"		9.00			1	1	1	40 MPH
246A	11	R2-1	24" x 30"	5.00			1				55 MPH
247	11	w54-51							1	1	
248	11	J13-1	24" x 45"	7.50				1	1	1	CTH O LEFT
248A	11	J4-1	24" x 36"	6.00				1			WEST USH 8
249	СТН О	R1-1	36" x 36"	7.46				1	1	1	
250	OLD CTY A RD	R1-1	36" x 36"	7.46				1	1	1	
251	СТН О	R1-1	36" x 36"	7.46				1	1	1	
252	USH 8, E. OF CTH O	J13-1	24" x 45"	7.50				1	1	1	CTH O RIGHT
253	11	J4-1	24" x 36"	6.00				1			EAST USH 8
254	11	R2-1	24" x 30"	5.00			1				55 MPH
255	11	W54-51							1	1	
	PAGE SUBTOTAL			124.80	21.00	0	14	10	21	23	
	PROJECT TOTAL			1219.72	528.57	0.00	179	111	252	297	

PROJECT NO: 1590-16-71 HWY: USH 8 COUNTY: MARINETTE MISCELLANEOUS QUANTITIES SHEET: **E** 

FILE NAME : \_\_\_\_\_ PLOT DATE : \_\_\_\_ PLOT BY : \_\_\_\_ PLOT NAME : \_\_\_\_ PLOT SCALE : 1:1

# TRAFFIC CONTROL DRUMS

			PROJECT	643.0300	
CATEGORY	LOCATION	DRUMS	DURATION	DAYS	REMARKS
0010	GOODMAN	65	50	3250	SHOULDER CLOSURE
0010	GOODMAN	20	50	1000	SIDEWALK CLOSURE
	TOTAL			4250	

# TRAFFIC CONTROL BARRICADES TYPE II

			PROJECT	643.0410	
CATEGORY	LOCATION	<b>BARRICADES</b>	DURATION	DAYS	REMARKS
0010	GOODMAN SIDEWALKS	7	25	175	PEDESTRIAN ROUTING GOODMAN
	TOTAL			175	

# TRAFFIC CONTROL BARRICADES TYPE III

			PROJECT	643.0420	
CATEGORY	LOCATION	<b>BARRICADES</b>	DURATION	DAYS	REMARKS
0010	GOODMAN TOWN ROADS	3	25	75	SIDEWALK CLOSURE
	TOTAL			75	

# TRAFFIC CONTROL WARNING LIGHTS TYPE A

			PROJECT	643.0705	
CATEGORY	LOCATION	TYPE A LIGHTS	DURATION	DAYS	REMARKS
0010	GOODMAN	60	50	3000	SHOULDER CLOSURE
0010	GOODMAN TOWN ROADS	12	25	300	ON BARRICADES
•	TOTAL			3300	

# TRAFFIC CONTROL WARNING LIGHTS TYPE C

			PROJECT	643.0715	
CATEGORY	LOCATION	TYPE A LIGHTS	DURATION	DAYS	REMARKS
0010	GOODMAN	5	50	250	SHOULDER CLOSURE
	TOTAL			250	

	TRAFFIC CONTROL SIGNS PCMS										
						643.1050					
CATEGORY		LO	CATION		SIGNS PCMS	DAY	REMARKS				
0010	USH 8	, WEST	PROJECT	LIMITS	1	7	NOTIFICATION FOR BEGINNING	OF PROJEC			
0010	USH 8	, EAST	PROJECT	LIMITS	1	7	NOTIFICATION FOR BEGINNING	OF PROJEC			
		Ŧ	OTAL			14					

# TRAFFIC CONTROL SIGNS

			PROJECT	643.0900	
CATEGORY	LOCATION	SIGNS	DURATION	DAYS	REMARKS
0010	EAST PROJECT END	5	140	700	ADVANCED WARNING SIGNS
0010	WEST PROJECT END	5	140	700	ADVANCED WARNING SIGNS
0010	GOODMAN	2	50	100	SHLD CLOSURE
0010	COUNTY LINE ROAD	1	140	140	ADVANCED WARNING SIGNS
0010	SANDY LOOP ROAD	1	140	140	ADVANCED WARNING SIGNS
0010	CAMP B LOOP ROAD	1	140	140	ADVANCED WARNING SIGNS
0010	FRANKS ROAD	1	140	140	ADVANCED WARNING SIGNS
0010	СТН Н	1	140	140	ADVANCED WARNING SIGNS
0010	ORCHARD ROAD	1	140	140	ADVANCED WARNING SIGNS
0010	PARTRIDGE ROAD	1	140	140	ADVANCED WARNING SIGNS
0010	TWIN LAKES ROAD	1	140	140	ADVANCED WARNING SIGNS
0010	INDUSTRIAL DRIVE	1	140	140	ADVANCED WARNING SIGNS
0010	SNOWSHOE DRIVE	1	140	140	ADVANCED WARNING SIGNS
0010	CLARK LAKE ROAD	1	140	140	ADVANCED WARNING SIGNS
0010	A AVE	1	140	140	ADVANCED WARNING SIGNS
0010	MILL STREET	1	140	140	ADVANCED WARNING SIGNS
0010	MAPLE AVE	1	140	140	ADVANCED WARNING SIGNS
0010	BIRCH AVE	1	140	140	ADVANCED WARNING SIGNS
0010	BEECH AVE	1	140	140	ADVANCED WARNING SIGNS
0010	TEN ACRE ROAD	1	140	140	ADVANCED WARNING SIGNS
0010	TOWER ROAD	1	140	140	ADVANCED WARNING SIGNS
0010	SHRINE ROAD	1	140	140	ADVANCED WARNING SIGNS
0010	PARKWAY ROAD (CTH I)	1	140	140	ADVANCED WARNING SIGNS
0010	FOREST ROAD 613	1	140	140	ADVANCED WARNING SIGNS
0010	FOREST ROAD 607	1	140	140	ADVANCED WARNING SIGNS
0010	PINE RIVER ROAD	1	140	140	ADVANCED WARNING SIGNS
0010	JACK PINE ROAD	1	140	140	ADVANCED WARNING SIGNS
0010	PIKE RIVER DRIVE	1	140	140	ADVANCED WARNING SIGNS
0010	стн и	1	140	140	ADVANCED WARNING SIGNS
0010	GASSETT ROAD	1	140	140	ADVANCED WARNING SIGNS
0010	AIRPORT ROAD	1	140	140	ADVANCED WARNING SIGNS
0010	3RD STREET (NORTH)	_ 1	140	140	ADVANCED WARNING SIGNS
0010	3RD STREET (SOUTH)	_ 1	140	140	ADVANCED WARNING SIGNS
0010	2ND STREET	_ 1	140	140	ADVANCED WARNING SIGNS
0010	1ST STREET	_ 1	140	140	ADVANCED WARNING SIGNS
0010	СТНО	1	140	140	ADVANCED WARNING SIGNS
0010	OLD COUNTY A ROAD	1	140	140	ADVANCED WARNING SIGNS
0010	GOODMAN TOWN ROADS	12	25	300	PEDESTRIAN ROUTING AND SIDEWALK CLOSUR
	TOTAL			6560	

TOTAL 6560

# PAVEMENT MARKING EPOXY 4-INCH

					646.0106	
					YELLOW	D=2.44 D1/0
CATEGORY	STATION	то	STATION	LOCATION	LF	REMARKS
0010	0352+90	-	0387+00	USH 8	6820	Double centerline
0010	0387+00	-	0398+00	USH 8	1375	EB skips / WB solid centerline
0010	0398+00	-	0414+75	USH 8	419	Centerline skips
0010	0414+75	-	0425+00	USH 8	1281	WB skips / EB solid centerline
0010	0425+00	-	0426+00	USH 8	25	Centerline skips
0010	0426+00	-	0435+75	USH 8	1219	EB skips / WB solid centerline
0010	0435+75	-	0436+75	USH 8	25	Centerline skips
0010	0436+75	-	0446+75	USH 8	1250	WB skips / EB solid centerline
0010	0446+75	-	0486+80	USH 8	8010	Double centerline
0010	0486+80	-	0497+75	USH 8	1369	EB skips / WB solid centerline
0010	0497+75	-	0505+50	USH 8	194	Centerline skips
0010	0505+50	-	0514+40	USH 8	1113	WB skips / EB solid centerline
0010	0514+40	-	0516+70	USH 8	58	Centerline skips
0010	0516+70	-	0523+86	USH 8	895	EB skips / WB solid centerline
0010	0523+86	-	0525+44	USH 8	316	Double centerline
0010	0525+44	-	0535+50	USH 8	1258	WB skips / EB solid centerline
0010	0535+50	-	0547+80	USH 8	2460	Double centerline
0010	0547+80	-	0557+10	USH 8	1163	EB skips / WB solid centerline
0010	0557+10	-	0564+31	USH 8	901	WB skips / EB solid centerline
0010	0564+31	-	0609+20	USH 8	8978	Double centerline
0010	0609+20	-	0620+41	USH 8	1401	EB skips / WB solid centerline
0010	0620+41	-	0624+05	USH 8	91	Double centerline
0010	0624+05	-	0635+60	USH 8	1444	WB skips / EB solid centerline
0010	0635+60	-	0642+20	USH 8	1320	Double centerline (Station Equation)
0010	0643+40	-	0644+45	USH 8	210	Double centerline (Station Equation)
0010	0644+45	-	0651+78	USH 8	916	EB skips / WB solid centerline
0010	0651+78	_	0655+17	USH 8	678	Double centerline
0010	0655+17	-	0658+08	USH 8	364	WB skips / EB solid centerline
0010	0658+08	_	0663+59	USH 8	138	Centerline skips
0010	0663+59	_	0665+62	USH 8	254	EB skips / WB solid centerline
0010	0665+62	_	0668+86	USH 8	648	Double centerline
0010	0668+86		0676+50	USH 8	955	WB skips / EB solid centerline
		-				• •
0010	0676+50	-	0725+00	USH 8	9700	Double centerline
0010	0725+00	-	0736+36	USH 8	1420	EB skips / WB solid centerline
0010	0736+36	-	0767+75	USH 8	785	Centerline skips
0010	0767+75	-	0778+90	USH 8	1394	WB skips / EB solid centerline
0010	0778+90	-	0785+55	USH 8	1330	Double centerline
0010	0785+55	-	0795+78	USH 8	1279	EB skips / WB solid centerline
0010	0795+78	-	0820+18	USH 8	610	Centerline skips
0010	0820+18	-	0833+03	USH 8	1606	WB skips / EB solid centerline
0010	0833+03	-	0877+07	USH 8	8808	Double centerline
0010	0877+07	-	0887+48	USH 8	1301	EB skips / WB solid centerline
0010	0887+48	-	0902+20	USH 8	368	Centerline skips
0010	0902+20	-	0913+00	USH 8	1350	WB skips / EB solid centerline
0010	0913+00	_	0916+57	USH 8	714	Double centerline
0010	0916+57	_	0927+63	USH 8	1383	EB skips / WB solid centerline
0010	0910+37	_	0927+03	USH 8	846	Centerline skips
0010		-	0972+68	USH 8	1401	WB skips / EB solid centerline
	0961+47	-				-
0010	0972+68	-	0977+53	USH 8	970	Double centerline
0010	0977+53	-	0988+43	USH 8	1363	EB skips / WB solid centerline
0010	0988+43	-	1038+20	USH 8	1244	Centerline skips
0010	1038+20	-	1049+61	USH 8	1426	WB skips / EB solid centerline
0010	1049+61	-	1085+15	USH 8	7108	Double centerline
0010	1085+15	-	1095+65	USH 8	1313	EB skips / WB solid centerline
0010	1095+65		1097+32	USH 8	42	Centerline skips
0010	1097+32	-	1108+03	USH 8	1339	WB skips / EB solid centerline
0010	1108+03	-	1110+00	USH 8	246	EB skips / WB solid centerline
0010	-	-	<u>-</u>	СТНН	50	Double centerline of sideroad
0010	-	_	-	СТН U	50	Double centerline of sideroad
0010	_	_	_	стно	200	Double centerline of sideroad
0010	-		<del>-</del>			Double centerinie of stueroau
				TOTAL	97194	

PROJECT NUMBER: 1590-16-71

HWY: USH 8

COUNTY: MARINETTE

MISCELLANEOUS QUANTITIES

SHEET

# PAVEMENT MARKING SAME DAY EPOXY 4-INCH

646.0406

					040.0406 VELLOW	
CATECORY	CTATION	TO	CTATION	LOCATION	YELLOW LF	DEMARKS
CATEGORY	STATION	то	STATION	LOCATION		REMARKS
0010	0352+90	-	0387+00	USH 8	6820	Double centerline
0010	0387+00	-	0398+00	USH 8	1375	EB skips / WB solid centerline
0010	0398+00	-	0414+75	USH 8	419	Centerline skips
0010	0414+75	-	0425+00	USH 8	1281	WB skips / EB solid centerline
0010	0425+00	-	0426+00	USH 8	25	Centerline skips
0010	0426+00	-	0435+75	USH 8	1219	EB skips / WB solid centerline
0010	0435+75	-	0436+75	USH 8	25	Centerline skips
0010	0436+75	-	0446+75	USH 8	1250	WB skips / EB solid centerline
0010	0446+75	-	0486+80	USH 8	8010	Double centerline
0010	0486+80	-	0497+75	USH 8	1369	EB skips / WB solid centerline
0010	0497+75	-	0505+50	USH 8	194	Centerline skips
0010	0505+50	-	0514+40	USH 8	1113	WB skips / EB solid centerline
0010	0514+40	-	0516+70	USH 8	58	Centerline skips
0010	0516+70	-	0523+86	USH 8	895	EB skips / WB solid centerline
0010	0523+86	-	0525+44	USH 8	316	Double centerline
0010	0525+44	-	0535+50	USH 8	1258	WB skips / EB solid centerline
0010	0535+50	-	0547+80	USH 8	2460	Double centerline
0010	0547+80	-	0557+10	USH 8	1163	EB skips / WB solid centerline
0010	0557+10	-	0564+31	USH 8	901	WB skips / EB solid centerline
0010	0564+31	-	0609+20	USH 8	8978	Double centerline
0010	0609+20	-	0620+41	USH 8	1401	EB skips / WB solid centerline
0010	0620+41	-	0624+05	USH 8	91	Double centerline
0010	0624+05	-	0635+60	USH 8	1444	WB skips / EB solid centerline
0010	0635+60	-	0642+20	USH 8	1320	Double centerline (Station Equation)
0010	0643+40	-	0644+45	USH 8	210	Double centerline (Station Equation)
0010	0644+45	-	0651+78	USH 8	916	EB skips / WB solid centerline
0010	0651+78	-	0655+17	USH 8	678	Double centerline
0010	0655+17	-	0658+08	USH 8	364	WB skips / EB solid centerline
0010	0658+08	-	0663+59	USH 8	138	Centerline skips
0010	0663+59	-	0665+62	USH 8	254	EB skips / WB solid centerline
0010	0665+62	-	0668+86	USH 8	648	Double centerline
0010	0668+86	-	0676+50	USH 8	955	WB skips / EB solid centerline
0010	0676+50	_	0725+00	USH 8	9700	Double centerline
0010	0725+00	_	0736+36	USH 8	1420	EB skips / WB solid centerline
0010	0736+36	-	0767+75	USH 8	785	Centerline skips
0010	0767+75	<u> </u>	0778+90	USH 8	1394	WB skips / EB solid centerline
0010		-			1330	Double centerline
	0778+90	-	0785+55	USH 8		
0010	0785+55	-	0795+78	USH 8	1279	EB skips / WB solid centerline
0010	0795+78	-	0820+18	USH 8	610	Centerline skips
0010	0820+18	-	0833+03	USH 8	1606	WB skips / EB solid centerline
0010	0833+03	-	0877+07	USH 8	8808	Double centerline
0010	0877+07	-	0887+48	USH 8	1301	EB skips / WB solid centerline
0010	0887+48	-	0902+20	USH 8	368	Centerline skips
0010	0902+20	-	0913+00	USH 8	1350	WB skips / EB solid centerline
0010	0913+00	-	0916+57	USH 8	714	Double centerline
0010	0916+57	-	0927+63	USH 8	1383	EB skips / WB solid centerline
0010	0927+63	-	0961+47	USH 8	846	Centerline skips
0010	0961+47	_	0972+68	USH 8	1401	WB skips / EB solid centerline
0010	0972+68	_	0977+53	USH 8	970	Double centerline
0010	0977+53	-	0988+43	USH 8	1363	EB skips / WB solid centerline
0010	0977+33	<u> </u>	1038+20	USH 8	1244	Centerline skips
		-				•
0010	1038+20	-	1049+61	USH 8	1426	WB skips / EB solid centerline
0010	1049+61	-	1085+15	USH 8	7108	Double centerline
0010	1085+15	-	1095+65	USH 8	1313	EB skips / WB solid centerline
0010	1095+65	-	1097+32	USH 8	42	Centerline skips
0010	1097+32	-	1108+03	USH 8	1339	WB skips / EB solid centerline
0010	1108+03	<u>-</u>	1110+00	USH 8	246	EB skips / WB solid centerline
				TOTAL	96894	

PROJECT NUMBER: 1590-16-71

HWY: USH 8

COUNTY: MARINETTE

MISCELLANEOUS QUANTITIES

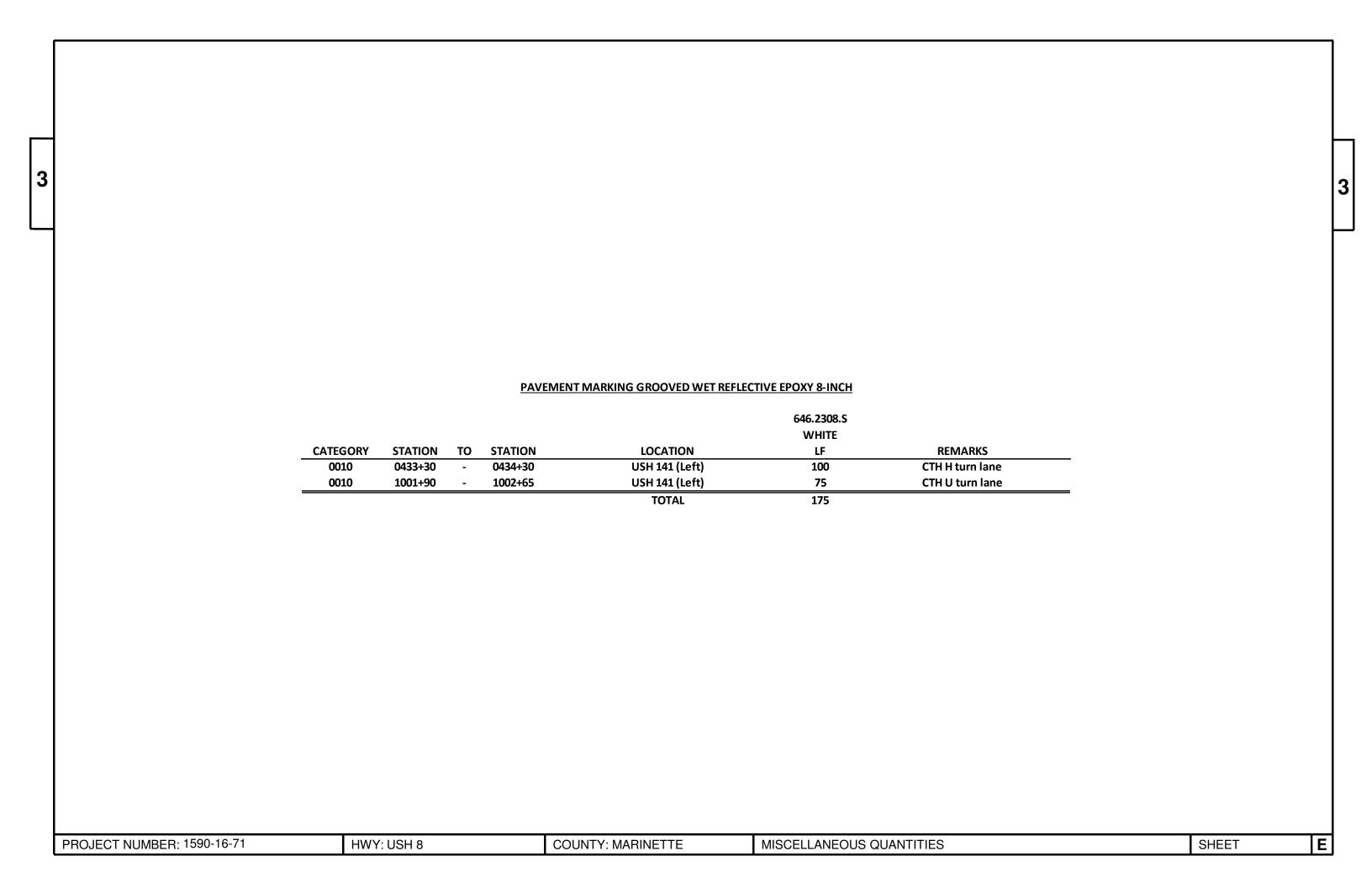
SHEET

# 3

# PAVEMENT MARKING GROOVED WET REFLECTIVE EPOXY 4-INCH

					646.2304.S WHITE	
CATEGORY	STATION	то	STATION	LOCATION	LF	REMARKS
0010	0353+29		0571+41	USH 8	21812	Left edge line
0010	-	-	-	County Line Road	-120	Break in edgeline at intersecting side road (Left side)
0010	_	_	_	Sandy Loop Road	-120	Break in edgeline at intersecting side road (Left side)
0010	-	_	-	стн н	-150	Break in edgeline at intersecting side road (Left side)
0010	_	-	_	Orchard Drive	-120	Break in edgeline at intersecting side road (Left side)
0010	-	-	-	Partridge Road	-120	Break in edgeline at intersecting side road (Left side)
0010	-	-	-	Snowshoe Drive	-140	Break in edgeline at intersecting side road (Left side)
0010	_	-	_	Clark Lake Road	-120	Break in edgeline at intersecting side road (Left side)
0010	0353+29	-	0563+18	USH 8	20989	Right edge line
0010	_	-	-	Camp B Loop Road	-100	Break in edgeline at intersecting side road (Right side)
0010	-	-	-	Franks Road	-100	Break in edgeline at intersecting side road (Right side)
0010	_	-	-	Twin Lake Road	-120	Break in edgeline at intersecting side road (Right side)
0010	-	-	-	Industrial Drive	-110	Break in edgeline at intersecting side road (Right side)
0010	0590+71	-	1073+00	USH 8	48229	Left edge line
0010	-	-	-	Ten Acre Road	-140	Break in edgeline at intersecting side road (Left side)
0010	-	-	-	Shrine Road	-120	Break in edgeline at intersecting side road (Left side)
0010	-	-	-	Forest Road 613	-115	Break in edgeline at intersecting side road (Left side)
0010	-	-	-	Jack Pine Drive	-120	Break in edgeline at intersecting side road (Left side)
0010	-	-	-	PE 848+00 LT	-60	Break in edgeline at intersecting private drive (Left side)
0010	-	-	-	PE 891+50 LT	-80	Break in edgeline at intersecting private drive (Left side)
0010	-	-	-	CTH U	-125	Break in edgeline at intersecting side road (Left side)
0010	-	-	-	Gasset Road	-100	Break in edgeline at intersecting side road (Left side)
0010	-	-	-	3rd Street	-85	Break in edgeline at intersecting side road (Left side)
0010	0593+03	-	1067+15	USH 8	47412	Right edge line
0010	-	-	-	Tower Road	-130	Break in edgeline at intersecting side road (Right side)
0010	-	-	-	Parkway Road (CTH I)	-130	Break in edgeline at intersecting side road (Right side)
0010	-	-	-	Forest Road 607	-100	Break in edgeline at intersecting side road (Right side)
0010	-	-	-	Pike River Drive	-100	Break in edgeline at intersecting side road (Right side)
0010	-	-	-	PE 848+00 RT	-80	Break in edgeline at intersecting private drive (Right side)
0010	-	-	-	Pike River Drive	-100	Break in edgeline at intersecting side road (Right side)
0010	-	-	-	Airport Road	-100	Break in edgeline at intersecting side road (Right side)
0010	1082+80	-	1110+00	USH 8	2720	Left edge line
0010	-	_	_	CTH 0	-120	Break in edgeline at intersecting side road (Left side)
0010	1084+90		1110+00	USH 8	2510	Right edge line
0010		_	-	Old County A Road	-125	Break in edgeline at intersecting side road (Right side)
				TOTAL	1/0/22	2. San in Cascinic at intersecting side road (right side)

TOTAL 140422



# 3

SHEET

# TEMPORARY PAVEMENT MARKING PAINT 4-INCH

649.0402

					YELLOW	
CATEGORY	STATION	то	STATION	LOCATION	LF	REMARKS
0010	0352+90	-	0387+00	USH 8	6820	Double centerline
0010	0387+00	-	0398+00	USH 8	1188	EB skips / WB solid centerline
0010	0398+00	-	0414+75	USH 8	134	Centerline skips
0010	0414+75	-	0425+00	USH 8	1107	WB skips / EB solid centerline
0010	0425+00	-	0426+00	USH 8	8	Centerline skips
0010	0426+00	-	0435+75	USH 8	1053	EB skips / WB solid centerline
0010	0435+75	-	0436+75	USH 8	8	Centerline skips
0010	0436+75	-	0446+75	USH 8	1080	WB skips / EB solid centerline
0010	0446+75	-	0486+80	USH 8	8010	Double centerline
0010	0486+80	-	0497+75	USH 8	1183	EB skips / WB solid centerline
0010	0497+75	-	0505+50	USH 8	62	Centerline skips
0010	0505+50	-	0514+40	USH 8	961	WB skips / EB solid centerline
0010	0514+40	-	0516+70	USH 8	18	Centerline skips
0010	0516+70	-	0523+86	USH 8	773	EB skips / WB solid centerline
0010	0523+86	-	0525+44	USH 8	316	Double centerline
0010	0525+44	-	0535+50	USH 8	1086	WB skips / EB solid centerline
0010	0535+50	-	0547+80	USH 8	2460	Double centerline
0010	0547+80	-	0557+10	USH 8	1004	EB skips / WB solid centerline
0010	0557+10	-	0564+31	USH 8	779	WB skips / EB solid centerline
0010	0564+31	-	0609+20	USH 8	8978	Double centerline
0010	0609+20	-	0620+41	USH 8	1211	EB skips / WB solid centerline
0010	0620+41	-	0624+05	USH 8	29	Double centerline
0010	0624+05	-	0635+60	USH 8	1247	WB skips / EB solid centerline
0010	0635+60	-	0642+20	USH 8	1320	Double centerline (Station Equation)
0010	0643+40	-	0644+45	USH 8	210	Double centerline (Station Equation)
0010	0644+45	-	0651+78	USH 8	792	EB skips / WB solid centerline
0010	0651+78	-	0655+17	USH 8	678	Double centerline
0010	0655+17	-	0658+08	USH 8	314	WB skips / EB solid centerline
0010	0658+08	-	0663+59	USH 8	44	Centerline skips
0010	0663+59	-	0665+62	USH 8	219	EB skips / WB solid centerline
0010	0665+62	-	0668+86	USH 8	648	Double centerline
0010	0668+86	-	0676+50	USH 8	825	WB skips / EB solid centerline
0010	0676+50	-	0725+00	USH 8	9700	Double centerline
0010	0725+00	-	0736+36	USH 8	1227	EB skips / WB solid centerline
0010	0736+36	-	0767+75	USH 8	251	Centerline skips
0010	0767+75	-	0778+90	USH 8	1204	WB skips / EB solid centerline
0010	0778+90	_	0785+55	USH 8	1330	Double centerline
0010	0785+55	_	0795+78	USH 8	1105	EB skips / WB solid centerline
0010	0795+78	_	0820+18	USH 8	195	Centerline skips
0010	0820+18	_	0833+03	USH 8	1388	WB skips / EB solid centerline
0010	0833+03	_	0877+07	USH 8	8808	Double centerline
0010	0877+07	_	0887+48	USH 8	1124	EB skips / WB solid centerline
0010	0887+48	_	0902+20	USH 8	118	Centerline skips
0010	0902+20	-	0902+20	USH 8	1166	WB skips / EB solid centerline
		-			714	Double centerline
0010	0913+00	-	0916+57	USH 8		
0010	0916+57	-	0927+63	USH 8	1194	EB skips / WB solid centerline
0010	0927+63	-	0961+47	USH 8	271	Centerline skips
0010	0961+47	-	0972+68	USH 8	1211	WB skips / EB solid centerline
0010	0972+68	-	0977+53	USH 8	970	Double centerline
0010	0977+53	-	0988+43	USH 8	1177	EB skips / WB solid centerline
0010	0988+43	-	1038+20	USH 8	398	Centerline skips
0010	1038+20	-	1049+61	USH 8	1232	WB skips / EB solid centerline
0010	1049+61	=	1085+15	USH 8	7108	Double centerline
			1095+65	USH 8	1134	EB skips / WB solid centerline
0010	1085+15	-		05110		LD Skips / VVD Sond Centernie
0010 0010	1085+15 1095+65	-	1097+32	USH 8	13	Centerline skips
		- - -				• •
0010	1095+65	- - -	1097+32	USH 8	13	Centerline skips

TOTAL (2 appliciations- milled surface and binder layer): 177946

**CONSTRUCTION STAKING SUMMARY** 650.5500 650.8000 650.9910 650.9920 CONSTRUCTION CONSTRUCTION CONSTRUCTION STAKING STAKING STAKING STAKING CURB GUTTER AND RESURFACING SUPPLEMENTAL SLOPE CURB AND GUTTER REFERENCE CONTROL STAKES CATEGORY LOCATION LF LF LS LF REMARKS 0010 STA. 563+18 - STA. 593+03 4880 5970 0010 PROJECTWIDE 75314 1 27760 33730 TOTALS: 4880 75314 1 NOTE: ADDITIONAL CONSTRUCTION STAKING ITEMS SHOWN ELSEWHERE

	SAWING SUMMARY						
		690.0150	690.0250				
		ASPHALT	CONCRETE				
CATEGORY	LOCATION	LF	LF	REMARKS			
0010	ROADWAY BUTT JOINT LOCATIONS	845					
0010	CURB & GUTTER REMOVALS	6815	35				
0010	STORM SEWER REMOVALS	1100					
0010	GOODMAN DRIVEWAYS AND WALKWAYS	295	60				
0010	RURAL DRIVEWAYS	1020					
	TOTALS:	10075	95				

PROTECT	TIVE THERMOPLASTIC COATING	G AT SNOWMOBILE C	ROSSING
		SPV.0180.01	
CATEGORY	LOCATION	SY	REMARKS
0010	STA. 1057+45	60	
			_
	TOTALS:	60	_

# - MARINETTE COUNTY

# STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION TRANSPORTATION PROJECT PLAT TITLE SHEET

1590-16-21

WCL - USH 141 WCL - CTH O USH 8 MARINETTE COUNTY

R 18 E

R 19 E

DUNBAR

T 37 N

36 N

35 N

R 17 E

GOODMAN

CONVENTIONAL SYMBOLS

R/W MONUMENT SECTION LINE CORNER NON-MONUMENTED O QUARTER LINE R/W POINT NOTATION FOR COMBUSTABLE CAUTION SIXTEENTH LINE NOTATION FOR FOUND IRON PIN NEW REFERENCE LINE FLUIDS VALVE (GAS. NEW R/W LINE WATER, ETC.) EXISTING R/W LINE NOTATION FOR HIGH VOLTAGE SIGN SIGN OFF-PREMISE 41-25 SIGN PROPERTY LINE LOT, TIE & OTHER MINOR LINES CORPORATE LIMITS 111111111 COMPENSABLE NON-COMPENSABLE UNDERGROUND FACILITY (COMMUNICATIONS, ELECTRIC, ETC) FLECTRIC POLE Ь TELEPHONE POLE FEE ACQUISITION AREA (HATCHING VARIES BY OWNER) PEDESTAL (LABEL TYPE) (TV. TEL. ELEC. ETC.) TEMPORARY LIMITED EASEMENT AREA ACCESS CONTROLLED BY ACQUISITION EASEMENT AREA (HIGHWAY, PERMANENT LIMITED, OR NO ACCESS (BY STATUTORY AUTHORITY)

ACCESS RESTRICTED (BY PREVIOUS RESTRICTED DEVELOPMENT) 

NATIONAL GEODETIC SURVEY MONUMENT 🛆 SIXTEENTH CORNER MONUMENT

PROJECT OR CONTROL)

PARCEL NUMBER

(25) UTILITY NUMBER

# CONVENTIONAL ABBREVIATIONS

ACCESS RIGHTS	AR	POINT OF COMPOUND CURVE	PCC
ACRES	AC	POINT OF INTERSECTION	ΡI
AHEAD	AH	PROPERTY LINE	PL
ALUMINUM	ALUM	RECORDED AS	(100'
AND OTHERS	ET AL	REFERENCE LINE	R/L
BACK	BK	REMAINING	REM
BLOCK	BLK	RIGHT	RT
CENTERLINE	C/L	RIGHT OF WAY	R/W
CERTIFIED SURVEY MAP	CSM	SECTION	SEC
CONCRETE	CONC	SEPTIC VENT	SEPV
COUNTY	CO	SQUARE FEET	SF
COUNTY TRUNK HIGHWAY	CTH	STATE TRUNK HIGHWAY	STH
DISTANCE	DIST	STATION	STA
CORNER	COR	SUBDIVISION	SUBC
DOCUMENT NUMBER	DOC	TANGENT	TAN
EASEMENT	EASE	TELEPHONE PEDESTAL	TP
EXISTING	EX	TEMPORARY LIMITED	TLE
GAS VALVE	GV	EASEMENT	
GRID NORTH	GN	TRANSPORTATION PROJECT	TPP
HIGHWAY EASEMENT		PLAT	
IDENTIFICATION	ID	UNITED STATES HIGHWAY	USH
LAND CONTRACT	LC	VOLUME	V
LEFT	LT		
MONUMENT	MON	CURVE DATA	
NATIONAL GEODETIC SURVEY			
NUMBER	NO	LONG CHORD	LC
OUTLOT	OL	LONG CHORD BEARING	LCB
PAGE	P	RADIUS DEGREE OF CURVE	R D
POINT OF TANGENCY	PT	CENTRAL ANGLE OR DELTA	Δ
PERMANENT LIMITED	PLE	LENGTH OF CURVE	

PROJECT LOCATION

CONVENTIONAL UTILITY SYMBOLS

GAS TELEPHONE

FLECTRIC

TRANSMISSION LINES

CABLE TELEVISION

FIBER OPTIC SANITARY SEWER

STORM SEWER

LAYOUT 2 MI. 4 MI. THE NOTES, CONVENTIONAL SIGNS, AND ABBREVIATIONS ARE ASSOCIATED WITH EACH TRANSPORTATION PROJECT PLAT FOR PROJECT 1590-16-21

POSITIONS SHOWN ON THIS PLAT ARE WISCONSIN COUNTY COORDINATES, MARINETTE COUNTY, NADB3 (1991).IN US SURVEY FEET. VALUES SHOWN ARE GRID COORDINATES, GRID BEARINGS, AND GRID DISTANCES. GRID DISTANCES MAY BE USED AS GROUND DISTANCES.

ALL NEW RIGHT-OF-WAY MONUMENTS WILL BE TYPE 2 (TYPICALLY 1" X 24" IRON PIPE), UNLESS OTHERWISE NOTED, AND WILL BE PLACED PRIOR TO THE COMPLETION OF THE PROJECT.

ALL RIGHT-OF-WAY LINES DEPICTED IN THE NON-ACQUISITION AREAS ARE INTENDED TO RE-ESTABLISH EXISTING RIGHT-OF-WAY LINES AS DETERMINED FROM PREVIOUS PROJECTS, OTHER RECORDED DOCUMENTS, OR FROM CENTERLINE OF EXISTING PAVEMENTS.

RIGHT-OF-WAY BOUNDARIES ARE DEFINED WITH COURSES OF THE PERIMETER OF THE HIGHWAY LANDS REFERENCED TO THE U.S. PUBLIC LAND SURVEY SYSTEM OR OTHER "SURVEYS" OF PUBLIC RECORD.

DIMENSIONING FOR THE NEW RIGHT-OF-WAY IS MEASURED ALONG AND PERPENDICULAR TO THE NEW REFERENCE LINES.

A TEMPORARY LIMITED EASEMENT (TLE) IS A RIGHT FOR CONSTRUCTION PURPOSES, A IEMPURARY LIMITED EASEMENT (ILE) IS A RIGHT FOR CONSTRUCTION PURPOSES, AS DEFINED HEREIN, INCLUDING THE RIGHT TO OPERATE NECESSARY EQUIPMENT THEREON, THE RIGHT OF INGRESS AND EGRESS, AS LONG AS REQUIRED FOR SUCH PUBLIC PURPOSE, INCLUDING THE RIGHT TO PRESERVE, PROTECT, REMOVE, OR PLANT THEREON ANY VEGETATION THAT THE HIGHWAY AUTHORITIES MAD DEEM DESIRABLE. ALL (TLES) ON THIS PLAT EXPIRE AT THE COMPLETION OF THE CONSTRUCTION PROJECT FOR WHICH THIS INSTRUMENT IS GIVEN.

A PERMANENT LIMITED EASEMENT (PLE) IS A RIGHT FOR CONSTRUCTION AND A PERMANENT LIMITED EASEMENT (PLE) IS A RIGHT FOR CONSTRUCTION AND MAINTENANCE PURPOSES, AS DEFINED HEREIN, INCLUDING THE RIGHT TO OPERATE NECESSARY EQUIPMENT THEREON AND THE RIGHT OF INCRESS AND EGRESS, AS LONG AS REQUIRED FOR SUCH PUBLIC PURPOSE, INCLUDING THE RIGHT TO PRESERVE, PROTECT, REMOVE, OR PLANT THEREON ANY VEGETATION THAT THE HIGHWAY AUTHORITIES MAY DEEM DESIRABLE, BUT WITHOUT PREJUDICE TO THE OWNER'S RIGHTS TO MAKE OR CONSTRUCT IMPROVEMENTS ON SAID LANDS OR TO FLATTEN THE SLOPES, PROVIDING SAID ACTIVITIES WILL NOT IMPAIR OR OTHERWISE ADVERSELY AFFECT THE HIGHWAY FACILITIES.

A HIGHWAY EASEMENT (HE) IS AN EASEMENT FOR HIGHWAY PURPOSES, AS LONG AS SO USED, INCLUDING THE RIGHT TO PRESERVE, PROTECT, REMOVE, OR PLANT THEREON ANY VEGETATION THAT THE HIGHWAY AUTHORITIES MAY DEEM DESIRABLE.

PROPERTY LINES SHOWN ON THIS PLAT ARE DRAWN FROM DATA DERIVED FROM MAPS AND DOCUMENTS OF PUBLIC RECORD AND/OR EXISTING OCCUPATIONAL LINES. THIS PLAT MAY NOT BE A TRUE REPRESENTATION OF EXISTING PROPERTY LINES, EXCLUDING RIGHT-OF-WAY, AND SHOULD NOT BE USED AS A SUBSTITUTE FOR AN ACCURATE FIELD SURVEY.

FOR THE LATEST ACCESS/DRIVEWAY INFORMATION, CONTACT THE PLANNING UNIT OF THE WISCONSIN DEPARTMENT OF TRANSPORTATION OFFICE IN GREEN BAY

PARCEL IDENTIFICATION NUMBERS MAY NOT POINT TO ALL AREAS OF ACQUISITION, AS NOTED ON THE SCHEDULE OF LANDS & INTERESTS REQUIRED.

EXISTING HIGHWAY RIGHT-OF-WAY SHOWN HEREIN IS BASED ON THE FOLLOWING POINTS OF REFERENCE:

PLAT OF GOODMAN, R.W PROJECT 1590-02-21, AND EXISTING HIGHWAY RIGHT-OF-WAY FOR SIDE ROADS ESTABLISHED FROM CENTERLINE OF EXISTING

PLOT NAME :

RESERVED FOR REGISTER OF DEEDS PROJECT NUMBER 1590-16-21 - 4.01 SHEET 2 OF 2 AMENDMENT NO:

LENGTH OF CURVE

DIRECTION AHEAD

TANGENT

FASEMENT

POINT OF BEGINNING

POINT OF CURVATURE

# TRANSPORTATION PROJECT PLAT AFFIDAVIT OF CORRECTION Document Number

Wisconsin Department of Transportation D712016 s. 84.095(3)(b) Wis. Stats. Exempt from filing transfer return form [s. 77.21(1), 77.22(1), Wis. Stats.]

13, This Affidavit of Correction applies to Transportation Project Plat 1590-16-21-4.01, recorded in Document Number 804953 on July 2016, in the Office of the Register of Deeds for Marinette County.

AFFIANT makes this Affidavit for the purpose of correcting the document above as follows:

(100)

THE MIDWEST-WISCONSIN, LLC RECORD- PARCEL 1 OF. 0F CENTURYTEL OI NO EASEMENT

It should read The note above is incorrect. THE MIDWEST-WISCONSIN, I RECORD- PARCEL 1 AND OF 9 CENTURYTEL C NO EASEMENT (00)

MARINETTE COUNTY REGISTER OF DEEDS Aug 22, 2016 3:14 PM Fee Amount: 30.00 Transfer Fee: 0.00 Fee Exempt: DOC. #: 806180 RENEE MILLER

\*\*The above recording information verifies that this

document has been electronically recorded and returned to WisDOT – NE Region – Green Bay\*\*

This space is reserved for recording data

Wisconsin Department of Transportation 944 Vanderperren Way Green Bay, WI 54304

Attn: Real Estate

Parcel Identification Number/Tax Key Number Utility

LLC

CHRADER NIS WISCO NOTARY Σ.  $^{PUBUI_{C}}$ STIN 194 STATE

I certify that I represent the entity, which prepared or submitted the original plat. This Affidavit of Correction has been approved by the Wisconsin Department of Transportation.

Carolyn Sampson arsi

Right of Way Plat Coordinator

Subscribed and sworn to before me this date.

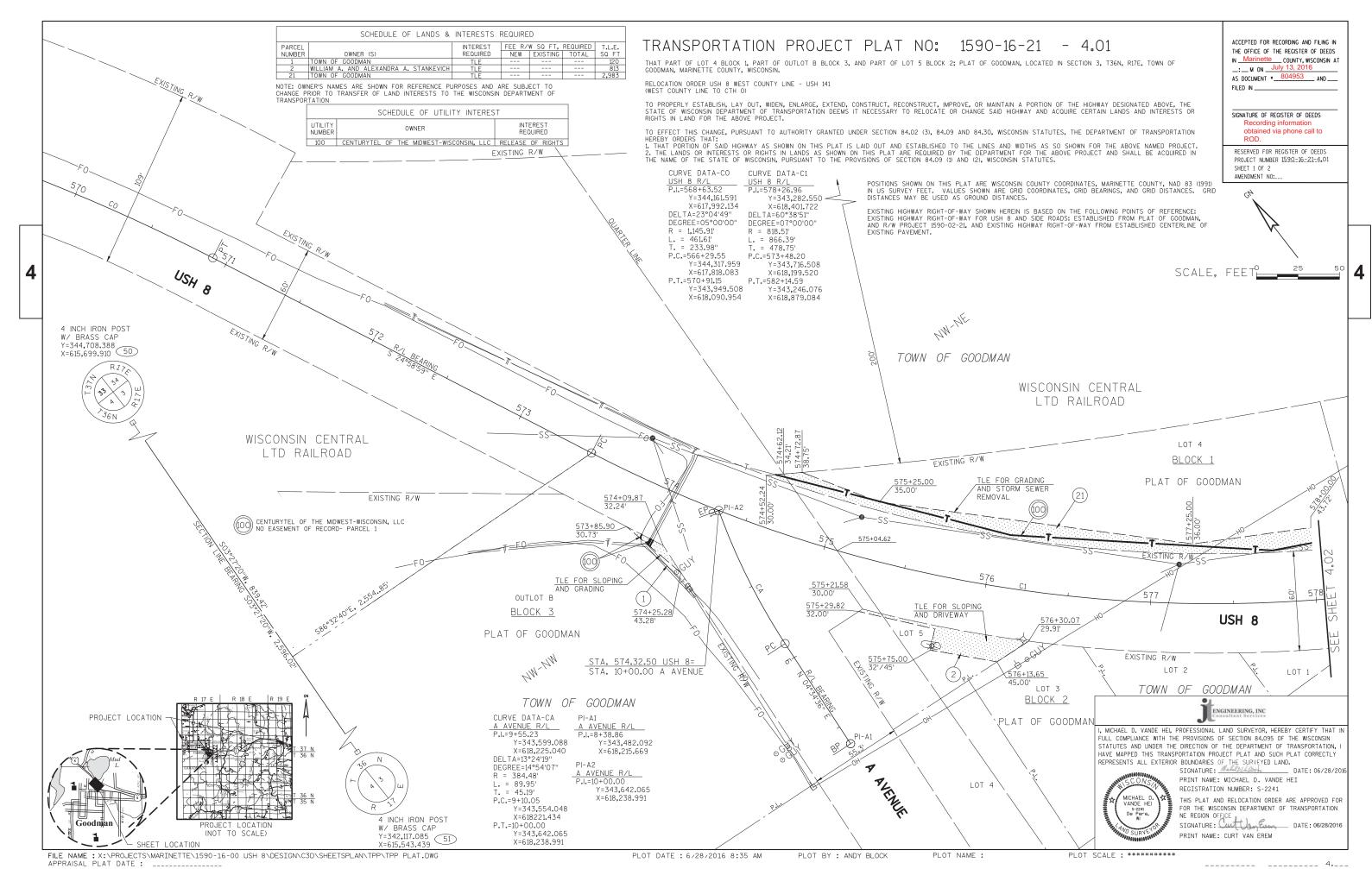
OD

County State of Wisconsin Brown

cle r wisten

Seai(s)

1590-16-21



# TRANSPORTATION PROJECT PLAT AFFIDAVIT OF CORRECTION Document Number

Wisconsin Department of Transportation DT1590 7/2016 s. 84.095(3)(b) Wis. Stats. Exempt from filing transfer return form [s. 77.21(1), 77.22(1), Wis. Stats.]

This Affidavit of Correction applies to Transportation Project Plat 1590-16-21-4.02, recorded in Document Number 805456 on July 27, 2016, in the Office of the Register of Deeds for Marinette County.

AFFIANT makes this Affidavit for the purpose of correcting the document above as follows:

THE MIDWEST-WISCONSIN, RECORD- PARCEL 3 AN 님 P CENTURYTEL (NO EASEMENT ((00))

It should read The note above is incorrect.

LLC D 21 MIDWEST-WISCONSIN, L F THE MIDWE OF RECORD-9 CENTURYTEL (NO EASEMENT

2 DOC. #: 806182 RENEE MILLER MARINETTE COUNTY REGISTER OF DEEDS Aug 22, 2016 3:14 PN Fee Amount: 30.00 Transfer Fee: 0.00 806182

\*\*The above recording information verifies that this document has been electronically recorded and returned to WisDOT – NE Region – Green Bay\*\* Fee Exempt:

This space is reserved for recording

LLC

4

AND

Wisconsin Department of Transportation 944 Vanderperren Way Green Bay, WI 54304

Attn: Real Estate

Parcel Identification Number/Tax Key Number Utility

I certify that I represent the entity, which prepared or submitted the original plat. This Affidavit of Correction has been approved by the Wisconsin Department of Transportation.

Carolyn Sampson (Print Name) (Signatiyre)

Right of Way Plat Coordinator

Subscribed and sworn to before me this date.

MISCONS

SCHRADER

2

NITSTAL

TON TON

A PARTY

20/12 S 00

State of Wisconsin

County

Brown

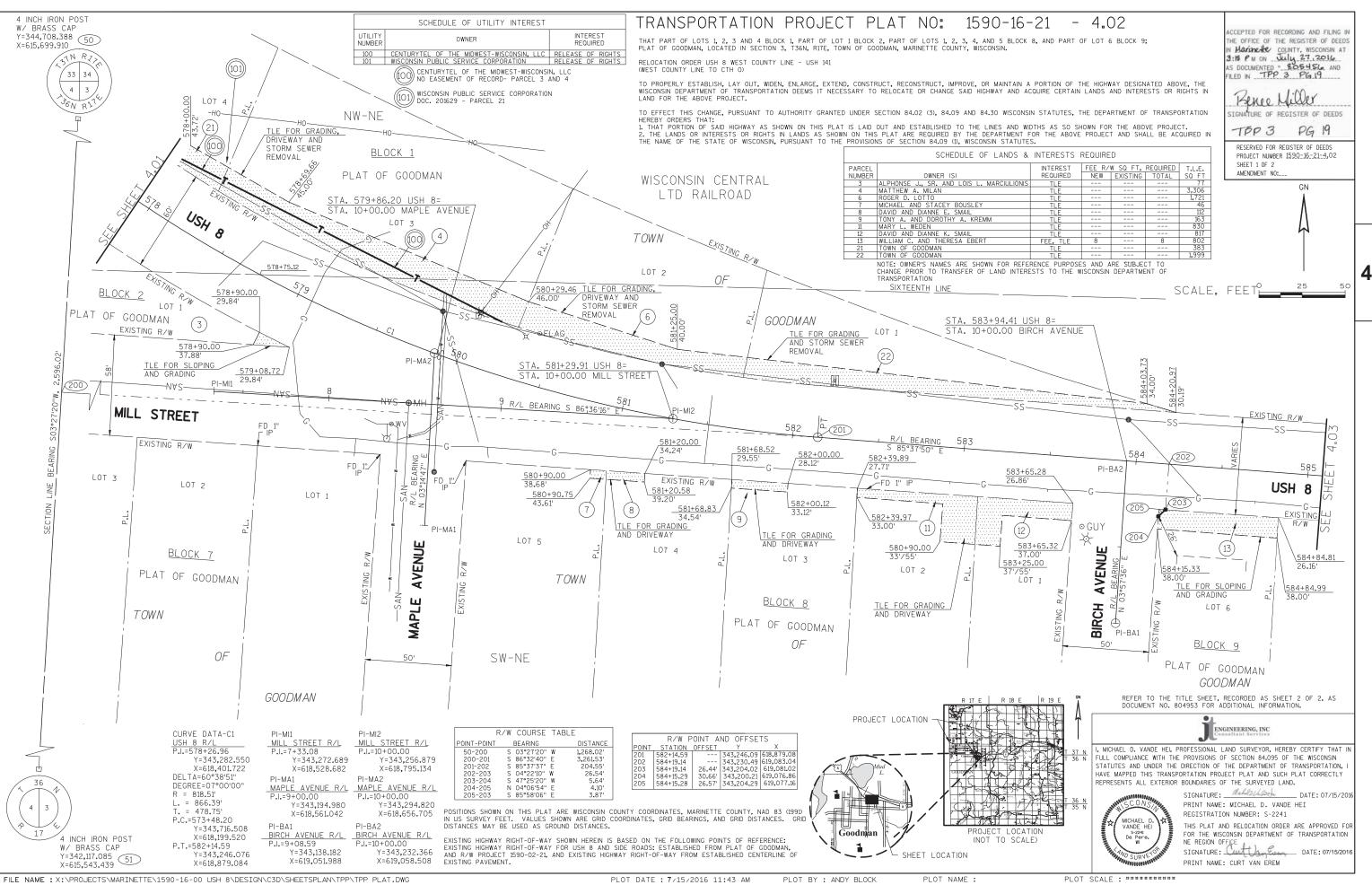
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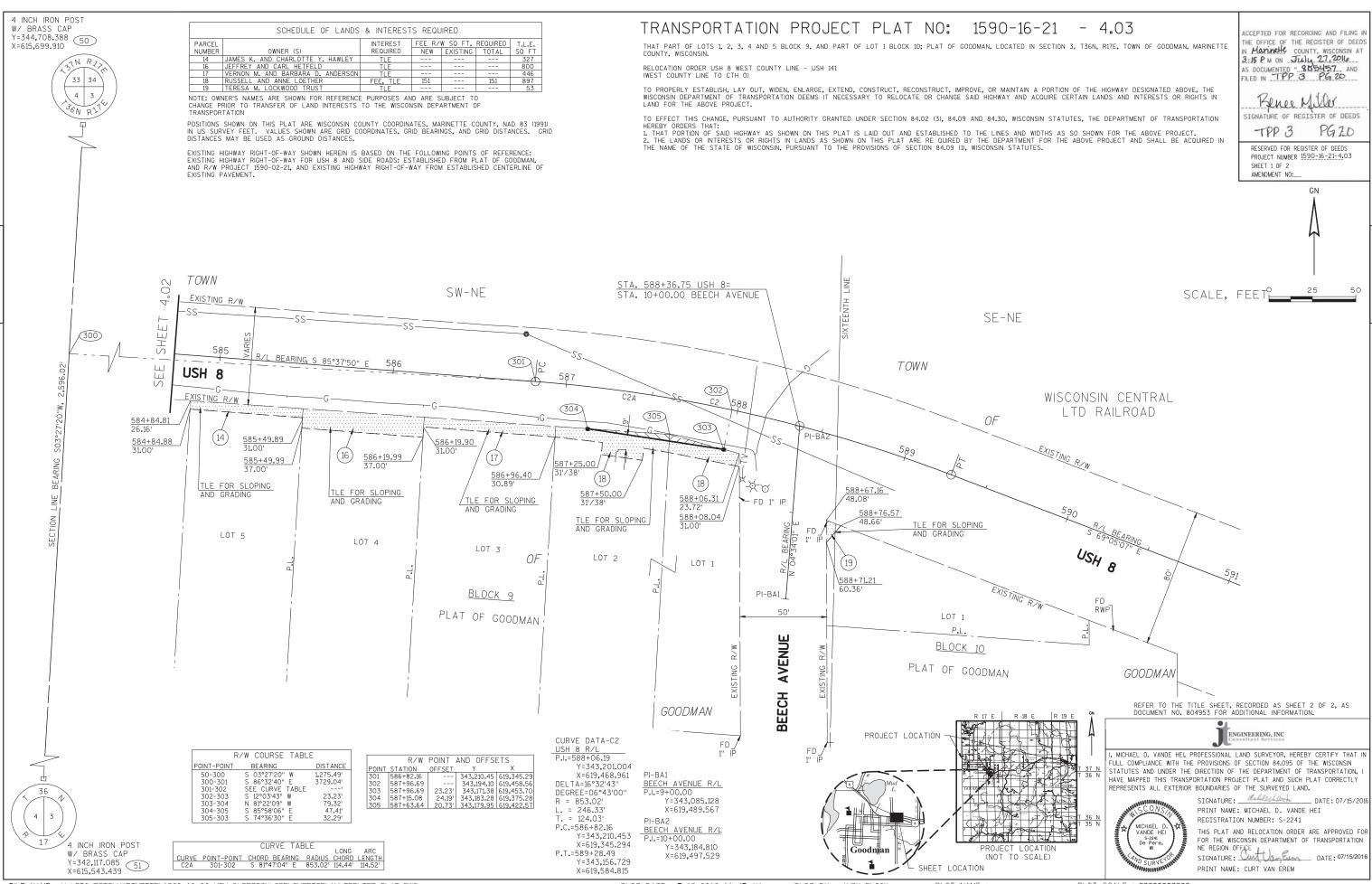
Kristin

707 0

Seal(s)

1590-16-21





FILE NAME : X:\PROJECTS\MARINETTE\1590-16-00 USH 8\DESIGN\C3D\SHEETSPLAN\TPP\TPP PLAT.DWG

PLOT DATE : 7/15/2016 11:47 AM

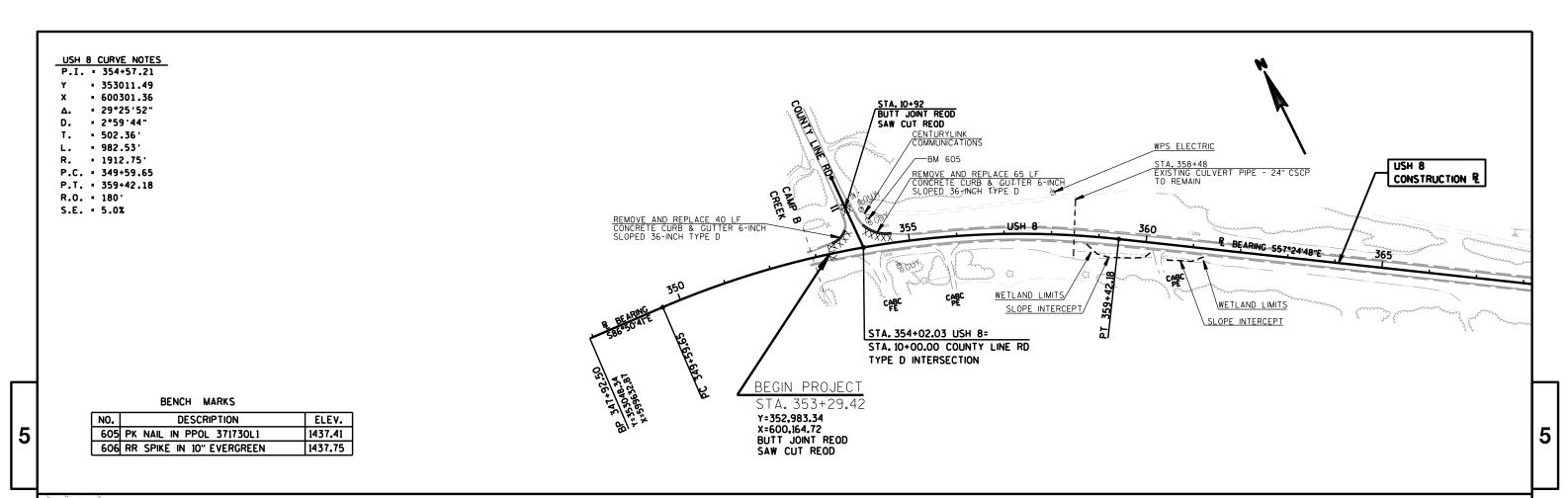
PLOT BY : ANDY BLOCK

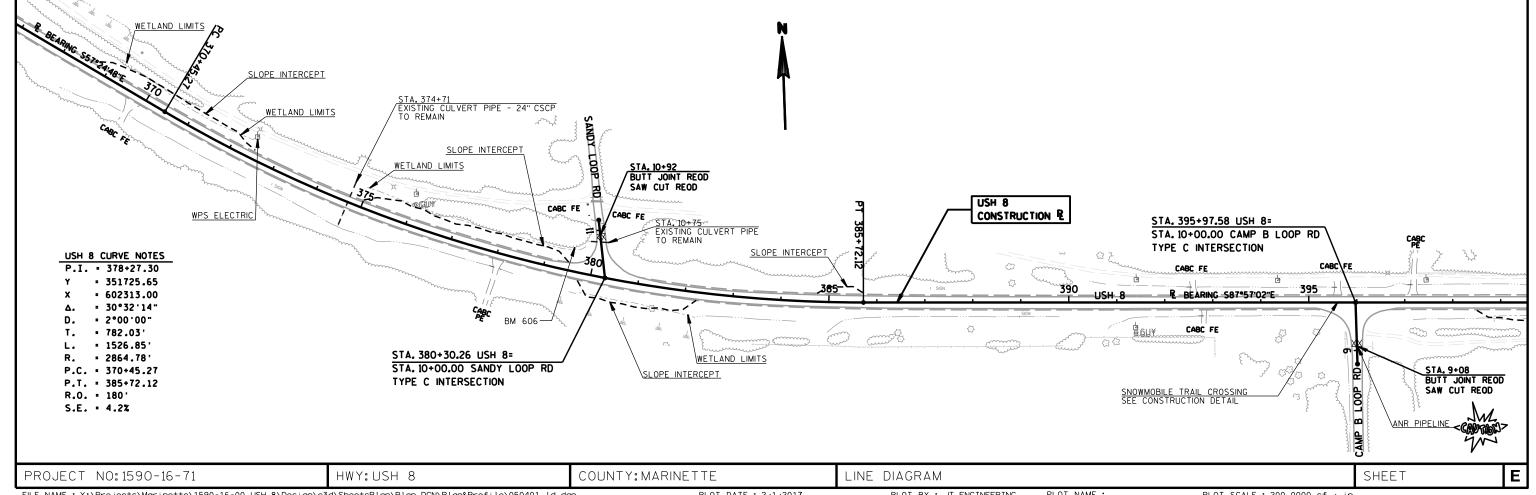
PLOT NAME: PLOT S

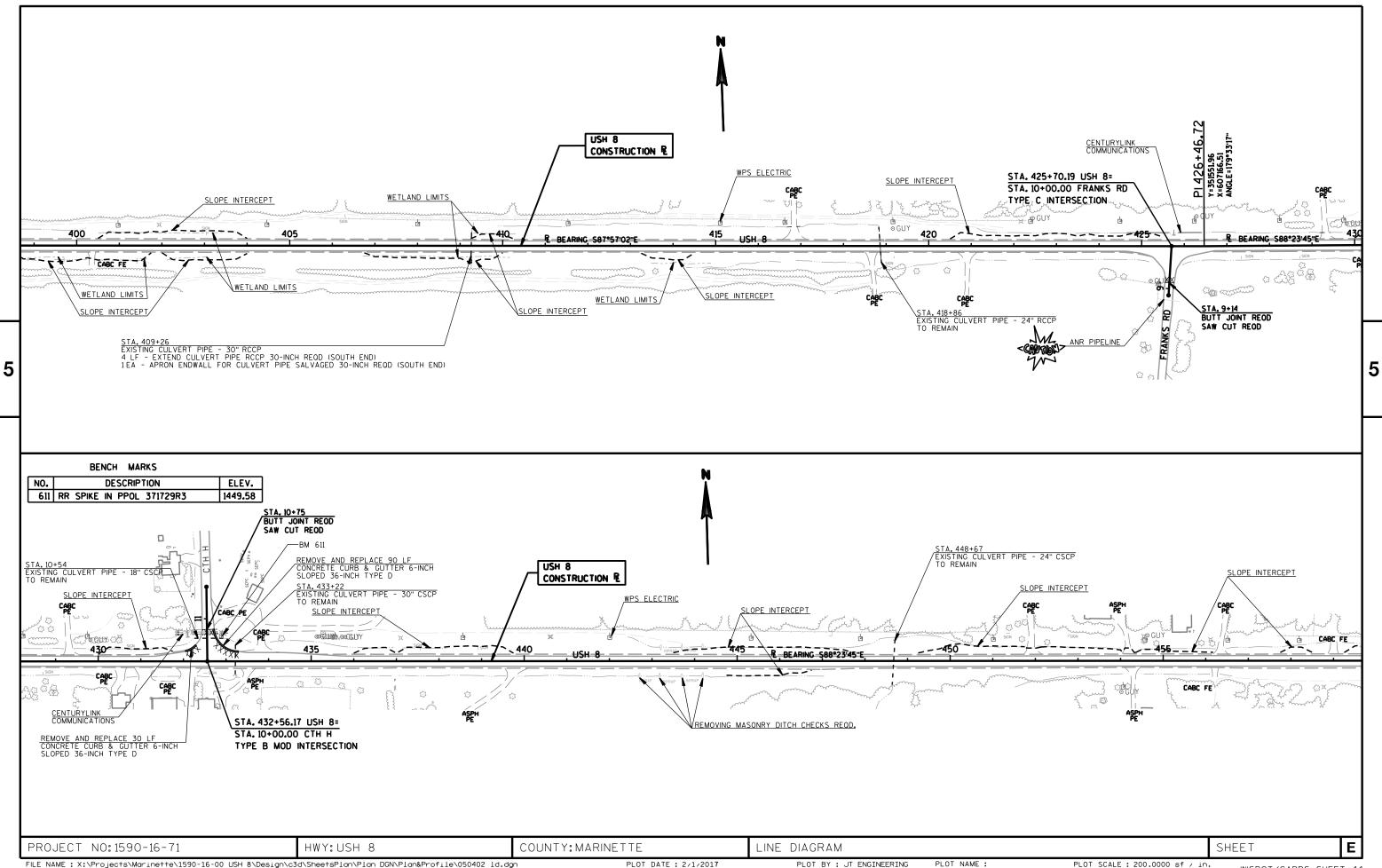
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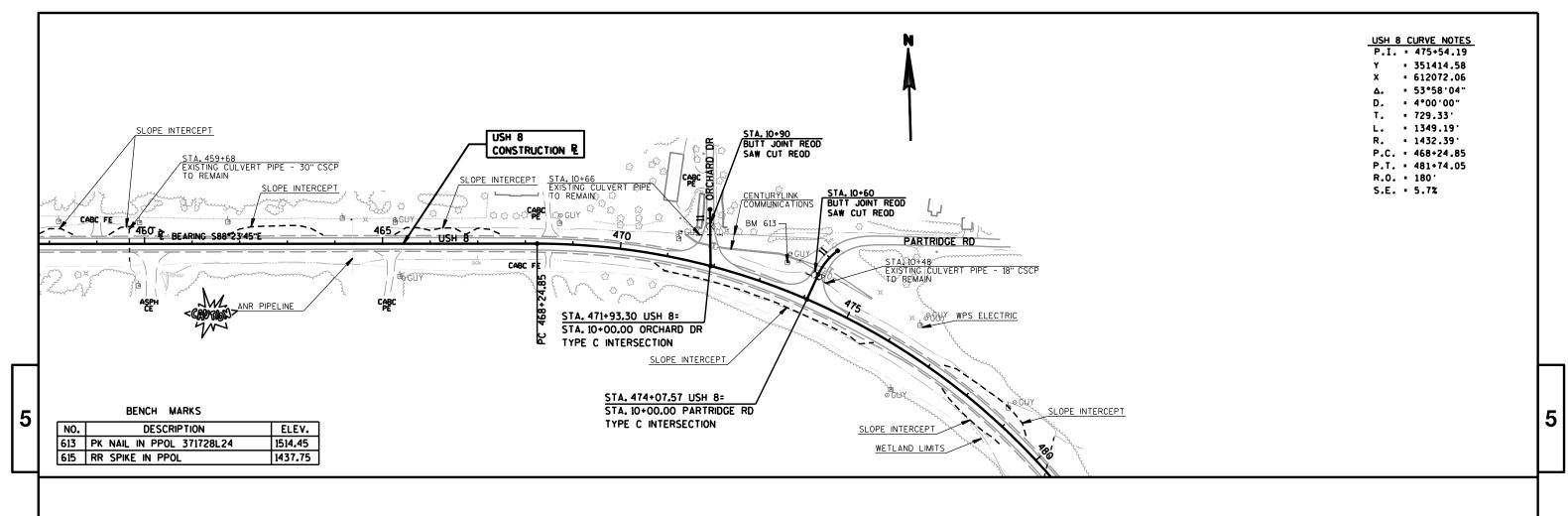
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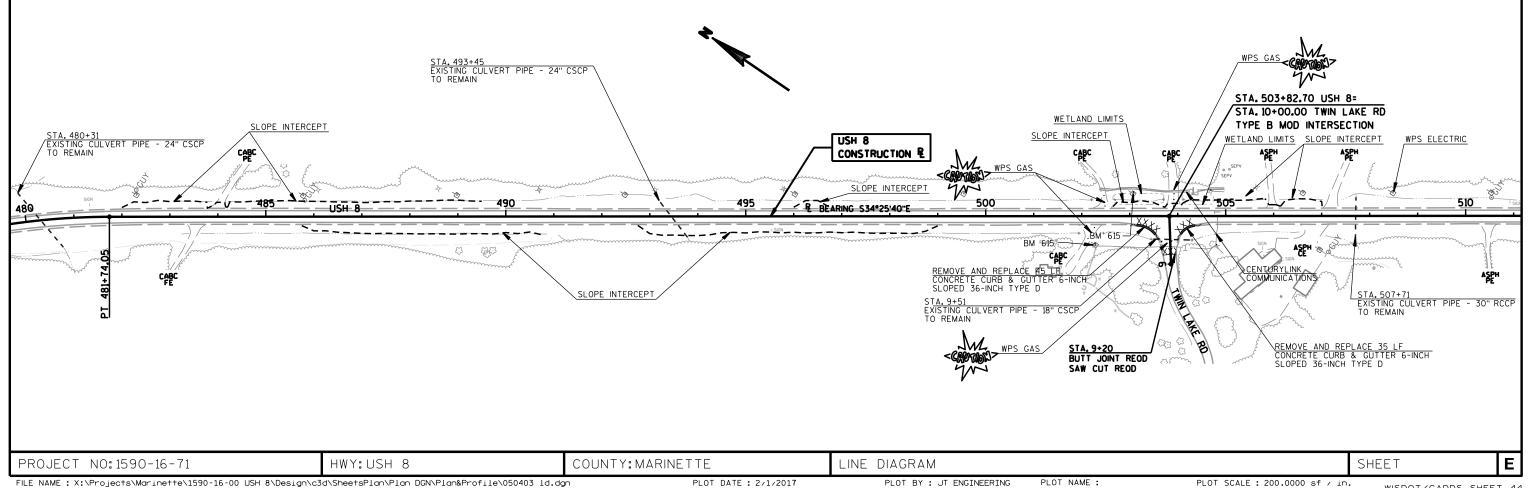
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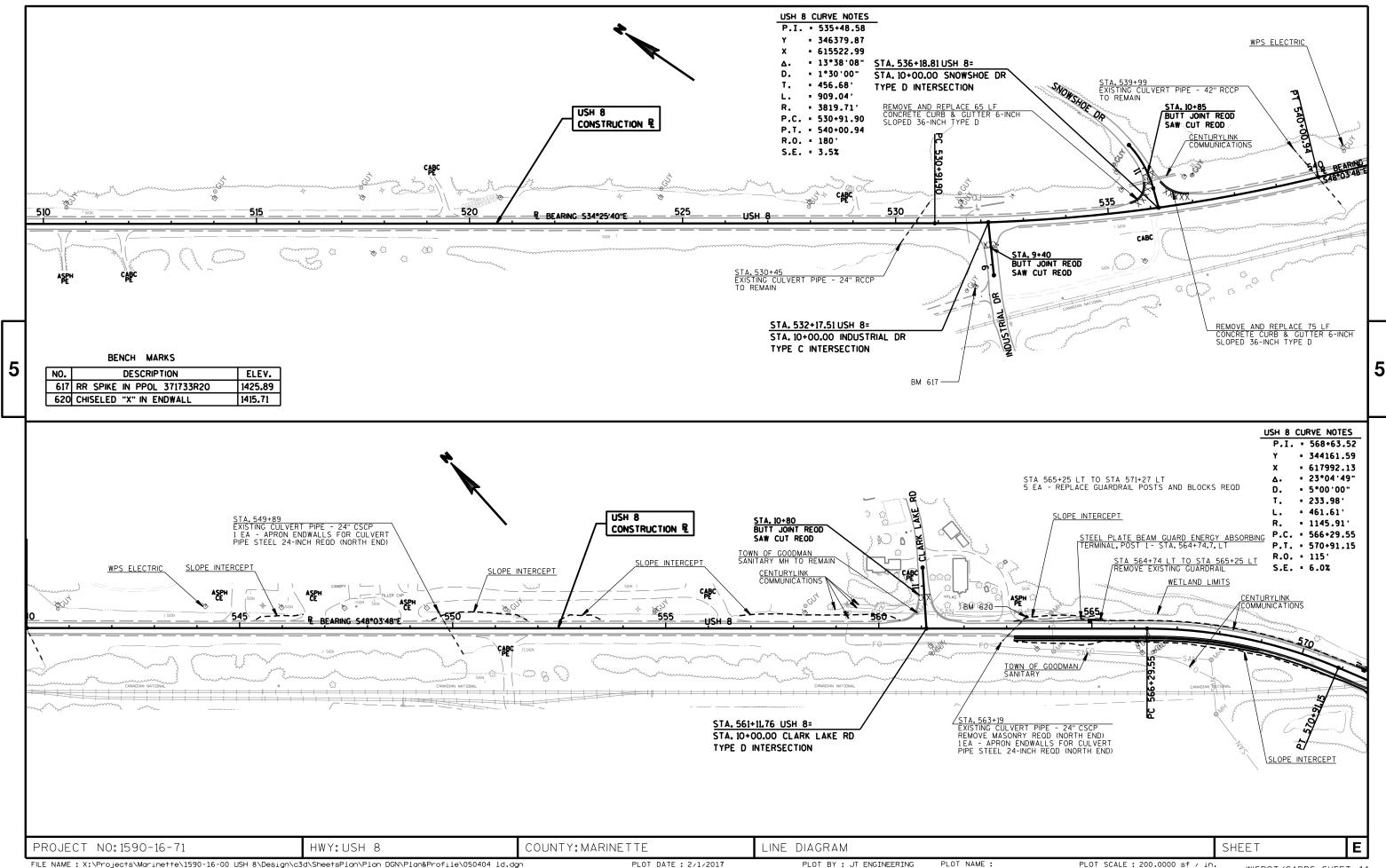


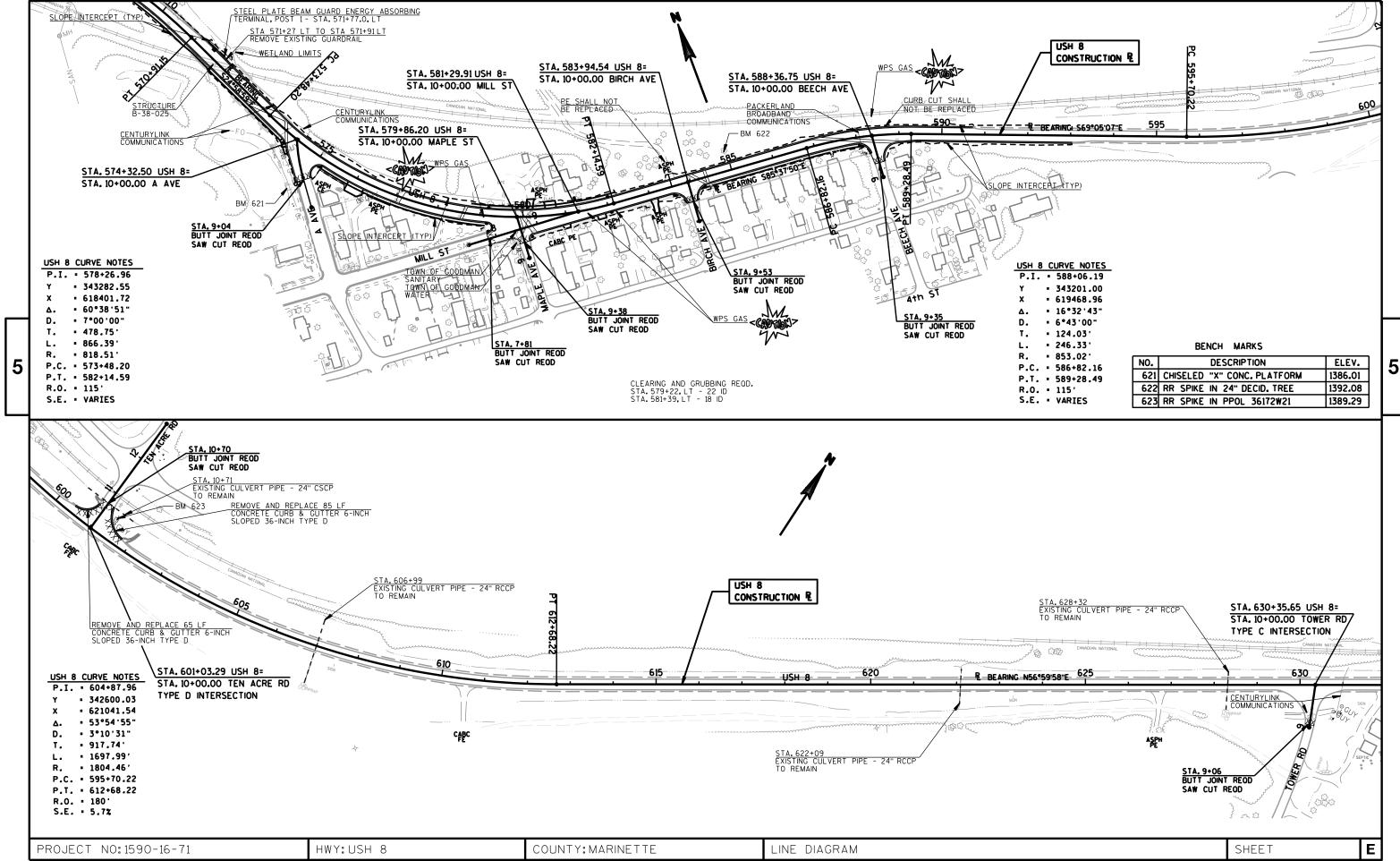


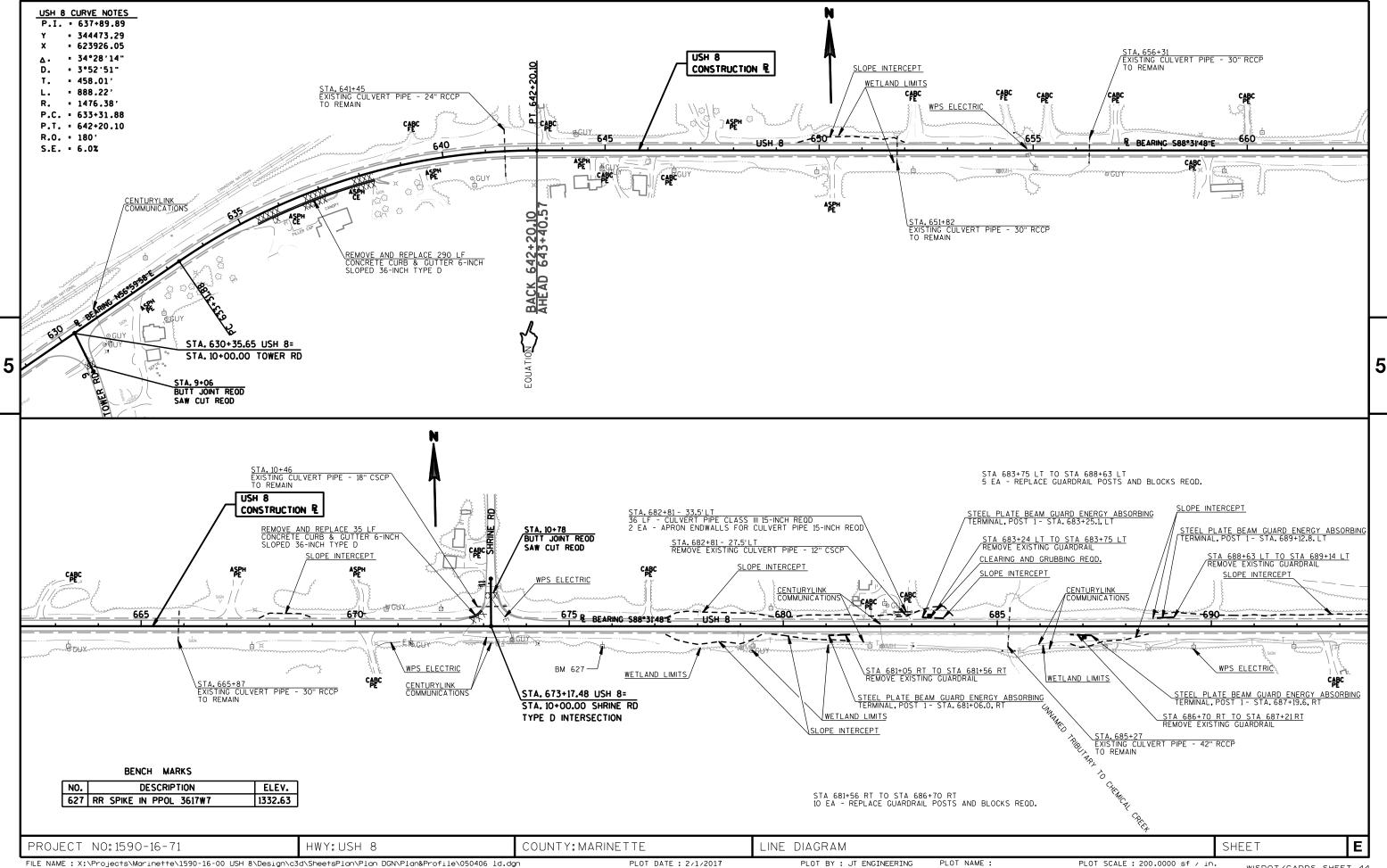


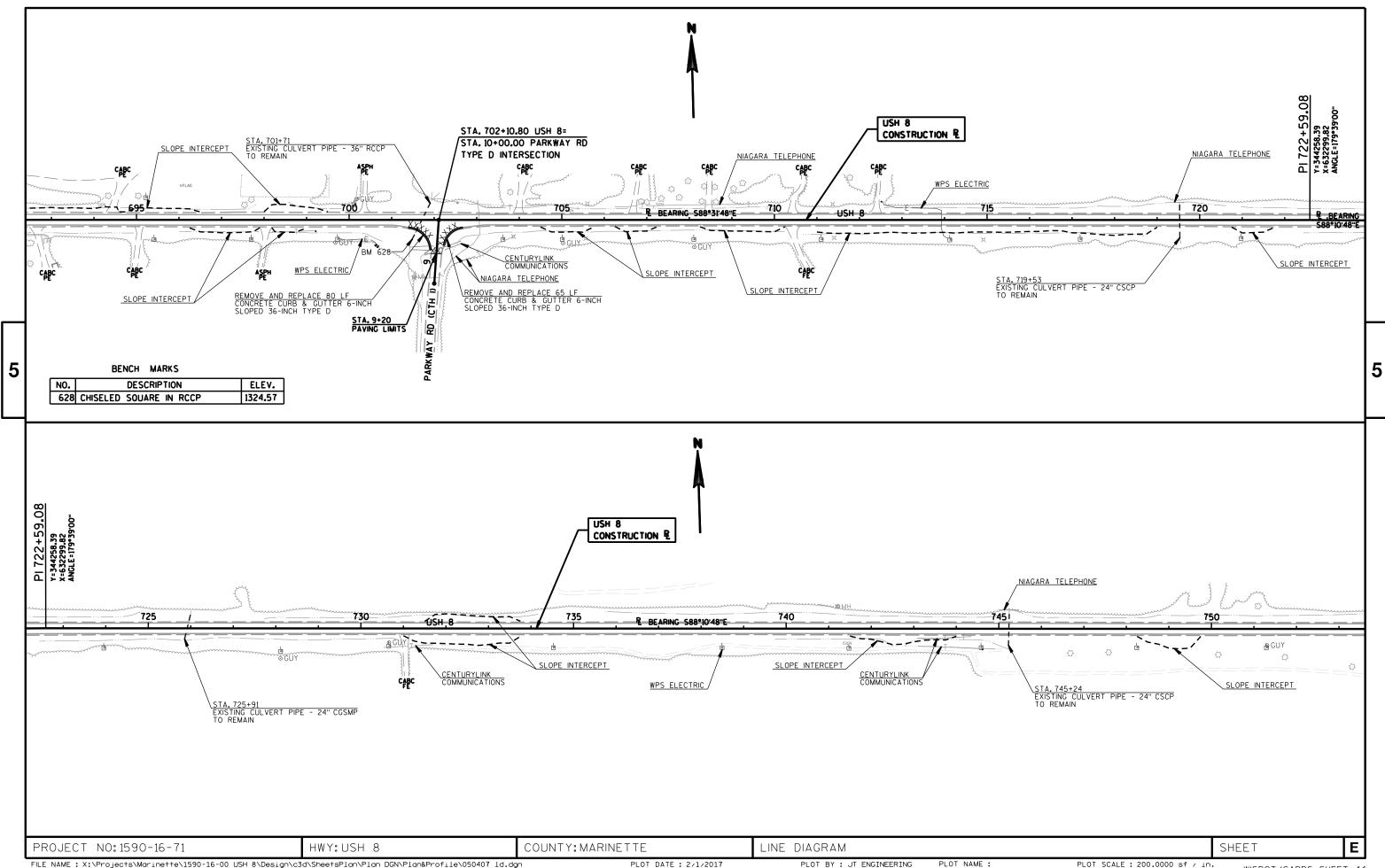


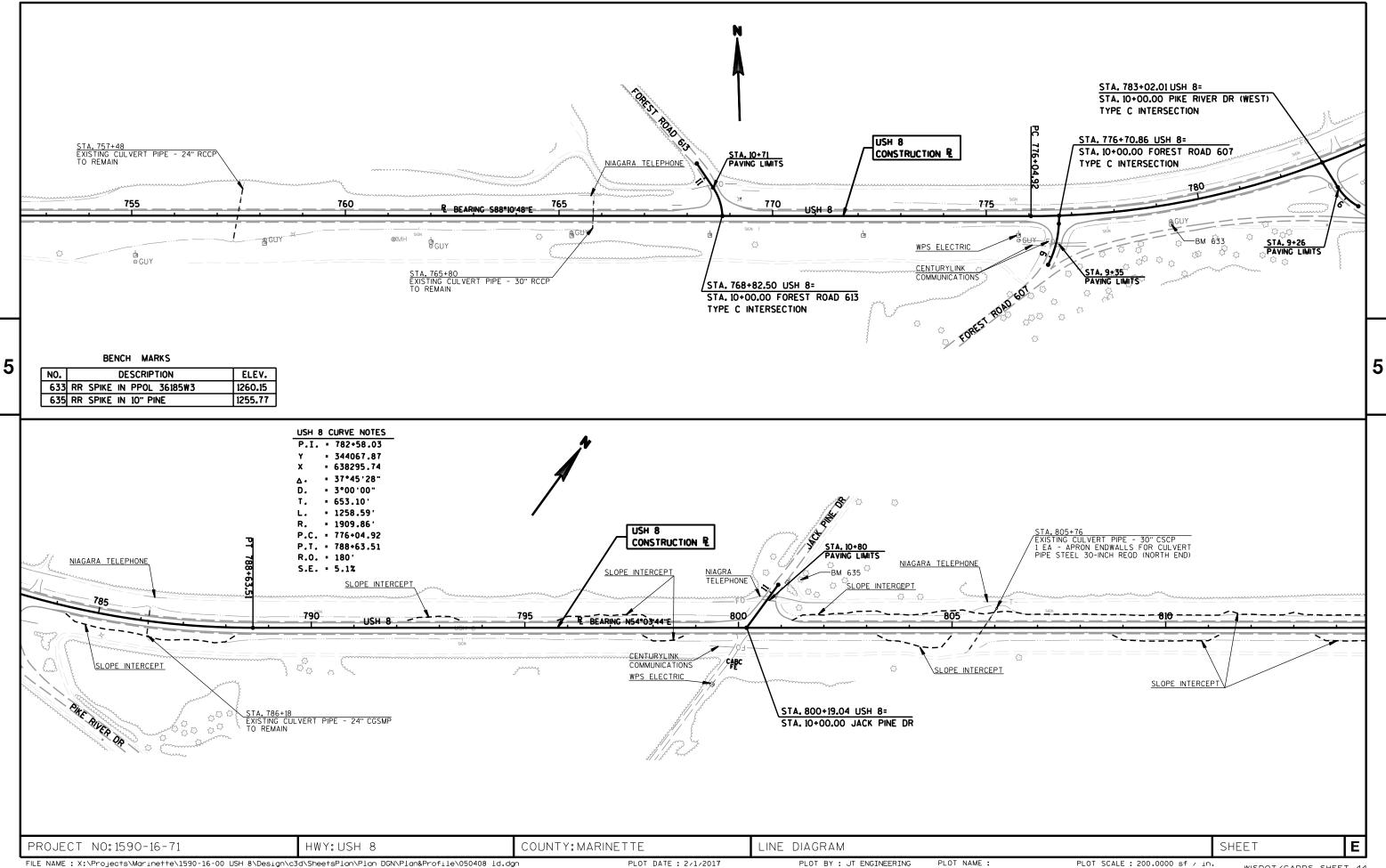


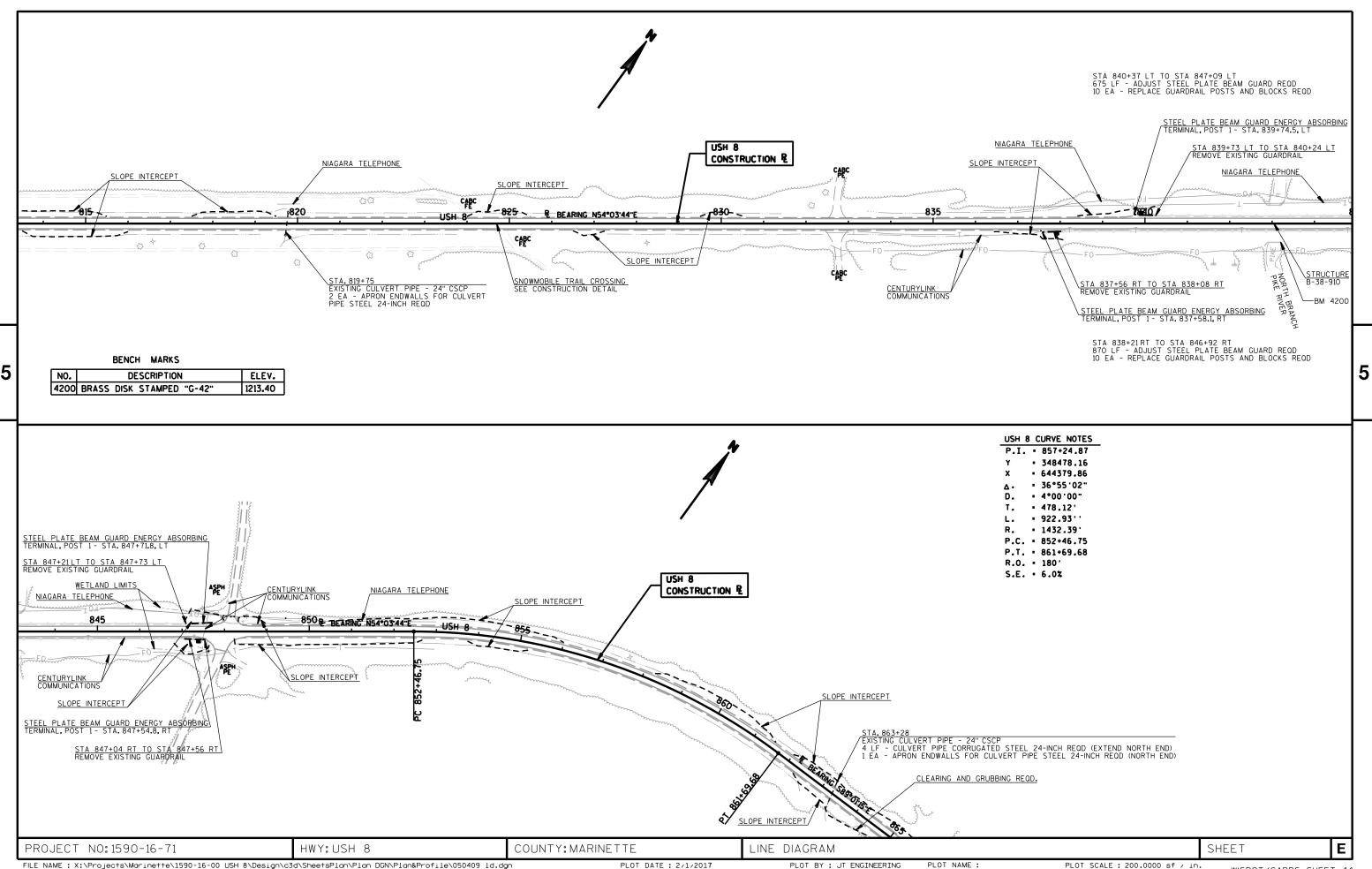


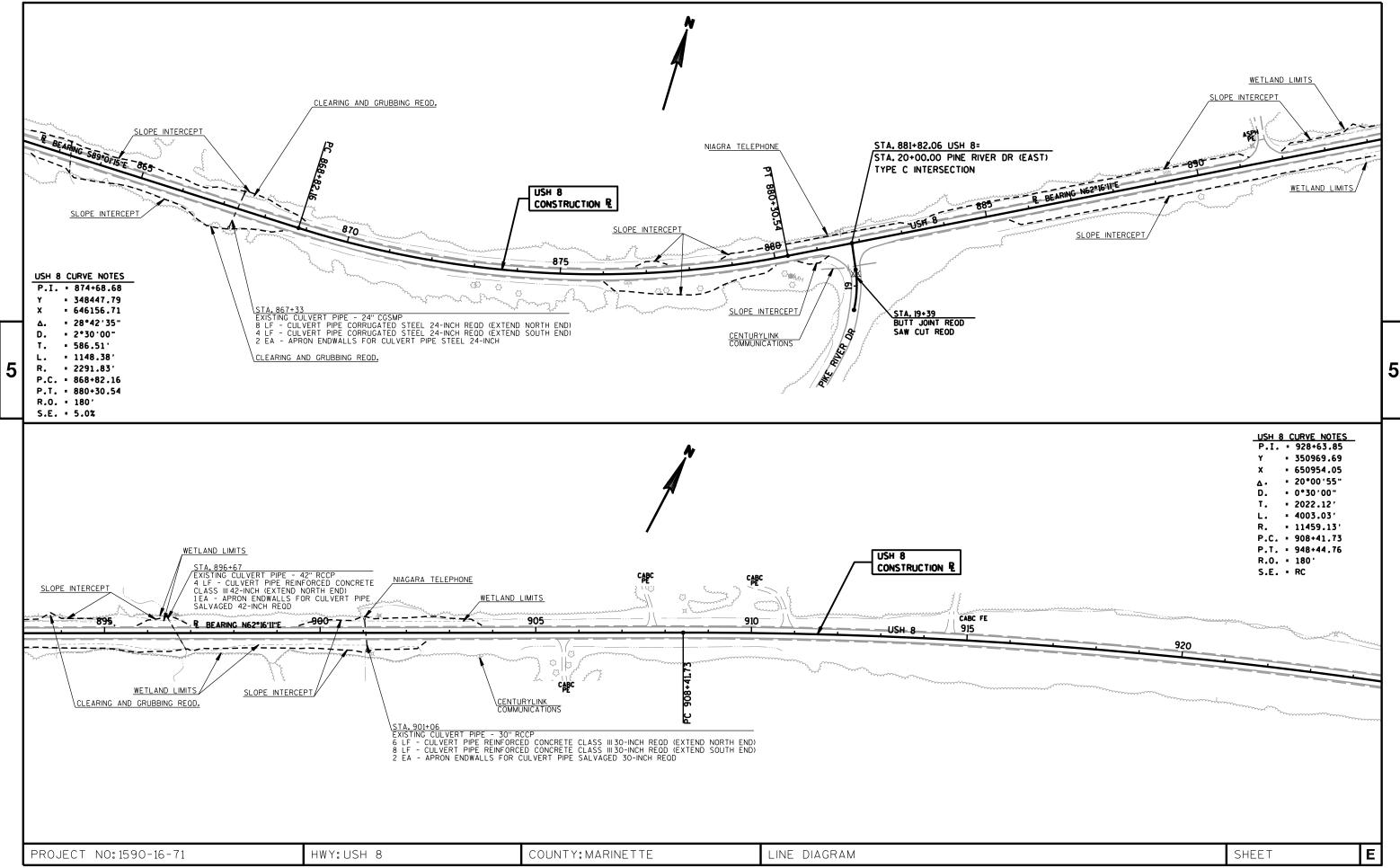


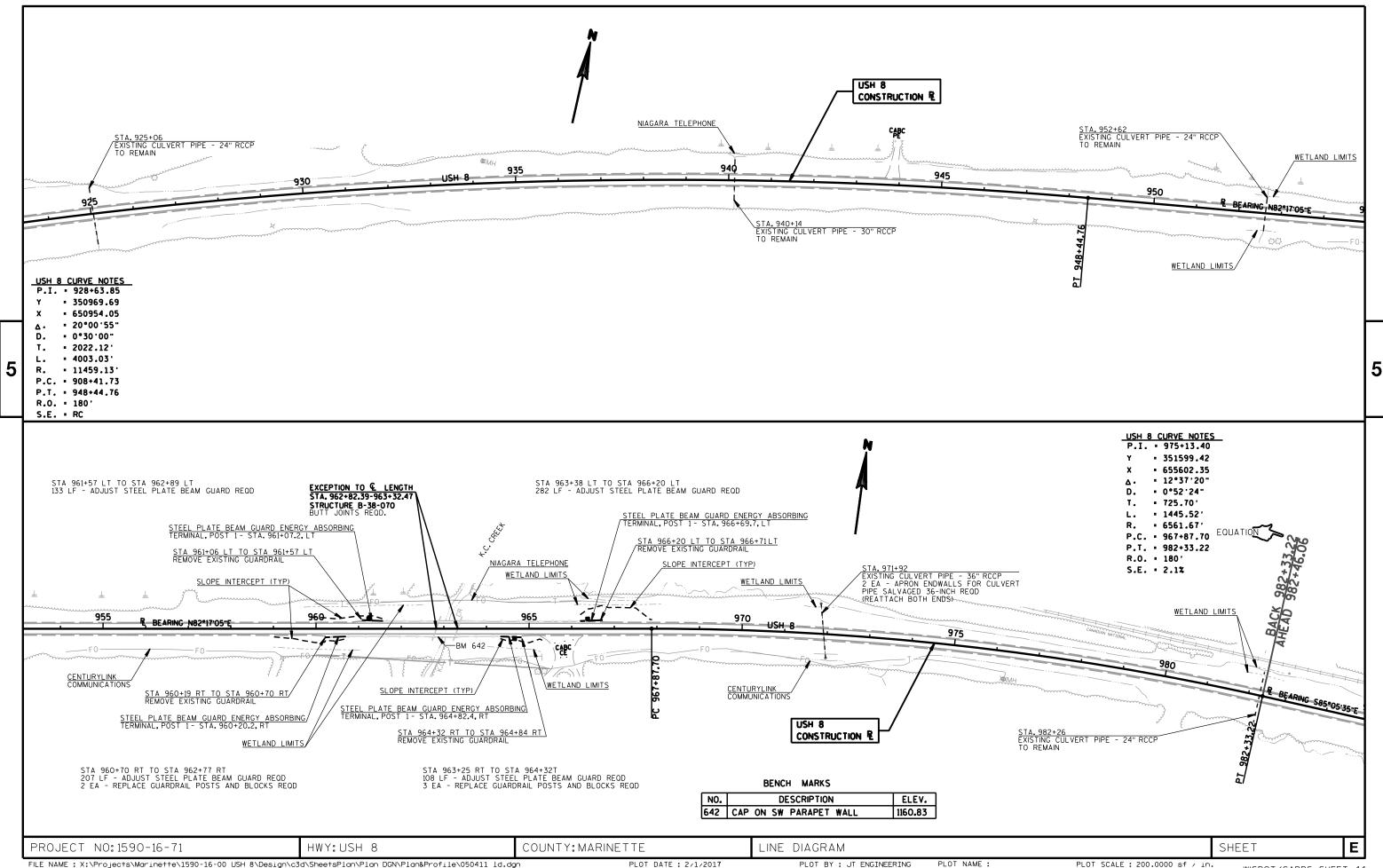


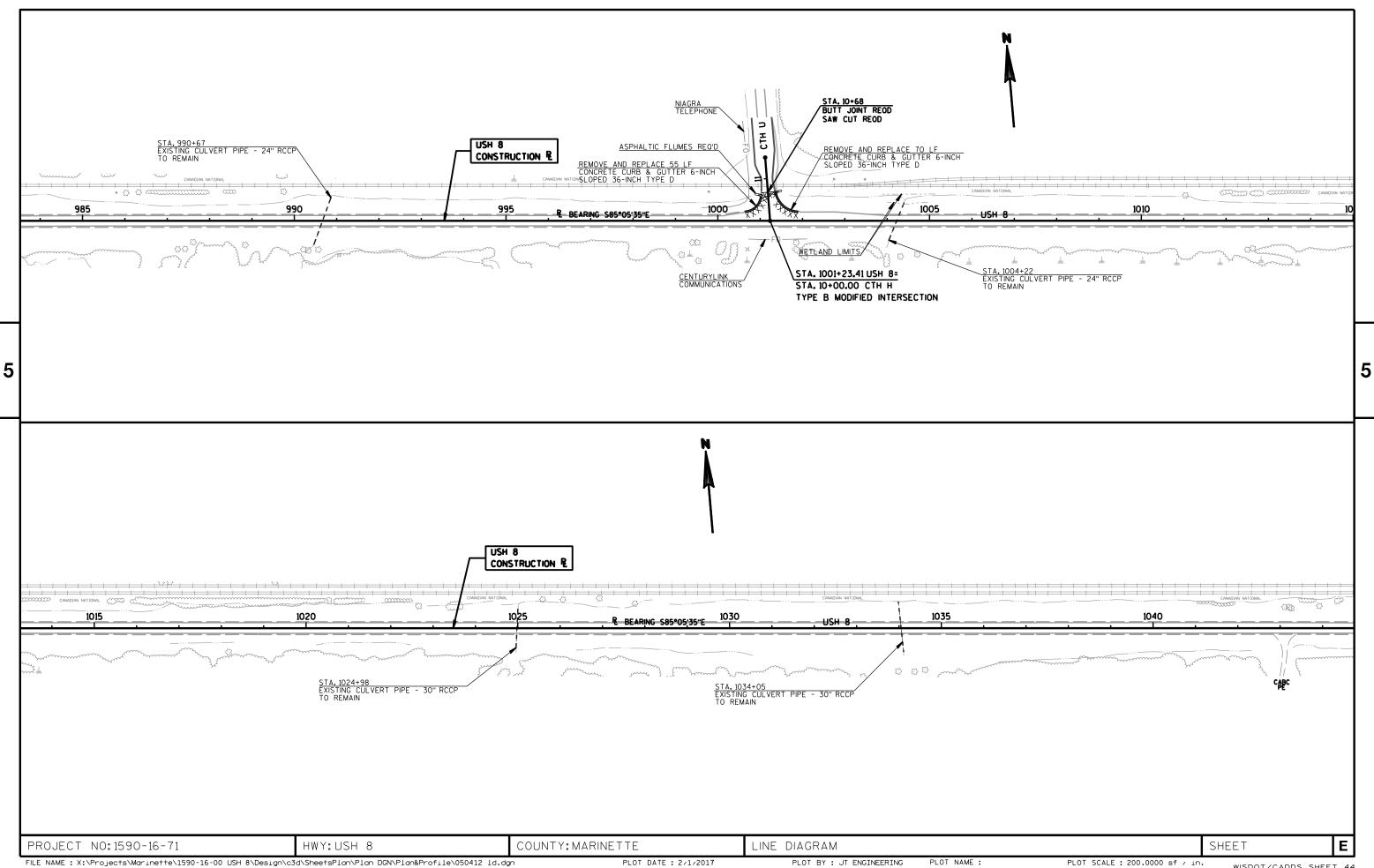


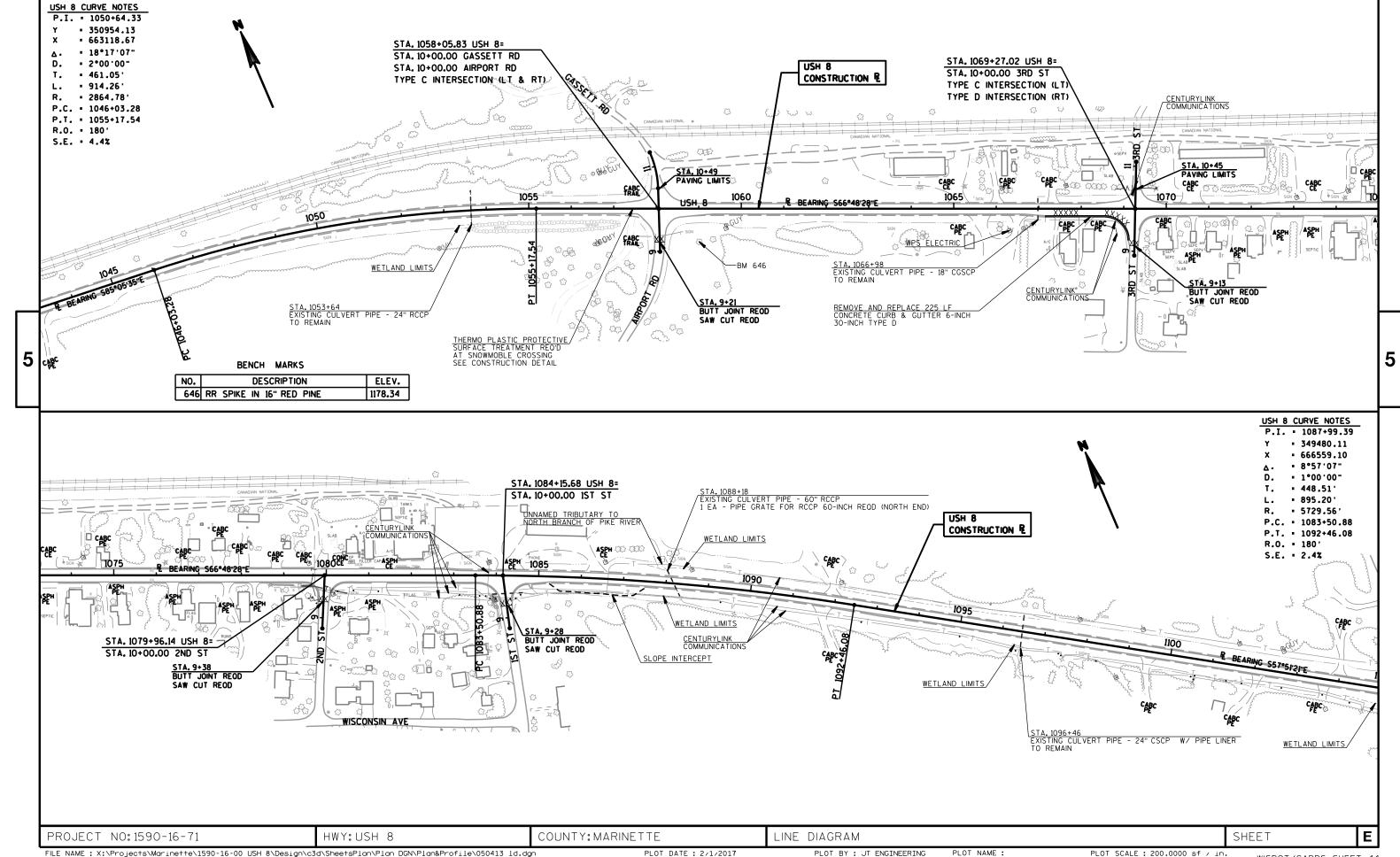


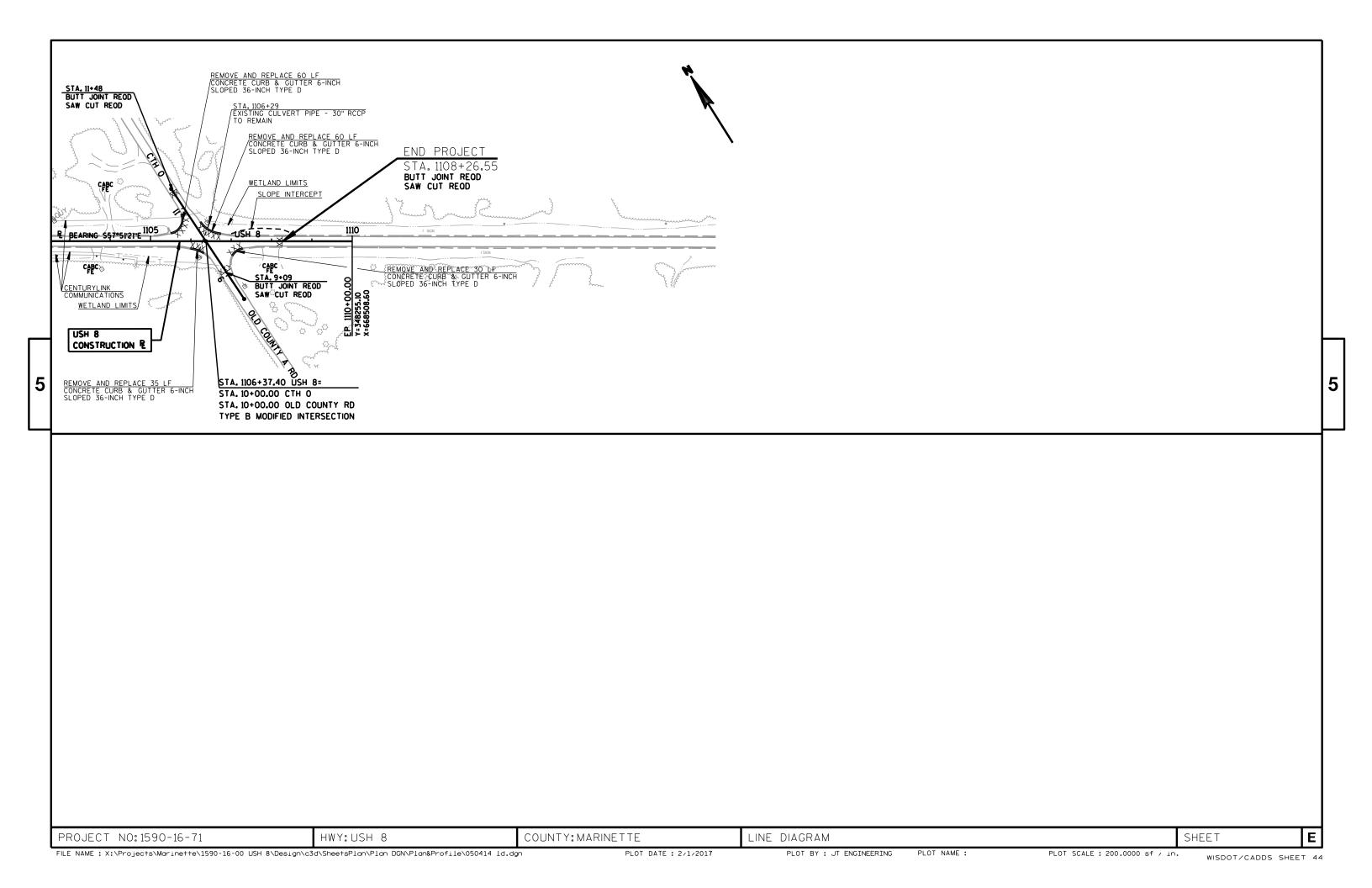






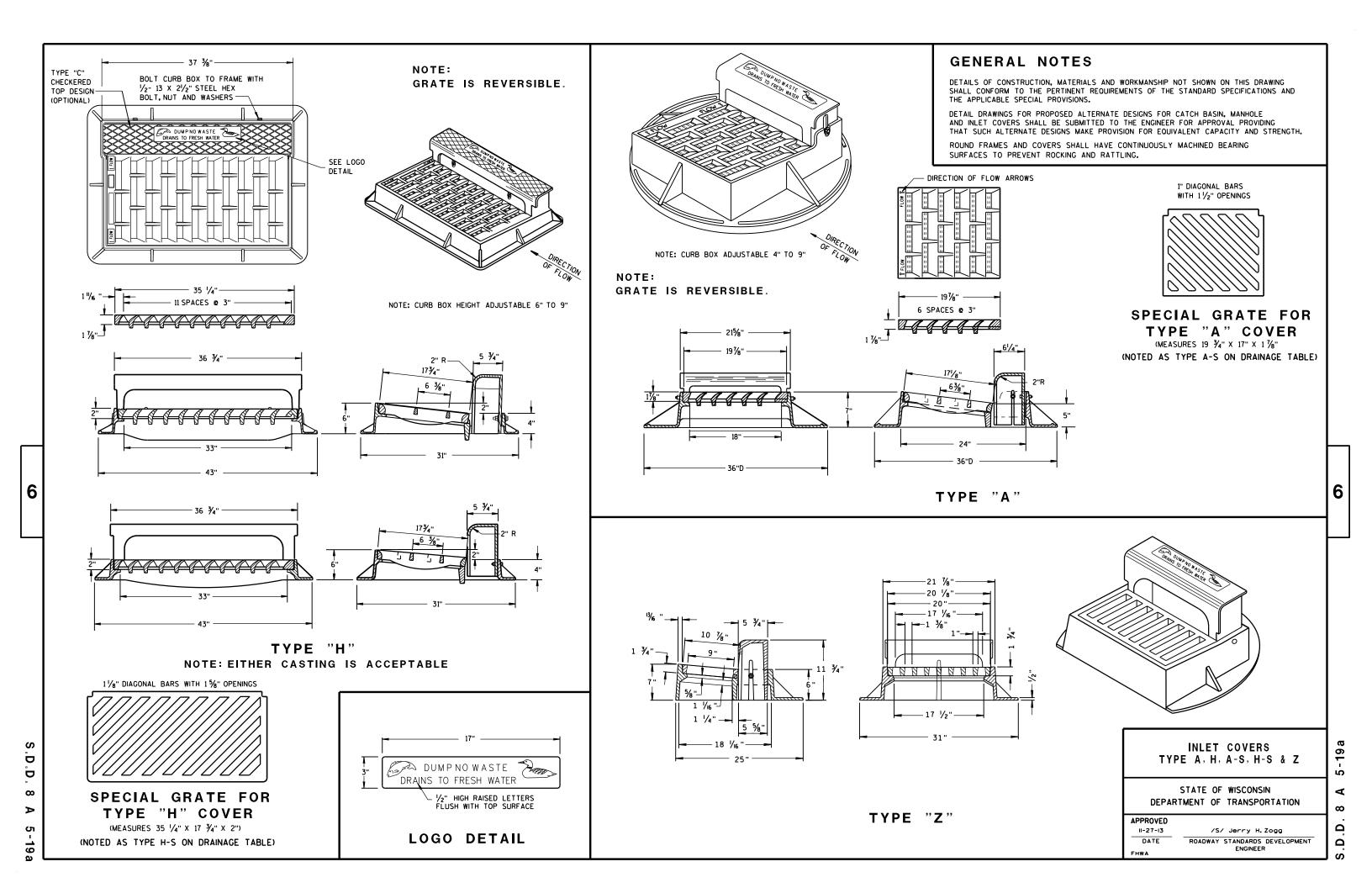


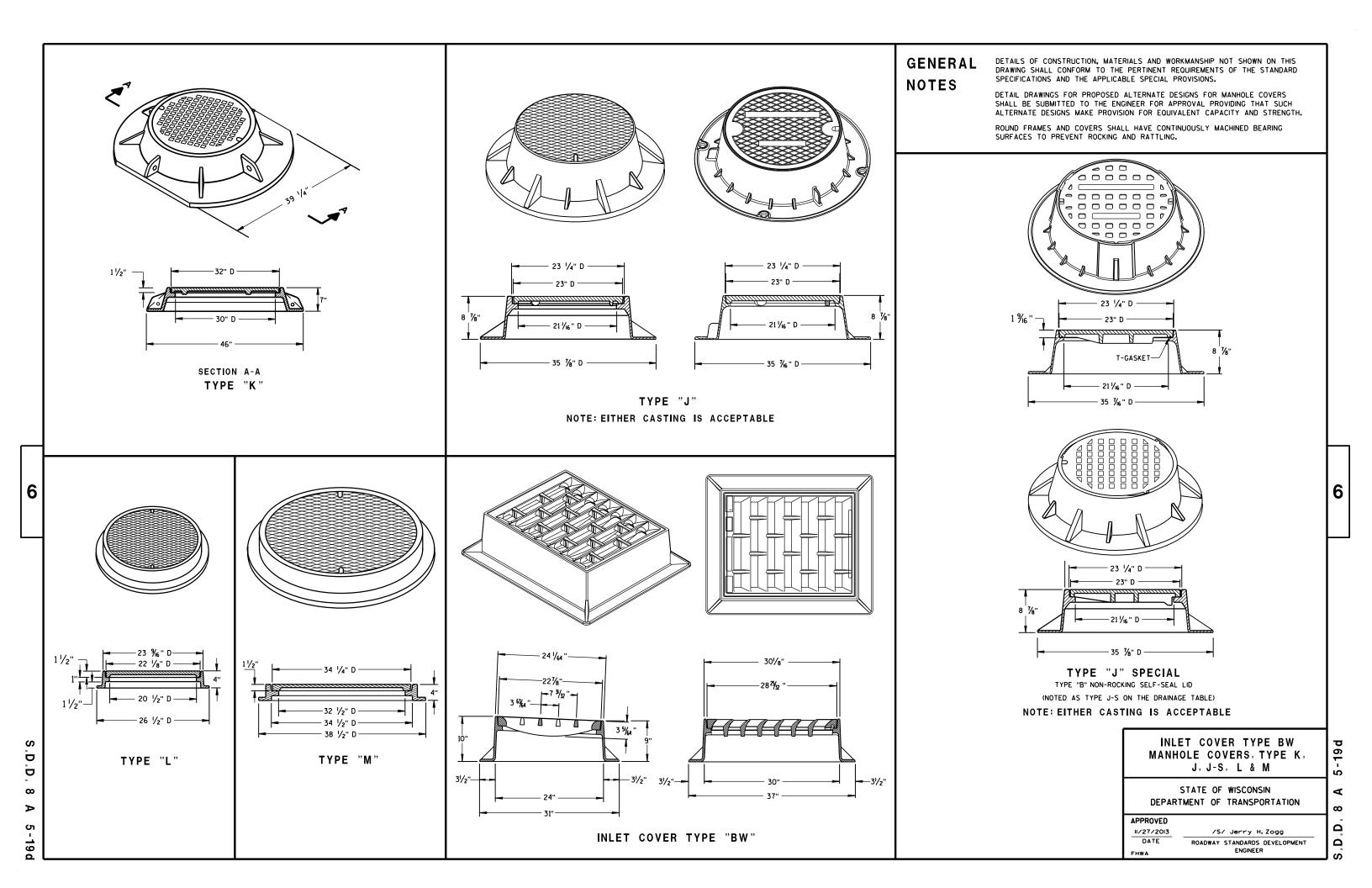




## Standard Detail Drawing List

08A05-19A 08A05-19D 08B09-02 08C06-02 08C07-02 08D01-19 08D04-05	INLET COVERS TYPE A, H, A-S, H-S & Z INLET COVER TYPE BW, MANHOLE COVERS, TYPE K, J, J-S, L & M MANHOLES 3-FT, 4-FT, 5-FT, 6-FT, 7-FT AND 8-FT DIAMETER INLETS 3-FT AND 4-FT DIAMETER INLETS 2X2-FT, 2X2.5-FT, 2X3-FT AND 2.5X3-FT CONCRETE CURB, CONCRETE CURB AND GUTTER AND TIES CONCRETE SURFACE DRAINS & ASPHALTIC FLUMES
08D05-18A	CURB RAMPS TYPES 1 AND 1-A
08D05-18B	CURB RAMPS TYPES 2 AND 3
08D05-18C	CURB RAMPS TYPES 4A AND 4A1
08D05-18D	CURB RAMPS TYPE 4B AND 4B1
08D05-18E	CURB RAMPS TYPES 5, 6, 7A, 7B & 8
08D18-01	DRIVEWAY AND SIDEWALK RAMPS TYPES X & Y
08E08-03	TYPICAL INSTALLATIONS OF EROSION BALES / TEMPORARY DITCH CHECKS
08E09-06 08E10-02	SILT FENCE INLET PROTECTION TYPE A, B, C AND D
08F01-11	APRON ENDWALLS FOR CULVERT PIPE
08F04-07	JOINT TIES FOR CONCRETE PIPE AND CONCRETE COLLAR DETAIL
09A01-13A	AT-GRADE SIDE ROAD INTERSECTION, TYPES "B1", "B2", "C" AND D AND TEE INTERSECTION BYPASS LANE
09A01-13B	AT-GRADE SIDE ROAD INTERSECTION, TYPE "A1" & "A2"
13A10-01A	2-LANE RURAL SHOULDER RUMBLE STRIP, MILLING
13A10-01C	2-LANE RURAL SHOULDER RUMBLE STRIP, MILLING
13A11-02A	2-LANE RURAL CENTER LINE RUMBLE STRIP, MILLING
13A11-02B	2-LANE RURAL CENTER LINE RUMBLE STRIP, MILLING
14B15-09A	STEEL PLATE BEAM GUARD, CLASS "A" INSTALLATION & ELEMENTS
14B15-09B	STEEL PLATE BEAM GUARD, CLASS "A" INSTALLATION & ELEMENTS
14B15-09C	STEEL PLATE BEAM GUARD, CLASS "A", INSTALLATION & ELEMENTS
14B24-08A	STEEL PLATE BEAM GUARD ENERGY ABSORBING TERMINAL
14B24-08B	STEEL PLATE BEAM GUARD ENERGY ABSORBING TERMINAL
14B24-08C	STEEL PLATE BEAM GUARD ENERGY ABSORBING TERMINAL
14B28-03	GUARDRAIL MOW STRIP
15C04-03	TRAFFIC CONTROL, ADVANCE WARNING SIGNS 45 M.P.H. OR GREATER TWO-WAY UNDIVIDED ROAD OPEN TO TRAFFIC
15C08-17A 15C08-17B	LONGITUDINAL MARKING (MAINLINE) PAVEMENT MARKING (TURN LANES)
15C08-17B	TRAFFIC CONTROL FOR LANE CLOSURE WITH FLAGGING OPERATION
15C12-03	MOVING PAVEMENT MARKING OPERATION TWO-LANE TWO-WAY ROADWAY
15C35-01A	PAVEMENT MARKING (INTERSECTIONS)
15D28-03	TRAFFIC CONTROL, WORK ON SHOULDER OR PARKING LANE, UNDIVIDED ROADWAY



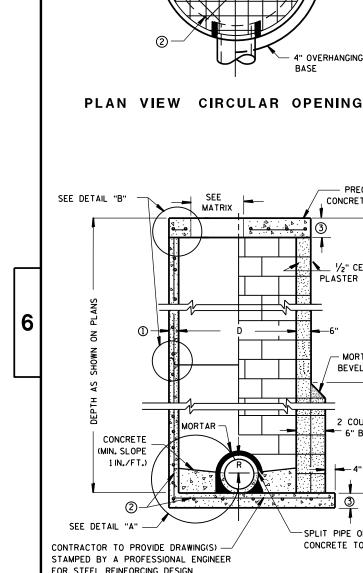


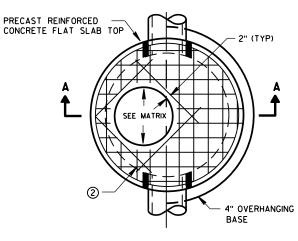


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SEE

MATRIX

SEE \_\_ MATRIX **PRECAST** REINFORCED CONCRETE RISERS

OPTIONAL PRECAST REINFORCED CONCRETE **ECCENTRIC TOP** 

PRECAST

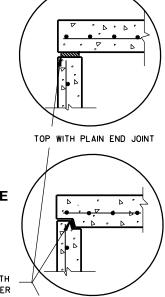
WALL

PRECAST REINFORCED

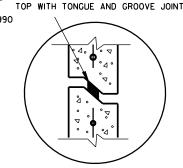
CONCRETE FLAT SLAB TOP

**CONCRETE BASE 2** 

OPTIONAL PRECAST REINFORCED CONCRETE CONCENTRIC TOP

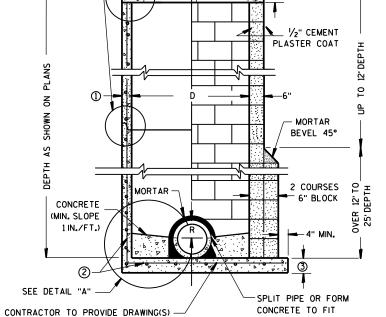


JOINTS TO BE SEALED WITH A BUTYL RUBBER SEAL PER SEALANT MANUFACTURERS RECOMMENDATIONS CONFORMING TO ASTM C990 (TYP)

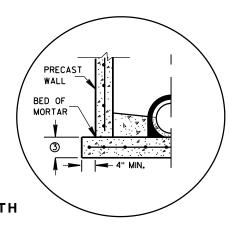


RISER WITH TONGUE AND GROOVE JOINT

DETAIL "B'



FOR STEEL REINFORCING DESIGN FOR CAST-IN-PLACE STRUCTURES PRECAST REINFORCED CONCRETE BLOCK WITH **CONCRETE WITH** CAST-IN-PLACE OR PRECAST REINFORCED MONOLITHIC BASE

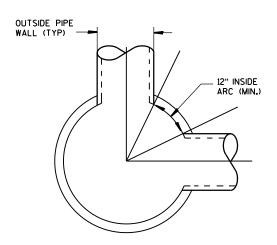


PRECAST REINFORCED

CONCRETE WITH INTEGRAL BASE OPTION

SEPARATE PRECAST REINFORCED CONCRETE BASE OPTION

DETAIL "A"



DETAIL "C"

MANHOLES 3-FT, 4-FT, 5-FT, 6-FT, 7-FT AND 8-FT DIAMETER

#### **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.

UNLESS OTHERWISE AUTHORIZED IN WRITING BY THE ENGINEER. THE CONTRACTOR SHALL NOT ORDER AND DELIVER PRECAST MANHOLE UNITS REQUIRED FOR THE PROJECT UNTIL A LIST OF SIZES IS FURNISHED BY THE ENGINEER.

DETAILED DRAWINGS FOR PROPOSED ALTERNATE DESIGNS FOR UNDERGROUND DRAINAGE STRUCTURES SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PROVIDING THAT SUCH ALTERNATE DESIGNS MAKE PROVISION FOR EQUIVALENT CAPACITY AND STRENGTH.

ALL DRAINAGE STRUCTURES ARE DESIGNATED ON THE PLANS AS "MANHOLES 3X3-L", "CATCH BASINS 4-B", "INLETS 2X3-H", ETC. THE FIRST NUMBERS DESIGNATE THE SIZE OF THE STRUCTURE, AND THE FOLLOWING LETTER DESIGNATES THE TYPE OF COVER TO BE USED TO COMPRISE THE COMPLETE UNIT.

BASES SHALL BE PLACED ON A BED OF MATERIAL AT LEAST 6 INCHES IN DEPTH, WHICH MEETS THE REQUIREMENTS OF FOUNDATION BACKFILL. THIS BEDDING SHALL BE COMPACTED AND PROVIDE UNIFORM SUPPORT FOR THE ENTIRE AREA OF THE BASE.

PRECAST REINFORCED CONE TOPS (ECCENTRIC OR CONCENTRIC) OR PRECAST REINFORCED FLAT SLAB TOPS MAY BE USED ON CONCRETE BLOCK STRUCTURES.

ECCENTRIC CONE TOPS MAY BE USED ON ALL STRUCTURES, AND CONCENTRIC CONE TOPS SHALL BE USED ONLY ON STRUCTURES 5 FEET OR LESS IN DEPTH, UNLESS OTHERWISE DIRECTED BY THE ENGINEER.

STEPS MEETING AASHTO M199 AND THE FOLLOWING REQUIREMENTS SHALL BE INSTALLED IN ALL STRUCTURES OVER 5 FEET IN DEPTH: 16 INCH C-C MAXIMUM SPACING; PROJECT A MINIMUM CLEAR DISTANCE OF 4 INCHES FROM THE WALL AT THE POINT OF EMBEDMENT; MINIMUM LENGTH OF 10 INCHES; MINIMUM WALL EMBEDMENT OF 3 INCHES, FERROUS METAL STEPS NOT PAINTED OR TREATED TO RESIST CORROSION SHALL HAVE A MINIMUM CROSS SECTIONAL DIMENSION OF 1 INCH.

STEPS OF APPROVED POLYPROPYLENE PLASTIC COATED REINFORCEMENT BAR ARE ACCEPTABLE. REINFORCING BAR MUST BE A MINIMUM OF 1/2" AND MEET THE REQUIREMENTS OF ASTM A615.

CERTIFICATION SHALL BE PROVIDED THAT INSTALLED STEPS WHEN TESTED IN ACCORDANCE WITH SECTION 10 OF AASHTO T280 CAN WITHSTAND A VERTICAL LOAD OF 800 LBS. AND A HORIZONTAL LOAD OF 400 LBS.

ALL BAR STEEL REINFORCEMENT SHALL BE EMBEDDED 2 INCHES CLEAR UNLESS OTHERWISE SHOWN OR NOTED.

CONCRETE BLOCK WILL NOT BE PERMITED FOR STRUCTURES GREATER THAN 4 FEET IN DIAMETER.

PRECAST REINFORCED RISERS SHALL HAVE A TONGUE AND GROOVE JOINT WITH TONGUE UP OR DOWN.

ALL PRECAST MANHOLE UNITS SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF AASHTO DESIGNATION M 199.

4" OVERHANGING BASES ARE REQUIRED FOR ALL CONCRETE BLOCK INSTALLATIONS. 4" OVERHANG IS REQUIRED WHEN SEPARATE PRECAST BASE IS PROVIDED. OVERHANG IS NOT REQUIRED ON PRECAST STRUCTURES WITH AN INTEGRAL OR MONOLITHIC BASE.

FOR ADDITIONAL CONFIGURATIONS, MAINTAIN A MINIMUM OF 12 INCHES AS MEASURED FROM THE INSIDE OF THE STRUCTURE WALL BETWEEN THE OUTSIDE PIPE WALLS OF ADJACENT PIPES. SEE DETAIL "C".

- MINIMUM WALL THICKNESS SHALL BE 4 INCHES FOR 3-FT, 5 INCHES FOR 4-FT. 6 INCHES FOR 5-FT, 7 INCHES O MINIMUM WALL IHICKNESS SHALL DE 4 INCHES FOR 8-FT DIAMETER PRECAST MANHOLES.
- (2) FOR PRECAST MANHOLES PROVIDE REINFORCING STEEL IN ACCORDANCE TO AASHTO M199.
- (3) PRECAST FLAT SLAB TOPS AND BASES WITH A DIAMETER OF 48" AND LESS SHALL HAVE A MINIMUM THICKNESS OF 6". PRECAST FLAT SLAB TOPS AND BASES WITH A DIAMETER LARGER THAN 48" SHALL HAVE A MINIMUM THICKNESS

#### MANHOLE COVER OPENING MATRIX

ĺ	MANHOLE COVER TYPE	С	ALL J'S	K	L	М
	OPENING SIZE (FT)					
	2 DIA.	×	х		Х	
ı	3 DIA.			Х		Х

#### PIPE MATRIX

MANHOLE	MAXIMUM INSIDE PIPE DIAMETER FOR TWO PIPES							
SIZE	180° SEPARATION (IN)	90° SEPARATION (IN)						
3-FT	15	12						
4-FT	24	18						
5-FT	36	24						
6-FT	42	36						
7-FT	48	36						
8-FT	60	42						

MANHOLES 3-FT, 4-FT, 5-FT, 6-FT 7-FT AND 8-FT DIAMETER

> STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

PPROVED	
Sept., 2016	/S/ Rodney Taylo
DATE	ROADWAY STANDARDS DEVE
	UNIT SUPERVISOR

ELOPMENT

CIRCULAR INLETS W/ FLAT TOP

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SEPARATE PRECAST REINFORCED CONCRETE BASE OPTION

RISER WITH TONGUE AND GROOVE JOINT

DETAIL "B" DETAIL "A"

### INLETS 3-FT AND 4-FT DIAMETER

#### **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.

UNLESS OTHERWISE AUTHORIZED IN WRITING BY THE ENGINEER, THE CONTRACTOR SHALL NOT ORDER AND DELIVER PRECAST INLET UNITS REQUIRED FOR THE PROJECT UNTIL A LIST OF SIZES IS FURNISHED BY THE ENGINEER.

DETAILED DRAWINGS FOR PROPOSED ALTERNATE DESIGNS FOR UNDERGROUND DRAINAGE STRUCTURES SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PROVIDING THAT SUCH ALTERNATE DESIGNS MAKE PROVISION FOR EQUIVALENT CAPACITY AND STRENGTH.

ALL DRAINAGE STRUCTURES ARE DESIGNATED ON THE PLANS AS "MANHOLES 3X3-L", "CATCH BASINS 4-B", "INLETS 2X3-H", ETC. THE FIRST NUMBERS DESIGNATE THE SIZE OF THE STRUCTURE, AND THE FOLLOWING LETTER DESIGNATES THE TYPE OF COVER TO BE USED TO COMPRISE THE COMPLETE UNIT.

BASES SHALL BE PLACED ON A BED OF MATERIAL AT LEAST 6 INCHES IN DEPTH, WHICH MEETS THE REQUIREMENTS OF FOUNDATION BACKFILL. THIS BEDDING SHALL BE COMPACTED AND PROVIDE UNIFORM SUPPORT FOR THE ENTIRE AREA OF THE BASE.

ALL BAR STEEL REINFORCEMENT SHALL BE EMBEDDED 2 INCHES CLEAR UNLESS OTHERWISE SHOWN OR NOTED.

ALL PRECAST INLET UNITS SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF AASHTO DESIGNATION M199.

PRECAST REINFORCED RISERS SHALL HAVE A TONGUE AND GROOVE JOINT WITH TONGUE UP OR DOWN.

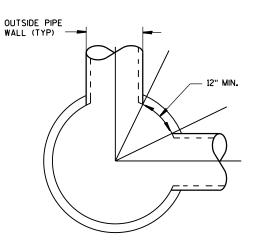
4" OVERHANGING BASES ARE REQUIRED FOR ALL CONCRETE BLOCK INSTALLATIONS. 4" OVERHANG IS REQUIRED WHEN SEPARATE PRECAST BASE IS PROVIDED. OVERHANG IS NOT REQUIRED ON PRECAST STRUCTURES WITH AN INTEGRAL OR MONOLITHIC BASE.

FOR ADDITIONAL CONFIGURATIONS, MAINTAIN A MINIMUM OF 12 INCHES AS MEASURED FROM THE INSIDE OF THE STRUCTURE WALL BETWEEN THE OUTSIDE PIPE WALLS OF ADJACENT PIPES. SEE DETAIL "C".

- (1) MINIMUM WALL THICKNESS SHALL BE 4-IN FOR 3-FT DIAMETER AND 5-IN FOR 4-FT DIAMETER PRECAST INLETS.
- 2 FOR PRECAST CATCH BASINS PROVIDE REINFORCING STEEL IN ACCORDANCE TO AASHTO M199.

#### INLET COVER OPENING MATRIX

	INLET COVER TYPE	ALL A'S	ALL B'S	BW	С	F	ALL H'S	S	Т	٧	WM	Z
INLET SIZE	OPENING SIZE (FT)											
3-FT	2 DIA.				×							х
	2X2	х	х					Х		Х		
4-FT	2 DIA.				х							х
	2X2	х	х					х		Х		
	2X2.5			Х				х	х	Х	х	
	2X3						х					
	2.5X3					х						



DETAIL "C"

#### PIPE MATRIX

	INLET	MAXIMUM INSIDE PIPE DIAMETER FOR TWO PIPES								
١	SIZE	180° SEPARATION (IN)	90° SEPARATION (IN)							
	3-FT	15	12							
	4-FT	24	18							

INLETS 3-FT AND 4-FT DIAMETER

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

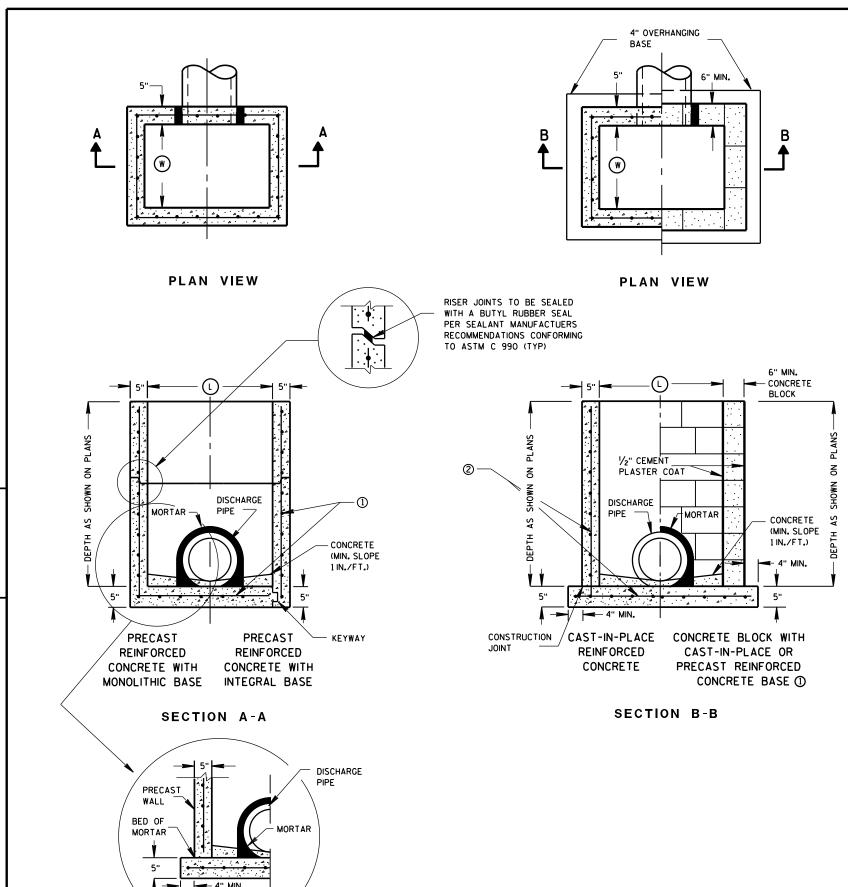
APPROVED

Sept., 2016 /S/ Rodney Taylor DATE ROADWAY STANDARDS DEVELOPMENT UNIT SUPERVISOR

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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.

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ALL PRECAST INLET UNITS SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF ASTM C 913.

ALL DRAINAGE STRUCTURES ARE DESIGNATED ON THE PLANS AS "MANHOLES 3X3-L", "CATCH BASINS 4-B", "INLETS 2X3-H", ETC. THE FIRST NUMBERS DESIGNATES THE SIZE OF THE STRUCTURE, AND THE FOLLOWING LETTER DESIGNATES THE TYPE OF COVER TO BE USED TO COMPRISE THE COMPLETE UNIT.

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PRECAST REINFORCED RISERS SHALL HAVE A TONGUE AND GROOVE JOINT WITH TONGUE UP OR DOWN.

4" OVERHANGING BASES ARE REQUIRED FOR CAST-IN-PLACE REINFORCED CONCRETE AND CONCRETE BLOCK INSTALLATIONS.
4" OVERHANG IS REQUIRED WHEN SEPARATE PRECAST BASE IS PROVIDED.

OVERHANG IS NOT REQUIRED ON PRECAST STRUCTURES WITH AN INTEGRAL OR MONOLITHIC BASE.

MAXIMUM INSIDE PIPE DIAMETER DETERMINED BY 3 INCH CLEARANCE ON EACH SIDE OF THE OUTSIDE WALL OF THE PIPE. SEE DETAIL "A". ASSUMES PIPE ENTERS PERPENDICULAR TO THE STRUCTURE.

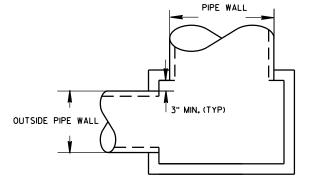
- ① FOR PRECAST INLETS PROVIDE REINFORCING STEEL IN ACCORDANCE TO ASTM C 913.
- ② CONTRACTOR TO PROVIDE DRAWING(S) STAMPED BY A PROFESSIONAL ENGINEER FOR STEEL REINFORCING DESIGN FOR CAST-IN-PLACE STRUCTURES.

#### INLET COVER MATRIX

INLET SIZE		INLET COVER TYPE	ALL A'S	ALL B'S	BW	F	ALL H'S	S	Т	٧	WM
	WIDTH (V) (FT)	LENGTH (L) (FT)									
2X2-FT	2	2	Х	Х				Х		х	
2X2.5-FT	2	2.5			Х			Х	Х	Х	Х
2X3-FT	2	3					Х				
2.5X3-FT	2.5	3				Х					

#### PIPE MATRIX

	MAXIMUM INSIDE PIPE DIAMETER									
INLET SIZE	WIDTH (IN)	LENGTH (IN)								
2X2-FT	12	12								
2X2.5-FT	12	18								
2X3-FT	12	24								
2.5X3-FT	18	24								



DETAIL "A"

OUTSIDE

INLETS 2X2-FT, 2X2.5-FT, 2X3-FT AND 2.5X3-FT

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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APPROVED

Sept., 2016

DATE

ROADWAY STANDARDS DEVELOPMENT

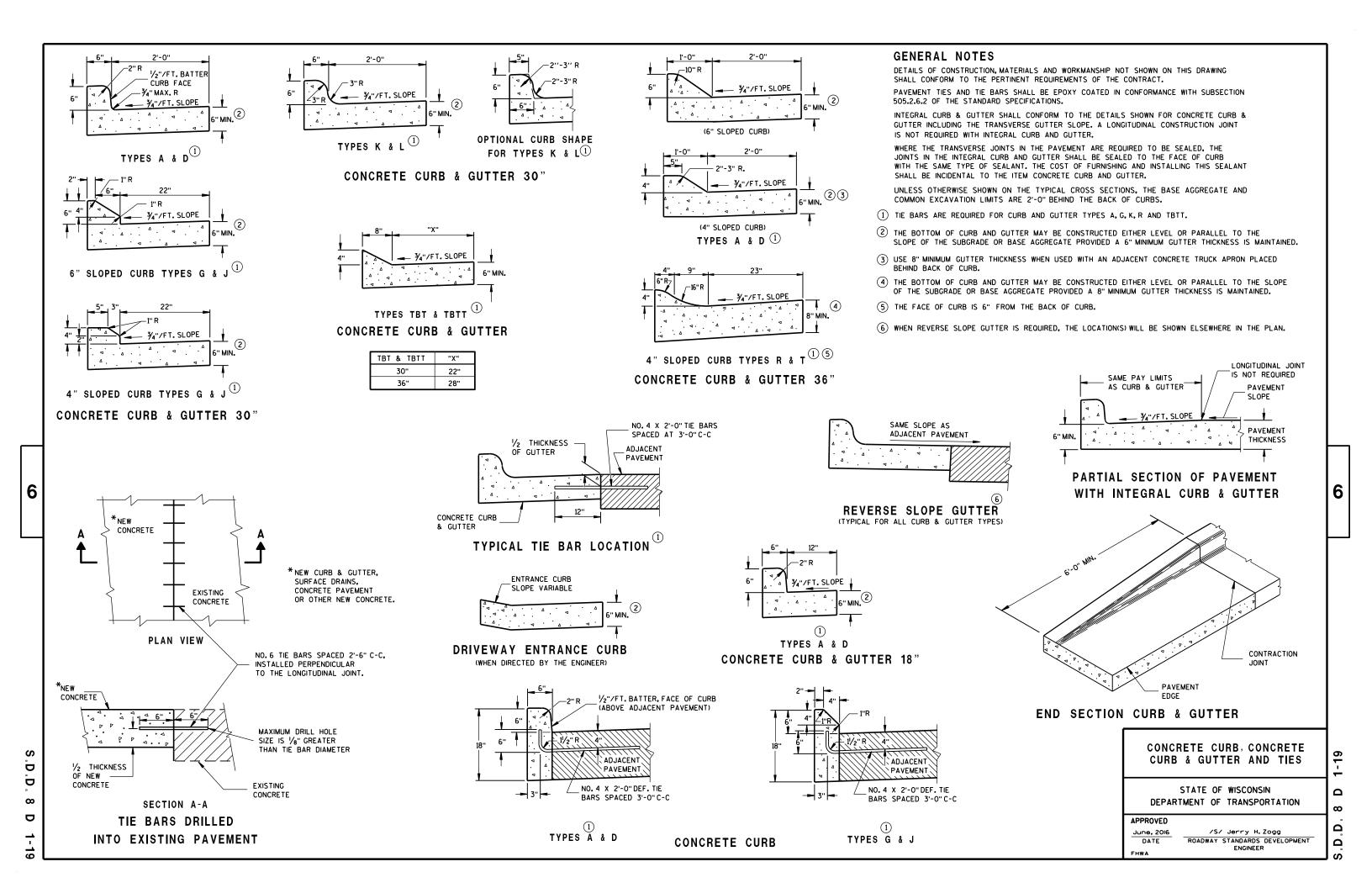
UNIT SUPERVISOR

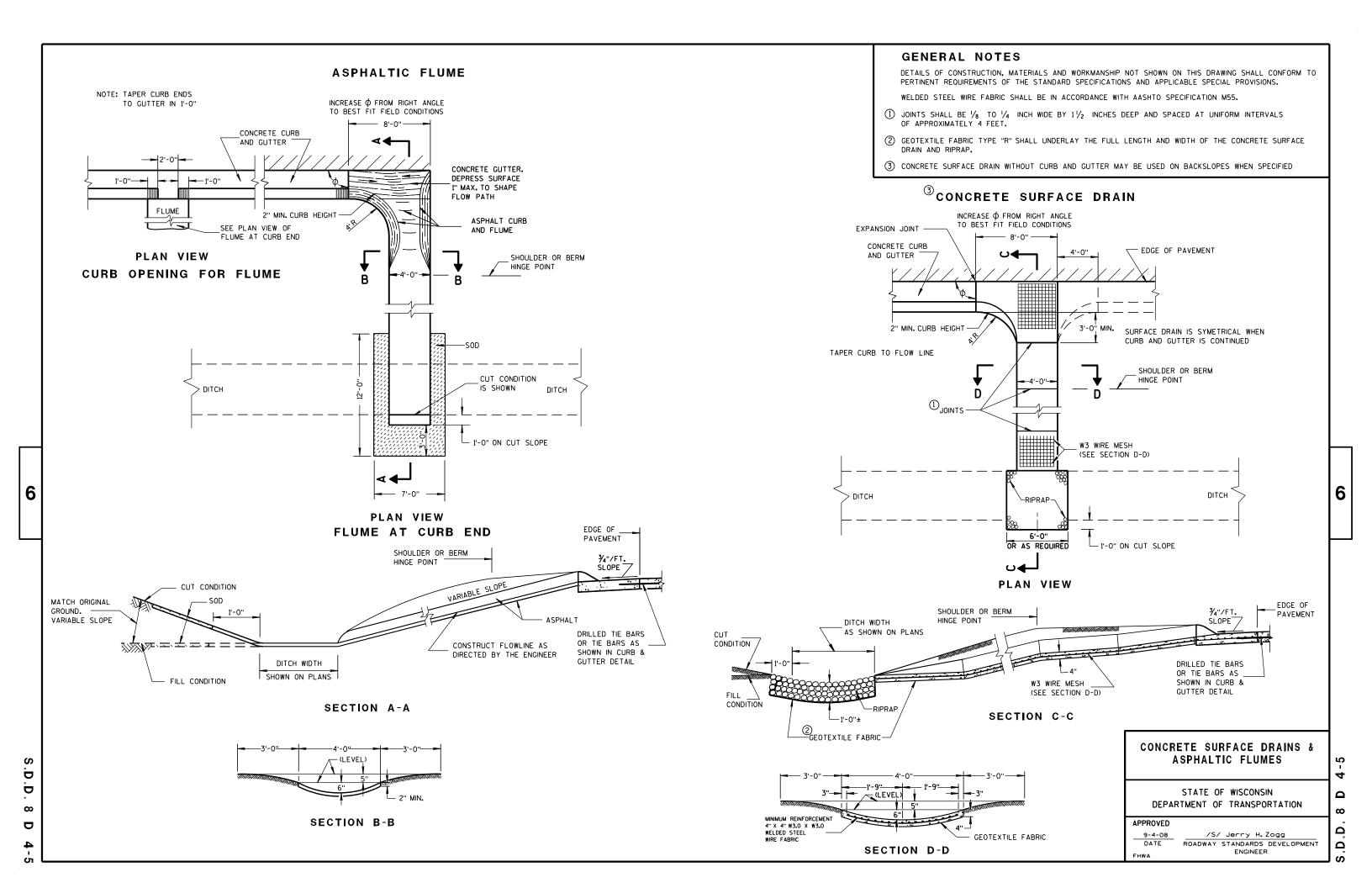
INLETS 2X2-FT, 2X2.5-FT, 2X3-FT AND 2.5X3-FT

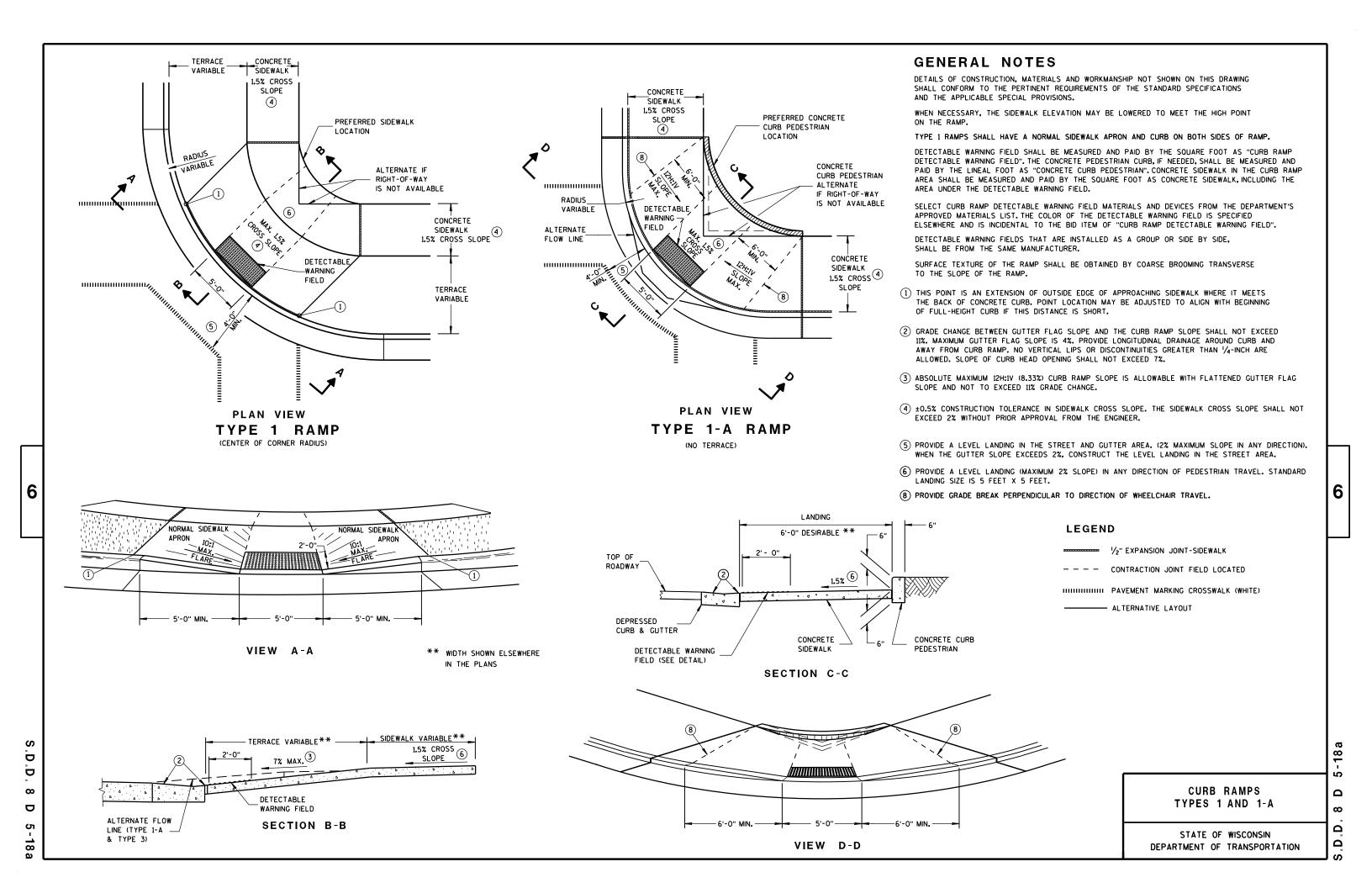
S.D.D. 8 C

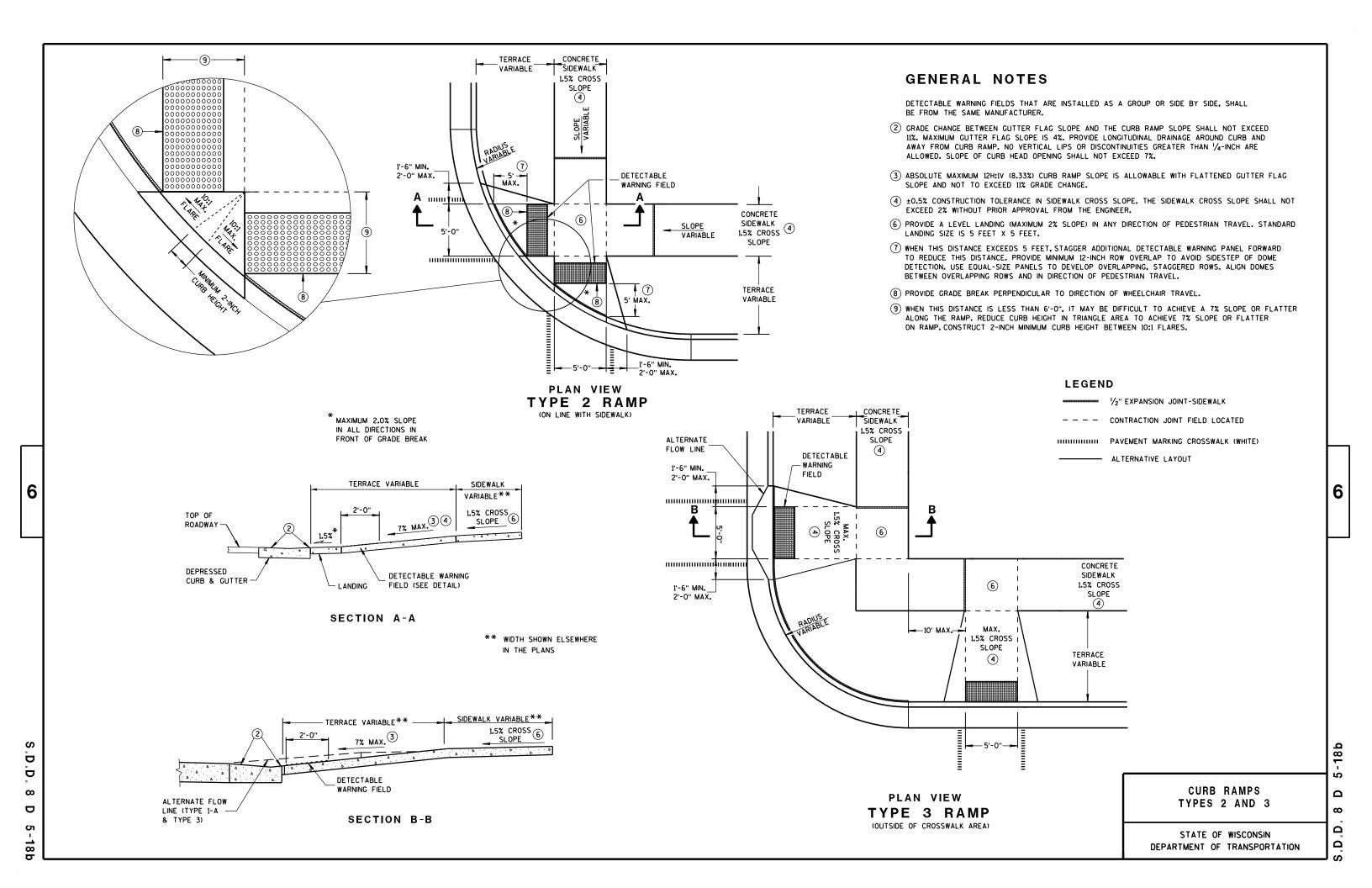
SEPARATE PRECAST REINFORCED

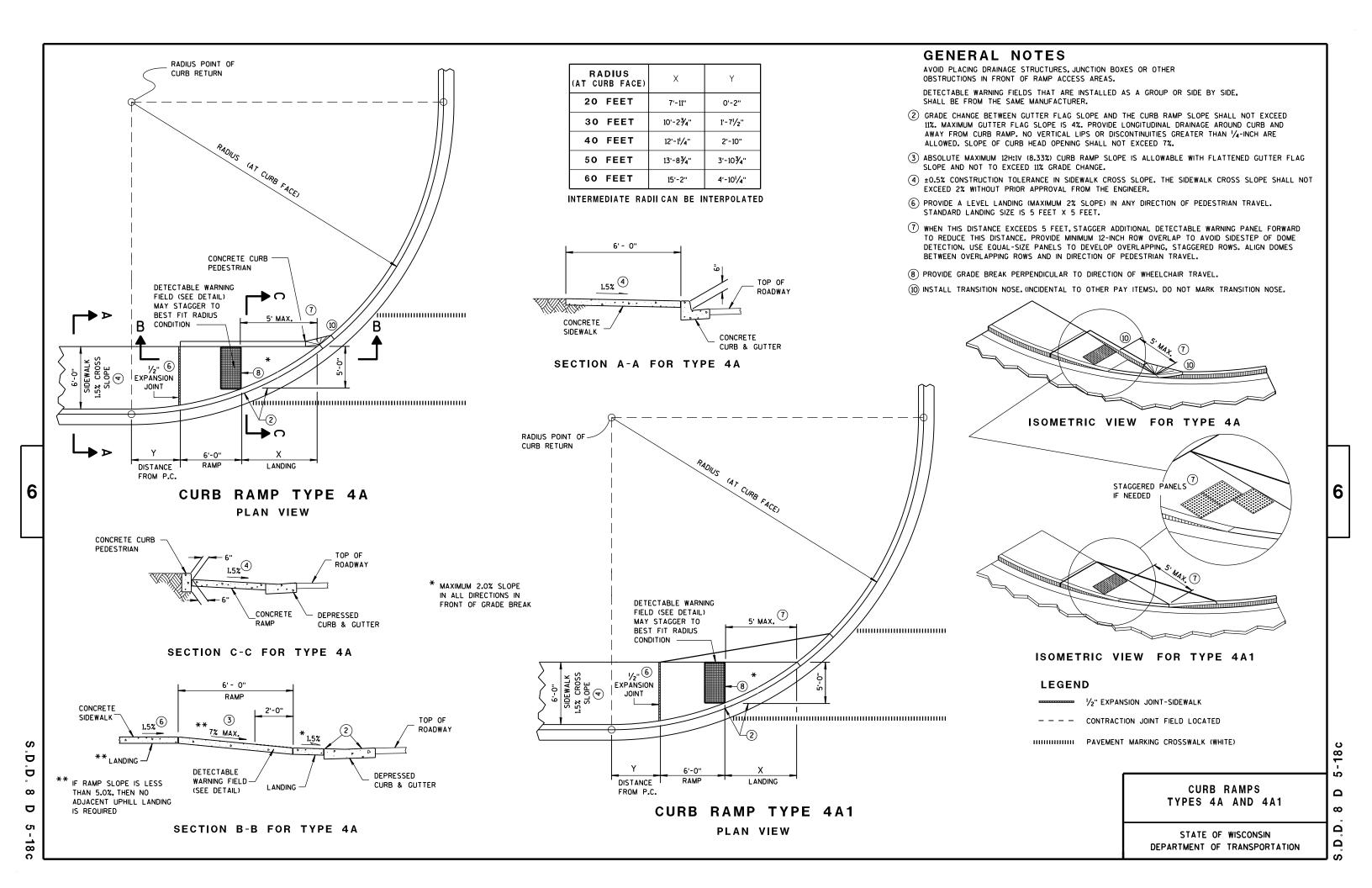
**CONCRETE BASE OPTION** 

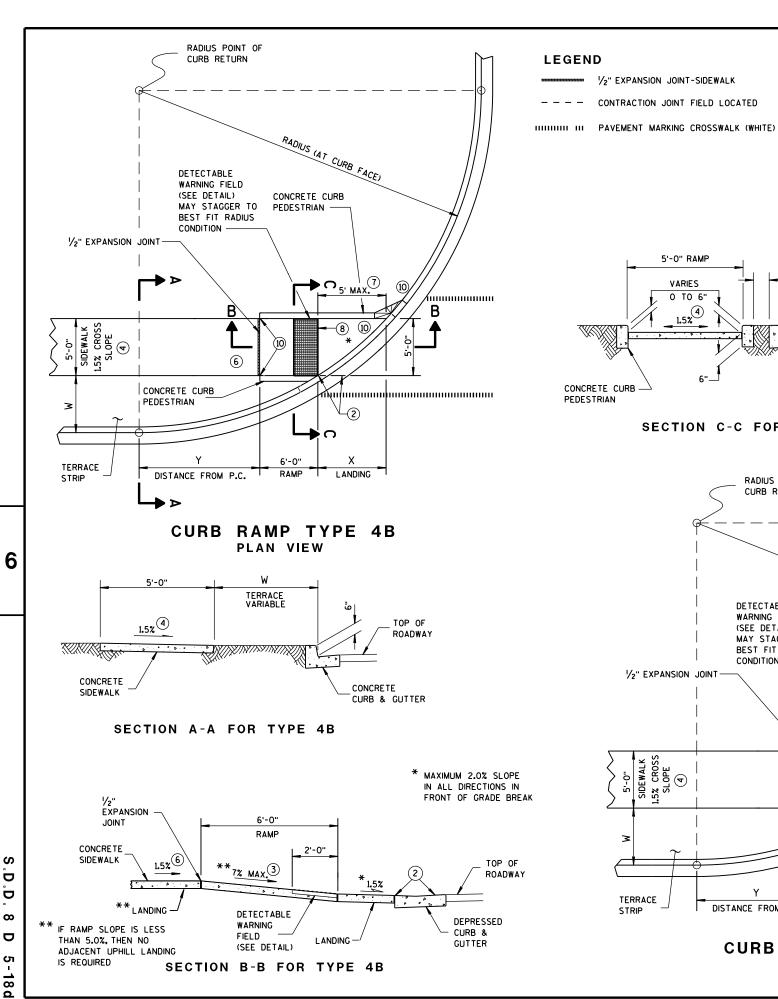












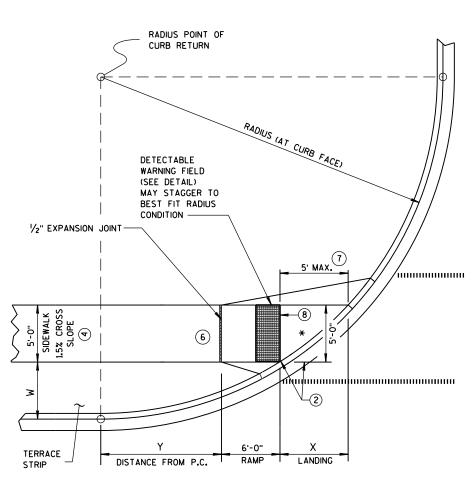
#### W = 5' - Ø" 7' - Ø" 3' - Ø" W = 4' - Ø" W = 6' - 0"RADIUS AT CURB FACE 20 FEET 3'-8¾" 7'-6¾" 3'-61/2" 4'-111/2" 6'-51/2" 8'-61/4" 5'-9¾" 5'-1¾" 4'-31/4" 3'-3" 30 FEET 5'-101/2" 6'-91/2" 7'-11'/4" 6'-0'/4" 12'-5¾" 11'-13/4' 40 FEET 12'-33/4" 14'-1'/4" 15'-81/2" 50 FEET 9'-61/2" 9'-51/2" 12'-31/4" 8'-61/2" 14'-71/2" 7'-9¾" 16'-81/4" 7'-21/2" 18'-6'/4" 60 FEET 11'-10'/4'' 11'-0¾" 10'-61/2" 14'-1'/4" 9'-61/2" 16'-81/2" 8'-9'/4" 18'-11¾" 8'-1'/2" 21'-0'/2"

#### **GENERAL NOTES**

INTERMEDIATE RADII CAN BE INTERPOLATED

AVOID PLACING DRAINAGE STRUCTURES, JUNCTION BOXES OR OTHER OBSTRUCTIONS IN FRONT OF RAMP ACCESS AREAS. DETECTABLE WARNING FIELDS THAT ARE INSTALLED AS A GROUP OR SIDE BY SIDE, SHALL BE FROM THE SAME MANUFACTURER.

- (2) GRADE CHANGE BETWEEN GUTTER FLAG SLOPE AND THE CURB RAMP SLOPE SHALL NOT EXCEED 11%. MAXIMUM GUTTER FLAG SLOPE IS 4%. PROVIDE LONGITUDINAL DRAINAGE AROUND CURB AND AWAY FROM CURB RAMP. NO VERTICAL LIPS OR DISCONTINUITIES GREATER THAN 1/4-INCH ARE ALLOWED. SLOPE OF CURB HEAD OPENING SHALL NOT EXCEED 7%.
- (3) ABSOLUTE MAXIMUM 12H:1V (8.33%) CURB RAMP SLOPE IS ALLOWABLE WITH FLATTENED GUTTER FLAG SLOPE AND NOT TO EXCEED 11% GRADE CHANGE.
- 4 ±0.5% CONSTRUCTION TOLERANCE IN SIDEWALK CROSS SLOPE. THE SIDEWALK CROSS SLOPE SHALL NOT EXCEED 2% WITHOUT PRIOR APPROVAL FROM THE ENGINEER.
- (6) PROVIDE A LEVEL LANDING (MAXIMUM 2% SLOPE) IN ANY DIRECTION OF PEDESTRIAN TRAVEL. STANDARD LANDING SIZE IS 5 FEET X 5 FEET.
- (7) WHEN THIS DISTANCE EXCEEDS 5 FEET, STAGGER ADDITIONAL DETECTABLE WARNING PANEL FORWARD TO REDUCE THIS DISTANCE. PROVIDE MINIMUM 12-INCH ROW OVERLAP TO AVOID SIDESTEP OF DOME DETECTION. USE EQUAL-SIZE PANELS TO DEVELOP OVERLAPPING, STAGGERED ROWS. ALIGN DOMES BETWEEN OVERLAPPING ROWS AND IN DIRECTION OF PEDESTRIAN TRAVEL.
- (8) PROVIDE GRADE BREAK PERPENDICULAR TO DIRECTION OF WHEELCHAIR TRAVEL.
- (10) INSTALL TRANSITION NOSE. (INCIDENTAL TO OTHER PAY ITEMS). DO NOT MARK TRANSITION NOSE.



TERRACE STRIP

VARIES O TO W

CONCRETE

CURB & GUTTER

TOP OF

ROADWAY

5'-0" RAMP

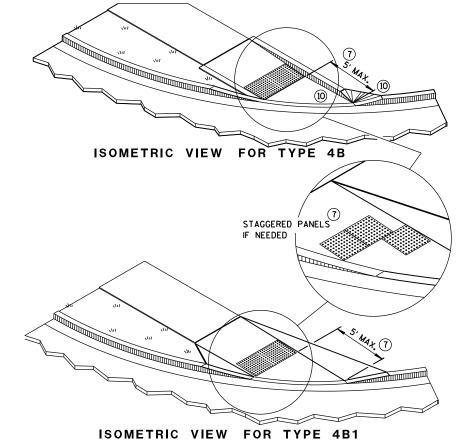
VARIES

0 TO 6"

1.5%

SECTION C-C FOR TYPE 4B

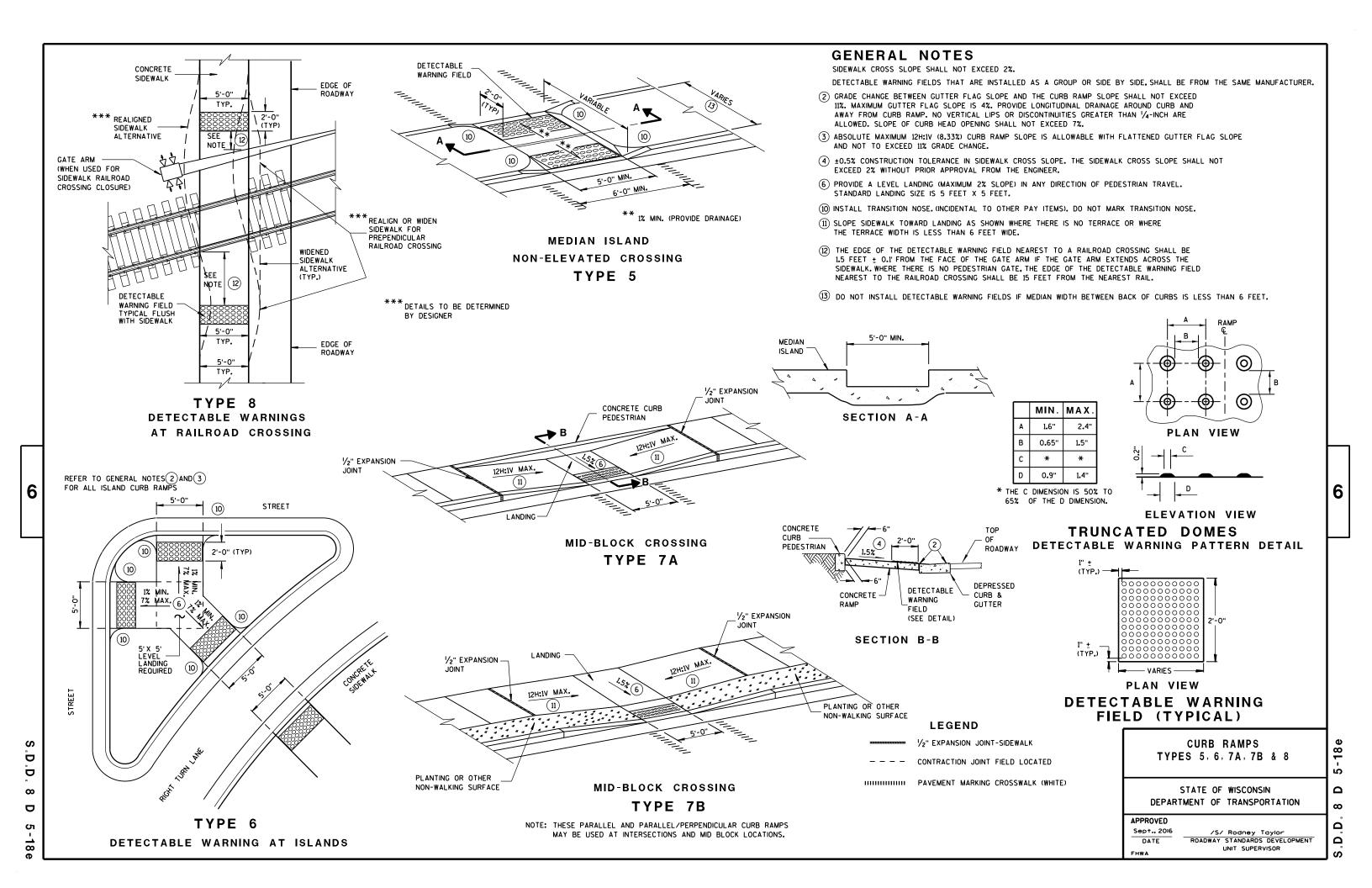
**CURB RAMP TYPE 4B1 PLAN VIEW** 



CURB RAMPS TYPE 4B AND 4B1

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

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TYPE Y

SIDEWALK WITH NARROWER TERRACE

TERRACE VARIES 4 TO 6 FEET

6

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TERRACE

PLANTING OR OTHER

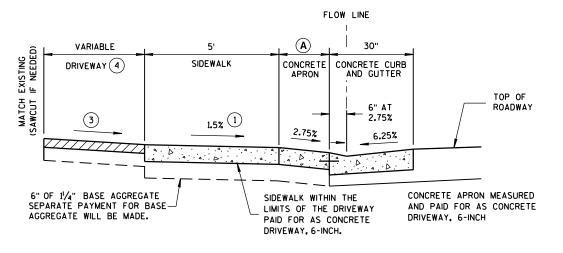
NON-WALKING SURFACE

CURB AND

(W): 12' MIN. - 24' MAX. RESIDENTIAL AND NON-COMMERCIAL (PE & FE) 16' MIN. - 35' MAX. COMMERCIAL (CE)

#### **GENERAL NOTES**

- (1) CONSTRUCTION TOLERANCE OF 0.5% ± FOR SIDEWALK CROSS SLOPE. THE SIDEWALK CROSS SLOPE SHALL NOT EXCEED 2%.
- (2) THE SIDEWALK RAMP MAXIMUM RUNNING SLOPE SHALL NOT REQUIRE THE RAMP LENGTH TO EXCEED 15 FEET TO AVOID CHASING THE SLOPE INDEFINITELY WHEN CONNECTING TO STEEP GRADES. WHEN APPLYING THE 15 FOOT MAXIMUM LENGTH, THE RUNNING SLOPE OF THE SIDEWALK SHALL BE AS FLAT AS FEASIBLE AND NOT EXCEED THE LONGITUDINAL GRADE OF THE ROADWAY.
- 3) DRIVEWAY SLOPES: DESIRABLE MAXIMUM 10.5% UP AWAY FROM SIDEWALK (SAG) 8.5% DOWN AWAY FROM SIDEWALK (CREST) ABSOLUTE MAXIMUM 15% FOR BOTH CREST AND SAG
- (4) DRIVEWAY TYPES
  - . 6-INCH CONCRETE DRIVEWAY PAVEMENT OVER 6-INCH BASE AGGREGATE
  - 2-INCH TO 3-INCH ASPHALTIC SURFACE OVER 6-INCH BASE AGGREGATE
  - 6-INCH BASE AGGREGATE (MAY BE INCREASED FOR CLAY SUBGRADES)
- (5) PROVIDE CONSTRUCTION JOINTS ALONG THE CENTER OF THE CONCRETE FOR DRIVEWAYS UNDER 20 FEET IN WIDTH AND AT THE THIRD POINTS OVER 20 FEET IN WIDTH.
- (6) (W) IS SHOWN ON PLAN AND PROFILE SHEETS.
- OFFSETS, ELEVATIONS, AND PERCENT GRADE ARE SHOWN ON THE CROSS SECTIONS.
- (8) SLOPE SIDEWALK RAMP TOWARD APRON AS SHOWN WHERE THERE IS NO TERRACE OR WHERE THE TERRACE WIDTH IS LESS THAN 6 FEET WIDE.



NOTE: SIDEWALK MAY BE DEPRESSED IN DRIVEWAY AREAS

#### SECTION Y-Y

### DRIVEWAY DETAIL WITH CONCRETE CURB & GUTTER

(URBAN AND SUBURBAN)

TABLE Y

BACK OF CURB

© FEET
2.0'
3.0'
3.5'

DRIVEWAY A	ND SIDEWALK								
RAMPS									
TYPES	X & Y								
STATE OF	WISCONSIN								
DEPARTMENT OF	TRANSPORTATION								

APPROVED

December, 2016 /S/ Rodney Taylor DATE ROADWAY STANDARDS DEVELOPMENT UNIT SUPERVISOR FHWA

NOT TO SCALE

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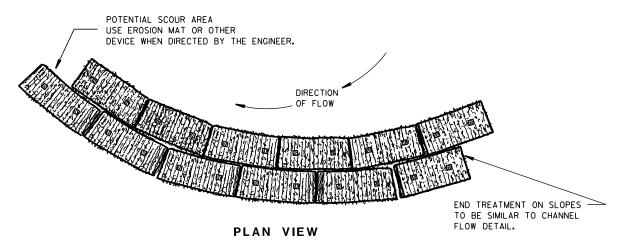
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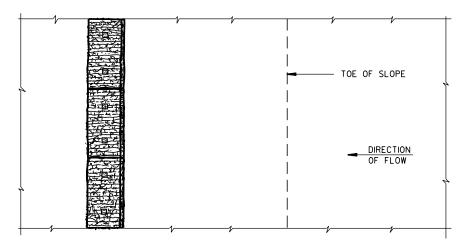
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DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

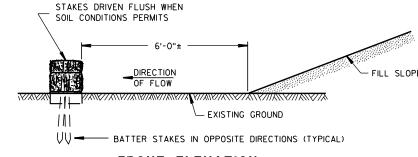
TEMPORARY DITCH CHECKS EITHER EROSION BALES OR MANUFACTURED SHALL BE PAID FOR UNDER THE BID ITEM OF TEMPORARY DITCH CHECK. THE DEPARTMENT WILL NOT PAY FOR TEMPORARY DITCH CHECKS CONSTRUCTED OF A SINGLE ROW OF EROSION BALES.



WHEN ALTERING THE DIRECTION OF FLOW



#### **PLAN VIEW**



#### FRONT ELEVATION

WHEN EXISTING GROUND SLOPES AWAY FROM FILL SLOPE

**EROSION BALES FOR SHEET FLOW** 

#### TYPICAL INSTALLATIONS OF **EROSION BALES / TEMPORARY** DITCH CHECKS

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

APPROVED

6/04/02 /S/ Beth Connestro
CHIEF ROADWAY DEVELOPMENT ENGINEER

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## TYPICAL APPLICATION OF SILT FENCE

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# PLAN VIEW SILT FENCE AT MEDIAN SURFACE DRAINS



#### **GENERAL NOTES**

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

- $\bigcirc$  HORIZONTAL BRACE REQUIRED WITH 2" X 4" WOODEN FRAME OR EQUIVALENT AT TOP OF POSTS.
- ② FOR MANUAL INSTALLATIONS THE TRENCH SHALL BE A MINIMUM OF 4" WIDE & 6" DEEP TO BURY AND ANCHOR THE GEOTEXTILE FABRIC. FOLD MATERIAL TO FIT TRENCH AND BACKFILL & COMPACT TRENCH WITH EXCAVATED SOIL.
- 3 WOOD POSTS SHALL BE A MINIMUM SIZE OF 11/8" X 11/8" OF OAK OR HICKORY.
- 4) SILT FENCE TO EXTEND ACROSS THE TOP OF THE PIPE.
- (5) CONSTRUCT SILT FENCE FROM A CONTINUOUS ROLL IF POSSIBLE BY CUTTING LENGTHS TO AVOID JOINTS. IF A JOINT IS NECESSARY USE ONE OF THE FOLLOWING TWO METHODS; A) OVERLAP THE END POSTS AND TWIST, OR ROTATE, AT LEAST 180 DEGREES, B) HOOK THE END OF EACH SILT FENCE LENGTH.



TRENCH DETAIL



SILT FENCE TIE BACK
(WHEN REQUIRED BY THE ENGINEER)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
4-29-05 /S/ Beth Cannestra

29-05 /S/ Beth Cannestra
DATE CHIEF ROADWAY DEVELOPMENT ENGINEER

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INLET PROTECTION, TYPE A

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

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

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







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

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

DIMPLED BAND MAY BE USED WITH HELICALLY

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

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

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

### \* EXCEPT CENTER PANEL SEE GENERAL NOTES





SHOULDER

SLOPE



SIDE ELEVATION METAL ENDWALLS



\*\*MAXIMUM





CONCRETE ENDWALLS

CONNECTION DETAILS



## SECTION A-A

#### GENERAL NOTES

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

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

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

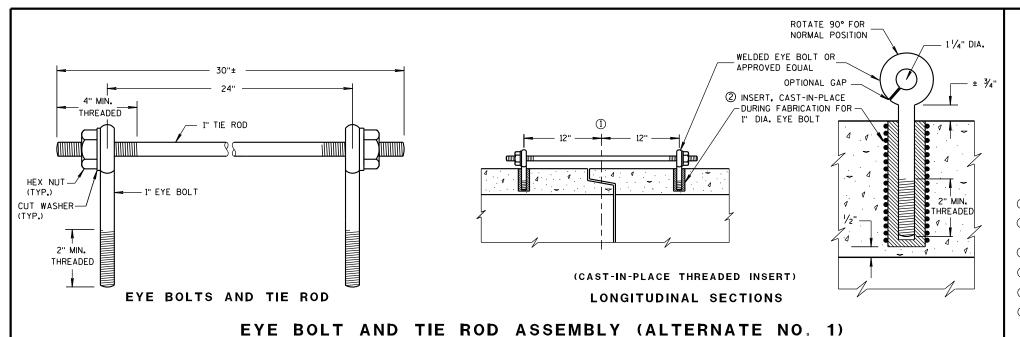
LAP SEAMS SHALL BE TIGHTLY JOINED BY GALVANIZED RIVETS OR BOLTS FOR STEEL UNITS AND ALUMINUM RIVETS AND BOLTS FOR ALUMINUM UNITS. FOR THE 60" THROUGH 96" DIAMETER APRON ENDWALL SIZES. THE REINFORCED EDGES AND CENTER PANEL SEAMS SHALL BE FURTHER REINFORCED WITH GALVANIZED STEEL OR ALUMINUM STIFFENER ANGLES.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

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

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



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



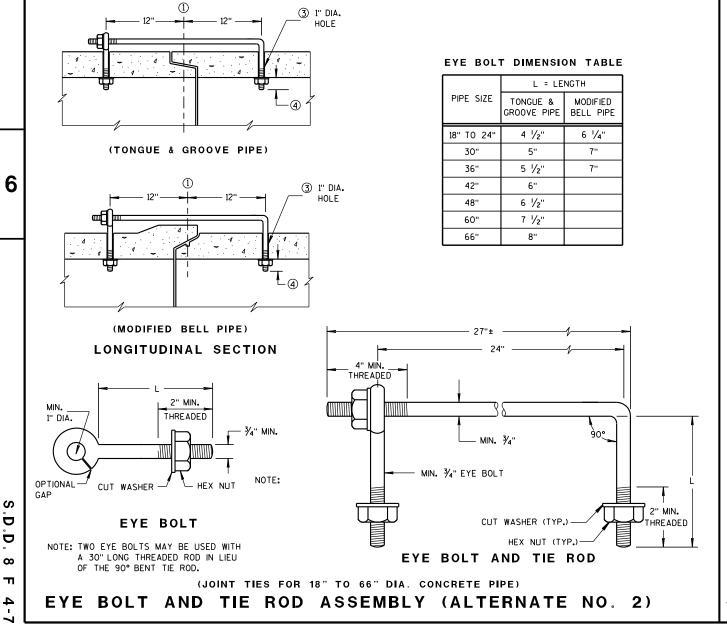
DETAILS OF CONSTRUCTION, MATERIALS, AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND APPLICABLE SPECIAL PROVISIONS.

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.

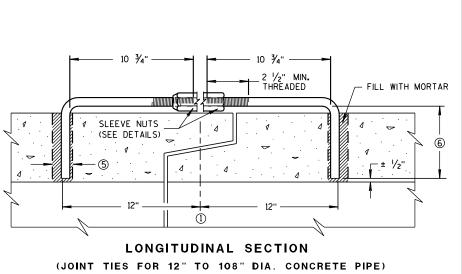
DETAILED DRAWINGS FOR PROPOSED ALTERNATE DESIGNS FOR JOINT TIES SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL.

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

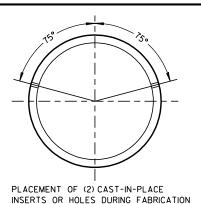
- (1) & OF TONGUE AND GROOVE OR BELL AND SPIGOT JOINTS.
- THE INSIDE OF THE THREADED INSERTS SHALL BE CLEAN TO ALLOW THE INSERTION OF THREADED EYE
- ${\mathfrak S}$  HOLES SHALL BE CAST-IN-PLACE OR DRILLED 12 INCHES FROM  ${\mathfrak L}$  OF TONGUE AND GROOVE.
- 4 BOLT PROJECTION INSIDE OF PIPE SHALL 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

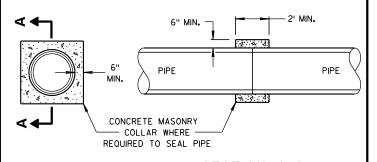


ADJUSTABLE TIE ROD (ALTERNATE NO. 3)



FOR PIPE SECTIONS REQUIRING TIE RODS

#### TRANSVERSE SECTION



SECTION A-A

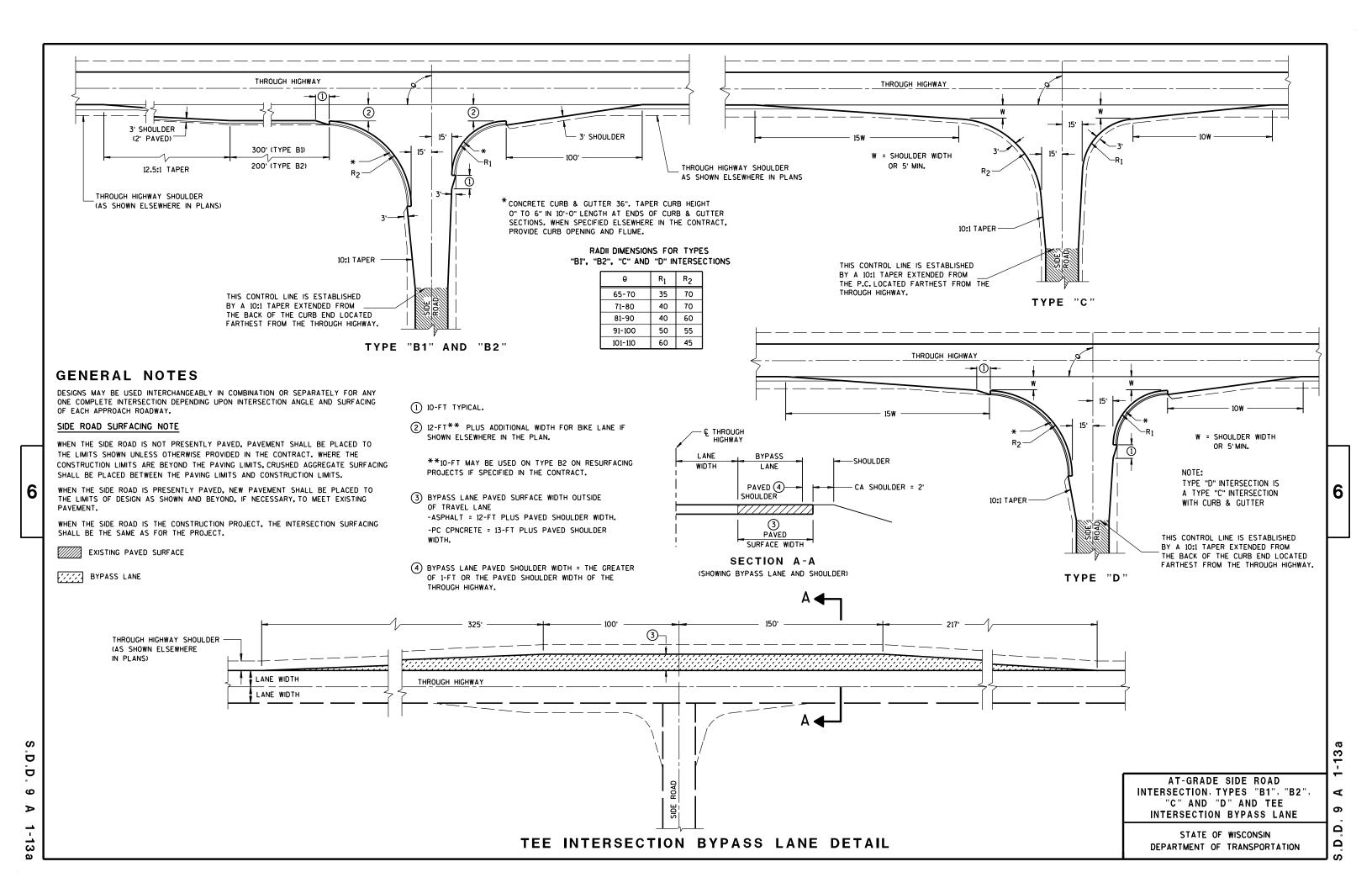
#### CONCRETE COLLAR DETAIL

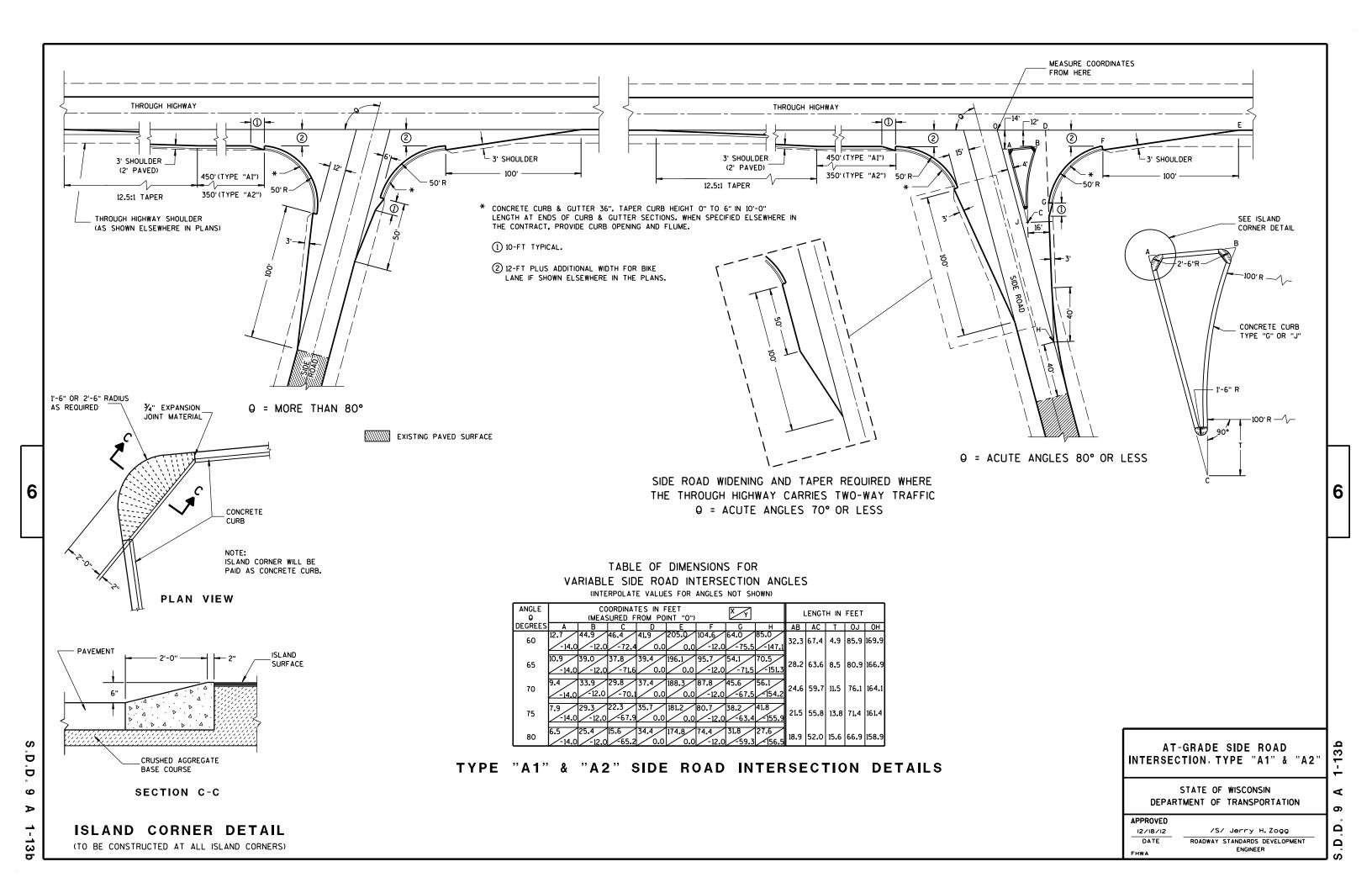
JOINT TIES FOR CONCRETE PIPE AND CONCRETE COLLAR DETAIL

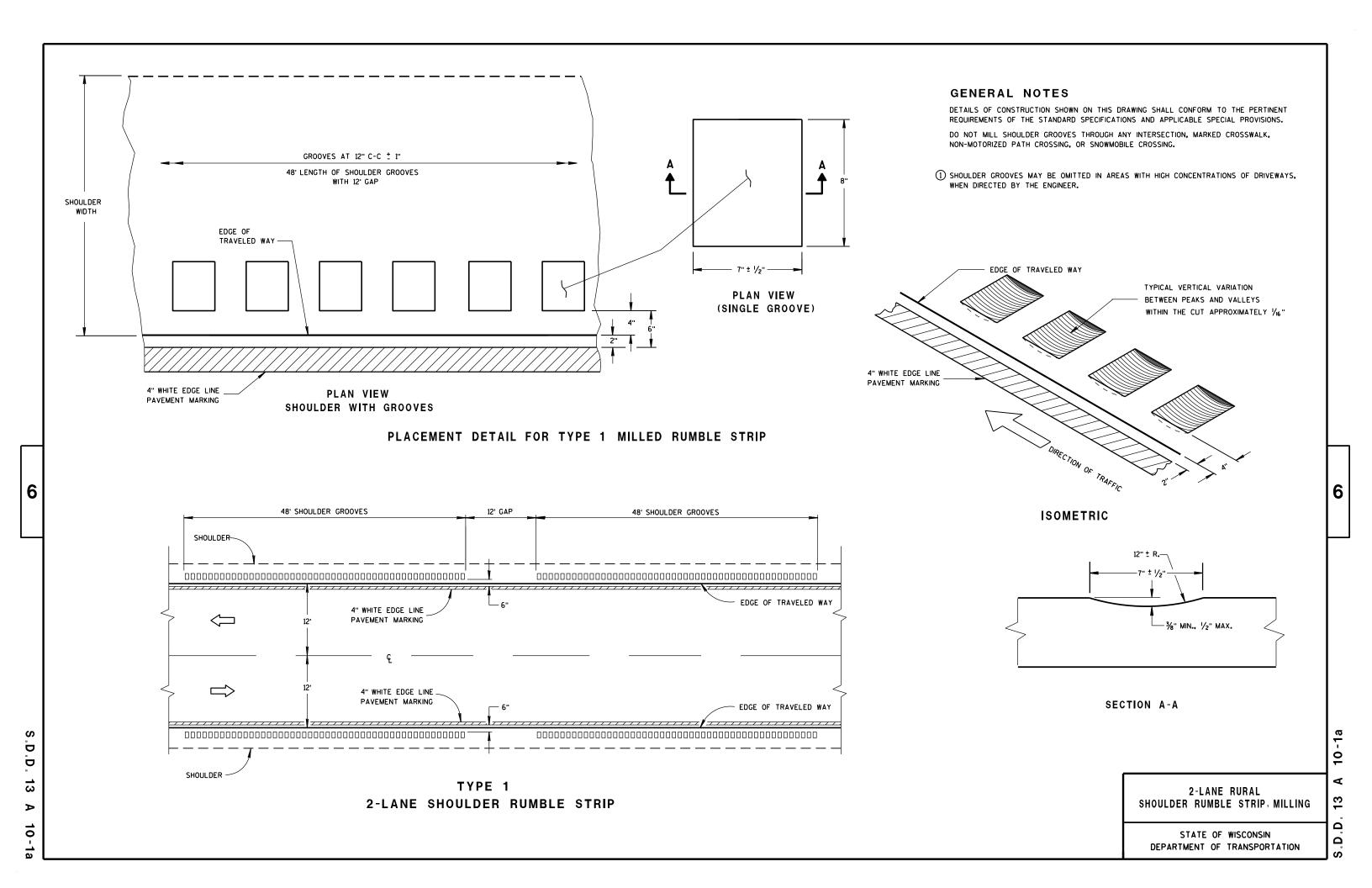
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

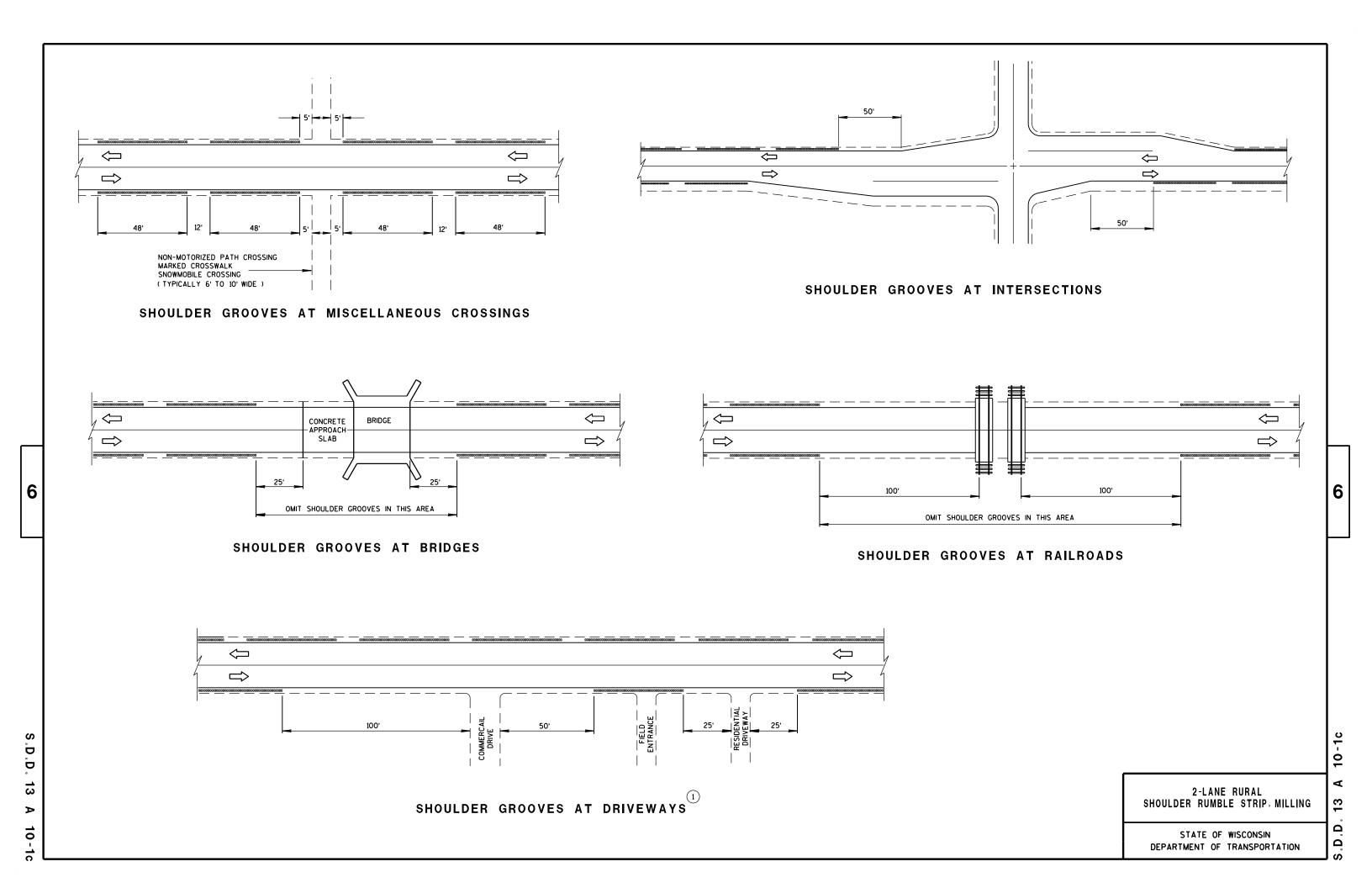
6/5/2012 /S/ Jerry H. Zogg DATE ROADWAY STANDARDS DEVELOPMENT ENGINEER

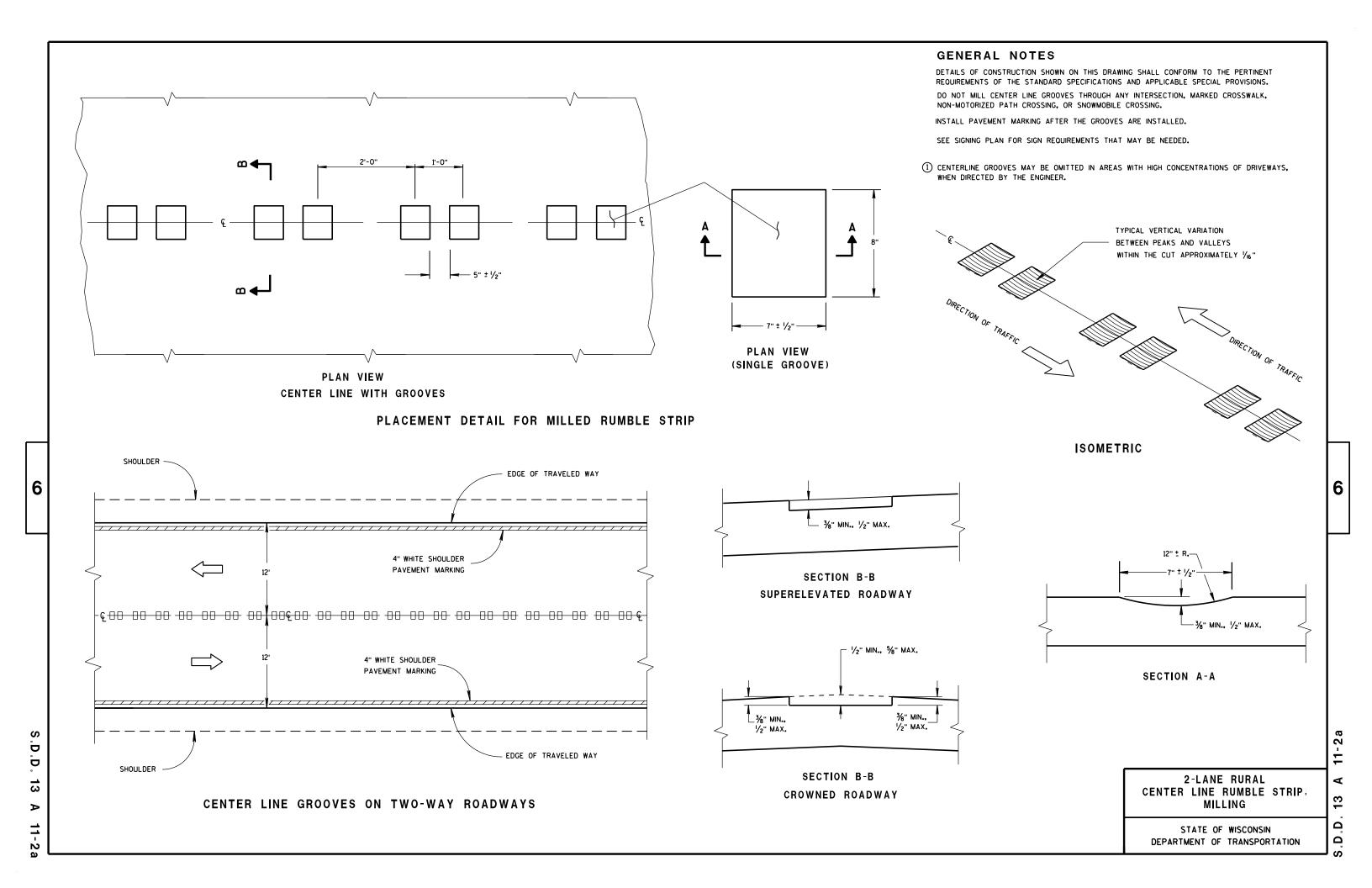
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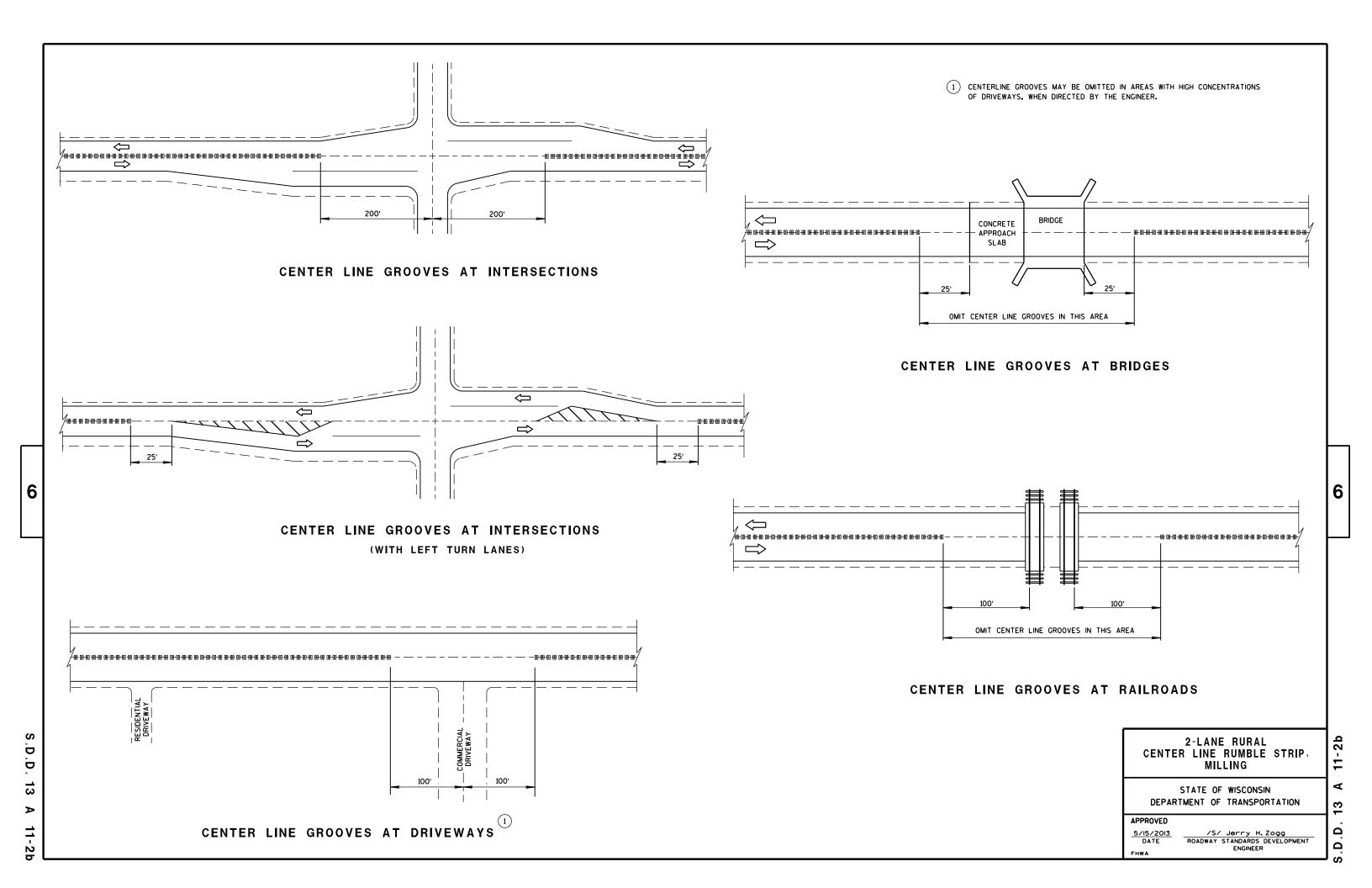


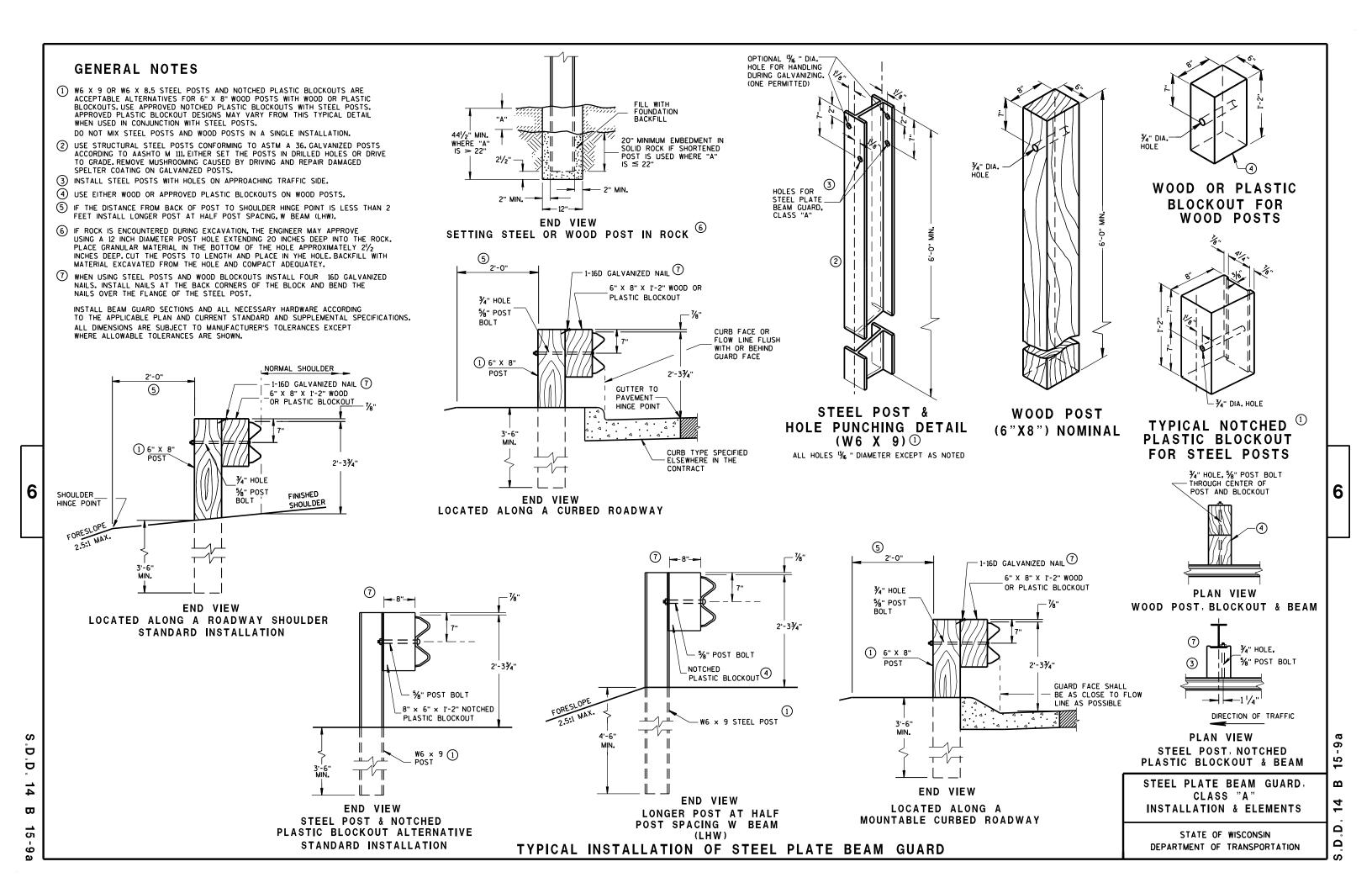










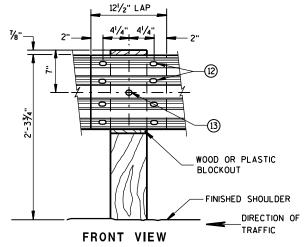


FRONT VIEW

POST SPACING STANDARD INSTALLATION

# 3/6" R 11/1/6" R 3/6" R 11/1/2" SYMMETRICAL ABOUT € 12 GAGE 10 31/4"

SECTION THRU W BEAM



BEAM SPLICE AT WOOD POST AND POST MOUNTING DETAIL

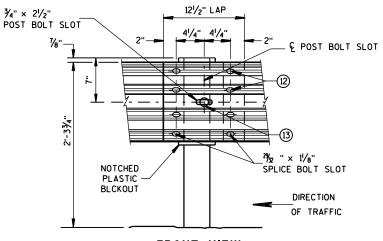
#### GENERAL NOTES

- (8) PROVIDE SILVER REFLECTIVE SHEETING ON ALL REFLECTORS EXCEPT THOSE LOCATED ALONG THE LEFT EDGE OF ONE-WAY ROADWAYS, WHICH SHALL BE PROVIDED WITH YELLOW REFLECTIVE SHEETING. SHEETING IS TYPE H. SEE STANDARD SPECIFICATION 637.
- 9 DO NOT INSTALL REFLECTORS ON THE FIRST 50 FEET OF THE APPROACH END OF THE ENERGY ABSORBING TERMINAL.
- (10) REVERSE EVERY OTHER REFLECTOR FOR 2-WAY VISIBILITY. THE CONTRACTOR MAY FURNISH TWO-SIDED REFLECTORS IN LIEU OF ONE-SIDED REFLECTORS.
- (11) PROVIDE AN ANGLE OF BEND OF 90° ± 1° FOR TWO-SIDED REFLECTORS.
- (12) 8 -5%" \$ X 2" BUTTON HEAD BOLTS WITH OVAL SHOULDERS & RECESS NUTS.
- 3 %" DIA. BUTTON HEAD BOLT AND RECESS NUT WITH %" DIA. F844 FLAT WASHER UNDER NUT.

# I2'-6" OR 25'-0" EFFECTIVE LENGTH OF BEAM 3'-1\frac{1}{2}\t" C-C 3'-1\frac{1}\t" C-C 3'-1\frac{1}{2}\t" C-C 3'-1\frac{1}{2}\t" C-C 3'-1\frac{1}{2}\t" C-C 3'-1\frac{1}{2}\t" C-C 3'-1\frac{1}{2}\t" C-C 3'-1

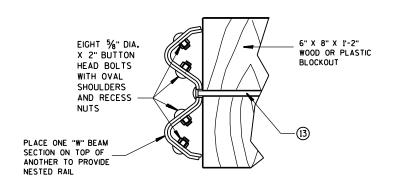
FRONT VIEW

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



FRONT VIEW
BEAM SPLICE AT STEEL POST

TYPICAL SPLICING DETAILS
OF STEEL PLATE BEAM GUARD

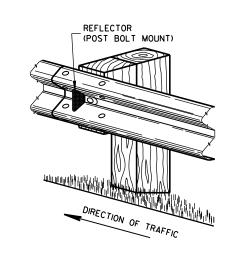


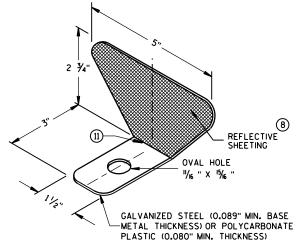
**NESTED W BEAM (NW)** 

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

	9
REFLECTOR	SPACING

	BEAM GUARD	REFLECTOR	NO. SURFACES	MIN. NO.
	LENGTH	SPACING	REFLECTORIZED	REFLECTORS
ONE WAY	< 200'	50' C-C	1	3
TRAFFIC	> 200'	100' C-C	1	
TWO WAY	< 500,	25' C-C 50' C-C	1 100	6
			_	
TWO WAY TRAFFIC	> 500,	50' C-C	2(11)	3





ONE SIDED REFLECTOR DETAIL AND TYPICAL INSTALLATION

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

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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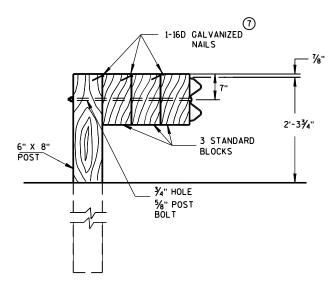
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#### DETAIL FOR DOUBLE BLOCKS

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

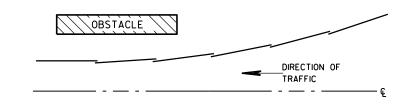


#### DETAIL FOR TRIPLE BLOCKS

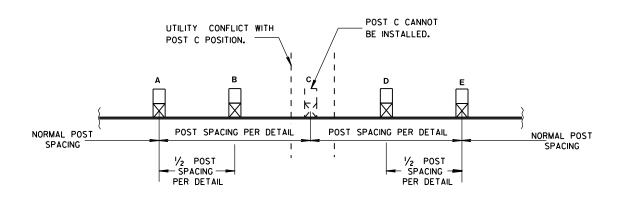
TRIPLE BLOCK DETAIL IS LIMITED TO ONE LOCATION WITHIN A BEAM GUARD RUN.

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 6

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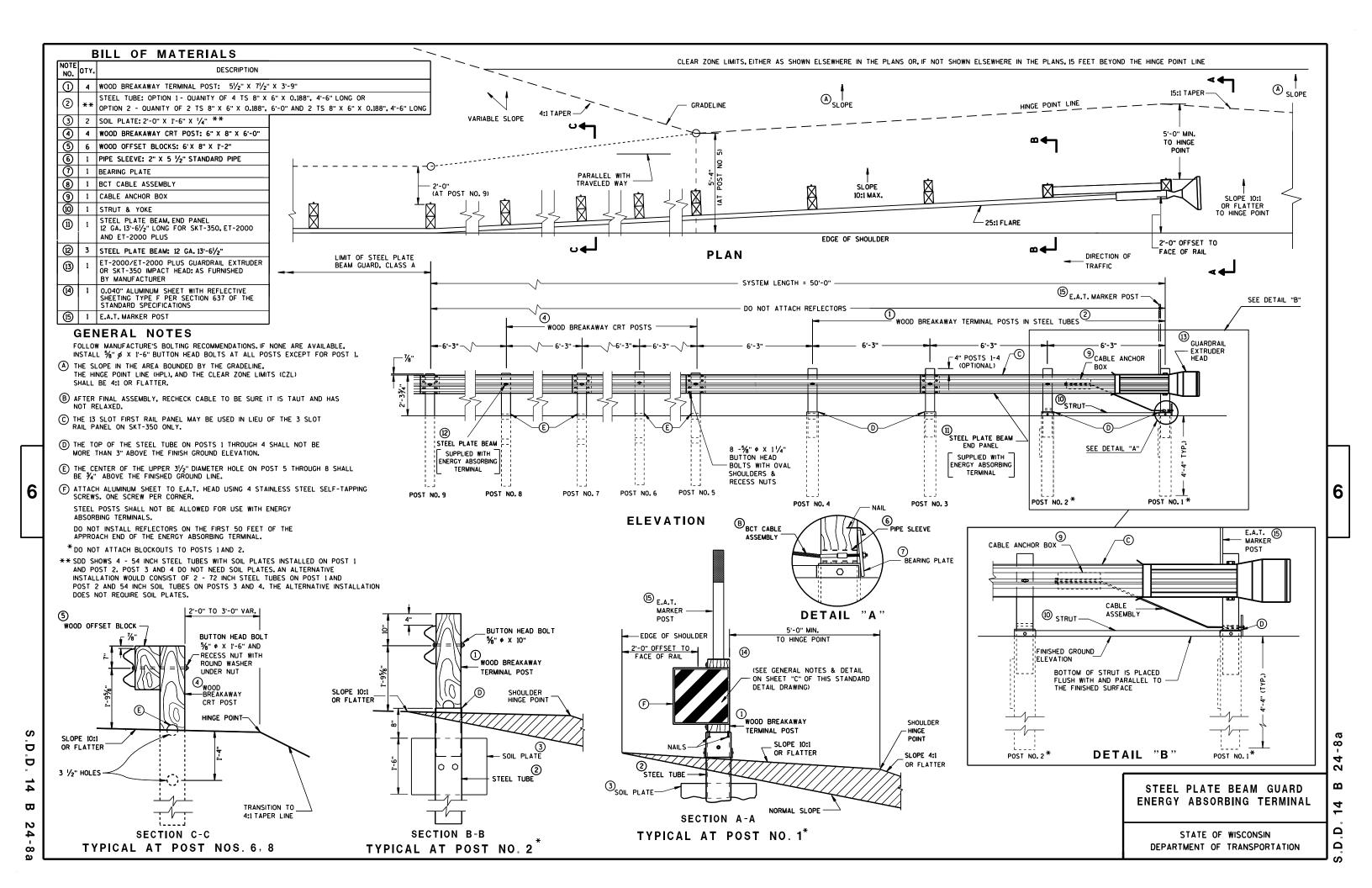
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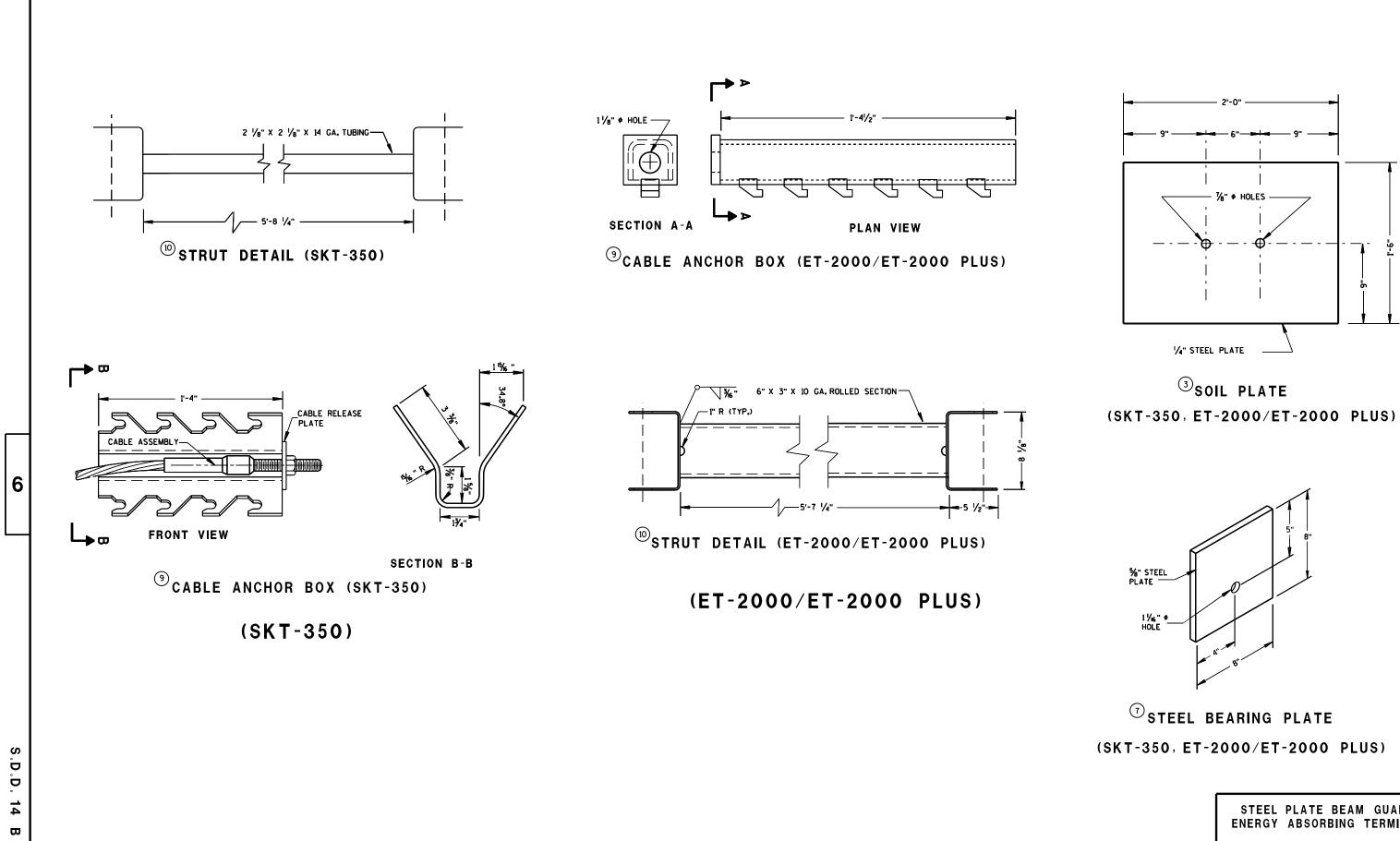
APPROVED

June 2016
DATE
ROADWAY STANDARDS DEVELOPMENT
ENGINEER

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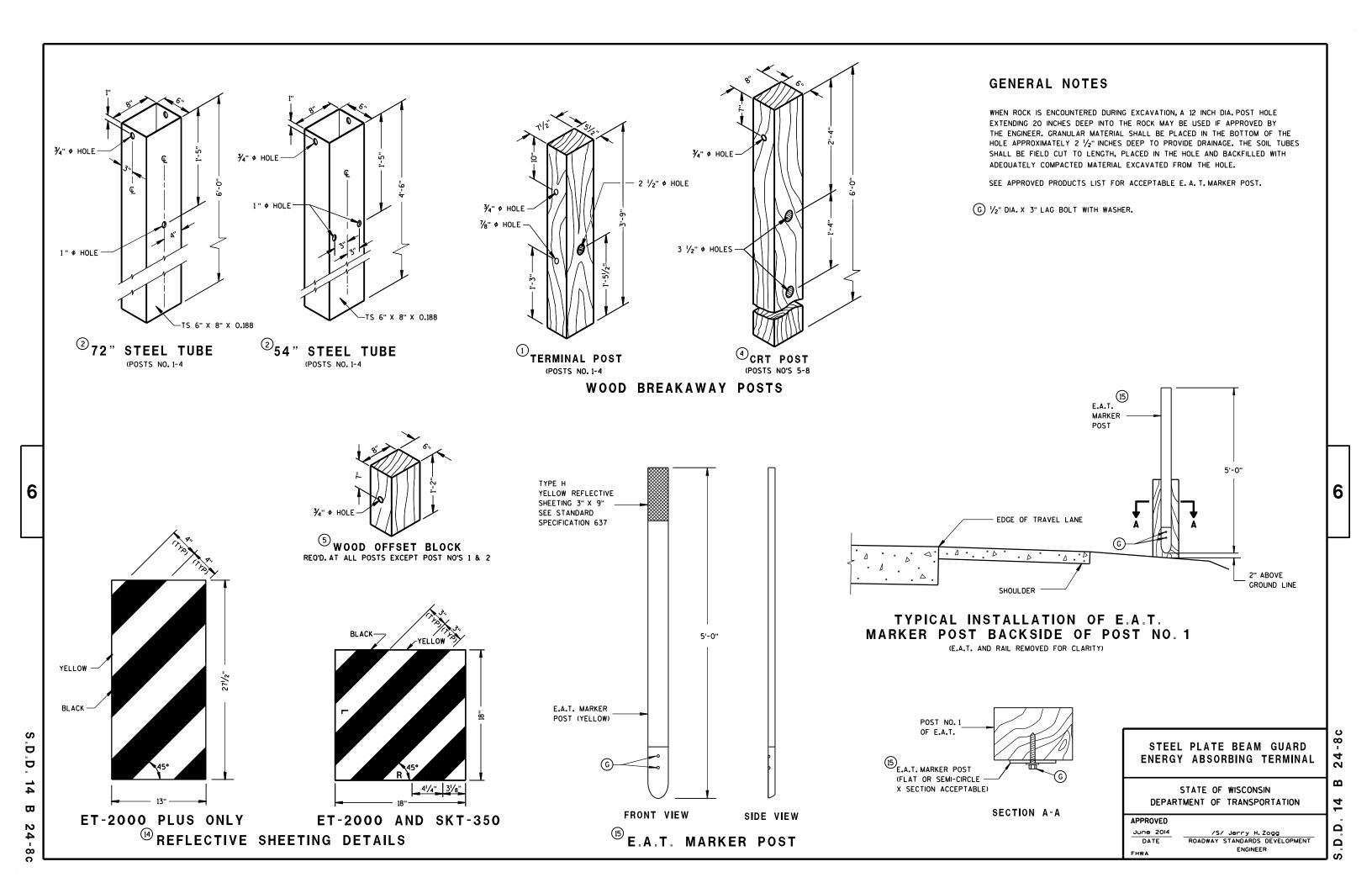


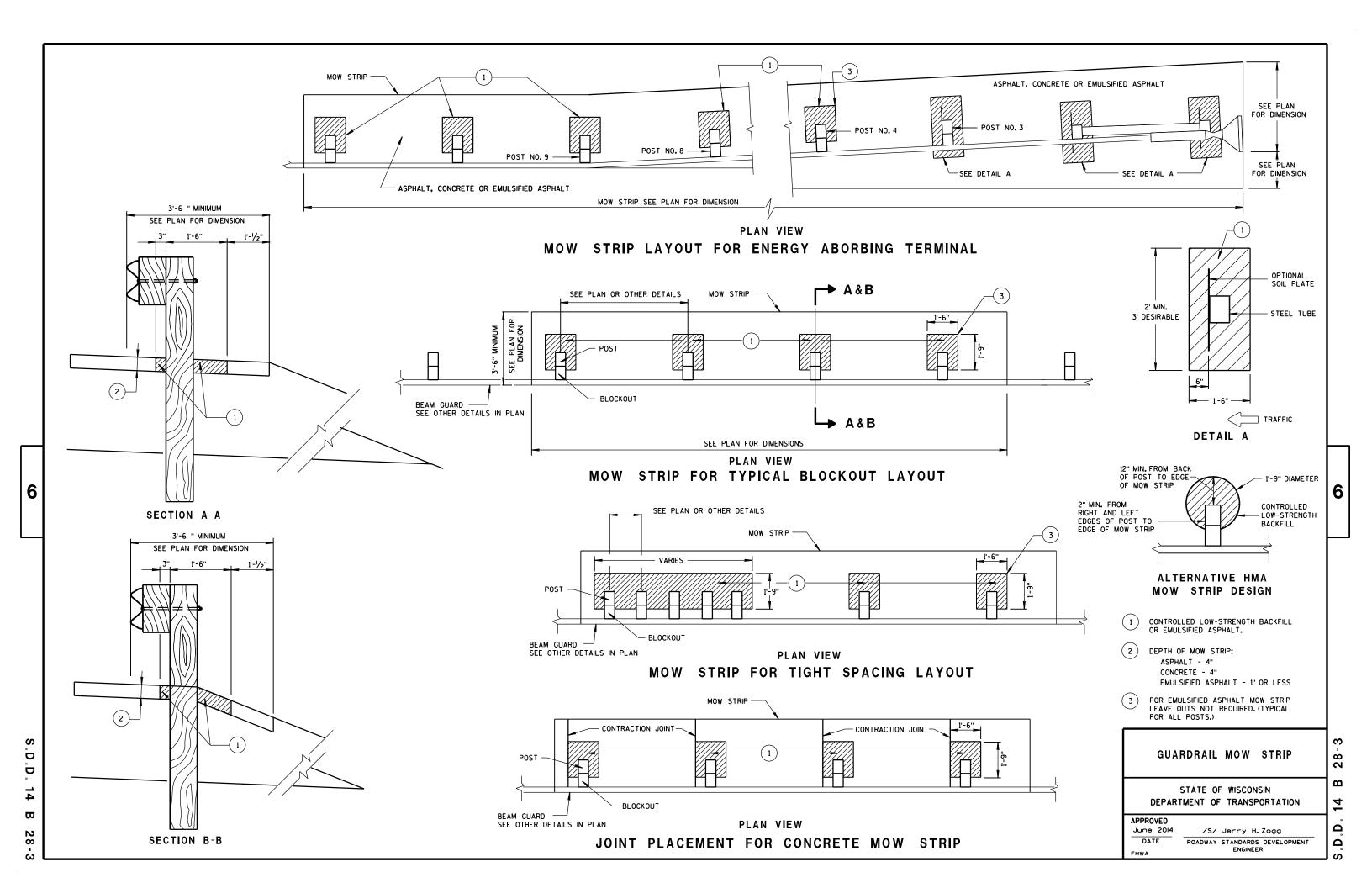


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STEEL PLATE BEAM GUARD **ENERGY ABSORBING TERMINAL** 

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION 14 أ يُ





#### **GENERAL NOTES**

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

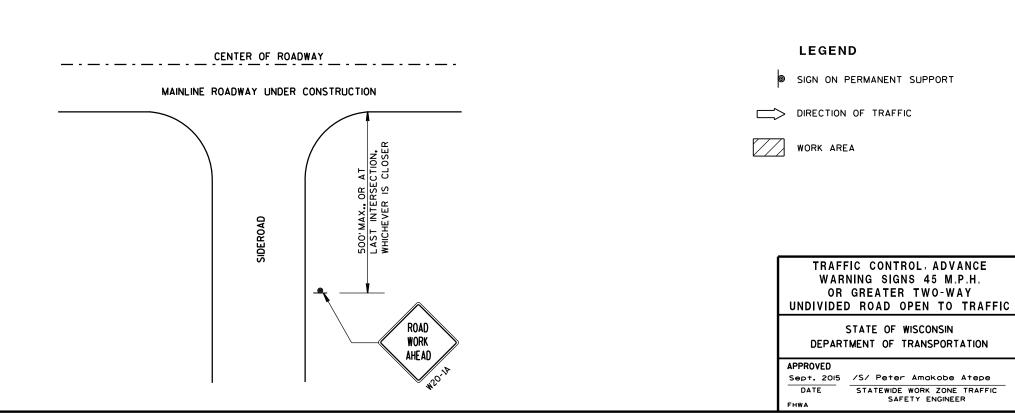
THE SPACING BETWEEN TRAFFIC CONTROL SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND SHOULD PROVIDE A MINIMUM OF 200 FEET (500 FEET DESIRABLE) CLEARANCE TO EXISTING SIGNS THAT WILL REMAIN IN PLACE.

ALL SIGNS ARE 48"x48" UNLESS OTHERWISE NOTED.

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

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

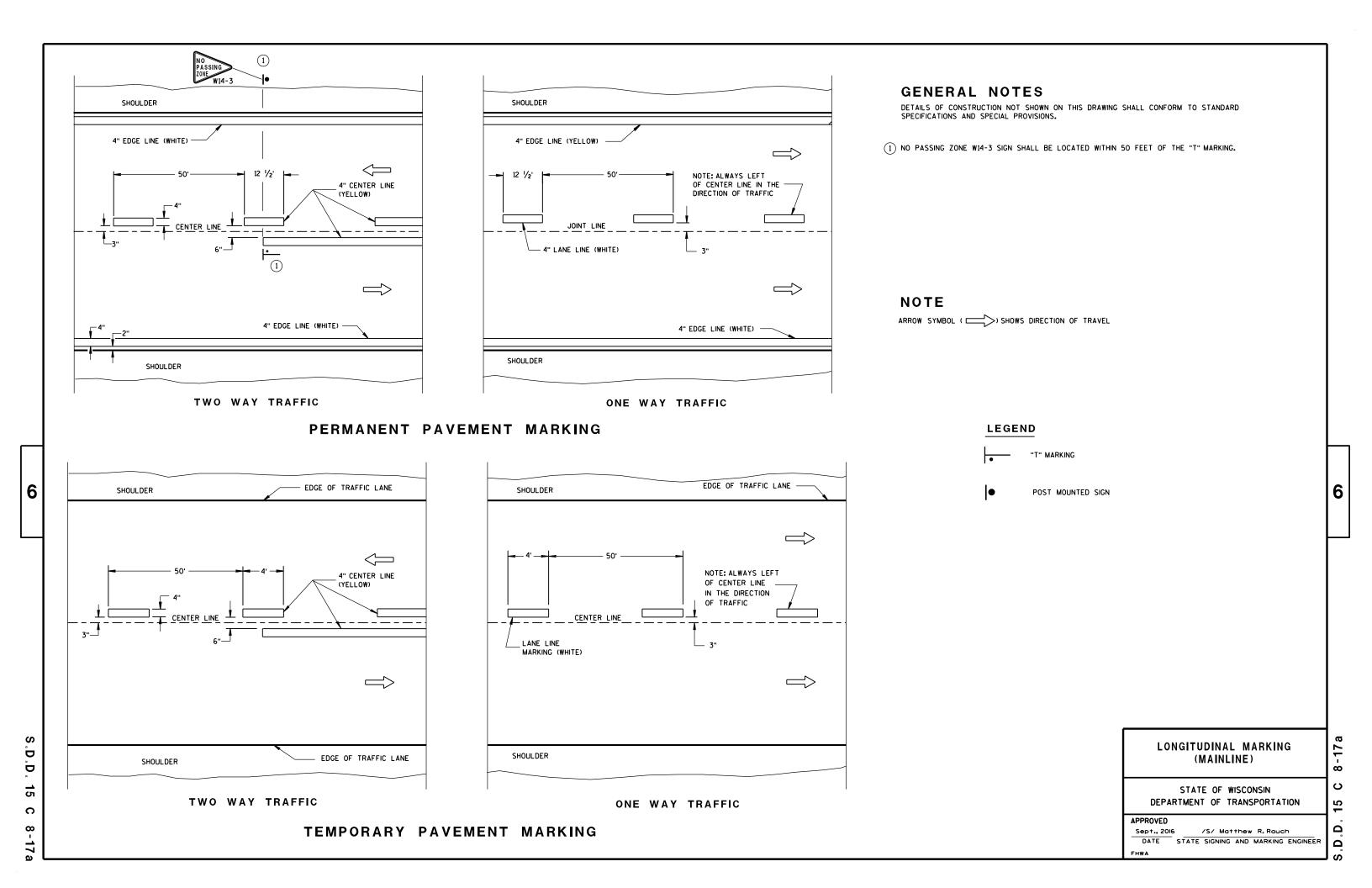
- \* OMIT G20-1 SIGNS IF LENGTH OF WORK AREA IS 2 MILES OR LESS.
- \* PLACE ADDITIONAL W20-1A "ROAD WORK AHEAD" SIGN IF WORK AREA WITHIN THE PROJECT IS SEPARATED BY MORE THAN 2 MILES FROM PREVIOUS WORK AREA.

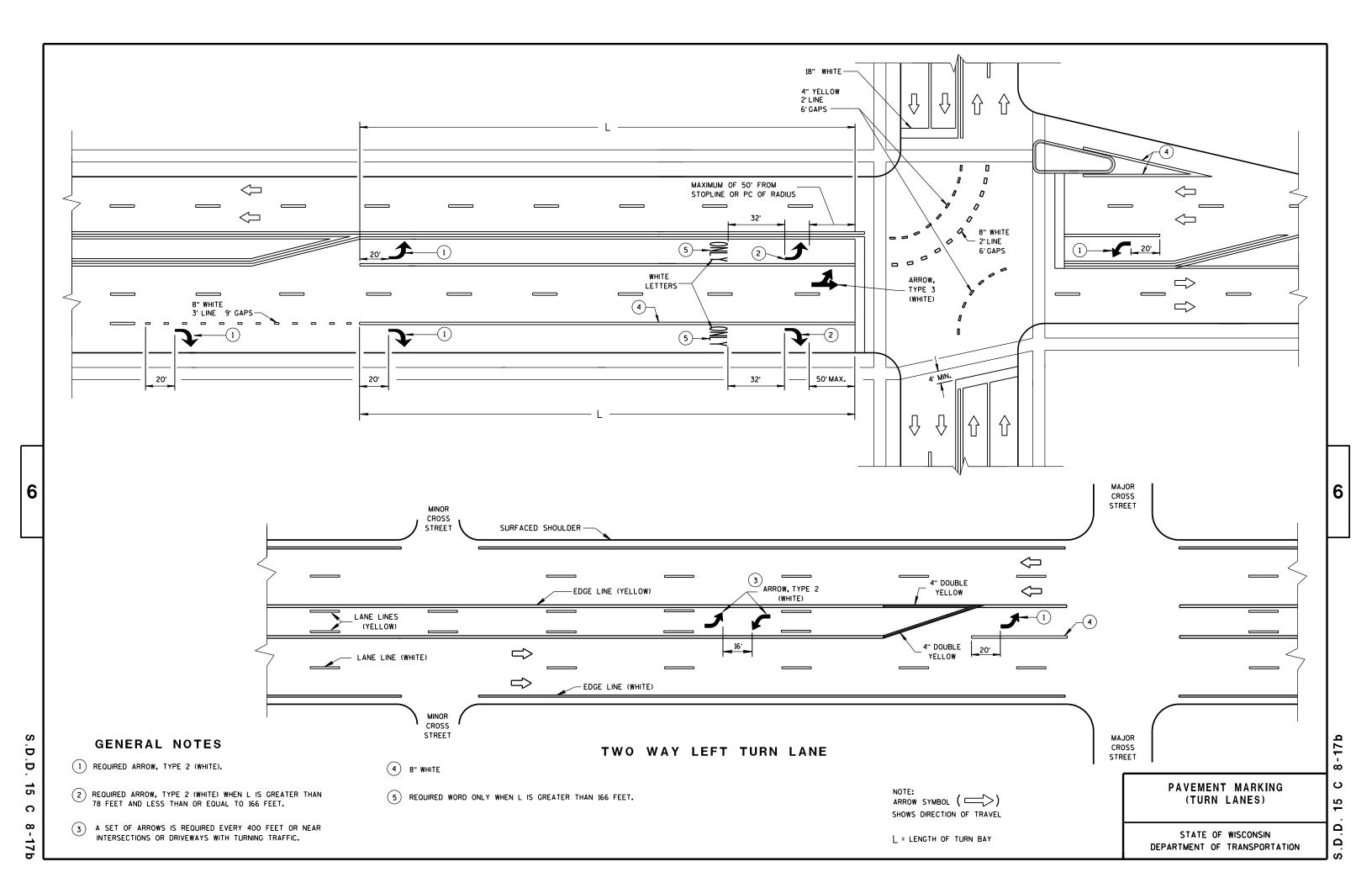


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SAFETY ENGINEER

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

#### **GENERAL NOTES**

DETAILS OF TRAFFIC CONTROL DEVICES AND INSTALLATION NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS, THE SPECIAL PROVISIONS, AND THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.

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

THE FIRST ADVANCE WARNING SIGN SHOULD TYPICALLY BE LOCATED IN ADVANCE OF THE ANTICIPATED TRAFFIC BACKUP OR QUEUE.

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

WHEN A SIDE ROAD OR RAMP INTERSECTS THE FACILITY ON WHICH THE WORK IS BEING PERFORMED, ADDITIONAL TRAFFIC CONTROLS SHALL BE PROVIDED AS SPECIFIED IN THE PLANS AND/OR THE SPECIAL PROVISIONS OR AS APPROVED BY THE ENGINEER.

INSTALL TEMPORARY RUMBLE STRIPS PER MANUFACTURER'S RECOMMENDATIONS. PLACE ADVANCE SIGNING PRIOR TO INSTALLING TEMPORARY RUMBLE STRIPS.

ALL SIGNS ARE 48" X 48" UNLESS OTHERWISE NOTED.

- \* 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.

TRAFFIC CONTROL FOR LANE CLOSURE WITH FLAGGING OPERATION

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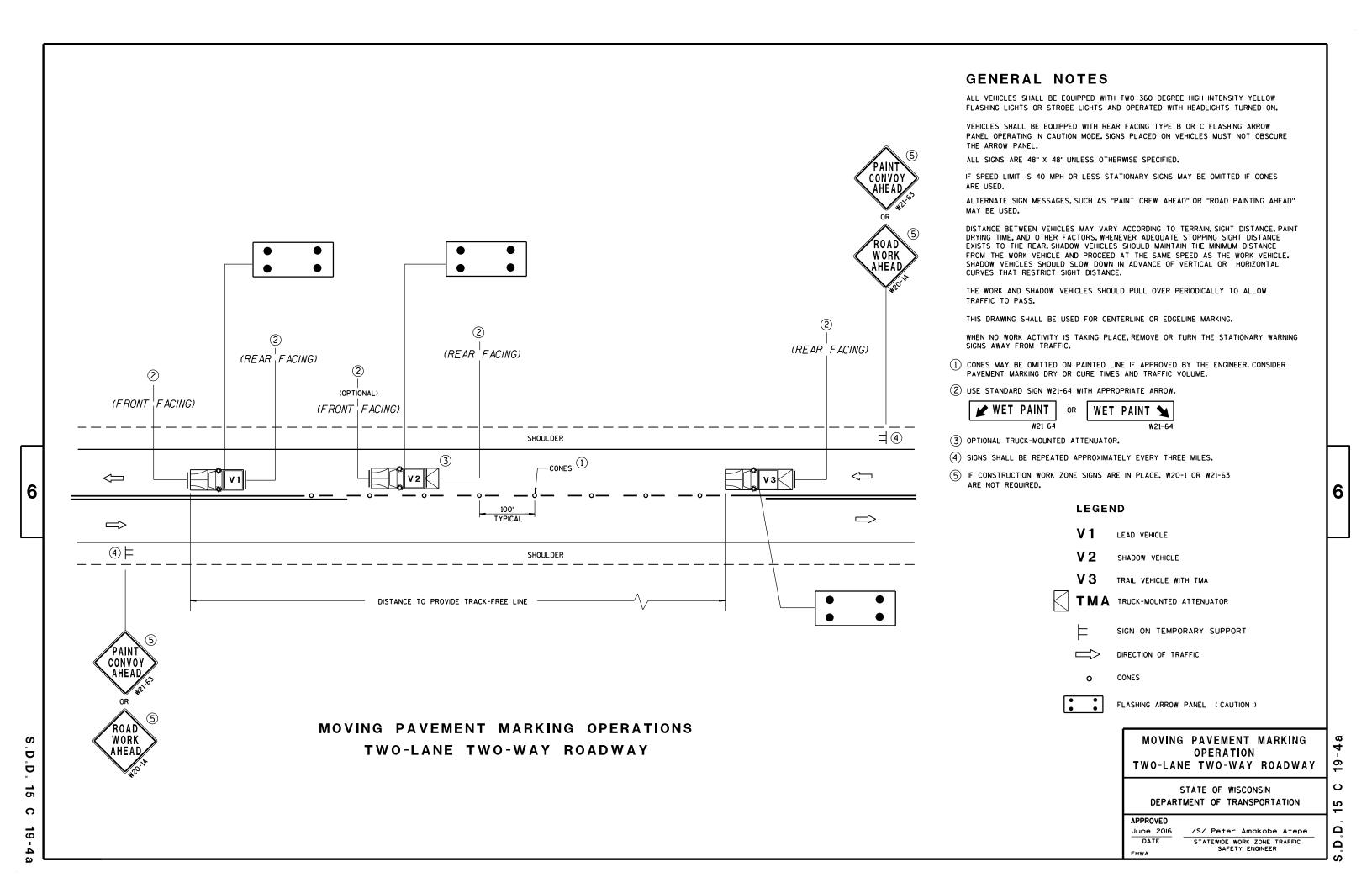
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

/S/ Andrew Heidtke WORK ZONE ENGINEER

S Ö 15 C 2

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FLAGGERS SHALL BE IN SIGHT OF EACH OTHER OR IN DIRECT COMMUNICATION AT ALL TIMES. THEY SHALL BE EQUIPPED WITH EACH TEMPORARY RUMBLE STRIP ARRAY CONSISTS OF THREE RUMBLE STRIPS STOP/SLOW PADDLES FASTENED ON SUPPORT STAFFS. WHEN THE SPACED ACCORDING TO MANUFACTURER'S RECOMMENDATION, PLACED TRANSVERSE FLAGGING OPERATION IS NOT IN EFFECT. REMOVE TEMPORARY ACROSS THE LANE AT LOCATIONS SHOWN. RUMBLE STRIPS PRIOR TO COVERING OR REMOVING ALL ADVANCE APPROVED SIGNING. December, 2016 FHWA



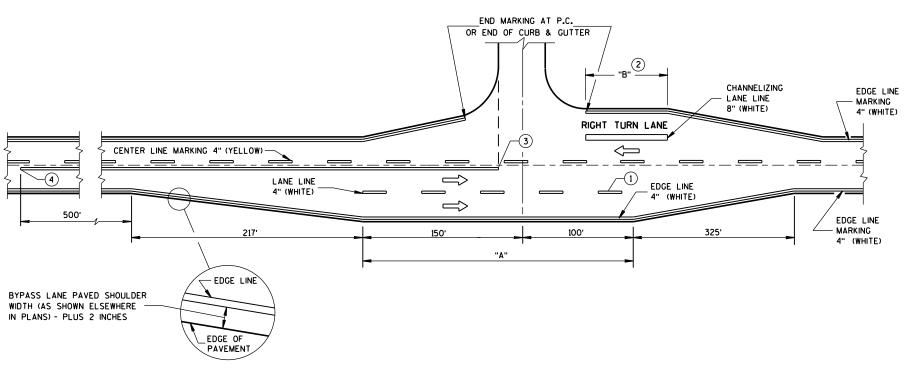
#### MINOR INTERSECTION WITHOUT CURBS

#### **GENERAL NOTES**

EDGE LINES SHALL BE OMITTED THROUGH INTERSECTIONS. EDGE LINES SHALL BE CONTINUED THROUGH DRIVEWAYS.

- 1) WHEN DISTANCE "A" IS LESS THAN 250 FEET, OMIT LANE LINE.
- 2) WHEN DISTANCE "B" IS LESS THAN 100 FEET, OMIT CHANNELIZING LANE LINE.
- (3) BARRIER LINE ENDS AT SIDE ROAD PAVEMENT/SURFACE EDGE EXTENSION.
- (4) BARRIER LINE STARTS 500 FEET PRIOR TO THE BYPASS TAPER.

ARROW SYMBOL ( >> ) SHOWS DIRECTION OF TRAVEL



#### MAJOR INTERSECTIONS

(INTERSECTION WITH FULL RIGHT TURN LANE OR BYPASS LANES)

**PAVEMENT MARKING** (INTERSECTIONS)

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

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35-1a

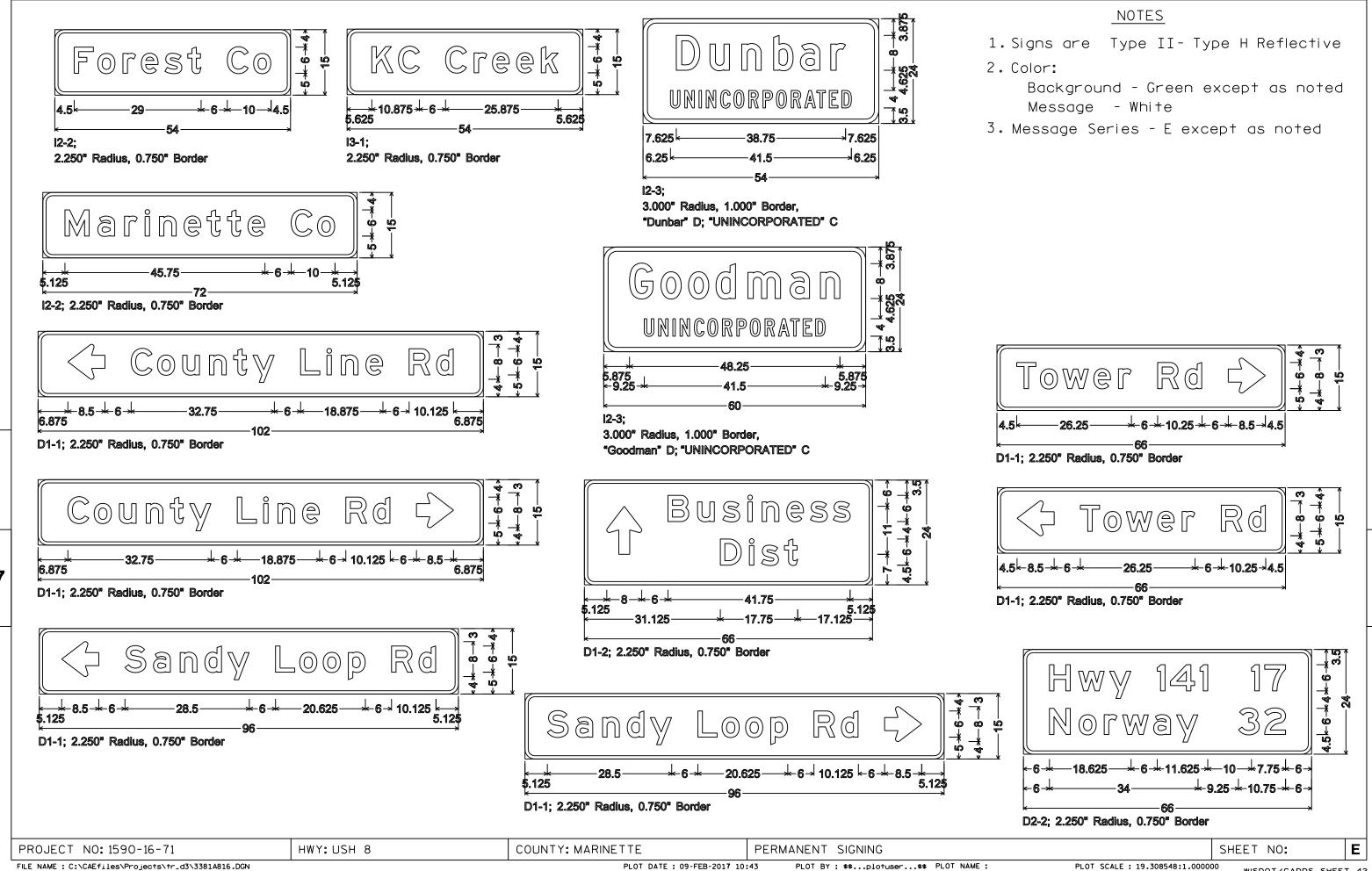
ပ 15 Ω

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PLOT DATE: 09-FEB-2017 10:43

PLOT SCALE: 19.308548:1.000000

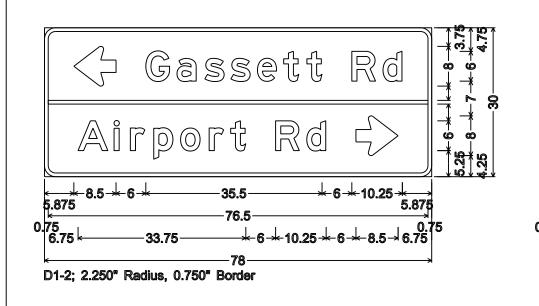
WISDOT/CADDS SHEET 42

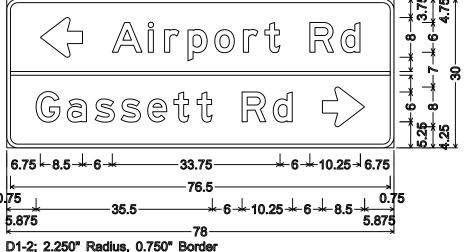


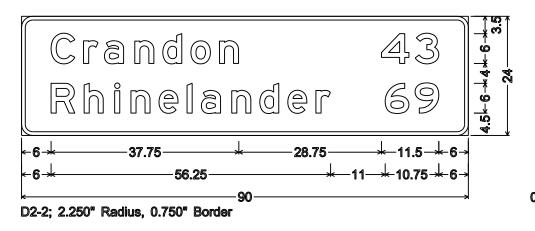
- 1. Signs are Type II- Type H Reflective
- 2. Color:

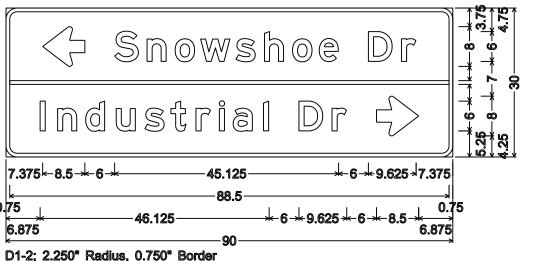
Background - Green except as noted Message - White

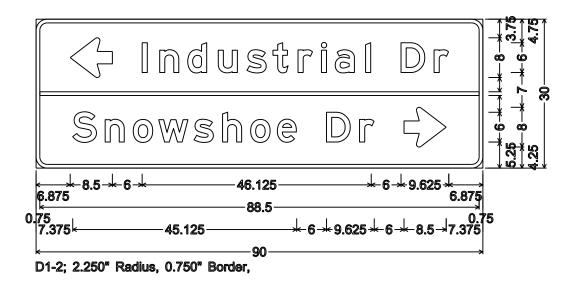
3. Message Series - E except as noted

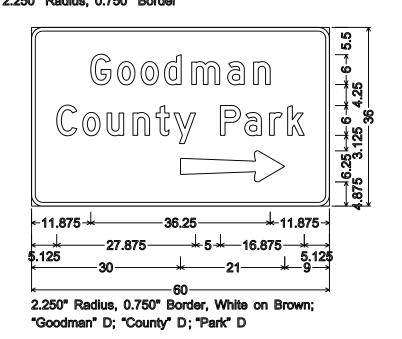


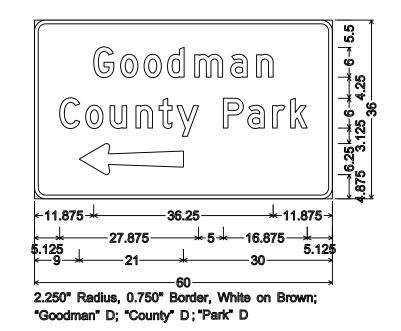












PROJECT NO: 1590-16-71

HWY:USH 8

COUNTY: MARINETTE

PERMANENT SIGNING

SHEET NO:

LI NO.

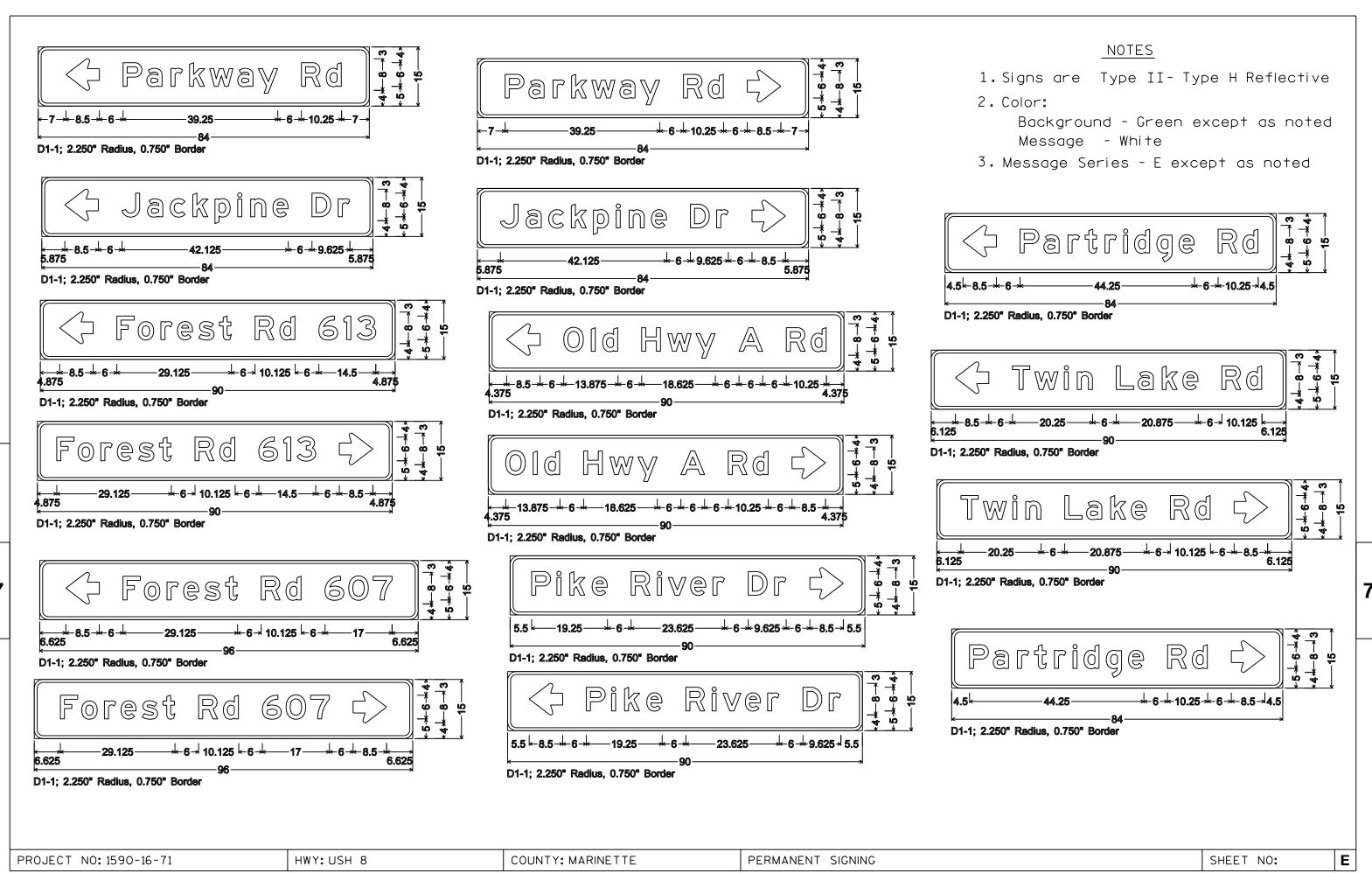
FILE NAME : C:\CAEfiles\Projects\tr\_d3\3381A816.DGN

PLOT DATE: 09-FEB-2017 10:43

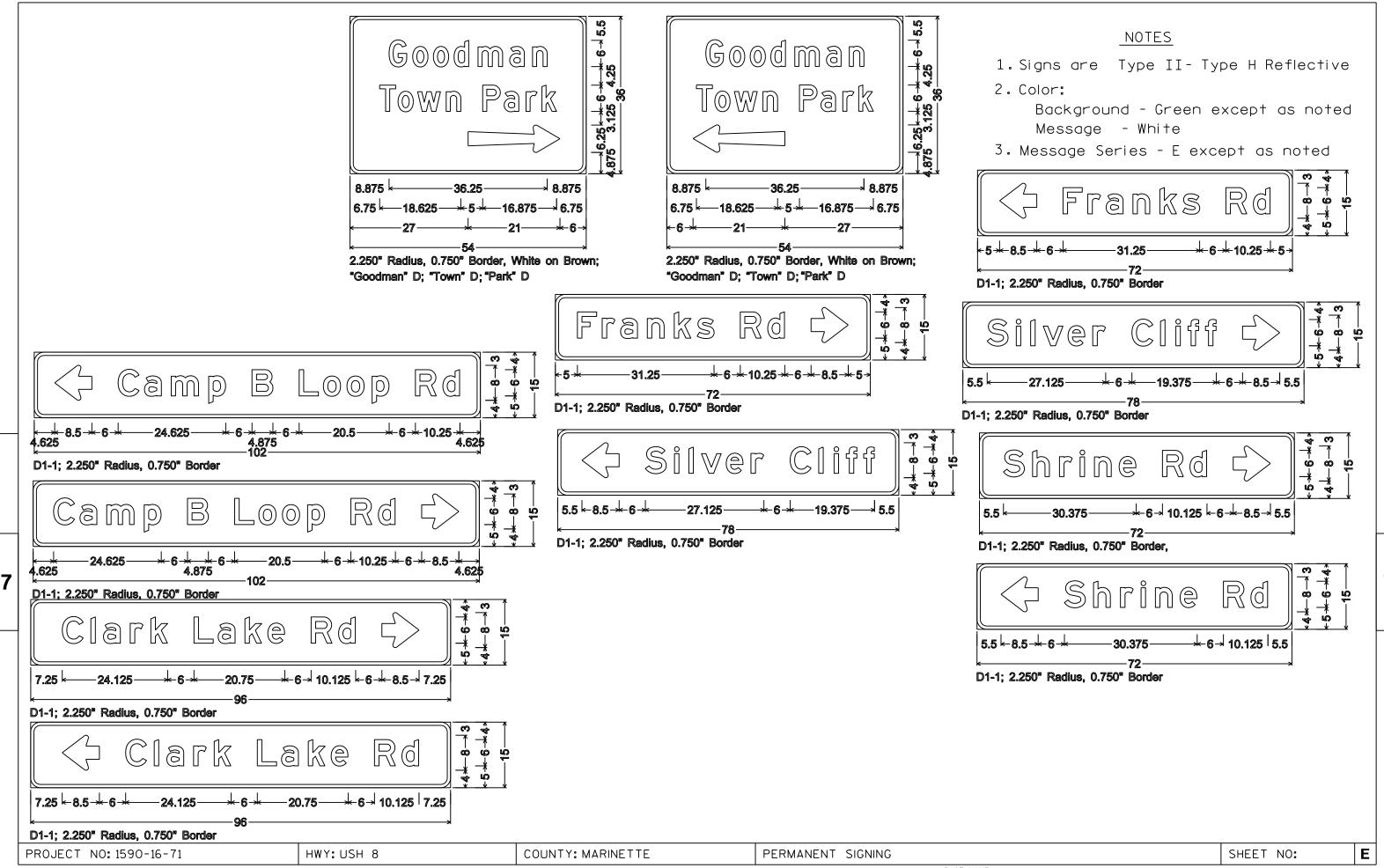
PLOT BY: \$\$...plotuser...\$\$ PLOT NAME:

PLOT SCALE: 19.332333:1.000000

Ε

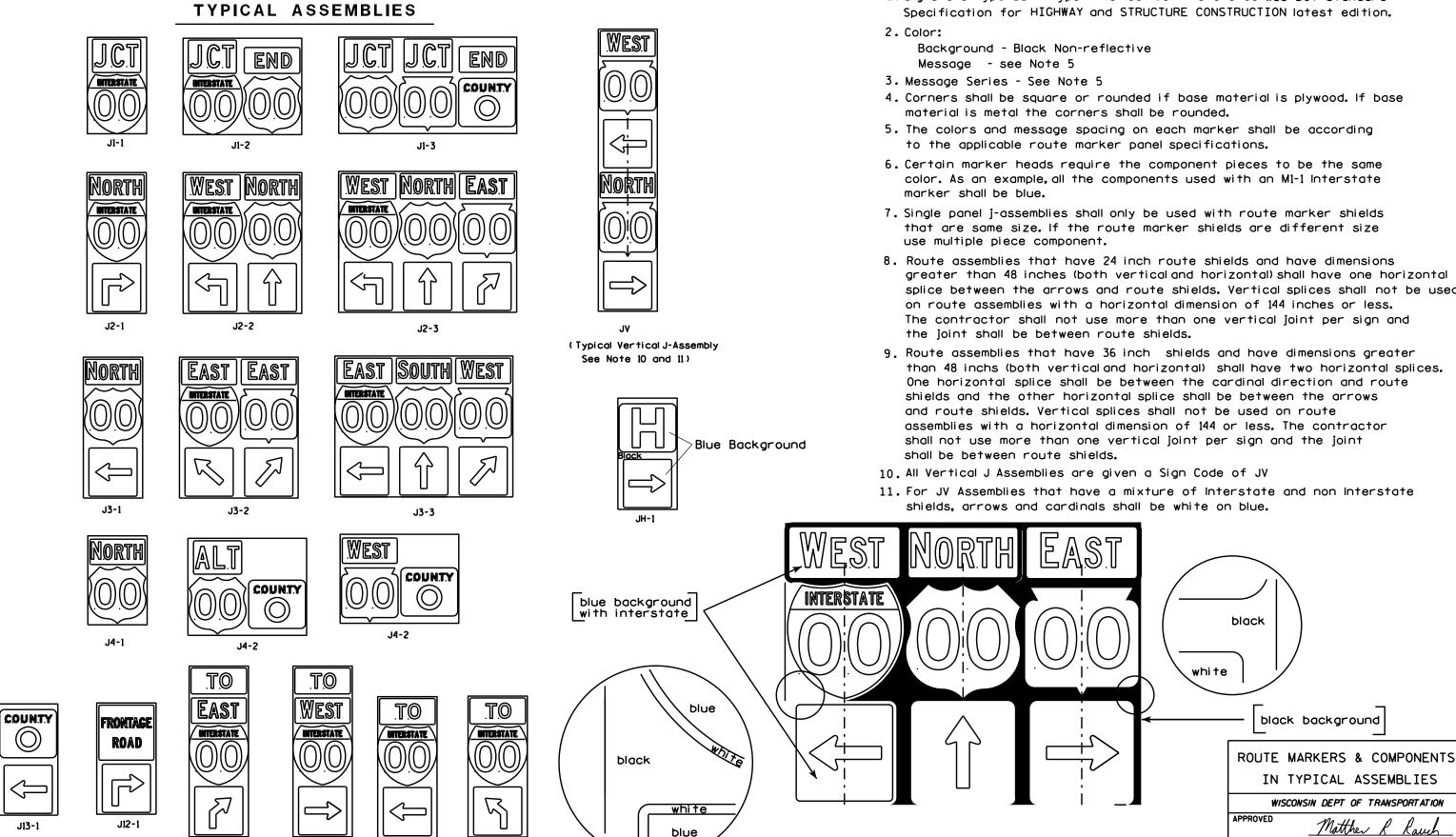


FILE NAME: C:\CAEfiles\Projects\tr\_d3\3381A816.DGN PLOT DATE: 09-FEB-2017 10:44 PLOT BY: \$\$...plotuser...\$\$ PLOT NAME: PLOT SCALE: 21.288048:1.000000 WISDOT/CADDS SHEET 42



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

areater than 48 inches (both vertical and horizontal) shall have one horizontal splice between the arrows and route shields. Vertical splices shall not be used on route assemblies with a horizontal dimension of 144 inches or less. The contractor shall not use more than one vertical joint per sign and the joint shall be between route shields.



PROJECT NO:

J32-1

J22-1

J23-1

J33-1

PLOT BY: mscsja

PLATE NO. \_\_A2-15.8

DATE 2/06/14

SHEET NO:

### URBAN ARFA



RURAL AREA (See Note 2)



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



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

White Edgeline Location

\*\* The existence of curb and gutter does not in itself mandate the vertical clearance illustrated. That height is typically measured where

there is sidewalk adjacent to the roadway or parking is permitted. In the absence of sidewalk vertical clearance is measured from the top of the curb. Offset of signs is measured from the flow line.

HWY:

\* 6 feet from edge of a paved shoulder or 12 feet from the edge of pavement (edge line location) or 2 feet from outside edge of gravel, whichever is greater unless directed by project engineer.

PLOT BY : mscj9h

#### GENERAL NOTES

- 1. Signs wider than 4 feet or 20 sq.ft or larger, shall be mounted on multiple posts. Refer to plate A4-4.
- 2. If signs are mounted on barrier wall, see A4-10 sign plate.
- 3. For expressways and freeways, mounting height is  $7'-3''(\pm)$  or 6'-3" (±) depending upon existence of a sub-sign.
- 4. Minimum mounting height for J assemblies (A2-1S) is  $7'-3''(\pm)$  or  $6'-3''(\pm)$ per urban or rural detail respectively.
- 5. Minimum mounting height for signs mounted on traffic signal poles is 5' - 3'' ( $\pm$ ).
- 6. Offset distance shall be consistent with existing signs or consistent throughout length of project.
- 7. The (+) tolerance for mounting height is 3 inches.
- 8. Folding signs shall be mounted at a height of 5'-3'' ( $\pm$ ) or as directd by the Engineer.
- 9. The Double Arrow sign (W12-1) shall be mounted at a height of 2'-3"  $(\pm)$ . The Chevron sign (W1-8), Roundabout Chevron panel (R6-4B), Enhanced Reference Markers, Clearance Markers (W5-52), Mile Markers (D10 series), In Road Object Markers (W5-54) & End of Road Markers (W5-56) shall be mounted at a height of 4'-3'' ( $\pm$ ).

#### POST EMBEDMENT DEPTH

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

TYPICAL INSTALLATION OF PERMANENT TYPE II SIGNS ON SINGLE POSTS

WISCONSIN DEPT OF TRANSPORTATION

SHEET NO:

APPROVED

for State Traffic Engineer

DATE 7/23/15

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

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

PROJECT NO:

PLOT DATE: 23-JUL-2015 15:21

COUNTY:

PLOT NAME :

PLOT SCALE: 99.237937:1.000000

WISDOT/CADDS SHEET 42



NOTES: 1. ALL MATERIAL TO BE APPROVED

BY ENGINEER PRIOR TO INSTALLATION

- 2. SEE SIGN PLATE A4-8 FOR SIGN HARDWARE REQUIREMENTS
- 3. 18 INCH X 18 INCH SQUARE BOX-OUTS MAY BE USED FOR INSTALLATIONS IN EXISTING CONCRETE OR ASPHALT LOCATIONS.



#### **ELEVATION VIEW**

DETAIL OF STEEL 2 X 2 SIGN POST IN BOX-OUT



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

HWY:



#### PLAN VIEW

COUNTY:

FOR NEW CONCRETE/ASPHALT INSTALLATIONS

SIGN POST BOX-OUTS A4-3B

WISCONSIN DEPT OF TRANSPORTATION

For State Traffic Engineer

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

SHEET NO:

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

PROJECT NO:

PLOT DATE: 27-JAN-2014 09:48

PLOT NAME :

PLOT BY: mscsja

PLOT SCALE: 13.659812:1.000000

APPROVED

WISDOT/CADDS SHEET 42

#### GENERAL NOTES

- 1. For 3 or 4 post installations, individual post spacing shall be greater than 3'-6".
- 2. See tables below for required number of posts.
- 3. For expressways and freeways, mounting height is 7'-3'' (±) or 6'-3'' (±) depending upon existence of sub-sign.
- 4. The (±) tolerance for mounting height is 3 inches.
- 5. Minimum mounting height for J assemblies (A2-1S) is 7'-3'' (±) or 6'-3'' (±) per urban or rural detail respectively.
- 6. Offset distance shall be consistent with existing signs or consistent throughout length of project.
- 7. Folding signs shall be mounted at a height of 5'-3" (±) or as directed by the engineer.
- 8. The Double Arrow sign (W12-1) shall be mounted at a height of 2'-3" (±). The Chevron sign (W1-8). Roundabout Chevron panel (R6-4B), Clearance Markers (W5-52), Mile Markers (D10 series), In Road Object Markers (W5-54) & End of Road Markers (W5-56) shall be mounted at a height of 4"-3" (±).
- \* 6 feet from edge of a paved shoulder or 12 feet from the edge of pavement (edge line location) or 2 feet from outside edge of gravel, whichever is greater unless directed by project engineer.
- \*\* The existence of curb and gutter does not in itself mandate the vertical clearance illustrated. That height is typically measured where there is sidewalk adjacent to the roadway or parking is permitted. In the absence of sidewalk vertical clearance is measured from the top of the curb. Offset of signs is measured from the flow line.
- \*\*\* See A4-3 sign plate for signs 4' or less in width and less than 20 S.F. in area.

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

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

48" DIAMOND WARNING SIGN

HWY:

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

COUNTY:

Outside Edge

of Gravel

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

SIGN SHAPE OTHER THAN (THREE POSTS REQUIR	
L	E
Greater than 120" less than 168"	12"

SIGN SHAPE OTHER THAN (FOUR POSTS REQUIRE	
L	E
168" and greater	12"

#### POST EMBEDMENT DEPTH

of Gravel

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

TYPICAL INSTALLATION OF TYPE II SIGNS ON MULTIPLE POSTS

Matther

SHEET NO:

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

PROJECT NO:

PLOT DATE: 23-JUL-2015 15:23

PLOT SCALE: 107.021305:1.000000

WISDOT/CADDS SHEET 42

PLOT NAME :

PLOT BY: mscj9h

WISCONSIN DEPT OF TRANSPORTATION APPROVED

For State Traffic Engineer

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



Two different fastening systems are shown for illustration purposes. On any individual sign, either one or the other system shall be used. Actual number of fasteners per sign varies with the sign area, but normally there are two. For a single post installation, all signs greater than 9 sq. ft. require the use of 3 fasteners.

ATTACHMENT OF SIGNS
TO POSTS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

Nather R Raw
For State Traffic Engineer

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

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

PROJECT NO:

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

PLOT DATE . 11-416-2016 11:35

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

SHEET NO:

| | |



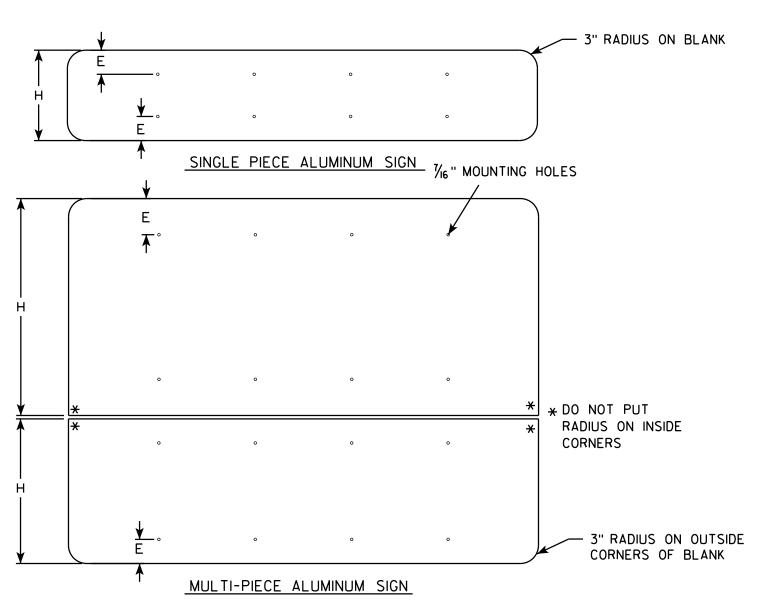
PROJECT NO: HWY: COUNTY: SHEET NO: FILE NAME : C:\CAEFiles\Projects\tr\_stdplate\A49.DGN PLOT DATE: 05-FEB-2015 17:09 PLOT BY: mscsja PLOT NAME : PLOT SCALE: 13.659812:1.000000

DATE 2/05/15

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

For State Traffic Engineer

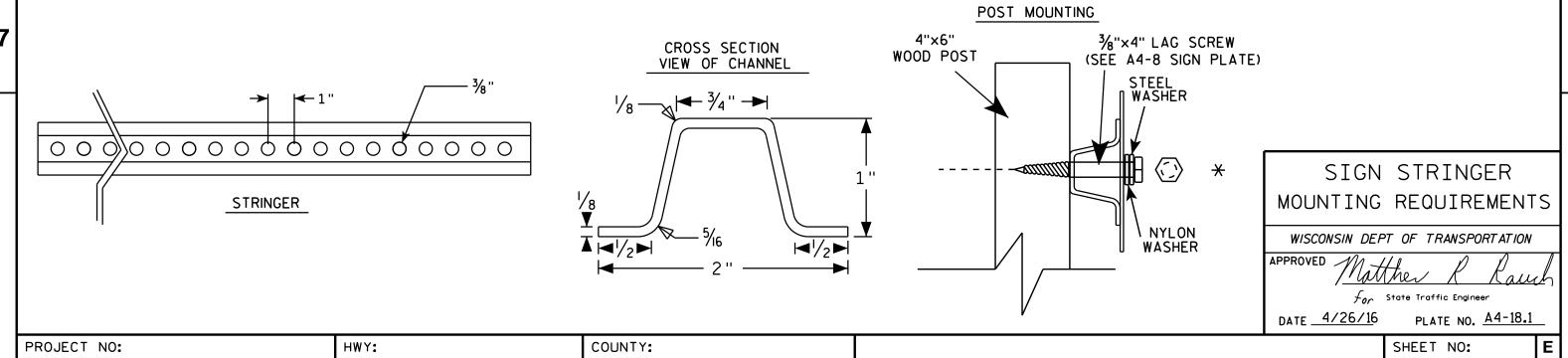




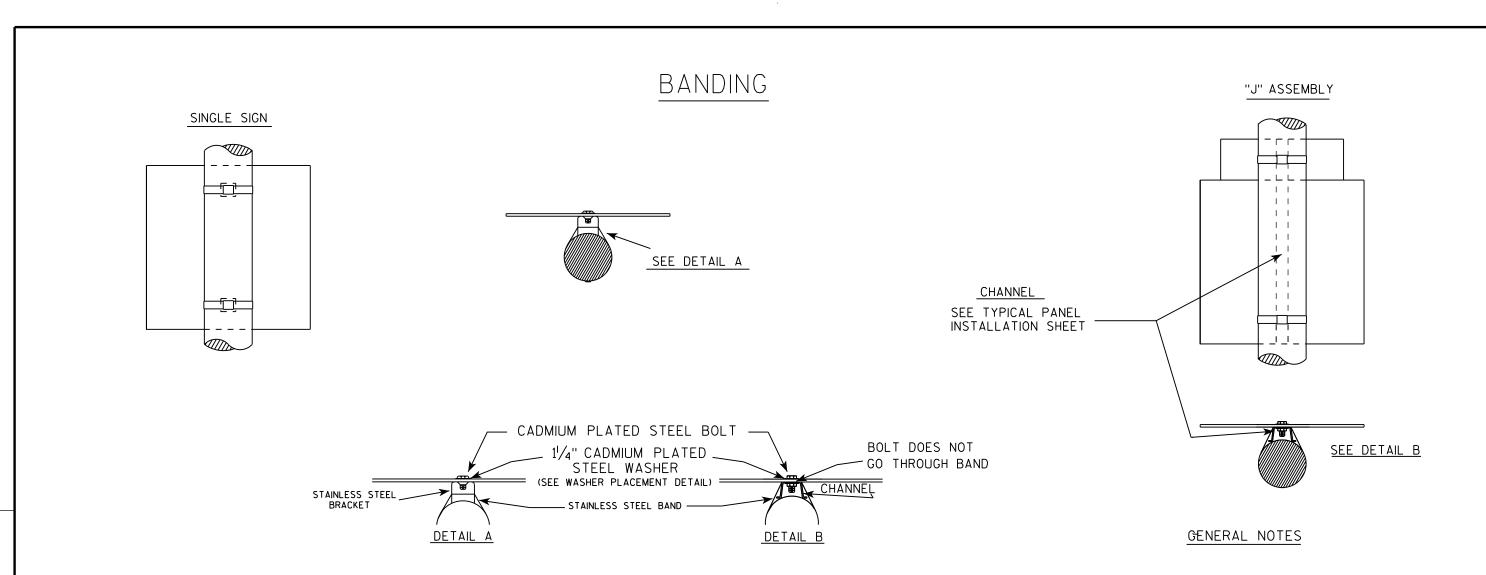
### GENERAL NOTES

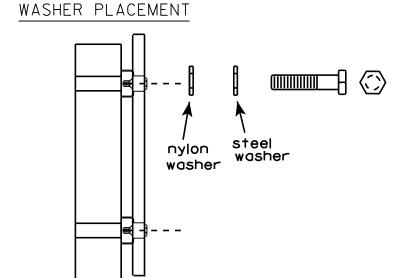
- ALL SIGNS OVER 60" IN WIDTH SHALL HAVE A 3" RADIUS ON THE OUTSIDE CORNERS OF THE ALUMINUM BLANK.
- MOUNTING HOLES SHALL BE  $\frac{7}{16}$ " DIAMETER.
- SEE CHART FOR HOLE SPACING REQUIREMENTS
- FOR SIGN PANELS WITH DIMENSION (H) 36" AND OVER, DIMENSION E SHALL BE 6"
- FOR SIGN PANELS WITH DIMENSION (H) UNDER 36", DIMENSION E SHALL BE 4"
- SIGN STRINGER MATERIAL SHALL CONSIST OF STEEL CHANNEL POST SECTIONS, WEIGHING 1.12 LBS/FT IN ACCORDANCE WITH SECTION 633.2.1 OF THE STANDARD SPECIFICATIONS FOR HIGHWAY AND STRUCTURE CONSTRUCTION.
- SEE SIGN PLATE A4-8 FOR SIGN STRINGER BOLTING REQUIREMENTS.

SIGN WIDTH	STRINGER WIDTH	POSTS	HOLE SPACING				NTING OLES			
78"	72"	2	16''	15''	31''	47''	63"			
84''	72"	2	17''	161/2"	331/2"	501/2"	6 <b>7</b> 1/21			
90"	<b>7</b> 2"	2	18''	18''	36''	54''	72''			
96"	90"	2	19''	191/2"	381/2''	571/2"	761/21			
102"	90"	2	20"	21''	41''	61''	81''			
108''	90"	2	21''	221/21	' 43 <sup>l</sup> / <sub>2</sub> ''	641/2"	851/21	1		
114''	108''	3	15''	12''	2 <b>7</b> ''	42"	5 <b>7</b> "	<b>7</b> 2"	87"	102"
120''	108''	3	16''	12''	28''	44''	60"	76"	92"	108''
126"	108''	3	17''	12''	29"	46''	63"	80"	97"	114''
132"	126''	3	18''	12''	30"	48"	66"	84"	102"	120''
138''	126''	3	19''	12''	31''	50"	69"	88"	107''	126"
144''	126''	3	20"	12''	32"	52"	72"	92"	112''	132"



PLOT BY: mscj9h





HWY:

WASHERS (ALL POSTS) -

COUNTY:

1-1/4" O.D. X3/8" I.D. X1/16" STEEL 1-1/4" O.D. X3/8" I.D. X .080 NYLON FOR ALL TYPE H SIGNS

PLOT BY: mscsja

- 1. Any sign over 3 feet in width shall use the V-Block banding method. See A5-10 standard plate.
- 2. Signs 3 feet or greater in height shall have three bracket bands installed. Signs less than 3 feet in height shall have two bracket bands installed.
- 3. Banding and assembly bracket shall be stainless steel. All bands shall be  $\frac{3}{4}$ " in width and 0.025" thickness.

STANDARD SIGN SIGN BANDING DETAILS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

DATE 8/16/13

SHEET NO:

State Traffic Engineer

FILE NAME : C:\CAEFiles\Projects\tr\_stdplate\A59.DGN

PROJECT NO:

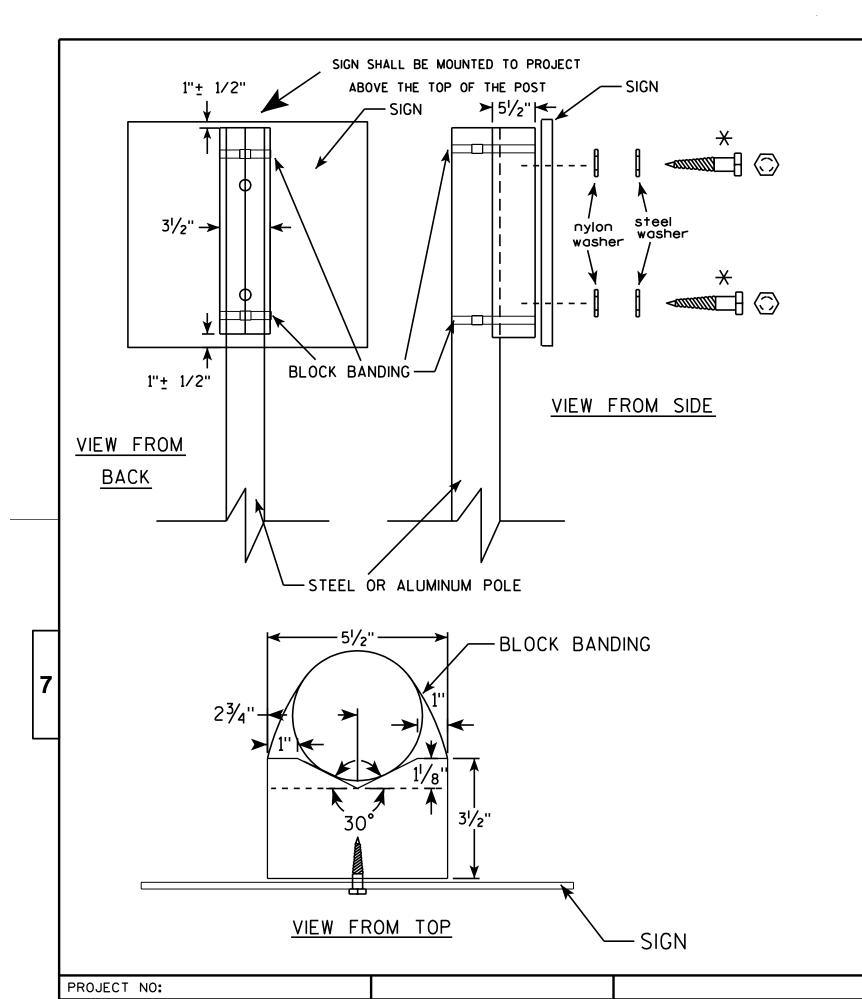
PLOT DATE: 16-AUG-2013 13:27

PLOT NAME :

PLOT SCALE: 33.740899:1.000000

WISDOT/CADDS SHEET 42

PLATE NO. A5-9.3



#### GENERAL NOTES

- 1. WOOD 4"X6" POST MATERIAL SHALL CONFORM TO 507.2.2 OF THE WISDOT STANDARD SPECIFICATIONS
- 2. BLOCK BANDING AND CLIPS SHALL BE STAINLESS STEEL, 3/4" WIDTH AND 0.025" THICKNESS
- 3. SIGNS 3' OR GREATER IN HEIGHT SHALL UTILIZE 3 BLOCK BANDS.

  SIGNS UNDER 3' IN HEIGHT SHALL UTILIZE 2 BLOCK BANDS
- 4. ACTUAL NUMBER OF FASTENERS PER SIGN VARIES WITH THE SIGN AREA, BUT NORNALLY THERE ARE TWO. FOR SIGNS GREATER THAN 9 S.F. 3 FASTENERS SHALL BE USED.
- 5. ALL SIGN MOUNTING BOLTS AND WASHERS SHALL BE EITHER:
  - a. Hot dip or mechanically galvanized in accordance with ASTM Designation: A 153, Class D, or
  - b. Cadmium plated in accordance with ASTM Designation: B 766 TYPE 3, Class 12, or
  - c. Electro-galvanized in accordance with ASTM Designation: B 633, TYPE III, SC 3.
- 6. ALL BOLTS SHALL HAVE HEXAGONAL HEADS.
- 7. STEEL WASHERS SHALL BE 11/4" O.D. X 3/8" I.D. X 1/16"
- 8. NYLON WASHERS SHALL BE  $1^{1}/_{4}$ " O.D. X  $3/_{8}$ " I.D. X .080 FOR TYPE H OR TYPE F FACE SIGN

X LAG BOLTS SHALL BE 3/8" X 21/2"

BLOCK BANDING DETAIL
( V-BLOCK OPTION )

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

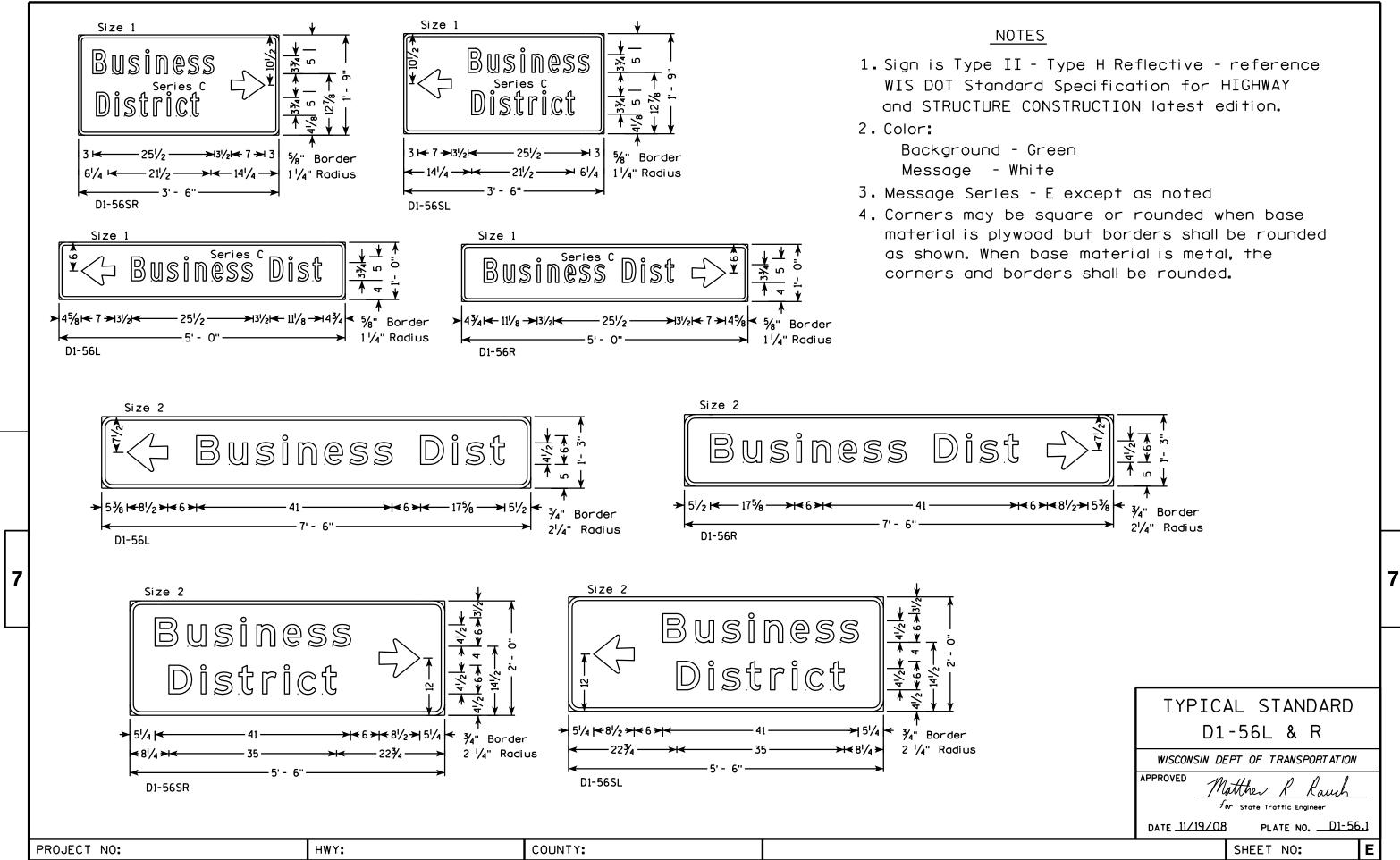
APPROVED

For State Traffic Engineer

DATE 7/12/07

PLATE NO. A5-10.1

SHEET NO:



FILE NAME : C:\Users\Projects\tr\_stdplate\D156.DGN

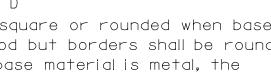
PLOT DATE: 10-DEC-2008 13:32

PLOT BY : ditjph

PLOT NAME :

PLOT SCALE: 17.988750:1.000000

WISDOT/CADDS SHEET 42



adjust spacing to achieve proper balance.



NOTES

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

2. Color:

Background - Brown Message - White

- 3. Message Series D
- 4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.

5. Substitute appropriate numerals and optically

Metric equivalent for this sign is:

1500 mm X 900 mm

	SIZE	Α	В	С	D	E	F	G	Н	I	J	K	L	М	N	0	Р	Q	R	S	T	U	٧	W	Х	Υ	Z	Area sq. ft.	Area m2
Ø.	1																												
	2	60	36	2 1/4		3/4	6	4	5 1/2	4 1/4	25	17		5	1	12												15.0	1.35
5.6	3																												
2,	4																												
- NO	5																												

\* See Note 5

STANDARD SIGN D5-63

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Chester J Spane for State Traffic Engineer DATE 3/23/99

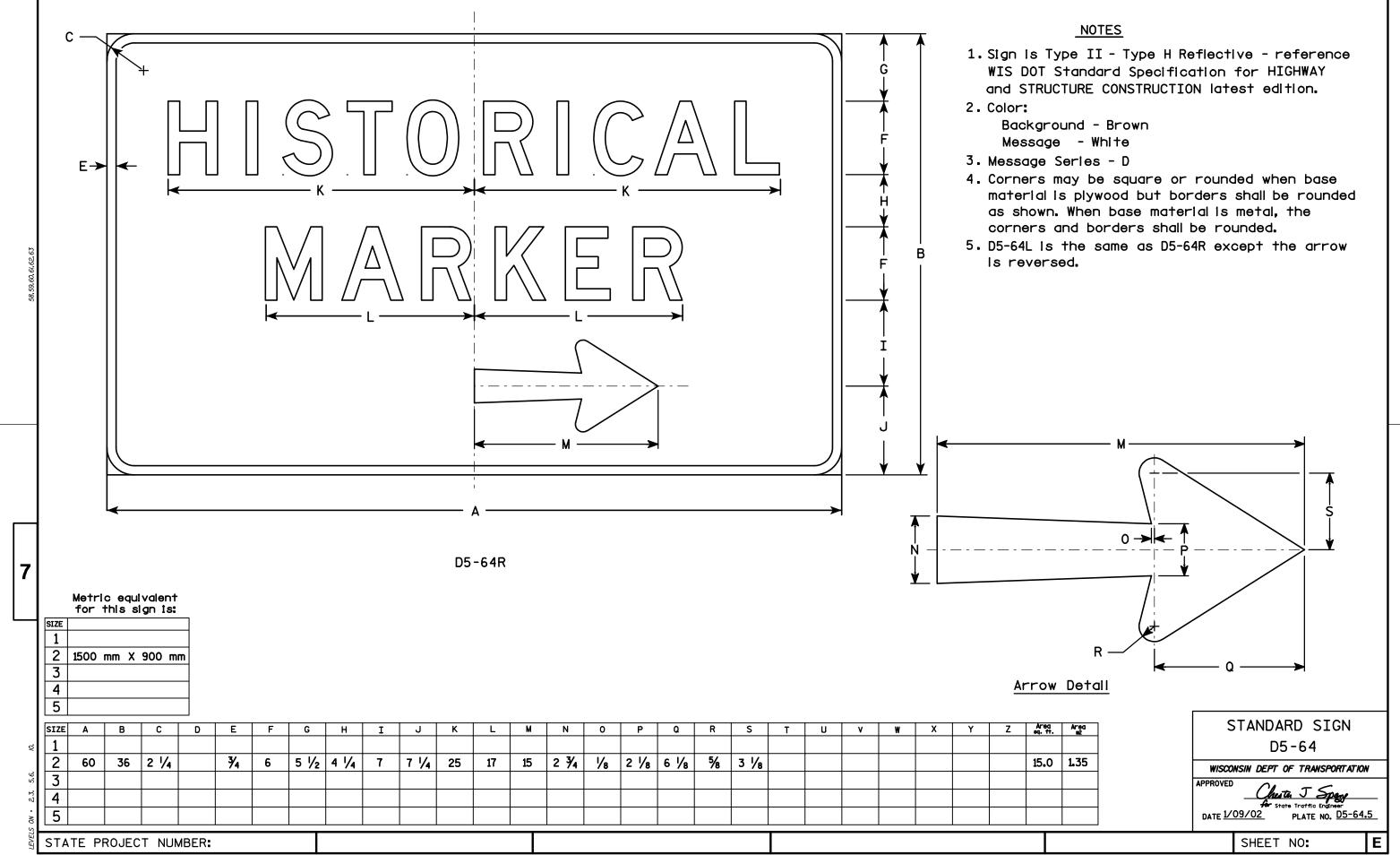
PLATE NO. D5-63.9

SHEET NO:

STATE PROJECT NUMBER:

D5-63

Ε



# 

HWY:

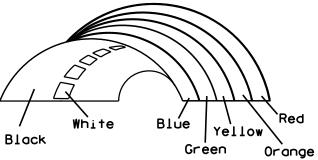
Background Colors of Symbol\*

Z F Z

A F X A

**₽** 4

\* VARIES



\*1/4" Black Border between each color of rainbow and border of rainbow

#### 

COUNTY:

NOTES

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

Background - White Message - (See Note 5)

- 3. Message Series (See Note 6)
- 4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
- 5. Border Blue

Line 1 - Red

Line 2 - Black

Line 3-5 - Blue

6. Line 1 - Dutch 8011L

Line 2 - Series E

Line 3-5 - Series C

7. Contractor shall provide and install a new post bracket in accordance with the I55-56B sign detail.

STANDARD SIGN I55-56

For State Traffic Engineer

DATE 4/27/11 PLATE NO. 15!

ATE 4/27/11 PLATE NO. 155-56.3

SHEET NO:

FILE NAME : C:\Users\PROJECTS\tr\_stdplate\I5556.DGN

PROJECT NO:

PLOT DATE: 27-APR-2011 10:05

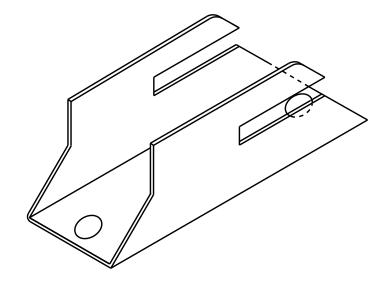
PLOT BY: mscj9h

PLOT NAME :

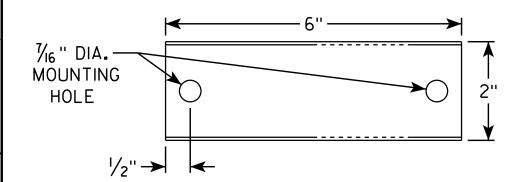
PLOT SCALE: 7.945391:1.000000

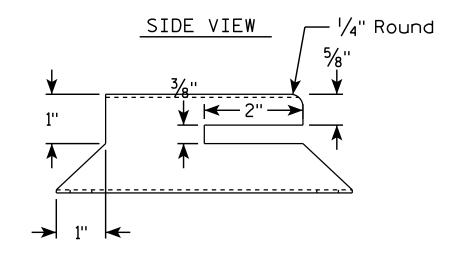
945391:1.000000 WISDOT/CADDS SHEET 42

## ISOMETRIC VIEW



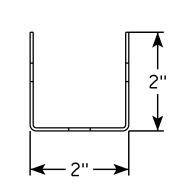
#### TOP VIEW





HWY:

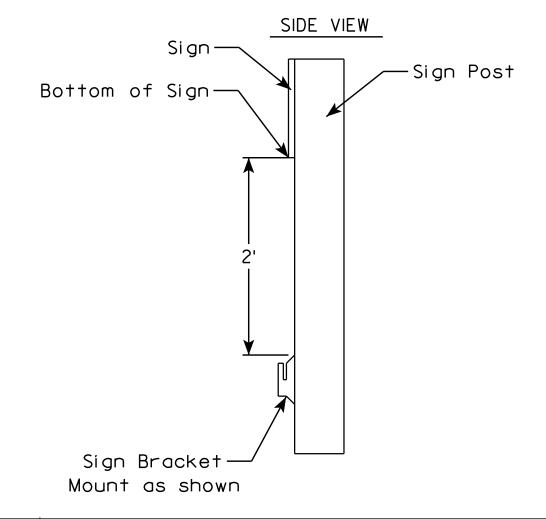
#### END VIEW



COUNTY:

#### NOTES

- Must be capable of permanent attachment to a wood or steel channel sign post utilizing the fastening hardware specified on the A4-8 sign plate.
- 2. Shall be entirely primed and painted with two coats of a black powder coated enamel paint.
- 3. Shall be made with 12 gauge steel, and incorporate no welds, no hinged components, no threaded lock-type components, and no parts which are loose or can be separated from the main body.
- 4. Shall have rounded edges with at least  $\frac{1}{8}$ " radii.
- 5. Shall not have unrounded and uncoated metaledges which can contact the back surface of the roll-up sign.
- 6. Top of bracket shall be mounted 2' below the bottom of the 155-56 sign.
- 7. Cost of bracket and fastening hardware shall be incidental to the 155-56 sign.



SHEET NO:

PROJECT NO:

PLOT BY : mscj9h

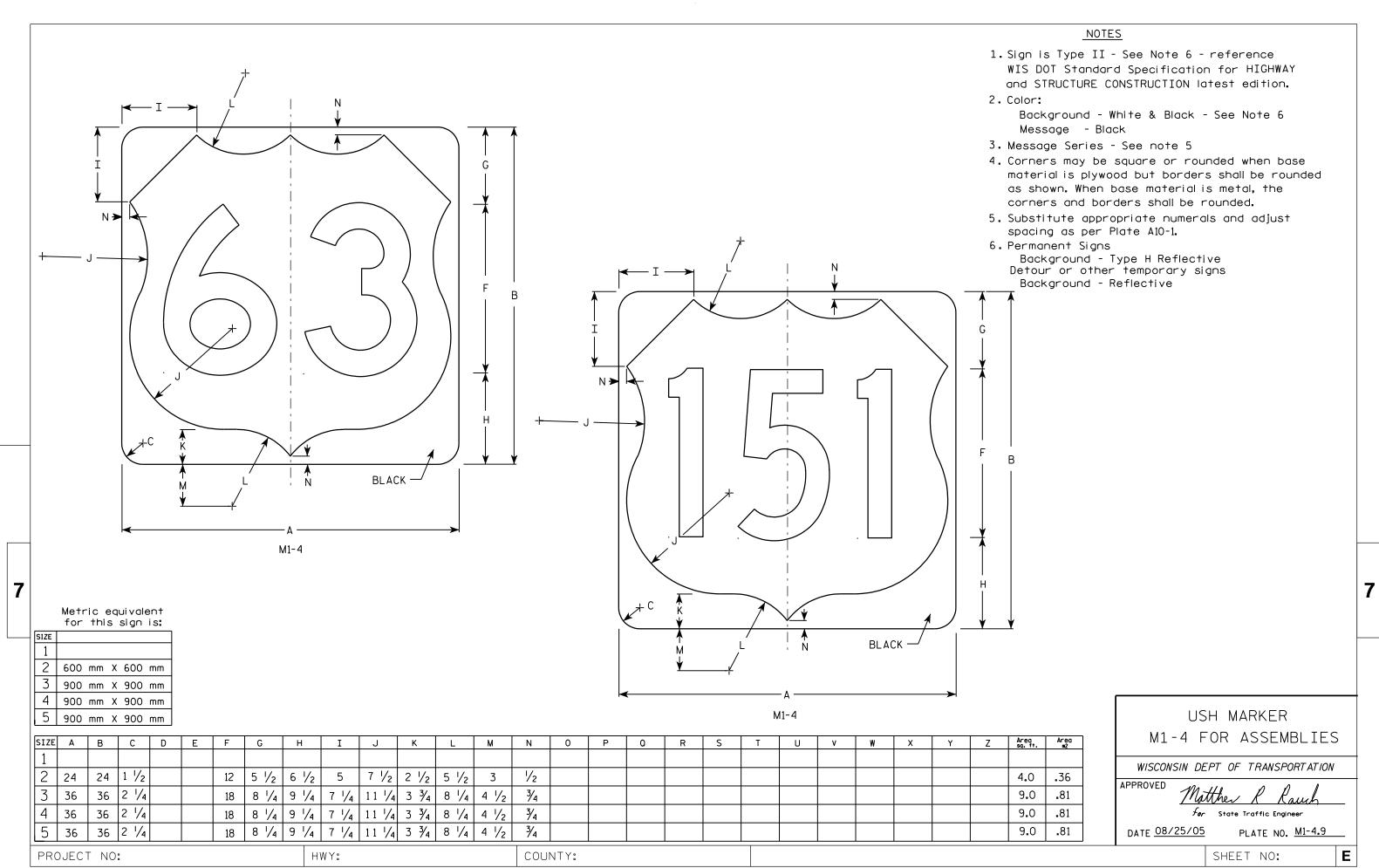
DATE 4/26/16

PLATE NO.155-56B.2

ROLLUP SIGN BRACKET

155-56B

WISCONSIN DEPT OF TRANSPORTATION



FILE NAME : C:\Users\Projects\tr\_stdplate\M14.DGN

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

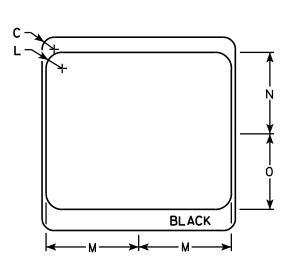
Background - White & Black - See Note 7 Message - Black

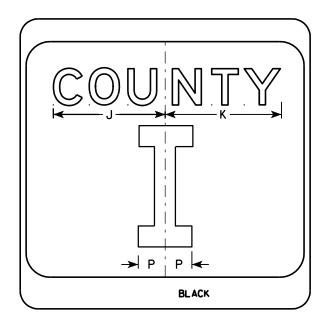
- 3. Message Series see Note 5
- 4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
- 5. Message Series E for 1 letter.

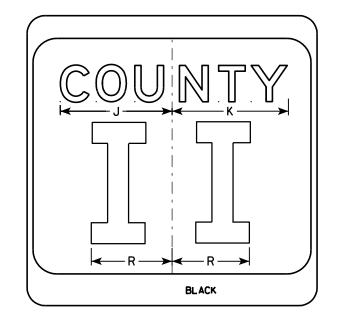
  Message Series D for 2 letters unless
  message is too big then Series C.

  Message Series C for 3 letters unless
  message is too big then Series B.
- 6. Substitute appropriate letters & optically center to achieve proper balance.
- 7. Permanent Signs

Background - Type H Reflective Detour or temporary Signs Background - Reflective







SIZE	Α	В	С	D	E	F	G	Н	I	J	K	٦	М	N	0	Р	0	R	S	T	U	٧	W	X	Y	Z	Area sq. ft.
1																											
2	24		1 1/2			10	3	5 1/8	4 1/8	9 1/4	9 %	2	11 1/2	10 1/8	9 3/8	2 1/4		6 %									4.0
3	36		2 1/4			16	4	7 %	5 %	12 1/4	12 1/8	3	17 1/8	15 1/4	14	3 %		10									9.0
4	36		2 1/4			16	4	7 5/8	5 %	12 1/4	12 1/8	3	17 1/8	15 1/4	14	3 %		10									9.0
5	36		2 1/4			16	4	7 5/8	5 %	12 1/4	12 1/8	3	17 1/8	15 1/4	14	3 3/8		10									9.0
PRO	IFCT	NO:	·		·	·	Luv	VY:		·	·		COUN	TV•		·				·	·		·				

CTH MARKER
M1-5A FOR ASSEMBLIES

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

Matther K Rauch

Forstate Traffic Engineer

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

SHEET NO:

**BLACK** 

M1-5A

PLOT NAME :

PLOT SCALE: 5.959043:1.000000

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

Background - See note 5 Message - See note 5

- 3. Message Series C
- 4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
- 5. M2-1 Background White

Message - Black

MB2-1 Background - Blue

Message - White

MK2-1 Background - Green

Message - White

MM2-1 Background - White

Message - Green

MN2-1 Background - Brown

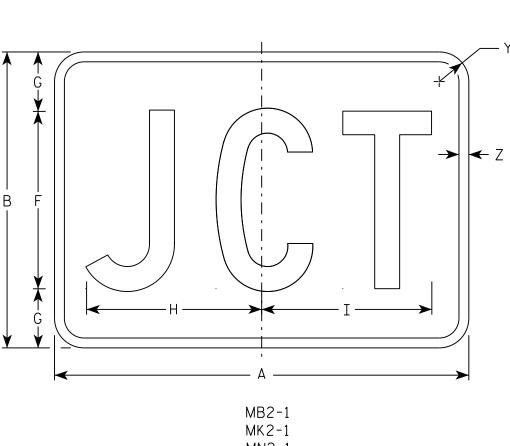
Message - White

MP2-1 Background - White

Message - Blue

MR2-1 Background - Brown

Message - Yellow



MN2-1

MR2-1

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

COUNTY:

В

STANDARD SIGN

M2 - 1

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

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

DATE 10/15/15

PLATE NO. M2-1.12 Ε

SHEET NO:

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

PROJECT NO:

M2-1

HWY:

MM2-1

MP2-1

PLOT DATE . 01-DEC-2015 17:54

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

PLOT SCALE • 4 864603•1 000000







MP3-1









HWY:



### NOTES

- 1. All Signs Type II Type H
- 2. Color:

Background - See note 5 Message - See note 5

- 3. Message Series C
- 4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.

5. M3-1 thru M3-4 Background - White Message - Black

MB3-1 thru MB3-4 Background - Blue

Message - White

MK3-1 thru MK3-4 Background - Green

Message - White

MM3-1 thru MM3-4 Background - White

Message - Green

MN3-1 thru MN3-4 Background - Brown

Message - White

MP3-1 thru MP3-4 Background - White

Message - Blue

6. Note the first letter of each direction is larger than the remainder of the message.

SIZE	Α	В	С	D	E	F	G	Н	I	J	К	L	М	N	0	Р	0	R	S	Т	U	V	W	Х	Y	Z	Area sq. ft.
1																											
2	24	12	1 1/8	3/8	3/8	6	7	2 1/4	2 3/4	10 1/4	7 1/8	8 3/8	10 1/4	9 3/4	8 3/4			1 1/2									2.00
3	36	18	1 1/8	3/8	1/2	9	10	3 3/4	4 1/4	14 3/8	12	12 1/8	14	14 1/8	13			1 1/2									4.5
4	36	18	1 1/8	3/8	1/2	9	10	3 3/4	4 1/4	14 3/8	12	12 1/8	14	14 1/8	13			1 1/2									4.5
5	36	18	1 1/8	3/8	1/2	9	10	3 3/4	4 1/4	14 3/8	12	12 1/8	14	14 1/8	13			1 1/2									4.5

COUNTY:

STANDARD SIGNS M3-1 thur M3-4 **SERIES** 

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

DATE 10/15/15 PLATE NO. M3-1.14

Ε

SHEET NO:

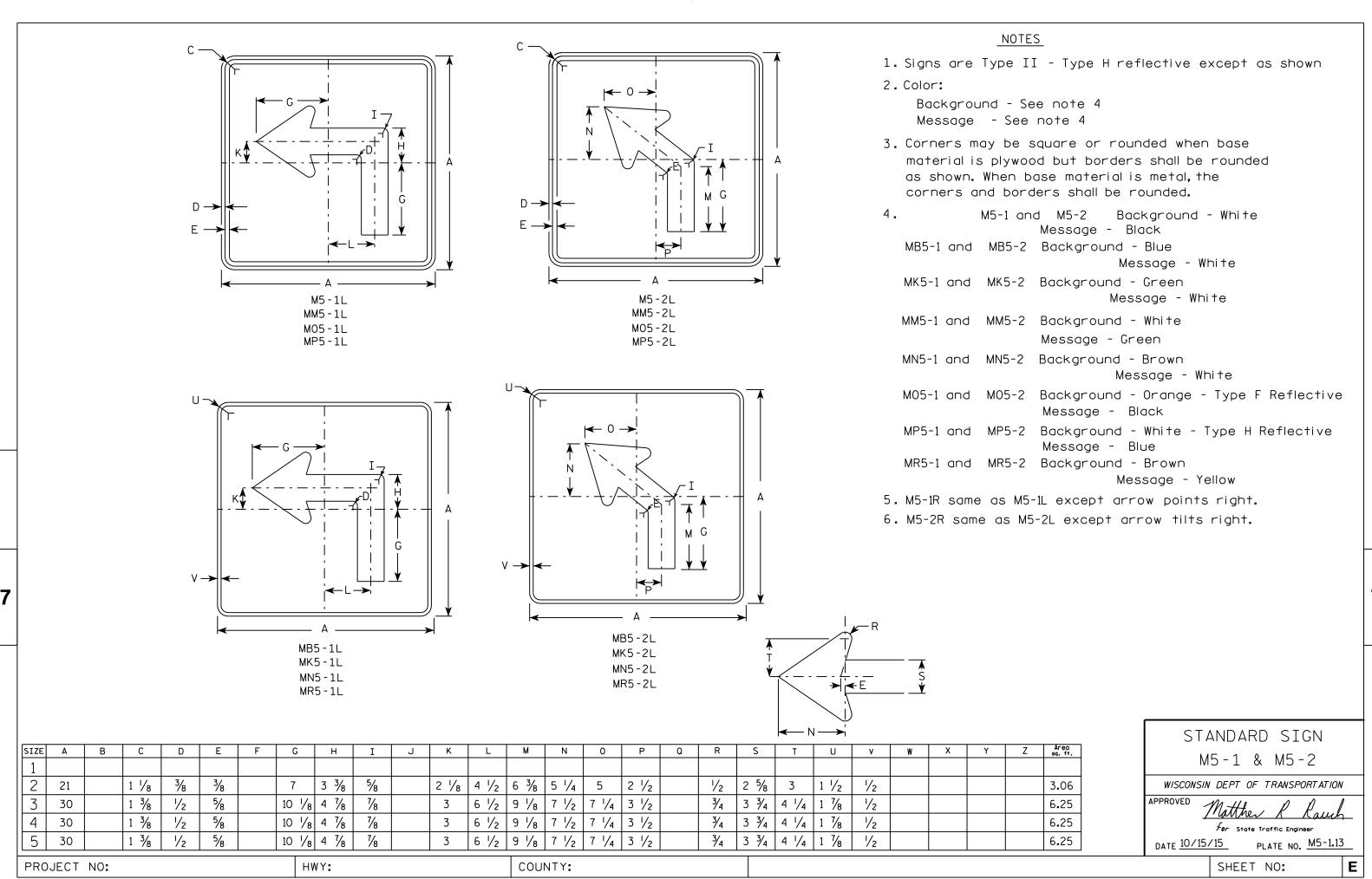
FILE NAME · C·\CAFfiles\Projects\tr stdnlote\M31 DCN

PROJECT NO:

PLOT DATE . 01-DEC-2015 17:54

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

PLOT SCALE . 11 675051.1 000000

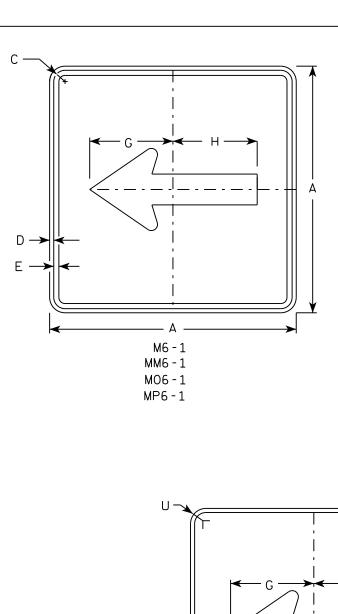


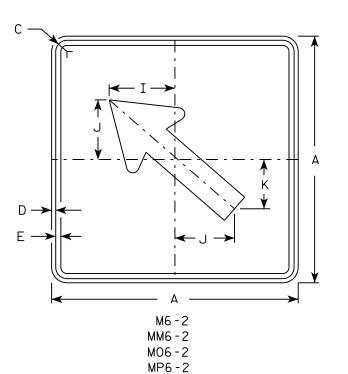
FILE NAME . C.\CAFfiles\Projects\tr stdolote\M51 DCN

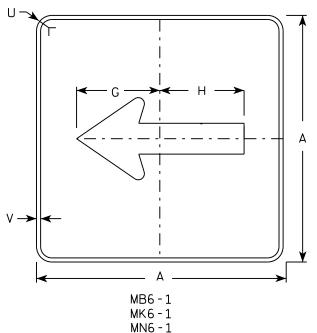
PLOT DATE . 01-DEC-2015 18:07

PINT RY . \$\$ DIOTUSET \$\$ PINT NAMF :

PLOT SCALE . 11 675051.1 000000

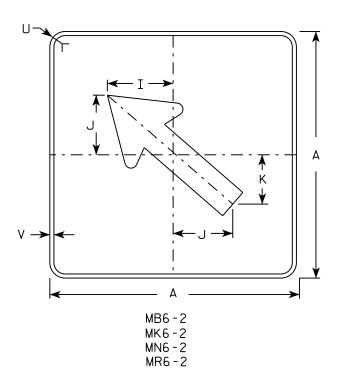






MR6-1

HWY:



#### NOTES

- 1. Signs are Type II Type H except as Shown
- 2. Color:

Background - See note 4 Message - See note 4

- 3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
- 4. M6-1 and M6-2 Background White

Message - Black

MB6-1 and MB6-2 Background - Blue

Message - White

MK6-1 and MK6-2 Background - Green

Message - White

MM6-1 and MM6-2 Background - White

Message - Green

MN6-1 and MN6-2 Background - Brown

Message - White

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

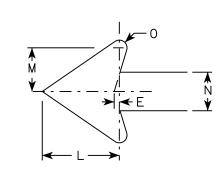
Message - Black

MP6-1 and MP6-2 Background - White

Message - Blue

MR6-1 and MR6-2 Background - Brown

Message - Yellow



SIZE	Α	В	С	D	E	F	G	Н	I	J	K	L	М	N	0	Р	٥	R	S	T	U	٧	W	Х	Y	Z	Area sq. ft.
1 1																											
2	21		1 1/8	3/8	3/8		7 1/2	7 1/8	5 %	5	4 1/4	5 1/4	3	2 %	1/2						1 1/2	1/2					3.06
3	30		1 3/8	1/2	5/8		10 3/4	10 1/4	8	7 1/4	6	7 1/2	4 1/4	3 3/4	3/4						1 1/8	1/2					6.25
4	30		1 3/8	1/2	5/8		10 3/4	10 1/4	8	7 1/4	6	7 1/2	4 1/4	3 3/4	3/4						1 1/8	1/2					6.25
5	30		1 3/8	1/2	5/8		10 3/4	10 1/4	8	7 1/4	6	7 1/2	4 1/4	3 3/4	3/4						1 1/8	1/2					6.25

COUNTY:

STANDARD SIGN M6-1 & M6-2 SERIES

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

Matthew & Rawl For State Traffic Engineer

Ε

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

SHEET NO:

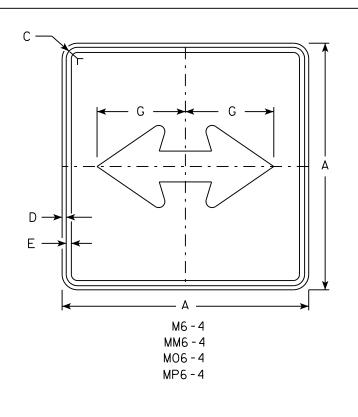
FILE NAME · C·\CAFfiles\Projects\tr stdplote\M61 DCN

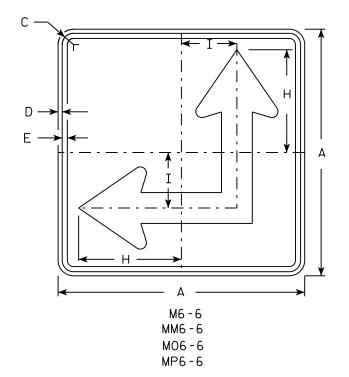
PROJECT NO:

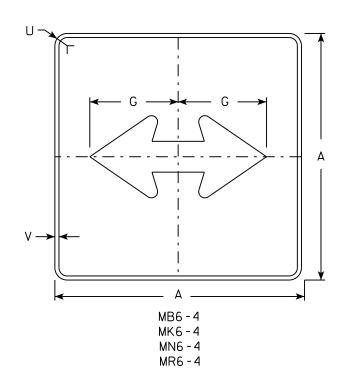
PLOT DATE . 01-DEC-2015 17:57

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

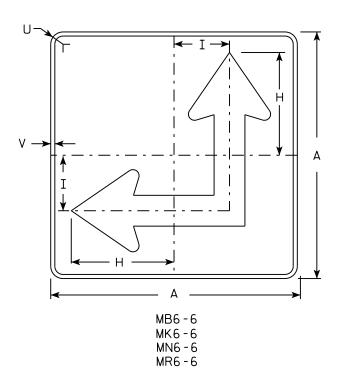
PLOT SCALE . 11 675051.1 000000







HWY:



#### NOTES

- 1. Signs are Type II Type H except as Shown
- 2. Color:

Background - See Note 4 Message - See Note 4

- 3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
- 4. M6-4 and M6-6 Background White Message - Black

MB6-4 and MB6-6 Background - Blue

Message - White

MK6-4 and MK6-6 Background - Green

Message - White

and MM6-6 Background - White MM6-4

Message - Green

MN6-4 and MN6-6 Background - Brown

Message - White

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

Message - Black

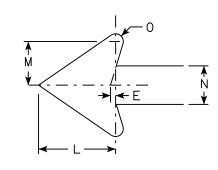
MP6-4 and MP6-6 Background - White

Message - Blue

MR6-4 and MR6-6 Background - Brown

Message - Yellow

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



SIZE	Α	В	С	D	E	F	G	Н	I	J	K	L	М	N	0	Р	a	R	S	T	U	٧	W	X	Y	Z	Area sq. ft.
1																											
2	21		1 1/8	3/8	3/8		7 1/2	8 3/4	4 1/4			5 1/4	3	2 5/8	1/2						1 1/2	1/2					3.06
3	30		1 3/8	1/2	5/8		10 3/4	12 1/2	6 3/4			7 1/2	4 1/4	3 3/4	3/4						1 1/8	1/2					6.25
4	30		1 3/8	1/2	5/8		10 3/4	12 1/2	6 3/4			7 1/2	4 1/4	3 3/4	3/4						1 1/8	1/2					6.25
5	30		1 3/8	1/2	5/8		10 3/4	12 1/2	6 3/4			7 1/2	4 1/4	3 3/4	3/4						1 1/8	1/2					6.25
																											==

COUNTY:

STANDARD SIGN M6-4 & M6-6 SERIES

WISCONSIN DEPT OF TRANSPORTATION

SHEET NO:

APPROVED

DATE 10/15/15

PLATE NO. M6-4.10 Ε

PLOT DATE . 01-DEC-2015 17.58

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

PLOT SCALE . 11 675051.1 000000

PROJECT NO:

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

Background - See note 5 Message - See note 5.

- 3. Message Series Modified E
- 4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
- 5. The sign will be color coded by numerical designation Numeral \*1 Brown

2 Type H Reflective White

3 Reflective Yellow

Exact color descriptions will be furnished upon request.

Metric equivalent for this sign is:

SIZE					
1					
2	600	mm	Х	600	mn
3					
4					
5					

3

Α 24 1 1/8 1/2 3 2 3 1 1/2 1 3/8 8 1/8 11 1/4 2 7/8 16 1/4

COUNTY:

STANDARD SIGN MR1-99

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

DATE 10/18/05

PLATE NO. MR1-99.5

SHEET NO:

FILE NAME : C:\Users\Projects\tr\_stdplate\MR199.DGN

HWY:

PLOT DATE: 18-OCT-2005 15:42

PLOT BY : DITJPH

PLOT NAME :

PLOT SCALE: 4.212325:1.000000

4.0

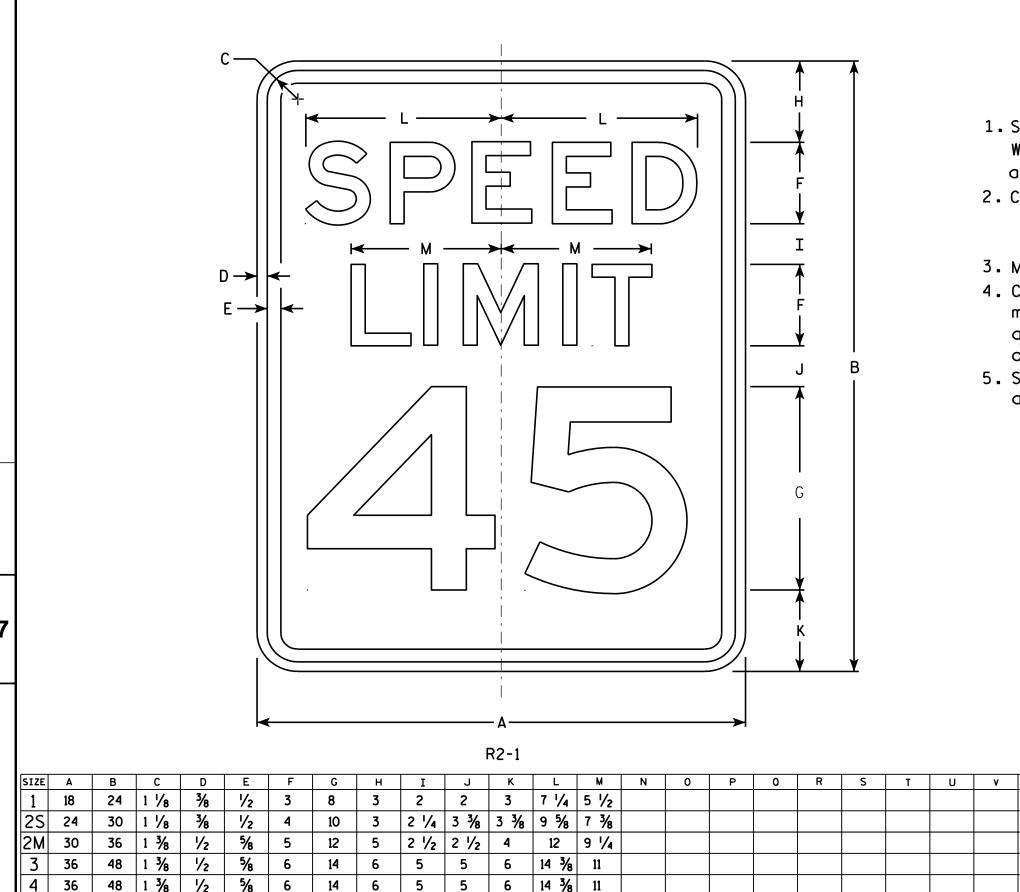
0.36

NOTES 1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition. 2. Color: Background - Red Message - White 3. Message Series - C R1-1 SIZE A STANDARD SIGN 30 5/8 10 12 1/2 45° 12 3/4 5.18 2S 30 5/8 12 1/2 45° 12 3/4 10 5.18 R1-1 2M 36 3/4 12 15 45° 15 % 7.46 3/4 15 3/8 12 45° 36 15 7.46 WISCONSIN DEPT OF TRANSPORTATION 45° 20 1/2 48 16 20 13.25 APPROVED Matthew & Kauch 5 48 16 20 45° 20 1/2 13.25 3/8 7 3/4 45° 7 3/4 1.86 18 6 For State Traffic Engineer 12 1/4 4 45° 5 1/8 0.78 DATE <u>11/12/15</u> PLATE NO. \_\_\_\_\_R1-1.13 COUNTY: SHEET NO: PROJECT NO: HWY: PLOT SCALE • 4 378143•1 000000

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

PLOT DATE . 01-DEC-2015 18:07

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



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

COUNTY:

20

HWY:

6

### NOTES

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

Background - White Message - Black

- 3. Message Series E
- 4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal. the corners and borders shall be rounded.
- 5. Substitute appropriate numerals and optically adjust spacing to achieve proper balance.

3.0

5.0

7.5

12.0

12.0

20.0

STANDARD SIGN R2-1

WISCONSIN DEPT OF TRANSPORTATION APPROVED

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

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

SHEET NO:

2 1/4

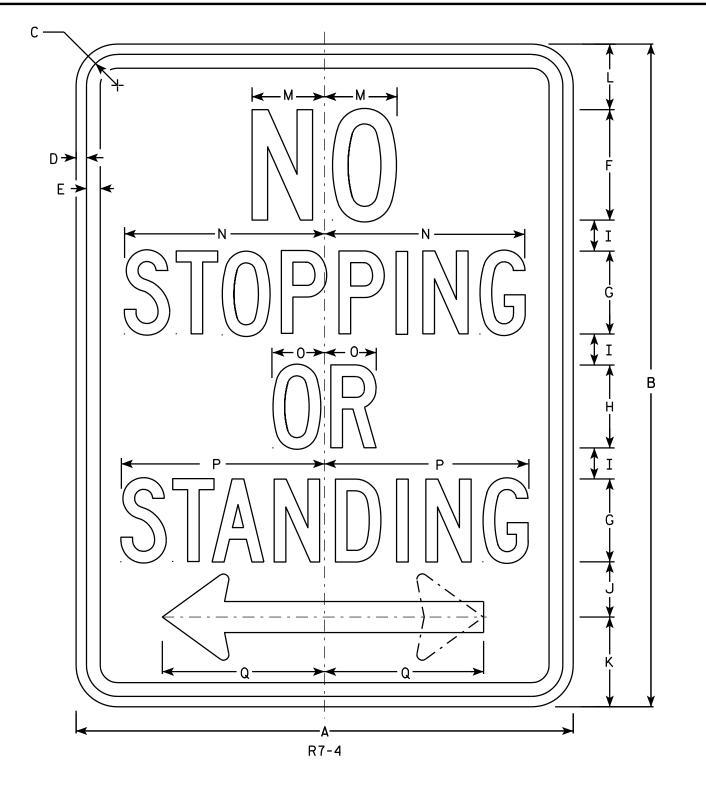
60

5

48

PROJECT NO:

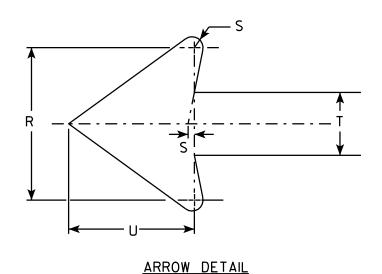
PLOT NAME :



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

Background - White Message - Red

- 3. Message Series C
- 4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
- 5. R7-4L (left arrow) R7-4R (right arrow) R7-4D (double arrow)



SIZE	Α	В	С	D	E	F	G	Н	I	J	K	L	М	N	0	Р	0	R	S	T	J	٧	₩	X	Y	Z	Area sq. ft.
1	12	18	1 1/8	3/8	3/8	3	2	2	1	1 1/2	2 1/2	2	2	4 %	1 1/4	4 1/8	3 %	1 3/4	1/8	3/4	1 1/2						1.5
25	18	24	1 1/8	3/8	1/2	4	3	3	1 1/8	2	3 1/4	2 3/8	2 %	7 1/4	1 1/8	7 3/8	5 %	2 %	1/4	1 1/8	2 1/4						3.0
2M	24	30	1 1/8	3/8	1/2	5	4	3	1 1/2	3	4	2 1/2	3 %	10	2 1/2	10 1/4	7 3/4	3 1/2	1/4	1 1/2	3						5.0
3	24	30	1 1/8	3/8	1/2	5	4	3	1 1/2	3	4	2 1/2	3 %	10	2 1/2	10 1/4	7 3/4	3 1/2	1/4	1 1/2	3						5.0
4																											
5																											

COUNTY:

STANDARD SIGN R7-4

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

for State Traffic Engineer

DATE 3/31/2011

DII PLATE NO. R7-4.8
SHEET NO:

FILE NAME : C:\Users\PROJECTS\tr\_stdplate\R74.DGN

HWY:

PROJECT NO:

PLOT DATE: 31-MAR-2011 10:10

PLOT BY: mscsja

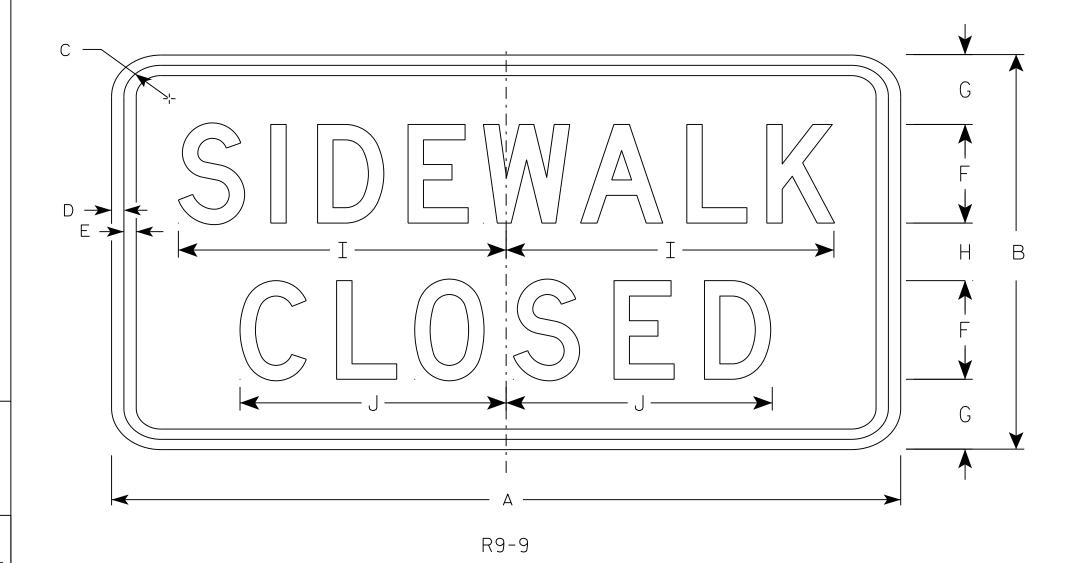
PLOT NAME :

PLOT SCALE: 3.476110:1.000000

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

Background - White Message - Black

- 3. Message Series C
- 4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
- 5. Use Size 2 for Sidewalks. Use Size 3 for Paths and Trails.



SIZE A 2S 24 1 3/4 1/2 2 1/8 1 3/4 10 1/2 12 3 8 1/8 2.0 24 1 3/4 1/2 2 1/8 1 3/4 8 1/8 12 10 2.0 1 3/4 3 1/2 30 18 1/2 1/2 3 | 12 1/2 | 10 1/4 3.75

COUNTY:

STANDARD SIGN R9-9

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

Marther R Ray

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

SHEET NO: R9-9.6

Ε

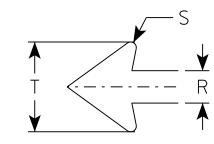
HWY:

PROJECT NO:

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

Background - White Message - Black

- 3. Message Series C except Size 1 is Series D
- 4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
- 5. Use Size 2 for Sidewalks. Use Size 3 for Paths and Trails.



R9-11

SIZE	Α	В	С	D	E	F	G	Н	I	J	K	L	М	N	0	Р	O	R	S	Т	U	V	W	Х	Υ	Z	Area sq. ft.
1																											
25	24	12	1 1/8	3/8	3/8	1 1/2	1 1/2	1 1/2	9 3/4	5/8	1 1/2	7 %	3 1/2	9 1/4	6 %	5 1/8		1	1/8	2 3/4							2.0
2M	24	12	1 1/8	3/8	3/8	1 1/2	1 1/2	1 1/2	9 3/4	5/8	1 1/2	7 %	3 1/2	9 1/4	6 %	5 1/8		1	1/8	2 3/4							2.0
3	30	15	1 1/8	3/8	1/2	2	1 1/2	1 1/2	13	3/4	2	10 1/4	4 5/8	12 3/8	8 1/8	6 1/8		1 1/4	1/4	3 %							3.125
4																											
5																											

COUNTY:

STANDARD SIGN R9-11

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

For 3

PLATE NO. R9-11.3

SHEET NO:

FILE NAME : C:\CAEfiles\Projects\tr\_stdplate\R911.DGN

HWY:

PROJECT NO:

 $D \rightarrow$ 

PLOT DATE: 01-DEC-2016 11:45

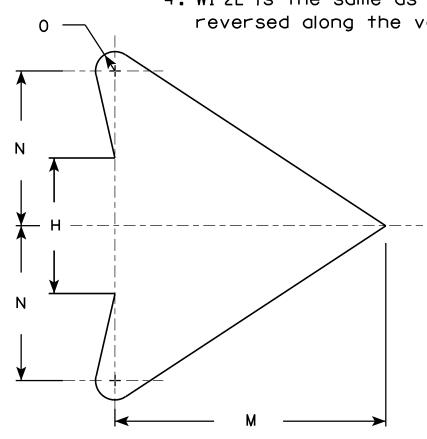
PLOT BY: \$\$...plotuser...\$\$ PLOT NAME:

PLOT SCALE: 5.927195:1.000000

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

Background - Yellow Message - Black

- 3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
- 4. W1-2L is the same as W1-2R except the arrow is reversed along the vertical centerline.



								W	1-2R													<u> </u>	11011	DLIA	<u></u>		
SIZE	Α	В	С	D	E	F	G	н	I	J	К	L	M	N	0	Р	0	R	S	Т	U	v	W	×	Y	Z	Area sq. ft.
1	24		1 1/8	3/8	1/2		8 1/4	3 1/2	4 1/2	1 3/4	2 3/8	7 1/4	7	4	1/2												4.0
25	30		1 3/8	1/2	5/8		10 1/4	4 3/8	5 %	2 1/4	3	9 1/8	8 3/4	5	5/8												6.25
2M	36		1 %	5/8	3/4		12 3/8	5 1/4	6 3/4	2 %	3 1/2	10 1/8	10 1/2	6	3/4												9.0
3	36		1 5/8	5/8	3/4		12 3/8	5 1/4	6 3/4	2 %	3 1/2	10 1/8	10 1/2	6	3/4												9.0
4	36		1 5/8	5/8	3/4		12 3/8	5 1/4	6 3/4	2 %	3 1/2	10 1/8	10 1/2	6	3/4												9.0
5	48		2 1/4	3/4	1		16 1/2	7	9	3 1/2	4 5/8	14 1/2	14	8	1												16.0
					•	·		•	•									•					•				•

COUNTY:

STANDARD SIGN W1-2

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

Matther R Rauch For State Traffic Engineer

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

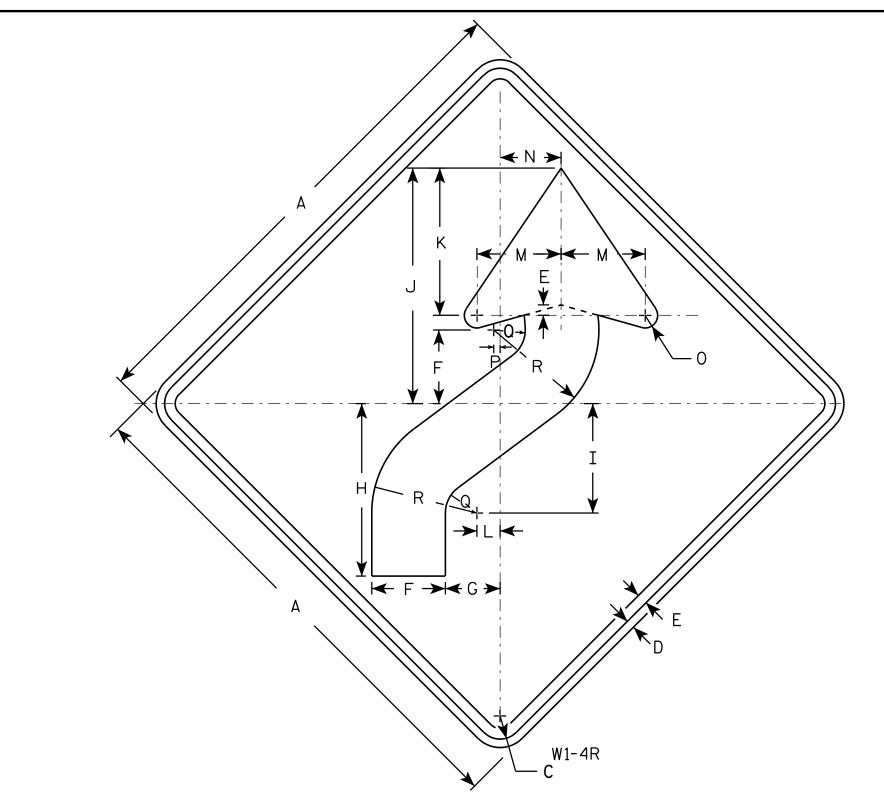
PLATE NO. W1-2.10

SHEET NO:

PROJECT NO:

**←** H →

HWY:



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

Background - Yellow Message - Black

- 3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
- 4. W1-4L is the same as W1-4R except the arrow is reversed along the vertical centerline.

3 1/2 2 5/8 8 1/4 5 1/4 11 1/4 5/8 1/4 1 1/2 5 24 1 1/8 4.0 25 3 5/8 3/4 3/8 1 1/8 6 1/4 30 4 3/8 3 1/4 10 1/4 6 1/2 14 8 3/4 1 3/8 6.25 36 12 3/8 7 1/8 16 1/8 10 1/2 1 5/8 4 1/2 1 1/2 2 1/4 7 1/2 9.0 3 12 3/8 7 1/8 16 1/8 10 1/2 1 5/8 36 5 1/4 4 1/2 | 1 1/2 2 1/4 7 1/2 9.0 4 36 1 % 5 1/4 | 12 3/8 | 7 3/8 | 16 3/8 | 10 1/2 | 1 5/8 4 1/2 1 2 1/4 7 1/2 1/2 9.0 5 48 5 1/4 16 1/2 10 1/2 22 1/2 14 2 1/4 6 1 1/4 16.0

STANDARD SIGN W1-4

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

Matthe R Raw
For State Traffic Engineer

SHEET NO:

DATE 5/17/12

PLATE NO. W1-4.11

HWY:

COUNTY:

PLOT DATE: 17-MAY-2012 13:20 PLOT BY: mscsja

PLOT NAME :

PLOT SCALE: 5.706180:1.000000

WISDOT/CADDS SHEET 42

PROJECT NO:

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

Background - Yellow Message - Black

3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.

c —	<b>A A</b>
	G
↑ ↑ ↑ ↑ ↑ ↑ ↑ ↑ ↑ ↑ ↑ ↑ ↑ ↑ ↑ ↑ ↑ ↑ ↑	_
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	
W1-6	

SIZE	Α	В	С	D	E	F	G	Н	I	J	K	L	М	N	0	Р	0	R	S	Т	U	٧	W	X	Y	Z	Area sq. ft.
1	36	18	1 1/8	3/8	3/8		9	10	3/4	5 %	4 3/4	2 3/8	14 %	29 1/4													4.5
2S	48	24	1 3/8	1/2	5/8		12	13 1/4	1	7 1/2	6 1/2	3 1/4	19 1/2	39													8.0
2M	48	24	1 3/8	1/2	5/8		12	13 1/4	1	7 1/2	6 1/2	3 1/4	19 1/2	39													8.0
3	60	30	1 3/8	1/2	5/8		15	16 1/4	1 1/4	9 1/4	8	4	24 3/8	48 3/4													12.5
4	60	30	1 3/8	1/2	5/8		15	16 1/4	1 1/4	9 1/4	8	4	24 3/8	48 3/4													12.5
5	96	48	2 1/4	3/4	1		24	26 1/2	2	15	13	6 1/2	39	78													32.0

COUNTY:

STANDARD SIGN W1-6

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

For

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

SHEET NO:

HWY:

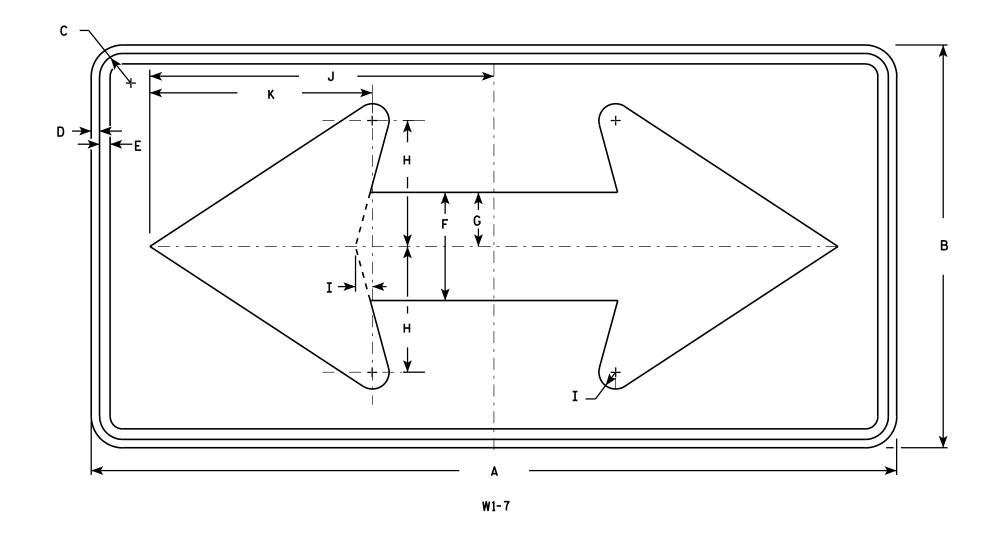
PROJECT NO:

PLOT NAME :

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

Background - Yellow Message - Black

3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.



SIZE	Α	В	С	D	E	F	G	Н	I	J	К	L	М	N	0	Р	0	R	S	T	U	٧	₩	Х	Y	Z	Area sq. ft.
1	36	18	1 1/8	3∕8	1/2	5	2 1/2	5 ¾	3/4	15 5/	10 1/8																4.5
2S	48	24	1 3/8	1/2	5/8	6 1/2	3 1/4	7 1/2	1	20 1/	2 13 1/4																8.0
2M	48	24	1 3/8	1/2	5/8	6 1/2	3 1/4	7 1/2	1	20 1/	2 13 1/4																8.0
3	60	30	1 3/8	1/2	5/8	8	4	9 1/4	1 1/4	25 3/	16 1/4																12.5
4	60	30	1 3/8	1/2	5/8	8	4	9 1/4	1 1/4	25 3/	ß 16 1/4																12.5
5	96	48	2 1/4	3/4	1	13	6 1/2	15	2	41	26 1/2																32.0

COUNTY:

STANDARD SIGN W1-7

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

Matthew R

For State Traffic Engineer

DATE 6/7/10 PLATE NO. W1-7.7

SHEET NO:

FILE NAME : C:\Users\PROJECTS\tr\_stdplate\W17.DGN

PROJECT NO:

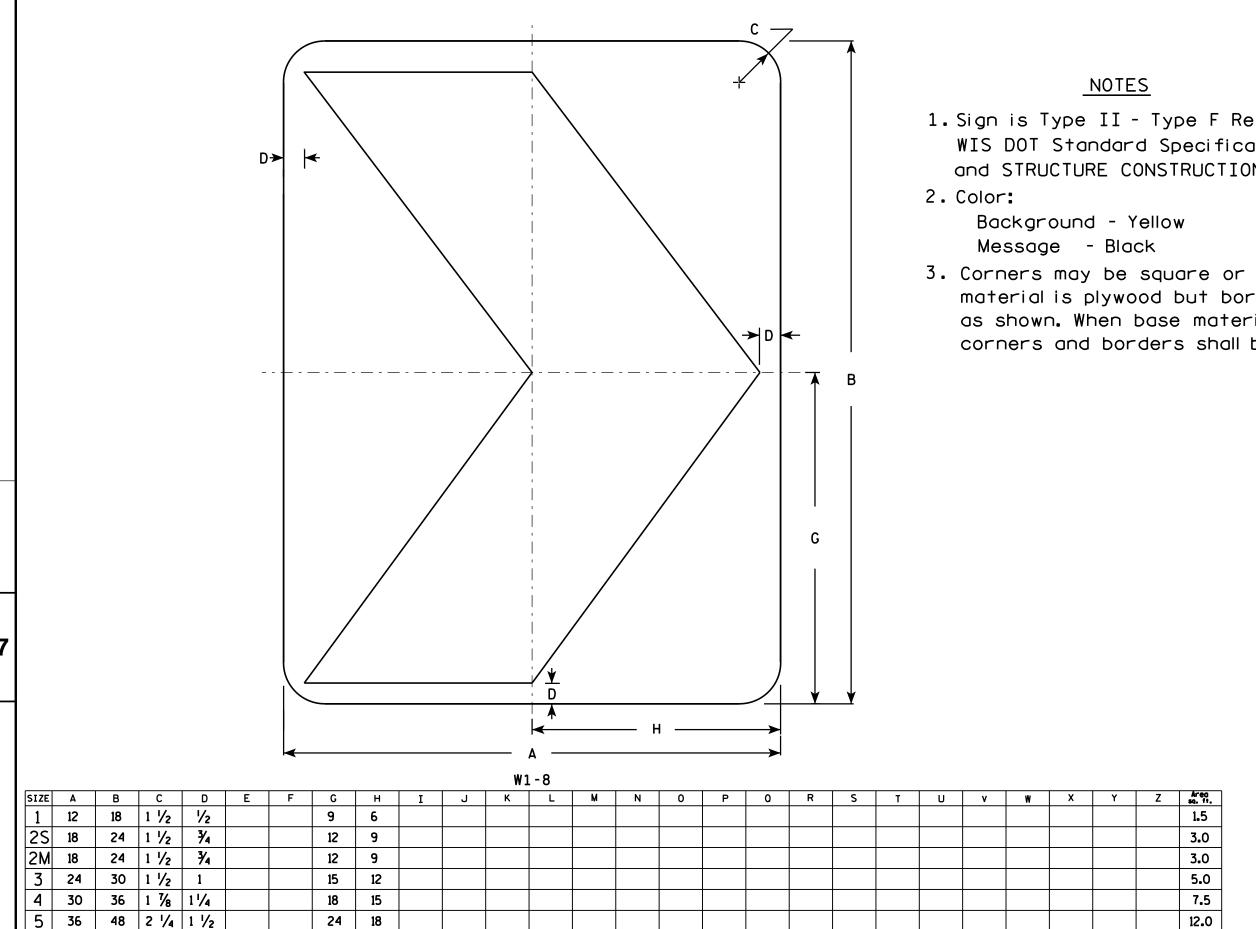
HWY:

PLOT DATE: 07-JUN-2010 12:35

PLOT BY : ditjph

PLOT NAME :

PLOT SCALE: 5.720679:1.000000



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

3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.

> STANDARD SIGN W1 - 8

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

For State Traffic Engineer PLATE NO. W1-8.6

DATE 6/7/10

SHEET NO:

PROJECT NO:

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

Background - Yellow Message - Black

3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.

W2-2
------

SIZE	Α	В	С	D	E	F	G	Н	I	J	K	L	М	N	0	P	0	R	S	T	د	V	W	X	Y	Z	Areo sq. fi.
1	24		1 1/8	3∕8	1/2	20	2	4	10	8																	4.0
25	30		1 3/8	1/2	5/8	25	2 1/2	5	12 1/2	10																	6.25
2M	30		1 3/8	1/2	5/8	25	2 1/2	5	12 1/2	10																	6.25
3	36		1 5/8	5/8	3/4	30	3	6	15	12																	9.0
4	48		2 1/4	3/4	1	40	4	8	20	16																	16.0
5																											

COUNTY:

STANDARD SIGN W2-2

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

Matthew R Rauch For State Traffic Engineer

SHEET NO:

DATE 5/29/12

PLATE NO. <u>W2-2.6</u>

FILE NAME : C:\CAEFiles\Projects\tr\_stdplate\W22.DGN

PROJECT NO:

HWY:

PLOT DATE: 29-MAY-2012 10:18

PLOT NAME :

PLOT BY: mscsja

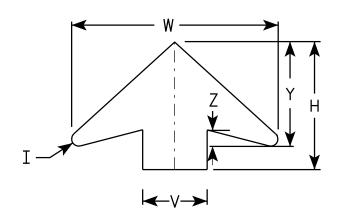
PLOT SCALE: 6.202372:1.000000

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

  Background YELLOW\*

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

\*Speed Limit Sign shall have a White Background



ARROW DETAIL

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

STANDARD SIGN W3-5

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

Matther R Rauch.

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

SHEET NO:

PROJECT NO:



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

Background - Yellow Message - Black

3. Message Series - E

W10	0-1

SIZE	Α	В	С	D	E	F	G	Н	I	J	K	L	М	N	0	Р	0	R	S	Т	U	٧	W	X	Y	Z	Area sq. ft.
1	30			3⁄8	5/8	7	3 1/2	45°	12 3/8	7 1/8	3	1 1/2															4.91
2S	36			5/8	3/4	8	4	45°	14 3/8	8 %	4	2															7.07
2M	36			5/8	₹4	8	4	45°	14 3/8	8 %	4	2															7.07
3																											
4	48			3/4	1 1/4	10	5	45°	18 3/8	11 %	5	2 1/2															12.57
5																											

COUNTY:

STANDARD SIGN W10-1

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

DATE 3/13/13 State Traffic Engineer PLATE NO. W10-1.8

SHEET NO:

FILE NAME : C:\CAEFiles\Projects\tr\_stdplate\W101.DGN

PROJECT NO:

HWY:

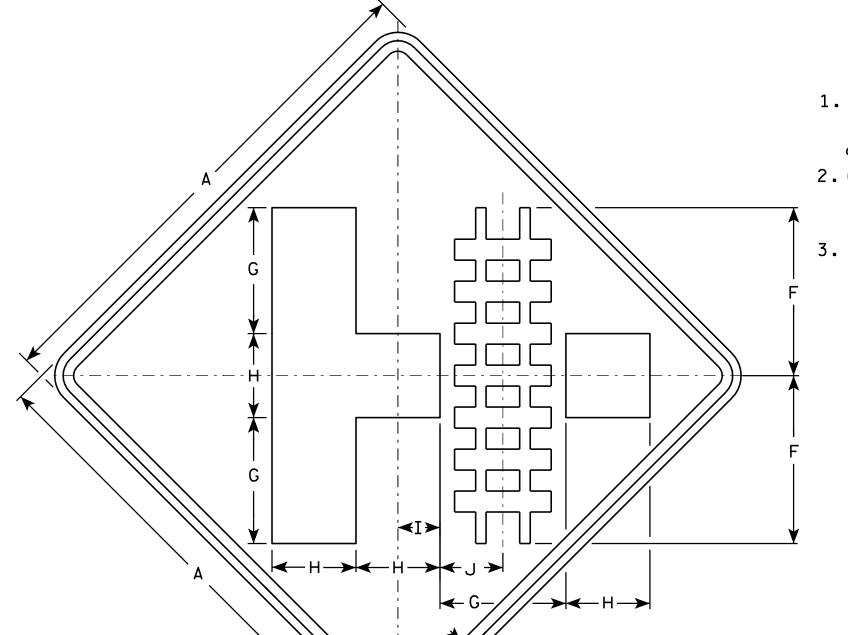
PLOT DATE: 13-MAR-2013 11:06

PLOT BY: mscj9h

PLOT NAME :

PLOT SCALE: 6.946657:1.000000

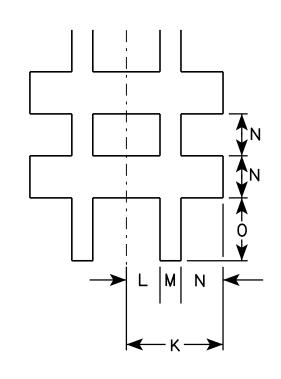
: 6.946657:1.000000 WISDOT/CADDS SHEET 42



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

Background - Yellow Message - Black

3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.



В	C 1 3/8 1 5/8	D 1/2 5/8	5/8 3/4	F 10 12	G 7 ½ 9	н 5	I 2 ½	J 3 ¾	к 2 <b>1</b> /8	1	M 5/8	N 1 1/4	0 1 1/8	Р	0	R	S	Т	U	V	W	Х	Y	Z	Area sq. ft.
	1 1/8	5/8				5	2 1/2	J 74	- /8	1	5/8	1 1/4	1 %	\ \ \						·					6 25
	. /6		₹4	12	9	c						- / -	- /0												0.23
	. 5/					٥	3	4 1/2	3 3/8	1 1/8	3/4	1 1/2	2 1/4												9.0
	1 %	5∕8	₹4	12	9	6	3	4 1/2	3 %	1 1/8	3/4	1 1/2	2 1/4												9.0
	1 %	5/8	3/4	12	9	6	3	4 1/2	3 3/8	1 1/8	3/4	1 1/2	2 1/4												9.0
	2 1/4	3/4	1	16	12	8	4	6	4 1/2	1 1/2	1	2	3												16.0
		1 5/8	1 5/8 5/8	1 5/8 5/8 3/4	1 5/8 5/8 3/4 12	1 % % ¾ 12 9	1 5/8 5/8 3/4 12 9 6	1 5/8 5/8 3/4 12 9 6 3	1 5/8 5/8 3/4 12 9 6 3 4 1/2	1 5/8 5/8 3/4 12 9 6 3 4 1/2 3 3/8	1 5/8 5/8 3/4 12 9 6 3 4 1/2 3 3/8 1 1/8	1 5/8 5/8 3/4 12 9 6 3 4 1/2 3 3/8 1 1/8 3/4	1 5/8 5/8 3/4 12 9 6 3 4 1/2 3 3/8 1 1/8 3/4 1 1/2	1 5/8 5/8 3/4 12 9 6 3 4 1/2 3 3/8 1 1/8 3/4 1 1/2 2 1/4	1 5/8 5/8 3/4 12 9 6 3 4 1/2 3 3/8 1 1/8 3/4 1 1/2 2 1/4	1 5/8 5/8 3/4 12 9 6 3 4 1/2 3 3/8 1 1/8 3/4 1 1/2 2 1/4	1 5/8 5/8 3/4 12 9 6 3 4 1/2 3 3/8 1 1/8 3/4 1 1/2 2 1/4	1 5/8 5/8 3/4 12 9 6 3 4 1/2 3 3/8 1 1/8 3/4 1 1/2 2 1/4	1 5/8 5/8 3/4 12 9 6 3 4 1/2 3 3/8 1 1/8 3/4 1 1/2 2 1/4	1 5/8 5/8 3/4 12 9 6 3 4 1/2 3 3/8 1 1/8 3/4 1 1/2 2 1/4	1 5/8 5/8 3/4 12 9 6 3 4 1/2 3 3/8 1 1/8 3/4 1 1/2 2 1/4	1 5/8 5/8 3/4 12 9 6 3 4 1/2 3 3/8 1 1/8 3/4 1 1/2 2 1/4	1 5/8 5/8 3/4 12 9 6 3 4 1/2 3 3/8 1 1/8 3/4 1 1/2 2 1/4	1 5/8 5/8 3/4 12 9 6 3 4 1/2 3 3/8 1 1/8 3/4 1 1/2 2 1/4	1 5/8 5/8 3/4 12 9 6 3 4 1/2 3 3/8 1 1/8 3/4 1 1/2 2 1/4

COUNTY:

STANDARD SIGN W10 - 3

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

For State Traffic Engineer PLATE NO. W10-3.8

DATE 3/13/13

SHEET NO:

HWY:

PROJECT NO:

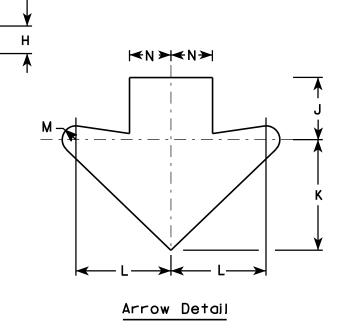
PLOT NAME :

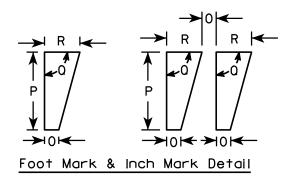


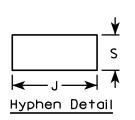
- 1. Sign is Type II Type F Reflective reference WIS DOT Standard Specification for HIGHWAY
  - and STRUCTURE CONSTRUCTION latest edition.
- 2. Color:

Background - Yellow Message - Black

- 3. Message Series D
- 4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
- 5. Substitute appropriate numerals and optically adjust spacing of numerals, hyphen, foot & inch marks to achieve proper balance.







SIZE	Α	В	С	D	Ε	F	G	н	I	J	K	L	M	N	0	Р	0	R	S	T	U	V	W	X	Y	Z	Are
1	30		1 3/8	1/2	5/8		5	1 %	3 3/8	3 3/4	6 %	5 3/4	3/4	2 1/2	1/2	2 1/4	90°	1	1 1/8								6.2
25	36		1 %	5/8	₹4		6	2	4	4 1/2	8	6 %	1	3	1/2	2 3/4	90°	1 1/4	1 %								9.0
2M	36		1 %	5/8	₹4		6	2	4	4 1/2	8	6 %	1	3	1/2	2 3/4	90°	1 1/4	1 %								9.
3	36		1 %	5/8	3/4		6	2	4	4 1/2	8	6 %	1	3	1/2	2 3/4	90°	1 1/4	1 %								9.
4	36		1 %	5/8	3/4		6	2	4	4 1/2	8	6 %	1	3	1/2	2 3/4	90°	1 1/4	1 %								9.
5	48		2 1/4	3/4	1		8	2 5/8	5 1/2	5 %	10 %	9 1/4	1 3/8	4	5/8	3 %	90°	1 5/8	2 1/2								16

COUNTY:

W12-2

HWY:

STANDARD SIGN
W12-2

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

Matthew R Rauch
For State Traffic Engineer
DATE 3/13/13 PLATE NO. W12-2.9

SHEET NO:

FILE NAME: C:\CAEFiles\Projects\tr\_stdplate\W122.DGN

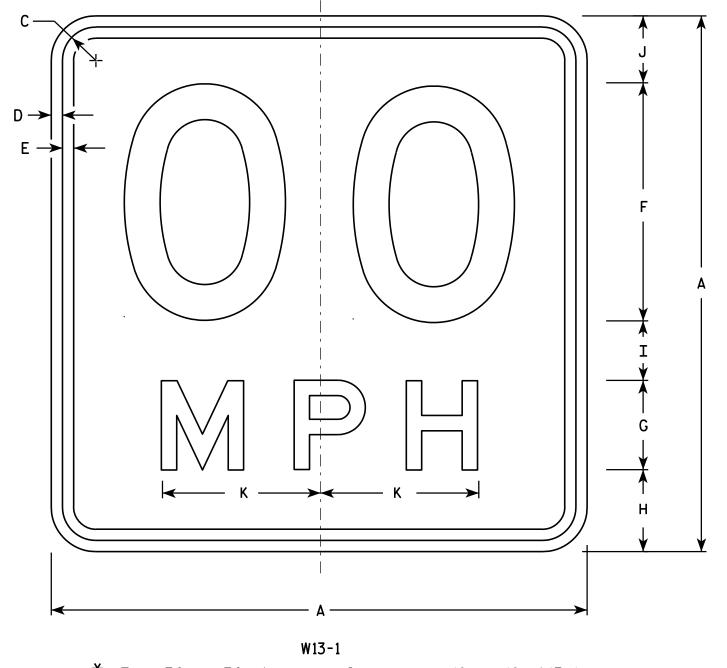
PROJECT NO:

PLOT DATE: 13-MAR-2013 13:27

PLOT BY: mscj9h

PLOT NAME :

PLOT SCALE: 6.946657:1.000000



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

Background - Yellow Message - Black

- 3. Message Series See Note 6
- 4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
- 5. Substitute appropriate numerals and optically space about centerline to achieve proper balance.
- 6. Line 1 is Series D Line 2 is Series E

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

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

STANDARD SIGN W13-1

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

Matthew & Ram

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

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

SHEET NO:

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

PLOT DATE: 31-MAY-2012 10:57

PLOT NAME :

PLOT BY: mscsja

PLOT SCALE: 3.225232:1.000000



- 1. Sign is Type II Type F Reflective
- 2. Color:

Background - Yellow Message - Black

- 3. Message Series See note 5
- 4. Corners and borders shall be rounded on all base materials for this sign.
- 5. Lines 1 and 2 are Series D. Line 3 is series C.



SIZE	Α	В	С	D	E	F	G	Н	I	J	K	L	М	N	0	Р	0	R	S	Т	U	٧	W	Х	Y	Z	Area sq. ft.
1																											
25	48	36	2 1/4	5/8	7/8	5	2	8 1/2	3	8	26 ¾	12 3/4															5.56
2M																											
3																											
4																											
5																											
PRO	JECT	NO:					Н	WY:					COL	JNTY:													

STANDARD SIGN W14-3

WISCONSIN DEPT OF TRANSPORTATION

//U

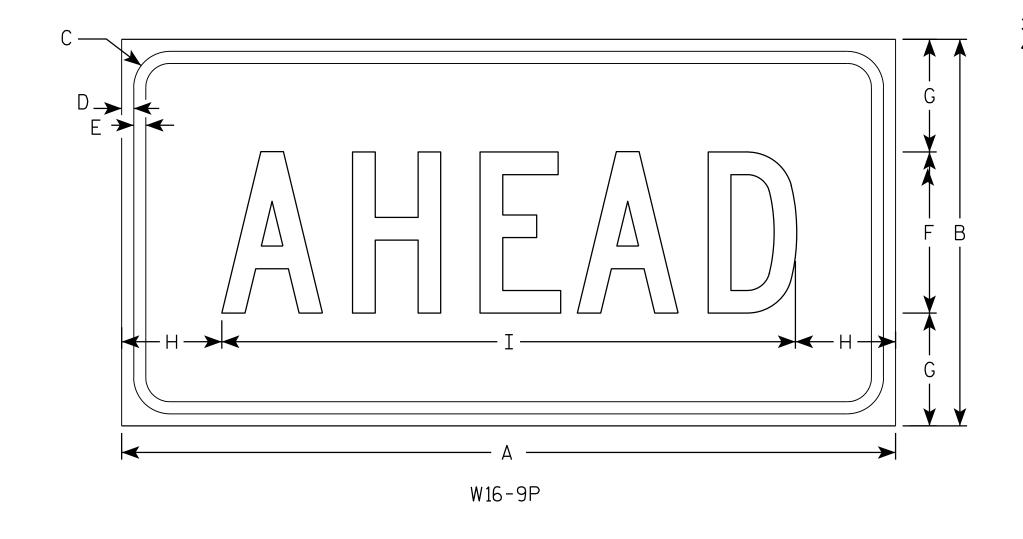
2/23/17 PLATE NO. W14-3.1

SHEET NO:

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

Background - Yellow Message - Black

- 3. Message Series C
- 4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.



SIZE	Α	В	С	D	E	F	G	Н	I	J	K	L	М	N	0	Р	0	R	S	T	U	٧	₩	X	Y	Z	Areg sq. ft.
1																											
25	24	12	1 1/8	3/8	3⁄8	5	3 1/2	3 1/8	17 3/4																		2.0
2M	30	18	1 1/8	3/8	1/2	7	5 1/2	2 3/4	24 1/2																		3.75
3	30	18	1 1/8	3/8	1/2	7	3 1/2	2 3/4	24 1/2																		3.75
4	48	24	1 3/8	1/2	5/8	10	7	6 1/8	35 ¾																		8.0
5																											

COUNTY:

STANDARD SIGN W16-9P

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

Matther R Rauch
For State Traffic Engineer

DATE 12/28/10

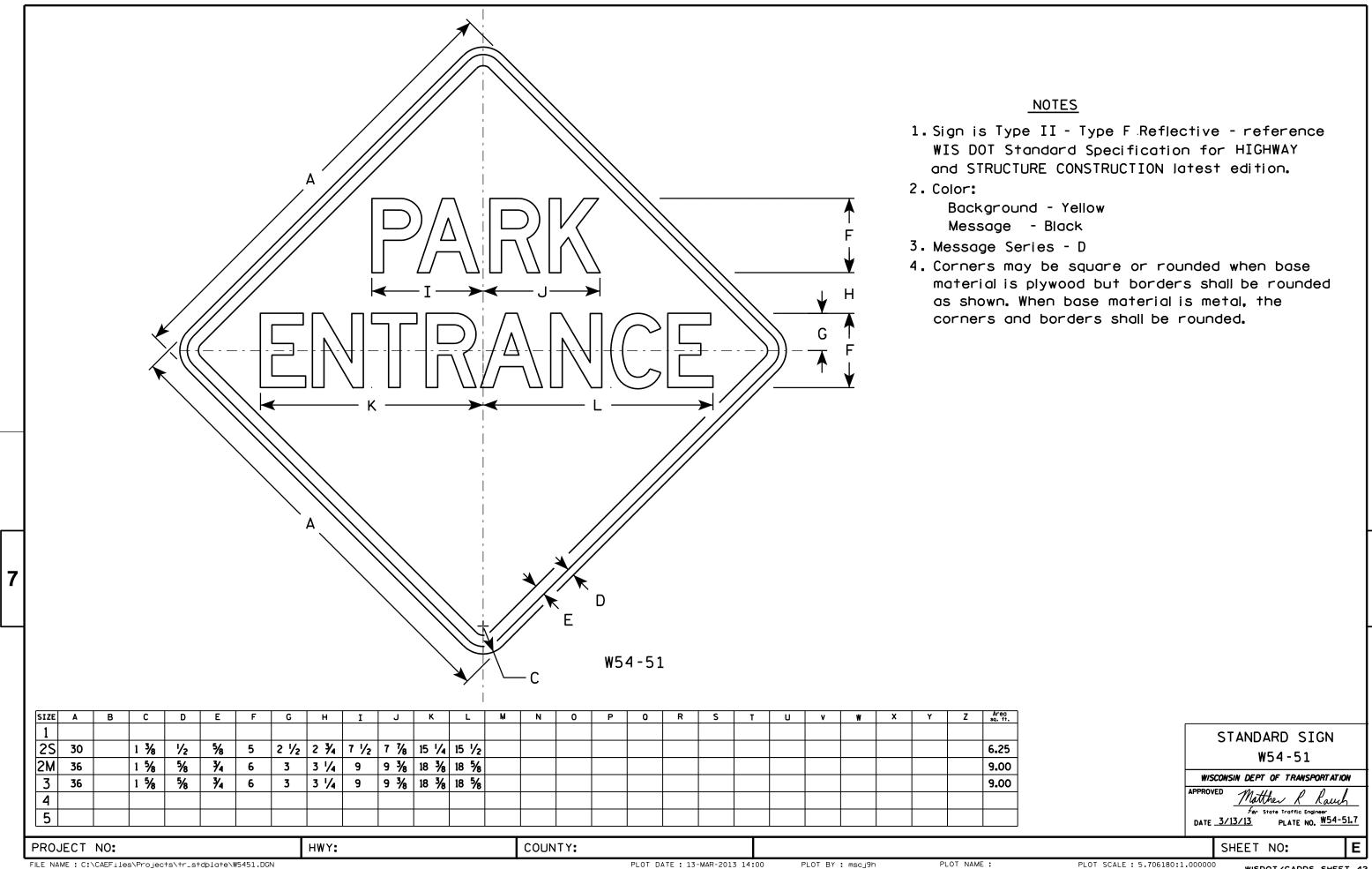
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SHEET NO:

HWY:

PROJECT NO:

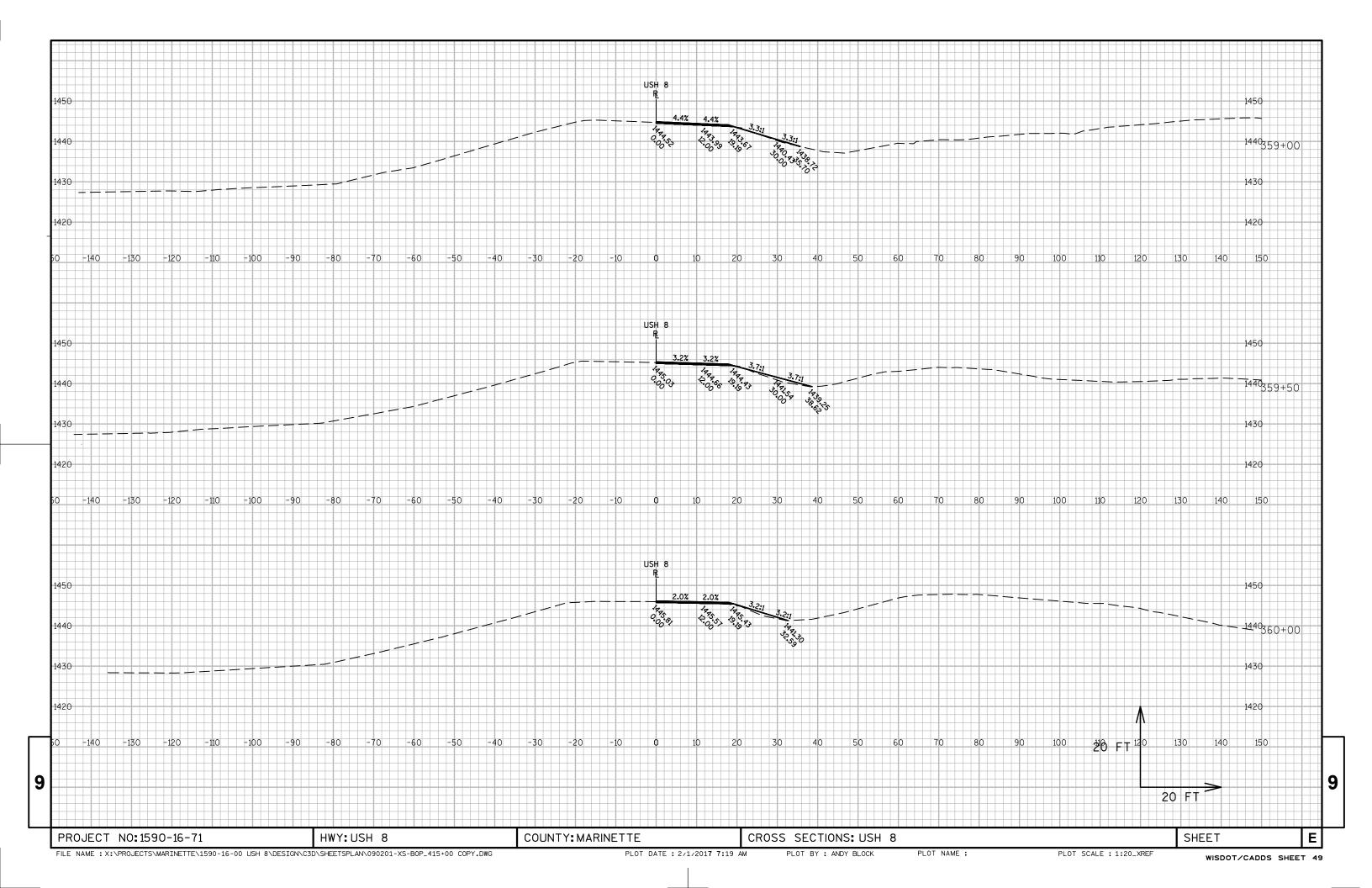
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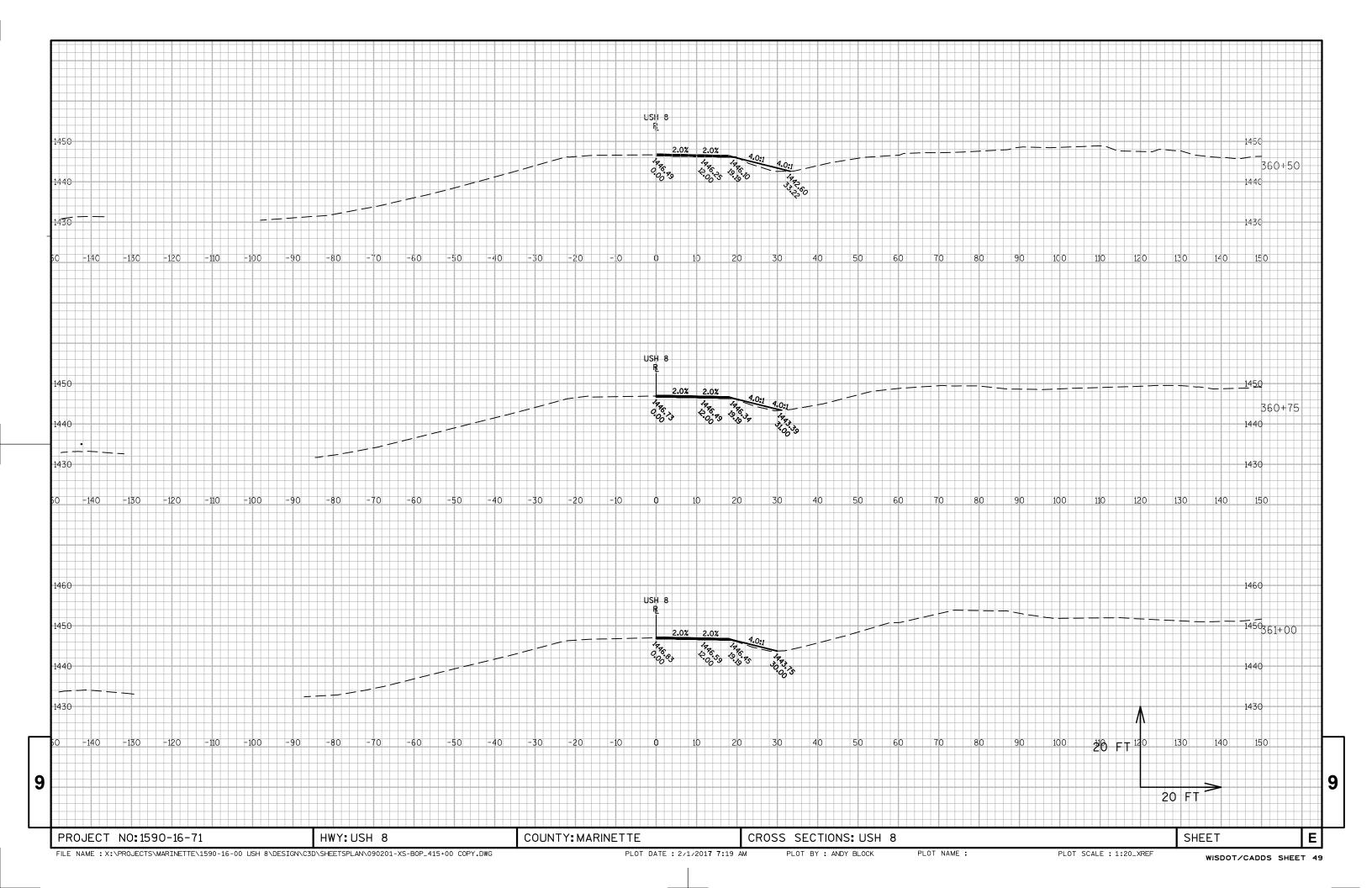


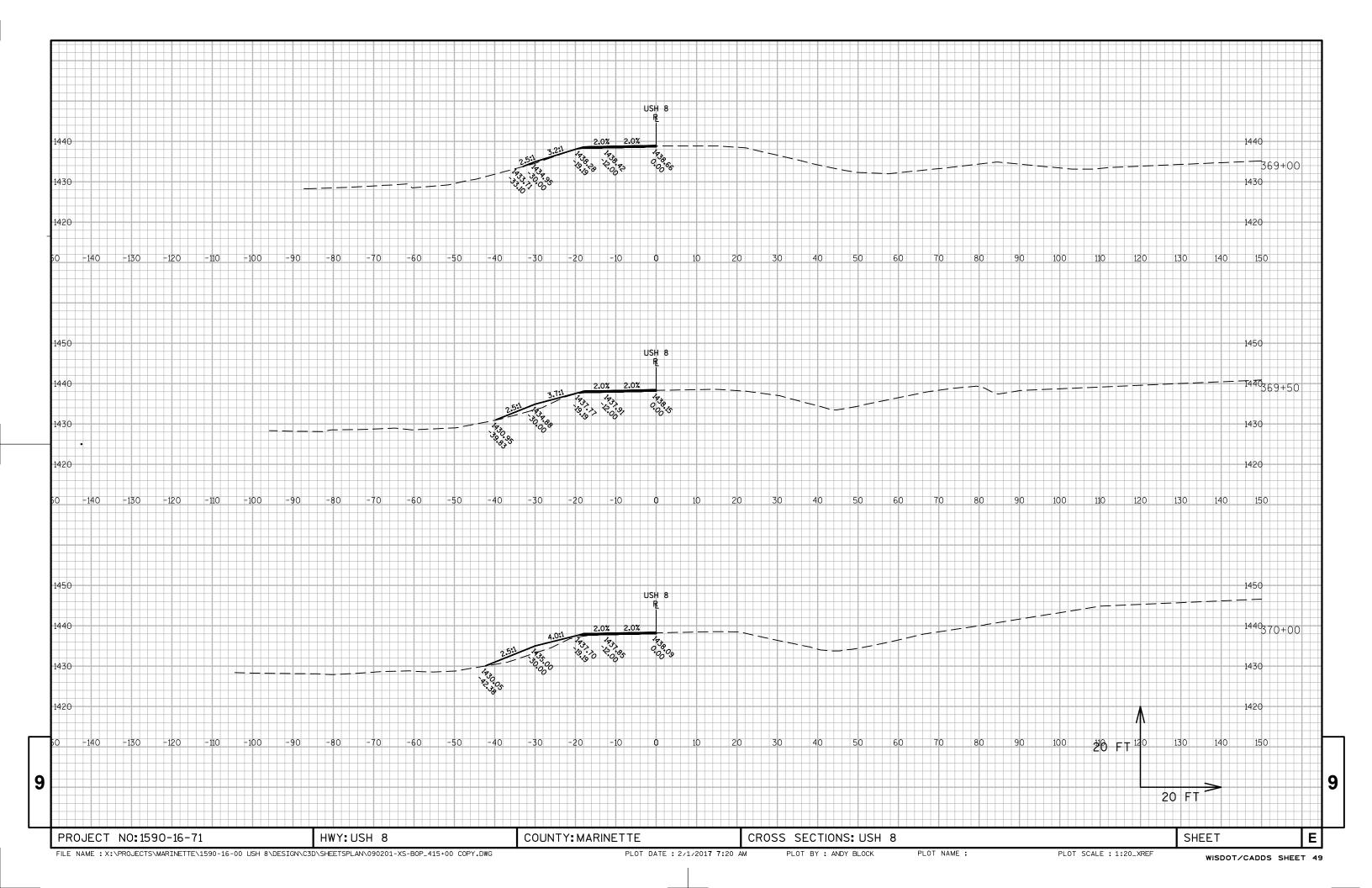
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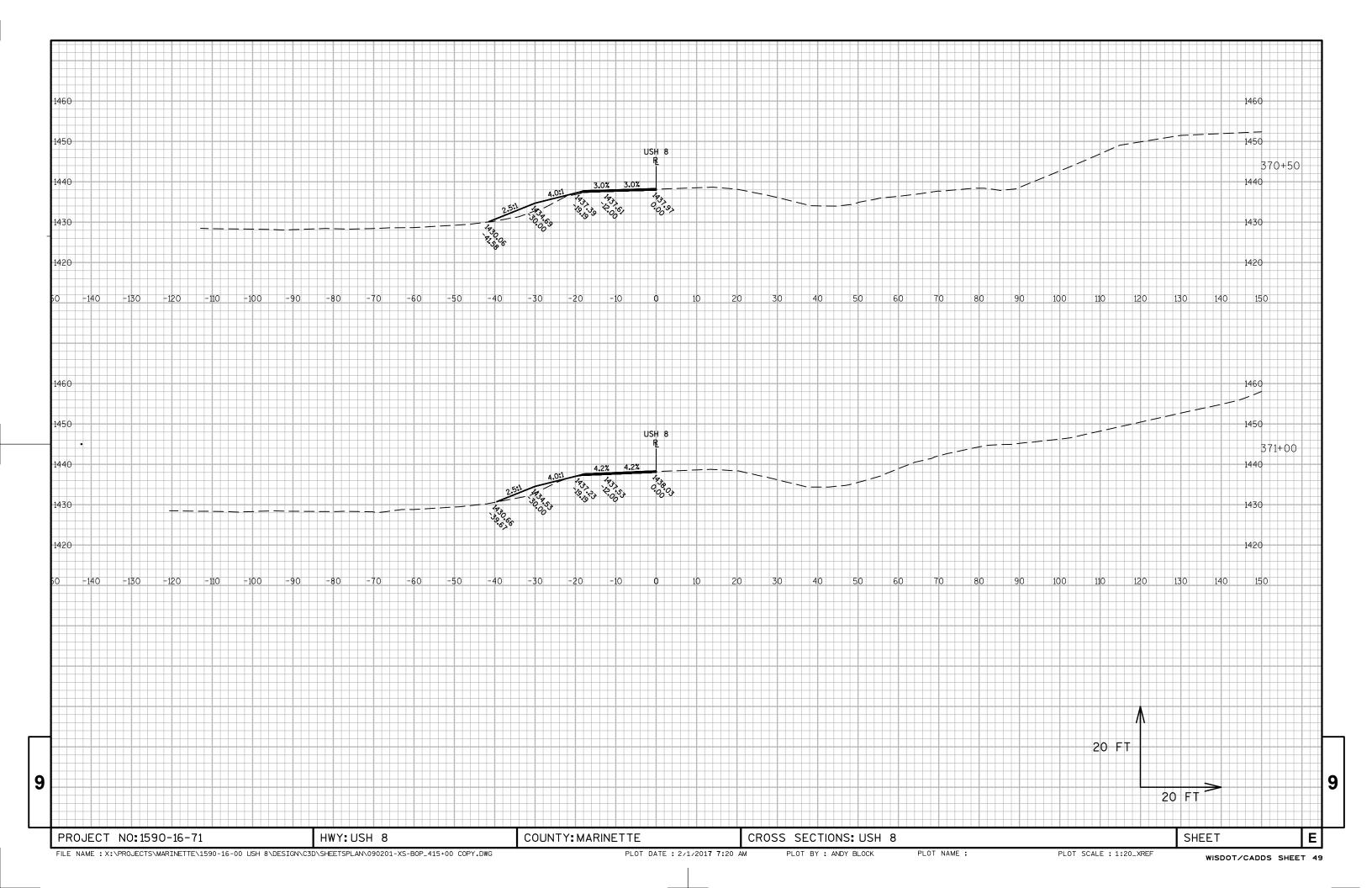
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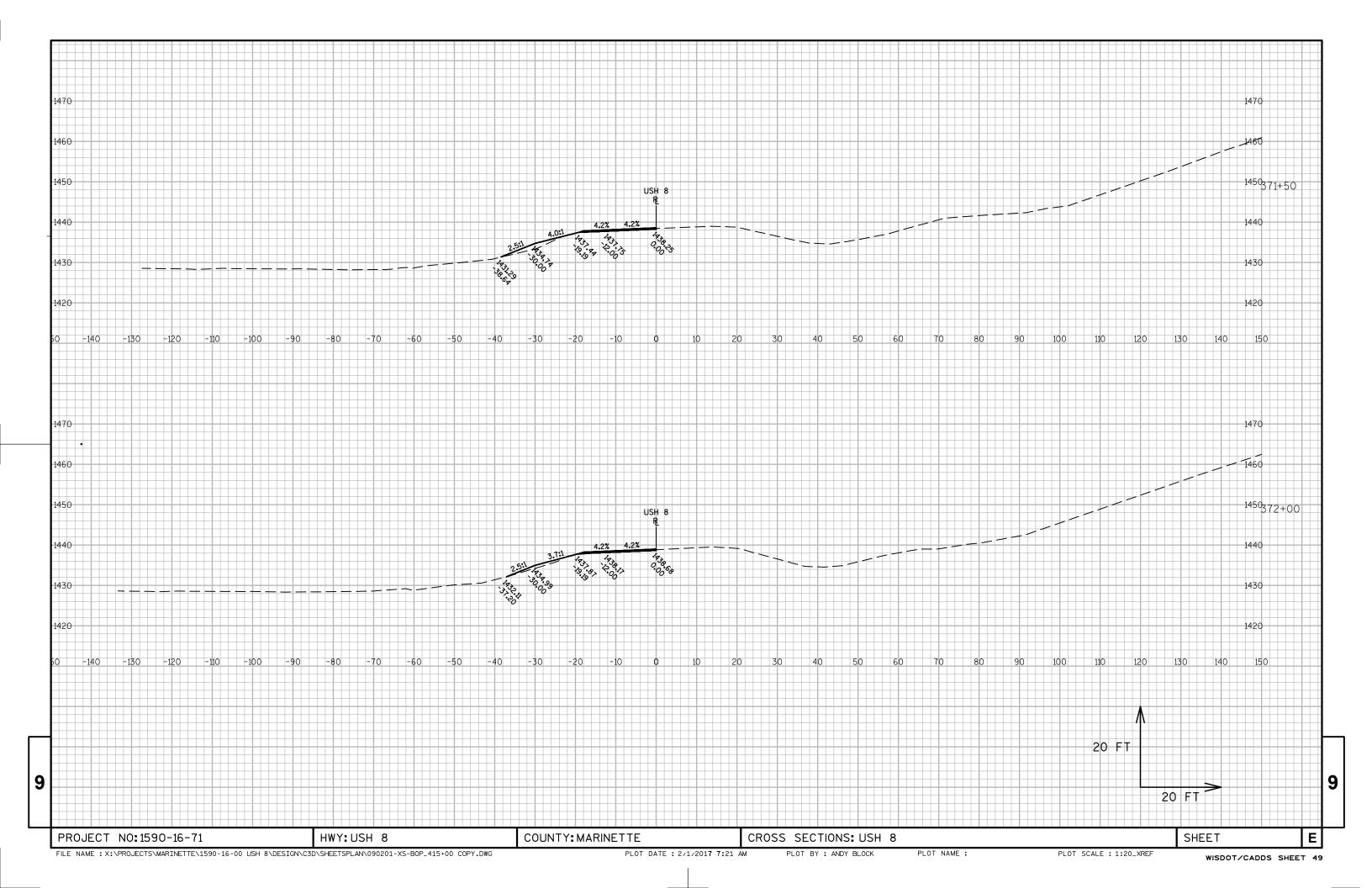
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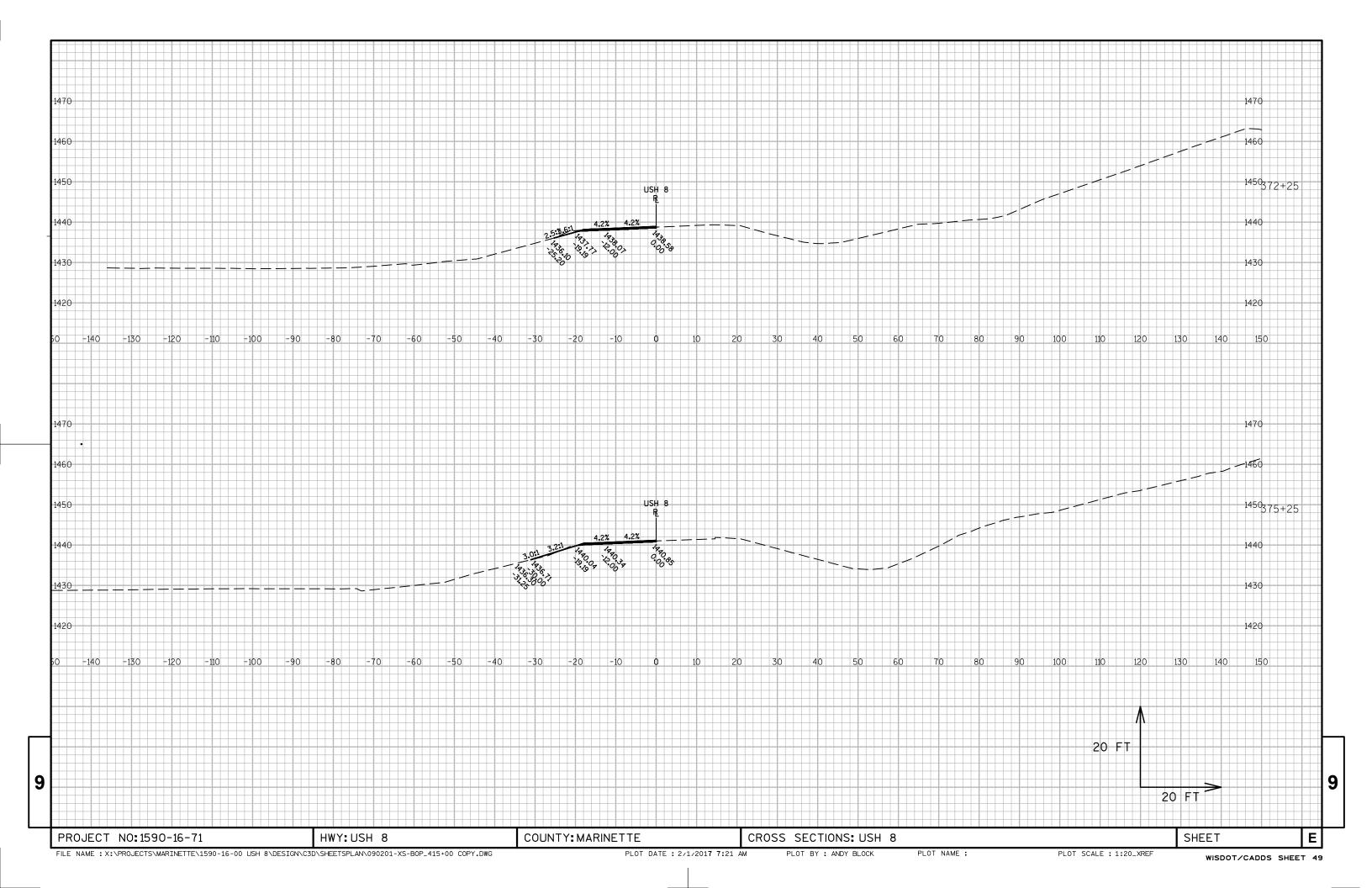


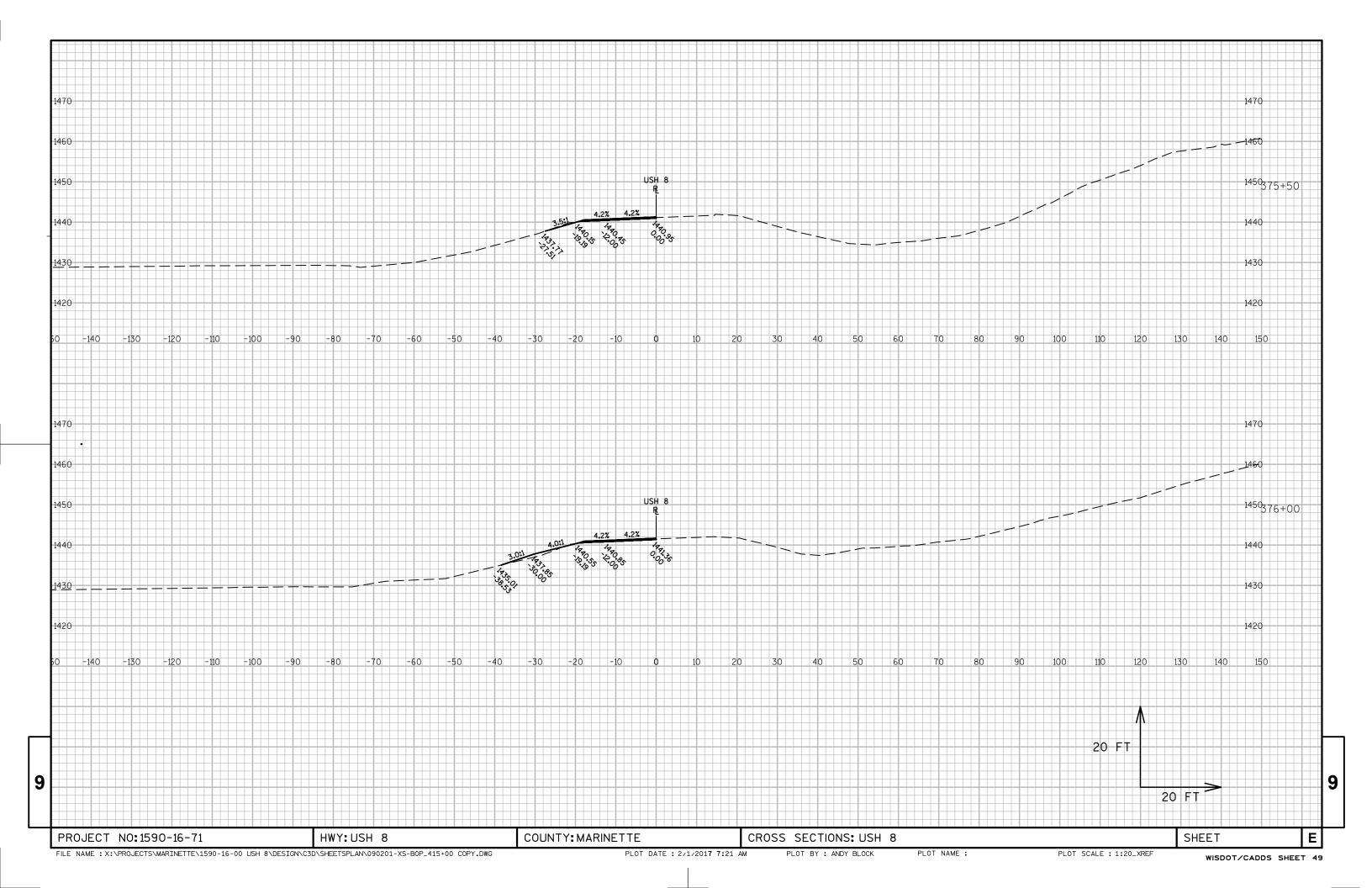


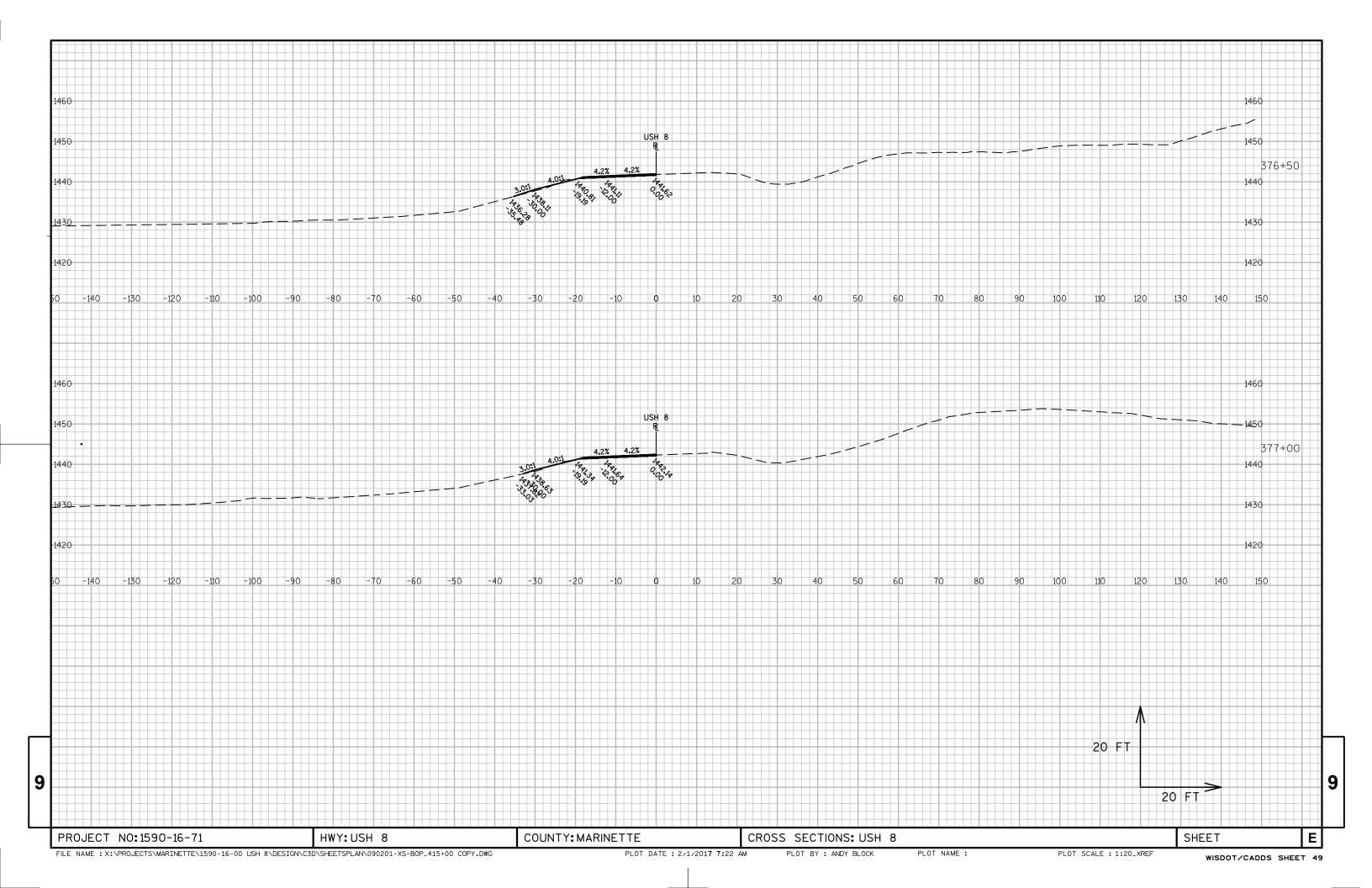


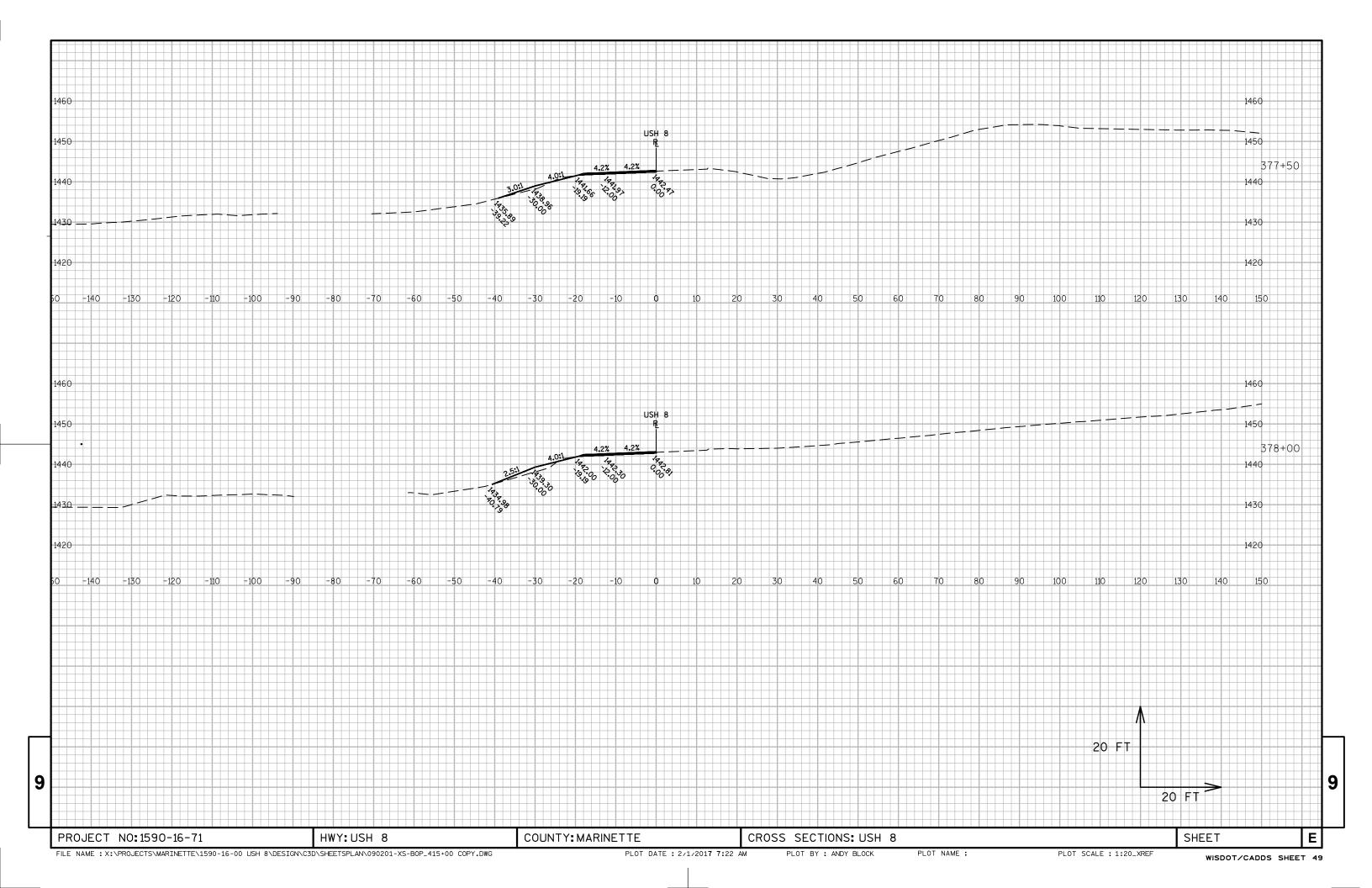


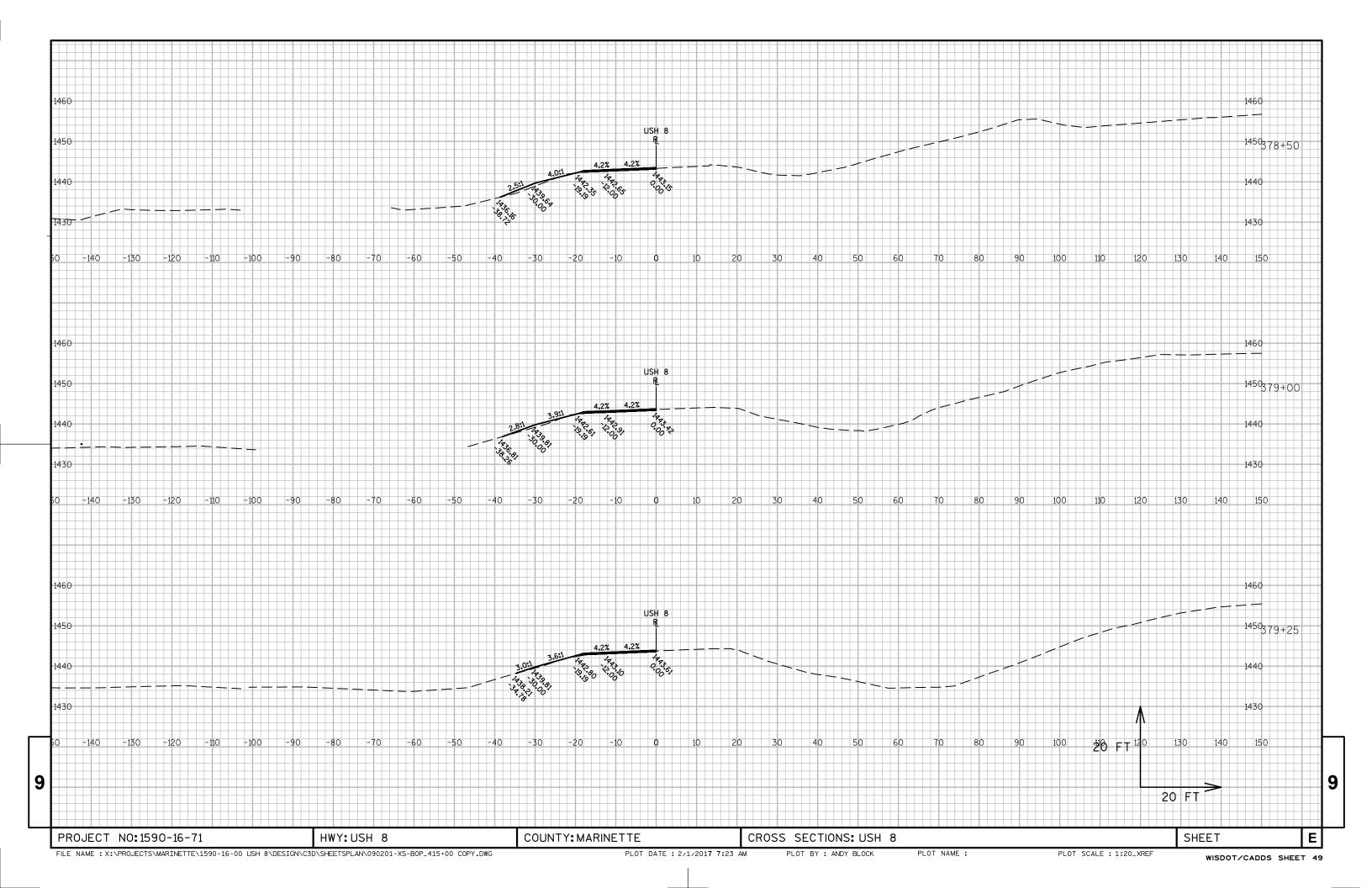


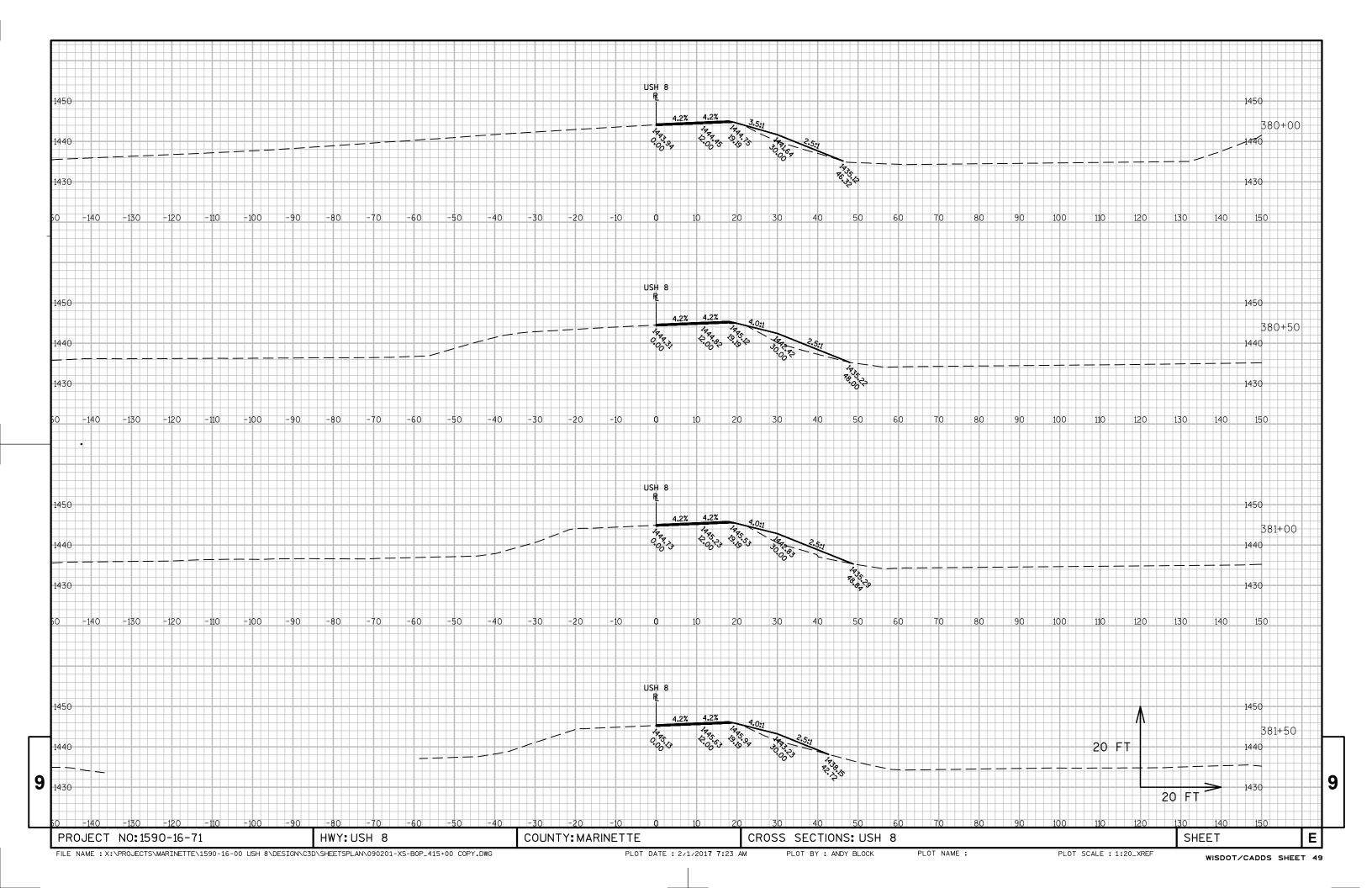


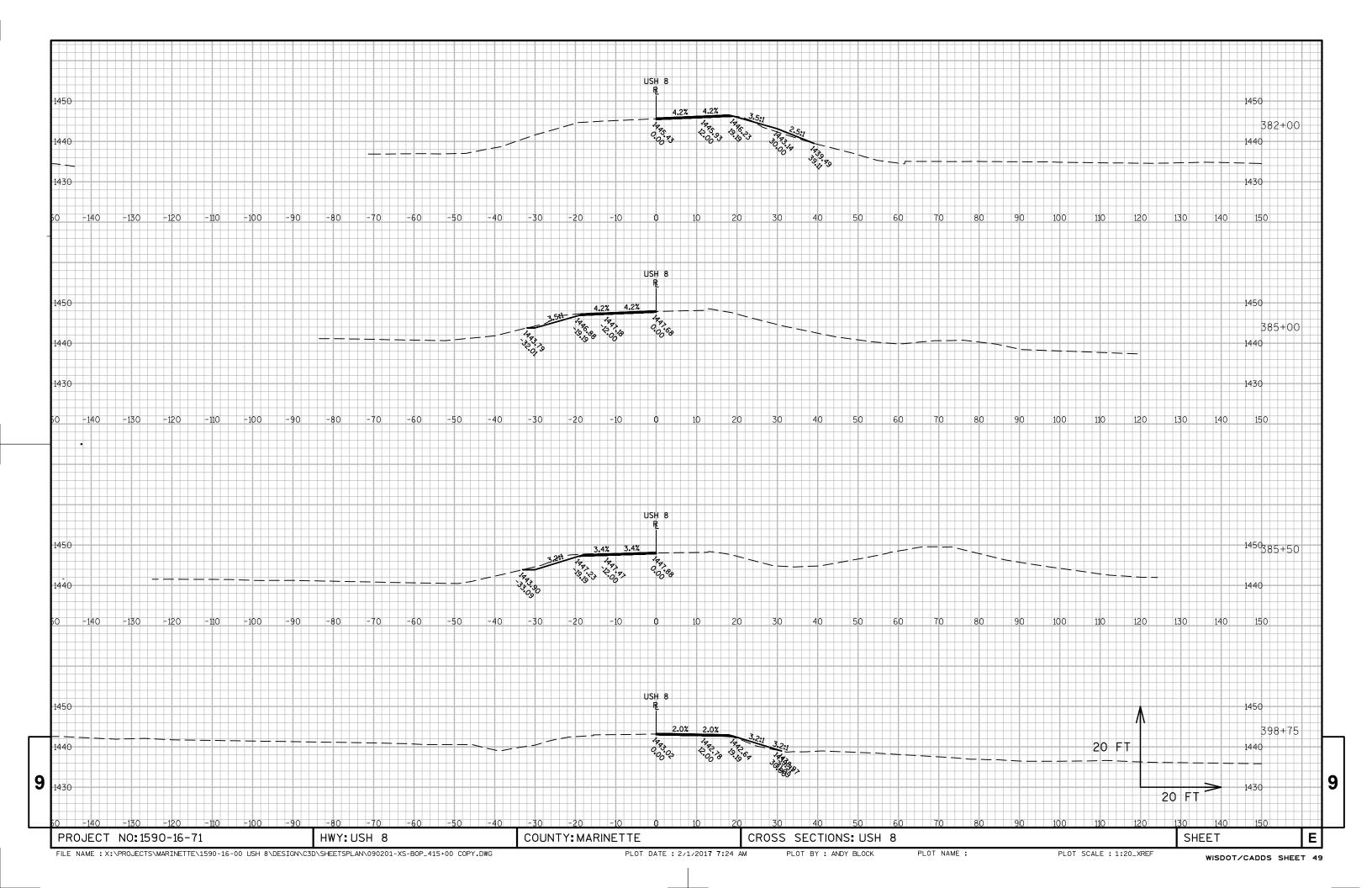


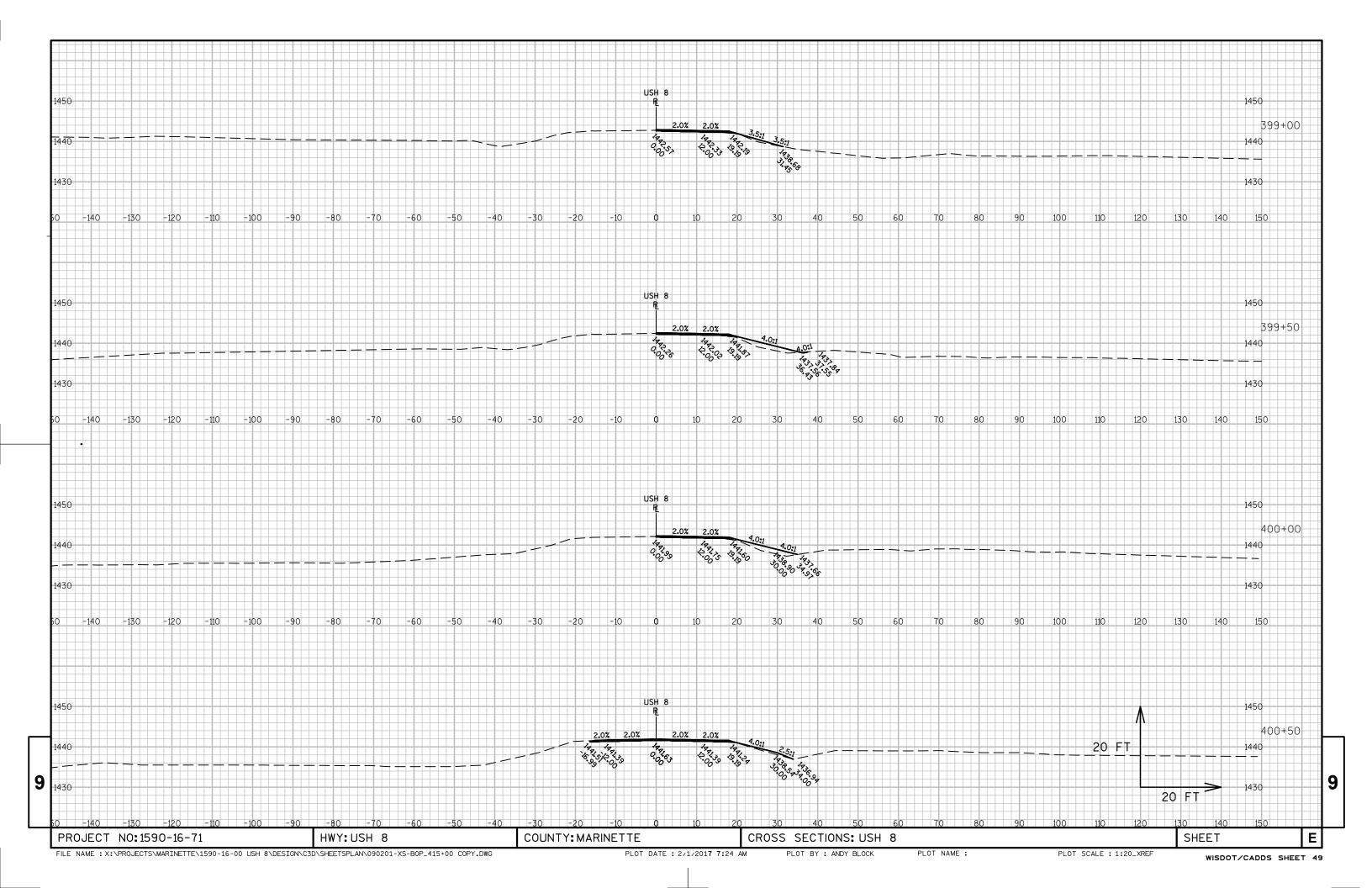


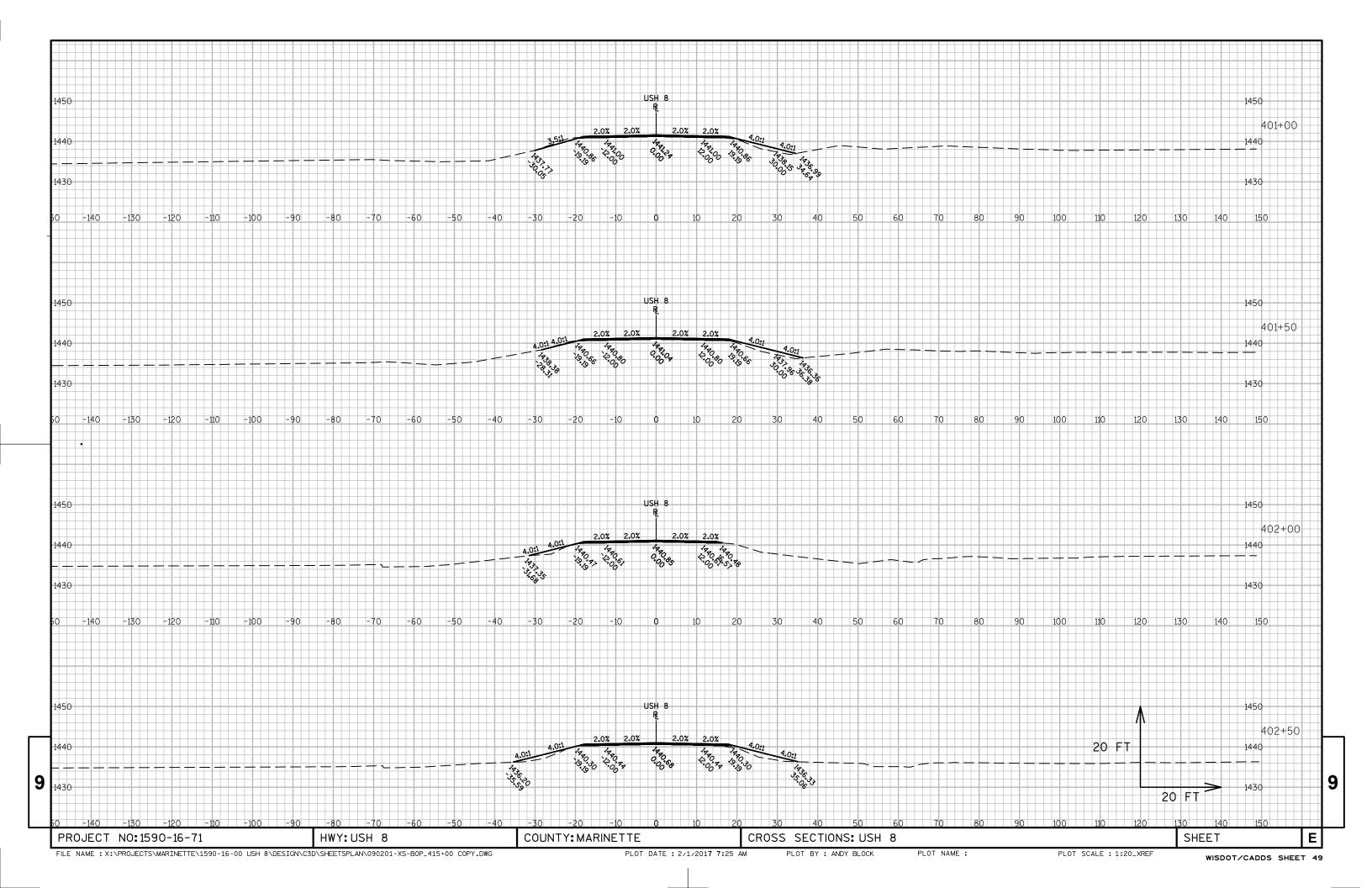


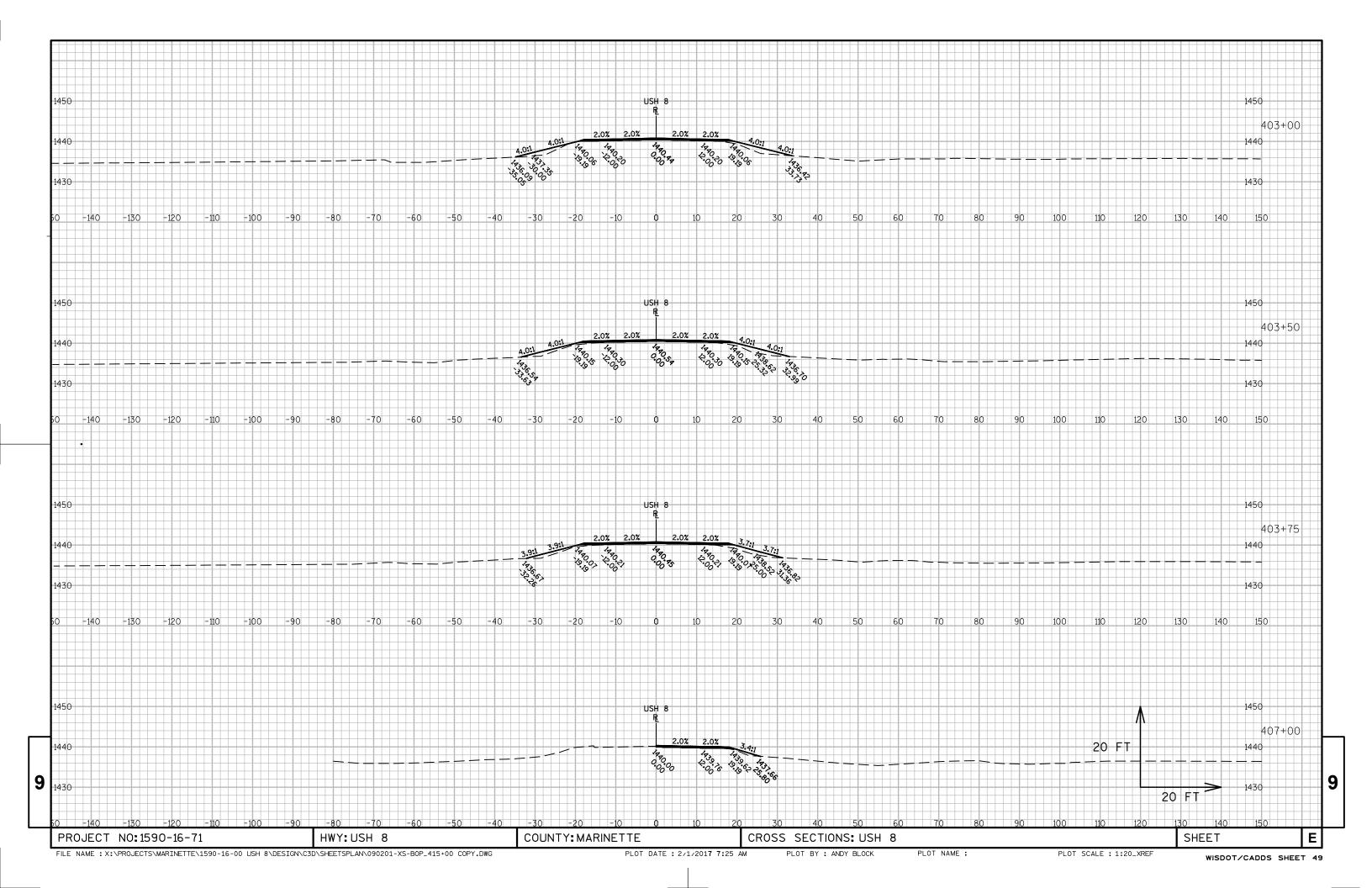


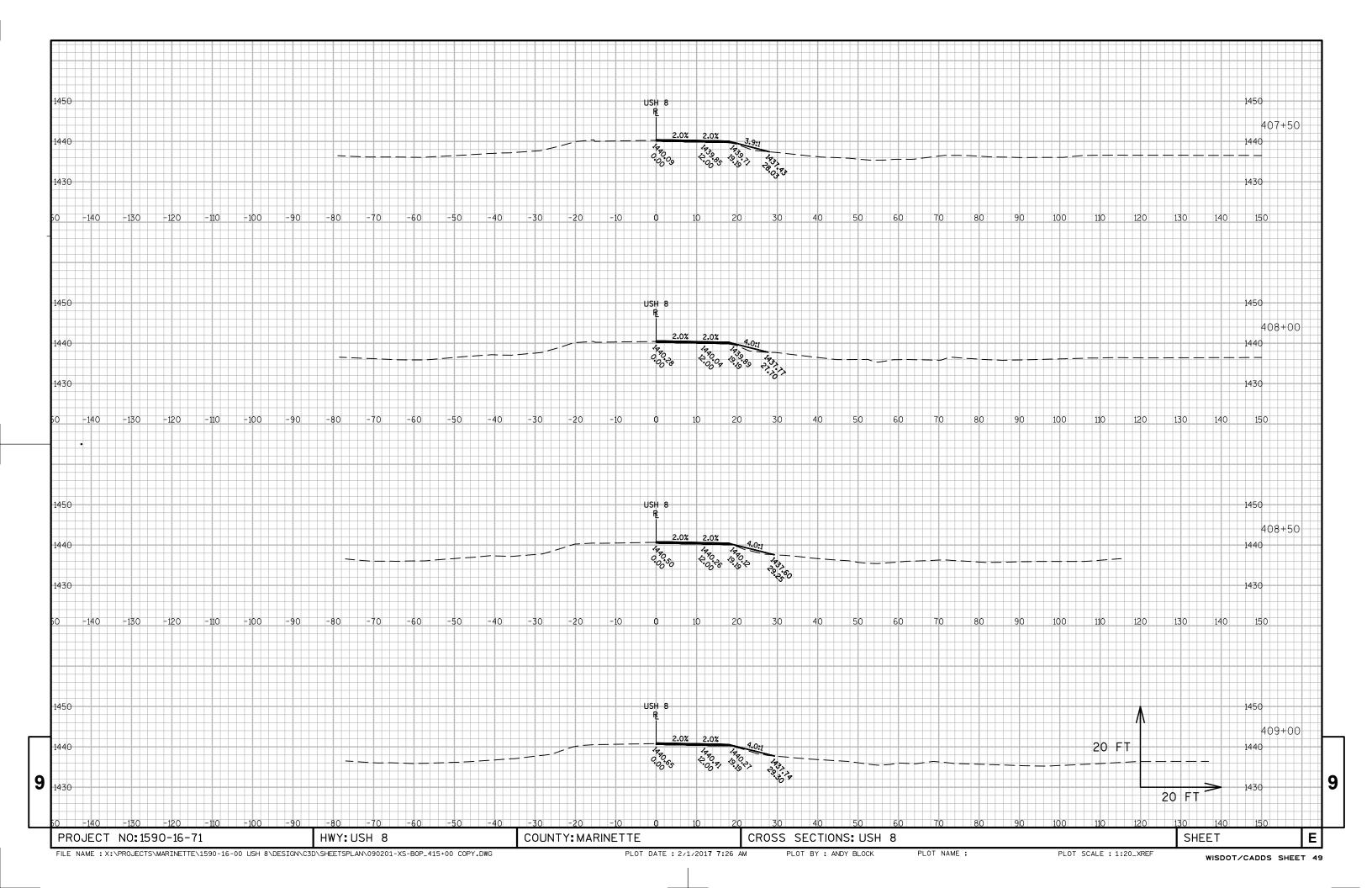


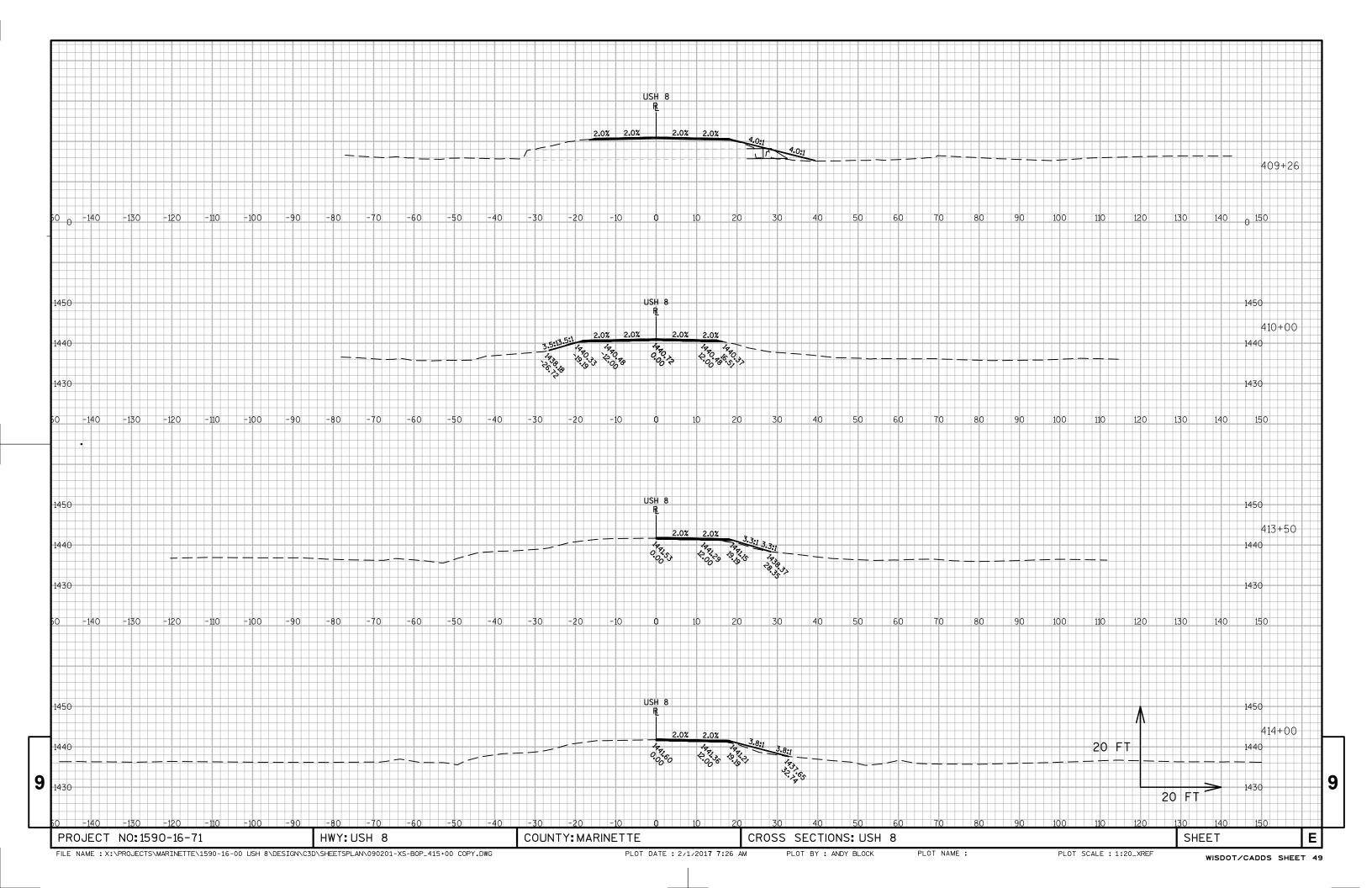


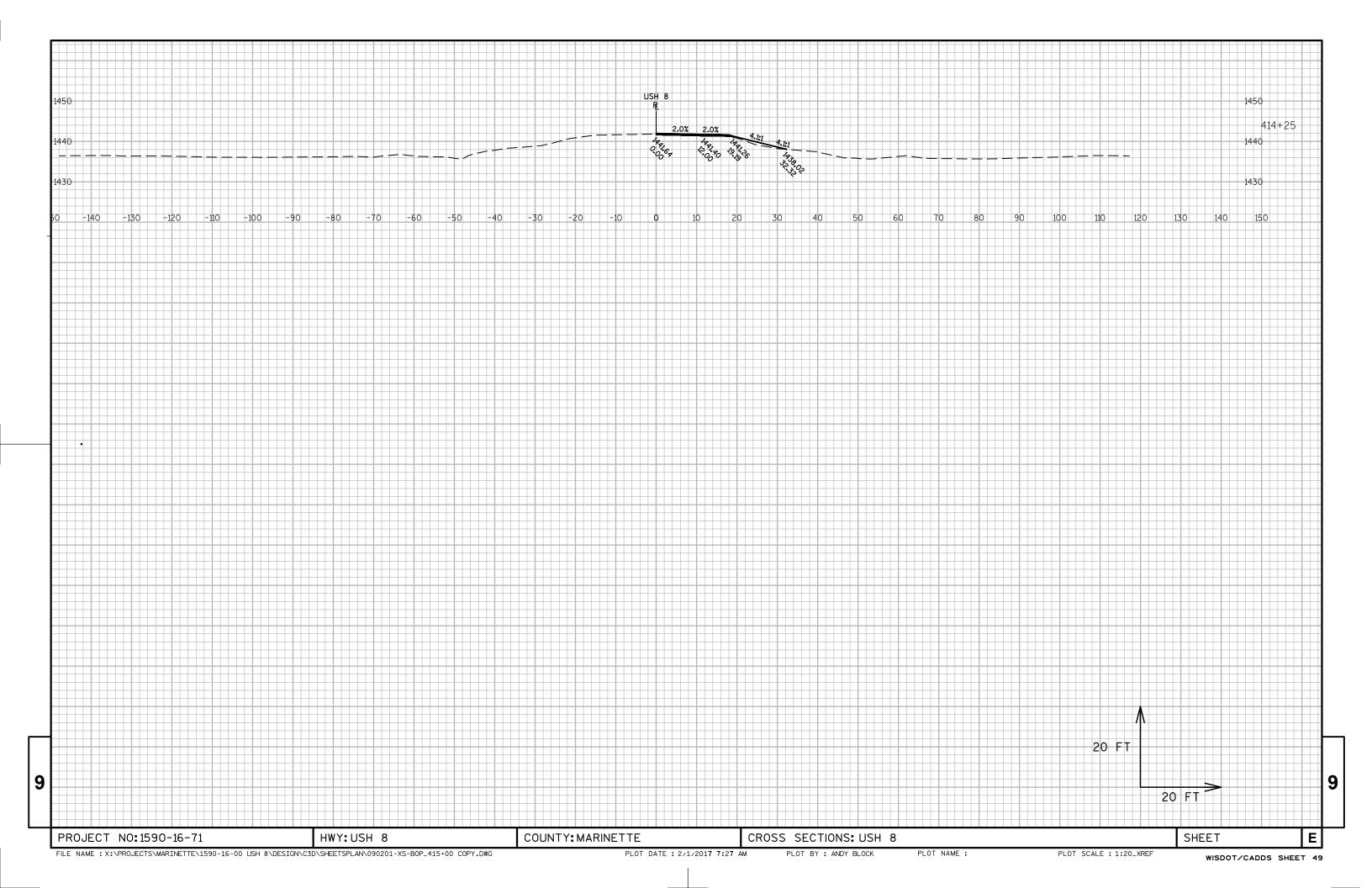


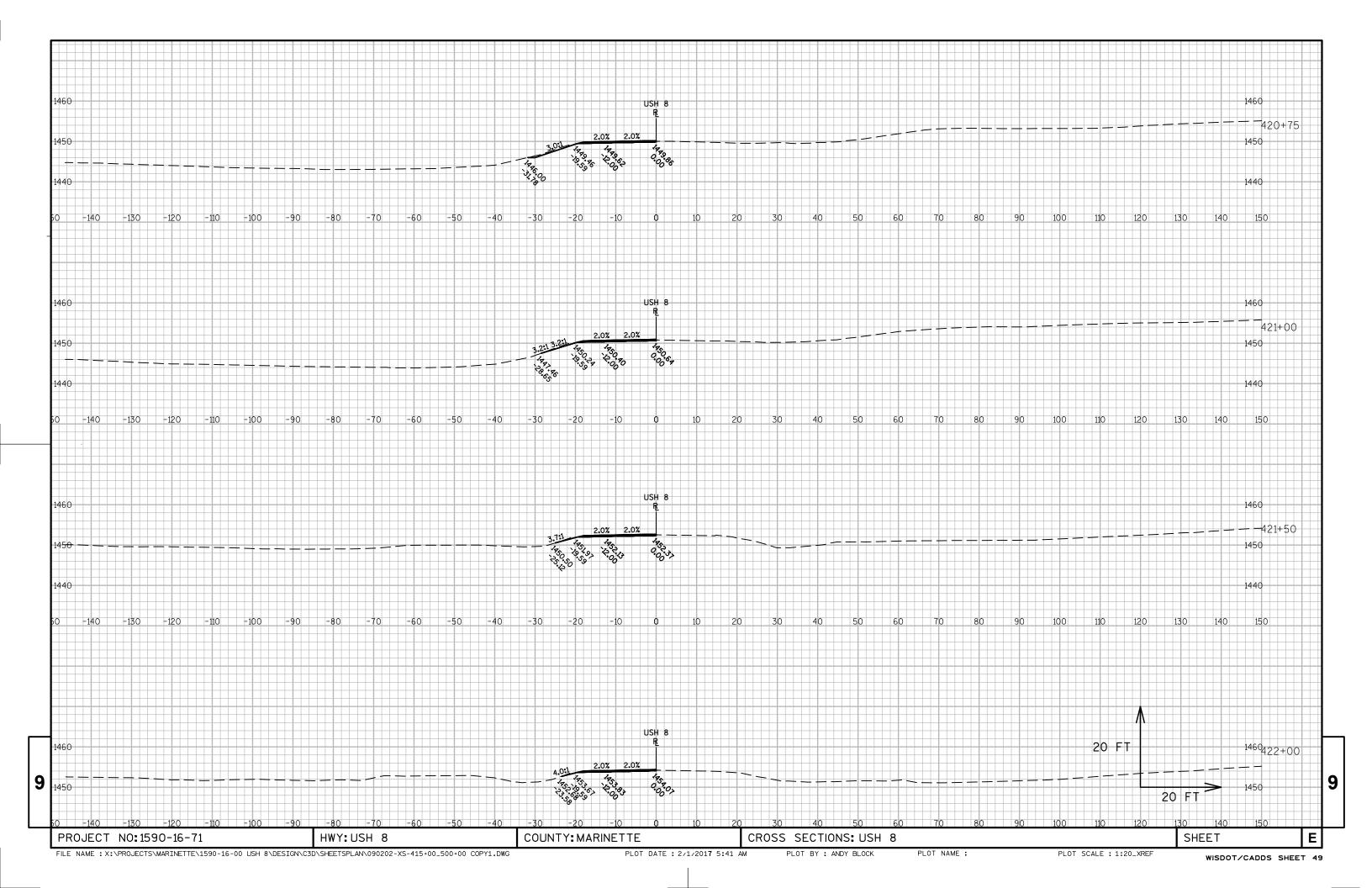


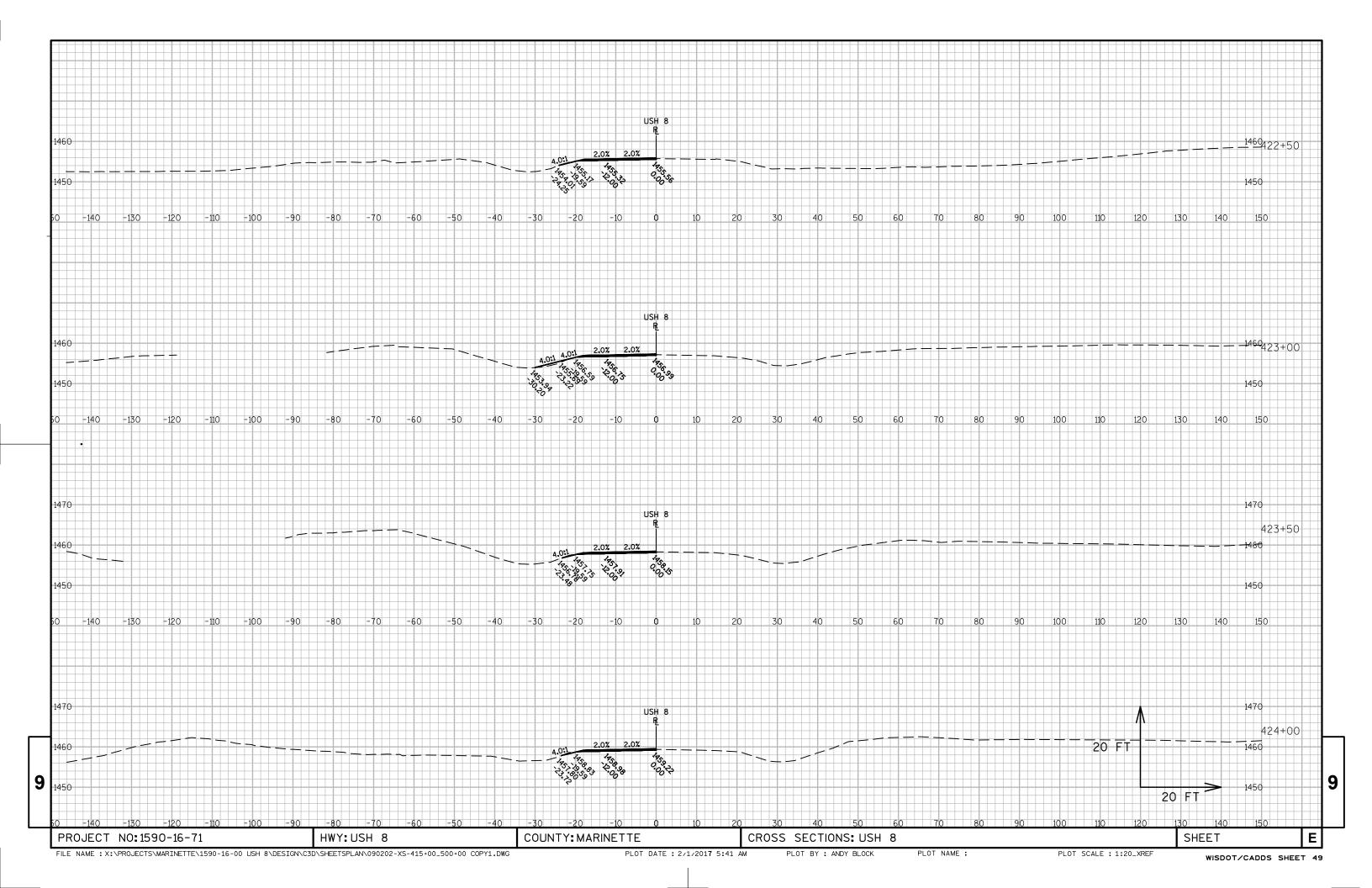


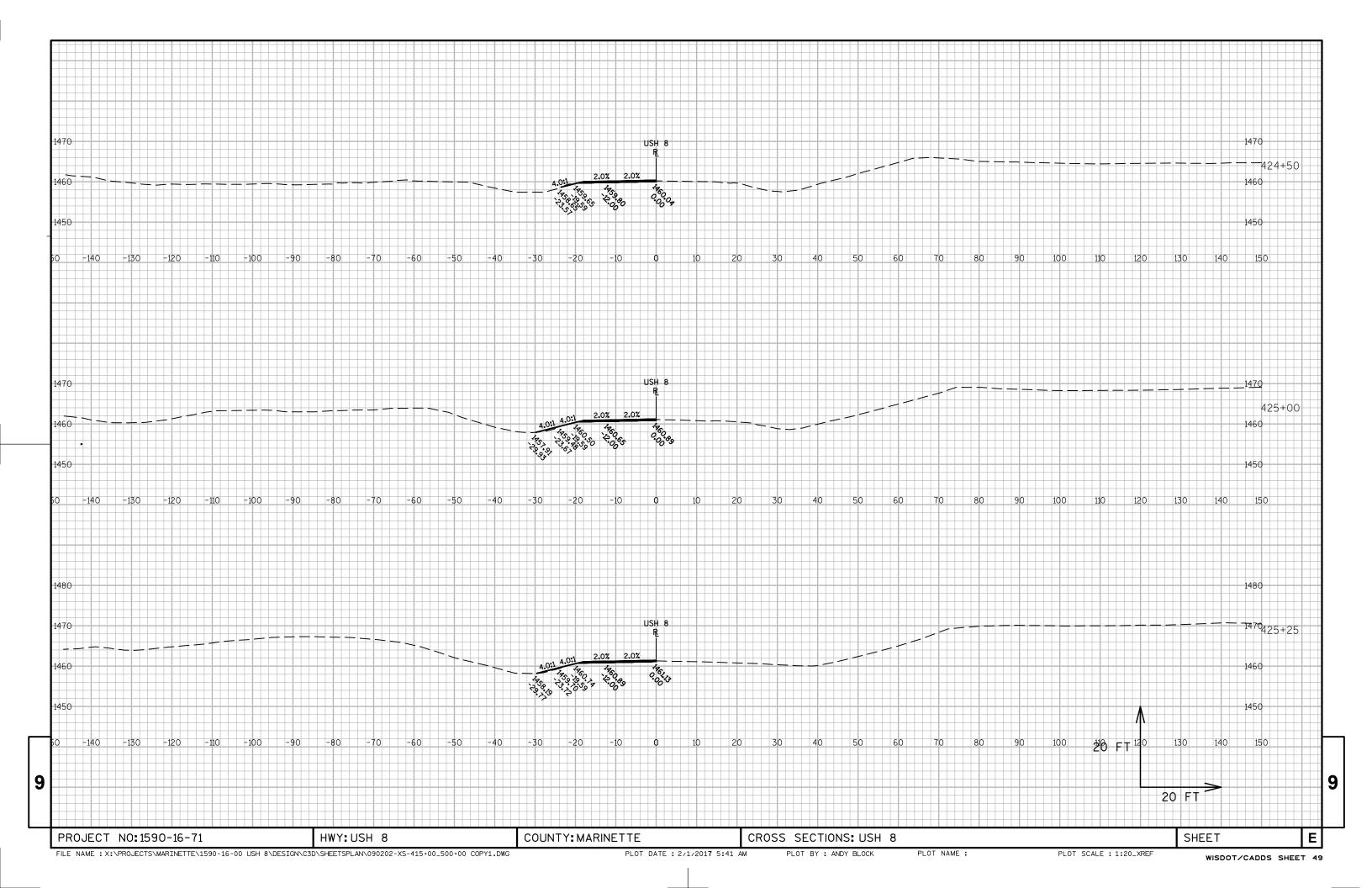


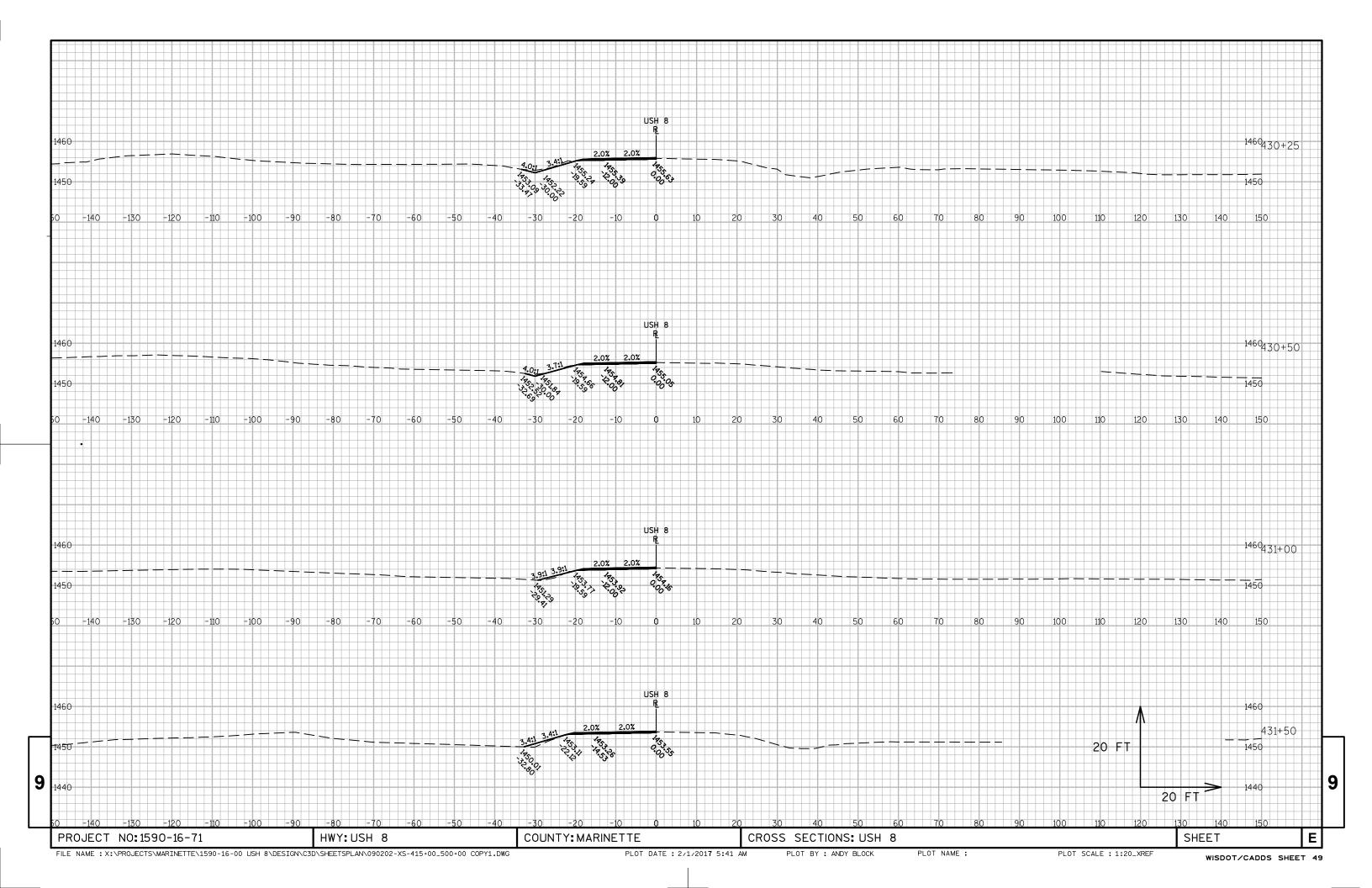


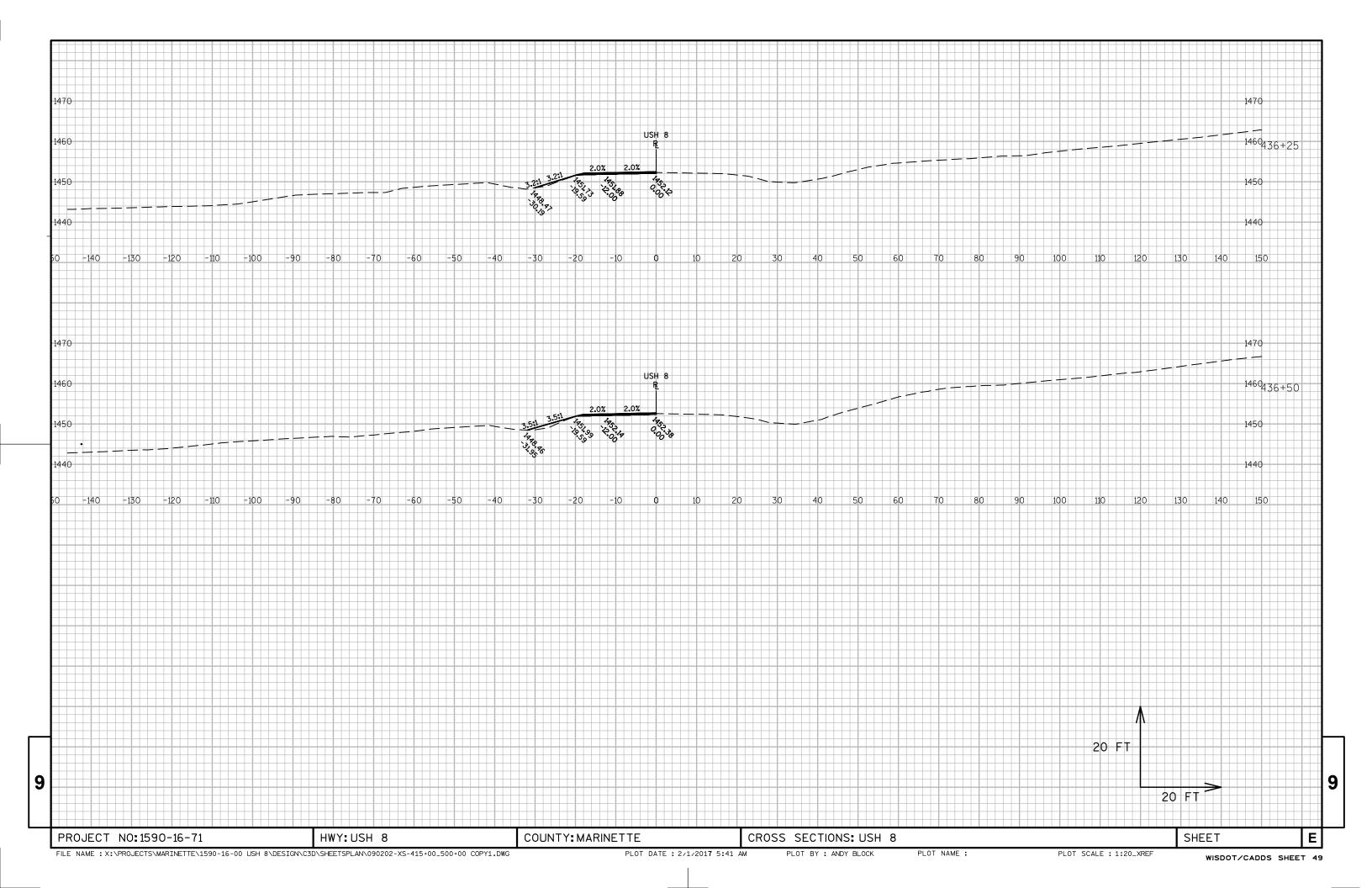


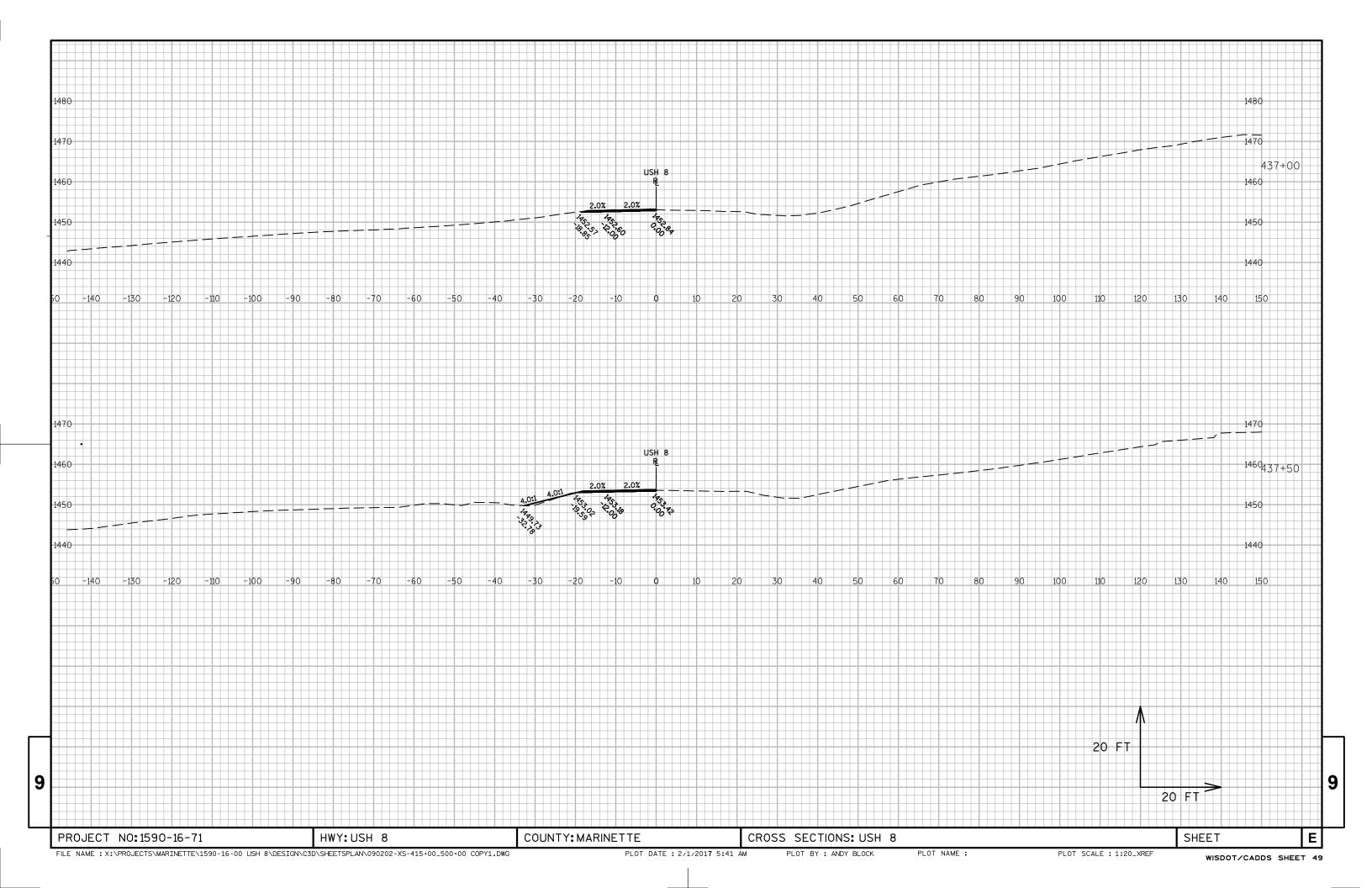


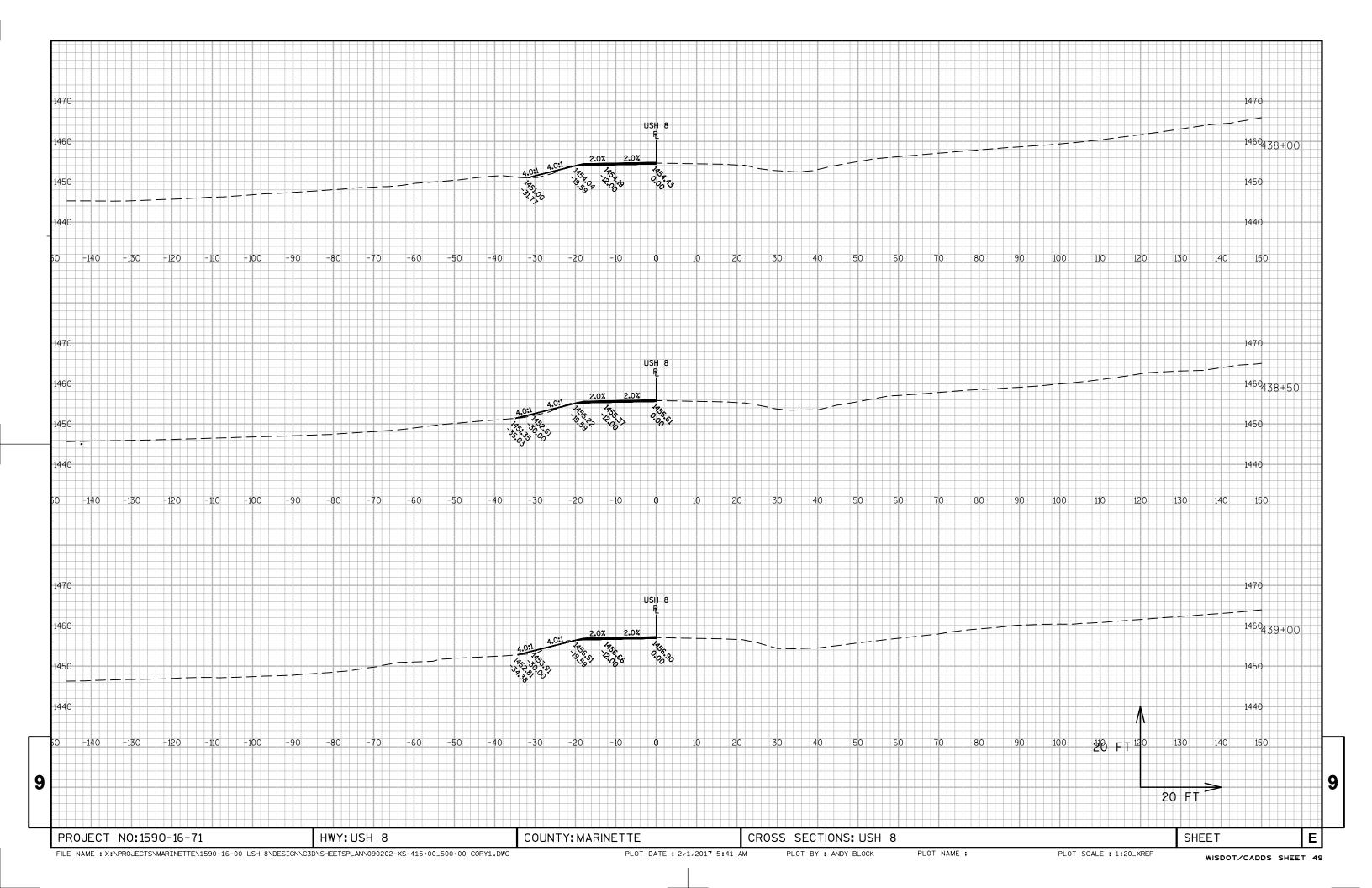


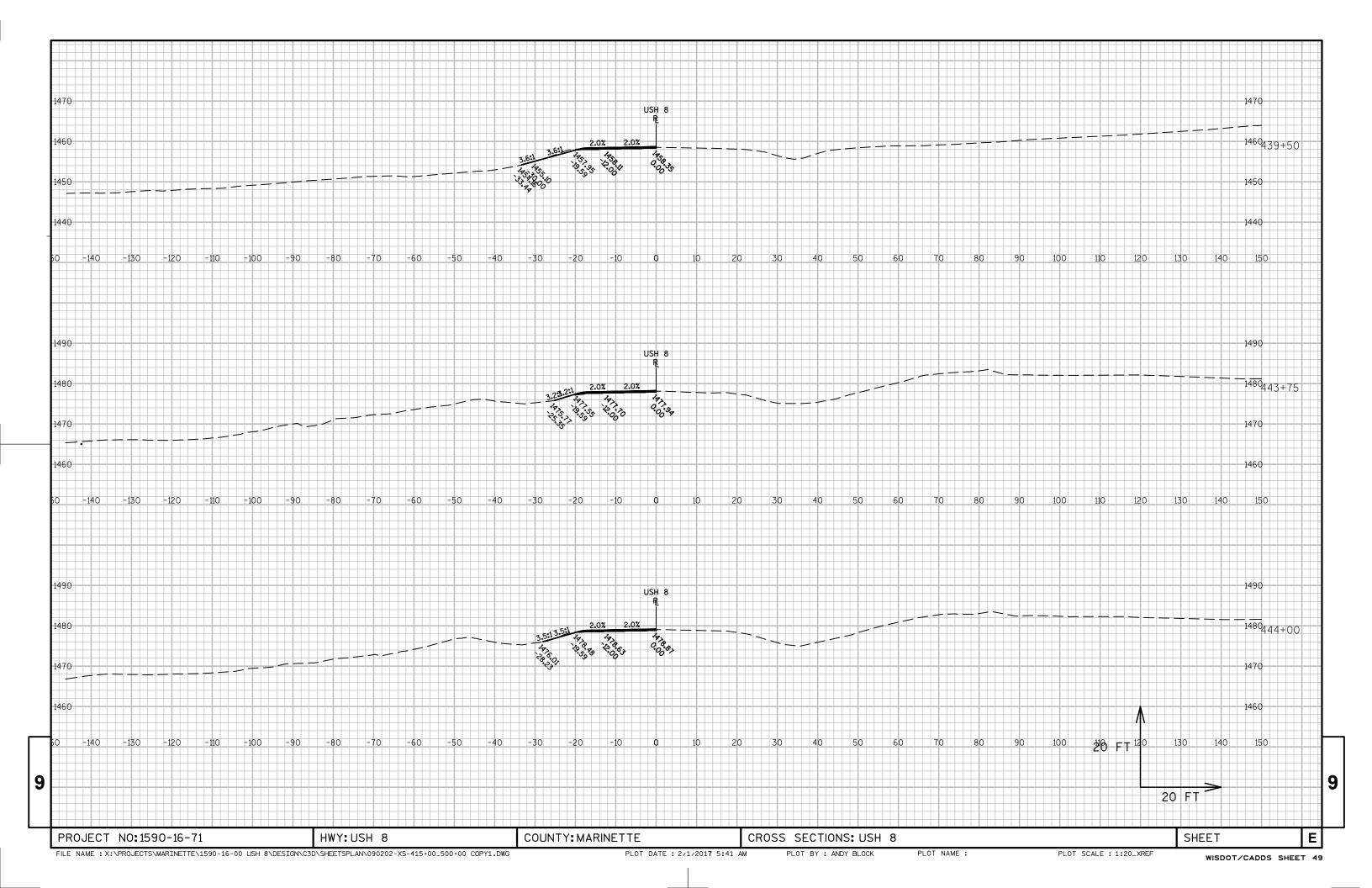


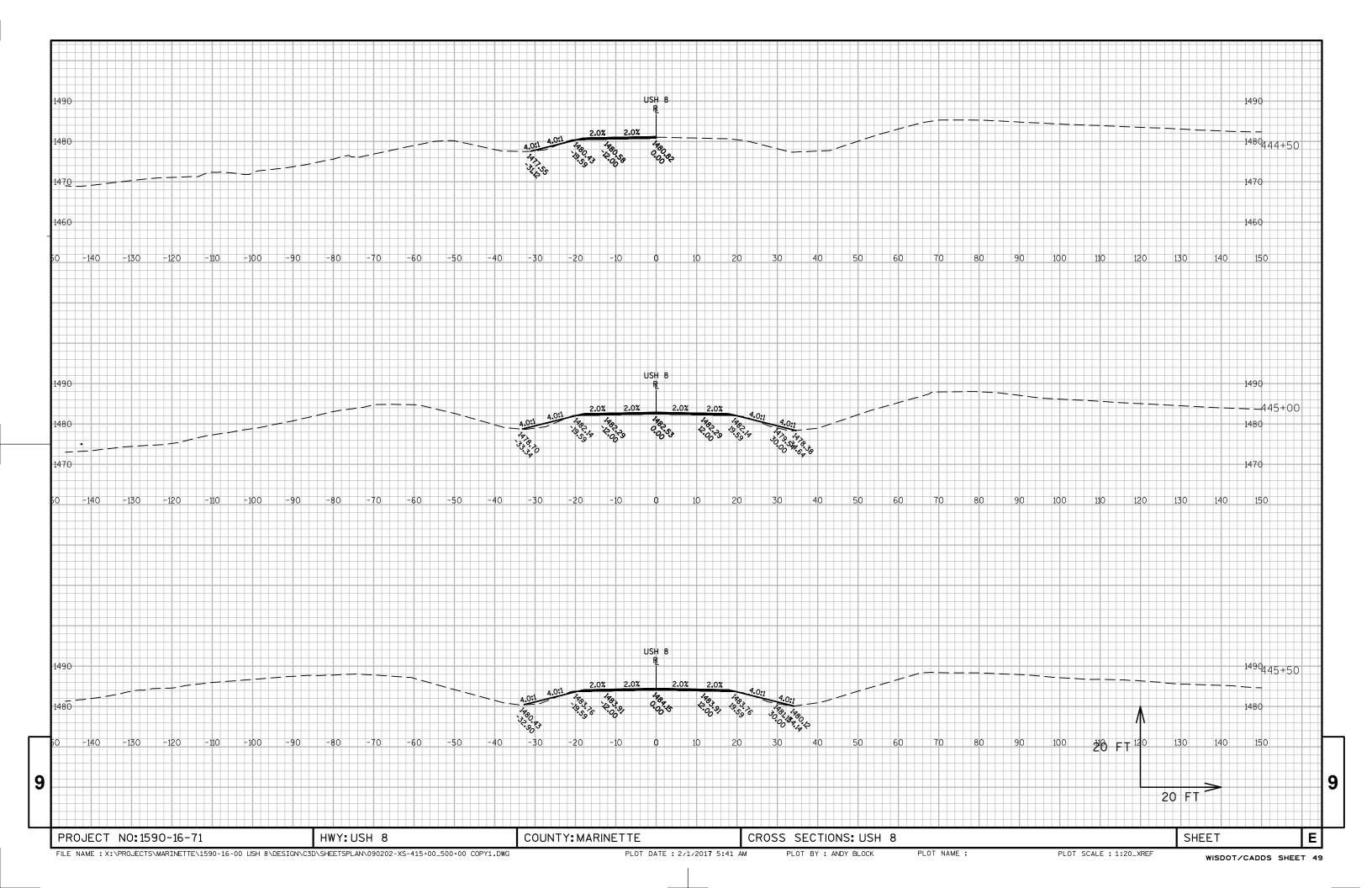


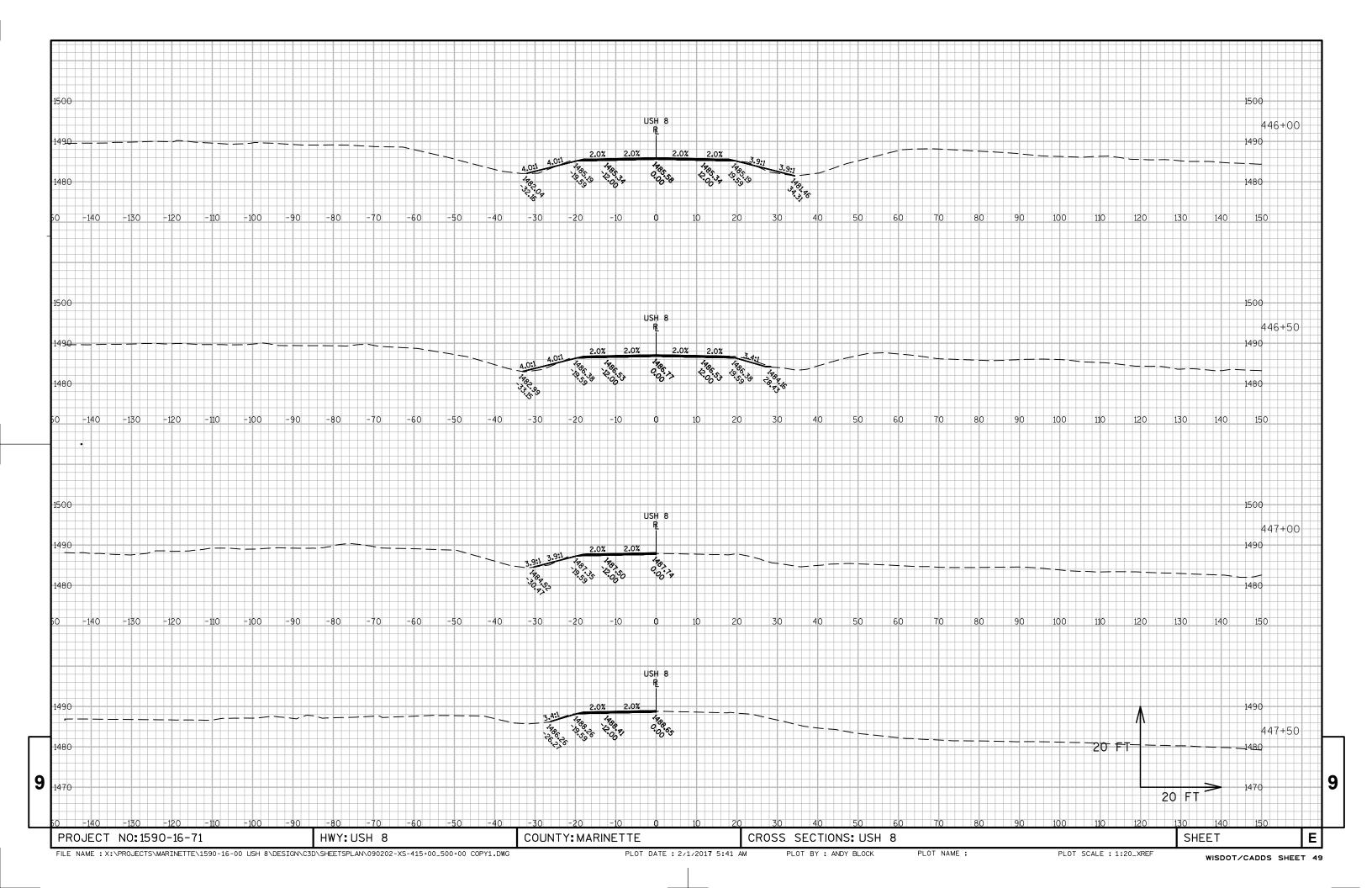


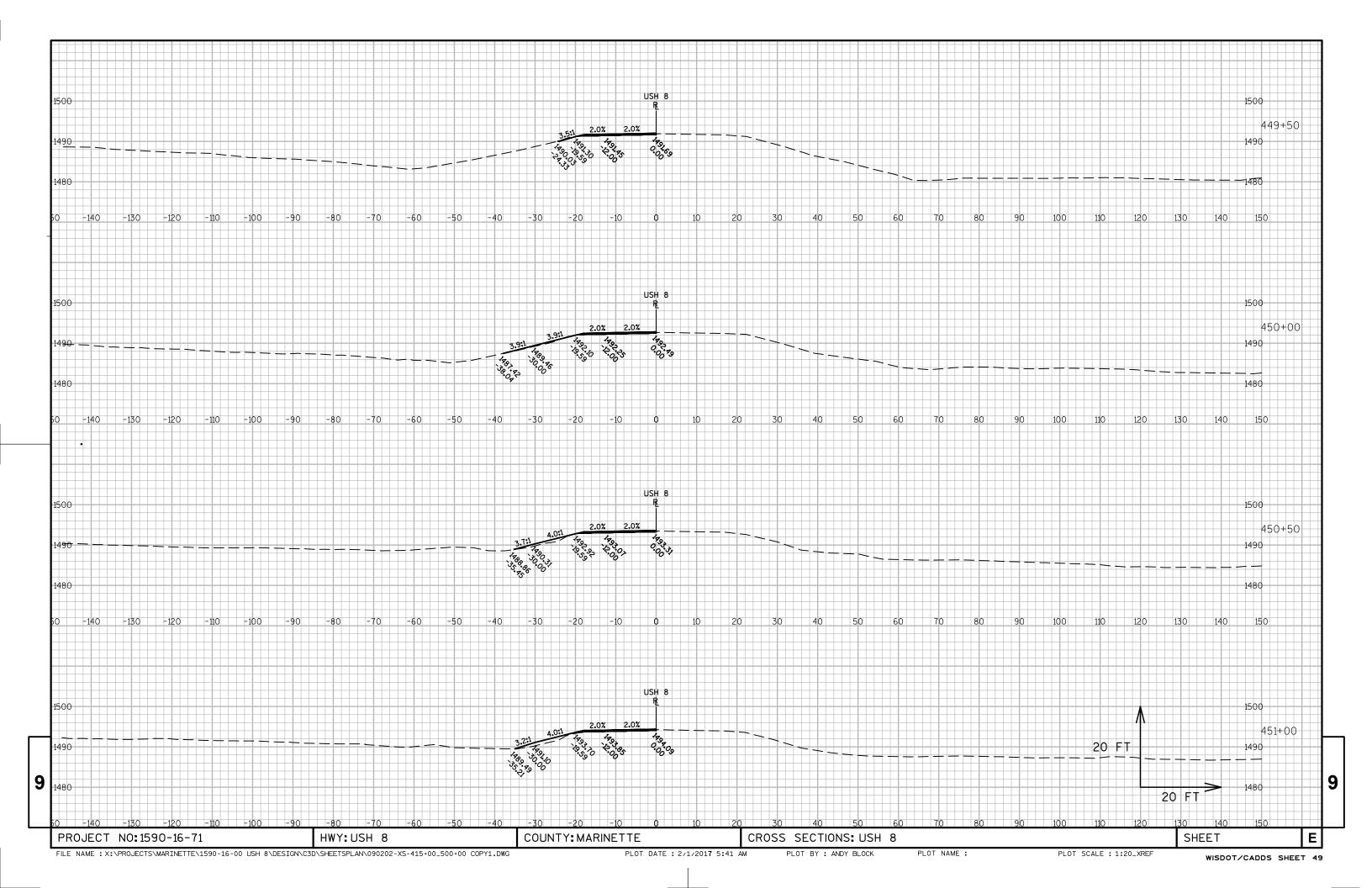


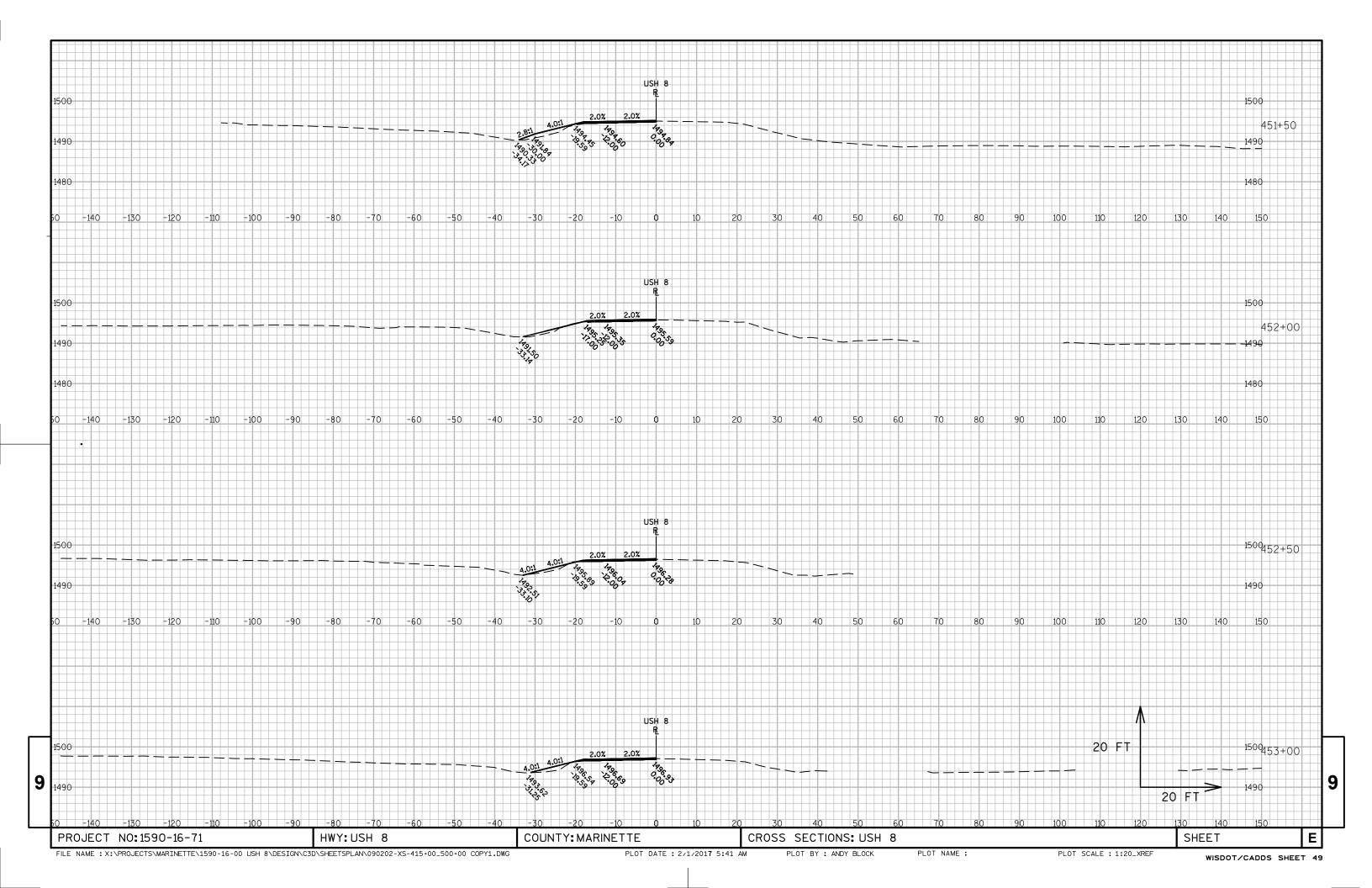


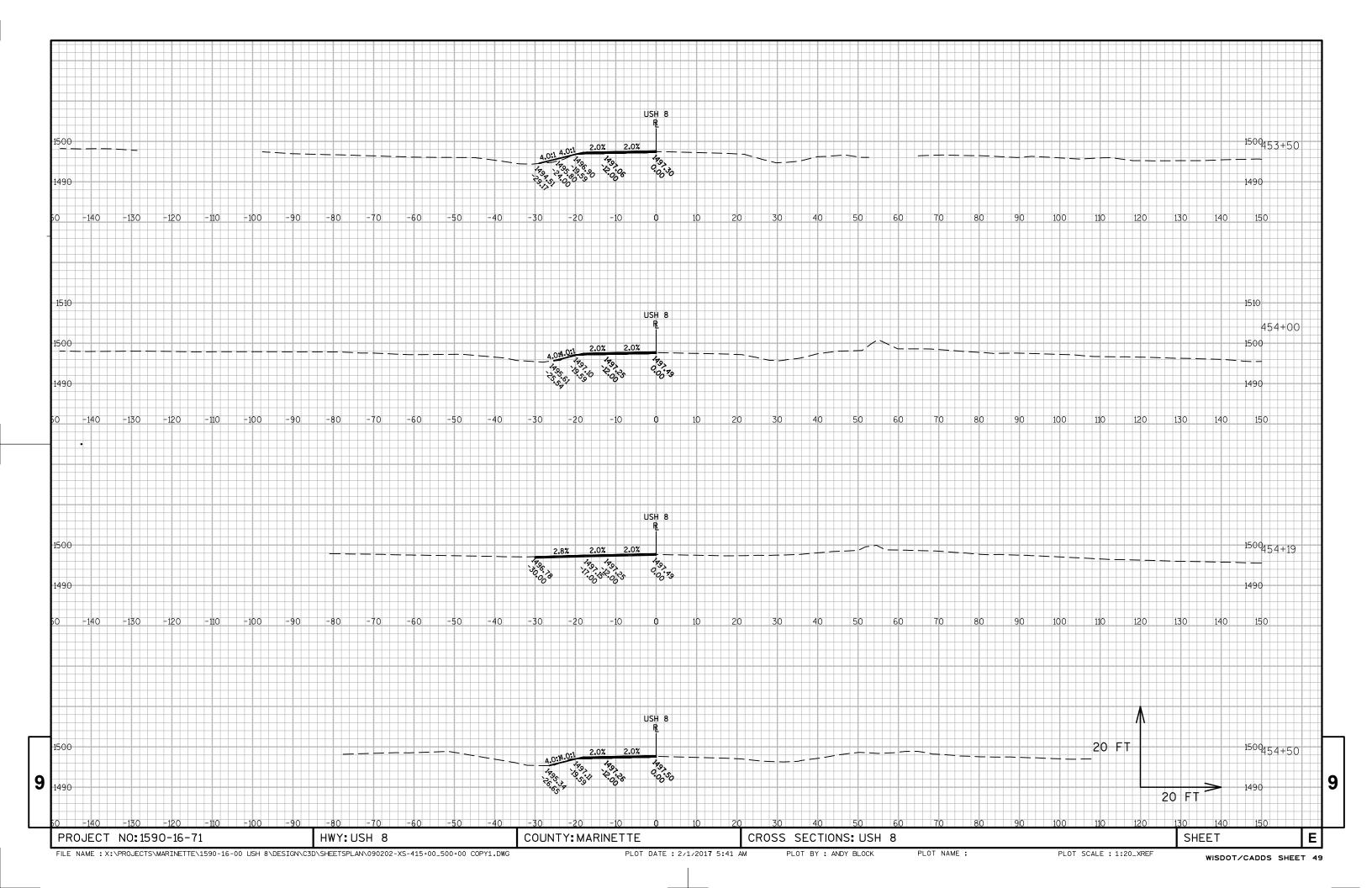


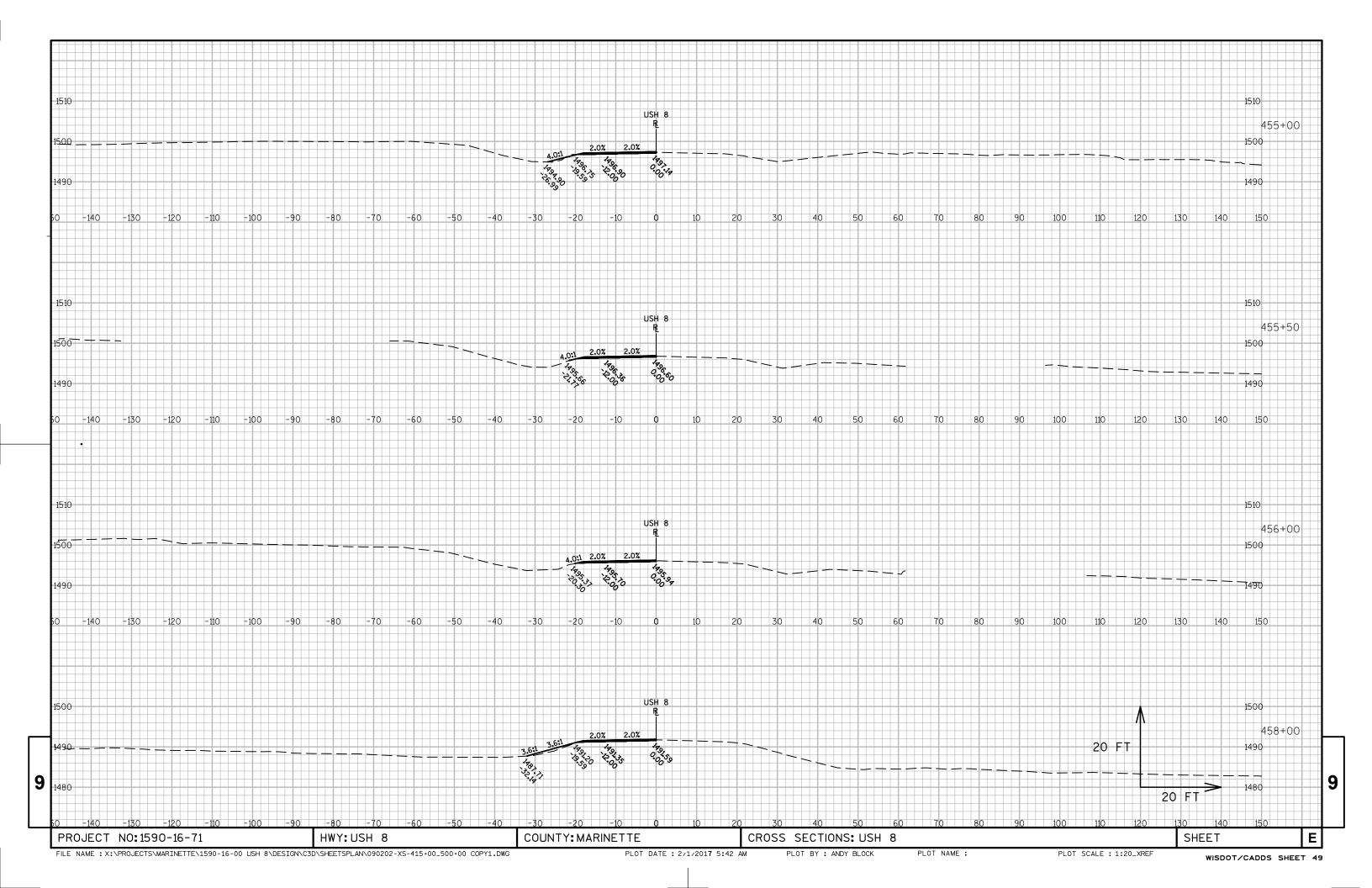


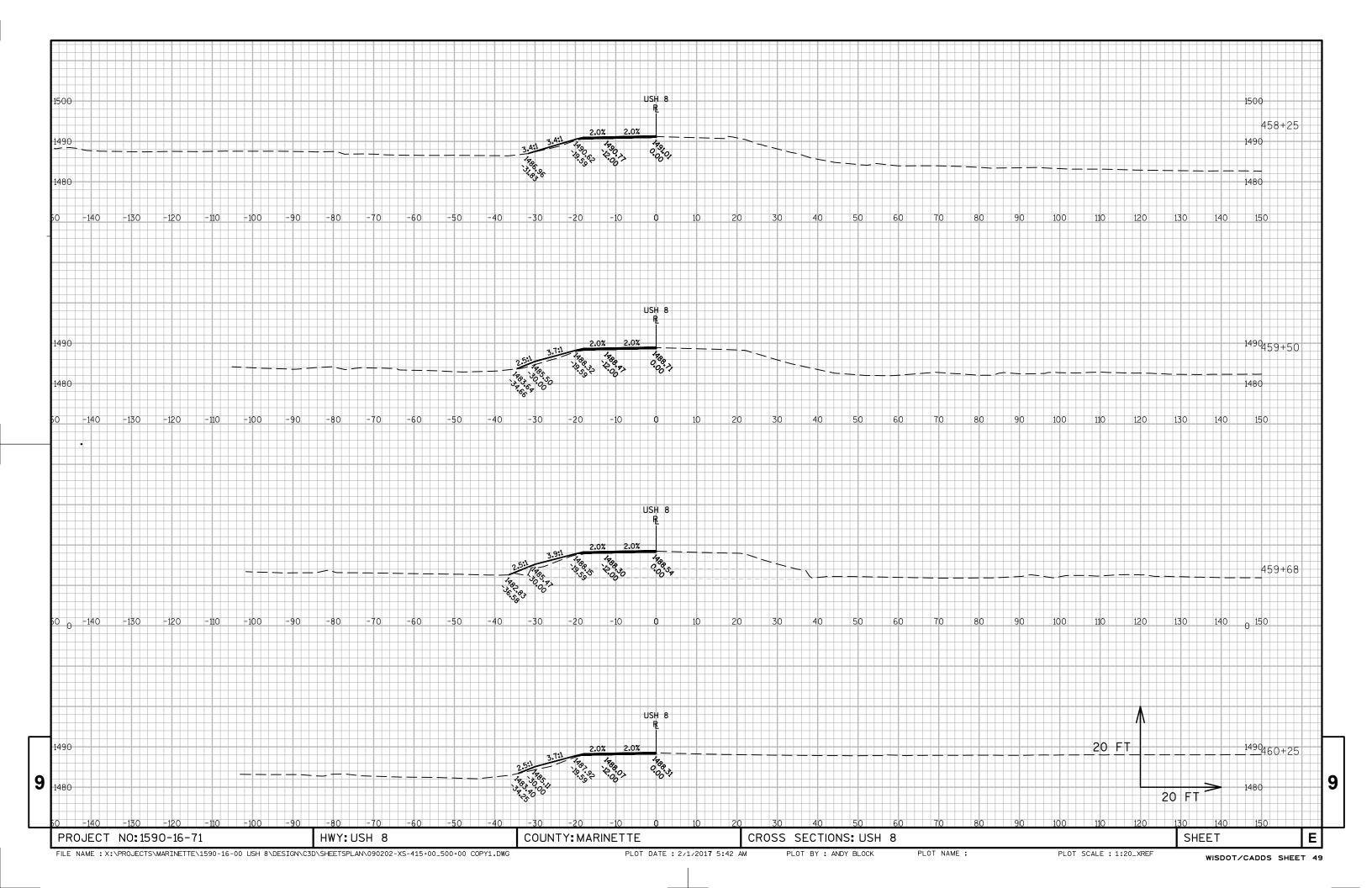


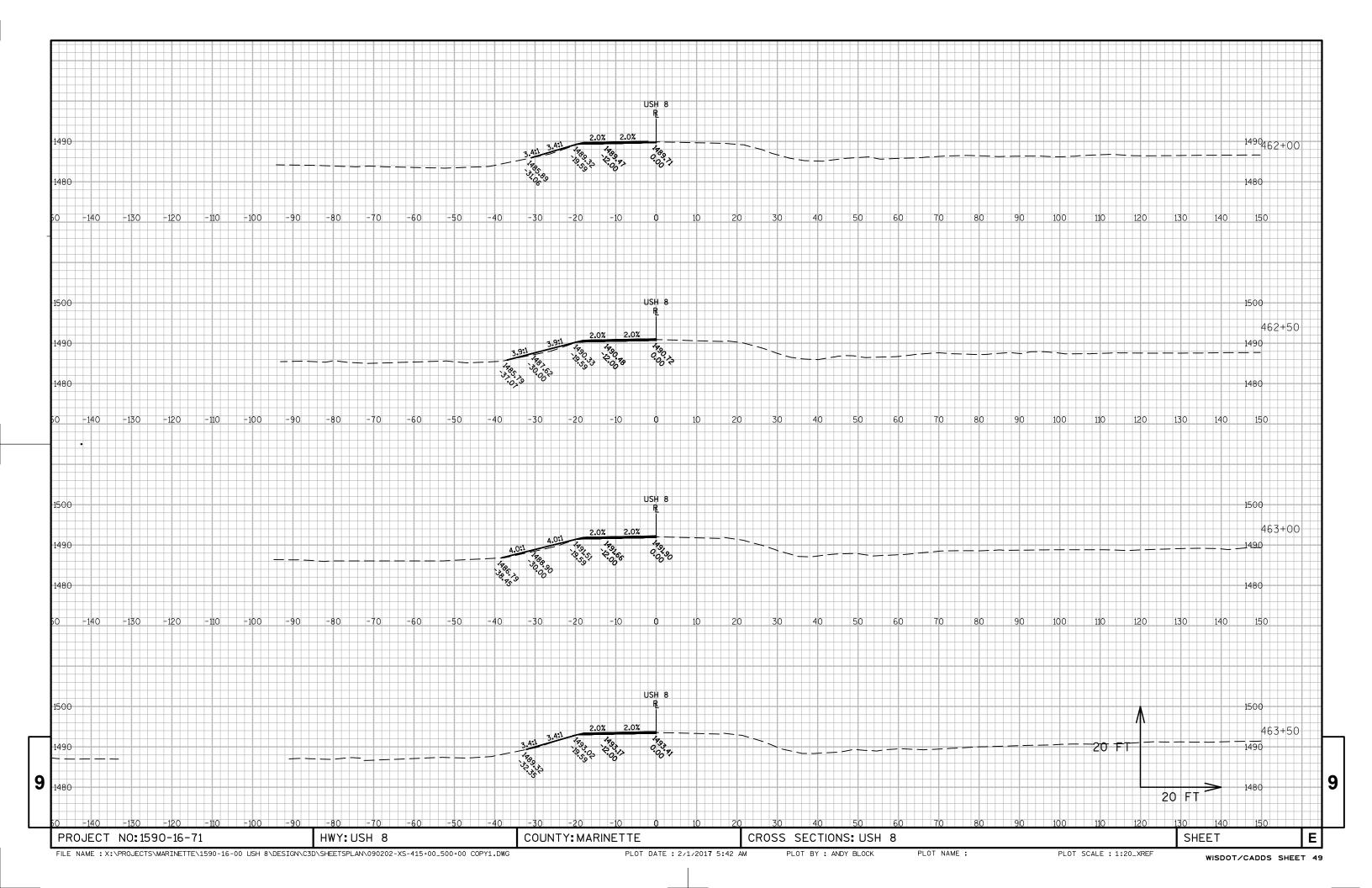


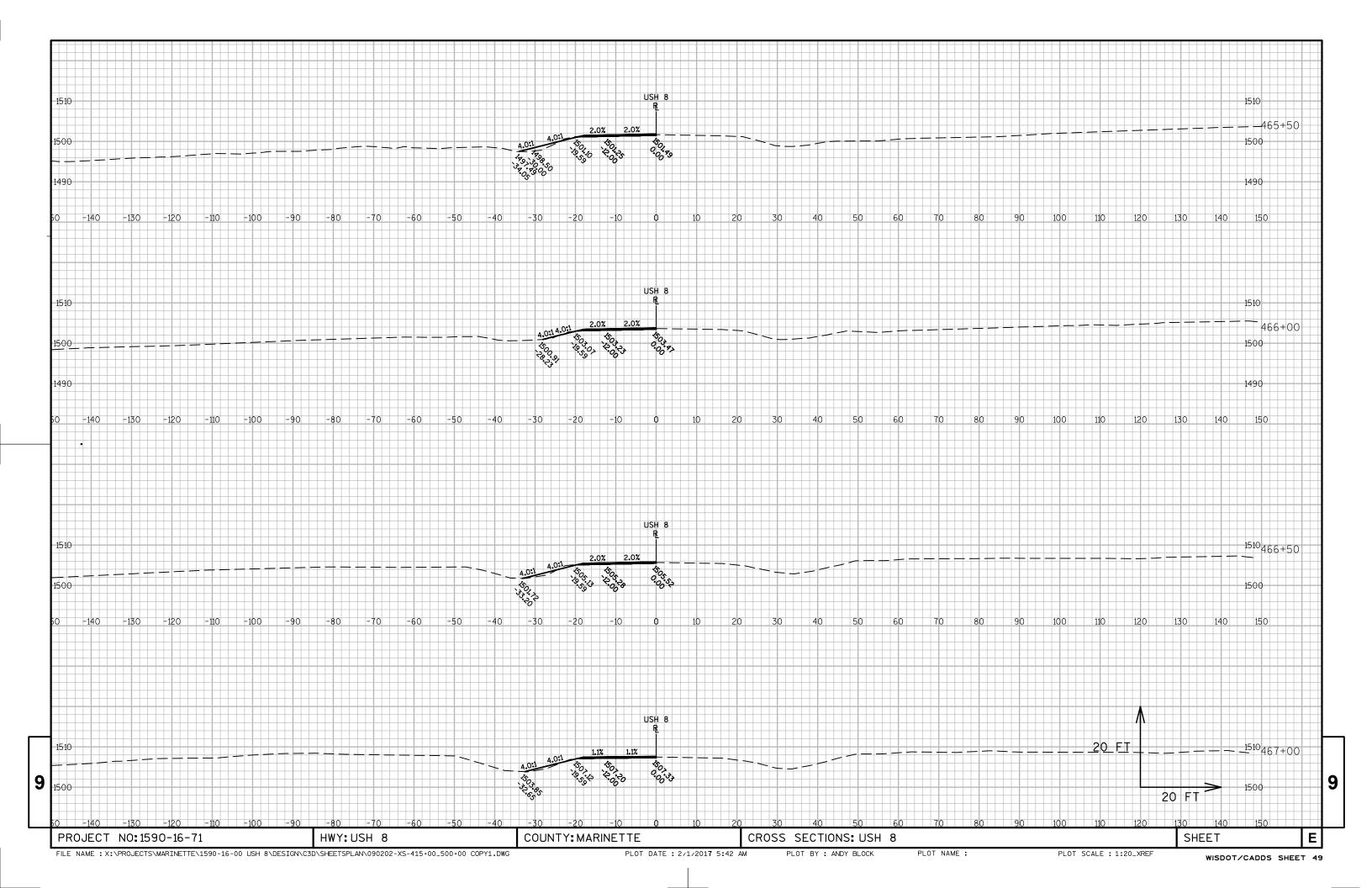


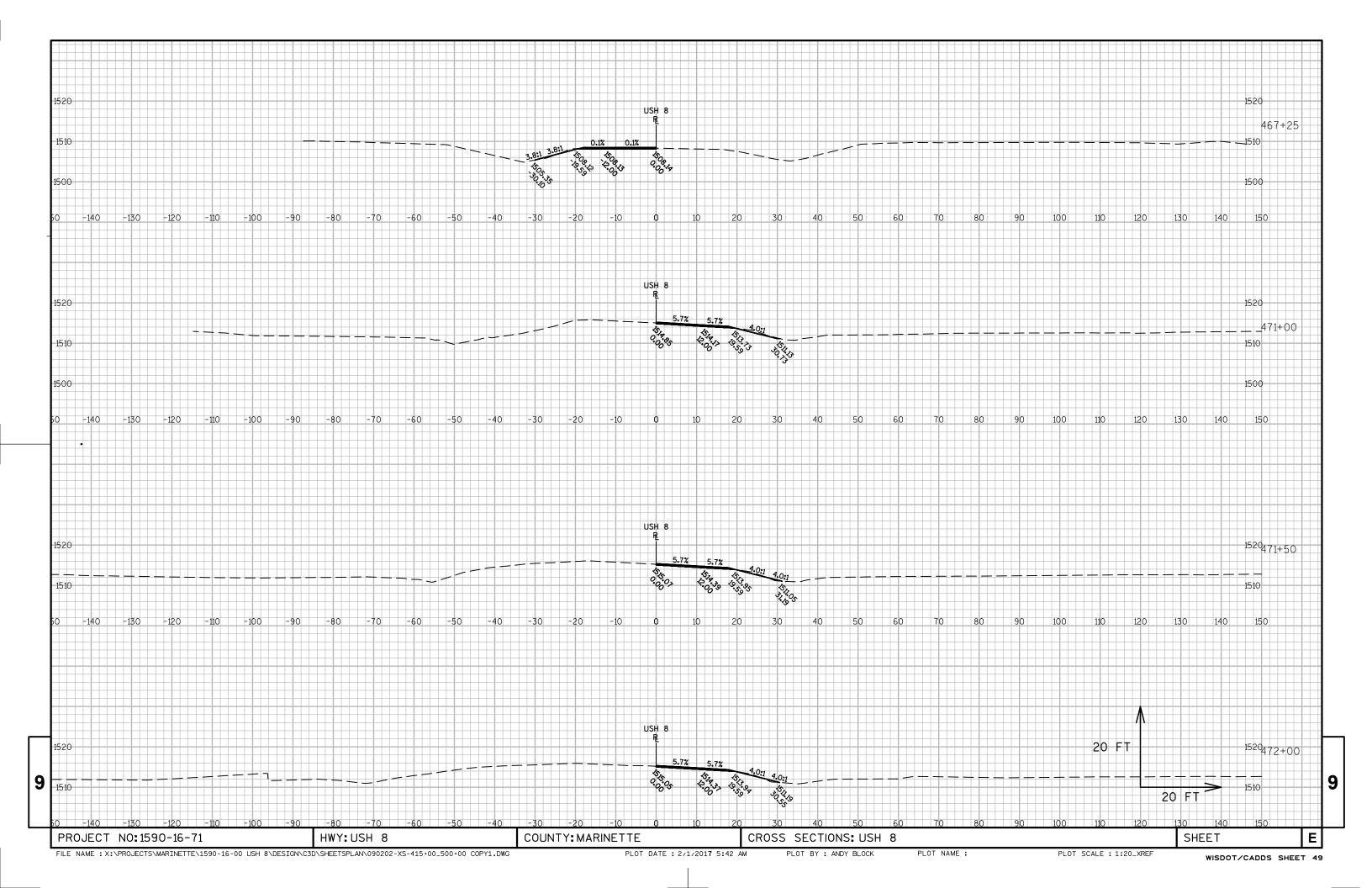


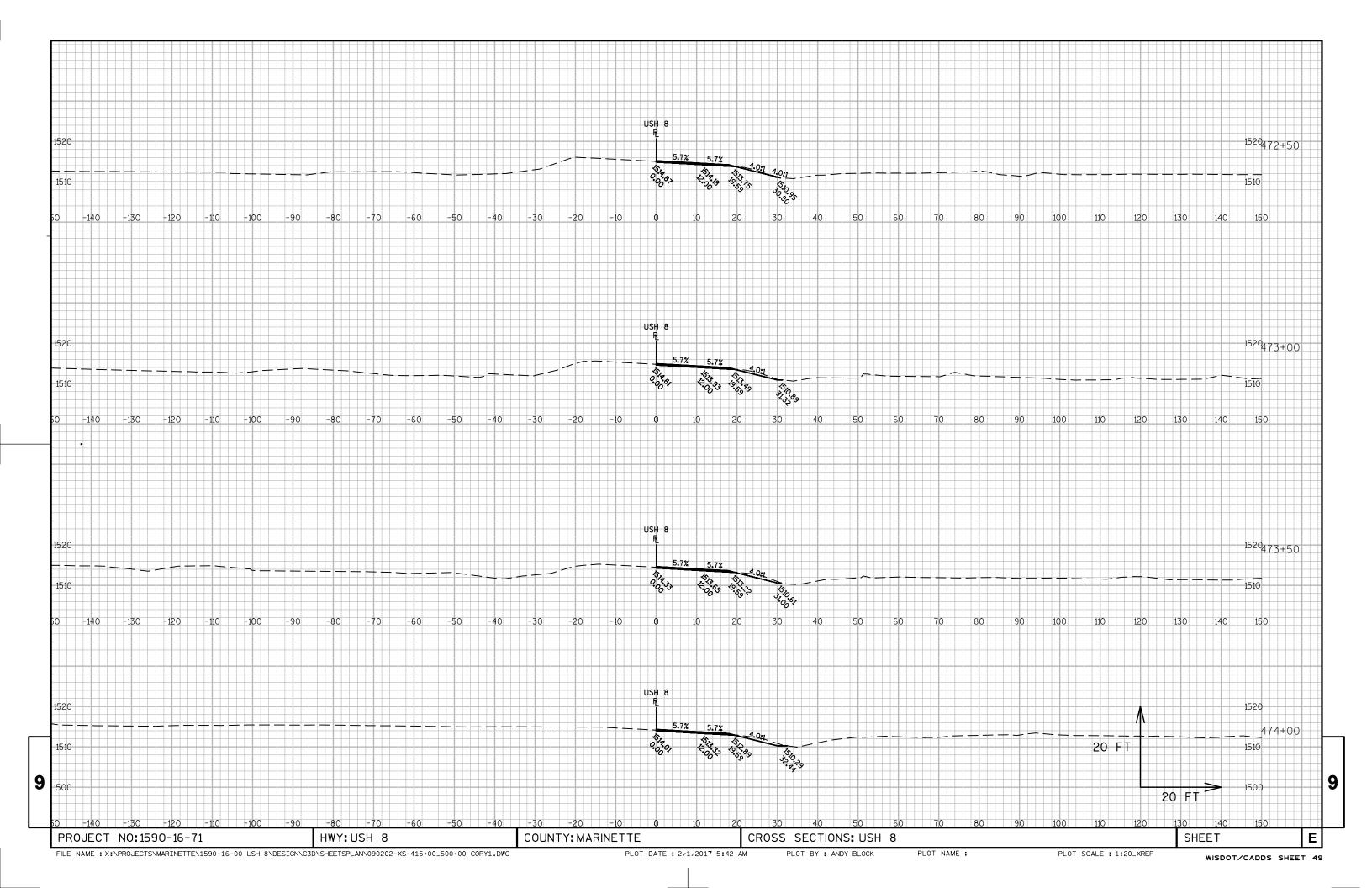


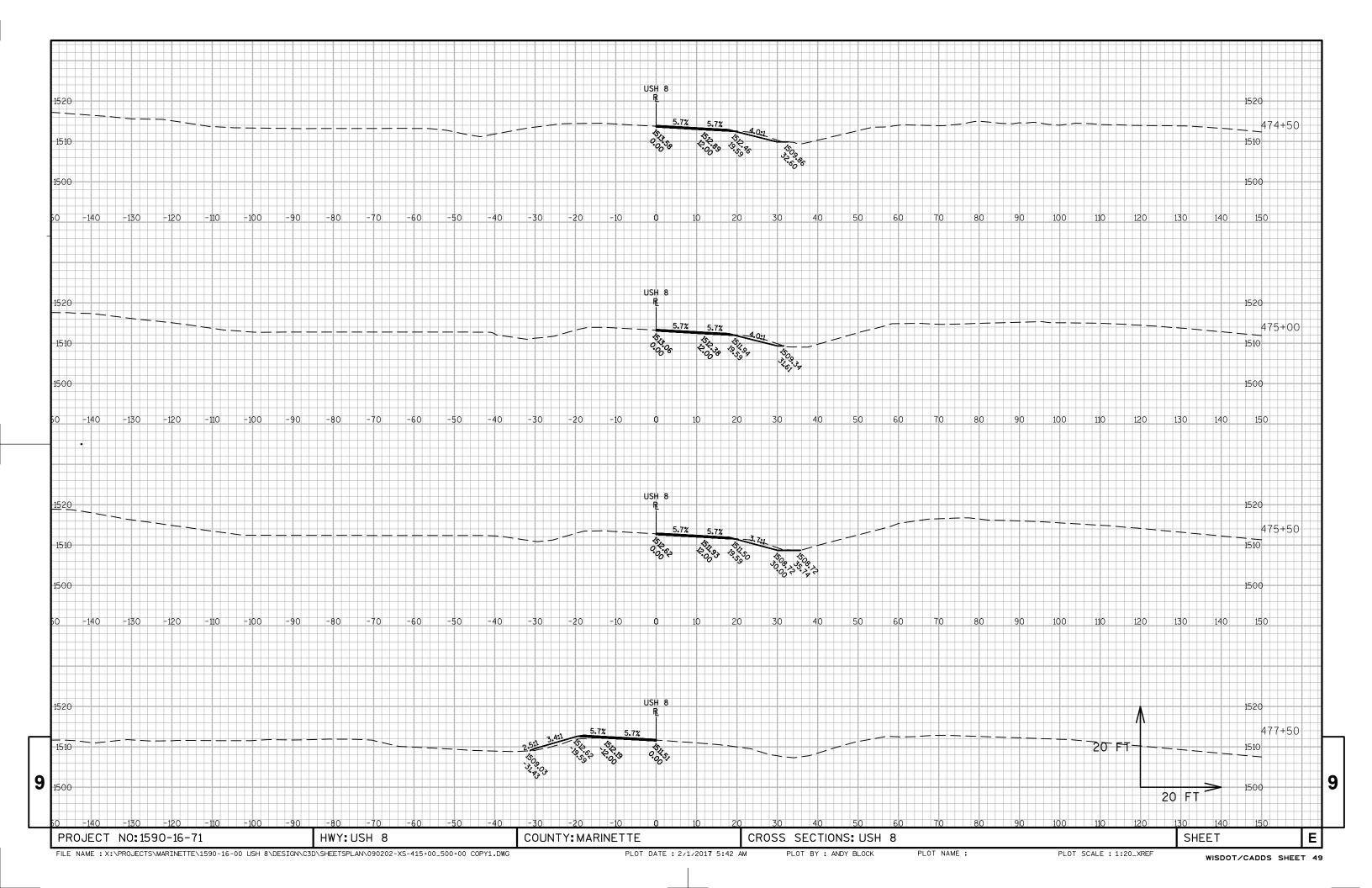


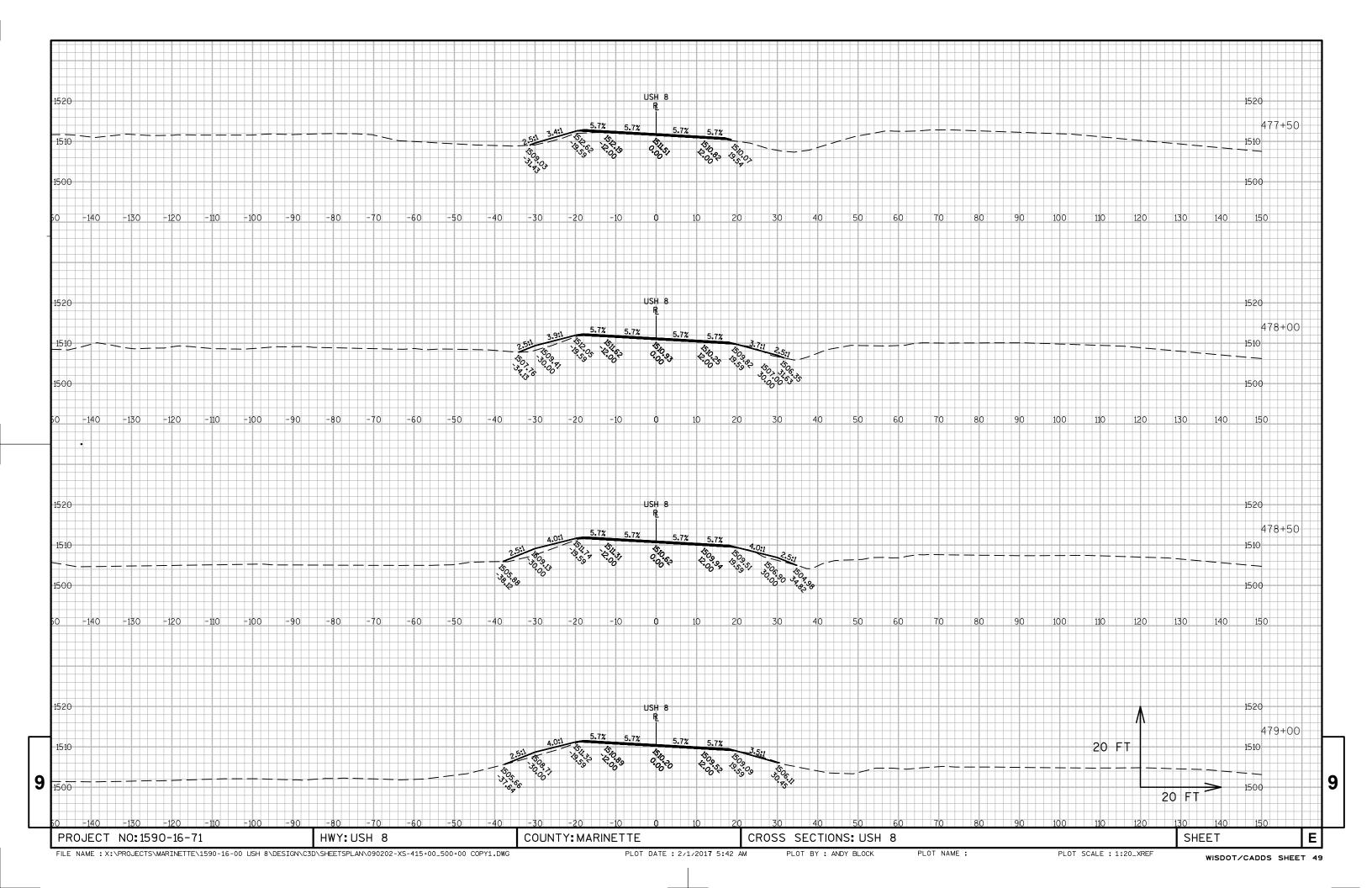


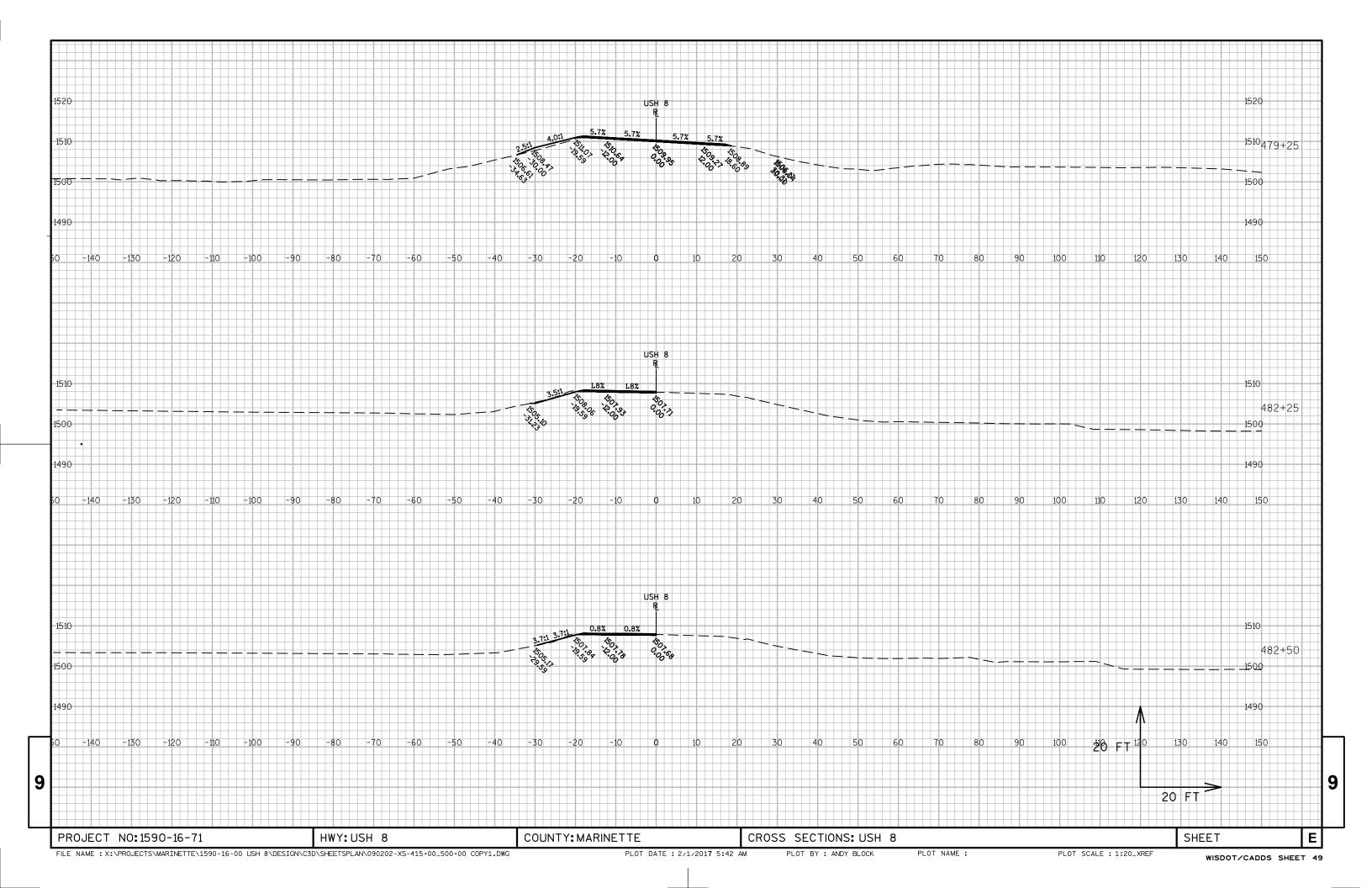


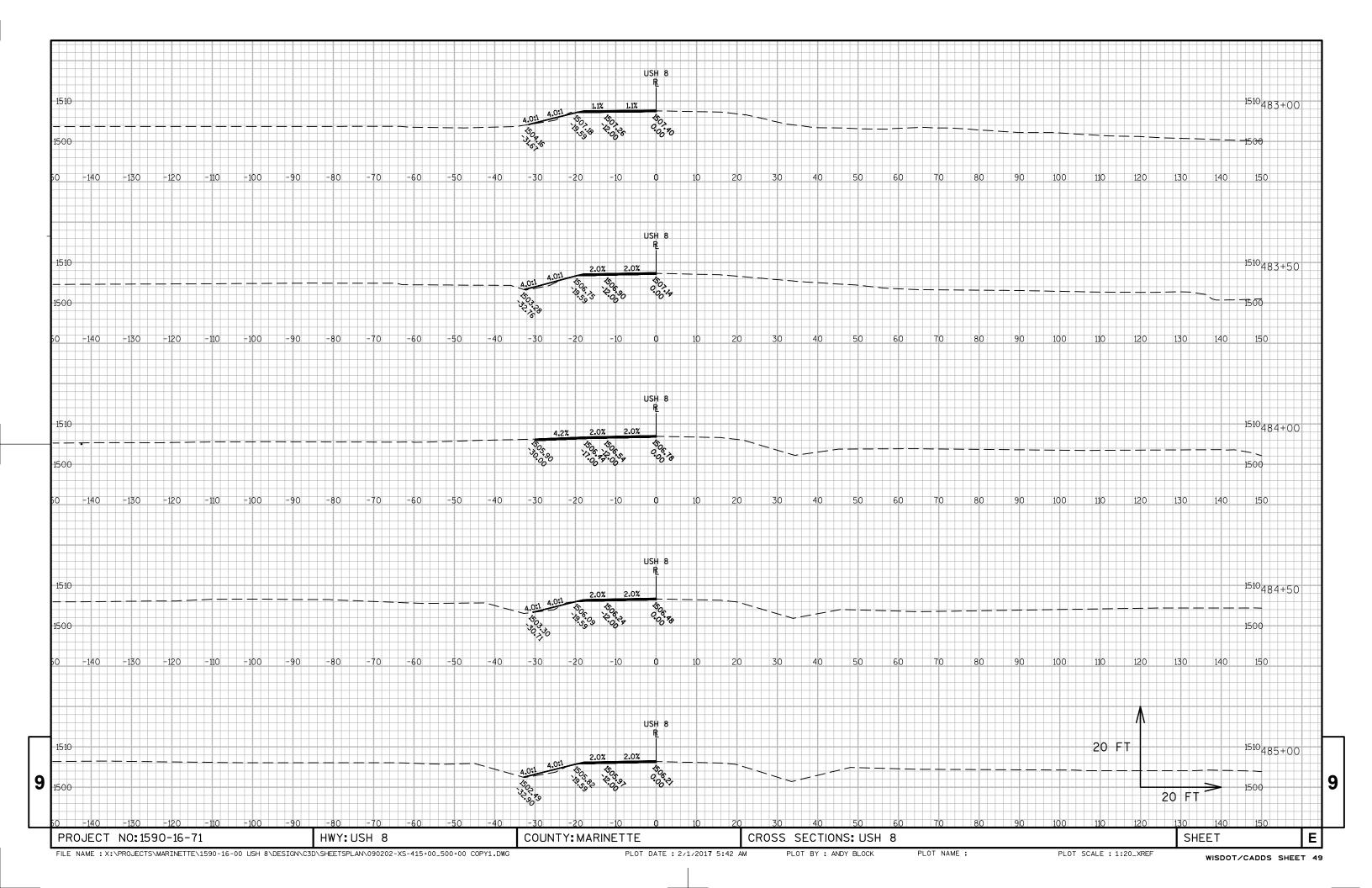


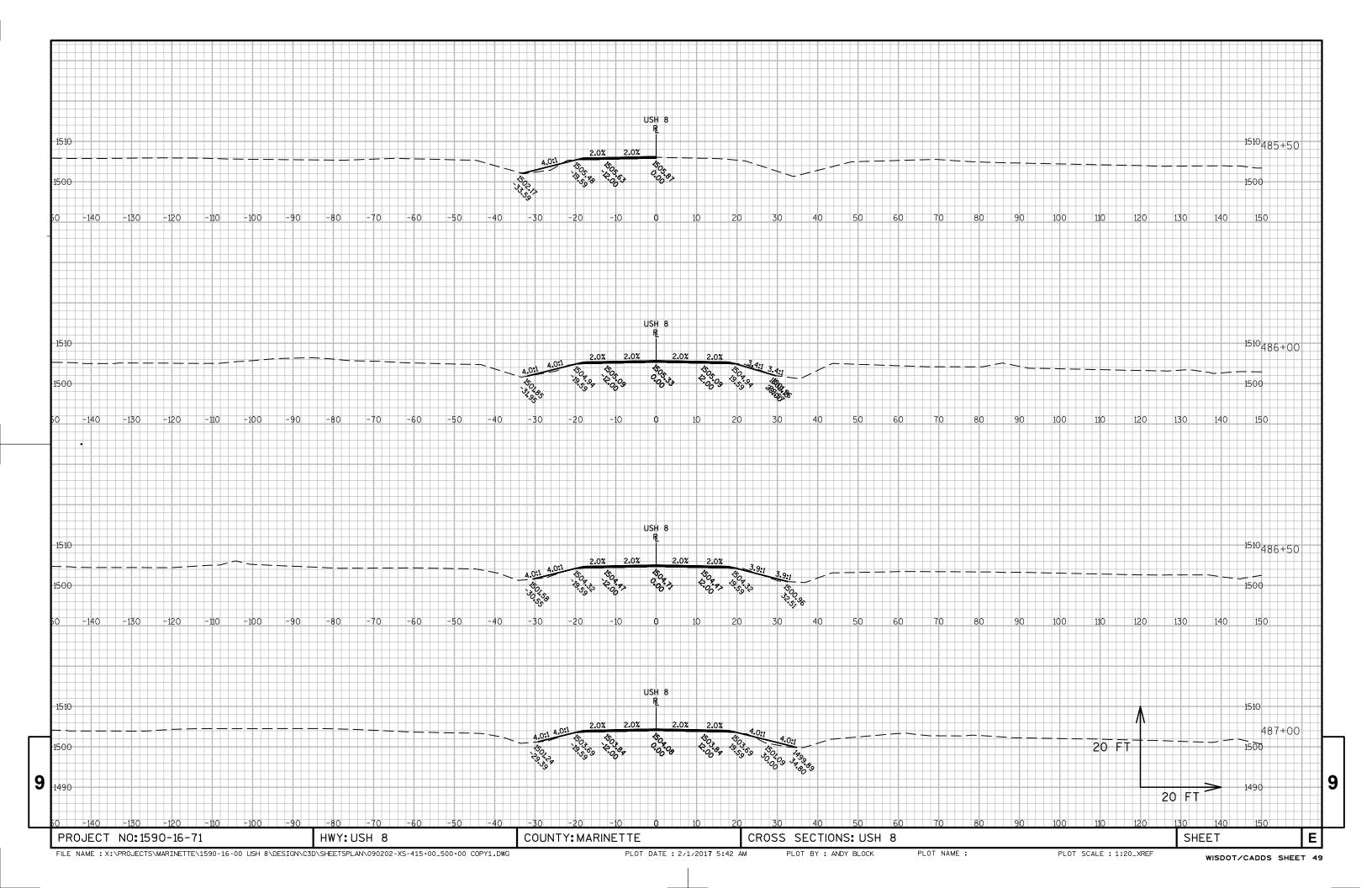


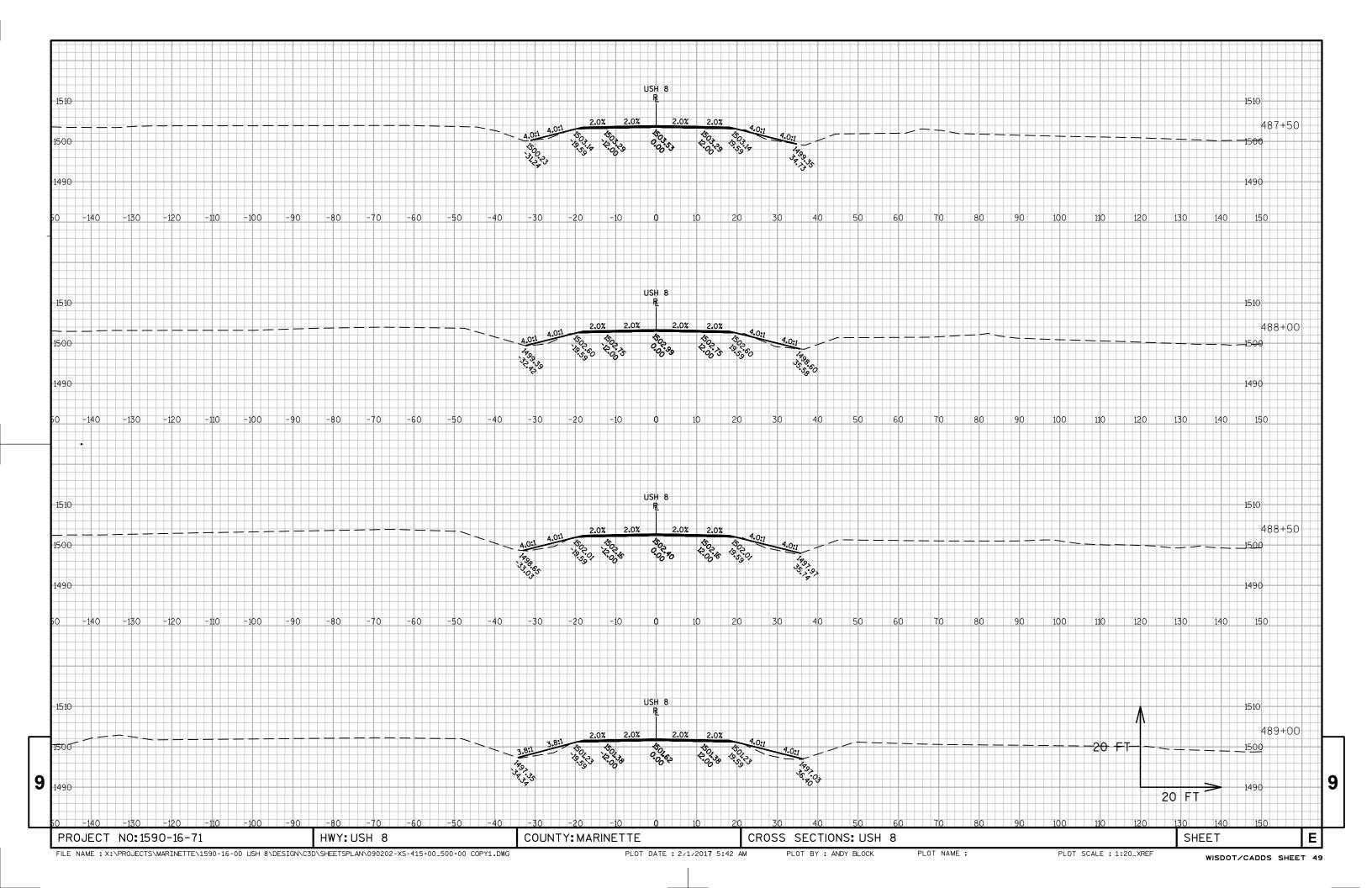


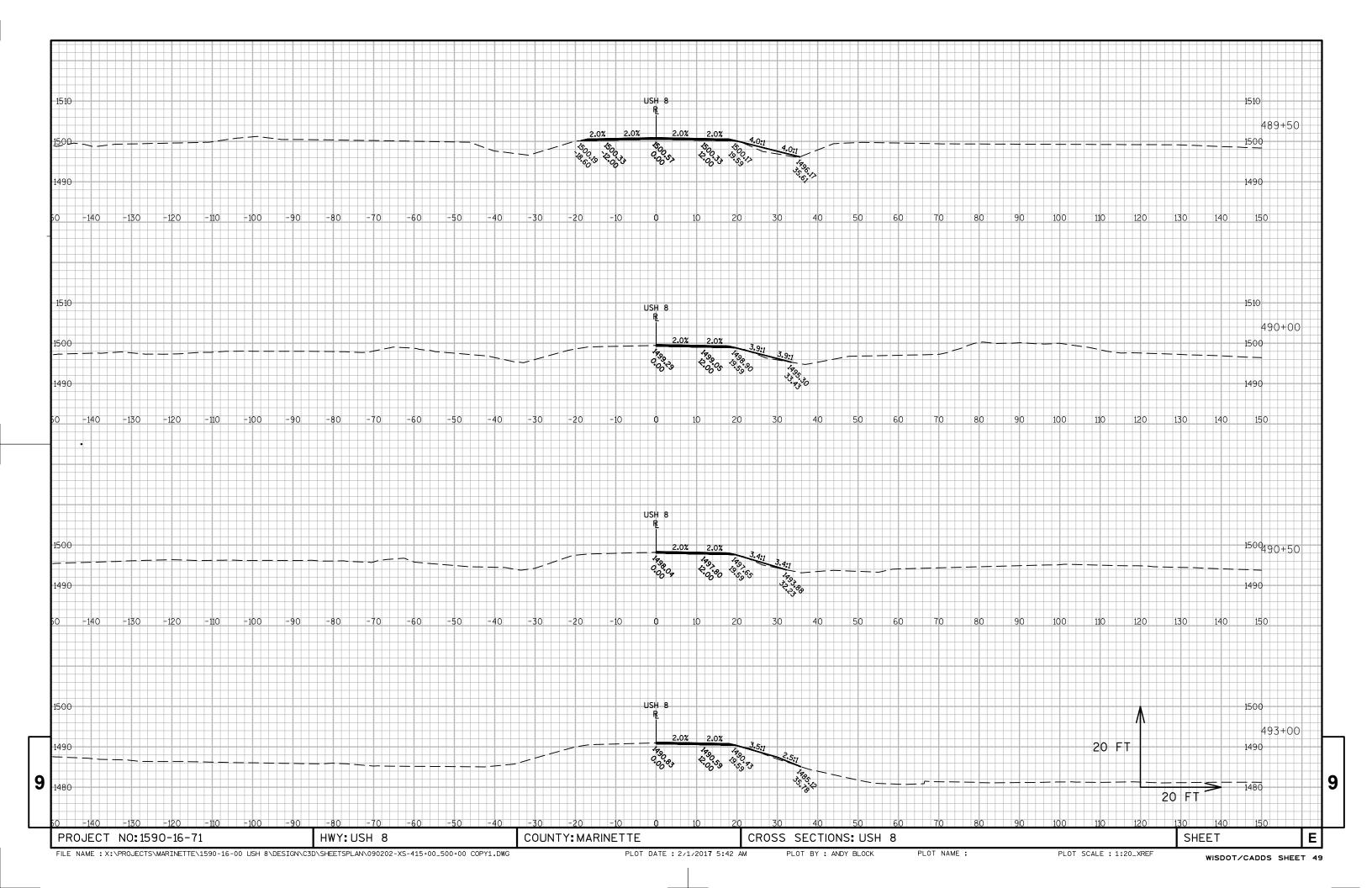


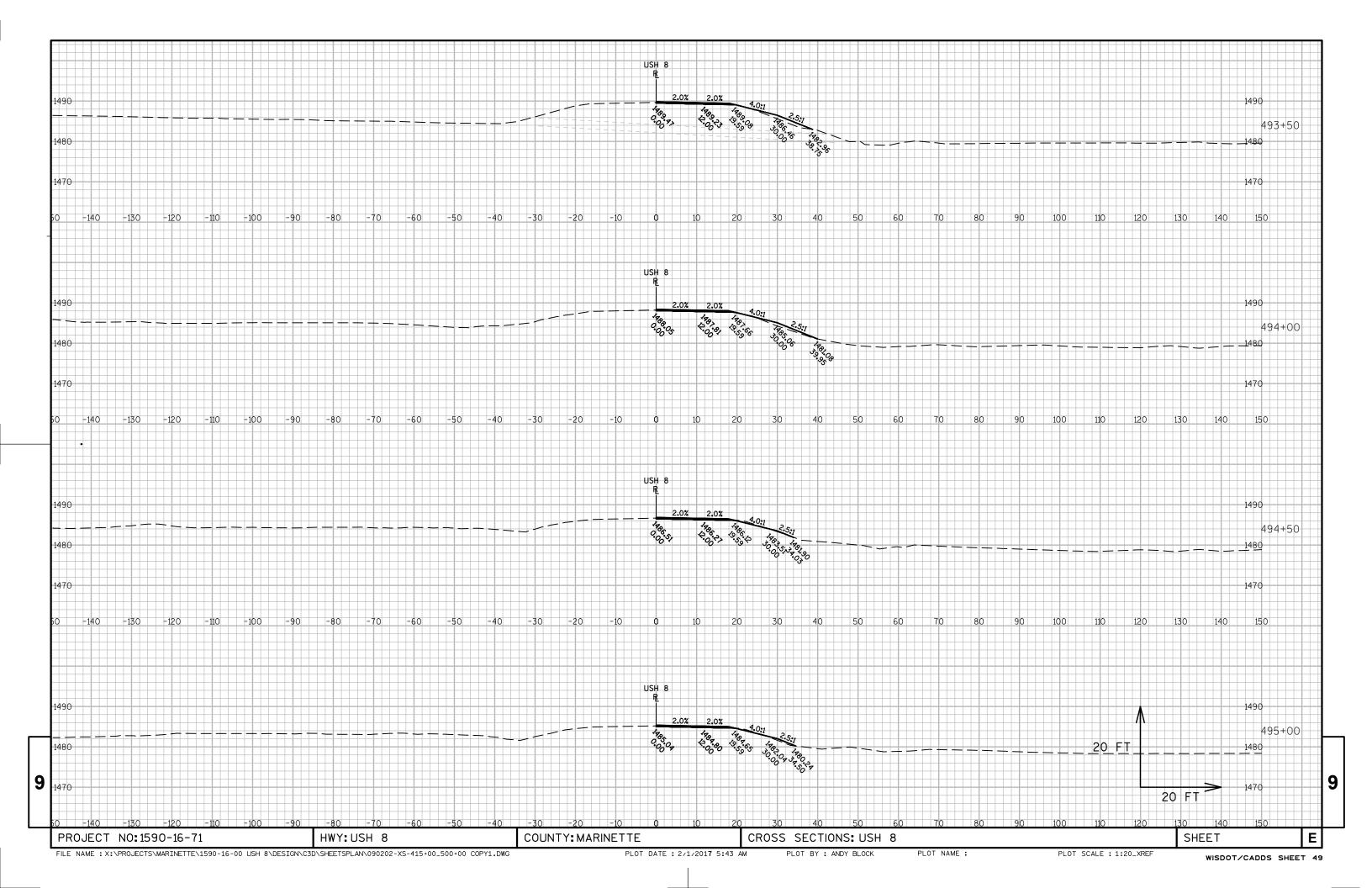


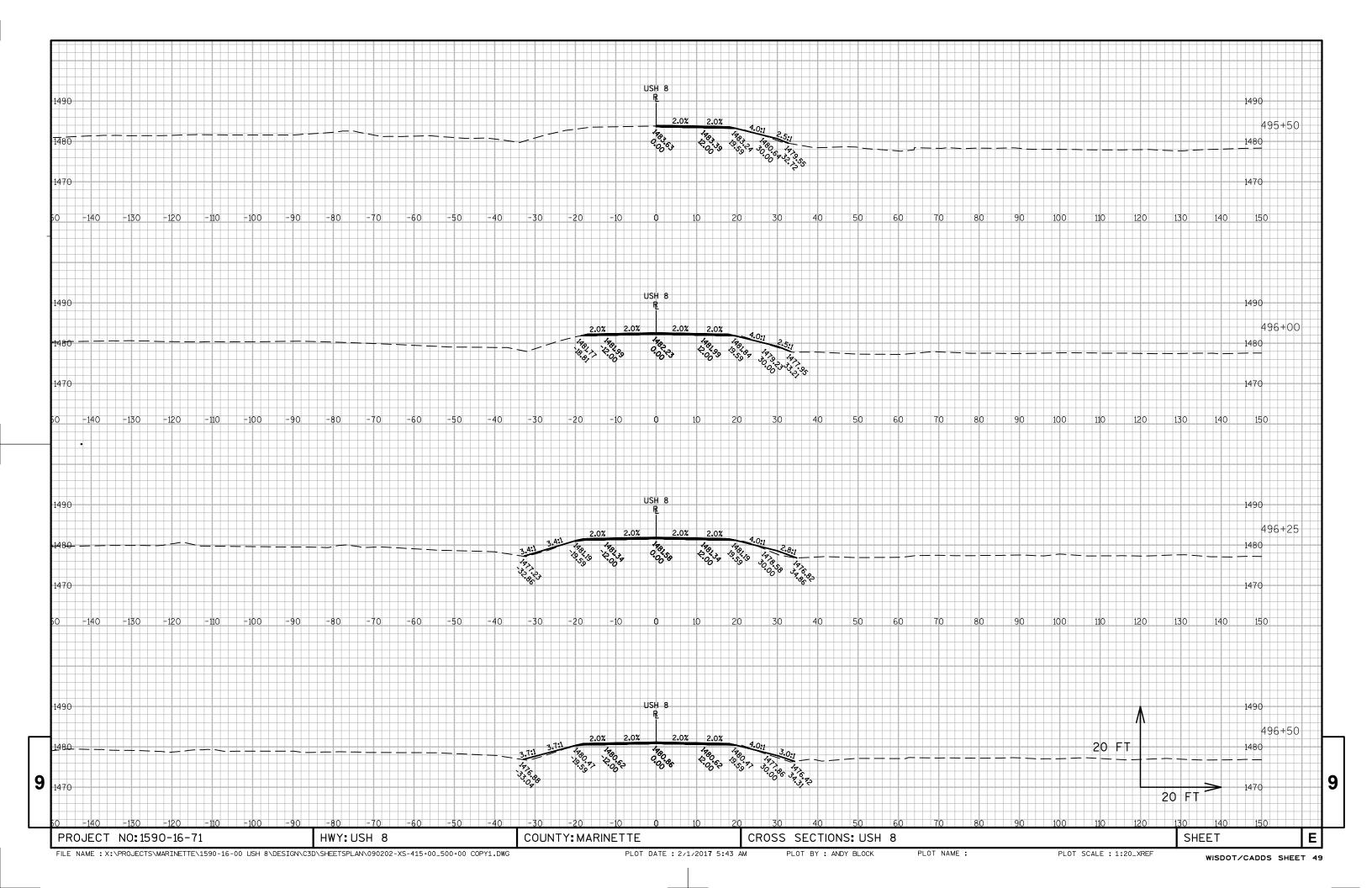


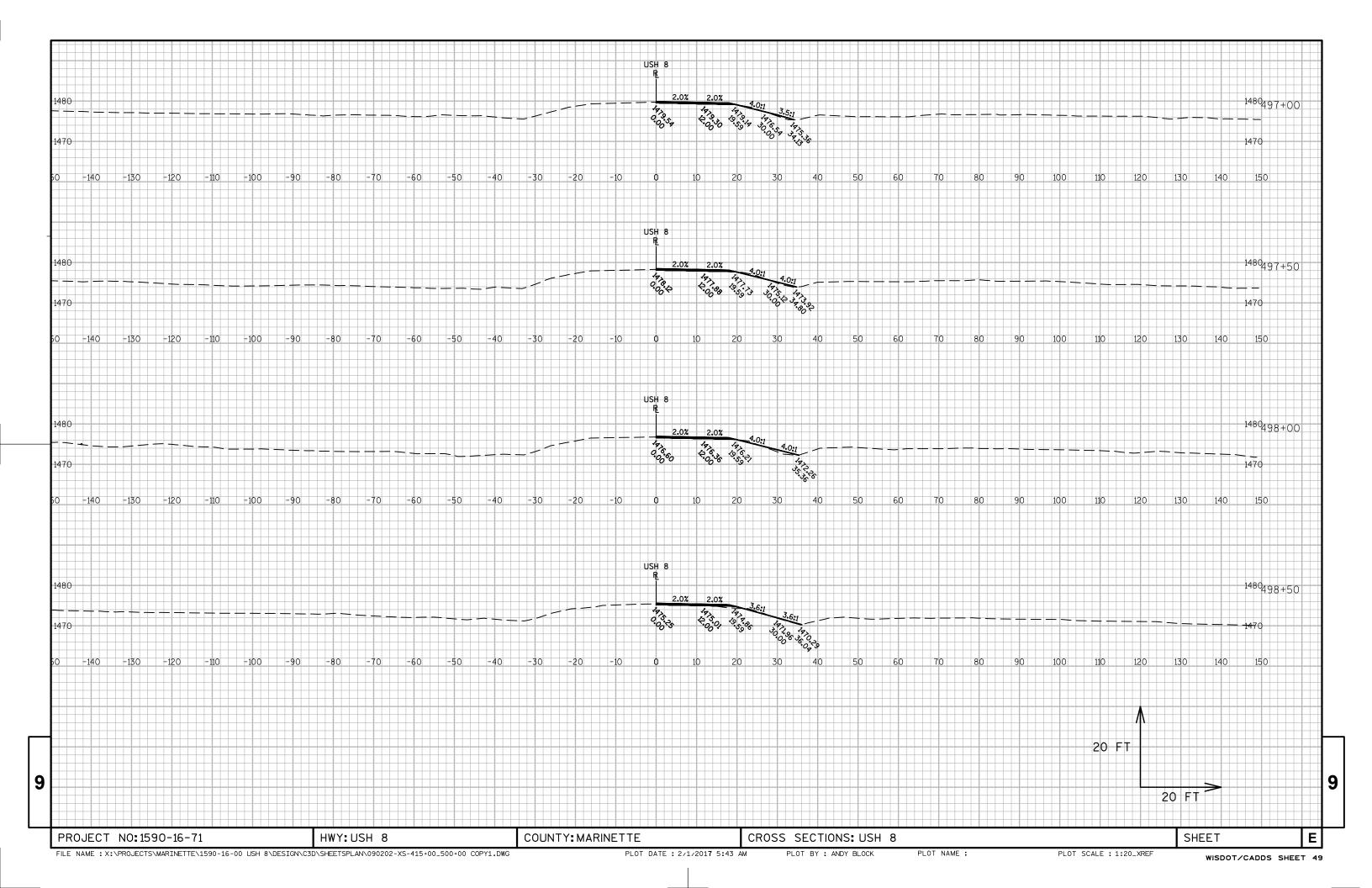


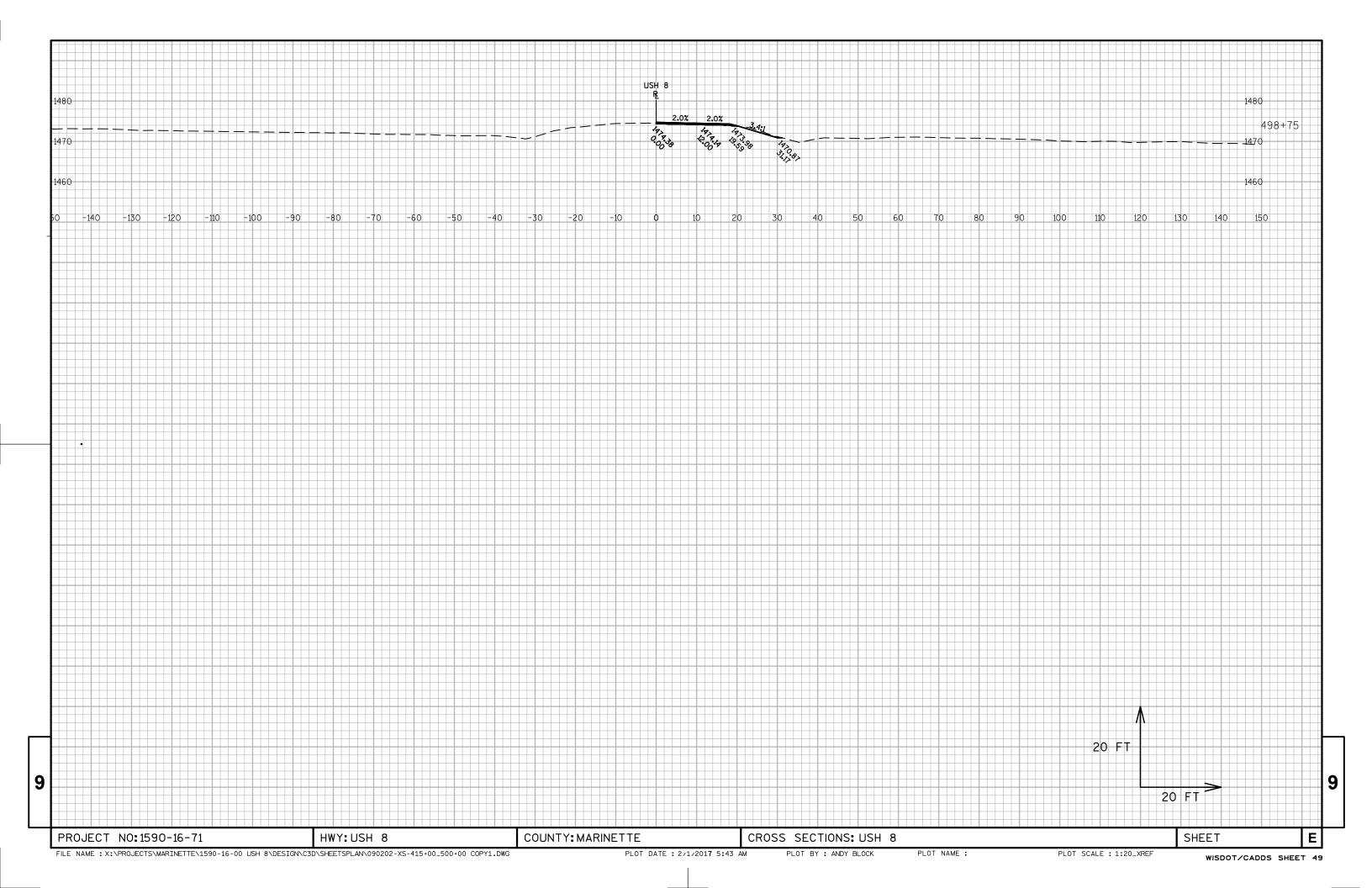


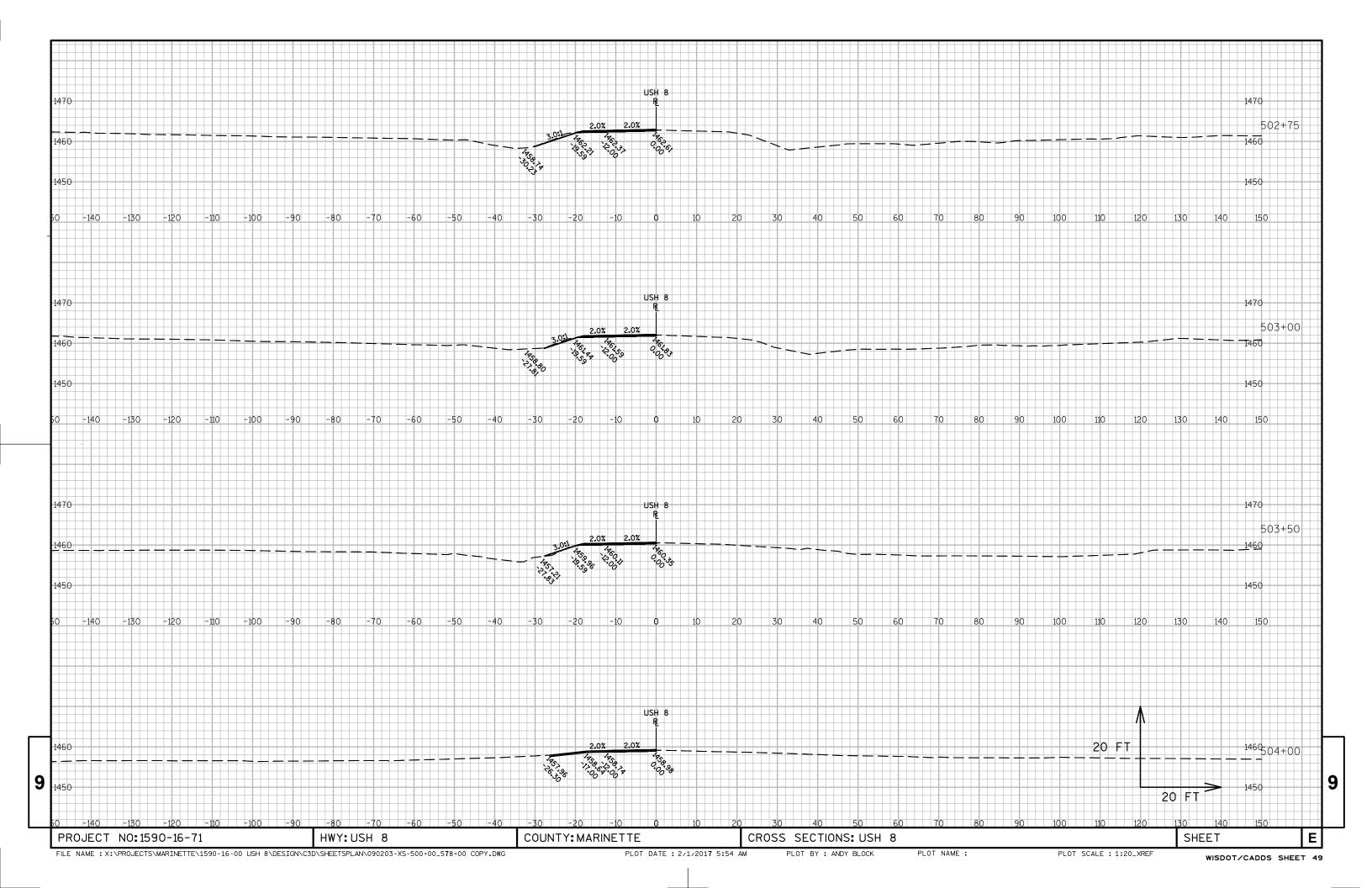


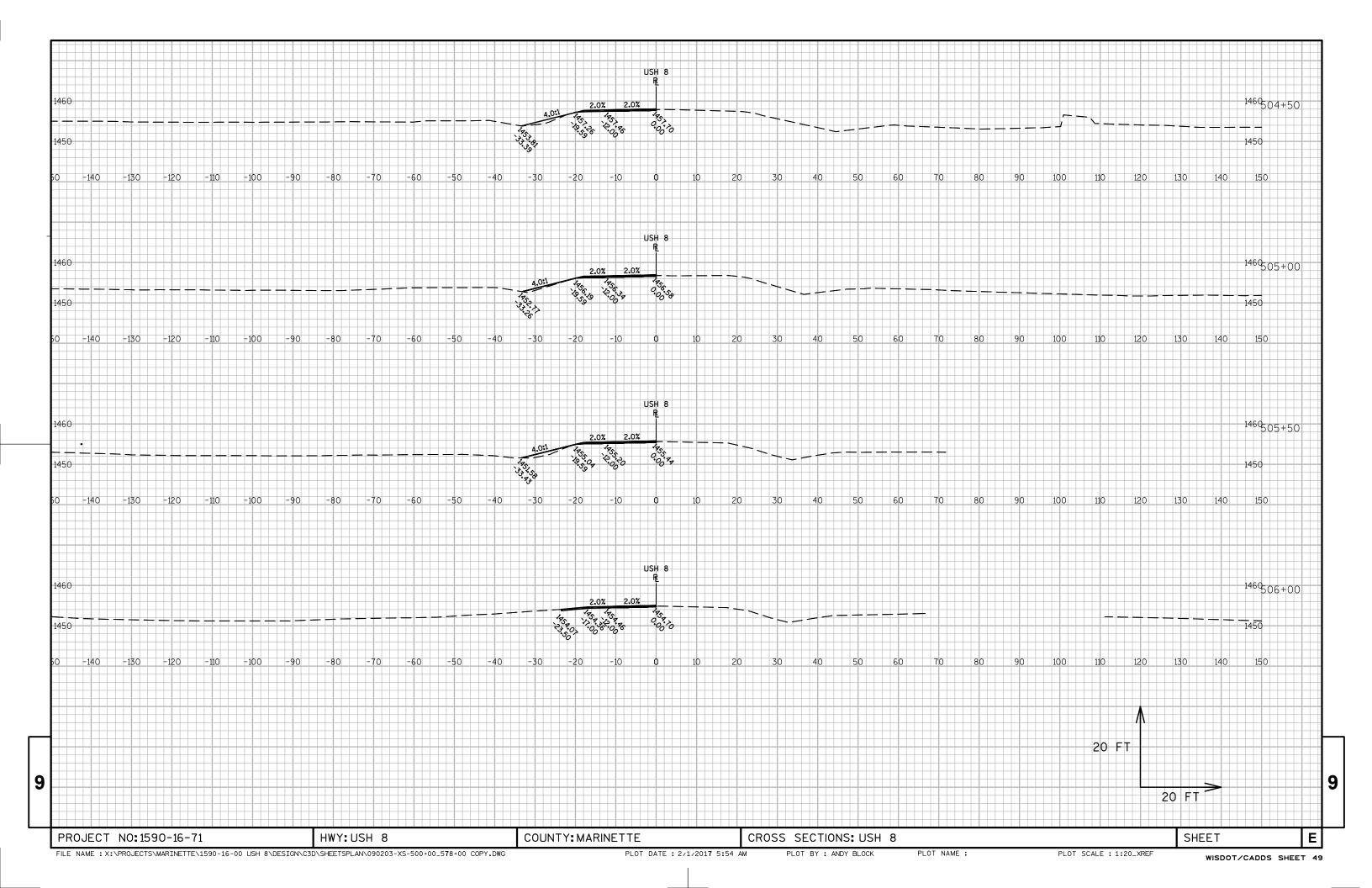


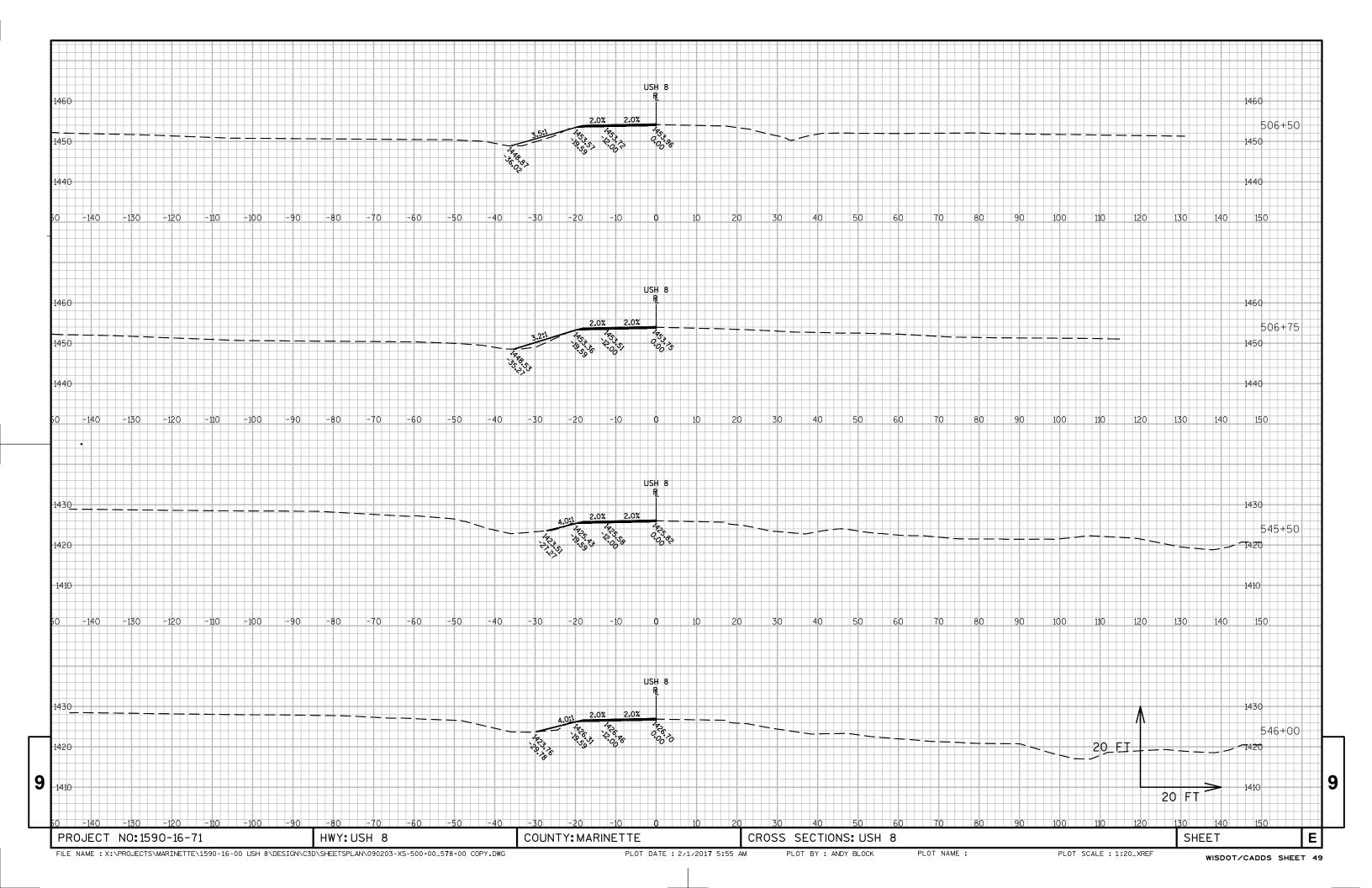


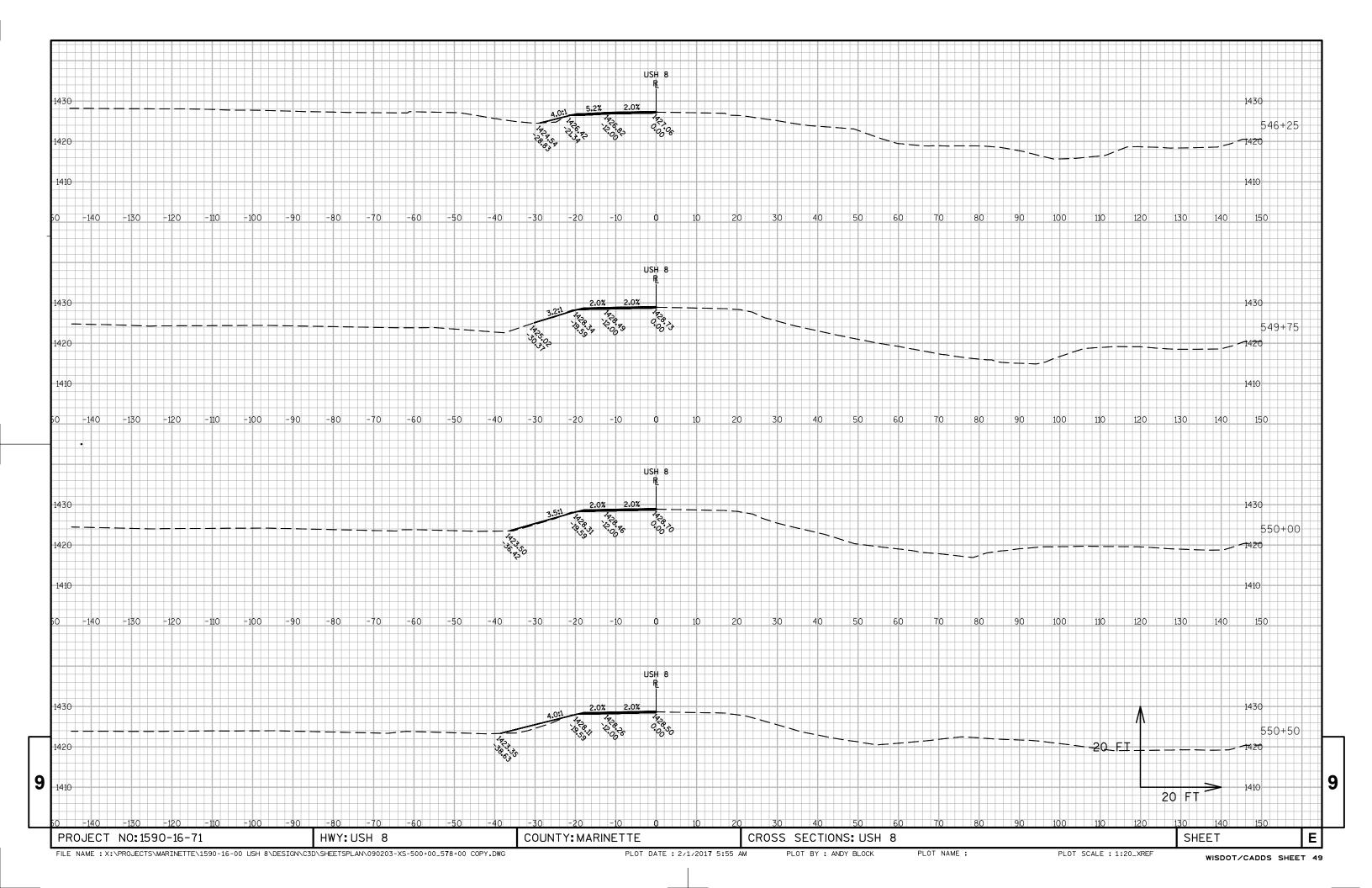


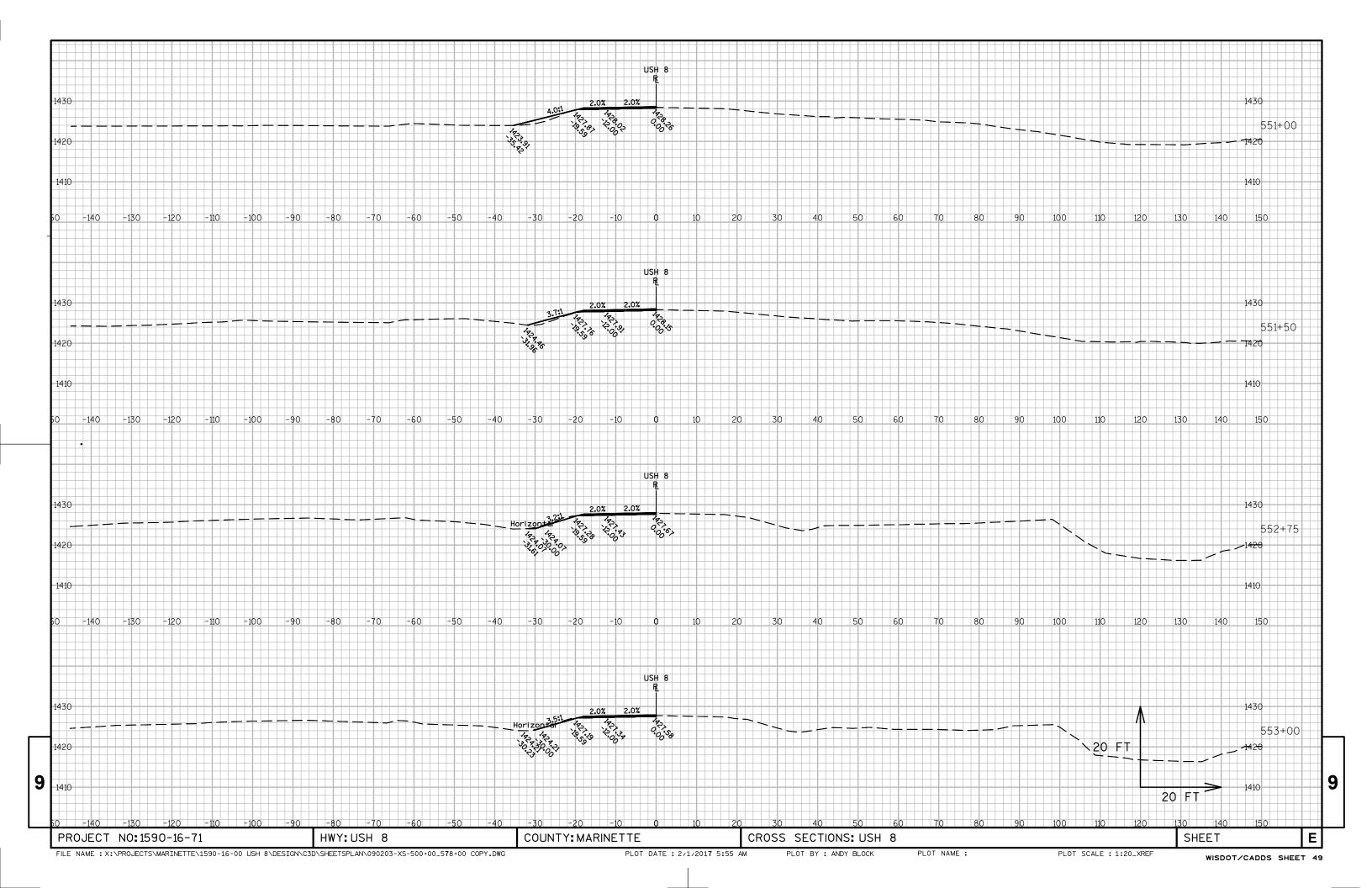


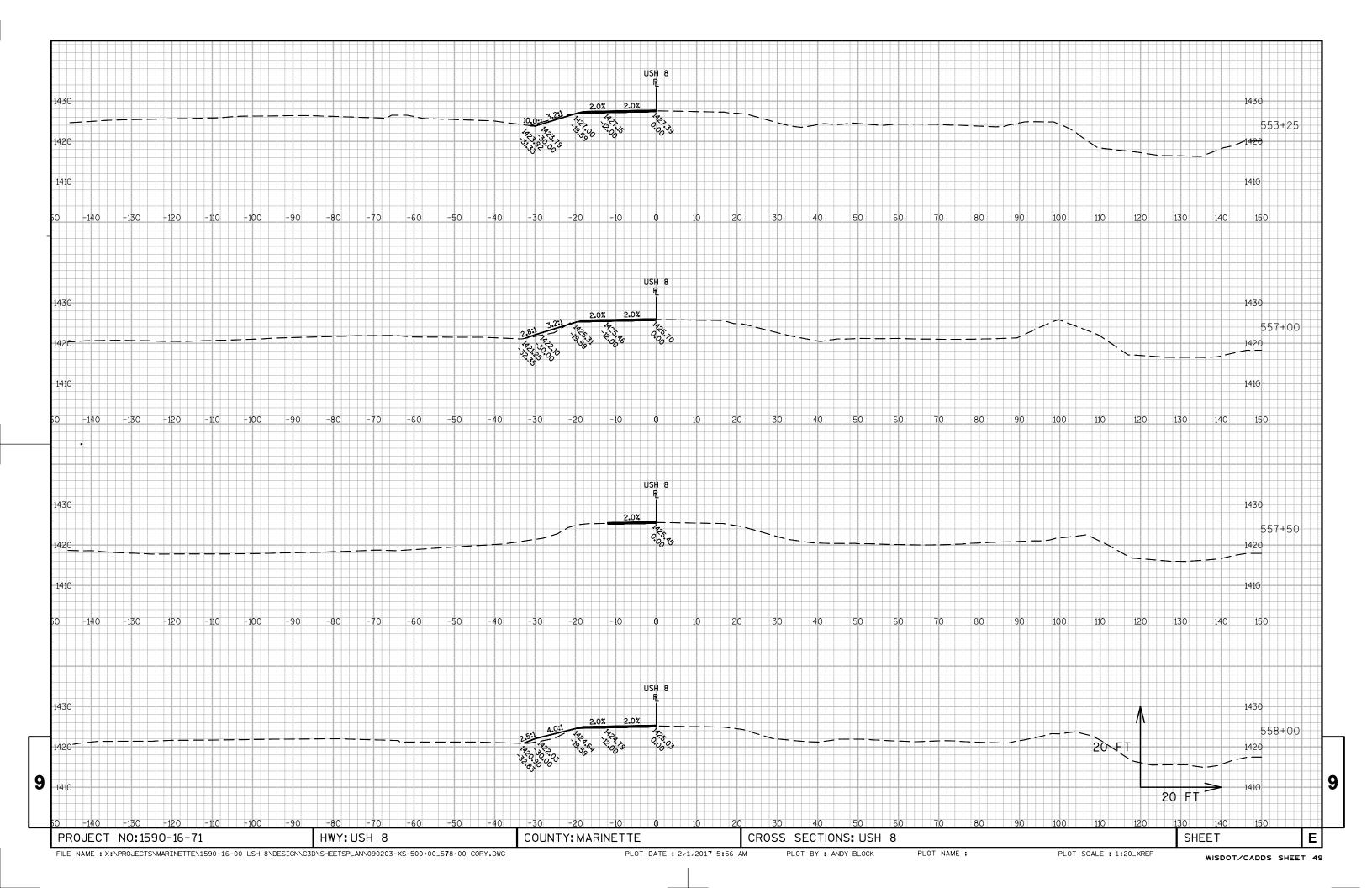


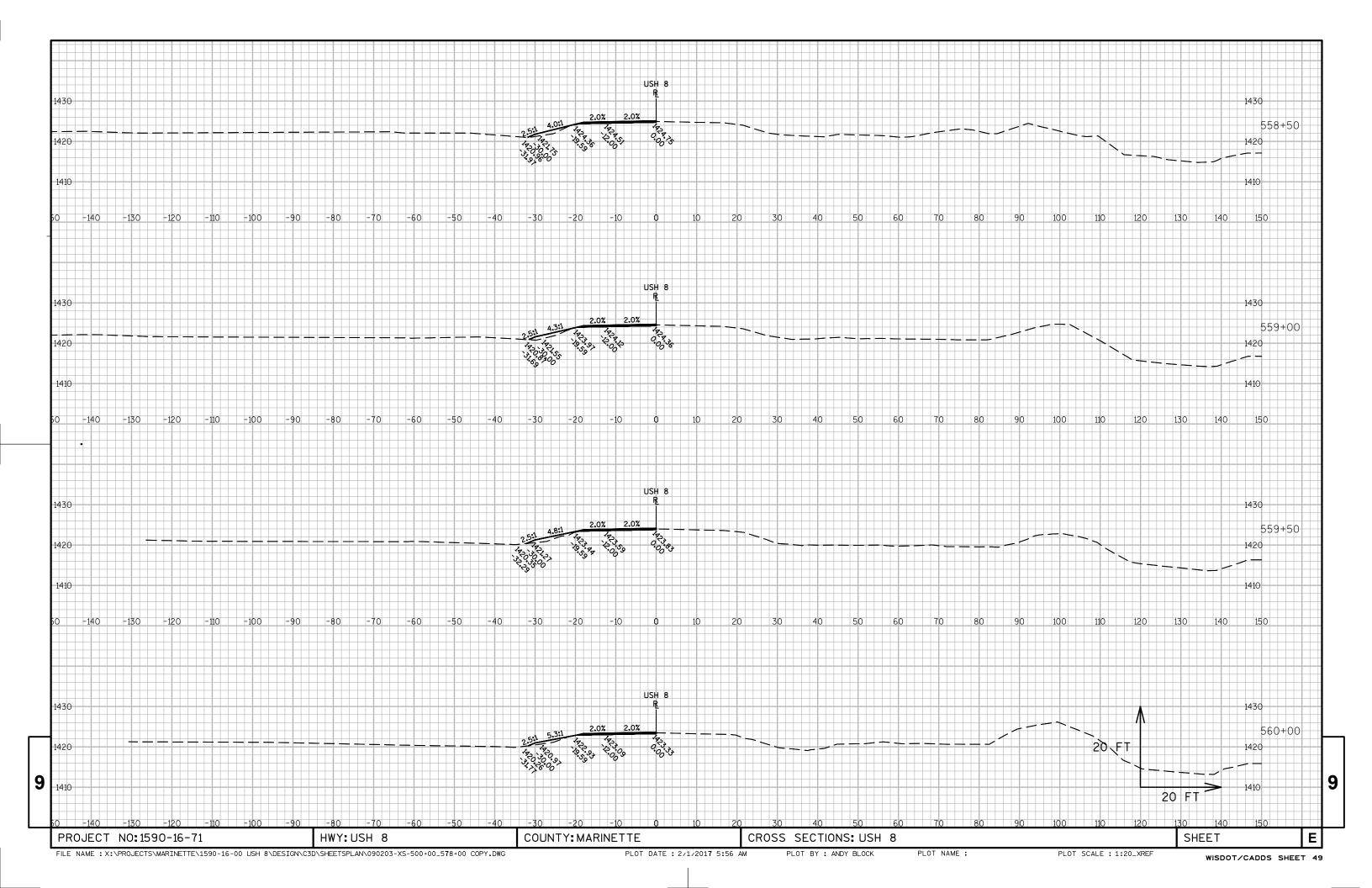


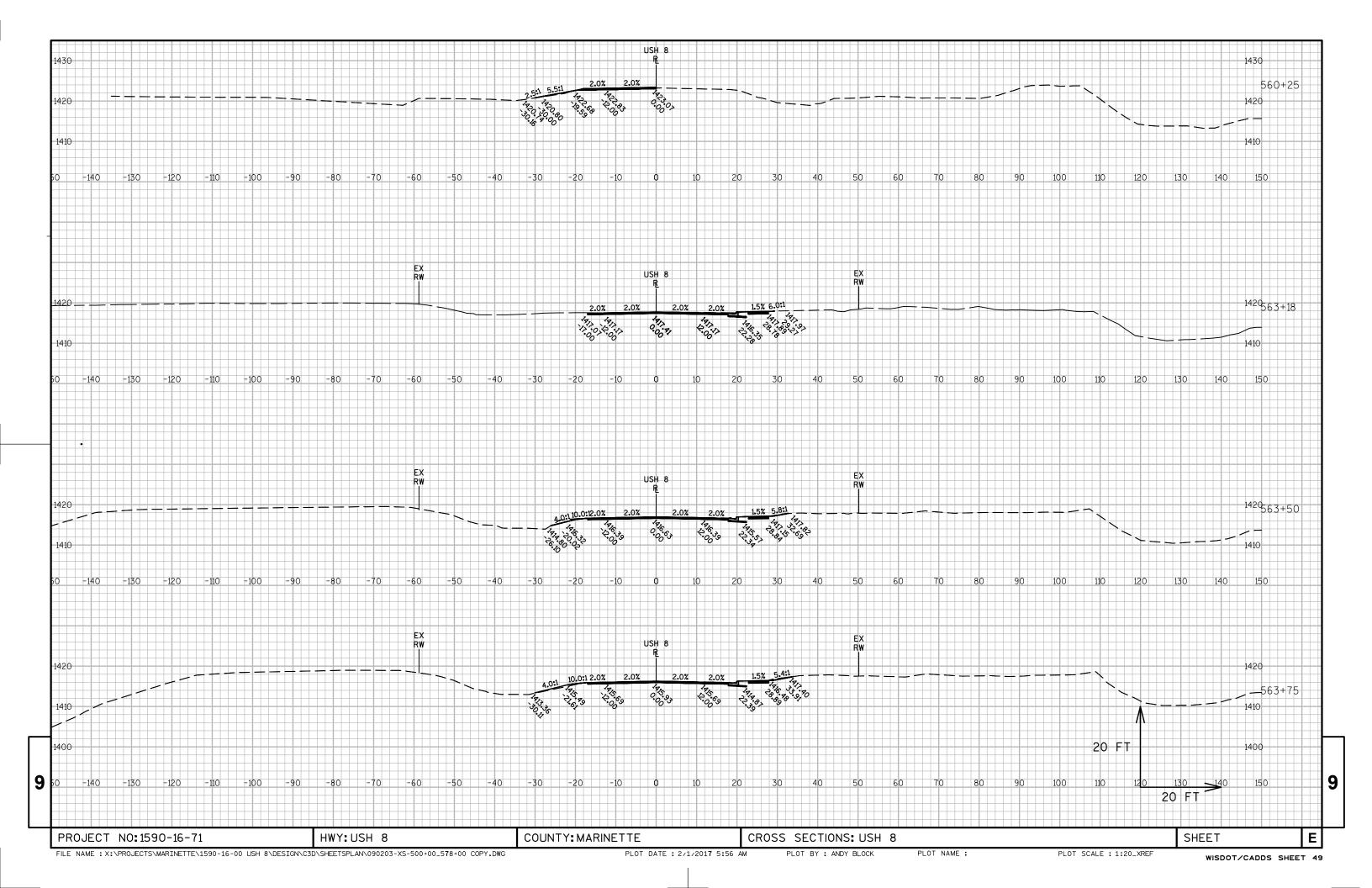


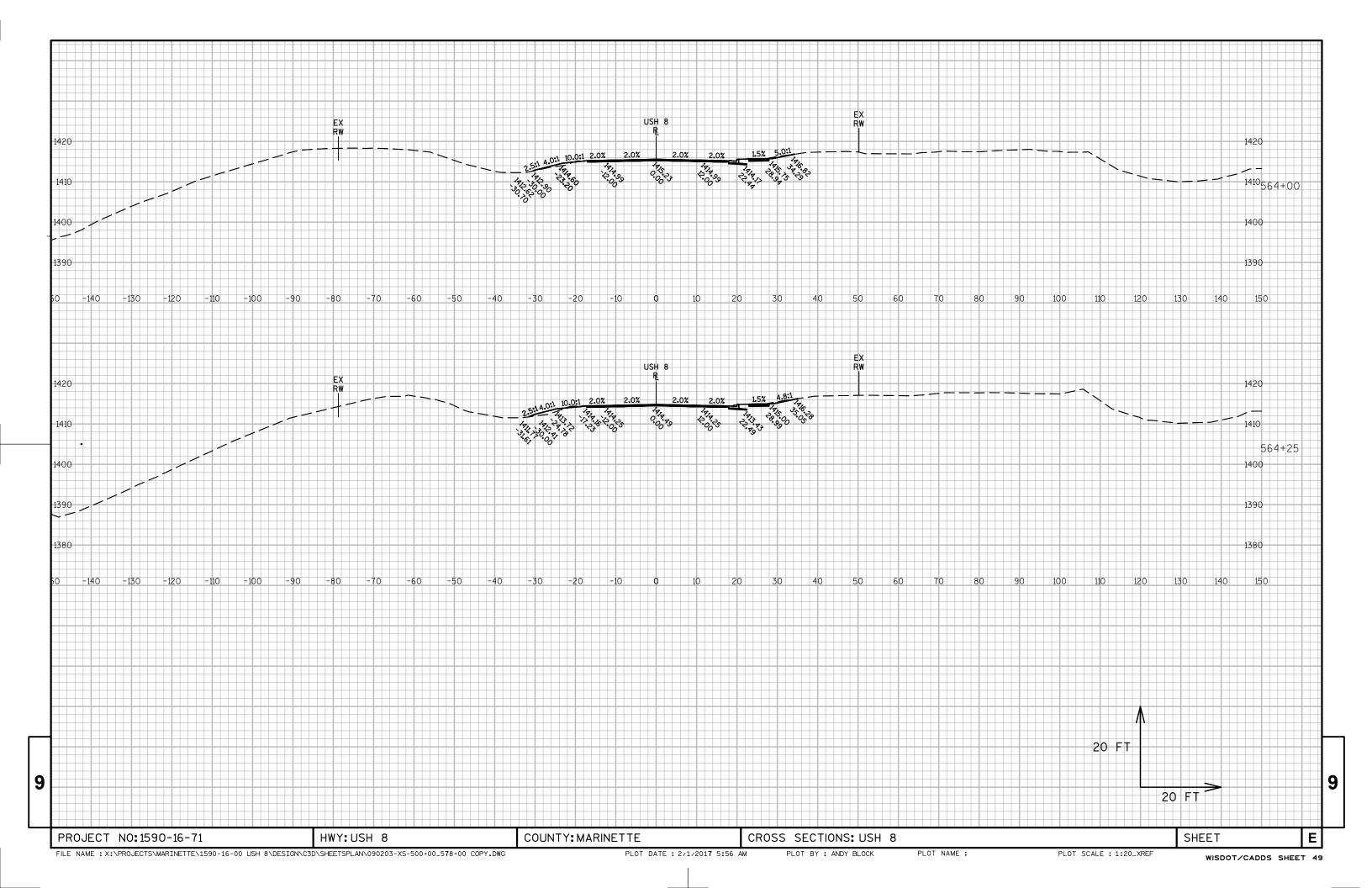


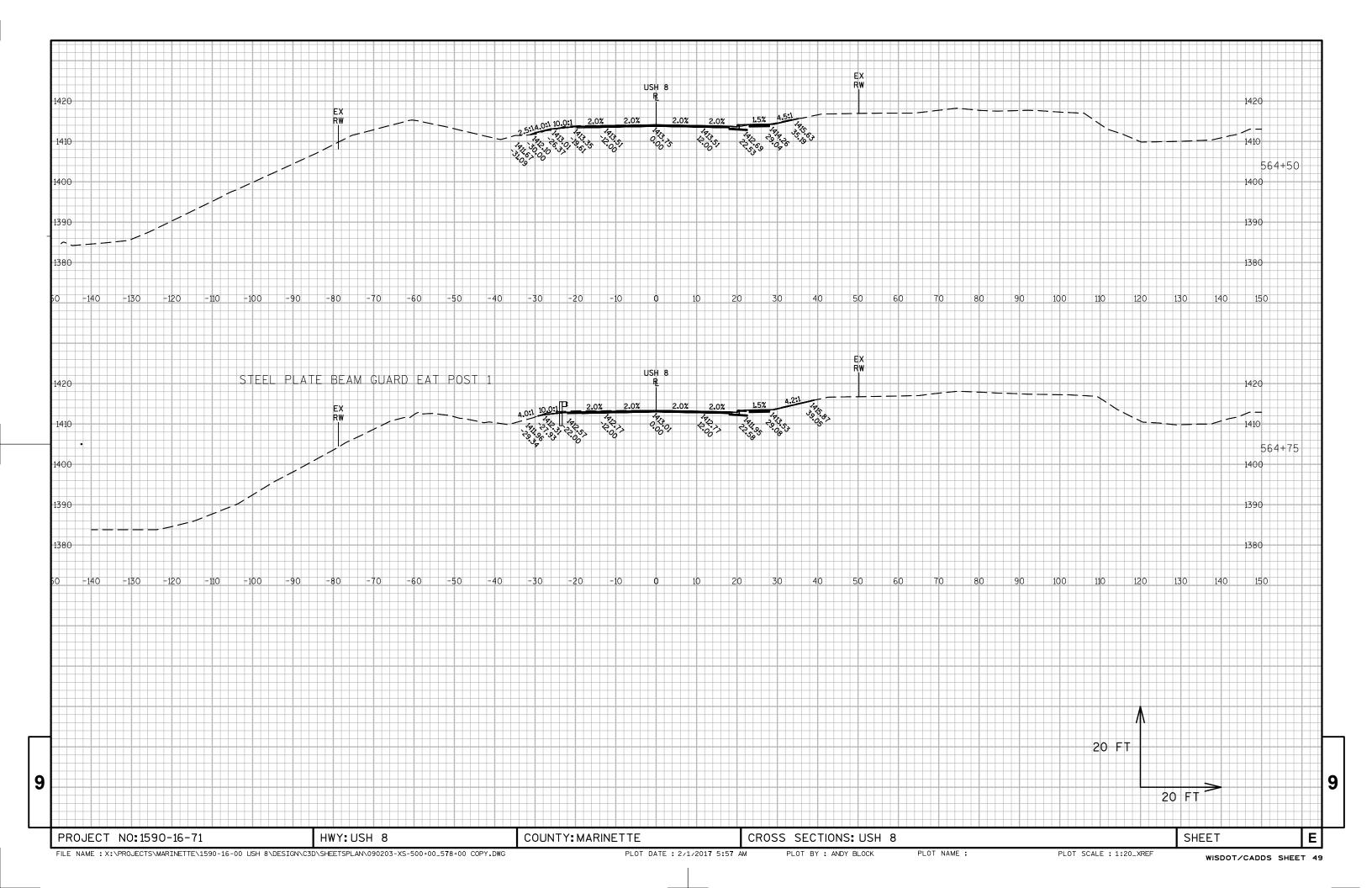


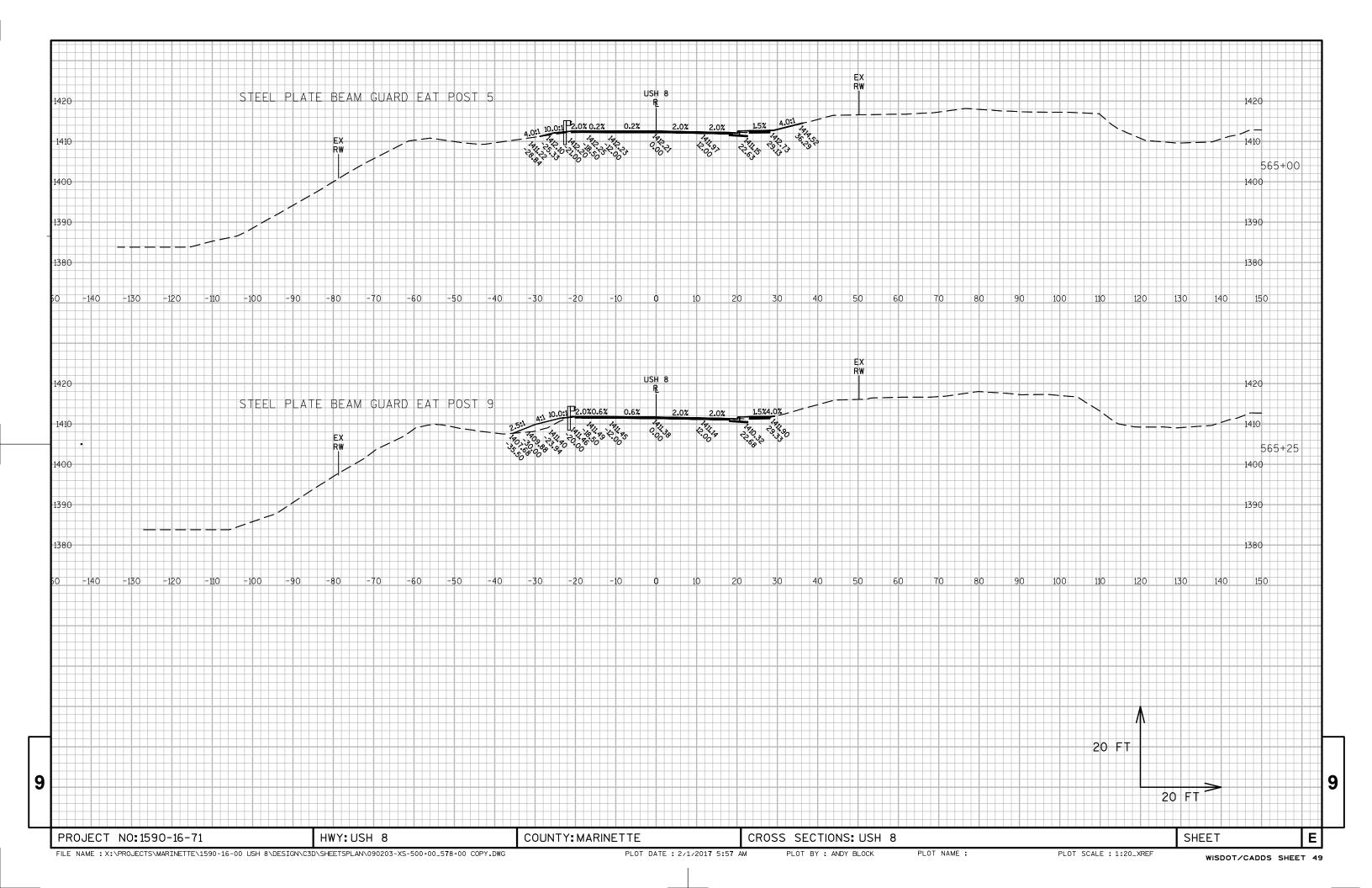


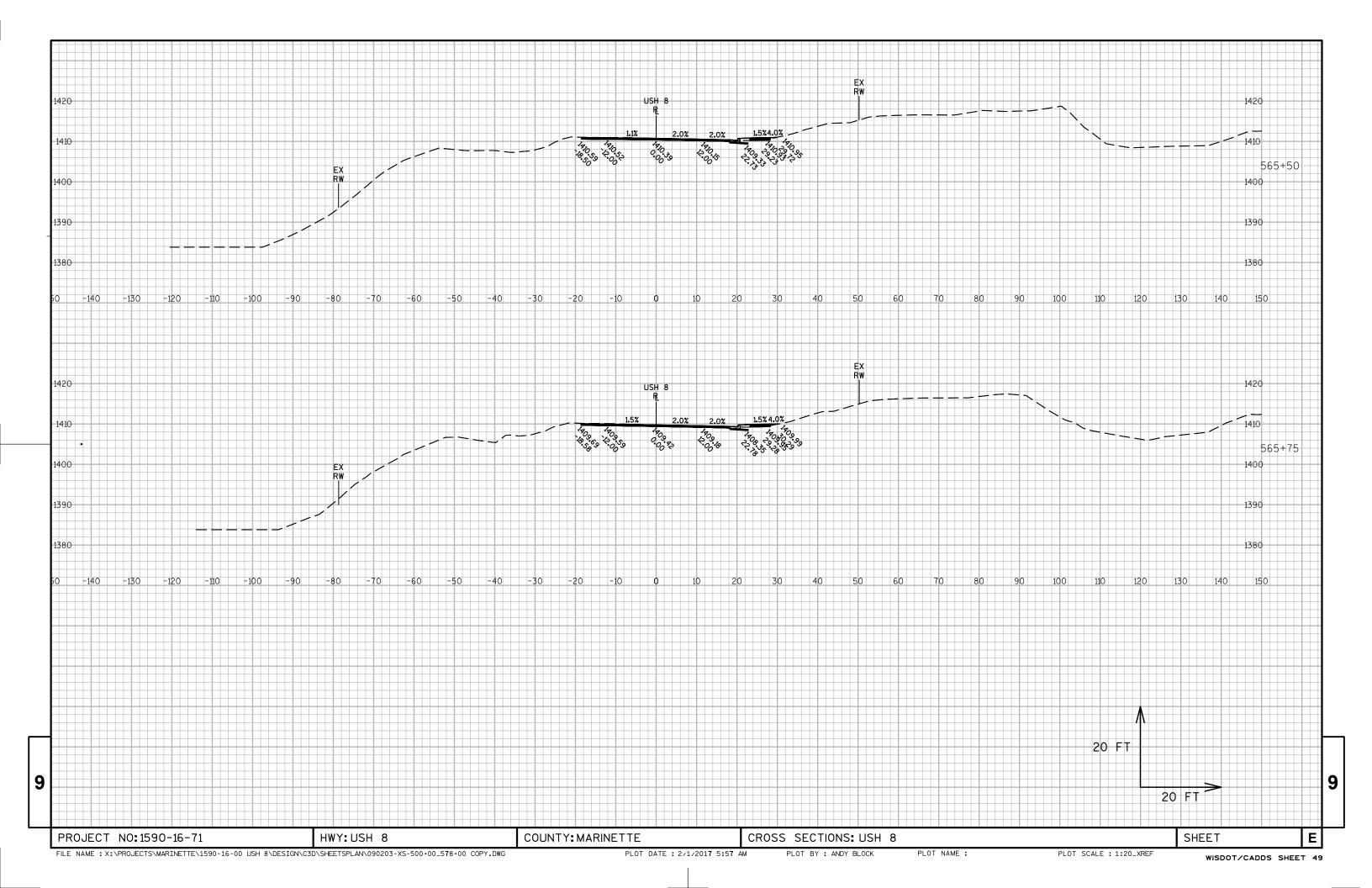


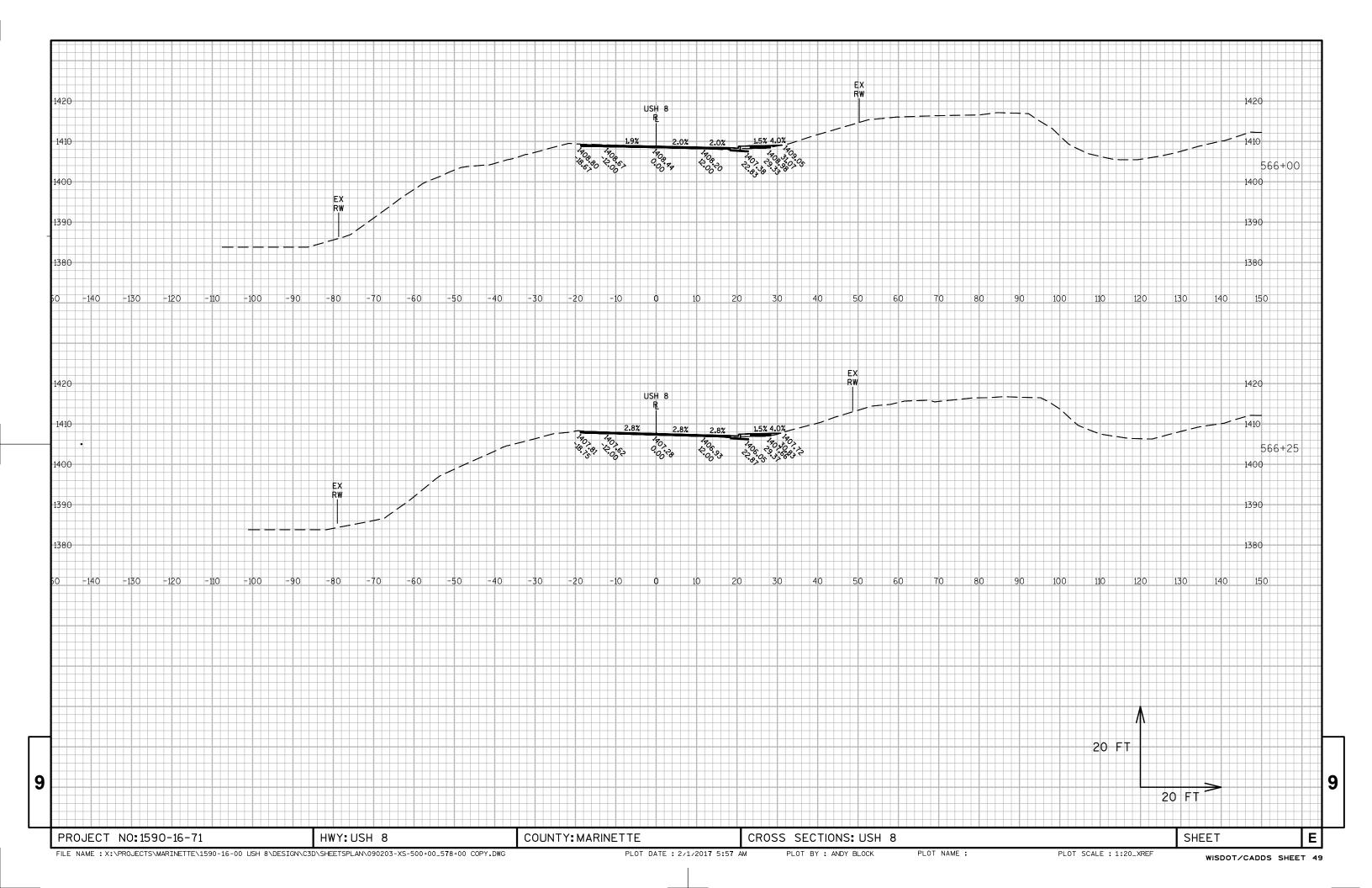


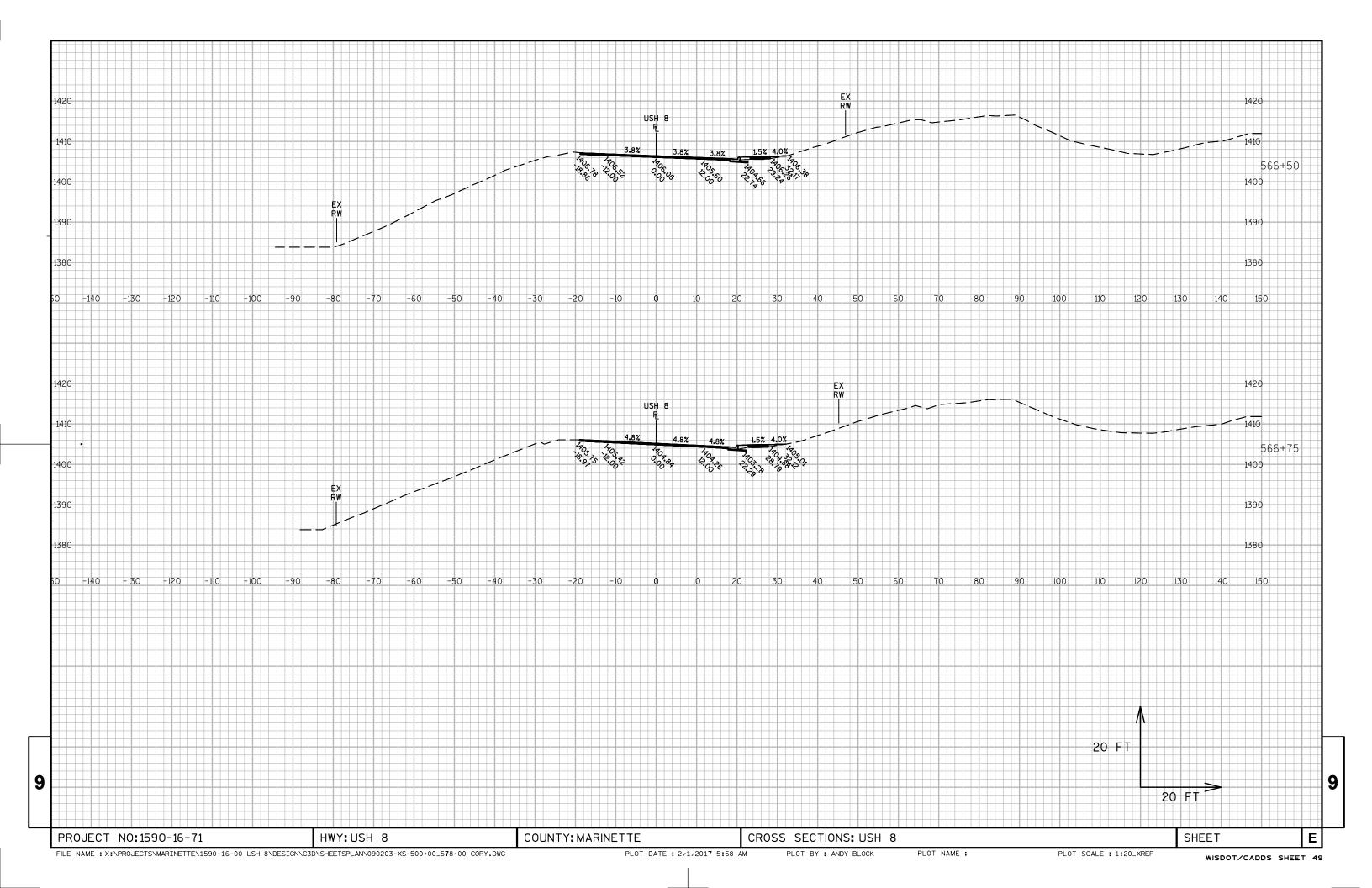


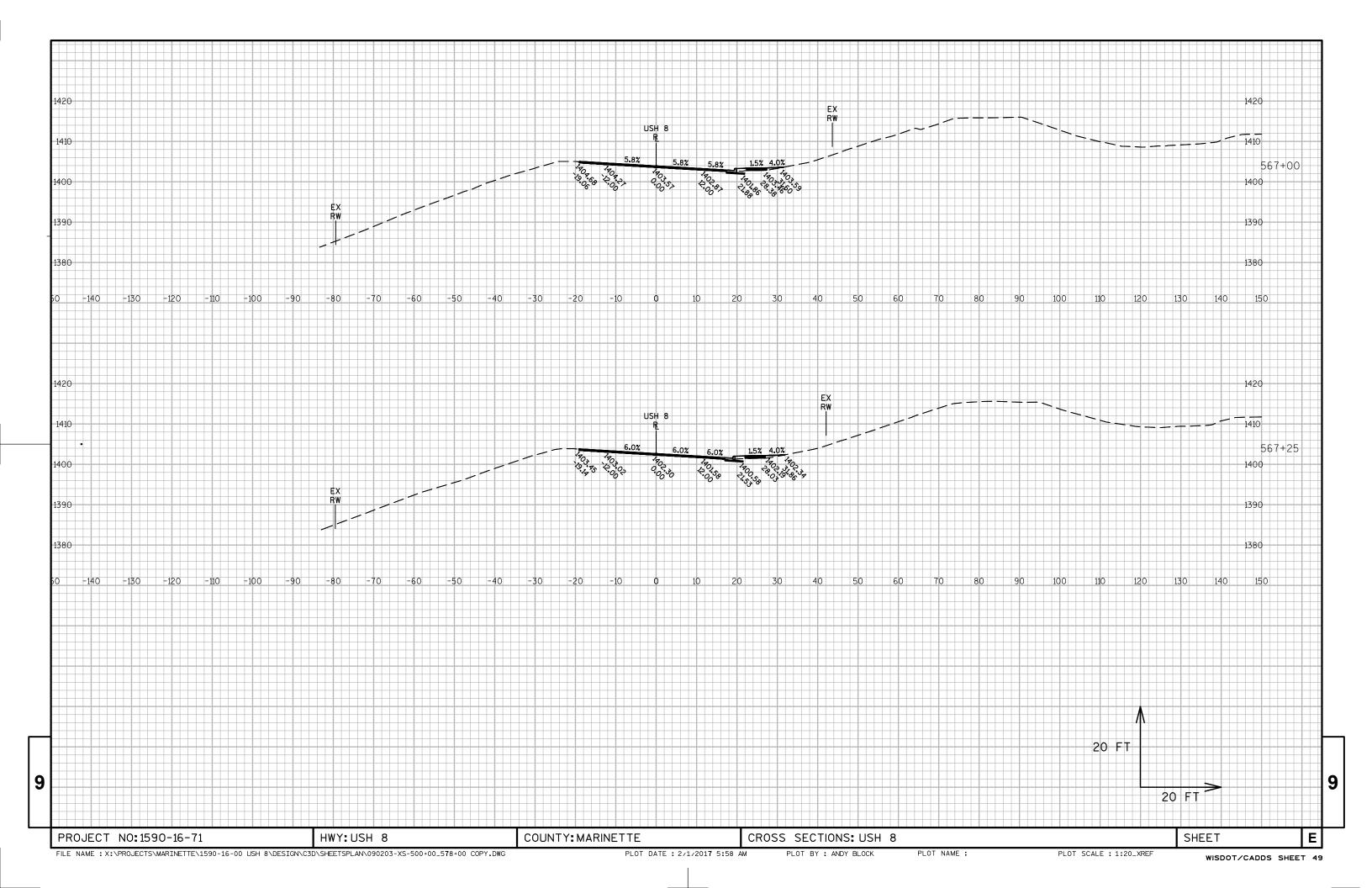


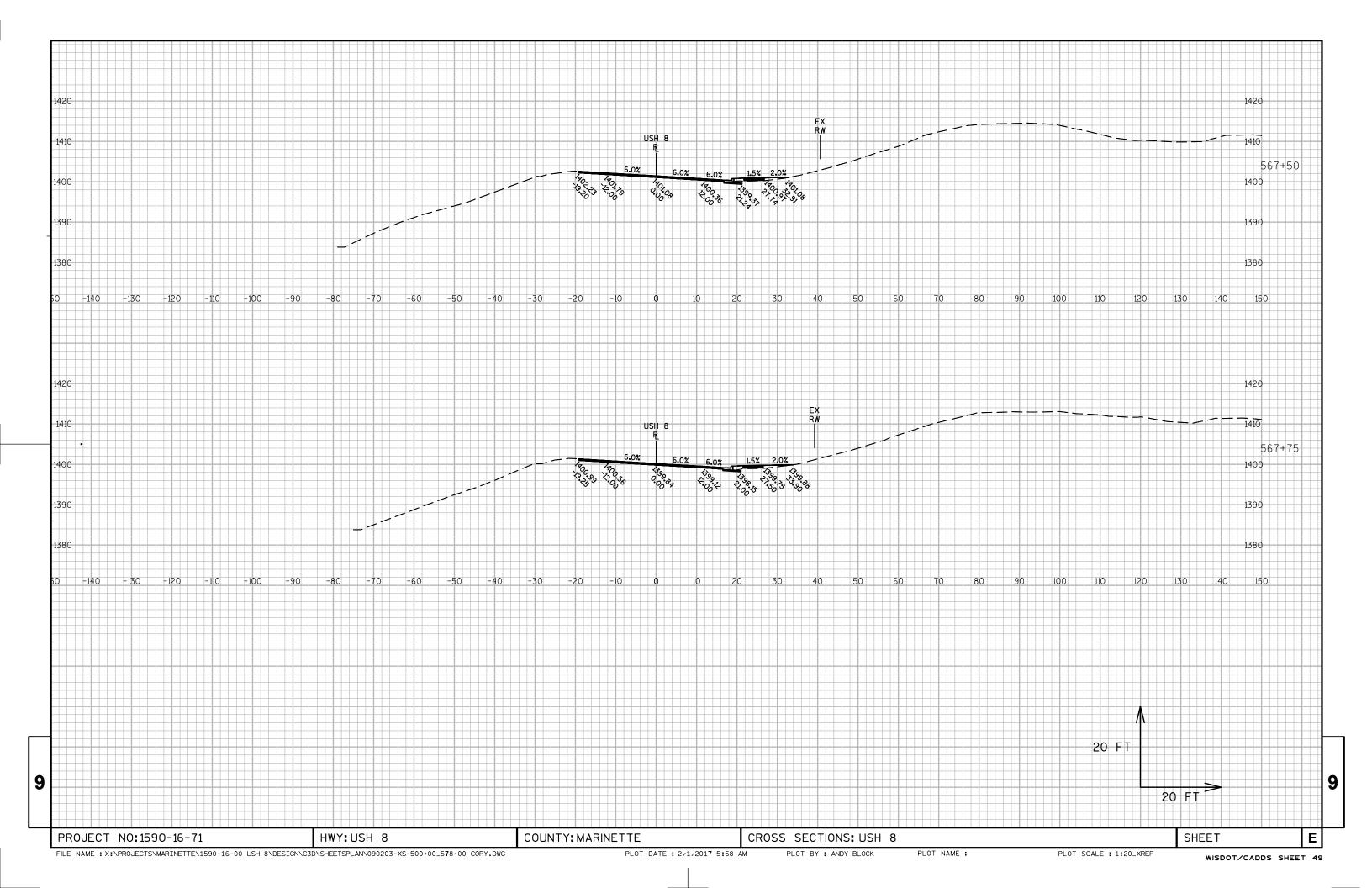


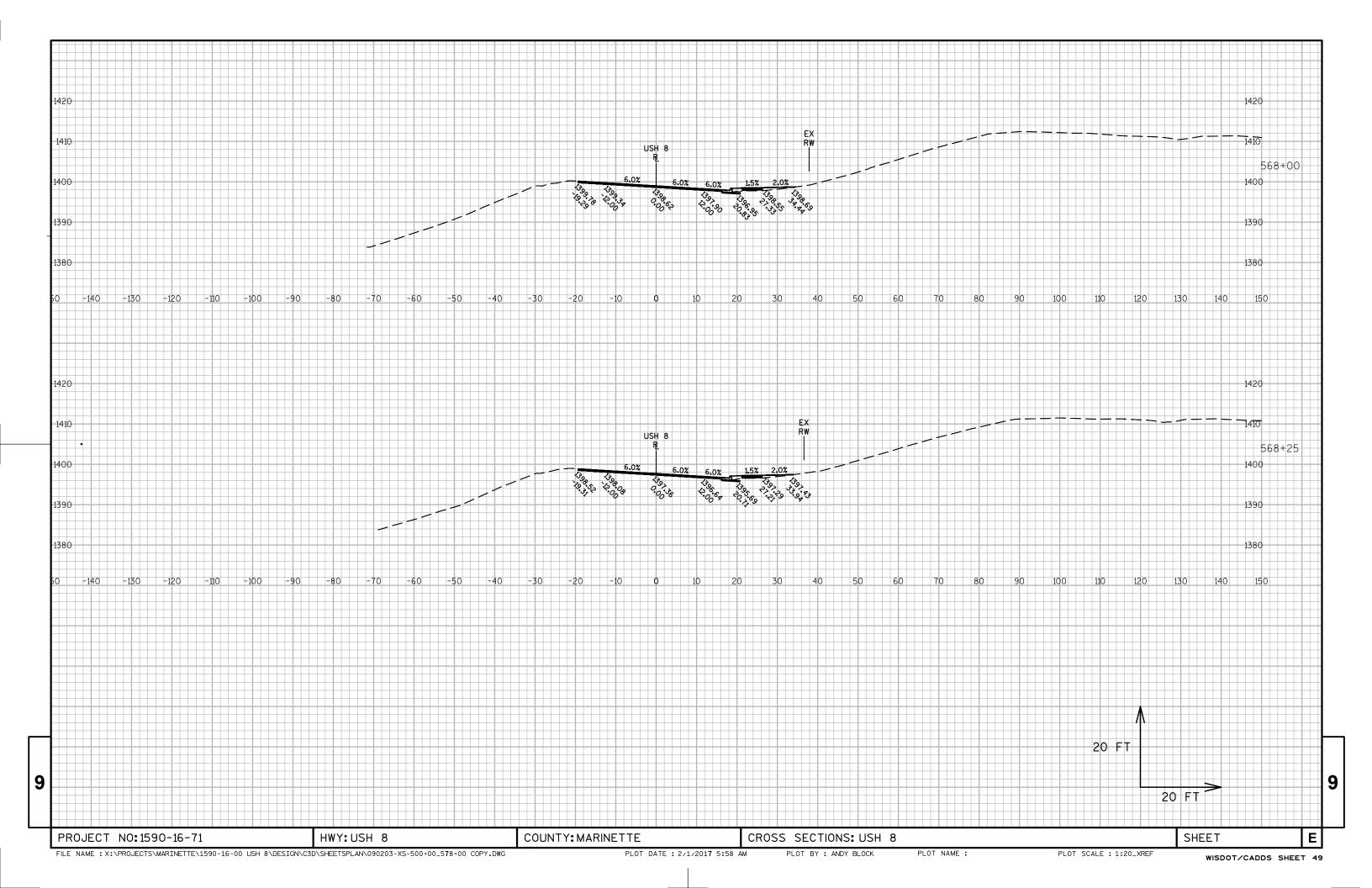


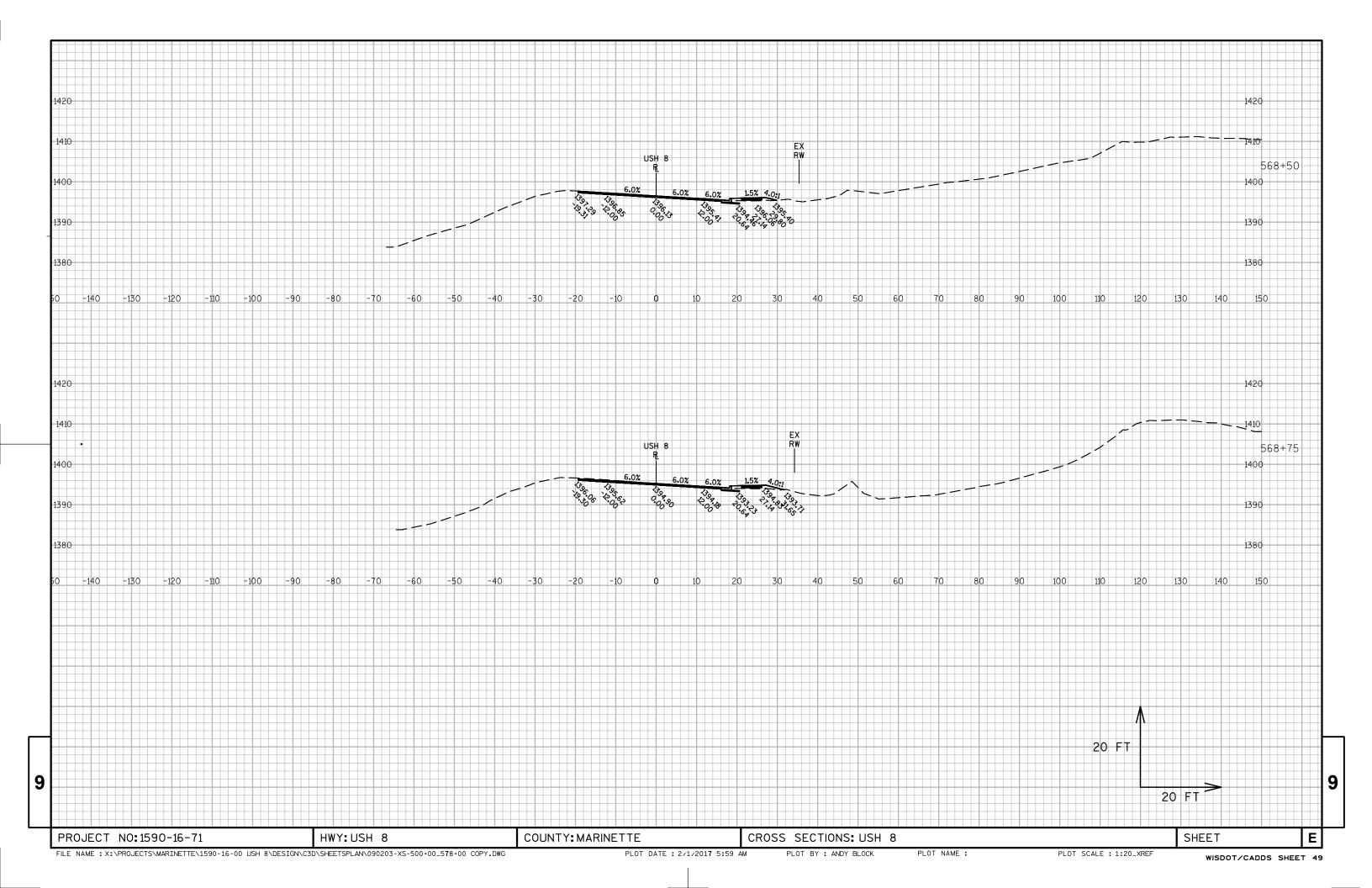


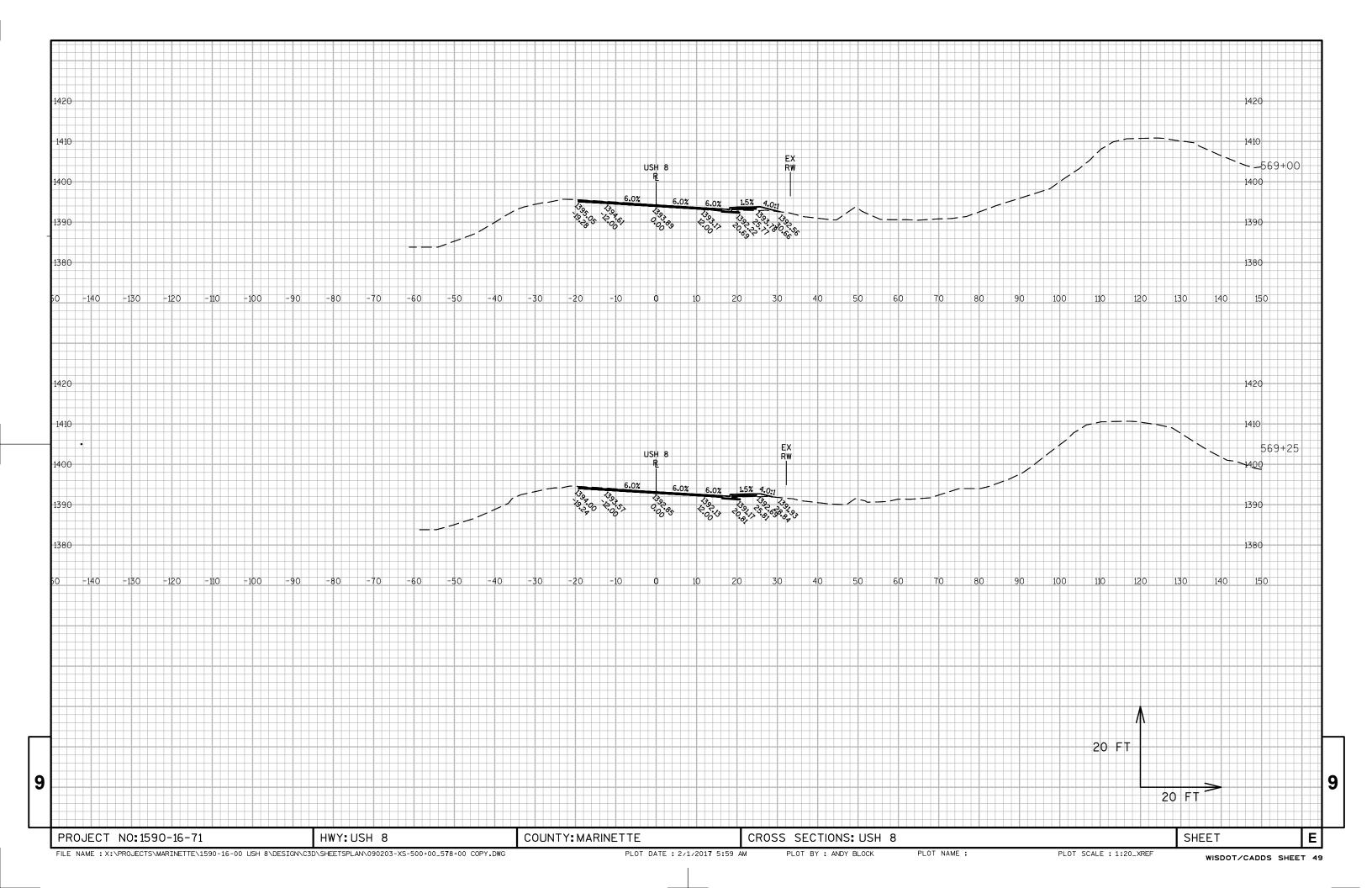


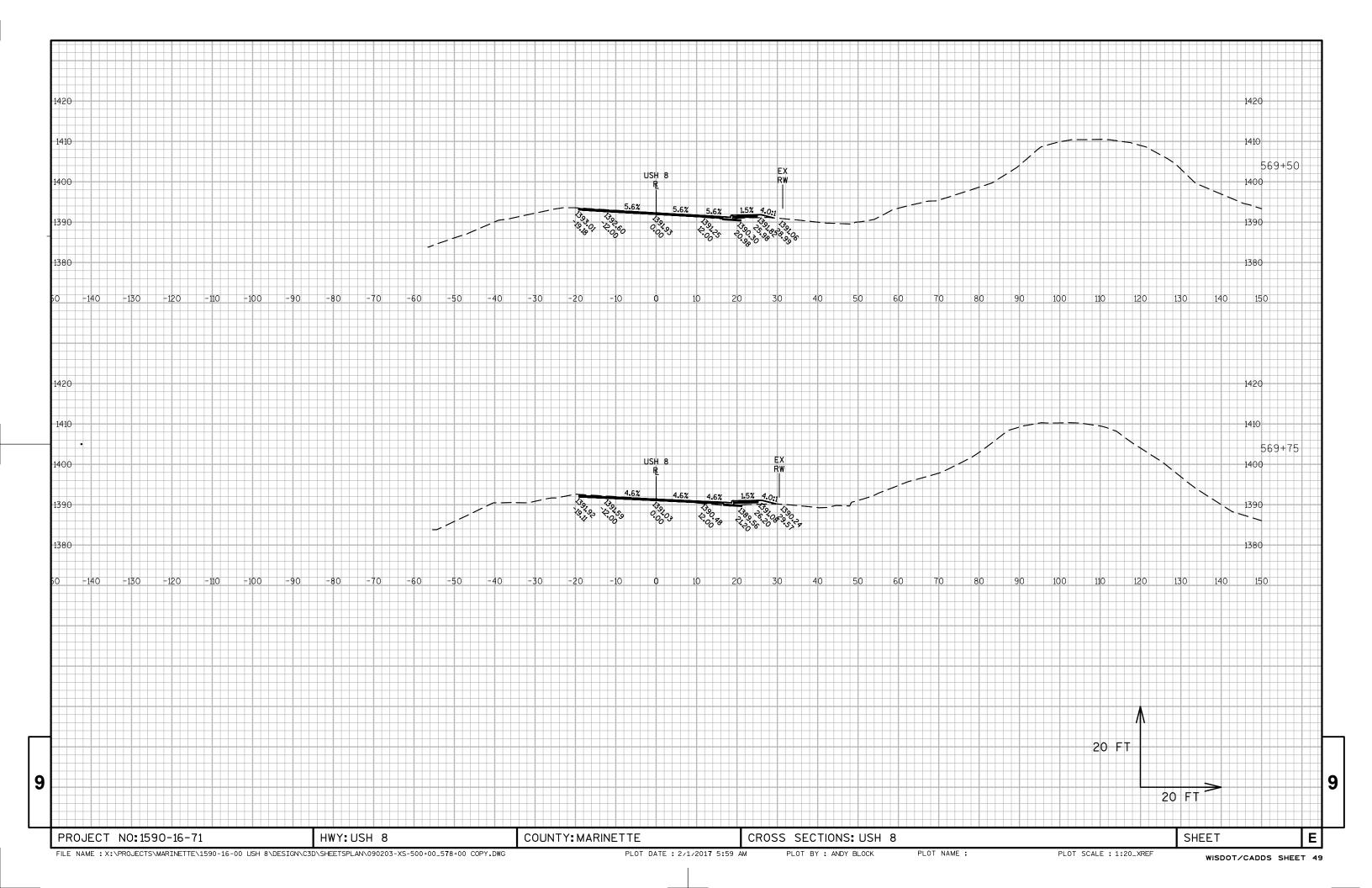


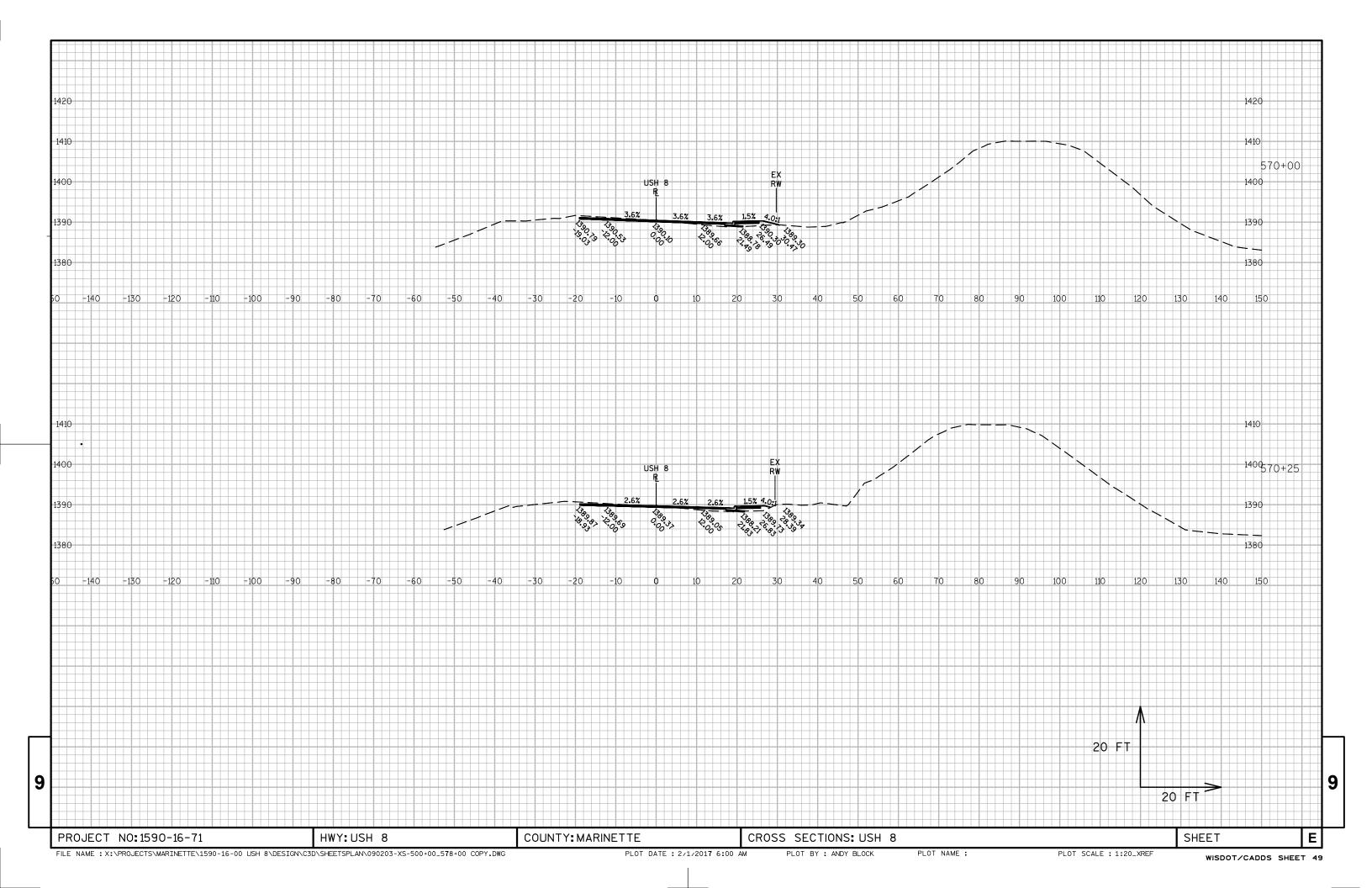


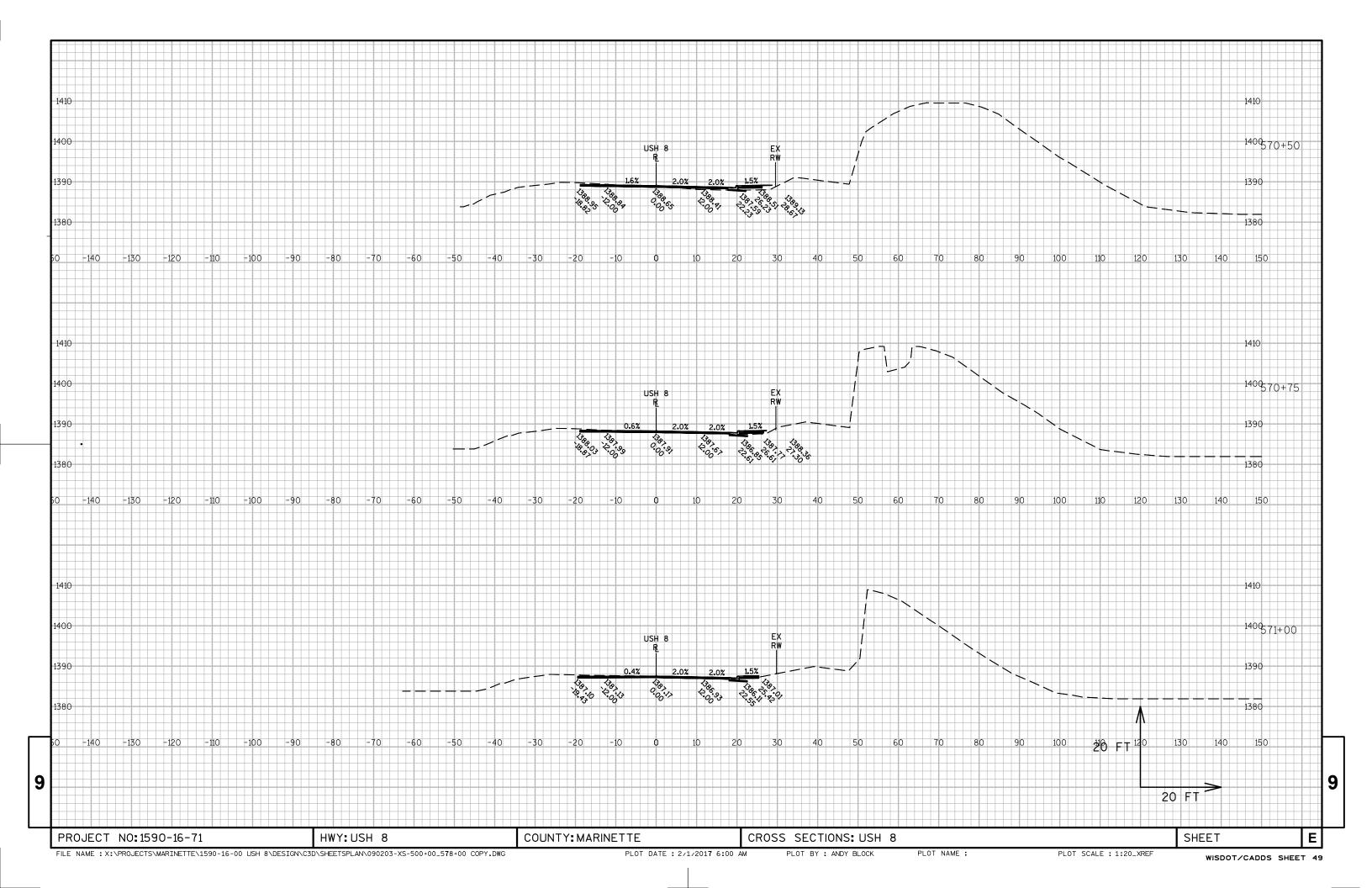


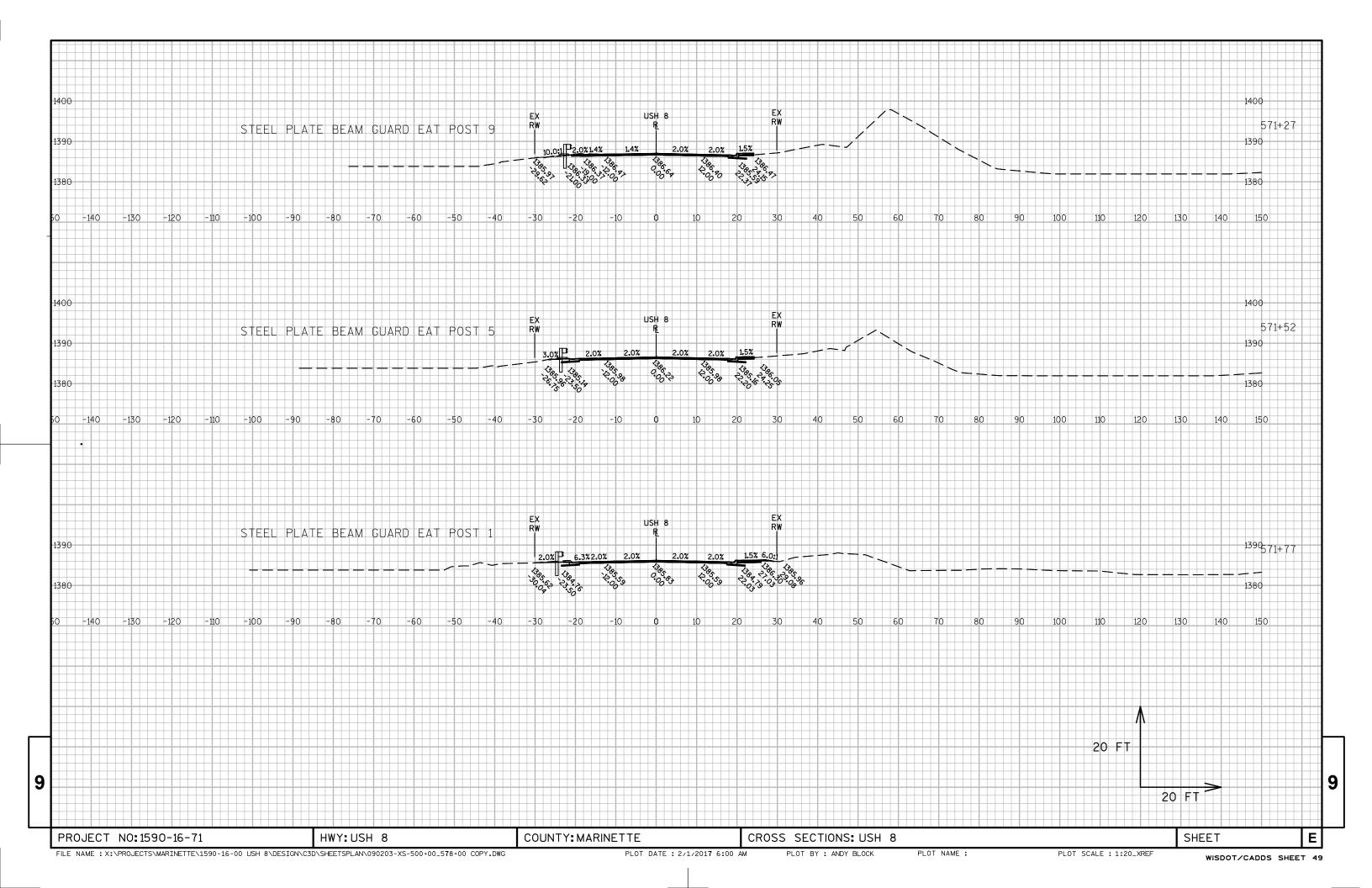


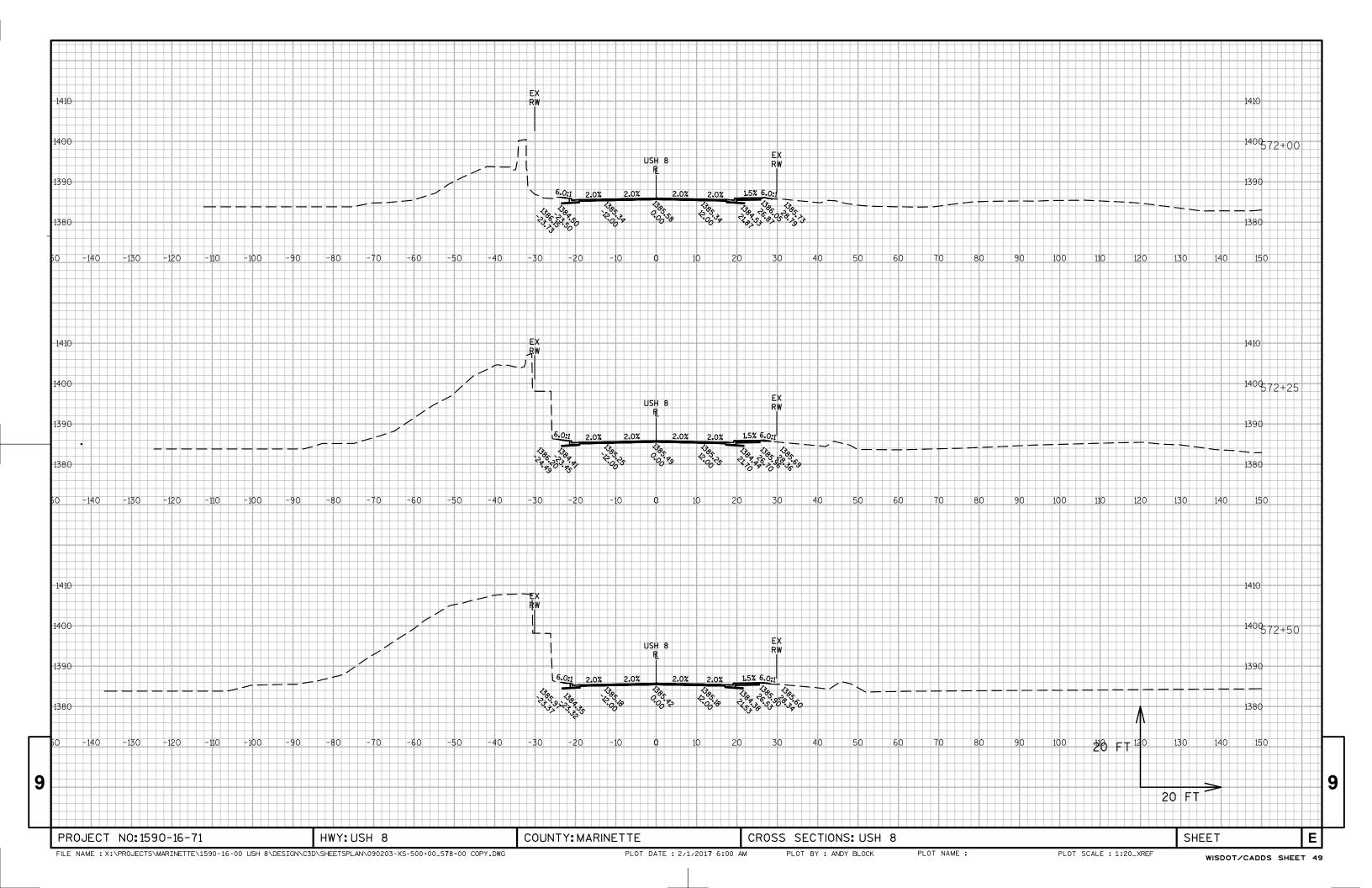


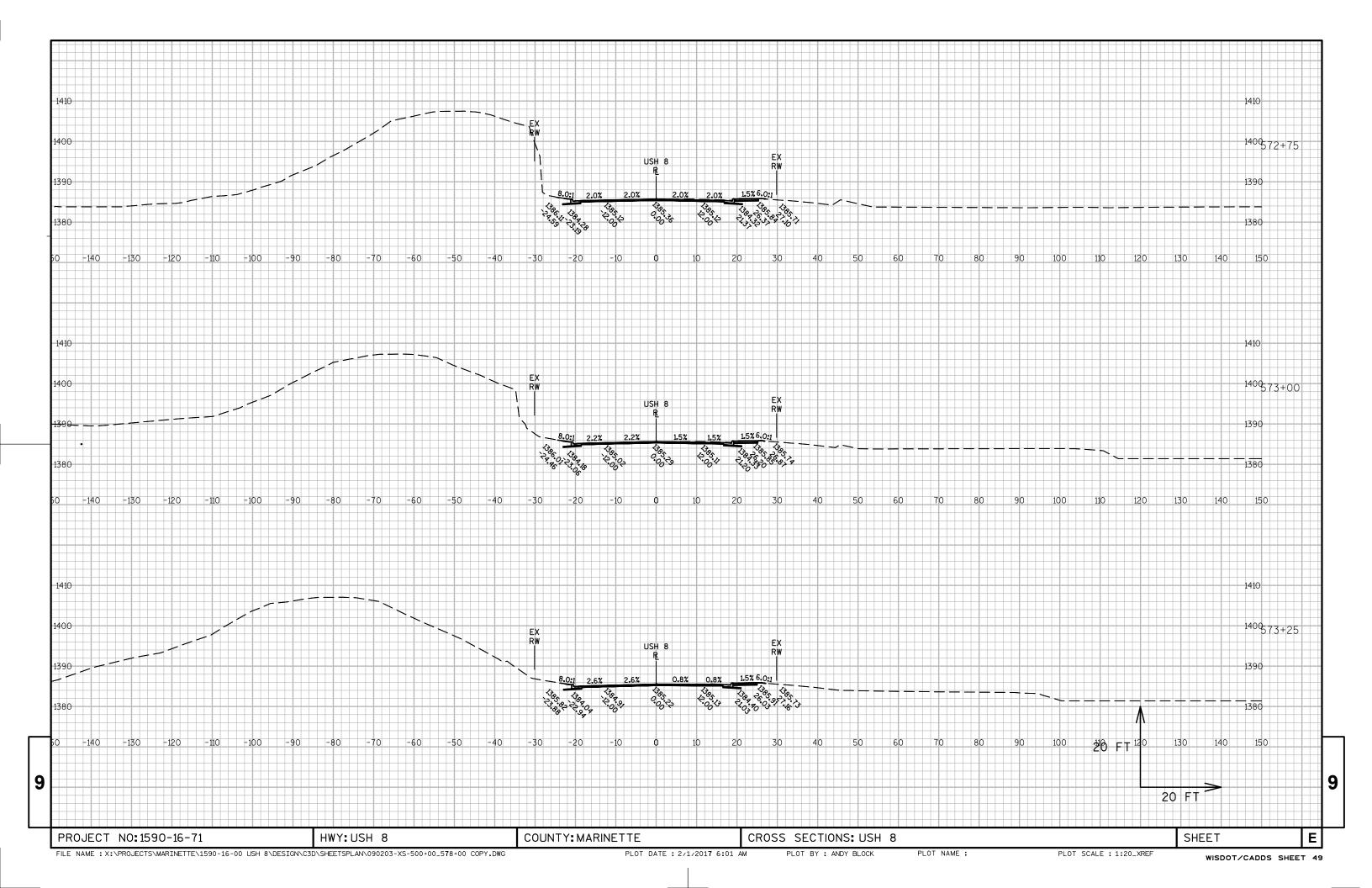


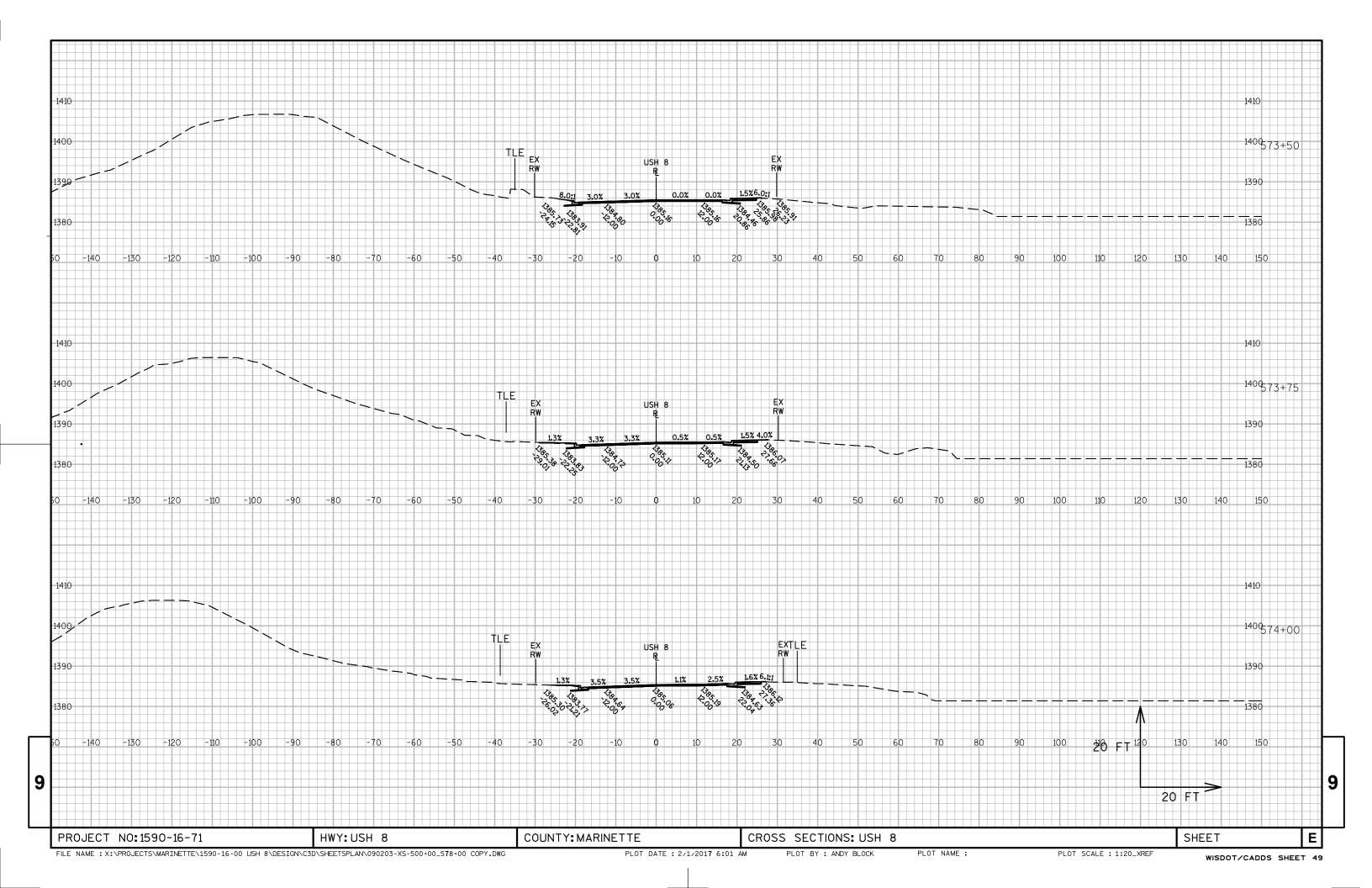


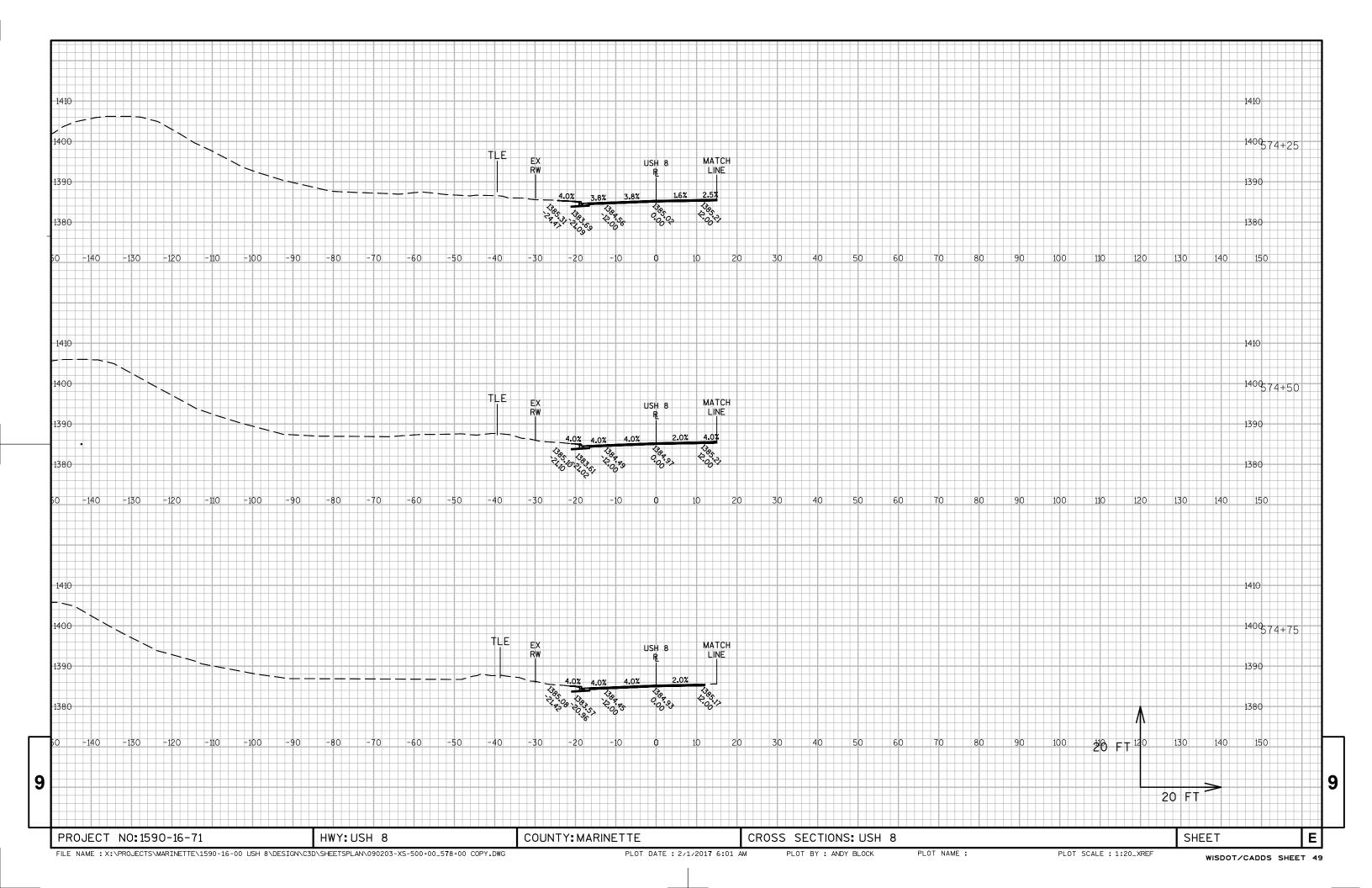


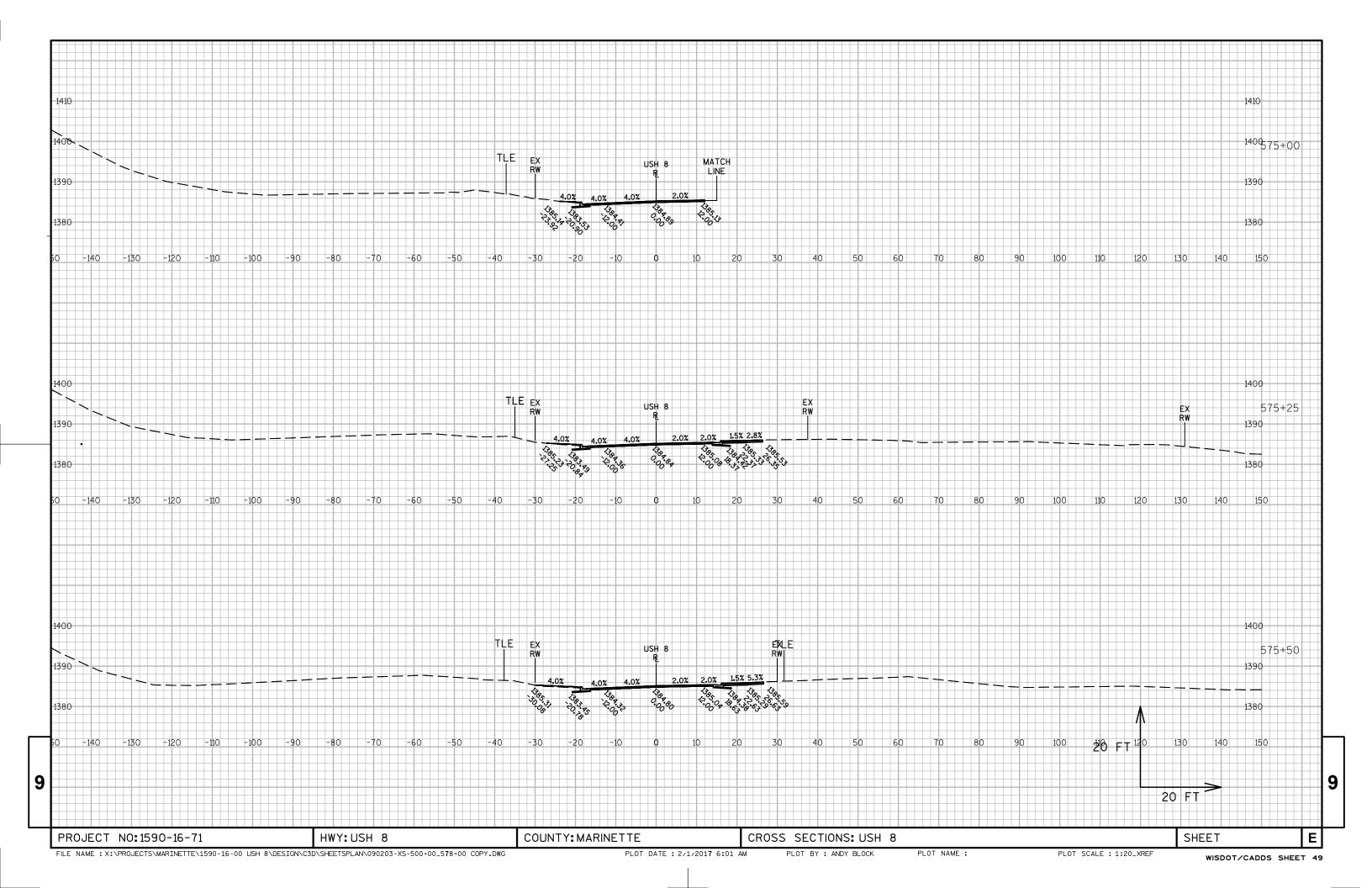


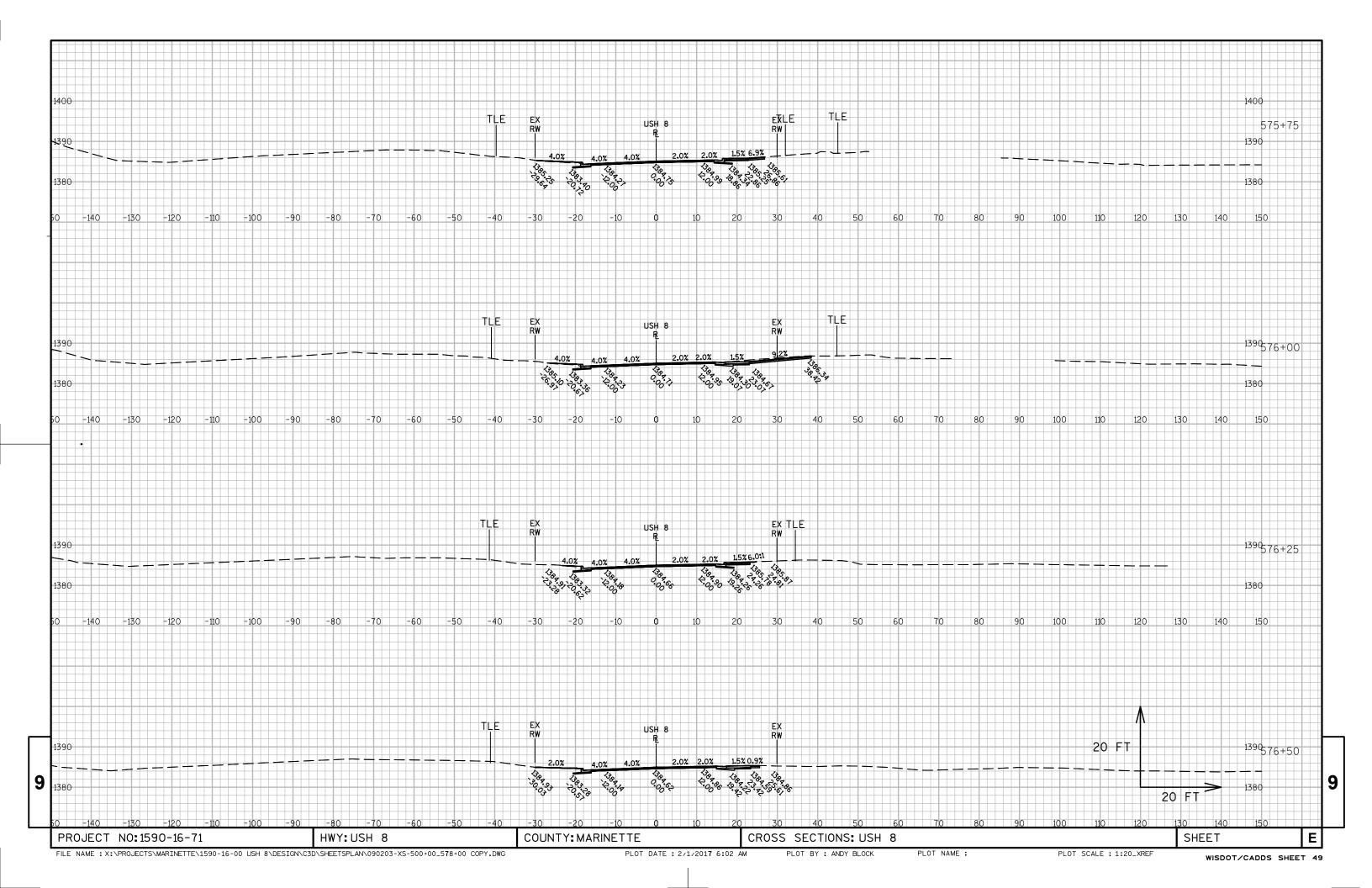


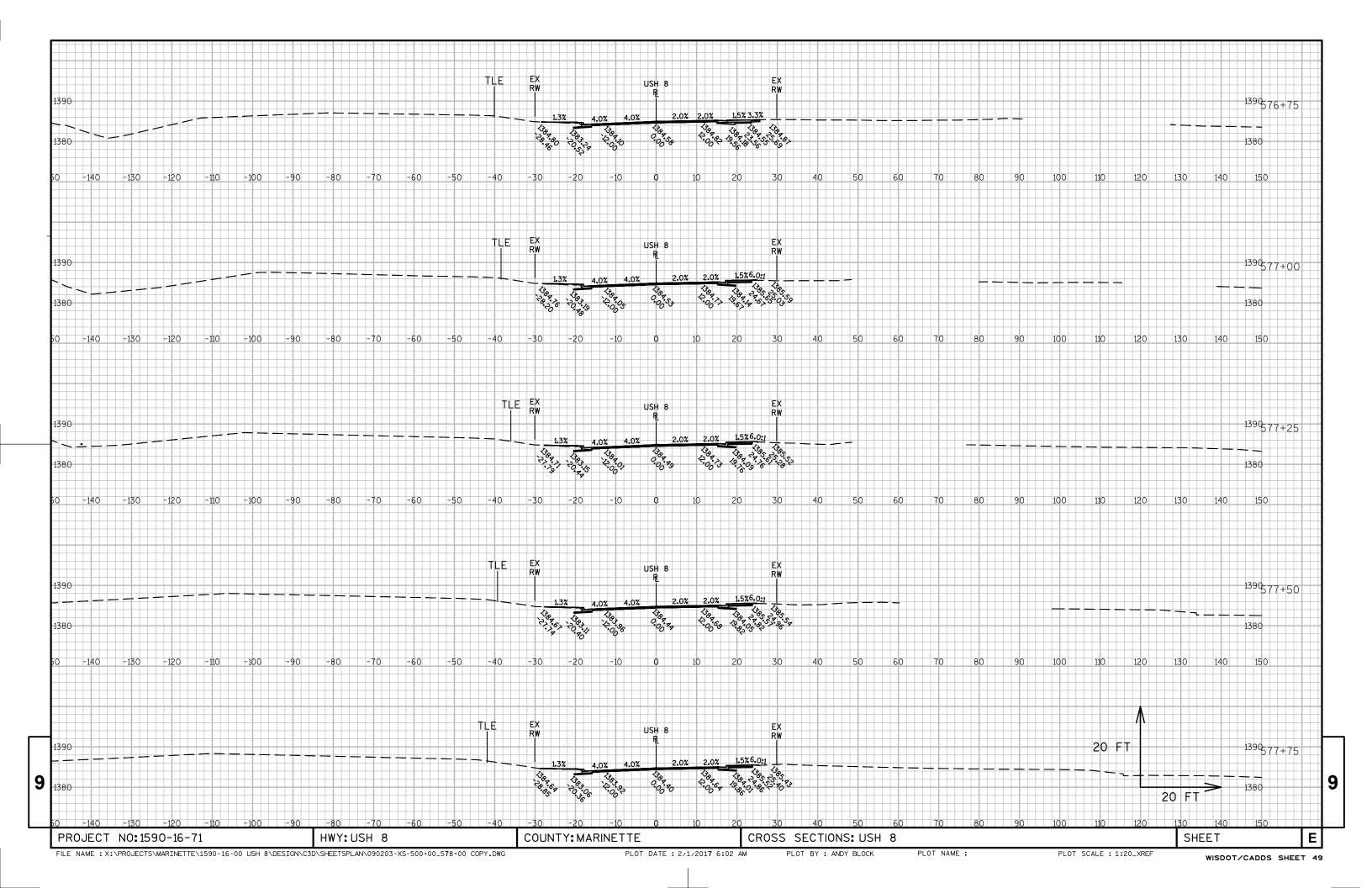


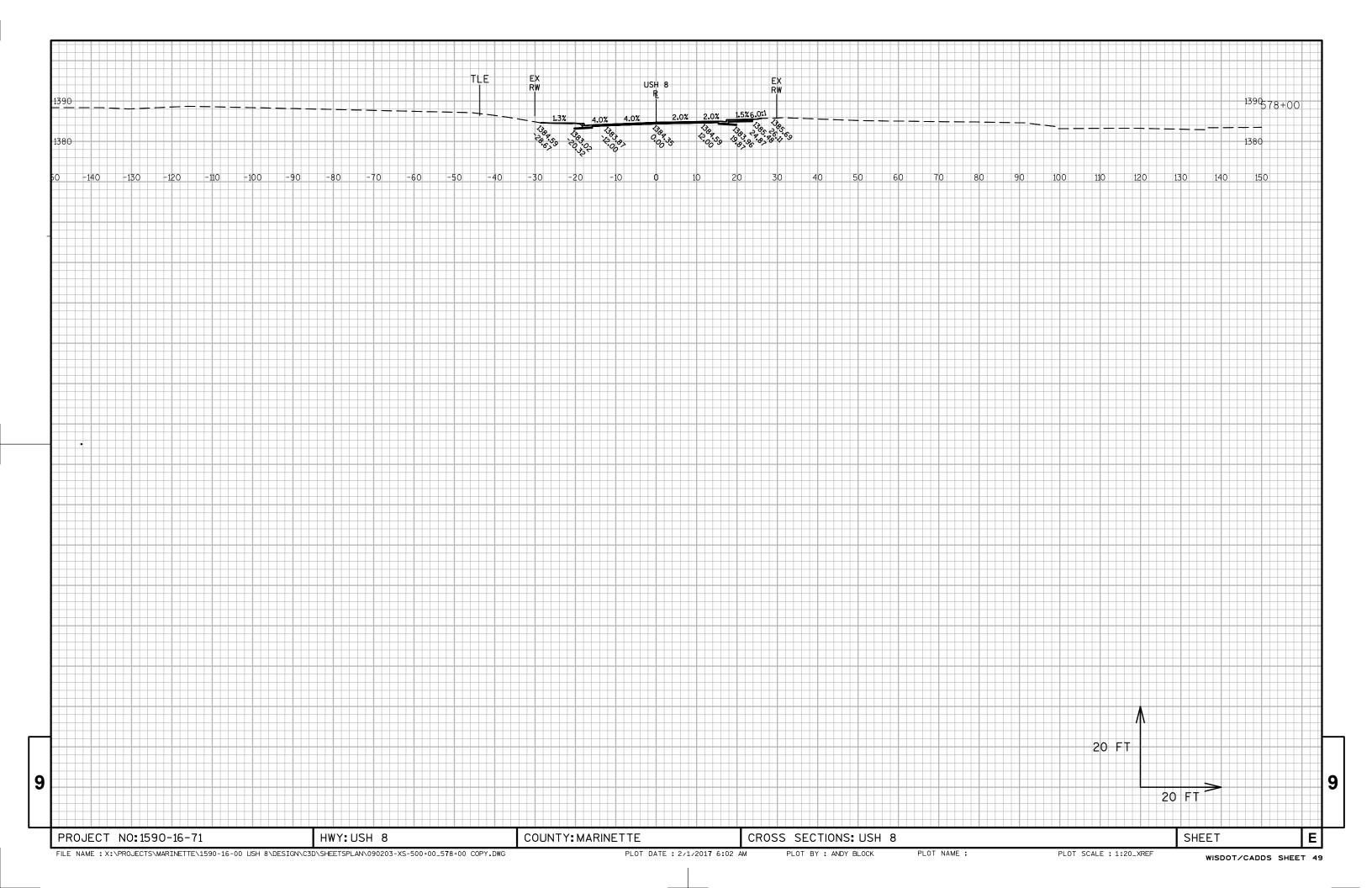


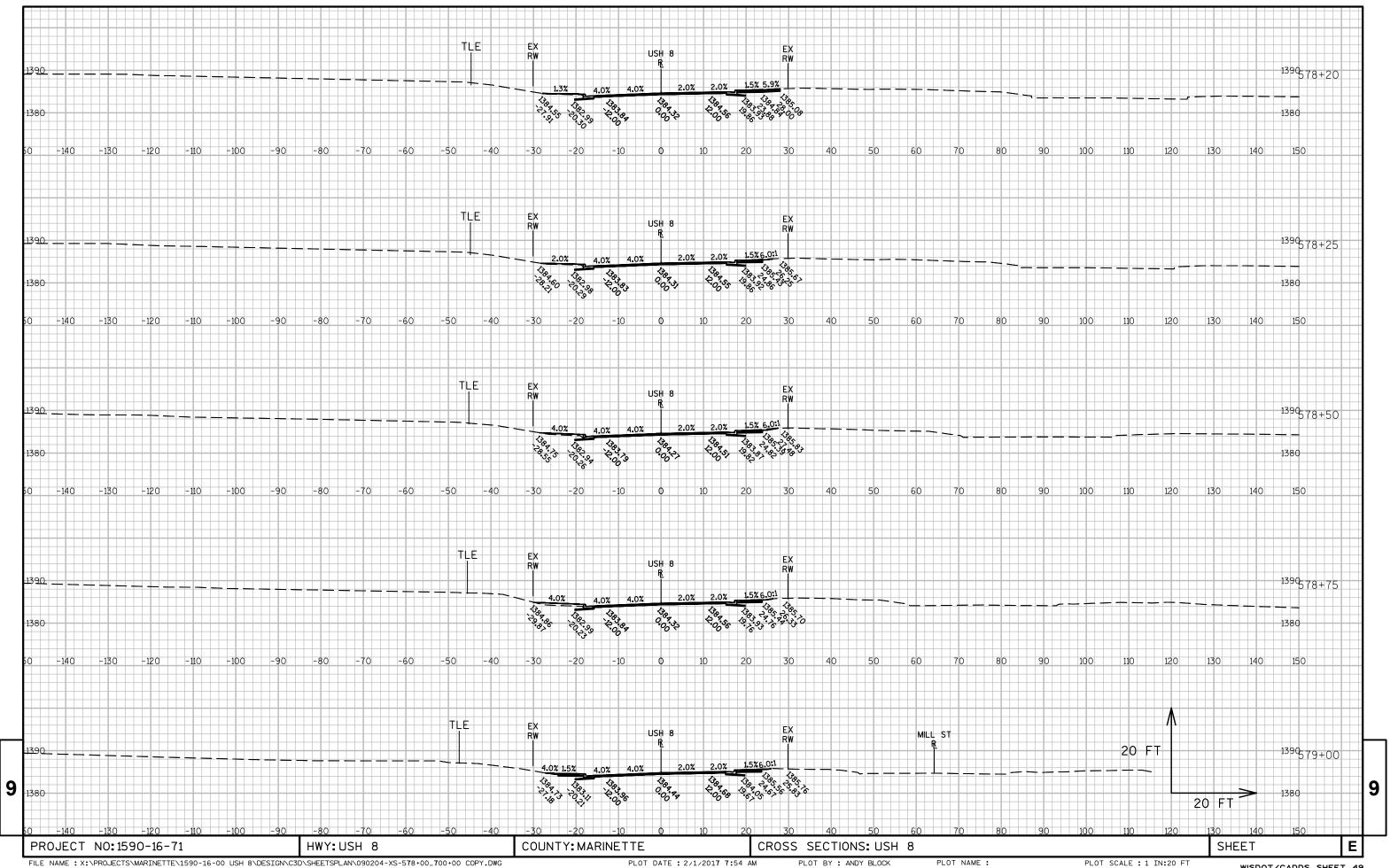


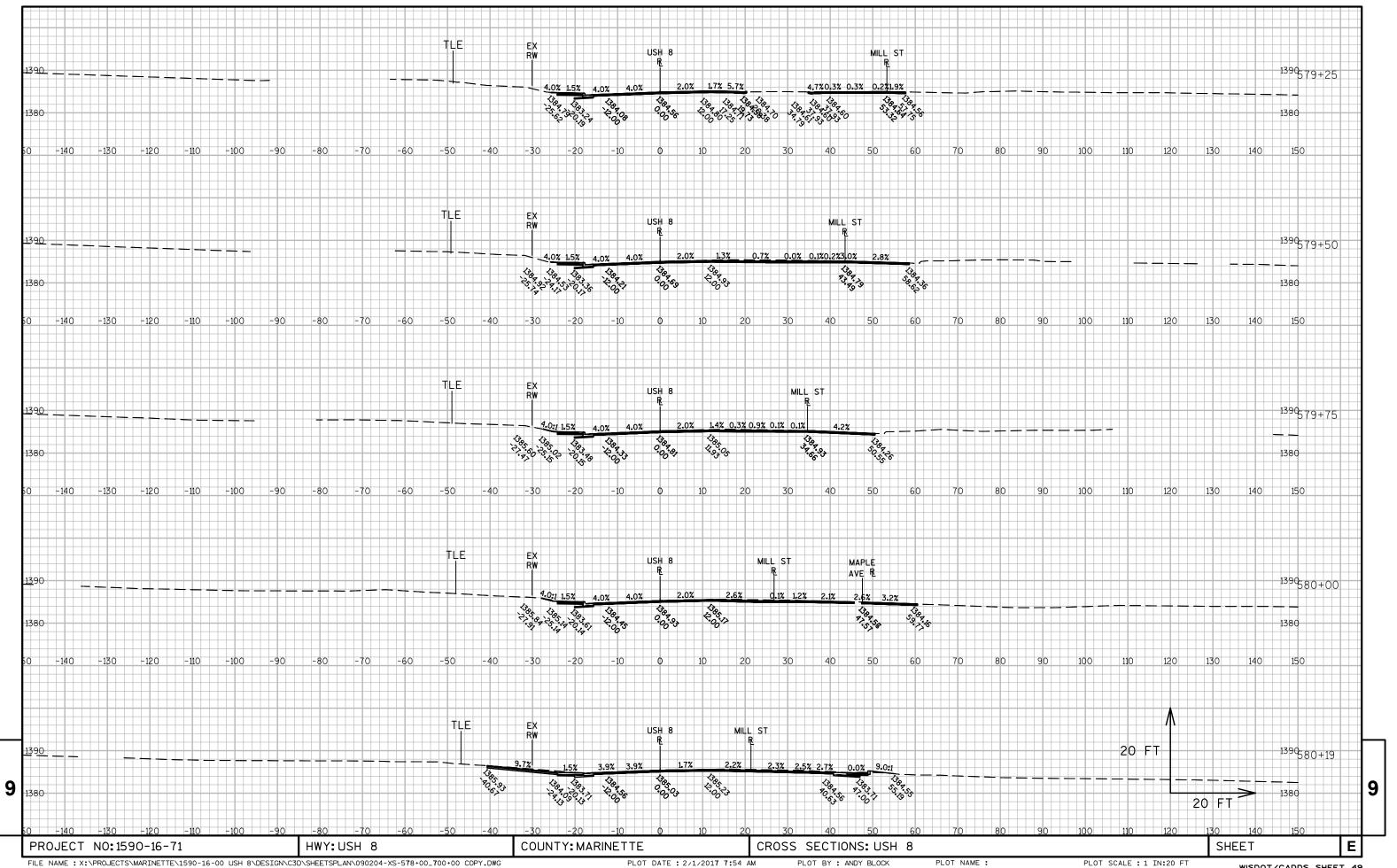


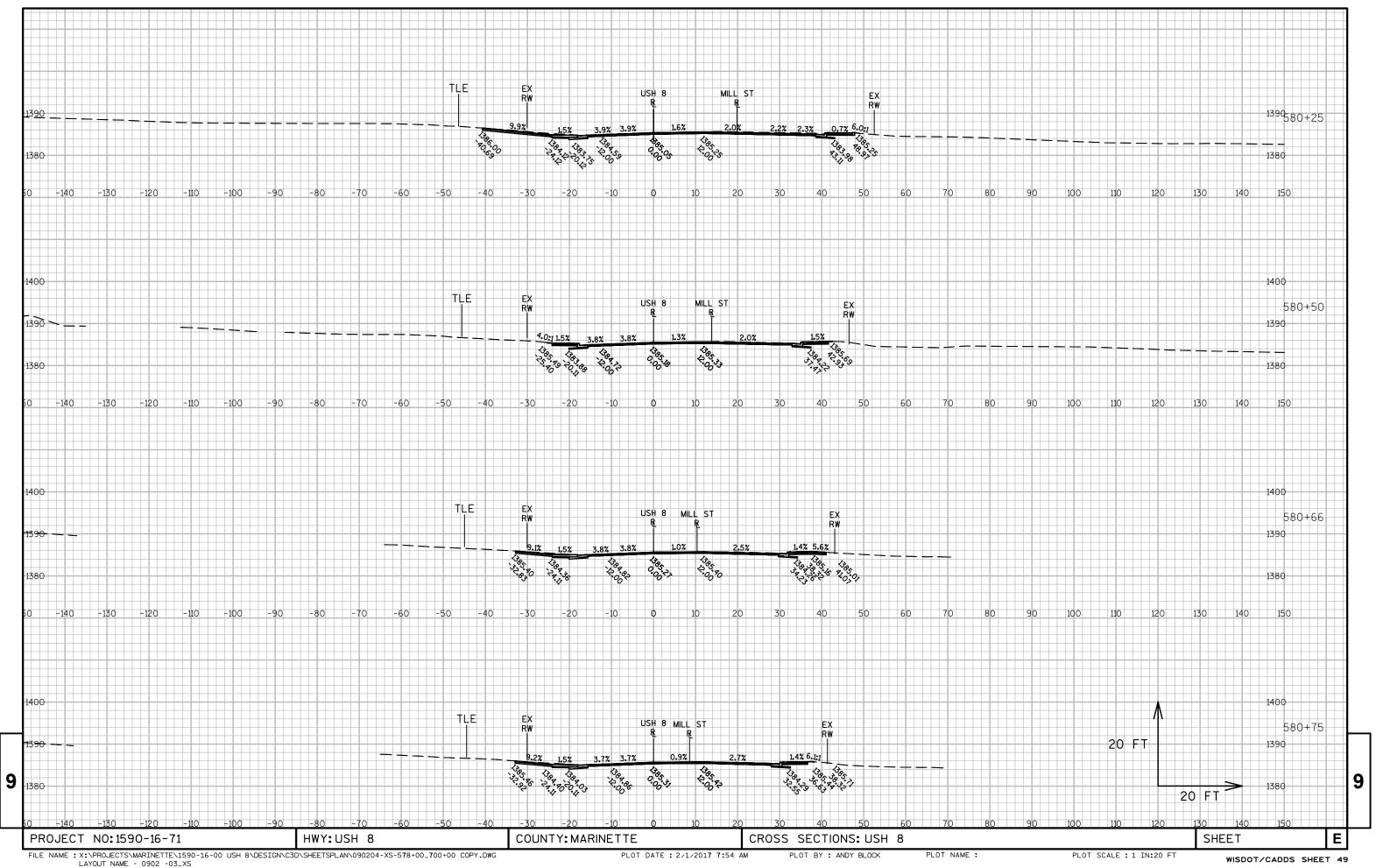


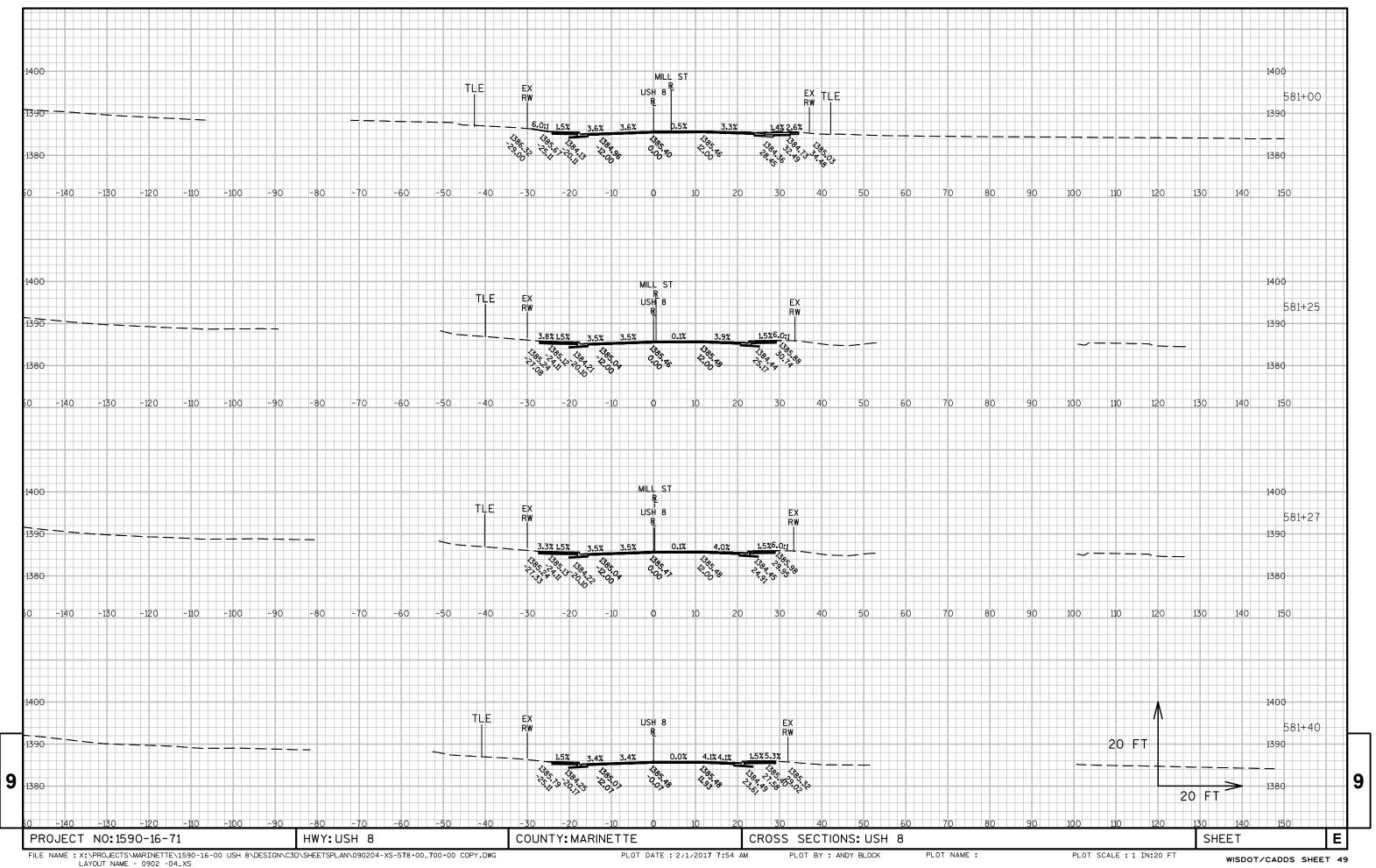


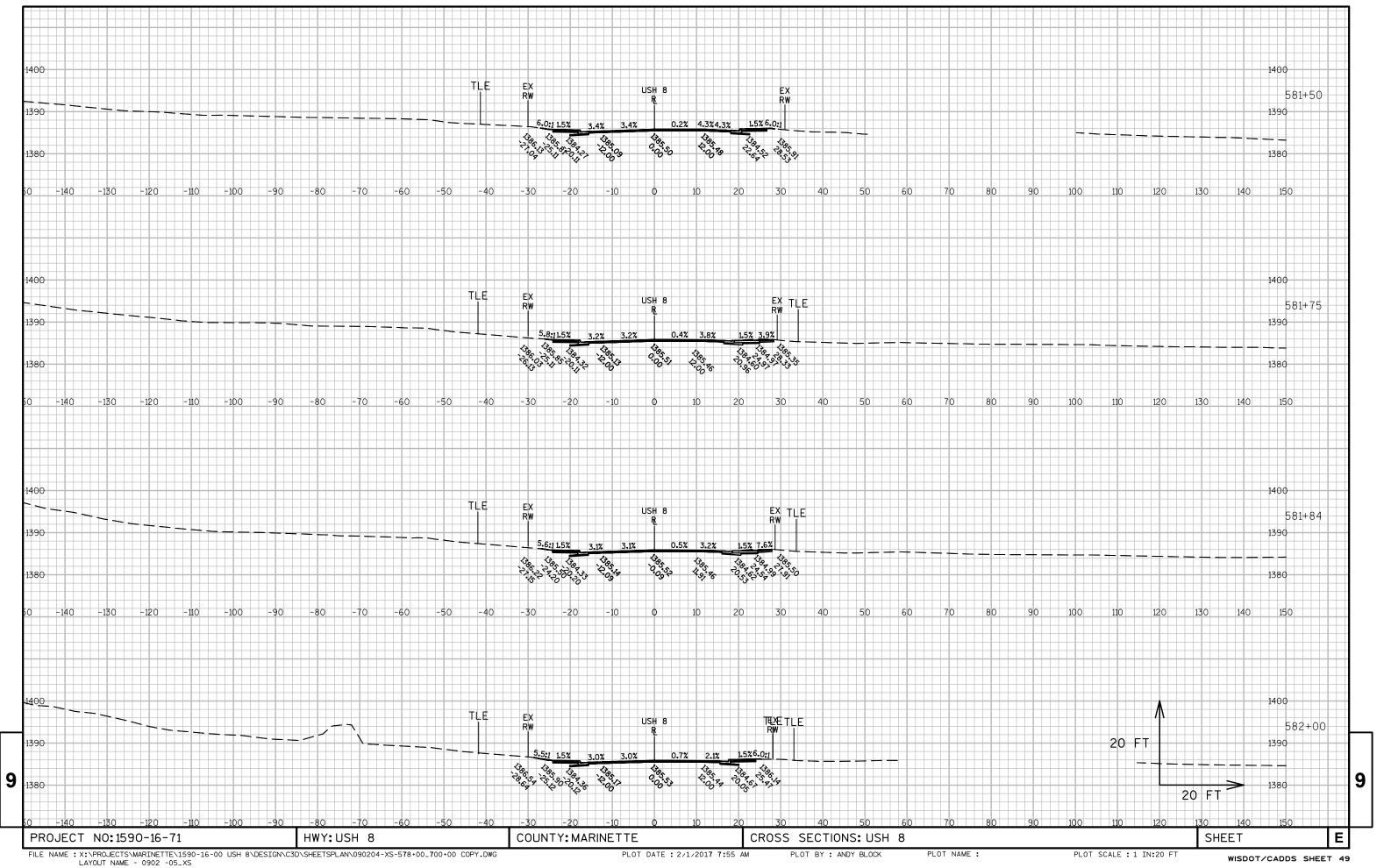


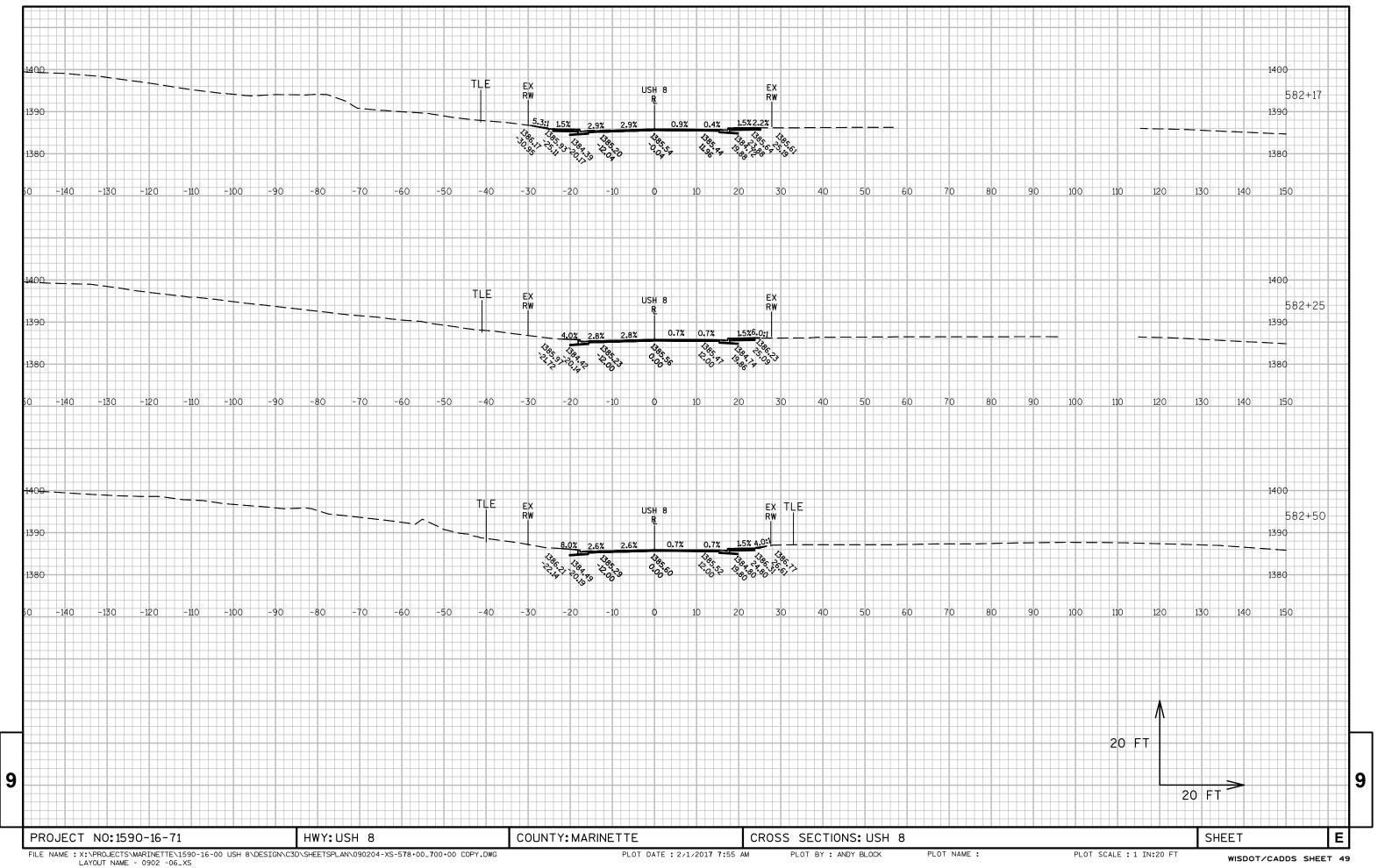


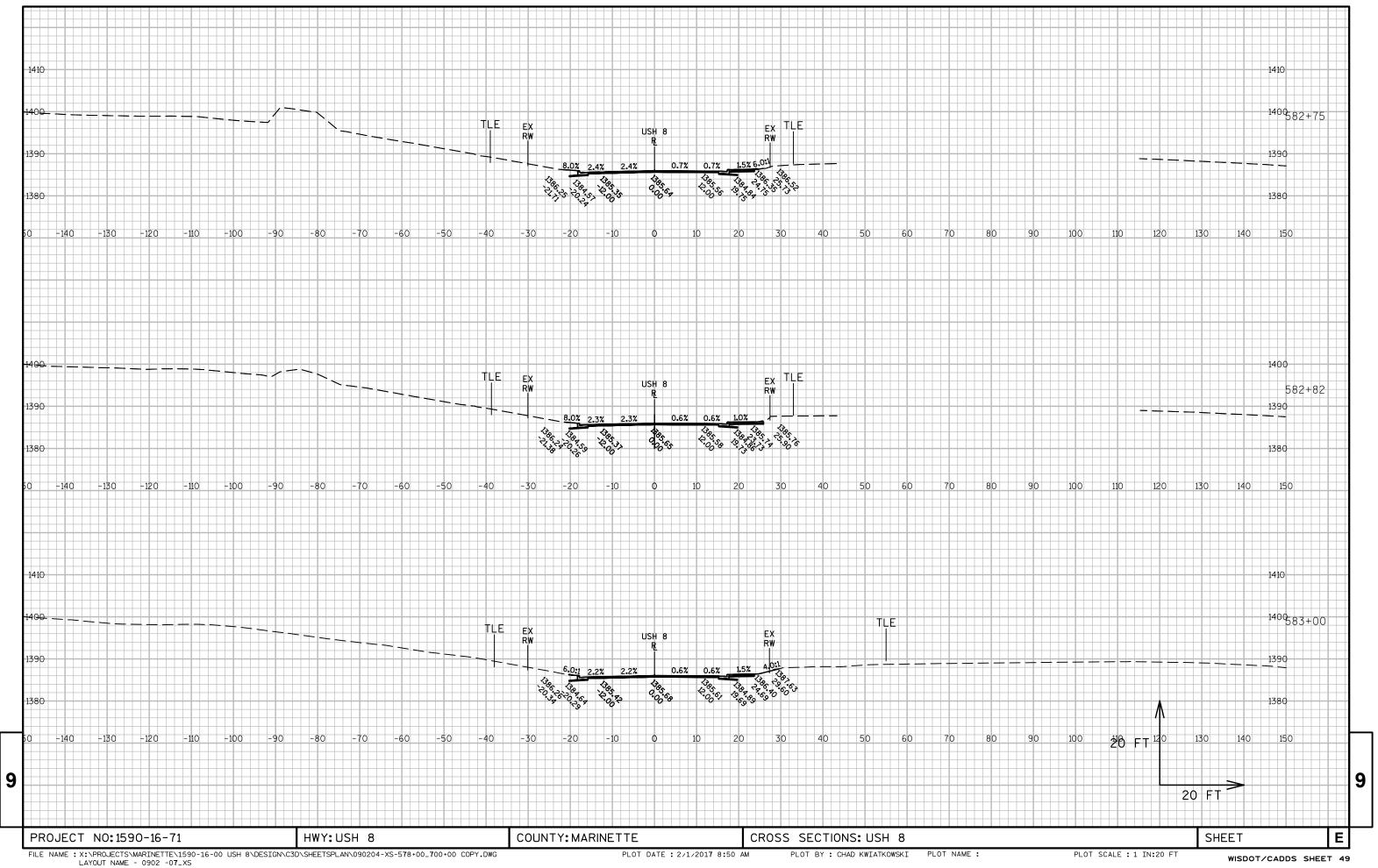


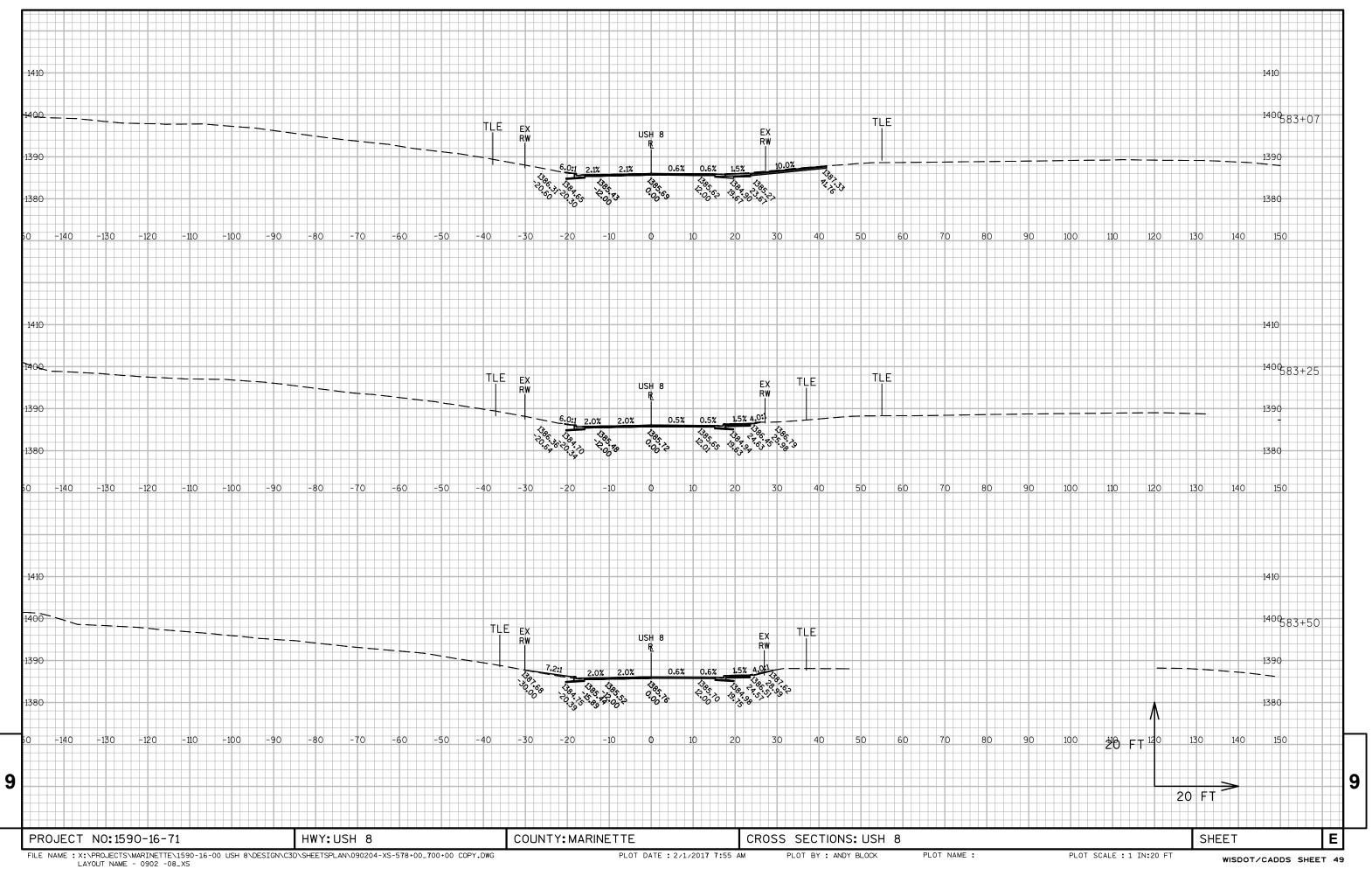


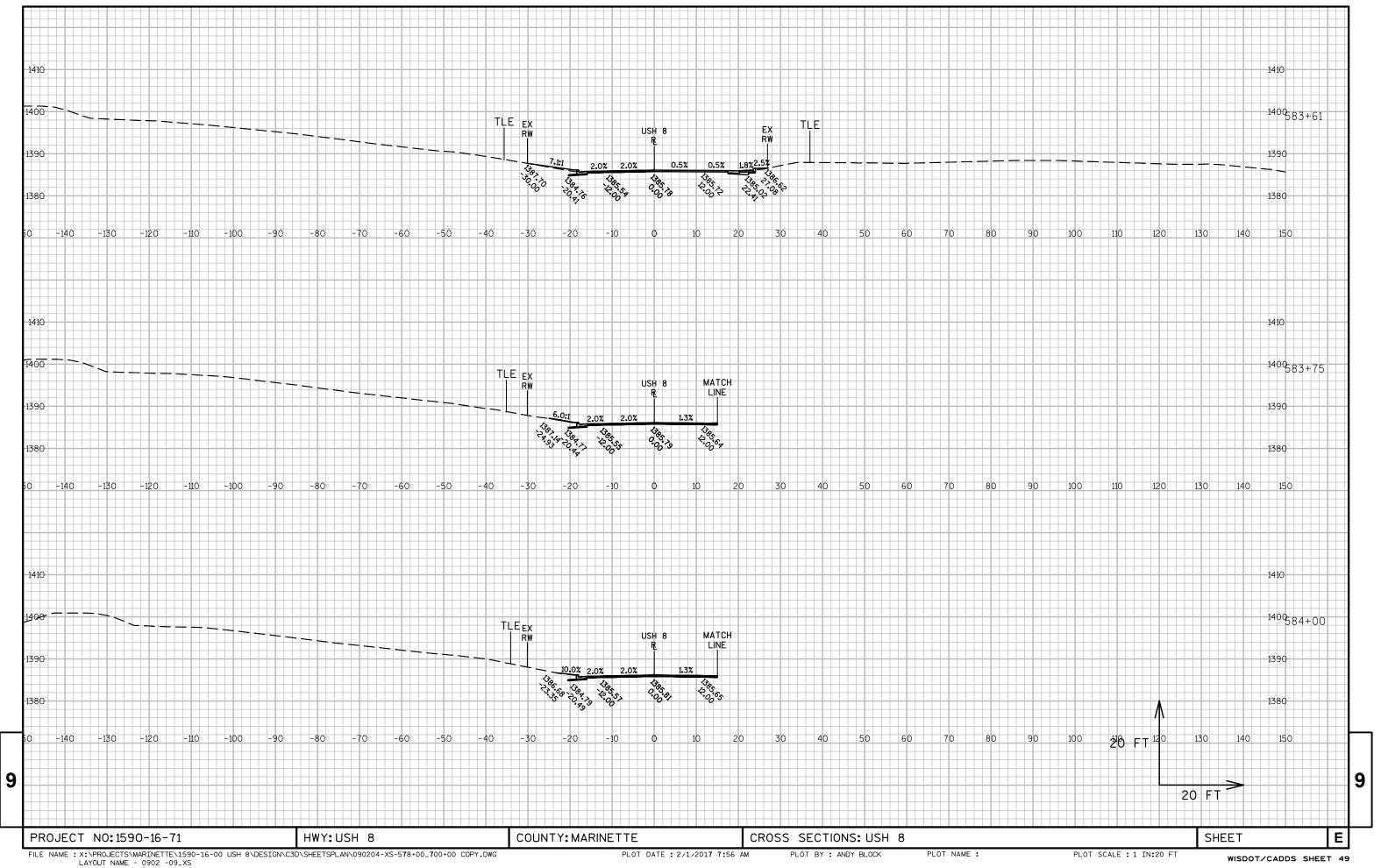


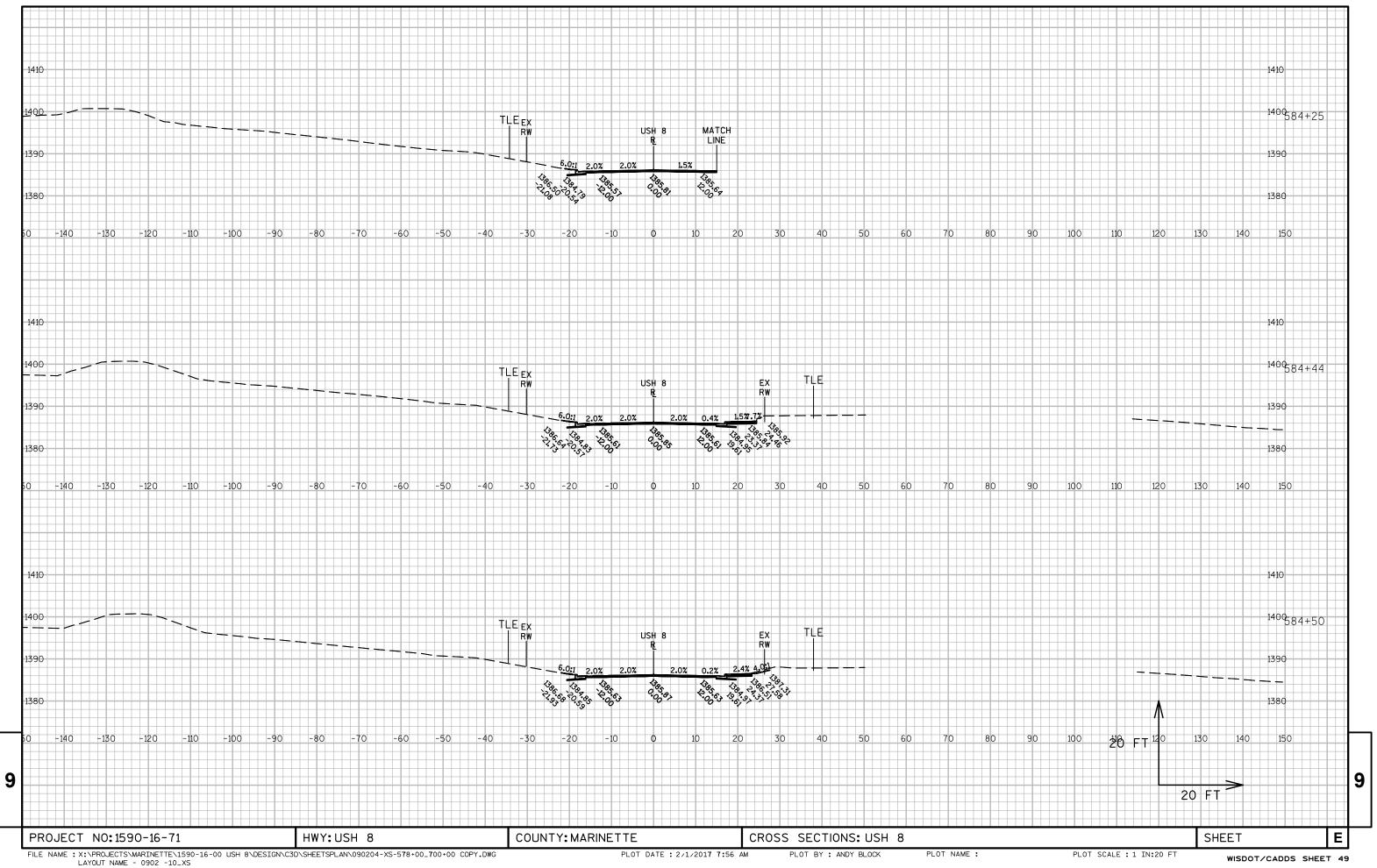


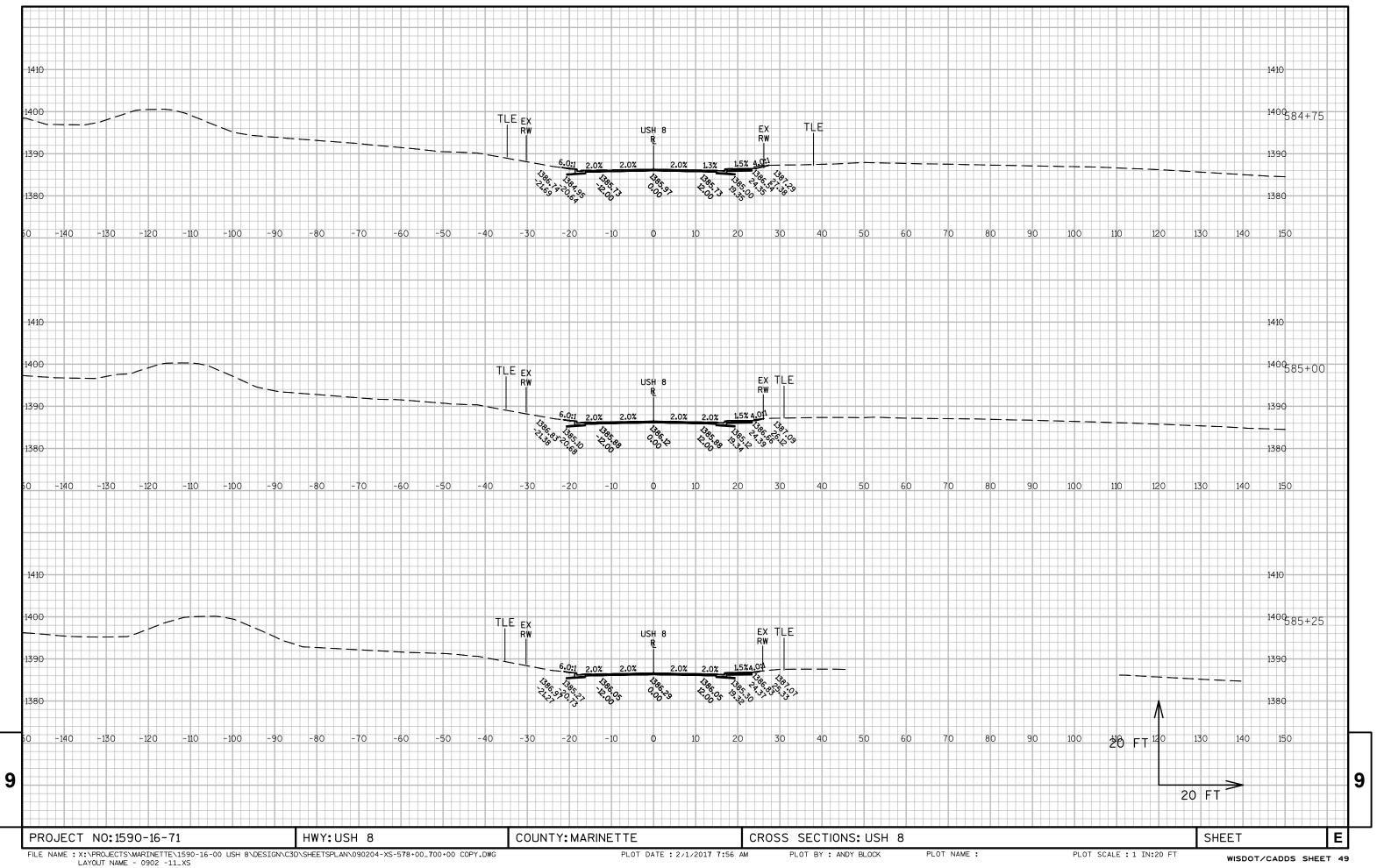


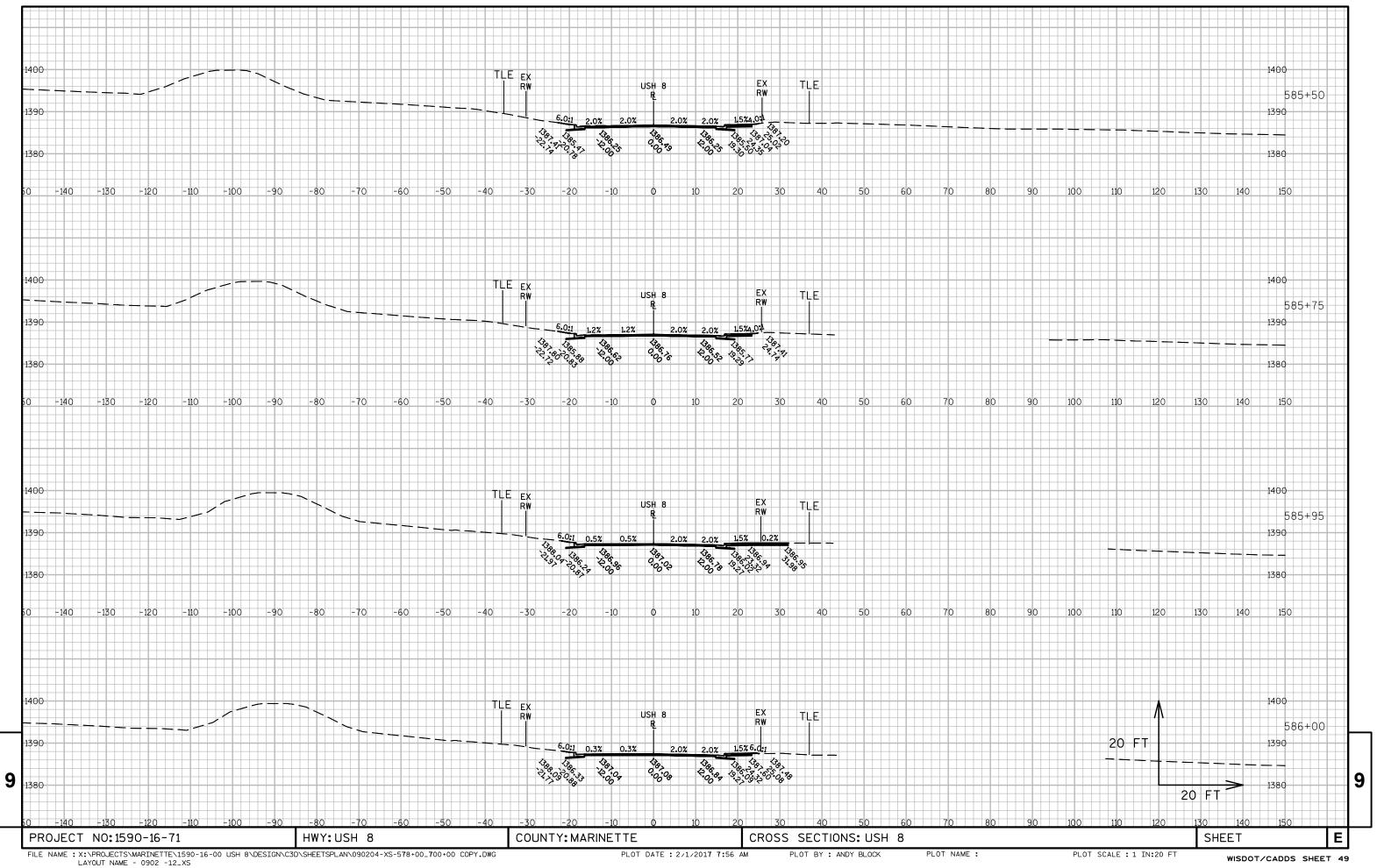


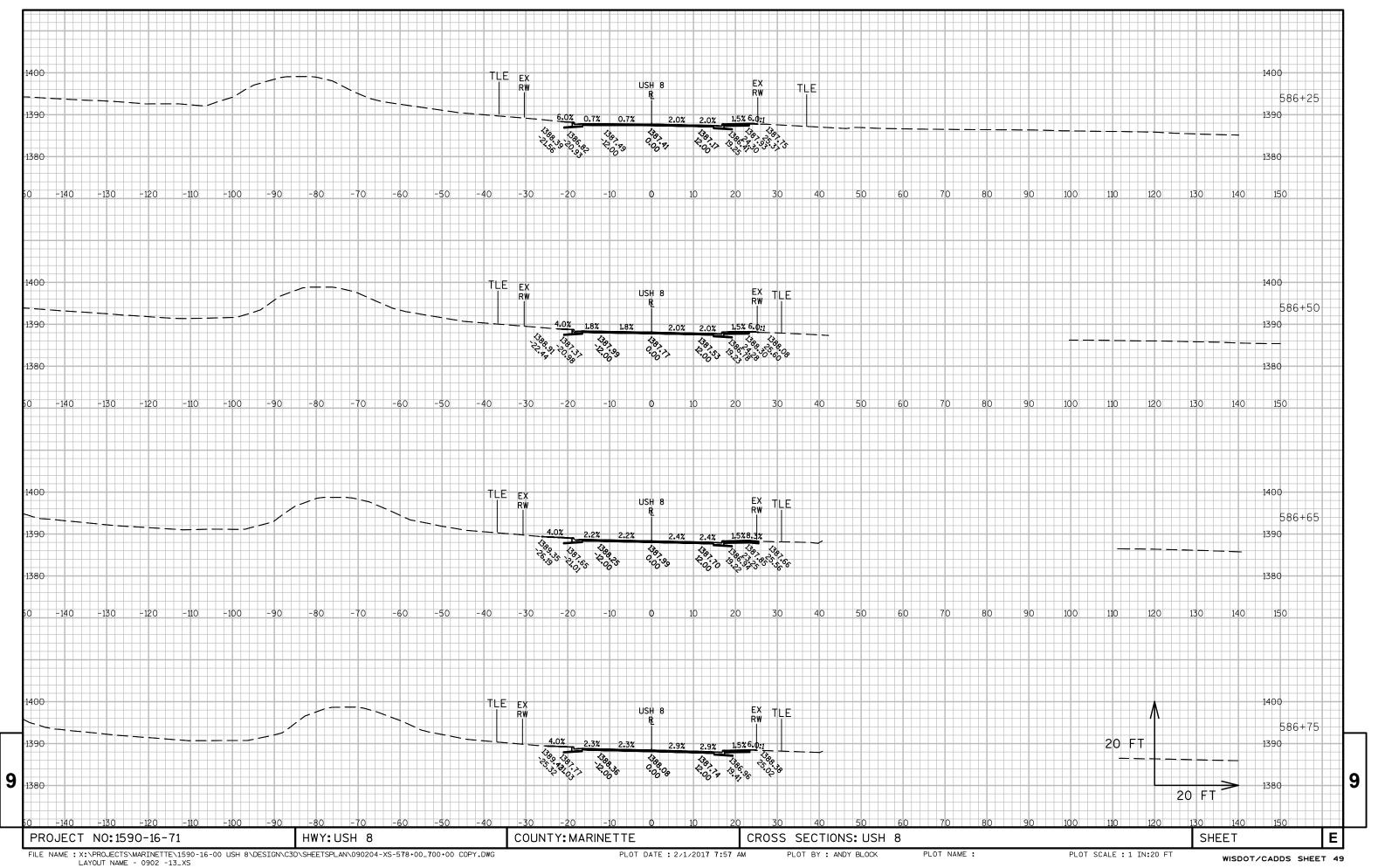


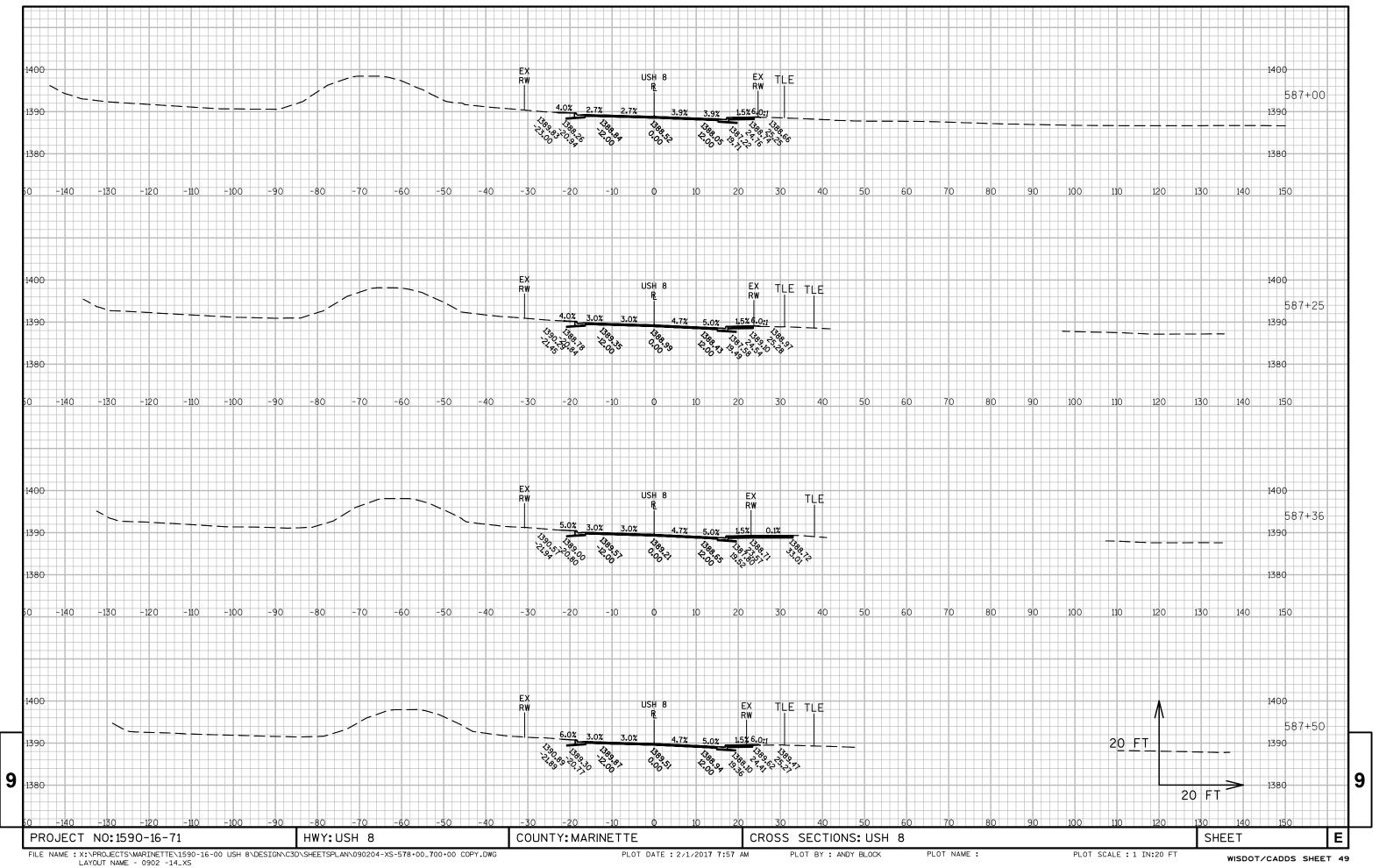


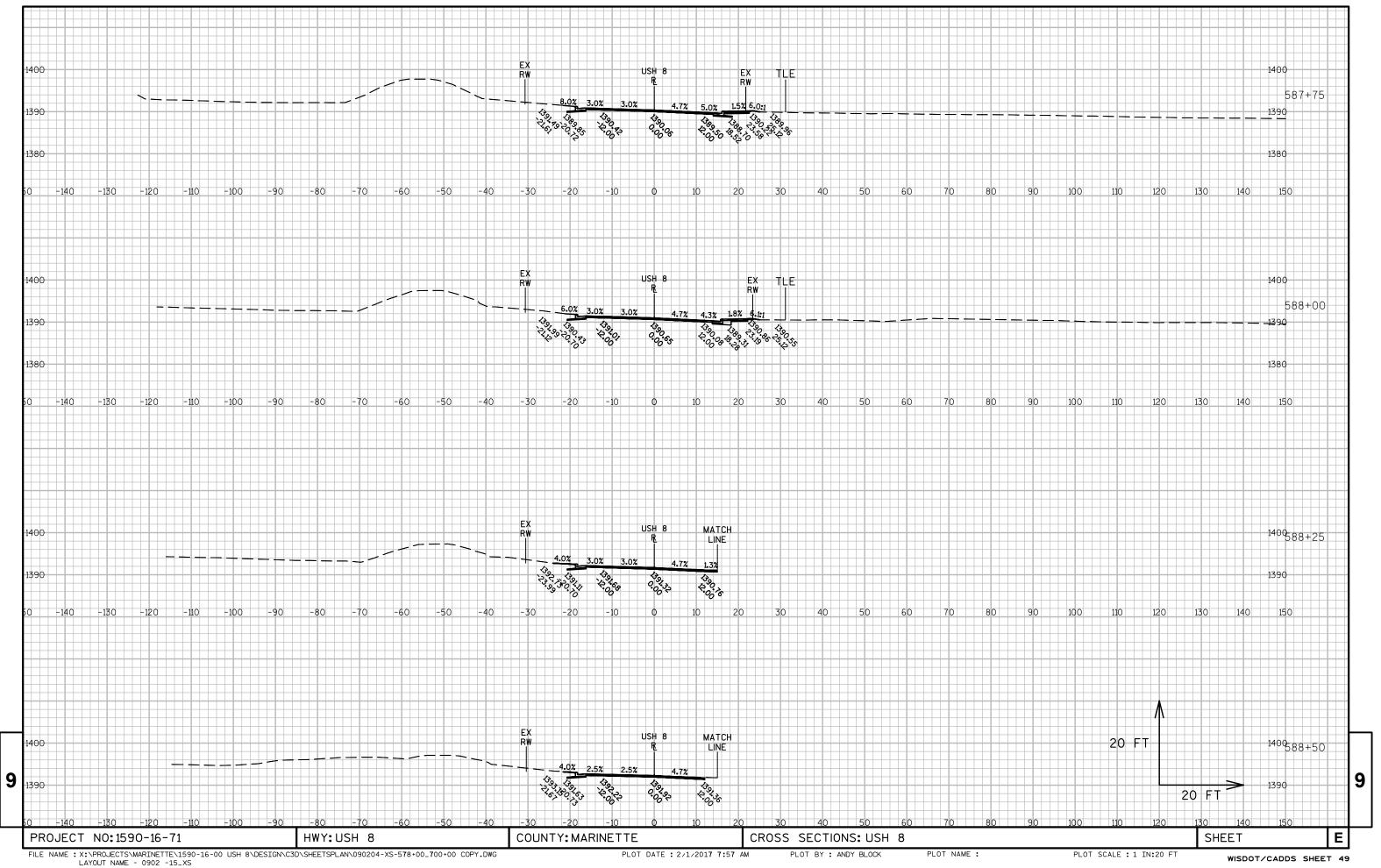


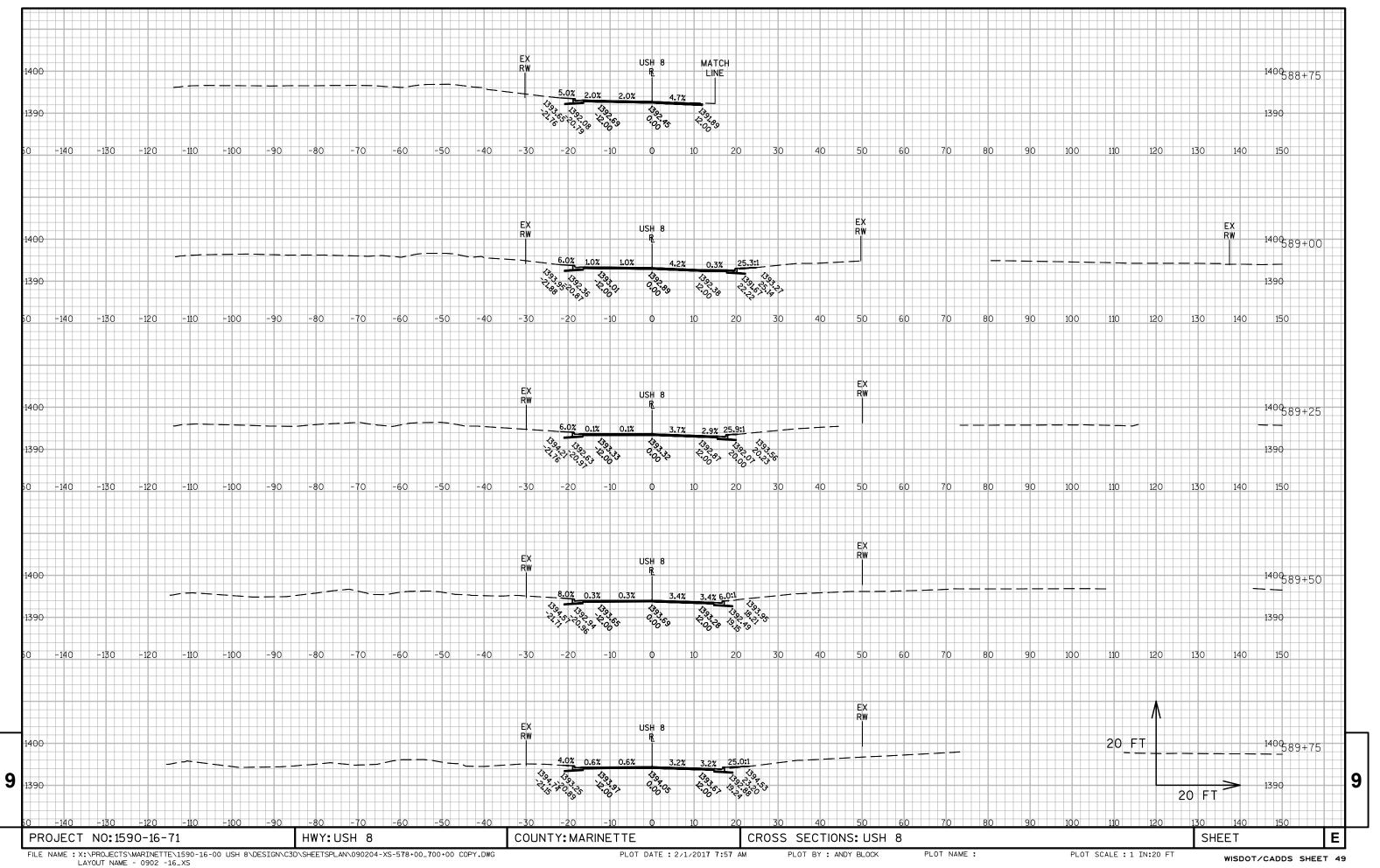


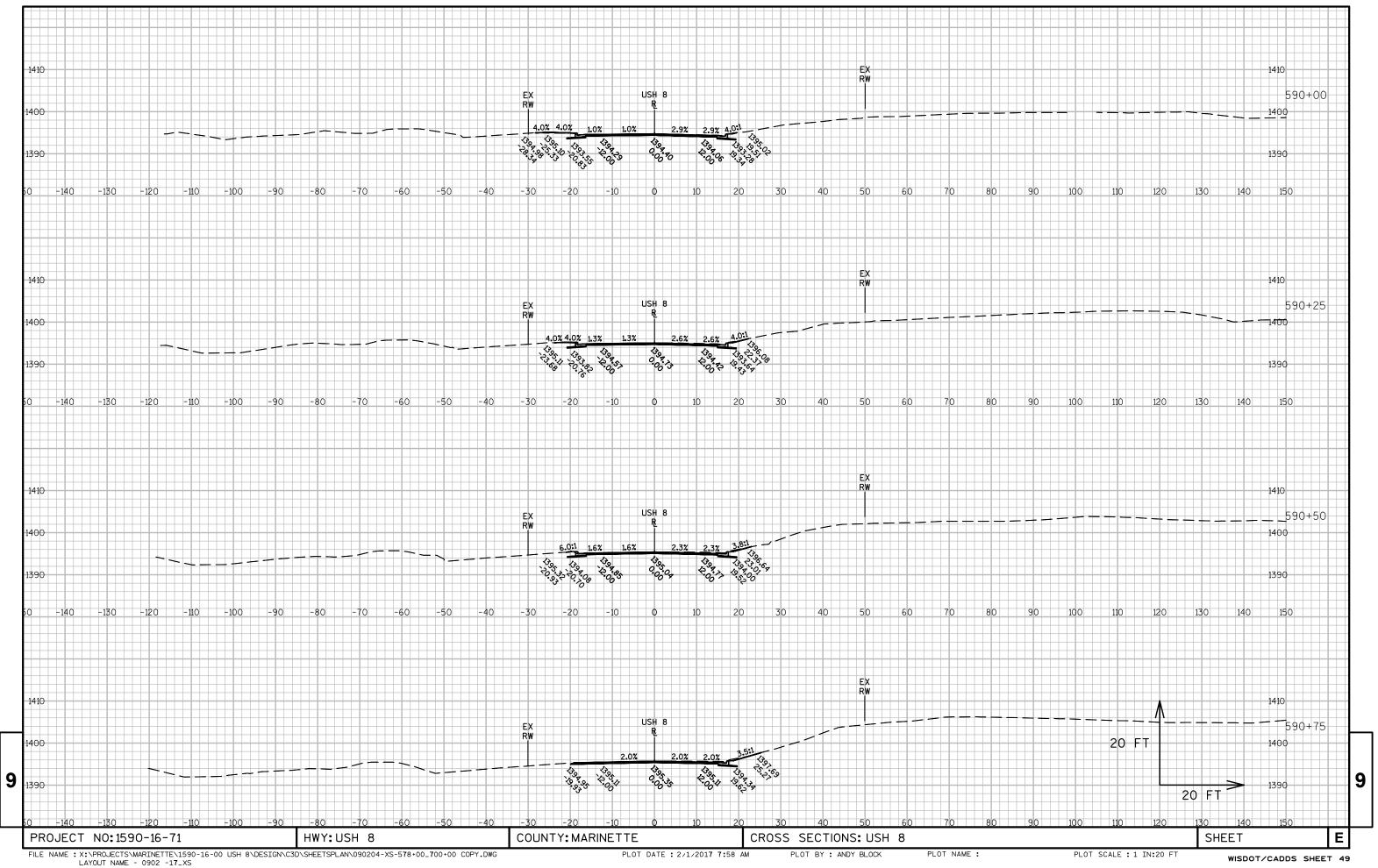


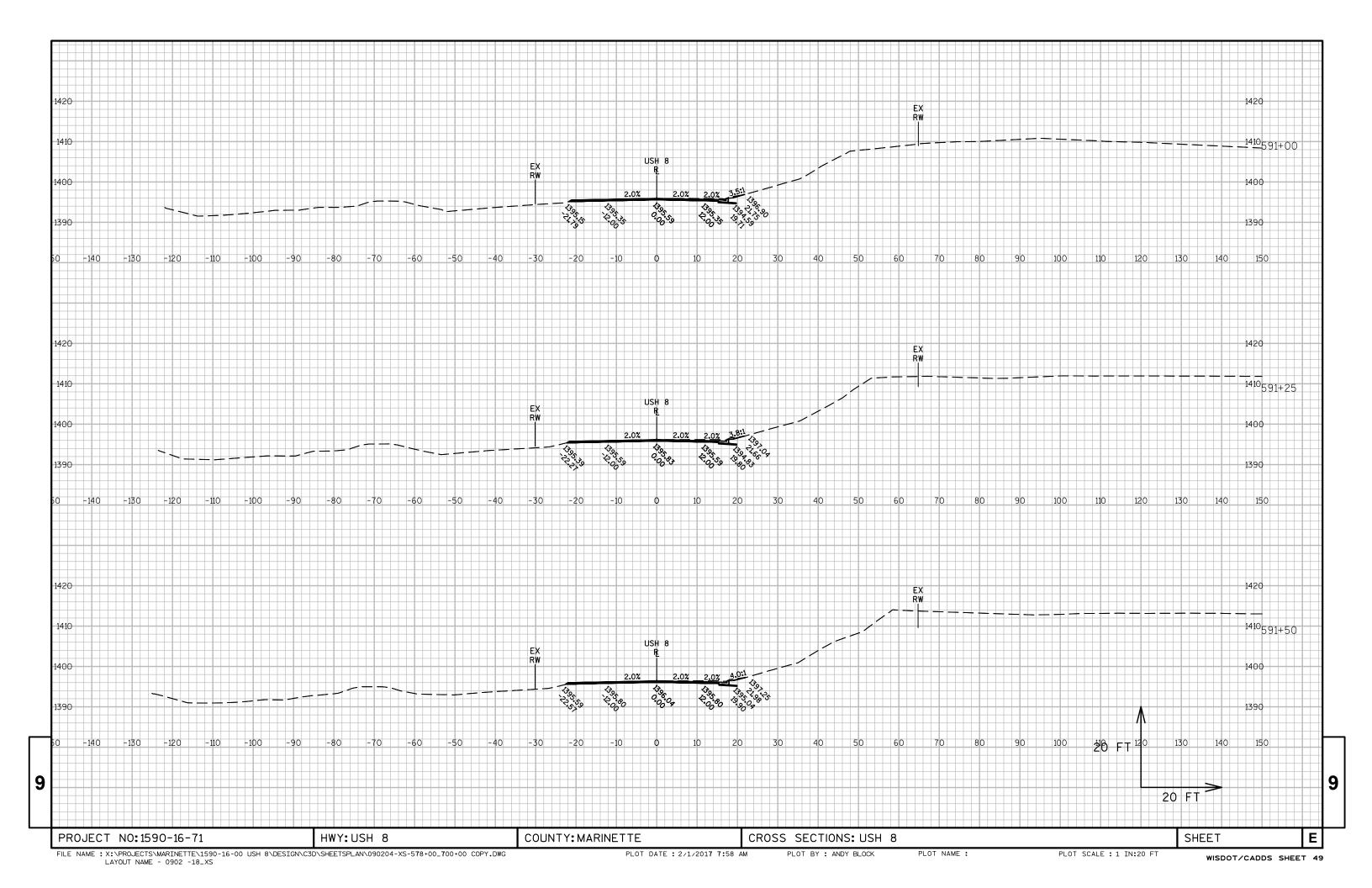


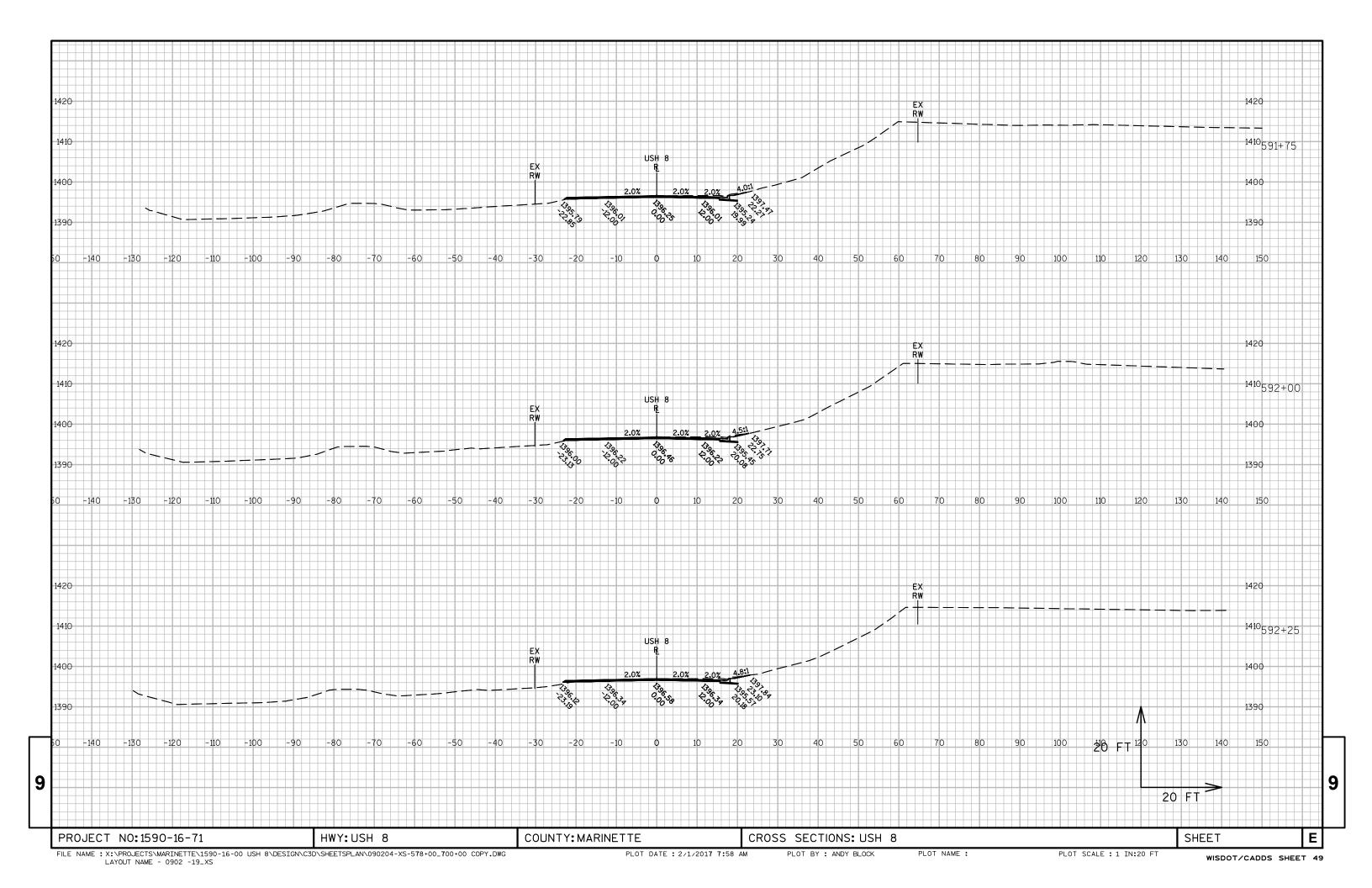


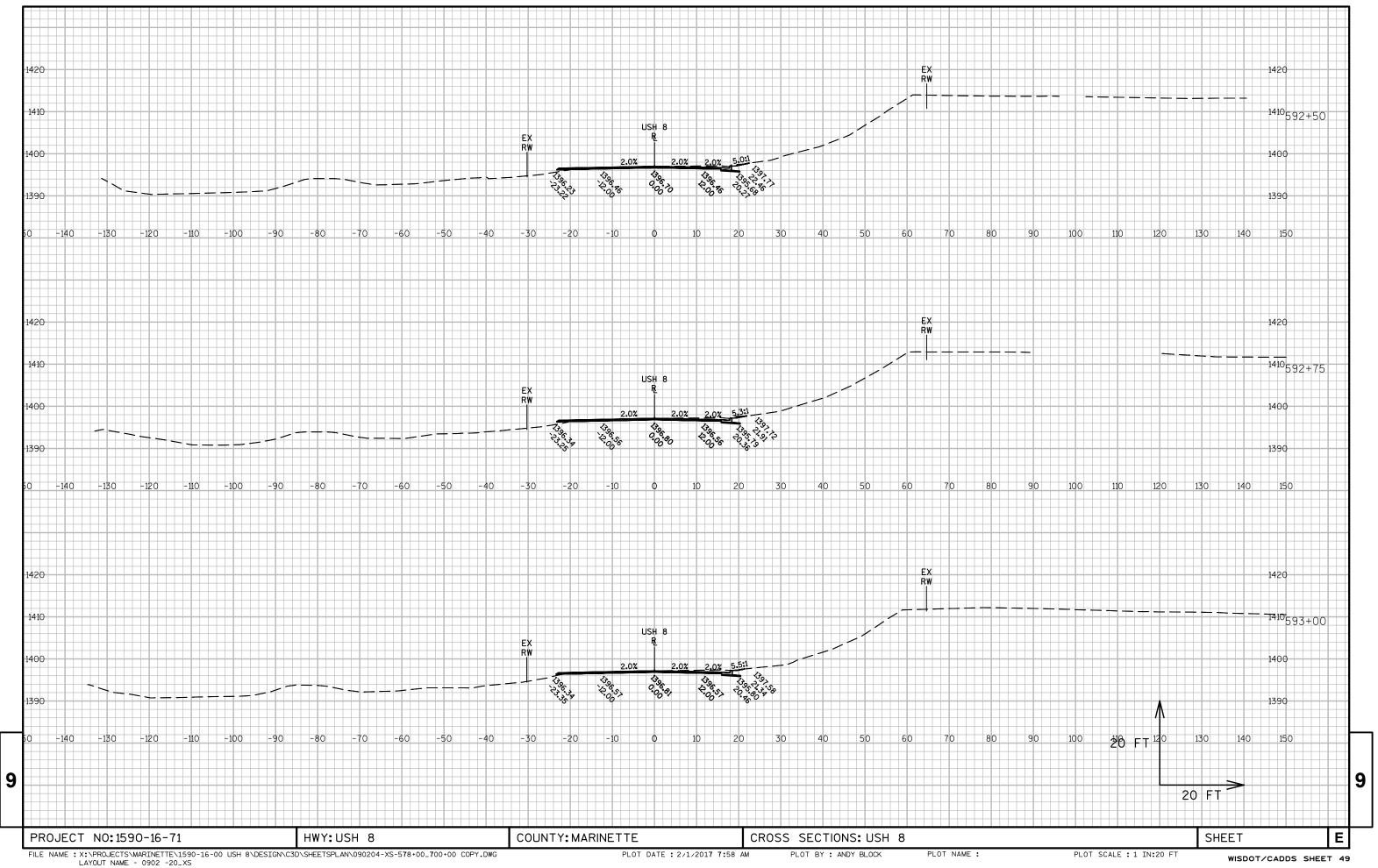


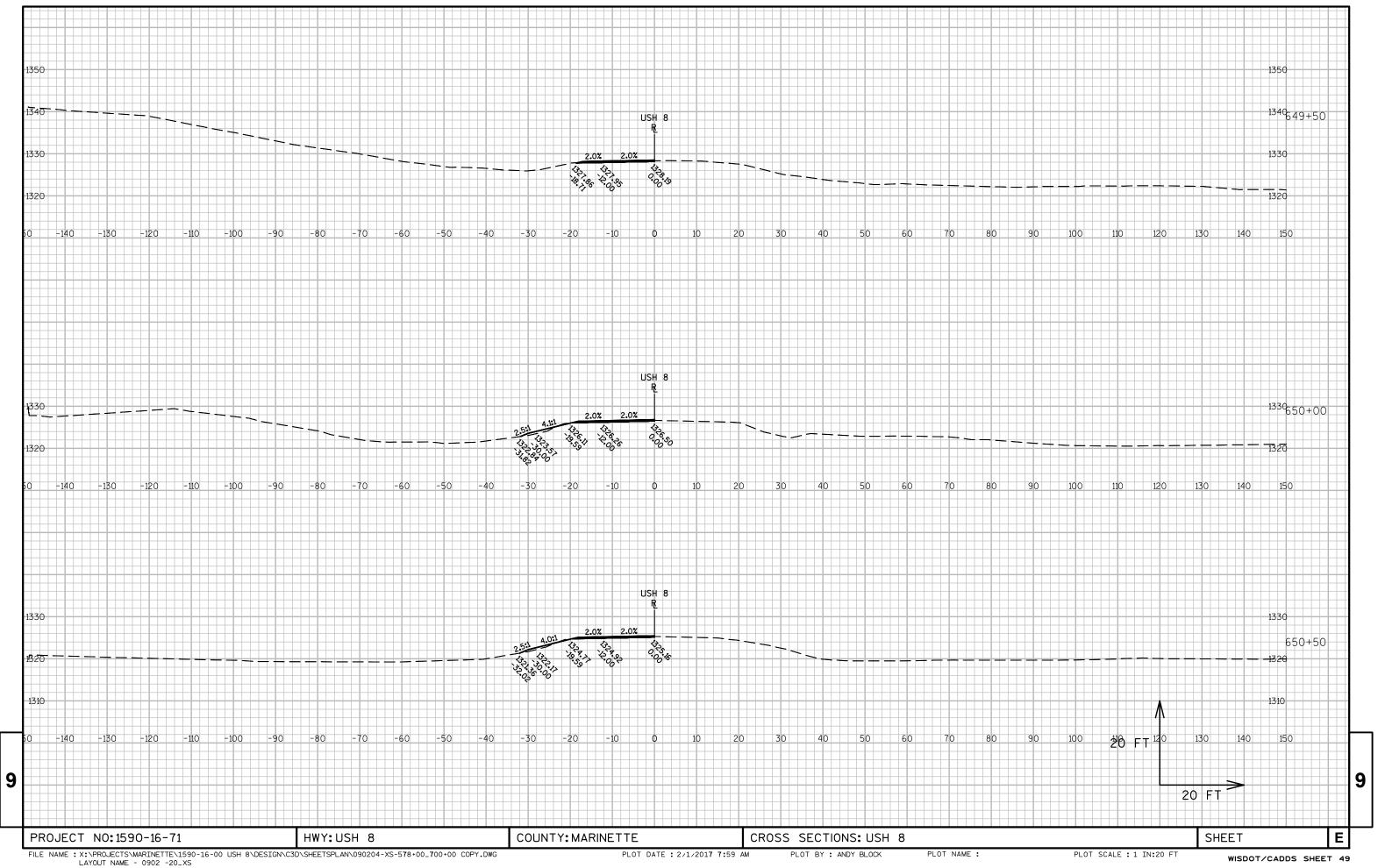


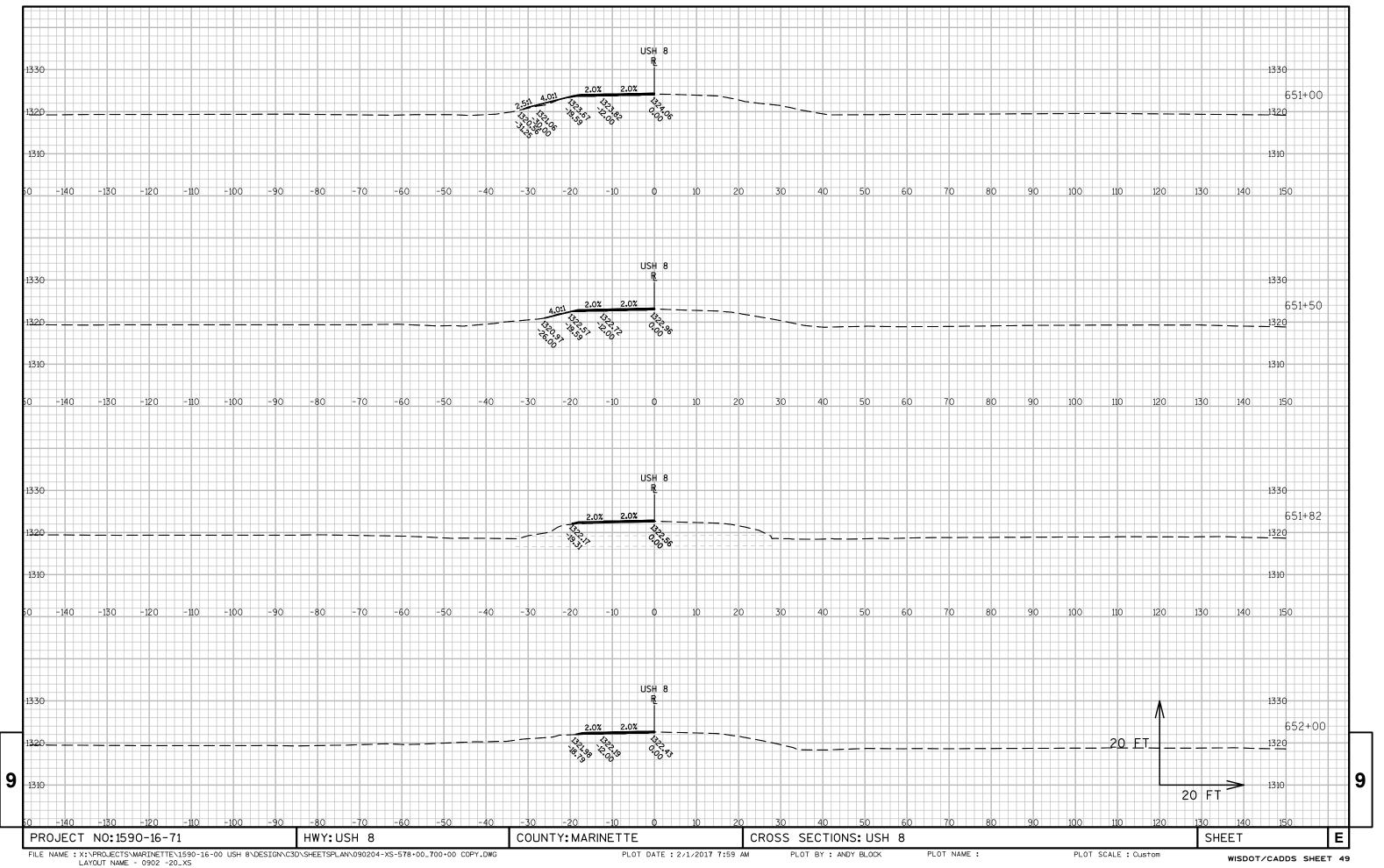


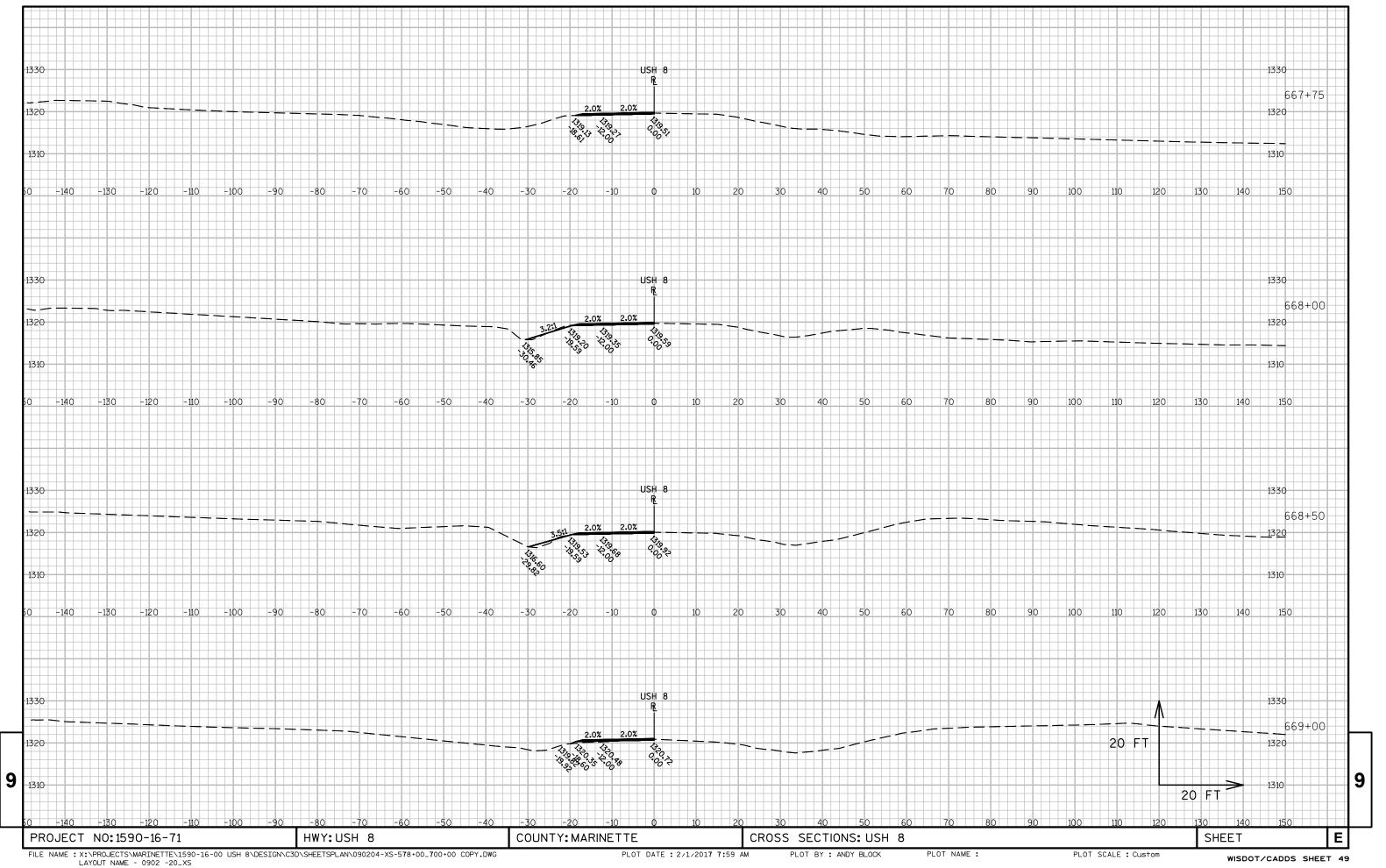


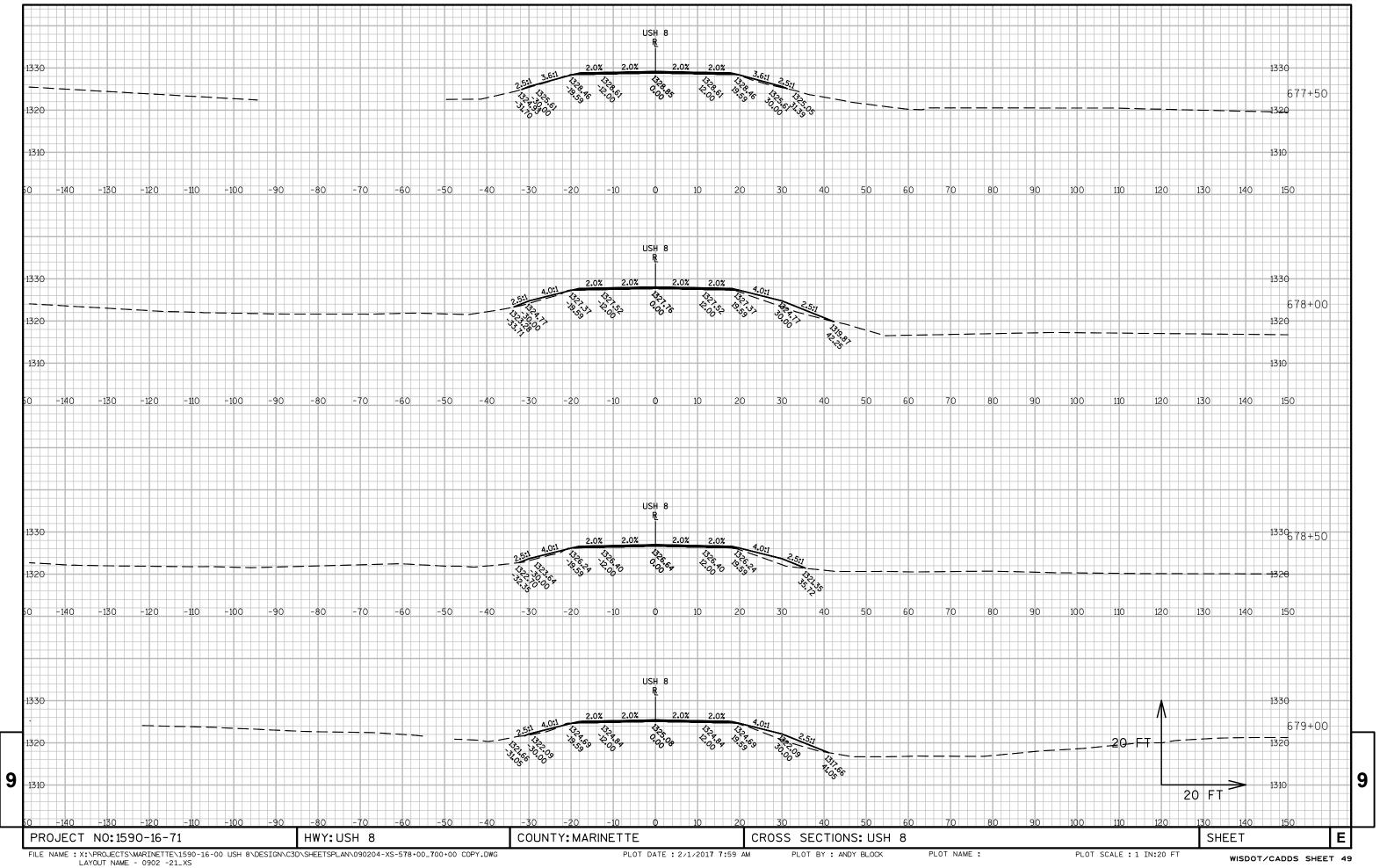


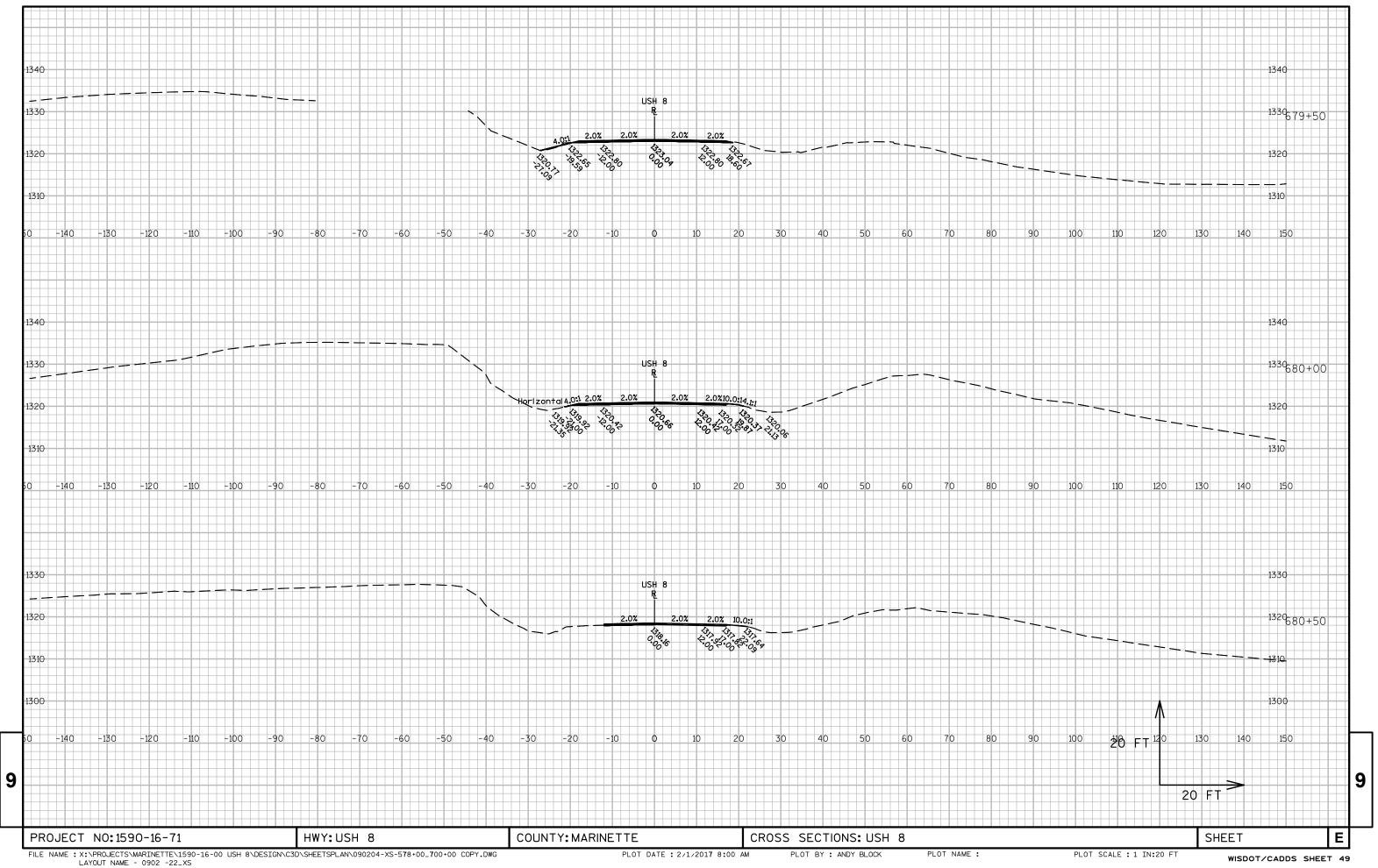


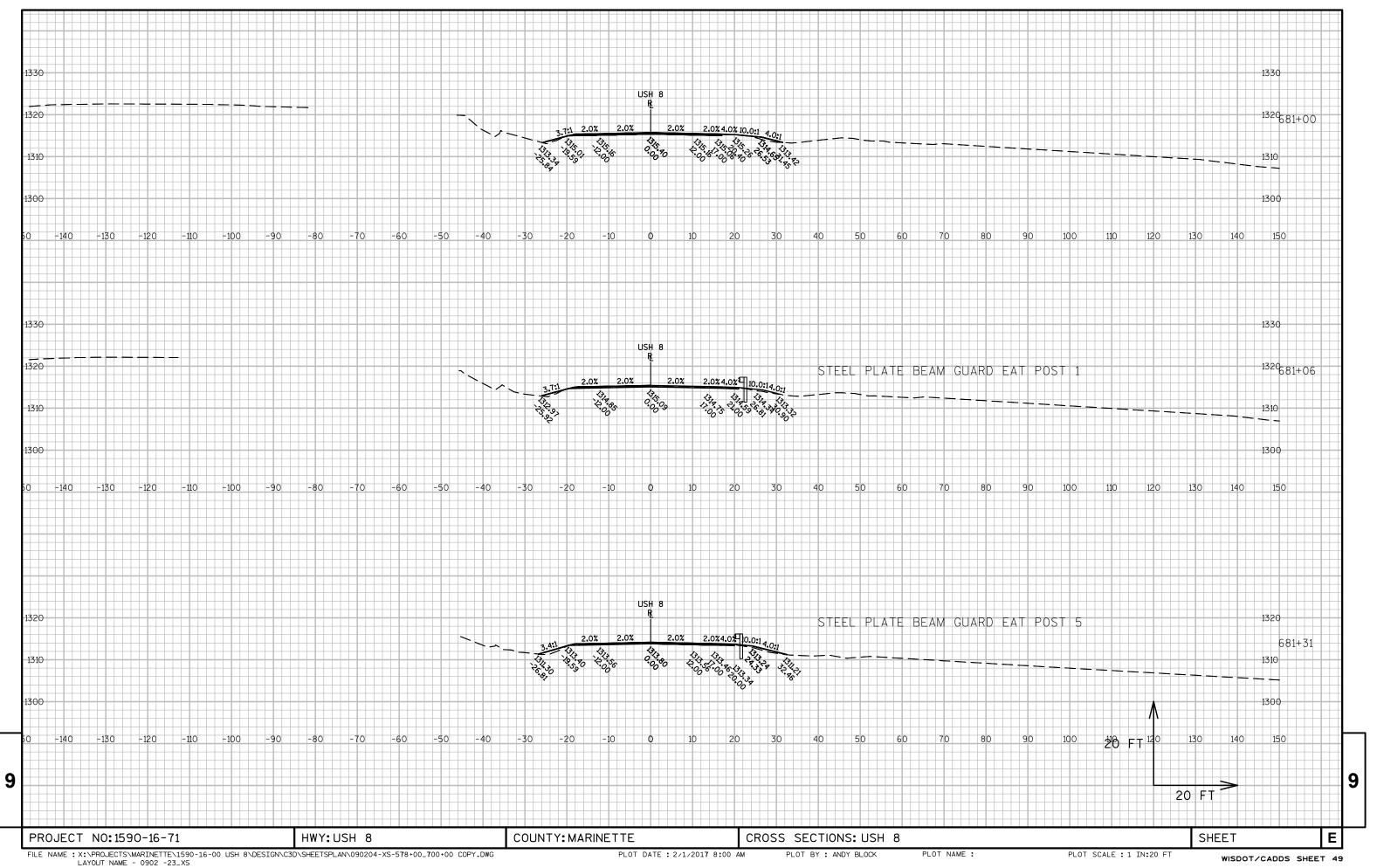


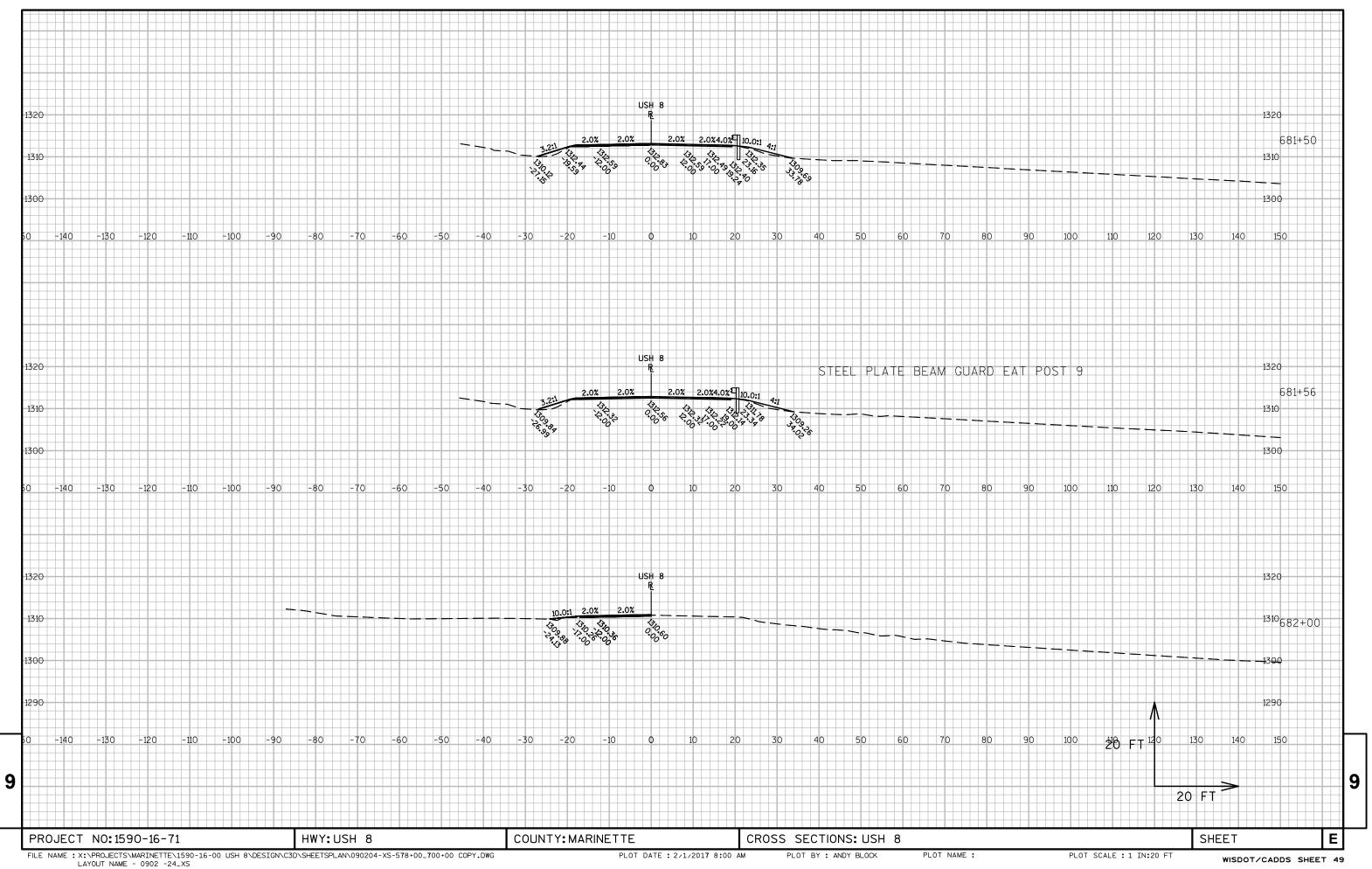


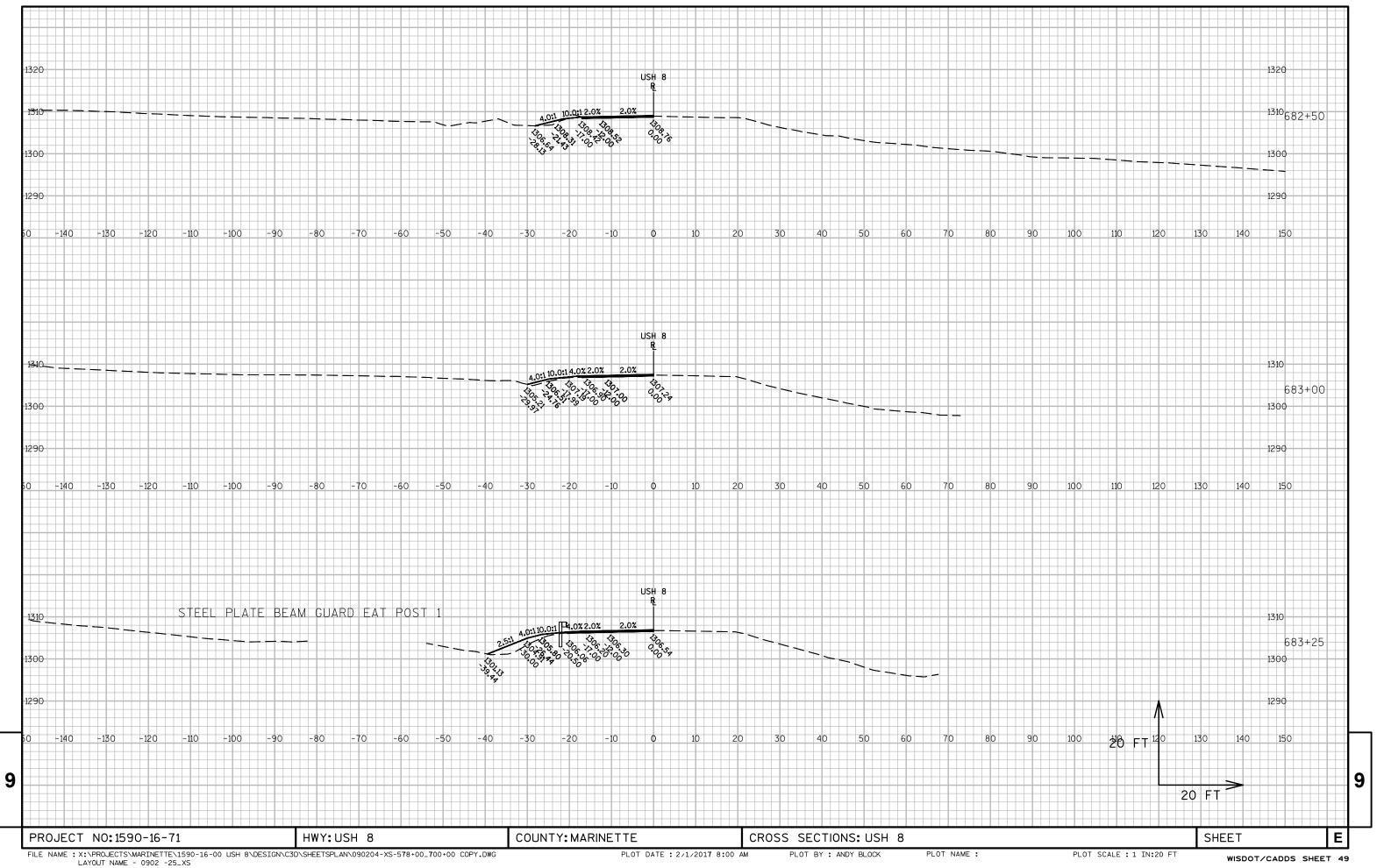


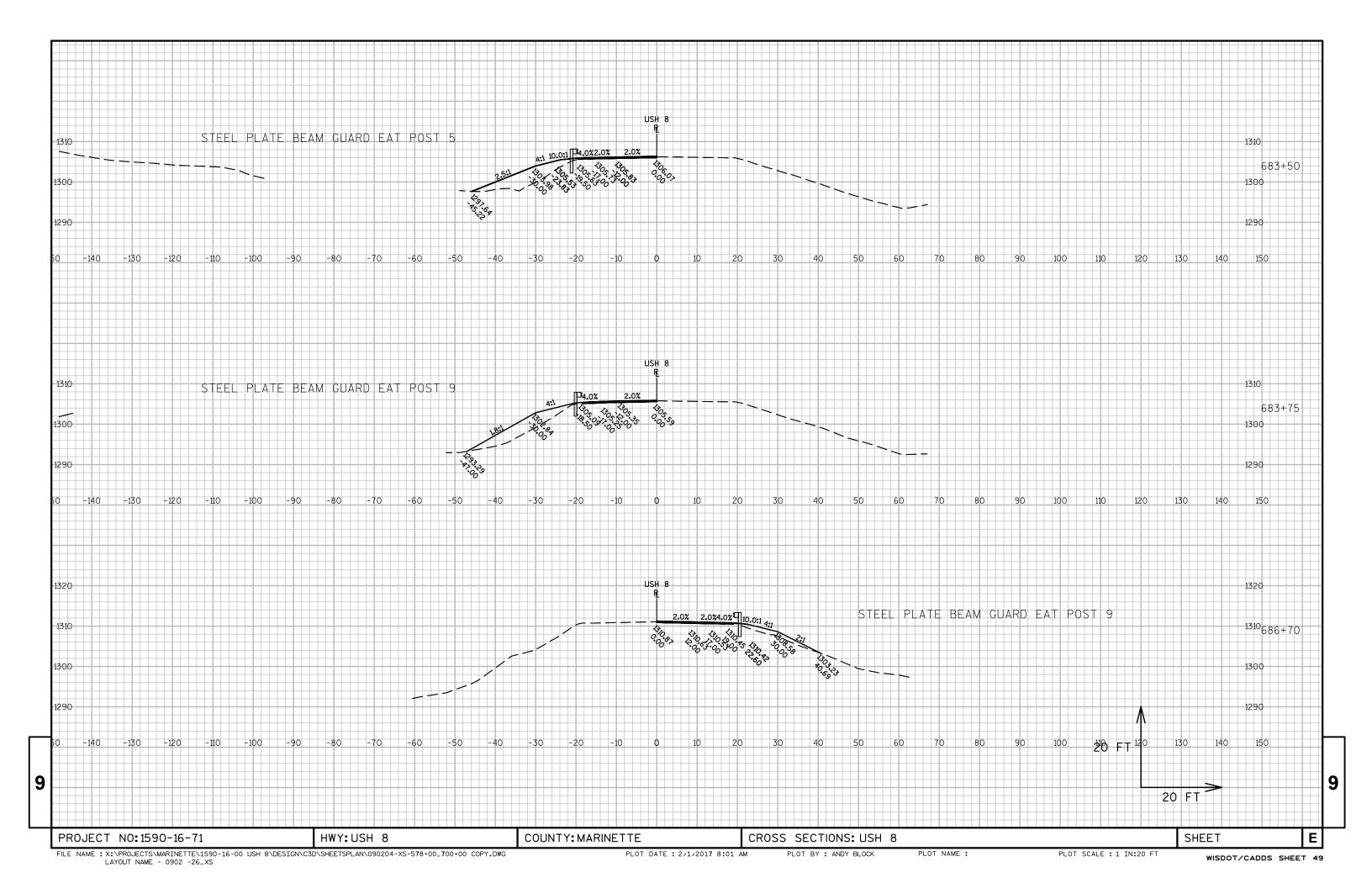


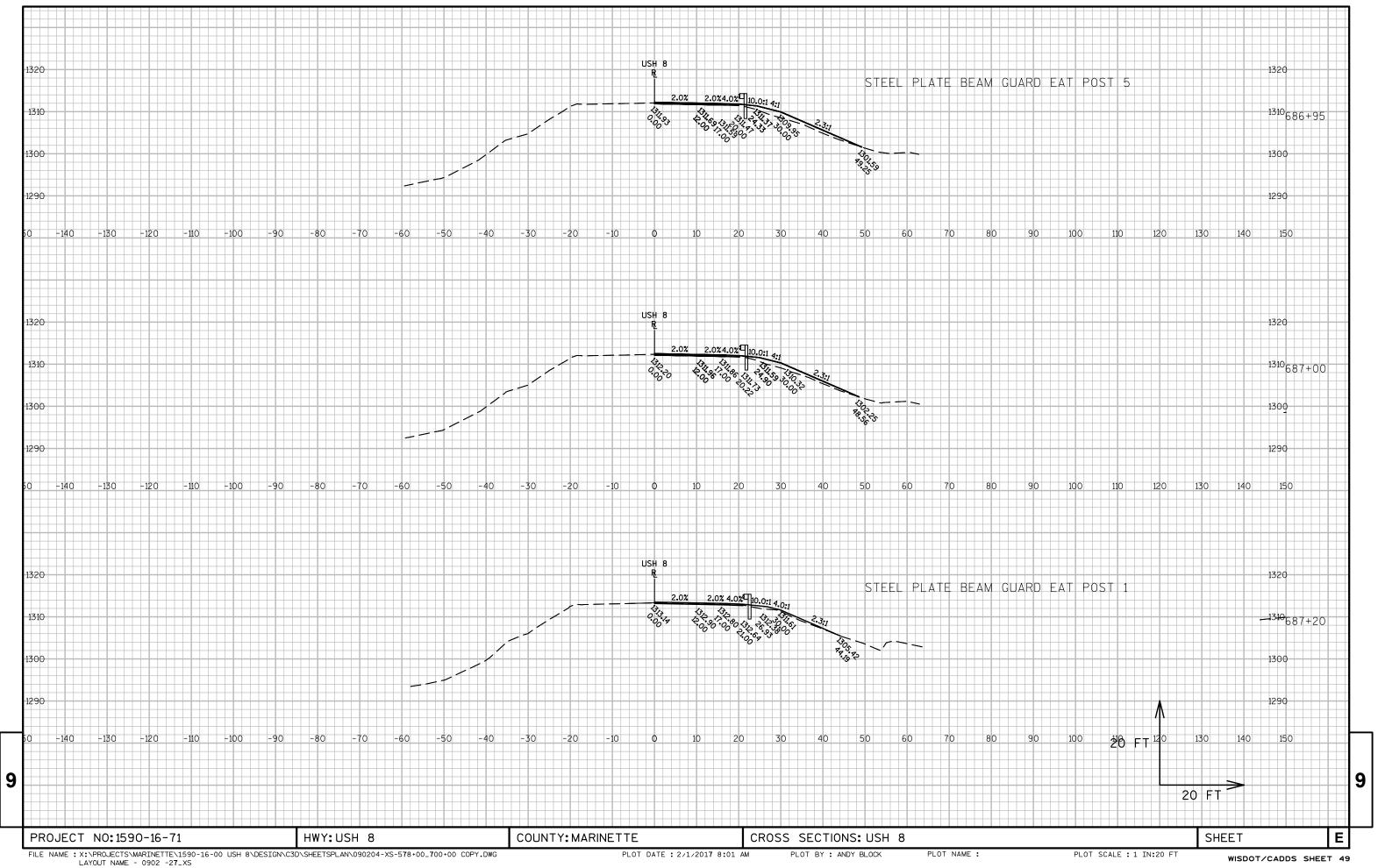


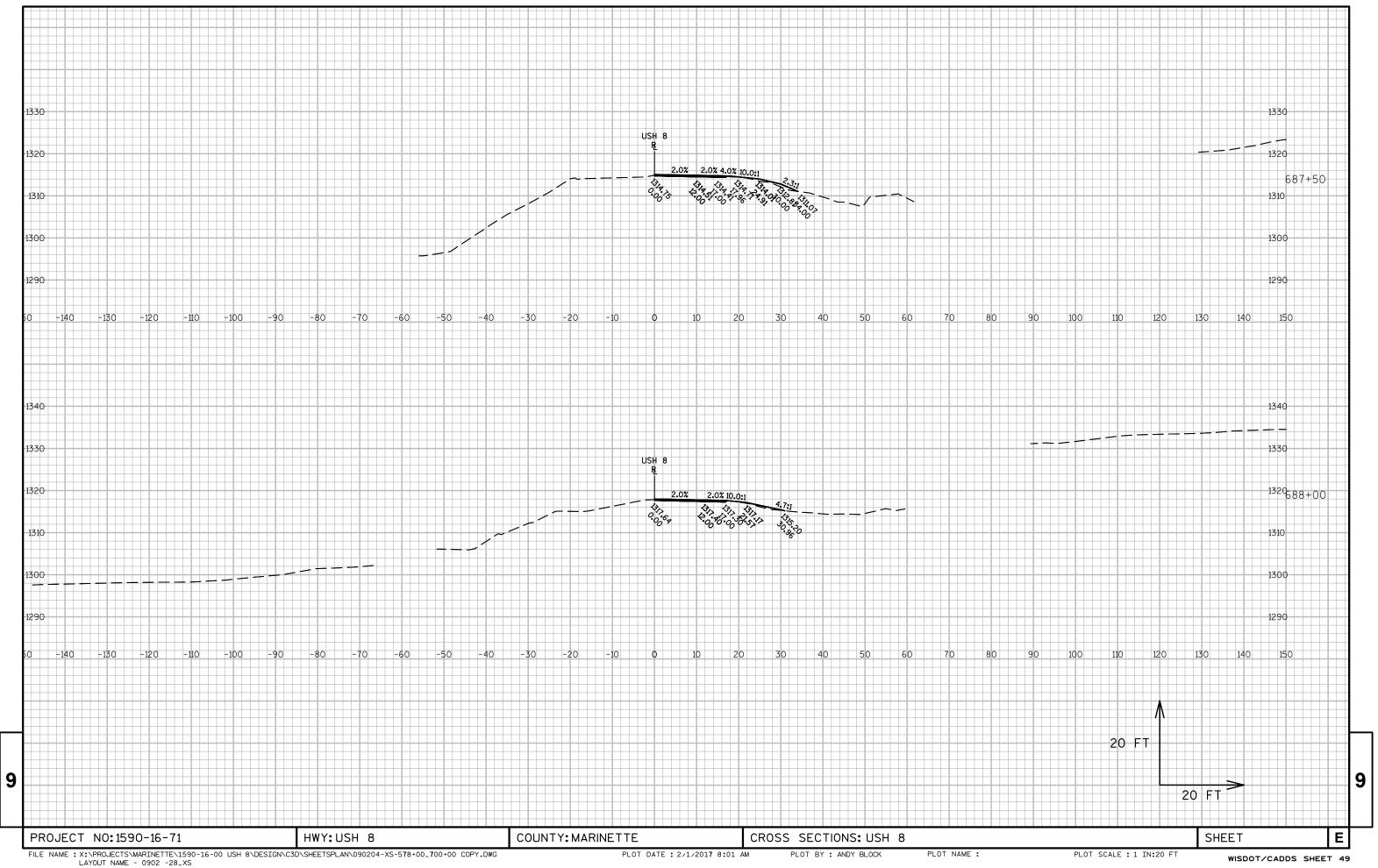


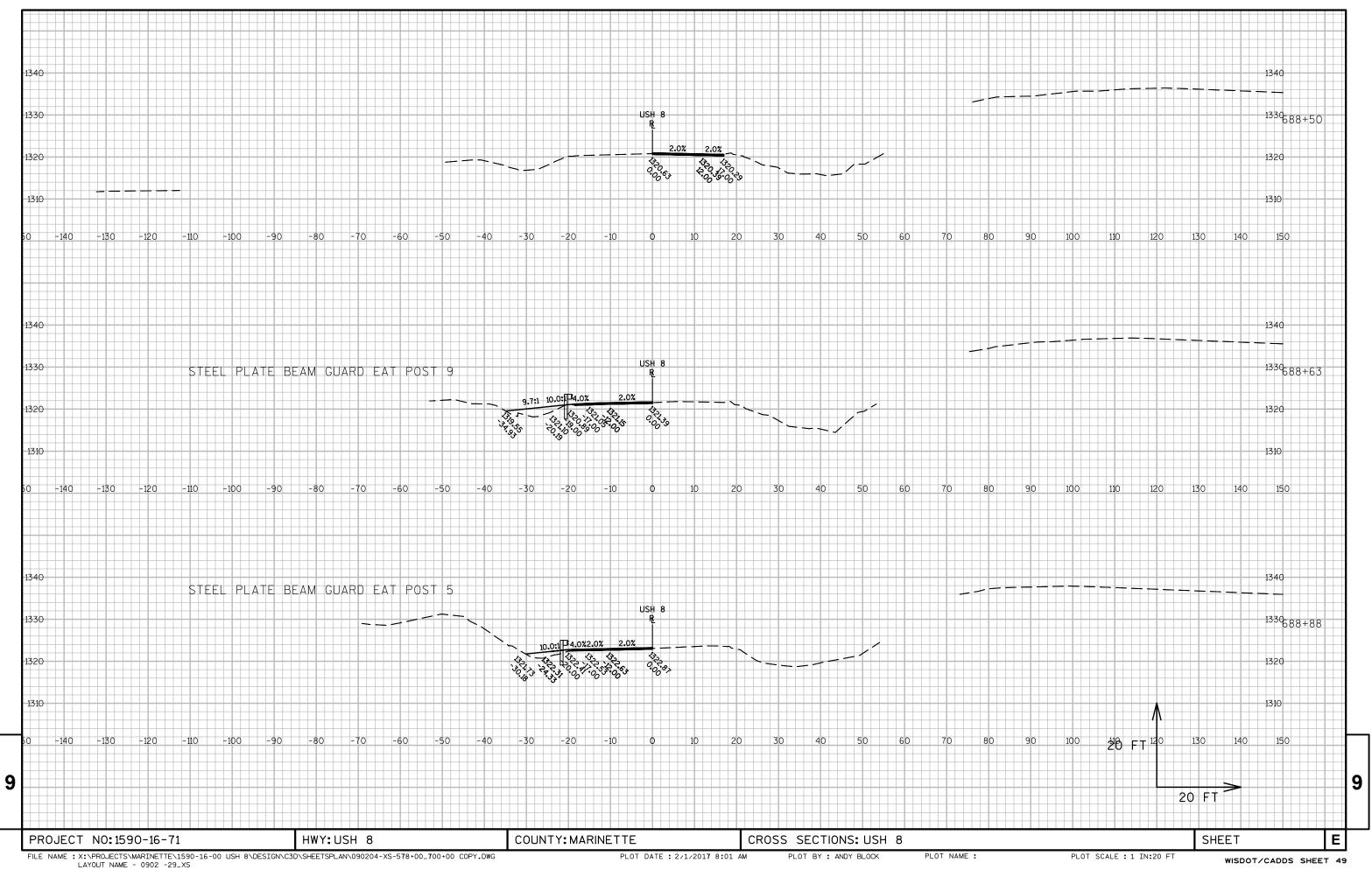


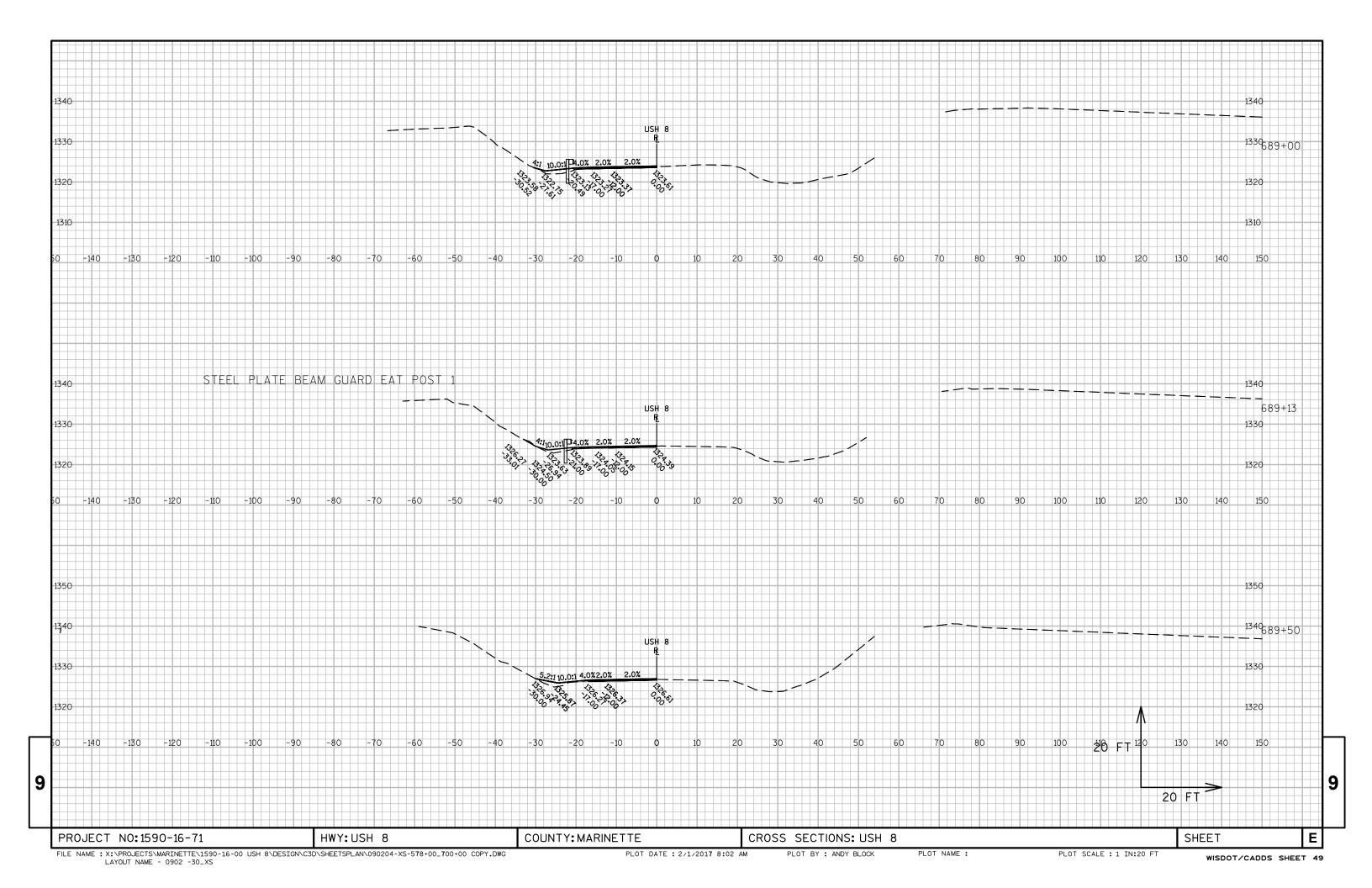


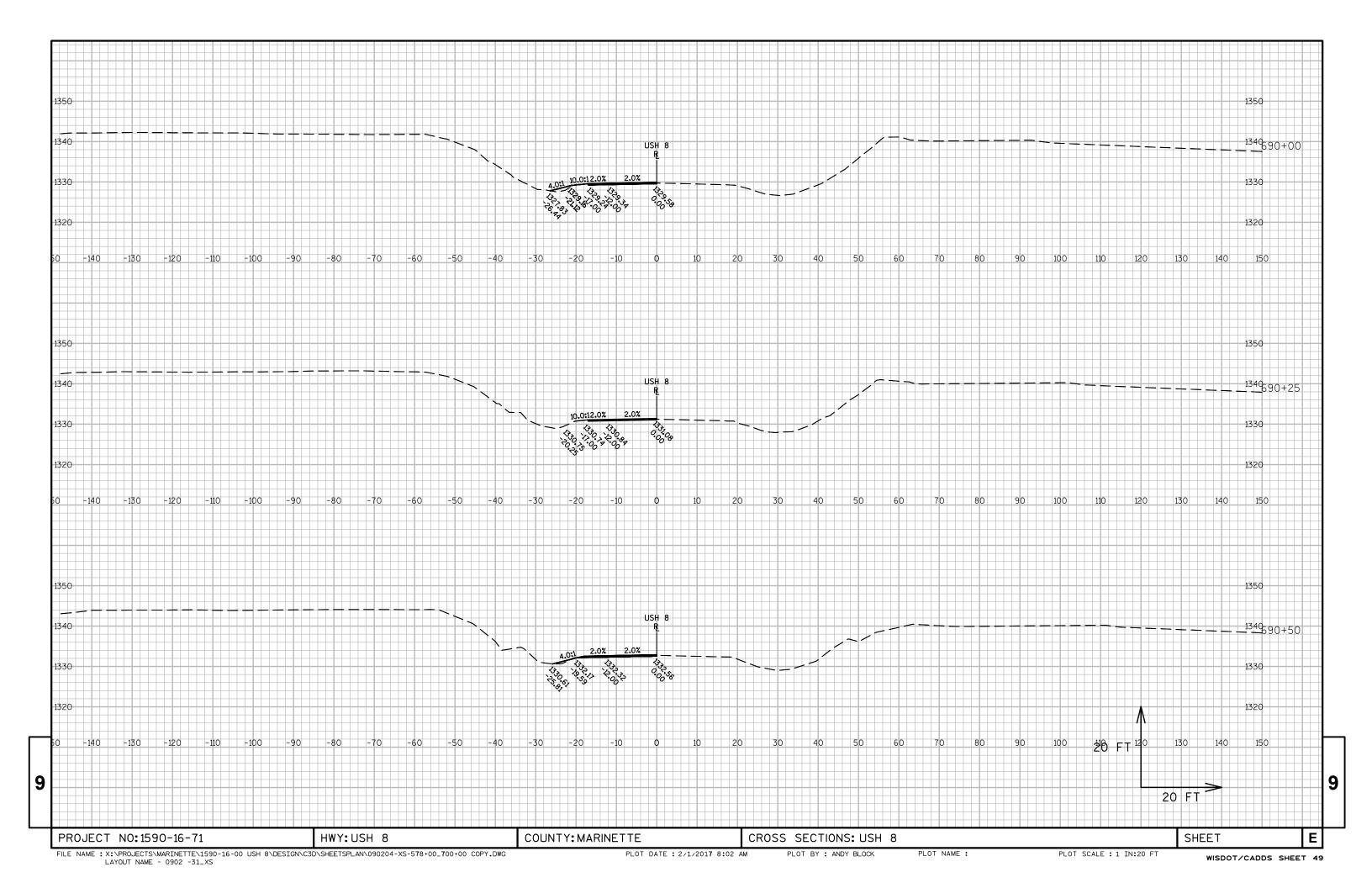


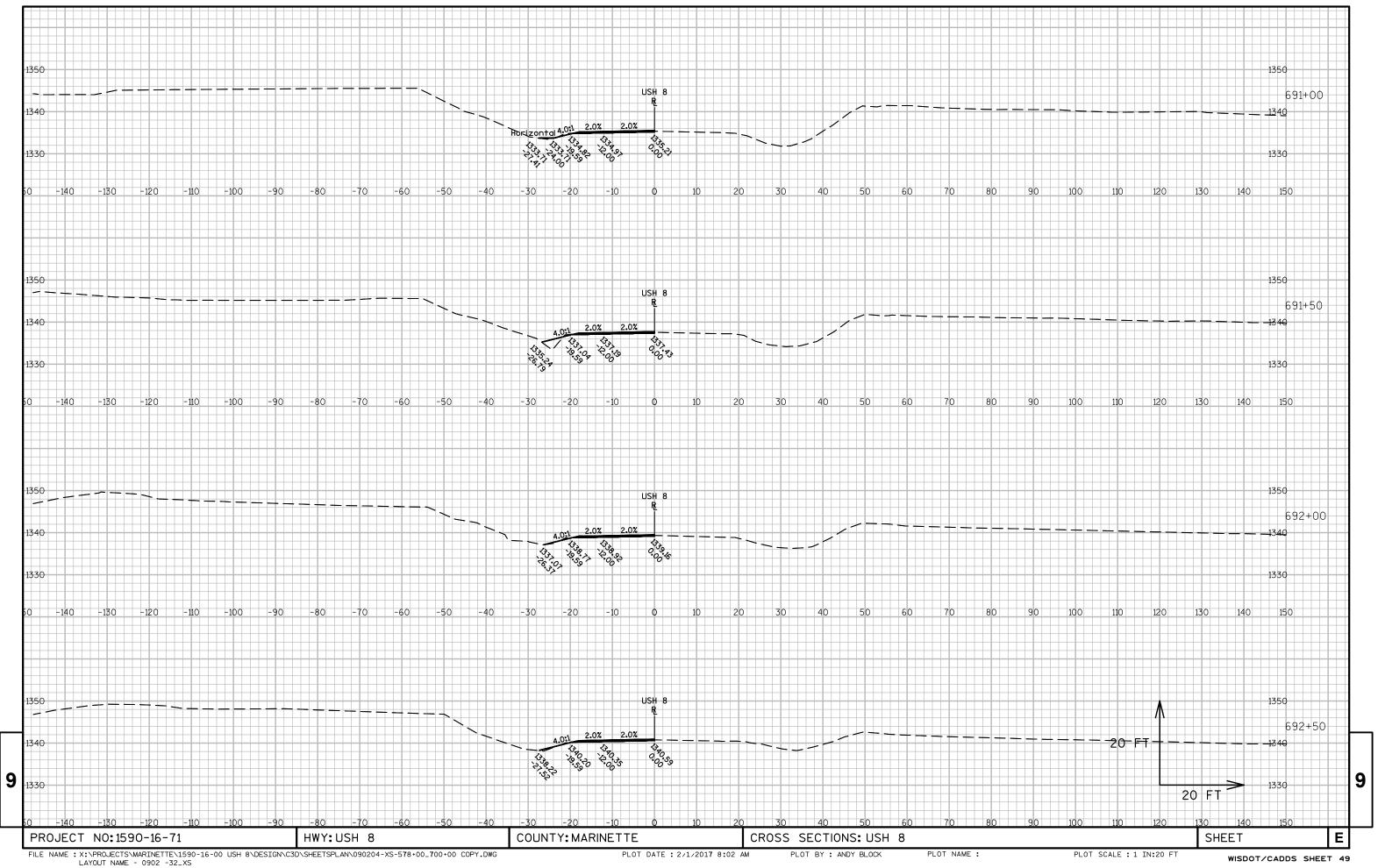


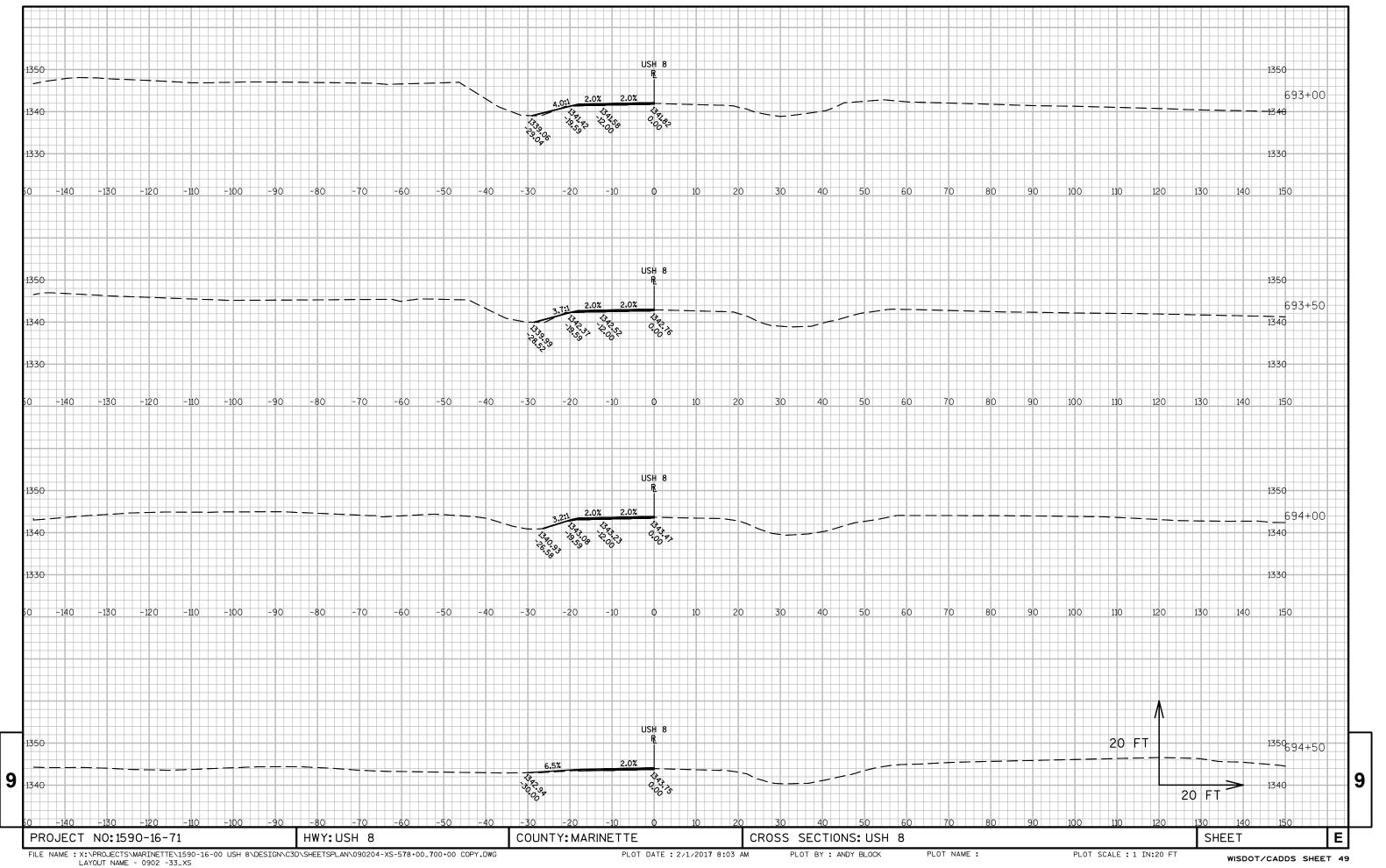


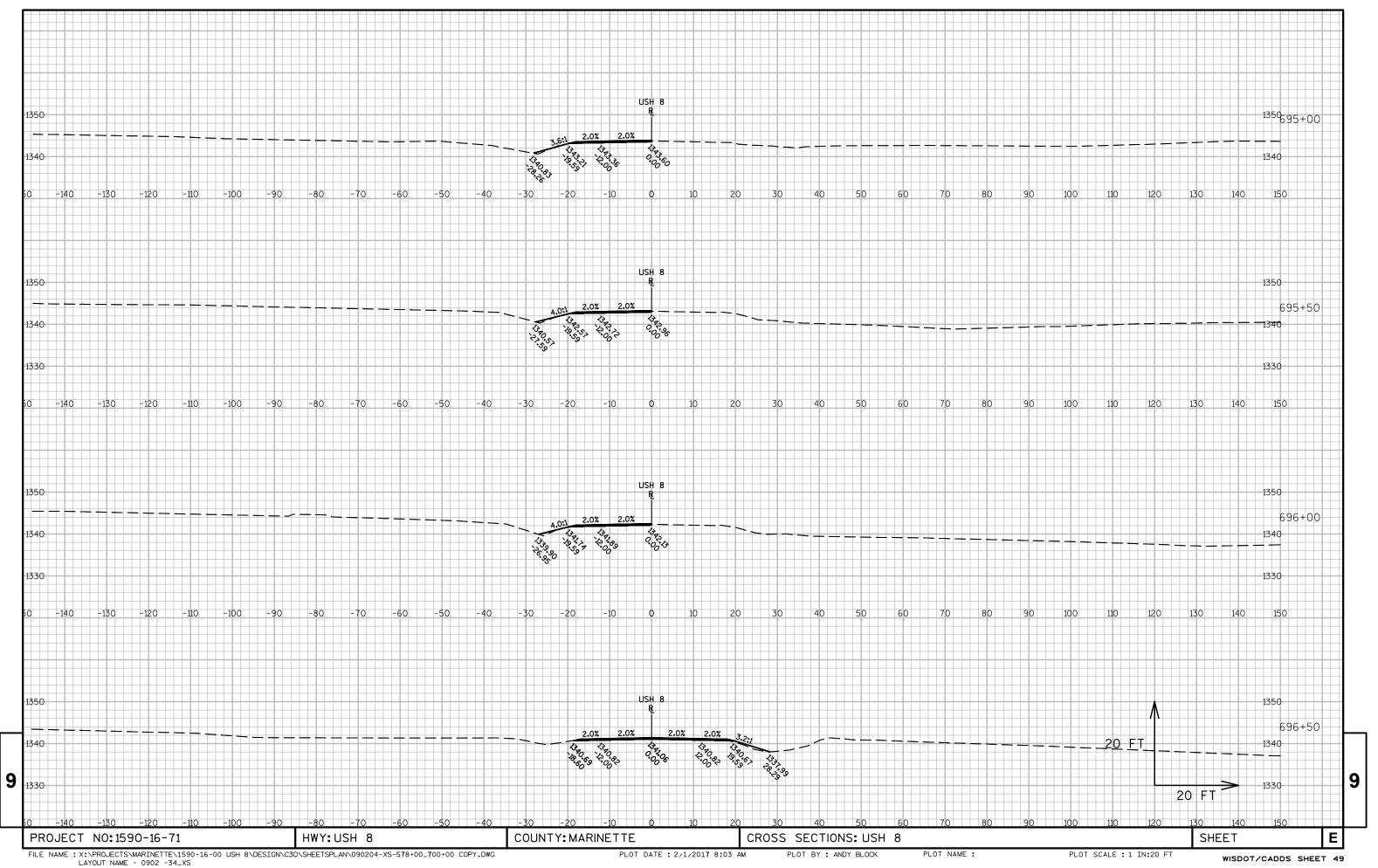


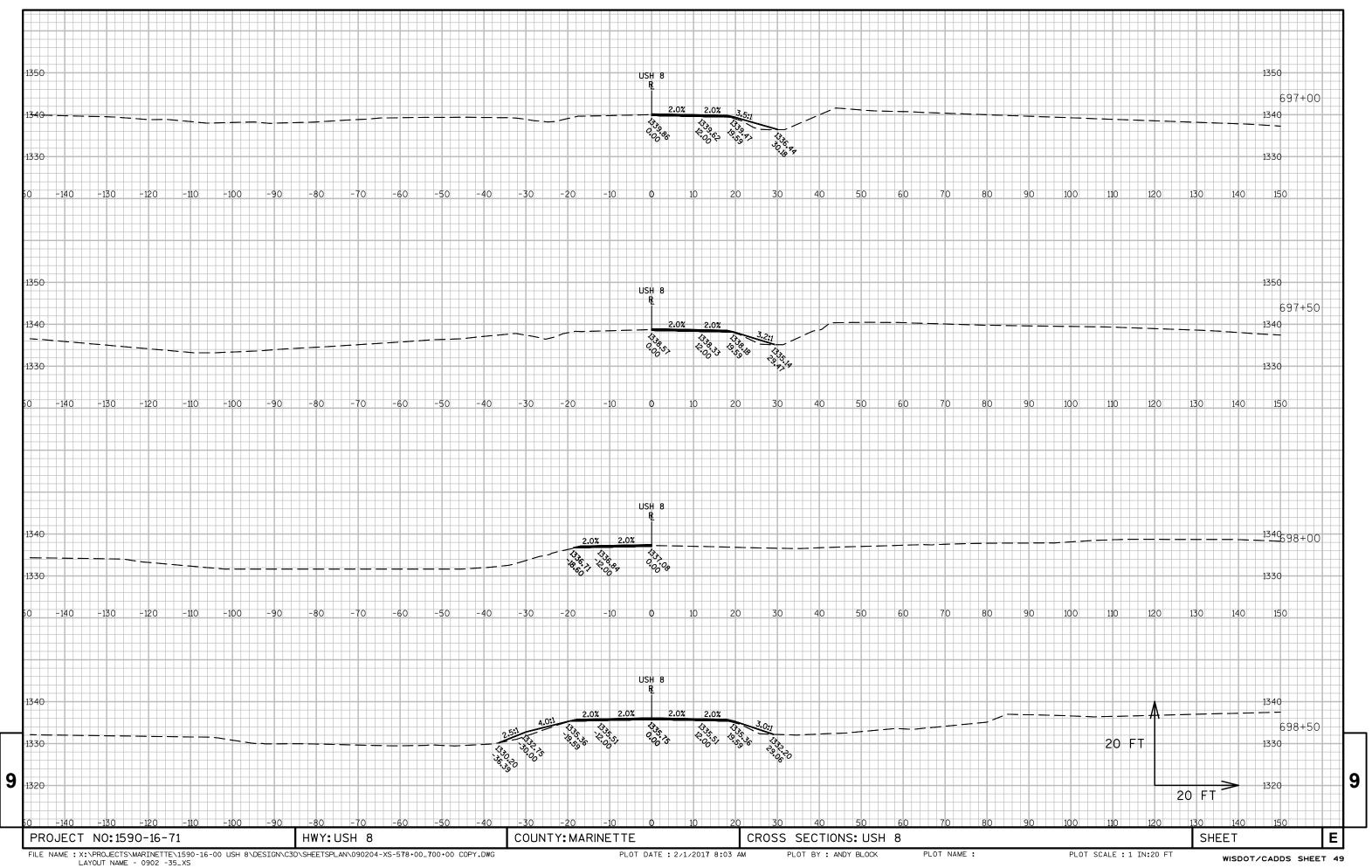


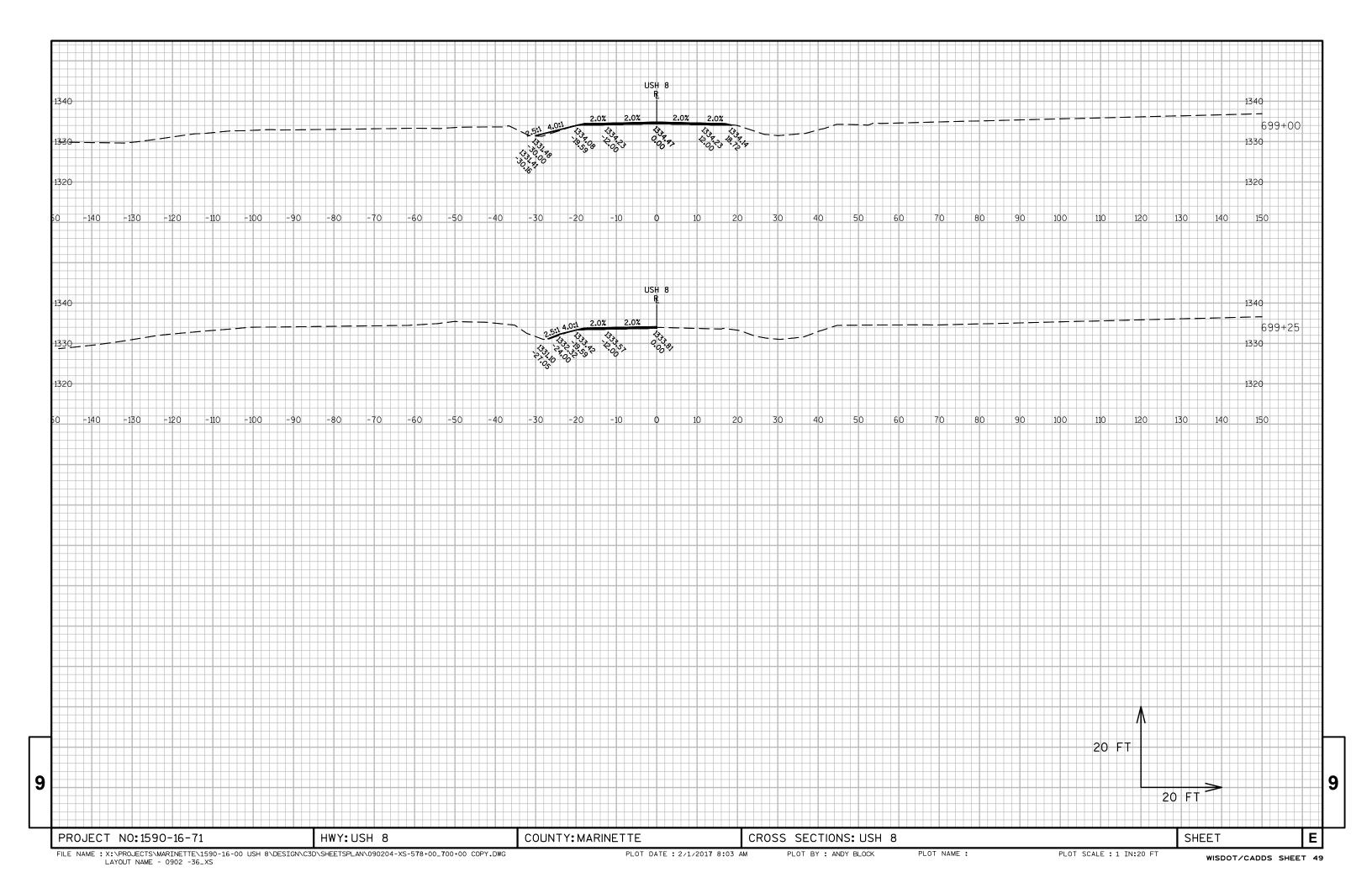


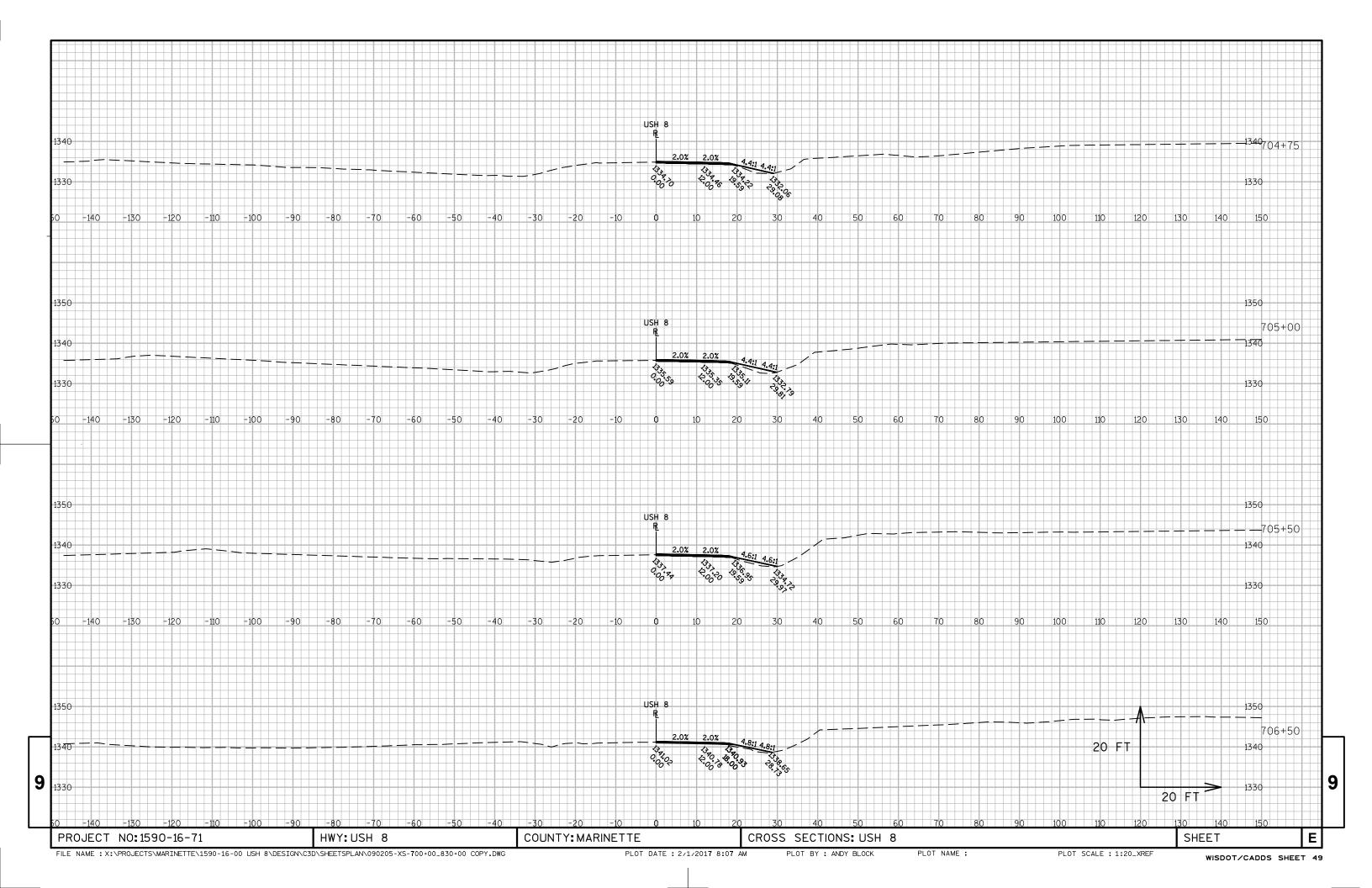


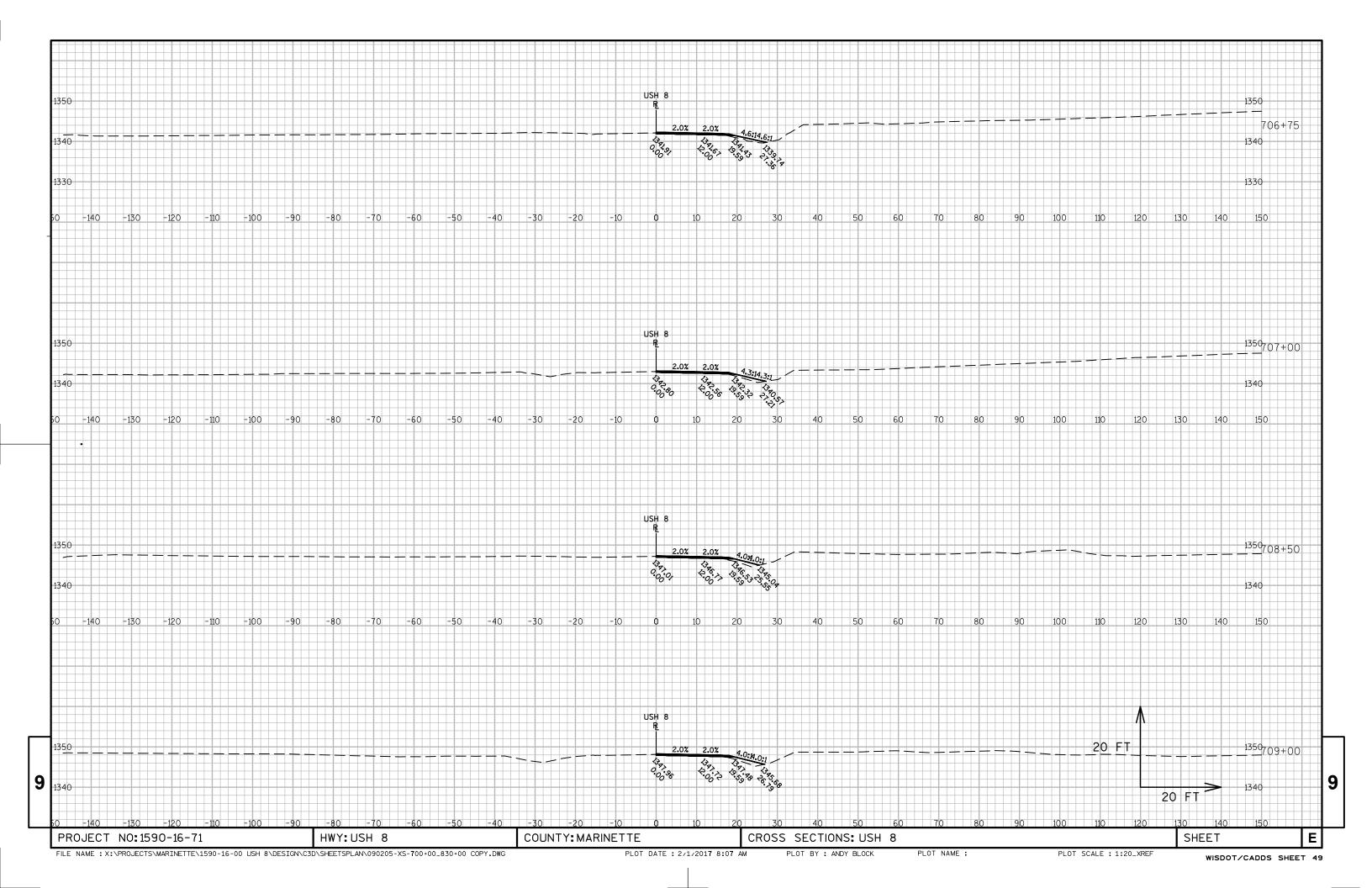


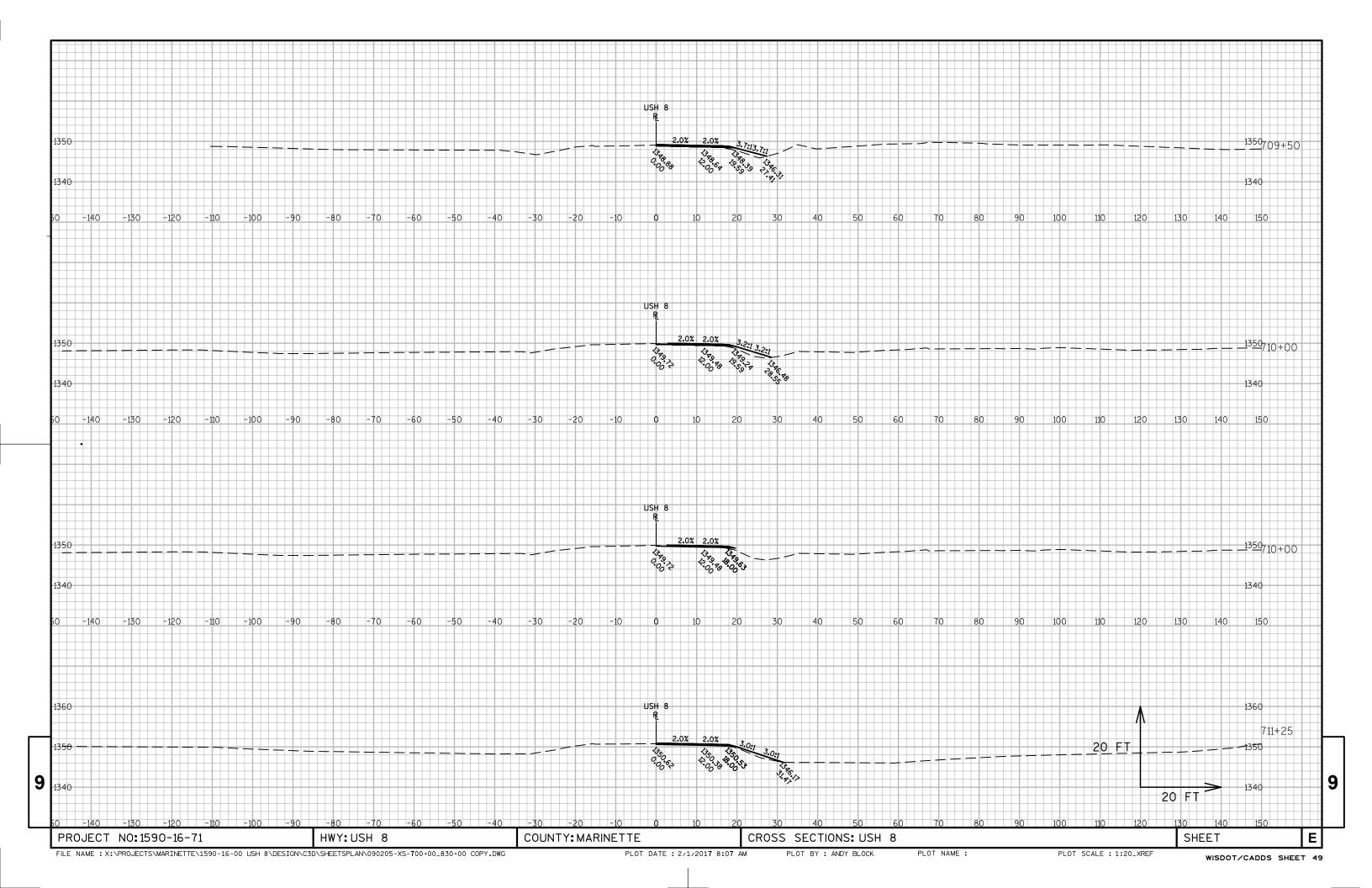


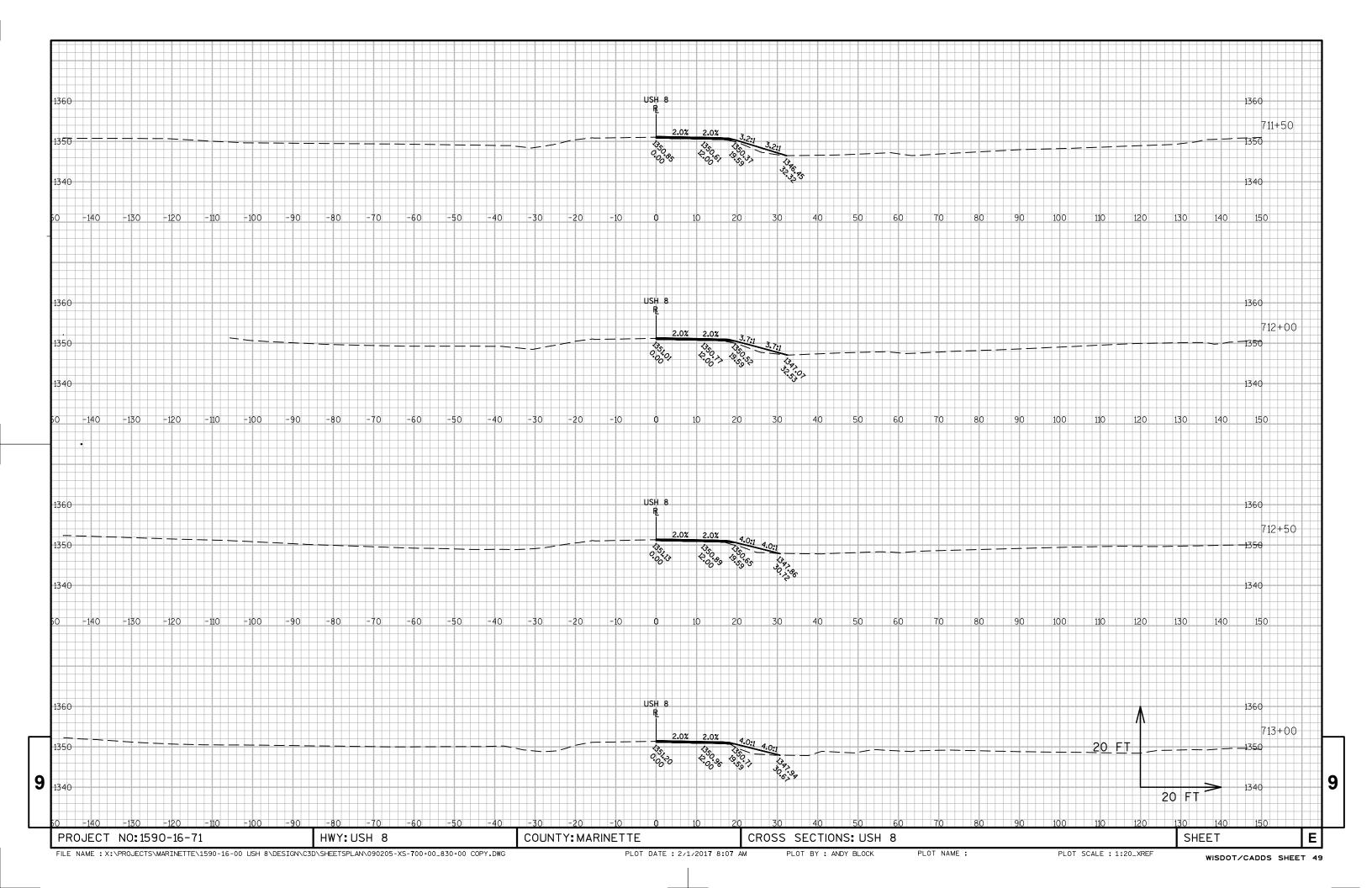


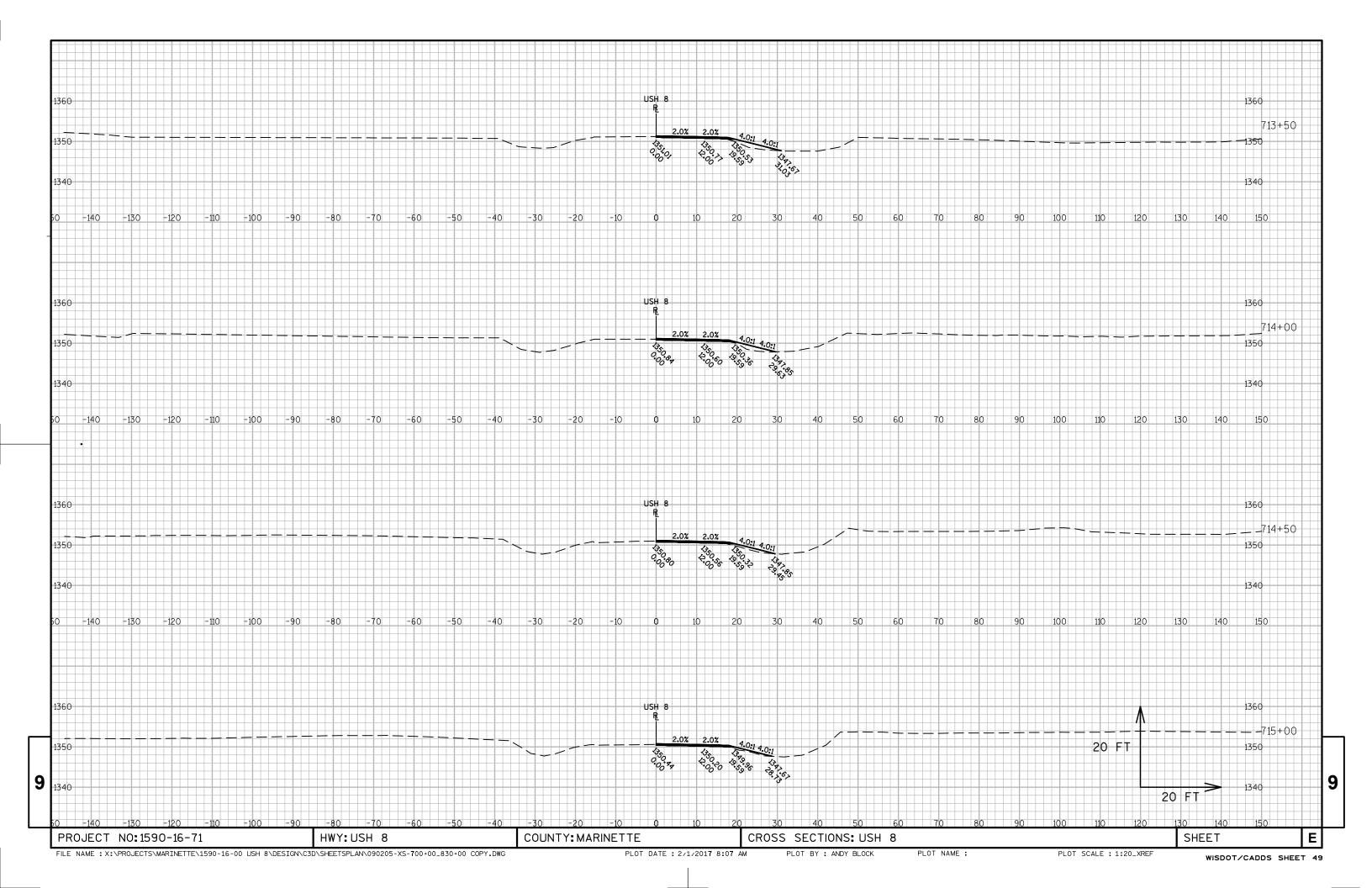


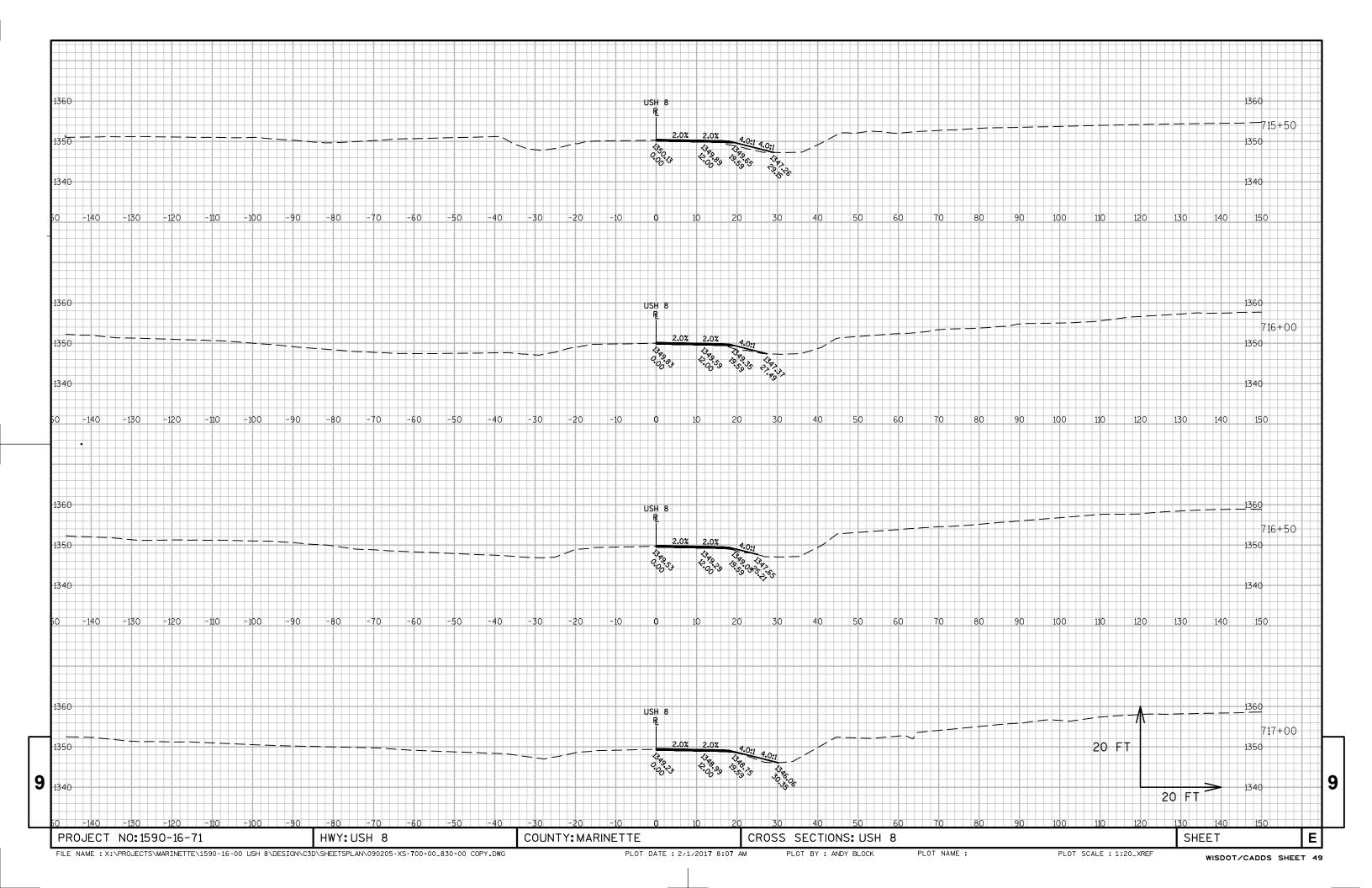


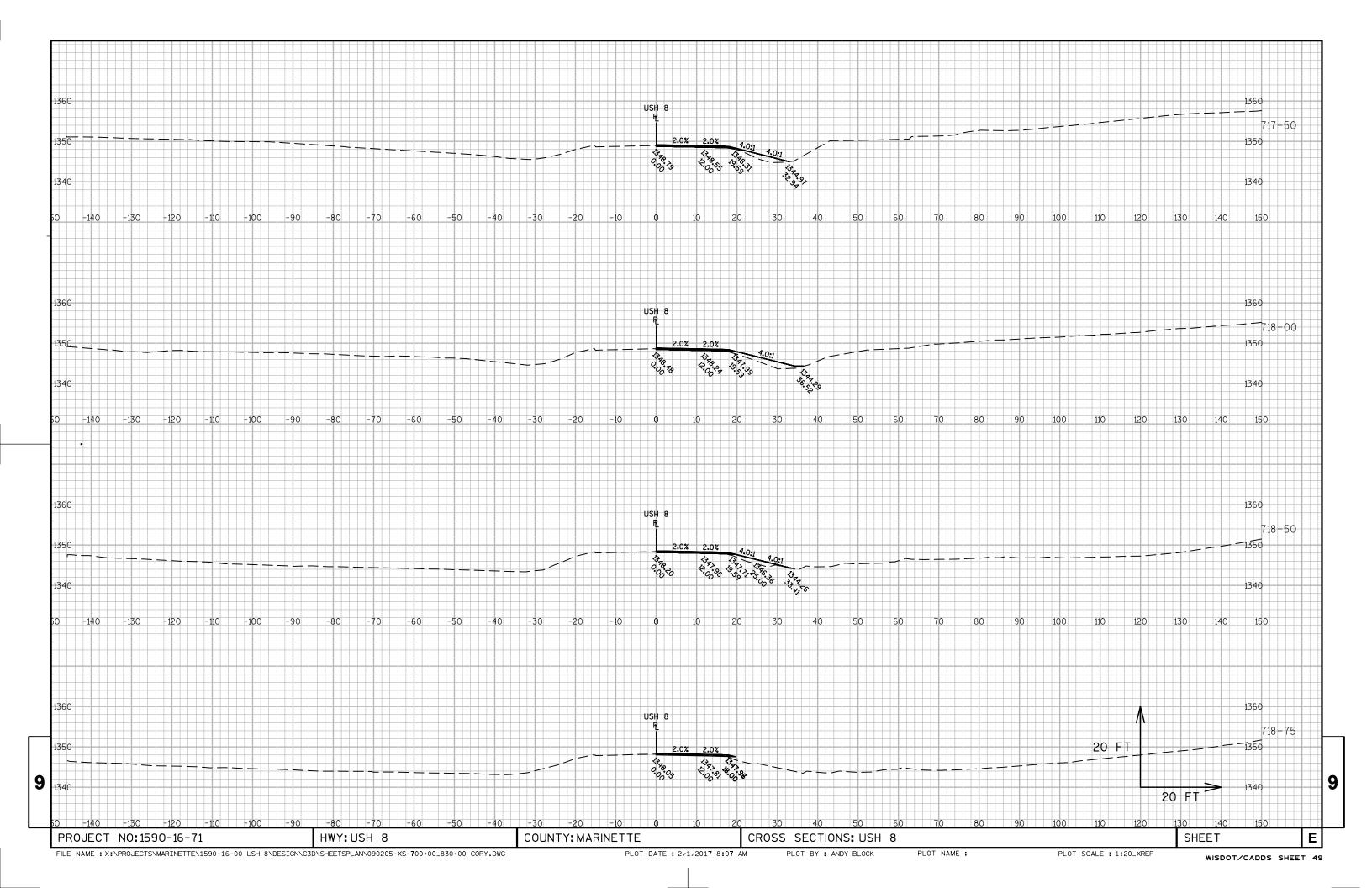


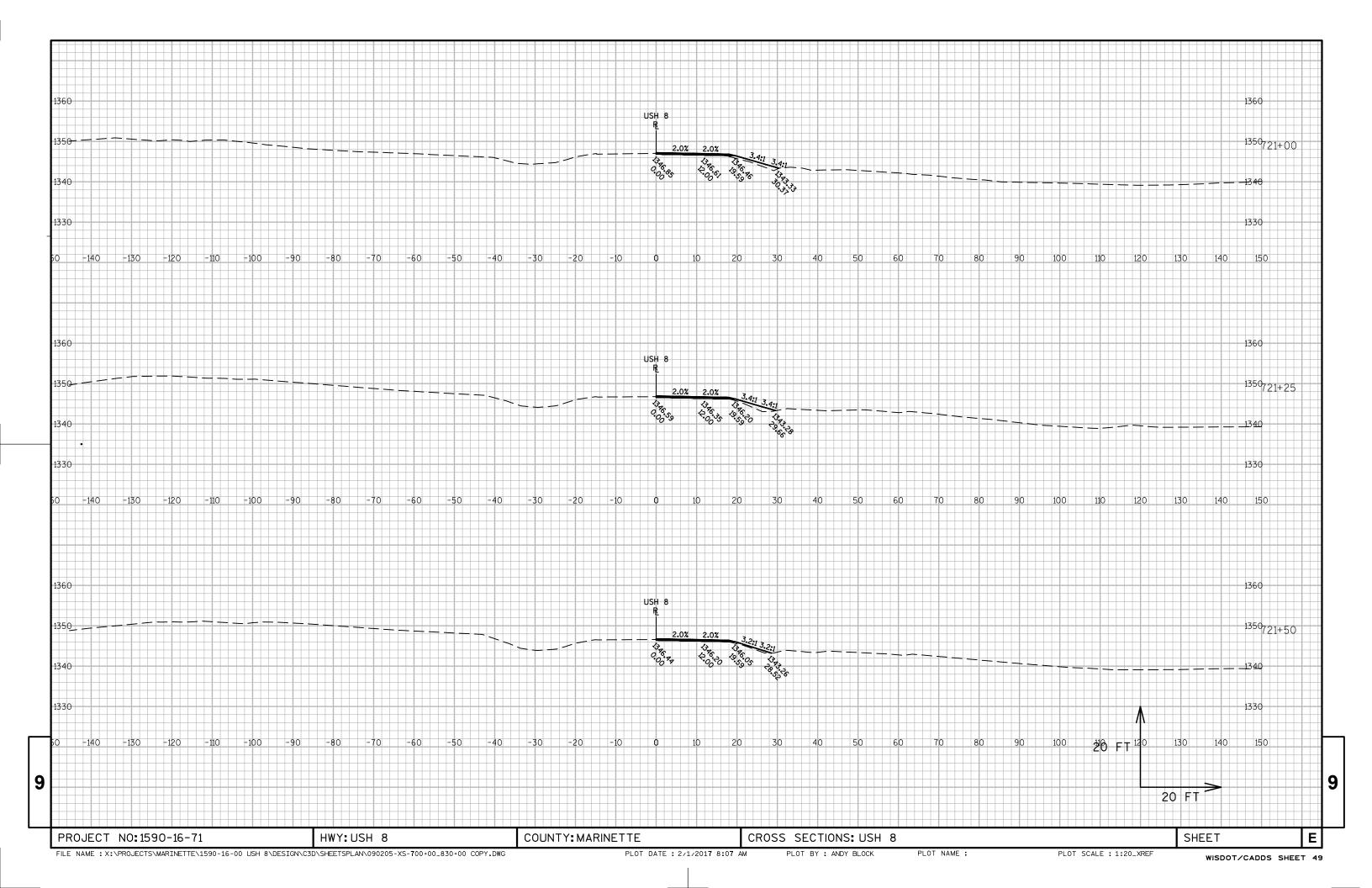


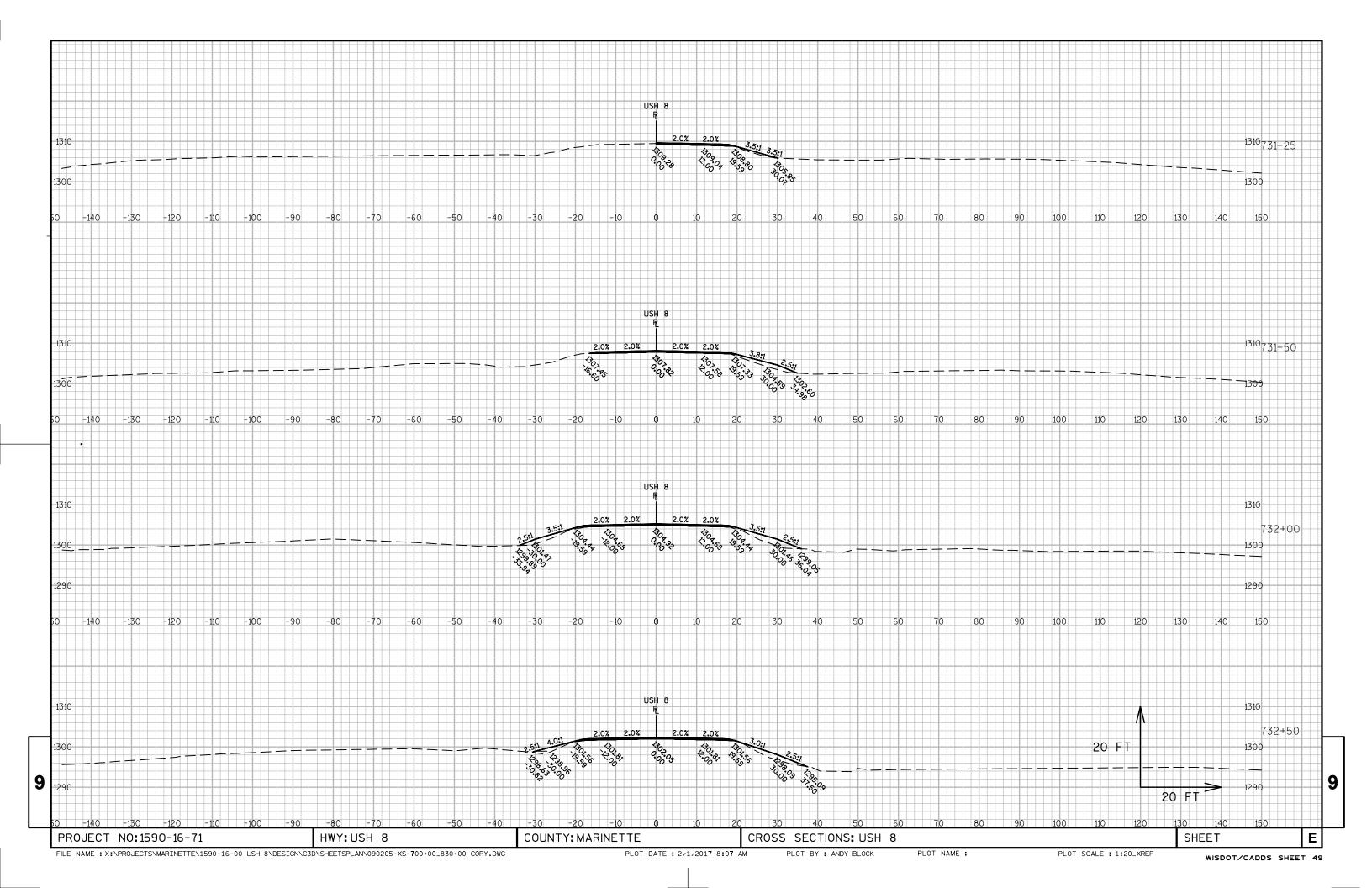


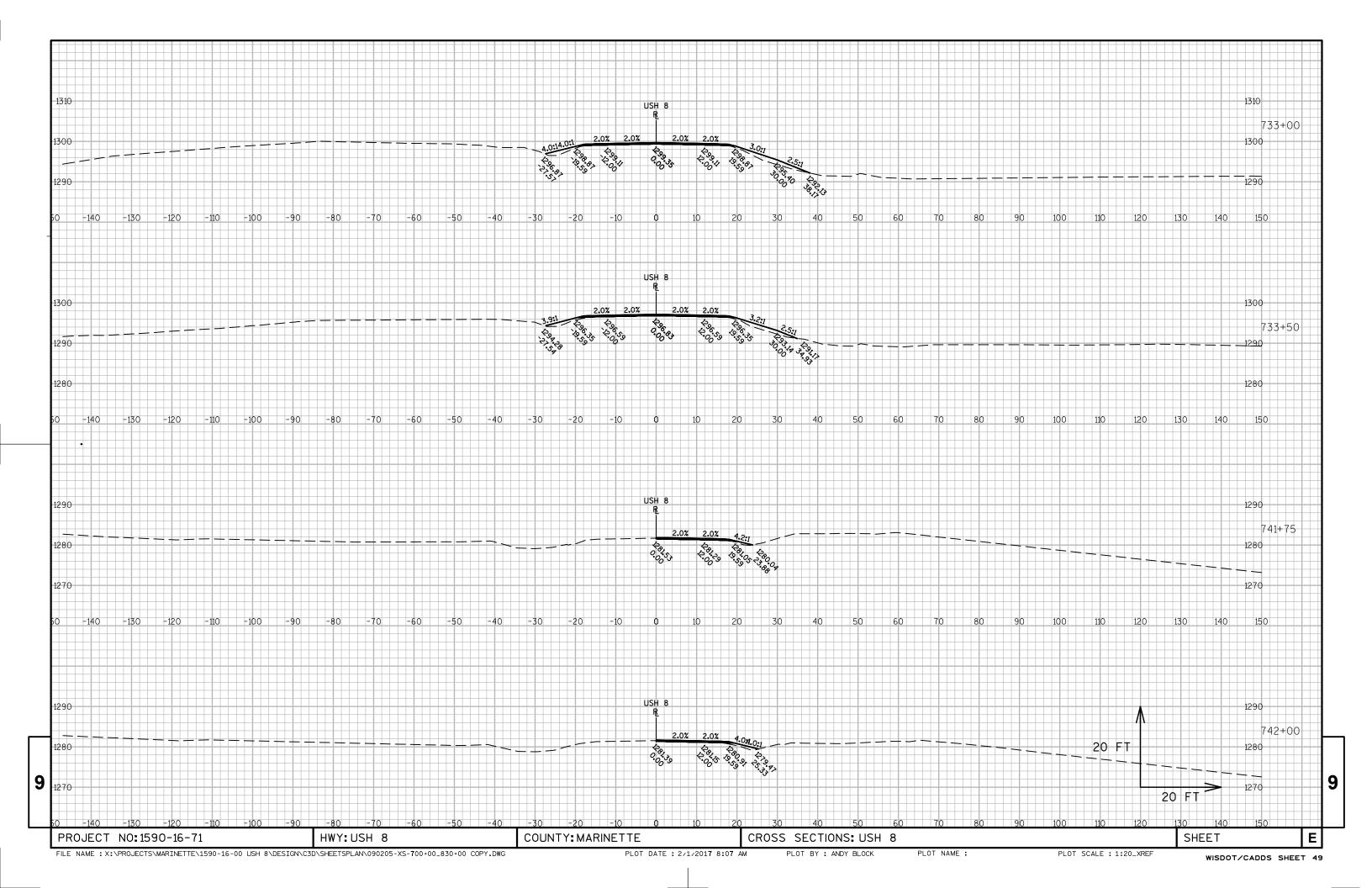


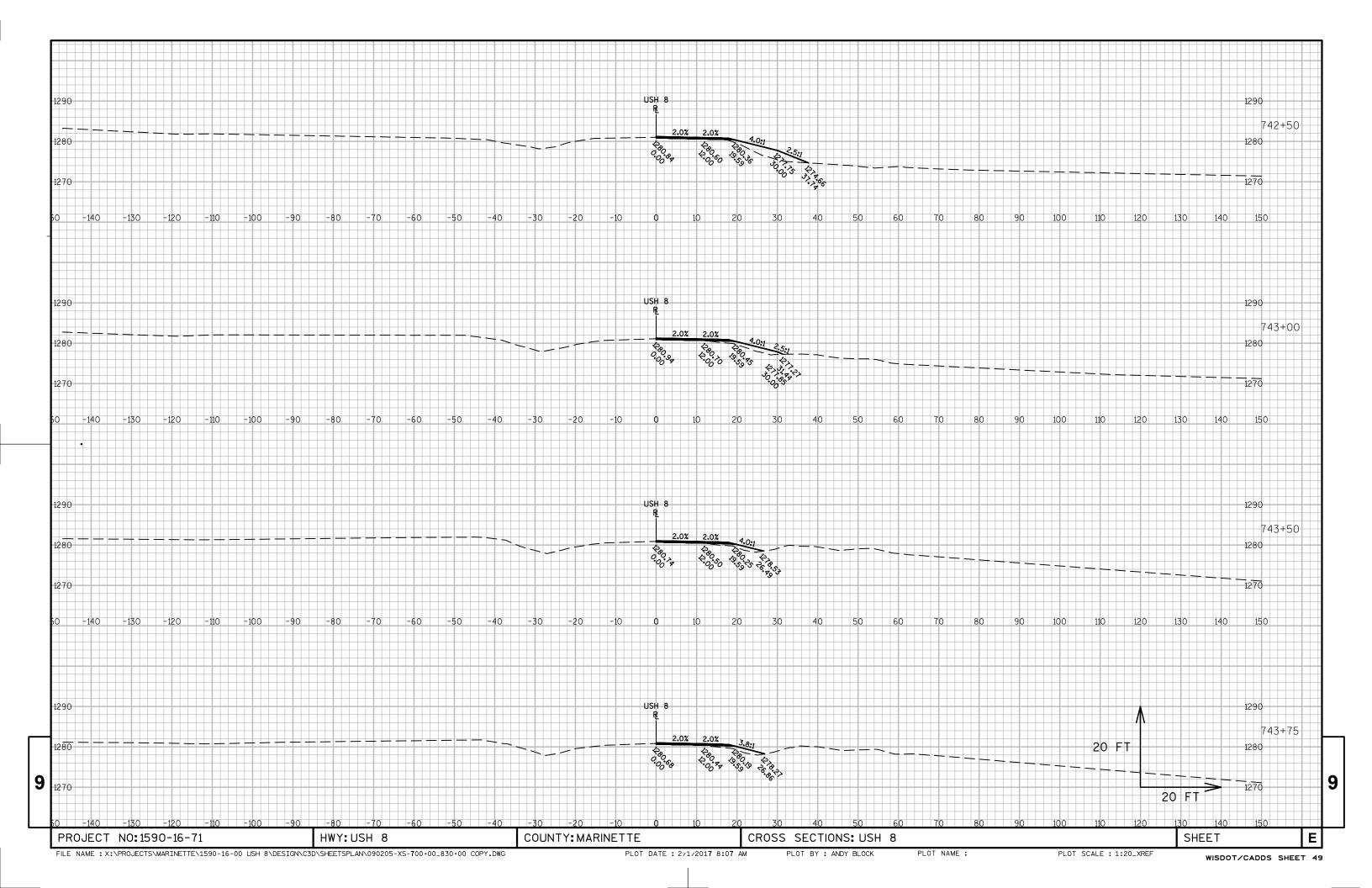


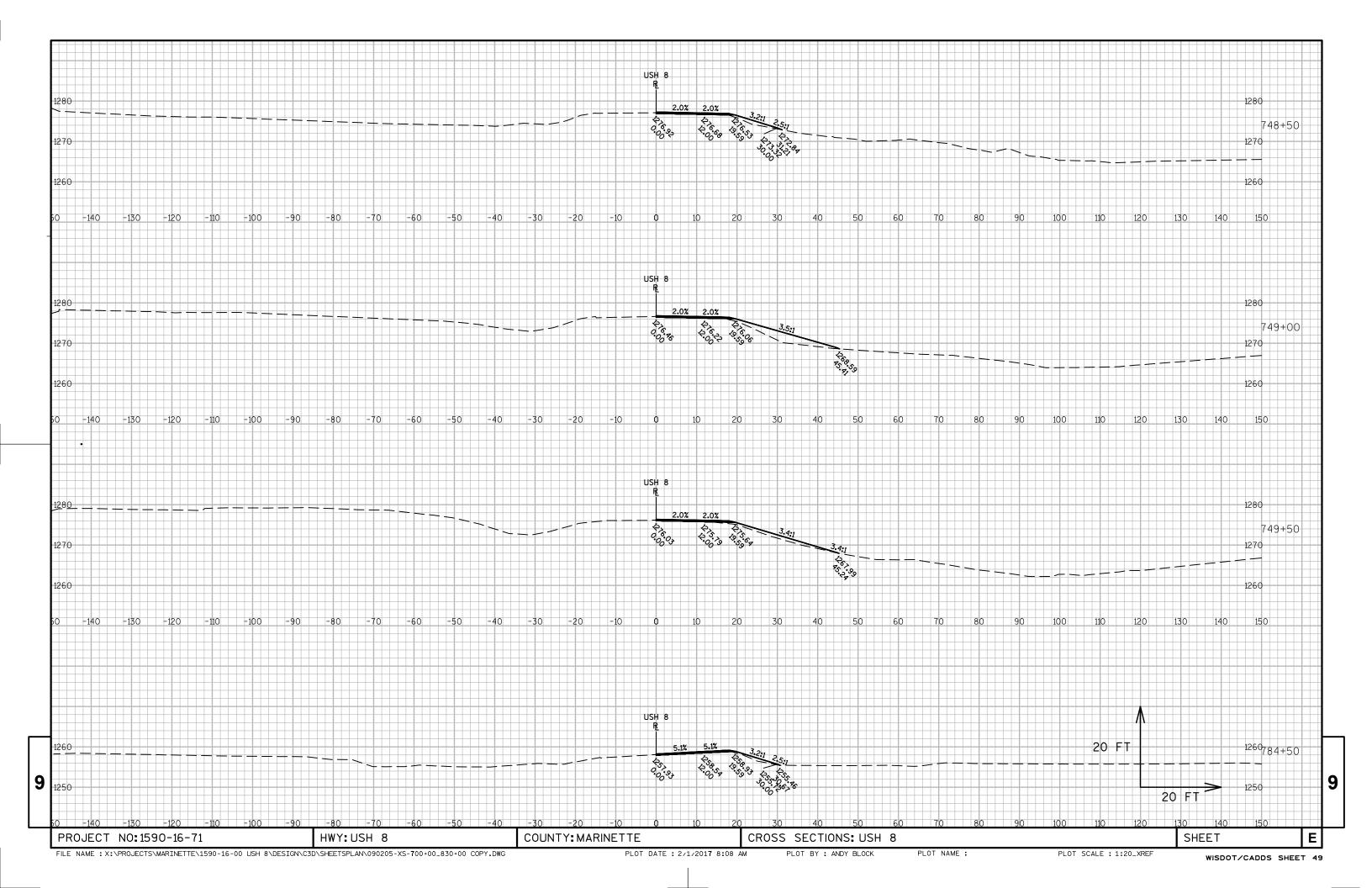


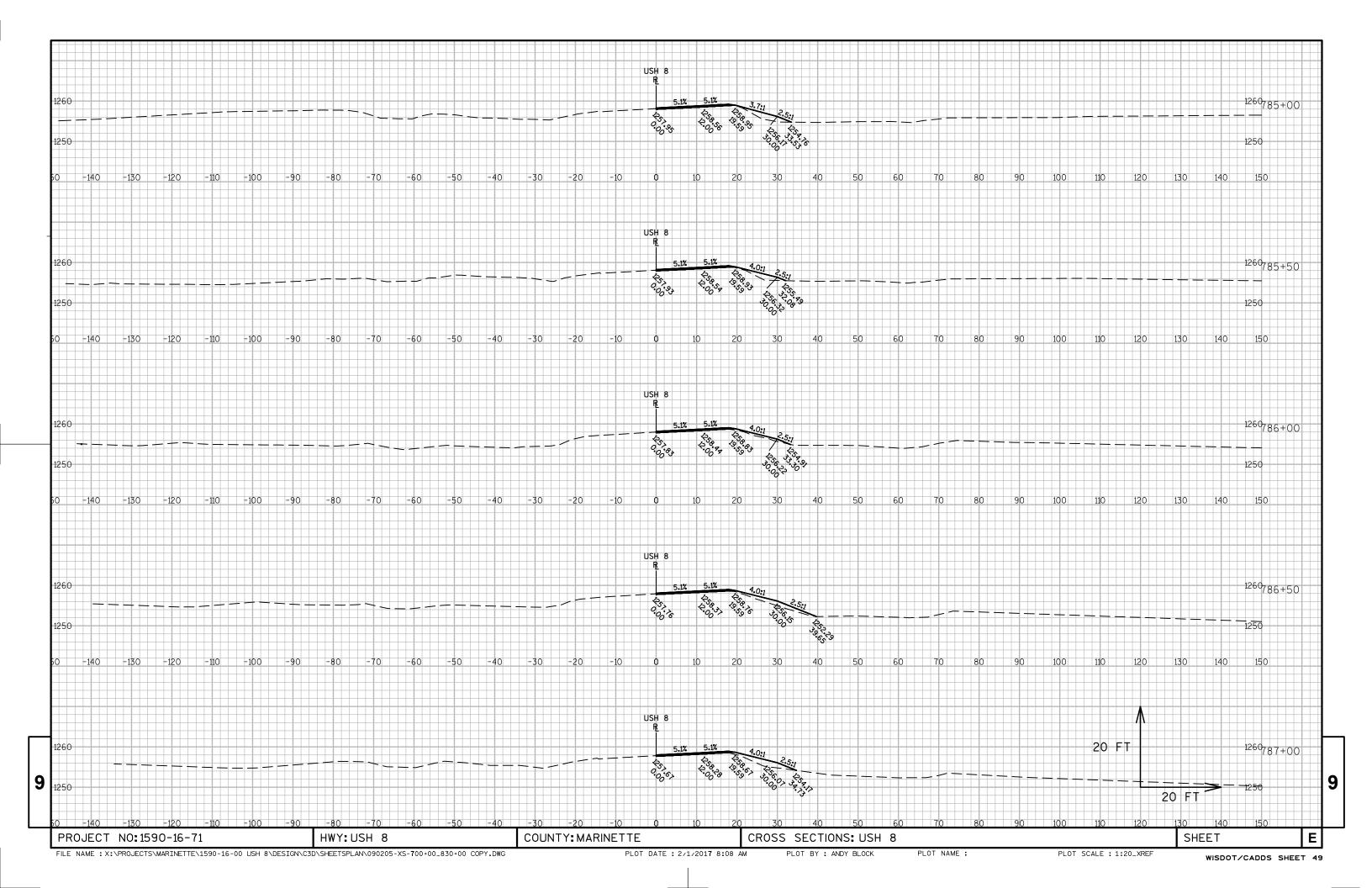


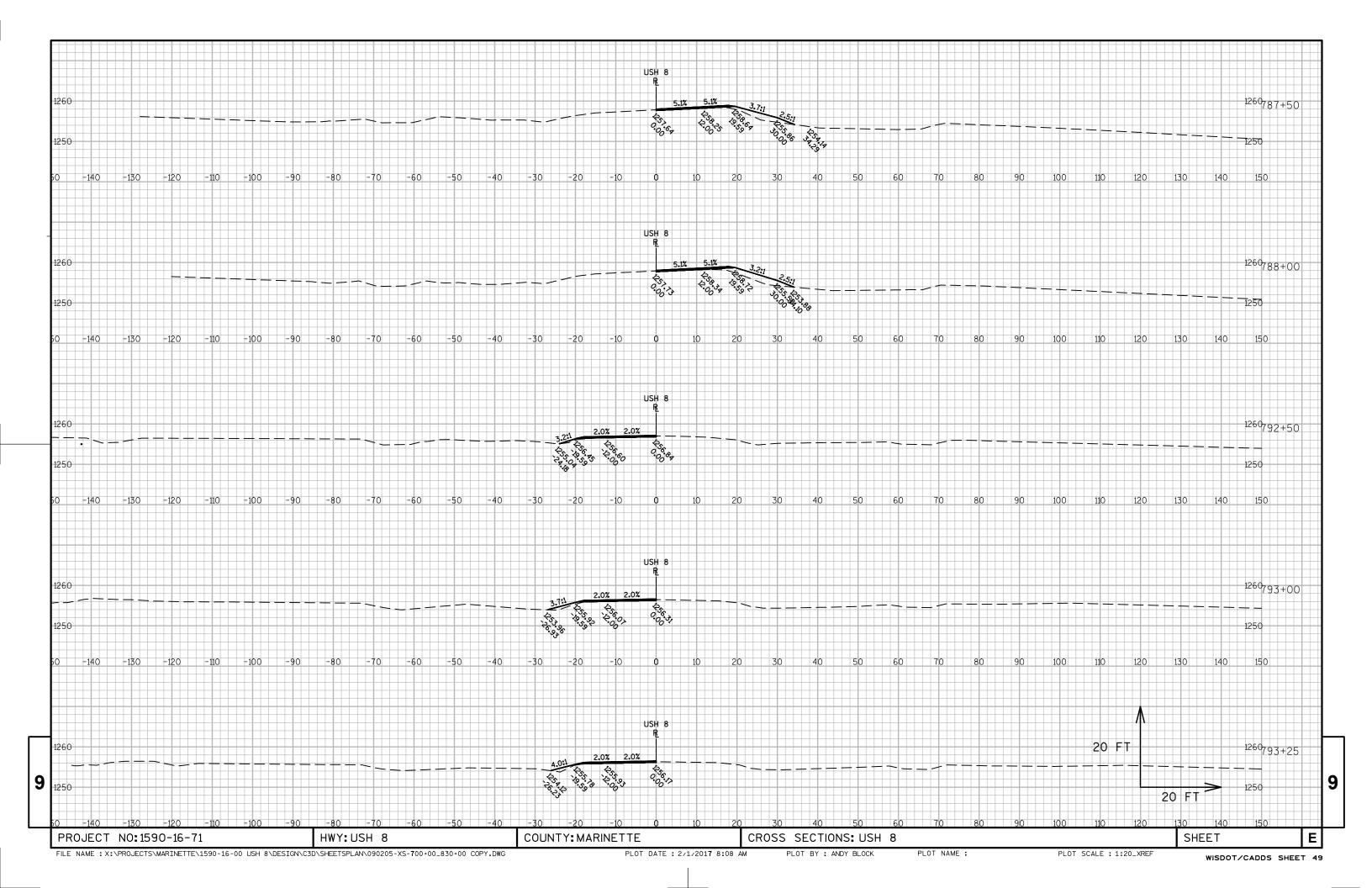


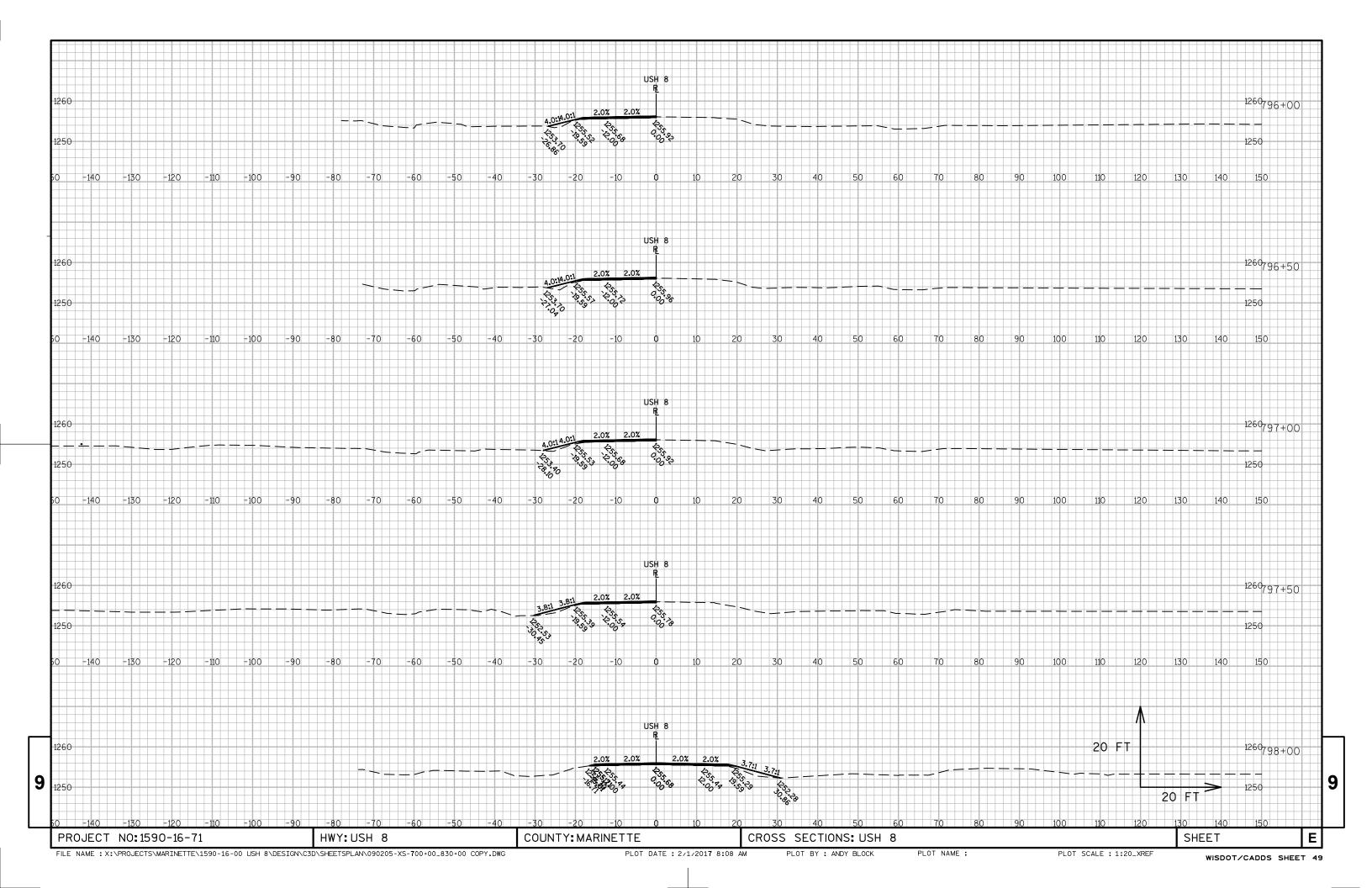


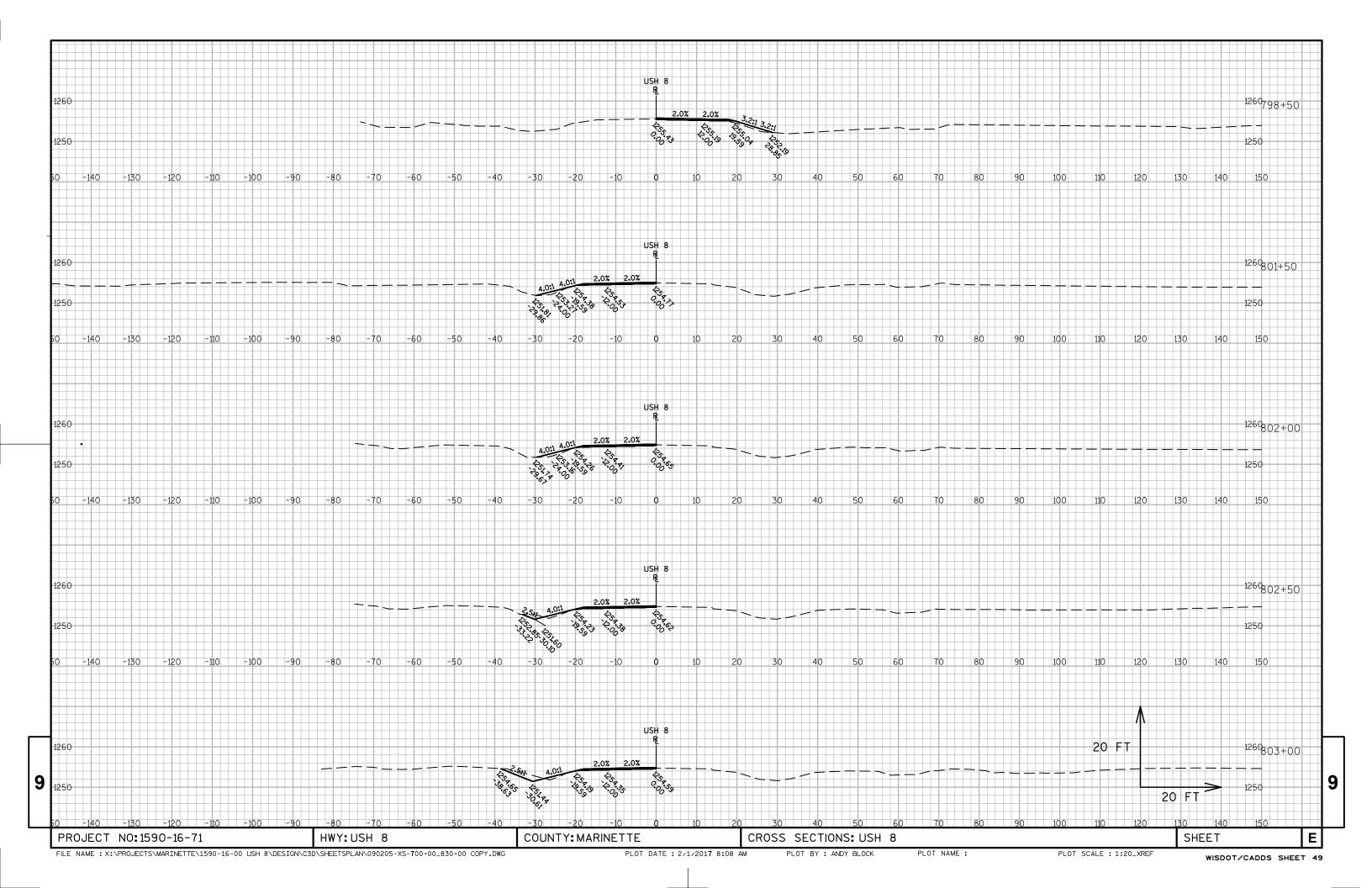


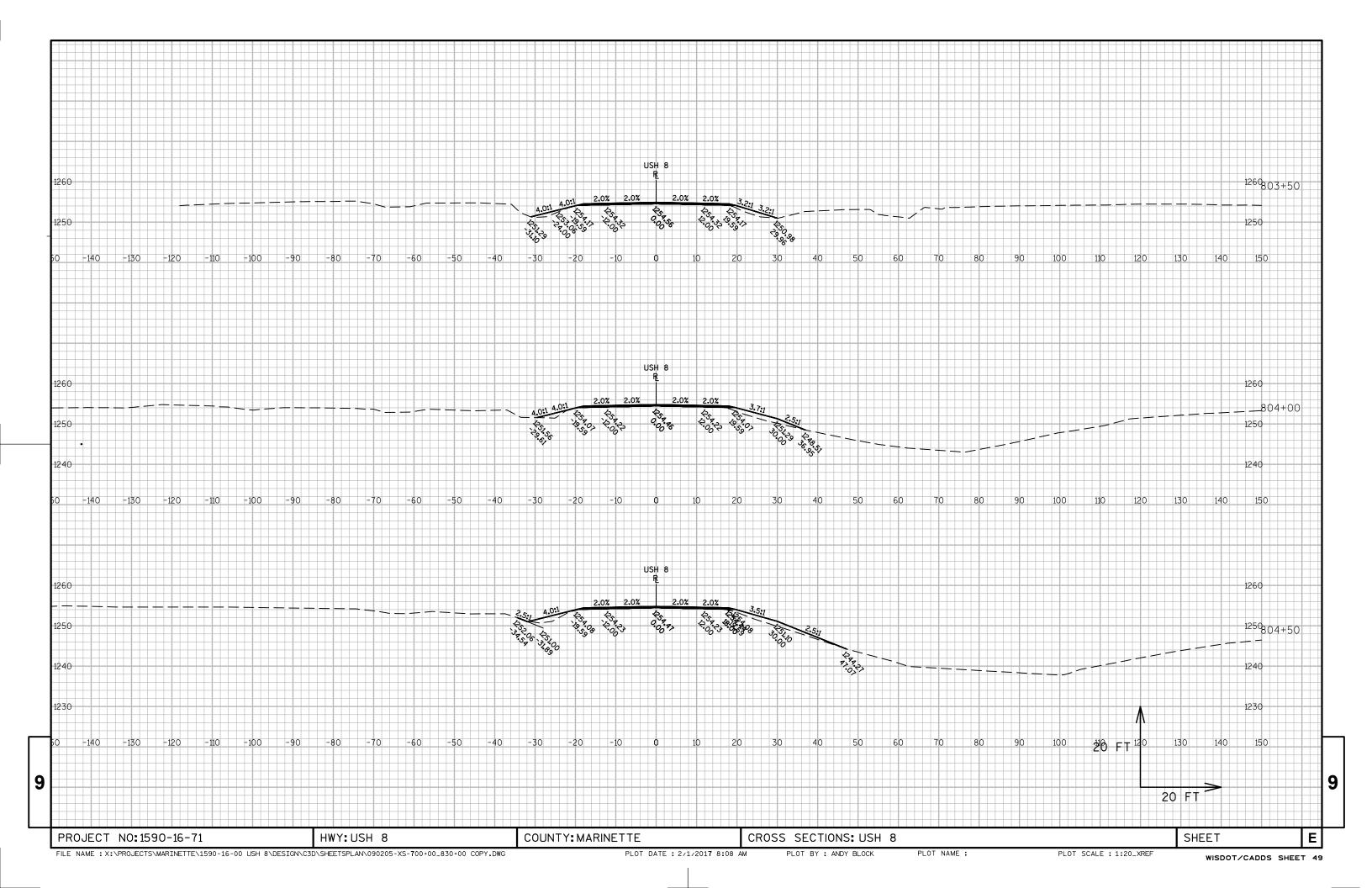


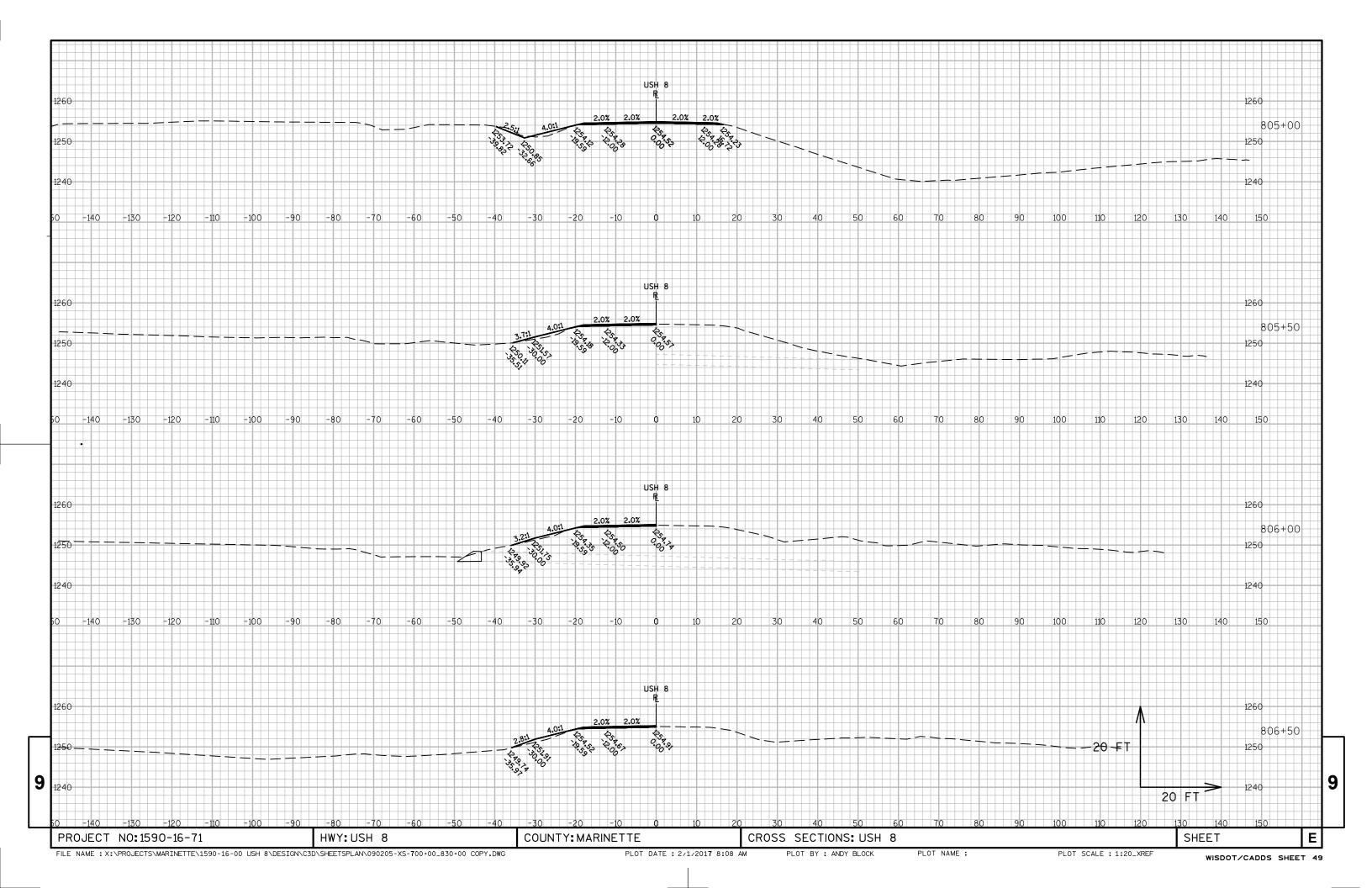


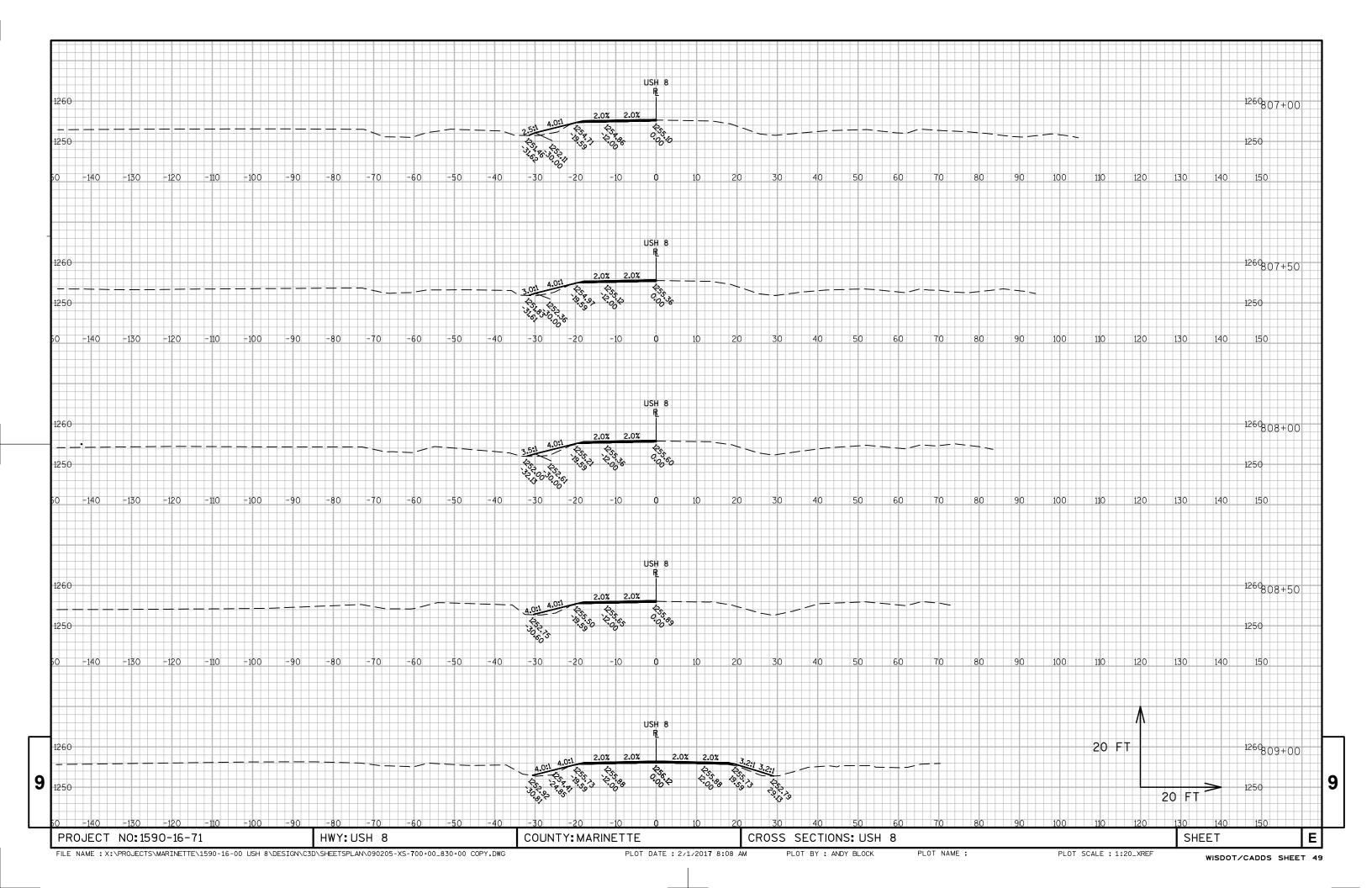


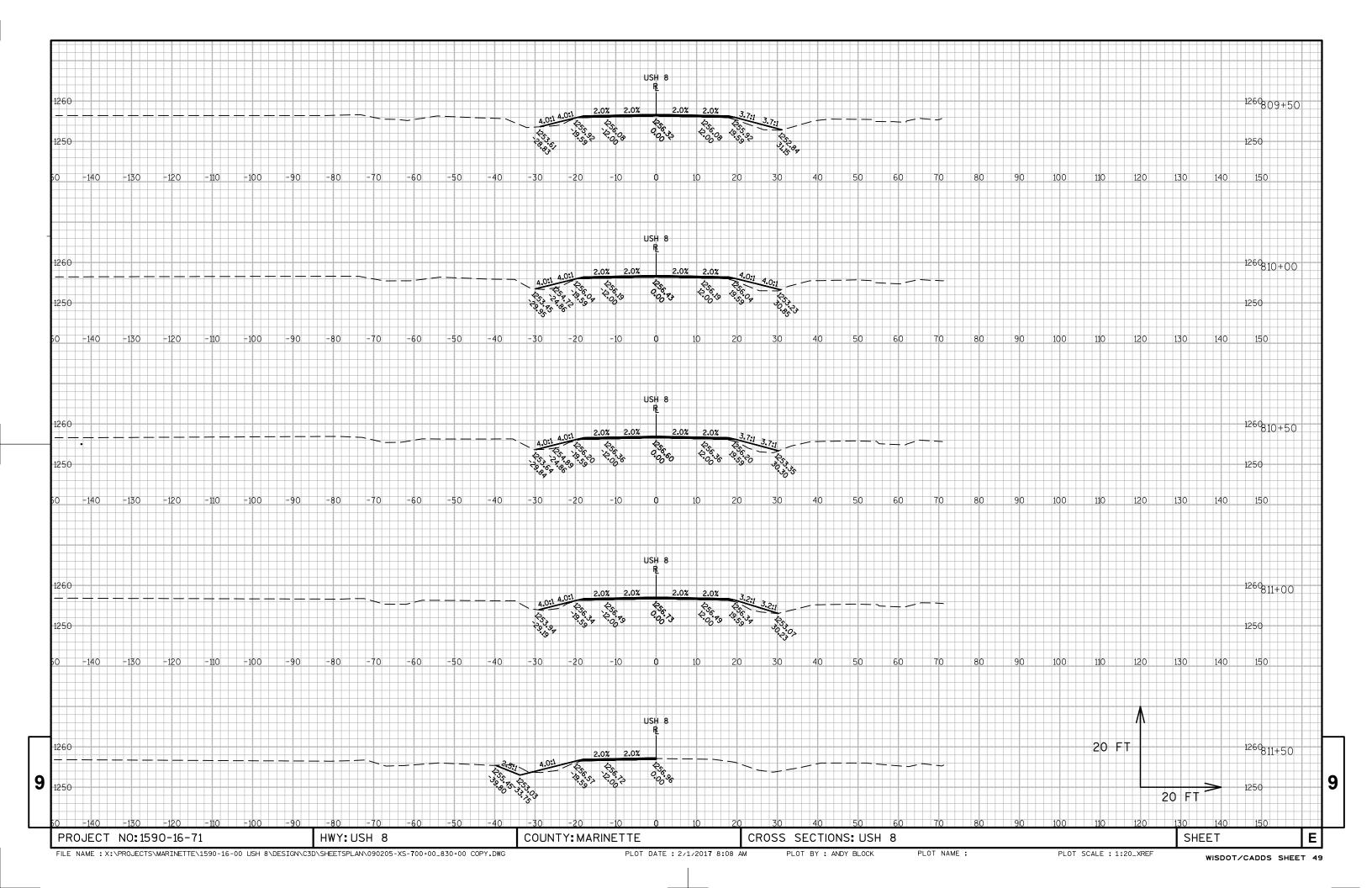


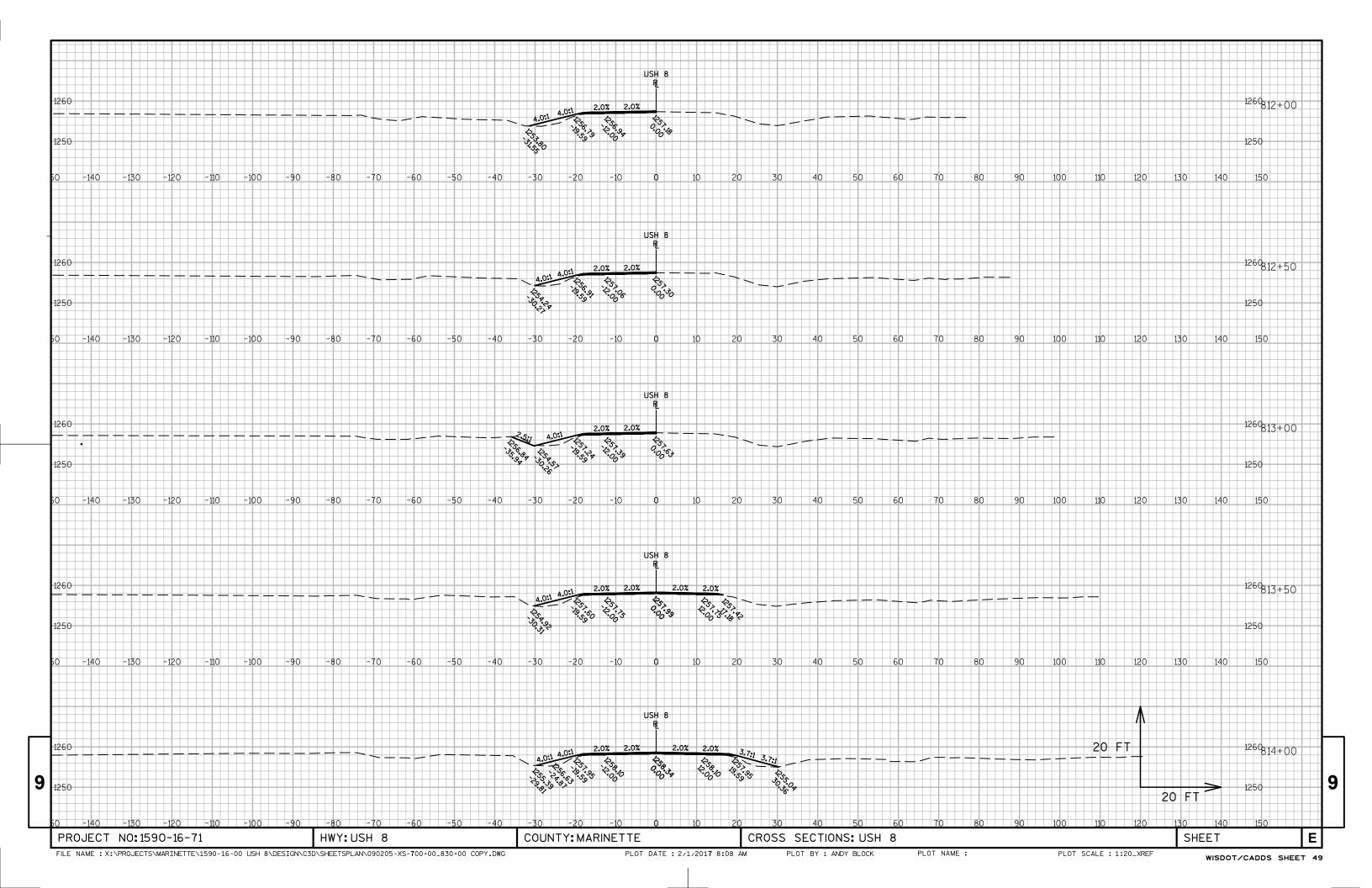


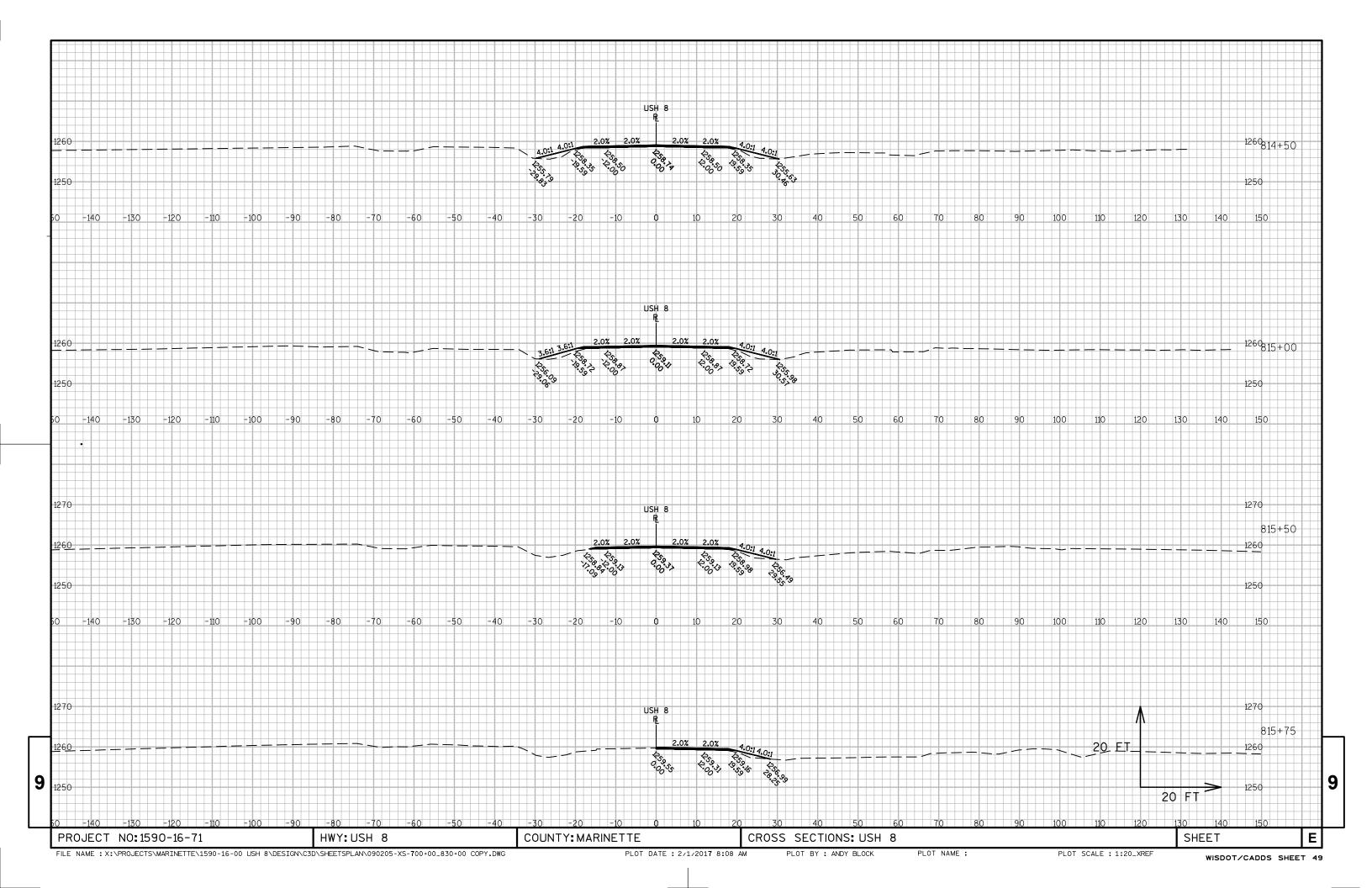


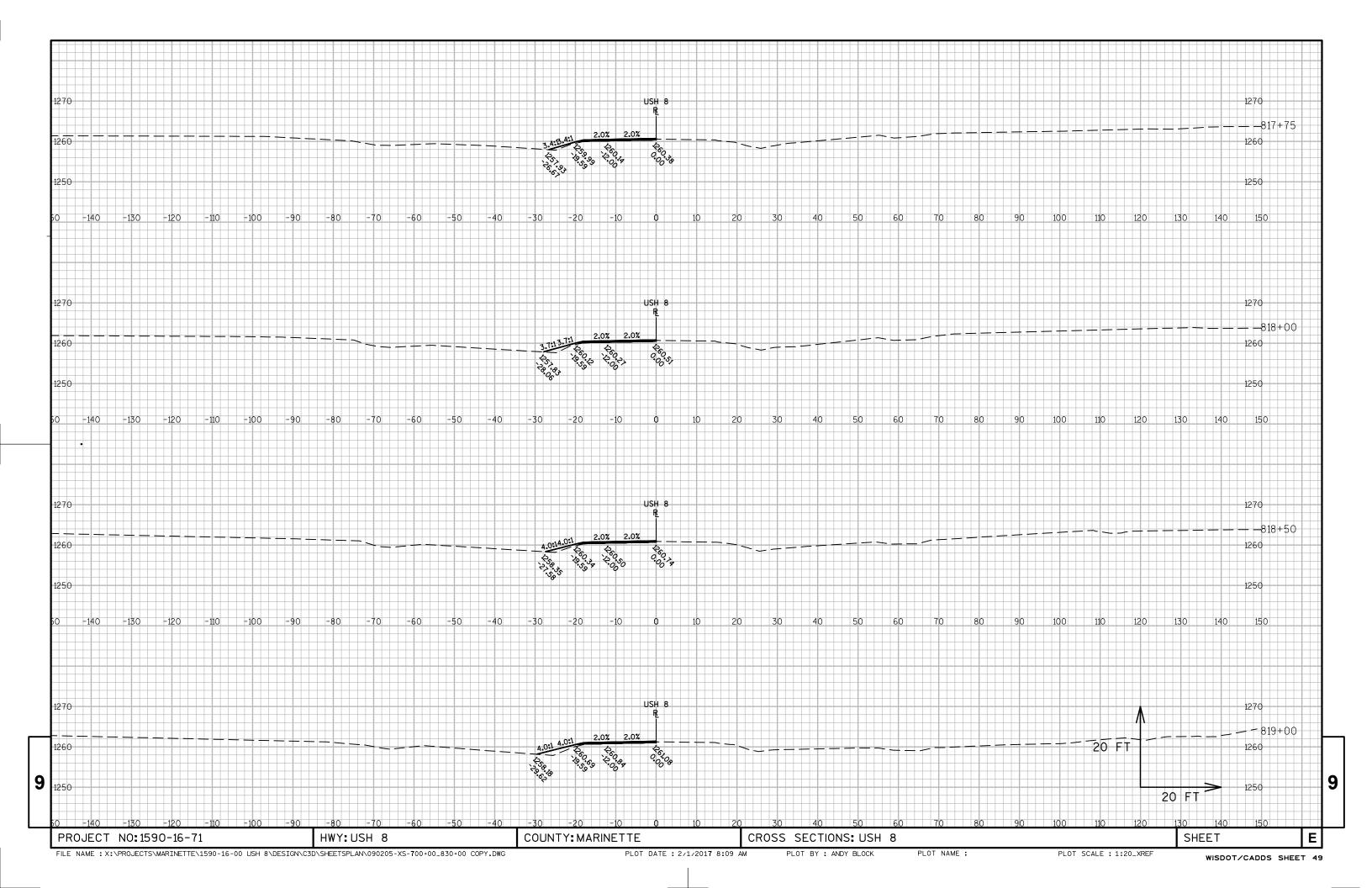


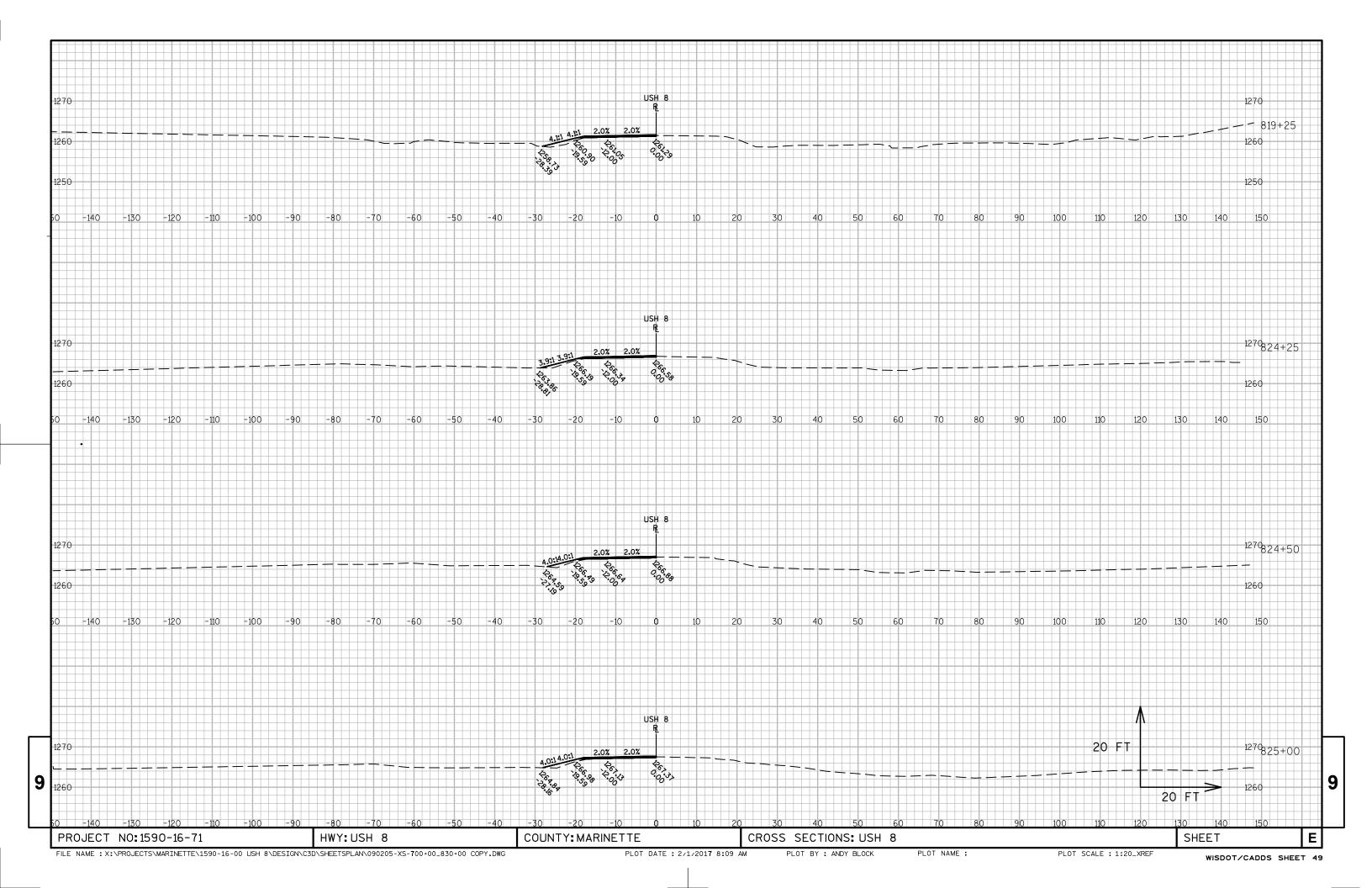


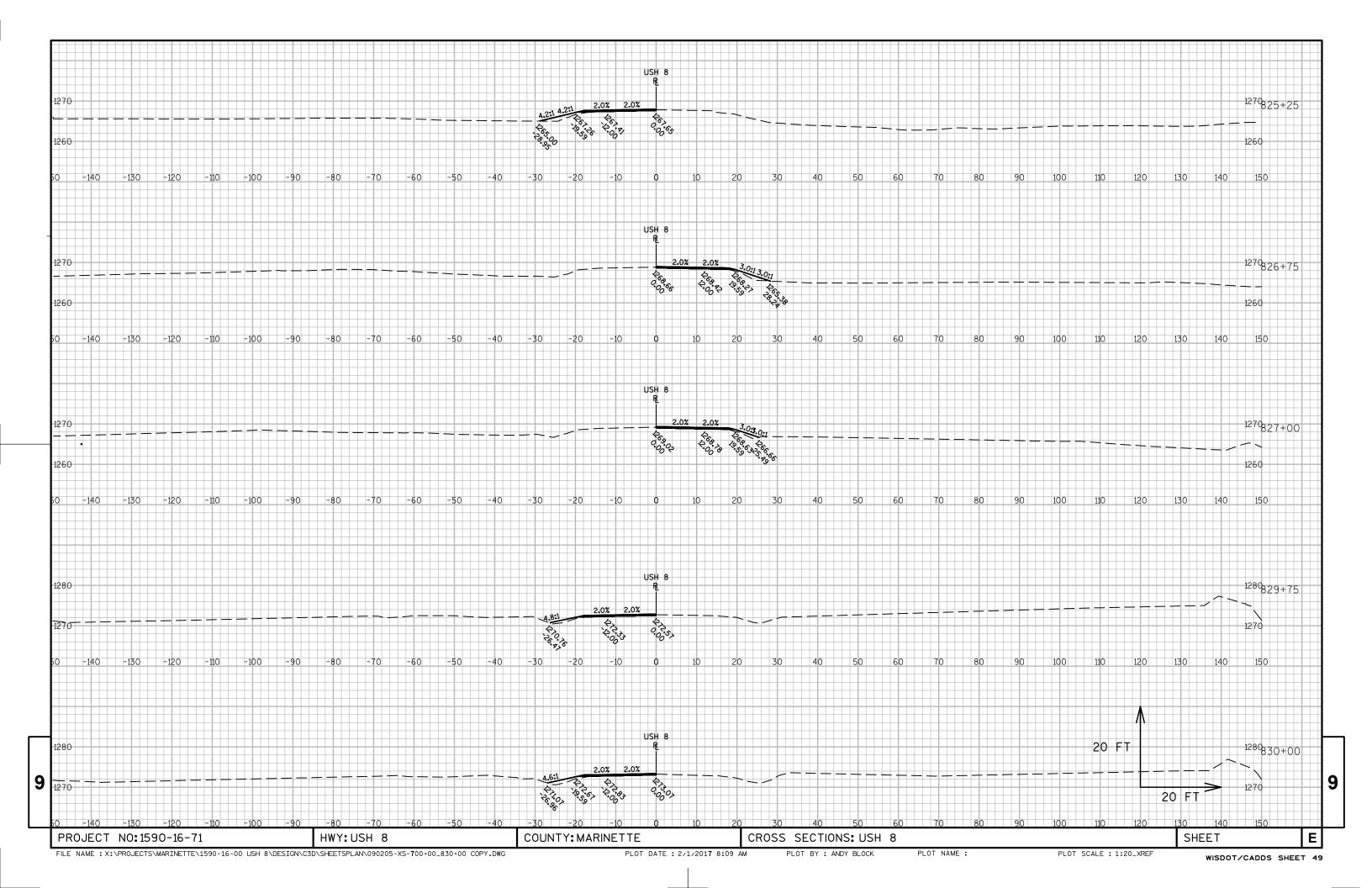


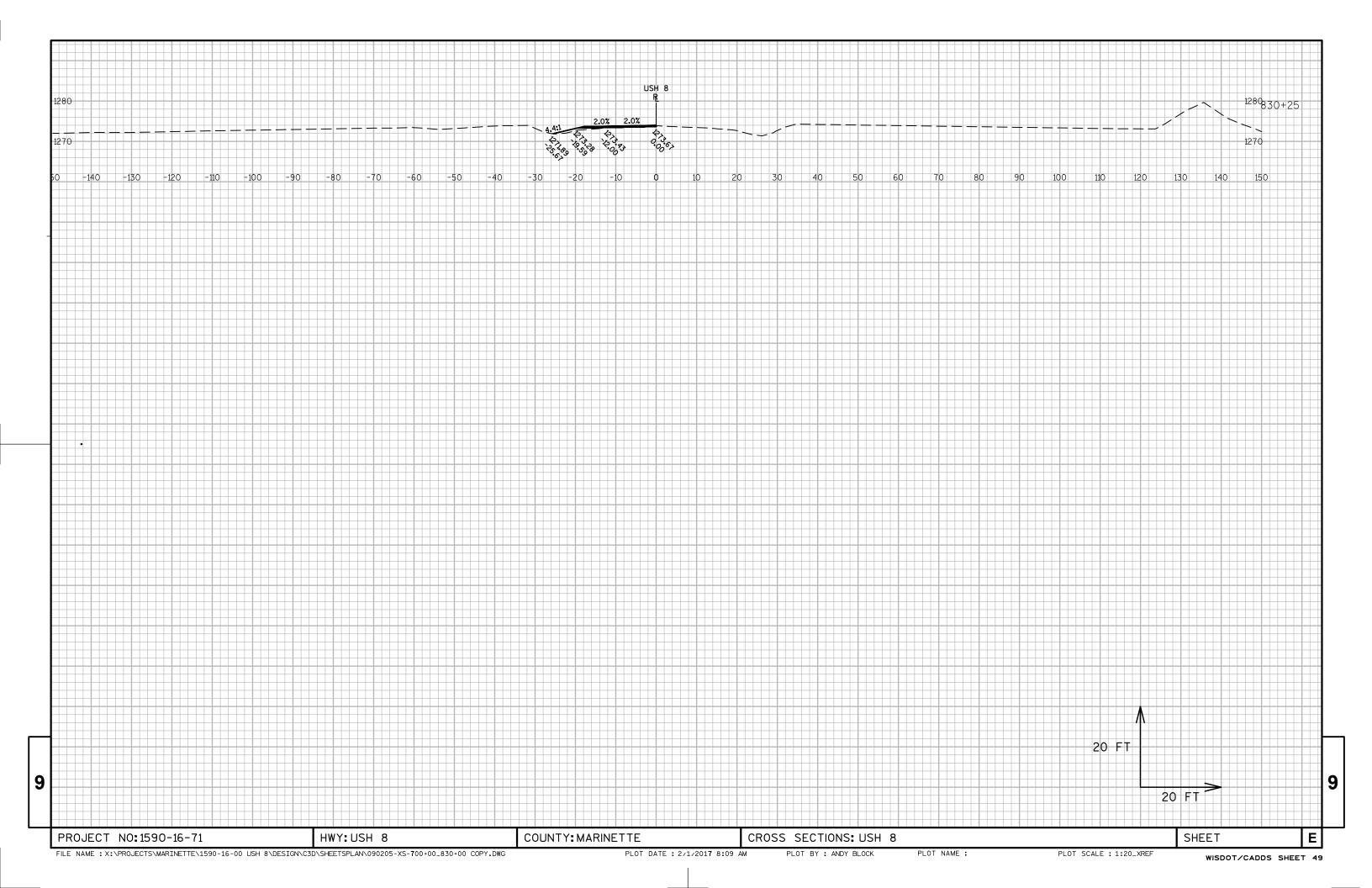


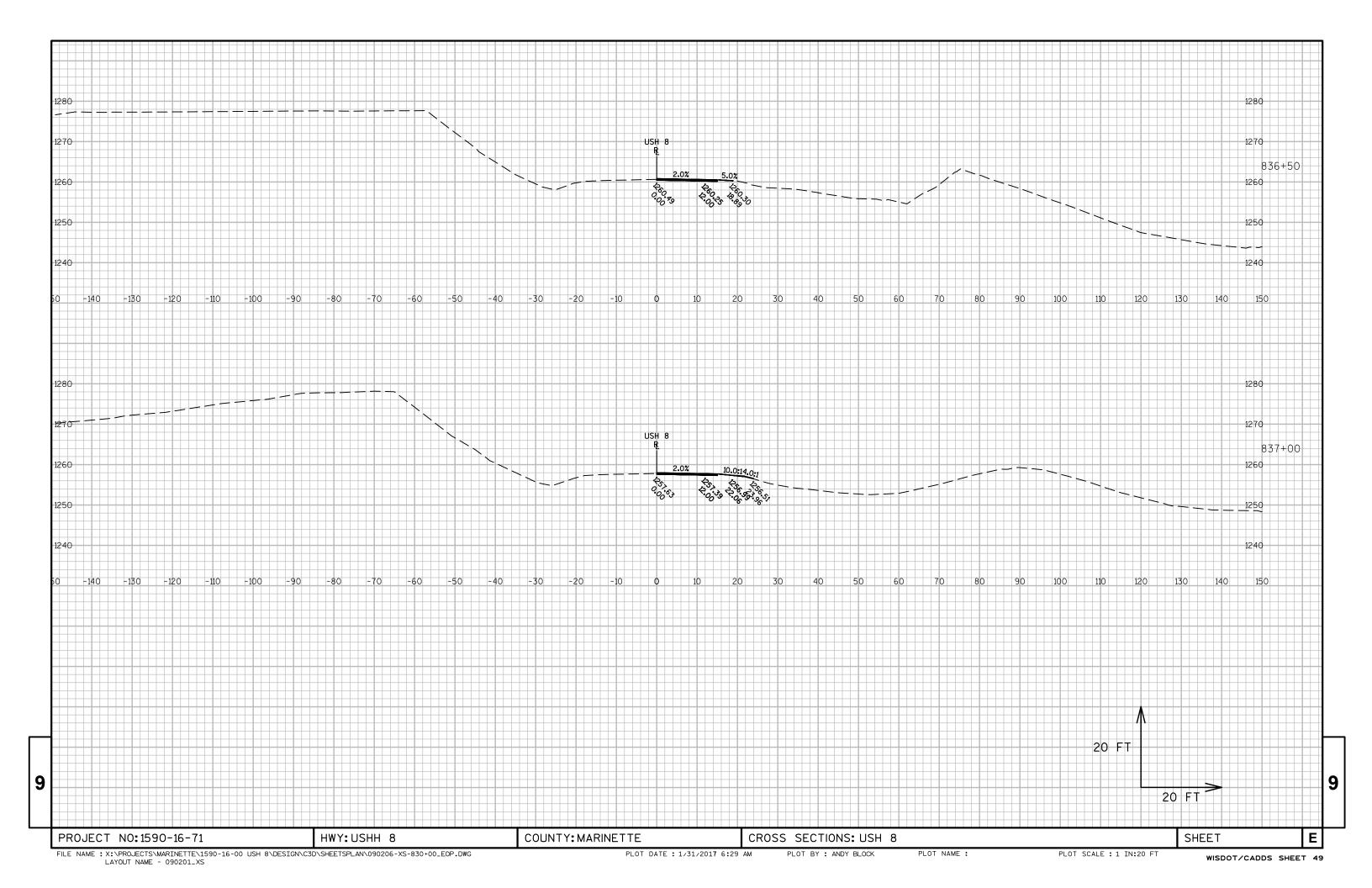


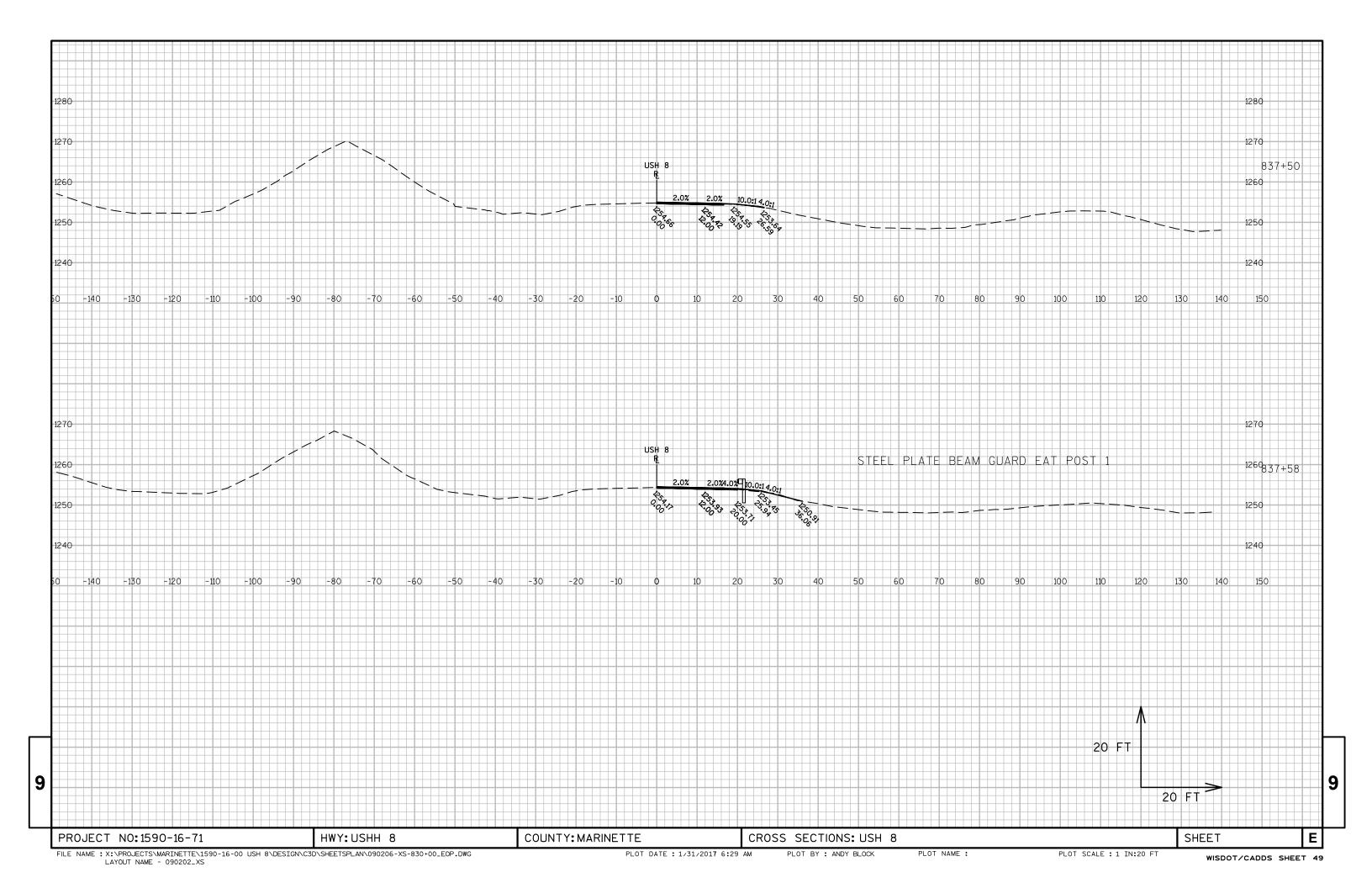


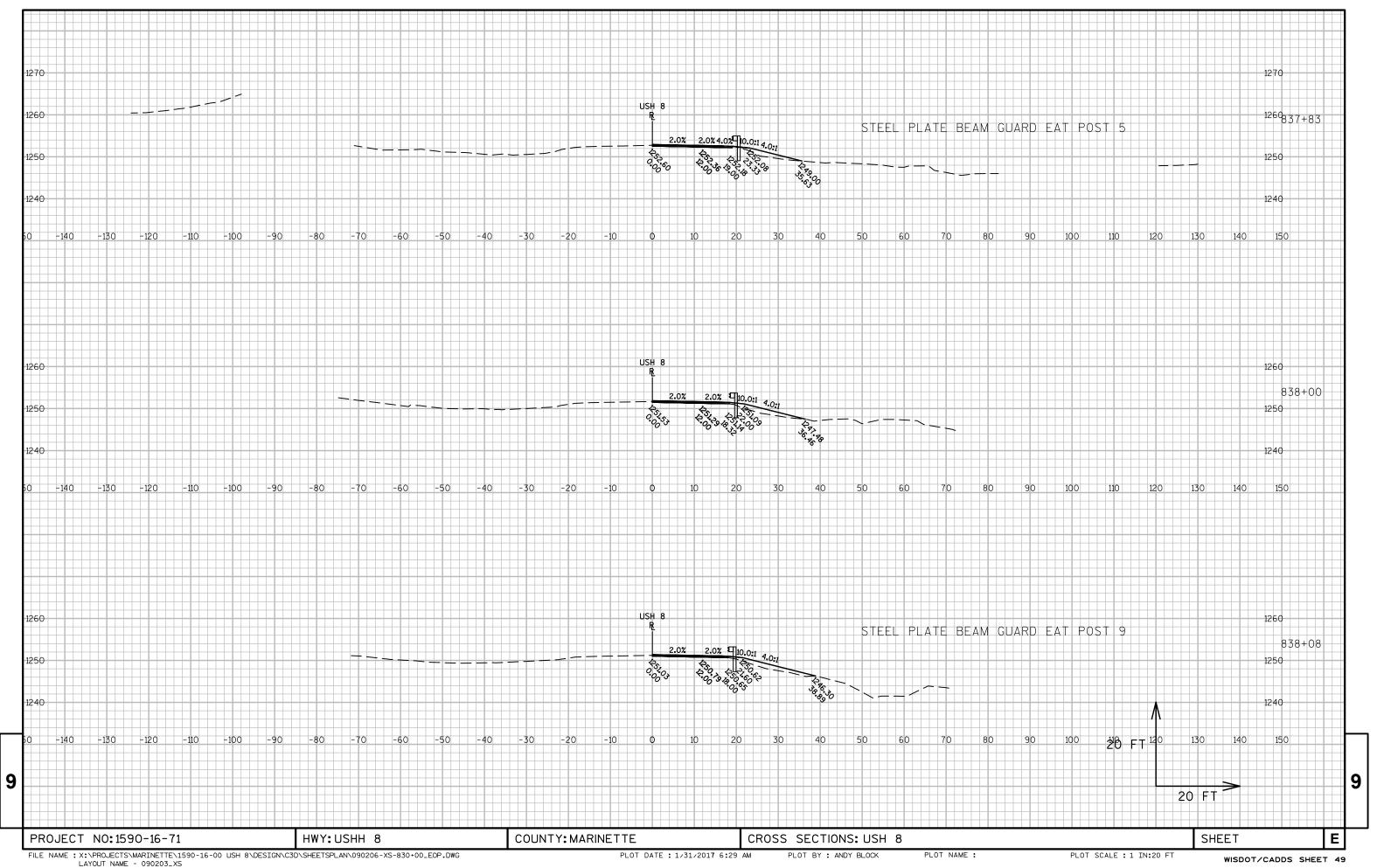


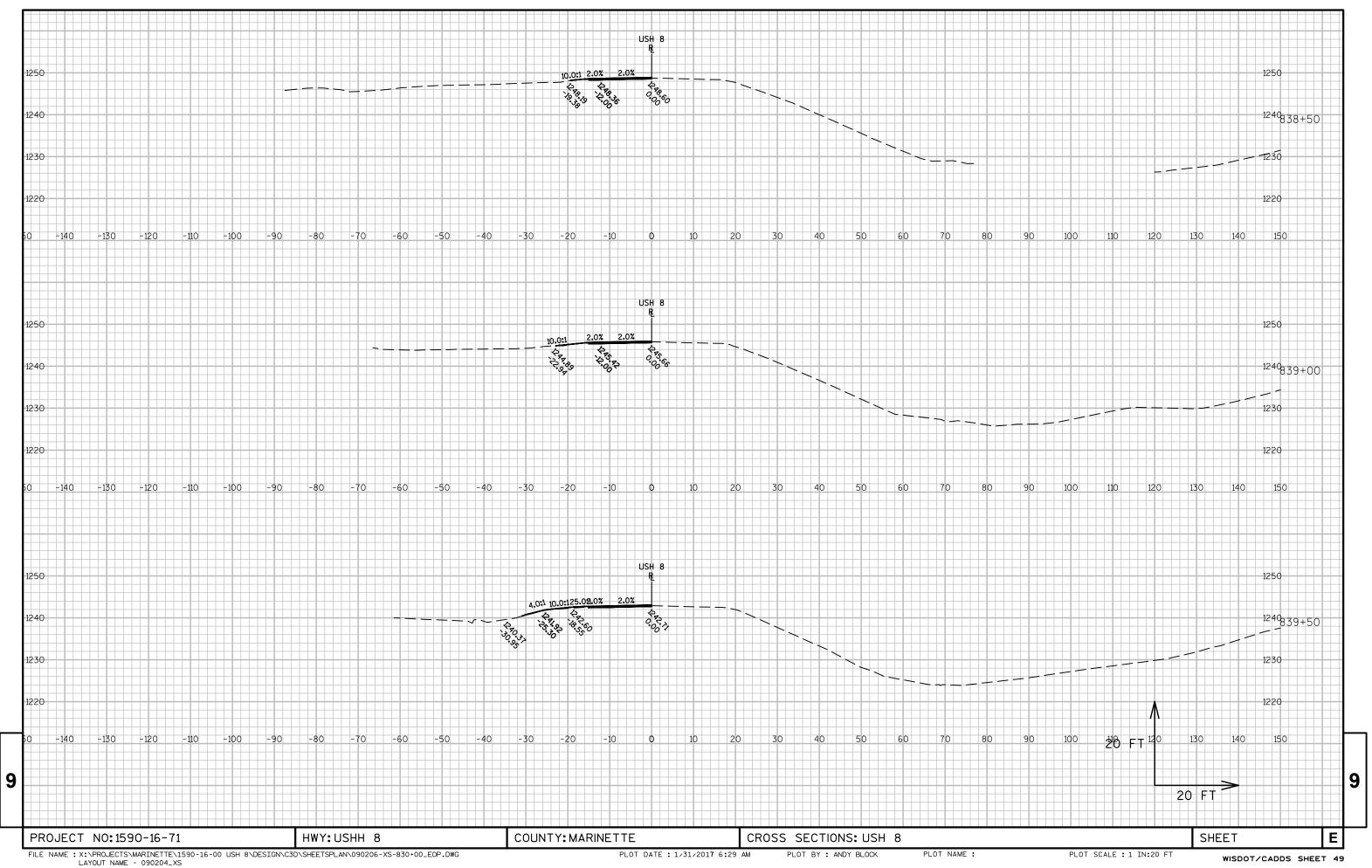


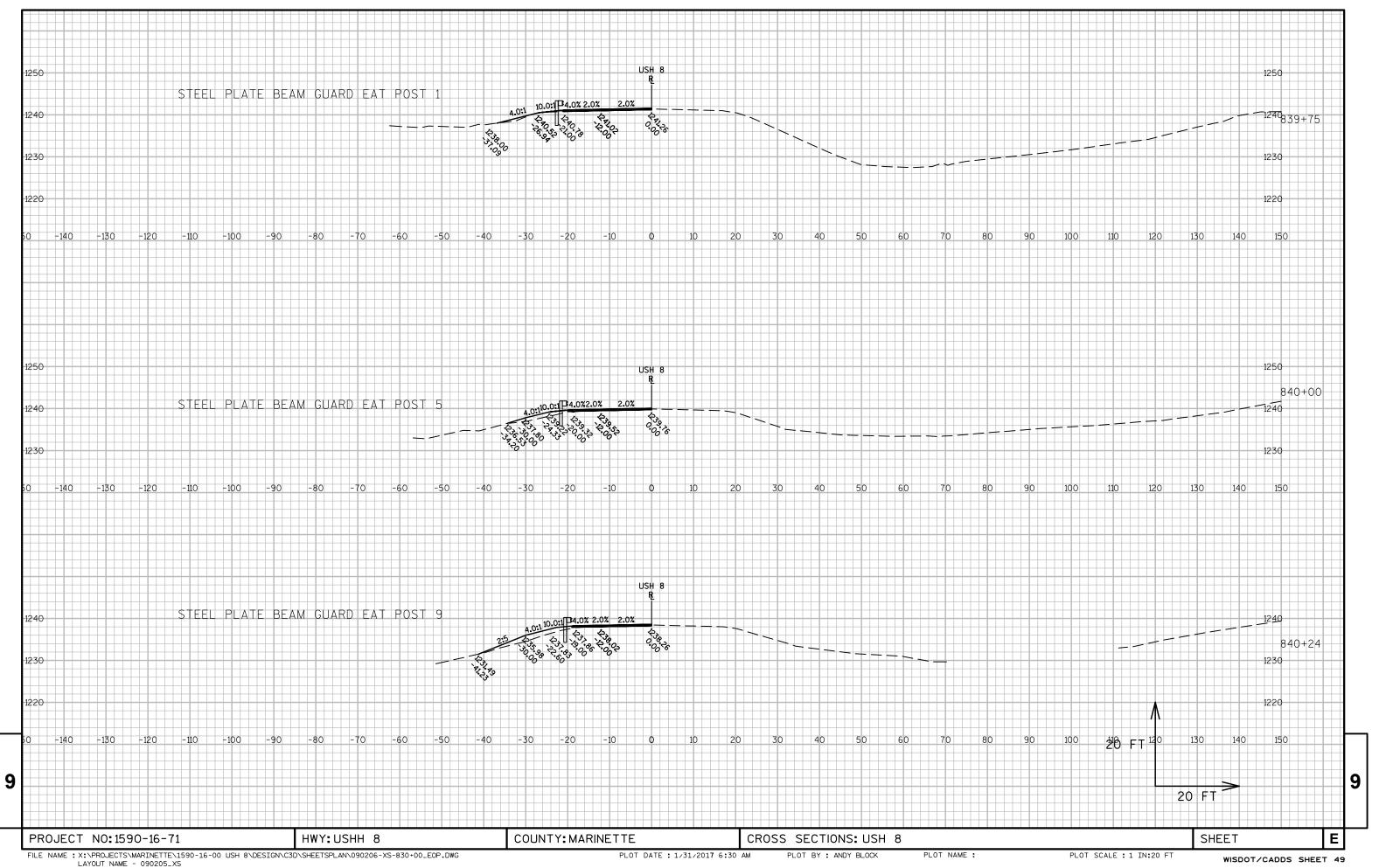


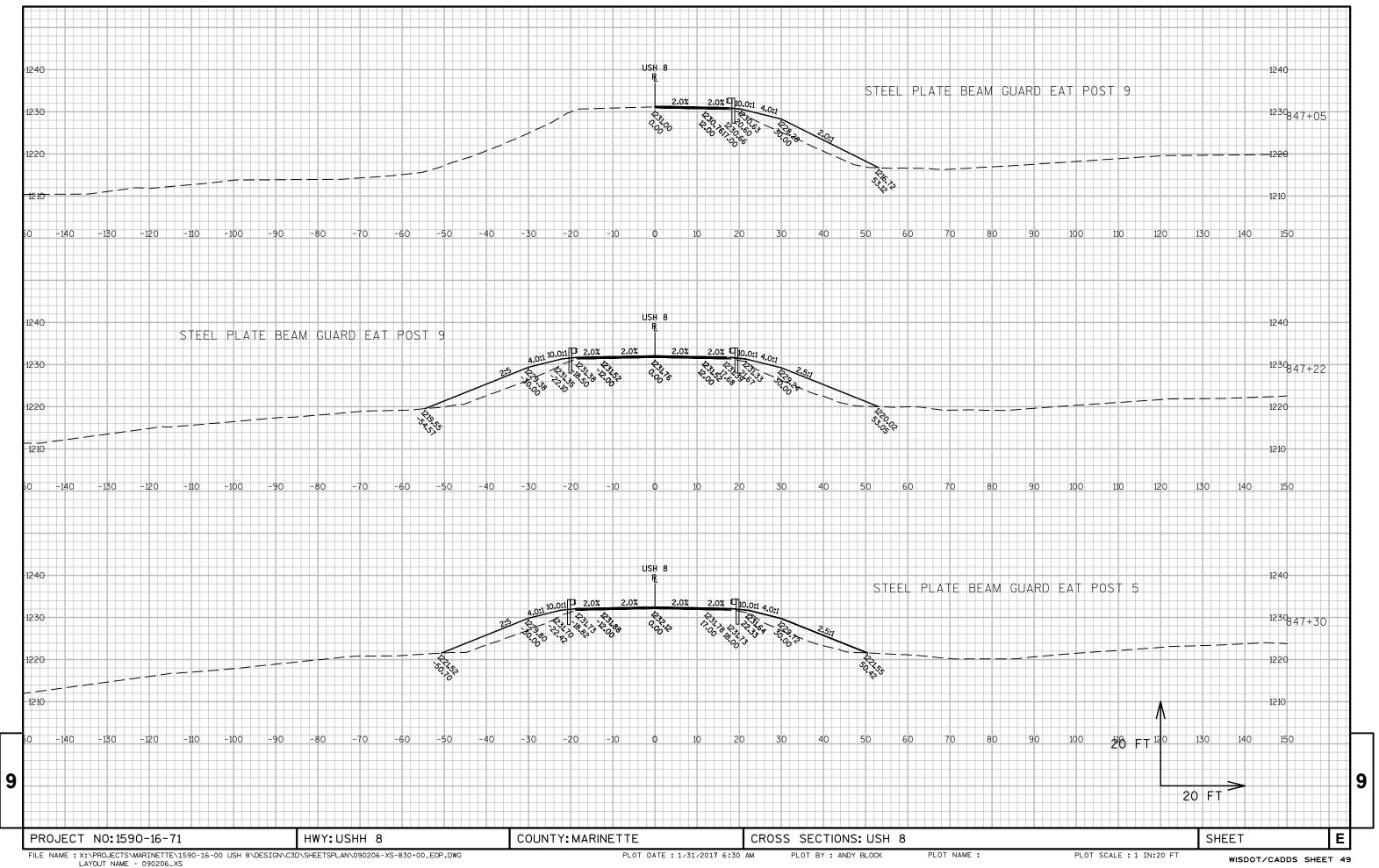


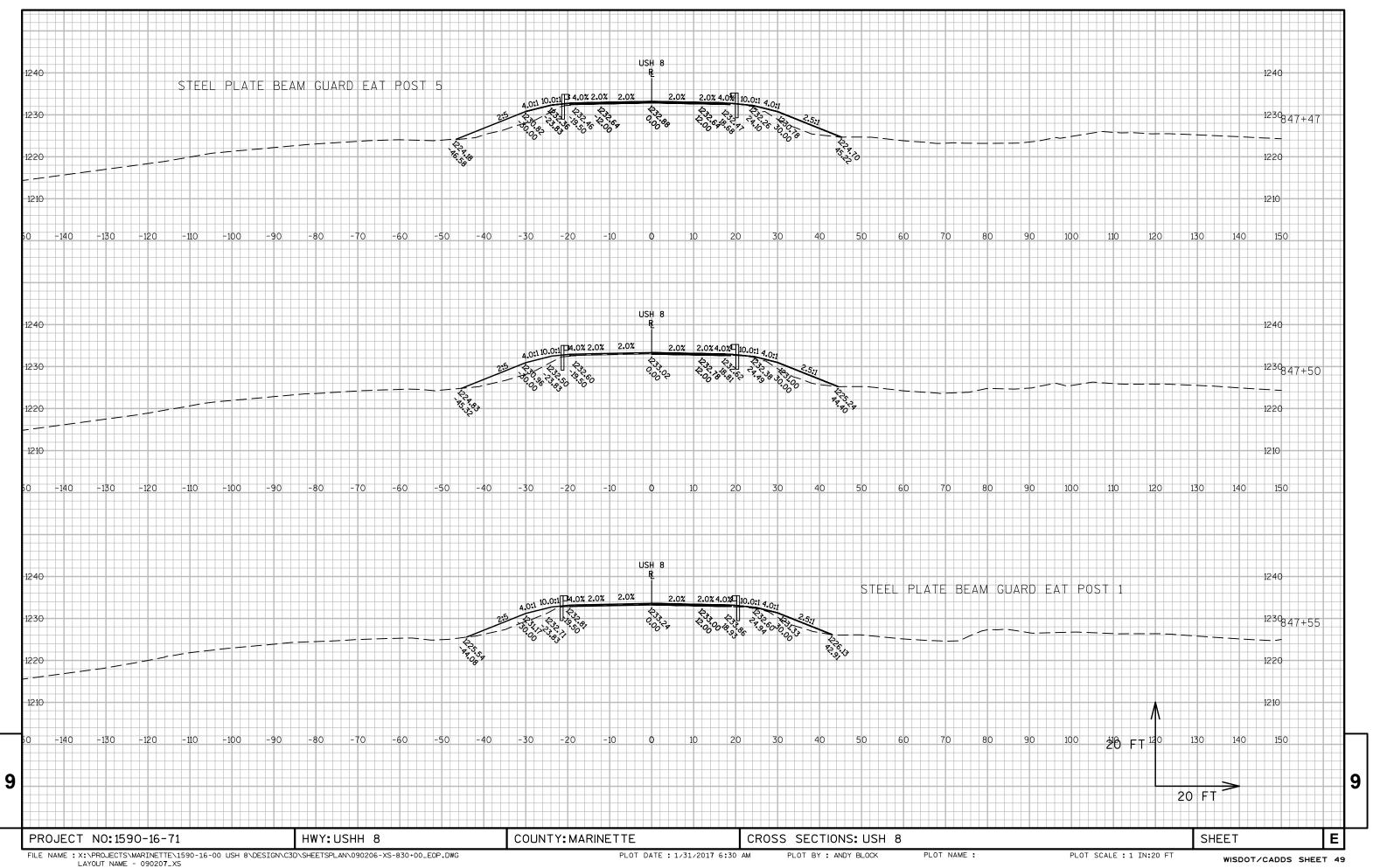


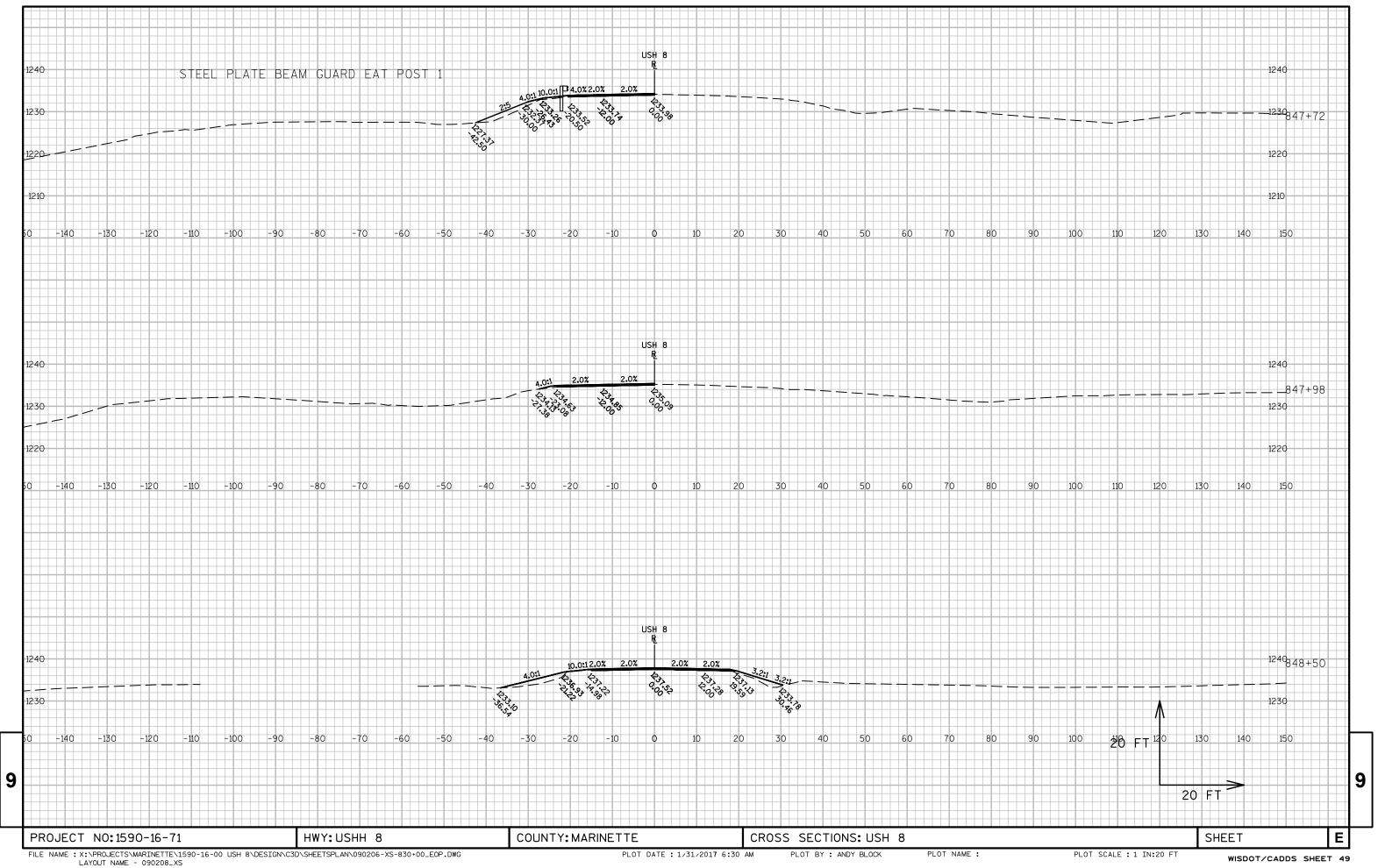


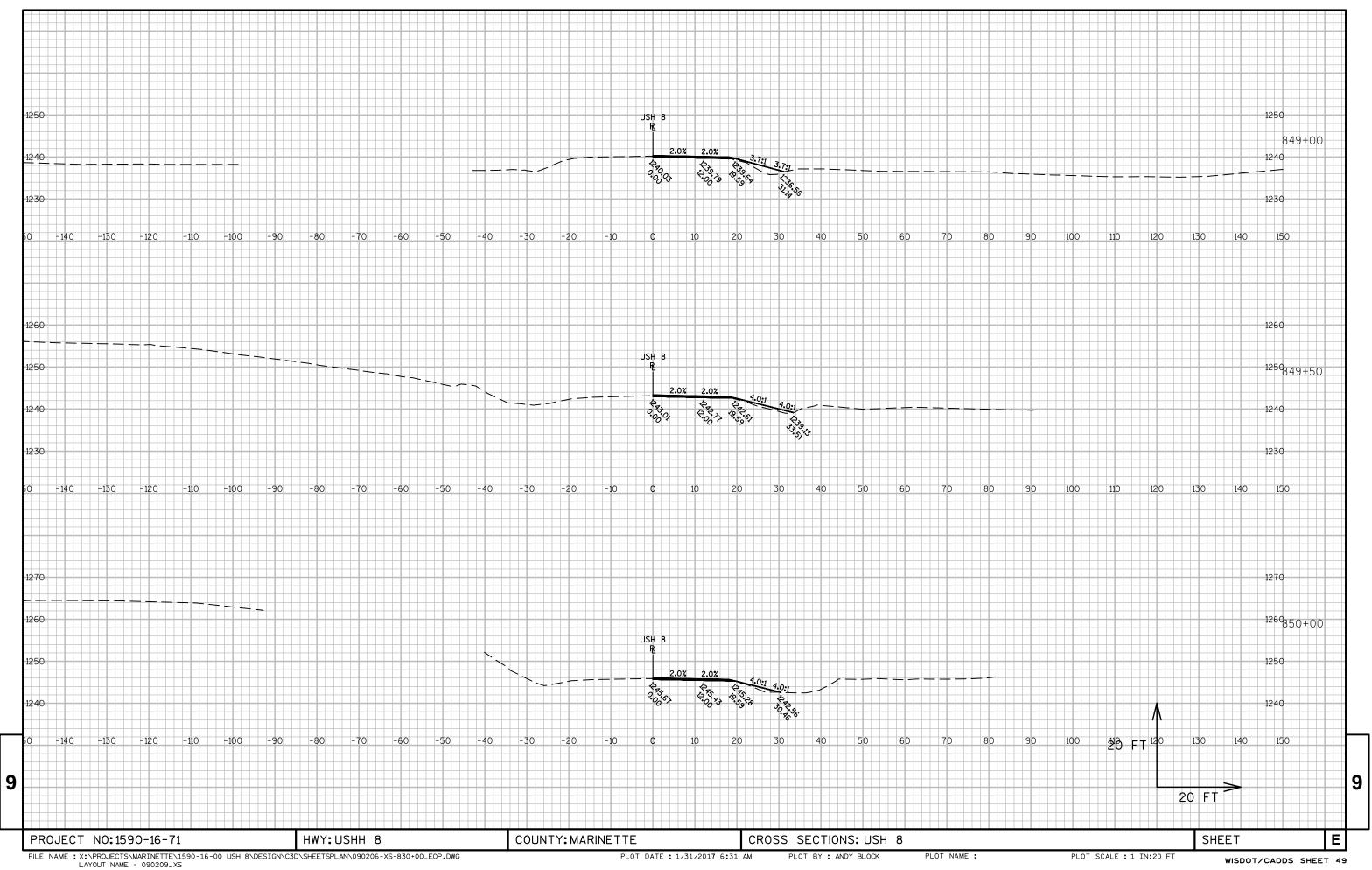


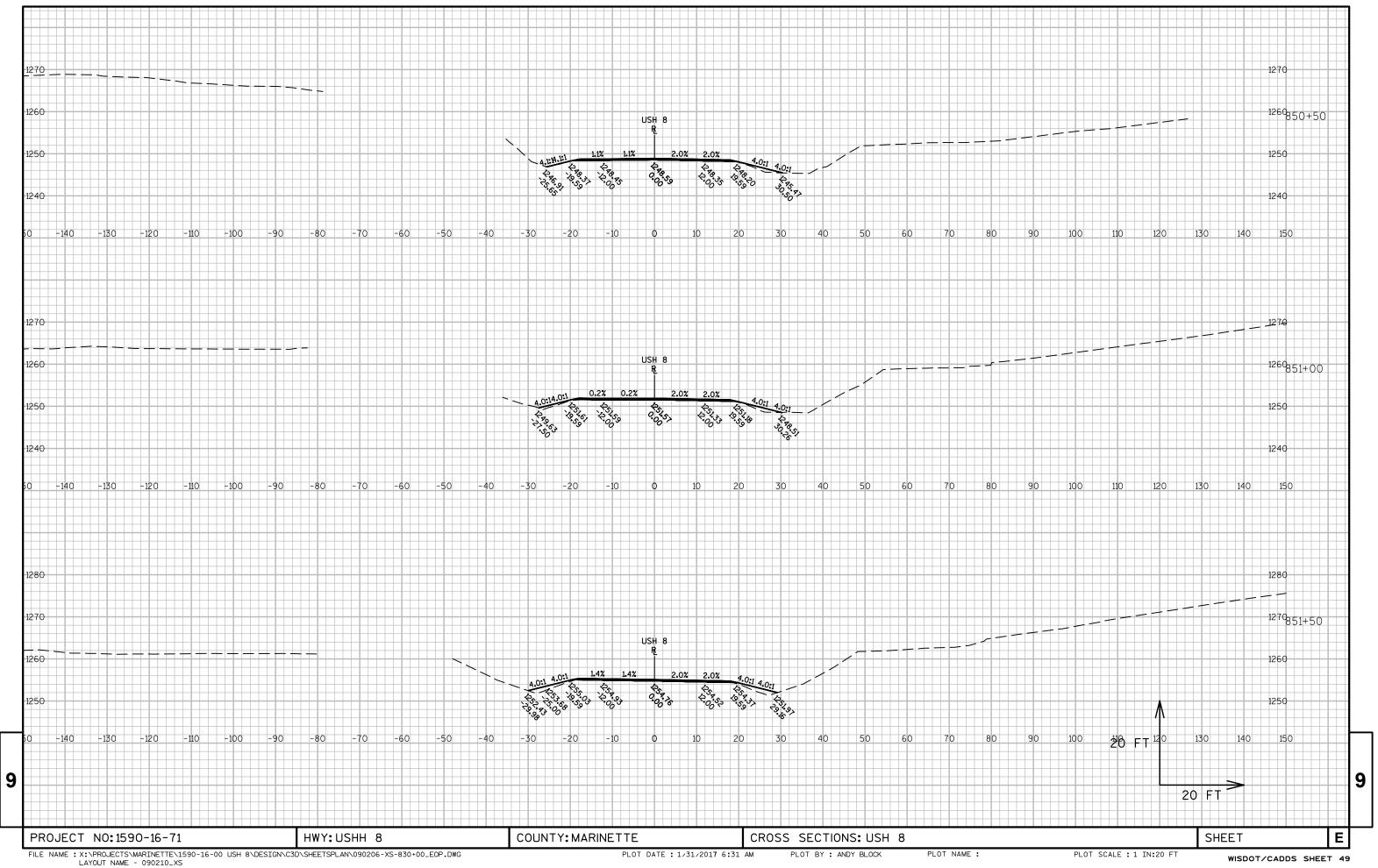


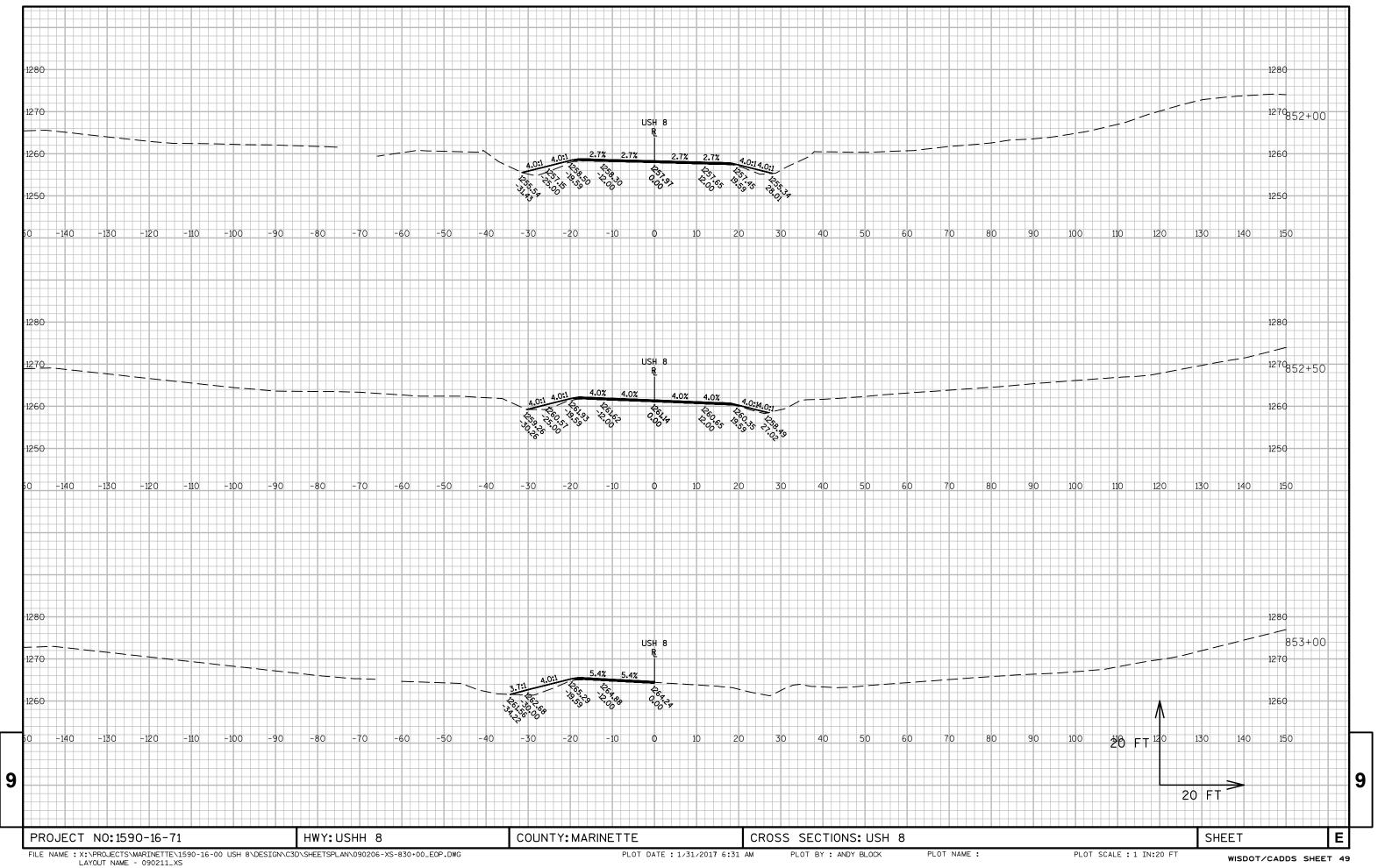


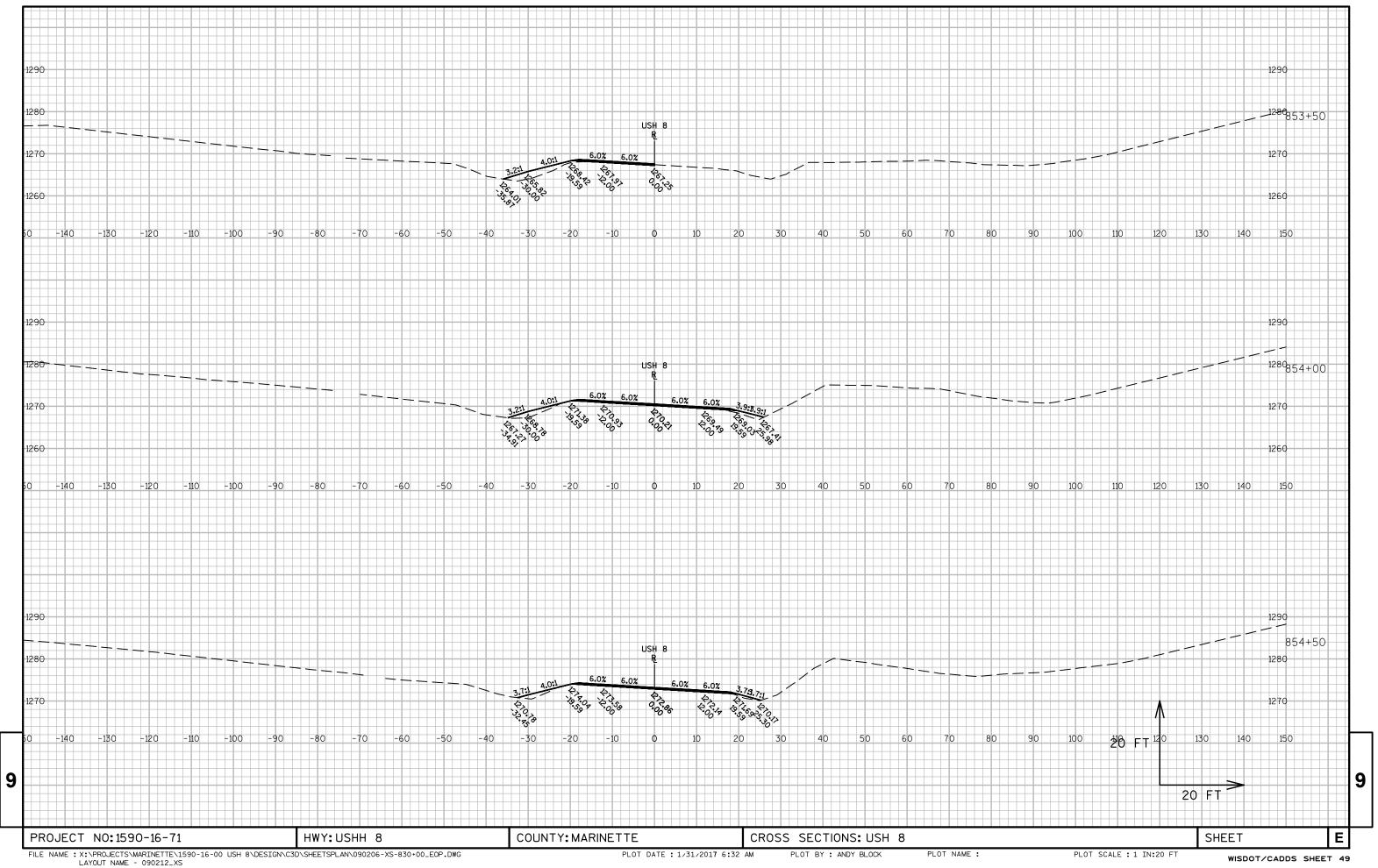


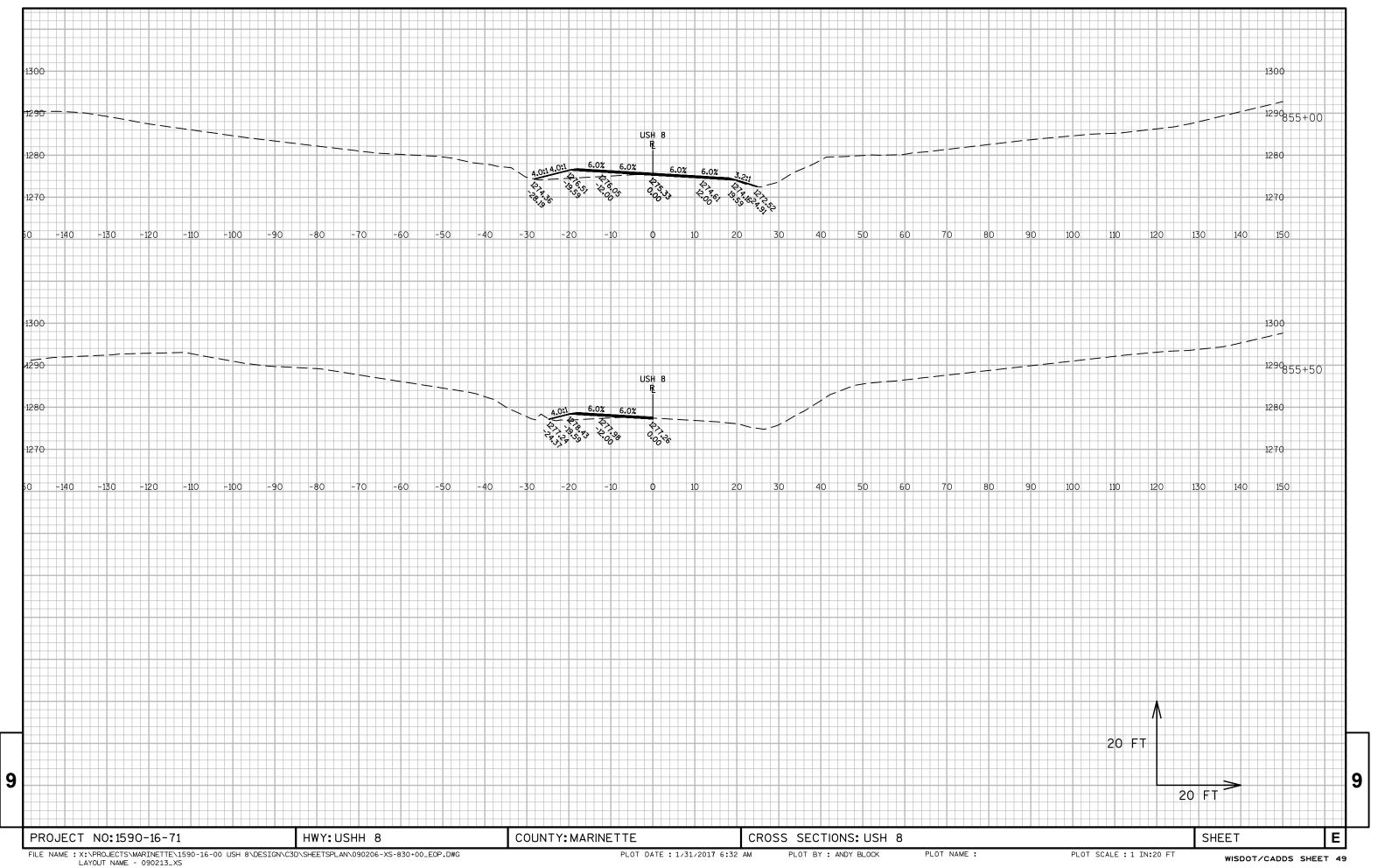


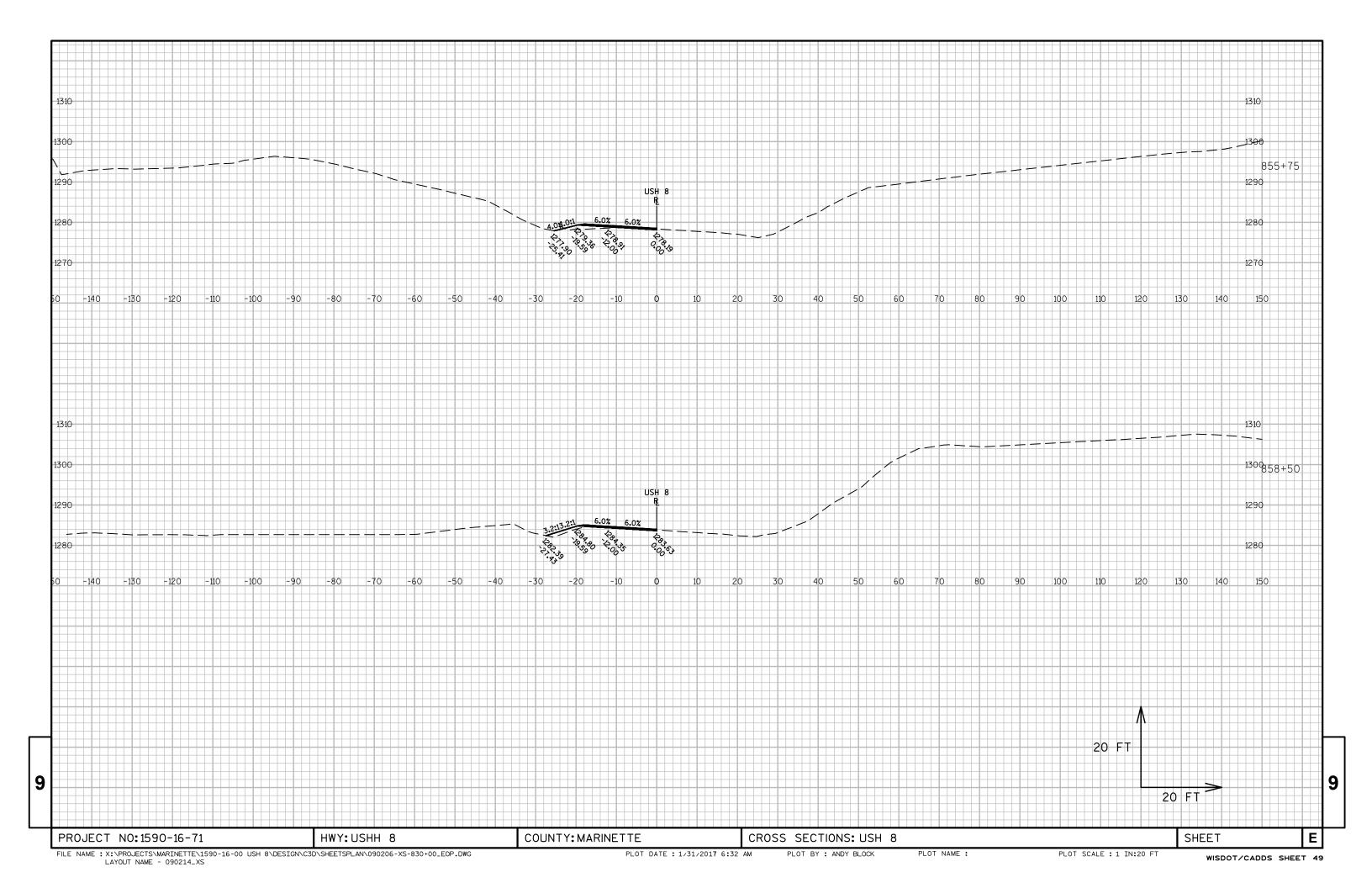


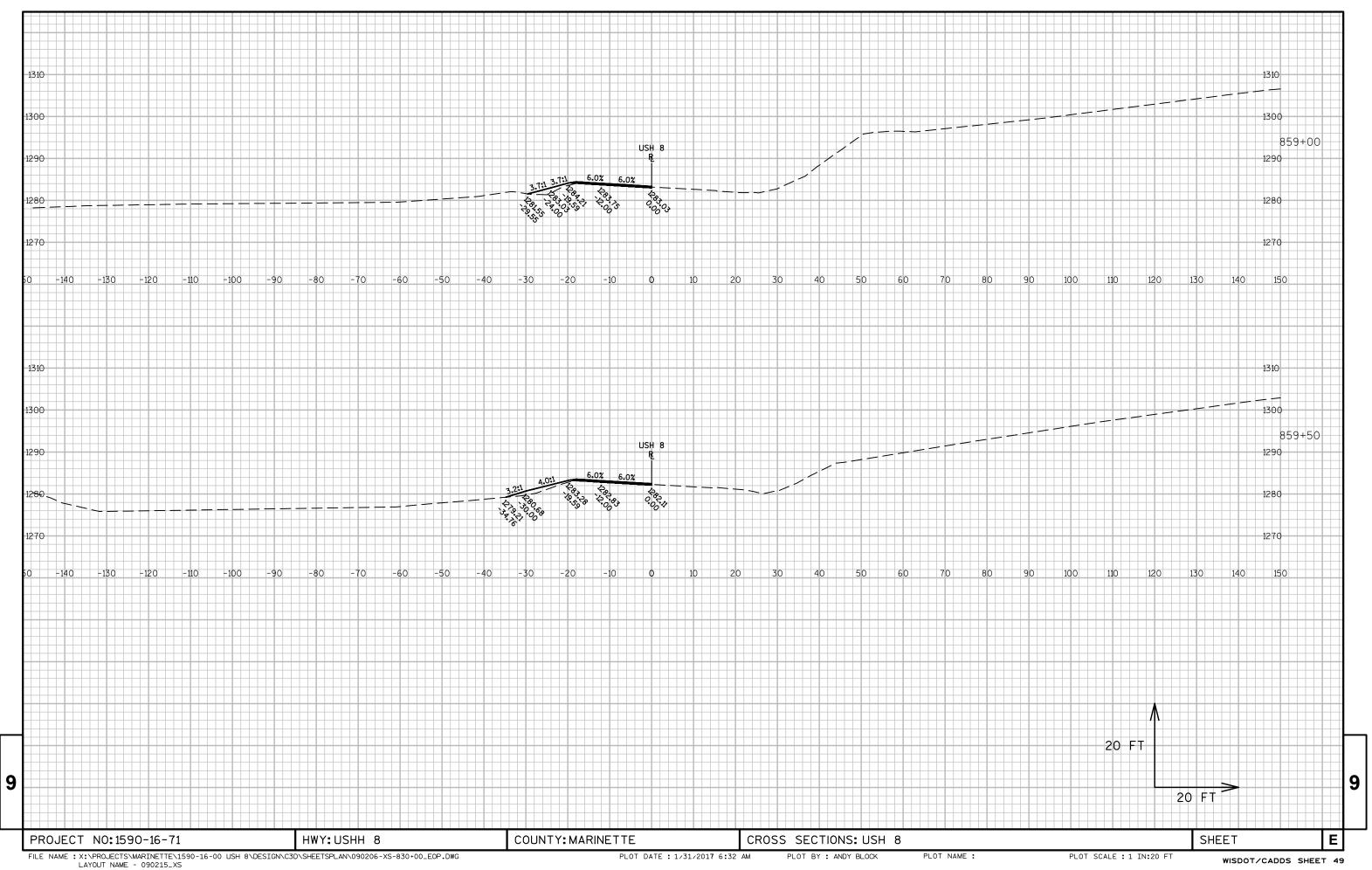


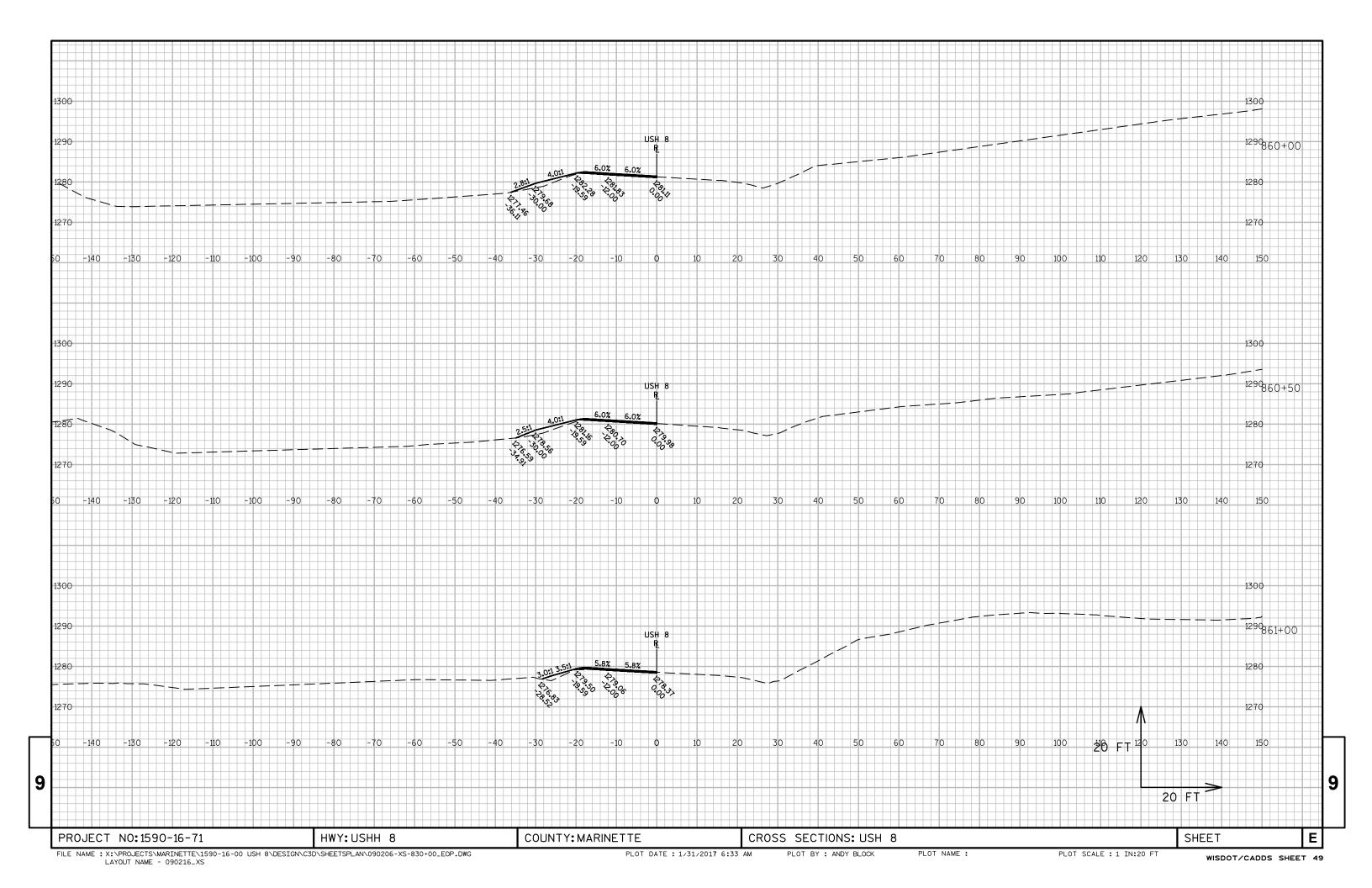


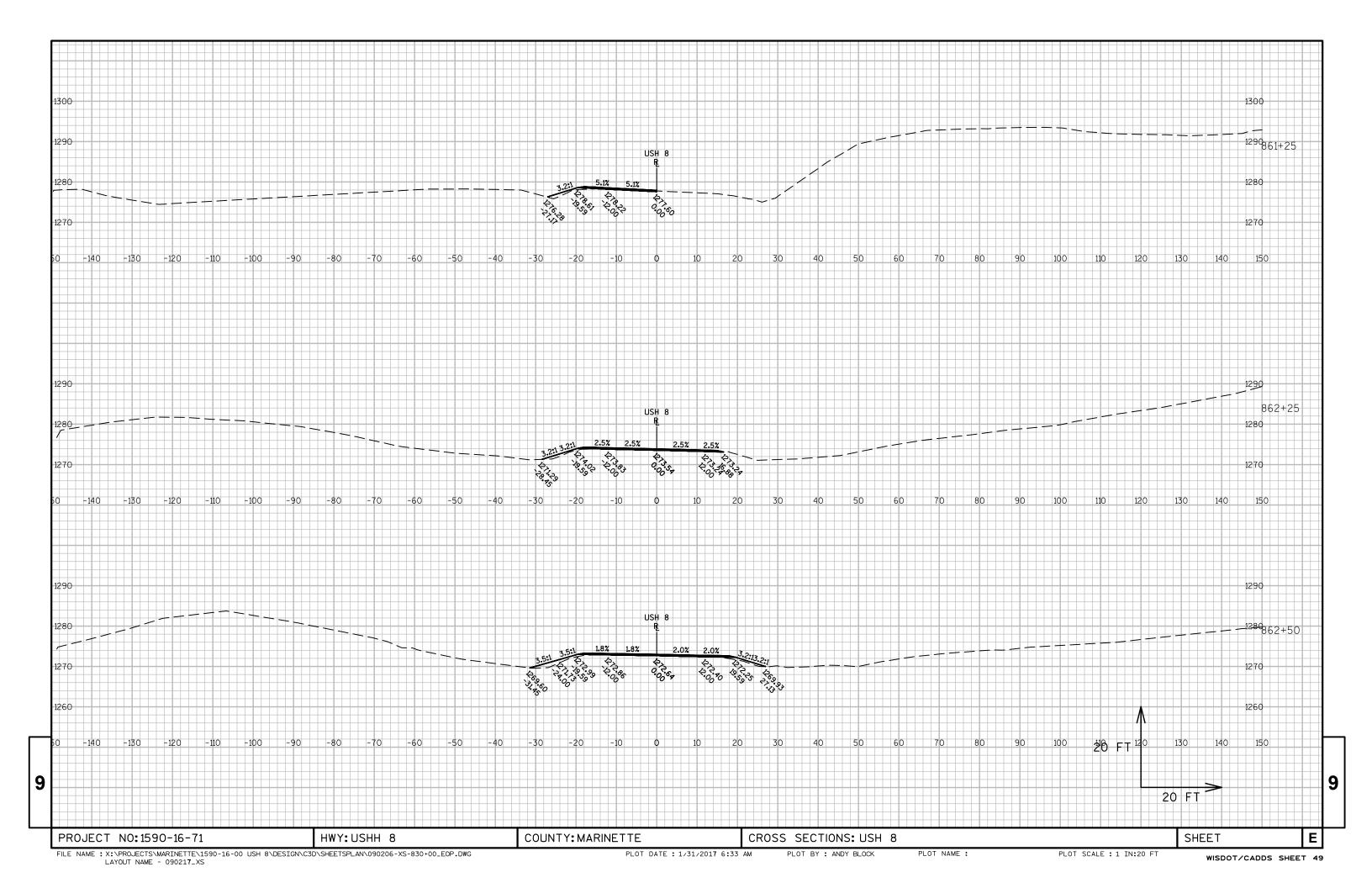


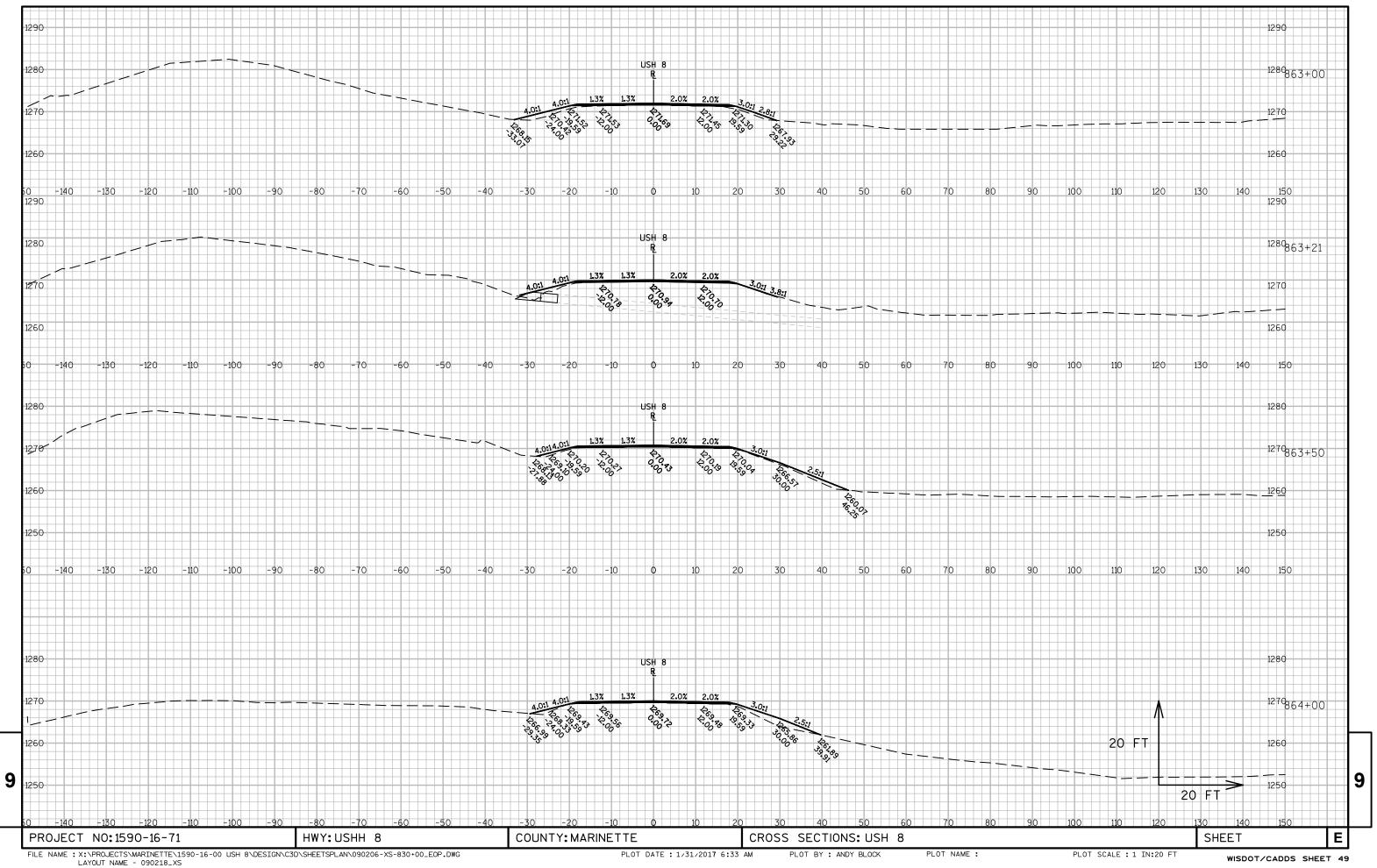


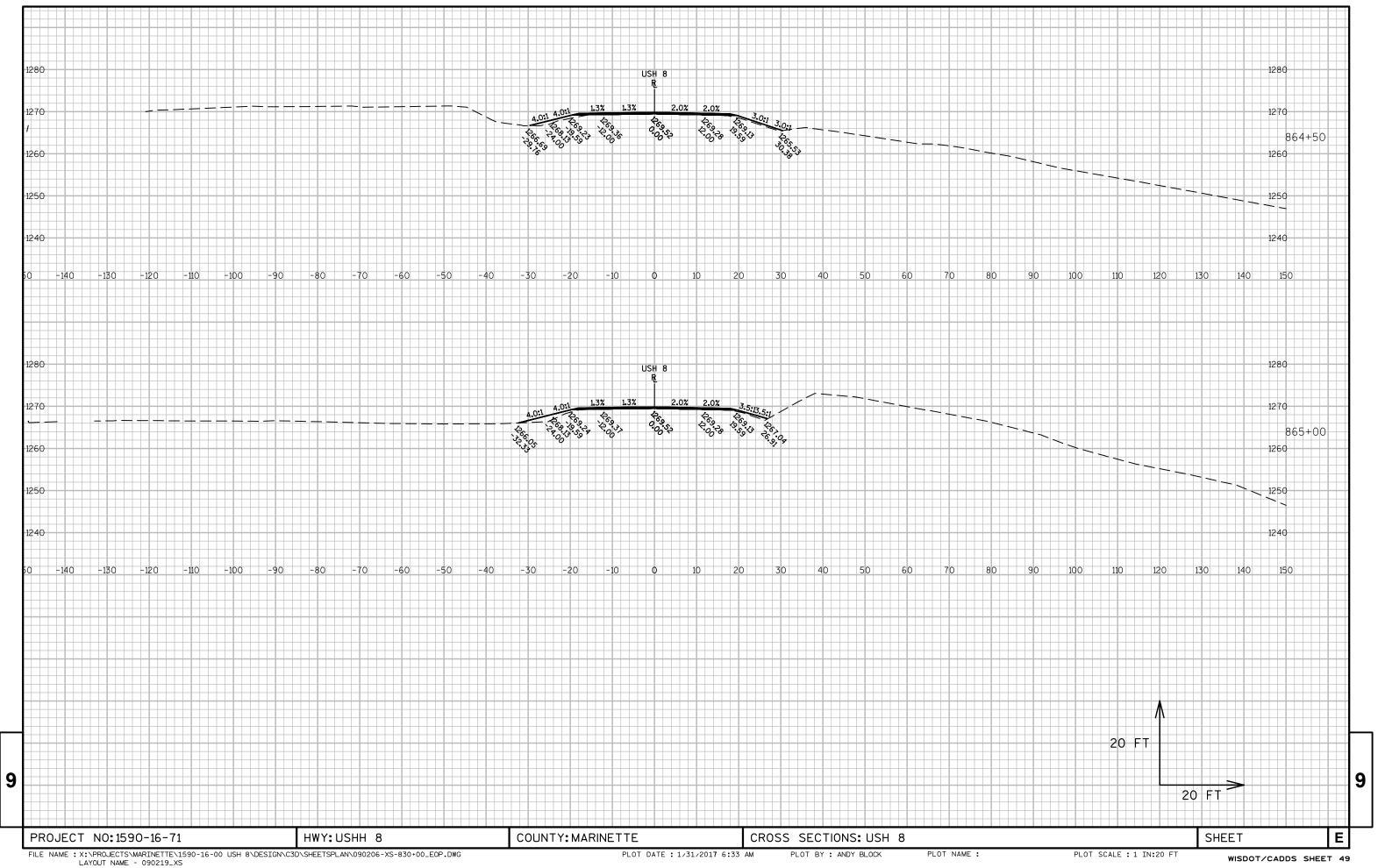


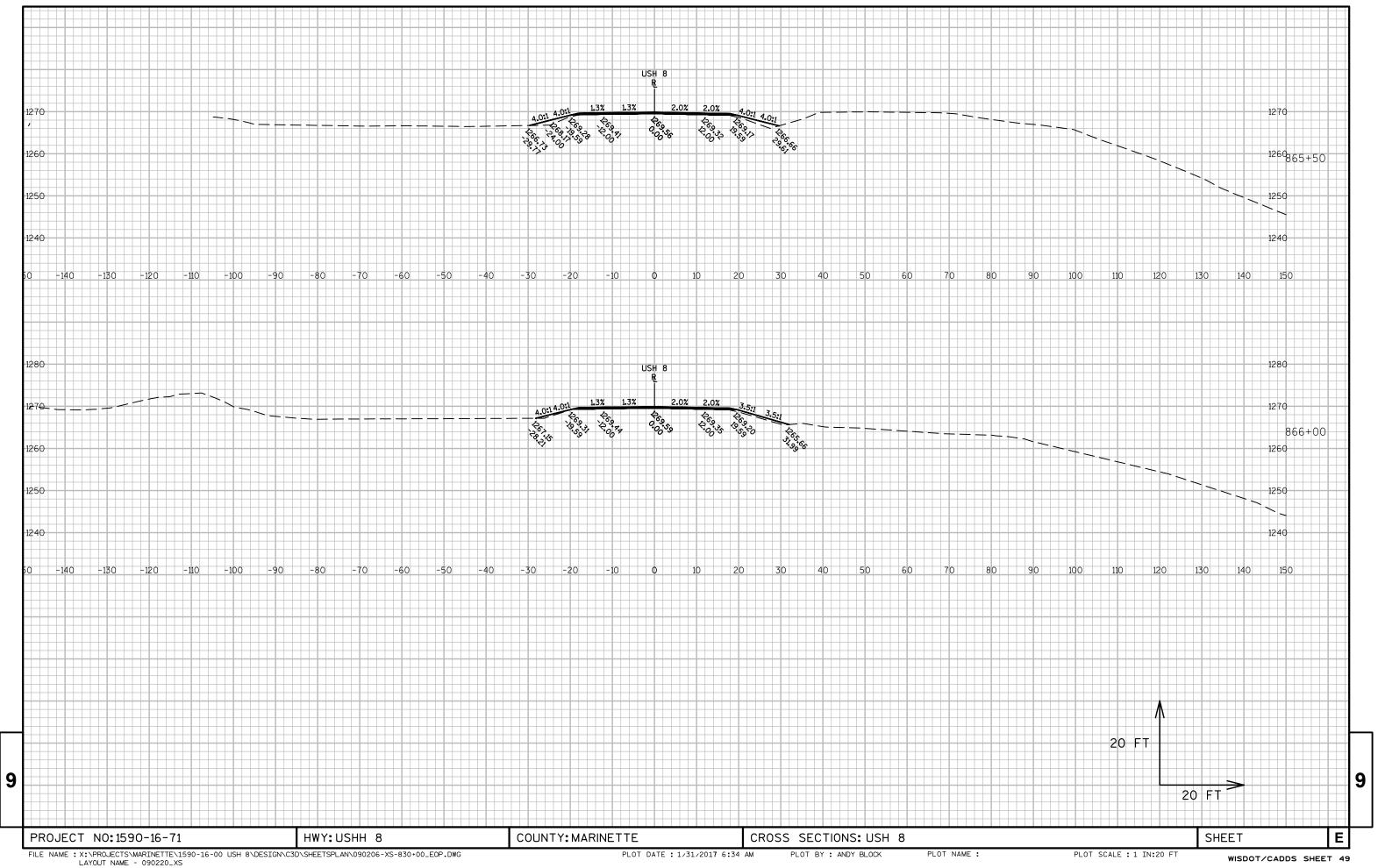


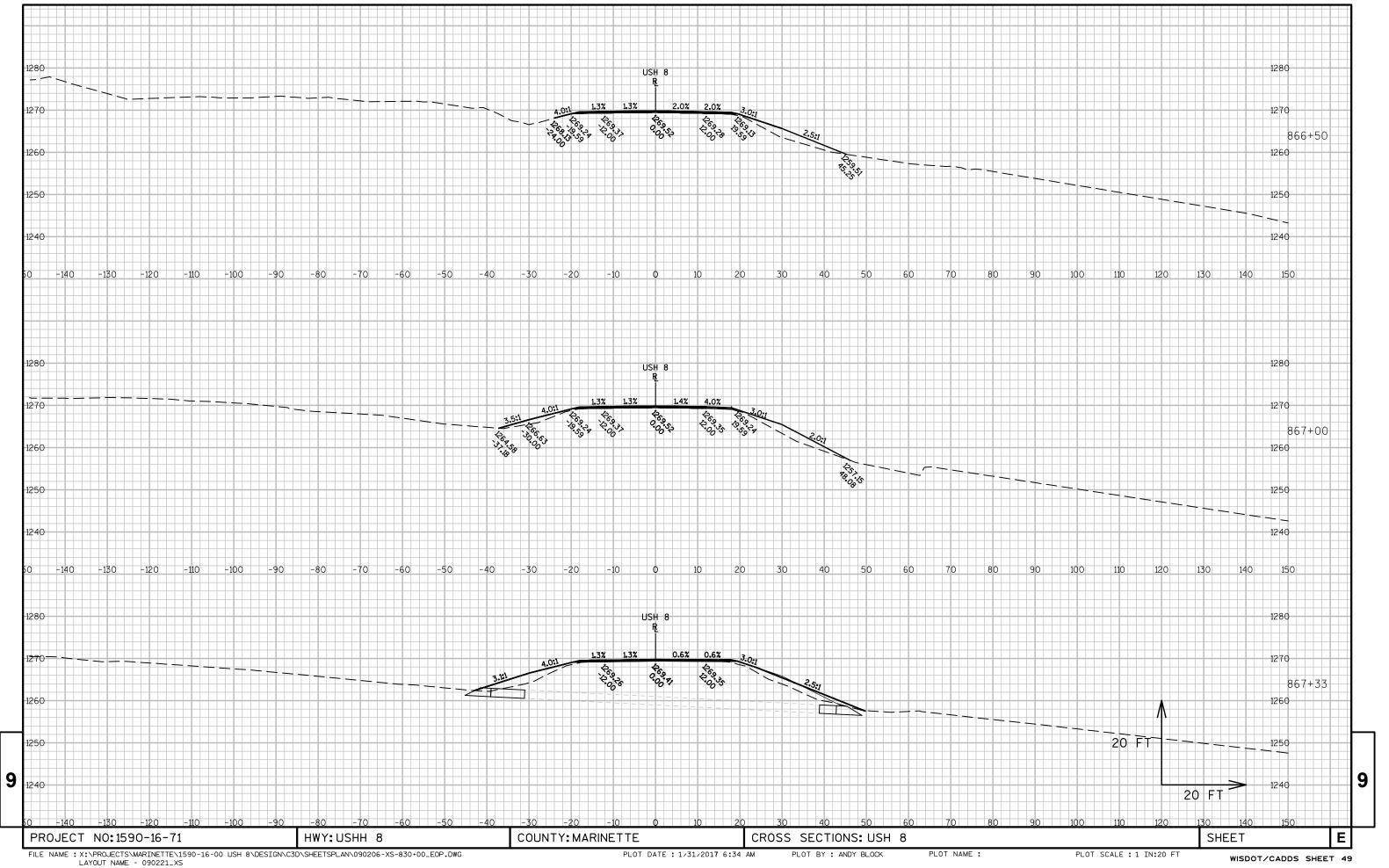


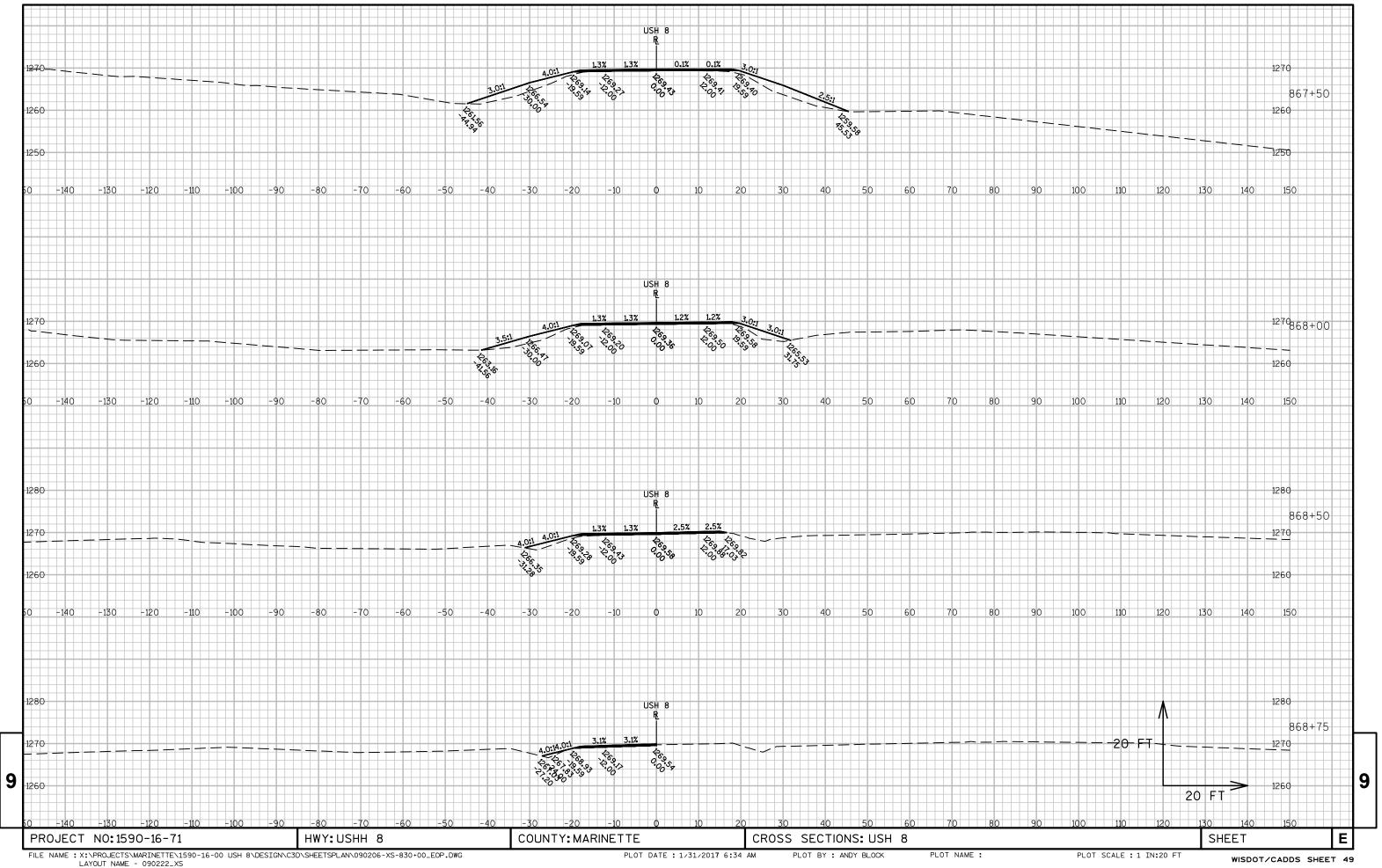


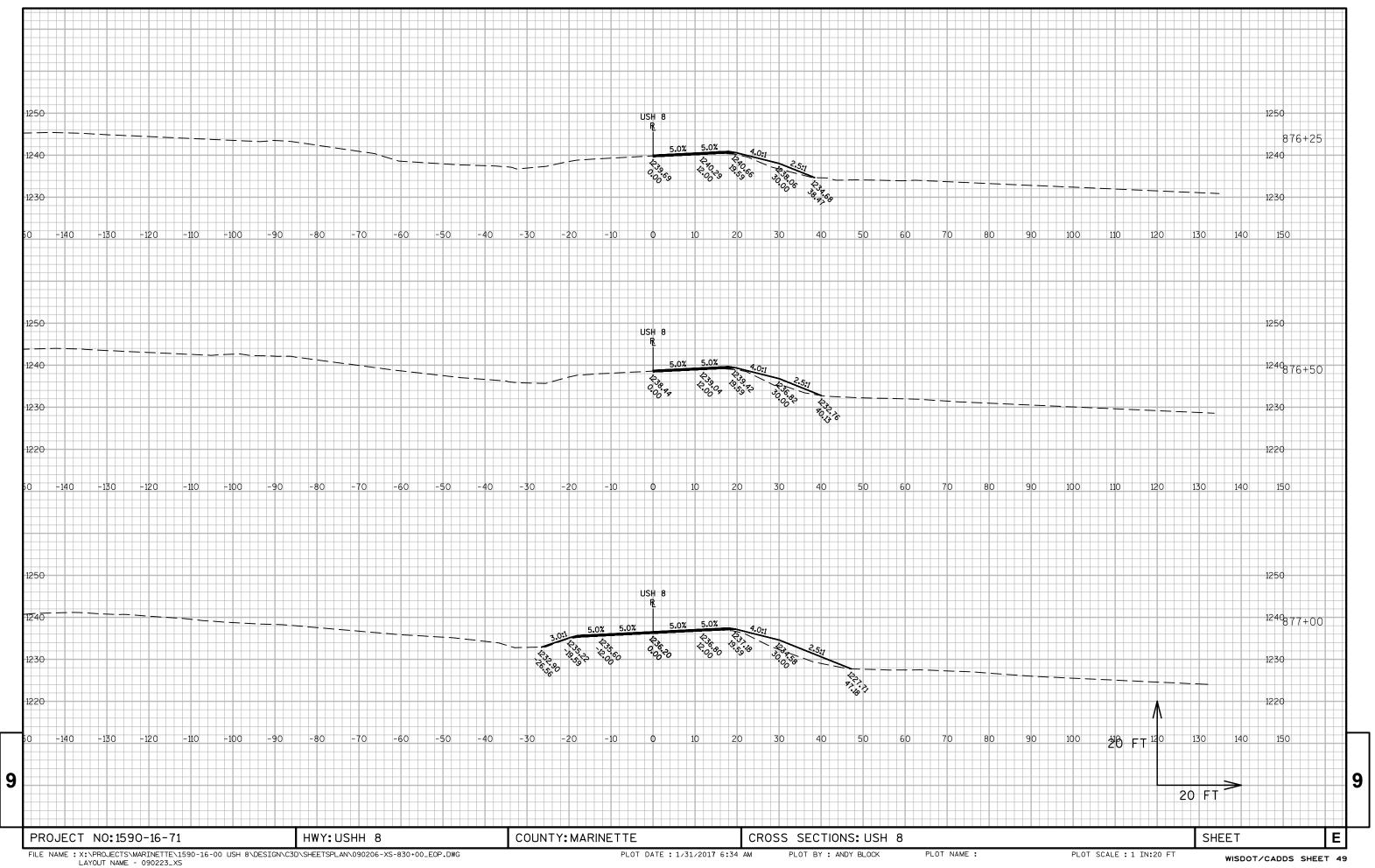


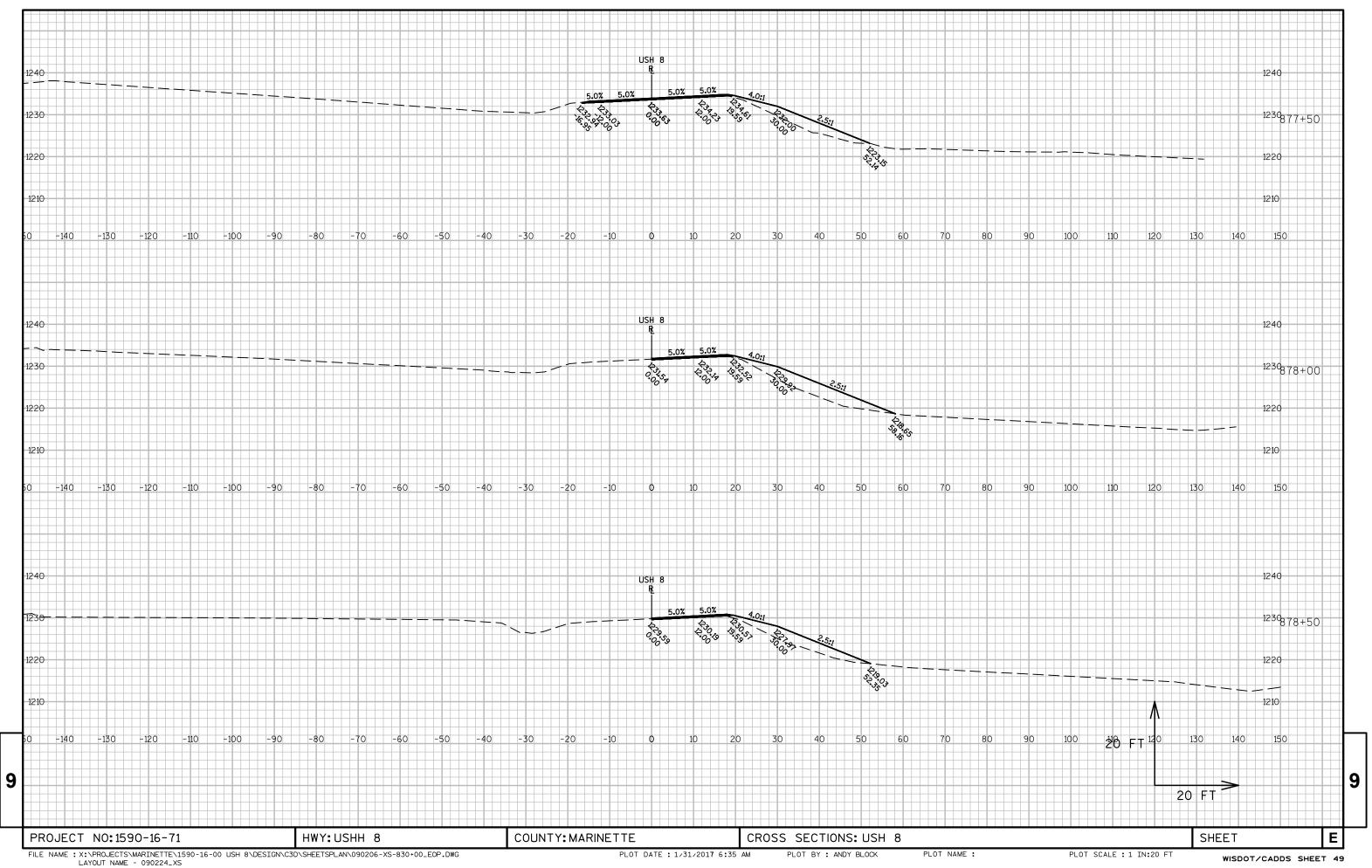


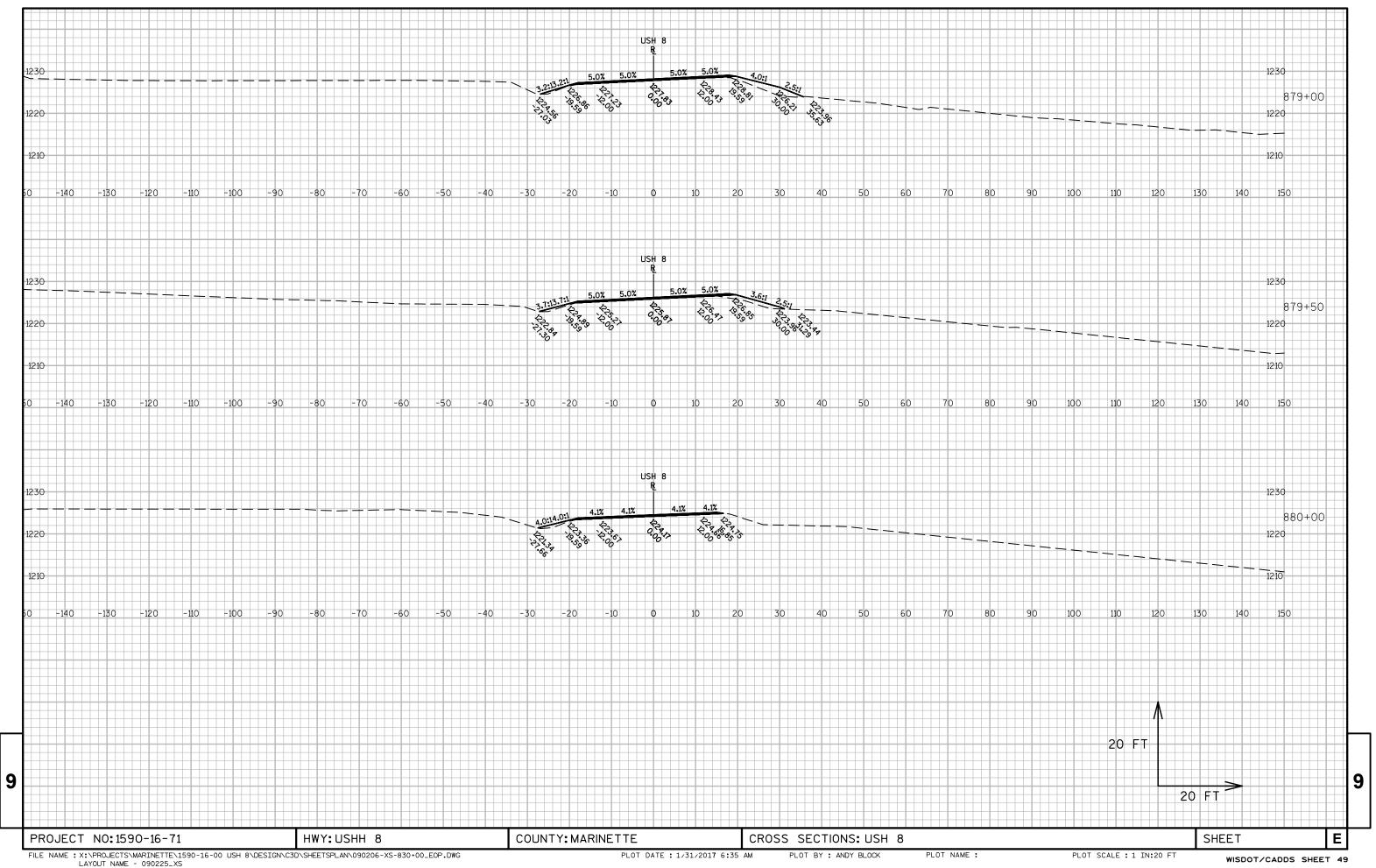


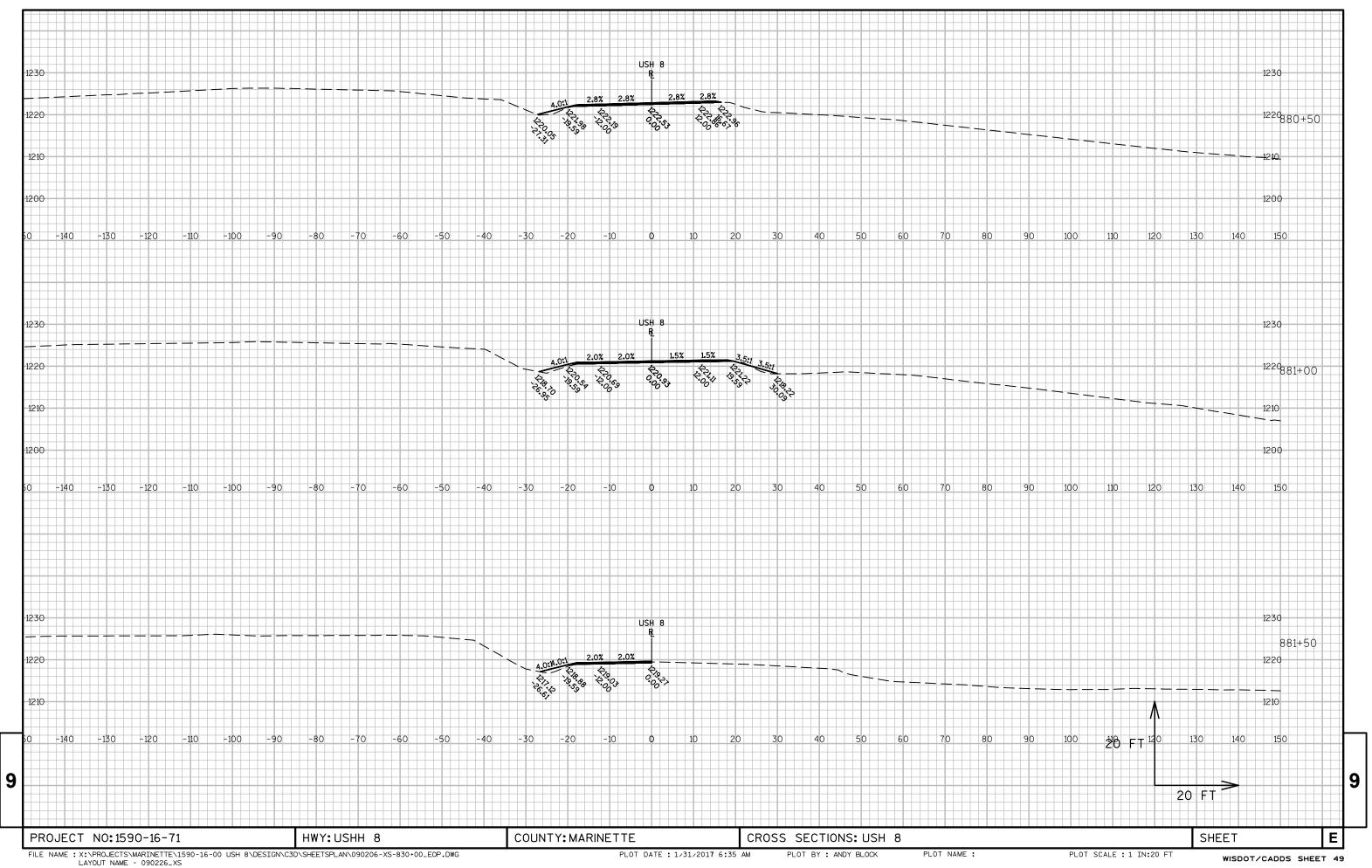


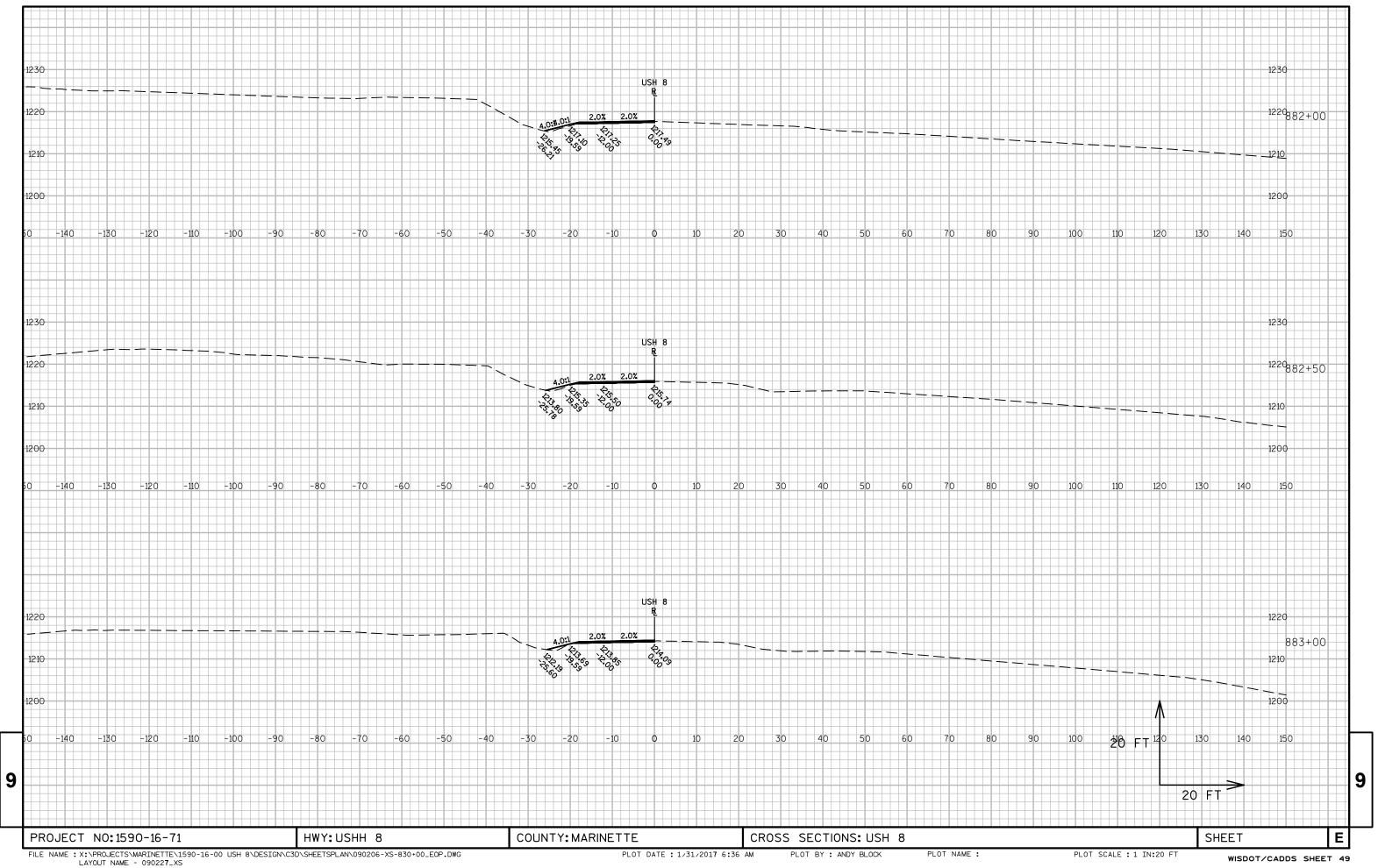


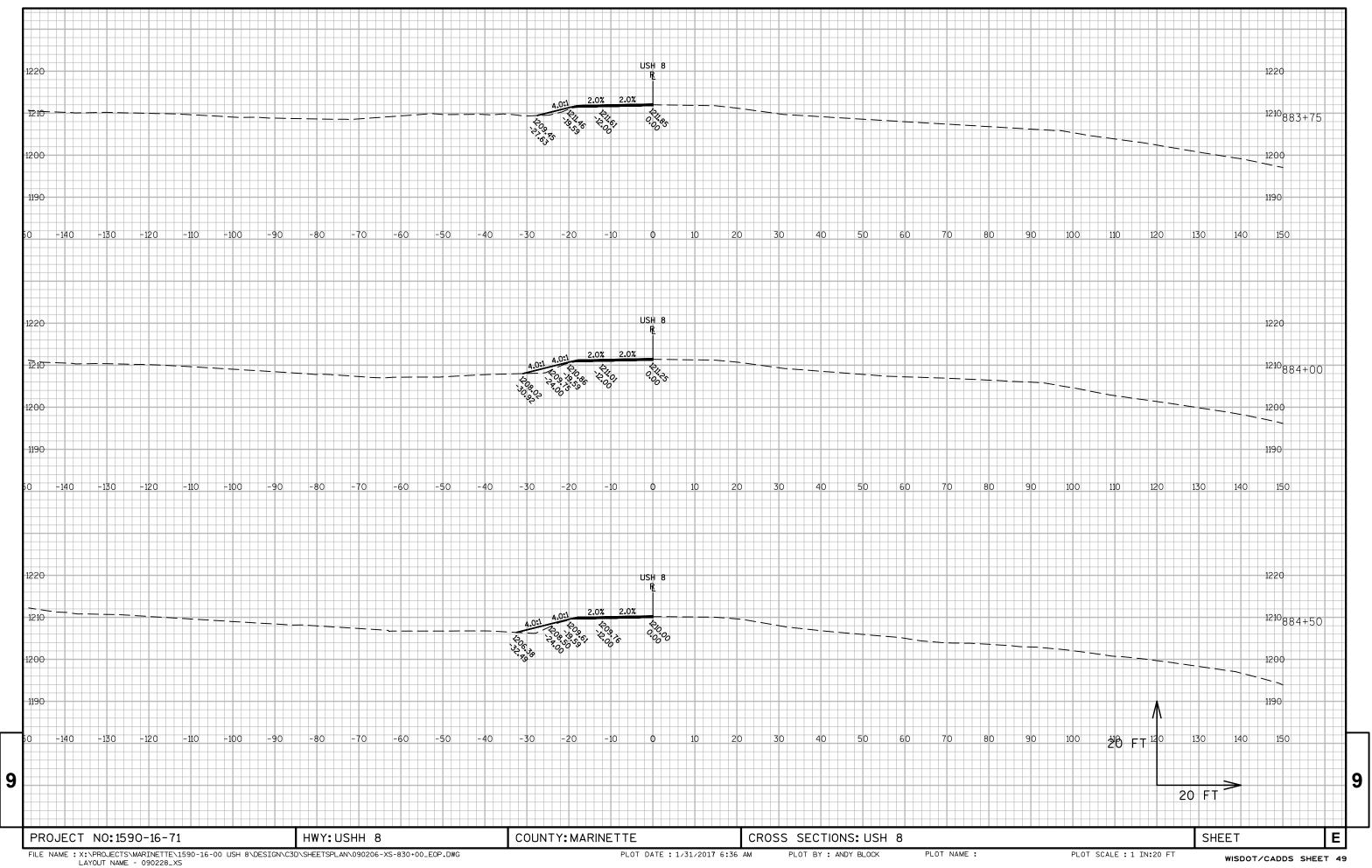


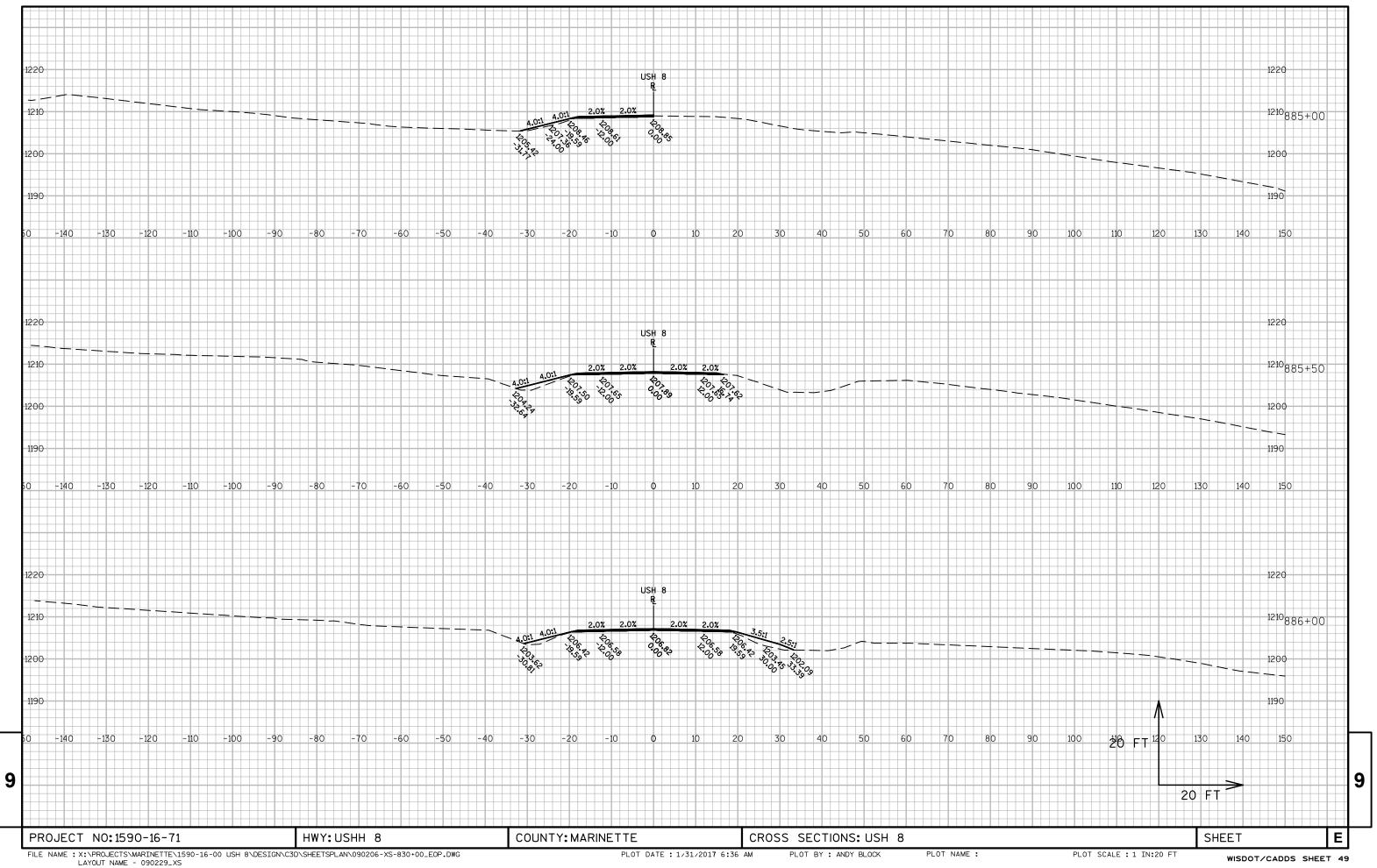


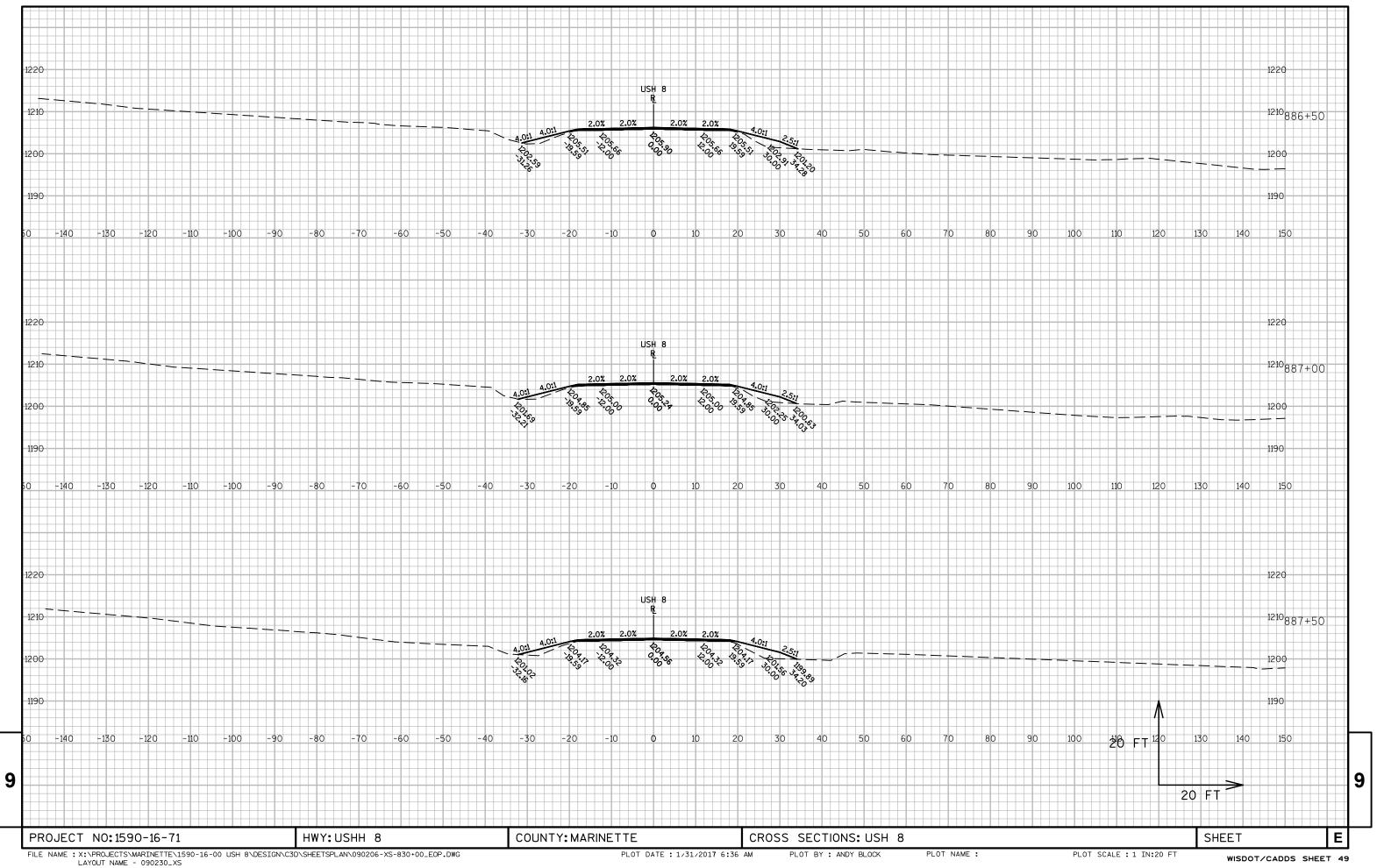


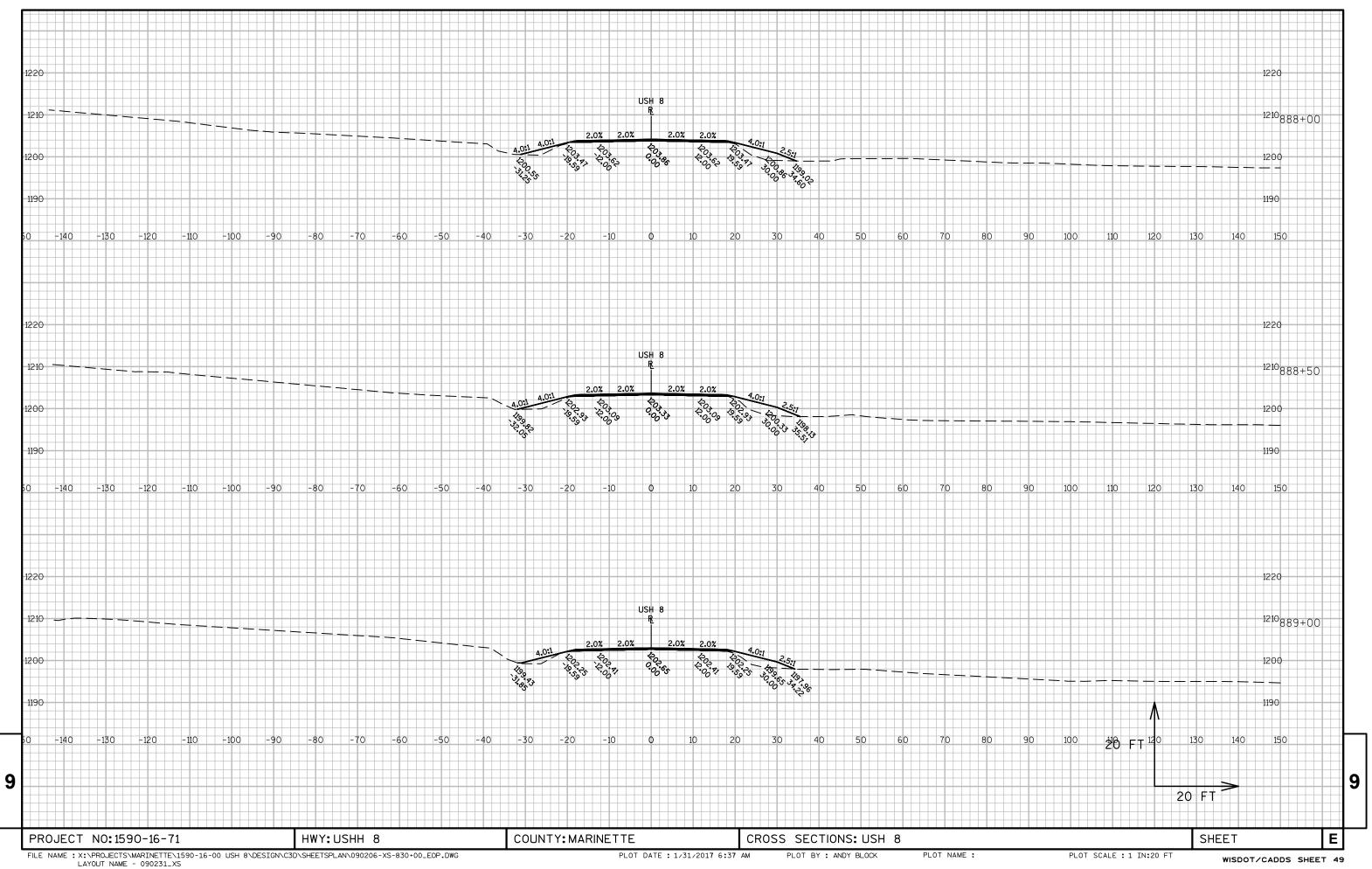


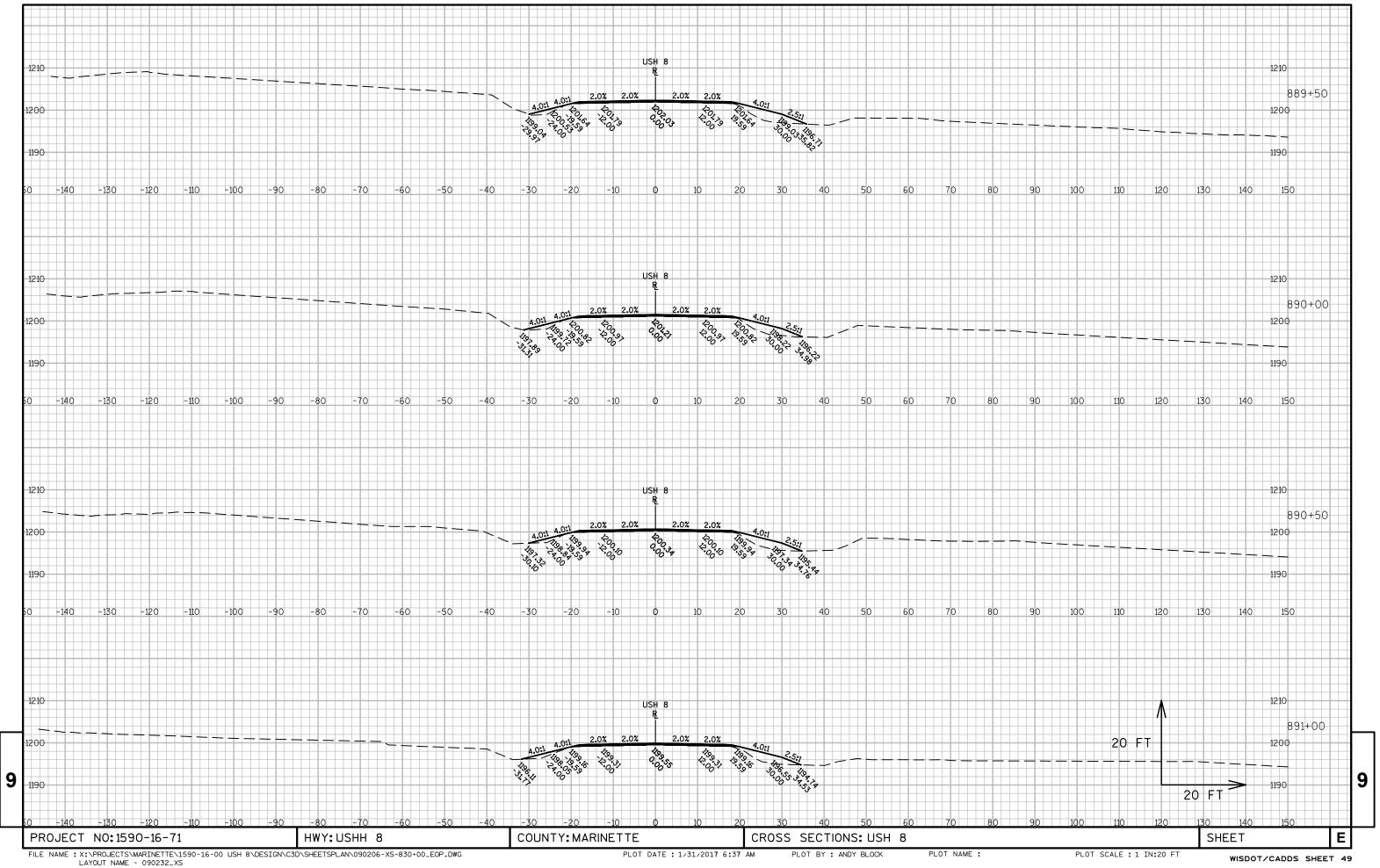


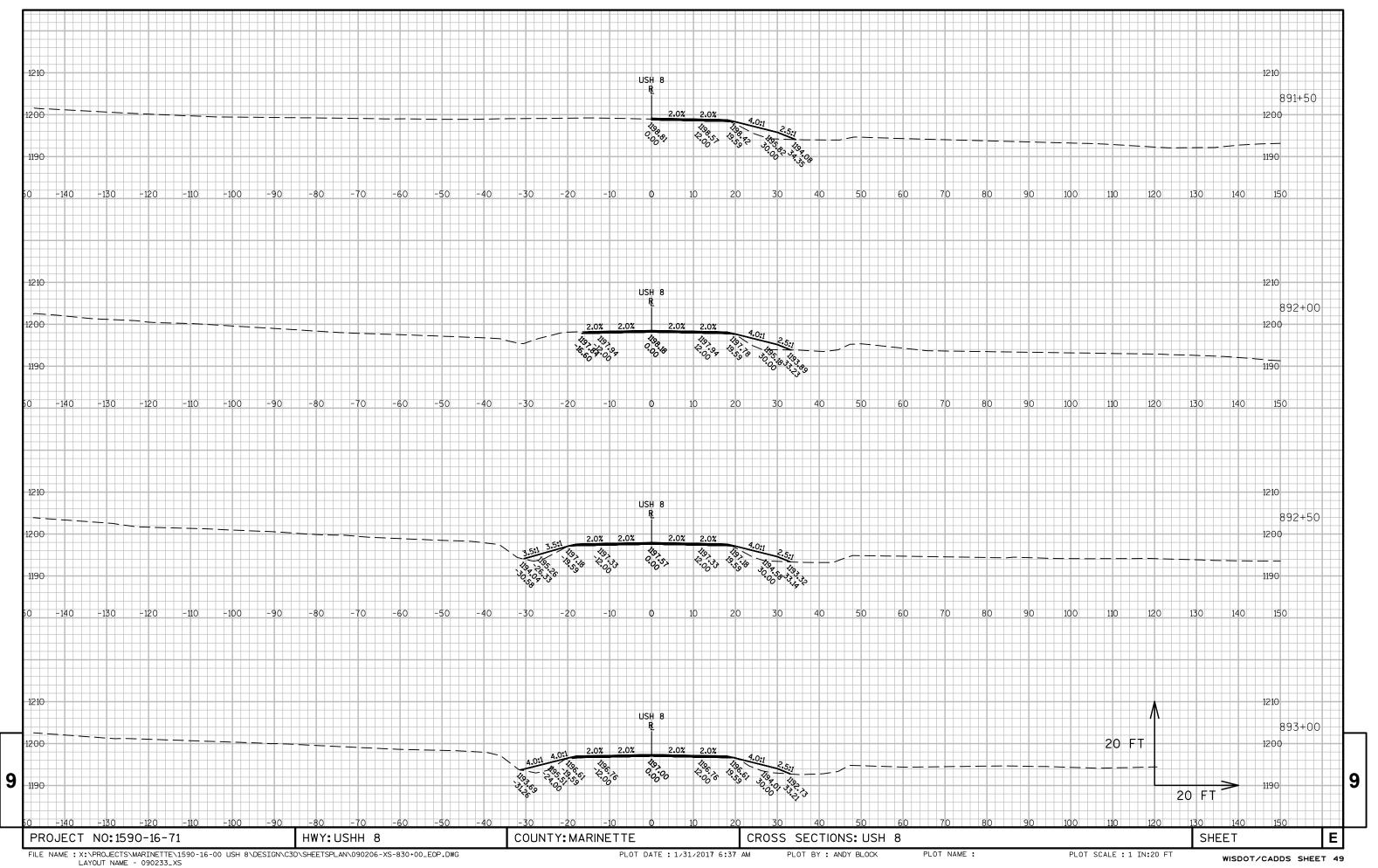


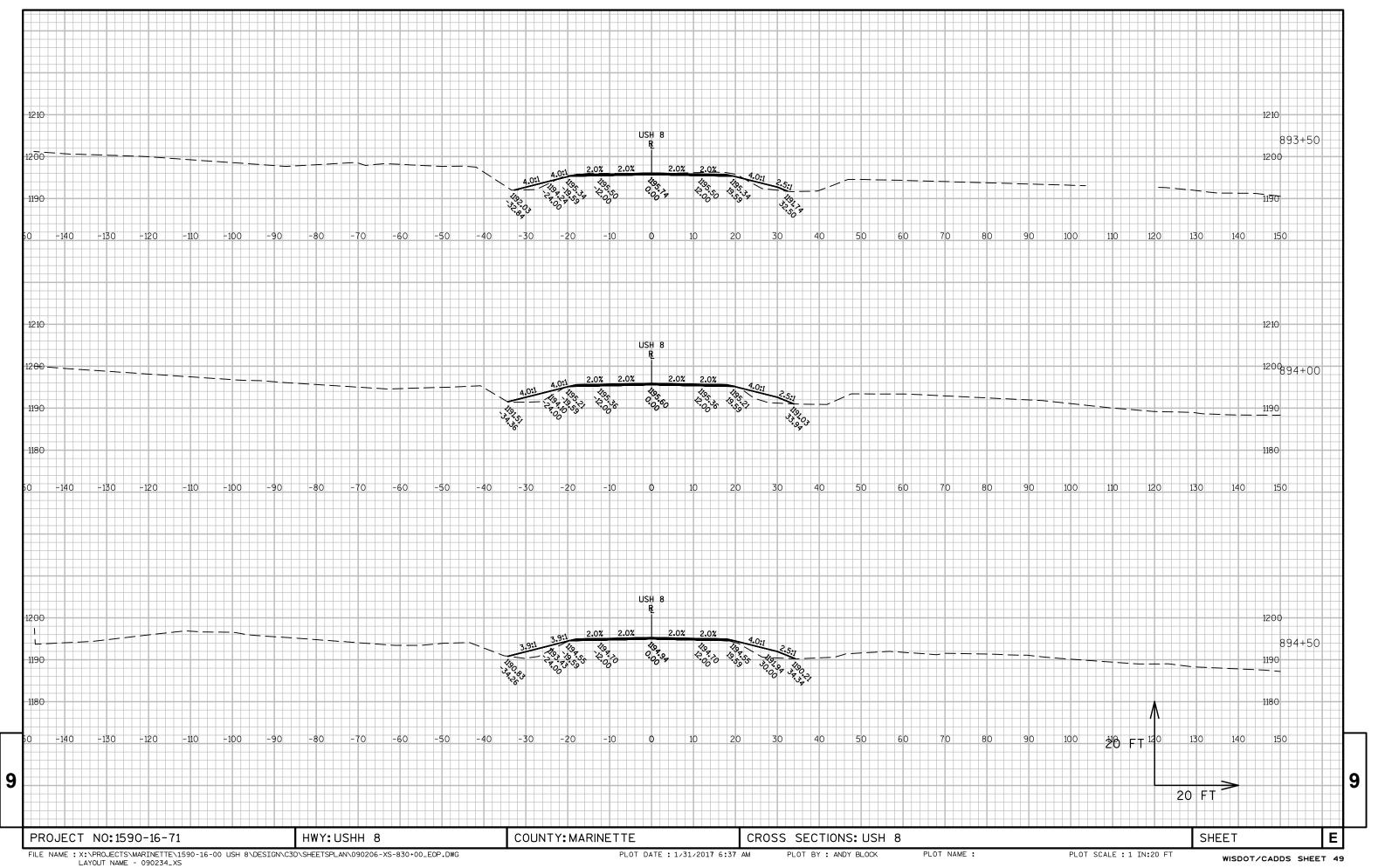


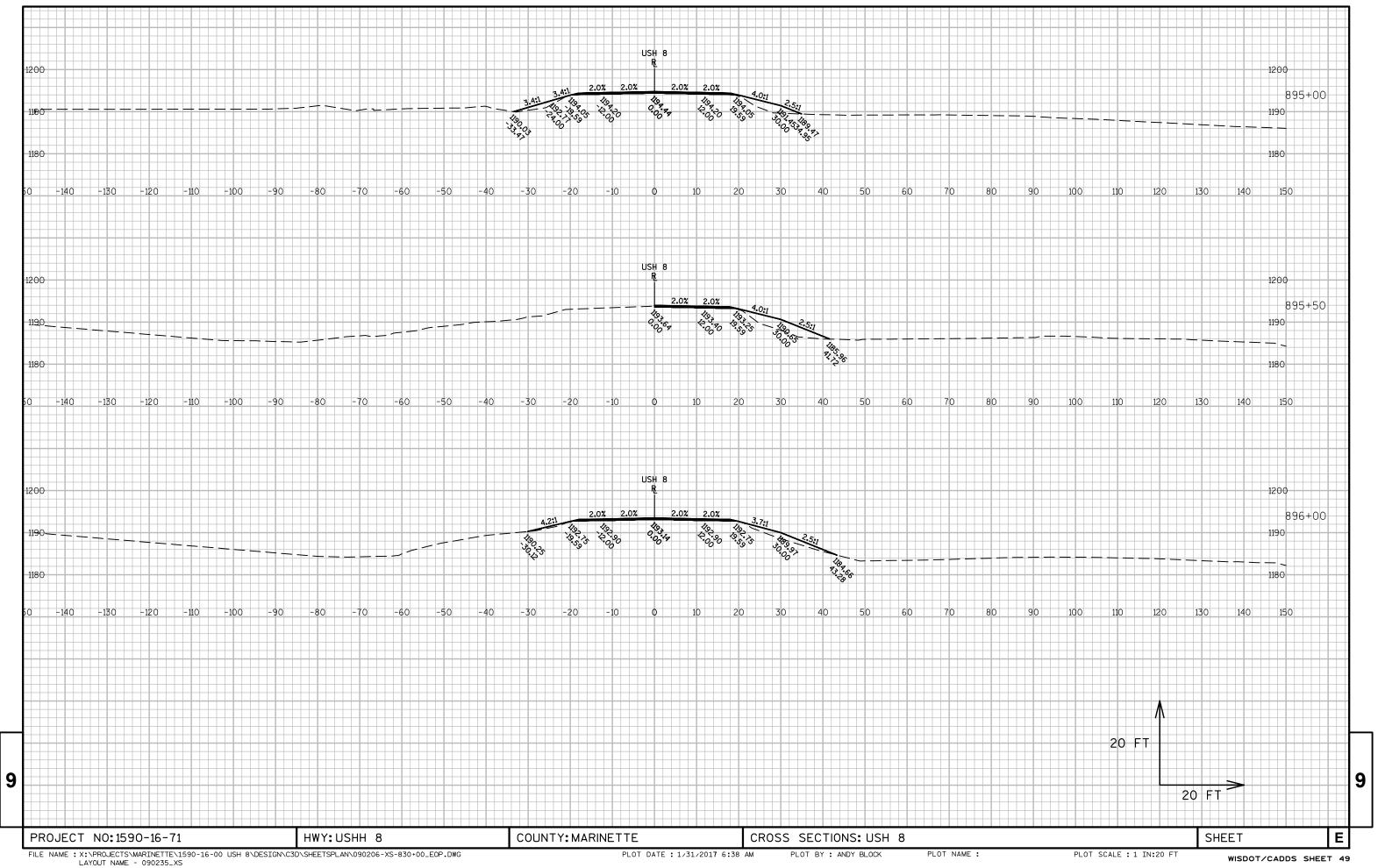


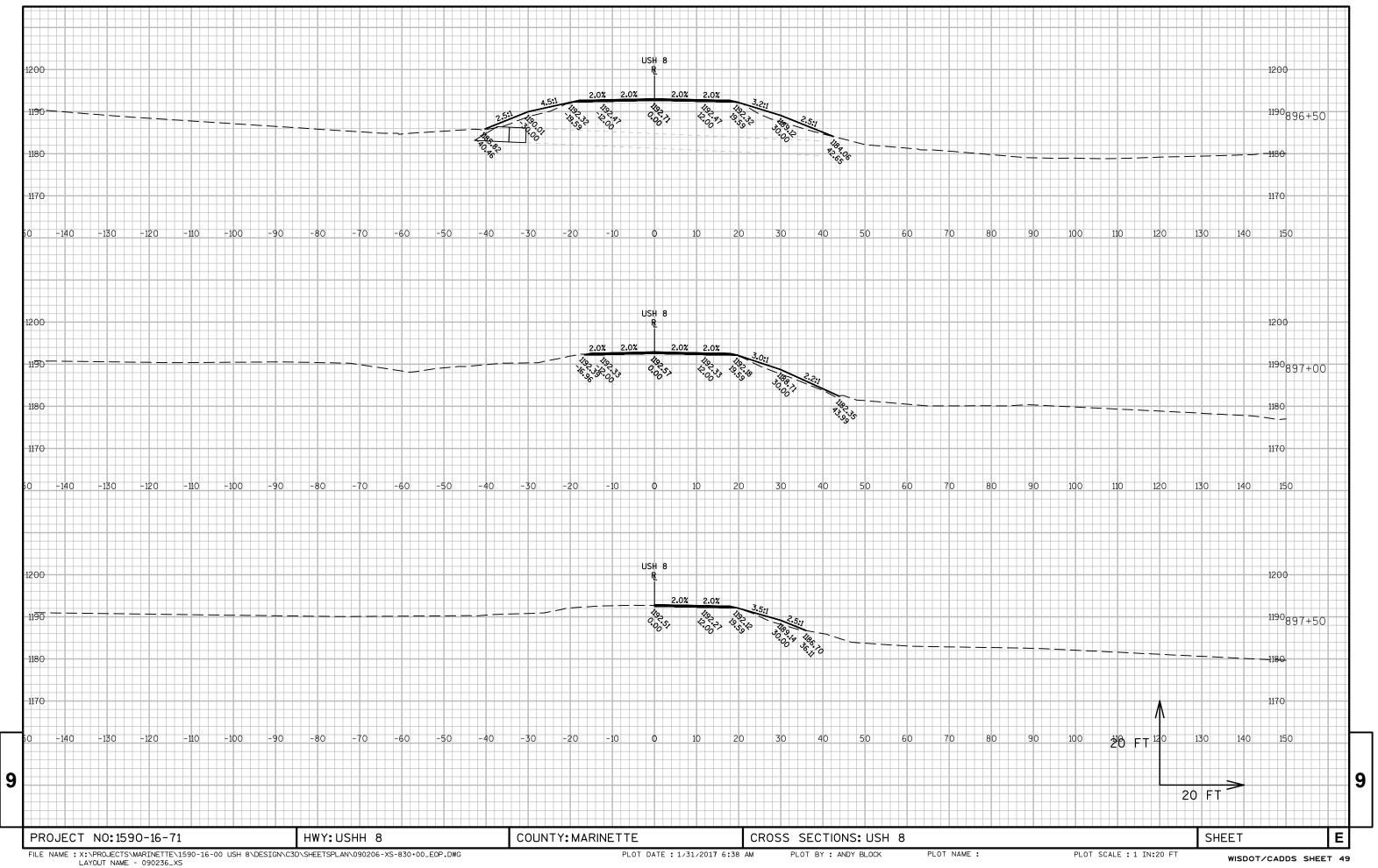


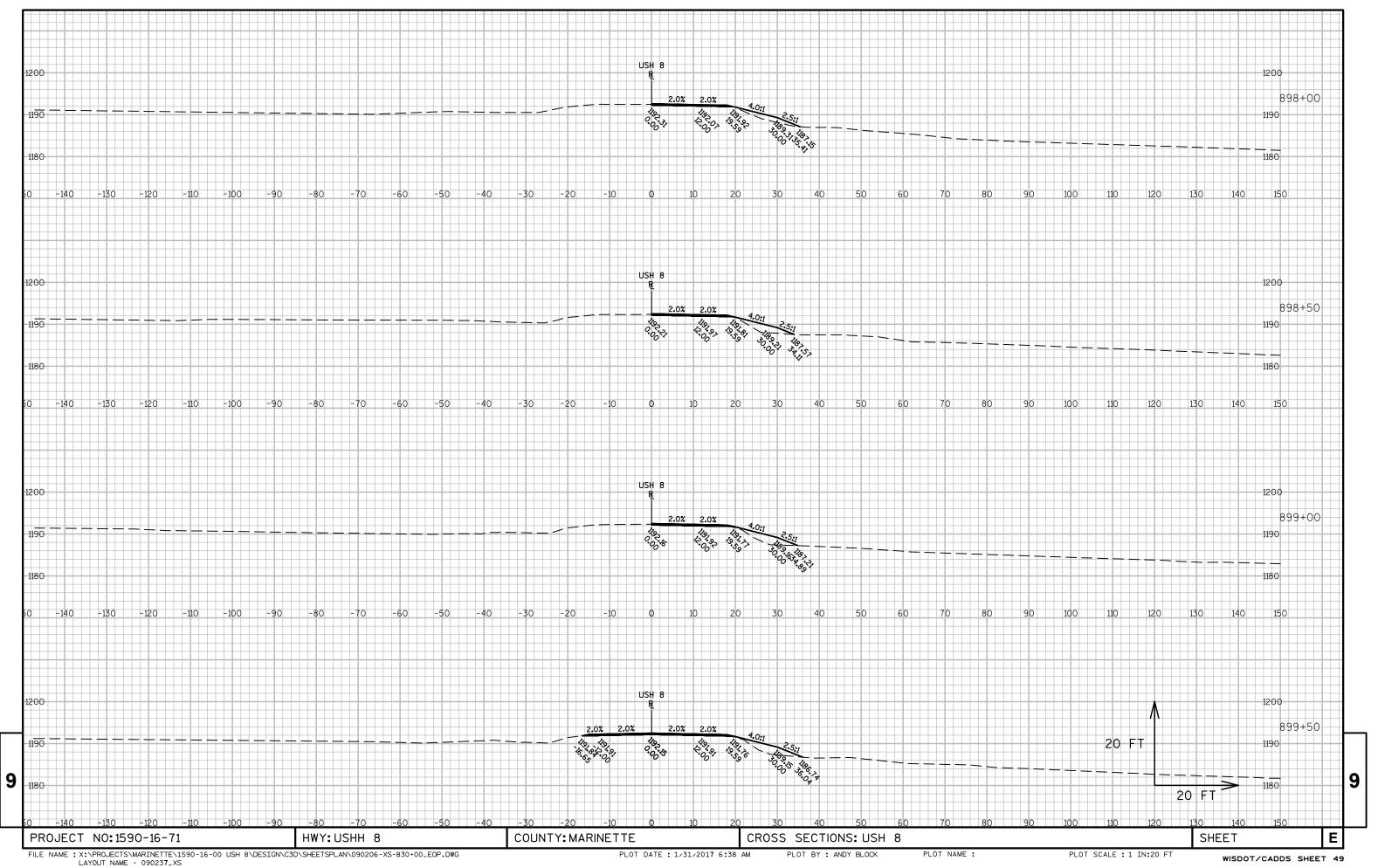


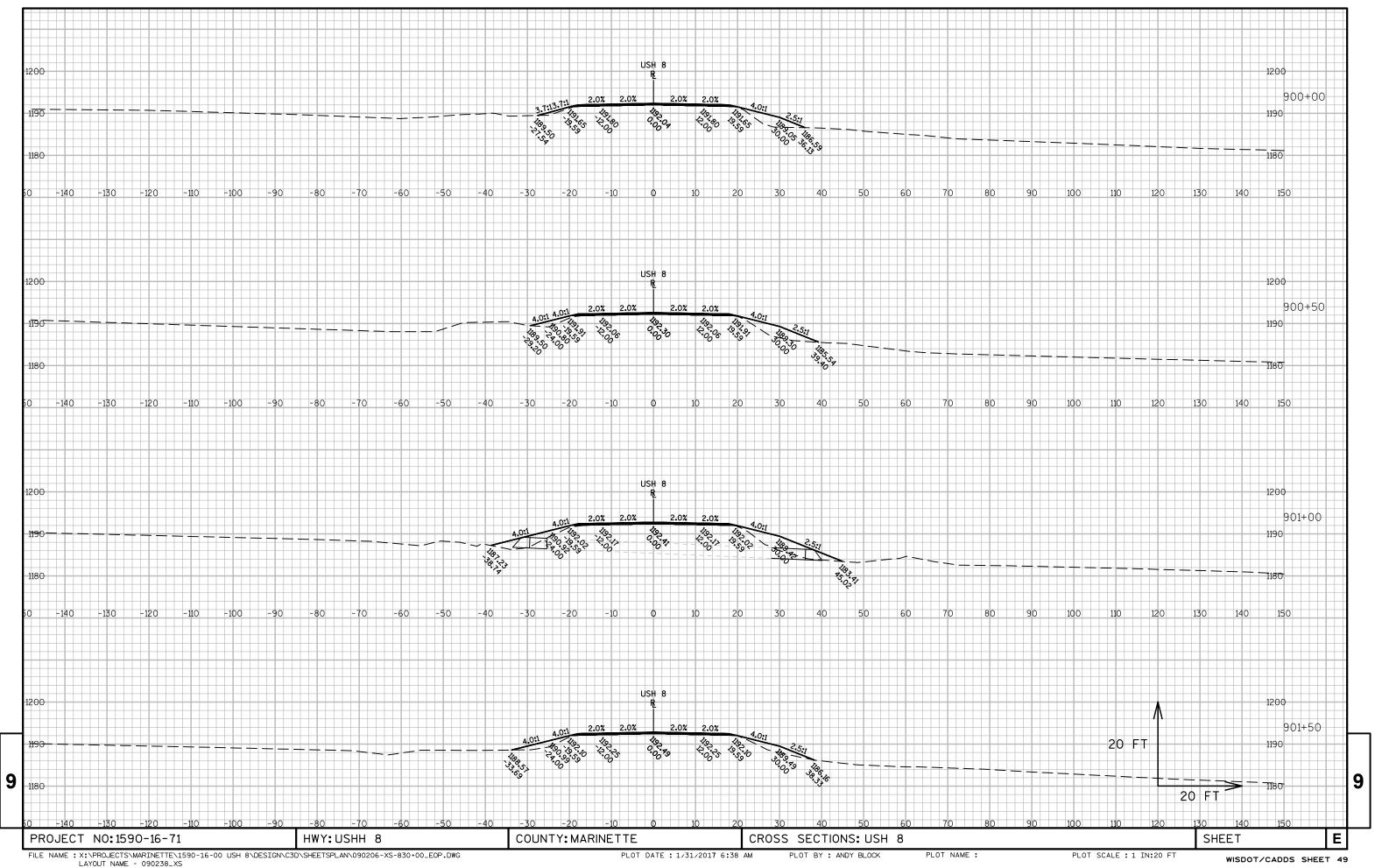


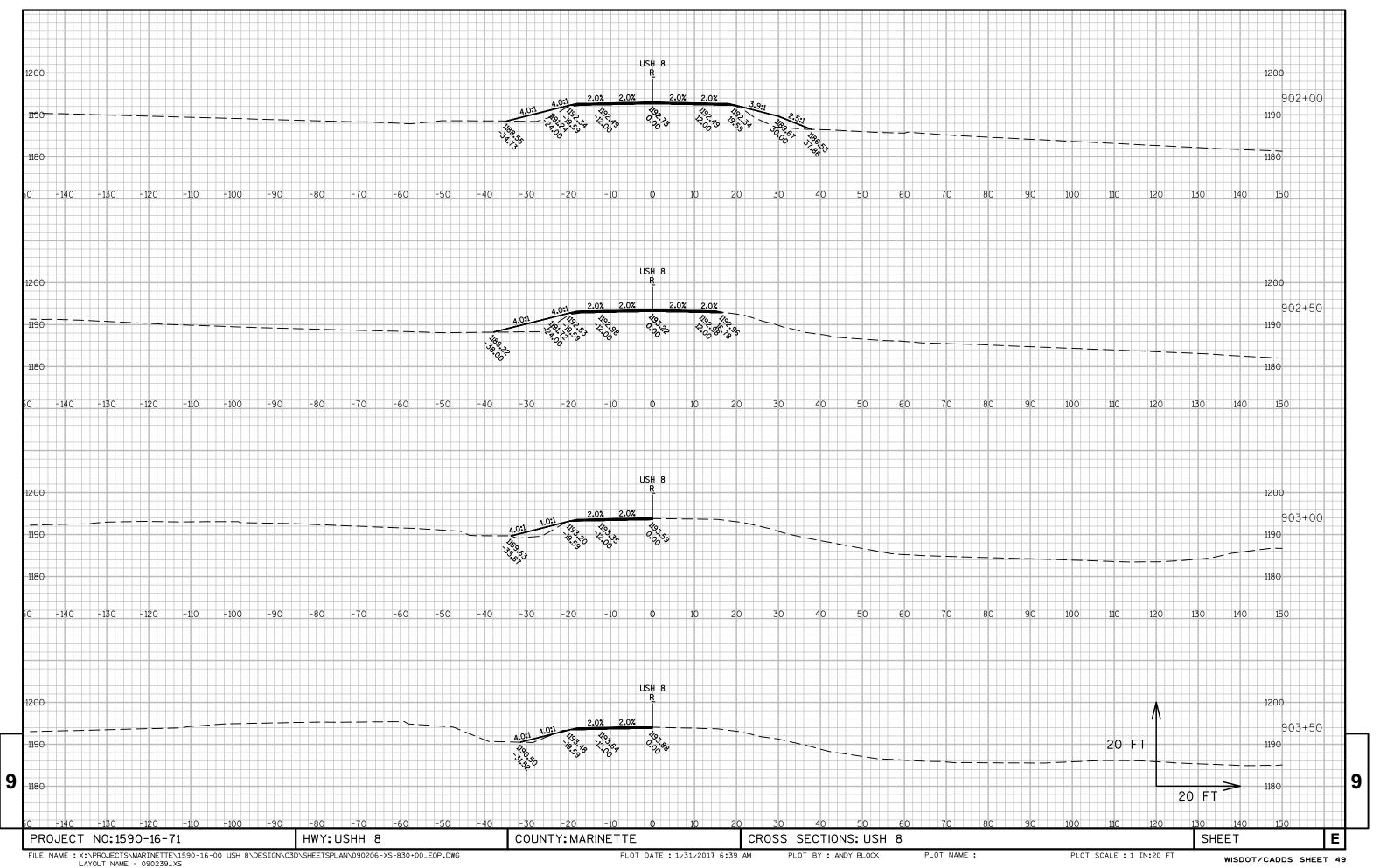


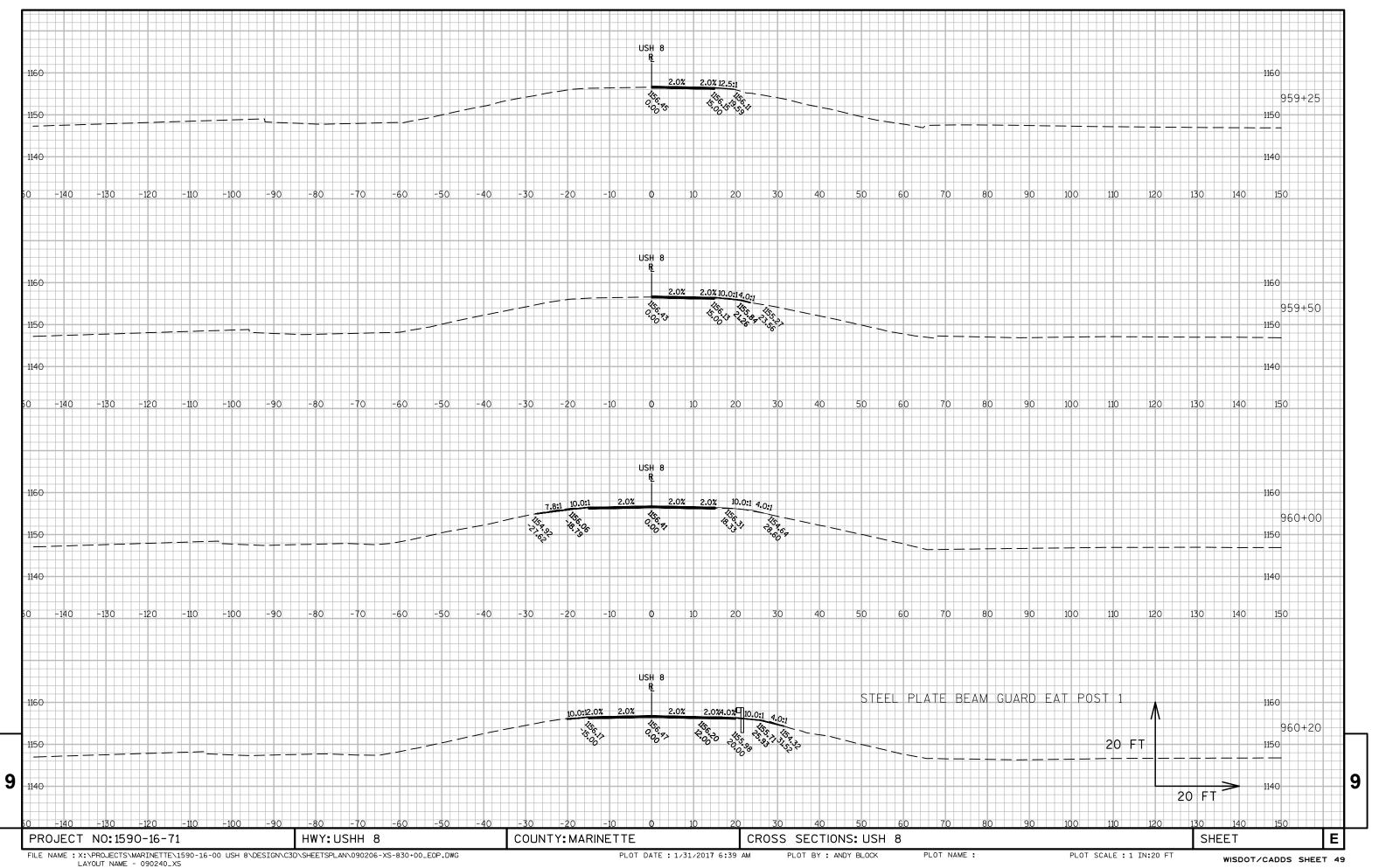


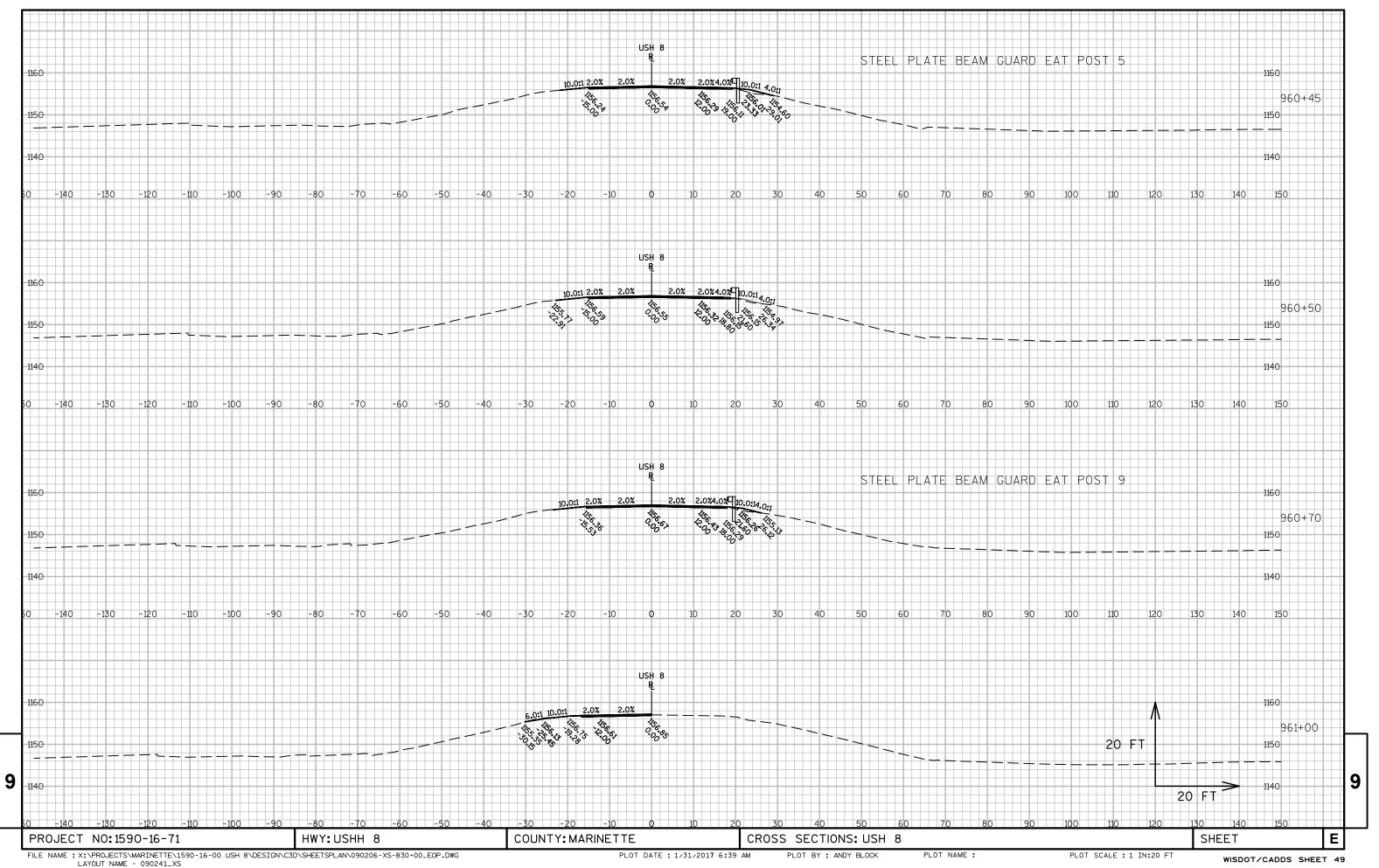


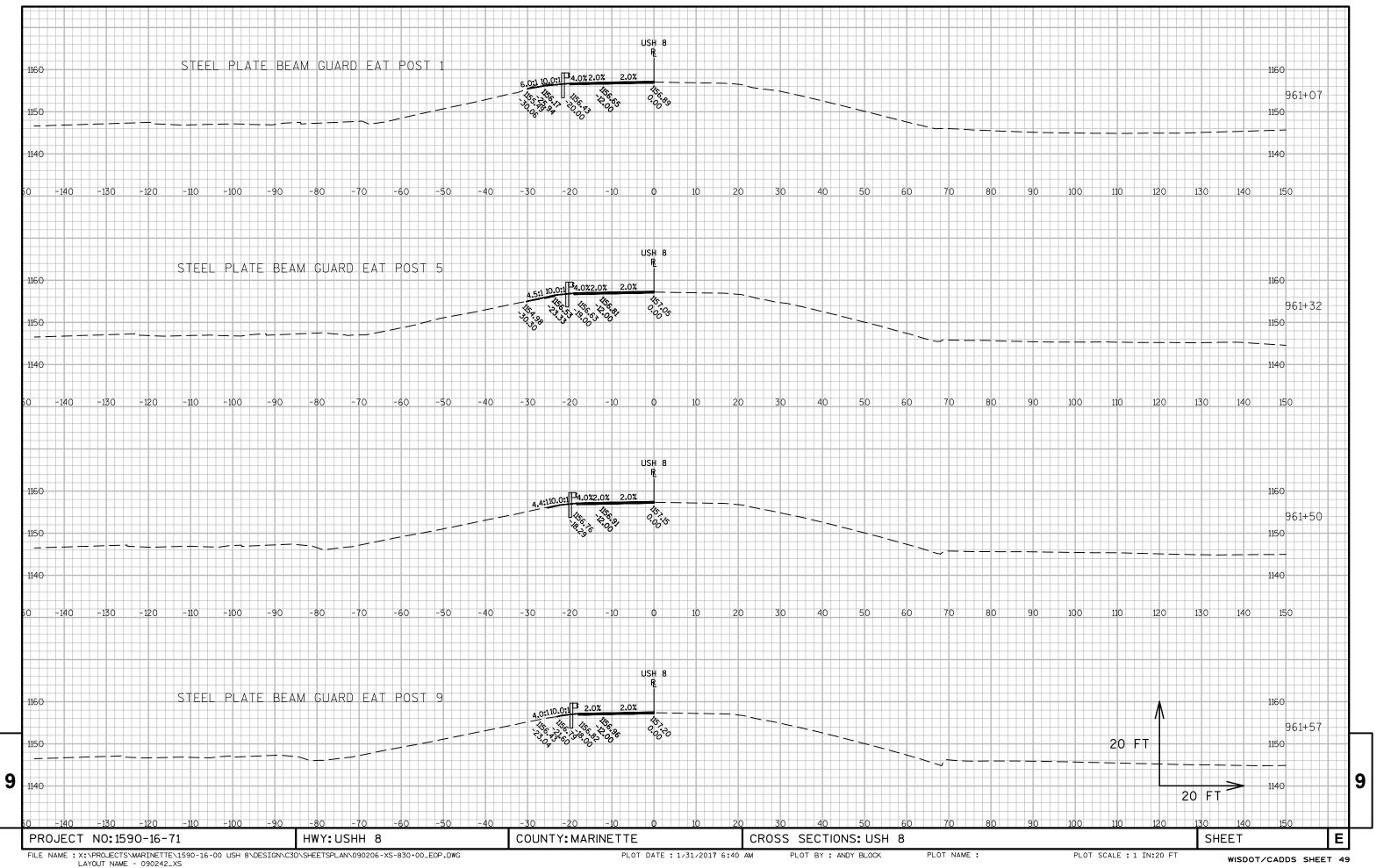


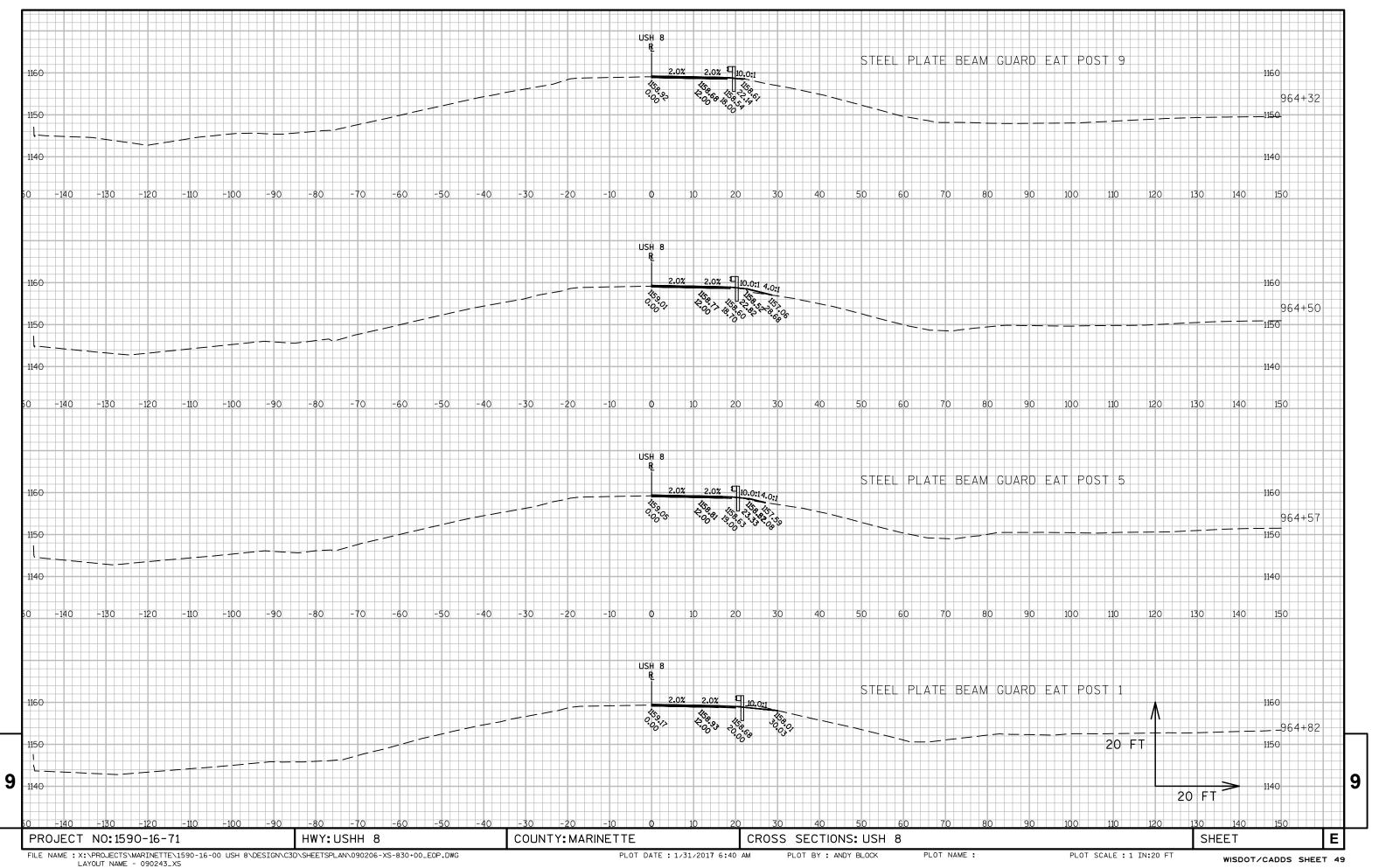


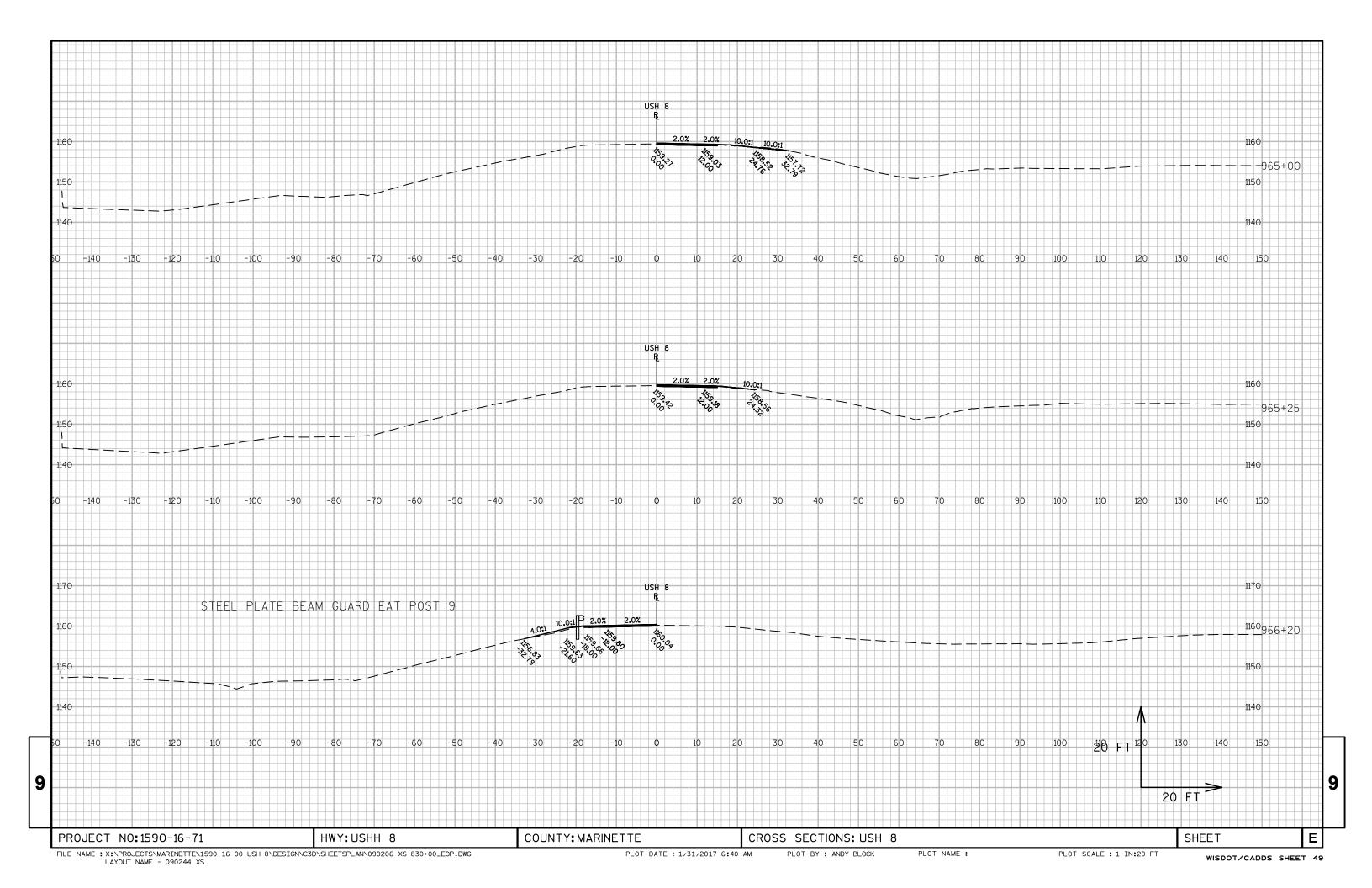


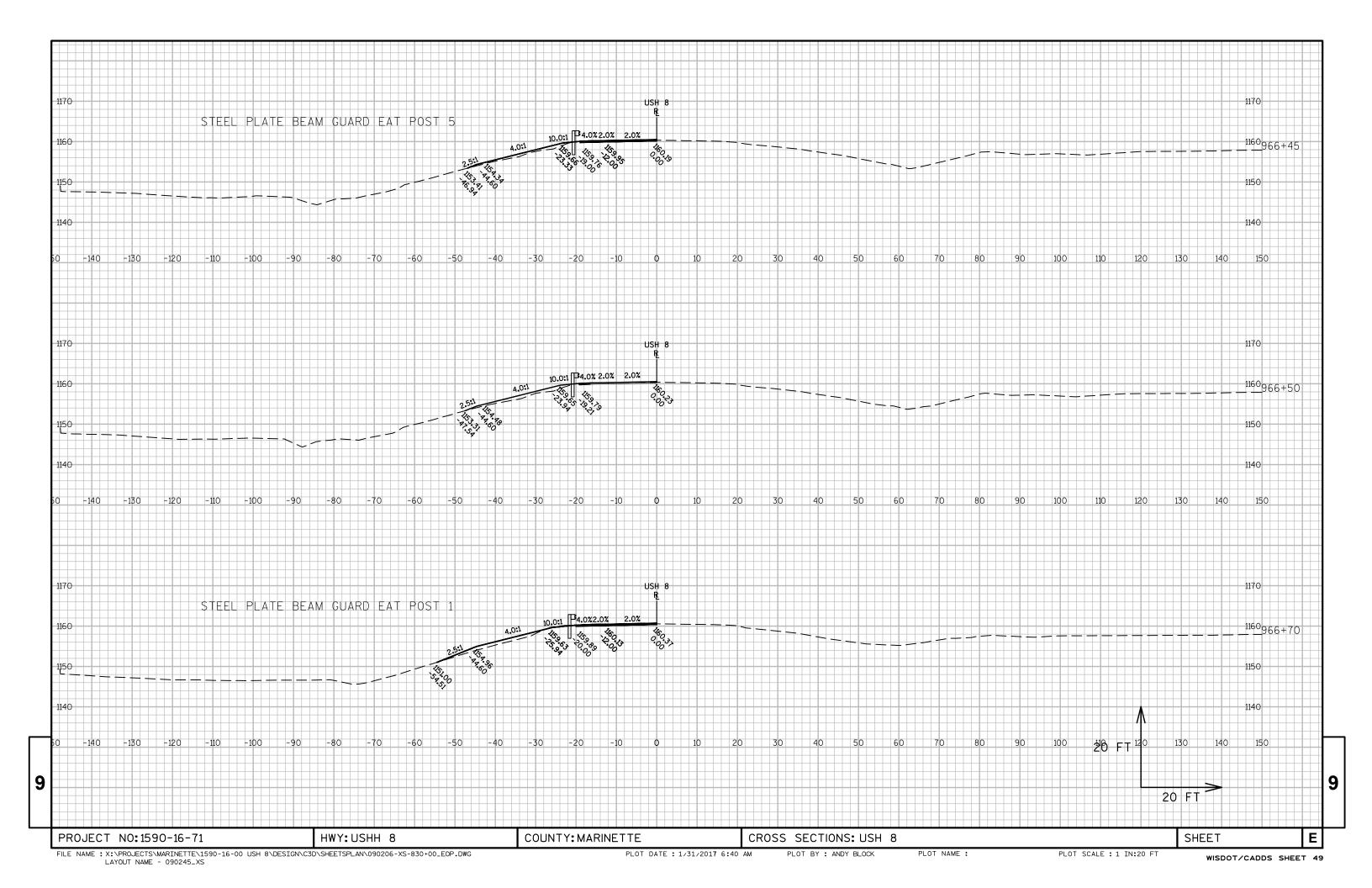


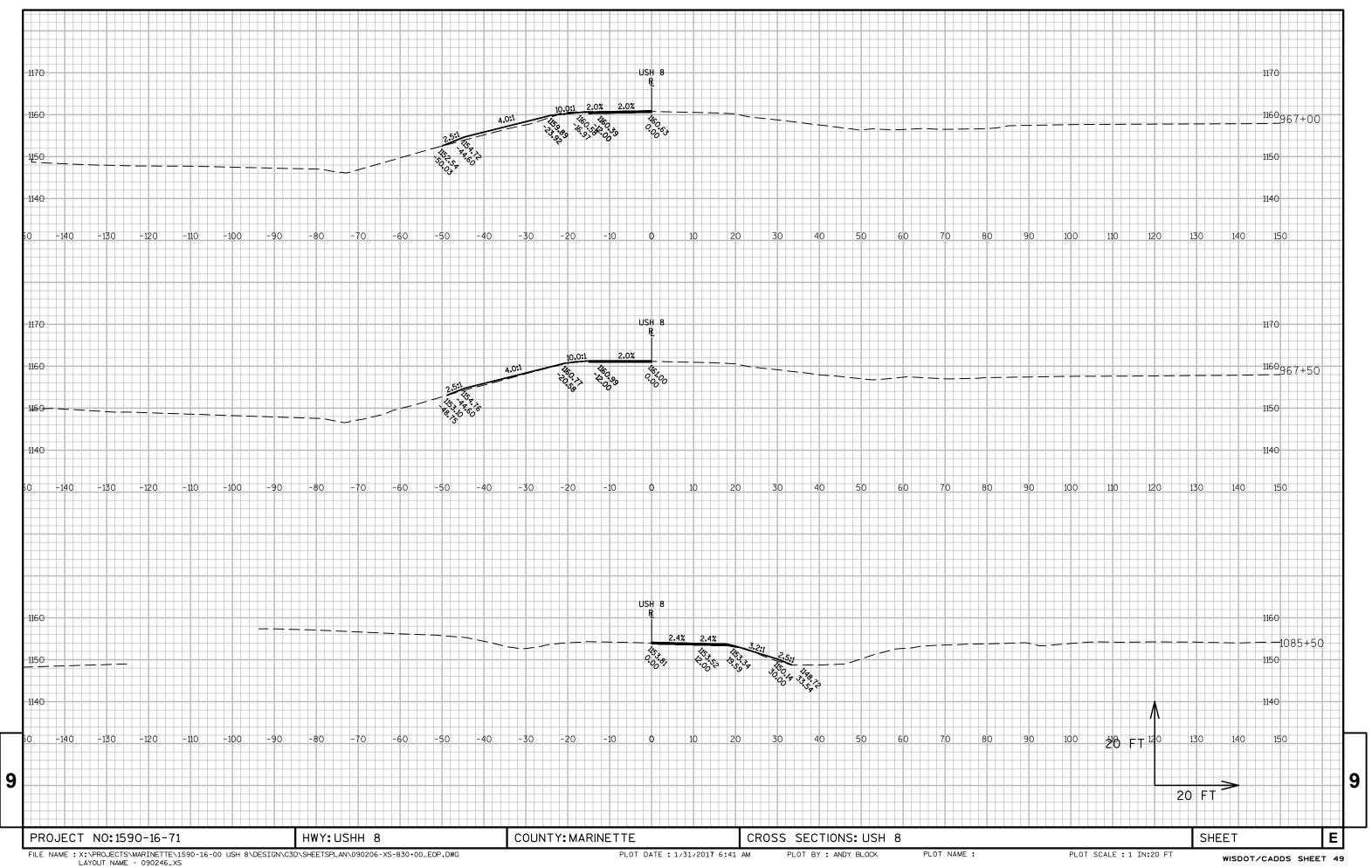


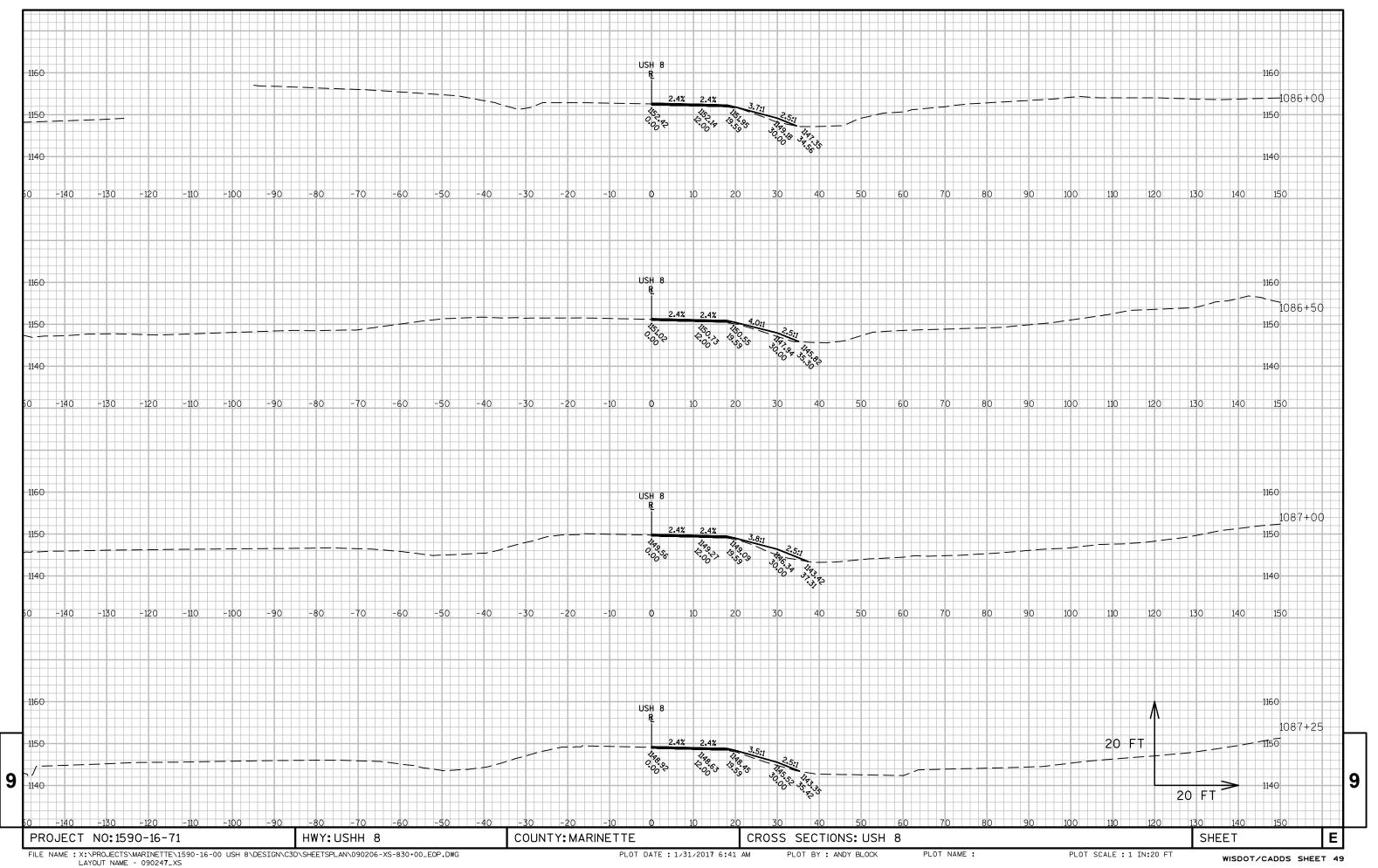


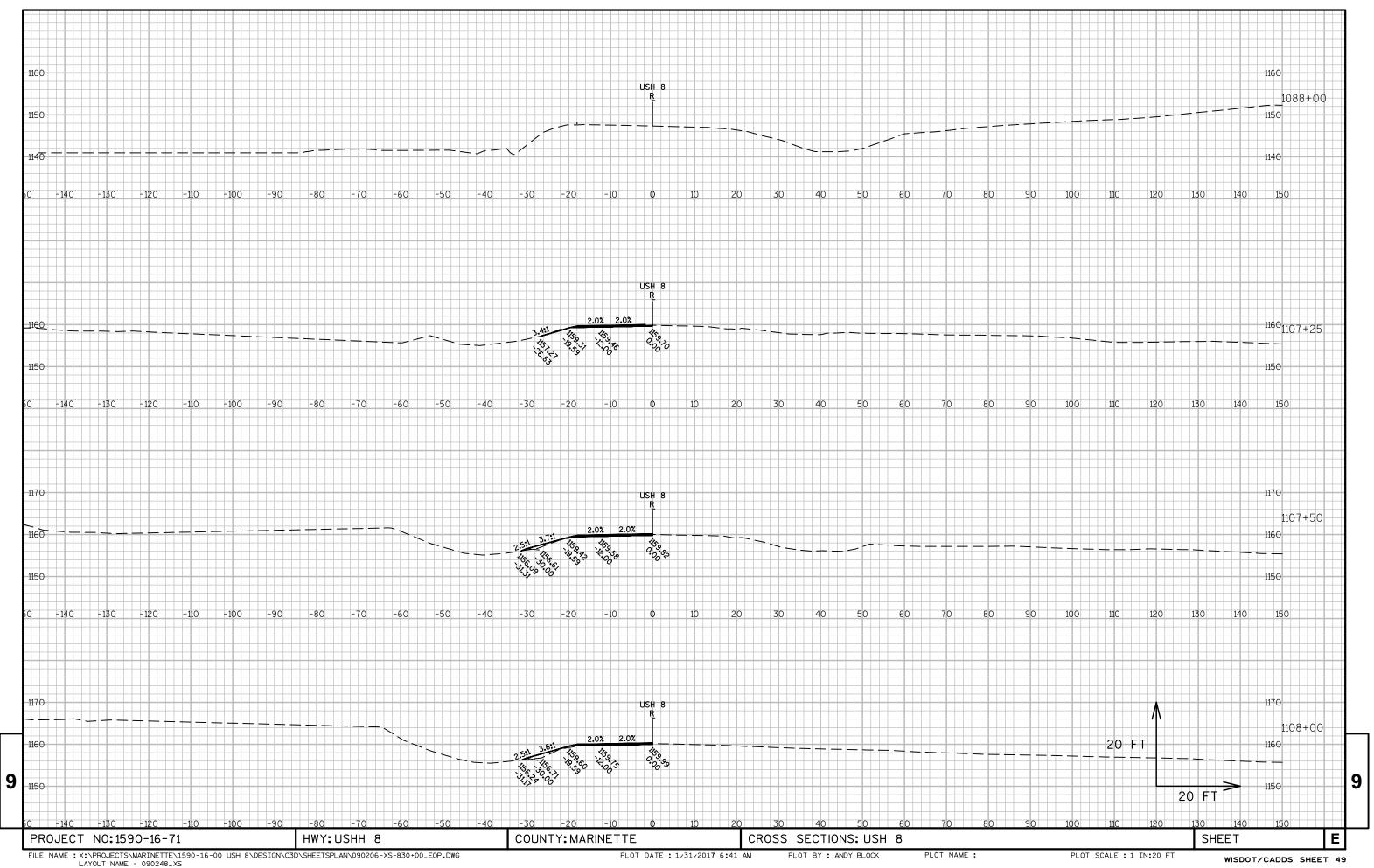


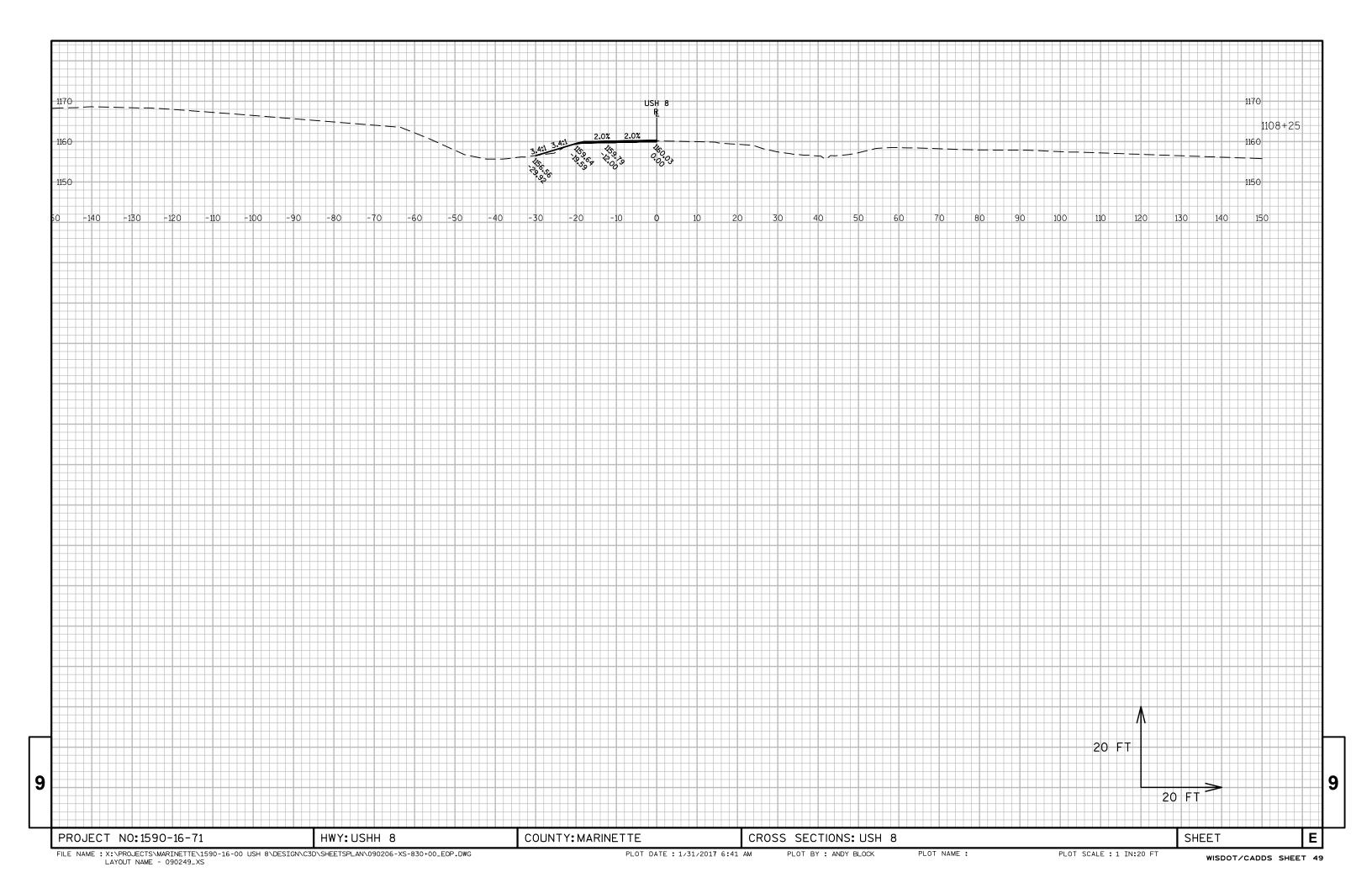












Notes



## Wisconsin Department of Transportation

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