

GENERAL NOTES

WHEN THE QUANTITY OF THE ITEMS OF BASE AGGREGATE DENSE AND ASPHALTIC SURFACE ARE MEASURED FOR PAYMENT BY THE TON, THE DEPTH OR THICKNESS OF THE LAYER SHOWN ON THE PLANS IS APPROXIMATE AND THE ACTUAL THICKNESS WILL DEPEND ON THE DISTRIBUTION OF THE MATERIAL AS DIRECTED BY THE ENGINEER.

PURSUANT TO CHAPTER 59 OF THE WISCONSIN STATUTES, THE CONTRACTOR SHALL CAREFULLY MAKE A SEARCH FOR EVIDENCE OF ALL LANDMARKS, BENCHMARKS, AND OTHER CONTROL POINTS IN ALL AREAS WHERE SUCH LANDMARKS, BENCHMARKS, OR OTHER CONTROL POINTS MAY EXIST.

THE CONTRACTOR SHALL PROTECT ALL SURVEY MARKERS. SURVEY MARKERS SHALL NOT BE REMOVED WITHOUT THE APPROVAL OF THE ENGINEER.

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

ALL WASTE MATERIAL RESULTING FROM THE VARIOUS CONSTRUCTION OPERATIONS SHALL BE ENTIRELY REMOVED AND PROPERLY DISPOSED OF IMMEDIATELY OR AS DIRECTED BY THE ENGINEER.

EXACT LOCATION AND LIMITS OF DRIVEWAY ENTRANCES ARE TO BE DETERMINED BY THE ENGINEER IN THE FIELD.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR RESHAPING AND RESTORATION OF, INCLUDING BUT NOT LIMITED TO: SEED, FERTILIZER, EROSION MAT OF ANY DISTURBED AREAS OUTSIDE OF THE NORMAL CONSTRUCTION LIMITS AS DETERMINED BY THE ENGINEER.

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

UTILITES HAVE NOT BEEN LOCATED ALONG THE DETOUR ROUTE. IDENTIFY THESE LOCATIONS PRIOR TO INSTALLING SIGNING ALONG THE DETOUR.

EROSION CONTROL ITEMS ARE TO BE PLACED AS SHOWN ON THE PLAN OR AS DIRECTED BY THE ENGINEER.

NO DRIVEWAY CULVERTS ARE PROPOSED TO BE REPLACED AS PART OF THIS PROJECT

ROADWAY CULVERTS SHOWN IN THE PLAN INSTALLED BY OTHERS INCLUDE +/- 20 LF OF GRADING AROUND AEW CONFORMING TO THE CROSS SECTIONS SHOWN IN THE PLAN. EARTHWORK QUANTITIES SHOWN IN PLAN INCLUDE THIS WORK BY OTHERS. CONTRACTOR SHALL TIE INTO THESE AREAS AND RESTORE DISTURBED AREAS.

THE ALIGNMENT IN THE PULVERIZE AND RELAY SECTION IS BASED ON THE ORIGINAL AS BUILT PLAN. PROFILE ELEVATION OF THE ROADWAY CENTERLINE MAY DEVIATE FROM THE PLAN BASED ON THE MATERIAL IN THE PULVERIZE AND RELAY SECTION. NEW HMA PAVEMENT SHALL FOLLOW PROFILE OF PULVERIZE AND RELAID MATERIAL. ANY ADJUSTMENTS SHALL BE INCIDENTAL TO OTHER ITEMS IN THE CONTRACT.

THE ALIGNMENT IN THE MILL AND OVERLAY SECTION IS BASED ON FIELD SURVEY SHOTS TAKEN ON THE CENTERLINE AND/OR EDGELINE. ACTUAL ROADWAY CENTERLINE MAY DEVIATE FROM THE PLAN. NEW HMA PAVEMENT SHALL FOLLOW EXISTING ROADWAY CENTERLINE. ANY ADJUSTMENTS SHALL BE INCIDENTAL TO OTHER ITEMS IN THE CONTRACT.

PLACE ASPHALTIC SURFACE PATCHING ON MILLED SURFACE AREAS BEFORE AREAS ARE OPENED UP TO TRAFFIC OR WHEN FLAGGERS ARE PRESENT TO DIRECT TRAFFIC THROUGH THE WORK AREAS.

PLACE THE LOWER LAYER OF ASPHALTIC PAVEMENT ON THE MAINLINE WITHIN SEVEN (7) CALENDAR DAYS AFTER THE PULVERIZE AND RELAY IS COMPLETED ON THE MAINLINE OF CTH N.

PLACE THE LOWER LAYER OF ASPHALTIC PAVEMENTS ON SIDEROADS AND 4" DRIVEWAYS BEFORE THE UPPER SURFACE LAYER OF ASPHALTIC PAVEMENTS ARE PLACED ON THE MAINLINE ADJACENT TO THE SIDEROAD.

PLACE THE UPPER SURFACE LAYER OF ASPHALTIC PAVEMENT ON THE MAINLINE WITHIN SEVEN (7) CALENDAR DAYS AFTER THE LOWER SURFACE LAYER OF ASPHALTIC PAVEMENT IS PLACED OR MILLED ON THE MAINLINE OF BOTH THE CTH N AND CTH X ROADWAYS.

PLACE THE UPPER SURFACE LAYER OF ASPHALTIC PAVEMENT ON THE SIDEROADS WITHIN SEVEN (7) CALENDAR DAYS AFTER THE UPPER SURFACE LAYER OF ASPHALTIC PAVEMENT IS PLACED ON THE MAINLINE.

DESIGN CONTACT

QUEST CIVIL ENGINEERS
ADAM OSYPOWSKI
320 WEST GRAND AVENUE, SUITE 302
WISCONSIN RAPIDS, WI 54495
TELEPHONE: 715.423.3525
adam.osypowski@questllc.biz

DNR CONTACT

WISCONSIN DEPARTMENT OF NATURAL RESOURCES JON SIMONSEN 107 SUTLIFF AVENUE RHINELANDER, WI 54501 TELEPHONE 715-367-1936 jonathan.simonsen@wisconsin.gov

COUNTY CONTACT

MARATHON COUNTY HIGHWAY DEPARTMENT JIM GRIESBACH- COMMISSIONER 1430 WEST STREET WAUSAU, WI 54401 TELEPHONE 715-261-1800 James.Griesbach@co.marathon.wi.us

UTILITY CONTACTS

CHARTER COMMUNICATIONS (COMMUNICATIONS)
853 MCINTOSH STREET
P.O. BOX 1818
WAUSAU, WI 54402-1818
ATTN: SCOTT OLSON
715-301-4079 OFFICE
715-216-6204 CELL
SCOTT.OLSON@CHARTERCOM.COM

FRONTIER COMMUNICATIONS (COMMUNICATIONS) 521 FOURTH STREET WAUSAU, WI 54403 ATTN: TOM LOCKE 715-847-1550 TOM.LOCKE@FTR.COM

WAUSAU WATER WORKS (WATER) 407 GRANT STREET WAUSAU, WI 54403 ATTN: SHANNON LANE 715-261-7265 OR 715-571-9774 SHANNON.LANE@CI.WAUSAU.WI.US

WAUSAU WATER WORKS (SEWER) 407 GRANT STREET WAUSAU, WI 54403 ATTN: KEN RYE 715-261-6530 OR 715-574-3149 KEN.RYE@CI.WAUSAU.WI.US WISCONSIN PUBLIC SERVICE CORP (GAS)
1700 SHERMAN STREET
WAUSAU, WI 54476
ATTN: FRITZ MARTIN
715-848-7387 OFFICE
715-573-2025 CELL
FRANCIS.MARTIN@WISCONSINPUBLICSERVICE.COM

WISCONSIN PUBLIC SERVICE CORP (ELECTRIC)
PO BOX 1166
WAUSAU, WI 54402
ATTN: CLAYTON VIRCKS
715-848-7317 OFFICE
715-573-7806 CELL
CLAYTON.VIRCKS@WISCONSINPUBLICSERVICE.COM

ANR PIPELINE
2629 SUNSET DRIVE
STEVENS POINT, WI 54482
ATTN: DUANE PRONDZINSKI
715-460-4322 CELL
DUANE_PRONDZINSKI@TRANSCANADA.COM



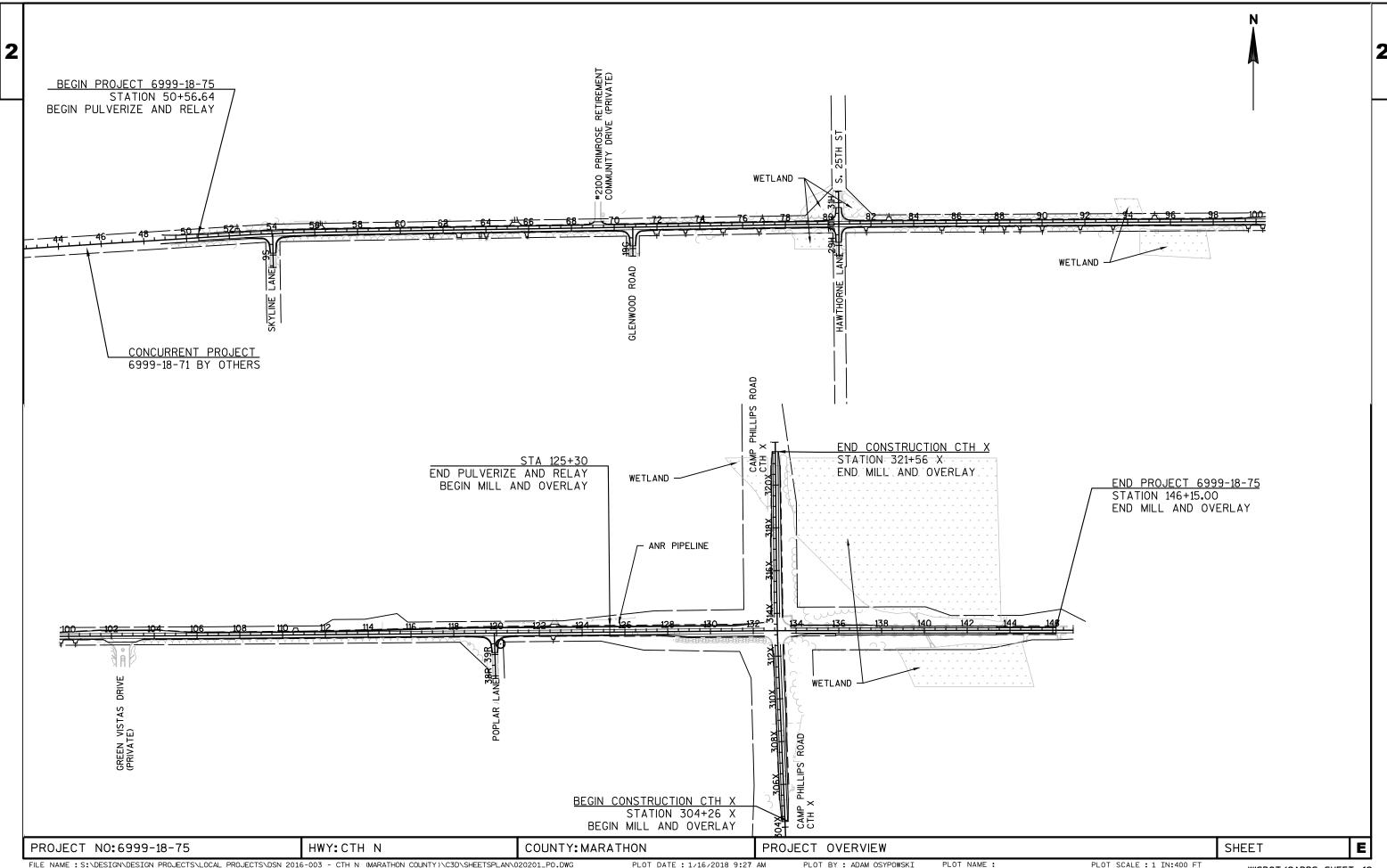
PAVEMENT CORING LOG

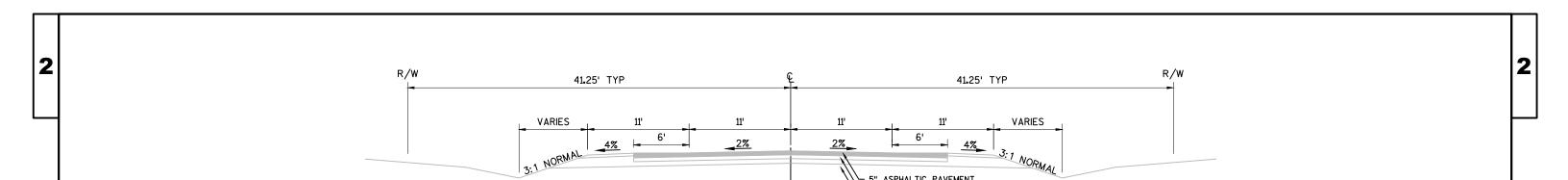
CORE NO.	STA	OFFSET FROM CTH N REF LINE	PAVEMENT THICKNESS	RECYCLED ASPHALT THICKNESS	BASE COURSE DEPTH
		REF LINE	(INCHES)	(INCHES)	(INCHES)
N-10	70+56	6.2' RT	4.5	5	6.5
N-11	118+82	15.5' LT	5.5	5	8.5

HMA PAVEMENT LAYER THICKNESS

TOTAL LAYER THICKNESS	LAYERS
CTH N PULVERIZE AND RELAY SECTION – 4" MAINLINE AND SHOULDERS	1 ¾"" UPPER LAYER 5 LT 58-28 S 2 ¼" LOWER LAYER 3 LT 58-28 S
CTH N AND CTH X MILL AND OVERLAY SECTION – 1 ¾" MAINLINE AND SHOULDERS	1 ¾" UPPER LAYER 5 LT 58-28 S

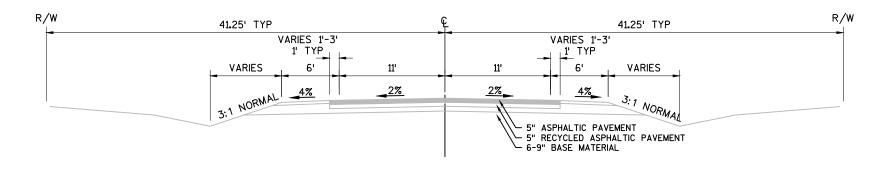
PROJECT NO: 6999-18-75 HWY: CTH N COUNTY: MARATHON GENERAL NOTES SHEET:



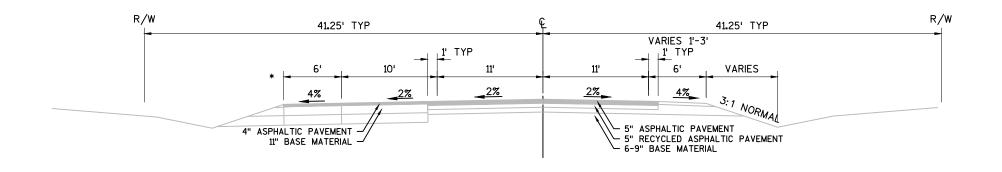


EXISTING TYPICAL SECTION STATION 50+50.64 TO STATION 54+56

5" ASPHALTIC PAVEMENT 5" RECYCLED ASPHALTIC PAVEMENT 6-9" BASE MATERIAL

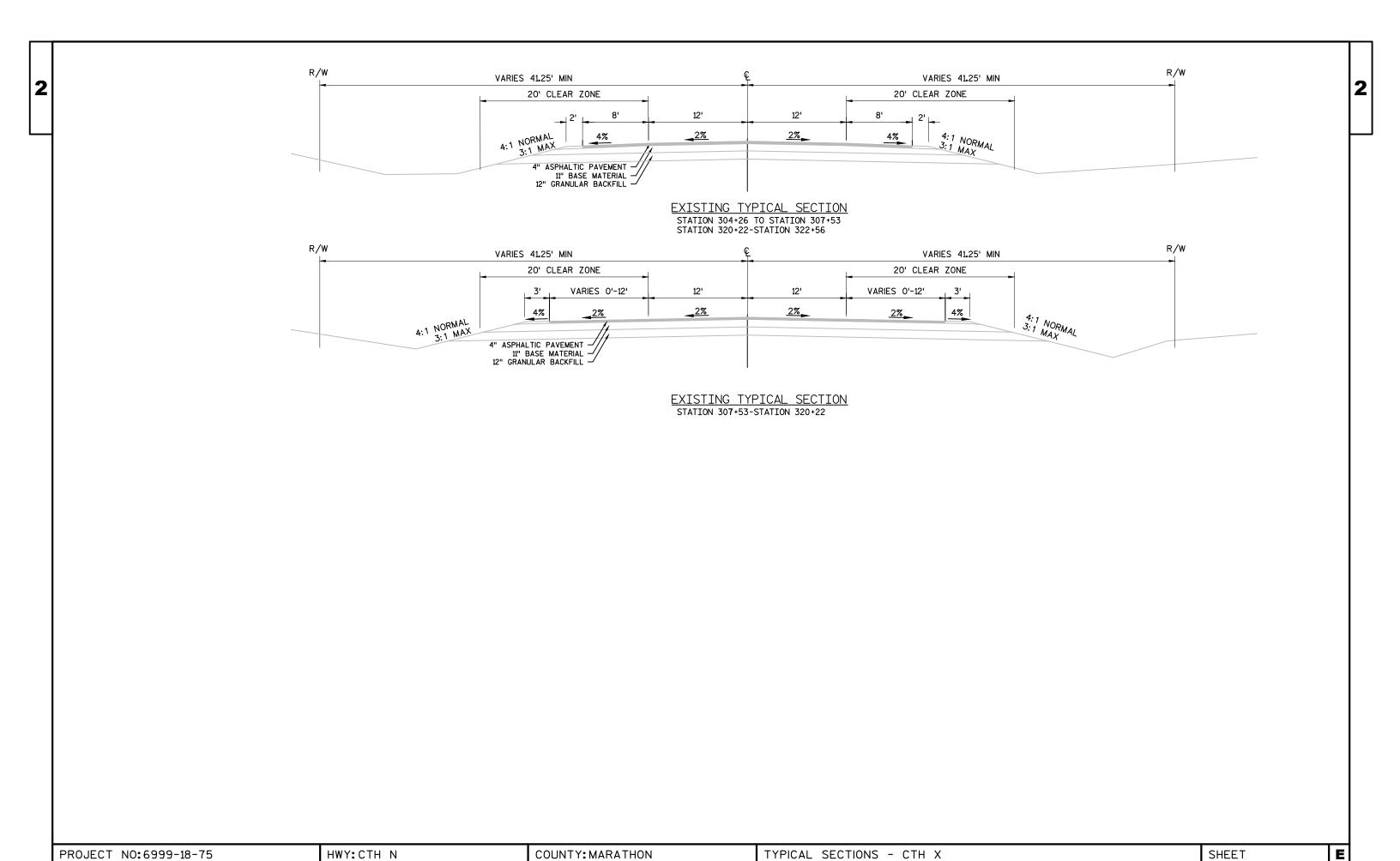


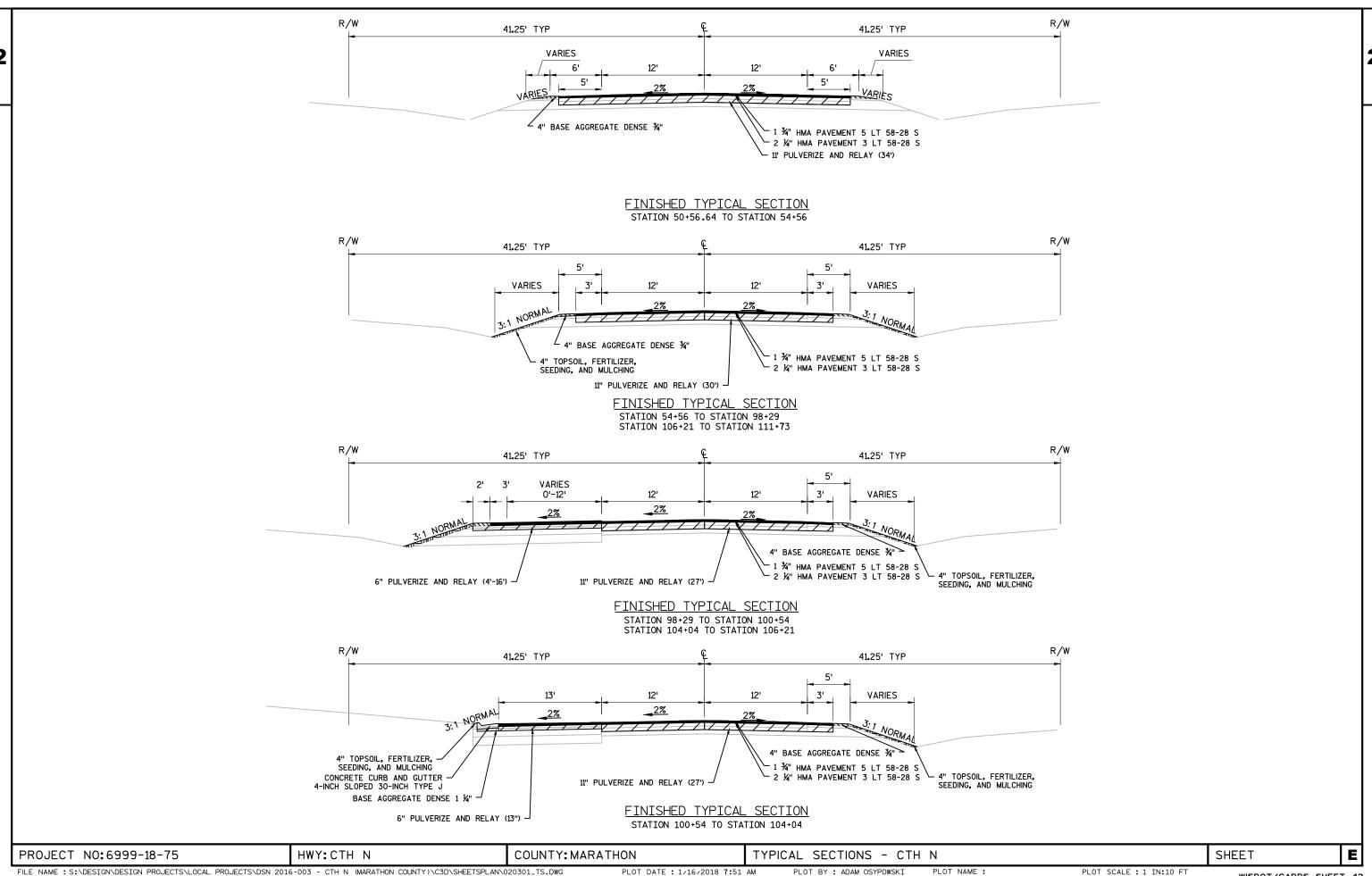
EXISTING TYPICAL SECTION STATION 54+56 TO STATION 98+29 STATION 106+21 TO STATION 111+73

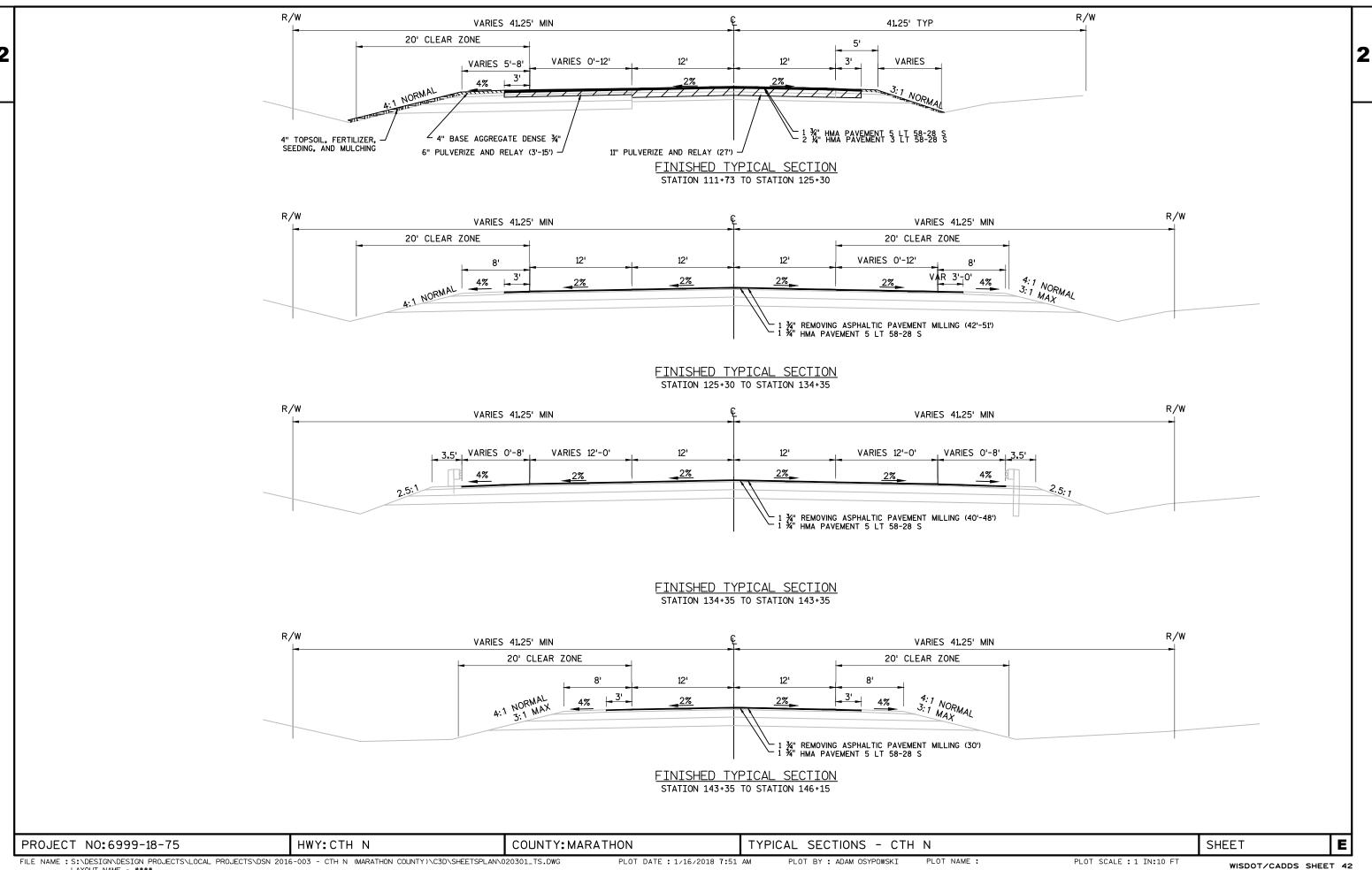


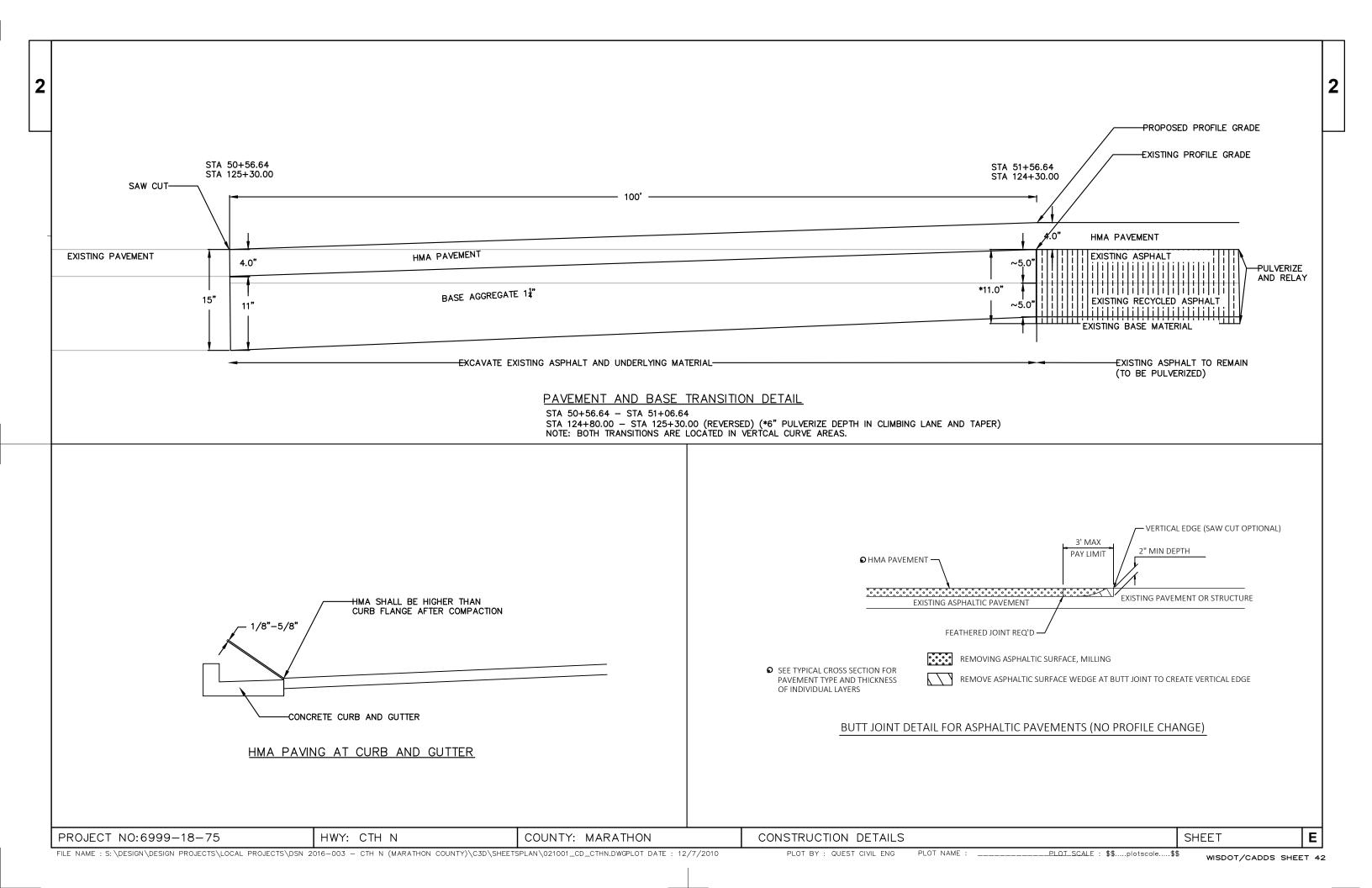
EXISTING TYPICAL SECTION

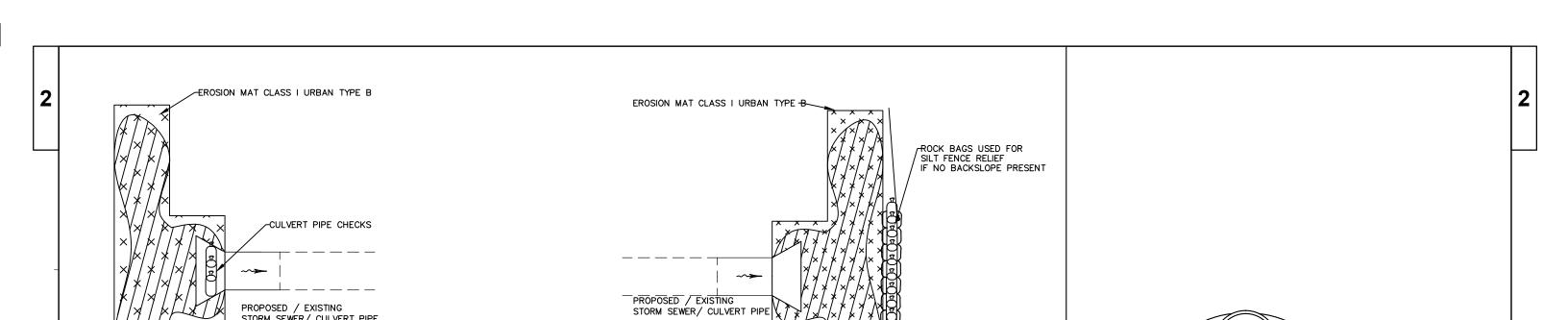
STATION 98+29 TO STATION 106+21 * 30 IN CURB AND GUTTER STA 101+54-STA 104+04











PLAN VIEW

EROSION CONTROL AT INLET

PROJECT NO:6999-18-75

PLAN VIEW

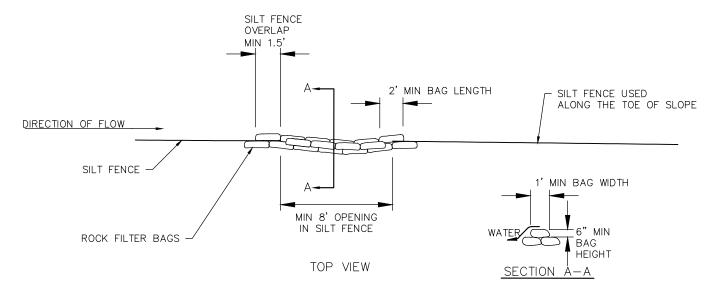
STORM SEWER/ CULVERT PIPE

EROSION CONTROL AT OUTFALL

EROSION CONTROL AT APRON ENDWALLS FOR USE IN CROSS CULVERT LOCATIONS

EROSION MAT URBAN CLASS I TYPE B

DISTURBED AREA



ROCK BAGS USED FOR SILT FENCE RELIEF

COUNTY: MARATHON

CONSTRUCTION DETAILS

ROCK BAGS

ROCK BAGS

END VIEW

6" MIN

APRON ENDWALL

SIDE VIEW

CULVERT PIPE CHECK

(INSTALL ON INLET END ONLY)

OPTIONAL ROCK BAG LOCATION

FLOW

PLOT NAME : ______PLOT_SCALE : \$\$....plotscale....\$\$

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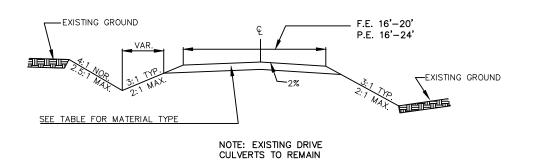
FILE NAME: S:\DESIGN\DESIGN PROJECTS\LOCAL PROJECTS\DSN 2016-003 - CTH N (MARATHON COUNTY)\C3D\SHEETSPLAN\021001_CD_CTHN.DWGPLOT DATE: 12/7/2010

HWY: CTH N

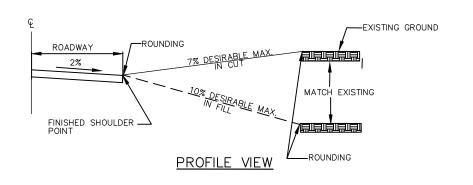
PLOT BY: QUEST CIVIL ENG

WISDOT/CADDS SHEET 42

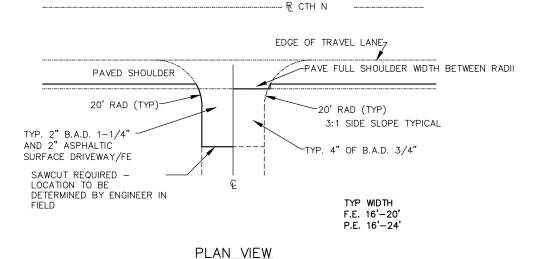
SHEET



TYPICAL CROSS SECTION



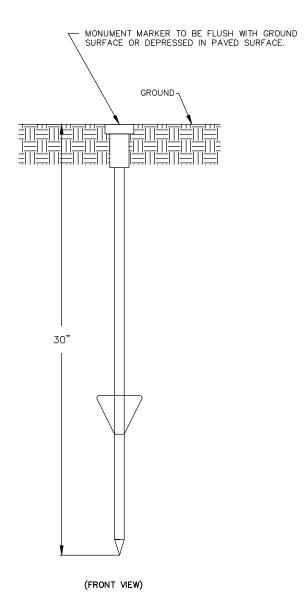
DRIVEWAY OPENING LOCATION	FIRE NO	ТҮРЕ	MATERIAL	MATCH TO EXISTING	WIDTH @ MATCH	RADIUS DOWN STA	RADIUS UP STA	SLOPE %
52+39 LT	-	FE	BASE AGG. DENSE 3/4"	32' LT	16.8'	20'	20'	-2.7
56+28 LT	1804	RES	ASPHALTIC SURFACE DRIVEWAY	32' LT	18.5'	35'	30'	1.0
61+45 RT	1821	RES	ASPHALTIC SURFACE DRIVEWAY	35' RT	16.0'	20'	20'	-14.4
62+13 LT	1908	RES	ASPHALTIC SURFACE DRIVEWAY	32' LT	11.3'	20'	20'	7.0
62+75 RT	1919	RES	ASPHALTIC SURFACE DRIVEWAY	35' RT	19.7'	20'	20'	-12.9
64+02 RT	1825 1925	RES	ASPHALTIC SURFACE DRIVEWAY	35' RT	13.2'	20'	20'	-11.8
65+39 LT	-	COMM FE	BASE AGG. DENSE 3/4"	32' LT	32.3'	30'	45'	5.4
65+92 RT	2011	RES	ASPHALTIC SURFACE DRIVEWAY	38' RT	11.2'	20'	20'	-14.0
69+24 LT	2100	COMM	ASPHALTIC SURFACE DRIVEWAY-4"	28' LT	33.6'	25' CURB	25' CURB	1.0
71+98 RT	2203	RES	ASPHALTIC SURFACE DRIVEWAY	35' RT	21.5'	20'	20'	-10.9
73+33 RT	2211	RES	ASPHALTIC SURFACE DRIVEWAY	32' RT	10.5'	20'	20'	-1.2
74+13 LT	2302	RES	ASPHALTIC SURFACE DRIVEWAY	32' LT	12.0'	20'	20'	7.8
75+09 RT	2315	RES	ASPHALTIC SURFACE DRIVEWAY	32' RT	18.0'	20'	20'	-8.4
76+78 RT	2403	RES	ASPHALTIC SURFACE DRIVEWAY	32' RT	12.8'	20'	20'	-6.5
76+92 LT	2308	RES	BASE AGG. DENSE 3/4"	32' LT	11.3'	20'	20'	-1.3
81+77 RT	2505	RES	ASPHALTIC SURFACE DRIVEWAY	32' RT	10.0'	20'	20'	-9.1
82+84 LT	-	FE	BASE AGG. DENSE 3/4"	32' LT	16.4'	20'	20'	-7.4
85+33 RT	2615	RES	ASPHALTIC SURFACE DRIVEWAY	32' RT	17.9'	20'	20'	0.8
87+26 RT	2623	RES	ASPHALTIC SURFACE DRIVEWAY	32' RT	18.0'	20'	20'	-3.7
88+24 RT	2715	RES	ASPHALTIC SURFACE DRIVEWAY	35' RT	11.2	20'	20'	-9.0
88+96 RT	2727	RES ACCESS	ASPHALTIC SURFACE DRIVEWAY	32' RT	9.7'	20'	20'	-10.8
90+00 RT	2727	RES	ASPHALTIC SURFACE DRIVEWAY	35' RT	13.5'	20'	20'	-15.6
91+80 RT	2811	RES	RED GRANITE	32' RT	11.3'	20'	20'	-12.0
93+32 RT	2821	RES	ASPHALTIC SURFACE DRIVEWAY	35' RT	10.4'	20'	20'	-11.7
95+26 LT	2902 2904	RES	BASE AGG. DENSE 3/4"	32' LT	15.6'	20'	20'	-6.2
99+64 RT	3015	RES	ASPHALTIC SURFACE DRIVEWAY	32' RT	14.8'	20'	20'	-8.8
100+32 RT	3015	AGRIC	ASPHALTIC SURFACE DRIVEWAY	32' RT	14.7'	20'	20'	-7.4
102+53	-	PRIVATE RD	ASPHALTIC SURFACE DRIVEWAY - 4"	28' RT	124'	-	-	-1.3
110+61 LT	-	FE	BASE AGG. DENSE 3/4"	32' LT	15.6'	20'	20'	-5.0
122+65 RT	-	FE	BASE AGG. DENSE 3/4"	32' RT	12.7'	20'	20'	-5.0
122+73 LT	3708	AGRIC	ASPHALTIC SURFACE DRIVEWAY	40' LT	37.3'	40'	40'	-13.2



RURAL DRIVEWAY DETAIL

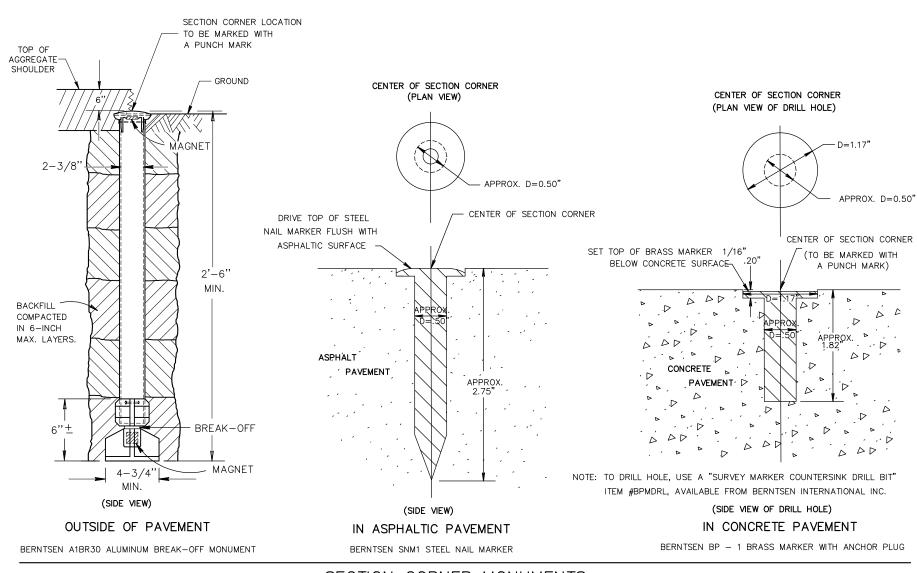
WIS DOT MONUMENT CAP MARKER LOGO (SSDR130)

CONTRACTOR TO ORDER LANDMARK REFERENCE MONUMENTS



BERNSTEN DRIVABLE MONUMENT SSDR130

LANDMARK REFERENCE MONUMENT (TIES ONLY)



SECTION CORNER MONUMENTS

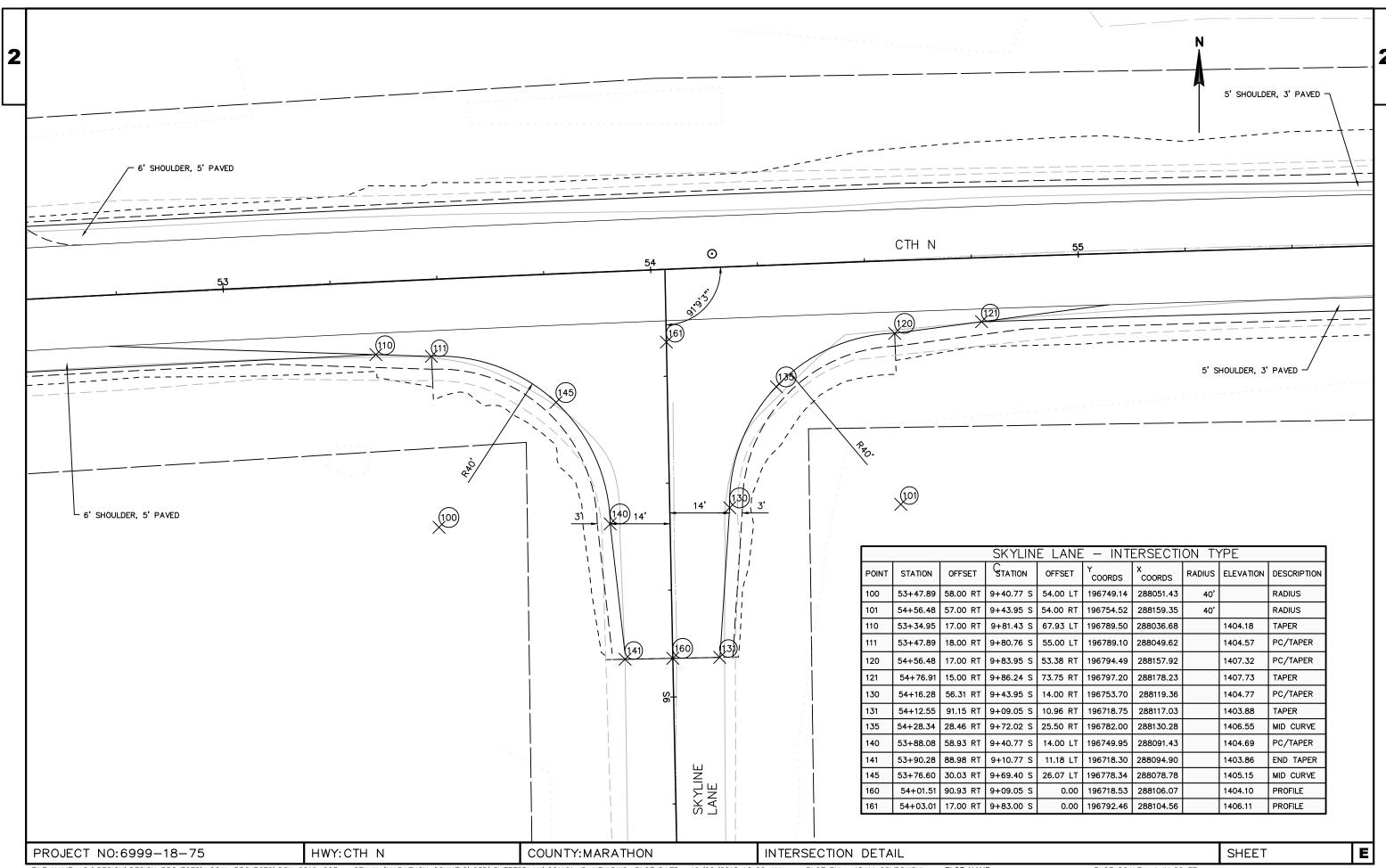
GENERAL NOTES

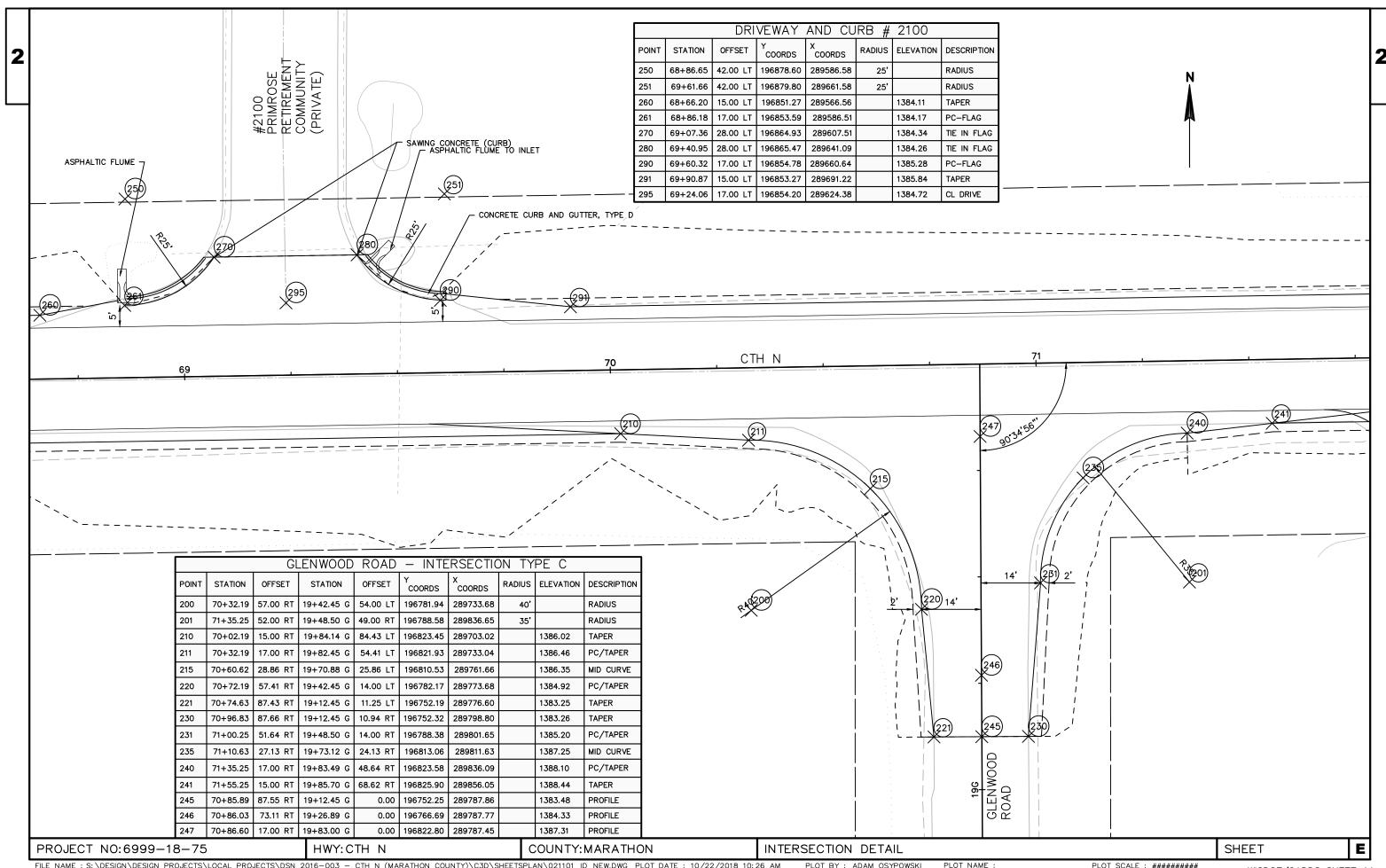
DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

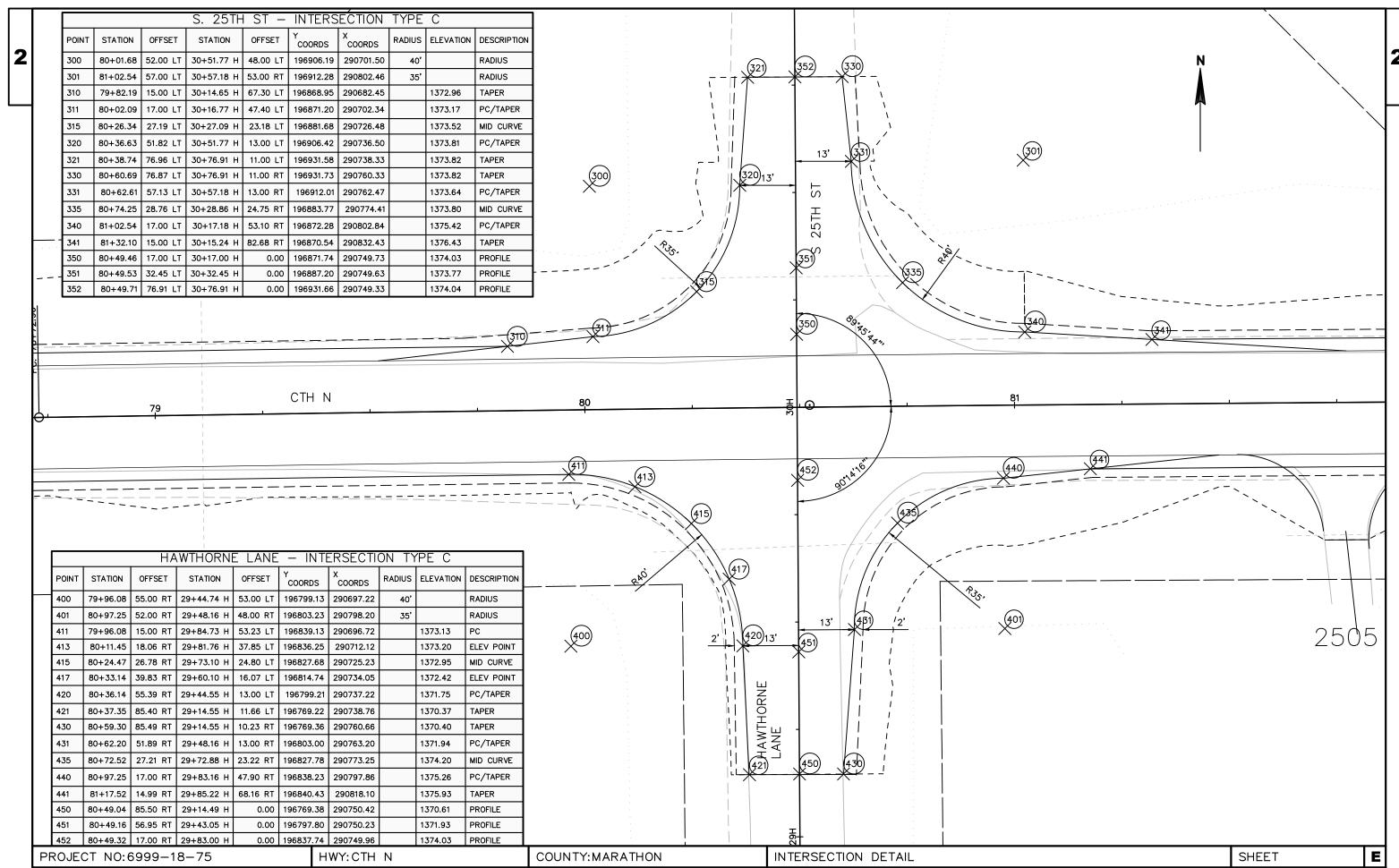
LOCATE LANDMARK REFERENCE MONUMENTS OUTSIDE THE CONSTRUCTION LIMITS AND WITHIN WISDOT RIGHT OF WAY. LOCATION TO BE APPROVED BY THE ENGINEER.

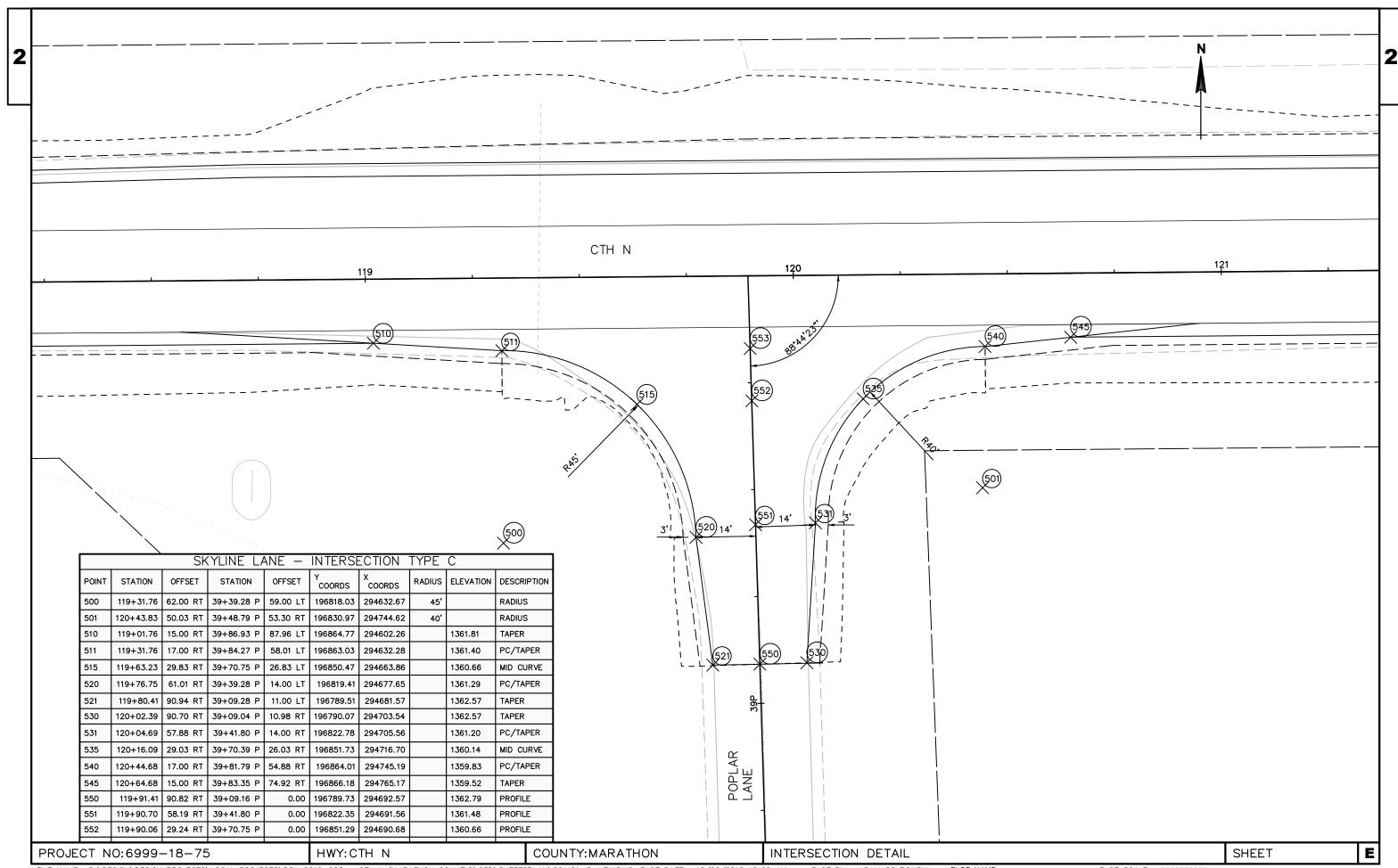
CONTRACTOR WILL SUPPLY ALL REQUIRED SURVEY MONUMENTS.

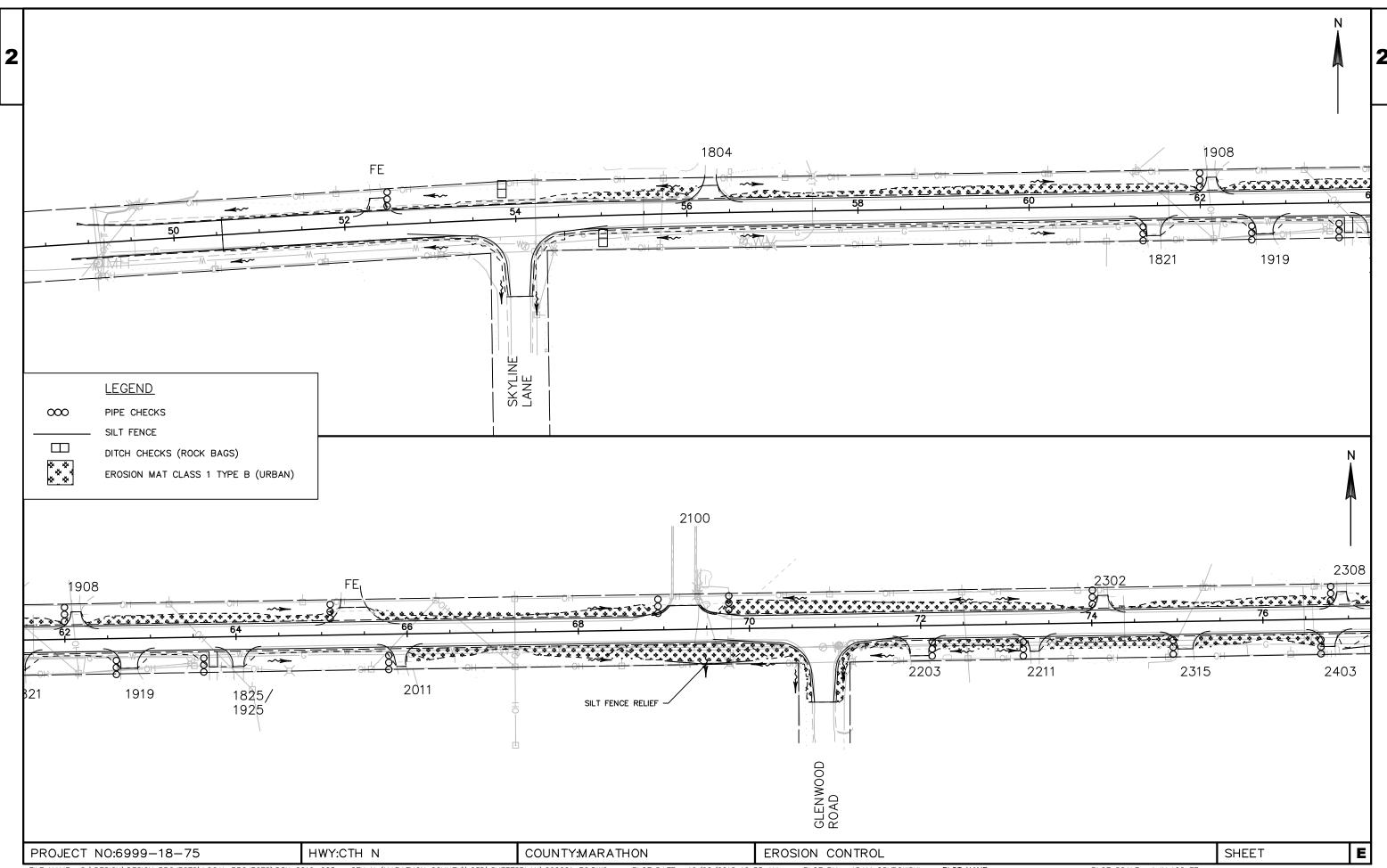
PROJECT NO:6999-18-75 COUNTY: MARATHON CONSTRUCTION DETAILS Ε HWY: CTH N SHEET

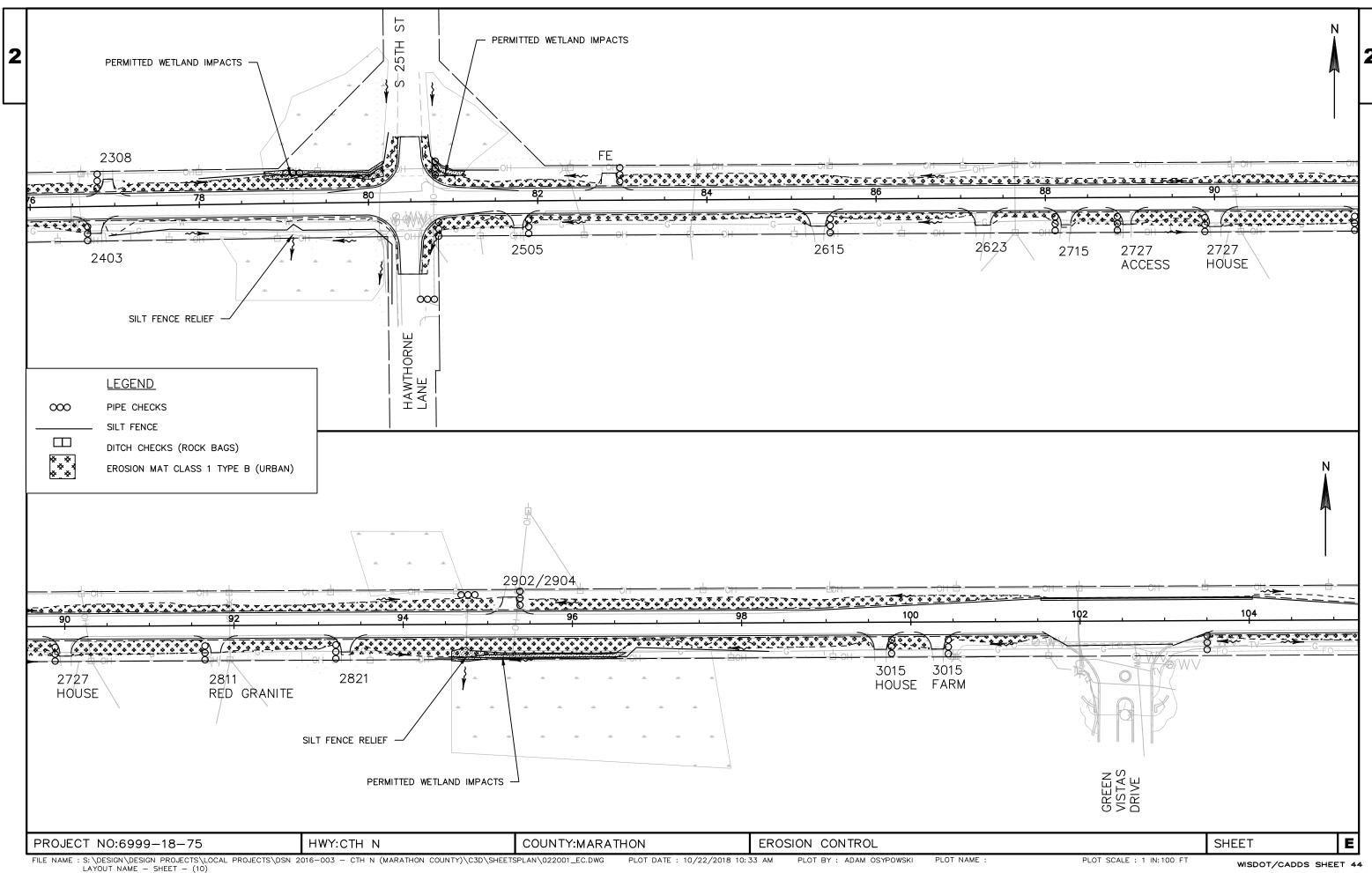


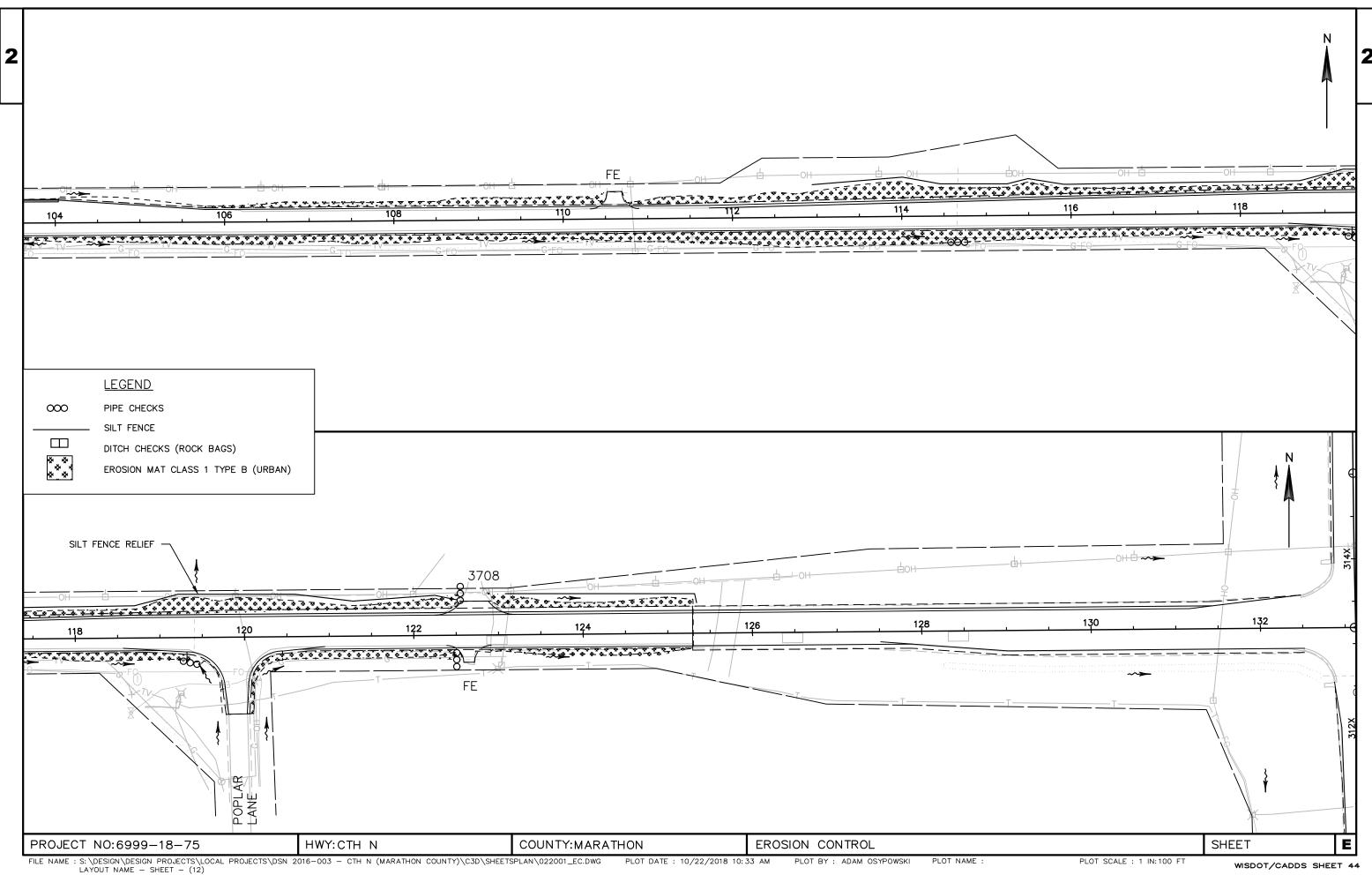


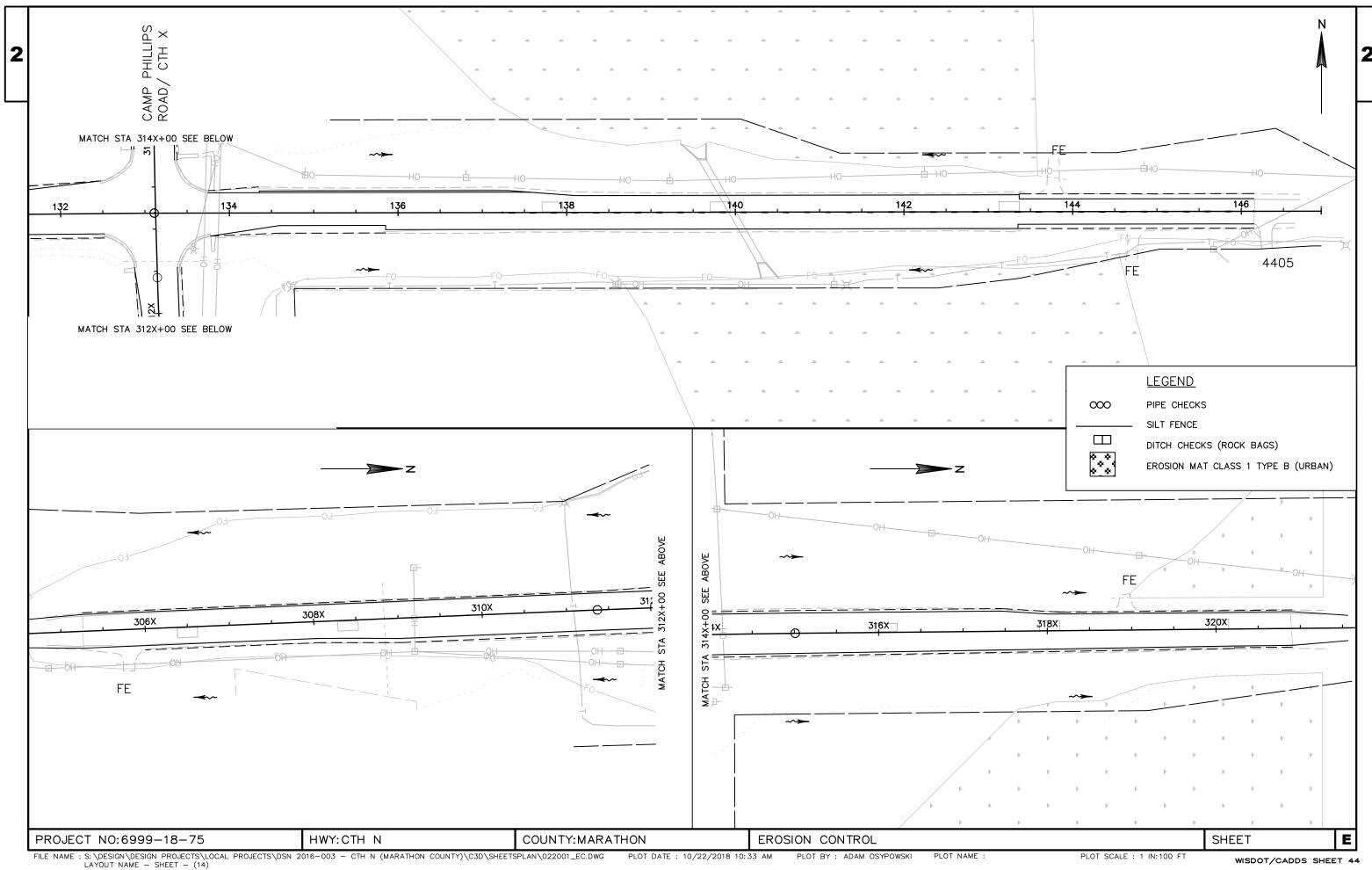


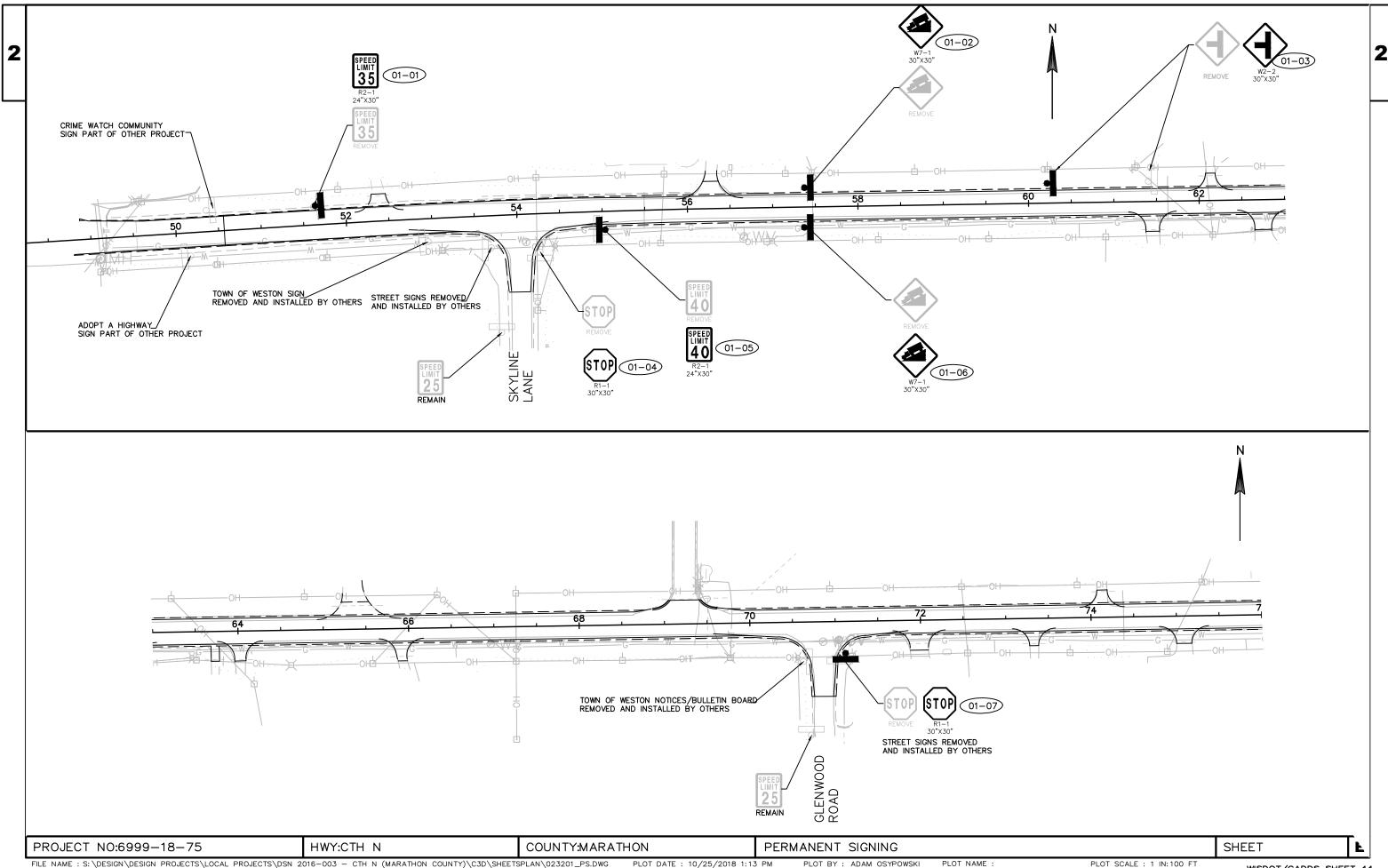


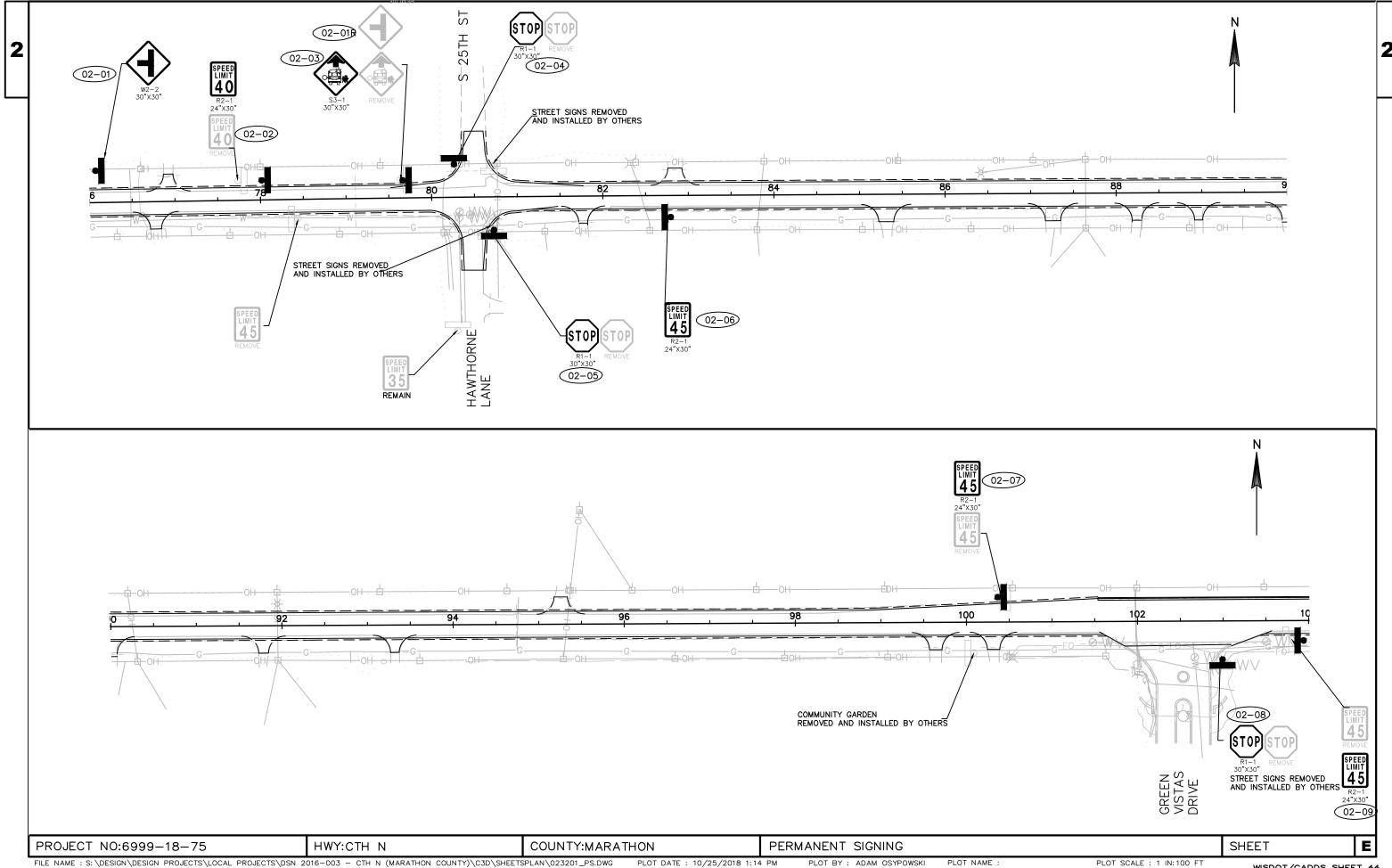


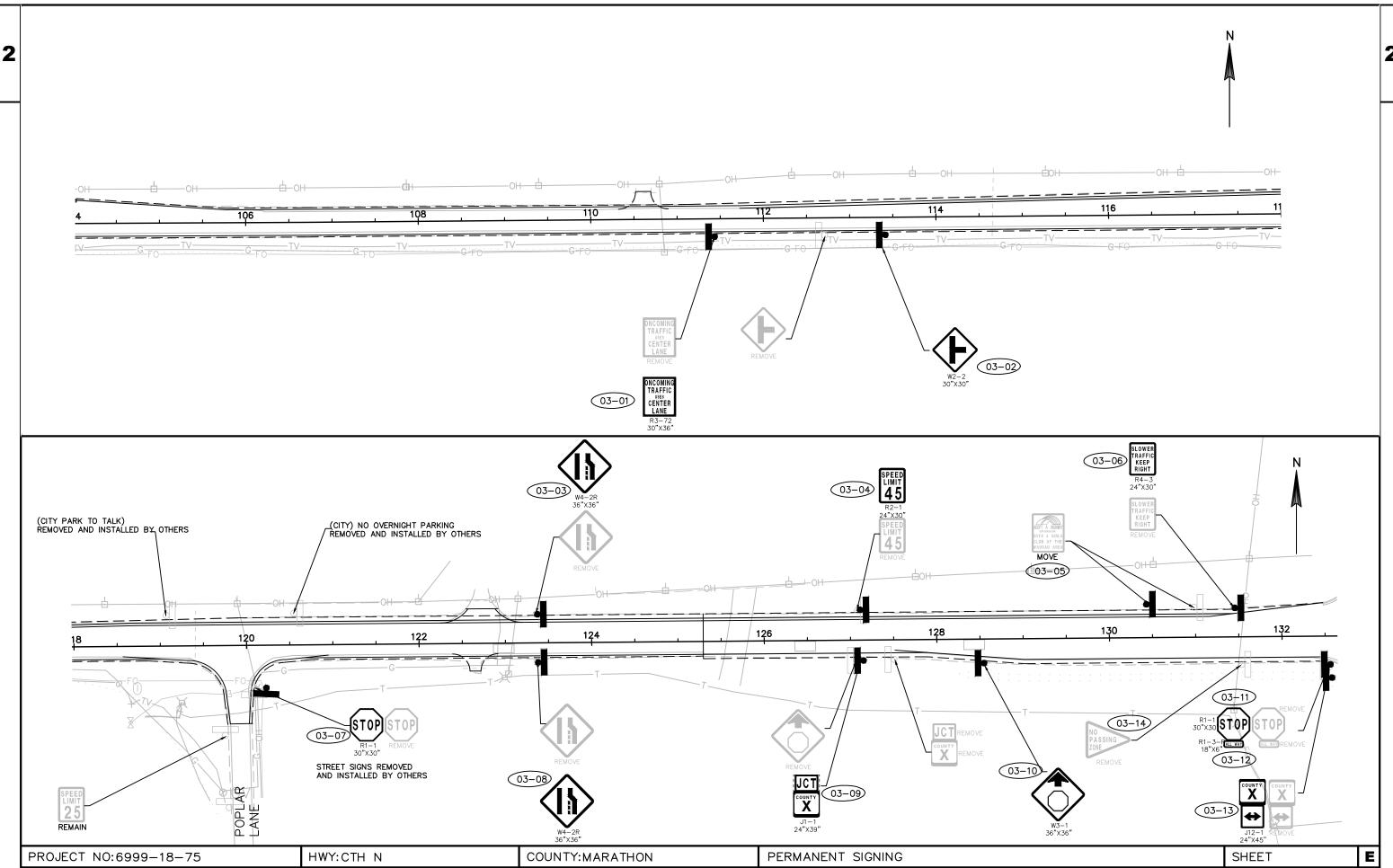


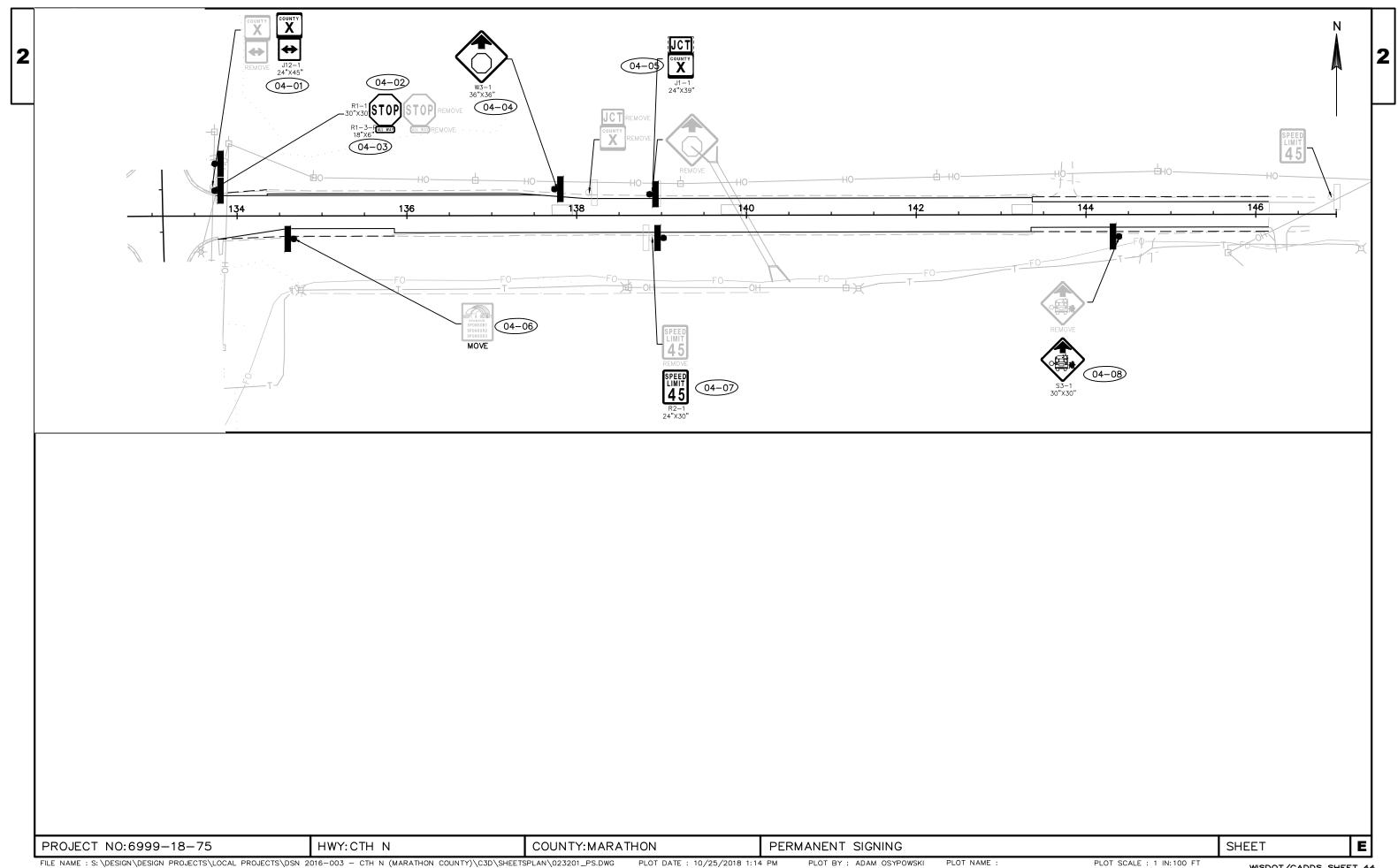


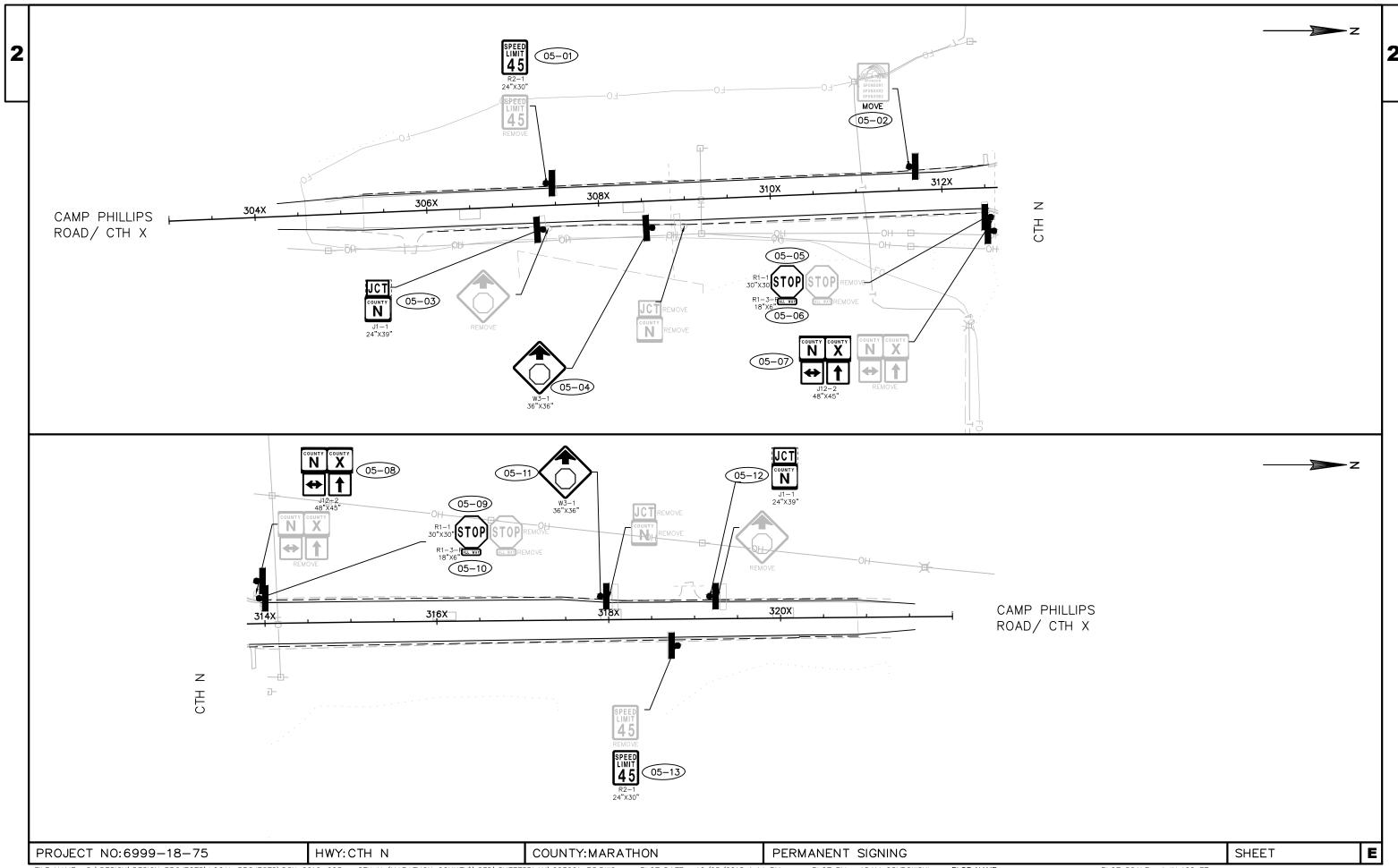


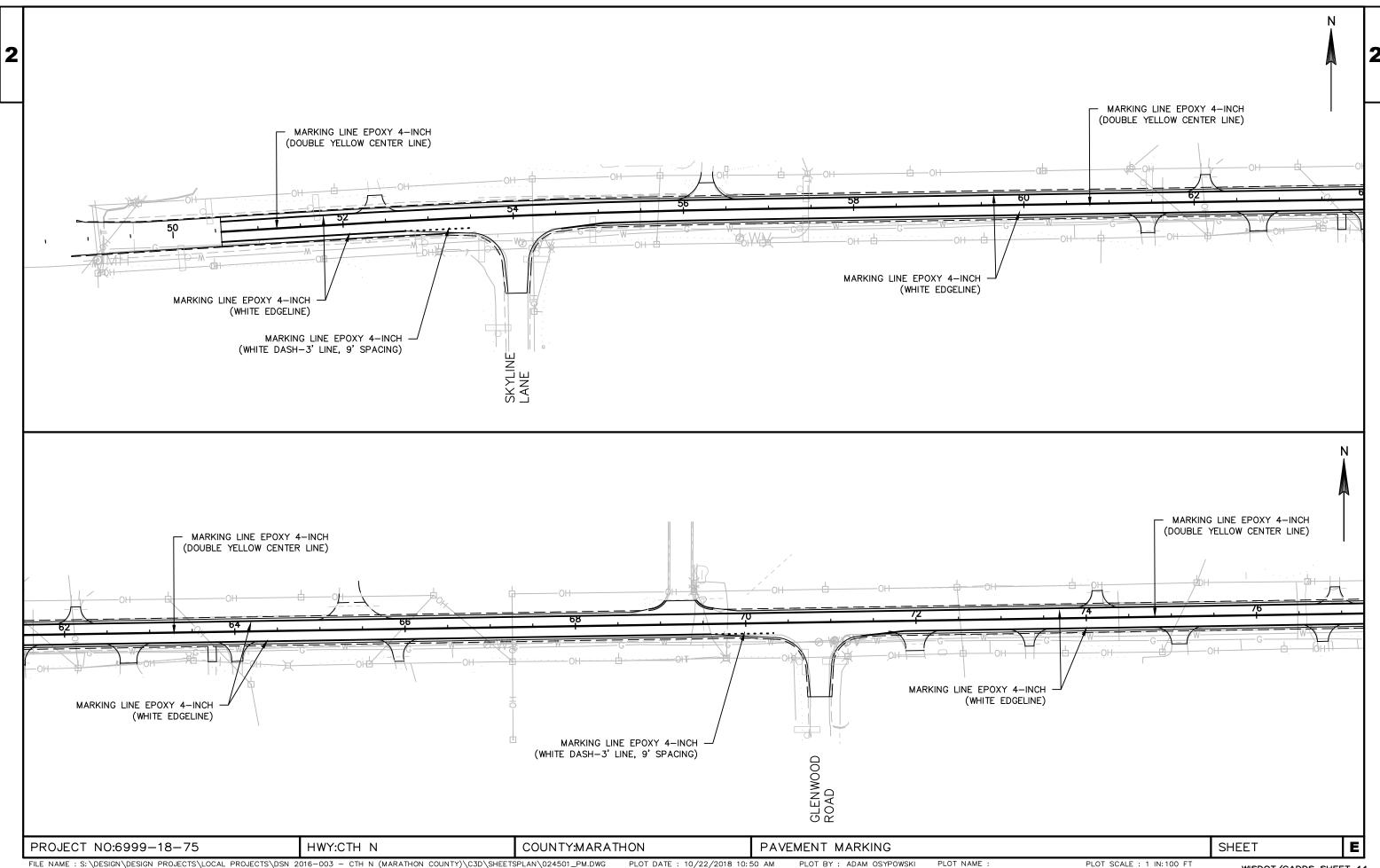


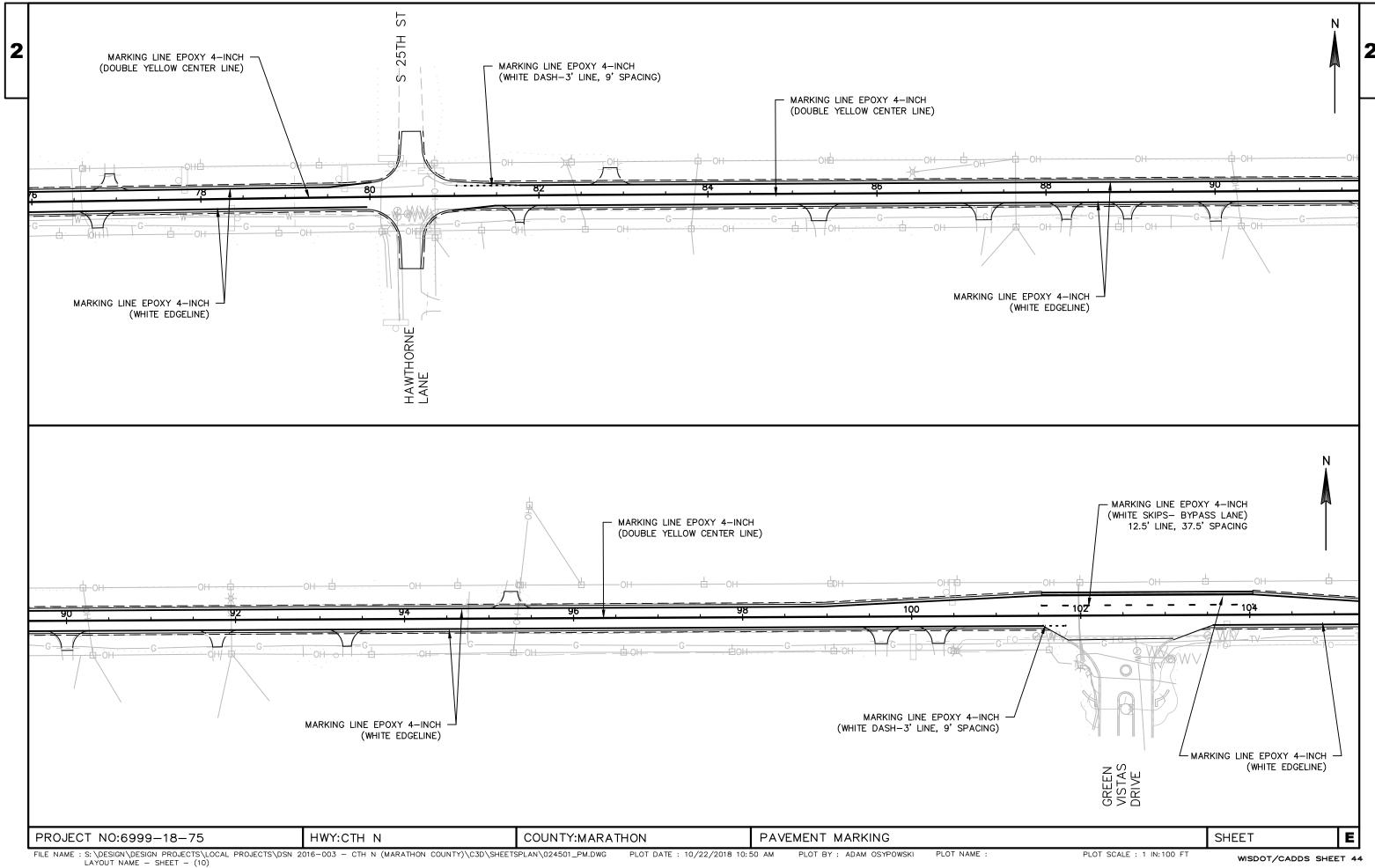


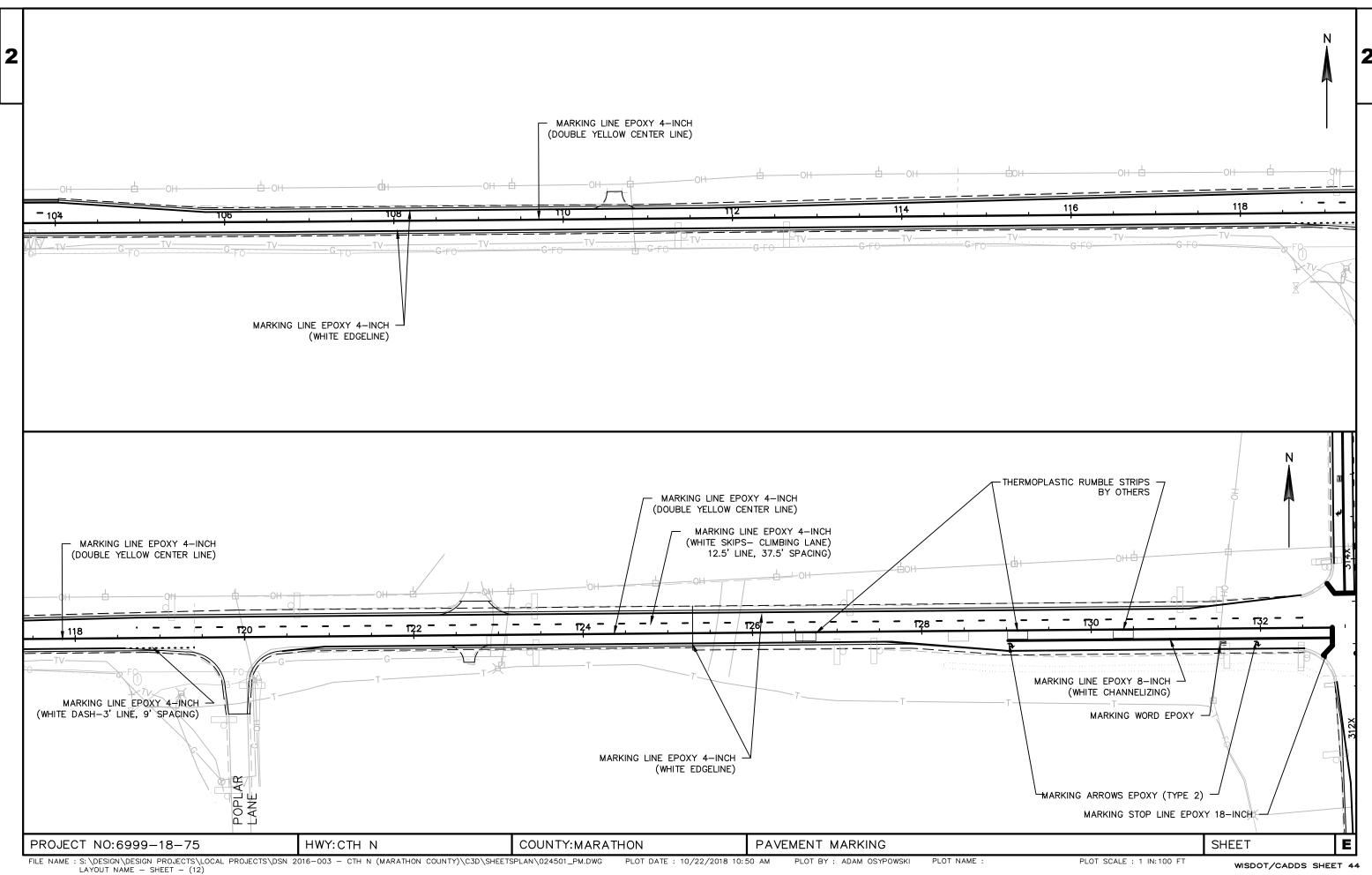


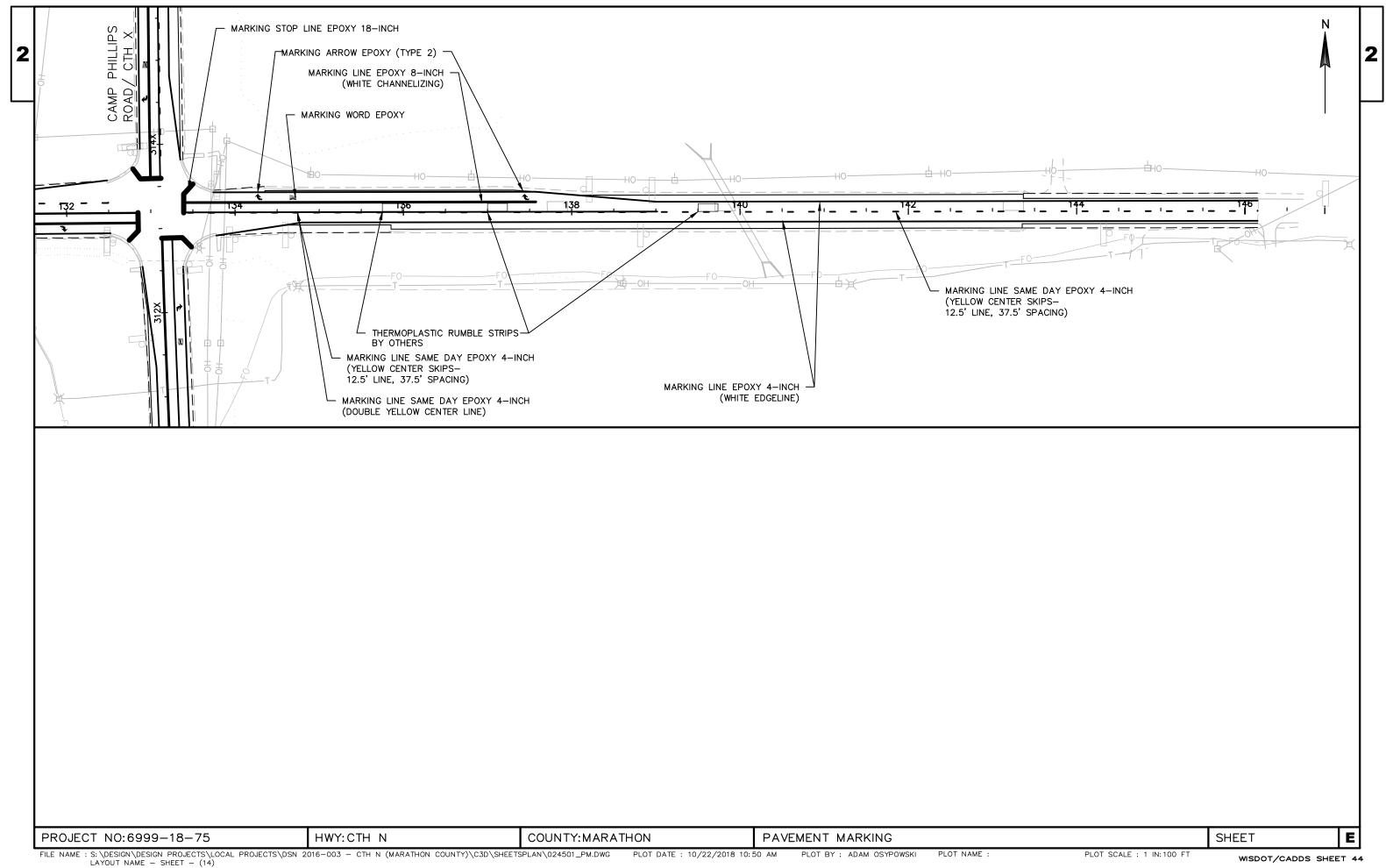


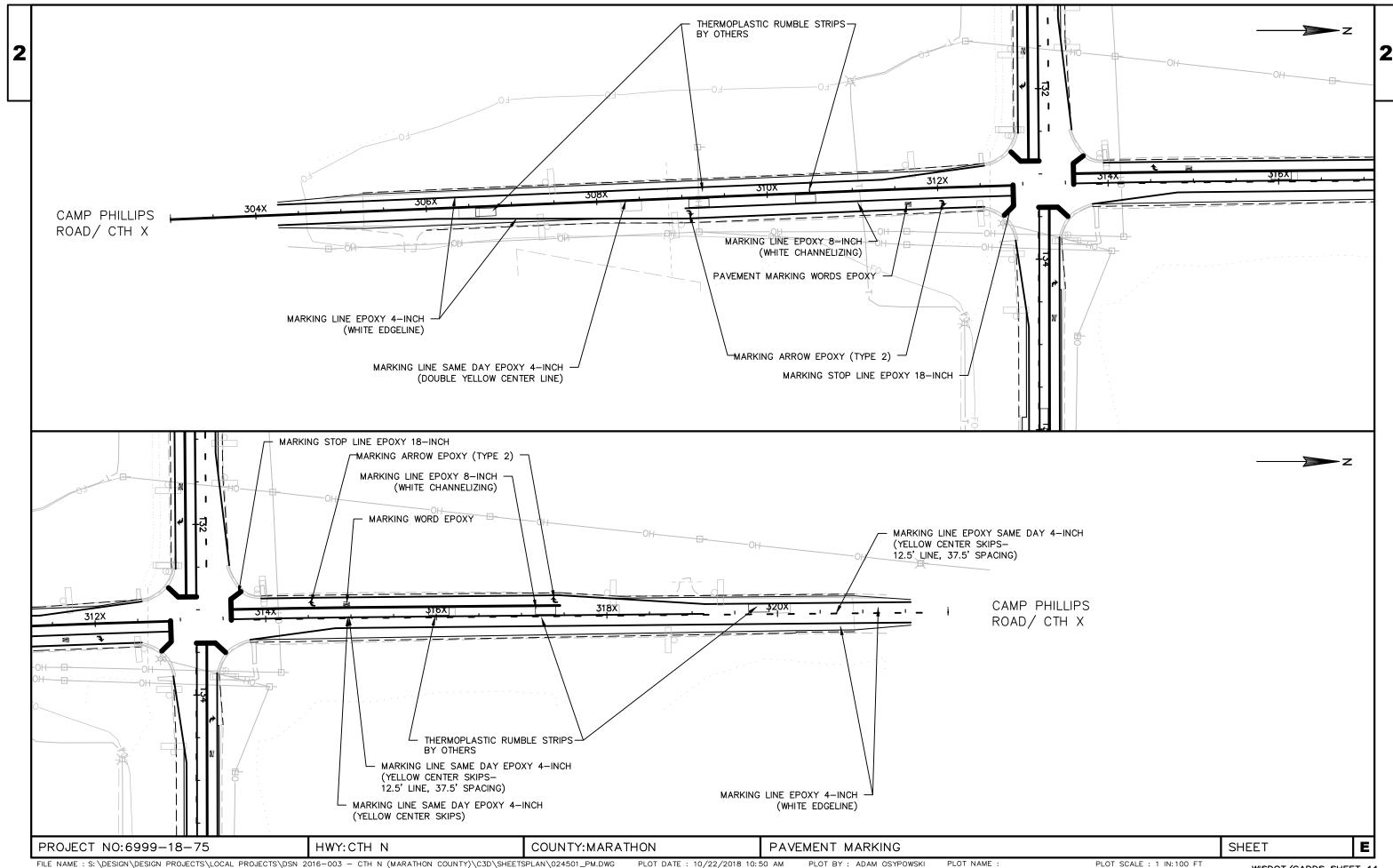


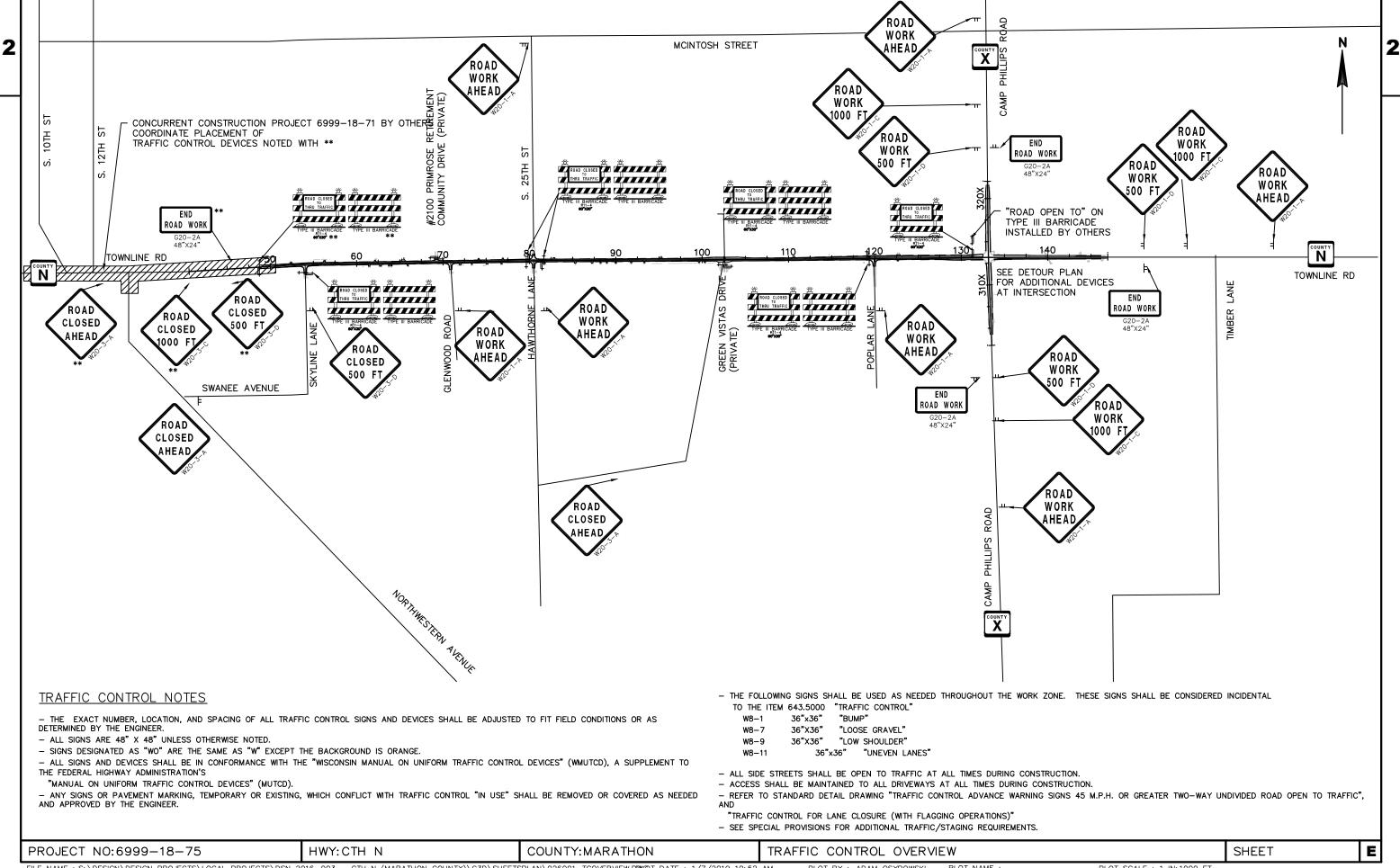


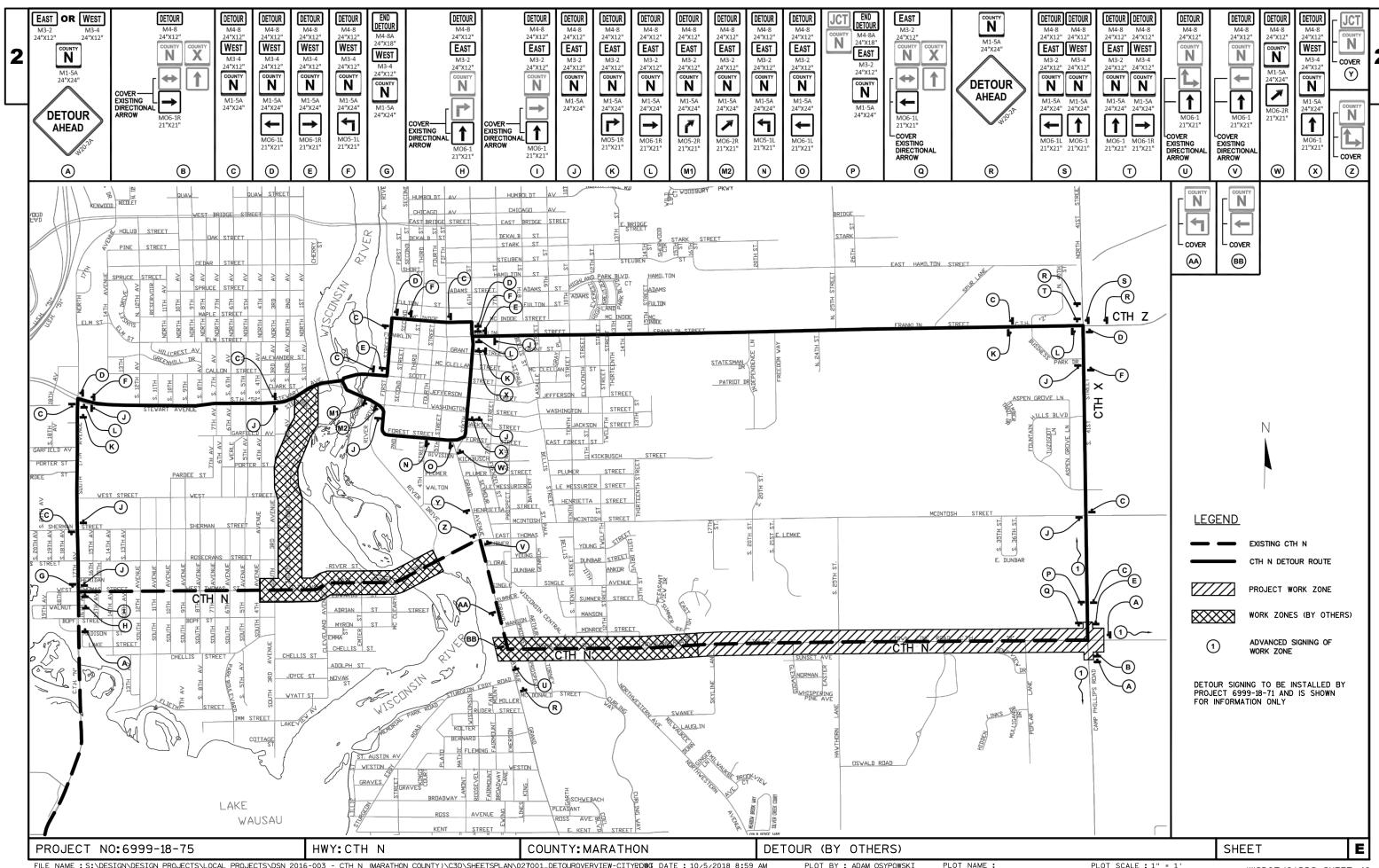


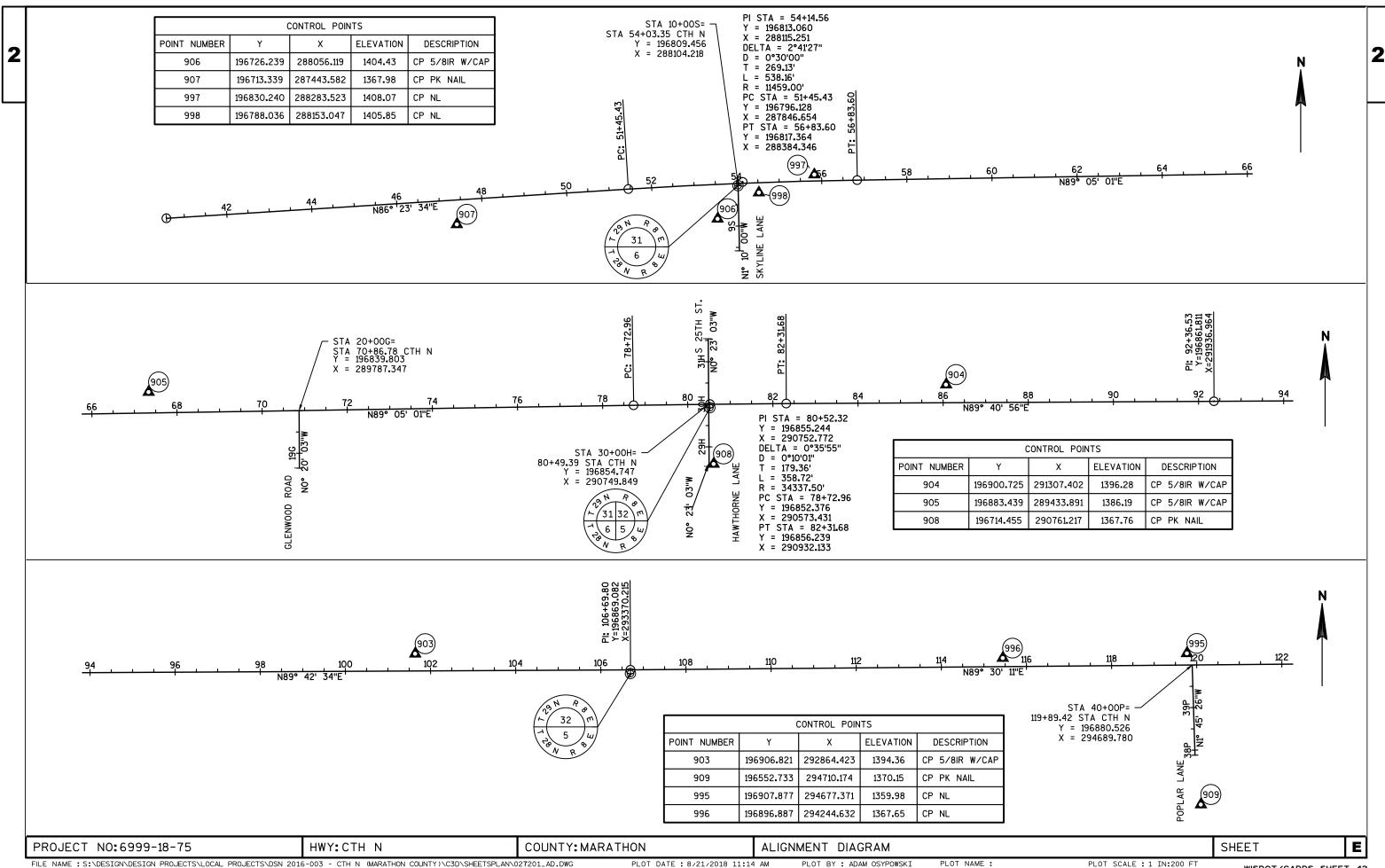


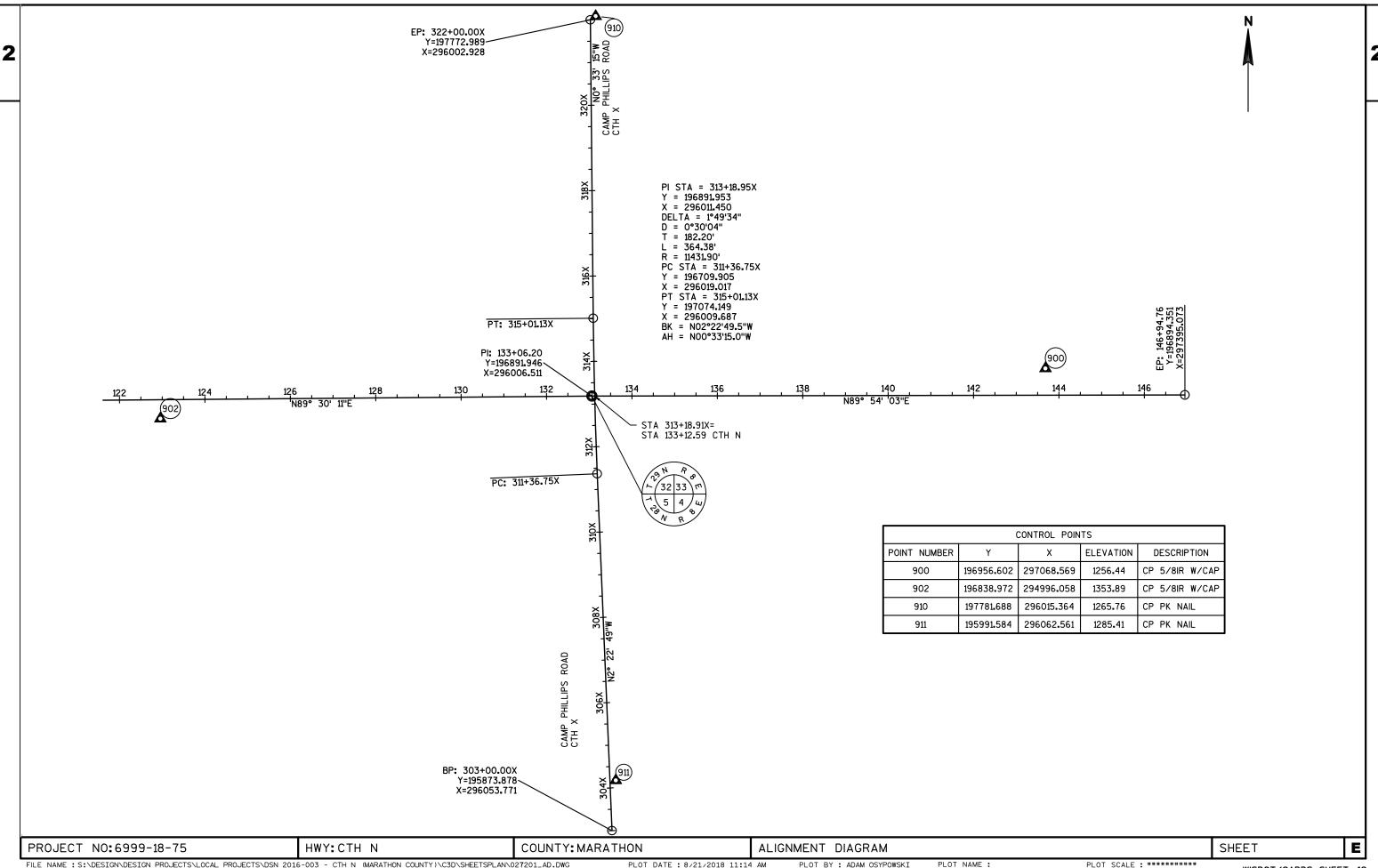












Page 1

0010 0012 0014 0016	204.0110 204.0115 204.0120 204.0150 205.0100 205.9010.S	Item Description Removing Asphaltic Surface Removing Asphaltic Surface Butt Joints Removing Asphaltic Surface Milling Removing Curb & Gutter Excavation Common	Unit SY SY SY	Total 1,192.000 36.000	Qty 1,192.000
0004 0006 0008 0010 0012 0014	204.0115 204.0120 204.0150 205.0100 205.9010.S	Removing Asphaltic Surface Butt Joints Removing Asphaltic Surface Milling Removing Curb & Gutter	SY		
0004 0006 0008 0010 0012 0014	204.0115 204.0120 204.0150 205.0100 205.9010.S	Removing Asphaltic Surface Butt Joints Removing Asphaltic Surface Milling Removing Curb & Gutter	SY		.,.52.000
0006 0008 0010 0012 0014	204.0120 204.0150 205.0100 205.9010.S	Removing Asphaltic Surface Milling Removing Curb & Gutter		20 000	36.000
0008 0010 0012 0014 0016	204.0150 205.0100 205.9010.S	Removing Curb & Gutter		18,357.000	18,357.000
0010 0012 0014 0016 0018	205.0100 205.9010.S	•	LF	300.000	300.000
0012 0014 0016	205.9010.S		CY	500.000	500.000
0014 0016			LS	1.000	1.000
0016	005 0040 0	Lane			
	205.9010.S	Grading and Shaping Intersection (location) 02. Glenwood Road	LS	1.000	1.000
0018	205.9010.S	Grading and Shaping Intersection (location) 03. Hawthorne Lane	LS	1.000	1.000
	205.9010.S	Grading and Shaping Intersection (location) 04. 25th Avenue	LS	1.000	1.000
0020	205.9010.S	Grading and Shaping Intersection (location) 05. Poplar Lane	LS	1.000	1.000
0022	208.0100	Borrow	CY	2,519.000	2,519.000
0024	211.0100	Prepare Foundation for Asphaltic Paving (project) 01. 6999-18-75	LS	1.000	1.000
0026	213.0100	Finishing Roadway (project) 01. 6999-18-75	EACH	1.000	1.000
0028	305.0110	Base Aggregate Dense 3/4-Inch	TON	2,291.000	2,291.000
0030	305.0120	Base Aggregate Dense 1 1/4-Inch	TON	2,395.000	2,395.000
0032	305.0500	Shaping Shoulders	STA	74.000	74.000
0032	325.0100	Pulverize and Relay	SY	26,350.000	26,350.000
0034	374.1020.S	•	SY	26,350.000	26,350.000
0038	455.0605	Tack Coat	GAL	2,818.000	2,818.000
0038	460.2000	Incentive Density HMA Pavement	DOL	3,149.000	3,149.000
0040	460.4110.S	•	LF	3,900.000	3,900.000
0042	460.4110.5	HMA Pavement 3 LT 58-28 S		3,699.000	3,699.000
		HMA Pavement 5 LT 58-28 S	TON		
0046	460.5225		TON	4,721.000	4,721.000
0048	465.0110	Asphaltic Surface Patching	TON	20.000	20.000
0050	465.0120	Asphaltic Surface Driveways and Field Entrances	TON	184.000	184.000
0052	465.0315	Asphaltic Flumes	SY	10.000	10.000
0054	601.0110	Concrete Curb Type D	LF	50.000	50.000
0056	601.0576	Concrete Curb & Gutter 4-Inch Sloped 30-Inch Type J	LF	250.000	250.000
0058	614.0400	Adjusting Steel Plate Beam Guard	LF	1,659.000	1,659.000
0060	614.0950	Replacing Guardrail Posts and Blocks	EACH	130.000	130.000
0062	618.0100	Maintenance And Repair of Haul Roads (project) 01. 6999-18-75	EACH	1.000	1.000
0064	619.1000	Mobilization	EACH	1.000	1.000
0066		Landmark Reference Monuments	EACH	16.000	16.000
0068	621.0100	Landinark Reference Monuments			. 0.000

Estimate Of Quantities

6999-18-75				
	CC	α	40	76

					6999-18-75	
Line	Item	Item Description	Unit	Total	Qty	
0070	625.0100	Topsoil	SY	14,975.000	14,975.000	
072	627.0200	Mulching	SY	1,285.000	1,285.000	
074	628.1504	Silt Fence	LF	3,065.000	3,065.000	
076	628.1520	Silt Fence Maintenance	LF	3,065.000	3,065.000	
078	628.1905	Mobilizations Erosion Control	EACH	3.000	3.000	
080	628.1910	Mobilizations Emergency Erosion Control	EACH	2.000	2.000	
082	628.2008	Erosion Mat Urban Class I Type B	SY	11,350.000	11,350.000	
084	628.7555	Culvert Pipe Checks	EACH	95.000	95.000	
086	628.7570	Rock Bags	EACH	119.000	119.000	
088	629.0210	Fertilizer Type B	CWT	8.000	8.000	
090	630.0120	Seeding Mixture No. 20	LB	407.000	407.000	
092	631.0300	Sod Water	MGAL	335.000	335.000	
094	634.0616	Posts Wood 4x6-Inch X 16-FT	EACH	27.000	27.000	
096	634.0618	Posts Wood 4x6-Inch X 18-FT	EACH	19.000	19.000	
98	637.2210	Signs Type II Reflective H	SF	173.280	173.280	
100	637.2230	Signs Type II Reflective F	SF	103.250	103.250	
02	638.2102	Moving Signs Type II	EACH	3.000	3.000	
04	638.2602	Removing Signs Type II	EACH	51.000	51.000	
06	638.3000	Removing Small Sign Supports	EACH	46.000	46.000	
08	642.5201	Field Office Type C	EACH	1.000	1.000	
10	643.0300	Traffic Control Drums	DAY	7,800.000	7,800.000	
112	643.0420	Traffic Control Barricades Type III	DAY	1,014.000	1,014.000	
114	643.0705	Traffic Control Warning Lights Type A	DAY	2,028.000	2,028.000	
116	643.0900	Traffic Control Signs	DAY	2,262.000	2,262.000	
18	643.5000	Traffic Control	EACH	1.000	1.000	
20	646.1020	Marking Line Epoxy 4-Inch	LF	37,432.000	37,432.000	
22	646.3020	Marking Line Epoxy 8-Inch	LF	1,820.000	1,820.000	
24	646.4520	Marking Line Same Day Epoxy 4-Inch	LF	3,326.000	3,326.000	
26	646.5020	Marking Arrow Epoxy	EACH	8.000	8.000	
28	646.5120	Marking Word Epoxy	EACH	4.000	4.000	
130	646.6120	Marking Stop Line Epoxy 18-Inch	LF	144.000	144.000	
32	649.0105	Temporary Marking Line Paint 4-Inch	LF	3,326.000	3,326.000	
34	650.5000	Construction Staking Base	LF	7,474.000	7,474.000	
36	650.5500	Construction Staking Curb Gutter and Curb & Gutter	LF	300.000	300.000	
38	650.8000	Construction Staking Resurfacing Reference	LF	11,294.000	11,294.000	
140	650.9910	Construction Staking Supplemental Control (project) 01. 6999-18-75	LS	1.000	1.000	
142	650.9920	Construction Staking Slope Stakes	LF	7,474.000	7,474.000	
144	690.0150	Sawing Asphalt	LF	820.000	820.000	
146	690.0250	Sawing Concrete	LF	6.000	6.000	

Estimate Of Quantities

age 3
age 3

					6999-18-75
Line	Item	Item Description	Unit	Total	Qty
0148	740.0440	Incentive IRI Ride	DOL	8,628.000	8,628.000
0150	ASP.1T0A	On-the-Job Training Apprentice at \$5.00/HR	HRS	300.000	300.000
0152	ASP.1T0G	On-the-Job Training Graduate at \$5.00/HR	HRS	600.000	600.000
0154	SPV.0060	Special 01. Reestablish Section Corner Monuments	EACH	4.000	4.000
0156	SPV.0195	Special 01. Base Aggregate Disintegrated Granite	TON	31.000	31.000

STA	REMOVING ASPHALTIC SURFACE								
STA SI DE LOCATI ON I NCH SY					204.0110				
STA SI DE LOCATI ON I NCH SY 56+28 LT DRI VEWAY 2 58 61+45 RT DRI VEWAY 2 54 62+13 RT DRI VEWAY 2 36 62+75 RT DRI VEWAY 2 47 65+92 RT DRI VEWAY 2 43 69+24 LT DRI VEWAY 2 66 71+98 RT DRI VEWAY 2 36 74+13 RT DRI VEWAY 2 36 75+09 RT DRI VEWAY 2 38 75+09 RT DRI VEWAY 2 40 81+77 RT DRI VEWAY 2 36 85+33 RT DRI VEWAY 2 50 87+26 RT DRI VEWAY 2 50 88+24 RT DRI VEWAY 2 45 88+96 RT DRI VEWAY 2 45					REMOVI NG				
STA SI DE LOCATI ON I NCH SY 56+28 LT DRI VEWAY 2 58 61+45 RT DRI VEWAY 2 54 62+13 RT DRI VEWAY 2 36 62+75 RT DRI VEWAY 2 47 65+92 RT DRI VEWAY 2 43 69+24 LT DRI VEWAY 2 66 71+98 RT DRI VEWAY 2 67 73+33 RT DRI VEWAY 2 36 74+13 RT DRI VEWAY 2 38 75+09 RT DRI VEWAY 2 36 81+77 RT DRI VEWAY 2 36 85+33 RT DRI VEWAY 2 36 87+26 RT DRI VEWAY 2 50 88+24 RT DRI VEWAY 2 45 88+96 RT DRI VEWAY 2 45					ASPHALTI C				
56+28 LT DRI VEWAY 2 58 61+45 RT DRI VEWAY 2 54 62+13 RT DRI VEWAY 2 36 62+75 RT DRI VEWAY 2 60 64+02 RT DRI VEWAY 2 47 65+92 RT DRI VEWAY 2 43 69+24 LT DRI VEWAY 2 66 71+98 RT DRI VEWAY 2 67 73+33 RT DRI VEWAY 2 36 74+13 RT DRI VEWAY 2 36 74+13 RT DRI VEWAY 2 38 75+09 RT DRI VEWAY 2 38 75+09 RT DRI VEWAY 2 50 76+78 RT DRI VEWAY 2 36 81+77 RT DRI VEWAY 2 36 85+33 RT DRI VEWAY 2 36 85+33 RT DRI VEWAY 2 36 85+24 RT DRI VEWAY 2 36 87+26 RT DRI VEWAY 2 36 88+24 RT DRI VEWAY 2 36 88+24 RT DRI VEWAY 2 36 88+96 RT DRI VEWAY 2 45 88+96 RT DRI VEWAY 2 45 88+96 RT DRI VEWAY 2 45 90+00 RT DRI VEWAY 2 47 93+32 LT DRI VEWAY 2 43 99+64 RT DRI VEWAY 2 44 100+32 RT DRI VEWAY 2 44				THI CKNESS	SURFACE				
61+45 RT DRI VEWAY 2 54 62+13 RT DRI VEWAY 2 36 62+75 RT DRI VEWAY 2 60 64+02 RT DRI VEWAY 2 47 65+92 RT DRI VEWAY 2 43 69+24 LT DRI VEWAY 2 66 71+98 RT DRI VEWAY 2 67 73+33 RT DRI VEWAY 2 36 74+13 RT DRI VEWAY 2 38 75+09 RT DRI VEWAY 2 50 76+78 RT DRI VEWAY 2 40 81+77 RT DRI VEWAY 2 36 85+33 RT DRI VEWAY 2 36 85+33 RT DRI VEWAY 2 50 87+26 RT DRI VEWAY 2 50 87+26 RT DRI VEWAY 2 50 88+24 RT DRI VEWAY 2 50 88+24 RT DRI VEWAY 2 50 88+96 RT DRI VEWAY 2 45 88+96 RT DRI VEWAY 2 45 90+00 RT DRI VEWAY 2 43 99+64 RT DRI VEWAY 2 43 99+64 RT DRI VEWAY 2 44 100+32 RT DRI VEWAY 2 44	STA	SI DE	LOCATI ON	I NCH	SY				
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62+75 RT DRI VEWAY 2 60 64+02 RT DRI VEWAY 2 47 65+92 RT DRI VEWAY 2 43 69+24 LT DRI VEWAY 2 66 71+98 RT DRI VEWAY 2 67 73+33 RT DRI VEWAY 2 36 74+13 RT DRI VEWAY 2 38 75+09 RT DRI VEWAY 2 50 76+78 RT DRI VEWAY 2 40 81+77 RT DRI VEWAY 2 36 85+33 RT DRI VEWAY 2 36 85+33 RT DRI VEWAY 2 36 85+34 RT DRI VEWAY 2 36 87+26 RT DRI VEWAY 2 50 87+26 RT DRI VEWAY 2 50 88+24 RT DRI VEWAY 2 45 88+96 RT DRI VEWAY 2 45 88+96 RT DRI VEWAY 2 34 90+00 RT DRI VEWAY 2 47 93+32 LT DRI VEWAY 2 43 99+64 RT DRI VEWAY 2 44 100+32 RT DRI VEWAY 2 44	61+45	RT	DRI VEWAY	2	54				
64+02 RT DRI VEWAY 2 47 65+92 RT DRI VEWAY 2 43 69+24 LT DRI VEWAY 2 66 71+98 RT DRI VEWAY 2 67 73+33 RT DRI VEWAY 2 36 74+13 RT DRI VEWAY 2 38 75+09 RT DRI VEWAY 2 50 76+78 RT DRI VEWAY 2 40 81+77 RT DRI VEWAY 2 36 85+33 RT DRI VEWAY 2 50 87+26 RT DRI VEWAY 2 50 88+24 RT DRI VEWAY 2 45 88+96 RT DRI VEWAY 2 34 90+00 RT DRI VEWAY 2 47 93+32 LT DRI VEWAY 2 43 99+64 RT DRI VEWAY 2 44 100+32 RT DRI VEWAY 2 44 102+53 </td <td>62+13</td> <td>RT</td> <td>DRI VEWAY</td> <td>2</td> <td>36</td>	62+13	RT	DRI VEWAY	2	36				
65+92 RT DRI VEWAY 2 43 69+24 LT DRI VEWAY 2 66 71+98 RT DRI VEWAY 2 67 73+33 RT DRI VEWAY 2 36 74+13 RT DRI VEWAY 2 38 75+09 RT DRI VEWAY 2 50 76+78 RT DRI VEWAY 2 40 81+77 RT DRI VEWAY 2 36 85+33 RT DRI VEWAY 2 50 87+26 RT DRI VEWAY 2 50 88+24 RT DRI VEWAY 2 45 88+96 RT DRI VEWAY 2 47 93+32 LT DRI VEWAY 2 43 99+64 RT DRI VEWAY 2 44 100+32 RT DRI VEWAY 2 44 102+53 RT GREEN VI STAS 4 54	62+75	RT	DRI VEWAY		60				
69+24 LT DRI VEWAY 2 666 71+98 RT DRI VEWAY 2 67 73+33 RT DRI VEWAY 2 36 74+13 RT DRI VEWAY 2 38 75+09 RT DRI VEWAY 2 50 76+78 RT DRI VEWAY 2 40 81+77 RT DRI VEWAY 2 36 85+33 RT DRI VEWAY 2 50 87+26 RT DRI VEWAY 2 50 88+24 RT DRI VEWAY 2 50 88+24 RT DRI VEWAY 2 50 88+96 RT DRI VEWAY 2 45 88+96 RT DRI VEWAY 2 45 99+64 RT DRI VEWAY 2 43 99+64 RT DRI VEWAY 2 43 100+32 RT DRI VEWAY 2 44 100+32 RT DRI VEWAY 2 44 102+53 RT GREEN VI STAS 4	64+02	RT	DRI VEWAY	2	47				
71+98 RT DRI VEWAY 2 67 73+33 RT DRI VEWAY 2 36 74+13 RT DRI VEWAY 2 38 75+09 RT DRI VEWAY 2 50 76+78 RT DRI VEWAY 2 40 81+77 RT DRI VEWAY 2 36 85+33 RT DRI VEWAY 2 50 87+26 RT DRI VEWAY 2 50 88+24 RT DRI VEWAY 2 45 88+96 RT DRI VEWAY 2 34 90+00 RT DRI VEWAY 2 47 93+32 LT DRI VEWAY 2 43 99+64 RT DRI VEWAY 2 44 100+32 RT DRI VEWAY 2 44 102+53 RT GREEN VI STAS 4 54	65+92	RT	DRI VEWAY	2	43				
73+33 RT DRI VEWAY 2 36 74+13 RT DRI VEWAY 2 38 75+09 RT DRI VEWAY 2 50 76+78 RT DRI VEWAY 2 40 81+77 RT DRI VEWAY 2 36 85+33 RT DRI VEWAY 2 50 87+26 RT DRI VEWAY 2 50 88+24 RT DRI VEWAY 2 45 88+96 RT DRI VEWAY 2 34 90+00 RT DRI VEWAY 2 47 93+32 LT DRI VEWAY 2 43 99+64 RT DRI VEWAY 2 44 100+32 RT DRI VEWAY 2 44 102+53 RT GREEN VI STAS 4 54	69+24	LT	DRI VEWAY	2	66				
74+13 RT DRI VEWAY 2 38 75+09 RT DRI VEWAY 2 50 76+78 RT DRI VEWAY 2 40 81+77 RT DRI VEWAY 2 36 85+33 RT DRI VEWAY 2 50 87+26 RT DRI VEWAY 2 50 88+24 RT DRI VEWAY 2 45 88+96 RT DRI VEWAY 2 34 90+00 RT DRI VEWAY 2 47 93+32 LT DRI VEWAY 2 43 99+64 RT DRI VEWAY 2 44 100+32 RT DRI VEWAY 2 44 102+53 RT GREEN VI STAS 4 54	71+98	RT	DRI VEWAY	2	67				
75+09 RT DRI VEWAY 2 50 76+78 RT DRI VEWAY 2 40 81+77 RT DRI VEWAY 2 36 85+33 RT DRI VEWAY 2 50 87+26 RT DRI VEWAY 2 50 88+24 RT DRI VEWAY 2 45 88+96 RT DRI VEWAY 2 34 90+00 RT DRI VEWAY 2 47 93+32 LT DRI VEWAY 2 43 99+64 RT DRI VEWAY 2 44 100+32 RT DRI VEWAY 2 44 102+53 RT GREEN VI STAS 4 54	73+33	RT	DRI VEWAY	2	36				
76+78 RT DRI VEWAY 2 40 81+77 RT DRI VEWAY 2 36 85+33 RT DRI VEWAY 2 50 87+26 RT DRI VEWAY 2 45 88+24 RT DRI VEWAY 2 45 88+96 RT DRI VEWAY 2 34 90+00 RT DRI VEWAY 2 47 93+32 LT DRI VEWAY 2 43 99+64 RT DRI VEWAY 2 44 100+32 RT DRI VEWAY 2 44 102+53 RT GREEN VI STAS 4 54	74+13	RT	DRI VEWAY	2	38				
81+77 RT DRI VEWAY 2 36 85+33 RT DRI VEWAY 2 50 87+26 RT DRI VEWAY 2 50 88+24 RT DRI VEWAY 2 45 88+96 RT DRI VEWAY 2 34 90+00 RT DRI VEWAY 2 47 93+32 LT DRI VEWAY 2 43 99+64 RT DRI VEWAY 2 44 100+32 RT DRI VEWAY 2 44 102+53 RT GREEN VI STAS 4 54	75+09	RT	DRI VEWAY	2	50				
85+33 RT DRI VEWAY 2 50 87+26 RT DRI VEWAY 2 50 88+24 RT DRI VEWAY 2 45 88+96 RT DRI VEWAY 2 34 90+00 RT DRI VEWAY 2 47 93+32 LT DRI VEWAY 2 43 99+64 RT DRI VEWAY 2 44 100+32 RT DRI VEWAY 2 44 102+53 RT GREEN VI STAS 4 54	76+78	RT	DRI VEWAY	2	40				
87+26 RT DRI VEWAY 2 50 88+24 RT DRI VEWAY 2 45 88+96 RT DRI VEWAY 2 34 90+00 RT DRI VEWAY 2 47 93+32 LT DRI VEWAY 2 43 99+64 RT DRI VEWAY 2 44 100+32 RT DRI VEWAY 2 44 102+53 RT GREEN VI STAS 4 54	81+77	RT	DRI VEWAY	2	36				
88+24 RT DRI VEWAY 2 45 88+96 RT DRI VEWAY 2 34 90+00 RT DRI VEWAY 2 47 93+32 LT DRI VEWAY 2 43 99+64 RT DRI VEWAY 2 44 100+32 RT DRI VEWAY 2 44 102+53 RT GREEN VI STAS 4 54	85+33	RT	DRI VEWAY	2	50				
88+96 RT DRI VEWAY 2 34 90+00 RT DRI VEWAY 2 47 93+32 LT DRI VEWAY 2 43 99+64 RT DRI VEWAY 2 44 100+32 RT DRI VEWAY 2 44 102+53 RT GREEN VI STAS 4 54	87+26	RT	DRI VEWAY	2	50				
90+00 RT DRI VEWAY 2 47 93+32 LT DRI VEWAY 2 43 99+64 RT DRI VEWAY 2 44 100+32 RT DRI VEWAY 2 44 102+53 RT GREEN VI STAS 4 54	88+24	RT	DRI VEWAY	2	45				
93+32 LT DRI VEWAY 2 43 99+64 RT DRI VEWAY 2 44 100+32 RT DRI VEWAY 2 44 102+53 RT GREEN VI STAS 4 54	88+96	RT	DRI VEWAY	2	34				
99+64 RT DRI VEWAY 2 44 100+32 RT DRI VEWAY 2 44 102+53 RT GREEN VI STAS 4 54	90+00	RT	DRI VEWAY	2	47				
100+32 RT DRI VEWAY 2 44 102+53 RT GREEN VI STAS 4 54	93+32	LT	DRI VEWAY	2	43				
102+53 RT GREEN VI STAS 4 54	99+64	RT	DRI VEWAY	2	44				
	100+32	RT	DRI VEWAY	2	44				
<u>122+73 LT DRI VEWAY 2 150</u>	102+53	RT	GREEN VI STAS	4	54				
	122+73	LT	DRI VEWAY	2	150				

TOTAL 1, 192

REMOVING CURB AND GUTTER

STA - STA

204. 0150 REMOVING CURB LOC LF 101+54 - 104+04 LT 250 #2100 - DRI VE LT LT 25 #2100 - DRI VE RT LT 25 TOTAL 300

REMOVING ASPHALTIC SURFACE MILLING 204. 0120 REMOVI NG ASPHALTI C

			SURFACE
			MI LLI NG
STA - STA	LOCAT	I ON	SY
125+30 - 127+89		CTH N	1, 266
127+89 - 129+01	TURN TAPER	CTH N	610
129+01 - 131+17		CTH N	1, 296
131+17 - 132+48	INTERSECTION TAPER	CTH N	888
I NTERSECTI ON	CTH N/CTH X		1, 428
133+75 - 134+60	INTERSECTION TAPER	CTH N	434
134+60 - 135+85	GR LEFT	CTH N	569
135+85 - 137+32	GR BOTH	CTH N	751
137+32 - 138+10	TURN TAPER/GR	CTH N	373
138+10 - 143+37	GR BOTH	CTH N	2, 342
143+37 - 146+15		CTH N	927
304+26 - 305+26		CTH X	389
305+26 - 308+05		CTH X	1, 240
308+05 - 309+05	TURN LANE TAPER	CTH X	467
309+05 - 312+00		CTH X	1, 442
312+00 - 312+55	INTERSECTION TAPER	CTH X	290
313+95 - 317+45		CTH X	1, 711
317+45 - 318+01	TURN LANE TAPER	CTH X	261
318+01 - 320+90		CTH X	1, 284
320+90 - 321+90	TURN LANE TAPER	SB CTH X	389

TOTALS 18, 357

REMOVING ASPHALTIC SURFACE BUTT JOINTS

204. 0115 REMOVI NG ASPHALTI C SURFACE BUTT JOINTS STA-STA LOCATI ON SY CTH N 10 146+15 CTH X 13 304+26 CTH X 322+56 13 TOTAL 36

ALL ITEMS CATEGORY 0010 UNLESS NOTED

HWY: CTH N COUNTY: MARATHON MISCELLANEOUS QUANTITIES SHEET: PROJECT NO: 6999-18-75 Ε

75

75

	<u>EARTHWORK</u>		
		205. 0100	
		EXCAVATI ON	208.0100
		COMMON	BORROW
STA	LOCATI ON	CY	CY
51+56. 00	WEST TRANS-BASE REMOVAL	119	
81+00.00	CTH N INSLOPES		773
125+30.00	CTH N INSLOPES		1731

2519 **TOTALS** 500

164

217

15

Division	From/To Station	Location	Common Excavation Cut (2)	Unusable Material See Comment		Unexpanded Fill	Expanded Fill (2) Factor 1.30	Mass Ordinate +/- (3)	Waste	Comment:
	50+56	51+56	119	119	0	0	0	0		Waste Existing base
	51+56	81+00	0	0	0	595	773	-773		
	81+00	124+30	0	0	0	1332	1731	-1731		
	124+30	125+30	164	164	0	12	15	-15		Waste Existing base
Division Sub	total		284	284	0	1938	2519	-2519	284	
PROJEC	CT 6999-18-75	TOTAL	284	284	0	1938	2519	-2519	284	

125+30.00 EAST TRANS-BASE REMOVAL

UNDI STRI BUTED

1) Available Material = Cut -Unusuable Material

STA

50+56.00

50+56.00

81+00.00

124+30.00

- 2) Expanded Fill. Factor = 1.3
- 3) 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.

PREP AND FINISH

211.0100 PREPARE FOUNDATI ON 213. 0100 FOR ASPHALT FINISHING **PAVEMENT** ROADWAY LOCATI ON EACH LS **PROJECT** 1 **TOTALS**

					000.00	000.0.20	0 0.70. 0.	
					BASE AGG	BASE AGG	BASE AGG	
					DENSE	DENSE	DI SI NTEGRATED	624. 0100
					3/4-I NCH	1 1/4-I NCH	GRANI TE	WATER
_	STA	-	STA	LOCATI ON	TON	TON	TON	MGAL
	50+56.00	-	51+56.00	CTH N LT	8	272		
	51+56. 00	-	54+56.00	CTH N LT	25			
	54+56.00	-	68+86.00	CTH N LT	199			
	69+60.00	-	79+82.00	CTH N LT	142			
	81+32. 00	-	101+54.00	CTH N LT	281			
	101+54.00	-	104+04.00	CTH N LT		46		
	104+04.00	-	111+73.00	CTH N LT	107			
	111+73.00	-	118+73.00	CTH N LT	136			
	118+73.00	-	124+30.00	CTH N LT	170			
	124+30.00	-	125+30.00	CTH N LT	31	421		
	50+56.00	-	51+56.00	CTH N RT	8	272		
	51+56.00	_	53+35.00	CTH N RT	15			
	54+76.00	-	70+02.00	CTH N RT	212			
	71+55. 00	-	79+96.00	CTH N RT	117			
	81+17.00	-	101+63.00	CTH N RT	284			
	103+57.00	-	119+01.00	CTH N RT	214			
	120+65.00	-	124+30.00	CTH N RT	51			
	124+30.00	-	125+30.00	CTH N RT	14	231		
			I NTERSECTI ON	SKYLI NE	18	194		
			I NTERSECTI ON	GLENWOOD	16	187		
			I NTERSECTI ON	HAWTHORNE	14	169		

14

25

81

109

2291

163

208

118

114

2395

BASE AGGREGATE

305.0110

305. 0120

SPV. 0195. 01

GRADING AND SHAPING

25TH

POPLAR

TOTALS

UNDI STRI BUTED

I NTERSECTI ON

I NTERSECTI ON

DRIVEWAYS AND FIELD ENTRANCES

205. 9010. S GRADING AND SHAPING INTERSECTION

11

20

31

			GRADING AND SHALLING THIERSECTION						
	APPROX EARTHWORK		01	. 02	. 03	. 04	. 05		
	CUT	FI LL	SKYLI NE	GLENWOOD	HAWTHORNE	25TH AVE	POPLAR		
LOCATI ON	CY	CY	LS	LS	LS	LS	LS		
SKYLINE LANE	94	10	1						
GLENWOOD ROAD	91	17		1					
HAWTHORNE LANE	86	34			1				
25TH AVE S	80	55				1			
POPLAR LANE	96	26					1		
TOTALS			1	1	1	1	1		

ALL ITEMS CATEGORY 0010 UNLESS NOTED

PROJECT NO: 6999-18-75 MISCELLANEOUS QUANTITIES SHEET: HWY: CTH N COUNTY: MARATHON Ε

3

SHAPING SHOULDERS

STA	_	STA	LOCATI ON	305. 0500 SHAPI NG SHOULDERS STA
125+30	-	132+50	CTH N	16
133+75	-	146+15	CTH N	24
304+26	-	312+50	CTH X	16
313+75	-	322+56	CTH X	18
TOTALS				74

PULVERIZE AND RELAY

STA	_	STA	LOCATI ON	325. 0100 PULVERI ZE AND RELAY SY	374. 1010. S QMP PULVERIZE AND RELAY SY
51+56	-	53+43		707	707
53+43	-	54+43		356	356
54+43	-	98+94		14837	14837
98+94	-	101+54		1040	1040
101+54	-	104+04		1112	1112
104+04	-	105+75		684	684
105+75	_	111+73		1994	1994
111+73		118+50		2784	2784
118+50		124+30		2836	2836
		TOTAL	-	26, 350	26, 350

HMA PAVEMENT

				455. 0605	HMA PAVEMENT	HMA PAVEMEN
CTA CTA	LOCATI	LON		TACK COAT	3 LT 58-28 S	5 LT 58-28
STA - STA	LOCATI	I UN		GAL	TON	TON
50+56 - 54+56			CTH N	91	196	152
54+56 - 99+10			CTH N	891	1, 921	1, 494
99+10 - 101+54	WI DENI NG-BYPASS		CTH N	59	126	98
101+54 - 104+04	BYPASS		CTH N	67	144	112
104+04 - 105+67	WI DENI NG-BYPASS		CTH N	39	84	66
105+67 - 113+48			CTH N	156	337	262
113+48 - 118+73	WI DENI NG-CLI MBI NG		CTH N	130	279	217
118+73 - 125+30			CTH N	193	416	323
125+30 - 127+89			CTH N	76		127
127+89 - 129+01	TURN TAPER		CTH N	37		61
129+01 - 131+17			CTH N	78		130
131+17 - 132+48	INTERSECTION TAPER		CTH N	53		89
I NTERSECTI ON	CTH N/CTH X			86		144
133+75 - 134+60	INTERSECTION TAPER		CTH N	26		44
134+60 - 135+85	GR LEFT		CTH N	34		57
135+85 - 137+32	GR BOTH		CTH N	45		76
137+32 - 138+10	TURN TAPER/GR		CTH N	22		37
138+10 - 143+37	GR BOTH		CTH N	141		236
143+37 - 146+15			CTH N	56		93
I NTERSECTI ON	SKYLI NE		CTH N	19	41	32
I NTERSECTI ON	GLENWOOD		CTH N	18	40	31
I NTERSECTI ON	HAWTHORNE		CTH N	17	36	28
I NTERSECTI ON	25TH		CTH N	16	35	27
I NTERSECTI ON	POPLAR		CTH N	20	44	34
304+26 - 305+26			CTH X	23		39
305+26 - 308+05			CTH X	74		125
308+05 - 309+05	TURN LANE TAPER		CTH X	28		47
309+05 - 312+00			CTH X	87		145
312+00 - 312+55	INTERSECTION TAPER		CTH X	17		29
313+95 - 317+45			CTH X	103		172
317+45 - 318+01	TURN LANE TAPER		CTH X	16		26
318+01 - 320+90			CTH X	77		129
	TURN LANE TAPER	SB	CTH X	23		39

TOTALS 2, 818 3, 699 4, 721

460. 5223

460. 5225

PROJECT NO: 6999-18-75	HWY: CTH N	COUNTY: MARATHON	MISCELLANEOUS QUANTITIES	SHEET:	E
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CONCRETE CURB AND GUTTER

601.0576

CONCRETE

ALL ITEMS CATEGORY 0010 UNLESS NOTED

SHEET:

Е

	STAT	FION - STATION	N STATION	HMA PAVEMENT LONGI TUDI NAL JOI NTS LF	STA -	STA	LOCATI ON	465.0315 ASPHALTIC FLUMES SY	STA	- ST	A LOC	CON CURB A T	01.011 NCRETE AND GUTTER YPE D LF	CURE	3 AND GUTTER 4-INCH SLOPED INCH TYPE J LF
		+30 - 146+15 +26 - 322+56		2, 100 1, 800	#2100 LT #2100 RT	LT LT	DRI VEWAY DRI VEWAY	4 6	101+5 ⁴ #2100	4 - 104 _∃			 25		250
	T01	ΓAL		3, 900			TOTAL	10	#2100		E RT LT		25		
		ACDUAL TI	C CUDEACE								TOTA	\L	50		250
		ASPRALITY	C SURFACE THI CKNESS	465.0120 ASP SURF DRIVEWAYS & FIELD ENTRANCES								<u>ADJUSTI N</u>	G GUARDRA	ALL.	
STA		LOCATI ON	I NCH	TON										. 0400	614. 0950
56+28	LT	DRI VEWAY	2	6. 2										JSTI NG _ PLATE	REPLACI NG GUARDRAI L
61+45	RT	DRI VEWAY	2	6. 1										EAM	POSTS AND
62+13	RT	DRI VEWAY	2	3. 9										JARD	BLOCKS
62+75	RT	DRI VEWAY	2	6. 9						STA -	STA	LOCATI ()N	LF	EACH
64+02	RT	DRI VEWAY	2	5. 4					-						
65+92	RT	DRI VEWAY	4	15. 1						104.04	4.40.00	0 .			70
71+98	RT	DRI VEWAY	2	7. 7						134+34 -		CTH N		904	70
73+33	RT	DRI VEWAY	2	3. 9						135+82 -	143+37	CTH N	RT 7	755	60
74+13	RT	DRI VEWAY	2	5. 1								TOTALC		450	120
75+09	RT	DRI VEWAY	2	6. 6								TOTALS	1,	659	130
76+78	RT	DRI VEWAY	2	4. 3											
81+77	RT	DRI VEWAY	2	3. 9											
85+33	RT	DRI VEWAY	2	5. 3									IONUMENTS		
87+26 88+24	RT RT	DRI VEWAY DRI VEWAY	2 2	5. 3								Δ	IONUMENTS		CDV 00/0 01
88+96	RT	DRI VEWAY	2	4. 1 3. 7									621. 010 LANDMAI		SPV. 0060. 01 REESTABLI SH
90+00	RT	DRI VEWAY	2	5. 4									REFEREN		SECTION CORNER
93+32	LT	DRI VEWAY	2	4. 9									MONUMEN		MONUMENTS
99+64	RT	DRI VEWAY	2	4. 7							LOCATI	ON	EACH		EACH
100+32	RT	DRI VEWAY	2	4. 7						-	200/111	J.13	Liton		L 1011
102+53	RT	GREEN VISTAS		53. 7						OUA	ARTER COR	NER 31-6	4		1
122+73	LT	DRI VEWAY	2	17. 3								R 31-32-6-	5 4		1
												NER 32-5	4		1
		TOTAL		184						SECTI	ON CORNER	R 32-33-5-	4 4		1
		ASP	PHALTIC SUR	RFACE PATCHING	4/5 0442							TOTALS	16		4
					465. 0110 ASPHALTI C SURFACE										
			LOCAT	TI ON	PATCHI NG TON	_									
MILL AND		AY SUBSURFACE INDI STRI BUTED)		S CTH N/ CTH X INTERSECTION	20										

20

COUNTY: MARATHON

MISCELLANEOUS QUANTITIES

TOTALS

HWY: CTH N

PROJECT NO: 6999-18-75

ASPHALTIC FLUMES

ASPHALTIC JOINT

460. 4110. S

REHEATI NG

HMA PAVEMENT

SALVAGED TOPSOIL.	EROSI ON	MAT.	FERTI LI ZER.	AND	SEEDING
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				TOTA	L	14, 975	8	407	1, 285	335	11, 350
		J. 101 01				1, 400	ı	70		J1	1, 030
		UNDLST	RI BUTED	J		1, 400	1	40		31	1, 030
	104+00	_	125+30	CTH N	LT	1, 970	0. 1	53		44	
	102+00	_	104+00	CTH N	LT	110	1. 3	3	110	2	
	80+50	_	102+00	CTH N	LT	2, 050	0. 8	55		46	2050
	69+00	_	80+50	CTH N	LT	1, 235	0. 7	33		28	1235
	55+00	_	69+00	CTH N	LT	1, 150	0. 1	31		26	1150
	50+56	_	55+00	CTH N	LT	180	0. 0	5	180	4	
	120+00	-	125+30	CTH N	RT	430	1. 2	12		10	430
	103+50	_	120+00	CTH N	RT	1, 835	1. 6	50		41	1835
	80+50	_	102+00	CTH N	RT	2, 470	0. 1	67		55	2470
	76+75	_	80+50	CTH N	RT	220	0. 3	6	220	5	
	71+00	-	76+75	CTH N	RT	405	0. 5	11		9	405
	66+00	_	71+00	CTH N	RT	745	0. 4	20		17	745
	54+00	-	66+00	CTH N	RT	620	0. 1	17	620	14	
	50+56	_	54+00	CTH N	RT	155	0. 0	4	155	3	
_	STA		STA	LOC		SY	CWT	LB	SY	MGAL	SY
						TOPSOI L	TYPE B	NO. 20	MULCHI NG	WATER	TYPE B
							FERTI LI ZER	MI XTURE	627. 0200	SOD	CLASS I
							629. 0210	SEEDI NG		631. 0030	URBAN
								630. 0120			E MAT
											628. 2008

SILT FENCE

					628. 1520					
					628. 1504	SI LT	628. 7570			
					SILT	FENCE	ROCK			
					FENCE	MAI NT	BAGS			
	STA	-	STA	LOC	FT	FT	EACH			
							·			
	68+50	-	69+50	RT	100	100	15			
	77+00	-	80+00	RT	400	400	15			
	78+00	-	80+00	LT	250	250				
	80+75	-	81+50	LT	125	125				
	94+40	-	98+40	LT	400	400	15			
	112+50	-	125+40	RT	1290	1290	30			
	DI TCH	H CH	ECKS		0	0	24			
	UNDI S	TRU	BUTED	_	500	500	20			
TOTAL			3065	3065	119					

MOBILIZATION EROSION CONTROL

		628. 1910
	628. 1905	MOBI LI ZATI ON
	MOBI LI ZATI ON	EMERGENCY
	EROSI ON	EROSI ON
	CONTROL	CONTROL
LOCATI ON	EACH	EACH
PROJECT	3	2
TOTALS	3	2

CULVERT PIPE CHECKS

STA		628. 7555 CULVERT PI PE CHECKS EACH
69+00	LT	2
69+68	LT	2
79+11	LT	2
80+85	LT	2
80+81	RT	2
94+74	LT	3
114+66	RT	2
119+40	RT	4
DRI VES		60
UNDI STR	I BUTED	16
	TOTAL	95

PROJECT NO: 6999-18-75 HWY: CTH N	COUNTY: MARATHON	MISCELLANEOUS QUANTITIES	SHEET: E
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638.3000

637. 2230

PI	ROJECT NO: 6999-18-75	HWY: CTH N	COUNTY: MARATHON	MISCELLANEOUS QUANTITIES	SHEET:	E
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						637. 2230					638. 3000
					637. 2210	SI GNS	POSTS	WOOD	638. 2102	638. 2602	REMOVI NG
					SI GNS	FLORECENT	634. 0616	634. 0618	MOVI NG	REMOVI NG	SMALL
					REFLECTI VE	REFLECTI VE I	F 4X6 INCH	4X6 INCH	SI GNS	SIGNS	SIGN
	SI GN	SHAPE SIGN SIZE			TYPE II	TYPE II	16 FT	18 FT	TYPE II	TYPE II	SUPPORTS
SIGN #	CODE	T, O, R, D IN X IN	MESSAGE		SF	SF	EACH	EACH	EACH	EACH	EACH
05 - 09	R1-1	0 30 X 30	STOP		5. 18		1			1	1
05 - 10	R1-3P	R 18 X 6	ALL WAY		0. 75					1	
05 - 11	W3-1	R 36 X 36	STOP AHEAD			9. 00		1		1	1
05 - 12	J1-1	R 24 X 39	JCT COUNTY N		6. 50			1		1	1
05 - 13	R2-1	R 24 X 30	SPEED LIMIT 45		5. 00		1			1	1
				SUBTOTAL	17. 43	9. 00	2	2	0	5	4
				TOTALS	173. 28	103. 25	27	19	322	48	46

TRAFFIC CONTROL DEVICES

		643. 5000			643. C)420	643. 0 WARN			
		TRAFFIC	643. (0300	BARRI C	CADES	LI GH	ITS	643.0)900
		CONTROL	TC DI	RUMS	TYPE	111	TYPE	. A	TC SI	GNS
	SERVI CE		ΙN		ΙN		ΙN		ΙN	
LOCATI ON	DAYS	EACH	SERVI CE	DAYS	SERVI CE	DAYS	SERVI CE	DAYS	SERVI CE	DAYS
PROJECT		1								
ROAD CLOSED TO TRAFFIC	78		100	7800	13	1014	26	2028	29	2, 262
DETOUR	78									
UNDI STRI BUTED										
TOTA	۱L	1		7, 800		1, 014		2, 028		2, 262

PROJECT NO: 6999-18-75	HWY: CTH N	COUNTY: MARATHON	MISCELLANEOUS QUANTITIES	SHEET:	7
1 1100201110: 0000 10 10	'''' ''		Wild Select Wile Select Go, Williams	0112211	⊏

			646. ARKING LINE LLOW)	1020 EPOXY 4-1 No		MARKING LI	. 4520 NE SAME DAY NCH(YELLOW)	646. 3020 MARKI NG LI NE EPOXY 8-I NCH	646. 5020 MARKI NG ARROW	646. 5120 MARKI NG WORD	646. 6120 MARKI NG STOP LI NE EPOXY	TEMPORARY					
		SKIP	CENTER	EDGE	DASH	SKI P	CENTER	WHI TE	EP0XY	EP0XY	18-I NCH	4-I NCH					
STA -	STA	LF	LF	LF	LF	LF	LF	LF	EA	EA	LF	<u>LF</u>		CAWLNC	CDUALT		
50 (4	50.50		070	070										SAWING A		690. 0150	690. 0250
50+64 -	52+50 52+50		372	372	 2E											SAWI NG	SAWI NG
52+50 - 53+50 -	53+50 54+50		200 200	100 100	25											ASPHALT	CONCRETE
54+50 -	69+50		3, 000	3, 000									STA	LOCAT		LF	LF
69+50 -	70+50		200	100	25												
70+50 -	71+40		180	90									50+56	BEGIN PF	OJECT	34	
71+40 -	79+00		1, 520	1, 520									125+30	PULVERI ZE/MI	LL LIMITS	44	
79+00 -	80+00		200	100	25								146+15	END PRO	JECT	30	
80+00 -	81+00		200										304+26X	BEGIN CONS		30	
81+00 -	82+00		200	100	25								321+56X	END CONST		30	
82+00 -	101+00		3, 800	3, 800										SKYLI		22	
101+00 -	101+50		100	100										DRIVE #		39	6
101+50 -	104+00		500	250	63									GLENW HAWTHO		22 22	
101+50 -	104+00 118+40		 2, 880	2, 880	63									GREEN V		125	
<u>104+00 -</u> 118+40 -	119+40		200	100	25									POPL		22	
119+40 -	120+50		220	110										RES DRIV		325	
120+50 -	129+00		1, 700	1, 700										UNDI STRI		75	
120+50 -	132+40				298												
129+00 -	132+40		680	680				340	2	1	36				TOTAL	820	6
133+40 -	139+00			560	140	140	560	560	2	1	36	700					
139+00 -	146+15			1, 430		179						179					
304+26 -	309+00			948			948					948					
309+00 -	312+80			760		405	760	380	2	1	36	760					
313+60 - 319+00 -	319+00 321+56			1, 080 512		135 64	540	540	2	1	36	675 64					
319+00 -	321+30			512		04						04					
	TOTAL	16	, 352		080	3,	326	1, 820	8	4	144	3, 326					
			37,	432								CONSTR	UCTION STAKING				
												<u>oono i k</u>	oon on on on	650. 8000	650. 9910	650). 9920
												650. 5000 CONSTRUCTI ON STAKI NG BASE	650.5500 CONSTRUCTION STAKING CURB AND GUTTER	CONSTRUCTI ON STAKI NG RESURFACI NG REFERENCE	CONSTRUCTI ON STAKI NG SUPPLI MENTAL CONTROL	N CONST STA - SI	FRUCTI ON AKI NG LOPE FAKES
								STA	- STA	LOCA	TI ON	LF	LF	LF	LS		<u>LF</u>
								DDO	JECT	CTI					1		
									- 125+30	CTI CTI		 7, 474	300	 7, 474	1 		 7474
								125+30	146+15	CTI		7,474		2, 085			
								120100	1 10 1 10	UII							
								304+25	321+60	CTI	A X			1, 735			

MISCELLANEOUS QUANTITIES

COUNTY: MARATHON

ALL ITEMS CATEGORY 0010 UNLESS NOTED

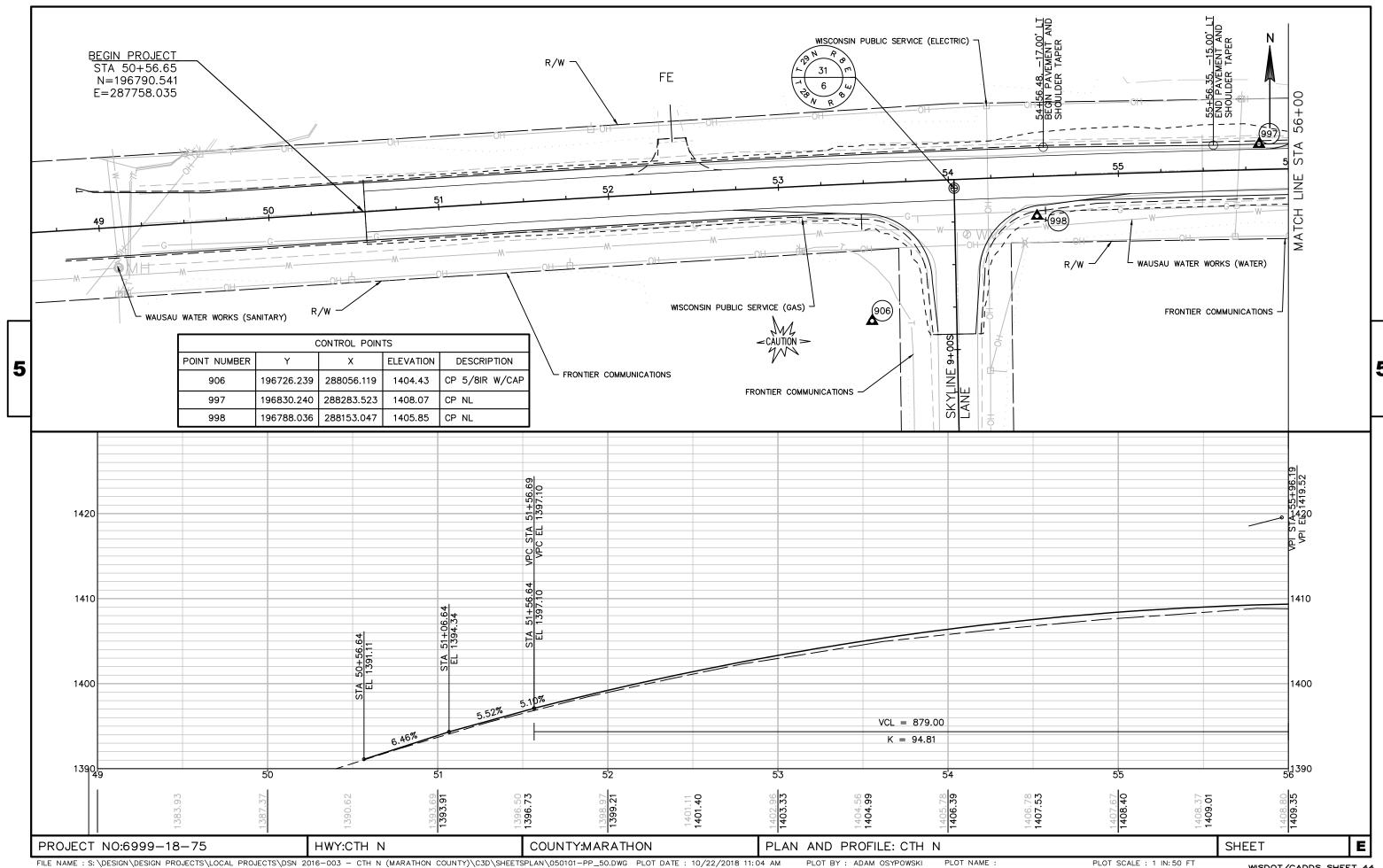
SHEET:

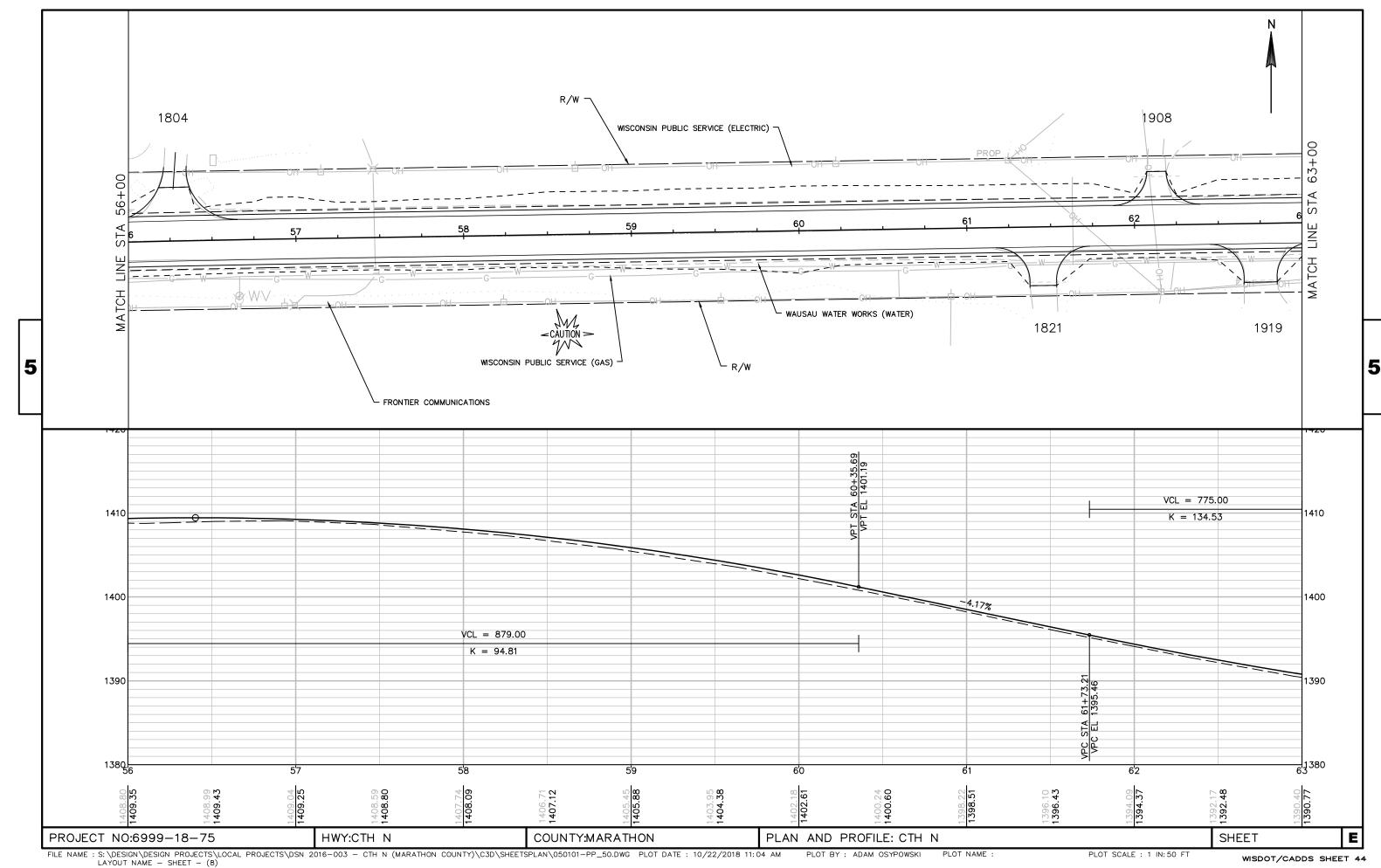
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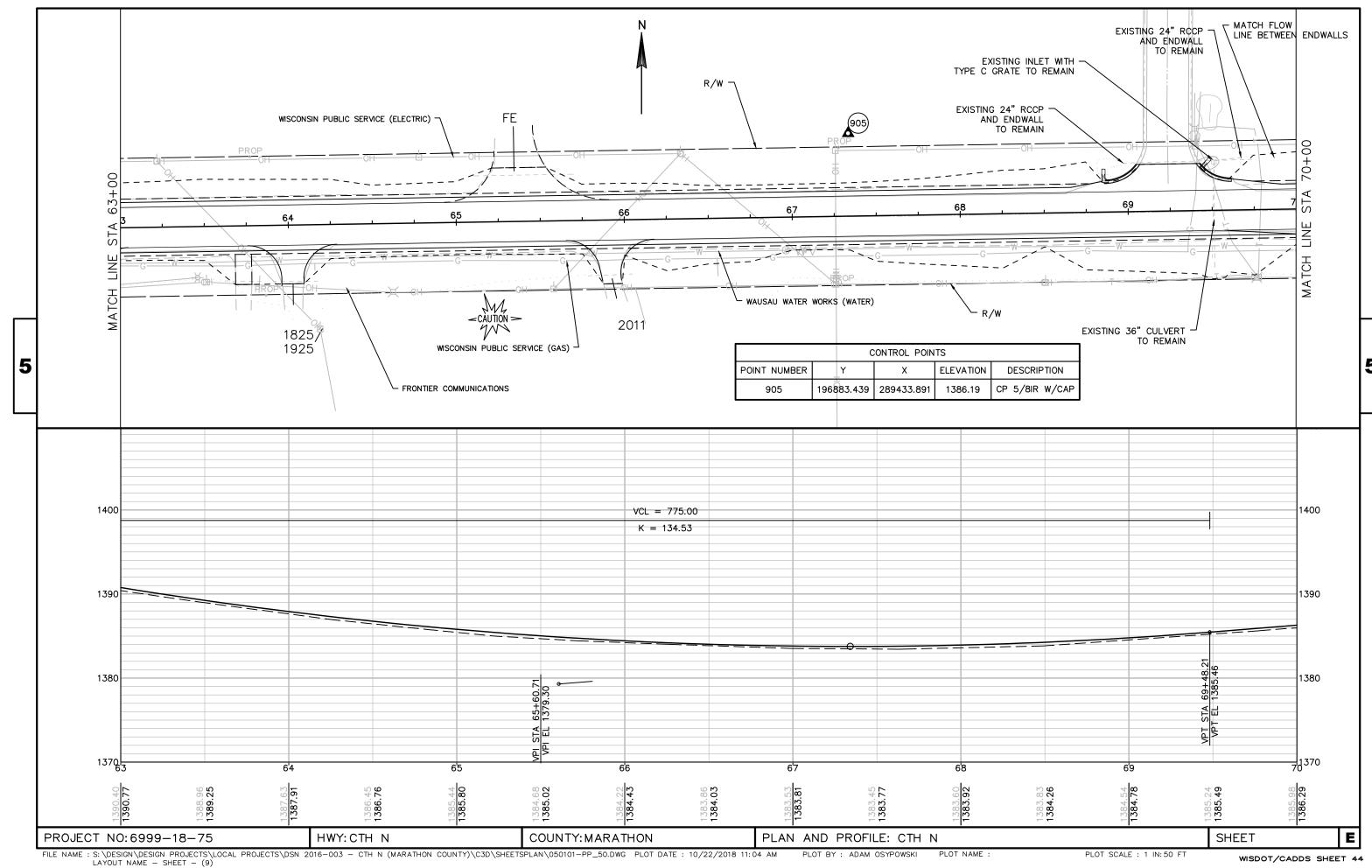
PAVEMENT MARKING

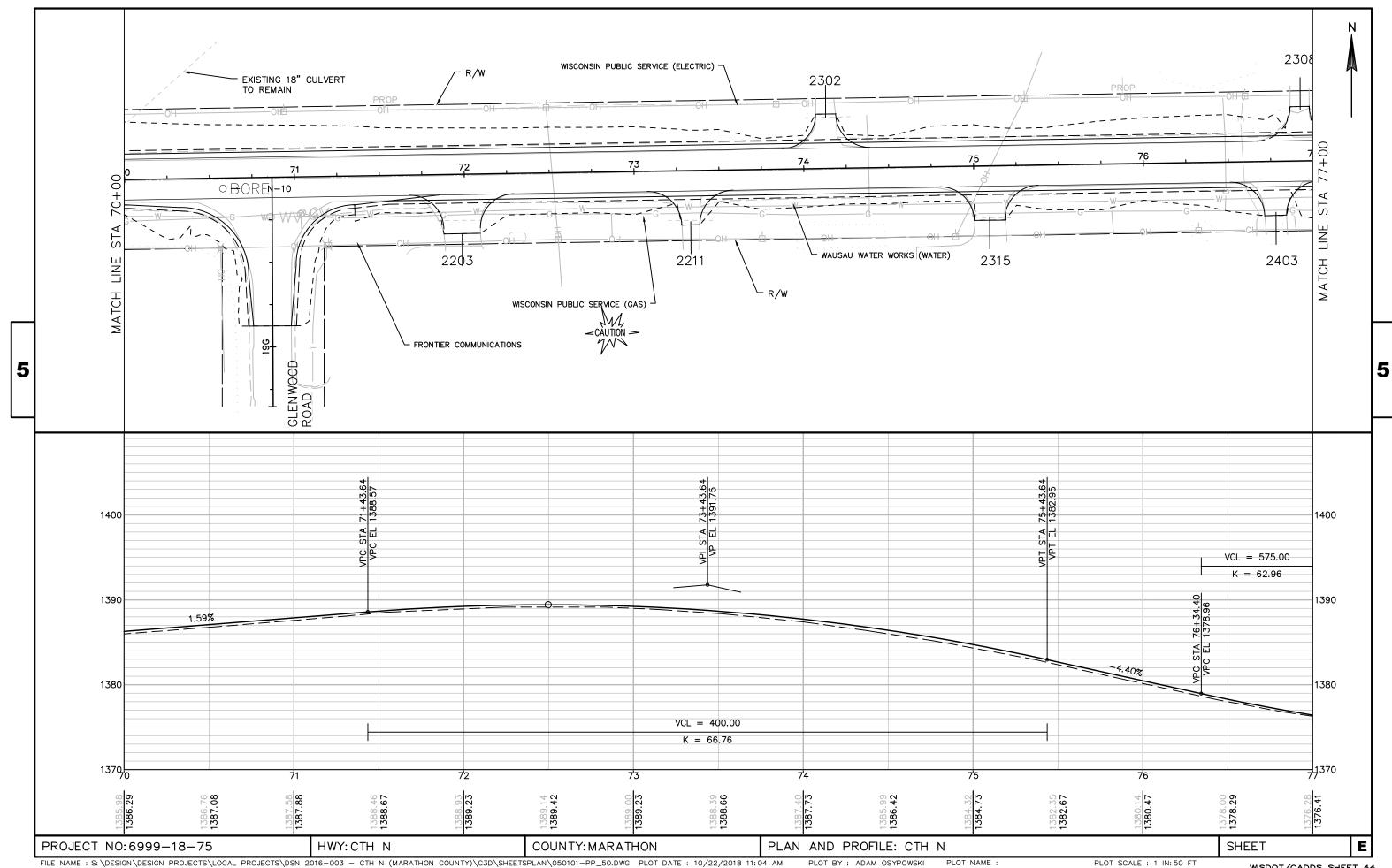
PROJECT NO: 6999-18-75

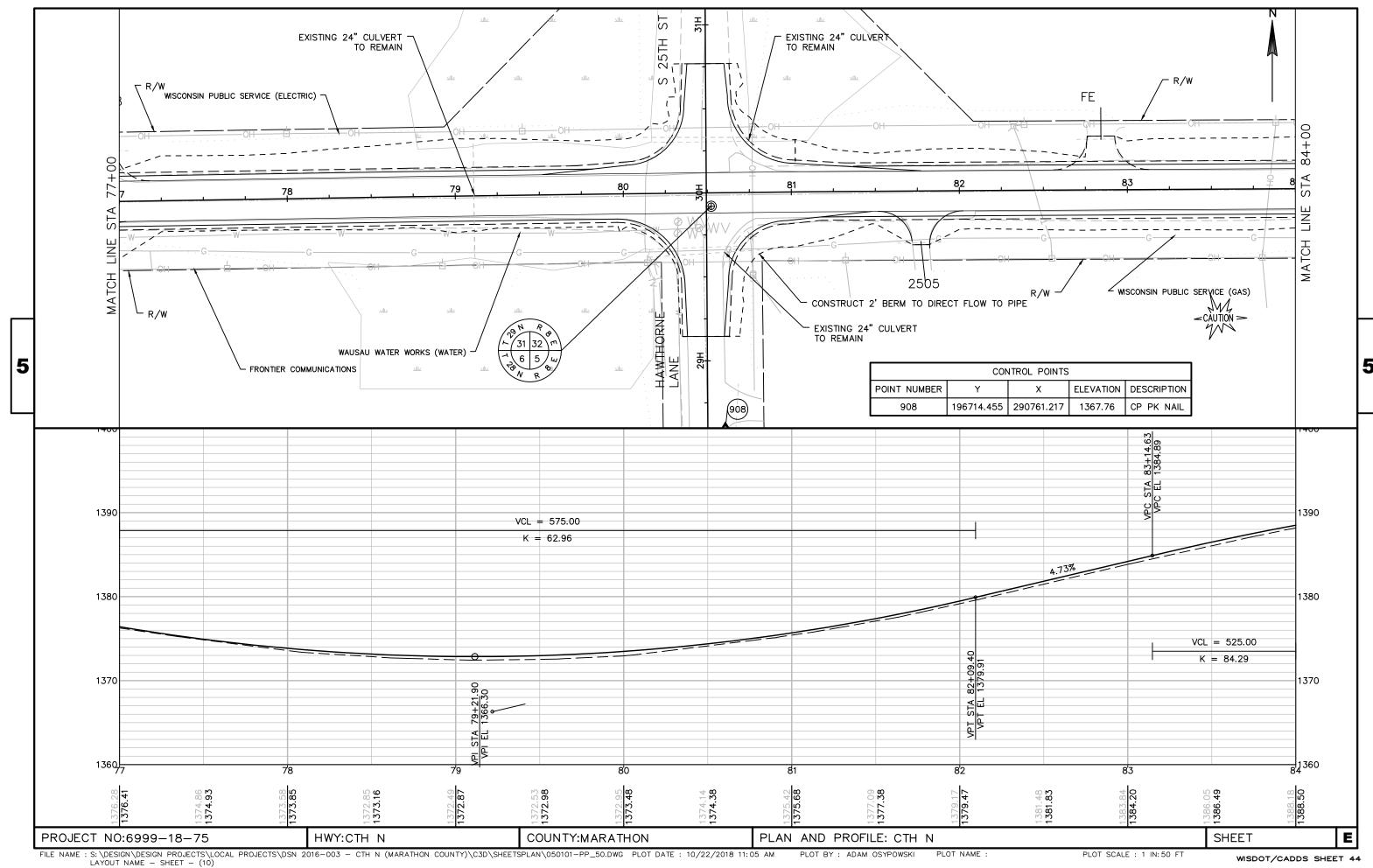
HWY: CTH N

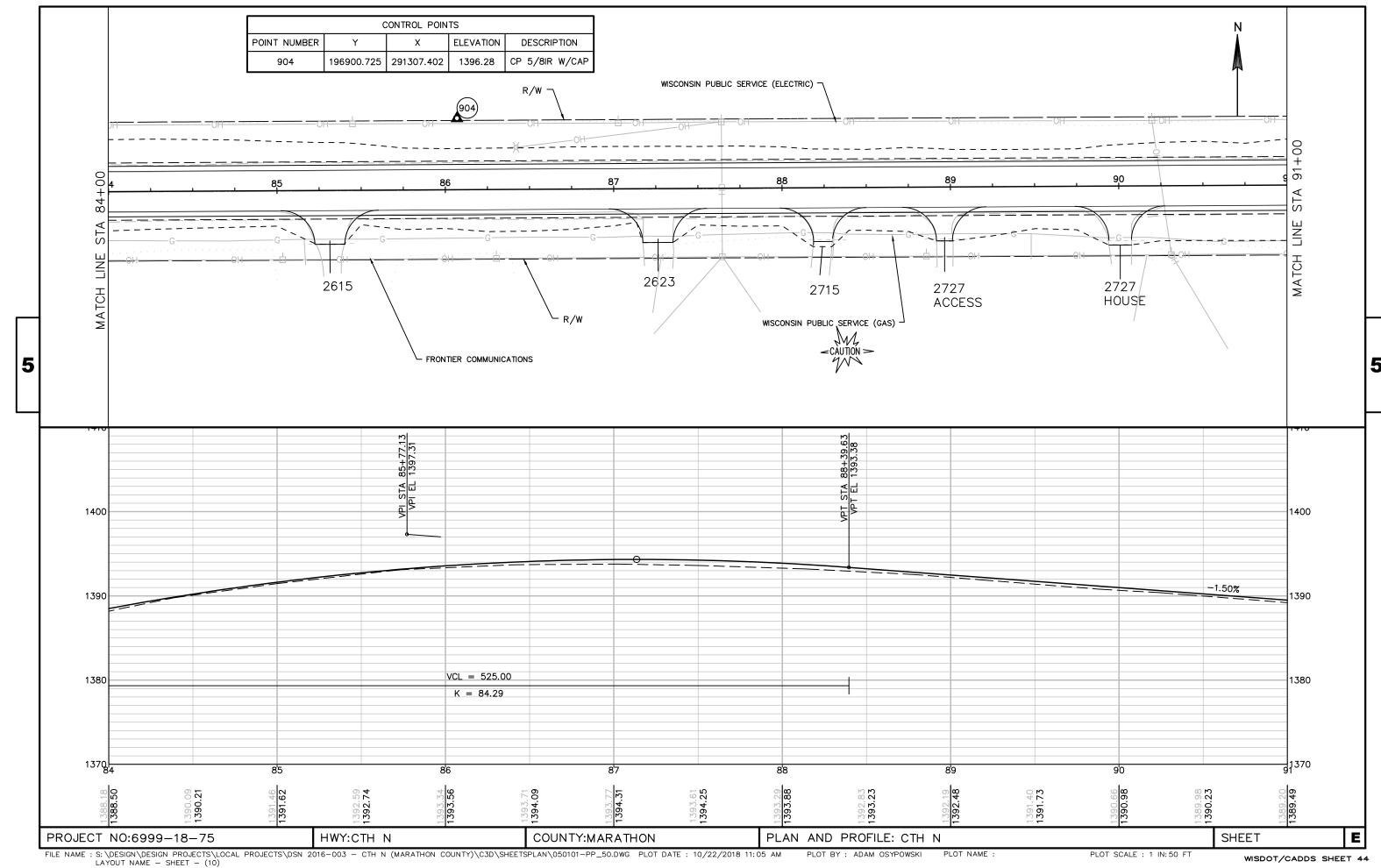


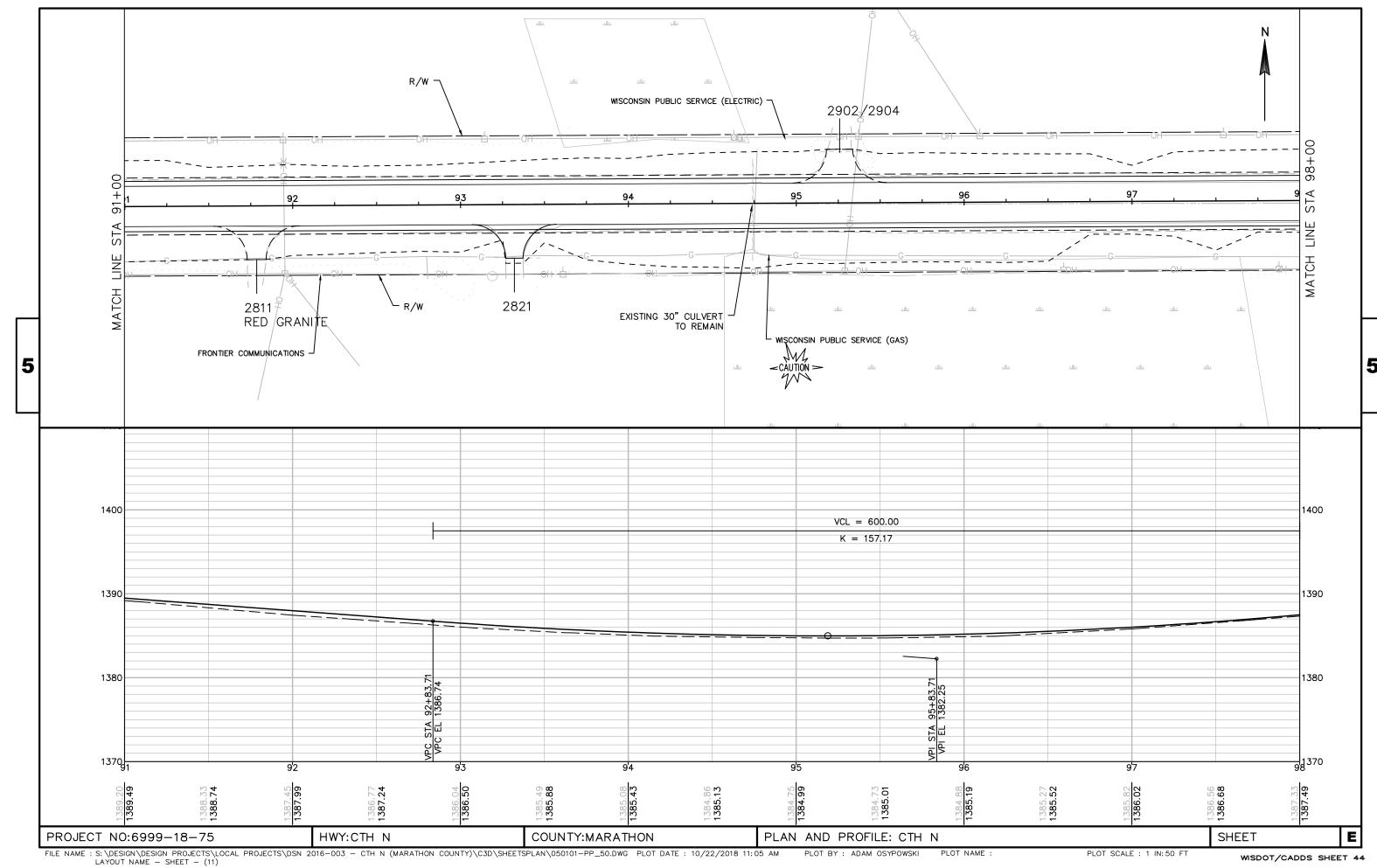


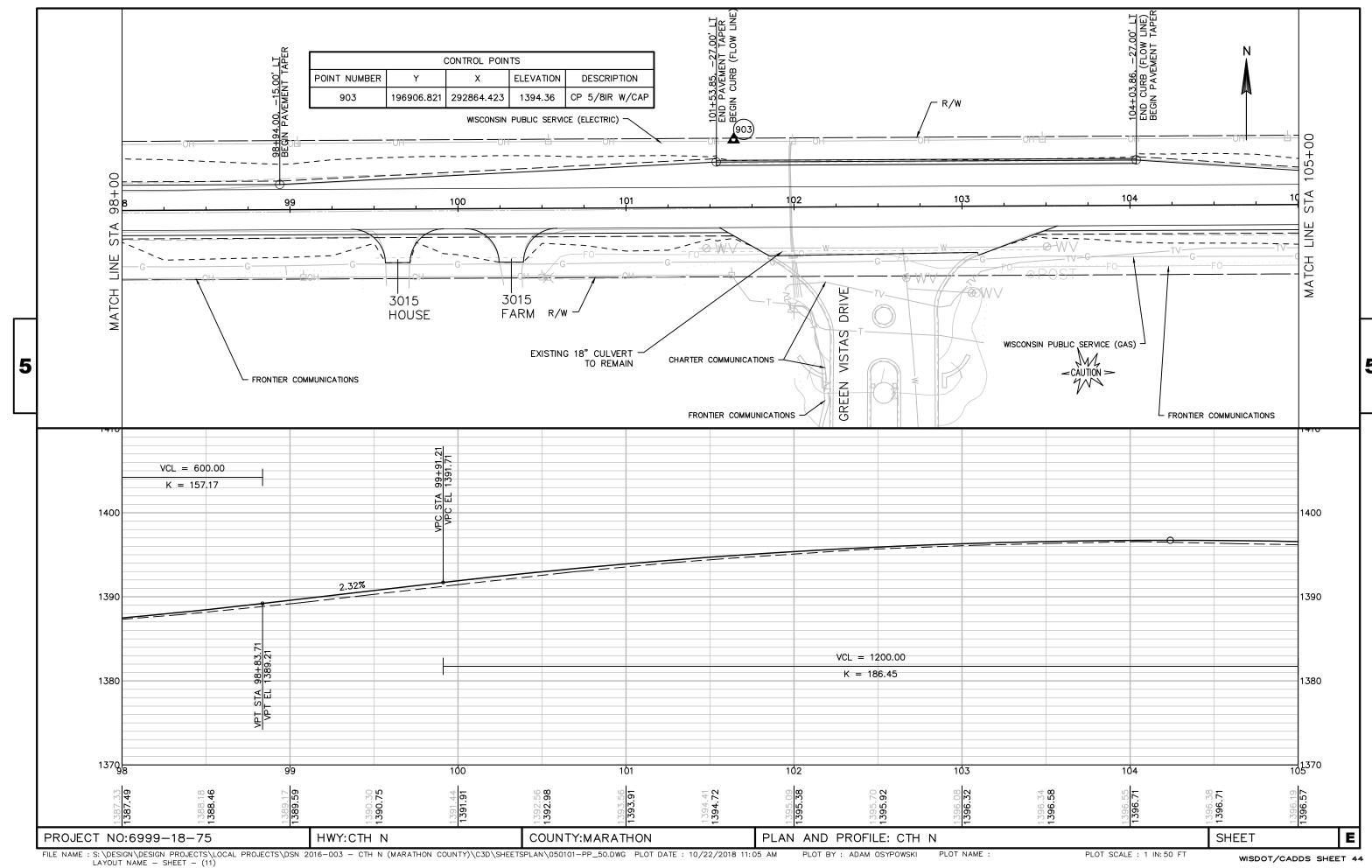


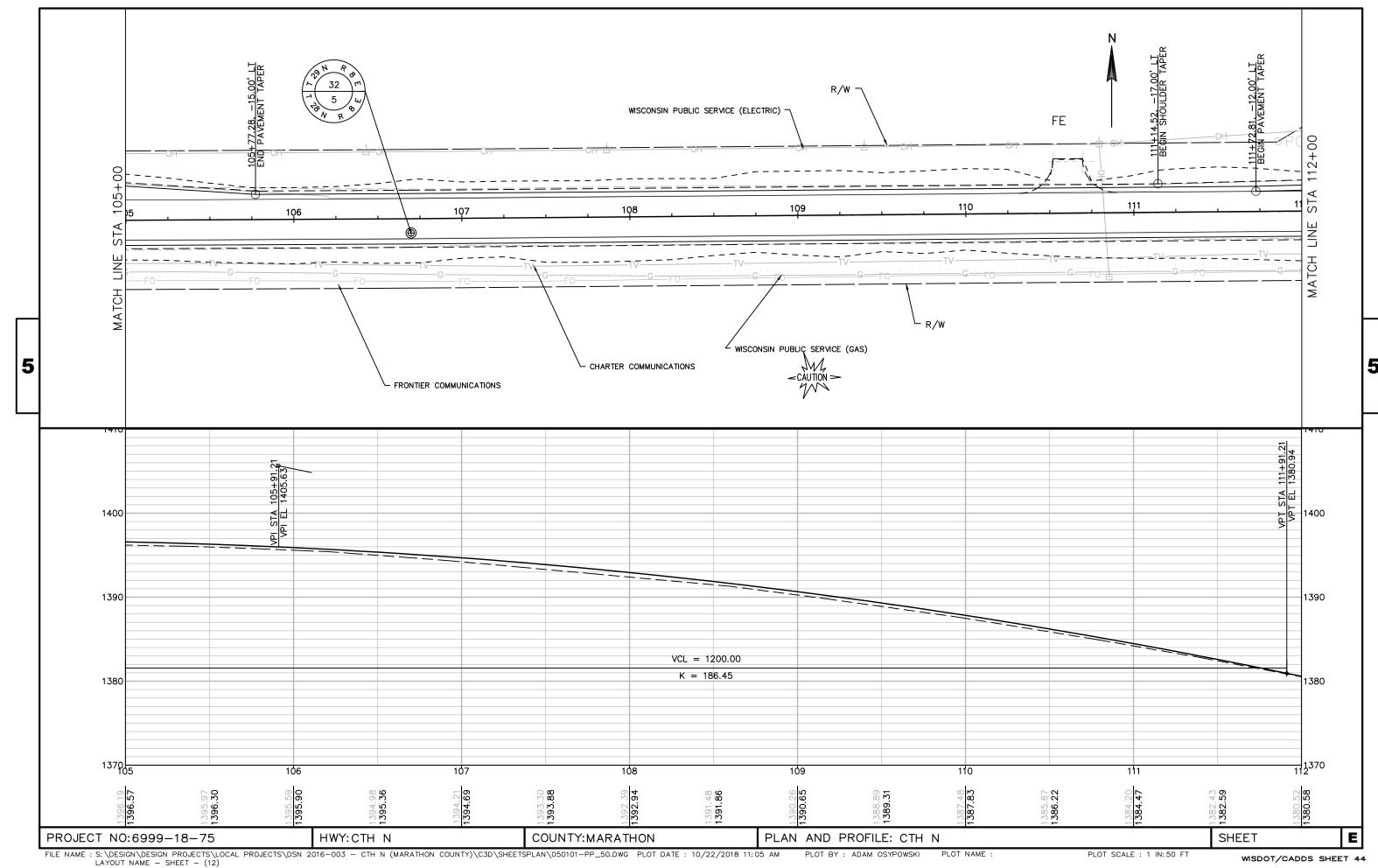


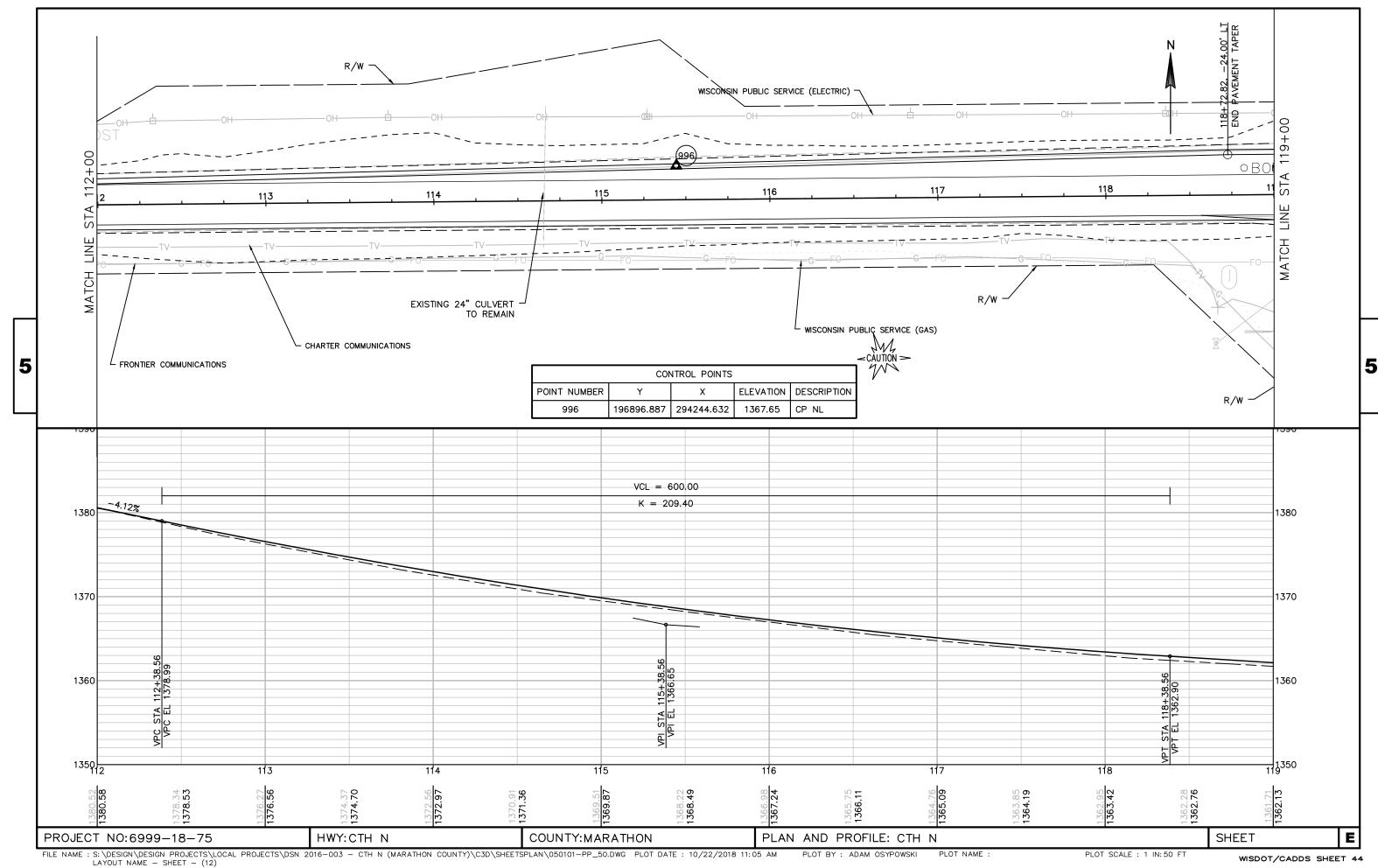


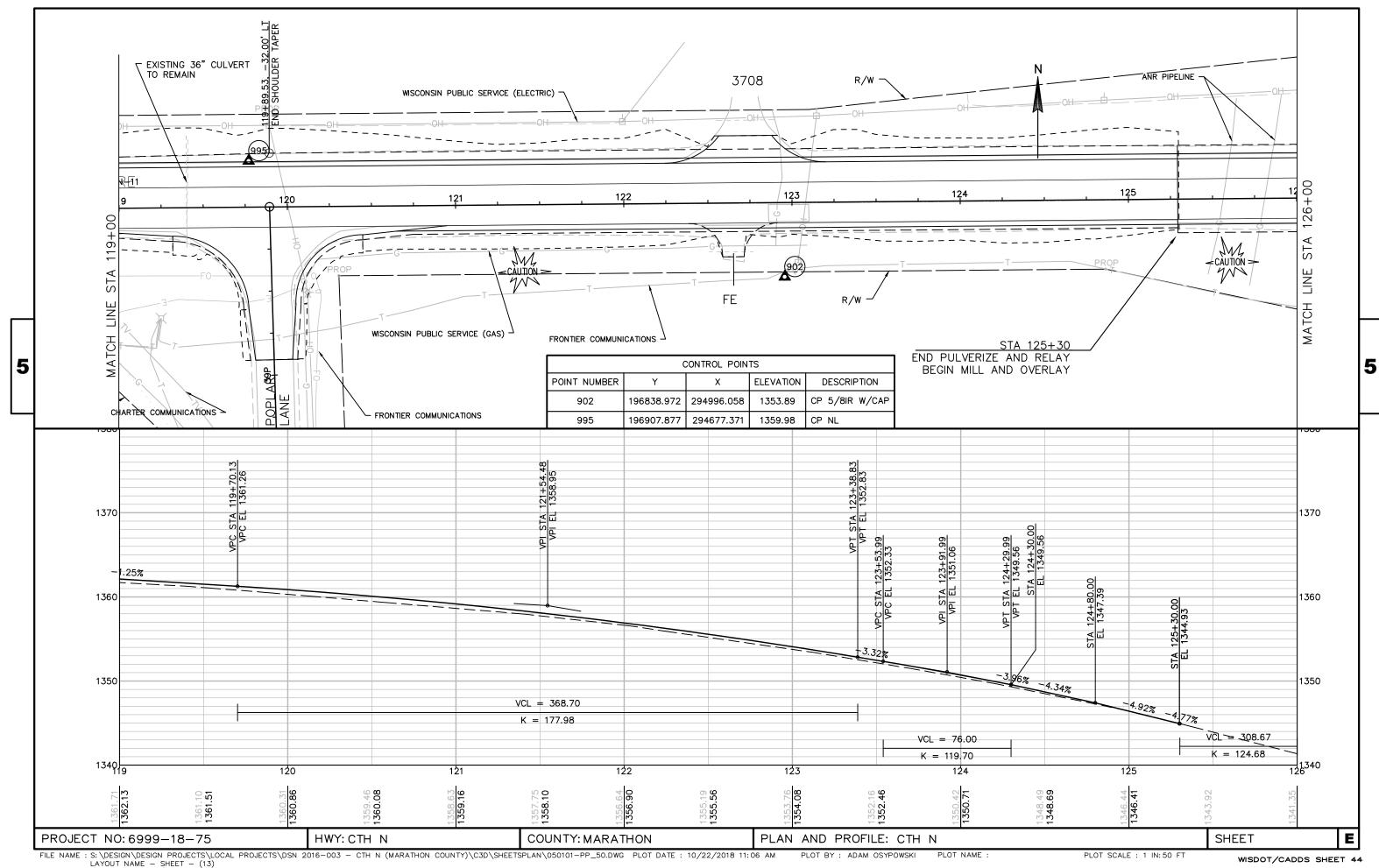


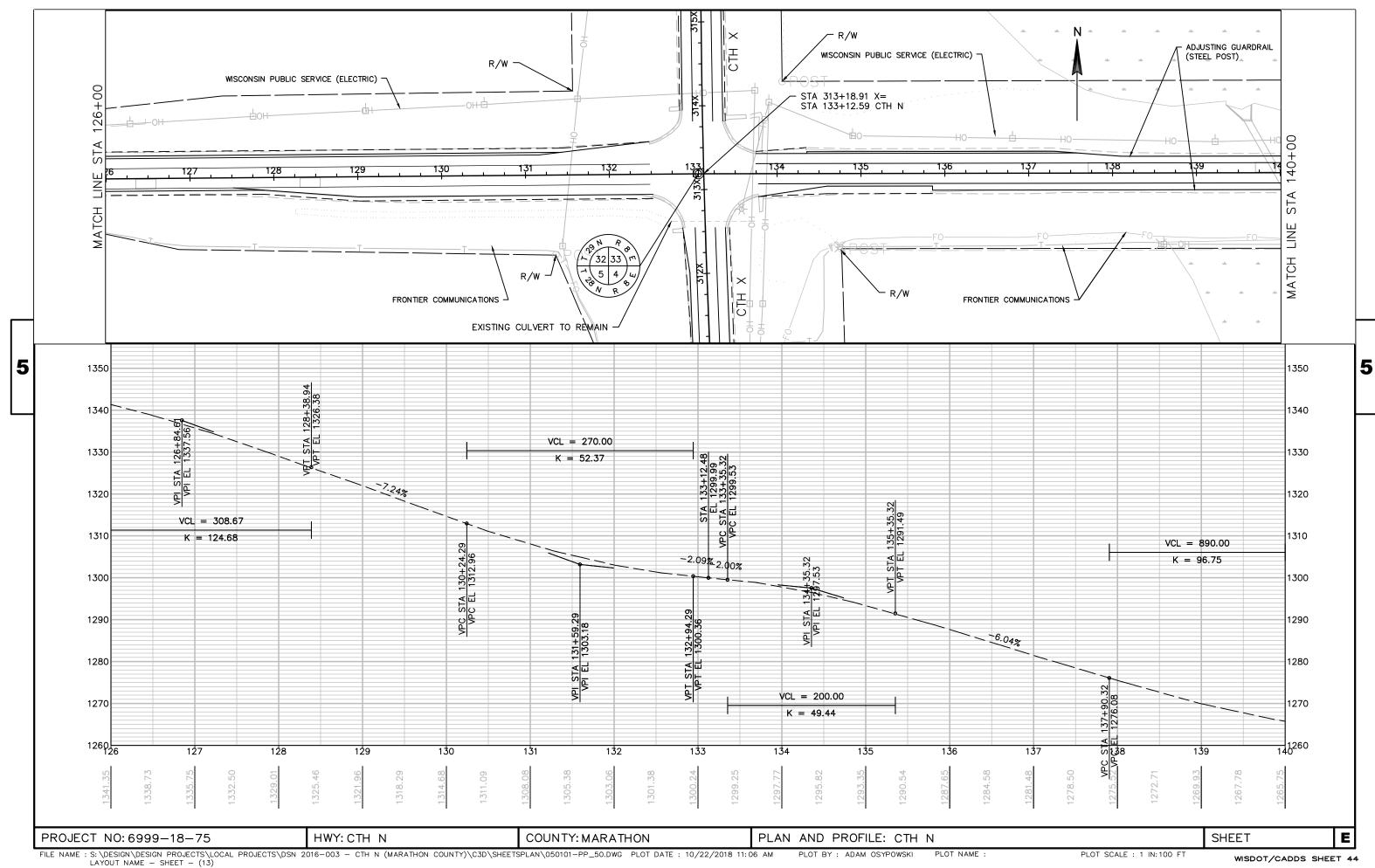


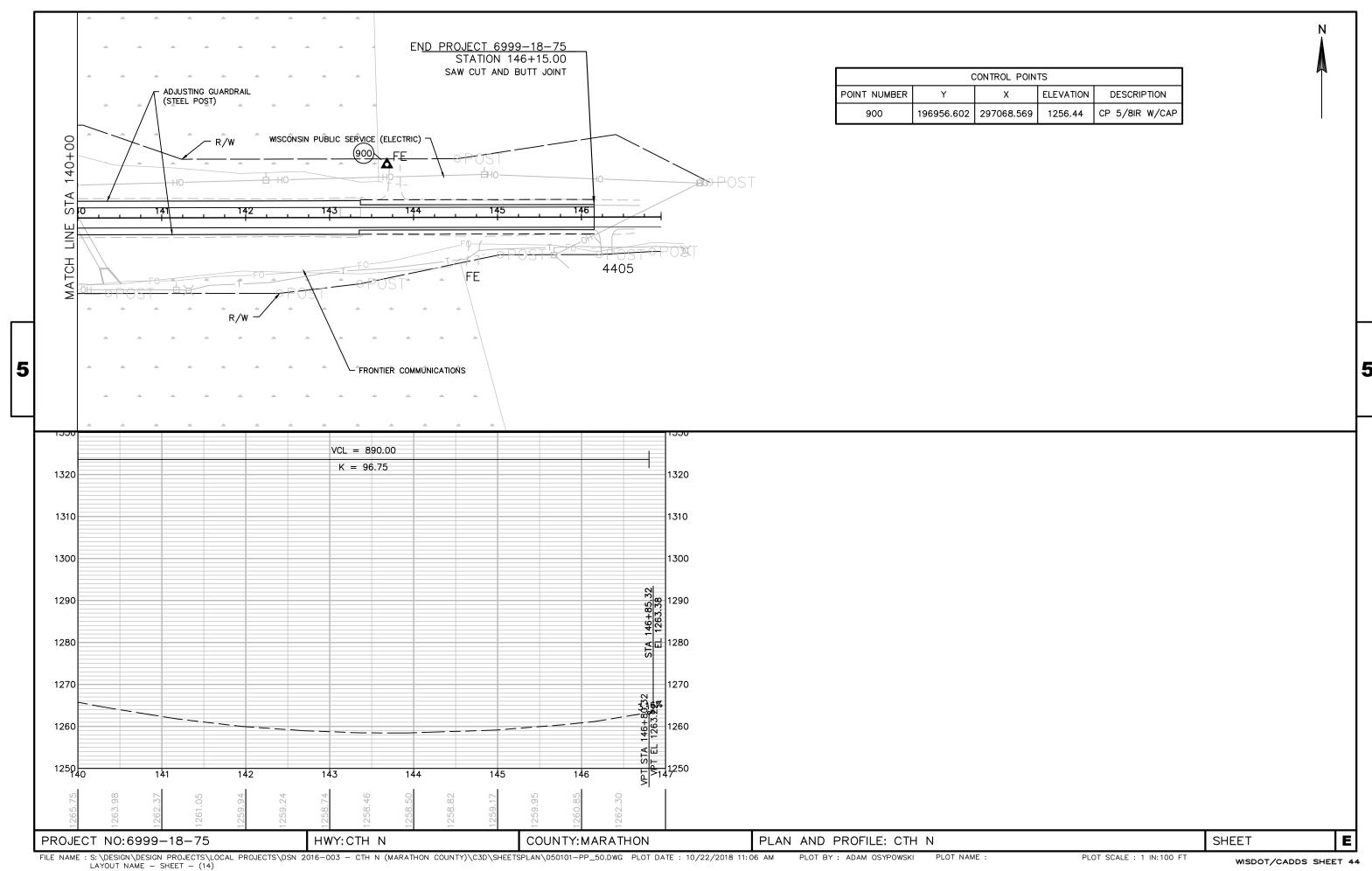


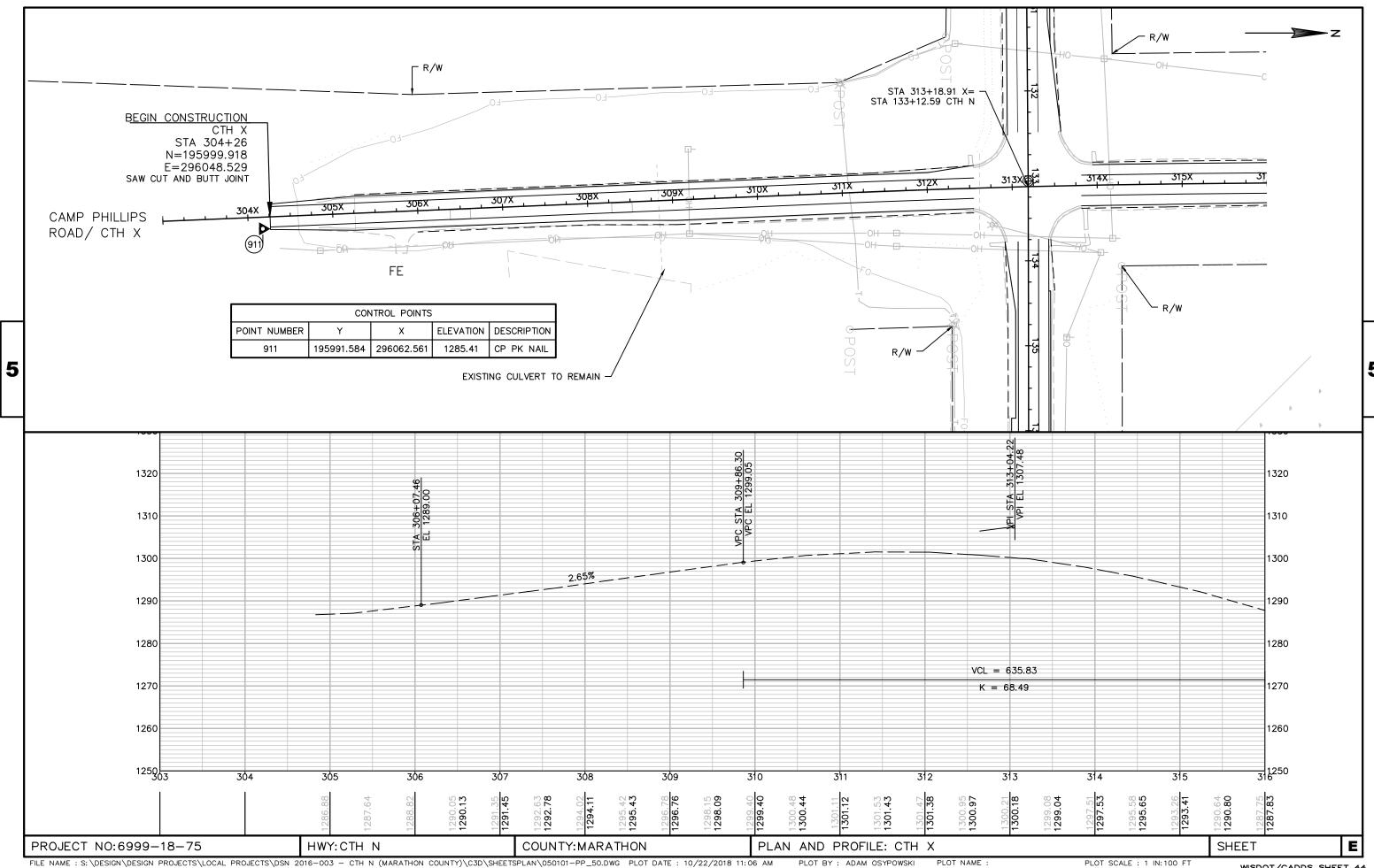


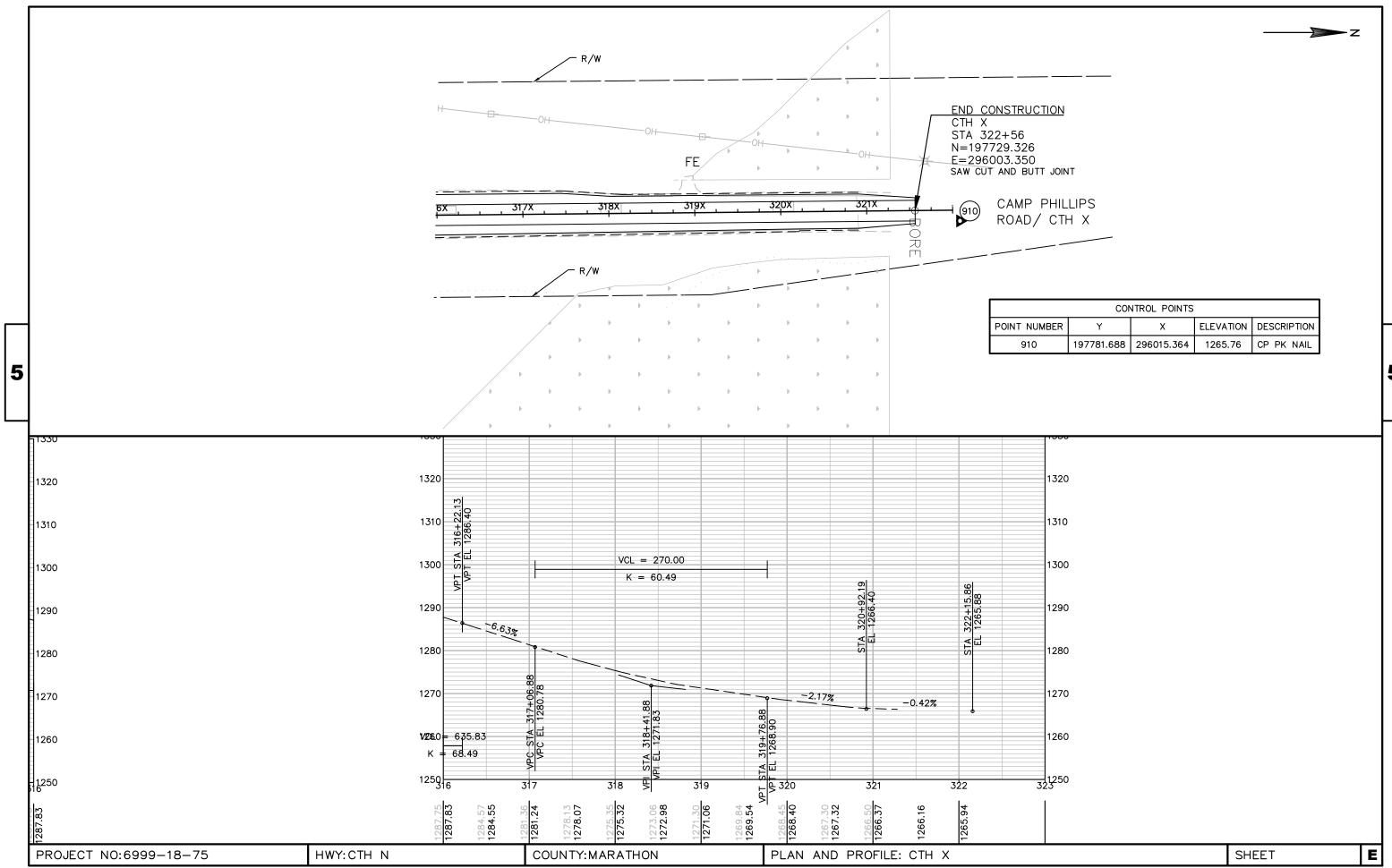






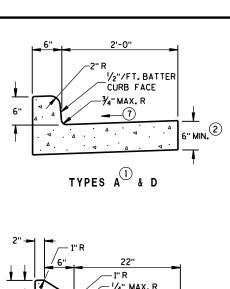


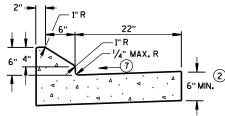




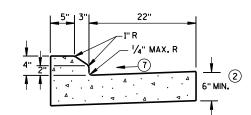
Standard Detail Drawing List

08D01-20A	CONCRETE CURB & GUTTER
08D01-20B	CONCRETE CURB, TIES AND CURB AND GUTTER APPLICATIONS
08D04-05	CONCRETE SURFACE DRAINS & ASPHALTIC FLUMES
08D21-01	DRIVEWAYS WITHOUT CURB & GUTTER
08D22-01	DRIVEWAYS WITHOUT CURB & GUTTER RESURFACING PROJECTS RURAL
08E08-03	TYPICAL INSTALLATIONS OF EROSION BALES / TEMPORARY DITCH CHECKS
08E09-06	SILT FENCE
08E14-01	TRACKING PAD
09A01-13A	AT-GRADE SIDE ROAD INTERSECTION, TYPES "B1", "B2", "C" AND D AND TEE INTERSECTION BYPASS LANE
14B15-11A	STEEL PLATE BEAM GUARD, CLASS "A" INSTALLATION & ELEMENTS
14B15-11B	STEEL PLATE BEAM GUARD, CLASS "A" INSTALLATION & ELEMENTS
14B15-11C	STEEL PLATE BEAM GUARD, CLASS "A", INSTALLATION & ELEMENTS
14B24-09A	STEEL PLATE BEAM GUARD ENERGY ABSORBING TERMINAL
14в24-09в	STEEL PLATE BEAM GUARD ENERGY ABSORBING TERMINAL
14B24-09C	STEEL PLATE BEAM GUARD ENERGY ABSORBING TERMINAL
14B29-01	SAFETY EDGE
15C02-06A	BARRICADES AND SIGNS FOR MAINLINE CLOSURES
15C02-06B	BARRICADES AND SIGNS FOR MAINLINE CLOSURES
15C02-06C	DETOUR SIGNING FOR MAINLINE CLOSURES
15C03-05	BARRICADES AND SIGNS FOR SIDEROAD CLOSURES
15C04-05	TRAFFIC CONTROL, ADVANCE WARNING SIGNS 45 M.P.H. OR GREATER TWO-WAY UNDIVIDED ROAD OPEN TO TRAFFIC
15C05-05	TRAFFIC CONTROL, ADVANCE WARNING SIGNS 40 M.P.H. OR LESS
15C07-14B	PAVEMENT MARKING WORDS
15C07-14C	PAVEMENT MARKING ARROWS
15C08-19A	LONGITUDINAL MARKING (MAINLINE)
15C08-19C	PAVEMENT MARKING (TURN LANES)
15C12-06	TRAFFIC CONTROL FOR LANE CLOSURE WITH FLAGGING OPERATION
15C19-05A	MOVING PAVEMENT MARKING OPERATION TWO-LANE TWO-WAY ROADWAY
15C33-03	STOP LINE AND CROSSWALK PAVEMENT MARKING
15C35-03A	PAVEMENT MARKING (INTERSECTIONS)
15D38-02A	TEMPORARY TRAFFIC CONTROL SIGN MOUNTING
15D38-02B	ATTACHMENT OF SIGNS TO POSTS

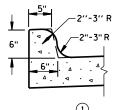




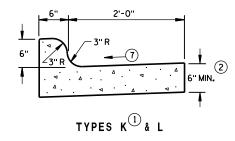
6" SLOPED CURB TYPES G 4 J



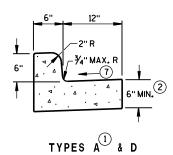
4" SLOPED CURB TYPES G 4 J



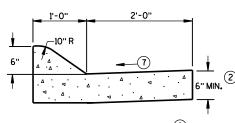
TYPES K (1) & L (OPTIONAL CURB SHAPE)



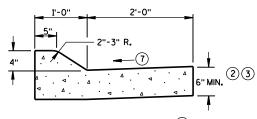
CONCRETE CURB & GUTTER 30"



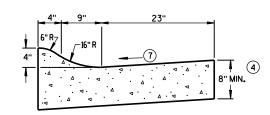
CONCRETE CURB & GUTTER 18"



6" SLOPED CURB TYPES A & D

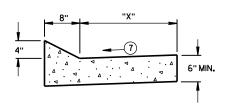


4" SLOPED CURB TYPES A D



4" SLOPED CURB TYPES R T & T

CONCRETE CURB & GUTTER 36"



TYPES TBT & TBTT

CONCRETE CURB & GUTTER

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

GENERAL NOTES

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

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

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

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

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

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

PAVEMENT THICKNESS AND MAXIMUM CONCRETE PANEL WIDTH TABLE

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

6

20a

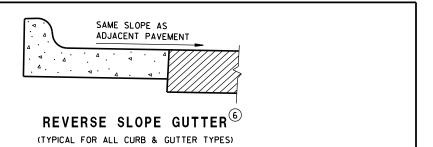
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CONCRETE PANEL WIDTH SAME PAY LIMITS TRAFFIC TRAFFIC LANE -AS CURB & GUTTER LANE PAVEMENT SLOPE PAVEMENT THICKNESS

PARTIAL SECTION OF PAVEMENT WITH INTEGRAL CURB & GUTTER



CONCRETE CURB & GUTTER

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

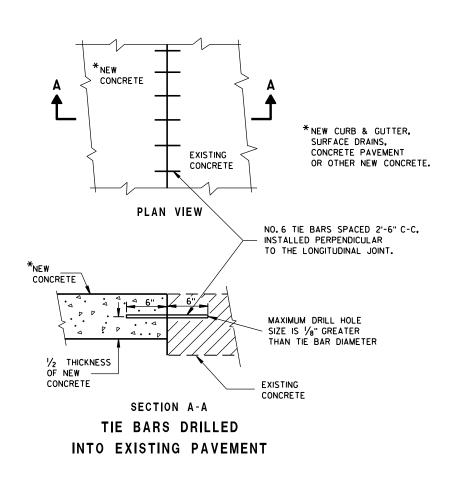
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^{*} BIKE LANE IS NOT SHOWN.

DETAIL OF CURB AND GUTTER AT INLETS (TYPE H INLET COVER SHOWN)

CONTRACTION PAVEMENT

END SECTION CURB & GUTTER



GENERAL NOTES

_ 1/2"/FT.BATTER,FACE OF CURB (ABOVE ADJACENT PAVEMENT)

ADJACENT

PAVEMENT

NO. 4 X 2'-0" DEF. TIE

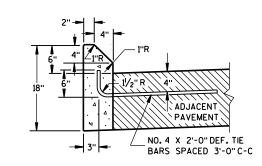
BARS SPACED 3'-0" C-C

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

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

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

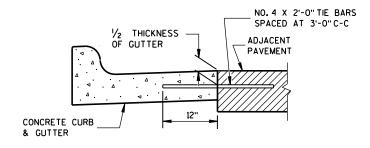
- 1) TIE BARS ARE REQUIRED FOR CURB AND GUTTER TYPES A.G.K.R AND TBTT.
- 2 THE BOTTOM OF CURB AND GUTTER MAY BE CONSTRUCTED EITHER LEVEL OR PARALLEL TO THE SLOPE OF THE SUBGRADE OR BASE AGGREGATE PROVIDED A 6" MINIMUM GUTTER THICKNESS IS MAINTAINED.
- (9) REFER TO SDD 8D18 AND SDD 8D19 FOR ADDITIONAL DRIVEWAY ENTRANCE CURB DETAILS.



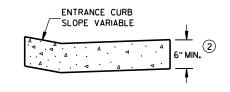
TYPES A D

TYPES G 4 J

CONCRETE CURB



TYPICAL TIE BAR LOCATION 1



DRIVEWAY ENTRANCE CURB (9)

(WHEN DIRECTED BY THE ENGINEER)

CONCRETE CURB, TIES AND CURB AND GUTTER APPLICATIONS

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

/S/ Rodney Taylor June, 2017 DATE

ROADWAY STANDARDS DEVELOPMENT UNIT SUPERVISOR

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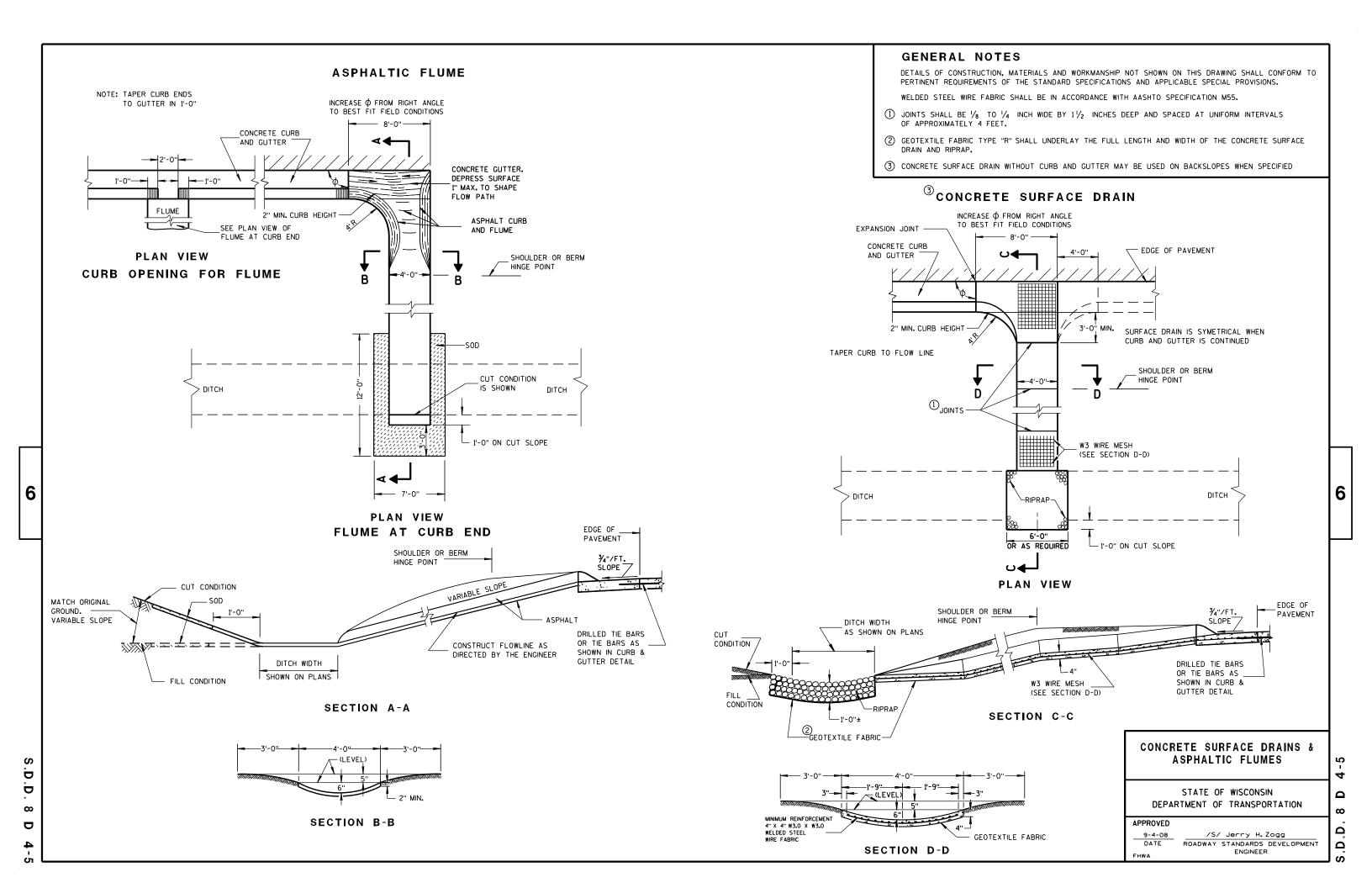
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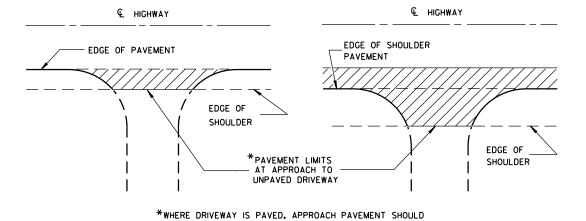
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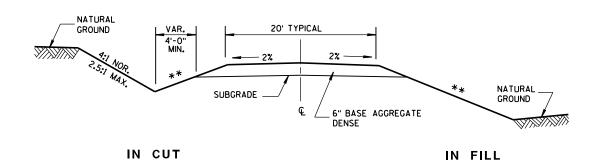
BE EXTENDED TO MATCH DRIVEWAY PAVEMENT.

PLAN VIEW
(UNPAVED SHOULDER ON HIGHWAY)

PLAN VIEW
(PAVED SHOULDER ON HIGHWAY)

RURAL DRIVEWAY INTERSECTION DETAIL

(NO CURB & GUTTER OR SIDEWALK)

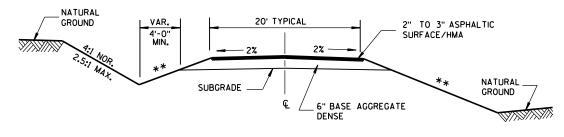


** SLOPE CAN VARY WITH SPEED. SEE 11-45-2.6.2.

POSTED MAX. SLOPE MPH 4:1

235 TO <60 6:1

260 10:1

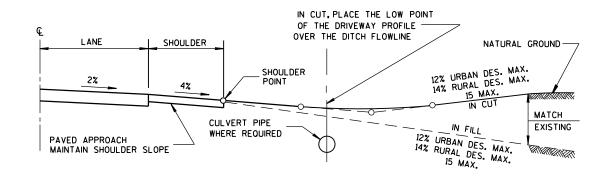


IN CUT

IN FILL

TYPICAL CROSS SECTION FOR PRIVATE DRIVE OR FIELD ENTRANCE ASPHALTIC SURFACE

TYPICAL CROSS SECTION FOR PRIVATE DRIVE OR FIELD ENTRANCE AGGREGATE SURFACE



TYPICAL DRIVEWAY PROFILES

DRIVEWAYS WITHOUT CURB & GUTTER

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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APPROVED

December, 2016 /S/ Rodney Taylor

DATE ROADWAY STANDARDS DEVELOPMENT
UNIT SUPERVISOR

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GENERAL NOTES

1 DESIGN WILL DETERMINE FINAL DRIVEWAY ASPHALTIC THICKNESS BASED ON TYPE OF USAGE AND LOADINGS.

EXISTING ASPHALTIC SURFACE DRIVEWAY — 8' TO 10' SHOULDER —= HMA PAVEMENT - 5' TO 20' -5' TO 7'-OVERLAY 2.00% 4.00% VARIES - EXISTING HMA PAVEMENT REMOVE EXISTING ASPH. PAV'T EXISTING BASE & BASE COURSE TO A DEPTH AGGREGATE DENSE SUFFICIENT TO PLACE 2" TO 3" ASPHALTIC SURFACE & 6" 2" TO 3" ASPHALTIC SURFACE (1) BASE AGGREGATE DENSE 6" BASE AGGREGATE MATCH EXISTING DRIVEWAY DENSE (MAY BE INCREASED FOR CLAY SUBGRADES)

PLAN VIEW

HALF SECTION

MATCH EXISTING DRIVEWAY — 8' TO 10' SHOULDER— 1 3' TO 5' 5' TO 20' - 5' TO 7'— HMA PAVEMENT OVERLAY 2.00% 4.00% VARIES 6" BASE AGGREGATE - DENSE (MAY BE INCREASED FOR CLAY SUBGRADES) _ EXISTING HMA PAVEMENT REMOVE EXISTING BASE COURSE EXISTING BASE AGGREGATE TO A DEPTH SUFFICIENT TO -PLACE 6" BASE AGGREGATE DENSE EXISTING CRUSHED - BASE AGGREGATE DENSE

PROFILE VIEW

RURAL ENTRANCE WITH ASPHALTIC SURFACE

RESURFACING PROJECTS

PROFILE VIEW

PLAN VIEW HALF SECTION

RURAL ENTRANCE WITH AGGREGATE SURFACE

6" BASE AGGREGATE DENSE RESURFACING PROJECTS

DRIVEWAYS WITHOUT
CURB & GUTTER
RESURFACING PROJECTS RURAL

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

FHWA

December. 2016 /S/ Rodney Taylor

DATE ROADWAY STANDARDS DEVELOPMENT

UNIT SUPERVISOR

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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.

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

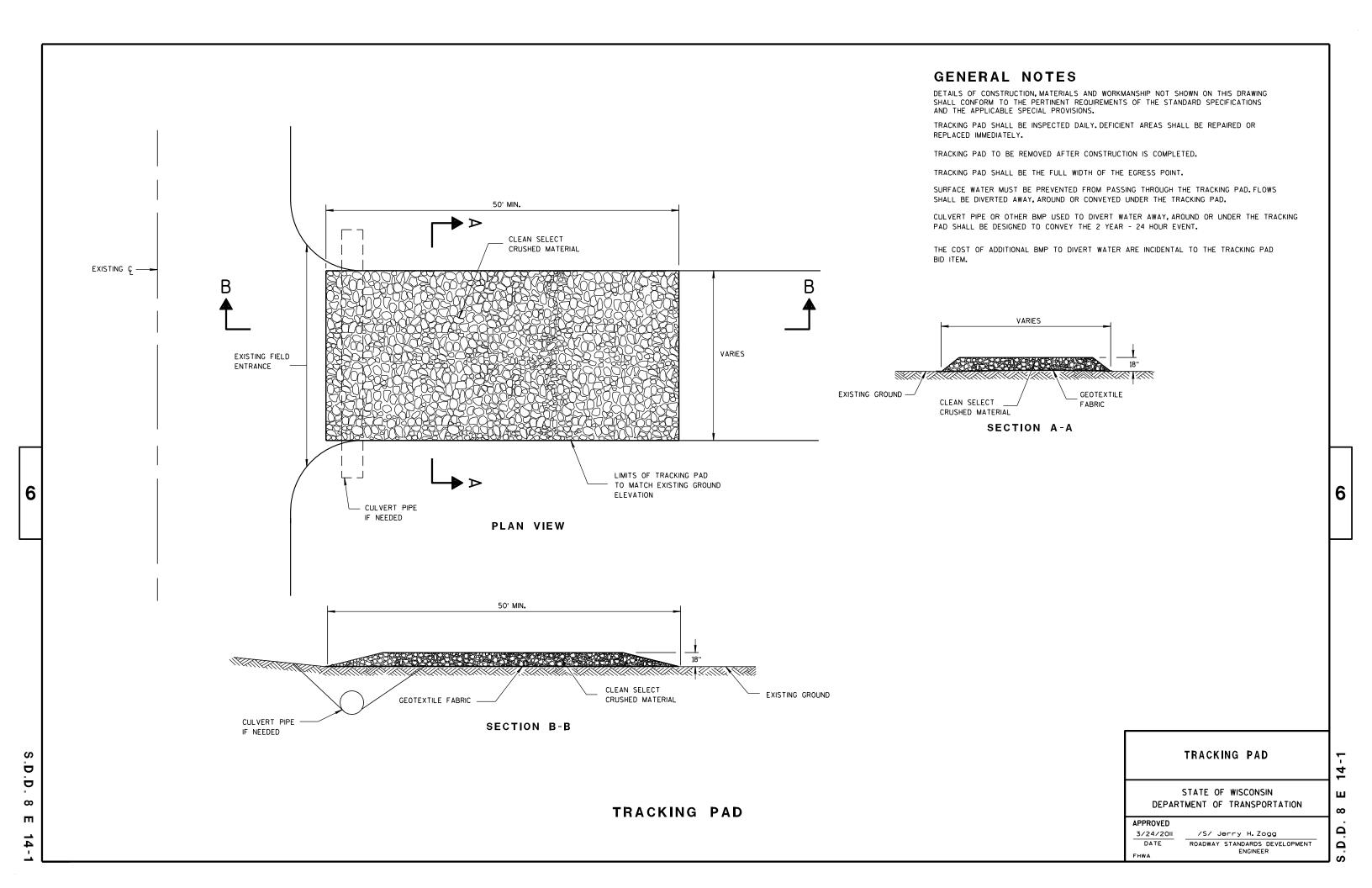
APPROVED
4-29-05 /S/ Beth Cannestra

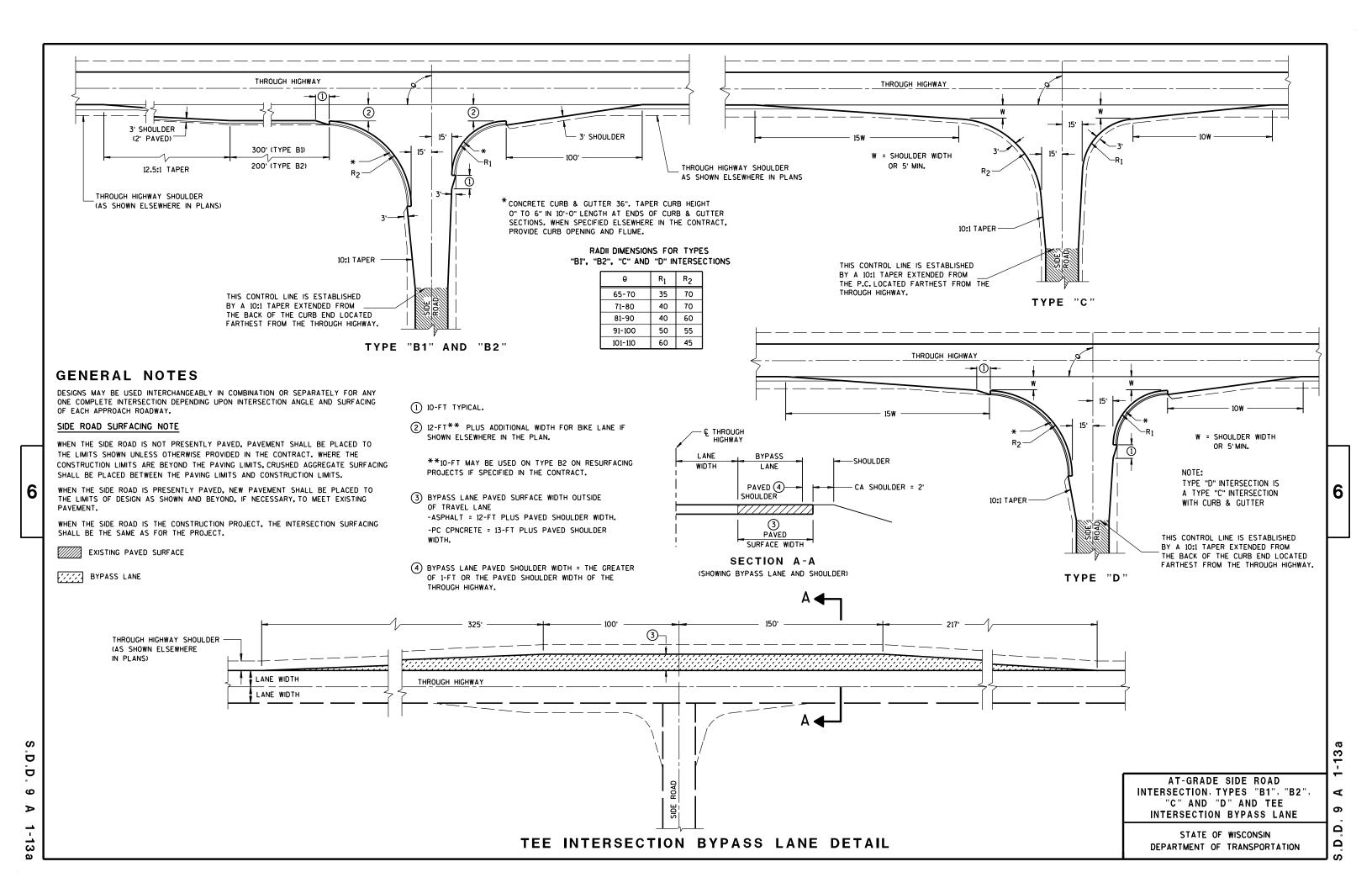
29-05 /S/ Beth Cannestra
DATE CHIEF ROADWAY DEVELOPMENT ENGINEER

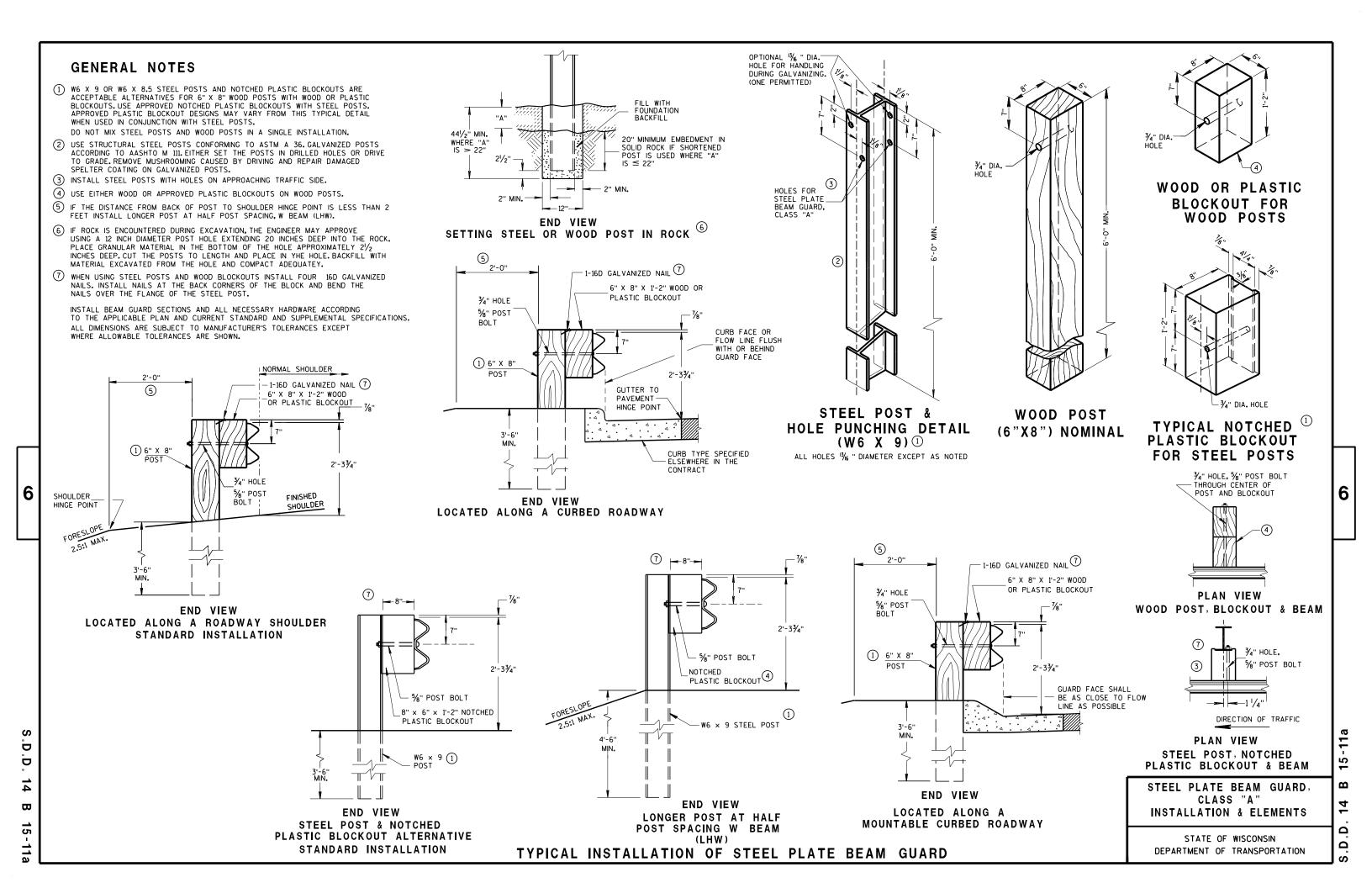
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FRONT VIEW

POST SPACING STANDARD INSTALLATION

12'-6" OR 25'-0"

SECTION THRU W BEAM

SYMMETRICAL

ABOUT & -12 GAGE

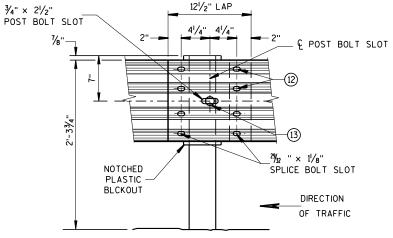
121/2" LAP WOOD OR PLASTIC BLOCKOUT FINISHED SHOULDER DIRECTION OF TRAFFIC FRONT VIEW

BEAM SPLICE AT WOOD POST AND POST MOUNTING DETAIL

GENERAL NOTES

FURNISH GUARDRAIL DEFLECTORS FROM APPROVED PRODUCTS LIST.

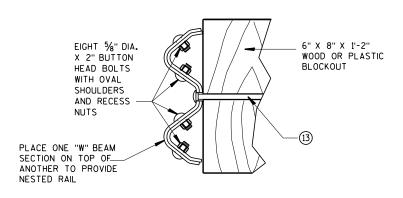
- (9) DO NOT INSTALL REFLECTORS ON THE FIRST 50 FEET OF THE APPROACH END OF THE ENERGY ABSORBING TERMINA, START REFLECTORS AT POST *9 AND SPACE EVENLY EVERY 100 FEET (MAX.) TO THE END OF GUARDRAIL RUN, USING A MINIMUM OF 3 REFLECTORS.
- (12) 8 1/8" \$ X 2" BUTTON HEAD BOLTS WITH OVAL SHOULDERS & RECESS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



FRONT VIEW BEAM SPLICE AT STEEL POST

OF STEEL PLATE BEAM GUARD

TYPICAL SPLICING DETAILS



NESTED W BEAM (NW)

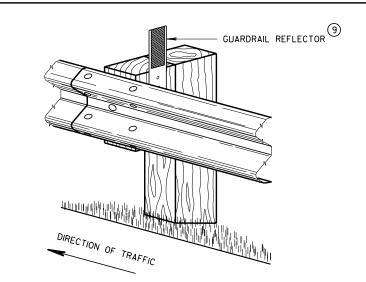
USE ALL OTHER STANDARD BEAM GUARD DETAILS FOR CONSTRUCTING NESTED W BEAM (NW)

EFFECTIVE LENGTH OF BEAM 3'-11/2" C-C 3'-11/2" C-C 3'-1¹/₂" C-C 3'-1¹/₂" C-C POST SPACING SPACING **SPACING** SPACING FINISHED DIRECTION OF SHOULDER TRAFFIC

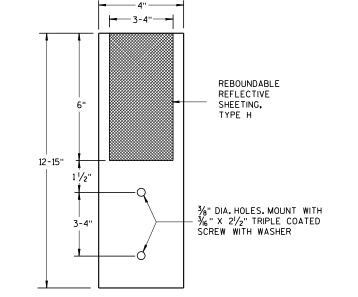
FRONT VIEW

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

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



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



4"x 12" GUARDRAIL REFLECTOR

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

DEPARTMENT OF TRANSPORTATION

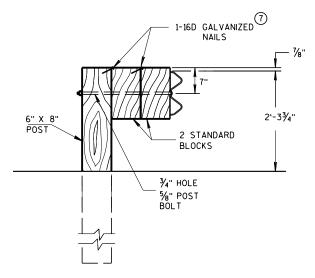
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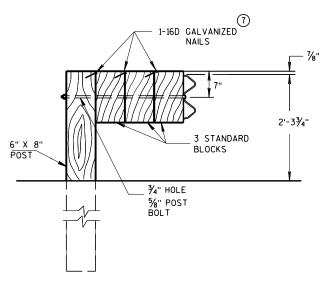
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DETAIL FOR DOUBLE BLOCKS

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

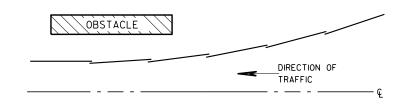


DETAIL FOR TRIPLE BLOCKS

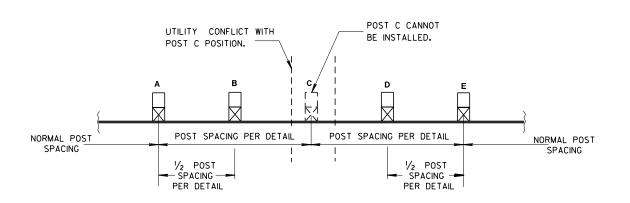
TRIPLE BLOCK DETAIL IS LIMITED TO ONE LOCATION WITHIN A BEAM GUARD RUN.

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

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



PLAN VIEW BEAM LAPPING DETAIL



POST DRIVING FOR CONTINUOUS UNDERGROUND OBSTRUCTION

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

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
June 2017

DATE

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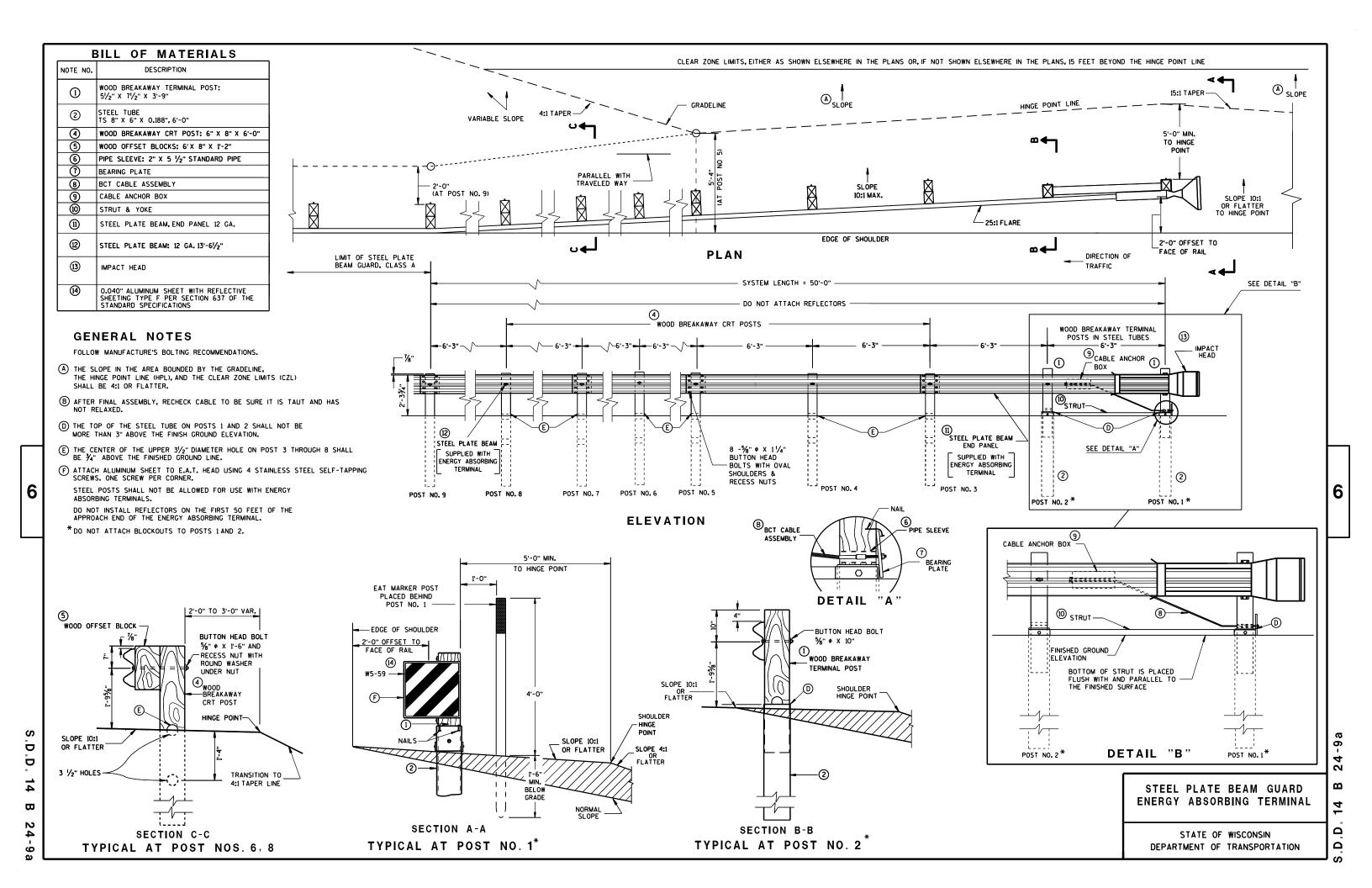
/S/ Rodney Taylor

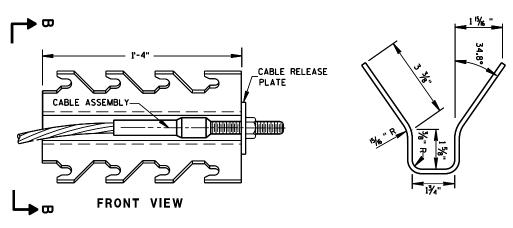
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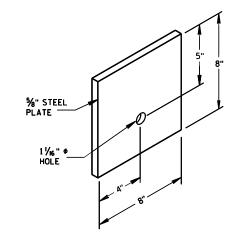
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SECTION B-B

(9) CABLE ANCHOR BOX



[⊙]STEEL BEARING PLATE

STEEL PLATE BEAM GUARD ENERGY ABSORBING TERMINAL

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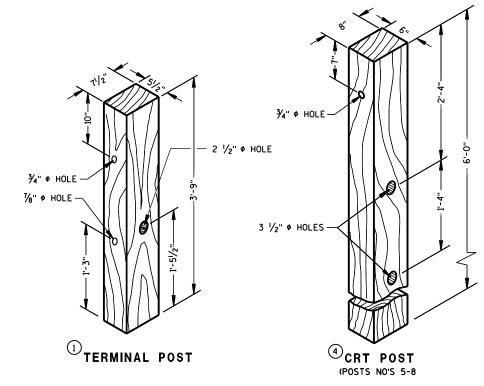
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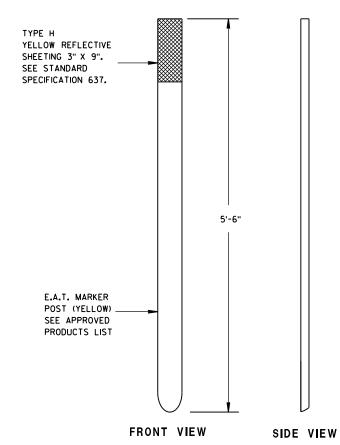
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(4) REFLECTIVE SHEETING DETAILS



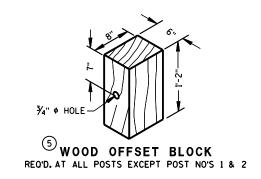
WOOD BREAKAWAY POSTS



E.A.T. MARKER POST

GENERAL NOTES

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



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STEEL PLATE BEAM GUARD ENERGY ABSORBING TERMINAL

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

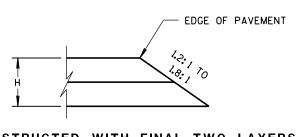
APPROVED June 2017

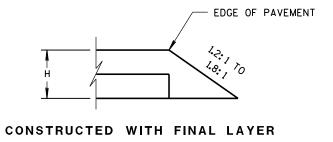
/S/ Rodney Taylor ROADWAY STANDARDS DEVELOPMENT UNIT SUPERVISOR

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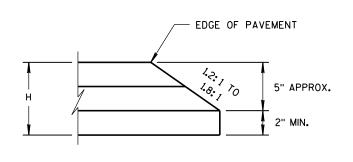


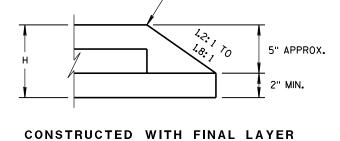


FOR H 5" OR LESS

CONSTRUCTED WITH FINAL TWO LAYERS

FOR H 5" OR LESS





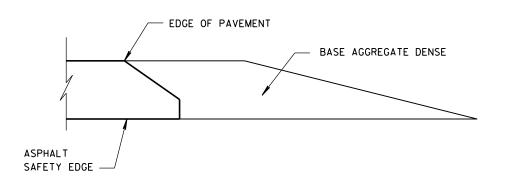
FOR H GREATER THAN 5"

EDGE OF PAVEMENT

CONSTRUCTED WITH FINAL TWO LAYERS

FOR H GREATER THAN 5"

HMA PAVEMENT AND HMA OVERLAYS



FINISHED SHOULDER AGGREGATE PLACEMENT

SAFETY EDGE SM

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DATE ROADWAY STANDARDS DEVELOPMENT ENGINEER

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ROAD CLOSURE BARRICADE DETAIL

APPROACH VIEW



DETAIL E LANE CLOSURE BARRICADE DETAIL APPROACH VIEW

SEE SDD 15C2-SHEET "a" FOR LEGEND

GENERAL NOTES

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

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

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

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

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

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

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

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

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

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

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

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

BARRICADES AND SIGNS FOR MAINLINE CLOSURES

2

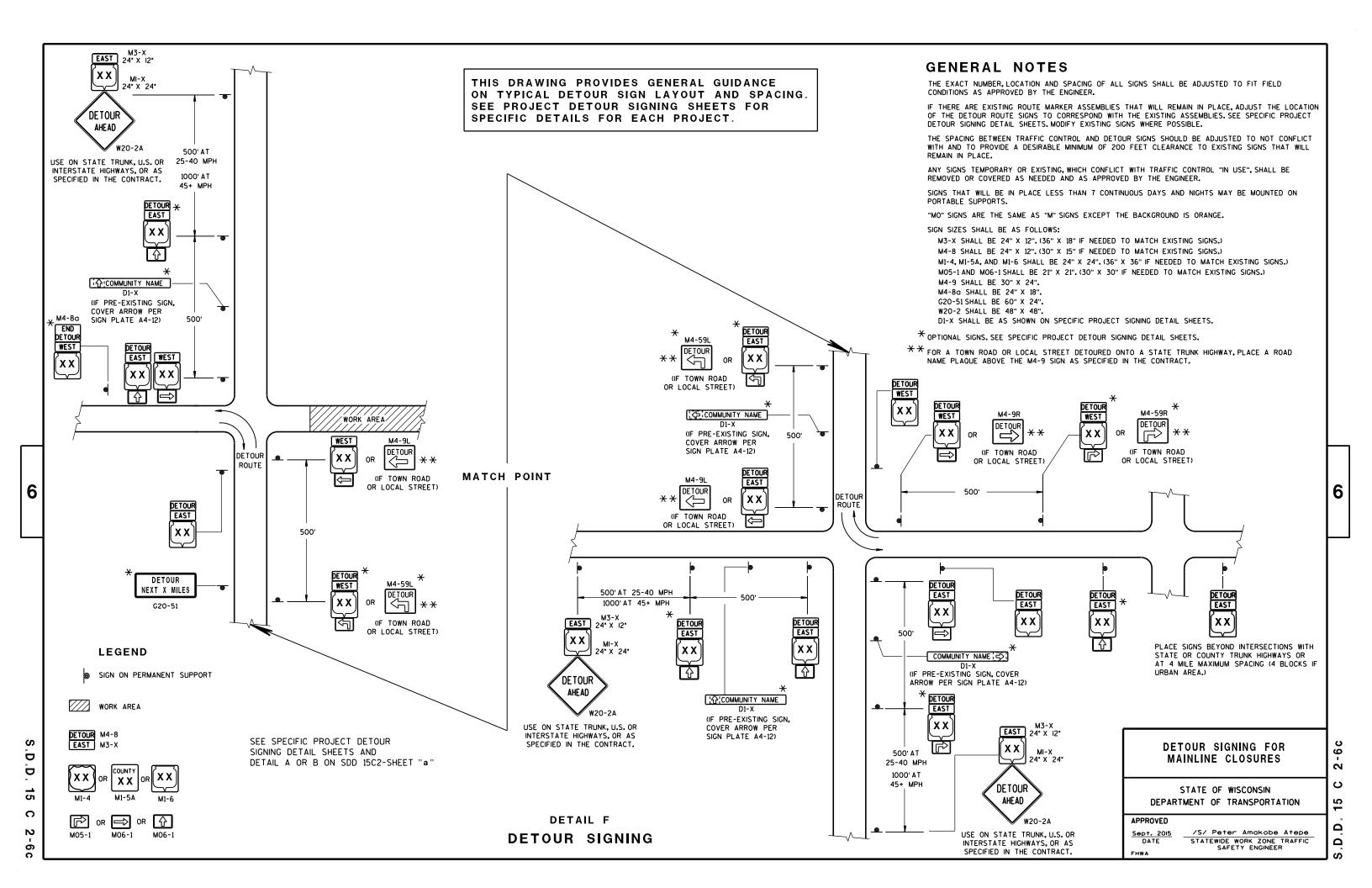
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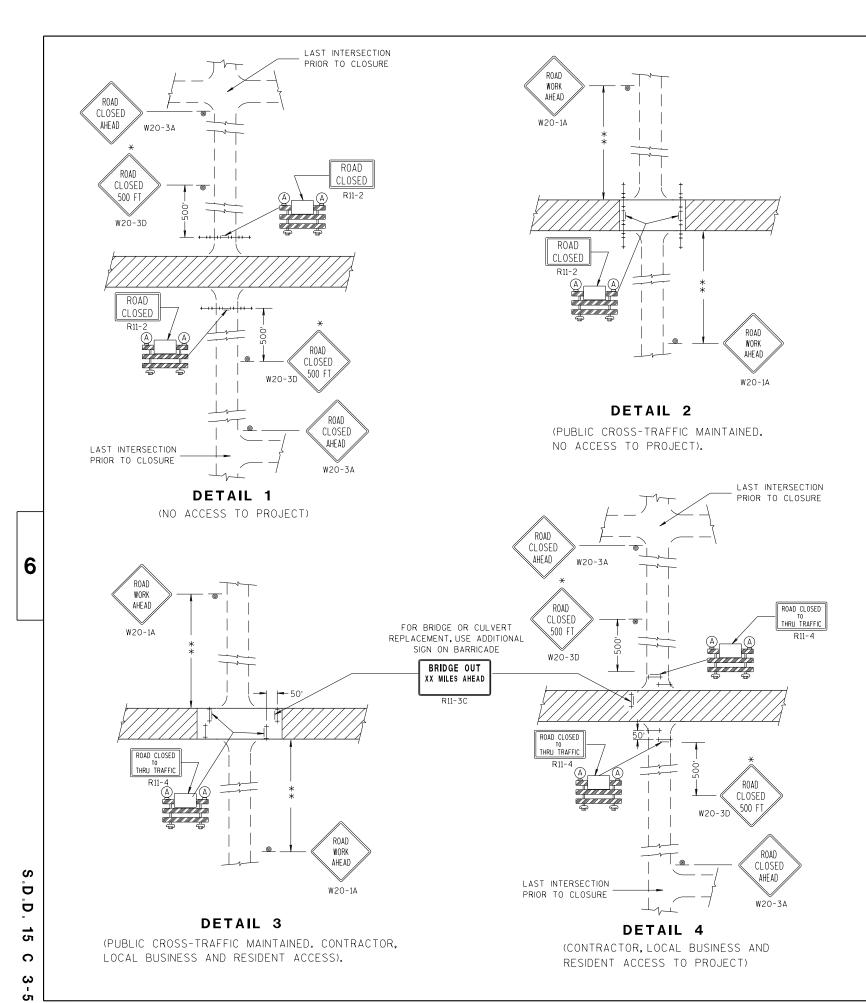
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STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

/S/ Peter Amakobe Atepe

STATEWIDE WORK ZONE TRAFFIC SAFETY ENGINEER





GENERAL NOTES

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

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

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

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.

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

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

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

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

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

ALL SIGNS SHALL BE 48" X 48" UNLESS OTHERWISE NOTED BELOW:
R11-2 SHALL BE 48" X 30".
R11-4 AND R11-3 SHALL BE 60" X 30".

- *OMIT THE "ROAD CLOSED 500 FT." SIGN IF THE LAST INTERSECTION IS 500 FT. OR LESS FROM THE WORK ZONE.
- **500'MAX.OR AT LAST INTERSECTION WHICHEVER IS CLOSER.

LEGEND

- SIGN ON PERMANENT SUPPORT
- . TYPE III BARRICADE
- TYPE III BARRICADE WITH ATTACHED SIGN
- (A) TYPE "A" WARNING LIGHT (FLASHING)



BARRICADES AND SIGNS FOR SIDEROAD CLOSURES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

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

D.D. 15 C 3-8

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GENERAL NOTES

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

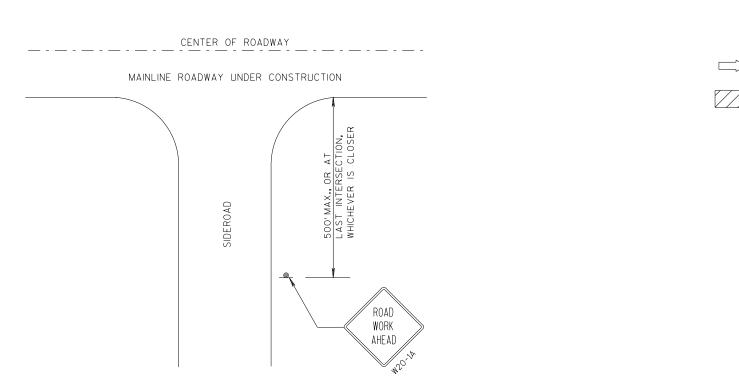
THE SPACING BETWEEN TRAFFIC CONTROL SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND SHOULD PROVIDE A MINIMUM OF 200 FEET (500 FEET DESIRABLE) CLEARANCE TO EXISTING SIGNS THAT WILL REMAIN IN PLACE.

ALL SIGNS ARE 48"x48" UNLESS OTHERWISE NOTED.

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

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

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



LEGEND

SIGN ON PERMANENT SUPPORT

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DIRECTION OF TRAFFIC

WORK AREA

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

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

7/2018 /S/ Andrew Heidtke

DATE WORK ZONE ENGINEER

D.D. 15 C 4

S

MAINLINE ROADWAY UNDER CONSTRUCTION

ROAD

WORK

AHEAD

CENTER OF ROADWAY

GENERAL NOTES

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

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

ALL SIGNS ARE 48"×48" UNLESS OTHERWISE NOTED. IF NECESSARY DUE TO SPACE CONSTRAINTS, 36"x36" SIGNS MAY BE USED INSTEAD OF 48"x48"

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

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

imes The Third W20-1Sign is required only if there is an intersection BETWEEN THE "ROAD WORK 500 FT" SIGN AND THE WORK ZONE. ADJUST THE PLACEMENT OF THIS SIGN BASED ON INTERSECTION LOCATION AND OTHER FIELD CONDITIONS.



SIGN ON PERMANENT SUPPORT

DIRECTION OF TRAFFIC

WORK AREA

TRAFFIC CONTROL, ADVANCE WARNING SIGNS 40 M.P.H. OR LESS TWO-WAY UNDIVIDED 6

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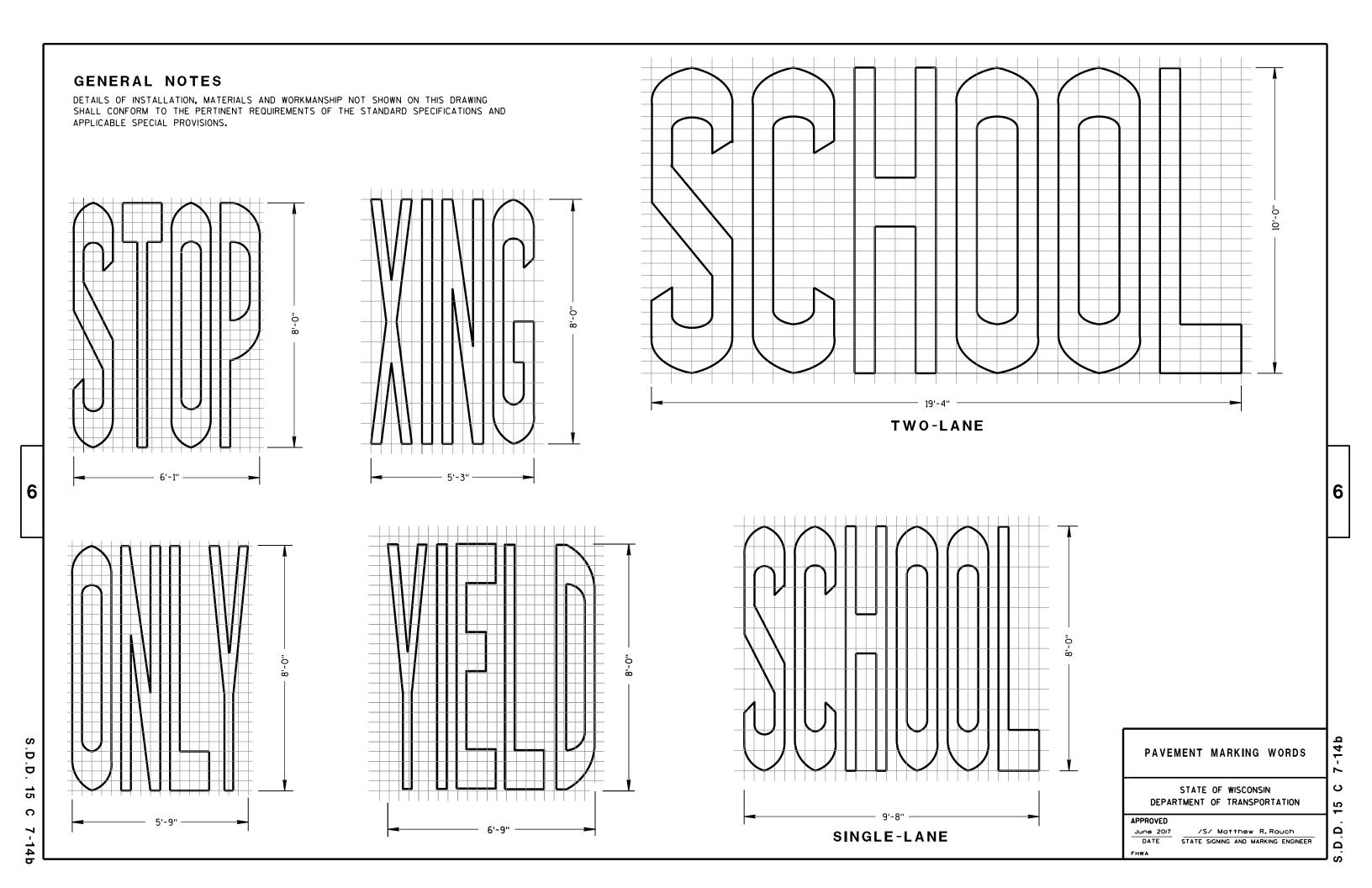
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

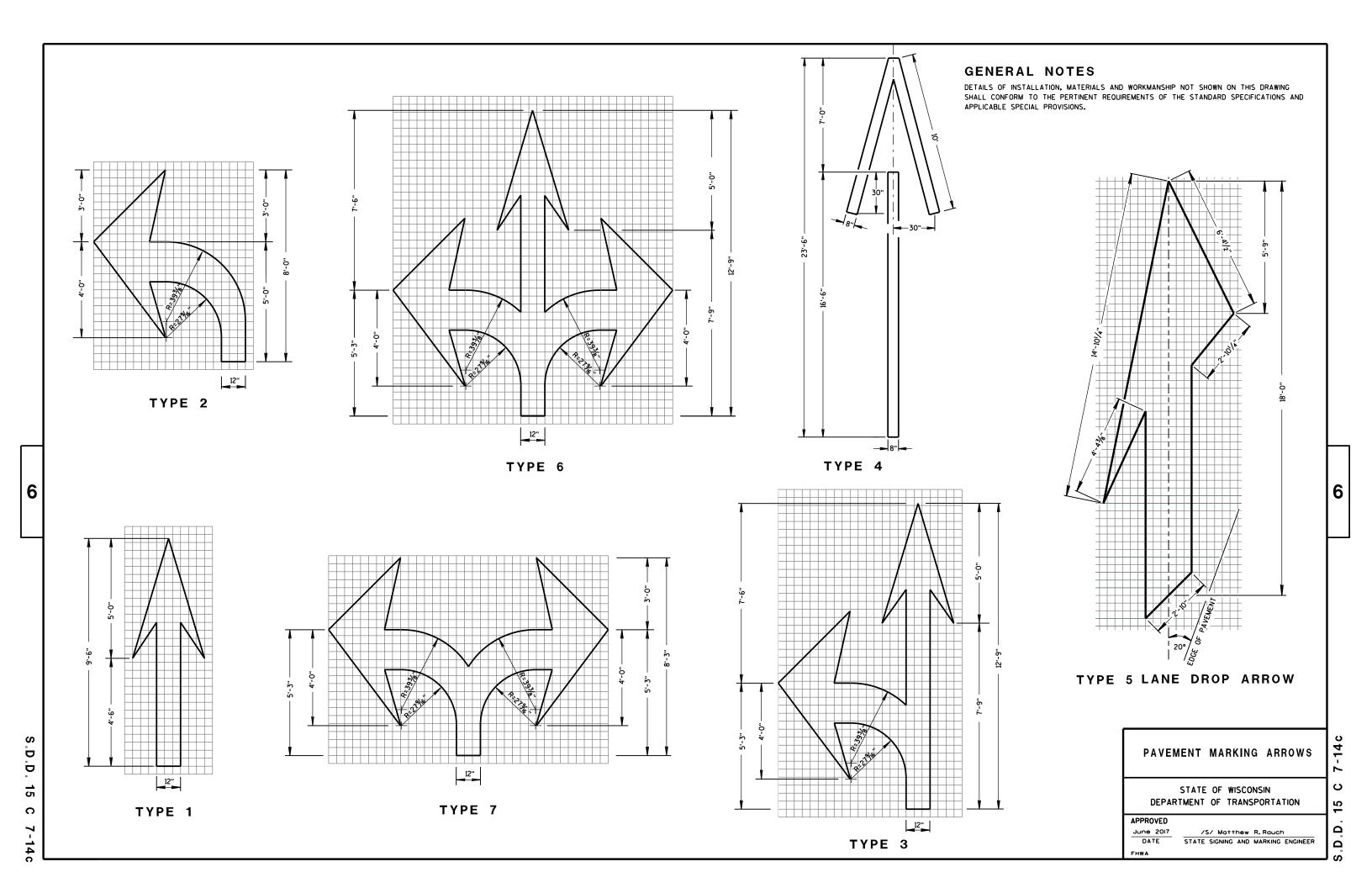
ROAD OPEN TO TRAFFIC

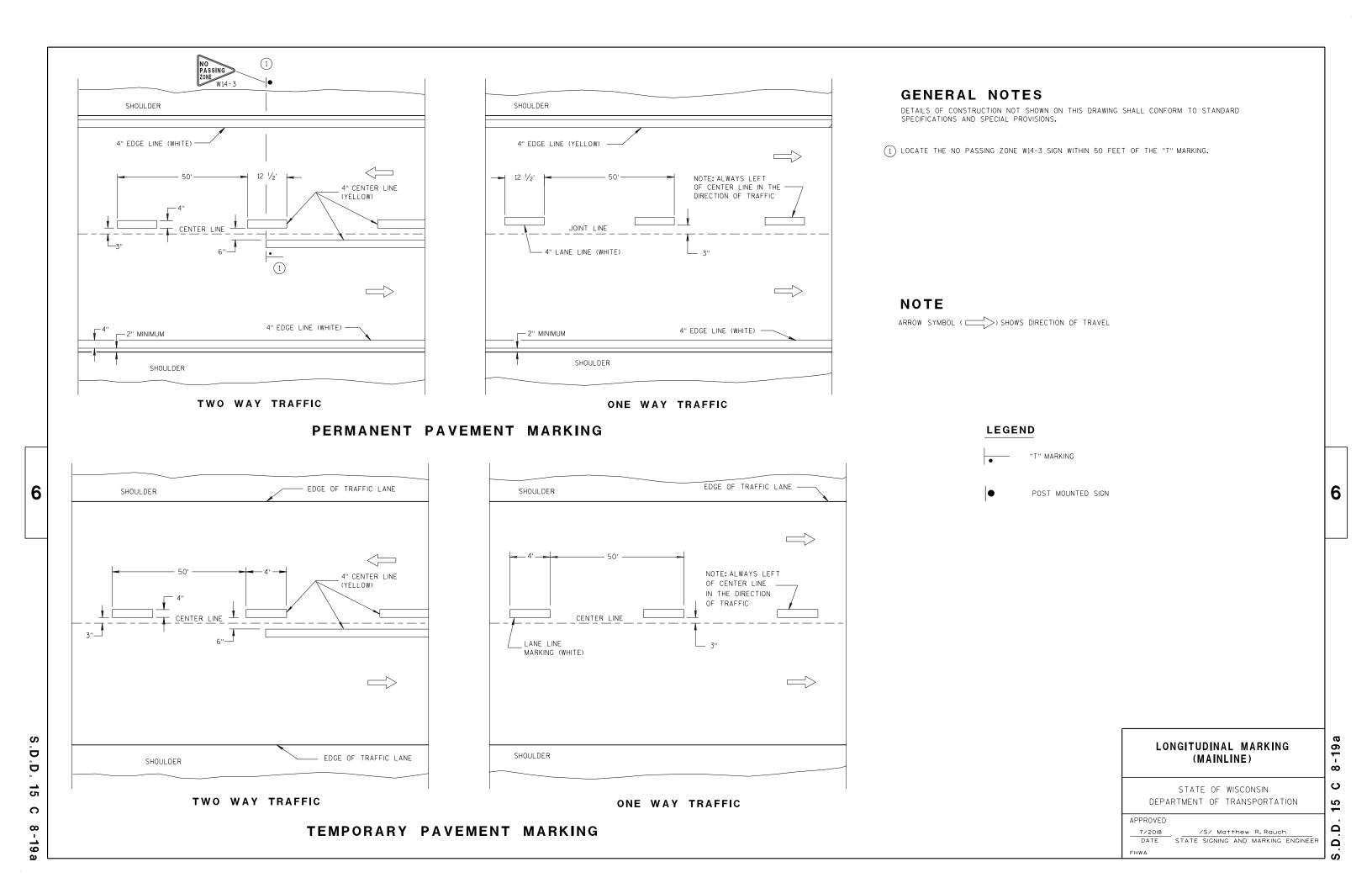
APPROVED

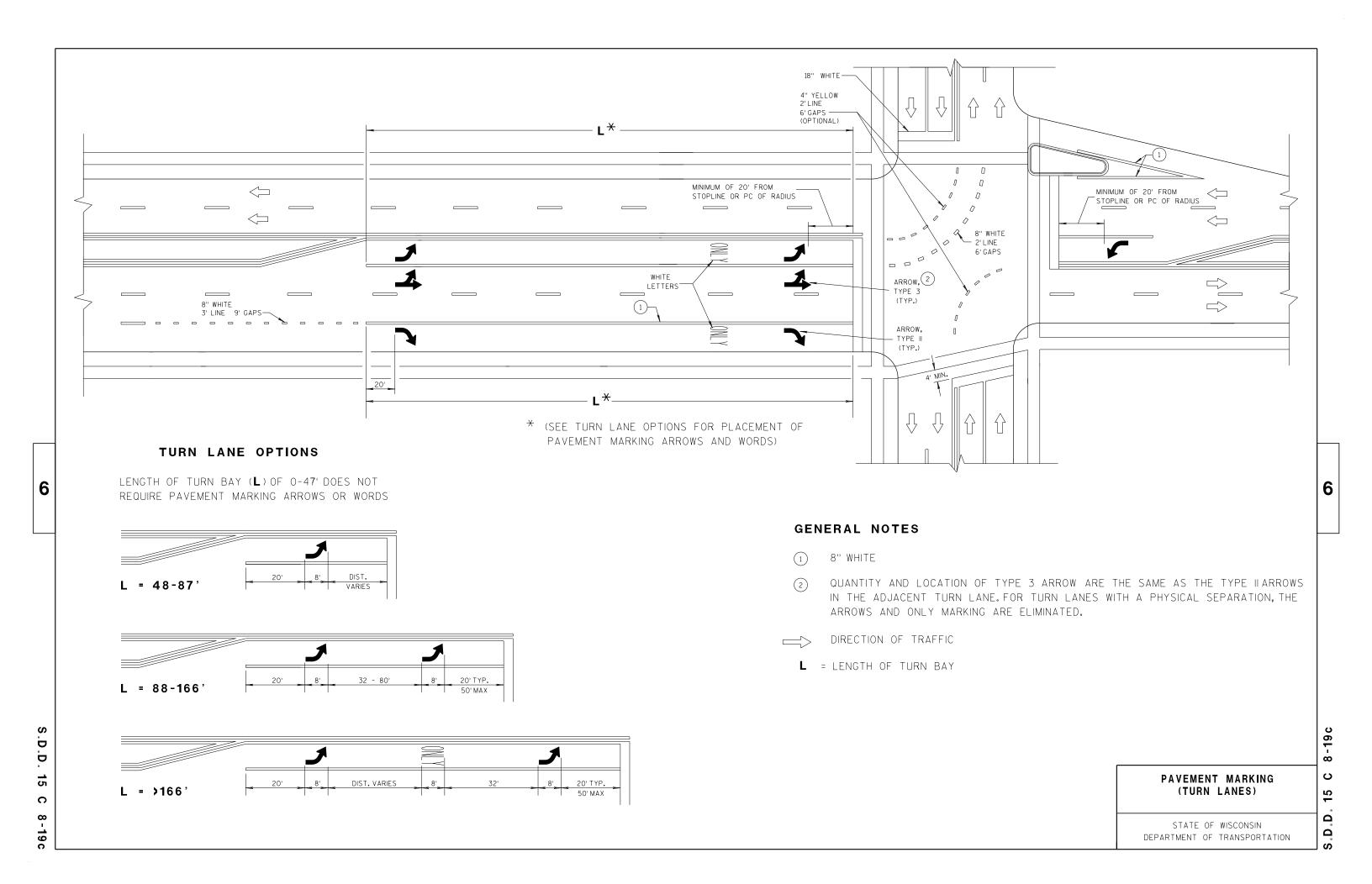
7/2018 /S/ Andrew Heidtke DATE WORK ZONE ENGINEER

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TRAFFIC CONTROL FOR LANE CLOSURE WITH FLAGGING OPERATION

STOP/SLOW PADDLE ON SUPPORT STAFF

5' MIN.

WORK

AHEAD

48" X 24"

END ROAD WORK G20-2A

(2)

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W20-1A

GENERAL NOTES

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

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

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

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

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

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

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

FLAGGERS SHALL BE IN SIGHT OF EACH OTHER OR IN DIRECT COMMUNICATION AT ALL TIMES. THEY SHALL BE EQUIPPED WITH STOP/SLOW PADDLES FASTENED ON SUPPORT STAFFS. WHEN THE FLAGGING OPERATION IS NOT IN EFFECT. REMOVE TEMPORARY RUMBLE STRIPS PRIOR TO COVERING OR REMOVING ALL ADVANCE SIGNING.

* UTILIZE TEMPORARY RUMBLE STRIPS WHEN FLAGGING OPERATION IS ANTICIPATED TO BE STATIONARY IN EXCESS OF TWO HOURS.

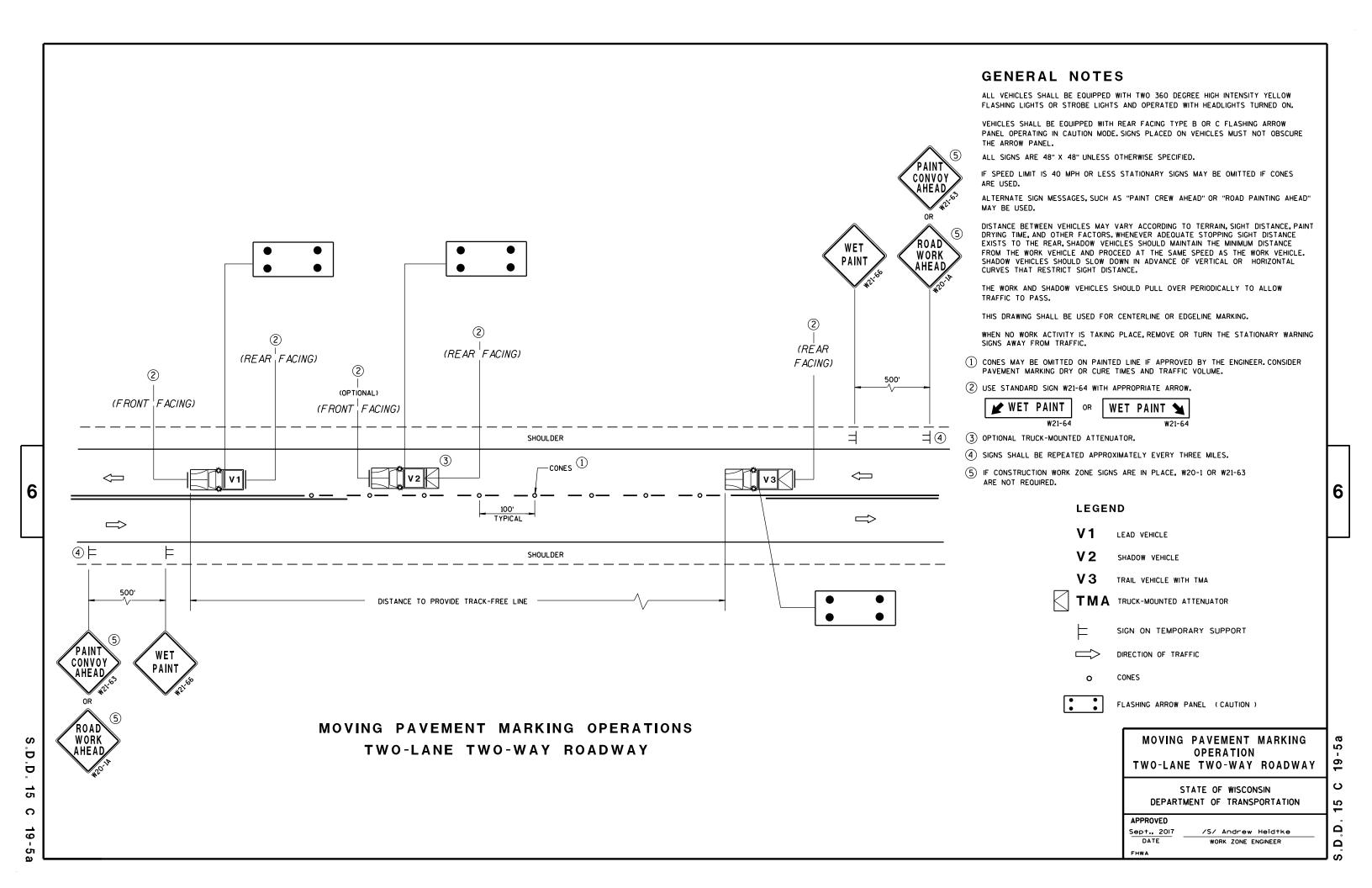
- 1) FOR A MOVING WORK OPERATION, SIGNING AND TEMPORARY RUMBLE STRIPS (IF USED) SHALL BE REESTABLISHED (AS SIMULTANEOUSLY AS PRACTICAL) AT APPROXIMATELY 3,500 FOOT INTERVALS IN THE MOVING WORK OPERATION OR AS APPROVED BY THE ENGINEER.
- SIGN NOT REQUIRED IF FLAGGING OPERATION OCCURS WITHIN A SIGNED ROAD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

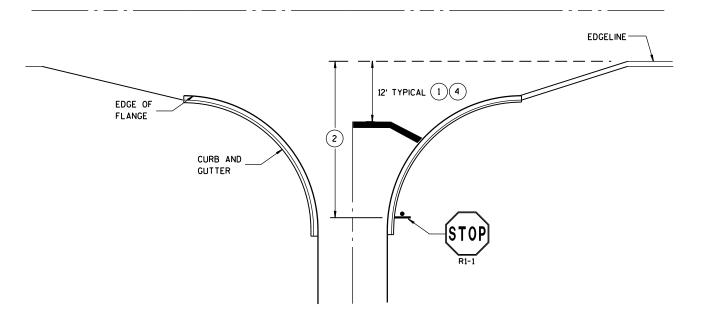
TRAFFIC CONTROL FOR LANE CLOSURE WITH FLAGGING OPERATION

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

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

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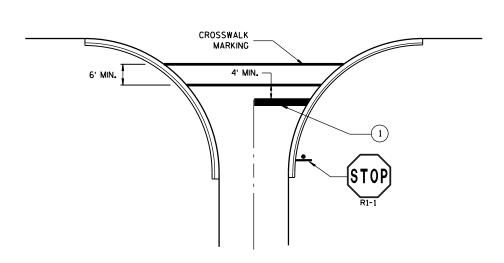




8" CHANNELIZATION WHITE FLANGELINE (EXTENSION) WHITE EDGELINE 4' TYPICAL (4)

TYPICAL STOP LINE PAVEMENT MARKING WITH CURB AND GUTTER

TYPICAL STOP LINE PAVEMENT MARKING FOR SIDEROADS WITH RIGHT TURN LANE



- EDGELINE 12' TYPICAL (1)

TYPICAL STOP LINE PAVEMENT MARKING FOR SIDEROADS WITH CROSSWALK MARKING

TYPICAL STOP LINE PAVEMENT MARKING WITHOUT CURB AND GUTTER

GENERAL NOTES

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

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

STOP LINE AND CROSSWALK **PAVEMENT MARKING**

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

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

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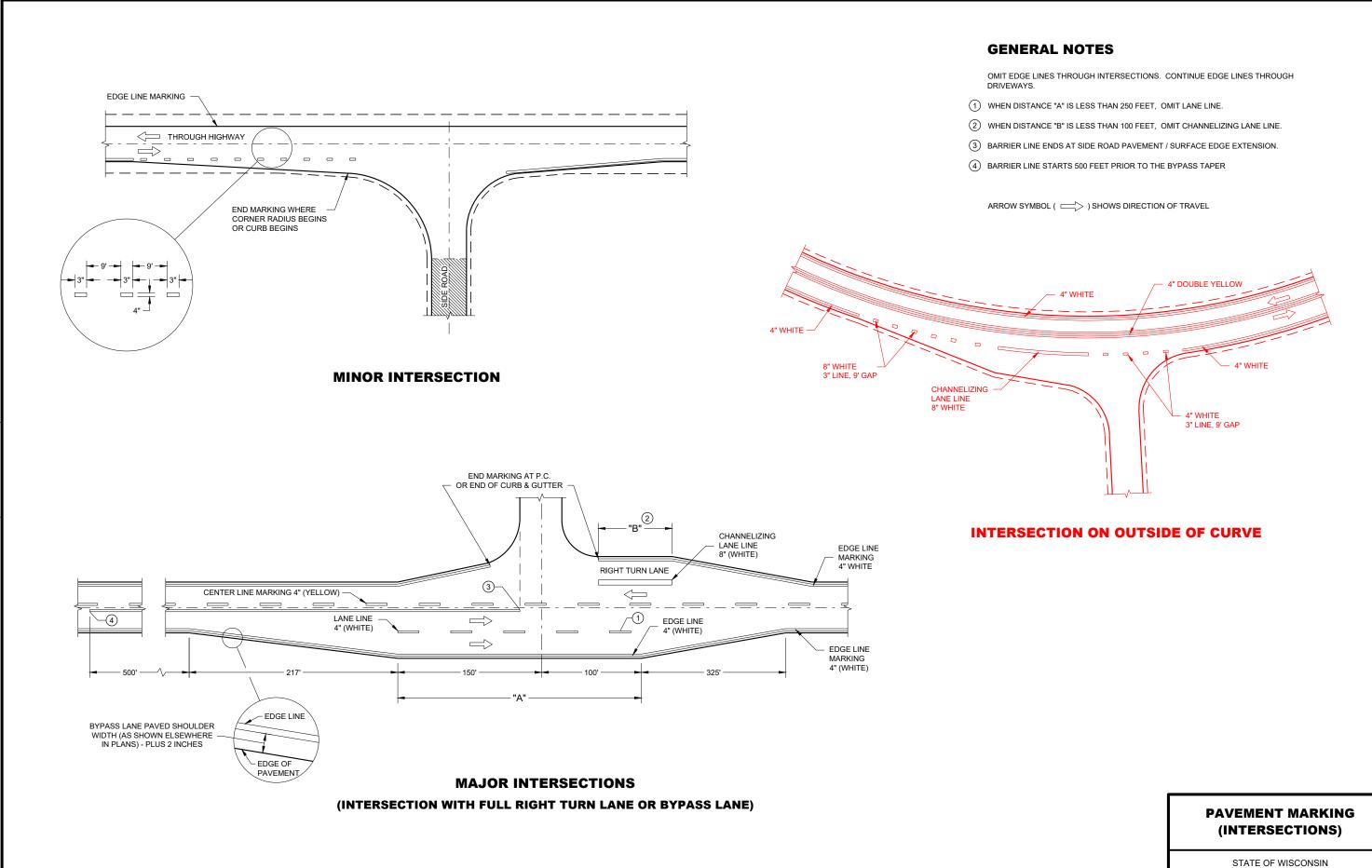
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DEPARTMENT OF TRANSPORTATION



TUBULAR STEEL POSTS

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

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

URBAN AREA

POST MOUNTING DETAIL FOR TEMPORARY TRAFFIC CONTROL FIXED MESSAGE SIGNS

WOOD POST **EMBEDMENT DEPTH**

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

4" X 6" WOOD POST

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

SEE NOTE (3)

RURAL AREA

TEMPORARY TRAFFIC CONTROL SIGN MOUNTING

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

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- 11/2" DIAMETER HOLES

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

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

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

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

LAG SCREWS - 3/8" X 3"

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

SQUARE STEEL POSTS (2" x 2")

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

RIVETS - 1/32 " (6605-9-6) BULB-TITE, TRI-FOLD, ALUMINUM BODY/MANDREL O.D. FLANGE .720-.765 INCH, GRIP RANGE .042-.375 INCH

WASHERS (ALL POSTS) -

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

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

* TWO DIFFERENT FASTENING SYSTEMS ARE SHOWN FOR ILLUSTRATION PURPOSES. ON ANY INDIVIDUAL SIGN, EITHER ONE OR THE OTHER SYSTEM SHALL BE USED. ACTUAL NUMBER OF FASTENERS PER SIGN VARIES WITH THE SIGN AREA. FOR A SINGLE POST INSTALLATION, ALL SIGNS GREATER THAN 9 SQ. FT. REQUIRE THE USE OF 3 FASTENERS.

> ATTACHMENT OF SIGNS TO POSTS

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

APPROVED

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

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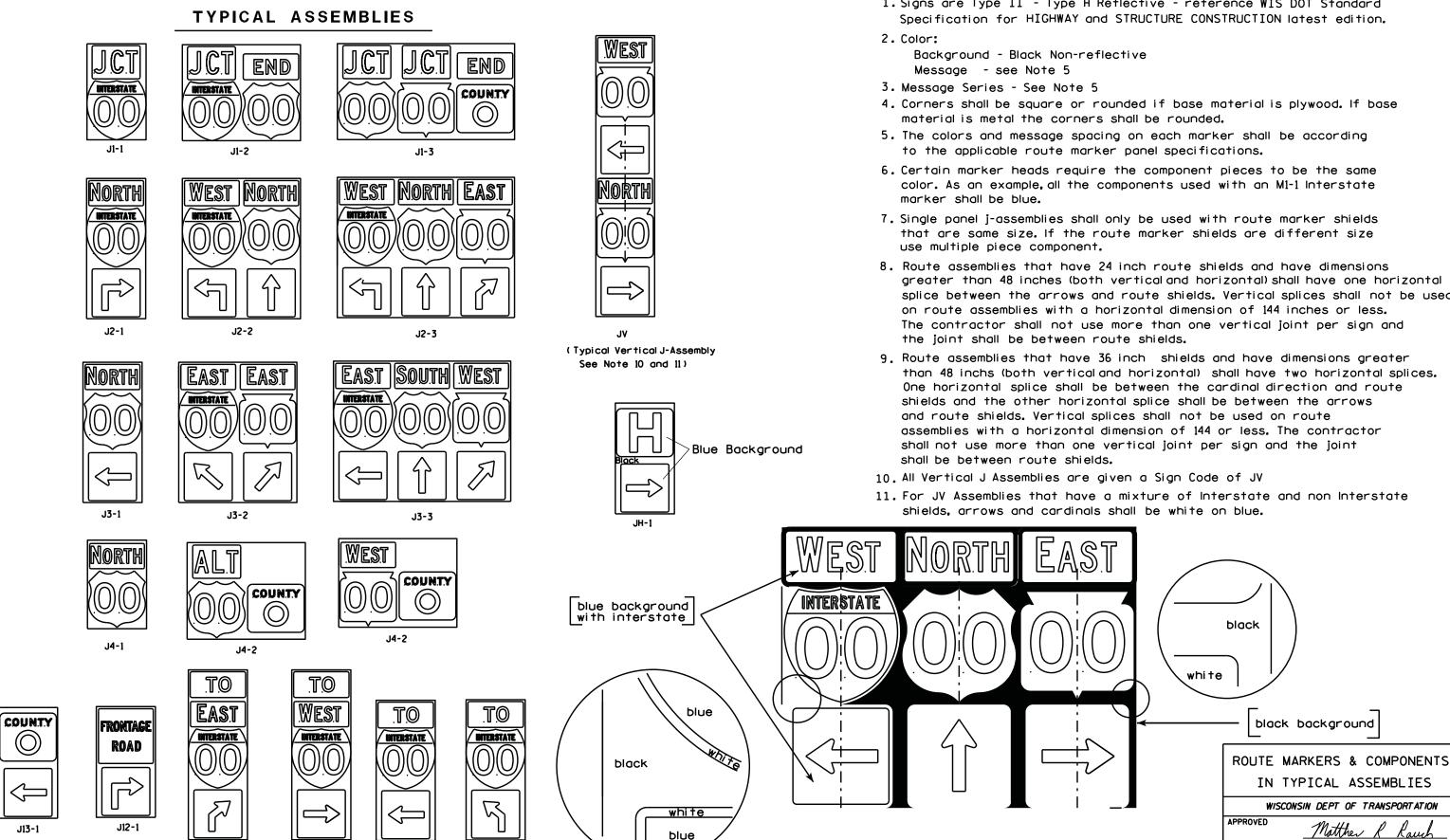
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38-2b

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



PROJECT NO:

J32-1

J22-1

J23-1

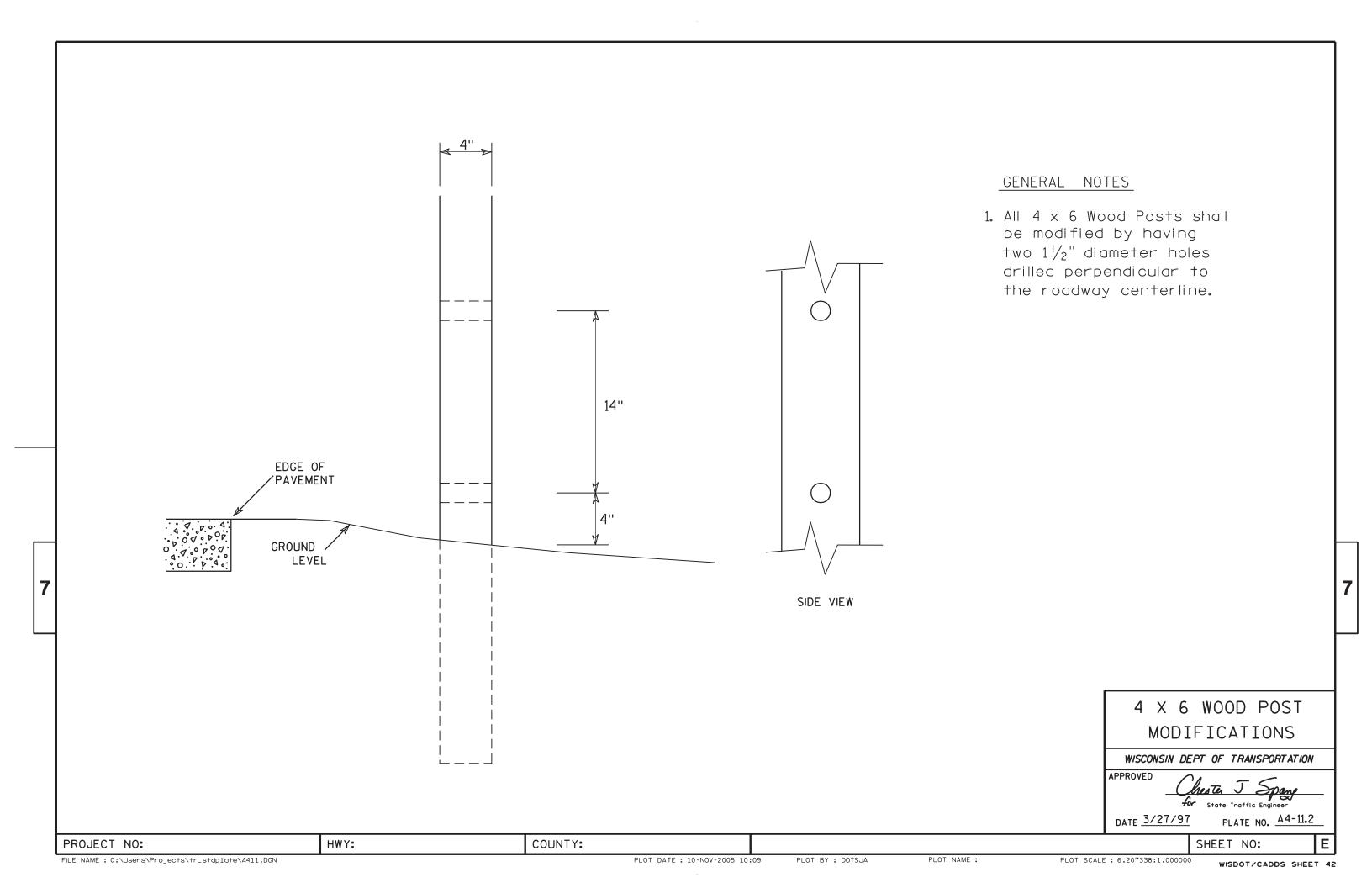
J33-1

PLOT BY: mscsja

PLATE NO. __A2-15.8

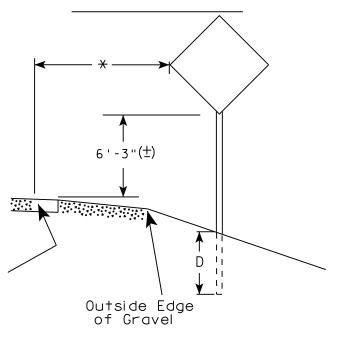
DATE 2/06/14

SHEET NO:

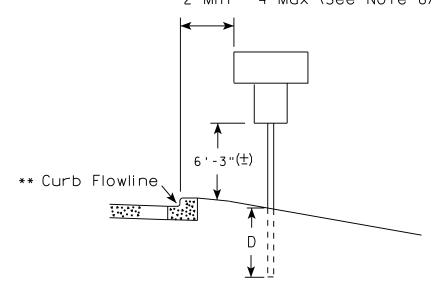


urban area

RURAL AREA (See Note 2)



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



White Edgeline
Location

Outside Edge
of Gravel

** 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.

* 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.

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" (\pm) depending upon existence of a sub-sign.
- 4. J-Assemblies are considered to be one sign for mounting height.
- 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 (\pm) 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" (±). 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" (±).

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

APPROVED

Matther R Rauh

For State Traffic Engineer

DATE 8/21/17 PLATE NO. A4-3.21

SHEET NO:

PROJECT NO: HWY: COUNTY:

DI OT

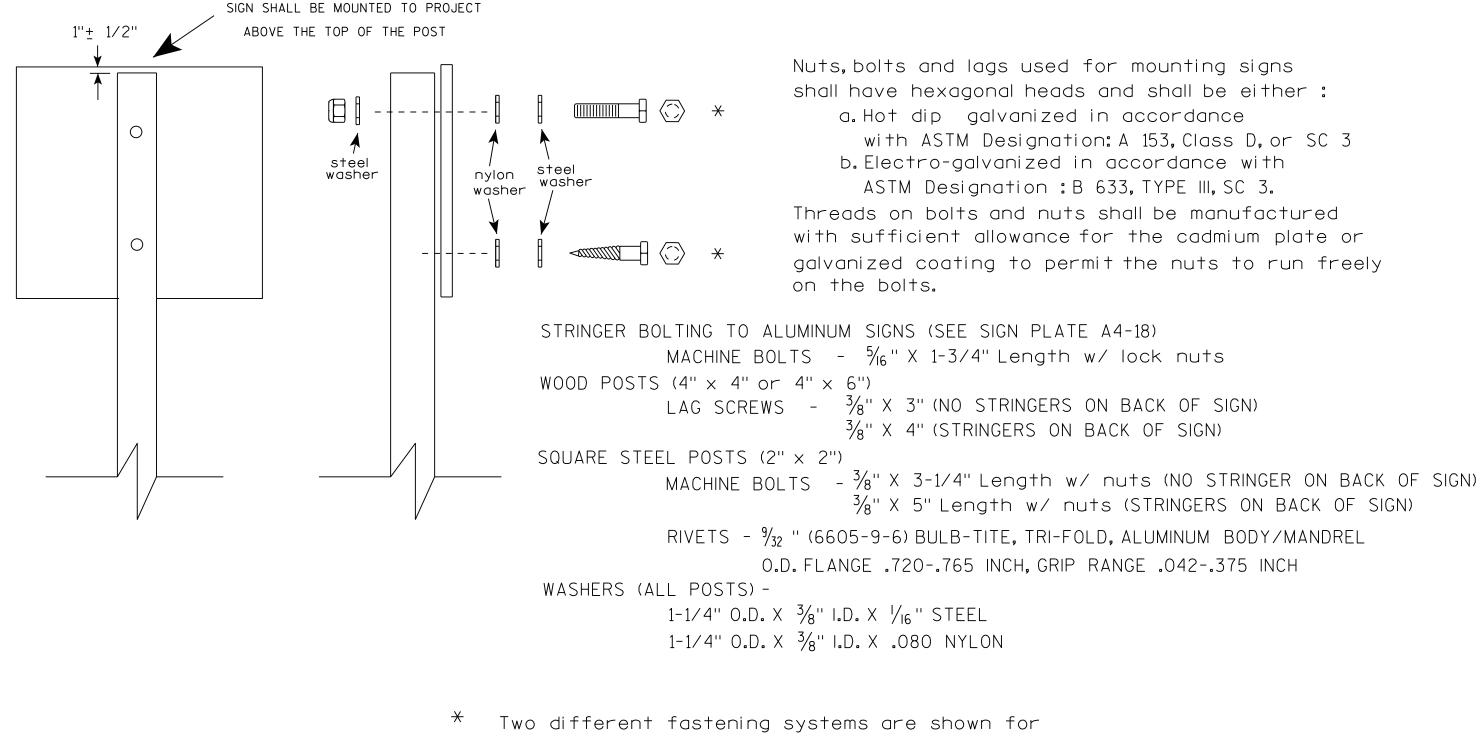
PLOT SCALE : 100.601251:1.000000

00 WISDOT/CADDS SHEET 42

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\A43.DGN

PLOT DATE : 21-AUG-2017 16:04

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



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

For State Traffic Engineer

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

PLATE NO. <u>A4-8.8</u>

SHEET NO:

PROJECT NO:

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

PLOT DATE . 11-416-2016 11:35

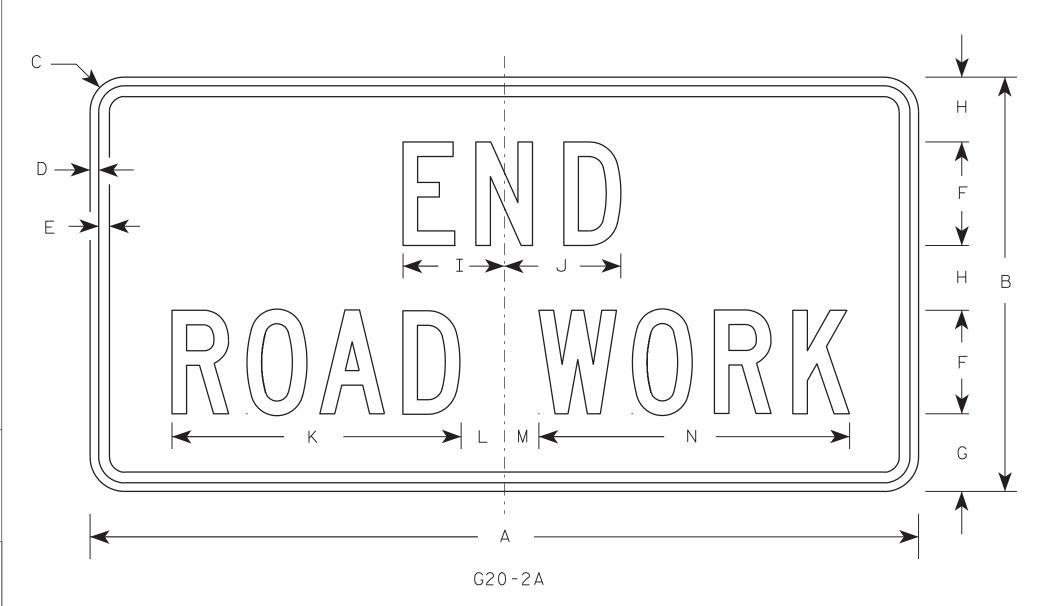
PIOT RY * \$\$ plotuser \$\$

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

2. Color:

Background - Orange Message - Black

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



Metric equivalent for this sign is:

SIZE					
1	900	mm	Χ	450	mm
2	1200	mm	Χ	600	mm
3	1200	mm	Χ	600	mm
4	1200	mm	Χ	600	mm
5	1200	mm	Χ	600	mm

PROJECT NO:

SIZE	Α	В	С	D	E	F	G	Н	I	J	К	L	М	N	0	Р	Q	R	S	Т	U	٧	W	Х	Y	Z	Area sq. ft.	Area m2
1	36	18	1 1/8	3/8	1/2	4	3 3/4	2 1/2	4 1/8	4 1/8	11 1/8	2	1	12 1/8													4.5	0.41
2	48	24	1 1/2	1/2	5/8	6	4 1/2	3 3/4	5 %	6 3/4	16 ¾	2 1/2	1 3/4	18 ½													8.0	0.72
3	48	24	1 1/2	1/2	5/8	6	4 1/2	3 3/4	5 %	6 3/4	16 ¾	2 1/2	1 3/4	18 ½													8.0	0.72
4	48	24	1 1/2	1/2	5/8	6	4 1/2	3 3/4	5 1/8	6 3/4	16 3/4	2 1/2	1 3/4	18 1/2													8.0	0.72
5	48	24	1 1/2	1/2	5/8	6	4 1/2	3 3/4	5 1/8	6 3/4	16 3/4	2 1/2	1 3/4	18 1/2													8.0	0.72

COUNTY:

STANDARD SIGN G20-2A

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

Matthe R Lauch

For State Traffic Engineer

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

SHEET NO:

FILE NAME : C:\Users\PROJECTS\tr_stdplate\G202A.DGN

HWY:

PLOT DATE: 30-SEP-2009 09:31

PLOT NAME :

PLOT BY : ditjph

PLOT SCALE : 5.561773:1.000000

WISDOT/CADDS SHEET 42

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

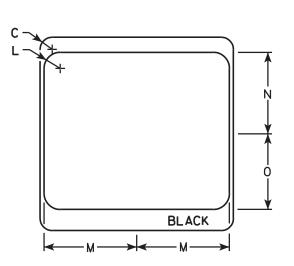
Background - White & Black - See Note 7 Message - Black

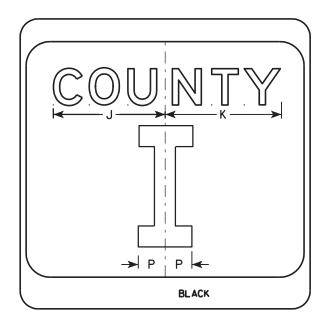
- 3. Message Series see Note 5
- 4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
- 5. Message Series E for 1 letter.

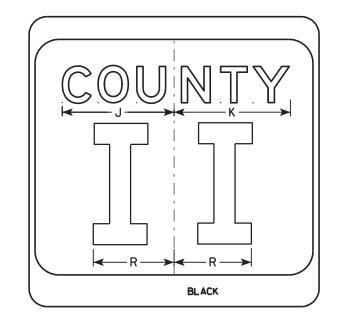
 Message Series D for 2 letters unless
 message is too big then Series C.

 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







PLOT NAME :

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

COUNTY:

CTH MARKER
M1-5A FOR ASSEMBLIES

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

Matther R Rauch
Forstate Traffic Engineer

DATE 9/27/11

SHEET NO:

PROJECT NO:

BLACK

HWY:

M1-5A

PLATE NO. M1-5A.8

- 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

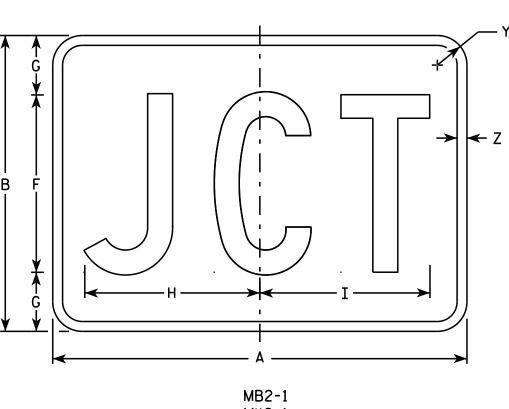
Message - White

MP2-1 Background - White

Message - Blue

MR2-1 Background - Brown

Message - Yellow



MK2-1

MN2-1

MR2-1

SIZE	Α	В	С	D	Ε	F	G	н	I	J	К	L	М	N	0	Р	0	R	S	Т	U	V	W	X	Y	Z	Areo sq. ft.
1																											
2	21	15	1 1/8	3/8	3/8	9	3	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
PRO	PROJECT NO: HWY:									COLL	NTY:																

STANDARD SIGN

M2 - 1

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

for State Traffic Engineer

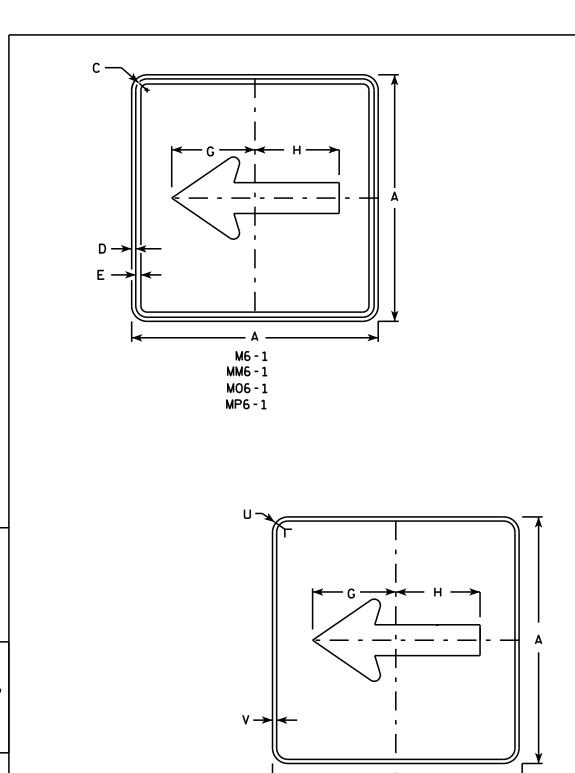
DATE 10/15/15

PLATE NO. M2-1.12

SHEET NO:

M2-1

MM2-1 MP2-1



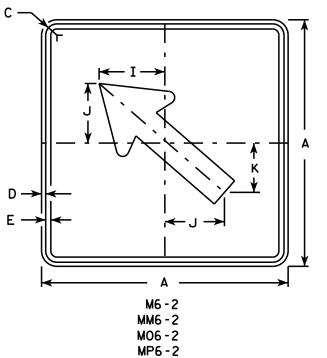
MB6 - 1

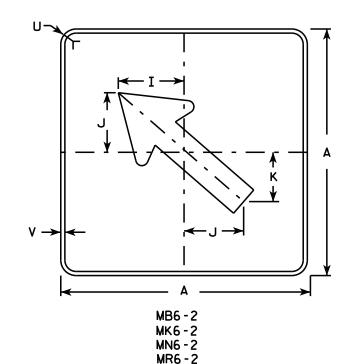
MK6-1

MN6 - 1

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

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	- N
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← L → I	

SIZE	Α	В	С	D	E	F	G	Н	I	J	K	L	M	N	0	Р	0	R	S	T	U	٧	₩	Х	Y	Z	Areg 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 %	1/2	5/8		10 ¾	10 1/4	8	7 1/4	6	7 1/2	4 1/4	3 3/4	3/4						1 %	1/2					6.25
4	30		1 3/8	1/2	5/8		10 ¾	10 1/4	8	7 1/4	6	7 1/2	4 1/4	3 3/4	3/4						1 %	1/2					6.25
5	30		1 3/8	1/2	5/8		10 ¾	10 1/4	8	7 1/4	6	7 1/2	4 1/4	3 3/4	3/4						1 %	1/2					6.25

COUNTY:

STANDARD SIGN M6-1 & M6-2 SERIES

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

Matther & Rauh

for State Traffic Engineer

DATE 10/15/15

5/15 PLATE NO. M6-1.15
SHEET NO: E

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\M61.DGN

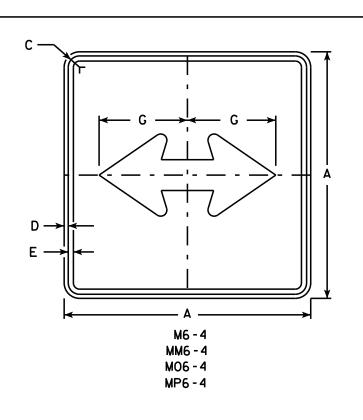
PROJECT NO:

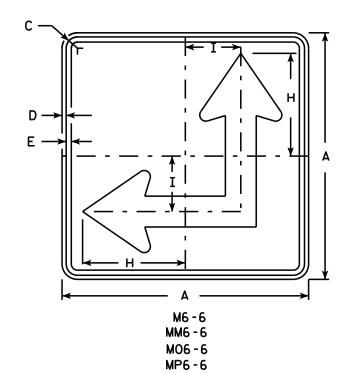
PLOT DATE : 15-0CT-2015 13:17

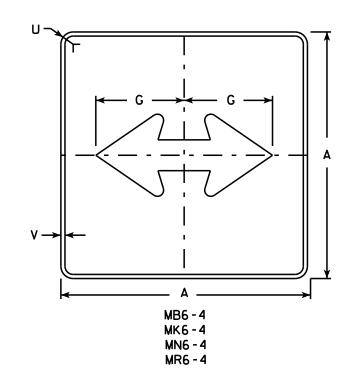
PLOT BY : \$\$...plotuser...\$\$ PLOT NAME :

PLOT SCALE : 18.607113:1.000000

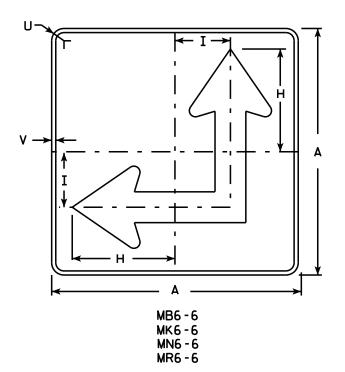
WISDOT/CADDS SHEET 42







HWY:



<u>NOTES</u>

- 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

MM6-4 and MM6-6 Background - White

Message - Green

MN6-4 and MN6-6 Background - Brown

Message - White

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

Message - Black

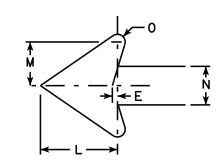
MP6-4 and MP6-6 Background - White

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	A	В	С	D	Ε	F	G	Н	I	J	K	L	М	N	0	P	0	R	S	T	U	٧	₩	X	Y	Z	Areg 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 ¾	12 1/2	6 ¾			7 1/2	4 1/4	3 3/4	3/4						1 %	1/2					6.25
4	30		1 3/8	1/2	5/8		10 ¾	12 1/2	6 ¾			7 1/2	4 1/4	3 3/4	3/4						1 %	1/2					6.25
5	30		1 3/8	1/2	5/8		10 ¾	12 1/2	6 ¾			7 1/2	4 1/4	3 3/4	3/4						1 %	1/2					6.25

COUNTY:

STANDARD SIGN M6-4 & M6-6 SERIES

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

Matther & Rauh

for State Traffic Engineer

DATE 10/15/15 PLATE NO. M6-4.10

SHEET NO:

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 - Red Message - White

3. Message Series - C

	A	G —					F — ¥		★
D E F G H I J K L		0 P	0	R S	Т	U	v	w	х

SIZE	Λ.	В		n	Е		G	Н	т		K	1	М	N	^	ь	 l p	· ·	Т	11	v	w	Y		7	Area sq. ft.
SIZL		<u> </u>	<u> </u>			<u> </u>					- 1		IVI	- 14			 <u> </u>		-	U	V	117		'		
1	30				5/8	10	12 1/2	45°		12 3/4																5.18
2S	30				5/8	10	12 1/2	45°		12 3/4																5.18
2М	36				3/4	12	15	45°		15 3/8																7.46
3	36				3/4	12	15	45°		15 3/8																7.46
4	48				1	16	20	45°		20 1/2																13.25
5	48				1	16	20	45°		20 1/2																13.25
6	18				3∕8	6	7 3/4	45°		7 3/4																1.86
7	12				1/4	4	5	45°		5 1/8																0.78

COUNTY:

STANDARD SIGN R1-1

WISCONSIN DEPT OF TRANSPORTATION

APPROVED M 441

For State Traffic Engineer

DATE <u>11/12/15</u>

PLATE NO. _____R1-1.13

SHEET NO:

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\R11.DGN

HWY:

PROJECT NO:

PLOT DATE: 22-AUG-2017 07:19

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

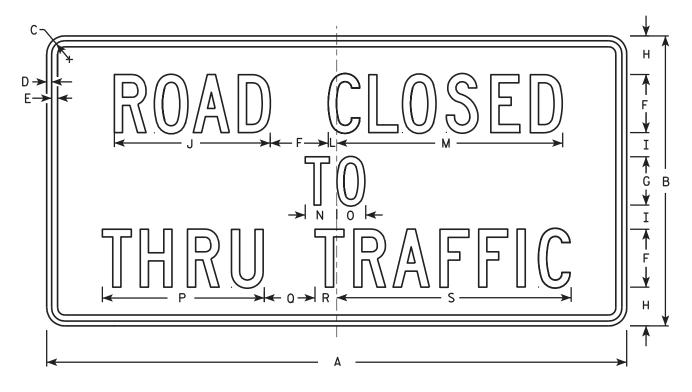
PLOT SCALE: 4.427909:1.000000

WISDOT/CADDS SHEET 42

- 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.



R11-4

SIZE	Α	В	С	D	E	F	G	Н	I	J	K	L	М	N	0	Р	0	R	S	T	U	٧	W	Х	Y	Z	Area sq. ft.
1																											
2S	60	30	1 3/8	1/2	5/8	6	5	4	2 1/2	16 1/8		<i>7</i> ⁄8	23 ¾	3 1/4	3	16 3/4	5 1/4	2 1/4	24 1/4								12.5
2M	60	30	1 3/8	1/2	5/8	6	5	4	2 1/2	16 1/8		7∕8	23 3/8	3 1/4	3	16 3/4	5 1/4	2 1/4	24 1/4								12.5
3																											
4																											
5																											

COUNTY:

STANDARD SIGN R11 - 4

WISCONSIN DEPT OF TRANSPORTATION

DATE 4/1/11 PLATE NO. R11-4.3

SHEET NO:

FILE NAME : C:\Users\PROJECTS\tr_stdplate\R114.DGN

PROJECT NO:

HWY:

PLOT DATE: 01-APR-2011 14:11

PLOT BY: mscj9h

PLOT NAME :

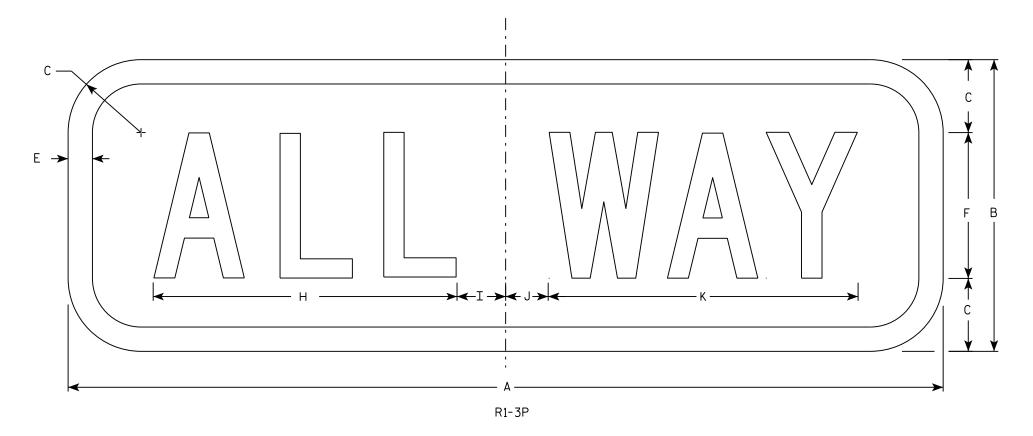
PLOT SCALE: 9.931739:1.000000

WISDOT/CADDS SHEET 42

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

Background - Red Message - White

- 3. Message Series C
- 4. For 30"x30" R1-1 use 18"x6" R1-3P sign For 36"x36" R1-1 use 24"x9" R1-3P sign For 48"x48" R1-1 use 30"x12" R1-3P sign



SIZE	Α	В	С	D	E	F	G H	I	J	K	L	М	N	0	Р	Q	R	S	Т	U	٧	W	Х	Y	Z	Area sq. ft.
1	18	6	1 1/2		1/2	3	6 1/4	1 1/4	7/8	6 3/8																0.75
2S	18	6	1 1/2		1/2	3	6 1/4	1 1/4	7/8	6 3/8																1.5
2M	24	9	1 1/2		1/2	5	9 1/4	1 1/4	3/4	9 3/4																1.5
3	24	9	1 1/2		1/2	5	9 1/4	1 1/4	3/4	9 3/4																1.5
4	30	12	2 1/4		5/8	6	11	2 1/4	1 1/2	11 3/4																2.5
5	30	12	2 1/4		5%	6	11	2 1/4	1 1/2	11 3/4																2.5

COUNTY:

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

 $f_{\it or}$ State Traffic Engineer

STANDARD SIGN

R1-3P

DATE 11/29/16

SHEET NO:

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\R13P.DGN

HWY:

PROJECT NO:

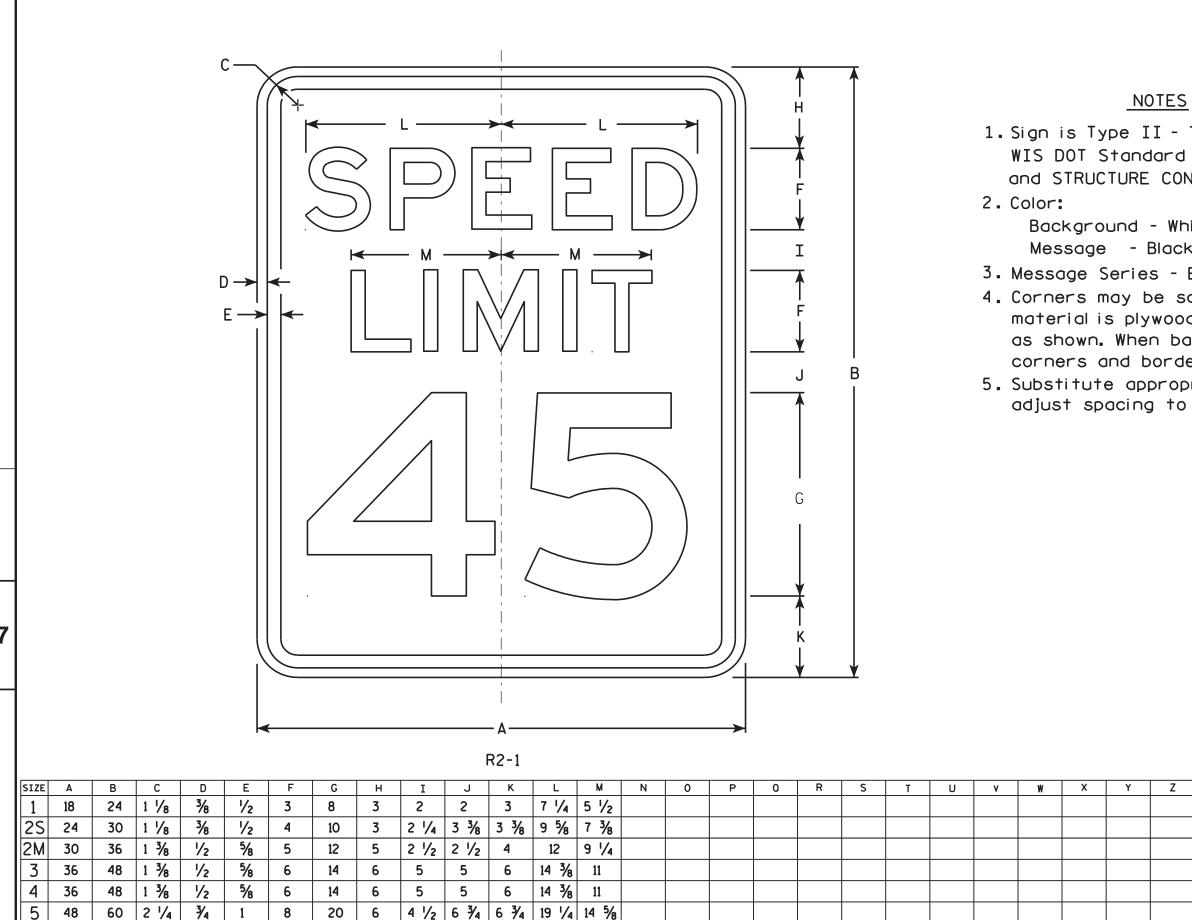
PLOT DATE: 29-NOV-2016 14:03

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

PLOT SCALE: 1.974123:1.000000

WISDOT/CADDS SHEET 42

PLATE NO. R1-3P.3



COUNTY:

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

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 Raw

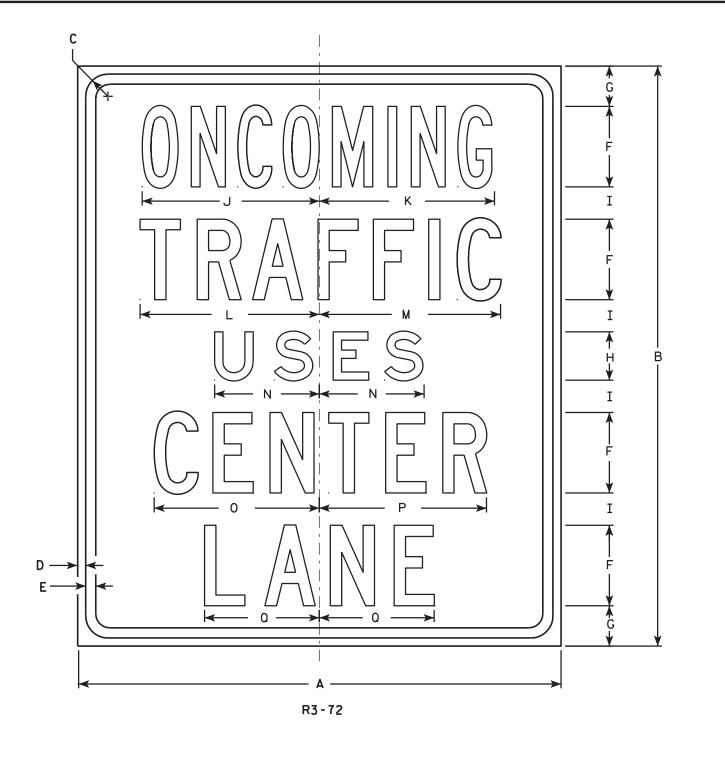
For State Traffic Engineer DATE 5/26/10 PLATE NO. R2-1.13

SHEET NO:

PROJECT NO:

HWY:

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 - Black

- 3. Message Series Line 1 is Series B, Lines 2, 4 and 5 are Series C, and Line 3 is 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.

SIZE	Α	В	С	D	E	F	G	Н	I	J	K	L	М	N	0	Р	0	R	S	T	U	٧	W	Х	Y	Z	Area sq. ft.
1	30	36	1 3/8	1/2	5/8	5	2 1/2	3	2	11	10 1/8	11 1/8	11 1/4	6 1/2	10 1/4	10 3/8	7 1/8										7.50
25	30	36	1 3/8	1/2	5/8	5	2 1/2	3	2	11	10 1/8	11 1/8	11 1/4	6 1/2	10 1/4	10 3/8	7 1/8										7.50
2M	30	36	1 3/8	1/2	5/8	5	2 1/2	3	2	11	10 1/8	11 1/8	11 1/4	6 1/2	10 1/4	10 3/8	7 1/8										7.50
3																											
4																											
5																											
													_														

COUNTY:

STANDARD SIGN R3-72

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

₹ar State Traffic Engineer

DATE 3/25/2011 PLATE NO. R3-72.5

SHEET NO:

HWY:

PROJECT NO:

PLOT NAME :



<u>NOTES</u>

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

Background - White Message - Black

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

SIZE A В С Ε G Н K 2S 3/8 10 6 1/4 6 3/4 7 1/8 7 5/8 1/2 3 % 2 1/4 9 3/4 5.0 24 30 | 1 1/8 3 1/4 9 3/4 10 6 1/4 6 3/4 7 1/8 7 5/8 1/2 5.0 24 30 | 1 1/8 3 48 1 1 1/8 5/8 3/4 15 9 3/8 14 5/8 10 10 3/4 11 3/8 12.0 36 3/4 9 3/8 10 3/4 11 3/8 36 1 % 15 10 12.0 48 5 7 1/4 4 1/2 19 1/2 20 12 1/2 13 1/2 14 1/4 15 1/4 48 60 2 1/4 20.0

STANDARD SIGN R4-3

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

Matther & Kar For State Traffic Engineer

DATE 3/25/2011 PLATE NO. R4-3.8

SHEET NO:

FILE NAME : C:\Users\PROJECTS\tr_stdplate\R43.DGN

PROJECT NO:

PLOT DATE: 25-MAR-2011 13:40

PLOT BY: mscsja

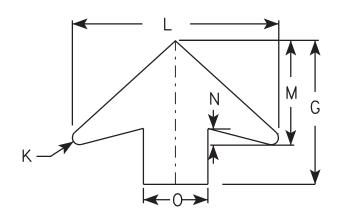
00 S3-1

NOTES

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

Background - YELLOW-GREEN Message - BLACK except as noted Circles except PEDS- RED BACKGROUND

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.



ARROW DETAIL

SIZE	Α	В	С	D	Е	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	30		1 3/8	1/2	5/8	6 1/4	11 1/2	12 1/2	5 1/4	5 ½	1/2	16	8	1 1/4	5	1 1/2		6 %	5 3/8	10 3/8							6.25
2	36		1 5/8	5/8	3/4	7 1/2	13 1/	2 15 1/8	6 1/4	6 1/2	5/8	19 1/4	9 3/4	1 %	6	1 1/8		7 1/8	6 3/8	12 3/8							9.0
3	48		2 1/4	3/4	1	10	17 7/	20 1/8	8 3/8	8 ¾	7/8	25 %	13	2	8	2 1/2		10 1/2	8 1/2	16 1/2							16.0
4	48		2 1/4	3/4	1	10	17 7	20 1/8	8 3/8	8 ¾	7 ⁄8	25 %	13	2	8	2 1/2		10 1/2	8 1/2	16 1/2							16.0
5																											

STANDARD SIGN S3-1

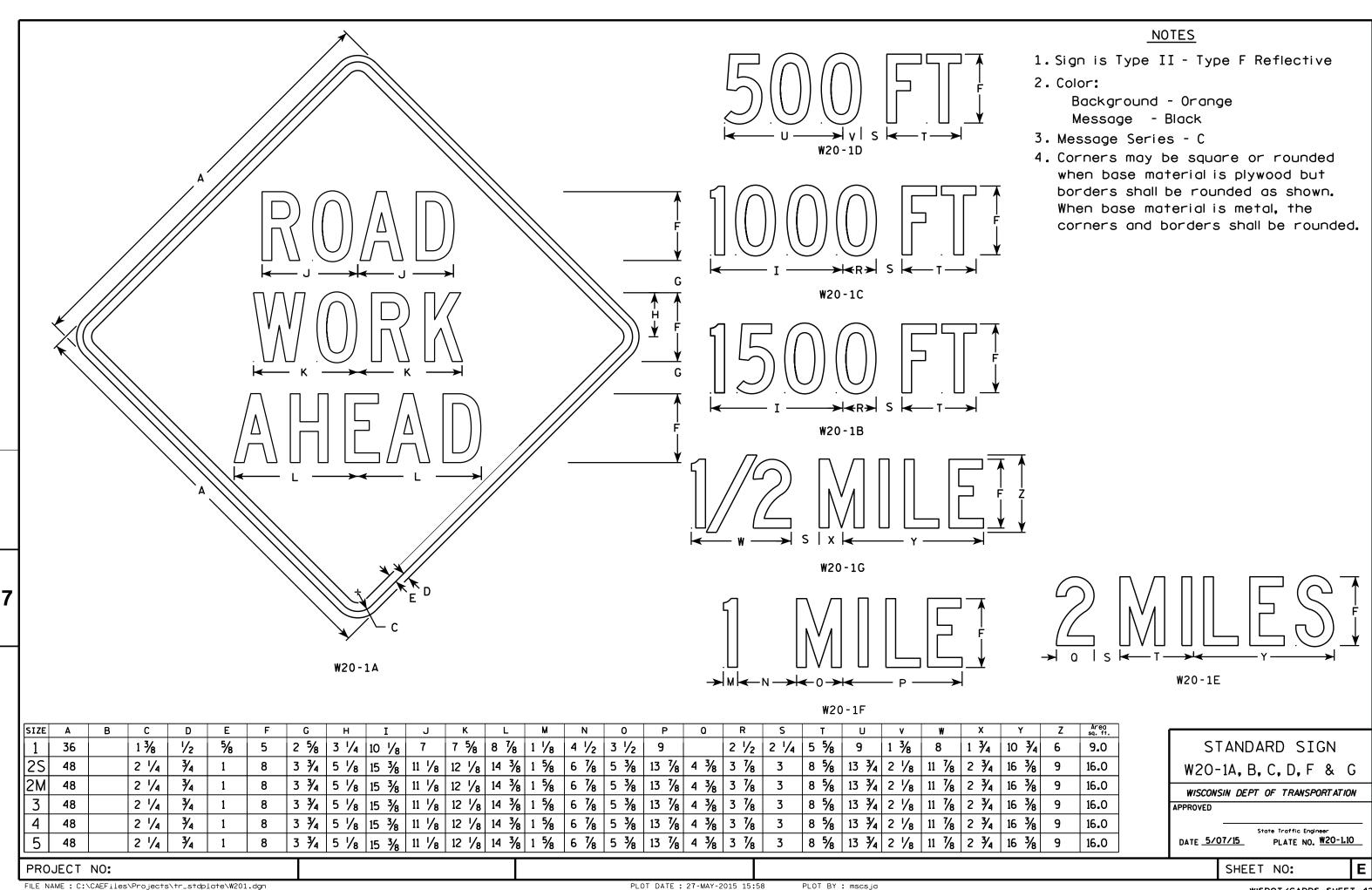
WISCONSIN DEPT OF TRANSPORTATION

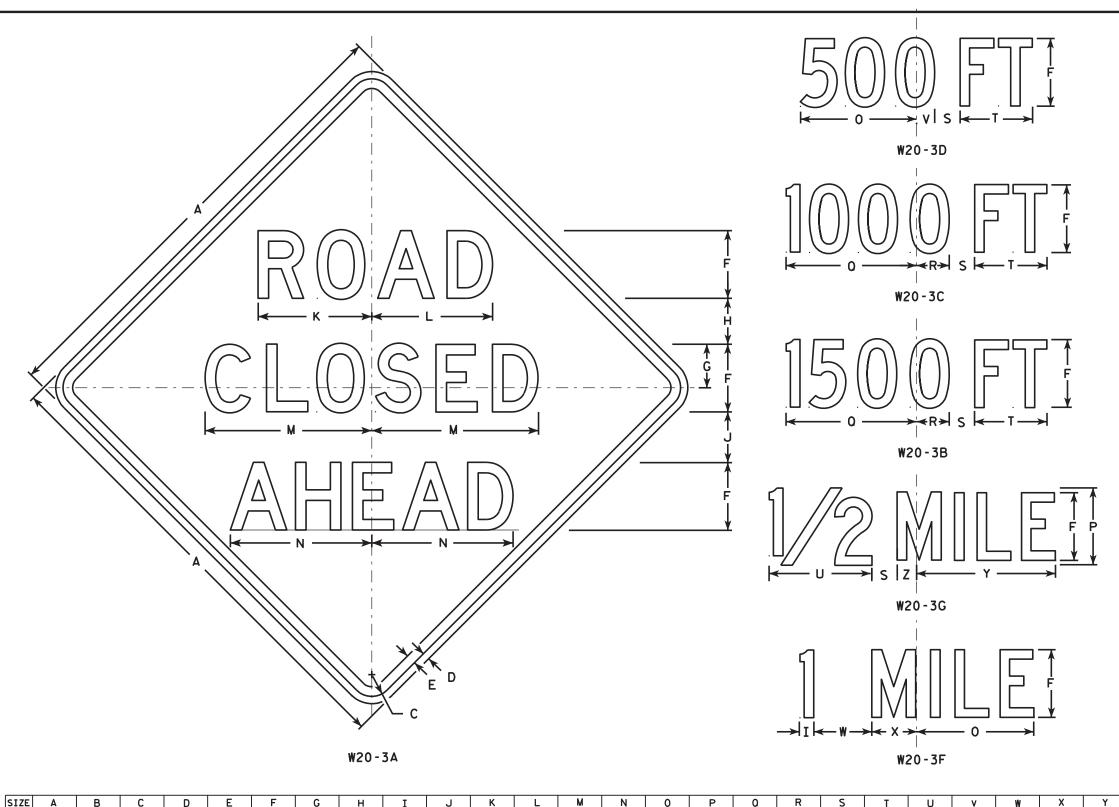
APPROVED

for State Traffic Engineer DATE 6/8/10 PLATE NO. <u>\$3-1.6</u>

SHEET NO:

PROJECT NO:





8 3/8 8 7/8 12 1/2

| 5 1/4 | 11 3/4 | 12 1/2 | 17 1/4 | 14 5/8 |

1 1/2 | 5 1/4 | 11 3/4 | 12 1/2 | 17 1/4 | 14 5/8 |

4 1/2 4 3/4 1 1/2 5 1/4 11 3/4 12 1/2 17 1/4 14 5/8

4 1/2 4 3/4 1 1/2 5 1/4 11 3/4 12 1/2 17 1/4 14 5/8

4 1/2 | 4 3/4 | 1 1/2 | 5 1/4 | 11 3/4 | 12 1/2 | 17 1/4 | 14 5/8 |

NOTES

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

Background - Orange Message - Black

- 3. Message Series see note 5
- 4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
- 5. Lines 1 and 2 are Series D.
 Line 3 is Series D for AHEAD and
 Series C for all other distances.

1 3/8 4 1/2 10 1/8 2 1/2 5 % 3 1/2 10 3/4 1 3/4 8 2 5/8 7 1/2 10 5/8 1 7/8 4 \\[14 \\ 38 \| 2 \\ 38 \| 16.0 4 \(\frac{5}{8} \) 14 \(\frac{3}{8} \) 2 \(\frac{3}{8} \) 16.0 2 % 7 1/2 10 % 1 % 13 1/2 3 3/8 2 5/8 7 1/2 10 5/8 1 3/8 4 % | 14 % | 2 % | 16.0 13 1/2 3 3/8 2 5/8 4 \\ 14 \\ 3\ 2 \\ 3\ 16.0 7 1/2 10 5/8 1 7/8 4 5/8 14 3/8 2 3/8 16.0 13 1/2 3 3/8 2 5/8 7 1/2 10 5/8 1 3/8

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

WISCONSIN DEPT OF TRANSPORTATION

For State Traffic Engineer
DATE 3/18/11 PLATE NO. W20-3.7

PROJECT NO: HWY: COUNTY:

9

12

SHEET NO:

1 %

2 1/4

2 1/4

2 1/4

36

48

48

48

48

2M

4

5

5/8

3/4

3/4

3/4

3/4

3/4

3/4

PLOT BY: mscj9h

NOTES

- 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.

A F C T T T T T T T T T T T T T T T T T T

SIZE	Α	В	С	D	Е	F	G	Н	I	J	K	L	М	N	0	Р	0	R	S	T	U	٧	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 1/8	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

Matther R Rauch

DATE 5/29/12

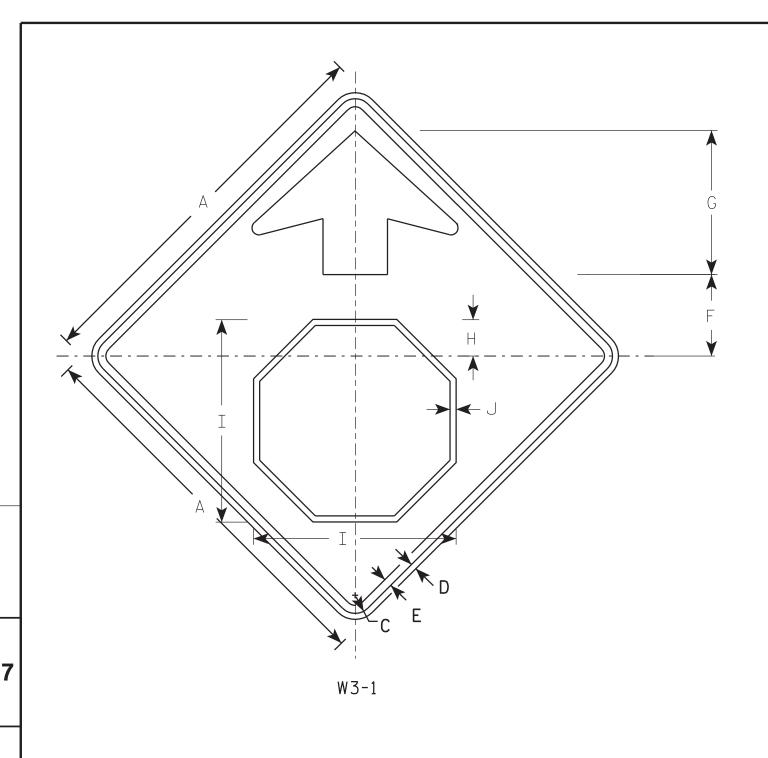
PLATE NO. <u>W2-2.6</u>

SHEET NO:

HWY:

PROJECT NO:

PLOT NAME :



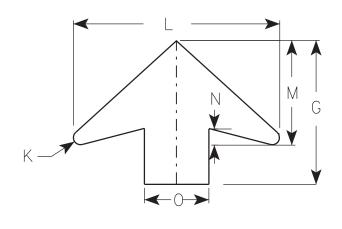
NOTES

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

Background - YELLOW

Arrow & Border - BLACK

Stop Symbol - WHITE BORDER ON RED BACKGROUND



RROW	DETAIL

SIZE	Α	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	Areo sq. ft.
1	30		1 3/8	1/2	5/8	6 1/4	11 1/4	2 1/8	15 ¾	1/2	1/2	16	8	1 1/4	5												6.25
2S	36		1 1/8	5/8	3/4	7 1/2	13 1/2	3 1/2	19	5/8	5/8	19 1/4	9 3/4	1 %	6												9.0
2M	36		1 1 1/8	5/8	3/4	7 1/2	13 1/2	3 1/2	19	5/8	5/8	19 1/4	9 3/4	1 %	6												9.0
3	36		1 1/8	5/8	3/4	7 1/2	13 1/2	3 1/2	19	5/8	5/8	19 1/4	9 3/4	1 %	6												9.0
4	48		2 1/4	3/4	1	10	17 1/8	4 1/2	25 1/8	3/4	7/8	25 %	13	2	8												16.0
5	48		2 1/4	3/4	1	10	17 1/8	4 1/2	25 1/8	3/4	7 ⁄8	25 %	13	2	8												16.0

STANDARD SIGN W3-1

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

Matthew R Rauch

For State Traffic Engineer

DATE 6/7/10 PLATE NO. W3-1.12

SHEET NO:

FILE NAME : C:\Users\PROJECTS\tr_stdplate\W31.DGN

PROJECT NO:

PLOT DATE : 07-JUN-2010 12:59

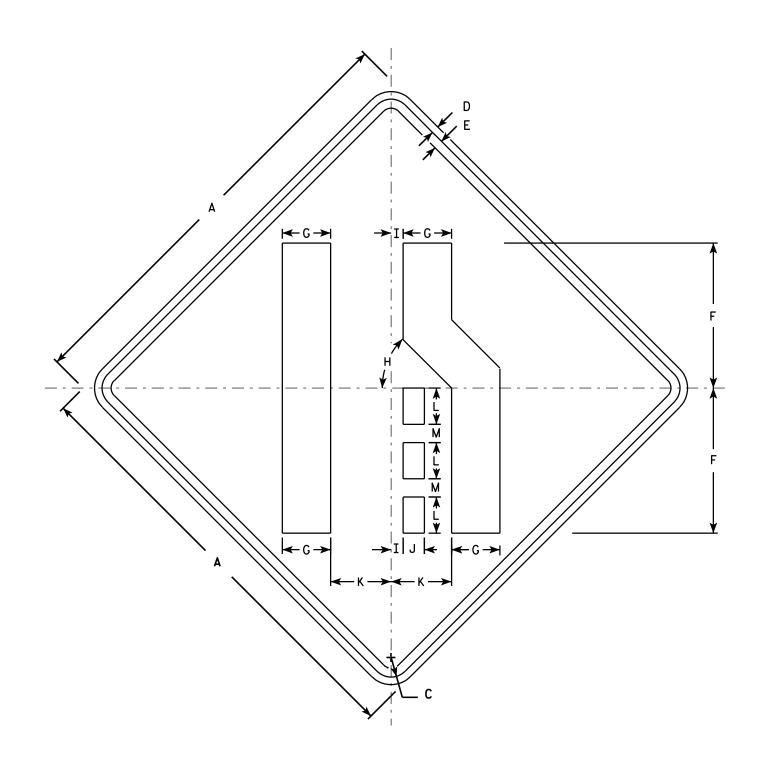
PLOT BY: ditjph

NOTES

- 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. W4-2L is the same as W4-2R except the symbolis reversed along the vertical centerline.



W4-2R

SIZE	Α	В	С	D	E	F	G	Н	I	J	К	L	M	N	0	Р	0	R	S	T	U	٧	W	Х	Y	Z	Areg sq. ft.
1	30		1 3/8	1/2	5/8	10	3 3/8	45°	1 / ₈	1 1/2	4 1/4	2 1/2	1 1/4														6.25
25	36		1 1/8	5/8	3/4	12	4	45°	1	1 3/4	5	3	1 1/2														9.0
2M	36		1 1/8	5/8	3/4	12	4	45°	1	1 3/4	5	3	1 1/2														9.0
3	36		1 1/8	5/8	3/4	12	4	45°	1	1 3/4	5	3	1 1/2														9.0
4	48		2 1/4	3/4	1	16	5 3/8	45°	1 1/4	2 3/8	6 3/4	4	2														16.0
5	48		2 1/4	3/4	1	16	5	45°	1 1/4	2 3/8	6 3/4	4	2														16.0
	JECT	NO:		• •		l	<u> </u>						1			<u> </u>											_

STANDARD SIGN W4-2

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

Matthew R R

For State Traffic Engineer

DATE 3/12/13

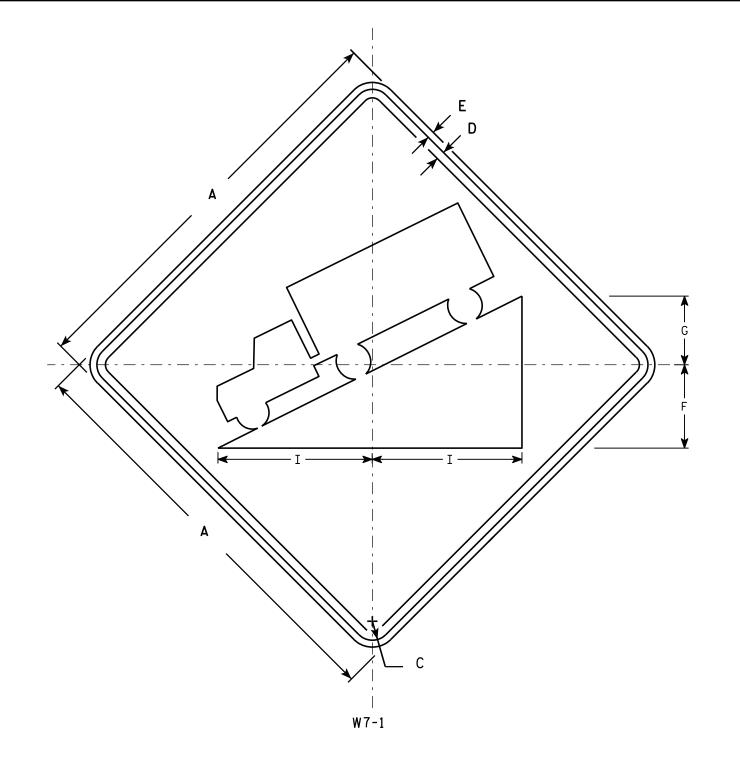
SHEET NO:

FILE NAME : C:\CAEFiles\Projects\tr_stdplate\W42.DGN

PLOT DATE: 12-MAR-2013 11:09

PLOT BY: mscsja

PLATE NO. <u>W4-2.14</u>



<u>NOTES</u>

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

Background - 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.

SIZE	Α	В	С	D	E	F	G	Н	I	J	K	L	M	N	0	Р	0	R	S	Т	U	٧	W	X	Y	Z	Areg sq. ft.
1	24		1 1/8	3/8	3/8	5	4		8 3/4																		4.0
2S	30		1 3/8	1/2	5/8	6	5		11																		6.25
2M	36		1 5/8	5/8	3/4	7 1/4	6		13 1/4																		9.0
3	36		1 1/8	5/8	₹4	7 1/4	6		13 1/4																		9.0
4	36		1 1/8	5/8	3/4	7 1/4	6		13 1/4																		9.0
5	48		2 1/4	₹4	1	9 3/4	8		17 1/2																		16.0

COUNTY:

STANDARD SIGN W7-1

WISCONSIN DEPT OF TRANSPORTATION

APPROVED // Fo.

DATE 03/12/13 PLATE NO. W7-1.13

SHEET NO:

FILE NAME : C:\CAEFiles\Projects\tr_stdplate\W71.DCN

HWY:

PROJECT NO:

PLOT DATE: 12-MAR-2013 14:38

PLOT BY: mscsja

PLOT NAME :

PLOT SCALE : 6.946657:1.000000

1.000000 WISDOT (CADDS S

Station	Cut Area (Sq.ft.)	Cut Volume (Cu.yd.)	Reusable Volume (Cu.yd.)	Fill Area (Sq.ft.)	Fill Volume (Cu.yd.)	Cum. Cut Vol. (Cu.yd.)	Cum. Reusable Vol. (Cu.yd.)	Cum. Fill Vol. (Cu.yd.)
WEST TRA	ANSITION							
50+57	37.74	0	0	0	0	0	0	0
51+00	31.92	55.92	0	0.03	0.02	55.92	0.00	0.02
51+50	29.08	56.48	0	0.17	0.19	112.40	0.00	0.21
51+57	28.18	7.04	0	0.23	0.05	119.44	0.00	0.26
PULVERIZ	E AND RELAY	/ - WEST OF	25TH ST					
51+57	28.18	0.00	0	0	0.00	0.00	0.00	0.00
52+00	29.75	0.00	0	0.2	0.16	0.00	0.00	0.16
52+50	30.11	0.00	0	0.11	0.29	0.00	0.00	0.45
53+00	27.44	0.00	0	0.35	0.43	0.00	0.00	0.87
53+50	22.03	0.00	0	0.61	0.89	0.00	0.00	1.76
54+00	17.12	0.00	0	0.96	1.45	0.00	0.00	3.22
54+50	12.18	0.00	0	2.76	3.44	0.00	0.00	6.66
55+00	13.49	0.00	0	5.8	7.93	0.00	0.00	14.59
55+50	15.04	0.00	0	6.07	10.99	0.00	0.00	25.58
56+00	19.16	0.00	0	2.59	8.02	0.00	0.00	33.60
56+50	24.42	0.00	0	0.93	3.26	0.00	0.00	36.86
57+00	29.11	0.00	0	1.06	1.84	0.00	0.00	38.70
57+50	28.71	0.00	0	0.94	1.85	0.00	0.00	40.55
58+00	24.48	0.00	0	1.9	2.63	0.00	0.00	43.18
58+50	23.23	0.00	0	3.62	5.11	0.00	0.00	48.29
59+00	23.17	0.00	0	3.09	6.21	0.00	0.00	54.50
59+50	21.53	0.00	0	5.15	7.63	0.00	0.00	62.13
60+00	21.71	0.00	0	3.89	8.37	0.00	0.00	70.50
60+50	23.92	0.00	0	3.21	6.57	0.00	0.00	77.08
61+00	24.8	0.00	0	3.38	6.10	0.00	0.00	83.18
61+50	20.75	0.00	0	10.02	12.41	0.00	0.00	95.59
62+00	25.32	0.00	0	0.46	9.70	0.00	0.00	105.29
62+50	23.51	0.00	0	2.36	2.61	0.00	0.00	107.90
63+00	23.03	0.00	0	2.05	4.08	0.00	0.00	111.98
63+50	24.74	0.00	0		6.17	0.00	0.00	118.15
64+00	22.37	0.00	0	12.59	15.93	0.00		134.08
64+50	22.56	0.00	0	2.4	13.88	0.00	0.00	147.96
65+00	22.9	0.00	0	2.45	4.49	0.00	0.00	152.45
65+50	24.89	0.00	0	1.76		0.00	0.00	156.35
66+00	24.81	0.00	0	2.45	3.90	0.00	0.00	160.24
66+50	29.59	0.00	0	1.87	4.00	0.00	0.00	164.24
67+00	28.48	0.00	0	0.38	2.08	0.00	0.00	166.33
67+50	26.96	0.00	0	2.06		0.00	0.00	168.59
68+00	26.63	0.00	0	5.39		0.00	0.00	175.48
68+50	23.02	0.00	0	3.81	8.52	0.00	0.00	184.00
69+00	29.26	0.00	0	11.41	14.09	0.00	0.00	198.10
69+50	28.2	0.00	0	38.06		0.00	0.00	243.90
70+00	26.12	0.00	0	19.05	52.88	0.00	0.00	296.78

Station	Cut Area (Sq.ft.)	Cut Volume (Cu.yd.)	Reusable Volume (Cu.yd.)	Fill Area (Sq.ft.)	Fill Volume (Cu.yd.)	Cum. Cut Vol. (Cu.yd.)	Cum. Reusable Vol. (Cu.yd.)	Cum. Fill Vol. (Cu.yd.)
70+50	24.59	0.00	0	12.11	28.85	0.00	0.00	325.63
71+00	24.45	0.00	0	8.14	18.75	0.00	0.00	344.38
71+50	28.43	0.00	0	5.34	12.48	0.00	0.00	356.86
72+00	23.05	0.00	0	12.88	16.87	0.00	0.00	373.73
72+50	26.96	0.00	0	6.7	18.13	0.00	0.00	391.86
73+00	29.11	0.00	0	3.42	9.37	0.00	0.00	401.23
73+50	28.11	0.00	0	1.52	4.57	0.00	0.00	405.81
74+00	29.38	0.00	0	0.79	2.14	0.00	0.00	407.95
74+50	24.07	0.00	0	0.46	1.16	0.00	0.00	409.11
75+00	19.5	0.00	0	2.57	2.81	0.00	0.00	411.91
75+50	24.87	0.00	0	2.01	4.24	0.00	0.00	416.15
76+00	25.58	0.00	0	4.72	6.23	0.00	0.00	422.38
76+50	27.02	0.00	0	7.14	10.98	0.00	0.00	433.36
77+00	33.23	0.00	0	4.65	10.92	0.00	0.00	444.28
77+50	35.59	0.00	0	3.54	7.58	0.00	0.00	451.86
78+00	29.59	0.00	0	5.7	8.56	0.00	0.00	460.42
78+50	26.16	0.00	0	10.05	14.58	0.00	0.00	475.00
79+00	23.3	0.00	0	26.94	34.25	0.00	0.00	509.25
79+50	20.81	0.00	0	13.94	37.85	0.00	0.00	547.11
80+00	22.78	0.00	0	18.77	30.29	0.00	0.00	577.39
80+50	24.91	0.00	0	0	17.38	0.00	0.00	594.77
		' - EAST OF 2	- U	Ü	17.30	0.00	0.00	33 1.7 7
80+50	28.59	0.00	0	0	0.00	0.00	0.00	0.00
81+00	28.59	0.00	0	11.14	10.31	0.00	0.00	10.31
81+50	27.74	0.00	0	1.96	12.13	0.00	0.00	22.44
82+00	26.97	0.00	0	5.92	7.30	0.00	0.00	29.74
82+50	25.34	0.00	0	3.98	9.17	0.00	0.00	38.91
83+00	23.83	0.00	0	7.86	10.96	0.00	0.00	49.87
83+50	21.66	0.00	0	14.01	20.25	0.00	0.00	70.12
84+00	25.88	0.00	0	13.66	25.62	0.00	0.00	95.74
84+50	32.6	0.00	0	13.39	25.05	0.00	0.00	120.79
85+00	32.05	0.00	0	3.92	16.03		0.00	
85+50	30.84	0.00	0	3.97	7.31	0.00	0.00	144.12
86+00	28.43	0.00	0	3.33	6.76		0.00	150.88
86+50	23.56	0.00	0	4.82	7.55	0.00	0.00	158.43
87+00	20.04	0.00	0	5.06	9.15	0.00	0.00	
87+50	16.67	0.00	0	4.73	9.06	0.00	0.00	176.64
88+00	16.01	0.00	0	4.73	8.52	0.00	0.00	185.16
88+50	23.22	0.00	0	4.47	8.68	0.00	0.00	193.83
89+00	24.64	0.00	0	4.9	10.09	0.00	0.00	203.93
89+50	25.17	0.00	0	4.14	9.39		0.00	213.31
90+00	21.73	0.00	0	13.17	16.03	0.00	0.00	229.34
90+50	26.93	0.00	0	11.7	23.03	0.00	0.00	252.37
91+00	25.95	0.00	0	16.43	26.05		0.00	

9

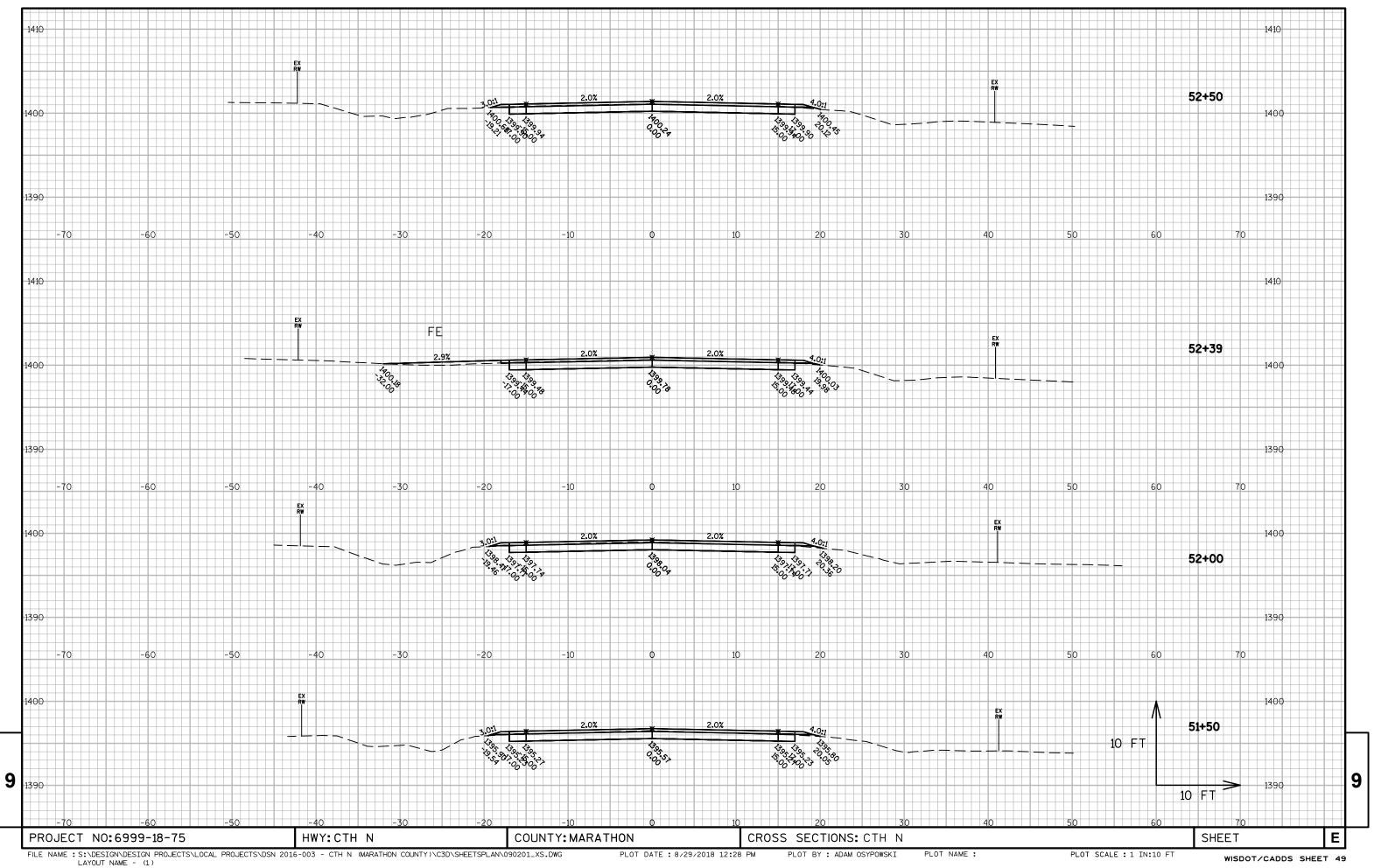
PROJECT NO: 6999-18-75 HWY: CTH N COUNTY: MARATHON EARTHWORK DATA SHEET: **E**

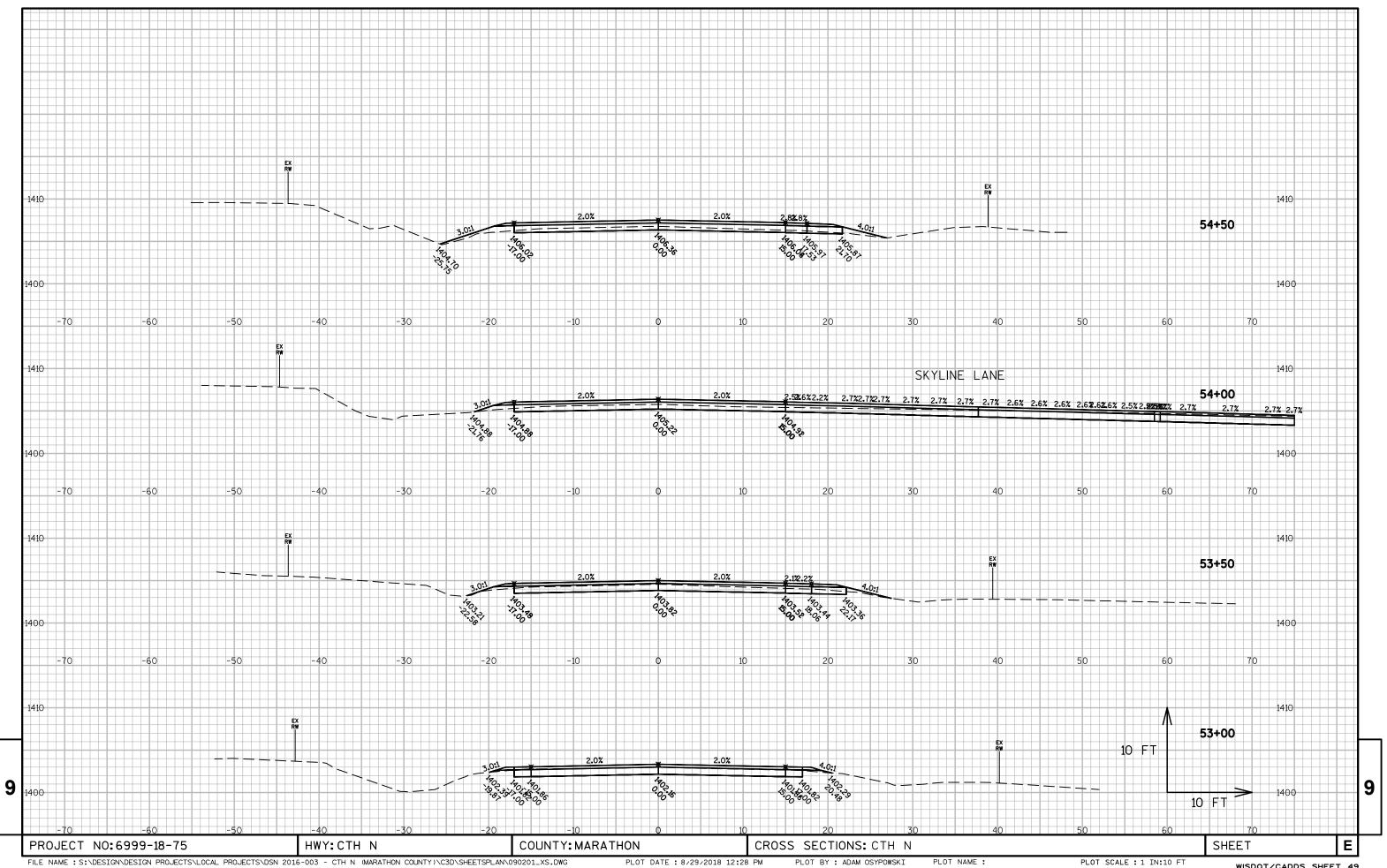
Station	Cut Area (Sq.ft.)	Cut Volume (Cu.yd.)	Reusable Volume (Cu.yd.)	Fill Area (Sq.ft.)	Fill Volume (Cu.yd.)	Cum. Cut Vol. (Cu.yd.)	Cum. Reusable Vol. (Cu.yd.)	Cum. Fill Vol. (Cu.yd.)
91+50	22.85	0.00	0	8.49	23.07	0.00	0.00	301.49
92+00	18.69	0.00	0	8.17	15.43	0.00	0.00	316.92
92+50	20.3	0.00	0	7.68	14.68	0.00	0.00	331.59
93+00	22.19	0.00	0	5.78	12.46	0.00	0.00	344.06
93+50	21.45	0.00	0	4.5	9.52	0.00	0.00	353.57
94+00	25.52	0.00	0	22.29	24.81	0.00	0.00	378.38
94+50	27.01	0.00	0	47.64	64.75	0.00	0.00	443.13
95+00	30.09	0.00	0	24.15	66.47	0.00	0.00	509.60
95+50	28.41	0.00	0	14.4	35.69	0.00	0.00	545.30
96+00	27.38	0.00	0	17.12	29.19	0.00	0.00	574.48
96+50	29.03	0.00	0	11.98	26.94	0.00	0.00	601.43
97+00	30.83	0.00	0	1.27	12.27	0.00	0.00	613.69
97+50	33.15	0.00	0	7.61	8.22	0.00	0.00	621.92
98+00	31.95	0.00	0	9.8	16.12	0.00	0.00	638.04
98+50	27.92	0.00	0	6.87	15.44	0.00	0.00	653.47
99+00	22.85	0.00	0	6.89	12.74	0.00	0.00	666.21
99+50	22.45	0.00	0	5.14	11.14	0.00	0.00	677.35
100+00	20.94	0.00	0	10.98	14.93	0.00	0.00	692.28
100+50	23.05	0.00	0	5.18	14.96	0.00	0.00	707.24
101+00	28.5	0.00	0	2.94	7.52	0.00	0.00	714.76
101+50	33.33	0.00	0	0.18	2.89	0.00	0.00	717.65
102+00	32.72	0.00	0	1.01	1.10	0.00	0.00	718.75
102+50	36.56	0.00	0	0.02	0.95	0.00	0.00	719.70
103+00	36.69	0.00	0	0.31	0.31	0.00	0.00	720.01
103+50	35.61	0.00	0	0.14	0.42	0.00	0.00	720.43
104+00	34.35	0.00	0	1.14	1.19	0.00	0.00	721.61
104+50	29.22	0.00	0	4.07	4.82	0.00	0.00	726.44
105+00	26.94	0.00	0	2.49	6.07	0.00	0.00	732.51
105+50	27.43	0.00	0	1.38	3.58	0.00	0.00	736.09
106+00	27.21	0.00	0	2.94	4.00	0.00	0.00	740.09
106+50	25.67	0.00	0	3.31	5.79	0.00	0.00	745.88
107+00	22.92	0.00	0	3.39	6.20	0.00	0.00	752.08
107+50	19.73	0.00	0	3.47	6.35	0.00	0.00	758.44
108+00	20.96	0.00	0	5.45	8.26	0.00	0.00	766.69
108+50	26.08	0.00	0	2.66	7.51	0.00	0.00	774.20
109+00	25.31	0.00	0	6.07	8.08	0.00	0.00	782.29
109+50	24.25	0.00	0	4.42	9.71	0.00	0.00	792.00
110+00	26.04	0.00	0	7.49	11.03	0.00	0.00	803.03
110+50	27.94	0.00	0	2.34	9.10	0.00	0.00	812.13
111+00	29.61	0.00	0	6.02	7.74	0.00	0.00	819.87
111+50	30.99	0.00	0	6.88	11.94	0.00	0.00	831.81
112+00	32.52	0.00	0	10.44	16.04	0.00	0.00	847.85
112+50	32.51	0.00	0	18.92	27.19	0.00	0.00	875.04
113+00	30.26	0.00	0	26.96	42.48	0.00	0.00	917.52

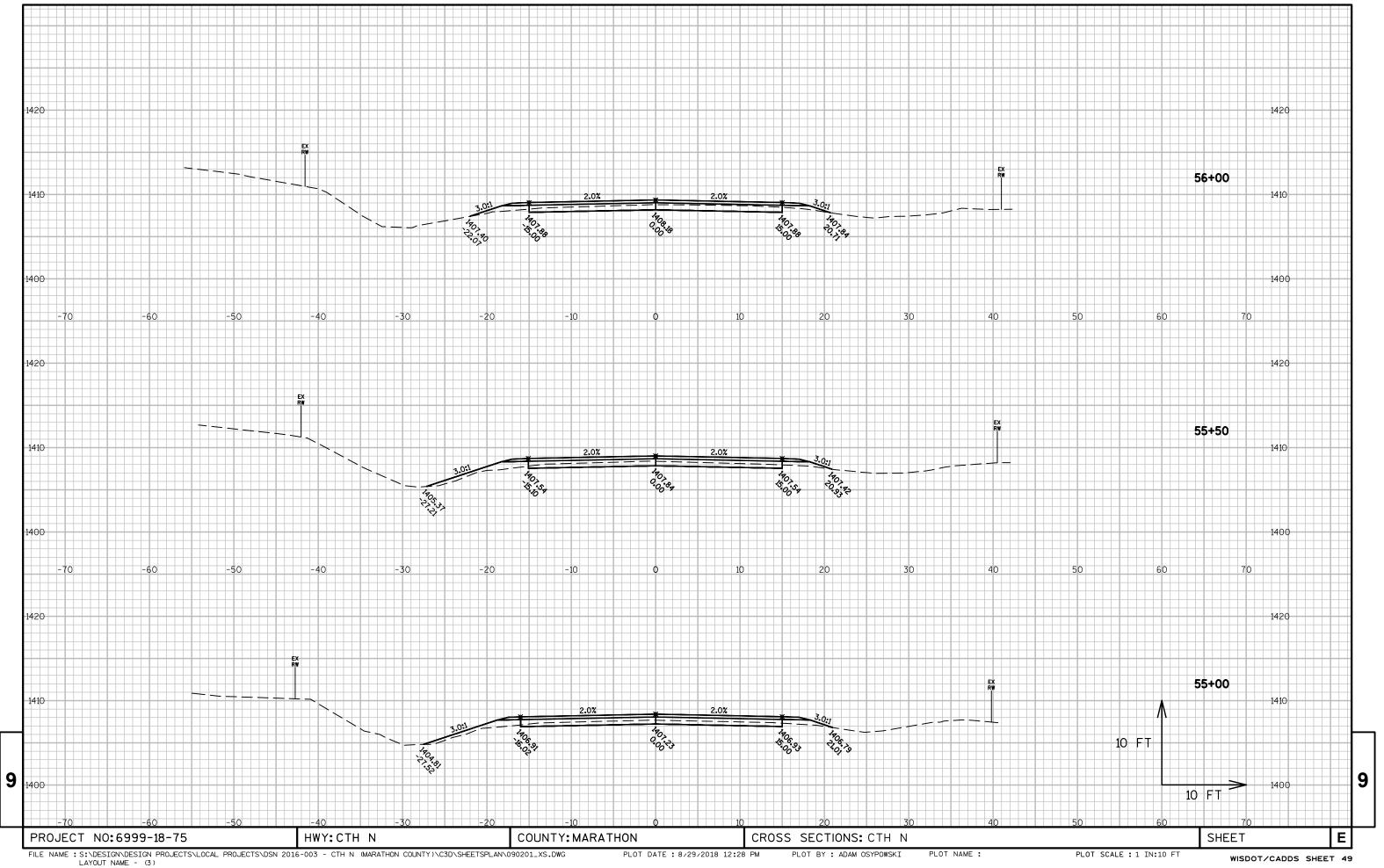
<u>Station</u>	Cut Area (Sq.ft.)	Cut Volume (Cu.yd.)	Reusable Volume (Cu.yd.)	Fill Area (Sq.ft.)	Fill Volume (Cu.yd.)	Cum. Cut Vol. (Cu.yd.)	Cum. Reusable Vol. (Cu.yd.)	Cum. Fill Vol. (Cu.yd.)
113+50	24.78	0.00	0	36.37	58.64	0.00	0.00	976.16
114+00	21.61	0.00	0	31.63	62.96	0.00	0.00	1039.12
114+50	22.99	0.00	0	29.86	56.94	0.00	0.00	1096.06
115+00	26.08	0.00	0	18.12	44.43	0.00	0.00	1140.48
115+50	29.29	0.00	0	10.63	26.62	0.00	0.00	1167.10
116+00	31.02	0.00	0	2.79	12.43	0.00	0.00	1179.53
116+50	30.8	0.00	0	3.38	5.71	0.00	0.00	1185.24
117+00	30.41	0.00	0	3.06	5.96	0.00	0.00	1191.20
117+50	28.73	0.00	0	2.86	5.48	0.00	0.00	1196.69
118+00	26.76	0.00	0	5.34	7.59	0.00	0.00	1204.28
118+50	25.09	0.00	0	5.61	10.14	0.00	0.00	1214.42
119+00	23.49	0.00	0	9.98	14.44	0.00	0.00	1228.85
119+50	24.33	0.00	0	8.28	16.91	0.00	0.00	1245.76
120+00	20.27	0.00	0	7.33	14.45	0.00	0.00	1260.21
120+50	19.03	0.00	0	5.4	11.79	0.00	0.00	1272.00
121+00	21.32	0.00	0	7.86	12.28	0.00	0.00	1284.28
121+50	27.06	0.00	0	5.16	12.06	0.00	0.00	1296.33
122+00	31.62	0.00	0	4.27	8.73	0.00	0.00	1305.06
122+50	27.84	0.00	0	0.78	4.68	0.00	0.00	1309.74
123+00	30.21	0.00	0	1.14	1.78	0.00	0.00	1311.52
123+50	30.72	0.00	0	5.39	6.05	0.00	0.00	1317.56
124+00	32.13	0.00	0	4.41	9.07	0.00	0.00	1326.64
124+30	32.79	0.00	0	4.65	5.03	0.00	0.00	1331.67
EAST TRA	NSITION							
124+30	32.79	0.00	0	0	0.00	0.00	0.00	0.00
124+50	34.63	24.97	0	4.5	1.67	24.97	0.00	1.67
125+00	51.46	79.71	0	3.11	7.05	104.68	0.00	8.71
125+30	56.14	59.78	0	2.15	2.92	164.46	0.00	11.64

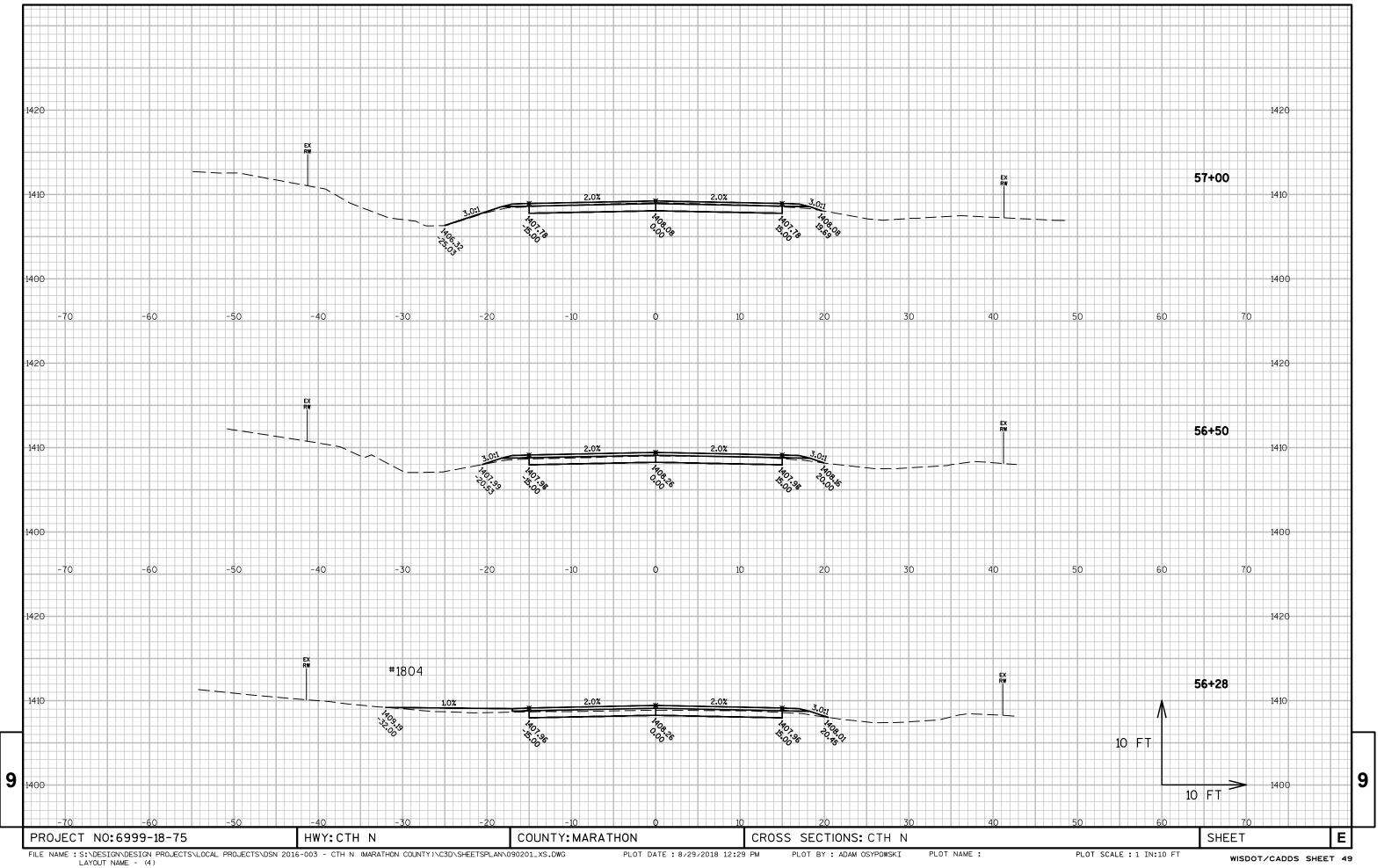
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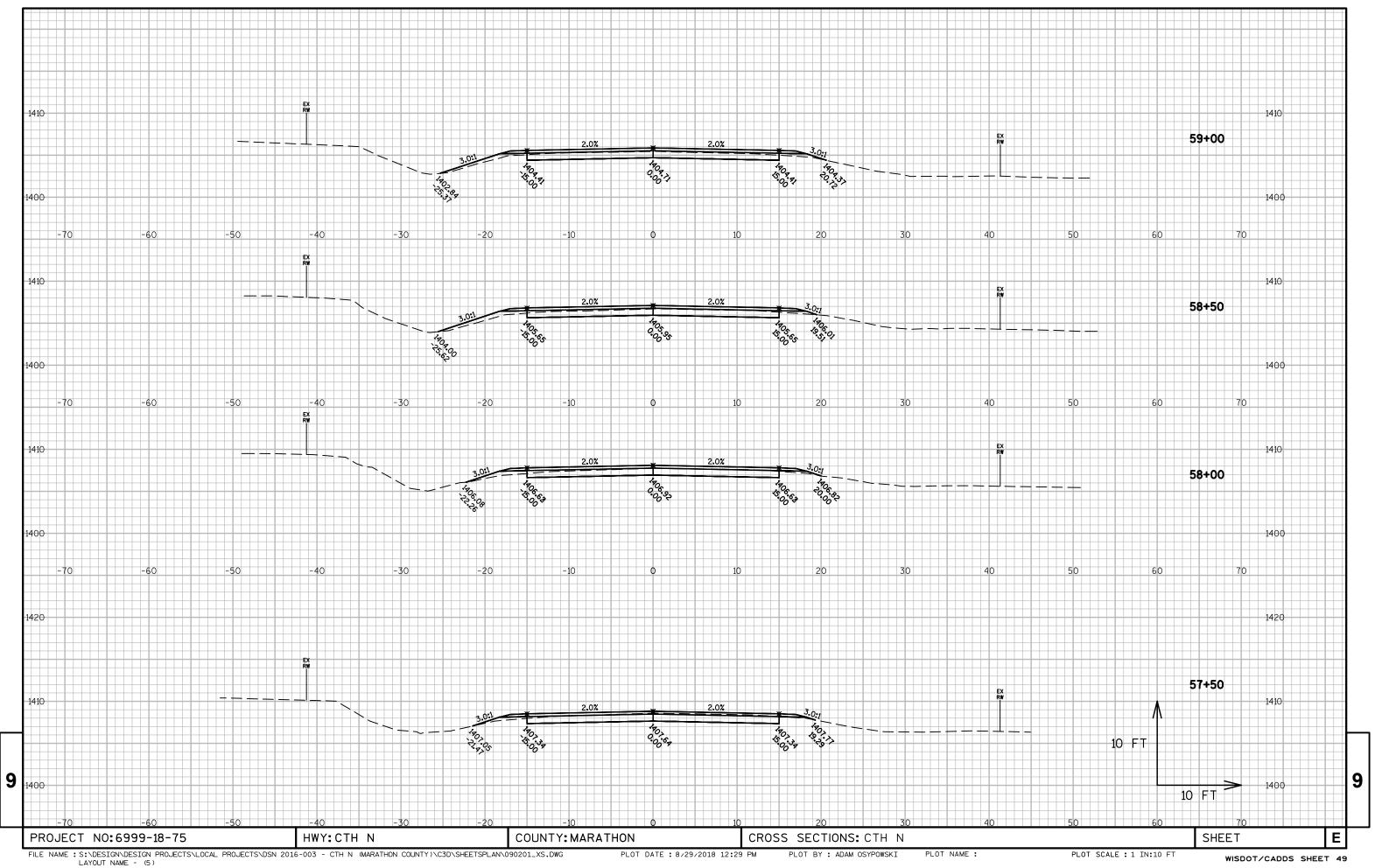
PROJECT NO: 6999-18-75 HWY: CTH N COUNTY: MARATHON EARTHWORK DATA SHEET: **E**

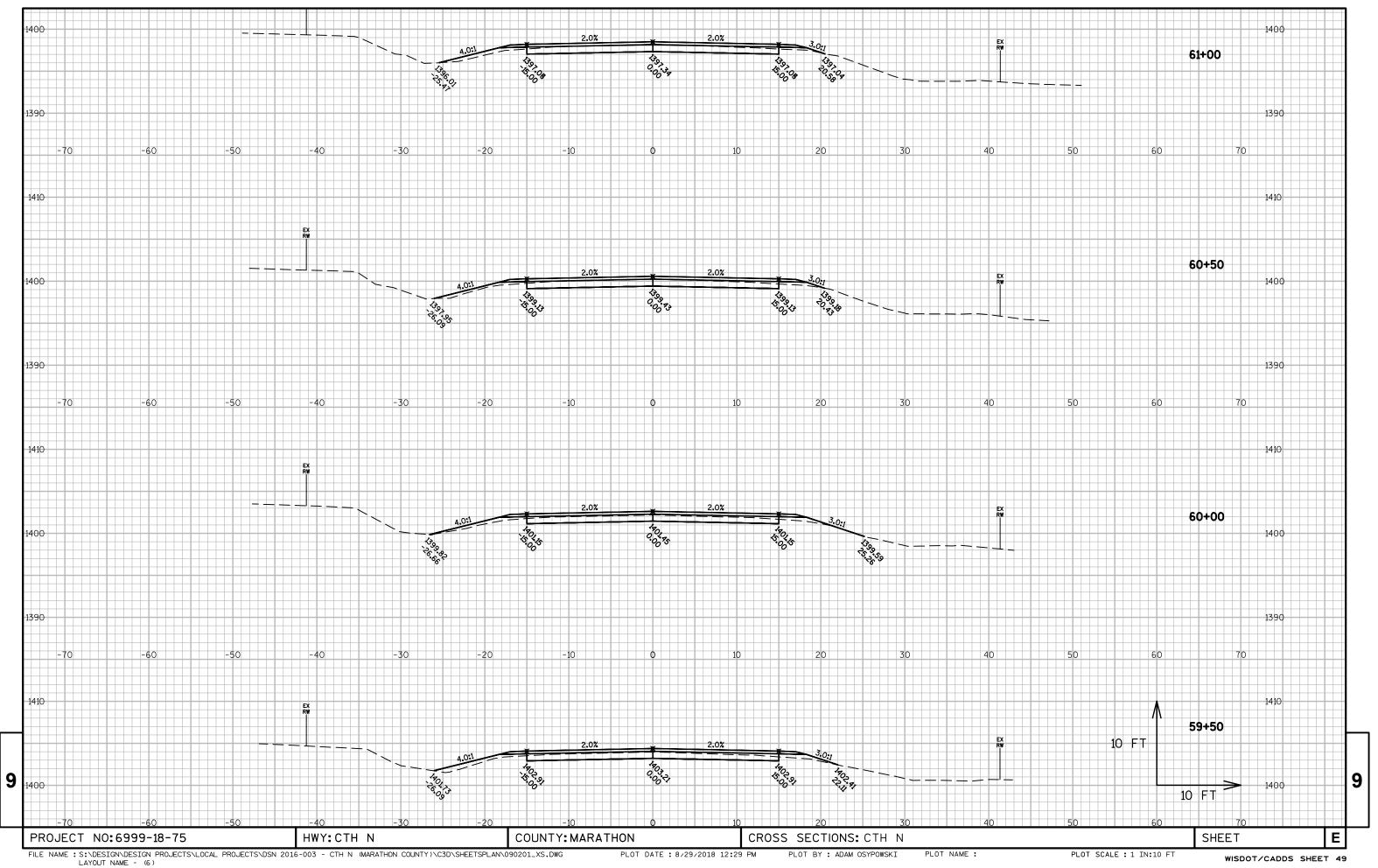


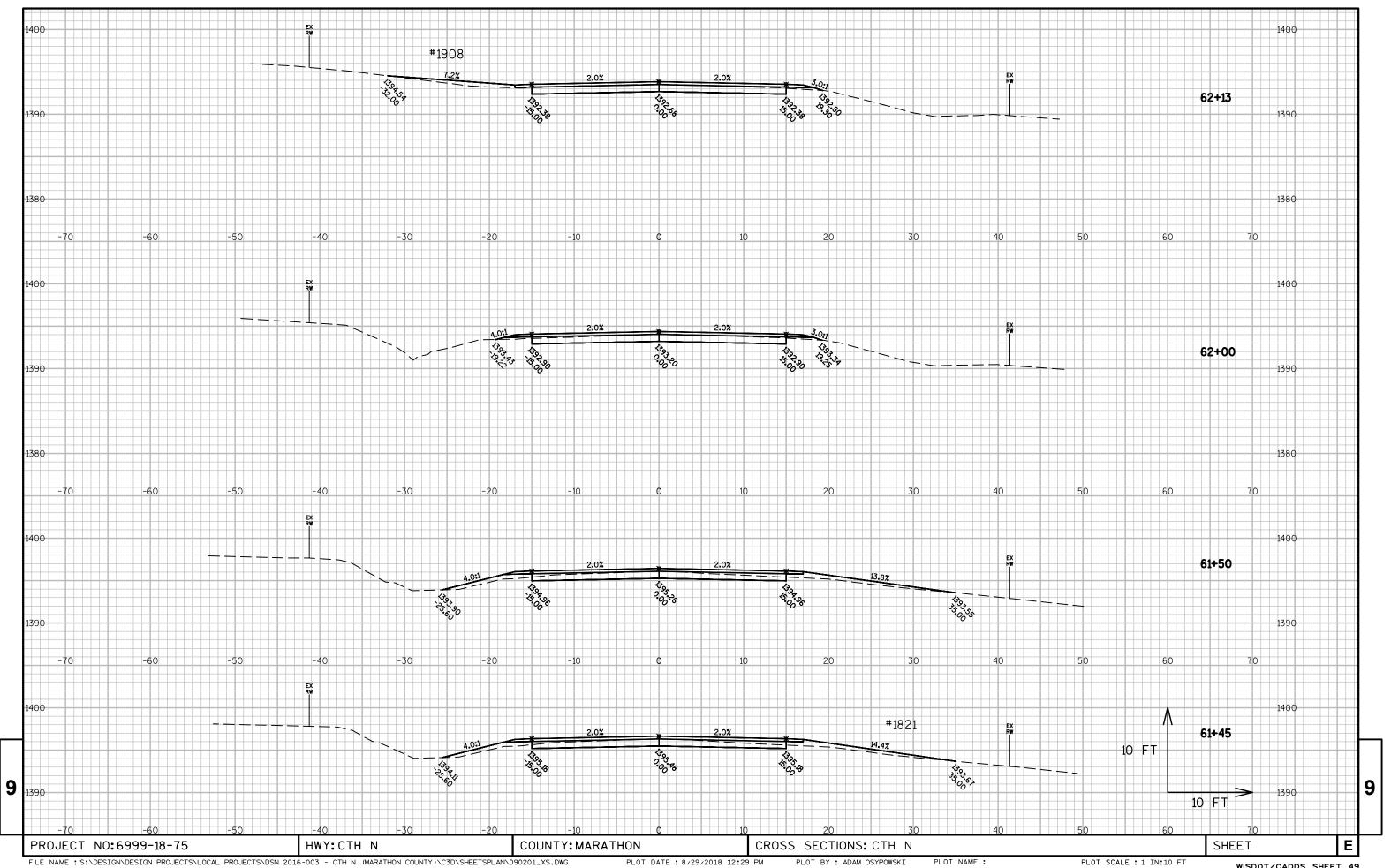


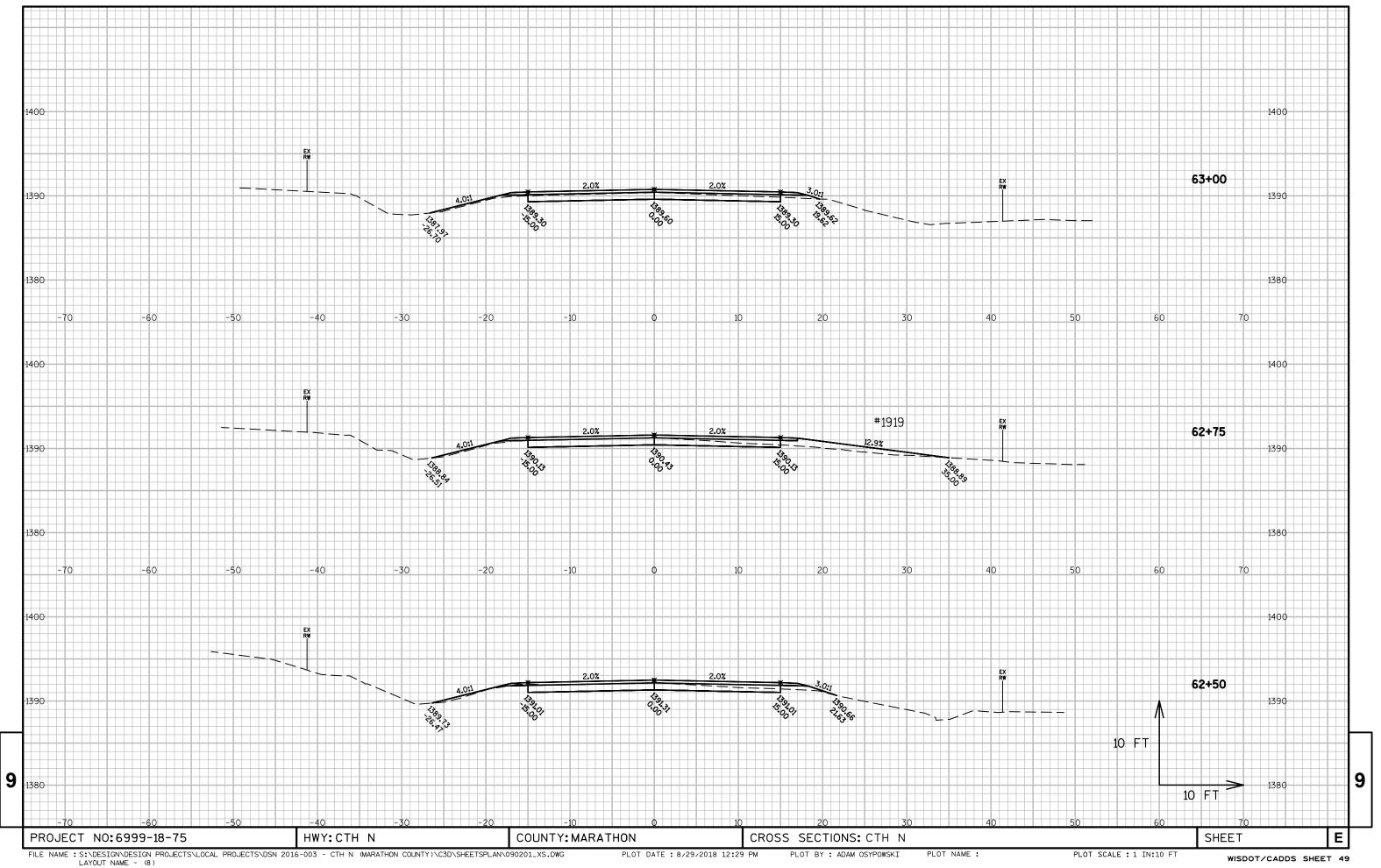


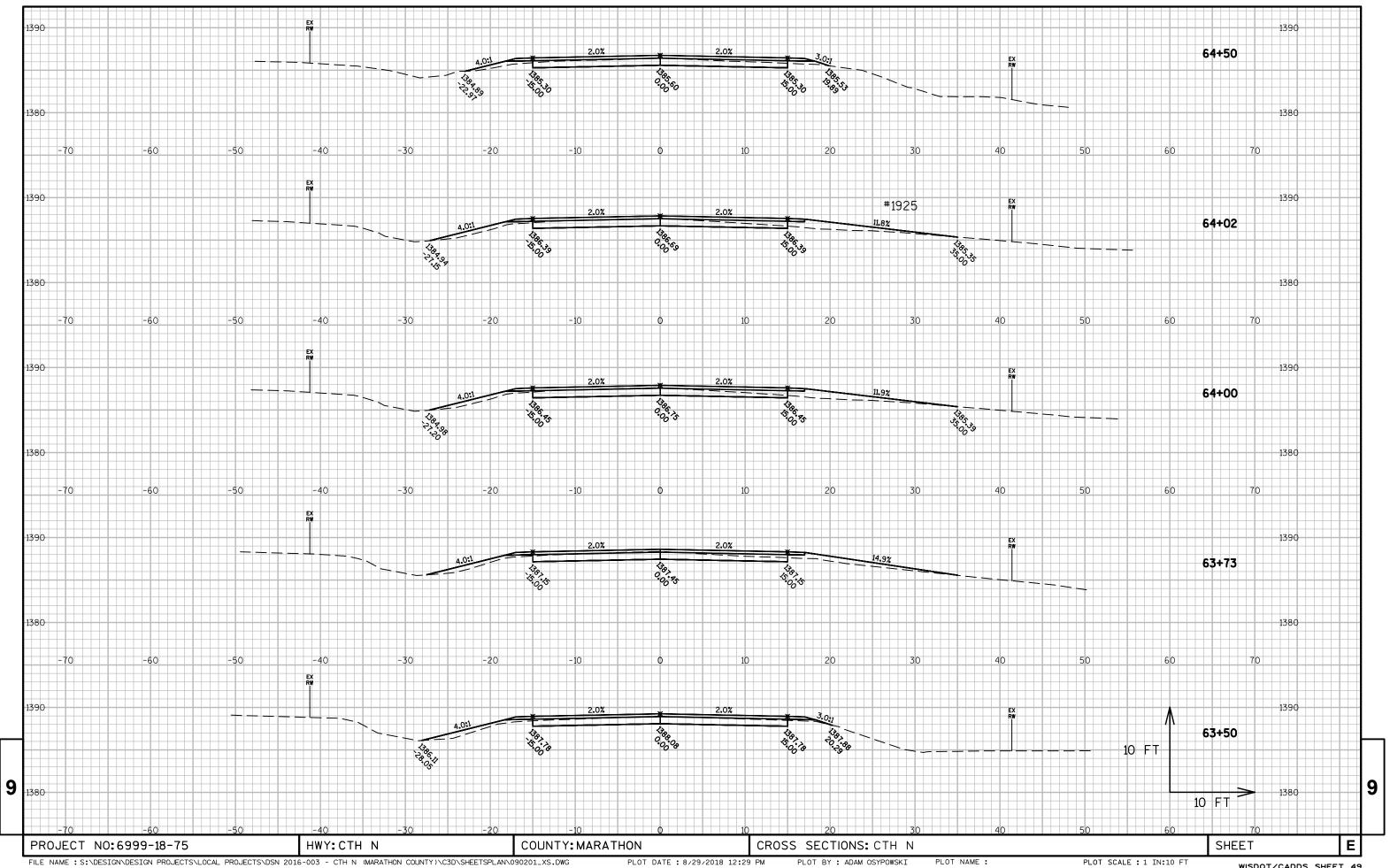


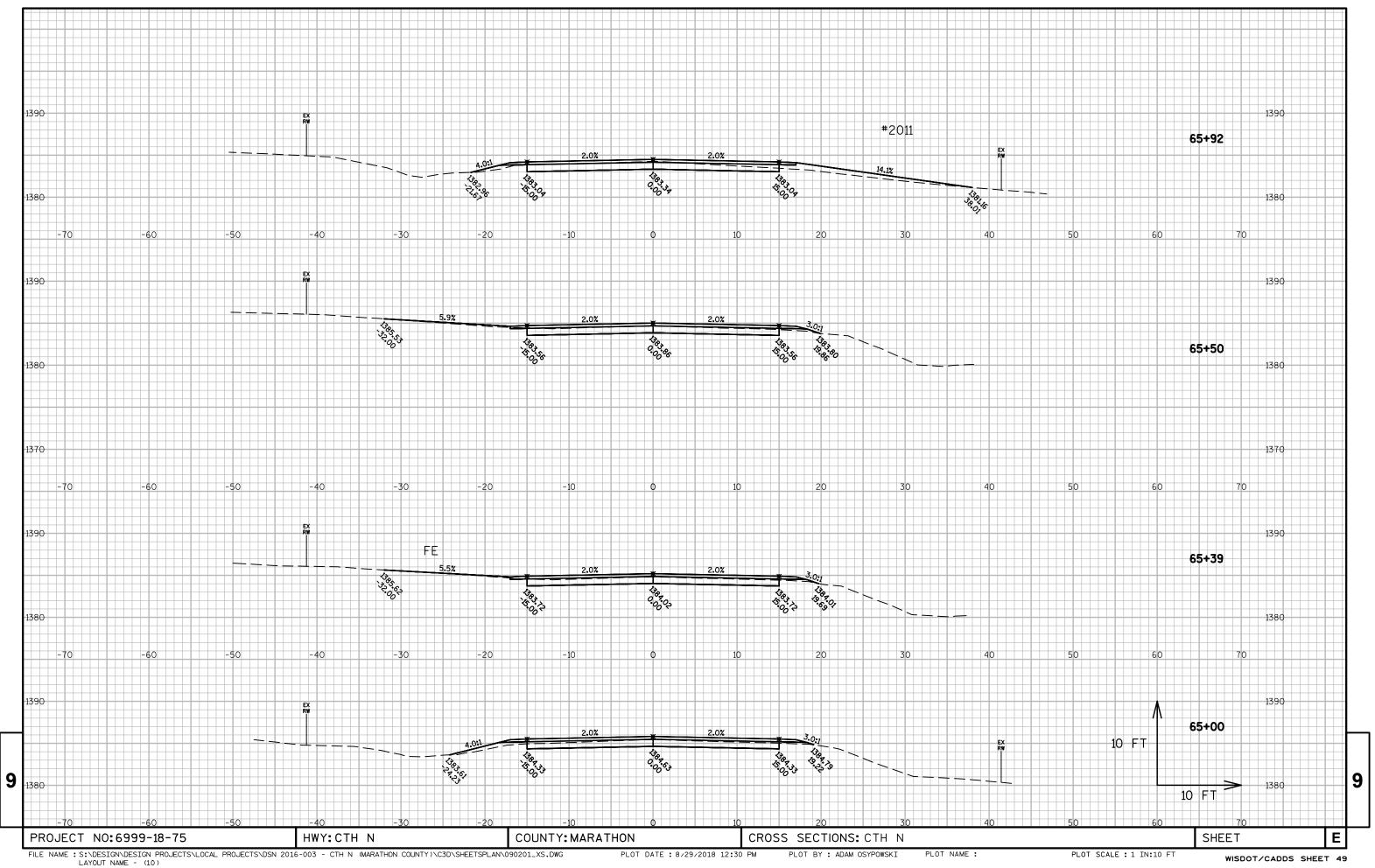


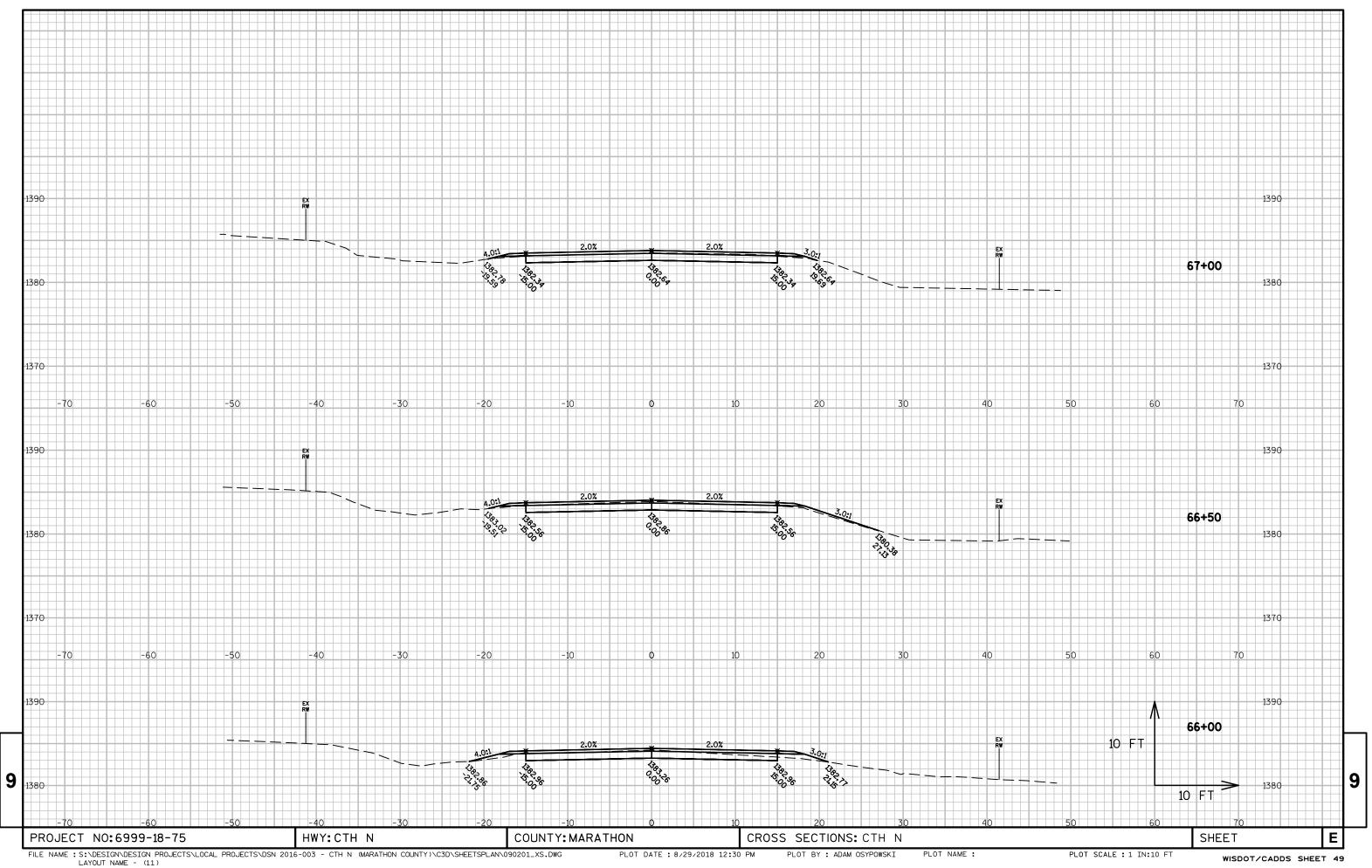


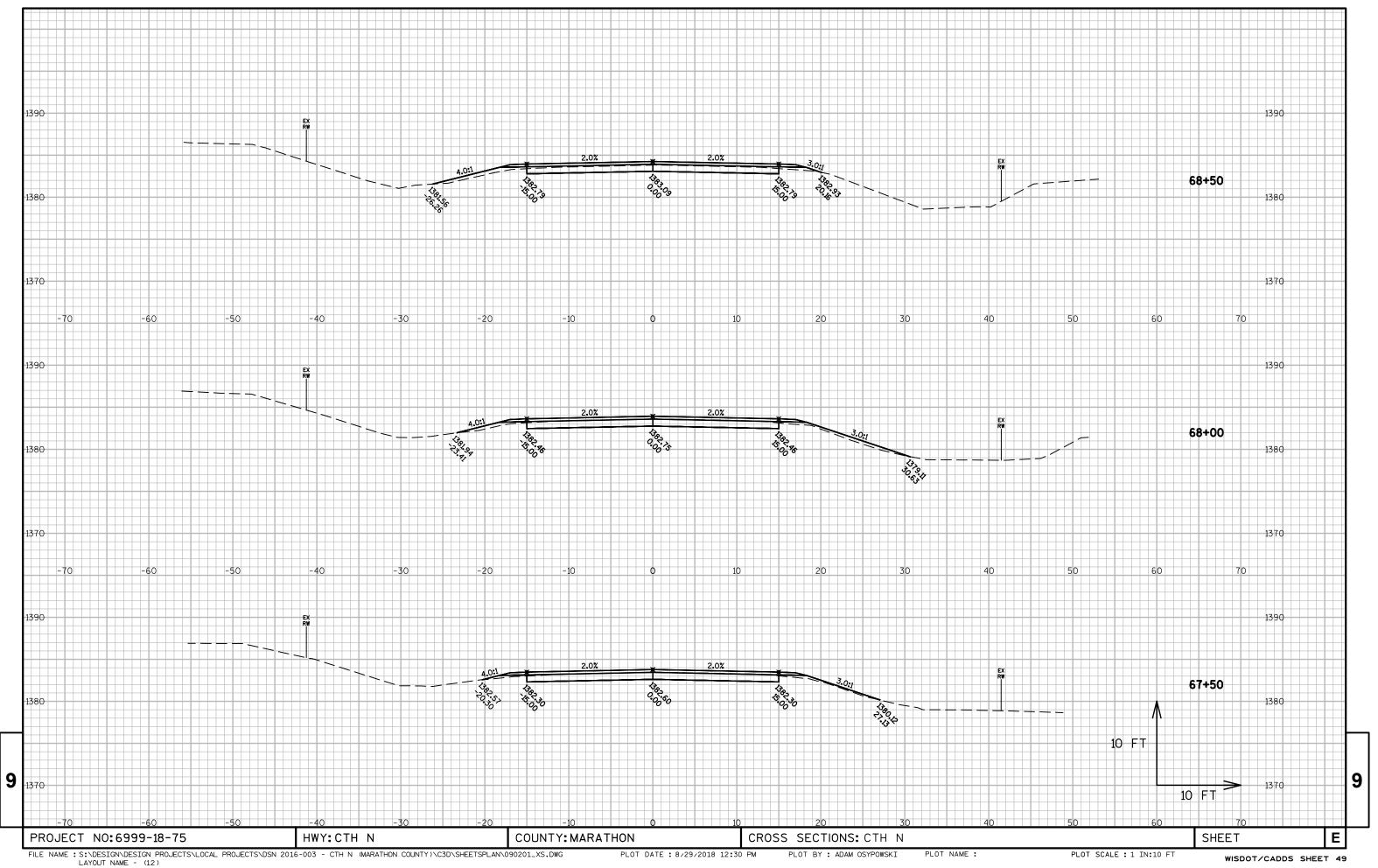


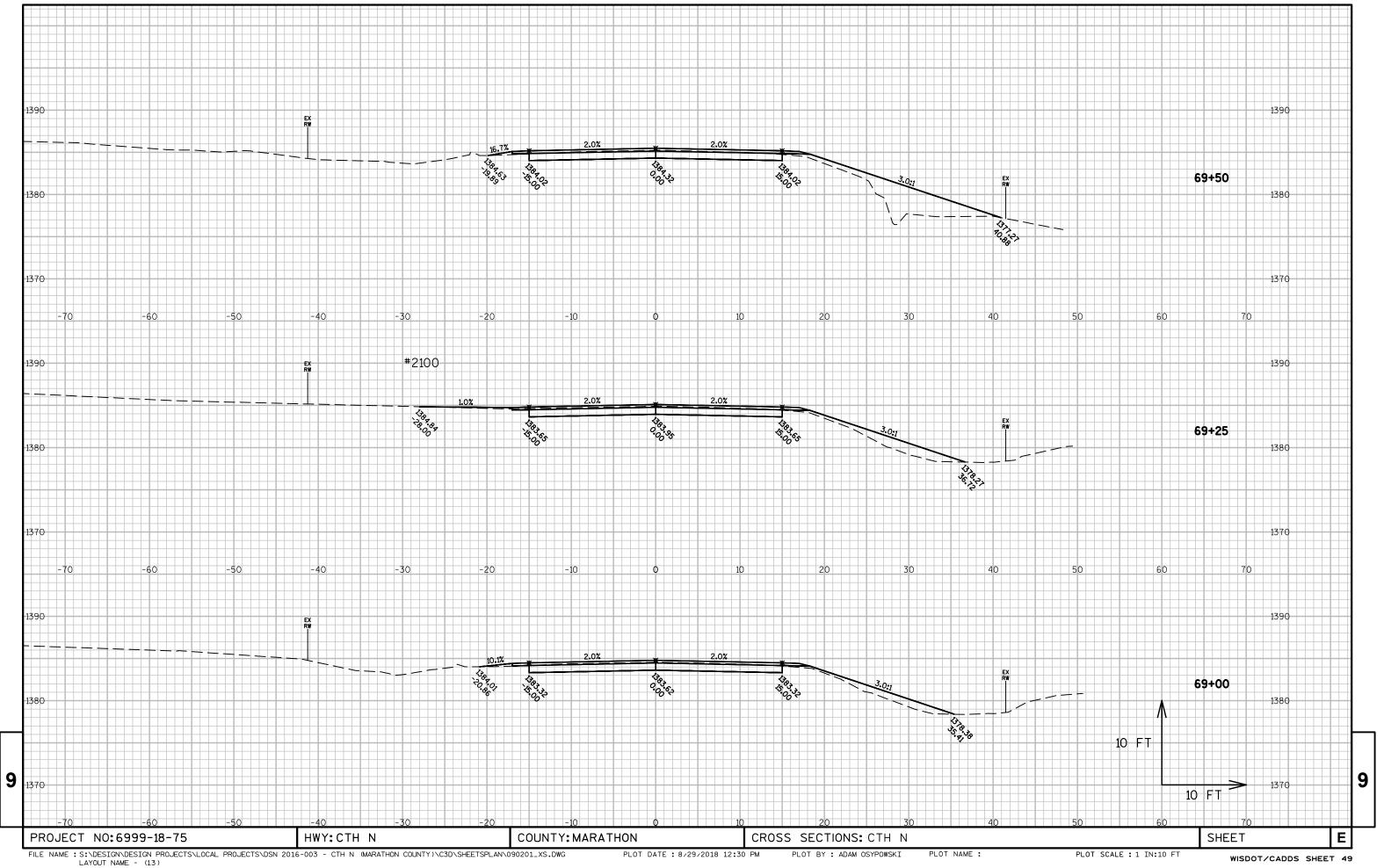


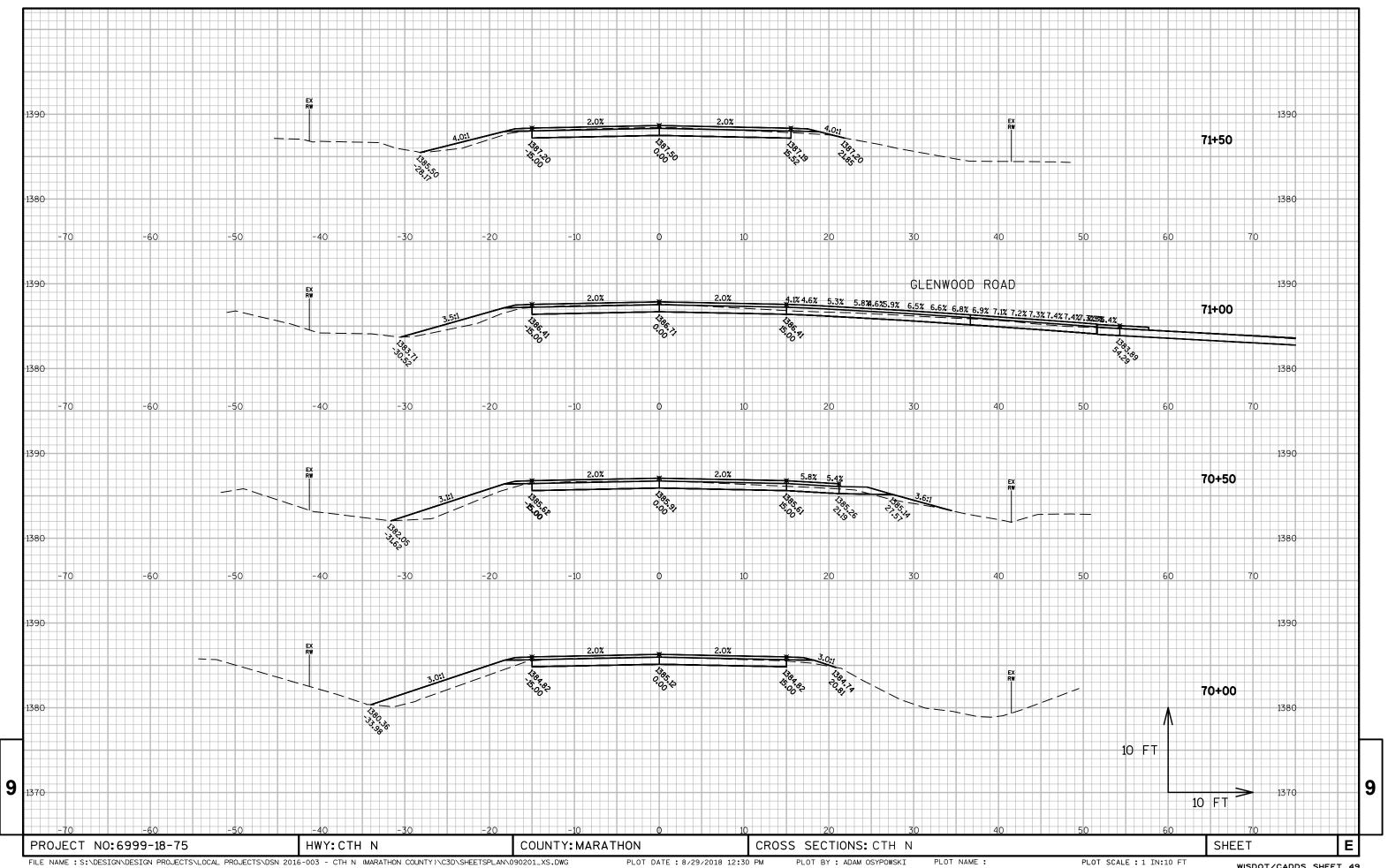


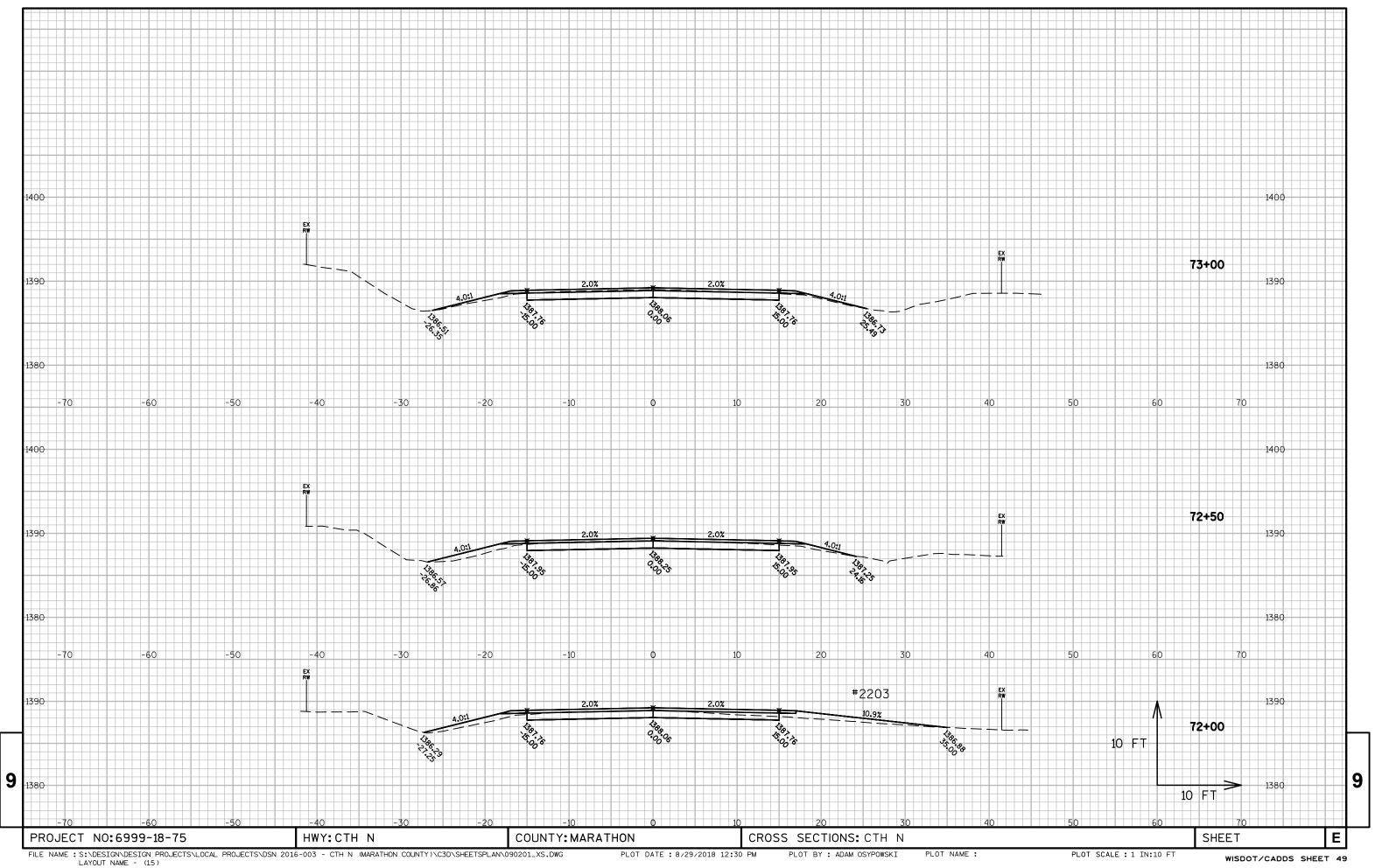


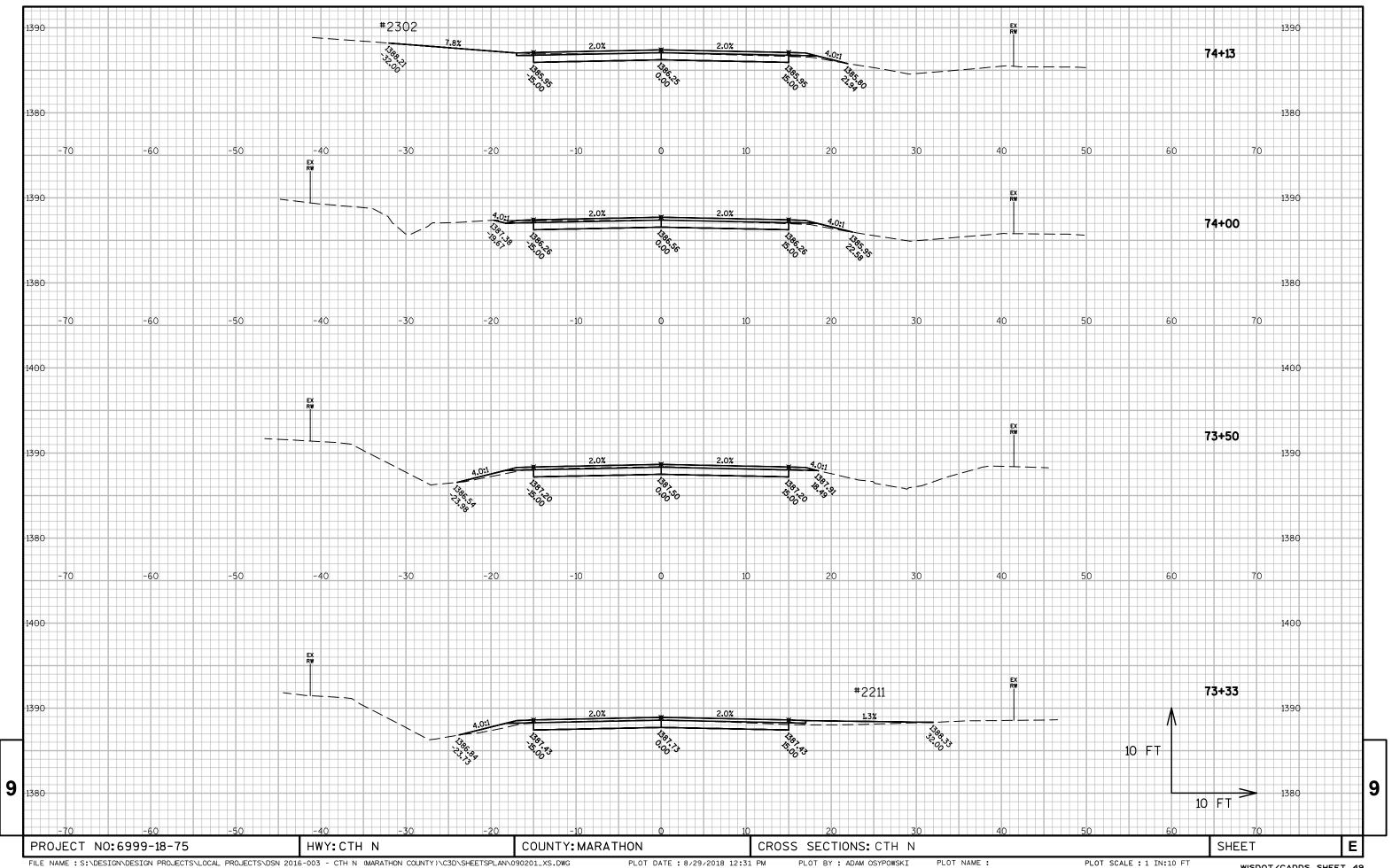


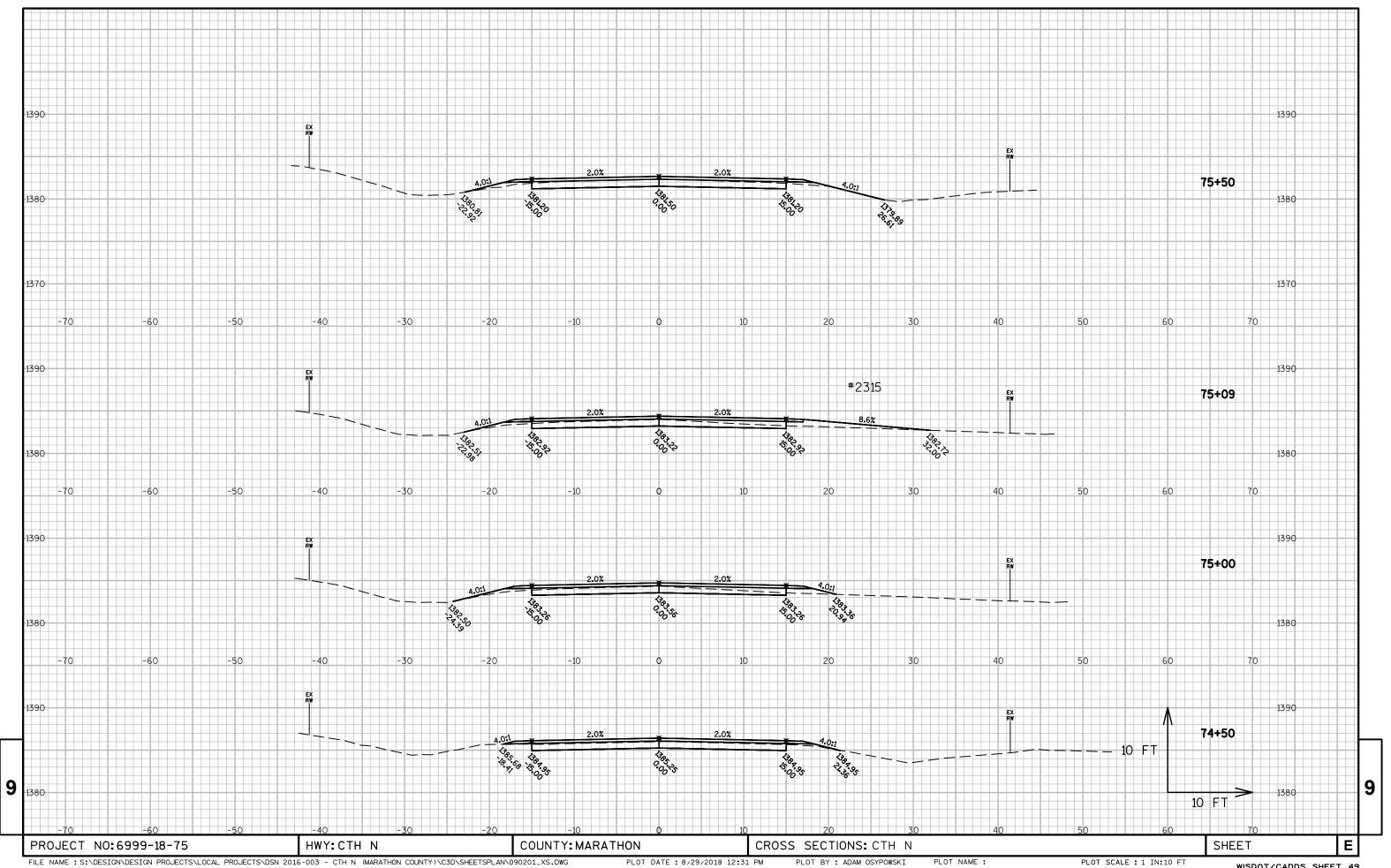


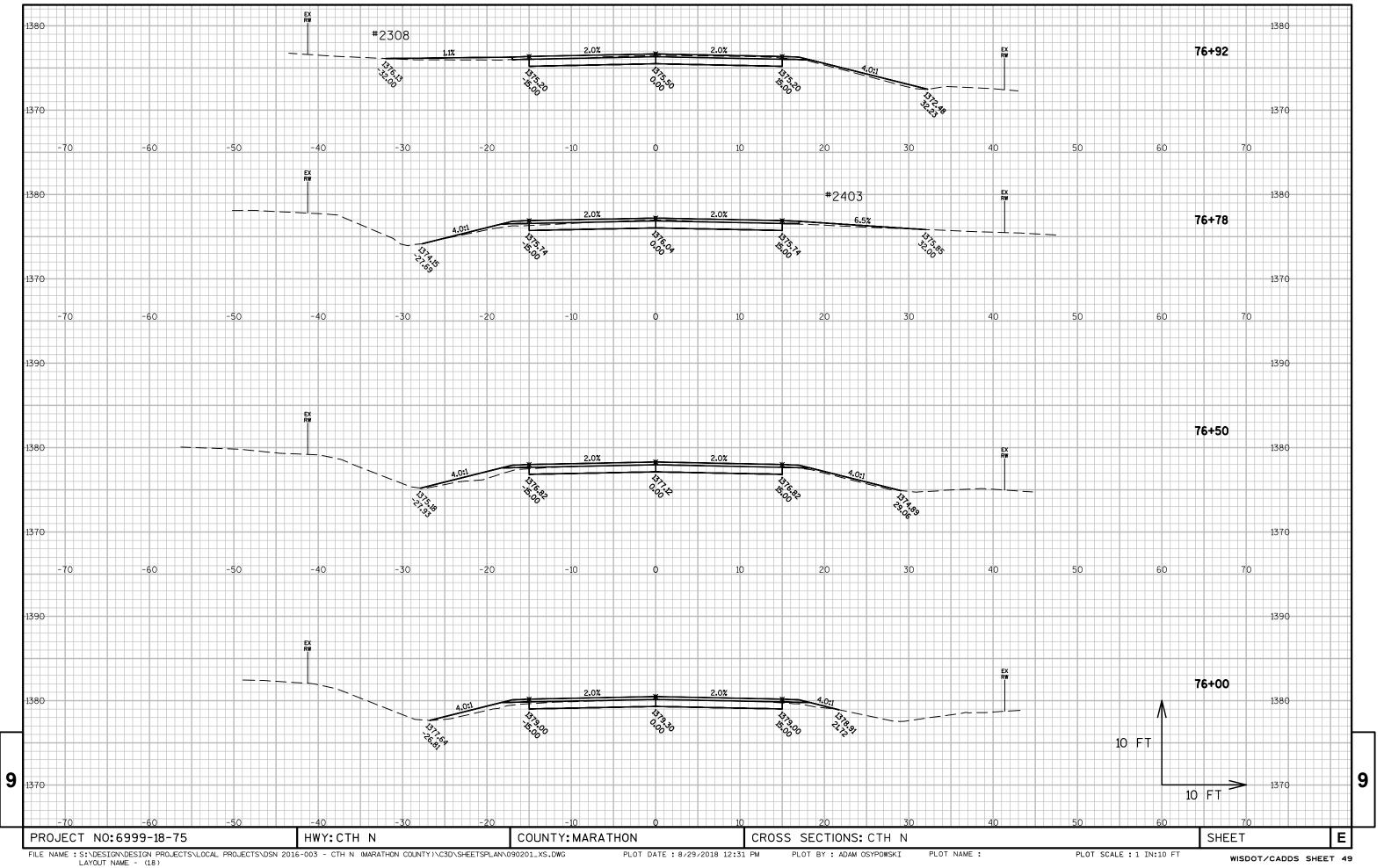


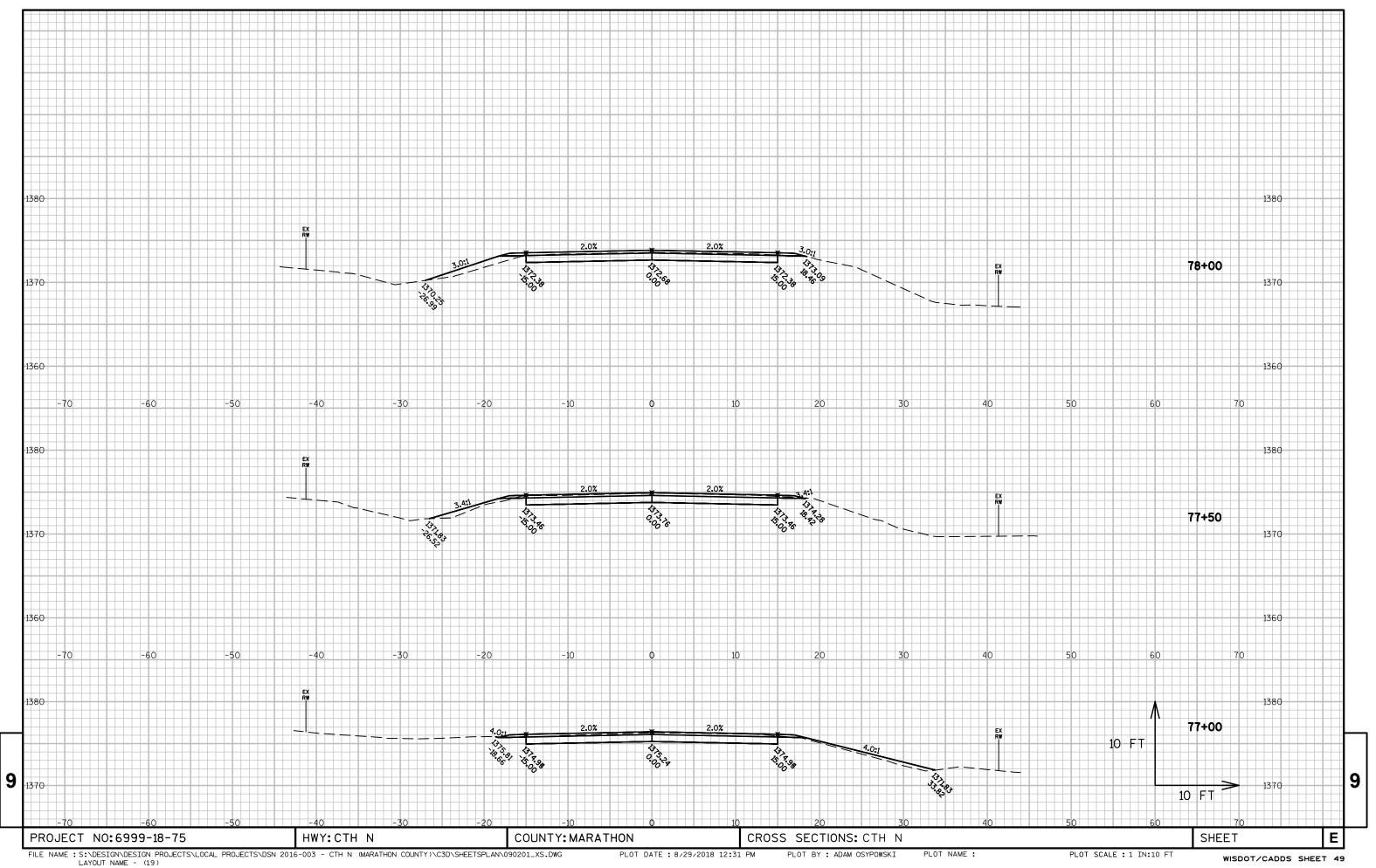


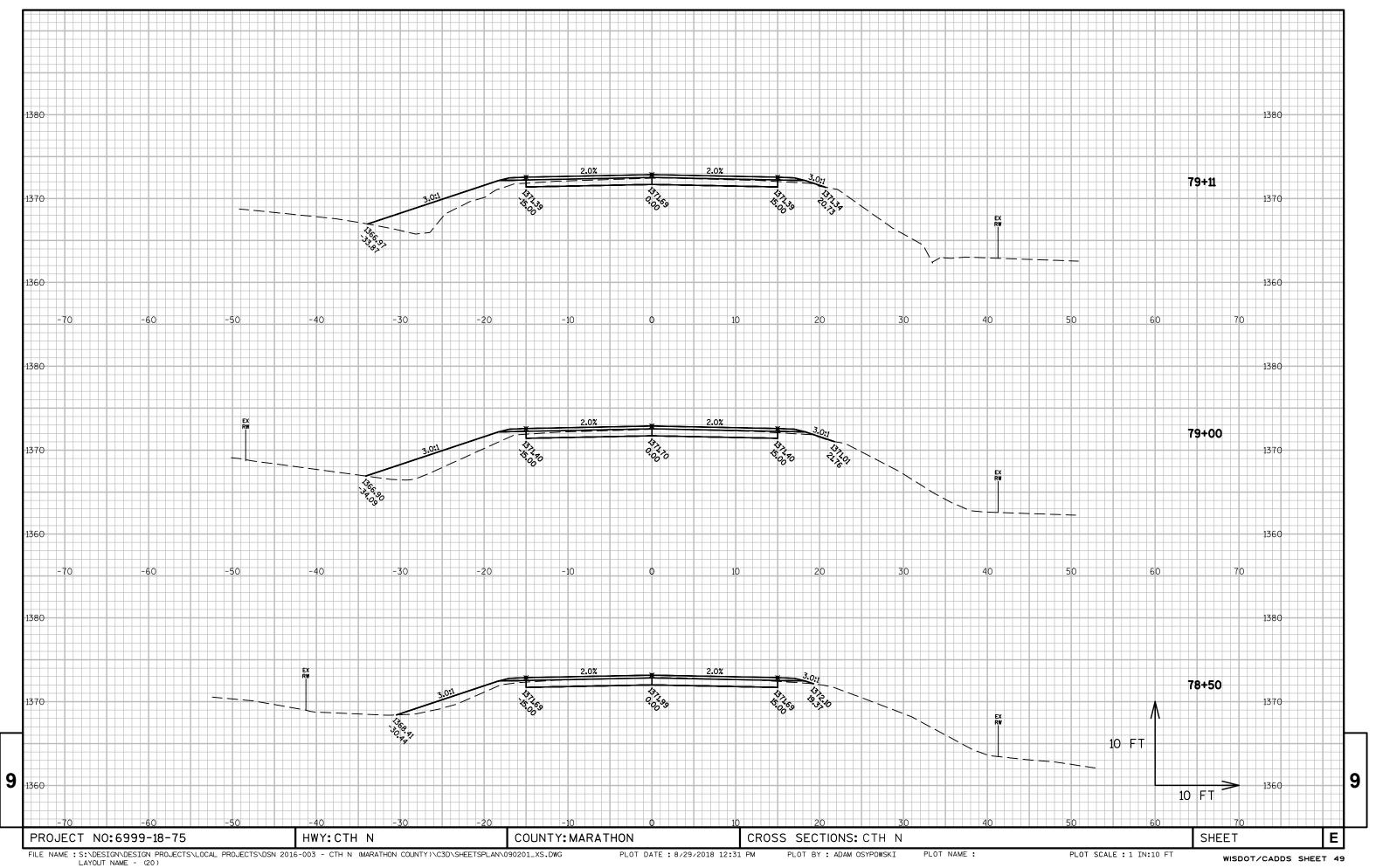


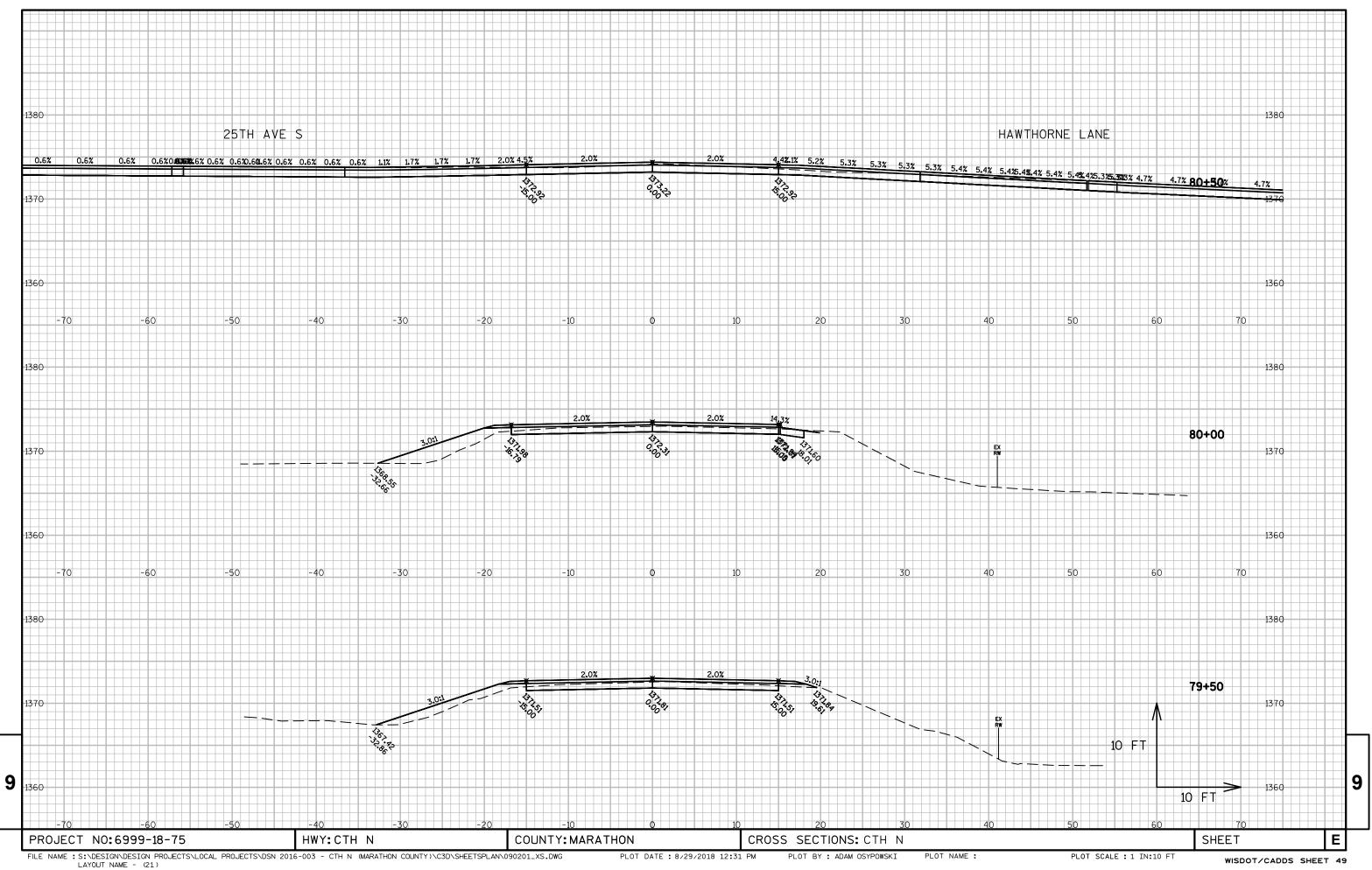


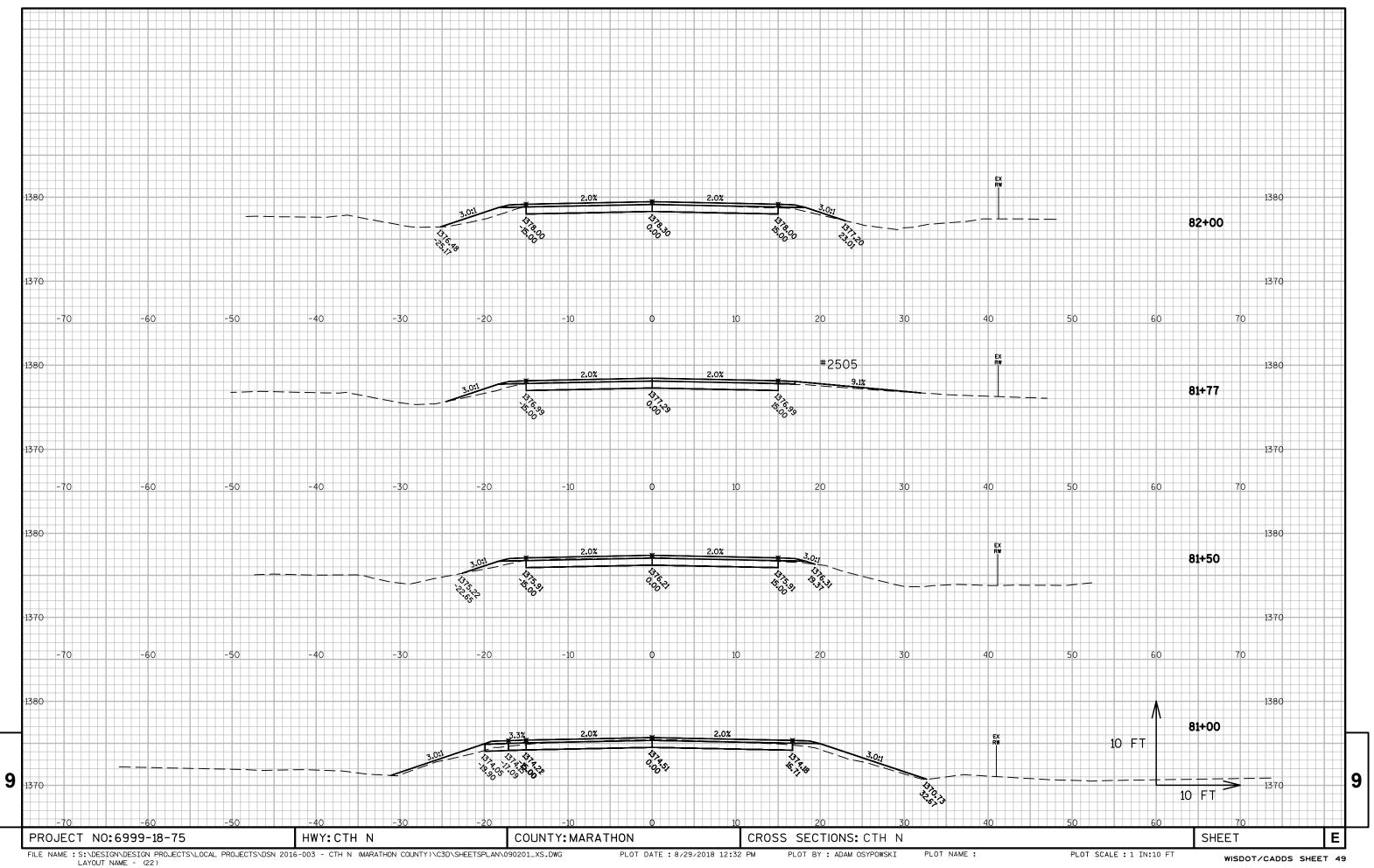


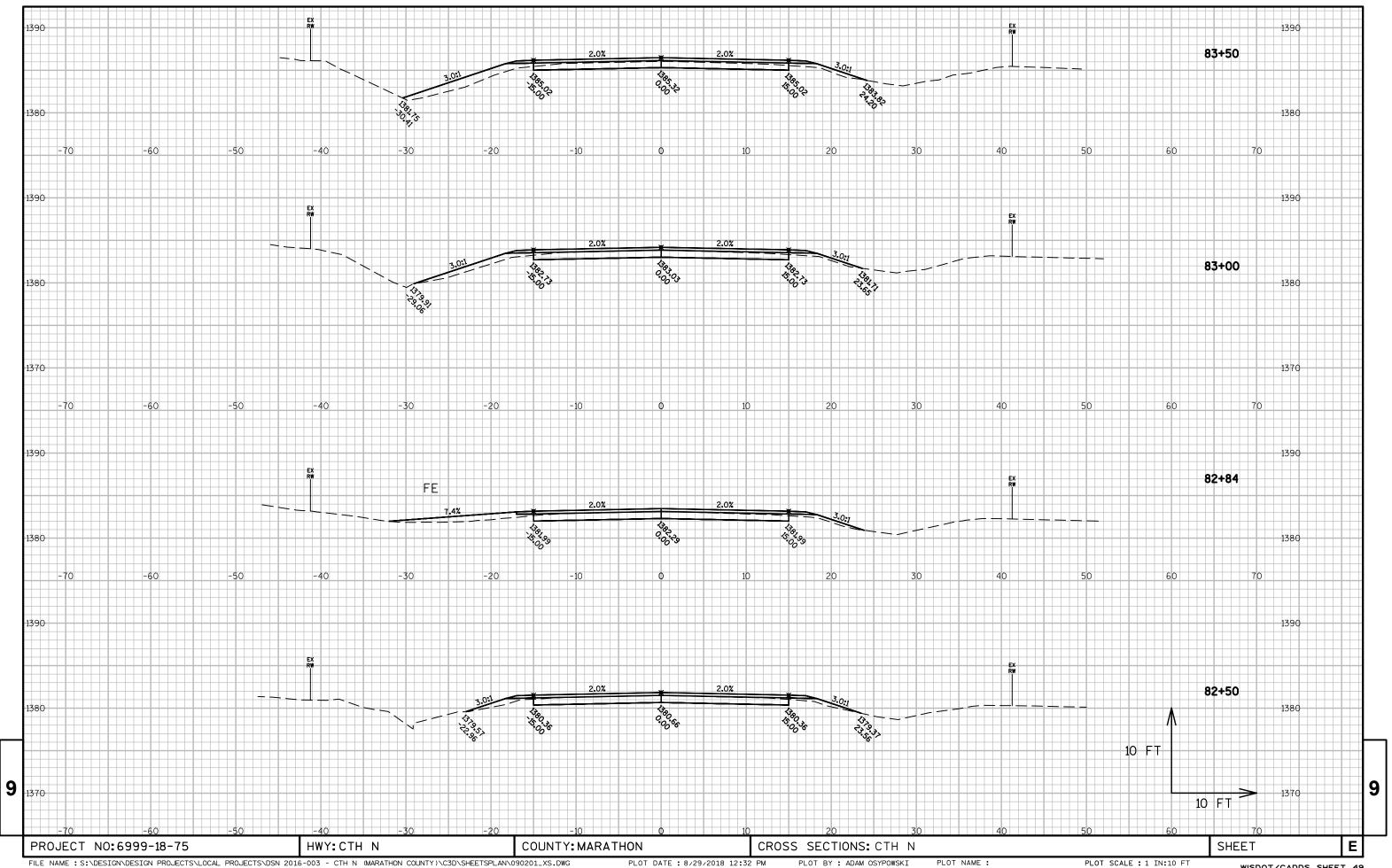


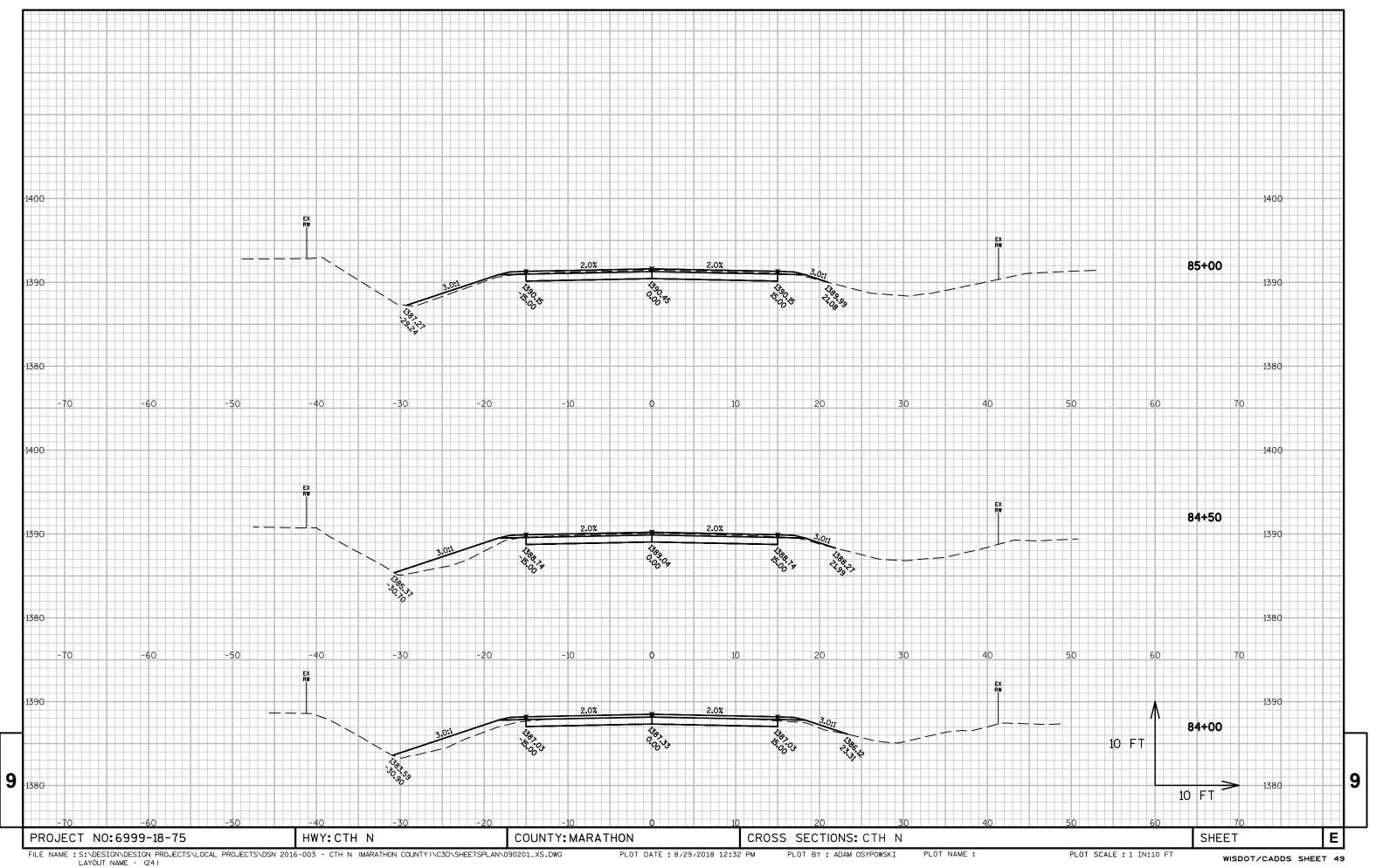


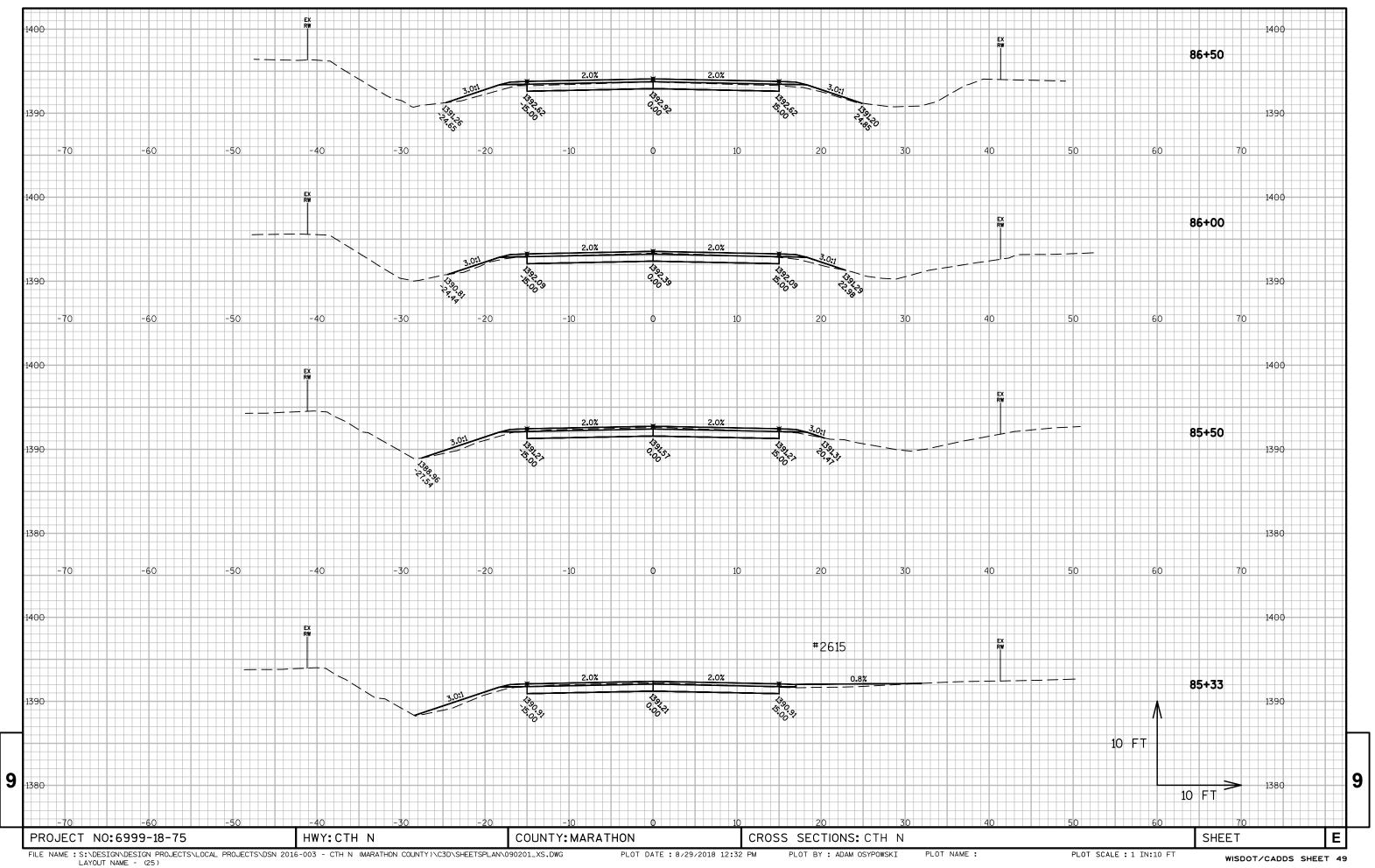


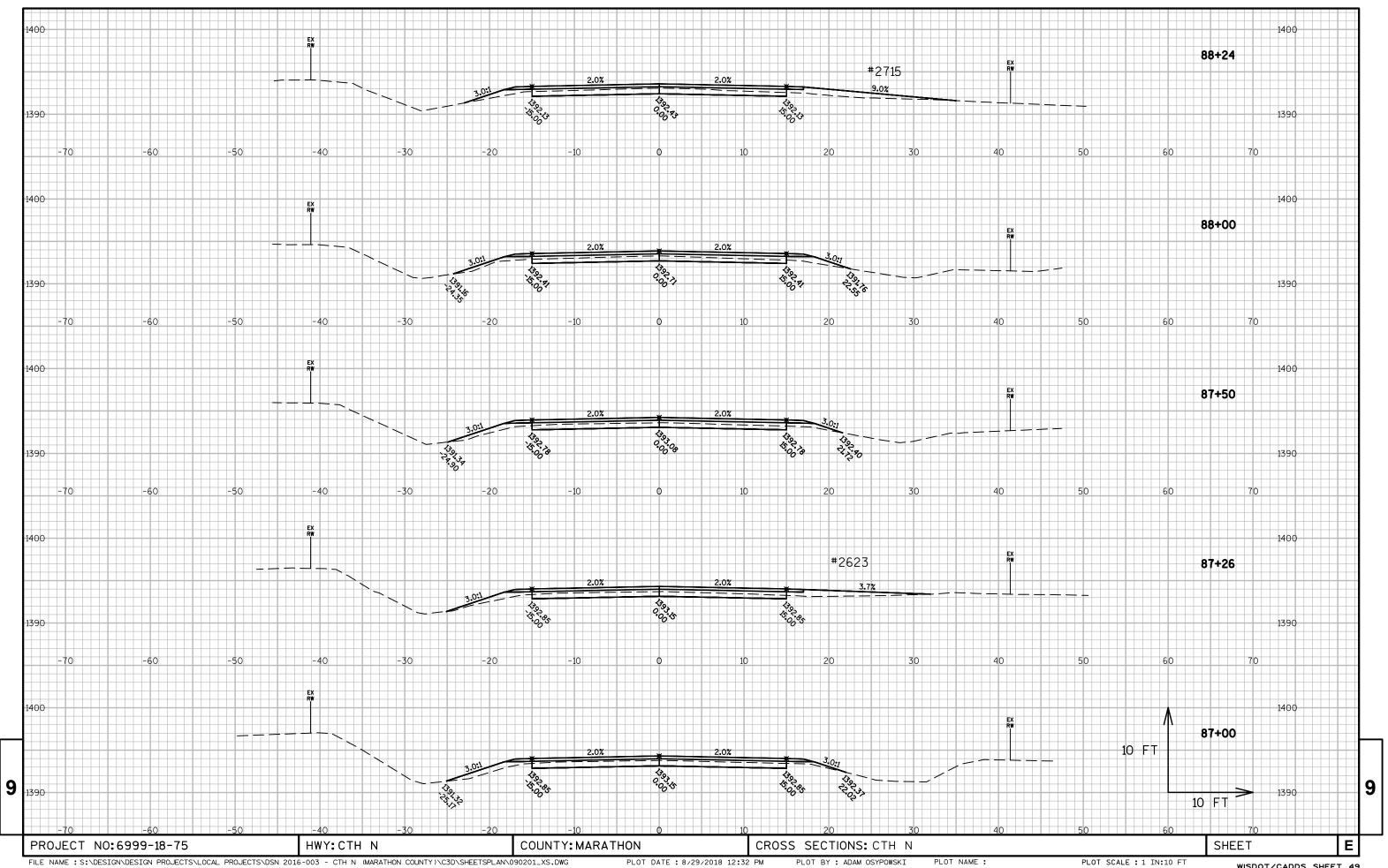


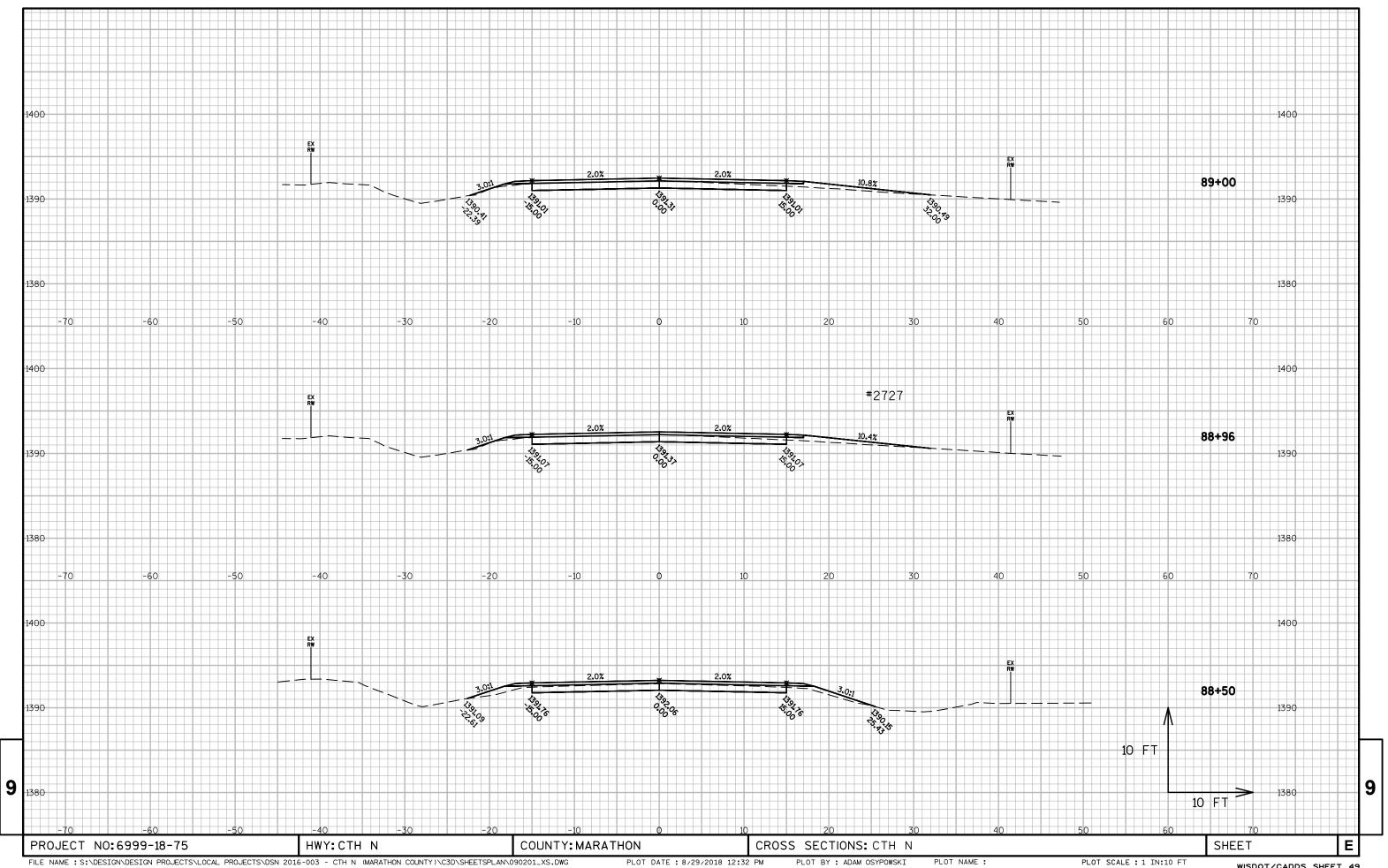


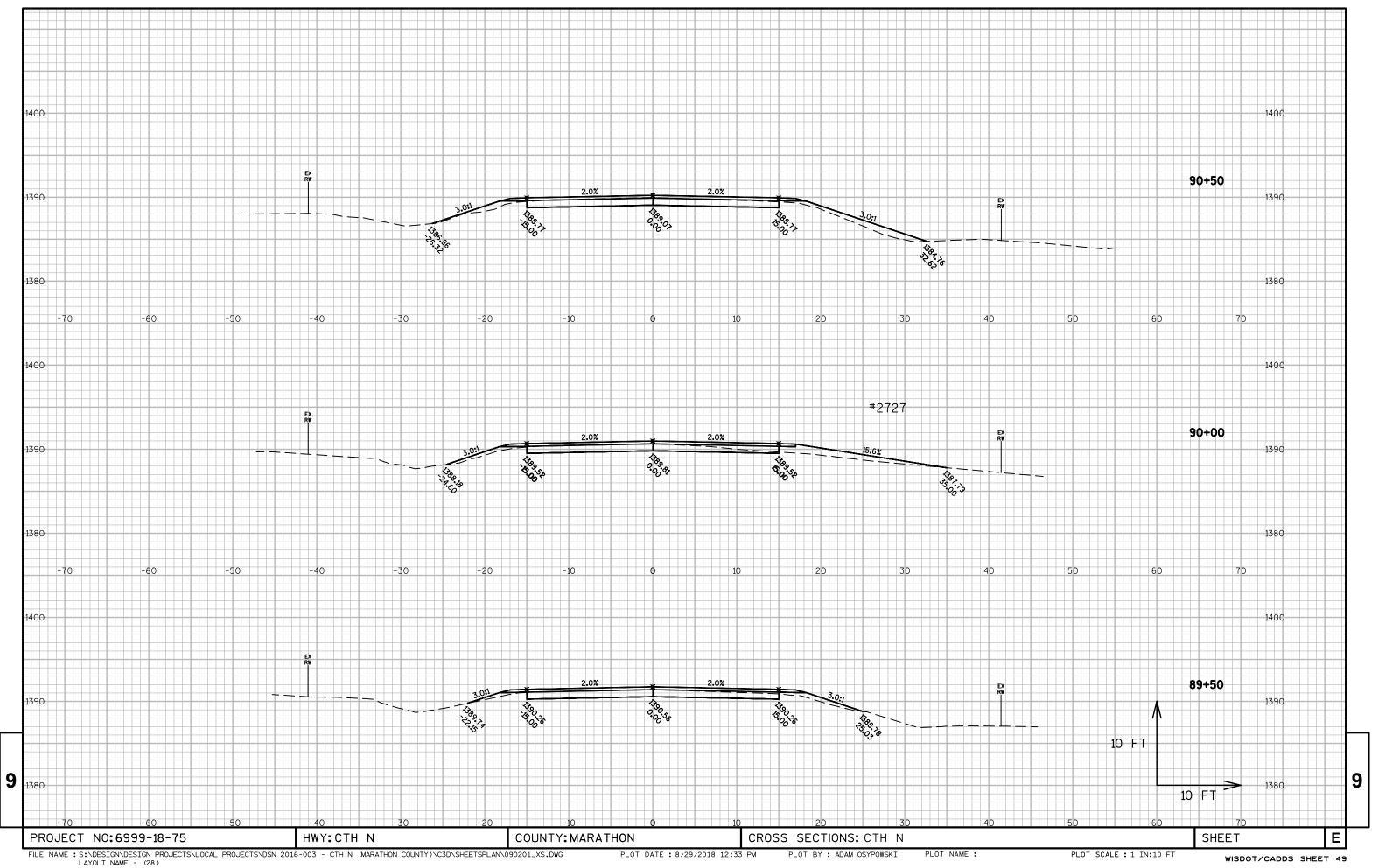


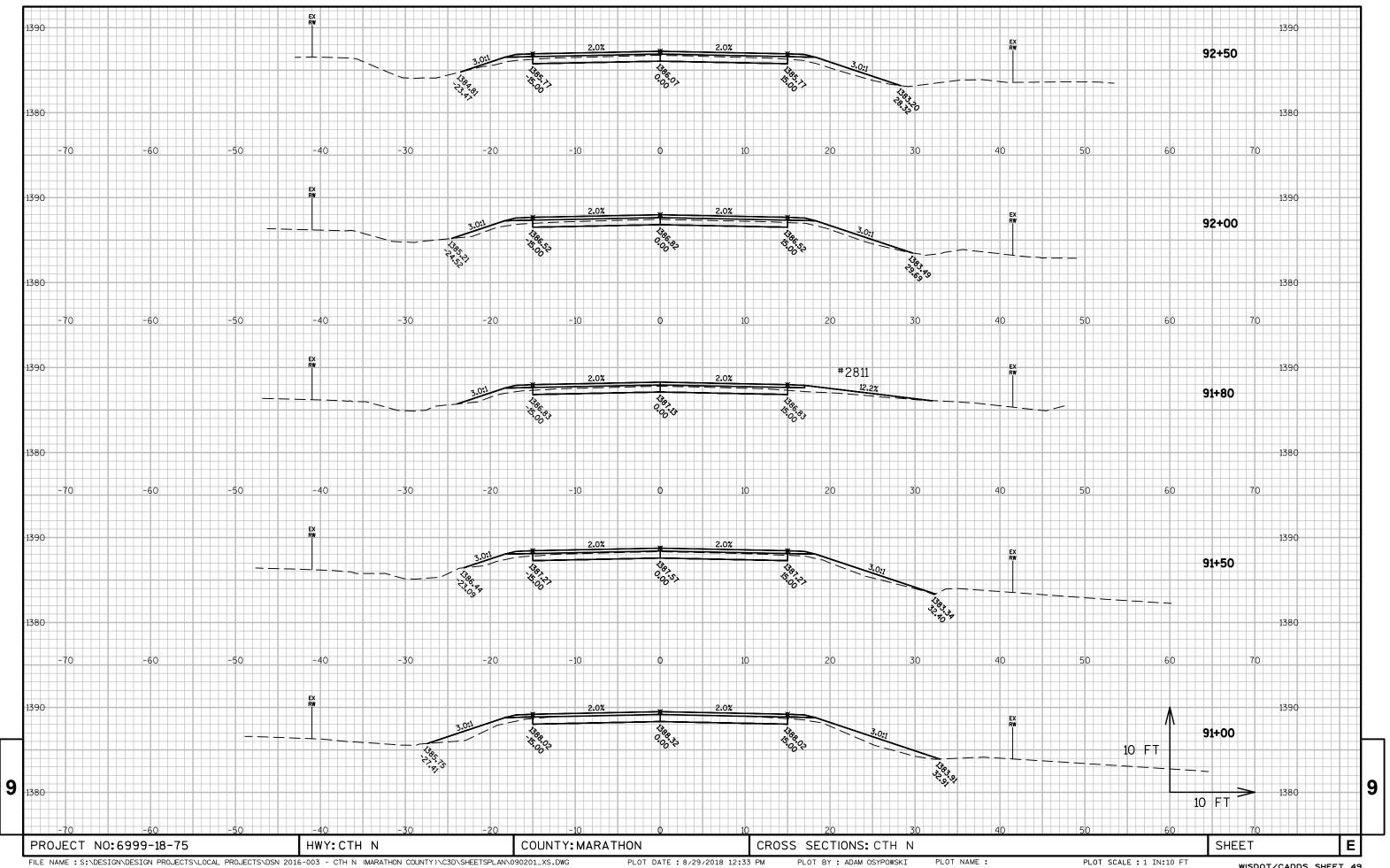


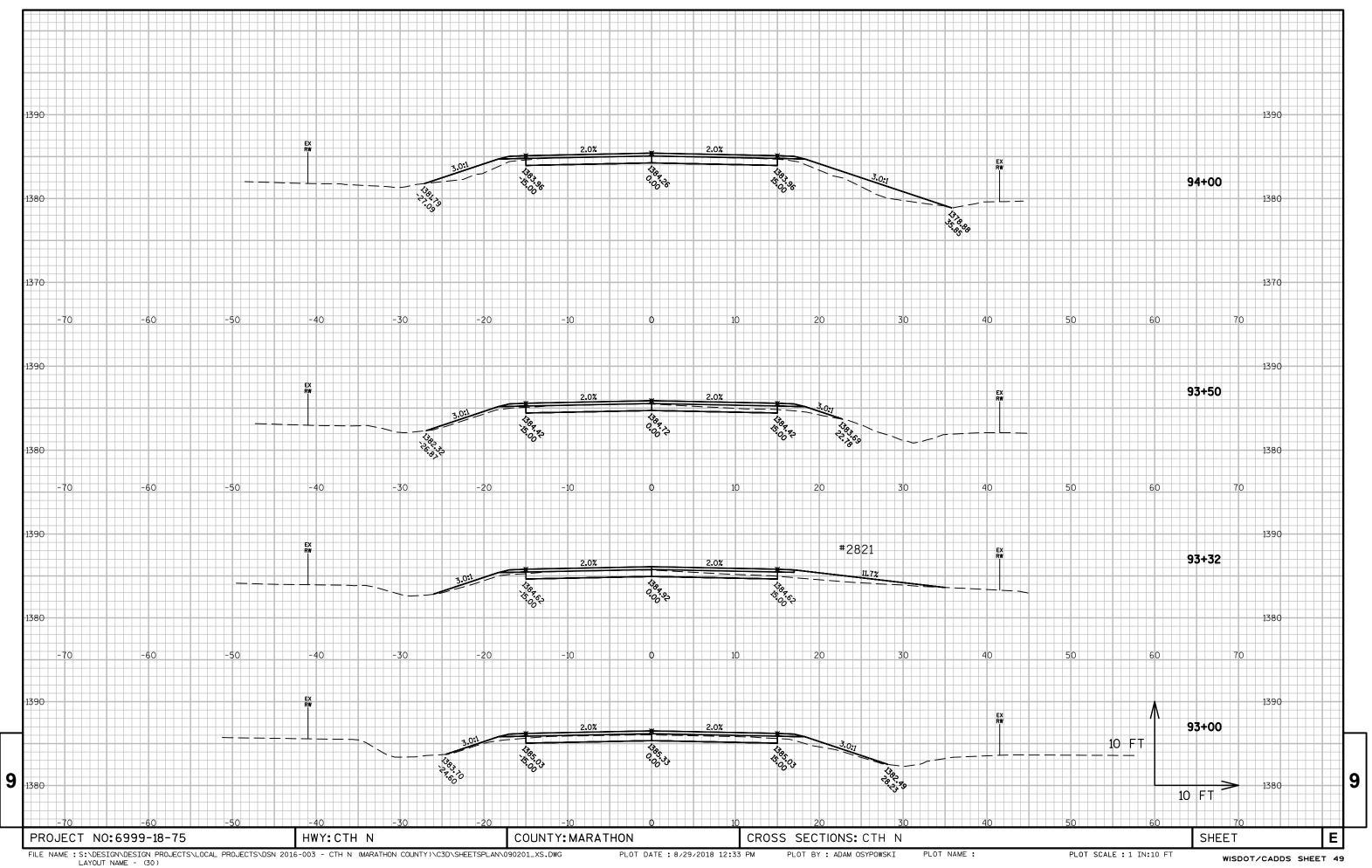


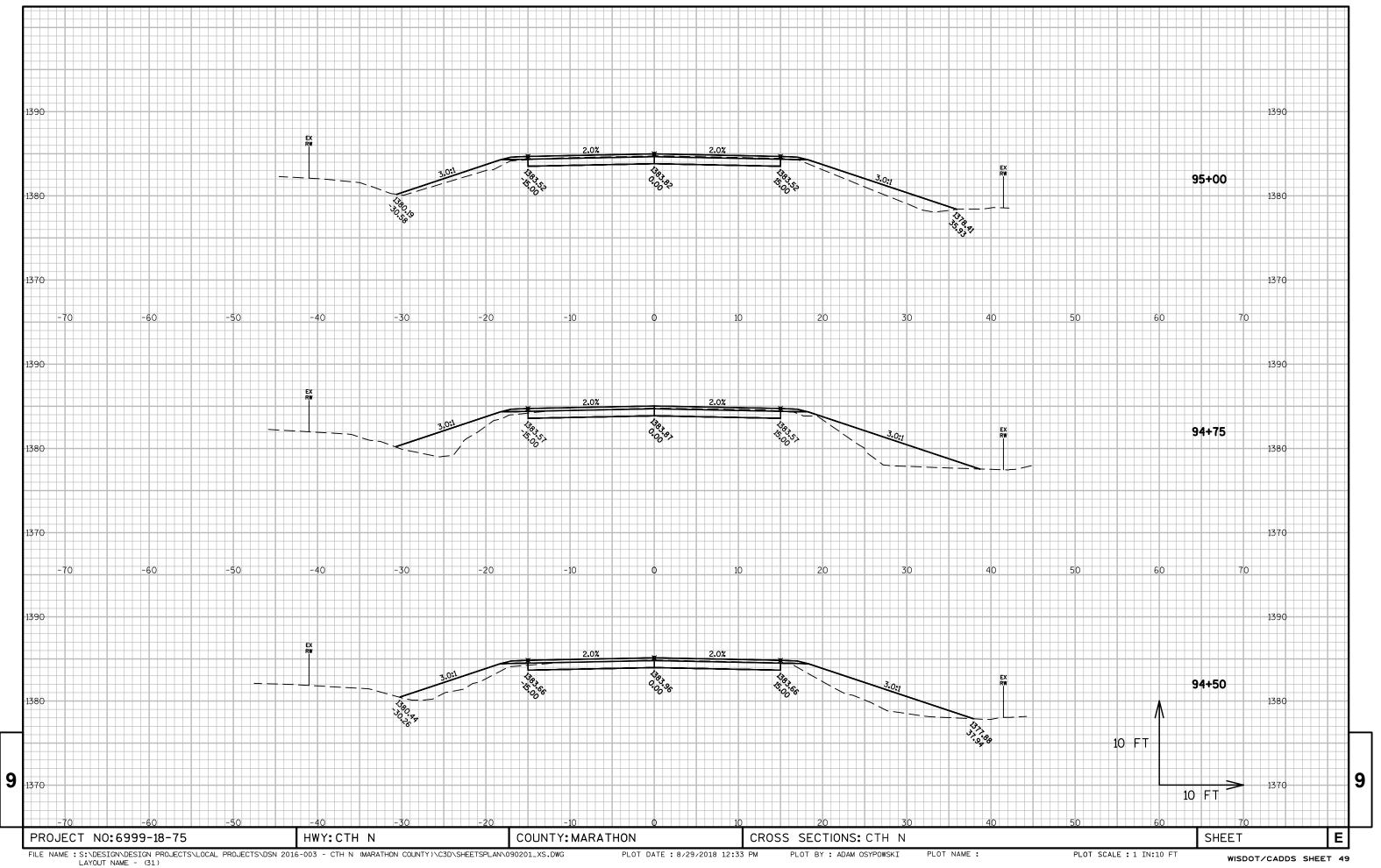


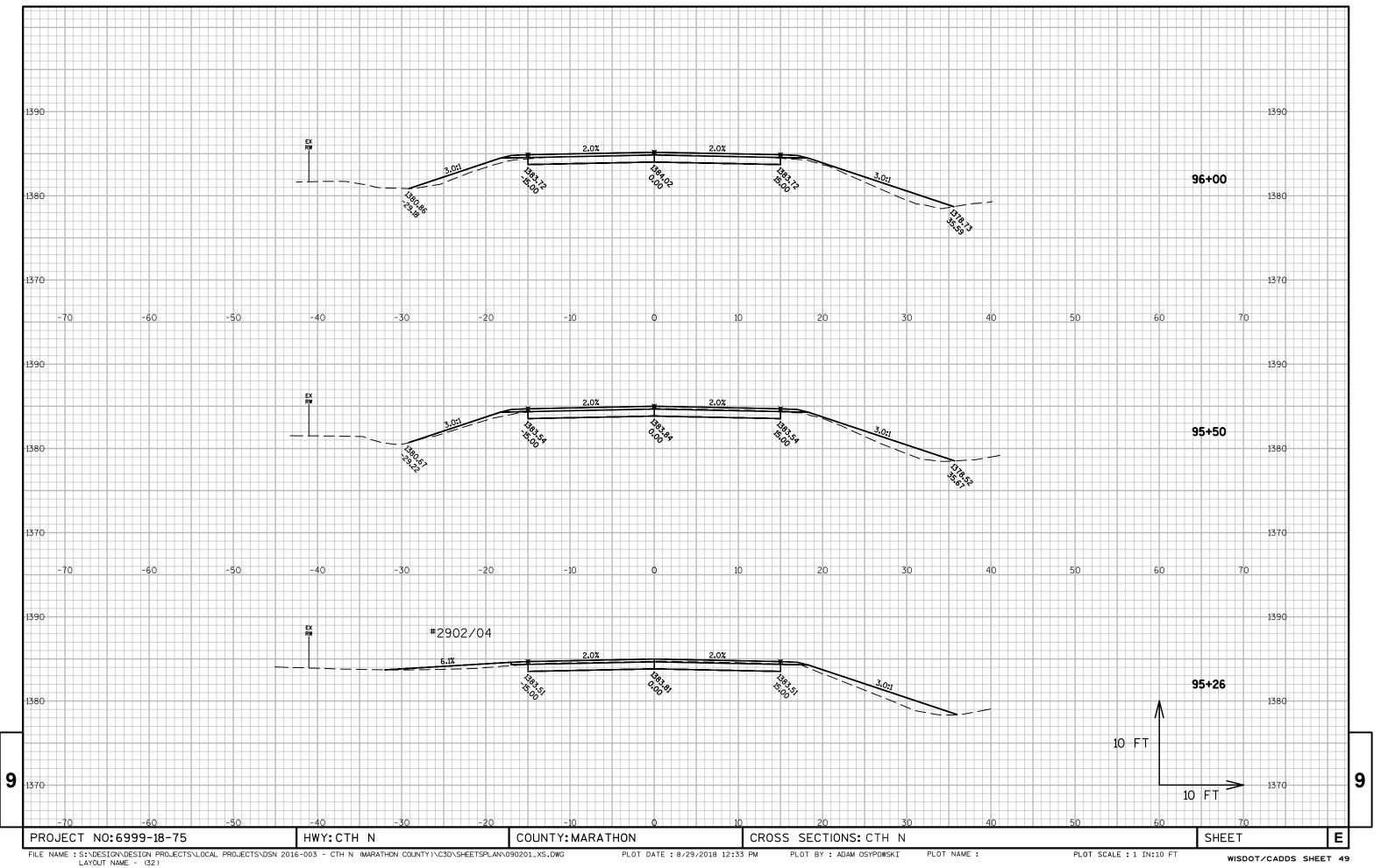


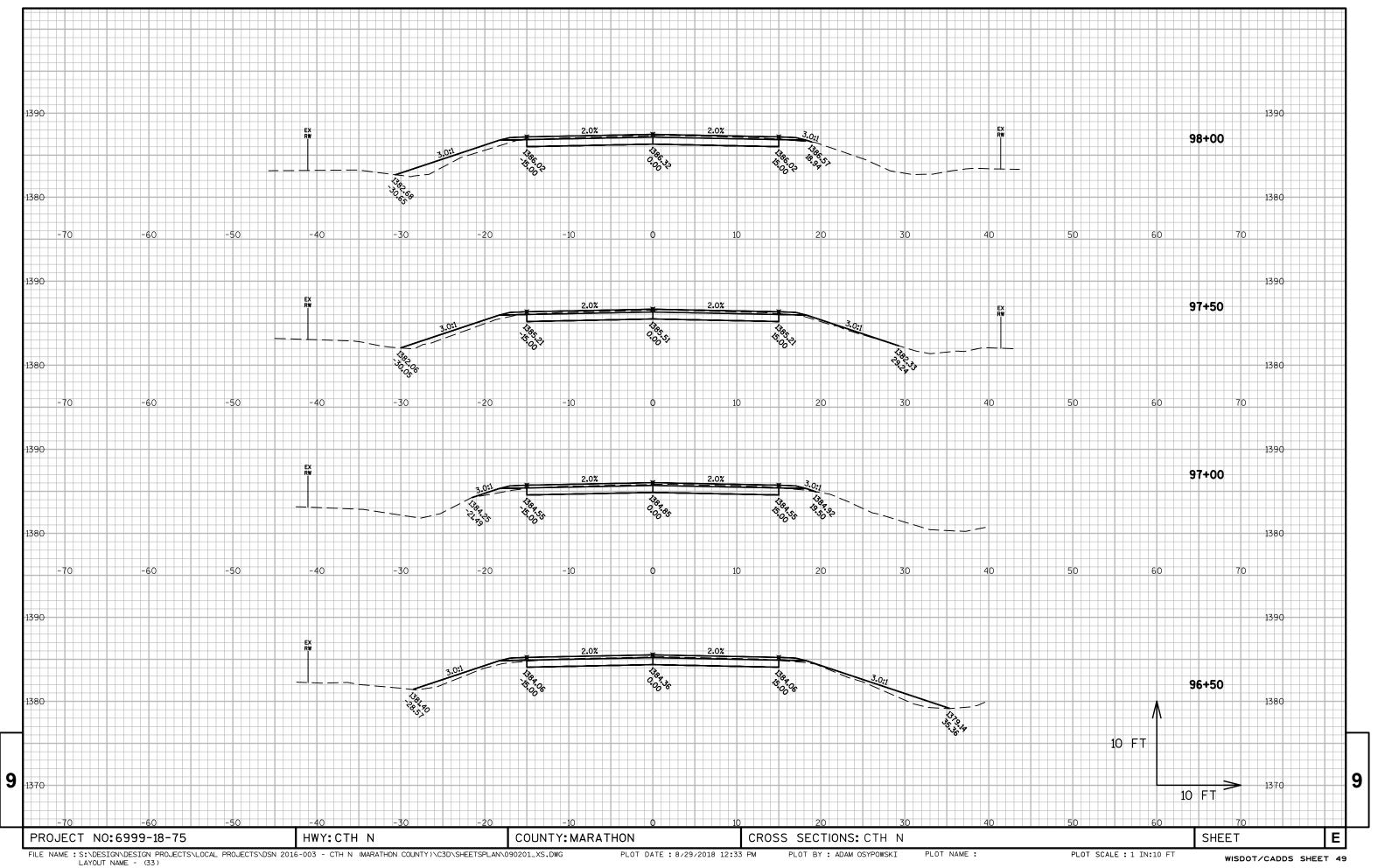


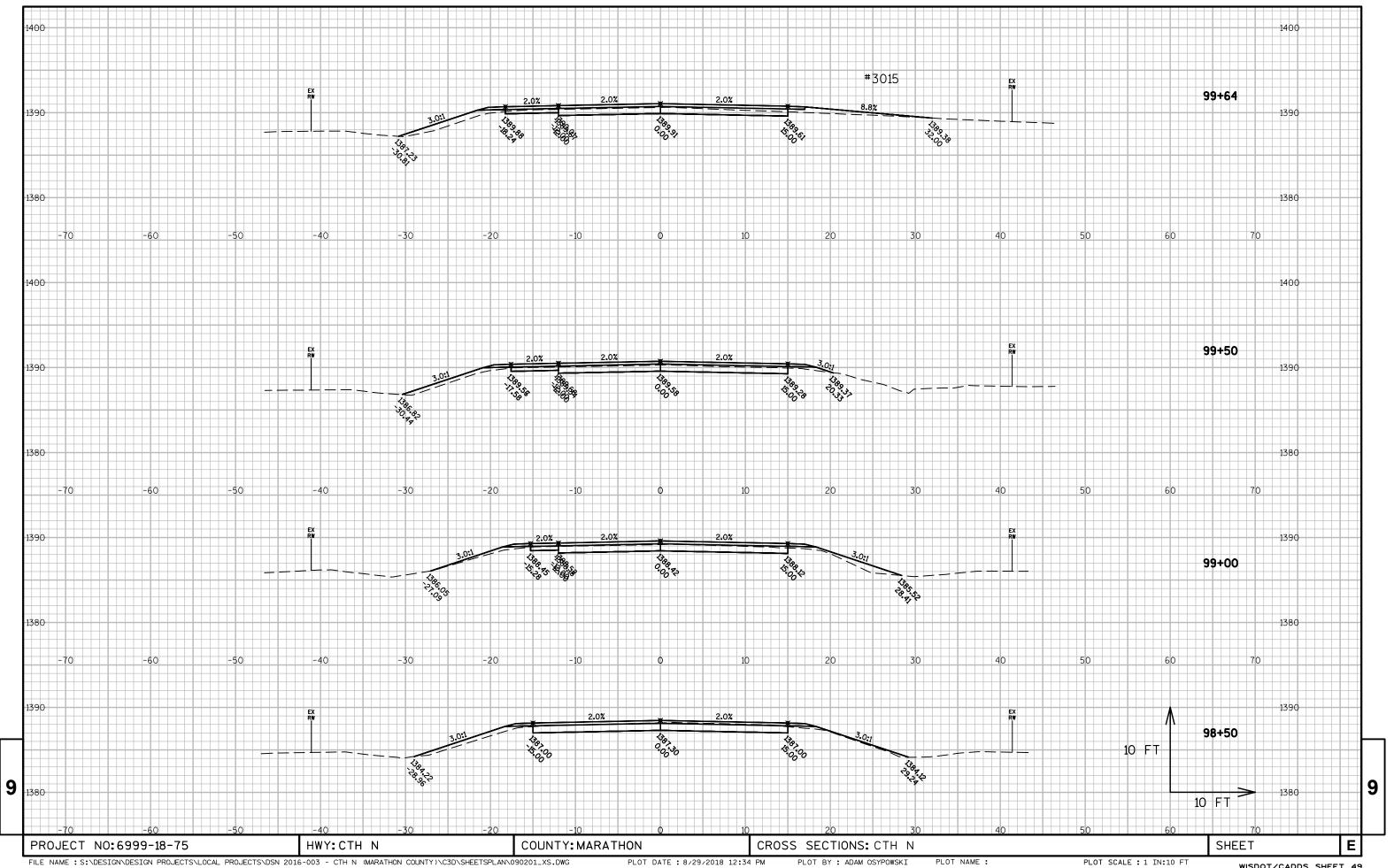


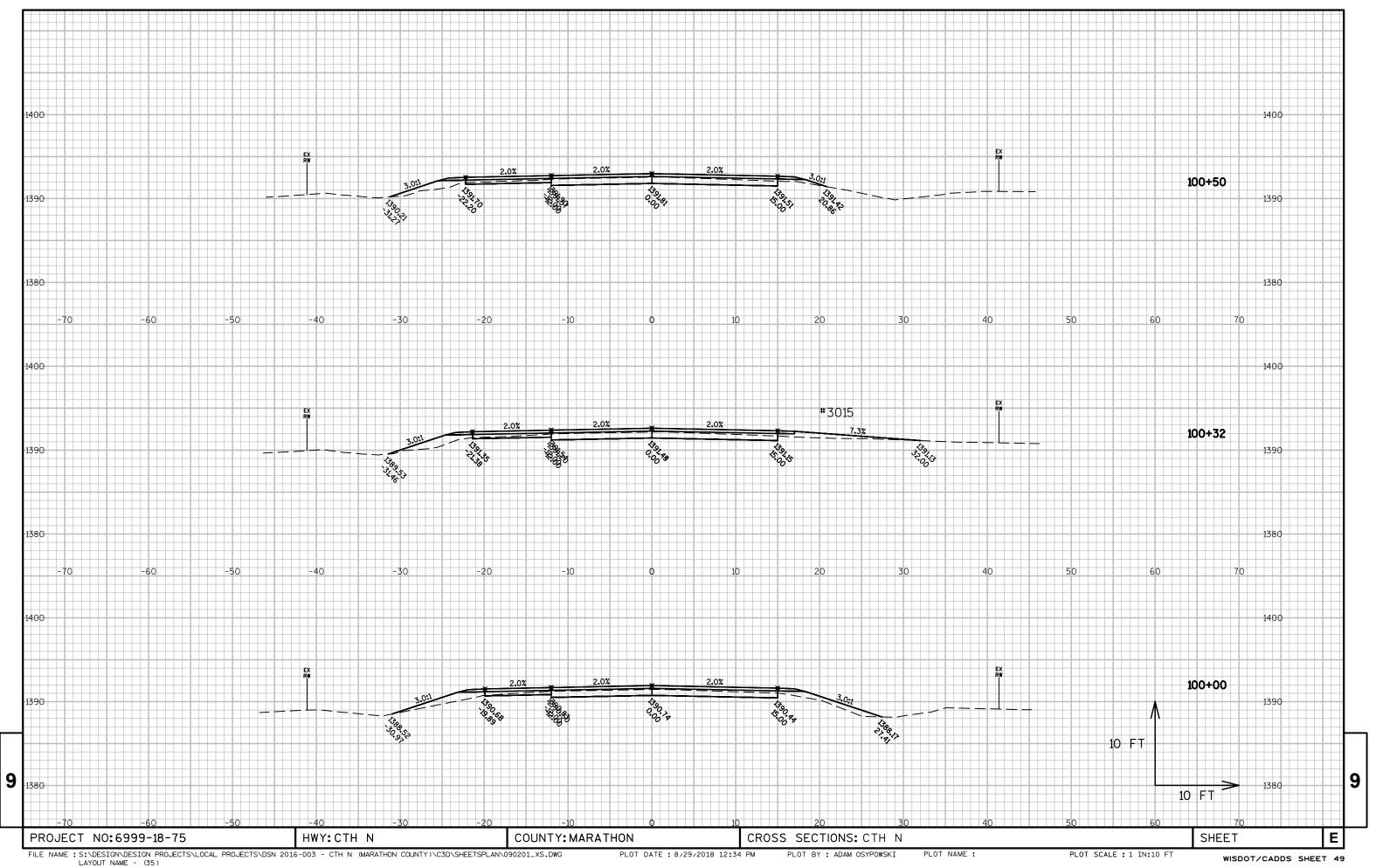


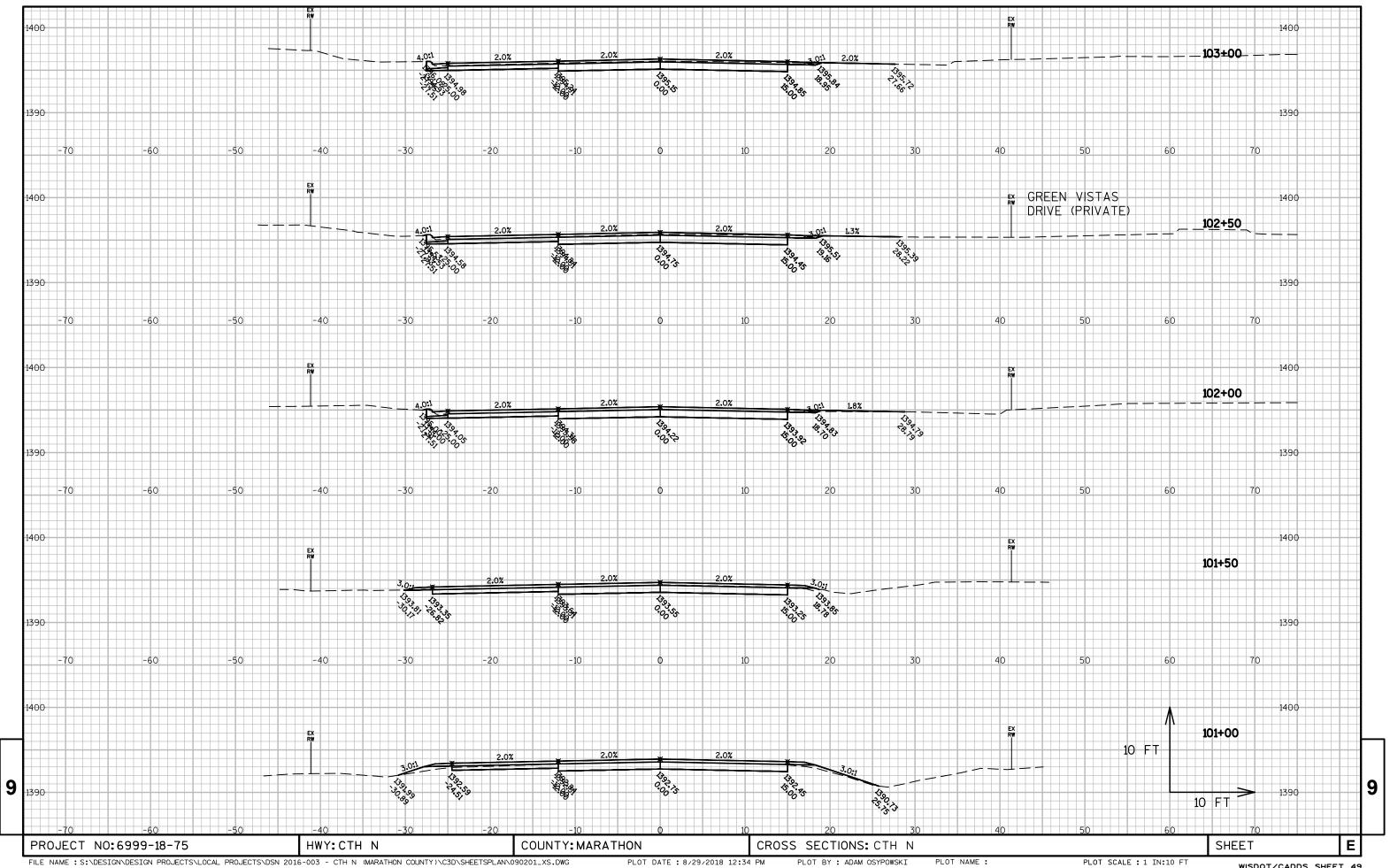


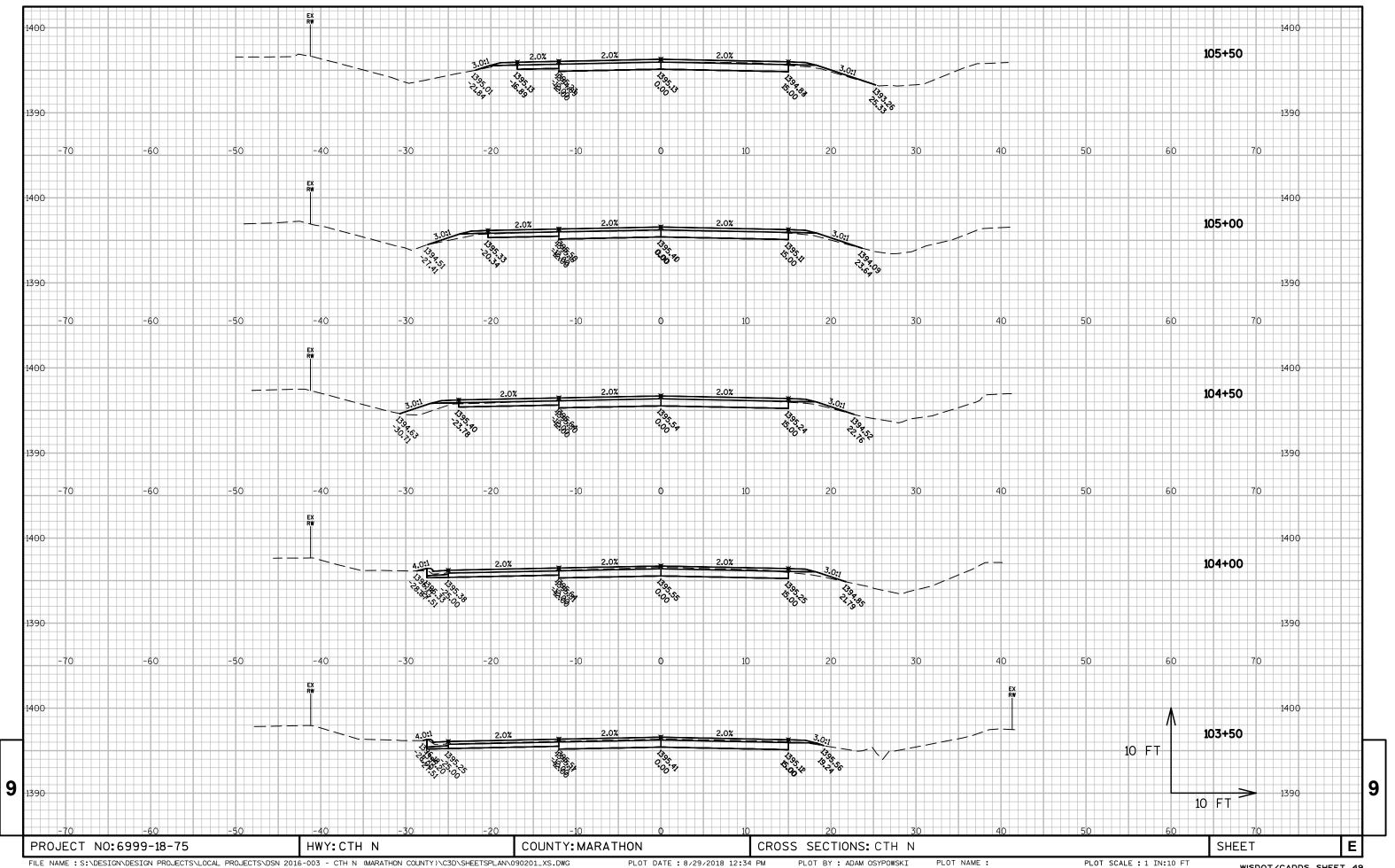


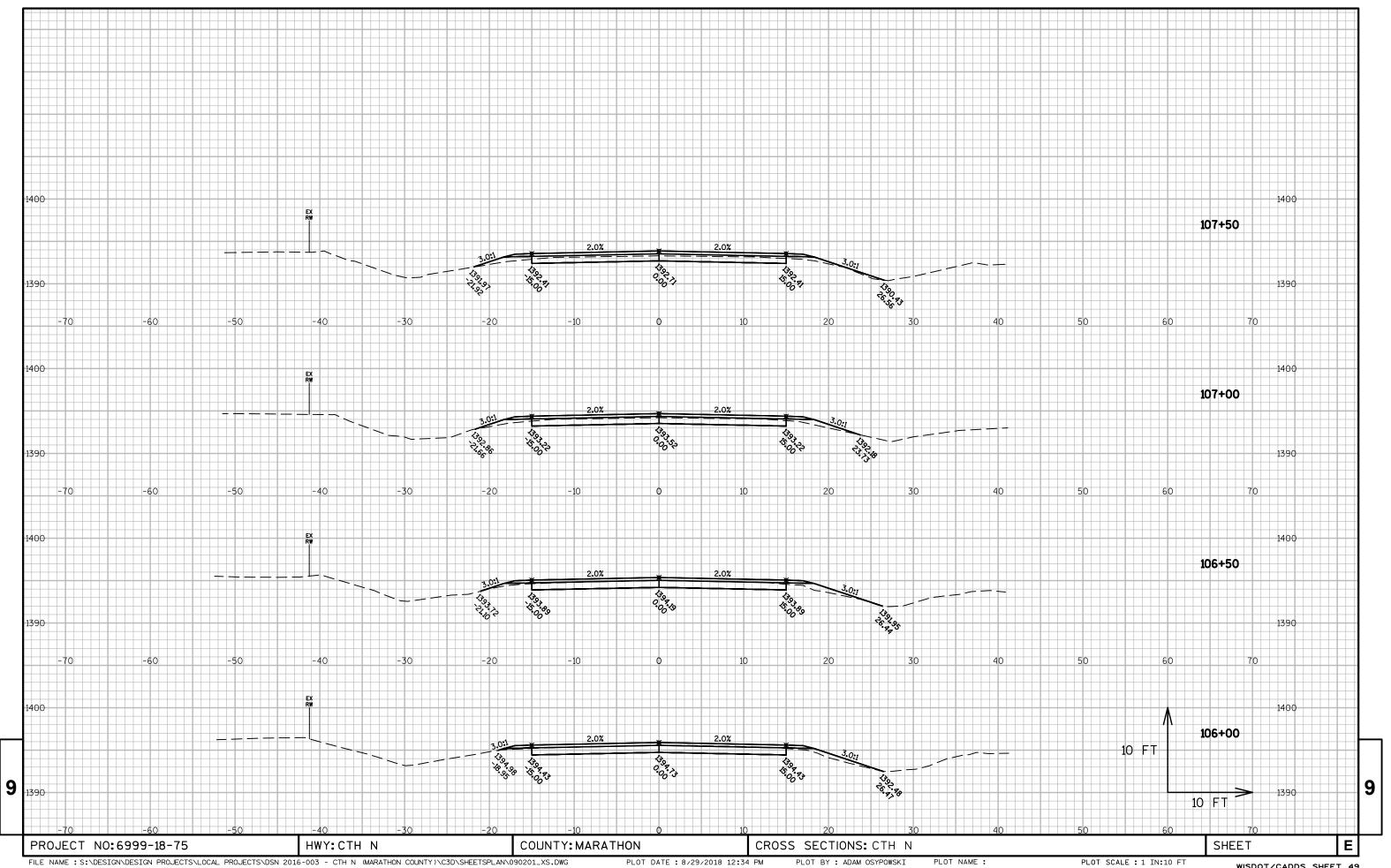


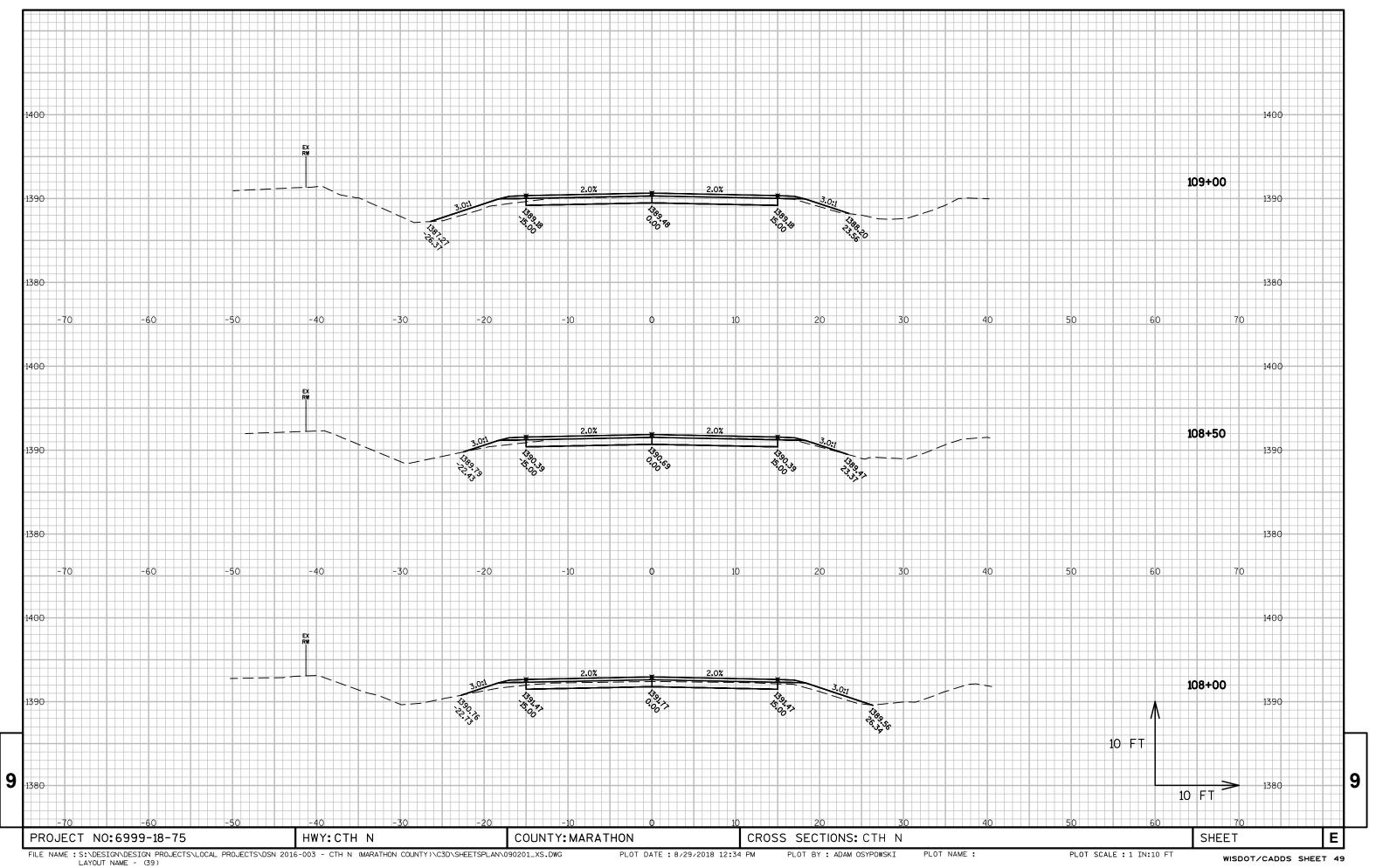


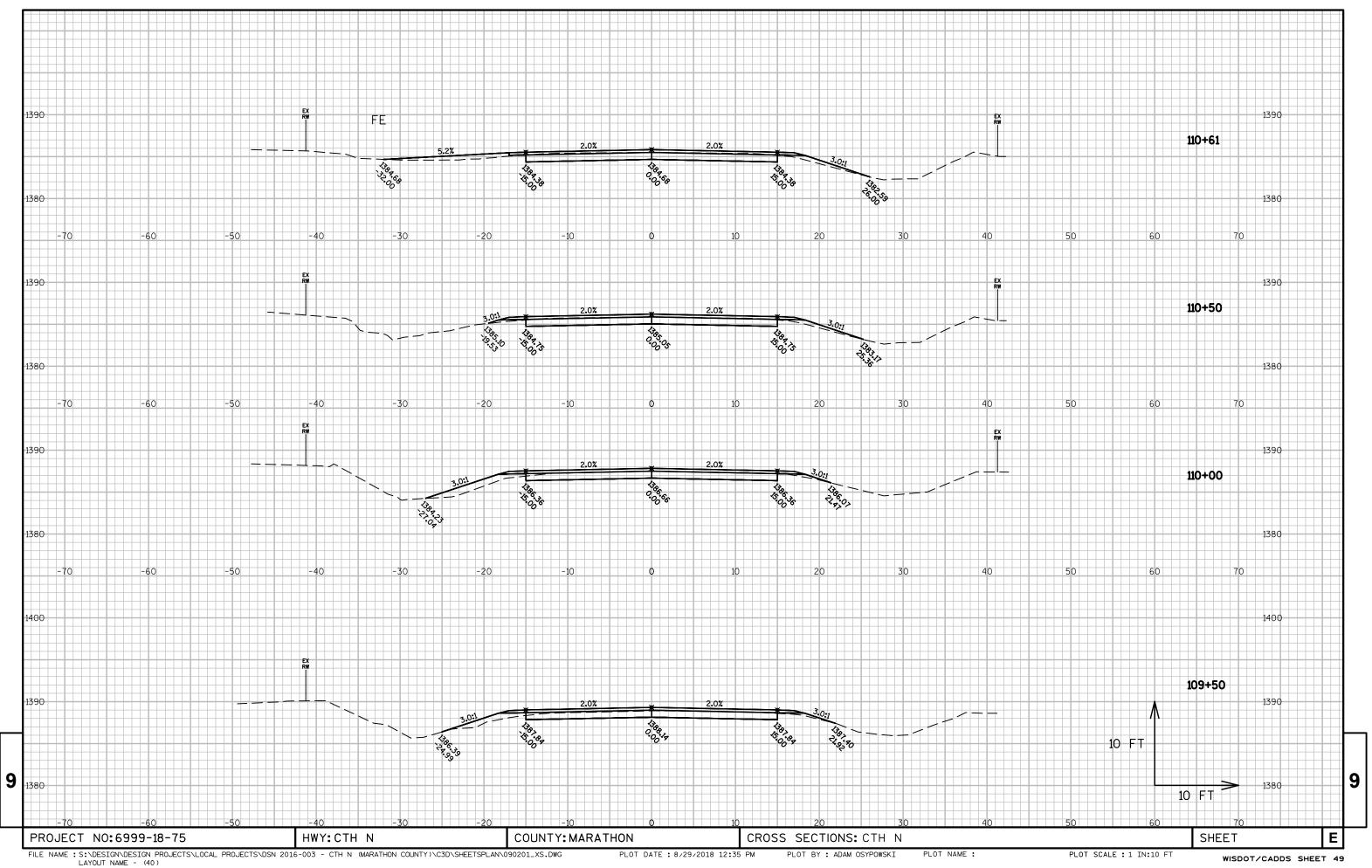


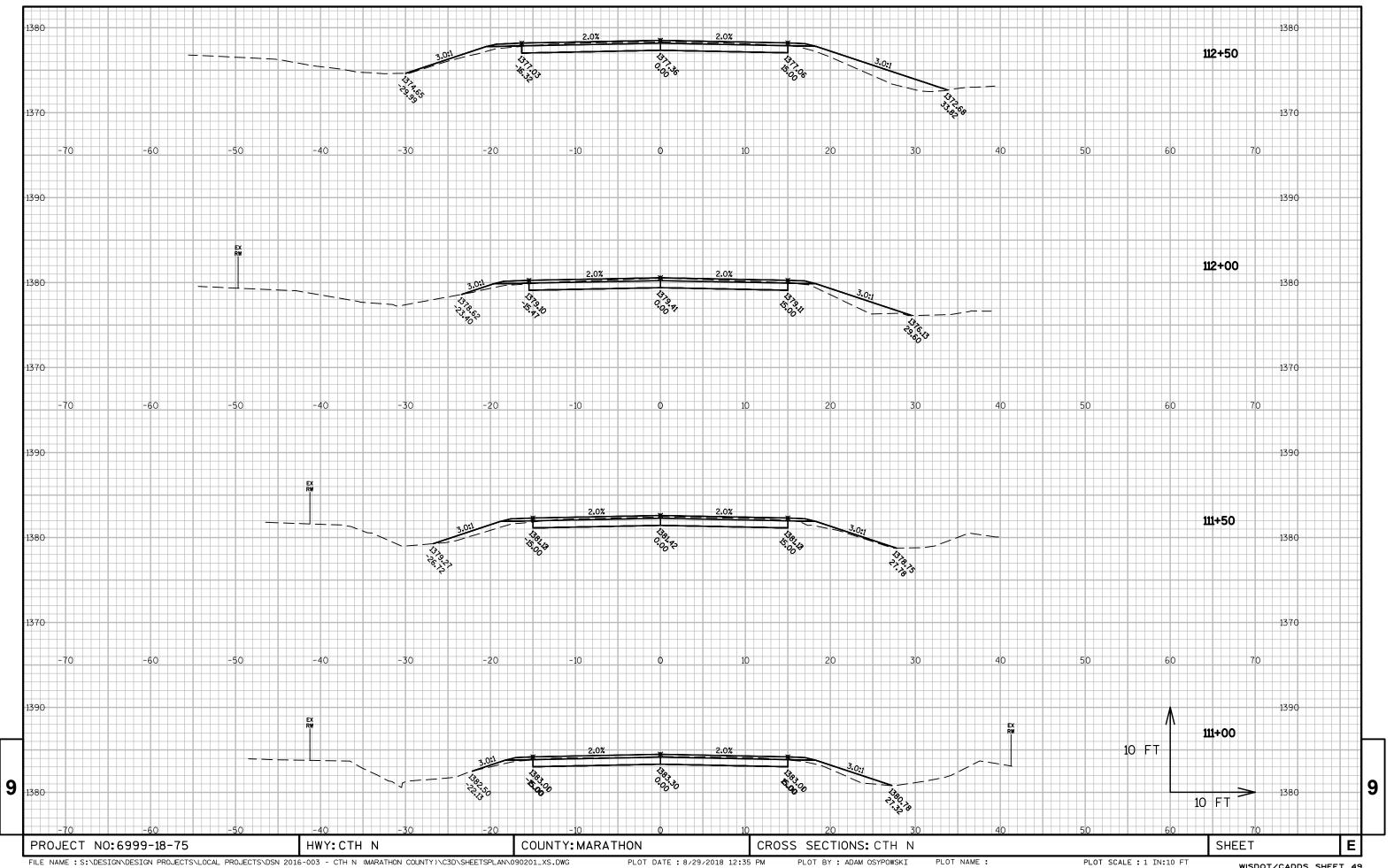


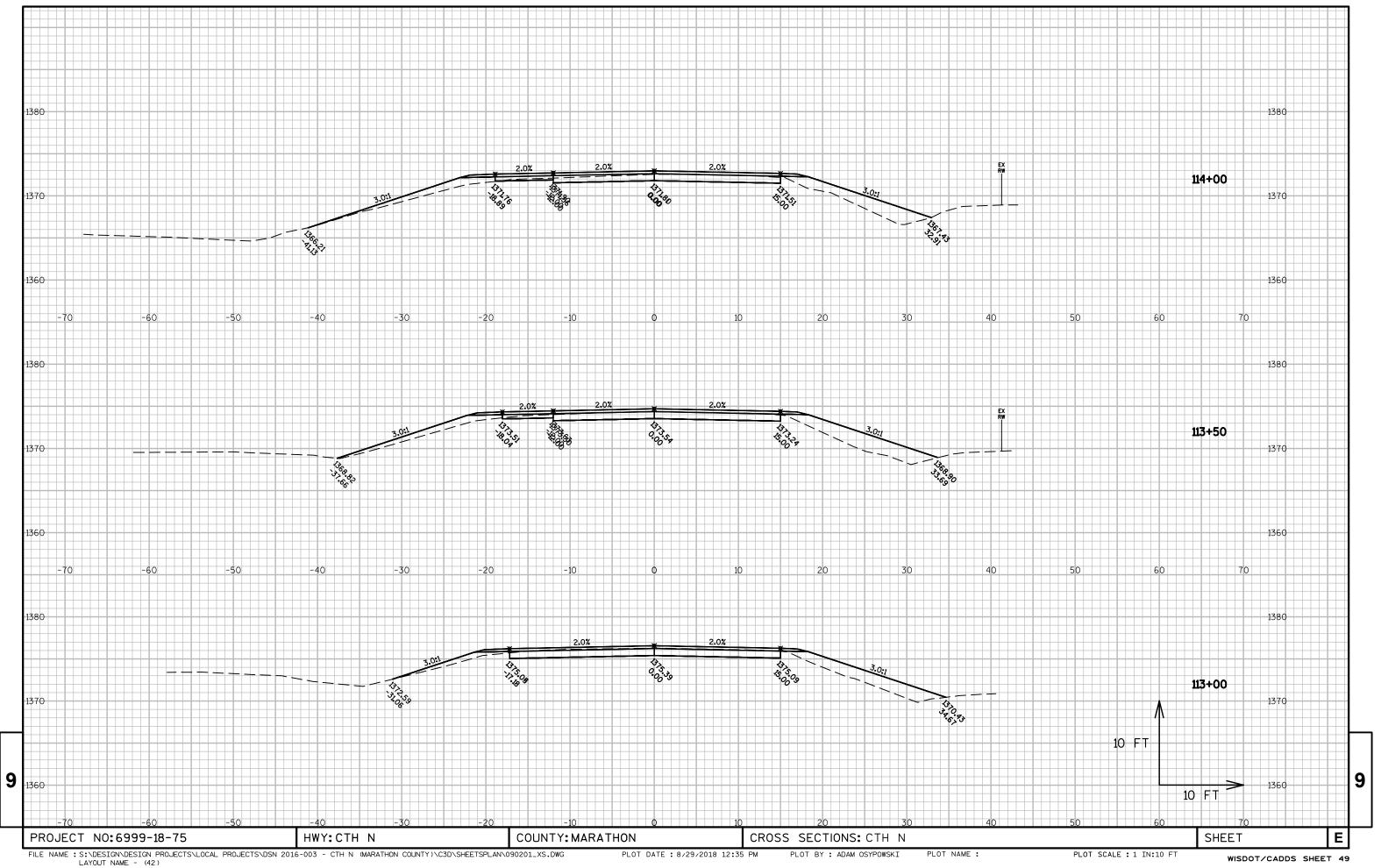


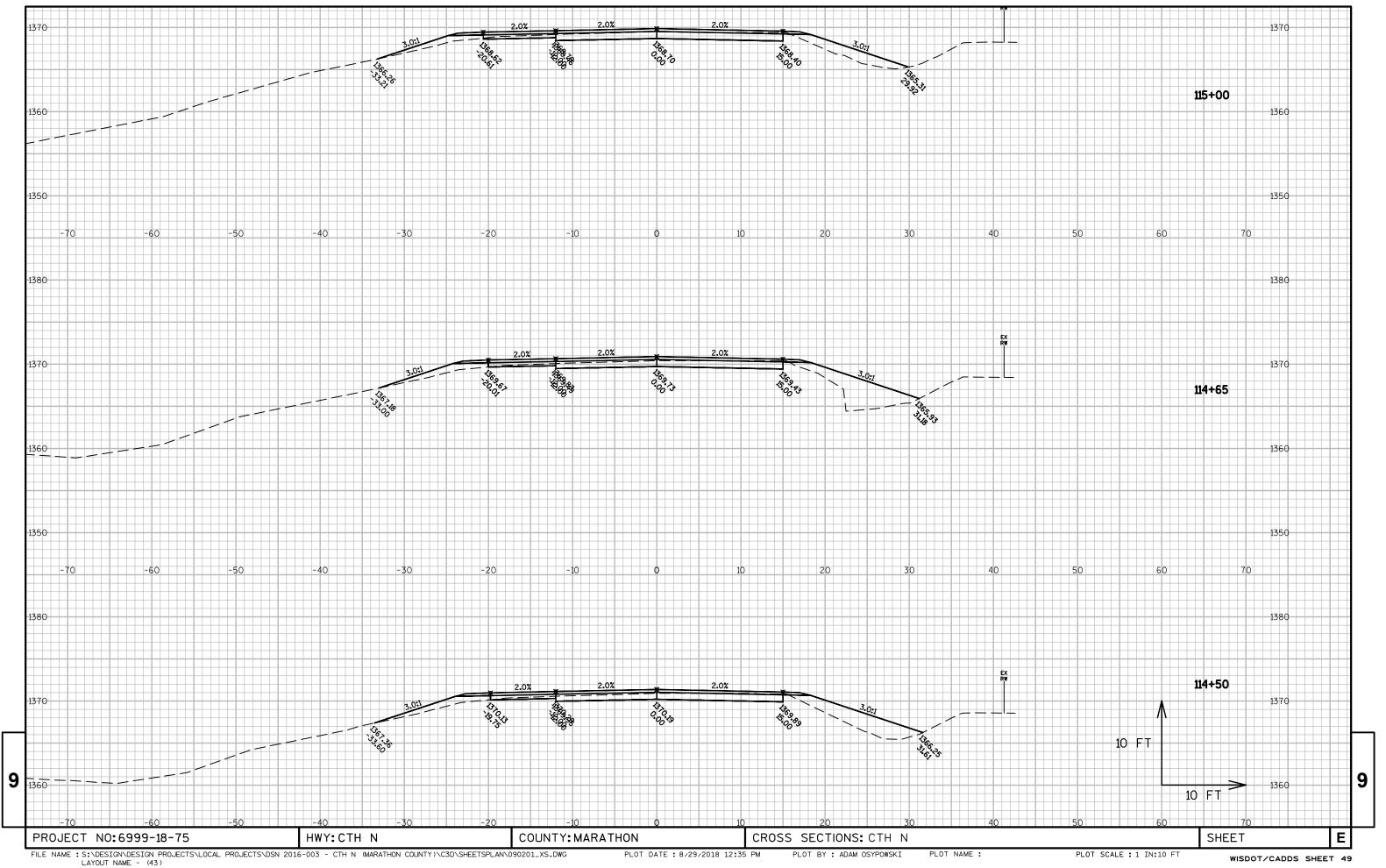


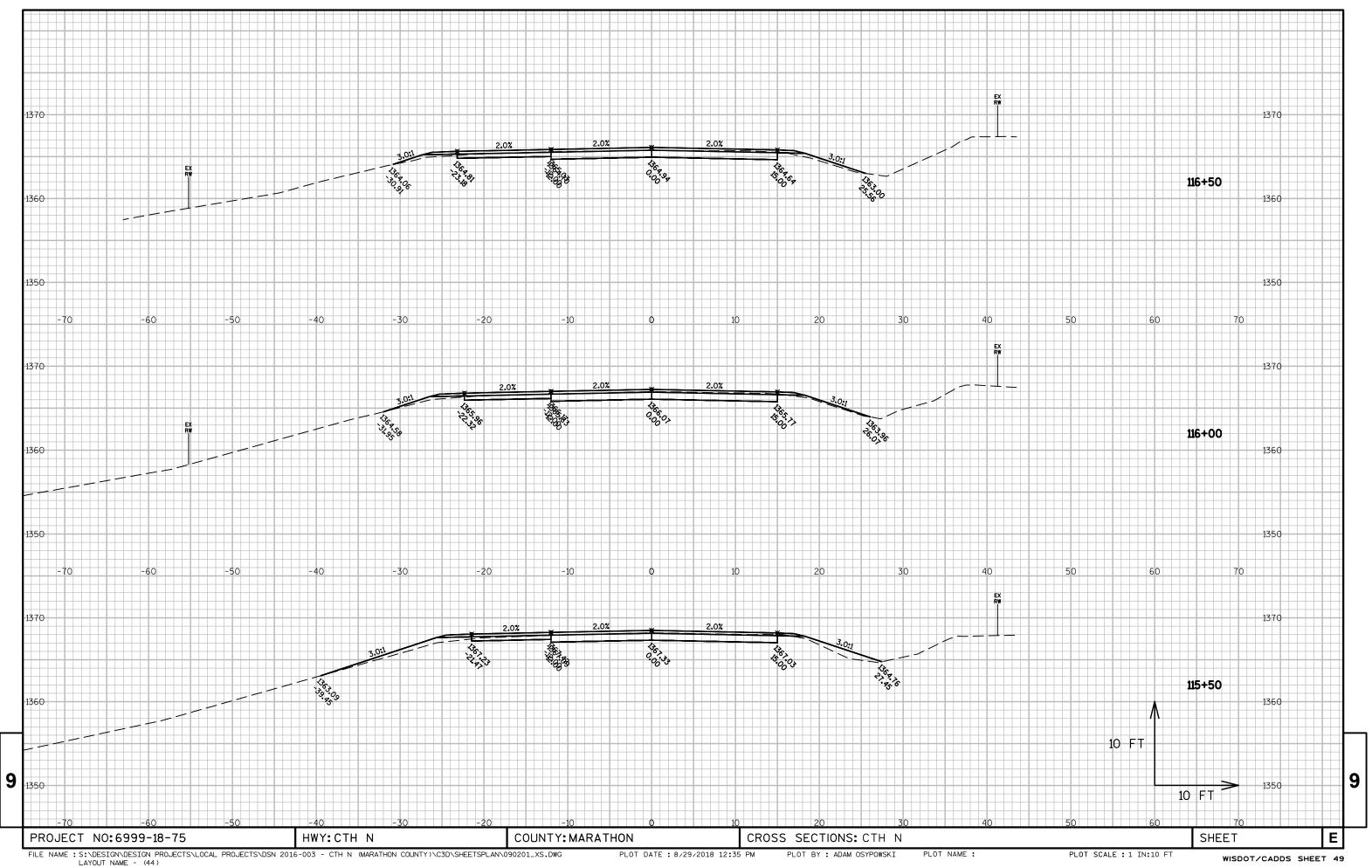


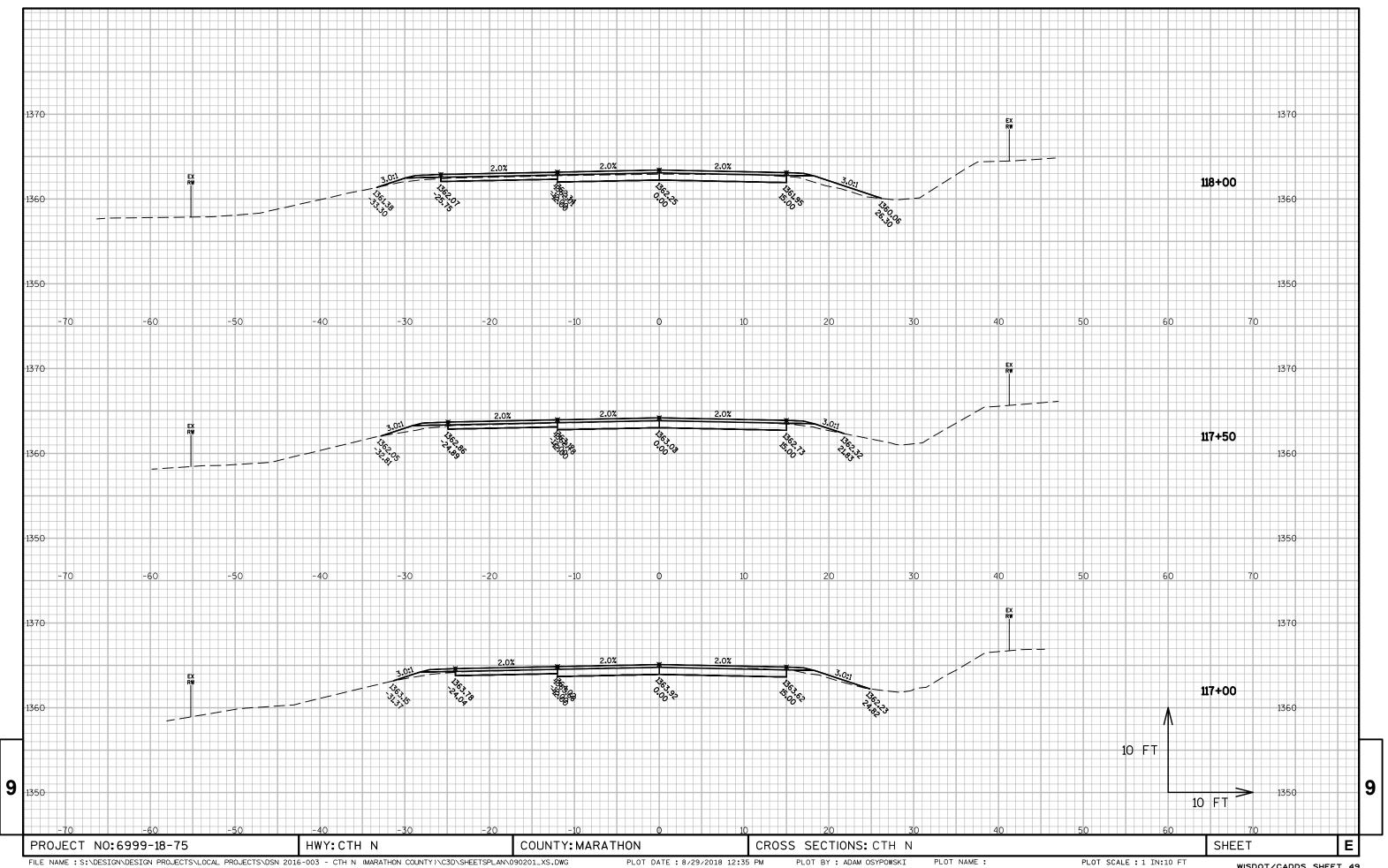


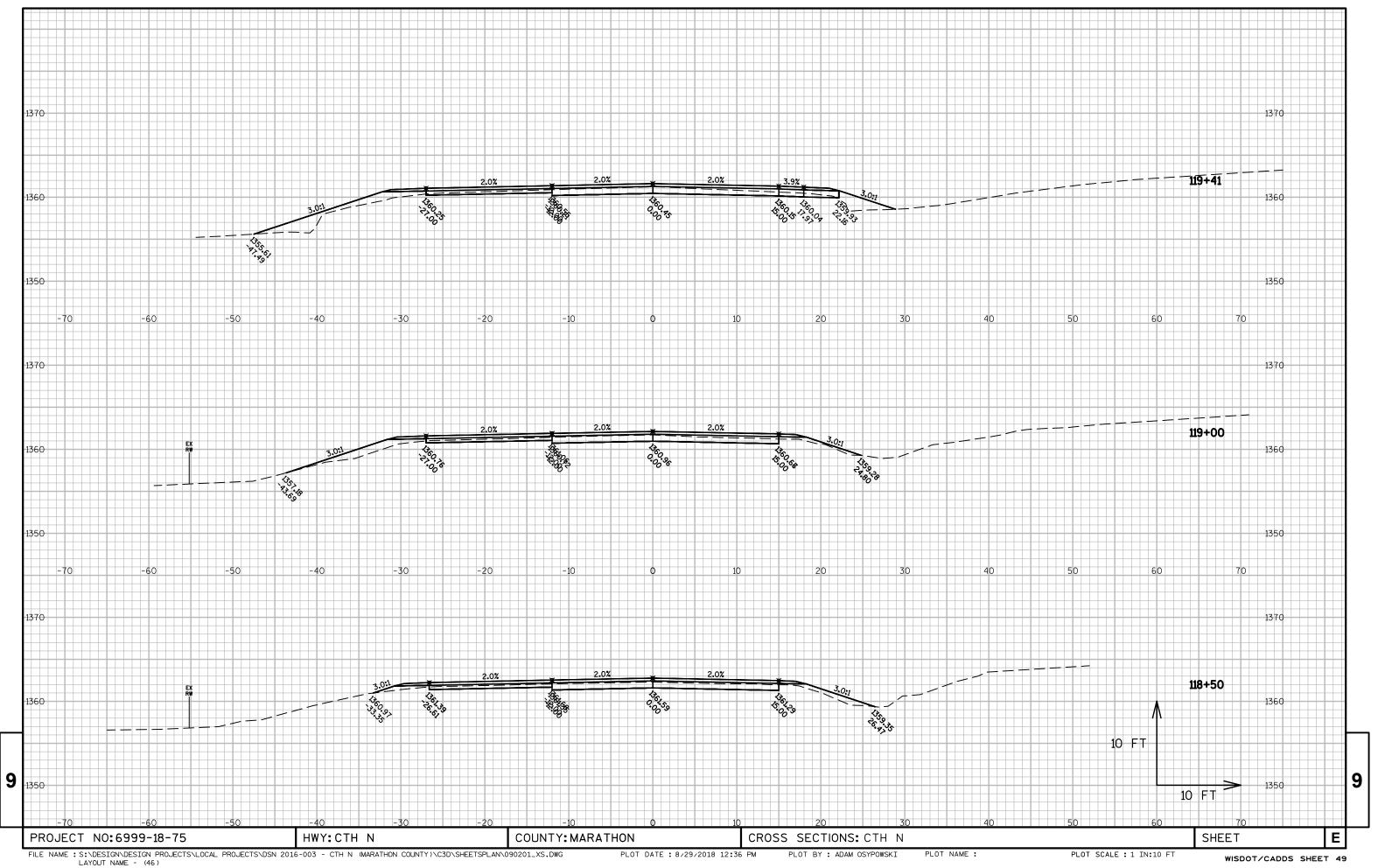


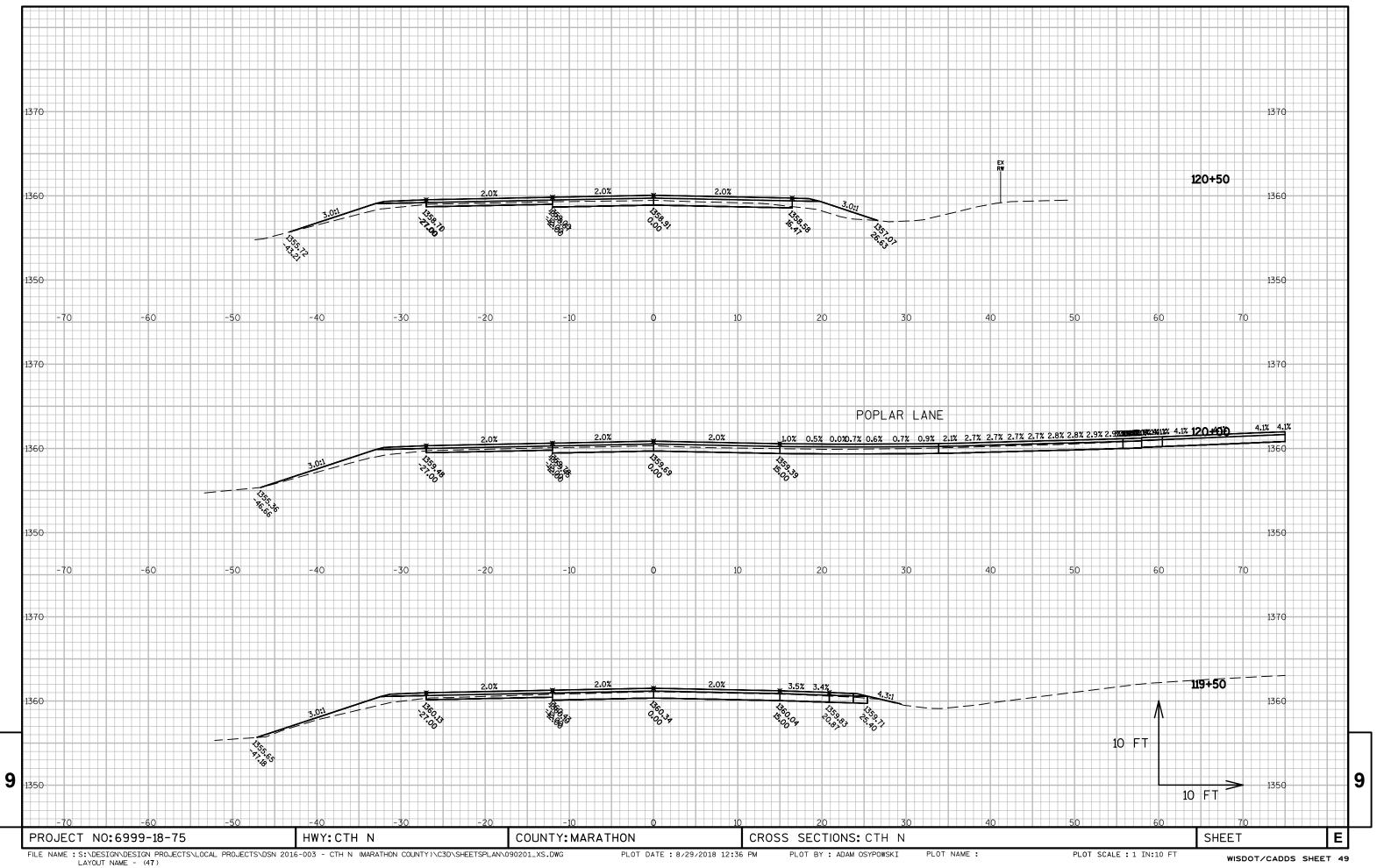


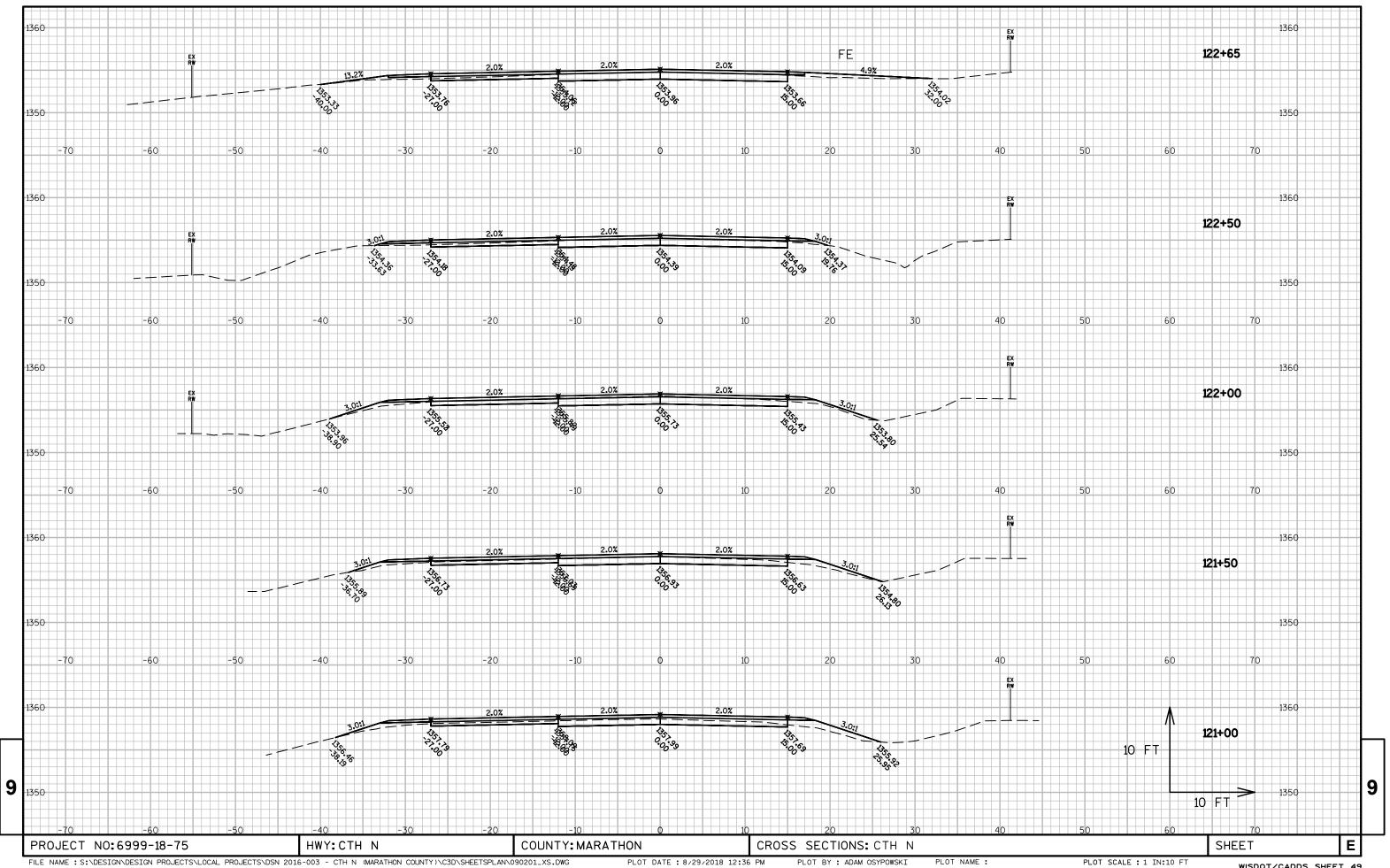


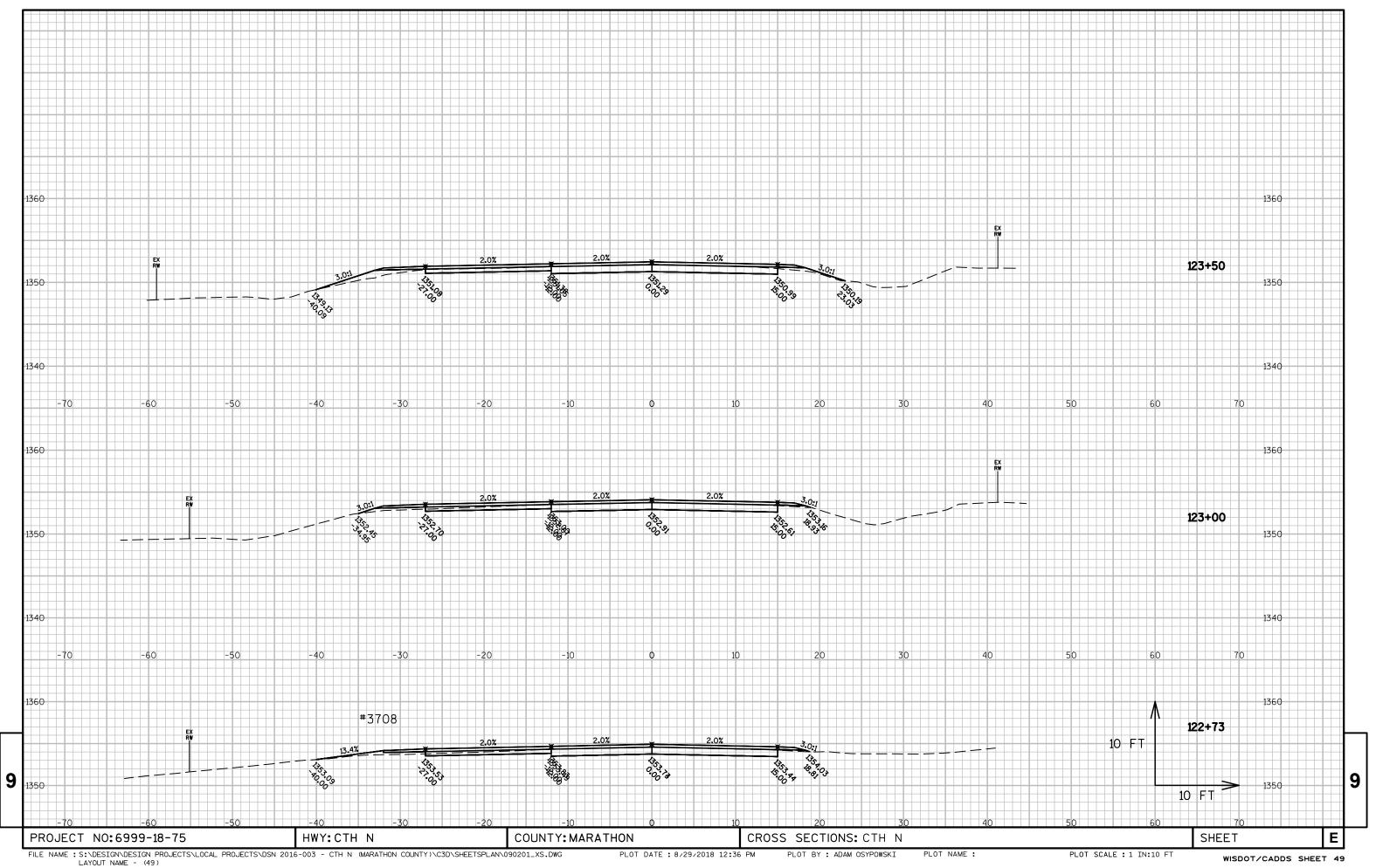


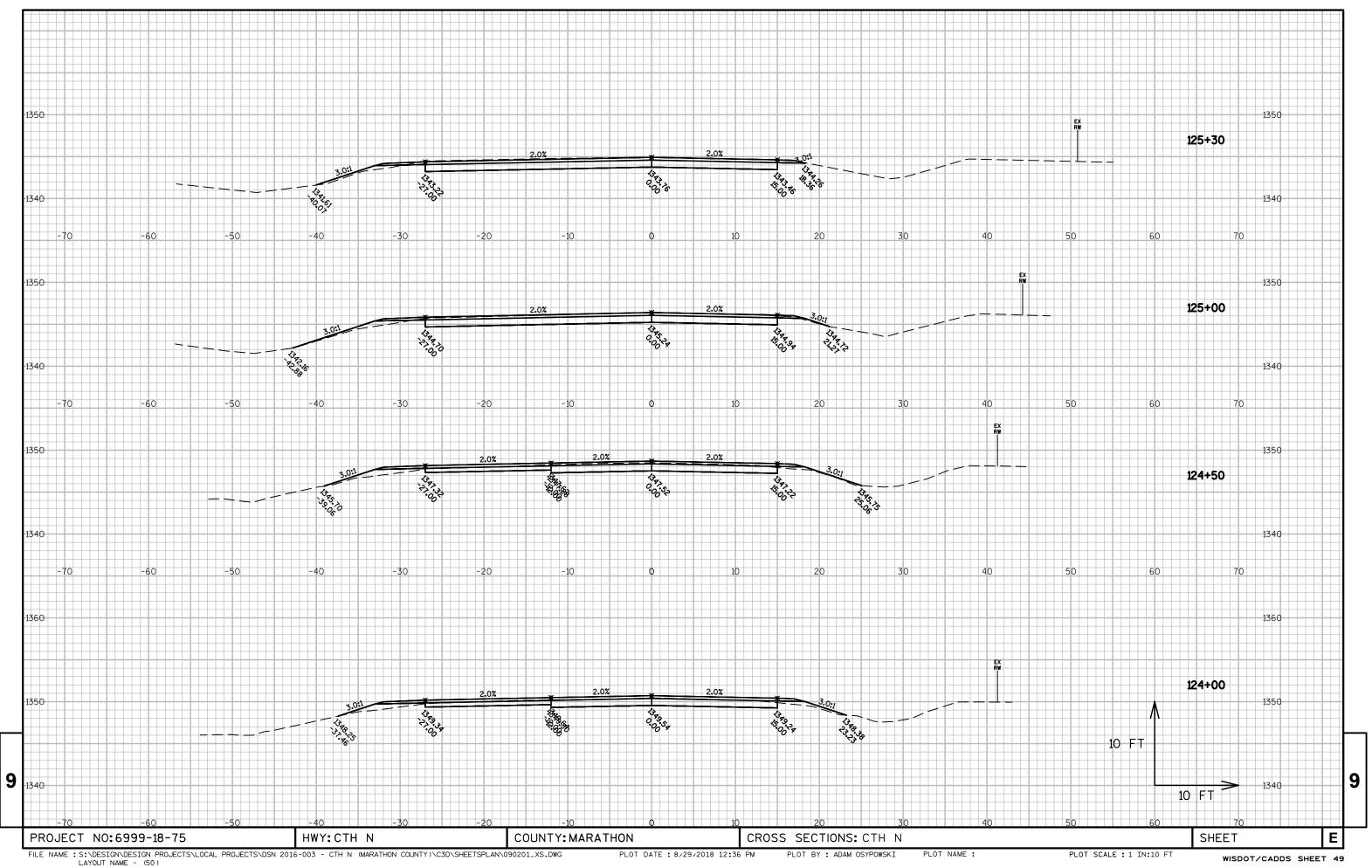












Notes



Wisconsin Department of Transportation

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