Section No. 5

Section No. 6

Section No. 7

Section No. 8

Section No. 9

Section No. 9

TOTAL SHEETS = 240

Plan and Profile

Structure Plans

Cross Sections

Sign Plates

Standard Detail Drawings

Computer Earthwork Data

MARSH AREA

WOODED OR SHRUB AREA

NOVEMBER 2019 STATE OF WISCONSIN ORDER OF SHEETS Section No. 1 DEPARTMENT OF TRANSPORTATION Section No. 2 Typical Sections and Details (Includes erosion control) Section No. 3 Estimate of Quantities PLAN OF PROPOSED IMPROVEMENT Section No. 3 Miscellaneous Quantities Section No. 4 Right of Way Plat

X

4

UTILITY PEDESTAL

TELEPHONE POLE

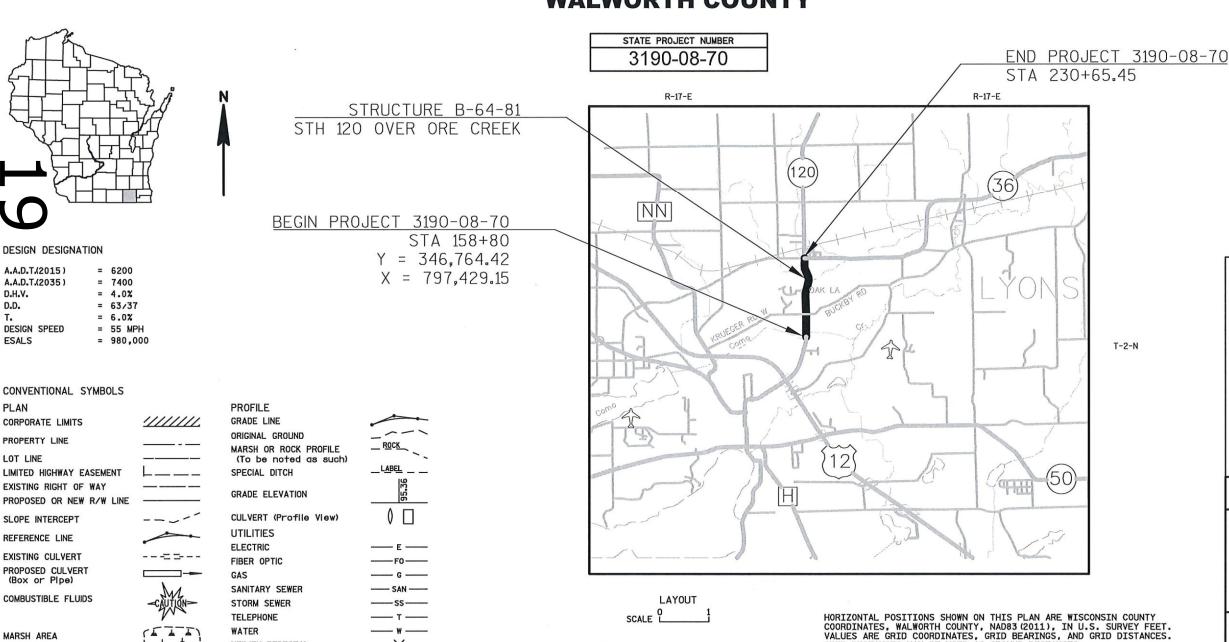
POWER POLE

FEDERAL PROJECT STATE PROJECT CONTRACT PROJECT WISC 2019688 3190-08-70

LAKE GENEVA - EAST TROY

N SIDE OF COMO CRK BRIDGE TO STH 36

STH 120 WALWORTH COUNTY



ORIGINAL PLANS PREPARED BY Wiscowa! ANNE M. HOLZEM E-43226 SHEBOYGAN, ONAL EN

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

PREPARED BY TERRA TEC ENGINEERING, LLC Surveyor DONOHUE & ASSOCIATES, INC Designer Project Manager WISDOT JANET CANNON

TOTAL NET LENGTH OF CENTERLINE = 1361 MI

GRID DISTANCES MAY BE USED AS GROUND DISTANCES.

VERTICAL DATUM NAVD88 (2012).

ELEVATIONS SHOWN ON THIS PLAN ARE REFERENCED TO THE NORTH AMERICAN

E

UTILITY CONTACTS

NICKOLAS BELTZ ALLIANT ENERGY - ELECTRICITY 400B KOOPMAN LANE FLKHORN, WL 53121 (608) 295-8192 NICKOLASBELTZ@ALLIANTENERGY.COM

RONALD GLENDENNING WE ENERGIES - GAS/PETROLEUM 500 S 116TH ST WEST ALLIS, WI 53214 (414) 333-1556 RONALD.GLENDENNING@WE-ENERGIES.COM

AARON ANDERSON AT&T WISCONSIN - COMMUNICATION LINE 152 DIXON STREET, ROOM 104 MADISON, WI 53704 (608) 698-1186 AA8616@ATT.COM

RON MUELLER CHARTER COMMUNICATIONS - COMMUNICATION LINE 1320 N DR MARTIN LUTHER KING JR DR MILWAUKEE. WI 53212 (414) 312-2652 RONALD.MUELLER@CHARTER.COM

ADAM PSICIHULIS WE ENERGIES - ELECTRICITY 700 S KANE ST BURLINGTON, WI 53105 (262) 364-7597 ADAM.PSICIHULIS@WE-ENERGIES.COM

ALL DISTURBED AREAS WITHIN THE SLOPE INTERCEPTS SHALL BE RESTORED WITH TOPSOIL, SEED, FERTILIZER AND MULCH/EMAT AS SHOWN ON THE PLANS AND AS DIRECTED BY THE ENGINEER. ANY OTHER DISTURBED AREAS ARE TO BE SEEDED, FERTILIZED AND MULCHED AT THE CONTRACTORS FXPFNSF.

CONTRACTOR MUST CONTACT THE PROJECT ENGINEER AND SEWRPC (JOHN WASHBURN) AT LEAST TWO

CROSS DRAIN PIPE ELEVATIONS, LENGTHS AND LOCATIONS AS SHOWN ON THE PLANS MAY BE ADJUSTED

WEEKS PRIOR TO WORK NEAR ANY SECTION CORNER MONUMENT.

TO FIT EXISTING FIELD CONDITIONS AS DIRECTED BY THE ENGINEER.

ALL ITEMS LOCATED IN TEMPORARY LIMITED EASEMENT AREA, AT GROUND LEVEL, WILL BE REPLACED IN KIND UNLESS NOTED OTHERWISE IN PLANS.

THE EXACT LOCATION AND WIDTHS OF PRIVATE AND COMMERCIAL DRIVEWAYS ARE TO BE DETERMINED BY THE ENGINEER IN THE FIELD AND SHALL BE REPLACED IN KIND.

ALL DISTANCES ARE GROUND DISTANCES. TIES ARE HORIZONTAL UNLESS SHOWN OTHERWISE.

TREES DESIGNATED FOR REMOVAL ARE SHOWN ON THE PLANS. NO TREES OR SHRUBS ARE TO BE REMOVED WITHOUT APPROVAL OF THE ENGINEER.

THE CONTROL SURVEY CONDUCTED FOR THIS PROJECT MET THIRD ORDER CONTROL SURVEY SPECIFICATIONS.

EXCAVATION BELOW SUBGRADE (EBS) LOCATIONS ARE NOT SHOWN ON THE CROSS SECTIONS. IF EBS IS DETERMINED NECESSARY BY THE ENGINEER IN THE FIELD IT SHALL BE MEASURED AND PAID FOR AS EXCAVATION COMMON. BACKFILL EBS AREAS WITH SELECT CRUSHED MATERIAL. LATERAL TRANSITIONS OUT OF EBS AREAS SHALL BE AT A 5:1 SLOPE.

EROSION CONTROL BMP'S ARE SHOWN ON THE EROSION CONTROL SHEETS AND IN THE SUMMARY OF MISCELLANEOUS QUANTITIES. BMP'S ARE AT SUGGESTED LOCATIONS. THE ACTUAL LOCATIONS WILL BE DETERMINED BY THE CONTRACTORS ECIP AND BY THE ENGINEER IN THE FIELD. EROSION CONTROL BMP'S SHALL BE MAINTAINED UNTIL PERMANENT VEGETATION IS ESTABLISHED OR UNTIL THE ENGINEER DETERMINES THAT THE BMP IS NO LONGER REQUIRED.

THE CONTRACTOR'S PAVING OPERATIONS SHALL BE CONSISTENT WITH THE PLAN TYPICAL SECTIONS AND CONSTRUCTED TO PREVENT HMA LONGITUDINAL JOINTS FROM BEING LOCATED WITHIN A DRIVING, TURNING, PASSING OR PARKING LANE.

HMA PAVEMENT

GENERAL NOTES:

- LOWER LAYER 3-INCH HMA PAVEMENT 3 LT 58-28 S
- UPPER LAYER 2-INCH HMA PAVEMENT 4 LT 58-28 S

THE LOCATIONS OF EXISTING AND PROPOSED UTILITY INSTALLATIONS AS SHOWN ON THE PLANS ARE APPROXIMATE. THERE MAY BE OTHER UTILITY INSTALLATIONS WITHIN THE PROJECT AREA THAT ARE NOT SHOWN. COORDINATE CONSTRUCTION ACTIVITIES WITH A CALL TO DIGGERS HOTLINE AND/OR A DIRECT CALL TO THE UTILITIES THAT HAVE FACILITIES IN THE AREA. NOT ALL UTILITIES ARE MEMBERS OF DIGGERS HOTLINE.

ALL PRIVATE EXISTING UTILITIES ARE TO BE ADJUSTED BY THE UTILITIES CONCERNED.

ORDER OF SECTION 2 DETAIL SHEETS

GENERAL NOTES PROJECT OVERVIEW TYPICAL SECTIONS CONSTRUCTION DETAILS INTERSECTION DETAILS CURB RAMP DETAILS EROSION CONTROL PLAN PERMANENT SIGNING TRAFFIC CONTROL ALIGNMENT LAYOUT ALIGNMENT LAYOUT SURVEY CONTROL

CONVENTIONAL SYMBOLS AND ABBREVIATIONS

			_
STATE, COUNTY, or TOWN LINE		ACCESS POINT/ DRIVEWAY CONNECTION	AP
SECTION LINE		ACCESS RIGHTS	AR
QUARTER I INF		ACRES	AC.
SIXTEENTH LINE		AND OTHERS	ET.AL.
PROPOSED REFERENCE LINE		CENTERLINE	C/L
PROPOSED RAW LINE		CERTIFIED SURVEY MAP	CSM
EXISTING H.E. LINE		DOCUMENT	DOC.
PROPERTY LINE		HIGHWAY EASEMENT	H.E.
EASEMENT LINE		LAND CONTRACT	LC
	///////	MONUMENT	MON.
EXISTING CENTERLINE		PAGE	P.
LOT & TIE LINES		PERMANENT LIMITED EASEMENT	PLE
UTTI TTTES		PROPERTY LINE	PL
(TELEPHONE, GAS, ELECTRIC, CABLE TV, FIE	FO —— (TYPE)	RECORDED AS	(100')
NO ACCESS		REFERENCE LINE	R/L
(BY PREVIOUS ACQUISITIO	N/CONTROL)	REMAINING	REM.
		RIGHT-OF-WAY	R/W
(BY ACQUISTION)		SECTION	SEC.
NO ACCESS (BY STATUTORY AUTHORITY	7	SQUARE FEET	SQ.FT.
FEE (HATCH VARIES)	, , , , , ,	STATION	STA.
TEMPORARY LIMITED		TEMPORARY LIMITED EASEMENT	TLE
EASEMENT	hata (hata)	VOLUME	٧.
PERMANENT LIMITED	K-20-21	<u>CURVE DATA</u>	
EASEMENT PARCEL NUMBER		LONG CHORD	LCH
	@	LONG CHORD BEARING	LCB
UTILITY PARCEL NUMBER	9 2	RADIUS	R
SIGN NUMBER	21-1	DEGREE OF CURVE	D
(OFF PREMISE)	<u> </u>	CENTRAL ANGLE OR DELTA	DELTA
BUILDING		LENGTH OF CURVE	L
FOUND IRON PIPE/PIN	UNLESS NOTED)	TANGENT	TAN
R/W MONUMENT	• •(SET)	NON	
R/W STANDARD	△ ▲(SET)		E COMPENSABLE
CTCN	ISION	POWER POLE 占	±

DNR CONTACT

CRAIG WEBSTER DNR SERVICE CENTER 141 NW BARSTOW STREET ROOM 180 WAUKESHA, WI 53188 (262) 574-2141 CRAIG.WEBSTER@WISCONSIN.GOV

WISDOT PROJECT MANAGER CONTACT

GARY METZER, PE WISDOT SE REGION 141 NW BARSTOW STREET PO BOX 798 WAUKESHA, WI 53187-0798 (262) 548-5685 GARY.METZER@DOT.WI.GOV

SEWRPC CONTACT

JOHN WASHBURN SOUTHEASTERN WISCONCIN REGIONAL PLANNING COMMISSION W239 N1812 ROCKWOOD DRIVE PO BOX 1607 WAUKESHA, WI 53187-1607 PHONE: (262) 953-4295 FAX: (262 953-4295 EMAIL: JWASHBURN@SEWRPC.ORG

DESIGNER CONTACT

ANNE HOLZEM, PE DONOHUE & ASSOCIATES, INC 3311 WEEDEN CREEK ROAD SHEBOYGAN, WI 53081 (920) 803-7338 AHOLZEM@DONOHUE-ASSOCIATES.COM



PROJECT NO: 3190-08-70

SECTION CORNER SYMBOL

SIGN

HWY: STH 120

COUNTY: WALWORTH

GENERAL NOTES

PLOT NAME :

SHEET

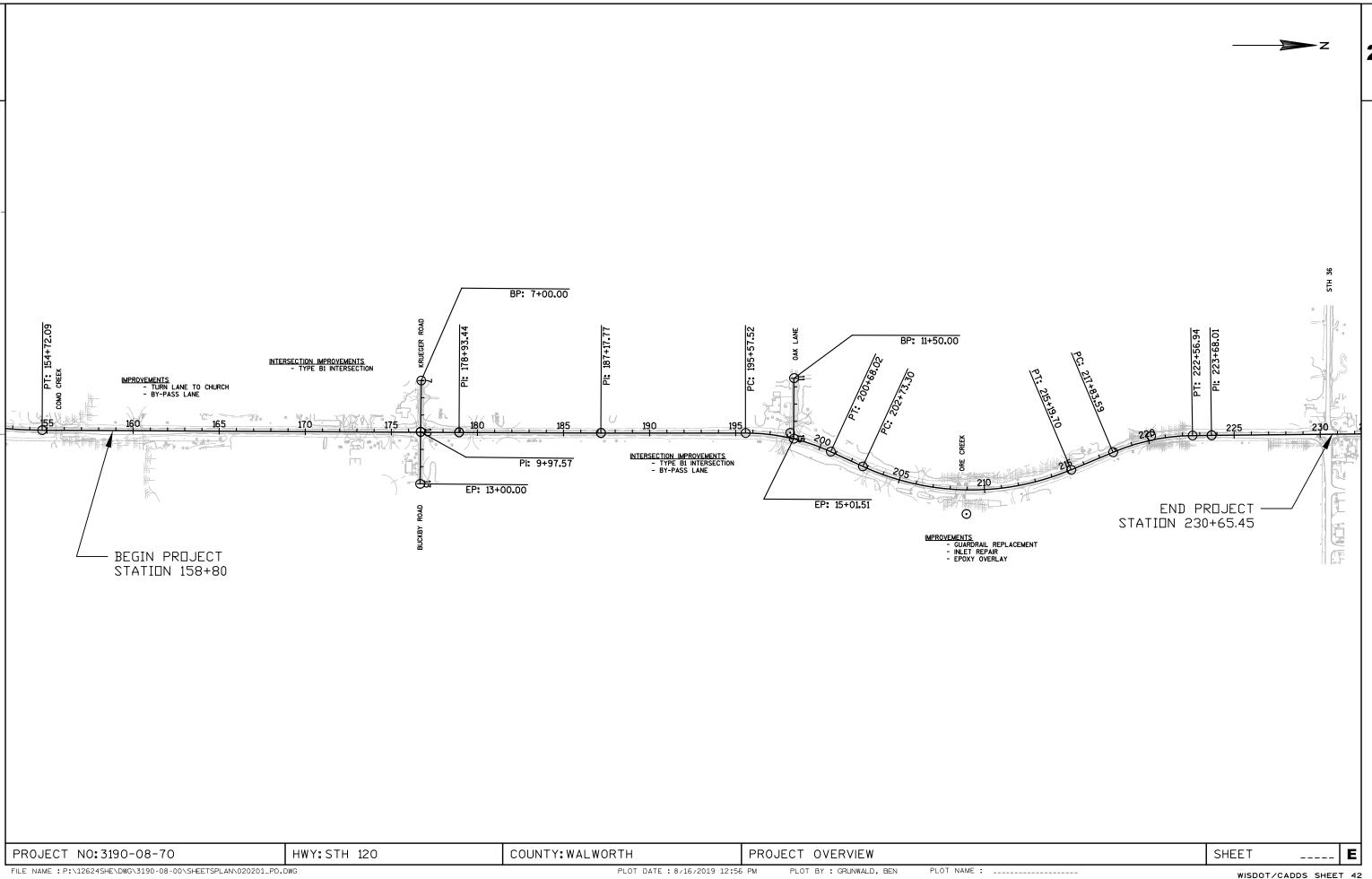
FUE NAME: P:\12624SHE\DWG\3190-08-00\SHEETSPLAN\020101 GN_DWG

ISIGN

TELEPHONE POLE

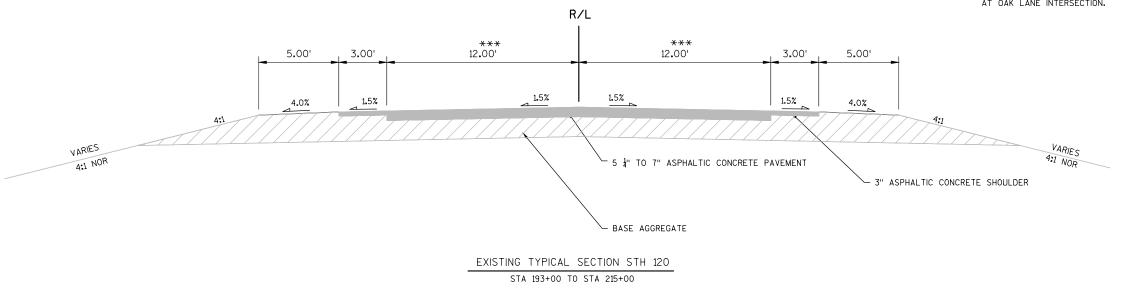
TELEPHONE PEDESTAL X

PLOT DATE: 8/16/2019 12:56 PM PLOT BY : GRUNWALD, BEN PLOT SCALE : 1 TN:10 FT



R/L ** 12.00' ** 12**.**00' 5.00 5.00' 3.00' 3.00' 1.5% 1.5% 1.5% 1.5% 4.0% 4.0% VARIES VARIES 4:1 NOR 4:1 NOR 1' (TYP) 5" - 7" ASPHALTIC CONCRETE PAVEMENT - 3" ASPHALTIC CONCRETE SHOULDER - 9-INCH CONCRETE PAVEMENT - BASE AGGREGATE EXISTING TYPICAL SECTION STH 120 STA 159+80 TO STA 193+00 STA 215+00 TO STA 227+00 NOTES: * WIDTH VARIES FOR BYPASS LANE
22' FROM STA 159+80 TO STA 161+00
TAPER FROM 22' TO 12' FROM STA 161+00 TO STA 163+50
12' FROM STA 163+60 TO STA 193+00

- ** WIDTHS VARY FROM 12' TO 20' FOR INTERSECTION TAPERS AT BUCKLEY ROAD/KRUEGER RD INTERSECTION.
- $\mbox{\ensuremath{\mbox{\scriptsize \star}}}\mbox{\ensuremath{\mbox{\scriptsize \star}}}\mbox{\ensuremath{\mbox{\scriptsize w}}}\mbox{\ensuremath{\mbox{\scriptsize 0}}}\mbox{\ensuremath{\mbox{\scriptsize 0

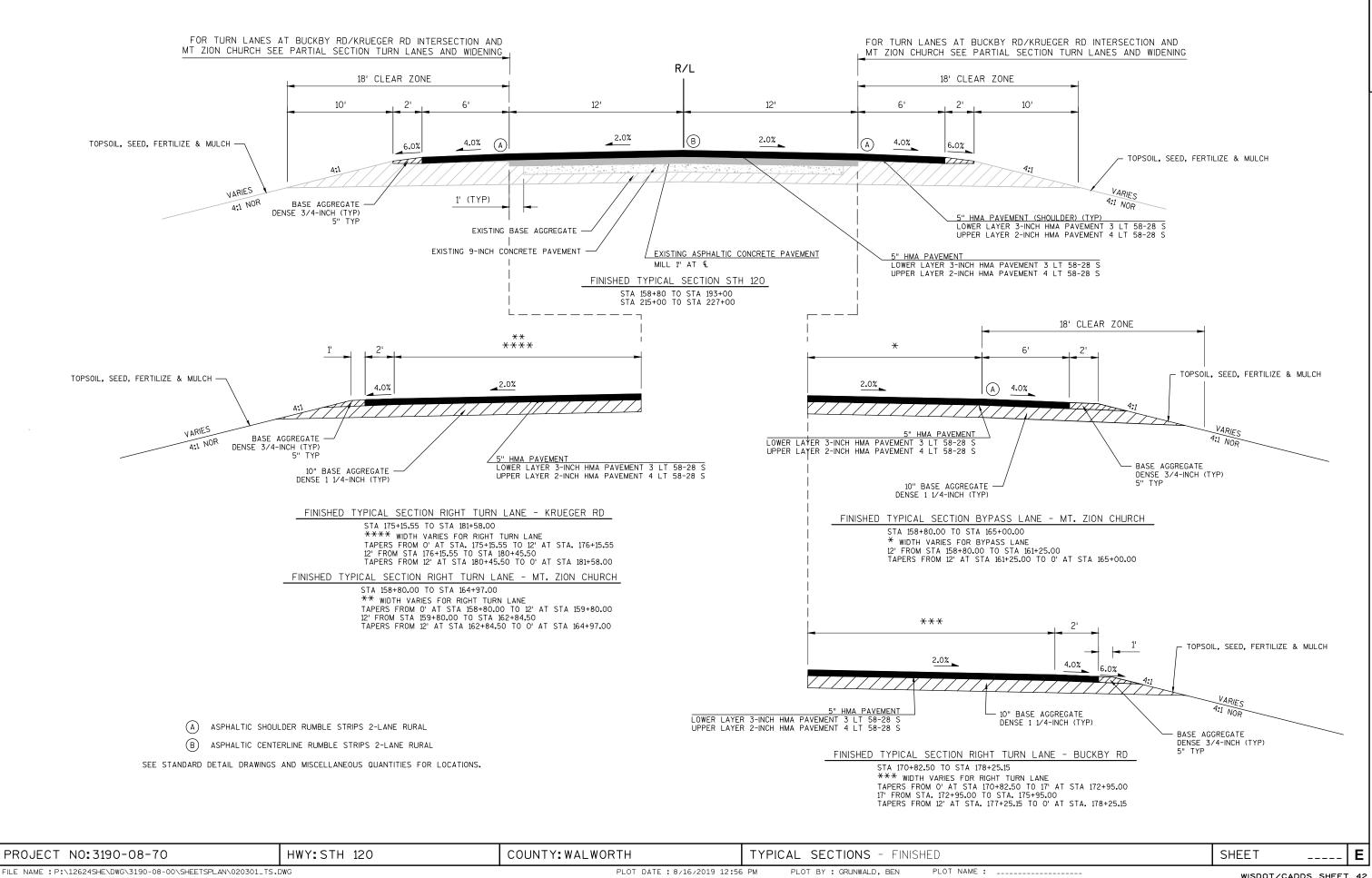


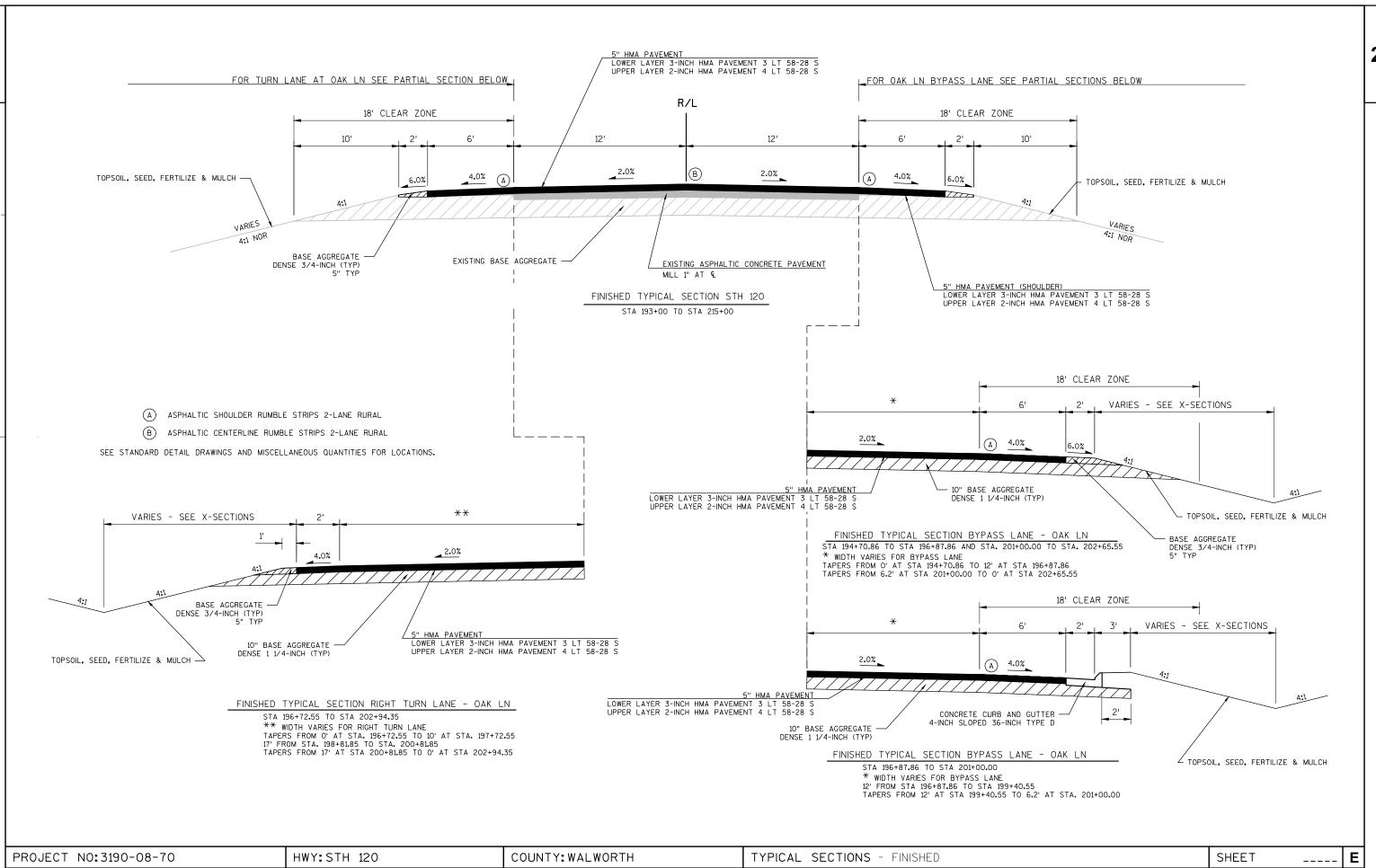
COUNTY: WALWORTH PROJECT NO:3190-08-70 HWY:STH 120 FILE NAME : P:\12624SHE\DWG\3190-08-00\SHEETSPLAN\020301_TS.DWG

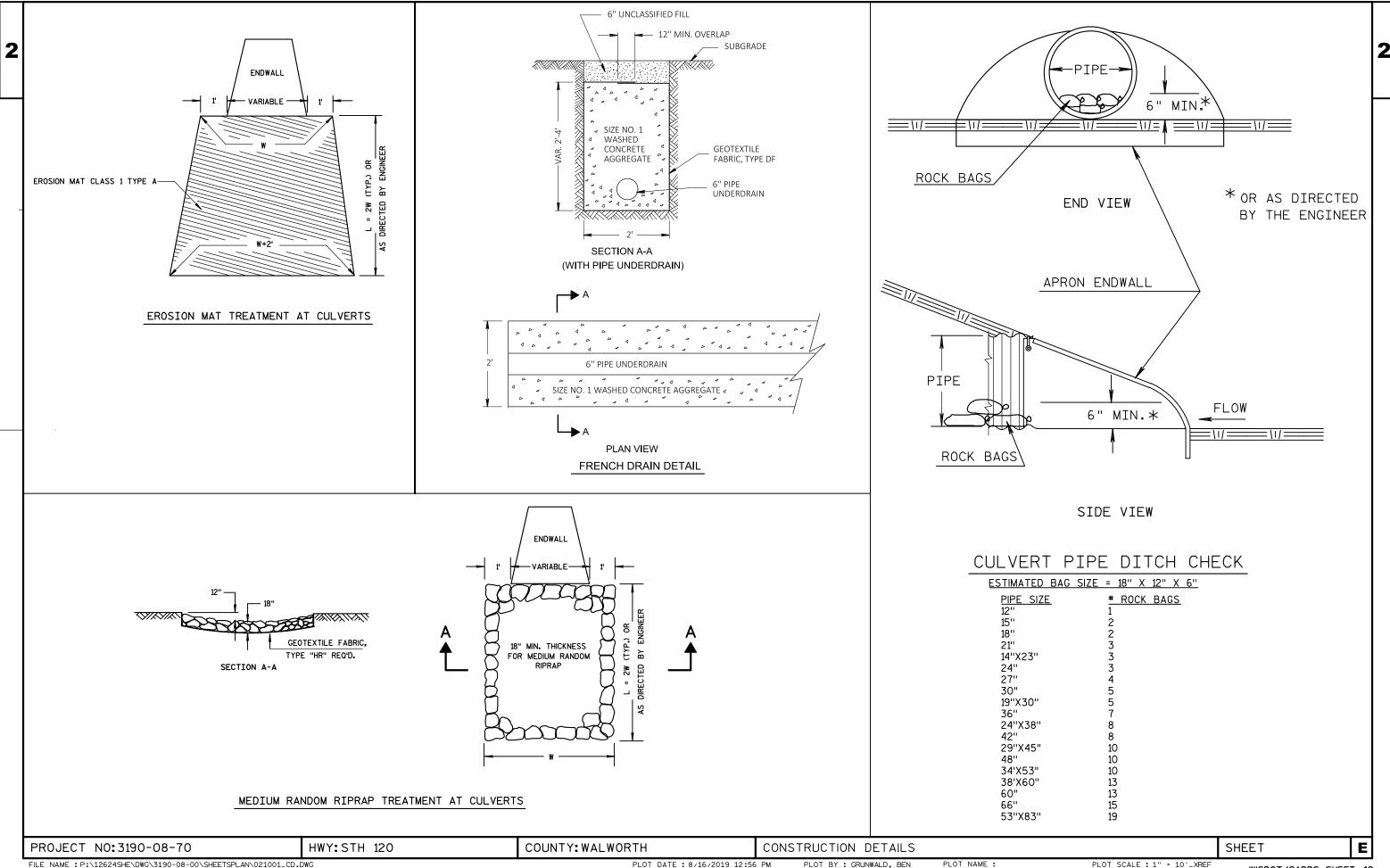
TYPICAL SECTIONS - EXISTING

SHEET

PLOT NAME :

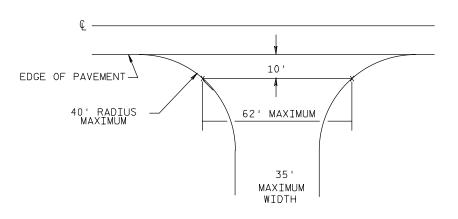






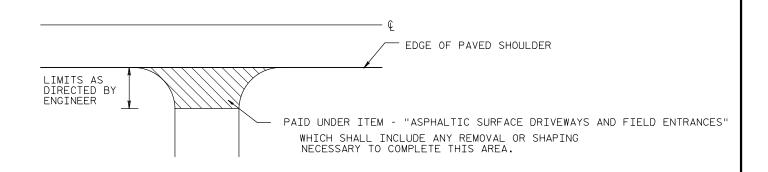
10' EDGE OF PAVEMENT 30' RADIUS MAXIMUM 40' MAXIMUM 16' TYPICAL 24' MAXIMUM WIDTH

TYPICAL DRIVEWAY DETAIL (NON-COMMERCIAL RURAL) C.E.

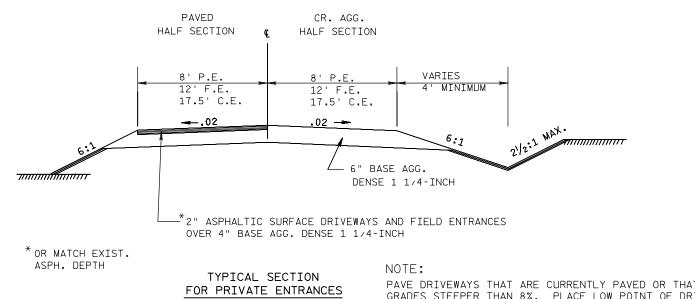


TYPICAL DRIVEWAY DETAIL (COMMERCIAL RURAL) P.E. F.E.

RURAL DRIVEWAY DETAIL - ASPHALT

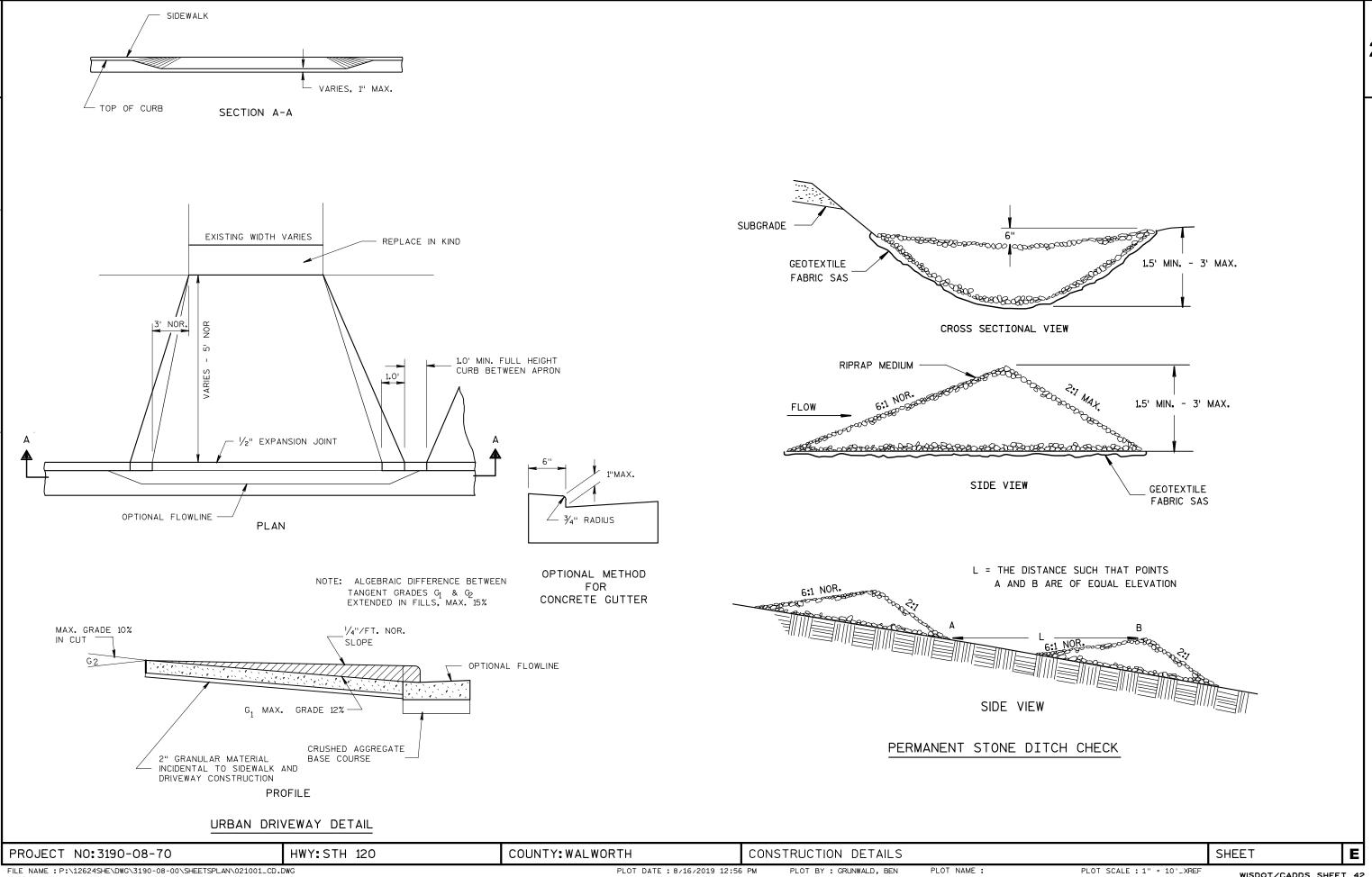


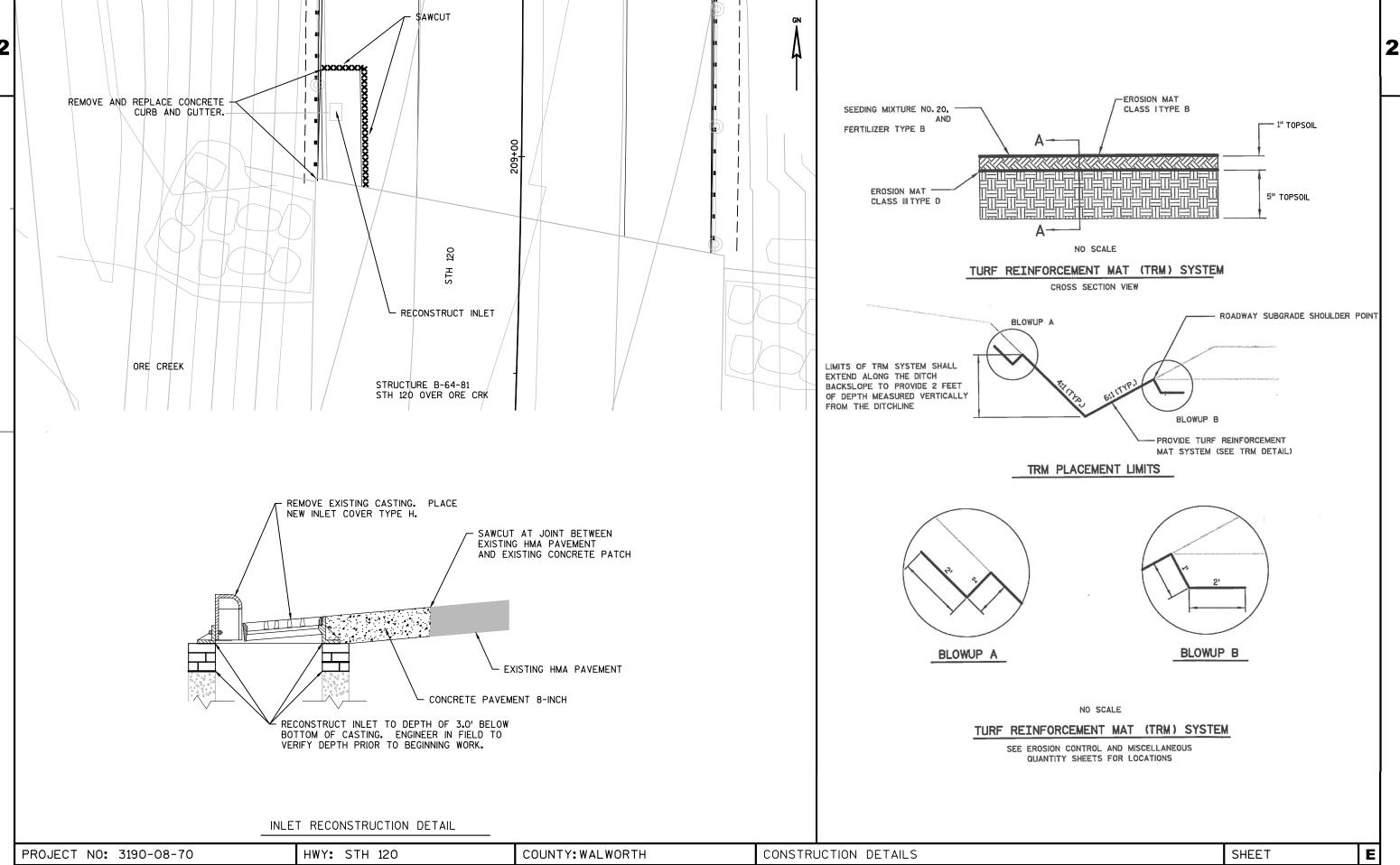
ANY ADDITIONAL BASE AGG. DENSE REQ'D. SHALL BE PAID UNDER ITEM - "BASE AGGREGATE DENSE 1 1/4-INCH"



PAVE DRIVEWAYS THAT ARE CURRENTLY PAVED OR THAT HAVE GRADES STEEPER THAN 8%. PLACE LOW POINT OF DRIVEWAY PROFILE OVER DITCH FLOW LINE.

PROJECT NO:3190-08-70 HWY: STH 120 COUNTY: WALWORTH CONSTRUCTION DETAILS SHEET





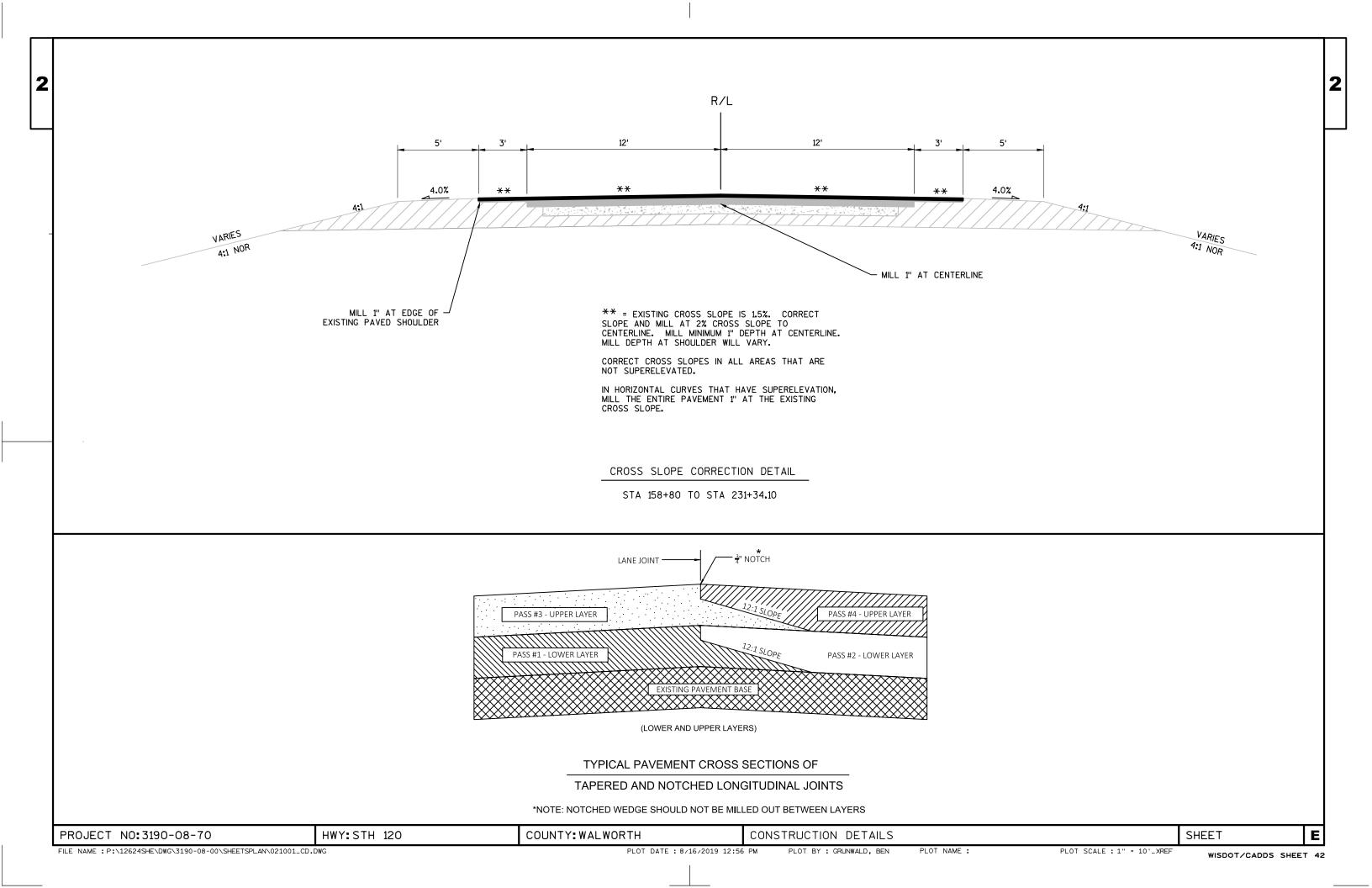
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PLOT DATE: 8/16/2019 12:56 PM

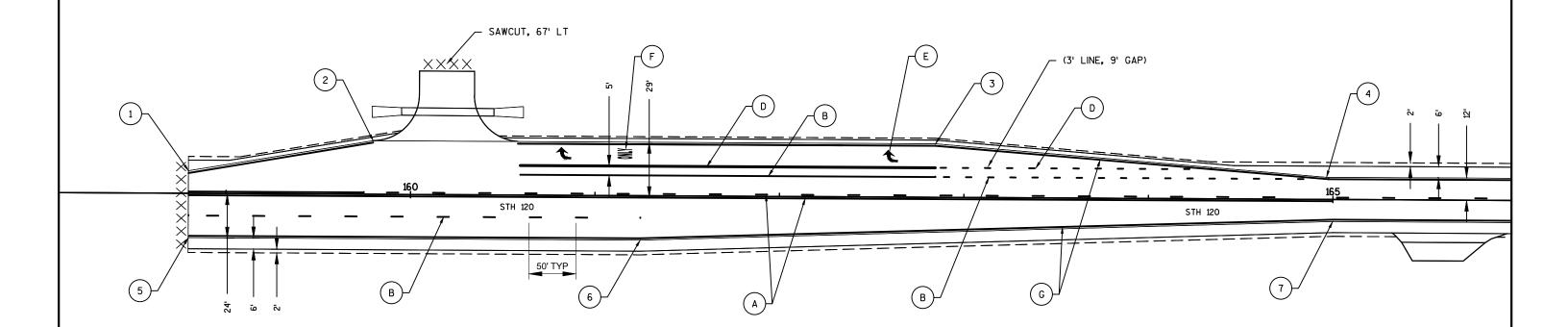
PLOT BY : GRUNWALD, BEN

PLOT NAME :

PLOT SCALE : 1" = 10'_XREF



SEE SECTION 648.3.2 OF THE STANDARD SPECIFICATION FOR ADDITIONAL INFORMATION ON LOCATING NO-PASSING ZONES.



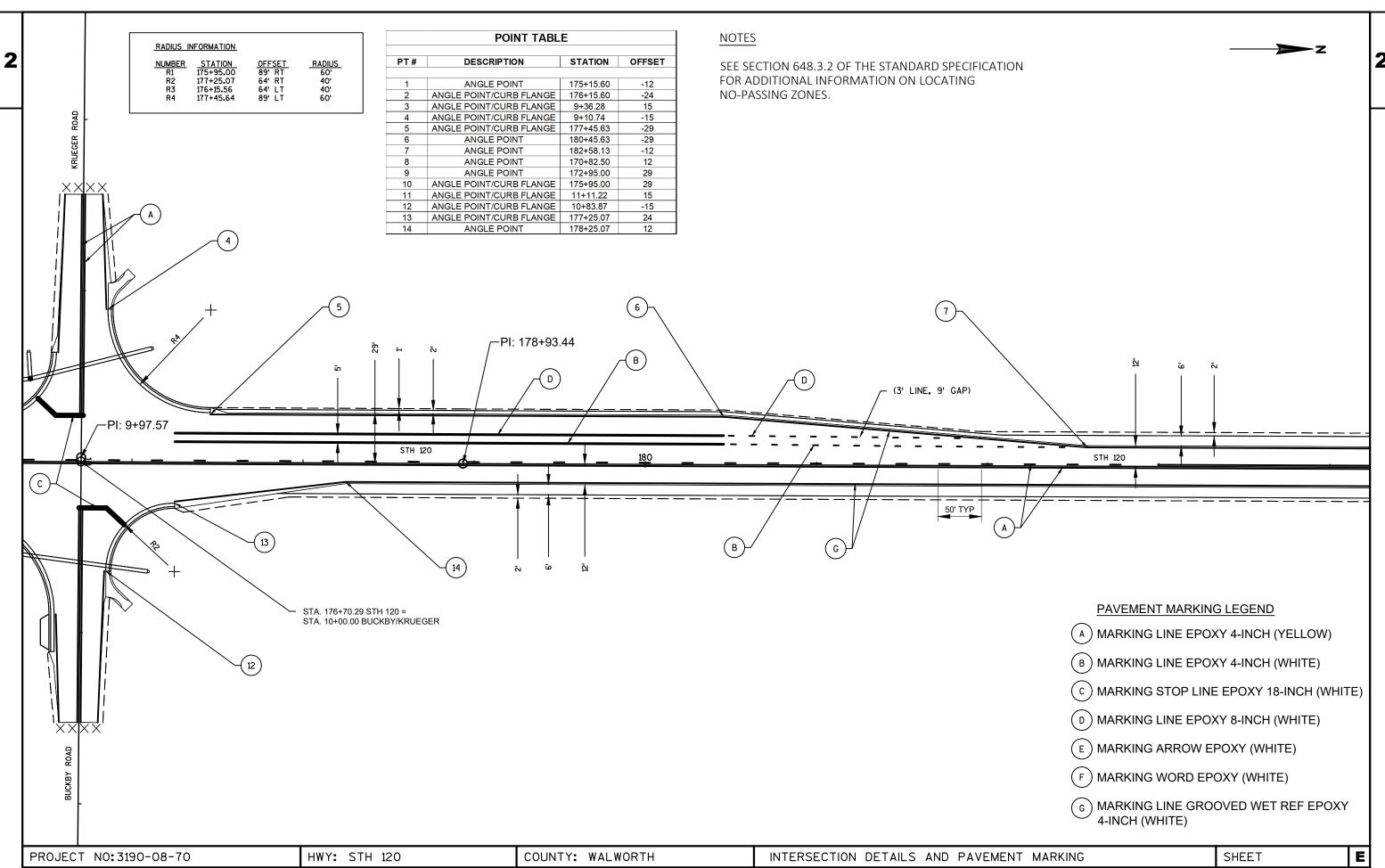
POINT TABLE					
PT#	DESCRIPTION	STATION	OFFSET		
1	ANGLE POINT	158+80.00	-12		
2	ANGLE POINT	159+80.00	-29		
3	ANGLE POINT	162+85.00	-29		
4	ANGLE POINT	164+97.50	-12		
5	ANGLE POINT	158+80.00	24		
6	ANGLE POINT	161+25.00	24		
7	ANGLE POINT	165+00.00	12		

PAVEMENT MARKING LEGEND

- (A) MARKING LINE EPOXY 4-INCH (YELLOW)
- (B) MARKING LINE EPOXY 4-INCH (WHITE)
- (c) MARKING STOP LINE EPOXY 18-INCH (WHITE)
- (D) MARKING LINE EPOXY 8-INCH (WHITE)
- (E) MARKING ARROW EPOXY (WHITE)
- F MARKING WORD EPOXY (WHITE)
- G MARKING LINE GROOVED WET REF EPOXY 4-INCH (WHITE)

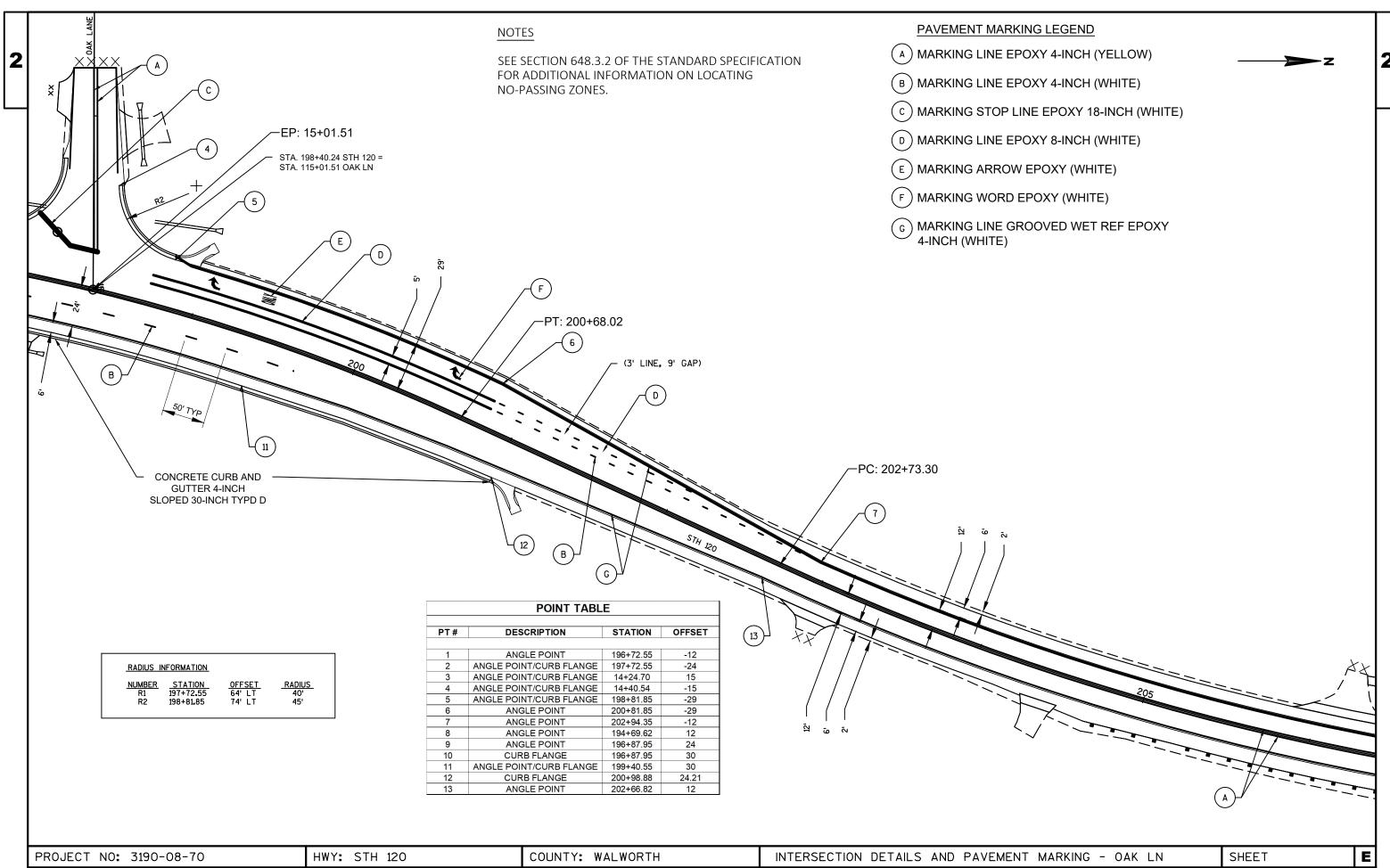
PROJECT NO:3190-08-70 HWY: STH 120 COUNTY: WALWORTH INTERSECTION DETAILS AND PAVEMENT MARKING - MT ZION CHURCH SHEET E

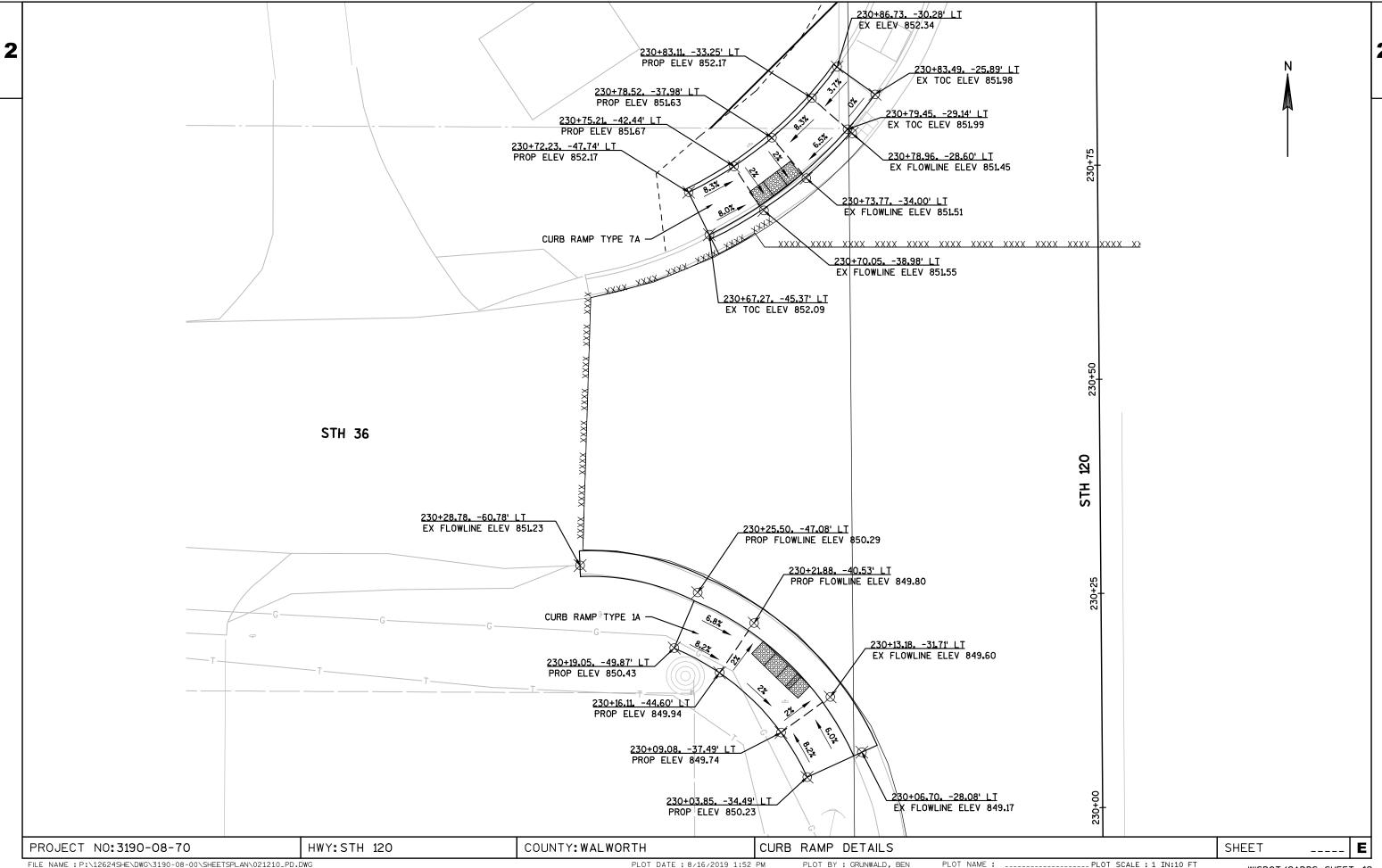
NOTES **POINT TABLE** RADIUS INFORMATION STATION OFFSET NUMBER R1 R2 R3 R4 RADIUS 60' 40' 40' 60' PT# DESCRIPTION SEE SECTION 648.3.2 OF THE STANDARD SPECIFICATION FOR ADDITIONAL INFORMATION ON LOCATING 177+25.07 176+15.56 64' RT 64' LT 89' LT ANGLE POINT 175+15.60 -12 NO-PASSING ZONES. ANGLE POINT/CURB FLANGE 176+15.60 -24 ANGLE POINT/CURB FLANGE 9+36.28 15 ANGLE POINT/CURB FLANGE 9+10.74 -15 ANGLE POINT/CURB FLANGE 177+45.63 -29 ANGLE POINT 180+45.63 -29 ANGLE POINT 182+58.13 -12 ANGLE POINT 12 170+82.50 ANGLE POINT 172+95.00 29 10 ANGLE POINT/CURB FLANGE 175+95.00 29 11 ANGLE POINT/CURB FLANGE 11+11.22 15 ANGLE POINT/CURB FLANGE -15 10+83.87 ANGLE POINT/CURB FLANGE 13 177+25.07 24 14 ANGLE POINT 178+25.07 175 STH 120 STH 120 (3' LINE, 9' GAP) -(в) PAVEMENT MARKING LEGEND (A) MARKING LINE EPOXY 4-INCH (YELLOW) (B) MARKING LINE EPOXY 4-INCH (WHITE) (c) MARKING STOP LINE EPOXY 18-INCH (WHITE) (D) MARKING LINE EPOXY 8-INCH (WHITE) (E) MARKING ARROW EPOXY (WHITE) (F) MARKING WORD EPOXY (WHITE) (c) MARKING LINE GROOVED WET REF EPOXY 4-INCH (WHITE) PROJECT NO: 3190-08-70 HWY: STH 120 INTERSECTION DETAILS AND PAVEMENT MARKING SHEET COUNTY: WALWORTH

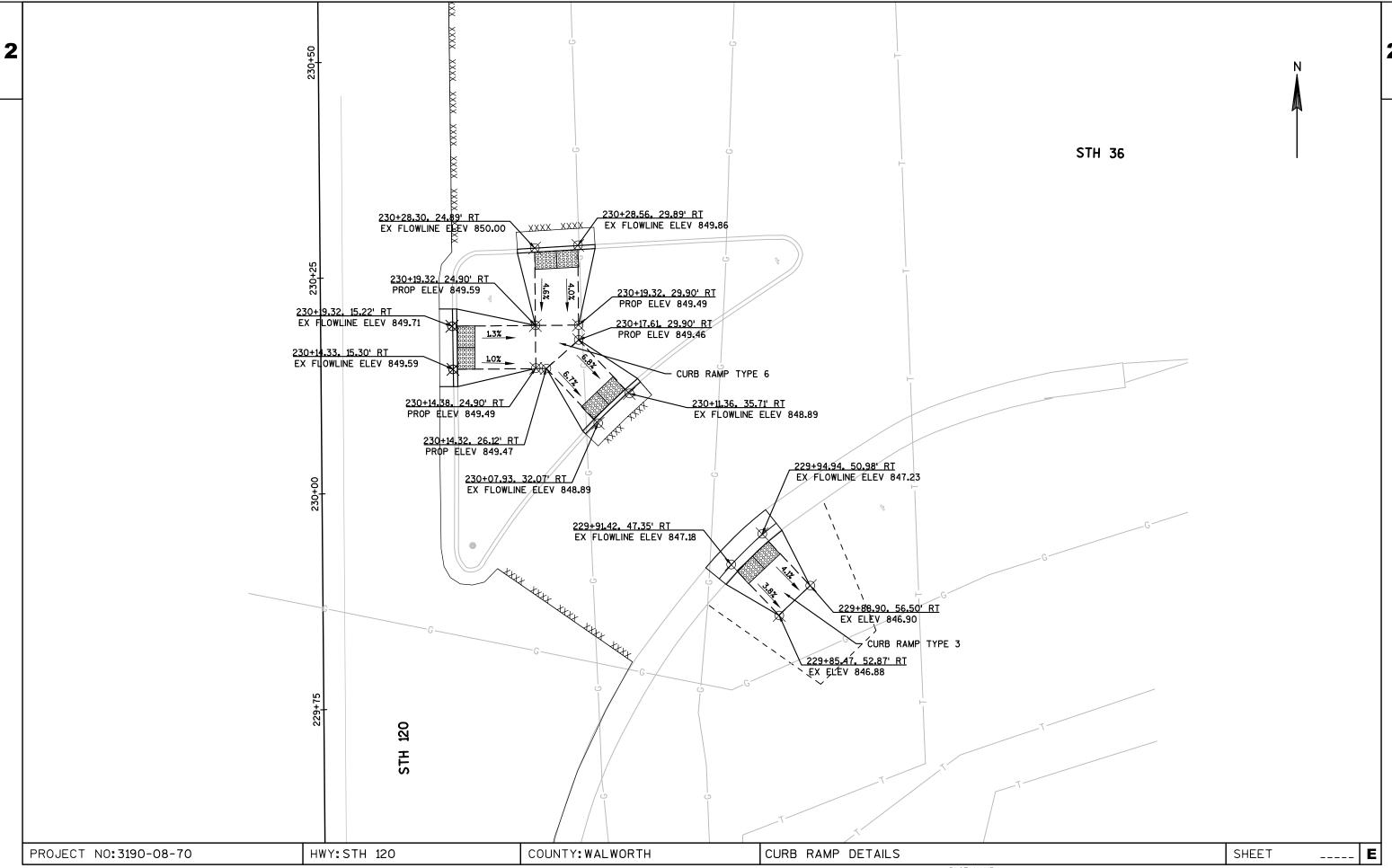


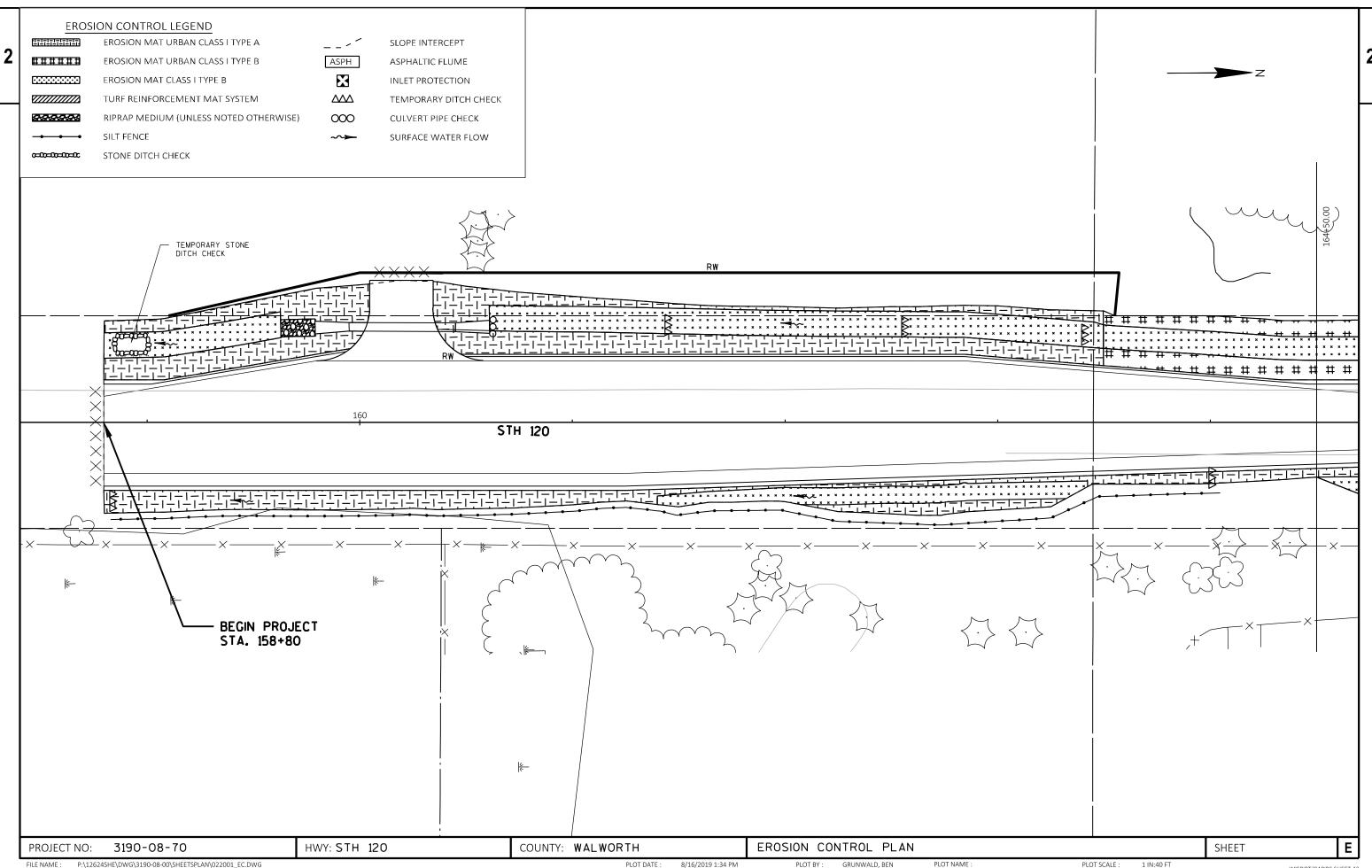
PAVEMENT MARKING LEGEND NOTES (A) MARKING LINE EPOXY 4-INCH (YELLOW) SEE SECTION 648.3.2 OF THE STANDARD SPECIFICATION FOR ADDITIONAL INFORMATION ON LOCATING (B) MARKING LINE EPOXY 4-INCH (WHITE) NO-PASSING ZONES. (c) MARKING STOP LINE EPOXY 18-INCH (WHITE) D MARKING LINE EPOXY 8-INCH (WHITE) (E) MARKING ARROW EPOXY (WHITE) (F) MARKING WORD EPOXY (WHITE) (c) MARKING LINE GROOVED WET REF EPOXY 4-INCH (WHITE) STA. 198+40.24 STH 120 = STA. 115+01.51 OAK LN PC: 195+57.52-50' TYP 195 STH 120 Z e z POINT TABLE DESCRIPTION OFFSET PT# STATION CONCRETE CURB AND ANGLE POINT 196+72.55 -12 **GUTTER 4-INCH** ANGLE POINT/CURB FLANGE RADIUS INFORMATION 197+72.55 -24 SLOPED 30-INCH TYPD D ANGLE POINT/CURB FLANGE 14+24.70 15 <u>OFFSET</u> 64' LT 74' LT RADIUS 40' 45' ANGLE POINT/CURB FLANGE 14+40.54 -15 ANGLE POINT/CURB FLANGE 198+81.85 198+81.85 ANGLE POINT 200+81.85 -29 ANGLE POINT 202+94.35 -12 ANGLE POINT 8 194+69.62 12 ANGLE POINT 24 9 196+87.95 10 **CURB FLANGE** 196+87.95 30 11 ANGLE POINT/CURB FLANGE 199+40.55 30 12 **CURB FLANGE** 200+98.88 13 ANGLE POINT 202+66.82 12 PROJECT NO: 3190-08-70 HWY: STH 120 COUNTY: WALWORTH SHEET E INTERSECTION DETAILS AND PAVEMENT MARKING - OAK LN

FILE NAME : P:\12624SHE\DWG\3190-08-00\SHEETSPLAN\021101_ID.DWG LAYOUT NAME - 021101_ID - 021104



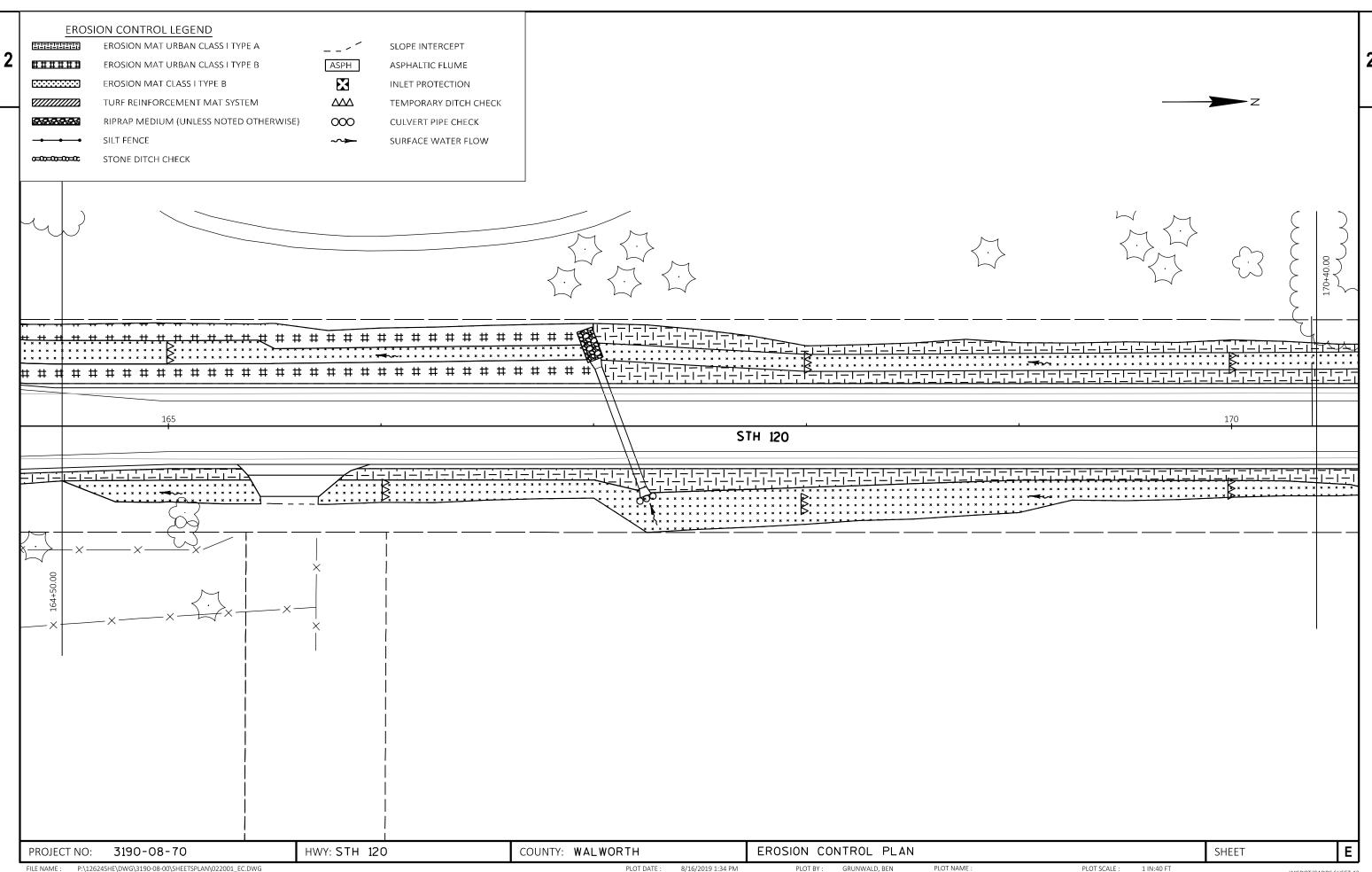






PLOT NAME :

PLOT SCALE :



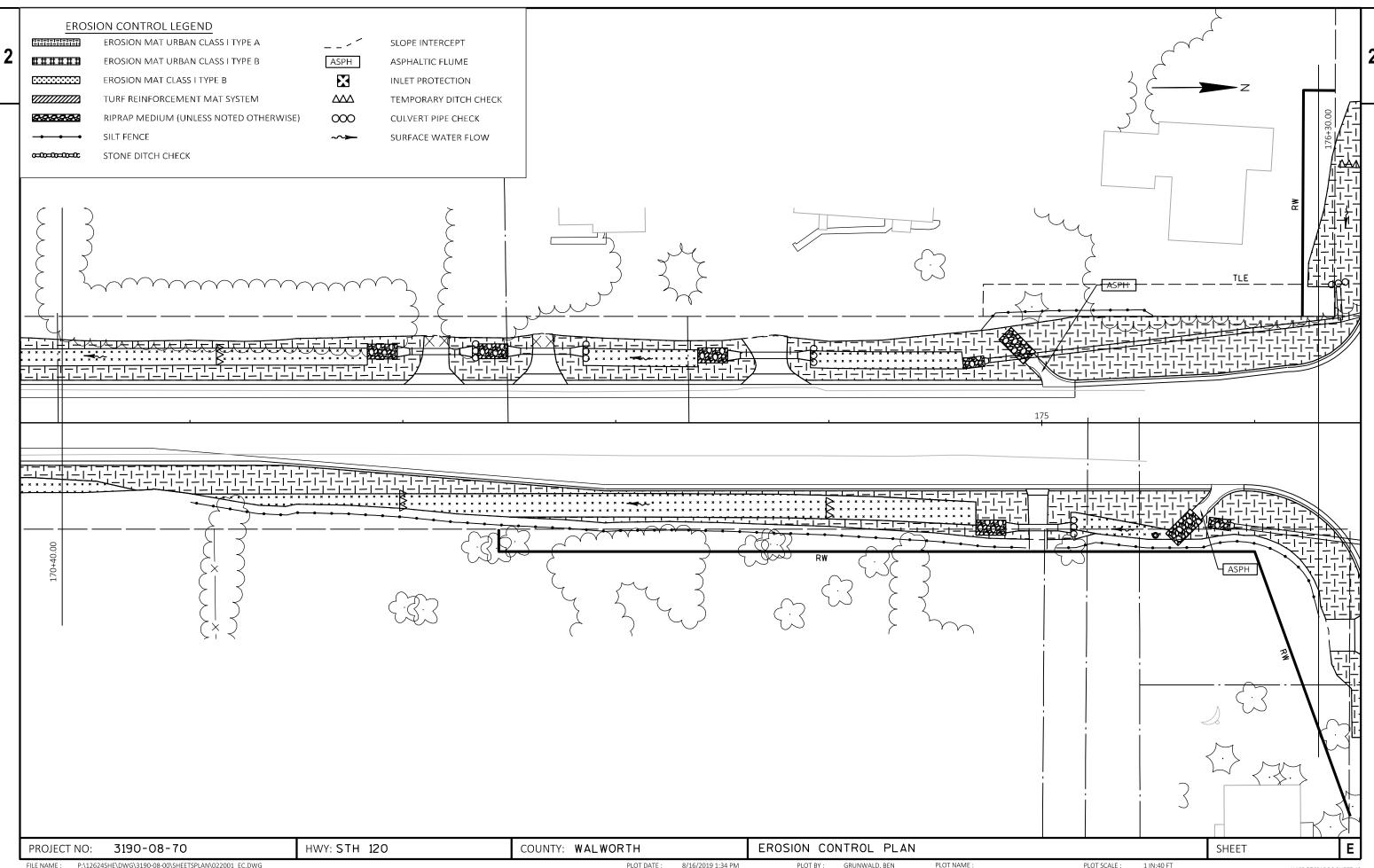
P:\12624SHE\DWG\3190-08-00\SHEETSPLAN\022001_EC.DWG

PLOT DATE: 8/16/2019 1:34 PM

PLOT BY: GRUNWALD, BEN

PLOT NAME :

1 IN:40 FT



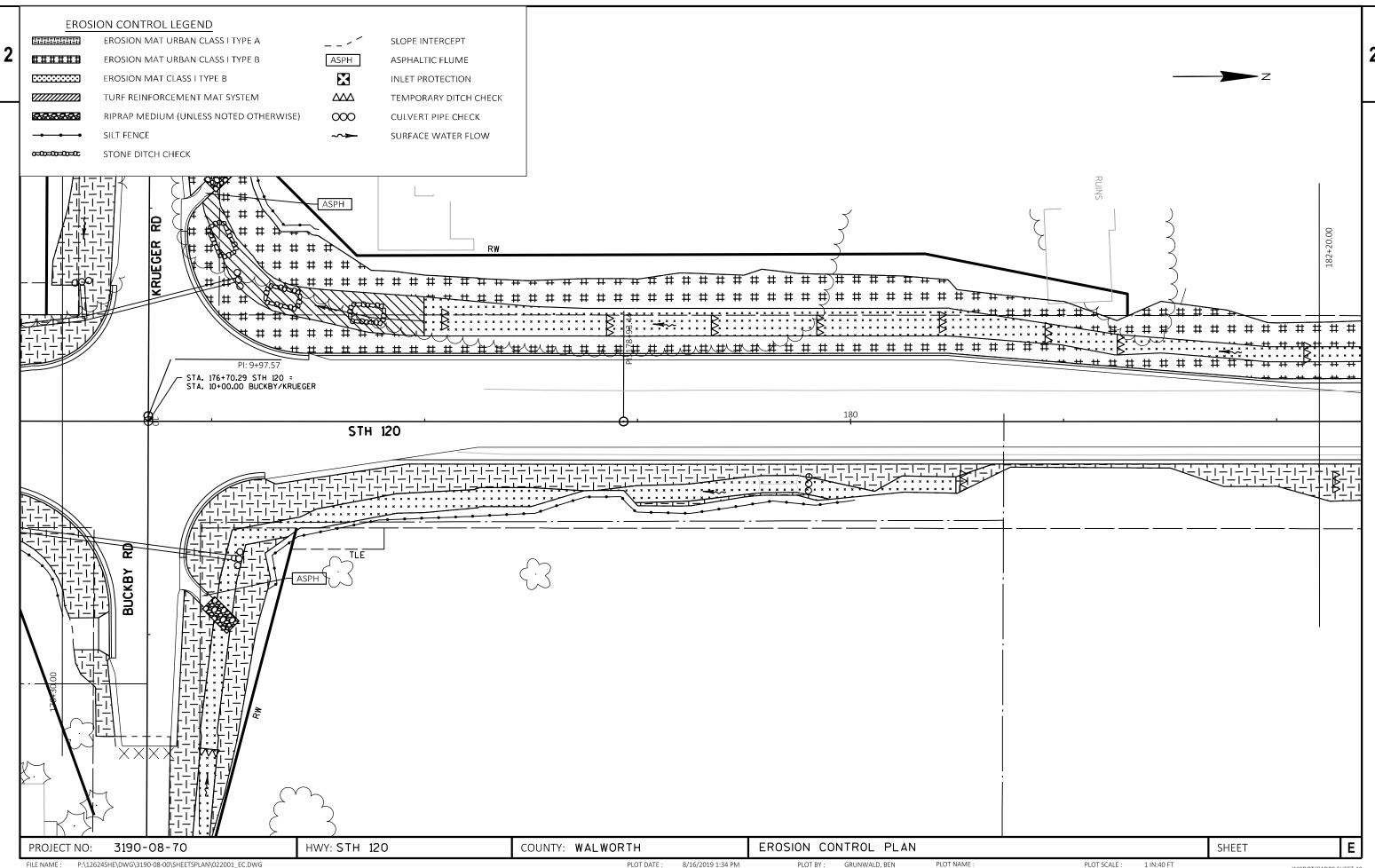
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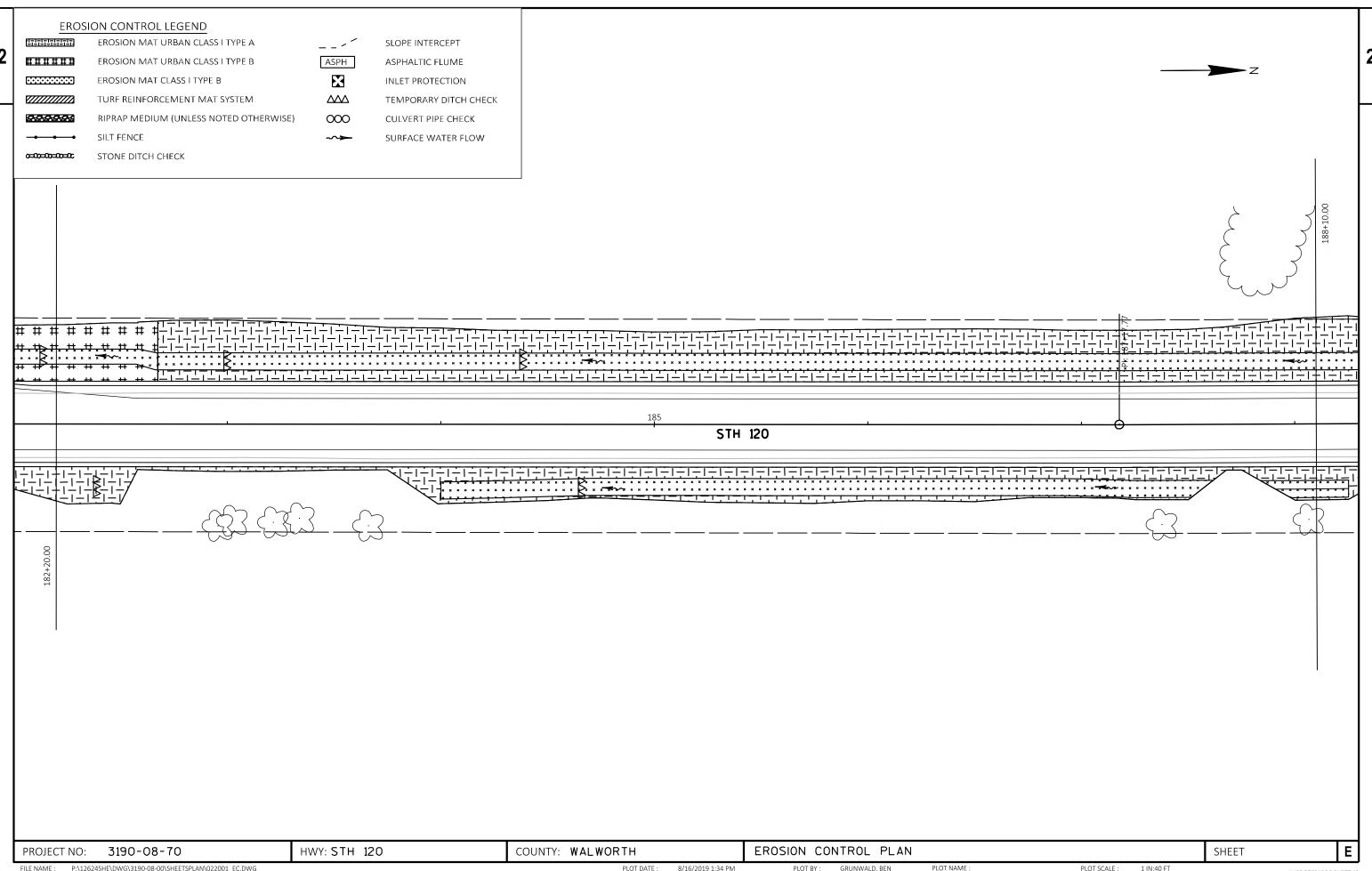
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PLOT BY: GRUNWALD, BEN

PLOT NAME :

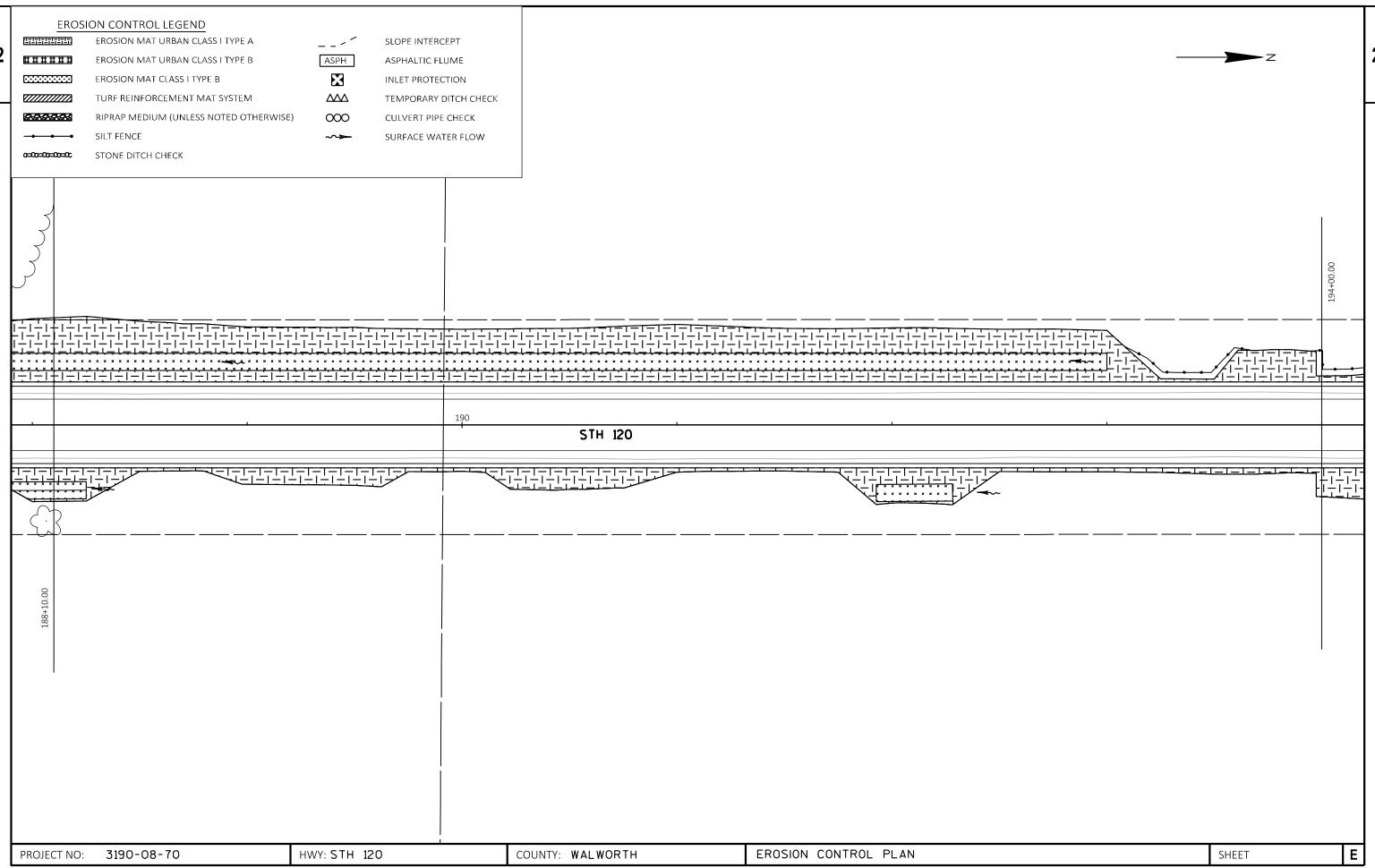
PLOT SCALE : 1 IN:40 FT





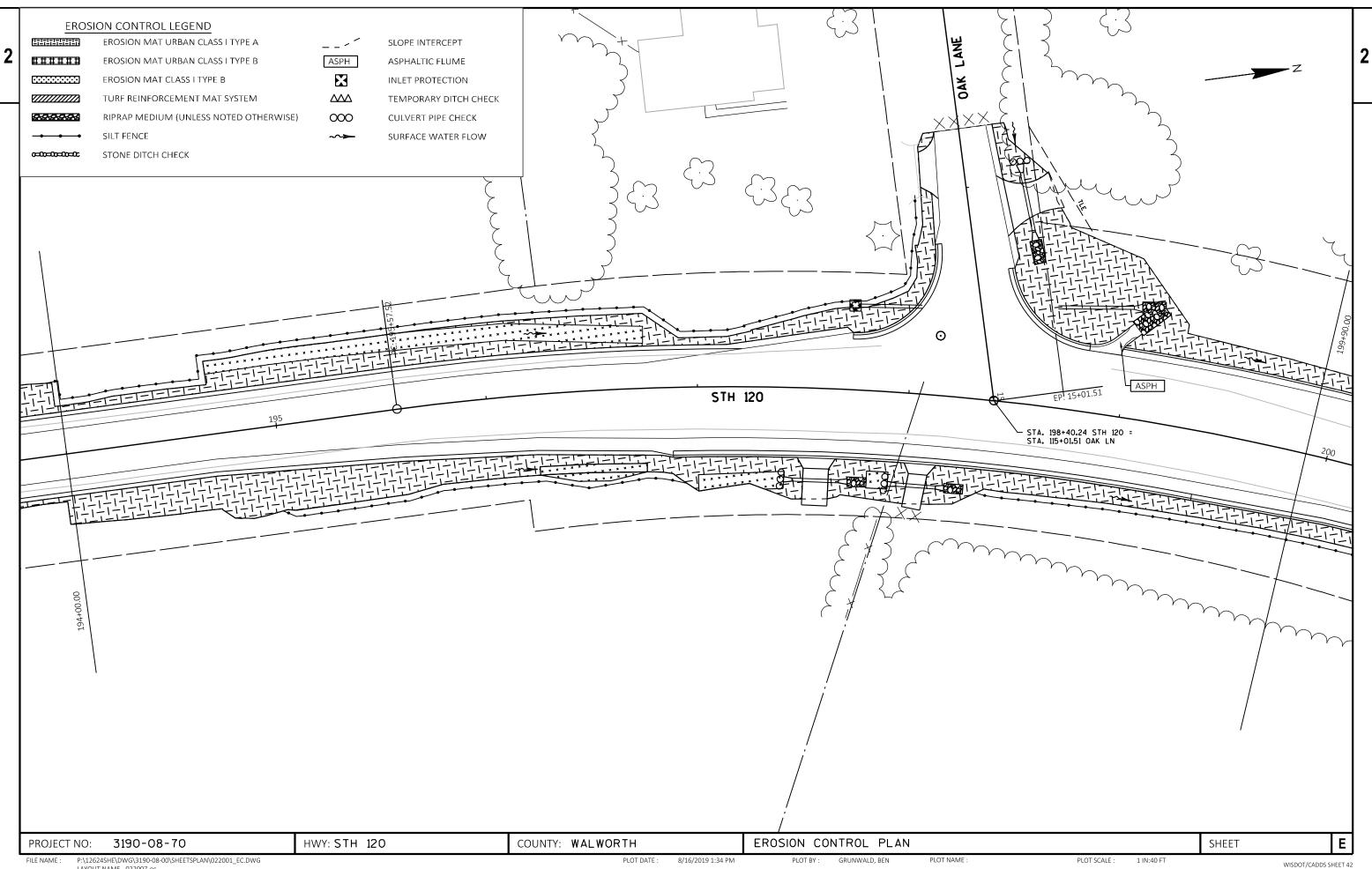
EXAMPLE : P:\12624SHE\DWG\3190-08-00\SHEETSPLAN\022001_EC.DWG PLOT SCALE : 1 IN:40 FT WISDOT/CADDS SHEET 42

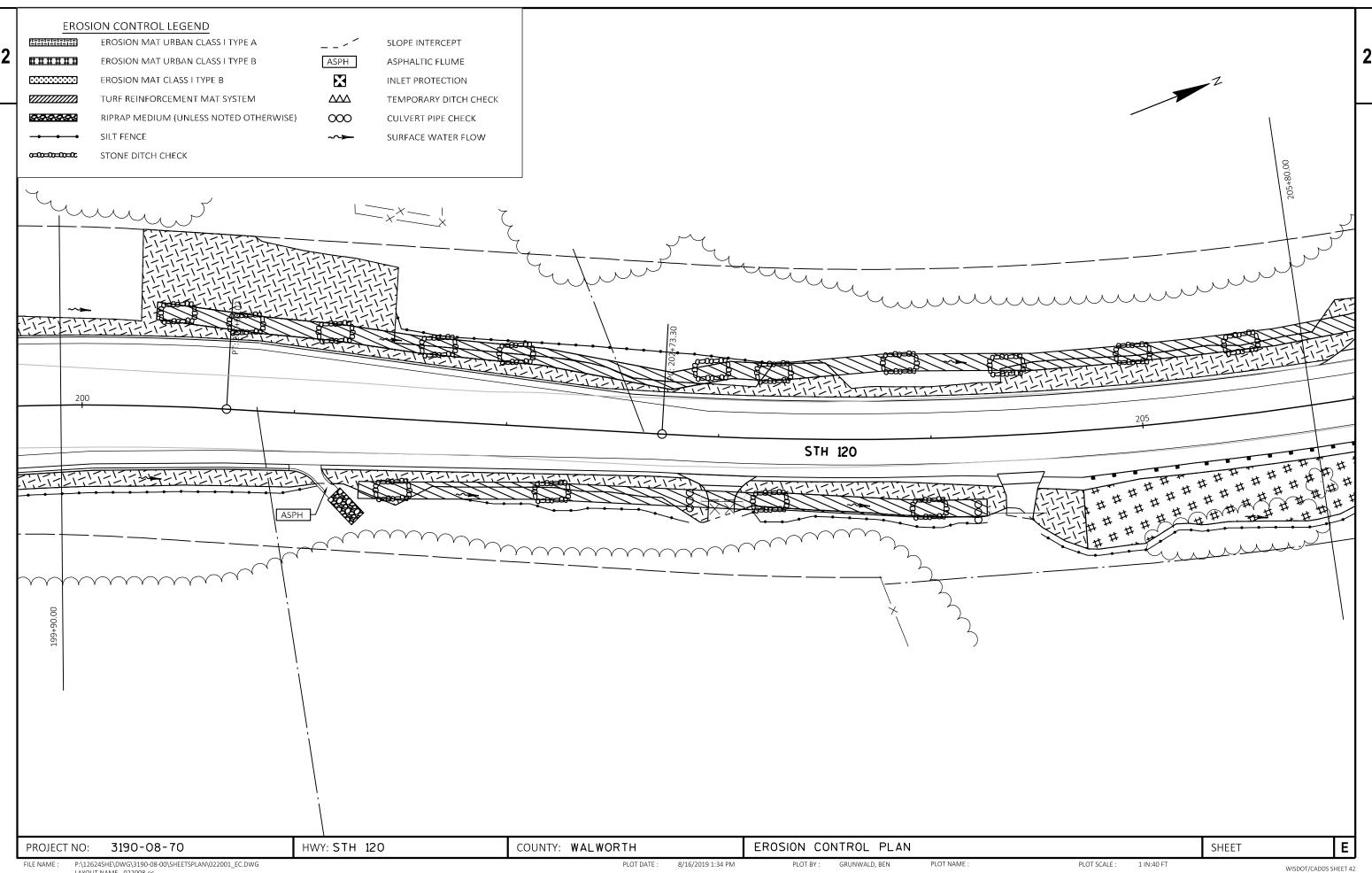
LAYOUT NAME - 022005-ec

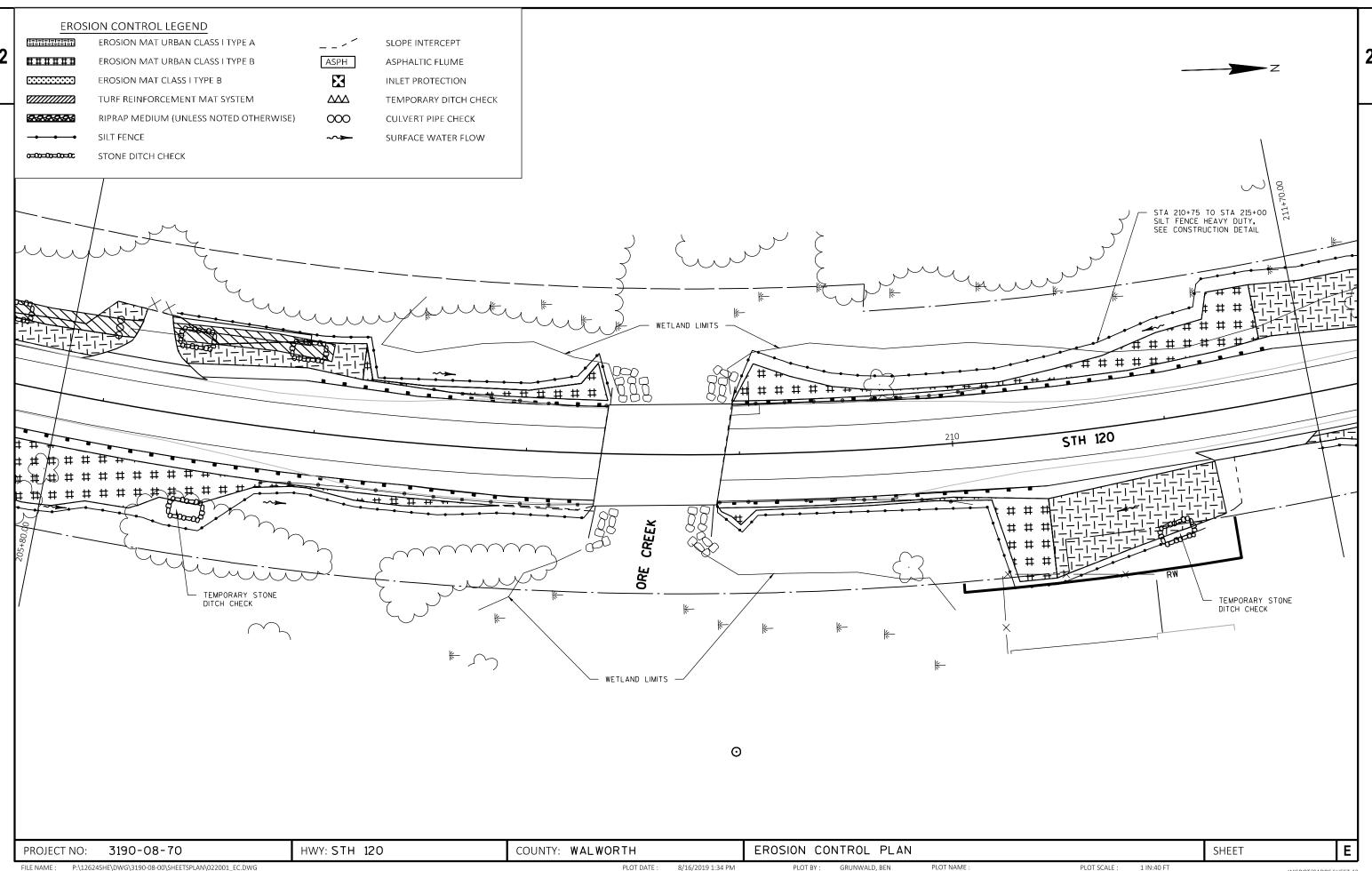


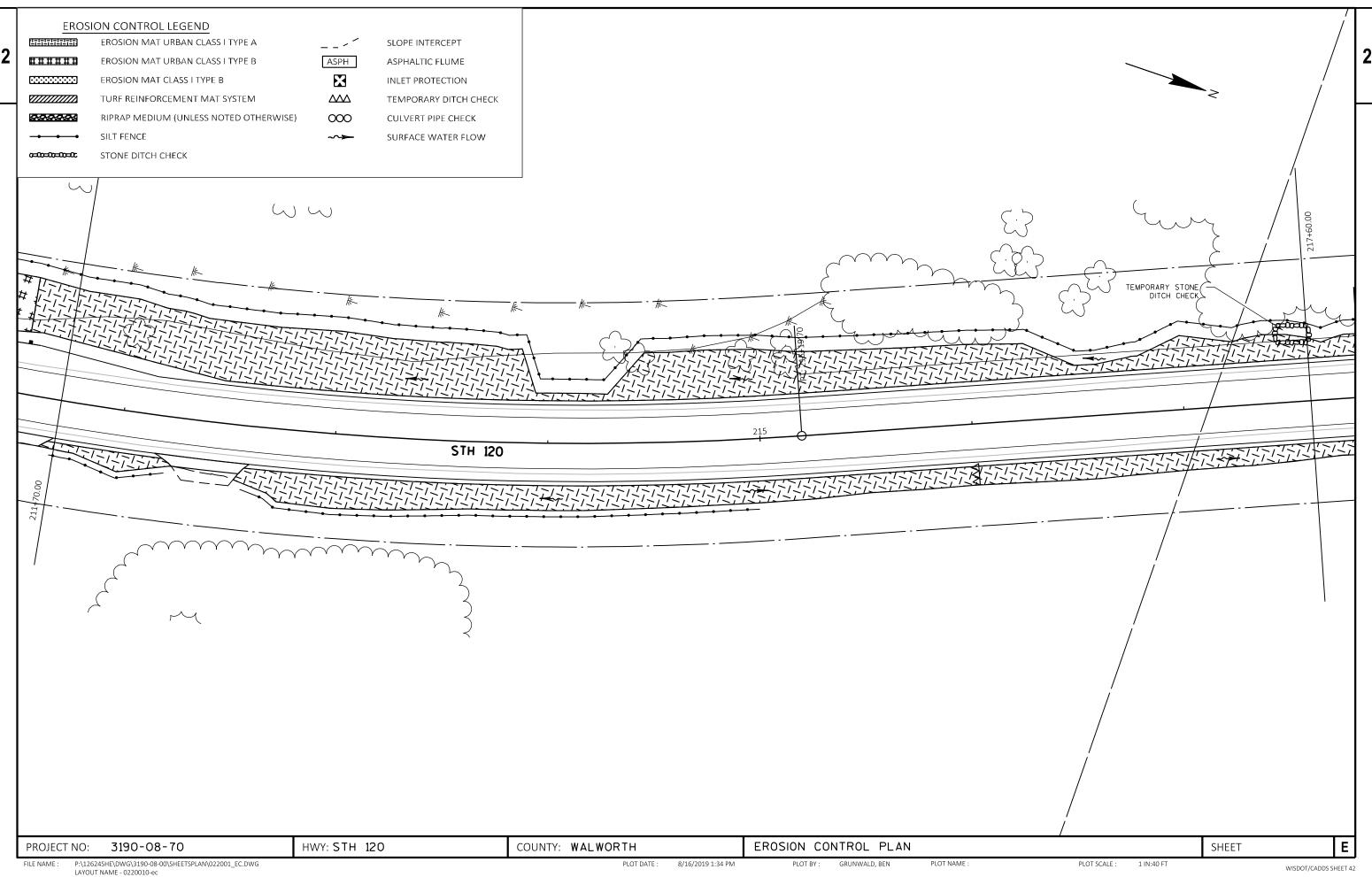
FILE NAME : P:\12624SHE\DWG\3190-08-00\SHEETSPLAN\022001_EC.DWG PLOT DATE : 8/16/2019 1:34 PM PLOT BY : GRUNWALD, BEN PLOT NAME : 1 IN:40 FT WISDOT/CADDS SHEET 42

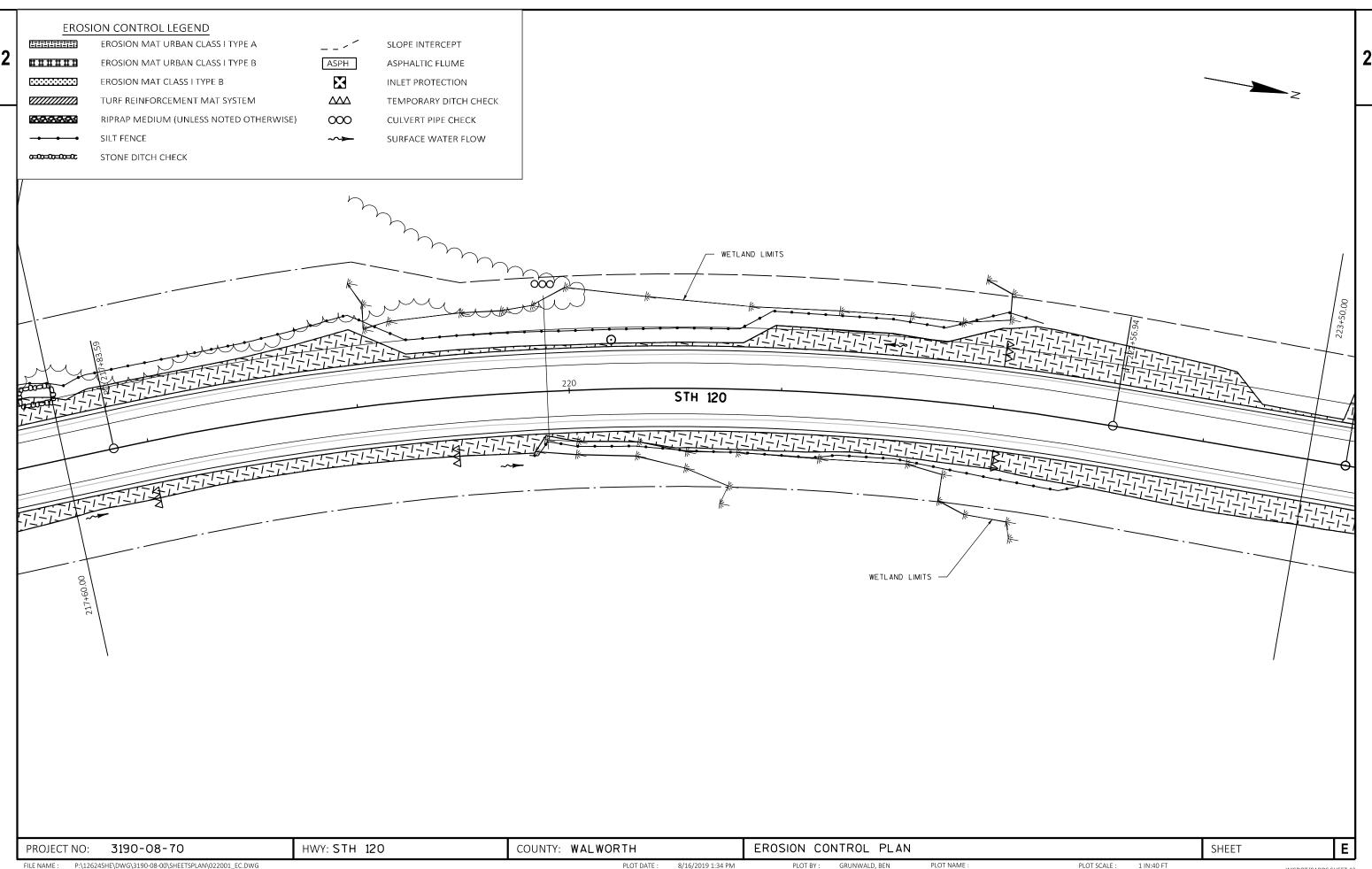
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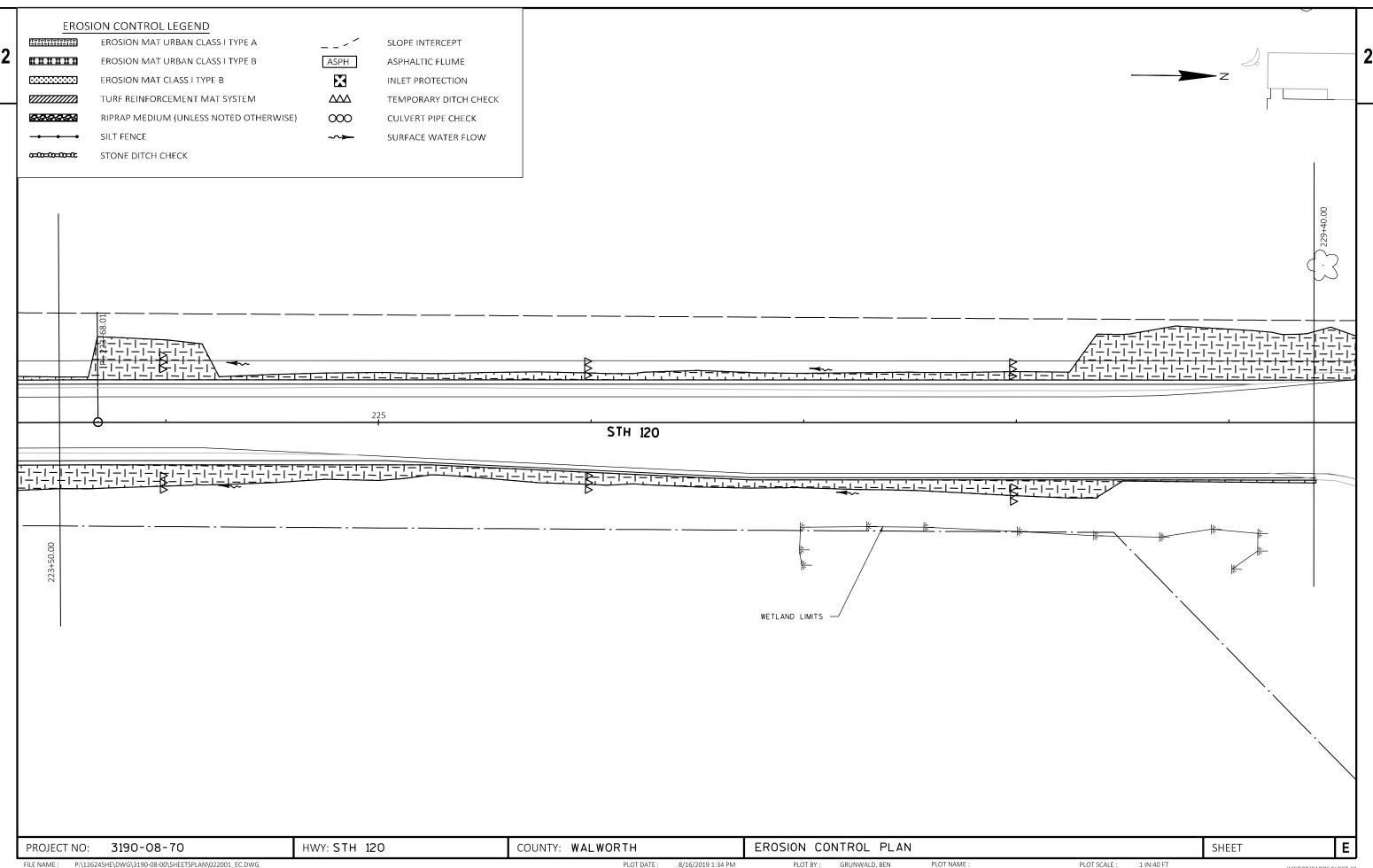










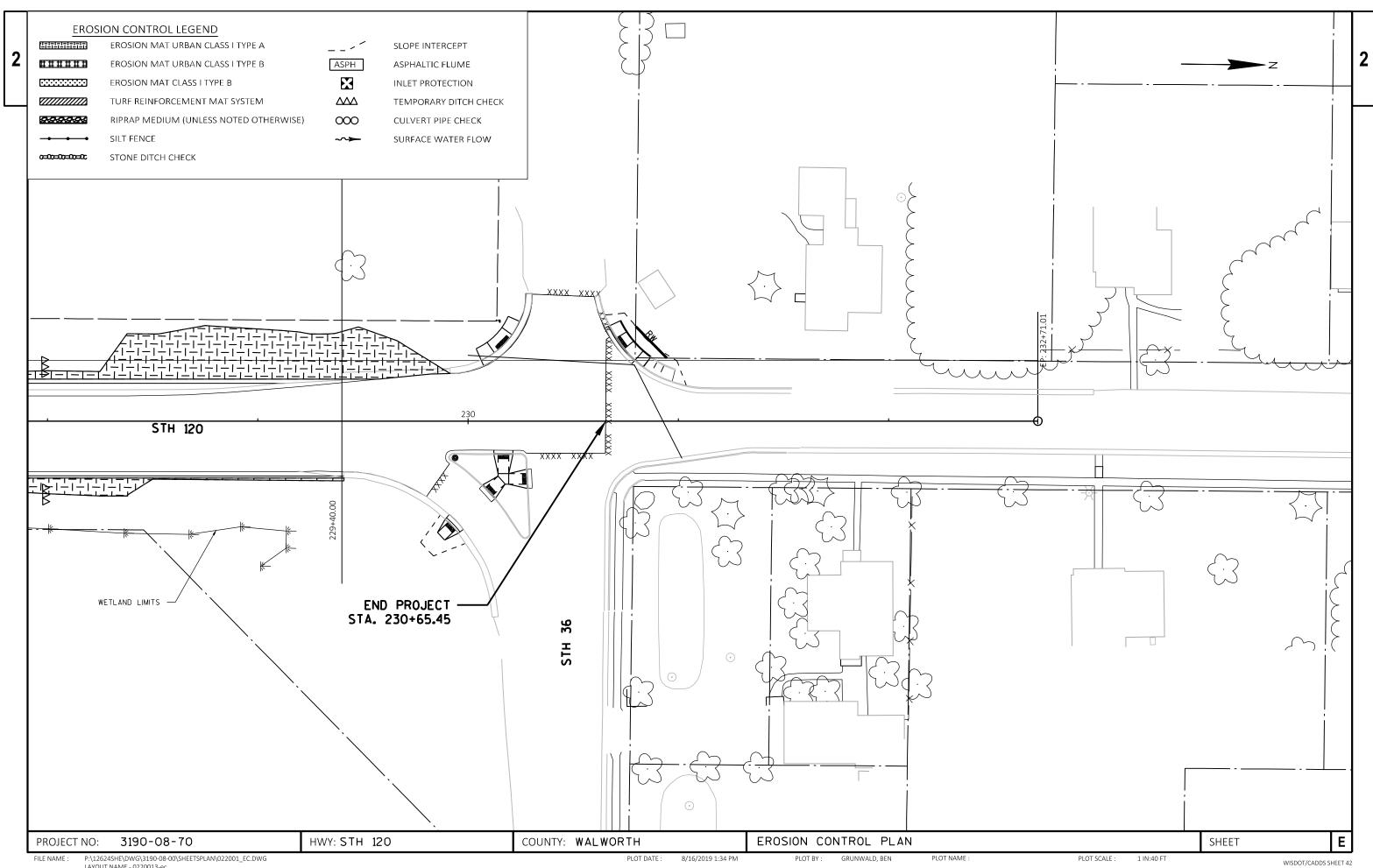


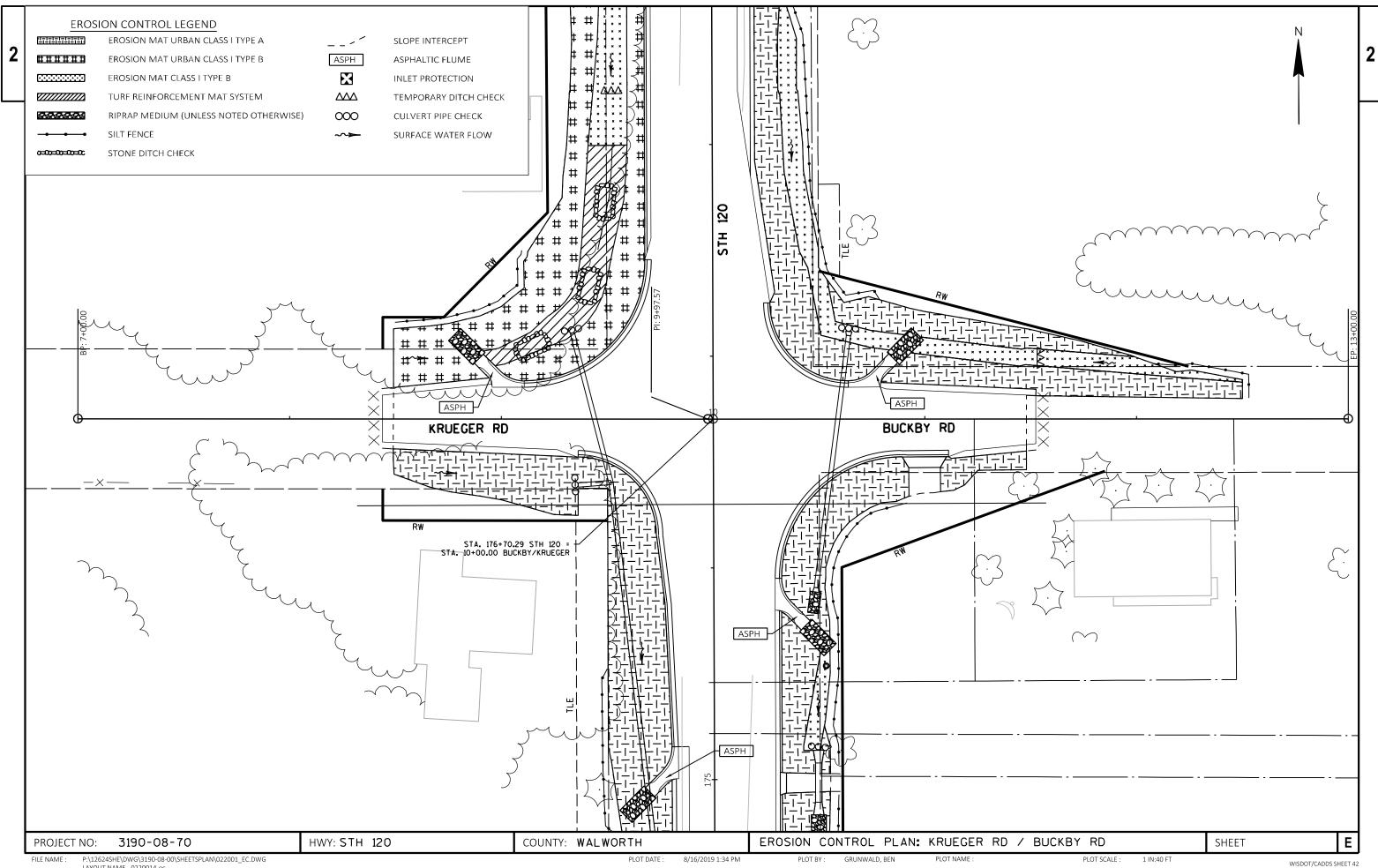
PLOT DATE: 8/16/2019 1:34 PM

PLOT BY: GRUNWALD, BEN

PLOT NAME :

PLOT SCALE :





TYPE II ALUMINUM SIGNS REMOVED UNDER THE CONTRACT SHALL BE DELIVERED TO THE COUNTY SIGN SHOP, CONTACT THE FOLLOWING INDIVIDUAL AT THE SIGN SHOP FOR DISTRIBUTION COUNTY LOCATION. SIGNING COORDINATOR COUNTY(S) PHONE#

DENNIS NEWTON MILWAUKEE, RACINE

KENOSHA, WASHINGTON, OZAUKEE WALWORTH, WAUKESHA 414-750-2427 414-750-1682 JENNY BUCKETT CHUCK SALDIVAR

SIGNS SHALL BE CAREFULLY REMOVED FROM SIGN SUPPORTS. THE SIGNS SHALL BE PALLETIZED FOR HANDLING WITH A FORKLIFT (SEE STANDARD SPEC 638.3.4). THE REGIONAL SIGN SHOP (414-266-1165) SHALL BE NOTIFIED THREE WORKING DAYS PRIOR TO DELIVERY OF THE SIGNS.

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

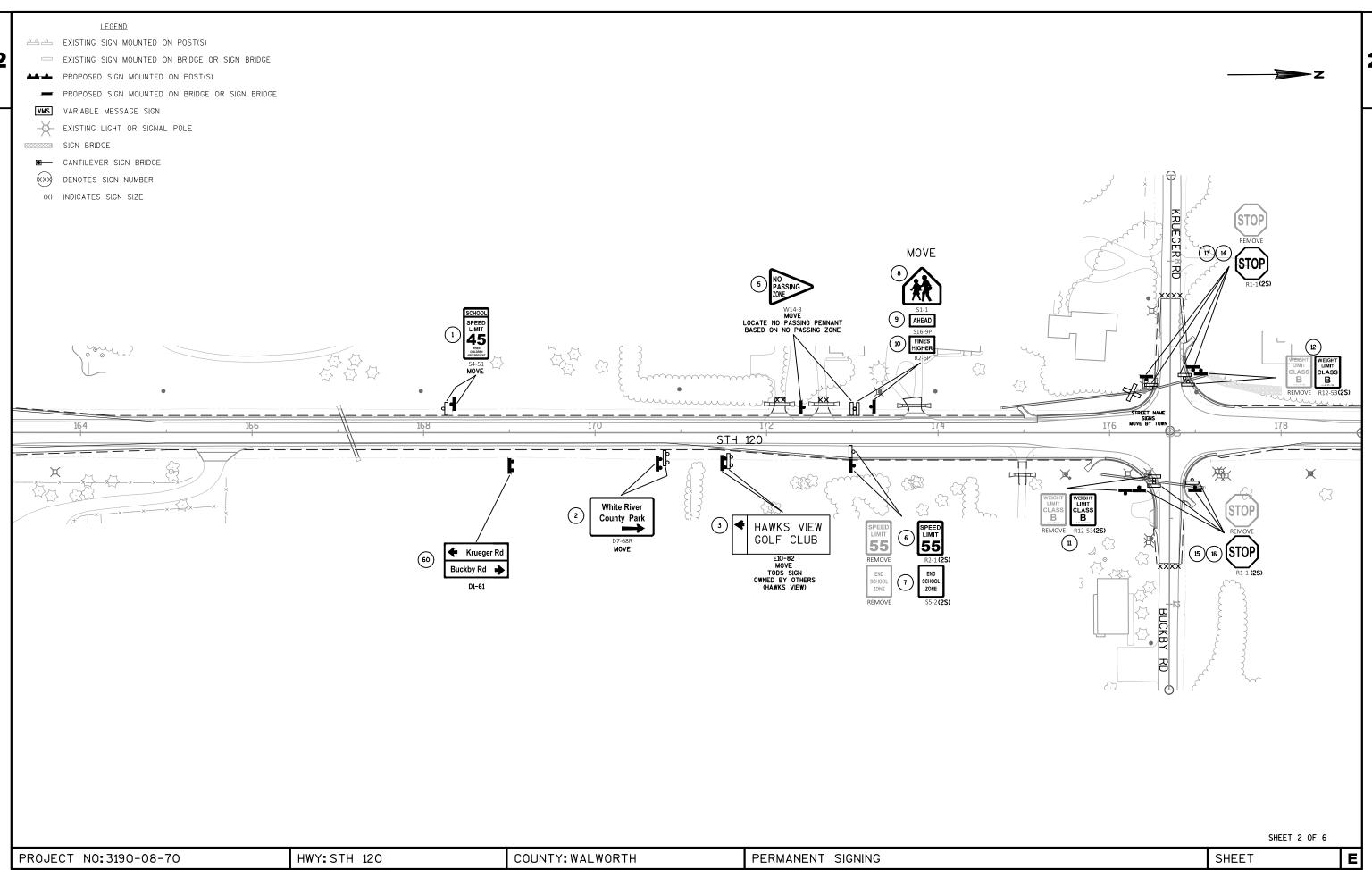
WOOD POST SIZES, FOR TYPE II SIGNS ARE ESTIMATED LENGTHS AND THE ACTUAL LENGTH WILL BE DETERMINED IN

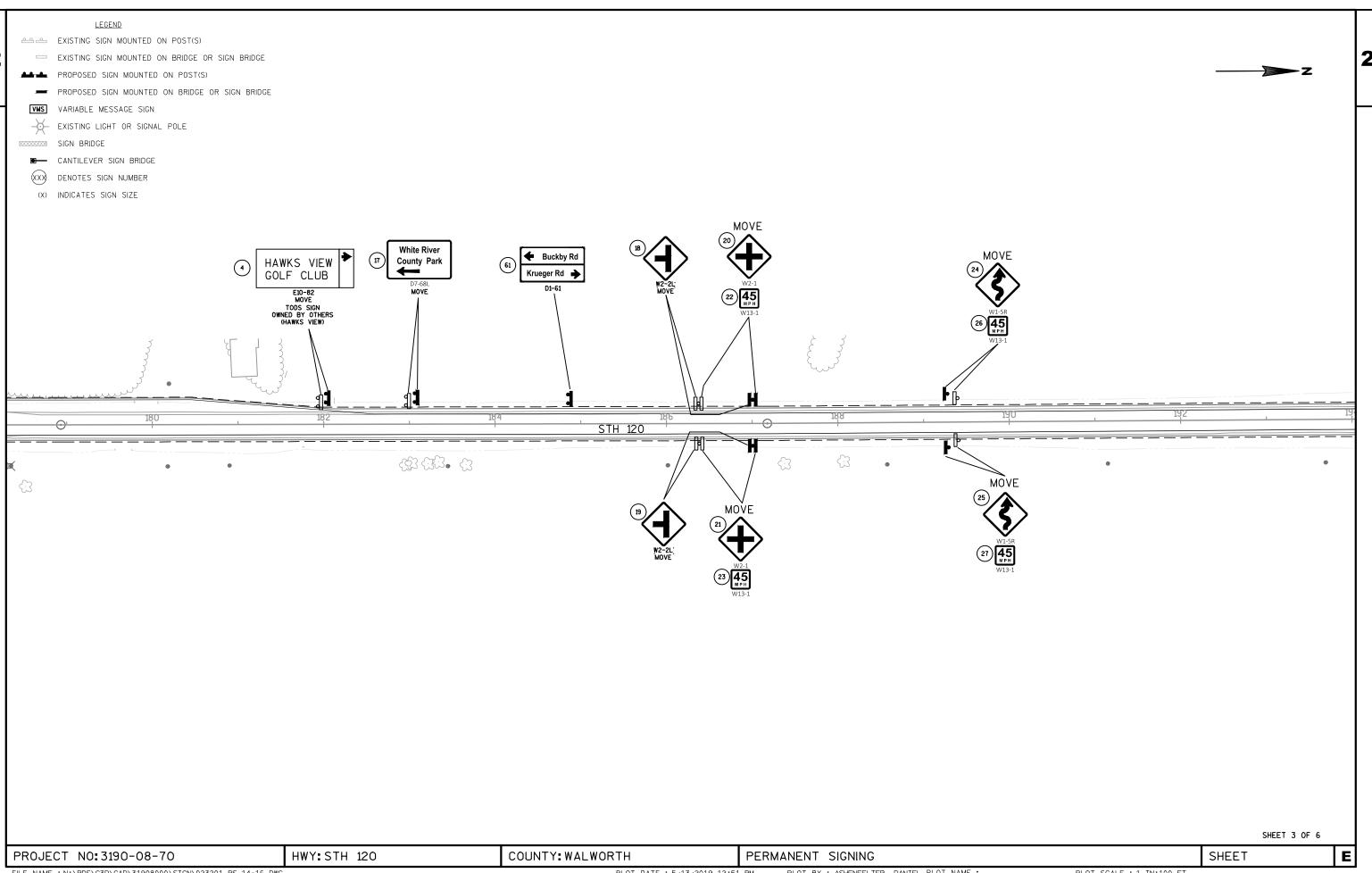
STREET NAME SIGNS ARE PROPERTY OF THE MUNICIPALITY (CITY, VILLAGE OR TOWN). THE MUNICIPALITY SHALL BE CONTACTED TO REMOVE THEIR STREET NAME SIGNS PRIOR TO CONSTRUCTION AND IT IS THEIR RESPONSIBILITY TO REINSTALL THE OLD SIGNS OR REPLACE THEM FOLLOWING CONSTRUCTION. WISDOT DOES NOT FURNISH OR INSTALL STREET NAME SIGNS. THE STREET NAME SIGNS SHALL NOT BE PLACED ON TOP OF THE STOP SIGNS.

LOCATE NO PASSING PENNANTS BASED ON ESTABLISHING NO PASSING ZONES PAY ITEM. PLACE SIGNS BASED ON WHERE THE PAVEMENT MARKING FOR NO PASSING ZONES BEGIN.

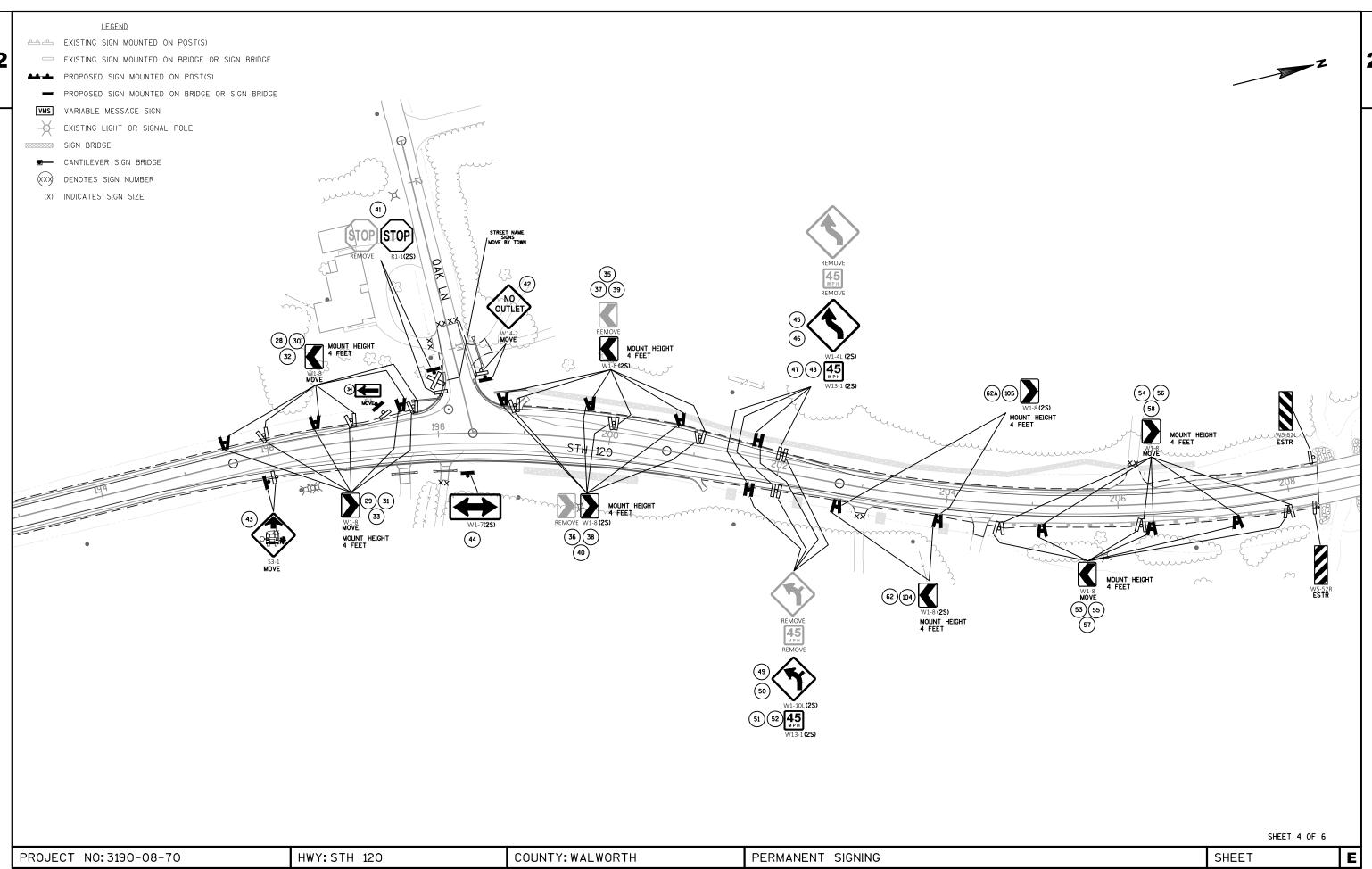
COUNTY: WALWORTH PROJECT NO:3190-08-70 HWY: STH 120 PERMANENT SIGNING SHEET E

SHEET 1 OF 6

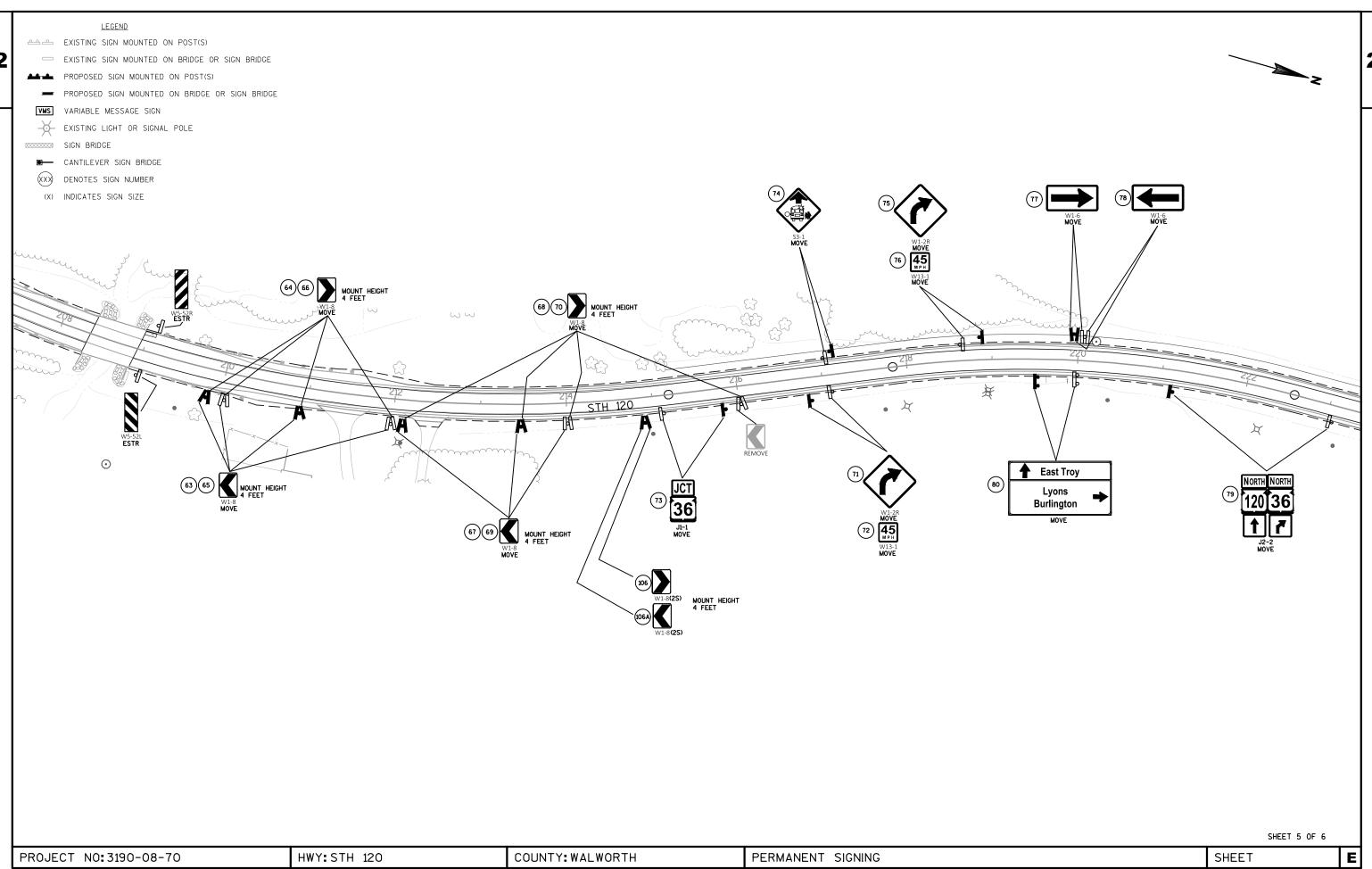




FILE NAME : N:\PDS\C3D\CAD\31908000\SIGN\023201_PS_14-16.DWG LAYOUT NAME - 023203_PS



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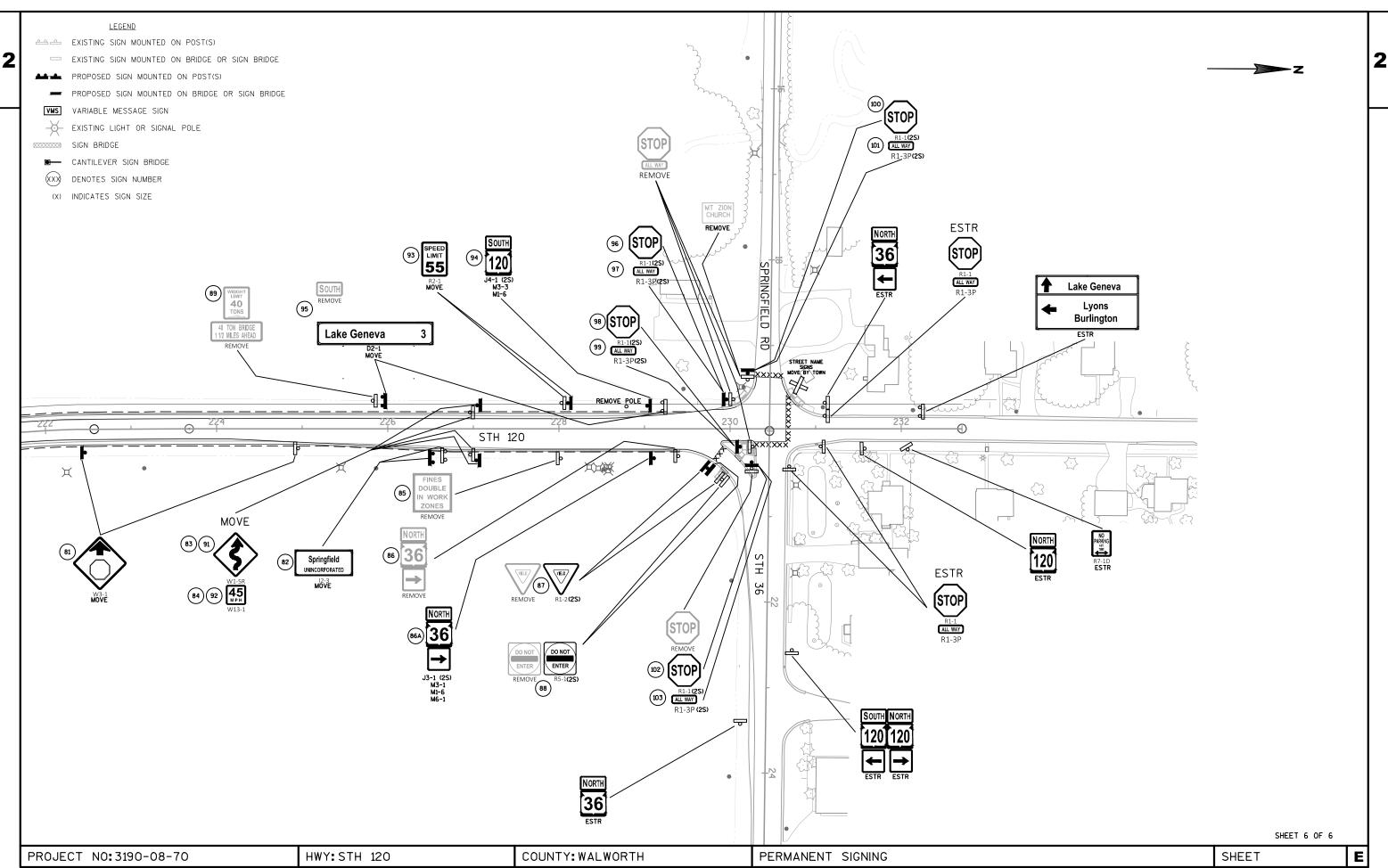


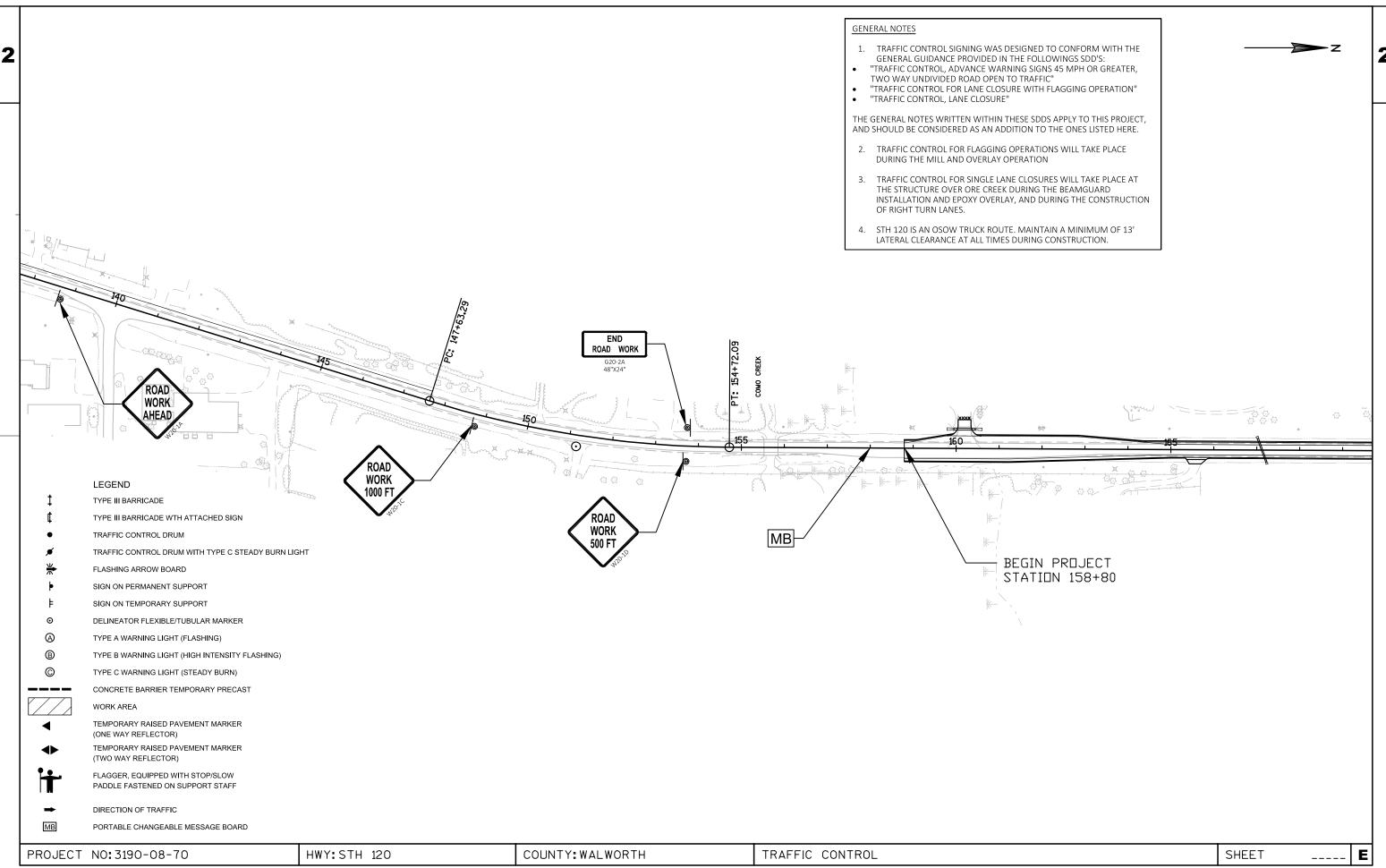
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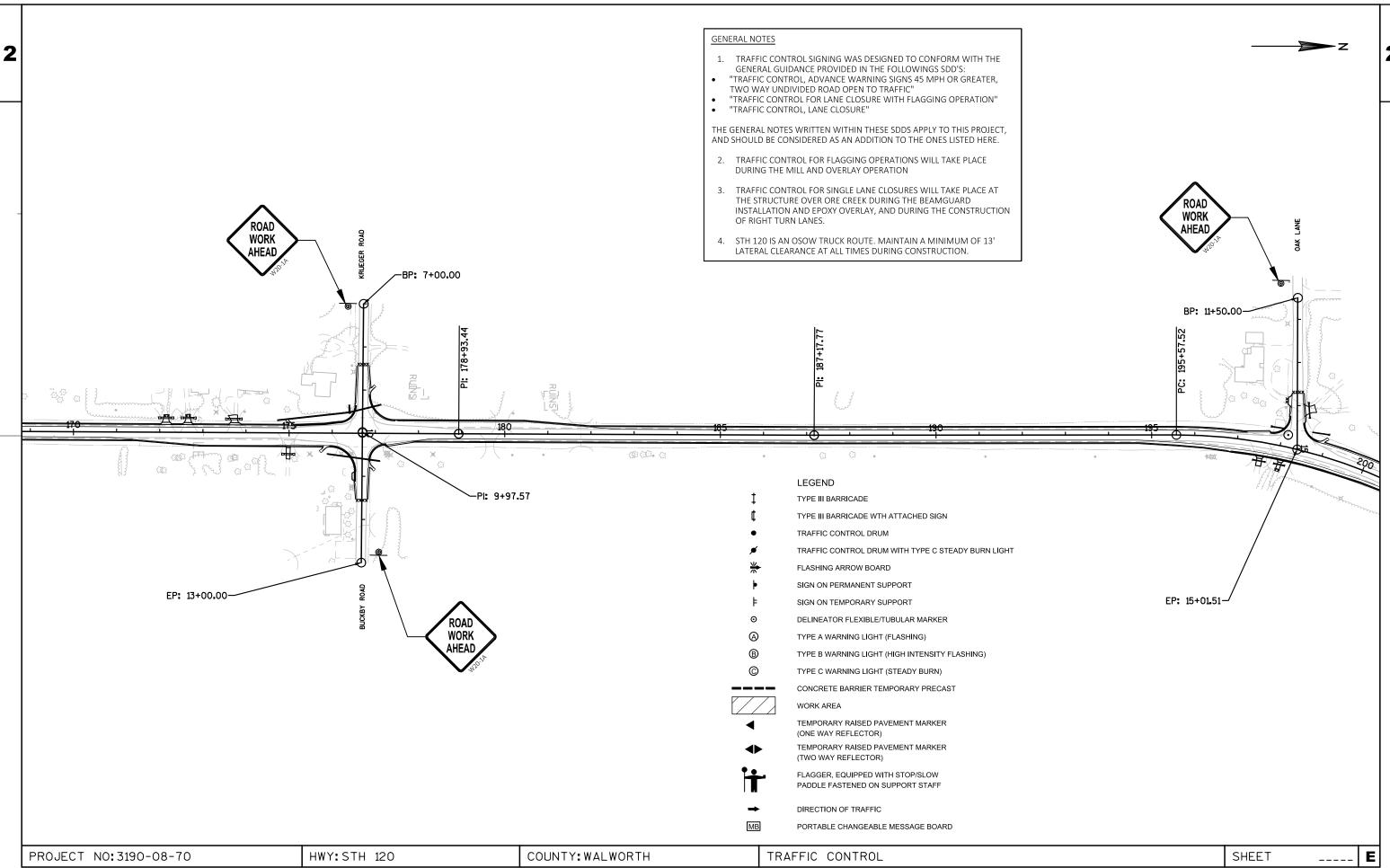
PLOT DATE : 5/13/2019 12:51 PM

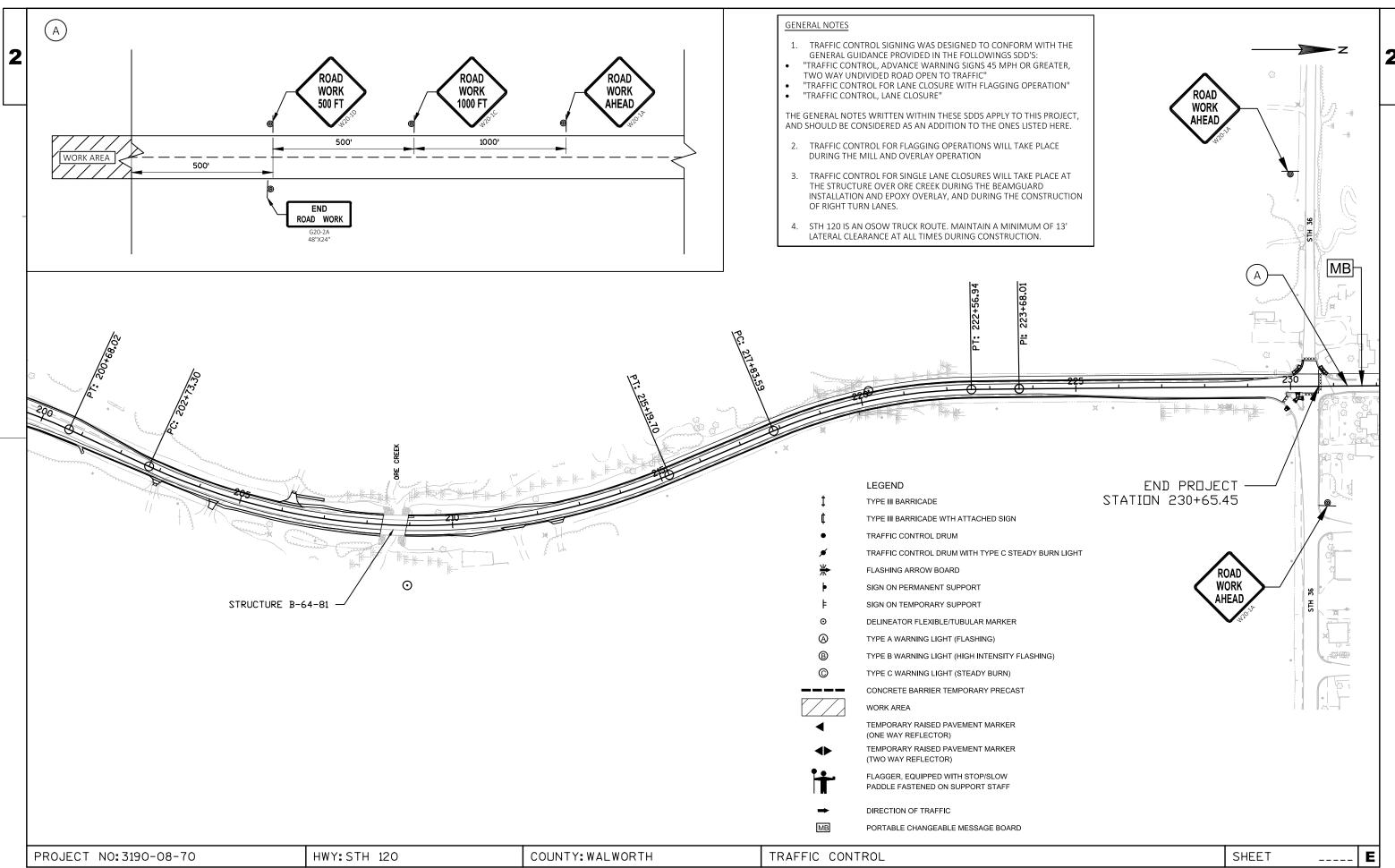
PLOT BY: ASHENFELTER, DANIEL PLOT NAME:

PLOT SCALE : 1 IN:100 FT









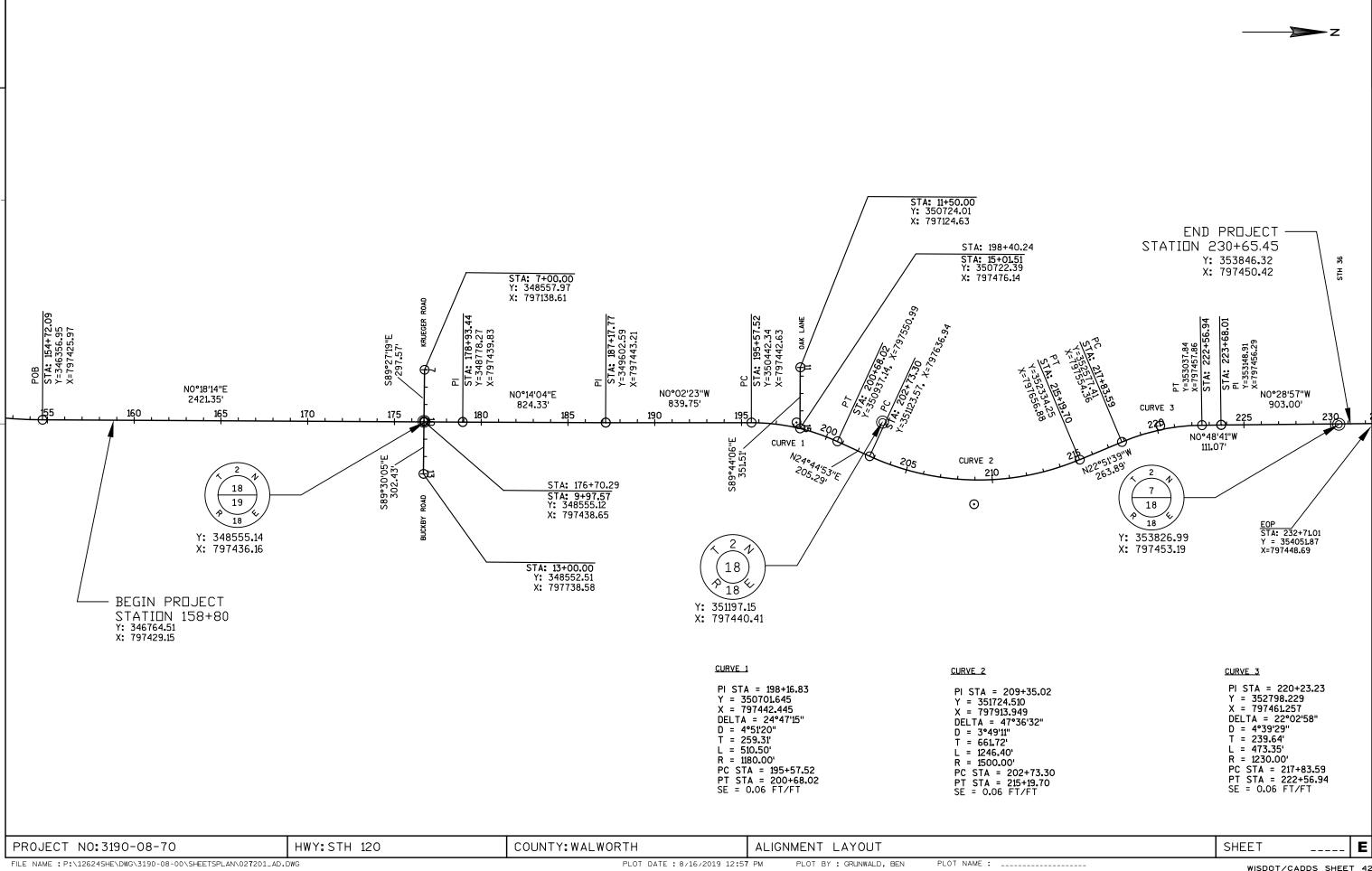
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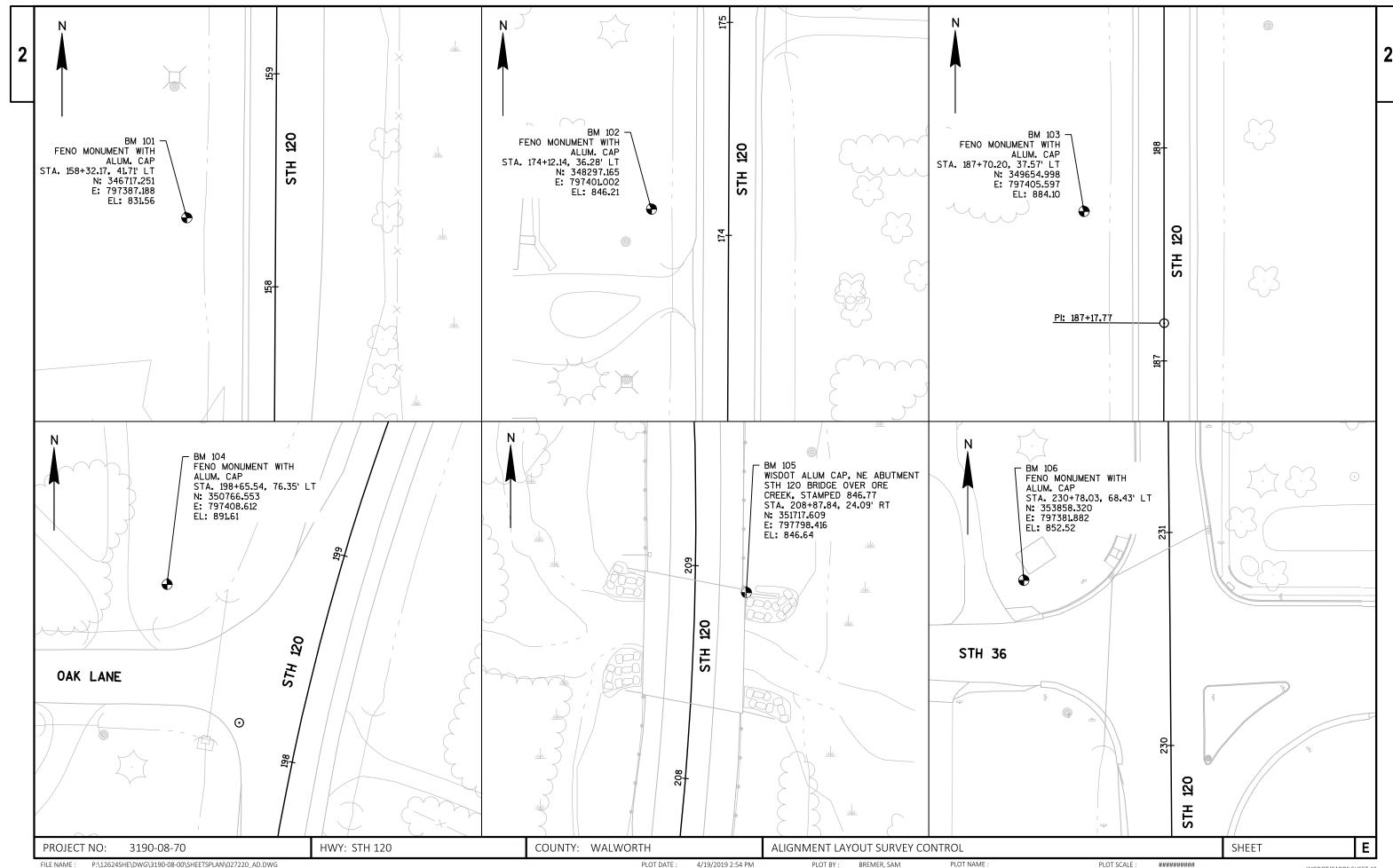
PLOT DATE : 4/30/2019 4:03 PM

PLOT BY : BREMER, SAM

PLOT NAME : _______

WISDOT/CADDS SHEET 42





LAYOUT NAME - 027220_ad

BREMER, SAM

PLOT NAME :

PLOT SCALE :

Page 1

				3190-08-70
Item	Item Description	Unit	Total	Qty
	·			6.000
	-			6.000
	•			7.000
				77.000
				23,171.000
				481.000
	•			30.000
	. ,			1.000
	. ,			5,986.000
				1.000
				848.000
				3,395.000
				148.000
	. •			2.000
				3,111.000
				25.000
	-			3,916.000
				4,450.000
	•			7,185.000
				5,744.000
				3,829.000
				40.000
	•			100.000
				7,956.000
	·			6,184.000
	·			
	•			288.000
	•			120.000
	•			7.000
				142.000
522.1024		EACH	3.000	3.000
522 2310		LE	93 000	93.000
JZZ.ZJ 13		LI	33.000	33.000
522.2324		LF	75.000	75.000
	Class HE-III 24x38-Inch		. 0.000	
522.2329	Culvert Pipe Reinforced Concrete Horizontal Elliptical	LF	50.000	50.000
	Class HE-III 29x45-Inch			
522.2619	Apron Endwalls for Culvert Pipe Reinforced Concrete	EACH	8.000	8.000
	•			
522.2624		EACH	2.000	2.000
	201.0105 201.0205 203.0100 204.0115 204.0120 204.0165 204.9090.S 204.9105.S 205.0100 213.0100 305.0500 310.0115 371.1000.S 416.0160 455.0605 460.2000 460.4110.S 460.5223 460.5224 465.0425 465.03324 522.23329	201.0105 Clearing 201.0205 Grubbing 203.0100 Removing Small Pipe Culverts 204.0115 Removing Asphaltic Surface Butt Joints 204.0120 Removing Guardrail 204.0165 Removing Guardrail 204.9090.S Removing (item description) 01. French Drains 204.9105.S Removing (item description) 01. Inlet Structure 205.0100 Excavation Common 213.0100 Finishing Roadway (project) 01. 3190-08-70 305.0110 Base Aggregate Dense 3/4-Inch 305.0120 Base Aggregate Dense 1 1/4-Inch 305.0500 Shaping Shoulders 310.0115 Base Aggregate Dense 1 1/4-Inch Compaction Concrete Driveway 6-Inch 455.0605 Tack Coat 460.2000 Incentive Density HMA Pavement 460.4110.S Reheating HMA Pavement Longitudinal Joints 460.5223 HMA Pavement 3 LT 58-28 S 465.0120 Asphaltic Surface Driveways and Field Entrances 465.0315 Asphaltic Flumes 465.0425 Asphaltic Shoulder Rumble Strips 2-Lane Rural 465.0475 Asphaltic Shoulder Rumble Strips 2-Lane Rural 465.0475 Asphaltic Centerline Rumble Strips 2-Lane Rural 465.0476 Apron Endwalls for Culvert Pipe Reinforced Concrete 42-Inch 522.2324 Culvert Pipe Reinforced Concrete Horizontal Elliptical Class HE-III 29x43-Inch 522.2329 Culvert Pipe Reinforced Concrete Horizontal Elliptical Class HE-III 29x45-Inch 522.2619 Apron Endwalls for Culvert Pipe Reinforced Concrete Horizontal Elliptical 19x30-Inch	201.0105 Clearing STA 201.0205 Grubbing STA 203.0100 Removing Small Pipe Culverts EACH 204.0115 Removing Asphaltic Surface Butt Joints SY 204.0120 Removing Asphaltic Surface Milling SY 204.0165 Removing Guardrail LF 204.9090.S Removing (item description) 01. French Drains LF 204.9105.S Removing (item description) 01. Inlet Structure LS 205.0100 Excavation Common CY 213.0100 Finishing Roadway (project) 01. 3190-08-70 EACH 305.0110 Base Aggregate Dense 3/4-Inch TON 305.0120 Base Aggregate Dense 1 1/4-Inch TON 305.0500 Shaping Shoulders STA 310.0115 Base Aggregate Open-Graded CY 371.1000.S QMP Base Aggregate Dense 1 1/4-Inch Compaction TON 416.0160 Concrete Driveway 6-Inch SY 455.0605 Tack Coat GAL 460.2200 Incentive Density HMA Pavement Longitudinal Joints LF	201.0105 Clearing STA 6.000 201.0205 Grubbing STA 6.000 203.0100 Removing Small Pipe Culverts EACH 7.000 204.0115 Removing Asphaltic Surface Butt Joints SY 27.7000 204.0120 Removing Asphaltic Surface Milling SY 23,171.000 204.0165 Removing (item description) 01. French Drains LF 481.000 204.9105.S Removing (item description) 01. Inlet Structure LS 1.000 205.0100 Excavation Common CY 5,986.000 213.0100 Finishing Roadway (project) 01. 3190-08-70 EACH 1.000 305.0100 Base Aggregate Dense 3/4-Inch TON 848.000 305.0500 Shaping Shoulders STA 148.000 310.0115 Base Aggregate Dense 1 1/4-Inch TON 3,935.000 310.015 Base Aggregate Open-Graded CY 2.000 371.1000.S QMP Base Aggregate Dense 1 1/4-Inch Compaction TON 3,111.000 416.0160 Concrete Driveway 6-Inch SY <

Estimate Of Quantities

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					3190-08-70
Line	Item	Item Description	Unit	Total	Qty
0072	522.2629	Apron Endwalls for Culvert Pipe Reinforced Concrete Horizontal Elliptical 29x45-Inch	EACH	2.000	2.000
0074	601.0411	Concrete Curb & Gutter 30-Inch Type D	LF	89.000	89.000
0076	601.0557	Concrete Curb & Gutter 6-Inch Sloped 36-Inch Type D	LF	950.000	950.000
0078	602.0405	Concrete Sidewalk 4-Inch	SF	720.000	720.000
0800	602.0505	Curb Ramp Detectable Warning Field Yellow	SF	94.000	94.000
0082	606.0200	Riprap Medium	CY	97.000	97.000
0084	608.0324	Storm Sewer Pipe Reinforced Concrete Class III 24-Inch	LF	260.000	260.000
0086	611.0430	Reconstructing Inlets	EACH	1.000	1.000
8800	611.0530	Manhole Covers Type J	EACH	1.000	1.000
0090	611.0642	Inlet Covers Type MS	EACH	1.000	1.000
0092	611.2006	Manholes 6-FT Diameter	EACH	1.000	1.000
0094	611.3901	Inlets Median 1 Grate	EACH	1.000	1.000
0096	612.0106	Pipe Underdrain 6-Inch	LF	30.000	30.000
0098	614.2300	MGS Guardrail 3	LF	450.000	450.000
0100	614.2330	MGS Guardrail 3 K	LF	100.000	100.000
0102	614.2500	MGS Thrie Beam Transition	LF	158.000	158.000
0104	614.2610	MGS Guardrail Terminal EAT	EACH	4.000	4.000
0106	618.0100	Maintenance And Repair of Haul Roads (project) 01. 3190-08-70	EACH	1.000	1.000
0108	619.1000	Mobilization	EACH	1.000	1.000
0110	624.0100	Water	MGAL	588.000	588.000
0112	625.0100	Topsoil	SY	24,930.000	24,930.000
0114	627.0200	Mulching	SY	24,930.000	24,930.000
0116	628.1504	Silt Fence	LF	7,385.000	7,385.000
0118	628.1520	Silt Fence Maintenance	LF	7,385.000	7,385.000
0120	628.1905	Mobilizations Erosion Control	EACH	6.000	6.000
0122	628.1910	Mobilizations Emergency Erosion Control	EACH	5.000	5.000
0124	628.2004	Erosion Mat Class I Type B	SY	6,330.000	6,330.000
0126	628.2006	Erosion Mat Urban Class I Type A	SY	15,690.000	15,690.000
0128	628.2008	Erosion Mat Urban Class I Type B	SY	4,640.000	4,640.000
0130	628.2039	Erosion Mat Class III Type D	SY	1,060.000	1,060.000
0132	628.7005	Inlet Protection Type A	EACH	1.000	1.000
0134	628.7504	Temporary Ditch Checks	LF	360.000	360.000
0136		Stone or Rock Ditch Checks	CY	154.000	154.000
0138	628.7555	Culvert Pipe Checks	EACH	85.000	85.000
0140	629.0210	Fertilizer Type B	CWT	16.000	16.000
0140	630.0120	Seeding Mixture No. 20	LB	672.000	672.000
0142	634.0618	Posts Wood 4x6-Inch X 18-FT	EACH	68.000	68.000
0144	004.0010	1 0313 11000 400-111011 / 10-1 1	LACIT	00.000	00.000

					3190-08-70
Line	Item	Item Description	Unit	Total	Qty
0146	637.2210	Signs Type II Reflective H	SF	128.120	128.120
0148	637.2230	Signs Type II Reflective F	SF	90.000	90.000
0150	638.2102	Moving Signs Type II	EACH	36.000	36.000
0152	638.2602	Removing Signs Type II	EACH	22.000	22.000
0154	638.3000	Removing Small Sign Supports	EACH	63.000	63.000
0156	642.5201	Field Office Type C	EACH	1.000	1.000
0158	643.0300	Traffic Control Drums	DAY	11,240.000	11,240.000
0160	643.0310.S		LS	1.000	1.000
0162	643.0420	Traffic Control Barricades Type III	DAY	285.000	285.000
0164	643.0715	Traffic Control Warning Lights Type C	DAY	4,210.000	4,210.000
0166	643.0800	Traffic Control Arrow Boards	DAY	285.000	285.000
0168	643.0900	Traffic Control Signs	DAY	1,620.000	1,620.000
0170	643.1050	Traffic Control Signs PCMS	DAY	14.000	14.000
0170	643.5000	Traffic Control	EACH	1.000	1.000
0172					
	645.0111	Geotextile Type DF Schedule A	SY	19.000	19.000
0176	645.0120	Geotextile Type HR	SY	189.000	189.000
0178	645.0130	Geotextile Type R	SY	713.000	713.000
0180	645.0140	Geotextile Type SAS	SY	100.000	100.000
0182	646.1020	Marking Line Epoxy 4-Inch	LF	14,681.000	14,681.000
0184	646.1040	Marking Line Grooved Wet Ref Epoxy 4-Inch	LF	13,915.000	13,915.000
0186	646.3020	Marking Line Epoxy 8-Inch	LF	1,158.000	1,158.000
0188	646.5020	Marking Arrow Epoxy	EACH	4.000	4.000
0190	646.5120	Marking Word Epoxy	EACH	2.000	2.000
0192	646.6120	Marking Stop Line Epoxy 18-Inch	LF	102.000	102.000
0194	648.0100	Locating No-Passing Zones	MI	1.360	1.360
0196	649.0150	Temporary Marking Line Removable Tape 4-Inch	LF	2,800.000	2,800.000
0198	650.4500	Construction Staking Subgrade	LF	2,400.000	2,400.000
0200	650.5000	Construction Staking Base	LF	2,400.000	2,400.000
0202	650.5500	Construction Staking Curb Gutter and Curb & Gutter	LF	850.000	850.000
0204	650.6000	Construction Staking Pipe Culverts	EACH	8.000	8.000
0206	650.8000	Construction Staking Resurfacing Reference	LF	6,720.000	6,720.000
0208	650.9910	Construction Staking Supplemental Control (project) 01. 3190-08-70		1.000	1.000
0210	650.9920	Construction Staking Slope Stakes	LF	7,515.000	7,515.000
0212	690.0150	Sawing Asphalt	LF	450.000	450.000
0214	740.0440	Incentive IRI Ride	DOL	5,444.000	5,444.000
0216	ASP.1T0A	On-the-Job Training Apprentice at \$5.00/HR	HRS	500.000	500.000
0218	ASP.1T0G	On-the-Job Training Graduate at \$5.00/HR	HRS	500.000	500.000
0220	SPV.0060	Special 01. Section Corner Monuments	EACH	20.000	20.000
0220	O1 V.0000	Special of a Coolien Comer Monamente	L/ (OI I	20.000	20.000

EARTHWORK SUMMARY TABLE

Division	From/To Station	Location			Salvaged/ Unusable Pavement Material (4)	Available	Unexpanded Fill	Expanded Fill (13) Factor 1.20	Mass Ordinate +/- (14)	Waste	208.0100 Borrow	Comment:
1	158+80 - 230+65.45	STH 120	5,595	0	0	5,595	90	108	5,487	5,487	0	
2	113+71.87 - 115+01.51	Oak Lane	124	0	0	124	0	0	124	124	0	
3	8+45.78 - 11+52.19	Buckby/Krueger	267	0	0	267	0	0	267	267	0	
Grand Total			5,986	0	0	5,986	90	108	5,878	5,878	0	
	Total Commo	n Exc	5,986	i								

Notes:

- (1) Common Excavation is the sum of the Cut and EBS Excavation columns. Item number 205.0100
- (2) Salvaged/Unsuable Pavement Material is included in Cut.
- (3) EBS Excavation to be backfilled with Select Borrow material.
- (4) Salvaged/Unusable Pavement Material
- (5) Available Material = Cut Salvaged/Unusuable Pavement Material
- (13) Expanded Fill Factor = 1.2

Expanded Fill = (Unexpanded Fill) * Fill Factor

(14) 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.

ALL ITEMS ARE CATEGORY 0010 UNLESS NOTED OTHERWISE.

SHEET Ε PROJECT NO: 3190-08-00 HWY: STH 120 COUNTY: WALWORTH MISCELLANEOUS QUANTITIES P:\12624SHE\DWG\3190-08-00\SHEETSPLAN\030201_MQ.DWG LAYOUT NAME - 030200_mq PLOT DATE: 8/23/2019 9:04 AM PLOT BY: GRUNWALD, BEN PLOT NAME :

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v

			204.0115	204.0120	
			REMOVING ASPHALTIC SURFACE BUTT JOINTS	REMOVING ASPHALTIC SURFACE MILLING	
M	AINLI	NE			
STATION	TO	STATION	SY	SY	REMARKS
158+80	-	158+80	12	=	BEGIN PROJECT
158+80	-	176+71	-	5532	
176+71	-	198+41	:=:	6111	
198+41	-	208+35	: - :	2707	
208+35	-	208+35	9	=	SOUTH END OF BRIDGE
208+93	-	208+93	9	-	NORTH END OF BRIDGE
208+93	-	228+38	-	5517	
228+38	-	231+34	-	1877	
231+34	-	230+65	32	-	END PROJECT
SIDI	E RO	ADS			
8+49	-	8+49	5	-	KRUEGER ROAD
8+49	_	9+75	-	383	KRUEGER ROAD
8+87	_	8+87	6	-	OAK LANE
8+87	-	10+00	-	470	OAK LANE
10+26	-	11+47	_	409	BUCKBY ROAD
11+47	-	11+47	5	-	BUCKBY ROAD
DRI	VEW	AYS			
160+20	-	160+20	-	17	
172+15	-	172+15	-	17	
172+65	-	172+65	-	12	
198+05	-	198+05	-	44	
203+00	-	203+00	-	23	
206+20	-	206+20	-	52	

77

23171

CLEARING AND GRUBBING SUMMARY

201.0105 201.0205 CLEARING GRUBBING

MAINLINE

STATION	TO	STATION	LOCATION	STA	STA
158+80	\	230+65		6	6
TOTALS				6	6

FINISHING ROADWAY PROJECT

213.0100 01. FINISHING **ROADWAY** PROJECT I.D. 3190-08-70.

MAINLINE

STATION	TO	STATION	LOCATION	EACH
158+80	-	230+65		1
TOTALS				1

MISCELLANEOUS REMOVAL SUMMARY

REMOVING REMOVING REMOVING SMALL PIPE FRENCH INLET **SMALL SIGN CULVERTS** DRAINS STRUCTURE SUPPORTS

MAINLINE

STATION	TO	STATION	LOCATION	EACH	LF	LUMP SUM	EACH	REMARKS
176+20	-	176+20	RT			1		BUCKBY ROAD
176+28	-	176+28	RT				1	BUCKBY ROAD
176+46	-	176+96	LT	1				KRUEGER ROAD
176+13	-	177+18	RT	1				BUCKBY ROAD
181+77	-	181+77	RT	1				EXTEND CMCP
197+43	-	197+73	RT	1				DRIVEWAY
197+87	-	198+29	RT	1				DRIVEWAY
12+25	-	12+25	LT	1				BUCKBY ROAD
13+97	-	14+27	LT	1				OAK LANE
113+97	-	113+97	LT		14			OAK LANE
114+27	-	114+27	LT		16			OAK LANE
TOTALS			_	7	30	1	1	_

*FOR INFORMATION ONLY, QUANTITY IS INCLUDED IN TYPE II PERMANENT SIGNING QUANTITIES

ALL ITEMS ARE CATEGORY 0010 UNLESS NOTED OTHERWISE.

TOTALS

Ε HWY: STH 120 COUNTY: WALWORTH SHEET PROJECT NO: 3190-08-00 MISCELLANEOUS QUANTITIES PLOT BY: GRUNWALD, BEN PLOT NAME : PLOT DATE: 8/23/2019 9:04 AM WISDOT/CADDS SHEET 42

REMOVING GUARDRAIL SUMMARY

204.0165

REMOVING **GUARDRAIL**

MAINLINE

	STATION	TO	STATION	LOCATION	LF	REMARKS
•	207+54	-	208+38	LT	83	
	208+97	-	210+20	LT	120	
	206+77	-	208+32	RT	158	
	208+89	-	210+07	RT	120	
	TOTALS				481	

BEAM GUARD ITEMS

,				614.2300	614.2330	614.2500	614.2610
						MGS	MGS
				MGS	MGS	GUARDRAIL	GUARDRAIL
				GUARDRAIL	GUARDRAIL	THRIE BEAM	TERMINAL
				3	3K	TRANSITION	EAT
STATION	TO	STATION	LOCATION	LF	LF	LF	EACH
204+70	-	208+32	RT	225.0	50.0	39.4	1
206+93	-	208+38	LT	50.0	0.0	39.4	1
208+89	-	210+42	RT	62.5	0.0	39.4	1
208+97	-	211+56	LT	112.5	50.0	39.4	1
TOTALS				450	100	158	4

ALL ITEMS ARE CATEGORY 0010 UNLESS NOTED OTHERWISE.

HWY: STH 120

COUNTY: WALWORTH

MISCELLANEOUS QUANTITIES

BASE BASE BASE AGGREGATE AGGREGATE SHOULDERS **DENSE 3/4-INCH** DENSE DENSE

305.0120

305.0110

1 1/4-INCH 1 1/4-INCH COMPACTION

371.1000.S

QMP

305.0500

SHAPING

*624.0100

WATER

MAINLINE

BASE AGGREGATE ITEMS

	AINLI								
STATION	TO	STATION	LOCATION	TONS	TONS	TONS	STA	MGAL	REMARKS
158+80	-	176+50	LT & RT	-	1001	1001	36	10.1	PAVEMENT
158+80	-	176+50	LT & RT	33	61	61	-	-	SHOULDER
158+80	-	176+50	LT & RT	31	241	241	-	-	4:1 SLOPE
158+80	-	176+50	LT & RT	-	202	202	-	-	CURB & GUTTER
176+50	-	198+00	LT & RT	-	870	870	43	8.7	PAVEMENT
176+50	-	198+00	LT & RT	16	87	87	-	Ħ	SHOULDER
176+50	_	198+00	LT & RT	15	113	113	·=	=	4:1 SLOPE
176+50	-	198+00	LT & RT	244	=	=	·=	-	SHOULDER
198+00	_	208+40	LT & RT	-	412	412	21	4.2	PAVEMENT
198+00	-	208+40	LT & RT	15	27	27	-	=	SHOULDER
198+00	-	208+40	LT & RT	13	98	98	-	-	4:1 SLOPE
198+00	-	208+40	LT & RT	131	-	-	-	-	SHOULDER
208+40	-	230+65	LT & RT	290	-	=	45	-	SHOULDER
SID	E RO								
8+49	-	9+16	LT	2	-	-	0.5	0.1	KRUEGER
8+49	-	9+16	LT	-	11	-	-	0.2	KRUEGER
8+49	-	9+76	LT	-	59	=	-	0.6	KRUEGER
8+87	-	9+48	LT	2	-	-	0.5	0.1	OAK
8+87	-	9+48	LT	-	10	-	-	0.2	OAK
8+87	-	10+17	LT	-	21	=	-	0.3	OAK
10+64	-	11+47	LT	2	-	=	0.5	0.1	BUCKBY
10+24	-	11+47	LT	-	27	-	-	0.3	BUCKBY
10+64	-	11+47	LT	-	14	-	-	0.2	BUCKBY
8+49	-	9+36	RT	3	-	-	0.5	0.1	KRUEGER
8+49	-	9+36	RT	-	14	=	-	0.2	KRUEGER
8+49	-	9+76	RT	-	30	-	-	0.3	KRUEGER
8+87	-	9+46	RT	2	-	-	0.5	0.1	OAK
8+87	-	9+46	RT	-	9	-	-	0.1	OAK
8+87	-	9+86	RT	=	26	=	.=	0.3	OAK
10+85	-	11+47	RT	2	Ε.	-	0.5	0.1	BUCKBY
10+24	-	11+47	RT	-	52	=	.=	0.6	BUCKBY
10+84	-	11+47	RT	-	11	=		0.2	BUCKBY
	IVEW			100					
165+50	-	165+50	RT	8	F:	-	.=	0.1	
173+75	-	173+75	LT	0.02		Ħ	·=	0.1	
175+00	-	175+00	RT	4	=	Ξ	1.0	0.1	
197+55	-	197+55	RT	0.2	-	=	-	0.1	
204+40	-	204+40	RT	31	-	-	-	0.4	
211+45	-	211+45	RT	1	-	=	-	0.1	
212+40	-	212+40	RT	3	-	-	-	0.1	
TOTALS				848	3395	3111	148	28	

*QUANTITY LISTED ELSEWHERE IN PLANS

PLOT NAME :

PLOT DATE : 8/23/2019 9:04 AM PLOT BY: GRUNWALD, BEN

WISDOT/CADDS SHEET 42

SHEET

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FILE NAME : P:\126245HE\DWG\3190-08-00\SHEETSPLAN\030201_MQ.DWG LAYOUT NAME - 030202_mq

PROJECT NO: 3190-08-00

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AOL	ПА	_		/I - 3

ASFRALTI		_		460.5223 HMA PAVEMENT 3 LT 58-28 S	460.5224 HMA PAVEMENT 4 LT 58-28 S	455.0605 TACK COAT	465.0120 ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES	465.0315 ASPHALTIC FLUMES	465.0425 ASPHALTIC SHOULDER RUMBLE STRIPS 2-LANE RURAL	465.0475 ASPHALTIC CENTERLINE RUMBLE STRIPS 2-LANE RURAL	
	AINLI										
STATION	то	The state of the s	LOCATION	TONS	TONS	GAL	TONS	SY	LF	LF	REMARKS
158+80	-	176+71	-	1506	1004	1026	-	-	1700	1491	
160+20	-	160+20	LT	-1	=	-	3	-	-	-	
172+15	-	172+15	LT	-	-	-	3	-	-	-	
172+65	-	172+65	LT	=1	=	-	2	=	-		
176+71	-	198+49	-	1617	1078	1114	-	-	2660	1778	
198+05	-	198+05	RT	-	-	-	7	-	-	-	
198+49	-	208+36	-	796	531	527	-	-	1024	877	
203+00	-	203+00	RT	-	-	-	4	-	-	-	
206+20	-	206+20	LT	-	-	-	9	-	-	-	
208+96	=	230+65	<u> </u>	1573	1048	1053	-	-	2572	2038	
SID	E RO	ADS									
8+49	-	9+76	-	89	59	64		33	-	-	KRUEGER
9+05	_	9+05	RT	-	-	-	6	17	-	-	OAK
9+25	-	9+25	LT	-	-	-	6	17	-	-	OAK
10+24	-	11+47	_	93	62	68	_	33	-	_	BUCKBY
8+87	-	10+02	-	71	47	63	-	-	-	-	OAK
TOTALS				5744	3829	3916	40	100	7956	6184	

REHEATING HMA PAVEMENT JOINTS

460.4100.S REHEATING HMA PAVEMENT

LONGITUDINAL JOINTS

MAINLINE

STATION	TO	STATION	LOCATION	LF
158+80	-	230+65		7185
TOTALS				7185

CONCRETE DRIVEWAY ITEMS

416.0160

CONCRETE
DRIVEWAY 6-INCH

MAINLINE

STATION	TO	STATION	OFFSET	SY	REMARKS
197+47	-	197+67	35' RT	8	
198+00	-	198+16	35' RT	7	

SIDE ROADS

STATION	TO	STATION	OFFSET	SY	REMARKS
10+89	-	11+10	20' RT	10	BUCKBY
TOTALS				25	

ALL ITEMS ARE CATEGORY 0010 UNLESS NOTED OTHERWISE.

PROJECT NO: 3190-08-00 HWY: STH 120 COUNTY: WALWORTH MISCELLANEOUS QUANTITIES SHEET **E**

DRAINAGE ITE	<u>EMS</u>		520.3324	521.3118	522.2319	522.2324	522.2329	521.1018	522.2619 APRON ENDWALLS	522.2624 APRON ENDWALLS	522.2629 APRON ENDWALLS	611.0642	611.3901			
			CULVERT PIPE CLASS III-A 24-INCH	CULVERT PIPE CORRUGATED STEEL 18-INCH	CULVERT PIPE REINFORCED CONCRETE HORIZONTAL ELLIPTICAL CLASS HE-III 19X30-INCH			RON ENDWALLS FOR VERT PIPE STEEL 18- INCH	HORIZONTAL	FOR CULVERT PIPE REINFORCED CONCRETE HORIZONTAL ELLIPTICAL 24X38- INCH	CONCRETE HORIZONTAL	INLET COVERS TYPE MS	INLETS MEDIAN 1 GRATE		KNESS CHES)	
MAIN STATION	LINE LOCATION	DESCRIPTION	LF	LF	LF	LF	LF	EACH	EACH	EACH	EACH	EACH	EACH	STEEL	ALUMINUM	REMARKS
160+15 167+12	LT CL (DRIVEWAY CROSS CULVERT	-	-	-	- 75	50 -	-	-	- 2	2		-	-	-	
172+20	LT	DRIVEWAY	-	-	24	-	-	-	2	-	-	-	-	-	-	
72+60 73+80	LT LT	DRIVEWAY DRIVEWAY	-	<u> </u>	24 26	-	-	-	2	-	<u>-</u> 	-	-	-	-	
75+00 97+50	RT RT	DRIVEWAY DRIVEWAY	-	- 22	19		-	2	2	-	-	-	-	0.064	-	
98+10	RT	DRIVEWAY	-	18	-	•	-	2	-	-	-	*	*	0.064		
97+88 98+80		CROSS CULVERT CROSS CULVERT	-	30 36	2	-		1	-	-	-	1	1	0.064 0.064	-	
4+10	LT	DRIVEWAY	12	28 8	-	-	-	2	-	-	-	-	-	0.064	-	
19+90 10+59 TALS		CROSS CULVERT	120 120	8 - - 142	93	- - 75	50	- - 7	-	-	-	-	-	0.064 0.064	0.075	
							522.1024 APRON ENDWA	LLS STOR	608.0324		611.0430		611.0530		611.	.2006
		EPOM		TO				PIPE STOR REINFO	608.0324 RM SEWER PIPE RCED CONRET SS III 24-INCH	RECO	611.0430 NSTRUCTING INLETS	MANHO	611.0530 DLE COVERS T	TYPE	MANHO	.2006 LES 6-FT IETER
		FROM OFFSE	•	TO STATION	OFFSET	DESCRIPTION	APRON ENDWA FOR CULVERT REINFORCE CONRETE 24-II	PIPE STOR REINFO	RM SEWER PIPE PRCED CONRET SS III 24-INCH	RECO	NSTRUCTING INLETS	MANHO	OLE COVERS	TYPE	MANHO DIAM	LES 6-FT IETER
	STATION	OFFSE		STATION	OFFSET 29.5' LT	DESCRIPTION DISCHARGE PIPE	APRON ENDWA FOR CULVERT REINFORCE	PIPE STOR REINFO	RM SEWER PIPE PRCED CONRET SS III 24-INCH LF	RECO	NSTRUCTING	MANHO		TYPE	MANHO DIAM	LES 6-FT
		OFFSE			OFFSET 29.5' LT 48.8' LT	DESCRIPTION DISCHARGE PIPE KRUEGER PIPE	APRON ENDWA FOR CULVERT REINFORCE CONRETE 24-II	PIPE STOR REINFO	RM SEWER PIPE PRCED CONRET SS III 24-INCH	RECO	NSTRUCTING INLETS	MANHO	OLE COVERS	TYPE	MANHO DIAM	LES 6-FT IETER
-	STATION 176+40.5	OFFSE 48.8' LT		STATION 174+75	29.5' LT	DISCHARGE PIPE	APRON ENDWAFOR CULVERT REINFORCE CONRETE 24-II EACH 1 1	PIPE STOR REINFO	RM SEWER PIPE PRCED CONRET SS III 24-INCH LF 167	RECO	NSTRUCTING INLETS	MANHO	OLE COVERS	TYPE	MANHO DIAM	LES 6-FT IETER
-	STATION 176+40.5 9+36.4	OFFSE 48.8' LT 33.3' R1		174+75 176+40.5	29.5' LT 48.8' LT	DISCHARGE PIPE KRUEGER PIPE	APRON ENDWAFOR CULVERT REINFORCE CONRETE 24-II EACH 1 1	PIPE STOR REINFO	RM SEWER PIPE PRCED CONRET SS III 24-INCH LF 167 16 77	RECO	NSTRUCTING INLETS	MANHO	OLE COVERS	TYPE	MANHO DIAM	LES 6-FT IETER
-	STATION 176+40.5 9+36.4 177+05	OFFSE 48.8' LT 33.3' RT 65' LT		174+75 176+40.5 176+40.5	29.5' LT 48.8' LT 48.8' LT	DISCHARGE PIPE KRUEGER PIPE KRUEGER X-CULVERT	APRON ENDWAFOR CULVERT REINFORCE CONRETE 24-II EACH 1 1	PIPE STOR REINFO	RM SEWER PIPE RCED CONRET SS III 24-INCH LF 167 16	RECO	NSTRUCTING INLETS	MANHO	OLE COVERS	TYPE	MANHO DIAM EA	LES 6-FT IETER
-	STATION 176+40.5 9+36.4 177+05 208+97	OFFSE 48.8' LT 33.3' RT 65' LT		174+75 176+40.5 176+40.5 209+10	29.5' LT 48.8' LT 48.8' LT	DISCHARGE PIPE KRUEGER PIPE KRUEGER X-CULVERT	APRON ENDWAFOR CULVERT REINFORCE CONRETE 24-II EACH 1 1 1 - 3	PIPE STOR PIPE REINFO CLA	RM SEWER PIPE RCED CONRET SS III 24-INCH LF 167 16 77 - 260	E RECO	NSTRUCTING INLETS EA 1 1	MANHO	OLE COVERS	TYPE	MANHO DIAM EA	LES 6-FT IETER ACH 1 - -
-	STATION 176+40.5 9+36.4 177+05 208+97	OFFSE 48.8' LT 33.3' RT 65' LT		174+75 176+40.5 176+40.5 209+10	29.5' LT 48.8' LT 48.8' LT 22' LT	DISCHARGE PIPE KRUEGER PIPE KRUEGER X-CULVERT	APRON ENDWAFOR CULVERT REINFORCE CONRETE 24-III EACH 1 1 1 3 3 310.011	PIPE STOR PIPE REINFO CLA	LF 167 16 77 - 260	RECO	NSTRUCTING INLETS EA 1 1	MANHO	OLE COVERS	TYPE	MANHO DIAM EA	LES 6-FT IETER ACH 1 - -
-	STATION 176+40.5 9+36.4 177+05 208+97	OFFSE 48.8' LT 33.3' RT 65' LT		174+75 176+40.5 176+40.5 209+10	29.5' LT 48.8' LT 48.8' LT 22' LT	DISCHARGE PIPE KRUEGER PIPE KRUEGER X-CULVERT	APRON ENDWAFOR CULVERT REINFORCE CONRETE 24-II EACH 1 1 1 3 310.0115 BASE AGGRE	PIPE STOR PIPE REINFO CLA CLA GATE PIPE	RM SEWER PIPE PRCED CONRET SS III 24-INCH LF 167 16 77 - 260 612.0106 UNDERDRAIN	RECO	NSTRUCTING INLETS EA 1 1 111 LE TYPE	MANHO	OLE COVERS	TYPE	MANHO DIAM EA	LES 6-FT IETER ACH 1 - -
-	STATION 176+40.5 9+36.4 177+05 208+97	OFFSE 48.8' LT 33.3' RT 65' LT		174+75 176+40.5 176+40.5 209+10	29.5' LT 48.8' LT 48.8' LT 22' LT	DISCHARGE PIPE KRUEGER PIPE KRUEGER X-CULVERT	APRON ENDWAFOR CULVERT REINFORCE CONRETE 24-III EACH 1 1 1 3 3 310.011	PIPE STOR PIPE REINFO CLA CLA GATE PIPE	LF 167 16 77 - 260	RECO	NSTRUCTING INLETS EA 1 1 111 LE TYPE	MANHO	OLE COVERS	TYPE	MANHO DIAM EA	LES 6-FT IETER ACH 1 - -
-	STATION 176+40.5 9+36.4 177+05 208+97	OFFSE 48.8' LT 33.3' RT 65' LT		174+75 176+40.5 176+40.5 209+10	29.5' LT 48.8' LT 48.8' LT 22' LT	DISCHARGE PIPE KRUEGER PIPE KRUEGER X-CULVERT -	APRON ENDWAFOR CULVERT REINFORCE CONRETE 24-II EACH 1 1 1 3 3 310.0115 BASE AGGRE OPEN-GRA	PIPE STOR PIPE REINFO CLA CLA GATE PIPE	RM SEWER PIPE RCED CONRET SS III 24-INCH LF 167 16 77 - 260 612.0106 UNDERDRAIN 6-INCH	645.0 GEOTEXTI DF SCHE	EA 1 1 111 LE TYPE DULE A	MANHO	OLE COVERS	TYPE	MANHO DIAM EA	LES 6-FT IETER ACH 1 - -
-	STATION 176+40.5 9+36.4 177+05 208+97	OFFSE 48.8' LT 33.3' RT 65' LT		174+75 176+40.5 176+40.5 209+10 PIPE UN	29.5' LT 48.8' LT 48.8' LT 22' LT IDERDRAIN MAINLINE ON TO STA	DISCHARGE PIPE KRUEGER PIPE KRUEGER X-CULVERT - ATION LOCATION	APRON ENDWAFOR CULVERT REINFORCE CONRETE 24-II EACH 1 1 1 3 310.0119 BASE AGGRE OPEN-GRA	PIPE STOR PIPE REINFO CLA CLA GATE PIPE	RM SEWER PIPE RCED CONRET SS III 24-INCH LF 167 16 77 - 260 612.0106 UNDERDRAIN 6-INCH	645.0 GEOTEXTI DF SCHE	EA 1 1 1 LE TYPE DULE A	MANHO	OLE COVERS	TYPE	MANHO DIAM EA	LES 6-FT IETER ACH 1 -
LL ITEM:	176+40.5 9+36.4 177+05 208+97 TOTALS	9FFSET 48.8' LT 33.3' RT 65' LT 22' LT		174+75 176+40.5 176+40.5 209+10	29.5' LT 48.8' LT 48.8' LT 22' LT IDERDRAIN MAINLINE ON TO STA 0 - 11	DISCHARGE PIPE KRUEGER PIPE KRUEGER X-CULVERT -	APRON ENDWAFOR CULVERT REINFORCE CONRETE 24-II EACH 1 1 1 3 310.0119 BASE AGGRE OPEN-GRA	PIPE STOR PIPE REINFO CLA CLA GATE PIPE	RM SEWER PIPE RCED CONRET SS III 24-INCH LF 167 16 77 - 260 612.0106 UNDERDRAIN 6-INCH	645.0 GEOTEXTI DF SCHE	EA 1 1 111 LE TYPE DULE A	MANHO	OLE COVERS	TYPE	MANHO DIAM EA	LES 6-FT IETER ACH 1 -

FILE NAME : P:\126245HE\DWG\\3190-08-00\\SHEETSPLAN\\030201_MQ.DWG PLOT DATE : 8/23/2019 9:04 AM PLOT BY : GRUNWALD, BEN PLOT NAME : LAYOUT NAME - 030204_mq

601.0411 601.0557 CONCRETE CONCRETE

CURB & GUTTER 30-INCH TYPE D

CURB & GUTTER 6-INCH SLOPED 36-INCH TYPE D

MAINLINE

STATION	TO	STATION	LOCATION	LF	LF		
175+95	-	175+95	SE CORNER		114		
176+15	-	176+15	SW CORNER		160		
177+25	-	177+25	NE CORNER		60		
177+46	-	177+46	NW CORNER		92		
196+88	-	201+00	LF		401		
197+74	-	197+74	SW CORNER		67		
199+02	-	199+02	NW CORNER		56		
229+89	_	229+89	53' RT	10			
230+17	-	230+17	27' RT	27			
230+17	-	230+17	39' LT	30			
230+76	-	230+76	36' LT	22			
TOTALS				89	950		
	175+95 176+15 177+25 177+46 196+88 197+74 199+02 229+89 230+17 230+17 230+76	175+95 - 176+15 - 177+25 - 177+46 - 196+88 - 197+74 - 199+02 - 229+89 - 230+17 - 230+76 -	175+95 - 175+95 176+15 - 176+15 177+25 - 177+25 177+46 - 177+46 196+88 - 201+00 197+74 - 197+74 199+02 - 199+02 229+89 - 229+89 230+17 - 230+17 230+76 - 230+76	175+95 - 175+95 SE CORNER 176+15 - 176+15 SW CORNER 177+25 - 177+25 NE CORNER 177+46 - 177+46 NW CORNER 196+88 - 201+00 LF 197+74 - 197+74 SW CORNER 199+02 - 199+02 NW CORNER 229+89 - 229+89 53' RT 230+17 - 230+17 27' RT 230+17 - 230+17 39' LT 230+76 - 230+76 36' LT	175+95 - 175+95 SE CORNER 176+15 - 176+15 SW CORNER 177+25 - 177+25 NE CORNER 177+46 - 177+46 NW CORNER 196+88 - 201+00 LF 197+74 - 197+74 SW CORNER 199+02 - 199+02 NW CORNER 229+89 - 229+89 53' RT 10 230+17 - 230+17 27' RT 27 230+17 - 230+17 39' LT 30 230+76 - 230+76 36' LT 22		

CONCRETE SIDEWALK ITEMS

602.0405 602.0505 **CURB RAMP** CONCRETE **DETECTABLE**

SIDEWALK 4-INCH WARNING FIELD YELLOW

MAINLINE

STATION	TO	STATION	OFFSET	SF	SF
229+89	-	229+89	53' RT	75	13
230+17	-	230+17	27' RT	210	38
230+17	-	230+17	39' LT	235	25
230+76	-	230+76	36' LT	200	19
TOTALS				720	94

HWY: STH 120

ALL ITEMS ARE CATEGORY 0010 UNLESS NOTED OTHERWISE.

MOBILIZATION

619.1000

MOBILIZATION

MAINLINE

STATION	TO	STATION	LOCATION	EACH	
158+80	-	230+65		1	
TOTALS				1	

FIELD OFFICE

642.5201 FIELD OFFICE TYPE C

20

MAINLINE

STATION	TO	STATION	LOCATION	EACH				
158+80	-	230+65		1				
TOTALS				1				

SECTION CORNERS

SPV.0060.01 SECTION MAINLINE CORNER **MONUMENTS EACH** STATION TO STATION LOCATION 158+80 -230+65 20

HAUL ROADS

TOTALS

618.0100 MAINTENANCE **AND REPAIR OF HAUL ROADS PROJECT** 3190-08-70

MAINLINE

STATION	TO	STATION	LOCATION	EACH
158+80	-	230+65		1
TOTALS				1

3190-08-00

P:\12624SHE\DWG\3190-08-00\SHEETSPLAN\030201_MQ.DWG LAYOUT NAME - 030205_mq

COUNTY: WALWORTH

MISCELLANEOUS QUANTITIES

PLOT NAME :

SHEET

WISDOT/CADDS SHEET 42

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PROJECT NO:

Т	RA	FFI	CC	ONT	ROL

		ITEM		ITEM NO.		M NO.	ITEN			I NO.	ITEM		ITEM		ITEM NO.	ITEM NO.
7			0300	643.0310.S		.0420		0715		0800	643.0		643.		643.5000	649.0150
		TRAFFIC (JMS	TEMPORARY PORTABLE RUMBLE STRIPS		CONTROL ES TYPE III		CONTROL SHTS TYPE C		CONTROL BOARDS	TRAFFIC C SIG		SIGNS	PCMS	TRAFFIC CONTROL	TEMPORARY MARKING LINE REMOVABLE TAPE 4-INCH
LOCATION	DAYS	EACH	DAYS	LUMP SUM	EACH	DAYS	EACH	DAYS	EACH	DAYS	EACH	DAYS	EACH	DAYS	EACH	LF
158+80 - 230+65.45	70	_		1			_	_	_	_	10	700			_	
158+80 - 176+50	70	40	2,800		1	70	15	1,050	1	70	4	280	1	7	_	700
176+50 - 198+00	70	40	2,800		1	70	15	1,050	1	70	3	210			_	700
198+00 - 208+40	70	40	2,800		1	70	15	1,050	1	70					-	700
208+40 - 230+00	70	40	2,800		1	70	15	1,050	1	70	6	420	1	7	-	700
UNDISTRIBUTED			40			5		10		5		10			1	
TOTALS			11240	1		285		4210		285		1620		14	1	2,800

PAVEN	IENT	MARK	ING	ITEMS
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646.1020	646.1040	646.3020	646.5020	646.5120	646.6120
MARKING LINE EPOXY 4-	MARKING LINE	MARKING LINE	MARKING	MARKING	MARKING
INCH	GROOVED WET REF	EPOXY 8-INCH	ARROW EPOXY	WORD EPOXY	STOP LINE
	EPOXY 4-INCH				EPOXY
					18-INCH

		YELLOW	WHITE	WHITE	WHITE				
START STATION	END STATION	LF	LF	LF	LF	EACH	EACH	LF	REMARKS
158+80	176+70	2623	716	3692	561	2	1	30	
176+70	198+41	4084	449	4271	346			72	
198+41	208+35	1990	266	1945	251	2	1		
208+35	208+93	116		116					
208+93	228+38	4274	163	3891					
TOTALS		13087	1594	13915	1158	4	2	102	
		440	204						

14681

ALL ITEMS ARE CATEGORY 0010 UNLESS NOTED OTHERWISE.

PROJECT NO: 3190-08-00 HWY: STH 120 COUNTY: WALWORTH MISCELLANEOUS QUANTITIES SHEET **E**

FILE NAME : P:\12624SHE\DWG\3190-08-00\SHEETSPLAN\030201_MQ.DWG LAYOUT NAME - 030206_mq

PLOT DATE : 8/23/2019 9:04 AM PLOT BY : GRUNWALD, BEN PLOT NAME :

	EROSION	<u>CON</u>	TROL ITEM		606.0200 RIPRAP MEDIUM	*624.0100 WATER	625.0100 TOPSOILS	628.2004 EROSION MAT CLASS I	628.2006 EROSION MAT URBAN CLASS	628.2008 EROSION MAT URBAN CLASS	628.2039 EROSION MAT CLASS III TYPE D	628.7515.S STONE OR ROCK DITCH CHECKS	629.0210 FERTILIZER TYPE B	630.0120 SEED MIXTURE	645.0120 GEOTEXTILE TYPE HR	645.0140 GEOTEXTILE TYPE SAS	
	CTATION	Τ0	CTATION	LOCATION	OV	MCAL	ev.	TYPE B	I TYPE A	I TYPE B	ev	CV.	CMT	NO. 20	ev	ev	
	STATION	10	STATION	LOCATION	CY	MGAL	SY	SY	SY	SY	SY	CY	CWT	LBS	SY	SY	4
12																	12
3	158+80	-	176+50	LT	40	103	4600	1400	2490	700		1	2.9	124.0			၂ ၁
	158+80	-	176+50	RT	16	66	2920	1330	1600	0			1.9	78.6			
	176+50	_	198+00	LT	8	135	6000	1880	2700	1940	210	5	3.8	161.9		101	
	176+50	_	198+00	RT	10	71	3180	870	2400	270			2.0	85.6			\vdash
	198+00	-	208+40	LT	13	48	2120	580	1560	230	580	99	1.4	57.2	189	613	1
	198+00	-	208+40	RT	10	31	1370	270	570	630	270	37	0.9	36.8			
	208+40	-	230+00	LT		62	2780		2530	540		6	1.8	74.8			
	208+40	_	230+00	RT		44	1960		1840	330		6	1.3	52.8			
	0.000																
	TOTALS				97	560	24930	6330	15690	4640	1060	154	16	672	189	713]

*QUANTITY LISTED ELSEWHERE IN PLANS

TEMPORARY EROSION CONTROL

				627.0200	628.1504	628.1520	628.7005	628.7504	628.7555
				MULCHING	SILT FENCE	SILT FENCE MAINTENANCE	INLET PROTECTION TYPE A	TEMPORARY DITCH CHECKS	CULVERT PIPE CHECKS
STATION	ТО	STATION	LOCATION	SY	LF	LF	EACH	LF	EACH
158+80	-	176+50	LT	4600	90	90		44	33
158+80	-	176+50	RT	2920	1065	1065		44	8
176+50	-	198+00	LT	6000	630	630	1	82	4
176+50	-	198+00	RT	3180	555	555		33	
198+00	-	208+40	LT	2120	430	430			10
198+00	-	208+40	RT	1370	910	910			6
208+40	-	230+00	LT	2780	1385	1385		31	7
208+40	-	230+00	RT	1960	840	840		54	
UNDISTRIB	UTE)			1480	1480		72	17
TOTALS				24930	7385	7385	1	360	85

EROSION	CON	TROL MOBIL	IZATIONS	
			628.1905	628.1910
			MOBILIZATIONS	MOBILIZATIONS
			EROSION	EMERGENCY
			CONTROL	EROSION
				CONTROL
STATION	ТО	STATION	EACH	EACH
158+80	-	230+00	6	5
TOTALS			6	5

ALL ITEMS ARE CATEGORY 0010 UNLESS NOTED OTHERWISE.

PROJECT NO: 3190-08-00 HWY: STH 120 COUNTY: WALWORTH MISCELLANEOUS QUANTITIES SHEET **E**

FILE NAME : P:\12624SHE\DWG\3190-08-00\SHEETSPLAN\030201_MQ.DWG LAYOUT NAME - 030207_mq

PLOT DATE : 8/23/2019 9:04 AM PLOT BY : GRUNWALD, BEN PLOT NAME :

<u>conccom</u>	<u>N STAKING</u>	650.4500 CONSTRUCTION STAKING SUBGRADE	650.5000 CONSTRUCTION STAKING BASE	650.5500 CONSTRUCTION STAKING CURB GUTTER AND CURB AND GUTTER	650.6000 CONSTRUCTION STAKING PIPE CULVERTS	650.8000 CONSTRUCTION STAKING RESURFACING REFERENCE LINE	650.9910 CONSTRUCTION STAKING SUPPLEMENTAL CONTROL PROJECT 3190-08-70	650.9920 CONSTRUCTION STAKING SLOPE STAKES
MAINLI STATION TO	NE Station Location	LF	LF	LF	EACH	LF	16	LF
158+80 -	230+65	2400	2400	850	8 8	6720	LS 1	
TOTALS	230100	2400	2400	850	8	6720	1	7515
	SAWING ITEMS MA STATION 158+80 208+35 208+93 230+65	690.0150 SAWING ASPHALT LF INLINE LF 52 46 44 150			STA 20 CAT	MAINLINE ATION TO STATION 8+28 - 208+85 FEGORY 0020 TALS	LOCATION STRUCTURE B-64-81	509.5100.S POLYMER OVERLAY SY 288
	SIDE 8+44	ROADS 23						
	11+52 13+72	23 25						
		/EWAYS			L	LOCATING NO PASSI	NG ZONES	
	160+20	30			_		64	48.0100
	172+15 172+65	12					LOC	ATING NO
	172+65	10					P/	ASSING
	198+05	9					Z	ONES
	203+03	13				MAINLINE		
	206+20	13				STATION TO STA	TION LOCATION	MI
	TOTALS	450)+65	1.36

FILE NAME : P:\12624SHE\DWG\3190-08-00\SHEETSPLAN\030201_MQ.DWG LAYOUT NAME - 030208_mq PLOT DATE : 8/23/2019 9:04 AM PLOT BY: GRUNWALD, BEN PLOT NAME :

						637.2210	637.2230	637.2215	638.2602	638.3000	634.0618	634.0816	638.2102		
				TYPE II		SIGNS	SIGNS	SIGNS	REM	REM		POSTS			
	SIGN			SIGN		TYPE II	TYPE II	TYPE II	SIGNS	SMALL	WOOD	TUBULAR	MOVE	MOUNT	
SIGN	CODE	SIGN		SIZE		REFLC	REFLC	REFLC	TYPE	SIGN	POSTS	STEEL	SIGNS	ON SAME	
NO.	& SIZE	MESSAGE	W	X	Н	Н	F	H FOLDING	II	SUPPORTS	4" X 6" X 18'	2" X 2" X 16'	TYPE II	POST AS	
			[IN.]	х	[IN.]	[SF]	[SF]	[SF]	[EA]	[EA]	[EA]	[EA]	[EA]	SIGN#	REMARKS / NEW SIGN LOCATION
1	S4-51	SPEED LIMIT 45								1	1		1		SHEET 2 OF 6
2	D7-68R	WHITE RIVER COUNTY PARK [RA]								2	2		1		
3	E10-82	HAWKS VIEW GOLF CLUB											1		OWNED BY OTHERS (HAWKS VIEW)
4	E10-82	HAWKS VIEW GOLF CLUB											1		OWNED BY OTHERS (HAWKS VIEW)
5	W14-3									1	1		1		SHEET 2 OF 6
6	R2-1 (2S)	SPEED LIMIT 55	24	X	30	5.000			1	1	1				
7	S5-2 (2S)		24	X	30	5.000								6	
8	S1-1										1		1		REMOVAL BY SIGN NO. 5
9	S16-9P													8	
10	R2-6P													8	
11	R12-53 (2S)	BY ORDER OF LYONS TOWN BOARD	24	Х	30	5.000			1	2	1				
12	R12-53 (2S)	BY ORDER OF TOWN OF LYONS	24	X	30	5.000			1	1	1				
13	R1-1 (2S)		30	X	30	5.180			1	1	1				
14	R1-1 (2S)		30	X	30	5.180			1	1	1				
15	R1-1 (2S)		30	Χ	30	5.180			1	1	1				
16	R1-1 (2S)		30	Χ	30	5.180			1	1	1				
17	D7-68L	WHITE RIVER COUNTY PARK [LA]								2	2		1		SHEET 3 OF 6
18	W2-2L									1	1		1		
19	W2-2L									1	1		1		
20	W2-1													18	
21	W2-1													19	
22	W13-1	45 MPH												18	
23	W13-1	45 MPH												19	
24	W1-5									1	1		1		
25	W1-5									1	1		1		
26	W13-1	45 MPH												24	
27	W13-1	45 MPH												25	
28	W1-8									1	1		1		MOUNT HEIGHT 4 FEET; SHEET 4 OF 6
29	W1-8													28	MOUNT HEIGHT 4 FEET
30	W1-8									1	1		1		MOUNT HEIGHT 4 FEET
31	W1-8													30	MOUNT HEIGHT 4 FEET
32	W1-8									1	1		1		MOUNT HEIGHT 4 FEET
33	W1-8													32	MOUNT HEIGHT 4 FEET
34	W1-6									1	1		1		
35	W1-8 (2S)		18	Х	24		3.000		1	1	1				MOUNT HEIGHT 4 FEET

SHEET 1 OF 4

E PROJECT NO: 3190-08-70 COUNTY: MILWAUKEE SHEET: HWY: STH 120 MISCELLANEOUS QUANTITIES – PERMANENT SIGNING

3190-08-70 STH 120

ITPE	RMANENT SIGNII	NG -	1			007.0010	1 007	007.00/5	000	1 000	004 0040	004 0040	000 2/22	T	3190-08-70 STH 120
						637.2210	637.2230	637.2215	638.2602	638.3000	634.0618	634.0816	638.2102		
				TYPE II		SIGNS	SIGNS	SIGNS	REM	REM		POSTS			
	SIGN			SIGN		TYPE II	TYPE II	TYPE II	SIGNS	SMALL	WOOD	TUBULAR	MOVE	MOUNT	
SIGN	CODE	SIGN		SIZE		REFLC	REFLC	REFLC	TYPE	SIGN	POSTS	STEEL	SIGNS	ON SAME	
NO.	& SIZE	MESSAGE	W	X	Н	Н	F	H FOLDING	II	SUPPORTS	4" X 6" X 18'	2" X 2" X 16'	TYPE II	POST AS	
			[IN.]	X	[IN.]	[SF]	[SF]	[SF]	[EA]	[EA]	[EA]	[EA]	[EA]	SIGN#	REMARKS / NEW SIGN LOCATION
36	W1-8 (2S)		18	Х	24		3.000							35	MOUNT HEIGHT 4 FEET
37	W1-8 (2S)		18	X	24		3.000		1	1	1				MOUNT HEIGHT 4 FEET
38	W1-8 (2S)		18	X	24		3.000							37	MOUNT HEIGHT 4 FEET
39	W1-8 (2S)		18	X	24		3.000		1	1	1				MOUNT HEIGHT 4 FEET
40	W1-8 (2S)		18	X	24		3.000							39	MOUNT HEIGHT 4 FEET
41	R1-1 (2S)		30	Х	30	5.180			1	1	1				
42	W14-2									1	1		1		
43	S3-1 (2S)		36	X	36		9.000		1	1	1				
44	W1-7 (2S)		48	X	24		8.000				1				
45	W1-4L (2S)		30	X	30		6.250		1	1	1				
46	W1-4L (2S)		30	Х	30		6.250		1	1	1				
47	W13-1 (2S)	45 MPH	18	X	18		2.250							43	
48	W13-1 (2S)	45 MPH	18	X	18		2.250							44	
49	W1-10L (2S)		30	X	30		6.250							43	
50	W1-10L (2S)		30	X	30		6.250							44	
51	W13-1 (2S)	45 MPH	18	Х	18		2.250							43	
52	W13-1 (2S)	45 MPH	18	X	18		2.250							44	
53	W1-8									1	1		1		MOUNT HEIGHT 4 FEET
54	W1-8													51	MOUNT HEIGHT 4 FEET
55	W1-8									1	1		1		MOUNT HEIGHT 4 FEET
56	W1-8													53	MOUNT HEIGHT 4 FEET
57	W1-8									1	1		1		MOUNT HEIGHT 4 FEET
58	W1-8													55	MOUNT HEIGHT 4 FEET
59	NOT USED														
60	D1-2	[LA] KRUEGER RD / BUCKBY RD [RA]	78	X	30	16.250					2				SHEET 2 OF 6
61	D1-2	[LA] BUCKBY RD / KRUEGER RD [RA]	78	Х	30	16.250					2				SHEET 3 OF 6
62	W1-8 (2S)	. ,	18	X	24	13.230	3.000				1				MOUNT HEIGHT 4 FEET; SHEET 4 OF 6
62A	W1-8 (2S)		18	X	24		3.000							62	MOUNT HEIGHT 4 FEET; SHEET 4 OF 6
63	W1-8			,,	_·					1	1		1		MOUNT HEIGHT 4 FEET; SHEET 5 OF 6
64	W1-8									·				61	MOUNT HEIGHT 4 FEET
65	W1-8									1	1		1		MOUNT HEIGHT 4 FEET
66	W1-8									·				63	MOUNT HEIGHT 4 FEET
67	W1-8									1	1		1		MOUNT HEIGHT 4 FEET
68	W1-8									,	<u>'</u>		·	65	MOUNT HEIGHT 4 FEET
00	** 1 0		1							İ				00	WOOM HEIGHT TILLI

SHEET 2 OF 4

Е PROJECT NO: 3190-08-70 COUNTY: MILWAUKEE SHEET: HWY: STH 120 MISCELLANEOUS QUANTITIES – PERMANENT SIGNING

W1-8

TYPE II PERMANENT SIGNING -

MOUNT HEIGHT 4 FEET

3190-08-70 STH 120

						637.2210	637.2230	637.2215	638.2602	638.3000	634.0618	634.0816	638.2102		
				TYPE II		SIGNS	SIGNS	SIGNS	REM	REM		POSTS			
	SIGN			SIGN		TYPE II	TYPE II	TYPE II	SIGNS	SMALL	WOOD	TUBULAR	MOVE	MOUNT	
SIGN	CODE	SIGN		SIZE		REFLC	REFLC	REFLC	TYPE	SIGN	POSTS	STEEL	SIGNS	ON SAME	
NO.	& SIZE	MESSAGE	W	Х	Н	Н	F	H FOLDING	II	SUPPORTS	4" X 6" X 18'	2" X 2" X 16'	TYPE II	POST AS	
			[IN.]	x	[IN.]	[SF]	[SF]	[SF]	[EA]	[EA]	[EA]	[EA]	[EA]	SIGN#	REMARKS / NEW SIGN LOCATION
70	W1-8													67	MOUNT HEIGHT 4 FEET
71	W1-2R									1	1		1		
72	W13-1	45 MPH												69	
73	J1-1									1	1		1		
	M2-1														
	M1-6	STH 36													
74	S3-1									1	1		1		
75	W1-2R									1	1		1		
76	W13-1	45 MPH												75	
77	W1-6									1	1		1		
78	W1-6													77	
79	J2-2									1	1		1		
	M3-1														
	M1-6	STH 120													
	M6-1														
	M3-1														
	M1-6	STH 36													
	M5-2R														
80	D1-3	EAST TROY/ LYONS BURLINGTON								2	2		1		
81	W3-1									1	1		1		SHEET 6 OF 6
82	12-3	SPRINGFIELD UNINCORPORATED								2	2		1		
83	W1-5									1	1		1		
84	W13-1	45 MPH												83	
85	W21-61								1	1					
86	J3-1								1	1					
	M3-1														
	M1-6	STH 36													
	M6-1														
86A	J3-2 (2S)		24	Χ	57	9.500					1				
	not used														
	not used														
	not used				_										
	M3-1			24 x 1											
	M1-6	STH 36		24 x 2											
	M6-1		2	21 x 2	21										

SHEET 3 OF 4

E PROJECT NO: 3190-08-70 COUNTY: MILWAUKEE SHEET: HWY: STH 120 MISCELLANEOUS QUANTITIES – PERMANENT SIGNING

TYPE II PERMANENT SIGNING -

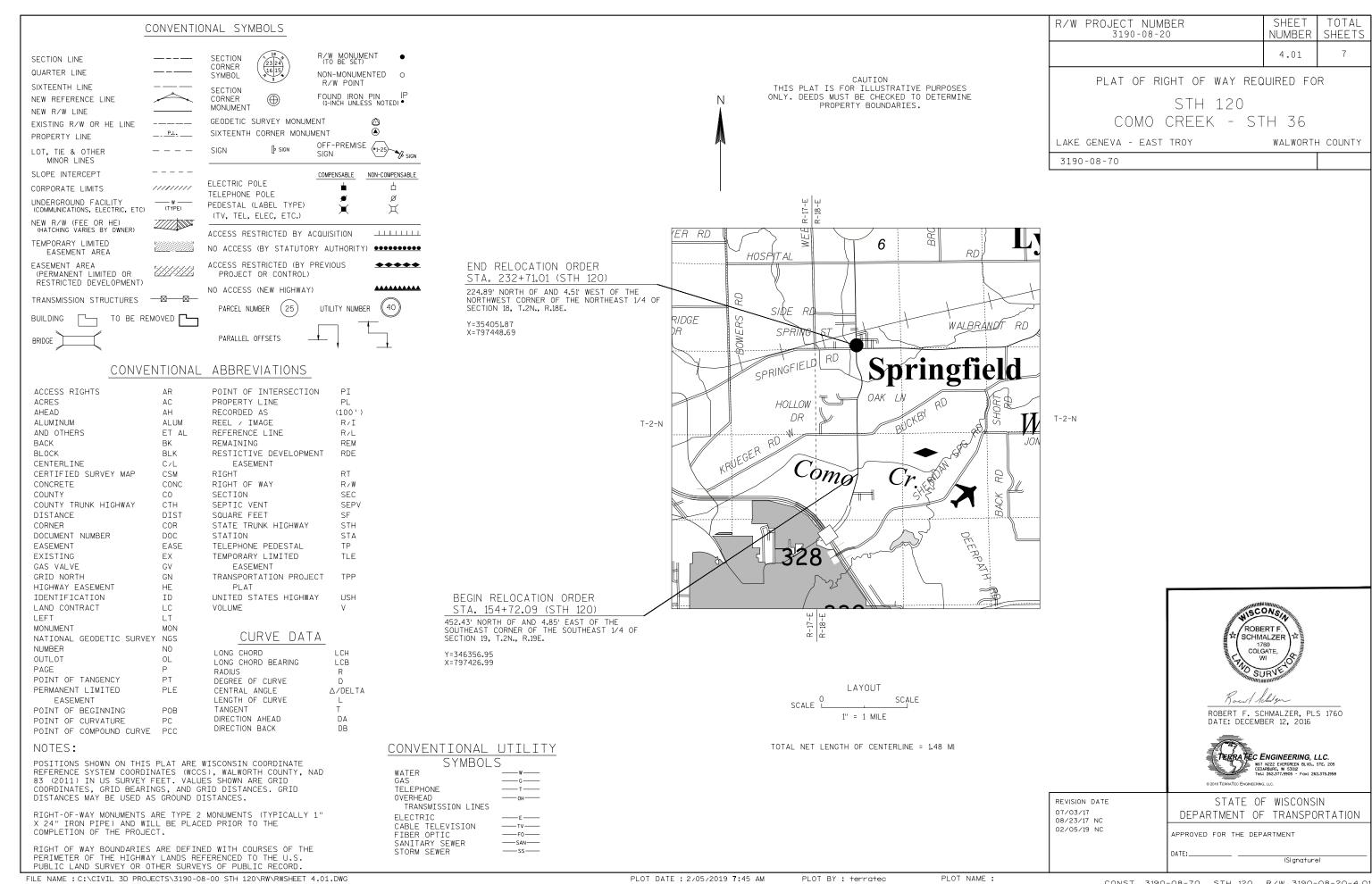
3190-08-70 STH 120

	RIVANENT SIGNIN					637.2210	637.2230	637.2215	638.2602	638.3000	634.0618	634.0816	638.2102		3190-06-70 31H 120
				TYPE I	I	SIGNS	SIGNS	SIGNS	REM	REM	00-1.0010	POSTS	000.2102		
	SIGN			SIGN		TYPE II	TYPE II	TYPE II	SIGNS	SMALL	WOOD	TUBULAR	MOVE	MOUNT	
SIGN	CODE	SIGN	10/	SIZE		REFLC	REFLC	REFLC	TYPE	SIGN	POSTS	STEEL	SIGNS	ON SAME	
NO.	& SIZE	MESSAGE	W [IN.]	X x	H [IN.]	H [SF]	F [SF]	H FOLDING [SF]	II [EA]	SUPPORTS [EA]	4" X 6" X 18' [EA]	2" X 2" X 16' [EA]	TYPE II [EA]	POST AS SIGN#	REMARKS / NEW SIGN LOCATION
87	R1-2 (2S)		36	Χ	31	3.875			1	1	1				
88	R5-1 (2S)		30	Χ	30	6.250								87	
89	R12-1	WEIGHT LIMIT 40 TONS WISDOT							1	1					REMOVES 40 TON BRIDGEAHEAD SIGN
90	NOT USED														
91	W1-5									1	1		1		SHEET 6 OF 6
92	W13-1	45 MPH												83	
93	R2-1	SPEED LIMIT 55								2	1		1		
94	J4-1 (2S)		24	Χ	36	6.000				1	1				REMOVES SPARE POST
	M3-3		24	X	12										
	M1-6	STH 120	24	Х	24										
95	D2-1	LAKE GENEVA 3								2	2		1		REMOVES M3-3 SIGN
96	R1-1 (2S)		30	Χ	30	5.180			1	1	1				
97	R1-3P (2S)		18	Χ	6	0.750								96	
98	R1-1 (2S)		30	Χ	30	5.180			1	1	1				
99	R1-3P (2S)		18	Χ	6	0.750								98	
100	R1-1 (2S)		30	Χ	30	5.180			1	1	1				REMOVES MT ZION CHURCH SIGN
101	R1-3P (2S)		18	Χ	6	0.750								100	
102	R1-1 (2S)		30	Χ	30	5.180			1	1	1				
103	R1-3P (2S)		18	Χ	9	1.125								102	
104	W1-8 (2S)		18	Χ	24		3.000				1				MOUNT HEIGHT 4 FEET; SHEET 4 OF 6
105	W1-8 (2S)		18	Χ	24		3.000							104	MOUNT HEIGHT 4 FEET; SHEET 4 OF 6
106	W1-8 (2S)		18	Χ	24		3.000				1				MOUNT HEIGHT 4 FEET; SHEET 5 OF 6
106A	W1-8 (2S)		18	Χ	24		3.000							106	MOUNT HEIGHT 4 FEET; SHEET 5 OF 6
107	R2-6P(2S)		24	Χ	18		3.000								SHEET 1 OF 6. MOUNT UNDER EXISTING S
	TOTALS					128.120	90.000	0.000	22	63	68	0	36		

SHEET 4 OF 4

E PROJECT NO: 3190-08-70 COUNTY: MILWAUKEE SHEET: HWY: STH 120 MISCELLANEOUS QUANTITIES – PERMANENT SIGNING

TYPE II PERMANENT SIGNING -



SCHEDULE OF LANDS AND INTEREST

"OWNERS" NAMES ARE SHOWN FOR REFERENCE PURPOSES ONLY, AND ARE SUBJECT TO CHANGE PRIOR TO TRANSFER OF LAND INTERESTS TO WISCONSIN DEPARTMENT OF TRANSPORTATION. AREAS SHOWN IN THE TOTAL ACRES COLUMN MAY BE APPROXIMATE AND ARE DERIVED FROM TAX ROLLS OR OTHER AVAILABLE SOURCES AND MAY NOT INCLUDE LANDS OF THE OWNER WHICH ARE NOT CONTIGUOUS TO THE AREA TO BE ACQUIRED.

PARCEL	SHEET	OWNER	INTEREST	TOTAL ACRES		EA ACRES RE		TOTAL ACRES	PLE	TLE
NUMBER	NUMBER		REQUIRED	EXISTING PARCEL	NEW	EXISTING	TOTAL	REMAINING	ACRES REQUIRED	ACRES REQUIRED
1 (3)	4.04	MIRIAM H. HOUCK	FEE/TLE	5.347 *	0.037	0.133	0.170	5.177	-	0.052
2	4.04	MT. ZION CHRISTIAN TEMPLE, INC.	FEE	14.998	0.166	-	0.166	14.832	_	-
3	4.04	STEVE KONTOYANNIS & CLEO KONTOYANNIS	FEE	10.000	0.059	0.467	0.526	9.474	_	-
4	4.04	ELLSWORTH E. KROHN JR. & AMELIA M. KROHN	FEE	1.838	0.005	0.024	0.029	1.809	-	-
5	4.04	ELLSWORTH E. KROHN JR. & AMELIA M. KROHN JOINT REVOCABLE TRUST	FEE	1.151 *	0.006	0.031	0.037	1.114	-	-
6	4.04	MT. FUGI DEVELOPMENT CORPORATION	FEE	0.351 *	0.072	0.190	0.262	0.089	-	-
7	4.04	ROBERT S. PETERS & ABBY J. PETERS	FEE	0.345	0.017	0.036	0.053	0.292	-	-
8 (2)	4.05	MARK J. POTTER	FEE/TLE	5.00	0.090	0.535	0.625	4.375	-	0.010
					-	-	-		-	-
10	4.05	MANEE GRETHE MARITAL TRUST	FEE	71.868	0.312	0.573	0.885	70.983	-	-
11	4.05	JOSEPH L. & MARILYN H. D'LUGOSA	TLE	2,656	-	-	-	2.656	-	0.013
					-	-	-		-	-
13	4.06	RICHARD A. ADAMS, TRUSTEE - RICHARD A. ADAMS SELF DECLARATION OF TRUST DATED JULY 24, 1996	FEE	105.957	0.041	0.165	0.206	105.751	-	-
14	4.07	RUTH A. VORPAGEL TRUST	FEE	14.160	0.003	-	0.003	14.157	-	-

^{*} COMPUTED ACREAGE

UTILITY NUMBER	SHEET NUMBER	OWNER	
90	4.04, 4.05, 4.06	AT&T OF WISCONSIN	RELEASE OF RIGHTS
91 (3)		ELIMINATED	

REVISION DATE 07/03/17 08/23/17 02/05/19

DATE: 01/17/2017

GRID FACTOR N/A

SCALE, FEET N/A

HWY: STH 120 COUNTY: WALWORTH

PLOT BY: terratec

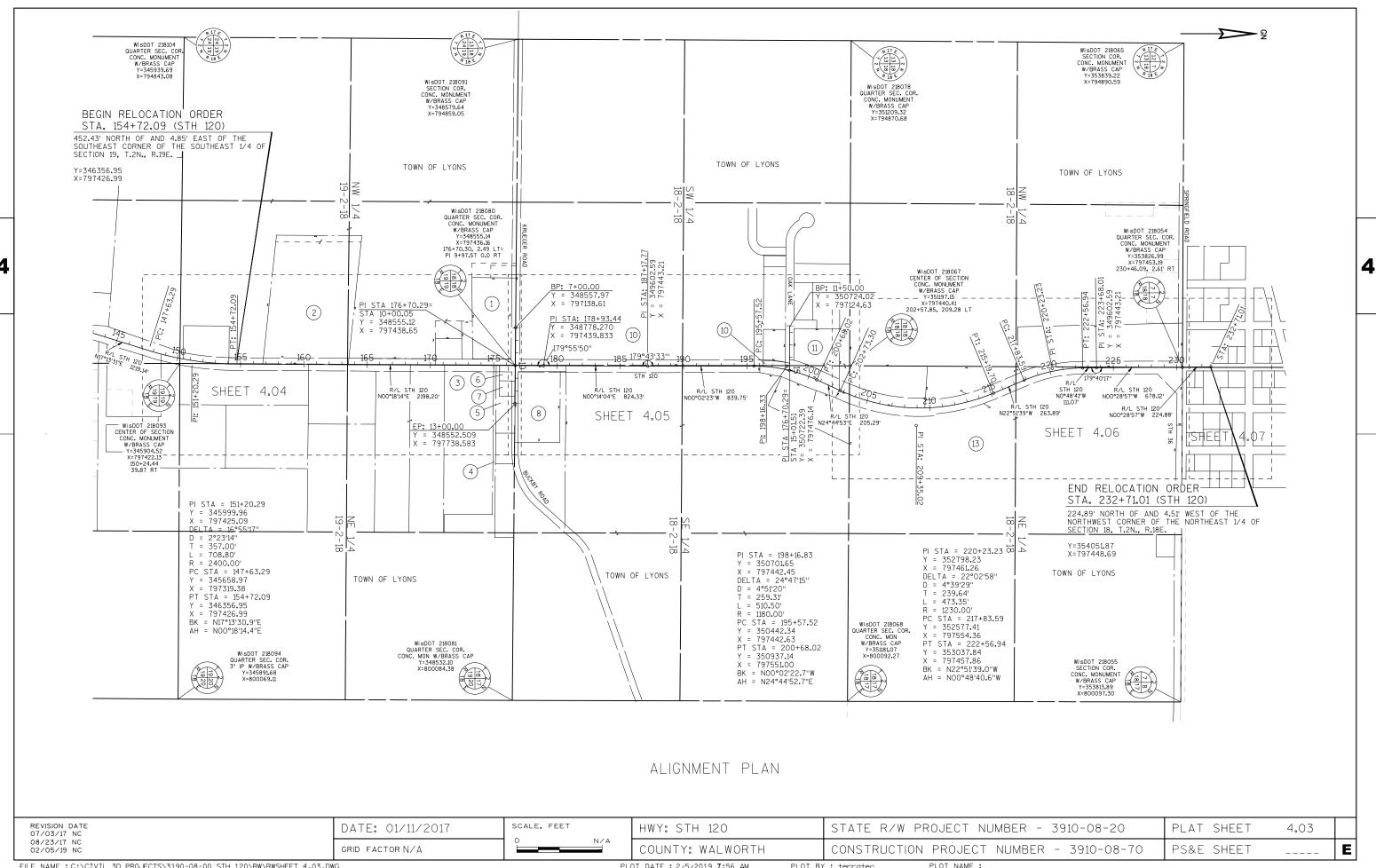
STATE R/W PROJECT NUMBER - 3190-08-20 CONSTRUCTION PROJECT NUMBER - 3190-08-70

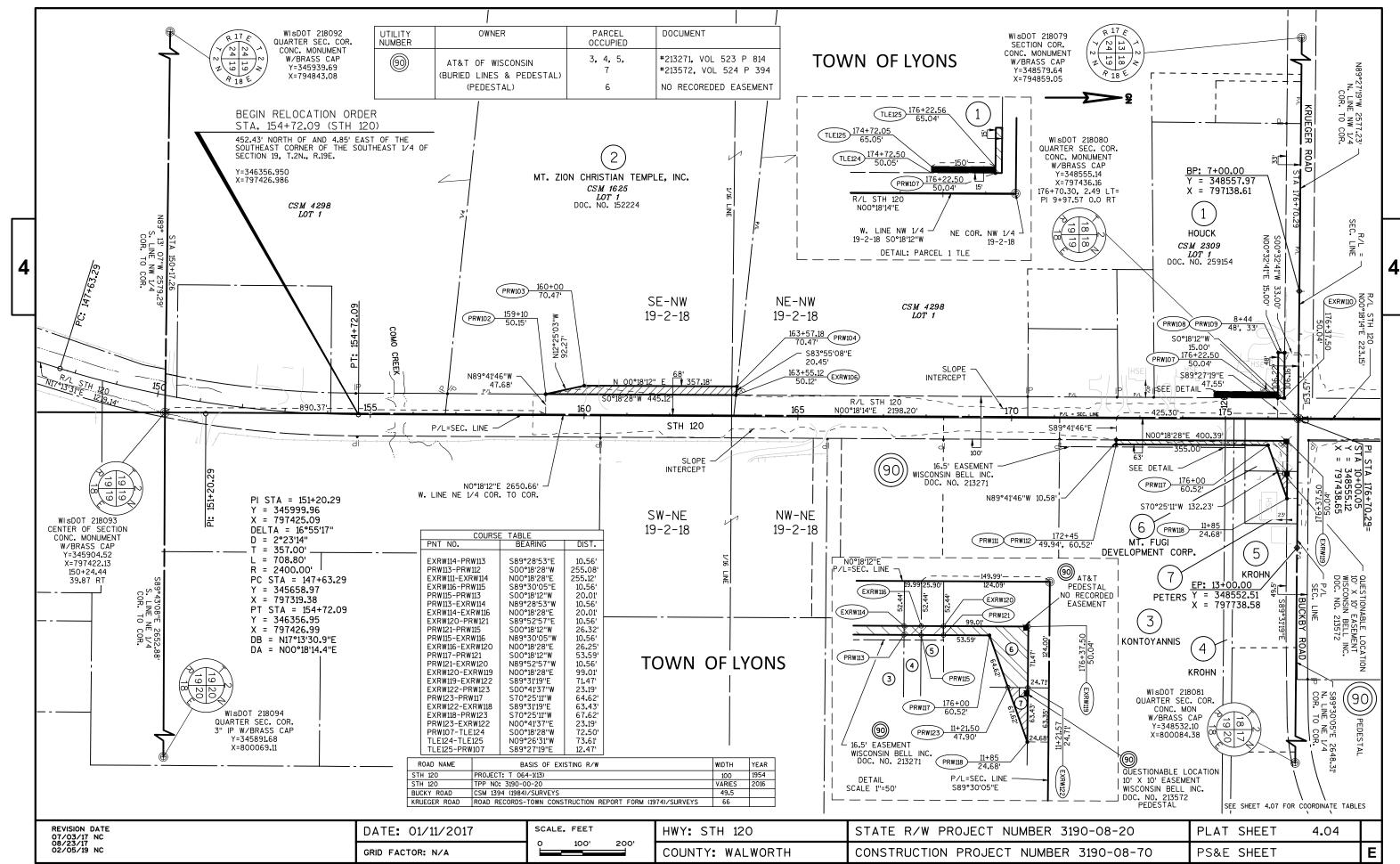
PS&E SHEET

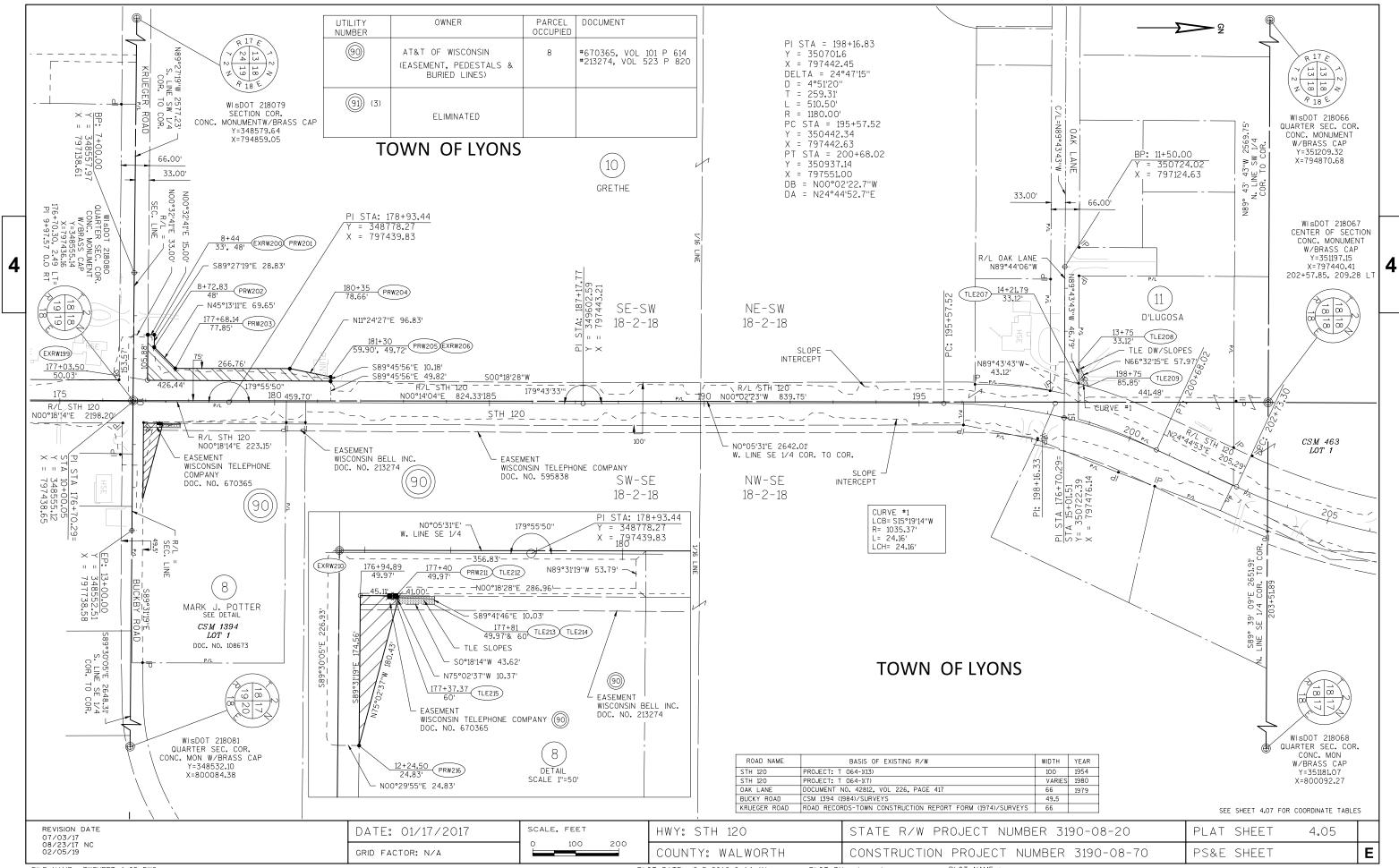
4.02

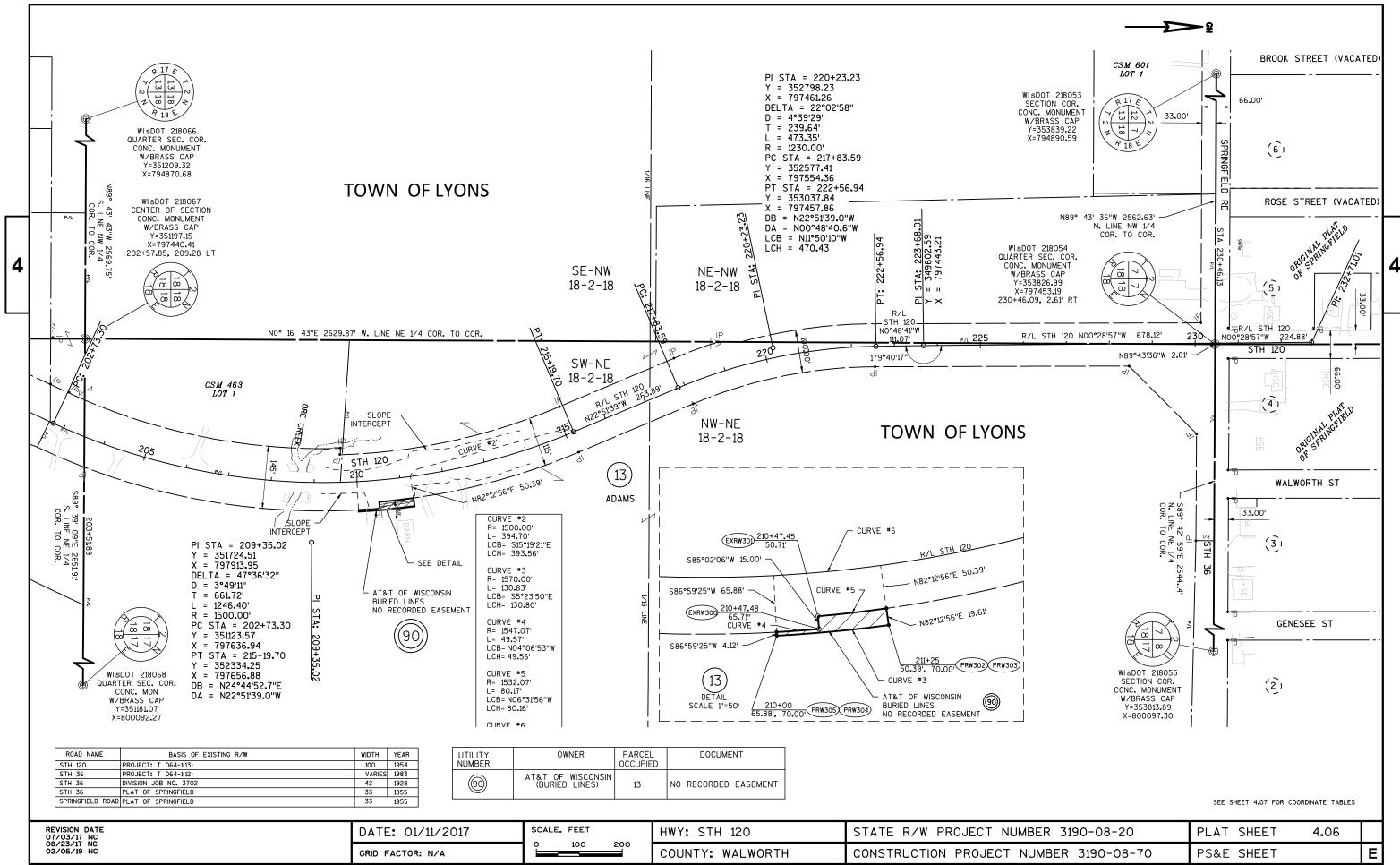
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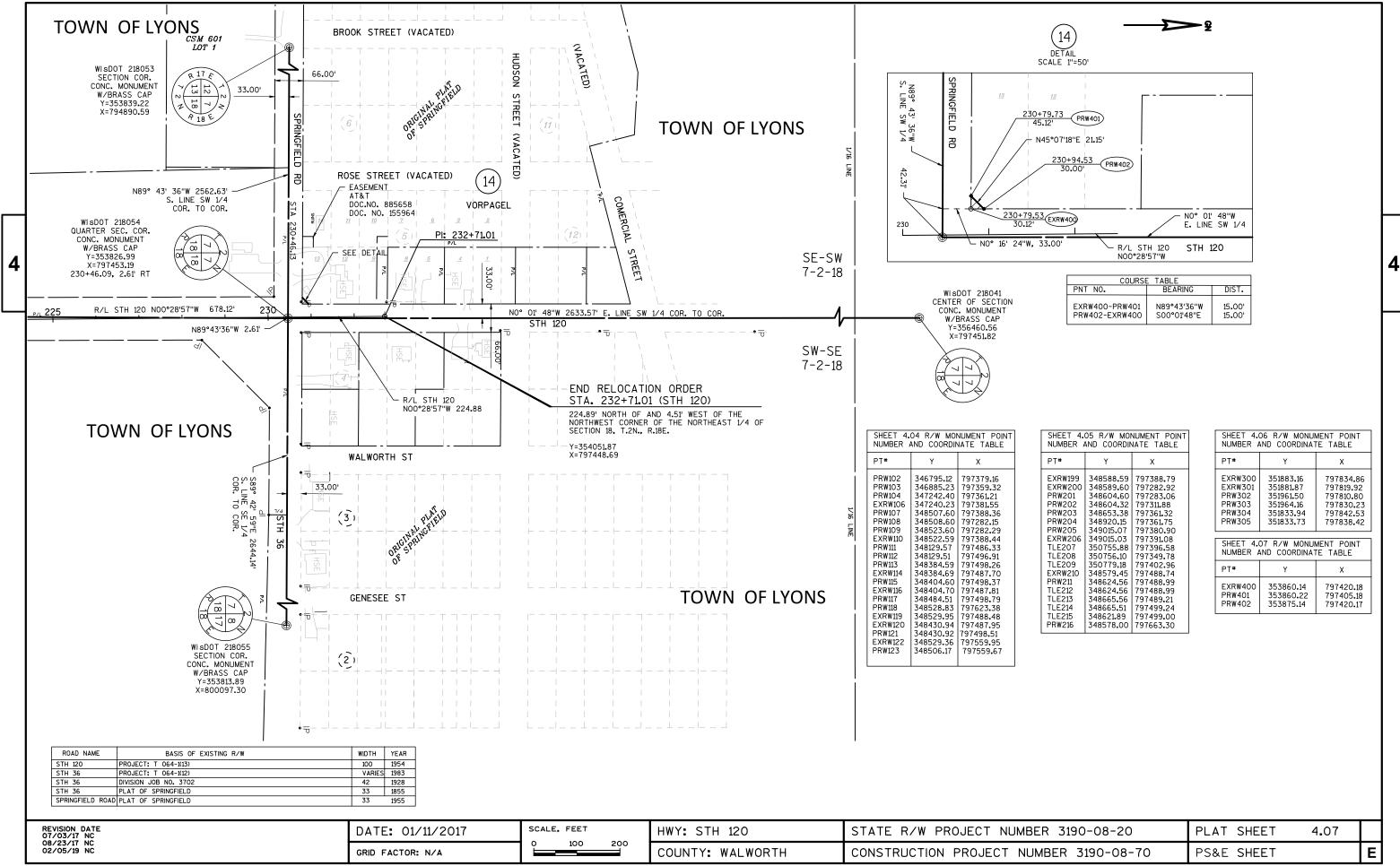
PLAT SHEET



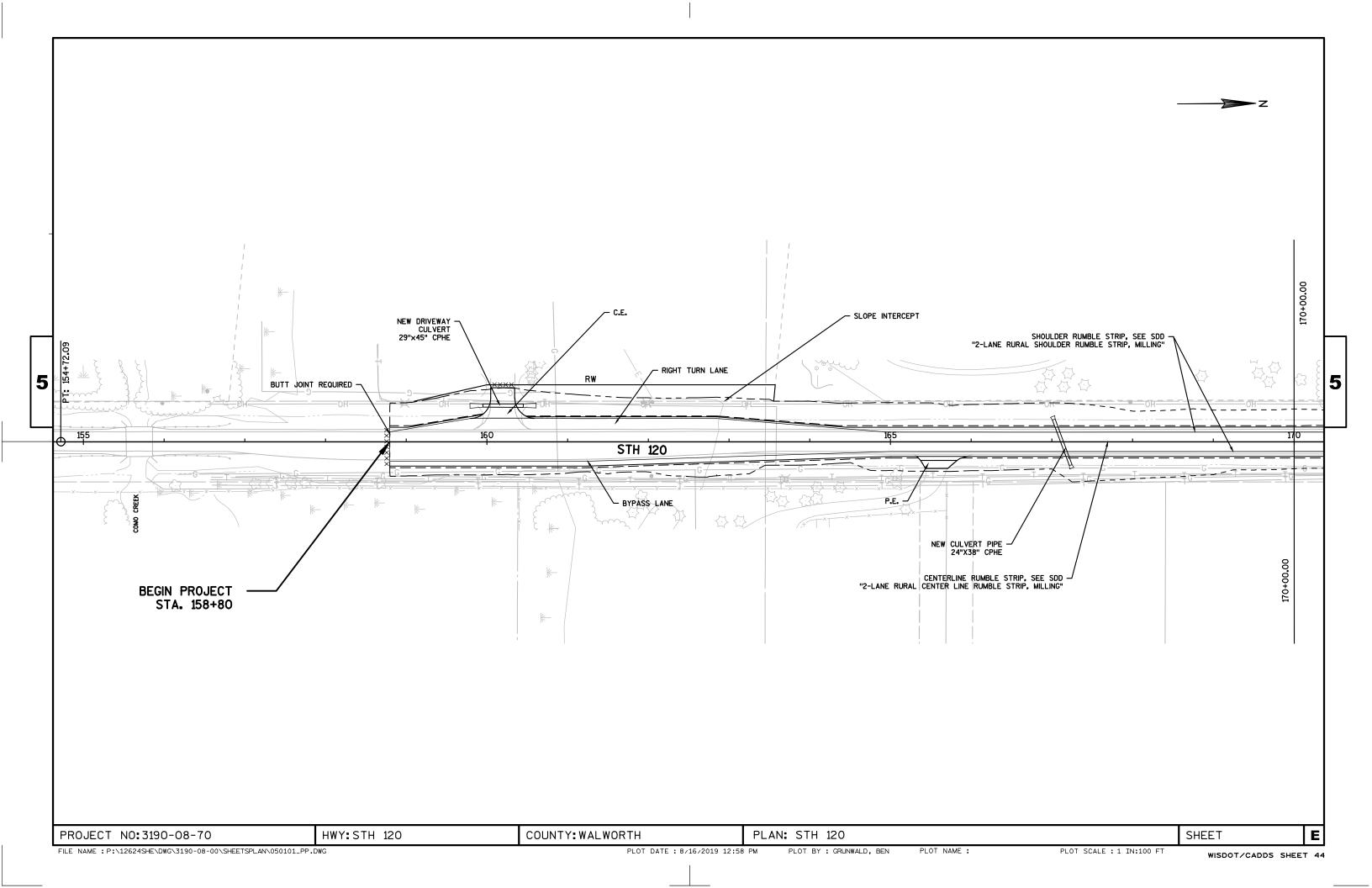


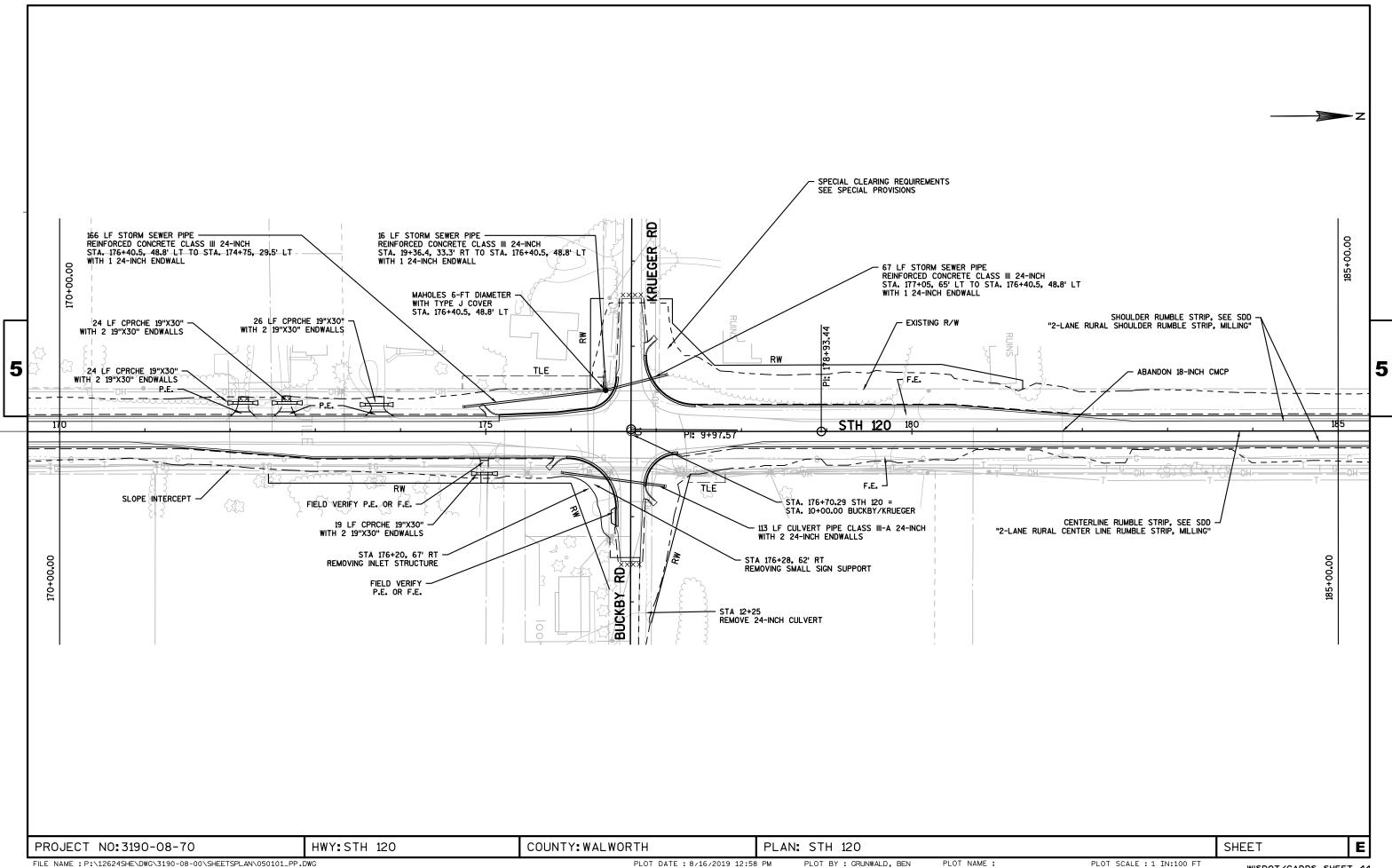


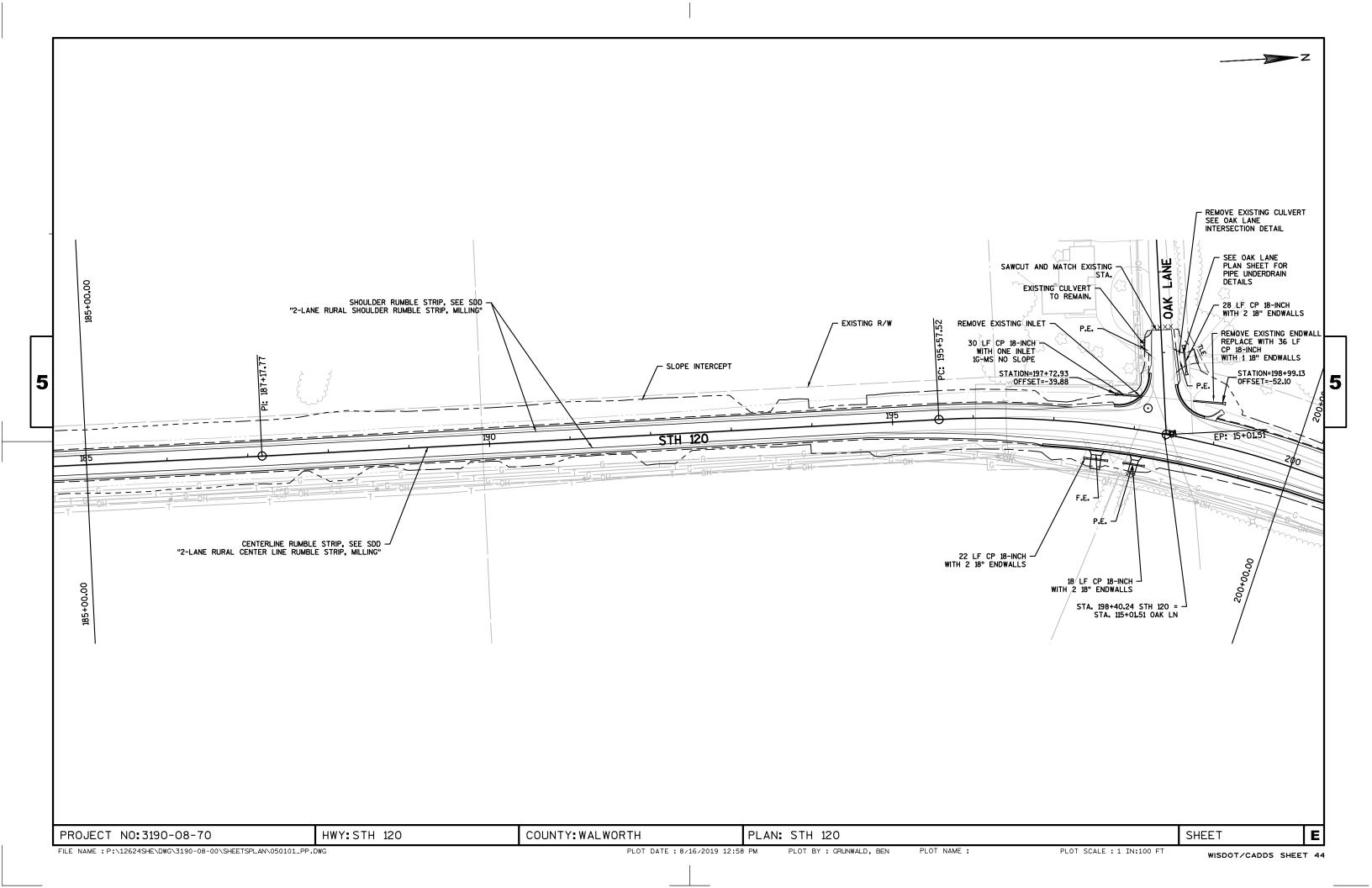


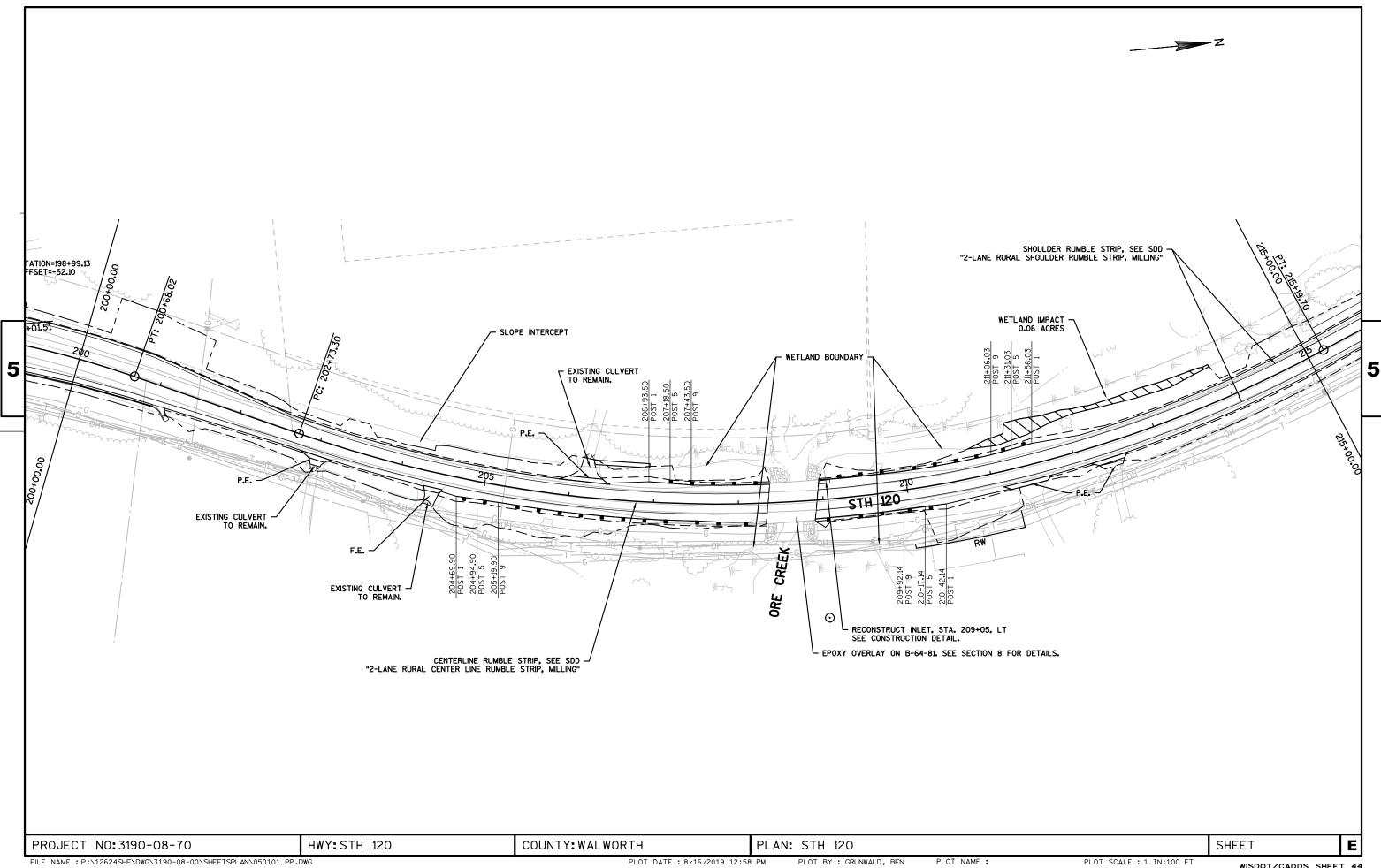


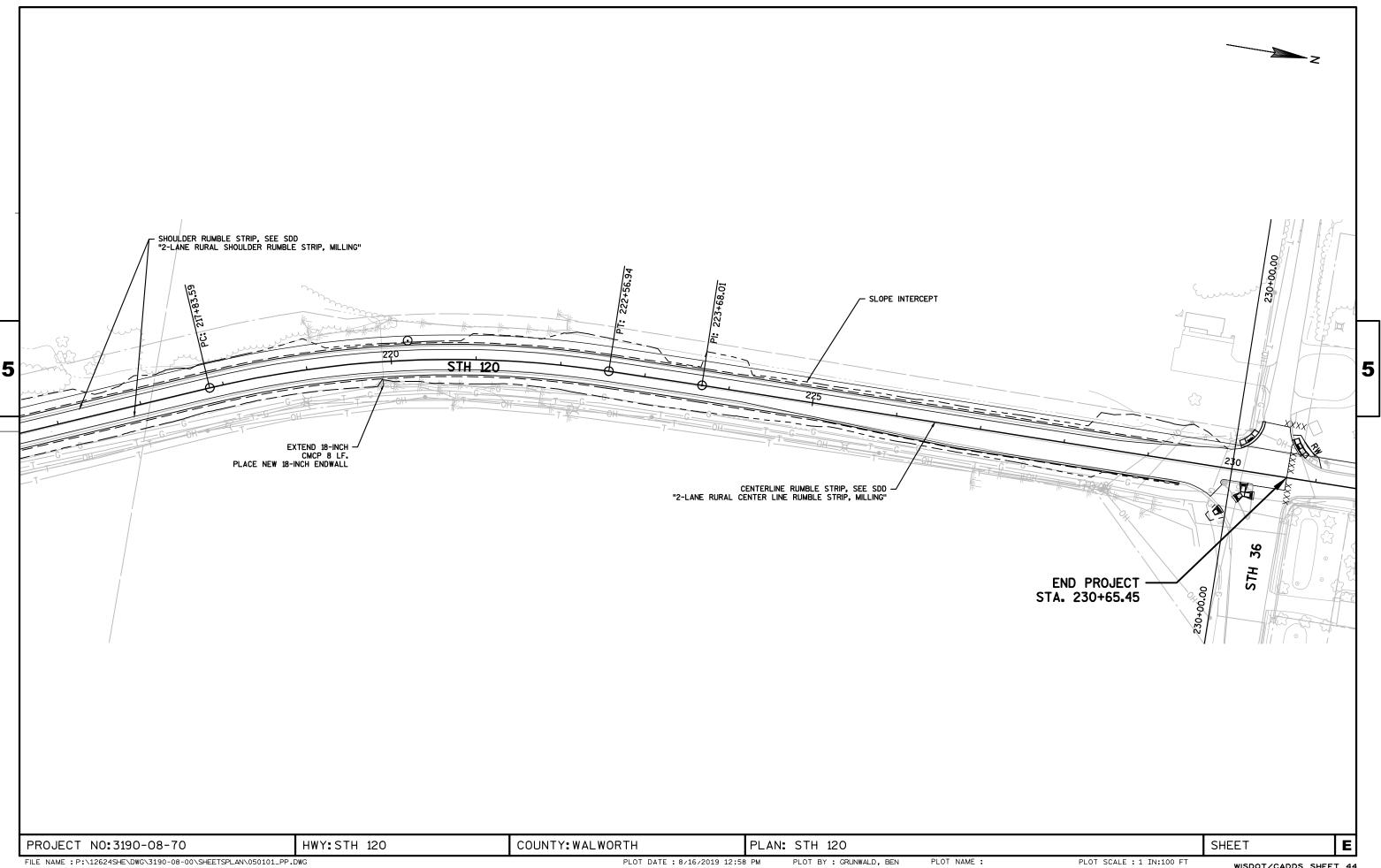
FILE NAME : RWSHEET 4.07.DWG PLOT BY : terratec PLOT NAME : CONST. 3190-08-70 STH 120 R/W 3190-08-20-4.07

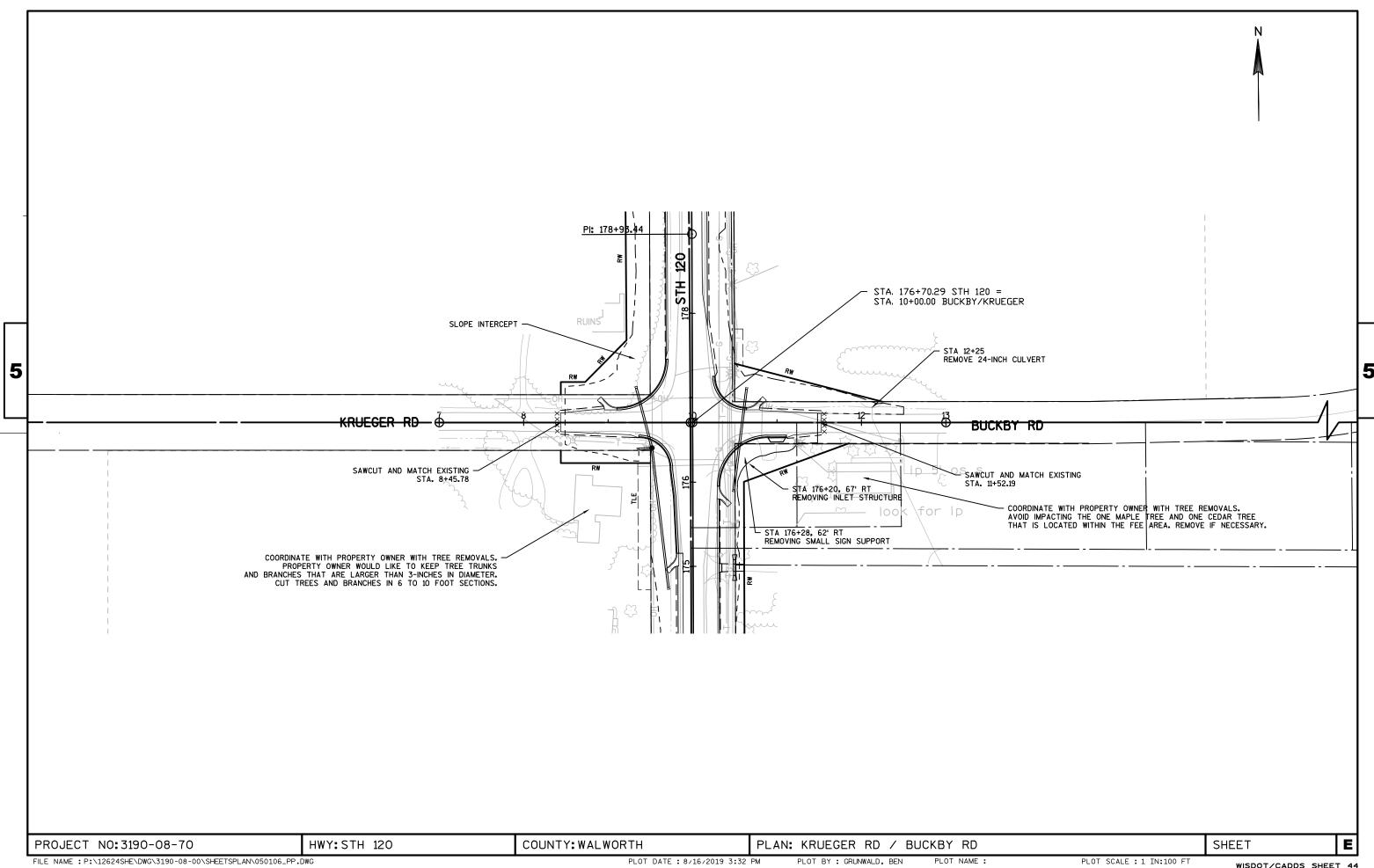


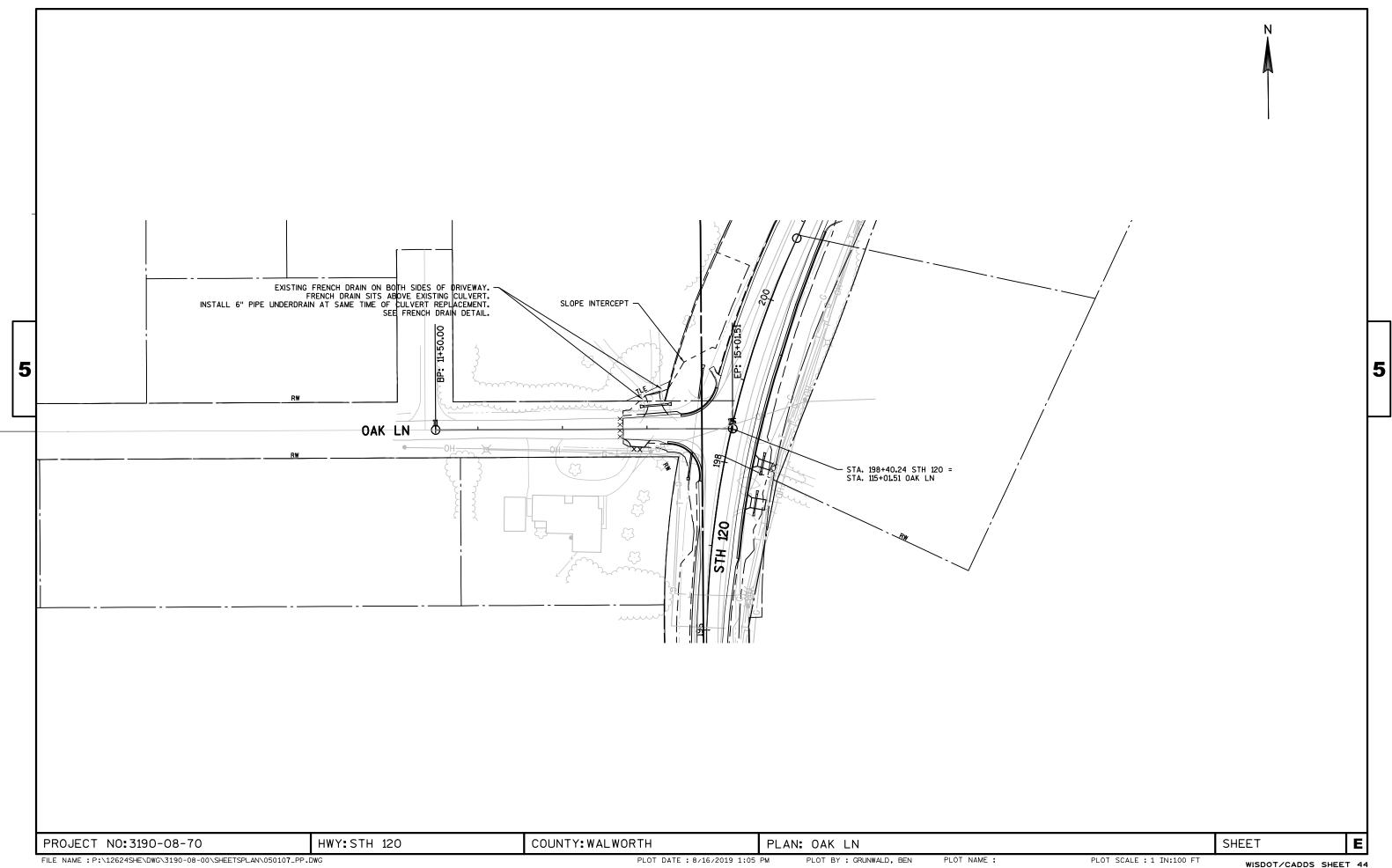










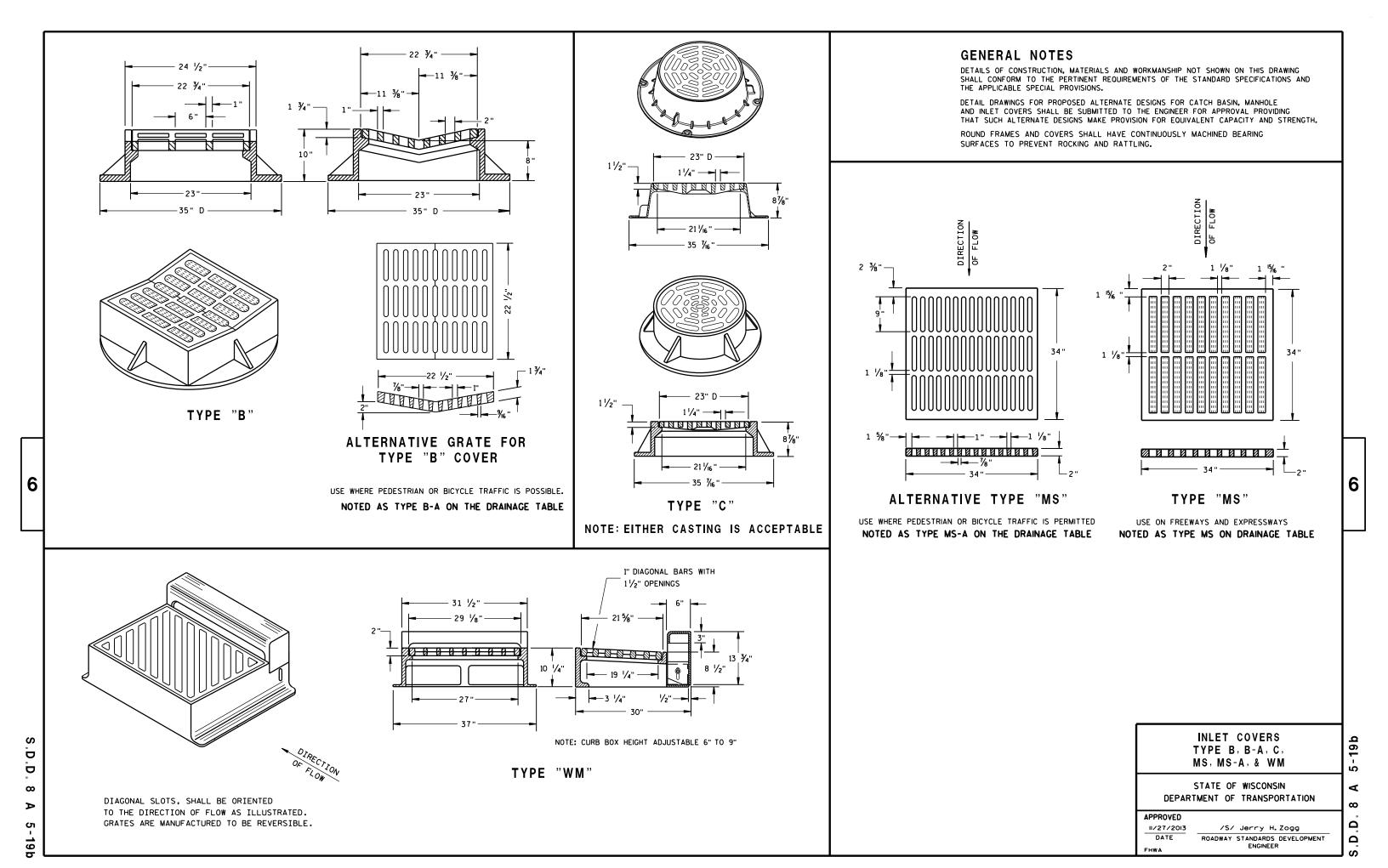


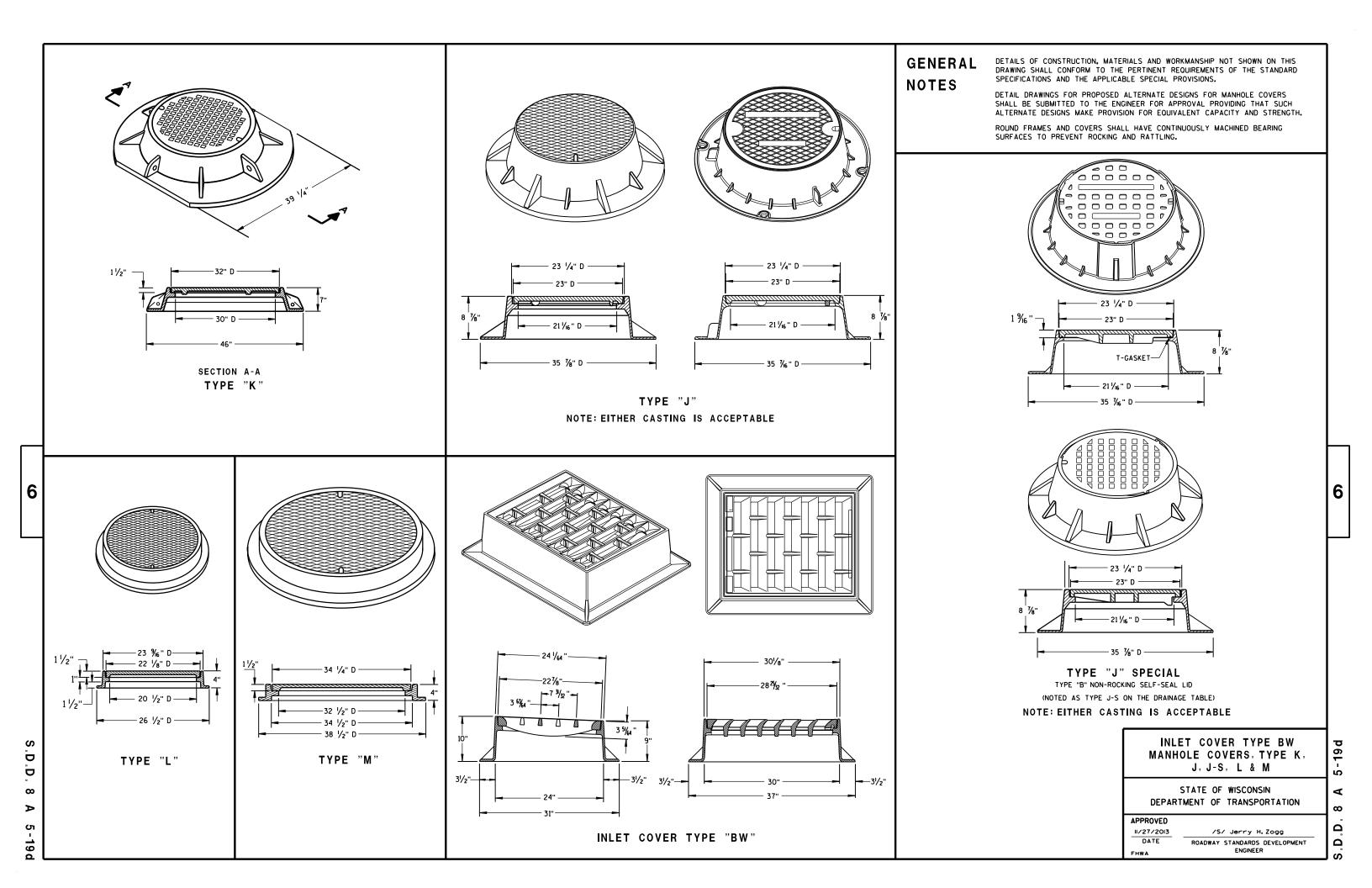
WISDOT/CADDS SHEET 44

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Standard Detail Drawing List

08A05-19B	INLET COVERS TYPE B, B-A, C, MS, MS-A, & WM
08A05-19D	INLET COVER TYPE BW, MANHOLE COVERS, TYPE K, J, J-S, L & M
08B09-02	MANHOLES 3-FT, 4-FT, 5-FT, 6-FT, 7-FT AND 8-FT DIAMETER
08C08-02	INLETS MEDIAN 1 AND 2 GRATE
08D01-20A	CONCRETE CURB & GUTTER
08D01-20B	
	CONCRETE CURB, TIES AND CURB AND GUTTER APPLICATIONS
08D04-05	CONCRETE SURFACE DRAINS & ASPHALTIC FLUMES
08D05-19A	CURB RAMPS TYPES 1 AND 1-A
08D05-19B	CURB RAMPS TYPES 2 AND 3
08D05-19C	CURB RAMPS TYPES 4A AND 4A1
08D05-19D	CURB RAMPS TYPE 4B AND 4B1
08D05-19E	CURB RAMPS TYPES 5, 6, 7A, 7B & 8
08D05-19F	CURB RAMPS RADIAL DETECTABLE WARNING FIELD APPLICATIONS
08D05-19G	CURB RAMPS RECTANGULAR AND RADIAL DETECTABLE WARNING PLATES
08D22-01	DRIVEWAYS WITHOUT CURB & GUTTER RESURFACING PROJECTS RURAL
08E08-03	TYPICAL INSTALLATIONS OF EROSION BALES / TEMPORARY DITCH CHECKS
08E09-06	SILT FENCE
08E10-02	INLET PROTECTION TYPE A, B, C AND D
08F01-11	APRON ENDWALLS FOR CULVERT PIPE
08F02-01	APRON ENDWALLS FOR PIPE ARCH AND ELLIPTICAL PIPE
08F04-07	JOINT TIES FOR CONCRETE PIPE AND CONCRETE COLLAR DETAIL
08F06-04	REINFORCED CONCRETE APRON ENDWALL FOR PIPE UNDERDRAIN
09A01-13A	AT-GRADE SIDE ROAD INTERSECTION, TYPES "B1", "B2", "C" AND D AND TEE INTERSECTION BYPASS LANE
09A01-13B	AT-GRADE SIDE ROAD INTERSECTION, TYPE "A1" & "A2"
13A05-05A	SHOULDER RUMBLE STRIP, MILLING
13A05-05B	SHOULDER RUMBLE STRIP, MILLING
13A10-02A	2-LANE RURAL SHOULDER RUMBLE STRIP, MILLING
13A10-02B	2-LANE RURAL SHOULDER RUMBLE STRIP, MILLING
13A10-02C	2-LANE RURAL SHOULDER RUMBLE STRIP, MILLING
13A10-02D	2-LANE RURAL SHOULDER RUMBLE STRIP, MILLING
13A11-03A	2-LANE RURAL CENTER LINE RUMBLE STRIP, MILLING
13A11-03B	2-LANE RURAL CENTER LINE RUMBLE STRIP, MILLING
14B42-06A	MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRÁIL
14B42-06B	MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL
14B42-06C	MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL
14B42-06D	MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL
14B44-04A	MIDWEST GUARDRAIL SYSTEM ENERGY ABSORBING TERMINAL (MGS)
14B44-04B	MIDWEST GUARDRAIL SYSTEM ENERGY ABSORBING TERMINAL (MGS)
14B44-04C	MIDWEST GUARDRAIL SYSTEM ENERGY ABSORBING TERMINAL (MGS)
14B45-05A	MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
14B45-05B	MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
14B45-05C	MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
14B45-05D	MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
15A01-13A	MARKER POST FOR RIGHT-OF-WAY
15C04-05	TRAFFIC CONTROL, ADVANCE WARNING SIGNS 45 M.P.H. OR GREATER TWO-WAY UNDIVIDED ROAD OPEN TO TRAFFIC
15c06-09	SIGNING & MARKING FOR TWO LANE BRIDGES
15C07-14B	PAVEMENT MARKING WORDS
15C07-14C	PAVEMENT MARKING ARROWS
15C08-19A	LONGITUDINAL MARKING (MAINLINE)
15C08-19B	PAVEMENT MARKING (TURN LANES)
15C08-19C	PAVEMENT MARKING (TURN LANES)
15C11-07B	CHANNELIZING DEVICES DRUMS, CONES, BARRICADES AND VERTICAL PANELS
15C12-06	TRAFFIC CONTROL FOR LANE CLOSURE WITH FLAGGING OPERATION
15C19-05A	MOVING PAVEMENT MARKING OPERATION TWO-LANE TWO-WAY ROADWAY
15c33-03	STOP LINE AND CROSSWALK PAVEMENT MARKING
15C35-03A	PAVEMENT MARKING (INTERSECTIONS)
15C35-03B	PAVEMENT MARKING AND SIGNING (CLIMBING LANE & PASSING LANE)
15C35-03C	PAVEMENT MARKING AND SIGNING (CLIMBING LANE & PASSING LANE)
15D20-04	TRAFFIC CONTROL, SINGLE LANE CLOSURE, NON-FREEWAY/EXPRESSWAY
15D28-03	TRAFFIC CONTROL, WORK ON SHOULDER OR PARKING LANE, UNDIVIDED ROADWAY
15D38-02A	TEMPORARY TRAFFIC CONTROL SIGN MOUNTING
15D38-02A	ATTACHMENT OF SIGNS TO POSTS
16A01-07	LANDMARK REFERENCE MONUMENTS AND COVERS
TOMOT-01	LANDHARK RELEMENCE PROMOPERTS AND COVERS



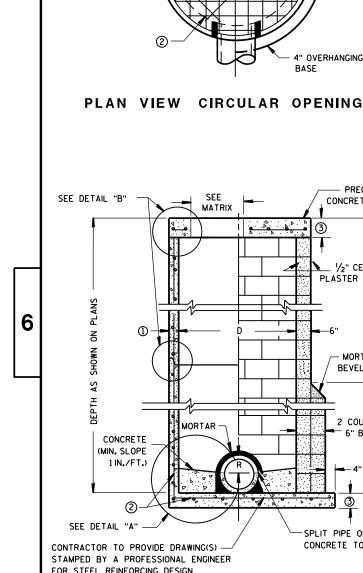


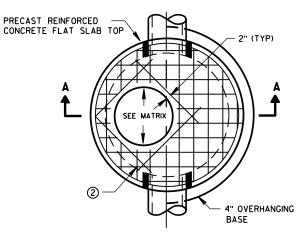


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SEE

MATRIX

SEE __ MATRIX **PRECAST** REINFORCED CONCRETE RISERS

OPTIONAL PRECAST REINFORCED CONCRETE **ECCENTRIC TOP**

PRECAST

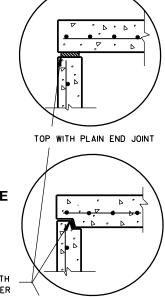
WALL

PRECAST REINFORCED

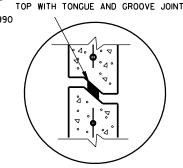
CONCRETE FLAT SLAB TOP

CONCRETE BASE 2

OPTIONAL PRECAST REINFORCED CONCRETE CONCENTRIC TOP

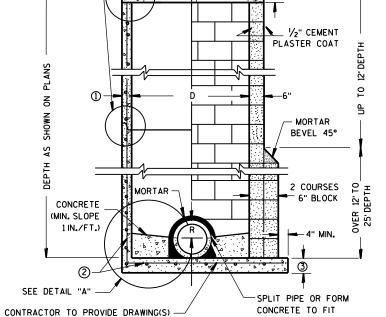


JOINTS TO BE SEALED WITH A BUTYL RUBBER SEAL PER SEALANT MANUFACTURERS RECOMMENDATIONS CONFORMING TO ASTM C990 (TYP)

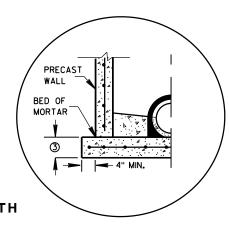


RISER WITH TONGUE AND GROOVE JOINT

DETAIL "B'



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

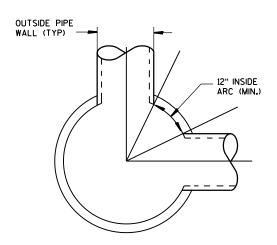


PRECAST REINFORCED

CONCRETE WITH INTEGRAL BASE OPTION

SEPARATE PRECAST REINFORCED CONCRETE BASE OPTION

DETAIL "A"



DETAIL "C"

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

GENERAL NOTES

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

MANHOLE COVER OPENING MATRIX

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

PIPE MATRIX

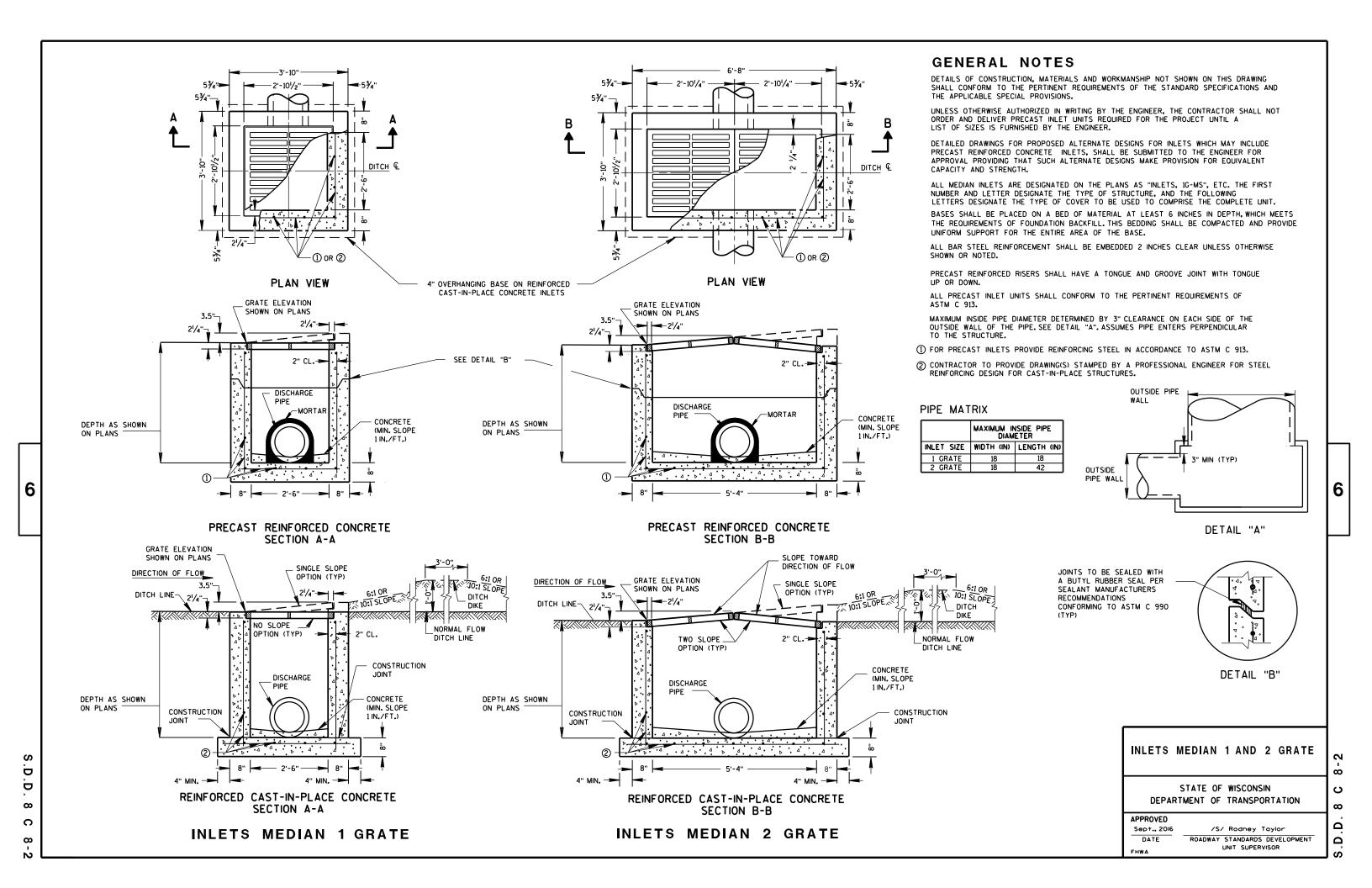
MANHOLE SIZE	MAXIMUM INSIDE PIPE DIAMETER FOR TWO PIPES						
	180° SEPARATION (IN)	90° SEPARATION (IN)					
3-FT	15	12					
4-FT	24	18					
5-FT	36	24					
6-FT	42	36					
7-FT	48	36					
8-FT	60	42					

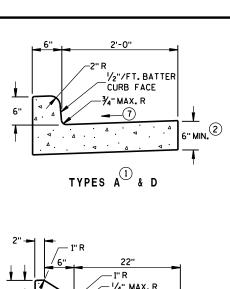
MANHOLES 3-FT, 4-FT, 5-FT, 6-FT 7-FT AND 8-FT DIAMETER

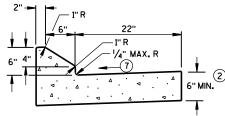
> STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

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

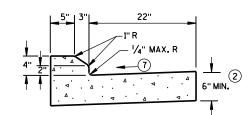
ELOPMENT



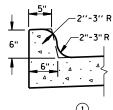




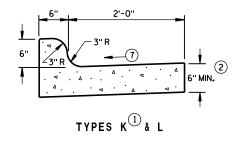
6" SLOPED CURB TYPES G 4 J



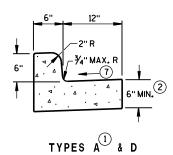
4" SLOPED CURB TYPES G 4 J



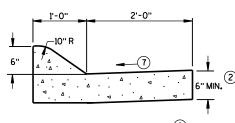
TYPES K (1) & L (OPTIONAL CURB SHAPE)



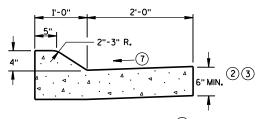
CONCRETE CURB & GUTTER 30"



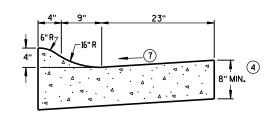
CONCRETE CURB & GUTTER 18"



6" SLOPED CURB TYPES A & D

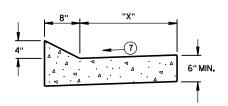


4" SLOPED CURB TYPES A D



4" SLOPED CURB TYPES R T & T

CONCRETE CURB & GUTTER 36"



TYPES TBT & TBTT

CONCRETE CURB & GUTTER

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

GENERAL NOTES

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

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

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

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

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

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

PAVEMENT THICKNESS AND MAXIMUM CONCRETE PANEL WIDTH TABLE

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

6

20a

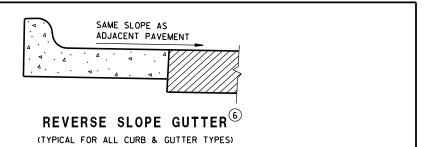
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CONCRETE PANEL WIDTH SAME PAY LIMITS TRAFFIC TRAFFIC LANE -AS CURB & GUTTER LANE PAVEMENT SLOPE PAVEMENT THICKNESS

PARTIAL SECTION OF PAVEMENT WITH INTEGRAL CURB & GUTTER



CONCRETE CURB & GUTTER

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

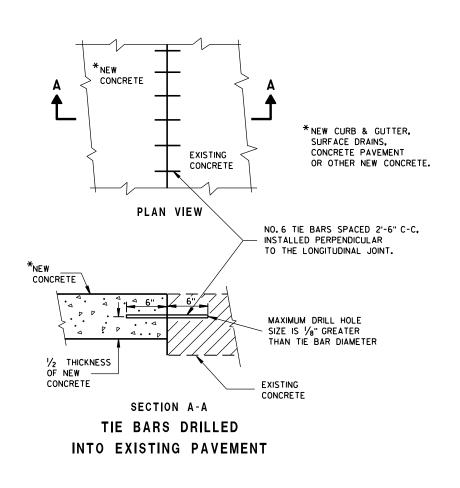
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^{*} BIKE LANE IS NOT SHOWN.

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

CONTRACTION **PAVEMENT**

END SECTION CURB & GUTTER



GENERAL NOTES

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

ADJACENT

PAVEMENT

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

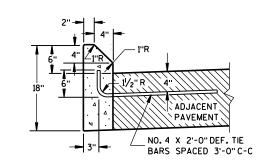
BARS SPACED 3'-0" C-C

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

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

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

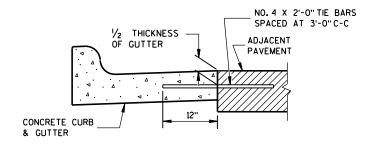
- 1) TIE BARS ARE REQUIRED FOR CURB AND GUTTER TYPES A.G.K.R AND TBTT.
- 2 THE BOTTOM OF CURB AND GUTTER MAY BE CONSTRUCTED EITHER LEVEL OR PARALLEL TO THE SLOPE OF THE SUBGRADE OR BASE AGGREGATE PROVIDED A 6" MINIMUM GUTTER THICKNESS IS MAINTAINED.
- (9) REFER TO SDD 8D18 AND SDD 8D19 FOR ADDITIONAL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



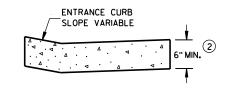
TYPES A D

TYPES G 4 J

CONCRETE CURB



TYPICAL TIE BAR LOCATION 1



DRIVEWAY ENTRANCE CURB (9)

(WHEN DIRECTED BY THE ENGINEER)

CONCRETE CURB, TIES AND CURB AND GUTTER APPLICATIONS

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

/S/ Rodney Taylor June, 2017 DATE

ROADWAY STANDARDS DEVELOPMENT UNIT SUPERVISOR

6

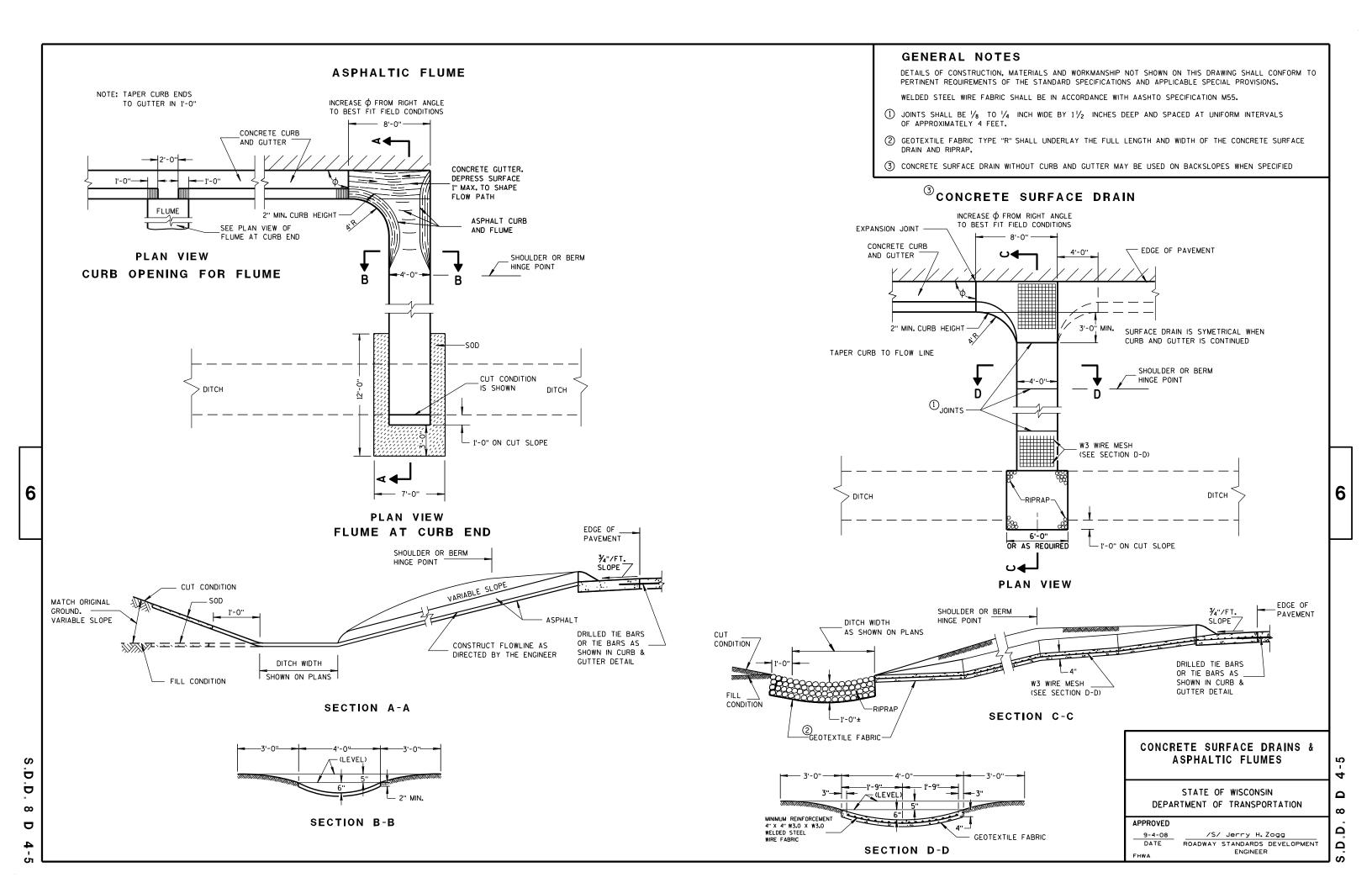
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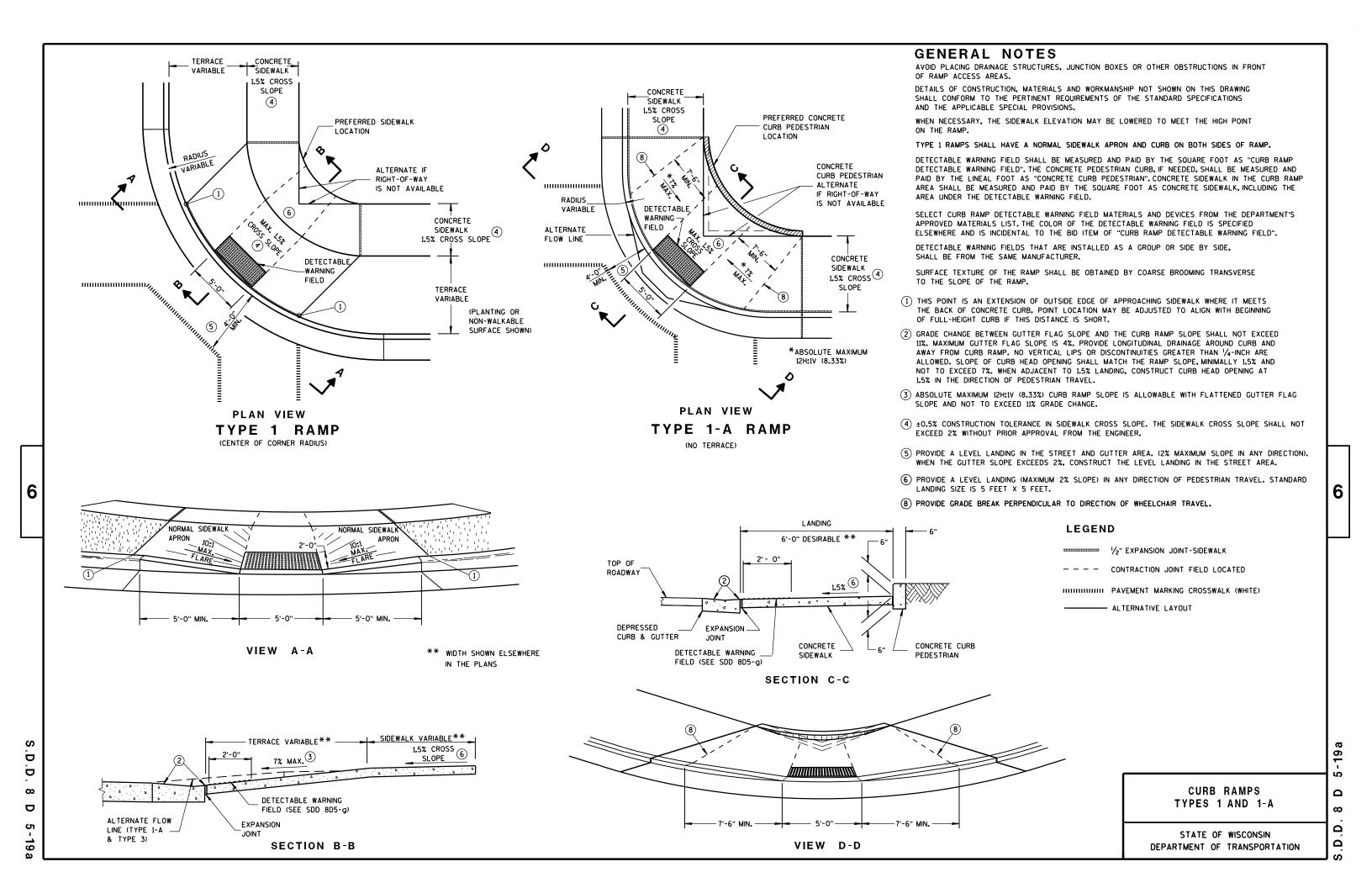
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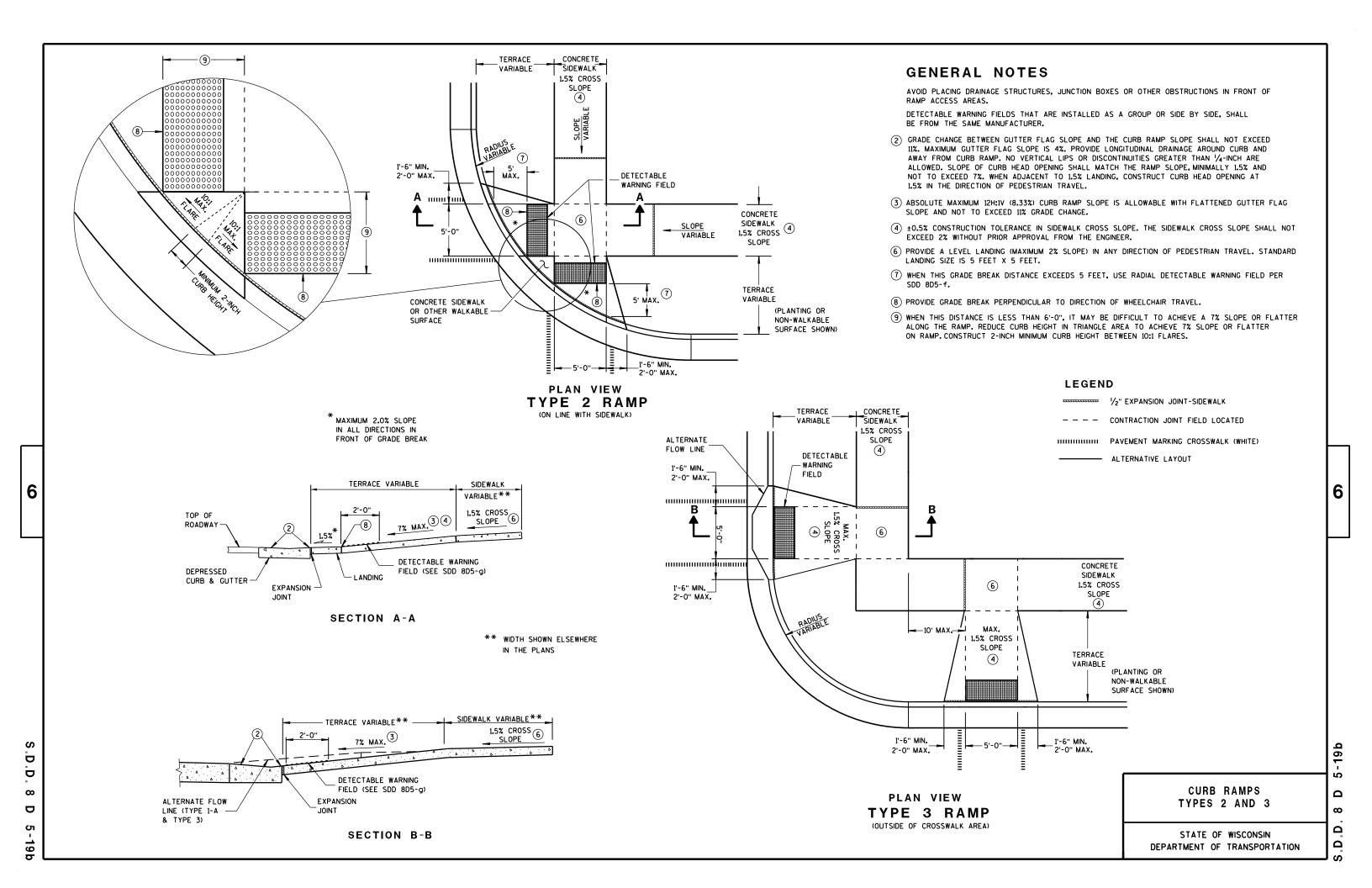
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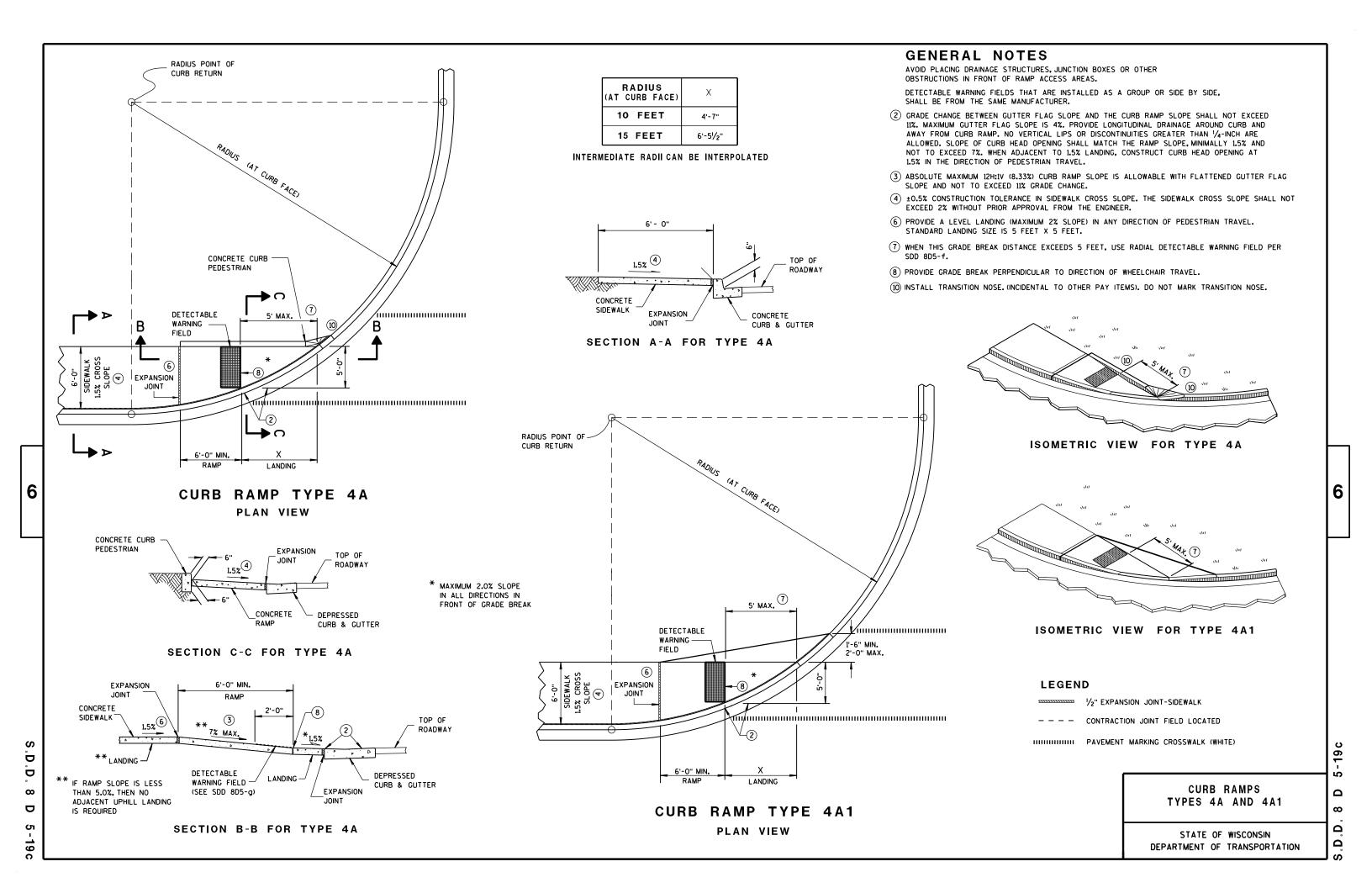
20b

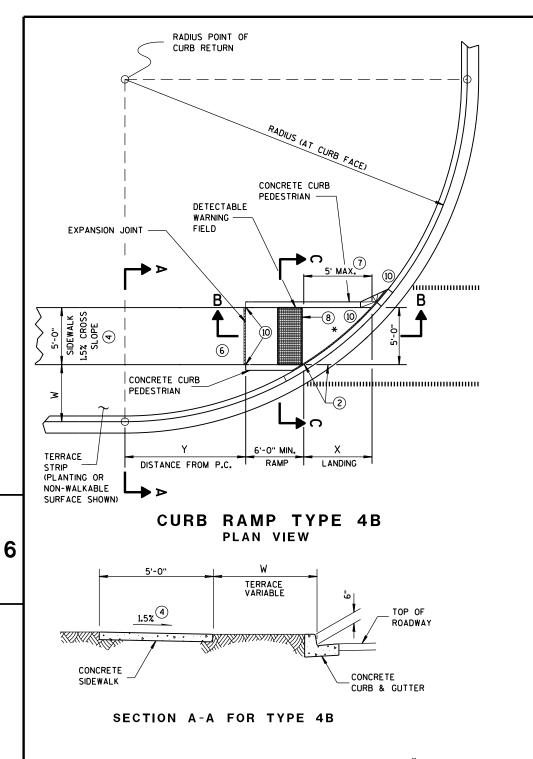
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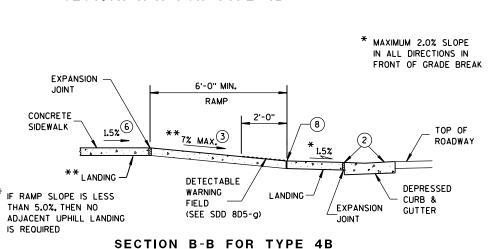












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RADIUS	W =	3' - 0"	W =	4' - Ø"	W =	5' - Ø"	W =	6' - Ø"	W =	7' - Ø"	W = 8' - Ø"		W = 9' - 0"		W = 10' - 0"	
(AT CURB FACE)	Х	Y	Х	Y	Х	Y	X	Y	Х	Y	Х	Y	Х	Y	Х	Y
10 FEET	2'-101/4"	0'-5"	2'-1"	1'-41/2"	1'-5"	2'-1"	0'-10"	2'-71/2"	0'-31/4"	3'-01/4"						
15 FEET	4'-6¾"	2'-1¾"	3'-9"	3'-51/4"	3'-1'/4"	4'-6"	2'-6¾"	5'-41/2"	2'-1"	6'-1"	1'-8"	6'-81/2"	1'-31/4"	7'-21/2"	0'-10¾"	7'-71/4"
20 FEET	5'-9¾"	3'-61/2"	4'-11'/2"	5'-13/4"	4'-3'/4"	6'-51/2"	3'-8¾"	7'-7"	3'-3"	8'-61/2"	2'-10"	9'-41/2"	2'-51/2"	10'-1'/4"	2'-11/4"	10'-9"
30 FEET			6'-9'/4"	7'-11'/4"	6'-0'/4"	9'-8"	5'-5"	11'-1¾''	4'-10¾"	12'-5¾"	4'-51/2"	13'-7¾"	4'-0¾"	14'-81/2"	3'-81/2"	15'-8'/4"
40 FEET									6'-1¾"	15'-81/2"	5'-8"	17'-2"	5'-3"	18'-5¾"	4'-10¾"	19'-8'/4"
50 FEET															5'-10'/4"	23'-2"

GENERAL NOTES

5'-0" RAMP

VARIES

0 TO 6"

<u>1.5%</u>

SECTION C-C FOR TYPE 4B

CONCRETE CURB

PEDESTRIAN

TERRACE STRIP

VARIES O TO W

CONCRETE

CURB & GUTTER

ROADWAY

INTERMEDIATE RADII CAN BE INTERPOLATED
DIMENSION "Y" IS CALCULATED BASED ON 6'-0" RAMP LENGTH
DIMENSION "X" IS CALCULATED BASED ON 5'-0" SIDEWALK WIDTH

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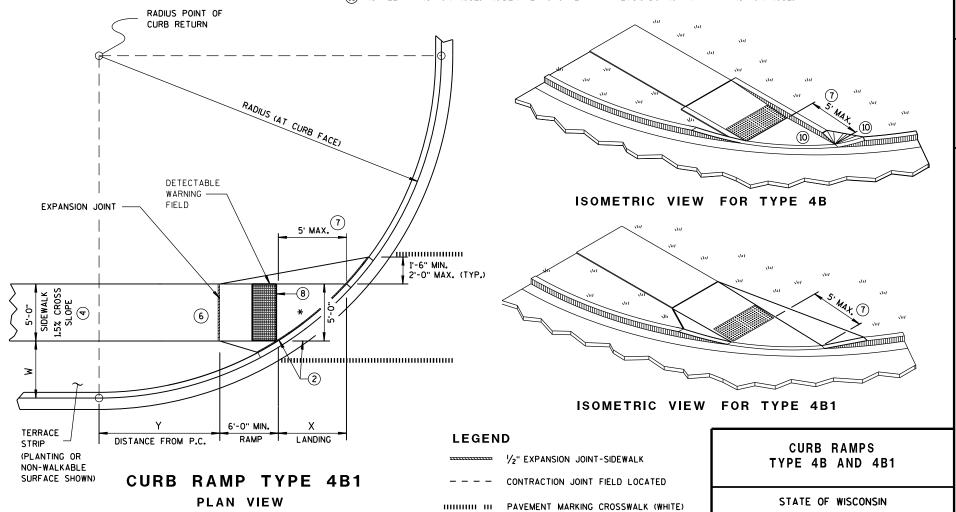
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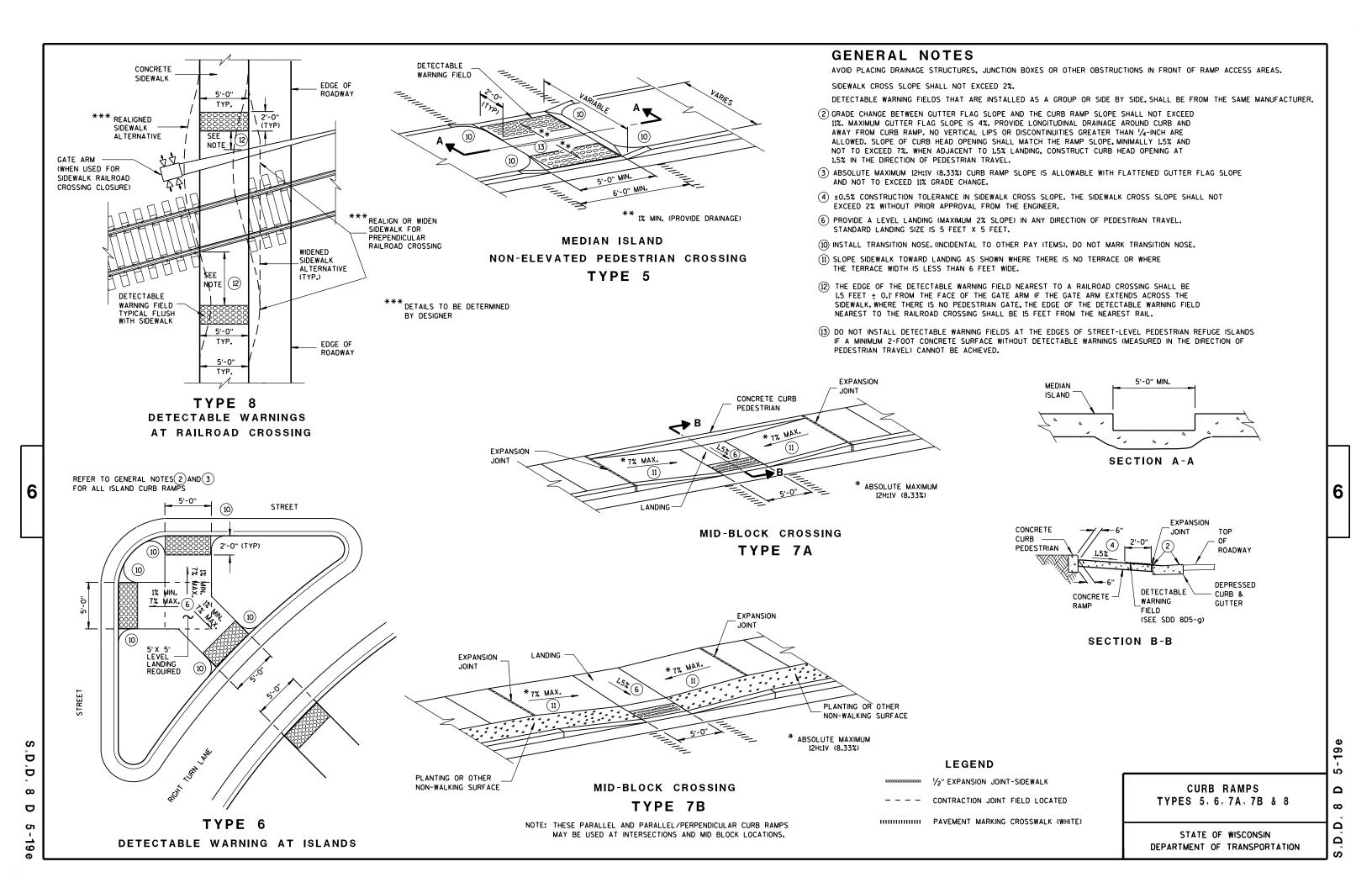
DEPARTMENT OF TRANSPORTATION

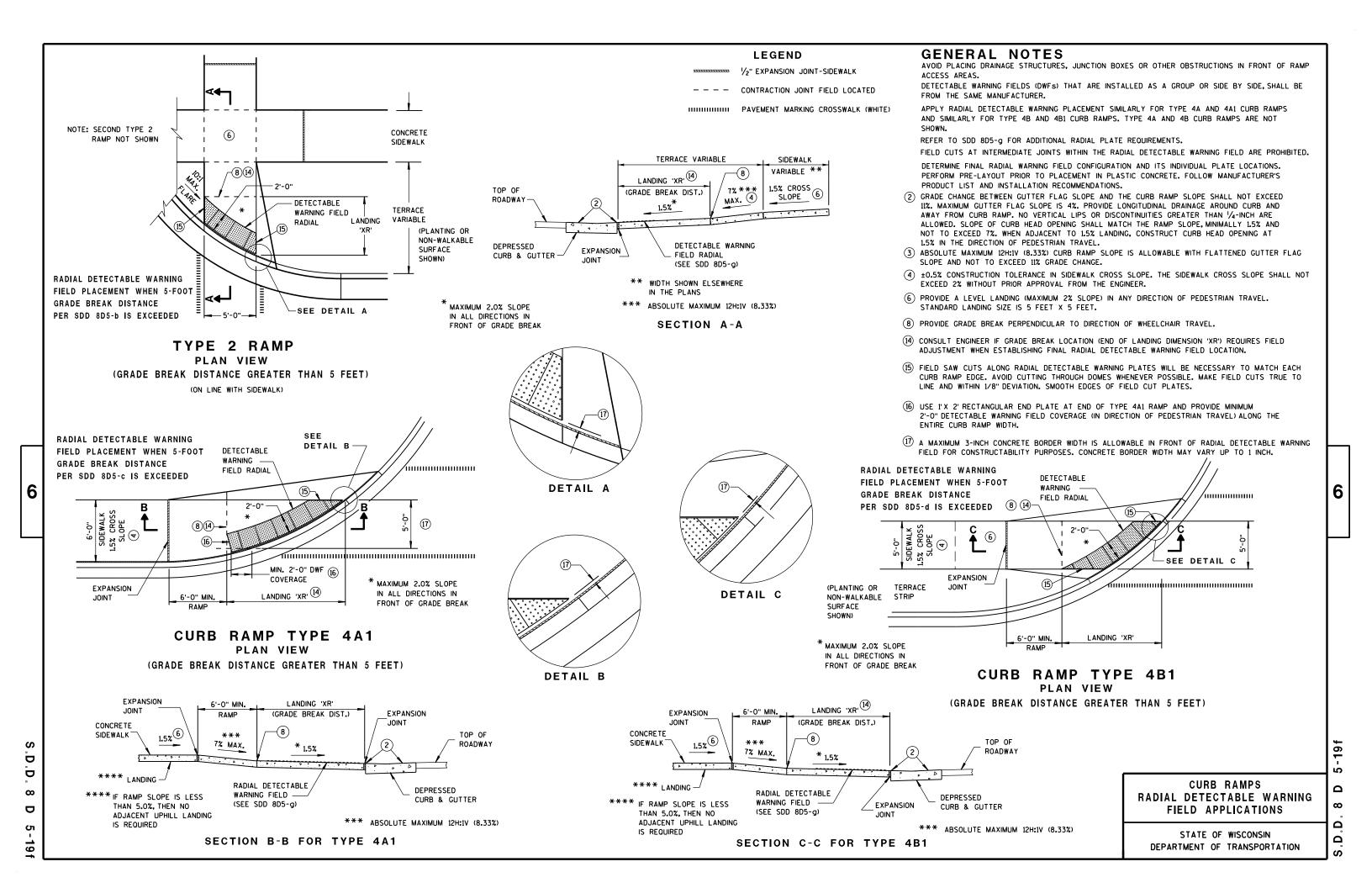
AVOID PLACING DRAINAGE STRUCTURES, JUNCTION BOXES OR OTHER OBSTRUCTIONS IN FRONT OF RAMP ACCESS AREAS.

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 MATCH THE RAMP SLOPE, MINIMALLY 1.5% AND NOT TO EXCEED 7%. WHEN ADJACENT TO 1.5% LANDING, CONSTRUCT CURB HEAD OPENING AT 1.5% IN THE DIRECTION OF PEDESTRIAN TRAVEL.
- 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.
- WHEN THIS GRADE BREAK DISTANCE EXCEEDS 5 FEET, USE RADIAL DETECTABLE WARNING FIELD PER SDD 8D5-f.
- 8 PROVIDE GRADE BREAK PERPENDICULAR TO DIRECTION OF WHEELCHAIR TRAVEL.
- (10) INSTALL TRANSITION NOSE. (INCIDENTAL TO OTHER PAY ITEMS). DO NOT MARK TRANSITION NOSE.







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A B	RAN	(a)
A		(B

PLAN VIEW

00 C	
ELEVATION	VIEW

THE C DIMENSION IS 50% TO 65% OF THE D DIMENSION.

MIN.

1.6"

0.65"

В

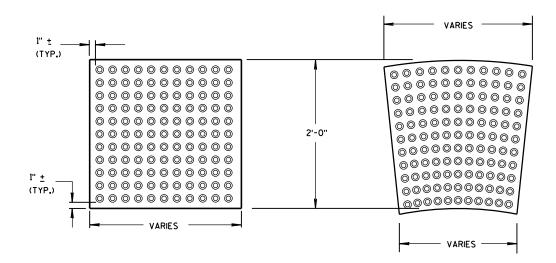
MAX

2.4"

1.5"

1.4"

TRUNCATED DOMES DETECTABLE WARNING PATTERN DETAIL



RECTANGULAR **PLATES**

RADIAL **PLATES**

DETECTABLE WARNING FIELDS (TYPICAL)

PLAN VIEW

GENERAL NOTES

DETECTABLE WARNING FIELDS THAT ARE INSTALLED AS A GROUP OR SIDE BY SIDE, SHALL BE FROM THE SAME MANUFACTURER.

PLACE ALL DETECTABLE WARNING FIELD SYSTEMS IN ACCORDANCE TO THE MANUFACTURER'S RECOMMENDATION.

FIELD CUTS AT INTERMEDIATE JOINTS WITHIN THE RADIAL DETECTABLE WARNING FIELD ARE PROHIBITED.

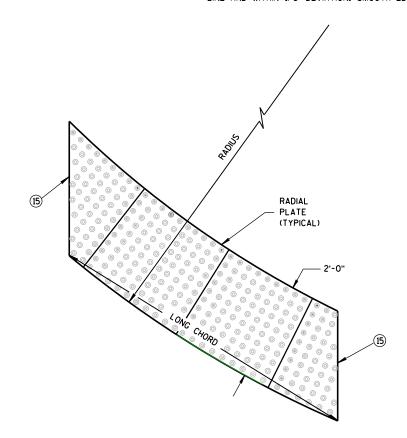
DETERMINE FINAL RADIAL WARNING FIELD CONFIGURATION AND ITS INDIVIDUAL PLATE LOCATIONS. PERFORM PRE-LAYOUT PRIOR TO PLACEMENT IN PLASTIC CONCRETE. FOLLOW MANUFACTURER'S PRODUCT LIST AND INSTALLATION RECOMMENDATIONS.

FOR RADIAL DETECTABLE WARNING FIELD APPLICATIONS WHERE STANDARD RADIAL PLATES ARE NOT AVAILABLE AT AN INTERSECTION CURB RADIUS, A COMBINATION OF SQUARE OR RECTANGULAR PLATES AND RADIAL PLATES MAY BE USED TO FORM RADIAL CONFIGURATION. RADIAL WEDGES IN COMBINATION WITH SQUARE PANELS ARE ALSO ACCEPTABLE. FOLLOW MANUFACTURER'S RECOMMENDATIONS.

REFER TO CONTRACT AND STANDARD SPECIFICATIONS FOR FIELD CUTTING REQUIREMENTS.

DO NOT EMBED IN CONCRETE ANY FIELD-CUT PLATES WITH CUT EDGES SHORTER THAN 6 INCHES. CONSULT WITH MANUFACTURER FOR RE-DRILLING AND ANCHORING REQUIREMENTS OF FIELD-CUT PLATES.

(15) FIELD SAW CUTS ALONG RADIAL DETECTABLE WARNING PLATES WILL BE NECESSARY TO MATCH EACH CURB RAMP EDGE. AVOID CUTTING THROUGH DOMES WHENEVER POSSIBLE. MAKE FIELD CUTS TRUE TO LINE AND WITHIN 1/8" DEVIATION. SMOOTH EDGES OF FIELD CUT PLATES.



RADIAL DETECTABLE **WARNING FIELD ATTRIBUTES**

CURB RAMPS RECTANGULAR AND RADIAL DETECTABLE WARNING PLATES

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STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

APPROVED	

/S/ Rodney Taylor ROADWAY STANDARDS DEVELOPMENT UNIT SUPERVISOR

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

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

PLAN VIEW

HALF SECTION

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

PROFILE VIEW

RURAL ENTRANCE WITH ASPHALTIC SURFACE

RESURFACING PROJECTS

PROFILE VIEW

PLAN VIEW HALF SECTION

RURAL ENTRANCE WITH AGGREGATE SURFACE

6" BASE AGGREGATE DENSE RESURFACING PROJECTS

DRIVEWAYS WITHOUT
CURB & GUTTER
RESURFACING PROJECTS RURAL

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

FHWA

December. 2016 /S/ Rodney Taylor

DATE ROADWAY STANDARDS DEVELOPMENT

UNIT SUPERVISOR

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

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



WHEN ALTERING THE DIRECTION OF FLOW



PLAN VIEW



FRONT ELEVATION

WHEN EXISTING GROUND SLOPES AWAY FROM FILL SLOPE

EROSION BALES FOR SHEET FLOW

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

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

APPROVED

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

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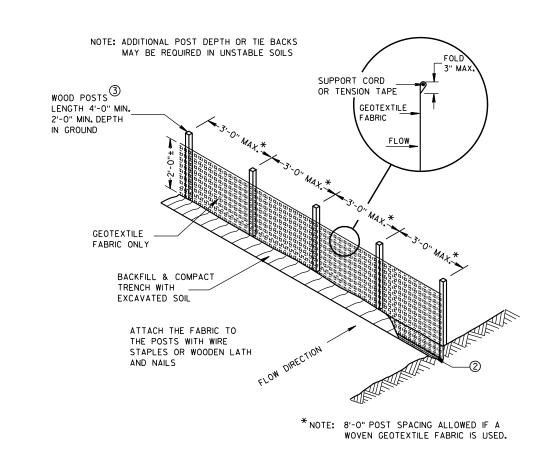
TYPICAL APPLICATION OF SILT FENCE

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SILT FENCE



PLAN VIEW SILT FENCE AT MEDIAN SURFACE DRAINS



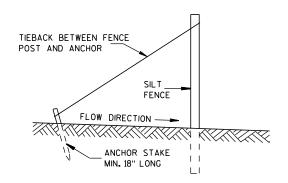
GENERAL NOTES

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

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

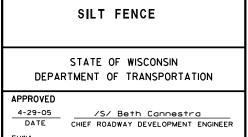


TRENCH DETAIL



SILT FENCE TIE BACK

(WHEN REQUIRED BY THE ENGINEER)



S.D.D. 8 E

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INLET PROTECTION, TYPE A

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

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

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

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



INLET PROTECTION, TYPE C (WITH CURB BOX)

INSTALLATION NOTES

TYPE B & C

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

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

TYPE D

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

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

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

INLET PROTECTION TYPE A, B, C, AND D

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

APPROVED

10/16/02

/S/ Beth Cannestra CHIEF ROADWAY DEVELOPMENT ENGINEER 6

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METAL APRON ENDWALLS											
PIPE	MIN. 1	THICK.		APPROX.							
DIA.	(Incl		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	2½to 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.

	REINFORCED CONCRETE APRON ENDWALLS											
PIPE			DIM	(Inches)	nches)							
DIA.	T	A	В	С	D	Ε	G	APPROX. SLOPE				
12	2	4	24	48 1/8	721/8	24	2	3 to 1				
15	21/4	6	27	46	73	30	21/4	3 to 1				
18	21/2	9	27	46	73	36	21/2	3 to 1				
21	23/4	9	36	371/2	731/2	42	23/4	3 to 1				
24	3	91/2	431/2	30	731/2	48	3	3 to 1				
27	31/4	101/2	491/2	24	731/2	54	31/4	3 to 1				
30	$3\frac{1}{2}$	12	54	193/4	731/2	60	31/2	3 to 1				
36	4	15	63	34¾	97¾	72	4	3 to 1				
42	$4\frac{1}{2}$	21	63	35	98	78	41/2	3 to 1				
48	5	24	72	26	98	84	5	3 to 1				
54	51/2		65	**************************************	8 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.

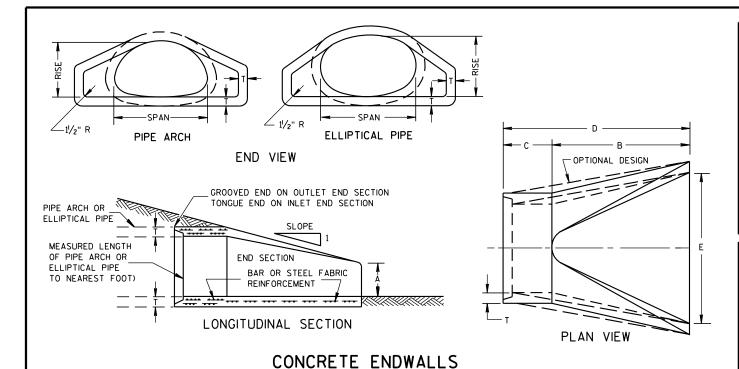
(1) FOR PIPE SIZES UP TO 60" DIAMETER, A 180° ROLLED EDGE MAY BE USED INSTEAD OF STEEL ROD REINFORCEMENT. SEE SECTION A-A.



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

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2- 2/3" X 1/2" CORRUGATIONS													
EQUIV.	JIV. (Inches) MIN. THICK.						APPROX.						
DIA.			(Inches)		A	В	Н	L	Ļj	L ₂	W	SLOPE	BODY
(Inches)	SPAN	RISE	STEEL	ALUM.	(±]")	(MAX.)	(±]")	(±1 ½")	①	1	(±2")	3E0. E	
15	17	13	.064	.060	7	9	6	19	14	16	30	2½+o 1	1Pc.
18	21	15	.064	.060	7	10	6	23	14	193/8	36	21/2+o 1	1Pc.
21	24	18	.064	.060	8	12	6	28	18	213/4	42	21/2+o 1	1Pc.
24	28	20	.064	.060	9	14	6	32	18	271/2	48	21/2+o 1	1 Pc.
30	35	24	.079	.075	10	16	6	39	18	375/8	60	21/2+o 1	1 Pc.
36	42	29	.079	.075	12	18	8	46	24	45%	75	21/2+o 1	1Pc.
42	49	33	.109	.105	13	21	9	53	24	54¾	85	21/2 to 1	2 Pc.
48	57	38	.109	.105	18	26	12	63	24	68	90	21/2+0 1	3 Pc.
54	64	43	.109	.105	18	30	12	70	24	723/4	102	21/4+0 1	3 Pc.
60	71	47	.109*	.105*	18	33	12	77	30	821/4	114	21/4+0 1	3 Pc.
66	77	52	. 109*	.105*	18	36	12	77	_	_	126	2 to 1	3 Pc.
72	83	57	.109*	.105*	18	39	12	77	_	_	138	2 to 1	3 Pc.

				3	3" X 1	" COR	RUGA	TIONS					
EQUIV.	(Incl	hes)	MIN. 1			DIMENSIONS (Inches) A B H L L1 L2 W							BODY
(Inches)	SPAN	RISE	STEEL	ALUM.	A (±]")	(MAX.)		(±1 ½")	L ₁	L 2 ①	(±2")	SLOPE	DOD 1
48	53	41	.109	.105	18	26	12	63	24	723/4	90	2½+o 1	2 Pc.
54	60	46	.109	.105	18	30	12	70	30	821/4	102	2 to 1	2 Pc.
60	66	51	.109*	.105 *	18	33	12	77	_	_	114	11/2+0 1	3 Pc.
66	73	55	.109 ×	. 105*	18	36	12	77	_	_	126	11/2+0 1	3 Pc.
72	81	59	.109*	.105 *	18	39	12	77	_	_	138	2 to 1	3 Pc.
78	87	63	.109×	.105*	22	38	12	77	_	_	148	11/2+0 1	3 Pc.
84	95	67	.109*	. 105*	22	34	12	77	_	_	162	11/2+0 1	3 Pc.
90	103	71	.109*	. 105*	22	38	12	77	_	_	174	1½+o 1	3 Pc.
96	112	75	.109*	.105*	24	40	12	77	_	_	174	11/2 to 1	3 Pc.

NOTE: ALL SPLICES TO BE LAP RIVETED OR BOLTED.

THREADED 7/6" DIA. ROD OVER TOP OF APRON, SIDE

LUGS TO BE RIVETED TO

MEASURED LENGTH OF PIPE ARCH

MEASURED LENGTH

OF PIPE ARCH

SECTION

CONNECTOR SECTION

TO BE PAID FOR AS

PART OF END SECTION

CONNECTOR

* EXCEPT CENTER PANEL SEE GENERAL NOTES

ROD HOLDER

COUPLING BAND

RIVETED OR

BOLTED

REQUIRED

		REINF	ORCE	CON	CRET	E PIP	E ARC	СН				
EQUIV.	DIMENSIONS (Inches)											
DIA. (Inches)	** SPAN	** RISE	T	A	В	С	D	E	SLOPE			
24	29	18	3	81/2	39	33	72	48	3 to 1			
30	36	22	31/2	91/2	50	46	96	60	3 to 1			
36	44	27	4	111/8	60	36	96	72	3 to 1			
42	51	31	41/2	1513/16	60	36	96	78	3 to 1			
48	58	36	5	21	60	36	96	84	3 to 1			
54	65	40	51/2	251/2	60	36	96	90	3 to 1			
60	73	45	6	31	60	36	96	96	3 to 1			
72	88	54	7	31	60	39	99	120	2 to 1			
84	102	62	8	281/2	83	19	102	144	2 to 1			

	REI	NFORC	ED C	ONCR	ETE E	LLIPT	ICAL	PIPE	
EQUIV.	DIMENSIONS (Inches)								
DIA. (Inches)	** SPAN	** RISE	T	A	В	С	D	Ε	APPROX. SLOPE
24	30	19	31/4	81/2	39	33	72	48	3 to 1
30	38	24	3¾	91/2	54	18	72	60	3 to 1
36	45	29	41/2	111/8	60	24	84	72	21/2+o 1
42	53	34	5	15¾	60	36	96	78	21/2+o 1
48	60	38	51/2	21	60	36	96	84	2½+o 1
54	68	43	6	251/2	60	36	96	90	2½+o 1
60	76	48	61/2	30	60	36	96	96	21/2 to 1

**NOMINAL SIZE

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.

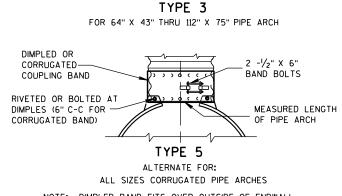
CONCRETE APRON ENDWALLS MAY NOT BE USED WITH GALVANIZED STEEL OR ALUMINUM CULVERT PIPE OR VISE VERSA, GALVANIZED STEEL OR ALUMINUM APRON ENDWALLS SHALL NORMALLY BE INSTALLED ON CULVERT PIPE OF THE

ALL THREE PIECE STEEL APRON ENDWALLS FOR 66" X 51" PIPE ARCH AND LARGER SHALL HAVE 0.109" SIDES AND 0.138" CENTER PANELS. ALL THREE PIECE ALUMINUM APRON ENDWALLS FOR 66" X 51" PIPE ARCH 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 ARCH

LAP SEAMS SHALL BE TIGHTLY JOINED BY GALVANIZED RIVETS OR BOLTS FOR STEEL UNITS AND ALUMINUM RIVETS AND BOLTS FOR ALUMINUM UNITS. FOR THE 77" X 52" THROUGH 112" X 75" 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 ARCH SIZES UP TO 73" X 55" A 180° ROLLED EDGE MAY BE USED INSTEAD OF STEEL ROD REINFORCEMENT. SEE SECTION A-A.



TYPE 2

FOR 17" X 13" THRU 112" X 75" PIPE ARCH

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

phonelly.	TUBING SLIPPED (AND RIVETS PRIO CATION OF THE E
L ₂ ① 3%" R.	3%" DIA. X 1/2" OR ALUM. BUT SPACED AT 6 LENGTH OF RI 3%" R. OUTSIDE SIDEWALL
EDGE OF SIDEWALL SHEET ROLLED SNUGLY AGAINST STEEL ROD	MINIMUM %6" STEEL ROD O GALV. REINFOF

APRON ENDWALLS FOR PIPE ARCH AND ELLIPTICAL PIPE

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

APPROVED				
11/30/94	/	S/ Rory	L. Rhinesmi	th
DATE	CHIEF	ROADWAY	DEVELOPMENT	ENGINEER
FHWA				

REINFORCED EDGE (SEE SECTION A-A)
PLAN VIEW END CORNER PLATES MAY BE FASTENED TO APRON PROPER BY BOLTS, RIVETS, OR RESISTANCE SPOT WELDS WHICH WILL HOLD THE SURFACES TIGHTLY TOGETHER PLATE W + 10" (RISE 23" THRU 29") W + 20" (RISE 33" THRU 75") END VIEW END CORNER PLATES MAY BE FASTENED TO APRON PROPER BY BOLTS, RIVETS, OR RESISTANCE SPOT WELDS WHICH WILL HOLD THE SURFACES TIGHTLY TOGETHER TOE PLATE (SAME THICKNESS AND METAL AS APRON) SHALL BE FURNISHED WHEN CALLED FOR ON THE PLANS
SHOULDER SLOPE SLOPE FLOW LINE

SIDE ELEVATION

METAL ENDWALLS

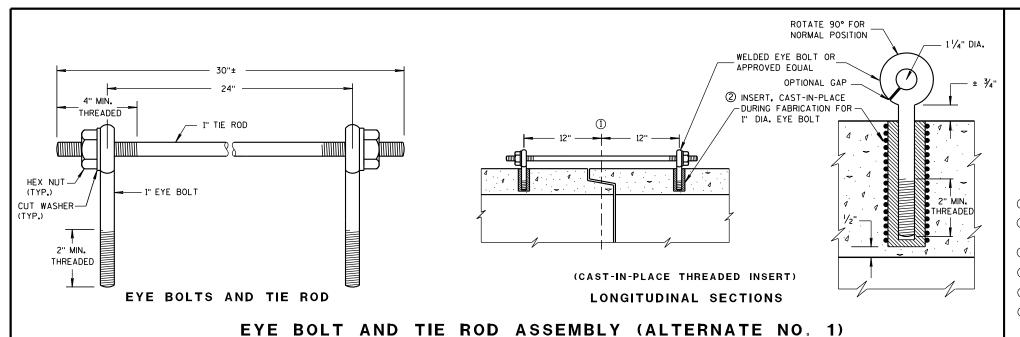
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0.109" THICK GALV. STEEL OR 0.109" THICK ALUMINUM 3/8" DIA. RIVETS SPACED APRON SIDEWALL AT 6" C-C SHEET 1" O.D. X O.079" THICK GALV. STEEL OR 0.075" THICK ALUM. OVER SHEET OR TO FABRI-END SECTION "- GALV. STEEL TTONHEAD RIVETS 6" C-C. OVER-RIVET = 0.78" OF APRON L SHEET DIA. GALV. OR 10M ORCING BAR

└─ ¹/8" (APPROX.)

CONNECTION DETAILS



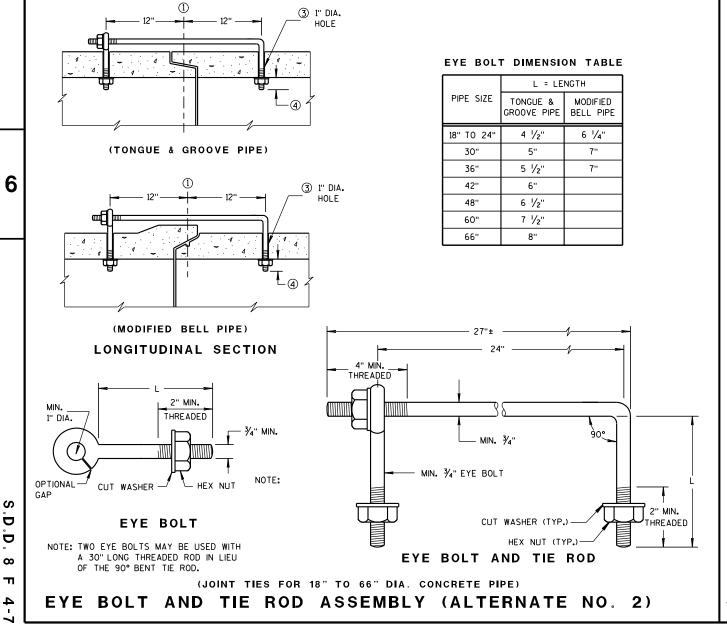
DETAILS OF CONSTRUCTION, MATERIALS, AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND APPLICABLE SPECIAL PROVISIONS.

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

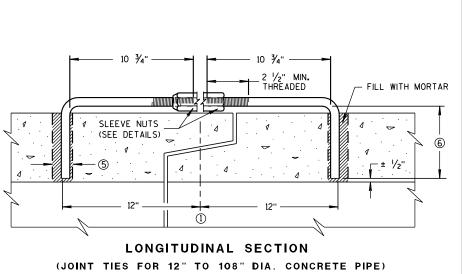
DETAILED DRAWINGS FOR PROPOSED ALTERNATE DESIGNS FOR JOINT TIES SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL.

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

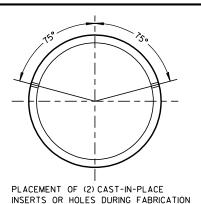
- (1) & OF TONGUE AND GROOVE OR BELL AND SPIGOT JOINTS.
- THE INSIDE OF THE THREADED INSERTS SHALL BE CLEAN TO ALLOW THE INSERTION OF THREADED EYE
- ${\mathfrak S}$ HOLES SHALL BE CAST-IN-PLACE OR DRILLED 12 INCHES FROM ${\mathfrak L}$ OF TONGUE AND GROOVE.
- 4 BOLT PROJECTION INSIDE OF PIPE SHALL NOT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



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

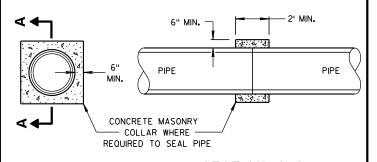


ADJUSTABLE TIE ROD (ALTERNATE NO. 3)



FOR PIPE SECTIONS REQUIRING TIE RODS

TRANSVERSE SECTION



SECTION A-A

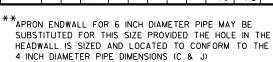
CONCRETE COLLAR DETAIL

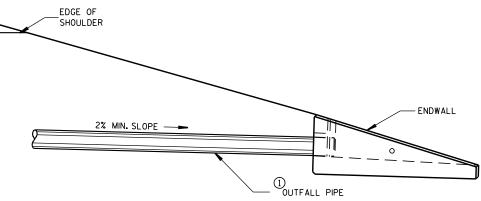
JOINT TIES FOR CONCRETE PIPE AND CONCRETE COLLAR DETAIL

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

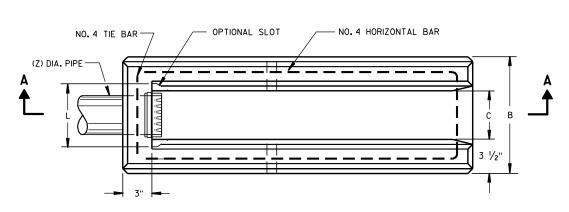
6/5/2012 /S/ Jerry H. Zogg DATE ROADWAY STANDARDS DEVELOPMENT ENGINEER

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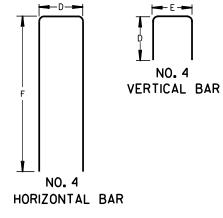




INSTALLATION DETAIL



PLAN VIEW



BAR STEEL REINFORCEMENT DETAILS

NO. 4 VERTICAL BAR

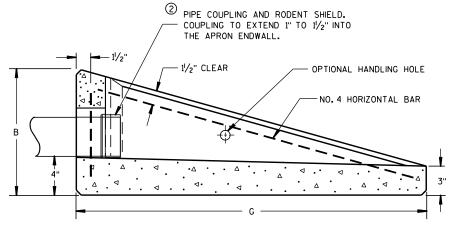
(C) DIA HOLF

FOR DRAIN PIPE

_€ HOLE FOR DRAIN PIPE

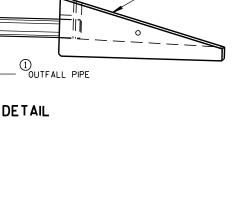
END VIEW

HORIZONTAL BAR



SECTION A-A

CONCRETE APRON ENDWALL FOR UNDERDRAIN



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.

ALTERNATIVE DESIGNS WHICH PROVIDE EQUIVALENT CAPACITY AND STRENGTH MAY BE USED WHEN APPROVED BY THE ENGINEER. ENDWALL MAY BE EITHER PRECAST OR CAST-IN-PLACE CONCRETE.

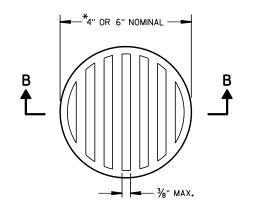
THE UNDERDRAIN PIPE SHALL BE FULLY INSERTED AND SEALED INTO THE ENDWALL WITH CEMENT MORTAR PRIOR TO BACKFILLING AROUND THE STRUCTURE.

THE UPPERMOST POINT OF THE ENDWALL SHALL BE PLACED FLUSH WITH THE ROADWAY SLOPE. ADJACENT EMBANKMENT SLOPES SHALL BE SHAPED TO FIT THE SIDES AND TOE OF THE ENDWALL. EXACT PLACEMENT OF THE OUTFALL PIPE AND ENDWALL SHALL BE DETERMINED BY THE ENGINEER TO MATCH THE ELEVATIONS AND FLOW DIRECTION OF THE ROADSIDE DITCH.

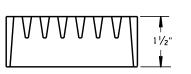
(1) THE OUTFALL PIPE UNDERDRAIN AND FITTINGS SHALL CONFORM TO THE REQUIREMENTS OF THE SPECIFICATION FOR POLY (VINYL CHORIDE) (PVC) PLASTIC DRAIN, WASTE AND VENT PIPE AND FITTINGS, ASTM DESIGNATION: D 2665, SCHEDULE 40 PVC OR THE STANDARD SPECIFICATION FOR TYPE PSM POLY (VINYL CHORIDE) (PVC) SEWER PIPE AND FITTINGS, ASTM DESIGNATION: D 3034, TYPE PSM SDR 23.5 PVC SEWER PIPE, ALL JOINTS SHALL BE SOLVENT WELDED.

THE OUTFALL PIPE INCLUDING ALL FITTINGS AND THE RODENT SHIELD SHALL BE MEASURED AND PAID FOR AS PIPE UNDERDRAIN UNPERFORATED.

(2) THE RODENT SHIELD SHALL BE A PVC GRATE SIMILAR TO THIS DETAIL. THE GRATE IS COMMERCIALLY AVAILABLE AS A FLOOR STRAINER, A PIPE COUPLING IS REQUIRED FOR THE ATTACHMENT OF THIS SHIELD TO THE OUTFALL PIPE. THE SHIELD SHALL BE FASTENED TO THE PIPE COUPLING WITH TWO OR MORE NO. 10 X 1-INCH STAINLESS STEEL SHEET METAL



NOTE: ORIENT SHIELD SO SLOTS ARE VERTICAL.



SECTION B-B

² RODENT SHIELD

*NOTE: DIMENSIONS ARE APPROXIMATE. THE GRATE IS SIZED TO FIT INTO A PIPE COUPLING.

REINFORCED CONCRETE APRON ENDWALL FOR PIPE UNDERDRAIN

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

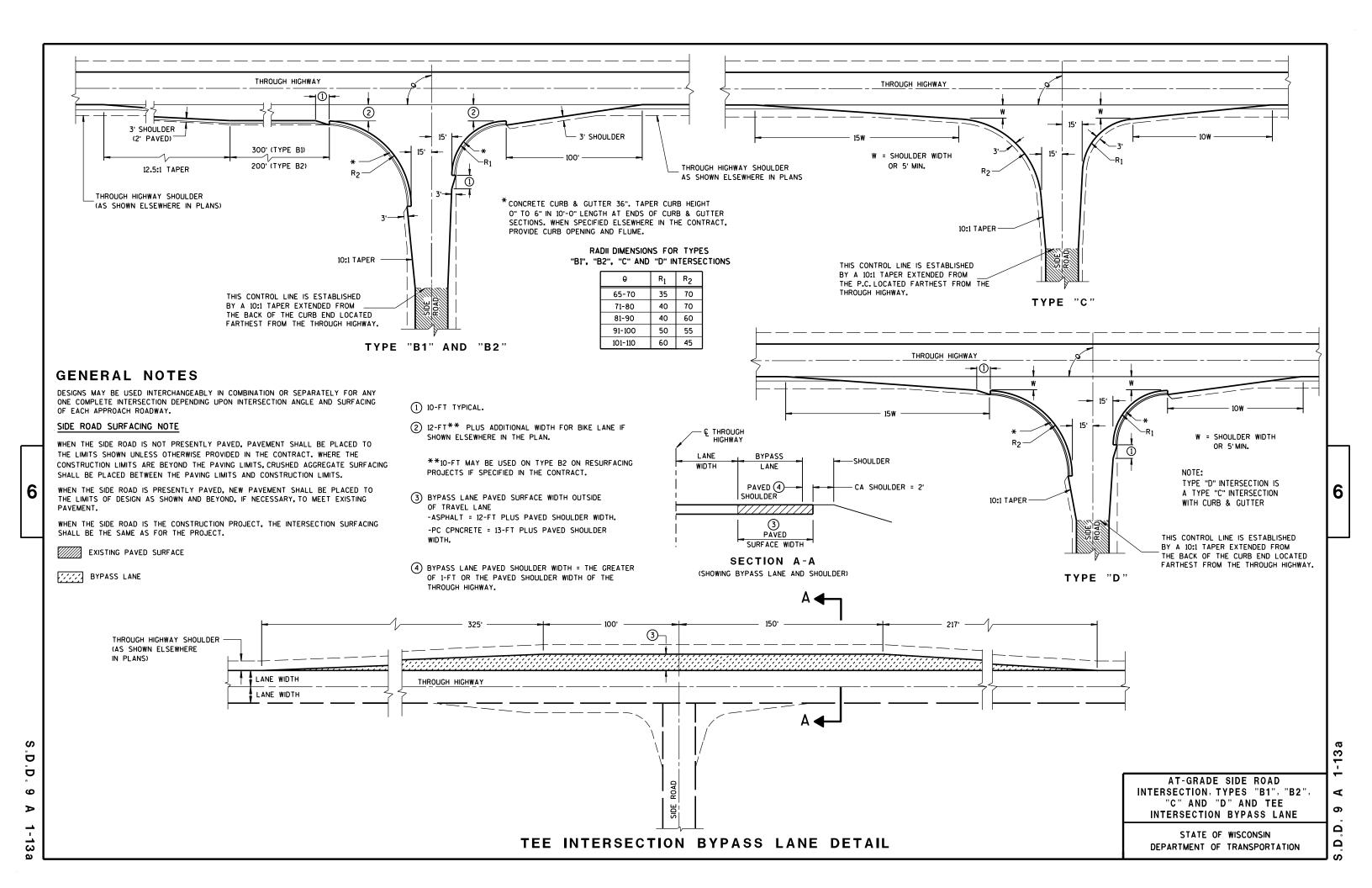
APPROVED 3/10/98 /S/ Rory L. Rhinesmith

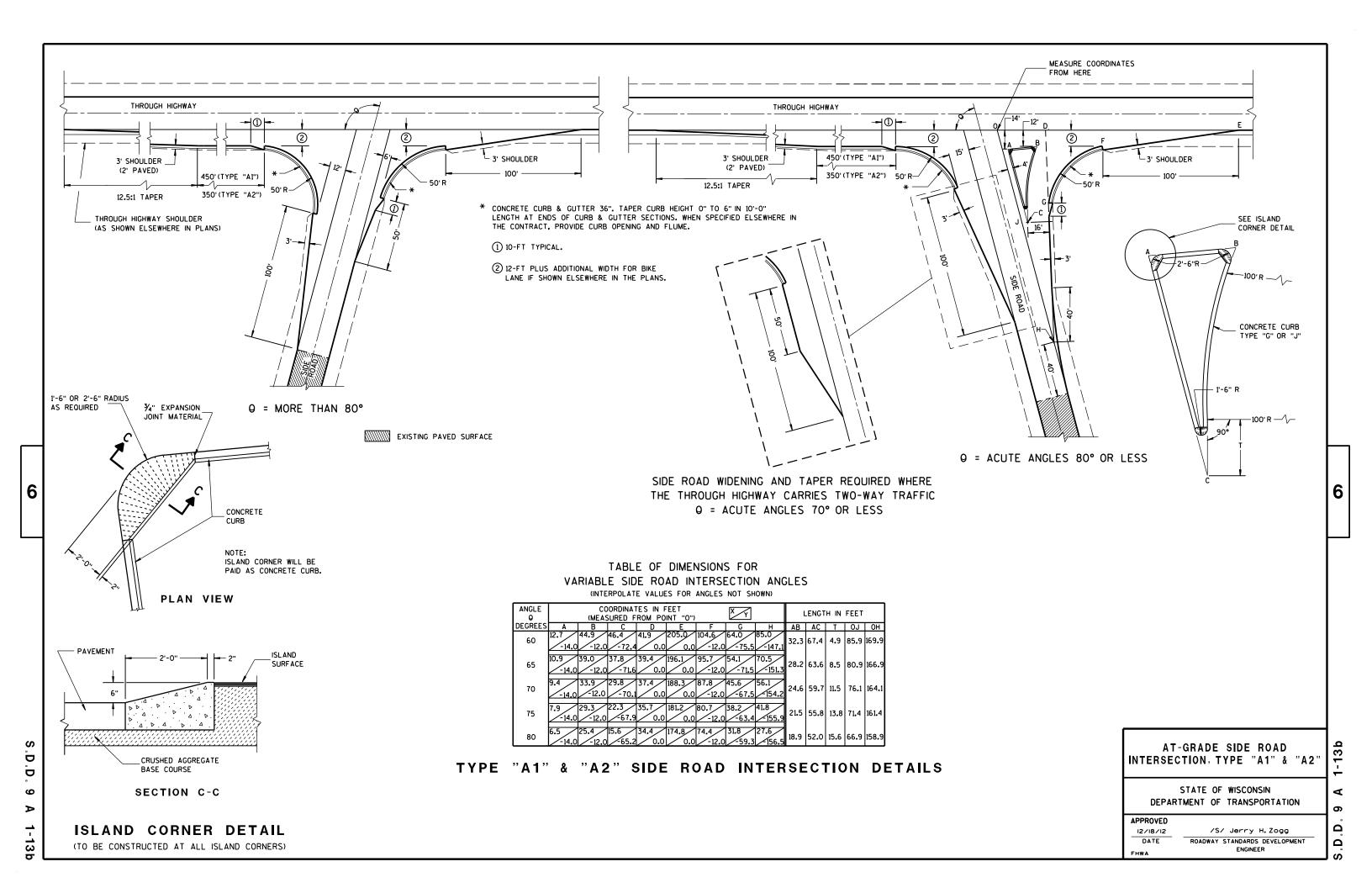
CHIEF ROADWAY DEVELOPMENT ENGINEER

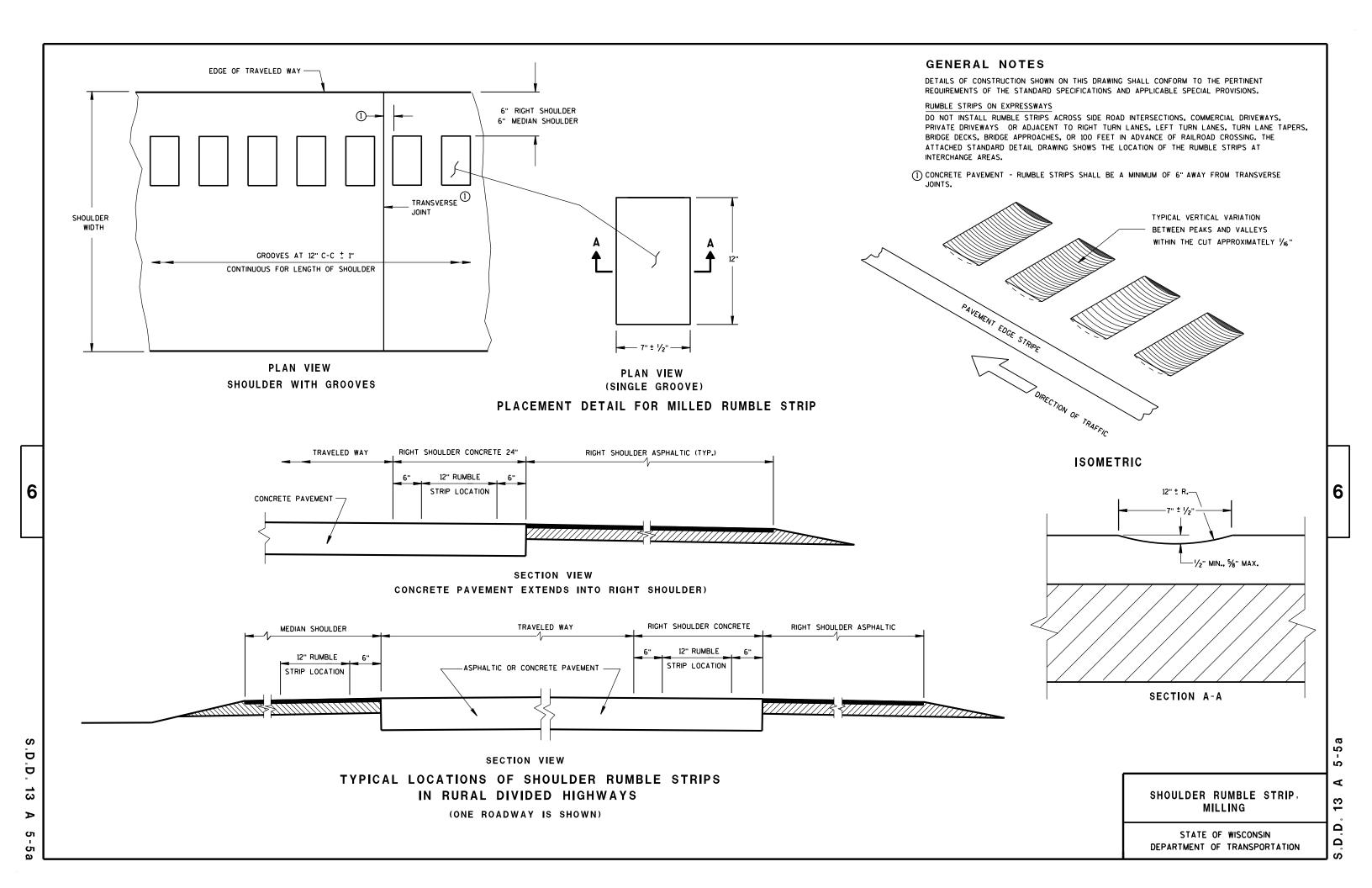
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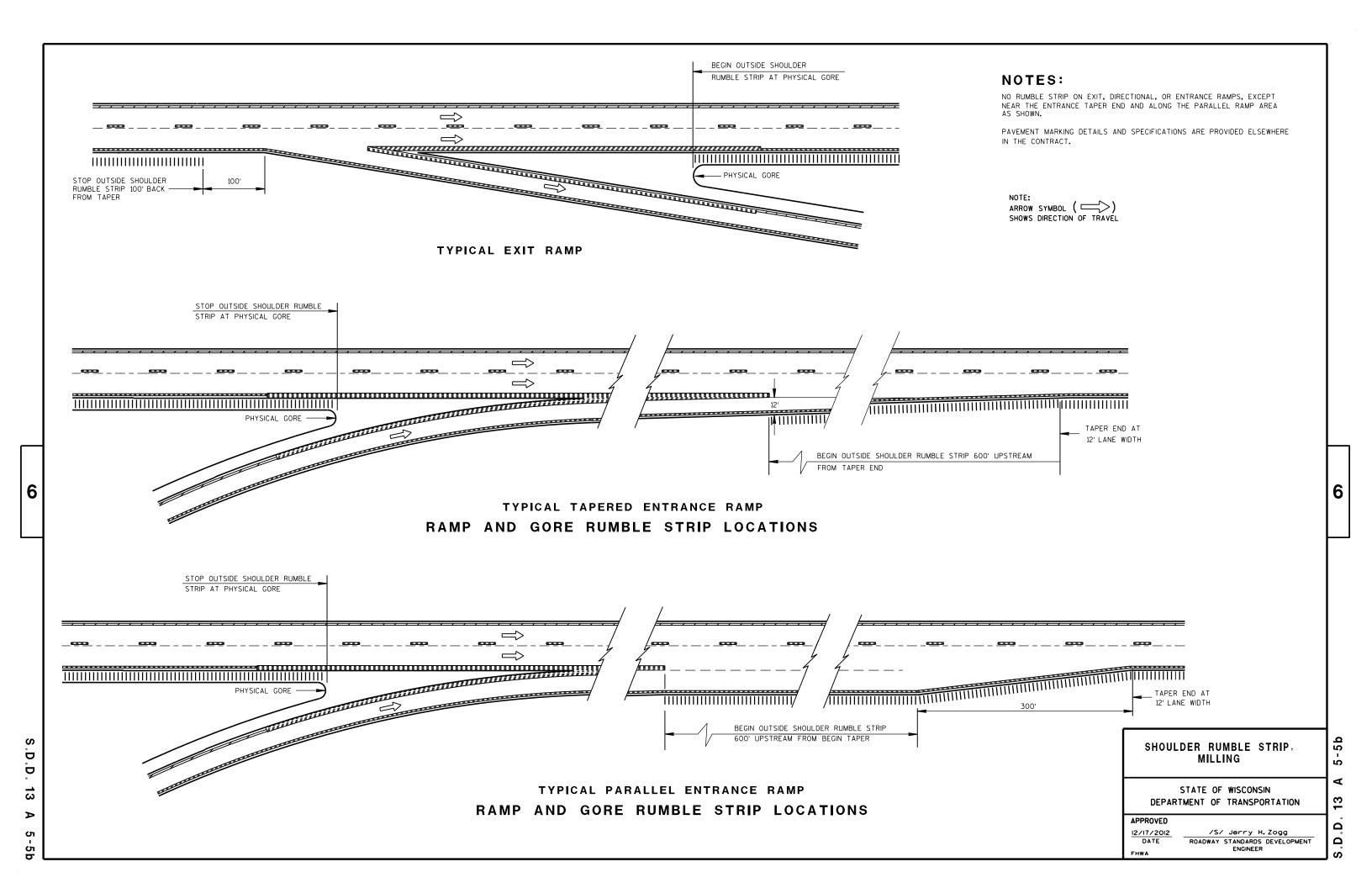
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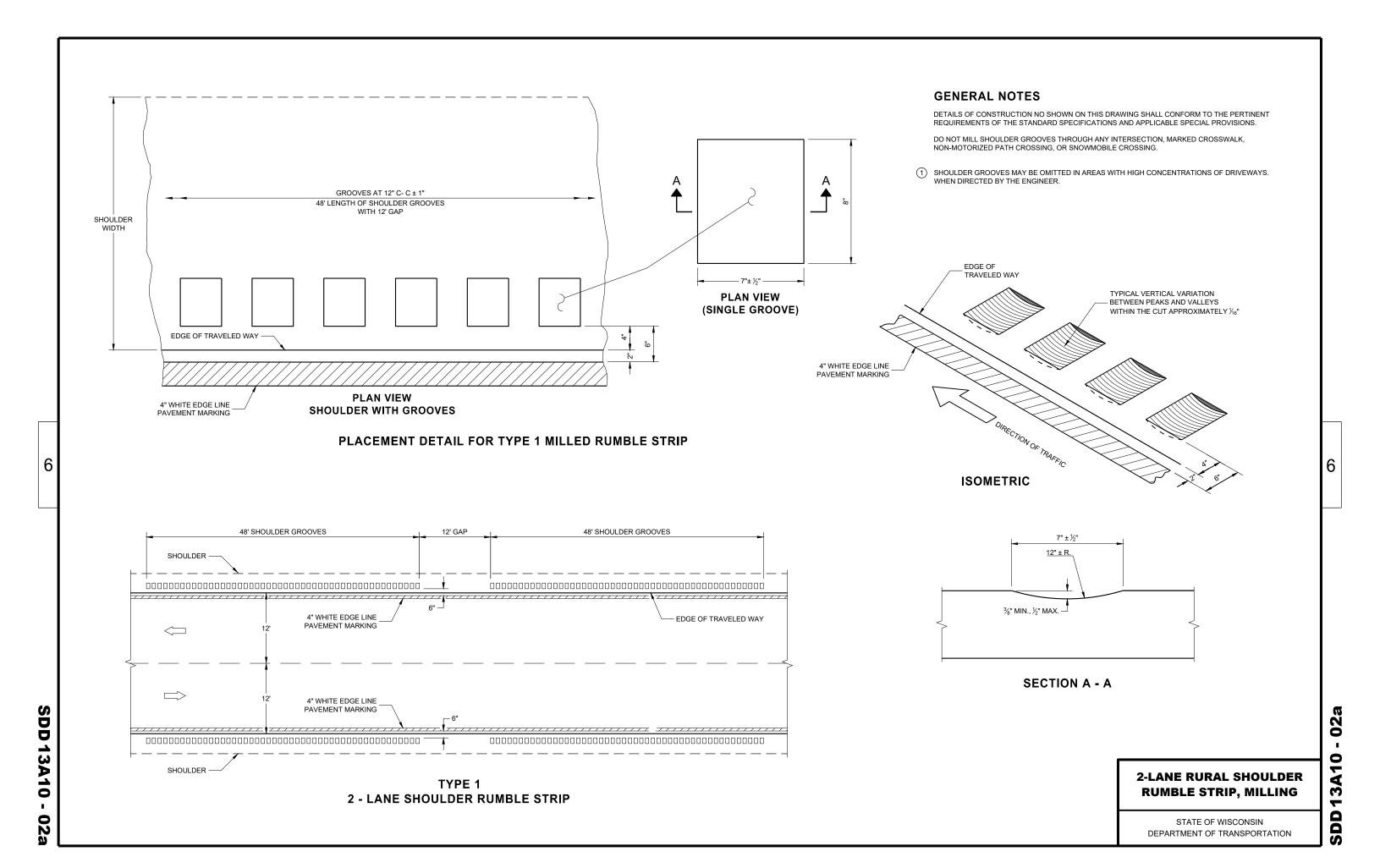
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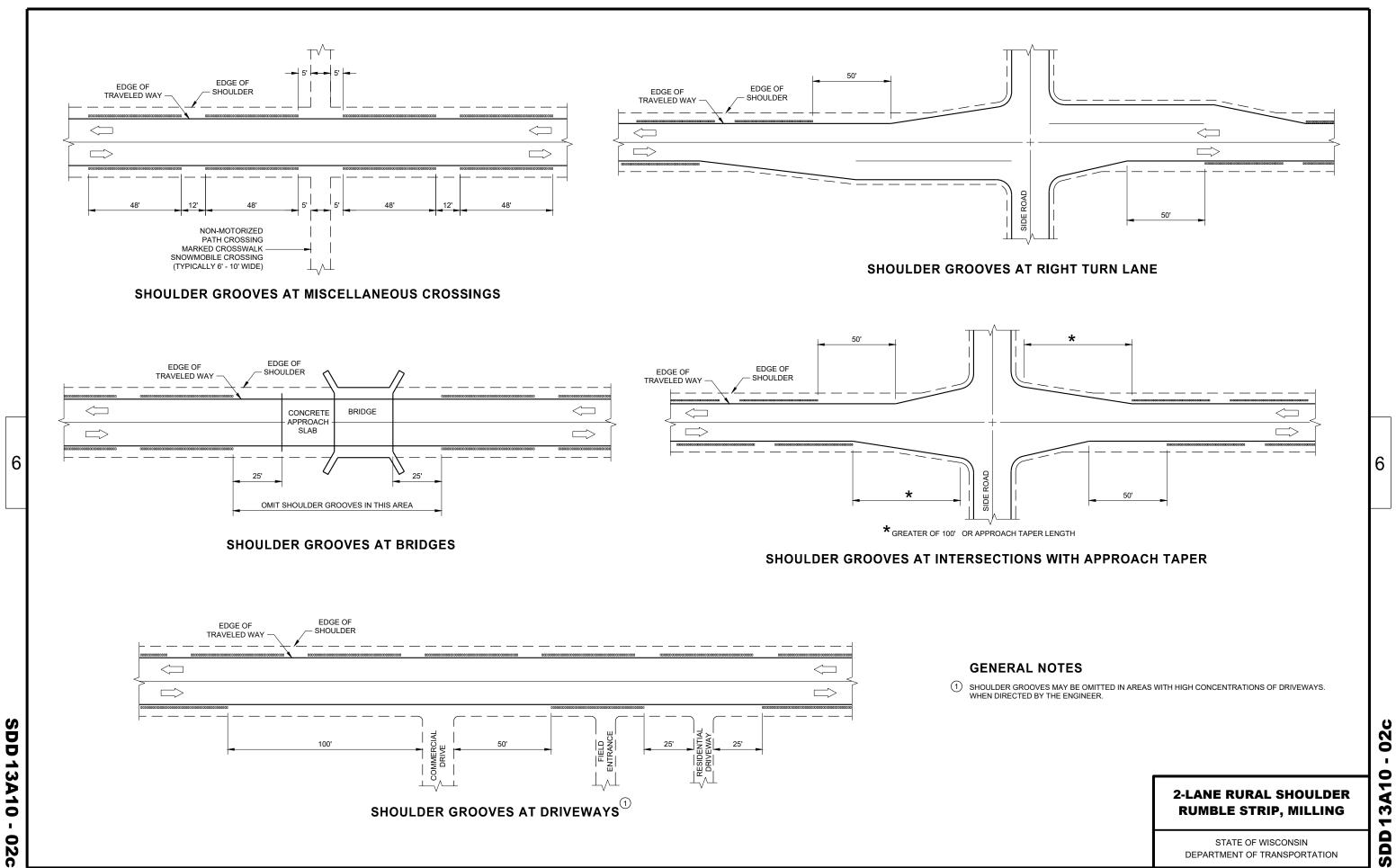


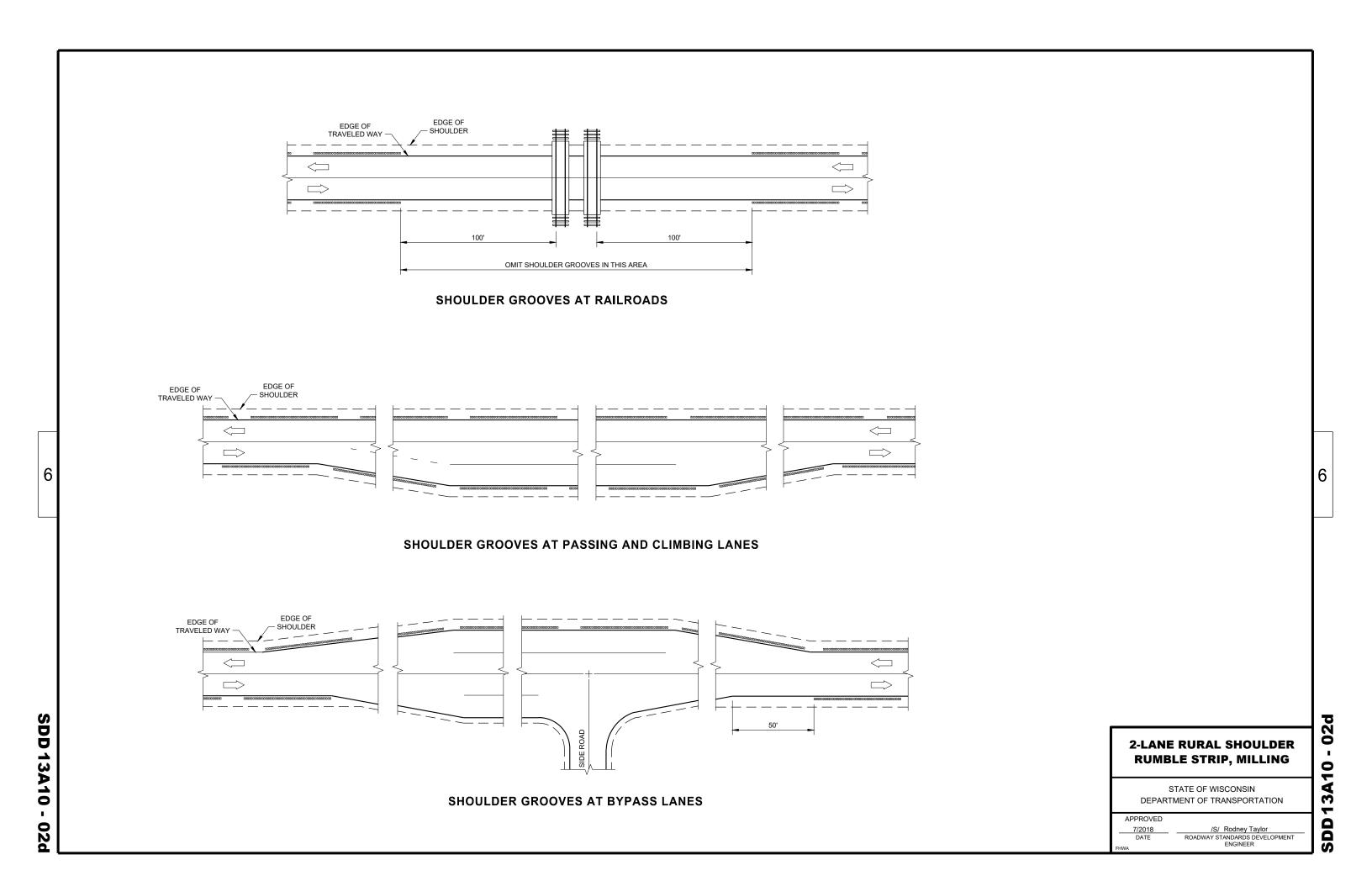


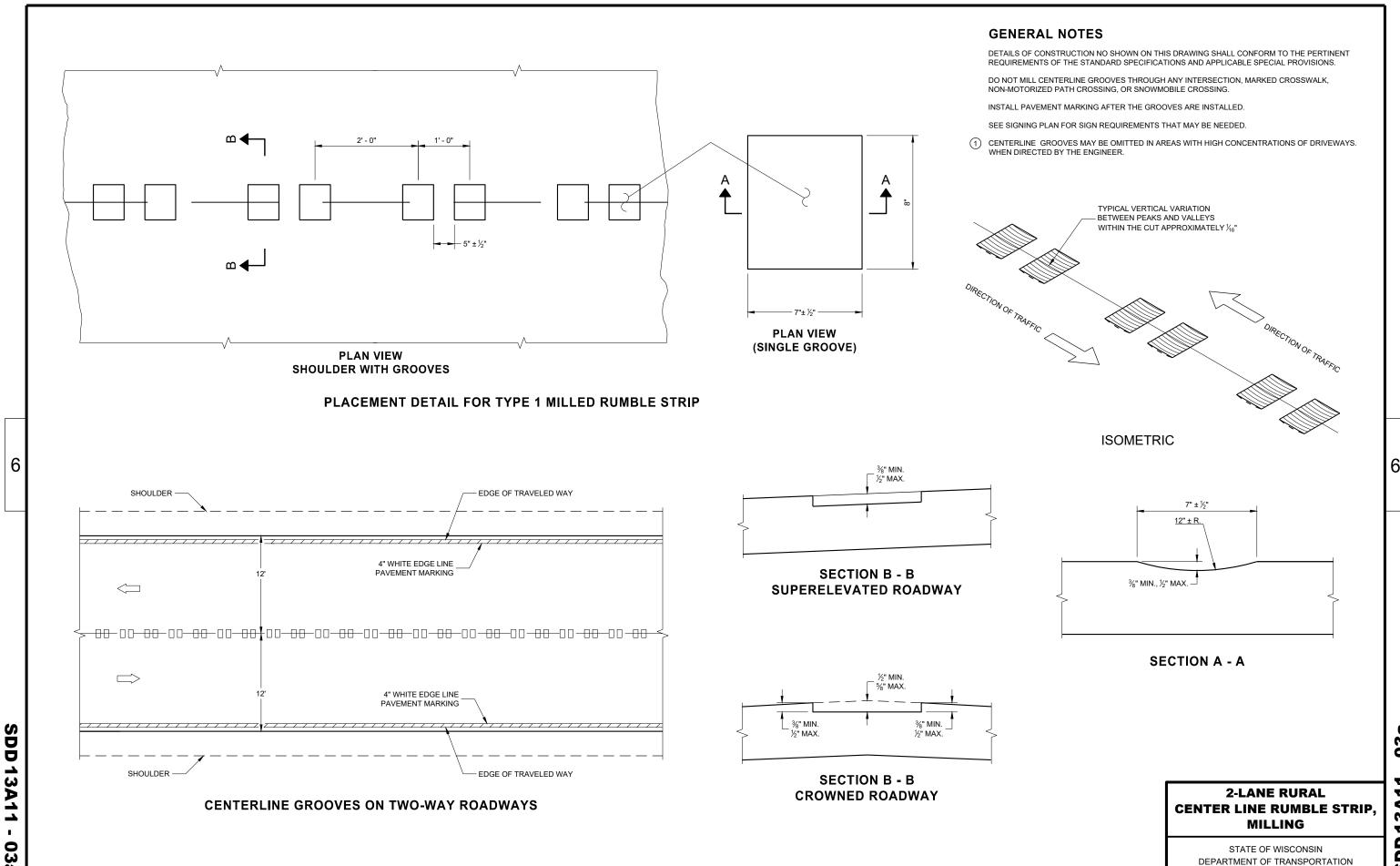




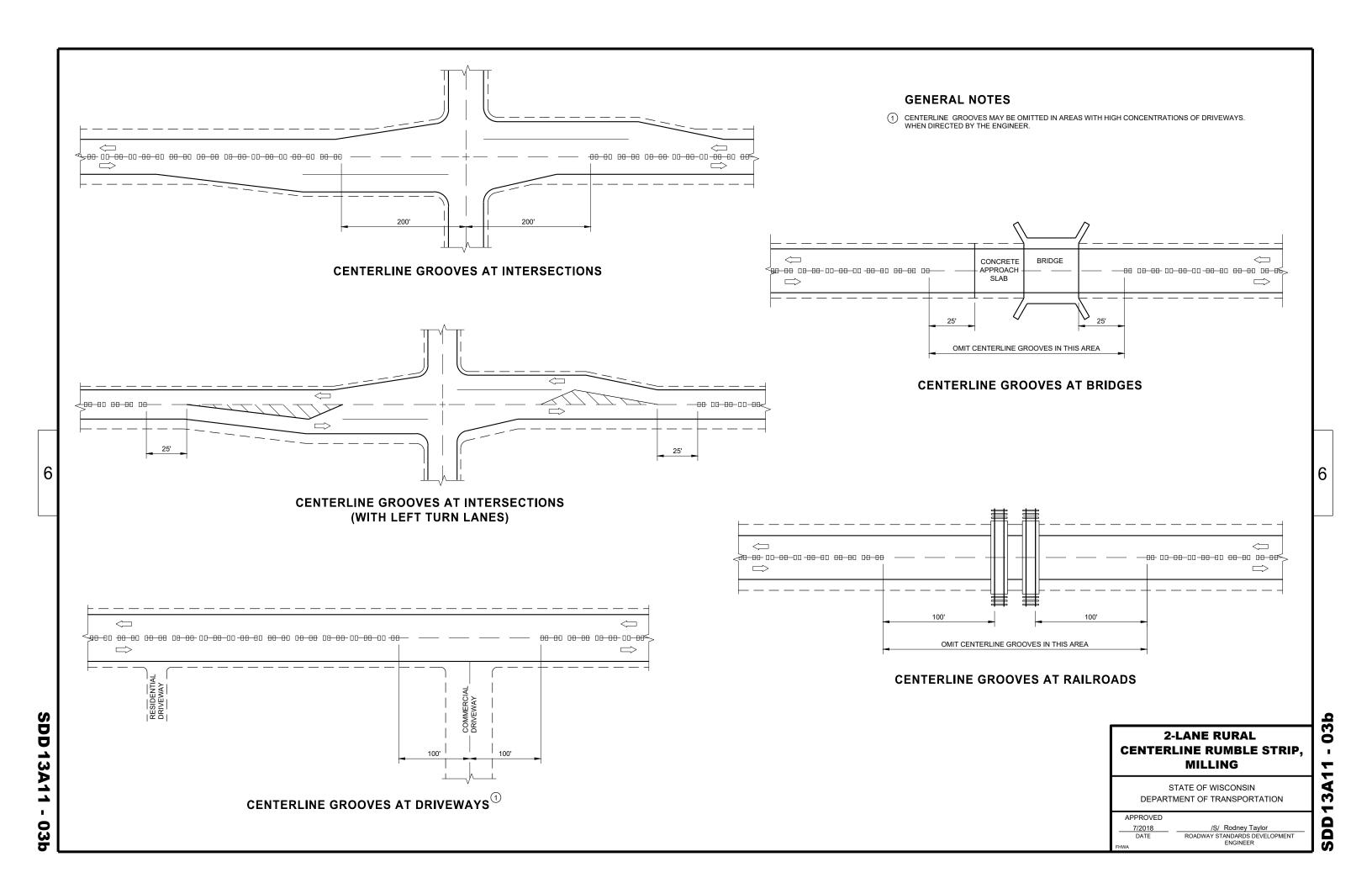
DEPARTMENT OF TRANSPORTATION



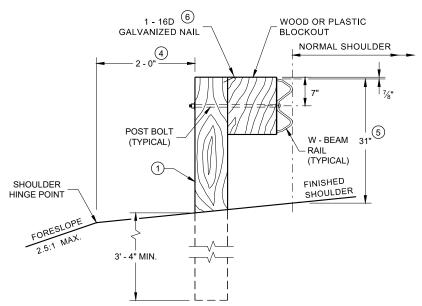




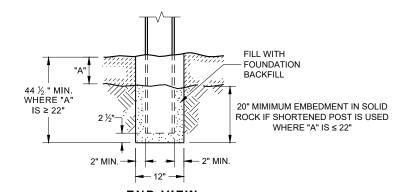
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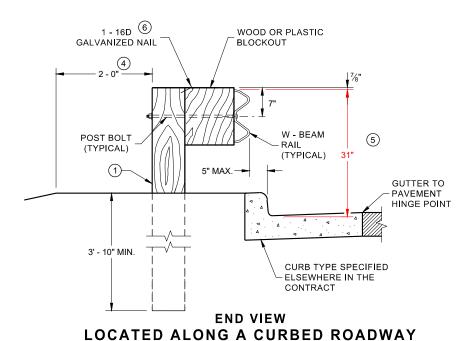
- ② USE WOOD OR APPROVED PLASTIC BLOCKOUTS. WOOD BLOCKOUTS MAY BE CONSTRUCTED OUT OF TWO OR MORE WOOD BLOCKOUTS. SEE ALTERNATE WOOD BLOCKOUT DETAIL. DIMENSIONS OF APPROVED PLASTIC BLOCKOUTS MAY VARY.
- (3) IF ROCK IS ENCOUNTERED DURING EXCAVATION, PROVIDE A HOLE 12 INCHES IN DIAMETER EXTENDING 20 INCHES DEEP INTO THE ROCK. PLACE APPROXIMATELY 2 1/2" INCHES OF GRANULAR MATERIAL IN THE BOTTOM OF THE HOLE. CUT THE POSTS THE TO LENGTH AMD INSTALL. BACKFILL WITH EXCAVATED MATERIAL AND COMPACT. BACKFILL IS TO BE FREE OF LARGE ROCKS.
- 4 WHEN THE DISTANCE FROM BACK OF POST TO SHOULDER HINGE POINT IS LESS THAN 2 FEET INSTALL LONGER POST AT HALF POST SPACING (K).
- $\fill \begin{tabular}{ll} \end{tabular}$ FOR NEW MGS INSTALLATION TOP OF W-BEAM RAIL TOLERANCE IS \$\pm1"\$. FOR EXISTING MGS INSTALLATION TOP OF W-BEAM IS BETWEEN 27 % " TO 32".
- (6) WHEN USING STEEL POST AND WOOD BLOCKOUTS INSTALL FOUR 16D GALVANIZED NAILS. INSTALL NAILS AT THE BACK CORNERS OF THE BLOCK AND BEND THE NAILS OVER THE FLANGE OF THE STEEL POST.
- 7 TOTAL POST LENGTH FOR TYPE K IS 7' 0". TOTAL POST LENGTH FOR OTHER MGS TYPES IS 6' 0".

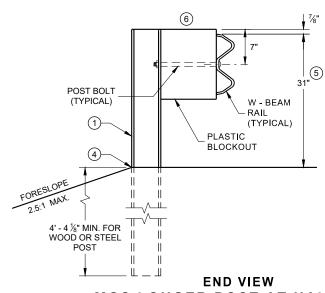


END VIEW
LOCATED ALONG A ROADWAY SHOULDER
STANDARD INSTALLATION

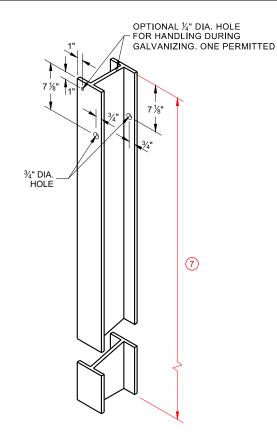


SETTING STEEL OR WOOD POST IN ROCK

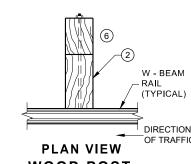




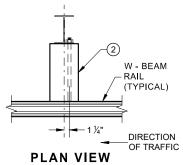
END VIEW
MGS LONGER POST AT HALFPOST
SPACING W BEAM (K)



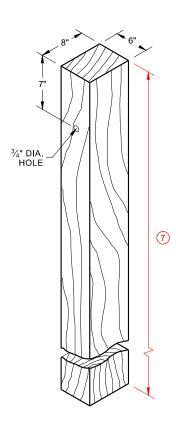
STEEL POST & HOLE PUNCHING DETAIL (W 6 X 9) ①



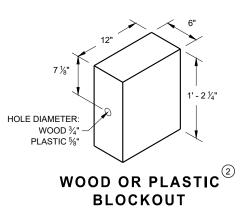
WOOD POST,
BLOCKOUT & BEAM



PLAN VIEW
STEEL POST,
PLASTIC BLOCKOUT & BEAM



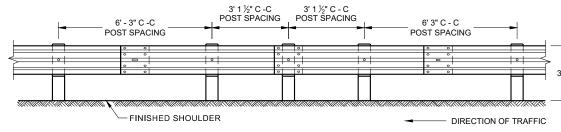
WOOD POST (6" X 8") NOMINAL



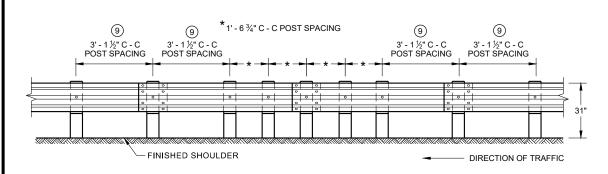
MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

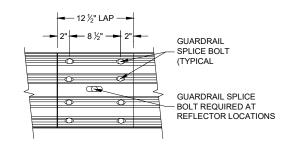
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FRONT VIEW HALF POST SPACING (HS) AND HALF POST SPACING WITH LONGER POSTS (K)



FRONT VIEW **QUARTER POST SPACING (QS)**



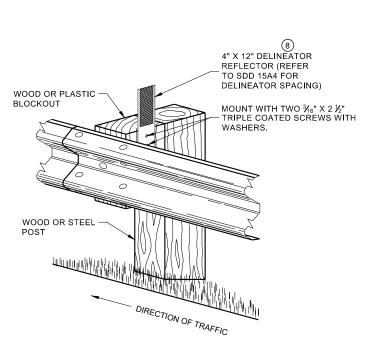
FRONT VIEW MID-SPAN BEAM SPLICE

¾" X 2 ½" POST BOLT Ç POST HOLE SLOT POST BOLT POST BOLT (TYPICAL) - WOOD OR PLASTIC WOOD OR PLASTIC BLOCKOUT BLOCKOUT FINISHED SHOULDER

FRONT VIEW AT STEEL POST

— DIRECTION OF TRAFFIC





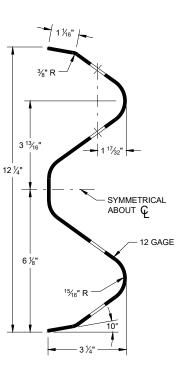
ONE SIDED REFLECTOR DETAIL AND TYPICAL INSTALLATION

GENERAL NOTES

- DO NOT INSTALL REFLECTORS ON THE FIRST 50 FEET OF THE APPROACH END OF THE ENERGY ABSORBING TERMINAL. RAIL SPLICE LOCATIONS ARE THE ONLY ACCEPTABLE LOCATIONS FOR REFLECTORS.
- 25 FEET OF HALF POST SPACING IS REQUIRED ON APPROACH AND DEPARTURE ENDS OF QUARTER POST SPACING.

POST BOLTS ARE A %" DIAMETER ASTM A307 GUARDRAIL BOLT. A POST BOLT REQUIRES %" DIAMETER A563A DOUBLE RECESSED (DR) HEAVY HEX NUT AND %" DIAMETER F844 FLAT WASHER. POST BOLTS MAY BÈ LONGER IF MULTIPLE BLOCKOUTS ARE BEING USED.

GUARD RAIL SPLICE BOLTS ARE A 5/8" DIAMETER ASTM A307 GUARDRAIL HEAD BOLT. A GUARDRAIL SPLICE BOLT REQUIRES %" DIAMETER A563A DOUBLE RECESSED (DR) HEAVY HEX NUT.



SECTION THRU W-BEAM RAIL

MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL

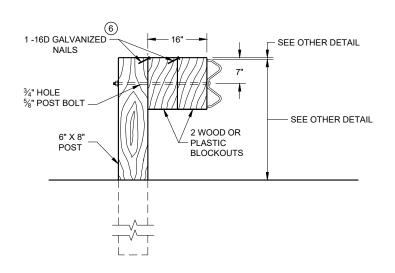
> STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

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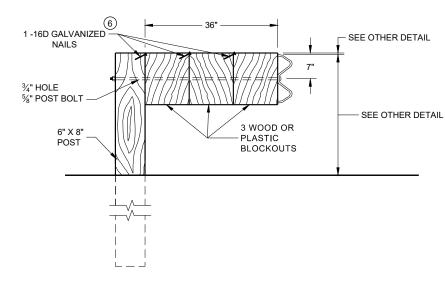
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DETAIL FOR 16" BLOCKOUT DEPTH

IT IS ACCEPTABLE TO USE BLOCKOUTS UP TO 16" DEEP TO INCREASE THE POST OFFSET TO AVOID UNDERGROUND OBSTACLES. THERE IS NO LIMIT TO THE NUMBER OF POSTS THAT CAN HAVE ADDITIONAL BLOCKOUTS UP TO 16" DEEP.



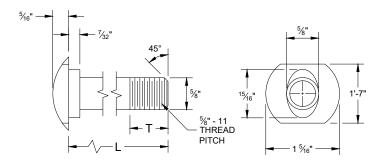
DETAIL FOR 36" BLOCKOUT DEPTH

NOTES: UNDER SPECIAL CIRCUMSTANCES, SUCH AS AVOIDING OBSTACLES THAT ARE NOT RELOCATED, IT IS ACCEPTABLE TO INSTALL ADDITIONAL BLOCKOUTS TO OBTAIN UP TO 36" DEPTH FOR ONE OR TWO POSTS IN A SECTION OF GUARDRAIL.

DO NOT USE 16" OR 36" BLOCKOUTS IF IT CAUSES THE POST TO BE DRIVEN BEYOND SHOULDER HINGE POINT OR CAUSES A FIXED OBJECT TO BE WITHIN THE DEFLECTION DISTANCE OF THE BARRIER.

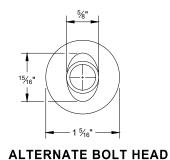
NOTE:

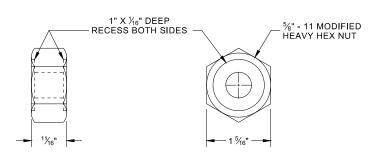
- 1. ALL FILLETS SHALL HAVE A MINIMUM RADIUS OF $\frac{3}{16}$ ".
- 2. IF THE BOLT EXTENDS MORE THAN $\mbox{\ensuremath{\mbox{\sc M}}}\mbox{\sc "}\mbox{\sc FROM THE NUT THE BOLT SHOULD BE TRIMMED BACK.}$



POST BOLT TABLE

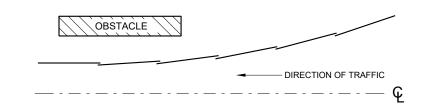
L	T (MIN.)
1 1⁄4"	1 1/4"
2"	1 3/4"
10"	4"
14"	4 1/16"
18"	4"
21"	4 1/16"
25"	4"



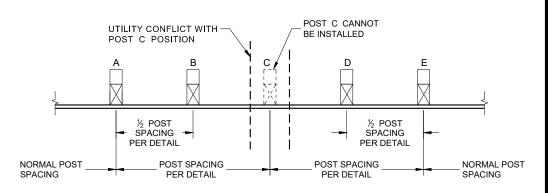


POST BOLT, SPLICE BOLT **AND RECESS NUT**

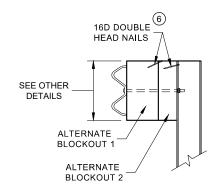
WHEN USING STEEL POST AD WOOD BLOCKOUTS, INSTALL FOUR 16D (6) GALVANIZED NAILS. INSTALL NAILS AT THE BACK CORNERS OF THE BLOCK AND BEND THE NAILS OVER THE FLANGE OF THE STEEL POST.

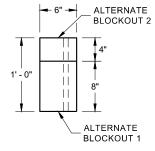


PLAN VIEW BEAM LAPPING DETAIL



POST DRIVING FOR CONTINUOUS UNDERGROUND OBSTRUCTION





SIDE VIEW

ALTERNATE WOOD BLOCKOUT DETAIL

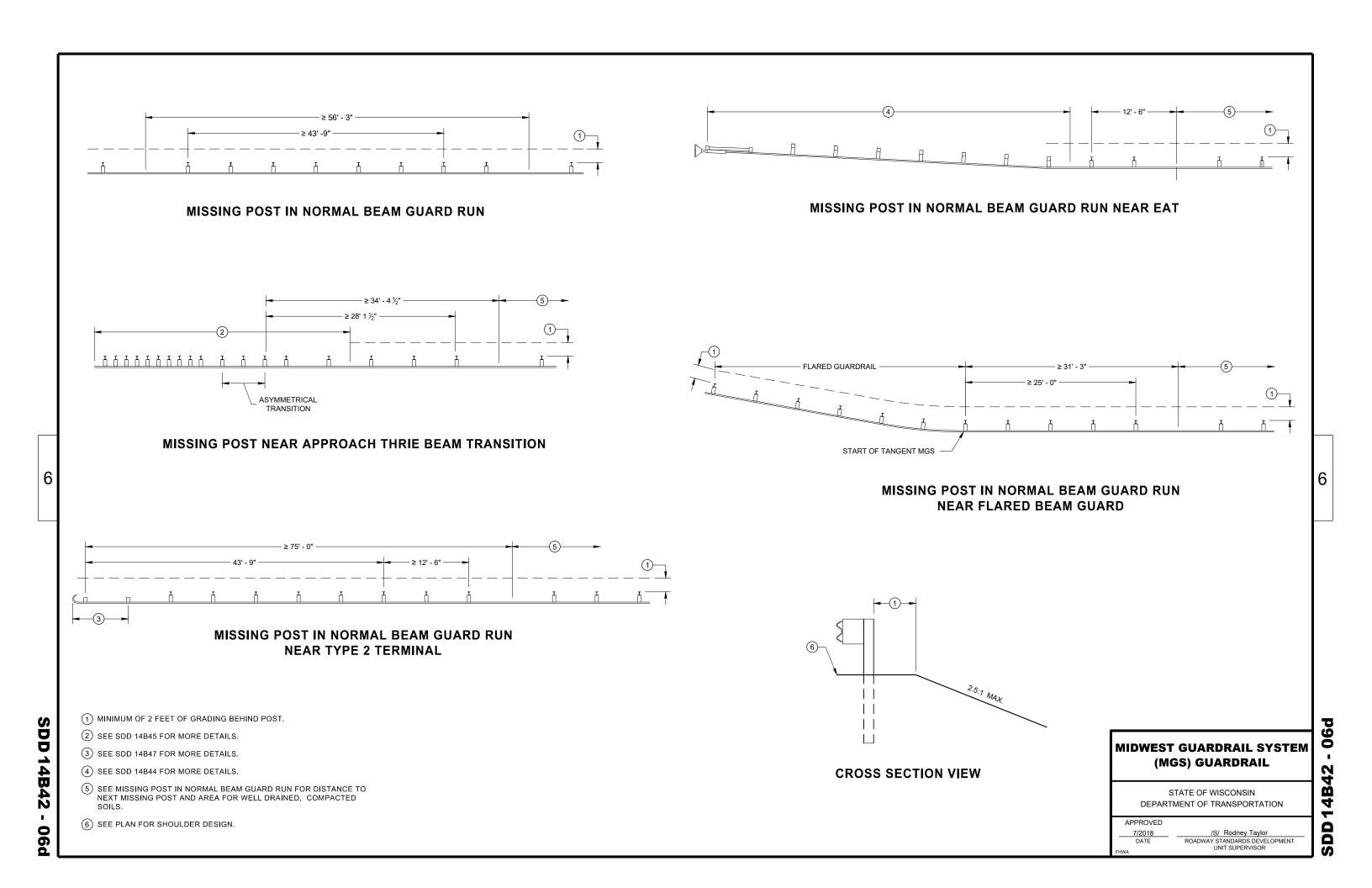
MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL

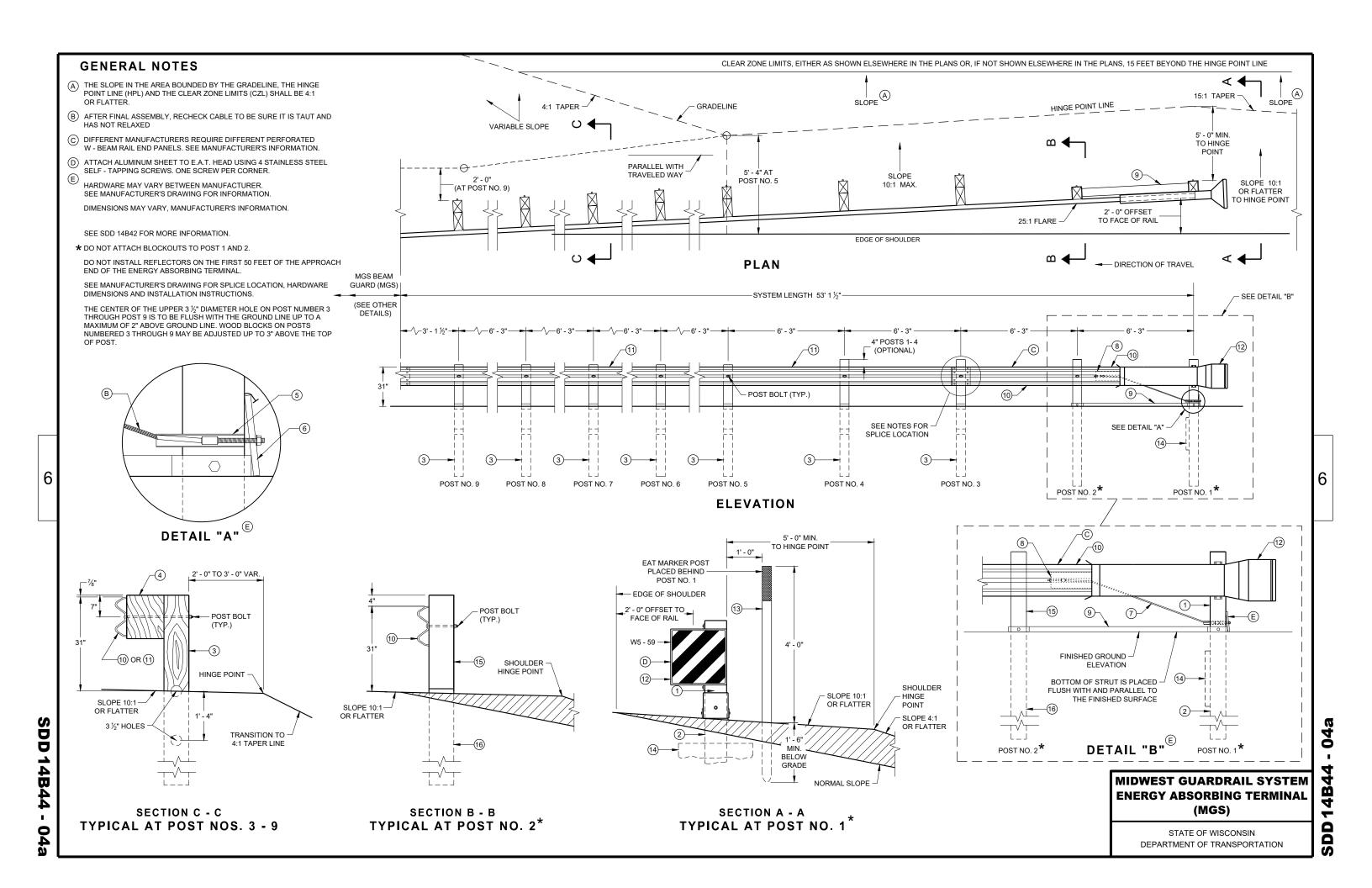
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

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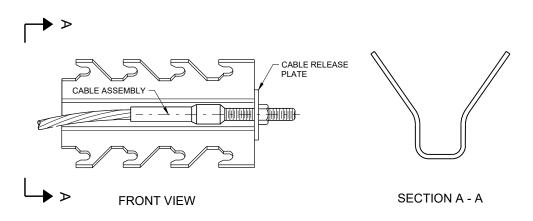
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PLAN VIEW

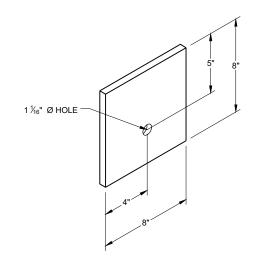




GENERIC GROUND STRUT



GENERIC ANCHOR CABLE BOX ^{(9) (E)}

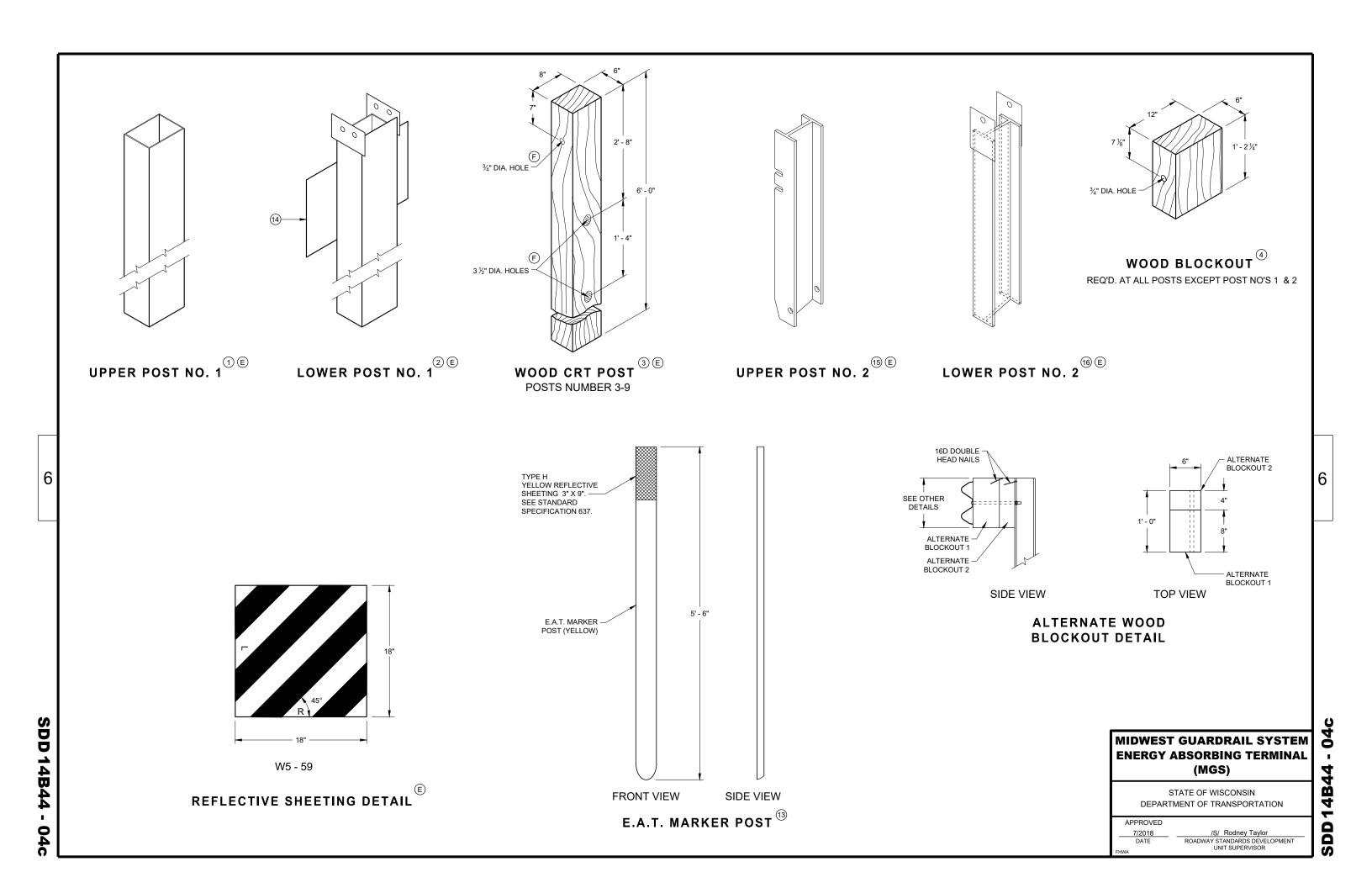


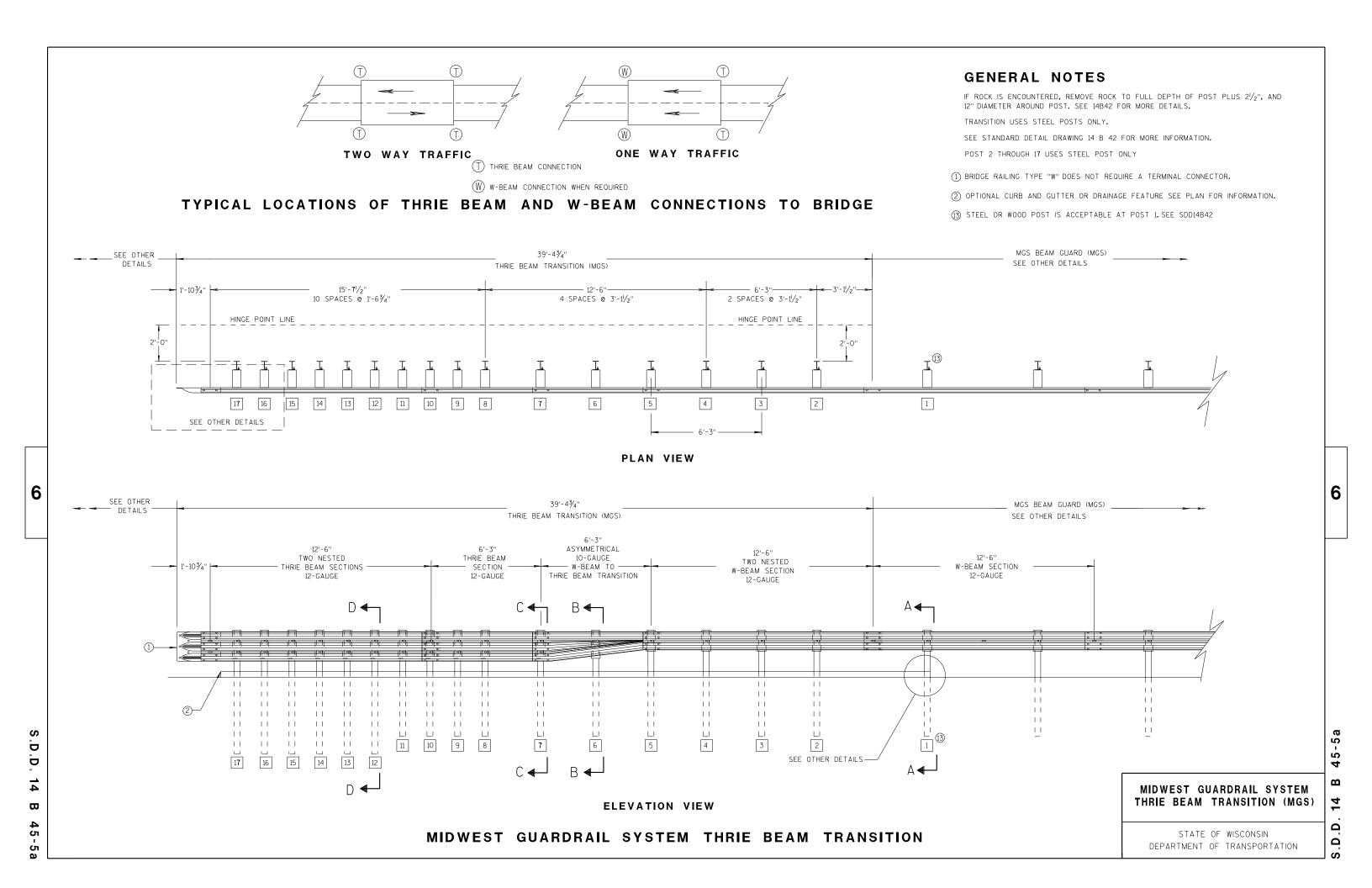
BEARING PLATE

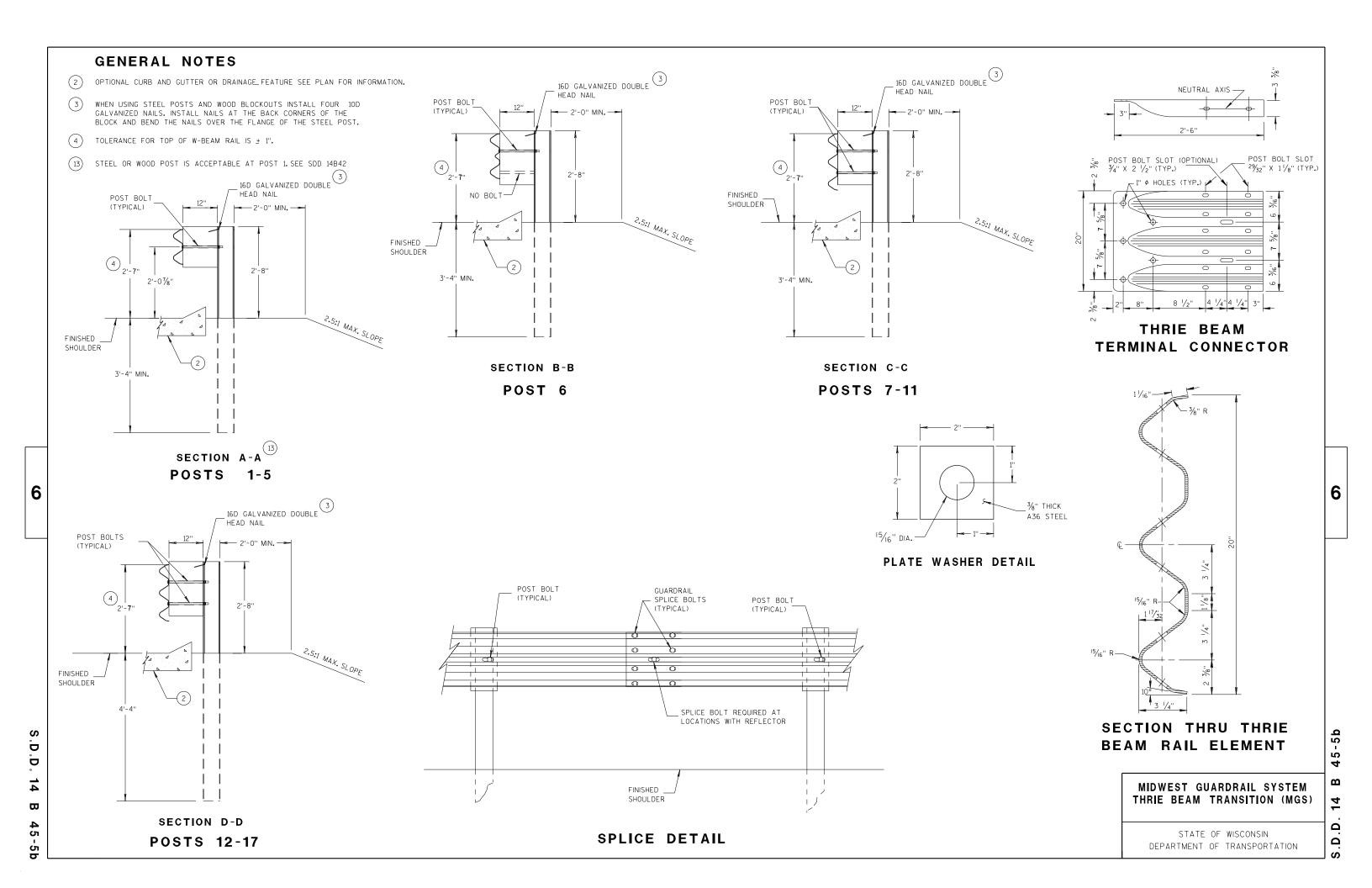
MIDWEST GUARDRAIL SYSTEM ENERGY ABSORBING TERMINAL (MGS)

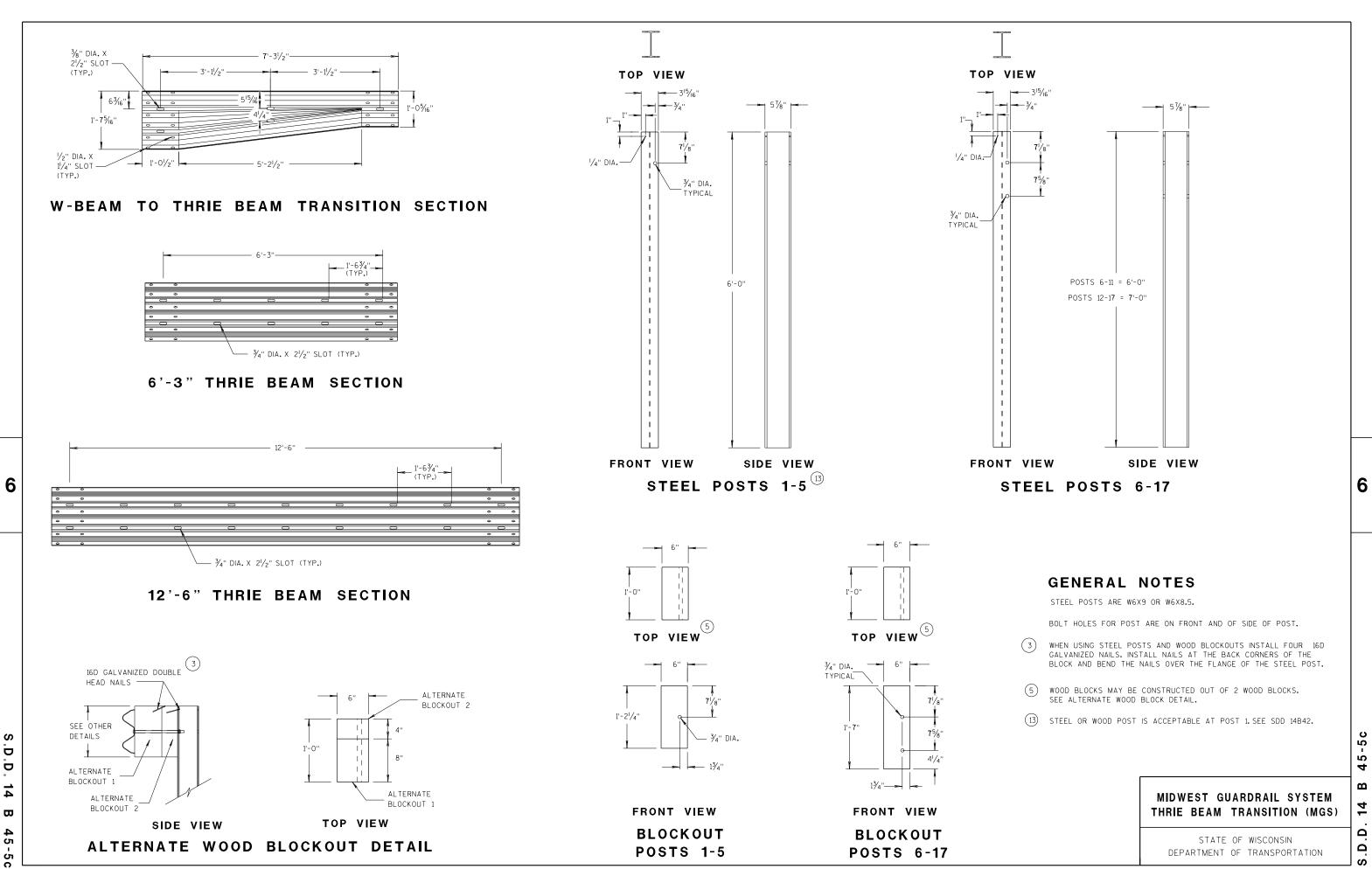
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

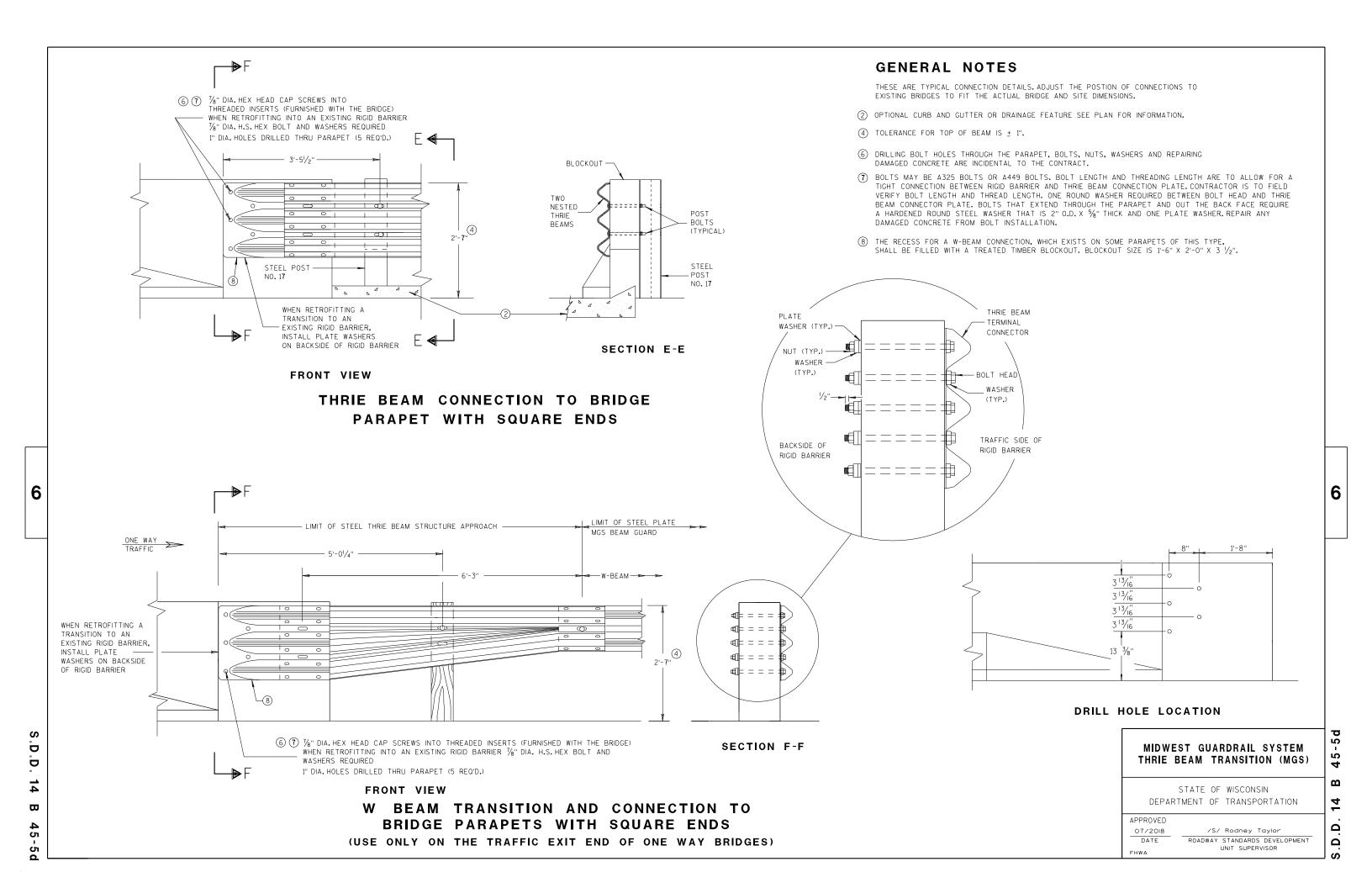
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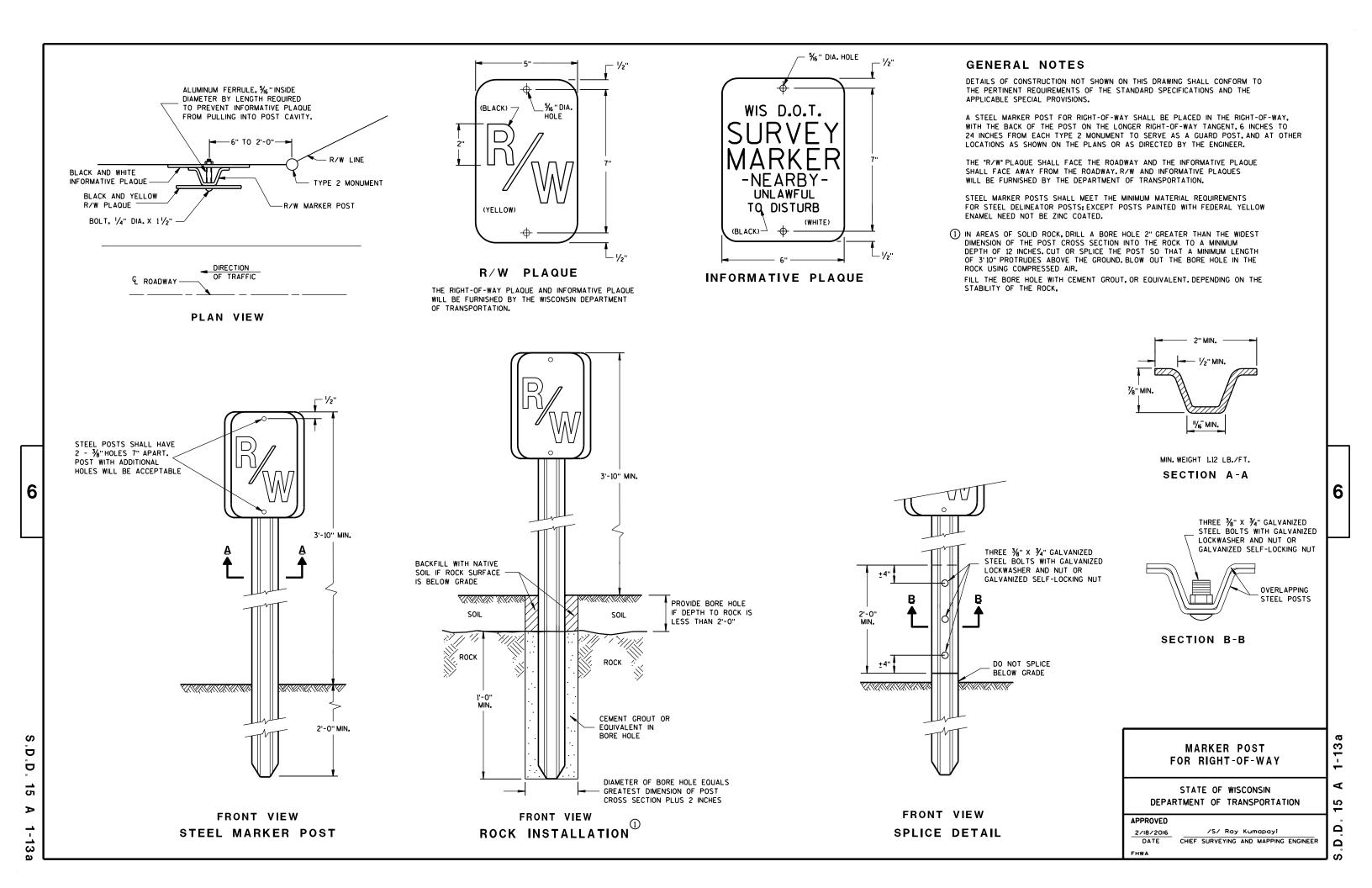












GENERAL NOTES

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

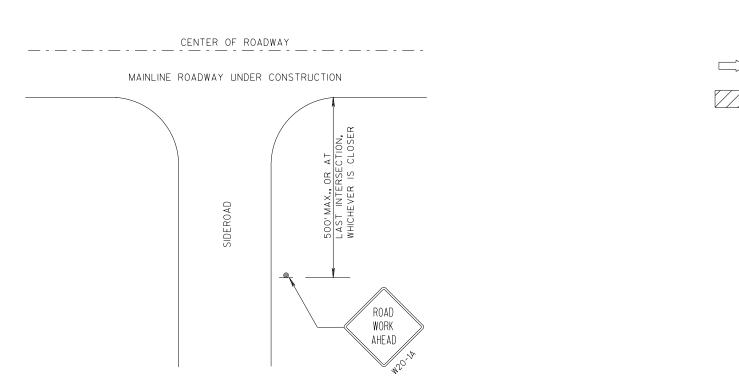
THE SPACING BETWEEN TRAFFIC CONTROL SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND SHOULD PROVIDE A MINIMUM OF 200 FEET (500 FEET DESIRABLE) CLEARANCE TO EXISTING SIGNS THAT WILL REMAIN IN PLACE.

ALL SIGNS ARE 48"x48" UNLESS OTHERWISE NOTED.

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

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

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



LEGEND

SIGN ON PERMANENT SUPPORT

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DIRECTION OF TRAFFIC

WORK AREA

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

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

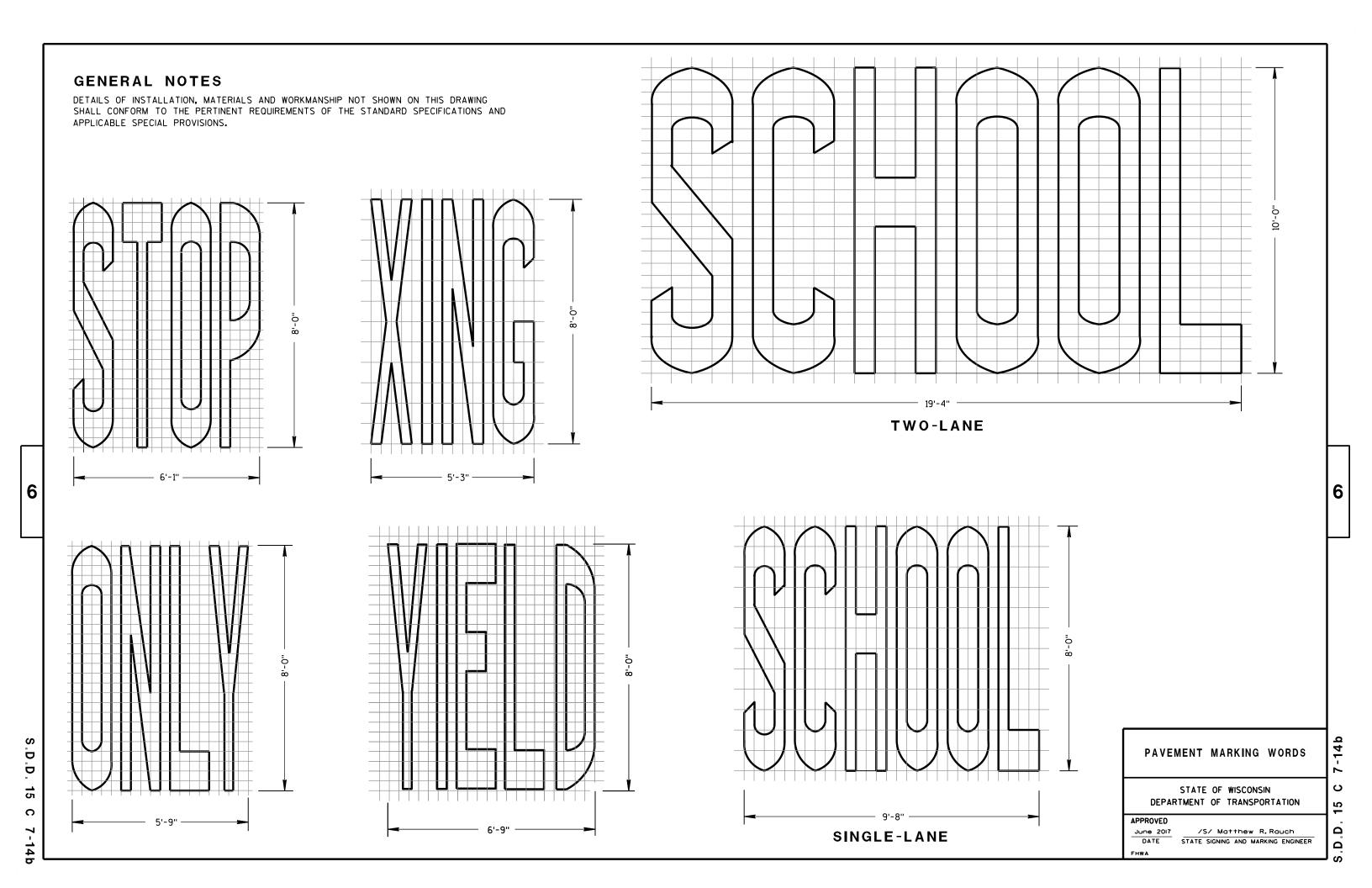
7/2018 /S/ Andrew Heidtke

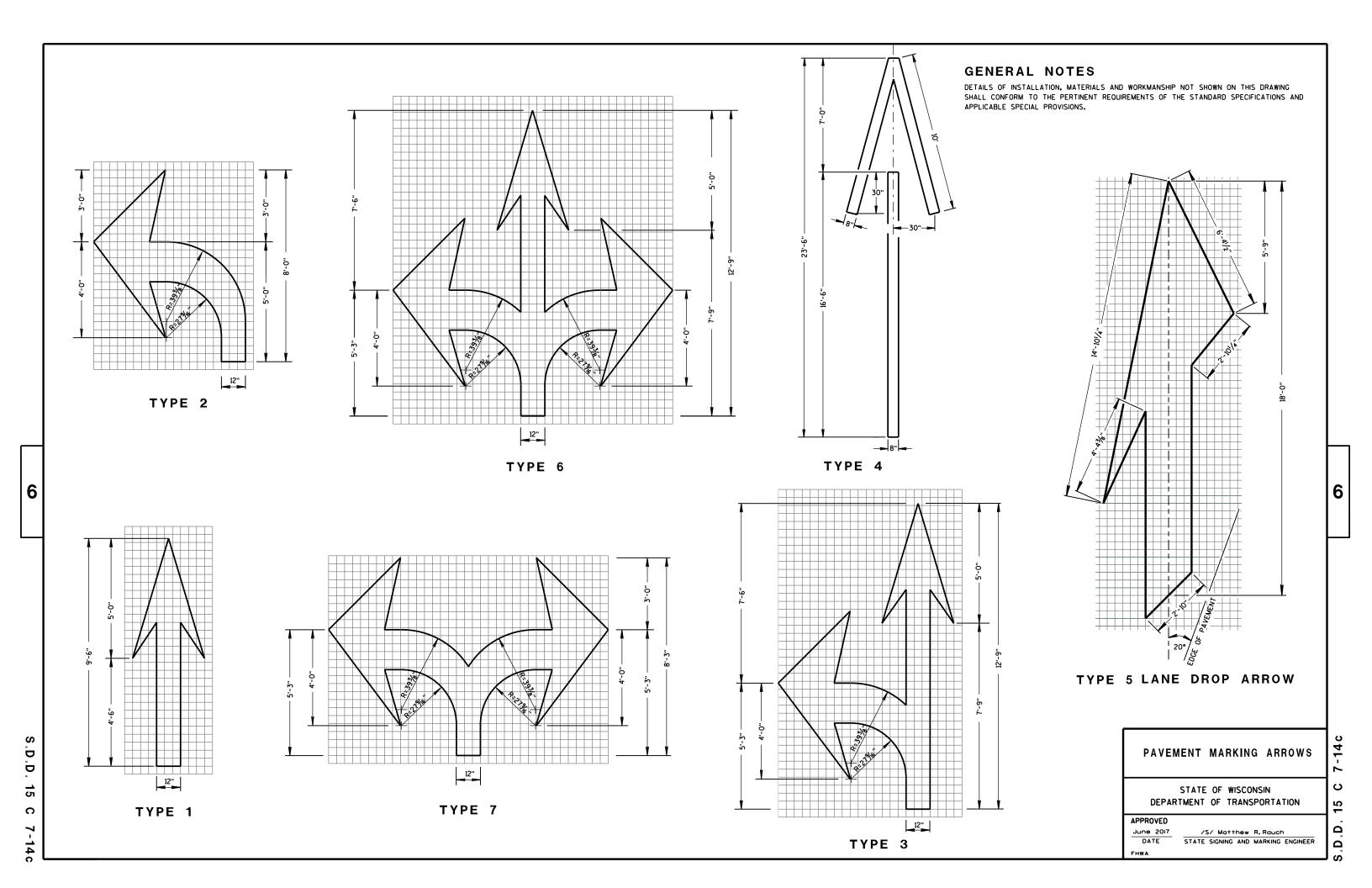
DATE WORK ZONE ENGINEER

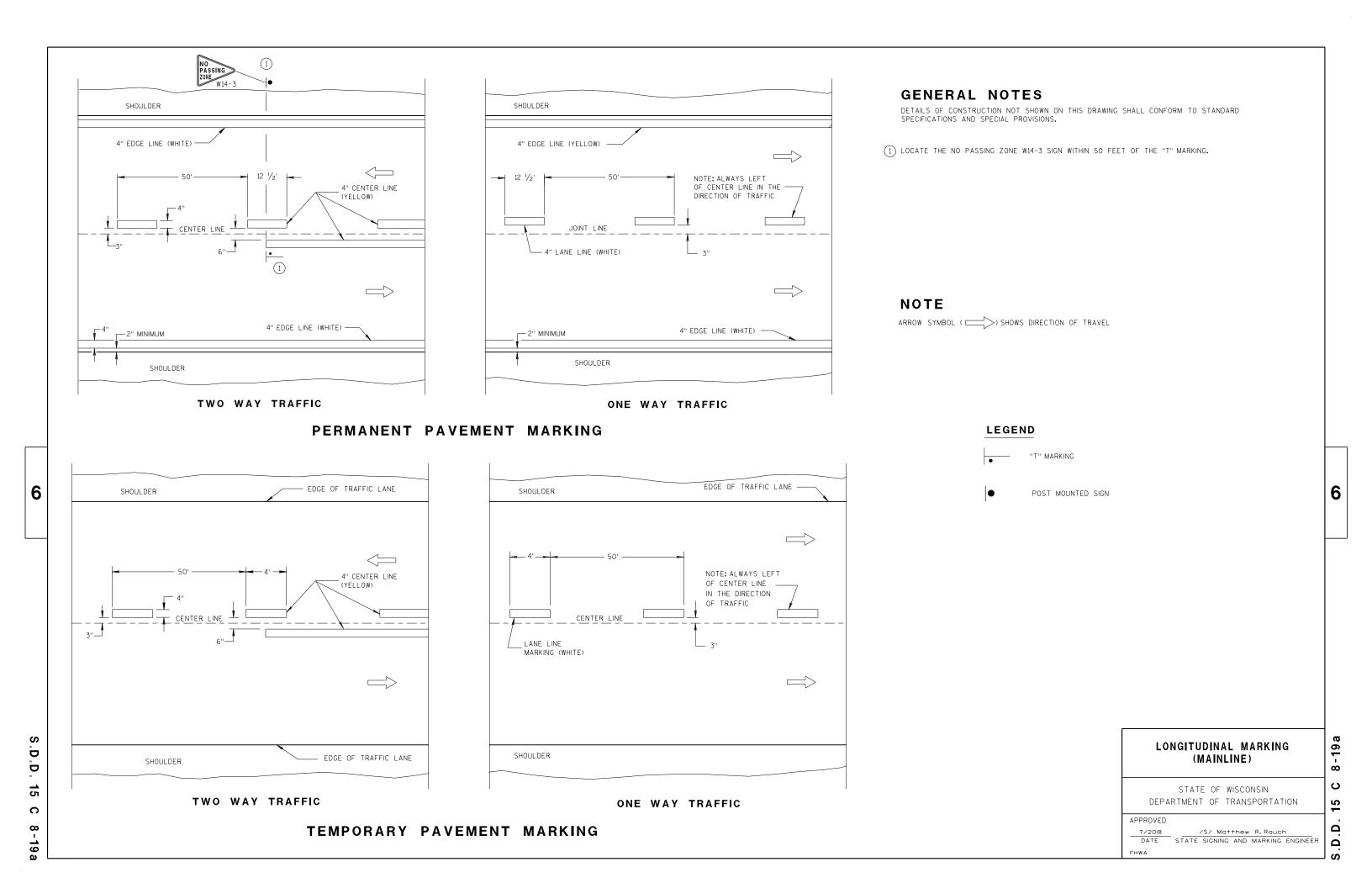
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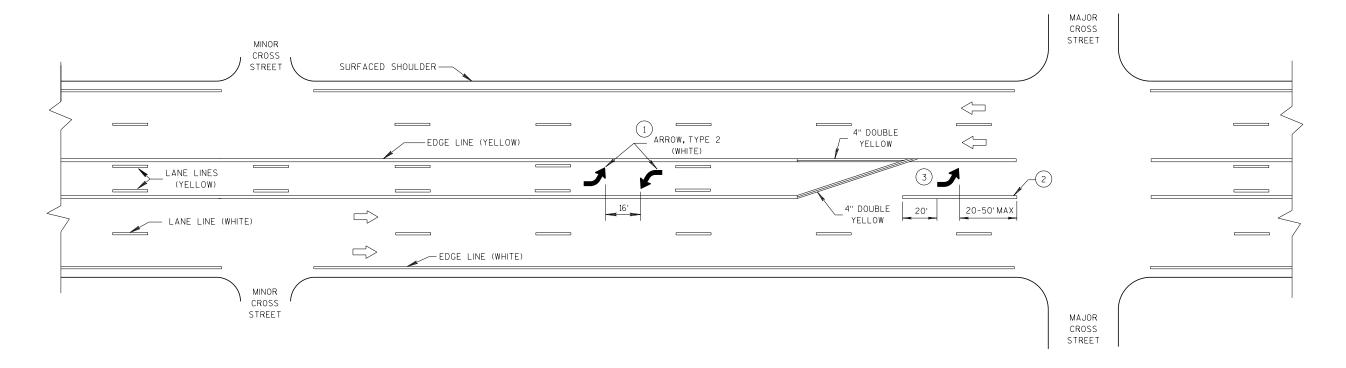








- 1 A SET OF ARROWS IS REQUIRED EVERY 400 FEET OR NEAR INTERSECTIONS OR DRIVEWAYS WITH TURNING TRAFFIC.
- 2 8" WHITE
- (3) TURN BAY LENGTH OF LESS THAN 48'DOES NOT REQUIRE PAVEMENT ARROWS OR TEXT
- DIRECTION OF TRAFFIC



TWO WAY LEFT TURN LANE

PAVEMENT MARKING (TURN LANES) 6

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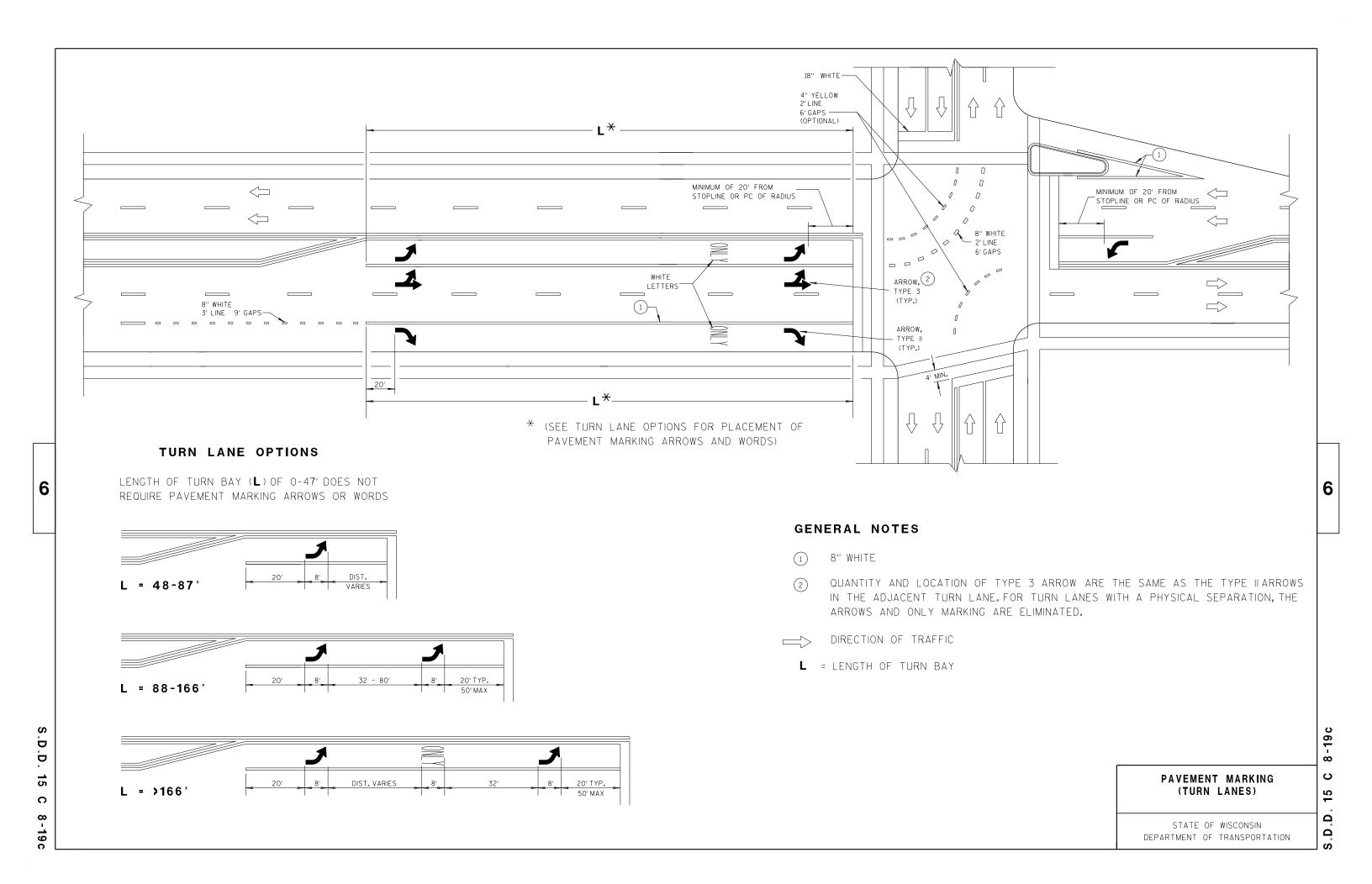
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STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

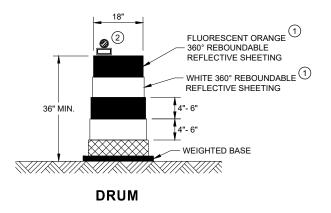
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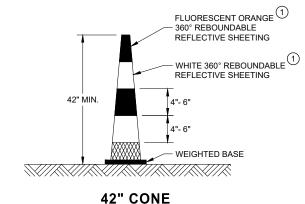


SDD 15C11

GENERAL NOTES

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



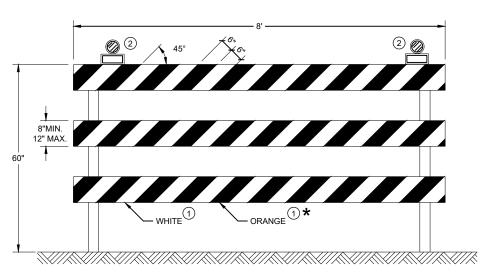


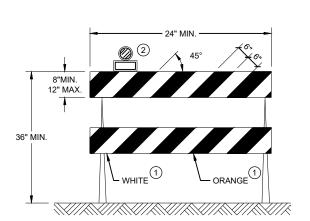


THE STRIPES SHALL SLOPE DOWNWARD TO

THE TRAFFIC SIDE FOR CHANNELIZATION.

DO NOT USE IN TAPERS ½ SPACING OF DRUMS





TYPE II BARRICADE

FOR RAILS LESS THAN 36" LONG, 4" WIDE STRIPES MAY BE USED. ALL STRIPES SHALL SLOPE DOWNWARD TO THE TRAFFIC SIDE FOR CHANNELIZATION.

TYPE III BARRICADE

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

* IF USED FOR A PERMANENT APPLICATION USE RED SHEETING.

CHANNELIZING DEVICES DRUMS, CONES, BARRICADES AND VERTICAL PANELS

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

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

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SDD

TRAFFIC CONTROL FOR LANE CLOSURE WITH FLAGGING OPERATION

STOP/SLOW PADDLE ON SUPPORT STAFF

5' MIN.

WORK

AHEAD

48" X 24"

END ROAD WORK (2)

W20-1A

GENERAL NOTES

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

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

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

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

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

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

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

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

- * UTILIZE TEMPORARY RUMBLE STRIPS WHEN FLAGGING OPERATION IS ANTICIPATED TO BE STATIONARY IN EXCESS OF TWO HOURS.
- 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.
- 2 SIGN NOT REQUIRED IF FLAGGING OPERATION OCCURS WITHIN A SIGNED ROAD WORK ZONE AREA.
- 3 EACH TEMPORARY RUMBLE STRIP ARRAY CONSISTS OF THREE RUMBLE STRIPS SPACED ACCORDING TO MANUFACTURER'S RECOMMENDATION, PLACED TRANSVERSE ACROSS THE LANE AT LOCATIONS SHOWN.

TRAFFIC CONTROL FOR LANE CLOSURE WITH FLAGGING OPERATION

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

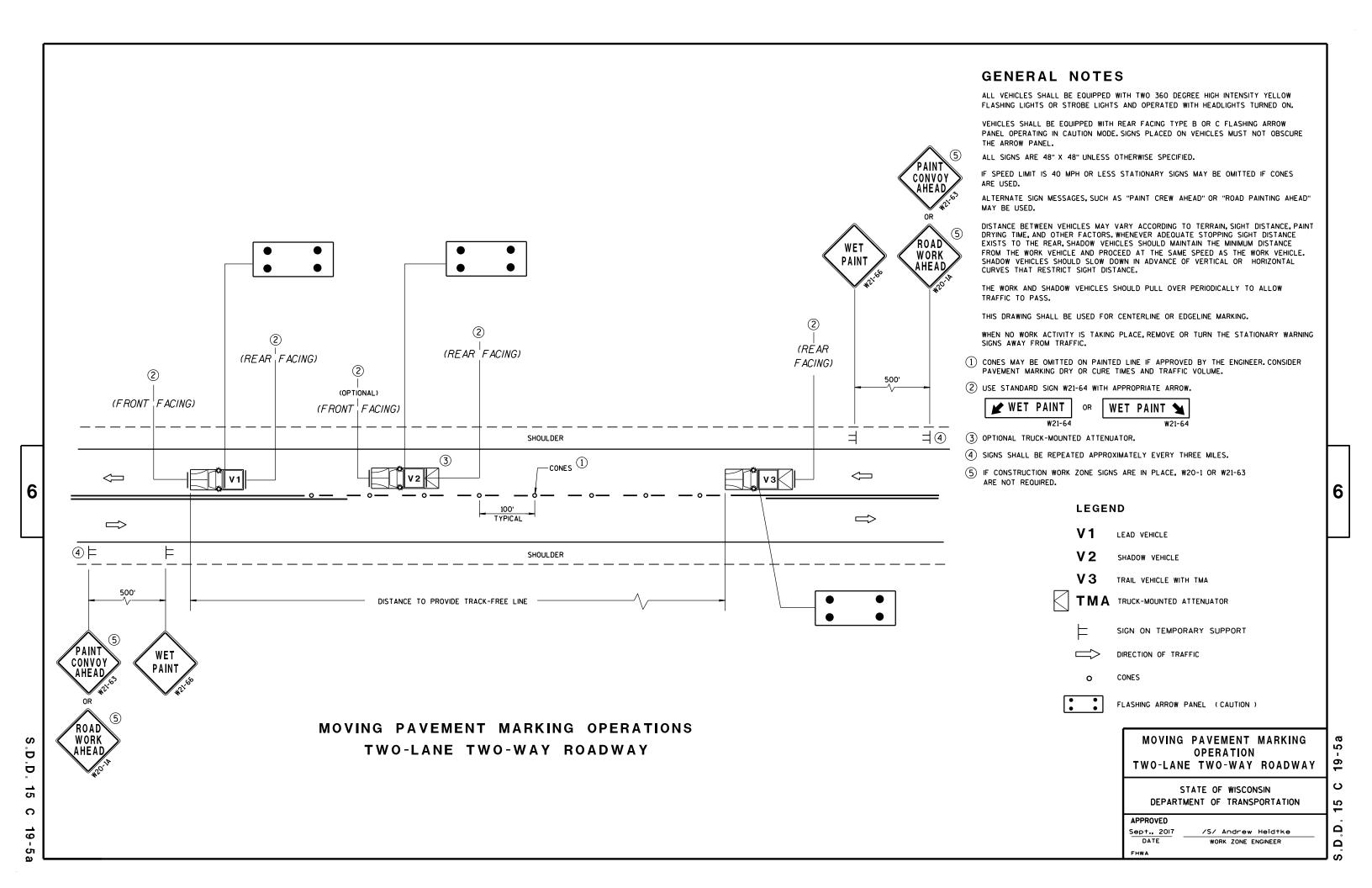
APPROVED	
June 2017	/S/ Andrew Heidtke
DATE	WORK ZONE ENGINEER
FHWA	

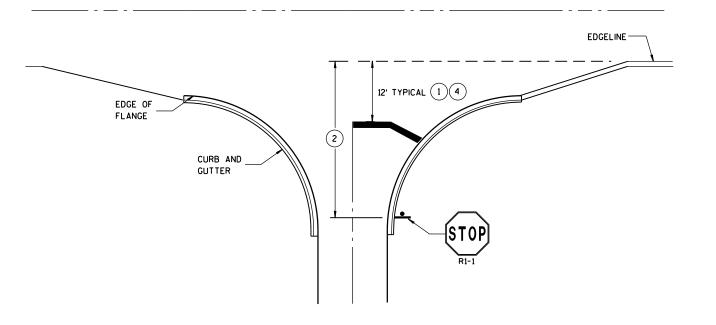
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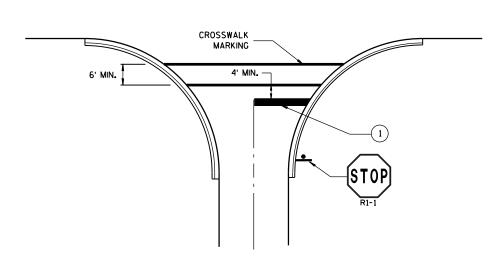




8" CHANNELIZATION WHITE FLANGELINE (EXTENSION) WHITE EDGELINE 4' TYPICAL (4)

TYPICAL STOP LINE PAVEMENT MARKING WITH CURB AND GUTTER

TYPICAL STOP LINE PAVEMENT MARKING FOR SIDEROADS WITH RIGHT TURN LANE



- EDGELINE 12' TYPICAL (1)

TYPICAL STOP LINE PAVEMENT MARKING FOR SIDEROADS WITH CROSSWALK MARKING

TYPICAL STOP LINE PAVEMENT MARKING WITHOUT CURB AND GUTTER

GENERAL NOTES

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

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

STOP LINE AND CROSSWALK **PAVEMENT MARKING**

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

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

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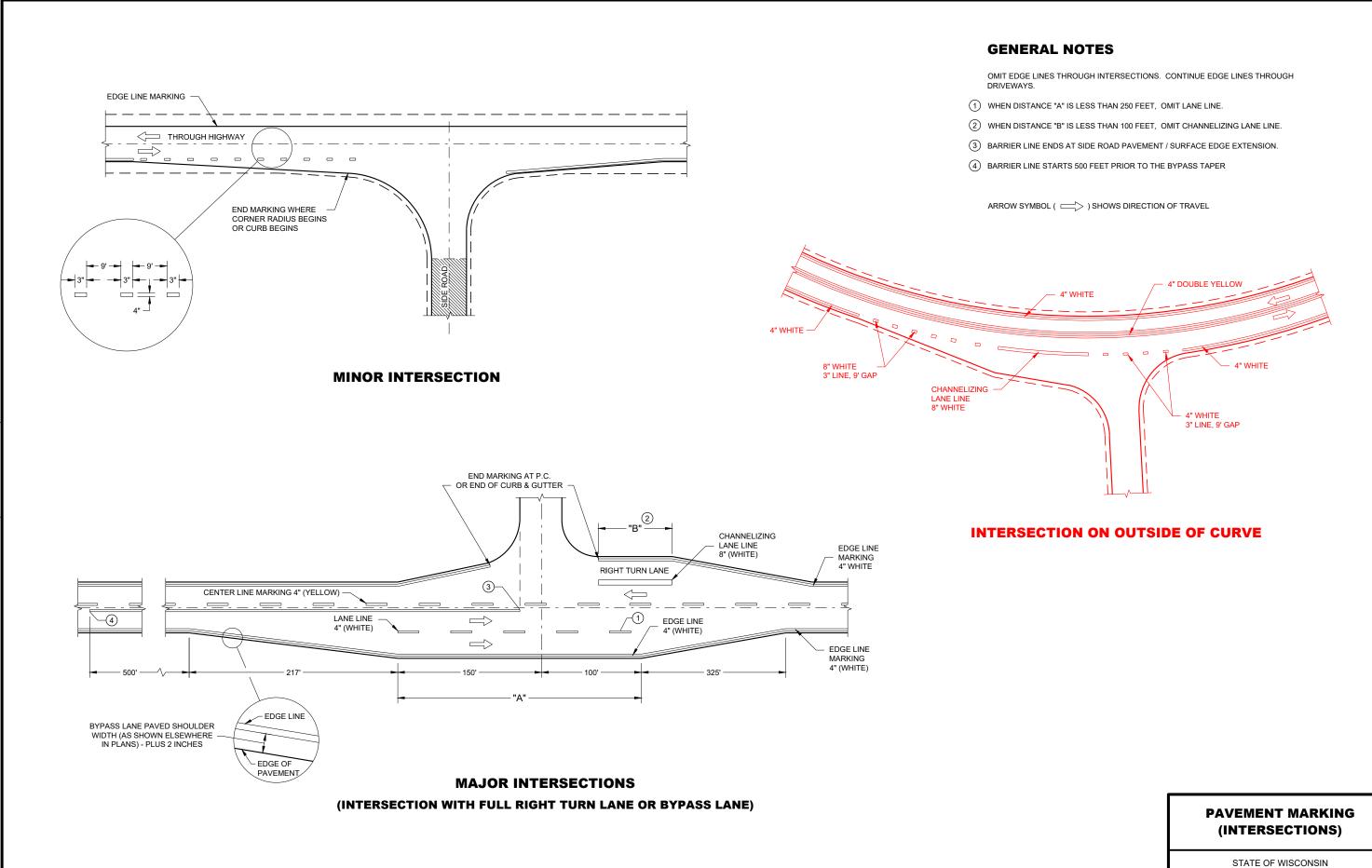
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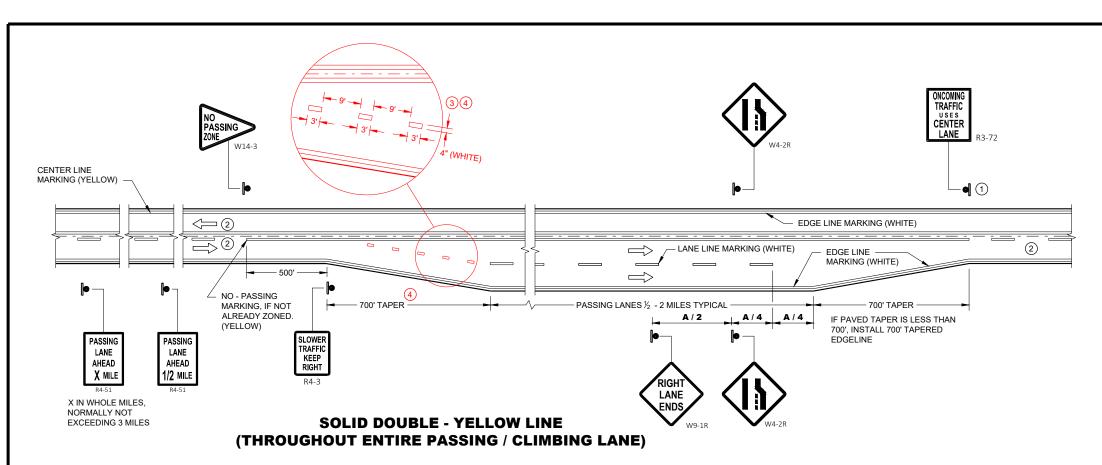
15C35

DEPARTMENT OF TRANSPORTATION

SDD

03b

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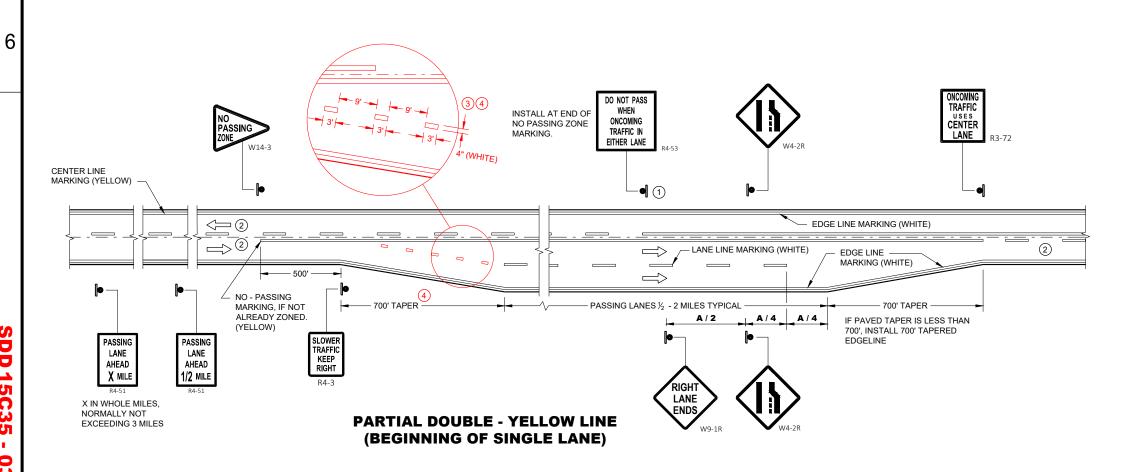
GENERAL NOTES

- \bigodot Sign shall be repeated at 1 mile increments or at the discretion of the regional traffic engineer.
- 2) THERE MAY BE SOLID YELLOW ON THE CENTERLINE DUE TO SIGHT CONDITIONS.
- (3) THE TAPER LENGTH OF THE DOTTED LINE PAVEMENT MARKING SHALL BE 700 FEET, 3' LINE, 9' GAP, EXCEPT RETRACE THE EXISTING LINE GAP PATTERN WHERE EXISTING MARKINGS ARE IN PLACE.
- 4 WHEN THE ENTRANCE TAPER IS LESS THAN 700 FEET OR THE SHOULDER WIDTH IN THE PASSING / CLIMBLING LANE IS LESS THAN THE ADJACENT HIGHWAY, DO NOT INSTALL DOTTED LINE PAVEMENT MARKING.

ARROW SYMBOL () SHOWS DIRECTION OF TRAVEL

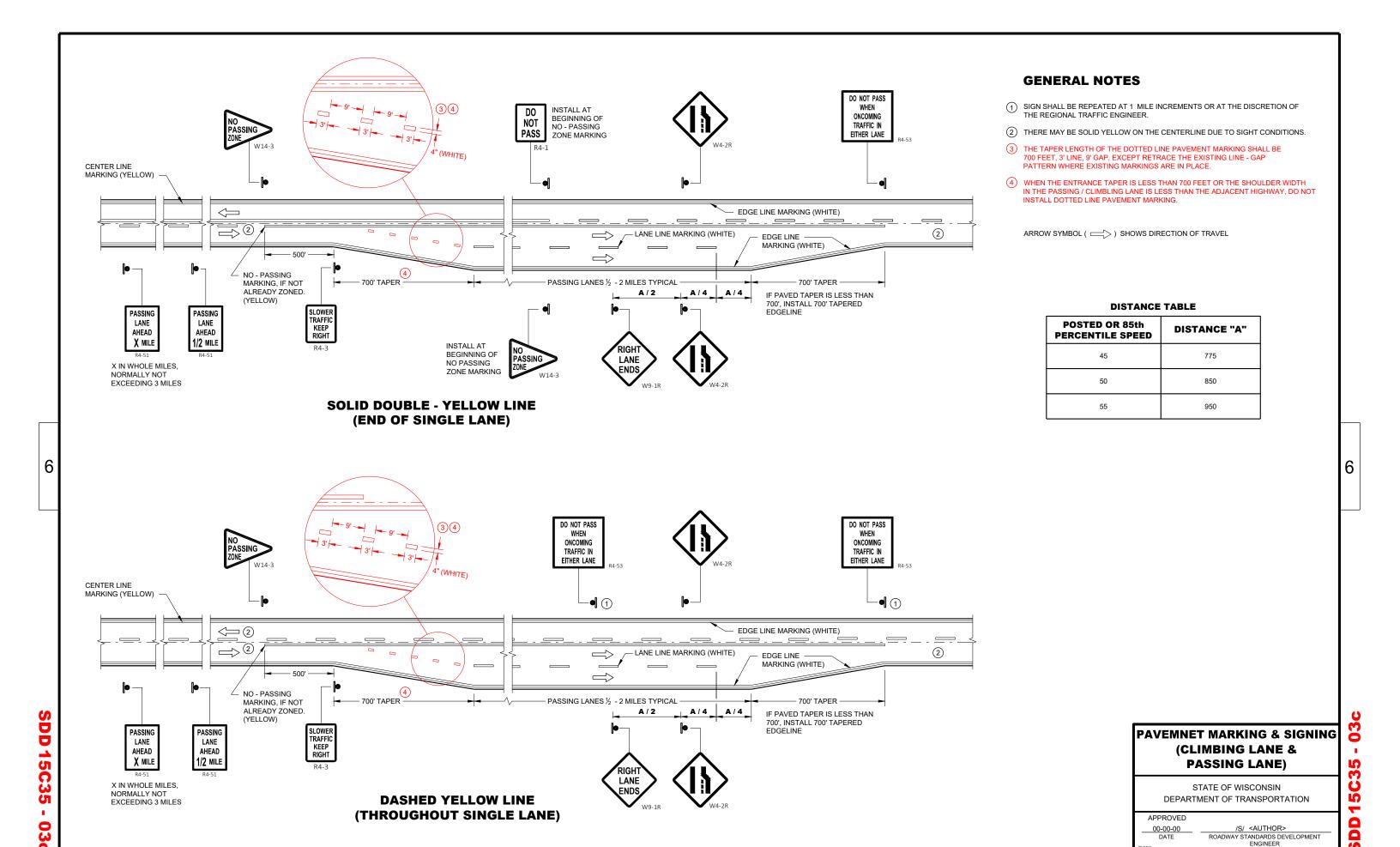
DISTANCE TABLE

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

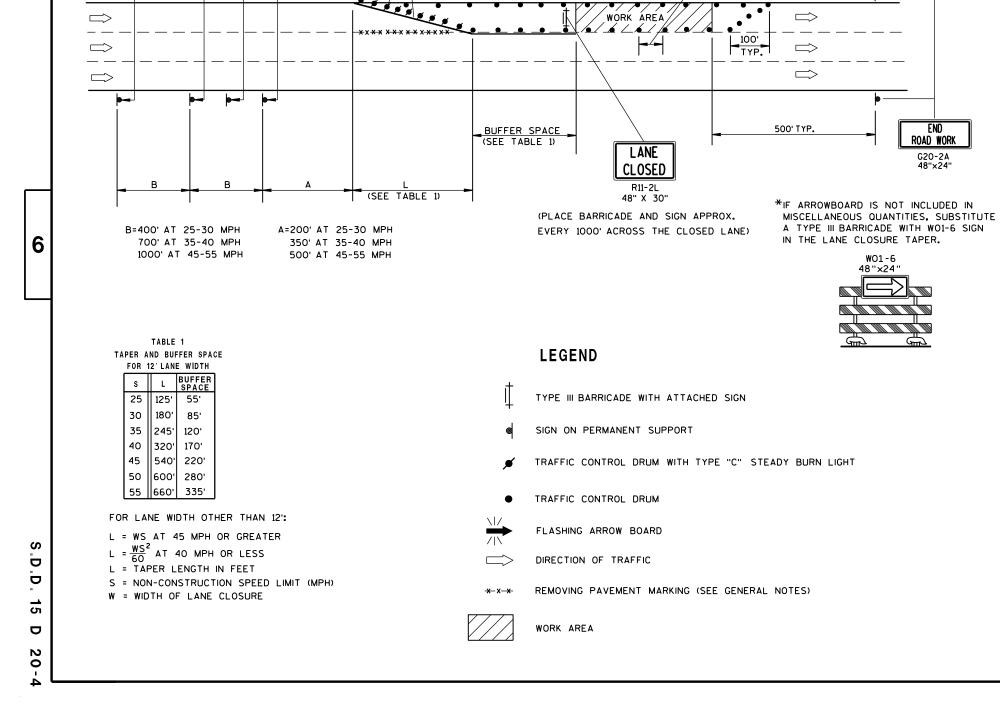


PAVEMENT MARKING & SIGNING (CLIMBING LANE &

> STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION







(5) DRUMS SPACED @ 10'

INTERVALS AS NEEDED IN

FRONT OF ARROW BOARD

TEMPORARY PAVEMENT MARKING.

4-INCH REMOVABLE TAPE (WHITE ON RIGHT,

25'@ 35 MPH OR LESS 50'@ 40 MPH OR MORE

YELLOW ON LEFT)

SPACING:

ROAD WORK

NEXT___MILES

G20-1

60" X 24"

CLOSED

AHEAD

AHEAD

GENERAL NOTES

**THE LINE OF DRUMS SHOWN ALONG THE MEDIAN/CENTERLINE

ADJACENT TO THE WORK AREA. FOR THIS CONDITION INSTALL

W20-1 "ROAD WORK AHEAD" SIGN FOR OPPOSING DIRECTION OF

50' MAX. @ 35 MPH OR LESS

100' MAX. @ 40 MPH OR MORE

IS REQUIRED ONLY WHERE THERE IS OPPOSING TRAFFIC

TRAFFIC. IN ADVANCE OF THE WORK AREA.

SPACING:

THIS LANE CLOSURE DETAIL IS TYPICAL FOR CLOSING THE LEFT LANE. FOR A RIGHT LANE CLOSURE, REVERSE THE TRAFFIC CONTROL.

THIS DETAIL MAY BE USED FOR ROADWAYS WITH EITHER TWO OR THREE LANES IN EACH DIRECTION.

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

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

ALL SIGNS ARE 48"×48" UNLESS OTHERWISE NOTED. IF NECESSARY DUE TO SPACE CONSTRAINTS IN URBAN AREAS, 36" X 36" SIGNS MAY BE USED IF APPROVED BY DISTRICT TRAFFIC UNIT.

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

SIGNS THAT WILL BE IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS, OR THAT WILL BE PLACED IN A CLOSED LANE, MAY BE MOUNTED ON PORTABLE SUPPORTS.

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

REMOVE PAVEMENT MARKINGS AND PLACE TEMPORARY PAVEMENT MARKING, REMOVABLE TAPE IF LANE CLOSURE IS TO BE IN PLACE FOR 4 OR MORE CONTINUOUS DAYS AND NIGHTS.

ON UNDIVIDED ROADWAYS, OMIT THE SIGNS SHOWN ON LEFT SIDE OF ROAD.

W20-1A, G20-1 AND G20-2A SIGNS ARE NOT REQUIRED IF THE LANE CLOSURE IS WITHIN A LARGER WORK ZONE WHERE THESE SIGNS ARE ALREADY PRESENT.

OMIT G20-1 SIGNS IF LENGTH OF WORK AREA IS 2 MILES OR LESS.

CONSIDER GEOMETRICS WHEN LOCATING SIGNS AND ARROWBOARDS SO THE APPROACHING DRIVER HAS A CLEAR VIEW OF THE ARROWBOARDS AND LANE CLOSURE DRUMS.

PLACE THE ARROWBOARD AS CLOSE AS POSSIBLE TO THE BEGINNING OF THE LANE CLOSURE TAPER, PREFERABLY ON THE SHOULDER OR TERRACE.

CHANNELIZING DEVICES PLACED ADJACENT TO WORK AREA SHALL BE PULLED BACK FROM THE TRAVEL LANE WHEN WORK IS NOT IN PROGRESS.

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

WARNING LIGHTS ARE NOT REQUIRED IF THE LANE CLOSURE IS A DAYTIME ONLY OPERATION.

TRAFFIC CONTROL SINGLE LANE CLOSURE, NON-FREEWAY/EXPRESSWAY

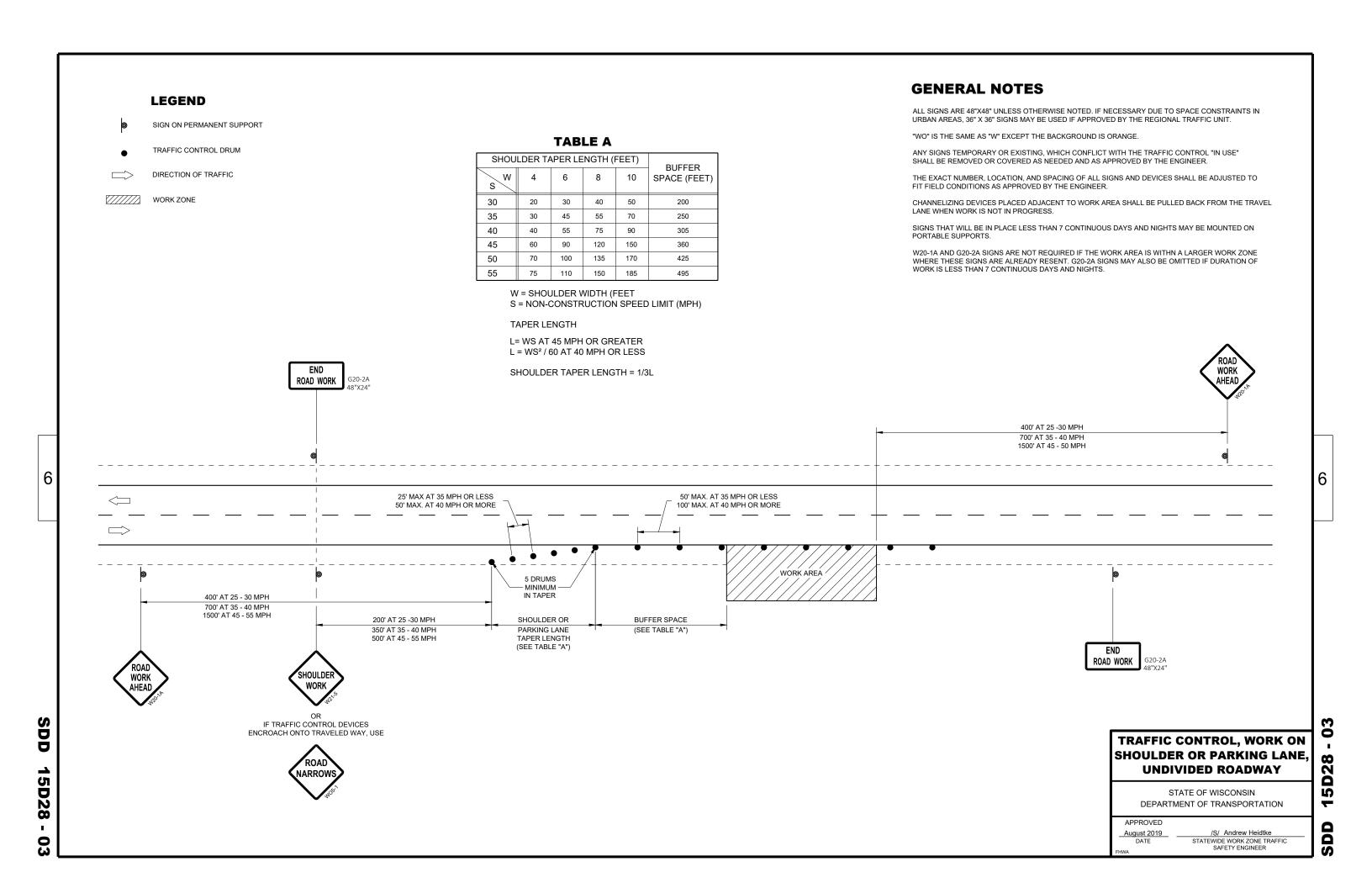
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

APPROVED June 2016

/S/ Peter Amakobe Atepe STATEWIDE WORK ZONE TRAFFIC SAFETY ENGINEER

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TUBULAR STEEL POSTS

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

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

URBAN AREA

POST MOUNTING DETAIL FOR TEMPORARY TRAFFIC CONTROL FIXED MESSAGE SIGNS

WOOD POST **EMBEDMENT DEPTH**

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

4" X 6" WOOD POST

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

SEE NOTE (3)

RURAL AREA

TEMPORARY TRAFFIC CONTROL SIGN MOUNTING

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

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- 11/2" DIAMETER HOLES

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

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

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

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

LAG SCREWS - 3/8" X 3"

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

SQUARE STEEL POSTS (2" x 2")

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

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

WASHERS (ALL POSTS) -

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

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

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

> ATTACHMENT OF SIGNS TO POSTS

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

APPROVED

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

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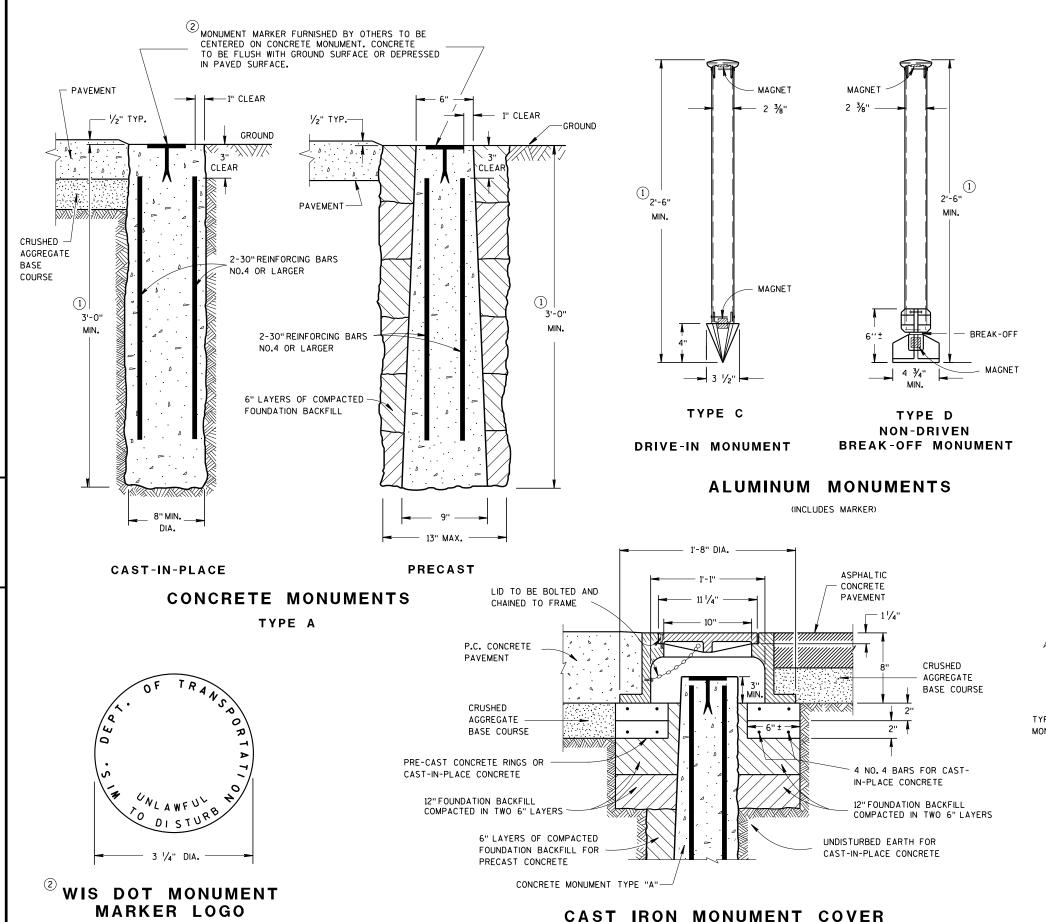
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38-2b



(APPROXIMATE WEIGHT 95 LBS)

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.

DETAILED DRAWINGS OF PROPOSED ALTERNATE DESIGNS FOR METAL MONUMENTS OR MONUMENT COVERS SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL.

PERMANENT MAGNETS SHALL BE INSERTED NEAR THE TOP AND BOTTOM OF ALL ALUMINUM MONUMENTS SO THE MONUMENT CAN EASILY BE DETECTED BY A METAL DETECTOR.

THE CAST IRON MONUMENT COVER SHALL BE A "NON-ROCKING" TYPE. ADJUSTMENT OF THE COVER TO GRADE MAY BE ACCOMPLISHED BY THE USE OF MORTAR AND BRICK, OR BY EITHER PRECAST OR CAST-IN-PLACE REINFORCED CONCRETE GRADE RINGS.

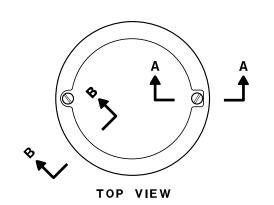
MONUMENTS SHALL BE LOCATED AND PLACED AT THE DIRECTION OF THE ENGINEER.

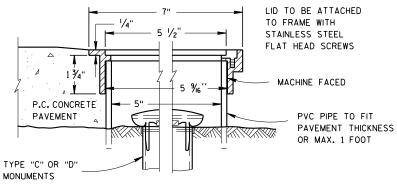
ALUMINUM MONUMENTS AND MONUMENT COVERS SHALL BE MADE FROM AN ALUMINUM AND MAGNESIUM ALLOY AS DETERMINED BY THE MANUFACTURER.

THE MONUMENT COVERS DETAILED ON THIS DRAWING ARE NOT EQUAL ALTERNATES. MONUMENT COVERS SHALL BE CAST IRON UNLESS ALUMINUM IS SPECIFIED ELSEWHERE IN THE CONTRACT.

MONUMENT SHALL BE CAST-IN-PLACE CONCRETE UNLESS PRECAST CONCRETE OR ALUMINUM MONUMENTS ARE SPECIFIED IN THE CONTRACT OR PERMITTED BY THE ENGINEER

- (1) MINIMUM LENGTH SHALL BE 4'-0" FOR MONUMENTS INSTALLED IN PAVED AREAS.
- (2) AN OFFICIAL COUNTY MONUMENT MARKER SUPPLIED BY A COUNTY MAY BE REQUIRED FOR SOME SECTION CORNERS AND WITNESS MONUMENTS INSTEAD OF THIS WIS DOT MARKER.





SECTION A-A

ALUMINUM MONUMENT COVER

(APPROXIMATE WEIGHT 2 LBS) (FOR CONCRETE PAVEMENT ONLY)

SECTION B-B

LANDMARK REFERENCE **MONUMENTS AND COVERS**

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

APPROVED

March 2018 DATE FHWA

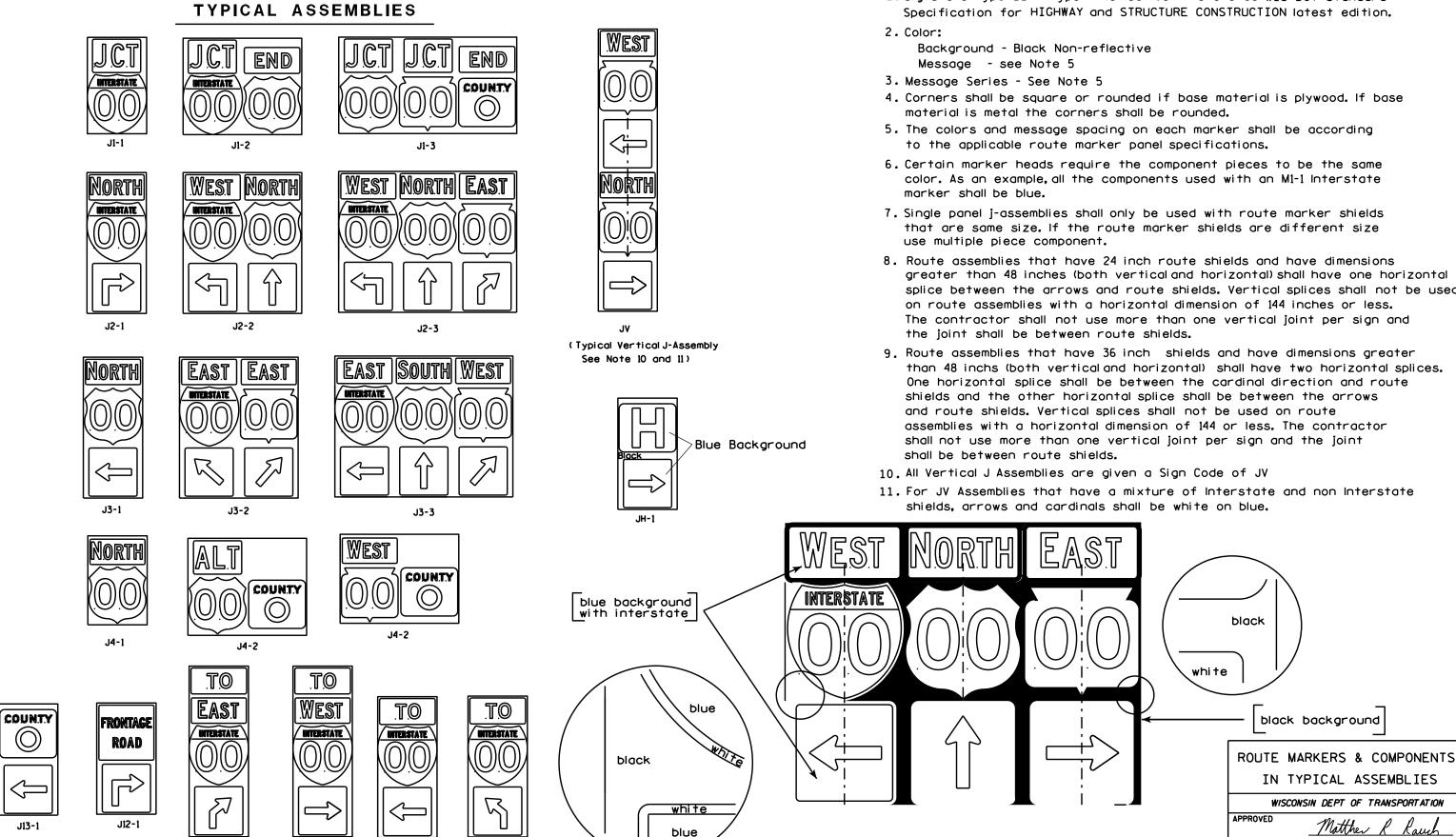
/S/ Raymond A. Kumapayi CHIEF SURVEYING AND MAPPING ENGINEER

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FOR TYPES "A", "C", & "D"

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:

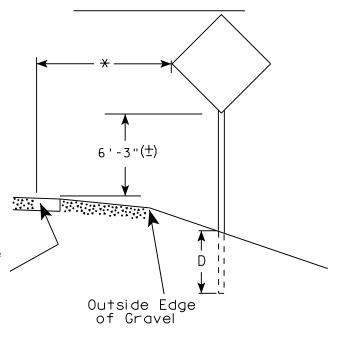
urban area

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

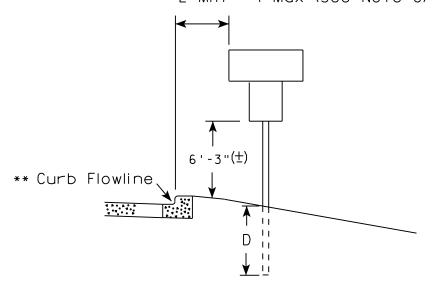
** Curb Flowline

D | White Edgeline Location

RURAL AREA (See Note 2)



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



White Edgeline
Location

Outside Edge
of Gravel

PLOT DATE: 21-AUG-2017 16:04

** 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.

POST EMBEDMENT DEPTH

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

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

GENERAL NOTES

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

TYPICAL INSTALLATION
OF PERMANENT TYPE II
SIGNS ON SINGLE POSTS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

Matther R Rauch

For State Traffic Engineer

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

SHEET NO:

PROJECT NO:

HWY:

COUNTY:

NTY:

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

PLOT SCALE : 100.601251:1.000000



NOTES: 1. ALL MATERIAL TO BE APPROVED

BY ENGINEER PRIOR TO INSTALLATION

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



ELEVATION VIEW

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



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

HWY:



PLAN VIEW

COUNTY:

FOR NEW CONCRETE/ASPHALT INSTALLATIONS

SIGN POST BOX-OUTS A4-3B

WISCONSIN DEPT OF TRANSPORTATION

For State Traffic Engineer

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

SHEET NO:

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

PROJECT NO:

PLOT DATE: 27-JAN-2014 09:48

PLOT NAME :

PLOT BY: mscsja

PLOT SCALE: 13.659812:1.000000

APPROVED

WISDOT/CADDS SHEET 42

GENERAL NOTES

- 1. For 3 or 4 post installations, individual post spacing shall be greater than 3'-6".
- 2. See tables below for required number of posts.
- 3. For expressways and freeways, mounting height is 7'-3'' (±) or 6'-3'' (±) depending upon existence of sub-sign.
- 4. The (±) tolerance for mounting height is 3 inches.
- 5. J-Assemblies are considered to be one sign for mounting height.
- 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'' (\pm) 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.

POST EMBEDMENT DEPTH

D
(Min)
4'
5'

WISCONSIN DEPT OF TRANSPORTATION APPROVED For State Traffic Engineer DATE 8/21/17 PLATE NO. <u>A4-4.15</u>





	SIGN SHAPE OTHER THAN DIAMOND (TWO POSTS REQUIRED)		
	L	E	
***	Greater than 48" Less than 60"	12"	
	60" to 108"	L/5	

HWY:

SIGN SHAPE OTHER THAN DIAMOND (THREE POSTS REQUIRED)		
L	E	
Greater than 108" to 144"	12''	

COUNTY:

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

PROJECT NO:

PLOT DATE: 21-AUG-2017 15:54

PLOT SCALE: 108.188297:1.000000

WISDOT/CADDS SHEET 42

OF TYPE II SIGNS ON MULTIPLE POSTS

TYPICAL INSTALLATION

SHEET NO:

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



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

ATTACHMENT OF SIGNS
TO POSTS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

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

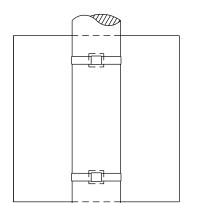
DATE 2/05/15

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

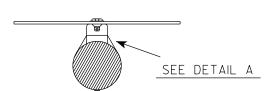
For State Traffic Engineer

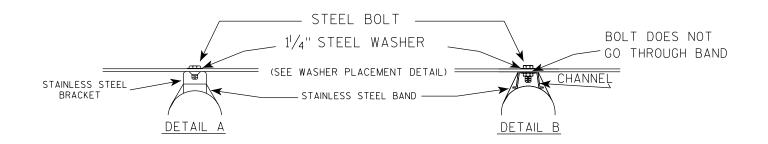


BANDING

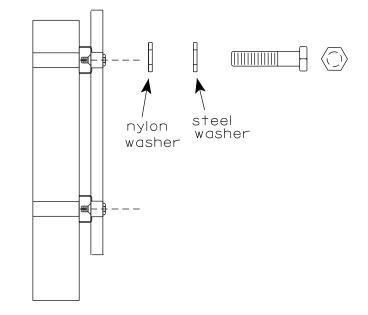


SINGLE SIGN





WASHER PLACEMENT



HWY:

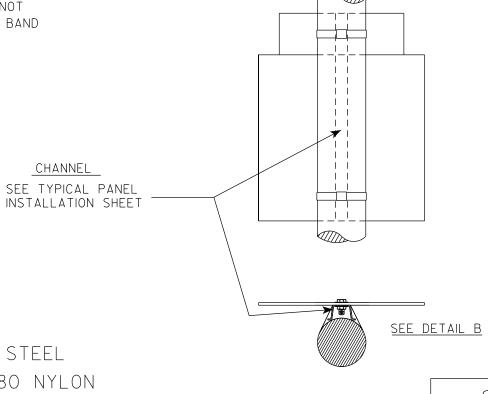
WASHERS (ALL POSTS) -

1-1/4" O.D. X³/₈" I.D. X¹/₁₆" STEEL 1-1/4" O.D. $\times \frac{3}{8}$ " I.D. \times .080 NYLON FOR ALL TYPE H SIGNS

GENERAL NOTES

- 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.
- 4. ALL SIGN MOUNTING BOLTS AND WASHERS SHALL BE EITHER:
 - a. Hot dip or mechanically galvanized in accordance with ASTM Designation: A 153, Class D
 - b. Electro-galvanized in accordance with ASTM designation: B 633, Type III, SC 3

"J" ASSEMBLY



STANDARD SIGN SIGN BANDING DETAILS

WISCONSIN DEPT OF TRANSPORTATION

SHEET NO:

State Traffic Engineer

Ε

APPROVED

DATE 6/10/19 PLATE NO. A5-9.4

COUNTY:

PLOT DATE: 10-JUN 2019 4:10

PLOT NAME :

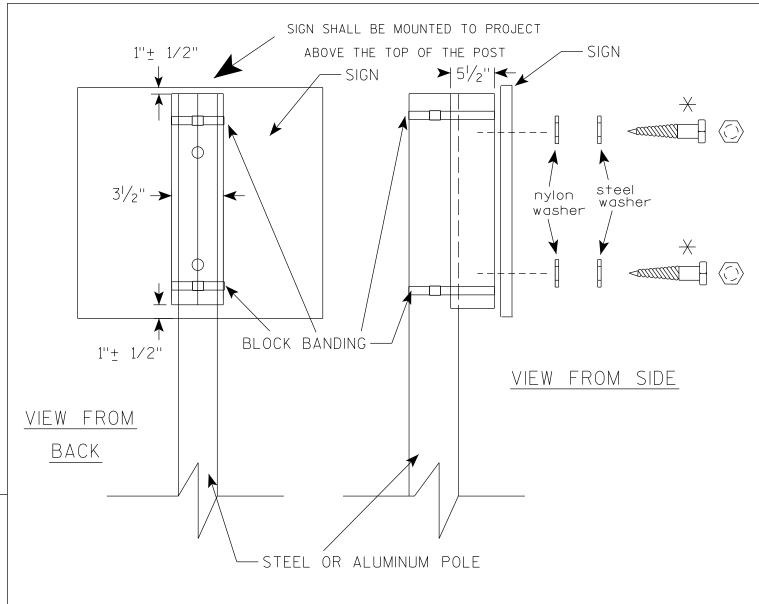
PLOT SCALE: \$\$.....plotscale.....\$\$ WISDOT/CADDS SHEET 42

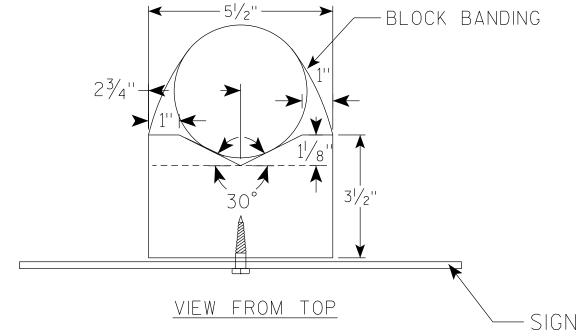
FILE NAME : C:\CAEfiles\Projects\tr_stdplate\A59.dgn

PROJECT NO:

PLOT BY: mscj9h

CHANNEL





GENERAL NOTES

- 1. WOOD 4"X6" POST MATERIAL SHALL CONFORM TO 507.2.2 OF THE WISDOT STANDARD SPECIFICATIONS
- 2. BLOCK BANDING AND CLIPS SHALL BE STAINLESS STEEL, $\frac{3}{4}$ " 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
 - b. 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 $1\frac{1}{4}$ " O.D. X $\frac{3}{8}$ " I.D. X $\frac{1}{16}$ "
- 8. NYLON WASHERS SHALL BE $1^{1}/_{4}$ " O.D. X $\frac{3}{8}$ " I.D. X .080 FOR TYPE H OR TYPE F FACE SIGN

 \rightarrow LAG BOLTS SHALL BE $\frac{3}{8}$ " X $2\frac{1}{2}$ "

BLOCK BANDING DETAIL (V-BLOCK OPTION)

WISCONSIN DEPT OF TRANSPORTATION

| APPROVED

For State Traffic Engineer

SHEET NO:

Matthew R

DATE 6/10/19

PLATE NO. _A5-10.2

PROJECT NO:
FILE NAME: C:\CAEfiles\Projects\tr_stdplate\A510.dgn

PLOT DATE: 10-JUN 2019 4:15

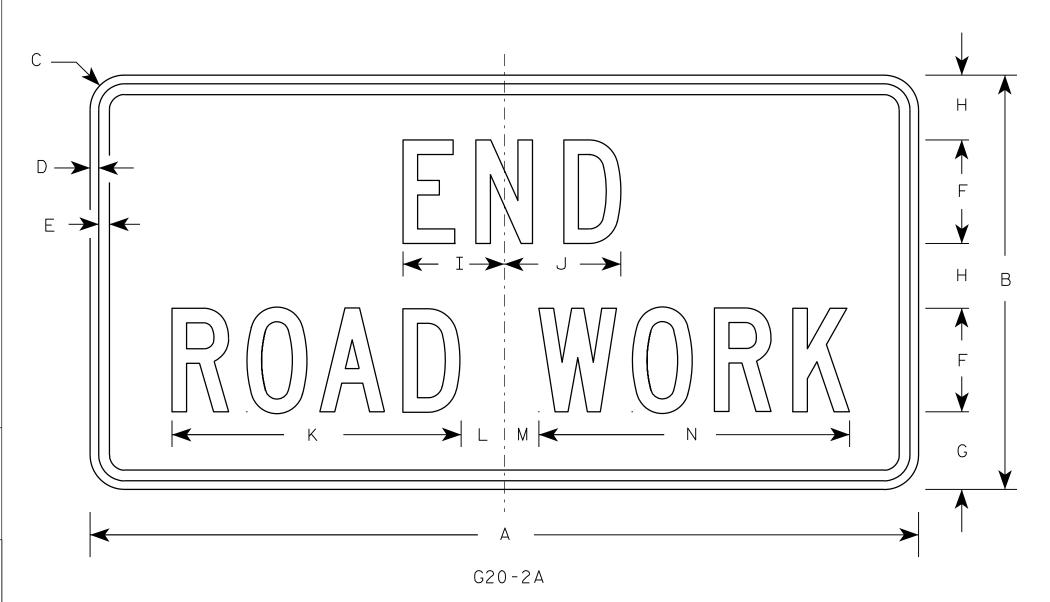
PLOT BY: mscj9h

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

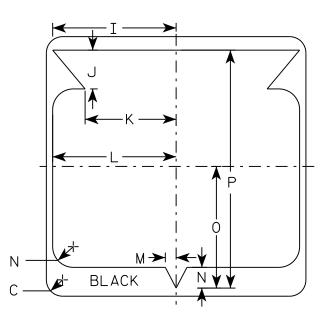
5.561773:1.000000 WISDOT/CADDS SHEET 42

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

Background - White Message - Black

- 3. Message Series D except 3 number signs 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.

	G F A H H
A A	
M1-6	1



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.
1																											
2	24		1 1/2			12	5 1/2	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											4.0
3	36		2 1/4			18	8 3/4	9 1/4	15	5	12 5/8	17 1/8	1 1/2	2 1/8	16 1/8	33											9.0
4	36		2 1/4			18	8 3/4	9 1/4	15	5	12 5/8	17 1/8	1 1/2	2 1/8	16 1/8	33											9.0
5	36		2 1/4			18	8 3/4	9 1/4	15 ¾	5	12 5/8	17 1/8	1 1/2	2 1/8	16 1/8	33											9.0

COUNTY:

STATE ROUTE MARKER M1-6 FOR ASSEMBLIES

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

for State Traffic Engineer

DATE 3/16/18

PLATE NO. <u>M1-6.10</u>

SHEET NO:

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\M16.DGN

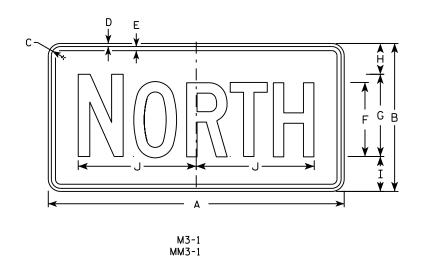
HWY:

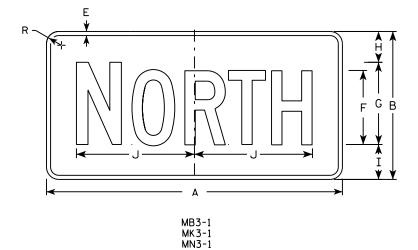
PROJECT NO:

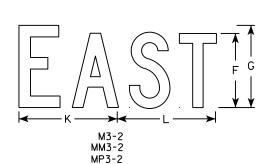
PLOT DATE: 16-MAR-2018 14:11

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

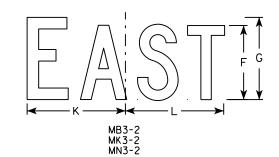
PLOT SCALE : 6.655277:1.000000

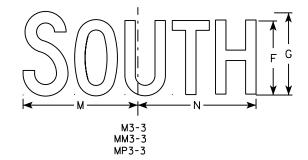


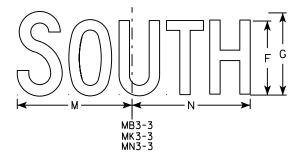


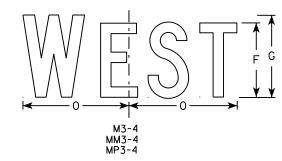


MP3-1

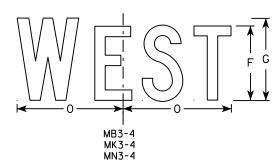








HWY:



NOTES

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

Background - See note 5 Message - See note 5

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

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

MB3-1 thru MB3-4 Background - Blue

Message - White

MK3-1 thru MK3-4 Background - Green

Message - White

MM3-1 thru MM3-4 Background - White

Message - Green

MN3-1 thru MN3-4 Background - Brown

Message - White

MP3-1 thru MP3-4 Background - White

Message - Blue

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

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

COUNTY:

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

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

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

Ε

SHEET NO:

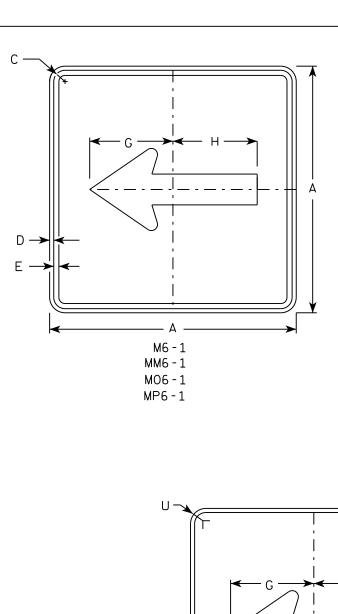
FILE NAME · C·\CAFfiles\Projects\tr stdolote\M31 DCN

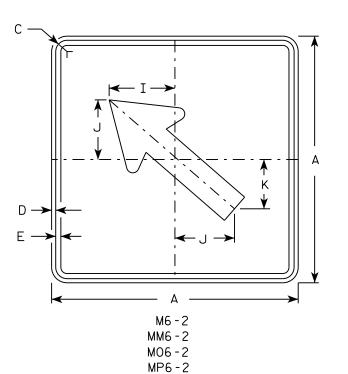
PROJECT NO:

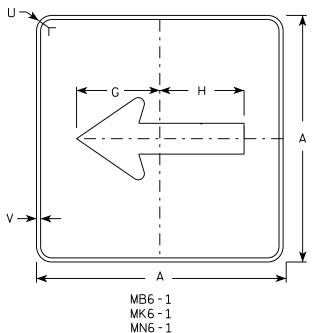
PLOT DATE . 01-DEC-2015 17:54

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

PLOT SCALE . 11 675051.1 000000

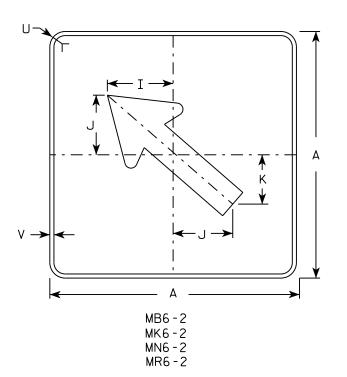






MR6-1

HWY:



NOTES

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

Background - See note 4 Message - See note 4

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

Message - Black

MB6-1 and MB6-2 Background - Blue

Message - White

MK6-1 and MK6-2 Background - Green

Message - White

MM6-1 and MM6-2 Background - White

Message - Green

MN6-1 and MN6-2 Background - Brown

Message - White

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

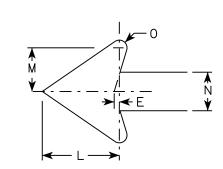
Message - Black

MP6-1 and MP6-2 Background - White

Message - Blue

MR6-1 and MR6-2 Background - Brown

Message - Yellow



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

COUNTY:

STANDARD SIGN M6-1 & M6-2 SERIES

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

Matthew & Rawl For State Traffic Engineer

Ε

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

SHEET NO:

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

PROJECT NO:

PLOT DATE . 01-DEC-2015 17:57

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

PLOT SCALE . 11 675051.1 000000



- 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

*								— А — ;											A	
									H			- G -							F	A
		E						 	-1			_//								*
D	E	F	G	н	I	J	К	L	М	N	0	Р	0	R	S	Т	U	V	W	Х

SIZE	Α	В	С	D	E	F	G	Н	I	J	K	L	М	N	0	Р	0	R	S	T	U	٧	W	Х	Y	Z	Area sq. ft.
1	30				5/8	10	12 1/2	45°		12 3/4																	5.18
2S	30				5/8	10	12 1/2	45°		12 3/4																	5.18
2M	36				3/4	12	15	45°		15 3/8																	7.46
3	36				3/4	12	15	45°		15 3/8																	7.46
4	48				1	16	20	45°		20 1/2																	13.25
5	48				1	16	20	45°		20 1/2																	13.25
6	18				3/8	6	7 3/4	45°		7 3/4																	1.86
7	12				1/4	4	5	45°		5 1/8																	0.78

COUNTY:

STANDARD SIGN R1-1

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

For State Traffic Engineer

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

PLATE NO. ____R1-1.13

SHEET NO:

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

HWY:

PROJECT NO:

PLOT DATE: 22-AUG-2017 07:19

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

PLOT SCALE: 4.427909:1.000000

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

Background - White Message - See note 5

3. Message Series - C

PLOT NAME :

- 4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
- 5. The border strip and word message are reflectorized red.

A	
	G
	\\ \ F \\ \ \ \
E	 B
D D	
R1-2	

SIZE	Α	В	С	D	E	F	G	н	I	J	K	L	М	N	0	Р	0	R	S	Т	U	V	W	Х	Y	Z	Area sq. ft.
1	30	26	1 1/2	5/8	4	2 1/2	6 3/8	7 ⁄8	4	3 %																	2.71
25	36	31	2	3/4	5	3	7 3/4	1 1/4	4 3/4	4 3/8																	3.88
2M	48	42	3	1	6	4	9 3/4	2	6 1/4	5 %																	7.00
3	48	42	3	1	6	4	9 3/4	2	6 1/4	5 %																	7.00
4	48	42	3	1	6	4	9 3/4	2	6 1/4	5 %																	7.00
5	60	52	3	1 1/2	8	5	13	2 1/2	7 1/8	7 1/4																	10.83
6																											
7	18	15 1/2	1	3/8	2 1/2	1 1/2	3 1/8	5/8	2 3/8	2 1/4																	0.97

COUNTY:

STANDARD SIGN R1-2

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

Matthew & Rauch

 f_{or} State Traffic Engineer

3/14 PLATE NO. R1-2.12

DATE 10/13/14 PLA

SHEET NO:

311221

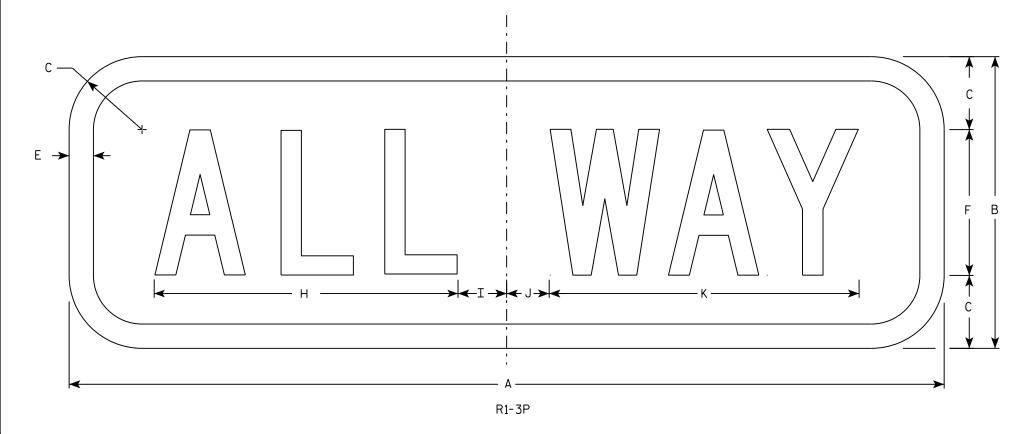
PROJECT NO:

HWY:

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

Background - Red Message - White

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



SIZE	Α	В	С	D	E	F	G	Н	I	J	К	L	М	N	0	Р	0	R	S	T	U	٧	W	Х	Y	Z	Area sq. ft.
1	18	6	1 1/2		1/2	3		6 1/4	1 1/4	7/8	6 3/8																0.75
25	18	6	1 1/2		1/2	3		6 1/4	1 1/4	7/8	6 3/8																1.5
2M	24	9	1 1/2		1/2	5		9 1/4	1 1/4	3/4	9 3/4																1.5
3	24	9	1 1/2		1/2	5		9 1/4	1 1/4	3/4	9 3/4																1.5
4	30	12	2 1/4		5/8	6		11	2 1/4	1 1/2	11 3/4																2.5
5	30	12	2 1/4		5/8	6		11	2 1/4	1 1/2	11 3/4								·		·						2.5

COUNTY:

STANDARD SIGN R1-3P

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

DATE 11/29/16

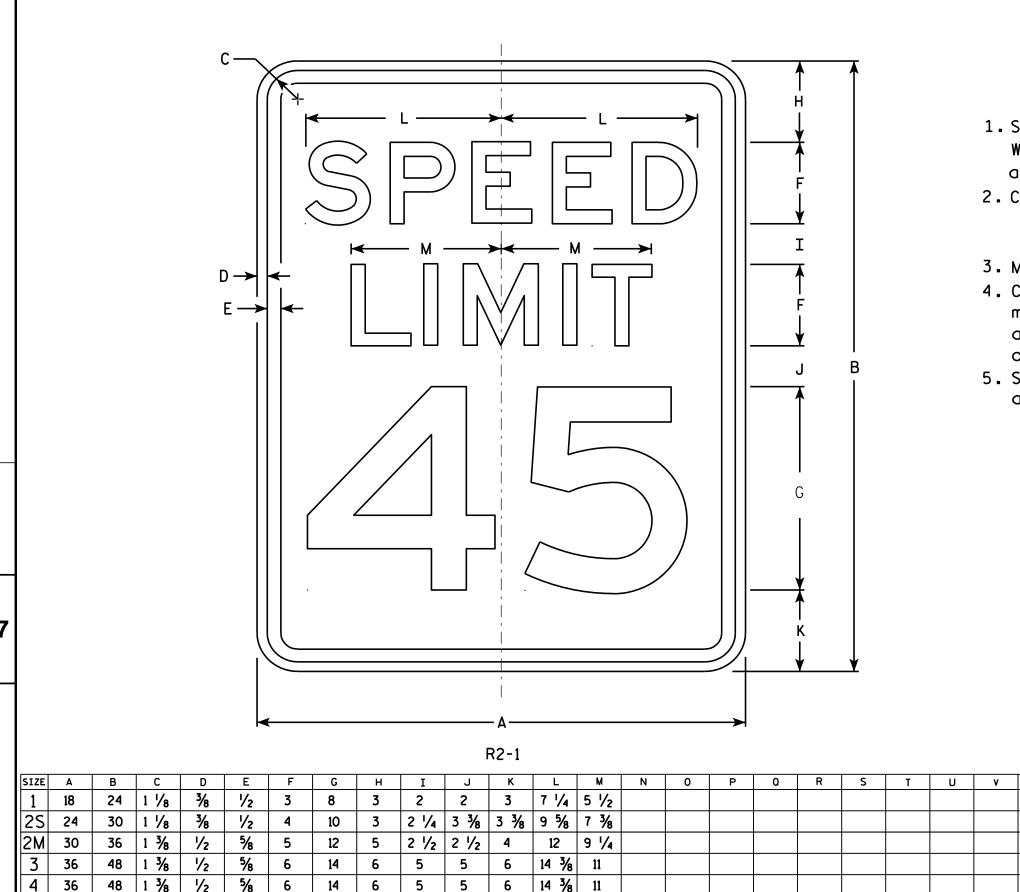
PLATE NO. R1-3P.3

SHEET NO:

HWY:

PROJECT NO:

 $f_{\it or}$ State Traffic Engineer



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

COUNTY:

20

HWY:

6

NOTES

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

Background - White Message - Black

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

3.0

5.0

7.5

12.0

12.0

20.0

STANDARD SIGN R2-1

WISCONSIN DEPT OF TRANSPORTATION APPROVED

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

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

SHEET NO:

2 1/4

60

5

48

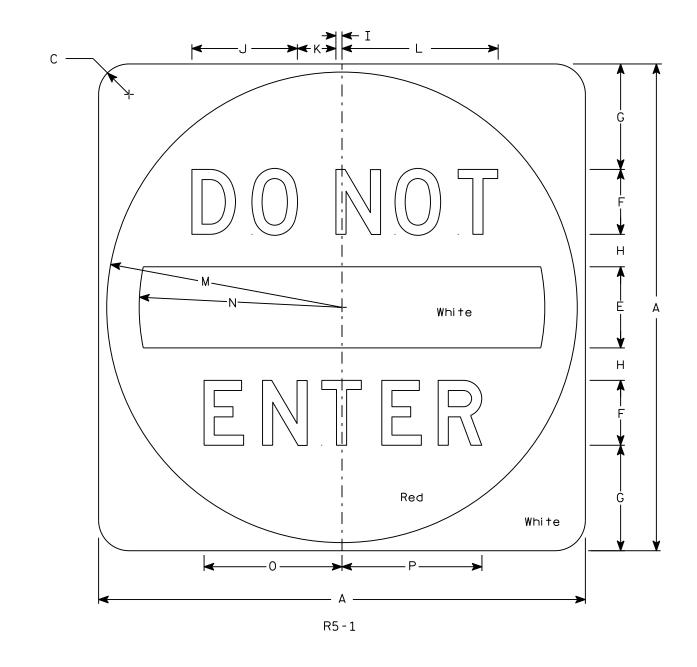
PROJECT NO:

PLOT NAME :

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

Background - See detail Message - White

3. Message Series - D



SIZE	Α	В	С	D	E	F	G	Н	I	J	К	L	М	N	0	Р	Q	R	S	Т	U	٧	W	Х	Υ	Z	Area sq. ft.
1																											
25	30		1 1/8		5	4	6 1/2	2	3/8	6 1/2	2 3/8	9 %	14 1/2	12 1/2	8 1/2	8 %											6.25
2M	36		2 1/4		6	5	7 1/2	2 1/2	1/2	8 1/8	3	12 1/8	17 1/2	15	10 %	10 3/4											9.0
3	36		2 1/4		6	5	7 1/2	2 1/2	1/2	8 1/8	3	12 1/8	17 1/2	15	10 %	10 3/4											9.0
4	36		2 1/4		6	5	7 1/2	2 1/2	1/2	8 1/8	3	12 1/8	17 1/2	15	10 %	10 ¾											9.0
5	48		3		8	6	11	3	5/8	9 3/4	3 5/8	14 1/2	23 1/2	20	12 3/4	12 1/8											16.0

COUNTY:

STANDARD SIGN R5-1

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

Matther & Rauch

DATE <u>3/15/18</u>

8 PLATE NO. R5-1.16
SHEET NO:

PLOT SCALE : 5.914594:1.000000

HWY:

PROJECT NO:

→ H | H |←
BY ORDER OF FOND DU LAC COUNTY

R12-53

<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 See Note 5
- 4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
- 5. Lines 1, 2 & 4 are Series E. Line 3 is Series D. Line 5 is Series C.
- 6. Line 5 of the sign shall vary with the name of the maintaining authority.

SIZE	Α	В	С	D	Е	F	G	Н	I	7	K	L	М	N	0	P	0	R	S	Т	U	٧	W	X	Y	Z	Area sq. ft.
1																											
25	24	30	1 1/8	3/8	1/2	3	4	2 1/2	2 1/4	2	6	1 1/2	3/4	9 %	6 %	6 3/4		8 ¾	8 %								5.0
2M	24	30	1 1/8	3/8	1/2	3	4	2 1/2	2 1/4	2	6	1 1/2	3/4	9 %	6 %	6 3/4		8 ¾	8 %								5.0
3																											
4																											
5																											

STANDARD SIGN R12-53

WISCONSIN DEPT OF TRANSPORTATION

APPROVED /// // // //

For State Traffic Engineer

DATE 4/1/11 PLATE NO. R12-53.

SHEET NO:

PROJECT NO: HWY: COUNTY:

PLOT SCALE: 5.959043:1.000000

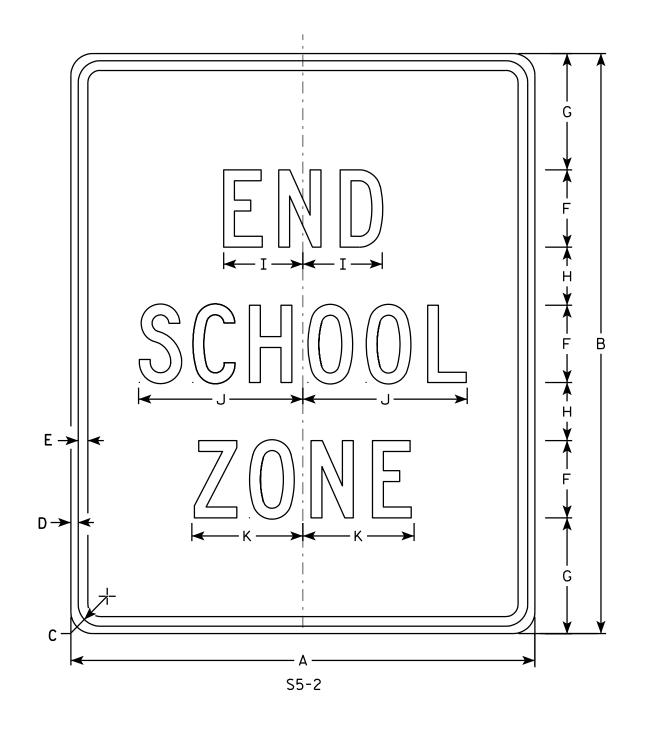
WISDOT/CADDS SHEET 42

FILE NAME : C:\Users\PROJECTS\tr_stdplate\R1253.DGN

PLOT DATE: 01-APR-2011 13:18

PLOT BY: mscj9h

PLOT NAME :



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

Background - White Message - Black

- 3. Message Series 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.

3/8 1/2 4 1/8 8 1/2 5 3/4 24 30 | 1 1/8 5.0 3 36 42 | 1 1 1 1 1 1 1 1 1 1 1 1 1 5/8 3/4 6 1/8 12 5/8 8 5/8 10.5 4 5

COUNTY:

STANDARD SIGN S5-2

WISCONSIN DEPT OF TRANSPORTATION

APPROVED For State Traffic Engineer

DATE 3/8/11

SHEET NO:

FILE NAME : C:\Users\PROJECTS\tr_stdplate\S52.DGN

PROJECT NO:

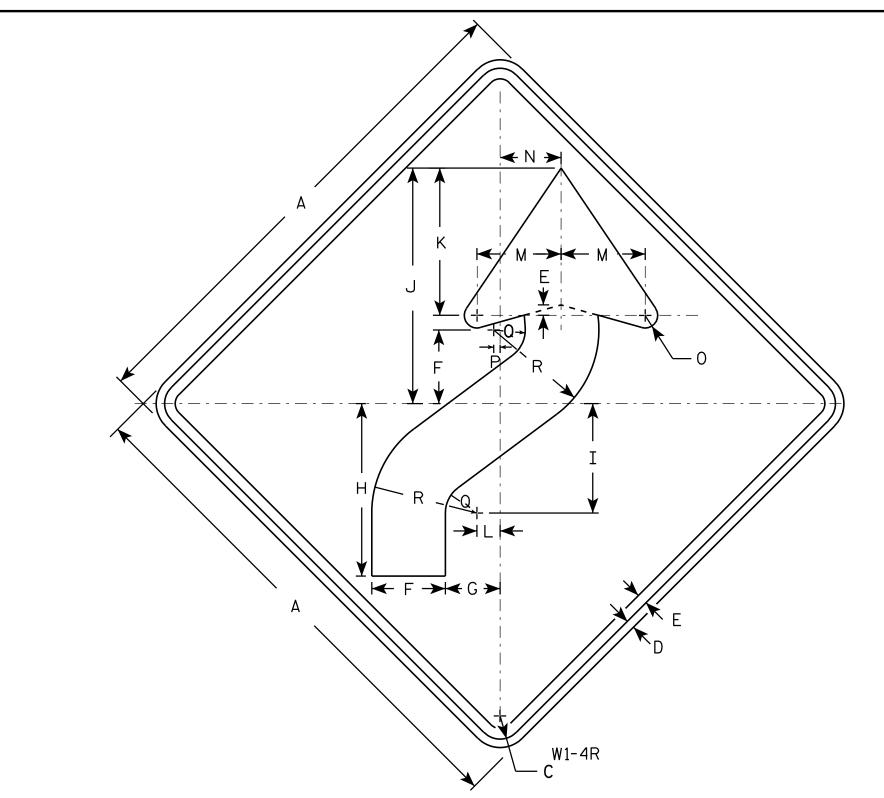
HWY:

PLOT DATE: 08-MAR-2011 08:54

PLOT NAME :

PLOT BY: mscj9h

PLOT SCALE: 4.965868:1.000000



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

Background - Yellow Message - Black

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

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

STANDARD SIGN W1-4

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

Matthe R Raw
For State Traffic Engineer

SHEET NO:

DATE 5/17/12

PLATE NO. W1-4.11

HWY:

COUNTY:

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

PLOT NAME :

PLOT SCALE: 5.706180:1.000000

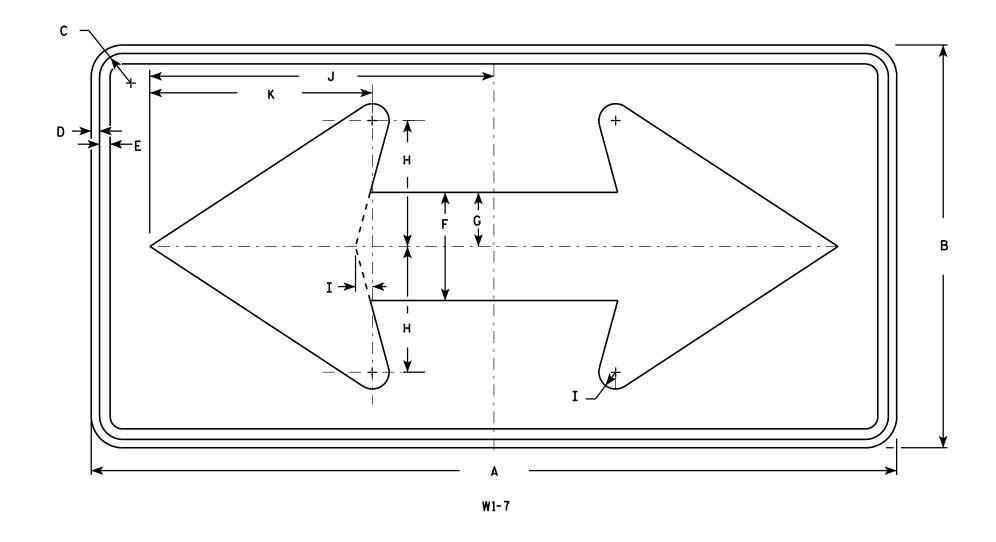
WISDOT/CADDS SHEET 42

PROJECT NO:

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

Background - Yellow Message - Black

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



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

COUNTY:

STANDARD SIGN W1-7

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

Matthew R

For State Traffic Engineer

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

SHEET NO:

FILE NAME : C:\Users\PROJECTS\tr_stdplate\W17.DGN

PROJECT NO:

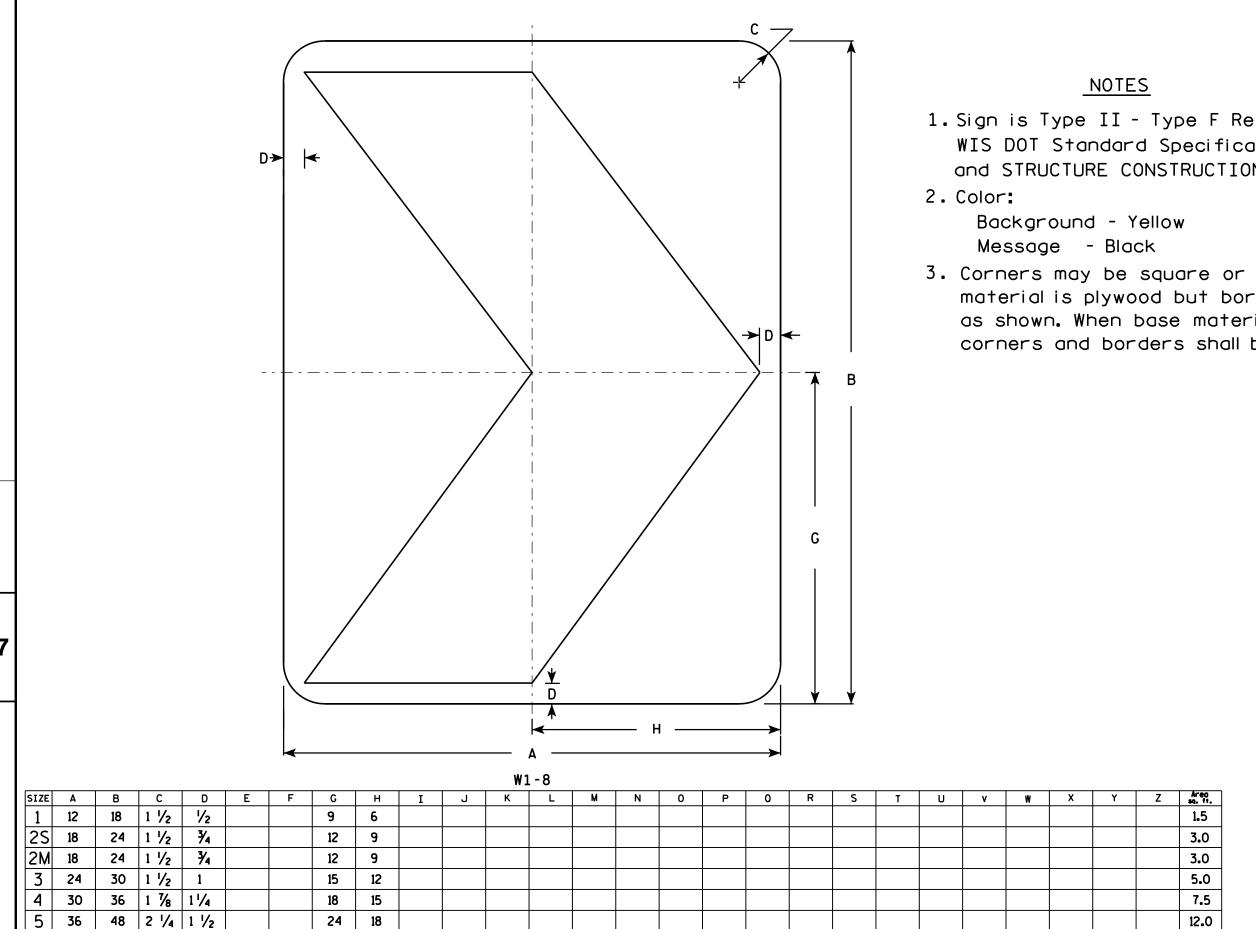
HWY:

PLOT DATE: 07-JUN-2010 12:35

PLOT BY : ditjph

PLOT NAME :

PLOT SCALE: 5.720679:1.000000



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

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

> STANDARD SIGN W1 - 8

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

For State Traffic Engineer PLATE NO. W1-8.6

DATE 6/7/10

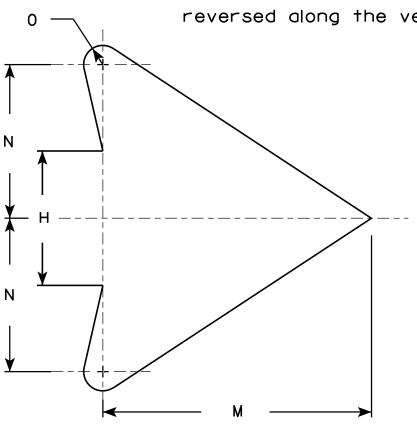
SHEET NO:

PROJECT NO:

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

Background - Yellow Message - Black

- 3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
- 4. W1-10L is the same as W1-10R except the arrow is reversed along the vertical centerline.



ARROW	DET	AIL

SIZE	Δ	В	С	D	E	F	G	Н	I	7	K	L	М	N	0	Р	0	R	S	T	U	v	W	X	Y	Z	Areo sq. ft.
1	24		1 1/8	3/8	1/2		8 1/4	3 1/2	4 1/2	1 3/4	2 3/8	7 1/4	7	4	1/2	2 %	6 %	2 1/8	4 1/2	45°							4.0
25	30		1 3/8	1/2	5/8		10 1/4	4 3/8	5 %	2 1/4	3	9 1/8	8 ¾	5	5/8	3 %	8	2 %	5 ¾	45°							6.25
2M	36		1 %	5/8	3/4		12 3/8	5 1/4	6 ¾	2 %	3 1/2	10 1/8	10 1/2	6	₹4	4	10	3 1/4	6 %	45°							9.0
3	36		1 %	5/8	3/4		12 3/8	5 1/4	6 ¾	2 %	3 1/2	10 1/8	10 1/2	6	3/4	4	10	3 1/4	6 1/8	45 °							9.0
4	36		1 %	5/8	3/4		12 3/8	5 1/4	6 ¾	2 %	3 1/2	10 1/8	10 1/2	6	3/4	4	10	3 1/4	6 1/8	45°							9.0
5	48		2 1/4	₹4	1		16 1/2	7	9	3 1/2	4 %	14 1/2	14	8	1	5 3/8	13 1/4	4 1/4	9 1/8	45°							16.0

COUNTY:

W1 - 10

STANDARD SIGN

WISCONSIN DEPT OF TRANSPORTATION

For State Traffic Engineer DATE <u>5/17/12</u> PLATE NO. W1-10.3

SHEET NO:

FILE NAME : C:\CAEFiles\Projects\tr_stdplate\W110.DGN

PROJECT NO:

.|← H →|← P→

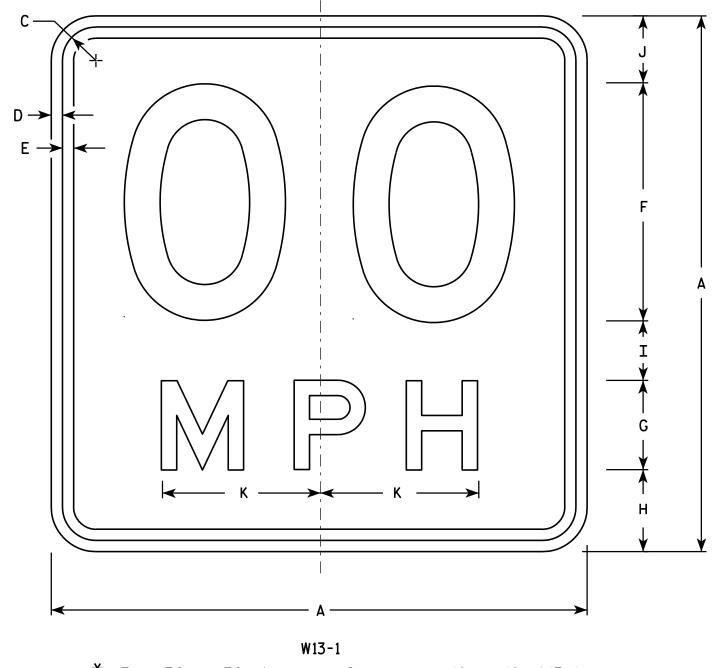
HWY:

W1-10R

PLOT DATE: 17-MAY-2012 10:14

PLOT BY: mscsja

PLOT SCALE: 6.251989:1.000000



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

Background - Yellow Message - Black

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

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

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

STANDARD SIGN W13-1

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

Matthew & Ram

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

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

SHEET NO:

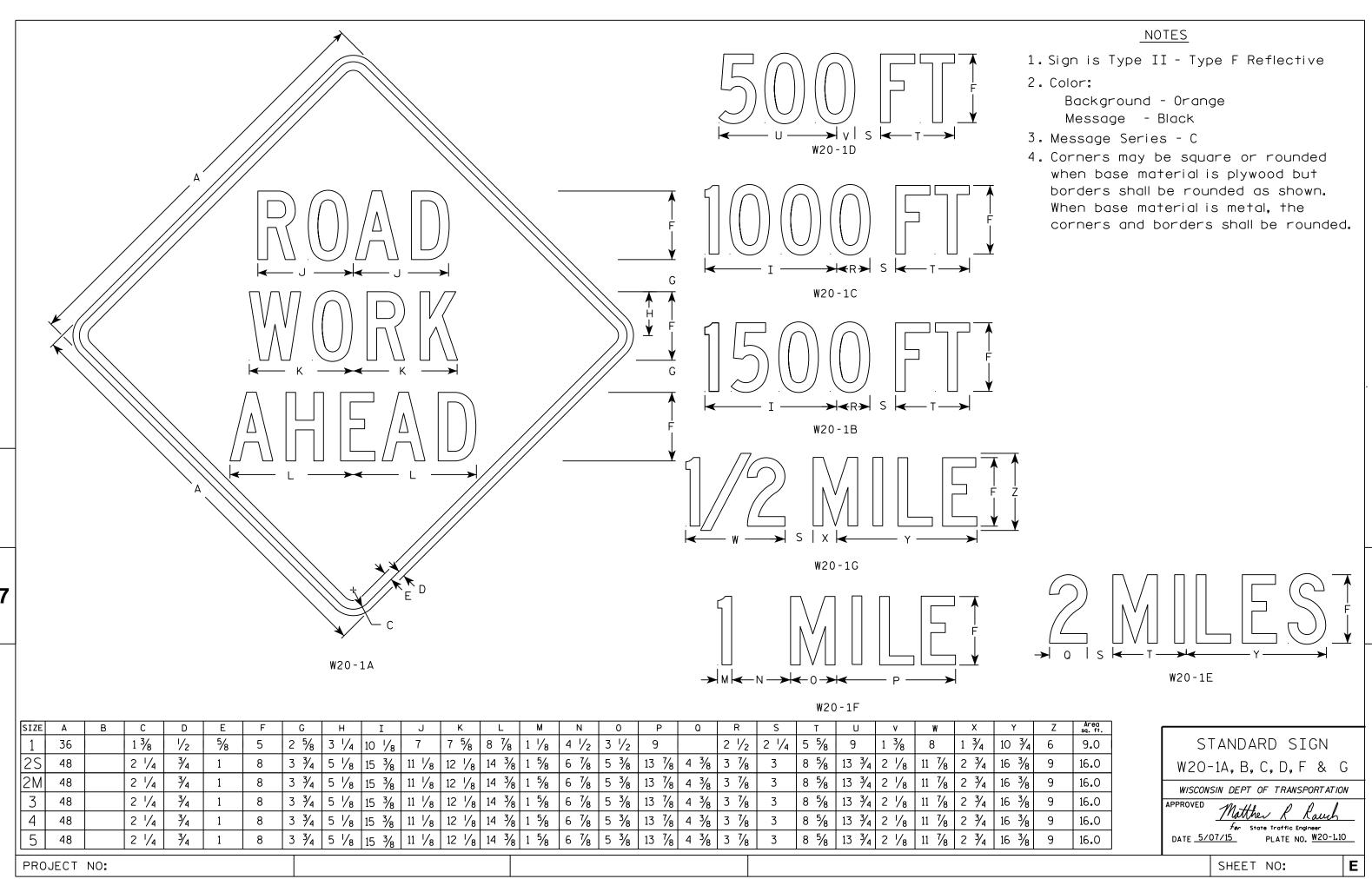
FILE NAME : C:\CAEFiles\Projects\tr_stdplate\W131.DGN

PLOT DATE: 31-MAY-2012 10:57

PLOT NAME :

PLOT BY: mscsja

PLOT SCALE: 3.225232:1.000000



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

PLOT DATE . 01-DEC-2015 18.24

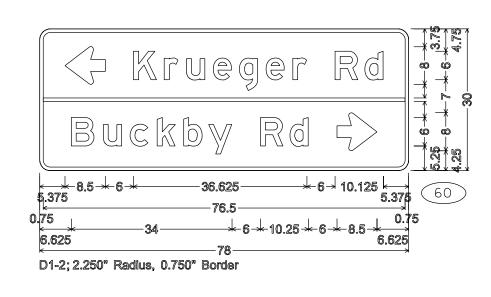
PIOT RY * \$\$ plotuser \$\$

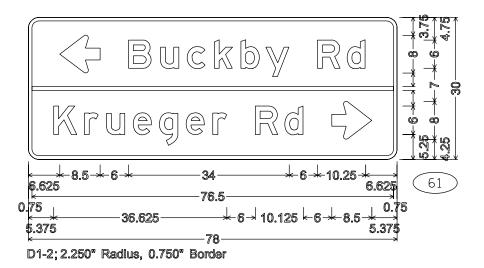
- 1. All Signs Type II Type H Reflective
- 2. Color:

Background - Green

Message - White

3. Message Series - E





FILE NAME: C:\CAEfiles\Projects\tr_d2_2641ad18.dgn

PROJECT NO:3190-08-70 HWY:STH 120 COUNTY:WALWORTH PERMANENT SIGNING SHEET NO:

STATE PROJECT NUMBER 3190-08-70

INLET REPAIR END OF SLAB AND PAVEMENT REPLACEMENT STA 208+85.32 END EPOXY OVERLAY 44' ABUTMENT

€ STH 120

– BEGIN EPOXY OVERLAY

END OF SLAB STA 208+27.78

9 BACK

10

GENERAL NOTES

DRAWINGS SHALL NOT BE SCALED.

DIMENSIONS SHOWN ARE BASED ON THE ORIGINAL STRUCTURE PLANS.

DESIGN DATA

LIVELOAD:
DESIGN RATING: HS-20
INVENTORY RATING: HS-22
OPERATIONAL RATING: HS-38

<u>ULTIMATE DESIGN STRESSES</u>

CONCRETE MASONRY SUBSTRUCTURE f'c: = 4000 PSI

TRAFFIC DATA ADT (2015) = 6200 ADT (2035) = 7400 DESIGN SPEED = 55 MPH

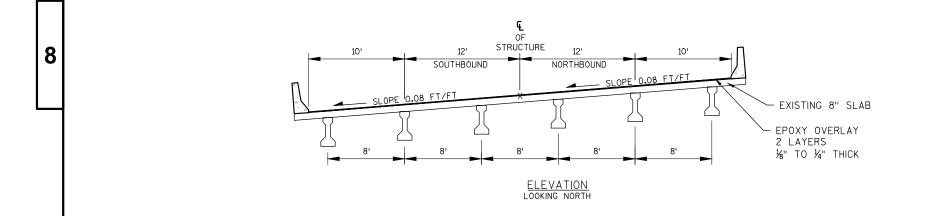
LIST OF DRAWINGS

1. EPOXY OVERLAY

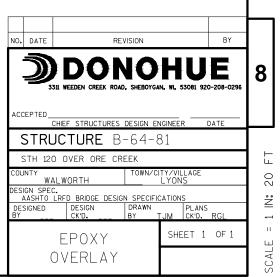
TOTAL ESTIMATED QUANTITES

509.5100.S

POLYMER OVERLAY 288 SY



PLAN
SINGLE SPAN - 36" PRESTRESSED GIRDERS



STH 120 STA 158+80 - 181+96

<u>Station</u>	Cut Area (Sq.ft.)	Cut Volume (Cu.yd.)	Reusable Volume (Cu.yd.)	Fill Area (Sq.ft.)	Fill Volume (Cu.yd.)	Cum. Cut Vol. (Cu.yd.)	Cum. Reusable Vol. (Cu.yd.)	Cum. Fill Vol. (Cu.yd.)	Cum. Net Vol. (Cu.yd.)
158+79.814	37.72	0	0	0	0	0	0		
159+00.000	38.02	28.31	28.31	0	0	28.31	28.31	0	28.31
159+30.682	46.36	47.94	47.94	0	0	76.26	76.26		76.26
159+48.111	45.06	29.51	29.51	0	0	105.76	105.76		105.76
160+00.000	50.09	91.43	91.43	0	0	197.19	197.19	0	197.19
160+05.707	50.09	10.59	10.59	0	0	207.77	207.77	0	207.77
160+20.000	50.09	26.51	26.51	0	0	234.29	234.29	0	234.29
160+50.000	48.24	54.62	54.62	0	0	288.91	288.91	0	288.91
161+00.000	50.08	91.04	91.04	0	0	379.95	379.95	0	379.95
161+50.000	58.27	100.33	100.33	0	0	480.28	480.28	0	480.28
162+00.000	56.63	106.4	106.4	0	0	586.68	586.68	0	586.68
162+50.000	44.2	93.36	93.36	0	0	680.04	680.04	0	680.04
163+00.000	45.21	82.79	82.79	0	0	762.83	762.83	0	762.83
163+50.000	40.25	79.13	79.13	0	0	841.96	841.96	0	841.96
164+00.000	40.99	75.22	75.22	0	0	917.18	917.18	0	917.18
164+50.000	36.6	71.84	71.84	0	0	989.02	989.02	0	989.02
165+00.000	10.33	43.45	43.45	0	0	1032.48	1032.48	0	1032.48
165+50.000	10.33	19.13	19.13	0	0	1051.6	1051.6	0	1051.6
166+00.000	10.33	19.13	19.13	0	0	1070.73	1070.73	0	1070.73
166+50.000	10.33	19.13	19.13	0	0	1089.86	1089.86	0	1089.86
167+00.000	10.33	19.13	19.13	0	0	1108.99	1108.99	0	1108.99
167+25.000	10.33	9.56	9.56	0	0	1118.55	1118.55	0	1118.55
167+50.000	10.33	9.56	9.56	0	0	1128.11	1128.11	0	1128.11
168+00.000	10.33	19.13	19.13	0	0	1147.24	1147.24	0	1147.24
168+50.000	10.33	19.13	19.13	0	0	1166.37	1166.37	0	1166.37
169+00.000	10.33	19.13	19.13	0	0	1185.5	1185.5	0	1185.5

Station	Cut Area	<u>Cut</u> Volume	Reusable Volume	Fill Area	<u>Fill</u> Volume	Cum. Cut Vol.	<u>Cum.</u> Reusable	Cum. Fill Vol.	Cum. Net Vol.
	<u>(Sq.ft.)</u>	(Cu.yd.)	(Cu.yd.)	<u>(Sq.ft.)</u>	(Cu.yd.)	(Cu.yd.)	<u>Vol.</u>	(Cu.yd.)	(Cu.yd.)
171+50.000	23.16	0	0	0	0	0	0	0	0
172+00.000	19.14	39.16	39.16	0	0	39.16	39.16	0	39.16
172+15.000	28.36	13.19	13.19	0	0	52.36	52.36	0	52.36
172+65.000	32.36	56.22	56.22	0	0	108.58	108.58	0	108.58
172+95.003	34.75	37.29	37.29	0	0	145.87	145.87	0	145.87
173+00.000	23.88	5.43	5.43	0	0	151.29	151.29	0	151.29
173+75.000	34.75	81.43	81.43	0	0	232.72	232.72	0	232.72
174+00.000	34.75	32.18	32.18	0	0	264.9	264.9	0	264.9
174+50.000	34.75	64.35	64.35	0	0	329.25	329.25	0	329.25
175+00.000	23.88	54.29	54.29	0	0	383.53	383.53	0	383.53
175+15.605	60.82	24.48	24.48	0	0	408.01	408.01	0	408.01
175+50.000	35.06	61.07	61.07	0	0	469.08	469.08	0	469.08
175+83.190	71.24	65.34	65.34	0	0	534.42	534.42	0	534.42
175+95.046	89.03	35.19	35.19	0	0	569.61	569.61	0	569.61
176+00.000	62.63	13.91	13.91	6.72	0.62	583.52	583.52	0.62	582.91
176+70.289	38.87	132.11	132.11	0	8.74	715.64	715.64	9.36	706.28
177+00.000	100.68	76.78	76.78	0	0	792.42	792.42	9.36	783.06
177+45.640	45.43	123.49	123.49	43.41	36.69	915.91	915.91	46.05	869.86
178+00.000	41.18	87.18	87.18	0	43.7	1003.09	1003.09	89.75	913.34
178+50.000	34.75	70.31	70.31	0	0	1073.4	1073.4	89.75	983.65
179+00.000	34.75	64.35	64.35	0	0	1137.76	1137.76	89.75	1048
179+50.000	34.75	64.35	64.35	0	0	1202.11	1202.11	89.75	1112.36
180+00.000	23.88	54.29	54.29	0	0	1256.39	1256.39	89.75	1166.64
180+45.661	33.09	48.17	48.17	0	0	1304.56	1304.56	89.75	1214.81
181+00.000	30.41	63.9	63.9	0	0	1368.46	1368.46	89.75	1278.71
181+45.749	18.88	41.76	41.76	0	0	1410.22	1410.22	89.75	1320.46
181+76.765	24.27	24.78	24.78	0	0	1435	1435	89.75	1345.25
181+95.774	16.29	14.28	14.28	0	0	1449.28	1449.28	89.75	1359.53

9

PROJECT NO: 3190-08-00 HWY: STH 120 COUNTY: WALWORTH EARTHWORK QUANTITIES SHEET **E**

FILE NAME: P\126245HE\DWG\3190-08-00\SHEETSPLAN\090101_EW.DWG PLOT BY: GRUNWALD, BEN PLOT NAME: PLOT SCALE: 1 IN:10 FT HORZ. / 1 IN:10 FT VERT. WISDOT/CADDS SHEET 49

STH 120 STA 182+00 - 194+50

<u>Station</u>	Cut Area (Sq.ft.)	Cut Volume (Cu.yd.)	Reusabl e Volume (Cu.yd.)	Fill Area (Sq.ft.)	Fill Volume (Cu.yd.)	Cum. Cut Vol. (Cu.yd.)	Cum. Reusabl e Vol. (Cu.yd.)	Cum. Fill Vol. (Cu.yd.)	Cum. Net Vol. (Cu.yd.)
182+00.000	16.42	0	0	0	0	0	0	0	0
182+50.000		36.19	36.19	0	0	36.19	36.19	0	36.19
183+00.000	, ,	30.55	30.55	0	0	66.74	66.74	0	66.74
183+50.000		19.13	19.13	0	0	85.87	85.87	0	85.87
184+00.000	200 200 200 200	19.13	19.13	0	0	104.99	104.99	0	104.99
184+50.000		19.13	19.13	0	0	124.12	124.12	0	124.12
185+00.000		19.13	19.13	0	0	143.25	143.25	0	143.25
185+50.000		19.13	19.13	0	0	162.38	162.38	0	162.38
186+00.000		19.13	19.13	0	0	181.5	181.5	0	181.5
186+50.000		19.13	19.13	0	0	200.63	200.63	0	200.63
187+00.000		19.13	19.13	0	0	219.76	219.76		219.76
187+50.000	600 600	19.13	19.13	0	0	238.89	238.89	0	238.89
188+00.000		19.13	19.13	0	0	258.02	258.02	0	258.02
188+50.000		19.13	19.13	0	0	277.14	277.14	0	277.14
189+00.000	10.33	19.13	19.13	0	0	296.27	296.27	0	296.27
189+50.000		19.13	19.13	0	0	315.4	315.4	0	315.4
190+00.000		19.13	19.13	0	0	334.53	334.53	0	334.53
190+50.000		19.13	19.13	0	0	353.65	353.65	0	353.65
191+00.000		19.13	19.13	0	0	372.78	372.78	0	372.78
191+50.000	10.33	19.13	19.13	0	0	391.91	391.91	0	391.91
192+00.000	10.33	19.13	19.13	0	0	411.04	411.04	0	411.04
192+50.000	10.33	19.13	19.13	0	0	430.16	430.16	0	430.16
193+00.000	10.33	19.13	19.13	0	0	449.29	449.29	0	449.29
193+50.000	10.33	19.13	19.13	0	0	468.42	468.42	0	468.42
194+00.000	10.33	19.13	19.13	0	0	487.55	487.55	0	487.55
194+50.000	10.33	19.13	19.13	0	0	506.68	506.68	0	506.68

HWY: STH 120 COUNTY: WALWORTH SHEET Е PROJECT NO: 3190-08-00 EARTHWORK QUANTITIES

PLOT DATE : 8/16/2019 2:06 PM PLOT BY: GRUNWALD, BEN PLOT NAME : PLOT SCALE: 1 IN:10 FT HORZ. / 1 IN:10 FT VERT. WISDOT/CADDS SHEET 49

FILE NAME : P:\12624SHE\DWG\3190-08-00\SHEETSPLAN\090101_EW.DWG LAYOUT NAME - 090102_ew

<u> </u>	<u>Station</u>	Cut Area (Sq.ft.)	Cut Volume (Cu.yd.)	Reusable Volume (Cu.yd.)	Fill Area (Sq.ft.)	Fill Volume (Cu.yd.)	Cum. Cut Vol. (Cu.yd.)	Cum. Reusable Vol. (Cu.yd.)	Cum. Fill Vol. (Cu.yd.)	Cum. Net Vol. (Cu.yd.)	
											1
19	94+70.000	41.66	0	0	0	0	0	0	0	0	
19	95+00.000	43.32	47.21	47.21	0	0	47.21	47.21	0	47.21	
19	95+50.000	46.08	82.77	82.77	0	0	129.98	129.98	0	129.98	
19	96+00.000	32.88	73.11	73.11	0	0	203.09	203.09	0	203.09	
19	96+50.000	42.5	69.79	69.79	0	0	272.88	272.88	0	272.88	
19	7+00.000	50.56	86.17	86.17	0	0	359.05	359.05	0	359.05	\vdash
19	7+50.000	61.39	103.66	103.66	0	0	462.71	462.71	0	462.71	_
19	7+69.620	34.61	34.88	34.88	0	0	497.59	497.59	0	497.59	
19	98+00.000	61.91	54.3	54.3	0	0	551.88	551.88	0	551.88	_
19	98+40.240	74.87	101.92	101.92	0	0	653.81	653.81	0	653.81	
19	98+50.000	77.09	27.47	27.47	0	0	681.27	681.27	0	681.27	_
19	9+00.000	43.95	112.07	112.07	0	0	793.35	793.35	0	793.35	. L
19	9+40.520	54.82	74.11	74.11	0	0	867.46	867.46	0	867.46	
20	00+00.000	42.12	106.78	106.78	0	0	974.23	974.23	0	974.23	
20	00+50.000	41.91	77.8	77.8	0	0	1052.04	1052.04	0	1052.04	
20	1+00.000	45.78	81.2	81.2	0.18	0.16	1133.24	1133.24	0.16	1133.07	L
20	1+50.000	28.1	68.42	68.42	0	0.16	1201.65	1201.65	0.33	1201.33	
20	2+00.000	34.45	57.92	57.92	0	0	1259.57	1259.57	0.33	1259.25	
20	2+58.510	27.97	67.63	67.63	0	0	1327.21	1327.21	0.33	1326.88	
20	3+00.000	13.9	32.17	32.17	0	0	1359.38	1359.38	0.33	1359.05	
20	3+26.630	13.94	13.73	13.73	0	0	1373.11	1373.11	0.33	1372.78	
	04+00.000	13.94	37.88	37.88	0		1410.99	1410.99	0.33	1410.66	
	04+69.900	12.32	33.99	33.99	0		1444.98	1444.98		1444.66	
	04+96.100	11.49		11.56	0	0	1456.54	1456.54	0.33	1456.21	
	5+00.000	11.45		1.66	0	0	1458.19	1458.19	0.33	1457.87	
-)5+22.330	11.51	9.5	9.5	0		1467.69	1467.69	0.33	1467.36	
	5+50.000	11.53		11.81	0		1479.5	1479.5		1479.17	
200.000	06+00.000	11.53	21.35	21.35	0		1500.85	1500.85	0.33	1500.52	
	06+20.000	11.53	8.54	8.54	0		1509.39	1509.39	0.33	1509.06	\vdash
10,000	06+50.000	12.99		13.62			1523.01	1523.01		1522.68	\vdash
	06+93.500			21.77	0	0	1544.77	1544.77		1544.45	\vdash
	7+00.000	13.88		3.36			1548.13	1548.13		1547.81	_
	7+20.490	13.44		10.37	0		1558.5	1558.5		1558.17	
-	7+47.430	12.73		13.06			1571.55	1571.55		1571.23	\vdash
	000.000	12.73		24.78			1596.34	1596.34		1596.01	_
	08+99.655	12.73		46.98			1643.32	1643.32	0.33	1642.99	\vdash
	9+50.000	12.72	23.72	23.72	0		1667.04	1667.04		1666.71	\vdash
	9+89.950	12.73		18.83			1685.87	1685.87	0.33	1685.54	\vdash
	0+00.000	12.9		4.77	0		1690.64	1690.64		1690.31	
	0+16.000	13.25		7.75			1698.38	1698.38		1698.05	\vdash
	0+42.080	14.03		13.17	0		1711.55	1711.55		1711.23	_
	0+99.667	13.62	29.48	29.48			1741.03	1741.03		1740.7	L
	1+02.100	13.86					1742.27	1742.27	0.33	1741.94	
-	1+28.980	14.21	13.97	13.97	0		1756.24	1756.24		1755.91	
	1+45.000	12.57	7.94	7.94			1764.18	1764.18		1763.86	1
	1+55.960	12.83		5.16			1769.34	1769.34		1769.01	1
	2+00.000	11.78		20.07	0		1789.41	1789.41	0.33	1789.08	1
	2+40.000	10.54		16.53	0		1805.94	1805.94		1805.61	1
	2+46.030	10.33		2.33	0	25/07	1808.27	1808.27	0.33	1807.94	ī

STH	120	
STA	194+70 - 229+	47

<u>Station</u>	Cut Area (Sq.ft.)	Cut Volume (Cu.yd.)	Reusable Volume (Cu.yd.)	Fill Area (Sq.ft.)	Fill Volume (Cu.yd.)	Cum. Cut Vol. (Cu.yd.)	Cum. Reusable Vol. (Cu.yd.)	Cum. Fill Vol. (Cu.yd.)	Cum. Net Vol. (Cu.yd.)
212+50.000	10.33	0	0	0	0	0	0	0	0
213+00.000	10.33	19.13	19.13	0	0	19.13	19.13	0	19.13
213+50.000	10.33	19.13	19.13	0	0	38.26	38.26	0	38.26
214+00.000	10.33	19.13	19.13	0	0	57.38	57.38	0	57.38
214+50.000	10.33	19.13	19.13	0	0	76.51	76.51	0	76.51
215+00.000	10.33	19.13	19.13	0	0	95.64	95.64	0	95.64
215+50.000	10.33	19.13	19.13	0	0	114.77	114.77	0	114.77
216+00.000	10.33	19.13	19.13	0	0	133.89	133.89	0	133.89
216+50.000	10.33	19.13	19.13	0	0	153.02	153.02	0	153.02
217+00.000	10.33	19.13	19.13	0	0	172.15	172.15	0	172.15
217+50.000	10.33	19.13	19.13	0	0	191.28	191.28	0	191.28
218+00.000	10.33	19.13	19.13	0	0	210.4	210.4	0	210.4
218+50.000	10.33	19.13	19.13	0	0	229.53	229.53	0	229.53
219+00.000	10.33	19.13	19.13	0	0	248.66	248.66	0	248.66
219+50.000	10.33	19.13	19.13	0	0	267.79	267.79	0	267.79
220+00.000	10.33	19.13	19.13	0	0	286.92	286.92	0	286.92
220+50.000	10.33	19.13	19.13	0	0	306.04	306.04	0	306.04
221+00.000	10.33	19.13	19.13	0	0	325.17	325.17	0	325.17
221+50.000	10.33	19.13	19.13	0	0	344.3	344.3	0	344.3
222+00.000	10.33	19.13	19.13	0	0	363.43	363.43	0	363.43
222+50.000	10.33	19.13	19.13	0	0	382.55	382.55	0	382.55
223+00.000	10.33	19.13	19.13	0	0	401.68	401.68	0	401.68
223+50.000	10.33	19.13	19.13	0	0	420.81	420.81	0	420.81
224+00.000	10.33	19.13	19.13	0	0	439.94	439.94	0	439.94
224+50.000	10.33	19.13	19.13	0	0	459.06	459.06	0	459.06
225+00.000	10.33	19.13	19.13	0	0	478.19	478.19	0	478.19
225+50.000	10.62	19.4	19.4	0	0	497.59	497.59	0	497.59
226+00.000	11.21	20.21	20.21	0	0	517.8	517.8	0	517.8
226+50.000	11.79	21.29	21.29	0	0	539.1	539.1	0	539.1
227+00.000	12.08	22.1	22.1	0	0	561.2	561.2	0	561.2
227+50.000	12.08	22.37	22.37	0	0	583.56	583.56	0	583.56
228+00.000	12.08	22.37	22.37	0	0	605.93	605.93	0	605.93
228+50.000	9.63	20.11	20.11	0	0	626.04	626.04	0	626.04
229+00.000	5.29	13.82	13.82	0	0	639.86	639.86	0	639.86
229+47.892	0.4	5.05	5.05	0	0	644.91	644.91	0	644.91
Overall Mainline Totals						5594.64	5594.64	90.08	5504.56

PROJECT NO: 3190-08-00 HWY: STH 120 COUNTY: WALWORTH EARTHWORK QUANTITIES SHEET **E**

FILE NAME : P:\12624SHE\DWG\3190-08-00\SHEETSPLAN\090101_EW.DWG PLOT DATE : 8/16/2019 2:06 PM PLOT BY : GRUNWALD, BEN PLOT NAME : PLOT NAME : 1 IN:10 FT HORZ. / 1 IN

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OAK LANE STA 13+72 - 14+67

Station	Cut Area (Sq.ft.)	Cut Volume (Cu.yd.)	Reusable Volume (Cu.yd.)	Fill Area (Sq.ft.)	Fill Volume (Cu.yd.)	Cum. Cut Vol. (Cu.yd.)	Cum. Reusable Vol. (Cu.yd.)	Cum. Fill Vol. (Cu.yd.)	Cum. Net Vol. (Cu.yd.)
13+71.923	7.74	0	0	0	0	0	0	0	0
14+00.000	18.53	13.66	13.66	0	0	13.66	13.66	0	13.66
14+11.858	19.29	8.31	8.31	0	0	21.97	21.97	0	21.97
14+25.000	24.69	10.7	10.7	0	0	32.67	32.67	0	32.67
14+50.000	61.23	39.78	39.78	0	0	72.45	72.45	0	72.45
14+66.590	105.83	51.33	51.33	0	0	123.77	123.77	0	123.77

KRUEGER RD & BUCKBY RD STA 8+49 - 12+60

Station	Cut Area (Sq.ft.)	Cut Volume (Cu.yd.)	Reusable Volume (Cu.yd.)	Fill Area (Sq.ft.)	Fill Volume (Cu.yd.)	Cum. Cut Vol. (Cu.yd.)	Cum. Reusable Vol. (Cu.yd.)	Cum. Fill Vol. (Cu.yd.)	Cum. Net Vol. (Cu.yd.)
8+49.000	8.99	0	0	0	0	0	0	0	0
8+66.275	17.1	8.35	8.35	0	0	8.35	8.35	0	8.35
8+75.000	17.58	5.6	5.6	0	0	13.95	13.95	0	13.95
8+76.831	17.68	1.2	1.2	0	0	15.15	15.15	0	15.15
8+90.039	18.4	8.83	8.83	0	0	23.97	23.97	0	23.97
9+00.000	18.95	6.89	6.89	0	0	30.86	30.86	0	30.86
9+15.676	20	11.31	11.31	0	0	42.17	42.17	0	42.17
9+25.000	23.1	7.44	7.44	0	0	49.61	49.61	0	49.61
9+50.000	43.7	30.92	30.92	0	0	80.54	80.54	0	80.54
10+75.000	12.82	130.82	130.82	0	0	211.36	211.36	0	211.36
10+78.797	12.49	1.78	1.78	0	0	213.14	213.14	0	213.14
11+00.000	28.29	16.01	16.01	0	0	229.15	229.15	0	229.15
11+50.000	6.03	31.78	31.78	0	0	260.93	260.93	0	260.93
12+00.000	0	5.59	5.59	0	0	266.52	266.52	0	266.52
12+50.000	0	0	0	0	0	266.52	266.52	0	266.52
12+60.174	0	0	0	0	0	266.52	266.52	0	266.52

9

PROJECT NO: 3190-08-00 HWY: STH 120 COUNTY: WALWORTH EARTHWORK QUANTITIES SHEET **E**

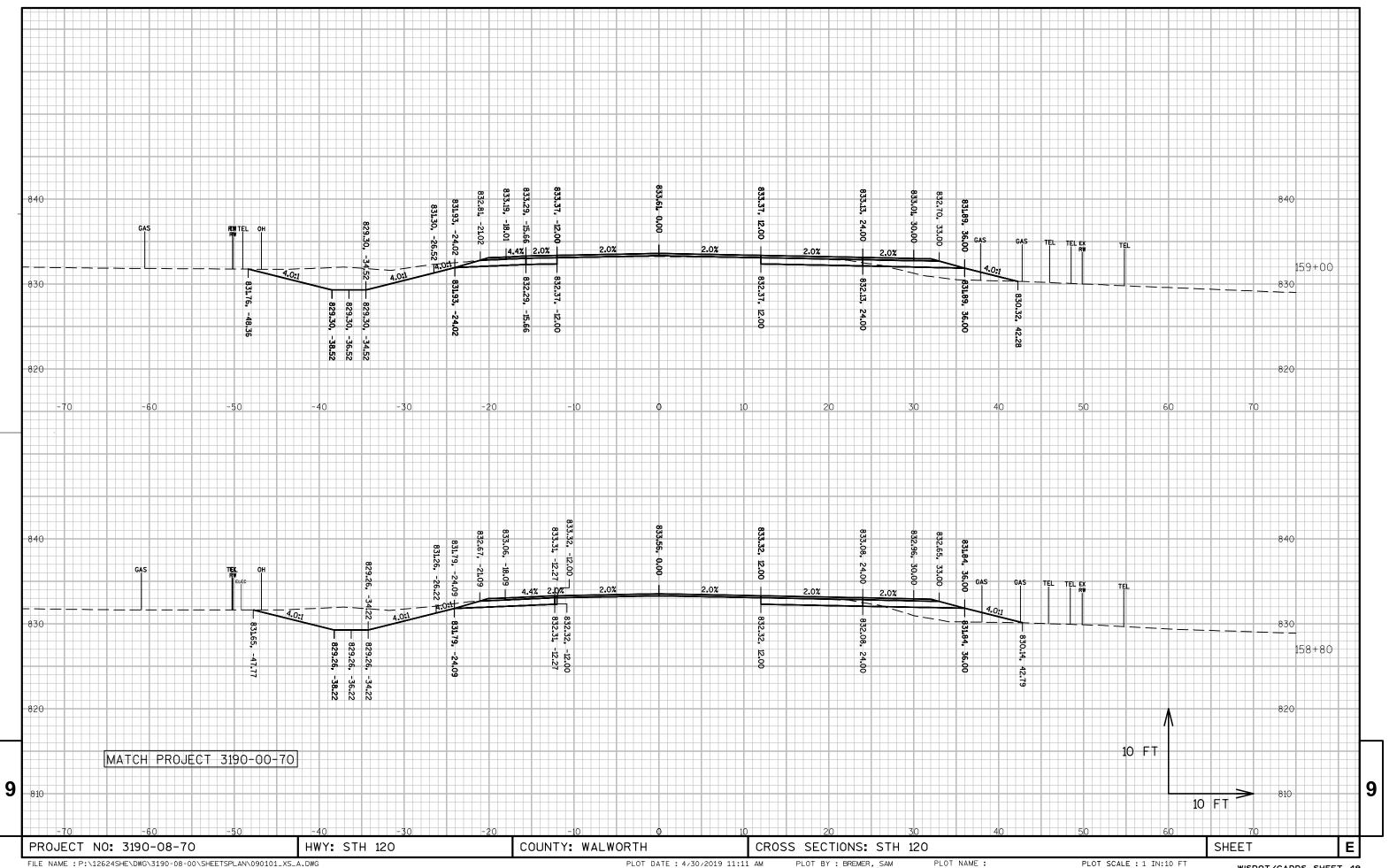
FILE NAME : P:\12624SHE\DWG\3190-08-00\SHEETSPLAN\090101_EW.DWG LAYOUT NAME - 090104_ew

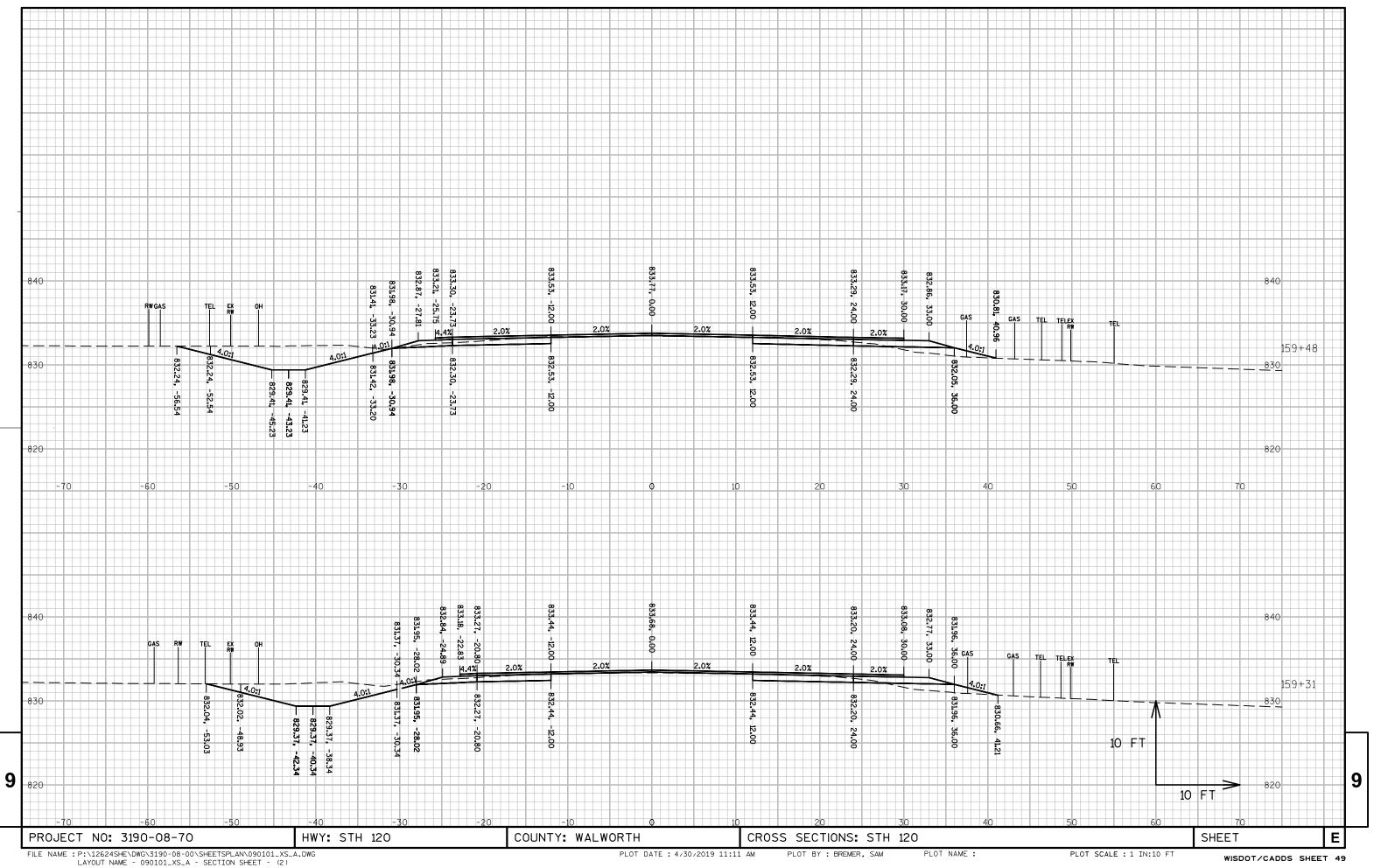
PLOT DATE : 8/16/2019 2:06 PM

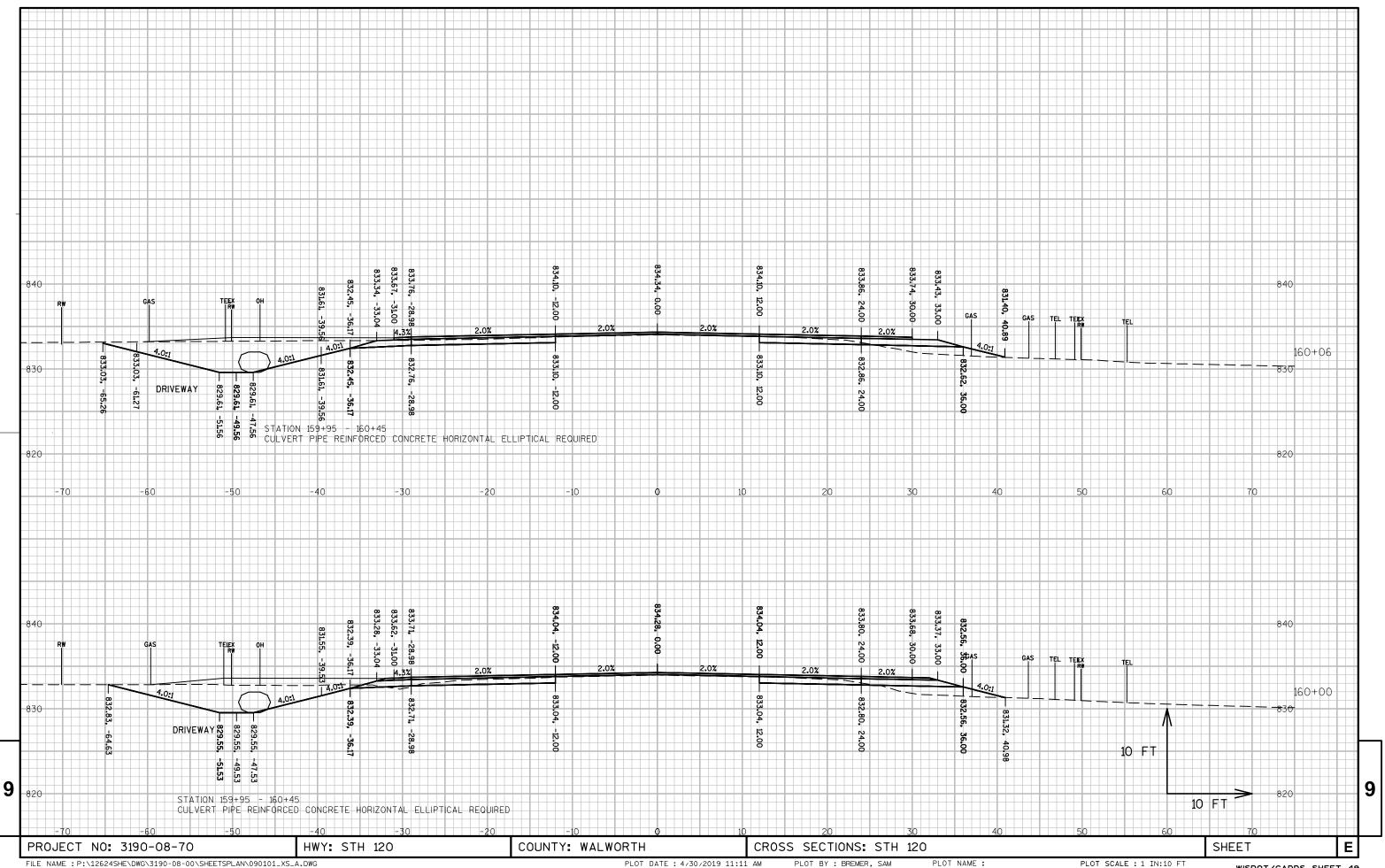
PLOT BY: GRUNWALD, BEN

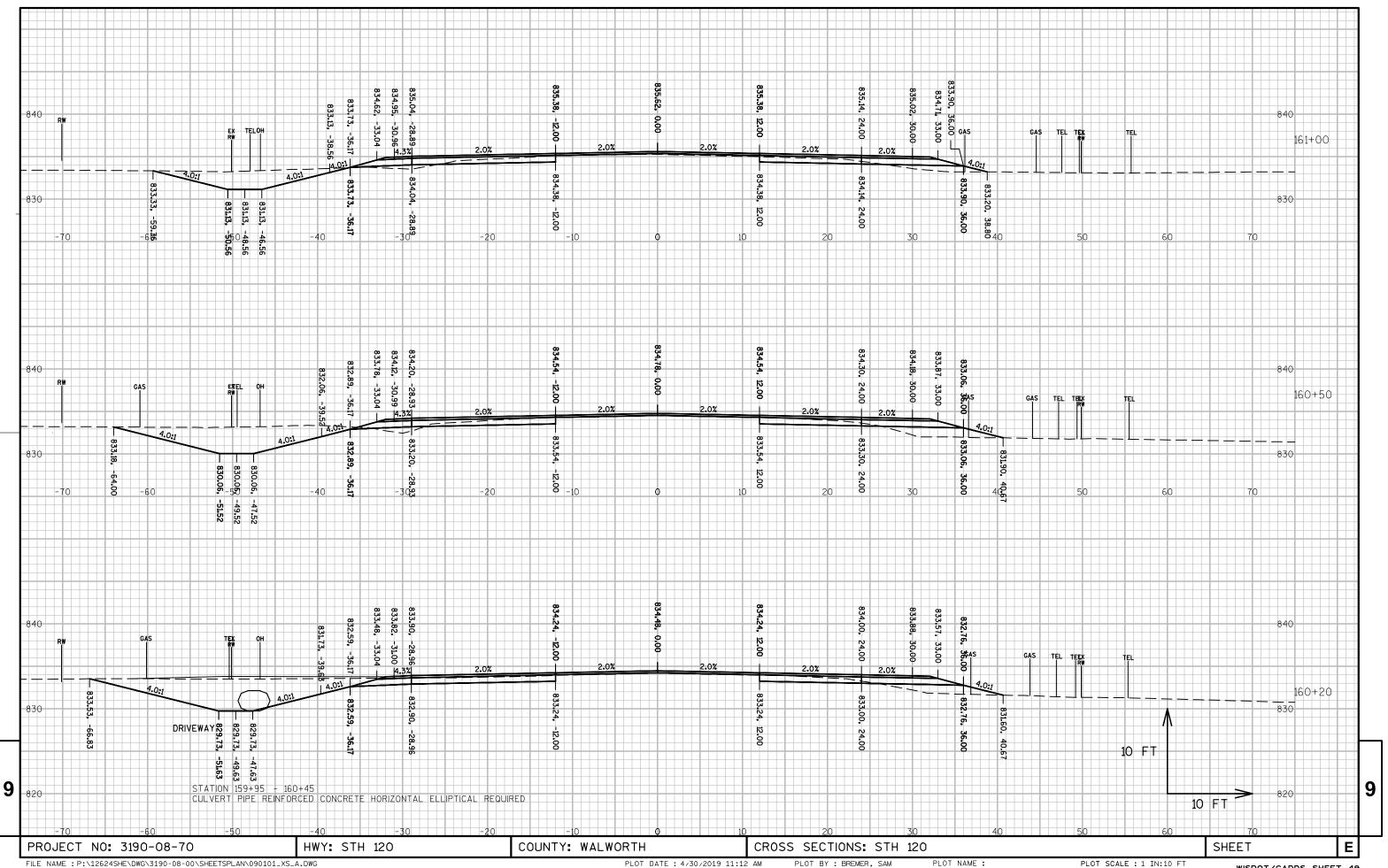
PLOT NAME :

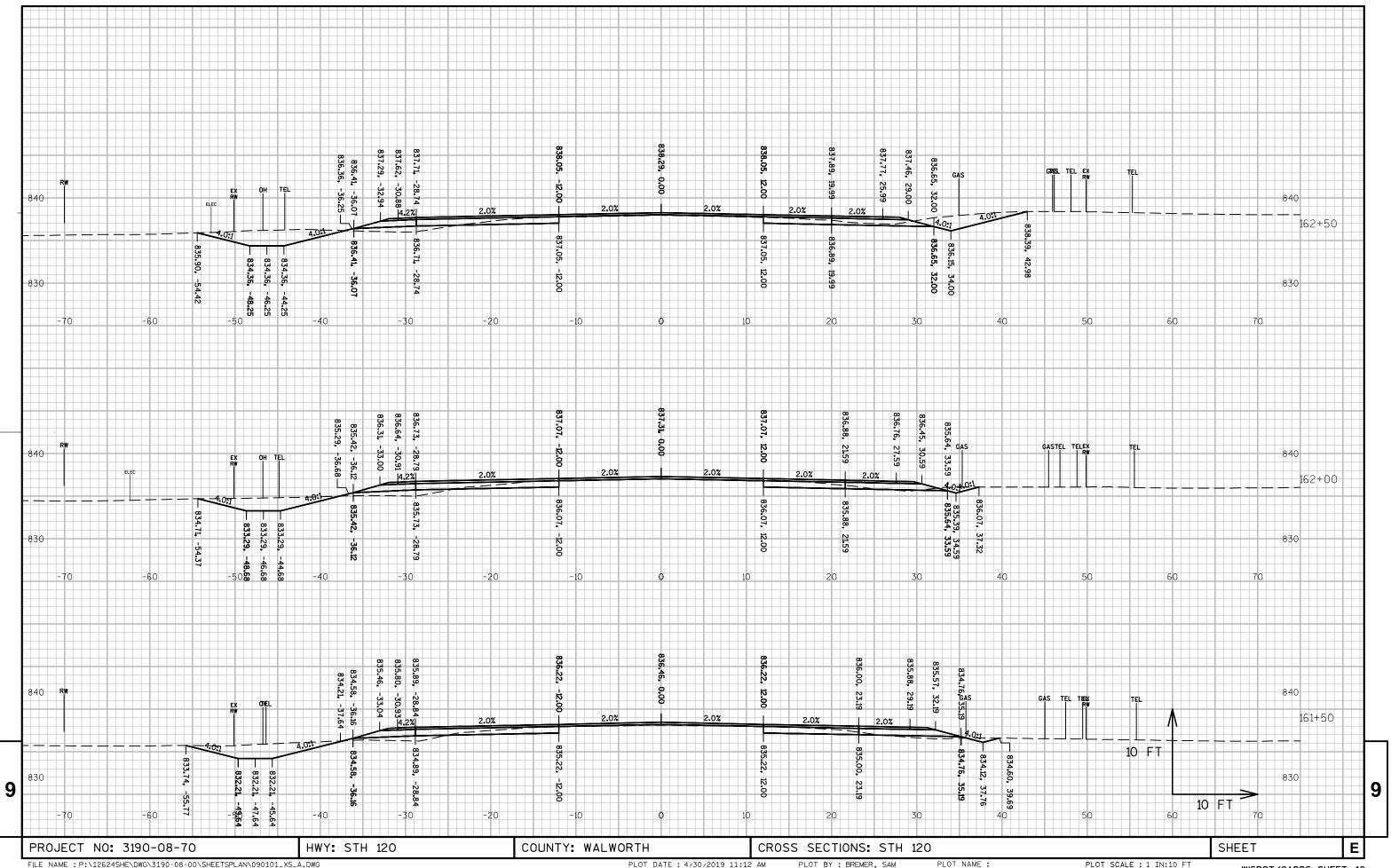
PLOT SCALE: 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

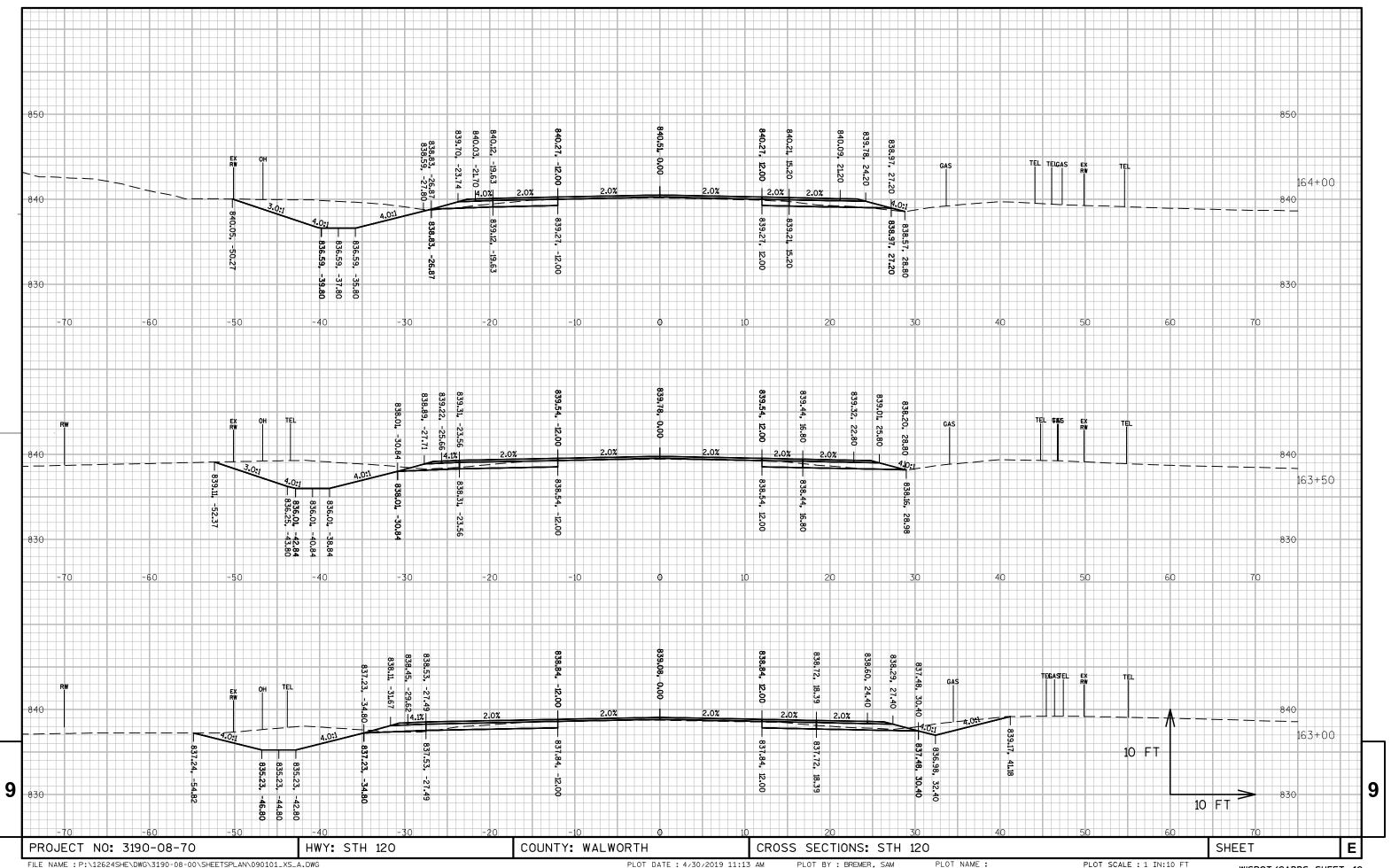


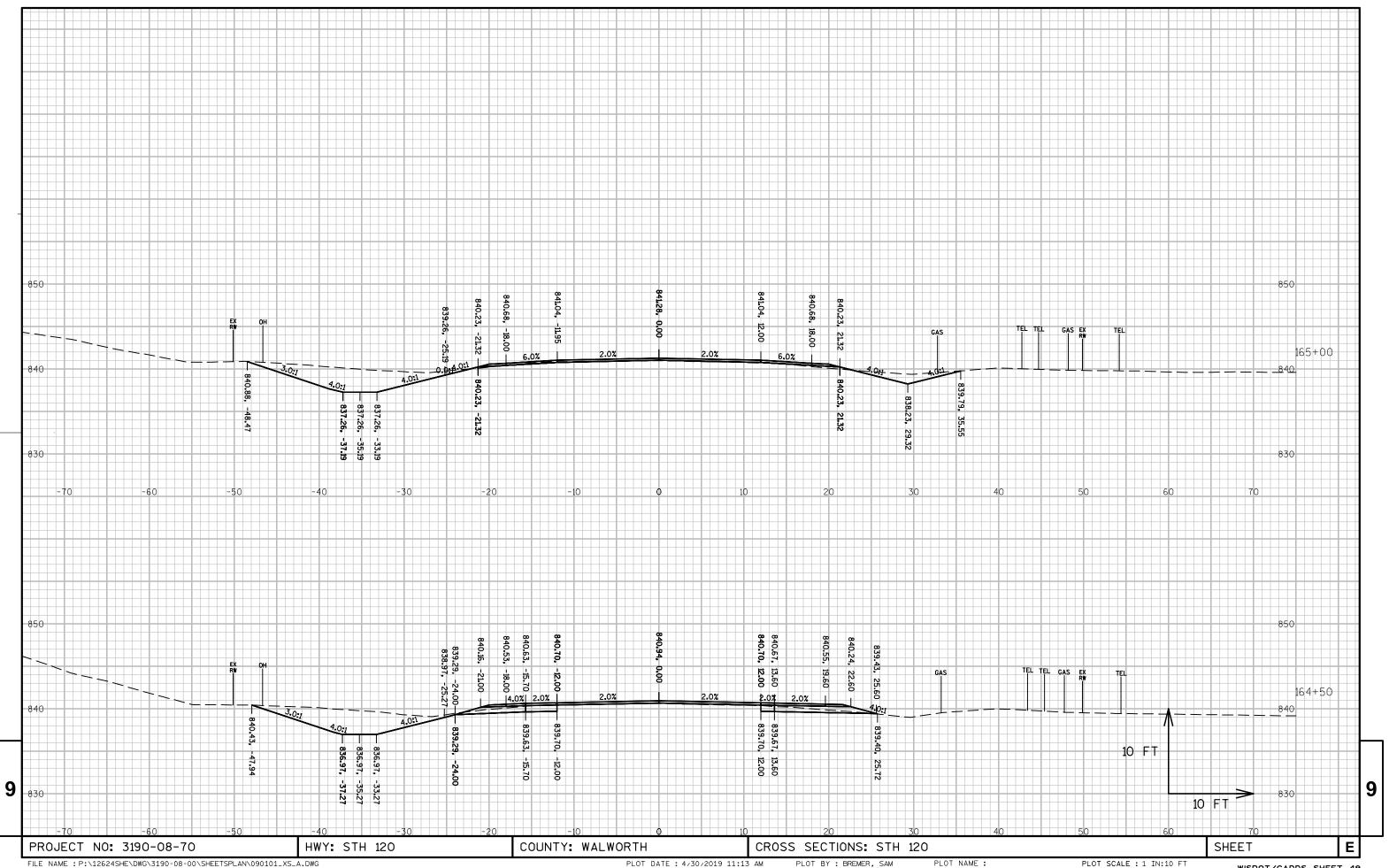


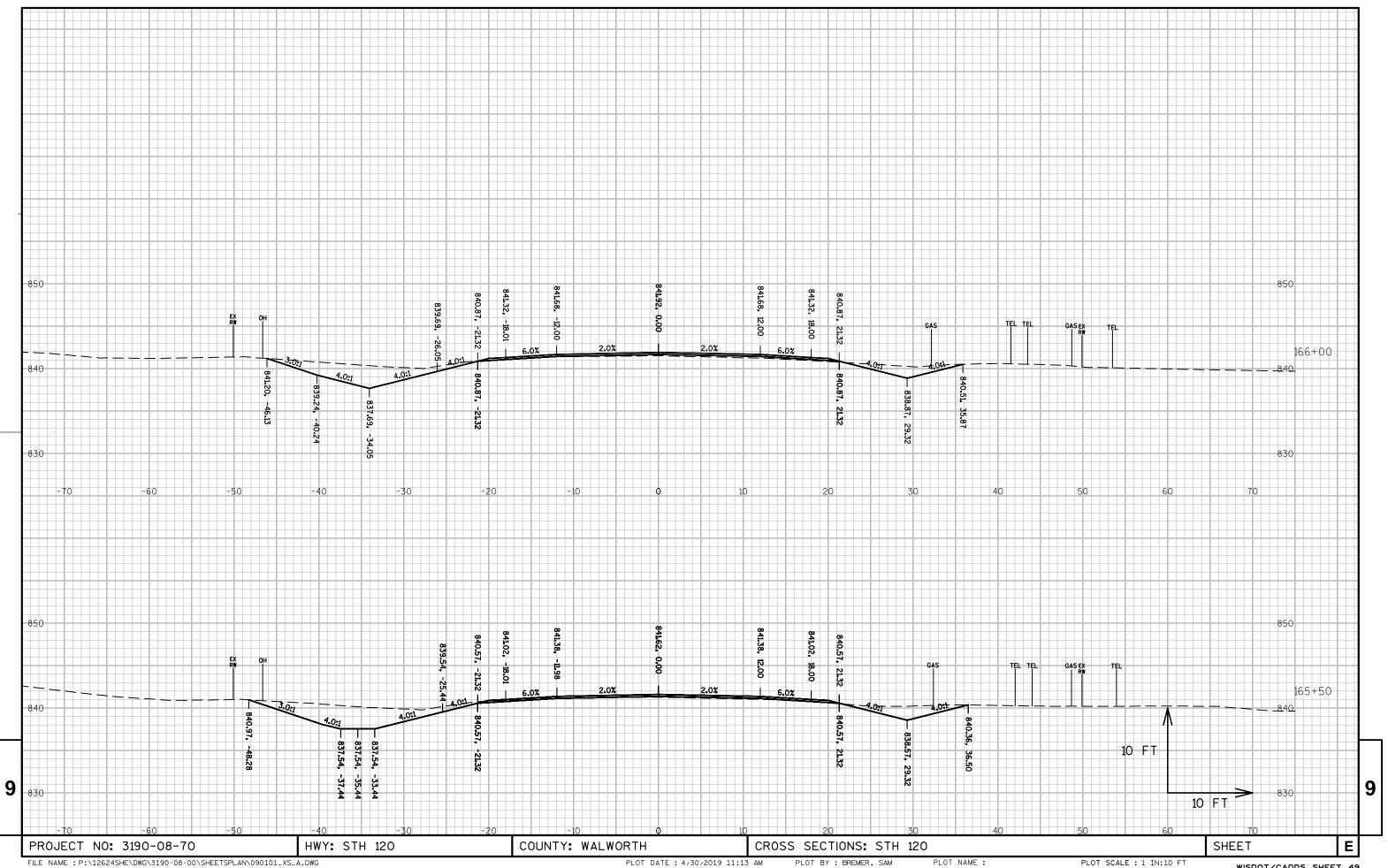


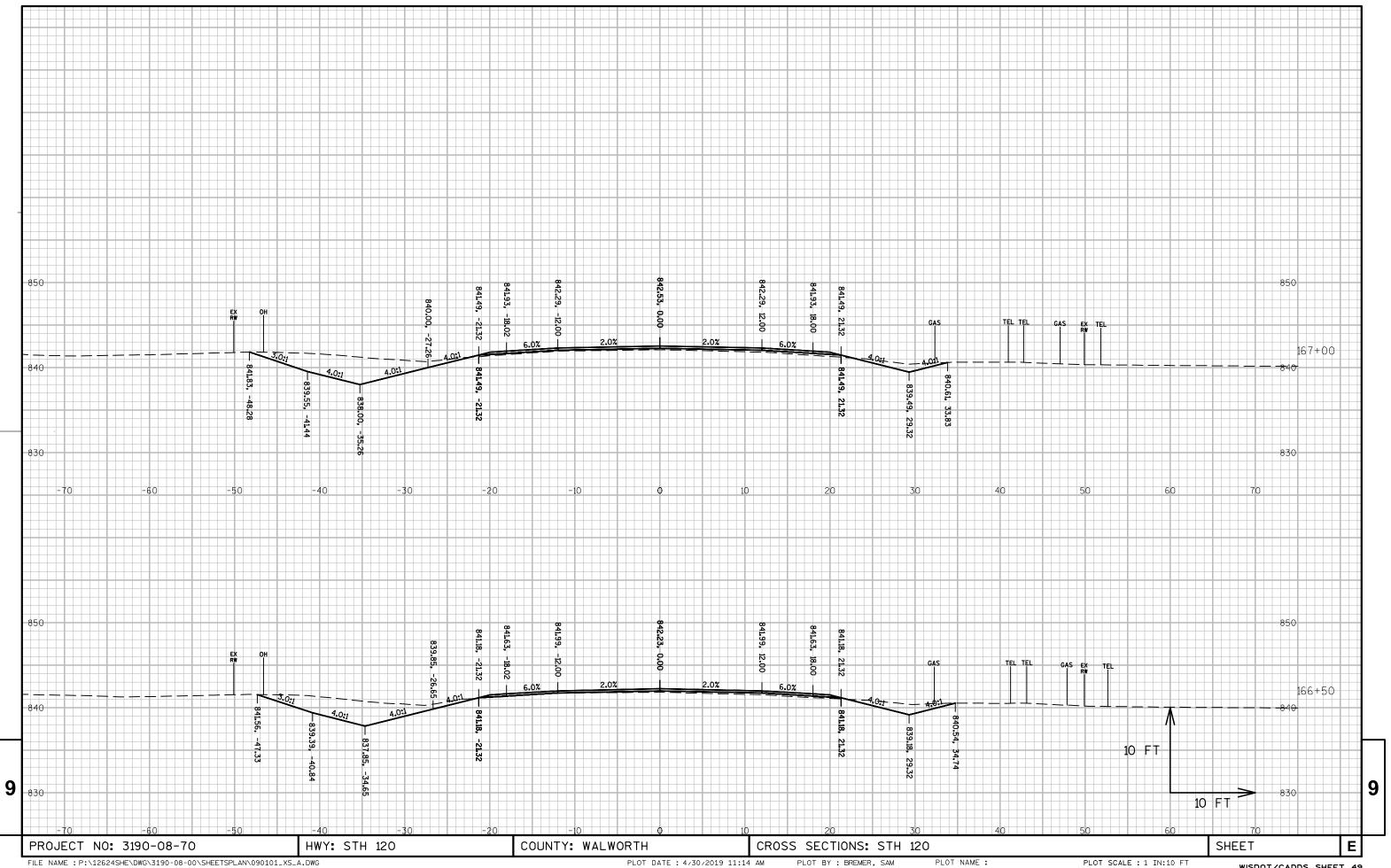


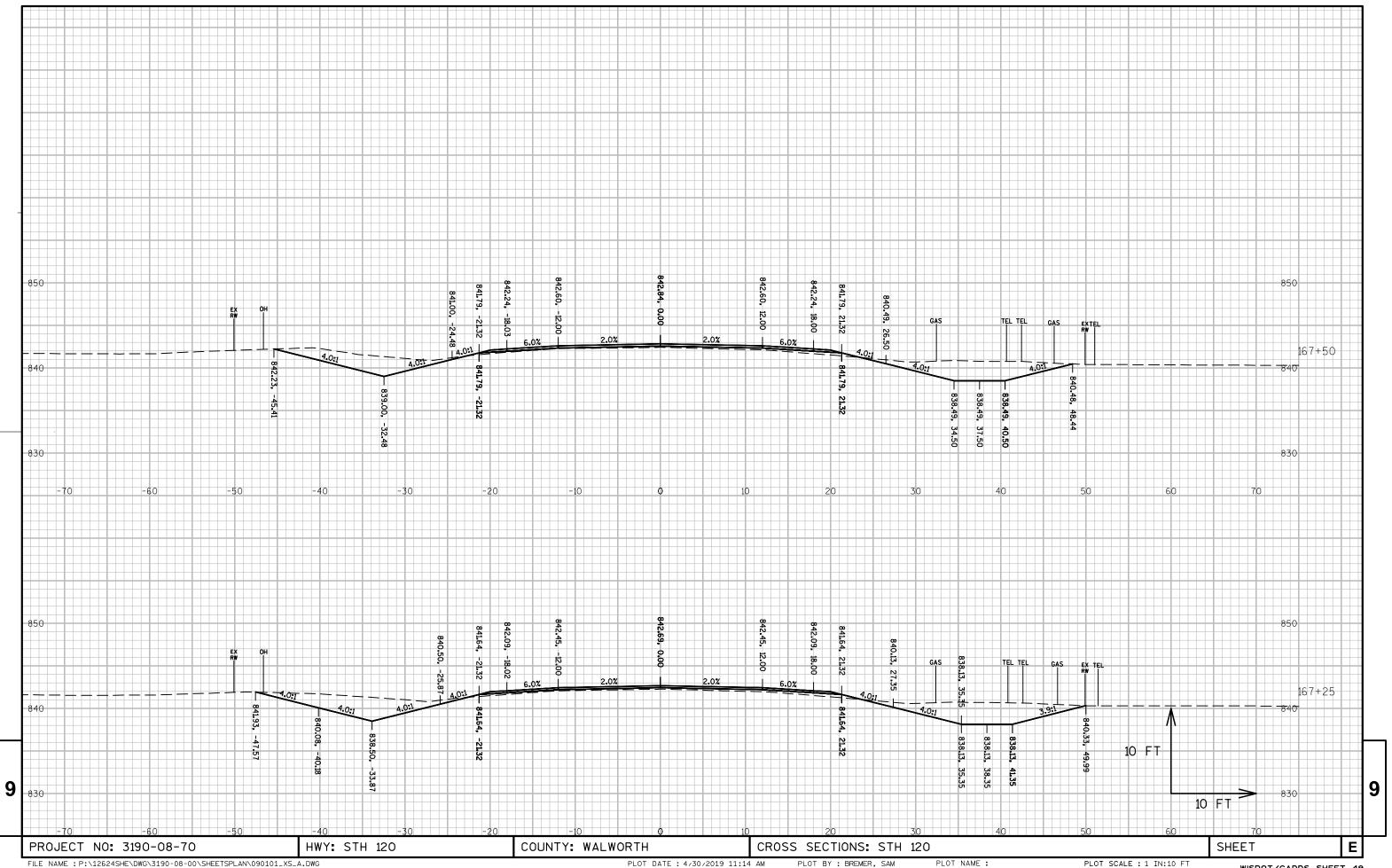


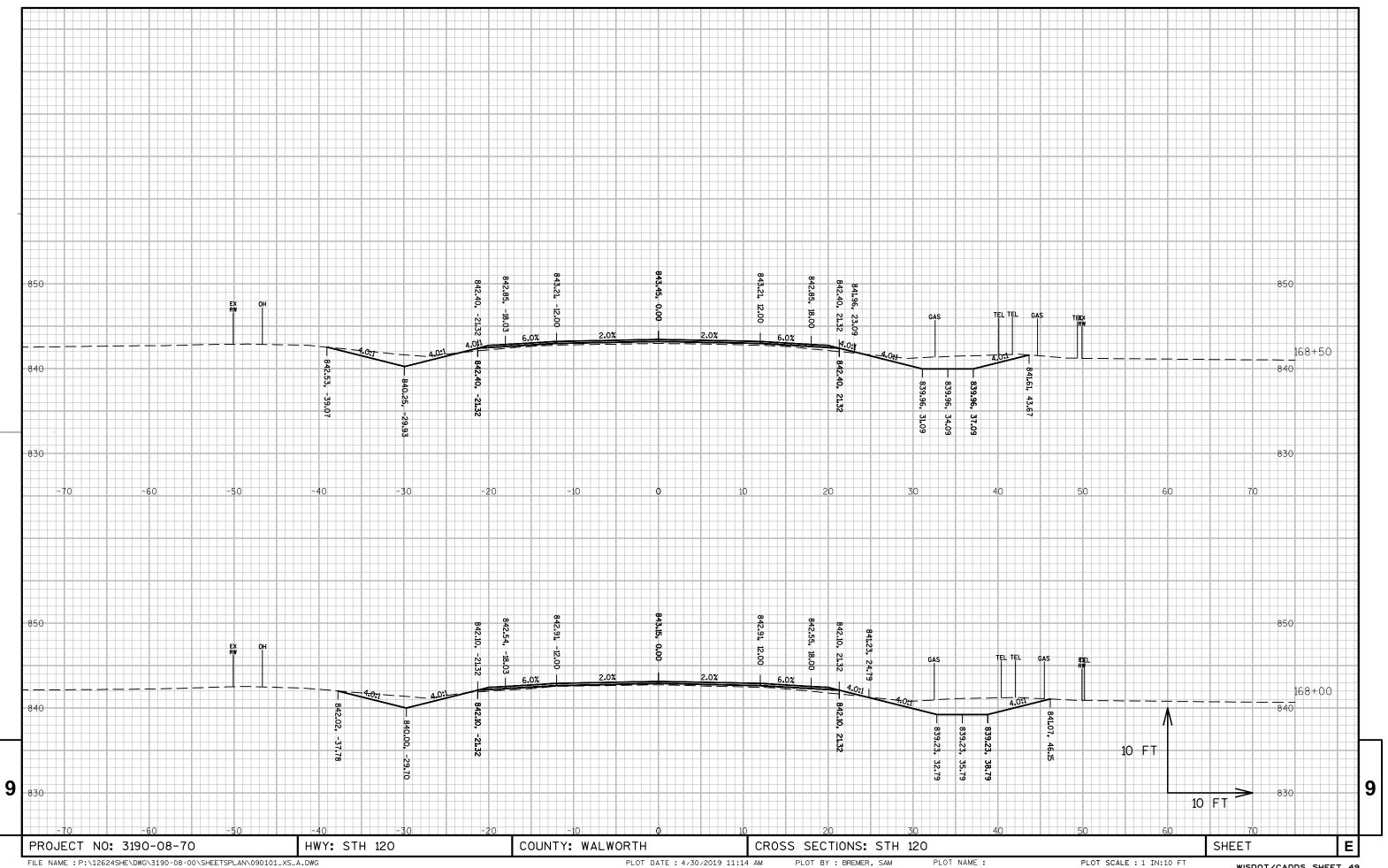


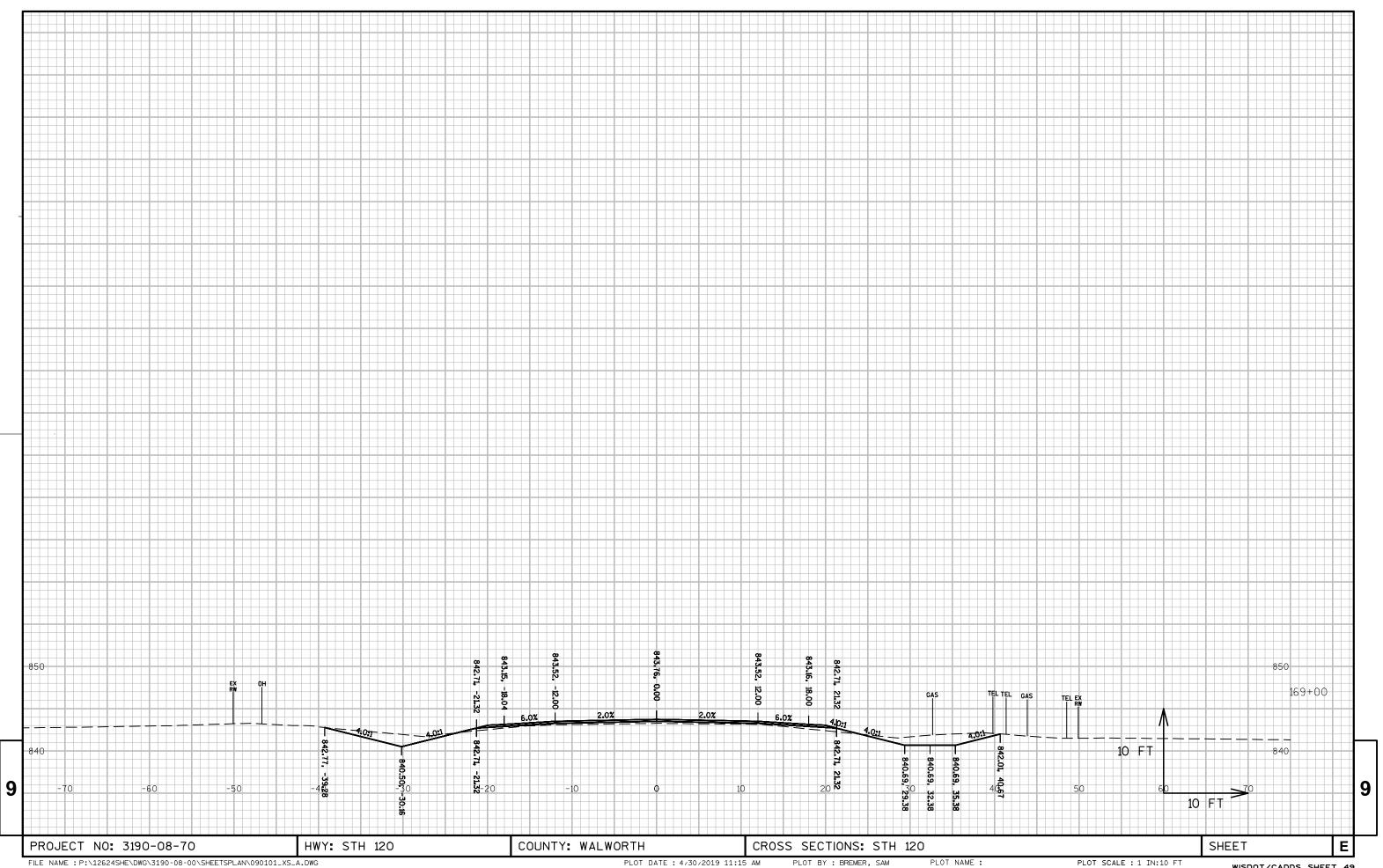


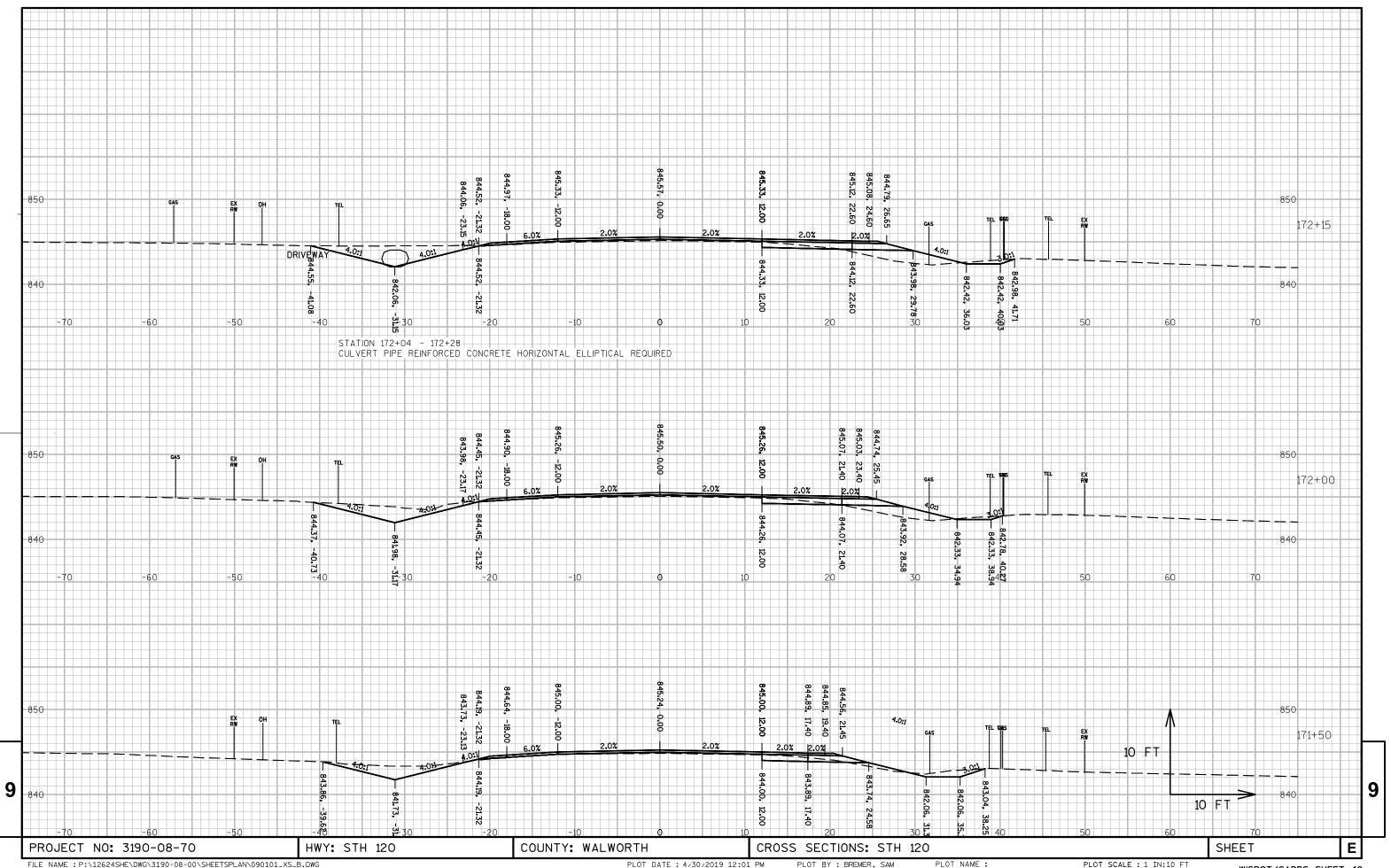


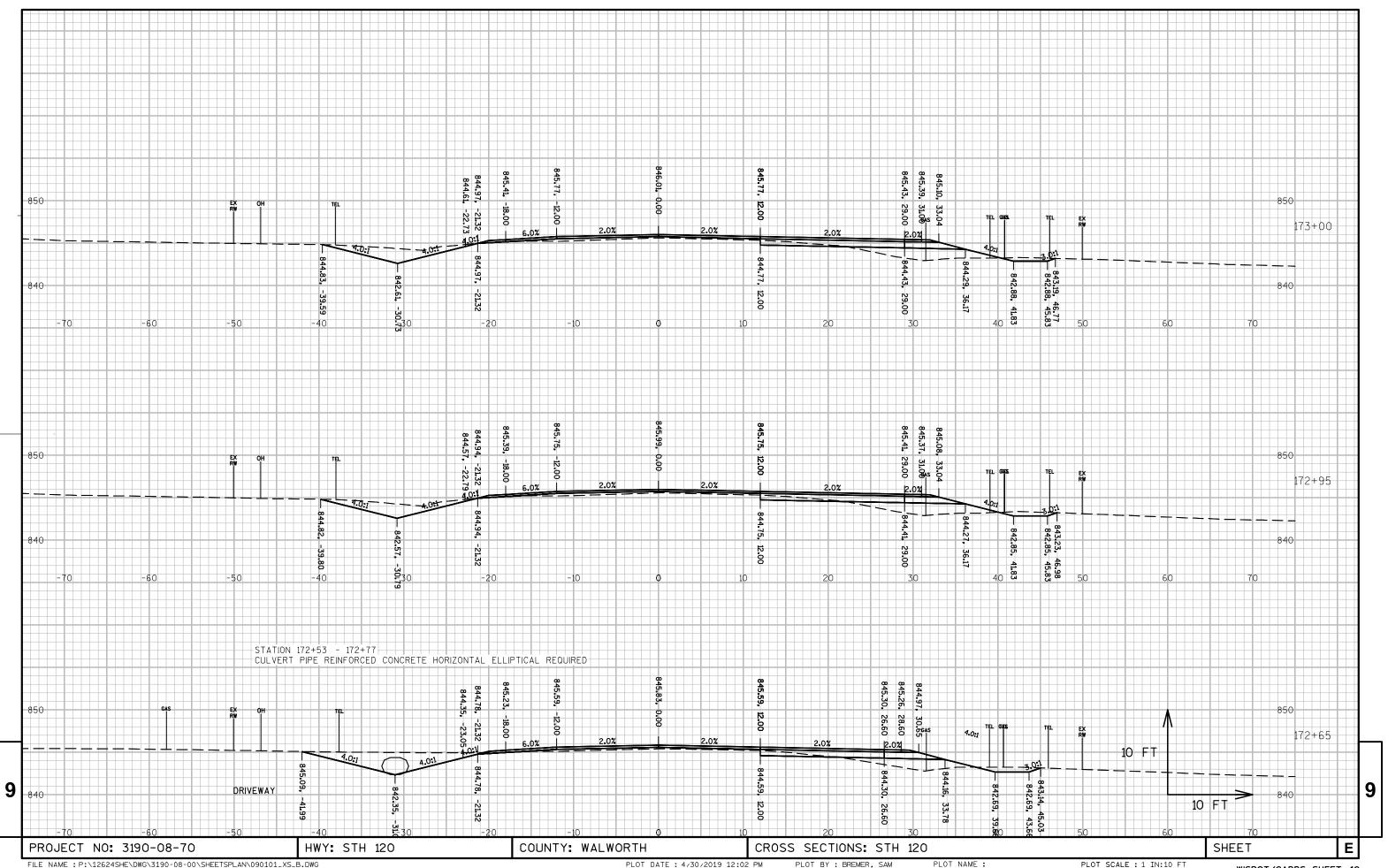


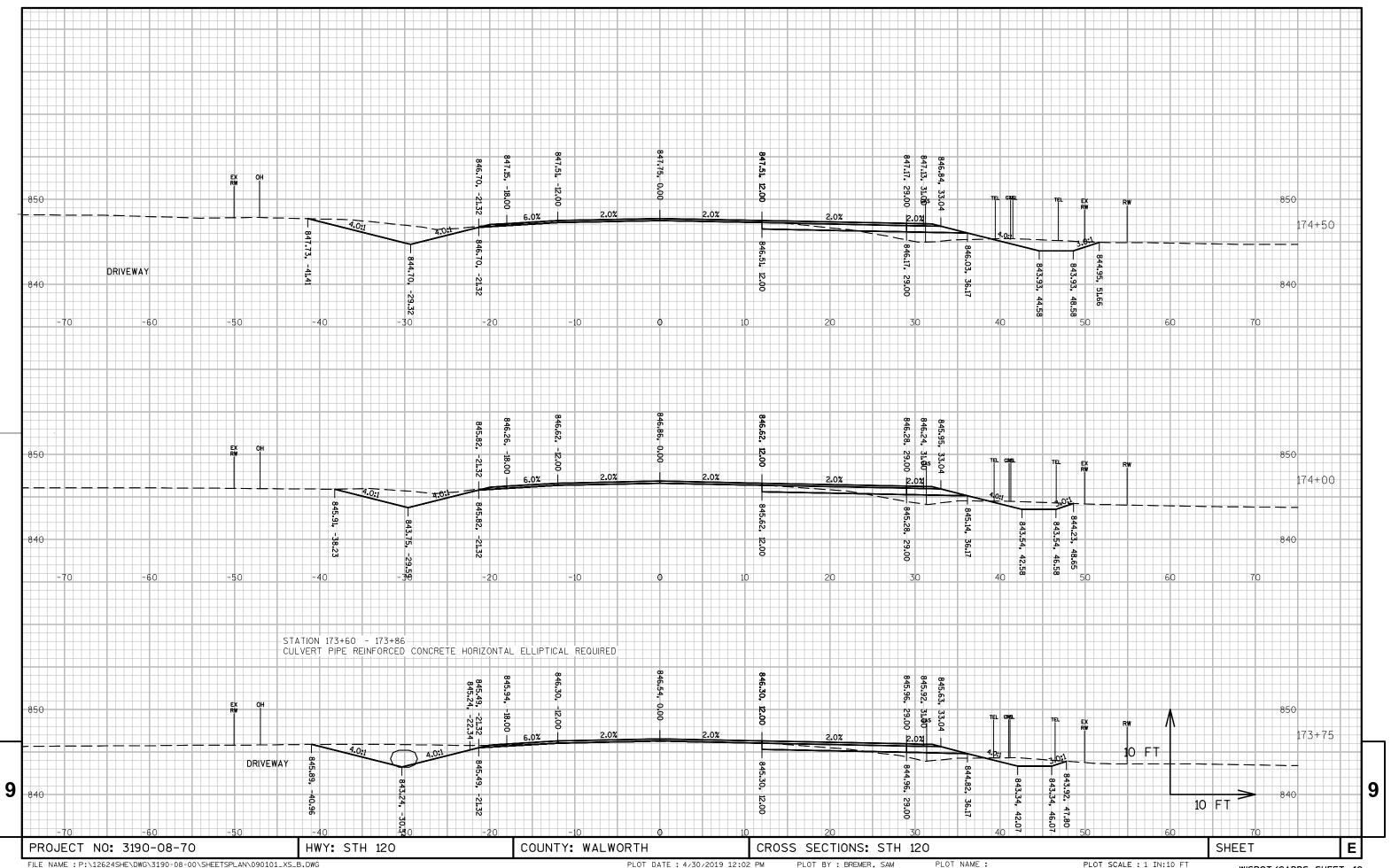


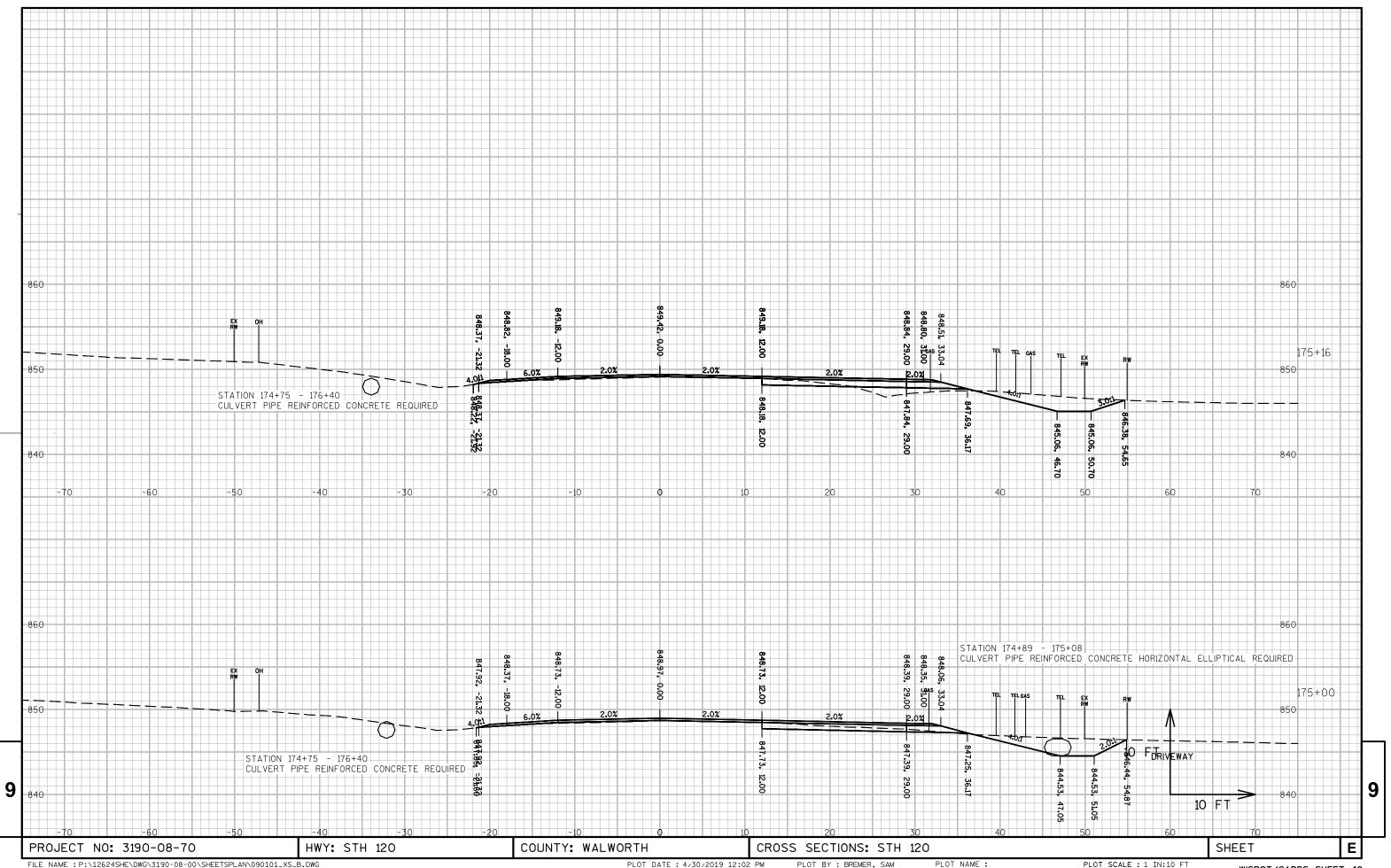


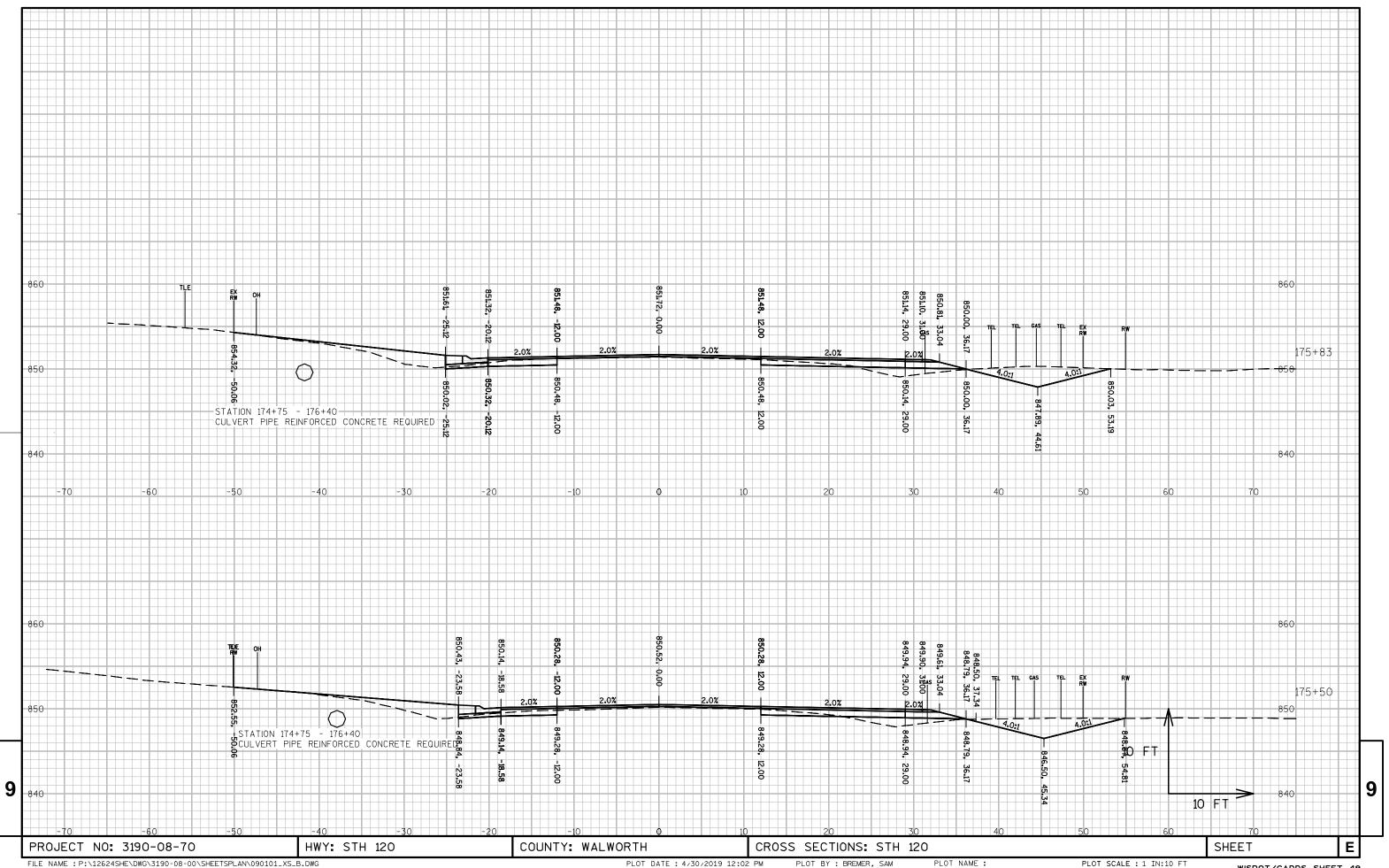


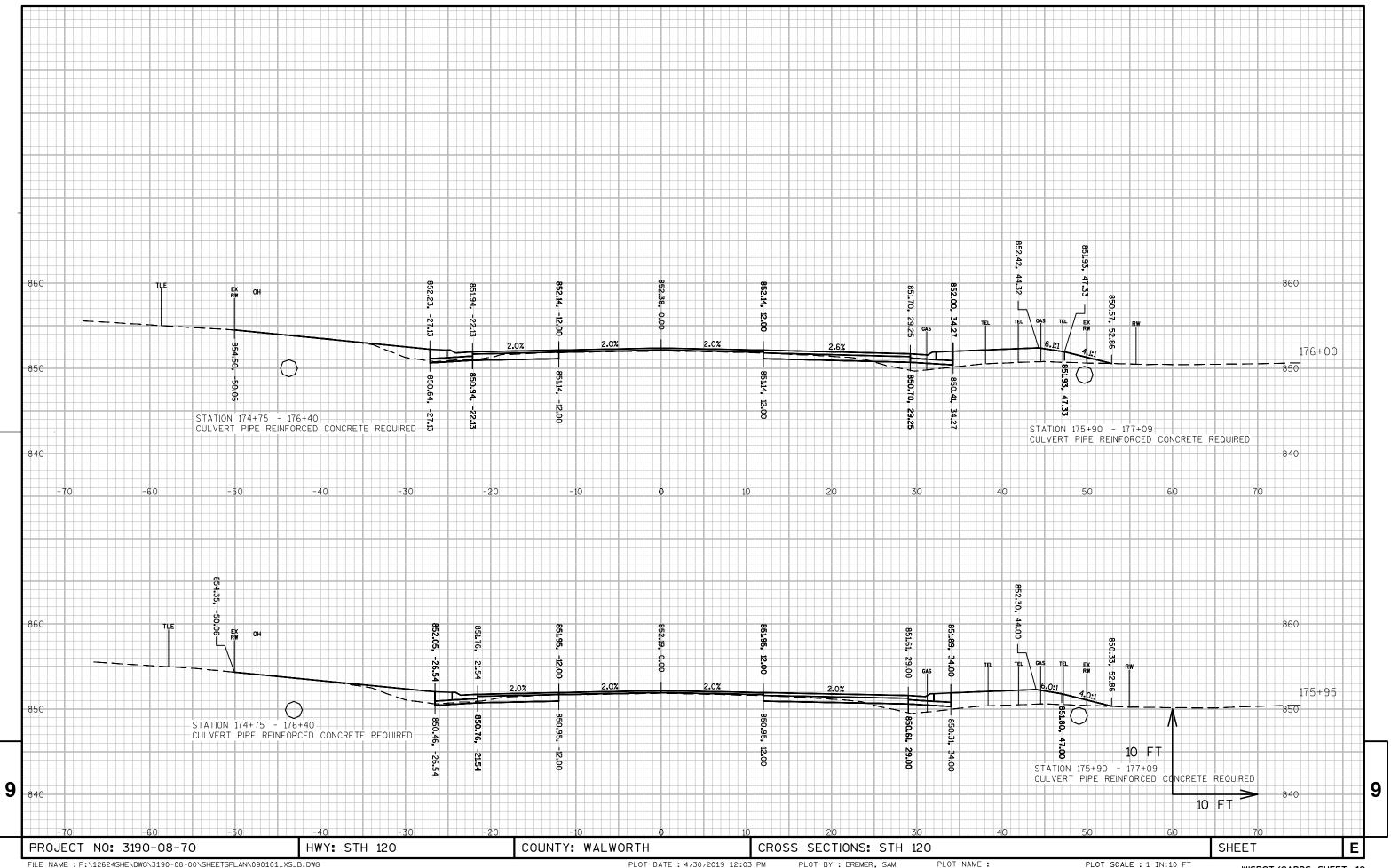


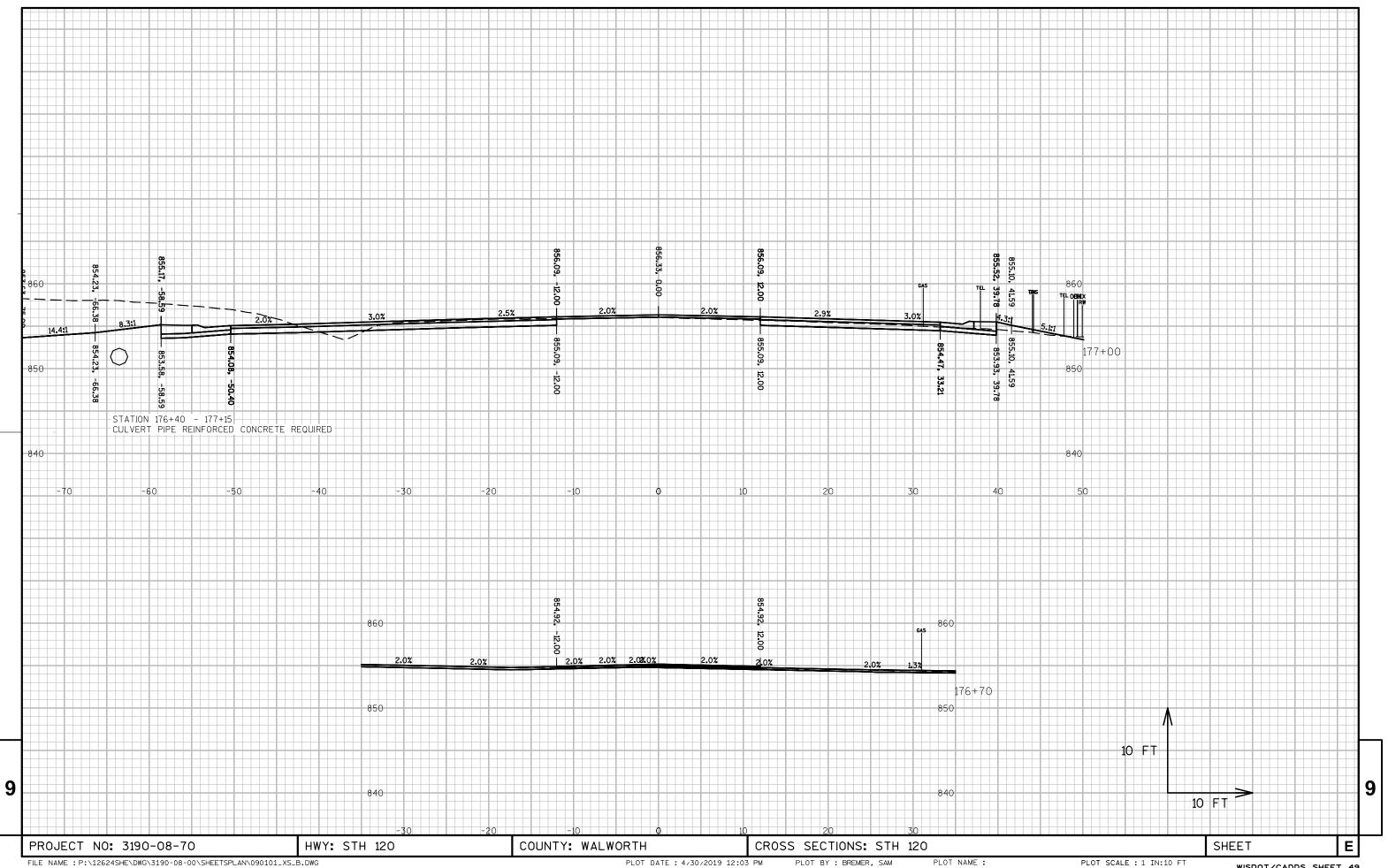


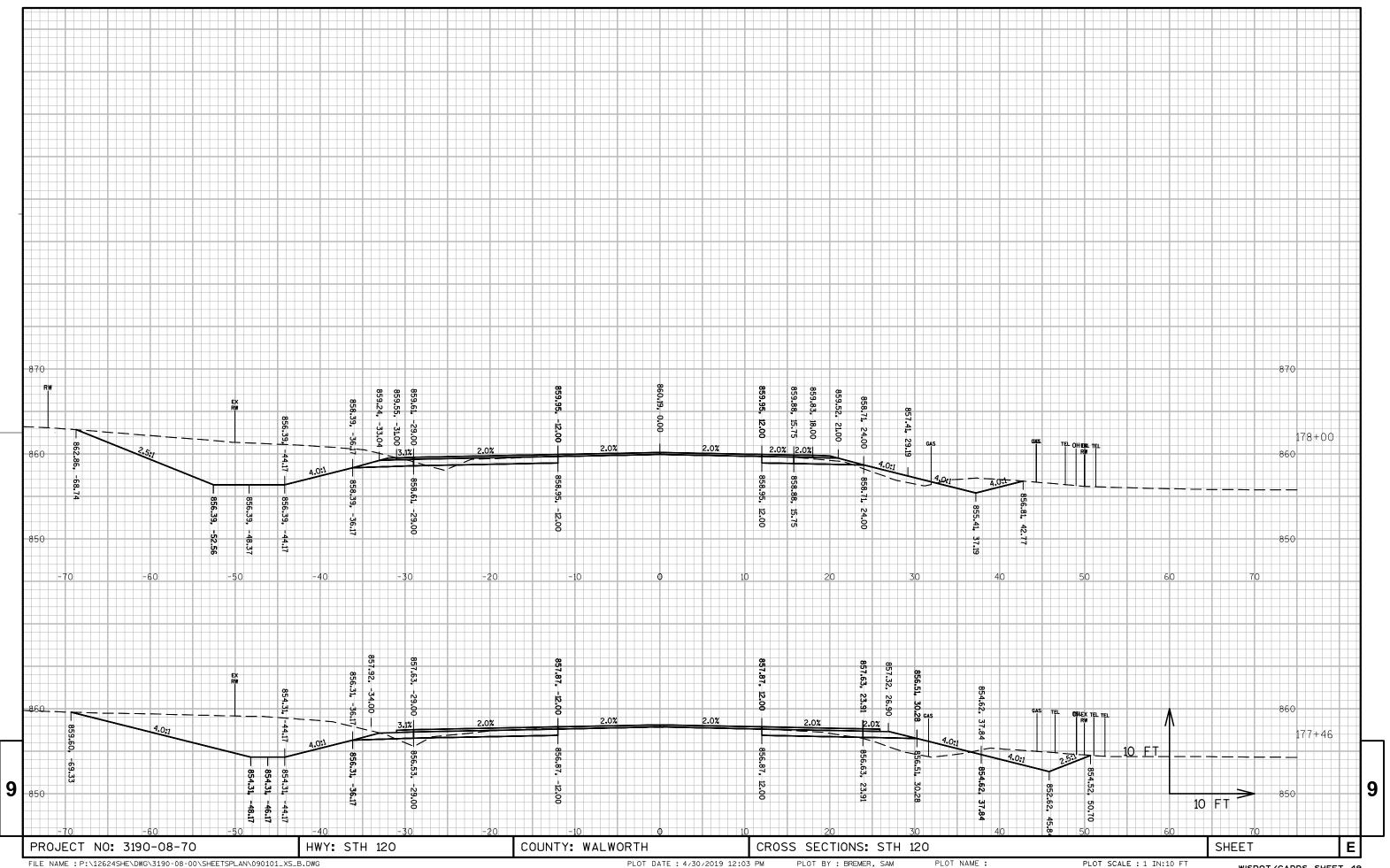


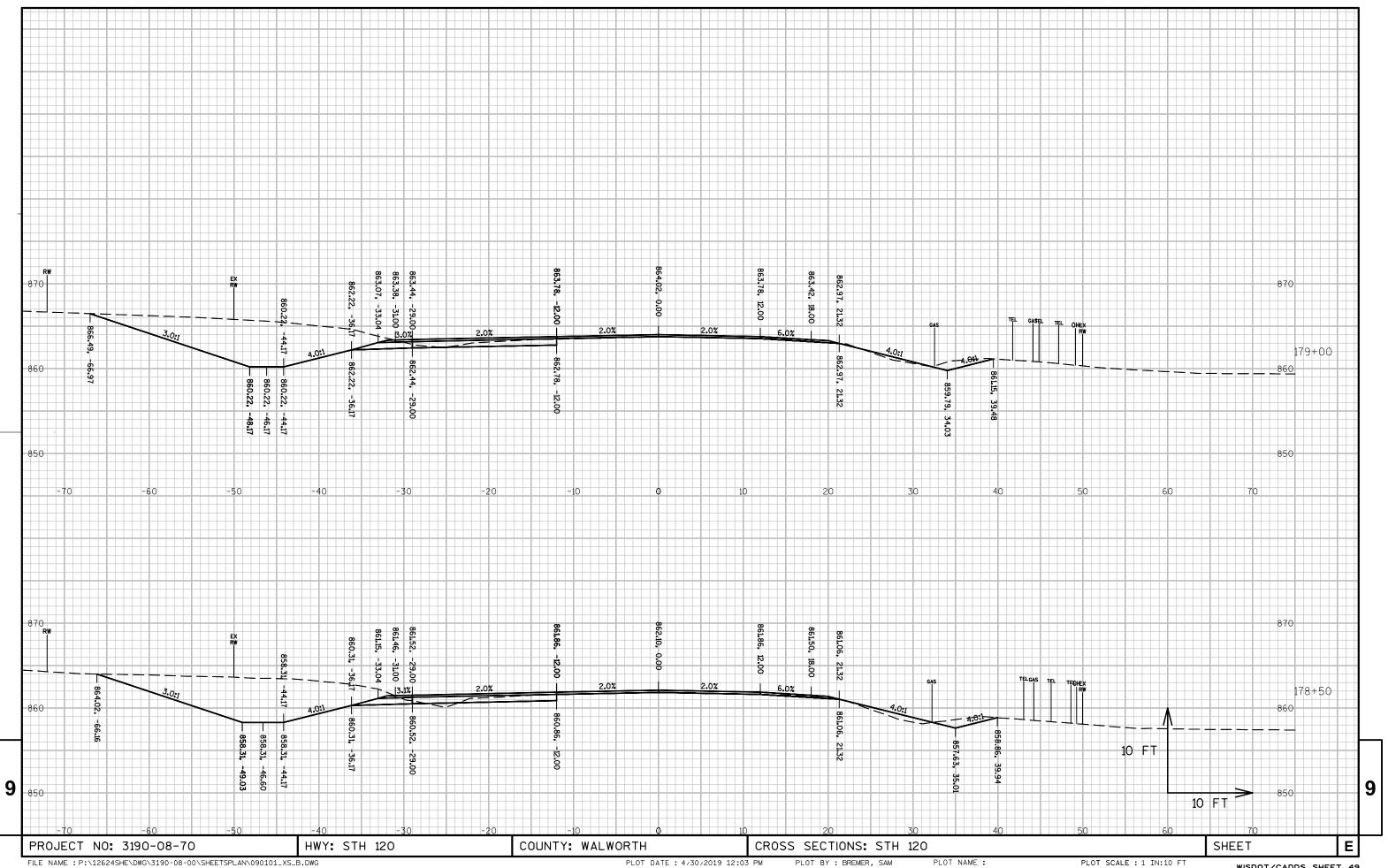


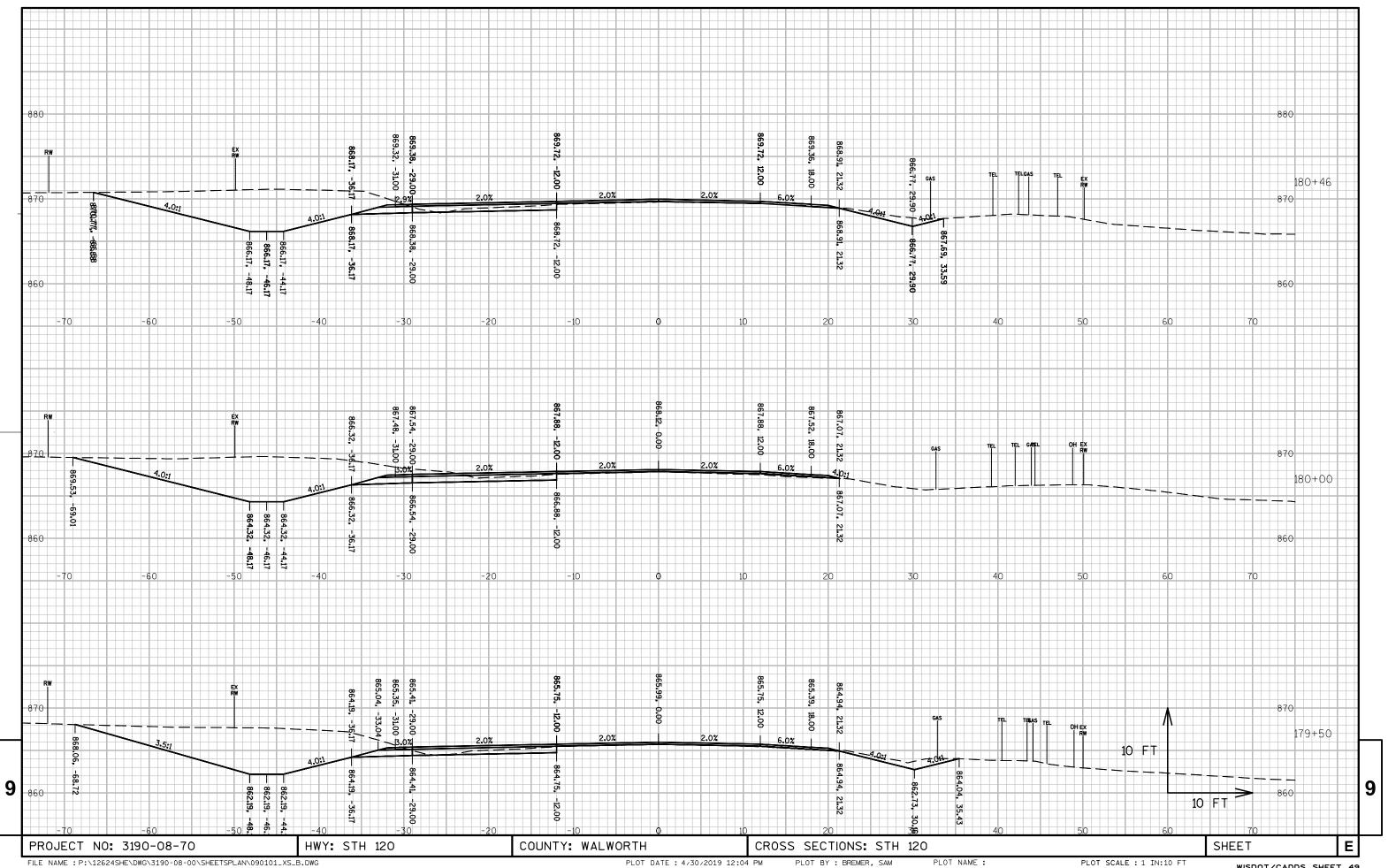


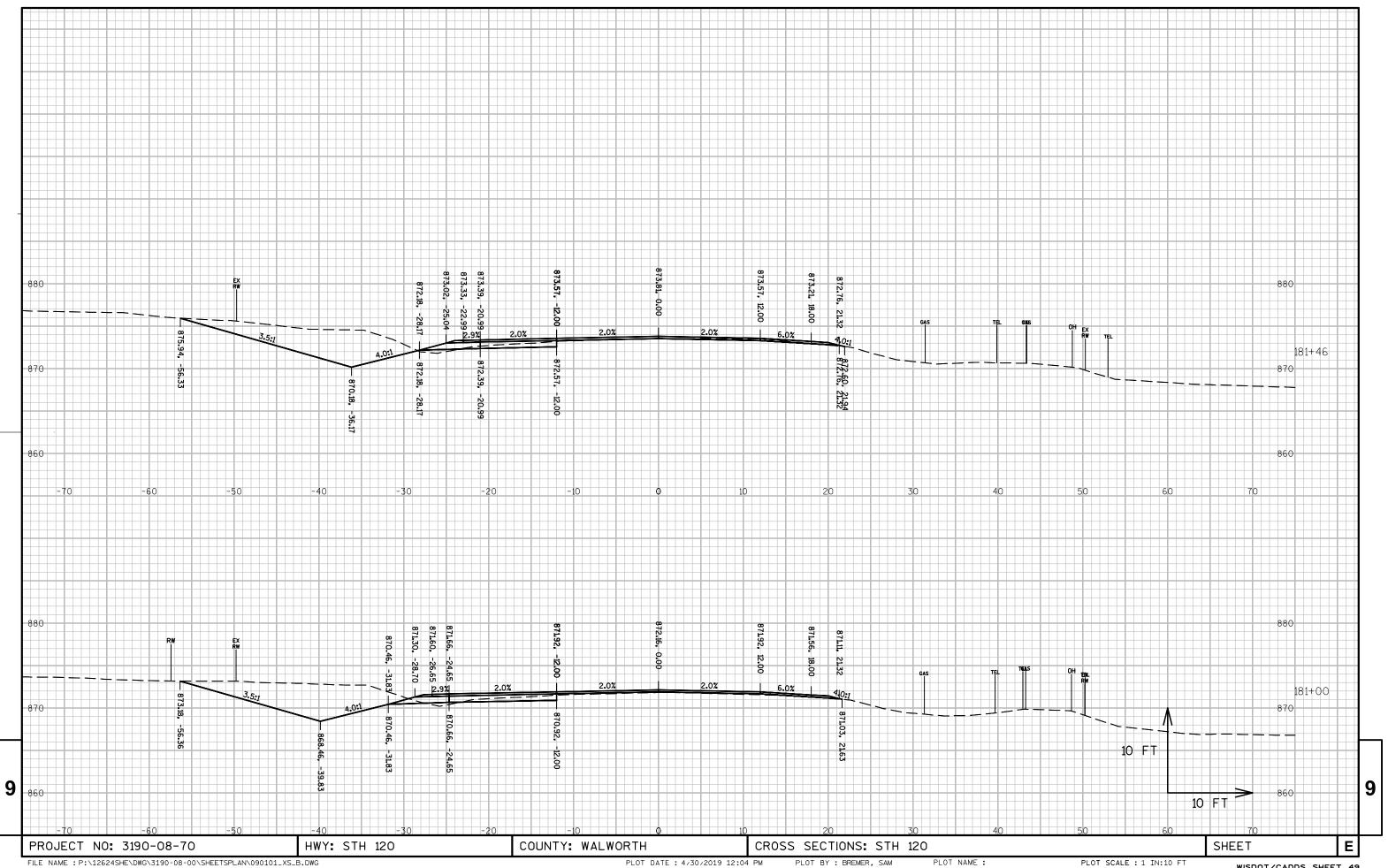


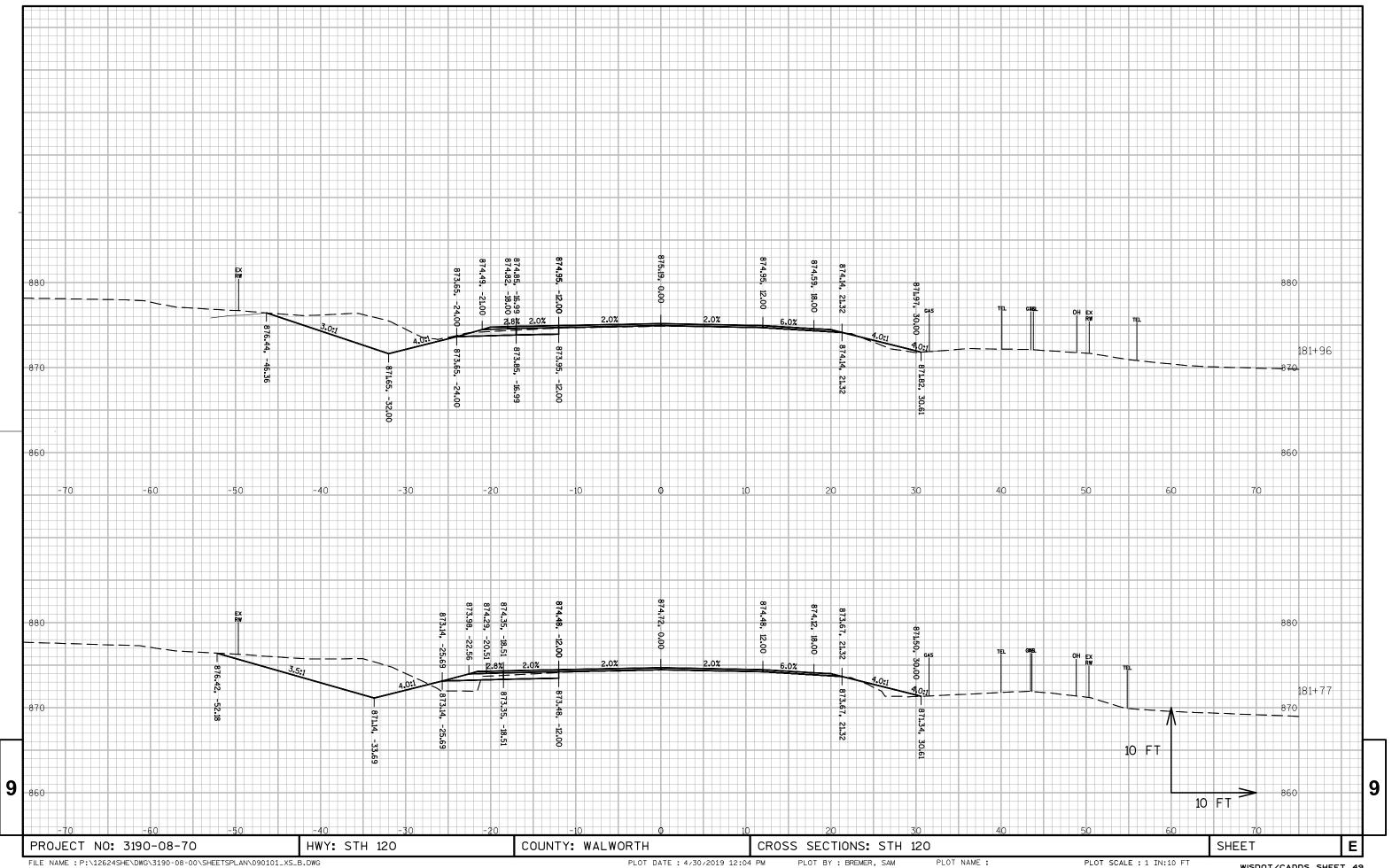


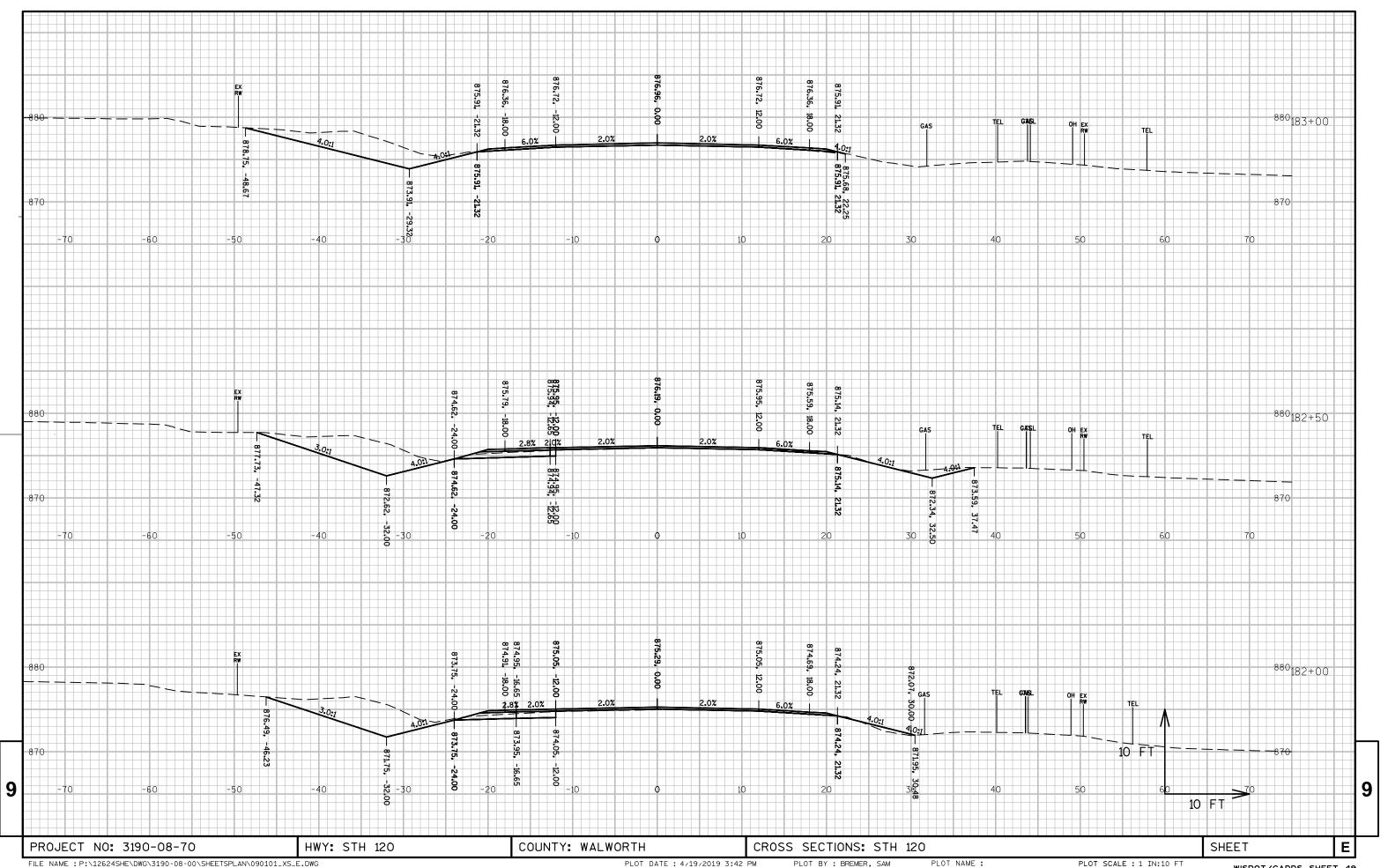


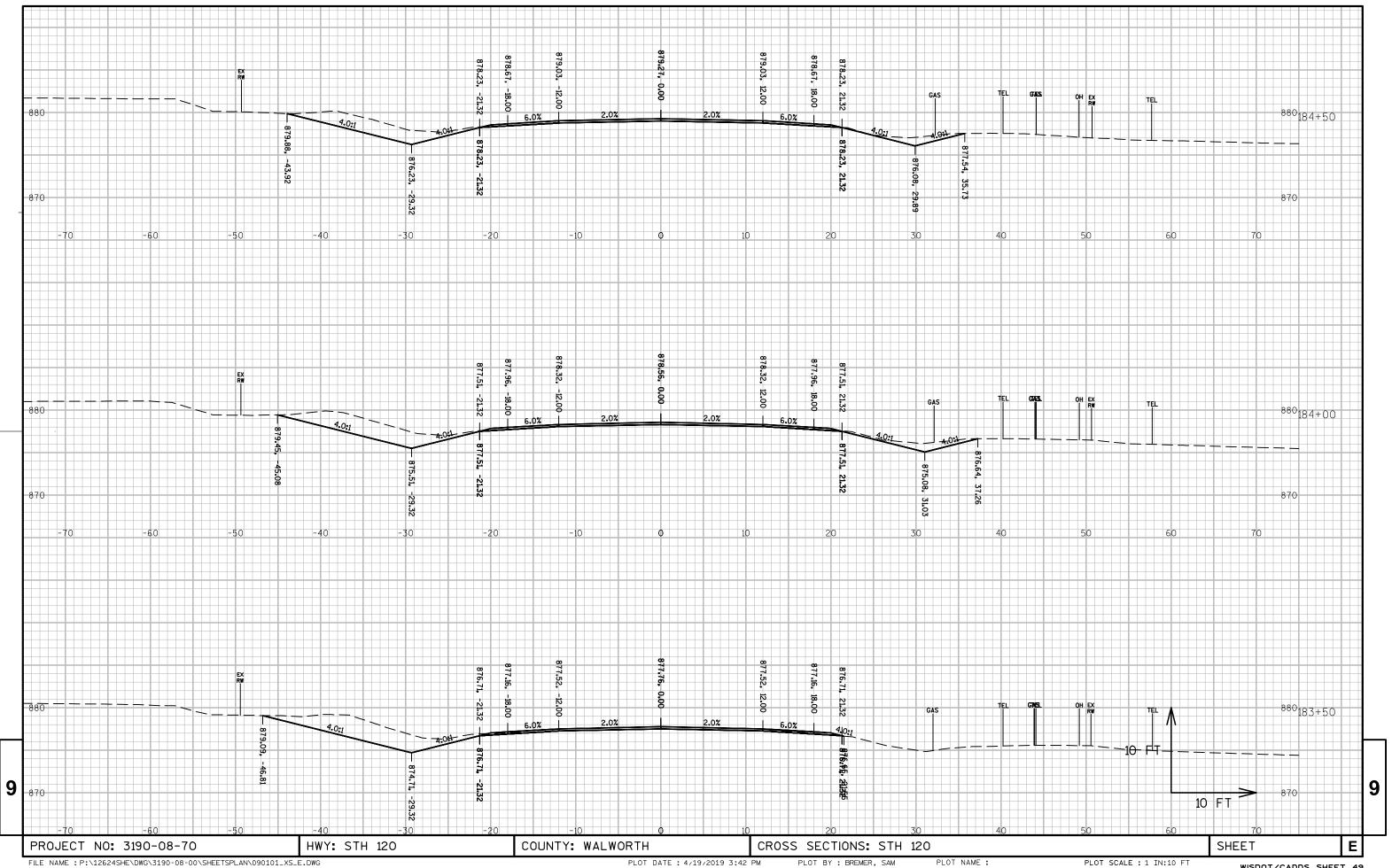


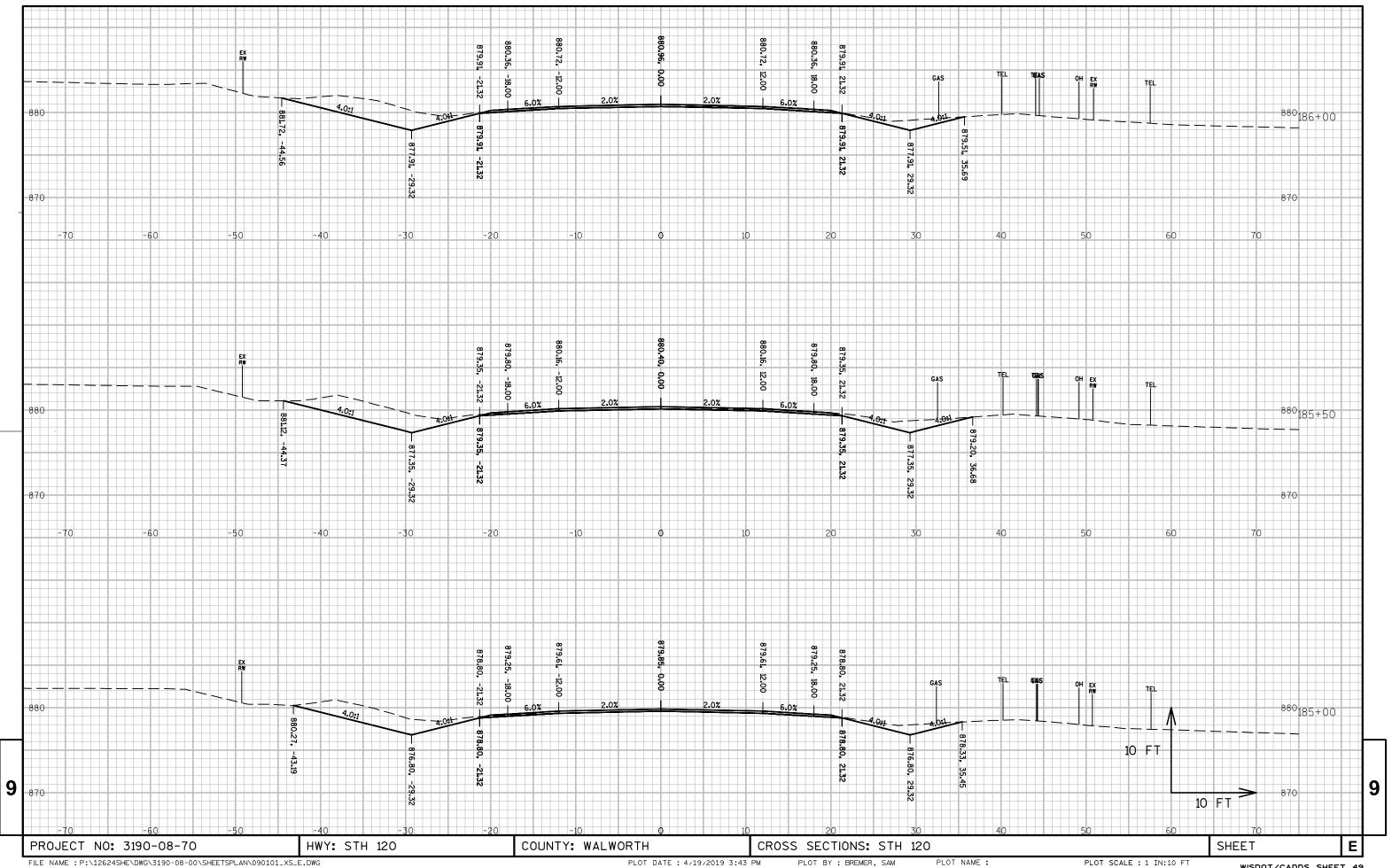


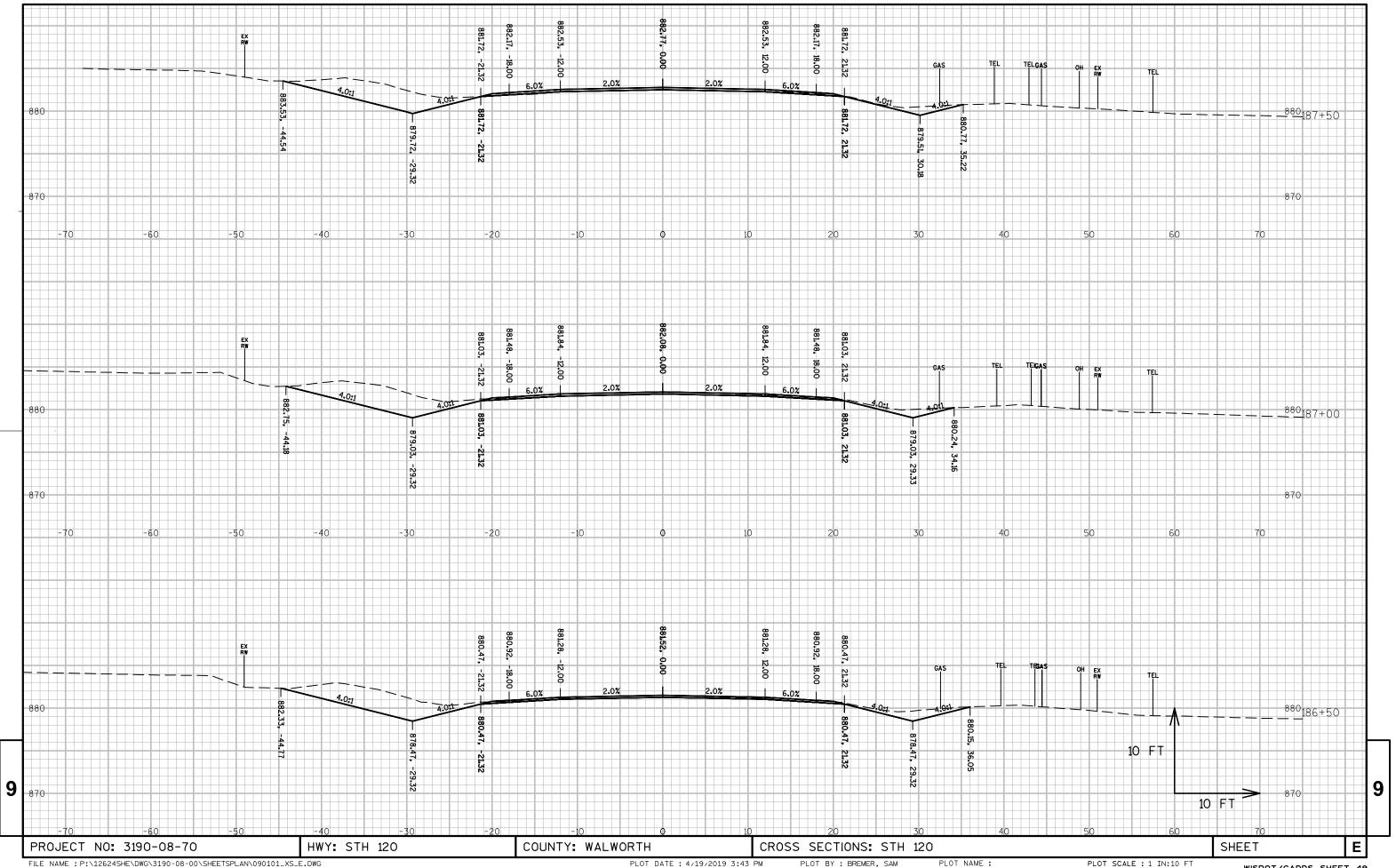


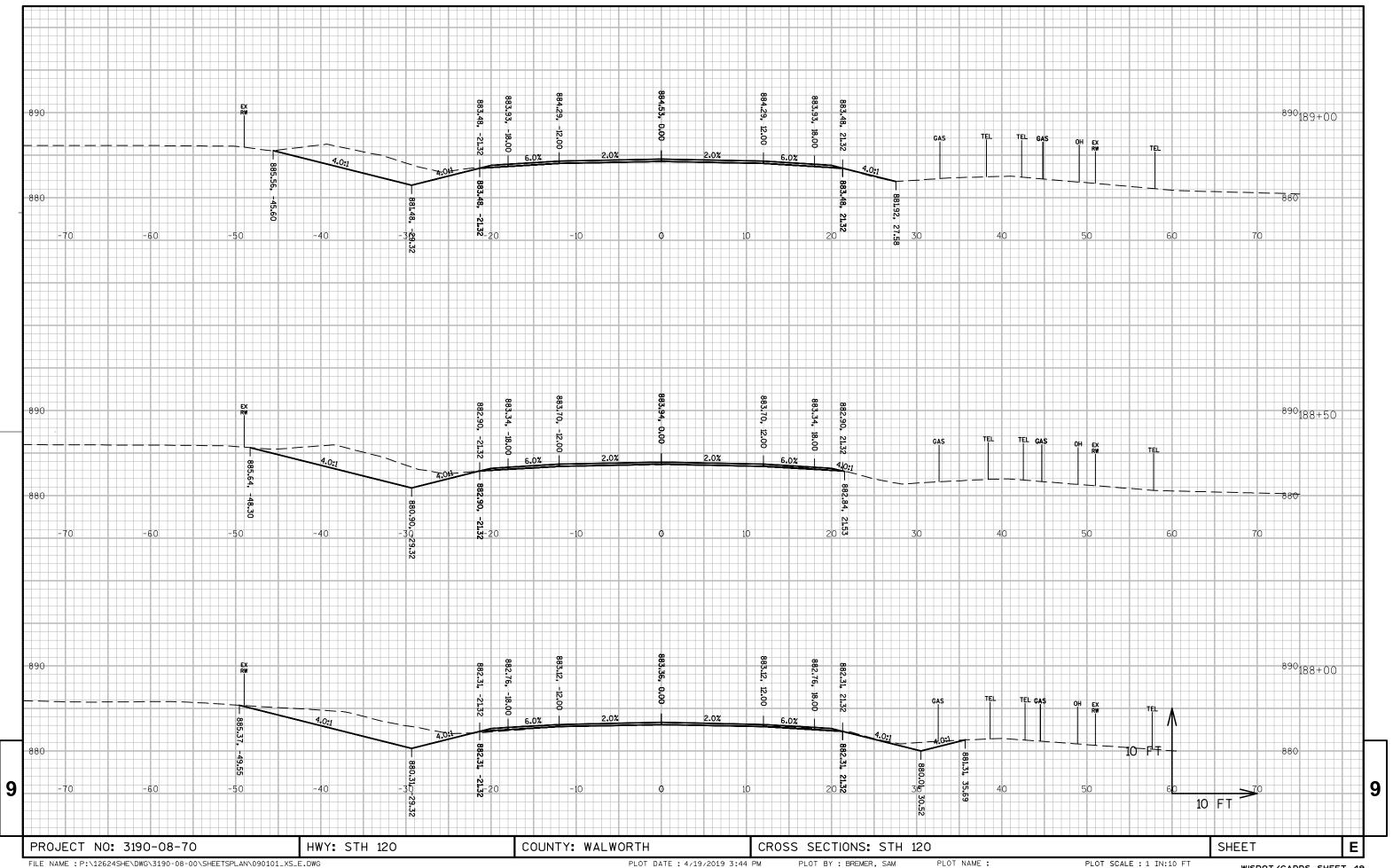


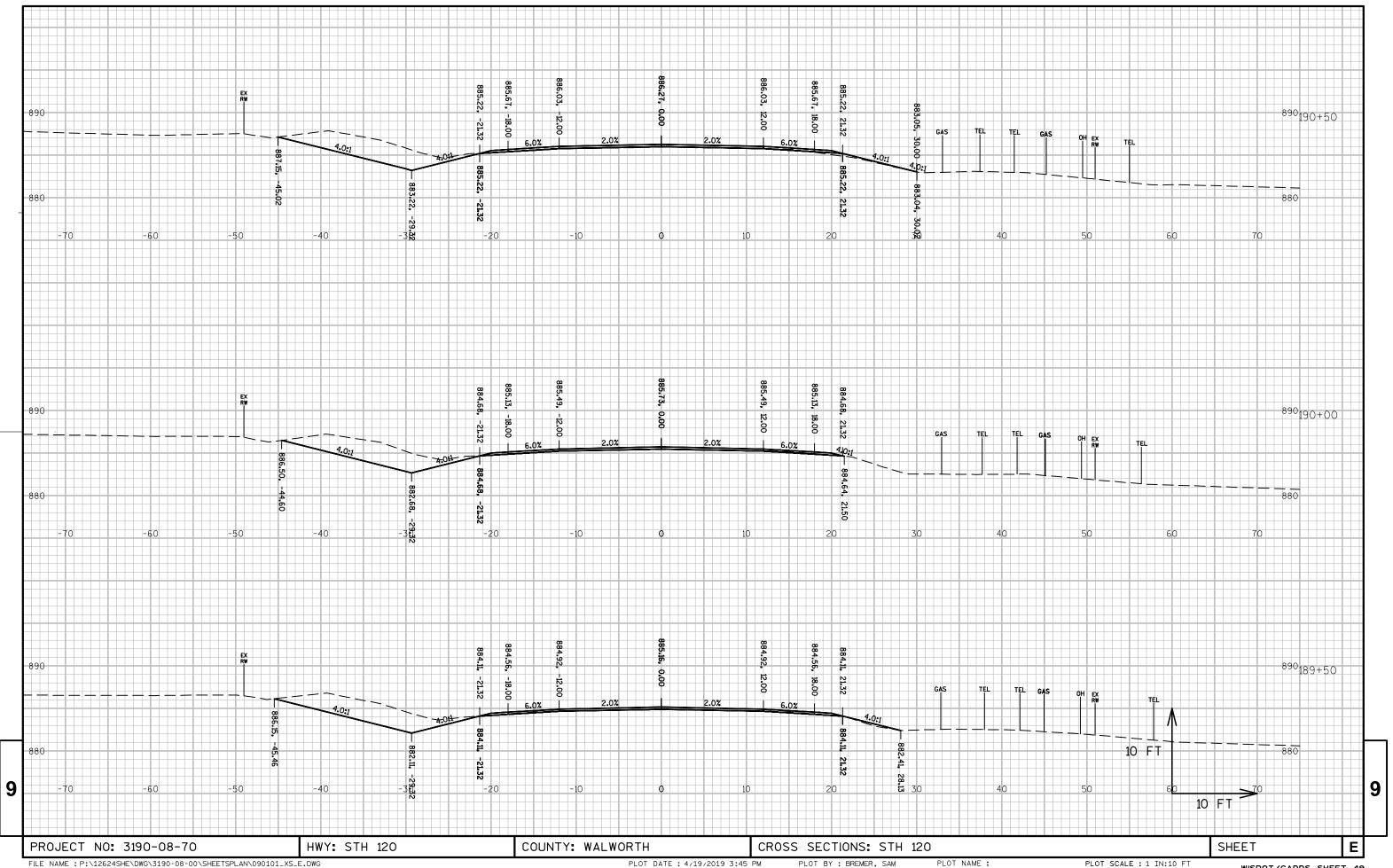


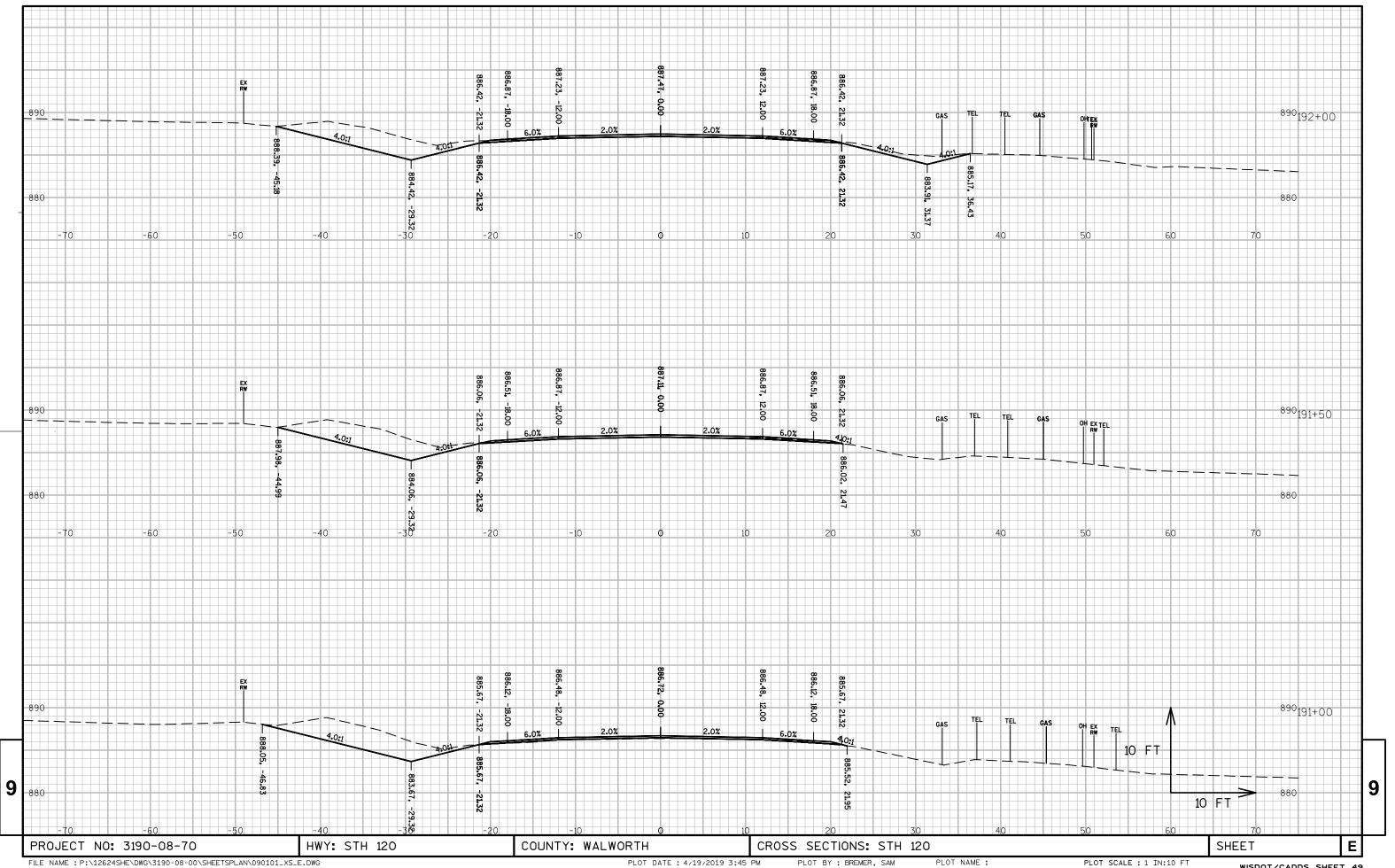


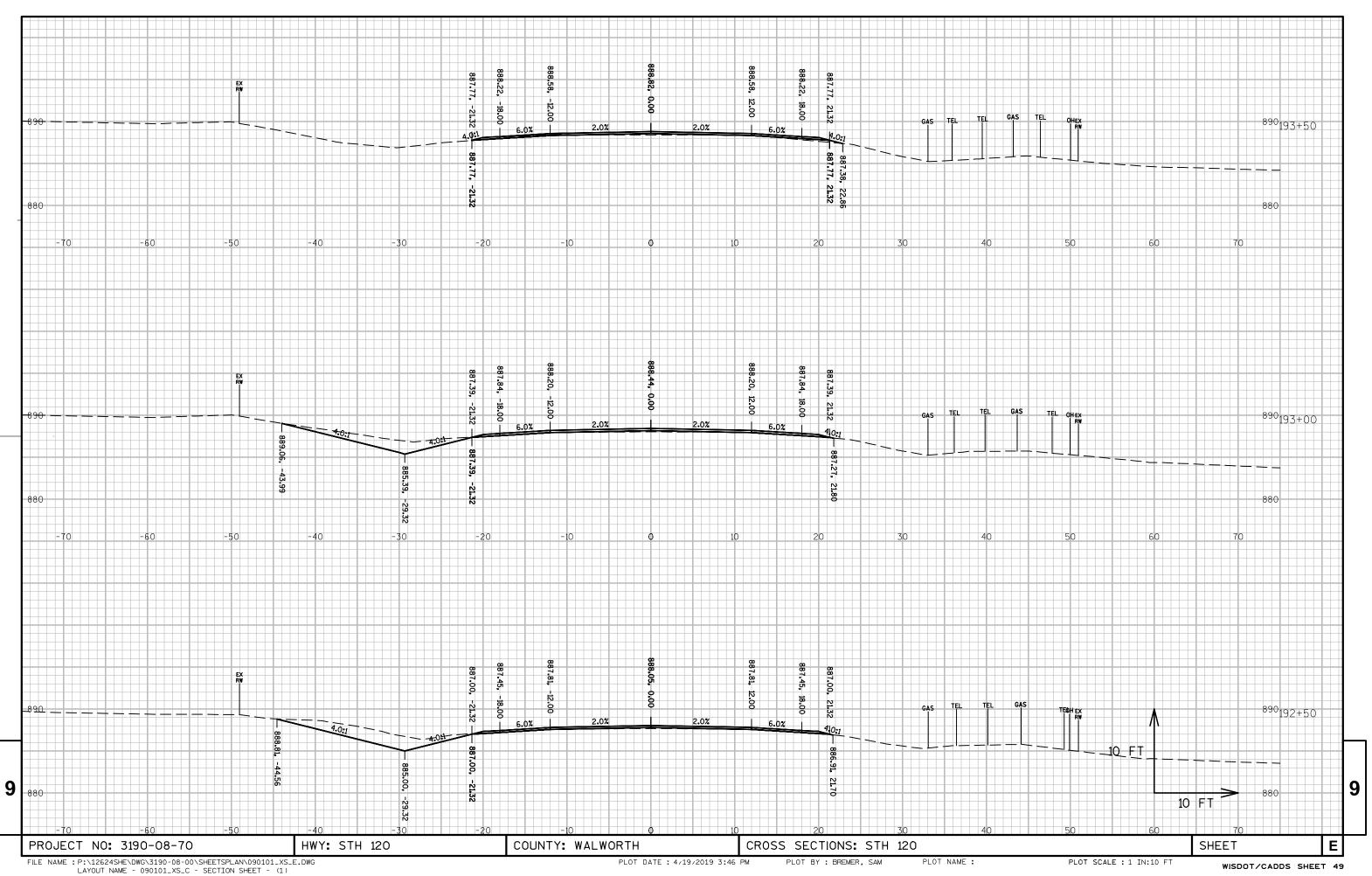


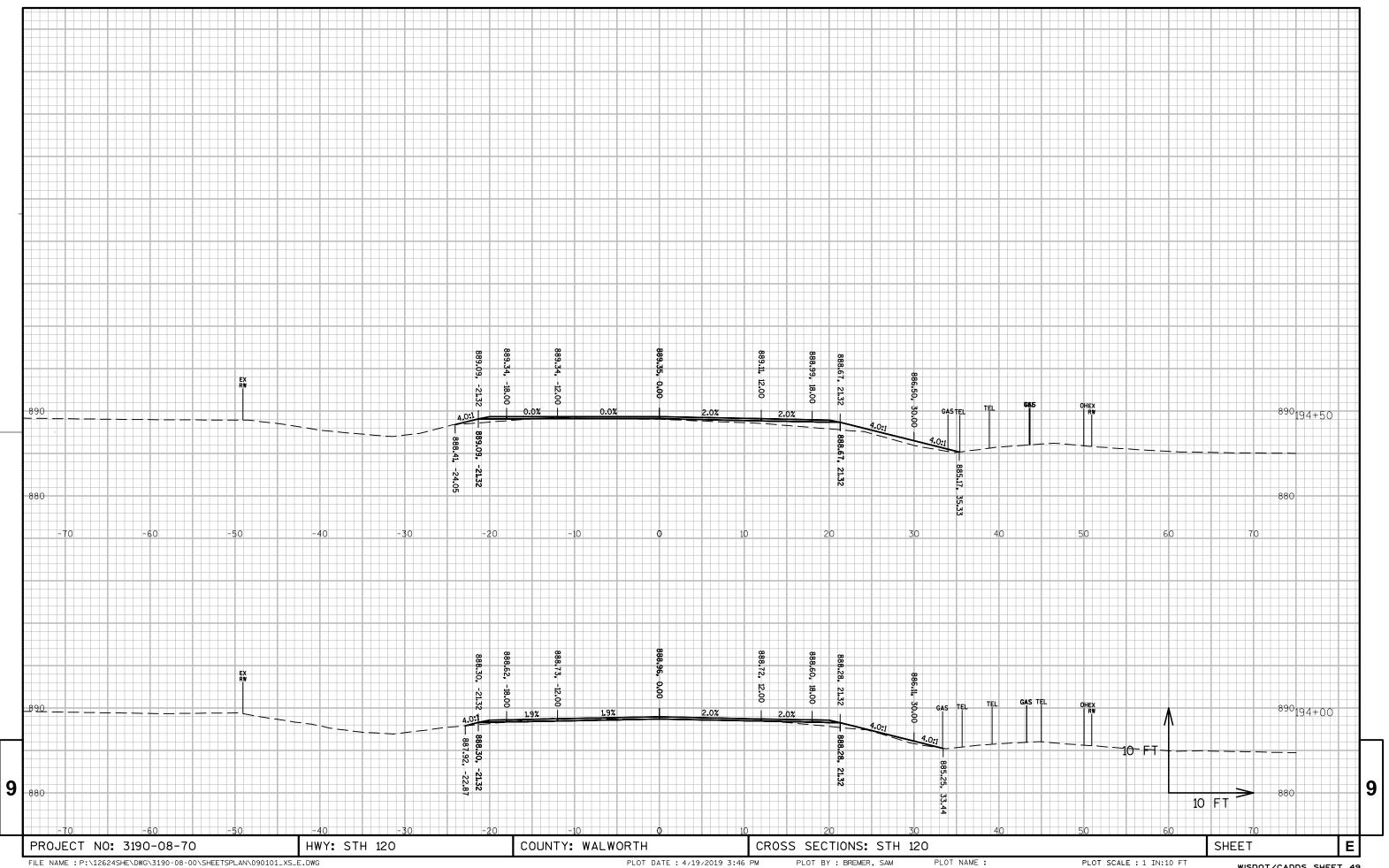


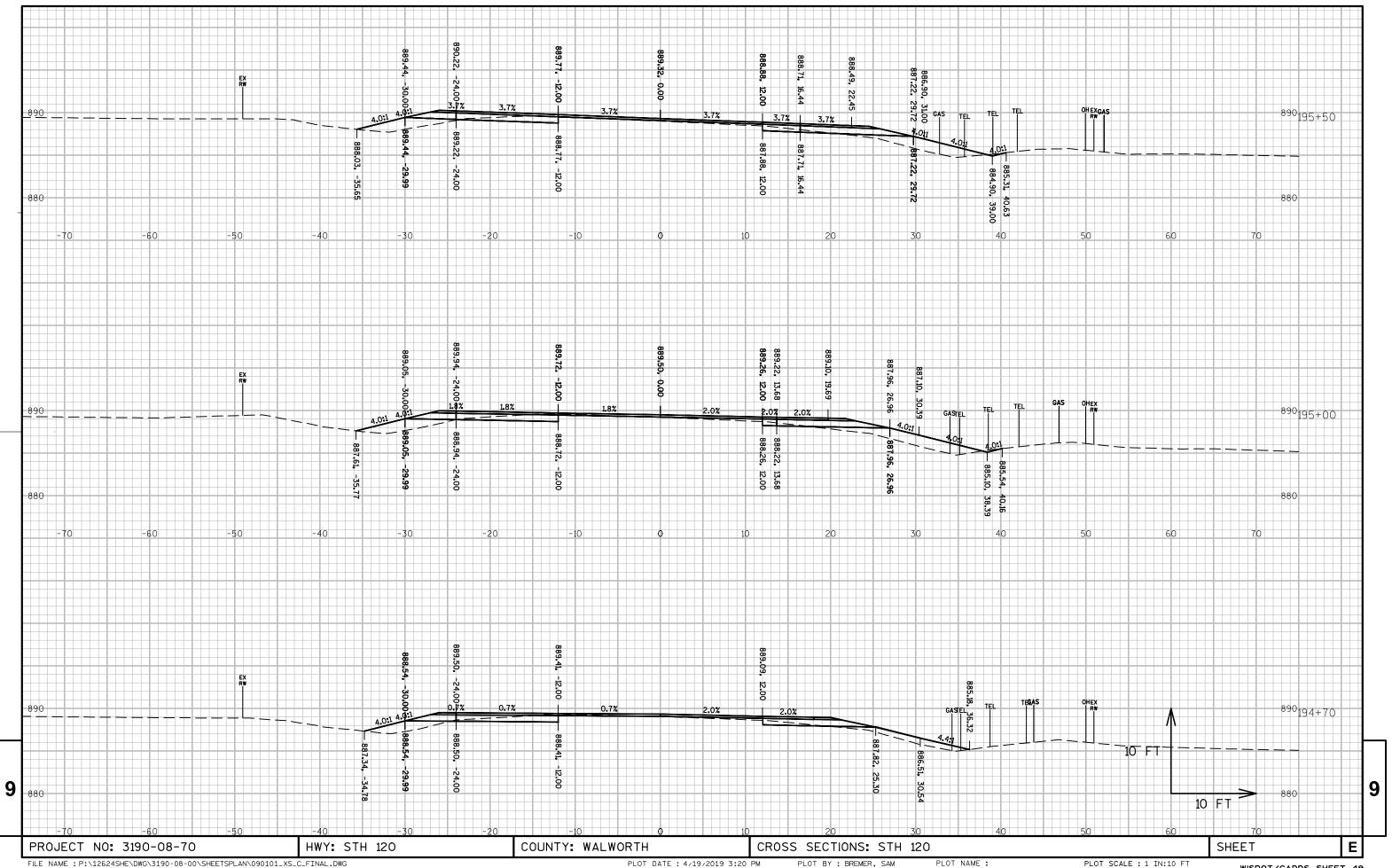


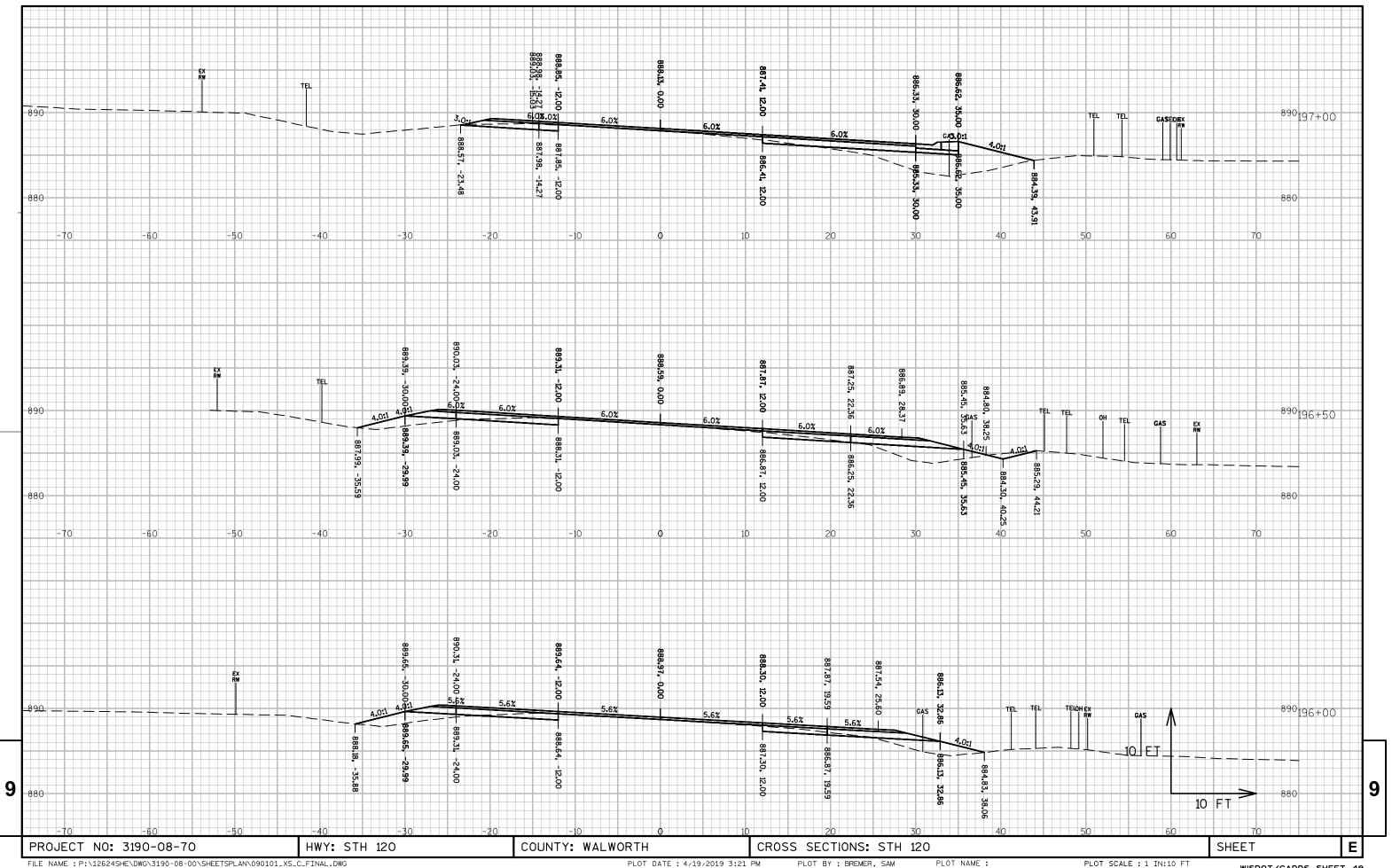


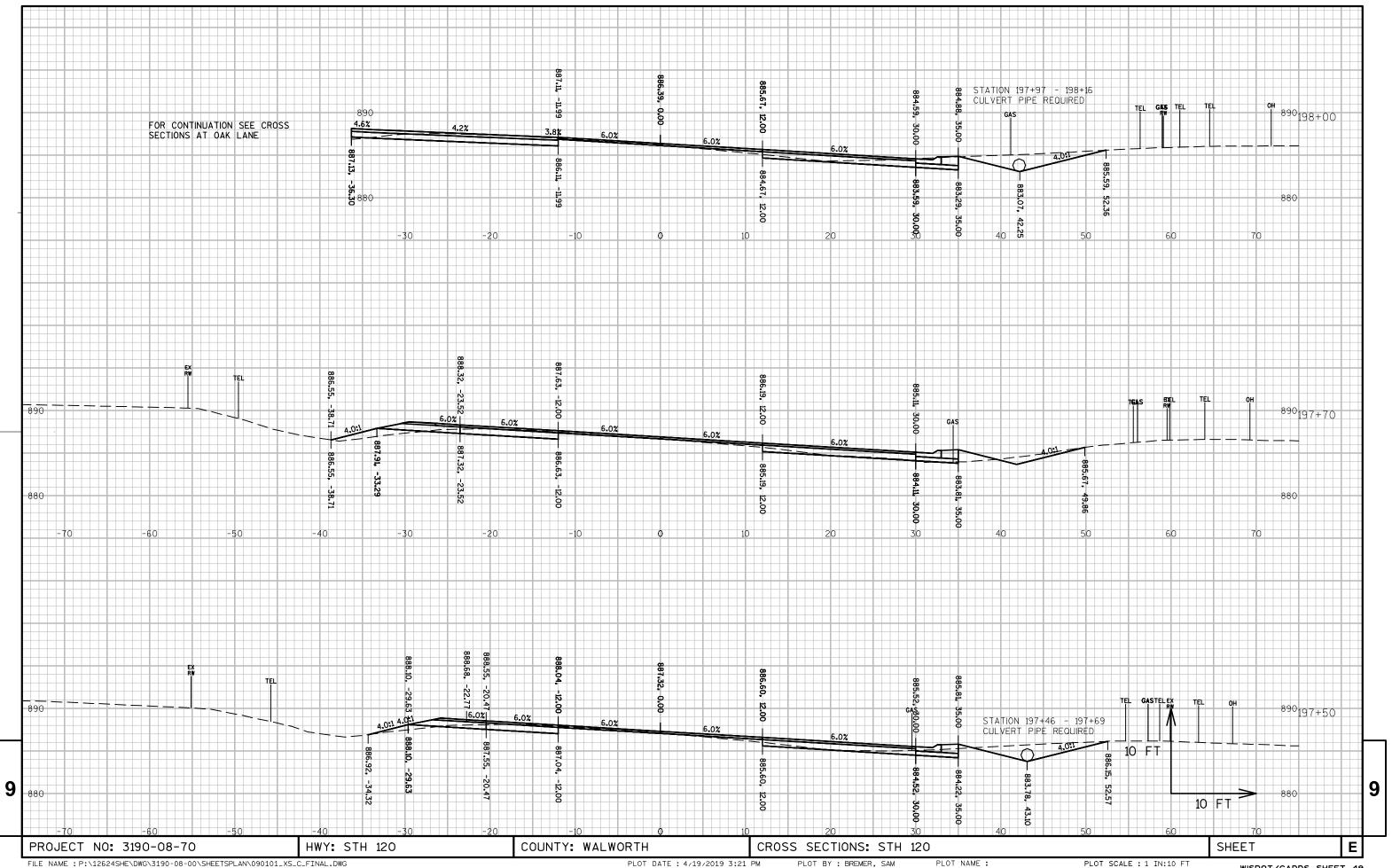


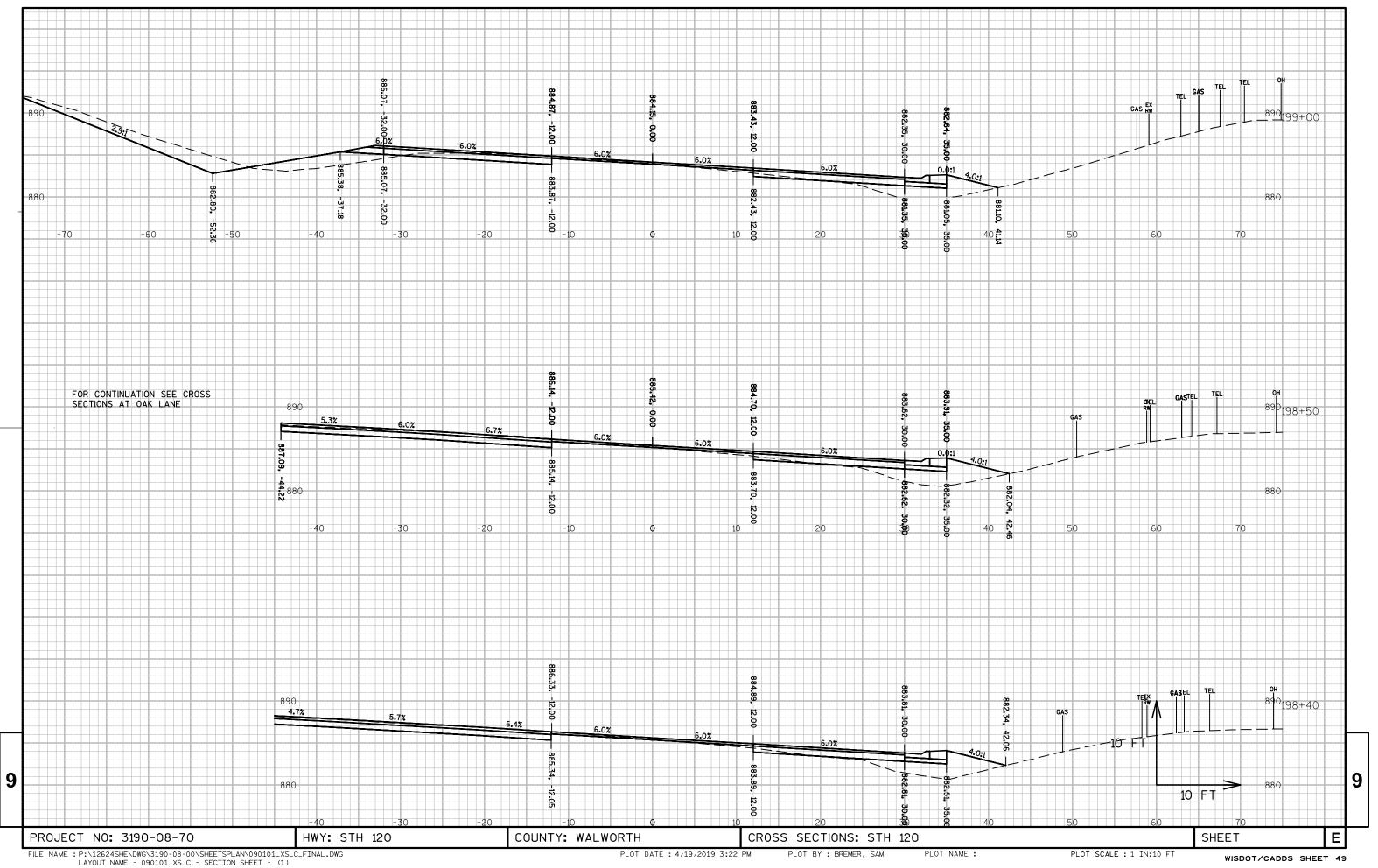


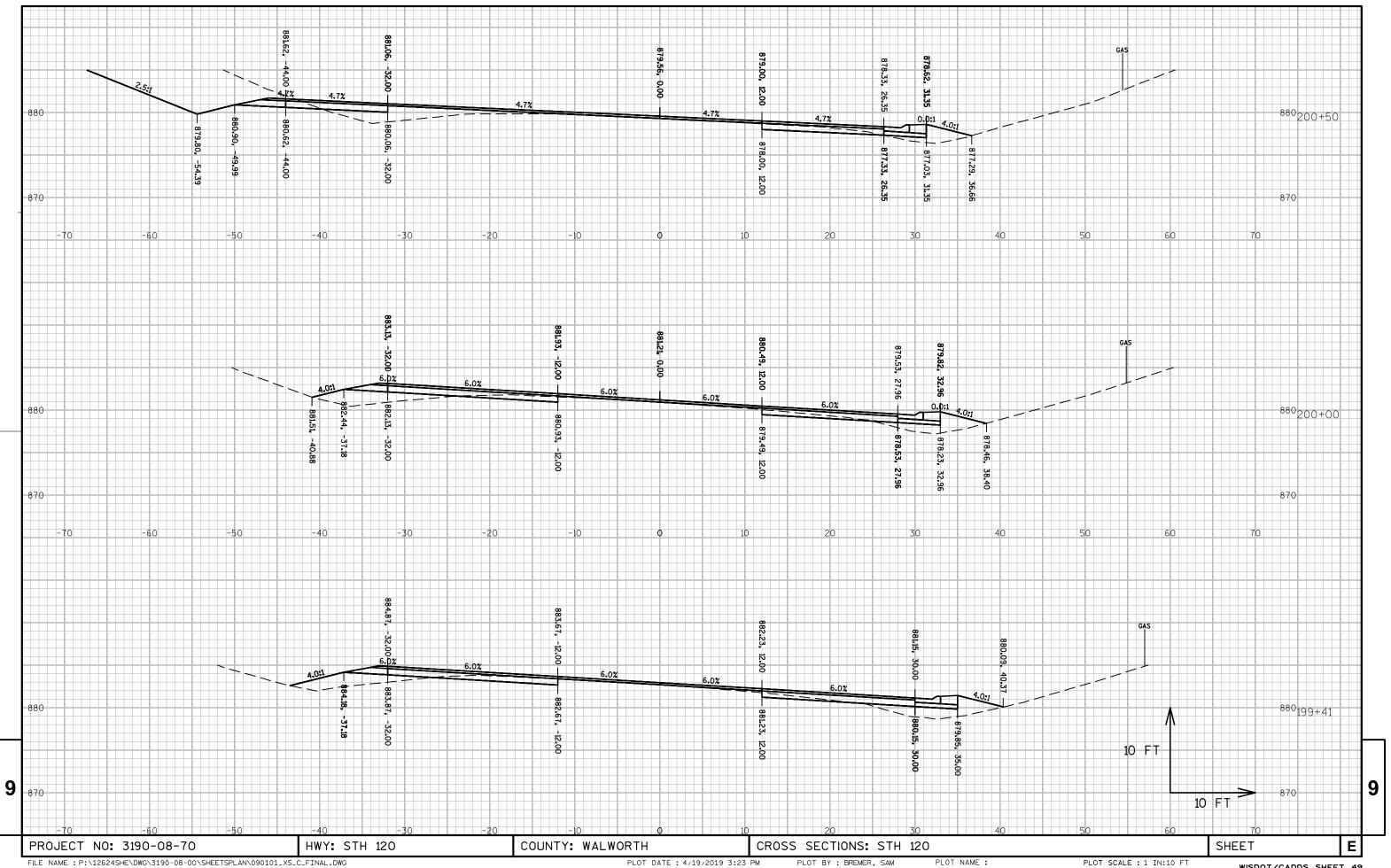


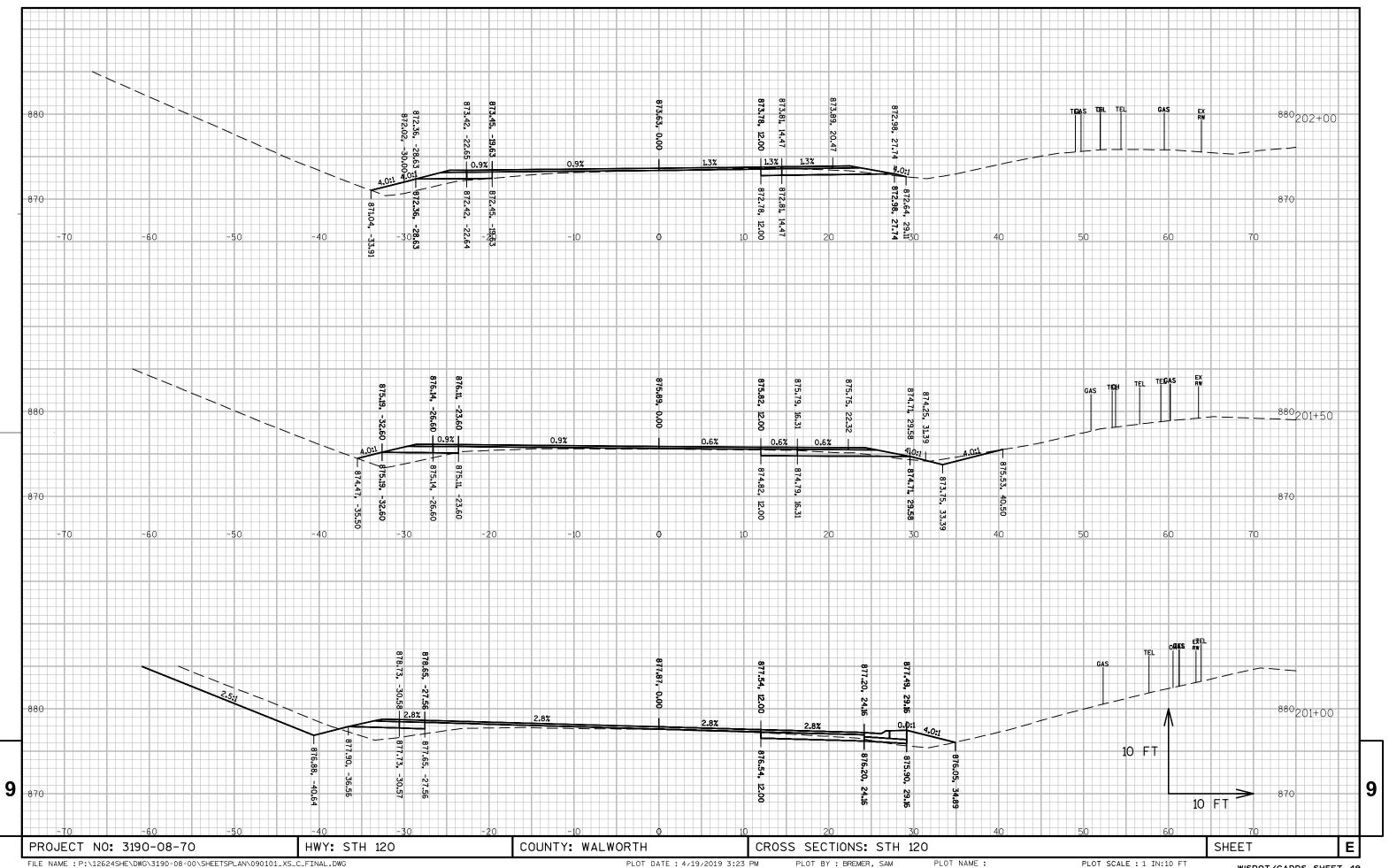


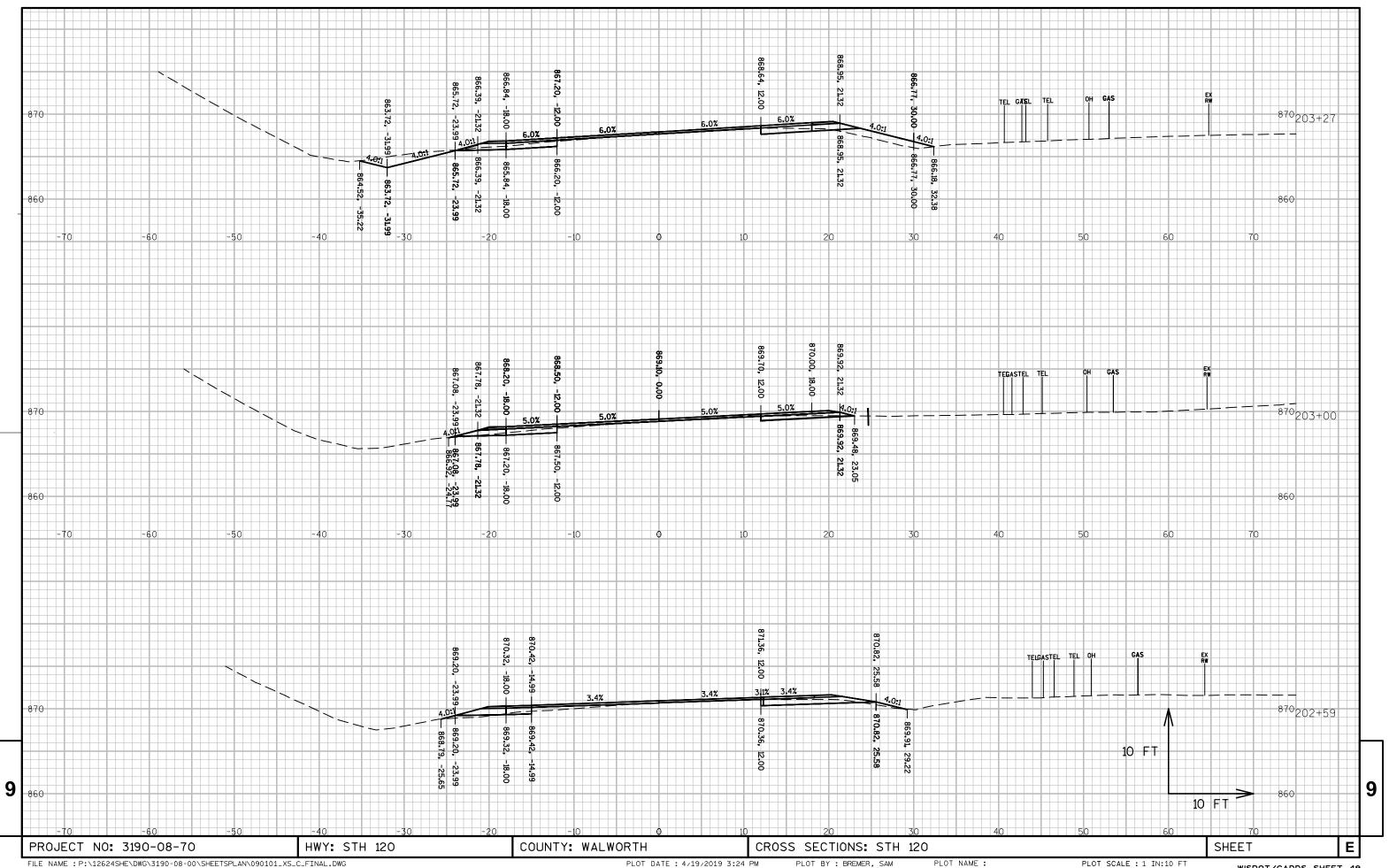


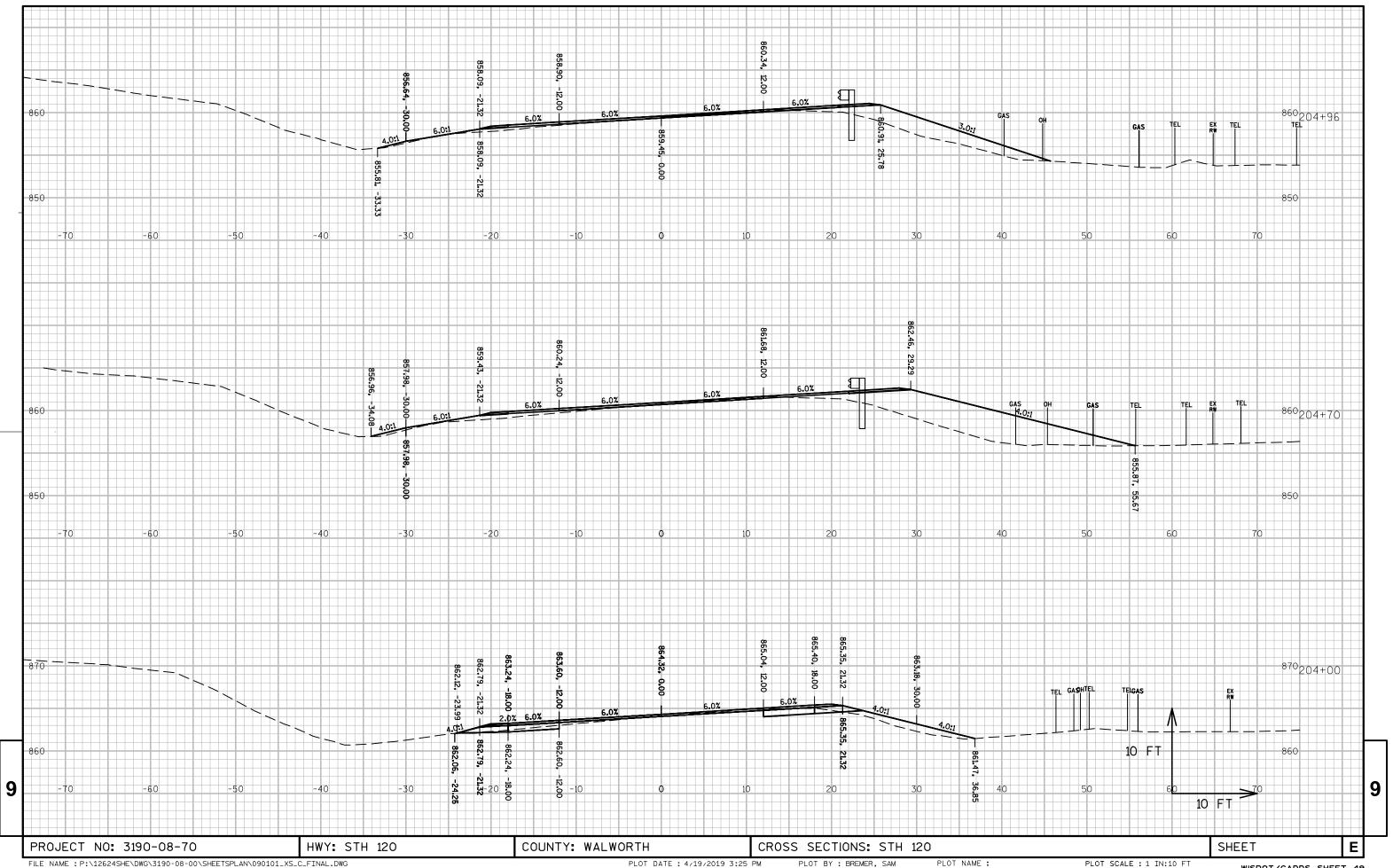


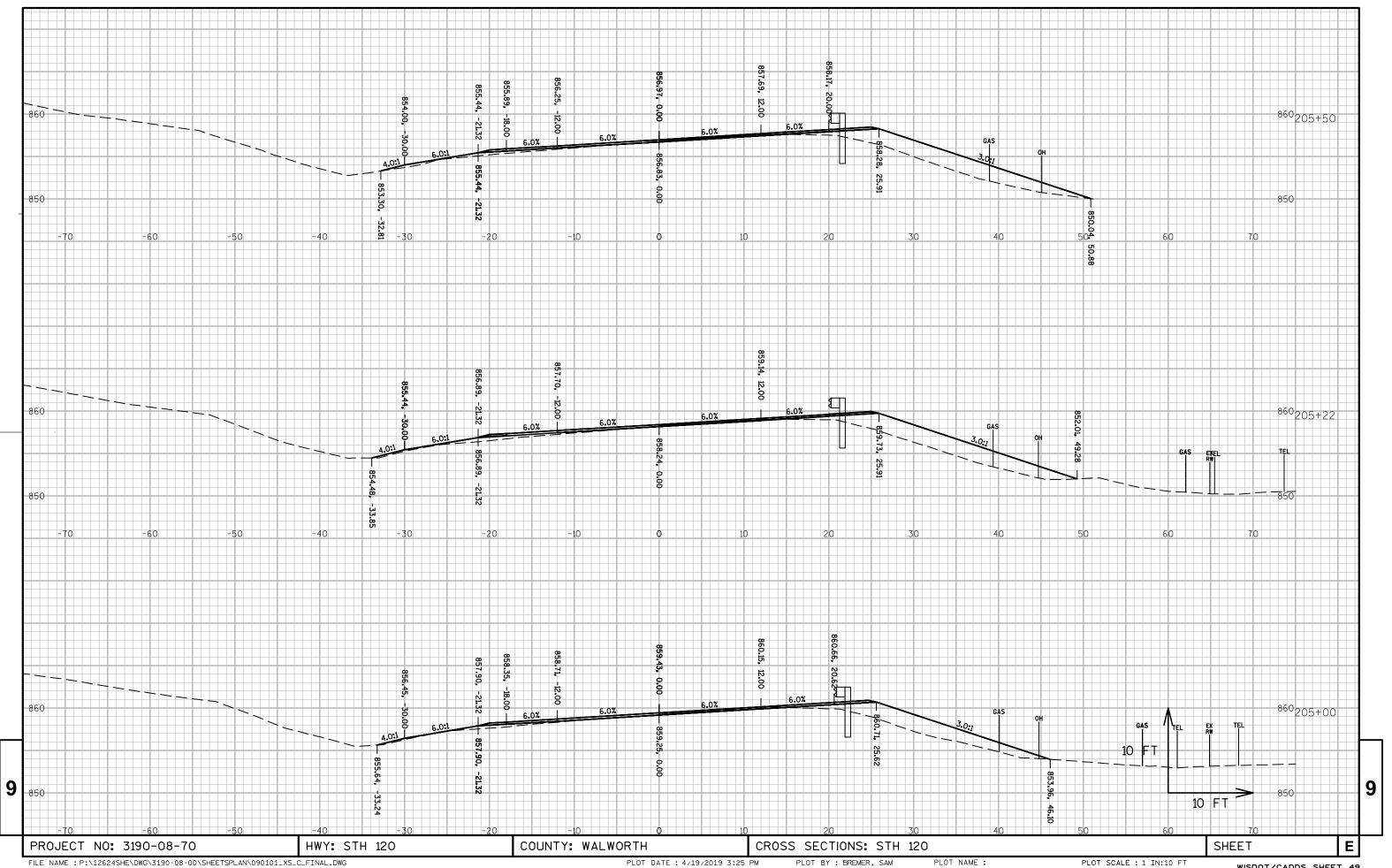


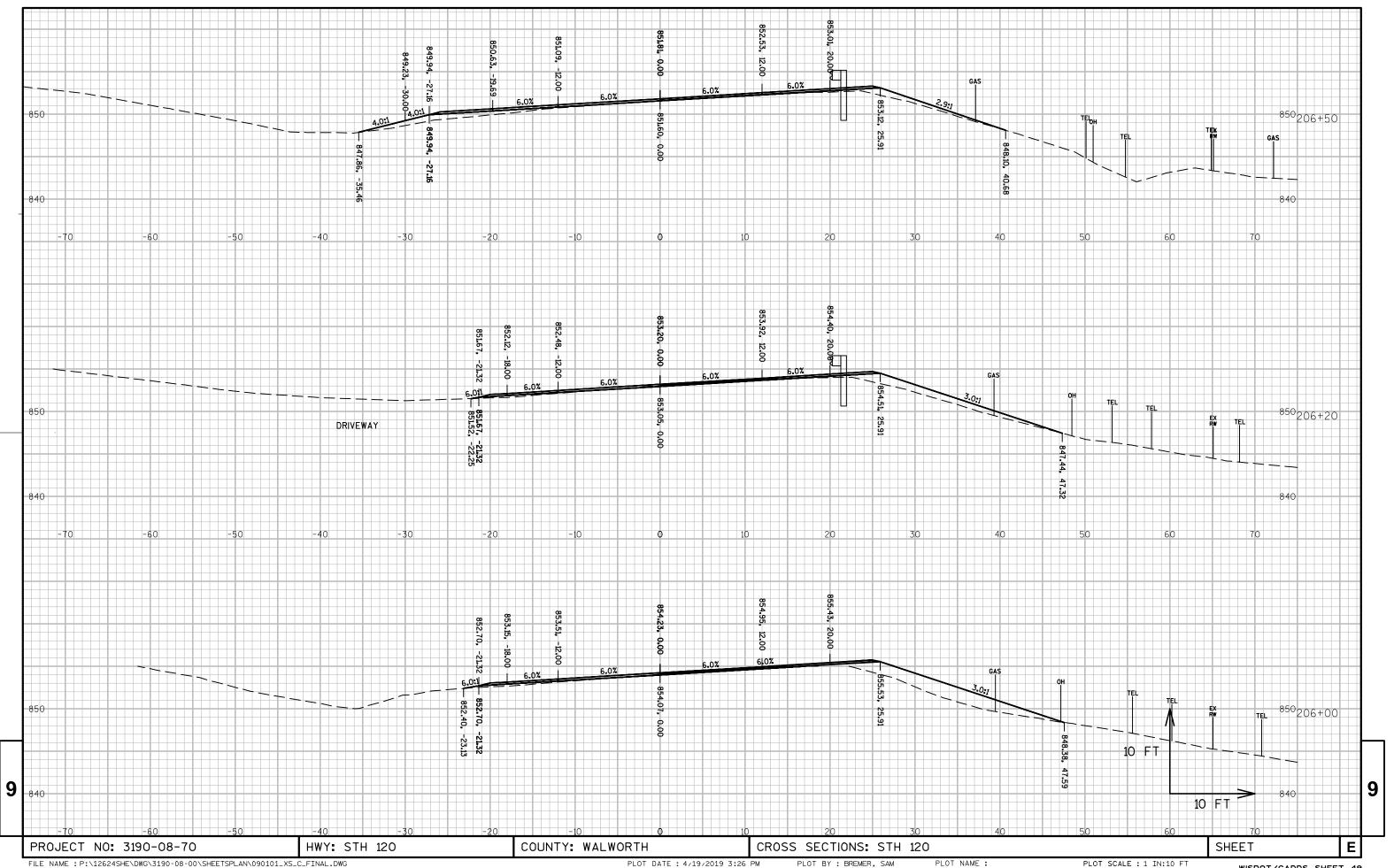


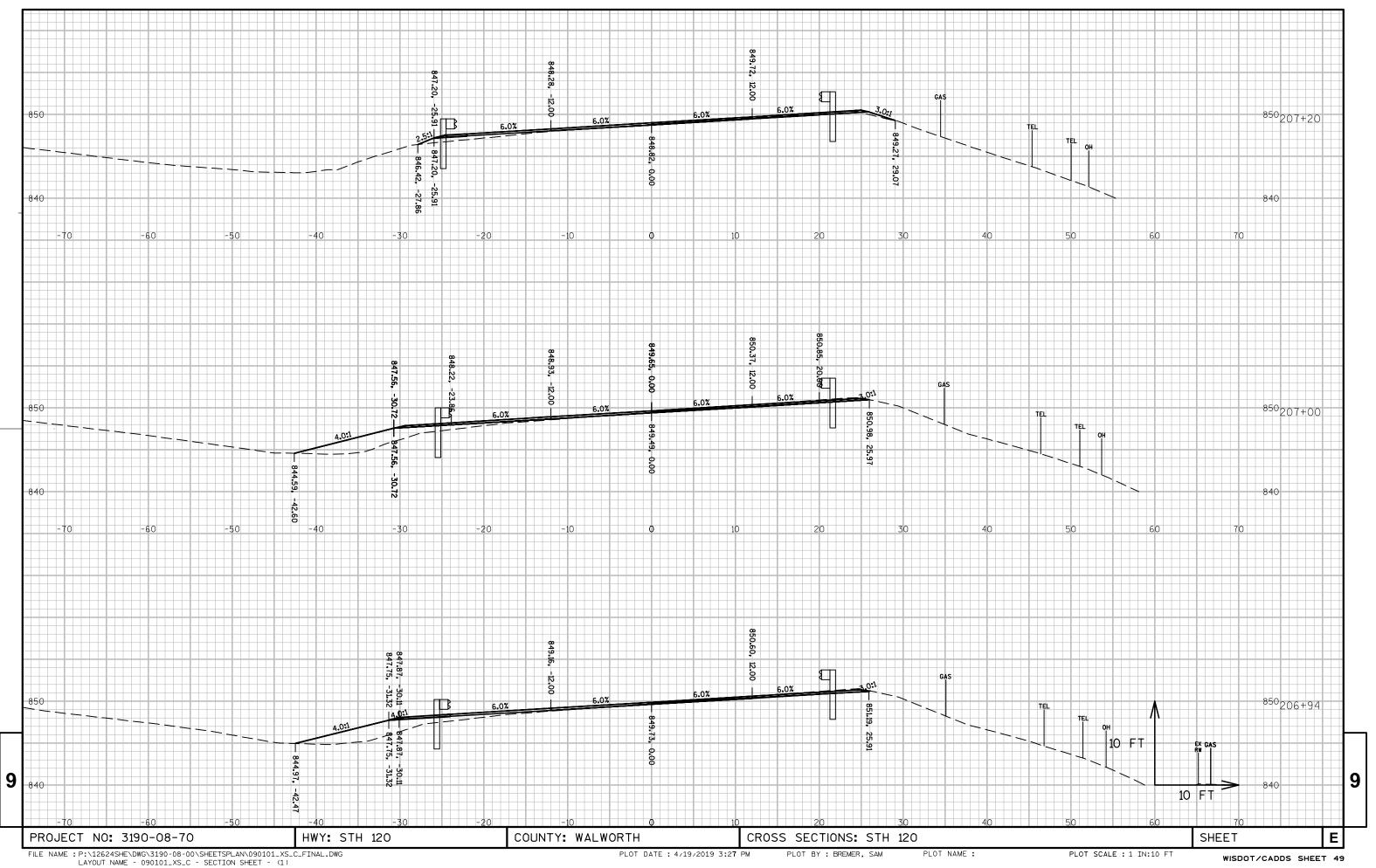




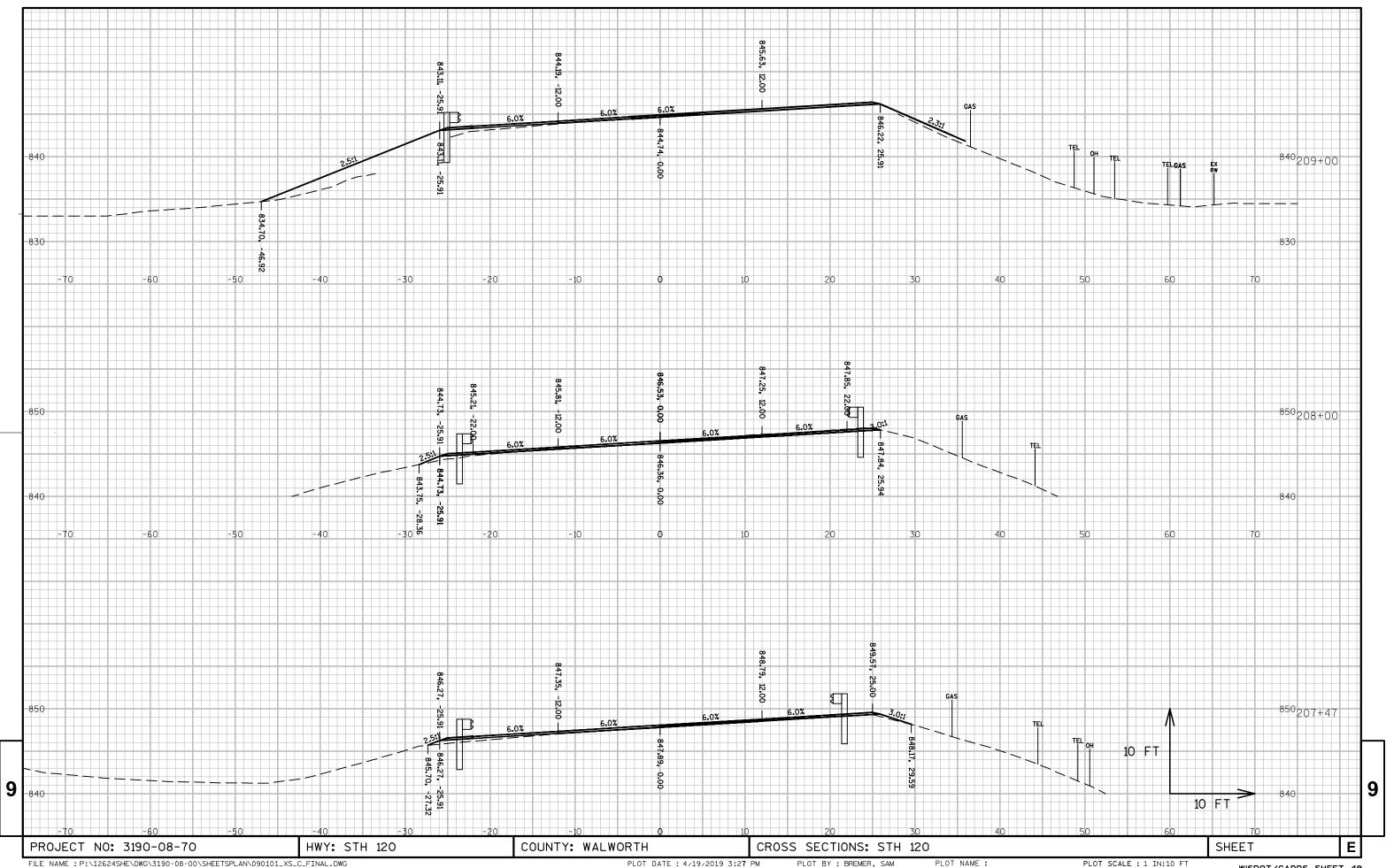


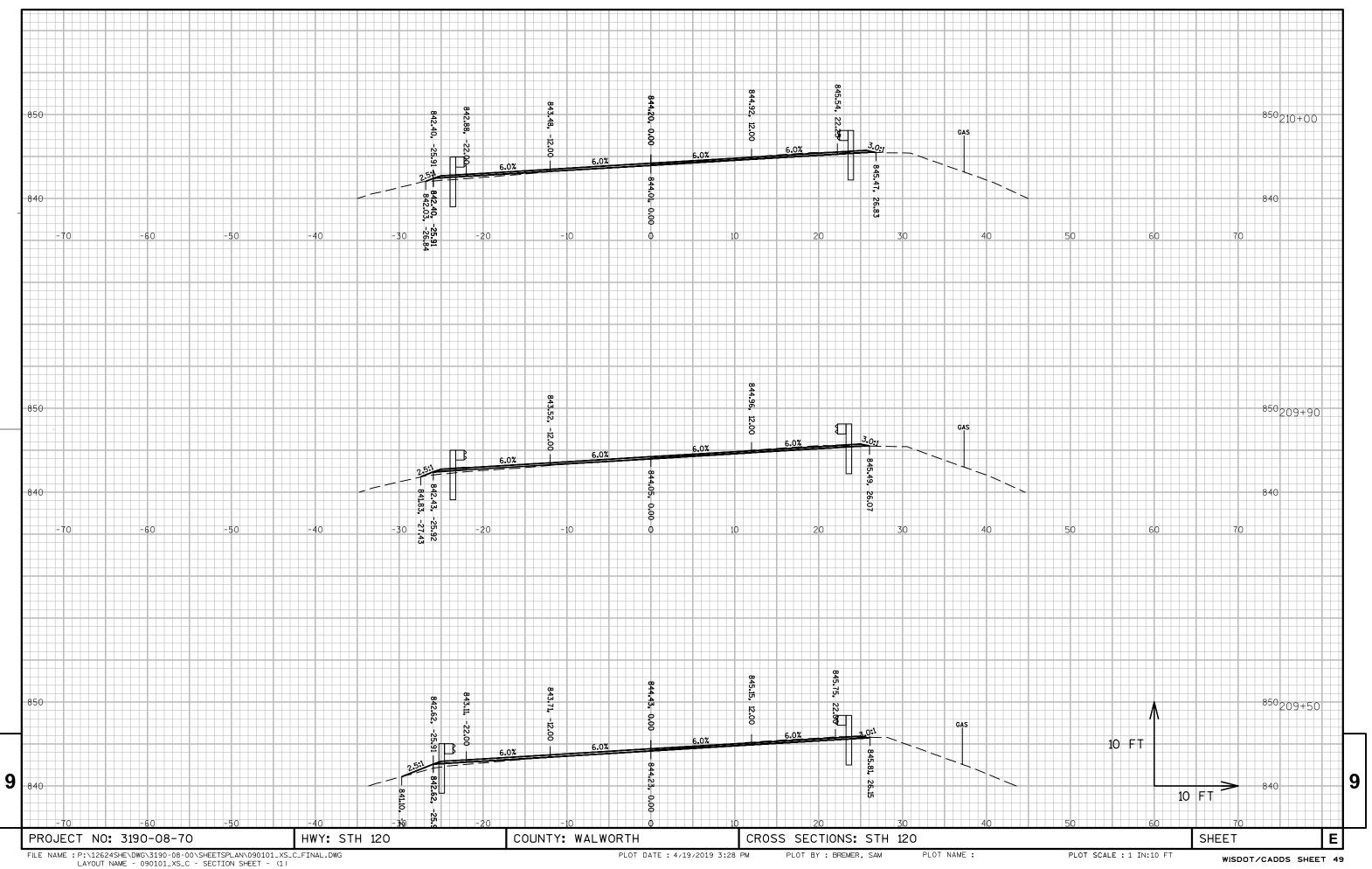


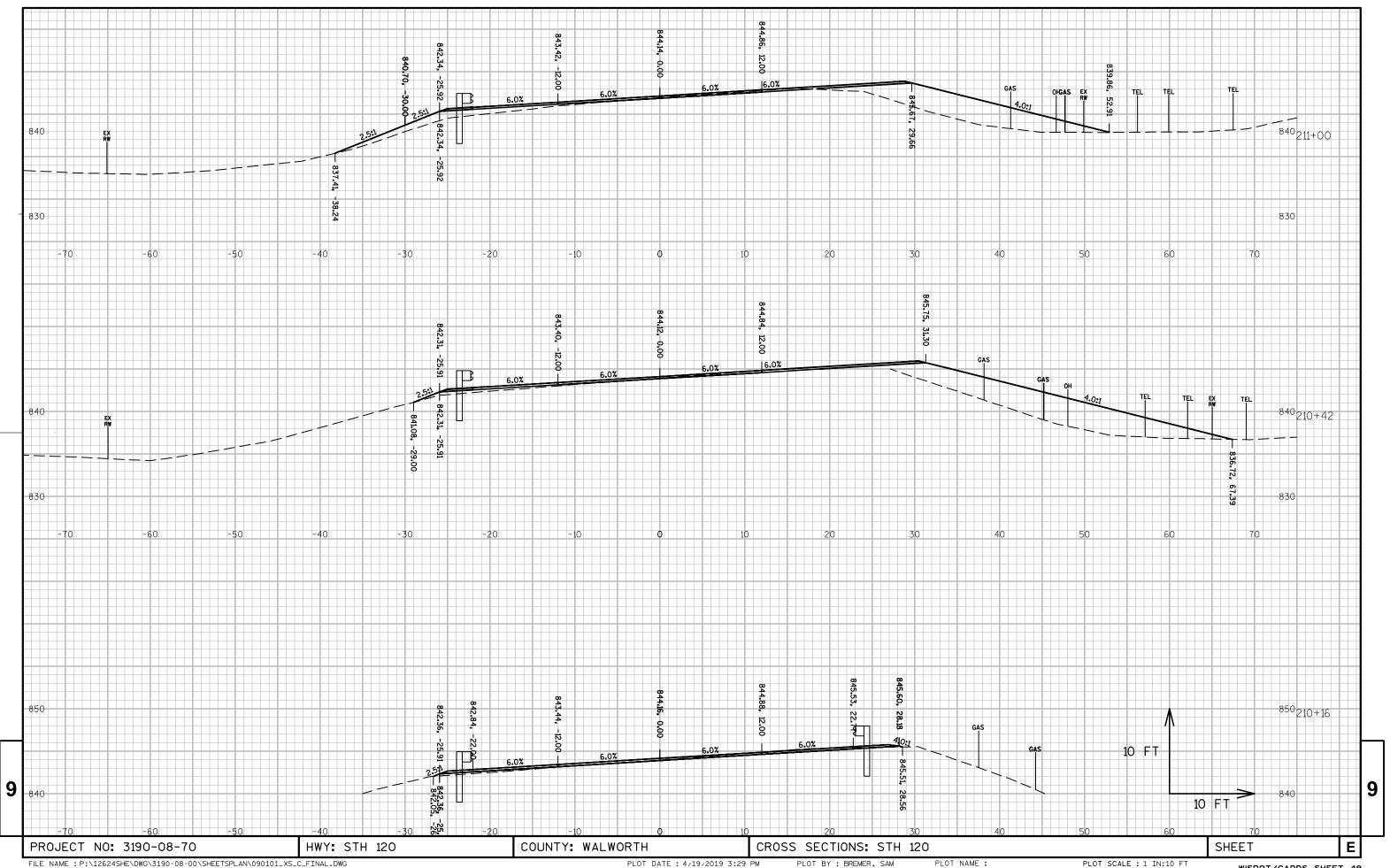


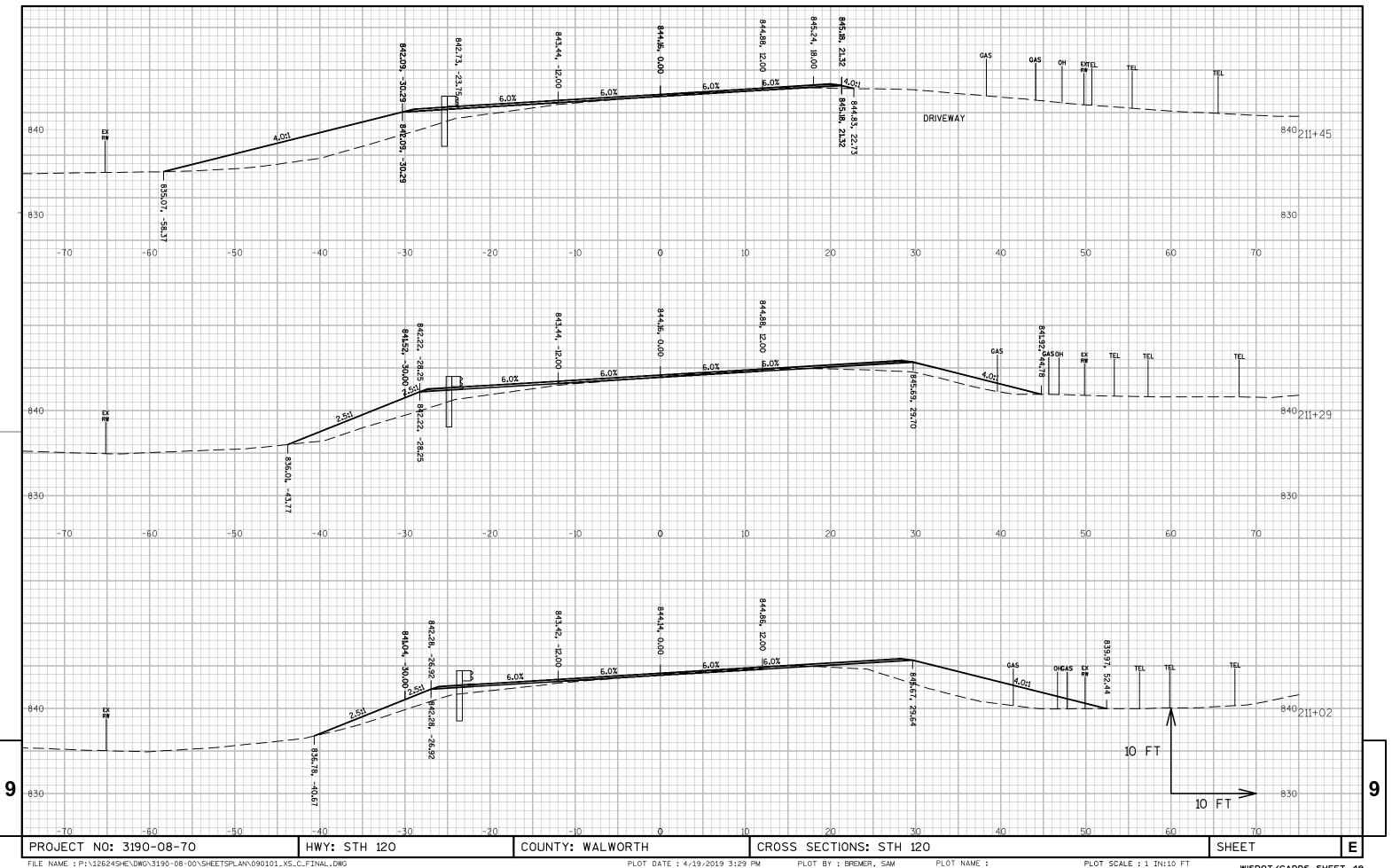


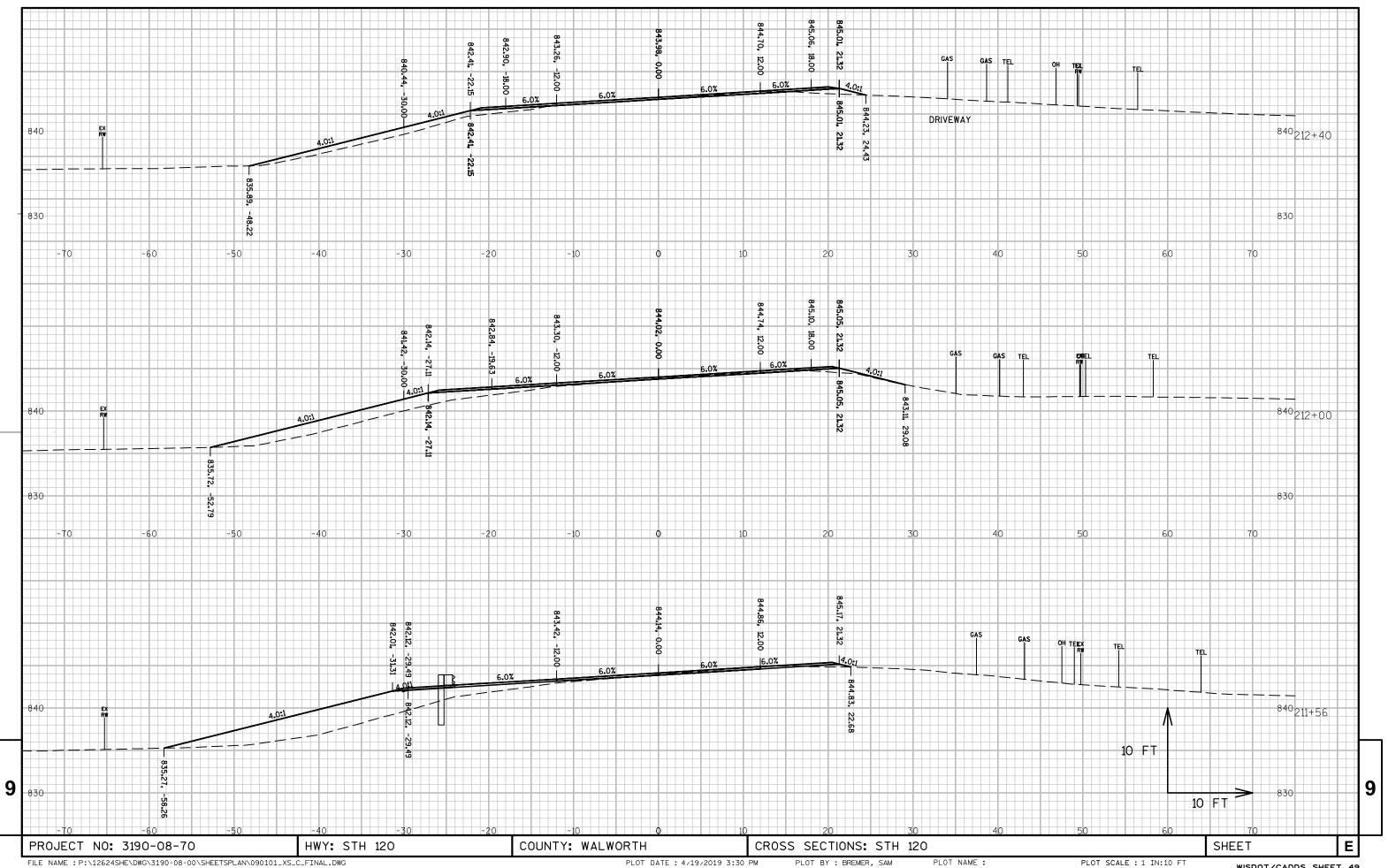
WISDOT/CADDS SHEET 49

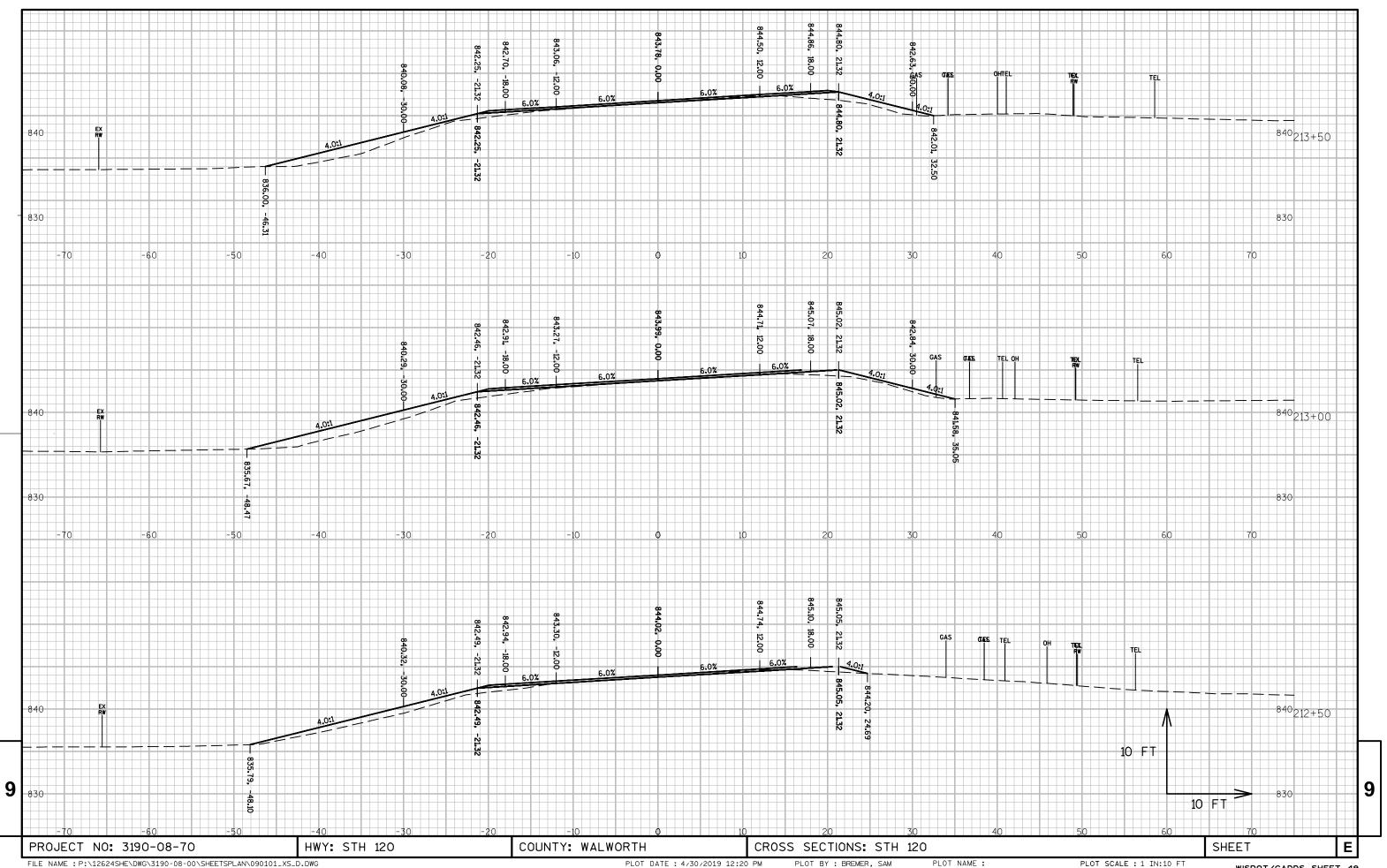


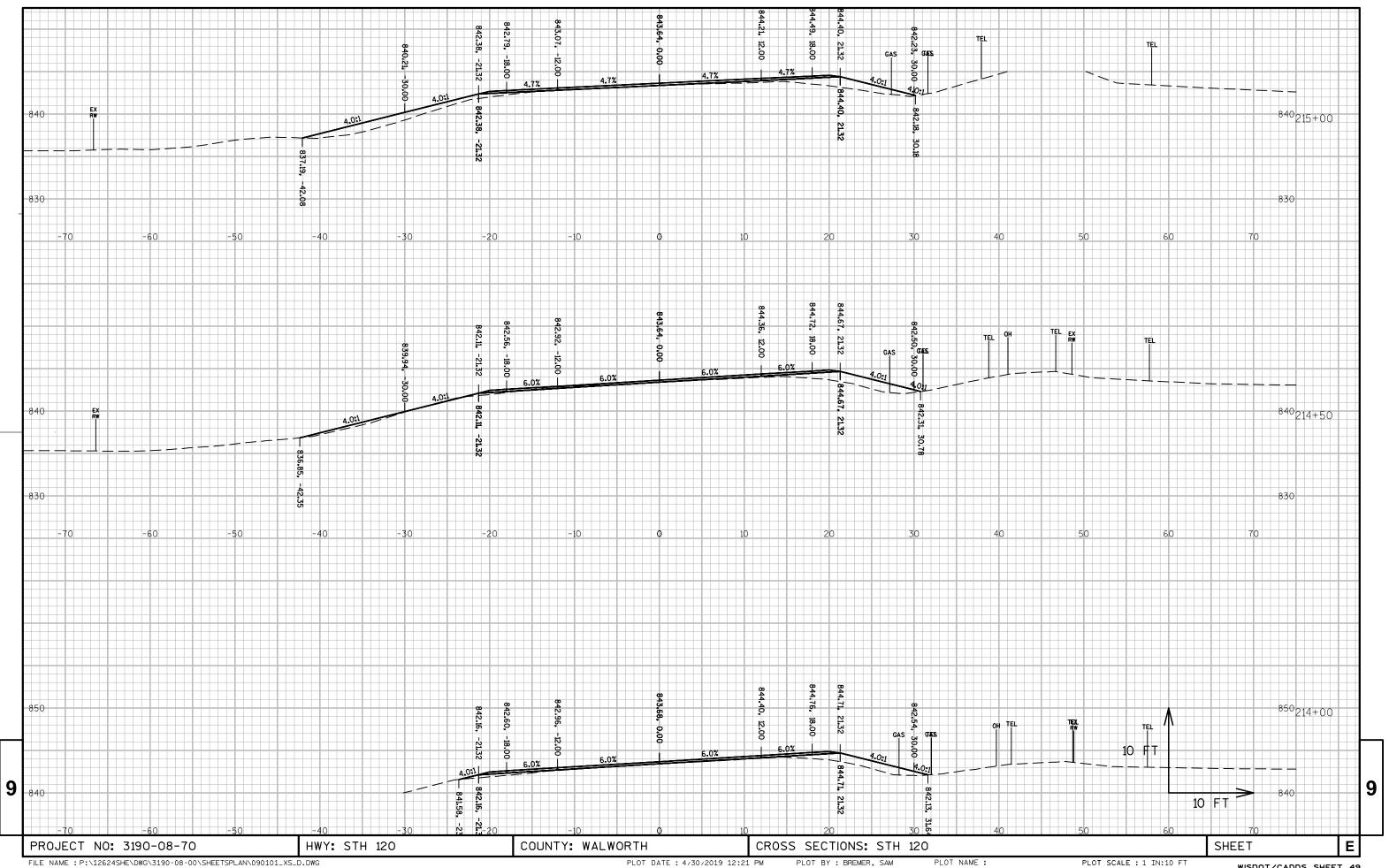


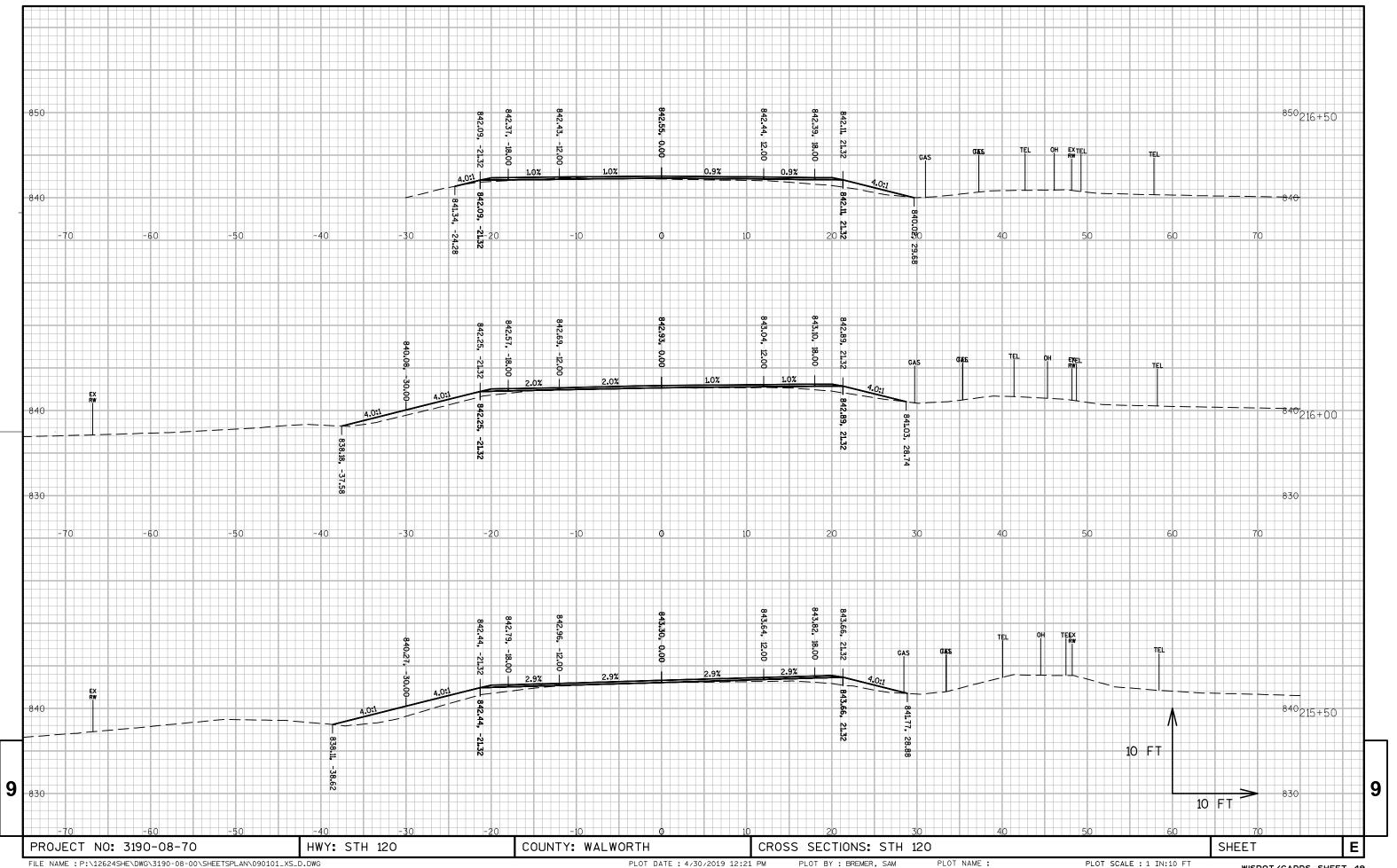










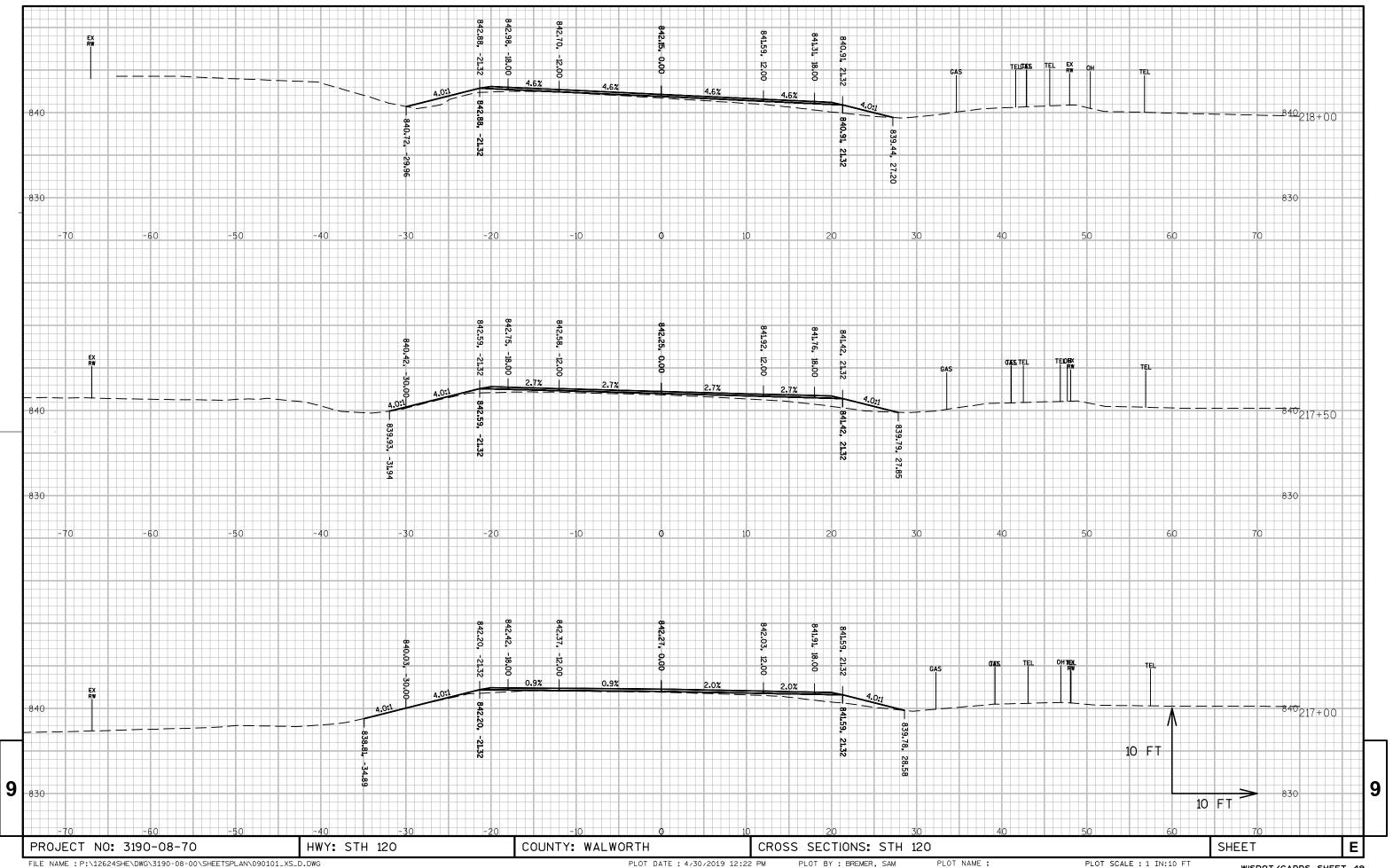


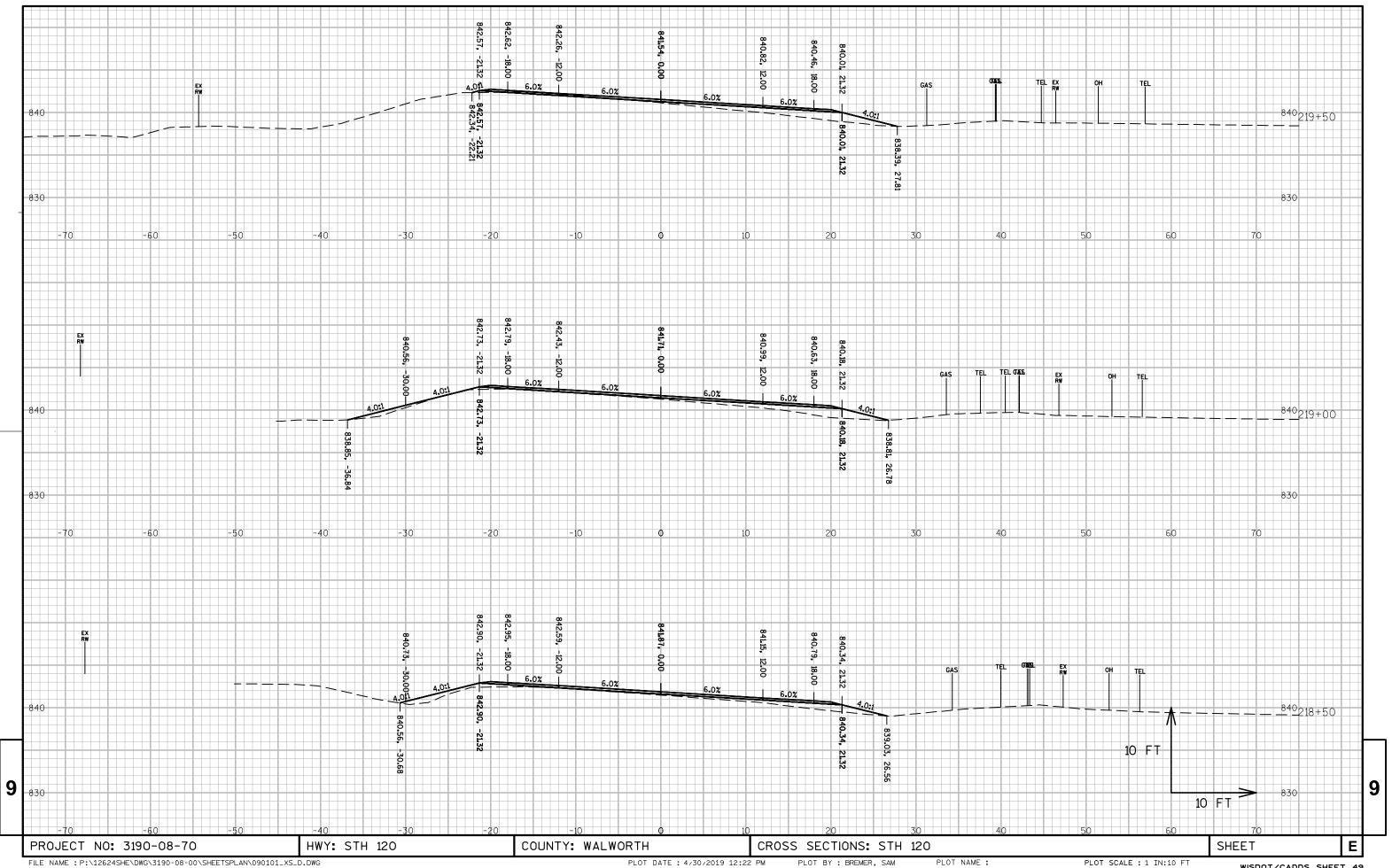
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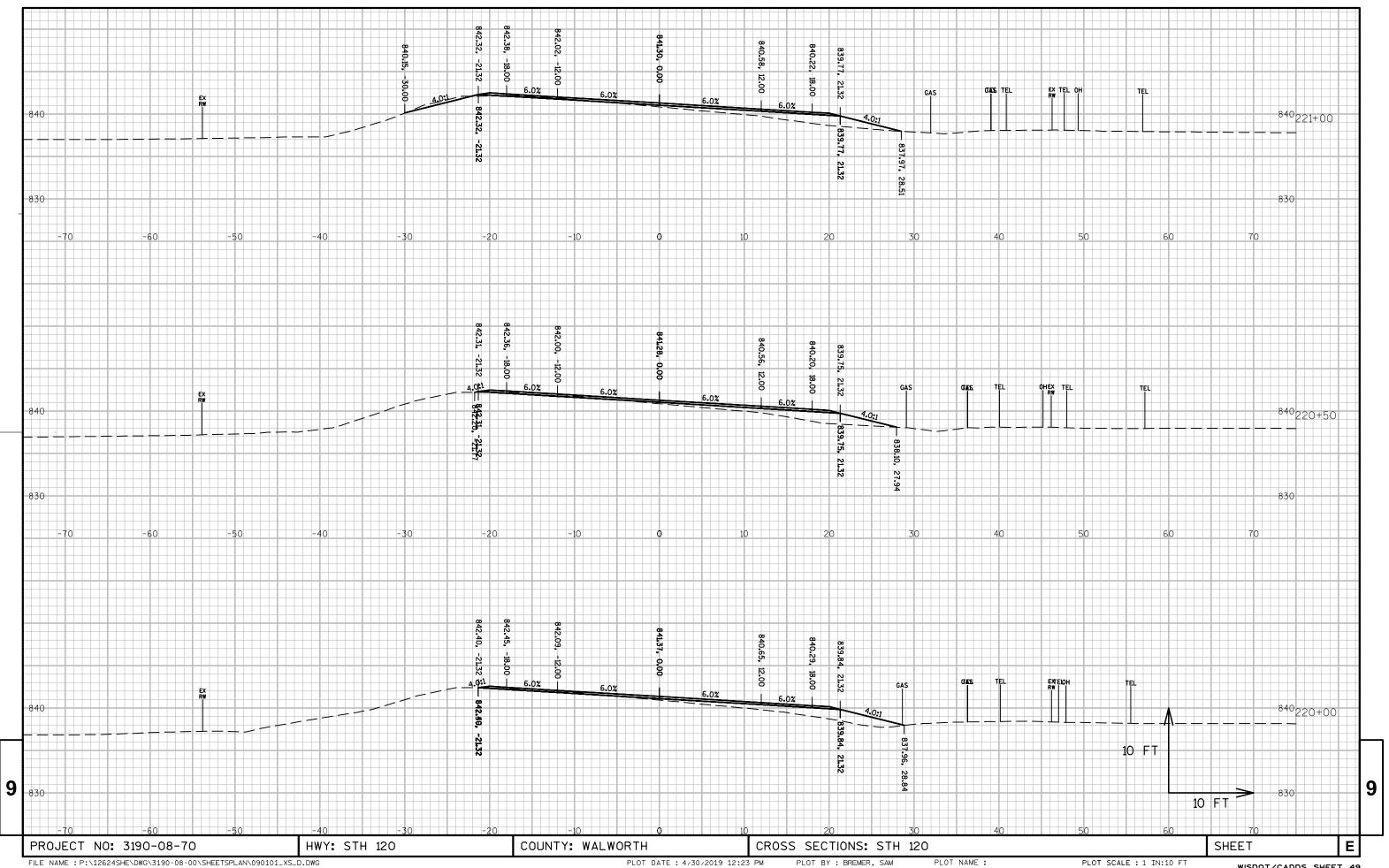
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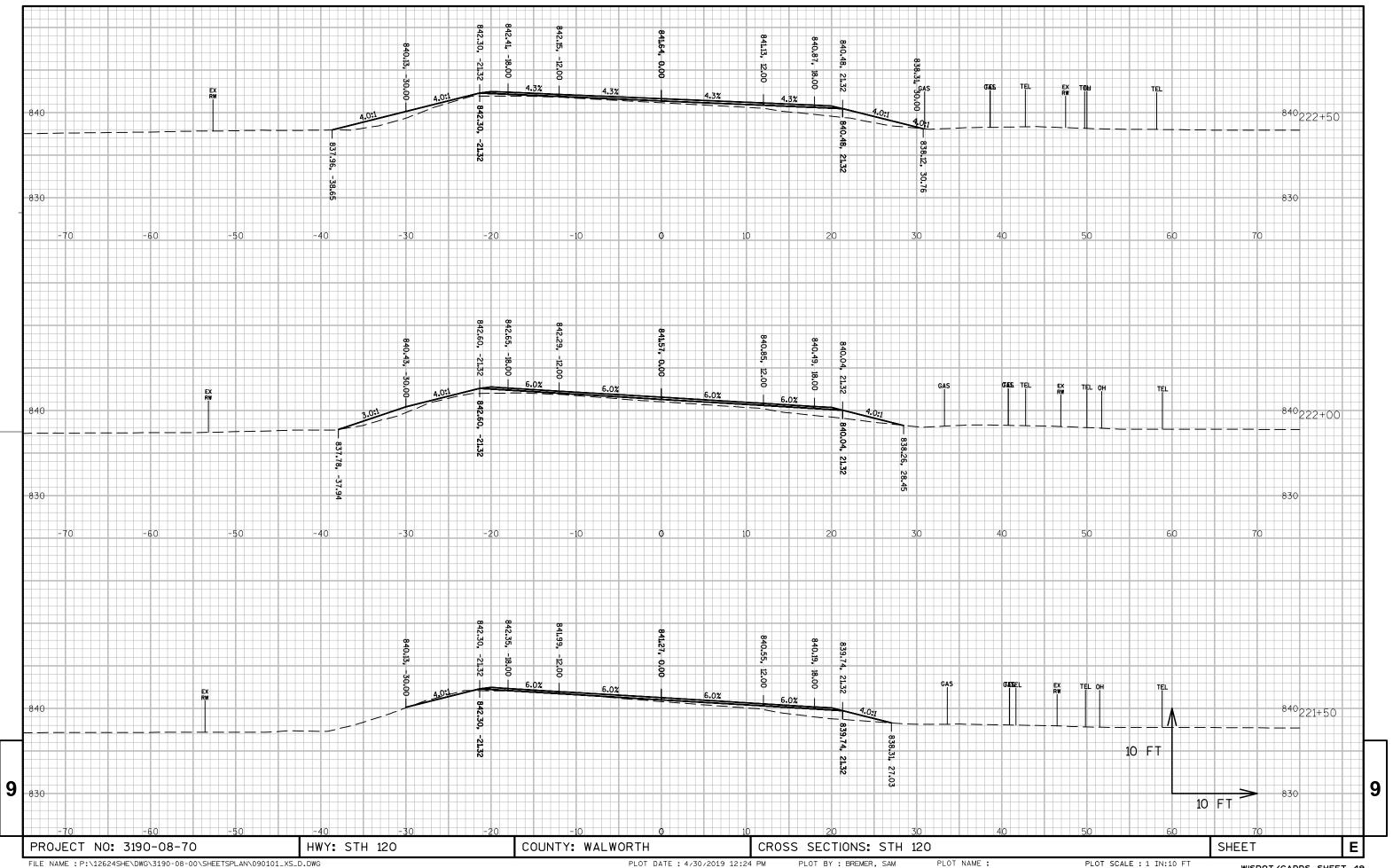
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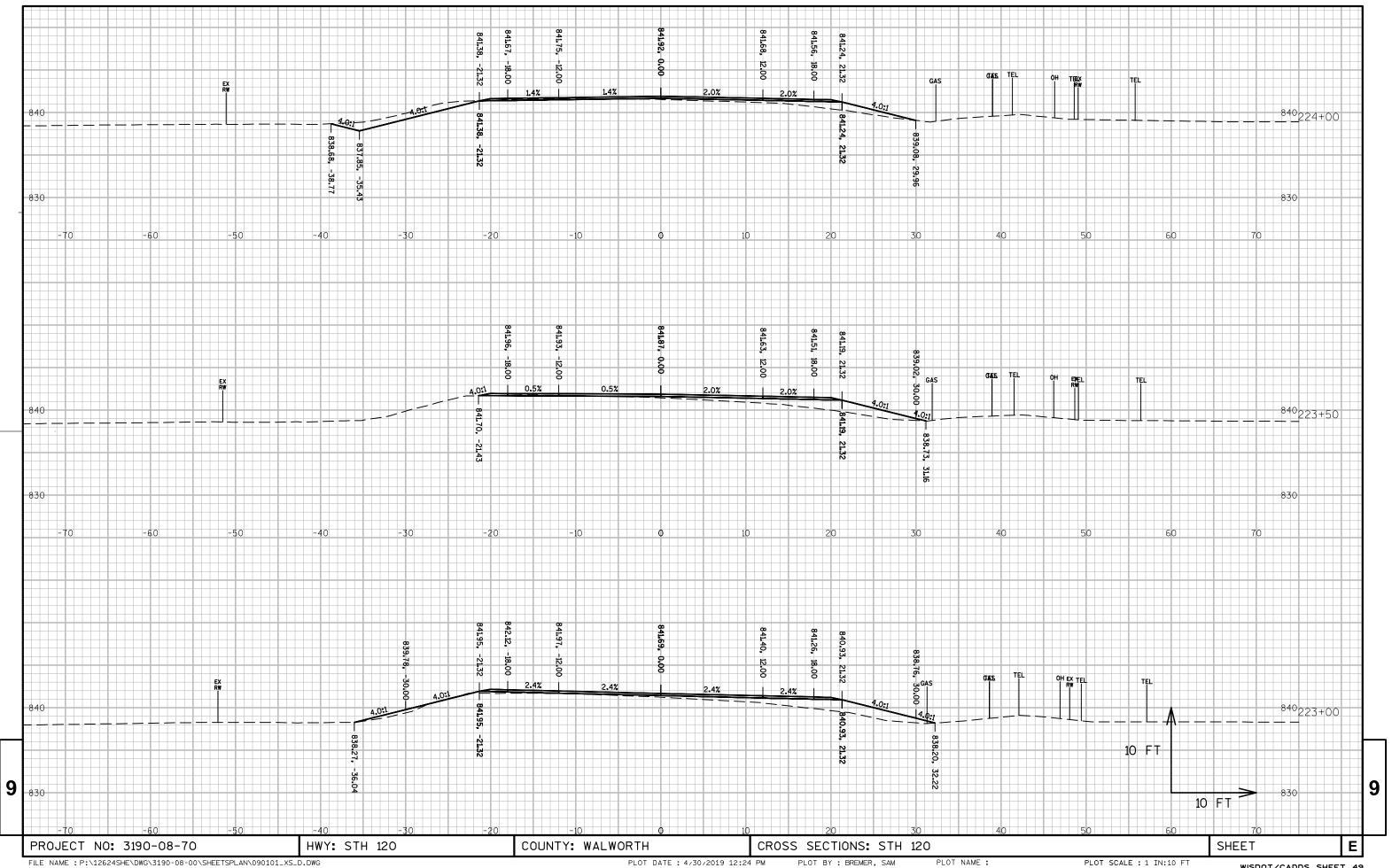
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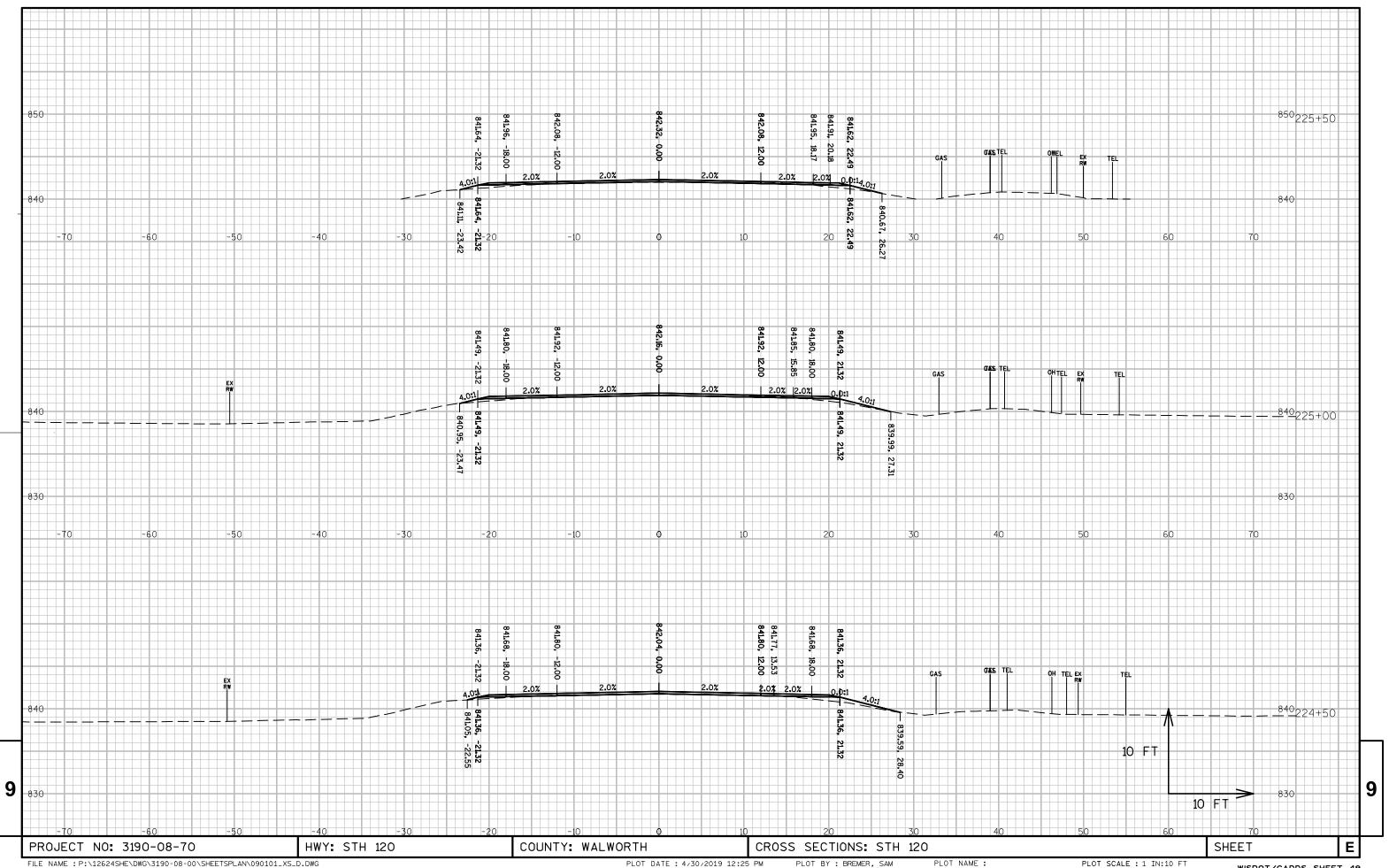


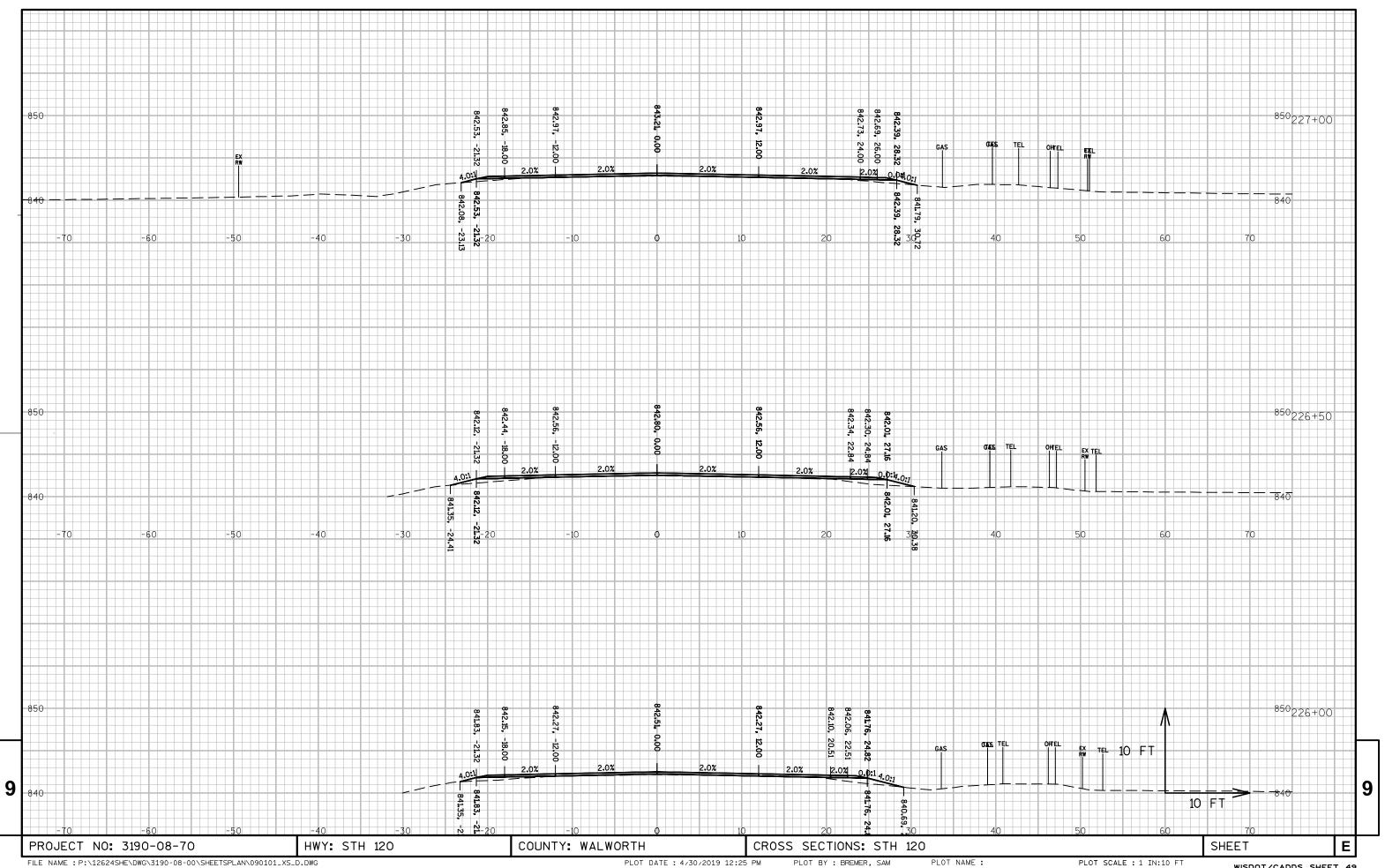


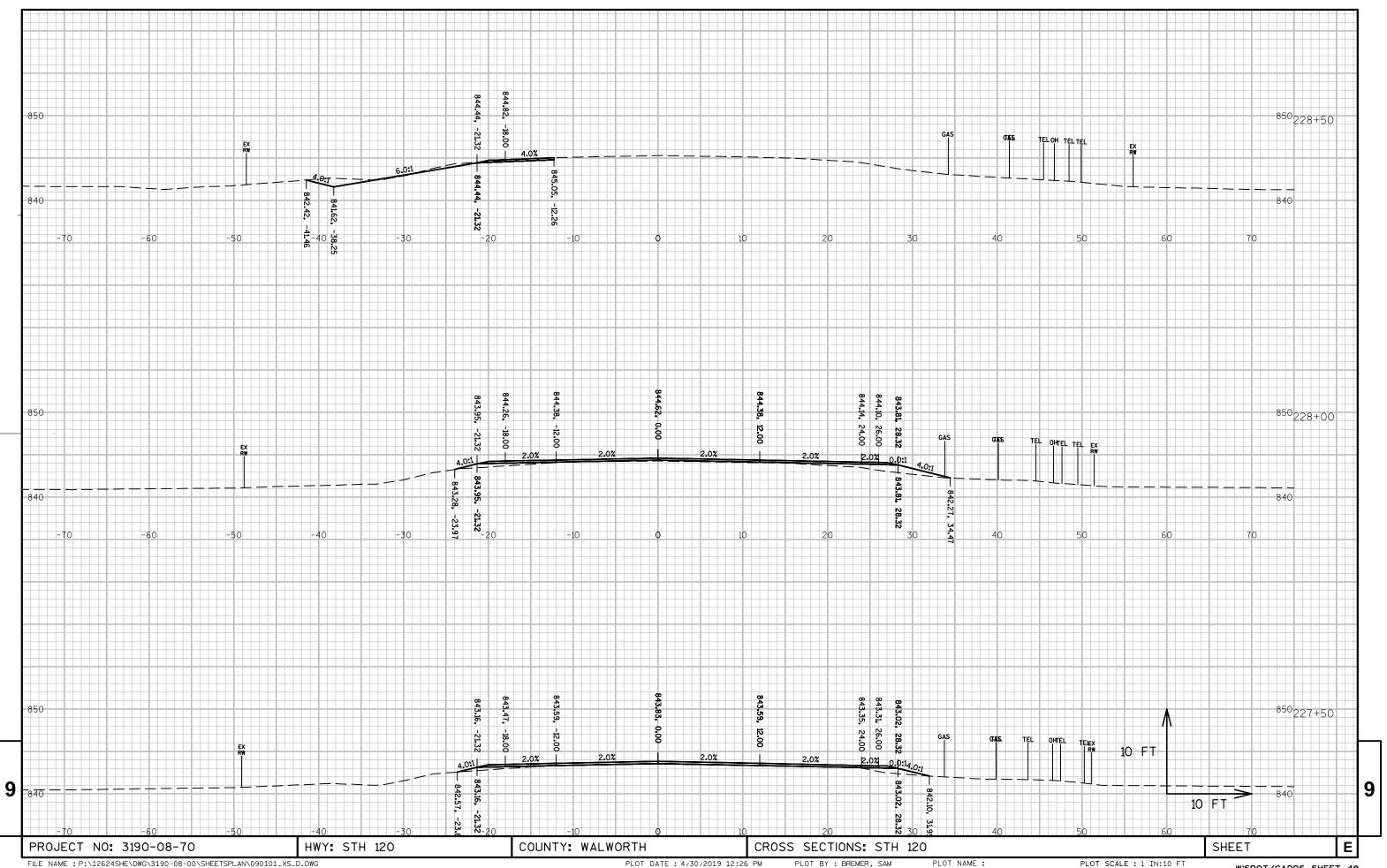


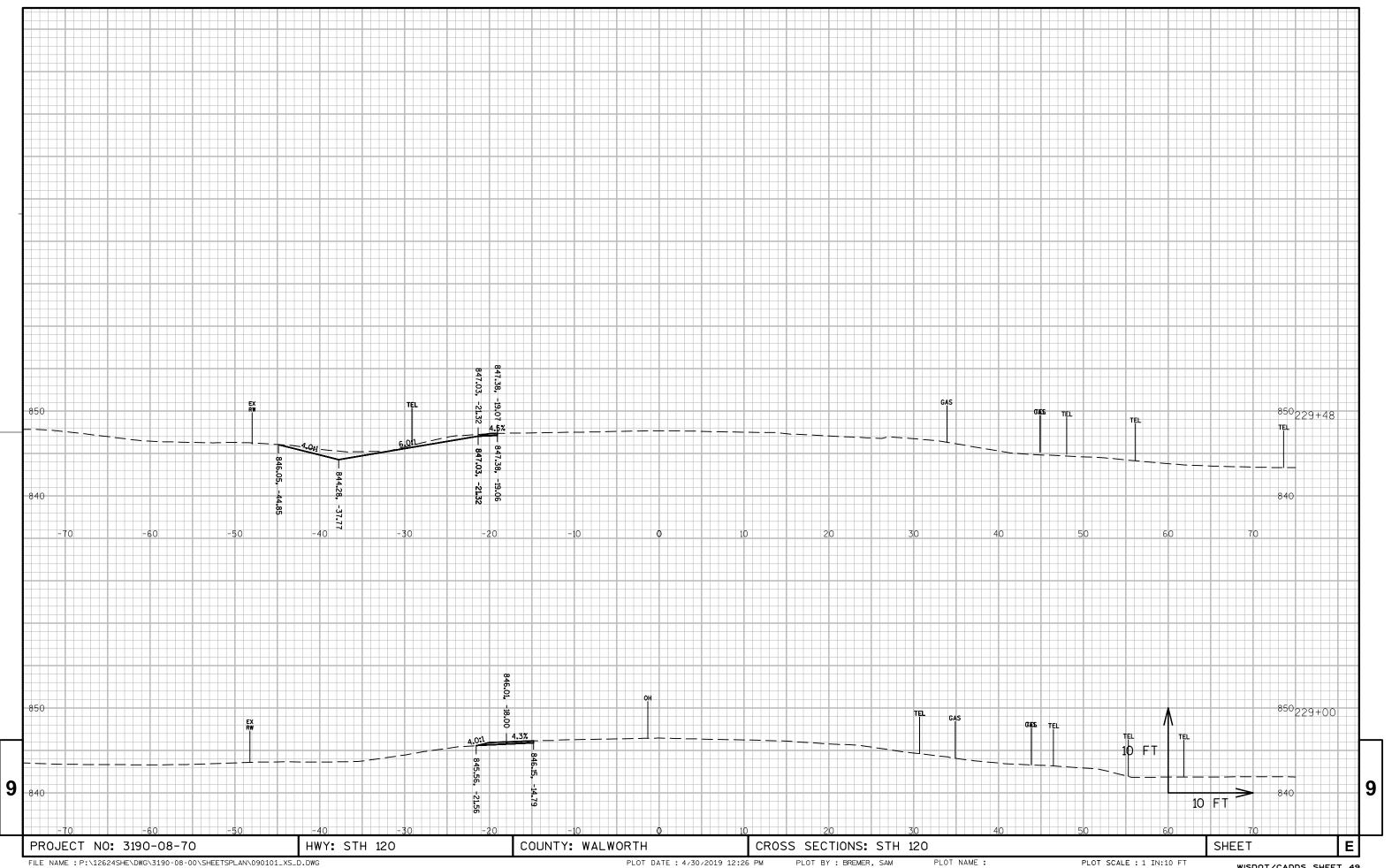


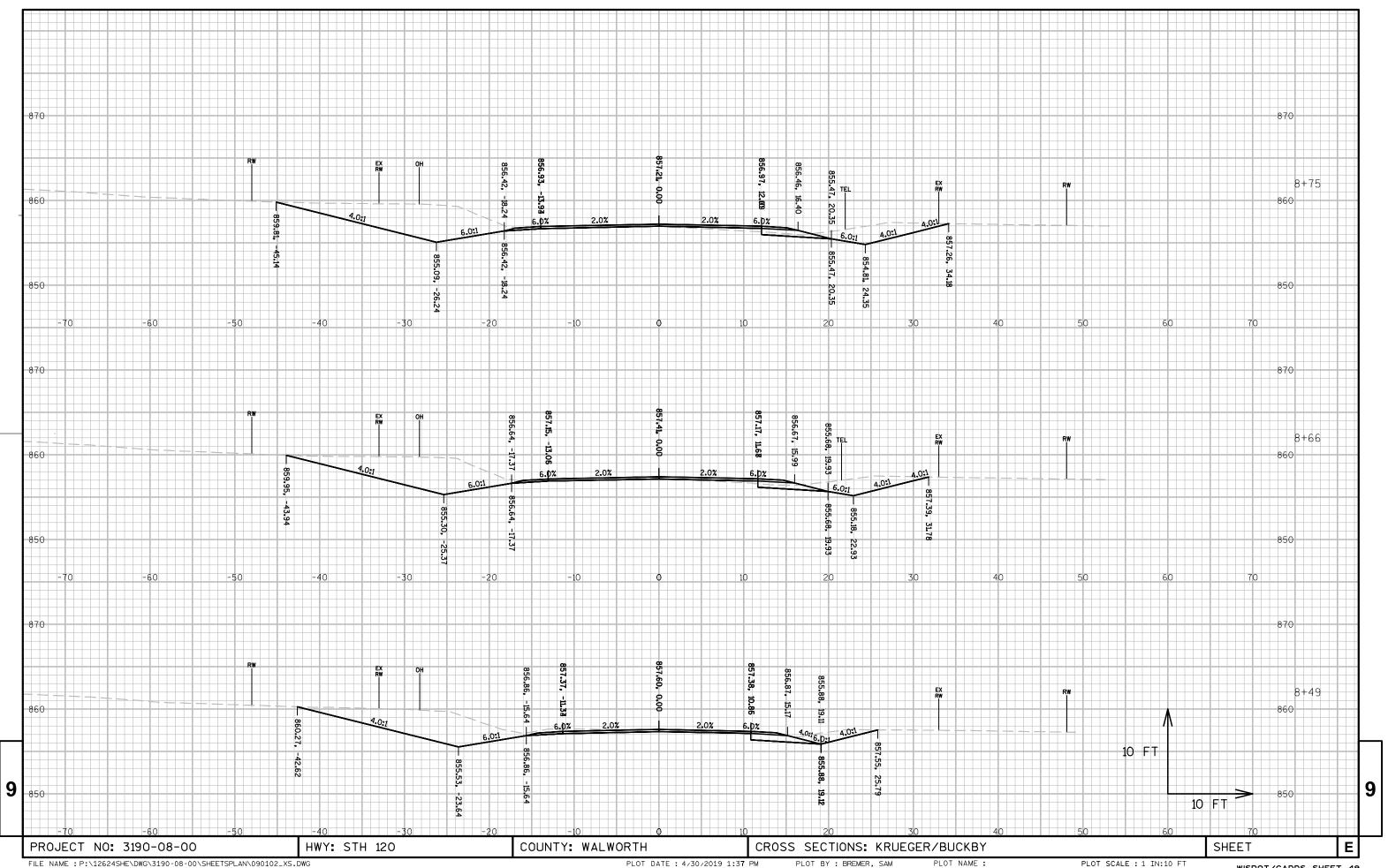


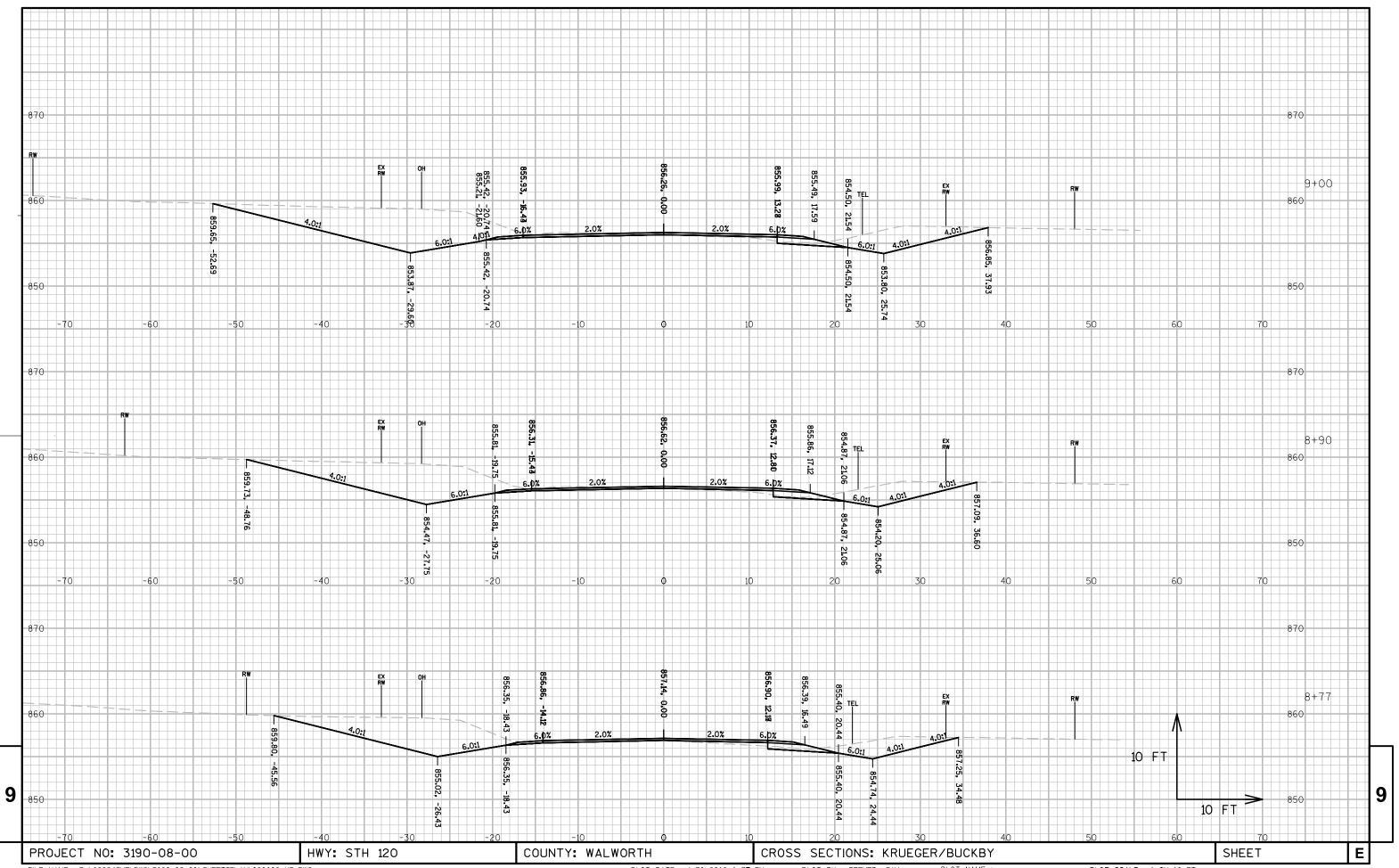


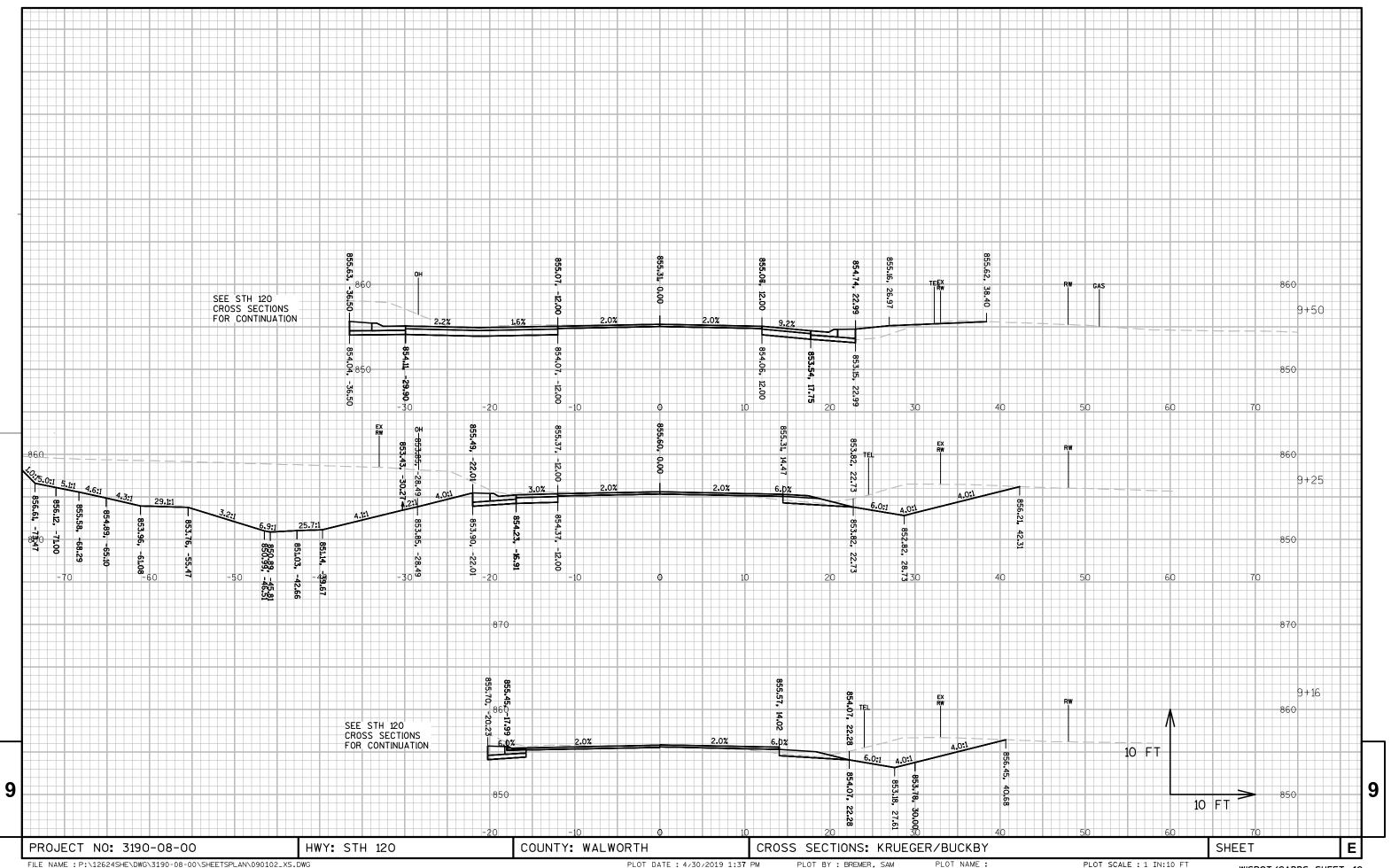


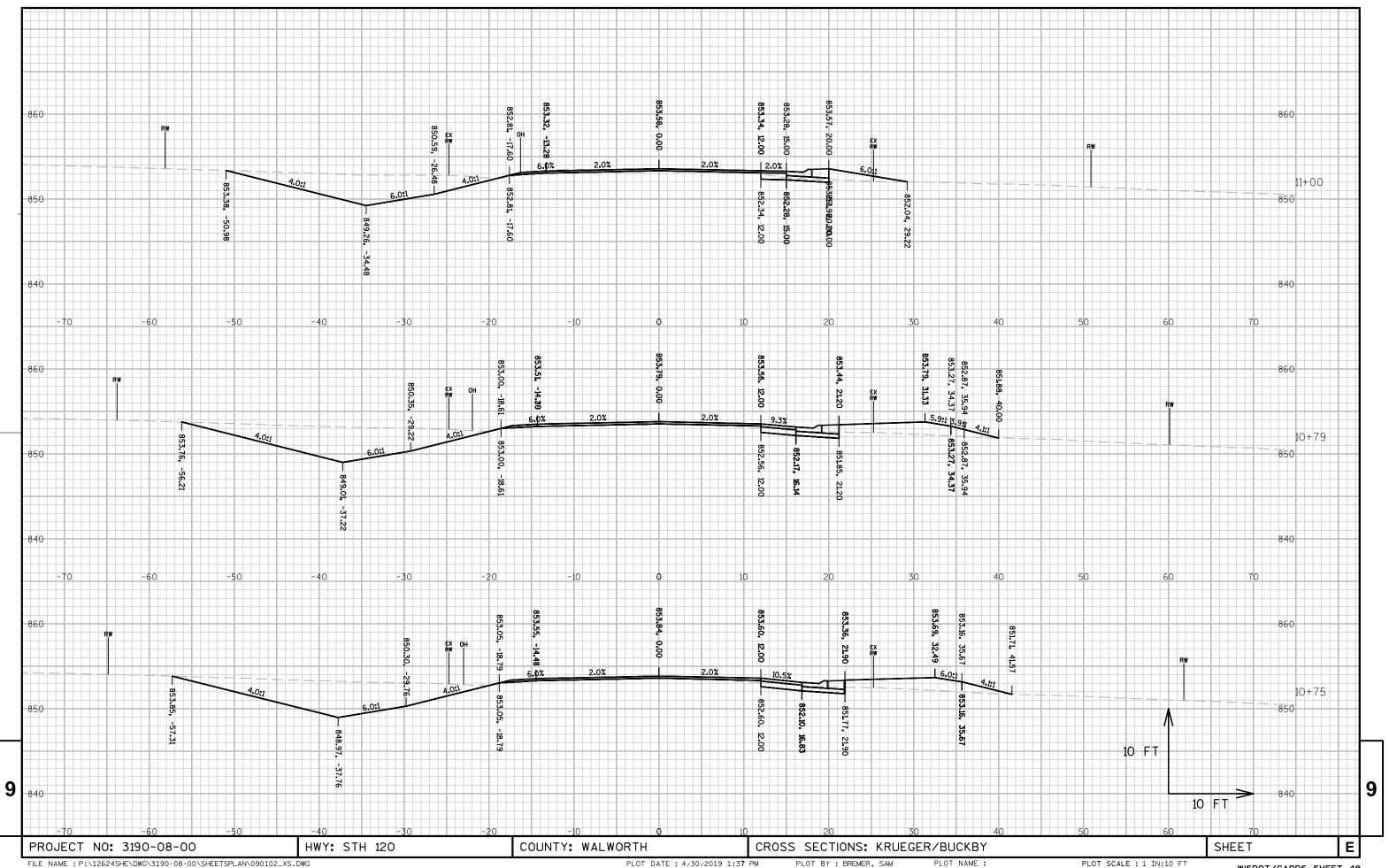


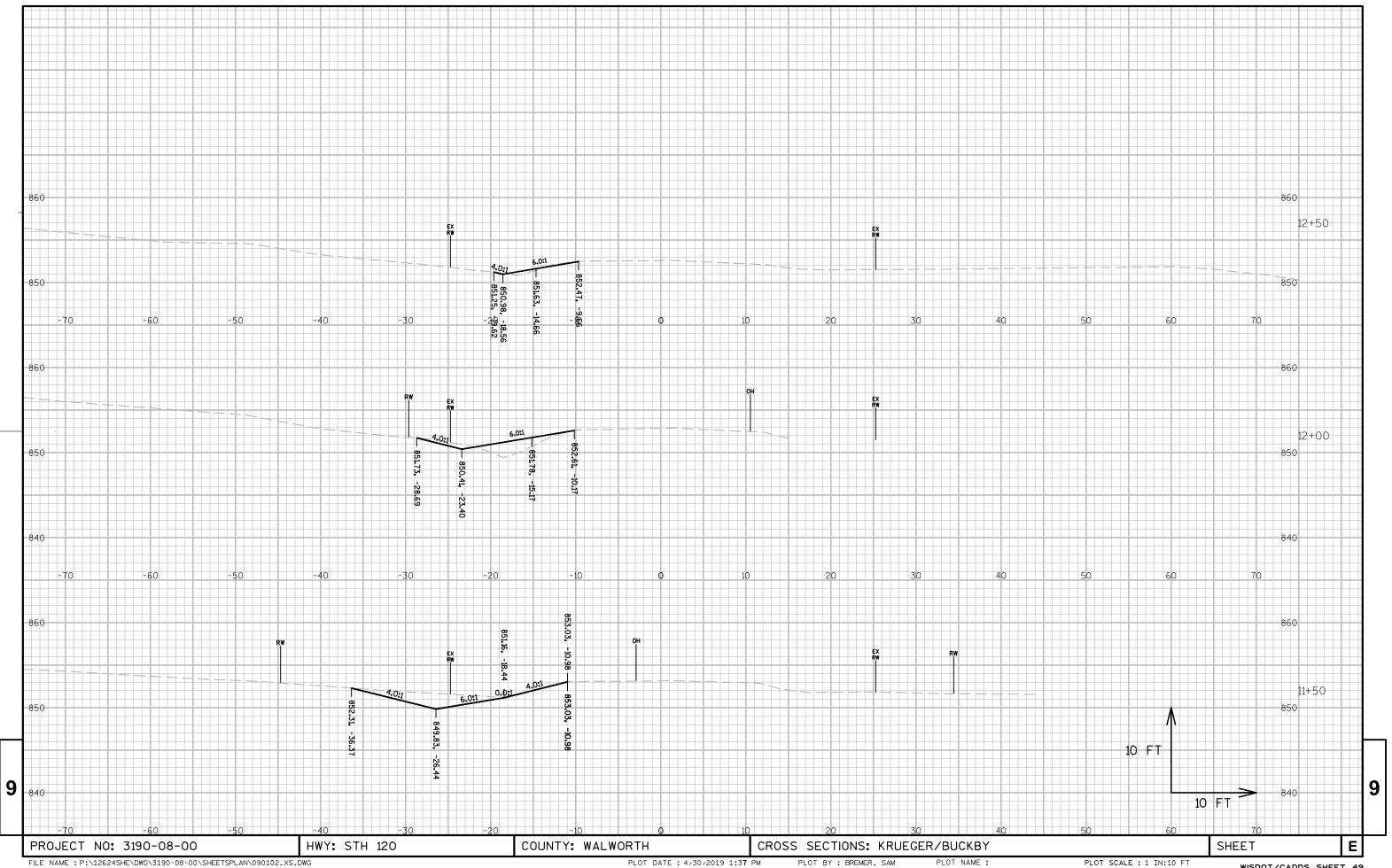


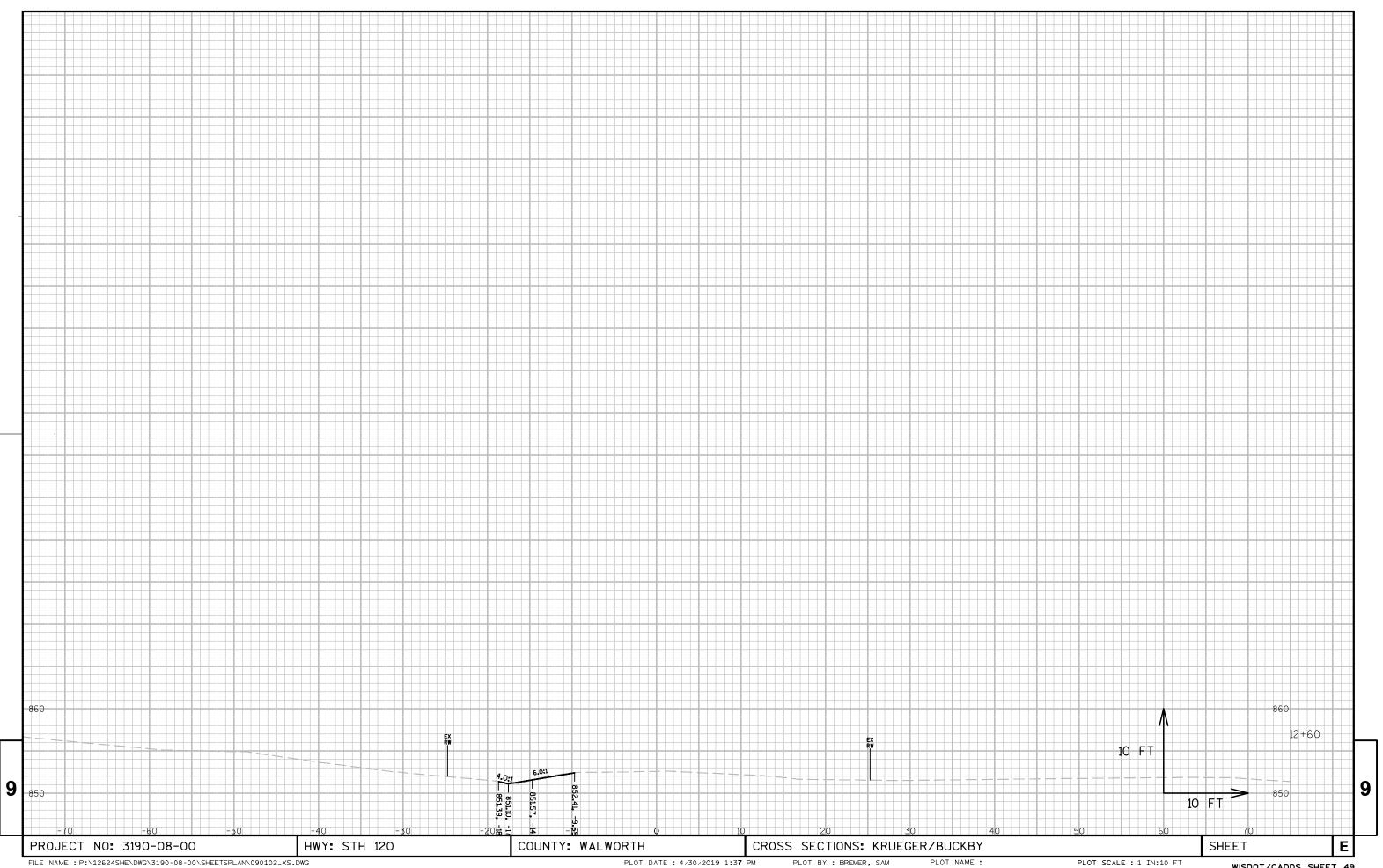


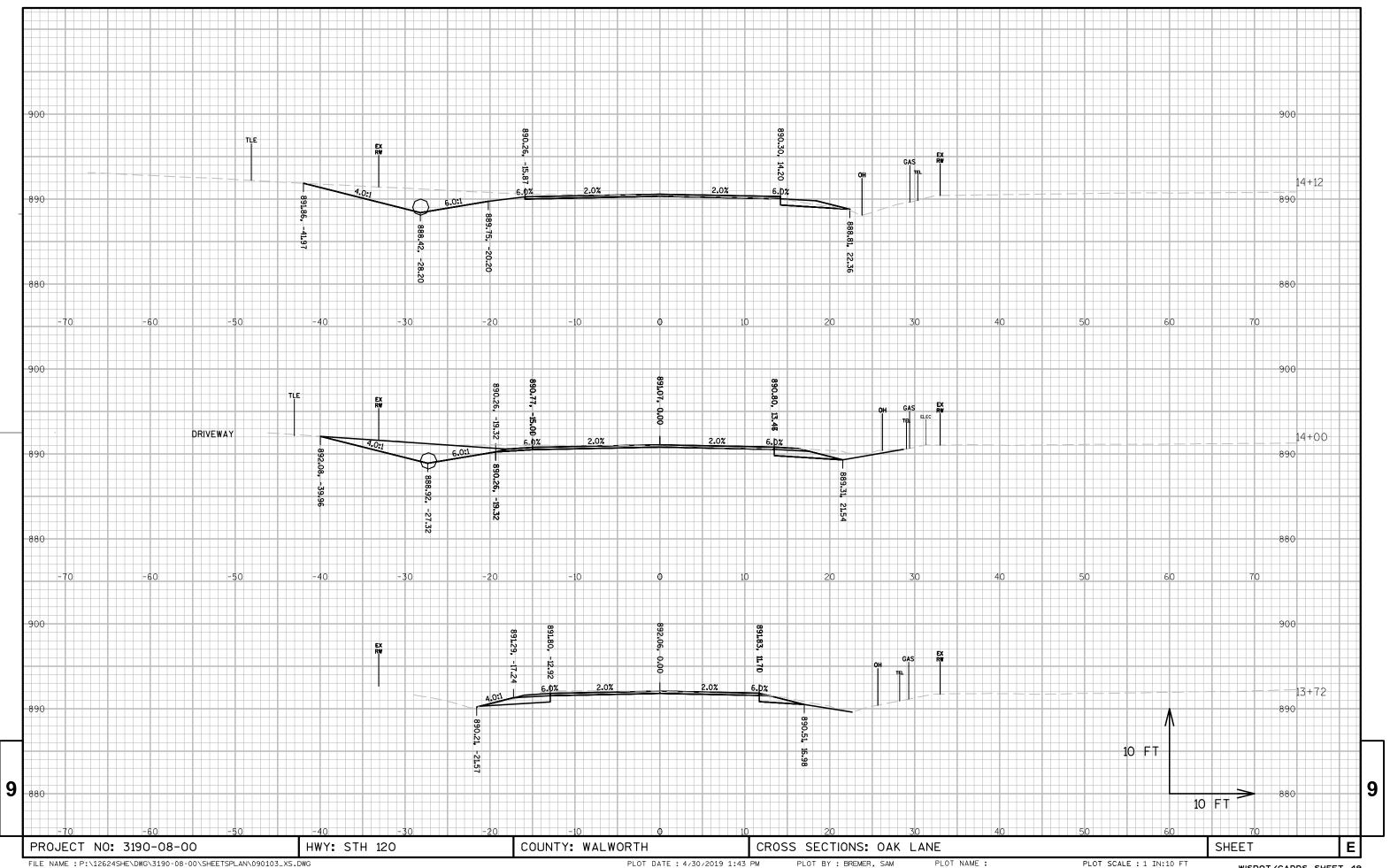


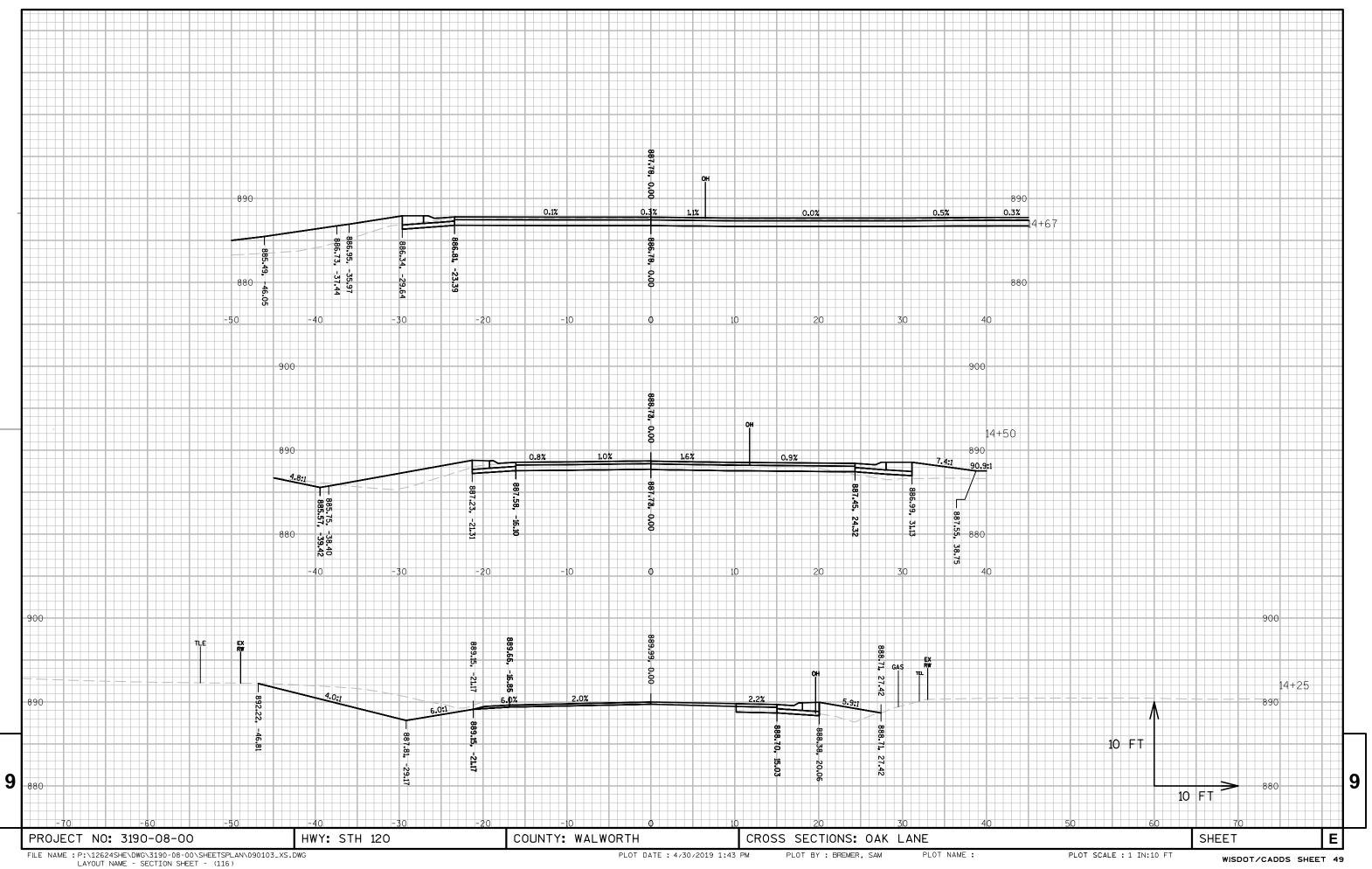












Notes



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