WKE SEPTEMBER 2017

ORDER OF SHEETS

Section No. 1 Typical Sections and Details Section No. 2

Estimate of Quantities Section No. 3 Section No. 3 Miscellaneous Quantities

Section No. 4 Right of Way Plat Section No. 5 Plan and Profile

Section No. 6 Standard Detail Drawings

Section No. 7 Sign Plates Structure Plans

Section No. 9 Computer Earthwork Data

Section No. 9 Cross Sections

TOTAL SHEETS = 172

= N/A

DESIGN DESIGNATION

ESALS

A.A.D.T. 2013 = 9,400 A.A.D.T. 2036 = 11,100 D.H.V. = 1030 = 59/41 = 7.0% DESIGN SPEED = 45 MPH

CONVENTIONAL SYMBOLS

COMBUSTIBLE FLUIDS

WOODED OR SHRUB AREA

MARSH AREA

PLAN PROFILE GRADE LINE CORPORATE LIMITS *!//////* ORIGINAL GROUND PROPERTY LINE __ ROCK_ MARSH OR ROCK PROFILE LOT LINE (To be noted as such) _LABEL __ _ LIMITED HIGHWAY EASEMENT SPECIAL DITCH EXISTING RIGHT OF WAY GRADE ELEVATION PROPOSED OR NEW R/W LINE SLOPE INTERCEPT CULVERT (Profile View) UTILITIES REFERENCE LINE ELECTRIC EXISTING CULVERT ---==--FIBER OPTIC PROPOSED CULVERT GAS (Box or Pipe)

SANITARY SEWER

UTILITY PEDESTAL

TELEPHONE POLE

₫ Ø

STORM SEWER

TELEPHONE

POWER POLE

WATER

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

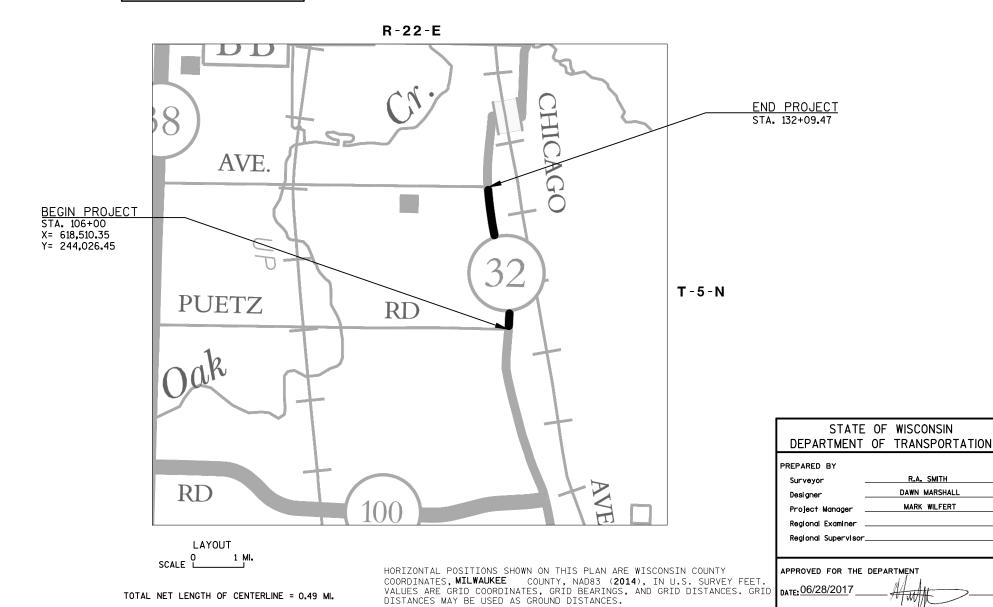
PLAN OF PROPOSED IMPROVEMENT

STH 32

PUETZ ROAD TO FOREST HILL AVE

STH 32 MILWAUKEE COUNTY

STATE PROJECT NUMBER 2375-07-70



PLOT DATE: 4/17/2017 10:23 AM

PLOT NAME :

WISDOT/CADDS SHEET 10

E

R.A. SMITH

DAWN MARSHALL

MARK WILFERT

STATE OF WISCONSIN

DATE: 06/28/2017

FEDERAL PROJECT

CONTRACT

PROJECT

WISC 2017453

STATE PROJECT

2375-07-70

FILE NAME: N:\PDS\C3D\CAD\23750700\010101_TI.DWG

TOTAL NET LENGTH OF CENTERLINE = 0.49 MI.

PLOT BY : HAYNES, RONNIE

GENERAL NOTES

NOTIFY DIGGERS HOTLINE AND AFFECTED UTILITIES PRIOR TO THE START OF WORK. ANY UTILITY WHICH IS NOT A MEMBER OF DIGGERS HOTLINE MUST BE CONTACTED SEPARATELY.

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

MAINTAIN ACCESS TO ALL DRIVEWAYS AND ALL BUSINESSES AT ALL TIMES.

TRAFFIC CONTROL LOCATIONS AS SHOWN IN THE PLAN ARE SUGGESTED LOCATIONS. EXACT LOCATIONS WILL BE DETERMINED BY THE ENGINEER IN THE FIELD.

SHOULDER PAVEMENT SHALL MATCH ADJACENT MAINLINE.

ALL SIGN LOCATIONS SHALL BE REVIEWED BY THE ENGINEER PRIOR TO INSTALLATION.

PAVED SHOULDERS SHALL BE EXPANDED TO TEN FEET.

NO TREES OR SHRUBS SHALL BE REMOVED UNLESS DESIGNATED FOR REMOVAL BY THE ENGINEER.

PROTECT FROM DAMAGE AND COMPLETE SHOULDER WORK AROUND ANY EXISTING SIGNS OR MAILBOXES THAT ARE TO REMAIN IN PLACE.

RESTORATION OF EXPOSED SLOPES AND DITCHES SHALL TAKE PLACE WITHIN 7 CALENDAR DAYS AFTER FINISHED GRADING IS COMPLETE

ALL DISTURBED AREAS WITHIN THE RIGHT-OF-WAY SHALL BE TOPSOILED, FERTILIZED, SEEDED, AND MULCHED AS DIRECTED BY THE ENGINEER

THE LOCATIONS OF EROSION CONTROL ITEMS SHALL BE DETERMINED BY THE ENGINEER. ALL EROSION CONTROL MEASURES SHALL BE MAINTAINED UNTIL SUCH TIME AS THE ENGINEER DETERMINES THE MEASURE IS NO LONGER NECESSARY.

ALL CURB AND GUTTER ELEVATIONS PROVIDED ARE AT FLANGE LINE

TEMPORARY STORAGE OF ANY MATERIAL SHALL NOT BE PERMITTED IN WETLANDS. STOCKPILED SOIL SHALL BE PROTECTED AGAINST EROSION. IF STOCKPILED MATERIAL IS LEFT FOR MORE THAN FOURTEEN (14) CALENDAR DAYS, SEED THE STOCKPILE WITH TEMPORARY SEED.

EROSION CONTROL BMP'S, SUCH AS SILT FENCE, DITCH CHECKS AND OTHER EROSION CONTROL DEVICES, ARE AT SUGGESTED LOCATIONS. THE ACTUAL LOCATIONS WILL BE DETERMINED BY THE CONTRACTORS ECIP AND BY THE ENGINEER. EROSION CONTROL BMP'S SHALL BE MAINTAINED UNTIL PERMANENT VEGETATION IS ESTABLISHED OR UNTIL THE ENGINEER DETERMINES THAT THE BMP IS NO LONGER REQUIRED.

CONTRACTOR MUST CONTACT THE PROJECT ENGINEER AND SEWRPC (JOHN WASHBURN) AT LEAST TWO WEEKS PRIOR TO WORK NEAR ANY SECTION CORNER MONUMENT.

STANDARD ABBREVIATIONS

ABUT	Abutment	POT	Point on Tangent
AH	Ahead	R	Radius
AADT	Annual Average Daily Traffic	RL or R/L	Reference Line
BK	Back	RHF	Right-Hand Forward
CL or C/L	Center Line	R/W	Right-of-Way
Δ	Central Angle or Delta	SALV	Salvaged
CH	Chord	SAN S	Sanitary Sewer
D	Degree of Curve	SF	Square Feet
DHV	Design Hour Volume	SY	Square Yard
DIA	Diameter	STD	Standard
X	East Grid Coordinate	SDD	Standard Detail Drawings
EBS	Excavation Below Subgrade	SSD	Stopping Sight Distance
FL or F/L	Flow Line	SE	Superelevation
CWT	Hundredweight	SL or S/L	Survey Line
IN DIA	Inch Diameter	T	Tangent
ID	Inside Diameter	TEL	Telephone
I	Intersection Angle	TLE	Temporary Limited Easement
INV	Invert	T	Ton
LHF	Left-Hand Forward	T	Trucks (percent of)
LC	Long Chord of Curve	UG	Underground
LS	Lump Sum	VAR	Variable
ML or M/L	Match Line	V	Velocity or Design Speed
NC	Normal Crown	VC	Vertical Curve
Y	North Grid Coordinate	VPCC	Vertical Point of Compound Curve
PAVT	Pavement	VPC	Vertical Point of Curve
PCC	Point of Compound Curve	VPI	Vertical Point of Intersection
PC	Point of Curvature	VPRC	Vertical Point of Reverse Curve
PI	Point of Intersection	VPT	Vertical Point of Tangency
PRC	Point of Reverse Curvature	W	Water

WM

Water Main

Water Valve



www.DiggersHotline.com

PROJECT NO: 2375-07-70 HWY: STH 32 COUNTY: MILWAUKEE GENERAL NOTES AND UTILITY CONTACTS SHEET: E

PT

POC

Point of Tangency

Point On Curve

FILE NAME : ______ PLOT DATE : _____ PLOT BY : _____ PLOT NAME : _____ PLOT NAME : _____ PLOT SCALE : 1:1

UTILITY CONTACTS

Mark Eder

AT&T Wisconsin - Communication Line

2005 Pewaukee Rd

Waukesha, WI 53188-2443

(262) 896-7434 me1754@att.com

Steven Cramer

Time Warner Cable - Communication Line

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(414) 277-4045

wis.engineering@twcable.com

Brian Johnston

City of Oak Creek - Road Facility

8040 S. 6th STREET Oak Creek, WI 53154 (414) 766-7038

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Brian Johnston

City of Oak Creek - Street Lighting

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Micki Klappa-Sullivan

Milwaukee Metropolitan Sewerage District - Sewer

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Milwaukee, WI 53204-1446

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Ron Pritzlaff

City of Oak Creek Sewer & Water Utility - Sewer

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rpritzlaff@water.oak-creek.wi.us

Ron Pritzlaff

City of Oak Creek Sewer & Water Utility - Water

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rpritzlaff@water.oak-creek.wi.us

Richard Trgovec

Midwest Fiber Networks LLC - Communication Line

6070 North Flint Rd Glendale, WI 53209 (414) 459-3554

rtrgovec@midwestfibernetworks.com

Elizabeth Lloyd-Weis

Wisconsin Department of Transportation - Wisconsin Signal

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Waukesha, WI 53187-0798

(262) 521-4404

Elizabeth.Lloyd-Weis@dot.wi.gov

John Washburn

Southeastern Wisconsin Regional Planning Commission

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P.O. Box 1607

Waukesha, WI 53187-1607 Phone (262) 953-4295 Fax (262) 547-1103 jwashburn@sewrpc.org LaTroy Brumfield

We Energies - Electricity

333 West Everett St, Room A299

Milwaukee, WI 53203

(414) 221-5617

LaTroy.Brumfield@we-energies.com

LaTroy Brumfield

We Energies - Gas/Petroleum

333 West Everett St, Room A299

Milwaukee, WI 53203

(414) 221-5617

LaTroy.Brumfield@we-energies.com

DNR Contact

Kristina Betzold

Environmental Analysis and Review Specialist Wisconsin Department of Natural Resources

2300 N Dr. Martin Luther King Drive

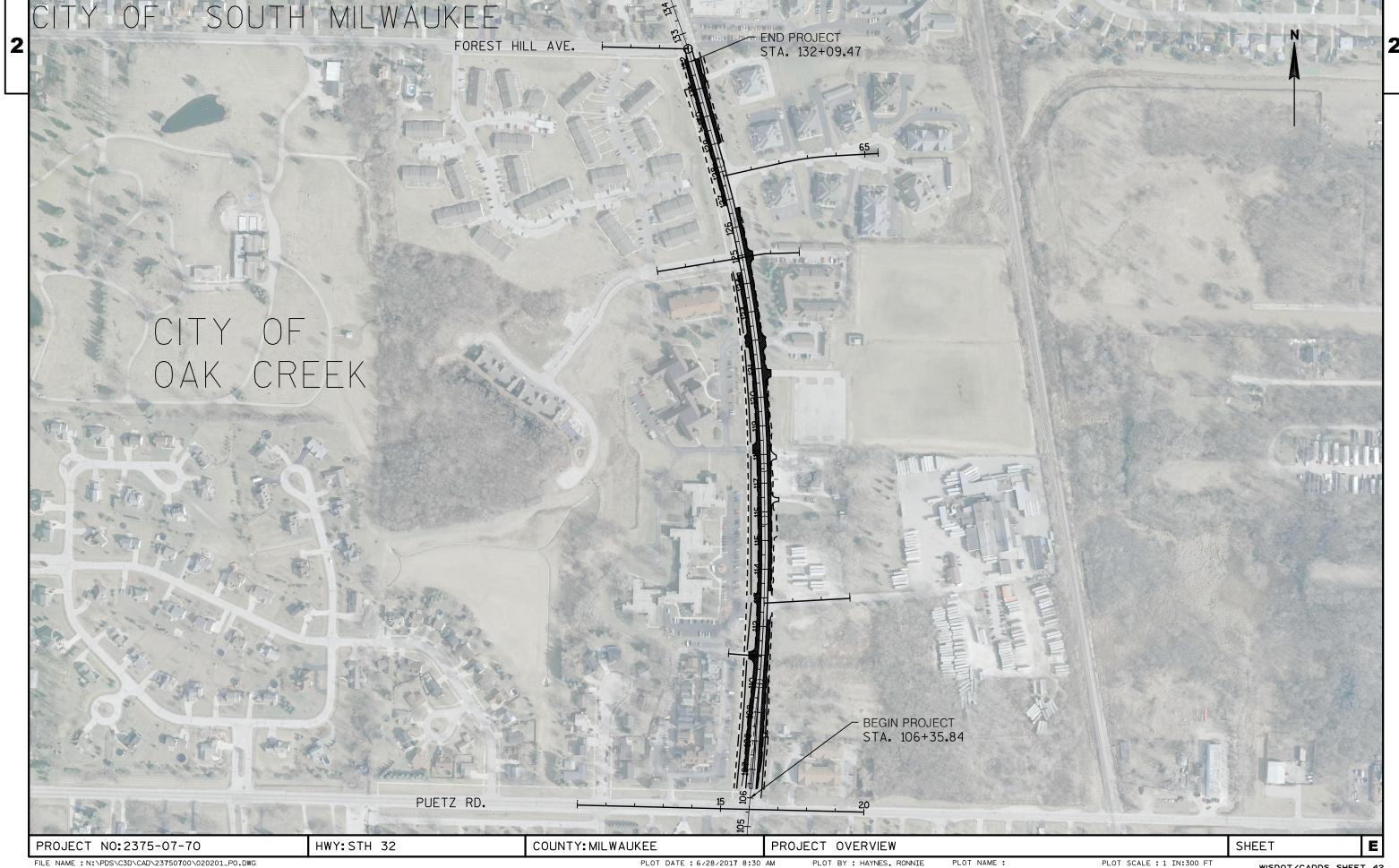
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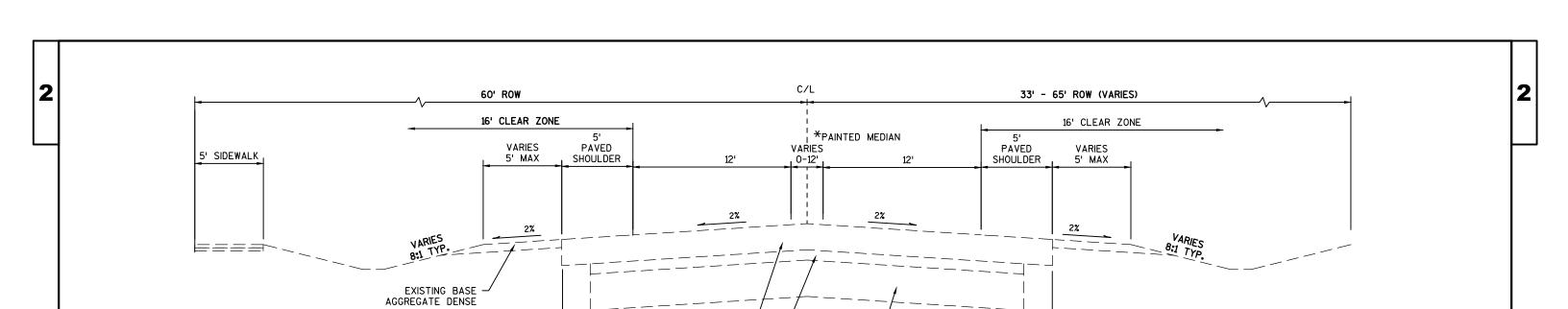
(414) 507-4946

kristina.betzold@wisconsin.gov

PROJECT NO: 2375-07-70 HWY: STH 32 COUNTY: MILWAUKEE GENERAL NOTES AND UTILITY CONTACTS SHEET: E

FILE NAME : _____ PLOT DATE : ____ PLOT BY : ____ PLOT NAME : ____ PLOT SCALE : 1:1



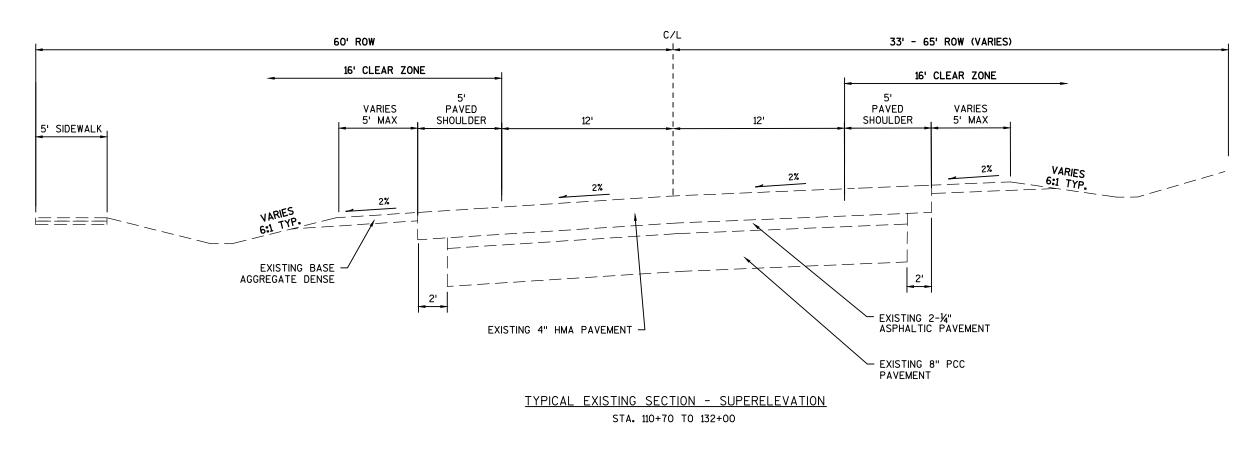


EXISTING 4" HMA PAVEMENT

EXISTING 2-¼" ASPHALTIC PAVEMENT

TYPICAL EXISTING SECTION STA. 106+35.84 TO 110+70 *PAINTED MEDIAN STA. 106+33 TO 110+33

EXISTING 8" PCC PAVEMENT



HWY:STH 32

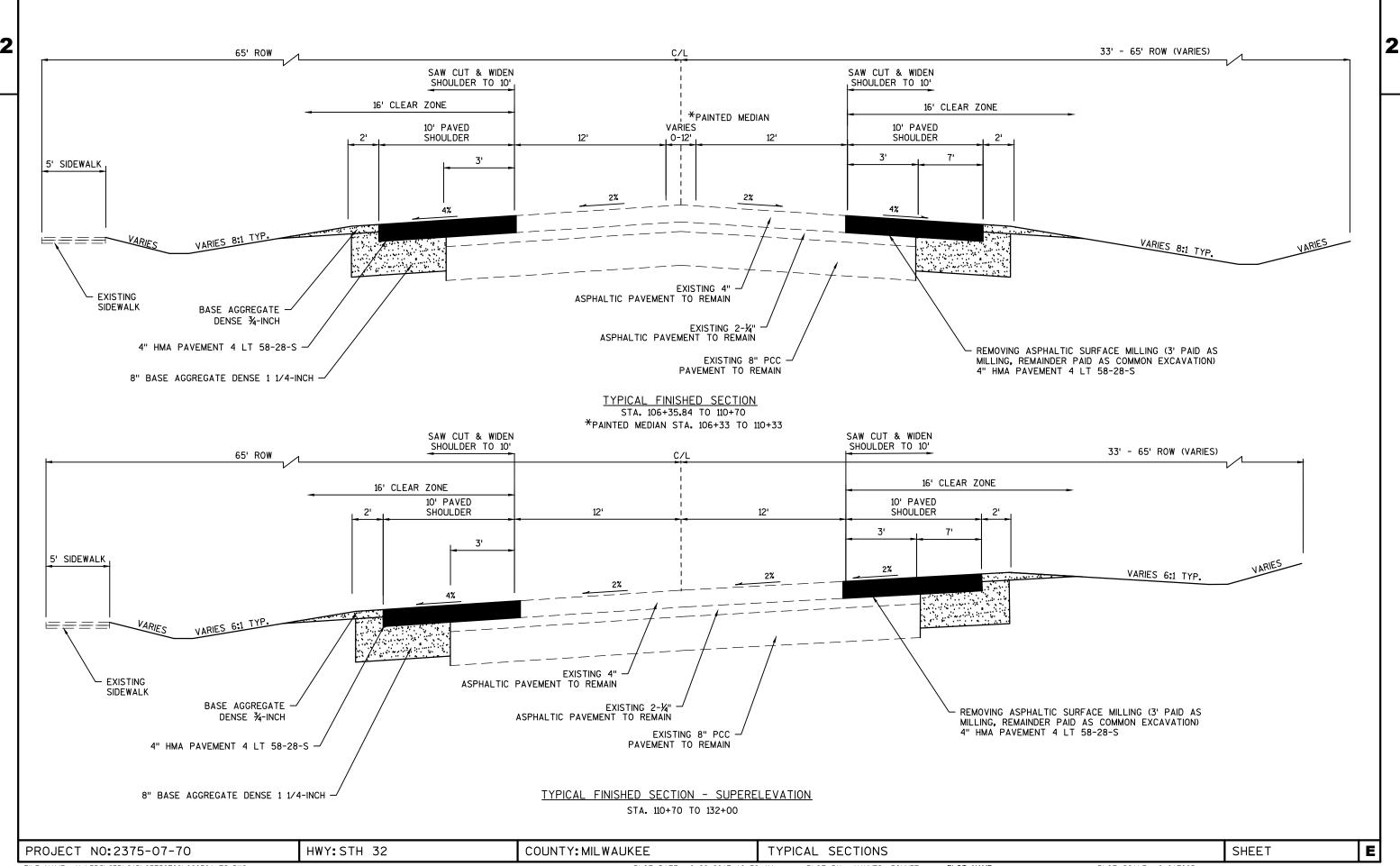
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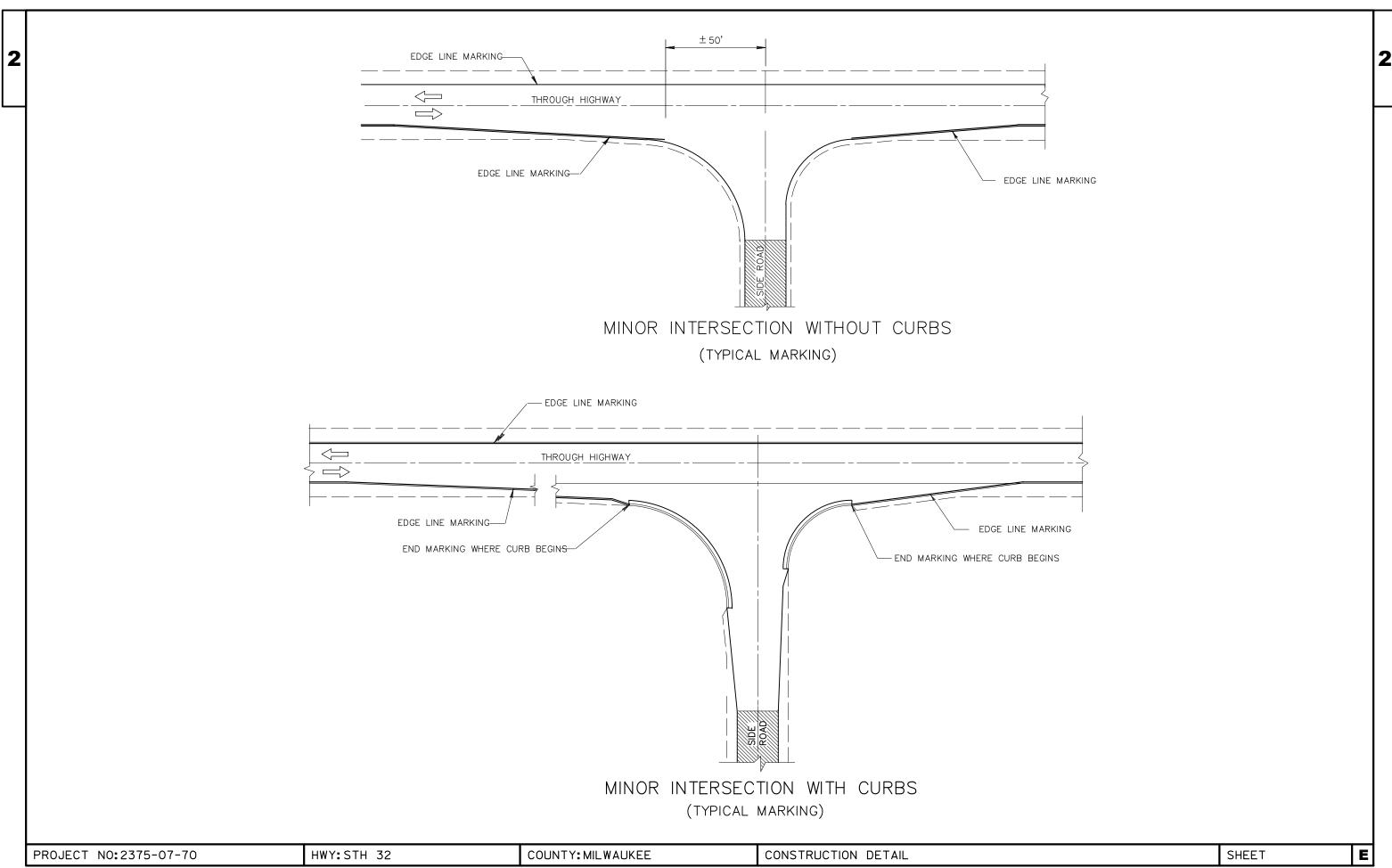
COUNTY: MILWAUKEE

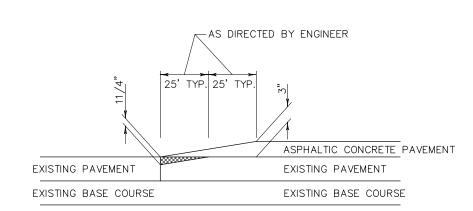
TYPICAL SECTIONS

E

SHEET









AS DIRECTED BY ENGINEER

ASPHALTIC CONCRETE PAVEMENT

EXISTING PAVEMENT

EXISTING BASE COURSE

BUTT JOINT DETAIL DRIVEWAYS

EXISTING PAVEMENT

EXISTING BASE COURSE

REMOVING ASPHALT SURFACE, BUTT JOINTS

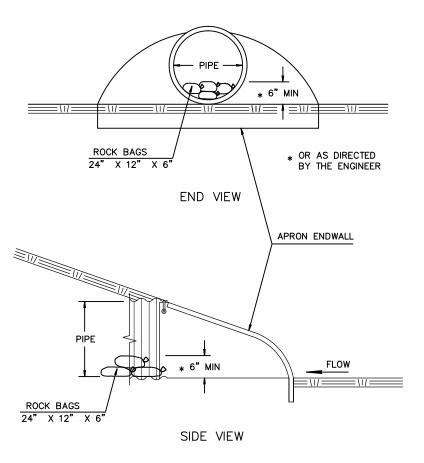
BUTT JOINT DETAIL SIDEROADS

PROJECT NO:2375-07-70 HWY:STH 32 COUNTY:MILWAUKEE CONSTRUCTION DETAIL SHEET **E**

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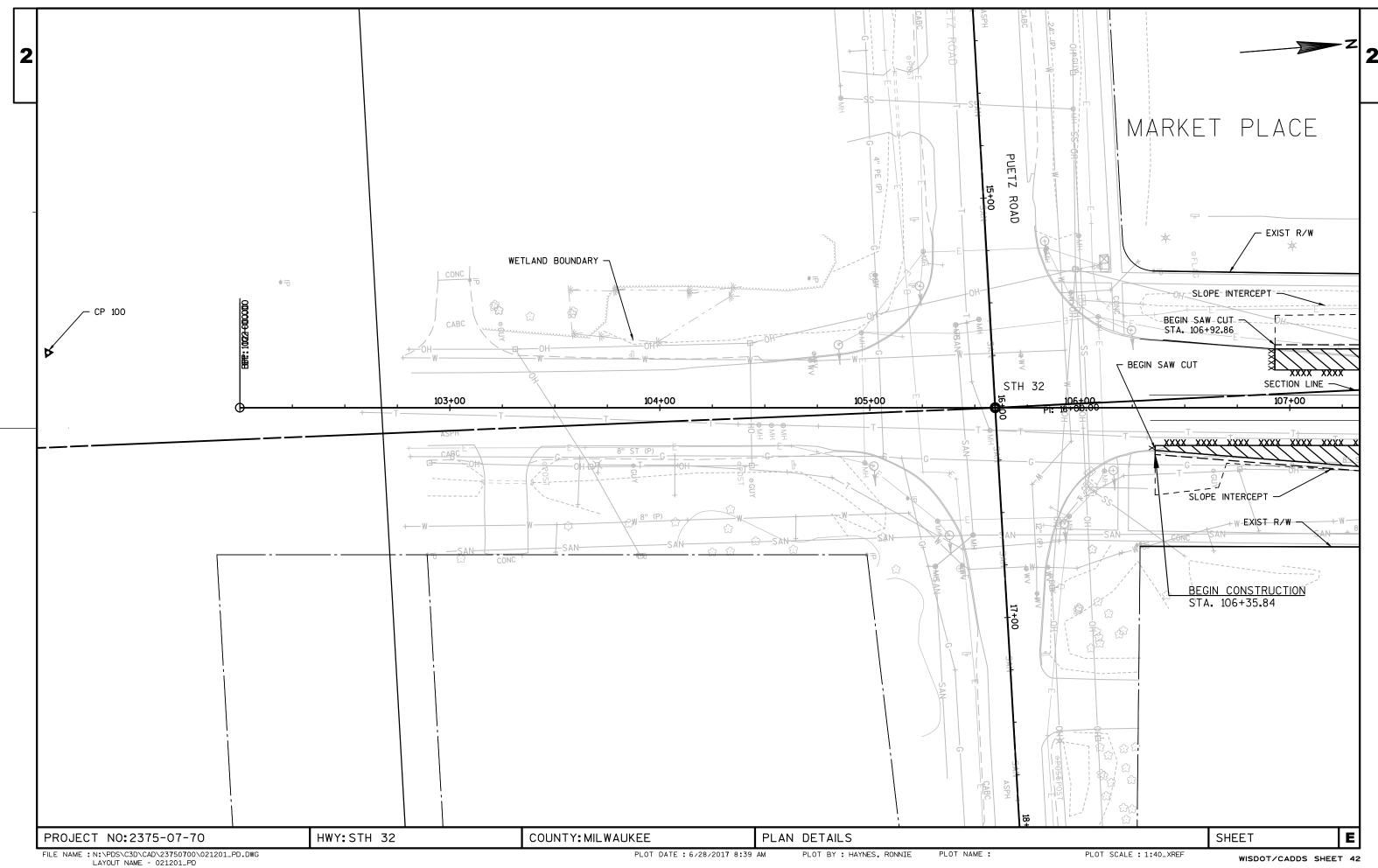
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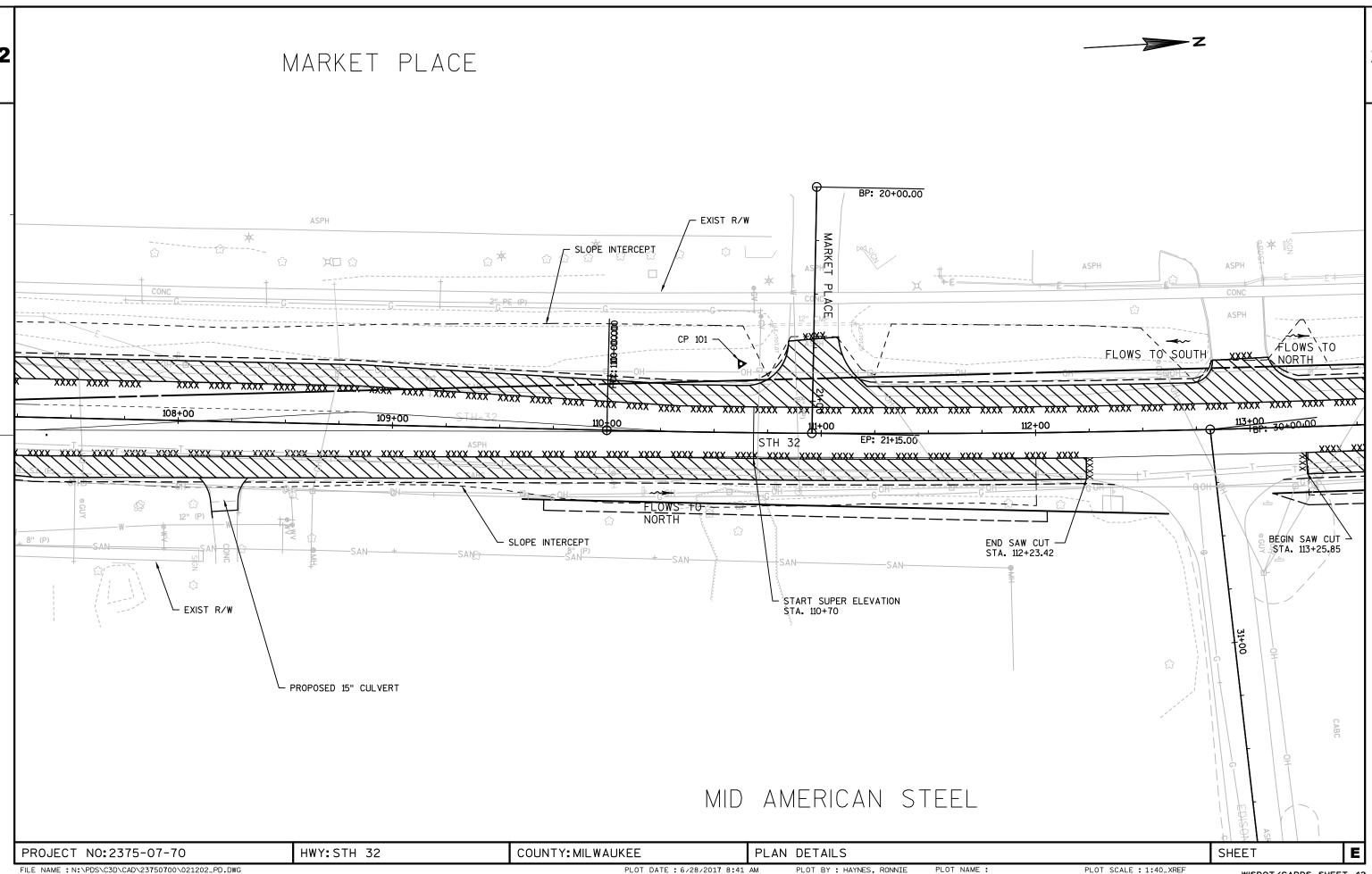
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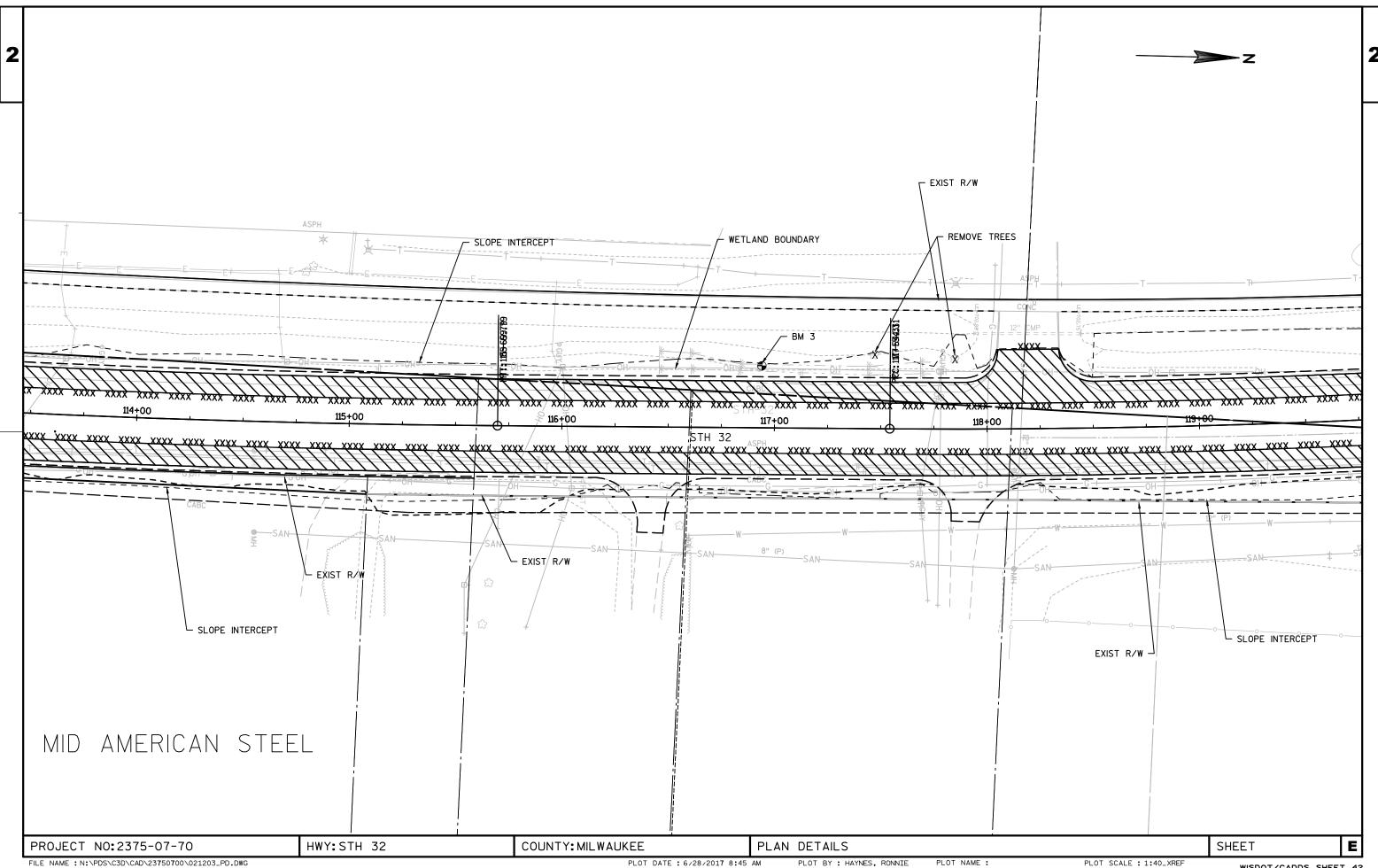


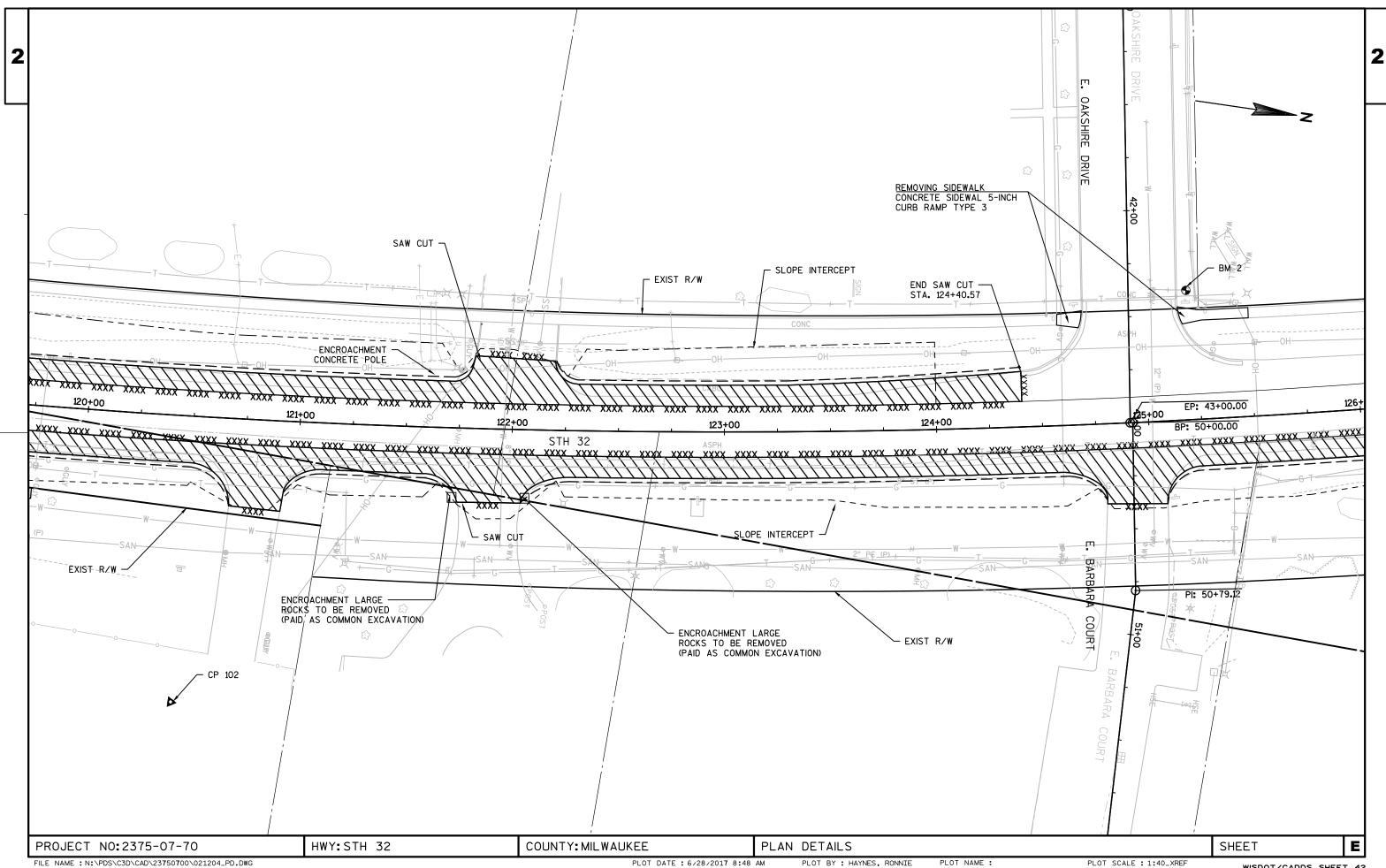
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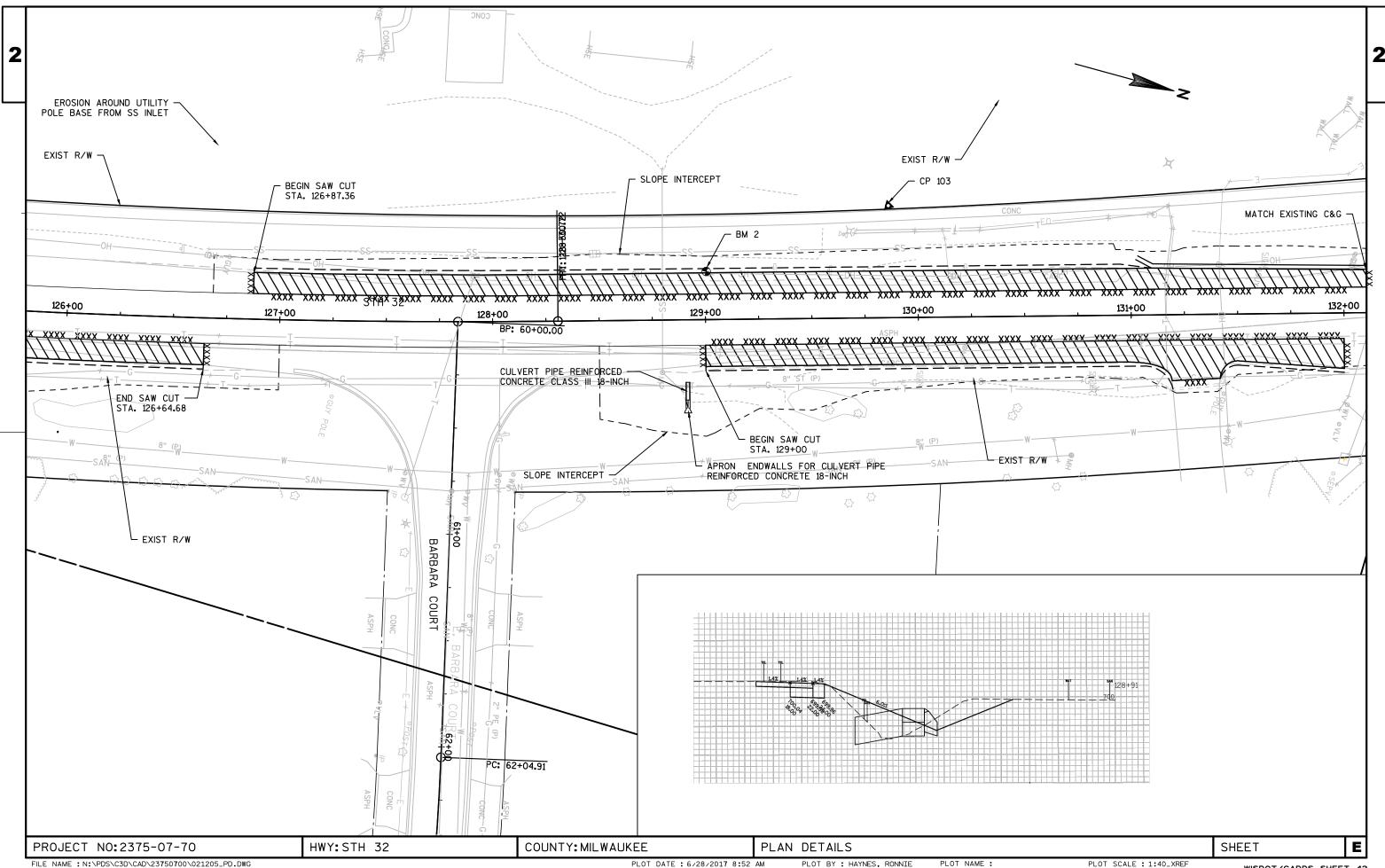
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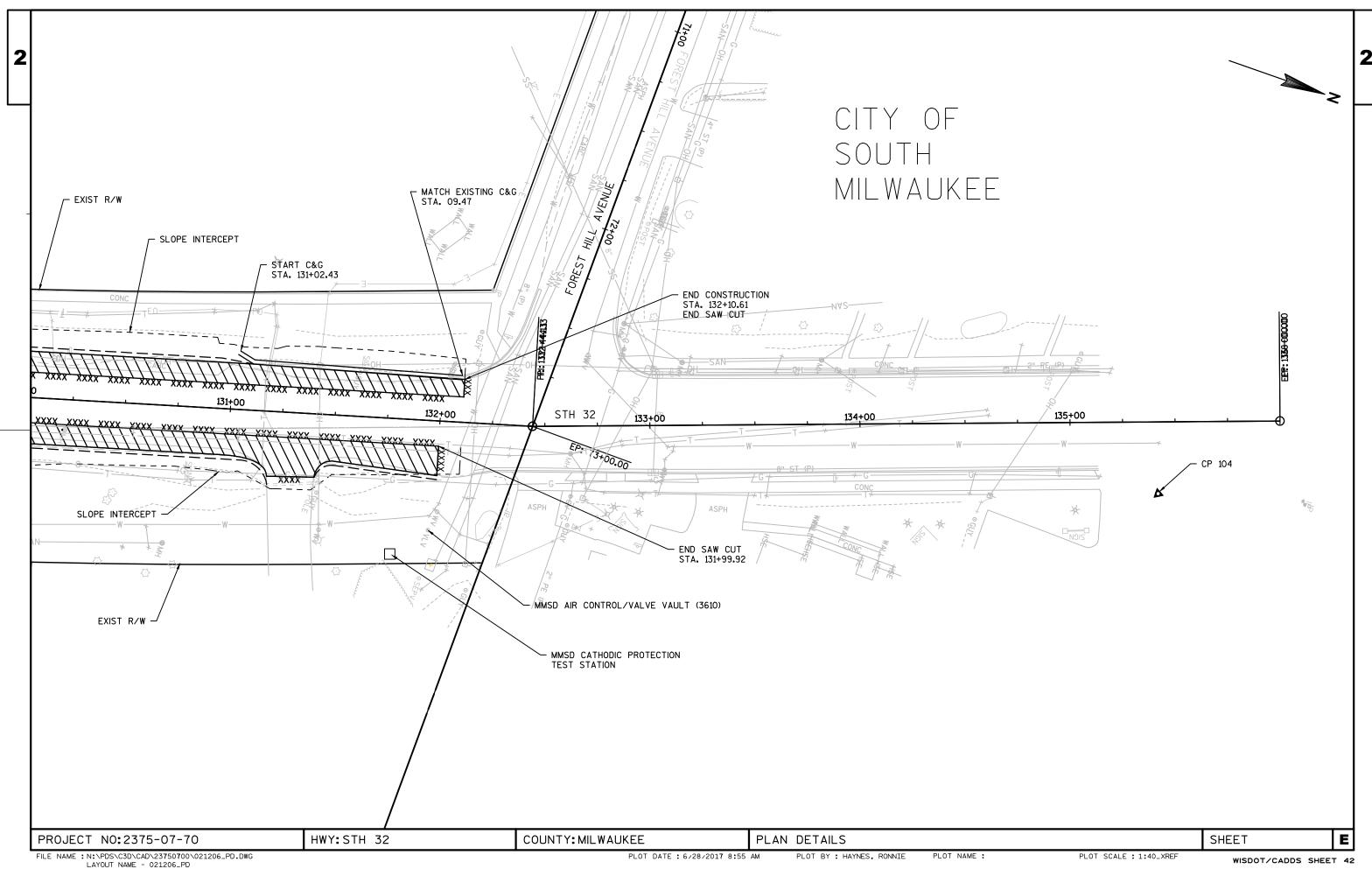


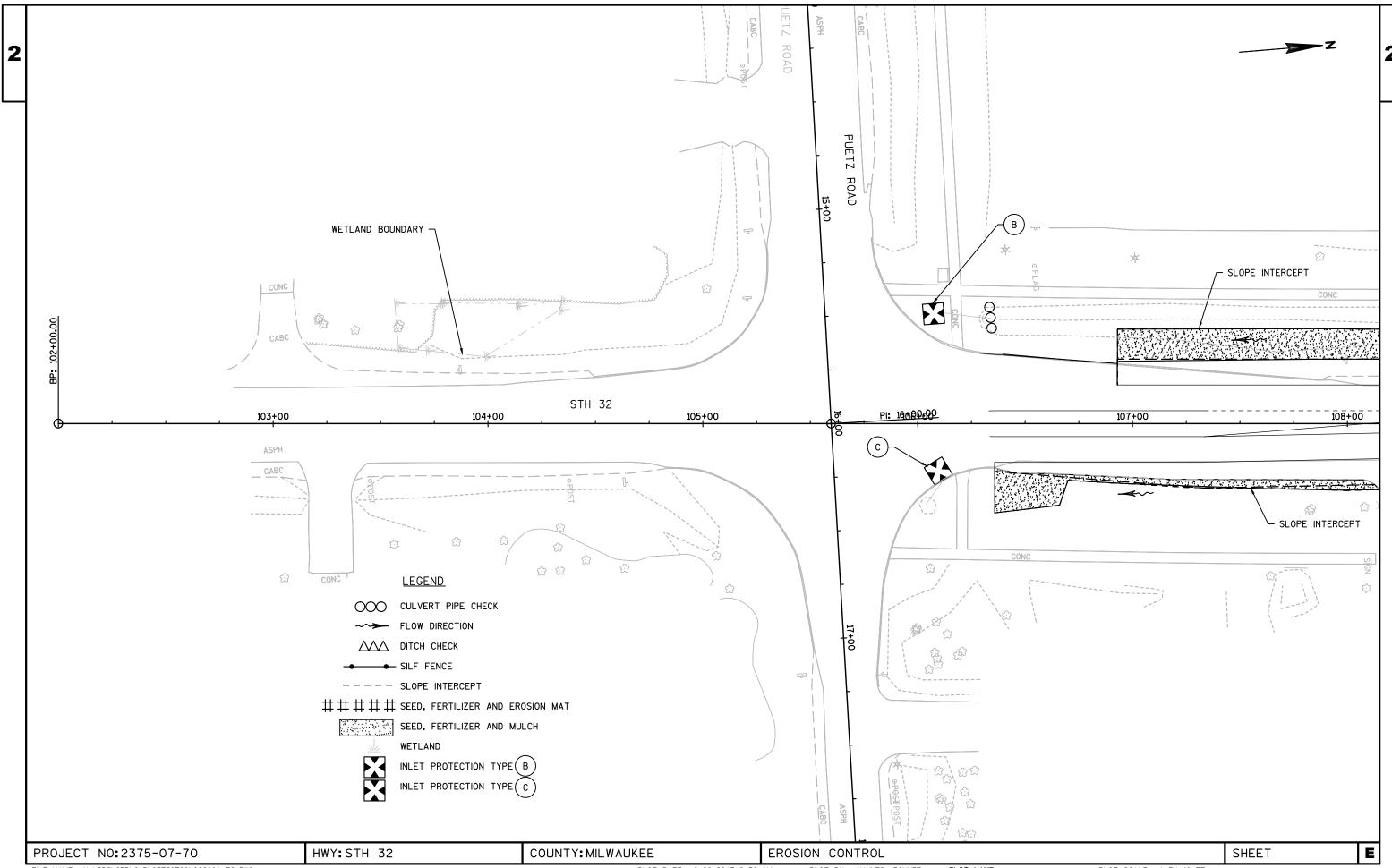


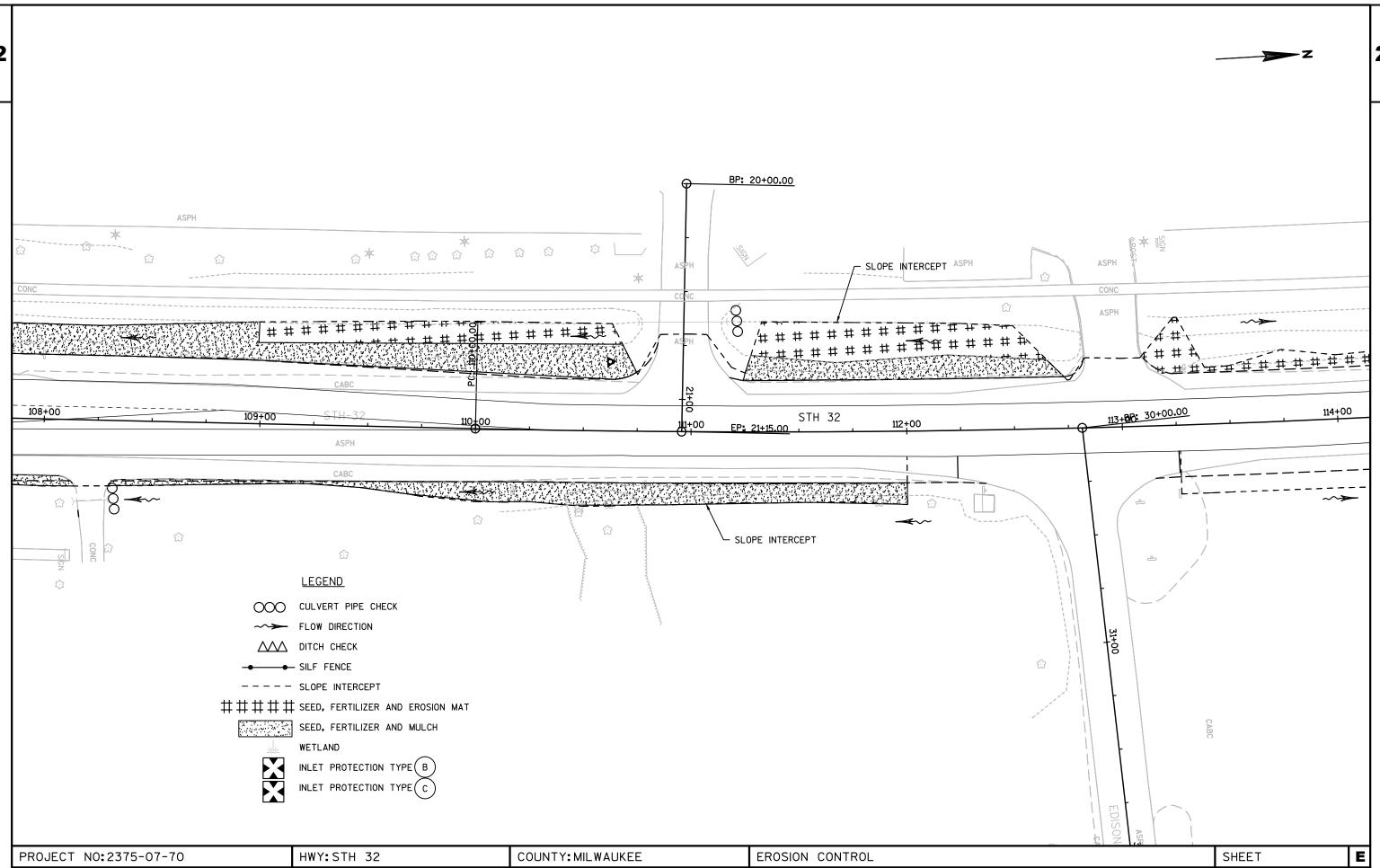


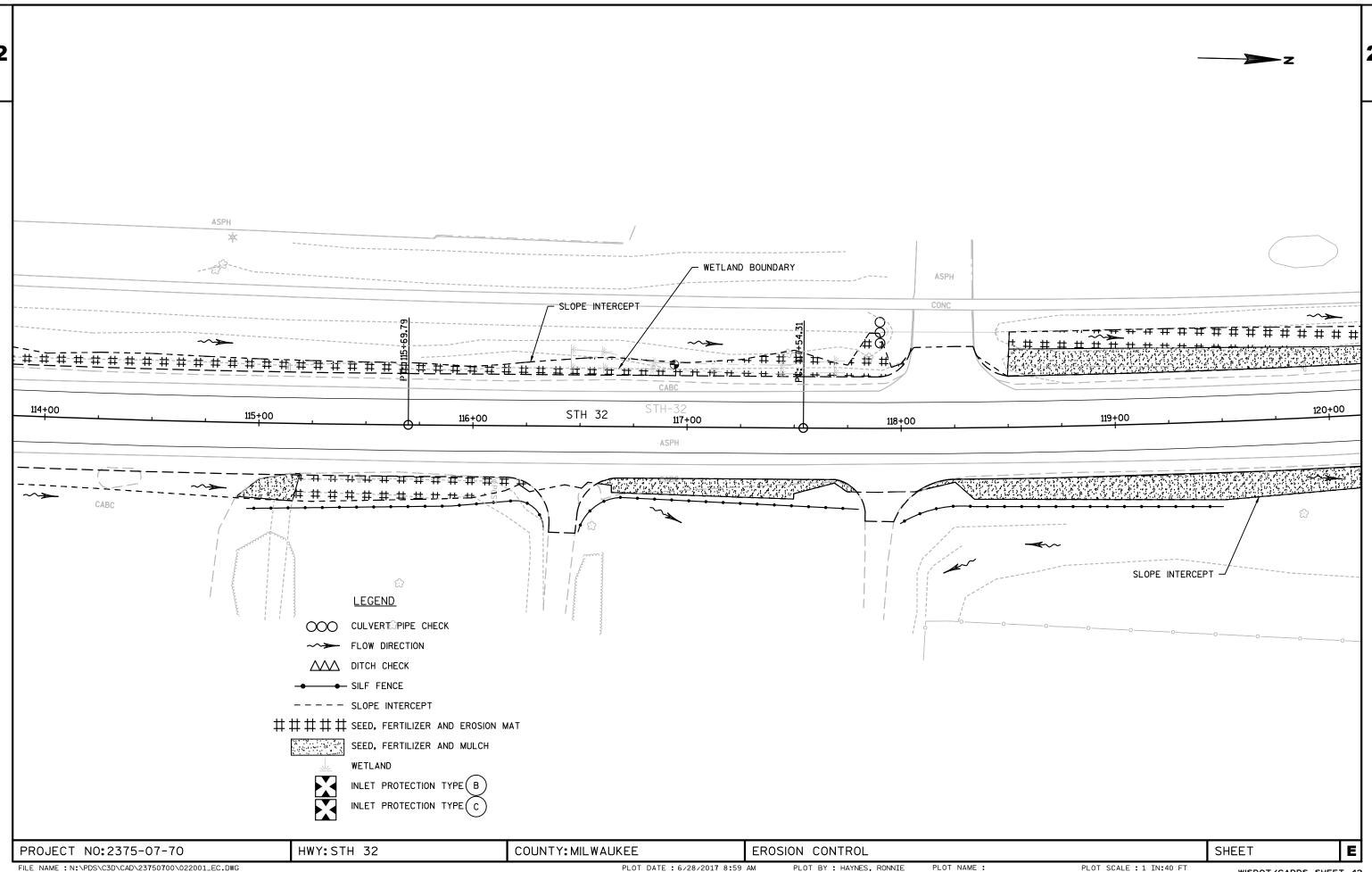


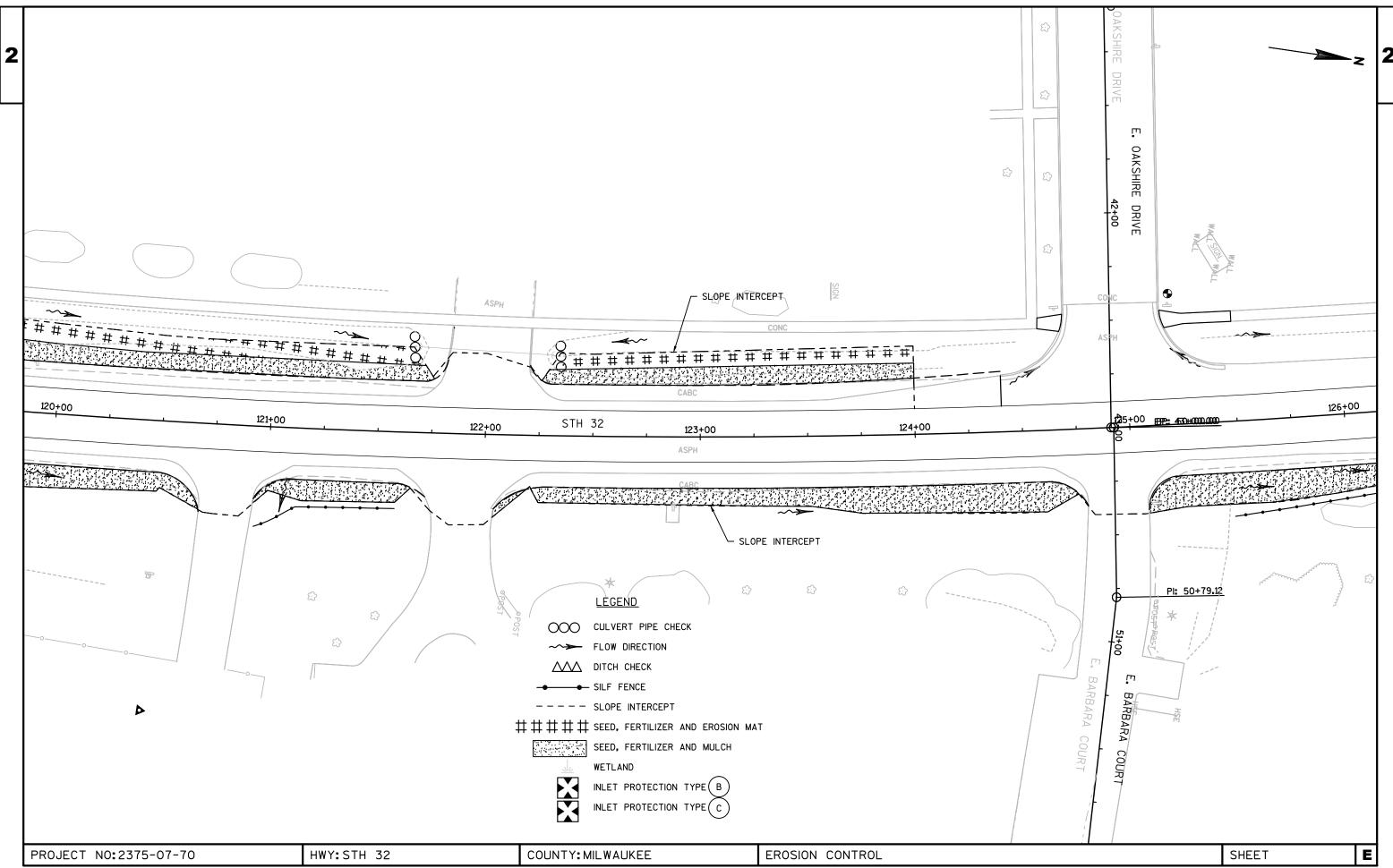




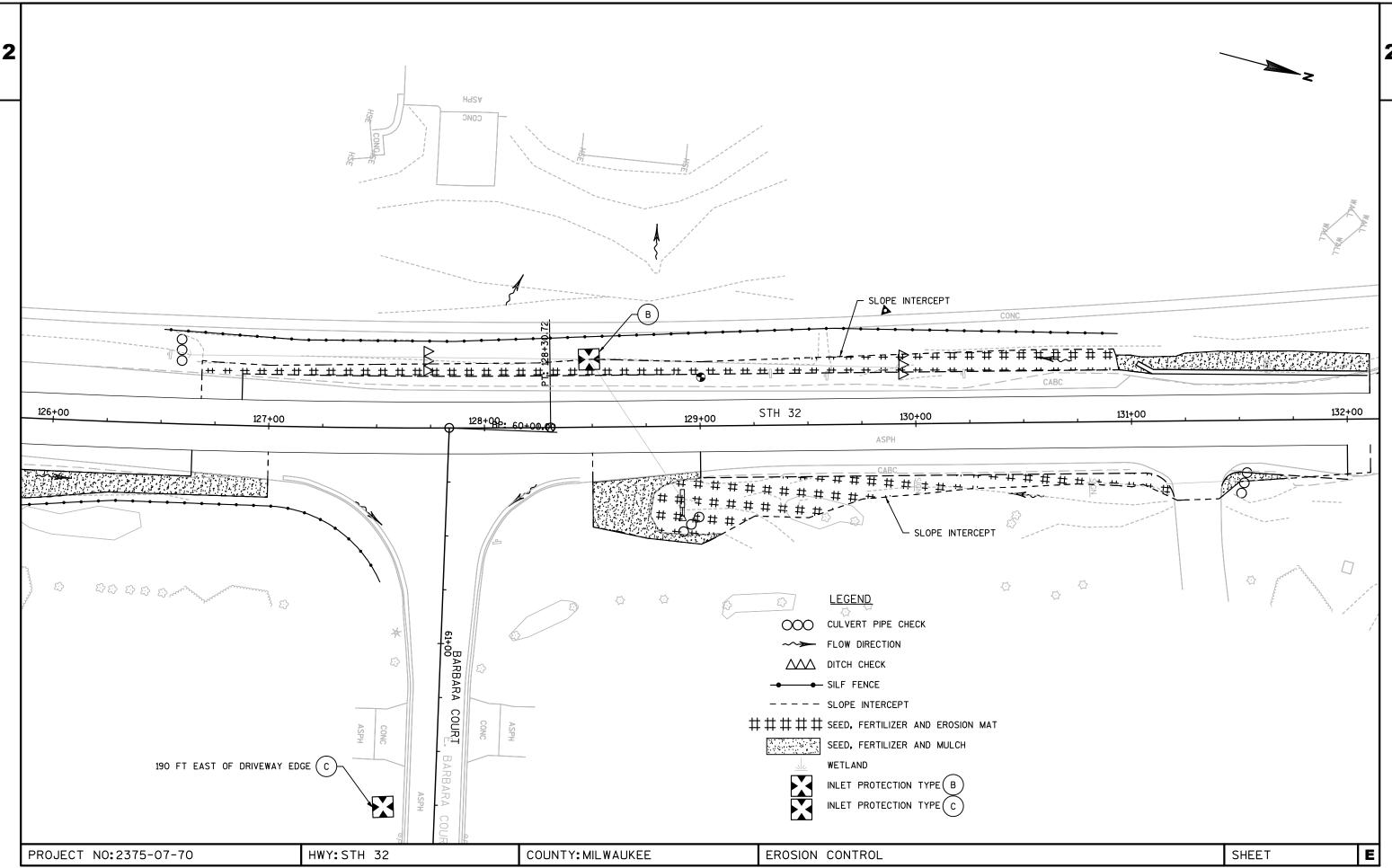


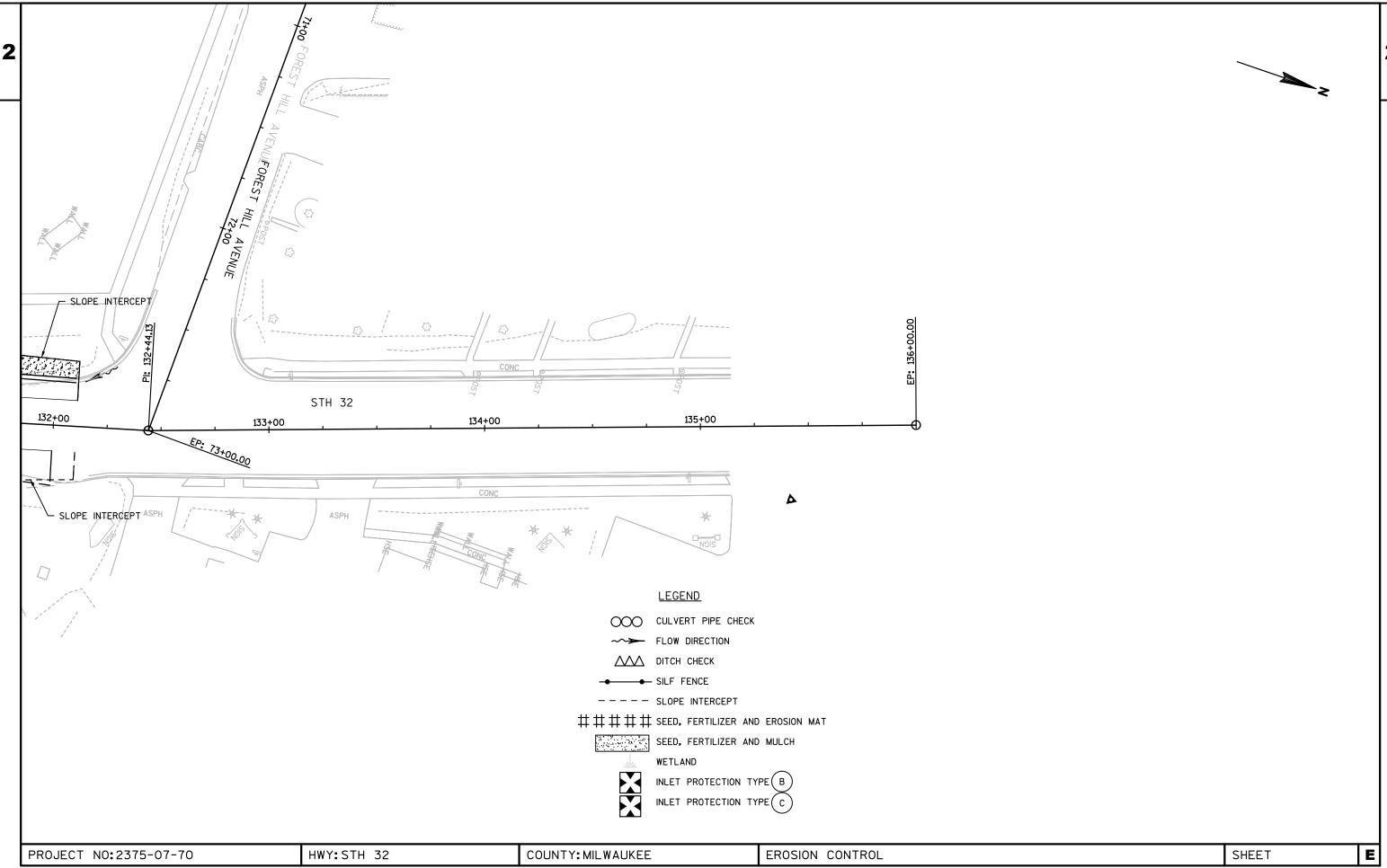


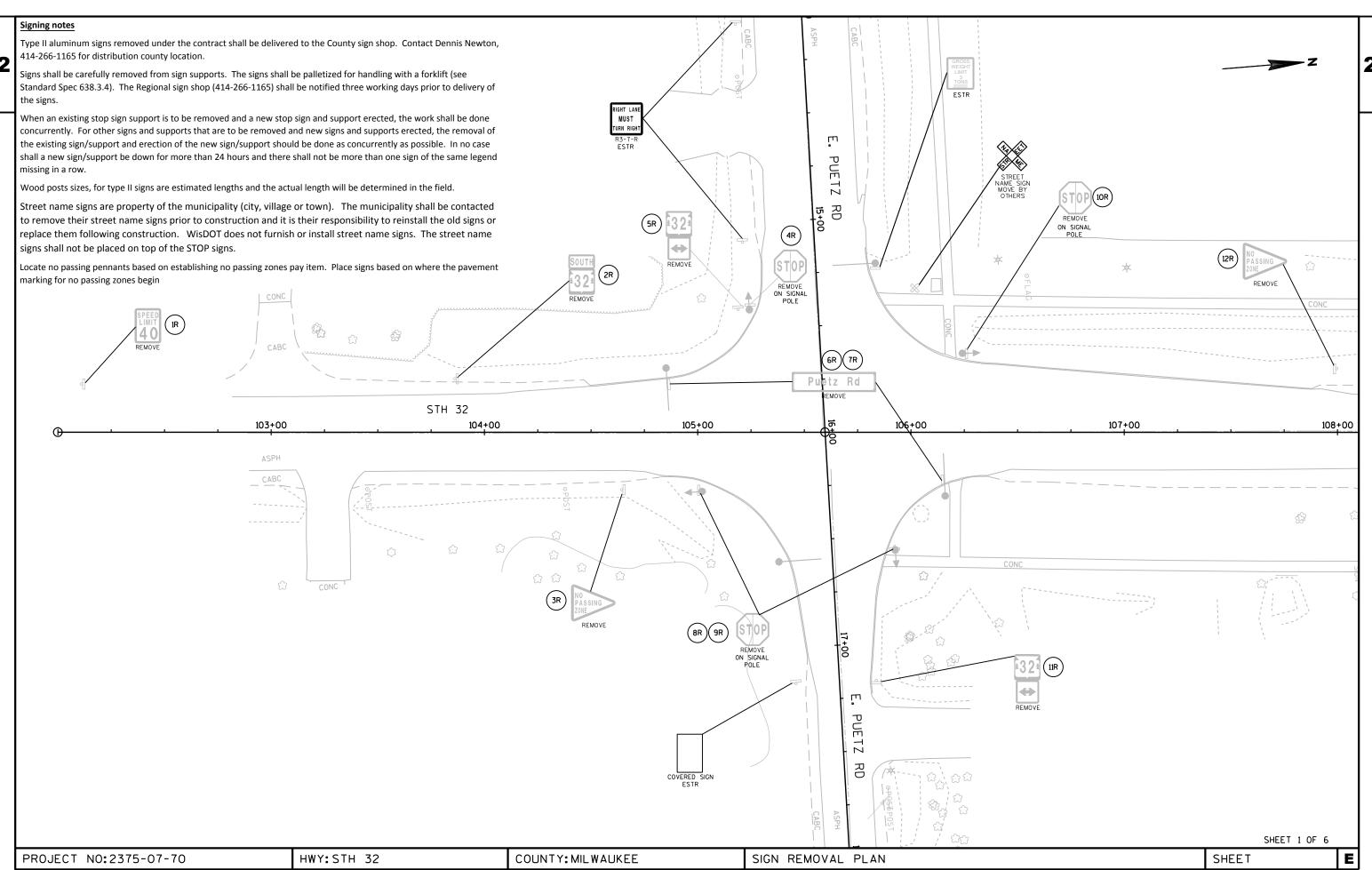


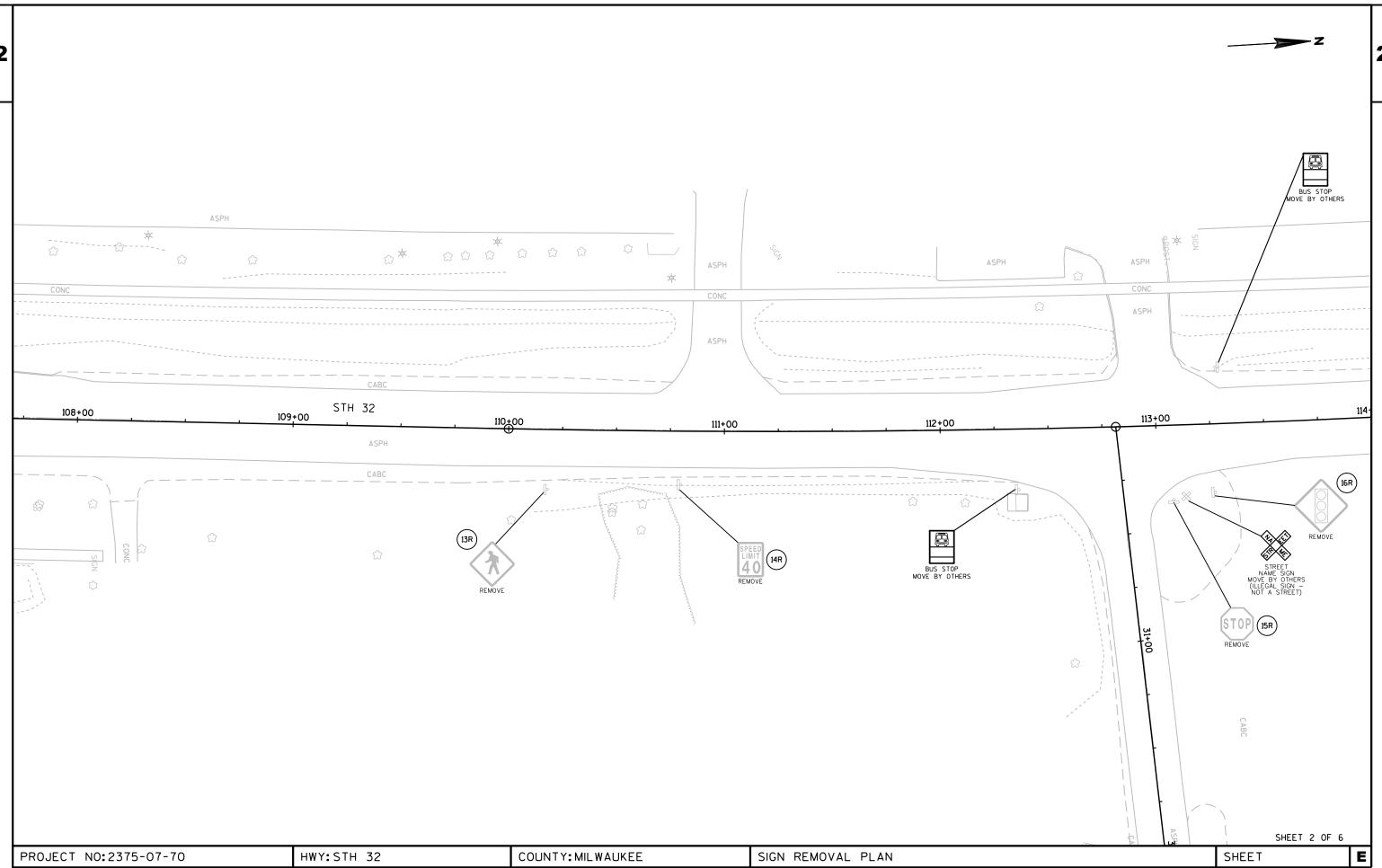


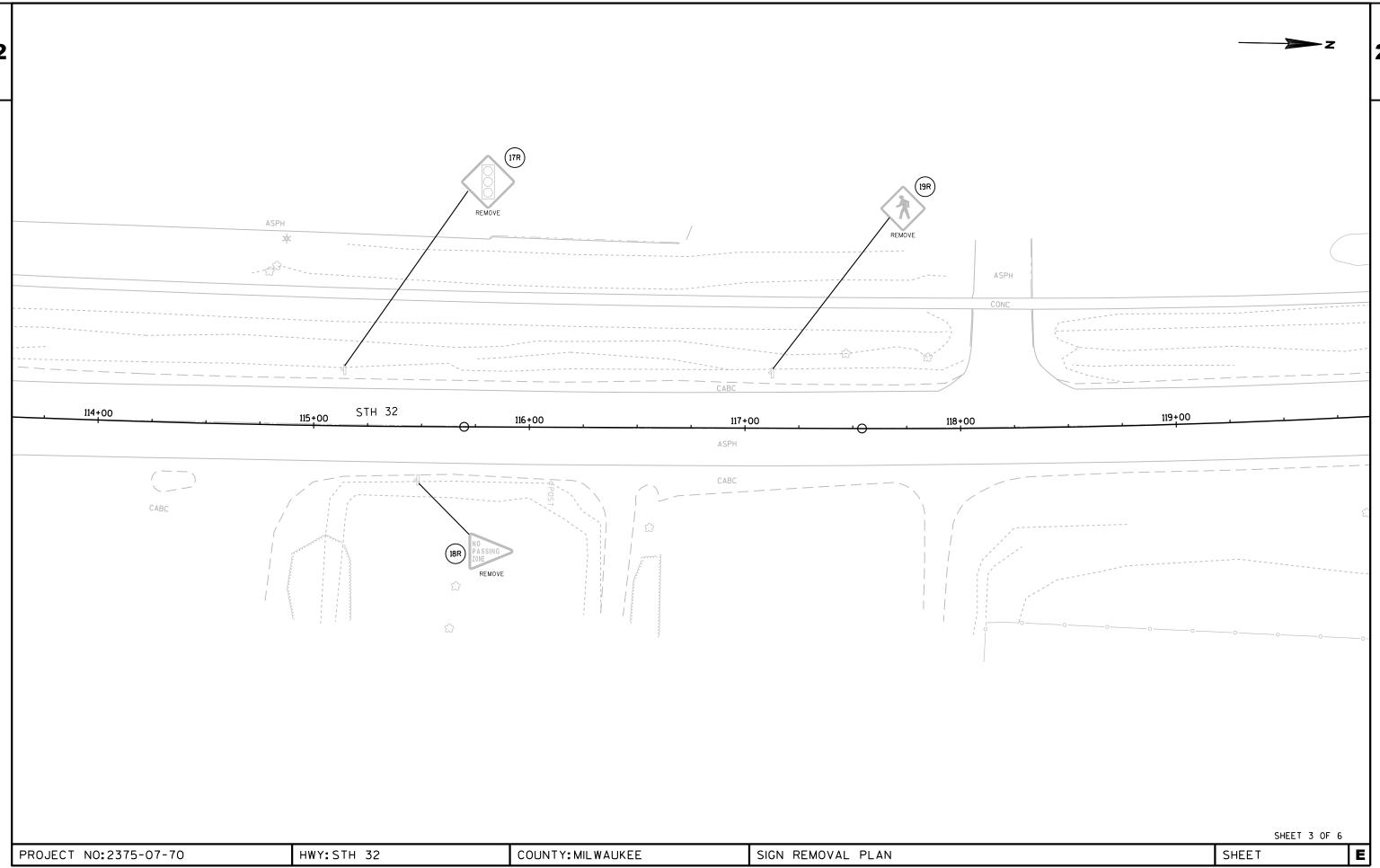
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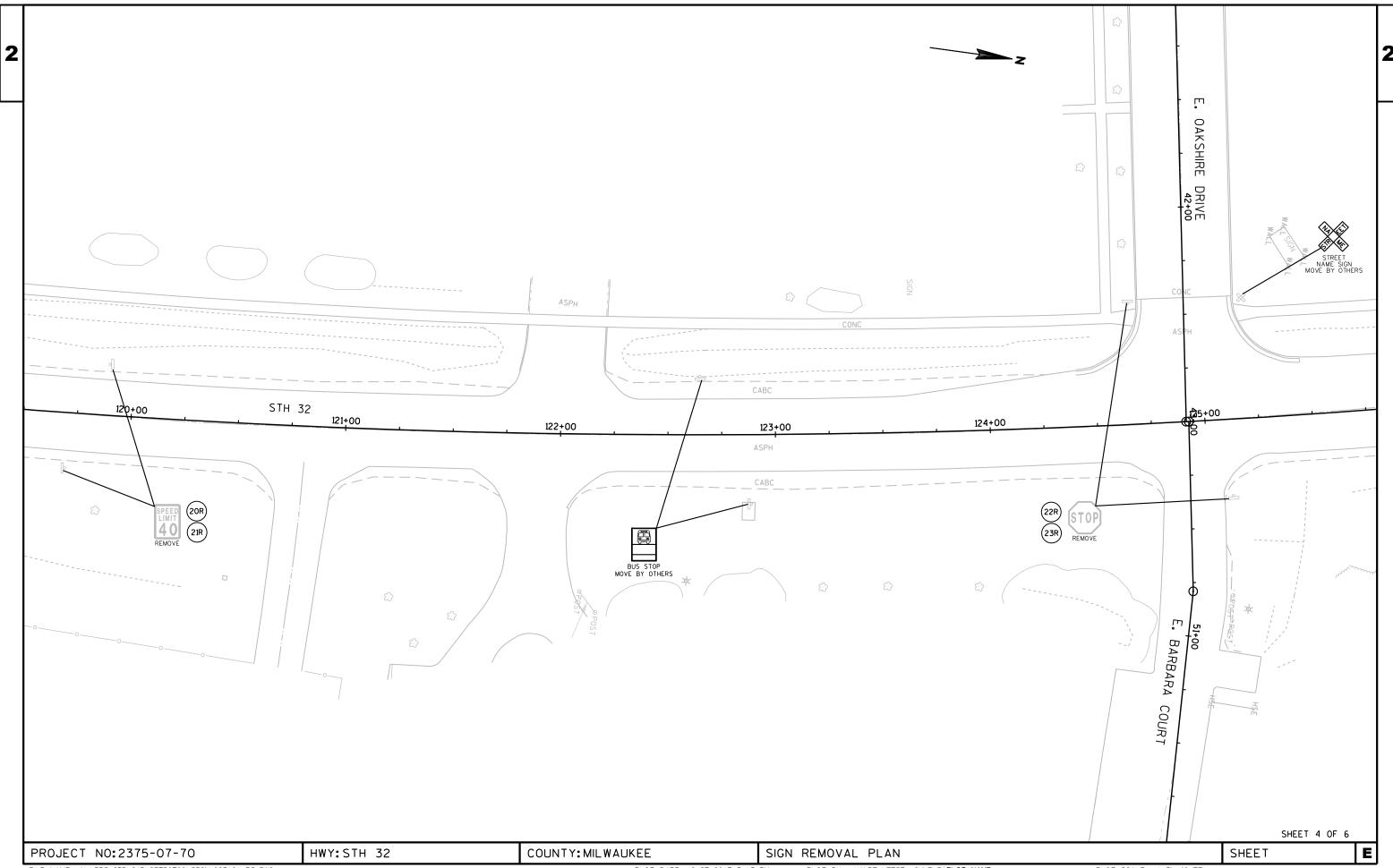


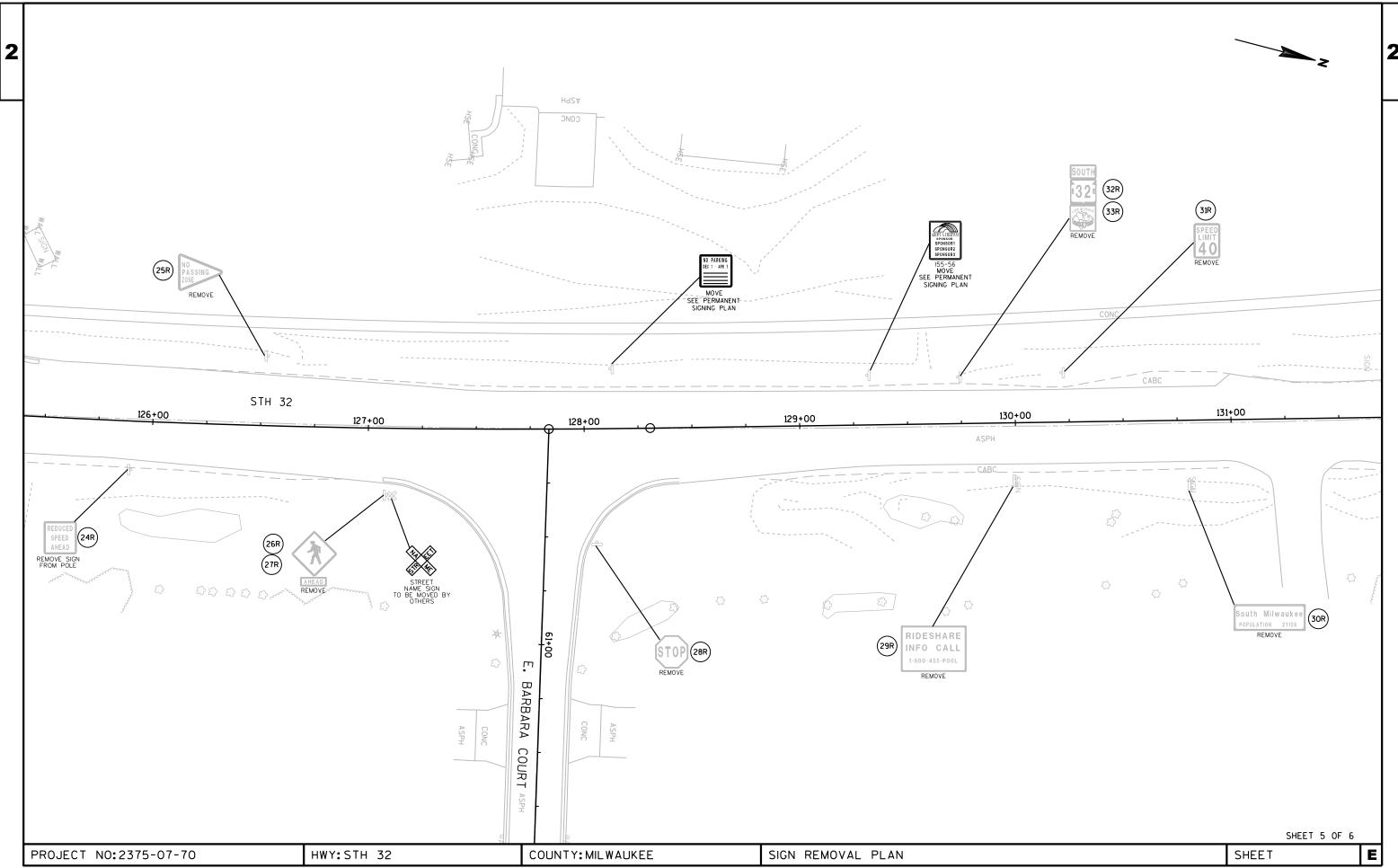


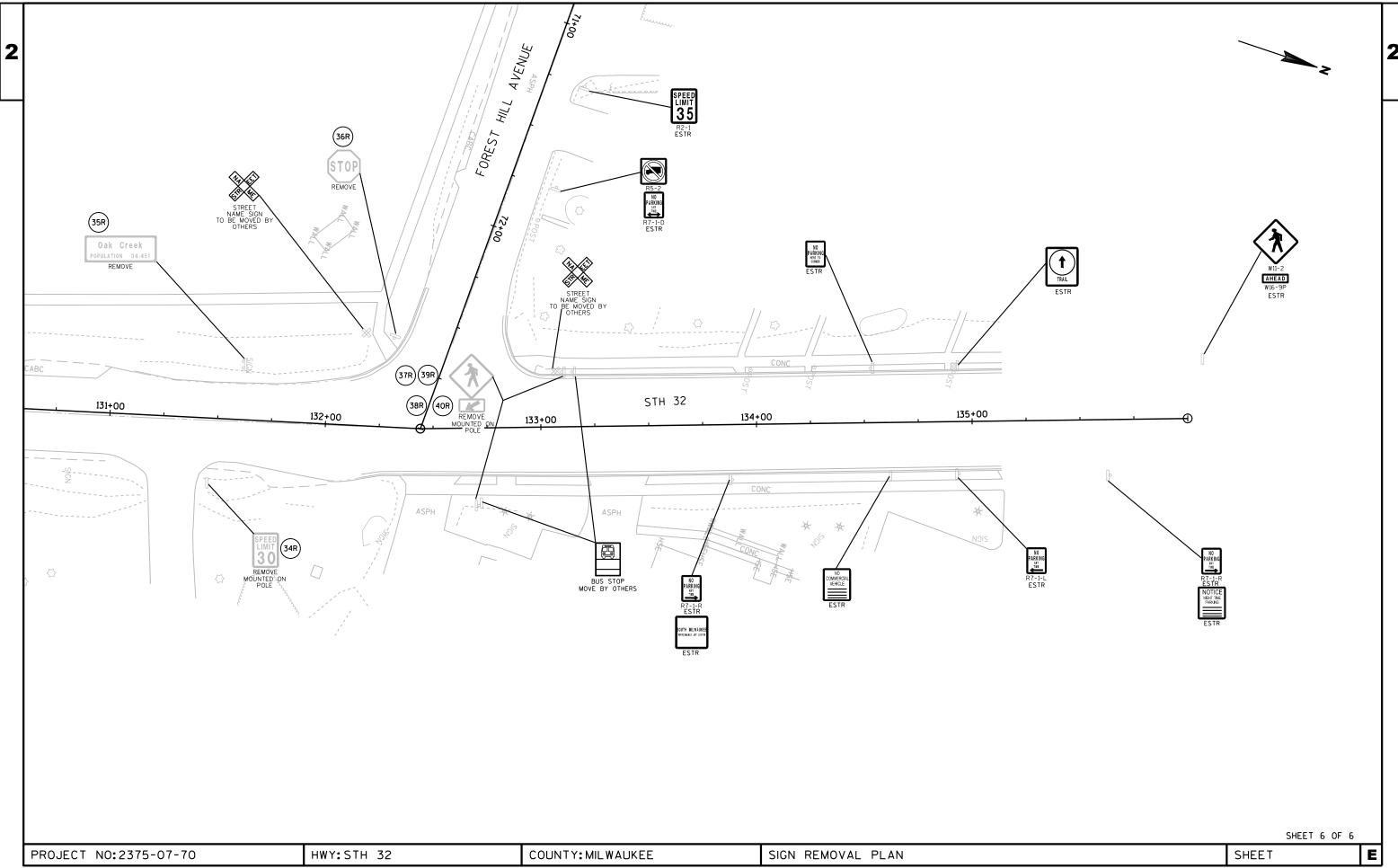


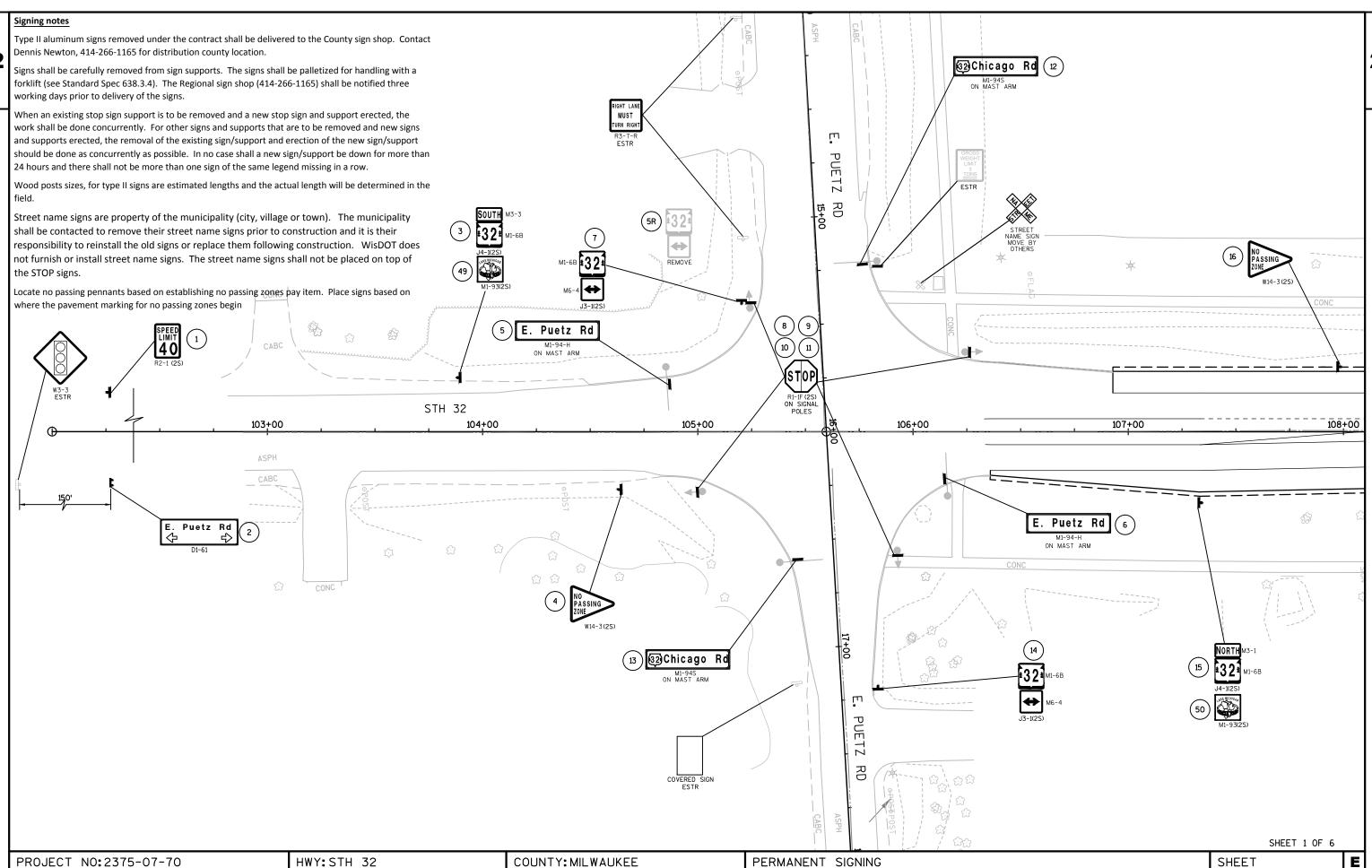












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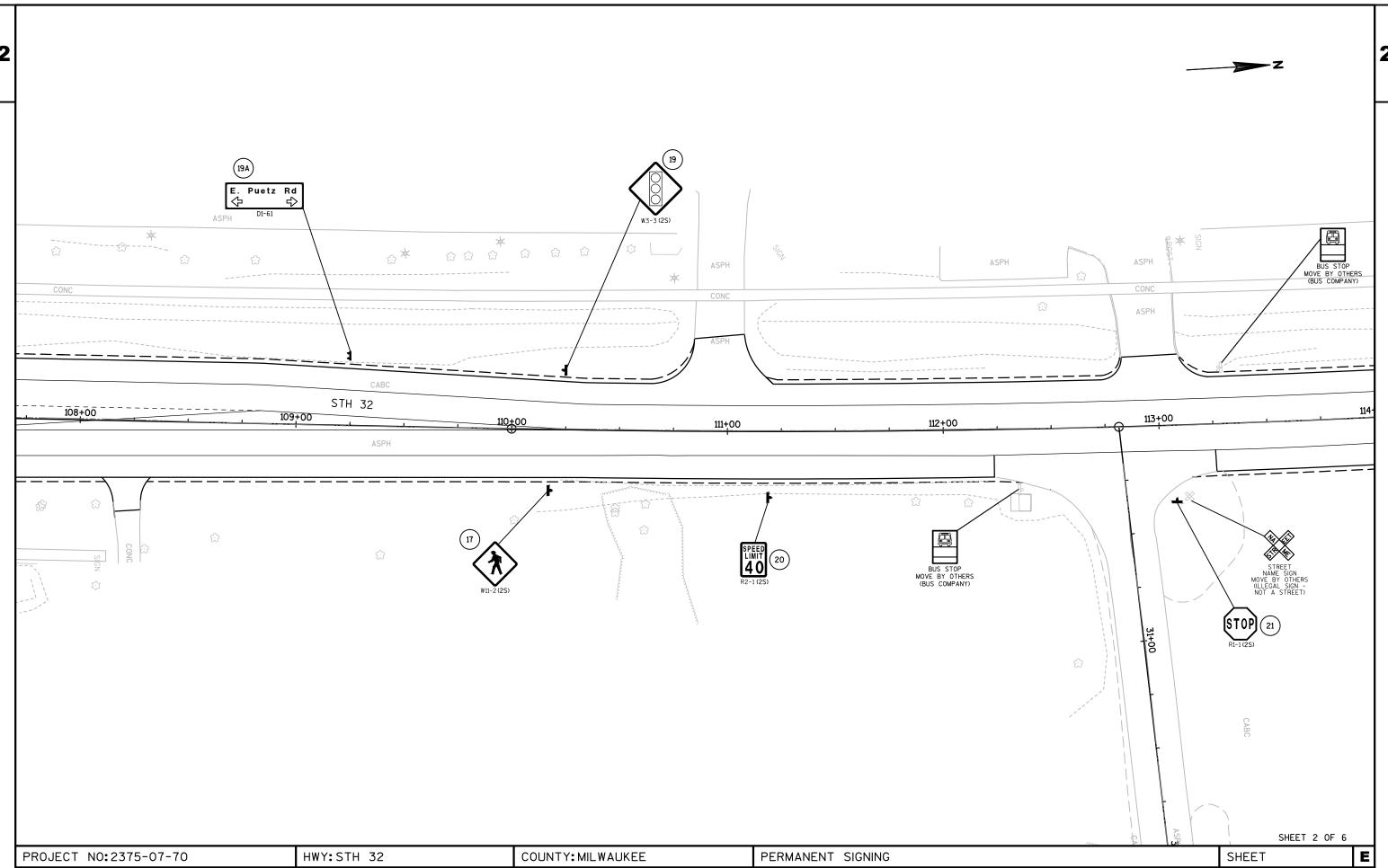
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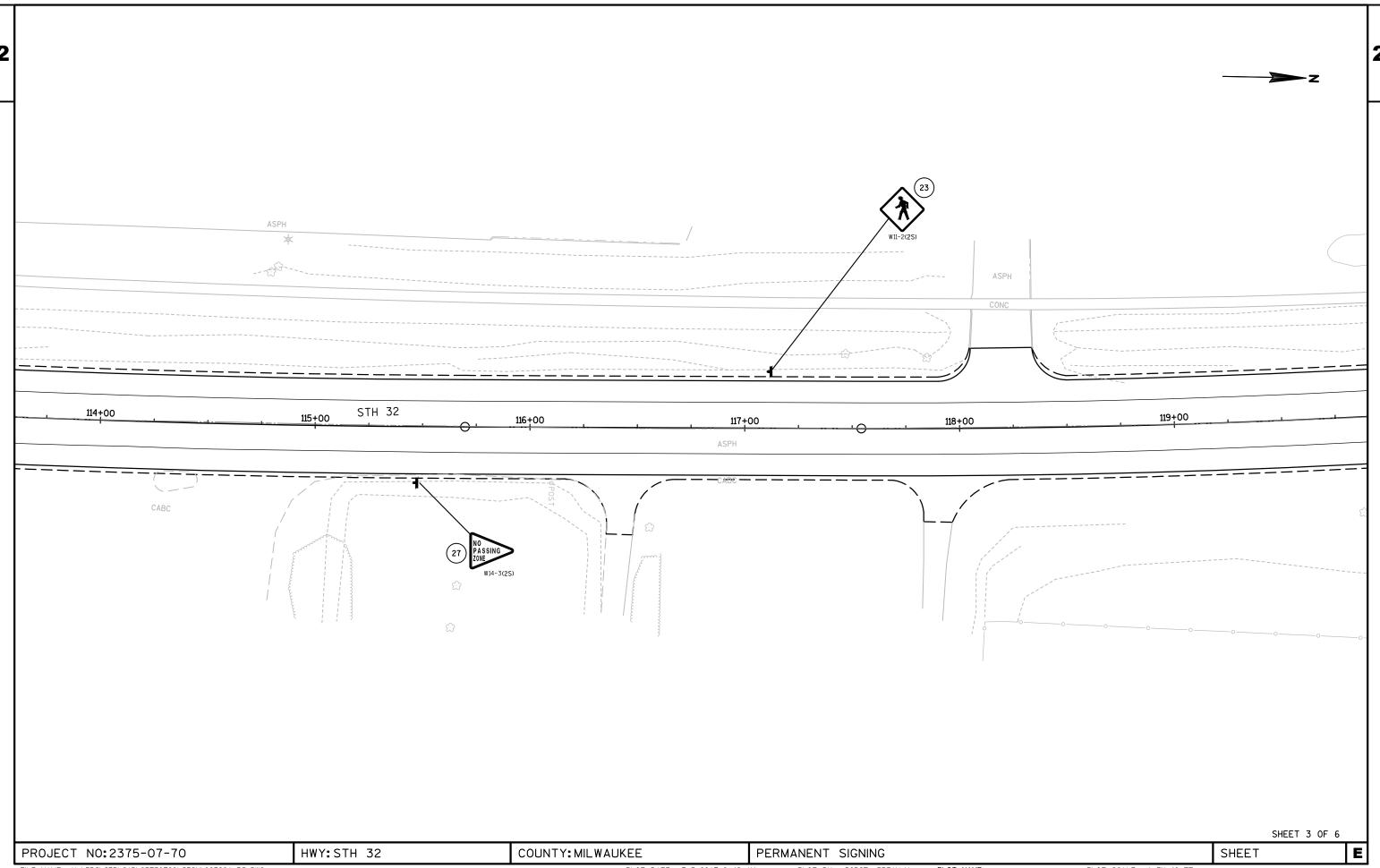
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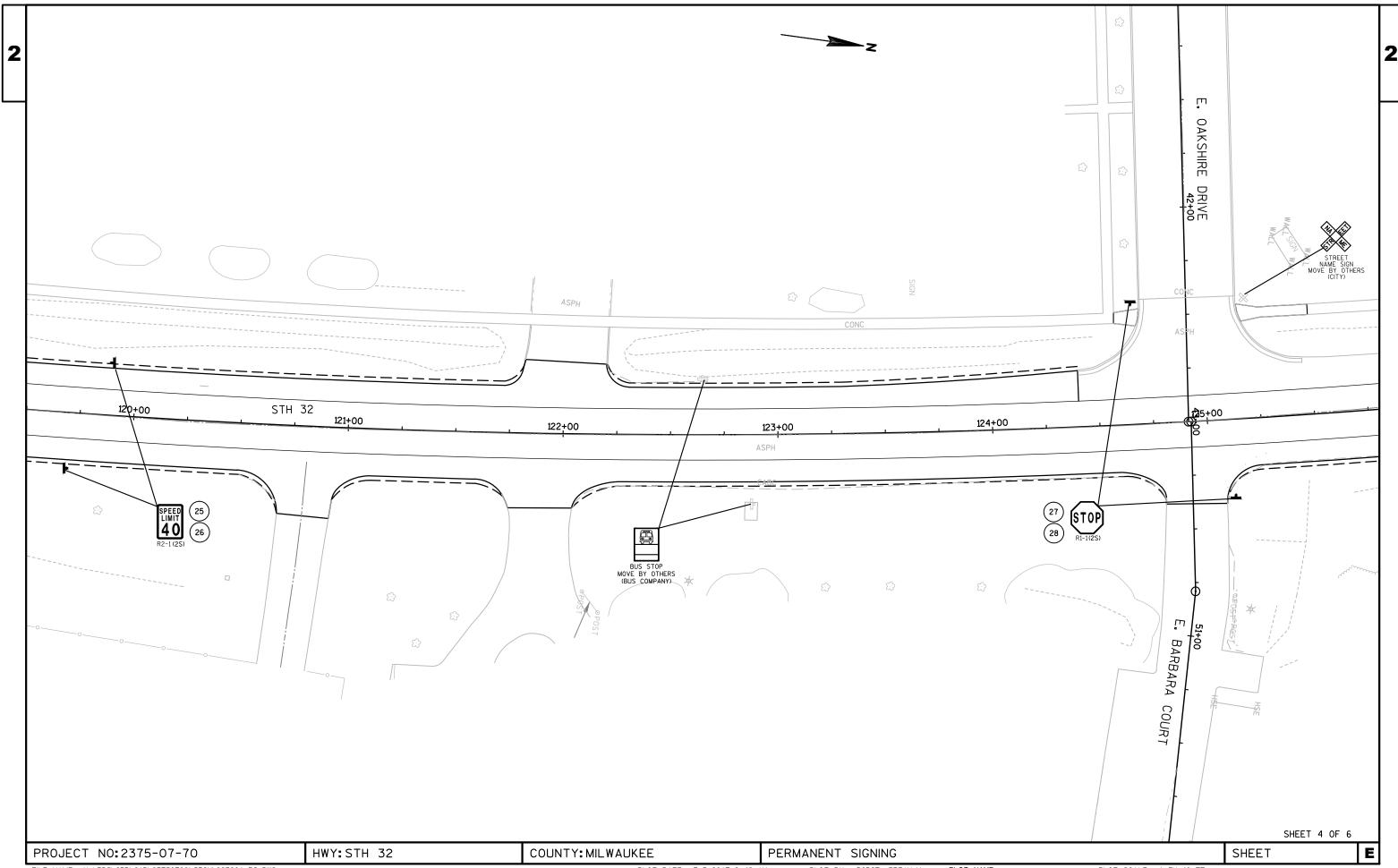
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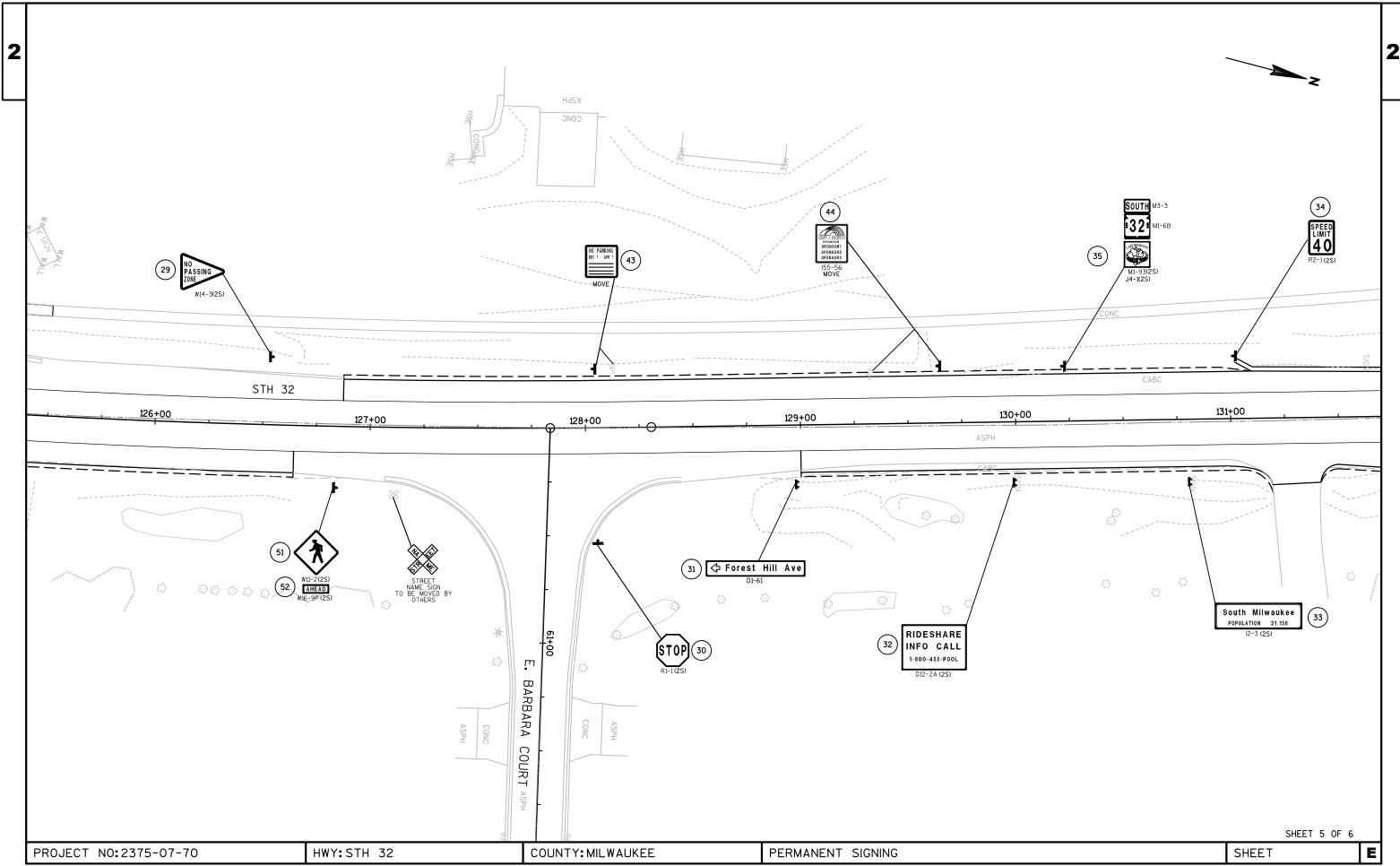
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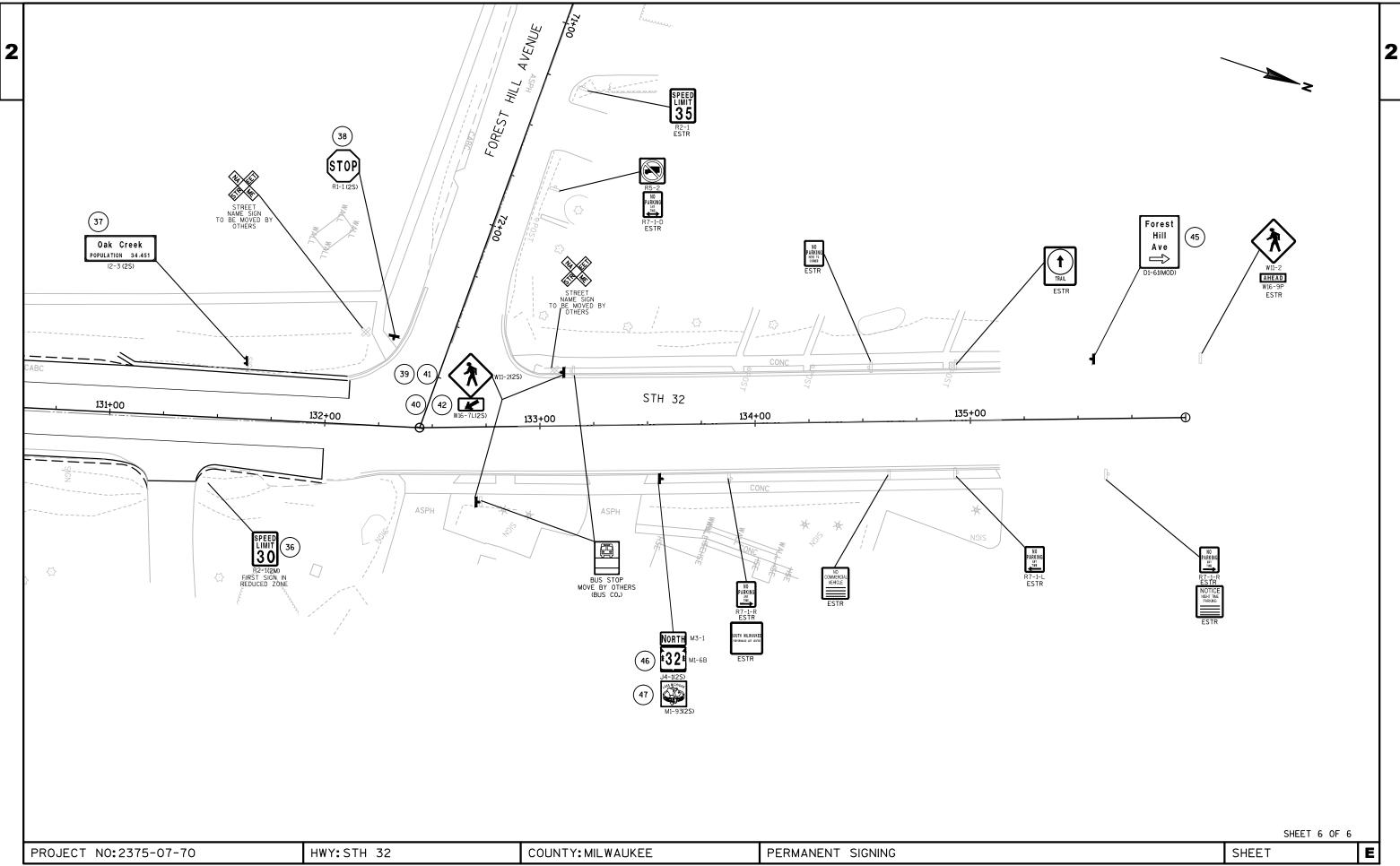
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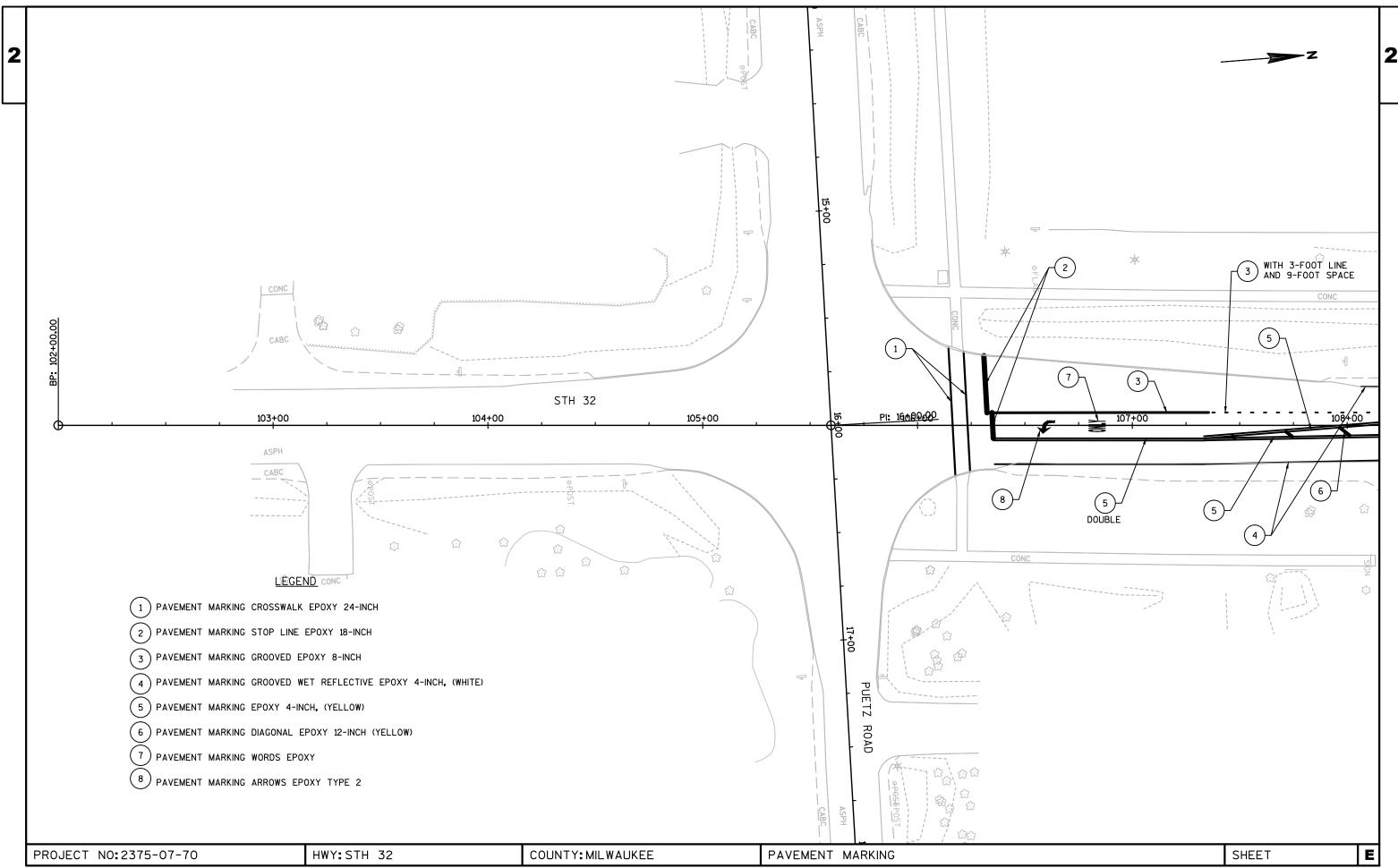


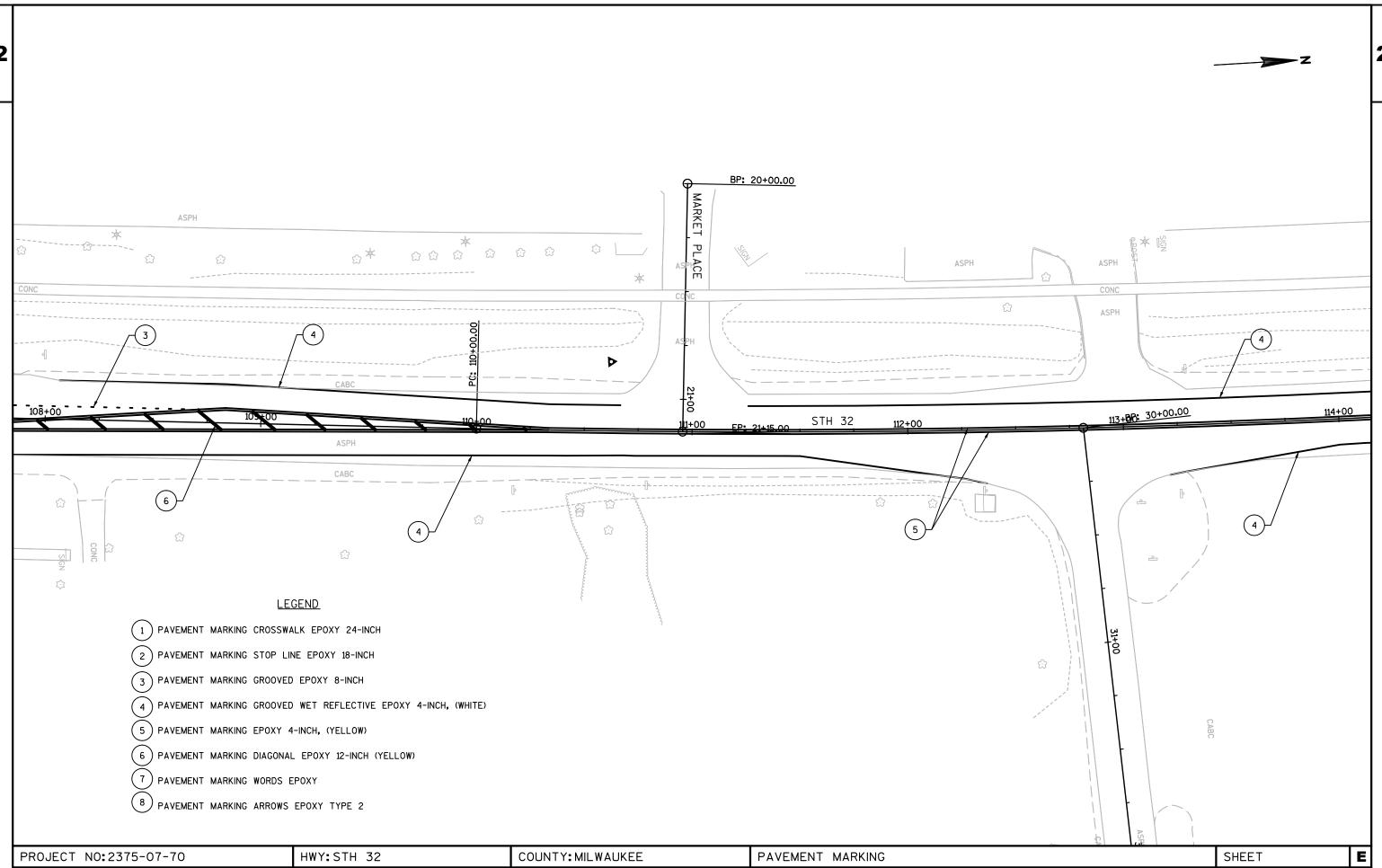


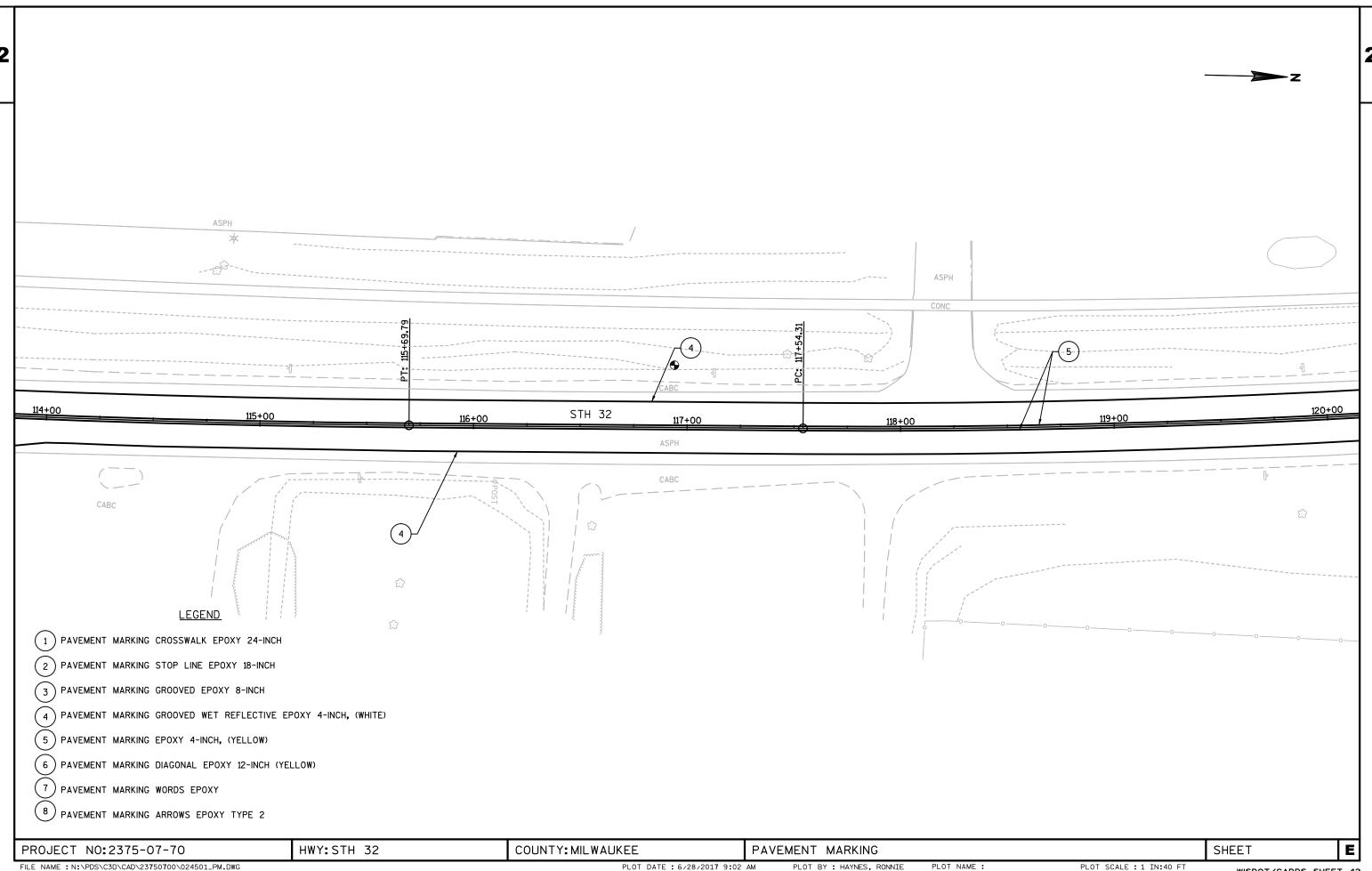


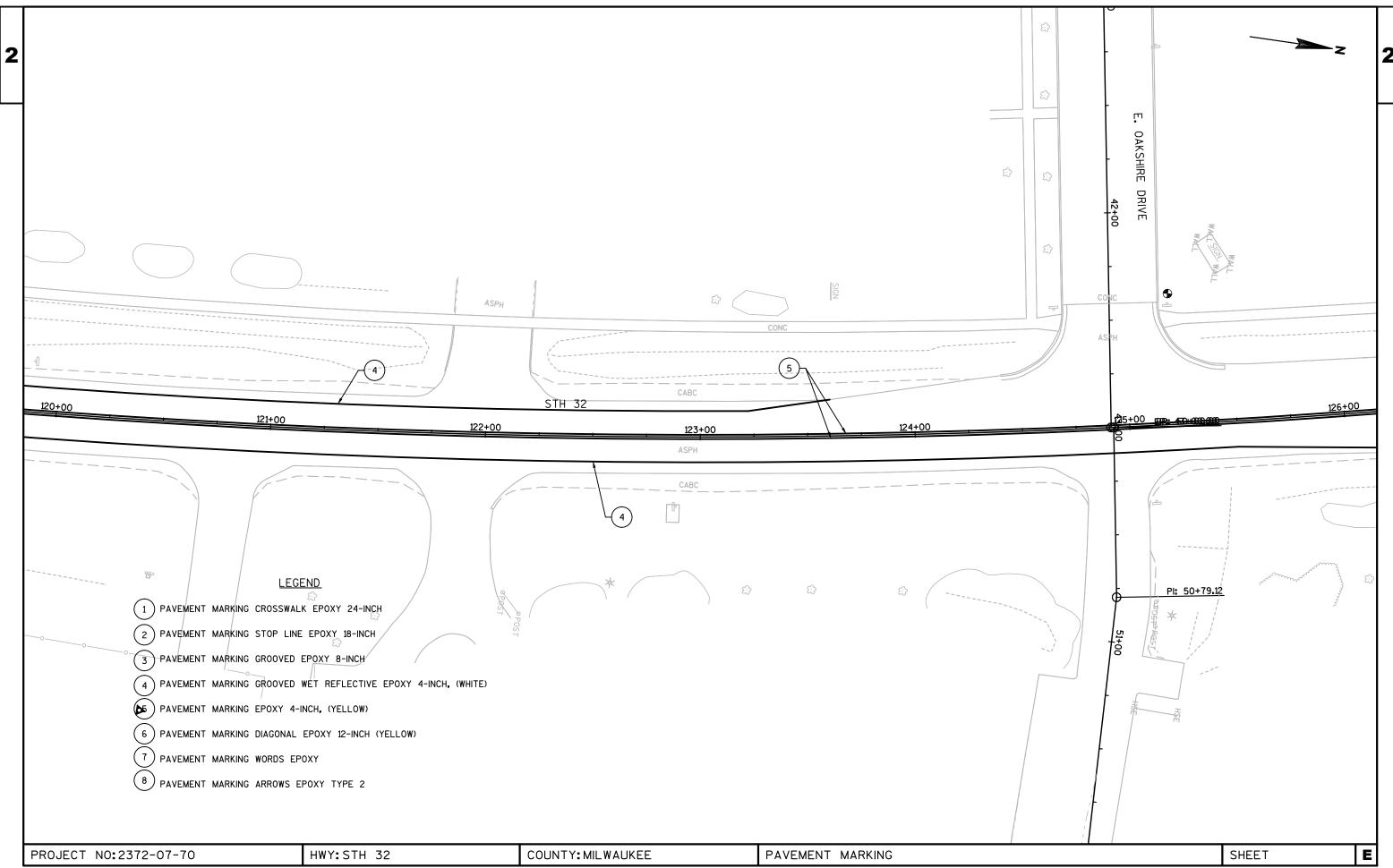


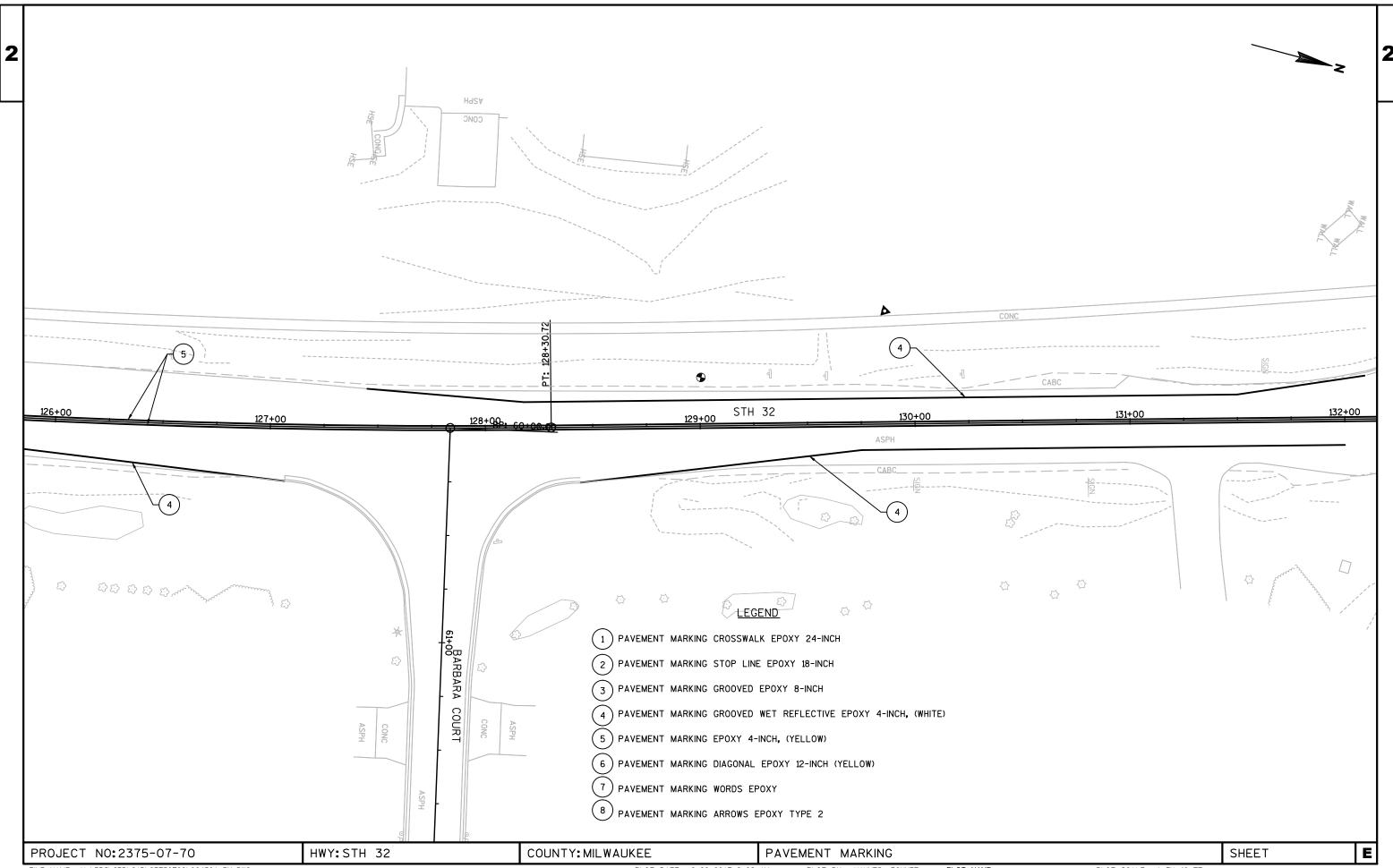


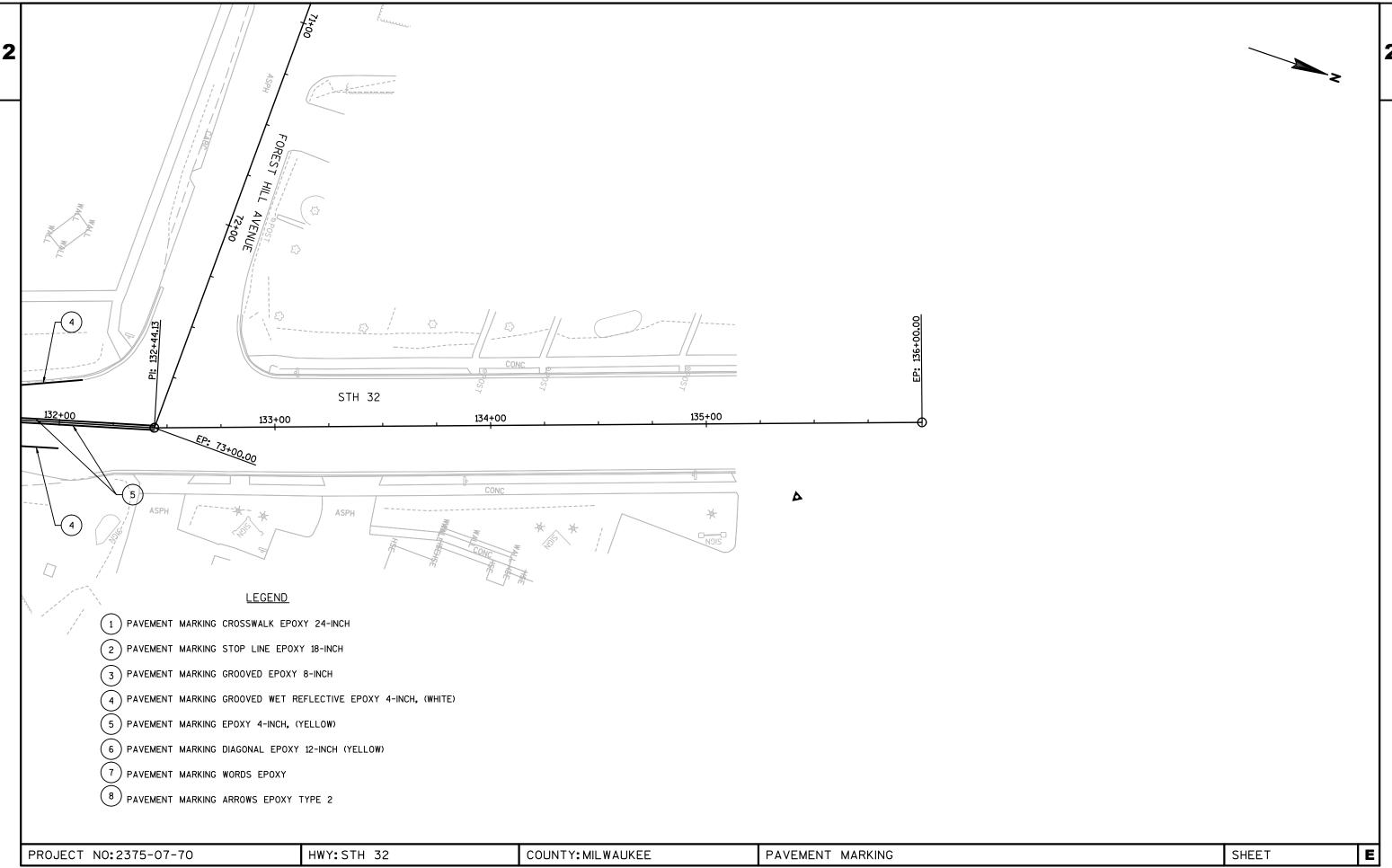












COUNTY: MILWAUKEE

HWY:STH 32

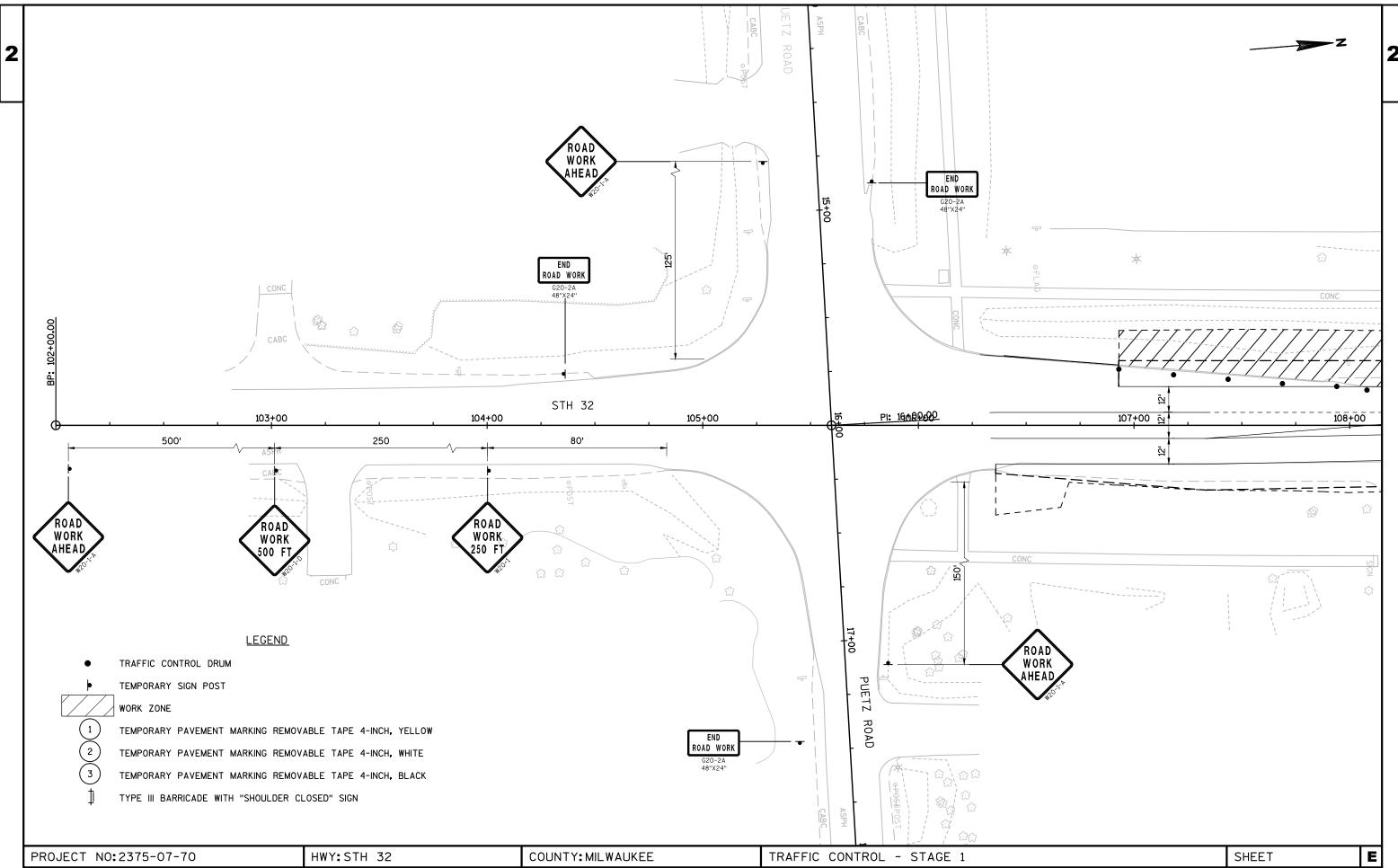
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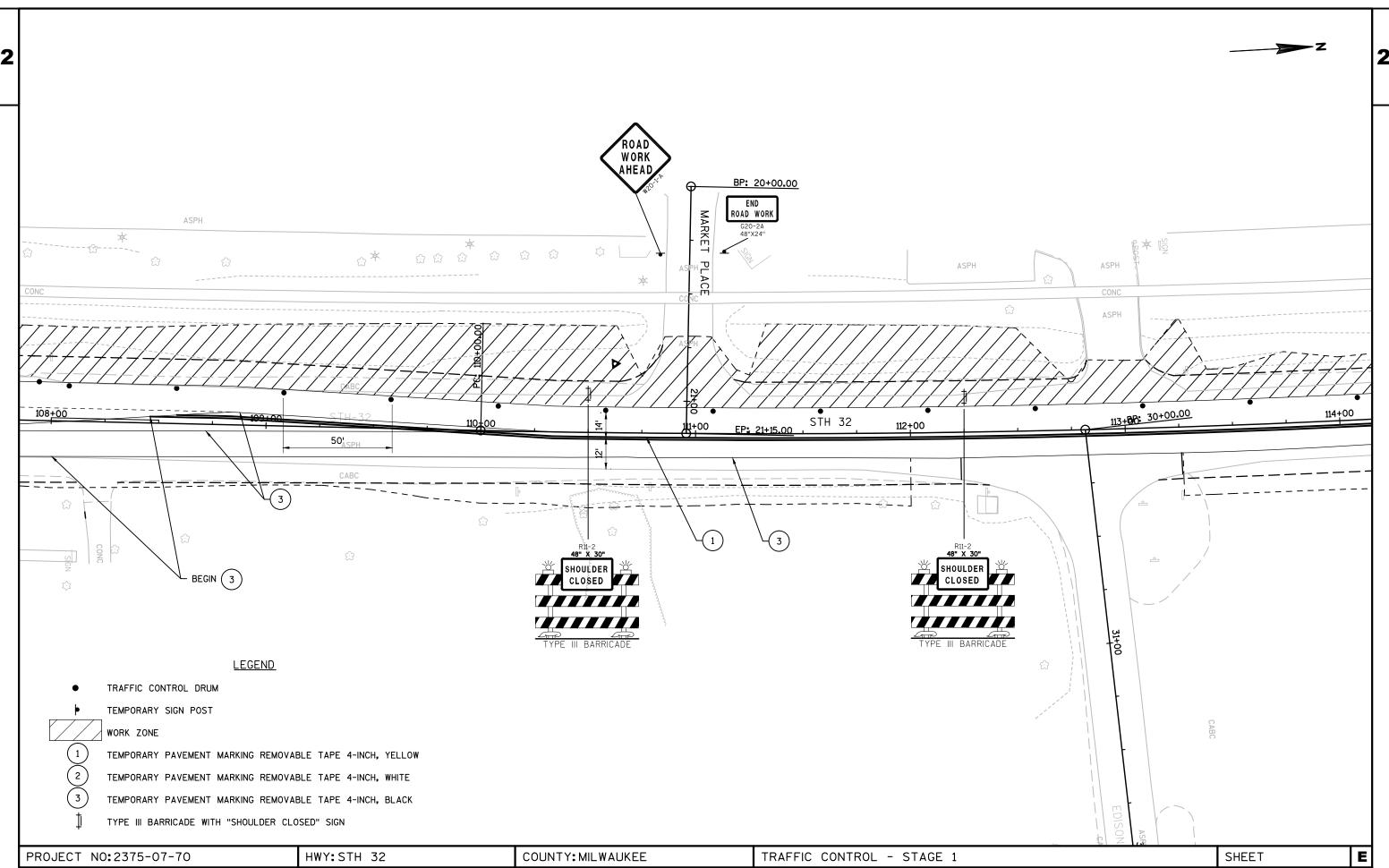
TYPICAL SECTIONS - TRAFFIC CONTROL

E

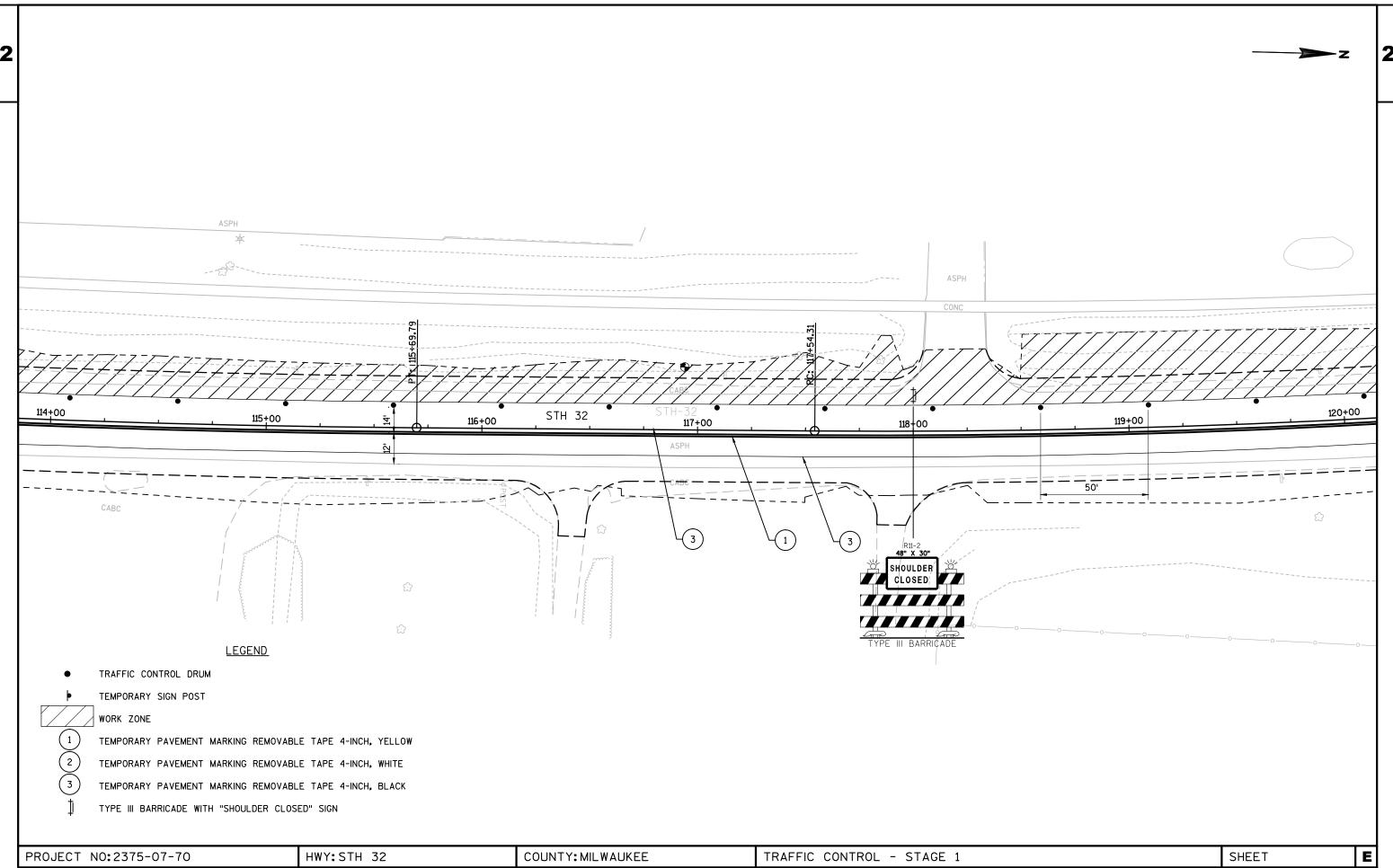
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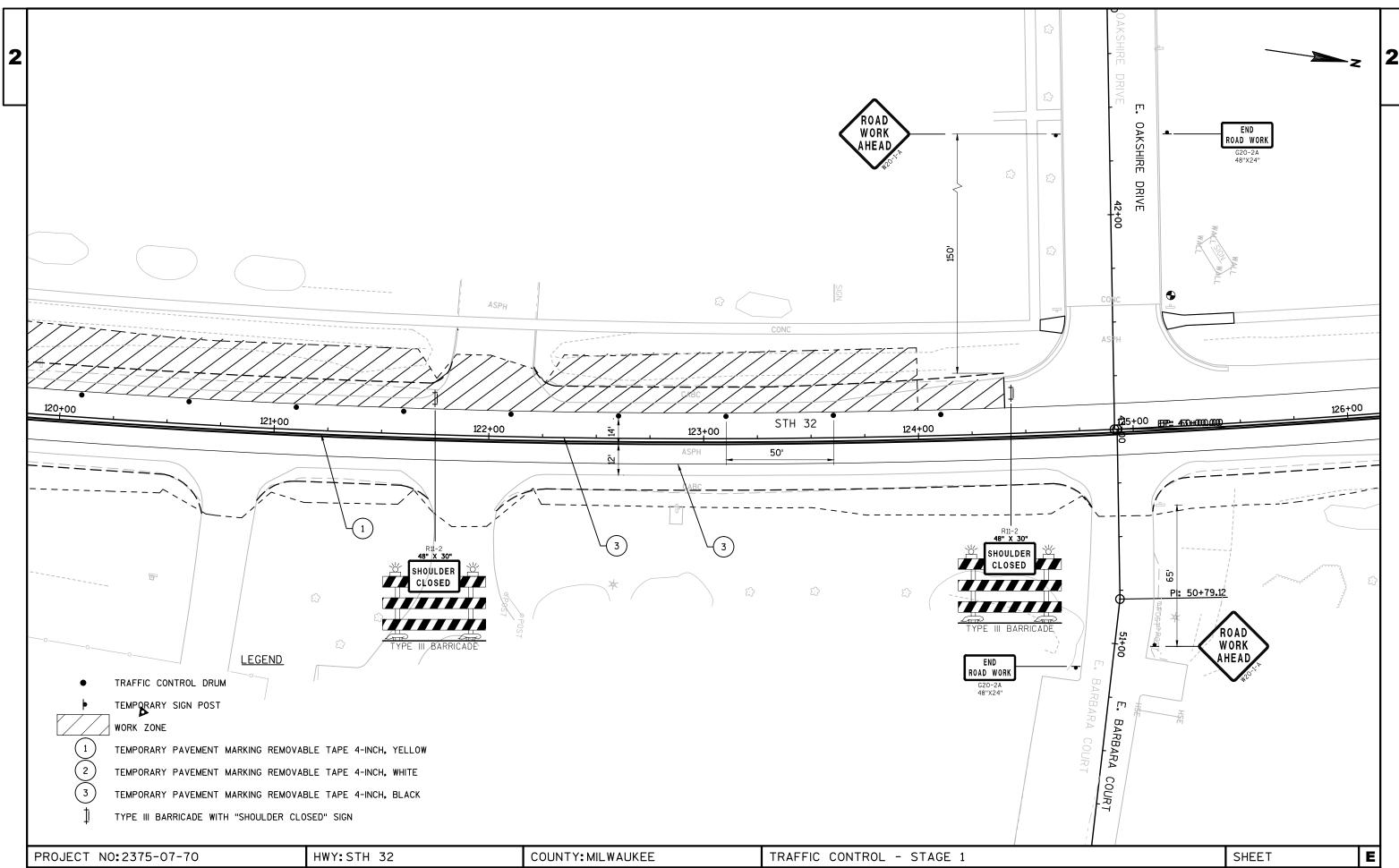
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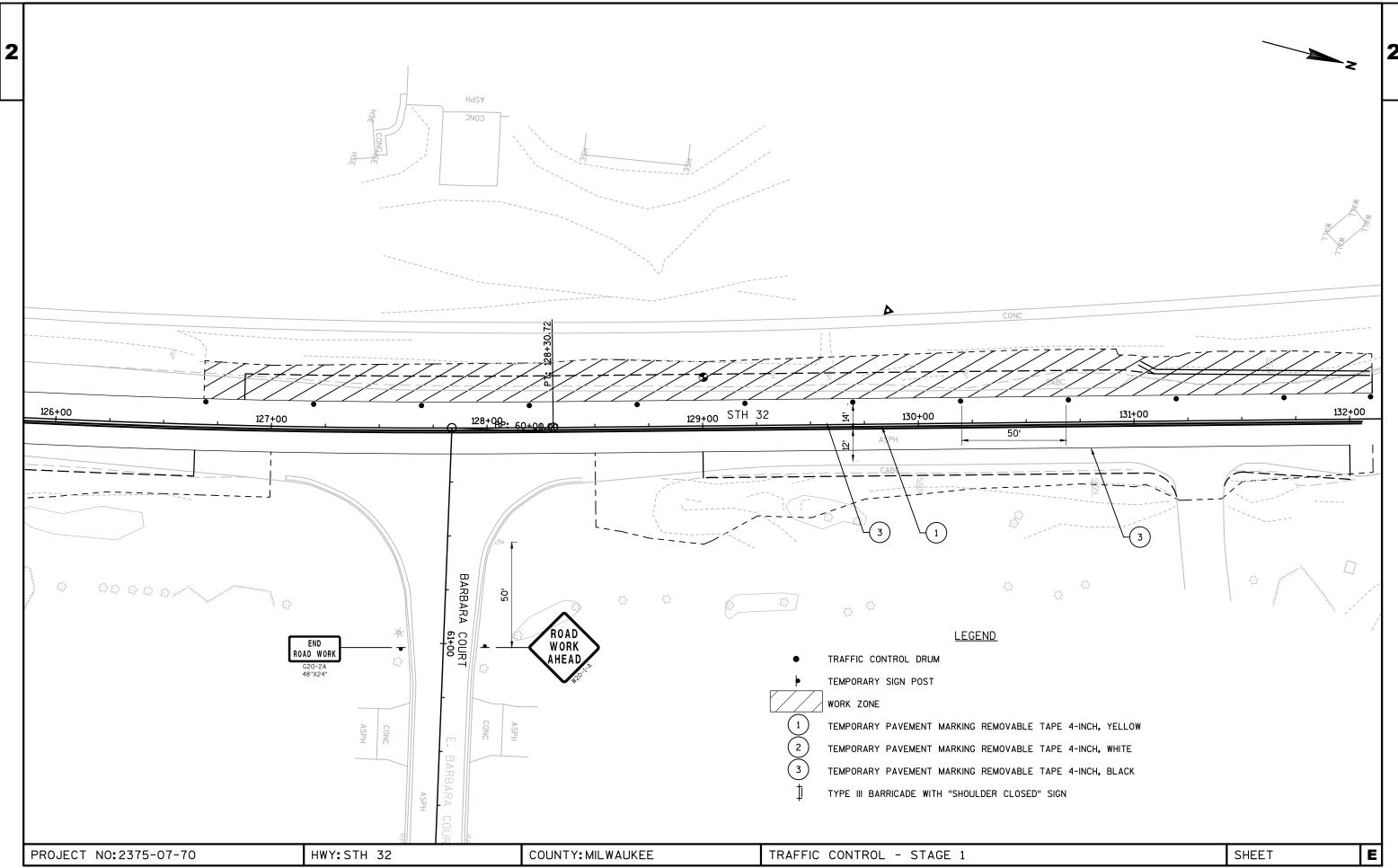


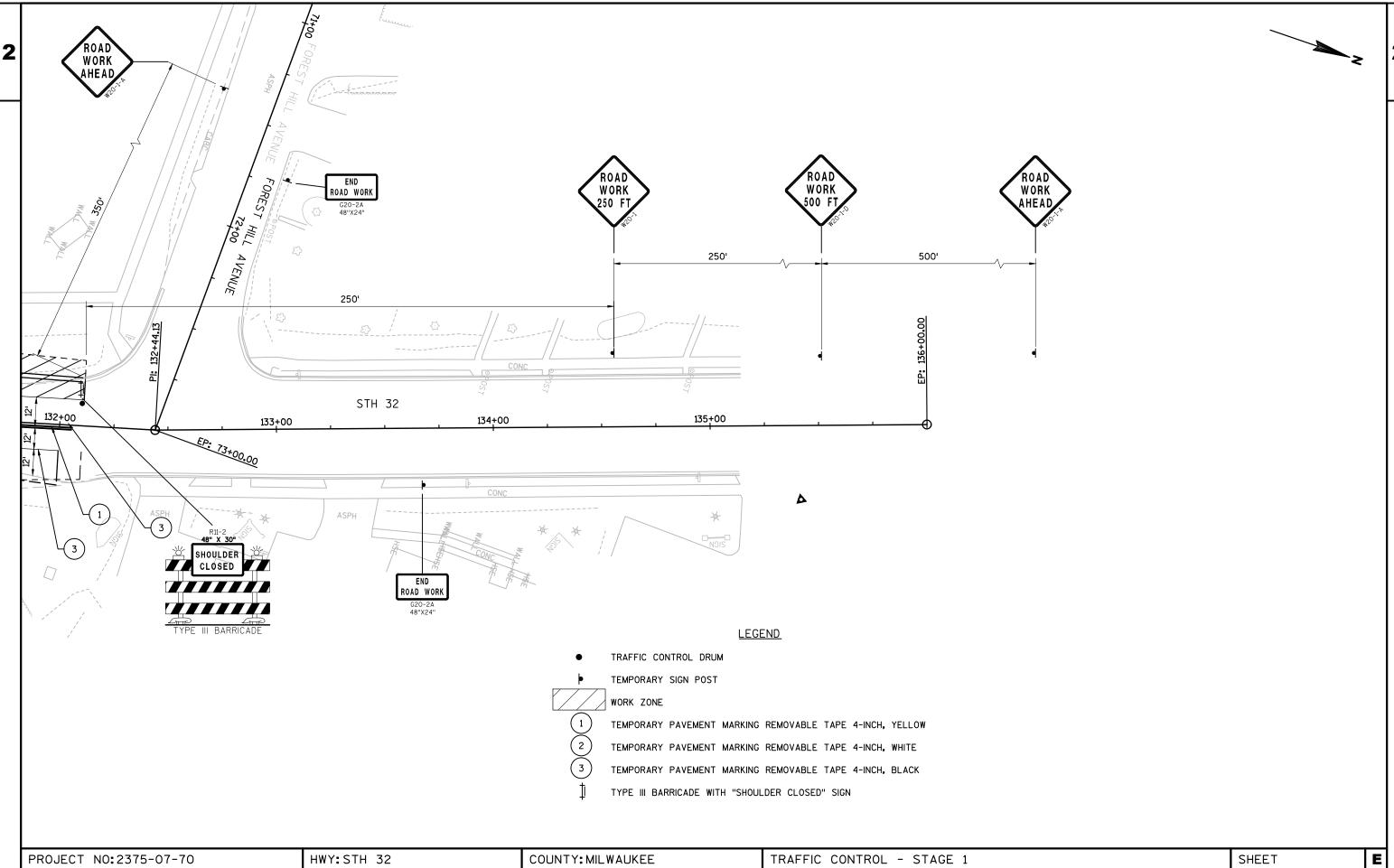


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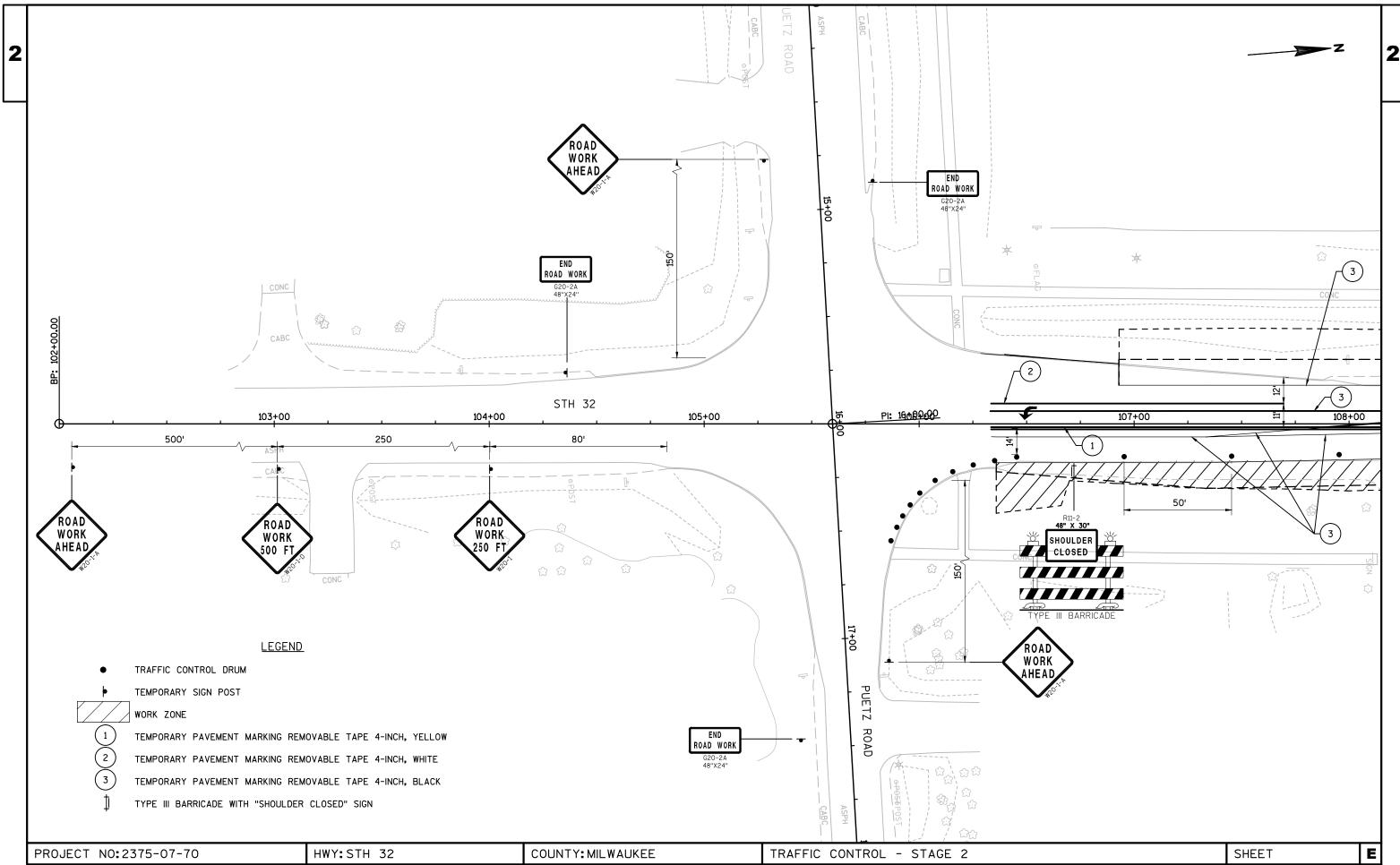


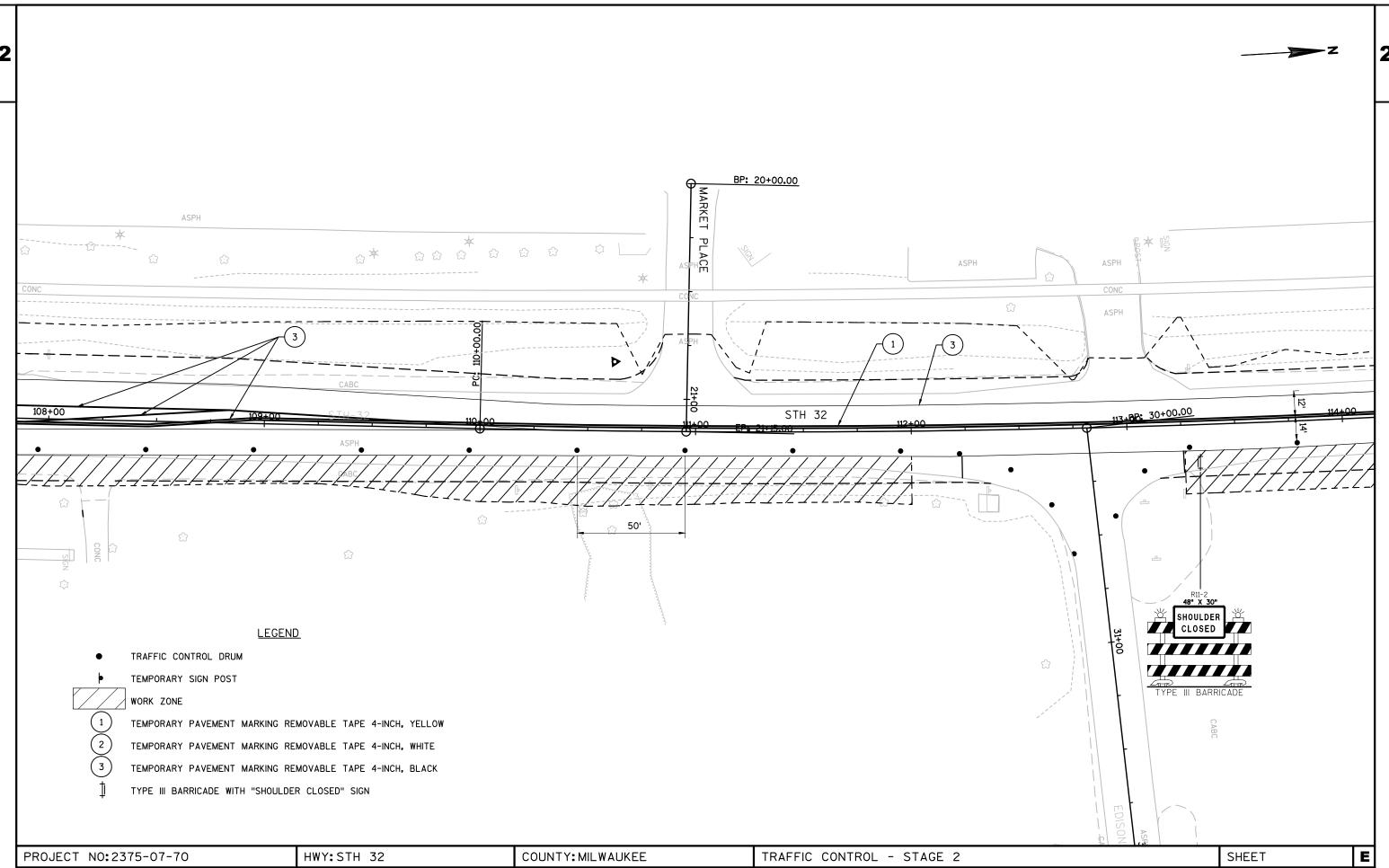


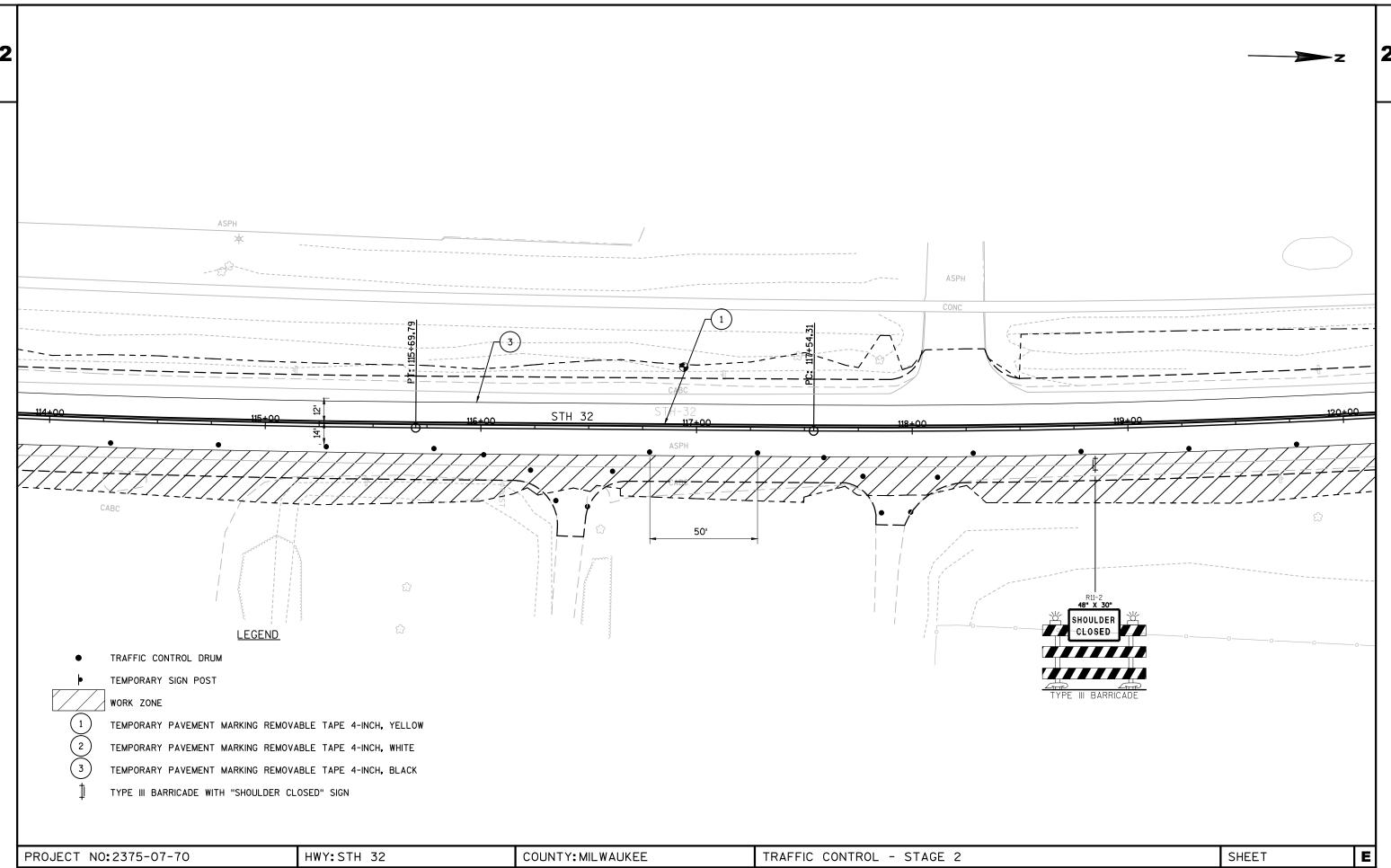


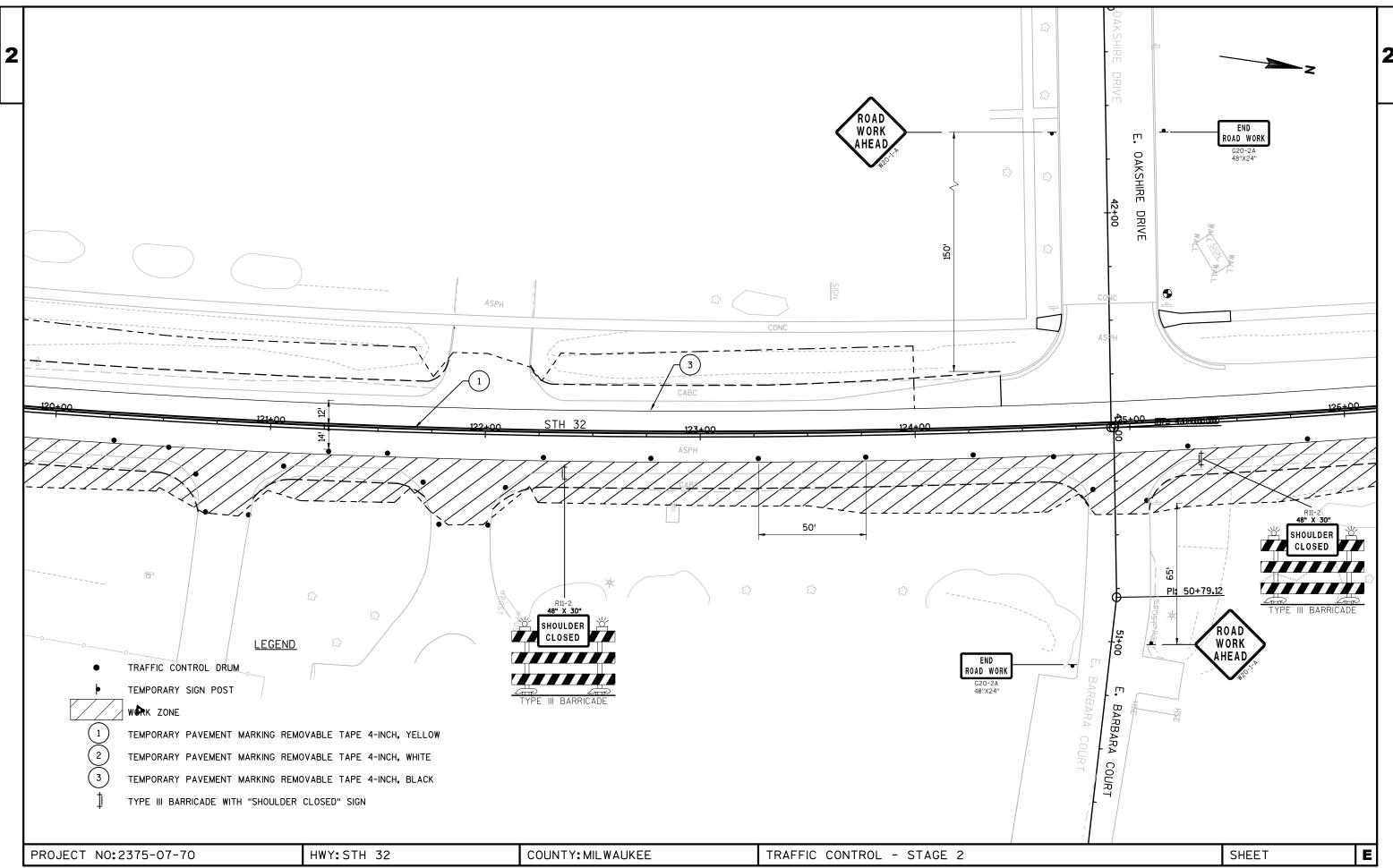
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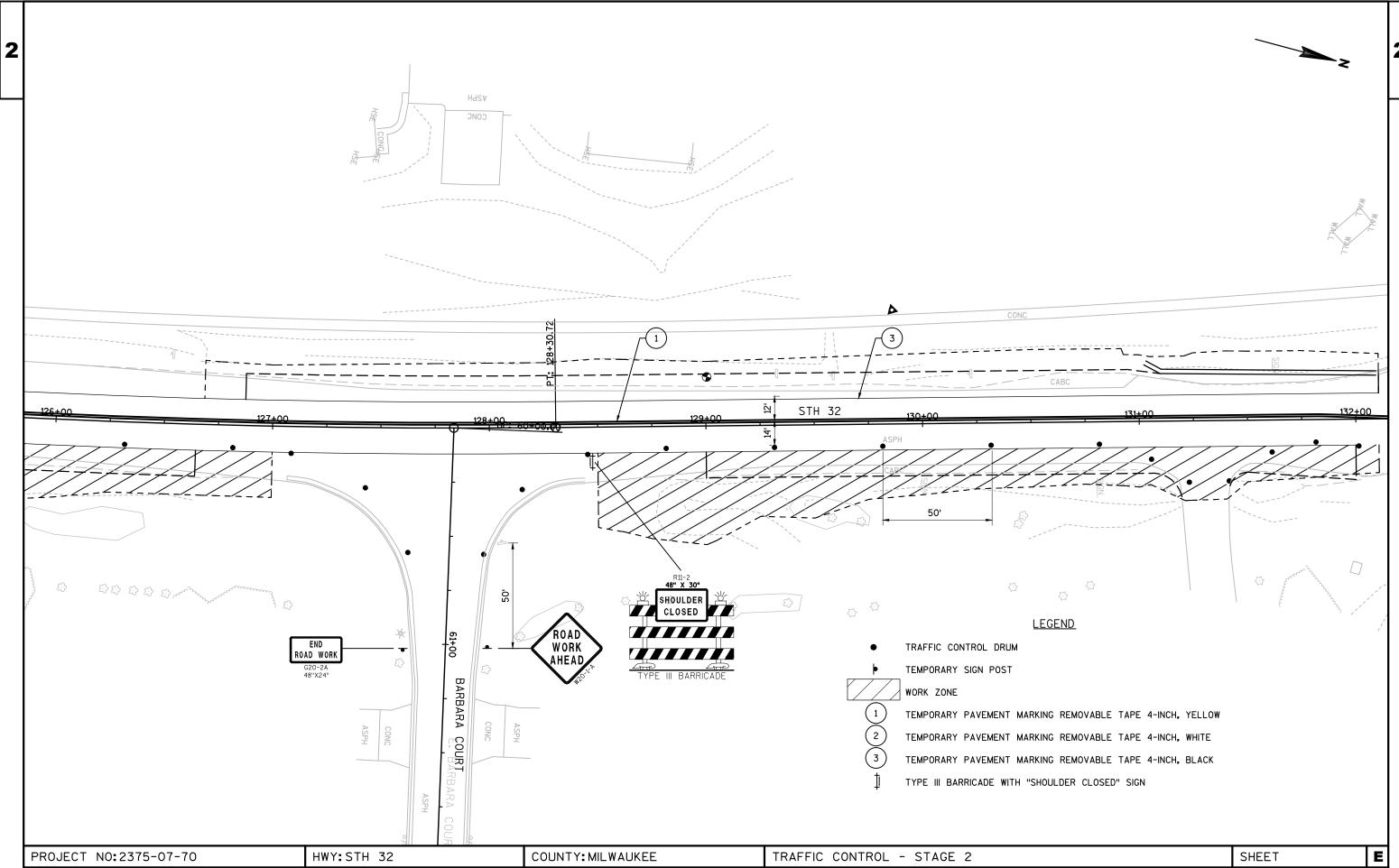
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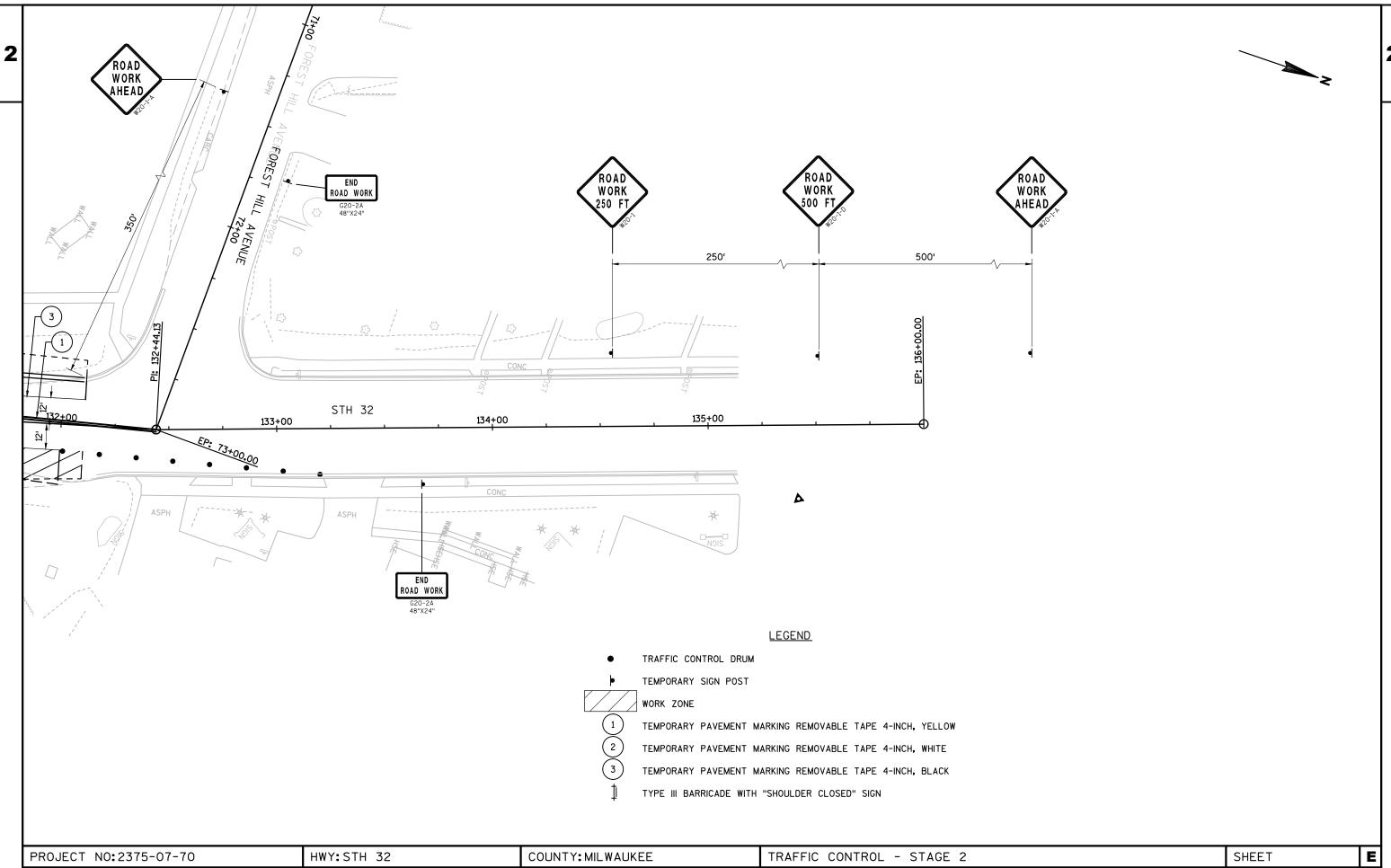




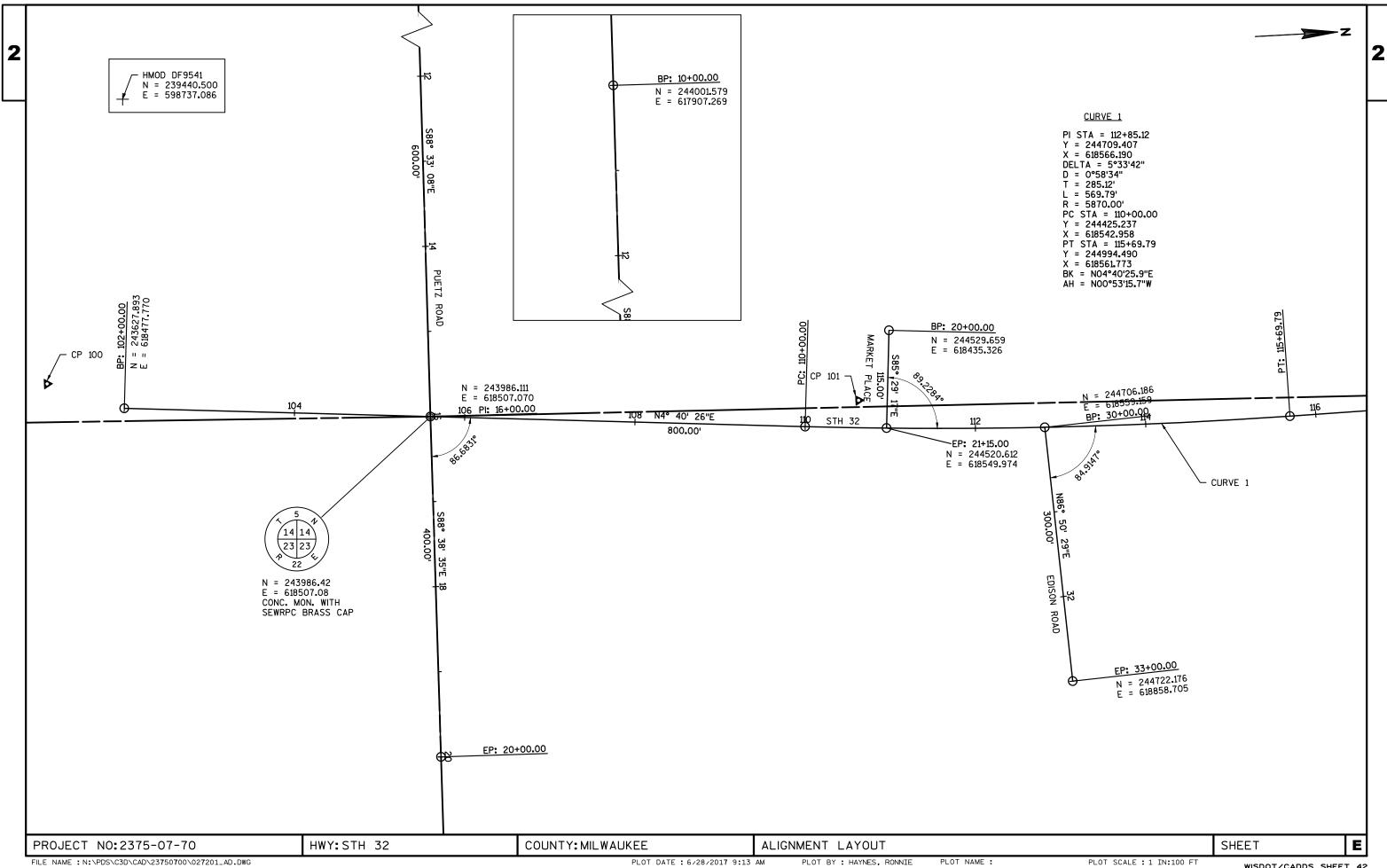


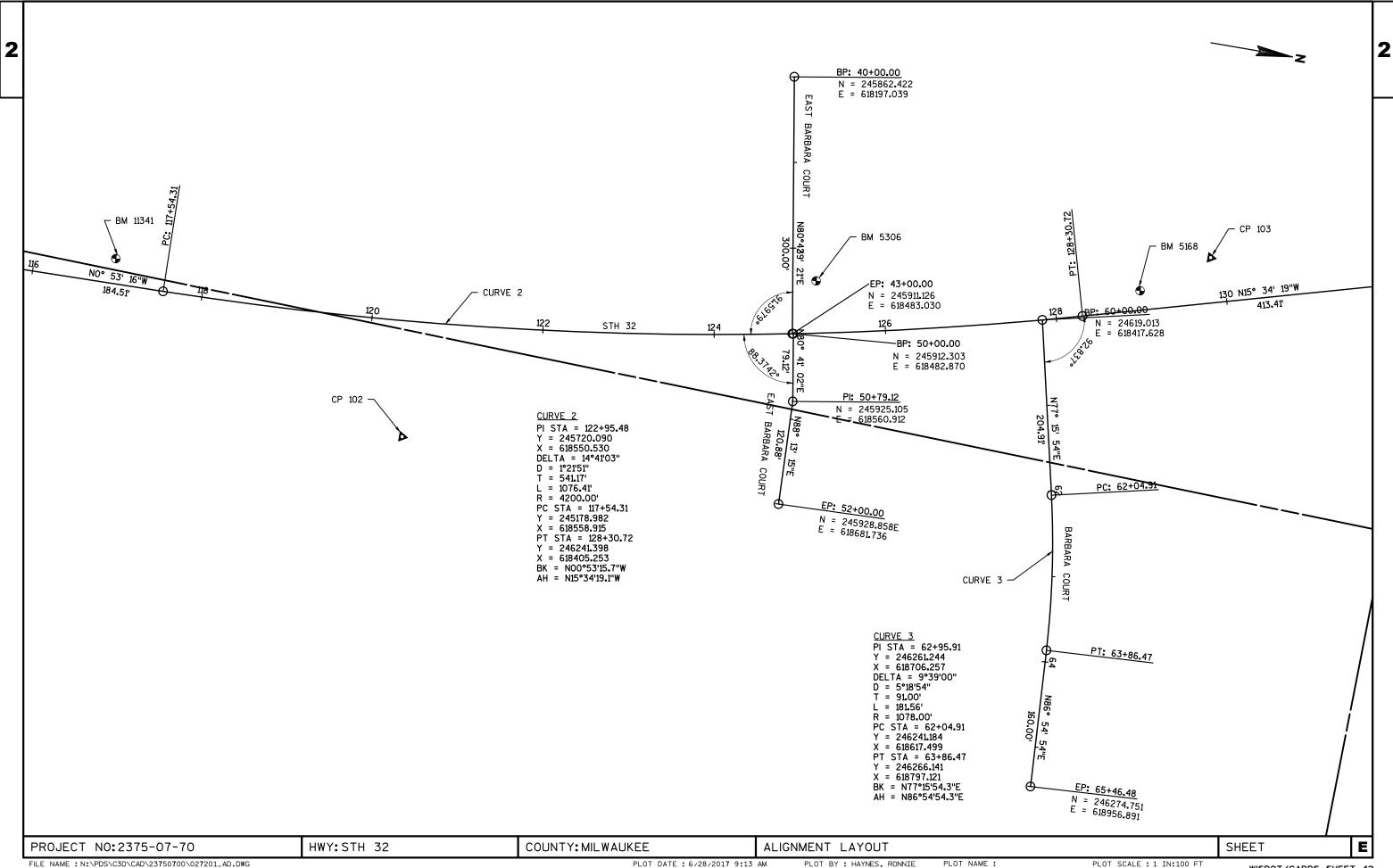


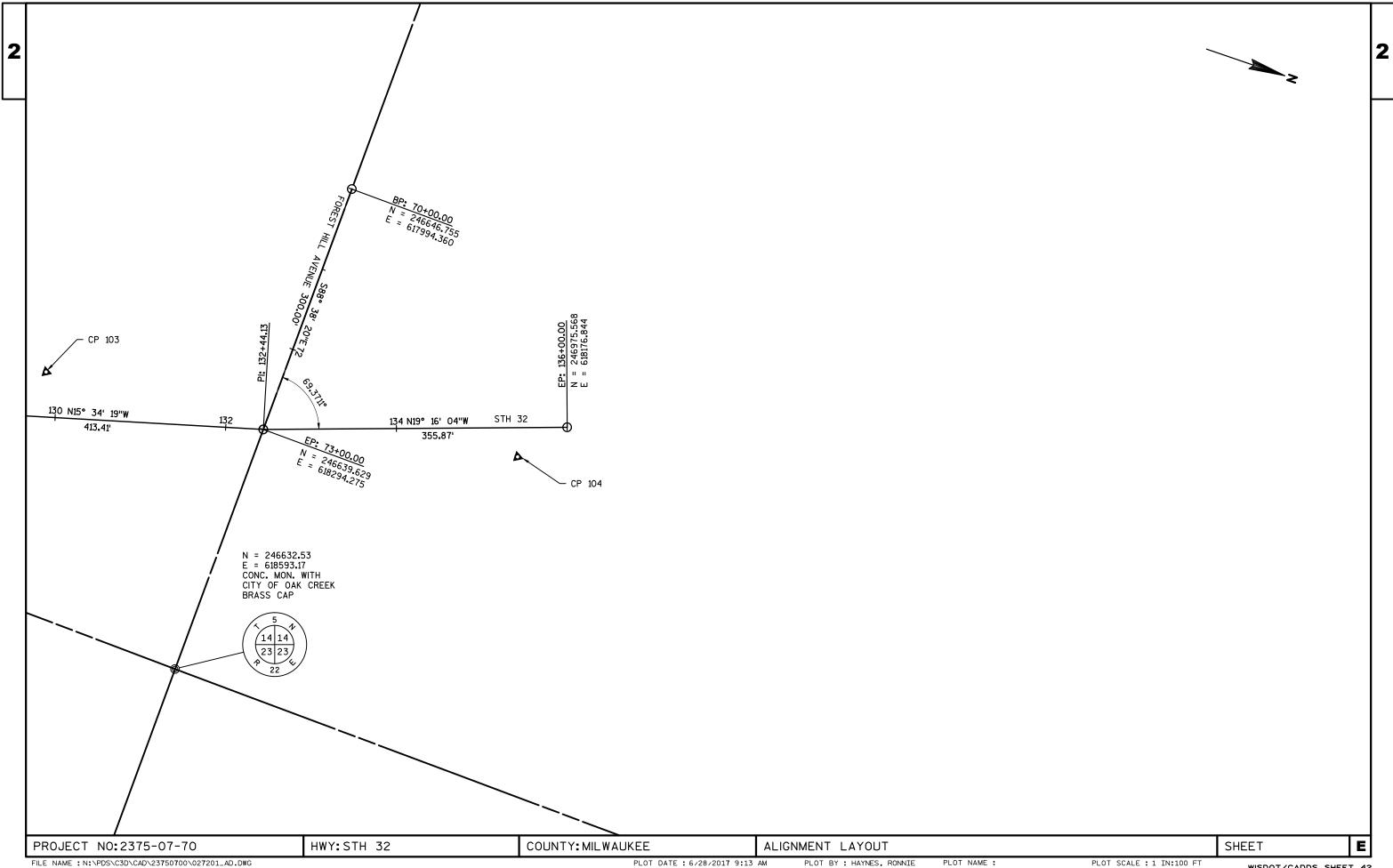


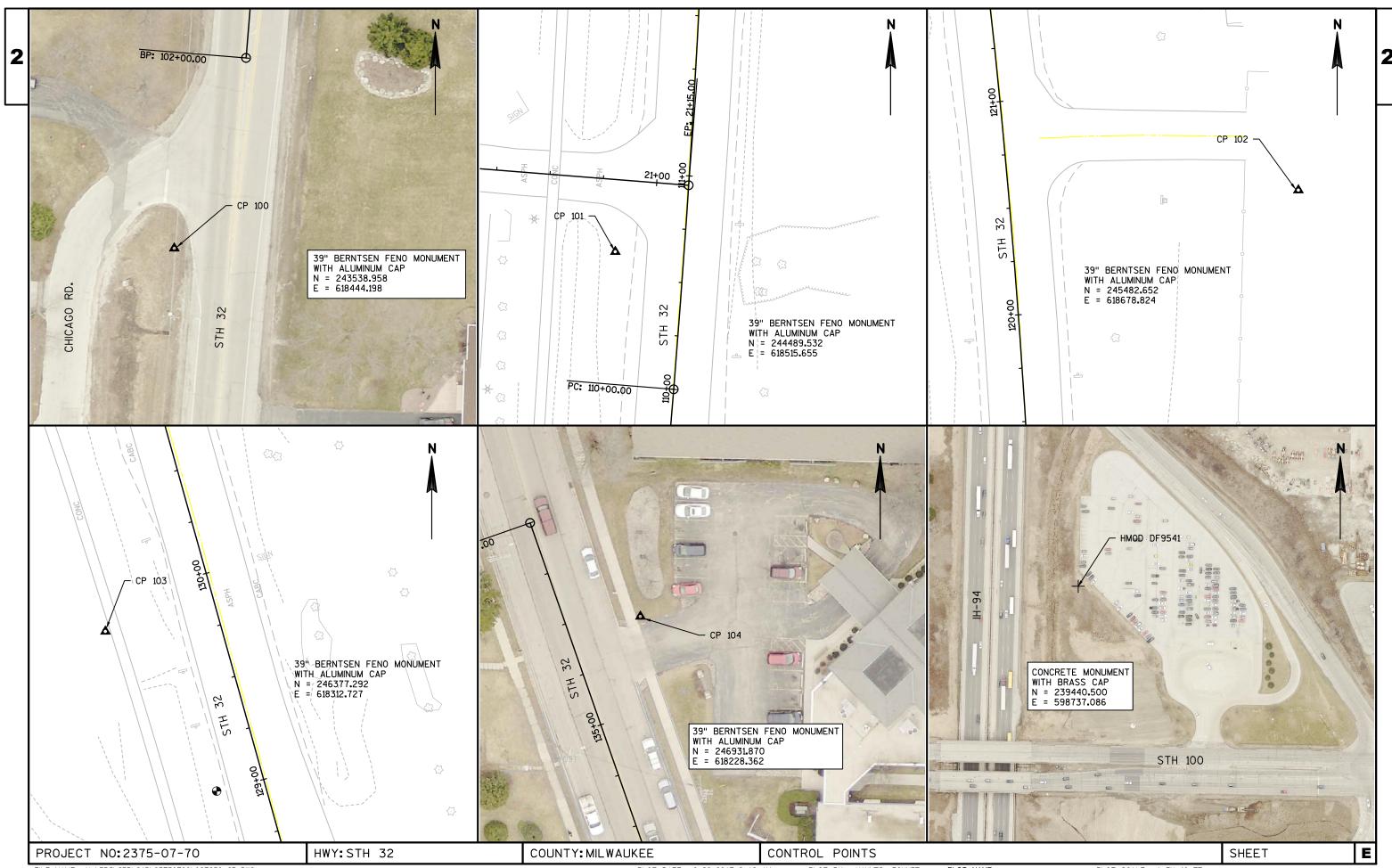


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Line Item Item Description Unit Total Qty 0002 201.0105 Clearing STA 3.000 3.000 0004 201.0120 Clearing ID 42.000 42.000 0006 201.0205 Grubbing STA 3.000 3.000 0008 201.0220 Grubbing ID 42.000 42.000 0010 204.0115 Removing Asphaltic Surface Butt Joints SY 554.000 554.000 0012 204.0115 Removing Asphaltic Surface Milling SY 1,835.000 1,835.000 0014 204.0130 Removing Curb LF 25.000 25.000 0016 204.0150 Removing Curb & Gutter LF 135.000 135.000 0018 204.0155 Removing Concrete Sidewalk SY 17.000 17.000 0020 205.0100 Excavation Common CY 1,603.000 1,603.000 0022 213.0100 Finishing Roadway (project) 01. 2375-07-70 EACH 1.00
0002 201.0105 Clearing STA 3.000 3.000 0004 201.0120 Clearing ID 42.000 42.000 0006 201.0205 Grubbing STA 3.000 3.000 0008 201.0220 Grubbing ID 42.000 42.000 0010 204.0115 Removing Asphaltic Surface Butt Joints SY 554.000 554.000 0012 204.0120 Removing Asphaltic Surface Milling SY 1,835.000 1,835.000 0014 204.0130 Removing Curb LF 25.000 25.000 0016 204.0150 Removing Curb & Gutter LF 135.000 135.000 0018 204.0155 Removing Concrete Sidewalk SY 17.000 17.000 0020 205.0100 Excavation Common CY 1,603.000 1,603.000 0022 213.0100 Finishing Roadway (project) 01. 2375-07-70 EACH 1.000 1.000 0024 305.0120 Base Aggregate Dense 3/4-Inch TON
0004 201.0120 Clearing ID 42.000 42.000 0006 201.0205 Grubbing STA 3.000 3.000 0008 201.0220 Grubbing ID 42.000 42.000 0010 204.0115 Removing Asphaltic Surface Butt Joints SY 554.000 554.000 0012 204.0120 Removing Asphaltic Surface Milling SY 1,835.000 1,835.000 0014 204.0130 Removing Curb LF 25.000 25.000 0016 204.0155 Removing Curb & Gutter LF 135.000 17.000 0018 204.0155 Removing Concrete Sidewalk SY 17.000 17.000 0020 205.0100 Excavation Common CY 1,603.000 1,603.000 0022 213.0100 Finishing Roadway (project) 01. 2375-07-70 EACH 1.000 1.000 0024 305.0120 Base Aggregate Dense 3/4-Inch TON 1,544.000 1,544.000 0028 455.0605 Tack Coat <td< th=""></td<>
0004 201.0120 Clearing ID 42.000 42.000 0006 201.0205 Grubbing STA 3.000 3.000 0008 201.0220 Grubbing ID 42.000 42.000 0010 204.0115 Removing Asphaltic Surface Butt Joints SY 554.000 554.000 0012 204.0120 Removing Asphaltic Surface Milling SY 1,835.000 1,835.000 0014 204.0130 Removing Curb LF 25.000 25.000 0016 204.0155 Removing Curb & Gutter LF 135.000 17.000 0018 204.0155 Removing Concrete Sidewalk SY 1,700 17.000 0020 205.0100 Excavation Common CY 1,603.000 1,603.000 0022 213.0100 Finishing Roadway (project) 01. 2375-07-70 EACH 1.000 1.000 0024 305.0110 Base Aggregate Dense 3/4-Inch TON 1,544.000 1,544.000 0028 455.0605 Tack Coat
20008 201.0220 Grubbing ID 42.000 42.000 201.0220 Removing Asphaltic Surface Butt Joints SY 554.000 554.000 201.022 204.0120 Removing Asphaltic Surface Milling SY 1,835.000 1,835.000 201.014 204.0130 Removing Curb LF 25.000 25.000 201.015 Removing Curb & Gutter LF 135.000 135.000 201.018 204.0155 Removing Concrete Sidewalk SY 17.000 17.000 202.0100 Excavation Common CY 1,603.000 1,603.000 202.2 213.0100 Finishing Roadway (project) 01. 2375-07-70 EACH 1.000 1.000 202.0 305.0110 Base Aggregate Dense 3/4-Inch TON 180.000 180.000 202.0 305.0120 Base Aggregate Dense 1 1/4-Inch TON 1,544.000 1,544.000 202.0 455.0605 Tack Coat GAL 330.000 330.000 203.0 460.2000 Incentive Density HMA Pavement <t< td=""></t<>
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010 204.0115 Removing Asphaltic Surface Butt Joints SY 554.000 554.000 012 204.0120 Removing Asphaltic Surface Milling SY 1,835.000 1,835.000 014 204.0130 Removing Curb LF 25.000 25.000 016 204.0150 Removing Curb & Gutter LF 135.000 135.000 018 204.0155 Removing Concrete Sidewalk SY 17.000 17.000 020 205.0100 Excavation Common CY 1,603.000 1,603.000 022 213.0100 Finishing Roadway (project) 01. 2375-07-70 EACH 1.000 1.000 024 305.0110 Base Aggregate Dense 3/4-Inch TON 180.000 180.000 026 305.0120 Base Aggregate Dense 1 1/4-Inch TON 1,544.000 1,544.000 028 455.0605 Tack Coat GAL 330.000 330.000 030 460.2000 Incentive Density HMA Pavement DOL 1,265.000 1,265.000
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16 204.0150 Removing Curb & Gutter LF 135.000 135.000
018 204.0155 Removing Concrete Sidewalk SY 17.000 17.000 020 205.0100 Excavation Common CY 1,603.000 1,603.000 022 213.0100 Finishing Roadway (project) 01. 2375-07-70 EACH 1.000 1.000 024 305.0110 Base Aggregate Dense 3/4-Inch TON 180.000 180.000 026 305.0120 Base Aggregate Dense 1 1/4-Inch TON 1,544.000 1,544.000 028 455.0605 Tack Coat GAL 330.000 330.000 030 460.2000 Incentive Density HMA Pavement DOL 1,265.000 1,265.000
20 205.0100 Excavation Common CY 1,603.000 1,603.000 22 213.0100 Finishing Roadway (project) 01. 2375-07-70 EACH 1.000 1.000 24 305.0110 Base Aggregate Dense 3/4-Inch TON 180.000 180.000 26 305.0120 Base Aggregate Dense 1 1/4-Inch TON 1,544.000 1,544.000 28 455.0605 Tack Coat GAL 330.000 330.000 30 460.2000 Incentive Density HMA Pavement DOL 1,265.000 1,265.000
22 213.0100 Finishing Roadway (project) 01. 2375-07-70 EACH 1.000 1.000 24 305.0110 Base Aggregate Dense 3/4-Inch TON 180.000 180.000 26 305.0120 Base Aggregate Dense 1 1/4-Inch TON 1,544.000 1,544.000 28 455.0605 Tack Coat GAL 330.000 330.000 30 460.2000 Incentive Density HMA Pavement DOL 1,265.000 1,265.000
24 305.0110 Base Aggregate Dense 3/4-Inch TON 180.000 180.000 26 305.0120 Base Aggregate Dense 1 1/4-Inch TON 1,544.000 1,544.000 28 455.0605 Tack Coat GAL 330.000 330.000 30 460.2000 Incentive Density HMA Pavement DOL 1,265.000 1,265.000
26 305.0120 Base Aggregate Dense 1 1/4-Inch TON 1,544.000 1,544.000 28 455.0605 Tack Coat GAL 330.000 330.000 30 460.2000 Incentive Density HMA Pavement DOL 1,265.000 1,265.000
28 455.0605 Tack Coat GAL 330.000 330.000 30 460.2000 Incentive Density HMA Pavement DOL 1,265.000 1,265.000
30 460.2000 Incentive Density HMA Pavement DOL 1,265.000 1,265.000
34 522.0118 Culvert Pipe Reinforced Concrete Class III 18-Inch LF 8.000 8.000
36 522.1018 Apron Endwalls for Culvert Pipe Reinforced Concrete EACH 1.000 1.000 18-Inch
38 601.0411 Concrete Curb & Gutter 30-Inch Type D LF 108.000 108.000
0 602.0410 Concrete Sidewalk 5-Inch SF 152.000 152.000
602.0505 Curb Ramp Detectable Warning Field Yellow SF 16.000 16.000
618.0100 Maintenance And Repair of Haul Roads (project) 01. EACH 1.000 1.000 2375-07-70
046 619.1000 Mobilization EACH 1.000 1.000
8 624.0100 Water MGAL 19.000 19.000
50 625.0500 Salvaged Topsoil SY 5,117.000 5,117.000
2 627.0200 Mulching SY 2,763.000 2,763.000
4 628.1504 Silt Fence LF 1,170.000 1,170.000
56 628.1520 Silt Fence Maintenance LF 1,170.000 1,170.000
958 628.1905 Mobilizations Erosion Control EACH 2.000 2.000
60 628.1910 Mobilizations Emergency Erosion Control EACH 3.000 3.000
062 628.2006 Erosion Mat Urban Class I Type A SY 2,354.000 2,354.000
64 628.7010 Inlet Protection Type B EACH 3.000 3.000
66 628.7015 Inlet Protection Type C EACH 1.000 1.000
068 628.7504 Temporary Ditch Checks LF 24.000 24.000
70 628.7555 Culvert Pipe Checks EACH 12.000 12.000
072 629.0210 Fertilizer Type B CWT 4.000 4.000
1074 630.0130 Seeding Mixture No. 30 LB 91.000 91.000
0076 630.0200 Seeding Temporary LB 136.000 136.000

Item	Item Description			
	nom Becomplien	Unit	Total	Qty
634.0618	Posts Wood 4x6-Inch X 18-FT	EACH	41.000	41.000
637.2210	Signs Type II Reflective H	SF	224.900	224.900
	• ,,			25.900
	- · · ·			70.250
				2.000
				36.000
				29.000
				1.000
	• •			1.000
				4,440.000
				1,200.000
				14.000
	•			5,060.000
	* · ·			140.000
010.0127.0	70		1 10.000	1 10.000
646.2304.S	Pavement Marking Grooved Wet Reflective Epoxy 4-Inch	LF	4,695.000	4,695.000
647.0166		EACH	1.000	1.000
	. , , , ,			1.000
	. ,			40.000
				100.000
				114.000
				0.490
				7,524.000
				100.000
				2.000
				108.000
	-			5,240.000
	- '			306.000
	•			28.000
	•			1.000
				1.000
	•			347.000
	·			370.000
	·			4,740.000
	9			300.000
				300.000
SPV.0105	·	LS	1.000	1.000
	637.2215 637.2230 638.2102 638.2602 638.3000 642.5001 643.0100 643.0300 643.0900 643.1050 646.0106 646.0127.S	637.2215 Signs Type II Reflective H Folding 637.2230 Signs Type II Reflective F 638.2102 Moving Signs Type II 638.2602 Removing Signs Type II 638.3000 Removing Small Sign Supports 642.5001 Field Office Type B 643.0100 Traffic Control (project) 01. 2375-07-70 643.0300 Traffic Control Signs 643.0900 Traffic Control Signs 643.0150 Traffic Control Signs PCMS 646.0127.S Pavement Marking Epoxy 4-Inch 646.0127.S Pavement Marking Grooved Epoxy 8-Inch 01. 2375-07-70 646.2304.S Pavement Marking Grooved Wet Reflective Epoxy 4-Inch 647.0166 Pavement Marking Words Epoxy 647.0356 Pavement Marking Stop Line Epoxy 18-Inch 647.0726 Pavement Marking Stop Line Epoxy 18-Inch 647.0726 Pavement Marking Diagonal Epoxy 12-Inch 647.0796 Pavement Marking Diagonal Epoxy 12-Inch 648.0100 Locating No-Passing Zones 649.0400 Temporary Pavement Marking Removable Tape 4-Inch 650.4000 Construction Staking Storm Sewer 650.5500 Construction Staking Storm Sewer 650.5500 Construction Staking Storm Sewer 650.9920 Construction Staking Slope Stakes 652.0225 Conduit Rigid Nonmetallic Schedule 40 2-Inch 652.0800 Conduit Loop Detector 653.0135 Pull Boxes Steel 24x36-Inch 653.0905 Removing Pull Boxes 655.0700 Loop Detector Wire 690.0150 Sawing Asphalt ASP.1T0A On-the-Job Training Apprentice at \$5.00/HR	637.2215 Signs Type II Reflective H Folding SF 637.2230 Signs Type II Reflective F SF 638.2102 Moving Signs Type II EACH 638.2602 Removing Signs Type II EACH 638.3000 Removing Small Sign Supports EACH 642.5001 Field Office Type B EACH 643.0100 Traffic Control Drums DAY 643.0300 Traffic Control Drums DAY 643.0900 Traffic Control Signs DAY 643.1050 Traffic Control Signs PCMS DAY 646.0106 Pavement Marking Epoxy 4-Inch LF 646.0127.S Pavement Marking Grooved Epoxy 8-Inch 01. 2375-07-70 LF 646.0127.S Pavement Marking Grooved Wet Reflective Epoxy 4-Inch LF 647.0166 Pavement Marking Words Epoxy EACH 647.0356 Pavement Marking Words Epoxy EACH 647.0726 Pavement Marking Diagonal Epoxy 12-Inch LF 647.0796 Pavement Marking Crosswalk Epoxy 24-Inch LF 648.0100 Locating No-Passing Zones MI 649.0400 Temporary Pavement Marking Removable Tape 8-Inch	637.2215 Signs Type II Reflective F SF 70.250 637.2230 Signs Type II Reflective F SF 70.250 638.2102 Moving Signs Type II EACH 2.000 638.2602 Removing Signs Type II EACH 36.000 638.3000 Removing Small Sign Supports EACH 29.000 642.5001 Field Office Type B EACH 1.000 643.0100 Traffic Control (project) 01. 2375-07-70 EACH 1.000 643.0300 Traffic Control Drums DAY 4,440.000 643.050 Traffic Control Signs DAY 1,200.000 645.0106 Pavement Marking Epoxy 4-Inch LF 5,060.000 646.0127.S Pavement Marking Grooved Epoxy 8-Inch 01. 2375-07-70 LF 140.000 647.0166 Pavement Marking Grooved Wet Reflective Epoxy 4-Inch LF 4,695.000 647.0166 Pavement Marking Arrows Epoxy Type 2 EACH 1.000 647.0366 Pavement Marking Bytop Line Epoxy 18-Inch LF 40.000 647.0726 Pavement Marking Rowall Epoxy 22-Inch

	1	08/08/20	17 13:42:53	Г
3	Estimate Of Quantities	Page	3	3

2375-07-70

	LOCATION		REMOVING CURB 204.0130 LF	REMOV CURB & GU 204.019 LF	JTTER			REMOVING CONCRETE SIDEWALK		
3	STATION 106+93 TO STATION 10 STATION 110+80 TO STATION 11 STATION 118+00 TO STATION 11 STATION 131+70 TO STATION 13	1+20 LT 8+40 LT	 15 10 	95 40			LOCATION STATION 124+63. 48' LT STATION 125+16, 48' LT	204.0155 SY 8 9		3
_	TOTAL		25	135			TOTAL	17		
	LOCATION	CLEARING 201.0105 STA	CLEARING 201.0120 ID	GRUBBING 201.0205 STA	GRUBBING 201.0220 ID					
	STATION 110+00 TO 111+00 RT STATION 129+00 TO 130+00 RT STATION 117+00 TO 118+00 LT	1 1 1	 42	1 1 1	 42	LOCATION	FIELD OFFICE TYPE B 642.5001 EACH	LOCATION	MOBILIZATION 619.1000 EACH	
	TOTAL	3	42	3	42	PROJECT LIMITS TOTAL	1	PROJECT LIMITS TOTAL	1	
			REMOVING	ASPHALTIC SU MILLING 204.0120	JRFACE					
	LOCATION			SY						
	STATION 106+35 TO STATION 11 STATION 109+00 TO STATION 11 STATION 111+25 TO STATION 11	10+60 LT		112 38 147					SPHALTIC SURFACE TT JOINTS	
	STATION 113+25 TO STATION 12	20+50 RT		250					204.0115	
	STATION 113+30 TO STATION 11			278		LOCATIO	N		SY	.
	STATION 118+50 TO STATION 12 STATION 120+50 TO STATION 12			225 136			10+75 TO STATION 111+25 LT		77	
	STATION 122+25 TO STATION 12			210			12+75 TO STATION 113+25 LT 17+89 TO STATION 118+50 LT		37 88	
	STATION 122+30 TO STATION 12			63			20+50 TO STATION 121+15 RT		72	
	STATION 125+25 TO STATION 12			65			21+65 TO STATION 122+21 RT		89	-
	STATION 126+70 TO STATION 13 STATION 128+50 TO STATION 13			140 80			21+70 TO STATION 122+26 LT		70	
	STATION 123+30 TO STATION 13			91			24+60 TO STATION 125+25 RT 31+10 TO STATION 131+50 RT		81 40	
	TOTAL			1835		TOTAL	CITIO TO CIATION 131730 IXI		554	
}	PROJECT NO: 2375-07-70	HWY: STH 3	32	COUNT	TY: MILWAUKEE	MISCELLANEOU	IS QUANTITIES		SHEET:	ΤE

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	FINISHING ROADW (2375-07-70) 213.0100	/AY		LOCATION		4 LT 58-28 S 460.5224 TON	TACK COAT 455.0605 GAL
LOCATION	EACH				35 TO STATION 113+00	327	85
PROJECT LIMITS	1				00 TO STATION 118+00	259	67
					00 TO STATION 125+00 00 TO STATION 132+10	413 266	108 70
TOTAL	1				00 TO STATION 132+10	200	70
				TOTAL		1265	330
5		RAMP DETECTA IING FIELD YELL 602.0505 SF 8		LOCATION	ION 122:10 LT	30-INCH 601. L	URB & GUTTER TYPE D 0411 .F
STATION 125+16, 48' LT	80	8		STATION 131+02 TO STAT	ION 132+10, LT	1	08
TOTAL	152	16		TOTAL		1	08
LOCATION	BASE AGGRE 3/4 - INCH 305.0110 TON	1 1/4 - INCH 305.0120 TON	WATER 624.0100 MGAL	LOCATION	CULVERT PIPE REINFORCED CONCRETE CLASS III 18-INCH 522.0118 LF	APRON ENDV CULVER REINFORCED 18-IN 522.10 EAC	T PIPE CONCRETE CH 018
STATION 106+35 TO STATION 113+00	55	412	5	STATION 128+91, 34' RT	8	1	
STATION 113+00 TO STATION 118+00	45	375	4				
STATION 125+00 TO STATION 125+00	70 10	454 303	6	TOTAL	8	1	
	10	ასა		EXTEND EXISTING PIPE. END O	F APRON ENDWALL AT STATION	√ 128+91.4, 43.8′ RT	, ELEVATION 697.68
STATION 125+00 TO STATION 132+10 TOTAL	180	1544	19				

LOCATION	INLET PROTECTION TYPE B 628.7010 EACH	INLET PROTECTION TYPE C 628.7015 EACH	CULVERT PIPE CHECKS 628.7555 EACH	TEMPORARY DITCH CHECKS 628.7504 LF
STATION 106+04 RT	1			
STATION 106+10 LT	1			
STATION 106+30 LT			1	
STATION 108+30 RT			1	
STATION 111+25 LT			1	
STATION 117+75 LT			1	
STATION 121+65 LT			1	
STATION 122+30 LT			1	
STATION 126+55 LT			2	
STATION 127+70 LT				12
STATION 127+70 RT		1		
STATION 128+50 LT	1			
STATION 128+95 RT			2	
STATION 129+95 LT				12
STATION 131+50 RT			2	
TOTAL	3	1	12	24

	SAWING ASPHALT 690.0150
LOCATION	<u>LF</u>
STATION 106+35 TO STATION 113+00	1250
STATION 113+00 TO STATION 118+00	940
STATION 118+00 TO STATION 125+00	1490
STATION 125+00 TO STATION 132+10	1060
TOTAL	4740

_	MOBIL	LIZATIONS
	EROSION	EMERGENCY
	CONTROL	EROSION
	628.1905	628.191
LOCATION	EACH	EACH
ENTIRE PROJECT	2	3
TOTAL	2	3

LOCATION	SALVAGED TOPSOIL 625.0500 SY	MULCHING 627.0200 SY	EROSION MAT URBAN CLASS I TYPE A 628.2006 SY	SILT FENCE 628.1504 LF	SILT FENCE MAINTENANCE 628.1520 LF	FERTILIZER TYPE I 629.0210 CWT	SEEDING B MIXTURE NO. 30 630.0130 LB	SEEDING TEMPORARY 630.0200 LB
STATION 106+35 TO STATION 113+00	1515	1023	492			1	28	42
STATION 113+00 TO STATION 118+00	877	50	827	285	285	1	14	21
STATION 118+00 TO STATION 125+00	1650	1232	418	225	225	1	30	45
STATION 125+00 TO STATION 132+10	1075	457	618	660	660	1	19	28
TOTAL	5117	2763	2354	1170	1170	4	91	136

PROJECT NO: 2375-07-70 HWY: STH 32 COUNTY: MILWAUKEE MISCELLANEOUS QUANTITIES SHEET: **E**

FILE NAME : _____ PLOT DATE : ____ PLOT BY : ____ PLOT NAME : ____ PLOT SCALE : 1:1

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				PAVEI	MENT MARKING			
LOCATION	EPOXY 4-INCH 646.0106 LF	GROOVED WET REFLECTIVE EPOXY 4-INCH 646.2304.S LF		ARROWS EPOXY TYPE 2 647.0166 EACH	WORDS EPOXY 647.0356 EACH	STOP LINE EPOXY 18-INCH 647.0566 LF	DIAGONAL EPOXY 12-INCH 647.0726 LF	CROSSWALK EPOXY 24-INCH 647.0796 LF
STATION 106+35 TO STATION 113+00	1240	1055	140	1	1	40	100	114
STATION 113+00 TO STATION 118+00	1000	980						
STATION 118+00 TO STATION 125+00	1400	1400						
STATION 125+00 TO STATION 132+10	1420	1260			<u></u>			
TOTAL	5060	4695	140	1	1	40	100	114
	STORN SEWER	R CURB & GI	TER AND S JTTER S	LOPE FAKES				NCE AND REPAIR IAUL ROADS
LOCATION	650.400 EACH		00 65	50.9920 LF			6	818.0100
STATION 128+90, 34' RT	1	<u>L1</u>		<u></u>		LOCATION		EACH
STATION 120+90, 34 KT STATION 130+93 TO STATION 132+10.60, 22' LT		108		 		2375-07-70		
STATION 106+00 TO 132+20								
STATION 106+00 TO 132+20				5240		TOTAL		1
TOTAL	1	108		5240				
	TEMPC	RARY PAVEMEN REMOVABLE						
		REIVIOVABLE						
	TAPE		APE				10	CATING NO-
	4-INCH	T. 8-I	APE INCH				_	OCATING NO- SSING ZONES
	4-INCH 649.0400	T. 8-1 649	APE INCH 9.0801				_	OCATING NO- SSING ZONES 648.0100
LOCATION	4-INCH 649.0400 LF	T. 8-I 649	APE INCH 9.0801 LF			<u>LOCATION</u>	PAS	SSING ZONES
STATION 106+35 TO STATION 113+00	4-INCH 649.0400 <u>LF</u> 3704	T. 8-I 649	APE INCH 9.0801			<u>LOCATION</u> PROJECT L	PAS	SSING ZONES 648.0100
STATION 106+35 TO STATION 113+00 STATION 113+00 TO STATION 118+00	4-INCH 649.0400 LF 3704 1000	T. 8-I 649	APE INCH 9.0801 LF				PAS	SSING ZONES 648.0100 MI
STATION 106+35 TO STATION 113+00 STATION 113+00 TO STATION 118+00 STATION 118+00 TO STATION 125+00	4-INCH 649.0400 <u>LF</u> 3704 1000 1400	T. 8-I 649	APE INCH 9.0801 LF	<u> </u>			PAS	SSING ZONES 648.0100 MI
STATION 106+35 TO STATION 113+00 STATION 113+00 TO STATION 118+00	4-INCH 649.0400 LF 3704 1000	T. 8-I 649	APE INCH 0.0801 LF 100			PROJECT L	PAS	SSING ZONES 648.0100 MI 0.49
STATION 106+35 TO STATION 113+00 STATION 113+00 TO STATION 118+00 STATION 118+00 TO STATION 125+00	4-INCH 649.0400 <u>LF</u> 3704 1000 1400	T. 8-I 649	APE INCH 9.0801 LF 100 			PROJECT L	PAS	SSING ZONES 648.0100 MI 0.49
STATION 106+35 TO STATION 113+00 STATION 113+00 TO STATION 118+00 STATION 118+00 TO STATION 125+00 STATION 125+00 TO STATION 132+10	4-INCH 649.0400 <u>LF</u> 3704 1000 1400 1420	T. 8-I 649	APE INCH 9.0801 LF 100 			PROJECT L	PAS	SSING ZONES 648.0100 MI 0.49

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Division	From/To Station	Location	205.0100 Common Excavation	Available Material (1)	Unexpanded Fill	Expanded Fill Factor	Mass Ordinate +/- (2)	Waste	208.0100 Borrow	Comment:
Division 1						1.25				
Project Limits	106+35.84 to 132+13.07		1,603	1,603	25	31	1,572	1,572	0	
Division 1 Subtotal			1,603	1,603	25	31	1,572	1,572	0	
Grand Total			1,603	1,603	25	31	1,572	1,572	0	
Total Common Exc			1,603							

Notes:

(1) Available Material = Cut - Salvaged/Unusuable Pavement Material

(2) 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.

TRAFFIC CONTROL
(2375-07-70)
643.0100
LOCATION EACH
ENTIRE PROJECT 1

TOTAL 1

	_	TRAFFIC CONTROL							
		DRUMS	SIGNS	PCMS					
	NUMBER	643.0300	643.0900	643.1050					
LOCATION	OF DAYS	DAY	DAY	DAY					
ENTIRE PROJECT									
STAGE 1	30	1500	600	14					
STAGE 2	30	2940	600						
TOTAL	60	4440	1200	14					

PROJECT NO: 2375-07-70 HWY: STH 32 COUNTY: MILWAUKEE MISCELLANEOUS QUANTITIES SHEET: **E**

PLOT DATE : _____ PLOT NAME : ____ PLOT NAME : ____ PLOT SCALE : 1:1

SIGNS	

	TYPE II PERMANENT SIGNIN	G										2375-07-70 STH :	32 -07-70 STH 32
١					637.2210	637.2230	634.0618	634.0622	634.0814	638.2102			637.2215
١													SIGNS
				TYPE II	SIGNS	SIGNS	POSTS	POSTS	POSTS	MOVE	MOUNT		TYPE II
╛		SIGN		SIGN	TYPE II	TYPE II	WOOD	WOOD	TUBULAR	SIGNS	ON SAME		REFLC
ı	SIGN	CODE	SIGN	SIZE	REFLC	REFLC	4"X 6"x18'	4"X 6"x22'	STEEL	TYPE II	POST AS		н
	NO.	& SIZE	MESSAGE	W X H	Н	F			2"x2"x14'		SIGN #		FOLDING
3				[IN.] x [IN.]	[SF]	[SF]	[EA]	[EA]	[EA]	[EA]		REMARKS / NEW SIGN LOCATION	[SF]
ı													
4	1	R2-1 (2S)	SPEED LIMIT 40	24 X 30	5.000		1						
۱	2	D1-61	E. Puetz Rd (Double Arrows)	66 X 24	11.000		2						
۱	3	J4-1 (2S)		24 X 36	6.000		1						
۱		M3-3		24 x 12									
۱		M1-6B		24 x 24									
۱	4	W14-3 (2S)		48 X 36		6.000	1						
۱	5	M1-94H (2S)	E. Puetz Rd	54 X 18	6.750							MOUNT ON MAST ARM	
۱	6	M1-94H (2S)	E. Puetz Rd	54 X 18	6.750							MOUNT ON MAST ARM	
۱	7	J3-1 (2S)		24 X 45	7.500		1						
۱		M1-6B		24 x 24									
۱		M6-4		21 x 21									
	8	R1-1F (2S)		30 X 30								MOUNT ON SIGNAL POLE	5.180
	9	R1-1F (2S)		30 X 30								MOUNT ON SIGNAL POLE	5.180
	10	R1-1F (2S)		30 X 30								MOUNT ON SIGNAL POLE	5.180
	11	R1-1F (2S)	NAME OF STATE OF STAT	30 X 30								MOUNT ON SIGNAL POLE	5.180
	12	M1-94S (2S)	WIS 32 Chicago Rd	72 X 18	0.000							MOUNT ON MAST ARM	5.180
۱	13	M1-94S (2S)	WIS 32 Chicago Rd	72 X 18	9.000							MOUNT ON MAST ARM	
۱	14	J3-1 (2S)		24 X 45	7.500		1						
۱		M1-6B		24 x 24									
	45	M6-4		21 x 21			1						
۱	15	J4-1 (2S)		24 X 36	6.000		1						
١		M3-1 M1-6B		24 x 12									
١	40			24 x 24									
	16 17	W14-3 (2S) W11-2 (2S)		48 X 36 30 X 30		6.000 6.250	1						
	17	NOT USED		30 X 30		0.250							
	19	W3-3 (2S)		36 X 36		9.000	1						
	19A	D1-61	E. Puetz Rd (Double Arrows)	66 X 24	11.000	9.000	2						
	20	R2-1 (2S)	SPEED LIMIT 40	24 X 30	5.000		1						"
	20		OI LED LIIVII I 40	30 X 30	5.000		1						
	21	R1-1 (2S)		JU A 30	5.180		<u> </u>	<u> </u>	<u> </u>				

SHEET 1 OF 3

Е SHEET: PROJECT NO: 2375-07-70 HWY: STH 32 COUNTY: MILWAUKEE PERMANENT SIGNING QUANTITIES

637.2215SIGNS

TYPE II

REFLC

Н

FOLDING

[SF]

2375-07-70 STH 32 -07-70 STH 32

REMARKS / NEW SIGN LOCATION

3	SIGN NO.	SIGN CODE & SIZE	SIGN MESSAGE	W [IN.]	TYPE I SIGN SIZE X x		SIGNS TYPE II REFLC H [SF]	SIGNS TYPE II REFLC F [SF]	POSTS WOOD 4"X 6"x18' [EA]	POSTS WOOD 4"X 6"x22'	POSTS TUBULAR STEEL 2"x2"x14' [EA]	MOVE SIGNS TYPE II [EA]	MOUNT ON SAME POST AS SIGN #
	22	W14-3 (2S)		48	Х	36		6.000	1				
	23	W11-2 (2S)		30	X	30		6.250	1				
	24	NOT USED											
	25	R2-1 (2S)	SPEED LIMIT 40	24	Χ	30	5.000		1				
	26	R2-1 (2S)	SPEED LIMIT 40	24	Х	30	5.000		1				
	27	R1-1 (2S)		30	Χ	30	5.180		1				
	28	R1-1 (2S)		30	Χ	30	5.180		1				
	29	W14-3 (2S)		48	Χ	36		6.000	1				
	30	R1-1 (2S)		30	Χ	30	5.180		1				
	31	D1-1	Forest Hill Ave (Left Arrow)	96	Χ	15	10.000		2				
	32	D12-2A (2S)		60	Χ	42	17.500		2				
	33	I2-3 (2S)	SOUTH MILWAUKEE Population 21156	108	Χ	24	18.000		2				
	34	R2-1 (2S)	SPEED LIMIT 40	24	Х	30	5.000		1				
	35	J4-1 (2S)		24	Х	36	6.000		1				
		M3-3		24	х	12							

24

24

72

30

30

24

30

24

36

x 24

30

24

30

30

12

30

12

48

5.000

12.000

5.180

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12.000

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637.2210

637.2230

634.0618

1

2

1

1

634.0622

SHEET 2 OF 3

PROJECT NO: 2375-07-70 HWY: STH 32 COUNTY: MILWAUKEE PERMANENT SIGNING QUANTITIES SHEET: **E**

6.250

2.000

6.250

2.000

M1-6B

SPEED LIMIT 30

NO PARKING SIGN

Forest Hill Ave (Right Arrow)

OAK CREEK Population 34451

R2-1 (2M)

I2-3 (2S)

R1-1 (2S)

W11-2 (2S)

W16-7L (2S)

W11-2 (2S)

W16-7L (2S)

SP

155-56

D1-61

TYPE II PERMANENT SIGNING

36

37

38

39

40

41

42

43

44

45

39

41

1

1

638.2102

634.0814

SHEET 5 OF 6 - REUSE POST SHEET 5 OF 6 - REUSE POST

SHEET 6 OF 6

2375-07-70 STH 32 -07-70 STH 32

						637.2210	637.2230	634.0618	634.0622	634.0814	638.2102			637.2215
Ш														SIGNS
Ш				TYP	EII	SIGNS	SIGNS	POSTS	POSTS	POSTS	MOVE	MOUNT		TYPE II
┨┃		SIGN		SIC	€N	TYPE II	TYPE II	WOOD	WOOD	TUBULAR	SIGNS	ON SAME		REFLC
$\ \ $	SIGN	CODE	SIGN	SIZ	ZE	REFLC	REFLC	4"X 6"x18'	4"X 6"x22'	STEEL	TYPE II	POST AS		Н
Ш	NO.	& SIZE	MESSAGE	W >	К	Н	F			2"x2"x14'		SIGN#		FOLDING
				[IN.] >	([IN.]	[SF]	[SF]	[EA]	[EA]	[EA]	[EA]		REMARKS / NEW SIGN LOCATION	[SF]
	46	J4-1 (2S)		24 >	(36	6.000		1					SHEET 6 OF 6	
11		M3-1		24 >	12									
Ш		M1-6B		24 >	24									
Ш	47	M1-93 (2S)		24 >	(24	4.000						46	MOUNT BELOW J4-1	
Ш	48	M1-93 (2S)		24 >	(24	4.000						35	MOUNT BELOW J4-1; SHEET 5 OF 6	
	49	M1-93 (2S)		24 >	(24	4.000						3	MOUNT BELOW J4-1; SHEET 1 OF 6	
Ш	50	M1-93 (2S)		24 >	(24	4.000						15	MOUNT BELOW J4-1; SHEET 1 OF 6	
Ш	51	W11-2 (2S)		30 >	(30		6.250	1					SHEET 5 OF 6	
	52	W16-9P (2S)		24 >	(12		2.000					51	SHEET 5 OF 6	
		UNDISTRIBUTED			-			1						
		TOTALS		·	·	224.900	70.250	41	0	0	2			25.900

SHEET 3 OF 3

Е PROJECT NO: 2375-07-70 COUNTY: MILWAUKEE PERMANENT SIGNING QUANTITIES SHEET: HWY: STH 32

TYPE II PERMANENT SIGNING

TYPE II SIGN REMOVALS	5-07-70 STH 32
-----------------------	----------------

			638.2602	638.3000	
			REMOVING	REMOVING	
	SIGN		SIGNS	SMALL	
SIGN	CODE	SIGN	TYPE II	SIGN	
NO.	& SIZE	MESSAGE		SUPPORTS	
			[EA]	[EA]	REMARKS / NEW SIGN LOCATION
1R	R2-1	SPEED LIMIT 40	1	1	
2R	J4-1		1	1	
	M3-3				
	M1-6B				
3R	W14-3		1	1	
4R	R1-1F		1		
5R	J3-1		1	1	
	M1-6B				
	M6-4				
6R	M1-94H		1		
7R	M1-94H		1		
8R	R1-1F		1		
9R	R1-1F		1		
10R	R1-1F		1		
11R	J3-1		1	1	
	M1-6B				
	M6-4				
12R	W14-3		1	1	
13R	W11-2		1	1	
14R	R2-1	SPEED LIMIT 40	1	1	
15R	R1-1		1	1	
16R	W3-3		1	1	
17R	W3-3		1	1	
18R	W14-3		1	1	

SHEET 1 OF 3

PROJECT NO: 2375-07-70 HWY: STH 32 COUNTY: MILWAUKEE SIGN REMOVAL QUANTITIES SHEET: **E**

			000 0000	620 0000	
			638.2602	638.3000	
			DEMOV/INIO	DEMOV/MO	
	CION		REMOVING	REMOVING	
0.01	SIGN	0.00	SIGNS	SMALL	
SIGN	CODE	SIGN	TYPE II	SIGN	
NO.	& SIZE	MESSAGE		SUPPORTS	
			[EA]	[EA]	REMARKS / NEW SIGN LOCATION
19R	W11-2		1	1	
20R	R2-1	SPEED LIMIT 40	1	1	
21R	R2-1	SPEED LIMIT 40	1	1	
22R	R1-1		1	1	
23R	R1-1		1	1	
24R		REDUCED SPEED AHEAD	1		
25R	W14-3		1	1	
26R	W11-2		1	1	
27R	W16-9P				REMOVED WITH SIGN NO. 26R
28R	R1-1		1	1	
29R	D12-2A		1	2	
30R	12-3	SOUTH MILWAUKEE Population 21156	1	2	
31R	R2-1	SPEED LIMIT 40	1	1	
32R	J4-1		1	1	
	M3-3				
	M1-6B				
33R	M1-93				REMOVED WITH SIGN NO. 32R
34R	R2-1	SPEED LIMIT 30	1		SHEET 6 OF 6
35R	12-3	OAK CREEK Population 34451	1	2	
36R	R1-1		1	1	
37R	W11-2		1		
38R	W16-7L				REMOVED WITH SIGN NO. 37R

SHEET 2 OF 3

PROJECT NO: 2375-07-70 HWY: STH 32 COUNTY: MILWAUKEE SIGN REMOVAL QUANTITIES SHEET: **E**

3

TYPE II SIGN REMOVALS

			638.2602	638.3000	
			REMOVING	REMOVING	
	SIGN		SIGNS	SMALL	
SIGN	CODE	SIGN	TYPE II	SIGN	
NO.	& SIZE	MESSAGE		SUPPORTS	
			[EA]	[EA]	REMARKS / NEW SIGN LOCATION
39R	W11-2		1		
40R	W16-7L				REMOVED WITH SIGN NO. 39R
	TOTALS		36	29	

SHEET 3 OF 3

FILE NAME : N:\SPO\Operations\Signing\Miscellaneous Quantities\2375-07-70\030502_removals_mq.pptx

HWY: STH 32

PROJECT NO: 2375-07-70

COUNTY: MILWAUKEE

PLOT DATE: 3-NOV-2016

SIGN REMOVAL QUANTITIES
PLOT BY: DOTDHA

PLOT NAME: 030502_removals_mq.pdf PLOT SCALE: 1:1

HEET 3 OF 3

Е

SHEET:

STH 32 & PUETZ RD

TRAFFIC DETECTOR LOOPS

				TRAFFIC I	DETECTOR LOOPS			
						652.0800	655.0700	655.0800
					SDD	CONDUIT	LOOP DETECTOR	LOOP DETECTOR
LOOP	HOME		SIZE	NO. OF	INSTALLATION	LOOP DETECTOR	LEAD IN CABLE	WIRE
NO.	RUN PB	LOCATION*	(FT)x(FT)	TURNS	REFERENCE	L.F.	L.F.	L.F.
21	PB13	109+54.3, 8.8'LT	6'x6'	5	9F15-4B LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	58	360	290
22	PB9	108+24.3, 11.4'LT	6'x6'	4	9F15-4B LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	60	230	240
					TOTAL	118	590	530

	СС	NDUIT	
			652.0225
			CONDUIT RIGID
			NONMETALLIC
			SCHEDULE 40
			2-INCH
FROM	TO		L.F.
PB1	PB9		216
PB9	PB13		130
		ΤΩΤΔΙ	346

PULL BOXES 653.0135 PULL BOXES STEEL PULL BOX NO. LOCATION* EACH PB9 108+24.3, 32.0'LT 1 PB13 109+54.3, 23.2'LT 1 TOTAL 2

* FINAL LOCATION TO BE DETERMINED BY	V THE ENGINEED IN THE FIE
I INAL LOCATION TO BE DETERMINED B	

REMOVE LOOP DETECTOR WIRE AND LEAD-IN CABLE

SPV.0105.01

REMOVE LOOP DETECTOR

WIRE & LEAD-IN CABLE

STH 32 & PUETZ RD 1

TOTAL

PROJECT NO: 2375-07-70 HWY: STH 32 COUNTY: MILWAUKEE MISCELLANEOUS QUANTITIES SHEET: **E**

LOCATION

REMOVE PULL BOXES

TOTAL

PULL BOX

NO.

PB9

653.0905

REMOVING

PULL BOXES

EACH

TRANSPORTATION PROJECT PLAT NO: 2375-07-20 - 4.01

THAT PART OF THE SOUTHWEST 1/4 OF THE SOUTHEAST 1/4 OF SECTION 14, TOWNSHIP 5 NORTH, RANGE 22 EAST IN THE CITY OF OAK CREEK, MILWAUKEE COUNTY, WISCONSIN.

RELOCATION ORDER STH 32 MILWAUKEE COUNTY

TO PROPERLY ESTABLISH, LAY OUT, WIDEN, ENLARGE, EXTEND, CONSTRUCT, RECONSTRUCT, IMPROVE, OR MAINTAIN A PORTION OF THE HIGHWAY DESIGNATED ABOVE, THE STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION DEEMS IT NECESSARY TO RELOCATE OR CHANGE SAID HIGHWAY AND ACQUIRE CERTAIN LANDS AND INTERESTS OR RIGHTS IN LANDS FOR THE ABOVE PROJECT.

TO EFFECT THIS CHANGE, PURSUANT TO AUTHORITY GRANTED UNDER SECTION 84.02 (3), 84.09, AND 84.30, WISCONSIN STATUTES, THE DEPARTMENT OF TRANSPORTATION HEREBY ORDERS THAT:

1. THAT PORTION OF SAID HIGHWAY AS SHOWN ON THIS PLAT IS LAID OUT AND ESTABLISHED TO THE LINES AND WIDTHS AS SO SHOWN FOR THE ABOVE PROJECT.

2. THE LANDS OR INTERESTS OR RIGHTS IN LANDS AS SHOWN ON THIS PLAT ARE REQUIRED BY THE DEPARTMENT FOR THE ABOVE PROJECT AND SHALL BE ACQUIRED IN THE NAME OF THE STATE OF WISCONSIN, PURSUANT TO THE PROVISIONS OF SECTION 84.09 (1) OR (2), WISCONSIN STATUTES.

DOC. # 10569607

RECORDED: 06/D1/2016 2:24 PM JOHN LA FAVE REGISTER OF DEEDS MILWAUKEE COUNTY, WI AMOUNT: 25.00 REE1 # 8899

RESERVED FOR REGISTER OF DEEDS PROJECT NUMBER 2375-07-20 4.01

4

NOTES:

POSITIONS SHOWN ON THIS PLAT ARE REFERENCED TO THE WISCONSIN COUNTY COORDINATE SYSTEM, MILWAUKEE COUNTY ZONE, NAD83 (2007) ADJUSTMENT IN US SURVEY FEET. THE COORDINATES SHOWN ARE GRID COORDINATES AND ARE TO BE USED AS GRID OR GROUND VALUES ON THIS PLAT.

RIGHT-OF-WAY MONUMENTS ARE TYPE 2 AND WILL BE PLACED PRIOR TO THE COMPLETION OF THE PROJECT.

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

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

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

FOR THE LATEST ACCESS/DRIVEWAY INFORMATION, CONTACT THE PLANNING UNIT OF THE WISCONSIN DEPARTMENT OF

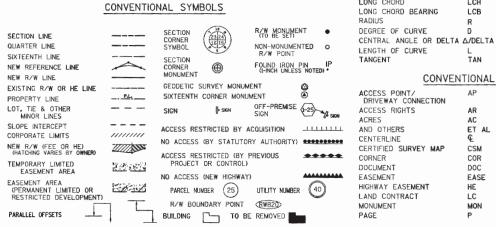
HWY	BASIS OF EXISTING R/W	WIDTH	YEAR
STH 32	CSM 1751	VARIES	1972
STH 32	WIS. STATUTE 82,31(2)	33'	

	SCHEDULE OF LANDS AND INTERESTS REQUIRED			AND ARE		ANGE PRIOR TO	ENCE PURPOSES THE TRANSFER	
				R/W	REQUIRED A	CRES	T.L.E.	P.L.E.
-	PARCEL		INTEREST				TEMP.	PERM.
	NUMBER	OWNER	REQUIRED	NEW	EXISTING	TOTAL	ACRES	ACRES
	1	MID AMERICA STEEL DRUM PROPERTIES	FEE,TLE	0.000	0.127	0.127	0.010	
	2	MID AMERICA STEEL DRUM PROPERTIES	FEE,TLE	0.000	0.288	0.288	0.017	

CURVE DATA

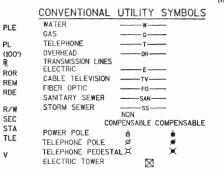
TEMPORARY LIMITED EASEMENT

VOLUME



ANGENT		IAN	
	CONVEN	TIONAL	ABBREVIATIONS
CCESS POINT/ DRIVEWAY CONN	ECTION	AP	PERMANENT LIMITED EASEMENT
CCESS RIGHTS		AR	PROPERTY LINE
CRES		AC	RECORDED AS
ND OTHERS		ET AL	REFERENCE LINE
NTERLINE		Œ	RELEASE OF RIGHTS
RTIFIED SURVE	Y MAP	CSM	REMAINING
RNER		COR	RESTRICTED DEVELOP
CUMENT		DOC	EASEMENT
SEMENT		EASE	RIGHT-OF-WAY
GHWAY EASEME	NT	HE	SECTION
ND CONTRACT		LC	STATION

LCB



H 32 105+59.72= ROAD 16+00

SEC LINE

L=56.51'

R=3139.45

CITY

LCH=185.41

LCB=N05°13'41"E

106

THIS IS A COPY ORIGINAL DOCUMENT IS FILED AT

THE MILWAUKEE COUNTY REGISTER OF DEEDS.

LINE PUETZ S88°38'35"E

0 A

R STH 32 PI STA = 112+85.12 = 244709.41 X = 618566.19DELTA = 5°33'42" D = 0°58'34"T = 285.12'1 = 569.79R = 5870.00'PC STA = 110+00.00 PT STA = 115+69.79 LC = 569.56'

LCB = N01°53'35"E

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

I, WALTER C. ZENDEK PROFESSIONAL LAND SURVEYOR, HEREBY CERTIFY THAT IN FULL COMPLIANCE WITH THE PROVISIONS OF SECTION 84.095 OF THE WISCONSIN STATUTES AND UNDER THE DIRECTION OF THE DEPARTMENT OF TRANSPORTATION, HAVE MAPPED THIS TRANSPORTATION PROJECT PLAT AND THAT SUCH PLAT CORRECTLY REPRESENTS ALL EXTERIOR BOUNDARIES OF THE SURVEYED LAND.

SIGNATURE: Land That Such Plat

DATE: 5/23/16

NALTER (ZENDEK SURV

PRINT NAME: WALTER C. ZENDEK REGISTRATION NUMBER: S-2965 THIS PLAT AND RELOCATION ORDER ARE APPROVED FOR THE WISCONSIN DEPARTMENT OF TRANSPORTATION

SOUTHEAST REGION SIGNATURE: Polart 2 Duffick DATE: 5/23/16

PRINT NAME: ROBERT L. DUFFECK

PLOT DATE : 5/26/2016 10:35 AM

PLOT NAME : PLOT BY : ZENDEK, WALTER C

PARCEL 3

R.630, 1.179

CITY

OAK

109+61.34 PRW100

L=506.71' R=10000.00' LCH=506.66' LCB=N04°16'43"E

0

0 F

CREEK

CSM 1751

PLOT SCALE : *********

TLE SLOPES

CREEK

THAT PART OF THE NORTHWEST 1/4 OF THE SOUTHEAST 1/4 AND THE SOUTHWEST 1/4 OF THE SOUTHEAST 1/4 OF SECTION 14, TOWNSHIP 5 NORTH, RANGE 22 EAST IN THE CITY OF OAK CREEK, MILWAUKEE COUNTY.

RELOCATION ORDER STH 32 MILWAUKEE COUNTY

TO PROPERLY ESTABLISH, LAY OUT, WIDEN, ENLARGE, EXTEND, CONSTRUCT, RECONSTRUCT, IMPROVE, OR MAINTAIN A PORTION OF THE HIGHWAY DESIGNATED ABOVE, THE STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION DEEMS IT NECESSARY TO RELOCATE OR CHANGE SAID HIGHWAY AND ACQUIRE CERTAIN LANDS AND INTERESTS OR RIGHTS IN LANDS FOR THE ABOVE PROJECT.

TO EFFECT THIS CHANGE, PURSUANT TO AUTHORITY GRANTED UNDER SECTION 84.02 (3), 84.09, AND 84.30, WISCONSIN STATUTES, THE DEPARTMENT OF TRANSPORTATION

SCHEDULE OF LANDS AND INTERESTS REQUIRED

EDISON ROAD VACATED

LONG CHORD

RADIUS

TANGENT

ACRES

R/W MONUMENT

NON-MONUMENTED O

FOUND IRON PIN II

OFF-PREMISE 1-25 SIGN

LONG CHORD BEARING

DEGREE OF CURVE

LENGTH OF CURVE

ACCESS POINT/

AND OTHERS

CENTERLINE

DOCUMENT

EASEMENT

MONUMENT

PAGE

DRIVEWAY CONNECTION
ACCESS RIGHTS

CERTIFIED SURVEY MAP

HIGHWAY EASEMENT

LAND CONTRACT

CURVE DATA

CENTRAL ANGLE OR DELTA A/DELTA

LCB

CSM

DOC

HE

MON

EASE

ABBREVIATIONS

PROPERTY LINE

RECORDED AS

REFERENCE LINE

RELEASE OF RIGHTS

TEMPORARY LIMITED EASEMENT

EASEMEN'

REMAINING

SECTION

STATION

VOLUME

RESTRICTED EASEMENT

RIGHT-OF-WAY

PERMANENT LIMITED

CONVENTIONAL

PER DOC. 09380620

HEREBY ORDERS THAT:

1 THAT PORTION OF SAID HIGHWAY AS SHOWN ON THIS PLAT IS LAID OUT AND ESTABLISHED TO THE LINES AND WIDTHS AS SO SHOWN FOR THE ABOVE PROJECT.

2 THE LANDS OR INTERESTS OR RIGHTS IN LANDS AS SHOWN ON THIS PLAT ARE REQUIRED BY THE DEPARTMENT FOR THE ABOVE PROJECT AND SHALL BE ACQUIRED

IN THE NAME OF THE STATE OF WISCONSIN, PURSUANT TO THE PROVISIONS OF SECTION 84.09 (1) OR (2), WISCONSIN STATUTES.

POSITIONS SHOWN ON THIS PLAT ARE REFERENCED TO THE WISCONSIN COUNTY COORDINATE SYSTEM, MILWAUKEE COUNTY ZONE, NAD83 (2007) ADJUSTMENT IN US SURVEY FEET. THE COORDINATES SHOWN ARE GRID COORDINATES AND ARE TO BE USED AS GRID OR GROUND VALUES ON THIS PLAT. RIGHT-OF-WAY MONUMENTS ARE TYPE 2 AND WILL BE PLACED PRIOR TO

THE COMPLETION OF THE PROJECT.

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

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

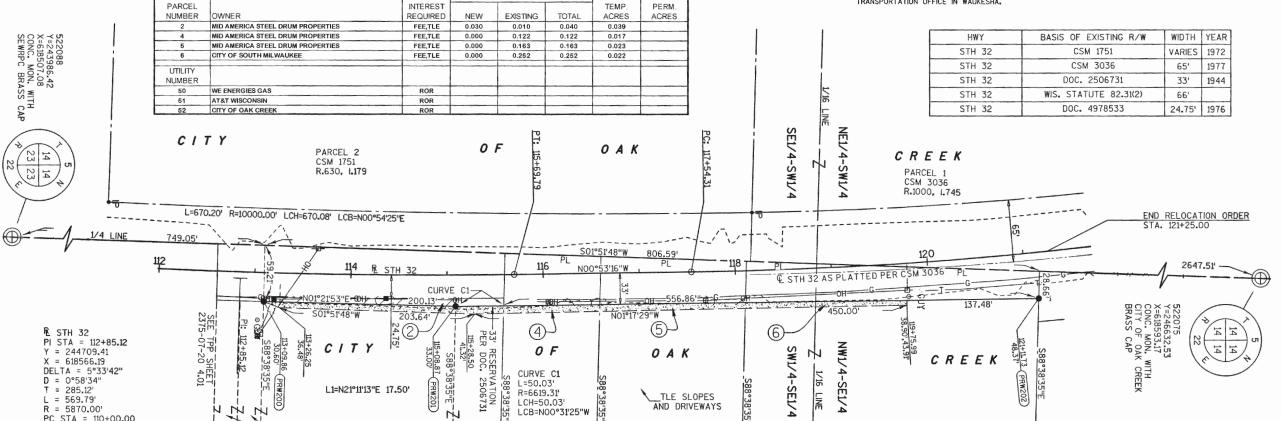
A TEMPORARY LIMITED EASEMENT (TLE) IS A RIGHT FOR CONSTRUCTION PURPOSES, AS DEFINED HEREIN, INCLUDING THE RIGHT TO OPERATE NECESSARY EQUIPMENT THEREON AND THE RIGHT OF INGRESS AND EGRESS, AS LONG AS REQUIRED FOR SUCH PUBLIC PURPOSE, INCLUDING THE RIGHT TO PRESERVE, PROTECT, REMOVE, OR PLANT THEREON ANY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

FOR THE LATEST ACCESS/DRIVEWAY INFORMATION, CONTACT THE PLANNING UNIT OF THE WISCONSIN DEPARTMENT OF

DOC. # 10569608

RECORDED: 06/01/2016 2:24 PM JOHN LA FAVE REGISTER OF DEEDS MILWAUKEE COUNTY, W AMOUNT: 25.00 REEL = 8894

RESERVED FOR REGISTER OF DEEDS PROJECT NUMBER 2375-07-20 4.02 AMENDMENT NO:___



THIS IS A COPY ORIGINAL DOCUMENT IS FILED AT

WATER

TELEPHONE

FIBER OPTIC

TRANSMISSION LINES

CABLE TELEVISION

SANITARY SEWER

TELEPHONE POLE

ELECTRIC TOWER

TELEPHONE PEDESTAL X

STORM SEWER

POWER POLE

OVERHEAD

ELECTRIC

GAS

PLE

(100')

ROR

REM

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R/W

SEC

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TLE

THE MILWAUKEE COUNTY REGISTER OF DEEDS.

OWNERS NAMES ARE SHOWN FOR REFERENCE PURPOSES ONLY

AND ARE SUBJECT TO CHANGE PRIOR TO THE TRANSFER OF

LAND INTEREST TO THE DEPARTMENT.

R/W REQUIRED ACRES

WE ENERGIES GAS NO RECORDED EASEMENT PCL. 2

NO RECORDED EASEMENT PCL. 2 DOC. 7488840 R.4245, I.240 PCL. 5

DOC. 4769281 R.727, I.418 PCL. 2 DOC. 4769282 R.727, I.421 PCL. 2 DOC. 4769283 R.727, I.424 DOC. 4766965 R.725, I.988 PCL. 5 DOC. 4779892 R.735, 1.998 PCL. 6

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

I, WALTER C. ZENDEK PROFESSIONAL LAND SURVEYOR, HEREBY CERTIFY THAT IN FULL COMPLIANCE WITH THE PROVISIONS OF SECTION 84.095 OF THE WISCONSIN STATUTES AND UNDER THE DIRECTION OF THE DEPARTMENT OF TRANSPORTATION, HAVE MAPPED THIS TRANSPORTATION PROJECT PLAT AND THAT SUCH PLAT CORRECTLY REPRESENTS ALL EXTERIOR BOUNDARIES OF THE SURVEYED LAND.

WALTER (ZENDEK

SIGNATURE: Walter C. 28 Adet DATE: 5/23/16 PRINT NAME: WALTER C. ZENDEK REGISTRATION NUMBER: S-2965

THIS PLAT AND RELOCATION ORDER ARE APPROVED FOR THE WISCONSIN DEPARTMENT OF TRANSPORTATION SOUTHEAST REGION SIGNATURE: Nolet Duffick DATE: 5/23/16

FILE NAME : N:\PDS\C3D\23750700\RW\040402_RP.DWG

PA.

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220

1.1

PT STA = 115+69.79

CONVENTIONAL SYMBOLS

CORNER

SYMBOL

SECTION CORNER

SIGN

(H)

GEODETIC SURVEY MONUMENT

SIXTEENTH CORNER MONUMENT

SIGN

ACCESS RESTRICTED (BY PREVIOUS

R/W BOUNDARY POINT (RWB20)

BUILDING TO BE REMOVED

PROJECT OR CONTROL

NO ACCESS (NEW HIGHWAY)

ACCESS RESTRICTED BY ACQUISITION

NO ACCESS (BY STATUTORY AUTHORITY)

PARCEL NUMBER (25) UTILITY NUMBER (40)

 $LCB = N01^{\circ}53'35"E$

LC = 569.56

SECTION LINE

QUARTER LINE

SIXTEENTH LINE

NEW R/W LINE

PROPERTY LINE

LOT, TIE & OTHER MINOR LINES

SLOPE INTERCEPT

CORPORATE LIMITS

TEMPORARY LIMITED

PARALLEL OFFSETS

FASEMENT AREA

NEW REFERENCE LINE

EXISTING R/W OR HE LINE

NEW R/W (FEE OR HE) (HATCHING VARIES BY OWNER)

EASEMENT AREA (PERMANENT LIMITED OR RESTRICTED DEVELOPMENT)

PLOT DATE : 5/26/2016 10:32 AM

CONVENTIONAL UTILITY SYMBOLS

_____G ____

----TV----

____SAN____

--- SS -----

COMPENSABLE COMPENSABLE

PLOT BY : ZENDEK, WALTER C

igan

SCALE, FEET

PLOT SCALE : ***********

R STH 32 PI STA = 122+95.48

Y = 245720.09

X = 618550.53DELTA = 14°41'03' $D = 1^{\circ}21'51''$

T = 541.17

 $L = 1076.41^{\circ}$

 $R = 4200.00^{\circ}$

LC = 1073.47

100

PC STA = 117+54.31 PT STA = 128+30.72

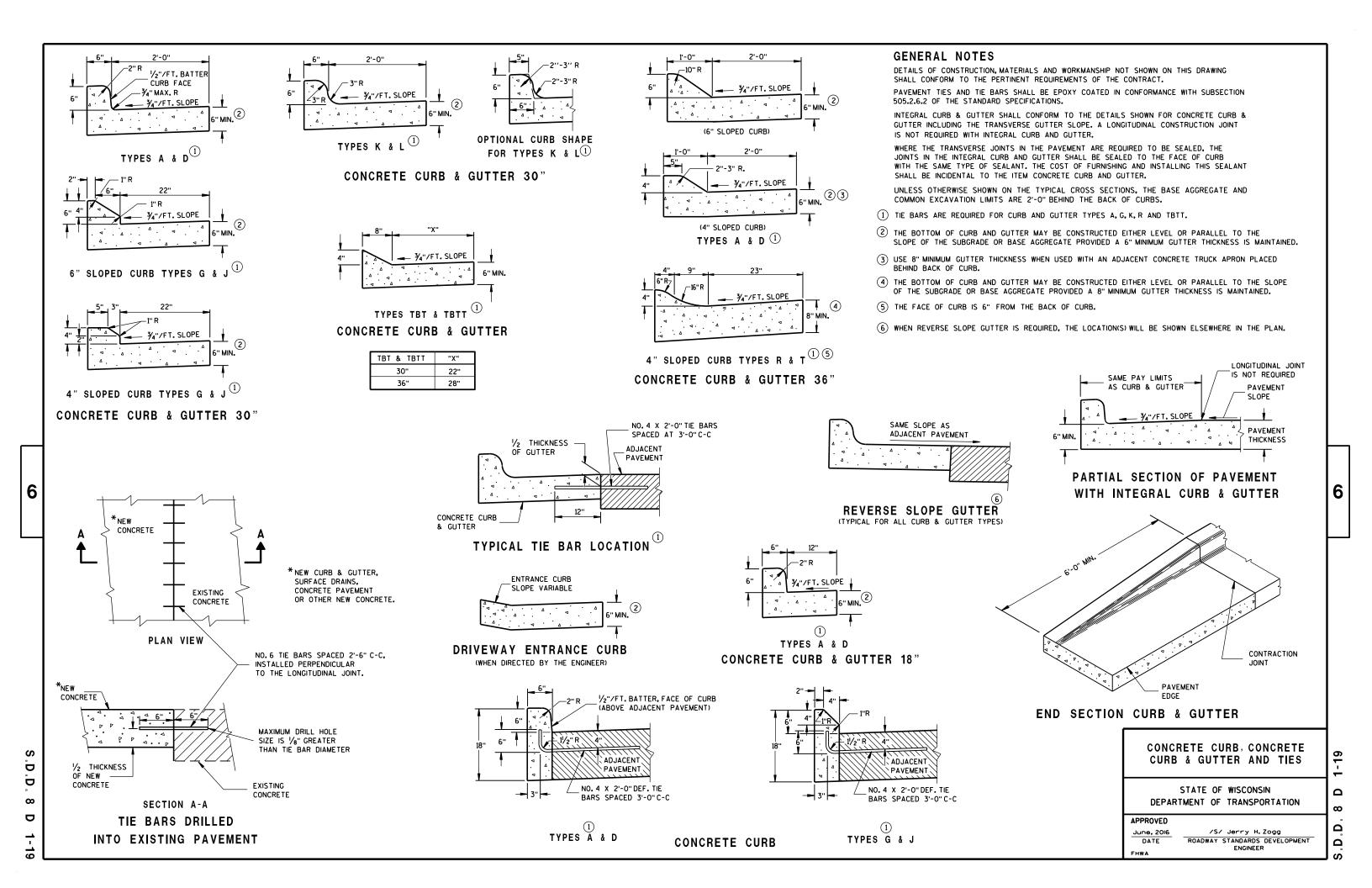
LCB = N08°13'47"W

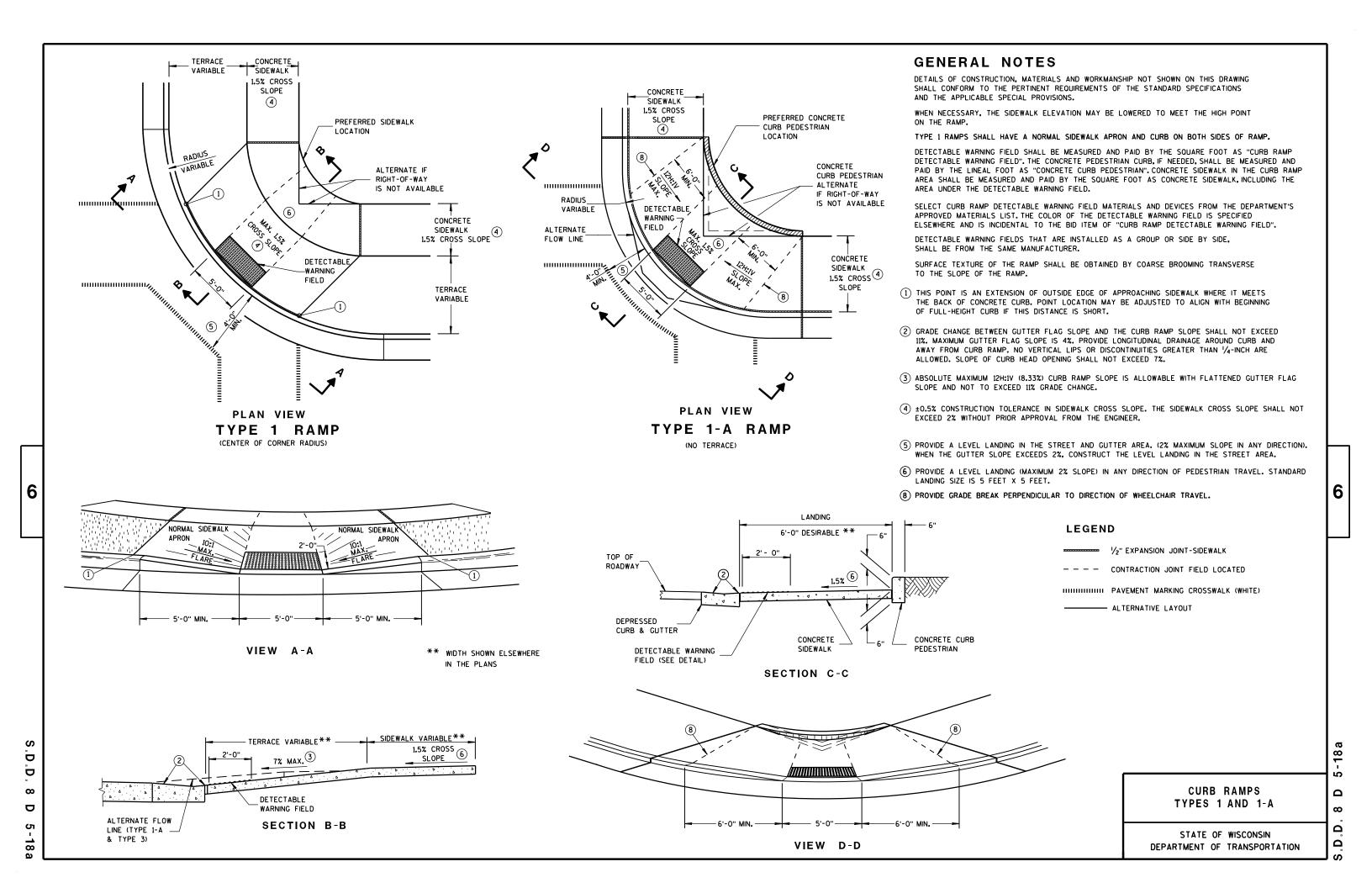
PRINT NAME: ROBERT L. DUFFECK

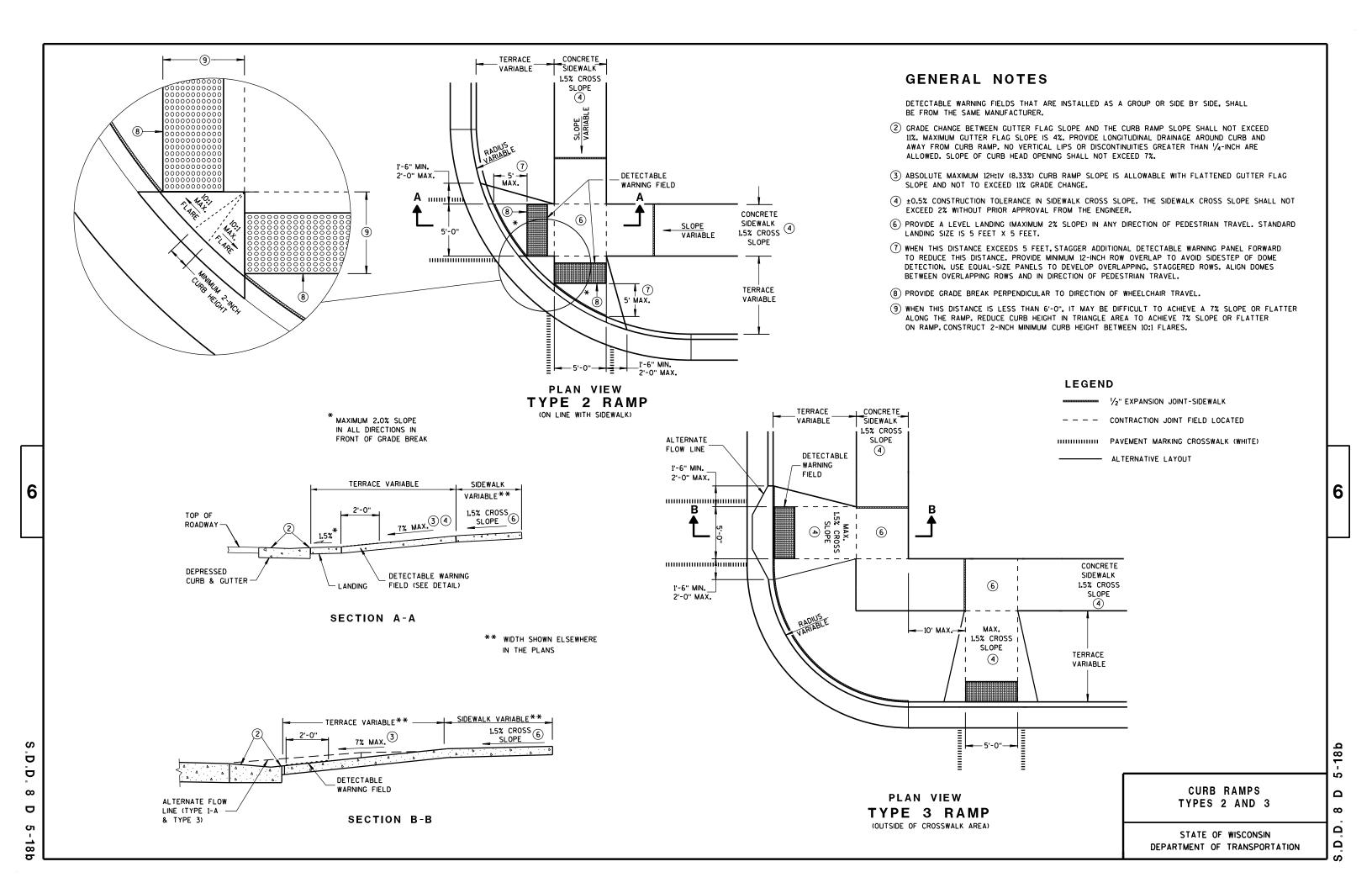
Standard Detail Drawing List

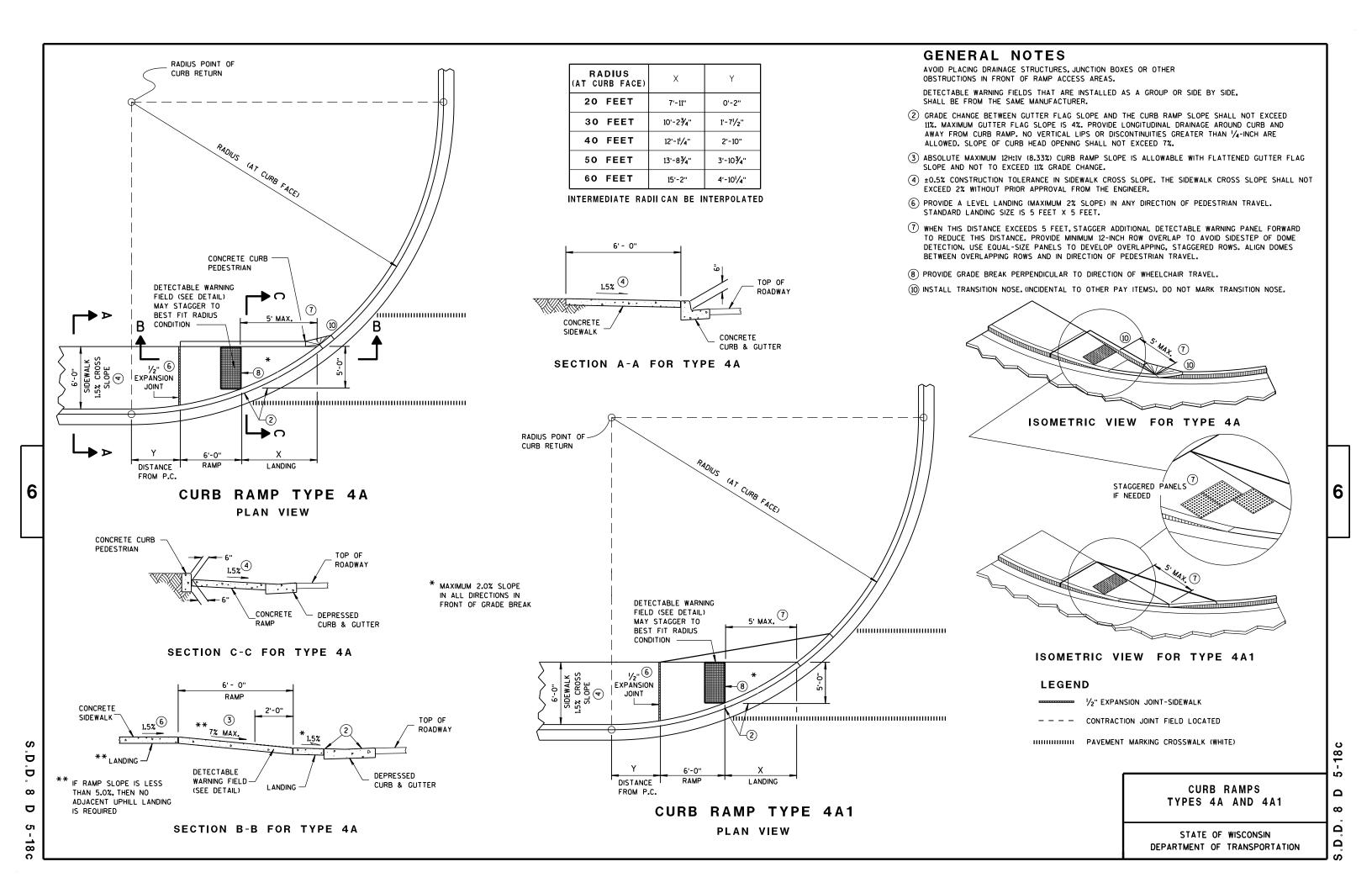
08D05- 08D05- 08D05- 08D05- 08E10- 08F01- 08F04- 09B02- 09B04- 15C05- 15C07- 15C08- 15C08- 15C12- 15C19- 15C33-	-18D -18E -02 -11 -07 -09 -11 -03 -13B -13C -17A	CURB RAMPS TYPES 4A AND 4A1 CURB RAMPS TYPE 4B AND 4B1 CURB RAMPS TYPE 5, 6, 7A, 7B & 8 INLET PROTECTION TYPE A, B, C AND D APRON ENDWALLS FOR CULVERT PIPE JOINT TIES FOR CONCRETE PIPE AND CONCRETE COLLAR DETAIL CONDUIT PULL BOX TRAFFIC CONTROL, ADVANCE WARNING SIGNS 40 M.P.H. OR LESS PAVEMENT MARKING WORDS PAVEMENT MARKING ARROWS
15D28-		TRAFFIC CONTROL, WORK ON SHOULDER OR PARKING LANE, UNDIVIDED ROADWAY

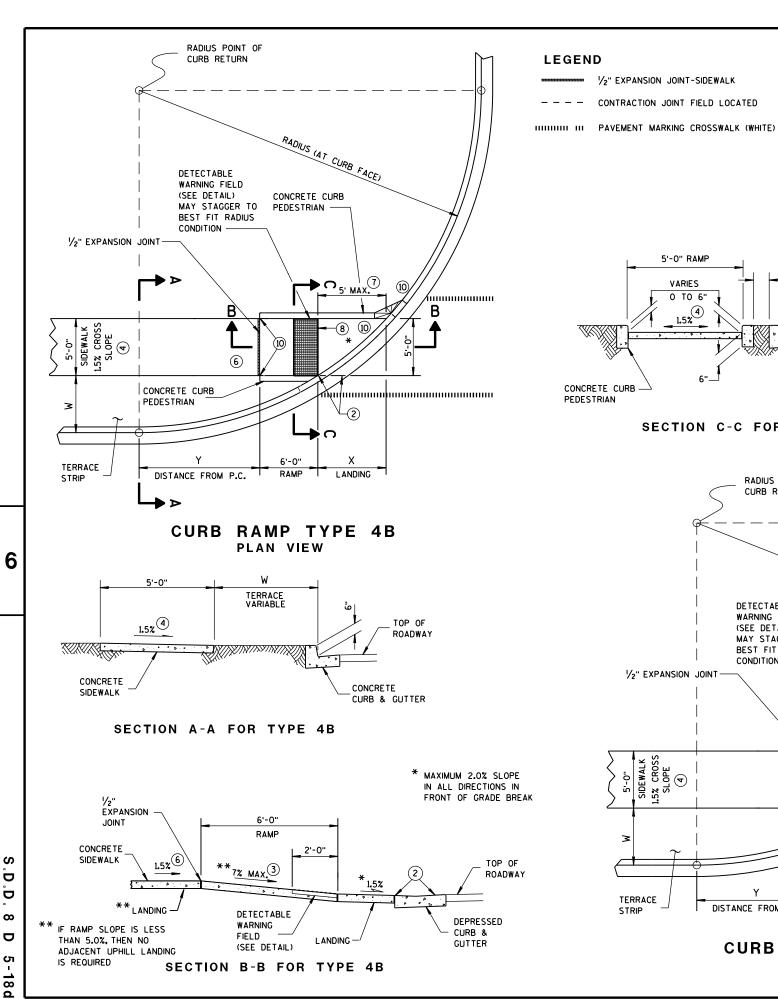
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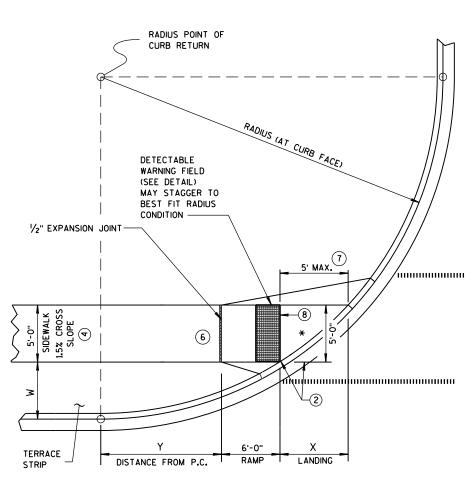
W = 5' - Ø" 7' - Ø" 3' - Ø" W = 4' - Ø" W = 6' - 0"RADIUS AT CURB FACE 20 FEET 3'-8¾" 7'-6¾" 3'-61/2" 4'-111/2" 6'-51/2" 8'-61/4" 5'-9¾" 5'-1¾" 4'-31/4" 3'-3" 30 FEET 5'-101/2" 6'-91/2" 7'-11'/4" 6'-0'/4" 12'-5¾" 11'-13/4' 40 FEET 12'-33/4" 14'-1'/4" 15'-81/2" 50 FEET 9'-61/2" 9'-51/2" 12'-31/4" 8'-61/2"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

GENERAL NOTES

INTERMEDIATE RADII CAN BE INTERPOLATED

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

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



TERRACE STRIP

VARIES O TO W

CONCRETE

CURB & GUTTER

TOP OF

ROADWAY

5'-0" RAMP

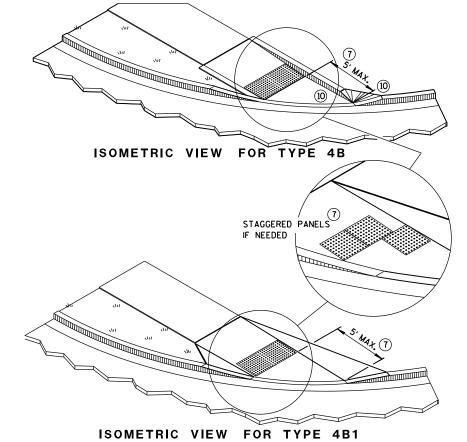
VARIES

0 TO 6"

1.5%

SECTION C-C FOR TYPE 4B

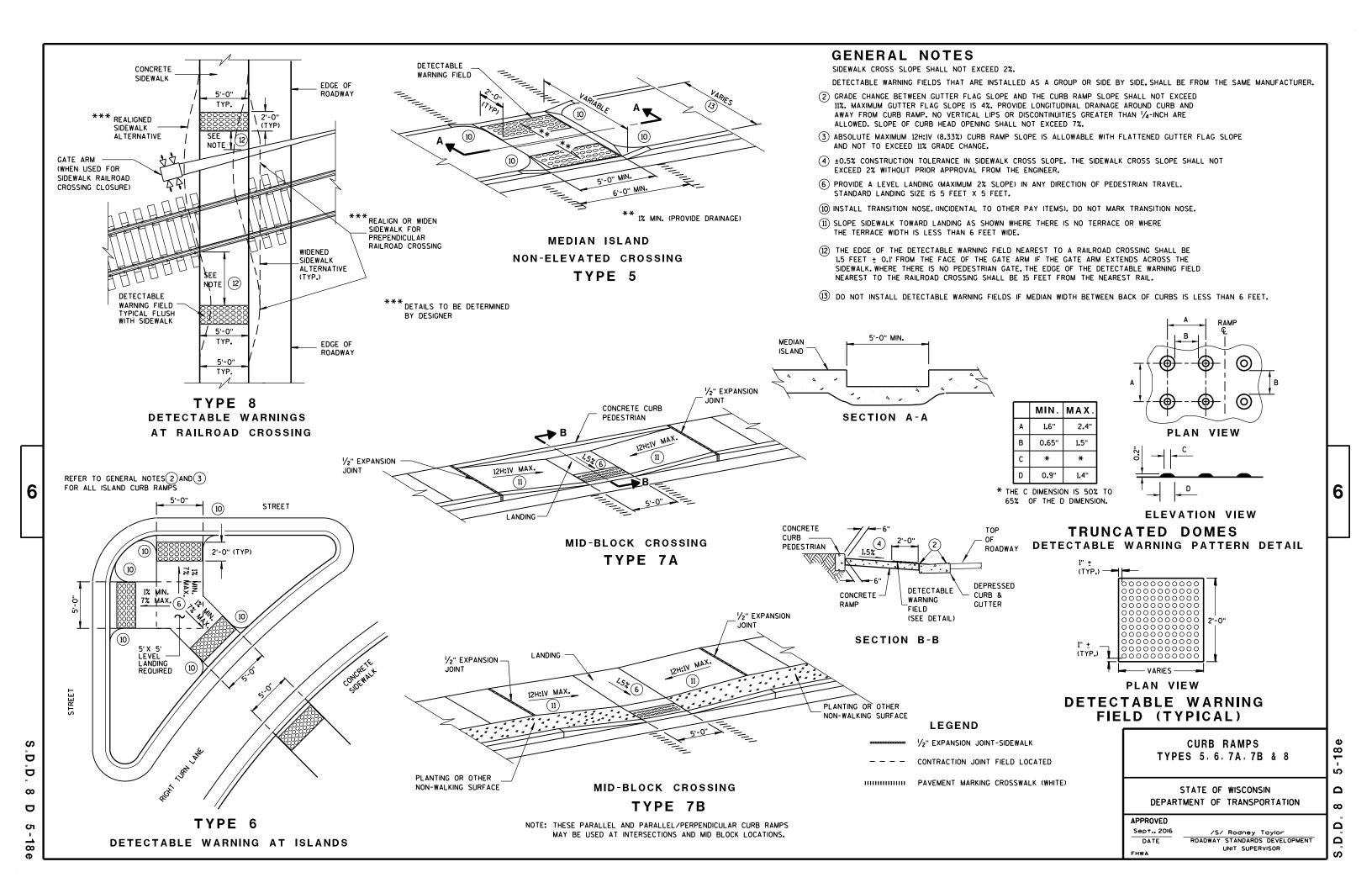
CURB RAMP TYPE 4B1 PLAN VIEW



CURB RAMPS TYPE 4B AND 4B1

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

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INLET PROTECTION, TYPE A

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

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

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

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



INLET PROTECTION, TYPE C (WITH CURB BOX)

INSTALLATION NOTES

TYPE B & C

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

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

TYPE D

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

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

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

INLET PROTECTION TYPE A, B, C, AND D

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

APPROVED

10/16/02

/S/ Beth Cannestra CHIEF ROADWAY DEVELOPMENT ENGINEER 6

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

	RE	INFORC	ED C	ONCRET	E APRO	N E	NDWAL	.LS
PIPE			DIM	ENSIONS	(Inches)			APPROX.
DIA.	T	A	В	С	D	Ε	G	SLOPE
12	2	4	24 48 72 1/8 24 3					3 to 1
15	21/4	6	27	46	73	30	21/4	3 to 1
18	21/2	9	27	46	73	36	21/2	3 to 1
21	23/4	9	36 37½ 73½ 42				23/4	3 to 1
24	3	91/2	1.0/2 00 1.0/2 1.0				3	3 to 1
27	31/4	101/2	491/2	24	731/2	54	31/4	3 to 1
30	$3\frac{1}{2}$	12	54	193/4	731/2	60	31/2	3 to 1
36	4	15	63	34¾	97¾	72	4	3 to 1
42	$4\frac{1}{2}$	21	63	35	98	78	41/2	3 to 1
48	5	24	72	26	98	84	5	3 to 1
54	51/2		65	**************************************	8 ¹ / ₄ - 100	90	51/2	2% to 1
60	6	* * * 30-35	60	39	99	96	5	2 to 1
66	61/2	* * * 24-30	* * * 72-78	* * * 21-27	99	102	51/2	2 to 1
72	7	* ** 24-36	78	21	99	108	6	2 to 1
78	71/2	* ** 24-36	78	21	99	114	61/2	2 to 1
84	8	36	901/2	21	1111/2	120	61/2	1½+o 1
90	81/2	41	871/2	24	1111/2	132	61/2	11/2+0 1

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







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

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

DIMPLED BAND MAY BE USED WITH HELICALLY

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

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

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

* EXCEPT CENTER PANEL SEE GENERAL NOTES





SHOULDER

SLOPE



SIDE ELEVATION METAL ENDWALLS



**MAXIMUM





CONCRETE ENDWALLS

CONNECTION DETAILS



SECTION A-A

GENERAL NOTES

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

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

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

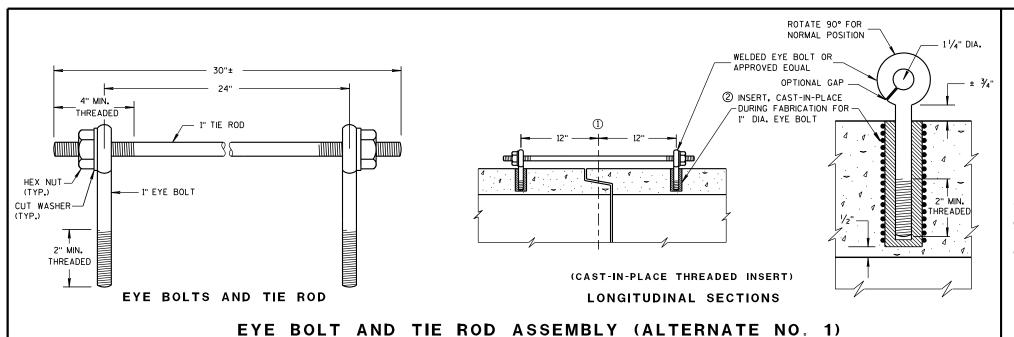
LAP SEAMS SHALL BE TIGHTLY JOINED BY GALVANIZED RIVETS OR BOLTS FOR STEEL UNITS AND ALUMINUM RIVETS AND BOLTS FOR ALUMINUM UNITS. FOR THE 60" THROUGH 96" DIAMETER APRON ENDWALL SIZES. THE REINFORCED EDGES AND CENTER PANEL SEAMS SHALL BE FURTHER REINFORCED WITH GALVANIZED STEEL OR ALUMINUM STIFFENER ANGLES.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

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

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



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



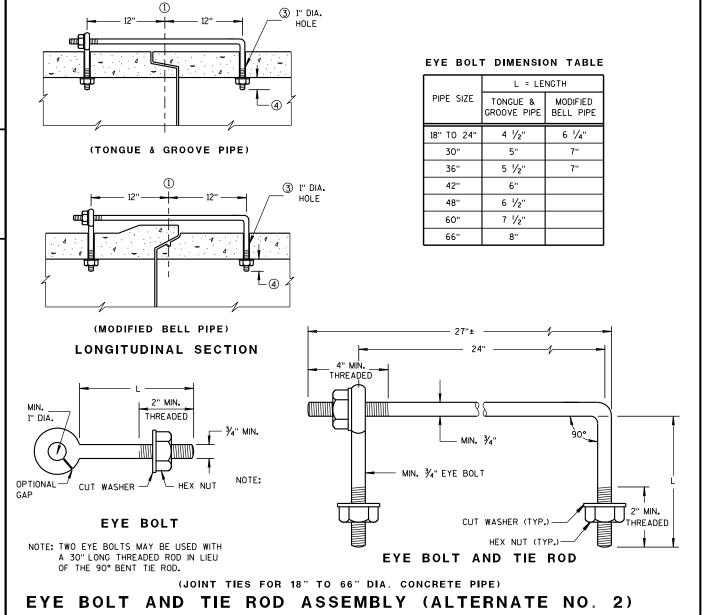
DETAILS OF CONSTRUCTION, MATERIALS, AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND APPLICABLE SPECIAL PROVISIONS.

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

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

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

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

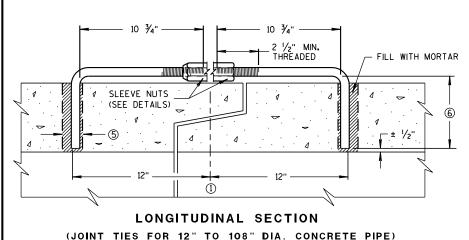


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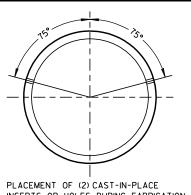
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ADJUSTABLE TIE ROD TABLE 5/8 5 12-60 3/4 5 1/2 3/4 90-108 DIMENSIONS SHOWN ARE IN INCHES **TAPERED** PLAIN RIGHT AND LEFT THREADS **SLEEVE NUTS**

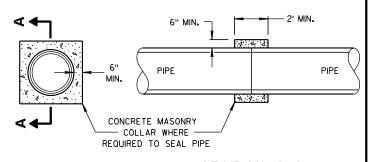


ADJUSTABLE TIE ROD (ALTERNATE NO. 3)



INSERTS OR HOLES DURING FABRICATION FOR PIPE SECTIONS REQUIRING TIE RODS

TRANSVERSE SECTION



SECTION A-A

CONCRETE COLLAR DETAIL

JOINT TIES FOR CONCRETE PIPE AND CONCRETE COLLAR DETAIL

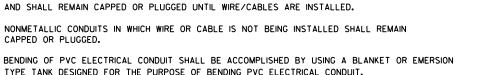
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

6/5/2012

/S/ Jerry H. Zogg DATE ROADWAY STANDARDS DEVELOPMENT ENGINEER

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TYPE TANK DESIGNED FOR THE PURPOSE OF BENDING PVC ELECTRICAL CONDUIT.

ALL CUT ENDS SHALL BE TRIMMED INSIDE AND OUTSIDE TO REMOVE ALL ROUGH EDGES ON NONMETALLIC CONDUIT. (SEE NEC 347.5)

WHEN REQUIRED TO CONNECT NONMETALLIC CONDUIT TO METALLIC CONDUIT, ONLY U.L. LISTED ADAPTER FITTINGS SHALL BE USED.

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING

METALLIC (STANDARD SPECIFICATION 652.2.2) OR NONMETALLIC (STANDARD SPECIFICATION

DEPTH OF CONDUIT INSTALLED BELOW THE TRAVELED WAY SHALL BE 24 INCHES MINIMUM

ANY EXCEPTION TO THE MAXIMUM DEPTH SHALL BE ONLY WITH THE WRITTEN APPROVAL

ALL METALLIC CONDUIT IN WHICH WIRE OR CABLE IS TO BE INSTALLED SHALL BE BUSHED WITH APPROVED THREADED BUSHINGS BEFORE INSTALLATION OF THE WIRE OR CABLE.

ALL METALLIC CONDUITS IN WHICH WIRE OR CABLE IS NOT TO BE INSTALLED SHALL BE CAPPED

ALL NONMETALLIC CONDUIT SHALL BE CAPPED OR PLUGGED IMMEDIATELY AFTER INSTALLATION

THE TRENCH SHALL NOT BE BACKFILLED PRIOR TO INSPECTION OF THE CONDUIT.

ALL METALLIC CONDUIT RACEWAY ENDS SHALL BE REAMED AND THREADED.

WITH THREADED PROTECTIVE CAPS, AS APPROVED BY THE ENGINEER.

DEPTH OF CONDUIT INSTALLED THAT IS NOT BELOW THE TRAVELED WAY SHALL BE 18 INCHES

SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE CONTRACT.

652.2.3) CONDUIT SHALL BE FURNISHED AND PLACED AS SHOWN.

PRIOR TO CONDUIT ACCEPTANCE, CONDUIT CAPS OR PLUGS SHALL BE REMOVED, AND THE CAPS, PLUGS AND CONDUIT ENDS SHALL BE THOROUGHLY CLEANED AND THEN THE CAPS OR PLUGS REIN-STALLED TO ENSURE THAT THE CAPS OR PLUGS CAN BE EASILY REMOVED IN THE FUTURE.

ALL CONDUIT BEING FURNISHED AND INSTALLED SHALL HAVE THE U.L. LABEL FIRMLY

GENERAL NOTES

AND 36 INCHES MAXIMUM.

OF THE ENGINEER.

CAPPED OR PLUGGED.

MINIMUM AND 36 INCHES MAXIMUM.

CONDUIT RUNS SHALL BE THE SAME SIZE OF CONDUIT FROM ONE END TO THE OTHER (FROM PULL BOX TO PULL BOX-OR-JUNCTION BOX TO JUNCTION BOX-OR-BASE TO BASE, ETC.).

TRACER WIRE SHALL BE INSTALLED AS STATED IN THE STANDARD SPECIFICATION, ITEM 652.3.1.1.

ALL CONDUIT RUNS SHALL BE STRAIGHT (WITHOUT BENDS) FROM PULL BOX TO PULL BOX, PULL BOX TO BASE AND BASE TO BASE AS SHOWN ON THE PLANS.

BOTTOM OF ¼" HOLE PVC CONDUIT-CONDUIT TRENCH FOR DRAINAGE NO. 2 COARSE AGGREGATE FILL —1'-0" DIA. OR SQUARE —>

NOTE: INSTALL AT LOCATIONS WHERE METALLIC CONDUITS CANNOT BE PITCHED TO DRAIN INTO A PULL BOX.

BOTTOM OF

CONDUIT TRENCH

NOTE: INSTALL AT LOCATIONS WHERE PVC CONDUITS CANNOT BE PITCHED TO DRAIN INTO A PULL BOX.

DRAIN SUMP FOR METALLIC CONDUIT

1'-0" DIA. OR SQUARE ──➤

METALLIC CONDUIT-

1" DIA. X 6"

NIPPLE

NO. 2 COARSE

AGGREGATE FILL

ARROW MARK SHALL BE INSCRIBED IN PAVEMENT SURFACE 1/4" TO 3/8"

DEEP AT EACH LOCATION WHERE CONDUITS ARE PLACED UNDER

PLAN VIEW

ARROW MARK

CONDUIT

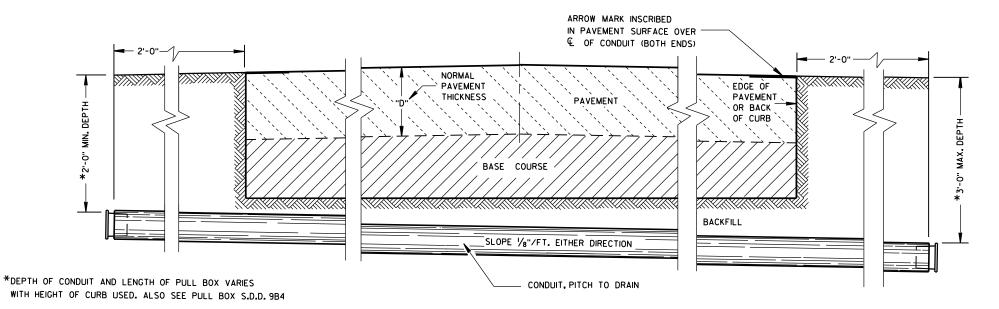
THE PAVEMENT

EDGE OF

PAVEMENT OR BACK

OF CURB

DRAIN SUMP FOR PVC CONDUIT



SIDE ELEVATION DETAIL FOR CONDUIT UNDER PAVED HIGHWAYS

CONDUIT

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

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APPROVED /S/ Ahmet Demirbilek June. 2015 DATE STATE ELECTRICAL ENGINEER

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FHWA

DIMENSION IN INCHES		CORRUGATED STEEL PIPE													
PIPE DIAMETER (INSIDE)	Α	12	12	12	18	18	18	24	24	24					
PIPE LENGTH **	В	24	30	36	24	30	36	36	42	48					
WALL THICKNESS	С	0.064	0.064	0.064	0.064	0.064	0.064	0.064	0.064	0.064					
COVER	D	10 1/4	10 1/4	10 1/4	16 1/4	16 1/4	16 1/4	22 1/4	22 1/4	22 1/4					
FRAME	Ε	14 1/2	14 1/2	14 1/2	20 ½	20 ½	20 ½	26 ½	26 ½	26 ½					
FRAME	F	8 1/2	8 1/2	8 1/2	14 1/2	14 ½	14 1/2	20 ½	20 ½	20 ½					
FRAME	G	11 1/2	11 1/2	11 1/2	17 1/2	17 1/2	17 1/2	23 ½	23 ½	23 ½					
					WEIGH	T IN P	OUNDS	*							
FRAME AND COVER		60	60	60	110	110	110	155	155	155					

- * THE ACTUAL WEIGHT OF THE MANHOLE FRAME AND COVER MAY VARY WITHIN 5 PERCENT PLUS OR MINUS OF THE WEIGHTS SHOWN.
- NORMALLY USED LENGTHS. THE PROJECT ENGINEER SHALL DETERMINE IF PIPE LENGTHS, OTHER THAN THOSE SPECIFIED, SHALL BE USED, TO A MAXIMUM OF 48" (CONTINUOUS LENGTH, NON-SPLICED). THE ADDITIONAL LENGTH SHALL BE INCIDENTAL TO THE PULL BOX BID PRICE.

6" MAX. **EXTENSION** TOP OF ORIGINAL CORRUGATED PIPE (3) BOLTS, NUTS & LOCKWASHERS REQUIRED

ELECTRIC

FINAL GRADE

ALL METALLIC CONDUIT

AND THREADED

CUT OPENINGS

THE FIELD

2" PVC PIPE CAP ON BOTH ENDS

WITH 7, 8 1/4" HOLES DRILLED

IN EACH END.

PULL BOX

AS REQUIRED IN

ENDS SHALL BE REAMED

ALL CONDUIT PITCHED

4 TO 8 BRICKS

EQUALLY SPACED

TO DRAIN TO PULL BOXES

2" DRAIN DUCT TO

DITCH OR SEWER

WHEN SPECIFIED

CORRUGATED PIPE EXTENDER

HEAVY DUTY FRAME -

6" MIN.

(TYP.)

AND COVER

WHEN A PULL BOX IS INSTALLED IN CRUSHED

AGGREGATE SHOULDERS, PLACE IT 2-3

2-3 INCHES OF CRUSHED AGGREGATE

NO. 2 COARSE

(SEE SECTION 501

OF THE STANDARD

WIRE AND/OR CABLE.

INSTALL END BELLS (U.L. LISTED FOR

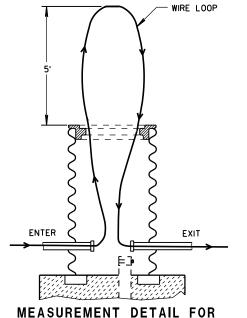
CONDUIT BEFORE INSTALLATION OF

ELECTRICAL USE) ON ALL NONMETALLIC

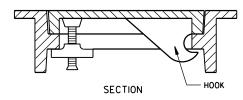
SPECIFICATIONS)

AGGREGATE

INCHES BELOW GRADE AND COVER IT WITH

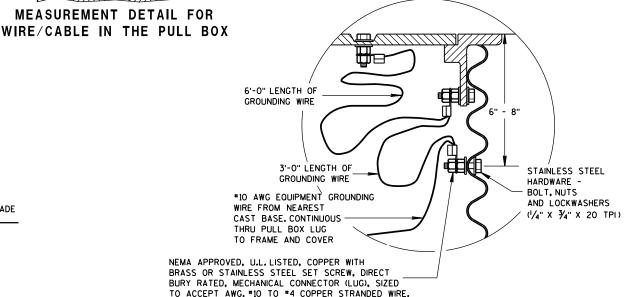


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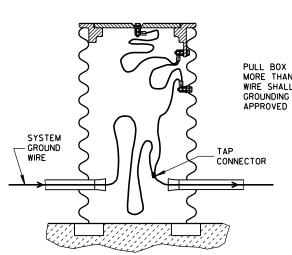


ALTERNATE COVER (LOCKING)

TIGHTENING BAR TYPE



EQUIPMENT GROUNDING LUG AND LOCATION IN STEEL PULL BOXES



EQUIPMENT GROUNDING LUG AND LOCATION IN STEEL PULL BOXES

PULL BOX TO NEAREST BASE DISTANCE MORE THAN 20 FEET. PULL BOX GROUND WIRE SHALL CONNECT AT SYSTEM GROUNDING WIRE. USE DEPARTMENT APPROVED TAP CONNECTOR.

PULL BOX

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

APPROVED

Sept. 2014 /S/ Ahmet Demirbilek DATE STATE ELECTRICAL ENGINEER FHWA

GENERAL NOTES

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

ALL FRAMES AND COVERS SHALL BE HEAVY DUTY TYPE, SUITABLE FOR VEHICULAR

PULL BOXES LOCATED IN THE ROADWAYS SHALL HAVE LOCKING COVERS.

ENTRANCE HOLES INTO PULL BOXES SHALL BE CUT WITH A CIRCULAR HOLE SAW OR HYDRAULIC CONDUIT PUNCH. HOLE SIZE SHALL BE THE OUTSIDE DIAMETER OF THE CONDUIT THAT IS TO FIT IN THE OPENING PLUS NO MORE THAN 1/4".

THE CONTRACTOR SHALL NOT INSTALL WIRE IN ANY PULL BOX UNTIL ITS INSTALLATION HAS BEEN INSPECTED AND ACCEPTED BY THE ENGINEER.

GROUNDING LUGS (MECHANICAL CONNECTORS) SHALL BE U.L. LISTED AND APPROVED

ALL METALLIC CONDUIT IN WHICH WIRE AND/OR CABLE IS TO BE INSTALLED. SHALL BE BUSHED BEFORE INSTALLATION OF THE WIRE AND/OR CABLE.

WHEN PULL BOXES ARE INSTALLED FOR FUTURE USE, DO NOT INSTALL THE EQUIPMENT GROUNDING LUG. THE EQUIPMENT GROUNDING LUG, THE EQUIPMENT GROUNDING ELECTRODE AND THE EQUIPMENT GROUNDING CONDUCTOR SHALL BE REQUIRED AND INSTALLED UNDER A FUTURE WIRING CONTRACT.

TRAFFIC LOADS.

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

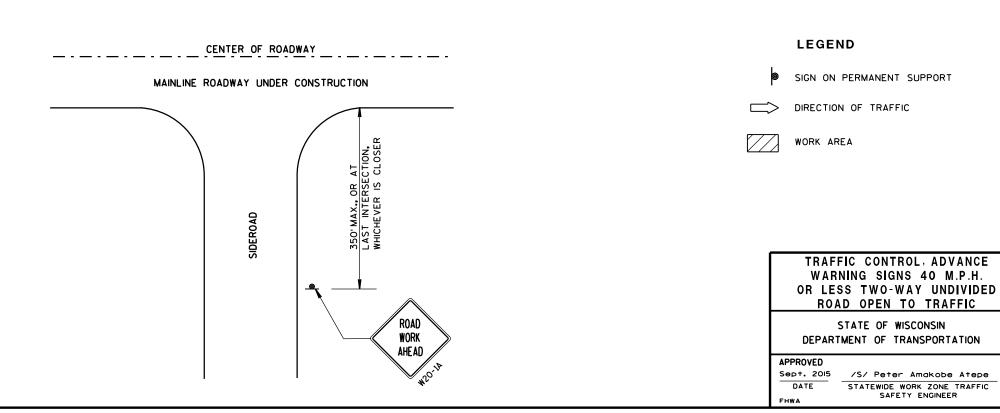
THE SPACING BETWEEN TRAFFIC CONTROL SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND SHOULD PROVIDE A DESIRABLE MINIMUM OF 200 FEET CLEARANCE TO EXISTING SIGNS THAT WILL REMAIN IN PLACE.

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

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.

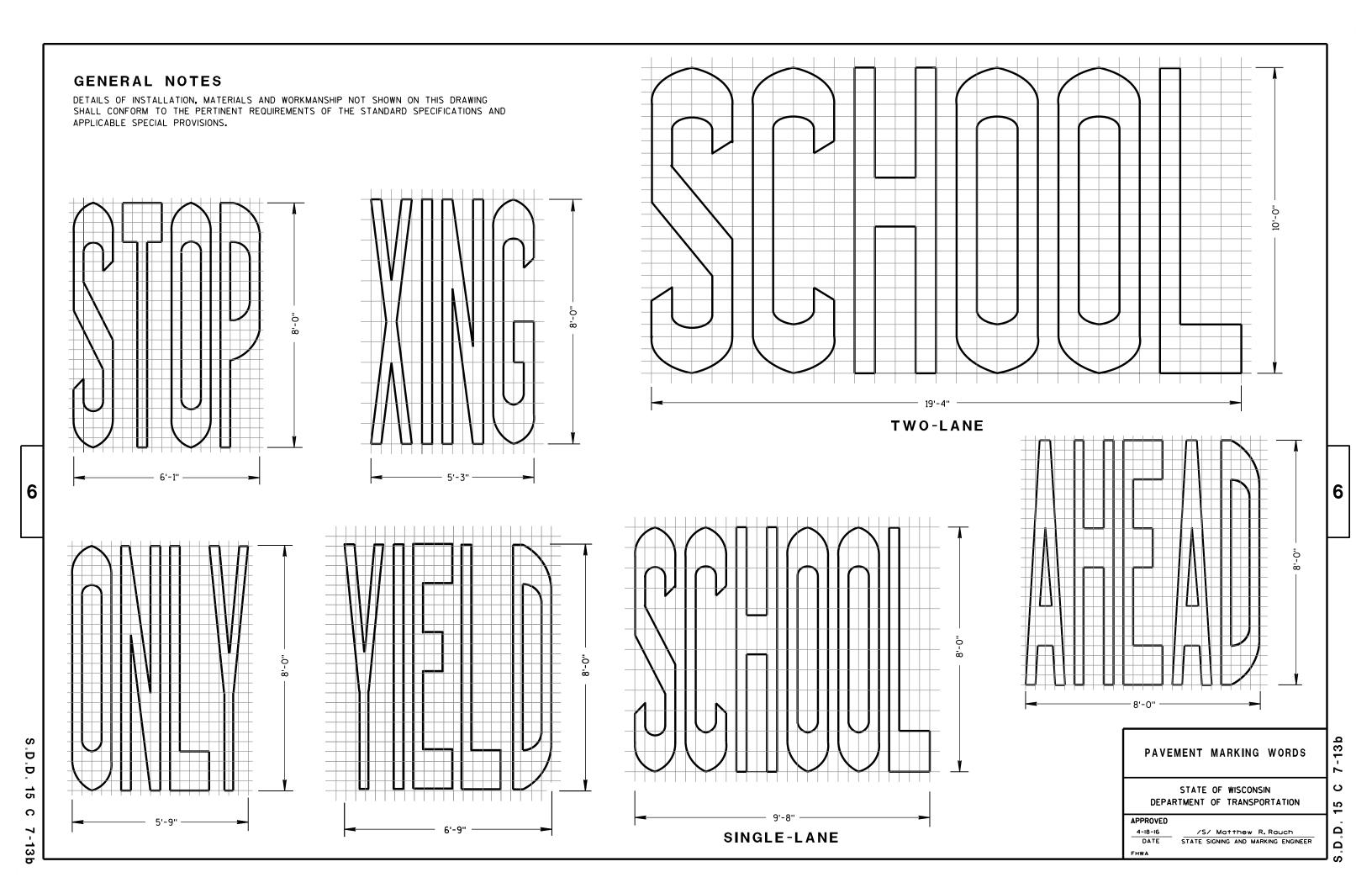
★ THE THIRD W20-1 SIGN IS REQUIRED ONLY IF THERE IS AN INTERSECTION BETWEEN THE "ROAD WORK 500 FT" SIGN AND THE WORK ZONE. ADJUST THE PLACEMENT OF THIS SIGN BASED ON INTERSECTION LOCATION AND OTHER FIELD CONDITIONS.

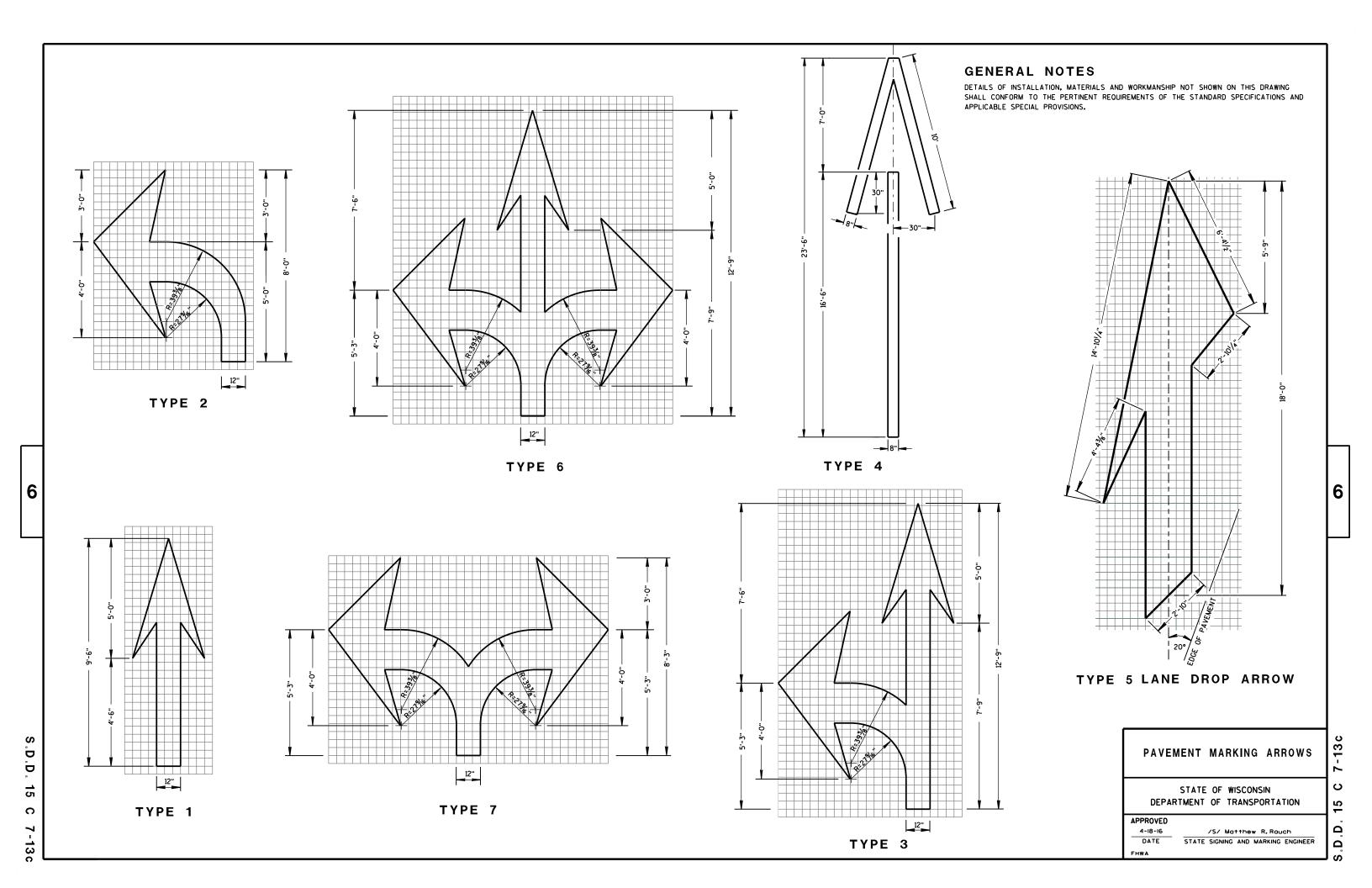


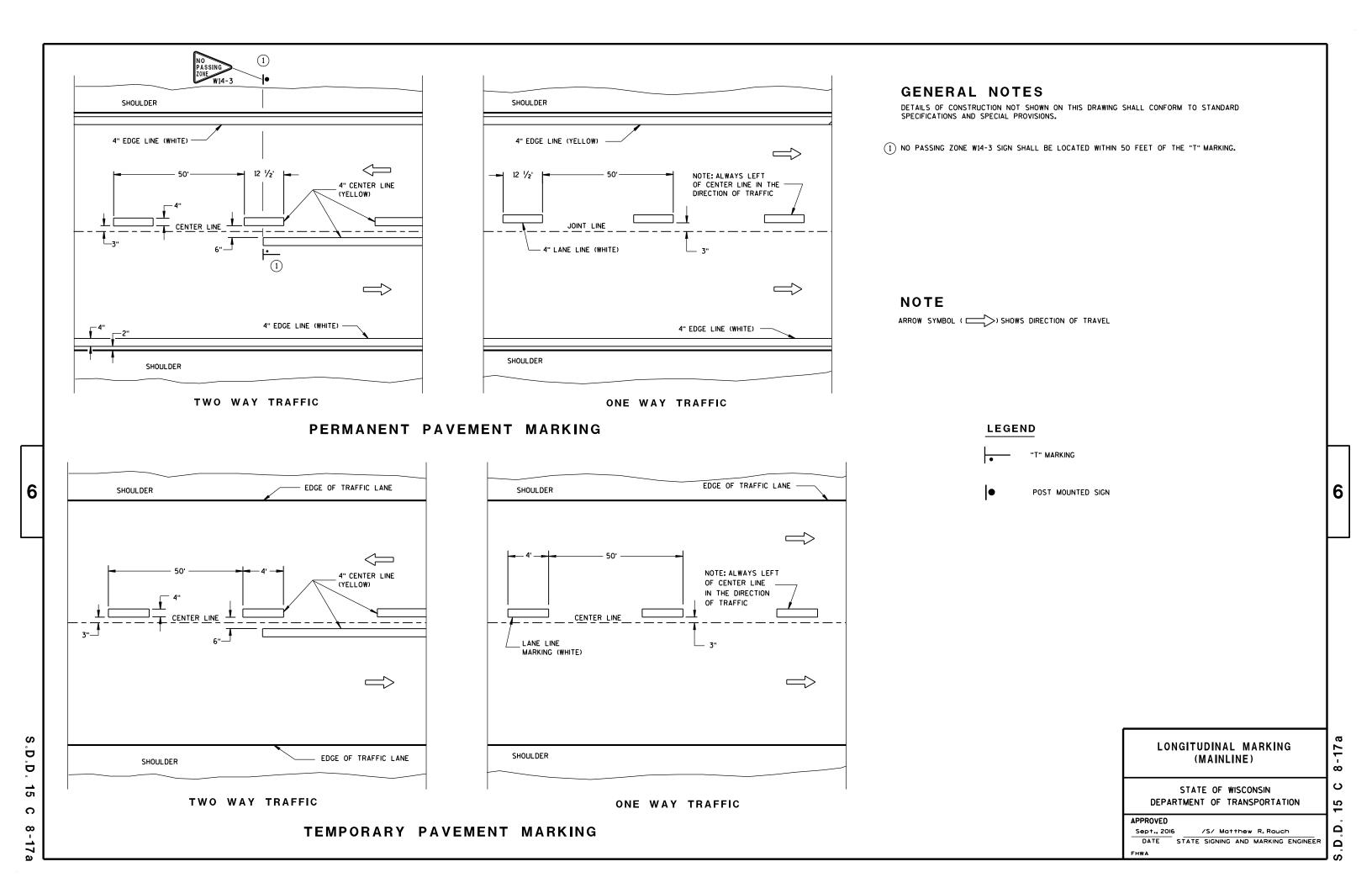
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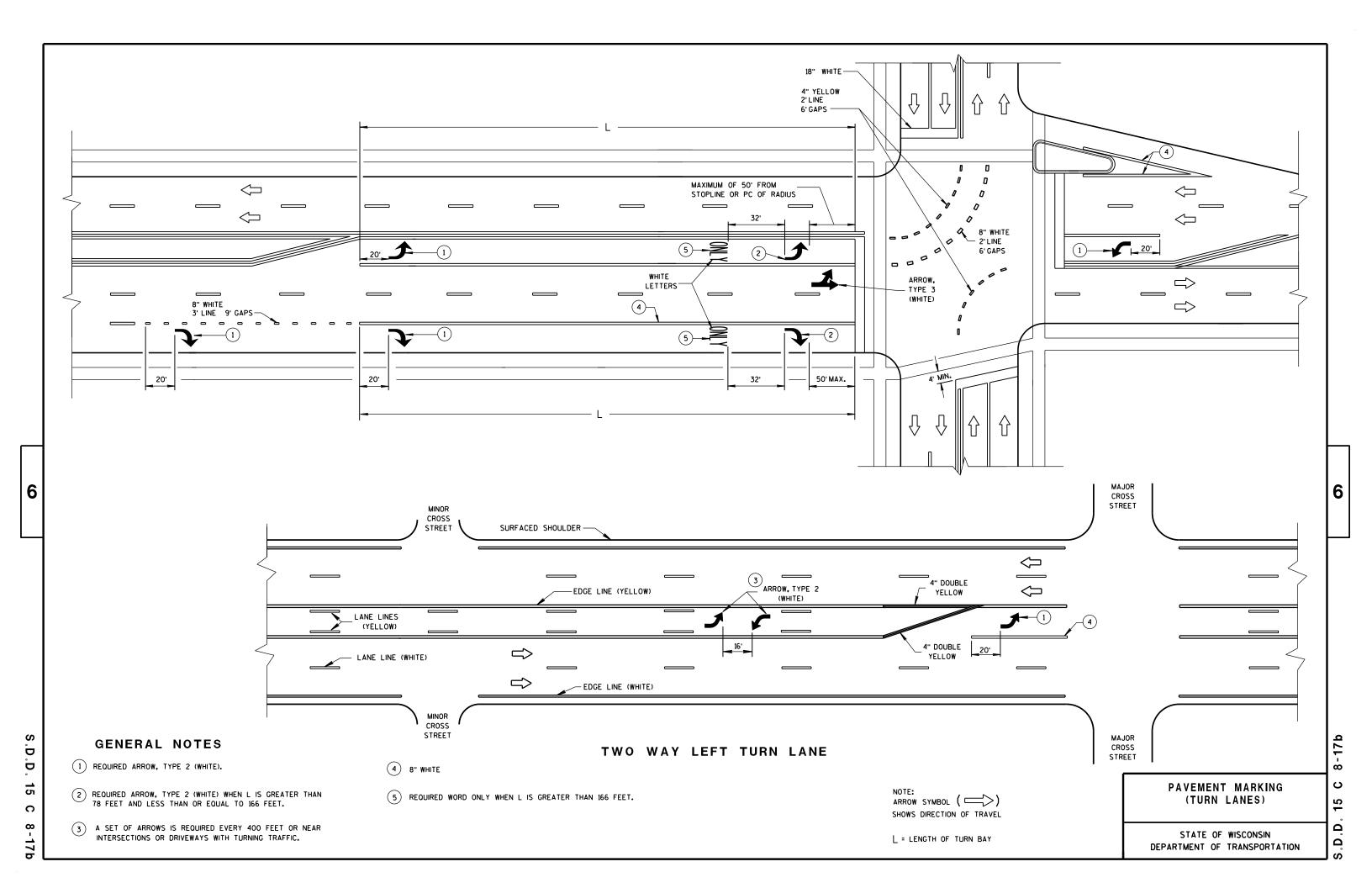
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TRAFFIC CONTROL FOR LANE CLOSURE WITH FLAGGING OPERATION

GENERAL NOTES

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

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

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

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

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

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

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

- * UTILIZE TEMPORARY RUMBLE STRIPS WHEN FLAGGING OPERATION IS ANTICIPATED TO BE STATIONARY IN EXCESS OF TWO HOURS.
- 1) FOR A MOVING WORK OPERATION, SIGNING AND TEMPORARY RUMBLE STRIPS (IF USED) SHALL BE REESTABLISHED (AS SIMULTANEOUSLY AS PRACTICAL) AT APPROXIMATELY 3,500 FOOT INTERVALS IN THE MOVING WORK OPERATION OR AS APPROVED BY THE ENGINEER.
- SIGN NOT REQUIRED IF FLAGGING OPERATION OCCURS WITHIN A SIGNED ROAD WORK ZONE AREA.

TRAFFIC CONTROL FOR LANE CLOSURE WITH FLAGGING OPERATION

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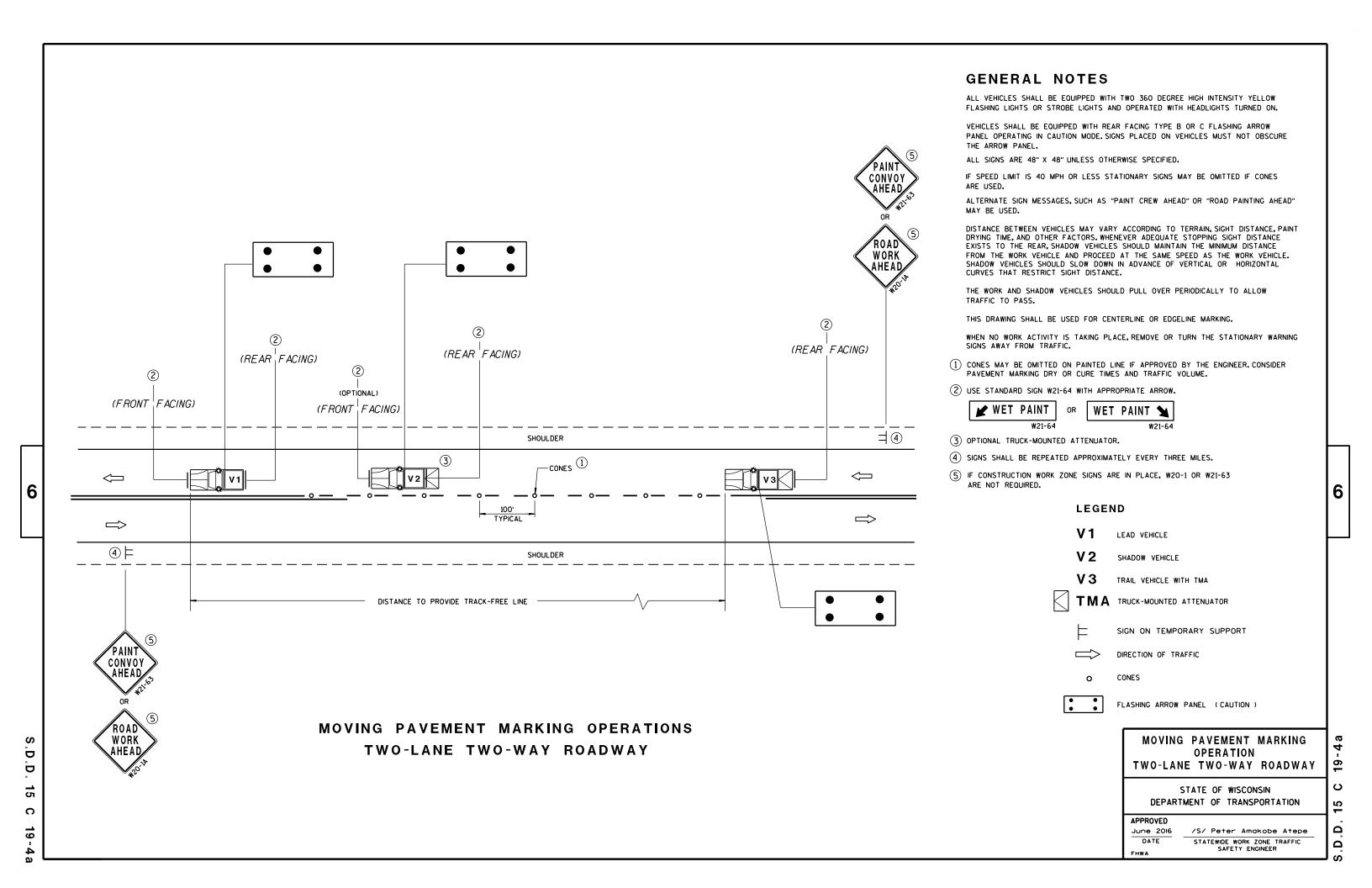
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

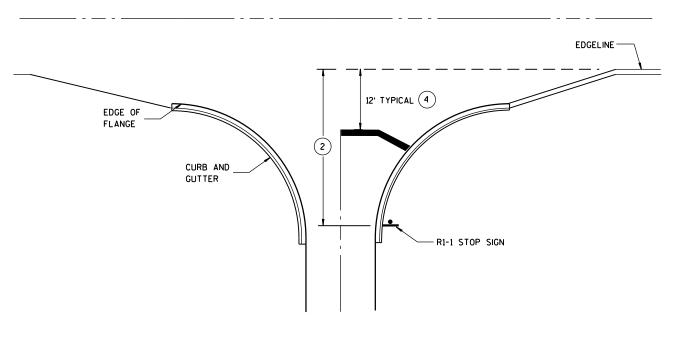
/S/ Andrew Heidtke WORK ZONE ENGINEER

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





8" CHANNELIZATION WHITE

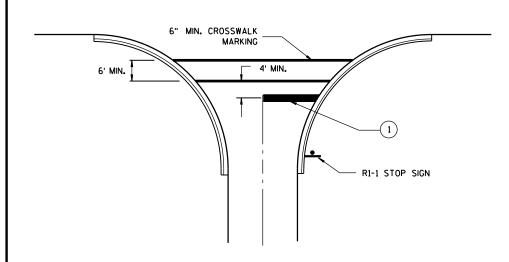
FLANGELINE (EXTENSION)

4" WHITE EDGELINE

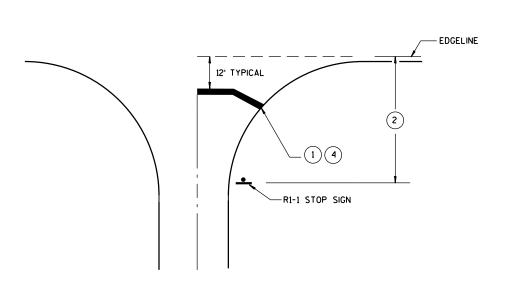
RI-1 STOP SIGN

TYPICAL STOP LINE PAVEMENT MARKING WITH CURB AND GUTTER

TYPICAL STOP LINE PAVEMENT MARKING FOR SIDEROADS WITH RIGHT TURN LANE



TYPICAL STOP LINE PAVEMENT MARKING FOR SIDEROADS WITH CROSSWALK MARKING



TYPICAL STOP LINE PAVEMENT MARKING WITHOUT CURB AND GUTTER

GENERAL NOTES

- 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.
- 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	
4-18-2016	/S/ Matthew R. Rauch
DATE	STATE SIGNING AND MARKING ENGINEER

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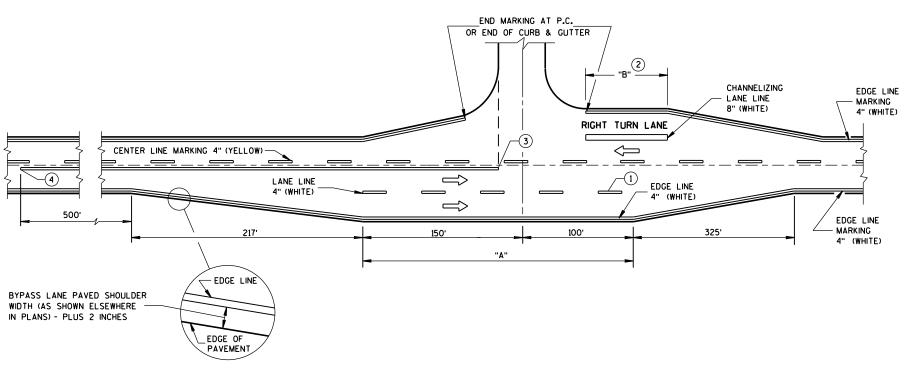
MINOR INTERSECTION WITHOUT CURBS

GENERAL NOTES

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

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

ARROW SYMBOL (>>) SHOWS DIRECTION OF TRAVEL



MAJOR INTERSECTIONS

(INTERSECTION WITH FULL RIGHT TURN LANE OR BYPASS LANES)

PAVEMENT MARKING (INTERSECTIONS)

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

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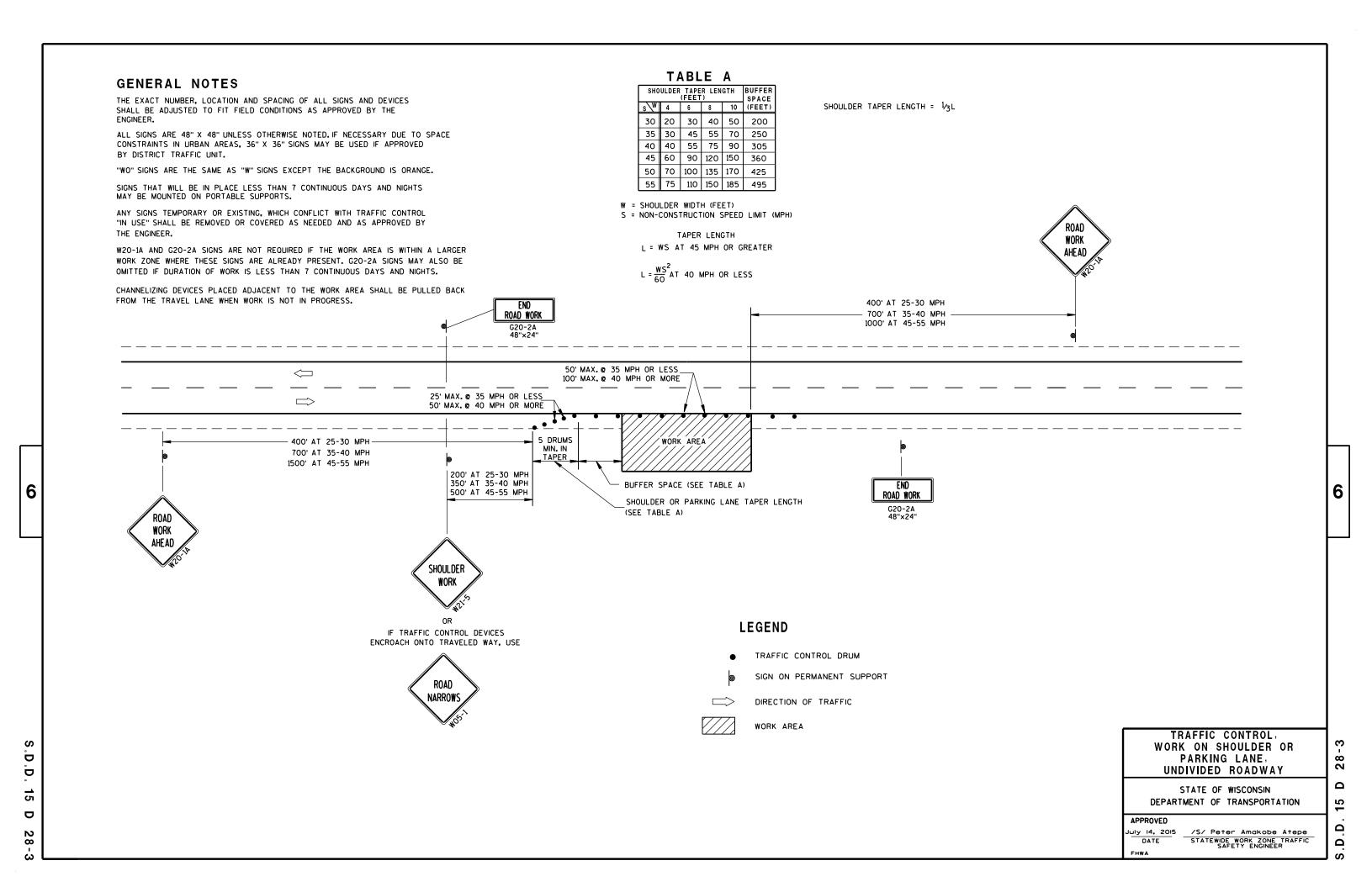
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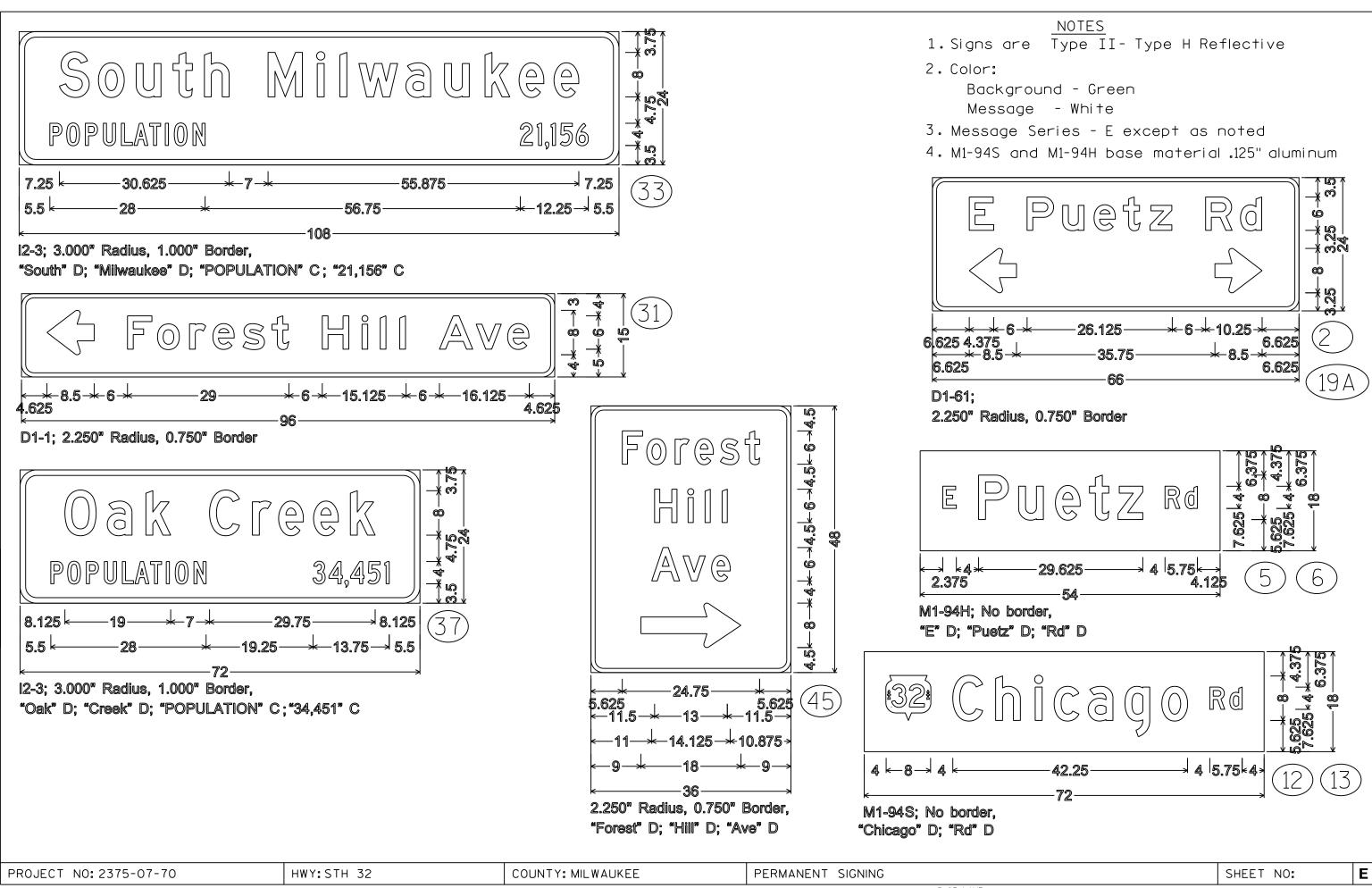
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FILE NAME : C:\CAEfiles\Projects\tr_d2\2401AN16.DGN

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PLOT DATE: 26-JUN-2017 16:24

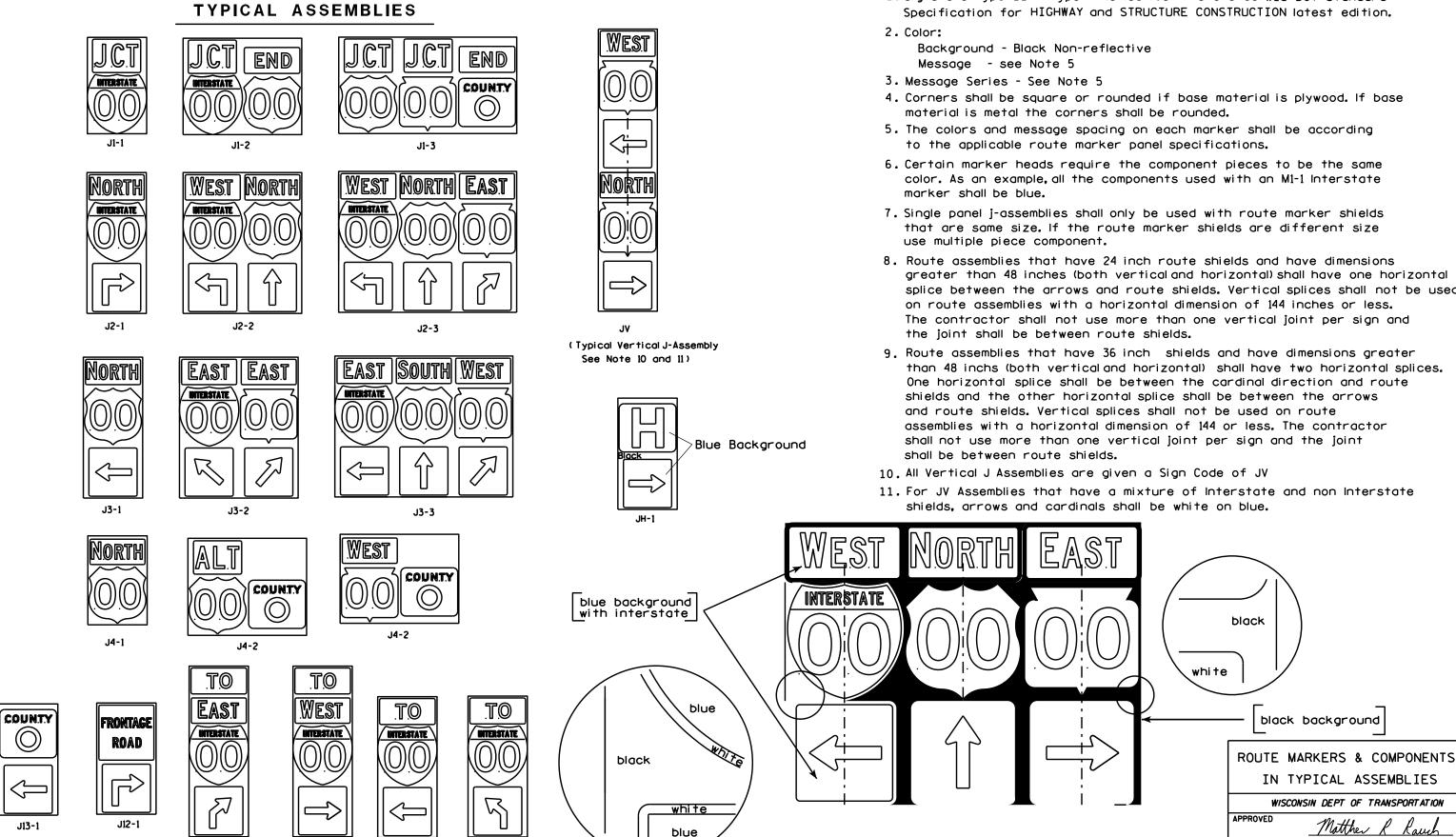
PLOT BY: \$\$...plotuser...\$\$ PLOT NAME:

PLOT SCALE: 15.433884:1.000000

WISDOT/CADDS SHEET 42

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

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



PROJECT NO:

J32-1

J22-1

J23-1

J33-1

PLOT BY: mscsja

PLATE NO. __A2-15.8

DATE 2/06/14

SHEET NO:

URBAN ARFA



RURAL AREA (See Note 2)



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



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

White Edgeline Location

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

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

HWY:

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

PLOT BY : mscj9h

GENERAL NOTES

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

POST EMBEDMENT DEPTH

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

TYPICAL INSTALLATION OF PERMANENT TYPE II SIGNS ON SINGLE POSTS

WISCONSIN DEPT OF TRANSPORTATION

SHEET NO:

APPROVED

for State Traffic Engineer

DATE 7/23/15

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

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

PROJECT NO:

PLOT DATE: 23-JUL-2015 15:21

COUNTY:

PLOT NAME :

PLOT SCALE: 99.237937:1.000000

WISDOT/CADDS SHEET 42



NOTES: 1. ALL MATERIAL TO BE APPROVED

BY ENGINEER PRIOR TO INSTALLATION

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



ELEVATION VIEW

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



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

HWY:



PLAN VIEW

COUNTY:

FOR NEW CONCRETE/ASPHALT INSTALLATIONS

SIGN POST BOX-OUTS A4-3B

WISCONSIN DEPT OF TRANSPORTATION

For State Traffic Engineer

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

SHEET NO:

FILE NAME : C:\CAEFiles\Projects\tr_stdplate\A43B.DGN

PROJECT NO:

PLOT DATE: 27-JAN-2014 09:48

PLOT NAME :

PLOT BY: mscsja

PLOT SCALE: 13.659812:1.000000

APPROVED

WISDOT/CADDS SHEET 42

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

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

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

48" DIAMOND WARNING SIGN

HWY:

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

COUNTY:

Outside Edge

of Gravel

	SIGN SHAPE OTHER THAN DIAMOND (TWO POSTS REQUIRED)										
	L	E									
* * *	Greater than 48" Less than 60"	12"									
	60" to 120"	L/5	l								

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

SIGN SHAPE OTHER THAN DIAMOND (FOUR POSTS REQUIRED)										
L	E									
168" and greater	12"									

POST EMBEDMENT DEPTH

of Gravel

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

TYPICAL INSTALLATION OF TYPE II SIGNS ON MULTIPLE POSTS

Matther

SHEET NO:

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\A44.DGN

PROJECT NO:

PLOT DATE: 23-JUL-2015 15:23

PLOT SCALE: 107.021305:1.000000

WISDOT/CADDS SHEET 42

PLOT NAME :

PLOT BY: mscj9h

WISCONSIN DEPT OF TRANSPORTATION APPROVED

For State Traffic Engineer

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



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

ATTACHMENT OF SIGNS
TO POSTS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

Nather R Raw
For State Traffic Engineer

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

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

PROJECT NO:

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

PLOT DATE . 11-416-2016 11:35

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

SHEET NO:

| | |



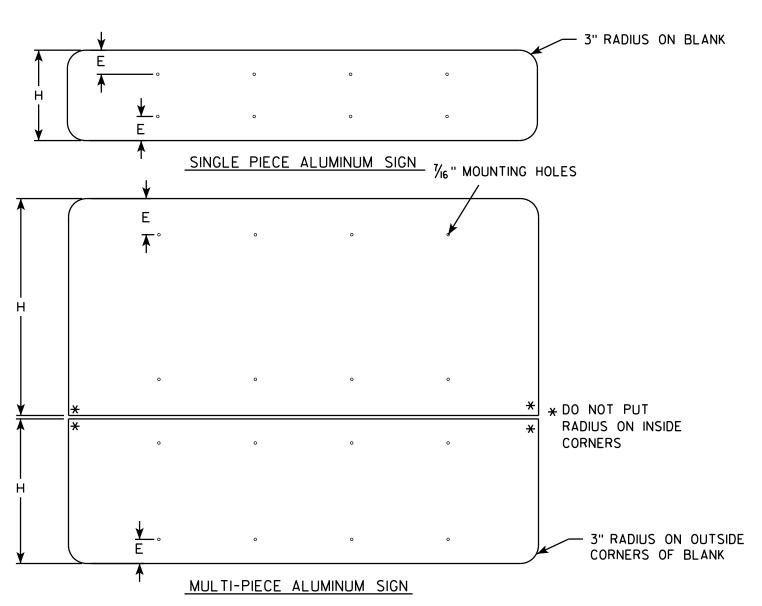
PROJECT NO: HWY: COUNTY: SHEET NO: FILE NAME : C:\CAEFiles\Projects\tr_stdplate\A49.DGN PLOT DATE: 05-FEB-2015 17:09 PLOT BY: mscsja PLOT NAME : PLOT SCALE: 13.659812:1.000000

DATE 2/05/15

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

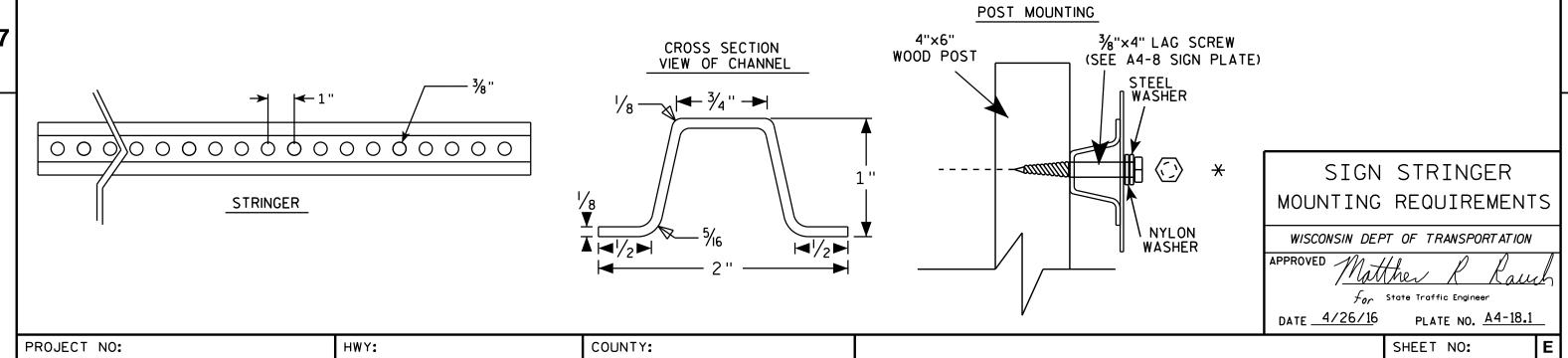
For State Traffic Engineer



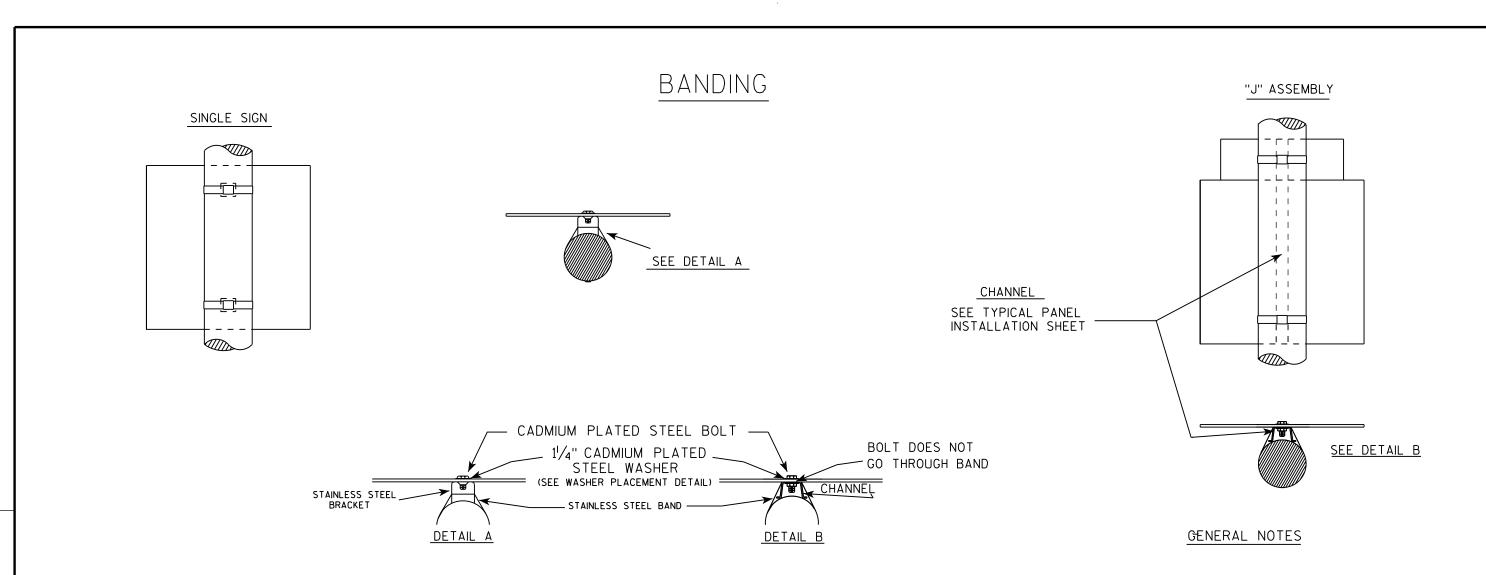


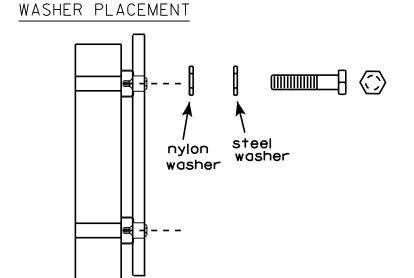
- ALL SIGNS OVER 60" IN WIDTH SHALL HAVE A 3" RADIUS ON THE OUTSIDE CORNERS OF THE ALUMINUM BLANK.
- MOUNTING HOLES SHALL BE $\frac{7}{16}$ " DIAMETER.
- SEE CHART FOR HOLE SPACING REQUIREMENTS
- FOR SIGN PANELS WITH DIMENSION (H) 36" AND OVER, DIMENSION E SHALL BE 6"
- FOR SIGN PANELS WITH DIMENSION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

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



PLOT BY: mscj9h





HWY:

WASHERS (ALL POSTS) -

COUNTY:

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

PLOT BY: mscsja

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

STANDARD SIGN SIGN BANDING DETAILS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

DATE 8/16/13

SHEET NO:

State Traffic Engineer

FILE NAME : C:\CAEFiles\Projects\tr_stdplate\A59.DGN

PROJECT NO:

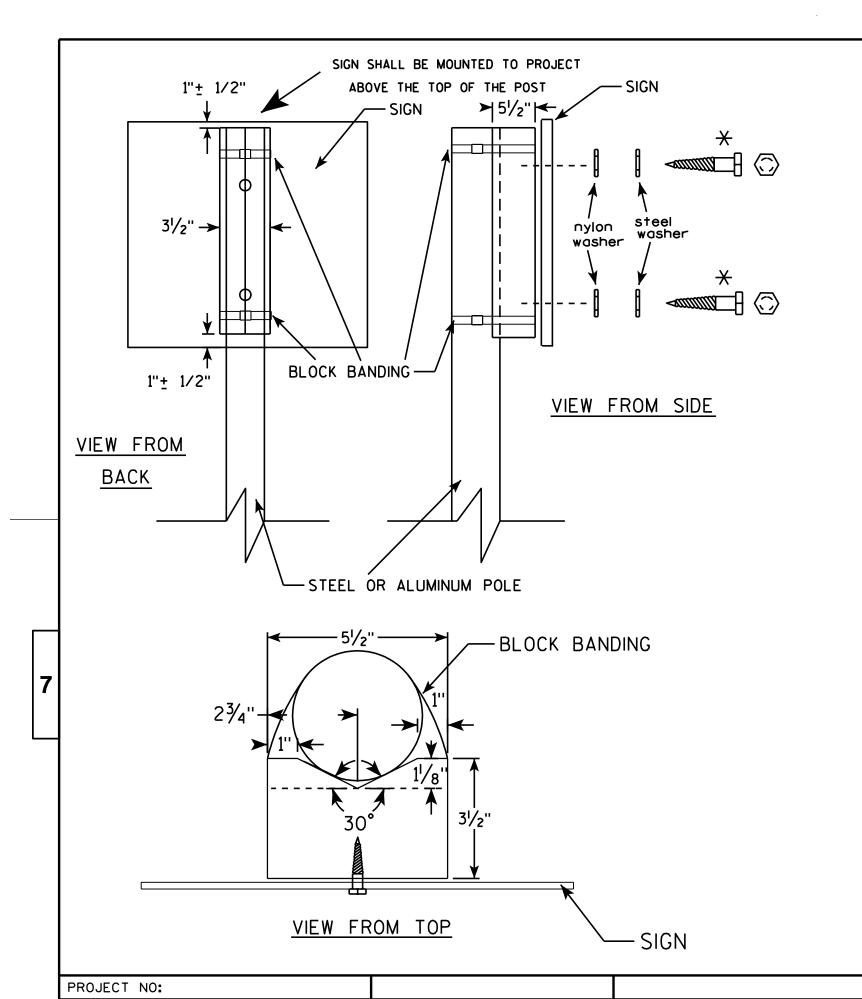
PLOT DATE: 16-AUG-2013 13:27

PLOT NAME :

PLOT SCALE: 33.740899:1.000000

WISDOT/CADDS SHEET 42

PLATE NO. A5-9.3



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

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

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

BLOCK BANDING DETAIL
(V-BLOCK OPTION)

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

APPROVED

For State Traffic Engineer

DATE 7/12/07

PLATE NO. A5-10.1

SHEET NO:

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

2. Color:

Background - Blue Message - White - Type H Reflective

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

D12-2A

Metric equivalent for this sign is:

SIZE 1200 mm X 525 mm 1500 mm X 1050 mm 3 4 1500 mm X 1050 mm

PROJECT NO:

* Variable (See note 5)

5 1950 mm X 1350 mm SIZE Α В С D 1/2 2 3/4 2 3/4 12 1/8 9 3/8 2 1 1/8 10 1/4 3/4 7 3/4 10 5/8 48 21 | 1 1/2 3 3 1/2 7.0 0.63 3/4 24 1/8 18 5/8 3 7/8 2 1/8 20 1/8 1 10 3/8 13 3/8 42 2 1/4 6 17.5 1.58 60 3 24 1/8 18 5/8 3 7/8 2 1/8 20 1/8 1 10 3/8 13 7/8 60 42 2 1/4 3/4 6 17.5 | 1.58 8 30 1/8 23 5/8 4 1/8 2 1/8 26 3/8 1 1/2 5 78 54 8 10 15 1/2 21 1/4 29.25 2.63

STANDARD SIGN D12-2A

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

PLATE NO. <u>D12</u>-2A.3

SHEET NO:

FILE NAME : C:\Users\Projects\tr_stdplate\D122A.DGN

PLOT DATE: 28-SEP-2005 13:19

PLOT BY : DOTDZK

NOTES

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	Α	В	С	D	E	F	G	Н	I	J	К	L	М	N	0	Р	Q	R	S	T	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 %	6 3/4	16 ¾	2 1/2	1 3/4	18 ½													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 ¾	2 1/2	1 3/4	18 ½													8.0	0.72

COUNTY:

STANDARD SIGN G20-2A

WISCONSIN DEPT OF TRANSPORTATION

APPROVED 400 110 00 00 110

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:

PROJECT NO:

PLOT DATE: 30-SEP-2009 09:31

PLOT BY : ditjph

PLOT NAME :

PLOT SCALE : 5.561773:1.000000

5.561773:1.000000 WISDOT/CADDS SHEET 42

<u>NOTES</u>

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

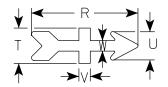
Background - White & Black Message - Black Arrow - Type H Reflective Red

- 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.

BLACK M1-6B Metric equivalent for this sign is:

HWY:

32nd DIVISION ARROW ACTUAL SIZE



TOT THIS SIGN IS:

PROJECT NO:

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.	Area =2
1																												
2	24		1 1/2			12	5 ½	6 1/2	10 1/4	2 1/2	8 1/8	11 1/2	1	1 1/8	11 1/4	21 1/8		5 1/8	3/4	1 1/8	1 1/2	5/8	5/8	9	1/2	10 1/2	4.0	. 36
3	36		2 1/4			18	8 3/4	9 1/4	15 3/8	5	12 %	17 1/8	1 ½	2 1/8	16 1/8	33		7 1/2	1 1/2	2 1/2	2	7/8	3/4	13 ½	3/4	15 ½	9.0	.81
4	36		2 1/4			18	8 3/4	9 1/4	15 3/8	5 3/8	12 %	17 1/8	1 ½	2 1/8	16 1/8	33		7 1/2	1 1/2	2 1/2	2	7/8	3/4	13 ½	3/4	15 ½	9.0	.81
5	36		2 1/4			18	8 3/4	9 1/4	15 ¾	5	12 %	17 1/8	1 1/2	2 1/8	16 1/8	33		7 1/2	1 1/2	2 1/2	2	7/8	3/4	13 1/2	3/4	15 1/2	9.0	. 81

COUNTY:

STATE ROUTE MARKER"32"
M1-6B FOR ASSEMBLIES

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew & Rawl

for State Traffic Engineer

DATE 12/5/05 PLATE NO. M1-6B.2

SCALE : 6 808143:1 000000

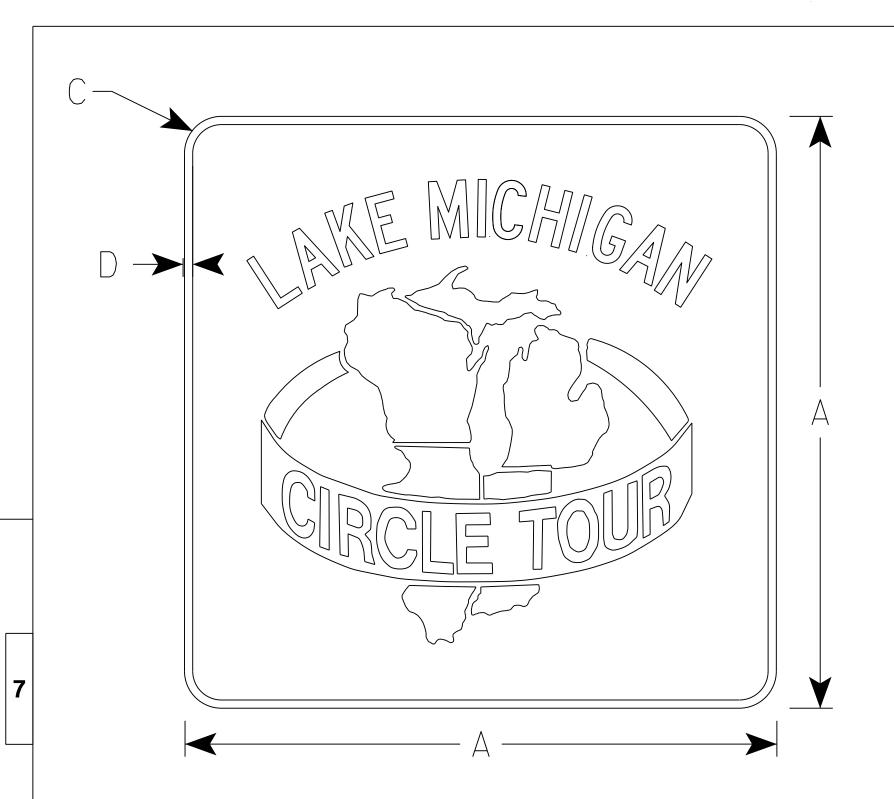
FILE NAME : C:\Users\Projects\tr_stdplate\M16B.DGN

PLOT DATE: 05-DEC-2005 11:29

PLOT BY : DOTDZK

PLOT NAME :

PLOT SCALE: 6.808143:1.000000



HWY:

NOTES

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

Background - Green Message - White - Graphics - White Circle Tour Message is Green

- 3. Message Series Special
- 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	Q	R	S	Т	U	٧	W	Х	Y	Z	Area sq. ft.	Area m2
1 1																												
2	24			1 1/8	1/2																						4.0	.36
3																												
4	36			1 ⁵ / ₈	3/4																						9.0	.81
5																												

COUNTY:

STANDARD SIGN M1 - 93

WISCONSIN DEPT OF TRANSPORTATION

DATE 11/5/15 PLATE NO. M1-93.2

SHEET NO:

Ε

PROJECT NO:







MP3-1









HWY:



NOTES

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

Background - See note 5 Message - See note 5

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

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

MB3-1 thru MB3-4 Background - Blue

Message - White

MK3-1 thru MK3-4 Background - Green

Message - White

MM3-1 thru MM3-4 Background - White

Message - Green

MN3-1 thru MN3-4 Background - Brown

Message - White

MP3-1 thru MP3-4 Background - White

Message - Blue

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

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

COUNTY:

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

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

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

Ε

SHEET NO:

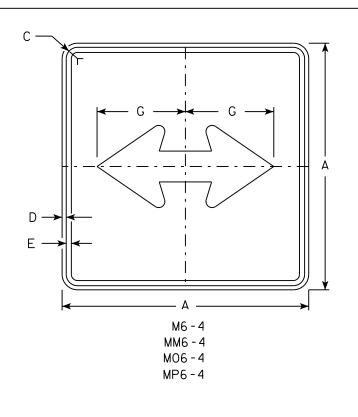
FILE NAME · C·\CAFfiles\Projects\tr stdolote\M31 DCN

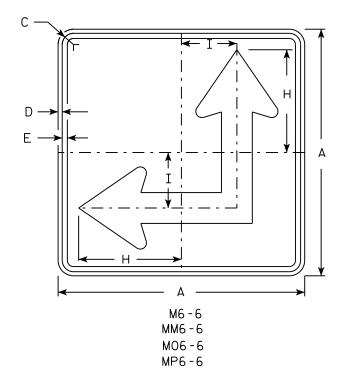
PROJECT NO:

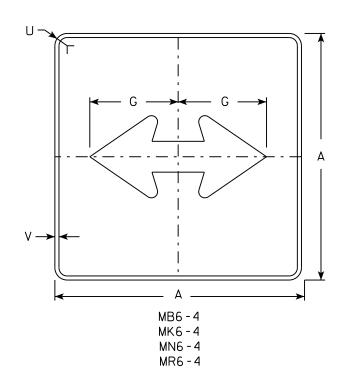
PLOT DATE . 01-DEC-2015 17:54

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

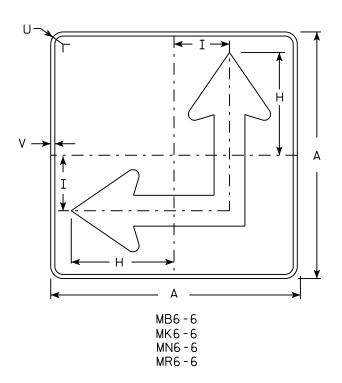
PLOT SCALE . 11 675051.1 000000







HWY:



NOTES

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

Background - See Note 4 Message - See Note 4

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

MB6-4 and MB6-6 Background - Blue

Message - White

MK6-4 and MK6-6 Background - Green

Message - White

and MM6-6 Background - White MM6-4

Message - Green

MN6-4 and MN6-6 Background - Brown

Message - White

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

Message - Black

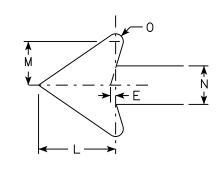
MP6-4 and MP6-6 Background - White

Message - Blue

MR6-4 and MR6-6 Background - Brown

Message - Yellow

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



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

COUNTY:

STANDARD SIGN M6-4 & M6-6 SERIES

WISCONSIN DEPT OF TRANSPORTATION

SHEET NO:

APPROVED

DATE 10/15/15

PLATE NO. M6-4.10 Ε

PLOT DATE . 01-DEC-2015 17.58

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

PLOT SCALE . 11 675051.1 000000

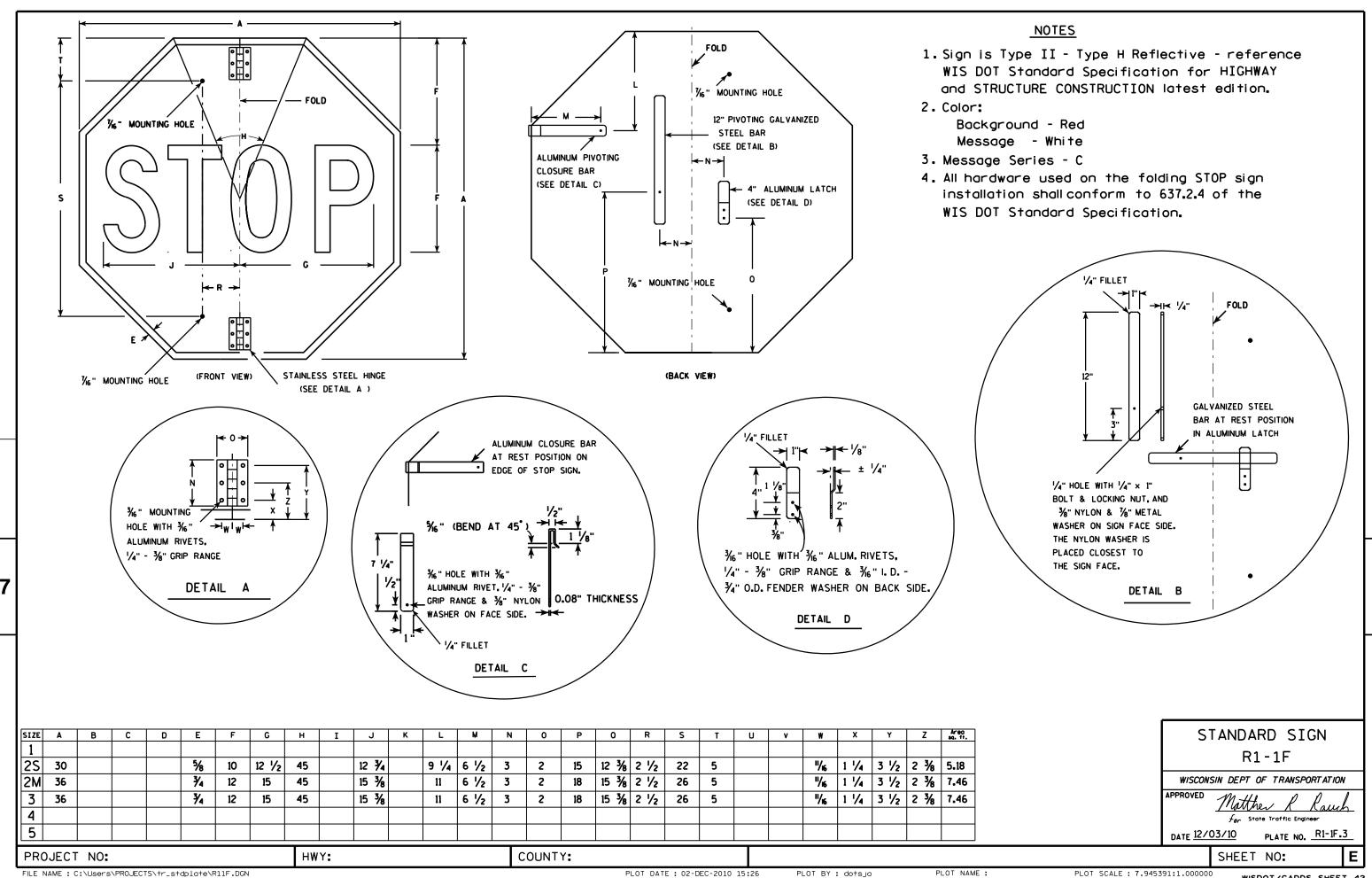
PROJECT NO:

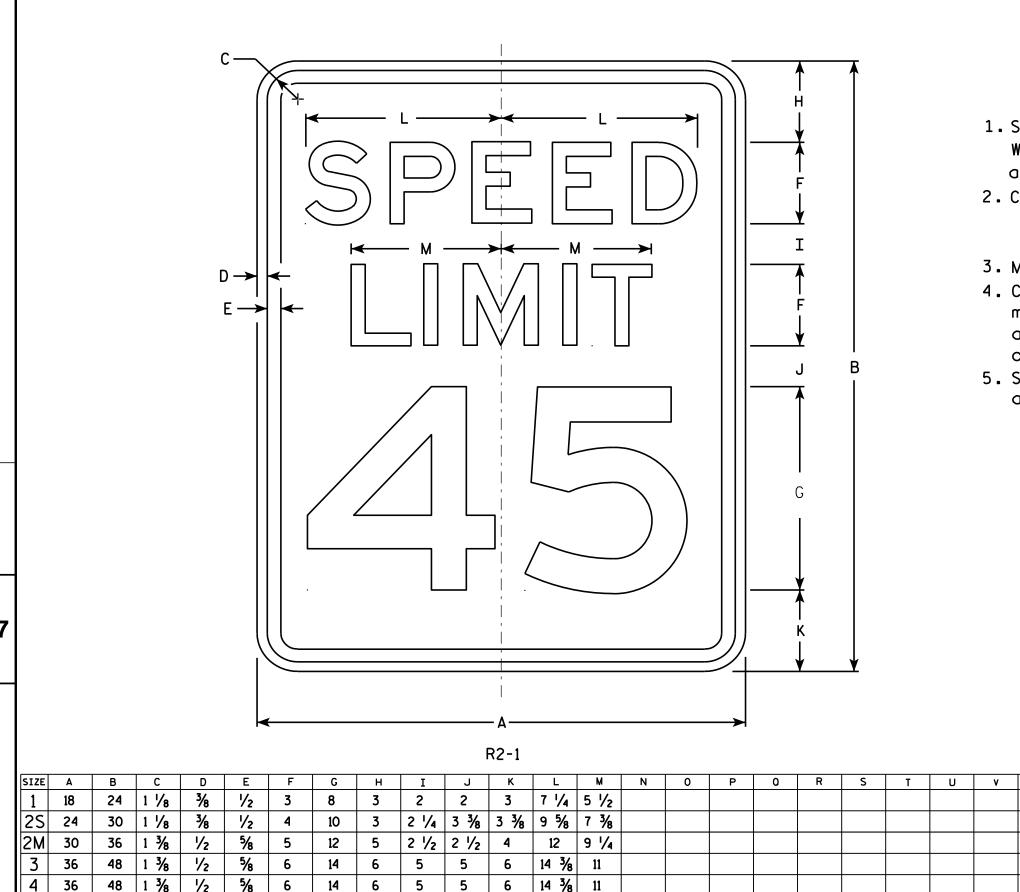
NOTES 1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition. 2. Color: Background - Red Message - White 3. Message Series - C R1-1 SIZE A STANDARD SIGN 30 5/8 10 12 1/2 45° 12 3/4 5.18 2S 30 5/8 12 1/2 45° 12 3/4 10 5.18 R1-1 2M 36 3/4 12 15 45° 15 % 7.46 3/4 15 3/8 12 45° 36 15 7.46 WISCONSIN DEPT OF TRANSPORTATION 45° 20 1/2 48 16 20 13.25 APPROVED Matthew & Kauch 5 48 16 20 45° 20 1/2 13.25 3/8 7 3/4 45° 7 3/4 1.86 18 6 For State Traffic Engineer 12 1/4 4 45° 5 1/8 0.78 DATE <u>11/12/15</u> PLATE NO. _____R1-1.13 COUNTY: SHEET NO: PROJECT NO: HWY: PLOT SCALE • 4 378143•1 000000

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

PLOT DATE . 01-DEC-2015 18:07

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





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

COUNTY:

20

HWY:

6

NOTES

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

Background - White Message - Black

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

3.0

5.0

7.5

12.0

12.0

20.0

STANDARD SIGN R2-1

WISCONSIN DEPT OF TRANSPORTATION APPROVED

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

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

SHEET NO:

2 1/4

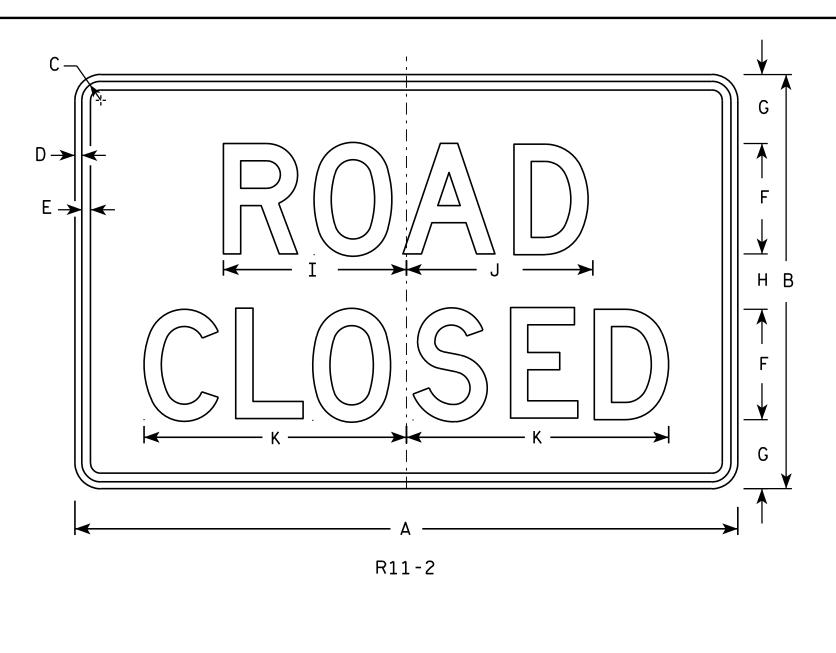
60

5

48

PROJECT NO:

PLOT NAME :

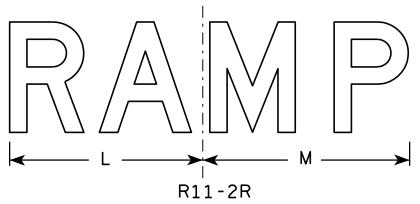


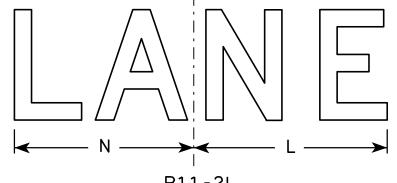
<u>NOTES</u>

- 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.
- 5. Modify the message as required.





R	1	1	-	2	L

PLOT NAME :

SIZ	Έ	A	В	С	D	Ε	F	G	Н	I	J	K	L	M	N	0	Р	0	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																												
2	S	48	30	1 3/8	1/2	5/8	8	5	4	13 1/4	13 1/2	19	14	15	13													10.0
21	I	48	30	1 3/8	1/2	5/8	8	5	4	13 1/4	13 ½	19	14	15	13													10.0
3		48	30	1 3/8	1/2	5/8	8	5	4	13 1/4	13 1/2	19	14	15	13													10.0
4		48	30	1 3/8	1/2	5/8	8	5	4	13 1/4	13 1/2	19	14	15	13													10.0
5		48	30	1 3/8	1/2	5/8	8	5	4	13 1/4	13 ½	19	14	15	13													10.0

COUNTY:

STANDARD SIGN R11-2

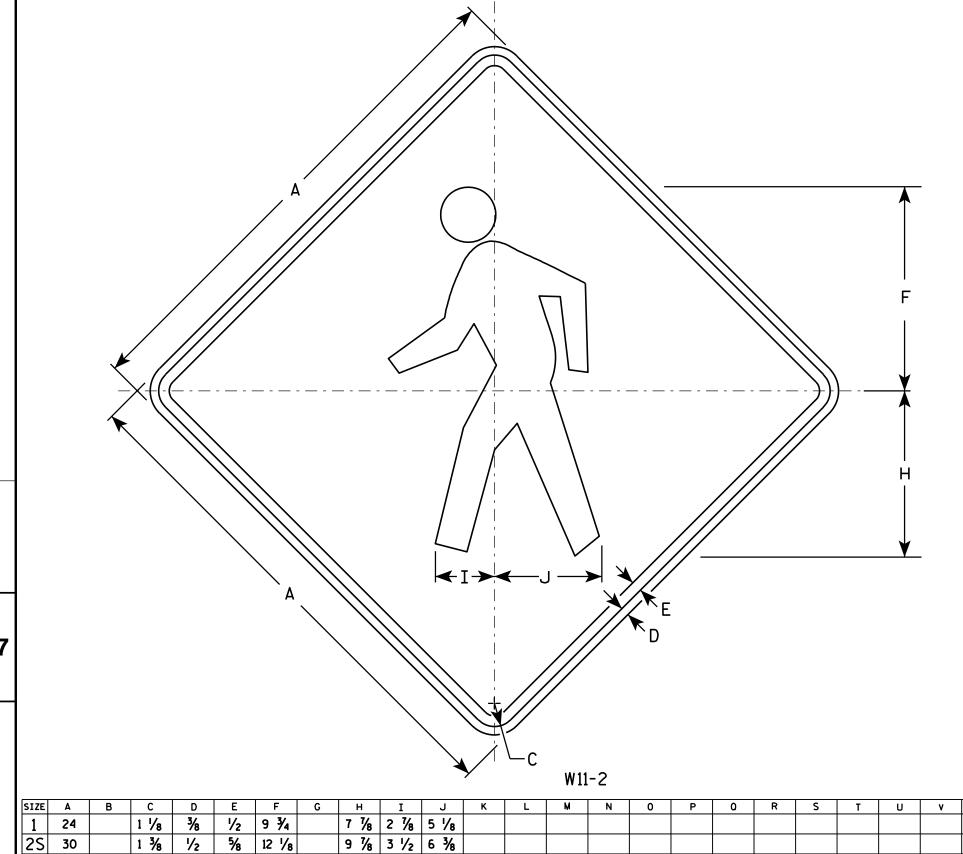
WISCONSIN DEPT OF TRANSPORTATION

DATE 4/1/11 PLATE NO. R11-2.10

SHEET NO:

HWY:

PROJECT NO:



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

STANDARD SIGN W11-2

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

For State Traffic Engineer

DATE 6/7/10

PLATE NO. W11-2.7

SHEET NO:

FILE NAME : C:\Users\PROJECTS\tr_stdplate\W112.DGN

1 1/8

1 %

2 1/4 3/4

2M

3

4 48

5

PROJECT NO:

5/8

5/8

3/4

14 1/2

3/4 14 1/2

1 19 3/8

11 1/8 4 1/4 7 5/8

11 1/8 4 1/4 7 5/8

15 3/4 5 5/8 10 1/4

HWY:

PLOT DATE: 07-JUN-2010 13:29

COUNTY:

PLOT NAME :

PLOT BY: ditjph

4.0

6.25

9.0

9.0

16.0

PLOT SCALE: 5.700818:1.000000



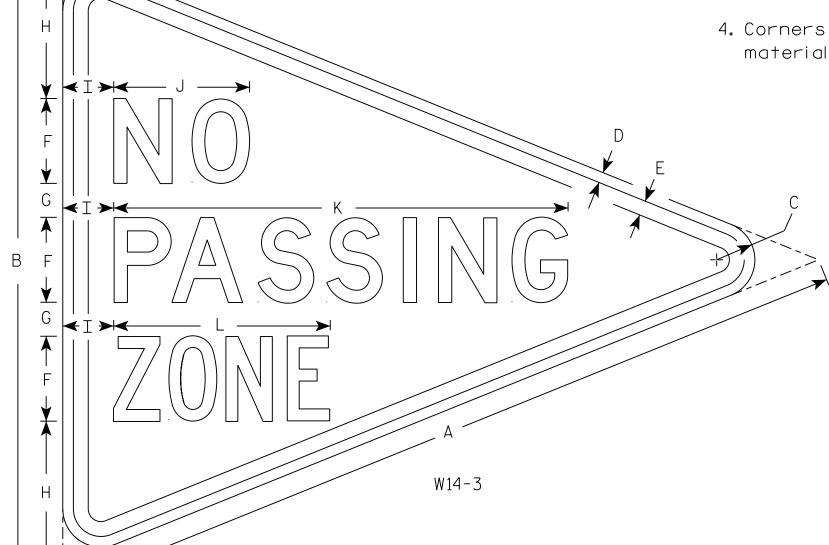
- 1. Sign is Type II Type F Reflective
- 2. Color:

Background - Yellow

Message – Black

3. Message Series - Lines 1 and 2 are Series D. Line 3 is series C.

4. Corners and borders shall be rounded on all base materials for this sign.



			,																								
SIZE	Α	В	С	D	E	F	G	Н	I	J	K	L	М	N	0	Р	0	R	S	Т	U	٧	W	Х	Y	Z	Area sq. ft.
1																											
2S	48	36	2 1/4	5/8	<i>7</i> ⁄8	5	2	8 ½	3	8	26 ¾	12 3/4															5 . 56
2M																											
3																											
4																											
5																											
PRC	JECT	NO:					Н	WY:					COL	INTY:													

STANDARD SIGN W14-3

WISCONSIN DEPT OF TRANSPORTATION

500 3/21/17

E 3/21/17 PLATE NO. W14-3

SHEET NO:

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\W143.DGN

PLOT DATE: 21-MAR-2017 08:48

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

PLOT SCALE : 5.650195:1.000000

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. W16-7R is the same as W16-L except the arrow is reversed along the vertical centerline.

E	E —
	C →
W16-7L	

2M 3 4	30 30	18	3/8 3/8	1/2	1 1/8	4 1/2	30° 30°	8 1/2	6	5% 5%	10 1/4									3.75 3.75 8
5 PRO	JECT	NO:					НW	Y:				COUN	TY:							8

STANDARD SIGN W16-7

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Ray

For State Traffic Engineer

DATE 11/02/10 PLATE NO. W16-7.5

SHEET NO:

FILE NAME : C:\Users\PROJECTS\tr_stdplate\W167.DGN

PLOT DATE: 02-NOV-2010 09:34

PLOT BY: dotsja

PLOT NAME :

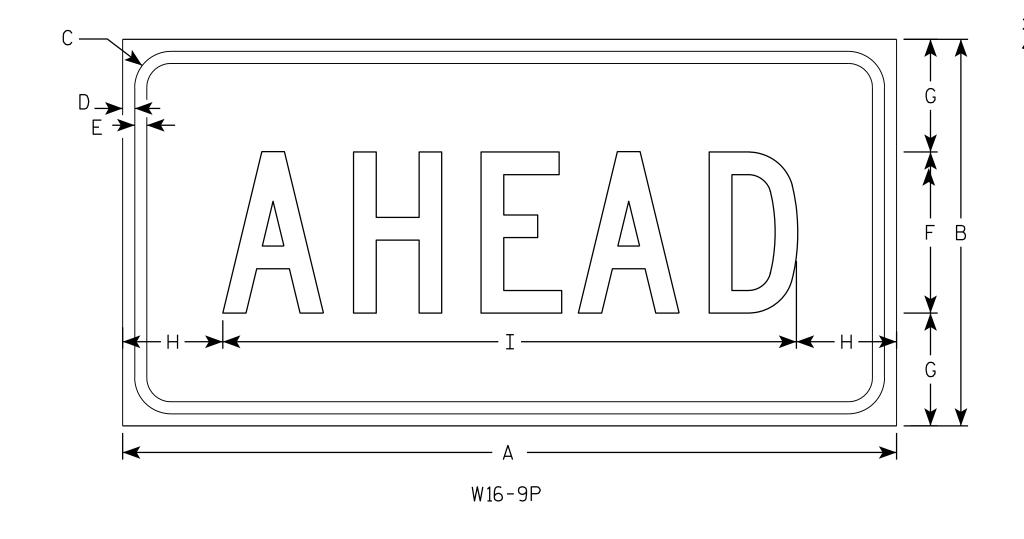
PLOT SCALE: 3.972696:1.000000

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



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

COUNTY:

STANDARD SIGN W16-9P

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

Matther R Rawh
For State Traffic Engineer

DATE 12/28/10

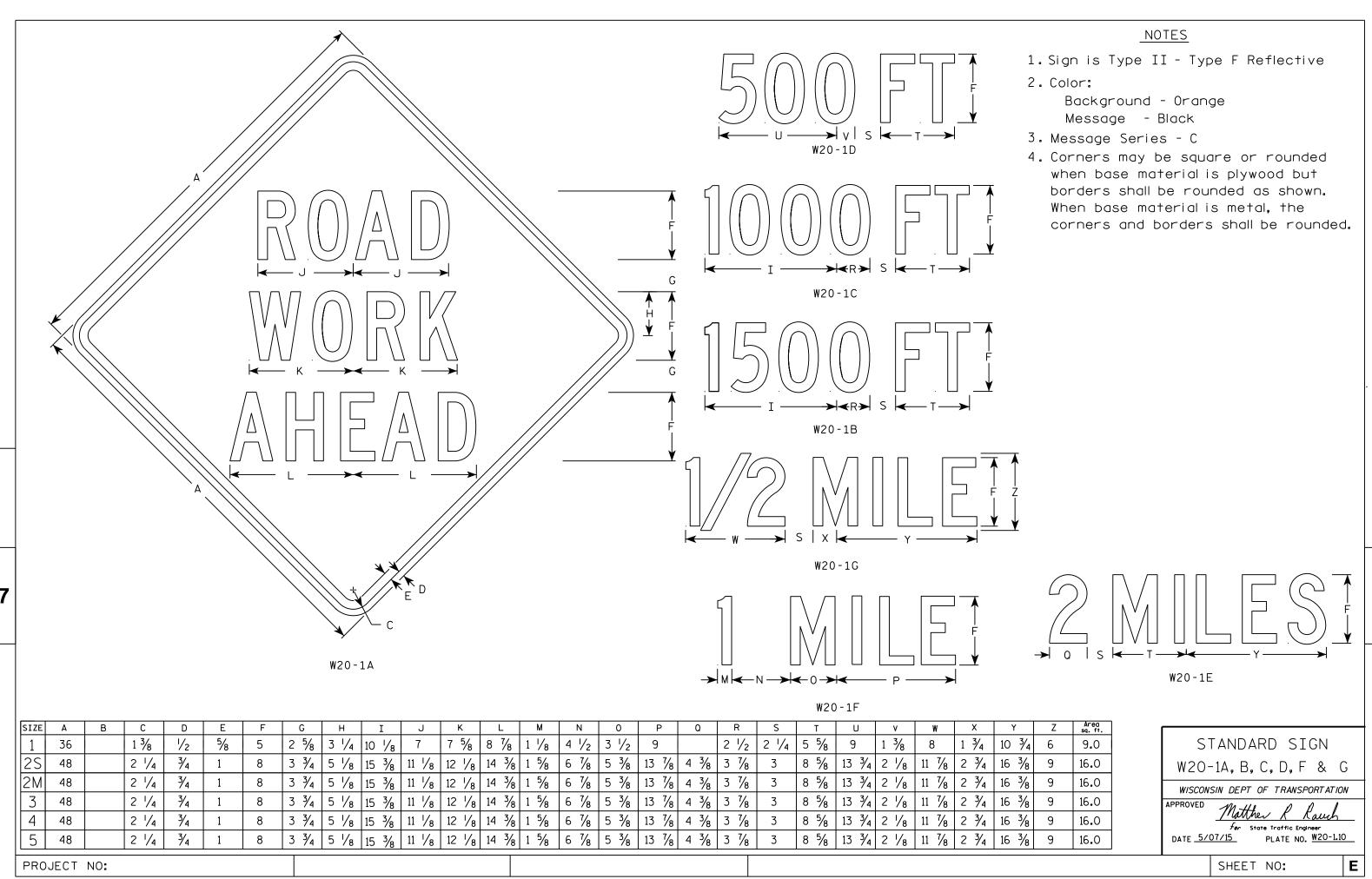
PLATE NO. W16-9P.6

SHEET NO:

HWY:

PROJECT NO:

PLOT NAME :



FILE NAME . C.\CAFfiles\Projects\tr stdolote\W201 DCN

PLOT DATE . 01-DEC-2015 18.24

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

EARTHWORK

				AREA (SF)						Incremental Vol (CY) (Unadjusted)						Cumulative Vol (CY)							
										· / · · · ·						•		Expanded Marsh	1	Expanded EBS	Reduced Marsh	Reduced EBS	1
	l F	Real Station		Cut	Salvaged/Unusable	e Fill M	Marsh Exc	Rock Exc	EBS	Cut	Salvaged/Unusable	Fill	Marsh Ex	Rock Exc	c EBS	Cut	Expanded Fill	Backfill	Expanded Rock	Backfill	in Fill	In Fill	Mass Ordinate
STA			Distance		Pavement Material						Pavement Material					1.00	1.25	1.50	1.10	1.30	0.60	0.80	
										Note 1	Note 2	Note 3				Note 1		Note 4		Note 5	Note 6	Note 7	Note 8
106+	84 72	10634.72	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
106+		10637.92	3.20	0.00	0.00	0.00	0.00		0.00	0	0	n	Ô	l ő	o o	Ô	ő	0	ň	ñ	0.00	0.00	0.00
106		10650.00	12.08	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	0	0	ő	0	ů	o 0	0.00	0.00	0.00
106		10675.00	25.00	1.05	0.00	0.00	0.00	0.00	0.00	0	0	n	0	0	0	0	0	0	0	0	0.00	0.00	0.48
106+		10691.51	16.51	2.25	0.00	0.00	0.00	0.00	0.00	1	0	0	0	0	0	1	0	0	0	0	0.00	0.00	1.49
100+		10700.00	8.49	20.57	0.00	0.00	0.00	0.00	0.00	1	0	0	0	0	0	5	0	0	0	0	0.00	0.00	5.08
107		10725.00	25.00	22.91	0.00	0.00	0.00	0.00	0.00	20	0	0	0	0	0	25	0	0	0	0	0.00	0.00	25.21
	+50	10750.00	25.00	23.56	0.00	0.00	0.00	0.00	0.00	22	0	0	0	0	0	47	0	0	0	0	0.00	0.00	46.72
107		10775.00	25.00	22.52	0.00	0.00	0.00		0.00	21	0	0	0	0	0	68	0	0	0	0	0.00	0.00	68.06
	+00	10800.00	25.00	19.88	0.00	0.00	0.00	0.00	0.00	20	0	0	0	0	0	88	0	0	0	0	0.00	0.00	87.68
		10825.00	25.00	18.12	0.00	0.00	0.00	0.00	0.00	18	0	0	0	0	0	105	0	0	0	0	0.00	0.00	105.28
	+25 +50	10825.00	25.00	14.48		0.00	0.00		0.00	15	0	0	0	0	0	120	0	0	0	0	0.00	0.00	120.36
	+75	10830.00	25.00	11.22	0.00 0.00	0.00	0.00	0.00 0.00	0.00	12	0	0	0	0	0	132	0	0	0	0	0.00	0.00	132.26
	+00	10900.00	25.00	12.33	0.00	0.06	0.00	0.00	0.00	11	0	0	0	0	0	143	0	0	0	0	0.00	0.00	143.13
	+25	10900.00	25.00	13.93	0.00	0.57	0.00	0.00	0.00	12	0	0	0	0	0	155	0	0	0	0	0.00	0.00	154.92
109		10925.00	25.00	19.75	0.00	0.57	0.00	0.00	0.00	16	0	1	0	0	0		1 1	0	0	0	0.00	0.00	169.85
		10950.00	25.00	27.10	0.00	0.57	0.00	0.00	0.00	22	0	1	0	0	0	171 193	1 1	0	0	0	0.00		190.89
	+75	11000.00	25.00	30.21	0.00	0.33	0.00	0.00	0.00	27	0	1	0	0	0	219	2	0	0	0	0.00	0.00 0.00	216.95
	+00		25.00	30.21	0.00	0.26		0.00	0.00	28	0	0	0	0	0	219	2	0	0	0	0.00	0.00	216.95
	+25 +50	11025.00 11050.00	25.00	24.80	0.00	0.06	0.00 0.00	0.00	0.00	28 25	0	0	0	0	0	247	2	0	0	0	0.00	0.00	244.67 269.71
	+30 +75	11050.00	25.00	7.33	0.00	0.55	0.00	0.00	0.00	25 15	0	1	0	0	0	287	3	0	0	0	0.00	0.00	283.73
111		111075.00	25.00			0.93	0.00	0.00	0.00	12	0	1	0	0	0		4 -	0	0	0		0.00	
		11100.00	25.00	4.13 11.50	0.00 0.00	0.73	0.00	0.00	0.00	<u> </u>	0	1	0	0	0	293 300	5	0	0	0	0.00 0.00	0.00	288.09 294.76
111	+25	11125.00	25.00	29.96	0.00	0.24	0.00	0.00	0.00	19	0	0	0	0	0	319	5 5	0	0	0	0.00	0.00	313.59
	+30 +75	11175.00	25.00	29.96	0.00	0.39	0.00	0.00	0.00	28	0	0	0	0	0	319 347	5	0	0	0	0.00	0.00	313.59
	+00	11173.00	25.00	32.22	0.00	0.00	0.00	0.00	0.00	29	0	0	0	0	0	375	6	0	0	0	0.00		369.23
	+00 +25	11200.00	25.00	25.71	0.00	0.00	0.00	0.00	0.00	27	0	0	0	0	0	402	6	0	0	0	0.00	0.00 0.00	396.05
	+23 +50	11250.00	25.00	26.26	0.00	0.00	0.00		0.00	24	0	0	0	0	0	426	6	0	0	0	0.00	0.00	420.11
	+30 +75	11275.00	25.00	4.09	0.00	0.00	0.00	0.00	0.00	24 14	0	0	0	0	0	440	6	0	0	0	0.00	0.00	434.15
113		11300.00	25.00	0.00	0.00	0.00	0.00	0.00	0.00	2	J 0	0	١	0	0	440	6	0	0	0	0.00	0.00	434.15
113		11300.00	25.00	26.86	0.00	0.00	0.00	0.00	0.00	12	0	0	0	0	0	455	6	0	0	0	0.00	0.00	448.48
113+		11325.00	3.11	32.72	0.00	0.00	0.00	0.00	0.00	3	0	0	0	0	0	453 458	6	0	0	0	0.00	0.00	446.46 451.92
		11350.00	21.89	13.53	0.00	0.00	0.00	0.00		19	0	0	0	0	0	456 477	6	0	0	0		0.00	
113			25.00	13.53	0.00	0.00	0.00	0.00	0.00	19	0	0	0	0	0	477 489	6	0	0	0	0.00 0.00		470.66 482.70
113		11375.00	25.00	12.47	0.00	0.00	0.00	0.00	0.00	12	0	0	0	0	0	500	6	0	0	0	0.00	0.00 0.00	482.70 494.36
	+00	11400.00									0	0	0	0	0		6	0	0	0			505.60
	+25	11425.00	25.00	11.59	0.00	0.00	0.00	0.00	0.00	11	0	Ü	U	0		512	6	U	U	U I	0.00	0.00	
	+50	11450.00	25.00	10.27	0.00	0.00	0.00	0.00	0.00	10	0	U	U	U	0	522	6	U	U	U I	0.00	0.00	515.72
	+75	11475.00	25.00	10.36	0.00	0.24	0.00	0.00	0.00	10	0	U	U	U	0	531	6 7	U	U	0	0.00	0.00	525.13
	+00	11500.00	25.00	8.21	0.00	0.38	0.00	0.00	0.00	9	0	U	U	U	0	540	/	U	U	U I	0.00	0.00	533.37
115		11525.00	25.00	8.93	0.00	2.49	0.00	0.00	0.00	ŏ	0	1	U	1 0		548	δ	U	U	U I	0.00	0.00	539.65
	+50	11550.00	25.00	9.74	0.00	1.34	0.00	0.00	0.00	9	0	2	U	U	0	556	10	U	U	U	0.00	0.00	546.07
115		11575.00	25.00	12.26	0.00	0.13	0.00	0.00	0.00	10	0	1	U	U	0	567	11	U	U	U I	0.00	0.00	555.40
116	+00	11600.00	25.00	14.51	0.00	0.07	0.00	0.00	0.00	12	I 0	U	l o	U	0	579	11	U	U	U	0.00	0.00	567.68

9

SHEET 1 OF 2

PROJECT NO: 2375-07-70 HWY: STH 32 COUNTY: MILWAUKEE EARTHWORK DATA SHEET: **E**

FILE NAME : PLOT DATE : PLOT BY : _____ PLOT NAME : _____ PLOT NAME : _____ PLOT SCALE : 1:1

|9

EARTHWORK

			AREA (SF)					In	ncremental Vol (CY) (Unadjusted)						Cumulative Vol (CY))				I 		_
	Real Station		Cut	Salvaged/Unusable	Fill Ma	ırsh Exc	Rock Exc E	EBS	Cut	Salvaged/Unusable	Fill	Marsh Exc	Rock Exc	EBS	Cut	Expanded Fill	Expanded Marsh Backfill	n Expanded Rock	Expanded EBS Backfill	Reduced Marsh in Fill	Reduced EBS In Fill	Mass Ordina
TATION		Distance	•	Pavement Material					Note 1	Pavement Material Note 2	Note 3	1			1.00 Note 1	1.25	1.50 Note 4	1.10	1.30 Note 5	0.60 Note 6	0.80 Note 7	Note 8
16+25	11625.00	25.00	6.10	0.00		0.00		0.00	10	0	0	0	0	0	589	12	0	0	0	0.00	0.00	576.87
116+50	11650.00 11675.00	25.00 25.00	4.39 12.84	0.00 0.00		0.00		0.00 0.00	5	0	1 2	0	0	0	593 601	13 15	0	0	0 0	0.00 0.00	0.00 0.00	580.41 586.06
l16+75 l17+00	11700.00	25.00	11.88			0.00		0.00	8 11	0	2	0	0	0	613	17	0	0	0	0.00	0.00	595.48
117+25	11725.00	25.00	10.09	0.00	1.24	0.00		0.00	10	0	1	0	0	0	623	19	0	0	0	0.00	0.00	604.24
l17+50 l17+75	11750.00 11775.00	25.00 25.00	13.57 6.43			0.00		0.00 0.00	11 9	0	1 0	0	0 0	0	634 643	20 20	0 0	0	0 0	0.00 0.00	0.00 0.00	614.43 623.63
118+00	11800.00	25.00	1.04	0.00	0.00	0.00	0.00	0.00	3	0	0	0	0	0	647	20	0	0	Ö	0.00	0.00	627.09
118+25 118+50	11825.00 11850.00	25.00 25.00	0.82 7.00			0.00		0.00 0.00	1	0	0 0	0	0 0	0	648 651	20 20	0 0	0	0 0	0.00 0.00	0.00 0.00	627.95 631.58
118+30 118+75	11875.00	25.00	9.74			0.00		0.00	8	0	1	0	0	0	659	21	0	0	0	0.00	0.00	638.29
119+00	11900.00	25.00	13.29			0.00		0.00	11	0	1	0	0	0	670	22	0	0	0	0.00	0.00	647.83
l19+25 l19+50	11925.00 11950.00	25.00 25.00	20.13 29.98			0.00		0.00 0.00	15 23	0	0 0	0	0 0	0	685 708	22 22	0 0	0	0 0	0.00 0.00	0.00 0.00	663.22 686.42
119+75	11975.00	25.00	35.61	0.00	0.00	0.00	0.00	0.00	30	0	0	0	0	0	739	22	0	0	0	0.00	0.00	716.79
120+00	12000.00 12025.00	25.00 25.00	31.90 24.06			0.00		0.00 0.00	31 26	0	0 0	0	0 0	0	770 796	22 22	0	0	0 0	0.00 0.00	0.00 0.00	748.04
120+25 120+50	12025.00	25.00	24.06			0.00		0.00	20 21	0	0	0	0	0	817	22	0	0	0	0.00	0.00	773.94 795.16
120+75	12075.00	25.00	14.01	0.00	0.00	0.00		0.00	17	0	0	0	0	0	834	22	0	0	0	0.00	0.00	811.72
121+00 121+25	12100.00 12125.00	25.00 25.00	18.07 16.98			0.00		0.00 0.00	15 16	0	0 0	0	0 0	0	848 865	22 22	0 0	0	0 0	0.00 0.00	0.00 0.00	826.57 842.80
121+50	12123.00	25.00	18.62			0.00		0.00	16	0	0	0	0	0	881	22	0	0	0	0.00	0.00	859.27
121+75	12175.00	25.00	3.14			0.00		0.00	10	0	0	0	0	0	891	22	0	0	0	0.00	0.00	869.35
122+00 122+25	12200.00 12225.00	25.00 25.00	0.00 10.85			0.00		0.00 0.00	1 5	0	0 0	0	0 0	0	893 898	22 22	0 0	0	0 0	0.00 0.00	0.00 0.00	870.80 875.82
122+50	12250.00	25.00	22.81	0.00	0.00	0.00	0.00	0.00	16	0	0	0	0	0	913	22	0	0	0	0.00	0.00	891.40
122+75	12275.00	25.00	24.14			0.00		0.00	22	0	0	0	0	0	935	22	0 0	0	0	0.00	0.00	913.14
.23+00 .23+25	12300.00 12325.00	25.00 25.00	24.14 23.00			0.00		0.00 0.00	22 22	0	0 0	0	0 0	0	957 979	22 22	0	0	0 0	0.00 0.00	0.00 0.00	935.49 957.28
123+50	12350.00	25.00	22.05	0.00	0.16	0.00	0.00	0.00	21	0	0	0	0	0	1,000	22	0	0	0	0.00	0.00	978.01
123+75 124+00	12375.00 12400.00	25.00 25.00	26.23 27.66			0.00		0.00 0.00	22 25	0	0 0	0	0 0	0	1,022 1,047	22 22	0 0	0	0 0	0.00 0.00	0.00 0.00	1,000.22 1,025.09
124+00	12425.00	25.00	15.75			0.00		0.00	20	0	0	0	0	0	1,047	22	0	0	0	0.00	0.00	1,025.03
124+50	12450.00	25.00	17.06			0.00		0.00	15	0	0	0	0	0	1,083	22	0	0	0	0.00	0.00	1,060.36
124+75 125+00	12475.00 12500.00	25.00 25.00	10.58 20.17			0.00		0.00 0.00	13 14	0	0 0	0	0 0	0	1,095 1,110	22 22	0 0	0	0 0	0.00 0.00	0.00 0.00	1,073.15 1,087.39
125+25	12525.00	25.00	15.47	0.00	0.00	0.00		0.00	16	0	0	Ö	0	0	1,126	22	0	0	Ö	0.00	0.00	1,103.89
125+50 125+75	12550.00 12575.00	25.00 25.00	15.86 15.44			0.00		0.00 0.00	15 14	0	0 0	0	0 0	0	1,141 1,155	22 22	0 0	0	0 0	0.00 0.00	0.00 0.00	1,118.39
125+75 126+00	12600.00	25.00	11.14			0.00		0.00	14	0	0	0	0	0	1,167	22	0	0	0	0.00	0.00	1,132.88 1,145.18
126+25	12625.00	25.00	7.50	0.00	0.00	0.00	0.00	0.00	9	0	0	0	0	0	1,176	22	0	0	0	0.00	0.00	1,153.83
126+50 6+67.35	12650.00 12667.35	25.00 17.35	8.02 7.25			0.00		0.00 0.00	7	0	0 0	0	0 0	0	1,183 1,188	22 22	0 0	0	0 0	0.00 0.00	0.00 0.00	1,160.99 1,165.90
126+75	12675.00	7.65	15.57			0.00		0.00	3	0	0	0	0	0	1,191	22	0	0	0	0.00	0.00	1,169.13
127+00	12700.00	25.00	15.13			0.00		0.00	14	0	0	0	0	0	1,206	22	0	0	0	0.00	0.00	1,183.34
.27+25 .27+50	12725.00 12750.00	25.00 25.00	7.48 7.76			0.00		0.00 0.00	10 7	0	0 0	0	0 0	0	1,216 1,223	22 22	0 0	0	0 0	0.00 0.00	0.00 0.00	1,193.83 1,200.86
27+75	12775.00	25.00	8.00	0.00	0.00	0.00	0.00	0.00	7	0	0	0	0	0	1,230	22	0	0	0	0.00	0.00	1,208.1
8+00 8+25	12800.00 12825.00	25.00 25.00	8.10 8.12			0.00		0.00 0.00	7	0	0 0	0	0 0	0	1,238 1,245	22 22	0	0	0	0.00 0.00	0.00 0.00	1,215.6 1,223.1
28+50	12850.00	25.00	36.09			0.00		0.00	20	0	0	0	0	0	1,245	22	0	0	0	0.00	0.00	1,243.5
8+75	12875.00	25.00	45.55	0.00	0.00	0.00		0.00	38	0	0	0	0	0	1,304	22	0	0	0	0.00	0.00	1,281.3
29+00 29+25	12900.00 12925.00	25.00 25.00	27.30 19.51			0.00		0.00 0.00	34 22	0	3	0	0 0	0	1,337 1,359	26 29	0 0	0	0 0	0.00 0.00	0.00 0.00	1,311.8 1,330.2
29+50	12950.00	25.00	34.76			0.00		0.00	25	0	0	ő	0	0	1,384	29	0	0	Ö	0.00	0.00	1,355.2
29+75	12975.00	25.00	22.93			0.00		0.00	27	0	0	0	0	0	1,411	29	0	0	0	0.00	0.00	1,381.9
30+00 30+25	13000.00 13025.00	25.00 25.00	17.85 17.51			0.00		0.00 0.00	19 16	υ 0	0 0	0	0 0	0	1,430 1,446	29 29	0 0	0	0 0	0.00 0.00	0.00 0.00	1,400.8 1,417.1
30+50	13050.00	25.00	20.59	0.00	0.00	0.00	0.00	0.00	18	0	0	0	0	0	1,464	29	0	0	0	0.00	0.00	1,434.8
30+75	13075.00	25.00	20.73			0.00		0.00	19 16	0	0	0	0	0	1,483	29 30	0 0	0	0	0.00	0.00	1,453.9
31+00 31+25	13100.00 13125.00	25.00 25.00	13.05 36.93	0.00 0.00		0.00		0.00 0.00	16 23	0	1	0	0 0	0	1,499 1,522	30 31	0	0	0 0	0.00 0.00	0.00 0.00	1,468.5 1,490.7
31+50	13150.00	25.00	27.60	0.00	0.00	0.00	0.00	0.00	30	0	Ō	0	0	0	1,552	31	0	0	0	0.00	0.00	1,520.5
31+75	13175.00	25.00 25.00	25.45 17.82			0.00		0.00 0.00	25 20	0	0 0	0	0	0	1,576 1,596	31 31	0 0	0	0 0	0.00 0.00	0.00 0.00	1,545.1 1,565.1
132+00 2+10.36	13200.00 13210.36	10.36	17.82			0.00		0.00	6	0	0	0	0	0	1,602	31	0	0	0	0.00	0.00	1,570.99
2+13.07	13213.07	2.71	0.00	0.00		0.00		0.00	1	0	0	0	0	0	1,603	31	0	0	0	0.00	0.00	1,571.61

9

TOTAL 1,603 0 25 0 0 0

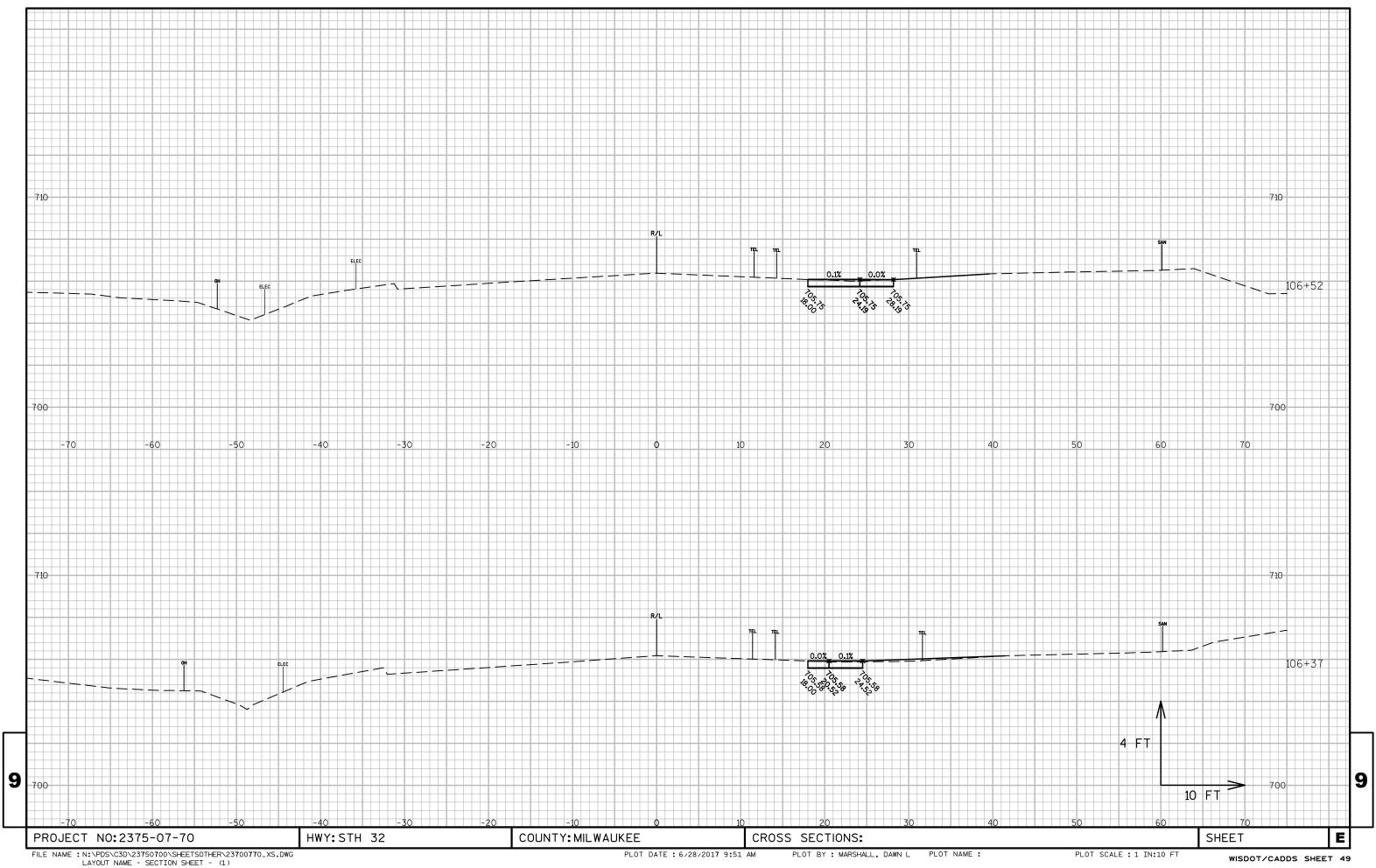
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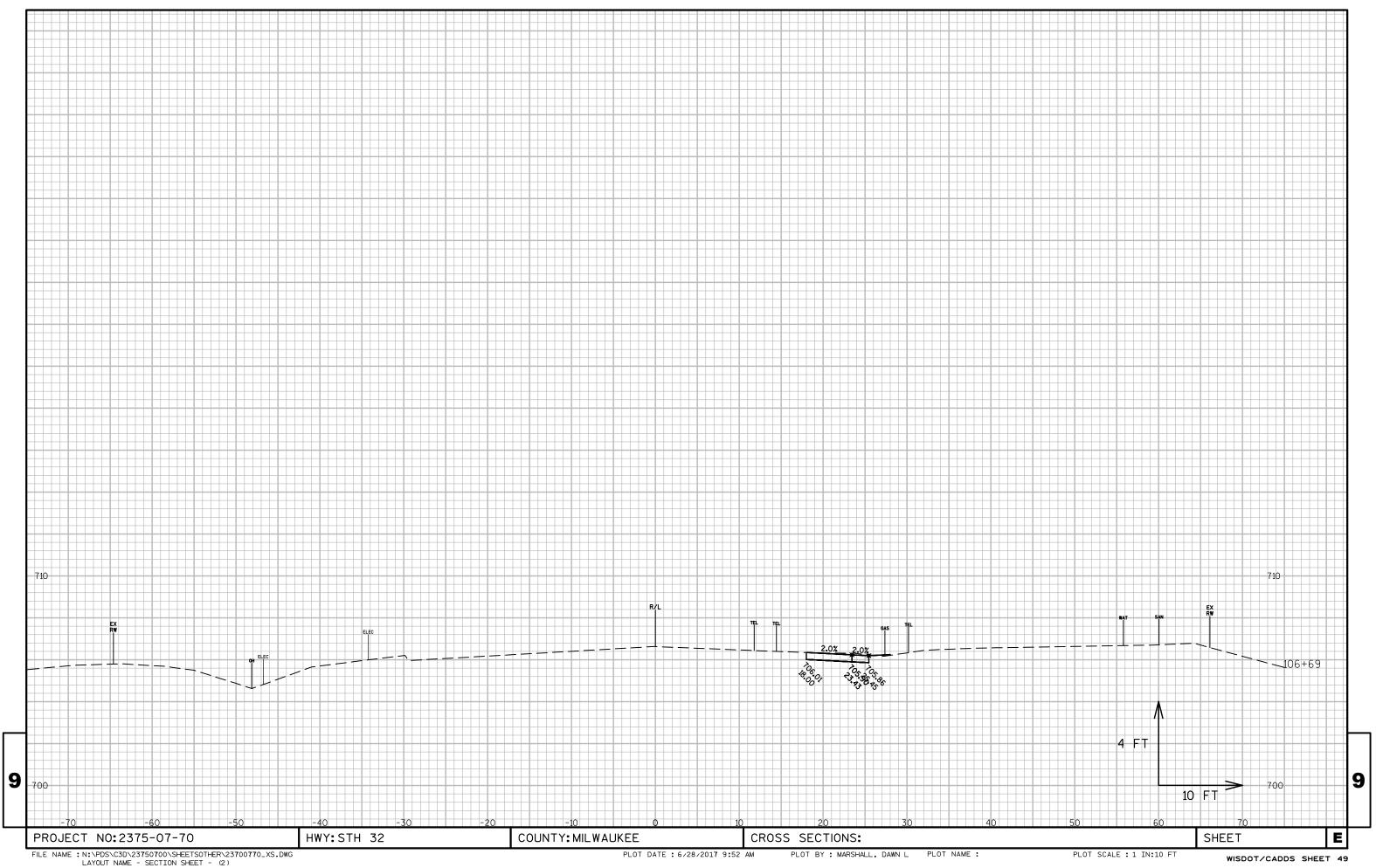
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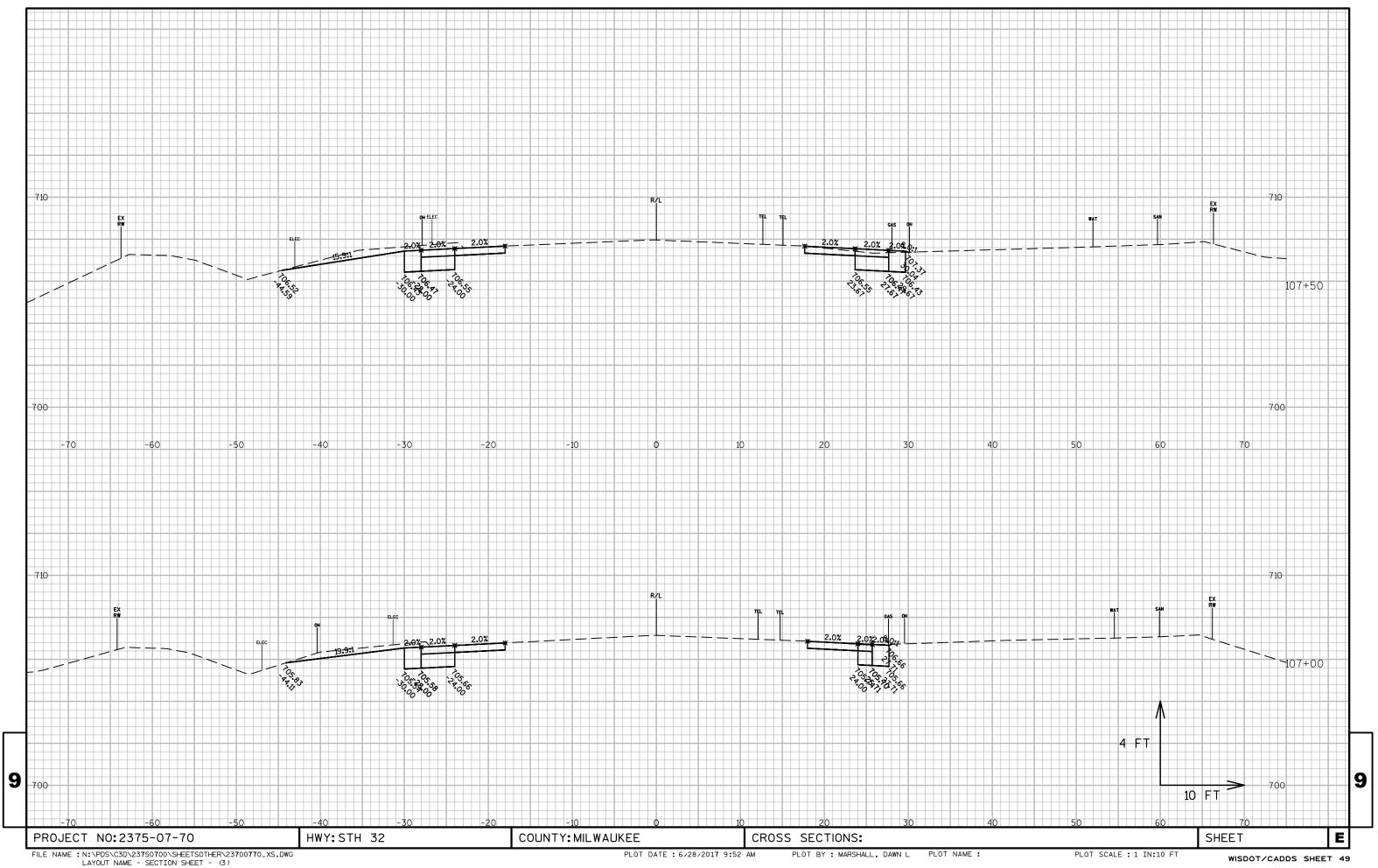
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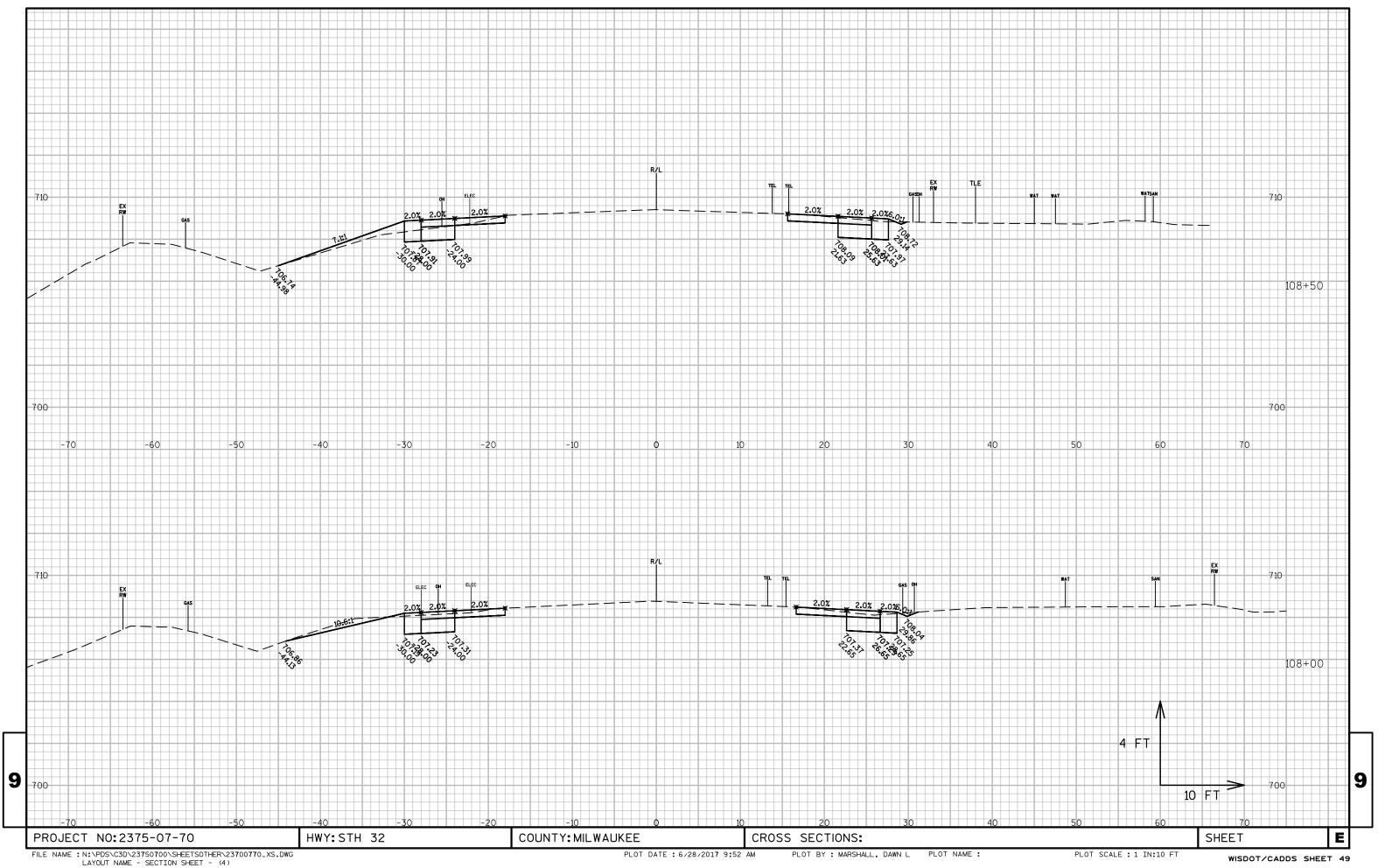
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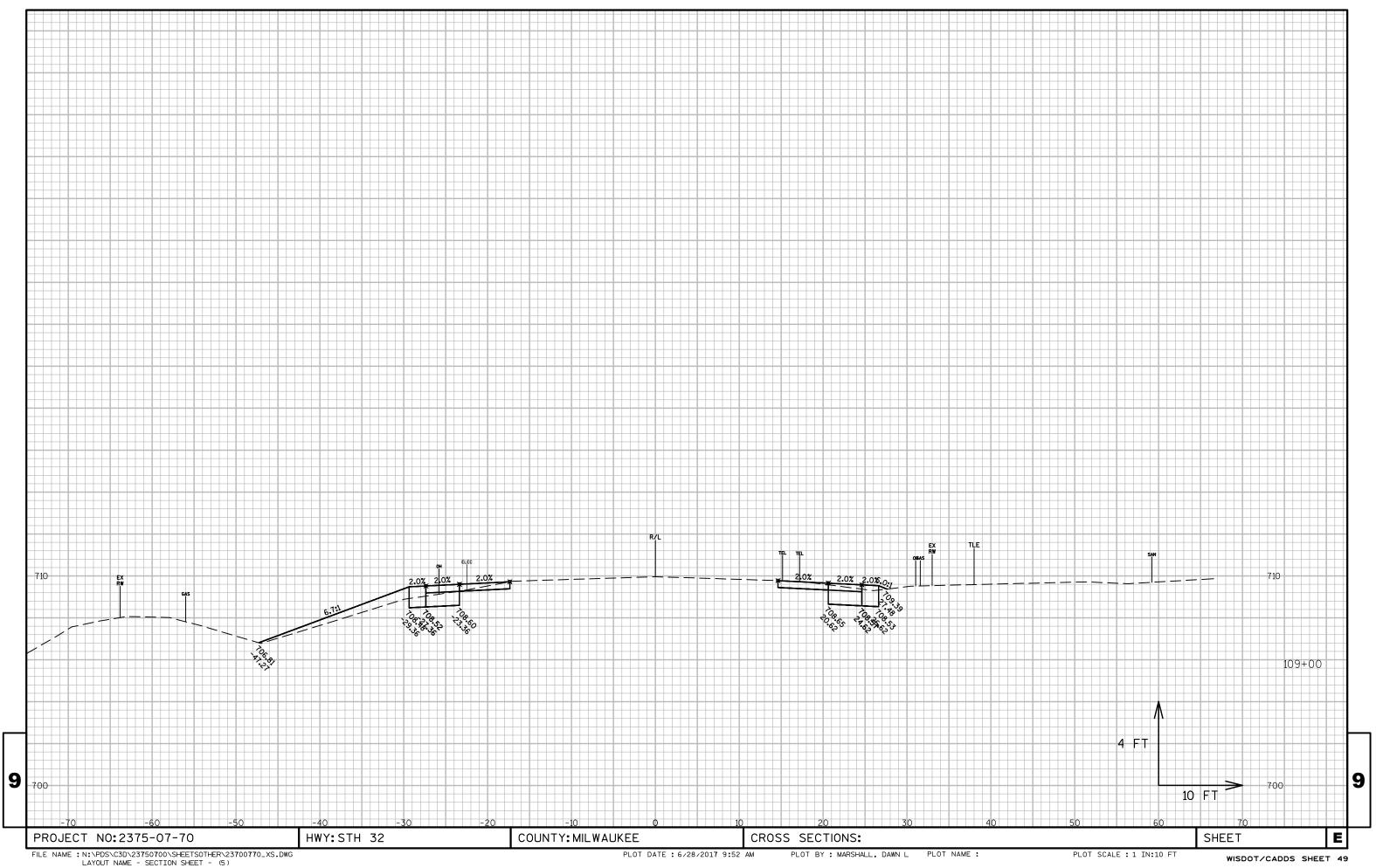
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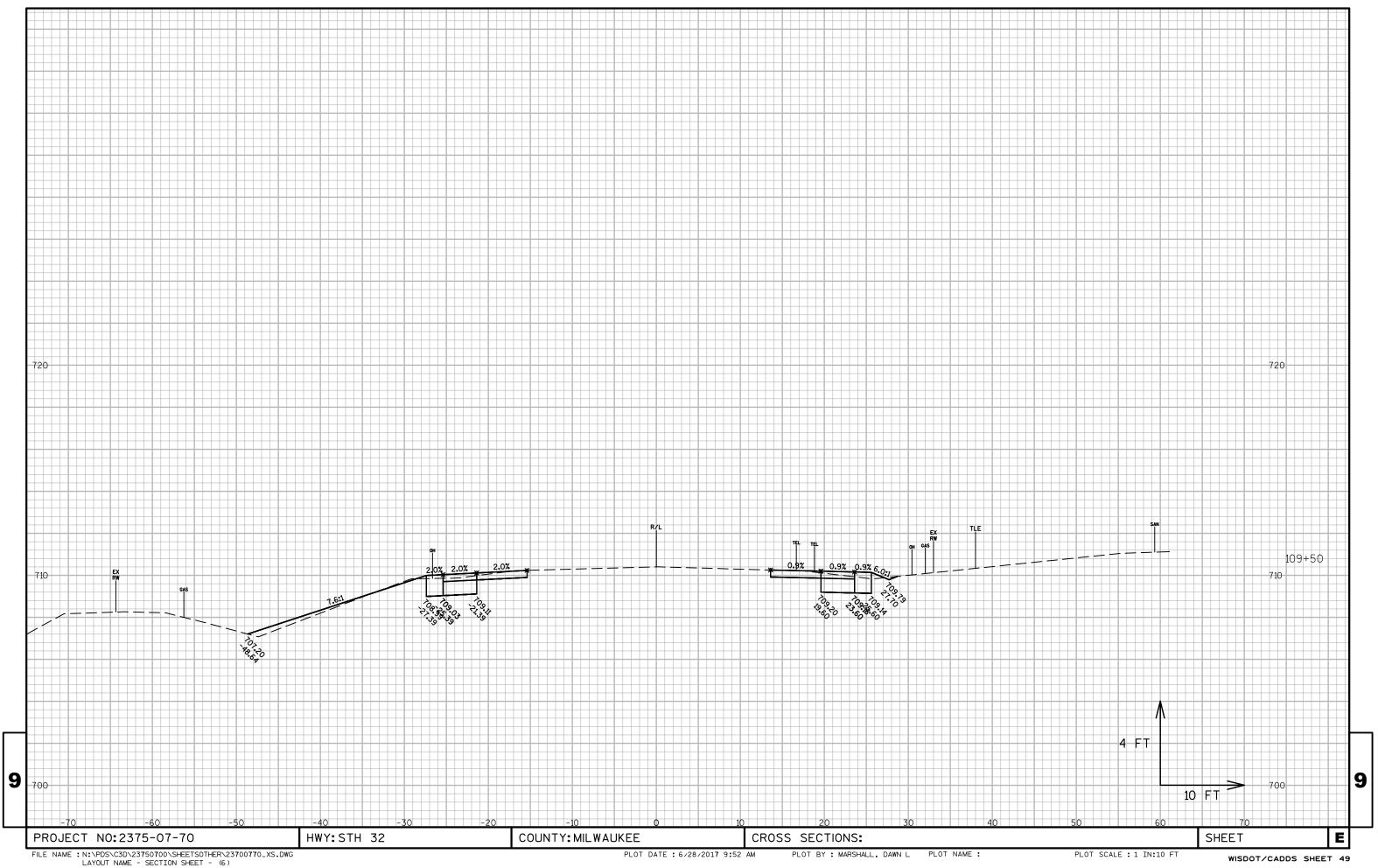


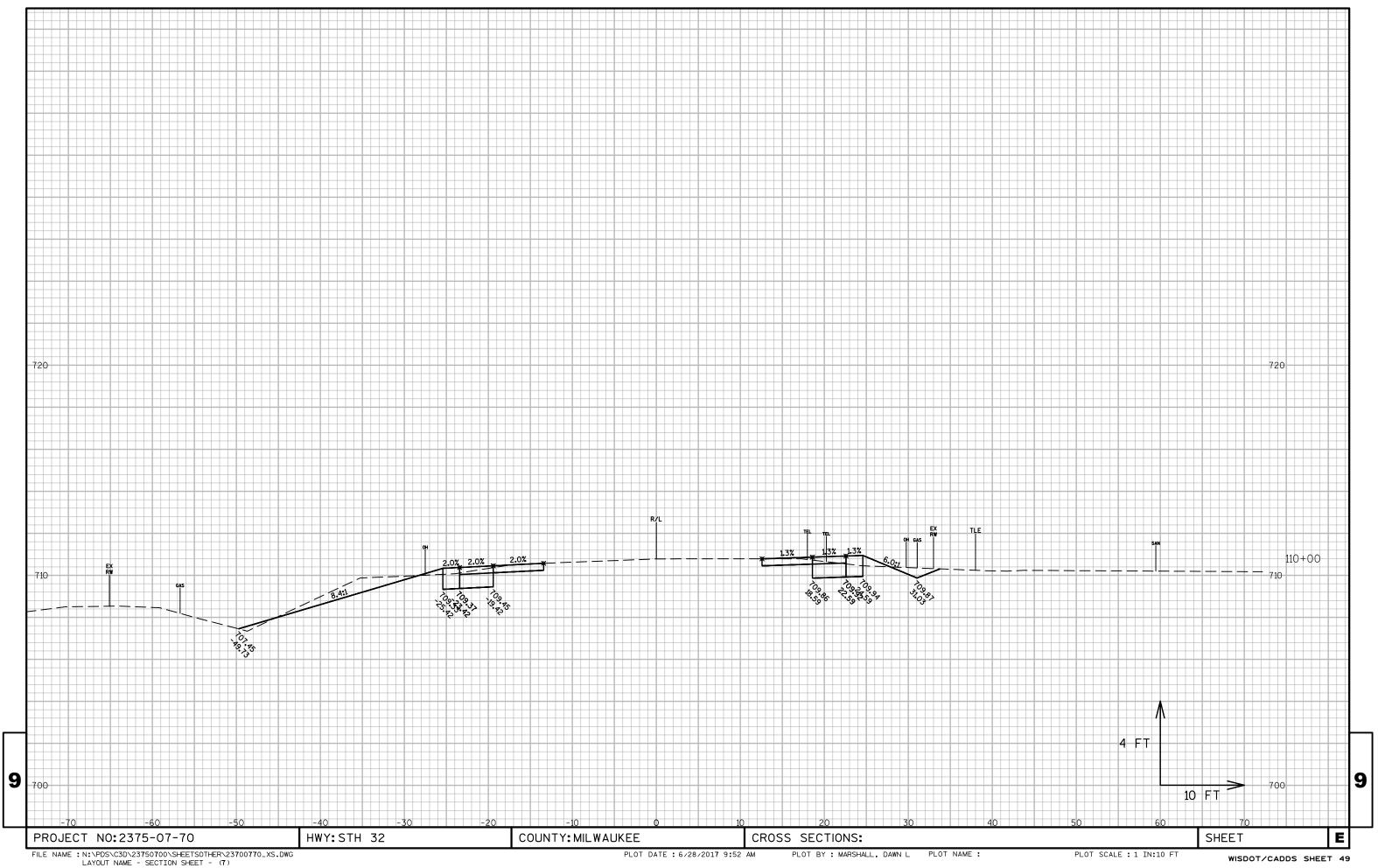


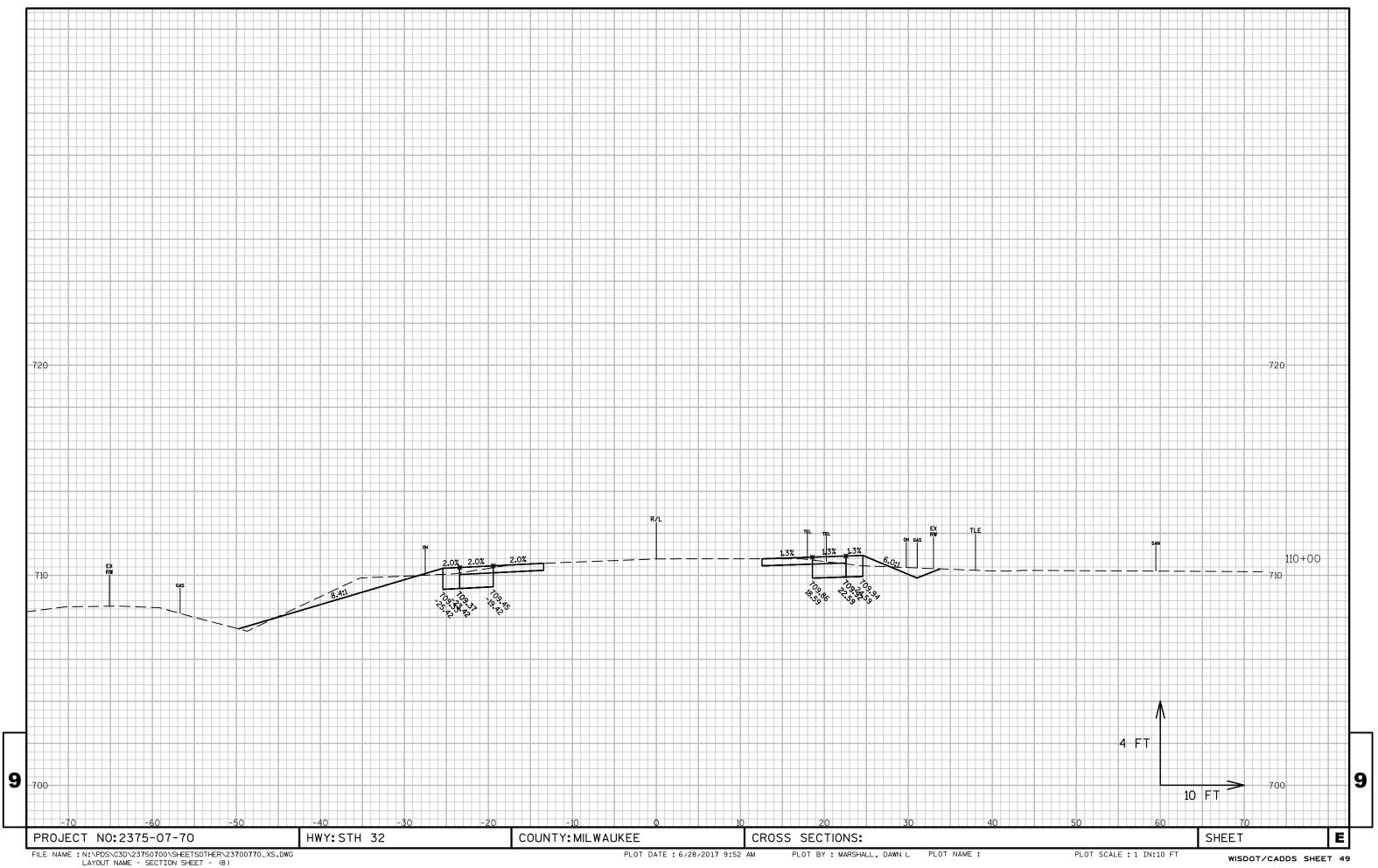


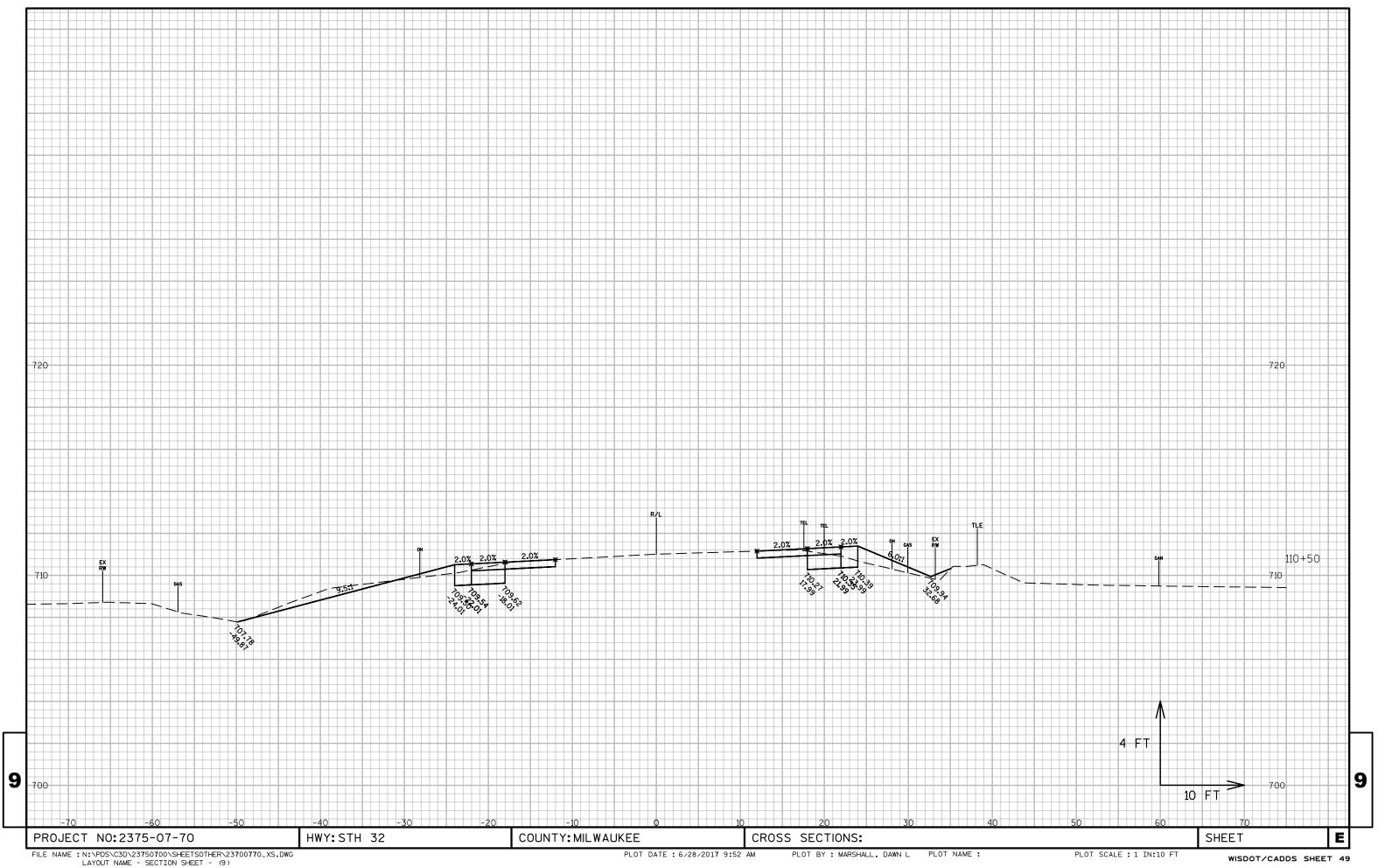


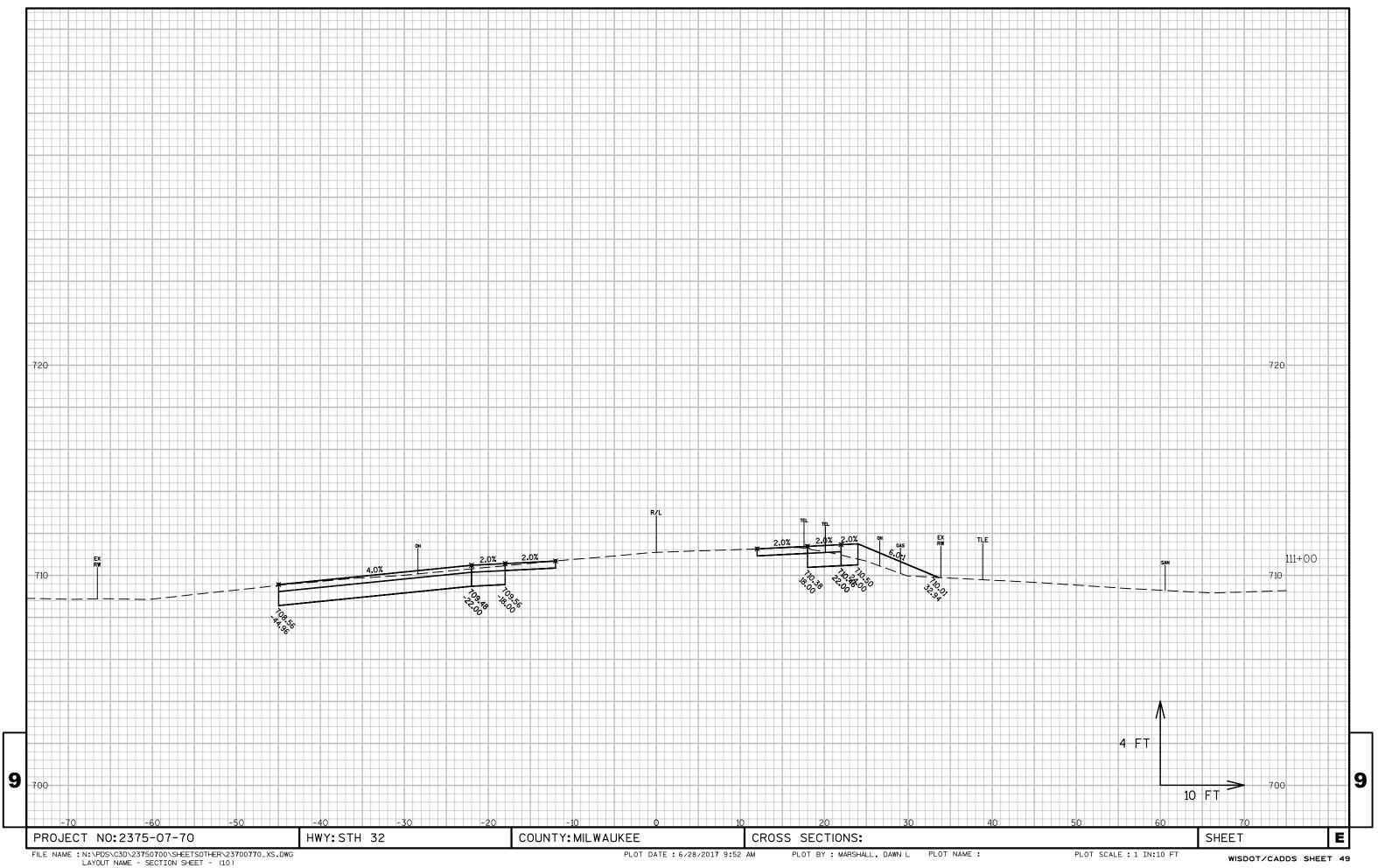


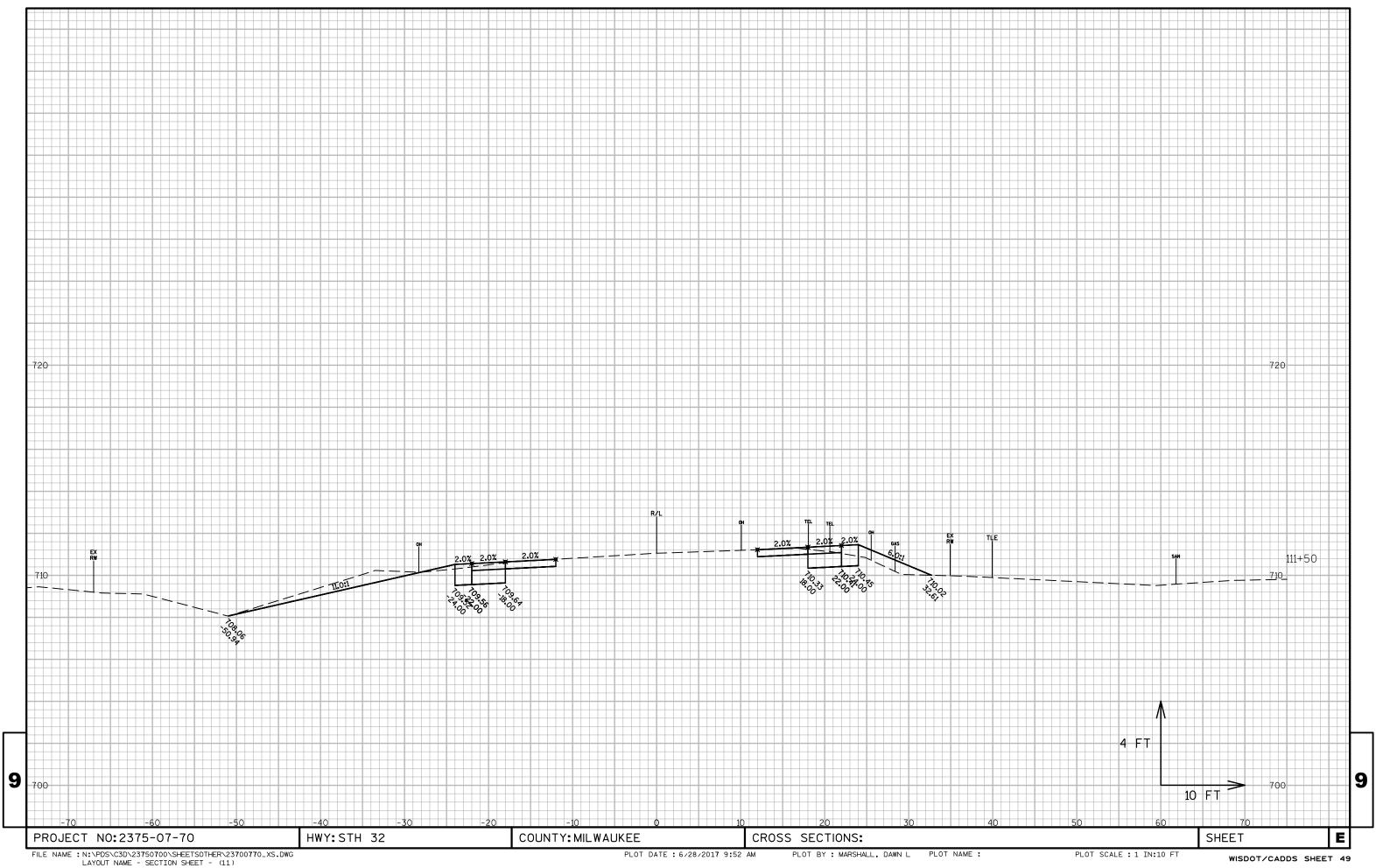


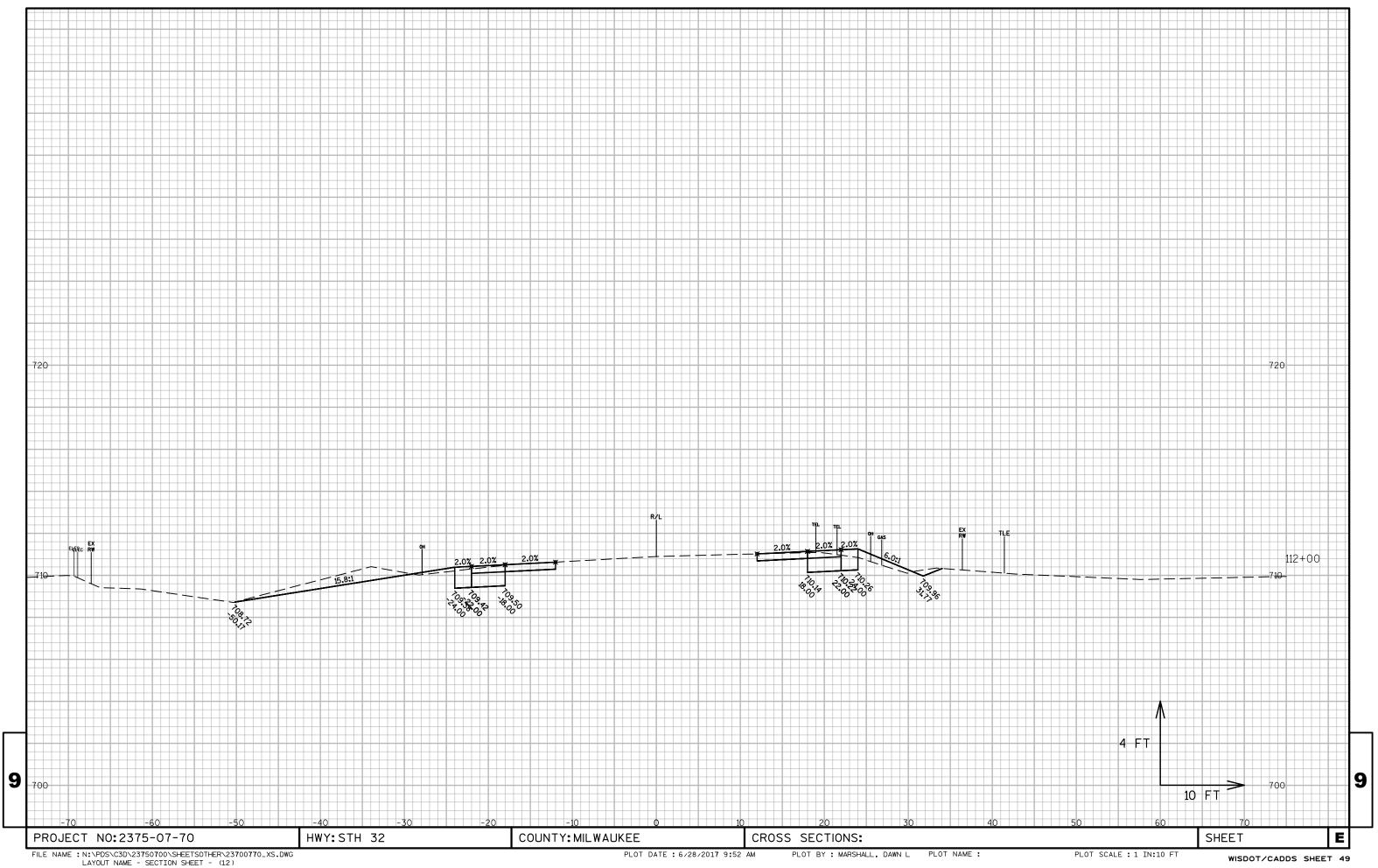


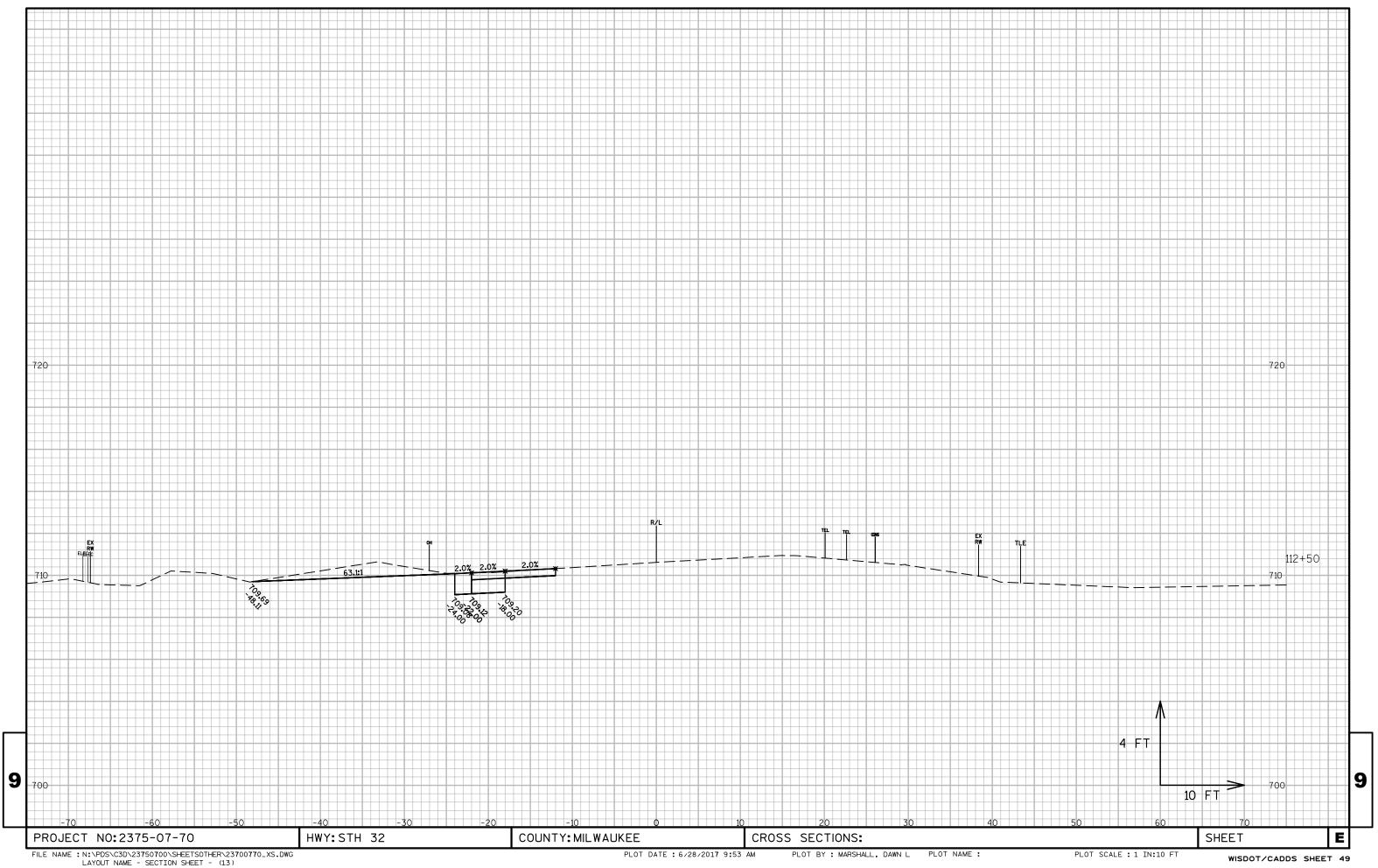


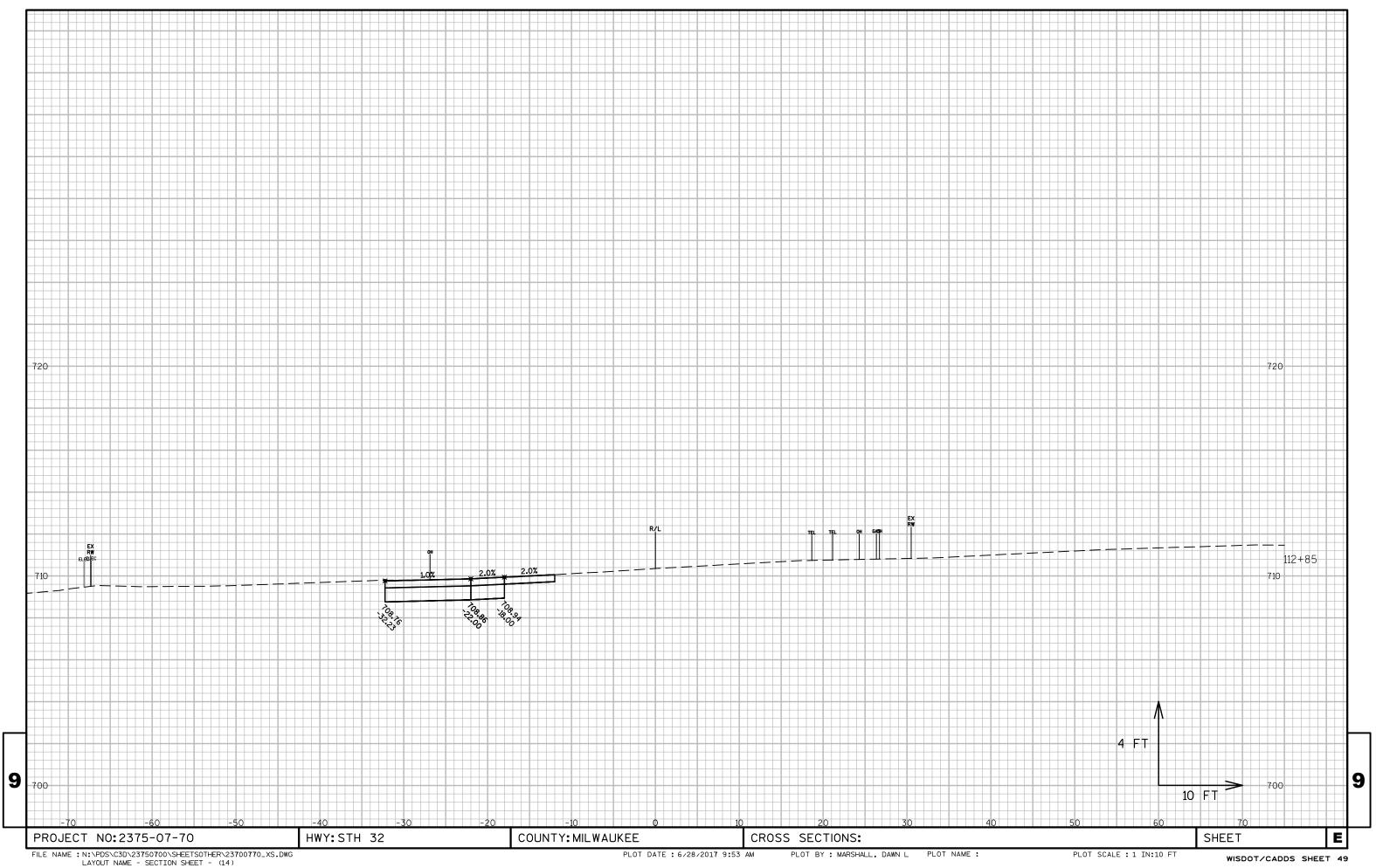


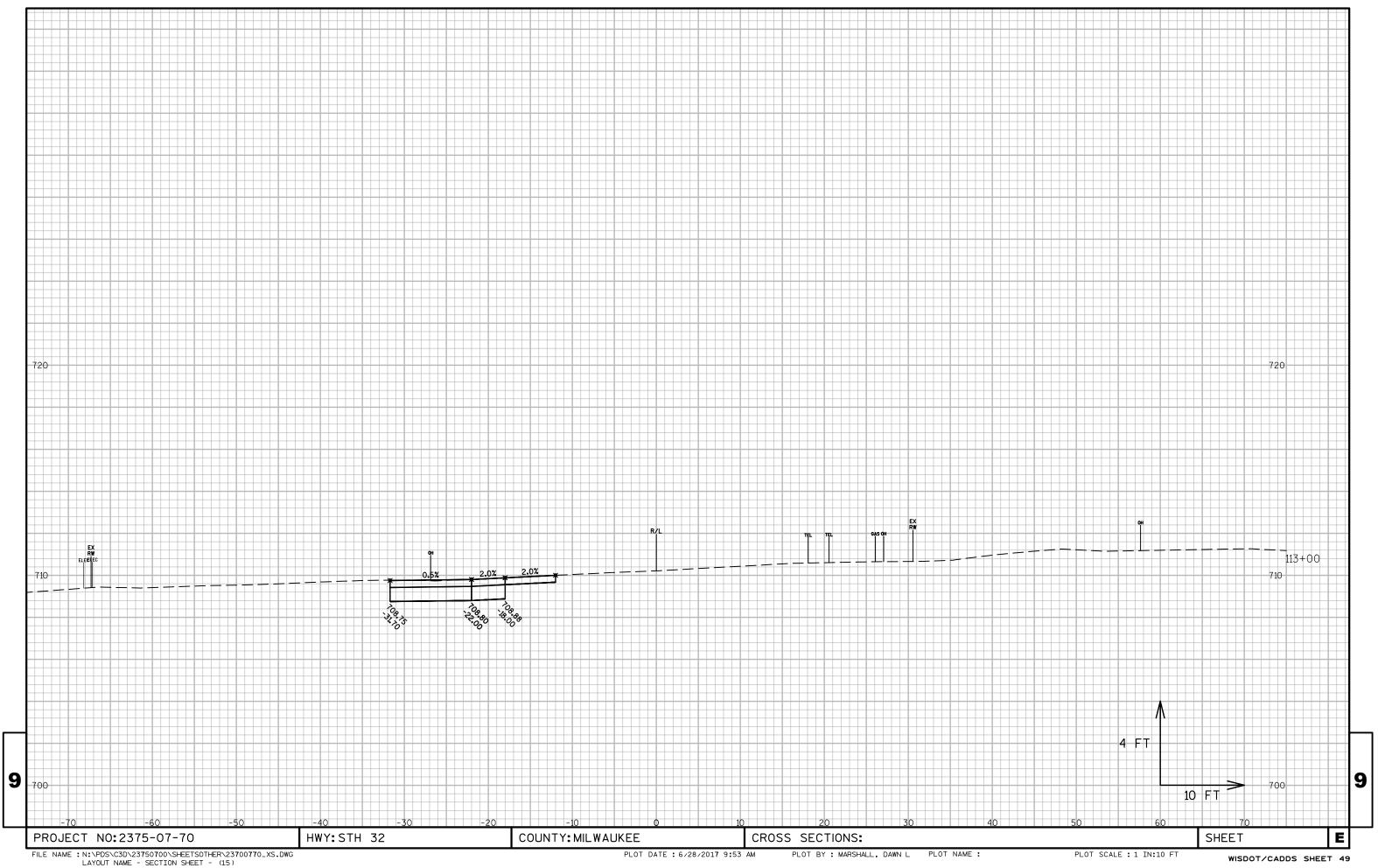


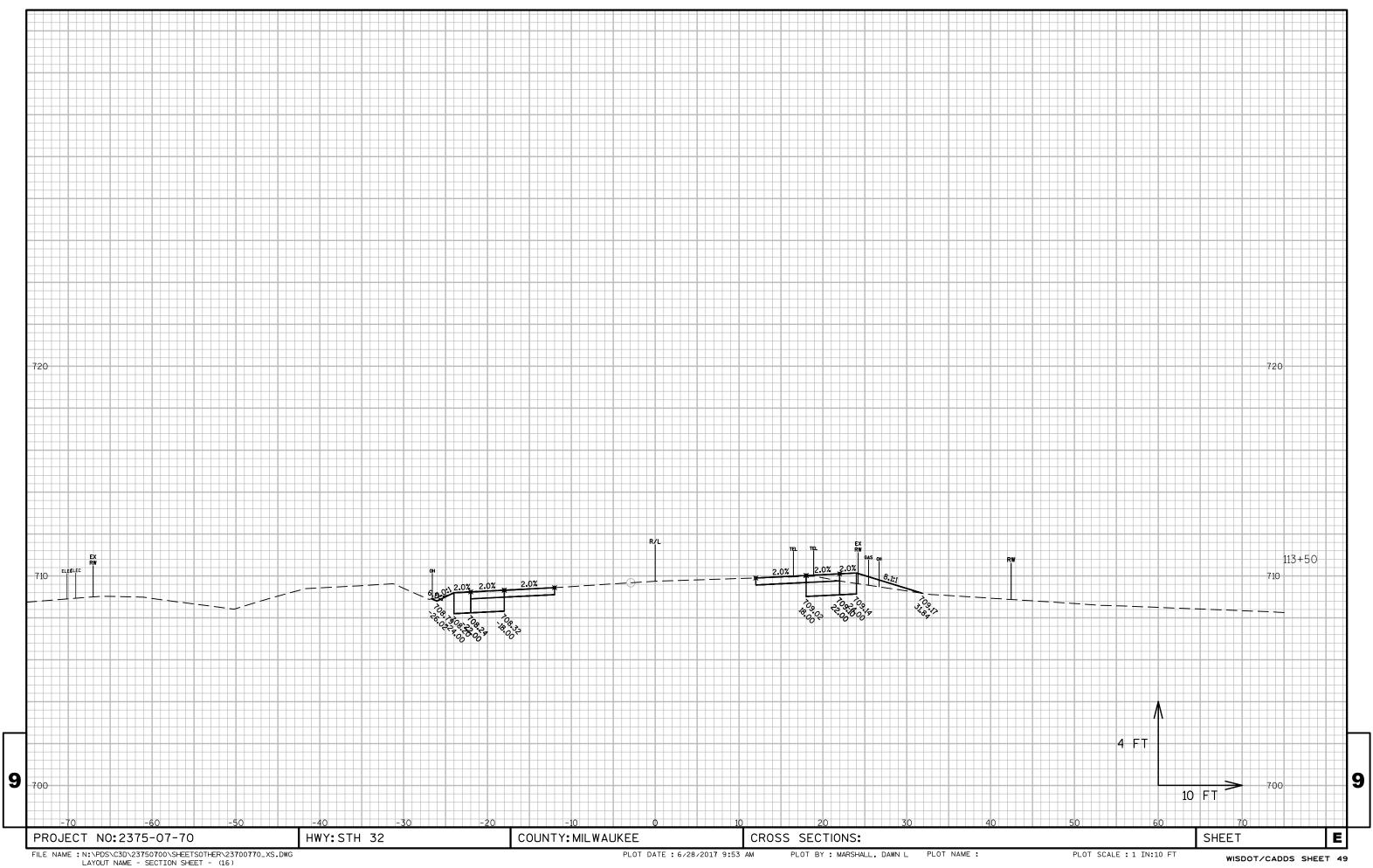


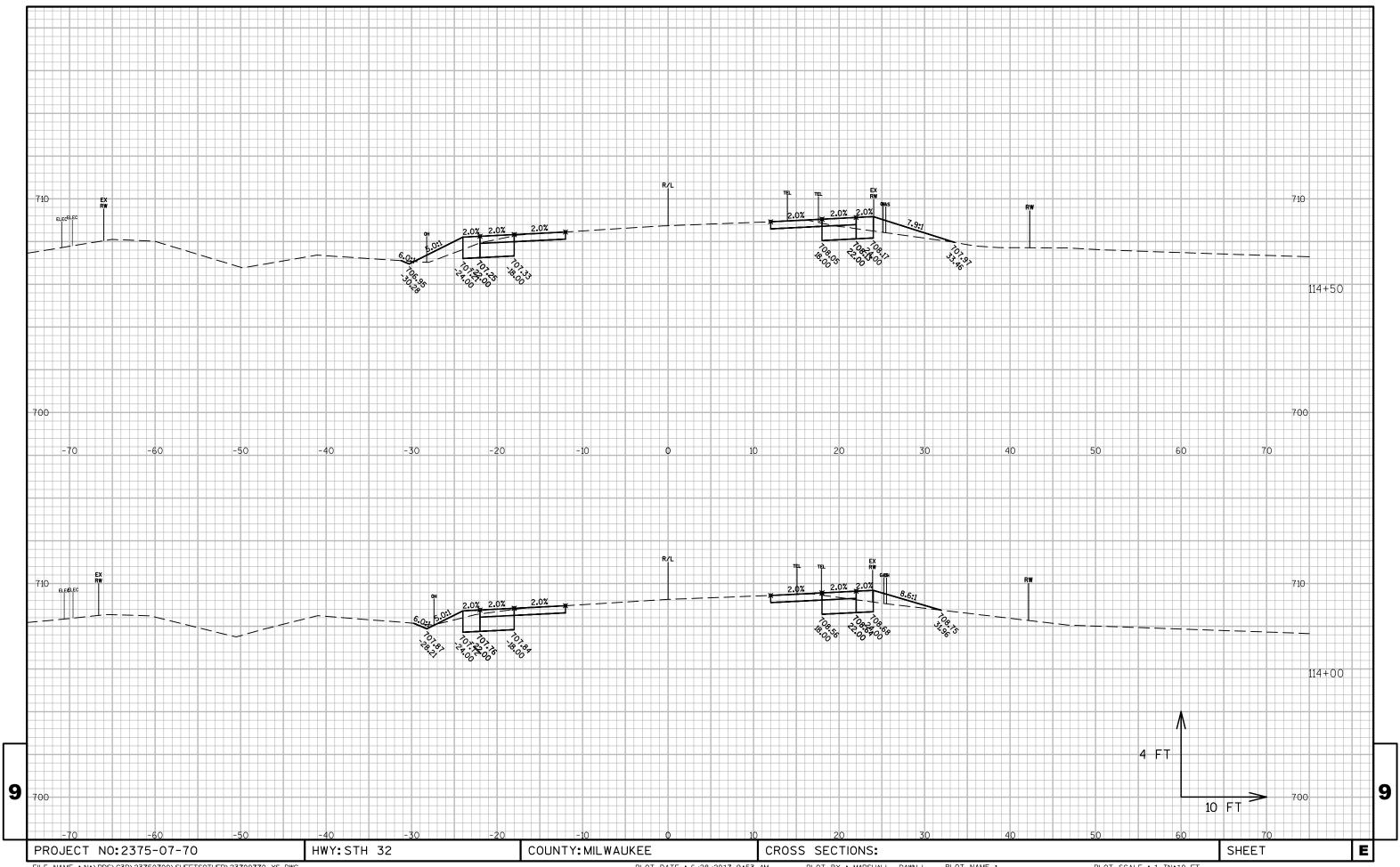


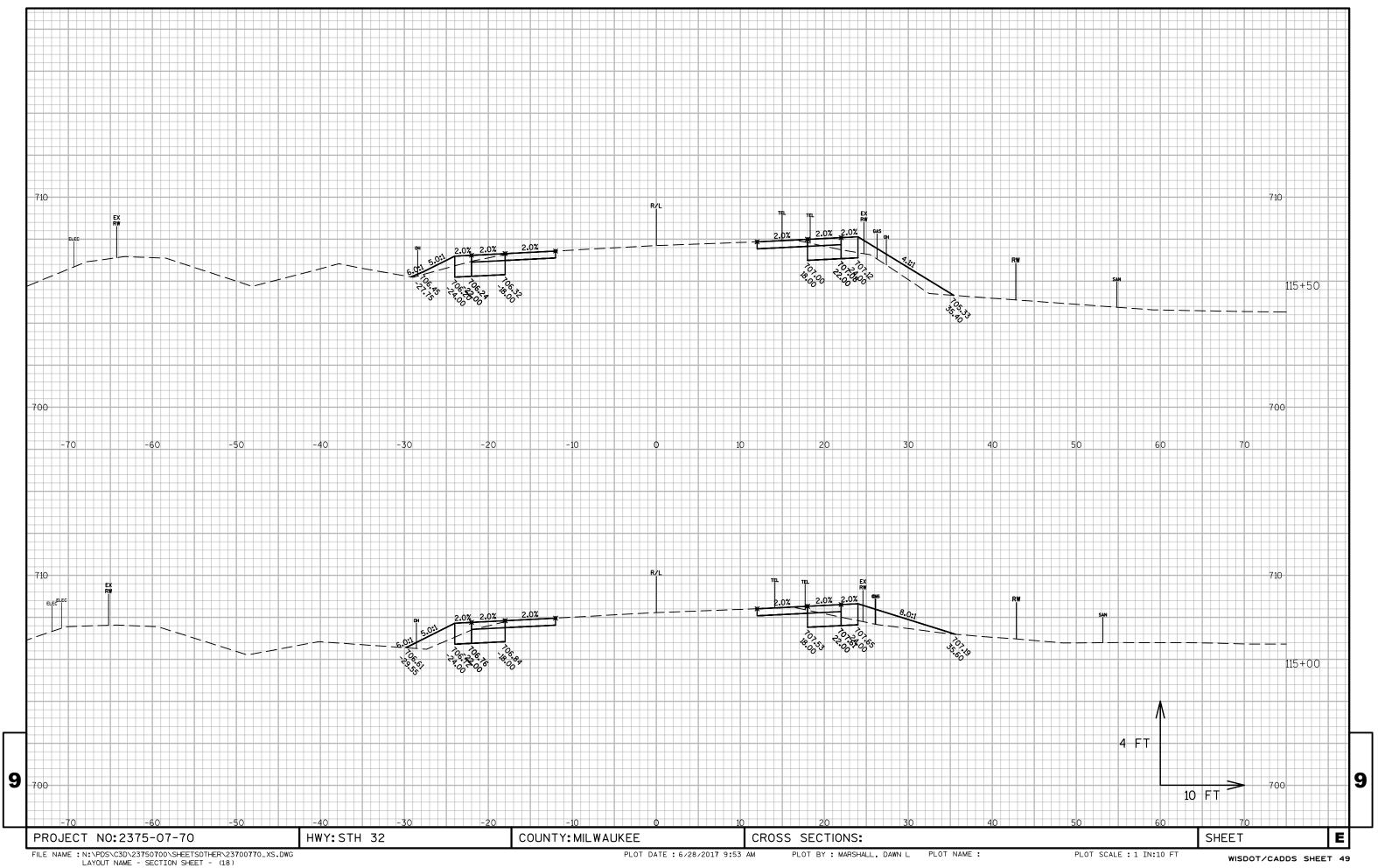


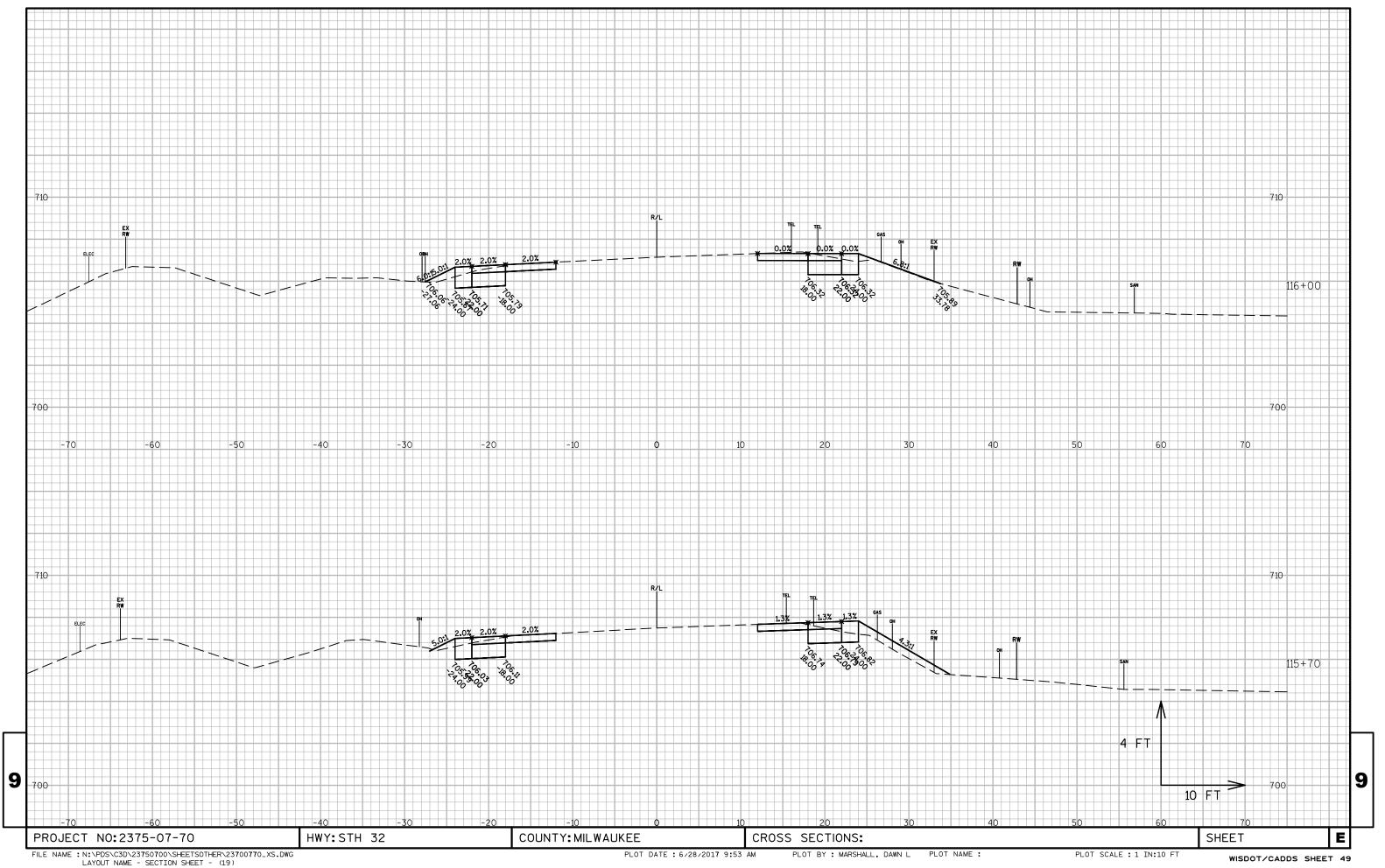


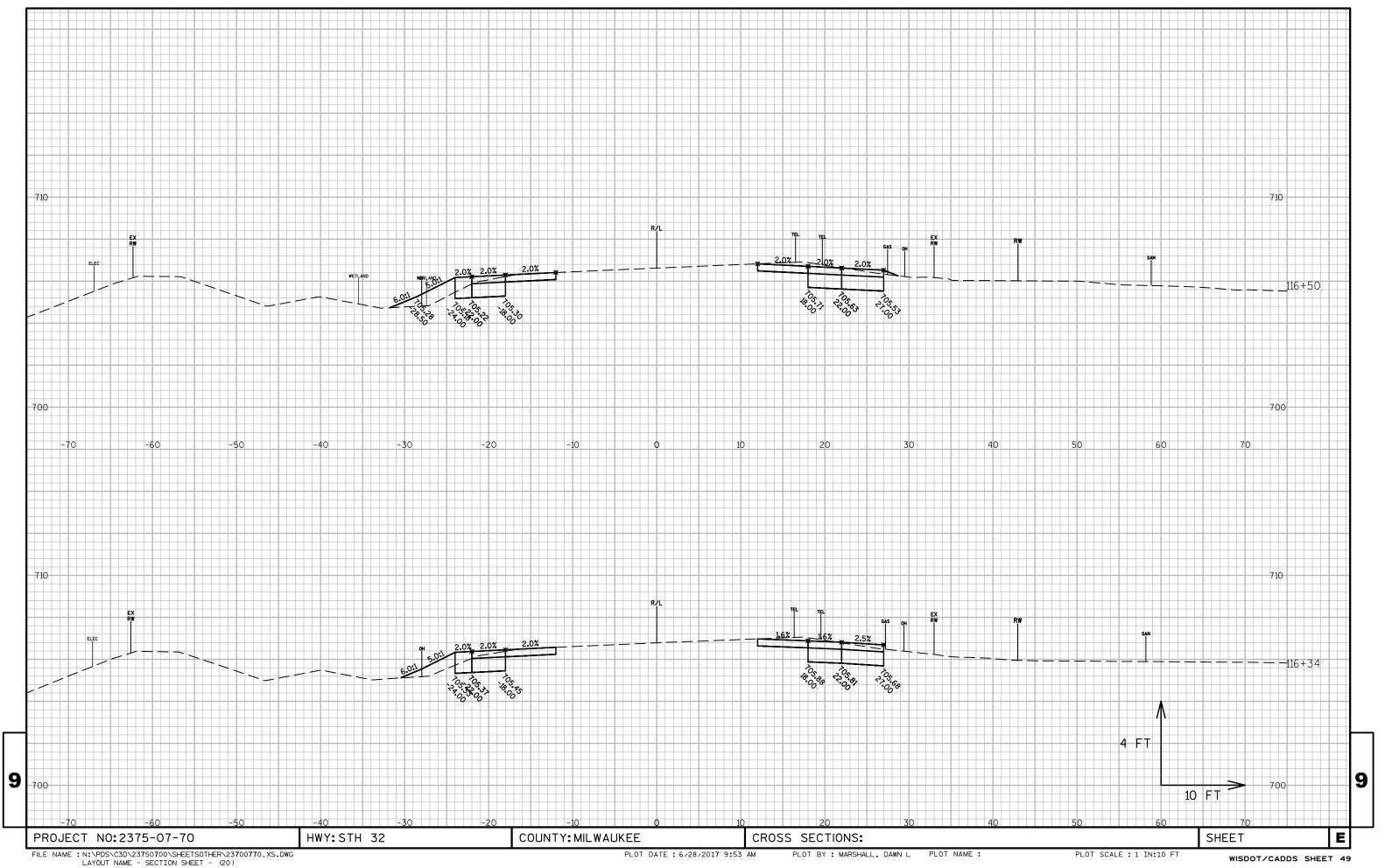


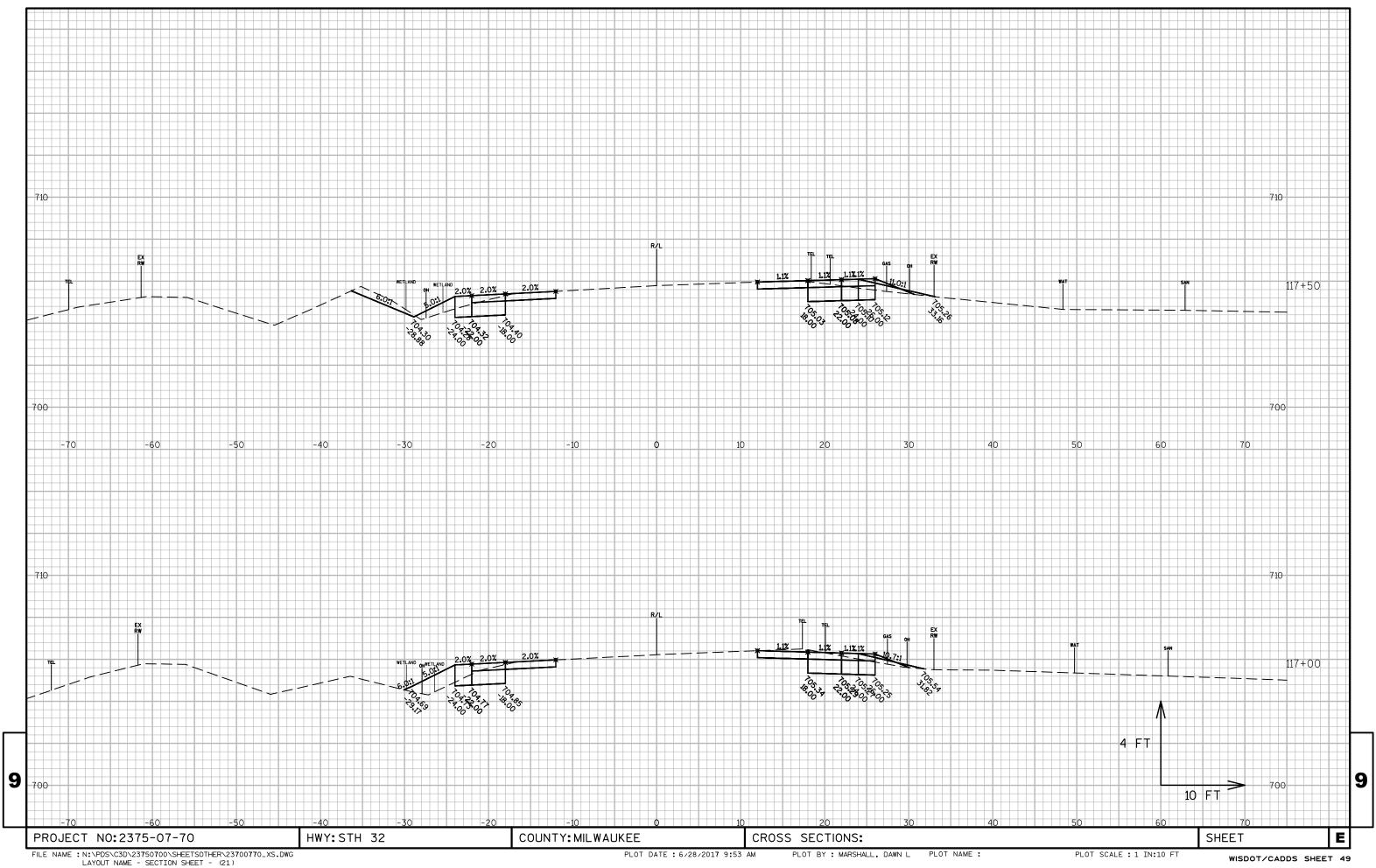


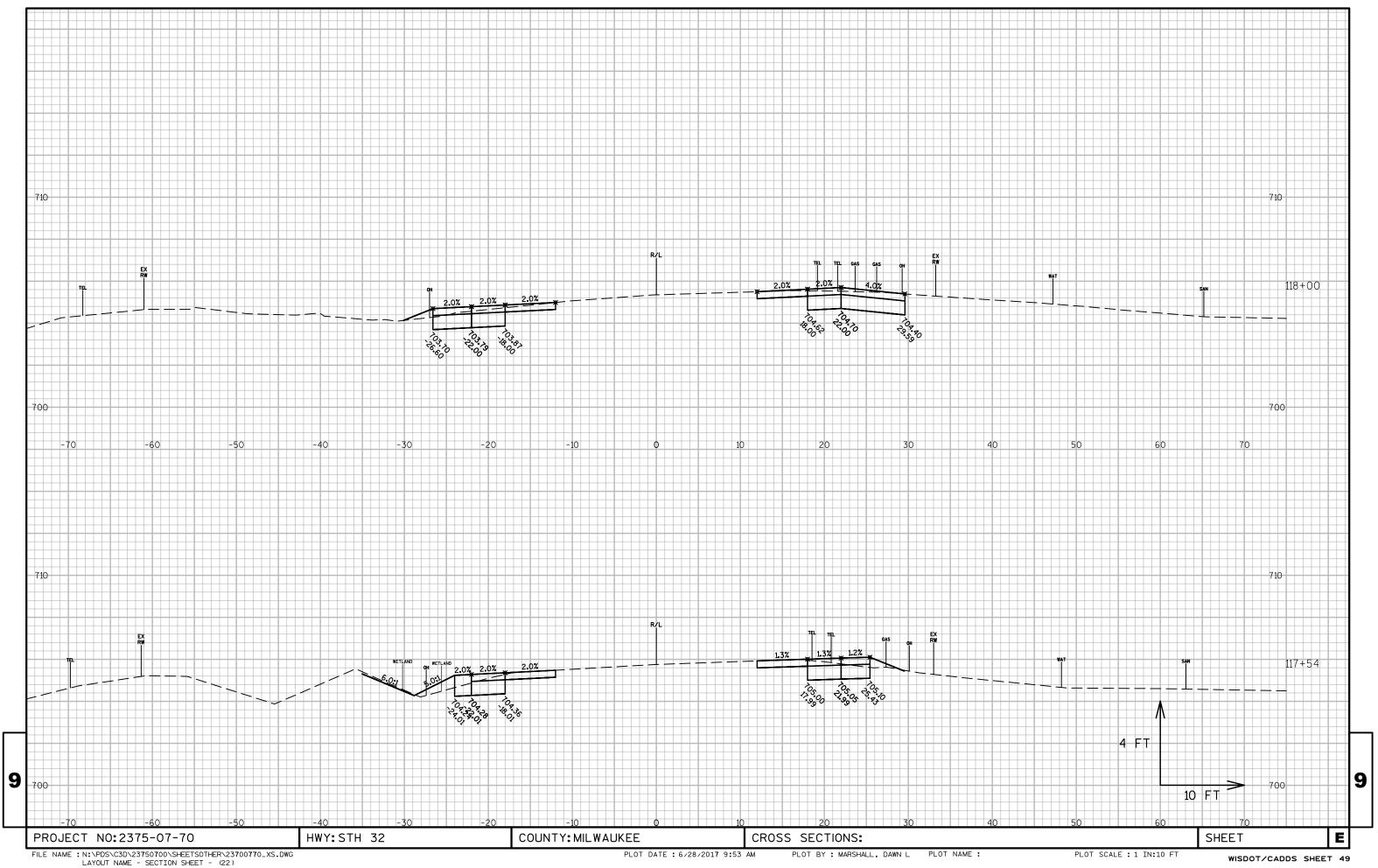


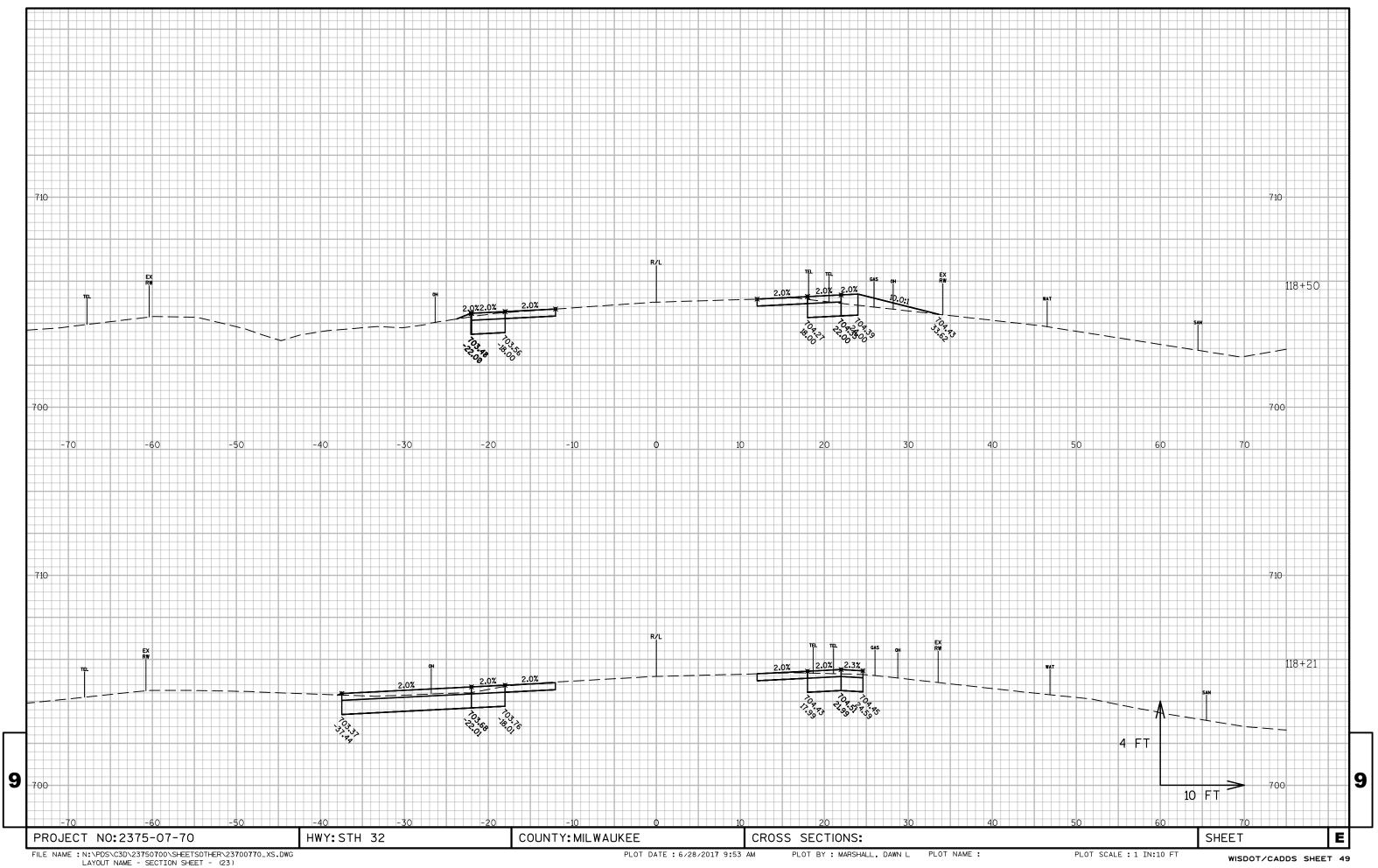


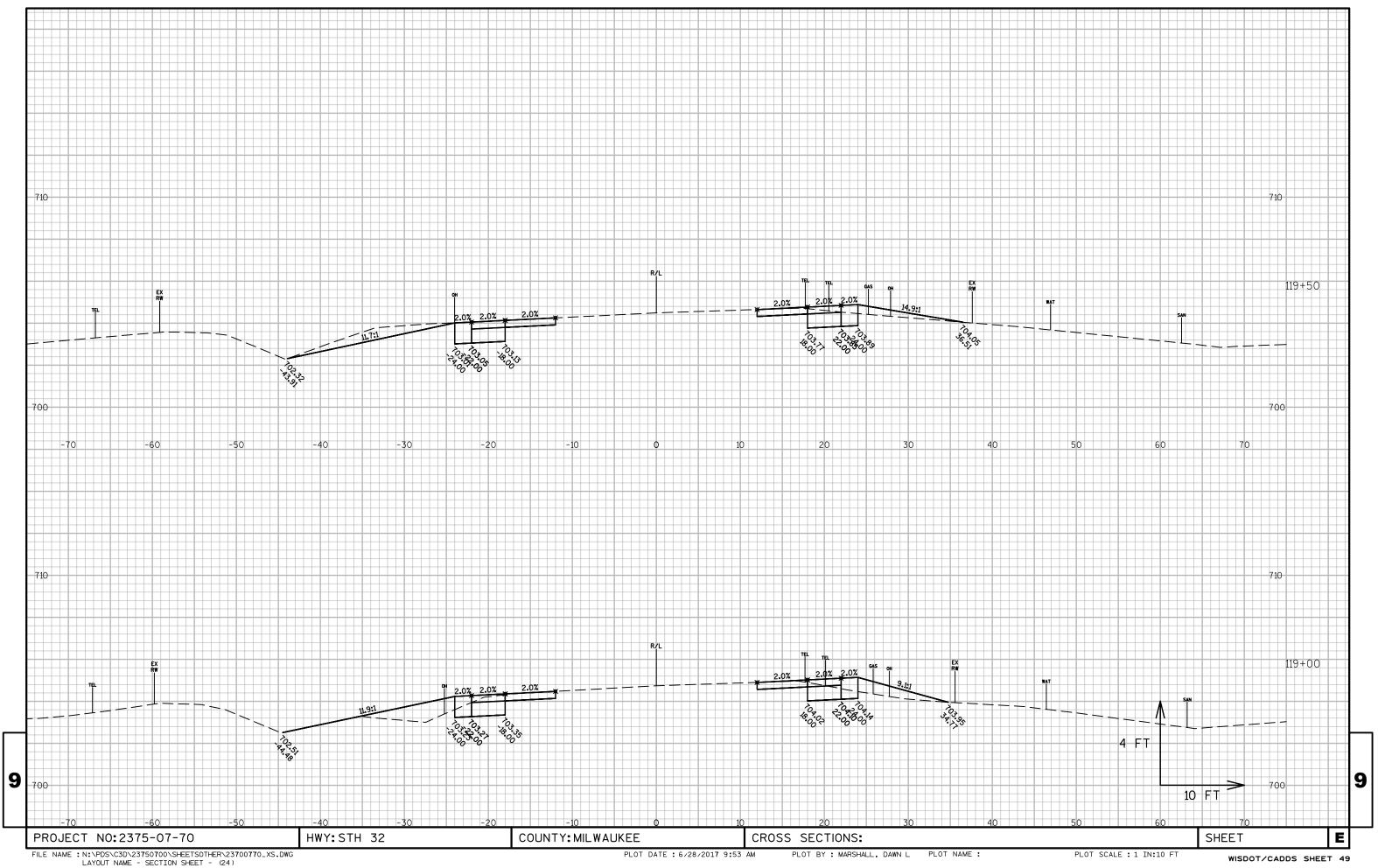


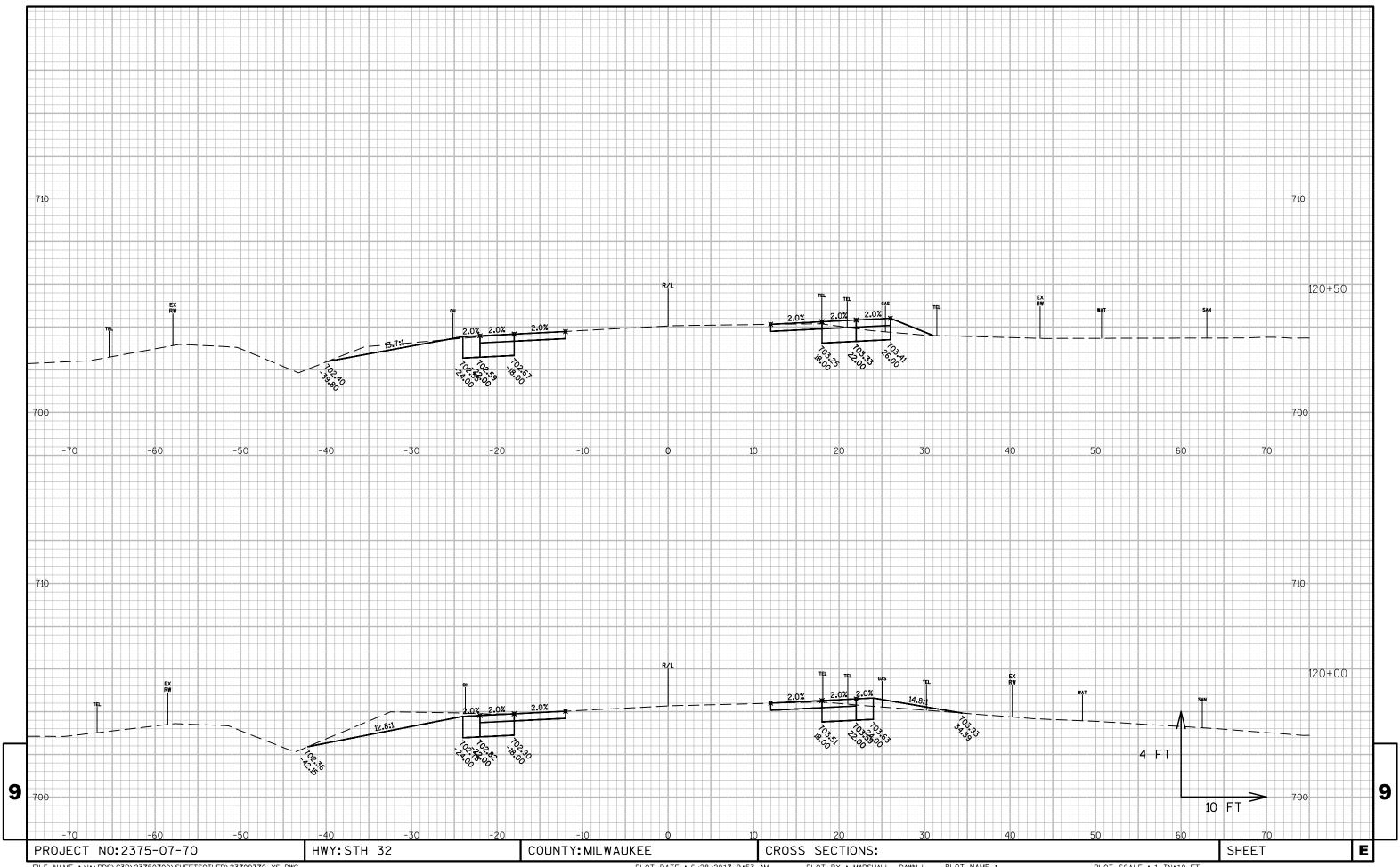


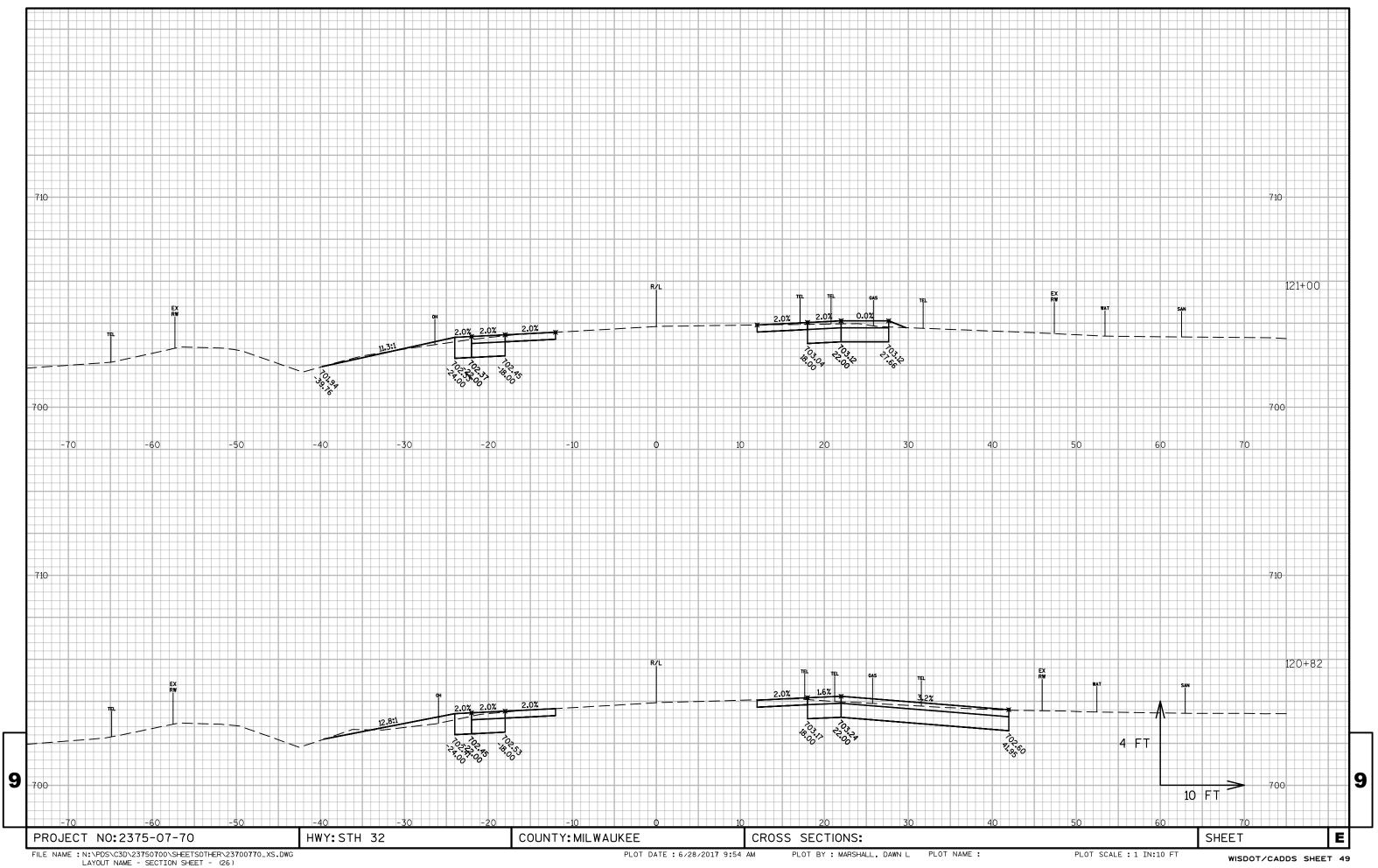


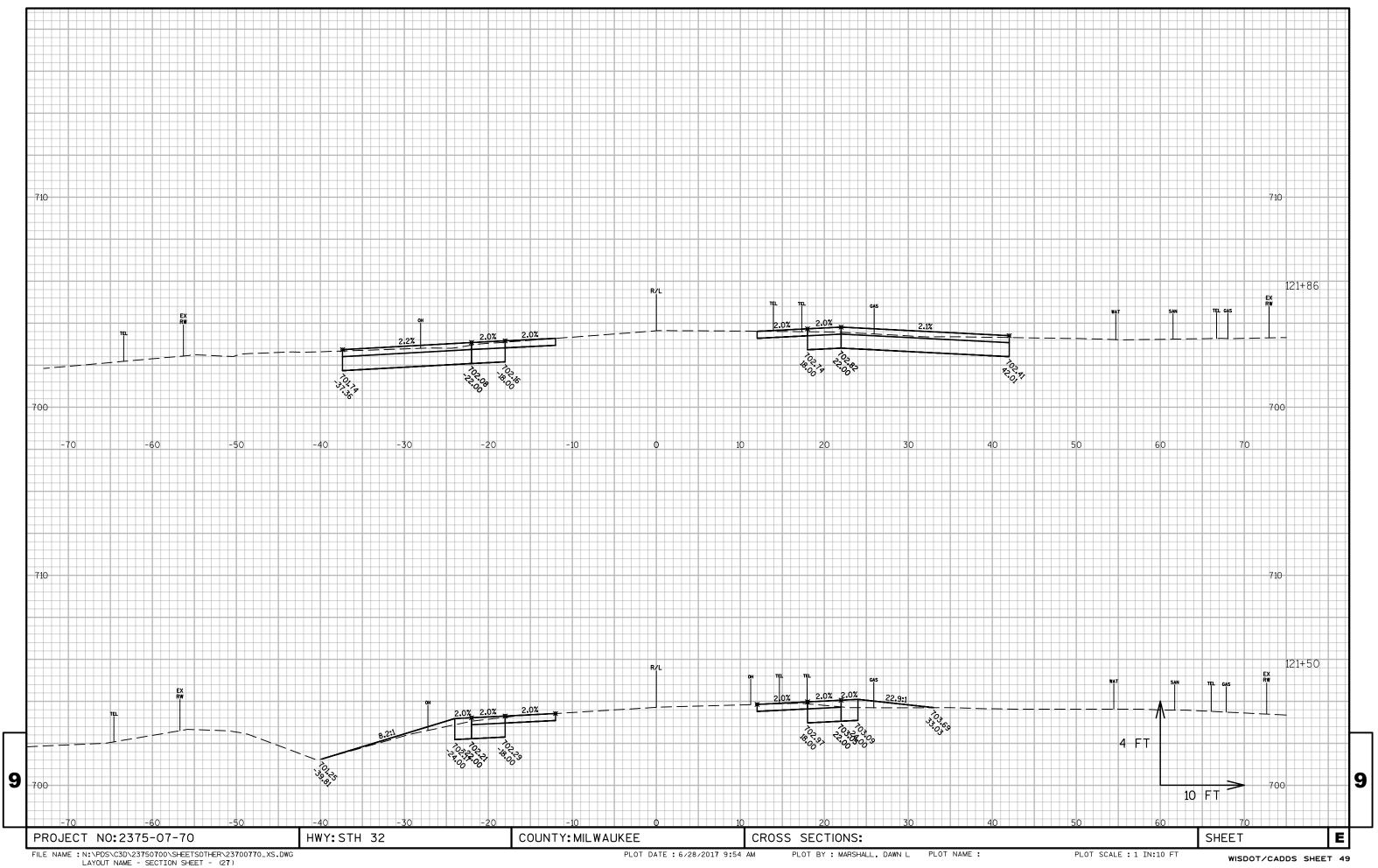


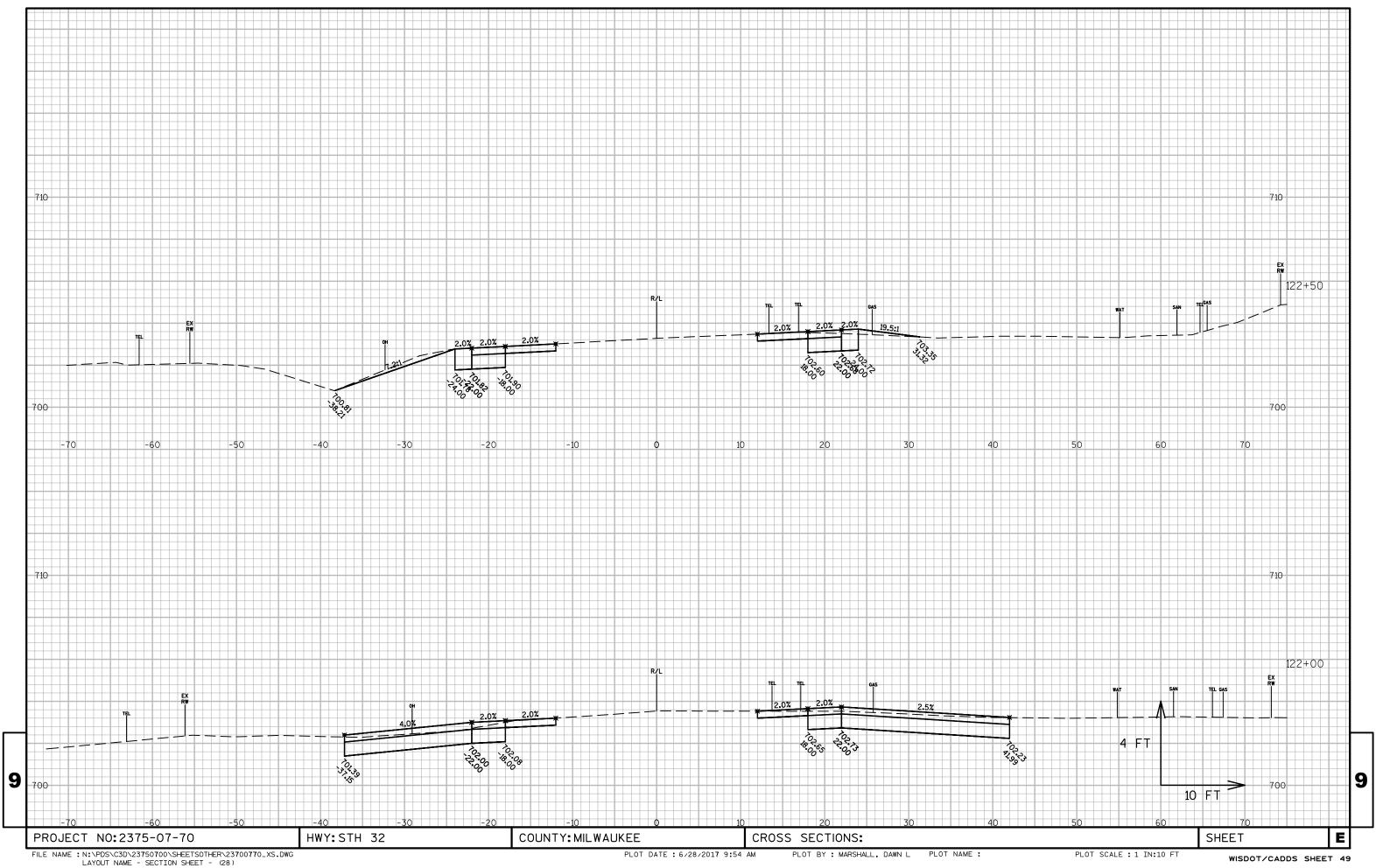


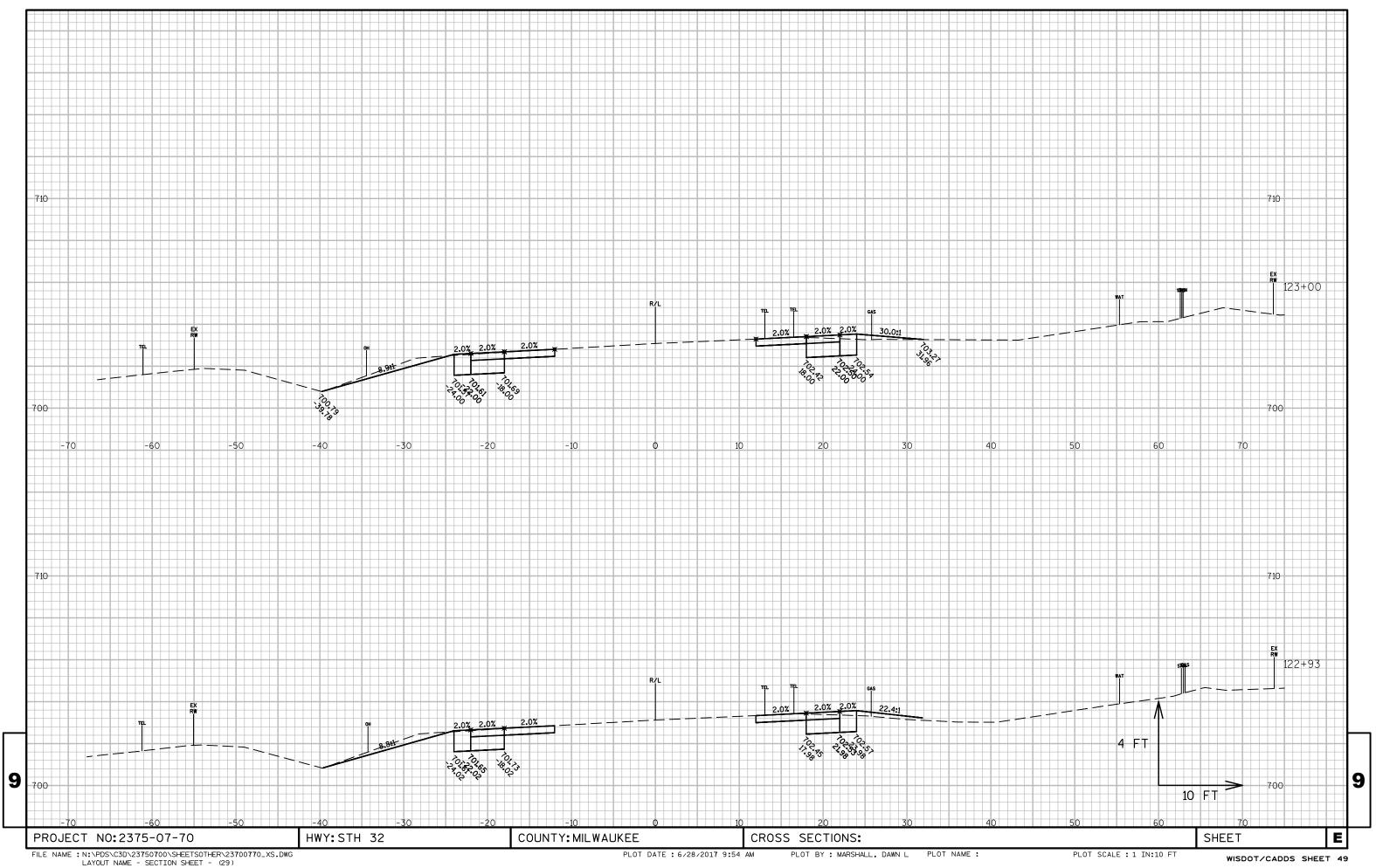


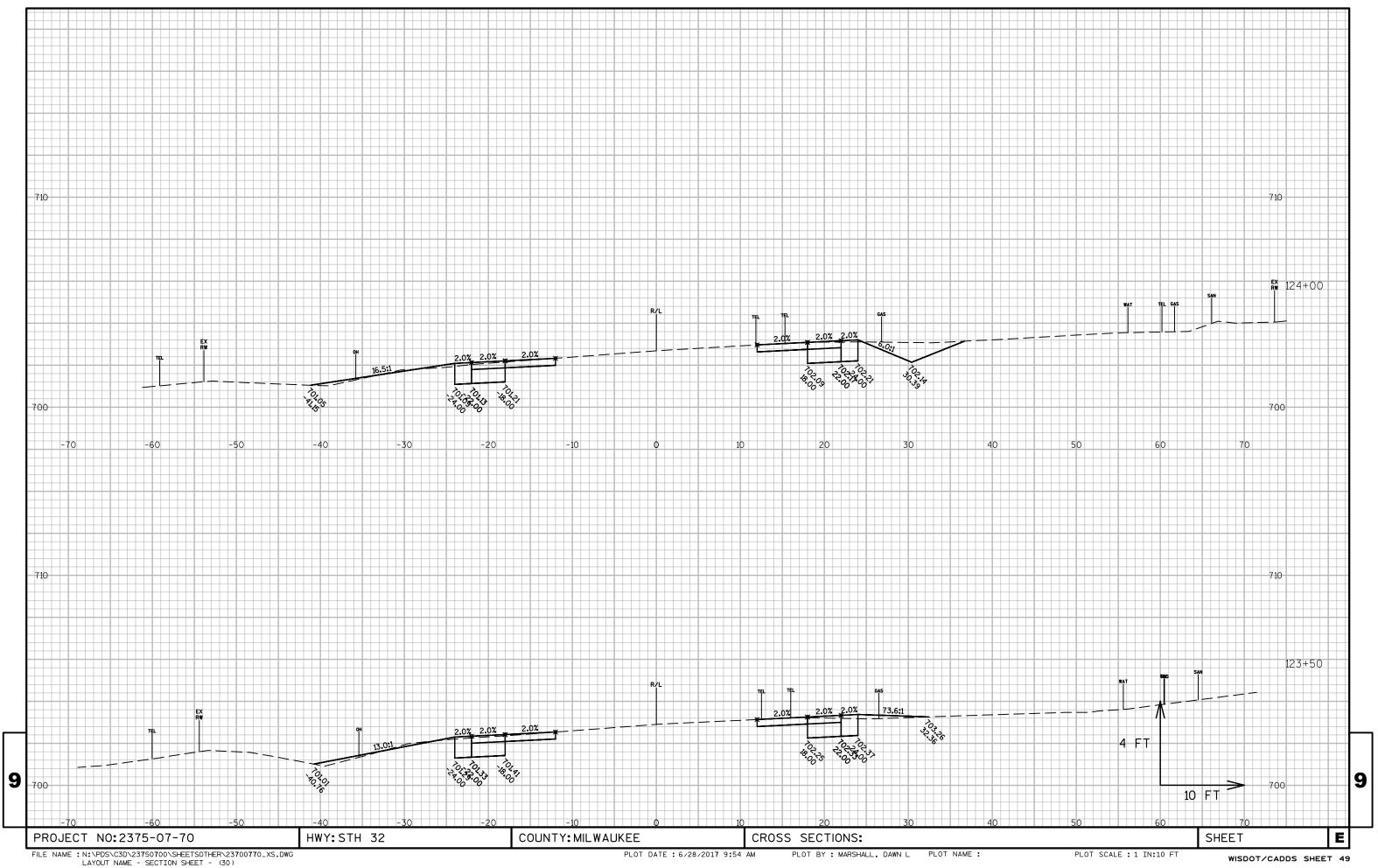


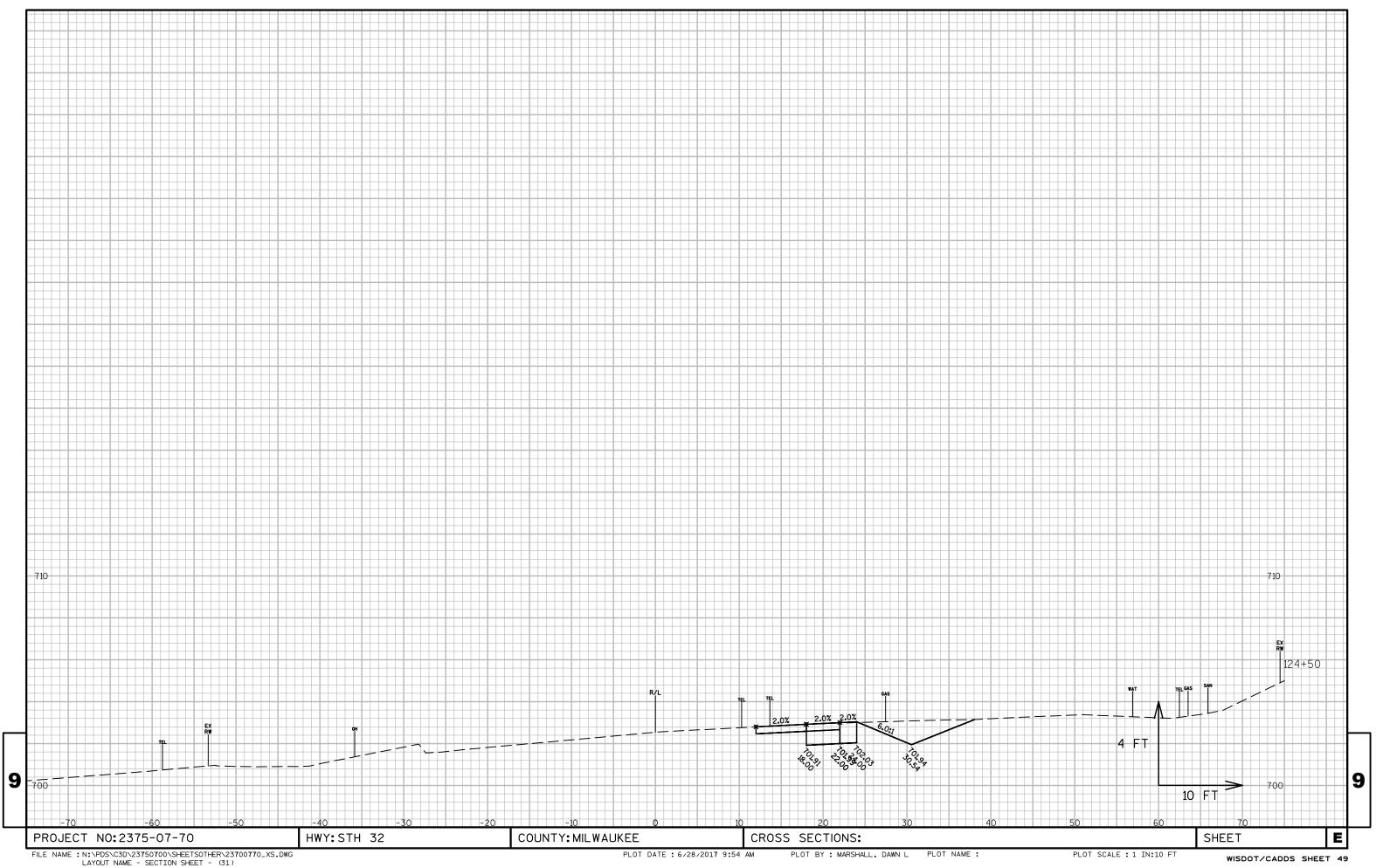


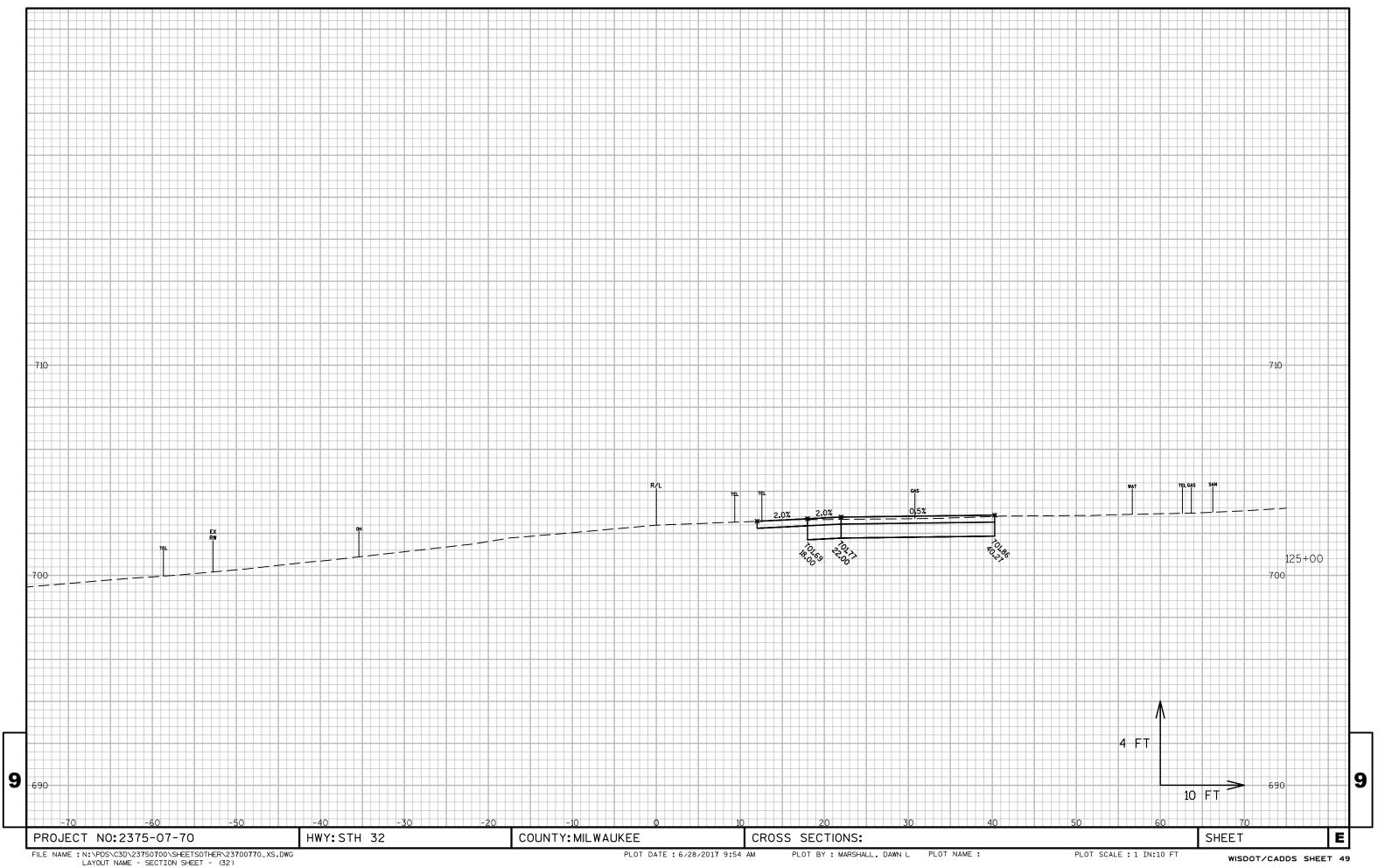


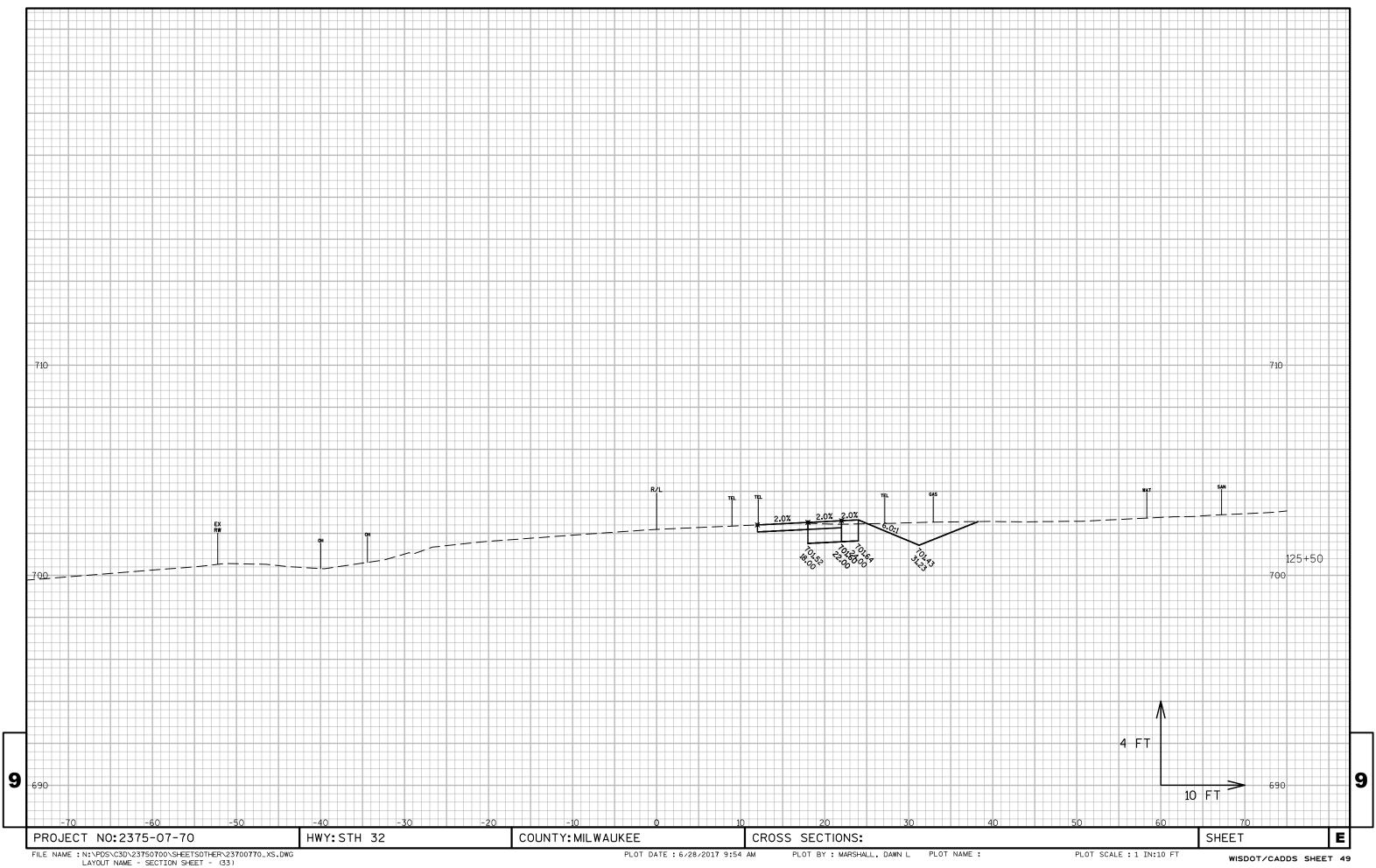


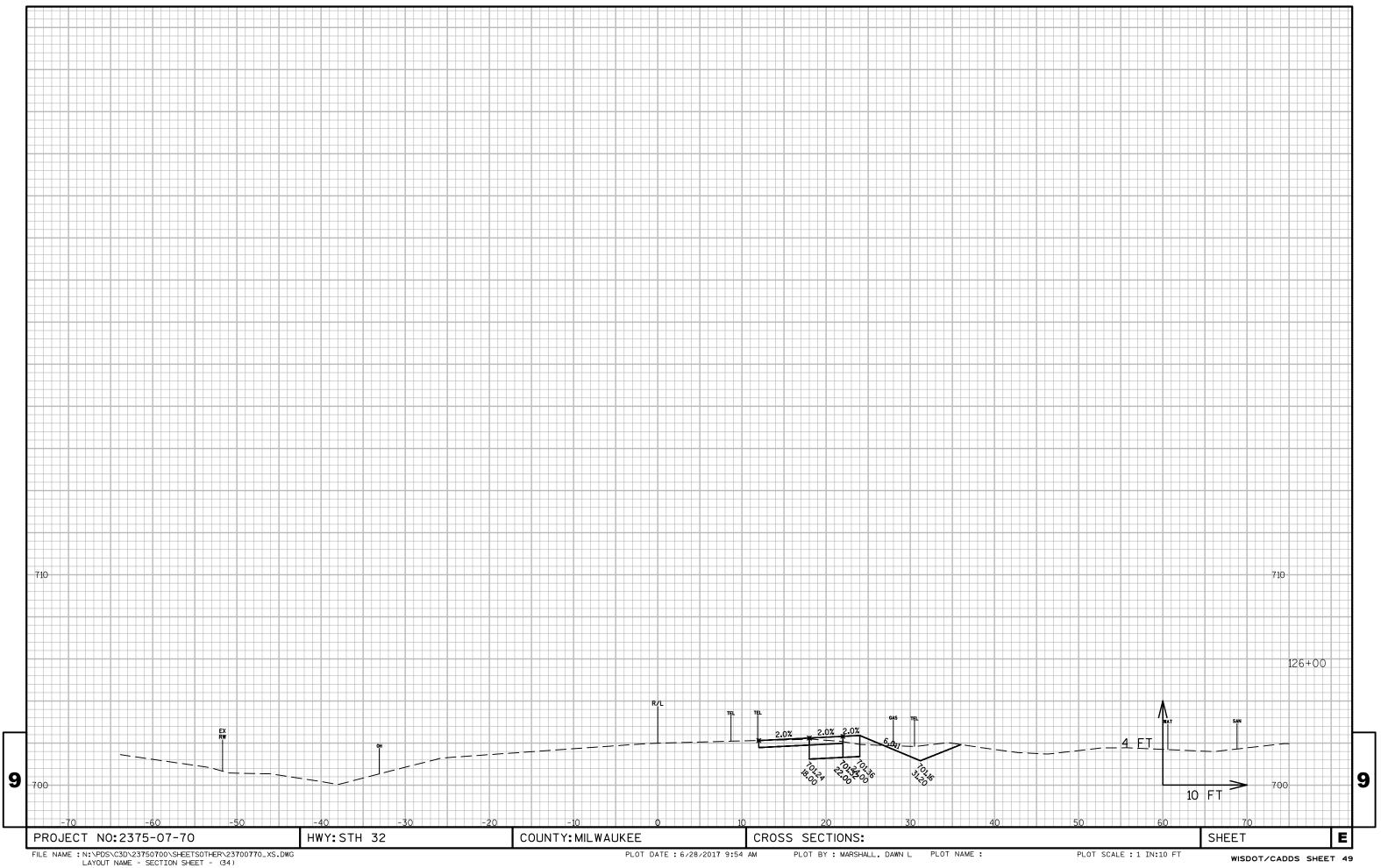


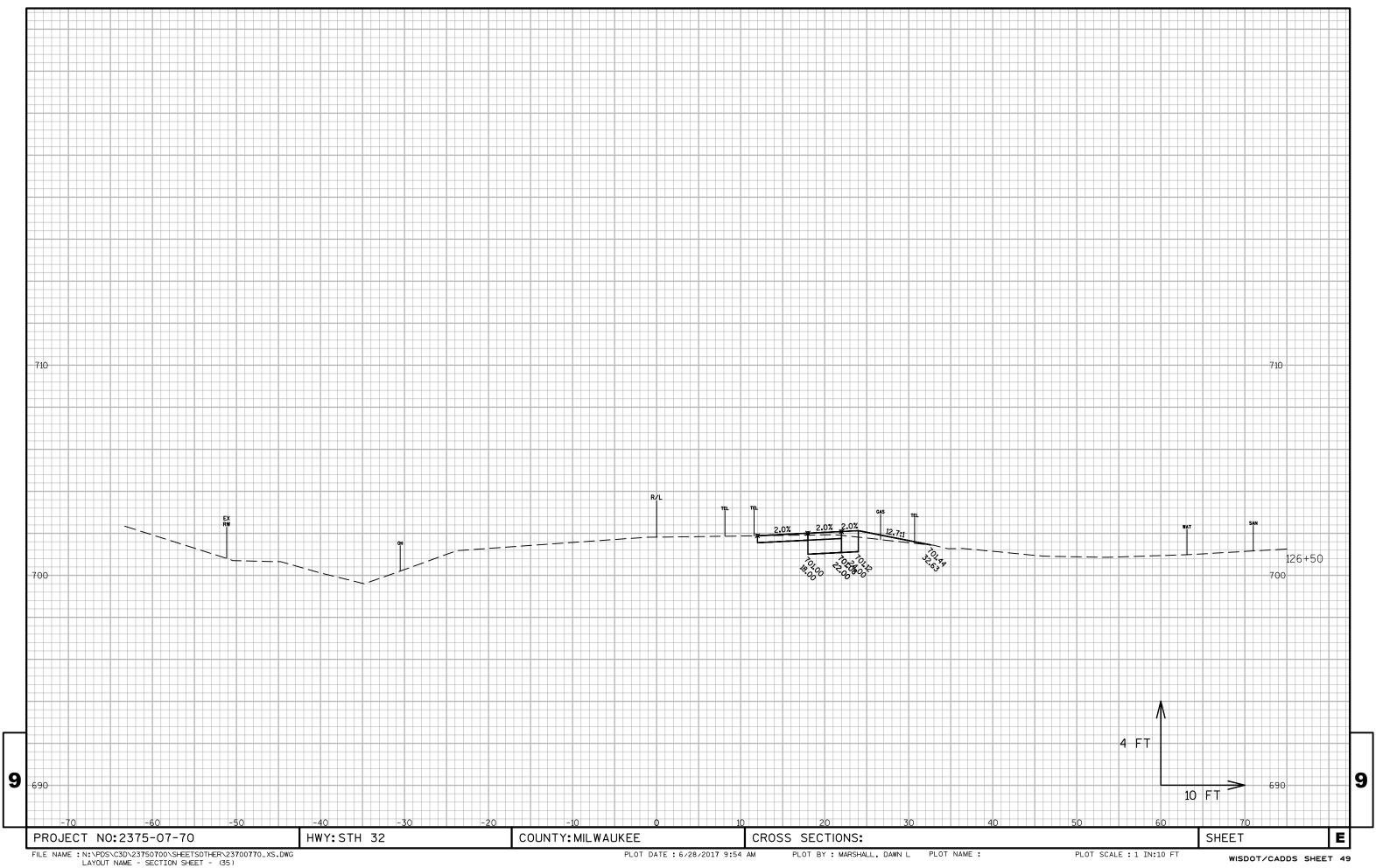


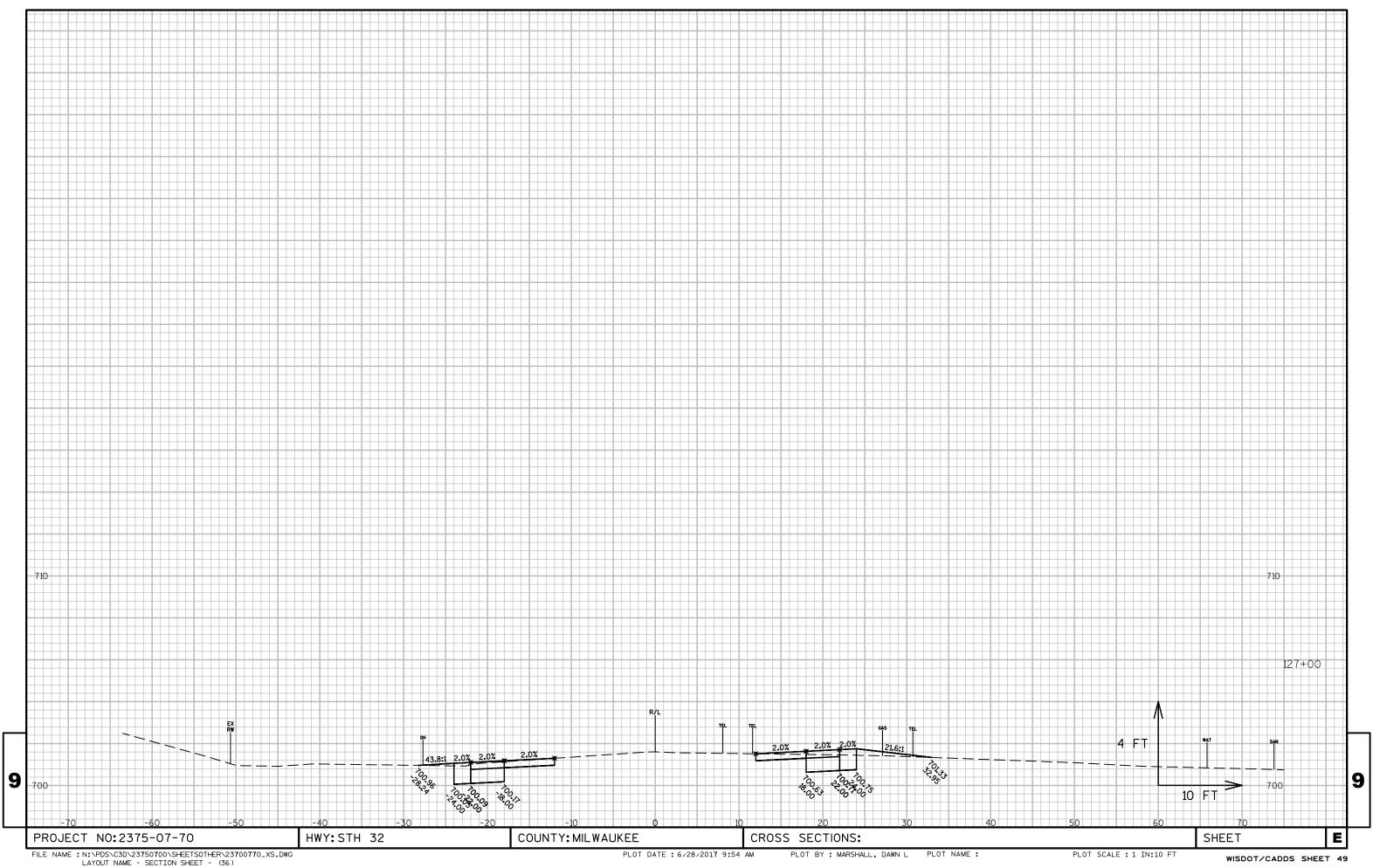


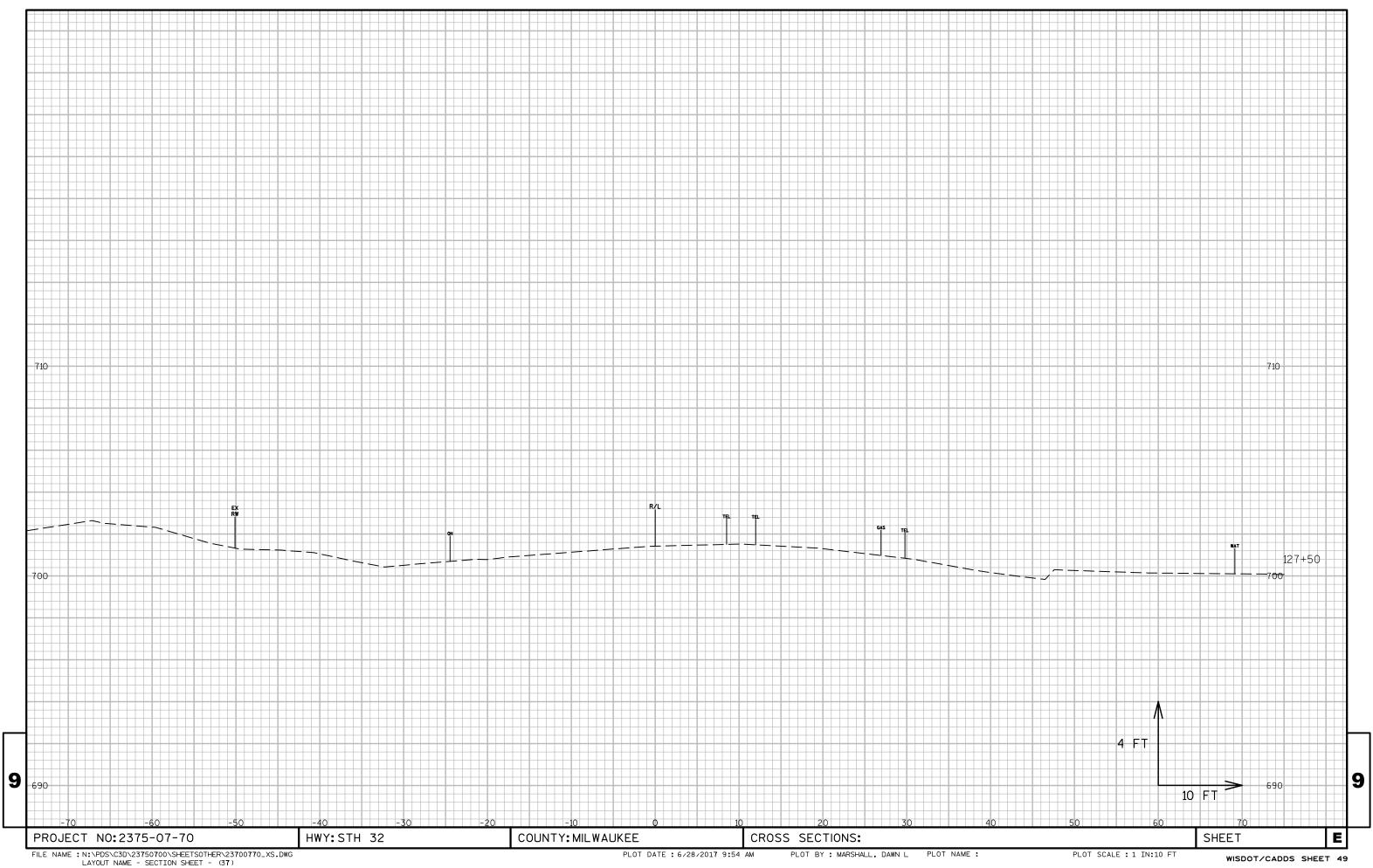


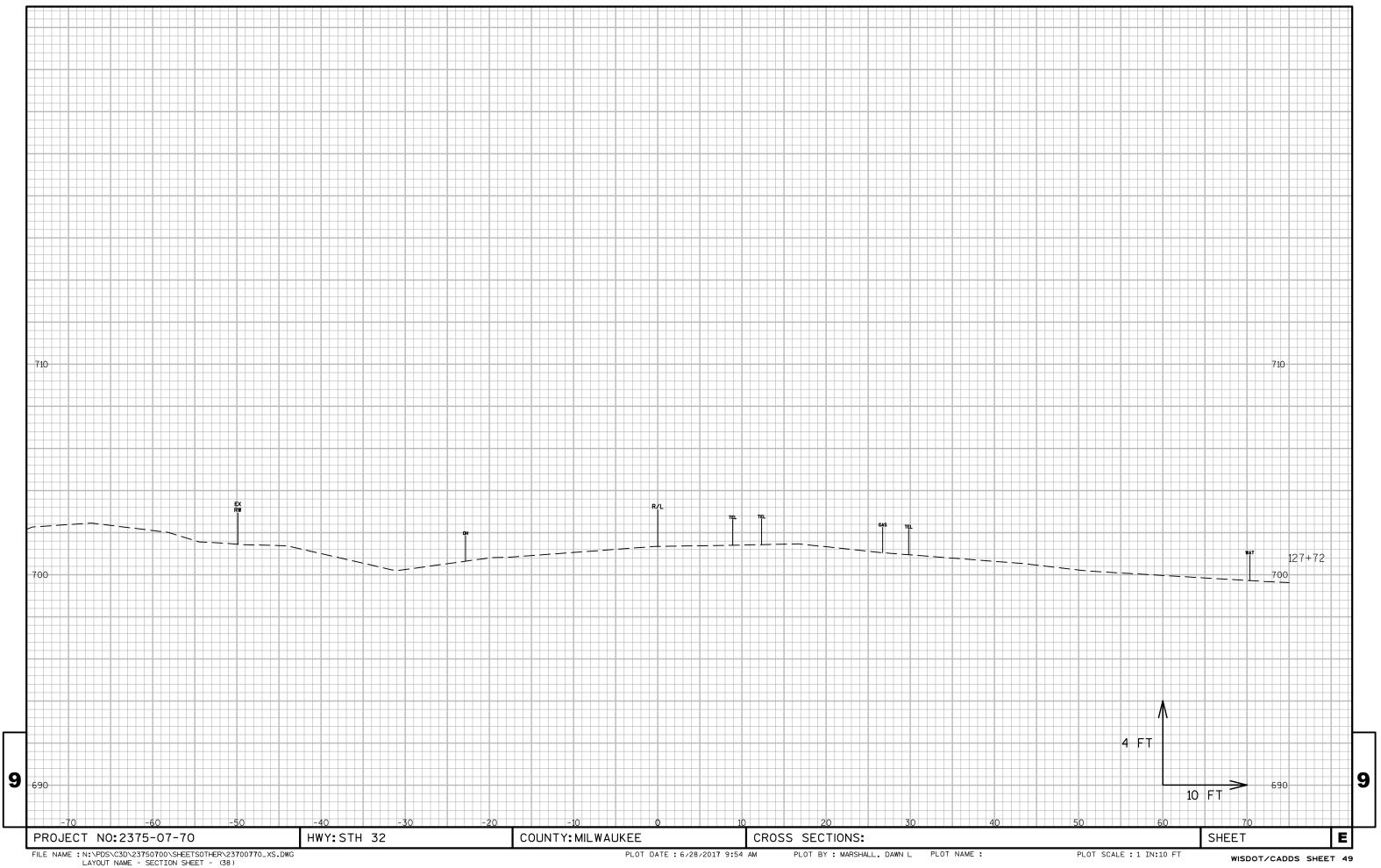


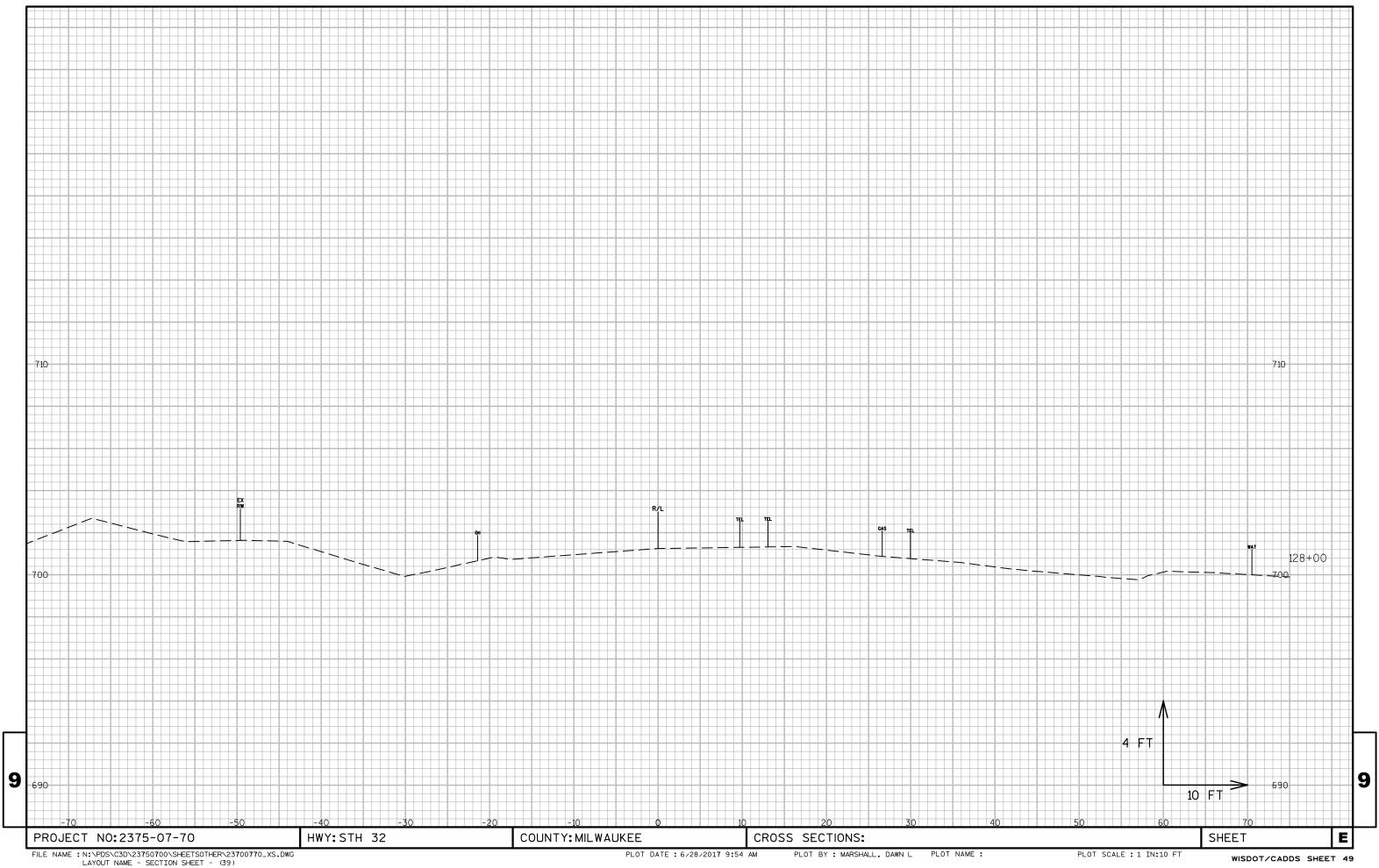


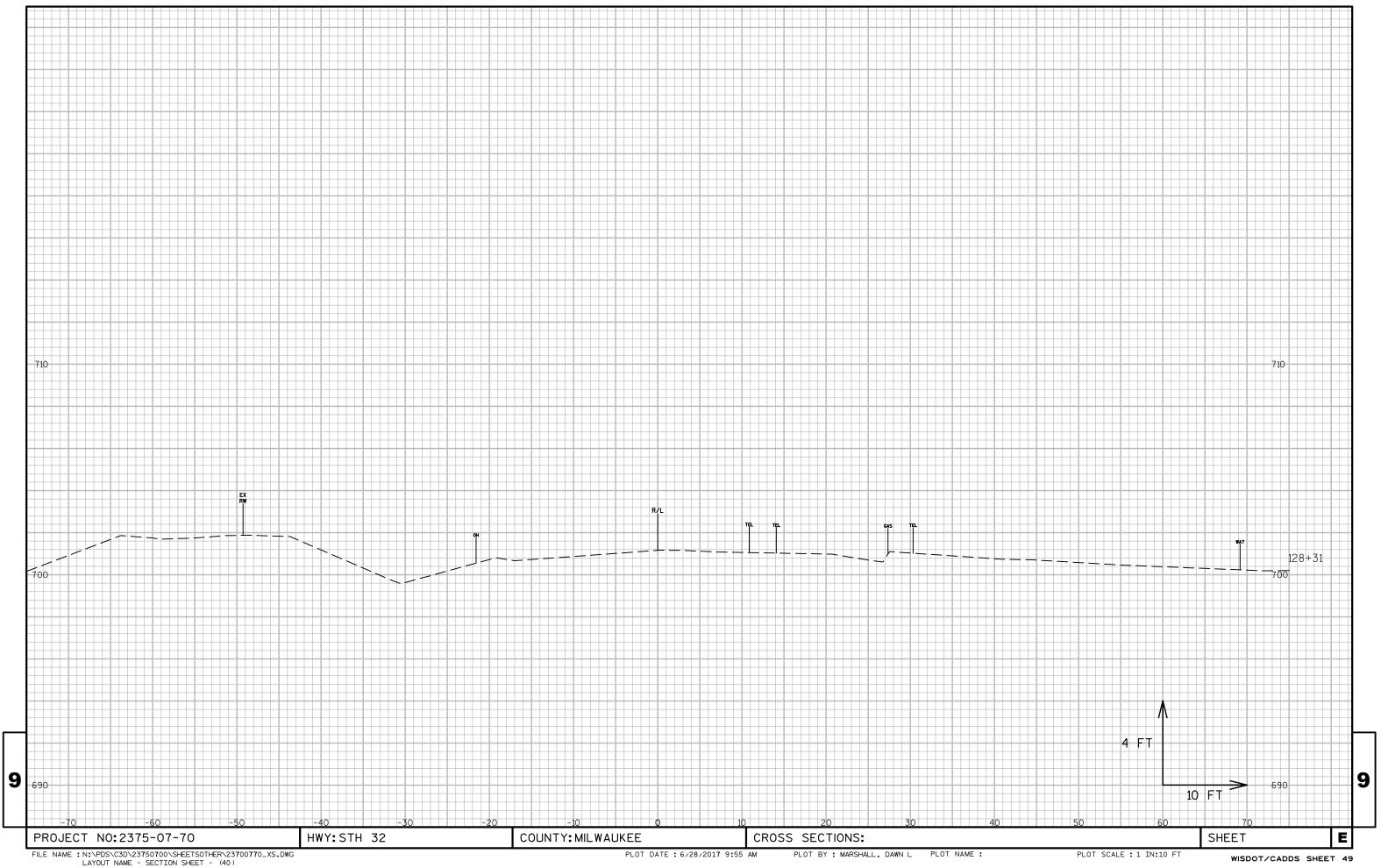


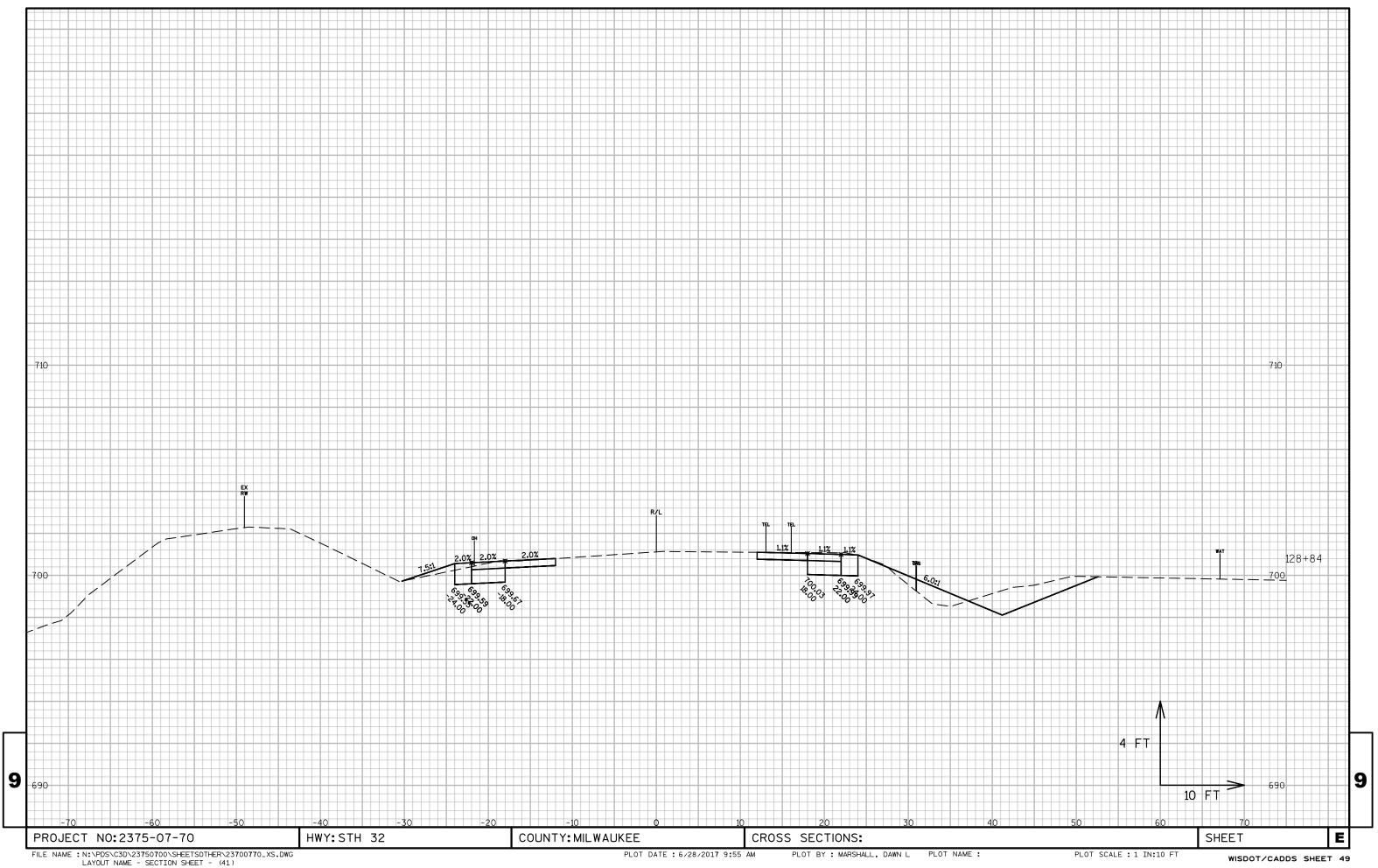


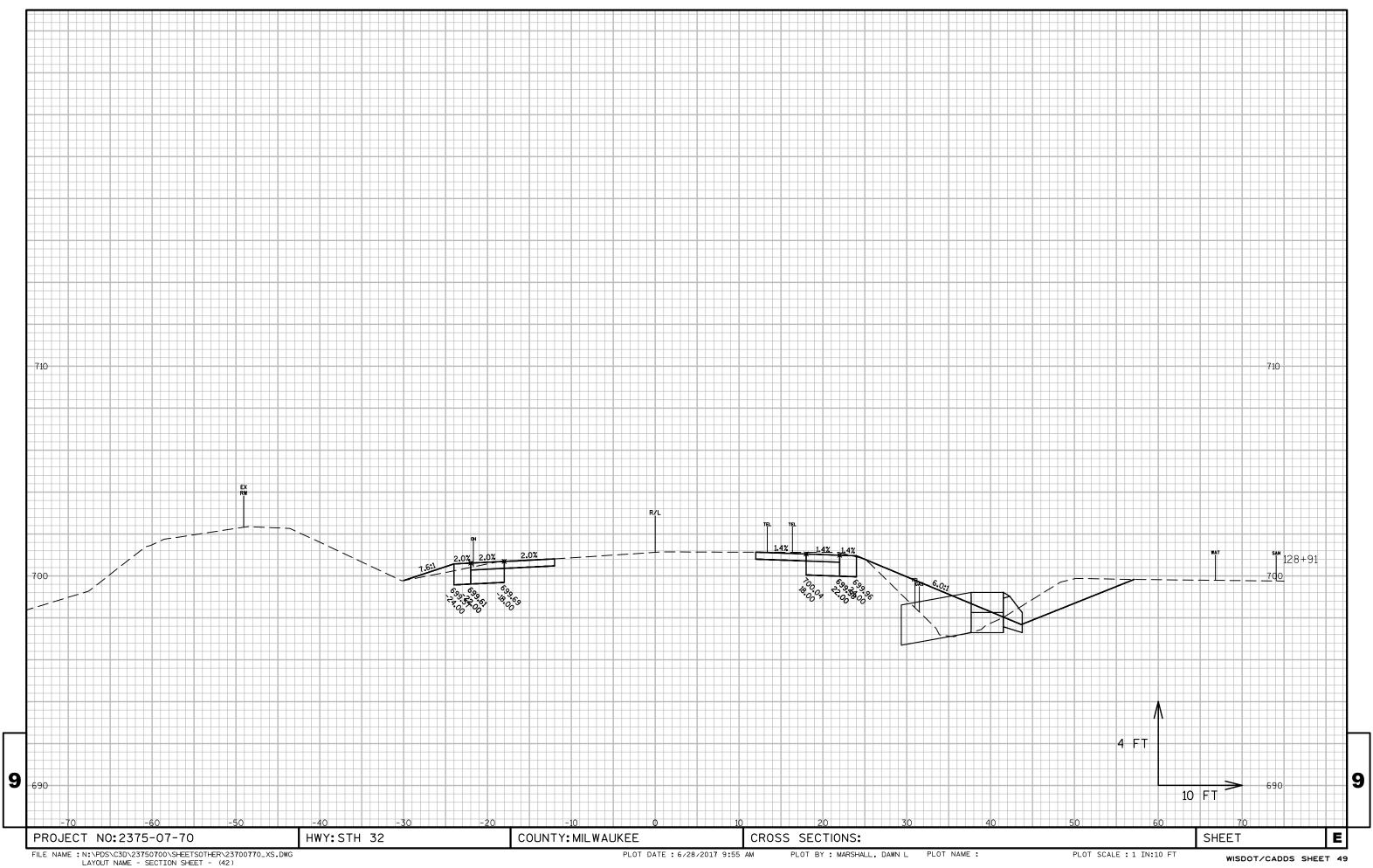


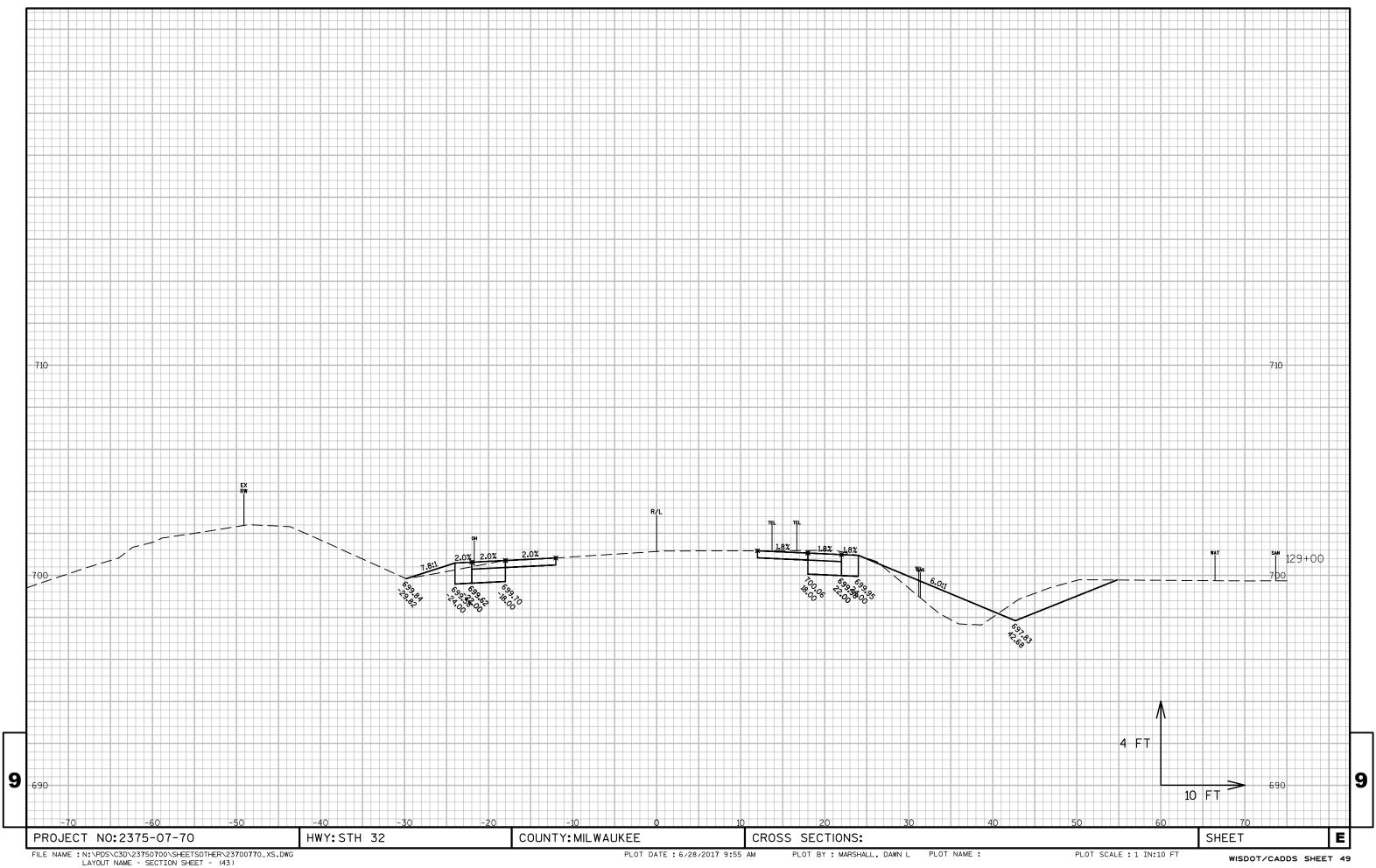


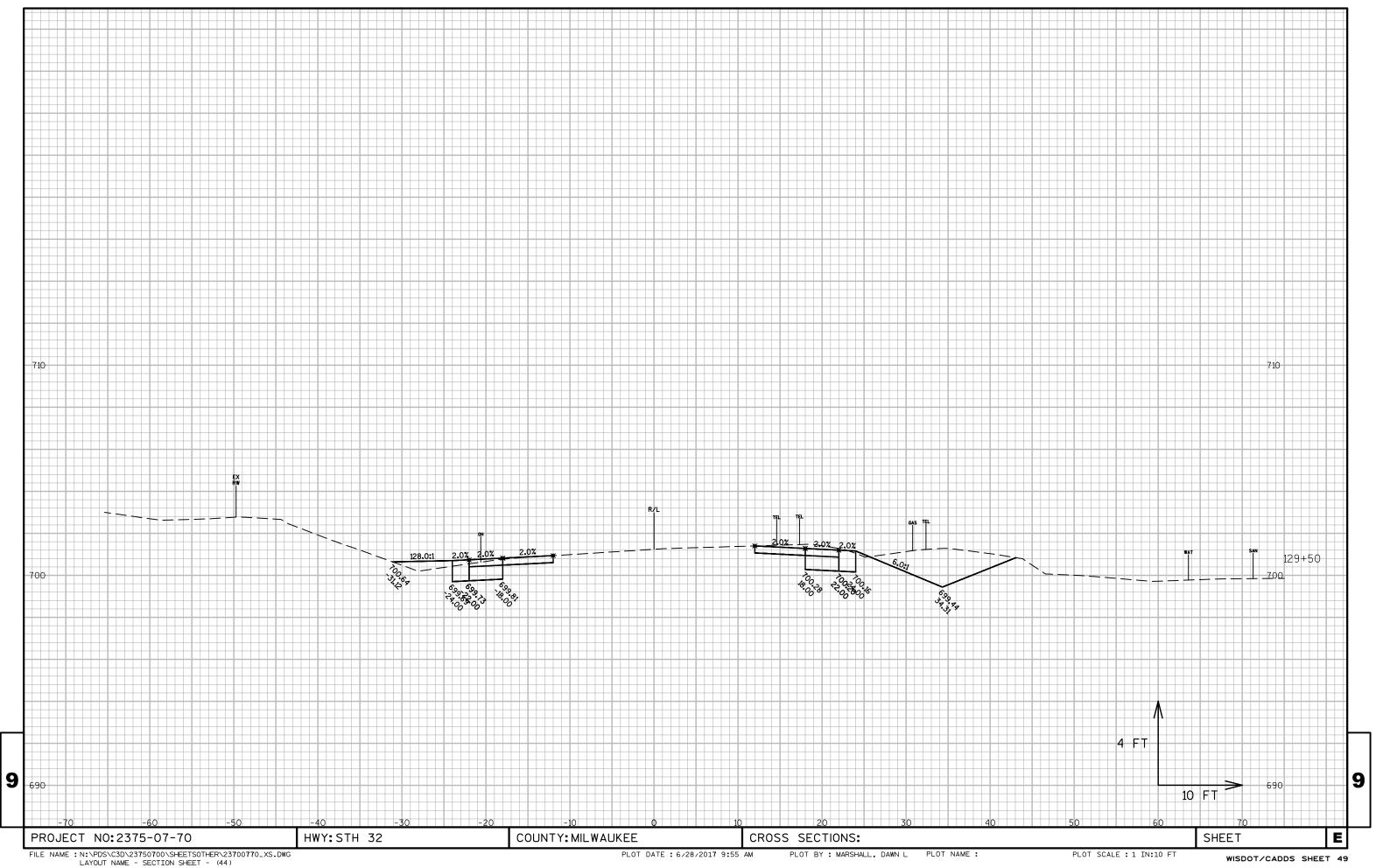


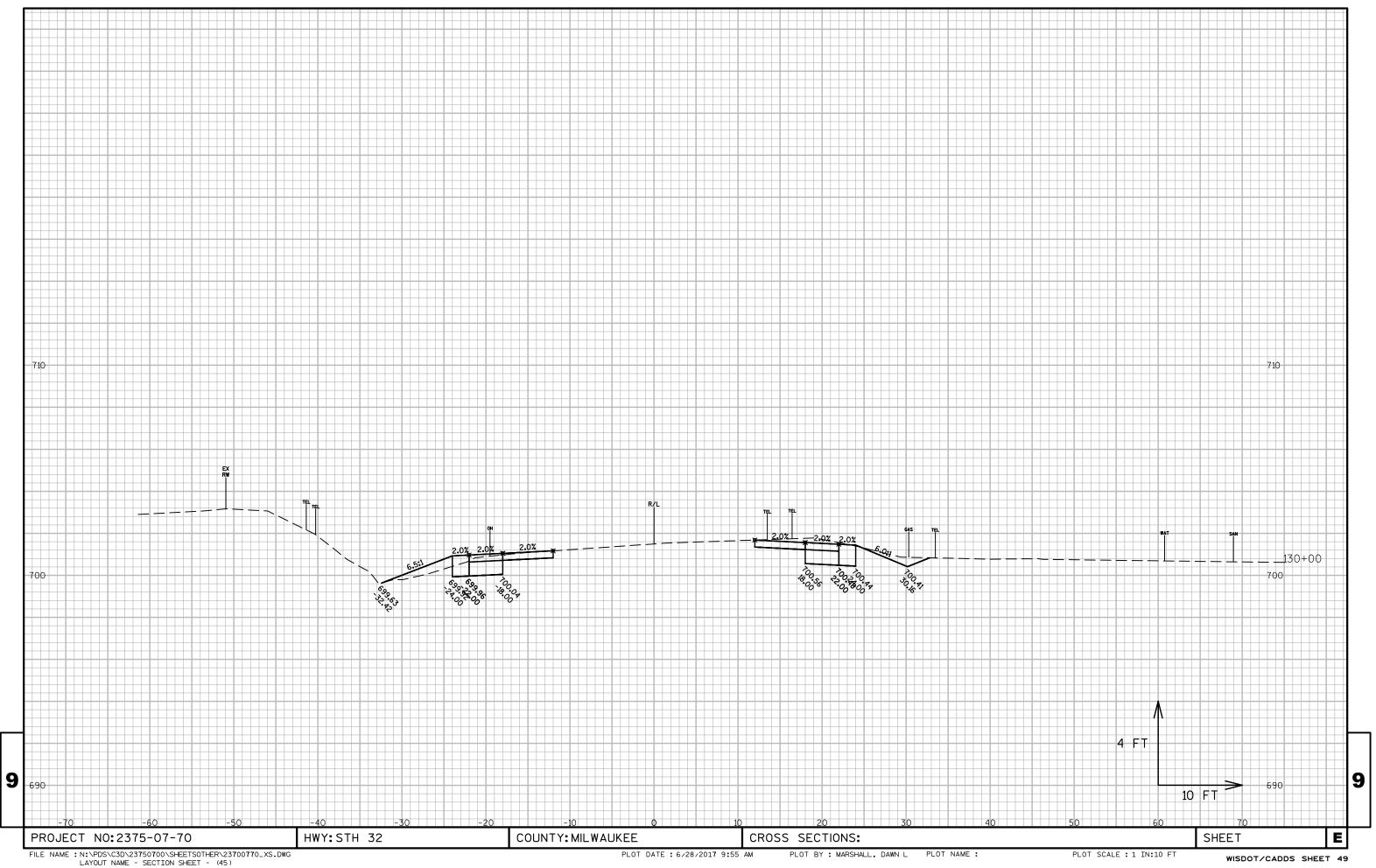


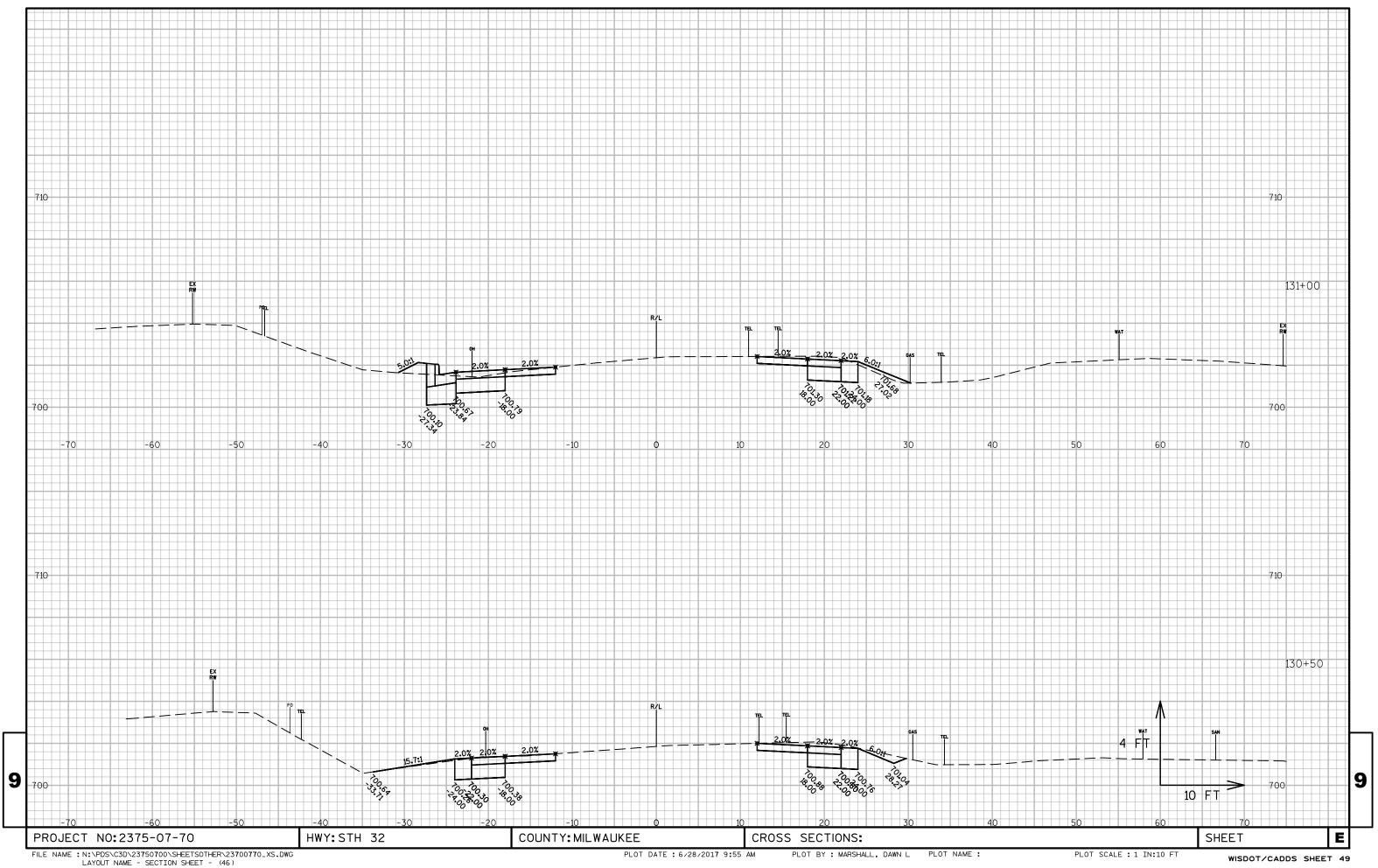


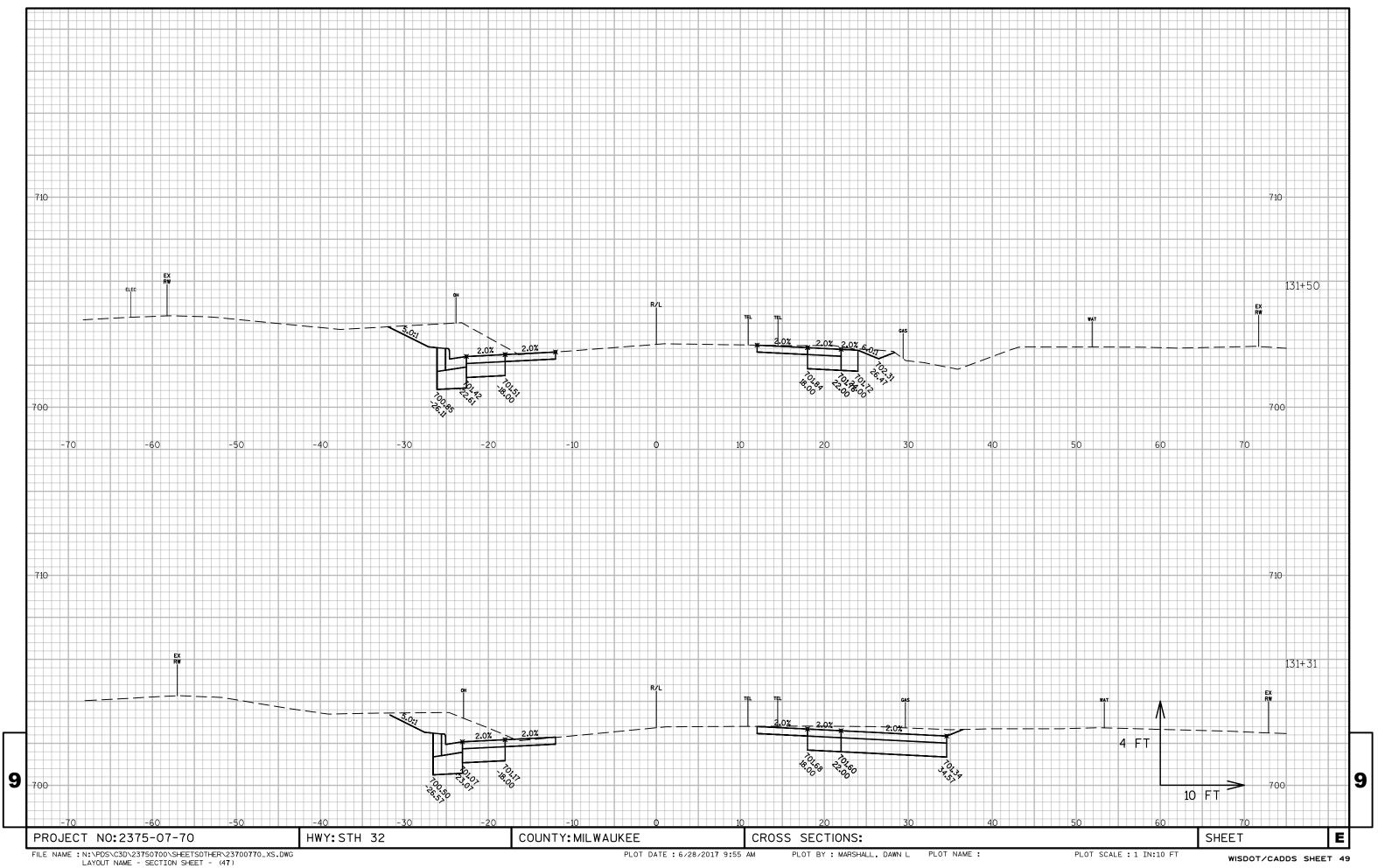


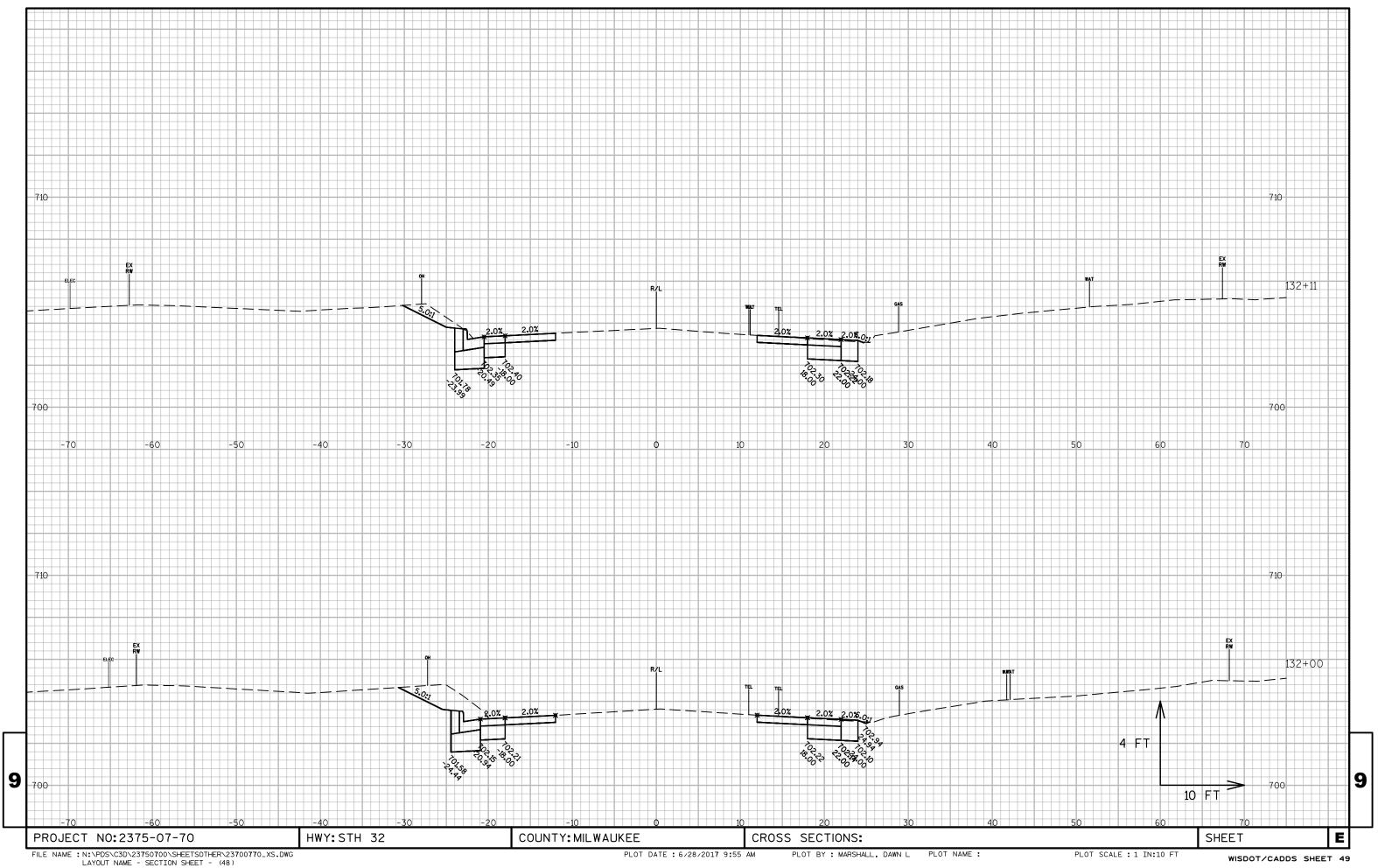














Wisconsin Department of Transportation

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